

Table S6: SNPs differentiating low pod number-containing parental accession (ILWC 46) and homozygous bulk (LPNB) of mapping population (Pusa 256 x ILWC 46) from reference *kabuli* accession (CDC Frontier)

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_1_288	NC_021160.1	Ca_kabuli_chr01	288	CC	AA	1946717530
SNP_P4_2_331	NC_021160.1	Ca_kabuli_chr01	331	AA	GG	1946717532
SNP_P4_3_341	NC_021160.1	Ca_kabuli_chr01	341	CC	AA	1946717534
SNP_P4_4_893	NC_021160.1	Ca_kabuli_chr01	893	GG	TT	1946717536
SNP_P4_5_4179	NC_021160.1	Ca_kabuli_chr01	4179	TT	CC	1946717538
SNP_P4_6_4728	NC_021160.1	Ca_kabuli_chr01	4728	TT	GG	1946717540
SNP_P4_7_4786	NC_021160.1	Ca_kabuli_chr01	4786	CC	GG	1946717542
SNP_P4_8_8959	NC_021160.1	Ca_kabuli_chr01	8959	CC	AA	1946717544
SNP_P4_9_8968	NC_021160.1	Ca_kabuli_chr01	8968	GG	AA	1946717546
SNP_P4_10_9338	NC_021160.1	Ca_kabuli_chr01	9338	GG	AA	1946717548
SNP_P4_11_13820	NC_021160.1	Ca_kabuli_chr01	13820	CC	GG	1946717550
SNP_P4_12_14072	NC_021160.1	Ca_kabuli_chr01	14072	TT	CC	1946717552
SNP_P4_13_14155	NC_021160.1	Ca_kabuli_chr01	14155	AA	GG	1946717554
SNP_P4_14_14189	NC_021160.1	Ca_kabuli_chr01	14189	TT	CC	1946717556
SNP_P4_15_14216	NC_021160.1	Ca_kabuli_chr01	14216	CC	AA	1946717558
SNP_P4_16_14973	NC_021160.1	Ca_kabuli_chr01	14973	GG	AA	1946717560
SNP_P4_17_17801	NC_021160.1	Ca_kabuli_chr01	17801	TT	CC	1946717562
SNP_P4_20_18899	NC_021160.1	Ca_kabuli_chr01	18899	CC	TT	1946717564
SNP_P4_21_18902	NC_021160.1	Ca_kabuli_chr01	18902	AA	GG	1946717566
SNP_P4_22_18957	NC_021160.1	Ca_kabuli_chr01	18957	AA	CC	1946717568
SNP_P4_24_19418	NC_021160.1	Ca_kabuli_chr01	19418	GG	AA	1946717570
SNP_P4_25_24714	NC_021160.1	Ca_kabuli_chr01	24714	GG	AA	1946717572
SNP_P4_26_32005	NC_021160.1	Ca_kabuli_chr01	32005	TT	CC	1946717574
SNP_P4_29_85282	NC_021160.1	Ca_kabuli_chr01	85282	GG	AA	1946717576
SNP_P4_31_112224	NC_021160.1	Ca_kabuli_chr01	112224	CC	TT	1946717578
SNP_P4_32_117177	NC_021160.1	Ca_kabuli_chr01	117177	AA	TT	1946717580
SNP_P4_33_117178	NC_021160.1	Ca_kabuli_chr01	117178	GG	TT	1946717582
SNP_P4_34_117506	NC_021160.1	Ca_kabuli_chr01	117506	AA	GG	1946717584
SNP_P4_35_124852	NC_021160.1	Ca_kabuli_chr01	124852	AA	GG	1946717587
SNP_P4_36_125036	NC_021160.1	Ca_kabuli_chr01	125036	AA	GG	1946717589
SNP_P4_37_125312	NC_021160.1	Ca_kabuli_chr01	125312	CC	TT	1946717591
SNP_P4_38_125491	NC_021160.1	Ca_kabuli_chr01	125491	TT	CC	1946717593
SNP_P4_39_150106	NC_021160.1	Ca_kabuli_chr01	150106	CC	TT	1946717595
SNP_P4_40_185546	NC_021160.1	Ca_kabuli_chr01	185546	CC	TT	1946717597
SNP_P4_41_186463	NC_021160.1	Ca_kabuli_chr01	186463	TT	GG	1946717599
SNP_P4_43_186550	NC_021160.1	Ca_kabuli_chr01	186550	GG	AA	1946717602
SNP_P4_44_186564	NC_021160.1	Ca_kabuli_chr01	186564	AA	TT	1946717604
SNP_P4_45_186626	NC_021160.1	Ca_kabuli_chr01	186626	TT	CC	1946717606
SNP_P4_46_186725	NC_021160.1	Ca_kabuli_chr01	186725	GG	TT	1946717608

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_47_186749	NC_021160.1	Ca_kabuli_chr01	186749	GG	AA	1946717610
SNP_P4_48_186788	NC_021160.1	Ca_kabuli_chr01	186788	AA	CC	1946717612
SNP_P4_50_186964	NC_021160.1	Ca_kabuli_chr01	186964	CC	GG	1946717614
SNP_P4_51_186979	NC_021160.1	Ca_kabuli_chr01	186979	CC	TT	1946717616
SNP_P4_52_194511	NC_021160.1	Ca_kabuli_chr01	194511	CC	TT	1946717618
SNP_P4_53_194590	NC_021160.1	Ca_kabuli_chr01	194590	AA	TT	1946717620
SNP_P4_54_194625	NC_021160.1	Ca_kabuli_chr01	194625	TT	AA	1946717622
SNP_P4_55_201924	NC_021160.1	Ca_kabuli_chr01	201924	CC	AA	1946717624
SNP_P4_56_225609	NC_021160.1	Ca_kabuli_chr01	225609	AA	TT	1946717626
SNP_P4_58_242677	NC_021160.1	Ca_kabuli_chr01	242677	TT	AA	1946717628
SNP_P4_59_249828	NC_021160.1	Ca_kabuli_chr01	249828	CC	TT	1946717630
SNP_P4_61_265045	NC_021160.1	Ca_kabuli_chr01	265045	GG	AA	1946717632
SNP_P4_62_281255	NC_021160.1	Ca_kabuli_chr01	281255	GG	AA	1946717634
SNP_P4_63_281389	NC_021160.1	Ca_kabuli_chr01	281389	CC	AA	1946717636
SNP_P4_64_291985	NC_021160.1	Ca_kabuli_chr01	291985	CC	TT	1946717638
SNP_P4_65_308419	NC_021160.1	Ca_kabuli_chr01	308419	TT	GG	1946717640
SNP_P4_66_308422	NC_021160.1	Ca_kabuli_chr01	308422	AA	TT	1946717642
SNP_P4_67_308455	NC_021160.1	Ca_kabuli_chr01	308455	CC	AA	1946717644
SNP_P4_68_333937	NC_021160.1	Ca_kabuli_chr01	333937	AA	GG	1946717646
SNP_P4_69_337059	NC_021160.1	Ca_kabuli_chr01	337059	CC	TT	1946717648
SNP_P4_70_337978	NC_021160.1	Ca_kabuli_chr01	337978	TT	GG	1946717650
SNP_P4_71_338206	NC_021160.1	Ca_kabuli_chr01	338206	GG	AA	1946717652
SNP_P4_72_338694	NC_021160.1	Ca_kabuli_chr01	338694	AA	TT	1946717654
SNP_P4_73_338707	NC_021160.1	Ca_kabuli_chr01	338707	CC	AA	1946717656
SNP_P4_74_338735	NC_021160.1	Ca_kabuli_chr01	338735	AA	TT	1946717658
SNP_P4_75_338739	NC_021160.1	Ca_kabuli_chr01	338739	TT	AA	1946717660
SNP_P4_77_338960	NC_021160.1	Ca_kabuli_chr01	338960	AA	CC	1946717662
SNP_P4_78_340257	NC_021160.1	Ca_kabuli_chr01	340257	AA	GG	1946717664
SNP_P4_79_340410	NC_021160.1	Ca_kabuli_chr01	340410	GG	AA	1946717666
SNP_P4_80_340436	NC_021160.1	Ca_kabuli_chr01	340436	AA	GG	1946717668
SNP_P4_81_341433	NC_021160.1	Ca_kabuli_chr01	341433	GG	AA	1946717670
SNP_P4_82_343222	NC_021160.1	Ca_kabuli_chr01	343222	TT	GG	1946717672
SNP_P4_83_343268	NC_021160.1	Ca_kabuli_chr01	343268	TT	AA	1946717674
SNP_P4_84_343401	NC_021160.1	Ca_kabuli_chr01	343401	GG	AA	1946717676
SNP_P4_86_345393	NC_021160.1	Ca_kabuli_chr01	345393	CC	GG	1946717678
SNP_P4_87_345433	NC_021160.1	Ca_kabuli_chr01	345433	AA	GG	1946717680
SNP_P4_89_346827	NC_021160.1	Ca_kabuli_chr01	346827	AA	TT	1946717682
SNP_P4_90_346893	NC_021160.1	Ca_kabuli_chr01	346893	GG	AA	1946717685
SNP_P4_92_350384	NC_021160.1	Ca_kabuli_chr01	350384	TT	CC	1946717687
SNP_P4_93_350494	NC_021160.1	Ca_kabuli_chr01	350494	AA	GG	1946717689
SNP_P4_94_350547	NC_021160.1	Ca_kabuli_chr01	350547	TT	GG	1946717691
SNP_P4_95_351632	NC_021160.1	Ca_kabuli_chr01	351632	GG	AA	1946717692

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_96_353155	NC_021160.1	Ca_kabuli_chr01	353155	AA	TT	1946717694
SNP_P4_97_353172	NC_021160.1	Ca_kabuli_chr01	353172	TT	AA	1946717696
SNP_P4_98_353185	NC_021160.1	Ca_kabuli_chr01	353185	TT	GG	1946717698
SNP_P4_99_353416	NC_021160.1	Ca_kabuli_chr01	353416	AA	CC	1946717700
SNP_P4_100_354813	NC_021160.1	Ca_kabuli_chr01	354813	TT	GG	1946717702
SNP_P4_101_355537	NC_021160.1	Ca_kabuli_chr01	355537	AA	GG	1946717705
SNP_P4_103_355829	NC_021160.1	Ca_kabuli_chr01	355829	AA	GG	1946717707
SNP_P4_105_355915	NC_021160.1	Ca_kabuli_chr01	355915	TT	CC	1946717709
SNP_P4_106_358741	NC_021160.1	Ca_kabuli_chr01	358741	GG	AA	1946717711
SNP_P4_107_358914	NC_021160.1	Ca_kabuli_chr01	358914	CC	TT	1946717713
SNP_P4_108_361037	NC_021160.1	Ca_kabuli_chr01	361037	CC	GG	1946717715
SNP_P4_109_361496	NC_021160.1	Ca_kabuli_chr01	361496	GG	CC	1946717717
SNP_P4_110_361711	NC_021160.1	Ca_kabuli_chr01	361711	AA	GG	1946717719
SNP_P4_111_362134	NC_021160.1	Ca_kabuli_chr01	362134	CC	GG	1946717721
SNP_P4_112_362179	NC_021160.1	Ca_kabuli_chr01	362179	TT	CC	1946717723
SNP_P4_113_362204	NC_021160.1	Ca_kabuli_chr01	362204	GG	AA	1946717725
SNP_P4_114_362213	NC_021160.1	Ca_kabuli_chr01	362213	TT	GG	1946717727
SNP_P4_115_362224	NC_021160.1	Ca_kabuli_chr01	362224	CC	TT	1946717729
SNP_P4_116_362402	NC_021160.1	Ca_kabuli_chr01	362402	AA	GG	1946717731
SNP_P4_117_362444	NC_021160.1	Ca_kabuli_chr01	362444	CC	TT	1946717733
SNP_P4_118_362448	NC_021160.1	Ca_kabuli_chr01	362448	GG	AA	1946717735
SNP_P4_119_362449	NC_021160.1	Ca_kabuli_chr01	362449	GG	AA	1946717737
SNP_P4_120_362542	NC_021160.1	Ca_kabuli_chr01	362542	AA	GG	1946717739
SNP_P4_121_362570	NC_021160.1	Ca_kabuli_chr01	362570	CC	TT	1946717741
SNP_P4_122_362709	NC_021160.1	Ca_kabuli_chr01	362709	GG	AA	1946717743
SNP_P4_123_362902	NC_021160.1	Ca_kabuli_chr01	362902	GG	AA	1946717745
SNP_P4_124_362963	NC_021160.1	Ca_kabuli_chr01	362963	CC	TT	1946717747
SNP_P4_125_363094	NC_021160.1	Ca_kabuli_chr01	363094	GG	AA	1946717750
SNP_P4_126_363176	NC_021160.1	Ca_kabuli_chr01	363176	CC	TT	1946717752
SNP_P4_127_363192	NC_021160.1	Ca_kabuli_chr01	363192	TT	CC	1946717754
SNP_P4_128_363201	NC_021160.1	Ca_kabuli_chr01	363201	GG	AA	1946717756
SNP_P4_129_363402	NC_021160.1	Ca_kabuli_chr01	363402	TT	CC	1946717758
SNP_P4_130_363425	NC_021160.1	Ca_kabuli_chr01	363425	GG	TT	1946717760
SNP_P4_131_363450	NC_021160.1	Ca_kabuli_chr01	363450	GG	AA	1946717762
SNP_P4_132_363624	NC_021160.1	Ca_kabuli_chr01	363624	AA	GG	1946717764
SNP_P4_133_363648	NC_021160.1	Ca_kabuli_chr01	363648	CC	TT	1946717766
SNP_P4_134_363704	NC_021160.1	Ca_kabuli_chr01	363704	TT	AA	1946717768
SNP_P4_135_363717	NC_021160.1	Ca_kabuli_chr01	363717	TT	CC	1946717770
SNP_P4_136_363785	NC_021160.1	Ca_kabuli_chr01	363785	GG	AA	1946717772
SNP_P4_137_364043	NC_021160.1	Ca_kabuli_chr01	364043	TT	GG	1946717774
SNP_P4_138_368850	NC_021160.1	Ca_kabuli_chr01	368850	CC	AA	1946717776
SNP_P4_139_368860	NC_021160.1	Ca_kabuli_chr01	368860	AA	GG	1946717779

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_140_369014	NC_021160.1	Ca_kabuli_chr01	369014	AA	GG	1946717781
SNP_P4_142_370904	NC_021160.1	Ca_kabuli_chr01	370904	GG	CC	1946717783
SNP_P4_143_370909	NC_021160.1	Ca_kabuli_chr01	370909	GG	CC	1946717785
SNP_P4_144_370914	NC_021160.1	Ca_kabuli_chr01	370914	CC	GG	1946717787
SNP_P4_145_370935	NC_021160.1	Ca_kabuli_chr01	370935	AA	CC	1946717789
SNP_P4_146_371566	NC_021160.1	Ca_kabuli_chr01	371566	CC	TT	1946717791
SNP_P4_147_371768	NC_021160.1	Ca_kabuli_chr01	371768	CC	TT	1946717793
SNP_P4_148_373578	NC_021160.1	Ca_kabuli_chr01	373578	CC	TT	1946717795
SNP_P4_151_374791	NC_021160.1	Ca_kabuli_chr01	374791	CC	TT	1946717797
SNP_P4_152_377399	NC_021160.1	Ca_kabuli_chr01	377399	CC	GG	1946717799
SNP_P4_153_377433	NC_021160.1	Ca_kabuli_chr01	377433	GG	AA	1946717801
SNP_P4_154_377449	NC_021160.1	Ca_kabuli_chr01	377449	GG	TT	1946717803
SNP_P4_155_377599	NC_021160.1	Ca_kabuli_chr01	377599	AA	GG	1946717805
SNP_P4_156_377751	NC_021160.1	Ca_kabuli_chr01	377751	GG	AA	1946717808
SNP_P4_158_377798	NC_021160.1	Ca_kabuli_chr01	377798	TT	AA	1946717810
SNP_P4_159_379304	NC_021160.1	Ca_kabuli_chr01	379304	CC	TT	1946717812
SNP_P4_160_380949	NC_021160.1	Ca_kabuli_chr01	380949	TT	AA	1946717814
SNP_P4_161_380999	NC_021160.1	Ca_kabuli_chr01	380999	AA	TT	1946717816
SNP_P4_162_381248	NC_021160.1	Ca_kabuli_chr01	381248	TT	CC	1946717818
SNP_P4_163_383615	NC_021160.1	Ca_kabuli_chr01	383615	TT	AA	1946717820
SNP_P4_164_385646	NC_021160.1	Ca_kabuli_chr01	385646	CC	TT	1946717823
SNP_P4_165_385674	NC_021160.1	Ca_kabuli_chr01	385674	CC	TT	1946717825
SNP_P4_166_385705	NC_021160.1	Ca_kabuli_chr01	385705	AA	GG	1946717827
SNP_P4_167_385706	NC_021160.1	Ca_kabuli_chr01	385706	AA	GG	1946717829
SNP_P4_168_385734	NC_021160.1	Ca_kabuli_chr01	385734	TT	GG	1946717831
SNP_P4_169_386635	NC_021160.1	Ca_kabuli_chr01	386635	CC	TT	1946717833
SNP_P4_170_386673	NC_021160.1	Ca_kabuli_chr01	386673	AA	CC	1946717835
SNP_P4_171_389327	NC_021160.1	Ca_kabuli_chr01	389327	CC	GG	1946717837
SNP_P4_173_390594	NC_021160.1	Ca_kabuli_chr01	390594	GG	AA	1946717839
SNP_P4_174_392215	NC_021160.1	Ca_kabuli_chr01	392215	CC	TT	1946717841
SNP_P4_175_392221	NC_021160.1	Ca_kabuli_chr01	392221	TT	CC	1946717843
SNP_P4_176_392227	NC_021160.1	Ca_kabuli_chr01	392227	CC	GG	1946717845
SNP_P4_178_393871	NC_021160.1	Ca_kabuli_chr01	393871	GG	AA	1946717847
SNP_P4_179_394549	NC_021160.1	Ca_kabuli_chr01	394549	TT	CC	1946717849
SNP_P4_180_395277	NC_021160.1	Ca_kabuli_chr01	395277	TT	AA	1946717851
SNP_P4_181_395293	NC_021160.1	Ca_kabuli_chr01	395293	AA	GG	1946717853
SNP_P4_182_400528	NC_021160.1	Ca_kabuli_chr01	400528	CC	AA	1946717855
SNP_P4_183_400537	NC_021160.1	Ca_kabuli_chr01	400537	CC	AA	1946717857
SNP_P4_184_400556	NC_021160.1	Ca_kabuli_chr01	400556	AA	CC	1946717859
SNP_P4_185_400570	NC_021160.1	Ca_kabuli_chr01	400570	AA	TT	1946717861
SNP_P4_186_400573	NC_021160.1	Ca_kabuli_chr01	400573	AA	GG	1946717863
SNP_P4_187_400963	NC_021160.1	Ca_kabuli_chr01	400963	AA	TT	1946717865

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SNP_P4_189_401583	NC_021160.1	Ca_kabuli_chr01	401583	TT	AA	1946717867
SNP_P4_190_401612	NC_021160.1	Ca_kabuli_chr01	401612	TT	CC	1946717869
SNP_P4_191_401649	NC_021160.1	Ca_kabuli_chr01	401649	AA	TT	1946717871
SNP_P4_192_401813	NC_021160.1	Ca_kabuli_chr01	401813	GG	AA	1946717874
SNP_P4_193_402916	NC_021160.1	Ca_kabuli_chr01	402916	GG	AA	1946717876
SNP_P4_194_402935	NC_021160.1	Ca_kabuli_chr01	402935	AA	CC	1946717878
SNP_P4_195_402973	NC_021160.1	Ca_kabuli_chr01	402973	AA	TT	1946717880
SNP_P4_196_402979	NC_021160.1	Ca_kabuli_chr01	402979	CC	TT	1946717882
SNP_P4_197_402993	NC_021160.1	Ca_kabuli_chr01	402993	GG	TT	1946717884
SNP_P4_199_403281	NC_021160.1	Ca_kabuli_chr01	403281	GG	AA	1946717886
SNP_P4_200_403413	NC_021160.1	Ca_kabuli_chr01	403413	GG	AA	1946717888
SNP_P4_201_403423	NC_021160.1	Ca_kabuli_chr01	403423	AA	CC	1946717890
SNP_P4_202_403453	NC_021160.1	Ca_kabuli_chr01	403453	GG	AA	1946717892
SNP_P4_203_403741	NC_021160.1	Ca_kabuli_chr01	403741	AA	CC	1946717894
SNP_P4_204_403742	NC_021160.1	Ca_kabuli_chr01	403742	AA	GG	1946717896
SNP_P4_205_403779	NC_021160.1	Ca_kabuli_chr01	403779	GG	AA	1946717898
SNP_P4_206_403809	NC_021160.1	Ca_kabuli_chr01	403809	CC	AA	1946717900
SNP_P4_207_403930	NC_021160.1	Ca_kabuli_chr01	403930	CC	GG	1946717902
SNP_P4_208_403936	NC_021160.1	Ca_kabuli_chr01	403936	TT	CC	1946717904
SNP_P4_209_403942	NC_021160.1	Ca_kabuli_chr01	403942	TT	CC	1946717906
SNP_P4_211_404178	NC_021160.1	Ca_kabuli_chr01	404178	CC	TT	1946717908
SNP_P4_212_404239	NC_021160.1	Ca_kabuli_chr01	404239	GG	TT	1946717910
SNP_P4_213_404244	NC_021160.1	Ca_kabuli_chr01	404244	AA	CC	1946717912
SNP_P4_214_404289	NC_021160.1	Ca_kabuli_chr01	404289	TT	CC	1946717914
SNP_P4_215_404589	NC_021160.1	Ca_kabuli_chr01	404589	AA	TT	1946717916
SNP_P4_216_404603	NC_021160.1	Ca_kabuli_chr01	404603	CC	AA	1946717918
SNP_P4_217_404800	NC_021160.1	Ca_kabuli_chr01	404800	GG	AA	1946717920
SNP_P4_218_405890	NC_021160.1	Ca_kabuli_chr01	405890	TT	CC	1946717922
SNP_P4_220_407312	NC_021160.1	Ca_kabuli_chr01	407312	AA	GG	1946717924
SNP_P4_221_407494	NC_021160.1	Ca_kabuli_chr01	407494	AA	CC	1946717926
SNP_P4_222_407967	NC_021160.1	Ca_kabuli_chr01	407967	TT	GG	1946717928
SNP_P4_223_407978	NC_021160.1	Ca_kabuli_chr01	407978	CC	TT	1946717930
SNP_P4_224_408010	NC_021160.1	Ca_kabuli_chr01	408010	GG	AA	1946717932
SNP_P4_225_408809	NC_021160.1	Ca_kabuli_chr01	408809	GG	TT	1946717935
SNP_P4_226_408827	NC_021160.1	Ca_kabuli_chr01	408827	GG	AA	1946717937
SNP_P4_227_408828	NC_021160.1	Ca_kabuli_chr01	408828	TT	GG	1946717939
SNP_P4_228_408834	NC_021160.1	Ca_kabuli_chr01	408834	GG	AA	1946717941
SNP_P4_229_408865	NC_021160.1	Ca_kabuli_chr01	408865	TT	CC	1946717943
SNP_P4_230_408899	NC_021160.1	Ca_kabuli_chr01	408899	GG	TT	1946717945
SNP_P4_232_409937	NC_021160.1	Ca_kabuli_chr01	409937	CC	AA	1946717947
SNP_P4_233_409948	NC_021160.1	Ca_kabuli_chr01	409948	GG	CC	1946717949
SNP_P4_234_410091	NC_021160.1	Ca_kabuli_chr01	410091	CC	GG	1946717951

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_235_410277	NC_021160.1	Ca_kabuli_chr01	410277	AA	TT	1946717953
SNP_P4_236_410328	NC_021160.1	Ca_kabuli_chr01	410328	TT	AA	1946717955
SNP_P4_237_410333	NC_021160.1	Ca_kabuli_chr01	410333	GG	AA	1946717957
SNP_P4_238_411006	NC_021160.1	Ca_kabuli_chr01	411006	GG	AA	1946717959
SNP_P4_239_413310	NC_021160.1	Ca_kabuli_chr01	413310	AA	GG	1946717961
SNP_P4_241_414047	NC_021160.1	Ca_kabuli_chr01	414047	AA	GG	1946717963
SNP_P4_242_416404	NC_021160.1	Ca_kabuli_chr01	416404	CC	AA	1946717964
SNP_P4_243_416634	NC_021160.1	Ca_kabuli_chr01	416634	TT	CC	1946717966
SNP_P4_244_417413	NC_021160.1	Ca_kabuli_chr01	417413	TT	CC	1946717968
SNP_P4_245_417724	NC_021160.1	Ca_kabuli_chr01	417724	AA	TT	1946717970
SNP_P4_248_417921	NC_021160.1	Ca_kabuli_chr01	417921	GG	TT	1946717972
SNP_P4_249_417933	NC_021160.1	Ca_kabuli_chr01	417933	AA	CC	1946717974
SNP_P4_250_417993	NC_021160.1	Ca_kabuli_chr01	417993	GG	AA	1946717976
SNP_P4_251_418023	NC_021160.1	Ca_kabuli_chr01	418023	CC	AA	1946717978
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SNP_P4_253_418043	NC_021160.1	Ca_kabuli_chr01	418043	CC	AA	1946717982
SNP_P4_254_418118	NC_021160.1	Ca_kabuli_chr01	418118	TT	CC	1946717984
SNP_P4_255_418435	NC_021160.1	Ca_kabuli_chr01	418435	AA	GG	1946717986
SNP_P4_256_418555	NC_021160.1	Ca_kabuli_chr01	418555	GG	AA	1946717988
SNP_P4_257_418578	NC_021160.1	Ca_kabuli_chr01	418578	AA	GG	1946717990
SNP_P4_258_418610	NC_021160.1	Ca_kabuli_chr01	418610	GG	TT	1946717992
SNP_P4_259_418625	NC_021160.1	Ca_kabuli_chr01	418625	CC	TT	1946717994
SNP_P4_260_418964	NC_021160.1	Ca_kabuli_chr01	418964	AA	CC	1946717996
SNP_P4_261_418977	NC_021160.1	Ca_kabuli_chr01	418977	AA	GG	1946717998
SNP_P4_262_419020	NC_021160.1	Ca_kabuli_chr01	419020	AA	GG	1946718000
SNP_P4_263_419255	NC_021160.1	Ca_kabuli_chr01	419255	CC	TT	1946718003
SNP_P4_264_419287	NC_021160.1	Ca_kabuli_chr01	419287	AA	GG	1946718005
SNP_P4_265_419305	NC_021160.1	Ca_kabuli_chr01	419305	CC	TT	1946718007
SNP_P4_266_419335	NC_021160.1	Ca_kabuli_chr01	419335	CC	TT	1946718009
SNP_P4_267_419339	NC_021160.1	Ca_kabuli_chr01	419339	AA	CC	1946718011
SNP_P4_268_419417	NC_021160.1	Ca_kabuli_chr01	419417	AA	GG	1946718013
SNP_P4_269_421745	NC_021160.1	Ca_kabuli_chr01	421745	GG	AA	1946718015
SNP_P4_270_422611	NC_021160.1	Ca_kabuli_chr01	422611	GG	AA	1946718017
SNP_P4_271_422617	NC_021160.1	Ca_kabuli_chr01	422617	GG	AA	1946718019
SNP_P4_272_422798	NC_021160.1	Ca_kabuli_chr01	422798	CC	GG	1946718021
SNP_P4_273_422846	NC_021160.1	Ca_kabuli_chr01	422846	AA	TT	1946718023
SNP_P4_274_422848	NC_021160.1	Ca_kabuli_chr01	422848	GG	AA	1946718025
SNP_P4_275_422930	NC_021160.1	Ca_kabuli_chr01	422930	TT	GG	1946718027
SNP_P4_276_423005	NC_021160.1	Ca_kabuli_chr01	423005	CC	TT	1946718029
SNP_P4_277_423367	NC_021160.1	Ca_kabuli_chr01	423367	GG	CC	1946718031
SNP_P4_278_423568	NC_021160.1	Ca_kabuli_chr01	423568	GG	AA	1946718033
SNP_P4_279_423911	NC_021160.1	Ca_kabuli_chr01	423911	TT	AA	1946718035

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_281_424200	NC_021160.1	Ca_kabuli_chr01	424200	TT	AA	1946718039
SNP_P4_282_424230	NC_021160.1	Ca_kabuli_chr01	424230	CC	GG	1946718041
SNP_P4_283_424805	NC_021160.1	Ca_kabuli_chr01	424805	AA	GG	1946718043
SNP_P4_284_425388	NC_021160.1	Ca_kabuli_chr01	425388	TT	AA	1946718045
SNP_P4_285_425453	NC_021160.1	Ca_kabuli_chr01	425453	GG	AA	1946718047
SNP_P4_286_425598	NC_021160.1	Ca_kabuli_chr01	425598	AA	GG	1946718049
SNP_P4_288_426167	NC_021160.1	Ca_kabuli_chr01	426167	AA	GG	1946718051
SNP_P4_290_430448	NC_021160.1	Ca_kabuli_chr01	430448	TT	CC	1946718053
SNP_P4_291_430458	NC_021160.1	Ca_kabuli_chr01	430458	CC	TT	1946718055
SNP_P4_292_430735	NC_021160.1	Ca_kabuli_chr01	430735	GG	AA	1946718057
SNP_P4_293_431646	NC_021160.1	Ca_kabuli_chr01	431646	AA	GG	1946718059
SNP_P4_294_431978	NC_021160.1	Ca_kabuli_chr01	431978	AA	GG	1946718061
SNP_P4_296_432259	NC_021160.1	Ca_kabuli_chr01	432259	AA	GG	1946718063
SNP_P4_297_454406	NC_021160.1	Ca_kabuli_chr01	454406	AA	GG	1946718065
SNP_P4_298_459399	NC_021160.1	Ca_kabuli_chr01	459399	CC	TT	1946718067
SNP_P4_299_473084	NC_021160.1	Ca_kabuli_chr01	473084	GG	AA	1946718069
SNP_P4_300_476676	NC_021160.1	Ca_kabuli_chr01	476676	AA	GG	1946718074
SNP_P4_301_502524	NC_021160.1	Ca_kabuli_chr01	502524	GG	AA	1946718080
SNP_P4_302_546092	NC_021160.1	Ca_kabuli_chr01	546092	GG	AA	1946718082
SNP_P4_303_546093	NC_021160.1	Ca_kabuli_chr01	546093	GG	AA	1946718084
SNP_P4_304_546096	NC_021160.1	Ca_kabuli_chr01	546096	AA	TT	1946718086
SNP_P4_305_562868	NC_021160.1	Ca_kabuli_chr01	562868	CC	TT	1946718088
SNP_P4_307_676003	NC_021160.1	Ca_kabuli_chr01	676003	TT	GG	1946718090
SNP_P4_308_697933	NC_021160.1	Ca_kabuli_chr01	697933	AA	TT	1946718092
SNP_P4_310_805256	NC_021160.1	Ca_kabuli_chr01	805256	GG	AA	1946718094
SNP_P4_311_811565	NC_021160.1	Ca_kabuli_chr01	811565	GG	AA	1946718096
SNP_P4_312_852414	NC_021160.1	Ca_kabuli_chr01	852414	TT	CC	1946718098
SNP_P4_313_884497	NC_021160.1	Ca_kabuli_chr01	884497	AA	GG	1946718100
SNP_P4_314_894157	NC_021160.1	Ca_kabuli_chr01	894157	GG	AA	1946718102
SNP_P4_315_894161	NC_021160.1	Ca_kabuli_chr01	894161	AA	TT	1946718104
SNP_P4_316_939317	NC_021160.1	Ca_kabuli_chr01	939317	CC	TT	1946718106
SNP_P4_317_946348	NC_021160.1	Ca_kabuli_chr01	946348	AA	GG	1946718108
SNP_P4_319_1021803	NC_021160.1	Ca_kabuli_chr01	1021803	AA	TT	1946718110
SNP_P4_320_1048663	NC_021160.1	Ca_kabuli_chr01	1048663	TT	CC	1946718112
SNP_P4_322_1098042	NC_021160.1	Ca_kabuli_chr01	1098042	AA	GG	1946718114
SNP_P4_323_1125210	NC_021160.1	Ca_kabuli_chr01	1125210	GG	CC	1946718116
SNP_P4_324_1143403	NC_021160.1	Ca_kabuli_chr01	1143403	CC	TT	1946718118
SNP_P4_325_1145180	NC_021160.1	Ca_kabuli_chr01	1145180	AA	GG	1946718121
SNP_P4_326_1145182	NC_021160.1	Ca_kabuli_chr01	1145182	TT	GG	1946718123
SNP_P4_328_1159904	NC_021160.1	Ca_kabuli_chr01	1159904	TT	CC	1946718125
SNP_P4_329_1169866	NC_021160.1	Ca_kabuli_chr01	1169866	TT	AA	1946718127

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_331_1177786	NC_021160.1	Ca_kabuli_chr01	1177786	TT	AA	1946718131
SNP_P4_332_1186112	NC_021160.1	Ca_kabuli_chr01	1186112	AA	GG	1946718133
SNP_P4_333_1192830	NC_021160.1	Ca_kabuli_chr01	1192830	CC	TT	1946718135
SNP_P4_334_1192835	NC_021160.1	Ca_kabuli_chr01	1192835	CC	AA	1946718137
SNP_P4_335_1201584	NC_021160.1	Ca_kabuli_chr01	1201584	AA	GG	1946718139
SNP_P4_336_1202750	NC_021160.1	Ca_kabuli_chr01	1202750	GG	TT	1946718142
SNP_P4_337_1208857	NC_021160.1	Ca_kabuli_chr01	1208857	GG	AA	1946718145
SNP_P4_338_1209154	NC_021160.1	Ca_kabuli_chr01	1209154	TT	CC	1946718147
SNP_P4_339_1210062	NC_021160.1	Ca_kabuli_chr01	1210062	GG	TT	1946718149
SNP_P4_340_1228300	NC_021160.1	Ca_kabuli_chr01	1228300	GG	AA	1946718151
SNP_P4_341_1230289	NC_021160.1	Ca_kabuli_chr01	1230289	GG	AA	1946718154
SNP_P4_342_1233390	NC_021160.1	Ca_kabuli_chr01	1233390	AA	GG	1946718156
SNP_P4_343_1308962	NC_021160.1	Ca_kabuli_chr01	1308962	CC	TT	1946718158
SNP_P4_344_1331845	NC_021160.1	Ca_kabuli_chr01	1331845	CC	TT	1946718160
SNP_P4_345_1347563	NC_021160.1	Ca_kabuli_chr01	1347563	TT	CC	1946718162
SNP_P4_346_1349492	NC_021160.1	Ca_kabuli_chr01	1349492	GG	AA	1946718164
SNP_P4_347_1361395	NC_021160.1	Ca_kabuli_chr01	1361395	TT	AA	1946718166
SNP_P4_349_1371789	NC_021160.1	Ca_kabuli_chr01	1371789	CC	TT	1946718168
SNP_P4_350_1371791	NC_021160.1	Ca_kabuli_chr01	1371791	TT	GG	1946718170
SNP_P4_351_1377085	NC_021160.1	Ca_kabuli_chr01	1377085	TT	CC	1946718172
SNP_P4_355_1409346	NC_021160.1	Ca_kabuli_chr01	1409346	AA	TT	1946718175
SNP_P4_356_1464119	NC_021160.1	Ca_kabuli_chr01	1464119	AA	CC	1946718177
SNP_P4_357_1542701	NC_021160.1	Ca_kabuli_chr01	1542701	CC	TT	1946718179
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SNP_P4_360_1619648	NC_021160.1	Ca_kabuli_chr01	1619648	AA	GG	1946718185
SNP_P4_361_1648320	NC_021160.1	Ca_kabuli_chr01	1648320	TT	CC	1946718187
SNP_P4_362_1657206	NC_021160.1	Ca_kabuli_chr01	1657206	CC	TT	1946718189
SNP_P4_363_1686137	NC_021160.1	Ca_kabuli_chr01	1686137	GG	AA	1946718191
SNP_P4_364_1687884	NC_021160.1	Ca_kabuli_chr01	1687884	TT	CC	1946718193
SNP_P4_365_1687993	NC_021160.1	Ca_kabuli_chr01	1687993	AA	GG	1946718195
SNP_P4_368_1723136	NC_021160.1	Ca_kabuli_chr01	1723136	TT	CC	1946718197
SNP_P4_369_1732647	NC_021160.1	Ca_kabuli_chr01	1732647	CC	TT	1946718199
SNP_P4_370_1732667	NC_021160.1	Ca_kabuli_chr01	1732667	GG	AA	1946718201
SNP_P4_371_1734275	NC_021160.1	Ca_kabuli_chr01	1734275	AA	CC	1946718203
SNP_P4_372_1734298	NC_021160.1	Ca_kabuli_chr01	1734298	GG	AA	1946718205
SNP_P4_373_1734654	NC_021160.1	Ca_kabuli_chr01	1734654	AA	TT	1946718207
SNP_P4_374_1734690	NC_021160.1	Ca_kabuli_chr01	1734690	CC	TT	1946718209
SNP_P4_375_1734696	NC_021160.1	Ca_kabuli_chr01	1734696	TT	CC	1946718211
SNP_P4_376_1735237	NC_021160.1	Ca_kabuli_chr01	1735237	TT	CC	1946718213
SNP_P4_377_1735527	NC_021160.1	Ca_kabuli_chr01	1735527	AA	GG	1946718215

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_379_1735546	NC_021160.1	Ca_kabuli_chr01	1735546	TT	CC	1946718219
SNP_P4_380_1739883	NC_021160.1	Ca_kabuli_chr01	1739883	AA	CC	1946718221
SNP_P4_381_1741406	NC_021160.1	Ca_kabuli_chr01	1741406	CC	AA	1946718223
SNP_P4_382_1741702	NC_021160.1	Ca_kabuli_chr01	1741702	GG	AA	1946718225
SNP_P4_383_1742261	NC_021160.1	Ca_kabuli_chr01	1742261	GG	TT	1946718227
SNP_P4_384_1742621	NC_021160.1	Ca_kabuli_chr01	1742621	GG	TT	1946718229
SNP_P4_385_1742938	NC_021160.1	Ca_kabuli_chr01	1742938	TT	AA	1946718230
SNP_P4_386_1743213	NC_021160.1	Ca_kabuli_chr01	1743213	AA	GG	1946718232
SNP_P4_387_1743651	NC_021160.1	Ca_kabuli_chr01	1743651	AA	TT	1946718234
SNP_P4_388_1743860	NC_021160.1	Ca_kabuli_chr01	1743860	GG	TT	1946718236
SNP_P4_389_1743863	NC_021160.1	Ca_kabuli_chr01	1743863	TT	CC	1946718238
SNP_P4_390_1744811	NC_021160.1	Ca_kabuli_chr01	1744811	GG	AA	1946718240
SNP_P4_392_1744841	NC_021160.1	Ca_kabuli_chr01	1744841	CC	TT	1946718242
SNP_P4_393_1744889	NC_021160.1	Ca_kabuli_chr01	1744889	CC	TT	1946718244
SNP_P4_394_1744911	NC_021160.1	Ca_kabuli_chr01	1744911	AA	CC	1946718246
SNP_P4_395_1744923	NC_021160.1	Ca_kabuli_chr01	1744923	GG	AA	1946718248
SNP_P4_397_1745063	NC_021160.1	Ca_kabuli_chr01	1745063	GG	AA	1946718250
SNP_P4_399_1745940	NC_021160.1	Ca_kabuli_chr01	1745940	GG	CC	1946718252
SNP_P4_400_1745997	NC_021160.1	Ca_kabuli_chr01	1745997	CC	TT	1946718254
SNP_P4_401_1746129	NC_021160.1	Ca_kabuli_chr01	1746129	TT	GG	1946718256
SNP_P4_402_1746195	NC_021160.1	Ca_kabuli_chr01	1746195	TT	GG	1946718258
SNP_P4_404_1746298	NC_021160.1	Ca_kabuli_chr01	1746298	AA	TT	1946718260
SNP_P4_405_1757035	NC_021160.1	Ca_kabuli_chr01	1757035	GG	AA	1946718262
SNP_P4_406_1763726	NC_021160.1	Ca_kabuli_chr01	1763726	GG	AA	1946718264
SNP_P4_407_1767256	NC_021160.1	Ca_kabuli_chr01	1767256	AA	GG	1946718266
SNP_P4_408_1777520	NC_021160.1	Ca_kabuli_chr01	1777520	CC	TT	1946718268
SNP_P4_411_1777857	NC_021160.1	Ca_kabuli_chr01	1777857	CC	TT	1946718270
SNP_P4_412_1778647	NC_021160.1	Ca_kabuli_chr01	1778647	AA	TT	1946718272
SNP_P4_413_1778682	NC_021160.1	Ca_kabuli_chr01	1778682	TT	GG	1946718274
SNP_P4_415_1779251	NC_021160.1	Ca_kabuli_chr01	1779251	TT	CC	1946718276
SNP_P4_416_1780191	NC_021160.1	Ca_kabuli_chr01	1780191	TT	CC	1946718278
SNP_P4_418_1780413	NC_021160.1	Ca_kabuli_chr01	1780413	TT	AA	1946718280
SNP_P4_419_1780439	NC_021160.1	Ca_kabuli_chr01	1780439	TT	CC	1946718282
SNP_P4_420_1780467	NC_021160.1	Ca_kabuli_chr01	1780467	AA	GG	1946718284
SNP_P4_421_1780478	NC_021160.1	Ca_kabuli_chr01	1780478	TT	AA	1946718286
SNP_P4_422_1781013	NC_021160.1	Ca_kabuli_chr01	1781013	GG	AA	1946718288
SNP_P4_423_1781018	NC_021160.1	Ca_kabuli_chr01	1781018	TT	AA	1946718290
SNP_P4_424_1783094	NC_021160.1	Ca_kabuli_chr01	1783094	GG	AA	1946718292
SNP_P4_425_1783280	NC_021160.1	Ca_kabuli_chr01	1783280	CC	AA	1946718294
SNP_P4_426_1783388	NC_021160.1	Ca_kabuli_chr01	1783388	AA	CC	1946718296
SNP_P4_427_1783389	NC_021160.1	Ca_kabuli_chr01	1783389	GG	AA	1946718298

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_429_1785122	NC_021160.1	Ca_kabuli_chr01	1785122	TT	CC	1946718302
SNP_P4_432_1787949	NC_021160.1	Ca_kabuli_chr01	1787949	CC	TT	1946718304
SNP_P4_433_1788244	NC_021160.1	Ca_kabuli_chr01	1788244	CC	GG	1946718306
SNP_P4_434_1788958	NC_021160.1	Ca_kabuli_chr01	1788958	AA	TT	1946718308
SNP_P4_435_1788992	NC_021160.1	Ca_kabuli_chr01	1788992	TT	CC	1946718310
SNP_P4_436_1788999	NC_021160.1	Ca_kabuli_chr01	1788999	TT	GG	1946718312
SNP_P4_437_1789010	NC_021160.1	Ca_kabuli_chr01	1789010	GG	AA	1946718314
SNP_P4_439_1789266	NC_021160.1	Ca_kabuli_chr01	1789266	TT	CC	1946718316
SNP_P4_440_1789721	NC_021160.1	Ca_kabuli_chr01	1789721	AA	GG	1946718318
SNP_P4_441_1793011	NC_021160.1	Ca_kabuli_chr01	1793011	TT	AA	1946718320
SNP_P4_442_1793256	NC_021160.1	Ca_kabuli_chr01	1793256	CC	TT	1946718322
SNP_P4_443_1793260	NC_021160.1	Ca_kabuli_chr01	1793260	GG	TT	1946718323
SNP_P4_444_1794616	NC_021160.1	Ca_kabuli_chr01	1794616	GG	AA	1946718325
SNP_P4_445_1794637	NC_021160.1	Ca_kabuli_chr01	1794637	AA	GG	1946718327
SNP_P4_446_1794821	NC_021160.1	Ca_kabuli_chr01	1794821	AA	TT	1946718329
SNP_P4_447_1794926	NC_021160.1	Ca_kabuli_chr01	1794926	TT	AA	1946718331
SNP_P4_448_1795453	NC_021160.1	Ca_kabuli_chr01	1795453	CC	TT	1946718333
SNP_P4_449_1796411	NC_021160.1	Ca_kabuli_chr01	1796411	AA	GG	1946718335
SNP_P4_450_1796785	NC_021160.1	Ca_kabuli_chr01	1796785	TT	CC	1946718337
SNP_P4_452_1802075	NC_021160.1	Ca_kabuli_chr01	1802075	TT	CC	1946718339
SNP_P4_453_1802462	NC_021160.1	Ca_kabuli_chr01	1802462	TT	CC	1946718341
SNP_P4_454_1803214	NC_021160.1	Ca_kabuli_chr01	1803214	CC	TT	1946718343
SNP_P4_455_1803230	NC_021160.1	Ca_kabuli_chr01	1803230	AA	GG	1946718345
SNP_P4_456_1803257	NC_021160.1	Ca_kabuli_chr01	1803257	GG	CC	1946718347
SNP_P4_457_1803273	NC_021160.1	Ca_kabuli_chr01	1803273	TT	CC	1946718349
SNP_P4_459_1804537	NC_021160.1	Ca_kabuli_chr01	1804537	CC	AA	1946718351
SNP_P4_461_1805231	NC_021160.1	Ca_kabuli_chr01	1805231	AA	CC	1946718353
SNP_P4_462_1805369	NC_021160.1	Ca_kabuli_chr01	1805369	AA	TT	1946718355
SNP_P4_463_1805381	NC_021160.1	Ca_kabuli_chr01	1805381	AA	GG	1946718357
SNP_P4_464_1805383	NC_021160.1	Ca_kabuli_chr01	1805383	AA	TT	1946718359
SNP_P4_465_1805624	NC_021160.1	Ca_kabuli_chr01	1805624	AA	TT	1946718361
SNP_P4_466_1805738	NC_021160.1	Ca_kabuli_chr01	1805738	CC	TT	1946718363
SNP_P4_467_1805743	NC_021160.1	Ca_kabuli_chr01	1805743	AA	GG	1946718365
SNP_P4_468_1805769	NC_021160.1	Ca_kabuli_chr01	1805769	AA	GG	1946718367
SNP_P4_469_1805893	NC_021160.1	Ca_kabuli_chr01	1805893	GG	TT	1946718369
SNP_P4_470_1805906	NC_021160.1	Ca_kabuli_chr01	1805906	GG	TT	1946718371
SNP_P4_471_1806248	NC_021160.1	Ca_kabuli_chr01	1806248	GG	TT	1946718373
SNP_P4_472_1806264	NC_021160.1	Ca_kabuli_chr01	1806264	TT	CC	1946718375
SNP_P4_473_1806526	NC_021160.1	Ca_kabuli_chr01	1806526	AA	TT	1946718377
SNP_P4_474_1806985	NC_021160.1	Ca_kabuli_chr01	1806985	AA	GG	1946718379
SNP_P4_475_1806997	NC_021160.1	Ca_kabuli_chr01	1806997	TT	AA	1946718381

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_477_1807309	NC_021160.1	Ca_kabuli_chr01	1807309	GG	AA	1946718385
SNP_P4_478_1807316	NC_021160.1	Ca_kabuli_chr01	1807316	CC	GG	1946718387
SNP_P4_479_1807317	NC_021160.1	Ca_kabuli_chr01	1807317	AA	GG	1946718389
SNP_P4_480_1807318	NC_021160.1	Ca_kabuli_chr01	1807318	CC	TT	1946718391
SNP_P4_481_1807342	NC_021160.1	Ca_kabuli_chr01	1807342	TT	CC	1946718393
SNP_P4_482_1807689	NC_021160.1	Ca_kabuli_chr01	1807689	AA	GG	1946718395
SNP_P4_483_1807694	NC_021160.1	Ca_kabuli_chr01	1807694	TT	CC	1946718397
SNP_P4_484_1807701	NC_021160.1	Ca_kabuli_chr01	1807701	TT	CC	1946718399
SNP_P4_485_1807926	NC_021160.1	Ca_kabuli_chr01	1807926	AA	TT	1946718401
SNP_P4_486_1807936	NC_021160.1	Ca_kabuli_chr01	1807936	CC	AA	1946718403
SNP_P4_487_1807945	NC_021160.1	Ca_kabuli_chr01	1807945	GG	CC	1946718405
SNP_P4_488_1808763	NC_021160.1	Ca_kabuli_chr01	1808763	TT	CC	1946718407
SNP_P4_489_1811050	NC_021160.1	Ca_kabuli_chr01	1811050	TT	CC	1946718409
SNP_P4_490_1811555	NC_021160.1	Ca_kabuli_chr01	1811555	TT	CC	1946718411
SNP_P4_491_1811565	NC_021160.1	Ca_kabuli_chr01	1811565	CC	TT	1946718413
SNP_P4_492_1811580	NC_021160.1	Ca_kabuli_chr01	1811580	CC	AA	1946718415
SNP_P4_493_1813059	NC_021160.1	Ca_kabuli_chr01	1813059	AA	TT	1946718417
SNP_P4_494_1813097	NC_021160.1	Ca_kabuli_chr01	1813097	AA	TT	1946718419
SNP_P4_495_1813109	NC_021160.1	Ca_kabuli_chr01	1813109	TT	GG	1946718421
SNP_P4_496_1814033	NC_021160.1	Ca_kabuli_chr01	1814033	AA	GG	1946718422
SNP_P4_497_1816987	NC_021160.1	Ca_kabuli_chr01	1816987	AA	GG	1946718423
SNP_P4_498_1817280	NC_021160.1	Ca_kabuli_chr01	1817280	CC	AA	1946718424
SNP_P4_499_1817338	NC_021160.1	Ca_kabuli_chr01	1817338	TT	AA	1946718426
SNP_P4_500_1817350	NC_021160.1	Ca_kabuli_chr01	1817350	AA	TT	1946718428
SNP_P4_501_1817568	NC_021160.1	Ca_kabuli_chr01	1817568	AA	GG	1946718431
SNP_P4_502_1818016	NC_021160.1	Ca_kabuli_chr01	1818016	TT	AA	1946718433
SNP_P4_503_1818017	NC_021160.1	Ca_kabuli_chr01	1818017	GG	TT	1946718435
SNP_P4_504_1818023	NC_021160.1	Ca_kabuli_chr01	1818023	AA	CC	1946718437
SNP_P4_505_1818035	NC_021160.1	Ca_kabuli_chr01	1818035	CC	GG	1946718439
SNP_P4_506_1818290	NC_021160.1	Ca_kabuli_chr01	1818290	TT	CC	1946718441
SNP_P4_507_1818773	NC_021160.1	Ca_kabuli_chr01	1818773	CC	TT	1946718443
SNP_P4_508_1819182	NC_021160.1	Ca_kabuli_chr01	1819182	CC	TT	1946718445
SNP_P4_509_1819185	NC_021160.1	Ca_kabuli_chr01	1819185	TT	AA	1946718447
SNP_P4_510_1819202	NC_021160.1	Ca_kabuli_chr01	1819202	AA	GG	1946718449
SNP_P4_511_1819347	NC_021160.1	Ca_kabuli_chr01	1819347	GG	CC	1946718451
SNP_P4_512_1819624	NC_021160.1	Ca_kabuli_chr01	1819624	AA	TT	1946718453
SNP_P4_513_1820550	NC_021160.1	Ca_kabuli_chr01	1820550	TT	GG	1946718455
SNP_P4_514_1820590	NC_021160.1	Ca_kabuli_chr01	1820590	AA	TT	1946718457
SNP_P4_515_1821121	NC_021160.1	Ca_kabuli_chr01	1821121	GG	CC	1946718459
SNP_P4_516_1821280	NC_021160.1	Ca_kabuli_chr01	1821280	AA	TT	1946718462
SNP_P4_517_1821551	NC_021160.1	Ca_kabuli_chr01	1821551	AA	TT	1946718464

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_523_1824412	NC_021160.1	Ca_kabuli_chr01	1824412	TT	GG	1946718468
SNP_P4_524_1826421	NC_021160.1	Ca_kabuli_chr01	1826421	TT	AA	1946718470
SNP_P4_526_1836111	NC_021160.1	Ca_kabuli_chr01	1836111	TT	AA	1946718472
SNP_P4_527_1836363	NC_021160.1	Ca_kabuli_chr01	1836363	TT	AA	1946718474
SNP_P4_529_1836480	NC_021160.1	Ca_kabuli_chr01	1836480	AA	TT	1946718476
SNP_P4_530_1836534	NC_021160.1	Ca_kabuli_chr01	1836534	TT	GG	1946718478
SNP_P4_531_1836739	NC_021160.1	Ca_kabuli_chr01	1836739	CC	TT	1946718480
SNP_P4_533_1836817	NC_021160.1	Ca_kabuli_chr01	1836817	AA	TT	1946718482
SNP_P4_534_1836918	NC_021160.1	Ca_kabuli_chr01	1836918	TT	AA	1946718484
SNP_P4_535_1837125	NC_021160.1	Ca_kabuli_chr01	1837125	GG	AA	1946718486
SNP_P4_536_1839038	NC_021160.1	Ca_kabuli_chr01	1839038	GG	TT	1946718488
SNP_P4_537_1839051	NC_021160.1	Ca_kabuli_chr01	1839051	TT	CC	1946718490
SNP_P4_538_1839607	NC_021160.1	Ca_kabuli_chr01	1839607	AA	GG	1946718492
SNP_P4_539_1840158	NC_021160.1	Ca_kabuli_chr01	1840158	AA	TT	1946718495
SNP_P4_540_1840433	NC_021160.1	Ca_kabuli_chr01	1840433	CC	TT	1946718497
SNP_P4_541_1840799	NC_021160.1	Ca_kabuli_chr01	1840799	AA	CC	1946718499
SNP_P4_542_1840818	NC_021160.1	Ca_kabuli_chr01	1840818	CC	TT	1946718501
SNP_P4_543_1840824	NC_021160.1	Ca_kabuli_chr01	1840824	AA	GG	1946718503
SNP_P4_544_1840901	NC_021160.1	Ca_kabuli_chr01	1840901	AA	CC	1946718505
SNP_P4_545_1840967	NC_021160.1	Ca_kabuli_chr01	1840967	CC	AA	1946718507
SNP_P4_546_1840971	NC_021160.1	Ca_kabuli_chr01	1840971	TT	CC	1946718509
SNP_P4_547_1840980	NC_021160.1	Ca_kabuli_chr01	1840980	TT	CC	1946718511
SNP_P4_549_1841306	NC_021160.1	Ca_kabuli_chr01	1841306	GG	TT	1946718513
SNP_P4_550_1841321	NC_021160.1	Ca_kabuli_chr01	1841321	AA	GG	1946718515
SNP_P4_551_1841324	NC_021160.1	Ca_kabuli_chr01	1841324	TT	CC	1946718517
SNP_P4_552_1841325	NC_021160.1	Ca_kabuli_chr01	1841325	CC	GG	1946718519
SNP_P4_553_1841358	NC_021160.1	Ca_kabuli_chr01	1841358	AA	CC	1946718521
SNP_P4_554_1841377	NC_021160.1	Ca_kabuli_chr01	1841377	TT	AA	1946718523
SNP_P4_556_1841497	NC_021160.1	Ca_kabuli_chr01	1841497	CC	AA	1946718525
SNP_P4_557_1845199	NC_021160.1	Ca_kabuli_chr01	1845199	CC	TT	1946718527
SNP_P4_560_1847566	NC_021160.1	Ca_kabuli_chr01	1847566	TT	CC	1946718529
SNP_P4_561_1847704	NC_021160.1	Ca_kabuli_chr01	1847704	TT	CC	1946718531
SNP_P4_563_1848157	NC_021160.1	Ca_kabuli_chr01	1848157	TT	AA	1946718533
SNP_P4_564_1848158	NC_021160.1	Ca_kabuli_chr01	1848158	TT	CC	1946718535
SNP_P4_565_1848188	NC_021160.1	Ca_kabuli_chr01	1848188	GG	AA	1946718537
SNP_P4_566_1848332	NC_021160.1	Ca_kabuli_chr01	1848332	TT	CC	1946718540
SNP_P4_567_1848347	NC_021160.1	Ca_kabuli_chr01	1848347	AA	GG	1946718542
SNP_P4_568_1848351	NC_021160.1	Ca_kabuli_chr01	1848351	GG	TT	1946718544
SNP_P4_569_1848759	NC_021160.1	Ca_kabuli_chr01	1848759	TT	CC	1946718546
SNP_P4_571_1850736	NC_021160.1	Ca_kabuli_chr01	1850736	TT	GG	1946718549
SNP_P4_572_1850870	NC_021160.1	Ca_kabuli_chr01	1850870	TT	CC	1946718551

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_574_1851196	NC_021160.1	Ca_kabuli_chr01	1851196	GG	AA	1946718555
SNP_P4_575_1851403	NC_021160.1	Ca_kabuli_chr01	1851403	AA	TT	1946718557
SNP_P4_576_1851565	NC_021160.1	Ca_kabuli_chr01	1851565	TT	AA	1946718559
SNP_P4_577_1851578	NC_021160.1	Ca_kabuli_chr01	1851578	GG	AA	1946718561
SNP_P4_578_1852464	NC_021160.1	Ca_kabuli_chr01	1852464	CC	TT	1946718563
SNP_P4_580_1852687	NC_021160.1	Ca_kabuli_chr01	1852687	TT	CC	1946718565
SNP_P4_582_1852886	NC_021160.1	Ca_kabuli_chr01	1852886	TT	AA	1946718567
SNP_P4_583_1852937	NC_021160.1	Ca_kabuli_chr01	1852937	GG	AA	1946718569
SNP_P4_584_1852948	NC_021160.1	Ca_kabuli_chr01	1852948	AA	TT	1946718571
SNP_P4_585_1852953	NC_021160.1	Ca_kabuli_chr01	1852953	CC	AA	1946718573
SNP_P4_586_1852967	NC_021160.1	Ca_kabuli_chr01	1852967	GG	AA	1946718575
SNP_P4_587_1853759	NC_021160.1	Ca_kabuli_chr01	1853759	TT	AA	1946718577
SNP_P4_588_1856176	NC_021160.1	Ca_kabuli_chr01	1856176	TT	CC	1946718579
SNP_P4_589_1856227	NC_021160.1	Ca_kabuli_chr01	1856227	GG	AA	1946718581
SNP_P4_591_1856294	NC_021160.1	Ca_kabuli_chr01	1856294	AA	TT	1946718583
SNP_P4_592_1856423	NC_021160.1	Ca_kabuli_chr01	1856423	TT	AA	1946718585
SNP_P4_593_1856496	NC_021160.1	Ca_kabuli_chr01	1856496	AA	CC	1946718587
SNP_P4_594_1857837	NC_021160.1	Ca_kabuli_chr01	1857837	AA	TT	1946718589
SNP_P4_595_1857860	NC_021160.1	Ca_kabuli_chr01	1857860	CC	TT	1946718591
SNP_P4_596_1858064	NC_021160.1	Ca_kabuli_chr01	1858064	TT	AA	1946718593
SNP_P4_597_1858073	NC_021160.1	Ca_kabuli_chr01	1858073	TT	CC	1946718595
SNP_P4_598_1858078	NC_021160.1	Ca_kabuli_chr01	1858078	CC	TT	1946718597
SNP_P4_599_1858084	NC_021160.1	Ca_kabuli_chr01	1858084	TT	CC	1946718599
SNP_P4_600_1858226	NC_021160.1	Ca_kabuli_chr01	1858226	AA	GG	1946718601
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SNP_P4_602_1858608	NC_021160.1	Ca_kabuli_chr01	1858608	AA	TT	1946718605
SNP_P4_603_1859659	NC_021160.1	Ca_kabuli_chr01	1859659	GG	TT	1946718606
SNP_P4_604_1860132	NC_021160.1	Ca_kabuli_chr01	1860132	AA	GG	1946718608
SNP_P4_605_1860514	NC_021160.1	Ca_kabuli_chr01	1860514	TT	AA	1946718610
SNP_P4_607_1860808	NC_021160.1	Ca_kabuli_chr01	1860808	AA	CC	1946718612
SNP_P4_608_1860960	NC_021160.1	Ca_kabuli_chr01	1860960	GG	AA	1946718614
SNP_P4_609_1862533	NC_021160.1	Ca_kabuli_chr01	1862533	CC	AA	1946718616
SNP_P4_610_1862568	NC_021160.1	Ca_kabuli_chr01	1862568	GG	AA	1946718618
SNP_P4_611_1863369	NC_021160.1	Ca_kabuli_chr01	1863369	TT	CC	1946718620
SNP_P4_612_1864397	NC_021160.1	Ca_kabuli_chr01	1864397	AA	GG	1946718622
SNP_P4_613_1864909	NC_021160.1	Ca_kabuli_chr01	1864909	TT	GG	1946718624
SNP_P4_614_1869287	NC_021160.1	Ca_kabuli_chr01	1869287	TT	CC	1946718626
SNP_P4_615_1869845	NC_021160.1	Ca_kabuli_chr01	1869845	GG	AA	1946718629
SNP_P4_616_1869849	NC_021160.1	Ca_kabuli_chr01	1869849	TT	CC	1946718631
SNP_P4_617_1869864	NC_021160.1	Ca_kabuli_chr01	1869864	CC	AA	1946718633
SNP_P4_618_1869865	NC_021160.1	Ca_kabuli_chr01	1869865	AA	GG	1946718635

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_620_1870245	NC_021160.1	Ca_kabuli_chr01	1870245	TT	AA	1946718639
SNP_P4_621_1872314	NC_021160.1	Ca_kabuli_chr01	1872314	TT	CC	1946718641
SNP_P4_622_1873131	NC_021160.1	Ca_kabuli_chr01	1873131	TT	CC	1946718643
SNP_P4_623_1874435	NC_021160.1	Ca_kabuli_chr01	1874435	TT	AA	1946718645
SNP_P4_624_1874440	NC_021160.1	Ca_kabuli_chr01	1874440	TT	AA	1946718647
SNP_P4_625_1875844	NC_021160.1	Ca_kabuli_chr01	1875844	CC	TT	1946718649
SNP_P4_626_1876104	NC_021160.1	Ca_kabuli_chr01	1876104	TT	AA	1946718651
SNP_P4_628_1876553	NC_021160.1	Ca_kabuli_chr01	1876553	AA	GG	1946718652
SNP_P4_629_1876567	NC_021160.1	Ca_kabuli_chr01	1876567	TT	AA	1946718654
SNP_P4_630_1878597	NC_021160.1	Ca_kabuli_chr01	1878597	TT	CC	1946718656
SNP_P4_631_1878628	NC_021160.1	Ca_kabuli_chr01	1878628	GG	AA	1946718658
SNP_P4_632_1878793	NC_021160.1	Ca_kabuli_chr01	1878793	CC	GG	1946718660
SNP_P4_633_1878834	NC_021160.1	Ca_kabuli_chr01	1878834	GG	CC	1946718662
SNP_P4_634_1878874	NC_021160.1	Ca_kabuli_chr01	1878874	CC	GG	1946718664
SNP_P4_635_1880954	NC_021160.1	Ca_kabuli_chr01	1880954	GG	AA	1946718666
SNP_P4_636_1881134	NC_021160.1	Ca_kabuli_chr01	1881134	GG	AA	1946718668
SNP_P4_637_1881147	NC_021160.1	Ca_kabuli_chr01	1881147	AA	CC	1946718670
SNP_P4_638_1881773	NC_021160.1	Ca_kabuli_chr01	1881773	CC	AA	1946718672
SNP_P4_639_1881776	NC_021160.1	Ca_kabuli_chr01	1881776	CC	TT	1946718674
SNP_P4_640_1881941	NC_021160.1	Ca_kabuli_chr01	1881941	TT	CC	1946718676
SNP_P4_641_1882350	NC_021160.1	Ca_kabuli_chr01	1882350	AA	TT	1946718678
SNP_P4_642_1882530	NC_021160.1	Ca_kabuli_chr01	1882530	GG	CC	1946718680
SNP_P4_644_1882611	NC_021160.1	Ca_kabuli_chr01	1882611	TT	CC	1946718682
SNP_P4_645_1883718	NC_021160.1	Ca_kabuli_chr01	1883718	TT	AA	1946718684
SNP_P4_646_1888214	NC_021160.1	Ca_kabuli_chr01	1888214	CC	AA	1946718686
SNP_P4_647_1888913	NC_021160.1	Ca_kabuli_chr01	1888913	AA	CC	1946718688
SNP_P4_648_1888924	NC_021160.1	Ca_kabuli_chr01	1888924	GG	AA	1946718690
SNP_P4_649_1889831	NC_021160.1	Ca_kabuli_chr01	1889831	GG	AA	1946718692
SNP_P4_650_1896828	NC_021160.1	Ca_kabuli_chr01	1896828	TT	AA	1946718694
SNP_P4_651_1898518	NC_021160.1	Ca_kabuli_chr01	1898518	AA	GG	1946718696
SNP_P4_652_1899701	NC_021160.1	Ca_kabuli_chr01	1899701	TT	AA	1946718698
SNP_P4_653_1901243	NC_021160.1	Ca_kabuli_chr01	1901243	GG	AA	1946718700
SNP_P4_654_1901283	NC_021160.1	Ca_kabuli_chr01	1901283	AA	GG	1946718703
SNP_P4_655_1901506	NC_021160.1	Ca_kabuli_chr01	1901506	TT	CC	1946718705
SNP_P4_656_1902178	NC_021160.1	Ca_kabuli_chr01	1902178	GG	AA	1946718707
SNP_P4_657_1902346	NC_021160.1	Ca_kabuli_chr01	1902346	AA	GG	1946718709
SNP_P4_658_1902640	NC_021160.1	Ca_kabuli_chr01	1902640	CC	TT	1946718711
SNP_P4_659_1902999	NC_021160.1	Ca_kabuli_chr01	1902999	CC	TT	1946718713
SNP_P4_660_1903137	NC_021160.1	Ca_kabuli_chr01	1903137	TT	CC	1946718715
SNP_P4_661_1903165	NC_021160.1	Ca_kabuli_chr01	1903165	TT	GG	1946718717
SNP_P4_662_1903277	NC_021160.1	Ca_kabuli_chr01	1903277	CC	TT	1946718719

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_663_1904365	NC_021160.1	Ca_kabuli_chr01	1904365	AA	GG	1946718721
SNP_P4_664_1904391	NC_021160.1	Ca_kabuli_chr01	1904391	GG	AA	1946718724
SNP_P4_665_1904956	NC_021160.1	Ca_kabuli_chr01	1904956	AA	GG	1946718726
SNP_P4_666_1907595	NC_021160.1	Ca_kabuli_chr01	1907595	AA	GG	1946718728
SNP_P4_668_1907937	NC_021160.1	Ca_kabuli_chr01	1907937	AA	TT	1946718730
SNP_P4_669_1907957	NC_021160.1	Ca_kabuli_chr01	1907957	CC	TT	1946718732
SNP_P4_672_1912504	NC_021160.1	Ca_kabuli_chr01	1912504	CC	TT	1946718734
SNP_P4_673_1912514	NC_021160.1	Ca_kabuli_chr01	1912514	TT	CC	1946718736
SNP_P4_674_1912749	NC_021160.1	Ca_kabuli_chr01	1912749	TT	AA	1946718738
SNP_P4_675_1913620	NC_021160.1	Ca_kabuli_chr01	1913620	AA	GG	1946718740
SNP_P4_676_1913667	NC_021160.1	Ca_kabuli_chr01	1913667	GG	AA	1946718742
SNP_P4_678_1914115	NC_021160.1	Ca_kabuli_chr01	1914115	AA	GG	1946718744
SNP_P4_679_1914403	NC_021160.1	Ca_kabuli_chr01	1914403	AA	CC	1946718746
SNP_P4_680_1914475	NC_021160.1	Ca_kabuli_chr01	1914475	CC	TT	1946718748
SNP_P4_681_1914639	NC_021160.1	Ca_kabuli_chr01	1914639	TT	AA	1946718750
SNP_P4_682_1914702	NC_021160.1	Ca_kabuli_chr01	1914702	TT	CC	1946718752
SNP_P4_683_1914775	NC_021160.1	Ca_kabuli_chr01	1914775	AA	GG	1946718754
SNP_P4_684_1914879	NC_021160.1	Ca_kabuli_chr01	1914879	TT	AA	1946718755
SNP_P4_685_1914990	NC_021160.1	Ca_kabuli_chr01	1914990	CC	TT	1946718757
SNP_P4_686_1915050	NC_021160.1	Ca_kabuli_chr01	1915050	GG	AA	1946718759
SNP_P4_687_1915166	NC_021160.1	Ca_kabuli_chr01	1915166	AA	GG	1946718761
SNP_P4_688_1915184	NC_021160.1	Ca_kabuli_chr01	1915184	TT	CC	1946718763
SNP_P4_690_1915307	NC_021160.1	Ca_kabuli_chr01	1915307	CC	TT	1946718765
SNP_P4_691_1915308	NC_021160.1	Ca_kabuli_chr01	1915308	GG	AA	1946718767
SNP_P4_692_1915762	NC_021160.1	Ca_kabuli_chr01	1915762	CC	GG	1946718769
SNP_P4_693_1915783	NC_021160.1	Ca_kabuli_chr01	1915783	CC	TT	1946718771
SNP_P4_694_1916096	NC_021160.1	Ca_kabuli_chr01	1916096	CC	AA	1946718773
SNP_P4_695_1916102	NC_021160.1	Ca_kabuli_chr01	1916102	CC	TT	1946718775
SNP_P4_696_1917563	NC_021160.1	Ca_kabuli_chr01	1917563	AA	TT	1946718777
SNP_P4_697_1922161	NC_021160.1	Ca_kabuli_chr01	1922161	CC	TT	1946718779
SNP_P4_698_1925368	NC_021160.1	Ca_kabuli_chr01	1925368	AA	CC	1946718781
SNP_P4_699_1926213	NC_021160.1	Ca_kabuli_chr01	1926213	AA	GG	1946718783
SNP_P4_700_1926377	NC_021160.1	Ca_kabuli_chr01	1926377	CC	TT	1946718785
SNP_P4_701_1926433	NC_021160.1	Ca_kabuli_chr01	1926433	AA	CC	1946718787
SNP_P4_702_1927368	NC_021160.1	Ca_kabuli_chr01	1927368	CC	GG	1946718789
SNP_P4_703_1928106	NC_021160.1	Ca_kabuli_chr01	1928106	CC	AA	1946718791
SNP_P4_704_1928397	NC_021160.1	Ca_kabuli_chr01	1928397	TT	CC	1946718793
SNP_P4_705_1928402	NC_021160.1	Ca_kabuli_chr01	1928402	TT	CC	1946718795
SNP_P4_707_1930725	NC_021160.1	Ca_kabuli_chr01	1930725	CC	TT	1946718797
SNP_P4_708_1933576	NC_021160.1	Ca_kabuli_chr01	1933576	CC	TT	1946718799
SNP_P4_709_1935988	NC_021160.1	Ca_kabuli_chr01	1935988	TT	CC	1946718801
SNP_P4_710_1936712	NC_021160.1	Ca_kabuli_chr01	1936712	TT	AA	1946718803

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_711_1937270	NC_021160.1	Ca_kabuli_chr01	1937270	AA	CC	1946718805
SNP_P4_712_1940906	NC_021160.1	Ca_kabuli_chr01	1940906	AA	GG	1946718807
SNP_P4_713_1940909	NC_021160.1	Ca_kabuli_chr01	1940909	CC	TT	1946718809
SNP_P4_714_1941964	NC_021160.1	Ca_kabuli_chr01	1941964	AA	CC	1946718811
SNP_P4_715_1944289	NC_021160.1	Ca_kabuli_chr01	1944289	AA	GG	1946718813
SNP_P4_716_1944290	NC_021160.1	Ca_kabuli_chr01	1944290	GG	CC	1946718815
SNP_P4_717_1944294	NC_021160.1	Ca_kabuli_chr01	1944294	AA	GG	1946718817
SNP_P4_719_1945067	NC_021160.1	Ca_kabuli_chr01	1945067	CC	TT	1946718819
SNP_P4_720_1949826	NC_021160.1	Ca_kabuli_chr01	1949826	AA	CC	1946718820
SNP_P4_721_1950170	NC_021160.1	Ca_kabuli_chr01	1950170	CC	TT	1946718822
SNP_P4_722_1950201	NC_021160.1	Ca_kabuli_chr01	1950201	AA	GG	1946718824
SNP_P4_723_1950336	NC_021160.1	Ca_kabuli_chr01	1950336	AA	GG	1946718826
SNP_P4_724_1952449	NC_021160.1	Ca_kabuli_chr01	1952449	AA	GG	1946718828
SNP_P4_725_1952498	NC_021160.1	Ca_kabuli_chr01	1952498	TT	AA	1946718830
SNP_P4_726_1953482	NC_021160.1	Ca_kabuli_chr01	1953482	TT	GG	1946718832
SNP_P4_727_1953634	NC_021160.1	Ca_kabuli_chr01	1953634	TT	CC	1946718834
SNP_P4_728_1953902	NC_021160.1	Ca_kabuli_chr01	1953902	AA	GG	1946718836
SNP_P4_729_1953910	NC_021160.1	Ca_kabuli_chr01	1953910	GG	AA	1946718838
SNP_P4_730_1954455	NC_021160.1	Ca_kabuli_chr01	1954455	AA	TT	1946718840
SNP_P4_731_1954456	NC_021160.1	Ca_kabuli_chr01	1954456	TT	CC	1946718842
SNP_P4_732_1955024	NC_021160.1	Ca_kabuli_chr01	1955024	CC	GG	1946718844
SNP_P4_733_1955917	NC_021160.1	Ca_kabuli_chr01	1955917	AA	GG	1946718846
SNP_P4_734_1960008	NC_021160.1	Ca_kabuli_chr01	1960008	CC	GG	1946718848
SNP_P4_735_1964306	NC_021160.1	Ca_kabuli_chr01	1964306	CC	TT	1946718850
SNP_P4_736_1964320	NC_021160.1	Ca_kabuli_chr01	1964320	AA	GG	1946718852
SNP_P4_737_1964324	NC_021160.1	Ca_kabuli_chr01	1964324	TT	CC	1946718854
SNP_P4_739_1964422	NC_021160.1	Ca_kabuli_chr01	1964422	CC	GG	1946718856
SNP_P4_740_1964434	NC_021160.1	Ca_kabuli_chr01	1964434	CC	TT	1946718858
SNP_P4_741_1965956	NC_021160.1	Ca_kabuli_chr01	1965956	GG	AA	1946718860
SNP_P4_742_1965979	NC_021160.1	Ca_kabuli_chr01	1965979	TT	GG	1946718862
SNP_P4_743_1966028	NC_021160.1	Ca_kabuli_chr01	1966028	CC	AA	1946718864
SNP_P4_744_1966074	NC_021160.1	Ca_kabuli_chr01	1966074	GG	AA	1946718866
SNP_P4_746_1966277	NC_021160.1	Ca_kabuli_chr01	1966277	GG	CC	1946718868
SNP_P4_748_1968173	NC_021160.1	Ca_kabuli_chr01	1968173	GG	AA	1946718870
SNP_P4_749_1969790	NC_021160.1	Ca_kabuli_chr01	1969790	TT	CC	1946718872
SNP_P4_750_1969815	NC_021160.1	Ca_kabuli_chr01	1969815	GG	AA	1946718874
SNP_P4_751_1969825	NC_021160.1	Ca_kabuli_chr01	1969825	AA	GG	1946718876
SNP_P4_752_1969881	NC_021160.1	Ca_kabuli_chr01	1969881	CC	TT	1946718878
SNP_P4_754_1970410	NC_021160.1	Ca_kabuli_chr01	1970410	AA	TT	1946718880
SNP_P4_755_1971011	NC_021160.1	Ca_kabuli_chr01	1971011	AA	GG	1946718882
SNP_P4_756_1971071	NC_021160.1	Ca_kabuli_chr01	1971071	CC	TT	1946718884
SNP_P4_757_1971167	NC_021160.1	Ca_kabuli_chr01	1971167	TT	CC	1946718886

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_759_1971601	NC_021160.1	Ca_kabuli_chr01	1971601	AA	TT	1946718888
SNP_P4_760_1971698	NC_021160.1	Ca_kabuli_chr01	1971698	CC	TT	1946718890
SNP_P4_761_1971713	NC_021160.1	Ca_kabuli_chr01	1971713	AA	TT	1946718892
SNP_P4_762_1971893	NC_021160.1	Ca_kabuli_chr01	1971893	CC	AA	1946718894
SNP_P4_763_1971910	NC_021160.1	Ca_kabuli_chr01	1971910	GG	TT	1946718896
SNP_P4_764_1971913	NC_021160.1	Ca_kabuli_chr01	1971913	AA	CC	1946718898
SNP_P4_766_1974276	NC_021160.1	Ca_kabuli_chr01	1974276	TT	GG	1946718900
SNP_P4_767_1974883	NC_021160.1	Ca_kabuli_chr01	1974883	TT	CC	1946718902
SNP_P4_768_1974884	NC_021160.1	Ca_kabuli_chr01	1974884	AA	GG	1946718904
SNP_P4_769_1975258	NC_021160.1	Ca_kabuli_chr01	1975258	CC	TT	1946718906
SNP_P4_770_1975796	NC_021160.1	Ca_kabuli_chr01	1975796	GG	TT	1946718908
SNP_P4_771_1977009	NC_021160.1	Ca_kabuli_chr01	1977009	AA	GG	1946718910
SNP_P4_772_1977191	NC_021160.1	Ca_kabuli_chr01	1977191	TT	AA	1946718912
SNP_P4_773_1977217	NC_021160.1	Ca_kabuli_chr01	1977217	AA	GG	1946718914
SNP_P4_774_1979140	NC_021160.1	Ca_kabuli_chr01	1979140	AA	CC	1946718917
SNP_P4_775_1979177	NC_021160.1	Ca_kabuli_chr01	1979177	AA	GG	1946718919
SNP_P4_776_1980356	NC_021160.1	Ca_kabuli_chr01	1980356	TT	GG	1946718921
SNP_P4_777_1980378	NC_021160.1	Ca_kabuli_chr01	1980378	TT	GG	1946718923
SNP_P4_778_1980382	NC_021160.1	Ca_kabuli_chr01	1980382	AA	CC	1946718925
SNP_P4_779_1980604	NC_021160.1	Ca_kabuli_chr01	1980604	AA	TT	1946718927
SNP_P4_780_1980689	NC_021160.1	Ca_kabuli_chr01	1980689	AA	GG	1946718929
SNP_P4_781_1980829	NC_021160.1	Ca_kabuli_chr01	1980829	GG	AA	1946718931
SNP_P4_782_1981199	NC_021160.1	Ca_kabuli_chr01	1981199	CC	AA	1946718933
SNP_P4_783_1981229	NC_021160.1	Ca_kabuli_chr01	1981229	AA	GG	1946718935
SNP_P4_784_1981231	NC_021160.1	Ca_kabuli_chr01	1981231	GG	AA	1946718937
SNP_P4_785_1981256	NC_021160.1	Ca_kabuli_chr01	1981256	GG	AA	1946718939
SNP_P4_786_1981388	NC_021160.1	Ca_kabuli_chr01	1981388	TT	AA	1946718941
SNP_P4_787_1981399	NC_021160.1	Ca_kabuli_chr01	1981399	AA	GG	1946718942
SNP_P4_789_1982440	NC_021160.1	Ca_kabuli_chr01	1982440	AA	GG	1946718944
SNP_P4_790_1982462	NC_021160.1	Ca_kabuli_chr01	1982462	GG	TT	1946718946
SNP_P4_791_1982778	NC_021160.1	Ca_kabuli_chr01	1982778	TT	GG	1946718948
SNP_P4_792_1982855	NC_021160.1	Ca_kabuli_chr01	1982855	TT	CC	1946718950
SNP_P4_793_1983566	NC_021160.1	Ca_kabuli_chr01	1983566	AA	GG	1946718952
SNP_P4_794_1983733	NC_021160.1	Ca_kabuli_chr01	1983733	CC	TT	1946718954
SNP_P4_795_1983957	NC_021160.1	Ca_kabuli_chr01	1983957	CC	TT	1946718956
SNP_P4_796_1983981	NC_021160.1	Ca_kabuli_chr01	1983981	TT	AA	1946718958
SNP_P4_797_1983991	NC_021160.1	Ca_kabuli_chr01	1983991	GG	AA	1946718960
SNP_P4_798_1984016	NC_021160.1	Ca_kabuli_chr01	1984016	CC	AA	1946718962
SNP_P4_799_1984028	NC_021160.1	Ca_kabuli_chr01	1984028	AA	CC	1946718964
SNP_P4_800_1984029	NC_021160.1	Ca_kabuli_chr01	1984029	AA	TT	1946718966
SNP_P4_801_1984301	NC_021160.1	Ca_kabuli_chr01	1984301	AA	TT	1946718968
SNP_P4_802_1984344	NC_021160.1	Ca_kabuli_chr01	1984344	AA	GG	1946718970

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_803_1984384	NC_021160.1	Ca_kabuli_chr01	1984384	TT	CC	1946718972
SNP_P4_804_1984386	NC_021160.1	Ca_kabuli_chr01	1984386	TT	AA	1946718973
SNP_P4_805_1984404	NC_021160.1	Ca_kabuli_chr01	1984404	AA	CC	1946718975
SNP_P4_806_1984500	NC_021160.1	Ca_kabuli_chr01	1984500	CC	TT	1946718977
SNP_P4_807_1984508	NC_021160.1	Ca_kabuli_chr01	1984508	TT	CC	1946718979
SNP_P4_808_1984589	NC_021160.1	Ca_kabuli_chr01	1984589	TT	CC	1946718981
SNP_P4_809_1984668	NC_021160.1	Ca_kabuli_chr01	1984668	CC	TT	1946718983
SNP_P4_810_1984797	NC_021160.1	Ca_kabuli_chr01	1984797	CC	TT	1946718985
SNP_P4_811_1984861	NC_021160.1	Ca_kabuli_chr01	1984861	GG	AA	1946718987
SNP_P4_812_1984927	NC_021160.1	Ca_kabuli_chr01	1984927	TT	CC	1946718989
SNP_P4_813_1984963	NC_021160.1	Ca_kabuli_chr01	1984963	CC	TT	1946718991
SNP_P4_814_1985850	NC_021160.1	Ca_kabuli_chr01	1985850	TT	GG	1946718993
SNP_P4_816_1986445	NC_021160.1	Ca_kabuli_chr01	1986445	CC	AA	1946718995
SNP_P4_817_1986593	NC_021160.1	Ca_kabuli_chr01	1986593	TT	CC	1946718997
SNP_P4_818_1986647	NC_021160.1	Ca_kabuli_chr01	1986647	AA	TT	1946718999
SNP_P4_820_1988129	NC_021160.1	Ca_kabuli_chr01	1988129	AA	TT	1946719001
SNP_P4_821_1988954	NC_021160.1	Ca_kabuli_chr01	1988954	TT	AA	1946719002
SNP_P4_823_1989099	NC_021160.1	Ca_kabuli_chr01	1989099	AA	CC	1946719004
SNP_P4_824_1989313	NC_021160.1	Ca_kabuli_chr01	1989313	GG	CC	1946719006
SNP_P4_825_1989336	NC_021160.1	Ca_kabuli_chr01	1989336	TT	CC	1946719008
SNP_P4_826_1989808	NC_021160.1	Ca_kabuli_chr01	1989808	CC	TT	1946719010
SNP_P4_828_1991152	NC_021160.1	Ca_kabuli_chr01	1991152	TT	CC	1946719012
SNP_P4_829_1992692	NC_021160.1	Ca_kabuli_chr01	1992692	AA	TT	1946719014
SNP_P4_830_1993458	NC_021160.1	Ca_kabuli_chr01	1993458	GG	AA	1946719016
SNP_P4_831_1993460	NC_021160.1	Ca_kabuli_chr01	1993460	TT	AA	1946719018
SNP_P4_832_1993653	NC_021160.1	Ca_kabuli_chr01	1993653	AA	GG	1946719020
SNP_P4_833_1993740	NC_021160.1	Ca_kabuli_chr01	1993740	CC	AA	1946719022
SNP_P4_834_1993952	NC_021160.1	Ca_kabuli_chr01	1993952	GG	AA	1946719024
SNP_P4_835_1994104	NC_021160.1	Ca_kabuli_chr01	1994104	TT	GG	1946719026
SNP_P4_836_1994983	NC_021160.1	Ca_kabuli_chr01	1994983	TT	CC	1946719028
SNP_P4_837_1995190	NC_021160.1	Ca_kabuli_chr01	1995190	AA	GG	1946719030
SNP_P4_838_1995217	NC_021160.1	Ca_kabuli_chr01	1995217	AA	GG	1946719032
SNP_P4_839_1996164	NC_021160.1	Ca_kabuli_chr01	1996164	AA	GG	1946719033
SNP_P4_840_1996192	NC_021160.1	Ca_kabuli_chr01	1996192	TT	GG	1946719035
SNP_P4_841_1996195	NC_021160.1	Ca_kabuli_chr01	1996195	AA	GG	1946719037
SNP_P4_842_1996204	NC_021160.1	Ca_kabuli_chr01	1996204	TT	CC	1946719039
SNP_P4_843_1996210	NC_021160.1	Ca_kabuli_chr01	1996210	GG	AA	1946719041
SNP_P4_844_1996220	NC_021160.1	Ca_kabuli_chr01	1996220	GG	CC	1946719043
SNP_P4_845_1996443	NC_021160.1	Ca_kabuli_chr01	1996443	CC	TT	1946719045
SNP_P4_846_1996705	NC_021160.1	Ca_kabuli_chr01	1996705	AA	GG	1946719047
SNP_P4_847_1996900	NC_021160.1	Ca_kabuli_chr01	1996900	AA	GG	1946719049
SNP_P4_848_1997580	NC_021160.1	Ca_kabuli_chr01	1997580	TT	GG	1946719051

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_849_1997585	NC_021160.1	Ca_kabuli_chr01	1997585	AA	GG	1946719053
SNP_P4_851_1998553	NC_021160.1	Ca_kabuli_chr01	1998553	GG	TT	1946719055
SNP_P4_852_1998743	NC_021160.1	Ca_kabuli_chr01	1998743	TT	AA	1946719057
SNP_P4_853_1998895	NC_021160.1	Ca_kabuli_chr01	1998895	CC	TT	1946719059
SNP_P4_855_1999142	NC_021160.1	Ca_kabuli_chr01	1999142	GG	AA	1946719061
SNP_P4_856_1999213	NC_021160.1	Ca_kabuli_chr01	1999213	AA	TT	1946719062
SNP_P4_858_1999743	NC_021160.1	Ca_kabuli_chr01	1999743	TT	GG	1946719064
SNP_P4_859_1999877	NC_021160.1	Ca_kabuli_chr01	1999877	TT	CC	1946719066
SNP_P4_860_1999908	NC_021160.1	Ca_kabuli_chr01	1999908	AA	TT	1946719067
SNP_P4_861_1999917	NC_021160.1	Ca_kabuli_chr01	1999917	AA	TT	1946719068
SNP_P4_862_1999925	NC_021160.1	Ca_kabuli_chr01	1999925	TT	AA	1946719069
SNP_P4_863_1999940	NC_021160.1	Ca_kabuli_chr01	1999940	GG	TT	1946719070
SNP_P4_865_2000241	NC_021160.1	Ca_kabuli_chr01	2000241	TT	CC	1946719071
SNP_P4_866_2000242	NC_021160.1	Ca_kabuli_chr01	2000242	CC	GG	1946719072
SNP_P4_867_2001361	NC_021160.1	Ca_kabuli_chr01	2001361	AA	CC	1946719073
SNP_P4_868_2001524	NC_021160.1	Ca_kabuli_chr01	2001524	GG	AA	1946719074
SNP_P4_869_2001574	NC_021160.1	Ca_kabuli_chr01	2001574	GG	TT	1946719075
SNP_P4_871_2001600	NC_021160.1	Ca_kabuli_chr01	2001600	TT	CC	1946719076
SNP_P4_872_2001749	NC_021160.1	Ca_kabuli_chr01	2001749	AA	CC	1946719077
SNP_P4_873_2001767	NC_021160.1	Ca_kabuli_chr01	2001767	CC	AA	1946719078
SNP_P4_875_2002140	NC_021160.1	Ca_kabuli_chr01	2002140	GG	CC	1946719079
SNP_P4_876_2003252	NC_021160.1	Ca_kabuli_chr01	2003252	TT	AA	1946719080
SNP_P4_877_2003480	NC_021160.1	Ca_kabuli_chr01	2003480	CC	TT	1946719081
SNP_P4_878_2003585	NC_021160.1	Ca_kabuli_chr01	2003585	TT	CC	1946719082
SNP_P4_879_2003586	NC_021160.1	Ca_kabuli_chr01	2003586	TT	GG	1946719083
SNP_P4_880_2004231	NC_021160.1	Ca_kabuli_chr01	2004231	TT	CC	1946719085
SNP_P4_881_2004256	NC_021160.1	Ca_kabuli_chr01	2004256	CC	AA	1946719087
SNP_P4_882_2004281	NC_021160.1	Ca_kabuli_chr01	2004281	AA	GG	1946719089
SNP_P4_885_2004925	NC_021160.1	Ca_kabuli_chr01	2004925	CC	TT	1946719091
SNP_P4_886_2005396	NC_021160.1	Ca_kabuli_chr01	2005396	GG	AA	1946719093
SNP_P4_887_2005450	NC_021160.1	Ca_kabuli_chr01	2005450	AA	TT	1946719095
SNP_P4_888_2006335	NC_021160.1	Ca_kabuli_chr01	2006335	CC	TT	1946719097
SNP_P4_889_2006576	NC_021160.1	Ca_kabuli_chr01	2006576	TT	CC	1946719099
SNP_P4_890_2006613	NC_021160.1	Ca_kabuli_chr01	2006613	CC	TT	1946719101
SNP_P4_891_2006618	NC_021160.1	Ca_kabuli_chr01	2006618	GG	AA	1946719103
SNP_P4_892_2006631	NC_021160.1	Ca_kabuli_chr01	2006631	TT	GG	1946719105
SNP_P4_893_2006636	NC_021160.1	Ca_kabuli_chr01	2006636	TT	AA	1946719107
SNP_P4_894_2006648	NC_021160.1	Ca_kabuli_chr01	2006648	CC	TT	1946719109
SNP_P4_896_2006837	NC_021160.1	Ca_kabuli_chr01	2006837	CC	TT	1946719111
SNP_P4_897_2006857	NC_021160.1	Ca_kabuli_chr01	2006857	TT	CC	1946719113
SNP_P4_898_2006938	NC_021160.1	Ca_kabuli_chr01	2006938	AA	CC	1946719116
SNP_P4_899_2006984	NC_021160.1	Ca_kabuli_chr01	2006984	TT	CC	1946719119

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_901_2007826	NC_021160.1	Ca_kabuli_chr01	2007826	TT	CC	1946719125
SNP_P4_902_2007845	NC_021160.1	Ca_kabuli_chr01	2007845	TT	CC	1946719127
SNP_P4_903_2007879	NC_021160.1	Ca_kabuli_chr01	2007879	TT	GG	1946719129
SNP_P4_904_2007903	NC_021160.1	Ca_kabuli_chr01	2007903	CC	TT	1946719131
SNP_P4_905_2007918	NC_021160.1	Ca_kabuli_chr01	2007918	CC	TT	1946719133
SNP_P4_906_2007928	NC_021160.1	Ca_kabuli_chr01	2007928	GG	TT	1946719135
SNP_P4_907_2008087	NC_021160.1	Ca_kabuli_chr01	2008087	AA	GG	1946719137
SNP_P4_908_2008088	NC_021160.1	Ca_kabuli_chr01	2008088	CC	TT	1946719139
SNP_P4_909_2008350	NC_021160.1	Ca_kabuli_chr01	2008350	TT	CC	1946719141
SNP_P4_910_2008687	NC_021160.1	Ca_kabuli_chr01	2008687	AA	CC	1946719143
SNP_P4_911_2008688	NC_021160.1	Ca_kabuli_chr01	2008688	AA	TT	1946719145
SNP_P4_912_2008916	NC_021160.1	Ca_kabuli_chr01	2008916	TT	AA	1946719147
SNP_P4_913_2011348	NC_021160.1	Ca_kabuli_chr01	2011348	TT	CC	1946719149
SNP_P4_914_2011569	NC_021160.1	Ca_kabuli_chr01	2011569	CC	TT	1946719151
SNP_P4_915_2011571	NC_021160.1	Ca_kabuli_chr01	2011571	GG	AA	1946719153
SNP_P4_916_2011818	NC_021160.1	Ca_kabuli_chr01	2011818	GG	TT	1946719155
SNP_P4_917_2011968	NC_021160.1	Ca_kabuli_chr01	2011968	AA	GG	1946719157
SNP_P4_918_2012740	NC_021160.1	Ca_kabuli_chr01	2012740	CC	GG	1946719159
SNP_P4_919_2014171	NC_021160.1	Ca_kabuli_chr01	2014171	AA	GG	1946719161
SNP_P4_920_2014176	NC_021160.1	Ca_kabuli_chr01	2014176	TT	GG	1946719163
SNP_P4_921_2014485	NC_021160.1	Ca_kabuli_chr01	2014485	AA	GG	1946719165
SNP_P4_923_2015657	NC_021160.1	Ca_kabuli_chr01	2015657	GG	AA	1946719167
SNP_P4_924_2015716	NC_021160.1	Ca_kabuli_chr01	2015716	CC	TT	1946719169
SNP_P4_925_2016096	NC_021160.1	Ca_kabuli_chr01	2016096	AA	CC	1946719171
SNP_P4_926_2016656	NC_021160.1	Ca_kabuli_chr01	2016656	CC	TT	1946719173
SNP_P4_927_2018189	NC_021160.1	Ca_kabuli_chr01	2018189	GG	AA	1946719175
SNP_P4_928_2018262	NC_021160.1	Ca_kabuli_chr01	2018262	CC	TT	1946719177
SNP_P4_930_2018337	NC_021160.1	Ca_kabuli_chr01	2018337	AA	TT	1946719179
SNP_P4_931_2018349	NC_021160.1	Ca_kabuli_chr01	2018349	AA	GG	1946719181
SNP_P4_932_2018355	NC_021160.1	Ca_kabuli_chr01	2018355	AA	TT	1946719183
SNP_P4_933_2018587	NC_021160.1	Ca_kabuli_chr01	2018587	TT	CC	1946719185
SNP_P4_935_2018710	NC_021160.1	Ca_kabuli_chr01	2018710	GG	AA	1946719187
SNP_P4_936_2018721	NC_021160.1	Ca_kabuli_chr01	2018721	AA	TT	1946719189
SNP_P4_937_2018929	NC_021160.1	Ca_kabuli_chr01	2018929	AA	GG	1946719191
SNP_P4_938_2018930	NC_021160.1	Ca_kabuli_chr01	2018930	TT	GG	1946719193
SNP_P4_939_2018968	NC_021160.1	Ca_kabuli_chr01	2018968	CC	TT	1946719195
SNP_P4_940_2019073	NC_021160.1	Ca_kabuli_chr01	2019073	CC	TT	1946719197
SNP_P4_941_2019088	NC_021160.1	Ca_kabuli_chr01	2019088	CC	TT	1946719199
SNP_P4_942_2019280	NC_021160.1	Ca_kabuli_chr01	2019280	CC	TT	1946719201
SNP_P4_943_2021732	NC_021160.1	Ca_kabuli_chr01	2021732	TT	AA	1946719203
SNP_P4_945_2023348	NC_021160.1	Ca_kabuli_chr01	2023348	CC	AA	1946719205

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_946_2023355	NC_021160.1	Ca_kabuli_chr01	2023355	AA	GG	1946719207
SNP_P4_947_2023579	NC_021160.1	Ca_kabuli_chr01	2023579	GG	AA	1946719209
SNP_P4_948_2023593	NC_021160.1	Ca_kabuli_chr01	2023593	CC	GG	1946719211
SNP_P4_949_2023811	NC_021160.1	Ca_kabuli_chr01	2023811	GG	CC	1946719214
SNP_P4_950_2023846	NC_021160.1	Ca_kabuli_chr01	2023846	CC	GG	1946719216
SNP_P4_951_2023868	NC_021160.1	Ca_kabuli_chr01	2023868	GG	TT	1946719218
SNP_P4_953_2023927	NC_021160.1	Ca_kabuli_chr01	2023927	TT	GG	1946719220
SNP_P4_954_2024412	NC_021160.1	Ca_kabuli_chr01	2024412	AA	GG	1946719222
SNP_P4_955_2024423	NC_021160.1	Ca_kabuli_chr01	2024423	AA	GG	1946719224
SNP_P4_956_2024442	NC_021160.1	Ca_kabuli_chr01	2024442	CC	TT	1946719226
SNP_P4_957_2024480	NC_021160.1	Ca_kabuli_chr01	2024480	GG	AA	1946719228
SNP_P4_958_2027546	NC_021160.1	Ca_kabuli_chr01	2027546	AA	GG	1946719230
SNP_P4_959_2028825	NC_021160.1	Ca_kabuli_chr01	2028825	AA	TT	1946719232
SNP_P4_960_2028884	NC_021160.1	Ca_kabuli_chr01	2028884	CC	TT	1946719234
SNP_P4_962_2030442	NC_021160.1	Ca_kabuli_chr01	2030442	CC	TT	1946719236
SNP_P4_963_2030453	NC_021160.1	Ca_kabuli_chr01	2030453	AA	CC	1946719238
SNP_P4_964_2030620	NC_021160.1	Ca_kabuli_chr01	2030620	TT	CC	1946719240
SNP_P4_965_2030630	NC_021160.1	Ca_kabuli_chr01	2030630	GG	AA	1946719242
SNP_P4_966_2030644	NC_021160.1	Ca_kabuli_chr01	2030644	GG	AA	1946719244
SNP_P4_967_2030650	NC_021160.1	Ca_kabuli_chr01	2030650	GG	AA	1946719246
SNP_P4_968_2032788	NC_021160.1	Ca_kabuli_chr01	2032788	AA	GG	1946719248
SNP_P4_969_2032805	NC_021160.1	Ca_kabuli_chr01	2032805	CC	TT	1946719250
SNP_P4_970_2042810	NC_021160.1	Ca_kabuli_chr01	2042810	CC	TT	1946719252
SNP_P4_971_2042894	NC_021160.1	Ca_kabuli_chr01	2042894	TT	AA	1946719254
SNP_P4_972_2043078	NC_021160.1	Ca_kabuli_chr01	2043078	AA	GG	1946719256
SNP_P4_973_2043455	NC_021160.1	Ca_kabuli_chr01	2043455	AA	TT	1946719258
SNP_P4_974_2043893	NC_021160.1	Ca_kabuli_chr01	2043893	TT	GG	1946719260
SNP_P4_975_2044474	NC_021160.1	Ca_kabuli_chr01	2044474	AA	GG	1946719262
SNP_P4_976_2044512	NC_021160.1	Ca_kabuli_chr01	2044512	AA	GG	1946719264
SNP_P4_977_2044684	NC_021160.1	Ca_kabuli_chr01	2044684	GG	AA	1946719266
SNP_P4_978_2044693	NC_021160.1	Ca_kabuli_chr01	2044693	AA	GG	1946719268
SNP_P4_979_2044717	NC_021160.1	Ca_kabuli_chr01	2044717	TT	AA	1946719270
SNP_P4_980_2044723	NC_021160.1	Ca_kabuli_chr01	2044723	CC	TT	1946719272
SNP_P4_981_2049729	NC_021160.1	Ca_kabuli_chr01	2049729	GG	AA	1946719274
SNP_P4_982_2049763	NC_021160.1	Ca_kabuli_chr01	2049763	CC	TT	1946719276
SNP_P4_983_2049766	NC_021160.1	Ca_kabuli_chr01	2049766	AA	CC	1946719278
SNP_P4_984_2049767	NC_021160.1	Ca_kabuli_chr01	2049767	TT	CC	1946719280
SNP_P4_985_2049859	NC_021160.1	Ca_kabuli_chr01	2049859	GG	AA	1946719282
SNP_P4_986_2049887	NC_021160.1	Ca_kabuli_chr01	2049887	AA	TT	1946719284
SNP_P4_987_2049927	NC_021160.1	Ca_kabuli_chr01	2049927	CC	TT	1946719286
SNP_P4_988_2050835	NC_021160.1	Ca_kabuli_chr01	2050835	GG	TT	1946719288
SNP_P4_989_2051225	NC_021160.1	Ca_kabuli_chr01	2051225	GG	TT	1946719290

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_991_2054795	NC_021160.1	Ca_kabuli_chr01	2054795	TT	GG	1946719294
SNP_P4_992_2054859	NC_021160.1	Ca_kabuli_chr01	2054859	TT	GG	1946719296
SNP_P4_993_2054871	NC_021160.1	Ca_kabuli_chr01	2054871	TT	CC	1946719298
SNP_P4_994_2055193	NC_021160.1	Ca_kabuli_chr01	2055193	GG	AA	1946719300
SNP_P4_995_2055194	NC_021160.1	Ca_kabuli_chr01	2055194	CC	TT	1946719302
SNP_P4_996_2055311	NC_021160.1	Ca_kabuli_chr01	2055311	GG	AA	1946719304
SNP_P4_997_2055316	NC_021160.1	Ca_kabuli_chr01	2055316	CC	TT	1946719306
SNP_P4_998_2055318	NC_021160.1	Ca_kabuli_chr01	2055318	GG	AA	1946719308
SNP_P4_999_2055474	NC_021160.1	Ca_kabuli_chr01	2055474	AA	GG	1946719310
SNP_P4_1000_2055540	NC_021160.1	Ca_kabuli_chr01	2055540	CC	TT	1946719312
SNP_P4_1001_2055558	NC_021160.1	Ca_kabuli_chr01	2055558	CC	AA	1946719314
SNP_P4_1003_2055920	NC_021160.1	Ca_kabuli_chr01	2055920	TT	GG	1946719316
SNP_P4_1004_2056260	NC_021160.1	Ca_kabuli_chr01	2056260	TT	AA	1946719318
SNP_P4_1005_2056326	NC_021160.1	Ca_kabuli_chr01	2056326	AA	GG	1946719320
SNP_P4_1006_2056581	NC_021160.1	Ca_kabuli_chr01	2056581	GG	AA	1946719323
SNP_P4_1007_2056708	NC_021160.1	Ca_kabuli_chr01	2056708	CC	TT	1946719325
SNP_P4_1008_2056806	NC_021160.1	Ca_kabuli_chr01	2056806	AA	GG	1946719327
SNP_P4_1009_2057134	NC_021160.1	Ca_kabuli_chr01	2057134	AA	GG	1946719329
SNP_P4_1010_2057142	NC_021160.1	Ca_kabuli_chr01	2057142	AA	GG	1946719331
SNP_P4_1012_2057389	NC_021160.1	Ca_kabuli_chr01	2057389	CC	TT	1946719333
SNP_P4_1013_2057430	NC_021160.1	Ca_kabuli_chr01	2057430	CC	TT	1946719335
SNP_P4_1014_2058526	NC_021160.1	Ca_kabuli_chr01	2058526	GG	AA	1946719337
SNP_P4_1015_2058541	NC_021160.1	Ca_kabuli_chr01	2058541	GG	AA	1946719339
SNP_P4_1017_2058749	NC_021160.1	Ca_kabuli_chr01	2058749	AA	GG	1946719341
SNP_P4_1019_2058874	NC_021160.1	Ca_kabuli_chr01	2058874	TT	GG	1946719342
SNP_P4_1020_2058965	NC_021160.1	Ca_kabuli_chr01	2058965	CC	TT	1946719344
SNP_P4_1021_2058969	NC_021160.1	Ca_kabuli_chr01	2058969	GG	AA	1946719346
SNP_P4_1022_2058988	NC_021160.1	Ca_kabuli_chr01	2058988	AA	GG	1946719348
SNP_P4_1023_2059011	NC_021160.1	Ca_kabuli_chr01	2059011	GG	AA	1946719350
SNP_P4_1024_2059032	NC_021160.1	Ca_kabuli_chr01	2059032	GG	AA	1946719352
SNP_P4_1025_2059065	NC_021160.1	Ca_kabuli_chr01	2059065	GG	AA	1946719354
SNP_P4_1026_2059085	NC_021160.1	Ca_kabuli_chr01	2059085	GG	TT	1946719356
SNP_P4_1027_2059357	NC_021160.1	Ca_kabuli_chr01	2059357	CC	TT	1946719358
SNP_P4_1028_2059365	NC_021160.1	Ca_kabuli_chr01	2059365	AA	GG	1946719360
SNP_P4_1029_2066014	NC_021160.1	Ca_kabuli_chr01	2066014	CC	TT	1946719362
SNP_P4_1030_2066160	NC_021160.1	Ca_kabuli_chr01	2066160	TT	GG	1946719364
SNP_P4_1031_2066214	NC_021160.1	Ca_kabuli_chr01	2066214	AA	GG	1946719366
SNP_P4_1032_2067552	NC_021160.1	Ca_kabuli_chr01	2067552	GG	TT	1946719368
SNP_P4_1033_2067569	NC_021160.1	Ca_kabuli_chr01	2067569	TT	GG	1946719370
SNP_P4_1034_2067974	NC_021160.1	Ca_kabuli_chr01	2067974	TT	GG	1946719372
SNP_P4_1036_2071879	NC_021160.1	Ca_kabuli_chr01	2071879	CC	TT	1946719374

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_1037_2072806	NC_021160.1	Ca_kabuli_chr01	2072806	CC	TT	1946719376
SNP_P4_1038_2073062	NC_021160.1	Ca_kabuli_chr01	2073062	GG	AA	1946719378
SNP_P4_1039_2073955	NC_021160.1	Ca_kabuli_chr01	2073955	AA	GG	1946719380
SNP_P4_1041_2074332	NC_021160.1	Ca_kabuli_chr01	2074332	AA	GG	1946719382
SNP_P4_1042_2074334	NC_021160.1	Ca_kabuli_chr01	2074334	CC	GG	1946719384
SNP_P4_1043_2074820	NC_021160.1	Ca_kabuli_chr01	2074820	TT	AA	1946719386
SNP_P4_1044_2074826	NC_021160.1	Ca_kabuli_chr01	2074826	CC	TT	1946719388
SNP_P4_1045_2074830	NC_021160.1	Ca_kabuli_chr01	2074830	AA	GG	1946719390
SNP_P4_1046_2080686	NC_021160.1	Ca_kabuli_chr01	2080686	CC	AA	1946719392
SNP_P4_1047_2080876	NC_021160.1	Ca_kabuli_chr01	2080876	CC	TT	1946719394
SNP_P4_1048_2081015	NC_021160.1	Ca_kabuli_chr01	2081015	GG	AA	1946719396
SNP_P4_1049_2081036	NC_021160.1	Ca_kabuli_chr01	2081036	CC	TT	1946719398
SNP_P4_1050_2081050	NC_021160.1	Ca_kabuli_chr01	2081050	AA	CC	1946719401
SNP_P4_1051_2081797	NC_021160.1	Ca_kabuli_chr01	2081797	TT	CC	1946719403
SNP_P4_1052_2081815	NC_021160.1	Ca_kabuli_chr01	2081815	CC	TT	1946719405
SNP_P4_1053_2081846	NC_021160.1	Ca_kabuli_chr01	2081846	CC	AA	1946719407
SNP_P4_1054_2082093	NC_021160.1	Ca_kabuli_chr01	2082093	AA	TT	1946719409
SNP_P4_1055_2082801	NC_021160.1	Ca_kabuli_chr01	2082801	AA	GG	1946719411
SNP_P4_1056_2083003	NC_021160.1	Ca_kabuli_chr01	2083003	CC	GG	1946719413
SNP_P4_1057_2085321	NC_021160.1	Ca_kabuli_chr01	2085321	CC	AA	1946719415
SNP_P4_1058_2085395	NC_021160.1	Ca_kabuli_chr01	2085395	GG	AA	1946719417
SNP_P4_1060_2085445	NC_021160.1	Ca_kabuli_chr01	2085445	AA	GG	1946719419
SNP_P4_1061_2085661	NC_021160.1	Ca_kabuli_chr01	2085661	CC	TT	1946719421
SNP_P4_1062_2085688	NC_021160.1	Ca_kabuli_chr01	2085688	GG	AA	1946719423
SNP_P4_1063_2085820	NC_021160.1	Ca_kabuli_chr01	2085820	TT	CC	1946719425
SNP_P4_1064_2085839	NC_021160.1	Ca_kabuli_chr01	2085839	GG	AA	1946719427
SNP_P4_1066_2085910	NC_021160.1	Ca_kabuli_chr01	2085910	CC	AA	1946719430
SNP_P4_1067_2085937	NC_021160.1	Ca_kabuli_chr01	2085937	AA	GG	1946719432
SNP_P4_1070_2089075	NC_021160.1	Ca_kabuli_chr01	2089075	TT	AA	1946719434
SNP_P4_1071_2090531	NC_021160.1	Ca_kabuli_chr01	2090531	CC	GG	1946719436
SNP_P4_1072_2090848	NC_021160.1	Ca_kabuli_chr01	2090848	AA	GG	1946719438
SNP_P4_1073_2090872	NC_021160.1	Ca_kabuli_chr01	2090872	GG	AA	1946719440
SNP_P4_1075_2091350	NC_021160.1	Ca_kabuli_chr01	2091350	TT	CC	1946719442
SNP_P4_1076_2091561	NC_021160.1	Ca_kabuli_chr01	2091561	GG	CC	1946719444
SNP_P4_1077_2095150	NC_021160.1	Ca_kabuli_chr01	2095150	GG	TT	1946719446
SNP_P4_1078_2095300	NC_021160.1	Ca_kabuli_chr01	2095300	AA	TT	1946719448
SNP_P4_1079_2095325	NC_021160.1	Ca_kabuli_chr01	2095325	AA	GG	1946719450
SNP_P4_1080_2095407	NC_021160.1	Ca_kabuli_chr01	2095407	GG	TT	1946719452
SNP_P4_1081_2095538	NC_021160.1	Ca_kabuli_chr01	2095538	AA	GG	1946719454
SNP_P4_1082_2095918	NC_021160.1	Ca_kabuli_chr01	2095918	AA	GG	1946719456
SNP_P4_1083_2097231	NC_021160.1	Ca_kabuli_chr01	2097231	TT	CC	1946719458
SNP_P4_1085_2098364	NC_021160.1	Ca_kabuli_chr01	2098364	CC	TT	1946719460

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_1086_2098906	NC_021160.1	Ca_kabuli_chr01	2098906	GG	CC	1946719462
SNP_P4_1087_2098911	NC_021160.1	Ca_kabuli_chr01	2098911	AA	TT	1946719464
SNP_P4_1088_2099029	NC_021160.1	Ca_kabuli_chr01	2099029	GG	TT	1946719466
SNP_P4_1089_2099708	NC_021160.1	Ca_kabuli_chr01	2099708	TT	CC	1946719468
SNP_P4_1091_2099966	NC_021160.1	Ca_kabuli_chr01	2099966	GG	AA	1946719471
SNP_P4_1092_2100735	NC_021160.1	Ca_kabuli_chr01	2100735	TT	CC	1946719473
SNP_P4_1093_2100766	NC_021160.1	Ca_kabuli_chr01	2100766	AA	GG	1946719475
SNP_P4_1094_2101046	NC_021160.1	Ca_kabuli_chr01	2101046	TT	AA	1946719477
SNP_P4_1095_2106219	NC_021160.1	Ca_kabuli_chr01	2106219	AA	GG	1946719479
SNP_P4_1098_2113196	NC_021160.1	Ca_kabuli_chr01	2113196	TT	AA	1946719481
SNP_P4_1099_2113204	NC_021160.1	Ca_kabuli_chr01	2113204	AA	GG	1946719483
SNP_P4_1100_2113229	NC_021160.1	Ca_kabuli_chr01	2113229	AA	GG	1946719485
SNP_P4_1101_2114162	NC_021160.1	Ca_kabuli_chr01	2114162	TT	CC	1946719487
SNP_P4_1102_2114820	NC_021160.1	Ca_kabuli_chr01	2114820	TT	CC	1946719489
SNP_P4_1104_2115116	NC_021160.1	Ca_kabuli_chr01	2115116	GG	CC	1946719491
SNP_P4_1105_2115154	NC_021160.1	Ca_kabuli_chr01	2115154	CC	TT	1946719493
SNP_P4_1106_2115185	NC_021160.1	Ca_kabuli_chr01	2115185	CC	TT	1946719495
SNP_P4_1107_2115330	NC_021160.1	Ca_kabuli_chr01	2115330	CC	TT	1946719497
SNP_P4_1108_2115429	NC_021160.1	Ca_kabuli_chr01	2115429	TT	AA	1946719499
SNP_P4_1109_2115485	NC_021160.1	Ca_kabuli_chr01	2115485	TT	CC	1946719501
SNP_P4_1110_2116491	NC_021160.1	Ca_kabuli_chr01	2116491	TT	AA	1946719503
SNP_P4_1111_2116504	NC_021160.1	Ca_kabuli_chr01	2116504	CC	TT	1946719505
SNP_P4_1112_2116539	NC_021160.1	Ca_kabuli_chr01	2116539	GG	AA	1946719507
SNP_P4_1113_2116540	NC_021160.1	Ca_kabuli_chr01	2116540	AA	GG	1946719509
SNP_P4_1115_2116613	NC_021160.1	Ca_kabuli_chr01	2116613	AA	TT	1946719511
SNP_P4_1116_2117635	NC_021160.1	Ca_kabuli_chr01	2117635	GG	AA	1946719513
SNP_P4_1117_2119014	NC_021160.1	Ca_kabuli_chr01	2119014	GG	TT	1946719515
SNP_P4_1118_2119065	NC_021160.1	Ca_kabuli_chr01	2119065	TT	GG	1946719517
SNP_P4_1119_2119069	NC_021160.1	Ca_kabuli_chr01	2119069	TT	GG	1946719519
SNP_P4_1120_2119159	NC_021160.1	Ca_kabuli_chr01	2119159	TT	CC	1946719521
SNP_P4_1121_2119208	NC_021160.1	Ca_kabuli_chr01	2119208	CC	TT	1946719523
SNP_P4_1122_2119239	NC_021160.1	Ca_kabuli_chr01	2119239	TT	AA	1946719525
SNP_P4_1123_2119246	NC_021160.1	Ca_kabuli_chr01	2119246	GG	AA	1946719527
SNP_P4_1124_2119284	NC_021160.1	Ca_kabuli_chr01	2119284	GG	TT	1946719529
SNP_P4_1125_2119290	NC_021160.1	Ca_kabuli_chr01	2119290	GG	AA	1946719531
SNP_P4_1126_2119310	NC_021160.1	Ca_kabuli_chr01	2119310	AA	GG	1946719533
SNP_P4_1127_2119311	NC_021160.1	Ca_kabuli_chr01	2119311	TT	AA	1946719535
SNP_P4_1128_2119327	NC_021160.1	Ca_kabuli_chr01	2119327	GG	TT	1946719537
SNP_P4_1129_2119475	NC_021160.1	Ca_kabuli_chr01	2119475	TT	CC	1946719539
SNP_P4_1130_2119597	NC_021160.1	Ca_kabuli_chr01	2119597	GG	TT	1946719541
SNP_P4_1131_2119604	NC_021160.1	Ca_kabuli_chr01	2119604	GG	AA	1946719543
SNP_P4_1132_2120028	NC_021160.1	Ca_kabuli_chr01	2120028	GG	AA	1946719545

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_1134_2120241	NC_021160.1	Ca_kabuli_chr01	2120241	TT	CC	1946719550
SNP_P4_1135_2120475	NC_021160.1	Ca_kabuli_chr01	2120475	CC	AA	1946719552
SNP_P4_1136_2120536	NC_021160.1	Ca_kabuli_chr01	2120536	AA	GG	1946719554
SNP_P4_1138_2120573	NC_021160.1	Ca_kabuli_chr01	2120573	GG	CC	1946719556
SNP_P4_1139_2121207	NC_021160.1	Ca_kabuli_chr01	2121207	CC	GG	1946719558
SNP_P4_1140_2121211	NC_021160.1	Ca_kabuli_chr01	2121211	GG	AA	1946719560
SNP_P4_1141_2121216	NC_021160.1	Ca_kabuli_chr01	2121216	TT	GG	1946719562
SNP_P4_1142_2121236	NC_021160.1	Ca_kabuli_chr01	2121236	TT	CC	1946719564
SNP_P4_1143_2121237	NC_021160.1	Ca_kabuli_chr01	2121237	TT	GG	1946719566
SNP_P4_1144_2121258	NC_021160.1	Ca_kabuli_chr01	2121258	AA	TT	1946719568
SNP_P4_1145_2121319	NC_021160.1	Ca_kabuli_chr01	2121319	GG	AA	1946719571
SNP_P4_1146_2121359	NC_021160.1	Ca_kabuli_chr01	2121359	CC	TT	1946719573
SNP_P4_1147_2121380	NC_021160.1	Ca_kabuli_chr01	2121380	AA	TT	1946719575
SNP_P4_1148_2124581	NC_021160.1	Ca_kabuli_chr01	2124581	AA	GG	1946719577
SNP_P4_1149_2126286	NC_021160.1	Ca_kabuli_chr01	2126286	AA	GG	1946719579
SNP_P4_1151_2130846	NC_021160.1	Ca_kabuli_chr01	2130846	GG	AA	1946719581
SNP_P4_1152_2131107	NC_021160.1	Ca_kabuli_chr01	2131107	TT	GG	1946719583
SNP_P4_1154_2131625	NC_021160.1	Ca_kabuli_chr01	2131625	GG	AA	1946719585
SNP_P4_1155_2131662	NC_021160.1	Ca_kabuli_chr01	2131662	TT	CC	1946719587
SNP_P4_1158_2131940	NC_021160.1	Ca_kabuli_chr01	2131940	GG	AA	1946719589
SNP_P4_1159_2131955	NC_021160.1	Ca_kabuli_chr01	2131955	TT	GG	1946719591
SNP_P4_1160_2131997	NC_021160.1	Ca_kabuli_chr01	2131997	GG	AA	1946719593
SNP_P4_1162_2132110	NC_021160.1	Ca_kabuli_chr01	2132110	TT	CC	1946719595
SNP_P4_1163_2132115	NC_021160.1	Ca_kabuli_chr01	2132115	GG	TT	1946719597
SNP_P4_1164_2132123	NC_021160.1	Ca_kabuli_chr01	2132123	TT	GG	1946719599
SNP_P4_1165_2132153	NC_021160.1	Ca_kabuli_chr01	2132153	CC	TT	1946719601
SNP_P4_1166_2132206	NC_021160.1	Ca_kabuli_chr01	2132206	CC	TT	1946719603
SNP_P4_1167_2132219	NC_021160.1	Ca_kabuli_chr01	2132219	GG	AA	1946719605
SNP_P4_1168_2133026	NC_021160.1	Ca_kabuli_chr01	2133026	AA	GG	1946719607
SNP_P4_1169_2133055	NC_021160.1	Ca_kabuli_chr01	2133055	GG	AA	1946719609
SNP_P4_1170_2133070	NC_021160.1	Ca_kabuli_chr01	2133070	CC	TT	1946719611
SNP_P4_1171_2133193	NC_021160.1	Ca_kabuli_chr01	2133193	AA	GG	1946719613
SNP_P4_1172_2133210	NC_021160.1	Ca_kabuli_chr01	2133210	AA	GG	1946719615
SNP_P4_1173_2133225	NC_021160.1	Ca_kabuli_chr01	2133225	GG	TT	1946719617
SNP_P4_1174_2133262	NC_021160.1	Ca_kabuli_chr01	2133262	GG	AA	1946719619
SNP_P4_1175_2133362	NC_021160.1	Ca_kabuli_chr01	2133362	TT	CC	1946719621
SNP_P4_1176_2133566	NC_021160.1	Ca_kabuli_chr01	2133566	AA	TT	1946719623
SNP_P4_1177_2134636	NC_021160.1	Ca_kabuli_chr01	2134636	GG	AA	1946719625
SNP_P4_1178_2134671	NC_021160.1	Ca_kabuli_chr01	2134671	GG	TT	1946719627
SNP_P4_1179_2134733	NC_021160.1	Ca_kabuli_chr01	2134733	GG	TT	1946719629
SNP_P4_1180_2134784	NC_021160.1	Ca_kabuli_chr01	2134784	CC	TT	1946719631

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_1182_2134872	NC_021160.1	Ca_kabuli_chr01	2134872	TT	CC	1946719635
SNP_P4_1183_2134876	NC_021160.1	Ca_kabuli_chr01	2134876	GG	TT	1946719637
SNP_P4_1184_2134916	NC_021160.1	Ca_kabuli_chr01	2134916	TT	AA	1946719639
SNP_P4_1185_2134919	NC_021160.1	Ca_kabuli_chr01	2134919	AA	TT	1946719641
SNP_P4_1186_2134941	NC_021160.1	Ca_kabuli_chr01	2134941	CC	AA	1946719643
SNP_P4_1187_2134961	NC_021160.1	Ca_kabuli_chr01	2134961	GG	AA	1946719645
SNP_P4_1188_2134993	NC_021160.1	Ca_kabuli_chr01	2134993	GG	AA	1946719647
SNP_P4_1189_2135080	NC_021160.1	Ca_kabuli_chr01	2135080	CC	AA	1946719649
SNP_P4_1190_2135082	NC_021160.1	Ca_kabuli_chr01	2135082	GG	CC	1946719651
SNP_P4_1192_2137960	NC_021160.1	Ca_kabuli_chr01	2137960	AA	GG	1946719653
SNP_P4_1193_2139666	NC_021160.1	Ca_kabuli_chr01	2139666	GG	CC	1946719655
SNP_P4_1194_2139711	NC_021160.1	Ca_kabuli_chr01	2139711	CC	TT	1946719657
SNP_P4_1195_2139824	NC_021160.1	Ca_kabuli_chr01	2139824	TT	GG	1946719659
SNP_P4_1196_2139854	NC_021160.1	Ca_kabuli_chr01	2139854	CC	TT	1946719661
SNP_P4_1197_2140192	NC_021160.1	Ca_kabuli_chr01	2140192	AA	CC	1946719663
SNP_P4_1198_2153309	NC_021160.1	Ca_kabuli_chr01	2153309	TT	CC	1946719665
SNP_P4_1199_2165951	NC_021160.1	Ca_kabuli_chr01	2165951	CC	AA	1946719667
SNP_P4_1200_2185160	NC_021160.1	Ca_kabuli_chr01	2185160	TT	GG	1946719669
SNP_P4_1201_2196219	NC_021160.1	Ca_kabuli_chr01	2196219	TT	AA	1946719671
SNP_P4_1202_2199559	NC_021160.1	Ca_kabuli_chr01	2199559	TT	CC	1946719673
SNP_P4_1204_2215541	NC_021160.1	Ca_kabuli_chr01	2215541	GG	CC	1946719675
SNP_P4_1205_2215542	NC_021160.1	Ca_kabuli_chr01	2215542	TT	AA	1946719677
SNP_P4_1206_2215554	NC_021160.1	Ca_kabuli_chr01	2215554	GG	TT	1946719679
SNP_P4_1207_2215558	NC_021160.1	Ca_kabuli_chr01	2215558	TT	CC	1946719681
SNP_P4_1208_2215586	NC_021160.1	Ca_kabuli_chr01	2215586	GG	AA	1946719683
SNP_P4_1209_2215713	NC_021160.1	Ca_kabuli_chr01	2215713	AA	TT	1946719685
SNP_P4_1210_2216539	NC_021160.1	Ca_kabuli_chr01	2216539	CC	AA	1946719687
SNP_P4_1211_2216547	NC_021160.1	Ca_kabuli_chr01	2216547	GG	CC	1946719689
SNP_P4_1212_2217570	NC_021160.1	Ca_kabuli_chr01	2217570	AA	TT	1946719691
SNP_P4_1215_2222062	NC_021160.1	Ca_kabuli_chr01	2222062	GG	AA	1946719693
SNP_P4_1216_2222075	NC_021160.1	Ca_kabuli_chr01	2222075	TT	CC	1946719695
SNP_P4_1217_2222085	NC_021160.1	Ca_kabuli_chr01	2222085	CC	AA	1946719697
SNP_P4_1219_2224249	NC_021160.1	Ca_kabuli_chr01	2224249	AA	GG	1946719699
SNP_P4_1220_2224498	NC_021160.1	Ca_kabuli_chr01	2224498	CC	TT	1946719702
SNP_P4_1221_2224760	NC_021160.1	Ca_kabuli_chr01	2224760	CC	TT	1946719704
SNP_P4_1222_2225583	NC_021160.1	Ca_kabuli_chr01	2225583	CC	GG	1946719706
SNP_P4_1223_2225676	NC_021160.1	Ca_kabuli_chr01	2225676	AA	GG	1946719708
SNP_P4_1224_2225735	NC_021160.1	Ca_kabuli_chr01	2225735	TT	AA	1946719710
SNP_P4_1225_2226972	NC_021160.1	Ca_kabuli_chr01	2226972	TT	CC	1946719712
SNP_P4_1226_2227206	NC_021160.1	Ca_kabuli_chr01	2227206	TT	CC	1946719714
SNP_P4_1227_2227962	NC_021160.1	Ca_kabuli_chr01	2227962	GG	TT	1946719716

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_1229_2228322	NC_021160.1	Ca_kabuli_chr01	2228322	GG	AA	1946719720
SNP_P4_1230_2228323	NC_021160.1	Ca_kabuli_chr01	2228323	GG	TT	1946719722
SNP_P4_1231_2228324	NC_021160.1	Ca_kabuli_chr01	2228324	TT	AA	1946719724
SNP_P4_1232_2228429	NC_021160.1	Ca_kabuli_chr01	2228429	GG	TT	1946719726
SNP_P4_1233_2228451	NC_021160.1	Ca_kabuli_chr01	2228451	AA	TT	1946719728
SNP_P4_1234_2228545	NC_021160.1	Ca_kabuli_chr01	2228545	GG	AA	1946719730
SNP_P4_1235_2228596	NC_021160.1	Ca_kabuli_chr01	2228596	TT	CC	1946719732
SNP_P4_1236_2228607	NC_021160.1	Ca_kabuli_chr01	2228607	TT	AA	1946719734
SNP_P4_1237_2228943	NC_021160.1	Ca_kabuli_chr01	2228943	CC	TT	1946719736
SNP_P4_1238_2228958	NC_021160.1	Ca_kabuli_chr01	2228958	GG	AA	1946719738
SNP_P4_1239_2230258	NC_021160.1	Ca_kabuli_chr01	2230258	AA	GG	1946719739
SNP_P4_1240_2230563	NC_021160.1	Ca_kabuli_chr01	2230563	GG	AA	1946719741
SNP_P4_1241_2230689	NC_021160.1	Ca_kabuli_chr01	2230689	GG	TT	1946719743
SNP_P4_1242_2230844	NC_021160.1	Ca_kabuli_chr01	2230844	TT	AA	1946719745
SNP_P4_1243_2230865	NC_021160.1	Ca_kabuli_chr01	2230865	GG	AA	1946719747
SNP_P4_1244_2230887	NC_021160.1	Ca_kabuli_chr01	2230887	CC	TT	1946719749
SNP_P4_1245_2230951	NC_021160.1	Ca_kabuli_chr01	2230951	TT	CC	1946719751
SNP_P4_1246_2231417	NC_021160.1	Ca_kabuli_chr01	2231417	GG	AA	1946719753
SNP_P4_1247_2231618	NC_021160.1	Ca_kabuli_chr01	2231618	AA	GG	1946719756
SNP_P4_1248_2231681	NC_021160.1	Ca_kabuli_chr01	2231681	CC	TT	1946719758
SNP_P4_1249_2231683	NC_021160.1	Ca_kabuli_chr01	2231683	GG	AA	1946719760
SNP_P4_1250_2231939	NC_021160.1	Ca_kabuli_chr01	2231939	TT	GG	1946719762
SNP_P4_1251_2232436	NC_021160.1	Ca_kabuli_chr01	2232436	CC	AA	1946719764
SNP_P4_1252_2232438	NC_021160.1	Ca_kabuli_chr01	2232438	AA	TT	1946719766
SNP_P4_1254_2233207	NC_021160.1	Ca_kabuli_chr01	2233207	AA	GG	1946719768
SNP_P4_1255_2235641	NC_021160.1	Ca_kabuli_chr01	2235641	TT	AA	1946719770
SNP_P4_1256_2235652	NC_021160.1	Ca_kabuli_chr01	2235652	GG	TT	1946719772
SNP_P4_1257_2235820	NC_021160.1	Ca_kabuli_chr01	2235820	CC	GG	1946719774
SNP_P4_1258_2235826	NC_021160.1	Ca_kabuli_chr01	2235826	TT	CC	1946719776
SNP_P4_1259_2236347	NC_021160.1	Ca_kabuli_chr01	2236347	AA	TT	1946719778
SNP_P4_1260_2236495	NC_021160.1	Ca_kabuli_chr01	2236495	GG	TT	1946719780
SNP_P4_1261_2236501	NC_021160.1	Ca_kabuli_chr01	2236501	TT	CC	1946719782
SNP_P4_1262_2236690	NC_021160.1	Ca_kabuli_chr01	2236690	GG	CC	1946719784
SNP_P4_1263_2237388	NC_021160.1	Ca_kabuli_chr01	2237388	GG	AA	1946719786
SNP_P4_1264_2237527	NC_021160.1	Ca_kabuli_chr01	2237527	GG	TT	1946719788
SNP_P4_1265_2237589	NC_021160.1	Ca_kabuli_chr01	2237589	GG	CC	1946719790
SNP_P4_1266_2237792	NC_021160.1	Ca_kabuli_chr01	2237792	AA	TT	1946719792
SNP_P4_1267_2240218	NC_021160.1	Ca_kabuli_chr01	2240218	AA	GG	1946719794
SNP_P4_1268_2240287	NC_021160.1	Ca_kabuli_chr01	2240287	GG	TT	1946719796
SNP_P4_1269_2243882	NC_021160.1	Ca_kabuli_chr01	2243882	TT	AA	1946719798
SNP_P4_1270_2243895	NC_021160.1	Ca_kabuli_chr01	2243895	CC	TT	1946719800

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_1271_2243899	NC_021160.1	Ca_kabuli_chr01	2243899	GG	TT	1946719802
SNP_P4_1272_2243984	NC_021160.1	Ca_kabuli_chr01	2243984	CC	GG	1946719804
SNP_P4_1275_2245257	NC_021160.1	Ca_kabuli_chr01	2245257	CC	TT	1946719806
SNP_P4_1276_2245286	NC_021160.1	Ca_kabuli_chr01	2245286	TT	AA	1946719808
SNP_P4_1277_2245553	NC_021160.1	Ca_kabuli_chr01	2245553	GG	AA	1946719810
SNP_P4_1278_2245555	NC_021160.1	Ca_kabuli_chr01	2245555	TT	CC	1946719812
SNP_P4_1279_2245605	NC_021160.1	Ca_kabuli_chr01	2245605	AA	TT	1946719814
SNP_P4_1280_2245622	NC_021160.1	Ca_kabuli_chr01	2245622	CC	TT	1946719816
SNP_P4_1281_2245624	NC_021160.1	Ca_kabuli_chr01	2245624	CC	GG	1946719818
SNP_P4_1282_2245823	NC_021160.1	Ca_kabuli_chr01	2245823	AA	GG	1946719820
SNP_P4_1283_2245830	NC_021160.1	Ca_kabuli_chr01	2245830	CC	AA	1946719822
SNP_P4_1285_2245875	NC_021160.1	Ca_kabuli_chr01	2245875	CC	TT	1946719824
SNP_P4_1286_2245941	NC_021160.1	Ca_kabuli_chr01	2245941	GG	AA	1946719826
SNP_P4_1287_2246160	NC_021160.1	Ca_kabuli_chr01	2246160	AA	GG	1946719828
SNP_P4_1288_2246207	NC_021160.1	Ca_kabuli_chr01	2246207	AA	GG	1946719830
SNP_P4_1289_2246226	NC_021160.1	Ca_kabuli_chr01	2246226	AA	CC	1946719832
SNP_P4_1290_2246228	NC_021160.1	Ca_kabuli_chr01	2246228	TT	CC	1946719834
SNP_P4_1291_2246230	NC_021160.1	Ca_kabuli_chr01	2246230	CC	TT	1946719836
SNP_P4_1292_2247605	NC_021160.1	Ca_kabuli_chr01	2247605	AA	GG	1946719838
SNP_P4_1293_2247653	NC_021160.1	Ca_kabuli_chr01	2247653	AA	GG	1946719840
SNP_P4_1295_2247717	NC_021160.1	Ca_kabuli_chr01	2247717	TT	GG	1946719842
SNP_P4_1296_2247960	NC_021160.1	Ca_kabuli_chr01	2247960	CC	AA	1946719844
SNP_P4_1297_2248062	NC_021160.1	Ca_kabuli_chr01	2248062	GG	AA	1946719846
SNP_P4_1298_2248077	NC_021160.1	Ca_kabuli_chr01	2248077	AA	GG	1946719848
SNP_P4_1299_2248178	NC_021160.1	Ca_kabuli_chr01	2248178	CC	GG	1946719850
SNP_P4_1300_2248193	NC_021160.1	Ca_kabuli_chr01	2248193	TT	CC	1946719852
SNP_P4_1301_2248234	NC_021160.1	Ca_kabuli_chr01	2248234	CC	TT	1946719854
SNP_P4_1302_2248249	NC_021160.1	Ca_kabuli_chr01	2248249	GG	AA	1946719856
SNP_P4_1303_2248445	NC_021160.1	Ca_kabuli_chr01	2248445	GG	AA	1946719858
SNP_P4_1305_2248518	NC_021160.1	Ca_kabuli_chr01	2248518	TT	CC	1946719860
SNP_P4_1306_2249751	NC_021160.1	Ca_kabuli_chr01	2249751	GG	CC	1946719862
SNP_P4_1307_2249910	NC_021160.1	Ca_kabuli_chr01	2249910	CC	TT	1946719864
SNP_P4_1308_2249932	NC_021160.1	Ca_kabuli_chr01	2249932	AA	GG	1946719866
SNP_P4_1309_2249952	NC_021160.1	Ca_kabuli_chr01	2249952	GG	AA	1946719868
SNP_P4_1310_2249997	NC_021160.1	Ca_kabuli_chr01	2249997	CC	TT	1946719870
SNP_P4_1311_2250263	NC_021160.1	Ca_kabuli_chr01	2250263	CC	TT	1946719872
SNP_P4_1313_2250928	NC_021160.1	Ca_kabuli_chr01	2250928	TT	CC	1946719874
SNP_P4_1315_2251190	NC_021160.1	Ca_kabuli_chr01	2251190	GG	AA	1946719876
SNP_P4_1316_2251257	NC_021160.1	Ca_kabuli_chr01	2251257	GG	AA	1946719878
SNP_P4_1317_2251258	NC_021160.1	Ca_kabuli_chr01	2251258	TT	GG	1946719880
SNP_P4_1318_2251262	NC_021160.1	Ca_kabuli_chr01	2251262	CC	TT	1946719882
SNP_P4_1319_2251290	NC_021160.1	Ca_kabuli_chr01	2251290	CC	AA	1946719884

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_1320_2251455	NC_021160.1	Ca_kabuli_chr01	2251455	GG	CC	1946719886
SNP_P4_1321_2251502	NC_021160.1	Ca_kabuli_chr01	2251502	CC	TT	1946719888
SNP_P4_1322_2251817	NC_021160.1	Ca_kabuli_chr01	2251817	TT	GG	1946719890
SNP_P4_1324_2252343	NC_021160.1	Ca_kabuli_chr01	2252343	GG	TT	1946719892
SNP_P4_1325_2252377	NC_021160.1	Ca_kabuli_chr01	2252377	AA	GG	1946719894
SNP_P4_1326_2252716	NC_021160.1	Ca_kabuli_chr01	2252716	CC	TT	1946719896
SNP_P4_1327_2252742	NC_021160.1	Ca_kabuli_chr01	2252742	GG	AA	1946719898
SNP_P4_1328_2253334	NC_021160.1	Ca_kabuli_chr01	2253334	AA	TT	1946719900
SNP_P4_1329_2254400	NC_021160.1	Ca_kabuli_chr01	2254400	GG	CC	1946719902
SNP_P4_1330_2254565	NC_021160.1	Ca_kabuli_chr01	2254565	TT	CC	1946719904
SNP_P4_1331_2254581	NC_021160.1	Ca_kabuli_chr01	2254581	CC	TT	1946719906
SNP_P4_1333_2254692	NC_021160.1	Ca_kabuli_chr01	2254692	TT	CC	1946719908
SNP_P4_1334_2254999	NC_021160.1	Ca_kabuli_chr01	2254999	CC	TT	1946719910
SNP_P4_1335_2255010	NC_021160.1	Ca_kabuli_chr01	2255010	GG	AA	1946719912
SNP_P4_1336_2255019	NC_021160.1	Ca_kabuli_chr01	2255019	TT	CC	1946719914
SNP_P4_1337_2256151	NC_021160.1	Ca_kabuli_chr01	2256151	CC	TT	1946719916
SNP_P4_1338_2256152	NC_021160.1	Ca_kabuli_chr01	2256152	AA	GG	1946719918
SNP_P4_1339_2256208	NC_021160.1	Ca_kabuli_chr01	2256208	TT	CC	1946719920
SNP_P4_1340_2256393	NC_021160.1	Ca_kabuli_chr01	2256393	CC	TT	1946719922
SNP_P4_1342_2256474	NC_021160.1	Ca_kabuli_chr01	2256474	CC	TT	1946719924
SNP_P4_1343_2256475	NC_021160.1	Ca_kabuli_chr01	2256475	AA	GG	1946719926
SNP_P4_1344_2256504	NC_021160.1	Ca_kabuli_chr01	2256504	GG	AA	1946719928
SNP_P4_1345_2256512	NC_021160.1	Ca_kabuli_chr01	2256512	GG	AA	1946719930
SNP_P4_1346_2256527	NC_021160.1	Ca_kabuli_chr01	2256527	AA	GG	1946719932
SNP_P4_1347_2256529	NC_021160.1	Ca_kabuli_chr01	2256529	AA	GG	1946719934
SNP_P4_1348_2256548	NC_021160.1	Ca_kabuli_chr01	2256548	AA	CC	1946719936
SNP_P4_1349_2256600	NC_021160.1	Ca_kabuli_chr01	2256600	AA	GG	1946719938
SNP_P4_1350_2256622	NC_021160.1	Ca_kabuli_chr01	2256622	GG	AA	1946719940
SNP_P4_1352_2256686	NC_021160.1	Ca_kabuli_chr01	2256686	GG	AA	1946719942
SNP_P4_1353_2257008	NC_021160.1	Ca_kabuli_chr01	2257008	AA	GG	1946719944
SNP_P4_1354_2257197	NC_021160.1	Ca_kabuli_chr01	2257197	CC	TT	1946719946
SNP_P4_1355_2257422	NC_021160.1	Ca_kabuli_chr01	2257422	TT	GG	1946719948
SNP_P4_1356_2257552	NC_021160.1	Ca_kabuli_chr01	2257552	AA	TT	1946719949
SNP_P4_1357_2257554	NC_021160.1	Ca_kabuli_chr01	2257554	AA	TT	1946719951
SNP_P4_1358_2257590	NC_021160.1	Ca_kabuli_chr01	2257590	GG	TT	1946719953
SNP_P4_1359_2257721	NC_021160.1	Ca_kabuli_chr01	2257721	TT	CC	1946719955
SNP_P4_1360_2257744	NC_021160.1	Ca_kabuli_chr01	2257744	AA	GG	1946719957
SNP_P4_1361_2257759	NC_021160.1	Ca_kabuli_chr01	2257759	GG	AA	1946719959
SNP_P4_1363_2257870	NC_021160.1	Ca_kabuli_chr01	2257870	AA	GG	1946719961
SNP_P4_1364_2257881	NC_021160.1	Ca_kabuli_chr01	2257881	TT	CC	1946719963
SNP_P4_1365_2257889	NC_021160.1	Ca_kabuli_chr01	2257889	AA	GG	1946719965
SNP_P4_1366_2257913	NC_021160.1	Ca_kabuli_chr01	2257913	TT	GG	1946719967

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_1367_2257924	NC_021160.1	Ca_kabuli_chr01	2257924	TT	CC	1946719969
SNP_P4_1368_2257985	NC_021160.1	Ca_kabuli_chr01	2257985	AA	GG	1946719971
SNP_P4_1370_2258015	NC_021160.1	Ca_kabuli_chr01	2258015	CC	GG	1946719973
SNP_P4_1372_2258195	NC_021160.1	Ca_kabuli_chr01	2258195	AA	GG	1946719975
SNP_P4_1373_2261551	NC_021160.1	Ca_kabuli_chr01	2261551	CC	AA	1946719977
SNP_P4_1374_2262189	NC_021160.1	Ca_kabuli_chr01	2262189	TT	GG	1946719979
SNP_P4_1375_2262999	NC_021160.1	Ca_kabuli_chr01	2262999	AA	TT	1946719981
SNP_P4_1377_2263791	NC_021160.1	Ca_kabuli_chr01	2263791	GG	AA	1946719983
SNP_P4_1378_2263908	NC_021160.1	Ca_kabuli_chr01	2263908	GG	TT	1946719985
SNP_P4_1379_2263920	NC_021160.1	Ca_kabuli_chr01	2263920	CC	GG	1946719987
SNP_P4_1380_2263934	NC_021160.1	Ca_kabuli_chr01	2263934	AA	GG	1946719989
SNP_P4_1381_2263939	NC_021160.1	Ca_kabuli_chr01	2263939	CC	GG	1946719991
SNP_P4_1383_2264642	NC_021160.1	Ca_kabuli_chr01	2264642	GG	AA	1946719993
SNP_P4_1384_2264647	NC_021160.1	Ca_kabuli_chr01	2264647	GG	AA	1946719995
SNP_P4_1385_2264786	NC_021160.1	Ca_kabuli_chr01	2264786	GG	AA	1946719997
SNP_P4_1386_2264799	NC_021160.1	Ca_kabuli_chr01	2264799	AA	TT	1946719999
SNP_P4_1387_2264872	NC_021160.1	Ca_kabuli_chr01	2264872	TT	CC	1946720001
SNP_P4_1388_2264874	NC_021160.1	Ca_kabuli_chr01	2264874	GG	TT	1946720003
SNP_P4_1389_2264878	NC_021160.1	Ca_kabuli_chr01	2264878	AA	CC	1946720005
SNP_P4_1390_2264895	NC_021160.1	Ca_kabuli_chr01	2264895	AA	GG	1946720007
SNP_P4_1391_2264963	NC_021160.1	Ca_kabuli_chr01	2264963	GG	AA	1946720008
SNP_P4_1392_2265087	NC_021160.1	Ca_kabuli_chr01	2265087	CC	GG	1946720010
SNP_P4_1393_2265098	NC_021160.1	Ca_kabuli_chr01	2265098	AA	GG	1946720012
SNP_P4_1394_2265120	NC_021160.1	Ca_kabuli_chr01	2265120	GG	AA	1946720014
SNP_P4_1395_2265125	NC_021160.1	Ca_kabuli_chr01	2265125	GG	CC	1946720016
SNP_P4_1396_2265132	NC_021160.1	Ca_kabuli_chr01	2265132	AA	GG	1946720018
SNP_P4_1397_2265250	NC_021160.1	Ca_kabuli_chr01	2265250	AA	TT	1946720020
SNP_P4_1398_2265448	NC_021160.1	Ca_kabuli_chr01	2265448	GG	AA	1946720022
SNP_P4_1399_2265964	NC_021160.1	Ca_kabuli_chr01	2265964	CC	TT	1946720024
SNP_P4_1400_2266040	NC_021160.1	Ca_kabuli_chr01	2266040	AA	GG	1946720026
SNP_P4_1401_2270366	NC_021160.1	Ca_kabuli_chr01	2270366	GG	TT	1946720028
SNP_P4_1402_2270435	NC_021160.1	Ca_kabuli_chr01	2270435	GG	TT	1946720031
SNP_P4_1403_2271253	NC_021160.1	Ca_kabuli_chr01	2271253	CC	TT	1946720032
SNP_P4_1404_2271254	NC_021160.1	Ca_kabuli_chr01	2271254	TT	CC	1946720034
SNP_P4_1405_2272460	NC_021160.1	Ca_kabuli_chr01	2272460	CC	AA	1946720036
SNP_P4_1406_2272485	NC_021160.1	Ca_kabuli_chr01	2272485	TT	GG	1946720038
SNP_P4_1407_2272486	NC_021160.1	Ca_kabuli_chr01	2272486	TT	AA	1946720040
SNP_P4_1409_2278290	NC_021160.1	Ca_kabuli_chr01	2278290	TT	GG	1946720042
SNP_P4_1411_2278368	NC_021160.1	Ca_kabuli_chr01	2278368	AA	CC	1946720044
SNP_P4_1412_2278951	NC_021160.1	Ca_kabuli_chr01	2278951	TT	CC	1946720046
SNP_P4_1413_2279127	NC_021160.1	Ca_kabuli_chr01	2279127	AA	TT	1946720048
SNP_P4_1414_2279431	NC_021160.1	Ca_kabuli_chr01	2279431	AA	TT	1946720050

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_1415_2279436	NC_021160.1	Ca_kabuli_chr01	2279436	CC	GG	1946720052
SNP_P4_1417_2280160	NC_021160.1	Ca_kabuli_chr01	2280160	AA	GG	1946720054
SNP_P4_1418_2280478	NC_021160.1	Ca_kabuli_chr01	2280478	AA	CC	1946720056
SNP_P4_1419_2280735	NC_021160.1	Ca_kabuli_chr01	2280735	TT	GG	1946720059
SNP_P4_1420_2280748	NC_021160.1	Ca_kabuli_chr01	2280748	GG	AA	1946720061
SNP_P4_1421_2282954	NC_021160.1	Ca_kabuli_chr01	2282954	GG	TT	1946720063
SNP_P4_1422_2283126	NC_021160.1	Ca_kabuli_chr01	2283126	GG	TT	1946720065
SNP_P4_1423_2283131	NC_021160.1	Ca_kabuli_chr01	2283131	CC	GG	1946720067
SNP_P4_1424_2283134	NC_021160.1	Ca_kabuli_chr01	2283134	TT	AA	1946720069
SNP_P4_1425_2283961	NC_021160.1	Ca_kabuli_chr01	2283961	GG	TT	1946720071
SNP_P4_1426_2284161	NC_021160.1	Ca_kabuli_chr01	2284161	AA	TT	1946720073
SNP_P4_1427_2284175	NC_021160.1	Ca_kabuli_chr01	2284175	AA	TT	1946720075
SNP_P4_1428_2284192	NC_021160.1	Ca_kabuli_chr01	2284192	GG	TT	1946720077
SNP_P4_1429_2284212	NC_021160.1	Ca_kabuli_chr01	2284212	TT	CC	1946720079
SNP_P4_1430_2284441	NC_021160.1	Ca_kabuli_chr01	2284441	GG	CC	1946720081
SNP_P4_1431_2284745	NC_021160.1	Ca_kabuli_chr01	2284745	TT	AA	1946720083
SNP_P4_1432_2284940	NC_021160.1	Ca_kabuli_chr01	2284940	GG	AA	1946720085
SNP_P4_1433_2285879	NC_021160.1	Ca_kabuli_chr01	2285879	GG	AA	1946720087
SNP_P4_1434_2286488	NC_021160.1	Ca_kabuli_chr01	2286488	AA	GG	1946720089
SNP_P4_1435_2289052	NC_021160.1	Ca_kabuli_chr01	2289052	AA	CC	1946720091
SNP_P4_1436_2290039	NC_021160.1	Ca_kabuli_chr01	2290039	TT	AA	1946720093
SNP_P4_1437_2290092	NC_021160.1	Ca_kabuli_chr01	2290092	AA	GG	1946720095
SNP_P4_1438_2290932	NC_021160.1	Ca_kabuli_chr01	2290932	AA	GG	1946720097
SNP_P4_1439_2291280	NC_021160.1	Ca_kabuli_chr01	2291280	TT	GG	1946720099
SNP_P4_1441_2292486	NC_021160.1	Ca_kabuli_chr01	2292486	AA	CC	1946720102
SNP_P4_1442_2292528	NC_021160.1	Ca_kabuli_chr01	2292528	GG	AA	1946720104
SNP_P4_1443_2294335	NC_021160.1	Ca_kabuli_chr01	2294335	AA	GG	1946720106
SNP_P4_1444_2295175	NC_021160.1	Ca_kabuli_chr01	2295175	GG	AA	1946720108
SNP_P4_1445_2296470	NC_021160.1	Ca_kabuli_chr01	2296470	TT	CC	1946720110
SNP_P4_1446_2297773	NC_021160.1	Ca_kabuli_chr01	2297773	TT	CC	1946720113
SNP_P4_1447_2298212	NC_021160.1	Ca_kabuli_chr01	2298212	AA	CC	1946720115
SNP_P4_1451_2299435	NC_021160.1	Ca_kabuli_chr01	2299435	TT	AA	1946720117
SNP_P4_1452_2299436	NC_021160.1	Ca_kabuli_chr01	2299436	TT	AA	1946720119
SNP_P4_1453_2299437	NC_021160.1	Ca_kabuli_chr01	2299437	TT	AA	1946720121
SNP_P4_1454_2299438	NC_021160.1	Ca_kabuli_chr01	2299438	TT	AA	1946720123
SNP_P4_1455_2299443	NC_021160.1	Ca_kabuli_chr01	2299443	AA	GG	1946720125
SNP_P4_1456_2299658	NC_021160.1	Ca_kabuli_chr01	2299658	TT	CC	1946720127
SNP_P4_1457_2299709	NC_021160.1	Ca_kabuli_chr01	2299709	TT	AA	1946720129
SNP_P4_1458_2299856	NC_021160.1	Ca_kabuli_chr01	2299856	TT	AA	1946720131
SNP_P4_1459_2299886	NC_021160.1	Ca_kabuli_chr01	2299886	AA	TT	1946720133
SNP_P4_1460_2299913	NC_021160.1	Ca_kabuli_chr01	2299913	AA	TT	1946720134
SNP_P4_1461_2300013	NC_021160.1	Ca_kabuli_chr01	2300013	AA	TT	1946720136

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_1463_2300234	NC_021160.1	Ca_kabuli_chr01	2300234	TT	GG	1946720140
SNP_P4_1465_2300989	NC_021160.1	Ca_kabuli_chr01	2300989	GG	AA	1946720142
SNP_P4_1466_2300999	NC_021160.1	Ca_kabuli_chr01	2300999	AA	TT	1946720144
SNP_P4_1467_2301035	NC_021160.1	Ca_kabuli_chr01	2301035	GG	AA	1946720146
SNP_P4_1468_2301583	NC_021160.1	Ca_kabuli_chr01	2301583	CC	AA	1946720148
SNP_P4_1470_2301685	NC_021160.1	Ca_kabuli_chr01	2301685	TT	GG	1946720150
SNP_P4_1471_2301950	NC_021160.1	Ca_kabuli_chr01	2301950	CC	AA	1946720152
SNP_P4_1472_2302070	NC_021160.1	Ca_kabuli_chr01	2302070	TT	CC	1946720154
SNP_P4_1473_2302078	NC_021160.1	Ca_kabuli_chr01	2302078	CC	TT	1946720156
SNP_P4_1474_2302096	NC_021160.1	Ca_kabuli_chr01	2302096	AA	TT	1946720158
SNP_P4_1475_2302235	NC_021160.1	Ca_kabuli_chr01	2302235	AA	TT	1946720160
SNP_P4_1476_2302236	NC_021160.1	Ca_kabuli_chr01	2302236	CC	TT	1946720162
SNP_P4_1477_2304877	NC_021160.1	Ca_kabuli_chr01	2304877	AA	CC	1946720164
SNP_P4_1478_2304966	NC_021160.1	Ca_kabuli_chr01	2304966	AA	GG	1946720166
SNP_P4_1479_2305246	NC_021160.1	Ca_kabuli_chr01	2305246	TT	AA	1946720168
SNP_P4_1480_2305477	NC_021160.1	Ca_kabuli_chr01	2305477	CC	TT	1946720170
SNP_P4_1481_2306002	NC_021160.1	Ca_kabuli_chr01	2306002	GG	AA	1946720172
SNP_P4_1482_2306340	NC_021160.1	Ca_kabuli_chr01	2306340	TT	CC	1946720174
SNP_P4_1483_2308810	NC_021160.1	Ca_kabuli_chr01	2308810	TT	CC	1946720176
SNP_P4_1484_2308960	NC_021160.1	Ca_kabuli_chr01	2308960	TT	CC	1946720178
SNP_P4_1485_2309306	NC_021160.1	Ca_kabuli_chr01	2309306	AA	GG	1946720180
SNP_P4_1486_2310300	NC_021160.1	Ca_kabuli_chr01	2310300	TT	CC	1946720183
SNP_P4_1487_2310660	NC_021160.1	Ca_kabuli_chr01	2310660	AA	CC	1946720185
SNP_P4_1488_2310671	NC_021160.1	Ca_kabuli_chr01	2310671	AA	GG	1946720187
SNP_P4_1489_2310685	NC_021160.1	Ca_kabuli_chr01	2310685	GG	TT	1946720189
SNP_P4_1491_2313742	NC_021160.1	Ca_kabuli_chr01	2313742	CC	TT	1946720191
SNP_P4_1492_2315178	NC_021160.1	Ca_kabuli_chr01	2315178	TT	CC	1946720193
SNP_P4_1494_2316418	NC_021160.1	Ca_kabuli_chr01	2316418	TT	CC	1946720195
SNP_P4_1495_2316464	NC_021160.1	Ca_kabuli_chr01	2316464	TT	AA	1946720197
SNP_P4_1496_2316602	NC_021160.1	Ca_kabuli_chr01	2316602	TT	CC	1946720199
SNP_P4_1498_2316817	NC_021160.1	Ca_kabuli_chr01	2316817	TT	CC	1946720201
SNP_P4_1499_2316825	NC_021160.1	Ca_kabuli_chr01	2316825	CC	AA	1946720203
SNP_P4_1501_2317125	NC_021160.1	Ca_kabuli_chr01	2317125	GG	AA	1946720205
SNP_P4_1502_2317154	NC_021160.1	Ca_kabuli_chr01	2317154	TT	GG	1946720207
SNP_P4_1503_2317439	NC_021160.1	Ca_kabuli_chr01	2317439	TT	AA	1946720209
SNP_P4_1504_2317443	NC_021160.1	Ca_kabuli_chr01	2317443	TT	AA	1946720211
SNP_P4_1505_2317656	NC_021160.1	Ca_kabuli_chr01	2317656	AA	GG	1946720213
SNP_P4_1508_2321428	NC_021160.1	Ca_kabuli_chr01	2321428	AA	TT	1946720215
SNP_P4_1509_2323146	NC_021160.1	Ca_kabuli_chr01	2323146	GG	AA	1946720217
SNP_P4_1511_2324363	NC_021160.1	Ca_kabuli_chr01	2324363	TT	CC	1946720219
SNP_P4_1512_2324373	NC_021160.1	Ca_kabuli_chr01	2324373	CC	GG	1946720221

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_1516_2327838	NC_021160.1	Ca_kabuli_chr01	2327838	TT	CC	1946720228
SNP_P4_1517_2327985	NC_021160.1	Ca_kabuli_chr01	2327985	TT	CC	1946720230
SNP_P4_1518_2328342	NC_021160.1	Ca_kabuli_chr01	2328342	TT	GG	1946720232
SNP_P4_1519_2328717	NC_021160.1	Ca_kabuli_chr01	2328717	CC	TT	1946720234
SNP_P4_1520_2330615	NC_021160.1	Ca_kabuli_chr01	2330615	GG	AA	1946720236
SNP_P4_1521_2332267	NC_021160.1	Ca_kabuli_chr01	2332267	AA	GG	1946720238
SNP_P4_1522_2332278	NC_021160.1	Ca_kabuli_chr01	2332278	AA	TT	1946720240
SNP_P4_1523_2332284	NC_021160.1	Ca_kabuli_chr01	2332284	AA	CC	1946720242
SNP_P4_1524_2332293	NC_021160.1	Ca_kabuli_chr01	2332293	AA	CC	1946720244
SNP_P4_1527_2334228	NC_021160.1	Ca_kabuli_chr01	2334228	CC	AA	1946720246
SNP_P4_1528_2334484	NC_021160.1	Ca_kabuli_chr01	2334484	TT	CC	1946720248
SNP_P4_1529_2334492	NC_021160.1	Ca_kabuli_chr01	2334492	GG	AA	1946720250
SNP_P4_1530_2334982	NC_021160.1	Ca_kabuli_chr01	2334982	TT	CC	1946720252
SNP_P4_1531_2336821	NC_021160.1	Ca_kabuli_chr01	2336821	TT	CC	1946720254
SNP_P4_1532_2336824	NC_021160.1	Ca_kabuli_chr01	2336824	AA	TT	1946720256
SNP_P4_1533_2336856	NC_021160.1	Ca_kabuli_chr01	2336856	CC	TT	1946720258
SNP_P4_1534_2337111	NC_021160.1	Ca_kabuli_chr01	2337111	AA	GG	1946720260
SNP_P4_1536_2337432	NC_021160.1	Ca_kabuli_chr01	2337432	GG	TT	1946720262
SNP_P4_1537_2338997	NC_021160.1	Ca_kabuli_chr01	2338997	TT	GG	1946720264
SNP_P4_1538_2339366	NC_021160.1	Ca_kabuli_chr01	2339366	GG	TT	1946720266
SNP_P4_1540_2341448	NC_021160.1	Ca_kabuli_chr01	2341448	GG	AA	1946720268
SNP_P4_1542_2341945	NC_021160.1	Ca_kabuli_chr01	2341945	GG	AA	1946720270
SNP_P4_1543_2343203	NC_021160.1	Ca_kabuli_chr01	2343203	TT	GG	1946720273
SNP_P4_1544_2343224	NC_021160.1	Ca_kabuli_chr01	2343224	AA	GG	1946720275
SNP_P4_1545_2343235	NC_021160.1	Ca_kabuli_chr01	2343235	GG	TT	1946720278
SNP_P4_1546_2343249	NC_021160.1	Ca_kabuli_chr01	2343249	AA	CC	1946720280
SNP_P4_1547_2343271	NC_021160.1	Ca_kabuli_chr01	2343271	TT	CC	1946720282
SNP_P4_1548_2343390	NC_021160.1	Ca_kabuli_chr01	2343390	AA	CC	1946720284
SNP_P4_1549_2343749	NC_021160.1	Ca_kabuli_chr01	2343749	CC	TT	1946720286
SNP_P4_1550_2343864	NC_021160.1	Ca_kabuli_chr01	2343864	GG	AA	1946720288
SNP_P4_1551_2344153	NC_021160.1	Ca_kabuli_chr01	2344153	GG	AA	1946720290
SNP_P4_1552_2346083	NC_021160.1	Ca_kabuli_chr01	2346083	GG	AA	1946720292
SNP_P4_1554_2347328	NC_021160.1	Ca_kabuli_chr01	2347328	TT	CC	1946720294
SNP_P4_1557_2347550	NC_021160.1	Ca_kabuli_chr01	2347550	GG	CC	1946720296
SNP_P4_1559_2347986	NC_021160.1	Ca_kabuli_chr01	2347986	GG	AA	1946720298
SNP_P4_1560_2348148	NC_021160.1	Ca_kabuli_chr01	2348148	GG	AA	1946720300
SNP_P4_1561_2348236	NC_021160.1	Ca_kabuli_chr01	2348236	GG	AA	1946720302
SNP_P4_1563_2348888	NC_021160.1	Ca_kabuli_chr01	2348888	GG	AA	1946720303
SNP_P4_1564_2349129	NC_021160.1	Ca_kabuli_chr01	2349129	AA	GG	1946720305
SNP_P4_1565_2349729	NC_021160.1	Ca_kabuli_chr01	2349729	GG	AA	1946720307

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_1567_2351655	NC_021160.1	Ca_kabuli_chr01	2351655	TT	CC	1946720311
SNP_P4_1569_2351725	NC_021160.1	Ca_kabuli_chr01	2351725	TT	CC	1946720313
SNP_P4_1570_2351729	NC_021160.1	Ca_kabuli_chr01	2351729	TT	CC	1946720315
SNP_P4_1571_2351911	NC_021160.1	Ca_kabuli_chr01	2351911	GG	TT	1946720317
SNP_P4_1572_2351938	NC_021160.1	Ca_kabuli_chr01	2351938	AA	GG	1946720319
SNP_P4_1573_2351972	NC_021160.1	Ca_kabuli_chr01	2351972	TT	CC	1946720321
SNP_P4_1574_2351998	NC_021160.1	Ca_kabuli_chr01	2351998	TT	CC	1946720323
SNP_P4_1575_2352186	NC_021160.1	Ca_kabuli_chr01	2352186	TT	GG	1946720324
SNP_P4_1576_2352266	NC_021160.1	Ca_kabuli_chr01	2352266	CC	TT	1946720326
SNP_P4_1577_2352415	NC_021160.1	Ca_kabuli_chr01	2352415	GG	AA	1946720329
SNP_P4_1578_2352476	NC_021160.1	Ca_kabuli_chr01	2352476	CC	TT	1946720331
SNP_P4_1579_2352868	NC_021160.1	Ca_kabuli_chr01	2352868	TT	AA	1946720333
SNP_P4_1580_2352884	NC_021160.1	Ca_kabuli_chr01	2352884	TT	CC	1946720335
SNP_P4_1581_2353788	NC_021160.1	Ca_kabuli_chr01	2353788	CC	TT	1946720337
SNP_P4_1582_2354838	NC_021160.1	Ca_kabuli_chr01	2354838	GG	CC	1946720339
SNP_P4_1583_2357683	NC_021160.1	Ca_kabuli_chr01	2357683	CC	AA	1946720341
SNP_P4_1585_2359045	NC_021160.1	Ca_kabuli_chr01	2359045	GG	AA	1946720343
SNP_P4_1587_2360198	NC_021160.1	Ca_kabuli_chr01	2360198	TT	CC	1946720346
SNP_P4_1588_2360202	NC_021160.1	Ca_kabuli_chr01	2360202	AA	TT	1946720348
SNP_P4_1589_2360215	NC_021160.1	Ca_kabuli_chr01	2360215	TT	CC	1946720350
SNP_P4_1590_2360551	NC_021160.1	Ca_kabuli_chr01	2360551	AA	GG	1946720352
SNP_P4_1591_2363668	NC_021160.1	Ca_kabuli_chr01	2363668	GG	TT	1946720354
SNP_P4_1592_2363941	NC_021160.1	Ca_kabuli_chr01	2363941	CC	TT	1946720356
SNP_P4_1593_2364004	NC_021160.1	Ca_kabuli_chr01	2364004	GG	TT	1946720358
SNP_P4_1594_2364196	NC_021160.1	Ca_kabuli_chr01	2364196	GG	AA	1946720360
SNP_P4_1595_2364502	NC_021160.1	Ca_kabuli_chr01	2364502	GG	AA	1946720362
SNP_P4_1596_2364523	NC_021160.1	Ca_kabuli_chr01	2364523	CC	GG	1946720364
SNP_P4_1597_2364753	NC_021160.1	Ca_kabuli_chr01	2364753	TT	CC	1946720366
SNP_P4_1598_2365587	NC_021160.1	Ca_kabuli_chr01	2365587	CC	GG	1946720368
SNP_P4_1599_2367210	NC_021160.1	Ca_kabuli_chr01	2367210	GG	AA	1946720370
SNP_P4_1600_2367255	NC_021160.1	Ca_kabuli_chr01	2367255	TT	CC	1946720372
SNP_P4_1601_2368107	NC_021160.1	Ca_kabuli_chr01	2368107	GG	AA	1946720375
SNP_P4_1602_2368140	NC_021160.1	Ca_kabuli_chr01	2368140	CC	TT	1946720377
SNP_P4_1603_2368144	NC_021160.1	Ca_kabuli_chr01	2368144	CC	TT	1946720379
SNP_P4_1604_2368150	NC_021160.1	Ca_kabuli_chr01	2368150	AA	TT	1946720381
SNP_P4_1605_2368664	NC_021160.1	Ca_kabuli_chr01	2368664	CC	TT	1946720383
SNP_P4_1606_2368908	NC_021160.1	Ca_kabuli_chr01	2368908	GG	TT	1946720385
SNP_P4_1607_2368921	NC_021160.1	Ca_kabuli_chr01	2368921	TT	CC	1946720387
SNP_P4_1608_2368981	NC_021160.1	Ca_kabuli_chr01	2368981	GG	AA	1946720389
SNP_P4_1611_2369613	NC_021160.1	Ca_kabuli_chr01	2369613	TT	CC	1946720391
SNP_P4_1612_2369684	NC_021160.1	Ca_kabuli_chr01	2369684	TT	AA	1946720393

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_1615_2372454	NC_021160.1	Ca_kabuli_chr01	2372454	CC	TT	1946720395
SNP_P4_1616_2372521	NC_021160.1	Ca_kabuli_chr01	2372521	AA	GG	1946720397
SNP_P4_1617_2373480	NC_021160.1	Ca_kabuli_chr01	2373480	TT	GG	1946720399
SNP_P4_1618_2373735	NC_021160.1	Ca_kabuli_chr01	2373735	TT	AA	1946720401
SNP_P4_1619_2374913	NC_021160.1	Ca_kabuli_chr01	2374913	TT	AA	1946720403
SNP_P4_1620_2374935	NC_021160.1	Ca_kabuli_chr01	2374935	CC	TT	1946720405
SNP_P4_1621_2374967	NC_021160.1	Ca_kabuli_chr01	2374967	TT	CC	1946720407
SNP_P4_1622_2375206	NC_021160.1	Ca_kabuli_chr01	2375206	CC	GG	1946720409
SNP_P4_1623_2375250	NC_021160.1	Ca_kabuli_chr01	2375250	CC	TT	1946720411
SNP_P4_1624_2375294	NC_021160.1	Ca_kabuli_chr01	2375294	AA	TT	1946720413
SNP_P4_1625_2375461	NC_021160.1	Ca_kabuli_chr01	2375461	TT	CC	1946720415
SNP_P4_1626_2376990	NC_021160.1	Ca_kabuli_chr01	2376990	CC	TT	1946720417
SNP_P4_1627_2376996	NC_021160.1	Ca_kabuli_chr01	2376996	TT	CC	1946720419
SNP_P4_1628_2378344	NC_021160.1	Ca_kabuli_chr01	2378344	CC	AA	1946720421
SNP_P4_1629_2378405	NC_021160.1	Ca_kabuli_chr01	2378405	GG	TT	1946720423
SNP_P4_1630_2378411	NC_021160.1	Ca_kabuli_chr01	2378411	CC	GG	1946720425
SNP_P4_1631_2378412	NC_021160.1	Ca_kabuli_chr01	2378412	CC	TT	1946720427
SNP_P4_1632_2378917	NC_021160.1	Ca_kabuli_chr01	2378917	GG	AA	1946720430
SNP_P4_1633_2378966	NC_021160.1	Ca_kabuli_chr01	2378966	AA	TT	1946720432
SNP_P4_1634_2378971	NC_021160.1	Ca_kabuli_chr01	2378971	CC	AA	1946720434
SNP_P4_1636_2379378	NC_021160.1	Ca_kabuli_chr01	2379378	GG	TT	1946720436
SNP_P4_1638_2380205	NC_021160.1	Ca_kabuli_chr01	2380205	TT	AA	1946720438
SNP_P4_1639_2380218	NC_021160.1	Ca_kabuli_chr01	2380218	CC	AA	1946720440
SNP_P4_1640_2380223	NC_021160.1	Ca_kabuli_chr01	2380223	AA	TT	1946720442
SNP_P4_1641_2380256	NC_021160.1	Ca_kabuli_chr01	2380256	TT	AA	1946720445
SNP_P4_1642_2380300	NC_021160.1	Ca_kabuli_chr01	2380300	CC	TT	1946720447
SNP_P4_1643_2380505	NC_021160.1	Ca_kabuli_chr01	2380505	TT	AA	1946720449
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SNP_P4_1645_2380541	NC_021160.1	Ca_kabuli_chr01	2380541	GG	AA	1946720453
SNP_P4_1646_2380561	NC_021160.1	Ca_kabuli_chr01	2380561	TT	AA	1946720455
SNP_P4_1647_2380616	NC_021160.1	Ca_kabuli_chr01	2380616	AA	GG	1946720457
SNP_P4_1648_2381328	NC_021160.1	Ca_kabuli_chr01	2381328	AA	CC	1946720459
SNP_P4_1649_2382060	NC_021160.1	Ca_kabuli_chr01	2382060	CC	TT	1946720461
SNP_P4_1650_2382086	NC_021160.1	Ca_kabuli_chr01	2382086	TT	CC	1946720463
SNP_P4_1651_2382113	NC_021160.1	Ca_kabuli_chr01	2382113	AA	GG	1946720465
SNP_P4_1652_2382961	NC_021160.1	Ca_kabuli_chr01	2382961	AA	GG	1946720467
SNP_P4_1653_2385354	NC_021160.1	Ca_kabuli_chr01	2385354	CC	TT	1946720469
SNP_P4_1654_2385374	NC_021160.1	Ca_kabuli_chr01	2385374	GG	AA	1946720471
SNP_P4_1655_2385568	NC_021160.1	Ca_kabuli_chr01	2385568	GG	CC	1946720473
SNP_P4_1656_2386674	NC_021160.1	Ca_kabuli_chr01	2386674	GG	AA	1946720475
SNP_P4_1657_2395884	NC_021160.1	Ca_kabuli_chr01	2395884	TT	GG	1946720476
SNP_P4_1658_2396963	NC_021160.1	Ca_kabuli_chr01	2396963	TT	CC	1946720478

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_1661_2400182	NC_021160.1	Ca_kabuli_chr01	2400182	AA	TT	1946720482
SNP_P4_1662_2400188	NC_021160.1	Ca_kabuli_chr01	2400188	GG	TT	1946720484
SNP_P4_1663_2400213	NC_021160.1	Ca_kabuli_chr01	2400213	AA	TT	1946720486
SNP_P4_1664_2400248	NC_021160.1	Ca_kabuli_chr01	2400248	CC	AA	1946720488
SNP_P4_1665_2402464	NC_021160.1	Ca_kabuli_chr01	2402464	GG	AA	1946720490
SNP_P4_1666_2403337	NC_021160.1	Ca_kabuli_chr01	2403337	AA	GG	1946720492
SNP_P4_1668_2406121	NC_021160.1	Ca_kabuli_chr01	2406121	GG	CC	1946720494
SNP_P4_1669_2406125	NC_021160.1	Ca_kabuli_chr01	2406125	CC	AA	1946720496
SNP_P4_1670_2406428	NC_021160.1	Ca_kabuli_chr01	2406428	GG	CC	1946720498
SNP_P4_1671_2406584	NC_021160.1	Ca_kabuli_chr01	2406584	GG	CC	1946720500
SNP_P4_1672_2406588	NC_021160.1	Ca_kabuli_chr01	2406588	CC	TT	1946720502
SNP_P4_1673_2406635	NC_021160.1	Ca_kabuli_chr01	2406635	AA	GG	1946720504
SNP_P4_1674_2406983	NC_021160.1	Ca_kabuli_chr01	2406983	CC	TT	1946720506
SNP_P4_1676_2408255	NC_021160.1	Ca_kabuli_chr01	2408255	CC	TT	1946720508
SNP_P4_1677_2408289	NC_021160.1	Ca_kabuli_chr01	2408289	AA	GG	1946720510
SNP_P4_1678_2408297	NC_021160.1	Ca_kabuli_chr01	2408297	CC	TT	1946720512
SNP_P4_1679_2408300	NC_021160.1	Ca_kabuli_chr01	2408300	TT	CC	1946720514
SNP_P4_1680_2408710	NC_021160.1	Ca_kabuli_chr01	2408710	TT	CC	1946720516
SNP_P4_1681_2408731	NC_021160.1	Ca_kabuli_chr01	2408731	AA	GG	1946720518
SNP_P4_1682_2408883	NC_021160.1	Ca_kabuli_chr01	2408883	GG	AA	1946720520
SNP_P4_1683_2408886	NC_021160.1	Ca_kabuli_chr01	2408886	AA	TT	1946720522
SNP_P4_1684_2408946	NC_021160.1	Ca_kabuli_chr01	2408946	GG	CC	1946720524
SNP_P4_1686_2410132	NC_021160.1	Ca_kabuli_chr01	2410132	GG	TT	1946720526
SNP_P4_1687_2410493	NC_021160.1	Ca_kabuli_chr01	2410493	CC	TT	1946720528
SNP_P4_1688_2410513	NC_021160.1	Ca_kabuli_chr01	2410513	AA	GG	1946720530
SNP_P4_1689_2410648	NC_021160.1	Ca_kabuli_chr01	2410648	CC	GG	1946720532
SNP_P4_1690_2410813	NC_021160.1	Ca_kabuli_chr01	2410813	GG	AA	1946720535
SNP_P4_1691_2410914	NC_021160.1	Ca_kabuli_chr01	2410914	AA	CC	1946720537
SNP_P4_1692_2410939	NC_021160.1	Ca_kabuli_chr01	2410939	TT	AA	1946720539
SNP_P4_1693_2411350	NC_021160.1	Ca_kabuli_chr01	2411350	TT	GG	1946720540
SNP_P4_1694_2411545	NC_021160.1	Ca_kabuli_chr01	2411545	TT	AA	1946720542
SNP_P4_1695_2411658	NC_021160.1	Ca_kabuli_chr01	2411658	TT	CC	1946720545
SNP_P4_1697_2412114	NC_021160.1	Ca_kabuli_chr01	2412114	TT	GG	1946720547
SNP_P4_1698_2412122	NC_021160.1	Ca_kabuli_chr01	2412122	TT	CC	1946720549
SNP_P4_1699_2412125	NC_021160.1	Ca_kabuli_chr01	2412125	GG	AA	1946720551
SNP_P4_1700_2412146	NC_021160.1	Ca_kabuli_chr01	2412146	GG	TT	1946720553
SNP_P4_1701_2412249	NC_021160.1	Ca_kabuli_chr01	2412249	AA	GG	1946720555
SNP_P4_1704_2413424	NC_021160.1	Ca_kabuli_chr01	2413424	GG	AA	1946720557
SNP_P4_1705_2414253	NC_021160.1	Ca_kabuli_chr01	2414253	TT	AA	1946720559
SNP_P4_1706_2414516	NC_021160.1	Ca_kabuli_chr01	2414516	AA	TT	1946720561
SNP_P4_1707_2415235	NC_021160.1	Ca_kabuli_chr01	2415235	CC	TT	1946720562

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_1709_2415448	NC_021160.1	Ca_kabuli_chr01	2415448	AA	CC	1946720564
SNP_P4_1711_2416118	NC_021160.1	Ca_kabuli_chr01	2416118	AA	CC	1946720566
SNP_P4_1714_2416541	NC_021160.1	Ca_kabuli_chr01	2416541	CC	TT	1946720568
SNP_P4_1715_2416826	NC_021160.1	Ca_kabuli_chr01	2416826	TT	CC	1946720570
SNP_P4_1717_2417619	NC_021160.1	Ca_kabuli_chr01	2417619	CC	TT	1946720571
SNP_P4_1718_2418985	NC_021160.1	Ca_kabuli_chr01	2418985	TT	AA	1946720572
SNP_P4_1719_2419322	NC_021160.1	Ca_kabuli_chr01	2419322	TT	CC	1946720573
SNP_P4_1720_2420574	NC_021160.1	Ca_kabuli_chr01	2420574	CC	TT	1946720574
SNP_P4_1721_2424140	NC_021160.1	Ca_kabuli_chr01	2424140	CC	TT	1946720576
SNP_P4_1722_2429335	NC_021160.1	Ca_kabuli_chr01	2429335	AA	TT	1946720578
SNP_P4_1723_2429343	NC_021160.1	Ca_kabuli_chr01	2429343	CC	TT	1946720580
SNP_P4_1724_2429597	NC_021160.1	Ca_kabuli_chr01	2429597	CC	TT	1946720582
SNP_P4_1725_2429643	NC_021160.1	Ca_kabuli_chr01	2429643	CC	TT	1946720584
SNP_P4_1726_2429645	NC_021160.1	Ca_kabuli_chr01	2429645	TT	CC	1946720586
SNP_P4_1727_2429654	NC_021160.1	Ca_kabuli_chr01	2429654	GG	TT	1946720588
SNP_P4_1728_2429673	NC_021160.1	Ca_kabuli_chr01	2429673	AA	TT	1946720590
SNP_P4_1729_2429686	NC_021160.1	Ca_kabuli_chr01	2429686	AA	TT	1946720592
SNP_P4_1730_2429896	NC_021160.1	Ca_kabuli_chr01	2429896	GG	AA	1946720594
SNP_P4_1731_2429913	NC_021160.1	Ca_kabuli_chr01	2429913	CC	TT	1946720596
SNP_P4_1732_2429919	NC_021160.1	Ca_kabuli_chr01	2429919	TT	CC	1946720598
SNP_P4_1733_2429980	NC_021160.1	Ca_kabuli_chr01	2429980	CC	AA	1946720600
SNP_P4_1734_2430220	NC_021160.1	Ca_kabuli_chr01	2430220	TT	CC	1946720602
SNP_P4_1735_2430225	NC_021160.1	Ca_kabuli_chr01	2430225	AA	GG	1946720605
SNP_P4_1736_2430431	NC_021160.1	Ca_kabuli_chr01	2430431	GG	AA	1946720607
SNP_P4_1737_2430499	NC_021160.1	Ca_kabuli_chr01	2430499	GG	CC	1946720609
SNP_P4_1738_2431345	NC_021160.1	Ca_kabuli_chr01	2431345	AA	GG	1946720611
SNP_P4_1739_2431366	NC_021160.1	Ca_kabuli_chr01	2431366	GG	AA	1946720614
SNP_P4_1742_2431679	NC_021160.1	Ca_kabuli_chr01	2431679	TT	AA	1946720616
SNP_P4_1743_2431689	NC_021160.1	Ca_kabuli_chr01	2431689	GG	AA	1946720618
SNP_P4_1744_2432376	NC_021160.1	Ca_kabuli_chr01	2432376	AA	GG	1946720620
SNP_P4_1745_2432710	NC_021160.1	Ca_kabuli_chr01	2432710	AA	CC	1946720622
SNP_P4_1746_2432715	NC_021160.1	Ca_kabuli_chr01	2432715	TT	CC	1946720624
SNP_P4_1747_2432891	NC_021160.1	Ca_kabuli_chr01	2432891	CC	AA	1946720626
SNP_P4_1748_2432959	NC_021160.1	Ca_kabuli_chr01	2432959	GG	TT	1946720628
SNP_P4_1749_2433310	NC_021160.1	Ca_kabuli_chr01	2433310	AA	CC	1946720630
SNP_P4_1750_2433403	NC_021160.1	Ca_kabuli_chr01	2433403	CC	TT	1946720632
SNP_P4_1751_2433565	NC_021160.1	Ca_kabuli_chr01	2433565	AA	TT	1946720634
SNP_P4_1752_2434103	NC_021160.1	Ca_kabuli_chr01	2434103	CC	TT	1946720636
SNP_P4_1753_2434727	NC_021160.1	Ca_kabuli_chr01	2434727	TT	AA	1946720638
SNP_P4_1754_2434757	NC_021160.1	Ca_kabuli_chr01	2434757	AA	TT	1946720640
SNP_P4_1755_2434760	NC_021160.1	Ca_kabuli_chr01	2434760	AA	GG	1946720642
SNP_P4_1757_2434887	NC_021160.1	Ca_kabuli_chr01	2434887	GG	TT	1946720644

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_1759_2435026	NC_021160.1	Ca_kabuli_chr01	2435026	GG	AA	1946720648
SNP_P4_1760_2435149	NC_021160.1	Ca_kabuli_chr01	2435149	GG	AA	1946720650
SNP_P4_1761_2435228	NC_021160.1	Ca_kabuli_chr01	2435228	GG	AA	1946720652
SNP_P4_1762_2435296	NC_021160.1	Ca_kabuli_chr01	2435296	AA	GG	1946720654
SNP_P4_1763_2436361	NC_021160.1	Ca_kabuli_chr01	2436361	CC	TT	1946720656
SNP_P4_1765_2436555	NC_021160.1	Ca_kabuli_chr01	2436555	TT	CC	1946720658
SNP_P4_1766_2436596	NC_021160.1	Ca_kabuli_chr01	2436596	CC	TT	1946720660
SNP_P4_1767_2437893	NC_021160.1	Ca_kabuli_chr01	2437893	GG	TT	1946720662
SNP_P4_1768_2437900	NC_021160.1	Ca_kabuli_chr01	2437900	TT	CC	1946720663
SNP_P4_1769_2438553	NC_021160.1	Ca_kabuli_chr01	2438553	GG	CC	1946720665
SNP_P4_1770_2438555	NC_021160.1	Ca_kabuli_chr01	2438555	TT	CC	1946720667
SNP_P4_1771_2438848	NC_021160.1	Ca_kabuli_chr01	2438848	TT	CC	1946720669
SNP_P4_1772_2439915	NC_021160.1	Ca_kabuli_chr01	2439915	GG	AA	1946720671
SNP_P4_1773_2439917	NC_021160.1	Ca_kabuli_chr01	2439917	AA	GG	1946720673
SNP_P4_1775_2440590	NC_021160.1	Ca_kabuli_chr01	2440590	CC	TT	1946720675
SNP_P4_1776_2440912	NC_021160.1	Ca_kabuli_chr01	2440912	TT	AA	1946720677
SNP_P4_1777_2441198	NC_021160.1	Ca_kabuli_chr01	2441198	TT	CC	1946720679
SNP_P4_1778_2441256	NC_021160.1	Ca_kabuli_chr01	2441256	AA	GG	1946720681
SNP_P4_1779_2441393	NC_021160.1	Ca_kabuli_chr01	2441393	GG	CC	1946720683
SNP_P4_1780_2441418	NC_021160.1	Ca_kabuli_chr01	2441418	GG	AA	1946720685
SNP_P4_1781_2441452	NC_021160.1	Ca_kabuli_chr01	2441452	GG	CC	1946720687
SNP_P4_1782_2441470	NC_021160.1	Ca_kabuli_chr01	2441470	GG	AA	1946720689
SNP_P4_1783_2441587	NC_021160.1	Ca_kabuli_chr01	2441587	TT	AA	1946720691
SNP_P4_1784_2441589	NC_021160.1	Ca_kabuli_chr01	2441589	CC	TT	1946720693
SNP_P4_1785_2441649	NC_021160.1	Ca_kabuli_chr01	2441649	TT	GG	1946720695
SNP_P4_1786_2441856	NC_021160.1	Ca_kabuli_chr01	2441856	TT	CC	1946720697
SNP_P4_1787_2442289	NC_021160.1	Ca_kabuli_chr01	2442289	GG	AA	1946720699
SNP_P4_1788_2443575	NC_021160.1	Ca_kabuli_chr01	2443575	CC	GG	1946720701
SNP_P4_1789_2443814	NC_021160.1	Ca_kabuli_chr01	2443814	AA	GG	1946720703
SNP_P4_1791_2445605	NC_021160.1	Ca_kabuli_chr01	2445605	CC	TT	1946720705
SNP_P4_1792_2445675	NC_021160.1	Ca_kabuli_chr01	2445675	AA	CC	1946720707
SNP_P4_1793_2448039	NC_021160.1	Ca_kabuli_chr01	2448039	AA	CC	1946720709
SNP_P4_1794_2448176	NC_021160.1	Ca_kabuli_chr01	2448176	GG	AA	1946720710
SNP_P4_1795_2448191	NC_021160.1	Ca_kabuli_chr01	2448191	TT	AA	1946720712
SNP_P4_1796_2448214	NC_021160.1	Ca_kabuli_chr01	2448214	CC	TT	1946720714
SNP_P4_1798_2448299	NC_021160.1	Ca_kabuli_chr01	2448299	GG	AA	1946720716
SNP_P4_1799_2448311	NC_021160.1	Ca_kabuli_chr01	2448311	AA	CC	1946720718
SNP_P4_1800_2448322	NC_021160.1	Ca_kabuli_chr01	2448322	GG	AA	1946720720
SNP_P4_1801_2448419	NC_021160.1	Ca_kabuli_chr01	2448419	AA	GG	1946720722
SNP_P4_1802_2448790	NC_021160.1	Ca_kabuli_chr01	2448790	CC	TT	1946720724
SNP_P4_1803_2448798	NC_021160.1	Ca_kabuli_chr01	2448798	GG	AA	1946720726

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_1805_2448873	NC_021160.1	Ca_kabuli_chr01	2448873	CC	TT	1946720730
SNP_P4_1807_2449352	NC_021160.1	Ca_kabuli_chr01	2449352	CC	AA	1946720732
SNP_P4_1808_2449397	NC_021160.1	Ca_kabuli_chr01	2449397	AA	GG	1946720734
SNP_P4_1809_2451185	NC_021160.1	Ca_kabuli_chr01	2451185	TT	CC	1946720736
SNP_P4_1810_2451188	NC_021160.1	Ca_kabuli_chr01	2451188	TT	CC	1946720738
SNP_P4_1812_2452591	NC_021160.1	Ca_kabuli_chr01	2452591	GG	AA	1946720740
SNP_P4_1813_2452592	NC_021160.1	Ca_kabuli_chr01	2452592	AA	GG	1946720742
SNP_P4_1814_2452687	NC_021160.1	Ca_kabuli_chr01	2452687	TT	GG	1946720744
SNP_P4_1815_2452976	NC_021160.1	Ca_kabuli_chr01	2452976	AA	GG	1946720746
SNP_P4_1816_2453047	NC_021160.1	Ca_kabuli_chr01	2453047	TT	CC	1946720748
SNP_P4_1817_2453247	NC_021160.1	Ca_kabuli_chr01	2453247	TT	CC	1946720750
SNP_P4_1818_2453249	NC_021160.1	Ca_kabuli_chr01	2453249	CC	TT	1946720752
SNP_P4_1819_2453290	NC_021160.1	Ca_kabuli_chr01	2453290	AA	GG	1946720754
SNP_P4_1820_2453299	NC_021160.1	Ca_kabuli_chr01	2453299	TT	CC	1946720756
SNP_P4_1821_2453724	NC_021160.1	Ca_kabuli_chr01	2453724	CC	TT	1946720758
SNP_P4_1822_2453728	NC_021160.1	Ca_kabuli_chr01	2453728	AA	GG	1946720760
SNP_P4_1823_2453788	NC_021160.1	Ca_kabuli_chr01	2453788	CC	TT	1946720762
SNP_P4_1824_2454076	NC_021160.1	Ca_kabuli_chr01	2454076	TT	GG	1946720764
SNP_P4_1825_2454128	NC_021160.1	Ca_kabuli_chr01	2454128	GG	TT	1946720766
SNP_P4_1826_2454129	NC_021160.1	Ca_kabuli_chr01	2454129	TT	GG	1946720768
SNP_P4_1827_2454156	NC_021160.1	Ca_kabuli_chr01	2454156	TT	AA	1946720770
SNP_P4_1828_2454189	NC_021160.1	Ca_kabuli_chr01	2454189	CC	GG	1946720772
SNP_P4_1829_2454204	NC_021160.1	Ca_kabuli_chr01	2454204	CC	TT	1946720774
SNP_P4_1832_2454729	NC_021160.1	Ca_kabuli_chr01	2454729	AA	TT	1946720777
SNP_P4_1833_2454741	NC_021160.1	Ca_kabuli_chr01	2454741	TT	AA	1946720779
SNP_P4_1834_2454764	NC_021160.1	Ca_kabuli_chr01	2454764	GG	AA	1946720781
SNP_P4_1835_2454797	NC_021160.1	Ca_kabuli_chr01	2454797	TT	AA	1946720783
SNP_P4_1836_2455904	NC_021160.1	Ca_kabuli_chr01	2455904	CC	TT	1946720785
SNP_P4_1837_2455937	NC_021160.1	Ca_kabuli_chr01	2455937	TT	AA	1946720787
SNP_P4_1838_2455955	NC_021160.1	Ca_kabuli_chr01	2455955	CC	AA	1946720789
SNP_P4_1839_2457446	NC_021160.1	Ca_kabuli_chr01	2457446	GG	AA	1946720791
SNP_P4_1840_2457853	NC_021160.1	Ca_kabuli_chr01	2457853	AA	GG	1946720793
SNP_P4_1841_2463108	NC_021160.1	Ca_kabuli_chr01	2463108	AA	GG	1946720795
SNP_P4_1842_2463541	NC_021160.1	Ca_kabuli_chr01	2463541	CC	TT	1946720797
SNP_P4_1843_2463571	NC_021160.1	Ca_kabuli_chr01	2463571	GG	TT	1946720799
SNP_P4_1845_2463714	NC_021160.1	Ca_kabuli_chr01	2463714	TT	CC	1946720801
SNP_P4_1846_2464010	NC_021160.1	Ca_kabuli_chr01	2464010	CC	TT	1946720803
SNP_P4_1847_2465418	NC_021160.1	Ca_kabuli_chr01	2465418	CC	TT	1946720805
SNP_P4_1848_2465423	NC_021160.1	Ca_kabuli_chr01	2465423	TT	CC	1946720807
SNP_P4_1849_2465927	NC_021160.1	Ca_kabuli_chr01	2465927	AA	GG	1946720809
SNP_P4_1850_2466158	NC_021160.1	Ca_kabuli_chr01	2466158	GG	AA	1946720810

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_1851_2466165	NC_021160.1	Ca_kabuli_chr01	2466165	CC	AA	1946720812
SNP_P4_1852_2466395	NC_021160.1	Ca_kabuli_chr01	2466395	AA	GG	1946720814
SNP_P4_1853_2466399	NC_021160.1	Ca_kabuli_chr01	2466399	TT	CC	1946720816
SNP_P4_1854_2466413	NC_021160.1	Ca_kabuli_chr01	2466413	CC	TT	1946720818
SNP_P4_1855_2466430	NC_021160.1	Ca_kabuli_chr01	2466430	AA	GG	1946720820
SNP_P4_1856_2466454	NC_021160.1	Ca_kabuli_chr01	2466454	TT	CC	1946720822
SNP_P4_1857_2469990	NC_021160.1	Ca_kabuli_chr01	2469990	AA	GG	1946720824
SNP_P4_1858_2470040	NC_021160.1	Ca_kabuli_chr01	2470040	AA	CC	1946720826
SNP_P4_1859_2470386	NC_021160.1	Ca_kabuli_chr01	2470386	AA	GG	1946720828
SNP_P4_1860_2470428	NC_021160.1	Ca_kabuli_chr01	2470428	GG	CC	1946720830
SNP_P4_1861_2470784	NC_021160.1	Ca_kabuli_chr01	2470784	TT	AA	1946720832
SNP_P4_1863_2470856	NC_021160.1	Ca_kabuli_chr01	2470856	CC	TT	1946720834
SNP_P4_1864_2470875	NC_021160.1	Ca_kabuli_chr01	2470875	TT	AA	1946720836
SNP_P4_1865_2471235	NC_021160.1	Ca_kabuli_chr01	2471235	TT	CC	1946720838
SNP_P4_1866_2471240	NC_021160.1	Ca_kabuli_chr01	2471240	CC	AA	1946720840
SNP_P4_1867_2471262	NC_021160.1	Ca_kabuli_chr01	2471262	CC	TT	1946720842
SNP_P4_1868_2471287	NC_021160.1	Ca_kabuli_chr01	2471287	CC	GG	1946720844
SNP_P4_1869_2471437	NC_021160.1	Ca_kabuli_chr01	2471437	AA	GG	1946720846
SNP_P4_1870_2471443	NC_021160.1	Ca_kabuli_chr01	2471443	TT	CC	1946720848
SNP_P4_1872_2471544	NC_021160.1	Ca_kabuli_chr01	2471544	CC	TT	1946720850
SNP_P4_1873_2471807	NC_021160.1	Ca_kabuli_chr01	2471807	CC	GG	1946720852
SNP_P4_1874_2474493	NC_021160.1	Ca_kabuli_chr01	2474493	CC	TT	1946720854
SNP_P4_1875_2474858	NC_021160.1	Ca_kabuli_chr01	2474858	CC	TT	1946720856
SNP_P4_1876_2474859	NC_021160.1	Ca_kabuli_chr01	2474859	AA	GG	1946720858
SNP_P4_1878_2475461	NC_021160.1	Ca_kabuli_chr01	2475461	GG	AA	1946720860
SNP_P4_1879_2475471	NC_021160.1	Ca_kabuli_chr01	2475471	TT	CC	1946720862
SNP_P4_1880_2477299	NC_021160.1	Ca_kabuli_chr01	2477299	AA	GG	1946720864
SNP_P4_1881_2477335	NC_021160.1	Ca_kabuli_chr01	2477335	GG	CC	1946720866
SNP_P4_1882_2477336	NC_021160.1	Ca_kabuli_chr01	2477336	CC	AA	1946720868
SNP_P4_1883_2477369	NC_021160.1	Ca_kabuli_chr01	2477369	GG	AA	1946720870
SNP_P4_1884_2477581	NC_021160.1	Ca_kabuli_chr01	2477581	CC	TT	1946720872
SNP_P4_1885_2477712	NC_021160.1	Ca_kabuli_chr01	2477712	TT	GG	1946720874
SNP_P4_1886_2477720	NC_021160.1	Ca_kabuli_chr01	2477720	GG	AA	1946720876
SNP_P4_1887_2496138	NC_021160.1	Ca_kabuli_chr01	2496138	CC	TT	1946720878
SNP_P4_1889_2527674	NC_021160.1	Ca_kabuli_chr01	2527674	CC	TT	1946720880
SNP_P4_1890_2533908	NC_021160.1	Ca_kabuli_chr01	2533908	TT	GG	1946720882
SNP_P4_1891_2535901	NC_021160.1	Ca_kabuli_chr01	2535901	CC	TT	1946720884
SNP_P4_1892_2545109	NC_021160.1	Ca_kabuli_chr01	2545109	CC	GG	1946720886
SNP_P4_1893_2546070	NC_021160.1	Ca_kabuli_chr01	2546070	GG	TT	1946720888
SNP_P4_1894_2547430	NC_021160.1	Ca_kabuli_chr01	2547430	GG	AA	1946720890
SNP_P4_1896_2560421	NC_021160.1	Ca_kabuli_chr01	2560421	GG	CC	1946720892
SNP_P4_1897_2561227	NC_021160.1	Ca_kabuli_chr01	2561227	AA	CC	1946720894

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_1898_2572677	NC_021160.1	Ca_kabuli_chr01	2572677	AA	TT	1946720896
SNP_P4_1900_2591918	NC_021160.1	Ca_kabuli_chr01	2591918	GG	CC	1946720898
SNP_P4_1901_2591941	NC_021160.1	Ca_kabuli_chr01	2591941	CC	GG	1946720900
SNP_P4_1902_2591946	NC_021160.1	Ca_kabuli_chr01	2591946	GG	AA	1946720902
SNP_P4_1903_2594316	NC_021160.1	Ca_kabuli_chr01	2594316	AA	TT	1946720904
SNP_P4_1904_2602735	NC_021160.1	Ca_kabuli_chr01	2602735	GG	AA	1946720906
SNP_P4_1906_2616547	NC_021160.1	Ca_kabuli_chr01	2616547	TT	AA	1946720908
SNP_P4_1907_2619505	NC_021160.1	Ca_kabuli_chr01	2619505	GG	AA	1946720910
SNP_P4_1908_2622512	NC_021160.1	Ca_kabuli_chr01	2622512	GG	AA	1946720912
SNP_P4_1909_2623032	NC_021160.1	Ca_kabuli_chr01	2623032	CC	AA	1946720914
SNP_P4_1910_2624219	NC_021160.1	Ca_kabuli_chr01	2624219	AA	CC	1946720916
SNP_P4_1911_2637174	NC_021160.1	Ca_kabuli_chr01	2637174	AA	GG	1946720918
SNP_P4_1912_2637176	NC_021160.1	Ca_kabuli_chr01	2637176	TT	CC	1946720920
SNP_P4_1913_2637183	NC_021160.1	Ca_kabuli_chr01	2637183	CC	TT	1946720922
SNP_P4_1914_2637201	NC_021160.1	Ca_kabuli_chr01	2637201	AA	TT	1946720924
SNP_P4_1915_2643758	NC_021160.1	Ca_kabuli_chr01	2643758	CC	TT	1946720926
SNP_P4_1916_2643958	NC_021160.1	Ca_kabuli_chr01	2643958	CC	AA	1946720928
SNP_P4_1917_2646988	NC_021160.1	Ca_kabuli_chr01	2646988	AA	TT	1946720930
SNP_P4_1918_2647059	NC_021160.1	Ca_kabuli_chr01	2647059	CC	TT	1946720932
SNP_P4_1919_2647255	NC_021160.1	Ca_kabuli_chr01	2647255	CC	TT	1946720934
SNP_P4_1920_2650443	NC_021160.1	Ca_kabuli_chr01	2650443	GG	AA	1946720936
SNP_P4_1921_2650448	NC_021160.1	Ca_kabuli_chr01	2650448	GG	AA	1946720938
SNP_P4_1922_2651244	NC_021160.1	Ca_kabuli_chr01	2651244	TT	CC	1946720940
SNP_P4_1923_2651437	NC_021160.1	Ca_kabuli_chr01	2651437	GG	AA	1946720942
SNP_P4_1924_2651444	NC_021160.1	Ca_kabuli_chr01	2651444	CC	TT	1946720944
SNP_P4_1925_2651445	NC_021160.1	Ca_kabuli_chr01	2651445	AA	GG	1946720946
SNP_P4_1926_2651487	NC_021160.1	Ca_kabuli_chr01	2651487	TT	CC	1946720948
SNP_P4_1927_2651532	NC_021160.1	Ca_kabuli_chr01	2651532	TT	AA	1946720950
SNP_P4_1928_2651537	NC_021160.1	Ca_kabuli_chr01	2651537	CC	TT	1946720952
SNP_P4_1929_2652977	NC_021160.1	Ca_kabuli_chr01	2652977	GG	AA	1946720953
SNP_P4_1931_2655183	NC_021160.1	Ca_kabuli_chr01	2655183	CC	TT	1946720955
SNP_P4_1933_2655692	NC_021160.1	Ca_kabuli_chr01	2655692	GG	CC	1946720957
SNP_P4_1934_2655716	NC_021160.1	Ca_kabuli_chr01	2655716	TT	CC	1946720959
SNP_P4_1935_2655717	NC_021160.1	Ca_kabuli_chr01	2655717	AA	GG	1946720961
SNP_P4_1936_2655722	NC_021160.1	Ca_kabuli_chr01	2655722	TT	CC	1946720963
SNP_P4_1937_2655744	NC_021160.1	Ca_kabuli_chr01	2655744	TT	CC	1946720965
SNP_P4_1938_2656460	NC_021160.1	Ca_kabuli_chr01	2656460	AA	GG	1946720967
SNP_P4_1940_2656519	NC_021160.1	Ca_kabuli_chr01	2656519	TT	CC	1946720969
SNP_P4_1941_2656917	NC_021160.1	Ca_kabuli_chr01	2656917	TT	CC	1946720971
SNP_P4_1943_2658991	NC_021160.1	Ca_kabuli_chr01	2658991	CC	TT	1946720974
SNP_P4_1945_2659344	NC_021160.1	Ca_kabuli_chr01	2659344	TT	CC	1946720976
SNP_P4_1946_2659352	NC_021160.1	Ca_kabuli_chr01	2659352	TT	GG	1946720978

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_1947_2659369	NC_021160.1	Ca_kabuli_chr01	2659369	GG	AA	1946720980
SNP_P4_1948_2659385	NC_021160.1	Ca_kabuli_chr01	2659385	GG	AA	1946720982
SNP_P4_1950_2659993	NC_021160.1	Ca_kabuli_chr01	2659993	CC	TT	1946720984
SNP_P4_1951_2660058	NC_021160.1	Ca_kabuli_chr01	2660058	AA	GG	1946720985
SNP_P4_1952_2660070	NC_021160.1	Ca_kabuli_chr01	2660070	TT	CC	1946720987
SNP_P4_1953_2661102	NC_021160.1	Ca_kabuli_chr01	2661102	TT	AA	1946720989
SNP_P4_1954_2661153	NC_021160.1	Ca_kabuli_chr01	2661153	AA	CC	1946720991
SNP_P4_1955_2661237	NC_021160.1	Ca_kabuli_chr01	2661237	AA	TT	1946720993
SNP_P4_1956_2661239	NC_021160.1	Ca_kabuli_chr01	2661239	AA	GG	1946720995
SNP_P4_1957_2661245	NC_021160.1	Ca_kabuli_chr01	2661245	GG	AA	1946720997
SNP_P4_1958_2661259	NC_021160.1	Ca_kabuli_chr01	2661259	TT	AA	1946720999
SNP_P4_1959_2661266	NC_021160.1	Ca_kabuli_chr01	2661266	TT	CC	1946721001
SNP_P4_1960_2661268	NC_021160.1	Ca_kabuli_chr01	2661268	GG	AA	1946721003
SNP_P4_1961_2661297	NC_021160.1	Ca_kabuli_chr01	2661297	GG	AA	1946721005
SNP_P4_1962_2661315	NC_021160.1	Ca_kabuli_chr01	2661315	CC	TT	1946721007
SNP_P4_1964_2661527	NC_021160.1	Ca_kabuli_chr01	2661527	GG	AA	1946721009
SNP_P4_1965_2661534	NC_021160.1	Ca_kabuli_chr01	2661534	CC	TT	1946721011
SNP_P4_1966_2661567	NC_021160.1	Ca_kabuli_chr01	2661567	AA	GG	1946721014
SNP_P4_1967_2661575	NC_021160.1	Ca_kabuli_chr01	2661575	TT	CC	1946721016
SNP_P4_1968_2661619	NC_021160.1	Ca_kabuli_chr01	2661619	TT	CC	1946721018
SNP_P4_1969_2661714	NC_021160.1	Ca_kabuli_chr01	2661714	CC	AA	1946721020
SNP_P4_1970_2661896	NC_021160.1	Ca_kabuli_chr01	2661896	GG	AA	1946721022
SNP_P4_1971_2661905	NC_021160.1	Ca_kabuli_chr01	2661905	AA	GG	1946721024
SNP_P4_1972_2661909	NC_021160.1	Ca_kabuli_chr01	2661909	AA	GG	1946721026
SNP_P4_1974_2663798	NC_021160.1	Ca_kabuli_chr01	2663798	CC	AA	1946721029
SNP_P4_1976_2664804	NC_021160.1	Ca_kabuli_chr01	2664804	TT	CC	1946721031
SNP_P4_1977_2665011	NC_021160.1	Ca_kabuli_chr01	2665011	TT	CC	1946721033
SNP_P4_1978_2665045	NC_021160.1	Ca_kabuli_chr01	2665045	AA	GG	1946721035
SNP_P4_1979_2665877	NC_021160.1	Ca_kabuli_chr01	2665877	AA	GG	1946721037
SNP_P4_1980_2666168	NC_021160.1	Ca_kabuli_chr01	2666168	TT	GG	1946721039
SNP_P4_1981_2666249	NC_021160.1	Ca_kabuli_chr01	2666249	TT	AA	1946721041
SNP_P4_1983_2667229	NC_021160.1	Ca_kabuli_chr01	2667229	GG	AA	1946721043
SNP_P4_1984_2667902	NC_021160.1	Ca_kabuli_chr01	2667902	AA	GG	1946721045
SNP_P4_1985_2667903	NC_021160.1	Ca_kabuli_chr01	2667903	CC	AA	1946721047
SNP_P4_1986_2667933	NC_021160.1	Ca_kabuli_chr01	2667933	GG	AA	1946721049
SNP_P4_1988_2668184	NC_021160.1	Ca_kabuli_chr01	2668184	TT	CC	1946721051
SNP_P4_1989_2668554	NC_021160.1	Ca_kabuli_chr01	2668554	AA	GG	1946721053
SNP_P4_1990_2669221	NC_021160.1	Ca_kabuli_chr01	2669221	GG	TT	1946721055
SNP_P4_1991_2669222	NC_021160.1	Ca_kabuli_chr01	2669222	AA	TT	1946721057
SNP_P4_1992_2669250	NC_021160.1	Ca_kabuli_chr01	2669250	CC	TT	1946721059
SNP_P4_1994_2669386	NC_021160.1	Ca_kabuli_chr01	2669386	CC	TT	1946721061
SNP_P4_1995_2669394	NC_021160.1	Ca_kabuli_chr01	2669394	AA	GG	1946721063

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_1996_2669565	NC_021160.1	Ca_kabuli_chr01	2669565	AA	TT	1946721065
SNP_P4_1997_2669572	NC_021160.1	Ca_kabuli_chr01	2669572	TT	CC	1946721067
SNP_P4_1998_2669844	NC_021160.1	Ca_kabuli_chr01	2669844	CC	TT	1946721069
SNP_P4_2000_2671988	NC_021160.1	Ca_kabuli_chr01	2671988	TT	CC	1946721071
SNP_P4_2001_2672088	NC_021160.1	Ca_kabuli_chr01	2672088	CC	GG	1946721073
SNP_P4_2002_2672089	NC_021160.1	Ca_kabuli_chr01	2672089	GG	TT	1946721075
SNP_P4_2003_2672128	NC_021160.1	Ca_kabuli_chr01	2672128	GG	CC	1946721077
SNP_P4_2004_2673535	NC_021160.1	Ca_kabuli_chr01	2673535	GG	AA	1946721080
SNP_P4_2005_2673538	NC_021160.1	Ca_kabuli_chr01	2673538	TT	AA	1946721082
SNP_P4_2006_2673600	NC_021160.1	Ca_kabuli_chr01	2673600	AA	CC	1946721084
SNP_P4_2007_2673780	NC_021160.1	Ca_kabuli_chr01	2673780	TT	AA	1946721086
SNP_P4_2008_2673786	NC_021160.1	Ca_kabuli_chr01	2673786	TT	AA	1946721088
SNP_P4_2009_2673838	NC_021160.1	Ca_kabuli_chr01	2673838	GG	AA	1946721090
SNP_P4_2010_2673853	NC_021160.1	Ca_kabuli_chr01	2673853	CC	TT	1946721092
SNP_P4_2011_2673896	NC_021160.1	Ca_kabuli_chr01	2673896	GG	TT	1946721094
SNP_P4_2012_2673969	NC_021160.1	Ca_kabuli_chr01	2673969	CC	AA	1946721096
SNP_P4_2013_2674128	NC_021160.1	Ca_kabuli_chr01	2674128	AA	CC	1946721098
SNP_P4_2014_2674501	NC_021160.1	Ca_kabuli_chr01	2674501	TT	CC	1946721100
SNP_P4_2016_2674754	NC_021160.1	Ca_kabuli_chr01	2674754	TT	AA	1946721102
SNP_P4_2017_2676058	NC_021160.1	Ca_kabuli_chr01	2676058	GG	AA	1946721104
SNP_P4_2019_2677069	NC_021160.1	Ca_kabuli_chr01	2677069	AA	TT	1946721107
SNP_P4_2020_2677876	NC_021160.1	Ca_kabuli_chr01	2677876	CC	TT	1946721109
SNP_P4_2021_2678287	NC_021160.1	Ca_kabuli_chr01	2678287	AA	TT	1946721111
SNP_P4_2022_2678805	NC_021160.1	Ca_kabuli_chr01	2678805	GG	AA	1946721113
SNP_P4_2024_2679046	NC_021160.1	Ca_kabuli_chr01	2679046	TT	CC	1946721115
SNP_P4_2025_2679064	NC_021160.1	Ca_kabuli_chr01	2679064	CC	TT	1946721117
SNP_P4_2026_2679075	NC_021160.1	Ca_kabuli_chr01	2679075	AA	TT	1946721119
SNP_P4_2027_2679085	NC_021160.1	Ca_kabuli_chr01	2679085	CC	TT	1946721121
SNP_P4_2028_2679123	NC_021160.1	Ca_kabuli_chr01	2679123	CC	AA	1946721124
SNP_P4_2029_2679527	NC_021160.1	Ca_kabuli_chr01	2679527	AA	TT	1946721126
SNP_P4_2030_2679942	NC_021160.1	Ca_kabuli_chr01	2679942	AA	TT	1946721128
SNP_P4_2031_2682074	NC_021160.1	Ca_kabuli_chr01	2682074	TT	AA	1946721130
SNP_P4_2032_2682379	NC_021160.1	Ca_kabuli_chr01	2682379	GG	AA	1946721132
SNP_P4_2033_2682381	NC_021160.1	Ca_kabuli_chr01	2682381	GG	AA	1946721134
SNP_P4_2034_2682387	NC_021160.1	Ca_kabuli_chr01	2682387	GG	CC	1946721136
SNP_P4_2035_2682402	NC_021160.1	Ca_kabuli_chr01	2682402	TT	CC	1946721138
SNP_P4_2036_2682404	NC_021160.1	Ca_kabuli_chr01	2682404	TT	CC	1946721140
SNP_P4_2037_2682405	NC_021160.1	Ca_kabuli_chr01	2682405	AA	GG	1946721142
SNP_P4_2038_2682411	NC_021160.1	Ca_kabuli_chr01	2682411	TT	AA	1946721144
SNP_P4_2039_2684830	NC_021160.1	Ca_kabuli_chr01	2684830	TT	CC	1946721146
SNP_P4_2040_2684836	NC_021160.1	Ca_kabuli_chr01	2684836	AA	TT	1946721148
SNP_P4_2041_2684843	NC_021160.1	Ca_kabuli_chr01	2684843	CC	GG	1946721150

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_2042_2685095	NC_021160.1	Ca_kabuli_chr01	2685095	TT	AA	1946721152
SNP_P4_2043_2685099	NC_021160.1	Ca_kabuli_chr01	2685099	CC	AA	1946721154
SNP_P4_2044_2685126	NC_021160.1	Ca_kabuli_chr01	2685126	AA	TT	1946721156
SNP_P4_2045_2685143	NC_021160.1	Ca_kabuli_chr01	2685143	GG	AA	1946721159
SNP_P4_2046_2686205	NC_021160.1	Ca_kabuli_chr01	2686205	CC	TT	1946721161
SNP_P4_2049_2687189	NC_021160.1	Ca_kabuli_chr01	2687189	GG	CC	1946721163
SNP_P4_2050_2688639	NC_021160.1	Ca_kabuli_chr01	2688639	GG	AA	1946721165
SNP_P4_2052_2692124	NC_021160.1	Ca_kabuli_chr01	2692124	TT	CC	1946721167
SNP_P4_2054_2692373	NC_021160.1	Ca_kabuli_chr01	2692373	TT	CC	1946721169
SNP_P4_2055_2692408	NC_021160.1	Ca_kabuli_chr01	2692408	AA	GG	1946721171
SNP_P4_2056_2692422	NC_021160.1	Ca_kabuli_chr01	2692422	TT	CC	1946721173
SNP_P4_2057_2692561	NC_021160.1	Ca_kabuli_chr01	2692561	CC	GG	1946721175
SNP_P4_2058_2692718	NC_021160.1	Ca_kabuli_chr01	2692718	CC	AA	1946721177
SNP_P4_2059_2692759	NC_021160.1	Ca_kabuli_chr01	2692759	GG	AA	1946721179
SNP_P4_2060_2692775	NC_021160.1	Ca_kabuli_chr01	2692775	AA	TT	1946721181
SNP_P4_2063_2694279	NC_021160.1	Ca_kabuli_chr01	2694279	CC	GG	1946721183
SNP_P4_2064_2695079	NC_021160.1	Ca_kabuli_chr01	2695079	AA	GG	1946721185
SNP_P4_2065_2695115	NC_021160.1	Ca_kabuli_chr01	2695115	AA	GG	1946721187
SNP_P4_2066_2695205	NC_021160.1	Ca_kabuli_chr01	2695205	CC	GG	1946721189
SNP_P4_2067_2695539	NC_021160.1	Ca_kabuli_chr01	2695539	CC	GG	1946721191
SNP_P4_2068_2697954	NC_021160.1	Ca_kabuli_chr01	2697954	TT	CC	1946721193
SNP_P4_2069_2697961	NC_021160.1	Ca_kabuli_chr01	2697961	CC	TT	1946721195
SNP_P4_2070_2700457	NC_021160.1	Ca_kabuli_chr01	2700457	AA	CC	1946721197
SNP_P4_2071_2700477	NC_021160.1	Ca_kabuli_chr01	2700477	CC	TT	1946721199
SNP_P4_2072_2700529	NC_021160.1	Ca_kabuli_chr01	2700529	AA	GG	1946721201
SNP_P4_2073_2700554	NC_021160.1	Ca_kabuli_chr01	2700554	AA	CC	1946721203
SNP_P4_2074_2700555	NC_021160.1	Ca_kabuli_chr01	2700555	CC	TT	1946721205
SNP_P4_2075_2700744	NC_021160.1	Ca_kabuli_chr01	2700744	GG	AA	1946721207
SNP_P4_2076_2700759	NC_021160.1	Ca_kabuli_chr01	2700759	AA	GG	1946721209
SNP_P4_2077_2700766	NC_021160.1	Ca_kabuli_chr01	2700766	CC	TT	1946721211
SNP_P4_2078_2700774	NC_021160.1	Ca_kabuli_chr01	2700774	TT	CC	1946721213
SNP_P4_2079_2700776	NC_021160.1	Ca_kabuli_chr01	2700776	GG	AA	1946721215
SNP_P4_2080_2700815	NC_021160.1	Ca_kabuli_chr01	2700815	AA	GG	1946721217
SNP_P4_2081_2700821	NC_021160.1	Ca_kabuli_chr01	2700821	GG	AA	1946721219
SNP_P4_2082_2700867	NC_021160.1	Ca_kabuli_chr01	2700867	GG	AA	1946721221
SNP_P4_2083_2700926	NC_021160.1	Ca_kabuli_chr01	2700926	AA	GG	1946721223
SNP_P4_2084_2700932	NC_021160.1	Ca_kabuli_chr01	2700932	CC	AA	1946721225
SNP_P4_2085_2700998	NC_021160.1	Ca_kabuli_chr01	2700998	CC	GG	1946721227
SNP_P4_2086_2701000	NC_021160.1	Ca_kabuli_chr01	2701000	TT	AA	1946721230
SNP_P4_2087_2701012	NC_021160.1	Ca_kabuli_chr01	2701012	CC	GG	1946721232
SNP_P4_2088_2701240	NC_021160.1	Ca_kabuli_chr01	2701240	AA	TT	1946721234
SNP_P4_2089_2703473	NC_021160.1	Ca_kabuli_chr01	2703473	TT	GG	1946721236

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_2090_2703684	NC_021160.1	Ca_kabuli_chr01	2703684	TT	CC	1946721238
SNP_P4_2091_2703709	NC_021160.1	Ca_kabuli_chr01	2703709	TT	GG	1946721240
SNP_P4_2092_2703719	NC_021160.1	Ca_kabuli_chr01	2703719	AA	CC	1946721242
SNP_P4_2093_2703720	NC_021160.1	Ca_kabuli_chr01	2703720	AA	CC	1946721244
SNP_P4_2094_2703728	NC_021160.1	Ca_kabuli_chr01	2703728	AA	GG	1946721246
SNP_P4_2095_2703729	NC_021160.1	Ca_kabuli_chr01	2703729	CC	TT	1946721248
SNP_P4_2096_2703802	NC_021160.1	Ca_kabuli_chr01	2703802	GG	AA	1946721250
SNP_P4_2097_2704041	NC_021160.1	Ca_kabuli_chr01	2704041	CC	TT	1946721252
SNP_P4_2099_2704240	NC_021160.1	Ca_kabuli_chr01	2704240	AA	GG	1946721254
SNP_P4_2100_2704247	NC_021160.1	Ca_kabuli_chr01	2704247	AA	GG	1946721256
SNP_P4_2101_2704782	NC_021160.1	Ca_kabuli_chr01	2704782	TT	AA	1946721258
SNP_P4_2102_2708464	NC_021160.1	Ca_kabuli_chr01	2708464	GG	AA	1946721260
SNP_P4_2103_2712070	NC_021160.1	Ca_kabuli_chr01	2712070	AA	CC	1946721262
SNP_P4_2104_2712087	NC_021160.1	Ca_kabuli_chr01	2712087	GG	AA	1946721264
SNP_P4_2105_2712089	NC_021160.1	Ca_kabuli_chr01	2712089	AA	CC	1946721266
SNP_P4_2106_2720332	NC_021160.1	Ca_kabuli_chr01	2720332	CC	TT	1946721268
SNP_P4_2107_2724251	NC_021160.1	Ca_kabuli_chr01	2724251	TT	GG	1946721270
SNP_P4_2109_2726742	NC_021160.1	Ca_kabuli_chr01	2726742	TT	CC	1946721272
SNP_P4_2111_2728114	NC_021160.1	Ca_kabuli_chr01	2728114	TT	CC	1946721275
SNP_P4_2112_2728115	NC_021160.1	Ca_kabuli_chr01	2728115	TT	GG	1946721277
SNP_P4_2113_2728144	NC_021160.1	Ca_kabuli_chr01	2728144	GG	CC	1946721279
SNP_P4_2114_2728152	NC_021160.1	Ca_kabuli_chr01	2728152	CC	TT	1946721281
SNP_P4_2115_2728154	NC_021160.1	Ca_kabuli_chr01	2728154	AA	CC	1946721283
SNP_P4_2116_2728536	NC_021160.1	Ca_kabuli_chr01	2728536	AA	GG	1946721285
SNP_P4_2117_2728645	NC_021160.1	Ca_kabuli_chr01	2728645	GG	CC	1946721288
SNP_P4_2118_2728894	NC_021160.1	Ca_kabuli_chr01	2728894	TT	GG	1946721290
SNP_P4_2119_2728912	NC_021160.1	Ca_kabuli_chr01	2728912	GG	TT	1946721293
SNP_P4_2120_2729015	NC_021160.1	Ca_kabuli_chr01	2729015	CC	AA	1946721295
SNP_P4_2121_2729053	NC_021160.1	Ca_kabuli_chr01	2729053	GG	TT	1946721297
SNP_P4_2122_2730646	NC_021160.1	Ca_kabuli_chr01	2730646	CC	GG	1946721300
SNP_P4_2123_2730812	NC_021160.1	Ca_kabuli_chr01	2730812	TT	AA	1946721302
SNP_P4_2124_2731100	NC_021160.1	Ca_kabuli_chr01	2731100	AA	GG	1946721304
SNP_P4_2126_2745748	NC_021160.1	Ca_kabuli_chr01	2745748	TT	CC	1946721306
SNP_P4_2127_2745771	NC_021160.1	Ca_kabuli_chr01	2745771	CC	TT	1946721308
SNP_P4_2128_2760060	NC_021160.1	Ca_kabuli_chr01	2760060	CC	TT	1946721310
SNP_P4_2129_2760063	NC_021160.1	Ca_kabuli_chr01	2760063	AA	TT	1946721312
SNP_P4_2130_2760343	NC_021160.1	Ca_kabuli_chr01	2760343	CC	TT	1946721314
SNP_P4_2131_2760369	NC_021160.1	Ca_kabuli_chr01	2760369	TT	CC	1946721316
SNP_P4_2132_2760373	NC_021160.1	Ca_kabuli_chr01	2760373	TT	AA	1946721318
SNP_P4_2133_2760468	NC_021160.1	Ca_kabuli_chr01	2760468	GG	AA	1946721320
SNP_P4_2134_2760801	NC_021160.1	Ca_kabuli_chr01	2760801	GG	AA	1946721322
SNP_P4_2135_2760809	NC_021160.1	Ca_kabuli_chr01	2760809	CC	AA	1946721324

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_2136_2761078	NC_021160.1	Ca_kabuli_chr01	2761078	TT	AA	1946721326
SNP_P4_2137_2761106	NC_021160.1	Ca_kabuli_chr01	2761106	AA	GG	1946721328
SNP_P4_2139_2761154	NC_021160.1	Ca_kabuli_chr01	2761154	AA	TT	1946721330
SNP_P4_2140_2761252	NC_021160.1	Ca_kabuli_chr01	2761252	TT	GG	1946721332
SNP_P4_2141_2761371	NC_021160.1	Ca_kabuli_chr01	2761371	TT	AA	1946721334
SNP_P4_2142_2761693	NC_021160.1	Ca_kabuli_chr01	2761693	CC	TT	1946721336
SNP_P4_2143_2762093	NC_021160.1	Ca_kabuli_chr01	2762093	GG	CC	1946721338
SNP_P4_2144_2762111	NC_021160.1	Ca_kabuli_chr01	2762111	TT	CC	1946721340
SNP_P4_2145_2762112	NC_021160.1	Ca_kabuli_chr01	2762112	AA	TT	1946721342
SNP_P4_2146_2762167	NC_021160.1	Ca_kabuli_chr01	2762167	TT	CC	1946721344
SNP_P4_2147_2762420	NC_021160.1	Ca_kabuli_chr01	2762420	AA	CC	1946721346
SNP_P4_2149_2762581	NC_021160.1	Ca_kabuli_chr01	2762581	AA	GG	1946721348
SNP_P4_2150_2762586	NC_021160.1	Ca_kabuli_chr01	2762586	GG	TT	1946721350
SNP_P4_2151_2762629	NC_021160.1	Ca_kabuli_chr01	2762629	GG	AA	1946721352
SNP_P4_2152_2764070	NC_021160.1	Ca_kabuli_chr01	2764070	TT	AA	1946721354
SNP_P4_2153_2764672	NC_021160.1	Ca_kabuli_chr01	2764672	GG	TT	1946721356
SNP_P4_2154_2765239	NC_021160.1	Ca_kabuli_chr01	2765239	TT	CC	1946721358
SNP_P4_2155_2765296	NC_021160.1	Ca_kabuli_chr01	2765296	CC	GG	1946721360
SNP_P4_2157_2765330	NC_021160.1	Ca_kabuli_chr01	2765330	GG	TT	1946721362
SNP_P4_2159_2765580	NC_021160.1	Ca_kabuli_chr01	2765580	GG	AA	1946721364
SNP_P4_2160_2765588	NC_021160.1	Ca_kabuli_chr01	2765588	GG	AA	1946721366
SNP_P4_2161_2765595	NC_021160.1	Ca_kabuli_chr01	2765595	TT	CC	1946721368
SNP_P4_2163_2765852	NC_021160.1	Ca_kabuli_chr01	2765852	CC	TT	1946721370
SNP_P4_2164_2765862	NC_021160.1	Ca_kabuli_chr01	2765862	CC	TT	1946721372
SNP_P4_2169_2766718	NC_021160.1	Ca_kabuli_chr01	2766718	TT	AA	1946721374
SNP_P4_2170_2766738	NC_021160.1	Ca_kabuli_chr01	2766738	GG	AA	1946721375
SNP_P4_2171_2766974	NC_021160.1	Ca_kabuli_chr01	2766974	TT	AA	1946721377
SNP_P4_2172_2769065	NC_021160.1	Ca_kabuli_chr01	2769065	AA	GG	1946721379
SNP_P4_2173_2769134	NC_021160.1	Ca_kabuli_chr01	2769134	AA	GG	1946721381
SNP_P4_2174_2769156	NC_021160.1	Ca_kabuli_chr01	2769156	CC	TT	1946721383
SNP_P4_2175_2769332	NC_021160.1	Ca_kabuli_chr01	2769332	AA	GG	1946721385
SNP_P4_2176_2769374	NC_021160.1	Ca_kabuli_chr01	2769374	GG	AA	1946721387
SNP_P4_2177_2772515	NC_021160.1	Ca_kabuli_chr01	2772515	GG	AA	1946721389
SNP_P4_2178_2772709	NC_021160.1	Ca_kabuli_chr01	2772709	CC	GG	1946721391
SNP_P4_2180_2772936	NC_021160.1	Ca_kabuli_chr01	2772936	GG	CC	1946721393
SNP_P4_2181_2772957	NC_021160.1	Ca_kabuli_chr01	2772957	CC	TT	1946721395
SNP_P4_2182_2773060	NC_021160.1	Ca_kabuli_chr01	2773060	AA	GG	1946721397
SNP_P4_2183_2773117	NC_021160.1	Ca_kabuli_chr01	2773117	TT	AA	1946721399
SNP_P4_2184_2773144	NC_021160.1	Ca_kabuli_chr01	2773144	TT	GG	1946721401
SNP_P4_2185_2773267	NC_021160.1	Ca_kabuli_chr01	2773267	GG	TT	1946721403
SNP_P4_2186_2774646	NC_021160.1	Ca_kabuli_chr01	2774646	AA	GG	1946721405
SNP_P4_2187_2778169	NC_021160.1	Ca_kabuli_chr01	2778169	AA	GG	1946721407

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_2189_2782318	NC_021160.1	Ca_kabuli_chr01	2782318	GG	AA	1946721411
SNP_P4_2190_2787651	NC_021160.1	Ca_kabuli_chr01	2787651	CC	TT	1946721413
SNP_P4_2191_2789656	NC_021160.1	Ca_kabuli_chr01	2789656	AA	TT	1946721415
SNP_P4_2192_2790504	NC_021160.1	Ca_kabuli_chr01	2790504	CC	TT	1946721417
SNP_P4_2195_2791745	NC_021160.1	Ca_kabuli_chr01	2791745	GG	AA	1946721419
SNP_P4_2196_2791756	NC_021160.1	Ca_kabuli_chr01	2791756	CC	TT	1946721421
SNP_P4_2197_2791758	NC_021160.1	Ca_kabuli_chr01	2791758	TT	CC	1946721424
SNP_P4_2198_2795899	NC_021160.1	Ca_kabuli_chr01	2795899	AA	TT	1946721426
SNP_P4_2199_2795912	NC_021160.1	Ca_kabuli_chr01	2795912	CC	TT	1946721428
SNP_P4_2200_2795927	NC_021160.1	Ca_kabuli_chr01	2795927	AA	GG	1946721430
SNP_P4_2201_2795960	NC_021160.1	Ca_kabuli_chr01	2795960	CC	TT	1946721432
SNP_P4_2202_2796205	NC_021160.1	Ca_kabuli_chr01	2796205	AA	GG	1946721434
SNP_P4_2204_2796687	NC_021160.1	Ca_kabuli_chr01	2796687	GG	AA	1946721436
SNP_P4_2206_2797295	NC_021160.1	Ca_kabuli_chr01	2797295	CC	TT	1946721438
SNP_P4_2208_2797340	NC_021160.1	Ca_kabuli_chr01	2797340	AA	GG	1946721439
SNP_P4_2209_2797524	NC_021160.1	Ca_kabuli_chr01	2797524	TT	CC	1946721440
SNP_P4_2210_2797528	NC_021160.1	Ca_kabuli_chr01	2797528	GG	AA	1946721441
SNP_P4_2211_2797531	NC_021160.1	Ca_kabuli_chr01	2797531	GG	AA	1946721442
SNP_P4_2212_2797550	NC_021160.1	Ca_kabuli_chr01	2797550	AA	GG	1946721443
SNP_P4_2213_2797602	NC_021160.1	Ca_kabuli_chr01	2797602	GG	AA	1946721444
SNP_P4_2214_2797661	NC_021160.1	Ca_kabuli_chr01	2797661	GG	AA	1946721445
SNP_P4_2216_2797704	NC_021160.1	Ca_kabuli_chr01	2797704	TT	AA	1946721446
SNP_P4_2219_2799231	NC_021160.1	Ca_kabuli_chr01	2799231	CC	TT	1946721447
SNP_P4_2220_2799259	NC_021160.1	Ca_kabuli_chr01	2799259	GG	AA	1946721449
SNP_P4_2221_2799262	NC_021160.1	Ca_kabuli_chr01	2799262	TT	AA	1946721451
SNP_P4_2222_2799304	NC_021160.1	Ca_kabuli_chr01	2799304	TT	AA	1946721453
SNP_P4_2223_2800520	NC_021160.1	Ca_kabuli_chr01	2800520	GG	AA	1946721455
SNP_P4_2224_2802101	NC_021160.1	Ca_kabuli_chr01	2802101	AA	GG	1946721457
SNP_P4_2225_2802110	NC_021160.1	Ca_kabuli_chr01	2802110	CC	TT	1946721459
SNP_P4_2226_2802115	NC_021160.1	Ca_kabuli_chr01	2802115	GG	AA	1946721460
SNP_P4_2227_2802134	NC_021160.1	Ca_kabuli_chr01	2802134	GG	AA	1946721463
SNP_P4_2229_2802340	NC_021160.1	Ca_kabuli_chr01	2802340	CC	TT	1946721465
SNP_P4_2230_2802348	NC_021160.1	Ca_kabuli_chr01	2802348	CC	AA	1946721467
SNP_P4_2231_2802352	NC_021160.1	Ca_kabuli_chr01	2802352	CC	AA	1946721469
SNP_P4_2232_2802354	NC_021160.1	Ca_kabuli_chr01	2802354	CC	GG	1946721471
SNP_P4_2233_2802362	NC_021160.1	Ca_kabuli_chr01	2802362	GG	CC	1946721473
SNP_P4_2235_2802664	NC_021160.1	Ca_kabuli_chr01	2802664	AA	GG	1946721475
SNP_P4_2236_2802799	NC_021160.1	Ca_kabuli_chr01	2802799	AA	TT	1946721476
SNP_P4_2237_2802800	NC_021160.1	Ca_kabuli_chr01	2802800	GG	AA	1946721478
SNP_P4_2238_2802834	NC_021160.1	Ca_kabuli_chr01	2802834	GG	AA	1946721480
SNP_P4_2239_2802867	NC_021160.1	Ca_kabuli_chr01	2802867	AA	GG	1946721482

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_2241_2802950	NC_021160.1	Ca_kabuli_chr01	2802950	AA	GG	1946721486
SNP_P4_2242_2802952	NC_021160.1	Ca_kabuli_chr01	2802952	CC	AA	1946721488
SNP_P4_2243_2803016	NC_021160.1	Ca_kabuli_chr01	2803016	AA	GG	1946721490
SNP_P4_2244_2803054	NC_021160.1	Ca_kabuli_chr01	2803054	CC	TT	1946721491
SNP_P4_2245_2803069	NC_021160.1	Ca_kabuli_chr01	2803069	TT	CC	1946721492
SNP_P4_2246_2803129	NC_021160.1	Ca_kabuli_chr01	2803129	CC	TT	1946721494
SNP_P4_2247_2803154	NC_021160.1	Ca_kabuli_chr01	2803154	GG	AA	1946721495
SNP_P4_2248_2803181	NC_021160.1	Ca_kabuli_chr01	2803181	CC	TT	1946721496
SNP_P4_2249_2803183	NC_021160.1	Ca_kabuli_chr01	2803183	GG	AA	1946721498
SNP_P4_2250_2803184	NC_021160.1	Ca_kabuli_chr01	2803184	CC	TT	1946721500
SNP_P4_2251_2803286	NC_021160.1	Ca_kabuli_chr01	2803286	AA	GG	1946721502
SNP_P4_2252_2803326	NC_021160.1	Ca_kabuli_chr01	2803326	AA	GG	1946721504
SNP_P4_2254_2803391	NC_021160.1	Ca_kabuli_chr01	2803391	GG	AA	1946721506
SNP_P4_2256_2803410	NC_021160.1	Ca_kabuli_chr01	2803410	TT	AA	1946721508
SNP_P4_2257_2803436	NC_021160.1	Ca_kabuli_chr01	2803436	CC	TT	1946721510
SNP_P4_2258_2803440	NC_021160.1	Ca_kabuli_chr01	2803440	AA	GG	1946721512
SNP_P4_2259_2803480	NC_021160.1	Ca_kabuli_chr01	2803480	AA	CC	1946721514
SNP_P4_2260_2803483	NC_021160.1	Ca_kabuli_chr01	2803483	GG	AA	1946721516
SNP_P4_2262_2809445	NC_021160.1	Ca_kabuli_chr01	2809445	AA	TT	1946721518
SNP_P4_2263_2810473	NC_021160.1	Ca_kabuli_chr01	2810473	GG	AA	1946721519
SNP_P4_2264_2810476	NC_021160.1	Ca_kabuli_chr01	2810476	GG	AA	1946721521
SNP_P4_2266_2814016	NC_021160.1	Ca_kabuli_chr01	2814016	TT	GG	1946721523
SNP_P4_2267_2814429	NC_021160.1	Ca_kabuli_chr01	2814429	AA	GG	1946721525
SNP_P4_2268_2814901	NC_021160.1	Ca_kabuli_chr01	2814901	CC	AA	1946721527
SNP_P4_2269_2814918	NC_021160.1	Ca_kabuli_chr01	2814918	TT	CC	1946721529
SNP_P4_2270_2814921	NC_021160.1	Ca_kabuli_chr01	2814921	TT	CC	1946721531
SNP_P4_2271_2814948	NC_021160.1	Ca_kabuli_chr01	2814948	CC	TT	1946721533
SNP_P4_2272_2814972	NC_021160.1	Ca_kabuli_chr01	2814972	TT	CC	1946721535
SNP_P4_2274_2815008	NC_021160.1	Ca_kabuli_chr01	2815008	AA	TT	1946721537
SNP_P4_2275_2815010	NC_021160.1	Ca_kabuli_chr01	2815010	AA	CC	1946721539
SNP_P4_2276_2815135	NC_021160.1	Ca_kabuli_chr01	2815135	TT	CC	1946721542
SNP_P4_2277_2815211	NC_021160.1	Ca_kabuli_chr01	2815211	CC	GG	1946721544
SNP_P4_2278_2826745	NC_021160.1	Ca_kabuli_chr01	2826745	CC	TT	1946721546
SNP_P4_2279_2826768	NC_021160.1	Ca_kabuli_chr01	2826768	GG	AA	1946721548
SNP_P4_2282_2827594	NC_021160.1	Ca_kabuli_chr01	2827594	GG	AA	1946721550
SNP_P4_2283_2829335	NC_021160.1	Ca_kabuli_chr01	2829335	TT	CC	1946721552
SNP_P4_2284_2829336	NC_021160.1	Ca_kabuli_chr01	2829336	TT	CC	1946721554
SNP_P4_2286_2829923	NC_021160.1	Ca_kabuli_chr01	2829923	AA	TT	1946721556
SNP_P4_2287_2830065	NC_021160.1	Ca_kabuli_chr01	2830065	GG	AA	1946721558
SNP_P4_2288_2830832	NC_021160.1	Ca_kabuli_chr01	2830832	AA	GG	1946721560
SNP_P4_2289_2830842	NC_021160.1	Ca_kabuli_chr01	2830842	GG	AA	1946721562

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_2291_2830932	NC_021160.1	Ca_kabuli_chr01	2830932	CC	TT	1946721567
SNP_P4_2292_2830942	NC_021160.1	Ca_kabuli_chr01	2830942	CC	TT	1946721569
SNP_P4_2293_2830960	NC_021160.1	Ca_kabuli_chr01	2830960	AA	TT	1946721571
SNP_P4_2294_2831002	NC_021160.1	Ca_kabuli_chr01	2831002	GG	CC	1946721573
SNP_P4_2295_2831200	NC_021160.1	Ca_kabuli_chr01	2831200	GG	AA	1946721575
SNP_P4_2296_2831409	NC_021160.1	Ca_kabuli_chr01	2831409	AA	CC	1946721577
SNP_P4_2297_2831436	NC_021160.1	Ca_kabuli_chr01	2831436	AA	GG	1946721579
SNP_P4_2300_2834171	NC_021160.1	Ca_kabuli_chr01	2834171	GG	AA	1946721581
SNP_P4_2301_2834216	NC_021160.1	Ca_kabuli_chr01	2834216	TT	AA	1946721583
SNP_P4_2302_2834456	NC_021160.1	Ca_kabuli_chr01	2834456	AA	TT	1946721585
SNP_P4_2303_2835580	NC_021160.1	Ca_kabuli_chr01	2835580	AA	GG	1946721587
SNP_P4_2305_2837698	NC_021160.1	Ca_kabuli_chr01	2837698	GG	TT	1946721589
SNP_P4_2306_2838219	NC_021160.1	Ca_kabuli_chr01	2838219	CC	GG	1946721592
SNP_P4_2307_2838540	NC_021160.1	Ca_kabuli_chr01	2838540	AA	TT	1946721594
SNP_P4_2309_2841105	NC_021160.1	Ca_kabuli_chr01	2841105	CC	TT	1946721596
SNP_P4_2311_2843461	NC_021160.1	Ca_kabuli_chr01	2843461	CC	AA	1946721597
SNP_P4_2312_2843462	NC_021160.1	Ca_kabuli_chr01	2843462	CC	TT	1946721599
SNP_P4_2314_2843493	NC_021160.1	Ca_kabuli_chr01	2843493	AA	GG	1946721602
SNP_P4_2316_2844373	NC_021160.1	Ca_kabuli_chr01	2844373	CC	TT	1946721604
SNP_P4_2317_2844831	NC_021160.1	Ca_kabuli_chr01	2844831	AA	TT	1946721606
SNP_P4_2318_2844960	NC_021160.1	Ca_kabuli_chr01	2844960	GG	AA	1946721608
SNP_P4_2319_2844963	NC_021160.1	Ca_kabuli_chr01	2844963	AA	GG	1946721610
SNP_P4_2320_2844978	NC_021160.1	Ca_kabuli_chr01	2844978	TT	AA	1946721612
SNP_P4_2321_2844999	NC_021160.1	Ca_kabuli_chr01	2844999	AA	TT	1946721615
SNP_P4_2322_2845017	NC_021160.1	Ca_kabuli_chr01	2845017	AA	GG	1946721617
SNP_P4_2323_2845033	NC_021160.1	Ca_kabuli_chr01	2845033	GG	AA	1946721619
SNP_P4_2325_2845126	NC_021160.1	Ca_kabuli_chr01	2845126	GG	AA	1946721621
SNP_P4_2326_2845148	NC_021160.1	Ca_kabuli_chr01	2845148	GG	AA	1946721623
SNP_P4_2328_2845192	NC_021160.1	Ca_kabuli_chr01	2845192	TT	CC	1946721625
SNP_P4_2329_2845301	NC_021160.1	Ca_kabuli_chr01	2845301	TT	CC	1946721627
SNP_P4_2330_2845341	NC_021160.1	Ca_kabuli_chr01	2845341	CC	TT	1946721629
SNP_P4_2332_2845454	NC_021160.1	Ca_kabuli_chr01	2845454	TT	AA	1946721631
SNP_P4_2333_2845460	NC_021160.1	Ca_kabuli_chr01	2845460	TT	CC	1946721633
SNP_P4_2334_2845465	NC_021160.1	Ca_kabuli_chr01	2845465	CC	GG	1946721636
SNP_P4_2335_2845491	NC_021160.1	Ca_kabuli_chr01	2845491	AA	CC	1946721638
SNP_P4_2336_2845526	NC_021160.1	Ca_kabuli_chr01	2845526	TT	GG	1946721640
SNP_P4_2337_2845665	NC_021160.1	Ca_kabuli_chr01	2845665	CC	GG	1946721642
SNP_P4_2338_2845669	NC_021160.1	Ca_kabuli_chr01	2845669	TT	AA	1946721644
SNP_P4_2339_2845827	NC_021160.1	Ca_kabuli_chr01	2845827	AA	GG	1946721646
SNP_P4_2340_2845882	NC_021160.1	Ca_kabuli_chr01	2845882	AA	GG	1946721648
SNP_P4_2341_2845909	NC_021160.1	Ca_kabuli_chr01	2845909	CC	TT	1946721650

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_2342_2845919	NC_021160.1	Ca_kabuli_chr01	2845919	AA	CC	1946721653
SNP_P4_2345_2846225	NC_021160.1	Ca_kabuli_chr01	2846225	GG	AA	1946721655
SNP_P4_2346_2847790	NC_021160.1	Ca_kabuli_chr01	2847790	TT	CC	1946721657
SNP_P4_2347_2848032	NC_021160.1	Ca_kabuli_chr01	2848032	GG	AA	1946721659
SNP_P4_2348_2849389	NC_021160.1	Ca_kabuli_chr01	2849389	GG	AA	1946721661
SNP_P4_2349_2849395	NC_021160.1	Ca_kabuli_chr01	2849395	AA	GG	1946721663
SNP_P4_2350_2849901	NC_021160.1	Ca_kabuli_chr01	2849901	AA	GG	1946721666
SNP_P4_2351_2849939	NC_021160.1	Ca_kabuli_chr01	2849939	CC	TT	1946721668
SNP_P4_2352_2849977	NC_021160.1	Ca_kabuli_chr01	2849977	GG	AA	1946721669
SNP_P4_2353_2851732	NC_021160.1	Ca_kabuli_chr01	2851732	AA	GG	1946721670
SNP_P4_2354_2852034	NC_021160.1	Ca_kabuli_chr01	2852034	CC	AA	1946721671
SNP_P4_2355_2852721	NC_021160.1	Ca_kabuli_chr01	2852721	TT	AA	1946721672
SNP_P4_2356_2855927	NC_021160.1	Ca_kabuli_chr01	2855927	AA	TT	1946721673
SNP_P4_2357_2856003	NC_021160.1	Ca_kabuli_chr01	2856003	CC	TT	1946721675
SNP_P4_2358_2856079	NC_021160.1	Ca_kabuli_chr01	2856079	TT	GG	1946721677
SNP_P4_2359_2858621	NC_021160.1	Ca_kabuli_chr01	2858621	CC	TT	1946721679
SNP_P4_2360_2858679	NC_021160.1	Ca_kabuli_chr01	2858679	AA	GG	1946721681
SNP_P4_2361_2858706	NC_021160.1	Ca_kabuli_chr01	2858706	TT	AA	1946721683
SNP_P4_2362_2859581	NC_021160.1	Ca_kabuli_chr01	2859581	CC	TT	1946721686
SNP_P4_2363_2859603	NC_021160.1	Ca_kabuli_chr01	2859603	GG	AA	1946721688
SNP_P4_2364_2859917	NC_021160.1	Ca_kabuli_chr01	2859917	AA	GG	1946721690
SNP_P4_2365_2860225	NC_021160.1	Ca_kabuli_chr01	2860225	AA	GG	1946721692
SNP_P4_2367_2863303	NC_021160.1	Ca_kabuli_chr01	2863303	AA	GG	1946721694
SNP_P4_2368_2863671	NC_021160.1	Ca_kabuli_chr01	2863671	AA	GG	1946721697
SNP_P4_2369_2864825	NC_021160.1	Ca_kabuli_chr01	2864825	CC	GG	1946721699
SNP_P4_2370_2866955	NC_021160.1	Ca_kabuli_chr01	2866955	TT	AA	1946721702
SNP_P4_2372_2867172	NC_021160.1	Ca_kabuli_chr01	2867172	GG	CC	1946721706
SNP_P4_2374_2867229	NC_021160.1	Ca_kabuli_chr01	2867229	GG	TT	1946721708
SNP_P4_2375_2867693	NC_021160.1	Ca_kabuli_chr01	2867693	AA	GG	1946721710
SNP_P4_2376_2867707	NC_021160.1	Ca_kabuli_chr01	2867707	AA	GG	1946721713
SNP_P4_2377_2867709	NC_021160.1	Ca_kabuli_chr01	2867709	TT	CC	1946721715
SNP_P4_2378_2867730	NC_021160.1	Ca_kabuli_chr01	2867730	AA	GG	1946721717
SNP_P4_2379_2867736	NC_021160.1	Ca_kabuli_chr01	2867736	CC	AA	1946721719
SNP_P4_2380_2867746	NC_021160.1	Ca_kabuli_chr01	2867746	CC	TT	1946721721
SNP_P4_2381_2867758	NC_021160.1	Ca_kabuli_chr01	2867758	GG	AA	1946721723
SNP_P4_2382_2867784	NC_021160.1	Ca_kabuli_chr01	2867784	TT	CC	1946721725
SNP_P4_2383_2867805	NC_021160.1	Ca_kabuli_chr01	2867805	CC	AA	1946721727
SNP_P4_2385_2868991	NC_021160.1	Ca_kabuli_chr01	2868991	GG	TT	1946721729
SNP_P4_2386_2869887	NC_021160.1	Ca_kabuli_chr01	2869887	GG	CC	1946721731
SNP_P4_2387_2872251	NC_021160.1	Ca_kabuli_chr01	2872251	TT	CC	1946721733
SNP_P4_2388_2872477	NC_021160.1	Ca_kabuli_chr01	2872477	AA	GG	1946721735
SNP_P4_2389_2874401	NC_021160.1	Ca_kabuli_chr01	2874401	CC	TT	1946721737

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_2391_2874433	NC_021160.1	Ca_kabuli_chr01	2874433	TT	CC	1946721741
SNP_P4_2392_2874766	NC_021160.1	Ca_kabuli_chr01	2874766	CC	TT	1946721743
SNP_P4_2393_2874775	NC_021160.1	Ca_kabuli_chr01	2874775	CC	AA	1946721745
SNP_P4_2394_2874807	NC_021160.1	Ca_kabuli_chr01	2874807	TT	CC	1946721747
SNP_P4_2396_2875048	NC_021160.1	Ca_kabuli_chr01	2875048	GG	AA	1946721749
SNP_P4_2397_2875087	NC_021160.1	Ca_kabuli_chr01	2875087	AA	TT	1946721751
SNP_P4_2399_2875922	NC_021160.1	Ca_kabuli_chr01	2875922	AA	GG	1946721753
SNP_P4_2400_2875929	NC_021160.1	Ca_kabuli_chr01	2875929	CC	GG	1946721755
SNP_P4_2401_2877105	NC_021160.1	Ca_kabuli_chr01	2877105	AA	TT	1946721757
SNP_P4_2402_2877106	NC_021160.1	Ca_kabuli_chr01	2877106	AA	GG	1946721759
SNP_P4_2403_2877114	NC_021160.1	Ca_kabuli_chr01	2877114	CC	TT	1946721761
SNP_P4_2404_2877136	NC_021160.1	Ca_kabuli_chr01	2877136	TT	AA	1946721763
SNP_P4_2405_2877148	NC_021160.1	Ca_kabuli_chr01	2877148	CC	GG	1946721765
SNP_P4_2406_2877159	NC_021160.1	Ca_kabuli_chr01	2877159	GG	TT	1946721767
SNP_P4_2409_2877483	NC_021160.1	Ca_kabuli_chr01	2877483	AA	CC	1946721769
SNP_P4_2410_2877501	NC_021160.1	Ca_kabuli_chr01	2877501	CC	TT	1946721771
SNP_P4_2411_2877502	NC_021160.1	Ca_kabuli_chr01	2877502	AA	GG	1946721773
SNP_P4_2412_2877725	NC_021160.1	Ca_kabuli_chr01	2877725	TT	GG	1946721775
SNP_P4_2413_2877885	NC_021160.1	Ca_kabuli_chr01	2877885	GG	AA	1946721777
SNP_P4_2414_2877886	NC_021160.1	Ca_kabuli_chr01	2877886	AA	GG	1946721780
SNP_P4_2415_2877889	NC_021160.1	Ca_kabuli_chr01	2877889	TT	AA	1946721782
SNP_P4_2416_2878145	NC_021160.1	Ca_kabuli_chr01	2878145	CC	TT	1946721784
SNP_P4_2417_2878479	NC_021160.1	Ca_kabuli_chr01	2878479	TT	CC	1946721786
SNP_P4_2418_2878534	NC_021160.1	Ca_kabuli_chr01	2878534	TT	CC	1946721788
SNP_P4_2419_2878542	NC_021160.1	Ca_kabuli_chr01	2878542	TT	CC	1946721790
SNP_P4_2420_2878566	NC_021160.1	Ca_kabuli_chr01	2878566	TT	CC	1946721792
SNP_P4_2421_2878914	NC_021160.1	Ca_kabuli_chr01	2878914	GG	CC	1946721794
SNP_P4_2422_2878939	NC_021160.1	Ca_kabuli_chr01	2878939	GG	TT	1946721796
SNP_P4_2423_2880909	NC_021160.1	Ca_kabuli_chr01	2880909	CC	AA	1946721798
SNP_P4_2424_2880939	NC_021160.1	Ca_kabuli_chr01	2880939	CC	TT	1946721800
SNP_P4_2425_2881323	NC_021160.1	Ca_kabuli_chr01	2881323	AA	GG	1946721802
SNP_P4_2426_2882277	NC_021160.1	Ca_kabuli_chr01	2882277	CC	TT	1946721804
SNP_P4_2427_2882418	NC_021160.1	Ca_kabuli_chr01	2882418	GG	AA	1946721807
SNP_P4_2428_2883473	NC_021160.1	Ca_kabuli_chr01	2883473	GG	TT	1946721809
SNP_P4_2429_2883479	NC_021160.1	Ca_kabuli_chr01	2883479	CC	AA	1946721811
SNP_P4_2430_2883684	NC_021160.1	Ca_kabuli_chr01	2883684	GG	TT	1946721813
SNP_P4_2431_2883793	NC_021160.1	Ca_kabuli_chr01	2883793	CC	GG	1946721815
SNP_P4_2432_2883865	NC_021160.1	Ca_kabuli_chr01	2883865	GG	CC	1946721817
SNP_P4_2433_2883872	NC_021160.1	Ca_kabuli_chr01	2883872	TT	GG	1946721819
SNP_P4_2435_2884056	NC_021160.1	Ca_kabuli_chr01	2884056	AA	GG	1946721821
SNP_P4_2436_2884070	NC_021160.1	Ca_kabuli_chr01	2884070	GG	AA	1946721823

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_2438_2884174	NC_021160.1	Ca_kabuli_chr01	2884174	TT	CC	1946721827
SNP_P4_2439_2884185	NC_021160.1	Ca_kabuli_chr01	2884185	CC	AA	1946721829
SNP_P4_2440_2884200	NC_021160.1	Ca_kabuli_chr01	2884200	CC	AA	1946721831
SNP_P4_2442_2884476	NC_021160.1	Ca_kabuli_chr01	2884476	CC	TT	1946721833
SNP_P4_2443_2884477	NC_021160.1	Ca_kabuli_chr01	2884477	AA	GG	1946721836
SNP_P4_2444_2884616	NC_021160.1	Ca_kabuli_chr01	2884616	AA	GG	1946721838
SNP_P4_2445_2884626	NC_021160.1	Ca_kabuli_chr01	2884626	AA	TT	1946721840
SNP_P4_2446_2884710	NC_021160.1	Ca_kabuli_chr01	2884710	GG	TT	1946721842
SNP_P4_2447_2884713	NC_021160.1	Ca_kabuli_chr01	2884713	GG	TT	1946721844
SNP_P4_2448_2884747	NC_021160.1	Ca_kabuli_chr01	2884747	AA	GG	1946721846
SNP_P4_2449_2884748	NC_021160.1	Ca_kabuli_chr01	2884748	CC	GG	1946721848
SNP_P4_2450_2884774	NC_021160.1	Ca_kabuli_chr01	2884774	AA	GG	1946721850
SNP_P4_2451_2884775	NC_021160.1	Ca_kabuli_chr01	2884775	TT	GG	1946721852
SNP_P4_2452_2884788	NC_021160.1	Ca_kabuli_chr01	2884788	TT	AA	1946721854
SNP_P4_2454_2884895	NC_021160.1	Ca_kabuli_chr01	2884895	TT	CC	1946721856
SNP_P4_2455_2884915	NC_021160.1	Ca_kabuli_chr01	2884915	AA	GG	1946721859
SNP_P4_2456_2884918	NC_021160.1	Ca_kabuli_chr01	2884918	GG	AA	1946721861
SNP_P4_2457_2884926	NC_021160.1	Ca_kabuli_chr01	2884926	TT	CC	1946721863
SNP_P4_2458_2884997	NC_021160.1	Ca_kabuli_chr01	2884997	CC	TT	1946721865
SNP_P4_2459_2885013	NC_021160.1	Ca_kabuli_chr01	2885013	GG	AA	1946721867
SNP_P4_2460_2885111	NC_021160.1	Ca_kabuli_chr01	2885111	AA	GG	1946721869
SNP_P4_2461_2885175	NC_021160.1	Ca_kabuli_chr01	2885175	TT	CC	1946721871
SNP_P4_2462_2885242	NC_021160.1	Ca_kabuli_chr01	2885242	AA	CC	1946721873
SNP_P4_2463_2885262	NC_021160.1	Ca_kabuli_chr01	2885262	TT	CC	1946721875
SNP_P4_2464_2885302	NC_021160.1	Ca_kabuli_chr01	2885302	GG	CC	1946721877
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SNP_P4_2466_2885321	NC_021160.1	Ca_kabuli_chr01	2885321	AA	CC	1946721881
SNP_P4_2467_2885347	NC_021160.1	Ca_kabuli_chr01	2885347	GG	AA	1946721884
SNP_P4_2469_2885395	NC_021160.1	Ca_kabuli_chr01	2885395	GG	AA	1946721886
SNP_P4_2470_2885508	NC_021160.1	Ca_kabuli_chr01	2885508	TT	CC	1946721888
SNP_P4_2471_2885525	NC_021160.1	Ca_kabuli_chr01	2885525	TT	CC	1946721890
SNP_P4_2472_2885531	NC_021160.1	Ca_kabuli_chr01	2885531	CC	TT	1946721892
SNP_P4_2473_2885580	NC_021160.1	Ca_kabuli_chr01	2885580	AA	GG	1946721894
SNP_P4_2474_2885673	NC_021160.1	Ca_kabuli_chr01	2885673	CC	GG	1946721896
SNP_P4_2475_2885849	NC_021160.1	Ca_kabuli_chr01	2885849	TT	CC	1946721898
SNP_P4_2476_2885860	NC_021160.1	Ca_kabuli_chr01	2885860	AA	CC	1946721901
SNP_P4_2477_2885882	NC_021160.1	Ca_kabuli_chr01	2885882	GG	AA	1946721903
SNP_P4_2478_2885892	NC_021160.1	Ca_kabuli_chr01	2885892	TT	AA	1946721905
SNP_P4_2479_2886289	NC_021160.1	Ca_kabuli_chr01	2886289	TT	AA	1946721907
SNP_P4_2480_2886297	NC_021160.1	Ca_kabuli_chr01	2886297	TT	CC	1946721909
SNP_P4_2481_2886555	NC_021160.1	Ca_kabuli_chr01	2886555	TT	CC	1946721912

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_2484_2887036	NC_021160.1	Ca_kabuli_chr01	2887036	TT	CC	1946721916
SNP_P4_2485_2887058	NC_021160.1	Ca_kabuli_chr01	2887058	AA	GG	1946721918
SNP_P4_2486_2887061	NC_021160.1	Ca_kabuli_chr01	2887061	AA	TT	1946721920
SNP_P4_2487_2887067	NC_021160.1	Ca_kabuli_chr01	2887067	TT	CC	1946721924
SNP_P4_2488_2887085	NC_021160.1	Ca_kabuli_chr01	2887085	CC	TT	1946721926
SNP_P4_2489_2887091	NC_021160.1	Ca_kabuli_chr01	2887091	CC	TT	1946721928
SNP_P4_2490_2887372	NC_021160.1	Ca_kabuli_chr01	2887372	CC	TT	1946721931
SNP_P4_2491_2887723	NC_021160.1	Ca_kabuli_chr01	2887723	CC	TT	1946721933
SNP_P4_2492_2888500	NC_021160.1	Ca_kabuli_chr01	2888500	GG	AA	1946721935
SNP_P4_2493_2889572	NC_021160.1	Ca_kabuli_chr01	2889572	GG	CC	1946721937
SNP_P4_2494_2890064	NC_021160.1	Ca_kabuli_chr01	2890064	AA	GG	1946721939
SNP_P4_2495_2890067	NC_021160.1	Ca_kabuli_chr01	2890067	GG	AA	1946721941
SNP_P4_2496_2890093	NC_021160.1	Ca_kabuli_chr01	2890093	AA	TT	1946721943
SNP_P4_2498_2890131	NC_021160.1	Ca_kabuli_chr01	2890131	GG	AA	1946721945
SNP_P4_2499_2891798	NC_021160.1	Ca_kabuli_chr01	2891798	GG	TT	1946721947
SNP_P4_2500_2892192	NC_021160.1	Ca_kabuli_chr01	2892192	GG	TT	1946721949
SNP_P4_2501_2892256	NC_021160.1	Ca_kabuli_chr01	2892256	AA	GG	1946721951
SNP_P4_2502_2892561	NC_021160.1	Ca_kabuli_chr01	2892561	CC	AA	1946721953
SNP_P4_2503_2896647	NC_021160.1	Ca_kabuli_chr01	2896647	GG	AA	1946721955
SNP_P4_2504_2896714	NC_021160.1	Ca_kabuli_chr01	2896714	AA	GG	1946721957
SNP_P4_2505_2897983	NC_021160.1	Ca_kabuli_chr01	2897983	GG	AA	1946721959
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SNP_P4_2507_2898138	NC_021160.1	Ca_kabuli_chr01	2898138	TT	CC	1946721963
SNP_P4_2509_2899524	NC_021160.1	Ca_kabuli_chr01	2899524	AA	GG	1946721965
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SNP_P4_2511_2899817	NC_021160.1	Ca_kabuli_chr01	2899817	AA	GG	1946721969
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SNP_P4_2514_2900124	NC_021160.1	Ca_kabuli_chr01	2900124	CC	TT	1946721973
SNP_P4_2516_2900515	NC_021160.1	Ca_kabuli_chr01	2900515	TT	CC	1946721975
SNP_P4_2518_2901094	NC_021160.1	Ca_kabuli_chr01	2901094	AA	GG	1946721977
SNP_P4_2519_2901128	NC_021160.1	Ca_kabuli_chr01	2901128	GG	AA	1946721979
SNP_P4_2521_2901730	NC_021160.1	Ca_kabuli_chr01	2901730	AA	GG	1946721981
SNP_P4_2522_2901732	NC_021160.1	Ca_kabuli_chr01	2901732	CC	TT	1946721983
SNP_P4_2523_2901979	NC_021160.1	Ca_kabuli_chr01	2901979	CC	GG	1946721984
SNP_P4_2524_2902130	NC_021160.1	Ca_kabuli_chr01	2902130	TT	CC	1946721986
SNP_P4_2525_2902262	NC_021160.1	Ca_kabuli_chr01	2902262	CC	TT	1946721988
SNP_P4_2526_2903058	NC_021160.1	Ca_kabuli_chr01	2903058	TT	AA	1946721990
SNP_P4_2527_2903059	NC_021160.1	Ca_kabuli_chr01	2903059	CC	AA	1946721992
SNP_P4_2528_2903095	NC_021160.1	Ca_kabuli_chr01	2903095	GG	TT	1946721994
SNP_P4_2529_2904078	NC_021160.1	Ca_kabuli_chr01	2904078	CC	AA	1946721996
SNP_P4_2531_2904636	NC_021160.1	Ca_kabuli_chr01	2904636	CC	TT	1946721998

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_2534_2906045	NC_021160.1	Ca_kabuli_chr01	2906045	GG	CC	1946722002
SNP_P4_2535_2910853	NC_021160.1	Ca_kabuli_chr01	2910853	CC	GG	1946722004
SNP_P4_2536_2912807	NC_021160.1	Ca_kabuli_chr01	2912807	GG	CC	1946722006
SNP_P4_2538_2915248	NC_021160.1	Ca_kabuli_chr01	2915248	CC	AA	1946722008
SNP_P4_2539_2916491	NC_021160.1	Ca_kabuli_chr01	2916491	GG	AA	1946722010
SNP_P4_2540_2917242	NC_021160.1	Ca_kabuli_chr01	2917242	GG	AA	1946722012
SNP_P4_2542_2918834	NC_021160.1	Ca_kabuli_chr01	2918834	CC	AA	1946722014
SNP_P4_2543_2918856	NC_021160.1	Ca_kabuli_chr01	2918856	CC	TT	1946722016
SNP_P4_2544_2919032	NC_021160.1	Ca_kabuli_chr01	2919032	GG	CC	1946722018
SNP_P4_2546_2920251	NC_021160.1	Ca_kabuli_chr01	2920251	CC	TT	1946722020
SNP_P4_2547_2920346	NC_021160.1	Ca_kabuli_chr01	2920346	TT	GG	1946722022
SNP_P4_2548_2920366	NC_021160.1	Ca_kabuli_chr01	2920366	GG	CC	1946722024
SNP_P4_2550_2921694	NC_021160.1	Ca_kabuli_chr01	2921694	AA	TT	1946722026
SNP_P4_2552_2921879	NC_021160.1	Ca_kabuli_chr01	2921879	AA	CC	1946722027
SNP_P4_2553_2921885	NC_021160.1	Ca_kabuli_chr01	2921885	CC	TT	1946722029
SNP_P4_2555_2921940	NC_021160.1	Ca_kabuli_chr01	2921940	CC	AA	1946722031
SNP_P4_2556_2921949	NC_021160.1	Ca_kabuli_chr01	2921949	CC	TT	1946722033
SNP_P4_2557_2921969	NC_021160.1	Ca_kabuli_chr01	2921969	GG	AA	1946722035
SNP_P4_2558_2922717	NC_021160.1	Ca_kabuli_chr01	2922717	AA	GG	1946722037
SNP_P4_2561_2923118	NC_021160.1	Ca_kabuli_chr01	2923118	TT	CC	1946722039
SNP_P4_2563_2923287	NC_021160.1	Ca_kabuli_chr01	2923287	TT	AA	1946722041
SNP_P4_2564_2923803	NC_021160.1	Ca_kabuli_chr01	2923803	TT	CC	1946722043
SNP_P4_2565_2923805	NC_021160.1	Ca_kabuli_chr01	2923805	AA	GG	1946722045
SNP_P4_2566_2923853	NC_021160.1	Ca_kabuli_chr01	2923853	CC	GG	1946722047
SNP_P4_2569_2924034	NC_021160.1	Ca_kabuli_chr01	2924034	CC	AA	1946722049
SNP_P4_2570_2924074	NC_021160.1	Ca_kabuli_chr01	2924074	CC	AA	1946722051
SNP_P4_2572_2924591	NC_021160.1	Ca_kabuli_chr01	2924591	CC	AA	1946722053
SNP_P4_2574_2924959	NC_021160.1	Ca_kabuli_chr01	2924959	CC	TT	1946722055
SNP_P4_2575_2924987	NC_021160.1	Ca_kabuli_chr01	2924987	CC	TT	1946722057
SNP_P4_2576_2926978	NC_021160.1	Ca_kabuli_chr01	2926978	GG	TT	1946722059
SNP_P4_2577_2927445	NC_021160.1	Ca_kabuli_chr01	2927445	CC	TT	1946722061
SNP_P4_2579_2927769	NC_021160.1	Ca_kabuli_chr01	2927769	AA	TT	1946722062
SNP_P4_2580_2927770	NC_021160.1	Ca_kabuli_chr01	2927770	AA	TT	1946722064
SNP_P4_2581_2927907	NC_021160.1	Ca_kabuli_chr01	2927907	AA	TT	1946722066
SNP_P4_2583_2932738	NC_021160.1	Ca_kabuli_chr01	2932738	GG	TT	1946722068
SNP_P4_2584_2933024	NC_021160.1	Ca_kabuli_chr01	2933024	TT	AA	1946722070
SNP_P4_2585_2933054	NC_021160.1	Ca_kabuli_chr01	2933054	GG	AA	1946722072
SNP_P4_2586_2933083	NC_021160.1	Ca_kabuli_chr01	2933083	TT	CC	1946722074
SNP_P4_2588_2934079	NC_021160.1	Ca_kabuli_chr01	2934079	GG	AA	1946722076
SNP_P4_2589_2934136	NC_021160.1	Ca_kabuli_chr01	2934136	TT	CC	1946722078
SNP_P4_2591_2935376	NC_021160.1	Ca_kabuli_chr01	2935376	CC	TT	1946722080

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_2595_2939267	NC_021160.1	Ca_kabuli_chr01	2939267	AA	GG	1946722084
SNP_P4_2596_2939292	NC_021160.1	Ca_kabuli_chr01	2939292	CC	TT	1946722086
SNP_P4_2597_2939352	NC_021160.1	Ca_kabuli_chr01	2939352	CC	TT	1946722088
SNP_P4_2598_2939673	NC_021160.1	Ca_kabuli_chr01	2939673	TT	AA	1946722090
SNP_P4_2599_2940888	NC_021160.1	Ca_kabuli_chr01	2940888	GG	TT	1946722092
SNP_P4_2600_2940909	NC_021160.1	Ca_kabuli_chr01	2940909	AA	GG	1946722094
SNP_P4_2601_2941019	NC_021160.1	Ca_kabuli_chr01	2941019	TT	CC	1946722096
SNP_P4_2602_2941070	NC_021160.1	Ca_kabuli_chr01	2941070	TT	CC	1946722098
SNP_P4_2603_2941711	NC_021160.1	Ca_kabuli_chr01	2941711	CC	AA	1946722099
SNP_P4_2604_2944579	NC_021160.1	Ca_kabuli_chr01	2944579	GG	AA	1946722101
SNP_P4_2605_2944580	NC_021160.1	Ca_kabuli_chr01	2944580	TT	AA	1946722103
SNP_P4_2607_2945278	NC_021160.1	Ca_kabuli_chr01	2945278	CC	TT	1946722105
SNP_P4_2608_2945495	NC_021160.1	Ca_kabuli_chr01	2945495	TT	GG	1946722107
SNP_P4_2609_2947568	NC_021160.1	Ca_kabuli_chr01	2947568	TT	AA	1946722109
SNP_P4_2610_2949838	NC_021160.1	Ca_kabuli_chr01	2949838	TT	AA	1946722111
SNP_P4_2611_2949849	NC_021160.1	Ca_kabuli_chr01	2949849	AA	TT	1946722113
SNP_P4_2612_2949853	NC_021160.1	Ca_kabuli_chr01	2949853	TT	GG	1946722115
SNP_P4_2613_2949915	NC_021160.1	Ca_kabuli_chr01	2949915	TT	CC	1946722117
SNP_P4_2614_2951404	NC_021160.1	Ca_kabuli_chr01	2951404	CC	TT	1946722119
SNP_P4_2615_2952435	NC_021160.1	Ca_kabuli_chr01	2952435	CC	TT	1946722121
SNP_P4_2618_2954251	NC_021160.1	Ca_kabuli_chr01	2954251	CC	TT	1946722123
SNP_P4_2619_2954254	NC_021160.1	Ca_kabuli_chr01	2954254	AA	GG	1946722125
SNP_P4_2620_2954306	NC_021160.1	Ca_kabuli_chr01	2954306	AA	GG	1946722127
SNP_P4_2621_2954747	NC_021160.1	Ca_kabuli_chr01	2954747	GG	AA	1946722129
SNP_P4_2622_2955252	NC_021160.1	Ca_kabuli_chr01	2955252	CC	TT	1946722130
SNP_P4_2623_2955268	NC_021160.1	Ca_kabuli_chr01	2955268	GG	TT	1946722132
SNP_P4_2624_2955404	NC_021160.1	Ca_kabuli_chr01	2955404	TT	CC	1946722134
SNP_P4_2625_2955442	NC_021160.1	Ca_kabuli_chr01	2955442	TT	AA	1946722136
SNP_P4_2626_2955460	NC_021160.1	Ca_kabuli_chr01	2955460	TT	AA	1946722138
SNP_P4_2627_2955464	NC_021160.1	Ca_kabuli_chr01	2955464	CC	TT	1946722140
SNP_P4_2628_2955466	NC_021160.1	Ca_kabuli_chr01	2955466	GG	AA	1946722142
SNP_P4_2629_2955479	NC_021160.1	Ca_kabuli_chr01	2955479	TT	CC	1946722144
SNP_P4_2630_2955494	NC_021160.1	Ca_kabuli_chr01	2955494	TT	CC	1946722146
SNP_P4_2631_2955509	NC_021160.1	Ca_kabuli_chr01	2955509	AA	GG	1946722148
SNP_P4_2632_2955743	NC_021160.1	Ca_kabuli_chr01	2955743	AA	GG	1946722149
SNP_P4_2634_2955783	NC_021160.1	Ca_kabuli_chr01	2955783	AA	GG	1946722151
SNP_P4_2635_2955841	NC_021160.1	Ca_kabuli_chr01	2955841	CC	GG	1946722153
SNP_P4_2637_2956638	NC_021160.1	Ca_kabuli_chr01	2956638	TT	GG	1946722155
SNP_P4_2639_2956690	NC_021160.1	Ca_kabuli_chr01	2956690	CC	TT	1946722157
SNP_P4_2640_2956697	NC_021160.1	Ca_kabuli_chr01	2956697	TT	CC	1946722159
SNP_P4_2641_2957759	NC_021160.1	Ca_kabuli_chr01	2957759	AA	GG	1946722161

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_2643_2957892	NC_021160.1	Ca_kabuli_chr01	2957892	CC	AA	1946722165
SNP_P4_2644_2957972	NC_021160.1	Ca_kabuli_chr01	2957972	GG	CC	1946722167
SNP_P4_2646_2958296	NC_021160.1	Ca_kabuli_chr01	2958296	AA	GG	1946722173
SNP_P4_2647_2958332	NC_021160.1	Ca_kabuli_chr01	2958332	TT	GG	1946722175
SNP_P4_2648_2958385	NC_021160.1	Ca_kabuli_chr01	2958385	TT	AA	1946722177
SNP_P4_2649_2958512	NC_021160.1	Ca_kabuli_chr01	2958512	GG	TT	1946722179
SNP_P4_2650_2959656	NC_021160.1	Ca_kabuli_chr01	2959656	AA	GG	1946722181
SNP_P4_2653_2960599	NC_021160.1	Ca_kabuli_chr01	2960599	GG	AA	1946722183
SNP_P4_2655_2960673	NC_021160.1	Ca_kabuli_chr01	2960673	GG	AA	1946722185
SNP_P4_2657_2961019	NC_021160.1	Ca_kabuli_chr01	2961019	TT	AA	1946722187
SNP_P4_2659_2961534	NC_021160.1	Ca_kabuli_chr01	2961534	GG	AA	1946722189
SNP_P4_2663_2963203	NC_021160.1	Ca_kabuli_chr01	2963203	GG	AA	1946722191
SNP_P4_2665_2963250	NC_021160.1	Ca_kabuli_chr01	2963250	AA	TT	1946722193
SNP_P4_2666_2963365	NC_021160.1	Ca_kabuli_chr01	2963365	GG	AA	1946722194
SNP_P4_2667_2963377	NC_021160.1	Ca_kabuli_chr01	2963377	AA	TT	1946722196
SNP_P4_2668_2963585	NC_021160.1	Ca_kabuli_chr01	2963585	TT	CC	1946722198
SNP_P4_2669_2963589	NC_021160.1	Ca_kabuli_chr01	2963589	AA	GG	1946722200
SNP_P4_2670_2963641	NC_021160.1	Ca_kabuli_chr01	2963641	TT	CC	1946722202
SNP_P4_2671_2963642	NC_021160.1	Ca_kabuli_chr01	2963642	AA	CC	1946722204
SNP_P4_2672_2964234	NC_021160.1	Ca_kabuli_chr01	2964234	AA	GG	1946722206
SNP_P4_2673_2964842	NC_021160.1	Ca_kabuli_chr01	2964842	AA	GG	1946722208
SNP_P4_2674_2966124	NC_021160.1	Ca_kabuli_chr01	2966124	AA	CC	1946722210
SNP_P4_2675_2966143	NC_021160.1	Ca_kabuli_chr01	2966143	GG	AA	1946722212
SNP_P4_2678_2966454	NC_021160.1	Ca_kabuli_chr01	2966454	TT	GG	1946722214
SNP_P4_2679_2966508	NC_021160.1	Ca_kabuli_chr01	2966508	CC	TT	1946722216
SNP_P4_2680_2966687	NC_021160.1	Ca_kabuli_chr01	2966687	CC	TT	1946722218
SNP_P4_2681_2966721	NC_021160.1	Ca_kabuli_chr01	2966721	CC	GG	1946722221
SNP_P4_2682_2966734	NC_021160.1	Ca_kabuli_chr01	2966734	TT	CC	1946722223
SNP_P4_2683_2968107	NC_021160.1	Ca_kabuli_chr01	2968107	TT	CC	1946722225
SNP_P4_2684_2969398	NC_021160.1	Ca_kabuli_chr01	2969398	AA	GG	1946722227
SNP_P4_2685_2969410	NC_021160.1	Ca_kabuli_chr01	2969410	CC	TT	1946722229
SNP_P4_2687_2969729	NC_021160.1	Ca_kabuli_chr01	2969729	GG	TT	1946722231
SNP_P4_2688_2969917	NC_021160.1	Ca_kabuli_chr01	2969917	TT	CC	1946722233
SNP_P4_2689_2970006	NC_021160.1	Ca_kabuli_chr01	2970006	AA	GG	1946722235
SNP_P4_2692_2970507	NC_021160.1	Ca_kabuli_chr01	2970507	TT	CC	1946722237
SNP_P4_2693_2971273	NC_021160.1	Ca_kabuli_chr01	2971273	AA	GG	1946722239
SNP_P4_2694_2975203	NC_021160.1	Ca_kabuli_chr01	2975203	AA	GG	1946722240
SNP_P4_2696_2975505	NC_021160.1	Ca_kabuli_chr01	2975505	TT	CC	1946722242
SNP_P4_2697_2975509	NC_021160.1	Ca_kabuli_chr01	2975509	AA	TT	1946722244
SNP_P4_2698_2975736	NC_021160.1	Ca_kabuli_chr01	2975736	AA	GG	1946722246
SNP_P4_2699_2975976	NC_021160.1	Ca_kabuli_chr01	2975976	GG	AA	1946722248

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_2701_2976615	NC_021160.1	Ca_kabuli_chr01	2976615	GG	CC	1946722252
SNP_P4_2702_2976891	NC_021160.1	Ca_kabuli_chr01	2976891	GG	AA	1946722254
SNP_P4_2703_2976929	NC_021160.1	Ca_kabuli_chr01	2976929	CC	TT	1946722256
SNP_P4_2704_2976932	NC_021160.1	Ca_kabuli_chr01	2976932	GG	AA	1946722258
SNP_P4_2705_2977447	NC_021160.1	Ca_kabuli_chr01	2977447	TT	GG	1946722260
SNP_P4_2708_2980826	NC_021160.1	Ca_kabuli_chr01	2980826	GG	CC	1946722262
SNP_P4_2710_2988170	NC_021160.1	Ca_kabuli_chr01	2988170	TT	GG	1946722264
SNP_P4_2711_2991103	NC_021160.1	Ca_kabuli_chr01	2991103	AA	GG	1946722266
SNP_P4_2713_2993814	NC_021160.1	Ca_kabuli_chr01	2993814	AA	CC	1946722268
SNP_P4_2714_2993830	NC_021160.1	Ca_kabuli_chr01	2993830	TT	AA	1946722270
SNP_P4_2715_2994160	NC_021160.1	Ca_kabuli_chr01	2994160	TT	GG	1946722272
SNP_P4_2718_2994472	NC_021160.1	Ca_kabuli_chr01	2994472	TT	AA	1946722274
SNP_P4_2720_3000217	NC_021160.1	Ca_kabuli_chr01	3000217	CC	TT	1946722276
SNP_P4_2721_3003156	NC_021160.1	Ca_kabuli_chr01	3003156	AA	GG	1946722278
SNP_P4_2722_3004344	NC_021160.1	Ca_kabuli_chr01	3004344	AA	GG	1946722280
SNP_P4_2723_3004720	NC_021160.1	Ca_kabuli_chr01	3004720	GG	CC	1946722282
SNP_P4_2724_3010481	NC_021160.1	Ca_kabuli_chr01	3010481	GG	CC	1946722284
SNP_P4_2725_3011791	NC_021160.1	Ca_kabuli_chr01	3011791	CC	TT	1946722286
SNP_P4_2727_3014797	NC_021160.1	Ca_kabuli_chr01	3014797	GG	AA	1946722288
SNP_P4_2728_3014850	NC_021160.1	Ca_kabuli_chr01	3014850	AA	GG	1946722290
SNP_P4_2729_3014915	NC_021160.1	Ca_kabuli_chr01	3014915	AA	GG	1946722292
SNP_P4_2730_3015632	NC_021160.1	Ca_kabuli_chr01	3015632	AA	GG	1946722296
SNP_P4_2731_3016414	NC_021160.1	Ca_kabuli_chr01	3016414	AA	GG	1946722300
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SNP_P4_2733_3016436	NC_021160.1	Ca_kabuli_chr01	3016436	CC	TT	1946722303
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SNP_P4_2737_3016778	NC_021160.1	Ca_kabuli_chr01	3016778	AA	CC	1946722307
SNP_P4_2738_3016922	NC_021160.1	Ca_kabuli_chr01	3016922	CC	AA	1946722309
SNP_P4_2740_3017086	NC_021160.1	Ca_kabuli_chr01	3017086	TT	CC	1946722311
SNP_P4_2741_3017638	NC_021160.1	Ca_kabuli_chr01	3017638	TT	CC	1946722313
SNP_P4_2742_3017707	NC_021160.1	Ca_kabuli_chr01	3017707	TT	CC	1946722315
SNP_P4_2744_3018850	NC_021160.1	Ca_kabuli_chr01	3018850	AA	GG	1946722317
SNP_P4_2745_3019641	NC_021160.1	Ca_kabuli_chr01	3019641	AA	GG	1946722319
SNP_P4_2746_3019661	NC_021160.1	Ca_kabuli_chr01	3019661	TT	CC	1946722321
SNP_P4_2747_3019684	NC_021160.1	Ca_kabuli_chr01	3019684	CC	TT	1946722323
SNP_P4_2748_3019717	NC_021160.1	Ca_kabuli_chr01	3019717	CC	TT	1946722325
SNP_P4_2749_3019739	NC_021160.1	Ca_kabuli_chr01	3019739	AA	GG	1946722327
SNP_P4_2752_3020410	NC_021160.1	Ca_kabuli_chr01	3020410	CC	TT	1946722329
SNP_P4_2753_3020486	NC_021160.1	Ca_kabuli_chr01	3020486	AA	GG	1946722331
SNP_P4_2754_3020504	NC_021160.1	Ca_kabuli_chr01	3020504	CC	AA	1946722334
SNP_P4_2755_3020522	NC_021160.1	Ca_kabuli_chr01	3020522	GG	AA	1946722336

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_2760_3020932	NC_021160.1	Ca_kabuli_chr01	3020932	TT	GG	1946722342
SNP_P4_2761_3020972	NC_021160.1	Ca_kabuli_chr01	3020972	GG	AA	1946722344
SNP_P4_2762_3020987	NC_021160.1	Ca_kabuli_chr01	3020987	GG	AA	1946722346
SNP_P4_2763_3021023	NC_021160.1	Ca_kabuli_chr01	3021023	TT	AA	1946722348
SNP_P4_2764_3021042	NC_021160.1	Ca_kabuli_chr01	3021042	TT	AA	1946722350
SNP_P4_2765_3021078	NC_021160.1	Ca_kabuli_chr01	3021078	AA	TT	1946722352
SNP_P4_2766_3021123	NC_021160.1	Ca_kabuli_chr01	3021123	AA	TT	1946722354
SNP_P4_2767_3021262	NC_021160.1	Ca_kabuli_chr01	3021262	TT	CC	1946722356
SNP_P4_2768_3021272	NC_021160.1	Ca_kabuli_chr01	3021272	TT	AA	1946722358
SNP_P4_2769_3021291	NC_021160.1	Ca_kabuli_chr01	3021291	TT	CC	1946722360
SNP_P4_2770_3021293	NC_021160.1	Ca_kabuli_chr01	3021293	AA	GG	1946722362
SNP_P4_2771_3021368	NC_021160.1	Ca_kabuli_chr01	3021368	GG	TT	1946722364
SNP_P4_2772_3021379	NC_021160.1	Ca_kabuli_chr01	3021379	GG	AA	1946722366
SNP_P4_2773_3025557	NC_021160.1	Ca_kabuli_chr01	3025557	TT	CC	1946722367
SNP_P4_2774_3025874	NC_021160.1	Ca_kabuli_chr01	3025874	GG	AA	1946722369
SNP_P4_2776_3025909	NC_021160.1	Ca_kabuli_chr01	3025909	CC	TT	1946722371
SNP_P4_2778_3026222	NC_021160.1	Ca_kabuli_chr01	3026222	TT	CC	1946722373
SNP_P4_2779_3027043	NC_021160.1	Ca_kabuli_chr01	3027043	AA	TT	1946722375
SNP_P4_2780_3027744	NC_021160.1	Ca_kabuli_chr01	3027744	AA	TT	1946722377
SNP_P4_2781_3027918	NC_021160.1	Ca_kabuli_chr01	3027918	CC	AA	1946722379
SNP_P4_2782_3029032	NC_021160.1	Ca_kabuli_chr01	3029032	AA	GG	1946722381
SNP_P4_2783_3029067	NC_021160.1	Ca_kabuli_chr01	3029067	GG	AA	1946722383
SNP_P4_2784_3030253	NC_021160.1	Ca_kabuli_chr01	3030253	GG	AA	1946722385
SNP_P4_2786_3030457	NC_021160.1	Ca_kabuli_chr01	3030457	CC	GG	1946722387
SNP_P4_2787_3030475	NC_021160.1	Ca_kabuli_chr01	3030475	TT	CC	1946722389
SNP_P4_2788_3030576	NC_021160.1	Ca_kabuli_chr01	3030576	TT	CC	1946722391
SNP_P4_2789_3030603	NC_021160.1	Ca_kabuli_chr01	3030603	TT	AA	1946722393
SNP_P4_2790_3030787	NC_021160.1	Ca_kabuli_chr01	3030787	TT	AA	1946722395
SNP_P4_2792_3032514	NC_021160.1	Ca_kabuli_chr01	3032514	TT	AA	1946722397
SNP_P4_2793_3032630	NC_021160.1	Ca_kabuli_chr01	3032630	GG	TT	1946722399
SNP_P4_2794_3032816	NC_021160.1	Ca_kabuli_chr01	3032816	AA	TT	1946722401
SNP_P4_2795_3033060	NC_021160.1	Ca_kabuli_chr01	3033060	AA	GG	1946722403
SNP_P4_2796_3033133	NC_021160.1	Ca_kabuli_chr01	3033133	TT	CC	1946722404
SNP_P4_2797_3033190	NC_021160.1	Ca_kabuli_chr01	3033190	CC	TT	1946722406
SNP_P4_2799_3033272	NC_021160.1	Ca_kabuli_chr01	3033272	TT	CC	1946722408
SNP_P4_2800_3033294	NC_021160.1	Ca_kabuli_chr01	3033294	AA	TT	1946722410
SNP_P4_2801_3033452	NC_021160.1	Ca_kabuli_chr01	3033452	TT	CC	1946722412
SNP_P4_2802_3033459	NC_021160.1	Ca_kabuli_chr01	3033459	TT	GG	1946722414
SNP_P4_2803_3033631	NC_021160.1	Ca_kabuli_chr01	3033631	CC	GG	1946722416
SNP_P4_2804_3033788	NC_021160.1	Ca_kabuli_chr01	3033788	GG	AA	1946722418

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_2806_3035096	NC_021160.1	Ca_kabuli_chr01	3035096	CC	TT	1946722422
SNP_P4_2807_3035394	NC_021160.1	Ca_kabuli_chr01	3035394	GG	TT	1946722424
SNP_P4_2808_3036074	NC_021160.1	Ca_kabuli_chr01	3036074	TT	AA	1946722426
SNP_P4_2811_3036587	NC_021160.1	Ca_kabuli_chr01	3036587	AA	CC	1946722428
SNP_P4_2812_3036604	NC_021160.1	Ca_kabuli_chr01	3036604	TT	AA	1946722430
SNP_P4_2814_3039133	NC_021160.1	Ca_kabuli_chr01	3039133	TT	CC	1946722432
SNP_P4_2815_3039962	NC_021160.1	Ca_kabuli_chr01	3039962	CC	AA	1946722434
SNP_P4_2817_3040181	NC_021160.1	Ca_kabuli_chr01	3040181	TT	CC	1946722436
SNP_P4_2818_3041740	NC_021160.1	Ca_kabuli_chr01	3041740	CC	AA	1946722438
SNP_P4_2820_3043442	NC_021160.1	Ca_kabuli_chr01	3043442	AA	GG	1946722440
SNP_P4_2822_3044017	NC_021160.1	Ca_kabuli_chr01	3044017	AA	GG	1946722442
SNP_P4_2823_3044241	NC_021160.1	Ca_kabuli_chr01	3044241	TT	CC	1946722444
SNP_P4_2824_3044537	NC_021160.1	Ca_kabuli_chr01	3044537	AA	GG	1946722446
SNP_P4_2825_3045645	NC_021160.1	Ca_kabuli_chr01	3045645	AA	TT	1946722448
SNP_P4_2826_3046044	NC_021160.1	Ca_kabuli_chr01	3046044	AA	GG	1946722450
SNP_P4_2827_3046963	NC_021160.1	Ca_kabuli_chr01	3046963	TT	AA	1946722452
SNP_P4_2828_3047634	NC_021160.1	Ca_kabuli_chr01	3047634	GG	AA	1946722455
SNP_P4_2829_3047946	NC_021160.1	Ca_kabuli_chr01	3047946	CC	GG	1946722457
SNP_P4_2830_3048772	NC_021160.1	Ca_kabuli_chr01	3048772	CC	TT	1946722459
SNP_P4_2831_3049728	NC_021160.1	Ca_kabuli_chr01	3049728	AA	TT	1946722461
SNP_P4_2832_3050113	NC_021160.1	Ca_kabuli_chr01	3050113	AA	TT	1946722463
SNP_P4_2833_3050568	NC_021160.1	Ca_kabuli_chr01	3050568	CC	TT	1946722466
SNP_P4_2834_3050572	NC_021160.1	Ca_kabuli_chr01	3050572	AA	GG	1946722468
SNP_P4_2835_3050959	NC_021160.1	Ca_kabuli_chr01	3050959	TT	AA	1946722470
SNP_P4_2836_3050989	NC_021160.1	Ca_kabuli_chr01	3050989	CC	AA	1946722472
SNP_P4_2837_3051082	NC_021160.1	Ca_kabuli_chr01	3051082	CC	TT	1946722474
SNP_P4_2838_3051093	NC_021160.1	Ca_kabuli_chr01	3051093	AA	GG	1946722476
SNP_P4_2839_3051133	NC_021160.1	Ca_kabuli_chr01	3051133	CC	GG	1946722478
SNP_P4_2841_3051254	NC_021160.1	Ca_kabuli_chr01	3051254	TT	CC	1946722480
SNP_P4_2842_3051276	NC_021160.1	Ca_kabuli_chr01	3051276	TT	GG	1946722482
SNP_P4_2844_3051921	NC_021160.1	Ca_kabuli_chr01	3051921	AA	GG	1946722484
SNP_P4_2845_3052360	NC_021160.1	Ca_kabuli_chr01	3052360	CC	GG	1946722486
SNP_P4_2846_3053286	NC_021160.1	Ca_kabuli_chr01	3053286	TT	CC	1946722488
SNP_P4_2847_3053287	NC_021160.1	Ca_kabuli_chr01	3053287	TT	CC	1946722490
SNP_P4_2848_3053293	NC_021160.1	Ca_kabuli_chr01	3053293	AA	CC	1946722492
SNP_P4_2849_3054361	NC_021160.1	Ca_kabuli_chr01	3054361	GG	TT	1946722494
SNP_P4_2850_3054563	NC_021160.1	Ca_kabuli_chr01	3054563	CC	TT	1946722496
SNP_P4_2851_3054695	NC_021160.1	Ca_kabuli_chr01	3054695	GG	AA	1946722498
SNP_P4_2852_3054913	NC_021160.1	Ca_kabuli_chr01	3054913	AA	GG	1946722500
SNP_P4_2853_3055105	NC_021160.1	Ca_kabuli_chr01	3055105	AA	GG	1946722502
SNP_P4_2854_3061649	NC_021160.1	Ca_kabuli_chr01	3061649	CC	TT	1946722504

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_2856_3061717	NC_021160.1	Ca_kabuli_chr01	3061717	TT	CC	1946722508
SNP_P4_2857_3062252	NC_021160.1	Ca_kabuli_chr01	3062252	CC	TT	1946722509
SNP_P4_2858_3065073	NC_021160.1	Ca_kabuli_chr01	3065073	GG	AA	1946722511
SNP_P4_2859_3065216	NC_021160.1	Ca_kabuli_chr01	3065216	CC	AA	1946722513
SNP_P4_2861_3068464	NC_021160.1	Ca_kabuli_chr01	3068464	AA	GG	1946722515
SNP_P4_2862_3069575	NC_021160.1	Ca_kabuli_chr01	3069575	CC	AA	1946722517
SNP_P4_2863_3070231	NC_021160.1	Ca_kabuli_chr01	3070231	TT	CC	1946722519
SNP_P4_2864_3071007	NC_021160.1	Ca_kabuli_chr01	3071007	GG	TT	1946722521
SNP_P4_2865_3071056	NC_021160.1	Ca_kabuli_chr01	3071056	GG	AA	1946722523
SNP_P4_2866_3071158	NC_021160.1	Ca_kabuli_chr01	3071158	GG	AA	1946722525
SNP_P4_2867_3071269	NC_021160.1	Ca_kabuli_chr01	3071269	AA	GG	1946722527
SNP_P4_2869_3071435	NC_021160.1	Ca_kabuli_chr01	3071435	CC	TT	1946722529
SNP_P4_2870_3071702	NC_021160.1	Ca_kabuli_chr01	3071702	AA	CC	1946722531
SNP_P4_2871_3072284	NC_021160.1	Ca_kabuli_chr01	3072284	GG	AA	1946722533
SNP_P4_2872_3072499	NC_021160.1	Ca_kabuli_chr01	3072499	TT	CC	1946722535
SNP_P4_2873_3072500	NC_021160.1	Ca_kabuli_chr01	3072500	CC	AA	1946722538
SNP_P4_2874_3072560	NC_021160.1	Ca_kabuli_chr01	3072560	AA	GG	1946722540
SNP_P4_2876_3074526	NC_021160.1	Ca_kabuli_chr01	3074526	TT	CC	1946722542
SNP_P4_2877_3074596	NC_021160.1	Ca_kabuli_chr01	3074596	GG	AA	1946722544
SNP_P4_2878_3074599	NC_021160.1	Ca_kabuli_chr01	3074599	GG	TT	1946722546
SNP_P4_2880_3074863	NC_021160.1	Ca_kabuli_chr01	3074863	AA	TT	1946722549
SNP_P4_2881_3074897	NC_021160.1	Ca_kabuli_chr01	3074897	GG	CC	1946722551
SNP_P4_2882_3074967	NC_021160.1	Ca_kabuli_chr01	3074967	AA	GG	1946722553
SNP_P4_2884_3075053	NC_021160.1	Ca_kabuli_chr01	3075053	TT	AA	1946722555
SNP_P4_2885_3075073	NC_021160.1	Ca_kabuli_chr01	3075073	TT	AA	1946722557
SNP_P4_2886_3075228	NC_021160.1	Ca_kabuli_chr01	3075228	CC	TT	1946722560
SNP_P4_2888_3075363	NC_021160.1	Ca_kabuli_chr01	3075363	GG	AA	1946722562
SNP_P4_2890_3077250	NC_021160.1	Ca_kabuli_chr01	3077250	TT	AA	1946722564
SNP_P4_2891_3079217	NC_021160.1	Ca_kabuli_chr01	3079217	TT	AA	1946722566
SNP_P4_2892_3079234	NC_021160.1	Ca_kabuli_chr01	3079234	TT	CC	1946722568
SNP_P4_2893_3079281	NC_021160.1	Ca_kabuli_chr01	3079281	TT	CC	1946722570
SNP_P4_2894_3079286	NC_021160.1	Ca_kabuli_chr01	3079286	TT	CC	1946722572
SNP_P4_2895_3079294	NC_021160.1	Ca_kabuli_chr01	3079294	AA	GG	1946722574
SNP_P4_2896_3079297	NC_021160.1	Ca_kabuli_chr01	3079297	TT	CC	1946722576
SNP_P4_2897_3079319	NC_021160.1	Ca_kabuli_chr01	3079319	CC	TT	1946722578
SNP_P4_2898_3079415	NC_021160.1	Ca_kabuli_chr01	3079415	AA	GG	1946722580
SNP_P4_2899_3079459	NC_021160.1	Ca_kabuli_chr01	3079459	TT	CC	1946722582
SNP_P4_2900_3079498	NC_021160.1	Ca_kabuli_chr01	3079498	AA	TT	1946722584
SNP_P4_2902_3079566	NC_021160.1	Ca_kabuli_chr01	3079566	TT	CC	1946722586
SNP_P4_2903_3079576	NC_021160.1	Ca_kabuli_chr01	3079576	TT	CC	1946722588
SNP_P4_2904_3079608	NC_021160.1	Ca_kabuli_chr01	3079608	GG	AA	1946722590

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_2906_3079930	NC_021160.1	Ca_kabuli_chr01	3079930	CC	TT	1946722594
SNP_P4_2907_3079936	NC_021160.1	Ca_kabuli_chr01	3079936	GG	AA	1946722596
SNP_P4_2909_3081108	NC_021160.1	Ca_kabuli_chr01	3081108	TT	CC	1946722598
SNP_P4_2910_3081112	NC_021160.1	Ca_kabuli_chr01	3081112	TT	CC	1946722600
SNP_P4_2911_3081126	NC_021160.1	Ca_kabuli_chr01	3081126	GG	TT	1946722602
SNP_P4_2912_3081130	NC_021160.1	Ca_kabuli_chr01	3081130	CC	TT	1946722604
SNP_P4_2914_3081410	NC_021160.1	Ca_kabuli_chr01	3081410	CC	TT	1946722606
SNP_P4_2915_3081430	NC_021160.1	Ca_kabuli_chr01	3081430	GG	AA	1946722608
SNP_P4_2916_3082462	NC_021160.1	Ca_kabuli_chr01	3082462	GG	AA	1946722610
SNP_P4_2917_3082811	NC_021160.1	Ca_kabuli_chr01	3082811	CC	TT	1946722611
SNP_P4_2918_3082818	NC_021160.1	Ca_kabuli_chr01	3082818	GG	TT	1946722613
SNP_P4_2919_3083192	NC_021160.1	Ca_kabuli_chr01	3083192	GG	CC	1946722615
SNP_P4_2920_3084854	NC_021160.1	Ca_kabuli_chr01	3084854	CC	TT	1946722617
SNP_P4_2921_3085875	NC_021160.1	Ca_kabuli_chr01	3085875	TT	CC	1946722619
SNP_P4_2922_3086075	NC_021160.1	Ca_kabuli_chr01	3086075	CC	TT	1946722621
SNP_P4_2923_3086079	NC_021160.1	Ca_kabuli_chr01	3086079	AA	GG	1946722623
SNP_P4_2924_3086158	NC_021160.1	Ca_kabuli_chr01	3086158	AA	CC	1946722625
SNP_P4_2925_3086160	NC_021160.1	Ca_kabuli_chr01	3086160	AA	TT	1946722627
SNP_P4_2926_3086299	NC_021160.1	Ca_kabuli_chr01	3086299	AA	GG	1946722630
SNP_P4_2927_3086641	NC_021160.1	Ca_kabuli_chr01	3086641	CC	TT	1946722632
SNP_P4_2928_3087463	NC_021160.1	Ca_kabuli_chr01	3087463	AA	TT	1946722635
SNP_P4_2930_3087820	NC_021160.1	Ca_kabuli_chr01	3087820	GG	TT	1946722637
SNP_P4_2931_3087923	NC_021160.1	Ca_kabuli_chr01	3087923	TT	CC	1946722641
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SNP_P4_2933_3087940	NC_021160.1	Ca_kabuli_chr01	3087940	GG	TT	1946722645
SNP_P4_2936_3088582	NC_021160.1	Ca_kabuli_chr01	3088582	GG	AA	1946722647
SNP_P4_2937_3088612	NC_021160.1	Ca_kabuli_chr01	3088612	TT	CC	1946722648
SNP_P4_2938_3088669	NC_021160.1	Ca_kabuli_chr01	3088669	GG	CC	1946722650
SNP_P4_2939_3088749	NC_021160.1	Ca_kabuli_chr01	3088749	TT	GG	1946722652
SNP_P4_2943_3089496	NC_021160.1	Ca_kabuli_chr01	3089496	TT	AA	1946722654
SNP_P4_2944_3089500	NC_021160.1	Ca_kabuli_chr01	3089500	CC	TT	1946722656
SNP_P4_2945_3089524	NC_021160.1	Ca_kabuli_chr01	3089524	GG	AA	1946722658
SNP_P4_2946_3089557	NC_021160.1	Ca_kabuli_chr01	3089557	AA	TT	1946722660
SNP_P4_2947_3089583	NC_021160.1	Ca_kabuli_chr01	3089583	GG	AA	1946722662
SNP_P4_2948_3089625	NC_021160.1	Ca_kabuli_chr01	3089625	AA	CC	1946722664
SNP_P4_2949_3089688	NC_021160.1	Ca_kabuli_chr01	3089688	GG	AA	1946722666
SNP_P4_2950_3089710	NC_021160.1	Ca_kabuli_chr01	3089710	TT	CC	1946722668
SNP_P4_2951_3089712	NC_021160.1	Ca_kabuli_chr01	3089712	AA	GG	1946722670
SNP_P4_2953_3091567	NC_021160.1	Ca_kabuli_chr01	3091567	TT	CC	1946722672
SNP_P4_2955_3094131	NC_021160.1	Ca_kabuli_chr01	3094131	AA	CC	1946722674
SNP_P4_2956_3094326	NC_021160.1	Ca_kabuli_chr01	3094326	AA	TT	1946722676

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_2959_3094641	NC_021160.1	Ca_kabuli_chr01	3094641	AA	GG	1946722682
SNP_P4_2960_3094799	NC_021160.1	Ca_kabuli_chr01	3094799	CC	TT	1946722684
SNP_P4_2961_3094961	NC_021160.1	Ca_kabuli_chr01	3094961	CC	TT	1946722686
SNP_P4_2963_3096277	NC_021160.1	Ca_kabuli_chr01	3096277	TT	CC	1946722688
SNP_P4_2964_3096285	NC_021160.1	Ca_kabuli_chr01	3096285	GG	AA	1946722690
SNP_P4_2965_3096379	NC_021160.1	Ca_kabuli_chr01	3096379	CC	AA	1946722692
SNP_P4_2967_3098946	NC_021160.1	Ca_kabuli_chr01	3098946	AA	GG	1946722694
SNP_P4_2968_3099385	NC_021160.1	Ca_kabuli_chr01	3099385	TT	CC	1946722696
SNP_P4_2969_3100353	NC_021160.1	Ca_kabuli_chr01	3100353	AA	GG	1946722698
SNP_P4_2970_3100382	NC_021160.1	Ca_kabuli_chr01	3100382	CC	GG	1946722700
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SNP_P4_2973_3105831	NC_021160.1	Ca_kabuli_chr01	3105831	CC	TT	1946722703
SNP_P4_2974_3107069	NC_021160.1	Ca_kabuli_chr01	3107069	GG	CC	1946722705
SNP_P4_2975_3107186	NC_021160.1	Ca_kabuli_chr01	3107186	GG	CC	1946722707
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SNP_P4_2979_3108963	NC_021160.1	Ca_kabuli_chr01	3108963	AA	GG	1946722712
SNP_P4_2980_3109145	NC_021160.1	Ca_kabuli_chr01	3109145	CC	GG	1946722714
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SNP_P4_2983_3112244	NC_021160.1	Ca_kabuli_chr01	3112244	TT	CC	1946722718
SNP_P4_2984_3112309	NC_021160.1	Ca_kabuli_chr01	3112309	AA	CC	1946722720
SNP_P4_2986_3112624	NC_021160.1	Ca_kabuli_chr01	3112624	TT	CC	1946722722
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SNP_P4_2991_3117200	NC_021160.1	Ca_kabuli_chr01	3117200	TT	CC	1946722730
SNP_P4_2992_3117261	NC_021160.1	Ca_kabuli_chr01	3117261	TT	CC	1946722732
SNP_P4_2993_3118009	NC_021160.1	Ca_kabuli_chr01	3118009	CC	GG	1946722734
SNP_P4_2994_3118668	NC_021160.1	Ca_kabuli_chr01	3118668	GG	AA	1946722736
SNP_P4_2995_3118670	NC_021160.1	Ca_kabuli_chr01	3118670	TT	CC	1946722738
SNP_P4_2996_3118681	NC_021160.1	Ca_kabuli_chr01	3118681	CC	TT	1946722740
SNP_P4_2999_3119781	NC_021160.1	Ca_kabuli_chr01	3119781	CC	GG	1946722742
SNP_P4_3000_3120092	NC_021160.1	Ca_kabuli_chr01	3120092	TT	CC	1946722744
SNP_P4_3001_3120165	NC_021160.1	Ca_kabuli_chr01	3120165	CC	AA	1946722746
SNP_P4_3002_3121567	NC_021160.1	Ca_kabuli_chr01	3121567	TT	CC	1946722748
SNP_P4_3003_3123653	NC_021160.1	Ca_kabuli_chr01	3123653	TT	GG	1946722750
SNP_P4_3004_3123997	NC_021160.1	Ca_kabuli_chr01	3123997	CC	GG	1946722752
SNP_P4_3005_3124020	NC_021160.1	Ca_kabuli_chr01	3124020	GG	CC	1946722754
SNP_P4_3006_3124065	NC_021160.1	Ca_kabuli_chr01	3124065	AA	GG	1946722756
SNP_P4_3008_3124087	NC_021160.1	Ca_kabuli_chr01	3124087	TT	CC	1946722758
SNP_P4_3009_3124193	NC_021160.1	Ca_kabuli_chr01	3124193	TT	GG	1946722760

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_3010_3124284	NC_021160.1	Ca_kabuli_chr01	3124284	TT	CC	1946722762
SNP_P4_3011_3124431	NC_021160.1	Ca_kabuli_chr01	3124431	GG	AA	1946722764
SNP_P4_3013_3125080	NC_021160.1	Ca_kabuli_chr01	3125080	TT	CC	1946722766
SNP_P4_3014_3125193	NC_021160.1	Ca_kabuli_chr01	3125193	GG	AA	1946722768
SNP_P4_3015_3125194	NC_021160.1	Ca_kabuli_chr01	3125194	TT	CC	1946722770
SNP_P4_3016_3125238	NC_021160.1	Ca_kabuli_chr01	3125238	TT	AA	1946722772
SNP_P4_3017_3125259	NC_021160.1	Ca_kabuli_chr01	3125259	CC	TT	1946722774
SNP_P4_3018_3125715	NC_021160.1	Ca_kabuli_chr01	3125715	AA	TT	1946722776
SNP_P4_3019_3125890	NC_021160.1	Ca_kabuli_chr01	3125890	GG	AA	1946722778
SNP_P4_3022_3126793	NC_021160.1	Ca_kabuli_chr01	3126793	CC	AA	1946722780
SNP_P4_3024_3126831	NC_021160.1	Ca_kabuli_chr01	3126831	AA	GG	1946722782
SNP_P4_3025_3126940	NC_021160.1	Ca_kabuli_chr01	3126940	TT	AA	1946722784
SNP_P4_3026_3127002	NC_021160.1	Ca_kabuli_chr01	3127002	GG	TT	1946722786
SNP_P4_3027_3127159	NC_021160.1	Ca_kabuli_chr01	3127159	GG	AA	1946722788
SNP_P4_3028_3127608	NC_021160.1	Ca_kabuli_chr01	3127608	AA	GG	1946722790
SNP_P4_3029_3127626	NC_021160.1	Ca_kabuli_chr01	3127626	CC	TT	1946722792
SNP_P4_3030_3127627	NC_021160.1	Ca_kabuli_chr01	3127627	AA	TT	1946722794
SNP_P4_3031_3127633	NC_021160.1	Ca_kabuli_chr01	3127633	TT	GG	1946722796
SNP_P4_3032_3129433	NC_021160.1	Ca_kabuli_chr01	3129433	TT	CC	1946722798
SNP_P4_3033_3129496	NC_021160.1	Ca_kabuli_chr01	3129496	TT	AA	1946722800
SNP_P4_3034_3130134	NC_021160.1	Ca_kabuli_chr01	3130134	CC	TT	1946722802
SNP_P4_3036_3130373	NC_021160.1	Ca_kabuli_chr01	3130373	TT	CC	1946722804
SNP_P4_3037_3130382	NC_021160.1	Ca_kabuli_chr01	3130382	CC	TT	1946722807
SNP_P4_3038_3130385	NC_021160.1	Ca_kabuli_chr01	3130385	AA	GG	1946722808
SNP_P4_3039_3130386	NC_021160.1	Ca_kabuli_chr01	3130386	TT	CC	1946722809
SNP_P4_3040_3130753	NC_021160.1	Ca_kabuli_chr01	3130753	CC	TT	1946722810
SNP_P4_3041_3130769	NC_021160.1	Ca_kabuli_chr01	3130769	TT	AA	1946722811
SNP_P4_3042_3130785	NC_021160.1	Ca_kabuli_chr01	3130785	CC	AA	1946722812
SNP_P4_3043_3130786	NC_021160.1	Ca_kabuli_chr01	3130786	GG	AA	1946722813
SNP_P4_3044_3130801	NC_021160.1	Ca_kabuli_chr01	3130801	GG	AA	1946722814
SNP_P4_3045_3130815	NC_021160.1	Ca_kabuli_chr01	3130815	CC	TT	1946722815
SNP_P4_3046_3130833	NC_021160.1	Ca_kabuli_chr01	3130833	TT	AA	1946722816
SNP_P4_3047_3130845	NC_021160.1	Ca_kabuli_chr01	3130845	CC	TT	1946722817
SNP_P4_3048_3131068	NC_021160.1	Ca_kabuli_chr01	3131068	CC	TT	1946722818
SNP_P4_3050_3131351	NC_021160.1	Ca_kabuli_chr01	3131351	AA	TT	1946722819
SNP_P4_3051_3131597	NC_021160.1	Ca_kabuli_chr01	3131597	AA	GG	1946722820
SNP_P4_3052_3132376	NC_021160.1	Ca_kabuli_chr01	3132376	GG	AA	1946722821
SNP_P4_3053_3132377	NC_021160.1	Ca_kabuli_chr01	3132377	AA	GG	1946722822
SNP_P4_3054_3132386	NC_021160.1	Ca_kabuli_chr01	3132386	AA	CC	1946722823
SNP_P4_3055_3132395	NC_021160.1	Ca_kabuli_chr01	3132395	CC	TT	1946722824
SNP_P4_3056_3132425	NC_021160.1	Ca_kabuli_chr01	3132425	AA	GG	1946722825
SNP_P4_3057_3132655	NC_021160.1	Ca_kabuli_chr01	3132655	CC	GG	1946722826

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_3059_3132922	NC_021160.1	Ca_kabuli_chr01	3132922	TT	AA	1946722828
SNP_P4_3060_3133214	NC_021160.1	Ca_kabuli_chr01	3133214	GG	AA	1946722829
SNP_P4_3061_3133394	NC_021160.1	Ca_kabuli_chr01	3133394	GG	TT	1946722830
SNP_P4_3062_3133449	NC_021160.1	Ca_kabuli_chr01	3133449	AA	CC	1946722831
SNP_P4_3063_3133458	NC_021160.1	Ca_kabuli_chr01	3133458	CC	TT	1946722832
SNP_P4_3065_3133586	NC_021160.1	Ca_kabuli_chr01	3133586	GG	AA	1946722833
SNP_P4_3066_3133763	NC_021160.1	Ca_kabuli_chr01	3133763	AA	GG	1946722834
SNP_P4_3067_3133802	NC_021160.1	Ca_kabuli_chr01	3133802	AA	TT	1946722835
SNP_P4_3068_3133832	NC_021160.1	Ca_kabuli_chr01	3133832	GG	TT	1946722836
SNP_P4_3069_3134129	NC_021160.1	Ca_kabuli_chr01	3134129	AA	GG	1946722837
SNP_P4_3070_3134158	NC_021160.1	Ca_kabuli_chr01	3134158	CC	AA	1946722838
SNP_P4_3071_3134162	NC_021160.1	Ca_kabuli_chr01	3134162	TT	CC	1946722839
SNP_P4_3072_3134455	NC_021160.1	Ca_kabuli_chr01	3134455	AA	CC	1946722841
SNP_P4_3073_3135077	NC_021160.1	Ca_kabuli_chr01	3135077	AA	CC	1946722843
SNP_P4_3075_3136229	NC_021160.1	Ca_kabuli_chr01	3136229	GG	TT	1946722845
SNP_P4_3076_3136285	NC_021160.1	Ca_kabuli_chr01	3136285	CC	TT	1946722847
SNP_P4_3077_3137051	NC_021160.1	Ca_kabuli_chr01	3137051	CC	TT	1946722849
SNP_P4_3078_3137080	NC_021160.1	Ca_kabuli_chr01	3137080	TT	CC	1946722851
SNP_P4_3080_3138483	NC_021160.1	Ca_kabuli_chr01	3138483	AA	GG	1946722853
SNP_P4_3081_3138515	NC_021160.1	Ca_kabuli_chr01	3138515	AA	TT	1946722855
SNP_P4_3082_3138522	NC_021160.1	Ca_kabuli_chr01	3138522	AA	TT	1946722857
SNP_P4_3083_3138523	NC_021160.1	Ca_kabuli_chr01	3138523	AA	TT	1946722859
SNP_P4_3084_3138524	NC_021160.1	Ca_kabuli_chr01	3138524	AA	TT	1946722861
SNP_P4_3085_3138525	NC_021160.1	Ca_kabuli_chr01	3138525	AA	TT	1946722863
SNP_P4_3086_3139111	NC_021160.1	Ca_kabuli_chr01	3139111	CC	TT	1946722865
SNP_P4_3087_3139896	NC_021160.1	Ca_kabuli_chr01	3139896	GG	CC	1946722867
SNP_P4_3088_3146365	NC_021160.1	Ca_kabuli_chr01	3146365	TT	CC	1946722869
SNP_P4_3089_3147290	NC_021160.1	Ca_kabuli_chr01	3147290	AA	GG	1946722871
SNP_P4_3091_3148684	NC_021160.1	Ca_kabuli_chr01	3148684	TT	CC	1946722873
SNP_P4_3092_3148741	NC_021160.1	Ca_kabuli_chr01	3148741	CC	GG	1946722875
SNP_P4_3095_3150293	NC_021160.1	Ca_kabuli_chr01	3150293	TT	CC	1946722877
SNP_P4_3096_3151284	NC_021160.1	Ca_kabuli_chr01	3151284	TT	CC	1946722880
SNP_P4_3097_3152105	NC_021160.1	Ca_kabuli_chr01	3152105	TT	GG	1946722882
SNP_P4_3098_3152793	NC_021160.1	Ca_kabuli_chr01	3152793	GG	AA	1946722885
SNP_P4_3099_3152811	NC_021160.1	Ca_kabuli_chr01	3152811	CC	AA	1946722887
SNP_P4_3100_3153130	NC_021160.1	Ca_kabuli_chr01	3153130	AA	GG	1946722889
SNP_P4_3101_3153144	NC_021160.1	Ca_kabuli_chr01	3153144	CC	TT	1946722891
SNP_P4_3102_3153649	NC_021160.1	Ca_kabuli_chr01	3153649	AA	TT	1946722893
SNP_P4_3103_3153776	NC_021160.1	Ca_kabuli_chr01	3153776	GG	TT	1946722895
SNP_P4_3104_3153790	NC_021160.1	Ca_kabuli_chr01	3153790	AA	GG	1946722897
SNP_P4_3105_3153791	NC_021160.1	Ca_kabuli_chr01	3153791	TT	GG	1946722899

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_3107_3155230	NC_021160.1	Ca_kabuli_chr01	3155230	AA	TT	1946722903
SNP_P4_3108_3155451	NC_021160.1	Ca_kabuli_chr01	3155451	AA	TT	1946722905
SNP_P4_3109_3155752	NC_021160.1	Ca_kabuli_chr01	3155752	AA	GG	1946722906
SNP_P4_3110_3155833	NC_021160.1	Ca_kabuli_chr01	3155833	AA	TT	1946722908
SNP_P4_3114_3157169	NC_021160.1	Ca_kabuli_chr01	3157169	AA	GG	1946722910
SNP_P4_3115_3157226	NC_021160.1	Ca_kabuli_chr01	3157226	GG	AA	1946722912
SNP_P4_3116_3161265	NC_021160.1	Ca_kabuli_chr01	3161265	CC	TT	1946722915
SNP_P4_3117_3165674	NC_021160.1	Ca_kabuli_chr01	3165674	CC	AA	1946722917
SNP_P4_3118_3188666	NC_021160.1	Ca_kabuli_chr01	3188666	TT	AA	1946722919
SNP_P4_3119_3191585	NC_021160.1	Ca_kabuli_chr01	3191585	GG	AA	1946722921
SNP_P4_3120_3195950	NC_021160.1	Ca_kabuli_chr01	3195950	AA	CC	1946722923
SNP_P4_3121_3195956	NC_021160.1	Ca_kabuli_chr01	3195956	CC	TT	1946722925
SNP_P4_3122_3195972	NC_021160.1	Ca_kabuli_chr01	3195972	AA	CC	1946722927
SNP_P4_3123_3196100	NC_021160.1	Ca_kabuli_chr01	3196100	CC	TT	1946722929
SNP_P4_3125_3225974	NC_021160.1	Ca_kabuli_chr01	3225974	GG	AA	1946722931
SNP_P4_3126_3245354	NC_021160.1	Ca_kabuli_chr01	3245354	AA	TT	1946722933
SNP_P4_3127_3255353	NC_021160.1	Ca_kabuli_chr01	3255353	CC	GG	1946722935
SNP_P4_3128_3262562	NC_021160.1	Ca_kabuli_chr01	3262562	AA	TT	1946722937
SNP_P4_3129_3274530	NC_021160.1	Ca_kabuli_chr01	3274530	AA	TT	1946722939
SNP_P4_3130_3278252	NC_021160.1	Ca_kabuli_chr01	3278252	GG	TT	1946722941
SNP_P4_3131_3284864	NC_021160.1	Ca_kabuli_chr01	3284864	CC	TT	1946722943
SNP_P4_3134_3287628	NC_021160.1	Ca_kabuli_chr01	3287628	AA	CC	1946722945
SNP_P4_3135_3287632	NC_021160.1	Ca_kabuli_chr01	3287632	AA	CC	1946722947
SNP_P4_3136_3288484	NC_021160.1	Ca_kabuli_chr01	3288484	AA	CC	1946722949
SNP_P4_3137_3289613	NC_021160.1	Ca_kabuli_chr01	3289613	AA	GG	1946722951
SNP_P4_3138_3289615	NC_021160.1	Ca_kabuli_chr01	3289615	AA	TT	1946722953
SNP_P4_3139_3289718	NC_021160.1	Ca_kabuli_chr01	3289718	TT	GG	1946722955
SNP_P4_3140_3289719	NC_021160.1	Ca_kabuli_chr01	3289719	AA	TT	1946722957
SNP_P4_3141_3314037	NC_021160.1	Ca_kabuli_chr01	3314037	CC	GG	1946722959
SNP_P4_3142_3314071	NC_021160.1	Ca_kabuli_chr01	3314071	GG	TT	1946722961
SNP_P4_3144_3322503	NC_021160.1	Ca_kabuli_chr01	3322503	TT	CC	1946722962
SNP_P4_3145_3324490	NC_021160.1	Ca_kabuli_chr01	3324490	AA	GG	1946722963
SNP_P4_3146_3325769	NC_021160.1	Ca_kabuli_chr01	3325769	AA	GG	1946722964
SNP_P4_3148_3330608	NC_021160.1	Ca_kabuli_chr01	3330608	CC	TT	1946722965
SNP_P4_3149_3330610	NC_021160.1	Ca_kabuli_chr01	3330610	AA	GG	1946722966
SNP_P4_3150_3341148	NC_021160.1	Ca_kabuli_chr01	3341148	AA	GG	1946722967
SNP_P4_3152_3398007	NC_021160.1	Ca_kabuli_chr01	3398007	CC	TT	1946722968
SNP_P4_3153_3415176	NC_021160.1	Ca_kabuli_chr01	3415176	CC	AA	1946722969
SNP_P4_3154_3417467	NC_021160.1	Ca_kabuli_chr01	3417467	AA	GG	1946722970
SNP_P4_3155_3432187	NC_021160.1	Ca_kabuli_chr01	3432187	TT	CC	1946722971
SNP_P4_3156_3456582	NC_021160.1	Ca_kabuli_chr01	3456582	TT	CC	1946722972

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_3158_3456621	NC_021160.1	Ca_kabuli_chr01	3456621	AA	GG	1946722974
SNP_P4_3159_3456739	NC_021160.1	Ca_kabuli_chr01	3456739	TT	GG	1946722975
SNP_P4_3160_3456794	NC_021160.1	Ca_kabuli_chr01	3456794	AA	TT	1946722976
SNP_P4_3161_3456839	NC_021160.1	Ca_kabuli_chr01	3456839	GG	TT	1946722977
SNP_P4_3162_3479780	NC_021160.1	Ca_kabuli_chr01	3479780	TT	AA	1946722978
SNP_P4_3163_3512296	NC_021160.1	Ca_kabuli_chr01	3512296	CC	TT	1946722979
SNP_P4_3164_3518124	NC_021160.1	Ca_kabuli_chr01	3518124	CC	AA	1946722980
SNP_P4_3165_3518202	NC_021160.1	Ca_kabuli_chr01	3518202	AA	GG	1946722981
SNP_P4_3166_3518631	NC_021160.1	Ca_kabuli_chr01	3518631	TT	CC	1946722982
SNP_P4_3167_3518891	NC_021160.1	Ca_kabuli_chr01	3518891	GG	CC	1946722983
SNP_P4_3168_3518927	NC_021160.1	Ca_kabuli_chr01	3518927	TT	GG	1946722984
SNP_P4_3170_3600648	NC_021160.1	Ca_kabuli_chr01	3600648	AA	TT	1946722985
SNP_P4_3171_3629038	NC_021160.1	Ca_kabuli_chr01	3629038	AA	GG	1946722986
SNP_P4_3173_3640090	NC_021160.1	Ca_kabuli_chr01	3640090	TT	CC	1946722987
SNP_P4_3176_3678428	NC_021160.1	Ca_kabuli_chr01	3678428	AA	TT	1946722988
SNP_P4_3177_3678430	NC_021160.1	Ca_kabuli_chr01	3678430	TT	AA	1946722989
SNP_P4_3178_3695299	NC_021160.1	Ca_kabuli_chr01	3695299	AA	GG	1946722990
SNP_P4_3180_3713673	NC_021160.1	Ca_kabuli_chr01	3713673	TT	CC	1946722991
SNP_P4_3182_3722777	NC_021160.1	Ca_kabuli_chr01	3722777	AA	GG	1946722992
SNP_P4_3183_3757944	NC_021160.1	Ca_kabuli_chr01	3757944	GG	AA	1946722993
SNP_P4_3184_3758069	NC_021160.1	Ca_kabuli_chr01	3758069	CC	TT	1946722994
SNP_P4_3185_3758323	NC_021160.1	Ca_kabuli_chr01	3758323	GG	AA	1946722995
SNP_P4_3186_3758370	NC_021160.1	Ca_kabuli_chr01	3758370	GG	TT	1946722996
SNP_P4_3188_3767882	NC_021160.1	Ca_kabuli_chr01	3767882	TT	CC	1946722997
SNP_P4_3189_3769569	NC_021160.1	Ca_kabuli_chr01	3769569	GG	AA	1946722998
SNP_P4_3190_3782047	NC_021160.1	Ca_kabuli_chr01	3782047	GG	TT	1946722999
SNP_P4_3191_3783144	NC_021160.1	Ca_kabuli_chr01	3783144	AA	CC	1946723000
SNP_P4_3192_3783483	NC_021160.1	Ca_kabuli_chr01	3783483	TT	AA	1946723001
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SNP_P4_3194_3783528	NC_021160.1	Ca_kabuli_chr01	3783528	TT	AA	1946723003
SNP_P4_3196_3783646	NC_021160.1	Ca_kabuli_chr01	3783646	GG	TT	1946723004
SNP_P4_3198_3790862	NC_021160.1	Ca_kabuli_chr01	3790862	GG	AA	1946723005
SNP_P4_3199_3809258	NC_021160.1	Ca_kabuli_chr01	3809258	TT	CC	1946723006
SNP_P4_3200_3821115	NC_021160.1	Ca_kabuli_chr01	3821115	TT	GG	1946723007
SNP_P4_3202_3823993	NC_021160.1	Ca_kabuli_chr01	3823993	TT	CC	1946723008
SNP_P4_3203_3836804	NC_021160.1	Ca_kabuli_chr01	3836804	TT	AA	1946723009
SNP_P4_3204_3848296	NC_021160.1	Ca_kabuli_chr01	3848296	AA	GG	1946723010
SNP_P4_3205_3856206	NC_021160.1	Ca_kabuli_chr01	3856206	TT	CC	1946723011
SNP_P4_3206_3865732	NC_021160.1	Ca_kabuli_chr01	3865732	TT	GG	1946723012
SNP_P4_3207_3886218	NC_021160.1	Ca_kabuli_chr01	3886218	AA	TT	1946723013
SNP_P4_3208_3929921	NC_021160.1	Ca_kabuli_chr01	3929921	AA	TT	1946723014

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_3210_3958762	NC_021160.1	Ca_kabuli_chr01	3958762	CC	TT	1946723016
SNP_P4_3212_4053445	NC_021160.1	Ca_kabuli_chr01	4053445	CC	TT	1946723017
SNP_P4_3213_4063179	NC_021160.1	Ca_kabuli_chr01	4063179	TT	AA	1946723018
SNP_P4_3214_4090400	NC_021160.1	Ca_kabuli_chr01	4090400	AA	TT	1946723019
SNP_P4_3215_4142618	NC_021160.1	Ca_kabuli_chr01	4142618	TT	AA	1946723020
SNP_P4_3217_4153720	NC_021160.1	Ca_kabuli_chr01	4153720	GG	AA	1946723021
SNP_P4_3218_4157786	NC_021160.1	Ca_kabuli_chr01	4157786	TT	CC	1946723022
SNP_P4_3219_4158790	NC_021160.1	Ca_kabuli_chr01	4158790	TT	GG	1946723023
SNP_P4_3220_4159049	NC_021160.1	Ca_kabuli_chr01	4159049	GG	TT	1946723024
SNP_P4_3221_4159068	NC_021160.1	Ca_kabuli_chr01	4159068	AA	GG	1946723025
SNP_P4_3222_4159378	NC_021160.1	Ca_kabuli_chr01	4159378	TT	GG	1946723026
SNP_P4_3223_4159731	NC_021160.1	Ca_kabuli_chr01	4159731	AA	GG	1946723027
SNP_P4_3224_4160339	NC_021160.1	Ca_kabuli_chr01	4160339	GG	AA	1946723028
SNP_P4_3225_4160959	NC_021160.1	Ca_kabuli_chr01	4160959	AA	TT	1946723029
SNP_P4_3226_4161012	NC_021160.1	Ca_kabuli_chr01	4161012	TT	CC	1946723030
SNP_P4_3227_4165848	NC_021160.1	Ca_kabuli_chr01	4165848	TT	CC	1946723031
SNP_P4_3228_4168102	NC_021160.1	Ca_kabuli_chr01	4168102	AA	CC	1946723032
SNP_P4_3229_4169793	NC_021160.1	Ca_kabuli_chr01	4169793	TT	CC	1946723033
SNP_P4_3231_4173998	NC_021160.1	Ca_kabuli_chr01	4173998	AA	CC	1946723035
SNP_P4_3232_4176358	NC_021160.1	Ca_kabuli_chr01	4176358	TT	CC	1946723038
SNP_P4_3235_4229220	NC_021160.1	Ca_kabuli_chr01	4229220	CC	TT	1946723040
SNP_P4_3236_4229231	NC_021160.1	Ca_kabuli_chr01	4229231	CC	TT	1946723042
SNP_P4_3237_4229411	NC_021160.1	Ca_kabuli_chr01	4229411	GG	AA	1946723044
SNP_P4_3238_4230132	NC_021160.1	Ca_kabuli_chr01	4230132	GG	TT	1946723046
SNP_P4_3239_4234957	NC_021160.1	Ca_kabuli_chr01	4234957	TT	CC	1946723048
SNP_P4_3240_4237189	NC_021160.1	Ca_kabuli_chr01	4237189	TT	CC	1946723050
SNP_P4_3241_4237650	NC_021160.1	Ca_kabuli_chr01	4237650	TT	AA	1946723052
SNP_P4_3242_4237736	NC_021160.1	Ca_kabuli_chr01	4237736	CC	TT	1946723054
SNP_P4_3243_4239971	NC_021160.1	Ca_kabuli_chr01	4239971	GG	TT	1946723056
SNP_P4_3244_4239994	NC_021160.1	Ca_kabuli_chr01	4239994	AA	GG	1946723059
SNP_P4_3245_4240044	NC_021160.1	Ca_kabuli_chr01	4240044	AA	GG	1946723061
SNP_P4_3246_4240196	NC_021160.1	Ca_kabuli_chr01	4240196	CC	TT	1946723063
SNP_P4_3247_4240236	NC_021160.1	Ca_kabuli_chr01	4240236	GG	AA	1946723065
SNP_P4_3248_4240259	NC_021160.1	Ca_kabuli_chr01	4240259	TT	CC	1946723067
SNP_P4_3249_4240299	NC_021160.1	Ca_kabuli_chr01	4240299	TT	CC	1946723069
SNP_P4_3250_4240691	NC_021160.1	Ca_kabuli_chr01	4240691	CC	GG	1946723071
SNP_P4_3251_4240695	NC_021160.1	Ca_kabuli_chr01	4240695	CC	TT	1946723073
SNP_P4_3252_4240796	NC_021160.1	Ca_kabuli_chr01	4240796	TT	CC	1946723075
SNP_P4_3253_4240797	NC_021160.1	Ca_kabuli_chr01	4240797	CC	TT	1946723077
SNP_P4_3254_4240800	NC_021160.1	Ca_kabuli_chr01	4240800	GG	AA	1946723079
SNP_P4_3255_4240850	NC_021160.1	Ca_kabuli_chr01	4240850	CC	GG	1946723081

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_3258_4240976	NC_021160.1	Ca_kabuli_chr01	4240976	TT	CC	1946723087
SNP_P4_3260_4241084	NC_021160.1	Ca_kabuli_chr01	4241084	GG	AA	1946723089
SNP_P4_3261_4241099	NC_021160.1	Ca_kabuli_chr01	4241099	AA	GG	1946723092
SNP_P4_3262_4241155	NC_021160.1	Ca_kabuli_chr01	4241155	GG	TT	1946723094
SNP_P4_3263_4241204	NC_021160.1	Ca_kabuli_chr01	4241204	TT	CC	1946723096
SNP_P4_3264_4241334	NC_021160.1	Ca_kabuli_chr01	4241334	CC	TT	1946723099
SNP_P4_3265_4250973	NC_021160.1	Ca_kabuli_chr01	4250973	TT	CC	1946723101
SNP_P4_3266_4252708	NC_021160.1	Ca_kabuli_chr01	4252708	AA	CC	1946723103
SNP_P4_3267_4253345	NC_021160.1	Ca_kabuli_chr01	4253345	GG	AA	1946723105
SNP_P4_3268_4253989	NC_021160.1	Ca_kabuli_chr01	4253989	GG	AA	1946723107
SNP_P4_3269_4257891	NC_021160.1	Ca_kabuli_chr01	4257891	AA	GG	1946723109
SNP_P4_3271_4261651	NC_021160.1	Ca_kabuli_chr01	4261651	CC	TT	1946723111
SNP_P4_3272_4263352	NC_021160.1	Ca_kabuli_chr01	4263352	GG	AA	1946723113
SNP_P4_3273_4266140	NC_021160.1	Ca_kabuli_chr01	4266140	TT	AA	1946723115
SNP_P4_3274_4277958	NC_021160.1	Ca_kabuli_chr01	4277958	AA	GG	1946723117
SNP_P4_3275_4280322	NC_021160.1	Ca_kabuli_chr01	4280322	CC	TT	1946723119
SNP_P4_3276_4287878	NC_021160.1	Ca_kabuli_chr01	4287878	CC	GG	1946723121
SNP_P4_3277_4288598	NC_021160.1	Ca_kabuli_chr01	4288598	CC	AA	1946723123
SNP_P4_3279_4314640	NC_021160.1	Ca_kabuli_chr01	4314640	TT	CC	1946723125
SNP_P4_3281_4329178	NC_021160.1	Ca_kabuli_chr01	4329178	TT	GG	1946723127
SNP_P4_3282_4356018	NC_021160.1	Ca_kabuli_chr01	4356018	GG	CC	1946723129
SNP_P4_3283_4370230	NC_021160.1	Ca_kabuli_chr01	4370230	CC	TT	1946723131
SNP_P4_3284_4387548	NC_021160.1	Ca_kabuli_chr01	4387548	TT	GG	1946723133
SNP_P4_3285_4387553	NC_021160.1	Ca_kabuli_chr01	4387553	CC	GG	1946723135
SNP_P4_3286_4395430	NC_021160.1	Ca_kabuli_chr01	4395430	GG	CC	1946723137
SNP_P4_3287_4412721	NC_021160.1	Ca_kabuli_chr01	4412721	TT	GG	1946723139
SNP_P4_3288_4412742	NC_021160.1	Ca_kabuli_chr01	4412742	TT	AA	1946723141
SNP_P4_3289_4435104	NC_021160.1	Ca_kabuli_chr01	4435104	GG	AA	1946723143
SNP_P4_3290_4435290	NC_021160.1	Ca_kabuli_chr01	4435290	TT	CC	1946723145
SNP_P4_3291_4435322	NC_021160.1	Ca_kabuli_chr01	4435322	AA	GG	1946723147
SNP_P4_3292_4444566	NC_021160.1	Ca_kabuli_chr01	4444566	AA	TT	1946723149
SNP_P4_3293_4448068	NC_021160.1	Ca_kabuli_chr01	4448068	CC	AA	1946723151
SNP_P4_3294_4458258	NC_021160.1	Ca_kabuli_chr01	4458258	GG	AA	1946723153
SNP_P4_3295_4458259	NC_021160.1	Ca_kabuli_chr01	4458259	AA	TT	1946723155
SNP_P4_3296_4458261	NC_021160.1	Ca_kabuli_chr01	4458261	GG	AA	1946723158
SNP_P4_3297_4458314	NC_021160.1	Ca_kabuli_chr01	4458314	CC	GG	1946723160
SNP_P4_3298_4458340	NC_021160.1	Ca_kabuli_chr01	4458340	AA	GG	1946723162
SNP_P4_3299_4458341	NC_021160.1	Ca_kabuli_chr01	4458341	TT	CC	1946723164
SNP_P4_3301_4515753	NC_021160.1	Ca_kabuli_chr01	4515753	GG	AA	1946723166
SNP_P4_3302_4539412	NC_021160.1	Ca_kabuli_chr01	4539412	CC	TT	1946723168

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_3304_4541430	NC_021160.1	Ca_kabuli_chr01	4541430	TT	GG	1946723172
SNP_P4_3305_4548025	NC_021160.1	Ca_kabuli_chr01	4548025	TT	AA	1946723174
SNP_P4_3306_4555984	NC_021160.1	Ca_kabuli_chr01	4555984	TT	GG	1946723176
SNP_P4_3308_4613093	NC_021160.1	Ca_kabuli_chr01	4613093	AA	TT	1946723178
SNP_P4_3309_4614433	NC_021160.1	Ca_kabuli_chr01	4614433	CC	TT	1946723180
SNP_P4_3310_4645462	NC_021160.1	Ca_kabuli_chr01	4645462	AA	GG	1946723182
SNP_P4_3312_4649591	NC_021160.1	Ca_kabuli_chr01	4649591	AA	GG	1946723184
SNP_P4_3313_4667968	NC_021160.1	Ca_kabuli_chr01	4667968	GG	AA	1946723186
SNP_P4_3314_4668573	NC_021160.1	Ca_kabuli_chr01	4668573	TT	AA	1946723188
SNP_P4_3315_4680078	NC_021160.1	Ca_kabuli_chr01	4680078	TT	CC	1946723190
SNP_P4_3316_4691092	NC_021160.1	Ca_kabuli_chr01	4691092	AA	GG	1946723192
SNP_P4_3317_4694064	NC_021160.1	Ca_kabuli_chr01	4694064	GG	AA	1946723194
SNP_P4_3318_4694098	NC_021160.1	Ca_kabuli_chr01	4694098	CC	TT	1946723196
SNP_P4_3319_4712062	NC_021160.1	Ca_kabuli_chr01	4712062	AA	GG	1946723198
SNP_P4_3320_4712617	NC_021160.1	Ca_kabuli_chr01	4712617	GG	AA	1946723200
SNP_P4_3321_4712637	NC_021160.1	Ca_kabuli_chr01	4712637	TT	AA	1946723202
SNP_P4_3322_4712644	NC_021160.1	Ca_kabuli_chr01	4712644	AA	GG	1946723204
SNP_P4_3323_4712684	NC_021160.1	Ca_kabuli_chr01	4712684	AA	TT	1946723207
SNP_P4_3324_4712829	NC_021160.1	Ca_kabuli_chr01	4712829	CC	TT	1946723209
SNP_P4_3325_4712830	NC_021160.1	Ca_kabuli_chr01	4712830	AA	GG	1946723211
SNP_P4_3326_4712845	NC_021160.1	Ca_kabuli_chr01	4712845	CC	GG	1946723213
SNP_P4_3327_4713019	NC_021160.1	Ca_kabuli_chr01	4713019	AA	GG	1946723215
SNP_P4_3328_4713028	NC_021160.1	Ca_kabuli_chr01	4713028	CC	TT	1946723217
SNP_P4_3329_4713347	NC_021160.1	Ca_kabuli_chr01	4713347	GG	AA	1946723219
SNP_P4_3330_4713995	NC_021160.1	Ca_kabuli_chr01	4713995	GG	AA	1946723221
SNP_P4_3331_4714009	NC_021160.1	Ca_kabuli_chr01	4714009	GG	AA	1946723223
SNP_P4_3332_4714020	NC_021160.1	Ca_kabuli_chr01	4714020	GG	AA	1946723225
SNP_P4_3333_4714028	NC_021160.1	Ca_kabuli_chr01	4714028	AA	CC	1946723227
SNP_P4_3334_4714094	NC_021160.1	Ca_kabuli_chr01	4714094	GG	TT	1946723229
SNP_P4_3335_4714132	NC_021160.1	Ca_kabuli_chr01	4714132	GG	TT	1946723231
SNP_P4_3336_4716136	NC_021160.1	Ca_kabuli_chr01	4716136	TT	CC	1946723233
SNP_P4_3337_4717542	NC_021160.1	Ca_kabuli_chr01	4717542	CC	TT	1946723235
SNP_P4_3338_4717769	NC_021160.1	Ca_kabuli_chr01	4717769	TT	CC	1946723237
SNP_P4_3339_4718350	NC_021160.1	Ca_kabuli_chr01	4718350	CC	AA	1946723239
SNP_P4_3341_4719711	NC_021160.1	Ca_kabuli_chr01	4719711	GG	AA	1946723241
SNP_P4_3343_4720401	NC_021160.1	Ca_kabuli_chr01	4720401	GG	AA	1946723243
SNP_P4_3346_4720752	NC_021160.1	Ca_kabuli_chr01	4720752	AA	CC	1946723246
SNP_P4_3348_4721483	NC_021160.1	Ca_kabuli_chr01	4721483	GG	TT	1946723248
SNP_P4_3349_4721544	NC_021160.1	Ca_kabuli_chr01	4721544	AA	TT	1946723250
SNP_P4_3350_4721593	NC_021160.1	Ca_kabuli_chr01	4721593	CC	AA	1946723252
SNP_P4_3351_4724009	NC_021160.1	Ca_kabuli_chr01	4724009	GG	TT	1946723254

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_3352_4724011	NC_021160.1	Ca_kabuli_chr01	4724011	GG	CC	1946723256
SNP_P4_3354_4728275	NC_021160.1	Ca_kabuli_chr01	4728275	GG	AA	1946723258
SNP_P4_3355_4728559	NC_021160.1	Ca_kabuli_chr01	4728559	GG	AA	1946723260
SNP_P4_3356_4735709	NC_021160.1	Ca_kabuli_chr01	4735709	CC	TT	1946723262
SNP_P4_3357_4741659	NC_021160.1	Ca_kabuli_chr01	4741659	AA	TT	1946723264
SNP_P4_3358_4741695	NC_021160.1	Ca_kabuli_chr01	4741695	AA	TT	1946723266
SNP_P4_3359_4742079	NC_021160.1	Ca_kabuli_chr01	4742079	AA	GG	1946723268
SNP_P4_3360_4742080	NC_021160.1	Ca_kabuli_chr01	4742080	GG	TT	1946723270
SNP_P4_3362_4742723	NC_021160.1	Ca_kabuli_chr01	4742723	AA	GG	1946723272
SNP_P4_3363_4743825	NC_021160.1	Ca_kabuli_chr01	4743825	AA	GG	1946723274
SNP_P4_3364_4744502	NC_021160.1	Ca_kabuli_chr01	4744502	CC	TT	1946723276
SNP_P4_3365_4745135	NC_021160.1	Ca_kabuli_chr01	4745135	AA	TT	1946723278
SNP_P4_3366_4762154	NC_021160.1	Ca_kabuli_chr01	4762154	AA	TT	1946723280
SNP_P4_3368_4780345	NC_021160.1	Ca_kabuli_chr01	4780345	GG	TT	1946723282
SNP_P4_3369_4784330	NC_021160.1	Ca_kabuli_chr01	4784330	CC	TT	1946723284
SNP_P4_3370_4784680	NC_021160.1	Ca_kabuli_chr01	4784680	CC	AA	1946723286
SNP_P4_3371_4800842	NC_021160.1	Ca_kabuli_chr01	4800842	GG	AA	1946723288
SNP_P4_3373_4808920	NC_021160.1	Ca_kabuli_chr01	4808920	GG	CC	1946723290
SNP_P4_3374_4808927	NC_021160.1	Ca_kabuli_chr01	4808927	AA	GG	1946723292
SNP_P4_3376_4809276	NC_021160.1	Ca_kabuli_chr01	4809276	CC	TT	1946723295
SNP_P4_3377_4819295	NC_021160.1	Ca_kabuli_chr01	4819295	GG	AA	1946723297
SNP_P4_3378_4854921	NC_021160.1	Ca_kabuli_chr01	4854921	AA	TT	1946723299
SNP_P4_3379_4896281	NC_021160.1	Ca_kabuli_chr01	4896281	TT	AA	1946723301
SNP_P4_3380_4896291	NC_021160.1	Ca_kabuli_chr01	4896291	AA	GG	1946723303
SNP_P4_3381_4896756	NC_021160.1	Ca_kabuli_chr01	4896756	TT	CC	1946723305
SNP_P4_3382_4899805	NC_021160.1	Ca_kabuli_chr01	4899805	CC	TT	1946723307
SNP_P4_3384_4900077	NC_021160.1	Ca_kabuli_chr01	4900077	TT	CC	1946723309
SNP_P4_3386_4900256	NC_021160.1	Ca_kabuli_chr01	4900256	AA	TT	1946723311
SNP_P4_3389_4900659	NC_021160.1	Ca_kabuli_chr01	4900659	AA	GG	1946723313
SNP_P4_3390_4900697	NC_021160.1	Ca_kabuli_chr01	4900697	CC	TT	1946723315
SNP_P4_3391_4900727	NC_021160.1	Ca_kabuli_chr01	4900727	CC	TT	1946723317
SNP_P4_3392_4900887	NC_021160.1	Ca_kabuli_chr01	4900887	GG	CC	1946723319
SNP_P4_3393_4906248	NC_021160.1	Ca_kabuli_chr01	4906248	TT	CC	1946723321
SNP_P4_3394_4906252	NC_021160.1	Ca_kabuli_chr01	4906252	GG	CC	1946723323
SNP_P4_3395_4906279	NC_021160.1	Ca_kabuli_chr01	4906279	GG	AA	1946723325
SNP_P4_3396_4906307	NC_021160.1	Ca_kabuli_chr01	4906307	GG	AA	1946723327
SNP_P4_3397_4906318	NC_021160.1	Ca_kabuli_chr01	4906318	CC	TT	1946723329
SNP_P4_3398_4906332	NC_021160.1	Ca_kabuli_chr01	4906332	TT	CC	1946723331
SNP_P4_3399_4906531	NC_021160.1	Ca_kabuli_chr01	4906531	AA	GG	1946723333
SNP_P4_3400_4906532	NC_021160.1	Ca_kabuli_chr01	4906532	GG	CC	1946723335
SNP_P4_3401_4906626	NC_021160.1	Ca_kabuli_chr01	4906626	AA	TT	1946723337
SNP_P4_3402_4906629	NC_021160.1	Ca_kabuli_chr01	4906629	CC	GG	1946723339

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_3404_4906689	NC_021160.1	Ca_kabuli_chr01	4906689	TT	GG	1946723343
SNP_P4_3405_4906691	NC_021160.1	Ca_kabuli_chr01	4906691	TT	CC	1946723345
SNP_P4_3406_4906854	NC_021160.1	Ca_kabuli_chr01	4906854	AA	GG	1946723347
SNP_P4_3407_4906863	NC_021160.1	Ca_kabuli_chr01	4906863	GG	TT	1946723349
SNP_P4_3408_4907987	NC_021160.1	Ca_kabuli_chr01	4907987	TT	CC	1946723351
SNP_P4_3409_4908263	NC_021160.1	Ca_kabuli_chr01	4908263	CC	AA	1946723353
SNP_P4_3410_4908732	NC_021160.1	Ca_kabuli_chr01	4908732	AA	TT	1946723355
SNP_P4_3411_4908733	NC_021160.1	Ca_kabuli_chr01	4908733	CC	AA	1946723357
SNP_P4_3412_4908770	NC_021160.1	Ca_kabuli_chr01	4908770	AA	GG	1946723359
SNP_P4_3413_4908772	NC_021160.1	Ca_kabuli_chr01	4908772	CC	TT	1946723361
SNP_P4_3414_4908884	NC_021160.1	Ca_kabuli_chr01	4908884	CC	TT	1946723363
SNP_P4_3415_4908939	NC_021160.1	Ca_kabuli_chr01	4908939	TT	CC	1946723364
SNP_P4_3416_4908940	NC_021160.1	Ca_kabuli_chr01	4908940	TT	GG	1946723366
SNP_P4_3417_4916548	NC_021160.1	Ca_kabuli_chr01	4916548	AA	GG	1946723368
SNP_P4_3418_4933962	NC_021160.1	Ca_kabuli_chr01	4933962	AA	CC	1946723370
SNP_P4_3419_4933963	NC_021160.1	Ca_kabuli_chr01	4933963	CC	GG	1946723372
SNP_P4_3420_4933982	NC_021160.1	Ca_kabuli_chr01	4933982	CC	GG	1946723374
SNP_P4_3421_4933983	NC_021160.1	Ca_kabuli_chr01	4933983	CC	GG	1946723376
SNP_P4_3422_4934187	NC_021160.1	Ca_kabuli_chr01	4934187	AA	GG	1946723378
SNP_P4_3423_4934210	NC_021160.1	Ca_kabuli_chr01	4934210	TT	GG	1946723380
SNP_P4_3424_4940016	NC_021160.1	Ca_kabuli_chr01	4940016	CC	GG	1946723382
SNP_P4_3425_4956833	NC_021160.1	Ca_kabuli_chr01	4956833	CC	TT	1946723384
SNP_P4_3427_4965746	NC_021160.1	Ca_kabuli_chr01	4965746	GG	AA	1946723386
SNP_P4_3428_4965816	NC_021160.1	Ca_kabuli_chr01	4965816	GG	AA	1946723388
SNP_P4_3431_4971228	NC_021160.1	Ca_kabuli_chr01	4971228	CC	TT	1946723390
SNP_P4_3432_4972096	NC_021160.1	Ca_kabuli_chr01	4972096	TT	CC	1946723392
SNP_P4_3433_4972116	NC_021160.1	Ca_kabuli_chr01	4972116	CC	TT	1946723394
SNP_P4_3435_4975362	NC_021160.1	Ca_kabuli_chr01	4975362	AA	TT	1946723396
SNP_P4_3436_4983318	NC_021160.1	Ca_kabuli_chr01	4983318	CC	GG	1946723398
SNP_P4_3437_4983319	NC_021160.1	Ca_kabuli_chr01	4983319	AA	TT	1946723400
SNP_P4_3438_5016248	NC_021160.1	Ca_kabuli_chr01	5016248	AA	GG	1946723402
SNP_P4_3439_5016659	NC_021160.1	Ca_kabuli_chr01	5016659	CC	TT	1946723404
SNP_P4_3440_5024400	NC_021160.1	Ca_kabuli_chr01	5024400	TT	CC	1946723406
SNP_P4_3441_5026204	NC_021160.1	Ca_kabuli_chr01	5026204	AA	GG	1946723408
SNP_P4_3442_5027314	NC_021160.1	Ca_kabuli_chr01	5027314	GG	AA	1946723409
SNP_P4_3443_5040476	NC_021160.1	Ca_kabuli_chr01	5040476	TT	CC	1946723411
SNP_P4_3444_5040908	NC_021160.1	Ca_kabuli_chr01	5040908	CC	TT	1946723413
SNP_P4_3445_5040942	NC_021160.1	Ca_kabuli_chr01	5040942	CC	TT	1946723415
SNP_P4_3447_5172596	NC_021160.1	Ca_kabuli_chr01	5172596	AA	GG	1946723417
SNP_P4_3449_5180865	NC_021160.1	Ca_kabuli_chr01	5180865	AA	TT	1946723419
SNP_P4_3450_5197154	NC_021160.1	Ca_kabuli_chr01	5197154	CC	GG	1946723421

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_3452_5207359	NC_021160.1	Ca_kabuli_chr01	5207359	GG	AA	1946723425
SNP_P4_3453_5243859	NC_021160.1	Ca_kabuli_chr01	5243859	TT	AA	1946723427
SNP_P4_3454_5254662	NC_021160.1	Ca_kabuli_chr01	5254662	TT	CC	1946723429
SNP_P4_3455_5255007	NC_021160.1	Ca_kabuli_chr01	5255007	CC	TT	1946723431
SNP_P4_3456_5255049	NC_021160.1	Ca_kabuli_chr01	5255049	TT	CC	1946723433
SNP_P4_3457_5255065	NC_021160.1	Ca_kabuli_chr01	5255065	GG	AA	1946723435
SNP_P4_3458_5255066	NC_021160.1	Ca_kabuli_chr01	5255066	AA	GG	1946723437
SNP_P4_3459_5262653	NC_021160.1	Ca_kabuli_chr01	5262653	GG	AA	1946723439
SNP_P4_3460_5262658	NC_021160.1	Ca_kabuli_chr01	5262658	AA	TT	1946723441
SNP_P4_3461_5262660	NC_021160.1	Ca_kabuli_chr01	5262660	AA	GG	1946723443
SNP_P4_3462_5273285	NC_021160.1	Ca_kabuli_chr01	5273285	TT	AA	1946723445
SNP_P4_3465_5310819	NC_021160.1	Ca_kabuli_chr01	5310819	GG	TT	1946723447
SNP_P4_3466_5312554	NC_021160.1	Ca_kabuli_chr01	5312554	CC	AA	1946723449
SNP_P4_3467_5312691	NC_021160.1	Ca_kabuli_chr01	5312691	GG	AA	1946723451
SNP_P4_3468_5312756	NC_021160.1	Ca_kabuli_chr01	5312756	AA	GG	1946723453
SNP_P4_3469_5315132	NC_021160.1	Ca_kabuli_chr01	5315132	TT	AA	1946723455
SNP_P4_3470_5345623	NC_021160.1	Ca_kabuli_chr01	5345623	GG	TT	1946723457
SNP_P4_3471_5347141	NC_021160.1	Ca_kabuli_chr01	5347141	GG	AA	1946723459
SNP_P4_3472_5347181	NC_021160.1	Ca_kabuli_chr01	5347181	AA	GG	1946723461
SNP_P4_3473_5348104	NC_021160.1	Ca_kabuli_chr01	5348104	AA	TT	1946723463
SNP_P4_3474_5348883	NC_021160.1	Ca_kabuli_chr01	5348883	AA	GG	1946723465
SNP_P4_3475_5348895	NC_021160.1	Ca_kabuli_chr01	5348895	CC	TT	1946723467
SNP_P4_3476_5349271	NC_021160.1	Ca_kabuli_chr01	5349271	GG	AA	1946723469
SNP_P4_3477_5349295	NC_021160.1	Ca_kabuli_chr01	5349295	AA	TT	1946723471
SNP_P4_3478_5349964	NC_021160.1	Ca_kabuli_chr01	5349964	CC	TT	1946723473
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SNP_P4_3481_5350009	NC_021160.1	Ca_kabuli_chr01	5350009	AA	TT	1946723479
SNP_P4_3482_5350042	NC_021160.1	Ca_kabuli_chr01	5350042	TT	CC	1946723481
SNP_P4_3483_5350144	NC_021160.1	Ca_kabuli_chr01	5350144	TT	AA	1946723483
SNP_P4_3484_5350342	NC_021160.1	Ca_kabuli_chr01	5350342	AA	GG	1946723485
SNP_P4_3485_5350388	NC_021160.1	Ca_kabuli_chr01	5350388	GG	AA	1946723487
SNP_P4_3487_5352165	NC_021160.1	Ca_kabuli_chr01	5352165	AA	GG	1946723489
SNP_P4_3488_5357253	NC_021160.1	Ca_kabuli_chr01	5357253	CC	AA	1946723491
SNP_P4_3489_5357420	NC_021160.1	Ca_kabuli_chr01	5357420	TT	GG	1946723493
SNP_P4_3490_5357484	NC_021160.1	Ca_kabuli_chr01	5357484	TT	CC	1946723495
SNP_P4_3491_5357884	NC_021160.1	Ca_kabuli_chr01	5357884	CC	TT	1946723497
SNP_P4_3492_5357894	NC_021160.1	Ca_kabuli_chr01	5357894	TT	AA	1946723499
SNP_P4_3493_5359109	NC_021160.1	Ca_kabuli_chr01	5359109	TT	CC	1946723501
SNP_P4_3494_5359148	NC_021160.1	Ca_kabuli_chr01	5359148	TT	GG	1946723503
SNP_P4_3495_5366042	NC_021160.1	Ca_kabuli_chr01	5366042	AA	TT	1946723505

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_3497_5366634	NC_021160.1	Ca_kabuli_chr01	5366634	CC	AA	1946723508
SNP_P4_3498_5366836	NC_021160.1	Ca_kabuli_chr01	5366836	GG	AA	1946723510
SNP_P4_3499_5366866	NC_021160.1	Ca_kabuli_chr01	5366866	TT	GG	1946723512
SNP_P4_3500_5367164	NC_021160.1	Ca_kabuli_chr01	5367164	CC	TT	1946723514
SNP_P4_3501_5367308	NC_021160.1	Ca_kabuli_chr01	5367308	CC	TT	1946723516
SNP_P4_3502_5371366	NC_021160.1	Ca_kabuli_chr01	5371366	TT	GG	1946723518
SNP_P4_3503_5371581	NC_021160.1	Ca_kabuli_chr01	5371581	AA	TT	1946723520
SNP_P4_3504_5373260	NC_021160.1	Ca_kabuli_chr01	5373260	AA	GG	1946723522
SNP_P4_3505_5373317	NC_021160.1	Ca_kabuli_chr01	5373317	TT	CC	1946723524
SNP_P4_3506_5376134	NC_021160.1	Ca_kabuli_chr01	5376134	CC	TT	1946723526
SNP_P4_3507_5376583	NC_021160.1	Ca_kabuli_chr01	5376583	CC	GG	1946723528
SNP_P4_3508_5376643	NC_021160.1	Ca_kabuli_chr01	5376643	AA	GG	1946723530
SNP_P4_3509_5376907	NC_021160.1	Ca_kabuli_chr01	5376907	CC	TT	1946723532
SNP_P4_3510_5382883	NC_021160.1	Ca_kabuli_chr01	5382883	GG	TT	1946723534
SNP_P4_3511_5384623	NC_021160.1	Ca_kabuli_chr01	5384623	AA	GG	1946723536
SNP_P4_3512_5389446	NC_021160.1	Ca_kabuli_chr01	5389446	CC	TT	1946723538
SNP_P4_3513_5390021	NC_021160.1	Ca_kabuli_chr01	5390021	TT	GG	1946723540
SNP_P4_3514_5390197	NC_021160.1	Ca_kabuli_chr01	5390197	CC	TT	1946723542
SNP_P4_3515_5391024	NC_021160.1	Ca_kabuli_chr01	5391024	TT	GG	1946723544
SNP_P4_3516_5391902	NC_021160.1	Ca_kabuli_chr01	5391902	AA	GG	1946723546
SNP_P4_3517_5391917	NC_021160.1	Ca_kabuli_chr01	5391917	TT	CC	1946723548
SNP_P4_3518_5392111	NC_021160.1	Ca_kabuli_chr01	5392111	GG	AA	1946723550
SNP_P4_3520_5393520	NC_021160.1	Ca_kabuli_chr01	5393520	AA	TT	1946723552
SNP_P4_3521_5394157	NC_021160.1	Ca_kabuli_chr01	5394157	CC	AA	1946723554
SNP_P4_3522_5394529	NC_021160.1	Ca_kabuli_chr01	5394529	TT	GG	1946723556
SNP_P4_3523_5397721	NC_021160.1	Ca_kabuli_chr01	5397721	AA	GG	1946723558
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SNP_P4_3525_5398271	NC_021160.1	Ca_kabuli_chr01	5398271	CC	TT	1946723562
SNP_P4_3526_5398291	NC_021160.1	Ca_kabuli_chr01	5398291	CC	TT	1946723564
SNP_P4_3527_5398297	NC_021160.1	Ca_kabuli_chr01	5398297	TT	CC	1946723566
SNP_P4_3528_5398304	NC_021160.1	Ca_kabuli_chr01	5398304	TT	CC	1946723568
SNP_P4_3529_5402297	NC_021160.1	Ca_kabuli_chr01	5402297	TT	AA	1946723570
SNP_P4_3530_5402317	NC_021160.1	Ca_kabuli_chr01	5402317	AA	GG	1946723572
SNP_P4_3531_5402927	NC_021160.1	Ca_kabuli_chr01	5402927	CC	AA	1946723574
SNP_P4_3532_5407067	NC_021160.1	Ca_kabuli_chr01	5407067	AA	CC	1946723576
SNP_P4_3533_5413538	NC_021160.1	Ca_kabuli_chr01	5413538	TT	CC	1946723578
SNP_P4_3534_5414531	NC_021160.1	Ca_kabuli_chr01	5414531	TT	CC	1946723580
SNP_P4_3535_5414651	NC_021160.1	Ca_kabuli_chr01	5414651	GG	AA	1946723582
SNP_P4_3536_5417061	NC_021160.1	Ca_kabuli_chr01	5417061	TT	AA	1946723584
SNP_P4_3537_5417095	NC_021160.1	Ca_kabuli_chr01	5417095	CC	AA	1946723586
SNP_P4_3538_5417096	NC_021160.1	Ca_kabuli_chr01	5417096	AA	TT	1946723588

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_3540_5417348	NC_021160.1	Ca_kabuli_chr01	5417348	TT	AA	1946723592
SNP_P4_3541_5417477	NC_021160.1	Ca_kabuli_chr01	5417477	AA	GG	1946723594
SNP_P4_3543_5417868	NC_021160.1	Ca_kabuli_chr01	5417868	GG	AA	1946723596
SNP_P4_3545_5419724	NC_021160.1	Ca_kabuli_chr01	5419724	AA	GG	1946723598
SNP_P4_3546_5419731	NC_021160.1	Ca_kabuli_chr01	5419731	AA	TT	1946723600
SNP_P4_3547_5419778	NC_021160.1	Ca_kabuli_chr01	5419778	TT	CC	1946723602
SNP_P4_3548_5419785	NC_021160.1	Ca_kabuli_chr01	5419785	GG	AA	1946723604
SNP_P4_3550_5420264	NC_021160.1	Ca_kabuli_chr01	5420264	AA	GG	1946723606
SNP_P4_3551_5420394	NC_021160.1	Ca_kabuli_chr01	5420394	CC	TT	1946723608
SNP_P4_3552_5421113	NC_021160.1	Ca_kabuli_chr01	5421113	AA	TT	1946723610
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SNP_P4_3556_5423443	NC_021160.1	Ca_kabuli_chr01	5423443	GG	AA	1946723618
SNP_P4_3557_5425388	NC_021160.1	Ca_kabuli_chr01	5425388	TT	AA	1946723620
SNP_P4_3559_5426591	NC_021160.1	Ca_kabuli_chr01	5426591	TT	AA	1946723622
SNP_P4_3560_5426592	NC_021160.1	Ca_kabuli_chr01	5426592	TT	CC	1946723624
SNP_P4_3561_5426681	NC_021160.1	Ca_kabuli_chr01	5426681	GG	AA	1946723626
SNP_P4_3562_5426968	NC_021160.1	Ca_kabuli_chr01	5426968	AA	GG	1946723628
SNP_P4_3565_5428968	NC_021160.1	Ca_kabuli_chr01	5428968	AA	GG	1946723630
SNP_P4_3566_5429055	NC_021160.1	Ca_kabuli_chr01	5429055	CC	TT	1946723632
SNP_P4_3567_5429079	NC_021160.1	Ca_kabuli_chr01	5429079	GG	AA	1946723634
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SNP_P4_3572_5433377	NC_021160.1	Ca_kabuli_chr01	5433377	TT	CC	1946723644
SNP_P4_3573_5433573	NC_021160.1	Ca_kabuli_chr01	5433573	AA	GG	1946723646
SNP_P4_3575_5440636	NC_021160.1	Ca_kabuli_chr01	5440636	GG	TT	1946723648
SNP_P4_3576_5440685	NC_021160.1	Ca_kabuli_chr01	5440685	TT	GG	1946723650
SNP_P4_3577_5440759	NC_021160.1	Ca_kabuli_chr01	5440759	GG	AA	1946723652
SNP_P4_3578_5440763	NC_021160.1	Ca_kabuli_chr01	5440763	TT	AA	1946723654
SNP_P4_3579_5440955	NC_021160.1	Ca_kabuli_chr01	5440955	AA	GG	1946723656
SNP_P4_3580_5440974	NC_021160.1	Ca_kabuli_chr01	5440974	AA	GG	1946723658
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SNP_P4_3582_5446440	NC_021160.1	Ca_kabuli_chr01	5446440	TT	GG	1946723662
SNP_P4_3583_5446441	NC_021160.1	Ca_kabuli_chr01	5446441	TT	CC	1946723664
SNP_P4_3584_5446443	NC_021160.1	Ca_kabuli_chr01	5446443	TT	GG	1946723666
SNP_P4_3585_5446455	NC_021160.1	Ca_kabuli_chr01	5446455	CC	GG	1946723668
SNP_P4_3586_5446467	NC_021160.1	Ca_kabuli_chr01	5446467	CC	TT	1946723670
SNP_P4_3588_5447025	NC_021160.1	Ca_kabuli_chr01	5447025	GG	TT	1946723672

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_3590_5447405	NC_021160.1	Ca_kabuli_chr01	5447405	AA	TT	1946723675
SNP_P4_3591_5447452	NC_021160.1	Ca_kabuli_chr01	5447452	AA	GG	1946723677
SNP_P4_3592_5447529	NC_021160.1	Ca_kabuli_chr01	5447529	GG	AA	1946723679
SNP_P4_3593_5447544	NC_021160.1	Ca_kabuli_chr01	5447544	AA	GG	1946723680
SNP_P4_3594_5447566	NC_021160.1	Ca_kabuli_chr01	5447566	CC	TT	1946723681
SNP_P4_3595_5447578	NC_021160.1	Ca_kabuli_chr01	5447578	TT	CC	1946723682
SNP_P4_3596_5447606	NC_021160.1	Ca_kabuli_chr01	5447606	CC	TT	1946723684
SNP_P4_3597_5447765	NC_021160.1	Ca_kabuli_chr01	5447765	AA	GG	1946723686
SNP_P4_3598_5449641	NC_021160.1	Ca_kabuli_chr01	5449641	TT	CC	1946723688
SNP_P4_3599_5449674	NC_021160.1	Ca_kabuli_chr01	5449674	CC	AA	1946723690
SNP_P4_3600_5449968	NC_021160.1	Ca_kabuli_chr01	5449968	TT	CC	1946723692
SNP_P4_3601_5452542	NC_021160.1	Ca_kabuli_chr01	5452542	TT	CC	1946723693
SNP_P4_3602_5452780	NC_021160.1	Ca_kabuli_chr01	5452780	CC	AA	1946723695
SNP_P4_3603_5452786	NC_021160.1	Ca_kabuli_chr01	5452786	CC	AA	1946723697
SNP_P4_3604_5453005	NC_021160.1	Ca_kabuli_chr01	5453005	CC	GG	1946723699
SNP_P4_3605_5453109	NC_021160.1	Ca_kabuli_chr01	5453109	CC	TT	1946723701
SNP_P4_3606_5453110	NC_021160.1	Ca_kabuli_chr01	5453110	AA	TT	1946723703
SNP_P4_3607_5453487	NC_021160.1	Ca_kabuli_chr01	5453487	CC	GG	1946723705
SNP_P4_3608_5453500	NC_021160.1	Ca_kabuli_chr01	5453500	TT	CC	1946723707
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SNP_P4_3616_5457904	NC_021160.1	Ca_kabuli_chr01	5457904	AA	TT	1946723718
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SNP_P4_3618_5457941	NC_021160.1	Ca_kabuli_chr01	5457941	CC	AA	1946723722
SNP_P4_3619_5460714	NC_021160.1	Ca_kabuli_chr01	5460714	CC	TT	1946723724
SNP_P4_3620_5460745	NC_021160.1	Ca_kabuli_chr01	5460745	GG	TT	1946723726
SNP_P4_3621_5463849	NC_021160.1	Ca_kabuli_chr01	5463849	CC	GG	1946723728
SNP_P4_3622_5463854	NC_021160.1	Ca_kabuli_chr01	5463854	AA	GG	1946723730
SNP_P4_3623_5463941	NC_021160.1	Ca_kabuli_chr01	5463941	GG	AA	1946723732
SNP_P4_3624_5463980	NC_021160.1	Ca_kabuli_chr01	5463980	TT	AA	1946723734
SNP_P4_3625_5464054	NC_021160.1	Ca_kabuli_chr01	5464054	TT	CC	1946723736
SNP_P4_3626_5464062	NC_021160.1	Ca_kabuli_chr01	5464062	CC	TT	1946723738
SNP_P4_3627_5464133	NC_021160.1	Ca_kabuli_chr01	5464133	TT	CC	1946723740
SNP_P4_3628_5464161	NC_021160.1	Ca_kabuli_chr01	5464161	TT	GG	1946723741
SNP_P4_3629_5464228	NC_021160.1	Ca_kabuli_chr01	5464228	CC	TT	1946723743
SNP_P4_3631_5464264	NC_021160.1	Ca_kabuli_chr01	5464264	TT	CC	1946723745
SNP_P4_3632_5464267	NC_021160.1	Ca_kabuli_chr01	5464267	AA	GG	1946723747
SNP_P4_3633_5464274	NC_021160.1	Ca_kabuli_chr01	5464274	CC	TT	1946723749

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_3635_5464360	NC_021160.1	Ca_kabuli_chr01	5464360	GG	CC	1946723753
SNP_P4_3636_5464393	NC_021160.1	Ca_kabuli_chr01	5464393	CC	TT	1946723755
SNP_P4_3637_5464407	NC_021160.1	Ca_kabuli_chr01	5464407	AA	GG	1946723757
SNP_P4_3638_5469360	NC_021160.1	Ca_kabuli_chr01	5469360	GG	AA	1946723759
SNP_P4_3639_5469381	NC_021160.1	Ca_kabuli_chr01	5469381	GG	AA	1946723761
SNP_P4_3640_5469410	NC_021160.1	Ca_kabuli_chr01	5469410	AA	GG	1946723763
SNP_P4_3641_5472777	NC_021160.1	Ca_kabuli_chr01	5472777	TT	CC	1946723765
SNP_P4_3642_5472822	NC_021160.1	Ca_kabuli_chr01	5472822	CC	GG	1946723767
SNP_P4_3643_5476384	NC_021160.1	Ca_kabuli_chr01	5476384	AA	GG	1946723769
SNP_P4_3644_5480029	NC_021160.1	Ca_kabuli_chr01	5480029	TT	GG	1946723771
SNP_P4_3645_5481831	NC_021160.1	Ca_kabuli_chr01	5481831	GG	AA	1946723773
SNP_P4_3646_5482284	NC_021160.1	Ca_kabuli_chr01	5482284	GG	AA	1946723775
SNP_P4_3648_5482991	NC_021160.1	Ca_kabuli_chr01	5482991	CC	AA	1946723777
SNP_P4_3649_5483040	NC_021160.1	Ca_kabuli_chr01	5483040	GG	AA	1946723779
SNP_P4_3650_5484034	NC_021160.1	Ca_kabuli_chr01	5484034	AA	GG	1946723781
SNP_P4_3651_5484248	NC_021160.1	Ca_kabuli_chr01	5484248	TT	CC	1946723782
SNP_P4_3653_5485340	NC_021160.1	Ca_kabuli_chr01	5485340	AA	TT	1946723784
SNP_P4_3654_5487434	NC_021160.1	Ca_kabuli_chr01	5487434	GG	AA	1946723786
SNP_P4_3655_5487759	NC_021160.1	Ca_kabuli_chr01	5487759	CC	TT	1946723788
SNP_P4_3656_5488698	NC_021160.1	Ca_kabuli_chr01	5488698	GG	AA	1946723790
SNP_P4_3657_5493831	NC_021160.1	Ca_kabuli_chr01	5493831	TT	AA	1946723792
SNP_P4_3659_5498404	NC_021160.1	Ca_kabuli_chr01	5498404	AA	TT	1946723794
SNP_P4_3660_5498559	NC_021160.1	Ca_kabuli_chr01	5498559	GG	AA	1946723796
SNP_P4_3662_5498986	NC_021160.1	Ca_kabuli_chr01	5498986	GG	TT	1946723798
SNP_P4_3663_5500258	NC_021160.1	Ca_kabuli_chr01	5500258	CC	TT	1946723800
SNP_P4_3665_5500953	NC_021160.1	Ca_kabuli_chr01	5500953	CC	GG	1946723802
SNP_P4_3666_5500993	NC_021160.1	Ca_kabuli_chr01	5500993	CC	TT	1946723804
SNP_P4_3667_5501814	NC_021160.1	Ca_kabuli_chr01	5501814	CC	TT	1946723806
SNP_P4_3668_5502442	NC_021160.1	Ca_kabuli_chr01	5502442	AA	GG	1946723808
SNP_P4_3669_5508786	NC_021160.1	Ca_kabuli_chr01	5508786	TT	CC	1946723810
SNP_P4_3670_5508889	NC_021160.1	Ca_kabuli_chr01	5508889	TT	CC	1946723812
SNP_P4_3671_5508980	NC_021160.1	Ca_kabuli_chr01	5508980	AA	TT	1946723814
SNP_P4_3672_5509752	NC_021160.1	Ca_kabuli_chr01	5509752	AA	GG	1946723816
SNP_P4_3673_5511614	NC_021160.1	Ca_kabuli_chr01	5511614	CC	TT	1946723818
SNP_P4_3674_5511919	NC_021160.1	Ca_kabuli_chr01	5511919	CC	TT	1946723820
SNP_P4_3675_5511968	NC_021160.1	Ca_kabuli_chr01	5511968	AA	CC	1946723822
SNP_P4_3676_5513214	NC_021160.1	Ca_kabuli_chr01	5513214	GG	AA	1946723824
SNP_P4_3677_5513292	NC_021160.1	Ca_kabuli_chr01	5513292	CC	TT	1946723826
SNP_P4_3678_5514122	NC_021160.1	Ca_kabuli_chr01	5514122	CC	TT	1946723828
SNP_P4_3679_5515026	NC_021160.1	Ca_kabuli_chr01	5515026	TT	CC	1946723830
SNP_P4_3680_5516843	NC_021160.1	Ca_kabuli_chr01	5516843	TT	AA	1946723832

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_3682_5518134	NC_021160.1	Ca_kabuli_chr01	5518134	AA	CC	1946723836
SNP_P4_3683_5519577	NC_021160.1	Ca_kabuli_chr01	5519577	CC	TT	1946723838
SNP_P4_3684_5519675	NC_021160.1	Ca_kabuli_chr01	5519675	AA	TT	1946723840
SNP_P4_3685_5520179	NC_021160.1	Ca_kabuli_chr01	5520179	TT	CC	1946723842
SNP_P4_3686_5520448	NC_021160.1	Ca_kabuli_chr01	5520448	CC	TT	1946723844
SNP_P4_3687_5520460	NC_021160.1	Ca_kabuli_chr01	5520460	CC	AA	1946723846
SNP_P4_3688_5520478	NC_021160.1	Ca_kabuli_chr01	5520478	CC	TT	1946723848
SNP_P4_3689_5520618	NC_021160.1	Ca_kabuli_chr01	5520618	TT	CC	1946723850
SNP_P4_3690_5520765	NC_021160.1	Ca_kabuli_chr01	5520765	CC	TT	1946723852
SNP_P4_3691_5520830	NC_021160.1	Ca_kabuli_chr01	5520830	TT	AA	1946723854
SNP_P4_3692_5520934	NC_021160.1	Ca_kabuli_chr01	5520934	TT	CC	1946723856
SNP_P4_3693_5530610	NC_021160.1	Ca_kabuli_chr01	5530610	AA	CC	1946723858
SNP_P4_3694_5530639	NC_021160.1	Ca_kabuli_chr01	5530639	CC	GG	1946723860
SNP_P4_3696_5544156	NC_021160.1	Ca_kabuli_chr01	5544156	GG	AA	1946723862
SNP_P4_3697_5559703	NC_021160.1	Ca_kabuli_chr01	5559703	TT	CC	1946723864
SNP_P4_3698_5571755	NC_021160.1	Ca_kabuli_chr01	5571755	AA	GG	1946723866
SNP_P4_3699_5588858	NC_021160.1	Ca_kabuli_chr01	5588858	CC	GG	1946723868
SNP_P4_3700_5598597	NC_021160.1	Ca_kabuli_chr01	5598597	CC	GG	1946723870
SNP_P4_3701_5618859	NC_021160.1	Ca_kabuli_chr01	5618859	AA	CC	1946723872
SNP_P4_3702_5664260	NC_021160.1	Ca_kabuli_chr01	5664260	GG	CC	1946723874
SNP_P4_3703_5676437	NC_021160.1	Ca_kabuli_chr01	5676437	GG	TT	1946723876
SNP_P4_3704_5677519	NC_021160.1	Ca_kabuli_chr01	5677519	CC	TT	1946723878
SNP_P4_3705_5741451	NC_021160.1	Ca_kabuli_chr01	5741451	TT	CC	1946723880
SNP_P4_3706_5743745	NC_021160.1	Ca_kabuli_chr01	5743745	AA	TT	1946723882
SNP_P4_3707_5786698	NC_021160.1	Ca_kabuli_chr01	5786698	AA	TT	1946723884
SNP_P4_3708_5793534	NC_021160.1	Ca_kabuli_chr01	5793534	CC	TT	1946723886
SNP_P4_3709_5793912	NC_021160.1	Ca_kabuli_chr01	5793912	GG	CC	1946723888
SNP_P4_3710_5794717	NC_021160.1	Ca_kabuli_chr01	5794717	CC	TT	1946723890
SNP_P4_3711_5803260	NC_021160.1	Ca_kabuli_chr01	5803260	GG	AA	1946723892
SNP_P4_3712_5803429	NC_021160.1	Ca_kabuli_chr01	5803429	TT	AA	1946723894
SNP_P4_3713_5803435	NC_021160.1	Ca_kabuli_chr01	5803435	AA	CC	1946723896
SNP_P4_3715_5803850	NC_021160.1	Ca_kabuli_chr01	5803850	GG	AA	1946723898
SNP_P4_3716_5804028	NC_021160.1	Ca_kabuli_chr01	5804028	GG	AA	1946723900
SNP_P4_3718_5804227	NC_021160.1	Ca_kabuli_chr01	5804227	GG	AA	1946723902
SNP_P4_3719_5804381	NC_021160.1	Ca_kabuli_chr01	5804381	TT	AA	1946723904
SNP_P4_3720_5819238	NC_021160.1	Ca_kabuli_chr01	5819238	AA	TT	1946723906
SNP_P4_3721_5819239	NC_021160.1	Ca_kabuli_chr01	5819239	TT	CC	1946723908
SNP_P4_3722_5821799	NC_021160.1	Ca_kabuli_chr01	5821799	GG	AA	1946723910
SNP_P4_3723_5851277	NC_021160.1	Ca_kabuli_chr01	5851277	CC	TT	1946723912
SNP_P4_3726_5897722	NC_021160.1	Ca_kabuli_chr01	5897722	TT	CC	1946723914
SNP_P4_3727_5897738	NC_021160.1	Ca_kabuli_chr01	5897738	GG	TT	1946723916

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_3729_5929653	NC_021160.1	Ca_kabuli_chr01	5929653	CC	TT	1946723920
SNP_P4_3730_5929654	NC_021160.1	Ca_kabuli_chr01	5929654	CC	TT	1946723922
SNP_P4_3731_5941313	NC_021160.1	Ca_kabuli_chr01	5941313	GG	AA	1946723924
SNP_P4_3732_5947623	NC_021160.1	Ca_kabuli_chr01	5947623	AA	GG	1946723926
SNP_P4_3734_5960997	NC_021160.1	Ca_kabuli_chr01	5960997	AA	GG	1946723928
SNP_P4_3735_5960998	NC_021160.1	Ca_kabuli_chr01	5960998	TT	AA	1946723930
SNP_P4_3736_5965904	NC_021160.1	Ca_kabuli_chr01	5965904	TT	GG	1946723932
SNP_P4_3737_5977977	NC_021160.1	Ca_kabuli_chr01	5977977	TT	CC	1946723934
SNP_P4_3738_5986521	NC_021160.1	Ca_kabuli_chr01	5986521	AA	TT	1946723936
SNP_P4_3739_5986743	NC_021160.1	Ca_kabuli_chr01	5986743	GG	AA	1946723938
SNP_P4_3740_5986798	NC_021160.1	Ca_kabuli_chr01	5986798	AA	GG	1946723940
SNP_P4_3743_6072357	NC_021160.1	Ca_kabuli_chr01	6072357	AA	TT	1946723942
SNP_P4_3744_6072384	NC_021160.1	Ca_kabuli_chr01	6072384	GG	AA	1946723944
SNP_P4_3745_6072387	NC_021160.1	Ca_kabuli_chr01	6072387	CC	TT	1946723946
SNP_P4_3746_6073037	NC_021160.1	Ca_kabuli_chr01	6073037	CC	TT	1946723948
SNP_P4_3747_6079193	NC_021160.1	Ca_kabuli_chr01	6079193	AA	GG	1946723950
SNP_P4_3748_6106211	NC_021160.1	Ca_kabuli_chr01	6106211	CC	TT	1946723952
SNP_P4_3749_6106227	NC_021160.1	Ca_kabuli_chr01	6106227	AA	GG	1946723954
SNP_P4_3750_6106315	NC_021160.1	Ca_kabuli_chr01	6106315	CC	TT	1946723956
SNP_P4_3751_6106328	NC_021160.1	Ca_kabuli_chr01	6106328	TT	CC	1946723958
SNP_P4_3752_6106338	NC_021160.1	Ca_kabuli_chr01	6106338	AA	TT	1946723960
SNP_P4_3753_6106339	NC_021160.1	Ca_kabuli_chr01	6106339	GG	CC	1946723962
SNP_P4_3754_6106351	NC_021160.1	Ca_kabuli_chr01	6106351	AA	TT	1946723964
SNP_P4_3755_6106470	NC_021160.1	Ca_kabuli_chr01	6106470	TT	CC	1946723966
SNP_P4_3756_6106533	NC_021160.1	Ca_kabuli_chr01	6106533	TT	CC	1946723968
SNP_P4_3757_6106563	NC_021160.1	Ca_kabuli_chr01	6106563	TT	GG	1946723970
SNP_P4_3758_6106564	NC_021160.1	Ca_kabuli_chr01	6106564	AA	GG	1946723972
SNP_P4_3759_6108839	NC_021160.1	Ca_kabuli_chr01	6108839	AA	TT	1946723975
SNP_P4_3760_6108840	NC_021160.1	Ca_kabuli_chr01	6108840	CC	AA	1946723976
SNP_P4_3761_6110318	NC_021160.1	Ca_kabuli_chr01	6110318	CC	TT	1946723978
SNP_P4_3762_6110578	NC_021160.1	Ca_kabuli_chr01	6110578	TT	GG	1946723980
SNP_P4_3763_6121023	NC_021160.1	Ca_kabuli_chr01	6121023	AA	GG	1946723982
SNP_P4_3764_6123387	NC_021160.1	Ca_kabuli_chr01	6123387	GG	AA	1946723985
SNP_P4_3765_6123408	NC_021160.1	Ca_kabuli_chr01	6123408	TT	CC	1946723987
SNP_P4_3766_6124326	NC_021160.1	Ca_kabuli_chr01	6124326	GG	AA	1946723989
SNP_P4_3767_6124329	NC_021160.1	Ca_kabuli_chr01	6124329	AA	GG	1946723991
SNP_P4_3768_6126128	NC_021160.1	Ca_kabuli_chr01	6126128	TT	CC	1946723993
SNP_P4_3769_6126129	NC_021160.1	Ca_kabuli_chr01	6126129	GG	AA	1946723995
SNP_P4_3770_6128144	NC_021160.1	Ca_kabuli_chr01	6128144	CC	TT	1946723997
SNP_P4_3771_6128160	NC_021160.1	Ca_kabuli_chr01	6128160	TT	CC	1946723999
SNP_P4_3772_6128213	NC_021160.1	Ca_kabuli_chr01	6128213	TT	CC	1946724001

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_3775_6129198	NC_021160.1	Ca_kabuli_chr01	6129198	CC	TT	1946724005
SNP_P4_3776_6129253	NC_021160.1	Ca_kabuli_chr01	6129253	GG	AA	1946724007
SNP_P4_3777_6129408	NC_021160.1	Ca_kabuli_chr01	6129408	GG	AA	1946724009
SNP_P4_3778_6129419	NC_021160.1	Ca_kabuli_chr01	6129419	CC	TT	1946724010
SNP_P4_3779_6129458	NC_021160.1	Ca_kabuli_chr01	6129458	CC	TT	1946724012
SNP_P4_3780_6129476	NC_021160.1	Ca_kabuli_chr01	6129476	AA	GG	1946724014
SNP_P4_3781_6129563	NC_021160.1	Ca_kabuli_chr01	6129563	AA	TT	1946724016
SNP_P4_3782_6129585	NC_021160.1	Ca_kabuli_chr01	6129585	AA	CC	1946724018
SNP_P4_3783_6129787	NC_021160.1	Ca_kabuli_chr01	6129787	GG	AA	1946724020
SNP_P4_3784_6129802	NC_021160.1	Ca_kabuli_chr01	6129802	TT	CC	1946724022
SNP_P4_3786_6130939	NC_021160.1	Ca_kabuli_chr01	6130939	AA	GG	1946724024
SNP_P4_3787_6131261	NC_021160.1	Ca_kabuli_chr01	6131261	CC	TT	1946724026
SNP_P4_3788_6132629	NC_021160.1	Ca_kabuli_chr01	6132629	GG	AA	1946724028
SNP_P4_3789_6133452	NC_021160.1	Ca_kabuli_chr01	6133452	TT	GG	1946724030
SNP_P4_3790_6133482	NC_021160.1	Ca_kabuli_chr01	6133482	TT	GG	1946724032
SNP_P4_3791_6133501	NC_021160.1	Ca_kabuli_chr01	6133501	TT	CC	1946724034
SNP_P4_3792_6133508	NC_021160.1	Ca_kabuli_chr01	6133508	TT	CC	1946724036
SNP_P4_3793_6133695	NC_021160.1	Ca_kabuli_chr01	6133695	GG	TT	1946724038
SNP_P4_3794_6133725	NC_021160.1	Ca_kabuli_chr01	6133725	AA	GG	1946724040
SNP_P4_3795_6133730	NC_021160.1	Ca_kabuli_chr01	6133730	AA	TT	1946724042
SNP_P4_3796_6133867	NC_021160.1	Ca_kabuli_chr01	6133867	AA	TT	1946724044
SNP_P4_3797_6134048	NC_021160.1	Ca_kabuli_chr01	6134048	AA	GG	1946724046
SNP_P4_3799_6135289	NC_021160.1	Ca_kabuli_chr01	6135289	AA	GG	1946724047
SNP_P4_3800_6136601	NC_021160.1	Ca_kabuli_chr01	6136601	AA	CC	1946724049
SNP_P4_3801_6136617	NC_021160.1	Ca_kabuli_chr01	6136617	AA	GG	1946724051
SNP_P4_3802_6136858	NC_021160.1	Ca_kabuli_chr01	6136858	CC	GG	1946724053
SNP_P4_3803_6137892	NC_021160.1	Ca_kabuli_chr01	6137892	TT	CC	1946724055
SNP_P4_3804_6137930	NC_021160.1	Ca_kabuli_chr01	6137930	CC	TT	1946724057
SNP_P4_3805_6137964	NC_021160.1	Ca_kabuli_chr01	6137964	GG	TT	1946724059
SNP_P4_3806_6137970	NC_021160.1	Ca_kabuli_chr01	6137970	TT	CC	1946724061
SNP_P4_3807_6138019	NC_021160.1	Ca_kabuli_chr01	6138019	TT	CC	1946724063
SNP_P4_3808_6138159	NC_021160.1	Ca_kabuli_chr01	6138159	AA	GG	1946724065
SNP_P4_3809_6138175	NC_021160.1	Ca_kabuli_chr01	6138175	TT	CC	1946724067
SNP_P4_3810_6138210	NC_021160.1	Ca_kabuli_chr01	6138210	CC	TT	1946724069
SNP_P4_3811_6138250	NC_021160.1	Ca_kabuli_chr01	6138250	GG	AA	1946724071
SNP_P4_3813_6138366	NC_021160.1	Ca_kabuli_chr01	6138366	AA	TT	1946724072
SNP_P4_3814_6138442	NC_021160.1	Ca_kabuli_chr01	6138442	GG	AA	1946724074
SNP_P4_3815_6138460	NC_021160.1	Ca_kabuli_chr01	6138460	CC	AA	1946724076
SNP_P4_3816_6138484	NC_021160.1	Ca_kabuli_chr01	6138484	AA	GG	1946724078
SNP_P4_3817_6138510	NC_021160.1	Ca_kabuli_chr01	6138510	GG	TT	1946724080
SNP_P4_3818_6138537	NC_021160.1	Ca_kabuli_chr01	6138537	TT	CC	1946724082

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_3820_6138857	NC_021160.1	Ca_kabuli_chr01	6138857	CC	TT	1946724086
SNP_P4_3821_6141833	NC_021160.1	Ca_kabuli_chr01	6141833	CC	GG	1946724088
SNP_P4_3822_6141938	NC_021160.1	Ca_kabuli_chr01	6141938	AA	TT	1946724090
SNP_P4_3823_6141952	NC_021160.1	Ca_kabuli_chr01	6141952	CC	TT	1946724092
SNP_P4_3824_6142386	NC_021160.1	Ca_kabuli_chr01	6142386	TT	GG	1946724094
SNP_P4_3825_6143940	NC_021160.1	Ca_kabuli_chr01	6143940	CC	AA	1946724096
SNP_P4_3826_6145607	NC_021160.1	Ca_kabuli_chr01	6145607	TT	CC	1946724098
SNP_P4_3827_6147792	NC_021160.1	Ca_kabuli_chr01	6147792	AA	TT	1946724100
SNP_P4_3828_6147805	NC_021160.1	Ca_kabuli_chr01	6147805	AA	CC	1946724102
SNP_P4_3829_6147828	NC_021160.1	Ca_kabuli_chr01	6147828	TT	GG	1946724104
SNP_P4_3830_6147837	NC_021160.1	Ca_kabuli_chr01	6147837	GG	TT	1946724106
SNP_P4_3832_6148366	NC_021160.1	Ca_kabuli_chr01	6148366	GG	AA	1946724108
SNP_P4_3833_6148922	NC_021160.1	Ca_kabuli_chr01	6148922	GG	AA	1946724110
SNP_P4_3834_6148961	NC_021160.1	Ca_kabuli_chr01	6148961	TT	CC	1946724112
SNP_P4_3836_6149516	NC_021160.1	Ca_kabuli_chr01	6149516	GG	CC	1946724114
SNP_P4_3837_6149576	NC_021160.1	Ca_kabuli_chr01	6149576	TT	CC	1946724115
SNP_P4_3838_6149652	NC_021160.1	Ca_kabuli_chr01	6149652	CC	AA	1946724117
SNP_P4_3839_6150034	NC_021160.1	Ca_kabuli_chr01	6150034	TT	CC	1946724119
SNP_P4_3840_6150056	NC_021160.1	Ca_kabuli_chr01	6150056	TT	CC	1946724121
SNP_P4_3841_6150161	NC_021160.1	Ca_kabuli_chr01	6150161	TT	CC	1946724123
SNP_P4_3842_6151269	NC_021160.1	Ca_kabuli_chr01	6151269	AA	CC	1946724125
SNP_P4_3843_6151625	NC_021160.1	Ca_kabuli_chr01	6151625	GG	TT	1946724127
SNP_P4_3844_6154062	NC_021160.1	Ca_kabuli_chr01	6154062	CC	TT	1946724129
SNP_P4_3845_6154066	NC_021160.1	Ca_kabuli_chr01	6154066	CC	TT	1946724131
SNP_P4_3846_6154168	NC_021160.1	Ca_kabuli_chr01	6154168	CC	TT	1946724133
SNP_P4_3847_6157493	NC_021160.1	Ca_kabuli_chr01	6157493	GG	AA	1946724135
SNP_P4_3848_6157514	NC_021160.1	Ca_kabuli_chr01	6157514	AA	GG	1946724137
SNP_P4_3849_6157531	NC_021160.1	Ca_kabuli_chr01	6157531	CC	TT	1946724139
SNP_P4_3850_6157538	NC_021160.1	Ca_kabuli_chr01	6157538	GG	AA	1946724141
SNP_P4_3851_6157544	NC_021160.1	Ca_kabuli_chr01	6157544	AA	GG	1946724143
SNP_P4_3852_6157565	NC_021160.1	Ca_kabuli_chr01	6157565	GG	AA	1946724145
SNP_P4_3853_6157583	NC_021160.1	Ca_kabuli_chr01	6157583	TT	CC	1946724147
SNP_P4_3857_6158461	NC_021160.1	Ca_kabuli_chr01	6158461	CC	AA	1946724149
SNP_P4_3858_6158601	NC_021160.1	Ca_kabuli_chr01	6158601	TT	CC	1946724151
SNP_P4_3859_6158602	NC_021160.1	Ca_kabuli_chr01	6158602	CC	TT	1946724153
SNP_P4_3860_6158780	NC_021160.1	Ca_kabuli_chr01	6158780	GG	AA	1946724155
SNP_P4_3861_6159040	NC_021160.1	Ca_kabuli_chr01	6159040	GG	AA	1946724157
SNP_P4_3862_6159045	NC_021160.1	Ca_kabuli_chr01	6159045	AA	GG	1946724159
SNP_P4_3863_6159049	NC_021160.1	Ca_kabuli_chr01	6159049	TT	CC	1946724161
SNP_P4_3864_6159335	NC_021160.1	Ca_kabuli_chr01	6159335	GG	AA	1946724163
SNP_P4_3865_6160664	NC_021160.1	Ca_kabuli_chr01	6160664	TT	CC	1946724165

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_3867_6161970	NC_021160.1	Ca_kabuli_chr01	6161970	GG	AA	1946724169
SNP_P4_3868_6161973	NC_021160.1	Ca_kabuli_chr01	6161973	TT	CC	1946724171
SNP_P4_3869_6161983	NC_021160.1	Ca_kabuli_chr01	6161983	CC	TT	1946724173
SNP_P4_3872_6167788	NC_021160.1	Ca_kabuli_chr01	6167788	TT	AA	1946724175
SNP_P4_3873_6167793	NC_021160.1	Ca_kabuli_chr01	6167793	AA	TT	1946724177
SNP_P4_3874_6167799	NC_021160.1	Ca_kabuli_chr01	6167799	CC	TT	1946724179
SNP_P4_3875_6168251	NC_021160.1	Ca_kabuli_chr01	6168251	CC	TT	1946724181
SNP_P4_3876_6171141	NC_021160.1	Ca_kabuli_chr01	6171141	TT	GG	1946724183
SNP_P4_3877_6173871	NC_021160.1	Ca_kabuli_chr01	6173871	AA	GG	1946724185
SNP_P4_3878_6174296	NC_021160.1	Ca_kabuli_chr01	6174296	TT	AA	1946724187
SNP_P4_3879_6174575	NC_021160.1	Ca_kabuli_chr01	6174575	GG	CC	1946724189
SNP_P4_3880_6176562	NC_021160.1	Ca_kabuli_chr01	6176562	GG	AA	1946724191
SNP_P4_3881_6176898	NC_021160.1	Ca_kabuli_chr01	6176898	CC	TT	1946724193
SNP_P4_3882_6176916	NC_021160.1	Ca_kabuli_chr01	6176916	CC	TT	1946724195
SNP_P4_3883_6177486	NC_021160.1	Ca_kabuli_chr01	6177486	CC	AA	1946724197
SNP_P4_3884_6178055	NC_021160.1	Ca_kabuli_chr01	6178055	CC	TT	1946724199
SNP_P4_3886_6190645	NC_021160.1	Ca_kabuli_chr01	6190645	CC	AA	1946724201
SNP_P4_3887_6190712	NC_021160.1	Ca_kabuli_chr01	6190712	AA	CC	1946724203
SNP_P4_3888_6193249	NC_021160.1	Ca_kabuli_chr01	6193249	GG	AA	1946724205
SNP_P4_3889_6193698	NC_021160.1	Ca_kabuli_chr01	6193698	AA	GG	1946724207
SNP_P4_3890_6193716	NC_021160.1	Ca_kabuli_chr01	6193716	GG	AA	1946724208
SNP_P4_3891_6201310	NC_021160.1	Ca_kabuli_chr01	6201310	TT	CC	1946724210
SNP_P4_3892_6201354	NC_021160.1	Ca_kabuli_chr01	6201354	AA	GG	1946724212
SNP_P4_3893_6201697	NC_021160.1	Ca_kabuli_chr01	6201697	GG	AA	1946724214
SNP_P4_3894_6201917	NC_021160.1	Ca_kabuli_chr01	6201917	TT	CC	1946724216
SNP_P4_3895_6201992	NC_021160.1	Ca_kabuli_chr01	6201992	AA	TT	1946724218
SNP_P4_3896_6201998	NC_021160.1	Ca_kabuli_chr01	6201998	CC	AA	1946724220
SNP_P4_3897_6202237	NC_021160.1	Ca_kabuli_chr01	6202237	GG	AA	1946724222
SNP_P4_3898_6202279	NC_021160.1	Ca_kabuli_chr01	6202279	GG	CC	1946724224
SNP_P4_3900_6202766	NC_021160.1	Ca_kabuli_chr01	6202766	TT	AA	1946724225
SNP_P4_3902_6205079	NC_021160.1	Ca_kabuli_chr01	6205079	AA	GG	1946724227
SNP_P4_3904_6205421	NC_021160.1	Ca_kabuli_chr01	6205421	AA	GG	1946724229
SNP_P4_3905_6205506	NC_021160.1	Ca_kabuli_chr01	6205506	CC	TT	1946724231
SNP_P4_3906_6205630	NC_021160.1	Ca_kabuli_chr01	6205630	GG	AA	1946724233
SNP_P4_3907_6206101	NC_021160.1	Ca_kabuli_chr01	6206101	GG	TT	1946724235
SNP_P4_3908_6206224	NC_021160.1	Ca_kabuli_chr01	6206224	AA	GG	1946724236
SNP_P4_3909_6206426	NC_021160.1	Ca_kabuli_chr01	6206426	CC	TT	1946724237
SNP_P4_3910_6206449	NC_021160.1	Ca_kabuli_chr01	6206449	CC	TT	1946724238
SNP_P4_3911_6206458	NC_021160.1	Ca_kabuli_chr01	6206458	GG	AA	1946724239
SNP_P4_3912_6206465	NC_021160.1	Ca_kabuli_chr01	6206465	CC	TT	1946724240
SNP_P4_3913_6206495	NC_021160.1	Ca_kabuli_chr01	6206495	TT	CC	1946724242

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_3915_6216123	NC_021160.1	Ca_kabuli_chr01	6216123	CC	TT	1946724246
SNP_P4_3916_6216673	NC_021160.1	Ca_kabuli_chr01	6216673	TT	CC	1946724248
SNP_P4_3918_6216705	NC_021160.1	Ca_kabuli_chr01	6216705	TT	CC	1946724250
SNP_P4_3919_6216746	NC_021160.1	Ca_kabuli_chr01	6216746	GG	TT	1946724252
SNP_P4_3920_6221323	NC_021160.1	Ca_kabuli_chr01	6221323	AA	CC	1946724254
SNP_P4_3921_6221595	NC_021160.1	Ca_kabuli_chr01	6221595	CC	TT	1946724256
SNP_P4_3922_6222208	NC_021160.1	Ca_kabuli_chr01	6222208	GG	AA	1946724258
SNP_P4_3923_6222935	NC_021160.1	Ca_kabuli_chr01	6222935	TT	AA	1946724260
SNP_P4_3924_6223606	NC_021160.1	Ca_kabuli_chr01	6223606	AA	TT	1946724262
SNP_P4_3925_6225563	NC_021160.1	Ca_kabuli_chr01	6225563	TT	CC	1946724264
SNP_P4_3926_6226165	NC_021160.1	Ca_kabuli_chr01	6226165	CC	GG	1946724267
SNP_P4_3927_6232085	NC_021160.1	Ca_kabuli_chr01	6232085	AA	GG	1946724269
SNP_P4_3928_6232110	NC_021160.1	Ca_kabuli_chr01	6232110	AA	GG	1946724271
SNP_P4_3930_6234534	NC_021160.1	Ca_kabuli_chr01	6234534	GG	CC	1946724273
SNP_P4_3931_6255112	NC_021160.1	Ca_kabuli_chr01	6255112	AA	TT	1946724275
SNP_P4_3932_6255346	NC_021160.1	Ca_kabuli_chr01	6255346	TT	CC	1946724277
SNP_P4_3933_6255856	NC_021160.1	Ca_kabuli_chr01	6255856	TT	GG	1946724279
SNP_P4_3934_6255860	NC_021160.1	Ca_kabuli_chr01	6255860	AA	CC	1946724281
SNP_P4_3935_6257359	NC_021160.1	Ca_kabuli_chr01	6257359	AA	GG	1946724283
SNP_P4_3936_6259419	NC_021160.1	Ca_kabuli_chr01	6259419	GG	TT	1946724285
SNP_P4_3937_6260670	NC_021160.1	Ca_kabuli_chr01	6260670	GG	AA	1946724287
SNP_P4_3938_6260713	NC_021160.1	Ca_kabuli_chr01	6260713	GG	AA	1946724289
SNP_P4_3939_6260734	NC_021160.1	Ca_kabuli_chr01	6260734	CC	TT	1946724291
SNP_P4_3940_6262529	NC_021160.1	Ca_kabuli_chr01	6262529	TT	GG	1946724293
SNP_P4_3941_6263170	NC_021160.1	Ca_kabuli_chr01	6263170	CC	AA	1946724295
SNP_P4_3942_6265122	NC_021160.1	Ca_kabuli_chr01	6265122	GG	AA	1946724297
SNP_P4_3944_6267669	NC_021160.1	Ca_kabuli_chr01	6267669	AA	GG	1946724299
SNP_P4_3946_6267711	NC_021160.1	Ca_kabuli_chr01	6267711	AA	GG	1946724301
SNP_P4_3947_6267722	NC_021160.1	Ca_kabuli_chr01	6267722	AA	GG	1946724303
SNP_P4_3948_6268503	NC_021160.1	Ca_kabuli_chr01	6268503	AA	TT	1946724305
SNP_P4_3949_6268514	NC_021160.1	Ca_kabuli_chr01	6268514	TT	CC	1946724307
SNP_P4_3950_6268519	NC_021160.1	Ca_kabuli_chr01	6268519	CC	TT	1946724309
SNP_P4_3951_6270501	NC_021160.1	Ca_kabuli_chr01	6270501	CC	TT	1946724311
SNP_P4_3952_6271265	NC_021160.1	Ca_kabuli_chr01	6271265	GG	AA	1946724313
SNP_P4_3953_6276219	NC_021160.1	Ca_kabuli_chr01	6276219	AA	CC	1946724315
SNP_P4_3954_6276782	NC_021160.1	Ca_kabuli_chr01	6276782	GG	AA	1946724317
SNP_P4_3955_6279440	NC_021160.1	Ca_kabuli_chr01	6279440	AA	GG	1946724319
SNP_P4_3956_6279445	NC_021160.1	Ca_kabuli_chr01	6279445	AA	TT	1946724321
SNP_P4_3957_6279503	NC_021160.1	Ca_kabuli_chr01	6279503	CC	GG	1946724323
SNP_P4_3959_6280109	NC_021160.1	Ca_kabuli_chr01	6280109	GG	TT	1946724325
SNP_P4_3960_6281101	NC_021160.1	Ca_kabuli_chr01	6281101	GG	AA	1946724327

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_3962_6281948	NC_021160.1	Ca_kabuli_chr01	6281948	TT	GG	1946724330
SNP_P4_3963_6282018	NC_021160.1	Ca_kabuli_chr01	6282018	AA	GG	1946724332
SNP_P4_3964_6282198	NC_021160.1	Ca_kabuli_chr01	6282198	CC	TT	1946724334
SNP_P4_3965_6282332	NC_021160.1	Ca_kabuli_chr01	6282332	TT	CC	1946724336
SNP_P4_3966_6282339	NC_021160.1	Ca_kabuli_chr01	6282339	GG	AA	1946724338
SNP_P4_3967_6282379	NC_021160.1	Ca_kabuli_chr01	6282379	TT	AA	1946724340
SNP_P4_3968_6282973	NC_021160.1	Ca_kabuli_chr01	6282973	AA	GG	1946724342
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SNP_P4_3970_6286190	NC_021160.1	Ca_kabuli_chr01	6286190	GG	AA	1946724346
SNP_P4_3971_6287076	NC_021160.1	Ca_kabuli_chr01	6287076	CC	AA	1946724348
SNP_P4_3972_6287176	NC_021160.1	Ca_kabuli_chr01	6287176	GG	TT	1946724351
SNP_P4_3973_6288048	NC_021160.1	Ca_kabuli_chr01	6288048	AA	GG	1946724353
SNP_P4_3974_6288062	NC_021160.1	Ca_kabuli_chr01	6288062	CC	TT	1946724355
SNP_P4_3975_6288614	NC_021160.1	Ca_kabuli_chr01	6288614	CC	GG	1946724357
SNP_P4_3976_6288893	NC_021160.1	Ca_kabuli_chr01	6288893	TT	AA	1946724359
SNP_P4_3977_6289556	NC_021160.1	Ca_kabuli_chr01	6289556	CC	TT	1946724361
SNP_P4_3978_6290278	NC_021160.1	Ca_kabuli_chr01	6290278	GG	AA	1946724363
SNP_P4_3979_6290613	NC_021160.1	Ca_kabuli_chr01	6290613	AA	GG	1946724365
SNP_P4_3980_6291369	NC_021160.1	Ca_kabuli_chr01	6291369	TT	GG	1946724367
SNP_P4_3981_6291381	NC_021160.1	Ca_kabuli_chr01	6291381	TT	CC	1946724369
SNP_P4_3982_6291480	NC_021160.1	Ca_kabuli_chr01	6291480	AA	GG	1946724371
SNP_P4_3983_6291650	NC_021160.1	Ca_kabuli_chr01	6291650	GG	CC	1946724373
SNP_P4_3984_6292693	NC_021160.1	Ca_kabuli_chr01	6292693	GG	AA	1946724375
SNP_P4_3985_6292856	NC_021160.1	Ca_kabuli_chr01	6292856	TT	AA	1946724377
SNP_P4_3986_6292859	NC_021160.1	Ca_kabuli_chr01	6292859	CC	AA	1946724379
SNP_P4_3987_6292894	NC_021160.1	Ca_kabuli_chr01	6292894	TT	CC	1946724381
SNP_P4_3988_6292898	NC_021160.1	Ca_kabuli_chr01	6292898	AA	GG	1946724383
SNP_P4_3989_6293000	NC_021160.1	Ca_kabuli_chr01	6293000	GG	AA	1946724385
SNP_P4_3991_6295108	NC_021160.1	Ca_kabuli_chr01	6295108	AA	CC	1946724387
SNP_P4_3992_6295970	NC_021160.1	Ca_kabuli_chr01	6295970	AA	TT	1946724389
SNP_P4_3993_6296082	NC_021160.1	Ca_kabuli_chr01	6296082	GG	AA	1946724391
SNP_P4_3994_6296083	NC_021160.1	Ca_kabuli_chr01	6296083	TT	AA	1946724393
SNP_P4_3995_6296124	NC_021160.1	Ca_kabuli_chr01	6296124	GG	TT	1946724395
SNP_P4_3996_6298006	NC_021160.1	Ca_kabuli_chr01	6298006	TT	CC	1946724397
SNP_P4_3997_6298028	NC_021160.1	Ca_kabuli_chr01	6298028	GG	TT	1946724399
SNP_P4_3998_6298099	NC_021160.1	Ca_kabuli_chr01	6298099	GG	AA	1946724401
SNP_P4_3999_6299231	NC_021160.1	Ca_kabuli_chr01	6299231	AA	GG	1946724403
SNP_P4_4000_6299234	NC_021160.1	Ca_kabuli_chr01	6299234	CC	TT	1946724405
SNP_P4_4001_6299236	NC_021160.1	Ca_kabuli_chr01	6299236	CC	TT	1946724407
SNP_P4_4002_6299237	NC_021160.1	Ca_kabuli_chr01	6299237	CC	TT	1946724409
SNP_P4_4003_6299258	NC_021160.1	Ca_kabuli_chr01	6299258	TT	CC	1946724411

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_4005_6299604	NC_021160.1	Ca_kabuli_chr01	6299604	GG	AA	1946724415
SNP_P4_4006_6299632	NC_021160.1	Ca_kabuli_chr01	6299632	TT	AA	1946724416
SNP_P4_4007_6299885	NC_021160.1	Ca_kabuli_chr01	6299885	TT	CC	1946724418
SNP_P4_4008_6299912	NC_021160.1	Ca_kabuli_chr01	6299912	TT	GG	1946724420
SNP_P4_4009_6300288	NC_021160.1	Ca_kabuli_chr01	6300288	AA	TT	1946724422
SNP_P4_4010_6300354	NC_021160.1	Ca_kabuli_chr01	6300354	AA	GG	1946724424
SNP_P4_4011_6300485	NC_021160.1	Ca_kabuli_chr01	6300485	GG	AA	1946724426
SNP_P4_4012_6302026	NC_021160.1	Ca_kabuli_chr01	6302026	CC	AA	1946724428
SNP_P4_4013_6302029	NC_021160.1	Ca_kabuli_chr01	6302029	CC	TT	1946724430
SNP_P4_4014_6302599	NC_021160.1	Ca_kabuli_chr01	6302599	TT	GG	1946724432
SNP_P4_4015_6303379	NC_021160.1	Ca_kabuli_chr01	6303379	CC	AA	1946724434
SNP_P4_4016_6303438	NC_021160.1	Ca_kabuli_chr01	6303438	AA	CC	1946724436
SNP_P4_4017_6303828	NC_021160.1	Ca_kabuli_chr01	6303828	CC	TT	1946724438
SNP_P4_4018_6304085	NC_021160.1	Ca_kabuli_chr01	6304085	AA	GG	1946724440
SNP_P4_4019_6304090	NC_021160.1	Ca_kabuli_chr01	6304090	GG	TT	1946724442
SNP_P4_4020_6304130	NC_021160.1	Ca_kabuli_chr01	6304130	TT	AA	1946724444
SNP_P4_4021_6304169	NC_021160.1	Ca_kabuli_chr01	6304169	CC	AA	1946724446
SNP_P4_4022_6304357	NC_021160.1	Ca_kabuli_chr01	6304357	TT	CC	1946724448
SNP_P4_4023_6304391	NC_021160.1	Ca_kabuli_chr01	6304391	GG	CC	1946724450
SNP_P4_4024_6304484	NC_021160.1	Ca_kabuli_chr01	6304484	TT	CC	1946724452
SNP_P4_4025_6304983	NC_021160.1	Ca_kabuli_chr01	6304983	CC	TT	1946724454
SNP_P4_4026_6305214	NC_021160.1	Ca_kabuli_chr01	6305214	CC	TT	1946724455
SNP_P4_4027_6305238	NC_021160.1	Ca_kabuli_chr01	6305238	TT	CC	1946724457
SNP_P4_4028_6305407	NC_021160.1	Ca_kabuli_chr01	6305407	CC	GG	1946724459
SNP_P4_4029_6305484	NC_021160.1	Ca_kabuli_chr01	6305484	TT	AA	1946724461
SNP_P4_4030_6305590	NC_021160.1	Ca_kabuli_chr01	6305590	CC	GG	1946724463
SNP_P4_4032_6306743	NC_021160.1	Ca_kabuli_chr01	6306743	TT	AA	1946724465
SNP_P4_4033_6306770	NC_021160.1	Ca_kabuli_chr01	6306770	AA	GG	1946724467
SNP_P4_4034_6306777	NC_021160.1	Ca_kabuli_chr01	6306777	CC	AA	1946724469
SNP_P4_4035_6306791	NC_021160.1	Ca_kabuli_chr01	6306791	TT	CC	1946724471
SNP_P4_4037_6307052	NC_021160.1	Ca_kabuli_chr01	6307052	CC	TT	1946724473
SNP_P4_4039_6311349	NC_021160.1	Ca_kabuli_chr01	6311349	AA	CC	1946724474
SNP_P4_4041_6313101	NC_021160.1	Ca_kabuli_chr01	6313101	AA	GG	1946724476
SNP_P4_4043_6313974	NC_021160.1	Ca_kabuli_chr01	6313974	AA	TT	1946724478
SNP_P4_4044_6313992	NC_021160.1	Ca_kabuli_chr01	6313992	TT	GG	1946724480
SNP_P4_4045_6319513	NC_021160.1	Ca_kabuli_chr01	6319513	GG	CC	1946724482
SNP_P4_4046_6322285	NC_021160.1	Ca_kabuli_chr01	6322285	CC	TT	1946724484
SNP_P4_4047_6323028	NC_021160.1	Ca_kabuli_chr01	6323028	GG	AA	1946724486
SNP_P4_4048_6323232	NC_021160.1	Ca_kabuli_chr01	6323232	CC	TT	1946724488
SNP_P4_4049_6323254	NC_021160.1	Ca_kabuli_chr01	6323254	CC	AA	1946724490
SNP_P4_4050_6323322	NC_021160.1	Ca_kabuli_chr01	6323322	GG	AA	1946724492

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_4051_6323326	NC_021160.1	Ca_kabuli_chr01	6323326	CC	TT	1946724494
SNP_P4_4052_6323337	NC_021160.1	Ca_kabuli_chr01	6323337	AA	TT	1946724496
SNP_P4_4053_6323348	NC_021160.1	Ca_kabuli_chr01	6323348	GG	AA	1946724498
SNP_P4_4054_6325436	NC_021160.1	Ca_kabuli_chr01	6325436	GG	AA	1946724500
SNP_P4_4055_6325472	NC_021160.1	Ca_kabuli_chr01	6325472	CC	TT	1946724502
SNP_P4_4056_6325497	NC_021160.1	Ca_kabuli_chr01	6325497	AA	GG	1946724504
SNP_P4_4057_6325530	NC_021160.1	Ca_kabuli_chr01	6325530	GG	TT	1946724506
SNP_P4_4058_6325540	NC_021160.1	Ca_kabuli_chr01	6325540	TT	GG	1946724508
SNP_P4_4059_6325554	NC_021160.1	Ca_kabuli_chr01	6325554	TT	GG	1946724510
SNP_P4_4060_6326344	NC_021160.1	Ca_kabuli_chr01	6326344	TT	AA	1946724512
SNP_P4_4061_6326345	NC_021160.1	Ca_kabuli_chr01	6326345	AA	TT	1946724514
SNP_P4_4062_6326437	NC_021160.1	Ca_kabuli_chr01	6326437	AA	TT	1946724516
SNP_P4_4063_6326459	NC_021160.1	Ca_kabuli_chr01	6326459	AA	GG	1946724518
SNP_P4_4064_6326496	NC_021160.1	Ca_kabuli_chr01	6326496	CC	TT	1946724520
SNP_P4_4065_6326617	NC_021160.1	Ca_kabuli_chr01	6326617	GG	AA	1946724522
SNP_P4_4066_6326674	NC_021160.1	Ca_kabuli_chr01	6326674	TT	CC	1946724524
SNP_P4_4067_6326757	NC_021160.1	Ca_kabuli_chr01	6326757	TT	CC	1946724526
SNP_P4_4068_6326887	NC_021160.1	Ca_kabuli_chr01	6326887	GG	AA	1946724528
SNP_P4_4069_6326898	NC_021160.1	Ca_kabuli_chr01	6326898	GG	AA	1946724530
SNP_P4_4070_6326931	NC_021160.1	Ca_kabuli_chr01	6326931	GG	TT	1946724532
SNP_P4_4071_6326934	NC_021160.1	Ca_kabuli_chr01	6326934	CC	TT	1946724534
SNP_P4_4072_6326962	NC_021160.1	Ca_kabuli_chr01	6326962	AA	GG	1946724536
SNP_P4_4073_6327709	NC_021160.1	Ca_kabuli_chr01	6327709	GG	TT	1946724537
SNP_P4_4074_6330278	NC_021160.1	Ca_kabuli_chr01	6330278	GG	TT	1946724539
SNP_P4_4075_6330316	NC_021160.1	Ca_kabuli_chr01	6330316	GG	AA	1946724541
SNP_P4_4076_6331188	NC_021160.1	Ca_kabuli_chr01	6331188	TT	CC	1946724543
SNP_P4_4078_6332807	NC_021160.1	Ca_kabuli_chr01	6332807	TT	AA	1946724545
SNP_P4_4079_6335087	NC_021160.1	Ca_kabuli_chr01	6335087	TT	CC	1946724547
SNP_P4_4080_6335143	NC_021160.1	Ca_kabuli_chr01	6335143	GG	AA	1946724549
SNP_P4_4081_6335408	NC_021160.1	Ca_kabuli_chr01	6335408	GG	AA	1946724551
SNP_P4_4082_6336477	NC_021160.1	Ca_kabuli_chr01	6336477	AA	GG	1946724553
SNP_P4_4083_6336516	NC_021160.1	Ca_kabuli_chr01	6336516	TT	CC	1946724555
SNP_P4_4084_6336548	NC_021160.1	Ca_kabuli_chr01	6336548	CC	AA	1946724557
SNP_P4_4085_6336550	NC_021160.1	Ca_kabuli_chr01	6336550	AA	GG	1946724559
SNP_P4_4086_6338638	NC_021160.1	Ca_kabuli_chr01	6338638	AA	CC	1946724561
SNP_P4_4088_6344682	NC_021160.1	Ca_kabuli_chr01	6344682	AA	GG	1946724563
SNP_P4_4089_6344950	NC_021160.1	Ca_kabuli_chr01	6344950	CC	GG	1946724565
SNP_P4_4091_6352294	NC_021160.1	Ca_kabuli_chr01	6352294	GG	AA	1946724567
SNP_P4_4092_6352318	NC_021160.1	Ca_kabuli_chr01	6352318	GG	AA	1946724569
SNP_P4_4093_6352324	NC_021160.1	Ca_kabuli_chr01	6352324	GG	AA	1946724571
SNP_P4_4094_6352598	NC_021160.1	Ca_kabuli_chr01	6352598	GG	CC	1946724573
SNP_P4_4095_6353652	NC_021160.1	Ca_kabuli_chr01	6353652	TT	CC	1946724575

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_4096_6353953	NC_021160.1	Ca_kabuli_chr01	6353953	TT	CC	1946724577
SNP_P4_4097_6358933	NC_021160.1	Ca_kabuli_chr01	6358933	TT	CC	1946724579
SNP_P4_4098_6358961	NC_021160.1	Ca_kabuli_chr01	6358961	GG	AA	1946724581
SNP_P4_4099_6359322	NC_021160.1	Ca_kabuli_chr01	6359322	TT	CC	1946724583
SNP_P4_4100_6359324	NC_021160.1	Ca_kabuli_chr01	6359324	TT	CC	1946724585
SNP_P4_4101_6359891	NC_021160.1	Ca_kabuli_chr01	6359891	TT	AA	1946724587
SNP_P4_4102_6359900	NC_021160.1	Ca_kabuli_chr01	6359900	CC	AA	1946724589
SNP_P4_4103_6359966	NC_021160.1	Ca_kabuli_chr01	6359966	TT	CC	1946724591
SNP_P4_4104_6360672	NC_021160.1	Ca_kabuli_chr01	6360672	AA	GG	1946724592
SNP_P4_4105_6360839	NC_021160.1	Ca_kabuli_chr01	6360839	TT	GG	1946724594
SNP_P4_4106_6362535	NC_021160.1	Ca_kabuli_chr01	6362535	CC	TT	1946724596
SNP_P4_4107_6362550	NC_021160.1	Ca_kabuli_chr01	6362550	TT	CC	1946724598
SNP_P4_4108_6362574	NC_021160.1	Ca_kabuli_chr01	6362574	CC	TT	1946724600
SNP_P4_4109_6362575	NC_021160.1	Ca_kabuli_chr01	6362575	TT	CC	1946724602
SNP_P4_4110_6362802	NC_021160.1	Ca_kabuli_chr01	6362802	CC	AA	1946724604
SNP_P4_4111_6362804	NC_021160.1	Ca_kabuli_chr01	6362804	TT	CC	1946724606
SNP_P4_4112_6362807	NC_021160.1	Ca_kabuli_chr01	6362807	TT	CC	1946724608
SNP_P4_4113_6362829	NC_021160.1	Ca_kabuli_chr01	6362829	GG	AA	1946724610
SNP_P4_4114_6363152	NC_021160.1	Ca_kabuli_chr01	6363152	TT	CC	1946724612
SNP_P4_4115_6363173	NC_021160.1	Ca_kabuli_chr01	6363173	CC	TT	1946724614
SNP_P4_4116_6367123	NC_021160.1	Ca_kabuli_chr01	6367123	GG	AA	1946724615
SNP_P4_4117_6367139	NC_021160.1	Ca_kabuli_chr01	6367139	AA	GG	1946724617
SNP_P4_4118_6367305	NC_021160.1	Ca_kabuli_chr01	6367305	GG	AA	1946724620
SNP_P4_4119_6367762	NC_021160.1	Ca_kabuli_chr01	6367762	TT	CC	1946724622
SNP_P4_4120_6367777	NC_021160.1	Ca_kabuli_chr01	6367777	CC	TT	1946724624
SNP_P4_4121_6367779	NC_021160.1	Ca_kabuli_chr01	6367779	AA	GG	1946724626
SNP_P4_4122_6367783	NC_021160.1	Ca_kabuli_chr01	6367783	GG	AA	1946724628
SNP_P4_4123_6367961	NC_021160.1	Ca_kabuli_chr01	6367961	GG	AA	1946724630
SNP_P4_4124_6367975	NC_021160.1	Ca_kabuli_chr01	6367975	CC	TT	1946724632
SNP_P4_4125_6368018	NC_021160.1	Ca_kabuli_chr01	6368018	TT	CC	1946724633
SNP_P4_4126_6368322	NC_021160.1	Ca_kabuli_chr01	6368322	TT	AA	1946724635
SNP_P4_4127_6368345	NC_021160.1	Ca_kabuli_chr01	6368345	GG	AA	1946724637
SNP_P4_4128_6368349	NC_021160.1	Ca_kabuli_chr01	6368349	GG	AA	1946724639
SNP_P4_4129_6369757	NC_021160.1	Ca_kabuli_chr01	6369757	GG	TT	1946724641
SNP_P4_4130_6369813	NC_021160.1	Ca_kabuli_chr01	6369813	TT	CC	1946724643
SNP_P4_4131_6373353	NC_021160.1	Ca_kabuli_chr01	6373353	GG	AA	1946724645
SNP_P4_4132_6373560	NC_021160.1	Ca_kabuli_chr01	6373560	TT	GG	1946724647
SNP_P4_4133_6373562	NC_021160.1	Ca_kabuli_chr01	6373562	CC	AA	1946724649
SNP_P4_4134_6373590	NC_021160.1	Ca_kabuli_chr01	6373590	GG	AA	1946724651
SNP_P4_4135_6373639	NC_021160.1	Ca_kabuli_chr01	6373639	AA	TT	1946724653
SNP_P4_4136_6374088	NC_021160.1	Ca_kabuli_chr01	6374088	TT	CC	1946724655
SNP_P4_4137_6374209	NC_021160.1	Ca_kabuli_chr01	6374209	TT	CC	1946724657

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_4138_6374324	NC_021160.1	Ca_kabuli_chr01	6374324	TT	GG	1946724659
SNP_P4_4140_6375126	NC_021160.1	Ca_kabuli_chr01	6375126	TT	CC	1946724660
SNP_P4_4141_6375154	NC_021160.1	Ca_kabuli_chr01	6375154	CC	TT	1946724662
SNP_P4_4143_6383800	NC_021160.1	Ca_kabuli_chr01	6383800	TT	CC	1946724664
SNP_P4_4144_6383877	NC_021160.1	Ca_kabuli_chr01	6383877	CC	TT	1946724666
SNP_P4_4145_6383921	NC_021160.1	Ca_kabuli_chr01	6383921	CC	TT	1946724668
SNP_P4_4146_6383922	NC_021160.1	Ca_kabuli_chr01	6383922	CC	AA	1946724670
SNP_P4_4147_6383995	NC_021160.1	Ca_kabuli_chr01	6383995	GG	AA	1946724672
SNP_P4_4149_6385673	NC_021160.1	Ca_kabuli_chr01	6385673	AA	GG	1946724674
SNP_P4_4150_6385694	NC_021160.1	Ca_kabuli_chr01	6385694	TT	CC	1946724676
SNP_P4_4151_6386013	NC_021160.1	Ca_kabuli_chr01	6386013	GG	AA	1946724678
SNP_P4_4152_6386057	NC_021160.1	Ca_kabuli_chr01	6386057	GG	AA	1946724680
SNP_P4_4153_6386551	NC_021160.1	Ca_kabuli_chr01	6386551	GG	TT	1946724682
SNP_P4_4154_6393012	NC_021160.1	Ca_kabuli_chr01	6393012	CC	TT	1946724684
SNP_P4_4155_6393335	NC_021160.1	Ca_kabuli_chr01	6393335	TT	AA	1946724686
SNP_P4_4156_6394314	NC_021160.1	Ca_kabuli_chr01	6394314	AA	GG	1946724688
SNP_P4_4157_6394333	NC_021160.1	Ca_kabuli_chr01	6394333	GG	AA	1946724690
SNP_P4_4158_6394347	NC_021160.1	Ca_kabuli_chr01	6394347	TT	CC	1946724692
SNP_P4_4159_6394370	NC_021160.1	Ca_kabuli_chr01	6394370	CC	TT	1946724694
SNP_P4_4160_6394389	NC_021160.1	Ca_kabuli_chr01	6394389	TT	CC	1946724696
SNP_P4_4161_6394401	NC_021160.1	Ca_kabuli_chr01	6394401	TT	CC	1946724698
SNP_P4_4162_6394419	NC_021160.1	Ca_kabuli_chr01	6394419	TT	CC	1946724700
SNP_P4_4163_6394460	NC_021160.1	Ca_kabuli_chr01	6394460	AA	GG	1946724702
SNP_P4_4164_6394568	NC_021160.1	Ca_kabuli_chr01	6394568	AA	GG	1946724704
SNP_P4_4165_6394600	NC_021160.1	Ca_kabuli_chr01	6394600	TT	CC	1946724706
SNP_P4_4166_6394606	NC_021160.1	Ca_kabuli_chr01	6394606	AA	GG	1946724708
SNP_P4_4167_6394706	NC_021160.1	Ca_kabuli_chr01	6394706	TT	CC	1946724710
SNP_P4_4168_6394725	NC_021160.1	Ca_kabuli_chr01	6394725	AA	CC	1946724712
SNP_P4_4169_6394742	NC_021160.1	Ca_kabuli_chr01	6394742	AA	CC	1946724714
SNP_P4_4170_6394844	NC_021160.1	Ca_kabuli_chr01	6394844	CC	TT	1946724716
SNP_P4_4171_6398517	NC_021160.1	Ca_kabuli_chr01	6398517	CC	TT	1946724718
SNP_P4_4172_6401514	NC_021160.1	Ca_kabuli_chr01	6401514	AA	CC	1946724720
SNP_P4_4173_6401520	NC_021160.1	Ca_kabuli_chr01	6401520	TT	AA	1946724722
SNP_P4_4175_6407412	NC_021160.1	Ca_kabuli_chr01	6407412	TT	AA	1946724724
SNP_P4_4176_6407475	NC_021160.1	Ca_kabuli_chr01	6407475	GG	TT	1946724726
SNP_P4_4177_6407490	NC_021160.1	Ca_kabuli_chr01	6407490	TT	GG	1946724728
SNP_P4_4178_6407492	NC_021160.1	Ca_kabuli_chr01	6407492	CC	TT	1946724730
SNP_P4_4179_6407740	NC_021160.1	Ca_kabuli_chr01	6407740	AA	CC	1946724732
SNP_P4_4180_6408465	NC_021160.1	Ca_kabuli_chr01	6408465	GG	TT	1946724734
SNP_P4_4181_6408536	NC_021160.1	Ca_kabuli_chr01	6408536	GG	TT	1946724736
SNP_P4_4182_6408804	NC_021160.1	Ca_kabuli_chr01	6408804	GG	AA	1946724738
SNP_P4_4183_6413536	NC_021160.1	Ca_kabuli_chr01	6413536	AA	GG	1946724740

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_4185_6415402	NC_021160.1	Ca_kabuli_chr01	6415402	AA	GG	1946724744
SNP_P4_4188_6426144	NC_021160.1	Ca_kabuli_chr01	6426144	AA	TT	1946724746
SNP_P4_4189_6427419	NC_021160.1	Ca_kabuli_chr01	6427419	AA	GG	1946724748
SNP_P4_4190_6427663	NC_021160.1	Ca_kabuli_chr01	6427663	CC	TT	1946724750
SNP_P4_4191_6427666	NC_021160.1	Ca_kabuli_chr01	6427666	GG	TT	1946724752
SNP_P4_4192_6430590	NC_021160.1	Ca_kabuli_chr01	6430590	CC	TT	1946724754
SNP_P4_4193_6430611	NC_021160.1	Ca_kabuli_chr01	6430611	CC	AA	1946724756
SNP_P4_4194_6431015	NC_021160.1	Ca_kabuli_chr01	6431015	CC	TT	1946724758
SNP_P4_4195_6431096	NC_021160.1	Ca_kabuli_chr01	6431096	AA	GG	1946724761
SNP_P4_4196_6431716	NC_021160.1	Ca_kabuli_chr01	6431716	CC	TT	1946724763
SNP_P4_4197_6432942	NC_021160.1	Ca_kabuli_chr01	6432942	AA	TT	1946724765
SNP_P4_4198_6433264	NC_021160.1	Ca_kabuli_chr01	6433264	TT	CC	1946724767
SNP_P4_4199_6433883	NC_021160.1	Ca_kabuli_chr01	6433883	AA	GG	1946724769
SNP_P4_4200_6433975	NC_021160.1	Ca_kabuli_chr01	6433975	GG	AA	1946724771
SNP_P4_4201_6434056	NC_021160.1	Ca_kabuli_chr01	6434056	CC	TT	1946724774
SNP_P4_4202_6434103	NC_021160.1	Ca_kabuli_chr01	6434103	CC	AA	1946724776
SNP_P4_4203_6434104	NC_021160.1	Ca_kabuli_chr01	6434104	GG	TT	1946724778
SNP_P4_4204_6434144	NC_021160.1	Ca_kabuli_chr01	6434144	CC	TT	1946724780
SNP_P4_4205_6434226	NC_021160.1	Ca_kabuli_chr01	6434226	TT	CC	1946724782
SNP_P4_4206_6434337	NC_021160.1	Ca_kabuli_chr01	6434337	TT	AA	1946724784
SNP_P4_4207_6434353	NC_021160.1	Ca_kabuli_chr01	6434353	TT	CC	1946724786
SNP_P4_4208_6434382	NC_021160.1	Ca_kabuli_chr01	6434382	CC	TT	1946724788
SNP_P4_4209_6434985	NC_021160.1	Ca_kabuli_chr01	6434985	TT	AA	1946724790
SNP_P4_4210_6435554	NC_021160.1	Ca_kabuli_chr01	6435554	TT	CC	1946724792
SNP_P4_4211_6435821	NC_021160.1	Ca_kabuli_chr01	6435821	GG	AA	1946724794
SNP_P4_4212_6437062	NC_021160.1	Ca_kabuli_chr01	6437062	CC	TT	1946724796
SNP_P4_4213_6438563	NC_021160.1	Ca_kabuli_chr01	6438563	CC	GG	1946724798
SNP_P4_4214_6439464	NC_021160.1	Ca_kabuli_chr01	6439464	CC	AA	1946724800
SNP_P4_4215_6444045	NC_021160.1	Ca_kabuli_chr01	6444045	GG	AA	1946724802
SNP_P4_4216_6444288	NC_021160.1	Ca_kabuli_chr01	6444288	CC	TT	1946724804
SNP_P4_4217_6444293	NC_021160.1	Ca_kabuli_chr01	6444293	CC	GG	1946724806
SNP_P4_4218_6444767	NC_021160.1	Ca_kabuli_chr01	6444767	AA	GG	1946724808
SNP_P4_4219_6444768	NC_021160.1	Ca_kabuli_chr01	6444768	GG	AA	1946724811
SNP_P4_4220_6444776	NC_021160.1	Ca_kabuli_chr01	6444776	CC	TT	1946724813
SNP_P4_4221_6444867	NC_021160.1	Ca_kabuli_chr01	6444867	CC	AA	1946724815
SNP_P4_4222_6444901	NC_021160.1	Ca_kabuli_chr01	6444901	CC	TT	1946724817
SNP_P4_4223_6444930	NC_021160.1	Ca_kabuli_chr01	6444930	GG	AA	1946724819
SNP_P4_4224_6445059	NC_021160.1	Ca_kabuli_chr01	6445059	TT	AA	1946724821
SNP_P4_4225_6445281	NC_021160.1	Ca_kabuli_chr01	6445281	TT	CC	1946724823
SNP_P4_4226_6445284	NC_021160.1	Ca_kabuli_chr01	6445284	AA	GG	1946724825
SNP_P4_4227_6445407	NC_021160.1	Ca_kabuli_chr01	6445407	CC	TT	1946724827

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_4229_6445422	NC_021160.1	Ca_kabuli_chr01	6445422	TT	CC	1946724831
SNP_P4_4230_6445429	NC_021160.1	Ca_kabuli_chr01	6445429	TT	CC	1946724833
SNP_P4_4231_6445927	NC_021160.1	Ca_kabuli_chr01	6445927	TT	CC	1946724835
SNP_P4_4232_6446104	NC_021160.1	Ca_kabuli_chr01	6446104	CC	TT	1946724837
SNP_P4_4233_6446200	NC_021160.1	Ca_kabuli_chr01	6446200	CC	TT	1946724839
SNP_P4_4234_6446213	NC_021160.1	Ca_kabuli_chr01	6446213	TT	CC	1946724841
SNP_P4_4235_6452981	NC_021160.1	Ca_kabuli_chr01	6452981	GG	CC	1946724843
SNP_P4_4236_6453725	NC_021160.1	Ca_kabuli_chr01	6453725	GG	TT	1946724845
SNP_P4_4237_6454182	NC_021160.1	Ca_kabuli_chr01	6454182	GG	AA	1946724847
SNP_P4_4238_6457940	NC_021160.1	Ca_kabuli_chr01	6457940	TT	CC	1946724849
SNP_P4_4239_6458382	NC_021160.1	Ca_kabuli_chr01	6458382	AA	GG	1946724851
SNP_P4_4240_6459084	NC_021160.1	Ca_kabuli_chr01	6459084	GG	TT	1946724853
SNP_P4_4241_6459091	NC_021160.1	Ca_kabuli_chr01	6459091	GG	AA	1946724855
SNP_P4_4242_6459114	NC_021160.1	Ca_kabuli_chr01	6459114	TT	AA	1946724857
SNP_P4_4243_6459131	NC_021160.1	Ca_kabuli_chr01	6459131	TT	CC	1946724859
SNP_P4_4244_6459473	NC_021160.1	Ca_kabuli_chr01	6459473	AA	GG	1946724861
SNP_P4_4245_6459482	NC_021160.1	Ca_kabuli_chr01	6459482	TT	GG	1946724862
SNP_P4_4246_6460298	NC_021160.1	Ca_kabuli_chr01	6460298	CC	TT	1946724864
SNP_P4_4247_6460488	NC_021160.1	Ca_kabuli_chr01	6460488	AA	CC	1946724866
SNP_P4_4248_6460713	NC_021160.1	Ca_kabuli_chr01	6460713	TT	CC	1946724868
SNP_P4_4249_6460714	NC_021160.1	Ca_kabuli_chr01	6460714	TT	CC	1946724870
SNP_P4_4250_6460718	NC_021160.1	Ca_kabuli_chr01	6460718	CC	AA	1946724872
SNP_P4_4251_6460982	NC_021160.1	Ca_kabuli_chr01	6460982	CC	TT	1946724874
SNP_P4_4252_6461734	NC_021160.1	Ca_kabuli_chr01	6461734	AA	GG	1946724876
SNP_P4_4253_6463219	NC_021160.1	Ca_kabuli_chr01	6463219	AA	GG	1946724878
SNP_P4_4254_6463893	NC_021160.1	Ca_kabuli_chr01	6463893	AA	GG	1946724880
SNP_P4_4255_6464200	NC_021160.1	Ca_kabuli_chr01	6464200	CC	TT	1946724882
SNP_P4_4256_6465572	NC_021160.1	Ca_kabuli_chr01	6465572	AA	TT	1946724884
SNP_P4_4257_6466149	NC_021160.1	Ca_kabuli_chr01	6466149	AA	GG	1946724886
SNP_P4_4258_6466231	NC_021160.1	Ca_kabuli_chr01	6466231	GG	AA	1946724888
SNP_P4_4259_6466705	NC_021160.1	Ca_kabuli_chr01	6466705	TT	AA	1946724890
SNP_P4_4260_6466751	NC_021160.1	Ca_kabuli_chr01	6466751	CC	GG	1946724892
SNP_P4_4261_6469951	NC_021160.1	Ca_kabuli_chr01	6469951	GG	AA	1946724894
SNP_P4_4262_6472054	NC_021160.1	Ca_kabuli_chr01	6472054	GG	AA	1946724896
SNP_P4_4263_6472294	NC_021160.1	Ca_kabuli_chr01	6472294	TT	CC	1946724898
SNP_P4_4264_6472299	NC_021160.1	Ca_kabuli_chr01	6472299	GG	AA	1946724900
SNP_P4_4265_6472300	NC_021160.1	Ca_kabuli_chr01	6472300	AA	GG	1946724902
SNP_P4_4266_6472485	NC_021160.1	Ca_kabuli_chr01	6472485	AA	GG	1946724904
SNP_P4_4268_6475120	NC_021160.1	Ca_kabuli_chr01	6475120	GG	AA	1946724906
SNP_P4_4269_6475755	NC_021160.1	Ca_kabuli_chr01	6475755	AA	GG	1946724908
SNP_P4_4270_6476040	NC_021160.1	Ca_kabuli_chr01	6476040	TT	GG	1946724910

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_4271_6476334	NC_021160.1	Ca_kabuli_chr01	6476334	TT	CC	1946724912
SNP_P4_4272_6476391	NC_021160.1	Ca_kabuli_chr01	6476391	CC	TT	1946724914
SNP_P4_4273_6476421	NC_021160.1	Ca_kabuli_chr01	6476421	TT	AA	1946724916
SNP_P4_4274_6476660	NC_021160.1	Ca_kabuli_chr01	6476660	GG	AA	1946724917
SNP_P4_4275_6476750	NC_021160.1	Ca_kabuli_chr01	6476750	AA	TT	1946724919
SNP_P4_4276_6476769	NC_021160.1	Ca_kabuli_chr01	6476769	GG	AA	1946724922
SNP_P4_4277_6476805	NC_021160.1	Ca_kabuli_chr01	6476805	TT	CC	1946724924
SNP_P4_4278_6478736	NC_021160.1	Ca_kabuli_chr01	6478736	AA	GG	1946724926
SNP_P4_4279_6479035	NC_021160.1	Ca_kabuli_chr01	6479035	GG	AA	1946724928
SNP_P4_4280_6479061	NC_021160.1	Ca_kabuli_chr01	6479061	AA	TT	1946724930
SNP_P4_4281_6479067	NC_021160.1	Ca_kabuli_chr01	6479067	AA	TT	1946724932
SNP_P4_4282_6481157	NC_021160.1	Ca_kabuli_chr01	6481157	CC	TT	1946724934
SNP_P4_4283_6481477	NC_021160.1	Ca_kabuli_chr01	6481477	TT	CC	1946724936
SNP_P4_4284_6481815	NC_021160.1	Ca_kabuli_chr01	6481815	CC	AA	1946724938
SNP_P4_4285_6482100	NC_021160.1	Ca_kabuli_chr01	6482100	GG	TT	1946724940
SNP_P4_4286_6482592	NC_021160.1	Ca_kabuli_chr01	6482592	CC	AA	1946724942
SNP_P4_4287_6482940	NC_021160.1	Ca_kabuli_chr01	6482940	GG	CC	1946724944
SNP_P4_4288_6483969	NC_021160.1	Ca_kabuli_chr01	6483969	CC	TT	1946724946
SNP_P4_4289_6484016	NC_021160.1	Ca_kabuli_chr01	6484016	AA	CC	1946724948
SNP_P4_4290_6484033	NC_021160.1	Ca_kabuli_chr01	6484033	TT	CC	1946724950
SNP_P4_4291_6484083	NC_021160.1	Ca_kabuli_chr01	6484083	AA	CC	1946724952
SNP_P4_4292_6484103	NC_021160.1	Ca_kabuli_chr01	6484103	TT	GG	1946724954
SNP_P4_4293_6484401	NC_021160.1	Ca_kabuli_chr01	6484401	TT	AA	1946724956
SNP_P4_4294_6484635	NC_021160.1	Ca_kabuli_chr01	6484635	TT	CC	1946724958
SNP_P4_4295_6484797	NC_021160.1	Ca_kabuli_chr01	6484797	GG	AA	1946724961
SNP_P4_4296_6486056	NC_021160.1	Ca_kabuli_chr01	6486056	AA	GG	1946724963
SNP_P4_4297_6486350	NC_021160.1	Ca_kabuli_chr01	6486350	TT	CC	1946724965
SNP_P4_4298_6486730	NC_021160.1	Ca_kabuli_chr01	6486730	CC	TT	1946724967
SNP_P4_4299_6487135	NC_021160.1	Ca_kabuli_chr01	6487135	TT	GG	1946724969
SNP_P4_4300_6487198	NC_021160.1	Ca_kabuli_chr01	6487198	AA	GG	1946724971
SNP_P4_4301_6488126	NC_021160.1	Ca_kabuli_chr01	6488126	GG	TT	1946724973
SNP_P4_4302_6488144	NC_021160.1	Ca_kabuli_chr01	6488144	CC	TT	1946724975
SNP_P4_4303_6488782	NC_021160.1	Ca_kabuli_chr01	6488782	GG	AA	1946724977
SNP_P4_4304_6488802	NC_021160.1	Ca_kabuli_chr01	6488802	AA	GG	1946724979
SNP_P4_4305_6488848	NC_021160.1	Ca_kabuli_chr01	6488848	AA	GG	1946724981
SNP_P4_4306_6488910	NC_021160.1	Ca_kabuli_chr01	6488910	TT	CC	1946724983
SNP_P4_4307_6488916	NC_021160.1	Ca_kabuli_chr01	6488916	AA	GG	1946724985
SNP_P4_4308_6488947	NC_021160.1	Ca_kabuli_chr01	6488947	GG	TT	1946724987
SNP_P4_4309_6489676	NC_021160.1	Ca_kabuli_chr01	6489676	AA	TT	1946724989
SNP_P4_4310_6489712	NC_021160.1	Ca_kabuli_chr01	6489712	GG	AA	1946724991
SNP_P4_4312_6490788	NC_021160.1	Ca_kabuli_chr01	6490788	TT	CC	1946724993
SNP_P4_4313_6490813	NC_021160.1	Ca_kabuli_chr01	6490813	GG	AA	1946724995

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_4315_6491927	NC_021160.1	Ca_kabuli_chr01	6491927	TT	GG	1946724999
SNP_P4_4316_6491933	NC_021160.1	Ca_kabuli_chr01	6491933	TT	CC	1946725001
SNP_P4_4317_6492531	NC_021160.1	Ca_kabuli_chr01	6492531	CC	AA	1946725002
SNP_P4_4318_6492546	NC_021160.1	Ca_kabuli_chr01	6492546	CC	AA	1946725004
SNP_P4_4319_6492887	NC_021160.1	Ca_kabuli_chr01	6492887	TT	GG	1946725006
SNP_P4_4320_6508888	NC_021160.1	Ca_kabuli_chr01	6508888	CC	AA	1946725008
SNP_P4_4321_6508894	NC_021160.1	Ca_kabuli_chr01	6508894	CC	AA	1946725010
SNP_P4_4322_6510479	NC_021160.1	Ca_kabuli_chr01	6510479	AA	GG	1946725012
SNP_P4_4323_6510513	NC_021160.1	Ca_kabuli_chr01	6510513	CC	TT	1946725014
SNP_P4_4324_6510940	NC_021160.1	Ca_kabuli_chr01	6510940	CC	TT	1946725016
SNP_P4_4325_6511426	NC_021160.1	Ca_kabuli_chr01	6511426	TT	AA	1946725018
SNP_P4_4326_6511442	NC_021160.1	Ca_kabuli_chr01	6511442	AA	GG	1946725020
SNP_P4_4327_6512022	NC_021160.1	Ca_kabuli_chr01	6512022	TT	CC	1946725022
SNP_P4_4328_6512030	NC_021160.1	Ca_kabuli_chr01	6512030	GG	CC	1946725024
SNP_P4_4329_6512031	NC_021160.1	Ca_kabuli_chr01	6512031	GG	AA	1946725026
SNP_P4_4331_6512349	NC_021160.1	Ca_kabuli_chr01	6512349	TT	CC	1946725028
SNP_P4_4332_6512926	NC_021160.1	Ca_kabuli_chr01	6512926	CC	GG	1946725030
SNP_P4_4333_6513083	NC_021160.1	Ca_kabuli_chr01	6513083	GG	AA	1946725032
SNP_P4_4334_6513187	NC_021160.1	Ca_kabuli_chr01	6513187	GG	AA	1946725034
SNP_P4_4335_6513211	NC_021160.1	Ca_kabuli_chr01	6513211	CC	TT	1946725036
SNP_P4_4336_6513797	NC_021160.1	Ca_kabuli_chr01	6513797	GG	CC	1946725038
SNP_P4_4337_6514670	NC_021160.1	Ca_kabuli_chr01	6514670	CC	TT	1946725040
SNP_P4_4338_6515976	NC_021160.1	Ca_kabuli_chr01	6515976	TT	CC	1946725042
SNP_P4_4339_6516976	NC_021160.1	Ca_kabuli_chr01	6516976	TT	GG	1946725044
SNP_P4_4340_6516991	NC_021160.1	Ca_kabuli_chr01	6516991	GG	TT	1946725046
SNP_P4_4341_6516994	NC_021160.1	Ca_kabuli_chr01	6516994	AA	GG	1946725048
SNP_P4_4342_6517013	NC_021160.1	Ca_kabuli_chr01	6517013	GG	AA	1946725050
SNP_P4_4343_6517022	NC_021160.1	Ca_kabuli_chr01	6517022	GG	AA	1946725052
SNP_P4_4344_6518597	NC_021160.1	Ca_kabuli_chr01	6518597	AA	GG	1946725055
SNP_P4_4345_6518839	NC_021160.1	Ca_kabuli_chr01	6518839	AA	TT	1946725057
SNP_P4_4346_6522797	NC_021160.1	Ca_kabuli_chr01	6522797	AA	TT	1946725059
SNP_P4_4348_6523636	NC_021160.1	Ca_kabuli_chr01	6523636	CC	TT	1946725061
SNP_P4_4349_6523646	NC_021160.1	Ca_kabuli_chr01	6523646	TT	CC	1946725063
SNP_P4_4350_6524009	NC_021160.1	Ca_kabuli_chr01	6524009	CC	TT	1946725065
SNP_P4_4351_6525541	NC_021160.1	Ca_kabuli_chr01	6525541	CC	TT	1946725067
SNP_P4_4352_6526023	NC_021160.1	Ca_kabuli_chr01	6526023	AA	GG	1946725069
SNP_P4_4353_6527019	NC_021160.1	Ca_kabuli_chr01	6527019	TT	CC	1946725071
SNP_P4_4354_6529107	NC_021160.1	Ca_kabuli_chr01	6529107	AA	GG	1946725073
SNP_P4_4355_6529173	NC_021160.1	Ca_kabuli_chr01	6529173	CC	TT	1946725075
SNP_P4_4356_6529422	NC_021160.1	Ca_kabuli_chr01	6529422	AA	TT	1946725077
SNP_P4_4357_6531402	NC_021160.1	Ca_kabuli_chr01	6531402	TT	CC	1946725078

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_4359_6531456	NC_021160.1	Ca_kabuli_chr01	6531456	TT	CC	1946725082
SNP_P4_4360_6532130	NC_021160.1	Ca_kabuli_chr01	6532130	GG	AA	1946725084
SNP_P4_4361_6532261	NC_021160.1	Ca_kabuli_chr01	6532261	TT	AA	1946725086
SNP_P4_4362_6533054	NC_021160.1	Ca_kabuli_chr01	6533054	CC	AA	1946725088
SNP_P4_4363_6533087	NC_021160.1	Ca_kabuli_chr01	6533087	AA	GG	1946725090
SNP_P4_4364_6533407	NC_021160.1	Ca_kabuli_chr01	6533407	TT	CC	1946725092
SNP_P4_4365_6533489	NC_021160.1	Ca_kabuli_chr01	6533489	GG	AA	1946725094
SNP_P4_4366_6534226	NC_021160.1	Ca_kabuli_chr01	6534226	AA	GG	1946725096
SNP_P4_4367_6534911	NC_021160.1	Ca_kabuli_chr01	6534911	CC	AA	1946725098
SNP_P4_4368_6535179	NC_021160.1	Ca_kabuli_chr01	6535179	CC	TT	1946725100
SNP_P4_4369_6536251	NC_021160.1	Ca_kabuli_chr01	6536251	CC	TT	1946725102
SNP_P4_4370_6536285	NC_021160.1	Ca_kabuli_chr01	6536285	CC	GG	1946725104
SNP_P4_4371_6536290	NC_021160.1	Ca_kabuli_chr01	6536290	GG	AA	1946725106
SNP_P4_4372_6536537	NC_021160.1	Ca_kabuli_chr01	6536537	CC	AA	1946725108
SNP_P4_4373_6537832	NC_021160.1	Ca_kabuli_chr01	6537832	TT	CC	1946725110
SNP_P4_4374_6538485	NC_021160.1	Ca_kabuli_chr01	6538485	AA	GG	1946725112
SNP_P4_4377_6538849	NC_021160.1	Ca_kabuli_chr01	6538849	TT	CC	1946725114
SNP_P4_4378_6538850	NC_021160.1	Ca_kabuli_chr01	6538850	TT	GG	1946725116
SNP_P4_4379_6539469	NC_021160.1	Ca_kabuli_chr01	6539469	TT	CC	1946725118
SNP_P4_4380_6541211	NC_021160.1	Ca_kabuli_chr01	6541211	AA	CC	1946725119
SNP_P4_4381_6541674	NC_021160.1	Ca_kabuli_chr01	6541674	CC	AA	1946725121
SNP_P4_4382_6541781	NC_021160.1	Ca_kabuli_chr01	6541781	GG	AA	1946725123
SNP_P4_4383_6541910	NC_021160.1	Ca_kabuli_chr01	6541910	AA	TT	1946725125
SNP_P4_4384_6542820	NC_021160.1	Ca_kabuli_chr01	6542820	AA	GG	1946725127
SNP_P4_4385_6543011	NC_021160.1	Ca_kabuli_chr01	6543011	AA	GG	1946725129
SNP_P4_4386_6543154	NC_021160.1	Ca_kabuli_chr01	6543154	GG	AA	1946725131
SNP_P4_4387_6544257	NC_021160.1	Ca_kabuli_chr01	6544257	GG	CC	1946725133
SNP_P4_4388_6544461	NC_021160.1	Ca_kabuli_chr01	6544461	TT	AA	1946725135
SNP_P4_4389_6544511	NC_021160.1	Ca_kabuli_chr01	6544511	CC	GG	1946725137
SNP_P4_4390_6544569	NC_021160.1	Ca_kabuli_chr01	6544569	GG	AA	1946725139
SNP_P4_4391_6546601	NC_021160.1	Ca_kabuli_chr01	6546601	CC	TT	1946725141
SNP_P4_4392_6546978	NC_021160.1	Ca_kabuli_chr01	6546978	CC	TT	1946725143
SNP_P4_4393_6546988	NC_021160.1	Ca_kabuli_chr01	6546988	AA	GG	1946725145
SNP_P4_4394_6547382	NC_021160.1	Ca_kabuli_chr01	6547382	AA	CC	1946725147
SNP_P4_4395_6553018	NC_021160.1	Ca_kabuli_chr01	6553018	TT	GG	1946725149
SNP_P4_4396_6553423	NC_021160.1	Ca_kabuli_chr01	6553423	CC	GG	1946725151
SNP_P4_4397_6553497	NC_021160.1	Ca_kabuli_chr01	6553497	GG	AA	1946725153
SNP_P4_4398_6553555	NC_021160.1	Ca_kabuli_chr01	6553555	AA	GG	1946725155
SNP_P4_4399_6554029	NC_021160.1	Ca_kabuli_chr01	6554029	AA	CC	1946725157
SNP_P4_4401_6589459	NC_021160.1	Ca_kabuli_chr01	6589459	CC	TT	1946725159
SNP_P4_4402_6589594	NC_021160.1	Ca_kabuli_chr01	6589594	AA	CC	1946725162

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_4404_6620799	NC_021160.1	Ca_kabuli_chr01	6620799	GG	AA	1946725164
SNP_P4_4405_6646161	NC_021160.1	Ca_kabuli_chr01	6646161	TT	CC	1946725166
SNP_P4_4406_6646178	NC_021160.1	Ca_kabuli_chr01	6646178	TT	CC	1946725168
SNP_P4_4407_6646179	NC_021160.1	Ca_kabuli_chr01	6646179	GG	CC	1946725170
SNP_P4_4408_6693768	NC_021160.1	Ca_kabuli_chr01	6693768	TT	GG	1946725172
SNP_P4_4409_6694522	NC_021160.1	Ca_kabuli_chr01	6694522	TT	CC	1946725174
SNP_P4_4410_6694524	NC_021160.1	Ca_kabuli_chr01	6694524	AA	GG	1946725176
SNP_P4_4411_6697393	NC_021160.1	Ca_kabuli_chr01	6697393	GG	AA	1946725178
SNP_P4_4413_6744329	NC_021160.1	Ca_kabuli_chr01	6744329	GG	TT	1946725180
SNP_P4_4414_6756569	NC_021160.1	Ca_kabuli_chr01	6756569	AA	CC	1946725182
SNP_P4_4415_6757056	NC_021160.1	Ca_kabuli_chr01	6757056	GG	AA	1946725183
SNP_P4_4416_6773045	NC_021160.1	Ca_kabuli_chr01	6773045	AA	CC	1946725185
SNP_P4_4417_6775793	NC_021160.1	Ca_kabuli_chr01	6775793	TT	CC	1946725187
SNP_P4_4418_6775821	NC_021160.1	Ca_kabuli_chr01	6775821	CC	TT	1946725189
SNP_P4_4419_6775889	NC_021160.1	Ca_kabuli_chr01	6775889	AA	GG	1946725191
SNP_P4_4420_6776210	NC_021160.1	Ca_kabuli_chr01	6776210	AA	GG	1946725193
SNP_P4_4421_6778035	NC_021160.1	Ca_kabuli_chr01	6778035	TT	CC	1946725195
SNP_P4_4422_6778075	NC_021160.1	Ca_kabuli_chr01	6778075	TT	AA	1946725197
SNP_P4_4423_6778094	NC_021160.1	Ca_kabuli_chr01	6778094	AA	GG	1946725199
SNP_P4_4424_6778128	NC_021160.1	Ca_kabuli_chr01	6778128	AA	GG	1946725201
SNP_P4_4425_6778168	NC_021160.1	Ca_kabuli_chr01	6778168	CC	TT	1946725203
SNP_P4_4426_6778488	NC_021160.1	Ca_kabuli_chr01	6778488	GG	TT	1946725205
SNP_P4_4427_6778498	NC_021160.1	Ca_kabuli_chr01	6778498	TT	GG	1946725207
SNP_P4_4428_6778517	NC_021160.1	Ca_kabuli_chr01	6778517	CC	TT	1946725209
SNP_P4_4429_6779880	NC_021160.1	Ca_kabuli_chr01	6779880	AA	GG	1946725211
SNP_P4_4431_6826377	NC_021160.1	Ca_kabuli_chr01	6826377	TT	CC	1946725213
SNP_P4_4432_6826437	NC_021160.1	Ca_kabuli_chr01	6826437	AA	CC	1946725215
SNP_P4_4433_6858819	NC_021160.1	Ca_kabuli_chr01	6858819	TT	AA	1946725216
SNP_P4_4434_6869736	NC_021160.1	Ca_kabuli_chr01	6869736	CC	GG	1946725218
SNP_P4_4437_7016200	NC_021160.1	Ca_kabuli_chr01	7016200	TT	CC	1946725220
SNP_P4_4439_7022495	NC_021160.1	Ca_kabuli_chr01	7022495	CC	GG	1946725222
SNP_P4_4440_7076158	NC_021160.1	Ca_kabuli_chr01	7076158	TT	AA	1946725224
SNP_P4_4441_7076159	NC_021160.1	Ca_kabuli_chr01	7076159	CC	AA	1946725226
SNP_P4_4444_7095225	NC_021160.1	Ca_kabuli_chr01	7095225	CC	TT	1946725228
SNP_P4_4446_7116283	NC_021160.1	Ca_kabuli_chr01	7116283	TT	GG	1946725230
SNP_P4_4448_7130491	NC_021160.1	Ca_kabuli_chr01	7130491	CC	TT	1946725232
SNP_P4_4449_7154793	NC_021160.1	Ca_kabuli_chr01	7154793	AA	CC	1946725234
SNP_P4_4450_7154857	NC_021160.1	Ca_kabuli_chr01	7154857	TT	CC	1946725236
SNP_P4_4451_7174375	NC_021160.1	Ca_kabuli_chr01	7174375	AA	GG	1946725238
SNP_P4_4452_7174376	NC_021160.1	Ca_kabuli_chr01	7174376	TT	CC	1946725239
SNP_P4_4453_7187276	NC_021160.1	Ca_kabuli_chr01	7187276	TT	CC	1946725241
SNP_P4_4454_7212004	NC_021160.1	Ca_kabuli_chr01	7212004	CC	TT	1946725243

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_4459_7294737	NC_021160.1	Ca_kabuli_chr01	7294737	CC	TT	1946725247
SNP_P4_4460_7298873	NC_021160.1	Ca_kabuli_chr01	7298873	AA	GG	1946725249
SNP_P4_4461_7316209	NC_021160.1	Ca_kabuli_chr01	7316209	GG	AA	1946725251
SNP_P4_4462_7316981	NC_021160.1	Ca_kabuli_chr01	7316981	CC	TT	1946725252
SNP_P4_4463_7319221	NC_021160.1	Ca_kabuli_chr01	7319221	GG	TT	1946725254
SNP_P4_4464_7320713	NC_021160.1	Ca_kabuli_chr01	7320713	CC	TT	1946725256
SNP_P4_4465_7320813	NC_021160.1	Ca_kabuli_chr01	7320813	TT	GG	1946725258
SNP_P4_4466_7347573	NC_021160.1	Ca_kabuli_chr01	7347573	GG	TT	1946725260
SNP_P4_4467_7378088	NC_021160.1	Ca_kabuli_chr01	7378088	CC	TT	1946725262
SNP_P4_4468_7385381	NC_021160.1	Ca_kabuli_chr01	7385381	GG	TT	1946725264
SNP_P4_4469_7396971	NC_021160.1	Ca_kabuli_chr01	7396971	CC	AA	1946725266
SNP_P4_4470_7406160	NC_021160.1	Ca_kabuli_chr01	7406160	CC	GG	1946725268
SNP_P4_4471_7406219	NC_021160.1	Ca_kabuli_chr01	7406219	AA	CC	1946725270
SNP_P4_4472_7406228	NC_021160.1	Ca_kabuli_chr01	7406228	TT	CC	1946725272
SNP_P4_4473_7415640	NC_021160.1	Ca_kabuli_chr01	7415640	TT	AA	1946725274
SNP_P4_4474_7418142	NC_021160.1	Ca_kabuli_chr01	7418142	GG	AA	1946725276
SNP_P4_4476_7424873	NC_021160.1	Ca_kabuli_chr01	7424873	AA	GG	1946725278
SNP_P4_4477_7433105	NC_021160.1	Ca_kabuli_chr01	7433105	AA	TT	1946725280
SNP_P4_4478_7443334	NC_021160.1	Ca_kabuli_chr01	7443334	CC	TT	1946725282
SNP_P4_4479_7493347	NC_021160.1	Ca_kabuli_chr01	7493347	TT	CC	1946725284
SNP_P4_4480_7499259	NC_021160.1	Ca_kabuli_chr01	7499259	CC	TT	1946725286
SNP_P4_4481_7518441	NC_021160.1	Ca_kabuli_chr01	7518441	TT	CC	1946725288
SNP_P4_4482_7539018	NC_021160.1	Ca_kabuli_chr01	7539018	GG	AA	1946725290
SNP_P4_4483_7544224	NC_021160.1	Ca_kabuli_chr01	7544224	GG	AA	1946725291
SNP_P4_4485_7590948	NC_021160.1	Ca_kabuli_chr01	7590948	GG	TT	1946725293
SNP_P4_4486_7590976	NC_021160.1	Ca_kabuli_chr01	7590976	AA	GG	1946725295
SNP_P4_4487_7590994	NC_021160.1	Ca_kabuli_chr01	7590994	CC	TT	1946725297
SNP_P4_4488_7590999	NC_021160.1	Ca_kabuli_chr01	7590999	GG	TT	1946725299
SNP_P4_4489_7591009	NC_021160.1	Ca_kabuli_chr01	7591009	CC	TT	1946725301
SNP_P4_4490_7591010	NC_021160.1	Ca_kabuli_chr01	7591010	CC	TT	1946725302
SNP_P4_4491_7591307	NC_021160.1	Ca_kabuli_chr01	7591307	TT	CC	1946725303
SNP_P4_4492_7591535	NC_021160.1	Ca_kabuli_chr01	7591535	AA	GG	1946725304
SNP_P4_4493_7591536	NC_021160.1	Ca_kabuli_chr01	7591536	CC	TT	1946725305
SNP_P4_4494_7591542	NC_021160.1	Ca_kabuli_chr01	7591542	GG	AA	1946725306
SNP_P4_4495_7591548	NC_021160.1	Ca_kabuli_chr01	7591548	GG	CC	1946725307
SNP_P4_4496_7591589	NC_021160.1	Ca_kabuli_chr01	7591589	GG	AA	1946725308
SNP_P4_4497_7591623	NC_021160.1	Ca_kabuli_chr01	7591623	CC	TT	1946725309
SNP_P4_4498_7591627	NC_021160.1	Ca_kabuli_chr01	7591627	GG	AA	1946725311
SNP_P4_4499_7591823	NC_021160.1	Ca_kabuli_chr01	7591823	CC	GG	1946725313
SNP_P4_4500_7591824	NC_021160.1	Ca_kabuli_chr01	7591824	CC	TT	1946725315
SNP_P4_4501_7591874	NC_021160.1	Ca_kabuli_chr01	7591874	AA	GG	1946725317

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_4503_7618279	NC_021160.1	Ca_kabuli_chr01	7618279	GG	AA	1946725321
SNP_P4_4505_7629992	NC_021160.1	Ca_kabuli_chr01	7629992	TT	AA	1946725323
SNP_P4_4506_7630242	NC_021160.1	Ca_kabuli_chr01	7630242	GG	CC	1946725325
SNP_P4_4507_7630353	NC_021160.1	Ca_kabuli_chr01	7630353	CC	AA	1946725327
SNP_P4_4508_7630356	NC_021160.1	Ca_kabuli_chr01	7630356	TT	AA	1946725329
SNP_P4_4509_7630368	NC_021160.1	Ca_kabuli_chr01	7630368	TT	AA	1946725331
SNP_P4_4511_7630876	NC_021160.1	Ca_kabuli_chr01	7630876	GG	CC	1946725333
SNP_P4_4512_7630965	NC_021160.1	Ca_kabuli_chr01	7630965	GG	CC	1946725335
SNP_P4_4513_7634531	NC_021160.1	Ca_kabuli_chr01	7634531	CC	TT	1946725337
SNP_P4_4516_7635730	NC_021160.1	Ca_kabuli_chr01	7635730	TT	AA	1946725339
SNP_P4_4517_7635771	NC_021160.1	Ca_kabuli_chr01	7635771	TT	CC	1946725341
SNP_P4_4518_7635788	NC_021160.1	Ca_kabuli_chr01	7635788	CC	TT	1946725343
SNP_P4_4519_7635846	NC_021160.1	Ca_kabuli_chr01	7635846	GG	CC	1946725345
SNP_P4_4520_7635850	NC_021160.1	Ca_kabuli_chr01	7635850	TT	AA	1946725347
SNP_P4_4521_7635852	NC_021160.1	Ca_kabuli_chr01	7635852	CC	TT	1946725349
SNP_P4_4522_7635865	NC_021160.1	Ca_kabuli_chr01	7635865	AA	GG	1946725351
SNP_P4_4523_7635880	NC_021160.1	Ca_kabuli_chr01	7635880	CC	TT	1946725353
SNP_P4_4524_7635895	NC_021160.1	Ca_kabuli_chr01	7635895	TT	CC	1946725355
SNP_P4_4525_7635928	NC_021160.1	Ca_kabuli_chr01	7635928	CC	TT	1946725357
SNP_P4_4526_7635942	NC_021160.1	Ca_kabuli_chr01	7635942	AA	GG	1946725358
SNP_P4_4527_7636134	NC_021160.1	Ca_kabuli_chr01	7636134	TT	CC	1946725360
SNP_P4_4528_7637041	NC_021160.1	Ca_kabuli_chr01	7637041	TT	CC	1946725362
SNP_P4_4529_7637056	NC_021160.1	Ca_kabuli_chr01	7637056	GG	TT	1946725364
SNP_P4_4530_7637191	NC_021160.1	Ca_kabuli_chr01	7637191	GG	AA	1946725366
SNP_P4_4531_7637221	NC_021160.1	Ca_kabuli_chr01	7637221	GG	AA	1946725368
SNP_P4_4532_7637265	NC_021160.1	Ca_kabuli_chr01	7637265	GG	AA	1946725370
SNP_P4_4533_7637301	NC_021160.1	Ca_kabuli_chr01	7637301	GG	AA	1946725372
SNP_P4_4534_7637307	NC_021160.1	Ca_kabuli_chr01	7637307	GG	AA	1946725374
SNP_P4_4535_7637329	NC_021160.1	Ca_kabuli_chr01	7637329	TT	AA	1946725376
SNP_P4_4536_7637351	NC_021160.1	Ca_kabuli_chr01	7637351	GG	AA	1946725378
SNP_P4_4537_7637396	NC_021160.1	Ca_kabuli_chr01	7637396	TT	CC	1946725380
SNP_P4_4538_7637412	NC_021160.1	Ca_kabuli_chr01	7637412	CC	GG	1946725382
SNP_P4_4539_7637498	NC_021160.1	Ca_kabuli_chr01	7637498	AA	CC	1946725384
SNP_P4_4540_7637718	NC_021160.1	Ca_kabuli_chr01	7637718	GG	CC	1946725386
SNP_P4_4541_7637751	NC_021160.1	Ca_kabuli_chr01	7637751	CC	TT	1946725388
SNP_P4_4542_7637763	NC_021160.1	Ca_kabuli_chr01	7637763	CC	TT	1946725390
SNP_P4_4543_7637973	NC_021160.1	Ca_kabuli_chr01	7637973	CC	GG	1946725392
SNP_P4_4544_7637984	NC_021160.1	Ca_kabuli_chr01	7637984	TT	AA	1946725394
SNP_P4_4545_7638361	NC_021160.1	Ca_kabuli_chr01	7638361	TT	CC	1946725396
SNP_P4_4546_7638582	NC_021160.1	Ca_kabuli_chr01	7638582	GG	AA	1946725398
SNP_P4_4547_7638663	NC_021160.1	Ca_kabuli_chr01	7638663	CC	AA	1946725400

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_4549_7638858	NC_021160.1	Ca_kabuli_chr01	7638858	TT	CC	1946725404
SNP_P4_4550_7638859	NC_021160.1	Ca_kabuli_chr01	7638859	CC	TT	1946725406
SNP_P4_4551_7638891	NC_021160.1	Ca_kabuli_chr01	7638891	CC	TT	1946725408
SNP_P4_4552_7638907	NC_021160.1	Ca_kabuli_chr01	7638907	GG	AA	1946725411
SNP_P4_4553_7639071	NC_021160.1	Ca_kabuli_chr01	7639071	CC	AA	1946725413
SNP_P4_4554_7639097	NC_021160.1	Ca_kabuli_chr01	7639097	CC	TT	1946725415
SNP_P4_4555_7640371	NC_021160.1	Ca_kabuli_chr01	7640371	AA	TT	1946725417
SNP_P4_4556_7640614	NC_021160.1	Ca_kabuli_chr01	7640614	CC	GG	1946725419
SNP_P4_4557_7641894	NC_021160.1	Ca_kabuli_chr01	7641894	GG	AA	1946725421
SNP_P4_4558_7641913	NC_021160.1	Ca_kabuli_chr01	7641913	GG	TT	1946725423
SNP_P4_4560_7643483	NC_021160.1	Ca_kabuli_chr01	7643483	CC	TT	1946725425
SNP_P4_4561_7647872	NC_021160.1	Ca_kabuli_chr01	7647872	TT	CC	1946725427
SNP_P4_4562_7648078	NC_021160.1	Ca_kabuli_chr01	7648078	TT	CC	1946725429
SNP_P4_4563_7648094	NC_021160.1	Ca_kabuli_chr01	7648094	GG	AA	1946725431
SNP_P4_4564_7648096	NC_021160.1	Ca_kabuli_chr01	7648096	GG	AA	1946725433
SNP_P4_4565_7648118	NC_021160.1	Ca_kabuli_chr01	7648118	AA	CC	1946725435
SNP_P4_4566_7648119	NC_021160.1	Ca_kabuli_chr01	7648119	AA	GG	1946725437
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SNP_P4_4568_7648220	NC_021160.1	Ca_kabuli_chr01	7648220	GG	TT	1946725441
SNP_P4_4570_7649150	NC_021160.1	Ca_kabuli_chr01	7649150	TT	AA	1946725443
SNP_P4_4572_7651709	NC_021160.1	Ca_kabuli_chr01	7651709	AA	CC	1946725445
SNP_P4_4573_7652089	NC_021160.1	Ca_kabuli_chr01	7652089	CC	TT	1946725447
SNP_P4_4574_7653116	NC_021160.1	Ca_kabuli_chr01	7653116	AA	GG	1946725449
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SNP_P4_4576_7654085	NC_021160.1	Ca_kabuli_chr01	7654085	AA	GG	1946725453
SNP_P4_4577_7654103	NC_021160.1	Ca_kabuli_chr01	7654103	CC	GG	1946725455
SNP_P4_4578_7654251	NC_021160.1	Ca_kabuli_chr01	7654251	GG	AA	1946725457
SNP_P4_4579_7654295	NC_021160.1	Ca_kabuli_chr01	7654295	AA	CC	1946725459
SNP_P4_4580_7654311	NC_021160.1	Ca_kabuli_chr01	7654311	CC	TT	1946725461
SNP_P4_4581_7654462	NC_021160.1	Ca_kabuli_chr01	7654462	CC	TT	1946725463
SNP_P4_4582_7654475	NC_021160.1	Ca_kabuli_chr01	7654475	GG	AA	1946725465
SNP_P4_4583_7654476	NC_021160.1	Ca_kabuli_chr01	7654476	GG	TT	1946725467
SNP_P4_4584_7655038	NC_021160.1	Ca_kabuli_chr01	7655038	CC	TT	1946725469
SNP_P4_4585_7655040	NC_021160.1	Ca_kabuli_chr01	7655040	CC	AA	1946725471
SNP_P4_4586_7655369	NC_021160.1	Ca_kabuli_chr01	7655369	GG	CC	1946725473
SNP_P4_4587_7655825	NC_021160.1	Ca_kabuli_chr01	7655825	GG	AA	1946725475
SNP_P4_4588_7655906	NC_021160.1	Ca_kabuli_chr01	7655906	TT	CC	1946725477
SNP_P4_4589_7656466	NC_021160.1	Ca_kabuli_chr01	7656466	AA	GG	1946725479
SNP_P4_4590_7656848	NC_021160.1	Ca_kabuli_chr01	7656848	TT	CC	1946725481
SNP_P4_4591_7657279	NC_021160.1	Ca_kabuli_chr01	7657279	AA	CC	1946725483
SNP_P4_4592_7657363	NC_021160.1	Ca_kabuli_chr01	7657363	TT	AA	1946725485

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_4594_7657380	NC_021160.1	Ca_kabuli_chr01	7657380	AA	GG	1946725489
SNP_P4_4596_7657458	NC_021160.1	Ca_kabuli_chr01	7657458	GG	AA	1946725491
SNP_P4_4597_7657491	NC_021160.1	Ca_kabuli_chr01	7657491	AA	TT	1946725494
SNP_P4_4598_7657744	NC_021160.1	Ca_kabuli_chr01	7657744	CC	AA	1946725496
SNP_P4_4599_7658107	NC_021160.1	Ca_kabuli_chr01	7658107	CC	TT	1946725498
SNP_P4_4600_7659797	NC_021160.1	Ca_kabuli_chr01	7659797	CC	GG	1946725500
SNP_P4_4601_7659831	NC_021160.1	Ca_kabuli_chr01	7659831	AA	GG	1946725502
SNP_P4_4602_7660541	NC_021160.1	Ca_kabuli_chr01	7660541	AA	CC	1946725504
SNP_P4_4603_7661186	NC_021160.1	Ca_kabuli_chr01	7661186	TT	AA	1946725506
SNP_P4_4605_7661355	NC_021160.1	Ca_kabuli_chr01	7661355	AA	GG	1946725508
SNP_P4_4606_7661375	NC_021160.1	Ca_kabuli_chr01	7661375	CC	TT	1946725510
SNP_P4_4607_7661387	NC_021160.1	Ca_kabuli_chr01	7661387	TT	CC	1946725512
SNP_P4_4608_7661390	NC_021160.1	Ca_kabuli_chr01	7661390	GG	AA	1946725514
SNP_P4_4609_7661592	NC_021160.1	Ca_kabuli_chr01	7661592	TT	CC	1946725516
SNP_P4_4610_7661656	NC_021160.1	Ca_kabuli_chr01	7661656	CC	TT	1946725518
SNP_P4_4611_7661980	NC_021160.1	Ca_kabuli_chr01	7661980	GG	AA	1946725520
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SNP_P4_4613_7663656	NC_021160.1	Ca_kabuli_chr01	7663656	AA	CC	1946725524
SNP_P4_4614_7663697	NC_021160.1	Ca_kabuli_chr01	7663697	GG	CC	1946725526
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SNP_P4_4616_7664918	NC_021160.1	Ca_kabuli_chr01	7664918	CC	TT	1946725530
SNP_P4_4617_7664958	NC_021160.1	Ca_kabuli_chr01	7664958	GG	CC	1946725532
SNP_P4_4618_7665522	NC_021160.1	Ca_kabuli_chr01	7665522	GG	AA	1946725534
SNP_P4_4619_7665939	NC_021160.1	Ca_kabuli_chr01	7665939	CC	GG	1946725536
SNP_P4_4620_7668337	NC_021160.1	Ca_kabuli_chr01	7668337	GG	AA	1946725538
SNP_P4_4621_7668692	NC_021160.1	Ca_kabuli_chr01	7668692	TT	CC	1946725541
SNP_P4_4623_7668786	NC_021160.1	Ca_kabuli_chr01	7668786	AA	GG	1946725543
SNP_P4_4624_7669641	NC_021160.1	Ca_kabuli_chr01	7669641	GG	AA	1946725545
SNP_P4_4625_7670252	NC_021160.1	Ca_kabuli_chr01	7670252	TT	CC	1946725547
SNP_P4_4626_7670256	NC_021160.1	Ca_kabuli_chr01	7670256	CC	TT	1946725549
SNP_P4_4627_7671284	NC_021160.1	Ca_kabuli_chr01	7671284	GG	AA	1946725551
SNP_P4_4628_7671516	NC_021160.1	Ca_kabuli_chr01	7671516	CC	TT	1946725553
SNP_P4_4629_7671549	NC_021160.1	Ca_kabuli_chr01	7671549	AA	CC	1946725555
SNP_P4_4630_7671562	NC_021160.1	Ca_kabuli_chr01	7671562	CC	AA	1946725557
SNP_P4_4631_7671697	NC_021160.1	Ca_kabuli_chr01	7671697	CC	TT	1946725559
SNP_P4_4632_7672549	NC_021160.1	Ca_kabuli_chr01	7672549	AA	GG	1946725561
SNP_P4_4633_7672691	NC_021160.1	Ca_kabuli_chr01	7672691	GG	AA	1946725563
SNP_P4_4634_7672694	NC_021160.1	Ca_kabuli_chr01	7672694	AA	GG	1946725565
SNP_P4_4636_7673010	NC_021160.1	Ca_kabuli_chr01	7673010	TT	AA	1946725567
SNP_P4_4637_7673047	NC_021160.1	Ca_kabuli_chr01	7673047	CC	AA	1946725569
SNP_P4_4638_7673066	NC_021160.1	Ca_kabuli_chr01	7673066	AA	GG	1946725571

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_4640_7673118	NC_021160.1	Ca_kabuli_chr01	7673118	TT	CC	1946725575
SNP_P4_4641_7674881	NC_021160.1	Ca_kabuli_chr01	7674881	TT	CC	1946725577
SNP_P4_4642_7676136	NC_021160.1	Ca_kabuli_chr01	7676136	AA	TT	1946725579
SNP_P4_4643_7676165	NC_021160.1	Ca_kabuli_chr01	7676165	CC	TT	1946725581
SNP_P4_4644_7676166	NC_021160.1	Ca_kabuli_chr01	7676166	AA	GG	1946725583
SNP_P4_4645_7676893	NC_021160.1	Ca_kabuli_chr01	7676893	AA	TT	1946725585
SNP_P4_4646_7676955	NC_021160.1	Ca_kabuli_chr01	7676955	TT	CC	1946725587
SNP_P4_4647_7676963	NC_021160.1	Ca_kabuli_chr01	7676963	CC	TT	1946725589
SNP_P4_4648_7676964	NC_021160.1	Ca_kabuli_chr01	7676964	CC	TT	1946725591
SNP_P4_4650_7677803	NC_021160.1	Ca_kabuli_chr01	7677803	AA	GG	1946725593
SNP_P4_4652_7679328	NC_021160.1	Ca_kabuli_chr01	7679328	AA	GG	1946725595
SNP_P4_4654_7679574	NC_021160.1	Ca_kabuli_chr01	7679574	AA	GG	1946725597
SNP_P4_4656_7682115	NC_021160.1	Ca_kabuli_chr01	7682115	CC	TT	1946725599
SNP_P4_4657_7685409	NC_021160.1	Ca_kabuli_chr01	7685409	CC	AA	1946725600
SNP_P4_4658_7686542	NC_021160.1	Ca_kabuli_chr01	7686542	AA	TT	1946725602
SNP_P4_4659_7686543	NC_021160.1	Ca_kabuli_chr01	7686543	CC	TT	1946725604
SNP_P4_4660_7686840	NC_021160.1	Ca_kabuli_chr01	7686840	TT	CC	1946725606
SNP_P4_4661_7686883	NC_021160.1	Ca_kabuli_chr01	7686883	CC	TT	1946725608
SNP_P4_4662_7687634	NC_021160.1	Ca_kabuli_chr01	7687634	CC	TT	1946725610
SNP_P4_4663_7687637	NC_021160.1	Ca_kabuli_chr01	7687637	CC	TT	1946725612
SNP_P4_4664_7687650	NC_021160.1	Ca_kabuli_chr01	7687650	TT	CC	1946725614
SNP_P4_4665_7687651	NC_021160.1	Ca_kabuli_chr01	7687651	CC	TT	1946725616
SNP_P4_4666_7687930	NC_021160.1	Ca_kabuli_chr01	7687930	GG	AA	1946725618
SNP_P4_4667_7687959	NC_021160.1	Ca_kabuli_chr01	7687959	CC	GG	1946725620
SNP_P4_4668_7687963	NC_021160.1	Ca_kabuli_chr01	7687963	AA	CC	1946725622
SNP_P4_4669_7687975	NC_021160.1	Ca_kabuli_chr01	7687975	AA	TT	1946725624
SNP_P4_4670_7688019	NC_021160.1	Ca_kabuli_chr01	7688019	CC	TT	1946725626
SNP_P4_4671_7688061	NC_021160.1	Ca_kabuli_chr01	7688061	CC	TT	1946725628
SNP_P4_4672_7690890	NC_021160.1	Ca_kabuli_chr01	7690890	TT	CC	1946725630
SNP_P4_4673_7692175	NC_021160.1	Ca_kabuli_chr01	7692175	TT	CC	1946725632
SNP_P4_4674_7695511	NC_021160.1	Ca_kabuli_chr01	7695511	AA	GG	1946725634
SNP_P4_4675_7699379	NC_021160.1	Ca_kabuli_chr01	7699379	CC	TT	1946725636
SNP_P4_4676_7700003	NC_021160.1	Ca_kabuli_chr01	7700003	AA	TT	1946725638
SNP_P4_4677_7701657	NC_021160.1	Ca_kabuli_chr01	7701657	AA	TT	1946725640
SNP_P4_4678_7701659	NC_021160.1	Ca_kabuli_chr01	7701659	AA	TT	1946725641
SNP_P4_4679_7701661	NC_021160.1	Ca_kabuli_chr01	7701661	TT	CC	1946725643
SNP_P4_4680_7701667	NC_021160.1	Ca_kabuli_chr01	7701667	AA	GG	1946725645
SNP_P4_4681_7701708	NC_021160.1	Ca_kabuli_chr01	7701708	TT	AA	1946725647
SNP_P4_4682_7701833	NC_021160.1	Ca_kabuli_chr01	7701833	AA	GG	1946725649
SNP_P4_4684_7702196	NC_021160.1	Ca_kabuli_chr01	7702196	AA	TT	1946725651
SNP_P4_4685_7703430	NC_021160.1	Ca_kabuli_chr01	7703430	CC	GG	1946725653

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_4687_7703706	NC_021160.1	Ca_kabuli_chr01	7703706	GG	AA	1946725656
SNP_P4_4688_7703707	NC_021160.1	Ca_kabuli_chr01	7703707	CC	TT	1946725658
SNP_P4_4689_7703718	NC_021160.1	Ca_kabuli_chr01	7703718	CC	TT	1946725660
SNP_P4_4690_7703741	NC_021160.1	Ca_kabuli_chr01	7703741	AA	TT	1946725662
SNP_P4_4691_7703749	NC_021160.1	Ca_kabuli_chr01	7703749	GG	AA	1946725664
SNP_P4_4692_7703773	NC_021160.1	Ca_kabuli_chr01	7703773	AA	GG	1946725666
SNP_P4_4693_7703904	NC_021160.1	Ca_kabuli_chr01	7703904	GG	AA	1946725668
SNP_P4_4694_7703919	NC_021160.1	Ca_kabuli_chr01	7703919	AA	GG	1946725670
SNP_P4_4695_7703936	NC_021160.1	Ca_kabuli_chr01	7703936	AA	GG	1946725672
SNP_P4_4696_7703937	NC_021160.1	Ca_kabuli_chr01	7703937	GG	AA	1946725674
SNP_P4_4697_7703989	NC_021160.1	Ca_kabuli_chr01	7703989	GG	AA	1946725676
SNP_P4_4698_7704038	NC_021160.1	Ca_kabuli_chr01	7704038	CC	GG	1946725678
SNP_P4_4699_7704207	NC_021160.1	Ca_kabuli_chr01	7704207	AA	TT	1946725680
SNP_P4_4700_7704217	NC_021160.1	Ca_kabuli_chr01	7704217	AA	GG	1946725682
SNP_P4_4701_7704416	NC_021160.1	Ca_kabuli_chr01	7704416	AA	GG	1946725684
SNP_P4_4702_7704439	NC_021160.1	Ca_kabuli_chr01	7704439	CC	TT	1946725686
SNP_P4_4703_7704470	NC_021160.1	Ca_kabuli_chr01	7704470	GG	AA	1946725688
SNP_P4_4704_7704482	NC_021160.1	Ca_kabuli_chr01	7704482	CC	AA	1946725690
SNP_P4_4705_7704487	NC_021160.1	Ca_kabuli_chr01	7704487	TT	AA	1946725692
SNP_P4_4707_7705657	NC_021160.1	Ca_kabuli_chr01	7705657	GG	AA	1946725694
SNP_P4_4708_7705701	NC_021160.1	Ca_kabuli_chr01	7705701	TT	CC	1946725696
SNP_P4_4709_7705926	NC_021160.1	Ca_kabuli_chr01	7705926	GG	CC	1946725698
SNP_P4_4710_7706913	NC_021160.1	Ca_kabuli_chr01	7706913	GG	AA	1946725700
SNP_P4_4711_7706914	NC_021160.1	Ca_kabuli_chr01	7706914	AA	TT	1946725702
SNP_P4_4712_7707178	NC_021160.1	Ca_kabuli_chr01	7707178	TT	AA	1946725704
SNP_P4_4713_7707689	NC_021160.1	Ca_kabuli_chr01	7707689	TT	CC	1946725706
SNP_P4_4714_7707692	NC_021160.1	Ca_kabuli_chr01	7707692	TT	GG	1946725708
SNP_P4_4715_7707733	NC_021160.1	Ca_kabuli_chr01	7707733	TT	AA	1946725710
SNP_P4_4716_7710554	NC_021160.1	Ca_kabuli_chr01	7710554	GG	TT	1946725711
SNP_P4_4717_7710613	NC_021160.1	Ca_kabuli_chr01	7710613	GG	AA	1946725713
SNP_P4_4718_7711696	NC_021160.1	Ca_kabuli_chr01	7711696	TT	AA	1946725716
SNP_P4_4719_7712277	NC_021160.1	Ca_kabuli_chr01	7712277	TT	AA	1946725718
SNP_P4_4720_7712303	NC_021160.1	Ca_kabuli_chr01	7712303	CC	TT	1946725720
SNP_P4_4721_7712376	NC_021160.1	Ca_kabuli_chr01	7712376	TT	CC	1946725722
SNP_P4_4722_7712469	NC_021160.1	Ca_kabuli_chr01	7712469	AA	GG	1946725724
SNP_P4_4723_7712470	NC_021160.1	Ca_kabuli_chr01	7712470	AA	TT	1946725726
SNP_P4_4724_7712485	NC_021160.1	Ca_kabuli_chr01	7712485	TT	CC	1946725728
SNP_P4_4725_7712590	NC_021160.1	Ca_kabuli_chr01	7712590	TT	CC	1946725730
SNP_P4_4726_7712606	NC_021160.1	Ca_kabuli_chr01	7712606	GG	AA	1946725732
SNP_P4_4727_7712804	NC_021160.1	Ca_kabuli_chr01	7712804	TT	GG	1946725734
SNP_P4_4728_7713071	NC_021160.1	Ca_kabuli_chr01	7713071	CC	TT	1946725736

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_4730_7713352	NC_021160.1	Ca_kabuli_chr01	7713352	GG	TT	1946725740
SNP_P4_4731_7713353	NC_021160.1	Ca_kabuli_chr01	7713353	TT	AA	1946725742
SNP_P4_4732_7713372	NC_021160.1	Ca_kabuli_chr01	7713372	TT	AA	1946725744
SNP_P4_4734_7713725	NC_021160.1	Ca_kabuli_chr01	7713725	CC	GG	1946725746
SNP_P4_4735_7714585	NC_021160.1	Ca_kabuli_chr01	7714585	GG	AA	1946725748
SNP_P4_4736_7716234	NC_021160.1	Ca_kabuli_chr01	7716234	GG	AA	1946725750
SNP_P4_4737_7720447	NC_021160.1	Ca_kabuli_chr01	7720447	CC	TT	1946725752
SNP_P4_4738_7720450	NC_021160.1	Ca_kabuli_chr01	7720450	AA	TT	1946725754
SNP_P4_4740_7720685	NC_021160.1	Ca_kabuli_chr01	7720685	CC	TT	1946725756
SNP_P4_4741_7720724	NC_021160.1	Ca_kabuli_chr01	7720724	TT	CC	1946725758
SNP_P4_4742_7720750	NC_021160.1	Ca_kabuli_chr01	7720750	AA	GG	1946725760
SNP_P4_4744_7721071	NC_021160.1	Ca_kabuli_chr01	7721071	TT	CC	1946725762
SNP_P4_4745_7722844	NC_021160.1	Ca_kabuli_chr01	7722844	CC	TT	1946725764
SNP_P4_4746_7724319	NC_021160.1	Ca_kabuli_chr01	7724319	CC	TT	1946725766
SNP_P4_4747_7725136	NC_021160.1	Ca_kabuli_chr01	7725136	GG	CC	1946725768
SNP_P4_4748_7725154	NC_021160.1	Ca_kabuli_chr01	7725154	CC	TT	1946725770
SNP_P4_4749_7725374	NC_021160.1	Ca_kabuli_chr01	7725374	CC	TT	1946725772
SNP_P4_4750_7725610	NC_021160.1	Ca_kabuli_chr01	7725610	TT	AA	1946725774
SNP_P4_4751_7726090	NC_021160.1	Ca_kabuli_chr01	7726090	GG	AA	1946725776
SNP_P4_4755_7726689	NC_021160.1	Ca_kabuli_chr01	7726689	GG	AA	1946725778
SNP_P4_4756_7728497	NC_021160.1	Ca_kabuli_chr01	7728497	AA	GG	1946725780
SNP_P4_4757_7728925	NC_021160.1	Ca_kabuli_chr01	7728925	GG	AA	1946725782
SNP_P4_4758_7729033	NC_021160.1	Ca_kabuli_chr01	7729033	TT	CC	1946725784
SNP_P4_4759_7729034	NC_021160.1	Ca_kabuli_chr01	7729034	GG	TT	1946725786
SNP_P4_4760_7729038	NC_021160.1	Ca_kabuli_chr01	7729038	GG	AA	1946725788
SNP_P4_4761_7729076	NC_021160.1	Ca_kabuli_chr01	7729076	GG	AA	1946725790
SNP_P4_4762_7729697	NC_021160.1	Ca_kabuli_chr01	7729697	GG	AA	1946725792
SNP_P4_4763_7729816	NC_021160.1	Ca_kabuli_chr01	7729816	TT	CC	1946725794
SNP_P4_4764_7730612	NC_021160.1	Ca_kabuli_chr01	7730612	GG	AA	1946725796
SNP_P4_4765_7730616	NC_021160.1	Ca_kabuli_chr01	7730616	CC	AA	1946725798
SNP_P4_4766_7730715	NC_021160.1	Ca_kabuli_chr01	7730715	TT	CC	1946725800
SNP_P4_4767_7730884	NC_021160.1	Ca_kabuli_chr01	7730884	TT	CC	1946725802
SNP_P4_4768_7730979	NC_021160.1	Ca_kabuli_chr01	7730979	GG	AA	1946725804
SNP_P4_4769_7730994	NC_021160.1	Ca_kabuli_chr01	7730994	GG	TT	1946725806
SNP_P4_4770_7731070	NC_021160.1	Ca_kabuli_chr01	7731070	CC	TT	1946725807
SNP_P4_4771_7731089	NC_021160.1	Ca_kabuli_chr01	7731089	AA	TT	1946725809
SNP_P4_4772_7731203	NC_021160.1	Ca_kabuli_chr01	7731203	AA	TT	1946725811
SNP_P4_4773_7731329	NC_021160.1	Ca_kabuli_chr01	7731329	CC	GG	1946725813
SNP_P4_4774_7731810	NC_021160.1	Ca_kabuli_chr01	7731810	CC	TT	1946725815
SNP_P4_4775_7731819	NC_021160.1	Ca_kabuli_chr01	7731819	GG	TT	1946725817
SNP_P4_4776_7732997	NC_021160.1	Ca_kabuli_chr01	7732997	CC	TT	1946725819

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_4778_7733470	NC_021160.1	Ca_kabuli_chr01	7733470	GG	AA	1946725823
SNP_P4_4779_7733590	NC_021160.1	Ca_kabuli_chr01	7733590	CC	AA	1946725825
SNP_P4_4780_7733740	NC_021160.1	Ca_kabuli_chr01	7733740	CC	TT	1946725827
SNP_P4_4781_7734168	NC_021160.1	Ca_kabuli_chr01	7734168	CC	AA	1946725829
SNP_P4_4782_7734221	NC_021160.1	Ca_kabuli_chr01	7734221	AA	TT	1946725831
SNP_P4_4783_7741187	NC_021160.1	Ca_kabuli_chr01	7741187	CC	TT	1946725833
SNP_P4_4785_7745740	NC_021160.1	Ca_kabuli_chr01	7745740	GG	CC	1946725835
SNP_P4_4786_7745743	NC_021160.1	Ca_kabuli_chr01	7745743	AA	CC	1946725837
SNP_P4_4787_7745754	NC_021160.1	Ca_kabuli_chr01	7745754	TT	CC	1946725839
SNP_P4_4788_7745767	NC_021160.1	Ca_kabuli_chr01	7745767	CC	TT	1946725841
SNP_P4_4789_7745785	NC_021160.1	Ca_kabuli_chr01	7745785	AA	GG	1946725843
SNP_P4_4790_7745810	NC_021160.1	Ca_kabuli_chr01	7745810	CC	AA	1946725845
SNP_P4_4791_7746050	NC_021160.1	Ca_kabuli_chr01	7746050	CC	AA	1946725847
SNP_P4_4792_7746285	NC_021160.1	Ca_kabuli_chr01	7746285	AA	CC	1946725849
SNP_P4_4793_7746325	NC_021160.1	Ca_kabuli_chr01	7746325	GG	AA	1946725851
SNP_P4_4794_7746358	NC_021160.1	Ca_kabuli_chr01	7746358	TT	CC	1946725853
SNP_P4_4795_7746363	NC_021160.1	Ca_kabuli_chr01	7746363	GG	CC	1946725855
SNP_P4_4796_7746444	NC_021160.1	Ca_kabuli_chr01	7746444	AA	GG	1946725857
SNP_P4_4797_7746448	NC_021160.1	Ca_kabuli_chr01	7746448	TT	CC	1946725859
SNP_P4_4798_7746471	NC_021160.1	Ca_kabuli_chr01	7746471	AA	CC	1946725861
SNP_P4_4799_7746622	NC_021160.1	Ca_kabuli_chr01	7746622	GG	AA	1946725863
SNP_P4_4800_7746639	NC_021160.1	Ca_kabuli_chr01	7746639	AA	GG	1946725865
SNP_P4_4801_7746786	NC_021160.1	Ca_kabuli_chr01	7746786	AA	GG	1946725867
SNP_P4_4802_7746827	NC_021160.1	Ca_kabuli_chr01	7746827	AA	TT	1946725869
SNP_P4_4803_7746938	NC_021160.1	Ca_kabuli_chr01	7746938	CC	AA	1946725871
SNP_P4_4804_7748376	NC_021160.1	Ca_kabuli_chr01	7748376	AA	GG	1946725873
SNP_P4_4805_7748382	NC_021160.1	Ca_kabuli_chr01	7748382	AA	GG	1946725875
SNP_P4_4806_7748383	NC_021160.1	Ca_kabuli_chr01	7748383	AA	CC	1946725877
SNP_P4_4807_7748400	NC_021160.1	Ca_kabuli_chr01	7748400	CC	TT	1946725879
SNP_P4_4808_7748404	NC_021160.1	Ca_kabuli_chr01	7748404	CC	TT	1946725881
SNP_P4_4810_7748640	NC_021160.1	Ca_kabuli_chr01	7748640	AA	GG	1946725883
SNP_P4_4811_7749545	NC_021160.1	Ca_kabuli_chr01	7749545	CC	GG	1946725885
SNP_P4_4812_7749725	NC_021160.1	Ca_kabuli_chr01	7749725	GG	CC	1946725887
SNP_P4_4813_7749882	NC_021160.1	Ca_kabuli_chr01	7749882	AA	TT	1946725889
SNP_P4_4814_7750068	NC_021160.1	Ca_kabuli_chr01	7750068	GG	AA	1946725891
SNP_P4_4817_7751965	NC_021160.1	Ca_kabuli_chr01	7751965	GG	CC	1946725893
SNP_P4_4818_7752405	NC_021160.1	Ca_kabuli_chr01	7752405	TT	CC	1946725895
SNP_P4_4819_7752424	NC_021160.1	Ca_kabuli_chr01	7752424	GG	AA	1946725897
SNP_P4_4820_7752507	NC_021160.1	Ca_kabuli_chr01	7752507	AA	GG	1946725900
SNP_P4_4821_7752718	NC_021160.1	Ca_kabuli_chr01	7752718	CC	AA	1946725902
SNP_P4_4822_7752977	NC_021160.1	Ca_kabuli_chr01	7752977	GG	AA	1946725904

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_4824_7753042	NC_021160.1	Ca_kabuli_chr01	7753042	TT	GG	1946725908
SNP_P4_4825_7753188	NC_021160.1	Ca_kabuli_chr01	7753188	TT	CC	1946725910
SNP_P4_4826_7753225	NC_021160.1	Ca_kabuli_chr01	7753225	AA	GG	1946725912
SNP_P4_4827_7753369	NC_021160.1	Ca_kabuli_chr01	7753369	TT	CC	1946725914
SNP_P4_4828_7753417	NC_021160.1	Ca_kabuli_chr01	7753417	TT	GG	1946725916
SNP_P4_4829_7753501	NC_021160.1	Ca_kabuli_chr01	7753501	TT	CC	1946725918
SNP_P4_4830_7753688	NC_021160.1	Ca_kabuli_chr01	7753688	GG	CC	1946725920
SNP_P4_4831_7753772	NC_021160.1	Ca_kabuli_chr01	7753772	TT	GG	1946725922
SNP_P4_4832_7753862	NC_021160.1	Ca_kabuli_chr01	7753862	TT	CC	1946725924
SNP_P4_4833_7754605	NC_021160.1	Ca_kabuli_chr01	7754605	GG	AA	1946725926
SNP_P4_4834_7754607	NC_021160.1	Ca_kabuli_chr01	7754607	GG	AA	1946725928
SNP_P4_4835_7756902	NC_021160.1	Ca_kabuli_chr01	7756902	GG	AA	1946725930
SNP_P4_4836_7760516	NC_021160.1	Ca_kabuli_chr01	7760516	TT	CC	1946725932
SNP_P4_4837_7760728	NC_021160.1	Ca_kabuli_chr01	7760728	CC	TT	1946725934
SNP_P4_4838_7763052	NC_021160.1	Ca_kabuli_chr01	7763052	CC	TT	1946725936
SNP_P4_4839_7763076	NC_021160.1	Ca_kabuli_chr01	7763076	TT	AA	1946725938
SNP_P4_4840_7763378	NC_021160.1	Ca_kabuli_chr01	7763378	TT	AA	1946725940
SNP_P4_4842_7773056	NC_021160.1	Ca_kabuli_chr01	7773056	AA	GG	1946725943
SNP_P4_4843_7773151	NC_021160.1	Ca_kabuli_chr01	7773151	TT	CC	1946725945
SNP_P4_4844_7773183	NC_021160.1	Ca_kabuli_chr01	7773183	AA	GG	1946725947
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SNP_P4_4846_7773402	NC_021160.1	Ca_kabuli_chr01	7773402	TT	CC	1946725951
SNP_P4_4847_7773799	NC_021160.1	Ca_kabuli_chr01	7773799	CC	TT	1946725953
SNP_P4_4848_7774610	NC_021160.1	Ca_kabuli_chr01	7774610	AA	TT	1946725955
SNP_P4_4849_7774982	NC_021160.1	Ca_kabuli_chr01	7774982	GG	AA	1946725957
SNP_P4_4850_7775039	NC_021160.1	Ca_kabuli_chr01	7775039	GG	AA	1946725959
SNP_P4_4852_7775145	NC_021160.1	Ca_kabuli_chr01	7775145	TT	CC	1946725961
SNP_P4_4853_7775162	NC_021160.1	Ca_kabuli_chr01	7775162	CC	TT	1946725963
SNP_P4_4854_7775178	NC_021160.1	Ca_kabuli_chr01	7775178	TT	CC	1946725966
SNP_P4_4855_7775191	NC_021160.1	Ca_kabuli_chr01	7775191	CC	AA	1946725968
SNP_P4_4856_7775342	NC_021160.1	Ca_kabuli_chr01	7775342	GG	TT	1946725970
SNP_P4_4857_7775385	NC_021160.1	Ca_kabuli_chr01	7775385	TT	GG	1946725972
SNP_P4_4858_7776525	NC_021160.1	Ca_kabuli_chr01	7776525	AA	TT	1946725974
SNP_P4_4859_7776917	NC_021160.1	Ca_kabuli_chr01	7776917	GG	TT	1946725976
SNP_P4_4860_7777580	NC_021160.1	Ca_kabuli_chr01	7777580	TT	GG	1946725978
SNP_P4_4861_7777585	NC_021160.1	Ca_kabuli_chr01	7777585	AA	TT	1946725980
SNP_P4_4862_7777649	NC_021160.1	Ca_kabuli_chr01	7777649	TT	CC	1946725982
SNP_P4_4863_7777658	NC_021160.1	Ca_kabuli_chr01	7777658	GG	TT	1946725984
SNP_P4_4864_7777823	NC_021160.1	Ca_kabuli_chr01	7777823	AA	TT	1946725986
SNP_P4_4865_7777845	NC_021160.1	Ca_kabuli_chr01	7777845	AA	GG	1946725988
SNP_P4_4866_7777964	NC_021160.1	Ca_kabuli_chr01	7777964	CC	AA	1946725990

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_4868_7778082	NC_021160.1	Ca_kabuli_chr01	7778082	AA	GG	1946725994
SNP_P4_4869_7778083	NC_021160.1	Ca_kabuli_chr01	7778083	CC	TT	1946725996
SNP_P4_4870_7778084	NC_021160.1	Ca_kabuli_chr01	7778084	TT	CC	1946725998
SNP_P4_4871_7778098	NC_021160.1	Ca_kabuli_chr01	7778098	AA	TT	1946726000
SNP_P4_4872_7778874	NC_021160.1	Ca_kabuli_chr01	7778874	TT	CC	1946726002
SNP_P4_4873_7778887	NC_021160.1	Ca_kabuli_chr01	7778887	TT	AA	1946726004
SNP_P4_4874_7778896	NC_021160.1	Ca_kabuli_chr01	7778896	CC	AA	1946726006
SNP_P4_4875_7779006	NC_021160.1	Ca_kabuli_chr01	7779006	CC	GG	1946726008
SNP_P4_4877_7781861	NC_021160.1	Ca_kabuli_chr01	7781861	AA	GG	1946726010
SNP_P4_4878_7781942	NC_021160.1	Ca_kabuli_chr01	7781942	GG	TT	1946726012
SNP_P4_4880_7782512	NC_021160.1	Ca_kabuli_chr01	7782512	AA	TT	1946726014
SNP_P4_4881_7782514	NC_021160.1	Ca_kabuli_chr01	7782514	CC	TT	1946726016
SNP_P4_4882_7782518	NC_021160.1	Ca_kabuli_chr01	7782518	TT	AA	1946726018
SNP_P4_4883_7783016	NC_021160.1	Ca_kabuli_chr01	7783016	CC	TT	1946726020
SNP_P4_4884_7783104	NC_021160.1	Ca_kabuli_chr01	7783104	GG	AA	1946726022
SNP_P4_4885_7783108	NC_021160.1	Ca_kabuli_chr01	7783108	AA	GG	1946726024
SNP_P4_4887_7783250	NC_021160.1	Ca_kabuli_chr01	7783250	TT	GG	1946726026
SNP_P4_4888_7783313	NC_021160.1	Ca_kabuli_chr01	7783313	TT	AA	1946726028
SNP_P4_4889_7783314	NC_021160.1	Ca_kabuli_chr01	7783314	TT	CC	1946726030
SNP_P4_4890_7783343	NC_021160.1	Ca_kabuli_chr01	7783343	TT	GG	1946726032
SNP_P4_4892_7783386	NC_021160.1	Ca_kabuli_chr01	7783386	TT	CC	1946726034
SNP_P4_4893_7783388	NC_021160.1	Ca_kabuli_chr01	7783388	TT	CC	1946726036
SNP_P4_4894_7783930	NC_021160.1	Ca_kabuli_chr01	7783930	CC	GG	1946726038
SNP_P4_4895_7784894	NC_021160.1	Ca_kabuli_chr01	7784894	CC	TT	1946726040
SNP_P4_4896_7784910	NC_021160.1	Ca_kabuli_chr01	7784910	TT	CC	1946726042
SNP_P4_4897_7784964	NC_021160.1	Ca_kabuli_chr01	7784964	CC	AA	1946726044
SNP_P4_4898_7785060	NC_021160.1	Ca_kabuli_chr01	7785060	TT	CC	1946726046
SNP_P4_4899_7785150	NC_021160.1	Ca_kabuli_chr01	7785150	AA	GG	1946726048
SNP_P4_4900_7785262	NC_021160.1	Ca_kabuli_chr01	7785262	CC	AA	1946726050
SNP_P4_4901_7785279	NC_021160.1	Ca_kabuli_chr01	7785279	CC	GG	1946726052
SNP_P4_4902_7785391	NC_021160.1	Ca_kabuli_chr01	7785391	TT	CC	1946726054
SNP_P4_4903_7786602	NC_021160.1	Ca_kabuli_chr01	7786602	CC	GG	1946726056
SNP_P4_4905_7787899	NC_021160.1	Ca_kabuli_chr01	7787899	CC	TT	1946726058
SNP_P4_4906_7788101	NC_021160.1	Ca_kabuli_chr01	7788101	GG	CC	1946726060
SNP_P4_4907_7788235	NC_021160.1	Ca_kabuli_chr01	7788235	AA	CC	1946726062
SNP_P4_4908_7788253	NC_021160.1	Ca_kabuli_chr01	7788253	TT	CC	1946726064
SNP_P4_4909_7789390	NC_021160.1	Ca_kabuli_chr01	7789390	AA	GG	1946726066
SNP_P4_4910_7789398	NC_021160.1	Ca_kabuli_chr01	7789398	CC	TT	1946726068
SNP_P4_4911_7789422	NC_021160.1	Ca_kabuli_chr01	7789422	AA	GG	1946726070
SNP_P4_4912_7789430	NC_021160.1	Ca_kabuli_chr01	7789430	TT	CC	1946726072
SNP_P4_4913_7789464	NC_021160.1	Ca_kabuli_chr01	7789464	GG	AA	1946726074

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_4915_7792596	NC_021160.1	Ca_kabuli_chr01	7792596	TT	GG	1946726078
SNP_P4_4916_7792608	NC_021160.1	Ca_kabuli_chr01	7792608	TT	CC	1946726080
SNP_P4_4917_7792628	NC_021160.1	Ca_kabuli_chr01	7792628	TT	CC	1946726083
SNP_P4_4918_7803044	NC_021160.1	Ca_kabuli_chr01	7803044	TT	CC	1946726085
SNP_P4_4919_7805649	NC_021160.1	Ca_kabuli_chr01	7805649	CC	TT	1946726087
SNP_P4_4920_7806052	NC_021160.1	Ca_kabuli_chr01	7806052	AA	GG	1946726089
SNP_P4_4921_7806398	NC_021160.1	Ca_kabuli_chr01	7806398	CC	TT	1946726091
SNP_P4_4922_7806612	NC_021160.1	Ca_kabuli_chr01	7806612	CC	TT	1946726093
SNP_P4_4923_7806638	NC_021160.1	Ca_kabuli_chr01	7806638	TT	GG	1946726095
SNP_P4_4924_7806645	NC_021160.1	Ca_kabuli_chr01	7806645	TT	AA	1946726097
SNP_P4_4925_7806917	NC_021160.1	Ca_kabuli_chr01	7806917	AA	TT	1946726099
SNP_P4_4926_7807749	NC_021160.1	Ca_kabuli_chr01	7807749	GG	AA	1946726101
SNP_P4_4927_7809854	NC_021160.1	Ca_kabuli_chr01	7809854	GG	AA	1946726103
SNP_P4_4929_7811026	NC_021160.1	Ca_kabuli_chr01	7811026	CC	GG	1946726105
SNP_P4_4930_7811890	NC_021160.1	Ca_kabuli_chr01	7811890	CC	TT	1946726107
SNP_P4_4931_7811891	NC_021160.1	Ca_kabuli_chr01	7811891	AA	GG	1946726109
SNP_P4_4932_7812464	NC_021160.1	Ca_kabuli_chr01	7812464	CC	GG	1946726112
SNP_P4_4933_7813576	NC_021160.1	Ca_kabuli_chr01	7813576	AA	GG	1946726114
SNP_P4_4935_7816569	NC_021160.1	Ca_kabuli_chr01	7816569	GG	AA	1946726116
SNP_P4_4936_7817238	NC_021160.1	Ca_kabuli_chr01	7817238	AA	GG	1946726118
SNP_P4_4937_7819432	NC_021160.1	Ca_kabuli_chr01	7819432	CC	TT	1946726120
SNP_P4_4938_7819487	NC_021160.1	Ca_kabuli_chr01	7819487	GG	CC	1946726122
SNP_P4_4939_7819975	NC_021160.1	Ca_kabuli_chr01	7819975	TT	CC	1946726124
SNP_P4_4940_7820167	NC_021160.1	Ca_kabuli_chr01	7820167	TT	CC	1946726126
SNP_P4_4941_7820181	NC_021160.1	Ca_kabuli_chr01	7820181	AA	TT	1946726128
SNP_P4_4942_7821433	NC_021160.1	Ca_kabuli_chr01	7821433	CC	AA	1946726130
SNP_P4_4943_7821473	NC_021160.1	Ca_kabuli_chr01	7821473	GG	TT	1946726132
SNP_P4_4944_7823316	NC_021160.1	Ca_kabuli_chr01	7823316	AA	GG	1946726134
SNP_P4_4946_7824292	NC_021160.1	Ca_kabuli_chr01	7824292	CC	AA	1946726136
SNP_P4_4947_7824316	NC_021160.1	Ca_kabuli_chr01	7824316	GG	AA	1946726138
SNP_P4_4949_7824467	NC_021160.1	Ca_kabuli_chr01	7824467	AA	TT	1946726140
SNP_P4_4950_7824652	NC_021160.1	Ca_kabuli_chr01	7824652	CC	GG	1946726142
SNP_P4_4951_7836859	NC_021160.1	Ca_kabuli_chr01	7836859	GG	TT	1946726144
SNP_P4_4952_7840640	NC_021160.1	Ca_kabuli_chr01	7840640	GG	TT	1946726146
SNP_P4_4953_7840890	NC_021160.1	Ca_kabuli_chr01	7840890	TT	GG	1946726148
SNP_P4_4954_7841694	NC_021160.1	Ca_kabuli_chr01	7841694	GG	AA	1946726150
SNP_P4_4955_7843862	NC_021160.1	Ca_kabuli_chr01	7843862	GG	AA	1946726152
SNP_P4_4956_7844788	NC_021160.1	Ca_kabuli_chr01	7844788	CC	TT	1946726154
SNP_P4_4957_7846989	NC_021160.1	Ca_kabuli_chr01	7846989	CC	AA	1946726157
SNP_P4_4958_7847161	NC_021160.1	Ca_kabuli_chr01	7847161	AA	GG	1946726159
SNP_P4_4959_7847499	NC_021160.1	Ca_kabuli_chr01	7847499	GG	AA	1946726161

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_4961_7847568	NC_021160.1	Ca_kabuli_chr01	7847568	GG	AA	1946726165
SNP_P4_4962_7847583	NC_021160.1	Ca_kabuli_chr01	7847583	CC	GG	1946726167
SNP_P4_4963_7854301	NC_021160.1	Ca_kabuli_chr01	7854301	AA	GG	1946726169
SNP_P4_4964_7858531	NC_021160.1	Ca_kabuli_chr01	7858531	AA	GG	1946726171
SNP_P4_4966_7858582	NC_021160.1	Ca_kabuli_chr01	7858582	CC	AA	1946726173
SNP_P4_4967_7860023	NC_021160.1	Ca_kabuli_chr01	7860023	AA	TT	1946726175
SNP_P4_4968_7862818	NC_021160.1	Ca_kabuli_chr01	7862818	GG	TT	1946726177
SNP_P4_4969_7862819	NC_021160.1	Ca_kabuli_chr01	7862819	AA	GG	1946726179
SNP_P4_4970_7862838	NC_021160.1	Ca_kabuli_chr01	7862838	GG	AA	1946726181
SNP_P4_4971_7862848	NC_021160.1	Ca_kabuli_chr01	7862848	GG	AA	1946726183
SNP_P4_4972_7862870	NC_021160.1	Ca_kabuli_chr01	7862870	GG	TT	1946726185
SNP_P4_4973_7862871	NC_021160.1	Ca_kabuli_chr01	7862871	AA	GG	1946726187
SNP_P4_4974_7863111	NC_021160.1	Ca_kabuli_chr01	7863111	TT	CC	1946726189
SNP_P4_4975_7863112	NC_021160.1	Ca_kabuli_chr01	7863112	TT	AA	1946726191
SNP_P4_4976_7863183	NC_021160.1	Ca_kabuli_chr01	7863183	TT	AA	1946726193
SNP_P4_4977_7863194	NC_021160.1	Ca_kabuli_chr01	7863194	TT	CC	1946726195
SNP_P4_4978_7863205	NC_021160.1	Ca_kabuli_chr01	7863205	GG	AA	1946726197
SNP_P4_4979_7863250	NC_021160.1	Ca_kabuli_chr01	7863250	GG	AA	1946726199
SNP_P4_4981_7865781	NC_021160.1	Ca_kabuli_chr01	7865781	TT	CC	1946726201
SNP_P4_4982_7865837	NC_021160.1	Ca_kabuli_chr01	7865837	AA	CC	1946726203
SNP_P4_4983_7865863	NC_021160.1	Ca_kabuli_chr01	7865863	AA	CC	1946726205
SNP_P4_4984_7865938	NC_021160.1	Ca_kabuli_chr01	7865938	GG	CC	1946726207
SNP_P4_4985_7865951	NC_021160.1	Ca_kabuli_chr01	7865951	TT	CC	1946726209
SNP_P4_4986_7865993	NC_021160.1	Ca_kabuli_chr01	7865993	TT	AA	1946726211
SNP_P4_4987_7866015	NC_021160.1	Ca_kabuli_chr01	7866015	GG	CC	1946726214
SNP_P4_4988_7866041	NC_021160.1	Ca_kabuli_chr01	7866041	AA	TT	1946726216
SNP_P4_4989_7866043	NC_021160.1	Ca_kabuli_chr01	7866043	TT	GG	1946726218
SNP_P4_4990_7866044	NC_021160.1	Ca_kabuli_chr01	7866044	GG	AA	1946726220
SNP_P4_4991_7866051	NC_021160.1	Ca_kabuli_chr01	7866051	GG	AA	1946726222
SNP_P4_4992_7866066	NC_021160.1	Ca_kabuli_chr01	7866066	GG	TT	1946726224
SNP_P4_4993_7866099	NC_021160.1	Ca_kabuli_chr01	7866099	CC	TT	1946726226
SNP_P4_4994_7866103	NC_021160.1	Ca_kabuli_chr01	7866103	GG	AA	1946726228
SNP_P4_4995_7866108	NC_021160.1	Ca_kabuli_chr01	7866108	GG	AA	1946726230
SNP_P4_4996_7866113	NC_021160.1	Ca_kabuli_chr01	7866113	CC	AA	1946726232
SNP_P4_4997_7866132	NC_021160.1	Ca_kabuli_chr01	7866132	CC	GG	1946726234
SNP_P4_4998_7866135	NC_021160.1	Ca_kabuli_chr01	7866135	AA	TT	1946726236
SNP_P4_4999_7866140	NC_021160.1	Ca_kabuli_chr01	7866140	GG	AA	1946726238
SNP_P4_5000_7866155	NC_021160.1	Ca_kabuli_chr01	7866155	TT	CC	1946726240
SNP_P4_5001_7866306	NC_021160.1	Ca_kabuli_chr01	7866306	TT	CC	1946726242
SNP_P4_5002_7866325	NC_021160.1	Ca_kabuli_chr01	7866325	GG	AA	1946726244
SNP_P4_5003_7866368	NC_021160.1	Ca_kabuli_chr01	7866368	TT	GG	1946726246

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_5005_7866778	NC_021160.1	Ca_kabuli_chr01	7866778	AA	GG	1946726250
SNP_P4_5006_7868712	NC_021160.1	Ca_kabuli_chr01	7868712	CC	AA	1946726252
SNP_P4_5007_7868784	NC_021160.1	Ca_kabuli_chr01	7868784	TT	CC	1946726254
SNP_P4_5008_7870637	NC_021160.1	Ca_kabuli_chr01	7870637	AA	CC	1946726256
SNP_P4_5009_7870694	NC_021160.1	Ca_kabuli_chr01	7870694	CC	GG	1946726258
SNP_P4_5010_7874610	NC_021160.1	Ca_kabuli_chr01	7874610	GG	AA	1946726260
SNP_P4_5011_7874664	NC_021160.1	Ca_kabuli_chr01	7874664	TT	CC	1946726262
SNP_P4_5012_7874668	NC_021160.1	Ca_kabuli_chr01	7874668	TT	CC	1946726264
SNP_P4_5013_7884157	NC_021160.1	Ca_kabuli_chr01	7884157	TT	GG	1946726266
SNP_P4_5015_7884593	NC_021160.1	Ca_kabuli_chr01	7884593	CC	TT	1946726267
SNP_P4_5016_7884872	NC_021160.1	Ca_kabuli_chr01	7884872	AA	GG	1946726268
SNP_P4_5017_7885369	NC_021160.1	Ca_kabuli_chr01	7885369	TT	CC	1946726269
SNP_P4_5018_7885370	NC_021160.1	Ca_kabuli_chr01	7885370	CC	AA	1946726271
SNP_P4_5019_7885431	NC_021160.1	Ca_kabuli_chr01	7885431	AA	CC	1946726273
SNP_P4_5021_7886020	NC_021160.1	Ca_kabuli_chr01	7886020	AA	CC	1946726275
SNP_P4_5022_7886096	NC_021160.1	Ca_kabuli_chr01	7886096	AA	GG	1946726277
SNP_P4_5023_7887370	NC_021160.1	Ca_kabuli_chr01	7887370	AA	GG	1946726279
SNP_P4_5024_7888155	NC_021160.1	Ca_kabuli_chr01	7888155	AA	GG	1946726281
SNP_P4_5025_7888176	NC_021160.1	Ca_kabuli_chr01	7888176	GG	TT	1946726283
SNP_P4_5026_7888184	NC_021160.1	Ca_kabuli_chr01	7888184	CC	TT	1946726285
SNP_P4_5027_7888206	NC_021160.1	Ca_kabuli_chr01	7888206	GG	AA	1946726287
SNP_P4_5028_7888224	NC_021160.1	Ca_kabuli_chr01	7888224	AA	GG	1946726289
SNP_P4_5029_7888284	NC_021160.1	Ca_kabuli_chr01	7888284	TT	CC	1946726291
SNP_P4_5031_7888401	NC_021160.1	Ca_kabuli_chr01	7888401	CC	TT	1946726293
SNP_P4_5032_7888597	NC_021160.1	Ca_kabuli_chr01	7888597	CC	GG	1946726295
SNP_P4_5033_7888794	NC_021160.1	Ca_kabuli_chr01	7888794	TT	AA	1946726297
SNP_P4_5034_7888856	NC_021160.1	Ca_kabuli_chr01	7888856	TT	CC	1946726299
SNP_P4_5035_7888888	NC_021160.1	Ca_kabuli_chr01	7888888	AA	GG	1946726301
SNP_P4_5036_7889206	NC_021160.1	Ca_kabuli_chr01	7889206	TT	CC	1946726303
SNP_P4_5037_7889746	NC_021160.1	Ca_kabuli_chr01	7889746	GG	AA	1946726305
SNP_P4_5038_7889761	NC_021160.1	Ca_kabuli_chr01	7889761	TT	AA	1946726307
SNP_P4_5039_7889771	NC_021160.1	Ca_kabuli_chr01	7889771	GG	AA	1946726309
SNP_P4_5040_7889796	NC_021160.1	Ca_kabuli_chr01	7889796	TT	CC	1946726311
SNP_P4_5041_7889980	NC_021160.1	Ca_kabuli_chr01	7889980	TT	CC	1946726313
SNP_P4_5042_7890247	NC_021160.1	Ca_kabuli_chr01	7890247	TT	CC	1946726315
SNP_P4_5043_7890252	NC_021160.1	Ca_kabuli_chr01	7890252	TT	CC	1946726317
SNP_P4_5044_7890258	NC_021160.1	Ca_kabuli_chr01	7890258	CC	AA	1946726319
SNP_P4_5045_7891147	NC_021160.1	Ca_kabuli_chr01	7891147	TT	CC	1946726320
SNP_P4_5046_7891157	NC_021160.1	Ca_kabuli_chr01	7891157	CC	AA	1946726321
SNP_P4_5047_7891211	NC_021160.1	Ca_kabuli_chr01	7891211	TT	CC	1946726322
SNP_P4_5048_7891691	NC_021160.1	Ca_kabuli_chr01	7891691	GG	AA	1946726323

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_5050_7893237	NC_021160.1	Ca_kabuli_chr01	7893237	CC	TT	1946726326
SNP_P4_5051_7893241	NC_021160.1	Ca_kabuli_chr01	7893241	TT	CC	1946726328
SNP_P4_5052_7893284	NC_021160.1	Ca_kabuli_chr01	7893284	CC	TT	1946726330
SNP_P4_5053_7893331	NC_021160.1	Ca_kabuli_chr01	7893331	GG	AA	1946726332
SNP_P4_5054_7893334	NC_021160.1	Ca_kabuli_chr01	7893334	AA	CC	1946726334
SNP_P4_5055_7893340	NC_021160.1	Ca_kabuli_chr01	7893340	TT	AA	1946726336
SNP_P4_5056_7893350	NC_021160.1	Ca_kabuli_chr01	7893350	TT	AA	1946726338
SNP_P4_5057_7893507	NC_021160.1	Ca_kabuli_chr01	7893507	CC	TT	1946726340
SNP_P4_5058_7893549	NC_021160.1	Ca_kabuli_chr01	7893549	AA	GG	1946726342
SNP_P4_5059_7894037	NC_021160.1	Ca_kabuli_chr01	7894037	GG	CC	1946726344
SNP_P4_5060_7894076	NC_021160.1	Ca_kabuli_chr01	7894076	GG	AA	1946726346
SNP_P4_5061_7894339	NC_021160.1	Ca_kabuli_chr01	7894339	AA	GG	1946726348
SNP_P4_5062_7895020	NC_021160.1	Ca_kabuli_chr01	7895020	TT	CC	1946726350
SNP_P4_5063_7895067	NC_021160.1	Ca_kabuli_chr01	7895067	GG	AA	1946726352
SNP_P4_5064_7895217	NC_021160.1	Ca_kabuli_chr01	7895217	AA	TT	1946726354
SNP_P4_5065_7895218	NC_021160.1	Ca_kabuli_chr01	7895218	TT	AA	1946726356
SNP_P4_5066_7895508	NC_021160.1	Ca_kabuli_chr01	7895508	CC	AA	1946726357
SNP_P4_5067_7895616	NC_021160.1	Ca_kabuli_chr01	7895616	AA	GG	1946726359
SNP_P4_5068_7895850	NC_021160.1	Ca_kabuli_chr01	7895850	AA	TT	1946726361
SNP_P4_5069_7895896	NC_021160.1	Ca_kabuli_chr01	7895896	CC	TT	1946726363
SNP_P4_5070_7896951	NC_021160.1	Ca_kabuli_chr01	7896951	CC	AA	1946726365
SNP_P4_5071_7897658	NC_021160.1	Ca_kabuli_chr01	7897658	GG	AA	1946726367
SNP_P4_5072_7898029	NC_021160.1	Ca_kabuli_chr01	7898029	GG	CC	1946726369
SNP_P4_5073_7898825	NC_021160.1	Ca_kabuli_chr01	7898825	CC	TT	1946726371
SNP_P4_5074_7899521	NC_021160.1	Ca_kabuli_chr01	7899521	CC	TT	1946726373
SNP_P4_5075_7899530	NC_021160.1	Ca_kabuli_chr01	7899530	CC	TT	1946726375
SNP_P4_5076_7899572	NC_021160.1	Ca_kabuli_chr01	7899572	GG	AA	1946726377
SNP_P4_5077_7899804	NC_021160.1	Ca_kabuli_chr01	7899804	TT	AA	1946726378
SNP_P4_5078_7899818	NC_021160.1	Ca_kabuli_chr01	7899818	CC	GG	1946726380
SNP_P4_5079_7900432	NC_021160.1	Ca_kabuli_chr01	7900432	TT	AA	1946726382
SNP_P4_5080_7900536	NC_021160.1	Ca_kabuli_chr01	7900536	CC	TT	1946726384
SNP_P4_5081_7900868	NC_021160.1	Ca_kabuli_chr01	7900868	AA	GG	1946726386
SNP_P4_5082_7901506	NC_021160.1	Ca_kabuli_chr01	7901506	TT	CC	1946726388
SNP_P4_5083_7901565	NC_021160.1	Ca_kabuli_chr01	7901565	GG	AA	1946726390
SNP_P4_5084_7901620	NC_021160.1	Ca_kabuli_chr01	7901620	TT	CC	1946726392
SNP_P4_5085_7901644	NC_021160.1	Ca_kabuli_chr01	7901644	TT	CC	1946726394
SNP_P4_5086_7901970	NC_021160.1	Ca_kabuli_chr01	7901970	GG	AA	1946726396
SNP_P4_5087_7902005	NC_021160.1	Ca_kabuli_chr01	7902005	GG	AA	1946726398
SNP_P4_5088_7904346	NC_021160.1	Ca_kabuli_chr01	7904346	AA	GG	1946726400
SNP_P4_5089_7905136	NC_021160.1	Ca_kabuli_chr01	7905136	TT	CC	1946726402
SNP_P4_5090_7905147	NC_021160.1	Ca_kabuli_chr01	7905147	AA	CC	1946726404

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_5092_7909905	NC_021160.1	Ca_kabuli_chr01	7909905	GG	AA	1946726408
SNP_P4_5093_7909965	NC_021160.1	Ca_kabuli_chr01	7909965	GG	AA	1946726410
SNP_P4_5094_7911176	NC_021160.1	Ca_kabuli_chr01	7911176	AA	GG	1946726412
SNP_P4_5095_7911550	NC_021160.1	Ca_kabuli_chr01	7911550	TT	CC	1946726414
SNP_P4_5096_7911644	NC_021160.1	Ca_kabuli_chr01	7911644	AA	GG	1946726416
SNP_P4_5097_7912961	NC_021160.1	Ca_kabuli_chr01	7912961	AA	GG	1946726418
SNP_P4_5098_7913472	NC_021160.1	Ca_kabuli_chr01	7913472	CC	TT	1946726420
SNP_P4_5099_7913584	NC_021160.1	Ca_kabuli_chr01	7913584	CC	TT	1946726422
SNP_P4_5100_7913613	NC_021160.1	Ca_kabuli_chr01	7913613	AA	GG	1946726424
SNP_P4_5102_7914115	NC_021160.1	Ca_kabuli_chr01	7914115	TT	GG	1946726426
SNP_P4_5103_7914119	NC_021160.1	Ca_kabuli_chr01	7914119	TT	CC	1946726428
SNP_P4_5104_7914143	NC_021160.1	Ca_kabuli_chr01	7914143	TT	CC	1946726430
SNP_P4_5106_7914206	NC_021160.1	Ca_kabuli_chr01	7914206	TT	CC	1946726432
SNP_P4_5107_7914223	NC_021160.1	Ca_kabuli_chr01	7914223	CC	TT	1946726434
SNP_P4_5108_7914278	NC_021160.1	Ca_kabuli_chr01	7914278	CC	TT	1946726436
SNP_P4_5109_7914347	NC_021160.1	Ca_kabuli_chr01	7914347	TT	CC	1946726438
SNP_P4_5110_7914405	NC_021160.1	Ca_kabuli_chr01	7914405	GG	CC	1946726440
SNP_P4_5112_7914456	NC_021160.1	Ca_kabuli_chr01	7914456	CC	TT	1946726442
SNP_P4_5113_7914496	NC_021160.1	Ca_kabuli_chr01	7914496	GG	AA	1946726444
SNP_P4_5114_7914503	NC_021160.1	Ca_kabuli_chr01	7914503	AA	GG	1946726446
SNP_P4_5115_7914504	NC_021160.1	Ca_kabuli_chr01	7914504	AA	GG	1946726448
SNP_P4_5116_7914513	NC_021160.1	Ca_kabuli_chr01	7914513	GG	TT	1946726450
SNP_P4_5117_7917518	NC_021160.1	Ca_kabuli_chr01	7917518	AA	GG	1946726452
SNP_P4_5118_7917535	NC_021160.1	Ca_kabuli_chr01	7917535	CC	TT	1946726454
SNP_P4_5119_7917561	NC_021160.1	Ca_kabuli_chr01	7917561	AA	CC	1946726456
SNP_P4_5120_7917568	NC_021160.1	Ca_kabuli_chr01	7917568	CC	TT	1946726458
SNP_P4_5121_7917611	NC_021160.1	Ca_kabuli_chr01	7917611	GG	AA	1946726460
SNP_P4_5122_7917811	NC_021160.1	Ca_kabuli_chr01	7917811	GG	AA	1946726462
SNP_P4_5123_7917852	NC_021160.1	Ca_kabuli_chr01	7917852	AA	GG	1946726464
SNP_P4_5124_7917860	NC_021160.1	Ca_kabuli_chr01	7917860	AA	GG	1946726466
SNP_P4_5125_7917924	NC_021160.1	Ca_kabuli_chr01	7917924	GG	TT	1946726468
SNP_P4_5126_7918197	NC_021160.1	Ca_kabuli_chr01	7918197	GG	AA	1946726470
SNP_P4_5127_7918198	NC_021160.1	Ca_kabuli_chr01	7918198	GG	CC	1946726472
SNP_P4_5128_7918217	NC_021160.1	Ca_kabuli_chr01	7918217	GG	AA	1946726474
SNP_P4_5129_7918243	NC_021160.1	Ca_kabuli_chr01	7918243	AA	TT	1946726476
SNP_P4_5130_7918787	NC_021160.1	Ca_kabuli_chr01	7918787	TT	AA	1946726478
SNP_P4_5131_7918795	NC_021160.1	Ca_kabuli_chr01	7918795	AA	CC	1946726480
SNP_P4_5132_7918807	NC_021160.1	Ca_kabuli_chr01	7918807	TT	CC	1946726482
SNP_P4_5133_7921282	NC_021160.1	Ca_kabuli_chr01	7921282	TT	GG	1946726484
SNP_P4_5134_7921284	NC_021160.1	Ca_kabuli_chr01	7921284	AA	GG	1946726486
SNP_P4_5135_7921289	NC_021160.1	Ca_kabuli_chr01	7921289	AA	GG	1946726488

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_5137_7924886	NC_021160.1	Ca_kabuli_chr01	7924886	TT	GG	1946726492
SNP_P4_5138_7925147	NC_021160.1	Ca_kabuli_chr01	7925147	TT	CC	1946726494
SNP_P4_5139_7926068	NC_021160.1	Ca_kabuli_chr01	7926068	TT	CC	1946726496
SNP_P4_5140_7926106	NC_021160.1	Ca_kabuli_chr01	7926106	CC	TT	1946726498
SNP_P4_5141_7926146	NC_021160.1	Ca_kabuli_chr01	7926146	GG	AA	1946726500
SNP_P4_5142_7926662	NC_021160.1	Ca_kabuli_chr01	7926662	GG	AA	1946726502
SNP_P4_5143_7926802	NC_021160.1	Ca_kabuli_chr01	7926802	AA	GG	1946726504
SNP_P4_5144_7926824	NC_021160.1	Ca_kabuli_chr01	7926824	AA	TT	1946726506
SNP_P4_5145_7926882	NC_021160.1	Ca_kabuli_chr01	7926882	AA	TT	1946726508
SNP_P4_5146_7926919	NC_021160.1	Ca_kabuli_chr01	7926919	CC	TT	1946726510
SNP_P4_5148_7927526	NC_021160.1	Ca_kabuli_chr01	7927526	AA	GG	1946726512
SNP_P4_5149_7928773	NC_021160.1	Ca_kabuli_chr01	7928773	GG	AA	1946726514
SNP_P4_5150_7928791	NC_021160.1	Ca_kabuli_chr01	7928791	CC	TT	1946726516
SNP_P4_5151_7929240	NC_021160.1	Ca_kabuli_chr01	7929240	AA	GG	1946726518
SNP_P4_5153_7929542	NC_021160.1	Ca_kabuli_chr01	7929542	GG	AA	1946726520
SNP_P4_5155_7930703	NC_021160.1	Ca_kabuli_chr01	7930703	CC	TT	1946726522
SNP_P4_5156_7930784	NC_021160.1	Ca_kabuli_chr01	7930784	TT	CC	1946726524
SNP_P4_5157_7930815	NC_021160.1	Ca_kabuli_chr01	7930815	TT	AA	1946726526
SNP_P4_5158_7930977	NC_021160.1	Ca_kabuli_chr01	7930977	AA	TT	1946726528
SNP_P4_5159_7931007	NC_021160.1	Ca_kabuli_chr01	7931007	CC	TT	1946726530
SNP_P4_5160_7931014	NC_021160.1	Ca_kabuli_chr01	7931014	AA	TT	1946726532
SNP_P4_5161_7932687	NC_021160.1	Ca_kabuli_chr01	7932687	GG	CC	1946726534
SNP_P4_5162_7932773	NC_021160.1	Ca_kabuli_chr01	7932773	CC	AA	1946726536
SNP_P4_5163_7932774	NC_021160.1	Ca_kabuli_chr01	7932774	AA	TT	1946726538
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SNP_P4_5167_7933315	NC_021160.1	Ca_kabuli_chr01	7933315	AA	GG	1946726542
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SNP_P4_5169_7935016	NC_021160.1	Ca_kabuli_chr01	7935016	GG	AA	1946726545
SNP_P4_5170_7935063	NC_021160.1	Ca_kabuli_chr01	7935063	GG	TT	1946726547
SNP_P4_5171_7937938	NC_021160.1	Ca_kabuli_chr01	7937938	CC	AA	1946726549
SNP_P4_5172_7937953	NC_021160.1	Ca_kabuli_chr01	7937953	TT	AA	1946726551
SNP_P4_5173_7940489	NC_021160.1	Ca_kabuli_chr01	7940489	CC	TT	1946726553
SNP_P4_5174_7941272	NC_021160.1	Ca_kabuli_chr01	7941272	GG	AA	1946726555
SNP_P4_5175_7941617	NC_021160.1	Ca_kabuli_chr01	7941617	AA	GG	1946726557
SNP_P4_5176_7941886	NC_021160.1	Ca_kabuli_chr01	7941886	AA	TT	1946726559
SNP_P4_5177_7942609	NC_021160.1	Ca_kabuli_chr01	7942609	GG	AA	1946726561
SNP_P4_5178_7942610	NC_021160.1	Ca_kabuli_chr01	7942610	TT	GG	1946726563
SNP_P4_5179_7942923	NC_021160.1	Ca_kabuli_chr01	7942923	AA	GG	1946726565
SNP_P4_5180_7942932	NC_021160.1	Ca_kabuli_chr01	7942932	AA	CC	1946726567
SNP_P4_5181_7945914	NC_021160.1	Ca_kabuli_chr01	7945914	CC	TT	1946726569
SNP_P4_5182_7946179	NC_021160.1	Ca_kabuli_chr01	7946179	TT	CC	1946726571

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_5186_7947895	NC_021160.1	Ca_kabuli_chr01	7947895	AA	GG	1946726577
SNP_P4_5187_7947992	NC_021160.1	Ca_kabuli_chr01	7947992	AA	GG	1946726579
SNP_P4_5188_7948000	NC_021160.1	Ca_kabuli_chr01	7948000	GG	AA	1946726580
SNP_P4_5190_7949554	NC_021160.1	Ca_kabuli_chr01	7949554	AA	TT	1946726582
SNP_P4_5192_7950420	NC_021160.1	Ca_kabuli_chr01	7950420	TT	AA	1946726584
SNP_P4_5193_7950433	NC_021160.1	Ca_kabuli_chr01	7950433	CC	GG	1946726586
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SNP_P4_5195_7950482	NC_021160.1	Ca_kabuli_chr01	7950482	CC	GG	1946726590
SNP_P4_5196_7950489	NC_021160.1	Ca_kabuli_chr01	7950489	AA	CC	1946726592
SNP_P4_5197_7950493	NC_021160.1	Ca_kabuli_chr01	7950493	TT	GG	1946726594
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SNP_P4_5201_7952082	NC_021160.1	Ca_kabuli_chr01	7952082	TT	AA	1946726598
SNP_P4_5202_7952416	NC_021160.1	Ca_kabuli_chr01	7952416	AA	GG	1946726600
SNP_P4_5204_7952948	NC_021160.1	Ca_kabuli_chr01	7952948	GG	AA	1946726602
SNP_P4_5206_7953083	NC_021160.1	Ca_kabuli_chr01	7953083	AA	TT	1946726604
SNP_P4_5207_7953154	NC_021160.1	Ca_kabuli_chr01	7953154	TT	GG	1946726606
SNP_P4_5208_7953155	NC_021160.1	Ca_kabuli_chr01	7953155	CC	AA	1946726608
SNP_P4_5209_7953194	NC_021160.1	Ca_kabuli_chr01	7953194	CC	TT	1946726610
SNP_P4_5210_7953219	NC_021160.1	Ca_kabuli_chr01	7953219	CC	GG	1946726612
SNP_P4_5212_7953360	NC_021160.1	Ca_kabuli_chr01	7953360	GG	AA	1946726614
SNP_P4_5213_7953364	NC_021160.1	Ca_kabuli_chr01	7953364	CC	AA	1946726616
SNP_P4_5214_7953537	NC_021160.1	Ca_kabuli_chr01	7953537	AA	GG	1946726618
SNP_P4_5215_7953849	NC_021160.1	Ca_kabuli_chr01	7953849	TT	CC	1946726620
SNP_P4_5216_7953882	NC_021160.1	Ca_kabuli_chr01	7953882	AA	GG	1946726622
SNP_P4_5217_7953883	NC_021160.1	Ca_kabuli_chr01	7953883	GG	AA	1946726624
SNP_P4_5218_7953887	NC_021160.1	Ca_kabuli_chr01	7953887	TT	GG	1946726626
SNP_P4_5219_7953917	NC_021160.1	Ca_kabuli_chr01	7953917	CC	TT	1946726628
SNP_P4_5220_7953920	NC_021160.1	Ca_kabuli_chr01	7953920	GG	AA	1946726630
SNP_P4_5221_7954051	NC_021160.1	Ca_kabuli_chr01	7954051	GG	AA	1946726632
SNP_P4_5222_7954065	NC_021160.1	Ca_kabuli_chr01	7954065	TT	CC	1946726634
SNP_P4_5223_7954455	NC_021160.1	Ca_kabuli_chr01	7954455	TT	CC	1946726636
SNP_P4_5224_7955058	NC_021160.1	Ca_kabuli_chr01	7955058	AA	TT	1946726638
SNP_P4_5225_7956380	NC_021160.1	Ca_kabuli_chr01	7956380	TT	CC	1946726641
SNP_P4_5226_7957684	NC_021160.1	Ca_kabuli_chr01	7957684	CC	GG	1946726643
SNP_P4_5227_7958254	NC_021160.1	Ca_kabuli_chr01	7958254	GG	AA	1946726645
SNP_P4_5228_7958289	NC_021160.1	Ca_kabuli_chr01	7958289	AA	GG	1946726646
SNP_P4_5229_7959151	NC_021160.1	Ca_kabuli_chr01	7959151	AA	GG	1946726648
SNP_P4_5231_7959399	NC_021160.1	Ca_kabuli_chr01	7959399	GG	AA	1946726650
SNP_P4_5232_7959413	NC_021160.1	Ca_kabuli_chr01	7959413	GG	AA	1946726652
SNP_P4_5233_7959457	NC_021160.1	Ca_kabuli_chr01	7959457	TT	GG	1946726654

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_5236_7960899	NC_021160.1	Ca_kabuli_chr01	7960899	AA	GG	1946726656
SNP_P4_5237_7961205	NC_021160.1	Ca_kabuli_chr01	7961205	CC	TT	1946726658
SNP_P4_5239_7961436	NC_021160.1	Ca_kabuli_chr01	7961436	CC	TT	1946726660
SNP_P4_5240_7961526	NC_021160.1	Ca_kabuli_chr01	7961526	TT	CC	1946726662
SNP_P4_5241_7961731	NC_021160.1	Ca_kabuli_chr01	7961731	CC	TT	1946726664
SNP_P4_5242_7961732	NC_021160.1	Ca_kabuli_chr01	7961732	AA	CC	1946726666
SNP_P4_5243_7962039	NC_021160.1	Ca_kabuli_chr01	7962039	GG	AA	1946726668
SNP_P4_5244_7962068	NC_021160.1	Ca_kabuli_chr01	7962068	AA	GG	1946726670
SNP_P4_5245_7962694	NC_021160.1	Ca_kabuli_chr01	7962694	CC	TT	1946726672
SNP_P4_5246_7963030	NC_021160.1	Ca_kabuli_chr01	7963030	TT	AA	1946726674
SNP_P4_5247_7963260	NC_021160.1	Ca_kabuli_chr01	7963260	GG	AA	1946726676
SNP_P4_5248_7963261	NC_021160.1	Ca_kabuli_chr01	7963261	AA	GG	1946726678
SNP_P4_5249_7965350	NC_021160.1	Ca_kabuli_chr01	7965350	TT	GG	1946726680
SNP_P4_5251_7965672	NC_021160.1	Ca_kabuli_chr01	7965672	AA	GG	1946726682
SNP_P4_5252_7967552	NC_021160.1	Ca_kabuli_chr01	7967552	AA	GG	1946726684
SNP_P4_5253_7967577	NC_021160.1	Ca_kabuli_chr01	7967577	AA	TT	1946726686
SNP_P4_5254_7967639	NC_021160.1	Ca_kabuli_chr01	7967639	AA	CC	1946726688
SNP_P4_5255_7967810	NC_021160.1	Ca_kabuli_chr01	7967810	AA	TT	1946726690
SNP_P4_5256_7967835	NC_021160.1	Ca_kabuli_chr01	7967835	TT	CC	1946726692
SNP_P4_5257_7967879	NC_021160.1	Ca_kabuli_chr01	7967879	TT	CC	1946726694
SNP_P4_5258_7967906	NC_021160.1	Ca_kabuli_chr01	7967906	TT	CC	1946726696
SNP_P4_5259_7968051	NC_021160.1	Ca_kabuli_chr01	7968051	GG	TT	1946726698
SNP_P4_5260_7969218	NC_021160.1	Ca_kabuli_chr01	7969218	TT	CC	1946726699
SNP_P4_5261_7969591	NC_021160.1	Ca_kabuli_chr01	7969591	TT	CC	1946726701
SNP_P4_5262_7969702	NC_021160.1	Ca_kabuli_chr01	7969702	TT	GG	1946726703
SNP_P4_5263_7970041	NC_021160.1	Ca_kabuli_chr01	7970041	TT	AA	1946726705
SNP_P4_5264_7970055	NC_021160.1	Ca_kabuli_chr01	7970055	AA	GG	1946726707
SNP_P4_5265_7970800	NC_021160.1	Ca_kabuli_chr01	7970800	CC	TT	1946726709
SNP_P4_5267_7972089	NC_021160.1	Ca_kabuli_chr01	7972089	AA	TT	1946726711
SNP_P4_5268_7973218	NC_021160.1	Ca_kabuli_chr01	7973218	GG	AA	1946726713
SNP_P4_5269_7973226	NC_021160.1	Ca_kabuli_chr01	7973226	GG	TT	1946726715
SNP_P4_5270_7973267	NC_021160.1	Ca_kabuli_chr01	7973267	GG	TT	1946726717
SNP_P4_5271_7974596	NC_021160.1	Ca_kabuli_chr01	7974596	TT	CC	1946726719
SNP_P4_5272_7974600	NC_021160.1	Ca_kabuli_chr01	7974600	CC	TT	1946726721
SNP_P4_5273_7974614	NC_021160.1	Ca_kabuli_chr01	7974614	TT	CC	1946726723
SNP_P4_5274_7974657	NC_021160.1	Ca_kabuli_chr01	7974657	CC	TT	1946726725
SNP_P4_5275_7974729	NC_021160.1	Ca_kabuli_chr01	7974729	CC	TT	1946726727
SNP_P4_5276_7974847	NC_021160.1	Ca_kabuli_chr01	7974847	CC	TT	1946726729
SNP_P4_5277_7974848	NC_021160.1	Ca_kabuli_chr01	7974848	AA	GG	1946726730
SNP_P4_5278_7974875	NC_021160.1	Ca_kabuli_chr01	7974875	GG	AA	1946726732
SNP_P4_5279_7974888	NC_021160.1	Ca_kabuli_chr01	7974888	AA	GG	1946726734
SNP_P4_5280_7974978	NC_021160.1	Ca_kabuli_chr01	7974978	TT	GG	1946726736

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_5282_7975003	NC_021160.1	Ca_kabuli_chr01	7975003	TT	CC	1946726740
SNP_P4_5283_7975020	NC_021160.1	Ca_kabuli_chr01	7975020	GG	AA	1946726742
SNP_P4_5284_7975670	NC_021160.1	Ca_kabuli_chr01	7975670	AA	GG	1946726744
SNP_P4_5285_7975804	NC_021160.1	Ca_kabuli_chr01	7975804	AA	GG	1946726746
SNP_P4_5286_7975810	NC_021160.1	Ca_kabuli_chr01	7975810	GG	AA	1946726748
SNP_P4_5287_7975845	NC_021160.1	Ca_kabuli_chr01	7975845	TT	CC	1946726750
SNP_P4_5288_7975846	NC_021160.1	Ca_kabuli_chr01	7975846	CC	TT	1946726752
SNP_P4_5289_7975924	NC_021160.1	Ca_kabuli_chr01	7975924	TT	CC	1946726754
SNP_P4_5290_7975932	NC_021160.1	Ca_kabuli_chr01	7975932	CC	TT	1946726756
SNP_P4_5291_7976524	NC_021160.1	Ca_kabuli_chr01	7976524	CC	GG	1946726758
SNP_P4_5292_7976531	NC_021160.1	Ca_kabuli_chr01	7976531	TT	GG	1946726760
SNP_P4_5293_7976539	NC_021160.1	Ca_kabuli_chr01	7976539	AA	CC	1946726761
SNP_P4_5294_7976867	NC_021160.1	Ca_kabuli_chr01	7976867	CC	TT	1946726763
SNP_P4_5295_7976870	NC_021160.1	Ca_kabuli_chr01	7976870	CC	AA	1946726765
SNP_P4_5296_7979770	NC_021160.1	Ca_kabuli_chr01	7979770	GG	AA	1946726767
SNP_P4_5297_7980027	NC_021160.1	Ca_kabuli_chr01	7980027	AA	TT	1946726769
SNP_P4_5298_7980032	NC_021160.1	Ca_kabuli_chr01	7980032	AA	TT	1946726771
SNP_P4_5299_7980295	NC_021160.1	Ca_kabuli_chr01	7980295	TT	CC	1946726773
SNP_P4_5300_7980328	NC_021160.1	Ca_kabuli_chr01	7980328	AA	GG	1946726775
SNP_P4_5301_7980333	NC_021160.1	Ca_kabuli_chr01	7980333	AA	GG	1946726777
SNP_P4_5302_7980458	NC_021160.1	Ca_kabuli_chr01	7980458	GG	CC	1946726779
SNP_P4_5303_7980488	NC_021160.1	Ca_kabuli_chr01	7980488	TT	CC	1946726781
SNP_P4_5304_7980542	NC_021160.1	Ca_kabuli_chr01	7980542	TT	CC	1946726783
SNP_P4_5306_7981667	NC_021160.1	Ca_kabuli_chr01	7981667	TT	GG	1946726785
SNP_P4_5307_7981693	NC_021160.1	Ca_kabuli_chr01	7981693	GG	AA	1946726787
SNP_P4_5308_7981747	NC_021160.1	Ca_kabuli_chr01	7981747	CC	TT	1946726789
SNP_P4_5309_7981771	NC_021160.1	Ca_kabuli_chr01	7981771	AA	CC	1946726791
SNP_P4_5310_7981912	NC_021160.1	Ca_kabuli_chr01	7981912	AA	TT	1946726794
SNP_P4_5311_7981917	NC_021160.1	Ca_kabuli_chr01	7981917	CC	TT	1946726796
SNP_P4_5312_7983322	NC_021160.1	Ca_kabuli_chr01	7983322	AA	GG	1946726798
SNP_P4_5313_7983359	NC_021160.1	Ca_kabuli_chr01	7983359	AA	GG	1946726800
SNP_P4_5314_7983480	NC_021160.1	Ca_kabuli_chr01	7983480	GG	TT	1946726802
SNP_P4_5315_7983723	NC_021160.1	Ca_kabuli_chr01	7983723	CC	AA	1946726804
SNP_P4_5317_7984672	NC_021160.1	Ca_kabuli_chr01	7984672	TT	CC	1946726806
SNP_P4_5318_7985441	NC_021160.1	Ca_kabuli_chr01	7985441	CC	TT	1946726808
SNP_P4_5319_7986952	NC_021160.1	Ca_kabuli_chr01	7986952	GG	TT	1946726810
SNP_P4_5320_7987647	NC_021160.1	Ca_kabuli_chr01	7987647	CC	GG	1946726812
SNP_P4_5321_7987970	NC_021160.1	Ca_kabuli_chr01	7987970	TT	AA	1946726814
SNP_P4_5322_7987973	NC_021160.1	Ca_kabuli_chr01	7987973	TT	AA	1946726816
SNP_P4_5323_7988004	NC_021160.1	Ca_kabuli_chr01	7988004	AA	TT	1946726818
SNP_P4_5326_7988396	NC_021160.1	Ca_kabuli_chr01	7988396	AA	CC	1946726820

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_5328_7988663	NC_021160.1	Ca_kabuli_chr01	7988663	GG	AA	1946726824
SNP_P4_5329_7988712	NC_021160.1	Ca_kabuli_chr01	7988712	TT	AA	1946726826
SNP_P4_5330_7988792	NC_021160.1	Ca_kabuli_chr01	7988792	GG	AA	1946726828
SNP_P4_5334_7992348	NC_021160.1	Ca_kabuli_chr01	7992348	TT	AA	1946726830
SNP_P4_5335_7992456	NC_021160.1	Ca_kabuli_chr01	7992456	AA	TT	1946726832
SNP_P4_5337_7993569	NC_021160.1	Ca_kabuli_chr01	7993569	AA	GG	1946726834
SNP_P4_5338_7993574	NC_021160.1	Ca_kabuli_chr01	7993574	TT	CC	1946726836
SNP_P4_5339_7994286	NC_021160.1	Ca_kabuli_chr01	7994286	TT	AA	1946726838
SNP_P4_5340_7994299	NC_021160.1	Ca_kabuli_chr01	7994299	CC	GG	1946726840
SNP_P4_5342_7994689	NC_021160.1	Ca_kabuli_chr01	7994689	GG	AA	1946726842
SNP_P4_5343_7994715	NC_021160.1	Ca_kabuli_chr01	7994715	AA	GG	1946726844
SNP_P4_5344_7994727	NC_021160.1	Ca_kabuli_chr01	7994727	AA	GG	1946726846
SNP_P4_5345_7995640	NC_021160.1	Ca_kabuli_chr01	7995640	TT	CC	1946726848
SNP_P4_5346_7995648	NC_021160.1	Ca_kabuli_chr01	7995648	CC	TT	1946726850
SNP_P4_5347_7995669	NC_021160.1	Ca_kabuli_chr01	7995669	TT	CC	1946726852
SNP_P4_5351_7995881	NC_021160.1	Ca_kabuli_chr01	7995881	CC	TT	1946726854
SNP_P4_5352_7995912	NC_021160.1	Ca_kabuli_chr01	7995912	CC	TT	1946726856
SNP_P4_5353_7996055	NC_021160.1	Ca_kabuli_chr01	7996055	CC	AA	1946726858
SNP_P4_5354_7996105	NC_021160.1	Ca_kabuli_chr01	7996105	AA	GG	1946726860
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SNP_P4_5357_7996661	NC_021160.1	Ca_kabuli_chr01	7996661	GG	AA	1946726864
SNP_P4_5358_7998523	NC_021160.1	Ca_kabuli_chr01	7998523	TT	AA	1946726866
SNP_P4_5360_8002686	NC_021160.1	Ca_kabuli_chr01	8002686	TT	CC	1946726868
SNP_P4_5361_8002688	NC_021160.1	Ca_kabuli_chr01	8002688	AA	TT	1946726870
SNP_P4_5362_8003462	NC_021160.1	Ca_kabuli_chr01	8003462	CC	TT	1946726872
SNP_P4_5363_8003469	NC_021160.1	Ca_kabuli_chr01	8003469	TT	AA	1946726874
SNP_P4_5364_8003470	NC_021160.1	Ca_kabuli_chr01	8003470	TT	AA	1946726876
SNP_P4_5365_8003489	NC_021160.1	Ca_kabuli_chr01	8003489	CC	AA	1946726878
SNP_P4_5366_8003616	NC_021160.1	Ca_kabuli_chr01	8003616	AA	TT	1946726881
SNP_P4_5368_8003788	NC_021160.1	Ca_kabuli_chr01	8003788	CC	TT	1946726883
SNP_P4_5370_8003897	NC_021160.1	Ca_kabuli_chr01	8003897	AA	CC	1946726885
SNP_P4_5372_8004041	NC_021160.1	Ca_kabuli_chr01	8004041	GG	AA	1946726887
SNP_P4_5374_8004100	NC_021160.1	Ca_kabuli_chr01	8004100	CC	TT	1946726889
SNP_P4_5375_8004300	NC_021160.1	Ca_kabuli_chr01	8004300	TT	GG	1946726891
SNP_P4_5376_8004322	NC_021160.1	Ca_kabuli_chr01	8004322	AA	GG	1946726893
SNP_P4_5378_8004784	NC_021160.1	Ca_kabuli_chr01	8004784	TT	AA	1946726895
SNP_P4_5379_8005090	NC_021160.1	Ca_kabuli_chr01	8005090	GG	CC	1946726897
SNP_P4_5380_8005123	NC_021160.1	Ca_kabuli_chr01	8005123	GG	CC	1946726899
SNP_P4_5381_8006844	NC_021160.1	Ca_kabuli_chr01	8006844	GG	TT	1946726901
SNP_P4_5382_8007126	NC_021160.1	Ca_kabuli_chr01	8007126	AA	CC	1946726903
SNP_P4_5383_8007461	NC_021160.1	Ca_kabuli_chr01	8007461	GG	AA	1946726905

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_5385_8008649	NC_021160.1	Ca_kabuli_chr01	8008649	GG	AA	1946726909
SNP_P4_5386_8008720	NC_021160.1	Ca_kabuli_chr01	8008720	AA	GG	1946726911
SNP_P4_5387_8008754	NC_021160.1	Ca_kabuli_chr01	8008754	TT	CC	1946726913
SNP_P4_5388_8008800	NC_021160.1	Ca_kabuli_chr01	8008800	TT	CC	1946726915
SNP_P4_5389_8008838	NC_021160.1	Ca_kabuli_chr01	8008838	GG	AA	1946726917
SNP_P4_5390_8008878	NC_021160.1	Ca_kabuli_chr01	8008878	AA	GG	1946726919
SNP_P4_5391_8009594	NC_021160.1	Ca_kabuli_chr01	8009594	AA	TT	1946726921
SNP_P4_5392_8009657	NC_021160.1	Ca_kabuli_chr01	8009657	AA	CC	1946726923
SNP_P4_5393_8009762	NC_021160.1	Ca_kabuli_chr01	8009762	CC	TT	1946726925
SNP_P4_5394_8009928	NC_021160.1	Ca_kabuli_chr01	8009928	CC	TT	1946726927
SNP_P4_5395_8009962	NC_021160.1	Ca_kabuli_chr01	8009962	TT	GG	1946726929
SNP_P4_5396_8010154	NC_021160.1	Ca_kabuli_chr01	8010154	AA	GG	1946726931
SNP_P4_5397_8010253	NC_021160.1	Ca_kabuli_chr01	8010253	CC	TT	1946726932
SNP_P4_5398_8011033	NC_021160.1	Ca_kabuli_chr01	8011033	CC	TT	1946726934
SNP_P4_5399_8011349	NC_021160.1	Ca_kabuli_chr01	8011349	TT	CC	1946726936
SNP_P4_5400_8011546	NC_021160.1	Ca_kabuli_chr01	8011546	AA	TT	1946726938
SNP_P4_5401_8012755	NC_021160.1	Ca_kabuli_chr01	8012755	TT	GG	1946726940
SNP_P4_5402_8012757	NC_021160.1	Ca_kabuli_chr01	8012757	CC	TT	1946726942
SNP_P4_5403_8014862	NC_021160.1	Ca_kabuli_chr01	8014862	AA	TT	1946726944
SNP_P4_5404_8015135	NC_021160.1	Ca_kabuli_chr01	8015135	CC	TT	1946726946
SNP_P4_5406_8017989	NC_021160.1	Ca_kabuli_chr01	8017989	AA	GG	1946726948
SNP_P4_5407_8018001	NC_021160.1	Ca_kabuli_chr01	8018001	AA	GG	1946726949
SNP_P4_5408_8018011	NC_021160.1	Ca_kabuli_chr01	8018011	TT	AA	1946726952
SNP_P4_5410_8018054	NC_021160.1	Ca_kabuli_chr01	8018054	AA	TT	1946726954
SNP_P4_5412_8018330	NC_021160.1	Ca_kabuli_chr01	8018330	AA	GG	1946726955
SNP_P4_5413_8018348	NC_021160.1	Ca_kabuli_chr01	8018348	AA	CC	1946726957
SNP_P4_5414_8018402	NC_021160.1	Ca_kabuli_chr01	8018402	GG	AA	1946726959
SNP_P4_5415_8019194	NC_021160.1	Ca_kabuli_chr01	8019194	TT	CC	1946726961
SNP_P4_5416_8019206	NC_021160.1	Ca_kabuli_chr01	8019206	AA	GG	1946726963
SNP_P4_5417_8019335	NC_021160.1	Ca_kabuli_chr01	8019335	TT	CC	1946726965
SNP_P4_5418_8020219	NC_021160.1	Ca_kabuli_chr01	8020219	AA	GG	1946726967
SNP_P4_5419_8020258	NC_021160.1	Ca_kabuli_chr01	8020258	GG	AA	1946726969
SNP_P4_5421_8020378	NC_021160.1	Ca_kabuli_chr01	8020378	TT	CC	1946726971
SNP_P4_5422_8020607	NC_021160.1	Ca_kabuli_chr01	8020607	TT	CC	1946726973
SNP_P4_5423_8020616	NC_021160.1	Ca_kabuli_chr01	8020616	TT	CC	1946726975
SNP_P4_5424_8021535	NC_021160.1	Ca_kabuli_chr01	8021535	AA	GG	1946726977
SNP_P4_5426_8021625	NC_021160.1	Ca_kabuli_chr01	8021625	AA	CC	1946726979
SNP_P4_5427_8021855	NC_021160.1	Ca_kabuli_chr01	8021855	AA	CC	1946726981
SNP_P4_5428_8022118	NC_021160.1	Ca_kabuli_chr01	8022118	GG	TT	1946726983
SNP_P4_5429_8022125	NC_021160.1	Ca_kabuli_chr01	8022125	CC	GG	1946726985
SNP_P4_5430_8022435	NC_021160.1	Ca_kabuli_chr01	8022435	AA	GG	1946726987

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_5432_8023456	NC_021160.1	Ca_kabuli_chr01	8023456	TT	CC	1946726991
SNP_P4_5433_8023466	NC_021160.1	Ca_kabuli_chr01	8023466	GG	AA	1946726993
SNP_P4_5434_8023687	NC_021160.1	Ca_kabuli_chr01	8023687	CC	TT	1946726995
SNP_P4_5435_8023733	NC_021160.1	Ca_kabuli_chr01	8023733	GG	AA	1946726997
SNP_P4_5436_8023743	NC_021160.1	Ca_kabuli_chr01	8023743	TT	CC	1946726999
SNP_P4_5437_8023760	NC_021160.1	Ca_kabuli_chr01	8023760	CC	TT	1946727001
SNP_P4_5438_8023860	NC_021160.1	Ca_kabuli_chr01	8023860	AA	GG	1946727003
SNP_P4_5439_8023974	NC_021160.1	Ca_kabuli_chr01	8023974	GG	AA	1946727005
SNP_P4_5440_8025831	NC_021160.1	Ca_kabuli_chr01	8025831	CC	AA	1946727007
SNP_P4_5441_8025871	NC_021160.1	Ca_kabuli_chr01	8025871	GG	AA	1946727009
SNP_P4_5442_8025959	NC_021160.1	Ca_kabuli_chr01	8025959	GG	AA	1946727011
SNP_P4_5443_8026034	NC_021160.1	Ca_kabuli_chr01	8026034	GG	AA	1946727013
SNP_P4_5444_8028325	NC_021160.1	Ca_kabuli_chr01	8028325	TT	CC	1946727015
SNP_P4_5445_8028589	NC_021160.1	Ca_kabuli_chr01	8028589	TT	GG	1946727017
SNP_P4_5446_8029271	NC_021160.1	Ca_kabuli_chr01	8029271	GG	CC	1946727019
SNP_P4_5447_8029426	NC_021160.1	Ca_kabuli_chr01	8029426	AA	GG	1946727021
SNP_P4_5448_8029435	NC_021160.1	Ca_kabuli_chr01	8029435	CC	TT	1946727023
SNP_P4_5449_8029456	NC_021160.1	Ca_kabuli_chr01	8029456	GG	AA	1946727025
SNP_P4_5450_8029674	NC_021160.1	Ca_kabuli_chr01	8029674	TT	CC	1946727027
SNP_P4_5451_8029678	NC_021160.1	Ca_kabuli_chr01	8029678	TT	CC	1946727029
SNP_P4_5452_8029980	NC_021160.1	Ca_kabuli_chr01	8029980	CC	TT	1946727031
SNP_P4_5453_8029990	NC_021160.1	Ca_kabuli_chr01	8029990	AA	GG	1946727033
SNP_P4_5454_8030027	NC_021160.1	Ca_kabuli_chr01	8030027	AA	GG	1946727035
SNP_P4_5455_8030106	NC_021160.1	Ca_kabuli_chr01	8030106	GG	AA	1946727037
SNP_P4_5456_8030943	NC_021160.1	Ca_kabuli_chr01	8030943	TT	CC	1946727039
SNP_P4_5457_8031285	NC_021160.1	Ca_kabuli_chr01	8031285	TT	AA	1946727041
SNP_P4_5461_8032723	NC_021160.1	Ca_kabuli_chr01	8032723	CC	AA	1946727043
SNP_P4_5464_8033532	NC_021160.1	Ca_kabuli_chr01	8033532	GG	TT	1946727045
SNP_P4_5465_8033544	NC_021160.1	Ca_kabuli_chr01	8033544	AA	GG	1946727047
SNP_P4_5466_8034478	NC_021160.1	Ca_kabuli_chr01	8034478	GG	AA	1946727049
SNP_P4_5467_8034606	NC_021160.1	Ca_kabuli_chr01	8034606	CC	TT	1946727051
SNP_P4_5468_8034738	NC_021160.1	Ca_kabuli_chr01	8034738	CC	GG	1946727053
SNP_P4_5469_8034775	NC_021160.1	Ca_kabuli_chr01	8034775	AA	GG	1946727055
SNP_P4_5470_8035034	NC_021160.1	Ca_kabuli_chr01	8035034	TT	GG	1946727057
SNP_P4_5471_8035730	NC_021160.1	Ca_kabuli_chr01	8035730	AA	CC	1946727059
SNP_P4_5472_8036403	NC_021160.1	Ca_kabuli_chr01	8036403	AA	GG	1946727061
SNP_P4_5473_8037593	NC_021160.1	Ca_kabuli_chr01	8037593	CC	TT	1946727063
SNP_P4_5474_8038097	NC_021160.1	Ca_kabuli_chr01	8038097	TT	GG	1946727065
SNP_P4_5475_8038220	NC_021160.1	Ca_kabuli_chr01	8038220	TT	GG	1946727067
SNP_P4_5477_8039385	NC_021160.1	Ca_kabuli_chr01	8039385	GG	TT	1946727069
SNP_P4_5478_8039387	NC_021160.1	Ca_kabuli_chr01	8039387	AA	CC	1946727071

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_5480_8040576	NC_021160.1	Ca_kabuli_chr01	8040576	GG	AA	1946727074
SNP_P4_5481_8040594	NC_021160.1	Ca_kabuli_chr01	8040594	AA	GG	1946727076
SNP_P4_5482_8040781	NC_021160.1	Ca_kabuli_chr01	8040781	TT	GG	1946727078
SNP_P4_5483_8041038	NC_021160.1	Ca_kabuli_chr01	8041038	AA	CC	1946727080
SNP_P4_5484_8041056	NC_021160.1	Ca_kabuli_chr01	8041056	AA	TT	1946727082
SNP_P4_5485_8041076	NC_021160.1	Ca_kabuli_chr01	8041076	CC	AA	1946727084
SNP_P4_5487_8041316	NC_021160.1	Ca_kabuli_chr01	8041316	GG	CC	1946727086
SNP_P4_5488_8041334	NC_021160.1	Ca_kabuli_chr01	8041334	GG	CC	1946727088
SNP_P4_5490_8041935	NC_021160.1	Ca_kabuli_chr01	8041935	TT	CC	1946727090
SNP_P4_5491_8042416	NC_021160.1	Ca_kabuli_chr01	8042416	CC	AA	1946727092
SNP_P4_5492_8042422	NC_021160.1	Ca_kabuli_chr01	8042422	TT	CC	1946727094
SNP_P4_5493_8042858	NC_021160.1	Ca_kabuli_chr01	8042858	CC	TT	1946727096
SNP_P4_5494_8042874	NC_021160.1	Ca_kabuli_chr01	8042874	TT	CC	1946727098
SNP_P4_5495_8042888	NC_021160.1	Ca_kabuli_chr01	8042888	AA	GG	1946727100
SNP_P4_5496_8042899	NC_021160.1	Ca_kabuli_chr01	8042899	CC	TT	1946727102
SNP_P4_5497_8043076	NC_021160.1	Ca_kabuli_chr01	8043076	GG	AA	1946727103
SNP_P4_5498_8043484	NC_021160.1	Ca_kabuli_chr01	8043484	GG	AA	1946727105
SNP_P4_5499_8043485	NC_021160.1	Ca_kabuli_chr01	8043485	CC	AA	1946727107
SNP_P4_5500_8043565	NC_021160.1	Ca_kabuli_chr01	8043565	AA	TT	1946727109
SNP_P4_5501_8043624	NC_021160.1	Ca_kabuli_chr01	8043624	AA	GG	1946727111
SNP_P4_5502_8045139	NC_021160.1	Ca_kabuli_chr01	8045139	GG	TT	1946727113
SNP_P4_5503_8045915	NC_021160.1	Ca_kabuli_chr01	8045915	AA	GG	1946727115
SNP_P4_5504_8048269	NC_021160.1	Ca_kabuli_chr01	8048269	TT	AA	1946727117
SNP_P4_5505_8048270	NC_021160.1	Ca_kabuli_chr01	8048270	TT	AA	1946727119
SNP_P4_5506_8048271	NC_021160.1	Ca_kabuli_chr01	8048271	TT	AA	1946727121
SNP_P4_5507_8048726	NC_021160.1	Ca_kabuli_chr01	8048726	GG	AA	1946727123
SNP_P4_5509_8054262	NC_021160.1	Ca_kabuli_chr01	8054262	CC	TT	1946727125
SNP_P4_5510_8061379	NC_021160.1	Ca_kabuli_chr01	8061379	TT	GG	1946727127
SNP_P4_5511_8062134	NC_021160.1	Ca_kabuli_chr01	8062134	AA	GG	1946727129
SNP_P4_5512_8062380	NC_021160.1	Ca_kabuli_chr01	8062380	TT	CC	1946727131
SNP_P4_5513_8062413	NC_021160.1	Ca_kabuli_chr01	8062413	TT	CC	1946727133
SNP_P4_5514_8062493	NC_021160.1	Ca_kabuli_chr01	8062493	CC	TT	1946727135
SNP_P4_5515_8062494	NC_021160.1	Ca_kabuli_chr01	8062494	TT	GG	1946727137
SNP_P4_5516_8062691	NC_021160.1	Ca_kabuli_chr01	8062691	TT	CC	1946727139
SNP_P4_5517_8062746	NC_021160.1	Ca_kabuli_chr01	8062746	GG	AA	1946727141
SNP_P4_5518_8062795	NC_021160.1	Ca_kabuli_chr01	8062795	GG	AA	1946727143
SNP_P4_5520_8062895	NC_021160.1	Ca_kabuli_chr01	8062895	AA	TT	1946727145
SNP_P4_5521_8062900	NC_021160.1	Ca_kabuli_chr01	8062900	TT	AA	1946727147
SNP_P4_5522_8062980	NC_021160.1	Ca_kabuli_chr01	8062980	AA	GG	1946727149
SNP_P4_5524_8065133	NC_021160.1	Ca_kabuli_chr01	8065133	CC	AA	1946727150
SNP_P4_5525_8065161	NC_021160.1	Ca_kabuli_chr01	8065161	GG	CC	1946727152

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_5527_8065181	NC_021160.1	Ca_kabuli_chr01	8065181	TT	AA	1946727156
SNP_P4_5528_8065462	NC_021160.1	Ca_kabuli_chr01	8065462	TT	GG	1946727158
SNP_P4_5529_8065474	NC_021160.1	Ca_kabuli_chr01	8065474	AA	GG	1946727160
SNP_P4_5530_8072893	NC_021160.1	Ca_kabuli_chr01	8072893	CC	AA	1946727162
SNP_P4_5531_8072915	NC_021160.1	Ca_kabuli_chr01	8072915	AA	GG	1946727164
SNP_P4_5532_8073252	NC_021160.1	Ca_kabuli_chr01	8073252	GG	CC	1946727166
SNP_P4_5533_8074389	NC_021160.1	Ca_kabuli_chr01	8074389	TT	CC	1946727168
SNP_P4_5534_8074907	NC_021160.1	Ca_kabuli_chr01	8074907	AA	GG	1946727170
SNP_P4_5535_8075082	NC_021160.1	Ca_kabuli_chr01	8075082	AA	GG	1946727172
SNP_P4_5536_8075742	NC_021160.1	Ca_kabuli_chr01	8075742	GG	TT	1946727174
SNP_P4_5537_8076012	NC_021160.1	Ca_kabuli_chr01	8076012	TT	AA	1946727176
SNP_P4_5538_8079254	NC_021160.1	Ca_kabuli_chr01	8079254	GG	AA	1946727178
SNP_P4_5539_8079461	NC_021160.1	Ca_kabuli_chr01	8079461	AA	CC	1946727180
SNP_P4_5540_8079775	NC_021160.1	Ca_kabuli_chr01	8079775	TT	GG	1946727182
SNP_P4_5541_8088308	NC_021160.1	Ca_kabuli_chr01	8088308	AA	CC	1946727183
SNP_P4_5542_8088337	NC_021160.1	Ca_kabuli_chr01	8088337	TT	AA	1946727185
SNP_P4_5543_8089219	NC_021160.1	Ca_kabuli_chr01	8089219	TT	CC	1946727187
SNP_P4_5545_8090564	NC_021160.1	Ca_kabuli_chr01	8090564	CC	GG	1946727189
SNP_P4_5546_8090567	NC_021160.1	Ca_kabuli_chr01	8090567	GG	AA	1946727191
SNP_P4_5547_8090941	NC_021160.1	Ca_kabuli_chr01	8090941	AA	GG	1946727193
SNP_P4_5549_8091200	NC_021160.1	Ca_kabuli_chr01	8091200	TT	CC	1946727195
SNP_P4_5550_8091509	NC_021160.1	Ca_kabuli_chr01	8091509	TT	GG	1946727197
SNP_P4_5552_8091560	NC_021160.1	Ca_kabuli_chr01	8091560	TT	AA	1946727199
SNP_P4_5553_8091565	NC_021160.1	Ca_kabuli_chr01	8091565	AA	TT	1946727201
SNP_P4_5554_8091692	NC_021160.1	Ca_kabuli_chr01	8091692	TT	GG	1946727203
SNP_P4_5555_8091707	NC_021160.1	Ca_kabuli_chr01	8091707	CC	TT	1946727205
SNP_P4_5556_8091717	NC_021160.1	Ca_kabuli_chr01	8091717	CC	TT	1946727207
SNP_P4_5557_8091739	NC_021160.1	Ca_kabuli_chr01	8091739	GG	AA	1946727209
SNP_P4_5558_8092256	NC_021160.1	Ca_kabuli_chr01	8092256	AA	TT	1946727211
SNP_P4_5559_8092263	NC_021160.1	Ca_kabuli_chr01	8092263	CC	GG	1946727213
SNP_P4_5560_8093457	NC_021160.1	Ca_kabuli_chr01	8093457	AA	TT	1946727215
SNP_P4_5561_8093682	NC_021160.1	Ca_kabuli_chr01	8093682	GG	AA	1946727217
SNP_P4_5562_8093686	NC_021160.1	Ca_kabuli_chr01	8093686	GG	AA	1946727219
SNP_P4_5563_8093712	NC_021160.1	Ca_kabuli_chr01	8093712	AA	GG	1946727221
SNP_P4_5564_8093753	NC_021160.1	Ca_kabuli_chr01	8093753	CC	TT	1946727223
SNP_P4_5565_8093765	NC_021160.1	Ca_kabuli_chr01	8093765	TT	CC	1946727225
SNP_P4_5566_8093768	NC_021160.1	Ca_kabuli_chr01	8093768	GG	CC	1946727227
SNP_P4_5567_8093934	NC_021160.1	Ca_kabuli_chr01	8093934	AA	TT	1946727229
SNP_P4_5568_8093943	NC_021160.1	Ca_kabuli_chr01	8093943	GG	TT	1946727231
SNP_P4_5569_8094064	NC_021160.1	Ca_kabuli_chr01	8094064	TT	CC	1946727233
SNP_P4_5571_8094323	NC_021160.1	Ca_kabuli_chr01	8094323	TT	CC	1946727235

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_5573_8094461	NC_021160.1	Ca_kabuli_chr01	8094461	TT	CC	1946727239
SNP_P4_5574_8094489	NC_021160.1	Ca_kabuli_chr01	8094489	TT	CC	1946727241
SNP_P4_5575_8094662	NC_021160.1	Ca_kabuli_chr01	8094662	TT	CC	1946727243
SNP_P4_5576_8094663	NC_021160.1	Ca_kabuli_chr01	8094663	CC	TT	1946727245
SNP_P4_5577_8094668	NC_021160.1	Ca_kabuli_chr01	8094668	GG	CC	1946727247
SNP_P4_5578_8094670	NC_021160.1	Ca_kabuli_chr01	8094670	GG	AA	1946727249
SNP_P4_5579_8094760	NC_021160.1	Ca_kabuli_chr01	8094760	TT	CC	1946727251
SNP_P4_5580_8096667	NC_021160.1	Ca_kabuli_chr01	8096667	CC	AA	1946727253
SNP_P4_5581_8096670	NC_021160.1	Ca_kabuli_chr01	8096670	GG	AA	1946727255
SNP_P4_5582_8098153	NC_021160.1	Ca_kabuli_chr01	8098153	AA	GG	1946727257
SNP_P4_5583_8098164	NC_021160.1	Ca_kabuli_chr01	8098164	GG	AA	1946727259
SNP_P4_5584_8099626	NC_021160.1	Ca_kabuli_chr01	8099626	GG	TT	1946727261
SNP_P4_5585_8099714	NC_021160.1	Ca_kabuli_chr01	8099714	AA	GG	1946727263
SNP_P4_5586_8099754	NC_021160.1	Ca_kabuli_chr01	8099754	TT	CC	1946727266
SNP_P4_5588_8101187	NC_021160.1	Ca_kabuli_chr01	8101187	CC	AA	1946727268
SNP_P4_5589_8101240	NC_021160.1	Ca_kabuli_chr01	8101240	GG	AA	1946727271
SNP_P4_5591_8101314	NC_021160.1	Ca_kabuli_chr01	8101314	AA	GG	1946727273
SNP_P4_5592_8101390	NC_021160.1	Ca_kabuli_chr01	8101390	CC	TT	1946727274
SNP_P4_5593_8101394	NC_021160.1	Ca_kabuli_chr01	8101394	GG	AA	1946727276
SNP_P4_5594_8101395	NC_021160.1	Ca_kabuli_chr01	8101395	GG	AA	1946727278
SNP_P4_5595_8101510	NC_021160.1	Ca_kabuli_chr01	8101510	AA	CC	1946727280
SNP_P4_5596_8101524	NC_021160.1	Ca_kabuli_chr01	8101524	CC	GG	1946727282
SNP_P4_5597_8101605	NC_021160.1	Ca_kabuli_chr01	8101605	TT	CC	1946727284
SNP_P4_5598_8101606	NC_021160.1	Ca_kabuli_chr01	8101606	CC	AA	1946727286
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SNP_P4_5601_8101918	NC_021160.1	Ca_kabuli_chr01	8101918	TT	GG	1946727292
SNP_P4_5602_8101922	NC_021160.1	Ca_kabuli_chr01	8101922	GG	TT	1946727294
SNP_P4_5603_8101924	NC_021160.1	Ca_kabuli_chr01	8101924	AA	TT	1946727296
SNP_P4_5605_8102663	NC_021160.1	Ca_kabuli_chr01	8102663	CC	TT	1946727298
SNP_P4_5606_8102664	NC_021160.1	Ca_kabuli_chr01	8102664	GG	AA	1946727300
SNP_P4_5607_8102669	NC_021160.1	Ca_kabuli_chr01	8102669	TT	CC	1946727302
SNP_P4_5608_8102731	NC_021160.1	Ca_kabuli_chr01	8102731	TT	AA	1946727304
SNP_P4_5609_8102733	NC_021160.1	Ca_kabuli_chr01	8102733	TT	CC	1946727305
SNP_P4_5610_8104600	NC_021160.1	Ca_kabuli_chr01	8104600	TT	AA	1946727307
SNP_P4_5611_8104622	NC_021160.1	Ca_kabuli_chr01	8104622	CC	GG	1946727309
SNP_P4_5612_8104672	NC_021160.1	Ca_kabuli_chr01	8104672	AA	TT	1946727311
SNP_P4_5613_8105625	NC_021160.1	Ca_kabuli_chr01	8105625	TT	CC	1946727313
SNP_P4_5614_8106672	NC_021160.1	Ca_kabuli_chr01	8106672	AA	GG	1946727315
SNP_P4_5615_8106699	NC_021160.1	Ca_kabuli_chr01	8106699	GG	AA	1946727316
SNP_P4_5616_8106776	NC_021160.1	Ca_kabuli_chr01	8106776	CC	TT	1946727317

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_5618_8106832	NC_021160.1	Ca_kabuli_chr01	8106832	TT	CC	1946727319
SNP_P4_5619_8106848	NC_021160.1	Ca_kabuli_chr01	8106848	AA	CC	1946727321
SNP_P4_5620_8106873	NC_021160.1	Ca_kabuli_chr01	8106873	GG	AA	1946727323
SNP_P4_5621_8106909	NC_021160.1	Ca_kabuli_chr01	8106909	TT	GG	1946727325
SNP_P4_5622_8106928	NC_021160.1	Ca_kabuli_chr01	8106928	GG	TT	1946727327
SNP_P4_5623_8106930	NC_021160.1	Ca_kabuli_chr01	8106930	CC	TT	1946727329
SNP_P4_5624_8106999	NC_021160.1	Ca_kabuli_chr01	8106999	CC	TT	1946727331
SNP_P4_5626_8108014	NC_021160.1	Ca_kabuli_chr01	8108014	CC	TT	1946727333
SNP_P4_5627_8108699	NC_021160.1	Ca_kabuli_chr01	8108699	AA	CC	1946727335
SNP_P4_5628_8109959	NC_021160.1	Ca_kabuli_chr01	8109959	AA	GG	1946727337
SNP_P4_5629_8111588	NC_021160.1	Ca_kabuli_chr01	8111588	GG	AA	1946727339
SNP_P4_5630_8113398	NC_021160.1	Ca_kabuli_chr01	8113398	CC	GG	1946727341
SNP_P4_5631_8113449	NC_021160.1	Ca_kabuli_chr01	8113449	TT	AA	1946727343
SNP_P4_5632_8114997	NC_021160.1	Ca_kabuli_chr01	8114997	TT	GG	1946727345
SNP_P4_5633_8115156	NC_021160.1	Ca_kabuli_chr01	8115156	AA	GG	1946727347
SNP_P4_5635_8116643	NC_021160.1	Ca_kabuli_chr01	8116643	TT	AA	1946727349
SNP_P4_5636_8116667	NC_021160.1	Ca_kabuli_chr01	8116667	AA	GG	1946727351
SNP_P4_5637_8116704	NC_021160.1	Ca_kabuli_chr01	8116704	AA	GG	1946727353
SNP_P4_5638_8116736	NC_021160.1	Ca_kabuli_chr01	8116736	GG	AA	1946727355
SNP_P4_5639_8116801	NC_021160.1	Ca_kabuli_chr01	8116801	AA	TT	1946727357
SNP_P4_5640_8116827	NC_021160.1	Ca_kabuli_chr01	8116827	AA	TT	1946727359
SNP_P4_5642_8117263	NC_021160.1	Ca_kabuli_chr01	8117263	CC	TT	1946727361
SNP_P4_5643_8117509	NC_021160.1	Ca_kabuli_chr01	8117509	GG	AA	1946727363
SNP_P4_5644_8117942	NC_021160.1	Ca_kabuli_chr01	8117942	TT	CC	1946727365
SNP_P4_5645_8118063	NC_021160.1	Ca_kabuli_chr01	8118063	GG	AA	1946727367
SNP_P4_5646_8118064	NC_021160.1	Ca_kabuli_chr01	8118064	GG	AA	1946727369
SNP_P4_5647_8118096	NC_021160.1	Ca_kabuli_chr01	8118096	TT	CC	1946727371
SNP_P4_5648_8118671	NC_021160.1	Ca_kabuli_chr01	8118671	AA	CC	1946727373
SNP_P4_5649_8121710	NC_021160.1	Ca_kabuli_chr01	8121710	AA	TT	1946727375
SNP_P4_5650_8122330	NC_021160.1	Ca_kabuli_chr01	8122330	CC	TT	1946727377
SNP_P4_5651_8123767	NC_021160.1	Ca_kabuli_chr01	8123767	GG	AA	1946727379
SNP_P4_5652_8123781	NC_021160.1	Ca_kabuli_chr01	8123781	CC	GG	1946727381
SNP_P4_5653_8123865	NC_021160.1	Ca_kabuli_chr01	8123865	TT	GG	1946727383
SNP_P4_5654_8123877	NC_021160.1	Ca_kabuli_chr01	8123877	TT	CC	1946727385
SNP_P4_5656_8124173	NC_021160.1	Ca_kabuli_chr01	8124173	AA	CC	1946727387
SNP_P4_5657_8124184	NC_021160.1	Ca_kabuli_chr01	8124184	AA	TT	1946727389
SNP_P4_5658_8124667	NC_021160.1	Ca_kabuli_chr01	8124667	TT	CC	1946727391
SNP_P4_5659_8124679	NC_021160.1	Ca_kabuli_chr01	8124679	GG	AA	1946727394
SNP_P4_5660_8124713	NC_021160.1	Ca_kabuli_chr01	8124713	AA	GG	1946727396
SNP_P4_5661_8124754	NC_021160.1	Ca_kabuli_chr01	8124754	GG	AA	1946727398
SNP_P4_5662_8125002	NC_021160.1	Ca_kabuli_chr01	8125002	GG	AA	1946727400

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_5664_8125585	NC_021160.1	Ca_kabuli_chr01	8125585	AA	GG	1946727404
SNP_P4_5665_8126025	NC_021160.1	Ca_kabuli_chr01	8126025	AA	GG	1946727406
SNP_P4_5666_8126030	NC_021160.1	Ca_kabuli_chr01	8126030	GG	AA	1946727408
SNP_P4_5667_8126031	NC_021160.1	Ca_kabuli_chr01	8126031	AA	GG	1946727410
SNP_P4_5668_8126037	NC_021160.1	Ca_kabuli_chr01	8126037	AA	GG	1946727412
SNP_P4_5669_8126188	NC_021160.1	Ca_kabuli_chr01	8126188	AA	TT	1946727414
SNP_P4_5670_8126199	NC_021160.1	Ca_kabuli_chr01	8126199	AA	TT	1946727416
SNP_P4_5671_8127143	NC_021160.1	Ca_kabuli_chr01	8127143	TT	CC	1946727418
SNP_P4_5672_8127802	NC_021160.1	Ca_kabuli_chr01	8127802	CC	AA	1946727420
SNP_P4_5673_8127840	NC_021160.1	Ca_kabuli_chr01	8127840	TT	CC	1946727422
SNP_P4_5674_8128119	NC_021160.1	Ca_kabuli_chr01	8128119	GG	CC	1946727424
SNP_P4_5675_8128122	NC_021160.1	Ca_kabuli_chr01	8128122	GG	TT	1946727426
SNP_P4_5676_8128130	NC_021160.1	Ca_kabuli_chr01	8128130	AA	GG	1946727428
SNP_P4_5677_8128134	NC_021160.1	Ca_kabuli_chr01	8128134	CC	AA	1946727430
SNP_P4_5678_8130119	NC_021160.1	Ca_kabuli_chr01	8130119	AA	TT	1946727432
SNP_P4_5680_8130303	NC_021160.1	Ca_kabuli_chr01	8130303	GG	AA	1946727434
SNP_P4_5682_8131250	NC_021160.1	Ca_kabuli_chr01	8131250	TT	AA	1946727436
SNP_P4_5683_8131270	NC_021160.1	Ca_kabuli_chr01	8131270	AA	CC	1946727438
SNP_P4_5684_8131293	NC_021160.1	Ca_kabuli_chr01	8131293	AA	GG	1946727440
SNP_P4_5685_8131436	NC_021160.1	Ca_kabuli_chr01	8131436	CC	GG	1946727442
SNP_P4_5686_8131450	NC_021160.1	Ca_kabuli_chr01	8131450	TT	AA	1946727444
SNP_P4_5687_8131454	NC_021160.1	Ca_kabuli_chr01	8131454	GG	CC	1946727446
SNP_P4_5688_8131499	NC_021160.1	Ca_kabuli_chr01	8131499	TT	CC	1946727448
SNP_P4_5689_8131511	NC_021160.1	Ca_kabuli_chr01	8131511	CC	TT	1946727450
SNP_P4_5690_8131684	NC_021160.1	Ca_kabuli_chr01	8131684	AA	GG	1946727452
SNP_P4_5691_8131703	NC_021160.1	Ca_kabuli_chr01	8131703	AA	CC	1946727454
SNP_P4_5692_8132176	NC_021160.1	Ca_kabuli_chr01	8132176	AA	CC	1946727456
SNP_P4_5693_8132190	NC_021160.1	Ca_kabuli_chr01	8132190	TT	CC	1946727458
SNP_P4_5694_8133060	NC_021160.1	Ca_kabuli_chr01	8133060	AA	CC	1946727460
SNP_P4_5695_8133066	NC_021160.1	Ca_kabuli_chr01	8133066	TT	CC	1946727462
SNP_P4_5696_8133097	NC_021160.1	Ca_kabuli_chr01	8133097	TT	CC	1946727464
SNP_P4_5697_8133163	NC_021160.1	Ca_kabuli_chr01	8133163	CC	TT	1946727466
SNP_P4_5698_8133892	NC_021160.1	Ca_kabuli_chr01	8133892	CC	TT	1946727468
SNP_P4_5699_8133912	NC_021160.1	Ca_kabuli_chr01	8133912	CC	TT	1946727470
SNP_P4_5701_8134134	NC_021160.1	Ca_kabuli_chr01	8134134	CC	GG	1946727472
SNP_P4_5702_8134171	NC_021160.1	Ca_kabuli_chr01	8134171	CC	TT	1946727474
SNP_P4_5703_8134179	NC_021160.1	Ca_kabuli_chr01	8134179	TT	AA	1946727476
SNP_P4_5704_8136425	NC_021160.1	Ca_kabuli_chr01	8136425	AA	GG	1946727478
SNP_P4_5705_8136429	NC_021160.1	Ca_kabuli_chr01	8136429	TT	CC	1946727481
SNP_P4_5706_8136598	NC_021160.1	Ca_kabuli_chr01	8136598	GG	AA	1946727483
SNP_P4_5707_8136603	NC_021160.1	Ca_kabuli_chr01	8136603	GG	AA	1946727485

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_5709_8136614	NC_021160.1	Ca_kabuli_chr01	8136614	TT	CC	1946727489
SNP_P4_5710_8136615	NC_021160.1	Ca_kabuli_chr01	8136615	CC	TT	1946727491
SNP_P4_5711_8136824	NC_021160.1	Ca_kabuli_chr01	8136824	AA	TT	1946727493
SNP_P4_5712_8136977	NC_021160.1	Ca_kabuli_chr01	8136977	CC	TT	1946727495
SNP_P4_5713_8142816	NC_021160.1	Ca_kabuli_chr01	8142816	CC	AA	1946727497
SNP_P4_5714_8142826	NC_021160.1	Ca_kabuli_chr01	8142826	GG	TT	1946727499
SNP_P4_5715_8143673	NC_021160.1	Ca_kabuli_chr01	8143673	TT	GG	1946727501
SNP_P4_5716_8143678	NC_021160.1	Ca_kabuli_chr01	8143678	TT	CC	1946727503
SNP_P4_5717_8143703	NC_021160.1	Ca_kabuli_chr01	8143703	AA	GG	1946727505
SNP_P4_5718_8143731	NC_021160.1	Ca_kabuli_chr01	8143731	GG	AA	1946727507
SNP_P4_5719_8143745	NC_021160.1	Ca_kabuli_chr01	8143745	CC	TT	1946727509
SNP_P4_5720_8143946	NC_021160.1	Ca_kabuli_chr01	8143946	AA	GG	1946727511
SNP_P4_5721_8150251	NC_021160.1	Ca_kabuli_chr01	8150251	TT	AA	1946727513
SNP_P4_5722_8150630	NC_021160.1	Ca_kabuli_chr01	8150630	CC	AA	1946727515
SNP_P4_5723_8151197	NC_021160.1	Ca_kabuli_chr01	8151197	AA	GG	1946727517
SNP_P4_5724_8155933	NC_021160.1	Ca_kabuli_chr01	8155933	TT	CC	1946727519
SNP_P4_5725_8159745	NC_021160.1	Ca_kabuli_chr01	8159745	GG	AA	1946727521
SNP_P4_5726_8159777	NC_021160.1	Ca_kabuli_chr01	8159777	AA	GG	1946727524
SNP_P4_5727_8163143	NC_021160.1	Ca_kabuli_chr01	8163143	AA	GG	1946727526
SNP_P4_5728_8170936	NC_021160.1	Ca_kabuli_chr01	8170936	TT	CC	1946727528
SNP_P4_5729_8180770	NC_021160.1	Ca_kabuli_chr01	8180770	AA	GG	1946727530
SNP_P4_5730_8185932	NC_021160.1	Ca_kabuli_chr01	8185932	AA	TT	1946727532
SNP_P4_5731_8193461	NC_021160.1	Ca_kabuli_chr01	8193461	CC	AA	1946727534
SNP_P4_5732_8197698	NC_021160.1	Ca_kabuli_chr01	8197698	AA	TT	1946727536
SNP_P4_5733_8245974	NC_021160.1	Ca_kabuli_chr01	8245974	CC	TT	1946727538
SNP_P4_5734_8247975	NC_021160.1	Ca_kabuli_chr01	8247975	TT	CC	1946727540
SNP_P4_5736_8281001	NC_021160.1	Ca_kabuli_chr01	8281001	TT	AA	1946727542
SNP_P4_5737_8281005	NC_021160.1	Ca_kabuli_chr01	8281005	TT	CC	1946727544
SNP_P4_5738_8318379	NC_021160.1	Ca_kabuli_chr01	8318379	GG	AA	1946727546
SNP_P4_5739_8318430	NC_021160.1	Ca_kabuli_chr01	8318430	AA	GG	1946727548
SNP_P4_5740_8318469	NC_021160.1	Ca_kabuli_chr01	8318469	TT	GG	1946727551
SNP_P4_5742_8319459	NC_021160.1	Ca_kabuli_chr01	8319459	AA	GG	1946727553
SNP_P4_5743_8321965	NC_021160.1	Ca_kabuli_chr01	8321965	AA	GG	1946727555
SNP_P4_5745_8336331	NC_021160.1	Ca_kabuli_chr01	8336331	TT	GG	1946727557
SNP_P4_5746_8336335	NC_021160.1	Ca_kabuli_chr01	8336335	TT	GG	1946727559
SNP_P4_5749_8407457	NC_021160.1	Ca_kabuli_chr01	8407457	GG	AA	1946727561
SNP_P4_5750_8415316	NC_021160.1	Ca_kabuli_chr01	8415316	CC	GG	1946727563
SNP_P4_5751_8415326	NC_021160.1	Ca_kabuli_chr01	8415326	GG	TT	1946727565
SNP_P4_5752_8415385	NC_021160.1	Ca_kabuli_chr01	8415385	AA	GG	1946727567
SNP_P4_5753_8415394	NC_021160.1	Ca_kabuli_chr01	8415394	CC	TT	1946727569
SNP_P4_5754_8415470	NC_021160.1	Ca_kabuli_chr01	8415470	GG	AA	1946727571

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_5757_8425932	NC_021160.1	Ca_kabuli_chr01	8425932	CC	TT	1946727575
SNP_P4_5758_8425933	NC_021160.1	Ca_kabuli_chr01	8425933	AA	CC	1946727577
SNP_P4_5759_8427327	NC_021160.1	Ca_kabuli_chr01	8427327	TT	CC	1946727580
SNP_P4_5760_8427394	NC_021160.1	Ca_kabuli_chr01	8427394	AA	TT	1946727582
SNP_P4_5761_8427564	NC_021160.1	Ca_kabuli_chr01	8427564	CC	AA	1946727584
SNP_P4_5762_8427606	NC_021160.1	Ca_kabuli_chr01	8427606	TT	GG	1946727586
SNP_P4_5763_8427825	NC_021160.1	Ca_kabuli_chr01	8427825	CC	TT	1946727587
SNP_P4_5764_8428083	NC_021160.1	Ca_kabuli_chr01	8428083	TT	CC	1946727588
SNP_P4_5765_8428095	NC_021160.1	Ca_kabuli_chr01	8428095	AA	GG	1946727589
SNP_P4_5766_8428141	NC_021160.1	Ca_kabuli_chr01	8428141	TT	CC	1946727590
SNP_P4_5767_8430402	NC_021160.1	Ca_kabuli_chr01	8430402	CC	TT	1946727591
SNP_P4_5769_8430599	NC_021160.1	Ca_kabuli_chr01	8430599	TT	AA	1946727592
SNP_P4_5770_8430606	NC_021160.1	Ca_kabuli_chr01	8430606	AA	GG	1946727593
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SNP_P4_5773_8434679	NC_021160.1	Ca_kabuli_chr01	8434679	TT	CC	1946727595
SNP_P4_5774_8434873	NC_021160.1	Ca_kabuli_chr01	8434873	CC	TT	1946727596
SNP_P4_5775_8434909	NC_021160.1	Ca_kabuli_chr01	8434909	GG	TT	1946727597
SNP_P4_5776_8434995	NC_021160.1	Ca_kabuli_chr01	8434995	AA	GG	1946727598
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SNP_P4_5778_8435018	NC_021160.1	Ca_kabuli_chr01	8435018	AA	GG	1946727600
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SNP_P4_5780_8435109	NC_021160.1	Ca_kabuli_chr01	8435109	TT	CC	1946727602
SNP_P4_5781_8435167	NC_021160.1	Ca_kabuli_chr01	8435167	GG	AA	1946727603
SNP_P4_5783_8439624	NC_021160.1	Ca_kabuli_chr01	8439624	CC	AA	1946727605
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SNP_P4_5786_8482778	NC_021160.1	Ca_kabuli_chr01	8482778	TT	CC	1946727611
SNP_P4_5787_8511952	NC_021160.1	Ca_kabuli_chr01	8511952	CC	GG	1946727613
SNP_P4_5788_8514793	NC_021160.1	Ca_kabuli_chr01	8514793	CC	GG	1946727615
SNP_P4_5789_8515287	NC_021160.1	Ca_kabuli_chr01	8515287	GG	AA	1946727617
SNP_P4_5790_8558380	NC_021160.1	Ca_kabuli_chr01	8558380	CC	GG	1946727619
SNP_P4_5791_8566494	NC_021160.1	Ca_kabuli_chr01	8566494	CC	GG	1946727621
SNP_P4_5792_8575110	NC_021160.1	Ca_kabuli_chr01	8575110	AA	CC	1946727623
SNP_P4_5794_8596181	NC_021160.1	Ca_kabuli_chr01	8596181	TT	CC	1946727625
SNP_P4_5795_8621401	NC_021160.1	Ca_kabuli_chr01	8621401	AA	TT	1946727627
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SNP_P4_5797_8659443	NC_021160.1	Ca_kabuli_chr01	8659443	GG	TT	1946727631
SNP_P4_5798_8659875	NC_021160.1	Ca_kabuli_chr01	8659875	GG	AA	1946727633
SNP_P4_5799_8660773	NC_021160.1	Ca_kabuli_chr01	8660773	CC	TT	1946727635
SNP_P4_5800_8661179	NC_021160.1	Ca_kabuli_chr01	8661179	AA	GG	1946727637
SNP_P4_5801_8661667	NC_021160.1	Ca_kabuli_chr01	8661667	AA	GG	1946727640

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_5804_8714406	NC_021160.1	Ca_kabuli_chr01	8714406	TT	AA	1946727645
SNP_P4_5805_8731335	NC_021160.1	Ca_kabuli_chr01	8731335	CC	TT	1946727647
SNP_P4_5806_8797851	NC_021160.1	Ca_kabuli_chr01	8797851	CC	TT	1946727649
SNP_P4_5807_8797893	NC_021160.1	Ca_kabuli_chr01	8797893	TT	AA	1946727651
SNP_P4_5808_8797898	NC_021160.1	Ca_kabuli_chr01	8797898	CC	TT	1946727653
SNP_P4_5809_8799626	NC_021160.1	Ca_kabuli_chr01	8799626	TT	CC	1946727656
SNP_P4_5810_8835306	NC_021160.1	Ca_kabuli_chr01	8835306	CC	TT	1946727658
SNP_P4_5812_8879006	NC_021160.1	Ca_kabuli_chr01	8879006	AA	GG	1946727660
SNP_P4_5813_8883318	NC_021160.1	Ca_kabuli_chr01	8883318	CC	TT	1946727662
SNP_P4_5815_8909430	NC_021160.1	Ca_kabuli_chr01	8909430	AA	CC	1946727664
SNP_P4_5816_8909441	NC_021160.1	Ca_kabuli_chr01	8909441	AA	CC	1946727666
SNP_P4_5817_8984325	NC_021160.1	Ca_kabuli_chr01	8984325	TT	CC	1946727668
SNP_P4_5818_9013283	NC_021160.1	Ca_kabuli_chr01	9013283	AA	GG	1946727670
SNP_P4_5819_9023011	NC_021160.1	Ca_kabuli_chr01	9023011	GG	AA	1946727672
SNP_P4_5820_9082410	NC_021160.1	Ca_kabuli_chr01	9082410	GG	AA	1946727674
SNP_P4_5822_9107888	NC_021160.1	Ca_kabuli_chr01	9107888	GG	AA	1946727676
SNP_P4_5824_9148295	NC_021160.1	Ca_kabuli_chr01	9148295	AA	CC	1946727678
SNP_P4_5827_9232817	NC_021160.1	Ca_kabuli_chr01	9232817	CC	TT	1946727680
SNP_P4_5828_9232818	NC_021160.1	Ca_kabuli_chr01	9232818	TT	GG	1946727682
SNP_P4_5829_9233030	NC_021160.1	Ca_kabuli_chr01	9233030	AA	CC	1946727684
SNP_P4_5830_9233050	NC_021160.1	Ca_kabuli_chr01	9233050	TT	CC	1946727686
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SNP_P4_5836_9233120	NC_021160.1	Ca_kabuli_chr01	9233120	CC	TT	1946727698
SNP_P4_5837_9233261	NC_021160.1	Ca_kabuli_chr01	9233261	CC	TT	1946727700
SNP_P4_5838_9233276	NC_021160.1	Ca_kabuli_chr01	9233276	CC	TT	1946727702
SNP_P4_5839_9233287	NC_021160.1	Ca_kabuli_chr01	9233287	CC	AA	1946727704
SNP_P4_5840_9233305	NC_021160.1	Ca_kabuli_chr01	9233305	CC	TT	1946727706
SNP_P4_5841_9233316	NC_021160.1	Ca_kabuli_chr01	9233316	TT	CC	1946727708
SNP_P4_5842_9233391	NC_021160.1	Ca_kabuli_chr01	9233391	TT	CC	1946727710
SNP_P4_5843_9233489	NC_021160.1	Ca_kabuli_chr01	9233489	GG	AA	1946727712
SNP_P4_5844_9233679	NC_021160.1	Ca_kabuli_chr01	9233679	GG	AA	1946727714
SNP_P4_5845_9233682	NC_021160.1	Ca_kabuli_chr01	9233682	GG	TT	1946727716
SNP_P4_5846_9233773	NC_021160.1	Ca_kabuli_chr01	9233773	GG	AA	1946727718
SNP_P4_5847_9233774	NC_021160.1	Ca_kabuli_chr01	9233774	CC	TT	1946727720
SNP_P4_5849_9233913	NC_021160.1	Ca_kabuli_chr01	9233913	TT	AA	1946727722
SNP_P4_5850_9233918	NC_021160.1	Ca_kabuli_chr01	9233918	TT	AA	1946727724

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_5851_9233982	NC_021160.1	Ca_kabuli_chr01	9233982	CC	TT	1946727726
SNP_P4_5852_9233989	NC_021160.1	Ca_kabuli_chr01	9233989	TT	GG	1946727728
SNP_P4_5853_9233999	NC_021160.1	Ca_kabuli_chr01	9233999	TT	CC	1946727730
SNP_P4_5854_9234006	NC_021160.1	Ca_kabuli_chr01	9234006	AA	CC	1946727732
SNP_P4_5855_9234009	NC_021160.1	Ca_kabuli_chr01	9234009	AA	GG	1946727734
SNP_P4_5856_9236408	NC_021160.1	Ca_kabuli_chr01	9236408	TT	GG	1946727736
SNP_P4_5857_9236467	NC_021160.1	Ca_kabuli_chr01	9236467	AA	TT	1946727738
SNP_P4_5858_9241237	NC_021160.1	Ca_kabuli_chr01	9241237	TT	CC	1946727740
SNP_P4_5859_9242572	NC_021160.1	Ca_kabuli_chr01	9242572	CC	TT	1946727742
SNP_P4_5861_9306444	NC_021160.1	Ca_kabuli_chr01	9306444	GG	TT	1946727743
SNP_P4_5862_9307811	NC_021160.1	Ca_kabuli_chr01	9307811	GG	AA	1946727745
SNP_P4_5863_9322082	NC_021160.1	Ca_kabuli_chr01	9322082	TT	AA	1946727746
SNP_P4_5864_9322091	NC_021160.1	Ca_kabuli_chr01	9322091	CC	AA	1946727748
SNP_P4_5865_9322231	NC_021160.1	Ca_kabuli_chr01	9322231	GG	TT	1946727750
SNP_P4_5866_9322316	NC_021160.1	Ca_kabuli_chr01	9322316	GG	AA	1946727752
SNP_P4_5867_9322349	NC_021160.1	Ca_kabuli_chr01	9322349	AA	GG	1946727754
SNP_P4_5868_9322364	NC_021160.1	Ca_kabuli_chr01	9322364	AA	GG	1946727756
SNP_P4_5869_9322381	NC_021160.1	Ca_kabuli_chr01	9322381	AA	TT	1946727758
SNP_P4_5870_9322389	NC_021160.1	Ca_kabuli_chr01	9322389	TT	GG	1946727760
SNP_P4_5872_9326630	NC_021160.1	Ca_kabuli_chr01	9326630	GG	AA	1946727762
SNP_P4_5873_9336395	NC_021160.1	Ca_kabuli_chr01	9336395	AA	CC	1946727764
SNP_P4_5874_9351385	NC_021160.1	Ca_kabuli_chr01	9351385	CC	TT	1946727766
SNP_P4_5875_9354739	NC_021160.1	Ca_kabuli_chr01	9354739	TT	CC	1946727768
SNP_P4_5877_9356955	NC_021160.1	Ca_kabuli_chr01	9356955	TT	CC	1946727770
SNP_P4_5879_9404407	NC_021160.1	Ca_kabuli_chr01	9404407	AA	GG	1946727772
SNP_P4_5880_9436861	NC_021160.1	Ca_kabuli_chr01	9436861	AA	CC	1946727773
SNP_P4_5881_9446508	NC_021160.1	Ca_kabuli_chr01	9446508	GG	AA	1946727775
SNP_P4_5882_9457095	NC_021160.1	Ca_kabuli_chr01	9457095	AA	CC	1946727777
SNP_P4_5883_9457098	NC_021160.1	Ca_kabuli_chr01	9457098	TT	GG	1946727779
SNP_P4_5884_9470634	NC_021160.1	Ca_kabuli_chr01	9470634	AA	TT	1946727781
SNP_P4_5885_9480442	NC_021160.1	Ca_kabuli_chr01	9480442	TT	CC	1946727783
SNP_P4_5886_9489835	NC_021160.1	Ca_kabuli_chr01	9489835	GG	AA	1946727785
SNP_P4_5887_9489836	NC_021160.1	Ca_kabuli_chr01	9489836	CC	AA	1946727787
SNP_P4_5889_9510869	NC_021160.1	Ca_kabuli_chr01	9510869	CC	TT	1946727789
SNP_P4_5890_9511659	NC_021160.1	Ca_kabuli_chr01	9511659	GG	AA	1946727791
SNP_P4_5891_9511672	NC_021160.1	Ca_kabuli_chr01	9511672	TT	AA	1946727793
SNP_P4_5893_9511719	NC_021160.1	Ca_kabuli_chr01	9511719	TT	CC	1946727794
SNP_P4_5895_9516443	NC_021160.1	Ca_kabuli_chr01	9516443	TT	AA	1946727796
SNP_P4_5896_9526471	NC_021160.1	Ca_kabuli_chr01	9526471	TT	AA	1946727798
SNP_P4_5897_9526474	NC_021160.1	Ca_kabuli_chr01	9526474	TT	GG	1946727800
SNP_P4_5898_9586285	NC_021160.1	Ca_kabuli_chr01	9586285	CC	TT	1946727802
SNP_P4_5899_9601892	NC_021160.1	Ca_kabuli_chr01	9601892	GG	AA	1946727804

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_5900_9614091	NC_021160.1	Ca_kabuli_chr01	9614091	GG	TT	1946727806
SNP_P4_5901_9628175	NC_021160.1	Ca_kabuli_chr01	9628175	TT	CC	1946727808
SNP_P4_5902_9643590	NC_021160.1	Ca_kabuli_chr01	9643590	GG	AA	1946727810
SNP_P4_5905_9687150	NC_021160.1	Ca_kabuli_chr01	9687150	AA	GG	1946727812
SNP_P4_5906_9691118	NC_021160.1	Ca_kabuli_chr01	9691118	GG	AA	1946727814
SNP_P4_5907_9710482	NC_021160.1	Ca_kabuli_chr01	9710482	AA	TT	1946727816
SNP_P4_5908_9710485	NC_021160.1	Ca_kabuli_chr01	9710485	TT	CC	1946727818
SNP_P4_5909_9761975	NC_021160.1	Ca_kabuli_chr01	9761975	TT	AA	1946727820
SNP_P4_5910_9774720	NC_021160.1	Ca_kabuli_chr01	9774720	AA	GG	1946727822
SNP_P4_5911_9795988	NC_021160.1	Ca_kabuli_chr01	9795988	TT	CC	1946727824
SNP_P4_5912_9814778	NC_021160.1	Ca_kabuli_chr01	9814778	CC	TT	1946727826
SNP_P4_5913_9814783	NC_021160.1	Ca_kabuli_chr01	9814783	CC	TT	1946727828
SNP_P4_5914_9821582	NC_021160.1	Ca_kabuli_chr01	9821582	TT	AA	1946727829
SNP_P4_5918_9871699	NC_021160.1	Ca_kabuli_chr01	9871699	CC	TT	1946727913
SNP_P4_5919_9871706	NC_021160.1	Ca_kabuli_chr01	9871706	TT	CC	1946727915
SNP_P4_5920_9872004	NC_021160.1	Ca_kabuli_chr01	9872004	GG	TT	1946727918
SNP_P4_5921_9872050	NC_021160.1	Ca_kabuli_chr01	9872050	CC	AA	1946727920
SNP_P4_5922_9872096	NC_021160.1	Ca_kabuli_chr01	9872096	TT	CC	1946727922
SNP_P4_5923_9874164	NC_021160.1	Ca_kabuli_chr01	9874164	TT	CC	1946727924
SNP_P4_5924_9874192	NC_021160.1	Ca_kabuli_chr01	9874192	TT	AA	1946727926
SNP_P4_5925_9882598	NC_021160.1	Ca_kabuli_chr01	9882598	TT	CC	1946727928
SNP_P4_5926_9930340	NC_021160.1	Ca_kabuli_chr01	9930340	TT	CC	1946727930
SNP_P4_5928_9943419	NC_021160.1	Ca_kabuli_chr01	9943419	GG	AA	1946727932
SNP_P4_5929_9947980	NC_021160.1	Ca_kabuli_chr01	9947980	CC	TT	1946727934
SNP_P4_5932_9967265	NC_021160.1	Ca_kabuli_chr01	9967265	GG	AA	1946727936
SNP_P4_5933_9983903	NC_021160.1	Ca_kabuli_chr01	9983903	GG	AA	1946727938
SNP_P4_5934_9994531	NC_021160.1	Ca_kabuli_chr01	9994531	AA	GG	1946727940
SNP_P4_5936_10014996	NC_021160.1	Ca_kabuli_chr01	10014996	AA	GG	1946727942
SNP_P4_5937_10014999	NC_021160.1	Ca_kabuli_chr01	10014999	TT	CC	1946727944
SNP_P4_5939_10017847	NC_021160.1	Ca_kabuli_chr01	10017847	GG	AA	1946727946
SNP_P4_5940_10036603	NC_021160.1	Ca_kabuli_chr01	10036603	AA	GG	1946727948
SNP_P4_5945_10072103	NC_021160.1	Ca_kabuli_chr01	10072103	TT	AA	1946727950
SNP_P4_5946_10072267	NC_021160.1	Ca_kabuli_chr01	10072267	GG	AA	1946727952
SNP_P4_5947_10072410	NC_021160.1	Ca_kabuli_chr01	10072410	AA	GG	1946727954
SNP_P4_5948_10077249	NC_021160.1	Ca_kabuli_chr01	10077249	TT	AA	1946727956
SNP_P4_5949_10085809	NC_021160.1	Ca_kabuli_chr01	10085809	CC	GG	1946727958
SNP_P4_5950_10085810	NC_021160.1	Ca_kabuli_chr01	10085810	CC	TT	1946727960
SNP_P4_5951_10090731	NC_021160.1	Ca_kabuli_chr01	10090731	AA	CC	1946727962
SNP_P4_5952_10091146	NC_021160.1	Ca_kabuli_chr01	10091146	AA	GG	1946727963
SNP_P4_5954_10102140	NC_021160.1	Ca_kabuli_chr01	10102140	AA	GG	1946727965
SNP_P4_5956_10116310	NC_021160.1	Ca_kabuli_chr01	10116310	AA	GG	1946727967
SNP_P4_5957_10116323	NC_021160.1	Ca_kabuli_chr01	10116323	AA	GG	1946727969

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_5959_10116353	NC_021160.1	Ca_kabuli_chr01	10116353	AA	GG	1946727973
SNP_P4_5960_10119171	NC_021160.1	Ca_kabuli_chr01	10119171	AA	GG	1946727975
SNP_P4_5961_10188120	NC_021160.1	Ca_kabuli_chr01	10188120	CC	GG	1946727977
SNP_P4_5962_10190686	NC_021160.1	Ca_kabuli_chr01	10190686	TT	GG	1946727979
SNP_P4_5963_10190689	NC_021160.1	Ca_kabuli_chr01	10190689	AA	GG	1946727981
SNP_P4_5964_10199763	NC_021160.1	Ca_kabuli_chr01	10199763	CC	TT	1946727983
SNP_P4_5965_10231784	NC_021160.1	Ca_kabuli_chr01	10231784	CC	TT	1946727985
SNP_P4_5966_10234271	NC_021160.1	Ca_kabuli_chr01	10234271	AA	TT	1946727987
SNP_P4_5967_10237344	NC_021160.1	Ca_kabuli_chr01	10237344	CC	GG	1946727989
SNP_P4_5968_10256061	NC_021160.1	Ca_kabuli_chr01	10256061	AA	GG	1946727991
SNP_P4_5970_10285446	NC_021160.1	Ca_kabuli_chr01	10285446	CC	TT	1946727993
SNP_P4_5971_10345078	NC_021160.1	Ca_kabuli_chr01	10345078	CC	AA	1946727995
SNP_P4_5972_10345118	NC_021160.1	Ca_kabuli_chr01	10345118	CC	TT	1946727997
SNP_P4_5974_10367101	NC_021160.1	Ca_kabuli_chr01	10367101	AA	GG	1946727999
SNP_P4_5975_10418064	NC_021160.1	Ca_kabuli_chr01	10418064	TT	GG	1946728001
SNP_P4_5976_10418082	NC_021160.1	Ca_kabuli_chr01	10418082	CC	TT	1946728003
SNP_P4_5977_10418100	NC_021160.1	Ca_kabuli_chr01	10418100	AA	TT	1946728005
SNP_P4_5981_10489857	NC_021160.1	Ca_kabuli_chr01	10489857	AA	TT	1946728006
SNP_P4_5982_10489931	NC_021160.1	Ca_kabuli_chr01	10489931	AA	TT	1946728008
SNP_P4_5983_10508424	NC_021160.1	Ca_kabuli_chr01	10508424	TT	GG	1946728010
SNP_P4_5986_10544577	NC_021160.1	Ca_kabuli_chr01	10544577	GG	CC	1946728012
SNP_P4_5987_10576598	NC_021160.1	Ca_kabuli_chr01	10576598	TT	GG	1946728014
SNP_P4_5988_10577344	NC_021160.1	Ca_kabuli_chr01	10577344	GG	AA	1946728016
SNP_P4_5989_10577389	NC_021160.1	Ca_kabuli_chr01	10577389	TT	CC	1946728018
SNP_P4_5990_10577503	NC_021160.1	Ca_kabuli_chr01	10577503	CC	GG	1946728020
SNP_P4_5991_10577586	NC_021160.1	Ca_kabuli_chr01	10577586	AA	GG	1946728022
SNP_P4_5992_10577932	NC_021160.1	Ca_kabuli_chr01	10577932	CC	TT	1946728023
SNP_P4_5993_10578019	NC_021160.1	Ca_kabuli_chr01	10578019	TT	GG	1946728025
SNP_P4_5994_10586902	NC_021160.1	Ca_kabuli_chr01	10586902	CC	AA	1946728027
SNP_P4_5995_10619942	NC_021160.1	Ca_kabuli_chr01	10619942	CC	TT	1946728029
SNP_P4_5996_10626384	NC_021160.1	Ca_kabuli_chr01	10626384	AA	CC	1946728031
SNP_P4_5998_10732181	NC_021160.1	Ca_kabuli_chr01	10732181	AA	GG	1946728033
SNP_P4_6000_10756172	NC_021160.1	Ca_kabuli_chr01	10756172	GG	AA	1946728035
SNP_P4_6001_10781922	NC_021160.1	Ca_kabuli_chr01	10781922	TT	CC	1946728037
SNP_P4_6002_10795881	NC_021160.1	Ca_kabuli_chr01	10795881	CC	TT	1946728039
SNP_P4_6005_10829213	NC_021160.1	Ca_kabuli_chr01	10829213	TT	CC	1946728041
SNP_P4_6006_10829268	NC_021160.1	Ca_kabuli_chr01	10829268	CC	TT	1946728043
SNP_P4_6007_10829595	NC_021160.1	Ca_kabuli_chr01	10829595	TT	CC	1946728045
SNP_P4_6008_10846274	NC_021160.1	Ca_kabuli_chr01	10846274	AA	TT	1946728047
SNP_P4_6010_10855340	NC_021160.1	Ca_kabuli_chr01	10855340	TT	AA	1946728049
SNP_P4_6011_10856482	NC_021160.1	Ca_kabuli_chr01	10856482	TT	CC	1946728051

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_6012_10856530	NC_021160.1	Ca_kabuli_chr01	10856530	TT	CC	1946728053
SNP_P4_6013_10856558	NC_021160.1	Ca_kabuli_chr01	10856558	AA	CC	1946728055
SNP_P4_6014_10856577	NC_021160.1	Ca_kabuli_chr01	10856577	CC	TT	1946728057
SNP_P4_6015_10856583	NC_021160.1	Ca_kabuli_chr01	10856583	TT	GG	1946728059
SNP_P4_6016_10856593	NC_021160.1	Ca_kabuli_chr01	10856593	AA	GG	1946728062
SNP_P4_6017_10856616	NC_021160.1	Ca_kabuli_chr01	10856616	TT	GG	1946728064
SNP_P4_6018_10856841	NC_021160.1	Ca_kabuli_chr01	10856841	AA	GG	1946728066
SNP_P4_6019_10856862	NC_021160.1	Ca_kabuli_chr01	10856862	AA	GG	1946728068
SNP_P4_6020_10856912	NC_021160.1	Ca_kabuli_chr01	10856912	AA	GG	1946728070
SNP_P4_6021_10856913	NC_021160.1	Ca_kabuli_chr01	10856913	CC	AA	1946728072
SNP_P4_6022_10862664	NC_021160.1	Ca_kabuli_chr01	10862664	GG	CC	1946728074
SNP_P4_6023_10867095	NC_021160.1	Ca_kabuli_chr01	10867095	CC	TT	1946728076
SNP_P4_6024_10898096	NC_021160.1	Ca_kabuli_chr01	10898096	AA	CC	1946728078
SNP_P4_6025_10916429	NC_021160.1	Ca_kabuli_chr01	10916429	AA	GG	1946728080
SNP_P4_6026_10916453	NC_021160.1	Ca_kabuli_chr01	10916453	TT	CC	1946728082
SNP_P4_6027_10916473	NC_021160.1	Ca_kabuli_chr01	10916473	TT	CC	1946728084
SNP_P4_6028_10916477	NC_021160.1	Ca_kabuli_chr01	10916477	TT	AA	1946728086
SNP_P4_6029_10916575	NC_021160.1	Ca_kabuli_chr01	10916575	CC	AA	1946728088
SNP_P4_6030_10916585	NC_021160.1	Ca_kabuli_chr01	10916585	TT	CC	1946728090
SNP_P4_6031_10916654	NC_021160.1	Ca_kabuli_chr01	10916654	TT	CC	1946728091
SNP_P4_6032_10916672	NC_021160.1	Ca_kabuli_chr01	10916672	AA	CC	1946728093
SNP_P4_6033_10916765	NC_021160.1	Ca_kabuli_chr01	10916765	CC	AA	1946728095
SNP_P4_6034_10921417	NC_021160.1	Ca_kabuli_chr01	10921417	TT	CC	1946728097
SNP_P4_6035_10936167	NC_021160.1	Ca_kabuli_chr01	10936167	AA	TT	1946728099
SNP_P4_6036_10958841	NC_021160.1	Ca_kabuli_chr01	10958841	AA	TT	1946728101
SNP_P4_6037_11023123	NC_021160.1	Ca_kabuli_chr01	11023123	CC	TT	1946728103
SNP_P4_6038_11023605	NC_021160.1	Ca_kabuli_chr01	11023605	AA	GG	1946728105
SNP_P4_6039_11104389	NC_021160.1	Ca_kabuli_chr01	11104389	AA	GG	1946728107
SNP_P4_6040_11112572	NC_021160.1	Ca_kabuli_chr01	11112572	AA	CC	1946728109
SNP_P4_6041_11126547	NC_021160.1	Ca_kabuli_chr01	11126547	CC	TT	1946728112
SNP_P4_6047_11169380	NC_021160.1	Ca_kabuli_chr01	11169380	CC	TT	1946728114
SNP_P4_6048_11176118	NC_021160.1	Ca_kabuli_chr01	11176118	CC	AA	1946728118
SNP_P4_6050_11214205	NC_021160.1	Ca_kabuli_chr01	11214205	TT	CC	1946728121
SNP_P4_6051_11217838	NC_021160.1	Ca_kabuli_chr01	11217838	AA	GG	1946728123
SNP_P4_6052_11217846	NC_021160.1	Ca_kabuli_chr01	11217846	TT	CC	1946728125
SNP_P4_6053_11217858	NC_021160.1	Ca_kabuli_chr01	11217858	CC	TT	1946728127
SNP_P4_6054_11217866	NC_021160.1	Ca_kabuli_chr01	11217866	TT	GG	1946728129
SNP_P4_6055_11218110	NC_021160.1	Ca_kabuli_chr01	11218110	CC	TT	1946728131
SNP_P4_6056_11218149	NC_021160.1	Ca_kabuli_chr01	11218149	TT	CC	1946728132
SNP_P4_6057_11232275	NC_021160.1	Ca_kabuli_chr01	11232275	GG	TT	1946728134
SNP_P4_6058_11232283	NC_021160.1	Ca_kabuli_chr01	11232283	CC	TT	1946728136
SNP_P4_6060_11255784	NC_021160.1	Ca_kabuli_chr01	11255784	TT	CC	1946728138

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_6062_11263476	NC_021160.1	Ca_kabuli_chr01	11263476	TT	GG	1946728142
SNP_P4_6063_11288041	NC_021160.1	Ca_kabuli_chr01	11288041	CC	AA	1946728144
SNP_P4_6064_11297868	NC_021160.1	Ca_kabuli_chr01	11297868	AA	TT	1946728146
SNP_P4_6065_11301553	NC_021160.1	Ca_kabuli_chr01	11301553	TT	GG	1946728148
SNP_P4_6066_11302636	NC_021160.1	Ca_kabuli_chr01	11302636	CC	TT	1946728150
SNP_P4_6067_11302697	NC_021160.1	Ca_kabuli_chr01	11302697	AA	GG	1946728152
SNP_P4_6068_11302753	NC_021160.1	Ca_kabuli_chr01	11302753	CC	TT	1946728154
SNP_P4_6069_11302901	NC_021160.1	Ca_kabuli_chr01	11302901	TT	GG	1946728156
SNP_P4_6070_11302902	NC_021160.1	Ca_kabuli_chr01	11302902	GG	TT	1946728157
SNP_P4_6071_11302905	NC_021160.1	Ca_kabuli_chr01	11302905	AA	TT	1946728159
SNP_P4_6072_11303113	NC_021160.1	Ca_kabuli_chr01	11303113	CC	TT	1946728161
SNP_P4_6073_11340986	NC_021160.1	Ca_kabuli_chr01	11340986	CC	TT	1946728163
SNP_P4_6074_11341189	NC_021160.1	Ca_kabuli_chr01	11341189	GG	AA	1946728165
SNP_P4_6075_11341201	NC_021160.1	Ca_kabuli_chr01	11341201	AA	GG	1946728167
SNP_P4_6076_11341208	NC_021160.1	Ca_kabuli_chr01	11341208	TT	CC	1946728169
SNP_P4_6077_11341209	NC_021160.1	Ca_kabuli_chr01	11341209	GG	AA	1946728171
SNP_P4_6078_11341253	NC_021160.1	Ca_kabuli_chr01	11341253	GG	AA	1946728173
SNP_P4_6079_11341264	NC_021160.1	Ca_kabuli_chr01	11341264	TT	AA	1946728175
SNP_P4_6080_11341341	NC_021160.1	Ca_kabuli_chr01	11341341	GG	AA	1946728177
SNP_P4_6081_11346375	NC_021160.1	Ca_kabuli_chr01	11346375	GG	AA	1946728179
SNP_P4_6082_11347294	NC_021160.1	Ca_kabuli_chr01	11347294	CC	TT	1946728181
SNP_P4_6084_11383103	NC_021160.1	Ca_kabuli_chr01	11383103	AA	GG	1946728183
SNP_P4_6085_11383121	NC_021160.1	Ca_kabuli_chr01	11383121	AA	GG	1946728184
SNP_P4_6086_11396899	NC_021160.1	Ca_kabuli_chr01	11396899	AA	GG	1946728186
SNP_P4_6087_11396912	NC_021160.1	Ca_kabuli_chr01	11396912	TT	CC	1946728188
SNP_P4_6088_11396922	NC_021160.1	Ca_kabuli_chr01	11396922	AA	GG	1946728190
SNP_P4_6089_11415195	NC_021160.1	Ca_kabuli_chr01	11415195	AA	GG	1946728192
SNP_P4_6090_11415378	NC_021160.1	Ca_kabuli_chr01	11415378	TT	CC	1946728194
SNP_P4_6092_11431493	NC_021160.1	Ca_kabuli_chr01	11431493	AA	CC	1946728196
SNP_P4_6093_11434581	NC_021160.1	Ca_kabuli_chr01	11434581	TT	CC	1946728198
SNP_P4_6094_11447068	NC_021160.1	Ca_kabuli_chr01	11447068	CC	AA	1946728200
SNP_P4_6095_11466924	NC_021160.1	Ca_kabuli_chr01	11466924	TT	CC	1946728202
SNP_P4_6096_11477958	NC_021160.1	Ca_kabuli_chr01	11477958	GG	CC	1946728204
SNP_P4_6097_11496236	NC_021160.1	Ca_kabuli_chr01	11496236	TT	AA	1946728206
SNP_P4_6098_11516582	NC_021160.1	Ca_kabuli_chr01	11516582	TT	CC	1946728208
SNP_P4_6099_11517715	NC_021160.1	Ca_kabuli_chr01	11517715	GG	AA	1946728210
SNP_P4_6100_11517991	NC_021160.1	Ca_kabuli_chr01	11517991	TT	CC	1946728212
SNP_P4_6103_11562068	NC_021160.1	Ca_kabuli_chr01	11562068	AA	TT	1946728214
SNP_P4_6105_11570566	NC_021160.1	Ca_kabuli_chr01	11570566	GG	AA	1946728216
SNP_P4_6106_11575568	NC_021160.1	Ca_kabuli_chr01	11575568	TT	CC	1946728218
SNP_P4_6107_11641580	NC_021160.1	Ca_kabuli_chr01	11641580	CC	TT	1946728220

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_6109_11653981	NC_021160.1	Ca_kabuli_chr01	11653981	GG	AA	1946728224
SNP_P4_6110_11668944	NC_021160.1	Ca_kabuli_chr01	11668944	TT	CC	1946728226
SNP_P4_6111_11735094	NC_021160.1	Ca_kabuli_chr01	11735094	GG	AA	1946728228
SNP_P4_6112_11735134	NC_021160.1	Ca_kabuli_chr01	11735134	GG	AA	1946728230
SNP_P4_6115_11768346	NC_021160.1	Ca_kabuli_chr01	11768346	TT	AA	1946728232
SNP_P4_6117_11809827	NC_021160.1	Ca_kabuli_chr01	11809827	GG	AA	1946728234
SNP_P4_6118_11858083	NC_021160.1	Ca_kabuli_chr01	11858083	GG	TT	1946728236
SNP_P4_6119_11858108	NC_021160.1	Ca_kabuli_chr01	11858108	GG	AA	1946728238
SNP_P4_6120_11858150	NC_021160.1	Ca_kabuli_chr01	11858150	GG	AA	1946728240
SNP_P4_6121_11860863	NC_021160.1	Ca_kabuli_chr01	11860863	GG	TT	1946728241
SNP_P4_6122_11927853	NC_021160.1	Ca_kabuli_chr01	11927853	CC	AA	1946728243
SNP_P4_6123_11930518	NC_021160.1	Ca_kabuli_chr01	11930518	GG	AA	1946728245
SNP_P4_6124_11930532	NC_021160.1	Ca_kabuli_chr01	11930532	CC	AA	1946728247
SNP_P4_6125_11930535	NC_021160.1	Ca_kabuli_chr01	11930535	CC	TT	1946728249
SNP_P4_6127_11945747	NC_021160.1	Ca_kabuli_chr01	11945747	CC	TT	1946728251
SNP_P4_6129_11978867	NC_021160.1	Ca_kabuli_chr01	11978867	TT	CC	1946728253
SNP_P4_6130_12060026	NC_021160.1	Ca_kabuli_chr01	12060026	TT	AA	1946728255
SNP_P4_6131_12091787	NC_021160.1	Ca_kabuli_chr01	12091787	GG	AA	1946728257
SNP_P4_6132_12102738	NC_021160.1	Ca_kabuli_chr01	12102738	TT	CC	1946728259
SNP_P4_6133_12110121	NC_021160.1	Ca_kabuli_chr01	12110121	AA	TT	1946728261
SNP_P4_6137_12144154	NC_021160.1	Ca_kabuli_chr01	12144154	GG	AA	1946728263
SNP_P4_6138_12158643	NC_021160.1	Ca_kabuli_chr01	12158643	GG	AA	1946728265
SNP_P4_6139_12180660	NC_021160.1	Ca_kabuli_chr01	12180660	TT	CC	1946728267
SNP_P4_6140_12208185	NC_021160.1	Ca_kabuli_chr01	12208185	TT	GG	1946728268
SNP_P4_6141_12208200	NC_021160.1	Ca_kabuli_chr01	12208200	TT	GG	1946728270
SNP_P4_6142_12208201	NC_021160.1	Ca_kabuli_chr01	12208201	GG	AA	1946728272
SNP_P4_6143_12218230	NC_021160.1	Ca_kabuli_chr01	12218230	AA	GG	1946728274
SNP_P4_6145_12260585	NC_021160.1	Ca_kabuli_chr01	12260585	TT	GG	1946728276
SNP_P4_6146_12310101	NC_021160.1	Ca_kabuli_chr01	12310101	AA	GG	1946728278
SNP_P4_6148_12322202	NC_021160.1	Ca_kabuli_chr01	12322202	GG	AA	1946728280
SNP_P4_6149_12343824	NC_021160.1	Ca_kabuli_chr01	12343824	AA	CC	1946728282
SNP_P4_6150_12344692	NC_021160.1	Ca_kabuli_chr01	12344692	GG	CC	1946728284
SNP_P4_6152_12354577	NC_021160.1	Ca_kabuli_chr01	12354577	GG	AA	1946728286
SNP_P4_6153_12365816	NC_021160.1	Ca_kabuli_chr01	12365816	CC	TT	1946728288
SNP_P4_6154_12366213	NC_021160.1	Ca_kabuli_chr01	12366213	CC	TT	1946728290
SNP_P4_6155_12372332	NC_021160.1	Ca_kabuli_chr01	12372332	GG	CC	1946728292
SNP_P4_6156_12377270	NC_021160.1	Ca_kabuli_chr01	12377270	TT	CC	1946728294
SNP_P4_6157_12392243	NC_021160.1	Ca_kabuli_chr01	12392243	AA	CC	1946728296
SNP_P4_6158_12392292	NC_021160.1	Ca_kabuli_chr01	12392292	TT	CC	1946728298
SNP_P4_6159_12392364	NC_021160.1	Ca_kabuli_chr01	12392364	CC	TT	1946728300
SNP_P4_6160_12398542	NC_021160.1	Ca_kabuli_chr01	12398542	AA	GG	1946728302

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_6163_12422552	NC_021160.1	Ca_kabuli_chr01	12422552	AA	GG	1946728306
SNP_P4_6164_12429296	NC_021160.1	Ca_kabuli_chr01	12429296	CC	TT	1946728308
SNP_P4_6165_12438262	NC_021160.1	Ca_kabuli_chr01	12438262	CC	TT	1946728310
SNP_P4_6166_12444374	NC_021160.1	Ca_kabuli_chr01	12444374	CC	AA	1946728312
SNP_P4_6167_12464146	NC_021160.1	Ca_kabuli_chr01	12464146	GG	CC	1946728314
SNP_P4_6168_12465301	NC_021160.1	Ca_kabuli_chr01	12465301	CC	TT	1946728316
SNP_P4_6169_12473338	NC_021160.1	Ca_kabuli_chr01	12473338	TT	CC	1946728318
SNP_P4_6170_12531507	NC_021160.1	Ca_kabuli_chr01	12531507	AA	TT	1946728320
SNP_P4_6172_12551793	NC_021160.1	Ca_kabuli_chr01	12551793	AA	GG	1946728322
SNP_P4_6173_12572939	NC_021160.1	Ca_kabuli_chr01	12572939	TT	CC	1946728324
SNP_P4_6175_12585307	NC_021160.1	Ca_kabuli_chr01	12585307	TT	CC	1946728326
SNP_P4_6177_12616099	NC_021160.1	Ca_kabuli_chr01	12616099	AA	GG	1946728328
SNP_P4_6178_12616999	NC_021160.1	Ca_kabuli_chr01	12616999	GG	TT	1946728330
SNP_P4_6179_12620322	NC_021160.1	Ca_kabuli_chr01	12620322	AA	GG	1946728332
SNP_P4_6180_12624921	NC_021160.1	Ca_kabuli_chr01	12624921	AA	GG	1946728334
SNP_P4_6181_12625900	NC_021160.1	Ca_kabuli_chr01	12625900	GG	AA	1946728336
SNP_P4_6182_12629456	NC_021160.1	Ca_kabuli_chr01	12629456	TT	CC	1946728338
SNP_P4_6183_12630751	NC_021160.1	Ca_kabuli_chr01	12630751	TT	GG	1946728340
SNP_P4_6184_12630789	NC_021160.1	Ca_kabuli_chr01	12630789	TT	CC	1946728342
SNP_P4_6185_12631249	NC_021160.1	Ca_kabuli_chr01	12631249	GG	TT	1946728344
SNP_P4_6186_12644694	NC_021160.1	Ca_kabuli_chr01	12644694	AA	TT	1946728346
SNP_P4_6188_12644747	NC_021160.1	Ca_kabuli_chr01	12644747	AA	GG	1946728348
SNP_P4_6189_12644761	NC_021160.1	Ca_kabuli_chr01	12644761	CC	TT	1946728350
SNP_P4_6191_12645042	NC_021160.1	Ca_kabuli_chr01	12645042	CC	TT	1946728352
SNP_P4_6192_12645047	NC_021160.1	Ca_kabuli_chr01	12645047	AA	GG	1946728354
SNP_P4_6193_12654407	NC_021160.1	Ca_kabuli_chr01	12654407	AA	GG	1946728356
SNP_P4_6194_12654442	NC_021160.1	Ca_kabuli_chr01	12654442	AA	GG	1946728358
SNP_P4_6195_12665204	NC_021160.1	Ca_kabuli_chr01	12665204	TT	AA	1946728360
SNP_P4_6196_12665269	NC_021160.1	Ca_kabuli_chr01	12665269	TT	CC	1946728362
SNP_P4_6198_12685661	NC_021160.1	Ca_kabuli_chr01	12685661	GG	AA	1946728364
SNP_P4_6201_12699961	NC_021160.1	Ca_kabuli_chr01	12699961	AA	GG	1946728366
SNP_P4_6202_12716587	NC_021160.1	Ca_kabuli_chr01	12716587	TT	AA	1946728368
SNP_P4_6204_12747221	NC_021160.1	Ca_kabuli_chr01	12747221	TT	AA	1946728370
SNP_P4_6206_12767427	NC_021160.1	Ca_kabuli_chr01	12767427	GG	TT	1946728372
SNP_P4_6207_12767631	NC_021160.1	Ca_kabuli_chr01	12767631	TT	CC	1946728374
SNP_P4_6209_12773165	NC_021160.1	Ca_kabuli_chr01	12773165	GG	AA	1946728376
SNP_P4_6210_12773171	NC_021160.1	Ca_kabuli_chr01	12773171	TT	CC	1946728378
SNP_P4_6211_12773215	NC_021160.1	Ca_kabuli_chr01	12773215	GG	AA	1946728380
SNP_P4_6212_12773348	NC_021160.1	Ca_kabuli_chr01	12773348	CC	TT	1946728382
SNP_P4_6213_12773394	NC_021160.1	Ca_kabuli_chr01	12773394	AA	TT	1946728384
SNP_P4_6214_12773616	NC_021160.1	Ca_kabuli_chr01	12773616	TT	AA	1946728386

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_6216_12773735	NC_021160.1	Ca_kabuli_chr01	12773735	GG	TT	1946728390
SNP_P4_6218_12774350	NC_021160.1	Ca_kabuli_chr01	12774350	TT	AA	1946728392
SNP_P4_6219_12774355	NC_021160.1	Ca_kabuli_chr01	12774355	AA	TT	1946728395
SNP_P4_6220_12774649	NC_021160.1	Ca_kabuli_chr01	12774649	AA	CC	1946728397
SNP_P4_6221_12776043	NC_021160.1	Ca_kabuli_chr01	12776043	CC	TT	1946728399
SNP_P4_6223_12776248	NC_021160.1	Ca_kabuli_chr01	12776248	CC	TT	1946728401
SNP_P4_6224_12776486	NC_021160.1	Ca_kabuli_chr01	12776486	CC	TT	1946728403
SNP_P4_6225_12776516	NC_021160.1	Ca_kabuli_chr01	12776516	TT	GG	1946728405
SNP_P4_6226_12776733	NC_021160.1	Ca_kabuli_chr01	12776733	TT	CC	1946728407
SNP_P4_6227_12777414	NC_021160.1	Ca_kabuli_chr01	12777414	CC	TT	1946728410
SNP_P4_6228_12778096	NC_021160.1	Ca_kabuli_chr01	12778096	AA	TT	1946728413
SNP_P4_6229_12778163	NC_021160.1	Ca_kabuli_chr01	12778163	CC	TT	1946728416
SNP_P4_6230_12778174	NC_021160.1	Ca_kabuli_chr01	12778174	CC	AA	1946728419
SNP_P4_6231_12778193	NC_021160.1	Ca_kabuli_chr01	12778193	TT	CC	1946728422
SNP_P4_6232_12778200	NC_021160.1	Ca_kabuli_chr01	12778200	TT	CC	1946728425
SNP_P4_6233_12778204	NC_021160.1	Ca_kabuli_chr01	12778204	TT	AA	1946728427
SNP_P4_6234_12778356	NC_021160.1	Ca_kabuli_chr01	12778356	GG	AA	1946728430
SNP_P4_6235_12778379	NC_021160.1	Ca_kabuli_chr01	12778379	GG	CC	1946728432
SNP_P4_6236_12778424	NC_021160.1	Ca_kabuli_chr01	12778424	AA	GG	1946728433
SNP_P4_6237_12778443	NC_021160.1	Ca_kabuli_chr01	12778443	TT	AA	1946728435
SNP_P4_6238_12780855	NC_021160.1	Ca_kabuli_chr01	12780855	CC	TT	1946728437
SNP_P4_6239_12782185	NC_021160.1	Ca_kabuli_chr01	12782185	CC	GG	1946728439
SNP_P4_6240_12782225	NC_021160.1	Ca_kabuli_chr01	12782225	TT	AA	1946728441
SNP_P4_6241_12782247	NC_021160.1	Ca_kabuli_chr01	12782247	TT	CC	1946728443
SNP_P4_6242_12783183	NC_021160.1	Ca_kabuli_chr01	12783183	CC	AA	1946728445
SNP_P4_6244_12790871	NC_021160.1	Ca_kabuli_chr01	12790871	AA	GG	1946728447
SNP_P4_6245_12790874	NC_021160.1	Ca_kabuli_chr01	12790874	TT	CC	1946728449
SNP_P4_6247_12792034	NC_021160.1	Ca_kabuli_chr01	12792034	CC	TT	1946728451
SNP_P4_6248_12792039	NC_021160.1	Ca_kabuli_chr01	12792039	AA	TT	1946728453
SNP_P4_6250_12831140	NC_021160.1	Ca_kabuli_chr01	12831140	CC	TT	1946728455
SNP_P4_6251_12863143	NC_021160.1	Ca_kabuli_chr01	12863143	AA	CC	1946728457
SNP_P4_6252_12876380	NC_021160.1	Ca_kabuli_chr01	12876380	GG	AA	1946728459
SNP_P4_6254_12894057	NC_021160.1	Ca_kabuli_chr01	12894057	GG	AA	1946728461
SNP_P4_6255_12895063	NC_021160.1	Ca_kabuli_chr01	12895063	AA	GG	1946728463
SNP_P4_6256_12896138	NC_021160.1	Ca_kabuli_chr01	12896138	TT	CC	1946728465
SNP_P4_6257_12926600	NC_021160.1	Ca_kabuli_chr01	12926600	AA	GG	1946728467
SNP_P4_6258_12926604	NC_021160.1	Ca_kabuli_chr01	12926604	AA	GG	1946728469
SNP_P4_6259_12926610	NC_021160.1	Ca_kabuli_chr01	12926610	AA	GG	1946728471
SNP_P4_6260_12926639	NC_021160.1	Ca_kabuli_chr01	12926639	AA	GG	1946728473
SNP_P4_6261_12927337	NC_021160.1	Ca_kabuli_chr01	12927337	TT	GG	1946728475
SNP_P4_6262_12934095	NC_021160.1	Ca_kabuli_chr01	12934095	TT	AA	1946728477

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_6264_12947096	NC_021160.1	Ca_kabuli_chr01	12947096	AA	GG	1946728481
SNP_P4_6265_12947160	NC_021160.1	Ca_kabuli_chr01	12947160	GG	AA	1946728483
SNP_P4_6266_12947164	NC_021160.1	Ca_kabuli_chr01	12947164	TT	CC	1946728485
SNP_P4_6267_12947312	NC_021160.1	Ca_kabuli_chr01	12947312	AA	CC	1946728487
SNP_P4_6268_12947342	NC_021160.1	Ca_kabuli_chr01	12947342	GG	AA	1946728489
SNP_P4_6269_12947368	NC_021160.1	Ca_kabuli_chr01	12947368	CC	TT	1946728491
SNP_P4_6270_12947398	NC_021160.1	Ca_kabuli_chr01	12947398	GG	AA	1946728492
SNP_P4_6271_12947448	NC_021160.1	Ca_kabuli_chr01	12947448	CC	TT	1946728494
SNP_P4_6272_12947468	NC_021160.1	Ca_kabuli_chr01	12947468	CC	TT	1946728496
SNP_P4_6273_12947486	NC_021160.1	Ca_kabuli_chr01	12947486	AA	GG	1946728498
SNP_P4_6274_12947534	NC_021160.1	Ca_kabuli_chr01	12947534	CC	TT	1946728500
SNP_P4_6275_12947539	NC_021160.1	Ca_kabuli_chr01	12947539	GG	AA	1946728502
SNP_P4_6276_12947557	NC_021160.1	Ca_kabuli_chr01	12947557	AA	GG	1946728504
SNP_P4_6278_12947755	NC_021160.1	Ca_kabuli_chr01	12947755	TT	CC	1946728506
SNP_P4_6279_12948065	NC_021160.1	Ca_kabuli_chr01	12948065	AA	GG	1946728508
SNP_P4_6280_12950524	NC_021160.1	Ca_kabuli_chr01	12950524	AA	GG	1946728510
SNP_P4_6282_12950567	NC_021160.1	Ca_kabuli_chr01	12950567	TT	CC	1946728512
SNP_P4_6283_12950572	NC_021160.1	Ca_kabuli_chr01	12950572	GG	AA	1946728514
SNP_P4_6284_12950905	NC_021160.1	Ca_kabuli_chr01	12950905	CC	TT	1946728516
SNP_P4_6285_12950906	NC_021160.1	Ca_kabuli_chr01	12950906	TT	CC	1946728518
SNP_P4_6286_12950909	NC_021160.1	Ca_kabuli_chr01	12950909	CC	GG	1946728520
SNP_P4_6287_12950918	NC_021160.1	Ca_kabuli_chr01	12950918	TT	CC	1946728522
SNP_P4_6288_12950936	NC_021160.1	Ca_kabuli_chr01	12950936	AA	GG	1946728524
SNP_P4_6289_12955860	NC_021160.1	Ca_kabuli_chr01	12955860	AA	GG	1946728526
SNP_P4_6292_12956062	NC_021160.1	Ca_kabuli_chr01	12956062	TT	AA	1946728528
SNP_P4_6293_12956156	NC_021160.1	Ca_kabuli_chr01	12956156	CC	AA	1946728530
SNP_P4_6295_12956302	NC_021160.1	Ca_kabuli_chr01	12956302	CC	TT	1946728532
SNP_P4_6296_12956336	NC_021160.1	Ca_kabuli_chr01	12956336	GG	AA	1946728534
SNP_P4_6297_12956354	NC_021160.1	Ca_kabuli_chr01	12956354	AA	GG	1946728536
SNP_P4_6298_12956372	NC_021160.1	Ca_kabuli_chr01	12956372	AA	GG	1946728538
SNP_P4_6300_12956703	NC_021160.1	Ca_kabuli_chr01	12956703	AA	GG	1946728540
SNP_P4_6301_12956801	NC_021160.1	Ca_kabuli_chr01	12956801	TT	CC	1946728542
SNP_P4_6302_12956869	NC_021160.1	Ca_kabuli_chr01	12956869	AA	GG	1946728544
SNP_P4_6303_12958113	NC_021160.1	Ca_kabuli_chr01	12958113	TT	CC	1946728546
SNP_P4_6304_12973854	NC_021160.1	Ca_kabuli_chr01	12973854	AA	CC	1946728548
SNP_P4_6305_12979286	NC_021160.1	Ca_kabuli_chr01	12979286	CC	TT	1946728550
SNP_P4_6306_12979331	NC_021160.1	Ca_kabuli_chr01	12979331	CC	TT	1946728552
SNP_P4_6307_12979534	NC_021160.1	Ca_kabuli_chr01	12979534	TT	CC	1946728554
SNP_P4_6308_12984099	NC_021160.1	Ca_kabuli_chr01	12984099	CC	TT	1946728556
SNP_P4_6309_12984100	NC_021160.1	Ca_kabuli_chr01	12984100	GG	AA	1946728559
SNP_P4_6310_12984194	NC_021160.1	Ca_kabuli_chr01	12984194	GG	AA	1946728561

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_6312_12984258	NC_021160.1	Ca_kabuli_chr01	12984258	GG	AA	1946728565
SNP_P4_6314_12991478	NC_021160.1	Ca_kabuli_chr01	12991478	TT	AA	1946728567
SNP_P4_6315_13005740	NC_021160.1	Ca_kabuli_chr01	13005740	GG	AA	1946728569
SNP_P4_6316_13006291	NC_021160.1	Ca_kabuli_chr01	13006291	CC	TT	1946728571
SNP_P4_6317_13007347	NC_021160.1	Ca_kabuli_chr01	13007347	TT	AA	1946728573
SNP_P4_6318_13007352	NC_021160.1	Ca_kabuli_chr01	13007352	AA	GG	1946728575
SNP_P4_6319_13007480	NC_021160.1	Ca_kabuli_chr01	13007480	GG	AA	1946728577
SNP_P4_6321_13007590	NC_021160.1	Ca_kabuli_chr01	13007590	CC	AA	1946728579
SNP_P4_6322_13007861	NC_021160.1	Ca_kabuli_chr01	13007861	TT	GG	1946728581
SNP_P4_6323_13008096	NC_021160.1	Ca_kabuli_chr01	13008096	CC	TT	1946728583
SNP_P4_6324_13008103	NC_021160.1	Ca_kabuli_chr01	13008103	CC	TT	1946728585
SNP_P4_6325_13008184	NC_021160.1	Ca_kabuli_chr01	13008184	TT	CC	1946728587
SNP_P4_6326_13008220	NC_021160.1	Ca_kabuli_chr01	13008220	CC	TT	1946728589
SNP_P4_6327_13008592	NC_021160.1	Ca_kabuli_chr01	13008592	CC	AA	1946728591
SNP_P4_6328_13008921	NC_021160.1	Ca_kabuli_chr01	13008921	TT	CC	1946728593
SNP_P4_6329_13009200	NC_021160.1	Ca_kabuli_chr01	13009200	AA	CC	1946728594
SNP_P4_6330_13009592	NC_021160.1	Ca_kabuli_chr01	13009592	GG	AA	1946728596
SNP_P4_6331_13012157	NC_021160.1	Ca_kabuli_chr01	13012157	CC	TT	1946728598
SNP_P4_6333_13012574	NC_021160.1	Ca_kabuli_chr01	13012574	TT	CC	1946728600
SNP_P4_6334_13012935	NC_021160.1	Ca_kabuli_chr01	13012935	AA	TT	1946728602
SNP_P4_6335_13014333	NC_021160.1	Ca_kabuli_chr01	13014333	GG	AA	1946728604
SNP_P4_6336_13014360	NC_021160.1	Ca_kabuli_chr01	13014360	AA	GG	1946728606
SNP_P4_6337_13014373	NC_021160.1	Ca_kabuli_chr01	13014373	TT	CC	1946728608
SNP_P4_6338_13014374	NC_021160.1	Ca_kabuli_chr01	13014374	TT	GG	1946728610
SNP_P4_6339_13024000	NC_021160.1	Ca_kabuli_chr01	13024000	CC	TT	1946728612
SNP_P4_6340_13049053	NC_021160.1	Ca_kabuli_chr01	13049053	CC	TT	1946728614
SNP_P4_6341_13069193	NC_021160.1	Ca_kabuli_chr01	13069193	AA	GG	1946728616
SNP_P4_6342_13087254	NC_021160.1	Ca_kabuli_chr01	13087254	GG	CC	1946728618
SNP_P4_6343_13097917	NC_021160.1	Ca_kabuli_chr01	13097917	TT	AA	1946728620
SNP_P4_6344_13124920	NC_021160.1	Ca_kabuli_chr01	13124920	CC	TT	1946728622
SNP_P4_6345_13124956	NC_021160.1	Ca_kabuli_chr01	13124956	CC	TT	1946728624
SNP_P4_6346_13174737	NC_021160.1	Ca_kabuli_chr01	13174737	CC	TT	1946728626
SNP_P4_6347_13187766	NC_021160.1	Ca_kabuli_chr01	13187766	TT	AA	1946728628
SNP_P4_6348_13190277	NC_021160.1	Ca_kabuli_chr01	13190277	TT	CC	1946728630
SNP_P4_6349_13196233	NC_021160.1	Ca_kabuli_chr01	13196233	AA	TT	1946728632
SNP_P4_6350_13212187	NC_021160.1	Ca_kabuli_chr01	13212187	AA	TT	1946728634
SNP_P4_6352_13274667	NC_021160.1	Ca_kabuli_chr01	13274667	TT	CC	1946728636
SNP_P4_6353_13278139	NC_021160.1	Ca_kabuli_chr01	13278139	GG	AA	1946728638
SNP_P4_6354_13283885	NC_021160.1	Ca_kabuli_chr01	13283885	AA	TT	1946728640
SNP_P4_6356_13303775	NC_021160.1	Ca_kabuli_chr01	13303775	CC	TT	1946728642
SNP_P4_6357_13303779	NC_021160.1	Ca_kabuli_chr01	13303779	TT	AA	1946728644

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_6359_13315152	NC_021160.1	Ca_kabuli_chr01	13315152	TT	CC	1946728648
SNP_P4_6360_13315153	NC_021160.1	Ca_kabuli_chr01	13315153	AA	GG	1946728650
SNP_P4_6362_13342389	NC_021160.1	Ca_kabuli_chr01	13342389	TT	AA	1946728652
SNP_P4_6363_13342393	NC_021160.1	Ca_kabuli_chr01	13342393	AA	TT	1946728654
SNP_P4_6364_13387244	NC_021160.1	Ca_kabuli_chr01	13387244	AA	GG	1946728656
SNP_P4_6365_13387701	NC_021160.1	Ca_kabuli_chr01	13387701	AA	CC	1946728658
SNP_P4_6366_13387706	NC_021160.1	Ca_kabuli_chr01	13387706	AA	GG	1946728660
SNP_P4_6369_13534338	NC_021160.1	Ca_kabuli_chr01	13534338	AA	TT	1946728662
SNP_P4_6370_13548879	NC_021160.1	Ca_kabuli_chr01	13548879	GG	AA	1946728664
SNP_P4_6371_13548973	NC_021160.1	Ca_kabuli_chr01	13548973	AA	CC	1946728666
SNP_P4_6372_13570757	NC_021160.1	Ca_kabuli_chr01	13570757	TT	CC	1946728668
SNP_P4_6374_13598885	NC_021160.1	Ca_kabuli_chr01	13598885	AA	GG	1946728670
SNP_P4_6375_13661039	NC_021160.1	Ca_kabuli_chr01	13661039	TT	CC	1946728672
SNP_P4_6377_13671469	NC_021160.1	Ca_kabuli_chr01	13671469	AA	CC	1946728674
SNP_P4_6378_13671652	NC_021160.1	Ca_kabuli_chr01	13671652	CC	TT	1946728676
SNP_P4_6379_13671693	NC_021160.1	Ca_kabuli_chr01	13671693	AA	GG	1946728678
SNP_P4_6380_13671745	NC_021160.1	Ca_kabuli_chr01	13671745	AA	CC	1946728680
SNP_P4_6381_13671762	NC_021160.1	Ca_kabuli_chr01	13671762	CC	AA	1946728682
SNP_P4_6382_13671803	NC_021160.1	Ca_kabuli_chr01	13671803	AA	GG	1946728684
SNP_P4_6384_13675523	NC_021160.1	Ca_kabuli_chr01	13675523	AA	GG	1946728686
SNP_P4_6386_13676224	NC_021160.1	Ca_kabuli_chr01	13676224	CC	AA	1946728688
SNP_P4_6389_13676284	NC_021160.1	Ca_kabuli_chr01	13676284	CC	AA	1946728690
SNP_P4_6390_13676455	NC_021160.1	Ca_kabuli_chr01	13676455	TT	CC	1946728692
SNP_P4_6392_13676534	NC_021160.1	Ca_kabuli_chr01	13676534	CC	TT	1946728694
SNP_P4_6394_13677284	NC_021160.1	Ca_kabuli_chr01	13677284	TT	AA	1946728696
SNP_P4_6398_13678797	NC_021160.1	Ca_kabuli_chr01	13678797	GG	AA	1946728698
SNP_P4_6399_13679252	NC_021160.1	Ca_kabuli_chr01	13679252	CC	AA	1946728700
SNP_P4_6400_13679280	NC_021160.1	Ca_kabuli_chr01	13679280	AA	GG	1946728702
SNP_P4_6401_13679364	NC_021160.1	Ca_kabuli_chr01	13679364	CC	AA	1946728704
SNP_P4_6403_13679837	NC_021160.1	Ca_kabuli_chr01	13679837	CC	TT	1946728706
SNP_P4_6404_13680539	NC_021160.1	Ca_kabuli_chr01	13680539	CC	GG	1946728708
SNP_P4_6406_13682311	NC_021160.1	Ca_kabuli_chr01	13682311	CC	TT	1946728710
SNP_P4_6407_13682344	NC_021160.1	Ca_kabuli_chr01	13682344	AA	CC	1946728712
SNP_P4_6408_13682666	NC_021160.1	Ca_kabuli_chr01	13682666	TT	AA	1946728714
SNP_P4_6409_13683550	NC_021160.1	Ca_kabuli_chr01	13683550	AA	TT	1946728716
SNP_P4_6410_13683607	NC_021160.1	Ca_kabuli_chr01	13683607	CC	TT	1946728718
SNP_P4_6411_13683611	NC_021160.1	Ca_kabuli_chr01	13683611	GG	AA	1946728720
SNP_P4_6412_13684399	NC_021160.1	Ca_kabuli_chr01	13684399	TT	AA	1946728722
SNP_P4_6413_13684641	NC_021160.1	Ca_kabuli_chr01	13684641	GG	AA	1946728724
SNP_P4_6414_13685187	NC_021160.1	Ca_kabuli_chr01	13685187	CC	AA	1946728726
SNP_P4_6415_13685298	NC_021160.1	Ca_kabuli_chr01	13685298	GG	TT	1946728729

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_6418_13685782	NC_021160.1	Ca_kabuli_chr01	13685782	CC	GG	1946728733
SNP_P4_6419_13685822	NC_021160.1	Ca_kabuli_chr01	13685822	CC	TT	1946728735
SNP_P4_6420_13686297	NC_021160.1	Ca_kabuli_chr01	13686297	AA	TT	1946728737
SNP_P4_6422_13686712	NC_021160.1	Ca_kabuli_chr01	13686712	TT	GG	1946728739
SNP_P4_6424_13686770	NC_021160.1	Ca_kabuli_chr01	13686770	AA	GG	1946728741
SNP_P4_6425_13688181	NC_021160.1	Ca_kabuli_chr01	13688181	AA	TT	1946728743
SNP_P4_6426_13688196	NC_021160.1	Ca_kabuli_chr01	13688196	GG	AA	1946728745
SNP_P4_6427_13688346	NC_021160.1	Ca_kabuli_chr01	13688346	CC	TT	1946728747
SNP_P4_6428_13688348	NC_021160.1	Ca_kabuli_chr01	13688348	GG	AA	1946728749
SNP_P4_6429_13688589	NC_021160.1	Ca_kabuli_chr01	13688589	GG	AA	1946728751
SNP_P4_6430_13689461	NC_021160.1	Ca_kabuli_chr01	13689461	TT	CC	1946728753
SNP_P4_6431_13689847	NC_021160.1	Ca_kabuli_chr01	13689847	AA	GG	1946728755
SNP_P4_6432_13690050	NC_021160.1	Ca_kabuli_chr01	13690050	TT	CC	1946728757
SNP_P4_6433_13690094	NC_021160.1	Ca_kabuli_chr01	13690094	GG	AA	1946728759
SNP_P4_6434_13690203	NC_021160.1	Ca_kabuli_chr01	13690203	AA	TT	1946728761
SNP_P4_6435_13690207	NC_021160.1	Ca_kabuli_chr01	13690207	AA	TT	1946728763
SNP_P4_6437_13691139	NC_021160.1	Ca_kabuli_chr01	13691139	GG	TT	1946728765
SNP_P4_6438_13691392	NC_021160.1	Ca_kabuli_chr01	13691392	AA	GG	1946728767
SNP_P4_6439_13693497	NC_021160.1	Ca_kabuli_chr01	13693497	CC	GG	1946728769
SNP_P4_6440_13693542	NC_021160.1	Ca_kabuli_chr01	13693542	AA	TT	1946728771
SNP_P4_6441_13693610	NC_021160.1	Ca_kabuli_chr01	13693610	CC	TT	1946728773
SNP_P4_6442_13693633	NC_021160.1	Ca_kabuli_chr01	13693633	TT	AA	1946728775
SNP_P4_6443_13693781	NC_021160.1	Ca_kabuli_chr01	13693781	TT	AA	1946728777
SNP_P4_6444_13693827	NC_021160.1	Ca_kabuli_chr01	13693827	CC	AA	1946728779
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SNP_P4_6446_13694567	NC_021160.1	Ca_kabuli_chr01	13694567	GG	AA	1946728783
SNP_P4_6447_13694603	NC_021160.1	Ca_kabuli_chr01	13694603	GG	AA	1946728785
SNP_P4_6448_13694630	NC_021160.1	Ca_kabuli_chr01	13694630	AA	GG	1946728787
SNP_P4_6449_13695708	NC_021160.1	Ca_kabuli_chr01	13695708	TT	AA	1946728789
SNP_P4_6450_13695729	NC_021160.1	Ca_kabuli_chr01	13695729	AA	TT	1946728791
SNP_P4_6451_13695847	NC_021160.1	Ca_kabuli_chr01	13695847	AA	GG	1946728793
SNP_P4_6452_13695900	NC_021160.1	Ca_kabuli_chr01	13695900	GG	AA	1946728795
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SNP_P4_6456_13699547	NC_021160.1	Ca_kabuli_chr01	13699547	AA	GG	1946728800
SNP_P4_6457_13699742	NC_021160.1	Ca_kabuli_chr01	13699742	AA	GG	1946728802
SNP_P4_6458_13700704	NC_021160.1	Ca_kabuli_chr01	13700704	CC	TT	1946728804
SNP_P4_6459_13700713	NC_021160.1	Ca_kabuli_chr01	13700713	TT	AA	1946728806
SNP_P4_6460_13701790	NC_021160.1	Ca_kabuli_chr01	13701790	GG	AA	1946728808
SNP_P4_6462_13701877	NC_021160.1	Ca_kabuli_chr01	13701877	TT	GG	1946728810
SNP_P4_6463_13702627	NC_021160.1	Ca_kabuli_chr01	13702627	CC	AA	1946728811
SNP_P4_6464_13703097	NC_021160.1	Ca_kabuli_chr01	13703097	CC	GG	1946728813

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_6467_13704327	NC_021160.1	Ca_kabuli_chr01	13704327	CC	TT	1946728819
SNP_P4_6468_13704371	NC_021160.1	Ca_kabuli_chr01	13704371	CC	AA	1946728821
SNP_P4_6469_13704631	NC_021160.1	Ca_kabuli_chr01	13704631	CC	TT	1946728823
SNP_P4_6471_13704744	NC_021160.1	Ca_kabuli_chr01	13704744	GG	TT	1946728825
SNP_P4_6472_13710442	NC_021160.1	Ca_kabuli_chr01	13710442	CC	TT	1946728827
SNP_P4_6475_13731556	NC_021160.1	Ca_kabuli_chr01	13731556	GG	AA	1946728829
SNP_P4_6476_13745197	NC_021160.1	Ca_kabuli_chr01	13745197	CC	TT	1946728831
SNP_P4_6477_13745718	NC_021160.1	Ca_kabuli_chr01	13745718	TT	CC	1946728833
SNP_P4_6478_13748101	NC_021160.1	Ca_kabuli_chr01	13748101	AA	TT	1946728835
SNP_P4_6480_13748781	NC_021160.1	Ca_kabuli_chr01	13748781	AA	TT	1946728837
SNP_P4_6483_13769176	NC_021160.1	Ca_kabuli_chr01	13769176	TT	AA	1946728839
SNP_P4_6485_13800669	NC_021160.1	Ca_kabuli_chr01	13800669	GG	TT	1946728841
SNP_P4_6487_13885927	NC_021160.1	Ca_kabuli_chr01	13885927	CC	GG	1946728843
SNP_P4_6488_13902821	NC_021160.1	Ca_kabuli_chr01	13902821	GG	AA	1946728845
SNP_P4_6489_13903291	NC_021160.1	Ca_kabuli_chr01	13903291	AA	TT	1946728847
SNP_P4_6490_13903314	NC_021160.1	Ca_kabuli_chr01	13903314	AA	GG	1946728849
SNP_P4_6491_13903319	NC_021160.1	Ca_kabuli_chr01	13903319	CC	AA	1946728850
SNP_P4_6492_13903378	NC_021160.1	Ca_kabuli_chr01	13903378	TT	CC	1946728852
SNP_P4_6493_13921243	NC_021160.1	Ca_kabuli_chr01	13921243	GG	AA	1946728854
SNP_P4_6494_13921517	NC_021160.1	Ca_kabuli_chr01	13921517	GG	AA	1946728856
SNP_P4_6495_13921530	NC_021160.1	Ca_kabuli_chr01	13921530	AA	TT	1946728858
SNP_P4_6497_13939772	NC_021160.1	Ca_kabuli_chr01	13939772	TT	CC	1946728860
SNP_P4_6498_13960731	NC_021160.1	Ca_kabuli_chr01	13960731	GG	AA	1946728862
SNP_P4_6499_13960994	NC_021160.1	Ca_kabuli_chr01	13960994	GG	TT	1946728864
SNP_P4_6500_13961023	NC_021160.1	Ca_kabuli_chr01	13961023	GG	AA	1946728867
SNP_P4_6501_13961054	NC_021160.1	Ca_kabuli_chr01	13961054	GG	AA	1946728869
SNP_P4_6502_13961089	NC_021160.1	Ca_kabuli_chr01	13961089	AA	GG	1946728871
SNP_P4_6503_13966040	NC_021160.1	Ca_kabuli_chr01	13966040	AA	GG	1946728873
SNP_P4_6504_14010880	NC_021160.1	Ca_kabuli_chr01	14010880	TT	CC	1946728875
SNP_P4_6505_14011319	NC_021160.1	Ca_kabuli_chr01	14011319	AA	CC	1946728877
SNP_P4_6506_14013687	NC_021160.1	Ca_kabuli_chr01	14013687	CC	AA	1946728879
SNP_P4_6507_14024367	NC_021160.1	Ca_kabuli_chr01	14024367	TT	CC	1946728881
SNP_P4_6508_14037732	NC_021160.1	Ca_kabuli_chr01	14037732	CC	TT	1946728883
SNP_P4_6509_14059017	NC_021160.1	Ca_kabuli_chr01	14059017	CC	TT	1946728885
SNP_P4_6510_14059911	NC_021160.1	Ca_kabuli_chr01	14059911	AA	GG	1946728887
SNP_P4_6511_14062041	NC_021160.1	Ca_kabuli_chr01	14062041	TT	CC	1946728889
SNP_P4_6512_14062744	NC_021160.1	Ca_kabuli_chr01	14062744	GG	AA	1946728891
SNP_P4_6513_14066918	NC_021160.1	Ca_kabuli_chr01	14066918	CC	GG	1946728893
SNP_P4_6514_14079439	NC_021160.1	Ca_kabuli_chr01	14079439	GG	AA	1946728895
SNP_P4_6515_14106609	NC_021160.1	Ca_kabuli_chr01	14106609	AA	TT	1946728897

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_6516_14126072	NC_021160.1	Ca_kabuli_chr01	14126072	TT	CC	1946728899
SNP_P4_6517_14131061	NC_021160.1	Ca_kabuli_chr01	14131061	GG	AA	1946728901
SNP_P4_6518_14151607	NC_021160.1	Ca_kabuli_chr01	14151607	CC	GG	1946728903
SNP_P4_6519_14175125	NC_021160.1	Ca_kabuli_chr01	14175125	GG	AA	1946728905
SNP_P4_6520_14207015	NC_021160.1	Ca_kabuli_chr01	14207015	AA	GG	1946728907
SNP_P4_6521_14207229	NC_021160.1	Ca_kabuli_chr01	14207229	AA	TT	1946728909
SNP_P4_6522_14207388	NC_021160.1	Ca_kabuli_chr01	14207388	AA	GG	1946728911
SNP_P4_6523_14207527	NC_021160.1	Ca_kabuli_chr01	14207527	GG	AA	1946728913
SNP_P4_6524_14207546	NC_021160.1	Ca_kabuli_chr01	14207546	CC	AA	1946728915
SNP_P4_6525_14209683	NC_021160.1	Ca_kabuli_chr01	14209683	TT	AA	1946728917
SNP_P4_6526_14209737	NC_021160.1	Ca_kabuli_chr01	14209737	TT	AA	1946728919
SNP_P4_6527_14209762	NC_021160.1	Ca_kabuli_chr01	14209762	TT	GG	1946728921
SNP_P4_6528_14209764	NC_021160.1	Ca_kabuli_chr01	14209764	GG	AA	1946728923
SNP_P4_6529_14209774	NC_021160.1	Ca_kabuli_chr01	14209774	GG	AA	1946728925
SNP_P4_6530_14209786	NC_021160.1	Ca_kabuli_chr01	14209786	AA	GG	1946728927
SNP_P4_6531_14209806	NC_021160.1	Ca_kabuli_chr01	14209806	AA	GG	1946728929
SNP_P4_6532_14209815	NC_021160.1	Ca_kabuli_chr01	14209815	AA	GG	1946728931
SNP_P4_6533_14209821	NC_021160.1	Ca_kabuli_chr01	14209821	CC	GG	1946728933
SNP_P4_6534_14209825	NC_021160.1	Ca_kabuli_chr01	14209825	TT	GG	1946728935
SNP_P4_6535_14209840	NC_021160.1	Ca_kabuli_chr01	14209840	AA	GG	1946728937
SNP_P4_6536_14209862	NC_021160.1	Ca_kabuli_chr01	14209862	TT	AA	1946728939
SNP_P4_6537_14209877	NC_021160.1	Ca_kabuli_chr01	14209877	AA	TT	1946728941
SNP_P4_6538_14209890	NC_021160.1	Ca_kabuli_chr01	14209890	CC	AA	1946728943
SNP_P4_6539_14209903	NC_021160.1	Ca_kabuli_chr01	14209903	AA	GG	1946728945
SNP_P4_6540_14209905	NC_021160.1	Ca_kabuli_chr01	14209905	GG	TT	1946728947
SNP_P4_6541_14209940	NC_021160.1	Ca_kabuli_chr01	14209940	AA	TT	1946728949
SNP_P4_6542_14209943	NC_021160.1	Ca_kabuli_chr01	14209943	TT	AA	1946728951
SNP_P4_6543_14210042	NC_021160.1	Ca_kabuli_chr01	14210042	AA	CC	1946728953
SNP_P4_6544_14210121	NC_021160.1	Ca_kabuli_chr01	14210121	AA	TT	1946728955
SNP_P4_6545_14210128	NC_021160.1	Ca_kabuli_chr01	14210128	CC	TT	1946728957
SNP_P4_6546_14210134	NC_021160.1	Ca_kabuli_chr01	14210134	AA	CC	1946728959
SNP_P4_6547_14210192	NC_021160.1	Ca_kabuli_chr01	14210192	AA	CC	1946728961
SNP_P4_6548_14210194	NC_021160.1	Ca_kabuli_chr01	14210194	CC	TT	1946728963
SNP_P4_6549_14210195	NC_021160.1	Ca_kabuli_chr01	14210195	AA	GG	1946728965
SNP_P4_6550_14210197	NC_021160.1	Ca_kabuli_chr01	14210197	AA	GG	1946728967
SNP_P4_6551_14210206	NC_021160.1	Ca_kabuli_chr01	14210206	GG	AA	1946728969
SNP_P4_6552_14210210	NC_021160.1	Ca_kabuli_chr01	14210210	CC	GG	1946728971
SNP_P4_6553_14210221	NC_021160.1	Ca_kabuli_chr01	14210221	CC	TT	1946728974
SNP_P4_6554_14210224	NC_021160.1	Ca_kabuli_chr01	14210224	AA	TT	1946728976
SNP_P4_6555_14210227	NC_021160.1	Ca_kabuli_chr01	14210227	TT	CC	1946728979
SNP_P4_6556_14210232	NC_021160.1	Ca_kabuli_chr01	14210232	TT	CC	1946728981
SNP_P4_6557_14210275	NC_021160.1	Ca_kabuli_chr01	14210275	CC	TT	1946728984

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_6559_14210327	NC_021160.1	Ca_kabuli_chr01	14210327	GG	AA	1946728989
SNP_P4_6560_14210389	NC_021160.1	Ca_kabuli_chr01	14210389	CC	GG	1946728991
SNP_P4_6561_14221104	NC_021160.1	Ca_kabuli_chr01	14221104	TT	CC	1946728993
SNP_P4_6562_14244775	NC_021160.1	Ca_kabuli_chr01	14244775	GG	TT	1946728995
SNP_P4_6563_14244789	NC_021160.1	Ca_kabuli_chr01	14244789	AA	TT	1946728997
SNP_P4_6564_14244799	NC_021160.1	Ca_kabuli_chr01	14244799	AA	TT	1946728999
SNP_P4_6565_14244816	NC_021160.1	Ca_kabuli_chr01	14244816	CC	TT	1946729001
SNP_P4_6567_14339192	NC_021160.1	Ca_kabuli_chr01	14339192	TT	GG	1946729003
SNP_P4_6568_14339224	NC_021160.1	Ca_kabuli_chr01	14339224	AA	TT	1946729005
SNP_P4_6569_14339229	NC_021160.1	Ca_kabuli_chr01	14339229	AA	GG	1946729006
SNP_P4_6571_14382149	NC_021160.1	Ca_kabuli_chr01	14382149	TT	CC	1946729008
SNP_P4_6572_14382367	NC_021160.1	Ca_kabuli_chr01	14382367	TT	CC	1946729010
SNP_P4_6573_14382370	NC_021160.1	Ca_kabuli_chr01	14382370	TT	CC	1946729012
SNP_P4_6574_14382402	NC_021160.1	Ca_kabuli_chr01	14382402	CC	TT	1946729014
SNP_P4_6575_14382424	NC_021160.1	Ca_kabuli_chr01	14382424	AA	GG	1946729016
SNP_P4_6576_14382512	NC_021160.1	Ca_kabuli_chr01	14382512	TT	CC	1946729018
SNP_P4_6577_14382549	NC_021160.1	Ca_kabuli_chr01	14382549	AA	CC	1946729020
SNP_P4_6578_14382550	NC_021160.1	Ca_kabuli_chr01	14382550	TT	CC	1946729022
SNP_P4_6579_14382563	NC_021160.1	Ca_kabuli_chr01	14382563	AA	TT	1946729024
SNP_P4_6580_14382564	NC_021160.1	Ca_kabuli_chr01	14382564	TT	GG	1946729026
SNP_P4_6581_14382565	NC_021160.1	Ca_kabuli_chr01	14382565	CC	AA	1946729028
SNP_P4_6582_14382606	NC_021160.1	Ca_kabuli_chr01	14382606	GG	AA	1946729030
SNP_P4_6583_14382747	NC_021160.1	Ca_kabuli_chr01	14382747	CC	TT	1946729032
SNP_P4_6584_14382751	NC_021160.1	Ca_kabuli_chr01	14382751	CC	TT	1946729034
SNP_P4_6585_14382753	NC_021160.1	Ca_kabuli_chr01	14382753	GG	CC	1946729036
SNP_P4_6586_14382806	NC_021160.1	Ca_kabuli_chr01	14382806	TT	GG	1946729038
SNP_P4_6587_14382813	NC_021160.1	Ca_kabuli_chr01	14382813	CC	GG	1946729040
SNP_P4_6588_14382827	NC_021160.1	Ca_kabuli_chr01	14382827	CC	TT	1946729042
SNP_P4_6592_14483788	NC_021160.1	Ca_kabuli_chr01	14483788	TT	GG	1946729044
SNP_P4_6593_14495605	NC_021160.1	Ca_kabuli_chr01	14495605	GG	CC	1946729046
SNP_P4_6595_14542132	NC_021160.1	Ca_kabuli_chr01	14542132	CC	TT	1946729048
SNP_P4_6596_14542153	NC_021160.1	Ca_kabuli_chr01	14542153	GG	TT	1946729050
SNP_P4_6600_14670788	NC_021160.1	Ca_kabuli_chr01	14670788	AA	CC	1946729052
SNP_P4_6601_14671105	NC_021160.1	Ca_kabuli_chr01	14671105	AA	GG	1946729054
SNP_P4_6602_14686158	NC_021160.1	Ca_kabuli_chr01	14686158	AA	TT	1946729056
SNP_P4_6603_14693359	NC_021160.1	Ca_kabuli_chr01	14693359	AA	GG	1946729058
SNP_P4_6604_14702639	NC_021160.1	Ca_kabuli_chr01	14702639	GG	AA	1946729060
SNP_P4_6605_14765822	NC_021160.1	Ca_kabuli_chr01	14765822	TT	AA	1946729062
SNP_P4_6606_14766146	NC_021160.1	Ca_kabuli_chr01	14766146	GG	AA	1946729064
SNP_P4_6607_14767582	NC_021160.1	Ca_kabuli_chr01	14767582	TT	CC	1946729066
SNP_P4_6608_14769542	NC_021160.1	Ca_kabuli_chr01	14769542	CC	TT	1946729067

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_6612_14842691	NC_021160.1	Ca_kabuli_chr01	14842691	AA	GG	1946729071
SNP_P4_6613_14842803	NC_021160.1	Ca_kabuli_chr01	14842803	AA	CC	1946729073
SNP_P4_6614_14843014	NC_021160.1	Ca_kabuli_chr01	14843014	TT	AA	1946729075
SNP_P4_6615_14843027	NC_021160.1	Ca_kabuli_chr01	14843027	TT	AA	1946729077
SNP_P4_6616_14843212	NC_021160.1	Ca_kabuli_chr01	14843212	GG	AA	1946729079
SNP_P4_6617_14843227	NC_021160.1	Ca_kabuli_chr01	14843227	TT	AA	1946729081
SNP_P4_6618_14844046	NC_021160.1	Ca_kabuli_chr01	14844046	CC	TT	1946729083
SNP_P4_6619_14848575	NC_021160.1	Ca_kabuli_chr01	14848575	TT	CC	1946729085
SNP_P4_6620_14863453	NC_021160.1	Ca_kabuli_chr01	14863453	AA	GG	1946729087
SNP_P4_6621_14866741	NC_021160.1	Ca_kabuli_chr01	14866741	AA	GG	1946729089
SNP_P4_6622_14891102	NC_021160.1	Ca_kabuli_chr01	14891102	TT	AA	1946729091
SNP_P4_6623_14891115	NC_021160.1	Ca_kabuli_chr01	14891115	AA	CC	1946729092
SNP_P4_6625_14891375	NC_021160.1	Ca_kabuli_chr01	14891375	TT	GG	1946729094
SNP_P4_6627_14908788	NC_021160.1	Ca_kabuli_chr01	14908788	TT	CC	1946729096
SNP_P4_6628_14970549	NC_021160.1	Ca_kabuli_chr01	14970549	AA	TT	1946729098
SNP_P4_6629_14974631	NC_021160.1	Ca_kabuli_chr01	14974631	AA	CC	1946729100
SNP_P4_6630_14976759	NC_021160.1	Ca_kabuli_chr01	14976759	AA	TT	1946729102
SNP_P4_6631_14991023	NC_021160.1	Ca_kabuli_chr01	14991023	AA	GG	1946729104
SNP_P4_6632_14995637	NC_021160.1	Ca_kabuli_chr01	14995637	CC	TT	1946729106
SNP_P4_6633_14995683	NC_021160.1	Ca_kabuli_chr01	14995683	TT	GG	1946729108
SNP_P4_6636_14996172	NC_021160.1	Ca_kabuli_chr01	14996172	GG	TT	1946729110
SNP_P4_6638_14998429	NC_021160.1	Ca_kabuli_chr01	14998429	TT	CC	1946729112
SNP_P4_6639_14998744	NC_021160.1	Ca_kabuli_chr01	14998744	GG	AA	1946729114
SNP_P4_6640_15030170	NC_021160.1	Ca_kabuli_chr01	15030170	TT	AA	1946729116
SNP_P4_6641_15031800	NC_021160.1	Ca_kabuli_chr01	15031800	GG	AA	1946729117
SNP_P4_6642_15037287	NC_021160.1	Ca_kabuli_chr01	15037287	CC	TT	1946729119
SNP_P4_6644_15043194	NC_021160.1	Ca_kabuli_chr01	15043194	GG	AA	1946729121
SNP_P4_6645_15060895	NC_021160.1	Ca_kabuli_chr01	15060895	CC	TT	1946729123
SNP_P4_6646_15065815	NC_021160.1	Ca_kabuli_chr01	15065815	CC	TT	1946729125
SNP_P4_6647_15065859	NC_021160.1	Ca_kabuli_chr01	15065859	TT	AA	1946729127
SNP_P4_6648_15065889	NC_021160.1	Ca_kabuli_chr01	15065889	CC	TT	1946729129
SNP_P4_6649_15066012	NC_021160.1	Ca_kabuli_chr01	15066012	AA	CC	1946729131
SNP_P4_6650_15134847	NC_021160.1	Ca_kabuli_chr01	15134847	CC	AA	1946729133
SNP_P4_6652_15142156	NC_021160.1	Ca_kabuli_chr01	15142156	TT	CC	1946729135
SNP_P4_6656_15199346	NC_021160.1	Ca_kabuli_chr01	15199346	TT	AA	1946729137
SNP_P4_6657_15226973	NC_021160.1	Ca_kabuli_chr01	15226973	CC	TT	1946729139
SNP_P4_6658_15238370	NC_021160.1	Ca_kabuli_chr01	15238370	AA	TT	1946729141
SNP_P4_6659_15245564	NC_021160.1	Ca_kabuli_chr01	15245564	TT	CC	1946729143
SNP_P4_6660_15245605	NC_021160.1	Ca_kabuli_chr01	15245605	CC	AA	1946729145
SNP_P4_6661_15245633	NC_021160.1	Ca_kabuli_chr01	15245633	AA	GG	1946729147
SNP_P4_6662_15245649	NC_021160.1	Ca_kabuli_chr01	15245649	GG	TT	1946729149

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_6663_15245656	NC_021160.1	Ca_kabuli_chr01	15245656	TT	GG	1946729151
SNP_P4_6664_15245689	NC_021160.1	Ca_kabuli_chr01	15245689	TT	GG	1946729152
SNP_P4_6666_15247299	NC_021160.1	Ca_kabuli_chr01	15247299	TT	CC	1946729154
SNP_P4_6667_15247304	NC_021160.1	Ca_kabuli_chr01	15247304	AA	GG	1946729156
SNP_P4_6668_15247352	NC_021160.1	Ca_kabuli_chr01	15247352	AA	CC	1946729158
SNP_P4_6669_15247364	NC_021160.1	Ca_kabuli_chr01	15247364	GG	AA	1946729160
SNP_P4_6670_15247382	NC_021160.1	Ca_kabuli_chr01	15247382	AA	GG	1946729162
SNP_P4_6671_15247385	NC_021160.1	Ca_kabuli_chr01	15247385	GG	AA	1946729164
SNP_P4_6672_15247407	NC_021160.1	Ca_kabuli_chr01	15247407	AA	GG	1946729166
SNP_P4_6673_15247420	NC_021160.1	Ca_kabuli_chr01	15247420	AA	CC	1946729168
SNP_P4_6674_15247433	NC_021160.1	Ca_kabuli_chr01	15247433	AA	GG	1946729170
SNP_P4_6675_15247587	NC_021160.1	Ca_kabuli_chr01	15247587	CC	AA	1946729172
SNP_P4_6676_15247600	NC_021160.1	Ca_kabuli_chr01	15247600	TT	CC	1946729174
SNP_P4_6677_15247606	NC_021160.1	Ca_kabuli_chr01	15247606	CC	TT	1946729177
SNP_P4_6678_15247615	NC_021160.1	Ca_kabuli_chr01	15247615	TT	CC	1946729179
SNP_P4_6679_15247732	NC_021160.1	Ca_kabuli_chr01	15247732	AA	TT	1946729181
SNP_P4_6680_15247807	NC_021160.1	Ca_kabuli_chr01	15247807	TT	CC	1946729183
SNP_P4_6681_15247820	NC_021160.1	Ca_kabuli_chr01	15247820	GG	CC	1946729185
SNP_P4_6682_15247822	NC_021160.1	Ca_kabuli_chr01	15247822	TT	CC	1946729187
SNP_P4_6683_15247832	NC_021160.1	Ca_kabuli_chr01	15247832	AA	CC	1946729189
SNP_P4_6684_15251856	NC_021160.1	Ca_kabuli_chr01	15251856	TT	CC	1946729190
SNP_P4_6685_15311438	NC_021160.1	Ca_kabuli_chr01	15311438	TT	AA	1946729192
SNP_P4_6686_15311447	NC_021160.1	Ca_kabuli_chr01	15311447	AA	GG	1946729194
SNP_P4_6687_15336808	NC_021160.1	Ca_kabuli_chr01	15336808	AA	CC	1946729196
SNP_P4_6688_15380192	NC_021160.1	Ca_kabuli_chr01	15380192	TT	CC	1946729198
SNP_P4_6689_15391859	NC_021160.1	Ca_kabuli_chr01	15391859	CC	TT	1946729200
SNP_P4_6690_15393274	NC_021160.1	Ca_kabuli_chr01	15393274	CC	TT	1946729202
SNP_P4_6691_15396678	NC_021160.1	Ca_kabuli_chr01	15396678	AA	GG	1946729204
SNP_P4_6692_15401540	NC_021160.1	Ca_kabuli_chr01	15401540	GG	AA	1946729206
SNP_P4_6693_15423066	NC_021160.1	Ca_kabuli_chr01	15423066	CC	TT	1946729208
SNP_P4_6694_15450240	NC_021160.1	Ca_kabuli_chr01	15450240	TT	GG	1946729210
SNP_P4_6695_15466176	NC_021160.1	Ca_kabuli_chr01	15466176	TT	CC	1946729212
SNP_P4_6696_15466179	NC_021160.1	Ca_kabuli_chr01	15466179	TT	CC	1946729214
SNP_P4_6697_15468523	NC_021160.1	Ca_kabuli_chr01	15468523	CC	TT	1946729216
SNP_P4_6698_15476242	NC_021160.1	Ca_kabuli_chr01	15476242	GG	CC	1946729218
SNP_P4_6699_15500646	NC_021160.1	Ca_kabuli_chr01	15500646	GG	AA	1946729220
SNP_P4_6700_15508165	NC_021160.1	Ca_kabuli_chr01	15508165	GG	AA	1946729222
SNP_P4_6701_15508441	NC_021160.1	Ca_kabuli_chr01	15508441	CC	TT	1946729225
SNP_P4_6702_15508482	NC_021160.1	Ca_kabuli_chr01	15508482	GG	TT	1946729227
SNP_P4_6703_15508536	NC_021160.1	Ca_kabuli_chr01	15508536	TT	CC	1946729229
SNP_P4_6704_15508786	NC_021160.1	Ca_kabuli_chr01	15508786	CC	GG	1946729231
SNP_P4_6705_15526470	NC_021160.1	Ca_kabuli_chr01	15526470	CC	AA	1946729233

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_6707_15577955	NC_021160.1	Ca_kabuli_chr01	15577955	AA	GG	1946729235
SNP_P4_6709_15579565	NC_021160.1	Ca_kabuli_chr01	15579565	TT	GG	1946729237
SNP_P4_6710_15579781	NC_021160.1	Ca_kabuli_chr01	15579781	CC	GG	1946729239
SNP_P4_6711_15580174	NC_021160.1	Ca_kabuli_chr01	15580174	TT	AA	1946729241
SNP_P4_6712_15589269	NC_021160.1	Ca_kabuli_chr01	15589269	AA	GG	1946729243
SNP_P4_6713_15615459	NC_021160.1	Ca_kabuli_chr01	15615459	GG	AA	1946729245
SNP_P4_6714_15631931	NC_021160.1	Ca_kabuli_chr01	15631931	AA	CC	1946729247
SNP_P4_6715_15657090	NC_021160.1	Ca_kabuli_chr01	15657090	CC	TT	1946729248
SNP_P4_6716_15657129	NC_021160.1	Ca_kabuli_chr01	15657129	TT	CC	1946729250
SNP_P4_6717_15657163	NC_021160.1	Ca_kabuli_chr01	15657163	CC	TT	1946729252
SNP_P4_6718_15659500	NC_021160.1	Ca_kabuli_chr01	15659500	TT	CC	1946729254
SNP_P4_6719_15667528	NC_021160.1	Ca_kabuli_chr01	15667528	AA	CC	1946729256
SNP_P4_6720_15667544	NC_021160.1	Ca_kabuli_chr01	15667544	AA	GG	1946729258
SNP_P4_6721_15667571	NC_021160.1	Ca_kabuli_chr01	15667571	CC	TT	1946729260
SNP_P4_6722_15714125	NC_021160.1	Ca_kabuli_chr01	15714125	CC	TT	1946729262
SNP_P4_6723_15714153	NC_021160.1	Ca_kabuli_chr01	15714153	TT	CC	1946729264
SNP_P4_6724_15714932	NC_021160.1	Ca_kabuli_chr01	15714932	GG	AA	1946729266
SNP_P4_6725_15714934	NC_021160.1	Ca_kabuli_chr01	15714934	GG	AA	1946729268
SNP_P4_6726_15716165	NC_021160.1	Ca_kabuli_chr01	15716165	AA	CC	1946729270
SNP_P4_6727_15716208	NC_021160.1	Ca_kabuli_chr01	15716208	TT	CC	1946729272
SNP_P4_6728_15716621	NC_021160.1	Ca_kabuli_chr01	15716621	TT	CC	1946729274
SNP_P4_6729_15725490	NC_021160.1	Ca_kabuli_chr01	15725490	GG	TT	1946729276
SNP_P4_6730_15774414	NC_021160.1	Ca_kabuli_chr01	15774414	TT	CC	1946729278
SNP_P4_6731_15774846	NC_021160.1	Ca_kabuli_chr01	15774846	AA	GG	1946729280
SNP_P4_6732_15775173	NC_021160.1	Ca_kabuli_chr01	15775173	CC	TT	1946729282
SNP_P4_6733_15805306	NC_021160.1	Ca_kabuli_chr01	15805306	TT	CC	1946729284
SNP_P4_6734_15820687	NC_021160.1	Ca_kabuli_chr01	15820687	CC	AA	1946729286
SNP_P4_6736_15848552	NC_021160.1	Ca_kabuli_chr01	15848552	AA	GG	1946729288
SNP_P4_6737_15849319	NC_021160.1	Ca_kabuli_chr01	15849319	CC	TT	1946729290
SNP_P4_6739_15851675	NC_021160.1	Ca_kabuli_chr01	15851675	GG	AA	1946729292
SNP_P4_6740_15852887	NC_021160.1	Ca_kabuli_chr01	15852887	AA	GG	1946729294
SNP_P4_6741_15857251	NC_021160.1	Ca_kabuli_chr01	15857251	TT	CC	1946729296
SNP_P4_6742_15862538	NC_021160.1	Ca_kabuli_chr01	15862538	GG	TT	1946729298
SNP_P4_6744_15870883	NC_021160.1	Ca_kabuli_chr01	15870883	TT	CC	1946729300
SNP_P4_6745_15871782	NC_021160.1	Ca_kabuli_chr01	15871782	TT	GG	1946729302
SNP_P4_6747_15872364	NC_021160.1	Ca_kabuli_chr01	15872364	GG	CC	1946729304
SNP_P4_6748_15875604	NC_021160.1	Ca_kabuli_chr01	15875604	AA	TT	1946729306
SNP_P4_6749_15876582	NC_021160.1	Ca_kabuli_chr01	15876582	TT	AA	1946729308
SNP_P4_6750_15878912	NC_021160.1	Ca_kabuli_chr01	15878912	TT	AA	1946729310
SNP_P4_6751_15897879	NC_021160.1	Ca_kabuli_chr01	15897879	GG	AA	1946729312
SNP_P4_6752_15899705	NC_021160.1	Ca_kabuli_chr01	15899705	CC	AA	1946729314
SNP_P4_6754_15941156	NC_021160.1	Ca_kabuli_chr01	15941156	TT	CC	1946729316

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_6757_15975977	NC_021160.1	Ca_kabuli_chr01	15975977	TT	CC	1946729320
SNP_P4_6758_16011000	NC_021160.1	Ca_kabuli_chr01	16011000	GG	AA	1946729322
SNP_P4_6759_16013567	NC_021160.1	Ca_kabuli_chr01	16013567	AA	GG	1946729324
SNP_P4_6760_16019946	NC_021160.1	Ca_kabuli_chr01	16019946	GG	AA	1946729326
SNP_P4_6761_16022194	NC_021160.1	Ca_kabuli_chr01	16022194	GG	AA	1946729328
SNP_P4_6762_16033422	NC_021160.1	Ca_kabuli_chr01	16033422	AA	TT	1946729330
SNP_P4_6763_16033434	NC_021160.1	Ca_kabuli_chr01	16033434	AA	TT	1946729332
SNP_P4_6764_16035316	NC_021160.1	Ca_kabuli_chr01	16035316	TT	CC	1946729334
SNP_P4_6765_16043608	NC_021160.1	Ca_kabuli_chr01	16043608	TT	GG	1946729336
SNP_P4_6766_16044834	NC_021160.1	Ca_kabuli_chr01	16044834	AA	CC	1946729338
SNP_P4_6767_16047658	NC_021160.1	Ca_kabuli_chr01	16047658	GG	CC	1946729340
SNP_P4_6768_16048569	NC_021160.1	Ca_kabuli_chr01	16048569	TT	AA	1946729342
SNP_P4_6769_16054549	NC_021160.1	Ca_kabuli_chr01	16054549	AA	GG	1946729344
SNP_P4_6770_16064879	NC_021160.1	Ca_kabuli_chr01	16064879	TT	AA	1946729346
SNP_P4_6771_16068203	NC_021160.1	Ca_kabuli_chr01	16068203	CC	TT	1946729348
SNP_P4_6772_16068209	NC_021160.1	Ca_kabuli_chr01	16068209	CC	GG	1946729350
SNP_P4_6773_16068240	NC_021160.1	Ca_kabuli_chr01	16068240	CC	AA	1946729351
SNP_P4_6774_16068265	NC_021160.1	Ca_kabuli_chr01	16068265	GG	AA	1946729353
SNP_P4_6775_16068274	NC_021160.1	Ca_kabuli_chr01	16068274	TT	CC	1946729355
SNP_P4_6776_16069181	NC_021160.1	Ca_kabuli_chr01	16069181	CC	AA	1946729357
SNP_P4_6778_16078189	NC_021160.1	Ca_kabuli_chr01	16078189	GG	TT	1946729359
SNP_P4_6779_16085141	NC_021160.1	Ca_kabuli_chr01	16085141	CC	TT	1946729361
SNP_P4_6780_16085276	NC_021160.1	Ca_kabuli_chr01	16085276	AA	TT	1946729363
SNP_P4_6781_16086269	NC_021160.1	Ca_kabuli_chr01	16086269	TT	CC	1946729365
SNP_P4_6782_16086548	NC_021160.1	Ca_kabuli_chr01	16086548	TT	CC	1946729367
SNP_P4_6783_16086915	NC_021160.1	Ca_kabuli_chr01	16086915	GG	CC	1946729369
SNP_P4_6784_16087033	NC_021160.1	Ca_kabuli_chr01	16087033	AA	GG	1946729371
SNP_P4_6785_16087227	NC_021160.1	Ca_kabuli_chr01	16087227	TT	CC	1946729372
SNP_P4_6786_16087274	NC_021160.1	Ca_kabuli_chr01	16087274	GG	AA	1946729374
SNP_P4_6787_16087344	NC_021160.1	Ca_kabuli_chr01	16087344	AA	GG	1946729376
SNP_P4_6788_16087346	NC_021160.1	Ca_kabuli_chr01	16087346	AA	GG	1946729378
SNP_P4_6789_16087348	NC_021160.1	Ca_kabuli_chr01	16087348	GG	AA	1946729380
SNP_P4_6790_16087350	NC_021160.1	Ca_kabuli_chr01	16087350	GG	CC	1946729382
SNP_P4_6791_16087354	NC_021160.1	Ca_kabuli_chr01	16087354	CC	AA	1946729384
SNP_P4_6792_16087383	NC_021160.1	Ca_kabuli_chr01	16087383	TT	AA	1946729386
SNP_P4_6793_16087412	NC_021160.1	Ca_kabuli_chr01	16087412	CC	TT	1946729388
SNP_P4_6794_16087608	NC_021160.1	Ca_kabuli_chr01	16087608	AA	GG	1946729390
SNP_P4_6795_16088913	NC_021160.1	Ca_kabuli_chr01	16088913	AA	CC	1946729391
SNP_P4_6796_16089047	NC_021160.1	Ca_kabuli_chr01	16089047	TT	CC	1946729393
SNP_P4_6797_16089814	NC_021160.1	Ca_kabuli_chr01	16089814	AA	TT	1946729395
SNP_P4_6798_16089977	NC_021160.1	Ca_kabuli_chr01	16089977	GG	AA	1946729397

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_6801_16092353	NC_021160.1	Ca_kabuli_chr01	16092353	GG	AA	1946729401
SNP_P4_6802_16092442	NC_021160.1	Ca_kabuli_chr01	16092442	GG	TT	1946729403
SNP_P4_6803_16092679	NC_021160.1	Ca_kabuli_chr01	16092679	GG	AA	1946729405
SNP_P4_6804_16095829	NC_021160.1	Ca_kabuli_chr01	16095829	TT	AA	1946729407
SNP_P4_6805_16096034	NC_021160.1	Ca_kabuli_chr01	16096034	GG	AA	1946729409
SNP_P4_6806_16105353	NC_021160.1	Ca_kabuli_chr01	16105353	AA	GG	1946729411
SNP_P4_6807_16105379	NC_021160.1	Ca_kabuli_chr01	16105379	GG	AA	1946729413
SNP_P4_6808_16105409	NC_021160.1	Ca_kabuli_chr01	16105409	CC	TT	1946729415
SNP_P4_6809_16105424	NC_021160.1	Ca_kabuli_chr01	16105424	GG	AA	1946729417
SNP_P4_6810_16105780	NC_021160.1	Ca_kabuli_chr01	16105780	CC	AA	1946729419
SNP_P4_6811_16105861	NC_021160.1	Ca_kabuli_chr01	16105861	CC	GG	1946729421
SNP_P4_6812_16106277	NC_021160.1	Ca_kabuli_chr01	16106277	GG	TT	1946729423
SNP_P4_6813_16106311	NC_021160.1	Ca_kabuli_chr01	16106311	GG	AA	1946729425
SNP_P4_6814_16107734	NC_021160.1	Ca_kabuli_chr01	16107734	AA	CC	1946729427
SNP_P4_6815_16108072	NC_021160.1	Ca_kabuli_chr01	16108072	TT	CC	1946729429
SNP_P4_6816_16108319	NC_021160.1	Ca_kabuli_chr01	16108319	GG	AA	1946729431
SNP_P4_6817_16111973	NC_021160.1	Ca_kabuli_chr01	16111973	AA	GG	1946729433
SNP_P4_6818_16112160	NC_021160.1	Ca_kabuli_chr01	16112160	AA	TT	1946729435
SNP_P4_6819_16116056	NC_021160.1	Ca_kabuli_chr01	16116056	GG	AA	1946729437
SNP_P4_6820_16116082	NC_021160.1	Ca_kabuli_chr01	16116082	TT	CC	1946729439
SNP_P4_6821_16116096	NC_021160.1	Ca_kabuli_chr01	16116096	CC	AA	1946729441
SNP_P4_6822_16116106	NC_021160.1	Ca_kabuli_chr01	16116106	AA	GG	1946729443
SNP_P4_6823_16117160	NC_021160.1	Ca_kabuli_chr01	16117160	CC	TT	1946729445
SNP_P4_6824_16118148	NC_021160.1	Ca_kabuli_chr01	16118148	TT	CC	1946729446
SNP_P4_6825_16118151	NC_021160.1	Ca_kabuli_chr01	16118151	GG	TT	1946729448
SNP_P4_6827_16118693	NC_021160.1	Ca_kabuli_chr01	16118693	TT	CC	1946729450
SNP_P4_6829_16119912	NC_021160.1	Ca_kabuli_chr01	16119912	TT	CC	1946729452
SNP_P4_6830_16121479	NC_021160.1	Ca_kabuli_chr01	16121479	GG	CC	1946729454
SNP_P4_6831_16121930	NC_021160.1	Ca_kabuli_chr01	16121930	CC	AA	1946729456
SNP_P4_6832_16132790	NC_021160.1	Ca_kabuli_chr01	16132790	CC	TT	1946729458
SNP_P4_6833_16133030	NC_021160.1	Ca_kabuli_chr01	16133030	AA	TT	1946729460
SNP_P4_6834_16133107	NC_021160.1	Ca_kabuli_chr01	16133107	CC	GG	1946729462
SNP_P4_6835_16133154	NC_021160.1	Ca_kabuli_chr01	16133154	AA	GG	1946729464
SNP_P4_6836_16133213	NC_021160.1	Ca_kabuli_chr01	16133213	GG	CC	1946729466
SNP_P4_6837_16134109	NC_021160.1	Ca_kabuli_chr01	16134109	CC	AA	1946729468
SNP_P4_6838_16134131	NC_021160.1	Ca_kabuli_chr01	16134131	CC	TT	1946729470
SNP_P4_6840_16145124	NC_021160.1	Ca_kabuli_chr01	16145124	GG	AA	1946729472
SNP_P4_6841_16145146	NC_021160.1	Ca_kabuli_chr01	16145146	GG	TT	1946729474
SNP_P4_6842_16145206	NC_021160.1	Ca_kabuli_chr01	16145206	CC	TT	1946729476
SNP_P4_6843_16147447	NC_021160.1	Ca_kabuli_chr01	16147447	CC	GG	1946729478
SNP_P4_6844_16154837	NC_021160.1	Ca_kabuli_chr01	16154837	GG	CC	1946729480

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_6846_16154946	NC_021160.1	Ca_kabuli_chr01	16154946	AA	GG	1946729484
SNP_P4_6847_16154992	NC_021160.1	Ca_kabuli_chr01	16154992	TT	CC	1946729486
SNP_P4_6848_16156322	NC_021160.1	Ca_kabuli_chr01	16156322	AA	GG	1946729488
SNP_P4_6849_16156551	NC_021160.1	Ca_kabuli_chr01	16156551	CC	GG	1946729490
SNP_P4_6851_16156852	NC_021160.1	Ca_kabuli_chr01	16156852	AA	CC	1946729492
SNP_P4_6852_16157167	NC_021160.1	Ca_kabuli_chr01	16157167	AA	GG	1946729494
SNP_P4_6853_16157314	NC_021160.1	Ca_kabuli_chr01	16157314	AA	GG	1946729496
SNP_P4_6854_16159938	NC_021160.1	Ca_kabuli_chr01	16159938	TT	CC	1946729498
SNP_P4_6855_16159949	NC_021160.1	Ca_kabuli_chr01	16159949	GG	AA	1946729500
SNP_P4_6856_16160234	NC_021160.1	Ca_kabuli_chr01	16160234	AA	GG	1946729502
SNP_P4_6858_16160401	NC_021160.1	Ca_kabuli_chr01	16160401	CC	TT	1946729503
SNP_P4_6859_16160748	NC_021160.1	Ca_kabuli_chr01	16160748	CC	TT	1946729505
SNP_P4_6860_16160749	NC_021160.1	Ca_kabuli_chr01	16160749	AA	TT	1946729507
SNP_P4_6861_16160750	NC_021160.1	Ca_kabuli_chr01	16160750	AA	TT	1946729509
SNP_P4_6862_16160751	NC_021160.1	Ca_kabuli_chr01	16160751	AA	GG	1946729511
SNP_P4_6864_16161553	NC_021160.1	Ca_kabuli_chr01	16161553	AA	TT	1946729513
SNP_P4_6865_16161811	NC_021160.1	Ca_kabuli_chr01	16161811	AA	TT	1946729515
SNP_P4_6866_16161832	NC_021160.1	Ca_kabuli_chr01	16161832	CC	GG	1946729517
SNP_P4_6867_16162310	NC_021160.1	Ca_kabuli_chr01	16162310	GG	TT	1946729519
SNP_P4_6868_16162340	NC_021160.1	Ca_kabuli_chr01	16162340	GG	AA	1946729521
SNP_P4_6869_16165659	NC_021160.1	Ca_kabuli_chr01	16165659	AA	GG	1946729523
SNP_P4_6870_16165661	NC_021160.1	Ca_kabuli_chr01	16165661	CC	TT	1946729525
SNP_P4_6871_16166967	NC_021160.1	Ca_kabuli_chr01	16166967	TT	CC	1946729527
SNP_P4_6872_16166975	NC_021160.1	Ca_kabuli_chr01	16166975	TT	AA	1946729529
SNP_P4_6873_16167158	NC_021160.1	Ca_kabuli_chr01	16167158	TT	AA	1946729531
SNP_P4_6874_16168682	NC_021160.1	Ca_kabuli_chr01	16168682	AA	GG	1946729532
SNP_P4_6875_16170026	NC_021160.1	Ca_kabuli_chr01	16170026	GG	AA	1946729534
SNP_P4_6876_16171239	NC_021160.1	Ca_kabuli_chr01	16171239	GG	AA	1946729536
SNP_P4_6877_16171254	NC_021160.1	Ca_kabuli_chr01	16171254	AA	CC	1946729538
SNP_P4_6878_16171256	NC_021160.1	Ca_kabuli_chr01	16171256	CC	TT	1946729540
SNP_P4_6879_16171692	NC_021160.1	Ca_kabuli_chr01	16171692	AA	GG	1946729542
SNP_P4_6880_16171696	NC_021160.1	Ca_kabuli_chr01	16171696	CC	TT	1946729544
SNP_P4_6881_16171713	NC_021160.1	Ca_kabuli_chr01	16171713	GG	AA	1946729546
SNP_P4_6882_16172259	NC_021160.1	Ca_kabuli_chr01	16172259	TT	CC	1946729548
SNP_P4_6883_16172271	NC_021160.1	Ca_kabuli_chr01	16172271	TT	GG	1946729550
SNP_P4_6884_16172618	NC_021160.1	Ca_kabuli_chr01	16172618	CC	TT	1946729552
SNP_P4_6885_16173138	NC_021160.1	Ca_kabuli_chr01	16173138	TT	CC	1946729554
SNP_P4_6886_16173807	NC_021160.1	Ca_kabuli_chr01	16173807	CC	TT	1946729556
SNP_P4_6888_16174663	NC_021160.1	Ca_kabuli_chr01	16174663	TT	CC	1946729558
SNP_P4_6889_16174779	NC_021160.1	Ca_kabuli_chr01	16174779	TT	CC	1946729560
SNP_P4_6890_16176036	NC_021160.1	Ca_kabuli_chr01	16176036	GG	AA	1946729562

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_6892_16176096	NC_021160.1	Ca_kabuli_chr01	16176096	AA	GG	1946729567
SNP_P4_6893_16176355	NC_021160.1	Ca_kabuli_chr01	16176355	AA	GG	1946729569
SNP_P4_6894_16176411	NC_021160.1	Ca_kabuli_chr01	16176411	TT	CC	1946729571
SNP_P4_6895_16176412	NC_021160.1	Ca_kabuli_chr01	16176412	GG	AA	1946729573
SNP_P4_6897_16178317	NC_021160.1	Ca_kabuli_chr01	16178317	GG	TT	1946729575
SNP_P4_6898_16179684	NC_021160.1	Ca_kabuli_chr01	16179684	GG	AA	1946729577
SNP_P4_6899_16179702	NC_021160.1	Ca_kabuli_chr01	16179702	GG	AA	1946729579
SNP_P4_6900_16179851	NC_021160.1	Ca_kabuli_chr01	16179851	AA	CC	1946729581
SNP_P4_6901_16179857	NC_021160.1	Ca_kabuli_chr01	16179857	TT	AA	1946729583
SNP_P4_6902_16182198	NC_021160.1	Ca_kabuli_chr01	16182198	TT	AA	1946729585
SNP_P4_6903_16182212	NC_021160.1	Ca_kabuli_chr01	16182212	GG	AA	1946729587
SNP_P4_6904_16182216	NC_021160.1	Ca_kabuli_chr01	16182216	CC	TT	1946729589
SNP_P4_6905_16182361	NC_021160.1	Ca_kabuli_chr01	16182361	CC	TT	1946729591
SNP_P4_6906_16182477	NC_021160.1	Ca_kabuli_chr01	16182477	CC	TT	1946729593
SNP_P4_6907_16182496	NC_021160.1	Ca_kabuli_chr01	16182496	AA	TT	1946729595
SNP_P4_6908_16183108	NC_021160.1	Ca_kabuli_chr01	16183108	TT	CC	1946729597
SNP_P4_6909_16185215	NC_021160.1	Ca_kabuli_chr01	16185215	TT	AA	1946729599
SNP_P4_6911_16185354	NC_021160.1	Ca_kabuli_chr01	16185354	CC	TT	1946729602
SNP_P4_6912_16185428	NC_021160.1	Ca_kabuli_chr01	16185428	CC	TT	1946729604
SNP_P4_6913_16186401	NC_021160.1	Ca_kabuli_chr01	16186401	AA	GG	1946729606
SNP_P4_6914_16186416	NC_021160.1	Ca_kabuli_chr01	16186416	GG	AA	1946729608
SNP_P4_6915_16186817	NC_021160.1	Ca_kabuli_chr01	16186817	GG	TT	1946729610
SNP_P4_6917_16189561	NC_021160.1	Ca_kabuli_chr01	16189561	AA	CC	1946729612
SNP_P4_6918_16189785	NC_021160.1	Ca_kabuli_chr01	16189785	GG	AA	1946729614
SNP_P4_6919_16190689	NC_021160.1	Ca_kabuli_chr01	16190689	TT	AA	1946729616
SNP_P4_6920_16193036	NC_021160.1	Ca_kabuli_chr01	16193036	CC	TT	1946729619
SNP_P4_6921_16193056	NC_021160.1	Ca_kabuli_chr01	16193056	AA	TT	1946729620
SNP_P4_6922_16193377	NC_021160.1	Ca_kabuli_chr01	16193377	GG	AA	1946729622
SNP_P4_6923_16193412	NC_021160.1	Ca_kabuli_chr01	16193412	CC	AA	1946729624
SNP_P4_6924_16193741	NC_021160.1	Ca_kabuli_chr01	16193741	AA	GG	1946729627
SNP_P4_6925_16193742	NC_021160.1	Ca_kabuli_chr01	16193742	AA	GG	1946729629
SNP_P4_6926_16193906	NC_021160.1	Ca_kabuli_chr01	16193906	TT	CC	1946729631
SNP_P4_6927_16193907	NC_021160.1	Ca_kabuli_chr01	16193907	AA	GG	1946729633
SNP_P4_6928_16193911	NC_021160.1	Ca_kabuli_chr01	16193911	GG	AA	1946729635
SNP_P4_6929_16194574	NC_021160.1	Ca_kabuli_chr01	16194574	AA	CC	1946729637
SNP_P4_6930_16197252	NC_021160.1	Ca_kabuli_chr01	16197252	GG	CC	1946729639
SNP_P4_6931_16197259	NC_021160.1	Ca_kabuli_chr01	16197259	TT	CC	1946729641
SNP_P4_6932_16197282	NC_021160.1	Ca_kabuli_chr01	16197282	GG	TT	1946729644
SNP_P4_6933_16197686	NC_021160.1	Ca_kabuli_chr01	16197686	TT	AA	1946729646
SNP_P4_6934_16197704	NC_021160.1	Ca_kabuli_chr01	16197704	CC	TT	1946729648
SNP_P4_6935_16197855	NC_021160.1	Ca_kabuli_chr01	16197855	CC	TT	1946729650

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_6937_16198000	NC_021160.1	Ca_kabuli_chr01	16198000	AA	TT	1946729654
SNP_P4_6938_16198137	NC_021160.1	Ca_kabuli_chr01	16198137	CC	AA	1946729656
SNP_P4_6939_16198142	NC_021160.1	Ca_kabuli_chr01	16198142	AA	TT	1946729658
SNP_P4_6941_16198360	NC_021160.1	Ca_kabuli_chr01	16198360	CC	TT	1946729660
SNP_P4_6942_16198367	NC_021160.1	Ca_kabuli_chr01	16198367	GG	AA	1946729662
SNP_P4_6943_16198433	NC_021160.1	Ca_kabuli_chr01	16198433	AA	GG	1946729664
SNP_P4_6944_16199125	NC_021160.1	Ca_kabuli_chr01	16199125	TT	CC	1946729666
SNP_P4_6945_16199144	NC_021160.1	Ca_kabuli_chr01	16199144	GG	AA	1946729668
SNP_P4_6946_16201546	NC_021160.1	Ca_kabuli_chr01	16201546	TT	CC	1946729670
SNP_P4_6947_16201829	NC_021160.1	Ca_kabuli_chr01	16201829	CC	TT	1946729672
SNP_P4_6948_16201916	NC_021160.1	Ca_kabuli_chr01	16201916	GG	AA	1946729674
SNP_P4_6949_16202217	NC_021160.1	Ca_kabuli_chr01	16202217	AA	CC	1946729676
SNP_P4_6950_16203252	NC_021160.1	Ca_kabuli_chr01	16203252	CC	TT	1946729677
SNP_P4_6951_16204213	NC_021160.1	Ca_kabuli_chr01	16204213	GG	TT	1946729679
SNP_P4_6952_16204651	NC_021160.1	Ca_kabuli_chr01	16204651	TT	GG	1946729681
SNP_P4_6953_16204674	NC_021160.1	Ca_kabuli_chr01	16204674	CC	TT	1946729683
SNP_P4_6954_16204723	NC_021160.1	Ca_kabuli_chr01	16204723	CC	TT	1946729685
SNP_P4_6955_16204728	NC_021160.1	Ca_kabuli_chr01	16204728	GG	CC	1946729687
SNP_P4_6957_16206411	NC_021160.1	Ca_kabuli_chr01	16206411	AA	CC	1946729689
SNP_P4_6959_16206954	NC_021160.1	Ca_kabuli_chr01	16206954	GG	AA	1946729691
SNP_P4_6960_16207661	NC_021160.1	Ca_kabuli_chr01	16207661	AA	GG	1946729693
SNP_P4_6961_16207803	NC_021160.1	Ca_kabuli_chr01	16207803	GG	AA	1946729695
SNP_P4_6964_16208180	NC_021160.1	Ca_kabuli_chr01	16208180	TT	AA	1946729696
SNP_P4_6965_16209099	NC_021160.1	Ca_kabuli_chr01	16209099	TT	CC	1946729698
SNP_P4_6966_16209389	NC_021160.1	Ca_kabuli_chr01	16209389	GG	AA	1946729700
SNP_P4_6967_16210172	NC_021160.1	Ca_kabuli_chr01	16210172	CC	AA	1946729702
SNP_P4_6968_16210394	NC_021160.1	Ca_kabuli_chr01	16210394	CC	TT	1946729704
SNP_P4_6969_16210441	NC_021160.1	Ca_kabuli_chr01	16210441	TT	CC	1946729706
SNP_P4_6970_16210567	NC_021160.1	Ca_kabuli_chr01	16210567	CC	AA	1946729708
SNP_P4_6971_16210673	NC_021160.1	Ca_kabuli_chr01	16210673	TT	GG	1946729710
SNP_P4_6972_16210756	NC_021160.1	Ca_kabuli_chr01	16210756	CC	TT	1946729712
SNP_P4_6974_16210905	NC_021160.1	Ca_kabuli_chr01	16210905	TT	CC	1946729714
SNP_P4_6975_16212960	NC_021160.1	Ca_kabuli_chr01	16212960	GG	AA	1946729716
SNP_P4_6979_16282353	NC_021160.1	Ca_kabuli_chr01	16282353	CC	TT	1946729717
SNP_P4_6980_16285734	NC_021160.1	Ca_kabuli_chr01	16285734	CC	TT	1946729719
SNP_P4_6981_16287892	NC_021160.1	Ca_kabuli_chr01	16287892	TT	CC	1946729721
SNP_P4_6982_16288186	NC_021160.1	Ca_kabuli_chr01	16288186	TT	CC	1946729723
SNP_P4_6983_16293198	NC_021160.1	Ca_kabuli_chr01	16293198	GG	AA	1946729725
SNP_P4_6984_16293701	NC_021160.1	Ca_kabuli_chr01	16293701	AA	TT	1946729727
SNP_P4_6985_16293705	NC_021160.1	Ca_kabuli_chr01	16293705	GG	AA	1946729729
SNP_P4_6986_16301159	NC_021160.1	Ca_kabuli_chr01	16301159	AA	GG	1946729731

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_6988_16303650	NC_021160.1	Ca_kabuli_chr01	16303650	TT	CC	1946729735
SNP_P4_6989_16305188	NC_021160.1	Ca_kabuli_chr01	16305188	TT	GG	1946729737
SNP_P4_6990_16305189	NC_021160.1	Ca_kabuli_chr01	16305189	TT	CC	1946729738
SNP_P4_6992_16322694	NC_021160.1	Ca_kabuli_chr01	16322694	AA	GG	1946729740
SNP_P4_6993_16332204	NC_021160.1	Ca_kabuli_chr01	16332204	GG	AA	1946729742
SNP_P4_6994_16370921	NC_021160.1	Ca_kabuli_chr01	16370921	CC	AA	1946729744
SNP_P4_6995_16374464	NC_021160.1	Ca_kabuli_chr01	16374464	AA	CC	1946729746
SNP_P4_6996_16374465	NC_021160.1	Ca_kabuli_chr01	16374465	TT	AA	1946729748
SNP_P4_6997_16396279	NC_021160.1	Ca_kabuli_chr01	16396279	GG	AA	1946729750
SNP_P4_6998_16413957	NC_021160.1	Ca_kabuli_chr01	16413957	CC	TT	1946729752
SNP_P4_6999_16438768	NC_021160.1	Ca_kabuli_chr01	16438768	AA	TT	1946729754
SNP_P4_7000_16440008	NC_021160.1	Ca_kabuli_chr01	16440008	AA	TT	1946729756
SNP_P4_7001_16442395	NC_021160.1	Ca_kabuli_chr01	16442395	TT	GG	1946729757
SNP_P4_7003_16444963	NC_021160.1	Ca_kabuli_chr01	16444963	TT	CC	1946729759
SNP_P4_7004_16467447	NC_021160.1	Ca_kabuli_chr01	16467447	TT	CC	1946729761
SNP_P4_7006_16499444	NC_021160.1	Ca_kabuli_chr01	16499444	AA	GG	1946729763
SNP_P4_7007_16535049	NC_021160.1	Ca_kabuli_chr01	16535049	TT	AA	1946729765
SNP_P4_7008_16535999	NC_021160.1	Ca_kabuli_chr01	16535999	AA	TT	1946729767
SNP_P4_7009_16536240	NC_021160.1	Ca_kabuli_chr01	16536240	GG	TT	1946729769
SNP_P4_7011_16620872	NC_021160.1	Ca_kabuli_chr01	16620872	AA	TT	1946729771
SNP_P4_7012_16620907	NC_021160.1	Ca_kabuli_chr01	16620907	TT	CC	1946729773
SNP_P4_7015_16650507	NC_021160.1	Ca_kabuli_chr01	16650507	GG	AA	1946729775
SNP_P4_7016_16670169	NC_021160.1	Ca_kabuli_chr01	16670169	TT	CC	1946729777
SNP_P4_7017_16670195	NC_021160.1	Ca_kabuli_chr01	16670195	TT	CC	1946729779
SNP_P4_7018_16671745	NC_021160.1	Ca_kabuli_chr01	16671745	GG	CC	1946729781
SNP_P4_7019_16679005	NC_021160.1	Ca_kabuli_chr01	16679005	TT	AA	1946729782
SNP_P4_7020_16685988	NC_021160.1	Ca_kabuli_chr01	16685988	AA	CC	1946729784
SNP_P4_7021_16694418	NC_021160.1	Ca_kabuli_chr01	16694418	TT	CC	1946729786
SNP_P4_7022_16694764	NC_021160.1	Ca_kabuli_chr01	16694764	TT	GG	1946729788
SNP_P4_7023_16694808	NC_021160.1	Ca_kabuli_chr01	16694808	AA	CC	1946729790
SNP_P4_7024_16695761	NC_021160.1	Ca_kabuli_chr01	16695761	TT	CC	1946729792
SNP_P4_7025_16696087	NC_021160.1	Ca_kabuli_chr01	16696087	GG	AA	1946729794
SNP_P4_7026_16707863	NC_021160.1	Ca_kabuli_chr01	16707863	TT	CC	1946729797
SNP_P4_7027_16707867	NC_021160.1	Ca_kabuli_chr01	16707867	AA	CC	1946729799
SNP_P4_7028_16720728	NC_021160.1	Ca_kabuli_chr01	16720728	GG	AA	1946729802
SNP_P4_7031_16776196	NC_021160.1	Ca_kabuli_chr01	16776196	GG	AA	1946729804
SNP_P4_7036_16842380	NC_021160.1	Ca_kabuli_chr01	16842380	TT	CC	1946729806
SNP_P4_7037_16844355	NC_021160.1	Ca_kabuli_chr01	16844355	CC	TT	1946729808
SNP_P4_7038_16859108	NC_021160.1	Ca_kabuli_chr01	16859108	AA	TT	1946729809
SNP_P4_7039_16859542	NC_021160.1	Ca_kabuli_chr01	16859542	CC	TT	1946729811
SNP_P4_7041_16875850	NC_021160.1	Ca_kabuli_chr01	16875850	AA	GG	1946729813

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_7043_16907598	NC_021160.1	Ca_kabuli_chr01	16907598	AA	GG	1946729817
SNP_P4_7044_16912913	NC_021160.1	Ca_kabuli_chr01	16912913	TT	GG	1946729819
SNP_P4_7045_16935314	NC_021160.1	Ca_kabuli_chr01	16935314	GG	TT	1946729821
SNP_P4_7046_16941006	NC_021160.1	Ca_kabuli_chr01	16941006	CC	TT	1946729823
SNP_P4_7048_16948372	NC_021160.1	Ca_kabuli_chr01	16948372	GG	AA	1946729825
SNP_P4_7049_16955618	NC_021160.1	Ca_kabuli_chr01	16955618	TT	CC	1946729827
SNP_P4_7050_16956034	NC_021160.1	Ca_kabuli_chr01	16956034	GG	AA	1946729828
SNP_P4_7052_17030404	NC_021160.1	Ca_kabuli_chr01	17030404	GG	AA	1946729830
SNP_P4_7053_17030944	NC_021160.1	Ca_kabuli_chr01	17030944	AA	GG	1946729832
SNP_P4_7054_17041144	NC_021160.1	Ca_kabuli_chr01	17041144	TT	AA	1946729834
SNP_P4_7055_17097417	NC_021160.1	Ca_kabuli_chr01	17097417	GG	AA	1946729836
SNP_P4_7056_17100878	NC_021160.1	Ca_kabuli_chr01	17100878	TT	CC	1946729838
SNP_P4_7058_17111308	NC_021160.1	Ca_kabuli_chr01	17111308	GG	AA	1946729840
SNP_P4_7059_17124923	NC_021160.1	Ca_kabuli_chr01	17124923	CC	TT	1946729842
SNP_P4_7060_17125087	NC_021160.1	Ca_kabuli_chr01	17125087	TT	CC	1946729844
SNP_P4_7061_17125425	NC_021160.1	Ca_kabuli_chr01	17125425	AA	GG	1946729846
SNP_P4_7062_17125730	NC_021160.1	Ca_kabuli_chr01	17125730	TT	GG	1946729848
SNP_P4_7063_17128078	NC_021160.1	Ca_kabuli_chr01	17128078	GG	AA	1946729850
SNP_P4_7064_17128122	NC_021160.1	Ca_kabuli_chr01	17128122	AA	TT	1946729852
SNP_P4_7065_17128204	NC_021160.1	Ca_kabuli_chr01	17128204	TT	AA	1946729853
SNP_P4_7066_17128237	NC_021160.1	Ca_kabuli_chr01	17128237	TT	GG	1946729855
SNP_P4_7067_17128290	NC_021160.1	Ca_kabuli_chr01	17128290	CC	TT	1946729857
SNP_P4_7068_17128352	NC_021160.1	Ca_kabuli_chr01	17128352	GG	AA	1946729859
SNP_P4_7069_17128370	NC_021160.1	Ca_kabuli_chr01	17128370	CC	TT	1946729861
SNP_P4_7070_17128440	NC_021160.1	Ca_kabuli_chr01	17128440	TT	CC	1946729863
SNP_P4_7071_17132219	NC_021160.1	Ca_kabuli_chr01	17132219	TT	CC	1946729865
SNP_P4_7072_17157687	NC_021160.1	Ca_kabuli_chr01	17157687	TT	CC	1946729867
SNP_P4_7074_17158339	NC_021160.1	Ca_kabuli_chr01	17158339	AA	GG	1946729869
SNP_P4_7075_17159077	NC_021160.1	Ca_kabuli_chr01	17159077	GG	AA	1946729871
SNP_P4_7076_17181782	NC_021160.1	Ca_kabuli_chr01	17181782	AA	CC	1946729873
SNP_P4_7078_17187021	NC_021160.1	Ca_kabuli_chr01	17187021	AA	TT	1946729875
SNP_P4_7079_17187028	NC_021160.1	Ca_kabuli_chr01	17187028	AA	TT	1946729876
SNP_P4_7080_17187029	NC_021160.1	Ca_kabuli_chr01	17187029	AA	TT	1946729878
SNP_P4_7081_17187047	NC_021160.1	Ca_kabuli_chr01	17187047	TT	GG	1946729880
SNP_P4_7082_17187067	NC_021160.1	Ca_kabuli_chr01	17187067	AA	TT	1946729882
SNP_P4_7084_17187542	NC_021160.1	Ca_kabuli_chr01	17187542	CC	GG	1946729884
SNP_P4_7085_17187556	NC_021160.1	Ca_kabuli_chr01	17187556	GG	AA	1946729886
SNP_P4_7086_17187605	NC_021160.1	Ca_kabuli_chr01	17187605	TT	CC	1946729888
SNP_P4_7087_17187619	NC_021160.1	Ca_kabuli_chr01	17187619	GG	AA	1946729890
SNP_P4_7088_17194131	NC_021160.1	Ca_kabuli_chr01	17194131	CC	AA	1946729892
SNP_P4_7089_17196377	NC_021160.1	Ca_kabuli_chr01	17196377	TT	AA	1946729894

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_7092_17226250	NC_021160.1	Ca_kabuli_chr01	17226250	TT	GG	1946729898
SNP_P4_7094_17236379	NC_021160.1	Ca_kabuli_chr01	17236379	CC	TT	1946729900
SNP_P4_7096_17244512	NC_021160.1	Ca_kabuli_chr01	17244512	TT	CC	1946729902
SNP_P4_7097_17255004	NC_021160.1	Ca_kabuli_chr01	17255004	CC	AA	1946729904
SNP_P4_7098_17255007	NC_021160.1	Ca_kabuli_chr01	17255007	AA	GG	1946729906
SNP_P4_7099_17255014	NC_021160.1	Ca_kabuli_chr01	17255014	GG	AA	1946729908
SNP_P4_7100_17255020	NC_021160.1	Ca_kabuli_chr01	17255020	AA	GG	1946729910
SNP_P4_7101_17255037	NC_021160.1	Ca_kabuli_chr01	17255037	TT	GG	1946729912
SNP_P4_7102_17255046	NC_021160.1	Ca_kabuli_chr01	17255046	GG	AA	1946729914
SNP_P4_7103_17255068	NC_021160.1	Ca_kabuli_chr01	17255068	TT	CC	1946729916
SNP_P4_7104_17255074	NC_021160.1	Ca_kabuli_chr01	17255074	GG	AA	1946729918
SNP_P4_7105_17255075	NC_021160.1	Ca_kabuli_chr01	17255075	CC	TT	1946729920
SNP_P4_7106_17255325	NC_021160.1	Ca_kabuli_chr01	17255325	CC	AA	1946729922
SNP_P4_7108_17303221	NC_021160.1	Ca_kabuli_chr01	17303221	TT	AA	1946729924
SNP_P4_7109_17322614	NC_021160.1	Ca_kabuli_chr01	17322614	CC	GG	1946729926
SNP_P4_7110_17331370	NC_021160.1	Ca_kabuli_chr01	17331370	AA	GG	1946729928
SNP_P4_7111_17337037	NC_021160.1	Ca_kabuli_chr01	17337037	TT	AA	1946729930
SNP_P4_7112_17371107	NC_021160.1	Ca_kabuli_chr01	17371107	AA	GG	1946729932
SNP_P4_7113_17372436	NC_021160.1	Ca_kabuli_chr01	17372436	GG	AA	1946729934
SNP_P4_7114_17372614	NC_021160.1	Ca_kabuli_chr01	17372614	CC	AA	1946729935
SNP_P4_7115_17376791	NC_021160.1	Ca_kabuli_chr01	17376791	CC	AA	1946729937
SNP_P4_7116_17376808	NC_021160.1	Ca_kabuli_chr01	17376808	AA	TT	1946729939
SNP_P4_7117_17409706	NC_021160.1	Ca_kabuli_chr01	17409706	TT	CC	1946729941
SNP_P4_7118_17431627	NC_021160.1	Ca_kabuli_chr01	17431627	GG	AA	1946729943
SNP_P4_7119_17431662	NC_021160.1	Ca_kabuli_chr01	17431662	TT	CC	1946729945
SNP_P4_7121_17442463	NC_021160.1	Ca_kabuli_chr01	17442463	CC	TT	1946729947
SNP_P4_7122_17446289	NC_021160.1	Ca_kabuli_chr01	17446289	CC	TT	1946729949
SNP_P4_7124_17531785	NC_021160.1	Ca_kabuli_chr01	17531785	AA	CC	1946729951
SNP_P4_7125_17535628	NC_021160.1	Ca_kabuli_chr01	17535628	TT	AA	1946729953
SNP_P4_7126_17535630	NC_021160.1	Ca_kabuli_chr01	17535630	CC	AA	1946729955
SNP_P4_7127_17543781	NC_021160.1	Ca_kabuli_chr01	17543781	GG	AA	1946729957
SNP_P4_7128_17543787	NC_021160.1	Ca_kabuli_chr01	17543787	AA	TT	1946729959
SNP_P4_7129_17543789	NC_021160.1	Ca_kabuli_chr01	17543789	AA	CC	1946729961
SNP_P4_7130_17562073	NC_021160.1	Ca_kabuli_chr01	17562073	AA	GG	1946729963
SNP_P4_7131_17566774	NC_021160.1	Ca_kabuli_chr01	17566774	GG	AA	1946729965
SNP_P4_7133_17573953	NC_021160.1	Ca_kabuli_chr01	17573953	TT	AA	1946729967
SNP_P4_7134_17595420	NC_021160.1	Ca_kabuli_chr01	17595420	TT	AA	1946729969
SNP_P4_7135_17595424	NC_021160.1	Ca_kabuli_chr01	17595424	TT	GG	1946729971
SNP_P4_7137_17595651	NC_021160.1	Ca_kabuli_chr01	17595651	CC	TT	1946729973
SNP_P4_7138_17614897	NC_021160.1	Ca_kabuli_chr01	17614897	AA	TT	1946729975
SNP_P4_7139_17621201	NC_021160.1	Ca_kabuli_chr01	17621201	AA	GG	1946729977

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_7141_17621507	NC_021160.1	Ca_kabuli_chr01	17621507	AA	TT	1946729981
SNP_P4_7142_17621547	NC_021160.1	Ca_kabuli_chr01	17621547	GG	CC	1946729983
SNP_P4_7143_17621565	NC_021160.1	Ca_kabuli_chr01	17621565	CC	GG	1946729985
SNP_P4_7144_17621706	NC_021160.1	Ca_kabuli_chr01	17621706	AA	TT	1946729987
SNP_P4_7145_17621710	NC_021160.1	Ca_kabuli_chr01	17621710	CC	TT	1946729989
SNP_P4_7146_17621739	NC_021160.1	Ca_kabuli_chr01	17621739	TT	CC	1946729991
SNP_P4_7147_17621891	NC_021160.1	Ca_kabuli_chr01	17621891	GG	AA	1946729993
SNP_P4_7148_17623909	NC_021160.1	Ca_kabuli_chr01	17623909	TT	CC	1946729995
SNP_P4_7150_17630677	NC_021160.1	Ca_kabuli_chr01	17630677	GG	AA	1946729997
SNP_P4_7153_17640939	NC_021160.1	Ca_kabuli_chr01	17640939	AA	GG	1946729999
SNP_P4_7154_17646057	NC_021160.1	Ca_kabuli_chr01	17646057	GG	CC	1946730001
SNP_P4_7155_17686127	NC_021160.1	Ca_kabuli_chr01	17686127	TT	GG	1946730003
SNP_P4_7156_17697634	NC_021160.1	Ca_kabuli_chr01	17697634	TT	CC	1946730005
SNP_P4_7158_17707287	NC_021160.1	Ca_kabuli_chr01	17707287	CC	GG	1946730007
SNP_P4_7159_17717087	NC_021160.1	Ca_kabuli_chr01	17717087	GG	AA	1946730010
SNP_P4_7160_17719641	NC_021160.1	Ca_kabuli_chr01	17719641	TT	GG	1946730012
SNP_P4_7161_17745282	NC_021160.1	Ca_kabuli_chr01	17745282	TT	AA	1946730014
SNP_P4_7162_17745284	NC_021160.1	Ca_kabuli_chr01	17745284	GG	AA	1946730016
SNP_P4_7163_17745285	NC_021160.1	Ca_kabuli_chr01	17745285	TT	AA	1946730018
SNP_P4_7164_17808423	NC_021160.1	Ca_kabuli_chr01	17808423	GG	CC	1946730020
SNP_P4_7165_17808709	NC_021160.1	Ca_kabuli_chr01	17808709	CC	TT	1946730022
SNP_P4_7169_17843830	NC_021160.1	Ca_kabuli_chr01	17843830	CC	TT	1946730024
SNP_P4_7170_17898217	NC_021160.1	Ca_kabuli_chr01	17898217	CC	TT	1946730026
SNP_P4_7171_17898331	NC_021160.1	Ca_kabuli_chr01	17898331	GG	AA	1946730028
SNP_P4_7172_17902566	NC_021160.1	Ca_kabuli_chr01	17902566	TT	GG	1946730030
SNP_P4_7173_17902570	NC_021160.1	Ca_kabuli_chr01	17902570	AA	GG	1946730032
SNP_P4_7174_17914335	NC_021160.1	Ca_kabuli_chr01	17914335	AA	TT	1946730034
SNP_P4_7175_17917238	NC_021160.1	Ca_kabuli_chr01	17917238	GG	AA	1946730036
SNP_P4_7177_17938076	NC_021160.1	Ca_kabuli_chr01	17938076	TT	CC	1946730038
SNP_P4_7178_17941037	NC_021160.1	Ca_kabuli_chr01	17941037	TT	AA	1946730040
SNP_P4_7179_17958840	NC_021160.1	Ca_kabuli_chr01	17958840	AA	GG	1946730042
SNP_P4_7180_18006104	NC_021160.1	Ca_kabuli_chr01	18006104	AA	GG	1946730044
SNP_P4_7182_18058026	NC_021160.1	Ca_kabuli_chr01	18058026	AA	CC	1946730046
SNP_P4_7183_18121671	NC_021160.1	Ca_kabuli_chr01	18121671	TT	AA	1946730048
SNP_P4_7184_18121826	NC_021160.1	Ca_kabuli_chr01	18121826	TT	CC	1946730050
SNP_P4_7185_18121831	NC_021160.1	Ca_kabuli_chr01	18121831	AA	TT	1946730052
SNP_P4_7186_18121872	NC_021160.1	Ca_kabuli_chr01	18121872	AA	GG	1946730054
SNP_P4_7187_18122005	NC_021160.1	Ca_kabuli_chr01	18122005	TT	CC	1946730056
SNP_P4_7188_18122007	NC_021160.1	Ca_kabuli_chr01	18122007	TT	CC	1946730058
SNP_P4_7189_18122013	NC_021160.1	Ca_kabuli_chr01	18122013	TT	CC	1946730060
SNP_P4_7190_18122024	NC_021160.1	Ca_kabuli_chr01	18122024	AA	GG	1946730063

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_7192_18122045	NC_021160.1	Ca_kabuli_chr01	18122045	TT	CC	1946730067
SNP_P4_7193_18122247	NC_021160.1	Ca_kabuli_chr01	18122247	TT	CC	1946730069
SNP_P4_7194_18122264	NC_021160.1	Ca_kabuli_chr01	18122264	AA	GG	1946730071
SNP_P4_7195_18122279	NC_021160.1	Ca_kabuli_chr01	18122279	TT	GG	1946730073
SNP_P4_7197_18182395	NC_021160.1	Ca_kabuli_chr01	18182395	TT	AA	1946730075
SNP_P4_7198_18225044	NC_021160.1	Ca_kabuli_chr01	18225044	CC	TT	1946730077
SNP_P4_7199_18246875	NC_021160.1	Ca_kabuli_chr01	18246875	TT	CC	1946730079
SNP_P4_7200_18279152	NC_021160.1	Ca_kabuli_chr01	18279152	TT	CC	1946730081
SNP_P4_7201_18279233	NC_021160.1	Ca_kabuli_chr01	18279233	GG	AA	1946730083
SNP_P4_7202_18279478	NC_021160.1	Ca_kabuli_chr01	18279478	TT	CC	1946730085
SNP_P4_7203_18295124	NC_021160.1	Ca_kabuli_chr01	18295124	GG	TT	1946730087
SNP_P4_7204_18296907	NC_021160.1	Ca_kabuli_chr01	18296907	GG	CC	1946730089
SNP_P4_7205_18296916	NC_021160.1	Ca_kabuli_chr01	18296916	CC	AA	1946730091
SNP_P4_7206_18297153	NC_021160.1	Ca_kabuli_chr01	18297153	GG	AA	1946730092
SNP_P4_7207_18297178	NC_021160.1	Ca_kabuli_chr01	18297178	TT	CC	1946730093
SNP_P4_7208_18297273	NC_021160.1	Ca_kabuli_chr01	18297273	CC	TT	1946730094
SNP_P4_7210_18298543	NC_021160.1	Ca_kabuli_chr01	18298543	GG	TT	1946730095
SNP_P4_7211_18298548	NC_021160.1	Ca_kabuli_chr01	18298548	TT	CC	1946730096
SNP_P4_7212_18298798	NC_021160.1	Ca_kabuli_chr01	18298798	AA	TT	1946730098
SNP_P4_7213_18299789	NC_021160.1	Ca_kabuli_chr01	18299789	TT	CC	1946730100
SNP_P4_7215_18299933	NC_021160.1	Ca_kabuli_chr01	18299933	CC	TT	1946730102
SNP_P4_7216_18299945	NC_021160.1	Ca_kabuli_chr01	18299945	AA	CC	1946730104
SNP_P4_7217_18299962	NC_021160.1	Ca_kabuli_chr01	18299962	TT	CC	1946730106
SNP_P4_7218_18299987	NC_021160.1	Ca_kabuli_chr01	18299987	TT	CC	1946730108
SNP_P4_7219_18300031	NC_021160.1	Ca_kabuli_chr01	18300031	TT	AA	1946730110
SNP_P4_7220_18300032	NC_021160.1	Ca_kabuli_chr01	18300032	AA	GG	1946730112
SNP_P4_7221_18300065	NC_021160.1	Ca_kabuli_chr01	18300065	AA	GG	1946730114
SNP_P4_7222_18300162	NC_021160.1	Ca_kabuli_chr01	18300162	TT	CC	1946730116
SNP_P4_7223_18300561	NC_021160.1	Ca_kabuli_chr01	18300561	TT	GG	1946730118
SNP_P4_7224_18300578	NC_021160.1	Ca_kabuli_chr01	18300578	GG	CC	1946730120
SNP_P4_7225_18300596	NC_021160.1	Ca_kabuli_chr01	18300596	CC	TT	1946730122
SNP_P4_7228_18301160	NC_021160.1	Ca_kabuli_chr01	18301160	TT	AA	1946730124
SNP_P4_7229_18301178	NC_021160.1	Ca_kabuli_chr01	18301178	GG	AA	1946730126
SNP_P4_7230_18301228	NC_021160.1	Ca_kabuli_chr01	18301228	AA	GG	1946730128
SNP_P4_7231_18301275	NC_021160.1	Ca_kabuli_chr01	18301275	GG	CC	1946730130
SNP_P4_7232_18302162	NC_021160.1	Ca_kabuli_chr01	18302162	CC	TT	1946730132
SNP_P4_7233_18302187	NC_021160.1	Ca_kabuli_chr01	18302187	GG	AA	1946730134
SNP_P4_7234_18302201	NC_021160.1	Ca_kabuli_chr01	18302201	TT	CC	1946730136
SNP_P4_7235_18302220	NC_021160.1	Ca_kabuli_chr01	18302220	GG	TT	1946730138
SNP_P4_7236_18316918	NC_021160.1	Ca_kabuli_chr01	18316918	TT	CC	1946730140
SNP_P4_7237_18316931	NC_021160.1	Ca_kabuli_chr01	18316931	TT	AA	1946730142

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_7240_18317676	NC_021160.1	Ca_kabuli_chr01	18317676	CC	AA	1946730146
SNP_P4_7241_18317939	NC_021160.1	Ca_kabuli_chr01	18317939	GG	AA	1946730148
SNP_P4_7242_18318994	NC_021160.1	Ca_kabuli_chr01	18318994	GG	TT	1946730150
SNP_P4_7243_18319211	NC_021160.1	Ca_kabuli_chr01	18319211	AA	TT	1946730152
SNP_P4_7244_18319257	NC_021160.1	Ca_kabuli_chr01	18319257	GG	AA	1946730154
SNP_P4_7245_18319264	NC_021160.1	Ca_kabuli_chr01	18319264	TT	AA	1946730156
SNP_P4_7247_18319311	NC_021160.1	Ca_kabuli_chr01	18319311	GG	AA	1946730158
SNP_P4_7248_18319342	NC_021160.1	Ca_kabuli_chr01	18319342	TT	GG	1946730160
SNP_P4_7249_18325628	NC_021160.1	Ca_kabuli_chr01	18325628	GG	TT	1946730162
SNP_P4_7250_18325868	NC_021160.1	Ca_kabuli_chr01	18325868	TT	GG	1946730164
SNP_P4_7252_18325903	NC_021160.1	Ca_kabuli_chr01	18325903	AA	GG	1946730166
SNP_P4_7253_18326309	NC_021160.1	Ca_kabuli_chr01	18326309	GG	CC	1946730168
SNP_P4_7254_18326588	NC_021160.1	Ca_kabuli_chr01	18326588	AA	TT	1946730170
SNP_P4_7255_18326649	NC_021160.1	Ca_kabuli_chr01	18326649	AA	GG	1946730173
SNP_P4_7256_18326831	NC_021160.1	Ca_kabuli_chr01	18326831	GG	AA	1946730175
SNP_P4_7257_18327115	NC_021160.1	Ca_kabuli_chr01	18327115	GG	TT	1946730177
SNP_P4_7258_18327264	NC_021160.1	Ca_kabuli_chr01	18327264	GG	AA	1946730179
SNP_P4_7259_18327274	NC_021160.1	Ca_kabuli_chr01	18327274	TT	CC	1946730181
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SNP_P4_7262_18327379	NC_021160.1	Ca_kabuli_chr01	18327379	GG	CC	1946730187
SNP_P4_7263_18327549	NC_021160.1	Ca_kabuli_chr01	18327549	CC	AA	1946730189
SNP_P4_7264_18327571	NC_021160.1	Ca_kabuli_chr01	18327571	GG	AA	1946730191
SNP_P4_7265_18327577	NC_021160.1	Ca_kabuli_chr01	18327577	AA	GG	1946730193
SNP_P4_7267_18327618	NC_021160.1	Ca_kabuli_chr01	18327618	CC	TT	1946730195
SNP_P4_7268_18327623	NC_021160.1	Ca_kabuli_chr01	18327623	GG	AA	1946730197
SNP_P4_7269_18327706	NC_021160.1	Ca_kabuli_chr01	18327706	CC	AA	1946730199
SNP_P4_7270_18327724	NC_021160.1	Ca_kabuli_chr01	18327724	AA	GG	1946730201
SNP_P4_7271_18327732	NC_021160.1	Ca_kabuli_chr01	18327732	AA	CC	1946730204
SNP_P4_7272_18327747	NC_021160.1	Ca_kabuli_chr01	18327747	TT	CC	1946730206
SNP_P4_7273_18327797	NC_021160.1	Ca_kabuli_chr01	18327797	AA	CC	1946730208
SNP_P4_7274_18327852	NC_021160.1	Ca_kabuli_chr01	18327852	CC	TT	1946730210
SNP_P4_7275_18327889	NC_021160.1	Ca_kabuli_chr01	18327889	GG	AA	1946730212
SNP_P4_7276_18327944	NC_021160.1	Ca_kabuli_chr01	18327944	TT	AA	1946730214
SNP_P4_7277_18327945	NC_021160.1	Ca_kabuli_chr01	18327945	CC	TT	1946730216
SNP_P4_7278_18327946	NC_021160.1	Ca_kabuli_chr01	18327946	GG	AA	1946730218
SNP_P4_7279_18327969	NC_021160.1	Ca_kabuli_chr01	18327969	TT	CC	1946730220
SNP_P4_7280_18328009	NC_021160.1	Ca_kabuli_chr01	18328009	CC	AA	1946730222
SNP_P4_7281_18328012	NC_021160.1	Ca_kabuli_chr01	18328012	AA	TT	1946730224
SNP_P4_7282_18328043	NC_021160.1	Ca_kabuli_chr01	18328043	CC	TT	1946730226
SNP_P4_7283_18328084	NC_021160.1	Ca_kabuli_chr01	18328084	GG	TT	1946730228

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_7286_18328288	NC_021160.1	Ca_kabuli_chr01	18328288	AA	TT	1946730232
SNP_P4_7288_18328374	NC_021160.1	Ca_kabuli_chr01	18328374	GG	AA	1946730234
SNP_P4_7289_18328735	NC_021160.1	Ca_kabuli_chr01	18328735	CC	TT	1946730236
SNP_P4_7290_18328752	NC_021160.1	Ca_kabuli_chr01	18328752	TT	CC	1946730238
SNP_P4_7291_18328753	NC_021160.1	Ca_kabuli_chr01	18328753	CC	TT	1946730240
SNP_P4_7292_18363694	NC_021160.1	Ca_kabuli_chr01	18363694	AA	GG	1946730242
SNP_P4_7293_18363764	NC_021160.1	Ca_kabuli_chr01	18363764	GG	AA	1946730244
SNP_P4_7294_18363926	NC_021160.1	Ca_kabuli_chr01	18363926	CC	TT	1946730245
SNP_P4_7295_18363952	NC_021160.1	Ca_kabuli_chr01	18363952	CC	TT	1946730247
SNP_P4_7296_18363986	NC_021160.1	Ca_kabuli_chr01	18363986	GG	AA	1946730249
SNP_P4_7297_18363995	NC_021160.1	Ca_kabuli_chr01	18363995	GG	AA	1946730251
SNP_P4_7298_18364006	NC_021160.1	Ca_kabuli_chr01	18364006	AA	TT	1946730253
SNP_P4_7299_18364007	NC_021160.1	Ca_kabuli_chr01	18364007	AA	GG	1946730255
SNP_P4_7300_18364019	NC_021160.1	Ca_kabuli_chr01	18364019	TT	AA	1946730257
SNP_P4_7301_18364025	NC_021160.1	Ca_kabuli_chr01	18364025	AA	CC	1946730259
SNP_P4_7303_18364069	NC_021160.1	Ca_kabuli_chr01	18364069	TT	AA	1946730261
SNP_P4_7304_18364099	NC_021160.1	Ca_kabuli_chr01	18364099	CC	GG	1946730263
SNP_P4_7305_18364106	NC_021160.1	Ca_kabuli_chr01	18364106	CC	AA	1946730265
SNP_P4_7306_18364147	NC_021160.1	Ca_kabuli_chr01	18364147	GG	AA	1946730267
SNP_P4_7307_18364161	NC_021160.1	Ca_kabuli_chr01	18364161	AA	GG	1946730269
SNP_P4_7308_18368773	NC_021160.1	Ca_kabuli_chr01	18368773	AA	GG	1946730271
SNP_P4_7309_18368817	NC_021160.1	Ca_kabuli_chr01	18368817	CC	GG	1946730273
SNP_P4_7311_18407857	NC_021160.1	Ca_kabuli_chr01	18407857	TT	CC	1946730274
SNP_P4_7312_18407876	NC_021160.1	Ca_kabuli_chr01	18407876	GG	AA	1946730276
SNP_P4_7313_18407913	NC_021160.1	Ca_kabuli_chr01	18407913	TT	CC	1946730278
SNP_P4_7314_18407917	NC_021160.1	Ca_kabuli_chr01	18407917	GG	AA	1946730280
SNP_P4_7315_18407938	NC_021160.1	Ca_kabuli_chr01	18407938	GG	AA	1946730282
SNP_P4_7316_18408067	NC_021160.1	Ca_kabuli_chr01	18408067	CC	AA	1946730284
SNP_P4_7317_18408070	NC_021160.1	Ca_kabuli_chr01	18408070	TT	AA	1946730286
SNP_P4_7318_18408104	NC_021160.1	Ca_kabuli_chr01	18408104	AA	GG	1946730288
SNP_P4_7319_18408121	NC_021160.1	Ca_kabuli_chr01	18408121	AA	GG	1946730290
SNP_P4_7320_18418963	NC_021160.1	Ca_kabuli_chr01	18418963	CC	TT	1946730292
SNP_P4_7321_18418967	NC_021160.1	Ca_kabuli_chr01	18418967	CC	TT	1946730294
SNP_P4_7322_18425154	NC_021160.1	Ca_kabuli_chr01	18425154	CC	TT	1946730296
SNP_P4_7323_18425471	NC_021160.1	Ca_kabuli_chr01	18425471	TT	AA	1946730298
SNP_P4_7324_18425563	NC_021160.1	Ca_kabuli_chr01	18425563	AA	TT	1946730300
SNP_P4_7326_18451233	NC_021160.1	Ca_kabuli_chr01	18451233	GG	AA	1946730302
SNP_P4_7327_18452841	NC_021160.1	Ca_kabuli_chr01	18452841	AA	CC	1946730304
SNP_P4_7328_18452867	NC_021160.1	Ca_kabuli_chr01	18452867	TT	CC	1946730306
SNP_P4_7329_18463380	NC_021160.1	Ca_kabuli_chr01	18463380	GG	AA	1946730308
SNP_P4_7330_18465705	NC_021160.1	Ca_kabuli_chr01	18465705	TT	CC	1946730310

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_7331_18466077	NC_021160.1	Ca_kabuli_chr01	18466077	TT	CC	1946730312
SNP_P4_7332_18466087	NC_021160.1	Ca_kabuli_chr01	18466087	TT	CC	1946730314
SNP_P4_7333_18466093	NC_021160.1	Ca_kabuli_chr01	18466093	TT	CC	1946730316
SNP_P4_7334_18466115	NC_021160.1	Ca_kabuli_chr01	18466115	AA	TT	1946730318
SNP_P4_7335_18484511	NC_021160.1	Ca_kabuli_chr01	18484511	CC	TT	1946730320
SNP_P4_7336_18518142	NC_021160.1	Ca_kabuli_chr01	18518142	CC	TT	1946730322
SNP_P4_7337_18528801	NC_021160.1	Ca_kabuli_chr01	18528801	CC	TT	1946730324
SNP_P4_7339_18552339	NC_021160.1	Ca_kabuli_chr01	18552339	GG	AA	1946730326
SNP_P4_7340_18563031	NC_021160.1	Ca_kabuli_chr01	18563031	TT	AA	1946730328
SNP_P4_7341_18575931	NC_021160.1	Ca_kabuli_chr01	18575931	AA	GG	1946730330
SNP_P4_7342_18575933	NC_021160.1	Ca_kabuli_chr01	18575933	AA	GG	1946730332
SNP_P4_7343_18582856	NC_021160.1	Ca_kabuli_chr01	18582856	GG	TT	1946730334
SNP_P4_7344_18601088	NC_021160.1	Ca_kabuli_chr01	18601088	CC	TT	1946730336
SNP_P4_7345_18601389	NC_021160.1	Ca_kabuli_chr01	18601389	AA	GG	1946730338
SNP_P4_7346_18609534	NC_021160.1	Ca_kabuli_chr01	18609534	TT	AA	1946730340
SNP_P4_7347_18639684	NC_021160.1	Ca_kabuli_chr01	18639684	CC	AA	1946730343
SNP_P4_7348_18663989	NC_021160.1	Ca_kabuli_chr01	18663989	TT	CC	1946730345
SNP_P4_7349_18665684	NC_021160.1	Ca_kabuli_chr01	18665684	TT	CC	1946730347
SNP_P4_7350_18665687	NC_021160.1	Ca_kabuli_chr01	18665687	AA	CC	1946730349
SNP_P4_7351_18665964	NC_021160.1	Ca_kabuli_chr01	18665964	AA	TT	1946730351
SNP_P4_7352_18668622	NC_021160.1	Ca_kabuli_chr01	18668622	TT	CC	1946730353
SNP_P4_7353_18678219	NC_021160.1	Ca_kabuli_chr01	18678219	GG	AA	1946730355
SNP_P4_7354_18688504	NC_021160.1	Ca_kabuli_chr01	18688504	AA	GG	1946730357
SNP_P4_7356_18708741	NC_021160.1	Ca_kabuli_chr01	18708741	TT	CC	1946730359
SNP_P4_7357_18736511	NC_021160.1	Ca_kabuli_chr01	18736511	GG	AA	1946730361
SNP_P4_7358_18795277	NC_021160.1	Ca_kabuli_chr01	18795277	AA	GG	1946730363
SNP_P4_7359_18824205	NC_021160.1	Ca_kabuli_chr01	18824205	TT	CC	1946730366
SNP_P4_7360_18824447	NC_021160.1	Ca_kabuli_chr01	18824447	CC	TT	1946730368
SNP_P4_7361_18824483	NC_021160.1	Ca_kabuli_chr01	18824483	AA	GG	1946730370
SNP_P4_7362_18824489	NC_021160.1	Ca_kabuli_chr01	18824489	TT	CC	1946730372
SNP_P4_7363_18824543	NC_021160.1	Ca_kabuli_chr01	18824543	TT	CC	1946730374
SNP_P4_7364_18832520	NC_021160.1	Ca_kabuli_chr01	18832520	GG	TT	1946730376
SNP_P4_7365_18839371	NC_021160.1	Ca_kabuli_chr01	18839371	TT	AA	1946730378
SNP_P4_7366_18847928	NC_021160.1	Ca_kabuli_chr01	18847928	CC	TT	1946730380
SNP_P4_7367_18861230	NC_021160.1	Ca_kabuli_chr01	18861230	GG	AA	1946730382
SNP_P4_7368_18868457	NC_021160.1	Ca_kabuli_chr01	18868457	AA	TT	1946730384
SNP_P4_7369_18868484	NC_021160.1	Ca_kabuli_chr01	18868484	GG	AA	1946730386
SNP_P4_7370_18868520	NC_021160.1	Ca_kabuli_chr01	18868520	GG	AA	1946730388
SNP_P4_7371_18868557	NC_021160.1	Ca_kabuli_chr01	18868557	TT	CC	1946730390
SNP_P4_7373_18868667	NC_021160.1	Ca_kabuli_chr01	18868667	AA	GG	1946730392
SNP_P4_7374_18868673	NC_021160.1	Ca_kabuli_chr01	18868673	TT	GG	1946730394
SNP_P4_7375_18868679	NC_021160.1	Ca_kabuli_chr01	18868679	AA	GG	1946730396

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_7378_18879933	NC_021160.1	Ca_kabuli_chr01	18879933	TT	CC	1946730400
SNP_P4_7379_18880766	NC_021160.1	Ca_kabuli_chr01	18880766	GG	AA	1946730402
SNP_P4_7380_18881034	NC_021160.1	Ca_kabuli_chr01	18881034	GG	AA	1946730404
SNP_P4_7381_18881527	NC_021160.1	Ca_kabuli_chr01	18881527	CC	GG	1946730406
SNP_P4_7382_18881649	NC_021160.1	Ca_kabuli_chr01	18881649	AA	GG	1946730408
SNP_P4_7383_18917171	NC_021160.1	Ca_kabuli_chr01	18917171	GG	TT	1946730410
SNP_P4_7384_18918221	NC_021160.1	Ca_kabuli_chr01	18918221	CC	TT	1946730412
SNP_P4_7385_18966023	NC_021160.1	Ca_kabuli_chr01	18966023	TT	CC	1946730415
SNP_P4_7386_18993363	NC_021160.1	Ca_kabuli_chr01	18993363	TT	AA	1946730416
SNP_P4_7387_19019269	NC_021160.1	Ca_kabuli_chr01	19019269	TT	CC	1946730418
SNP_P4_7388_19019270	NC_021160.1	Ca_kabuli_chr01	19019270	TT	AA	1946730420
SNP_P4_7389_19025169	NC_021160.1	Ca_kabuli_chr01	19025169	AA	TT	1946730422
SNP_P4_7390_19025170	NC_021160.1	Ca_kabuli_chr01	19025170	AA	TT	1946730424
SNP_P4_7391_19025172	NC_021160.1	Ca_kabuli_chr01	19025172	CC	AA	1946730426
SNP_P4_7392_19025173	NC_021160.1	Ca_kabuli_chr01	19025173	TT	AA	1946730428
SNP_P4_7393_19025177	NC_021160.1	Ca_kabuli_chr01	19025177	TT	CC	1946730430
SNP_P4_7396_19025183	NC_021160.1	Ca_kabuli_chr01	19025183	GG	TT	1946730432
SNP_P4_7397_19025184	NC_021160.1	Ca_kabuli_chr01	19025184	AA	GG	1946730434
SNP_P4_7398_19025186	NC_021160.1	Ca_kabuli_chr01	19025186	TT	CC	1946730436
SNP_P4_7399_19057544	NC_021160.1	Ca_kabuli_chr01	19057544	CC	GG	1946730438
SNP_P4_7400_19059862	NC_021160.1	Ca_kabuli_chr01	19059862	TT	CC	1946730440
SNP_P4_7401_19060124	NC_021160.1	Ca_kabuli_chr01	19060124	GG	AA	1946730442
SNP_P4_7402_19068311	NC_021160.1	Ca_kabuli_chr01	19068311	AA	GG	1946730444
SNP_P4_7404_19084367	NC_021160.1	Ca_kabuli_chr01	19084367	GG	AA	1946730446
SNP_P4_7405_19091169	NC_021160.1	Ca_kabuli_chr01	19091169	GG	AA	1946730448
SNP_P4_7407_19094731	NC_021160.1	Ca_kabuli_chr01	19094731	TT	AA	1946730450
SNP_P4_7408_19111747	NC_021160.1	Ca_kabuli_chr01	19111747	TT	CC	1946730452
SNP_P4_7409_19115795	NC_021160.1	Ca_kabuli_chr01	19115795	TT	CC	1946730454
SNP_P4_7410_19116455	NC_021160.1	Ca_kabuli_chr01	19116455	TT	CC	1946730456
SNP_P4_7411_19125145	NC_021160.1	Ca_kabuli_chr01	19125145	TT	GG	1946730458
SNP_P4_7412_19134959	NC_021160.1	Ca_kabuli_chr01	19134959	GG	AA	1946730460
SNP_P4_7413_19135276	NC_021160.1	Ca_kabuli_chr01	19135276	GG	CC	1946730463
SNP_P4_7414_19150701	NC_021160.1	Ca_kabuli_chr01	19150701	CC	AA	1946730465
SNP_P4_7415_19150894	NC_021160.1	Ca_kabuli_chr01	19150894	CC	TT	1946730467
SNP_P4_7416_19150902	NC_021160.1	Ca_kabuli_chr01	19150902	CC	TT	1946730469
SNP_P4_7417_19150905	NC_021160.1	Ca_kabuli_chr01	19150905	GG	AA	1946730471
SNP_P4_7418_19150913	NC_021160.1	Ca_kabuli_chr01	19150913	GG	AA	1946730473
SNP_P4_7419_19150960	NC_021160.1	Ca_kabuli_chr01	19150960	GG	AA	1946730475
SNP_P4_7421_19151000	NC_021160.1	Ca_kabuli_chr01	19151000	TT	CC	1946730477
SNP_P4_7422_19151002	NC_021160.1	Ca_kabuli_chr01	19151002	CC	AA	1946730479
SNP_P4_7423_19151031	NC_021160.1	Ca_kabuli_chr01	19151031	AA	TT	1946730481

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_7424_19151037	NC_021160.1	Ca_kabuli_chr01	19151037	TT	AA	1946730483
SNP_P4_7425_19151152	NC_021160.1	Ca_kabuli_chr01	19151152	AA	TT	1946730485
SNP_P4_7426_19151218	NC_021160.1	Ca_kabuli_chr01	19151218	CC	TT	1946730487
SNP_P4_7427_19151235	NC_021160.1	Ca_kabuli_chr01	19151235	TT	CC	1946730489
SNP_P4_7428_19151244	NC_021160.1	Ca_kabuli_chr01	19151244	CC	TT	1946730491
SNP_P4_7429_19153197	NC_021160.1	Ca_kabuli_chr01	19153197	TT	GG	1946730493
SNP_P4_7430_19153223	NC_021160.1	Ca_kabuli_chr01	19153223	AA	GG	1946730495
SNP_P4_7431_19153230	NC_021160.1	Ca_kabuli_chr01	19153230	TT	CC	1946730497
SNP_P4_7432_19263244	NC_021160.1	Ca_kabuli_chr01	19263244	AA	GG	1946730499
SNP_P4_7433_19293957	NC_021160.1	Ca_kabuli_chr01	19293957	CC	TT	1946730501
SNP_P4_7434_19304349	NC_021160.1	Ca_kabuli_chr01	19304349	GG	AA	1946730503
SNP_P4_7435_19307885	NC_021160.1	Ca_kabuli_chr01	19307885	TT	CC	1946730505
SNP_P4_7437_19318639	NC_021160.1	Ca_kabuli_chr01	19318639	TT	CC	1946730507
SNP_P4_7438_19331228	NC_021160.1	Ca_kabuli_chr01	19331228	AA	TT	1946730509
SNP_P4_7439_19332449	NC_021160.1	Ca_kabuli_chr01	19332449	GG	AA	1946730511
SNP_P4_7440_19363829	NC_021160.1	Ca_kabuli_chr01	19363829	GG	TT	1946730513
SNP_P4_7441_19364003	NC_021160.1	Ca_kabuli_chr01	19364003	GG	TT	1946730515
SNP_P4_7442_19412119	NC_021160.1	Ca_kabuli_chr01	19412119	GG	AA	1946730517
SNP_P4_7443_19422222	NC_021160.1	Ca_kabuli_chr01	19422222	TT	CC	1946730519
SNP_P4_7444_19422303	NC_021160.1	Ca_kabuli_chr01	19422303	CC	AA	1946730521
SNP_P4_7445_19422493	NC_021160.1	Ca_kabuli_chr01	19422493	TT	CC	1946730523
SNP_P4_7446_19422853	NC_021160.1	Ca_kabuli_chr01	19422853	TT	CC	1946730526
SNP_P4_7448_19422930	NC_021160.1	Ca_kabuli_chr01	19422930	AA	GG	1946730528
SNP_P4_7450_19423090	NC_021160.1	Ca_kabuli_chr01	19423090	AA	CC	1946730529
SNP_P4_7451_19423192	NC_021160.1	Ca_kabuli_chr01	19423192	TT	CC	1946730531
SNP_P4_7452_19423310	NC_021160.1	Ca_kabuli_chr01	19423310	TT	GG	1946730533
SNP_P4_7453_19424185	NC_021160.1	Ca_kabuli_chr01	19424185	CC	TT	1946730535
SNP_P4_7454_19424307	NC_021160.1	Ca_kabuli_chr01	19424307	TT	GG	1946730537
SNP_P4_7455_19427159	NC_021160.1	Ca_kabuli_chr01	19427159	AA	GG	1946730539
SNP_P4_7456_19427623	NC_021160.1	Ca_kabuli_chr01	19427623	TT	CC	1946730541
SNP_P4_7457_19431345	NC_021160.1	Ca_kabuli_chr01	19431345	GG	AA	1946730543
SNP_P4_7458_19431349	NC_021160.1	Ca_kabuli_chr01	19431349	GG	AA	1946730545
SNP_P4_7459_19431381	NC_021160.1	Ca_kabuli_chr01	19431381	TT	CC	1946730547
SNP_P4_7460_19431426	NC_021160.1	Ca_kabuli_chr01	19431426	CC	GG	1946730549
SNP_P4_7462_19431710	NC_021160.1	Ca_kabuli_chr01	19431710	AA	TT	1946730551
SNP_P4_7463_19436879	NC_021160.1	Ca_kabuli_chr01	19436879	GG	CC	1946730553
SNP_P4_7464_19445947	NC_021160.1	Ca_kabuli_chr01	19445947	GG	AA	1946730555
SNP_P4_7465_19454907	NC_021160.1	Ca_kabuli_chr01	19454907	CC	TT	1946730557
SNP_P4_7467_19474159	NC_021160.1	Ca_kabuli_chr01	19474159	AA	GG	1946730559
SNP_P4_7468_19474207	NC_021160.1	Ca_kabuli_chr01	19474207	TT	CC	1946730561
SNP_P4_7470_19499093	NC_021160.1	Ca_kabuli_chr01	19499093	TT	AA	1946730563
SNP_P4_7471_19499140	NC_021160.1	Ca_kabuli_chr01	19499140	CC	GG	1946730565

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_7472_19499186	NC_021160.1	Ca_kabuli_chr01	19499186	AA	CC	1946730567
SNP_P4_7473_19499194	NC_021160.1	Ca_kabuli_chr01	19499194	GG	TT	1946730569
SNP_P4_7474_19499215	NC_021160.1	Ca_kabuli_chr01	19499215	AA	GG	1946730571
SNP_P4_7475_19499229	NC_021160.1	Ca_kabuli_chr01	19499229	CC	TT	1946730573
SNP_P4_7476_19499231	NC_021160.1	Ca_kabuli_chr01	19499231	AA	TT	1946730575
SNP_P4_7477_19499243	NC_021160.1	Ca_kabuli_chr01	19499243	AA	CC	1946730577
SNP_P4_7478_19505878	NC_021160.1	Ca_kabuli_chr01	19505878	CC	TT	1946730579
SNP_P4_7479_19505883	NC_021160.1	Ca_kabuli_chr01	19505883	AA	TT	1946730581
SNP_P4_7480_19505892	NC_021160.1	Ca_kabuli_chr01	19505892	TT	CC	1946730583
SNP_P4_7481_19505945	NC_021160.1	Ca_kabuli_chr01	19505945	TT	AA	1946730585
SNP_P4_7482_19507308	NC_021160.1	Ca_kabuli_chr01	19507308	TT	CC	1946730587
SNP_P4_7483_19507376	NC_021160.1	Ca_kabuli_chr01	19507376	AA	CC	1946730589
SNP_P4_7484_19526652	NC_021160.1	Ca_kabuli_chr01	19526652	TT	GG	1946730591
SNP_P4_7486_19561956	NC_021160.1	Ca_kabuli_chr01	19561956	AA	CC	1946730593
SNP_P4_7487_19619542	NC_021160.1	Ca_kabuli_chr01	19619542	TT	CC	1946730595
SNP_P4_7488_19619554	NC_021160.1	Ca_kabuli_chr01	19619554	CC	TT	1946730597
SNP_P4_7489_19619575	NC_021160.1	Ca_kabuli_chr01	19619575	CC	TT	1946730599
SNP_P4_7490_19619792	NC_021160.1	Ca_kabuli_chr01	19619792	AA	GG	1946730601
SNP_P4_7491_19619915	NC_021160.1	Ca_kabuli_chr01	19619915	TT	CC	1946730603
SNP_P4_7492_19619928	NC_021160.1	Ca_kabuli_chr01	19619928	AA	GG	1946730605
SNP_P4_7493_19619929	NC_021160.1	Ca_kabuli_chr01	19619929	TT	CC	1946730607
SNP_P4_7494_19619954	NC_021160.1	Ca_kabuli_chr01	19619954	AA	GG	1946730609
SNP_P4_7495_19619985	NC_021160.1	Ca_kabuli_chr01	19619985	GG	AA	1946730611
SNP_P4_7496_19619999	NC_021160.1	Ca_kabuli_chr01	19619999	CC	GG	1946730613
SNP_P4_7497_19620012	NC_021160.1	Ca_kabuli_chr01	19620012	GG	AA	1946730615
SNP_P4_7498_19620071	NC_021160.1	Ca_kabuli_chr01	19620071	TT	AA	1946730617
SNP_P4_7499_19626514	NC_021160.1	Ca_kabuli_chr01	19626514	AA	GG	1946730619
SNP_P4_7500_19627543	NC_021160.1	Ca_kabuli_chr01	19627543	TT	CC	1946730621
SNP_P4_7501_19627951	NC_021160.1	Ca_kabuli_chr01	19627951	TT	CC	1946730623
SNP_P4_7502_19628476	NC_021160.1	Ca_kabuli_chr01	19628476	CC	TT	1946730625
SNP_P4_7503_19631708	NC_021160.1	Ca_kabuli_chr01	19631708	TT	CC	1946730627
SNP_P4_7505_19641799	NC_021160.1	Ca_kabuli_chr01	19641799	CC	TT	1946730629
SNP_P4_7506_19645966	NC_021160.1	Ca_kabuli_chr01	19645966	AA	TT	1946730631
SNP_P4_7507_19649710	NC_021160.1	Ca_kabuli_chr01	19649710	CC	TT	1946730633
SNP_P4_7508_19650051	NC_021160.1	Ca_kabuli_chr01	19650051	AA	GG	1946730635
SNP_P4_7509_19652796	NC_021160.1	Ca_kabuli_chr01	19652796	TT	AA	1946730637
SNP_P4_7512_19697171	NC_021160.1	Ca_kabuli_chr01	19697171	CC	TT	1946730639
SNP_P4_7513_19697184	NC_021160.1	Ca_kabuli_chr01	19697184	CC	TT	1946730640
SNP_P4_7514_19697200	NC_021160.1	Ca_kabuli_chr01	19697200	AA	GG	1946730642
SNP_P4_7515_19697553	NC_021160.1	Ca_kabuli_chr01	19697553	CC	TT	1946730644
SNP_P4_7517_19728698	NC_021160.1	Ca_kabuli_chr01	19728698	AA	GG	1946730646
SNP_P4_7518_19742632	NC_021160.1	Ca_kabuli_chr01	19742632	CC	TT	1946730648

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_7520_19742684	NC_021160.1	Ca_kabuli_chr01	19742684	CC	TT	1946730652
SNP_P4_7521_19742693	NC_021160.1	Ca_kabuli_chr01	19742693	GG	AA	1946730654
SNP_P4_7522_19764066	NC_021160.1	Ca_kabuli_chr01	19764066	TT	CC	1946730656
SNP_P4_7523_19780212	NC_021160.1	Ca_kabuli_chr01	19780212	CC	GG	1946730658
SNP_P4_7524_19792765	NC_021160.1	Ca_kabuli_chr01	19792765	AA	CC	1946730660
SNP_P4_7525_19812909	NC_021160.1	Ca_kabuli_chr01	19812909	GG	AA	1946730662
SNP_P4_7526_19812938	NC_021160.1	Ca_kabuli_chr01	19812938	CC	TT	1946730664
SNP_P4_7527_19812997	NC_021160.1	Ca_kabuli_chr01	19812997	CC	TT	1946730666
SNP_P4_7528_19815338	NC_021160.1	Ca_kabuli_chr01	19815338	TT	GG	1946730668
SNP_P4_7529_19815908	NC_021160.1	Ca_kabuli_chr01	19815908	TT	CC	1946730670
SNP_P4_7530_19832527	NC_021160.1	Ca_kabuli_chr01	19832527	AA	GG	1946730672
SNP_P4_7531_19832954	NC_021160.1	Ca_kabuli_chr01	19832954	TT	CC	1946730674
SNP_P4_7532_19846593	NC_021160.1	Ca_kabuli_chr01	19846593	AA	TT	1946730676
SNP_P4_7533_19846594	NC_021160.1	Ca_kabuli_chr01	19846594	TT	AA	1946730678
SNP_P4_7534_19851384	NC_021160.1	Ca_kabuli_chr01	19851384	AA	TT	1946730680
SNP_P4_7535_19851841	NC_021160.1	Ca_kabuli_chr01	19851841	GG	AA	1946730682
SNP_P4_7537_19855921	NC_021160.1	Ca_kabuli_chr01	19855921	AA	GG	1946730684
SNP_P4_7538_19908881	NC_021160.1	Ca_kabuli_chr01	19908881	TT	CC	1946730686
SNP_P4_7539_19909020	NC_021160.1	Ca_kabuli_chr01	19909020	GG	AA	1946730688
SNP_P4_7540_19909287	NC_021160.1	Ca_kabuli_chr01	19909287	GG	TT	1946730690
SNP_P4_7541_19909293	NC_021160.1	Ca_kabuli_chr01	19909293	GG	AA	1946730692
SNP_P4_7542_19918717	NC_021160.1	Ca_kabuli_chr01	19918717	AA	GG	1946730694
SNP_P4_7543_19931308	NC_021160.1	Ca_kabuli_chr01	19931308	GG	TT	1946730695
SNP_P4_7544_19936497	NC_021160.1	Ca_kabuli_chr01	19936497	AA	GG	1946730697
SNP_P4_7546_19952894	NC_021160.1	Ca_kabuli_chr01	19952894	CC	TT	1946730698
SNP_P4_7547_19956139	NC_021160.1	Ca_kabuli_chr01	19956139	AA	GG	1946730699
SNP_P4_7548_19968815	NC_021160.1	Ca_kabuli_chr01	19968815	AA	GG	1946730700
SNP_P4_7549_19970001	NC_021160.1	Ca_kabuli_chr01	19970001	AA	GG	1946730702
SNP_P4_7550_19995971	NC_021160.1	Ca_kabuli_chr01	19995971	AA	GG	1946730703
SNP_P4_7551_20000869	NC_021160.1	Ca_kabuli_chr01	20000869	GG	AA	1946730705
SNP_P4_7552_20055712	NC_021160.1	Ca_kabuli_chr01	20055712	AA	GG	1946730707
SNP_P4_7553_20072771	NC_021160.1	Ca_kabuli_chr01	20072771	TT	AA	1946730709
SNP_P4_7554_20085134	NC_021160.1	Ca_kabuli_chr01	20085134	GG	TT	1946730711
SNP_P4_7555_20132520	NC_021160.1	Ca_kabuli_chr01	20132520	AA	GG	1946730713
SNP_P4_7556_21570091	NC_021160.1	Ca_kabuli_chr01	21570091	CC	TT	1946730715
SNP_P4_7557_21570093	NC_021160.1	Ca_kabuli_chr01	21570093	AA	GG	1946730717
SNP_P4_7558_21570342	NC_021160.1	Ca_kabuli_chr01	21570342	TT	CC	1946730719
SNP_P4_7559_21570399	NC_021160.1	Ca_kabuli_chr01	21570399	TT	CC	1946730721
SNP_P4_7560_21608399	NC_021160.1	Ca_kabuli_chr01	21608399	TT	GG	1946730723
SNP_P4_7561_21640379	NC_021160.1	Ca_kabuli_chr01	21640379	TT	AA	1946730725
SNP_P4_7562_21647285	NC_021160.1	Ca_kabuli_chr01	21647285	GG	AA	1946730726

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_7563_21647895	NC_021160.1	Ca_kabuli_chr01	21647895	AA	GG	1946730727
SNP_P4_7565_21657089	NC_021160.1	Ca_kabuli_chr01	21657089	AA	GG	1946730728
SNP_P4_7566_21657102	NC_021160.1	Ca_kabuli_chr01	21657102	AA	CC	1946730729
SNP_P4_7567_21657337	NC_021160.1	Ca_kabuli_chr01	21657337	AA	TT	1946730731
SNP_P4_7569_21657432	NC_021160.1	Ca_kabuli_chr01	21657432	TT	CC	1946730733
SNP_P4_7570_21657436	NC_021160.1	Ca_kabuli_chr01	21657436	AA	GG	1946730735
SNP_P4_7571_21657559	NC_021160.1	Ca_kabuli_chr01	21657559	AA	CC	1946730737
SNP_P4_7572_21657610	NC_021160.1	Ca_kabuli_chr01	21657610	AA	GG	1946730739
SNP_P4_7573_21657625	NC_021160.1	Ca_kabuli_chr01	21657625	AA	GG	1946730741
SNP_P4_7574_21657643	NC_021160.1	Ca_kabuli_chr01	21657643	TT	GG	1946730743
SNP_P4_7575_21657661	NC_021160.1	Ca_kabuli_chr01	21657661	GG	TT	1946730745
SNP_P4_7576_21657667	NC_021160.1	Ca_kabuli_chr01	21657667	GG	AA	1946730747
SNP_P4_7577_21657697	NC_021160.1	Ca_kabuli_chr01	21657697	AA	GG	1946730749
SNP_P4_7578_21657714	NC_021160.1	Ca_kabuli_chr01	21657714	GG	AA	1946730751
SNP_P4_7580_21657718	NC_021160.1	Ca_kabuli_chr01	21657718	CC	TT	1946730753
SNP_P4_7581_21657732	NC_021160.1	Ca_kabuli_chr01	21657732	AA	GG	1946730755
SNP_P4_7582_21657733	NC_021160.1	Ca_kabuli_chr01	21657733	GG	AA	1946730757
SNP_P4_7583_21657769	NC_021160.1	Ca_kabuli_chr01	21657769	GG	AA	1946730759
SNP_P4_7584_21657787	NC_021160.1	Ca_kabuli_chr01	21657787	AA	TT	1946730760
SNP_P4_7585_21657793	NC_021160.1	Ca_kabuli_chr01	21657793	AA	GG	1946730762
SNP_P4_7586_21657811	NC_021160.1	Ca_kabuli_chr01	21657811	AA	GG	1946730764
SNP_P4_7587_21657817	NC_021160.1	Ca_kabuli_chr01	21657817	GG	AA	1946730766
SNP_P4_7588_21657838	NC_021160.1	Ca_kabuli_chr01	21657838	TT	CC	1946730768
SNP_P4_7589_21657847	NC_021160.1	Ca_kabuli_chr01	21657847	TT	AA	1946730770
SNP_P4_7590_21657850	NC_021160.1	Ca_kabuli_chr01	21657850	AA	TT	1946730772
SNP_P4_7591_21657859	NC_021160.1	Ca_kabuli_chr01	21657859	GG	AA	1946730774
SNP_P4_7592_21662493	NC_021160.1	Ca_kabuli_chr01	21662493	GG	AA	1946730776
SNP_P4_7593_21699877	NC_021160.1	Ca_kabuli_chr01	21699877	AA	GG	1946730778
SNP_P4_7594_21700172	NC_021160.1	Ca_kabuli_chr01	21700172	TT	CC	1946730780
SNP_P4_7596_21749813	NC_021160.1	Ca_kabuli_chr01	21749813	AA	GG	1946730781
SNP_P4_7597_21763125	NC_021160.1	Ca_kabuli_chr01	21763125	GG	AA	1946730783
SNP_P4_7598_21768976	NC_021160.1	Ca_kabuli_chr01	21768976	TT	CC	1946730785
SNP_P4_7599_21777420	NC_021160.1	Ca_kabuli_chr01	21777420	AA	TT	1946730787
SNP_P4_7600_21777576	NC_021160.1	Ca_kabuli_chr01	21777576	TT	CC	1946730789
SNP_P4_7601_21777841	NC_021160.1	Ca_kabuli_chr01	21777841	CC	AA	1946730791
SNP_P4_7602_21777968	NC_021160.1	Ca_kabuli_chr01	21777968	AA	GG	1946730793
SNP_P4_7603_21780626	NC_021160.1	Ca_kabuli_chr01	21780626	AA	GG	1946730795
SNP_P4_7604_21806769	NC_021160.1	Ca_kabuli_chr01	21806769	AA	GG	1946730797
SNP_P4_7605_21806782	NC_021160.1	Ca_kabuli_chr01	21806782	TT	GG	1946730799
SNP_P4_7606_21806783	NC_021160.1	Ca_kabuli_chr01	21806783	TT	AA	1946730801
SNP_P4_7607_21810552	NC_021160.1	Ca_kabuli_chr01	21810552	AA	GG	1946730803
SNP_P4_7608_21810645	NC_021160.1	Ca_kabuli_chr01	21810645	TT	CC	1946730805

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_7610_21813744	NC_021160.1	Ca_kabuli_chr01	21813744	TT	AA	1946730809
SNP_P4_7612_21873925	NC_021160.1	Ca_kabuli_chr01	21873925	GG	AA	1946730811
SNP_P4_7613_21880190	NC_021160.1	Ca_kabuli_chr01	21880190	AA	TT	1946730813
SNP_P4_7614_21880192	NC_021160.1	Ca_kabuli_chr01	21880192	AA	TT	1946730815
SNP_P4_7615_21883804	NC_021160.1	Ca_kabuli_chr01	21883804	AA	CC	1946730817
SNP_P4_7618_21948954	NC_021160.1	Ca_kabuli_chr01	21948954	AA	CC	1946730819
SNP_P4_7619_21967514	NC_021160.1	Ca_kabuli_chr01	21967514	GG	AA	1946730821
SNP_P4_7620_22019857	NC_021160.1	Ca_kabuli_chr01	22019857	GG	AA	1946730824
SNP_P4_7623_22069342	NC_021160.1	Ca_kabuli_chr01	22069342	CC	AA	1946730826
SNP_P4_7624_22069475	NC_021160.1	Ca_kabuli_chr01	22069475	AA	GG	1946730828
SNP_P4_7625_22070192	NC_021160.1	Ca_kabuli_chr01	22070192	AA	TT	1946730830
SNP_P4_7626_22070203	NC_021160.1	Ca_kabuli_chr01	22070203	AA	TT	1946730832
SNP_P4_7627_22070437	NC_021160.1	Ca_kabuli_chr01	22070437	AA	GG	1946730834
SNP_P4_7628_22070637	NC_021160.1	Ca_kabuli_chr01	22070637	AA	TT	1946730835
SNP_P4_7629_22070648	NC_021160.1	Ca_kabuli_chr01	22070648	GG	AA	1946730837
SNP_P4_7630_22070706	NC_021160.1	Ca_kabuli_chr01	22070706	AA	TT	1946730839
SNP_P4_7631_22070725	NC_021160.1	Ca_kabuli_chr01	22070725	TT	GG	1946730841
SNP_P4_7632_22070779	NC_021160.1	Ca_kabuli_chr01	22070779	TT	GG	1946730843
SNP_P4_7633_22071007	NC_021160.1	Ca_kabuli_chr01	22071007	GG	CC	1946730845
SNP_P4_7634_22071039	NC_021160.1	Ca_kabuli_chr01	22071039	TT	AA	1946730847
SNP_P4_7635_22071052	NC_021160.1	Ca_kabuli_chr01	22071052	CC	AA	1946730849
SNP_P4_7636_22071071	NC_021160.1	Ca_kabuli_chr01	22071071	CC	TT	1946730851
SNP_P4_7637_22071314	NC_021160.1	Ca_kabuli_chr01	22071314	CC	TT	1946730853
SNP_P4_7638_22071320	NC_021160.1	Ca_kabuli_chr01	22071320	CC	TT	1946730855
SNP_P4_7639_22071565	NC_021160.1	Ca_kabuli_chr01	22071565	AA	GG	1946730857
SNP_P4_7640_22071805	NC_021160.1	Ca_kabuli_chr01	22071805	GG	AA	1946730858
SNP_P4_7641_22092000	NC_021160.1	Ca_kabuli_chr01	22092000	TT	AA	1946730860
SNP_P4_7642_22094600	NC_021160.1	Ca_kabuli_chr01	22094600	TT	CC	1946730862
SNP_P4_7644_22100831	NC_021160.1	Ca_kabuli_chr01	22100831	AA	TT	1946730864
SNP_P4_7645_22105441	NC_021160.1	Ca_kabuli_chr01	22105441	CC	TT	1946730866
SNP_P4_7646_22125557	NC_021160.1	Ca_kabuli_chr01	22125557	TT	GG	1946730868
SNP_P4_7647_22125873	NC_021160.1	Ca_kabuli_chr01	22125873	CC	AA	1946730870
SNP_P4_7648_22125892	NC_021160.1	Ca_kabuli_chr01	22125892	CC	AA	1946730872
SNP_P4_7649_22125895	NC_021160.1	Ca_kabuli_chr01	22125895	CC	TT	1946730874
SNP_P4_7650_22125933	NC_021160.1	Ca_kabuli_chr01	22125933	GG	AA	1946730876
SNP_P4_7651_22131043	NC_021160.1	Ca_kabuli_chr01	22131043	CC	TT	1946730878
SNP_P4_7652_22131124	NC_021160.1	Ca_kabuli_chr01	22131124	CC	TT	1946730880
SNP_P4_7653_22131225	NC_021160.1	Ca_kabuli_chr01	22131225	CC	AA	1946730882
SNP_P4_7655_22131347	NC_021160.1	Ca_kabuli_chr01	22131347	AA	GG	1946730884
SNP_P4_7656_22131419	NC_021160.1	Ca_kabuli_chr01	22131419	GG	AA	1946730886
SNP_P4_7657_22131488	NC_021160.1	Ca_kabuli_chr01	22131488	CC	TT	1946730888

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_7660_22131740	NC_021160.1	Ca_kabuli_chr01	22131740	TT	CC	1946730892
SNP_P4_7661_22131743	NC_021160.1	Ca_kabuli_chr01	22131743	TT	CC	1946730894
SNP_P4_7662_22131861	NC_021160.1	Ca_kabuli_chr01	22131861	GG	AA	1946730895
SNP_P4_7663_22132010	NC_021160.1	Ca_kabuli_chr01	22132010	AA	CC	1946730897
SNP_P4_7665_22132172	NC_021160.1	Ca_kabuli_chr01	22132172	AA	GG	1946730899
SNP_P4_7666_22132229	NC_021160.1	Ca_kabuli_chr01	22132229	CC	TT	1946730901
SNP_P4_7667_22132495	NC_021160.1	Ca_kabuli_chr01	22132495	AA	GG	1946730903
SNP_P4_7668_22132506	NC_021160.1	Ca_kabuli_chr01	22132506	CC	TT	1946730905
SNP_P4_7669_22132542	NC_021160.1	Ca_kabuli_chr01	22132542	AA	GG	1946730907
SNP_P4_7670_22132550	NC_021160.1	Ca_kabuli_chr01	22132550	AA	TT	1946730909
SNP_P4_7671_22132578	NC_021160.1	Ca_kabuli_chr01	22132578	CC	TT	1946730911
SNP_P4_7672_22132899	NC_021160.1	Ca_kabuli_chr01	22132899	AA	GG	1946730913
SNP_P4_7673_22132980	NC_021160.1	Ca_kabuli_chr01	22132980	AA	GG	1946730915
SNP_P4_7674_22133069	NC_021160.1	Ca_kabuli_chr01	22133069	GG	AA	1946730917
SNP_P4_7675_22133117	NC_021160.1	Ca_kabuli_chr01	22133117	CC	TT	1946730919
SNP_P4_7676_22133125	NC_021160.1	Ca_kabuli_chr01	22133125	GG	AA	1946730921
SNP_P4_7677_22133130	NC_021160.1	Ca_kabuli_chr01	22133130	AA	TT	1946730923
SNP_P4_7678_22133140	NC_021160.1	Ca_kabuli_chr01	22133140	TT	AA	1946730925
SNP_P4_7679_22133171	NC_021160.1	Ca_kabuli_chr01	22133171	GG	AA	1946730927
SNP_P4_7680_22133214	NC_021160.1	Ca_kabuli_chr01	22133214	TT	CC	1946730929
SNP_P4_7681_22133318	NC_021160.1	Ca_kabuli_chr01	22133318	TT	GG	1946730931
SNP_P4_7683_22133529	NC_021160.1	Ca_kabuli_chr01	22133529	CC	TT	1946730933
SNP_P4_7684_22133544	NC_021160.1	Ca_kabuli_chr01	22133544	CC	TT	1946730935
SNP_P4_7685_22134728	NC_021160.1	Ca_kabuli_chr01	22134728	GG	AA	1946730937
SNP_P4_7686_22135108	NC_021160.1	Ca_kabuli_chr01	22135108	CC	TT	1946730939
SNP_P4_7687_22135203	NC_021160.1	Ca_kabuli_chr01	22135203	AA	TT	1946730941
SNP_P4_7688_22172555	NC_021160.1	Ca_kabuli_chr01	22172555	TT	CC	1946730943
SNP_P4_7689_22187502	NC_021160.1	Ca_kabuli_chr01	22187502	GG	AA	1946730945
SNP_P4_7690_22192198	NC_021160.1	Ca_kabuli_chr01	22192198	CC	TT	1946730947
SNP_P4_7691_22192215	NC_021160.1	Ca_kabuli_chr01	22192215	TT	GG	1946730949
SNP_P4_7693_22201071	NC_021160.1	Ca_kabuli_chr01	22201071	CC	AA	1946730951
SNP_P4_7694_22201293	NC_021160.1	Ca_kabuli_chr01	22201293	TT	AA	1946730953
SNP_P4_7695_22201309	NC_021160.1	Ca_kabuli_chr01	22201309	AA	TT	1946730955
SNP_P4_7696_22201327	NC_021160.1	Ca_kabuli_chr01	22201327	AA	CC	1946730957
SNP_P4_7698_22241534	NC_021160.1	Ca_kabuli_chr01	22241534	TT	CC	1946730959
SNP_P4_7699_22241602	NC_021160.1	Ca_kabuli_chr01	22241602	GG	AA	1946730961
SNP_P4_7700_22241632	NC_021160.1	Ca_kabuli_chr01	22241632	AA	GG	1946730963
SNP_P4_7701_22241634	NC_021160.1	Ca_kabuli_chr01	22241634	GG	AA	1946730965
SNP_P4_7702_22241848	NC_021160.1	Ca_kabuli_chr01	22241848	TT	AA	1946730967
SNP_P4_7703_22241925	NC_021160.1	Ca_kabuli_chr01	22241925	GG	TT	1946730969
SNP_P4_7704_22242083	NC_021160.1	Ca_kabuli_chr01	22242083	AA	CC	1946730971

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_7706_22244565	NC_021160.1	Ca_kabuli_chr01	22244565	CC	TT	1946730975
SNP_P4_7707_22244596	NC_021160.1	Ca_kabuli_chr01	22244596	TT	AA	1946730977
SNP_P4_7708_22244666	NC_021160.1	Ca_kabuli_chr01	22244666	TT	AA	1946730979
SNP_P4_7709_22244724	NC_021160.1	Ca_kabuli_chr01	22244724	AA	GG	1946730981
SNP_P4_7710_22244778	NC_021160.1	Ca_kabuli_chr01	22244778	CC	TT	1946730983
SNP_P4_7711_22244797	NC_021160.1	Ca_kabuli_chr01	22244797	AA	TT	1946730985
SNP_P4_7712_22244937	NC_021160.1	Ca_kabuli_chr01	22244937	GG	AA	1946730987
SNP_P4_7713_22244999	NC_021160.1	Ca_kabuli_chr01	22244999	TT	AA	1946730989
SNP_P4_7714_22245000	NC_021160.1	Ca_kabuli_chr01	22245000	TT	GG	1946730991
SNP_P4_7715_22245001	NC_021160.1	Ca_kabuli_chr01	22245001	TT	GG	1946730993
SNP_P4_7716_22245002	NC_021160.1	Ca_kabuli_chr01	22245002	GG	CC	1946730995
SNP_P4_7717_22245071	NC_021160.1	Ca_kabuli_chr01	22245071	GG	AA	1946730997
SNP_P4_7718_22245076	NC_021160.1	Ca_kabuli_chr01	22245076	CC	AA	1946730999
SNP_P4_7719_22245077	NC_021160.1	Ca_kabuli_chr01	22245077	CC	TT	1946731001
SNP_P4_7720_22245096	NC_021160.1	Ca_kabuli_chr01	22245096	CC	TT	1946731003
SNP_P4_7721_22245299	NC_021160.1	Ca_kabuli_chr01	22245299	AA	CC	1946731005
SNP_P4_7723_22266343	NC_021160.1	Ca_kabuli_chr01	22266343	AA	CC	1946731007
SNP_P4_7724_22270895	NC_021160.1	Ca_kabuli_chr01	22270895	GG	AA	1946731009
SNP_P4_7725_22271048	NC_021160.1	Ca_kabuli_chr01	22271048	AA	GG	1946731011
SNP_P4_7726_22285729	NC_021160.1	Ca_kabuli_chr01	22285729	TT	CC	1946731013
SNP_P4_7727_22285765	NC_021160.1	Ca_kabuli_chr01	22285765	TT	CC	1946731015
SNP_P4_7728_22285879	NC_021160.1	Ca_kabuli_chr01	22285879	TT	GG	1946731017
SNP_P4_7729_22286007	NC_021160.1	Ca_kabuli_chr01	22286007	AA	GG	1946731019
SNP_P4_7730_22286009	NC_021160.1	Ca_kabuli_chr01	22286009	AA	GG	1946731021
SNP_P4_7731_22286011	NC_021160.1	Ca_kabuli_chr01	22286011	GG	AA	1946731023
SNP_P4_7732_22293517	NC_021160.1	Ca_kabuli_chr01	22293517	AA	CC	1946731025
SNP_P4_7733_22293747	NC_021160.1	Ca_kabuli_chr01	22293747	TT	GG	1946731027
SNP_P4_7734_22297592	NC_021160.1	Ca_kabuli_chr01	22297592	GG	AA	1946731030
SNP_P4_7735_22306079	NC_021160.1	Ca_kabuli_chr01	22306079	TT	AA	1946731032
SNP_P4_7736_22311368	NC_021160.1	Ca_kabuli_chr01	22311368	CC	AA	1946731034
SNP_P4_7737_22311370	NC_021160.1	Ca_kabuli_chr01	22311370	AA	GG	1946731036
SNP_P4_7738_22326640	NC_021160.1	Ca_kabuli_chr01	22326640	TT	CC	1946731038
SNP_P4_7739_22326644	NC_021160.1	Ca_kabuli_chr01	22326644	AA	GG	1946731040
SNP_P4_7740_22329273	NC_021160.1	Ca_kabuli_chr01	22329273	TT	CC	1946731042
SNP_P4_7741_22329351	NC_021160.1	Ca_kabuli_chr01	22329351	TT	CC	1946731044
SNP_P4_7742_22329665	NC_021160.1	Ca_kabuli_chr01	22329665	CC	AA	1946731046
SNP_P4_7743_22329668	NC_021160.1	Ca_kabuli_chr01	22329668	TT	CC	1946731048
SNP_P4_7744_22329691	NC_021160.1	Ca_kabuli_chr01	22329691	CC	TT	1946731050
SNP_P4_7745_22329707	NC_021160.1	Ca_kabuli_chr01	22329707	TT	AA	1946731052
SNP_P4_7747_22329747	NC_021160.1	Ca_kabuli_chr01	22329747	TT	CC	1946731054
SNP_P4_7748_22349325	NC_021160.1	Ca_kabuli_chr01	22349325	AA	GG	1946731056

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_7752_22434884	NC_021160.1	Ca_kabuli_chr01	22434884	AA	GG	1946731060
SNP_P4_7753_22444156	NC_021160.1	Ca_kabuli_chr01	22444156	GG	CC	1946731062
SNP_P4_7754_22444159	NC_021160.1	Ca_kabuli_chr01	22444159	TT	CC	1946731064
SNP_P4_7755_22444415	NC_021160.1	Ca_kabuli_chr01	22444415	GG	AA	1946731066
SNP_P4_7756_22489580	NC_021160.1	Ca_kabuli_chr01	22489580	AA	GG	1946731068
SNP_P4_7757_22489604	NC_021160.1	Ca_kabuli_chr01	22489604	GG	AA	1946731070
SNP_P4_7758_22489616	NC_021160.1	Ca_kabuli_chr01	22489616	CC	TT	1946731072
SNP_P4_7759_22510938	NC_021160.1	Ca_kabuli_chr01	22510938	AA	TT	1946731074
SNP_P4_7760_22513603	NC_021160.1	Ca_kabuli_chr01	22513603	GG	TT	1946731076
SNP_P4_7761_22513623	NC_021160.1	Ca_kabuli_chr01	22513623	GG	AA	1946731078
SNP_P4_7762_22525569	NC_021160.1	Ca_kabuli_chr01	22525569	GG	AA	1946731080
SNP_P4_7764_22547089	NC_021160.1	Ca_kabuli_chr01	22547089	CC	TT	1946731082
SNP_P4_7765_22547165	NC_021160.1	Ca_kabuli_chr01	22547165	AA	GG	1946731084
SNP_P4_7766_22554027	NC_021160.1	Ca_kabuli_chr01	22554027	TT	CC	1946731086
SNP_P4_7767_22554028	NC_021160.1	Ca_kabuli_chr01	22554028	TT	CC	1946731088
SNP_P4_7768_22554053	NC_021160.1	Ca_kabuli_chr01	22554053	CC	TT	1946731090
SNP_P4_7769_22554093	NC_021160.1	Ca_kabuli_chr01	22554093	TT	GG	1946731092
SNP_P4_7770_22554103	NC_021160.1	Ca_kabuli_chr01	22554103	AA	GG	1946731094
SNP_P4_7771_22554122	NC_021160.1	Ca_kabuli_chr01	22554122	CC	TT	1946731096
SNP_P4_7772_22554135	NC_021160.1	Ca_kabuli_chr01	22554135	TT	CC	1946731098
SNP_P4_7773_22554161	NC_021160.1	Ca_kabuli_chr01	22554161	TT	AA	1946731100
SNP_P4_7774_22554467	NC_021160.1	Ca_kabuli_chr01	22554467	TT	CC	1946731102
SNP_P4_7775_22554476	NC_021160.1	Ca_kabuli_chr01	22554476	GG	AA	1946731104
SNP_P4_7776_22554513	NC_021160.1	Ca_kabuli_chr01	22554513	AA	GG	1946731106
SNP_P4_7777_22556457	NC_021160.1	Ca_kabuli_chr01	22556457	GG	TT	1946731108
SNP_P4_7778_22572485	NC_021160.1	Ca_kabuli_chr01	22572485	CC	GG	1946731111
SNP_P4_7779_22581367	NC_021160.1	Ca_kabuli_chr01	22581367	GG	TT	1946731113
SNP_P4_7781_22621566	NC_021160.1	Ca_kabuli_chr01	22621566	AA	TT	1946731115
SNP_P4_7782_22631202	NC_021160.1	Ca_kabuli_chr01	22631202	AA	TT	1946731117
SNP_P4_7784_22655787	NC_021160.1	Ca_kabuli_chr01	22655787	CC	TT	1946731119
SNP_P4_7785_22661495	NC_021160.1	Ca_kabuli_chr01	22661495	CC	AA	1946731121
SNP_P4_7786_22663991	NC_021160.1	Ca_kabuli_chr01	22663991	TT	CC	1946731123
SNP_P4_7787_22664001	NC_021160.1	Ca_kabuli_chr01	22664001	AA	CC	1946731125
SNP_P4_7788_22664003	NC_021160.1	Ca_kabuli_chr01	22664003	AA	CC	1946731127
SNP_P4_7789_22664049	NC_021160.1	Ca_kabuli_chr01	22664049	AA	GG	1946731129
SNP_P4_7790_22664245	NC_021160.1	Ca_kabuli_chr01	22664245	GG	AA	1946731131
SNP_P4_7791_22705348	NC_021160.1	Ca_kabuli_chr01	22705348	TT	AA	1946731133
SNP_P4_7792_22734242	NC_021160.1	Ca_kabuli_chr01	22734242	GG	AA	1946731136
SNP_P4_7794_22738733	NC_021160.1	Ca_kabuli_chr01	22738733	TT	AA	1946731138
SNP_P4_7795_22738734	NC_021160.1	Ca_kabuli_chr01	22738734	TT	GG	1946731140
SNP_P4_7796_22770046	NC_021160.1	Ca_kabuli_chr01	22770046	TT	CC	1946731142

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_7799_22770401	NC_021160.1	Ca_kabuli_chr01	22770401	TT	CC	1946731147
SNP_P4_7800_22782654	NC_021160.1	Ca_kabuli_chr01	22782654	AA	GG	1946731149
SNP_P4_7801_22798840	NC_021160.1	Ca_kabuli_chr01	22798840	TT	GG	1946731151
SNP_P4_7802_22807464	NC_021160.1	Ca_kabuli_chr01	22807464	CC	TT	1946731153
SNP_P4_7803_22825241	NC_021160.1	Ca_kabuli_chr01	22825241	AA	CC	1946731155
SNP_P4_7804_22853181	NC_021160.1	Ca_kabuli_chr01	22853181	TT	AA	1946731157
SNP_P4_7805_22855438	NC_021160.1	Ca_kabuli_chr01	22855438	AA	GG	1946731159
SNP_P4_7806_22863489	NC_021160.1	Ca_kabuli_chr01	22863489	CC	TT	1946731161
SNP_P4_7807_22866754	NC_021160.1	Ca_kabuli_chr01	22866754	TT	AA	1946731163
SNP_P4_7808_22883244	NC_021160.1	Ca_kabuli_chr01	22883244	TT	CC	1946731165
SNP_P4_7809_22884913	NC_021160.1	Ca_kabuli_chr01	22884913	TT	CC	1946731168
SNP_P4_7810_22885235	NC_021160.1	Ca_kabuli_chr01	22885235	GG	AA	1946731170
SNP_P4_7811_22885240	NC_021160.1	Ca_kabuli_chr01	22885240	TT	CC	1946731172
SNP_P4_7812_22885285	NC_021160.1	Ca_kabuli_chr01	22885285	CC	GG	1946731174
SNP_P4_7813_22885764	NC_021160.1	Ca_kabuli_chr01	22885764	TT	CC	1946731176
SNP_P4_7814_22885779	NC_021160.1	Ca_kabuli_chr01	22885779	TT	GG	1946731178
SNP_P4_7815_22885790	NC_021160.1	Ca_kabuli_chr01	22885790	AA	TT	1946731180
SNP_P4_7817_22885881	NC_021160.1	Ca_kabuli_chr01	22885881	TT	AA	1946731182
SNP_P4_7818_22885882	NC_021160.1	Ca_kabuli_chr01	22885882	AA	TT	1946731184
SNP_P4_7819_22886047	NC_021160.1	Ca_kabuli_chr01	22886047	CC	TT	1946731186
SNP_P4_7821_22886144	NC_021160.1	Ca_kabuli_chr01	22886144	AA	GG	1946731188
SNP_P4_7822_22886154	NC_021160.1	Ca_kabuli_chr01	22886154	AA	TT	1946731190
SNP_P4_7823_22886166	NC_021160.1	Ca_kabuli_chr01	22886166	AA	GG	1946731192
SNP_P4_7824_22886176	NC_021160.1	Ca_kabuli_chr01	22886176	AA	GG	1946731194
SNP_P4_7825_22896208	NC_021160.1	Ca_kabuli_chr01	22896208	CC	TT	1946731196
SNP_P4_7826_22896231	NC_021160.1	Ca_kabuli_chr01	22896231	AA	TT	1946731198
SNP_P4_7827_22896289	NC_021160.1	Ca_kabuli_chr01	22896289	CC	TT	1946731200
SNP_P4_7828_22896663	NC_021160.1	Ca_kabuli_chr01	22896663	CC	AA	1946731203
SNP_P4_7829_22896744	NC_021160.1	Ca_kabuli_chr01	22896744	CC	TT	1946731205
SNP_P4_7831_22896931	NC_021160.1	Ca_kabuli_chr01	22896931	GG	TT	1946731207
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SNP_P4_7833_22897036	NC_021160.1	Ca_kabuli_chr01	22897036	CC	GG	1946731211
SNP_P4_7834_22897071	NC_021160.1	Ca_kabuli_chr01	22897071	TT	CC	1946731213
SNP_P4_7835_22897129	NC_021160.1	Ca_kabuli_chr01	22897129	GG	AA	1946731215
SNP_P4_7836_22897143	NC_021160.1	Ca_kabuli_chr01	22897143	GG	CC	1946731217
SNP_P4_7837_22897164	NC_021160.1	Ca_kabuli_chr01	22897164	CC	AA	1946731220
SNP_P4_7838_22897196	NC_021160.1	Ca_kabuli_chr01	22897196	TT	CC	1946731222
SNP_P4_7839_22897222	NC_021160.1	Ca_kabuli_chr01	22897222	CC	GG	1946731224
SNP_P4_7840_22897393	NC_021160.1	Ca_kabuli_chr01	22897393	AA	TT	1946731226
SNP_P4_7841_22897719	NC_021160.1	Ca_kabuli_chr01	22897719	TT	GG	1946731228

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_7843_22898059	NC_021160.1	Ca_kabuli_chr01	22898059	AA	GG	1946731232
SNP_P4_7844_22898278	NC_021160.1	Ca_kabuli_chr01	22898278	GG	AA	1946731234
SNP_P4_7845_22943723	NC_021160.1	Ca_kabuli_chr01	22943723	CC	GG	1946731236
SNP_P4_7846_22943735	NC_021160.1	Ca_kabuli_chr01	22943735	TT	GG	1946731238
SNP_P4_7847_22944187	NC_021160.1	Ca_kabuli_chr01	22944187	TT	GG	1946731240
SNP_P4_7849_22944208	NC_021160.1	Ca_kabuli_chr01	22944208	AA	GG	1946731242
SNP_P4_7850_22944221	NC_021160.1	Ca_kabuli_chr01	22944221	GG	CC	1946731244
SNP_P4_7851_22944245	NC_021160.1	Ca_kabuli_chr01	22944245	TT	GG	1946731246
SNP_P4_7852_22971265	NC_021160.1	Ca_kabuli_chr01	22971265	TT	CC	1946731248
SNP_P4_7853_23005996	NC_021160.1	Ca_kabuli_chr01	23005996	GG	AA	1946731251
SNP_P4_7854_23006480	NC_021160.1	Ca_kabuli_chr01	23006480	GG	AA	1946731253
SNP_P4_7855_23006518	NC_021160.1	Ca_kabuli_chr01	23006518	CC	AA	1946731255
SNP_P4_7856_23006551	NC_021160.1	Ca_kabuli_chr01	23006551	CC	TT	1946731257
SNP_P4_7857_23006786	NC_021160.1	Ca_kabuli_chr01	23006786	AA	TT	1946731259
SNP_P4_7858_23006787	NC_021160.1	Ca_kabuli_chr01	23006787	AA	CC	1946731261
SNP_P4_7859_23006879	NC_021160.1	Ca_kabuli_chr01	23006879	GG	AA	1946731263
SNP_P4_7860_23011673	NC_021160.1	Ca_kabuli_chr01	23011673	AA	GG	1946731265
SNP_P4_7861_23038325	NC_021160.1	Ca_kabuli_chr01	23038325	TT	AA	1946731267
SNP_P4_7862_23040304	NC_021160.1	Ca_kabuli_chr01	23040304	TT	CC	1946731269
SNP_P4_7863_23040308	NC_021160.1	Ca_kabuli_chr01	23040308	TT	GG	1946731271
SNP_P4_7864_23057802	NC_021160.1	Ca_kabuli_chr01	23057802	GG	AA	1946731273
SNP_P4_7865_23067412	NC_021160.1	Ca_kabuli_chr01	23067412	AA	TT	1946731275
SNP_P4_7866_23068676	NC_021160.1	Ca_kabuli_chr01	23068676	AA	GG	1946731277
SNP_P4_7867_23068699	NC_021160.1	Ca_kabuli_chr01	23068699	AA	GG	1946731279
SNP_P4_7868_23071096	NC_021160.1	Ca_kabuli_chr01	23071096	AA	CC	1946731281
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SNP_P4_7870_23082955	NC_021160.1	Ca_kabuli_chr01	23082955	GG	AA	1946731286
SNP_P4_7871_23082985	NC_021160.1	Ca_kabuli_chr01	23082985	AA	GG	1946731288
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SNP_P4_7873_23087801	NC_021160.1	Ca_kabuli_chr01	23087801	TT	AA	1946731293
SNP_P4_7874_23087807	NC_021160.1	Ca_kabuli_chr01	23087807	TT	CC	1946731295
SNP_P4_7875_23087877	NC_021160.1	Ca_kabuli_chr01	23087877	GG	CC	1946731297
SNP_P4_7876_23087966	NC_021160.1	Ca_kabuli_chr01	23087966	TT	CC	1946731299
SNP_P4_7877_23087987	NC_021160.1	Ca_kabuli_chr01	23087987	TT	CC	1946731301
SNP_P4_7878_23127971	NC_021160.1	Ca_kabuli_chr01	23127971	GG	AA	1946731303
SNP_P4_7880_23153888	NC_021160.1	Ca_kabuli_chr01	23153888	AA	GG	1946731305
SNP_P4_7881_23167910	NC_021160.1	Ca_kabuli_chr01	23167910	AA	GG	1946731307
SNP_P4_7882_23183689	NC_021160.1	Ca_kabuli_chr01	23183689	TT	CC	1946731309
SNP_P4_7885_23201185	NC_021160.1	Ca_kabuli_chr01	23201185	GG	AA	1946731311
SNP_P4_7886_23218183	NC_021160.1	Ca_kabuli_chr01	23218183	TT	AA	1946731313
SNP_P4_7888_23238559	NC_021160.1	Ca_kabuli_chr01	23238559	CC	AA	1946731315

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_7892_23249005	NC_021160.1	Ca_kabuli_chr01	23249005	CC	AA	1946731321
SNP_P4_7893_23250013	NC_021160.1	Ca_kabuli_chr01	23250013	AA	GG	1946731323
SNP_P4_7895_23270236	NC_021160.1	Ca_kabuli_chr01	23270236	AA	GG	1946731324
SNP_P4_7896_23285385	NC_021160.1	Ca_kabuli_chr01	23285385	GG	AA	1946731326
SNP_P4_7897_23300203	NC_021160.1	Ca_kabuli_chr01	23300203	AA	TT	1946731328
SNP_P4_7899_23307530	NC_021160.1	Ca_kabuli_chr01	23307530	GG	TT	1946731330
SNP_P4_7901_23359542	NC_021160.1	Ca_kabuli_chr01	23359542	TT	AA	1946731332
SNP_P4_7902_23392230	NC_021160.1	Ca_kabuli_chr01	23392230	TT	GG	1946731334
SNP_P4_7903_23392383	NC_021160.1	Ca_kabuli_chr01	23392383	AA	GG	1946731336
SNP_P4_7904_23397348	NC_021160.1	Ca_kabuli_chr01	23397348	AA	GG	1946731338
SNP_P4_7905_23426516	NC_021160.1	Ca_kabuli_chr01	23426516	GG	AA	1946731340
SNP_P4_7906_23426520	NC_021160.1	Ca_kabuli_chr01	23426520	TT	GG	1946731342
SNP_P4_7907_23426547	NC_021160.1	Ca_kabuli_chr01	23426547	GG	TT	1946731344
SNP_P4_7908_23426575	NC_021160.1	Ca_kabuli_chr01	23426575	TT	AA	1946731346
SNP_P4_7909_23426605	NC_021160.1	Ca_kabuli_chr01	23426605	TT	CC	1946731348
SNP_P4_7911_23426725	NC_021160.1	Ca_kabuli_chr01	23426725	TT	CC	1946731350
SNP_P4_7912_23426775	NC_021160.1	Ca_kabuli_chr01	23426775	CC	AA	1946731352
SNP_P4_7913_23426817	NC_021160.1	Ca_kabuli_chr01	23426817	TT	AA	1946731354
SNP_P4_7914_23426885	NC_021160.1	Ca_kabuli_chr01	23426885	GG	AA	1946731356
SNP_P4_7915_23426985	NC_021160.1	Ca_kabuli_chr01	23426985	AA	TT	1946731358
SNP_P4_7916_23427002	NC_021160.1	Ca_kabuli_chr01	23427002	CC	TT	1946731360
SNP_P4_7917_23427008	NC_021160.1	Ca_kabuli_chr01	23427008	AA	GG	1946731362
SNP_P4_7918_23427924	NC_021160.1	Ca_kabuli_chr01	23427924	CC	TT	1946731364
SNP_P4_7919_23433544	NC_021160.1	Ca_kabuli_chr01	23433544	AA	TT	1946731366
SNP_P4_7920_23433553	NC_021160.1	Ca_kabuli_chr01	23433553	GG	AA	1946731368
SNP_P4_7921_23433901	NC_021160.1	Ca_kabuli_chr01	23433901	GG	AA	1946731370
SNP_P4_7922_23445553	NC_021160.1	Ca_kabuli_chr01	23445553	AA	GG	1946731372
SNP_P4_7924_23480598	NC_021160.1	Ca_kabuli_chr01	23480598	GG	AA	1946731374
SNP_P4_7926_23496219	NC_021160.1	Ca_kabuli_chr01	23496219	CC	GG	1946731376
SNP_P4_7928_23523179	NC_021160.1	Ca_kabuli_chr01	23523179	AA	GG	1946731378
SNP_P4_7929_23526129	NC_021160.1	Ca_kabuli_chr01	23526129	AA	GG	1946731380
SNP_P4_7930_23535461	NC_021160.1	Ca_kabuli_chr01	23535461	TT	CC	1946731382
SNP_P4_7931_23540078	NC_021160.1	Ca_kabuli_chr01	23540078	TT	CC	1946731384
SNP_P4_7932_23540107	NC_021160.1	Ca_kabuli_chr01	23540107	TT	GG	1946731386
SNP_P4_7933_23540370	NC_021160.1	Ca_kabuli_chr01	23540370	TT	GG	1946731388
SNP_P4_7934_23541918	NC_021160.1	Ca_kabuli_chr01	23541918	AA	GG	1946731390
SNP_P4_7935_23541920	NC_021160.1	Ca_kabuli_chr01	23541920	AA	CC	1946731392
SNP_P4_7936_23551984	NC_021160.1	Ca_kabuli_chr01	23551984	TT	CC	1946731394
SNP_P4_7940_23577718	NC_021160.1	Ca_kabuli_chr01	23577718	TT	CC	1946731396
SNP_P4_7941_23580318	NC_021160.1	Ca_kabuli_chr01	23580318	GG	AA	1946731398

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_7943_23580732	NC_021160.1	Ca_kabuli_chr01	23580732	GG	AA	1946731402
SNP_P4_7945_23616042	NC_021160.1	Ca_kabuli_chr01	23616042	GG	TT	1946731404
SNP_P4_7947_23627464	NC_021160.1	Ca_kabuli_chr01	23627464	TT	CC	1946731406
SNP_P4_7949_23641499	NC_021160.1	Ca_kabuli_chr01	23641499	AA	CC	1946731408
SNP_P4_7950_23643793	NC_021160.1	Ca_kabuli_chr01	23643793	AA	TT	1946731411
SNP_P4_7951_23661808	NC_021160.1	Ca_kabuli_chr01	23661808	TT	CC	1946731413
SNP_P4_7952_23669270	NC_021160.1	Ca_kabuli_chr01	23669270	AA	CC	1946731415
SNP_P4_7953_23669290	NC_021160.1	Ca_kabuli_chr01	23669290	AA	GG	1946731417
SNP_P4_7954_23669354	NC_021160.1	Ca_kabuli_chr01	23669354	GG	AA	1946731419
SNP_P4_7955_23669359	NC_021160.1	Ca_kabuli_chr01	23669359	CC	AA	1946731421
SNP_P4_7956_23669674	NC_021160.1	Ca_kabuli_chr01	23669674	GG	TT	1946731423
SNP_P4_7957_23669950	NC_021160.1	Ca_kabuli_chr01	23669950	AA	CC	1946731425
SNP_P4_7958_23689639	NC_021160.1	Ca_kabuli_chr01	23689639	CC	GG	1946731427
SNP_P4_7959_23697682	NC_021160.1	Ca_kabuli_chr01	23697682	CC	TT	1946731429
SNP_P4_7960_23697729	NC_021160.1	Ca_kabuli_chr01	23697729	TT	AA	1946731431
SNP_P4_7961_23698007	NC_021160.1	Ca_kabuli_chr01	23698007	AA	GG	1946731433
SNP_P4_7962_23699320	NC_021160.1	Ca_kabuli_chr01	23699320	TT	AA	1946731435
SNP_P4_7963_23699355	NC_021160.1	Ca_kabuli_chr01	23699355	GG	AA	1946731437
SNP_P4_7964_23707079	NC_021160.1	Ca_kabuli_chr01	23707079	TT	CC	1946731439
SNP_P4_7965_23720917	NC_021160.1	Ca_kabuli_chr01	23720917	AA	CC	1946731441
SNP_P4_7966_23721196	NC_021160.1	Ca_kabuli_chr01	23721196	TT	CC	1946731443
SNP_P4_7967_23721197	NC_021160.1	Ca_kabuli_chr01	23721197	TT	AA	1946731445
SNP_P4_7968_23722738	NC_021160.1	Ca_kabuli_chr01	23722738	GG	TT	1946731447
SNP_P4_7969_23722746	NC_021160.1	Ca_kabuli_chr01	23722746	GG	CC	1946731449
SNP_P4_7970_23748141	NC_021160.1	Ca_kabuli_chr01	23748141	AA	GG	1946731451
SNP_P4_7971_23751831	NC_021160.1	Ca_kabuli_chr01	23751831	GG	AA	1946731453
SNP_P4_7972_23755516	NC_021160.1	Ca_kabuli_chr01	23755516	CC	TT	1946731455
SNP_P4_7973_23755530	NC_021160.1	Ca_kabuli_chr01	23755530	CC	TT	1946731457
SNP_P4_7974_23755532	NC_021160.1	Ca_kabuli_chr01	23755532	CC	TT	1946731460
SNP_P4_7975_23756155	NC_021160.1	Ca_kabuli_chr01	23756155	GG	AA	1946731462
SNP_P4_7976_23782439	NC_021160.1	Ca_kabuli_chr01	23782439	TT	CC	1946731464
SNP_P4_7977_23782451	NC_021160.1	Ca_kabuli_chr01	23782451	TT	CC	1946731466
SNP_P4_7978_23782511	NC_021160.1	Ca_kabuli_chr01	23782511	AA	GG	1946731468
SNP_P4_7979_23782512	NC_021160.1	Ca_kabuli_chr01	23782512	GG	AA	1946731470
SNP_P4_7980_23782533	NC_021160.1	Ca_kabuli_chr01	23782533	GG	AA	1946731472
SNP_P4_7981_23782551	NC_021160.1	Ca_kabuli_chr01	23782551	GG	AA	1946731474
SNP_P4_7982_23782558	NC_021160.1	Ca_kabuli_chr01	23782558	CC	GG	1946731476
SNP_P4_7983_23782559	NC_021160.1	Ca_kabuli_chr01	23782559	CC	AA	1946731478
SNP_P4_7984_23782887	NC_021160.1	Ca_kabuli_chr01	23782887	GG	CC	1946731480
SNP_P4_7985_23782896	NC_021160.1	Ca_kabuli_chr01	23782896	AA	GG	1946731482
SNP_P4_7986_23782925	NC_021160.1	Ca_kabuli_chr01	23782925	AA	TT	1946731484

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_7988_23783693	NC_021160.1	Ca_kabuli_chr01	23783693	TT	CC	1946731488
SNP_P4_7990_23784996	NC_021160.1	Ca_kabuli_chr01	23784996	GG	AA	1946731490
SNP_P4_7991_23785030	NC_021160.1	Ca_kabuli_chr01	23785030	GG	CC	1946731492
SNP_P4_7992_23823218	NC_021160.1	Ca_kabuli_chr01	23823218	AA	GG	1946731494
SNP_P4_7993_23824100	NC_021160.1	Ca_kabuli_chr01	23824100	TT	GG	1946731496
SNP_P4_7994_23838600	NC_021160.1	Ca_kabuli_chr01	23838600	TT	CC	1946731498
SNP_P4_7995_23838664	NC_021160.1	Ca_kabuli_chr01	23838664	GG	TT	1946731500
SNP_P4_7996_23838714	NC_021160.1	Ca_kabuli_chr01	23838714	GG	TT	1946731502
SNP_P4_7997_23838758	NC_021160.1	Ca_kabuli_chr01	23838758	TT	GG	1946731504
SNP_P4_7999_23877820	NC_021160.1	Ca_kabuli_chr01	23877820	TT	AA	1946731506
SNP_P4_8000_23884163	NC_021160.1	Ca_kabuli_chr01	23884163	TT	CC	1946731508
SNP_P4_8001_23884165	NC_021160.1	Ca_kabuli_chr01	23884165	TT	GG	1946731510
SNP_P4_8002_23887129	NC_021160.1	Ca_kabuli_chr01	23887129	TT	CC	1946731512
SNP_P4_8004_23892501	NC_021160.1	Ca_kabuli_chr01	23892501	TT	CC	1946731514
SNP_P4_8005_23897553	NC_021160.1	Ca_kabuli_chr01	23897553	AA	TT	1946731516
SNP_P4_8006_23919533	NC_021160.1	Ca_kabuli_chr01	23919533	AA	GG	1946731518
SNP_P4_8007_23921504	NC_021160.1	Ca_kabuli_chr01	23921504	CC	TT	1946731520
SNP_P4_8008_23962283	NC_021160.1	Ca_kabuli_chr01	23962283	AA	GG	1946731522
SNP_P4_8009_23966795	NC_021160.1	Ca_kabuli_chr01	23966795	AA	GG	1946731524
SNP_P4_8011_23966848	NC_021160.1	Ca_kabuli_chr01	23966848	AA	GG	1946731526
SNP_P4_8012_23967267	NC_021160.1	Ca_kabuli_chr01	23967267	CC	TT	1946731528
SNP_P4_8013_23978919	NC_021160.1	Ca_kabuli_chr01	23978919	CC	TT	1946731530
SNP_P4_8014_23978928	NC_021160.1	Ca_kabuli_chr01	23978928	AA	GG	1946731532
SNP_P4_8015_23998474	NC_021160.1	Ca_kabuli_chr01	23998474	GG	CC	1946731534
SNP_P4_8016_24005173	NC_021160.1	Ca_kabuli_chr01	24005173	TT	CC	1946731536
SNP_P4_8017_24012369	NC_021160.1	Ca_kabuli_chr01	24012369	TT	GG	1946731538
SNP_P4_8018_24027154	NC_021160.1	Ca_kabuli_chr01	24027154	CC	TT	1946731540
SNP_P4_8019_24030435	NC_021160.1	Ca_kabuli_chr01	24030435	GG	CC	1946731542
SNP_P4_8020_24030467	NC_021160.1	Ca_kabuli_chr01	24030467	CC	TT	1946731544
SNP_P4_8022_24030577	NC_021160.1	Ca_kabuli_chr01	24030577	CC	TT	1946731545
SNP_P4_8024_24031058	NC_021160.1	Ca_kabuli_chr01	24031058	CC	TT	1946731547
SNP_P4_8025_24031098	NC_021160.1	Ca_kabuli_chr01	24031098	AA	GG	1946731549
SNP_P4_8026_24031141	NC_021160.1	Ca_kabuli_chr01	24031141	CC	TT	1946731551
SNP_P4_8027_24031144	NC_021160.1	Ca_kabuli_chr01	24031144	TT	CC	1946731553
SNP_P4_8028_24031231	NC_021160.1	Ca_kabuli_chr01	24031231	AA	GG	1946731555
SNP_P4_8029_24031378	NC_021160.1	Ca_kabuli_chr01	24031378	AA	GG	1946731557
SNP_P4_8030_24035037	NC_021160.1	Ca_kabuli_chr01	24035037	GG	AA	1946731559
SNP_P4_8031_24035057	NC_021160.1	Ca_kabuli_chr01	24035057	AA	TT	1946731561
SNP_P4_8032_24035417	NC_021160.1	Ca_kabuli_chr01	24035417	AA	GG	1946731563
SNP_P4_8033_24035470	NC_021160.1	Ca_kabuli_chr01	24035470	TT	CC	1946731565
SNP_P4_8034_24035478	NC_021160.1	Ca_kabuli_chr01	24035478	AA	GG	1946731566

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_8036_24035488	NC_021160.1	Ca_kabuli_chr01	24035488	AA	GG	1946731570
SNP_P4_8037_24035503	NC_021160.1	Ca_kabuli_chr01	24035503	CC	GG	1946731572
SNP_P4_8038_24035521	NC_021160.1	Ca_kabuli_chr01	24035521	AA	CC	1946731574
SNP_P4_8039_24035673	NC_021160.1	Ca_kabuli_chr01	24035673	TT	CC	1946731576
SNP_P4_8040_24035676	NC_021160.1	Ca_kabuli_chr01	24035676	TT	CC	1946731578
SNP_P4_8041_24035767	NC_021160.1	Ca_kabuli_chr01	24035767	TT	CC	1946731580
SNP_P4_8042_24035781	NC_021160.1	Ca_kabuli_chr01	24035781	TT	GG	1946731582
SNP_P4_8043_24036171	NC_021160.1	Ca_kabuli_chr01	24036171	TT	AA	1946731584
SNP_P4_8044_24040486	NC_021160.1	Ca_kabuli_chr01	24040486	GG	CC	1946731586
SNP_P4_8045_24044391	NC_021160.1	Ca_kabuli_chr01	24044391	CC	TT	1946731588
SNP_P4_8049_24143322	NC_021160.1	Ca_kabuli_chr01	24143322	GG	AA	1946731590
SNP_P4_8050_24145634	NC_021160.1	Ca_kabuli_chr01	24145634	TT	CC	1946731592
SNP_P4_8051_24172058	NC_021160.1	Ca_kabuli_chr01	24172058	AA	GG	1946731594
SNP_P4_8052_24179555	NC_021160.1	Ca_kabuli_chr01	24179555	AA	GG	1946731596
SNP_P4_8053_24194344	NC_021160.1	Ca_kabuli_chr01	24194344	TT	CC	1946731598
SNP_P4_8054_24194346	NC_021160.1	Ca_kabuli_chr01	24194346	GG	AA	1946731600
SNP_P4_8055_24194457	NC_021160.1	Ca_kabuli_chr01	24194457	AA	TT	1946731602
SNP_P4_8056_24194687	NC_021160.1	Ca_kabuli_chr01	24194687	CC	TT	1946731604
SNP_P4_8057_24194706	NC_021160.1	Ca_kabuli_chr01	24194706	AA	CC	1946731606
SNP_P4_8058_24194751	NC_021160.1	Ca_kabuli_chr01	24194751	TT	CC	1946731609
SNP_P4_8059_24194761	NC_021160.1	Ca_kabuli_chr01	24194761	AA	GG	1946731611
SNP_P4_8060_24198487	NC_021160.1	Ca_kabuli_chr01	24198487	GG	AA	1946731613
SNP_P4_8062_24228569	NC_021160.1	Ca_kabuli_chr01	24228569	GG	TT	1946731615
SNP_P4_8063_24252100	NC_021160.1	Ca_kabuli_chr01	24252100	CC	TT	1946731617
SNP_P4_8064_24255810	NC_021160.1	Ca_kabuli_chr01	24255810	CC	TT	1946731619
SNP_P4_8065_24255992	NC_021160.1	Ca_kabuli_chr01	24255992	GG	AA	1946731621
SNP_P4_8066_24255994	NC_021160.1	Ca_kabuli_chr01	24255994	AA	GG	1946731623
SNP_P4_8067_24256029	NC_021160.1	Ca_kabuli_chr01	24256029	AA	TT	1946731625
SNP_P4_8068_24256034	NC_021160.1	Ca_kabuli_chr01	24256034	TT	CC	1946731627
SNP_P4_8069_24256102	NC_021160.1	Ca_kabuli_chr01	24256102	AA	GG	1946731629
SNP_P4_8070_24268003	NC_021160.1	Ca_kabuli_chr01	24268003	AA	GG	1946731631
SNP_P4_8072_24292723	NC_021160.1	Ca_kabuli_chr01	24292723	TT	CC	1946731633
SNP_P4_8073_24301183	NC_021160.1	Ca_kabuli_chr01	24301183	CC	AA	1946731635
SNP_P4_8075_24317013	NC_021160.1	Ca_kabuli_chr01	24317013	AA	GG	1946731637
SNP_P4_8076_24331376	NC_021160.1	Ca_kabuli_chr01	24331376	AA	GG	1946731639
SNP_P4_8077_24331533	NC_021160.1	Ca_kabuli_chr01	24331533	AA	GG	1946731641
SNP_P4_8078_24331583	NC_021160.1	Ca_kabuli_chr01	24331583	AA	GG	1946731643
SNP_P4_8079_24331593	NC_021160.1	Ca_kabuli_chr01	24331593	GG	AA	1946731645
SNP_P4_8080_24331600	NC_021160.1	Ca_kabuli_chr01	24331600	AA	GG	1946731647
SNP_P4_8081_24369517	NC_021160.1	Ca_kabuli_chr01	24369517	AA	GG	1946731649
SNP_P4_8082_24377334	NC_021160.1	Ca_kabuli_chr01	24377334	TT	CC	1946731651

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_8084_24474539	NC_021160.1	Ca_kabuli_chr01	24474539	TT	GG	1946731655
SNP_P4_8086_24501773	NC_021160.1	Ca_kabuli_chr01	24501773	AA	CC	1946731657
SNP_P4_8087_24502055	NC_021160.1	Ca_kabuli_chr01	24502055	AA	CC	1946731659
SNP_P4_8088_24502323	NC_021160.1	Ca_kabuli_chr01	24502323	TT	CC	1946731661
SNP_P4_8089_24508584	NC_021160.1	Ca_kabuli_chr01	24508584	AA	GG	1946731663
SNP_P4_8090_24522080	NC_021160.1	Ca_kabuli_chr01	24522080	CC	TT	1946731665
SNP_P4_8091_24543871	NC_021160.1	Ca_kabuli_chr01	24543871	TT	GG	1946731667
SNP_P4_8092_24592227	NC_021160.1	Ca_kabuli_chr01	24592227	AA	GG	1946731669
SNP_P4_8093_24592252	NC_021160.1	Ca_kabuli_chr01	24592252	AA	TT	1946731671
SNP_P4_8094_24592270	NC_021160.1	Ca_kabuli_chr01	24592270	GG	AA	1946731673
SNP_P4_8095_24597511	NC_021160.1	Ca_kabuli_chr01	24597511	TT	CC	1946731675
SNP_P4_8096_24597906	NC_021160.1	Ca_kabuli_chr01	24597906	TT	AA	1946731677
SNP_P4_8097_24598952	NC_021160.1	Ca_kabuli_chr01	24598952	TT	CC	1946731679
SNP_P4_8098_24601791	NC_021160.1	Ca_kabuli_chr01	24601791	AA	TT	1946731681
SNP_P4_8099_24603254	NC_021160.1	Ca_kabuli_chr01	24603254	TT	CC	1946731683
SNP_P4_8100_24603276	NC_021160.1	Ca_kabuli_chr01	24603276	TT	CC	1946731685
SNP_P4_8101_24603693	NC_021160.1	Ca_kabuli_chr01	24603693	TT	CC	1946731687
SNP_P4_8102_24606854	NC_021160.1	Ca_kabuli_chr01	24606854	GG	AA	1946731689
SNP_P4_8103_24607200	NC_021160.1	Ca_kabuli_chr01	24607200	AA	CC	1946731691
SNP_P4_8104_24607256	NC_021160.1	Ca_kabuli_chr01	24607256	CC	TT	1946731692
SNP_P4_8105_24607540	NC_021160.1	Ca_kabuli_chr01	24607540	TT	CC	1946731694
SNP_P4_8106_24607544	NC_021160.1	Ca_kabuli_chr01	24607544	AA	TT	1946731696
SNP_P4_8107_24607546	NC_021160.1	Ca_kabuli_chr01	24607546	AA	GG	1946731698
SNP_P4_8108_24607558	NC_021160.1	Ca_kabuli_chr01	24607558	TT	GG	1946731700
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SNP_P4_8110_24607596	NC_021160.1	Ca_kabuli_chr01	24607596	AA	GG	1946731704
SNP_P4_8111_24607613	NC_021160.1	Ca_kabuli_chr01	24607613	AA	TT	1946731706
SNP_P4_8112_24607617	NC_021160.1	Ca_kabuli_chr01	24607617	GG	AA	1946731708
SNP_P4_8113_24610727	NC_021160.1	Ca_kabuli_chr01	24610727	GG	AA	1946731710
SNP_P4_8114_24610731	NC_021160.1	Ca_kabuli_chr01	24610731	CC	TT	1946731712
SNP_P4_8115_24610753	NC_021160.1	Ca_kabuli_chr01	24610753	CC	TT	1946731714
SNP_P4_8116_24610754	NC_021160.1	Ca_kabuli_chr01	24610754	GG	CC	1946731716
SNP_P4_8119_24626603	NC_021160.1	Ca_kabuli_chr01	24626603	TT	AA	1946731718
SNP_P4_8120_24626891	NC_021160.1	Ca_kabuli_chr01	24626891	AA	TT	1946731720
SNP_P4_8121_24626977	NC_021160.1	Ca_kabuli_chr01	24626977	GG	CC	1946731722
SNP_P4_8123_24636477	NC_021160.1	Ca_kabuli_chr01	24636477	AA	TT	1946731724
SNP_P4_8124_24636480	NC_021160.1	Ca_kabuli_chr01	24636480	TT	AA	1946731726
SNP_P4_8126_24636505	NC_021160.1	Ca_kabuli_chr01	24636505	TT	GG	1946731728
SNP_P4_8127_24636508	NC_021160.1	Ca_kabuli_chr01	24636508	CC	TT	1946731730
SNP_P4_8128_24640490	NC_021160.1	Ca_kabuli_chr01	24640490	CC	TT	1946731732
SNP_P4_8130_24651925	NC_021160.1	Ca_kabuli_chr01	24651925	TT	CC	1946731734

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_8132_24723857	NC_021160.1	Ca_kabuli_chr01	24723857	TT	CC	1946731738
SNP_P4_8133_24741576	NC_021160.1	Ca_kabuli_chr01	24741576	AA	GG	1946731740
SNP_P4_8135_24771237	NC_021160.1	Ca_kabuli_chr01	24771237	CC	TT	1946731742
SNP_P4_8136_24771611	NC_021160.1	Ca_kabuli_chr01	24771611	TT	GG	1946731744
SNP_P4_8137_24771612	NC_021160.1	Ca_kabuli_chr01	24771612	TT	GG	1946731746
SNP_P4_8138_24778464	NC_021160.1	Ca_kabuli_chr01	24778464	AA	CC	1946731749
SNP_P4_8139_24787529	NC_021160.1	Ca_kabuli_chr01	24787529	CC	TT	1946731751
SNP_P4_8142_24819535	NC_021160.1	Ca_kabuli_chr01	24819535	TT	CC	1946731753
SNP_P4_8143_24847267	NC_021160.1	Ca_kabuli_chr01	24847267	AA	GG	1946731755
SNP_P4_8144_24873694	NC_021160.1	Ca_kabuli_chr01	24873694	AA	GG	1946731757
SNP_P4_8145_24912699	NC_021160.1	Ca_kabuli_chr01	24912699	TT	CC	1946731759
SNP_P4_8146_24913525	NC_021160.1	Ca_kabuli_chr01	24913525	AA	GG	1946731761
SNP_P4_8147_24916302	NC_021160.1	Ca_kabuli_chr01	24916302	AA	CC	1946731763
SNP_P4_8148_24916324	NC_021160.1	Ca_kabuli_chr01	24916324	TT	CC	1946731765
SNP_P4_8149_24917106	NC_021160.1	Ca_kabuli_chr01	24917106	AA	GG	1946731767
SNP_P4_8150_24918659	NC_021160.1	Ca_kabuli_chr01	24918659	TT	CC	1946731769
SNP_P4_8152_24966826	NC_021160.1	Ca_kabuli_chr01	24966826	AA	CC	1946731771
SNP_P4_8153_24967197	NC_021160.1	Ca_kabuli_chr01	24967197	AA	TT	1946731773
SNP_P4_8154_25014375	NC_021160.1	Ca_kabuli_chr01	25014375	TT	CC	1946731775
SNP_P4_8155_25024887	NC_021160.1	Ca_kabuli_chr01	25024887	GG	AA	1946731777
SNP_P4_8156_25037706	NC_021160.1	Ca_kabuli_chr01	25037706	AA	GG	1946731779
SNP_P4_8157_25046613	NC_021160.1	Ca_kabuli_chr01	25046613	CC	TT	1946731781
SNP_P4_8158_25057980	NC_021160.1	Ca_kabuli_chr01	25057980	GG	CC	1946731783
SNP_P4_8159_25058069	NC_021160.1	Ca_kabuli_chr01	25058069	GG	AA	1946731785
SNP_P4_8160_25058117	NC_021160.1	Ca_kabuli_chr01	25058117	GG	AA	1946731787
SNP_P4_8161_25058248	NC_021160.1	Ca_kabuli_chr01	25058248	AA	GG	1946731790
SNP_P4_8162_25058249	NC_021160.1	Ca_kabuli_chr01	25058249	AA	GG	1946731792
SNP_P4_8163_25058362	NC_021160.1	Ca_kabuli_chr01	25058362	AA	CC	1946731794
SNP_P4_8164_25058373	NC_021160.1	Ca_kabuli_chr01	25058373	TT	AA	1946731796
SNP_P4_8165_25059092	NC_021160.1	Ca_kabuli_chr01	25059092	GG	CC	1946731798
SNP_P4_8166_25059111	NC_021160.1	Ca_kabuli_chr01	25059111	AA	TT	1946731800
SNP_P4_8168_25079429	NC_021160.1	Ca_kabuli_chr01	25079429	AA	GG	1946731802
SNP_P4_8169_25098559	NC_021160.1	Ca_kabuli_chr01	25098559	AA	GG	1946731804
SNP_P4_8170_25098593	NC_021160.1	Ca_kabuli_chr01	25098593	TT	AA	1946731806
SNP_P4_8171_25098606	NC_021160.1	Ca_kabuli_chr01	25098606	CC	AA	1946731808
SNP_P4_8173_25130212	NC_021160.1	Ca_kabuli_chr01	25130212	CC	AA	1946731810
SNP_P4_8174_25130214	NC_021160.1	Ca_kabuli_chr01	25130214	GG	AA	1946731812
SNP_P4_8177_25185624	NC_021160.1	Ca_kabuli_chr01	25185624	AA	GG	1946731814
SNP_P4_8178_25185627	NC_021160.1	Ca_kabuli_chr01	25185627	CC	TT	1946731816
SNP_P4_8179_25209722	NC_021160.1	Ca_kabuli_chr01	25209722	AA	TT	1946731818
SNP_P4_8180_25209980	NC_021160.1	Ca_kabuli_chr01	25209980	GG	TT	1946731820

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_8182_25234184	NC_021160.1	Ca_kabuli_chr01	25234184	TT	CC	1946731824
SNP_P4_8183_25234279	NC_021160.1	Ca_kabuli_chr01	25234279	TT	CC	1946731826
SNP_P4_8184_25234352	NC_021160.1	Ca_kabuli_chr01	25234352	GG	AA	1946731828
SNP_P4_8185_25248751	NC_021160.1	Ca_kabuli_chr01	25248751	CC	TT	1946731830
SNP_P4_8186_25262325	NC_021160.1	Ca_kabuli_chr01	25262325	CC	TT	1946731832
SNP_P4_8187_25272285	NC_021160.1	Ca_kabuli_chr01	25272285	GG	AA	1946731834
SNP_P4_8188_25296114	NC_021160.1	Ca_kabuli_chr01	25296114	TT	CC	1946731836
SNP_P4_8189_25296171	NC_021160.1	Ca_kabuli_chr01	25296171	TT	AA	1946731838
SNP_P4_8190_25296409	NC_021160.1	Ca_kabuli_chr01	25296409	CC	TT	1946731840
SNP_P4_8192_25296532	NC_021160.1	Ca_kabuli_chr01	25296532	CC	TT	1946731842
SNP_P4_8193_25296685	NC_021160.1	Ca_kabuli_chr01	25296685	AA	GG	1946731844
SNP_P4_8195_25353631	NC_021160.1	Ca_kabuli_chr01	25353631	AA	TT	1946731846
SNP_P4_8197_25358964	NC_021160.1	Ca_kabuli_chr01	25358964	AA	TT	1946731848
SNP_P4_8198_25373788	NC_021160.1	Ca_kabuli_chr01	25373788	GG	TT	1946731850
SNP_P4_8199_25373824	NC_021160.1	Ca_kabuli_chr01	25373824	AA	GG	1946731852
SNP_P4_8200_25373876	NC_021160.1	Ca_kabuli_chr01	25373876	CC	AA	1946731854
SNP_P4_8201_25374298	NC_021160.1	Ca_kabuli_chr01	25374298	TT	AA	1946731857
SNP_P4_8202_25374337	NC_021160.1	Ca_kabuli_chr01	25374337	CC	TT	1946731859
SNP_P4_8203_25380923	NC_021160.1	Ca_kabuli_chr01	25380923	CC	AA	1946731860
SNP_P4_8204_25381737	NC_021160.1	Ca_kabuli_chr01	25381737	CC	TT	1946731862
SNP_P4_8205_25381860	NC_021160.1	Ca_kabuli_chr01	25381860	TT	CC	1946731864
SNP_P4_8207_25382445	NC_021160.1	Ca_kabuli_chr01	25382445	GG	TT	1946731866
SNP_P4_8208_25382447	NC_021160.1	Ca_kabuli_chr01	25382447	TT	CC	1946731868
SNP_P4_8209_25382597	NC_021160.1	Ca_kabuli_chr01	25382597	GG	AA	1946731870
SNP_P4_8210_25382604	NC_021160.1	Ca_kabuli_chr01	25382604	TT	AA	1946731872
SNP_P4_8211_25387739	NC_021160.1	Ca_kabuli_chr01	25387739	AA	CC	1946731874
SNP_P4_8212_25387743	NC_021160.1	Ca_kabuli_chr01	25387743	GG	CC	1946731876
SNP_P4_8213_25402587	NC_021160.1	Ca_kabuli_chr01	25402587	TT	CC	1946731878
SNP_P4_8214_25410971	NC_021160.1	Ca_kabuli_chr01	25410971	GG	AA	1946731880
SNP_P4_8215_25413547	NC_021160.1	Ca_kabuli_chr01	25413547	GG	TT	1946731882
SNP_P4_8218_25450220	NC_021160.1	Ca_kabuli_chr01	25450220	AA	TT	1946731884
SNP_P4_8219_25452169	NC_021160.1	Ca_kabuli_chr01	25452169	CC	AA	1946731886
SNP_P4_8220_25460258	NC_021160.1	Ca_kabuli_chr01	25460258	GG	AA	1946731888
SNP_P4_8221_25469463	NC_021160.1	Ca_kabuli_chr01	25469463	AA	GG	1946731890
SNP_P4_8223_25505430	NC_021160.1	Ca_kabuli_chr01	25505430	TT	AA	1946731892
SNP_P4_8224_25505434	NC_021160.1	Ca_kabuli_chr01	25505434	AA	GG	1946731894
SNP_P4_8225_25505774	NC_021160.1	Ca_kabuli_chr01	25505774	TT	CC	1946731896
SNP_P4_8226_25505965	NC_021160.1	Ca_kabuli_chr01	25505965	GG	TT	1946731898
SNP_P4_8227_25507417	NC_021160.1	Ca_kabuli_chr01	25507417	TT	CC	1946731900
SNP_P4_8228_25507696	NC_021160.1	Ca_kabuli_chr01	25507696	TT	CC	1946731902
SNP_P4_8231_25510060	NC_021160.1	Ca_kabuli_chr01	25510060	AA	GG	1946731904

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_8233_25511419	NC_021160.1	Ca_kabuli_chr01	25511419	CC	TT	1946731907
SNP_P4_8234_25511478	NC_021160.1	Ca_kabuli_chr01	25511478	TT	CC	1946731909
SNP_P4_8235_25528126	NC_021160.1	Ca_kabuli_chr01	25528126	TT	CC	1946731911
SNP_P4_8237_25547451	NC_021160.1	Ca_kabuli_chr01	25547451	AA	GG	1946731913
SNP_P4_8238_25549185	NC_021160.1	Ca_kabuli_chr01	25549185	TT	GG	1946731915
SNP_P4_8239_25549189	NC_021160.1	Ca_kabuli_chr01	25549189	TT	AA	1946731917
SNP_P4_8240_25549471	NC_021160.1	Ca_kabuli_chr01	25549471	TT	CC	1946731919
SNP_P4_8241_25571945	NC_021160.1	Ca_kabuli_chr01	25571945	CC	AA	1946731921
SNP_P4_8242_25571968	NC_021160.1	Ca_kabuli_chr01	25571968	AA	GG	1946731923
SNP_P4_8243_25572027	NC_021160.1	Ca_kabuli_chr01	25572027	AA	GG	1946731925
SNP_P4_8244_25572031	NC_021160.1	Ca_kabuli_chr01	25572031	TT	AA	1946731927
SNP_P4_8246_25584050	NC_021160.1	Ca_kabuli_chr01	25584050	AA	GG	1946731929
SNP_P4_8247_25584093	NC_021160.1	Ca_kabuli_chr01	25584093	GG	AA	1946731931
SNP_P4_8248_25592786	NC_021160.1	Ca_kabuli_chr01	25592786	CC	TT	1946731933
SNP_P4_8249_25608434	NC_021160.1	Ca_kabuli_chr01	25608434	TT	CC	1946731935
SNP_P4_8250_25612830	NC_021160.1	Ca_kabuli_chr01	25612830	TT	AA	1946731937
SNP_P4_8251_25612843	NC_021160.1	Ca_kabuli_chr01	25612843	TT	CC	1946731939
SNP_P4_8252_25612844	NC_021160.1	Ca_kabuli_chr01	25612844	TT	AA	1946731941
SNP_P4_8253_25612893	NC_021160.1	Ca_kabuli_chr01	25612893	GG	CC	1946731943
SNP_P4_8254_25613079	NC_021160.1	Ca_kabuli_chr01	25613079	AA	TT	1946731945
SNP_P4_8255_25613089	NC_021160.1	Ca_kabuli_chr01	25613089	AA	GG	1946731947
SNP_P4_8256_25613107	NC_021160.1	Ca_kabuli_chr01	25613107	AA	GG	1946731949
SNP_P4_8257_25613205	NC_021160.1	Ca_kabuli_chr01	25613205	AA	CC	1946731951
SNP_P4_8258_25613238	NC_021160.1	Ca_kabuli_chr01	25613238	AA	GG	1946731953
SNP_P4_8259_25639893	NC_021160.1	Ca_kabuli_chr01	25639893	AA	GG	1946731955
SNP_P4_8260_25651123	NC_021160.1	Ca_kabuli_chr01	25651123	TT	CC	1946731957
SNP_P4_8261_25668097	NC_021160.1	Ca_kabuli_chr01	25668097	TT	CC	1946731959
SNP_P4_8262_25668103	NC_021160.1	Ca_kabuli_chr01	25668103	TT	CC	1946731961
SNP_P4_8263_25670122	NC_021160.1	Ca_kabuli_chr01	25670122	TT	CC	1946731963
SNP_P4_8264_25670134	NC_021160.1	Ca_kabuli_chr01	25670134	AA	GG	1946731965
SNP_P4_8265_25670143	NC_021160.1	Ca_kabuli_chr01	25670143	GG	AA	1946731967
SNP_P4_8266_25670146	NC_021160.1	Ca_kabuli_chr01	25670146	CC	TT	1946731969
SNP_P4_8267_25681649	NC_021160.1	Ca_kabuli_chr01	25681649	AA	GG	1946731971
SNP_P4_8268_25690483	NC_021160.1	Ca_kabuli_chr01	25690483	CC	TT	1946731973
SNP_P4_8269_25692597	NC_021160.1	Ca_kabuli_chr01	25692597	AA	TT	1946731975
SNP_P4_8270_25694332	NC_021160.1	Ca_kabuli_chr01	25694332	TT	CC	1946731977
SNP_P4_8271_25700356	NC_021160.1	Ca_kabuli_chr01	25700356	TT	GG	1946731979
SNP_P4_8272_25700359	NC_021160.1	Ca_kabuli_chr01	25700359	AA	GG	1946731981
SNP_P4_8273_25707980	NC_021160.1	Ca_kabuli_chr01	25707980	CC	TT	1946731983
SNP_P4_8274_25714882	NC_021160.1	Ca_kabuli_chr01	25714882	AA	GG	1946731985
SNP_P4_8275_25760955	NC_021160.1	Ca_kabuli_chr01	25760955	GG	CC	1946731987

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_8277_25770285	NC_021160.1	Ca_kabuli_chr01	25770285	CC	TT	1946731991
SNP_P4_8278_25770287	NC_021160.1	Ca_kabuli_chr01	25770287	GG	AA	1946731993
SNP_P4_8279_25770304	NC_021160.1	Ca_kabuli_chr01	25770304	TT	CC	1946731995
SNP_P4_8280_25778810	NC_021160.1	Ca_kabuli_chr01	25778810	AA	CC	1946731997
SNP_P4_8282_25786446	NC_021160.1	Ca_kabuli_chr01	25786446	CC	TT	1946731999
SNP_P4_8283_25796334	NC_021160.1	Ca_kabuli_chr01	25796334	AA	GG	1946732001
SNP_P4_8284_25798141	NC_021160.1	Ca_kabuli_chr01	25798141	GG	TT	1946732003
SNP_P4_8285_25798471	NC_021160.1	Ca_kabuli_chr01	25798471	GG	AA	1946732005
SNP_P4_8287_25802413	NC_021160.1	Ca_kabuli_chr01	25802413	CC	TT	1946732007
SNP_P4_8288_25802448	NC_021160.1	Ca_kabuli_chr01	25802448	GG	AA	1946732009
SNP_P4_8289_25802460	NC_021160.1	Ca_kabuli_chr01	25802460	GG	AA	1946732011
SNP_P4_8290_25802461	NC_021160.1	Ca_kabuli_chr01	25802461	AA	GG	1946732013
SNP_P4_8292_25820077	NC_021160.1	Ca_kabuli_chr01	25820077	CC	AA	1946732015
SNP_P4_8293_25824861	NC_021160.1	Ca_kabuli_chr01	25824861	TT	GG	1946732017
SNP_P4_8294_25824930	NC_021160.1	Ca_kabuli_chr01	25824930	TT	CC	1946732019
SNP_P4_8295_25824937	NC_021160.1	Ca_kabuli_chr01	25824937	TT	CC	1946732021
SNP_P4_8296_25824956	NC_021160.1	Ca_kabuli_chr01	25824956	TT	CC	1946732023
SNP_P4_8297_25824984	NC_021160.1	Ca_kabuli_chr01	25824984	GG	TT	1946732025
SNP_P4_8298_25824989	NC_021160.1	Ca_kabuli_chr01	25824989	GG	AA	1946732027
SNP_P4_8299_25824995	NC_021160.1	Ca_kabuli_chr01	25824995	CC	TT	1946732029
SNP_P4_8300_25825009	NC_021160.1	Ca_kabuli_chr01	25825009	TT	GG	1946732031
SNP_P4_8301_25825037	NC_021160.1	Ca_kabuli_chr01	25825037	CC	TT	1946732033
SNP_P4_8302_25825678	NC_021160.1	Ca_kabuli_chr01	25825678	GG	AA	1946732035
SNP_P4_8303_25829455	NC_021160.1	Ca_kabuli_chr01	25829455	CC	TT	1946732037
SNP_P4_8304_25832940	NC_021160.1	Ca_kabuli_chr01	25832940	TT	CC	1946732039
SNP_P4_8305_25832941	NC_021160.1	Ca_kabuli_chr01	25832941	TT	GG	1946732041
SNP_P4_8306_25833239	NC_021160.1	Ca_kabuli_chr01	25833239	CC	TT	1946732043
SNP_P4_8307_25834665	NC_021160.1	Ca_kabuli_chr01	25834665	CC	TT	1946732045
SNP_P4_8308_25837300	NC_021160.1	Ca_kabuli_chr01	25837300	AA	GG	1946732047
SNP_P4_8309_25837634	NC_021160.1	Ca_kabuli_chr01	25837634	AA	GG	1946732049
SNP_P4_8311_25853318	NC_021160.1	Ca_kabuli_chr01	25853318	GG	AA	1946732051
SNP_P4_8313_25890677	NC_021160.1	Ca_kabuli_chr01	25890677	AA	GG	1946732053
SNP_P4_8314_25898798	NC_021160.1	Ca_kabuli_chr01	25898798	AA	TT	1946732055
SNP_P4_8315_25901535	NC_021160.1	Ca_kabuli_chr01	25901535	TT	AA	1946732057
SNP_P4_8316_25909057	NC_021160.1	Ca_kabuli_chr01	25909057	CC	AA	1946732059
SNP_P4_8319_26014191	NC_021160.1	Ca_kabuli_chr01	26014191	CC	TT	1946732061
SNP_P4_8320_26014195	NC_021160.1	Ca_kabuli_chr01	26014195	TT	AA	1946732063
SNP_P4_8321_26014202	NC_021160.1	Ca_kabuli_chr01	26014202	TT	CC	1946732065
SNP_P4_8322_26014210	NC_021160.1	Ca_kabuli_chr01	26014210	TT	CC	1946732067
SNP_P4_8323_26014596	NC_021160.1	Ca_kabuli_chr01	26014596	TT	AA	1946732069
SNP_P4_8324_26046991	NC_021160.1	Ca_kabuli_chr01	26046991	AA	GG	1946732071

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_8326_26050639	NC_021160.1	Ca_kabuli_chr01	26050639	TT	AA	1946732075
SNP_P4_8327_26066911	NC_021160.1	Ca_kabuli_chr01	26066911	TT	AA	1946732076
SNP_P4_8328_26074555	NC_021160.1	Ca_kabuli_chr01	26074555	CC	TT	1946732078
SNP_P4_8329_26075262	NC_021160.1	Ca_kabuli_chr01	26075262	AA	GG	1946732080
SNP_P4_8330_26075334	NC_021160.1	Ca_kabuli_chr01	26075334	CC	TT	1946732082
SNP_P4_8331_26075335	NC_021160.1	Ca_kabuli_chr01	26075335	AA	GG	1946732084
SNP_P4_8332_26075351	NC_021160.1	Ca_kabuli_chr01	26075351	CC	TT	1946732086
SNP_P4_8333_26075501	NC_021160.1	Ca_kabuli_chr01	26075501	CC	TT	1946732088
SNP_P4_8334_26075553	NC_021160.1	Ca_kabuli_chr01	26075553	GG	AA	1946732090
SNP_P4_8335_26075565	NC_021160.1	Ca_kabuli_chr01	26075565	AA	GG	1946732092
SNP_P4_8337_26075799	NC_021160.1	Ca_kabuli_chr01	26075799	AA	GG	1946732094
SNP_P4_8338_26077437	NC_021160.1	Ca_kabuli_chr01	26077437	AA	GG	1946732096
SNP_P4_8339_26077443	NC_021160.1	Ca_kabuli_chr01	26077443	GG	AA	1946732098
SNP_P4_8340_26077467	NC_021160.1	Ca_kabuli_chr01	26077467	AA	GG	1946732099
SNP_P4_8341_26077473	NC_021160.1	Ca_kabuli_chr01	26077473	GG	AA	1946732101
SNP_P4_8342_26077512	NC_021160.1	Ca_kabuli_chr01	26077512	TT	CC	1946732103
SNP_P4_8343_26077521	NC_021160.1	Ca_kabuli_chr01	26077521	CC	TT	1946732105
SNP_P4_8344_26077524	NC_021160.1	Ca_kabuli_chr01	26077524	TT	CC	1946732107
SNP_P4_8345_26077688	NC_021160.1	Ca_kabuli_chr01	26077688	TT	CC	1946732109
SNP_P4_8346_26079108	NC_021160.1	Ca_kabuli_chr01	26079108	TT	CC	1946732111
SNP_P4_8347_26091944	NC_021160.1	Ca_kabuli_chr01	26091944	GG	AA	1946732113
SNP_P4_8349_26099401	NC_021160.1	Ca_kabuli_chr01	26099401	CC	AA	1946732115
SNP_P4_8350_26099439	NC_021160.1	Ca_kabuli_chr01	26099439	CC	AA	1946732117
SNP_P4_8351_26099447	NC_021160.1	Ca_kabuli_chr01	26099447	CC	TT	1946732119
SNP_P4_8352_26108615	NC_021160.1	Ca_kabuli_chr01	26108615	CC	AA	1946732121
SNP_P4_8353_26112718	NC_021160.1	Ca_kabuli_chr01	26112718	GG	CC	1946732123
SNP_P4_8354_26121124	NC_021160.1	Ca_kabuli_chr01	26121124	CC	TT	1946732125
SNP_P4_8355_26125777	NC_021160.1	Ca_kabuli_chr01	26125777	GG	CC	1946732127
SNP_P4_8356_26125826	NC_021160.1	Ca_kabuli_chr01	26125826	TT	GG	1946732129
SNP_P4_8357_26125845	NC_021160.1	Ca_kabuli_chr01	26125845	GG	AA	1946732131
SNP_P4_8358_26125855	NC_021160.1	Ca_kabuli_chr01	26125855	AA	GG	1946732133
SNP_P4_8359_26125886	NC_021160.1	Ca_kabuli_chr01	26125886	AA	GG	1946732135
SNP_P4_8360_26125906	NC_021160.1	Ca_kabuli_chr01	26125906	CC	AA	1946732137
SNP_P4_8361_26125918	NC_021160.1	Ca_kabuli_chr01	26125918	AA	TT	1946732139
SNP_P4_8362_26125956	NC_021160.1	Ca_kabuli_chr01	26125956	CC	TT	1946732141
SNP_P4_8363_26134503	NC_021160.1	Ca_kabuli_chr01	26134503	TT	CC	1946732143
SNP_P4_8364_26142774	NC_021160.1	Ca_kabuli_chr01	26142774	AA	CC	1946732145
SNP_P4_8365_26142783	NC_021160.1	Ca_kabuli_chr01	26142783	GG	AA	1946732147
SNP_P4_8366_26143694	NC_021160.1	Ca_kabuli_chr01	26143694	GG	AA	1946732149
SNP_P4_8367_26143696	NC_021160.1	Ca_kabuli_chr01	26143696	GG	AA	1946732152
SNP_P4_8368_26155179	NC_021160.1	Ca_kabuli_chr01	26155179	AA	TT	1946732154

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_8370_26163510	NC_021160.1	Ca_kabuli_chr01	26163510	CC	TT	1946732158
SNP_P4_8371_26173792	NC_021160.1	Ca_kabuli_chr01	26173792	GG	AA	1946732160
SNP_P4_8372_26189903	NC_021160.1	Ca_kabuli_chr01	26189903	AA	CC	1946732162
SNP_P4_8373_26189906	NC_021160.1	Ca_kabuli_chr01	26189906	TT	AA	1946732164
SNP_P4_8374_26202148	NC_021160.1	Ca_kabuli_chr01	26202148	TT	AA	1946732166
SNP_P4_8375_26202266	NC_021160.1	Ca_kabuli_chr01	26202266	AA	TT	1946732168
SNP_P4_8376_26202524	NC_021160.1	Ca_kabuli_chr01	26202524	TT	GG	1946732170
SNP_P4_8377_26202911	NC_021160.1	Ca_kabuli_chr01	26202911	TT	AA	1946732172
SNP_P4_8378_26203013	NC_021160.1	Ca_kabuli_chr01	26203013	TT	CC	1946732174
SNP_P4_8379_26203069	NC_021160.1	Ca_kabuli_chr01	26203069	GG	AA	1946732176
SNP_P4_8380_26203073	NC_021160.1	Ca_kabuli_chr01	26203073	CC	TT	1946732178
SNP_P4_8381_26204070	NC_021160.1	Ca_kabuli_chr01	26204070	GG	AA	1946732180
SNP_P4_8382_26210734	NC_021160.1	Ca_kabuli_chr01	26210734	AA	CC	1946732182
SNP_P4_8383_26220941	NC_021160.1	Ca_kabuli_chr01	26220941	GG	AA	1946732184
SNP_P4_8384_26223091	NC_021160.1	Ca_kabuli_chr01	26223091	TT	AA	1946732186
SNP_P4_8385_26223142	NC_021160.1	Ca_kabuli_chr01	26223142	CC	TT	1946732188
SNP_P4_8386_26223303	NC_021160.1	Ca_kabuli_chr01	26223303	GG	AA	1946732190
SNP_P4_8387_26231032	NC_021160.1	Ca_kabuli_chr01	26231032	GG	AA	1946732192
SNP_P4_8388_26245860	NC_021160.1	Ca_kabuli_chr01	26245860	TT	CC	1946732194
SNP_P4_8389_26245915	NC_021160.1	Ca_kabuli_chr01	26245915	TT	CC	1946732196
SNP_P4_8390_26245928	NC_021160.1	Ca_kabuli_chr01	26245928	GG	AA	1946732198
SNP_P4_8391_26245970	NC_021160.1	Ca_kabuli_chr01	26245970	AA	TT	1946732200
SNP_P4_8392_26246189	NC_021160.1	Ca_kabuli_chr01	26246189	CC	TT	1946732202
SNP_P4_8393_26246231	NC_021160.1	Ca_kabuli_chr01	26246231	AA	GG	1946732204
SNP_P4_8394_26246369	NC_021160.1	Ca_kabuli_chr01	26246369	AA	GG	1946732206
SNP_P4_8395_26246535	NC_021160.1	Ca_kabuli_chr01	26246535	GG	AA	1946732208
SNP_P4_8396_26246604	NC_021160.1	Ca_kabuli_chr01	26246604	TT	CC	1946732210
SNP_P4_8397_26246629	NC_021160.1	Ca_kabuli_chr01	26246629	GG	CC	1946732212
SNP_P4_8398_26246636	NC_021160.1	Ca_kabuli_chr01	26246636	AA	CC	1946732214
SNP_P4_8399_26246699	NC_021160.1	Ca_kabuli_chr01	26246699	TT	CC	1946732217
SNP_P4_8400_26246714	NC_021160.1	Ca_kabuli_chr01	26246714	TT	AA	1946732219
SNP_P4_8401_26247165	NC_021160.1	Ca_kabuli_chr01	26247165	GG	AA	1946732221
SNP_P4_8402_26247575	NC_021160.1	Ca_kabuli_chr01	26247575	CC	TT	1946732223
SNP_P4_8403_26247595	NC_021160.1	Ca_kabuli_chr01	26247595	TT	CC	1946732225
SNP_P4_8404_26252038	NC_021160.1	Ca_kabuli_chr01	26252038	AA	CC	1946732227
SNP_P4_8405_26252041	NC_021160.1	Ca_kabuli_chr01	26252041	AA	TT	1946732229
SNP_P4_8406_26259718	NC_021160.1	Ca_kabuli_chr01	26259718	TT	AA	1946732231
SNP_P4_8407_26271845	NC_021160.1	Ca_kabuli_chr01	26271845	GG	AA	1946732233
SNP_P4_8408_26278583	NC_021160.1	Ca_kabuli_chr01	26278583	AA	GG	1946732235
SNP_P4_8409_26291561	NC_021160.1	Ca_kabuli_chr01	26291561	TT	CC	1946732237
SNP_P4_8410_26291618	NC_021160.1	Ca_kabuli_chr01	26291618	AA	GG	1946732239

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_8412_26291644	NC_021160.1	Ca_kabuli_chr01	26291644	AA	TT	1946732243
SNP_P4_8413_26298160	NC_021160.1	Ca_kabuli_chr01	26298160	GG	TT	1946732245
SNP_P4_8414_26298181	NC_021160.1	Ca_kabuli_chr01	26298181	AA	GG	1946732247
SNP_P4_8415_26298196	NC_021160.1	Ca_kabuli_chr01	26298196	TT	CC	1946732249
SNP_P4_8416_26298198	NC_021160.1	Ca_kabuli_chr01	26298198	GG	AA	1946732251
SNP_P4_8417_26298211	NC_021160.1	Ca_kabuli_chr01	26298211	TT	AA	1946732253
SNP_P4_8418_26298217	NC_021160.1	Ca_kabuli_chr01	26298217	TT	GG	1946732255
SNP_P4_8419_26298223	NC_021160.1	Ca_kabuli_chr01	26298223	CC	TT	1946732257
SNP_P4_8420_26298226	NC_021160.1	Ca_kabuli_chr01	26298226	AA	TT	1946732259
SNP_P4_8421_26298494	NC_021160.1	Ca_kabuli_chr01	26298494	CC	TT	1946732261
SNP_P4_8422_26301927	NC_021160.1	Ca_kabuli_chr01	26301927	TT	CC	1946732263
SNP_P4_8423_26302138	NC_021160.1	Ca_kabuli_chr01	26302138	CC	TT	1946732265
SNP_P4_8424_26302144	NC_021160.1	Ca_kabuli_chr01	26302144	CC	GG	1946732267
SNP_P4_8425_26302948	NC_021160.1	Ca_kabuli_chr01	26302948	CC	TT	1946732269
SNP_P4_8426_26303076	NC_021160.1	Ca_kabuli_chr01	26303076	AA	GG	1946732271
SNP_P4_8427_26308980	NC_021160.1	Ca_kabuli_chr01	26308980	AA	GG	1946732273
SNP_P4_8428_26309217	NC_021160.1	Ca_kabuli_chr01	26309217	GG	CC	1946732275
SNP_P4_8429_26309225	NC_021160.1	Ca_kabuli_chr01	26309225	TT	AA	1946732277
SNP_P4_8430_26309251	NC_021160.1	Ca_kabuli_chr01	26309251	TT	CC	1946732279
SNP_P4_8431_26309253	NC_021160.1	Ca_kabuli_chr01	26309253	CC	TT	1946732281
SNP_P4_8432_26309292	NC_021160.1	Ca_kabuli_chr01	26309292	AA	GG	1946732283
SNP_P4_8433_26309293	NC_021160.1	Ca_kabuli_chr01	26309293	CC	TT	1946732285
SNP_P4_8434_26309302	NC_021160.1	Ca_kabuli_chr01	26309302	TT	GG	1946732287
SNP_P4_8435_26309347	NC_021160.1	Ca_kabuli_chr01	26309347	AA	GG	1946732290
SNP_P4_8436_26309355	NC_021160.1	Ca_kabuli_chr01	26309355	CC	GG	1946732292
SNP_P4_8437_26309367	NC_021160.1	Ca_kabuli_chr01	26309367	GG	AA	1946732294
SNP_P4_8438_26309592	NC_021160.1	Ca_kabuli_chr01	26309592	TT	GG	1946732296
SNP_P4_8439_26318797	NC_021160.1	Ca_kabuli_chr01	26318797	GG	AA	1946732298
SNP_P4_8440_26325883	NC_021160.1	Ca_kabuli_chr01	26325883	TT	CC	1946732299
SNP_P4_8441_26331153	NC_021160.1	Ca_kabuli_chr01	26331153	AA	GG	1946732300
SNP_P4_8442_26341944	NC_021160.1	Ca_kabuli_chr01	26341944	GG	AA	1946732301
SNP_P4_8443_26348023	NC_021160.1	Ca_kabuli_chr01	26348023	AA	GG	1946732302
SNP_P4_8444_26348027	NC_021160.1	Ca_kabuli_chr01	26348027	TT	CC	1946732304
SNP_P4_8445_26352687	NC_021160.1	Ca_kabuli_chr01	26352687	TT	GG	1946732306
SNP_P4_8448_26362603	NC_021160.1	Ca_kabuli_chr01	26362603	TT	CC	1946732308
SNP_P4_8449_26366587	NC_021160.1	Ca_kabuli_chr01	26366587	AA	CC	1946732310
SNP_P4_8451_26380742	NC_021160.1	Ca_kabuli_chr01	26380742	TT	CC	1946732312
SNP_P4_8452_26399852	NC_021160.1	Ca_kabuli_chr01	26399852	TT	CC	1946732314
SNP_P4_8453_26407617	NC_021160.1	Ca_kabuli_chr01	26407617	CC	TT	1946732316
SNP_P4_8454_26407632	NC_021160.1	Ca_kabuli_chr01	26407632	CC	TT	1946732318
SNP_P4_8455_26438192	NC_021160.1	Ca_kabuli_chr01	26438192	AA	GG	1946732320

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_8457_26439182	NC_021160.1	Ca_kabuli_chr01	26439182	TT	AA	1946732324
SNP_P4_8458_26439191	NC_021160.1	Ca_kabuli_chr01	26439191	AA	GG	1946732326
SNP_P4_8462_26489583	NC_021160.1	Ca_kabuli_chr01	26489583	GG	AA	1946732328
SNP_P4_8463_26489584	NC_021160.1	Ca_kabuli_chr01	26489584	TT	CC	1946732330
SNP_P4_8464_26489614	NC_021160.1	Ca_kabuli_chr01	26489614	CC	TT	1946732332
SNP_P4_8465_26496861	NC_021160.1	Ca_kabuli_chr01	26496861	AA	CC	1946732334
SNP_P4_8466_26496897	NC_021160.1	Ca_kabuli_chr01	26496897	TT	CC	1946732336
SNP_P4_8467_26497224	NC_021160.1	Ca_kabuli_chr01	26497224	TT	CC	1946732338
SNP_P4_8468_26502764	NC_021160.1	Ca_kabuli_chr01	26502764	GG	AA	1946732340
SNP_P4_8469_26578768	NC_021160.1	Ca_kabuli_chr01	26578768	TT	AA	1946732342
SNP_P4_8470_26590725	NC_021160.1	Ca_kabuli_chr01	26590725	TT	CC	1946732344
SNP_P4_8471_26590779	NC_021160.1	Ca_kabuli_chr01	26590779	CC	TT	1946732346
SNP_P4_8472_26590900	NC_021160.1	Ca_kabuli_chr01	26590900	TT	GG	1946732348
SNP_P4_8473_26591096	NC_021160.1	Ca_kabuli_chr01	26591096	AA	GG	1946732350
SNP_P4_8474_26591111	NC_021160.1	Ca_kabuli_chr01	26591111	AA	CC	1946732352
SNP_P4_8475_26593052	NC_021160.1	Ca_kabuli_chr01	26593052	CC	TT	1946732354
SNP_P4_8476_26593093	NC_021160.1	Ca_kabuli_chr01	26593093	AA	GG	1946732356
SNP_P4_8478_26611341	NC_021160.1	Ca_kabuli_chr01	26611341	GG	AA	1946732358
SNP_P4_8479_26611349	NC_021160.1	Ca_kabuli_chr01	26611349	GG	AA	1946732360
SNP_P4_8480_26627042	NC_021160.1	Ca_kabuli_chr01	26627042	TT	CC	1946732362
SNP_P4_8482_26649470	NC_021160.1	Ca_kabuli_chr01	26649470	AA	TT	1946732364
SNP_P4_8483_26650372	NC_021160.1	Ca_kabuli_chr01	26650372	TT	AA	1946732366
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SNP_P4_8486_26656962	NC_021160.1	Ca_kabuli_chr01	26656962	GG	AA	1946732370
SNP_P4_8487_26656981	NC_021160.1	Ca_kabuli_chr01	26656981	AA	GG	1946732372
SNP_P4_8488_26657116	NC_021160.1	Ca_kabuli_chr01	26657116	AA	GG	1946732374
SNP_P4_8489_26657125	NC_021160.1	Ca_kabuli_chr01	26657125	TT	AA	1946732376
SNP_P4_8490_26657126	NC_021160.1	Ca_kabuli_chr01	26657126	TT	CC	1946732378
SNP_P4_8491_26660661	NC_021160.1	Ca_kabuli_chr01	26660661	CC	TT	1946732380
SNP_P4_8492_26660893	NC_021160.1	Ca_kabuli_chr01	26660893	AA	TT	1946732383
SNP_P4_8493_26672602	NC_021160.1	Ca_kabuli_chr01	26672602	TT	CC	1946732385
SNP_P4_8494_26682972	NC_021160.1	Ca_kabuli_chr01	26682972	TT	GG	1946732387
SNP_P4_8496_26691640	NC_021160.1	Ca_kabuli_chr01	26691640	AA	CC	1946732389
SNP_P4_8497_26691649	NC_021160.1	Ca_kabuli_chr01	26691649	GG	TT	1946732391
SNP_P4_8499_26757110	NC_021160.1	Ca_kabuli_chr01	26757110	CC	AA	1946732393
SNP_P4_8500_26805457	NC_021160.1	Ca_kabuli_chr01	26805457	AA	GG	1946732395
SNP_P4_8501_26820177	NC_021160.1	Ca_kabuli_chr01	26820177	GG	CC	1946732397
SNP_P4_8502_26864258	NC_021160.1	Ca_kabuli_chr01	26864258	TT	GG	1946732399
SNP_P4_8503_26868620	NC_021160.1	Ca_kabuli_chr01	26868620	AA	CC	1946732401
SNP_P4_8504_26875710	NC_021160.1	Ca_kabuli_chr01	26875710	TT	GG	1946732403
SNP_P4_8505_26875711	NC_021160.1	Ca_kabuli_chr01	26875711	TT	AA	1946732405

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_8510_26896086	NC_021160.1	Ca_kabuli_chr01	26896086	AA	GG	1946732409
SNP_P4_8511_26898061	NC_021160.1	Ca_kabuli_chr01	26898061	AA	CC	1946732411
SNP_P4_8512_26900117	NC_021160.1	Ca_kabuli_chr01	26900117	GG	AA	1946732413
SNP_P4_8513_26936492	NC_021160.1	Ca_kabuli_chr01	26936492	GG	AA	1946732415
SNP_P4_8514_26943429	NC_021160.1	Ca_kabuli_chr01	26943429	CC	TT	1946732417
SNP_P4_8517_26983031	NC_021160.1	Ca_kabuli_chr01	26983031	CC	TT	1946732419
SNP_P4_8518_26997294	NC_021160.1	Ca_kabuli_chr01	26997294	CC	TT	1946732421
SNP_P4_8519_26997552	NC_021160.1	Ca_kabuli_chr01	26997552	GG	AA	1946732423
SNP_P4_8520_27038871	NC_021160.1	Ca_kabuli_chr01	27038871	GG	CC	1946732425
SNP_P4_8521_27059024	NC_021160.1	Ca_kabuli_chr01	27059024	TT	CC	1946732427
SNP_P4_8522_27059039	NC_021160.1	Ca_kabuli_chr01	27059039	TT	CC	1946732429
SNP_P4_8523_27059084	NC_021160.1	Ca_kabuli_chr01	27059084	CC	TT	1946732431
SNP_P4_8524_27059089	NC_021160.1	Ca_kabuli_chr01	27059089	GG	AA	1946732434
SNP_P4_8525_27059202	NC_021160.1	Ca_kabuli_chr01	27059202	TT	GG	1946732436
SNP_P4_8526_27059448	NC_021160.1	Ca_kabuli_chr01	27059448	TT	AA	1946732438
SNP_P4_8527_27081034	NC_021160.1	Ca_kabuli_chr01	27081034	TT	CC	1946732440
SNP_P4_8528_27088065	NC_021160.1	Ca_kabuli_chr01	27088065	GG	AA	1946732442
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SNP_P4_8530_27107113	NC_021160.1	Ca_kabuli_chr01	27107113	GG	TT	1946732446
SNP_P4_8531_27107114	NC_021160.1	Ca_kabuli_chr01	27107114	TT	AA	1946732448
SNP_P4_8532_27107180	NC_021160.1	Ca_kabuli_chr01	27107180	AA	GG	1946732450
SNP_P4_8533_27107189	NC_021160.1	Ca_kabuli_chr01	27107189	AA	TT	1946732452
SNP_P4_8534_27107190	NC_021160.1	Ca_kabuli_chr01	27107190	TT	GG	1946732454
SNP_P4_8535_27107206	NC_021160.1	Ca_kabuli_chr01	27107206	AA	GG	1946732456
SNP_P4_8536_27107208	NC_021160.1	Ca_kabuli_chr01	27107208	GG	AA	1946732458
SNP_P4_8537_27107218	NC_021160.1	Ca_kabuli_chr01	27107218	TT	CC	1946732460
SNP_P4_8538_27107225	NC_021160.1	Ca_kabuli_chr01	27107225	AA	GG	1946732462
SNP_P4_8539_27107264	NC_021160.1	Ca_kabuli_chr01	27107264	CC	TT	1946732464
SNP_P4_8540_27126034	NC_021160.1	Ca_kabuli_chr01	27126034	GG	AA	1946732466
SNP_P4_8541_27126100	NC_021160.1	Ca_kabuli_chr01	27126100	GG	AA	1946732468
SNP_P4_8542_27126493	NC_021160.1	Ca_kabuli_chr01	27126493	GG	AA	1946732470
SNP_P4_8543_27139899	NC_021160.1	Ca_kabuli_chr01	27139899	TT	CC	1946732472
SNP_P4_8544_27140854	NC_021160.1	Ca_kabuli_chr01	27140854	TT	CC	1946732474
SNP_P4_8545_27143521	NC_021160.1	Ca_kabuli_chr01	27143521	TT	CC	1946732476
SNP_P4_8546_27143553	NC_021160.1	Ca_kabuli_chr01	27143553	TT	CC	1946732478
SNP_P4_8549_27160673	NC_021160.1	Ca_kabuli_chr01	27160673	AA	CC	1946732480
SNP_P4_8550_27160694	NC_021160.1	Ca_kabuli_chr01	27160694	AA	GG	1946732482
SNP_P4_8551_27160710	NC_021160.1	Ca_kabuli_chr01	27160710	GG	AA	1946732484
SNP_P4_8552_27160730	NC_021160.1	Ca_kabuli_chr01	27160730	TT	CC	1946732486
SNP_P4_8553_27160775	NC_021160.1	Ca_kabuli_chr01	27160775	CC	TT	1946732488
SNP_P4_8555_27190600	NC_021160.1	Ca_kabuli_chr01	27190600	CC	TT	1946732489

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_8558_27208544	NC_021160.1	Ca_kabuli_chr01	27208544	AA	GG	1946732493
SNP_P4_8559_27211213	NC_021160.1	Ca_kabuli_chr01	27211213	CC	AA	1946732495
SNP_P4_8560_27232175	NC_021160.1	Ca_kabuli_chr01	27232175	AA	TT	1946732497
SNP_P4_8561_27232179	NC_021160.1	Ca_kabuli_chr01	27232179	CC	TT	1946732499
SNP_P4_8563_27234063	NC_021160.1	Ca_kabuli_chr01	27234063	GG	AA	1946732501
SNP_P4_8564_27234064	NC_021160.1	Ca_kabuli_chr01	27234064	GG	AA	1946732503
SNP_P4_8565_27234072	NC_021160.1	Ca_kabuli_chr01	27234072	AA	TT	1946732505
SNP_P4_8566_27235170	NC_021160.1	Ca_kabuli_chr01	27235170	TT	CC	1946732507
SNP_P4_8567_27254598	NC_021160.1	Ca_kabuli_chr01	27254598	AA	GG	1946732509
SNP_P4_8568_27254606	NC_021160.1	Ca_kabuli_chr01	27254606	CC	GG	1946732511
SNP_P4_8569_27254653	NC_021160.1	Ca_kabuli_chr01	27254653	GG	AA	1946732513
SNP_P4_8570_27254667	NC_021160.1	Ca_kabuli_chr01	27254667	AA	GG	1946732515
SNP_P4_8571_27254703	NC_021160.1	Ca_kabuli_chr01	27254703	AA	GG	1946732517
SNP_P4_8572_27254710	NC_021160.1	Ca_kabuli_chr01	27254710	TT	CC	1946732519
SNP_P4_8573_27254727	NC_021160.1	Ca_kabuli_chr01	27254727	AA	GG	1946732521
SNP_P4_8574_27254732	NC_021160.1	Ca_kabuli_chr01	27254732	TT	CC	1946732523
SNP_P4_8575_27255058	NC_021160.1	Ca_kabuli_chr01	27255058	GG	AA	1946732525
SNP_P4_8576_27255076	NC_021160.1	Ca_kabuli_chr01	27255076	TT	GG	1946732527
SNP_P4_8577_27259930	NC_021160.1	Ca_kabuli_chr01	27259930	CC	TT	1946732529
SNP_P4_8578_27263682	NC_021160.1	Ca_kabuli_chr01	27263682	AA	GG	1946732531
SNP_P4_8579_27263704	NC_021160.1	Ca_kabuli_chr01	27263704	AA	GG	1946732533
SNP_P4_8580_27263791	NC_021160.1	Ca_kabuli_chr01	27263791	CC	TT	1946732535
SNP_P4_8581_27263955	NC_021160.1	Ca_kabuli_chr01	27263955	AA	CC	1946732537
SNP_P4_8582_27264023	NC_021160.1	Ca_kabuli_chr01	27264023	CC	AA	1946732539
SNP_P4_8583_27264040	NC_021160.1	Ca_kabuli_chr01	27264040	AA	GG	1946732542
SNP_P4_8584_27264069	NC_021160.1	Ca_kabuli_chr01	27264069	AA	CC	1946732544
SNP_P4_8585_27264125	NC_021160.1	Ca_kabuli_chr01	27264125	TT	CC	1946732546
SNP_P4_8586_27264187	NC_021160.1	Ca_kabuli_chr01	27264187	GG	AA	1946732548
SNP_P4_8587_27264234	NC_021160.1	Ca_kabuli_chr01	27264234	GG	AA	1946732550
SNP_P4_8588_27264854	NC_021160.1	Ca_kabuli_chr01	27264854	TT	GG	1946732552
SNP_P4_8589_27267874	NC_021160.1	Ca_kabuli_chr01	27267874	GG	AA	1946732554
SNP_P4_8590_27282619	NC_021160.1	Ca_kabuli_chr01	27282619	AA	TT	1946732556
SNP_P4_8591_27282641	NC_021160.1	Ca_kabuli_chr01	27282641	TT	GG	1946732558
SNP_P4_8592_27282654	NC_021160.1	Ca_kabuli_chr01	27282654	AA	GG	1946732560
SNP_P4_8593_27282683	NC_021160.1	Ca_kabuli_chr01	27282683	TT	CC	1946732562
SNP_P4_8594_27282716	NC_021160.1	Ca_kabuli_chr01	27282716	CC	TT	1946732564
SNP_P4_8595_27282731	NC_021160.1	Ca_kabuli_chr01	27282731	GG	AA	1946732566
SNP_P4_8596_27282736	NC_021160.1	Ca_kabuli_chr01	27282736	AA	TT	1946732568
SNP_P4_8599_27282961	NC_021160.1	Ca_kabuli_chr01	27282961	CC	TT	1946732570
SNP_P4_8600_27296905	NC_021160.1	Ca_kabuli_chr01	27296905	TT	CC	1946732572
SNP_P4_8601_27296909	NC_021160.1	Ca_kabuli_chr01	27296909	AA	CC	1946732574

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_8603_27296921	NC_021160.1	Ca_kabuli_chr01	27296921	GG	CC	1946732578
SNP_P4_8604_27296939	NC_021160.1	Ca_kabuli_chr01	27296939	TT	CC	1946732580
SNP_P4_8605_27296968	NC_021160.1	Ca_kabuli_chr01	27296968	TT	AA	1946732582
SNP_P4_8606_27297104	NC_021160.1	Ca_kabuli_chr01	27297104	TT	CC	1946732584
SNP_P4_8608_27300714	NC_021160.1	Ca_kabuli_chr01	27300714	AA	CC	1946732586
SNP_P4_8609_27300848	NC_021160.1	Ca_kabuli_chr01	27300848	TT	CC	1946732588
SNP_P4_8610_27301072	NC_021160.1	Ca_kabuli_chr01	27301072	AA	GG	1946732590
SNP_P4_8611_27301079	NC_021160.1	Ca_kabuli_chr01	27301079	TT	CC	1946732592
SNP_P4_8612_27301390	NC_021160.1	Ca_kabuli_chr01	27301390	AA	GG	1946732594
SNP_P4_8613_27301438	NC_021160.1	Ca_kabuli_chr01	27301438	GG	TT	1946732596
SNP_P4_8614_27305761	NC_021160.1	Ca_kabuli_chr01	27305761	CC	AA	1946732598
SNP_P4_8615_27320057	NC_021160.1	Ca_kabuli_chr01	27320057	CC	TT	1946732600
SNP_P4_8616_27320063	NC_021160.1	Ca_kabuli_chr01	27320063	AA	GG	1946732601
SNP_P4_8618_27320561	NC_021160.1	Ca_kabuli_chr01	27320561	TT	CC	1946732604
SNP_P4_8619_27320573	NC_021160.1	Ca_kabuli_chr01	27320573	CC	TT	1946732606
SNP_P4_8620_27320641	NC_021160.1	Ca_kabuli_chr01	27320641	TT	CC	1946732609
SNP_P4_8621_27320642	NC_021160.1	Ca_kabuli_chr01	27320642	TT	AA	1946732611
SNP_P4_8623_27320651	NC_021160.1	Ca_kabuli_chr01	27320651	GG	AA	1946732614
SNP_P4_8624_27320653	NC_021160.1	Ca_kabuli_chr01	27320653	TT	CC	1946732616
SNP_P4_8625_27320661	NC_021160.1	Ca_kabuli_chr01	27320661	TT	GG	1946732619
SNP_P4_8626_27320670	NC_021160.1	Ca_kabuli_chr01	27320670	TT	CC	1946732622
SNP_P4_8627_27320987	NC_021160.1	Ca_kabuli_chr01	27320987	AA	GG	1946732624
SNP_P4_8628_27348313	NC_021160.1	Ca_kabuli_chr01	27348313	GG	AA	1946732626
SNP_P4_8629_27348878	NC_021160.1	Ca_kabuli_chr01	27348878	GG	TT	1946732628
SNP_P4_8630_27365367	NC_021160.1	Ca_kabuli_chr01	27365367	AA	TT	1946732630
SNP_P4_8631_27365890	NC_021160.1	Ca_kabuli_chr01	27365890	CC	GG	1946732632
SNP_P4_8632_27366486	NC_021160.1	Ca_kabuli_chr01	27366486	TT	AA	1946732634
SNP_P4_8633_27377080	NC_021160.1	Ca_kabuli_chr01	27377080	AA	GG	1946732636
SNP_P4_8634_27377086	NC_021160.1	Ca_kabuli_chr01	27377086	CC	AA	1946732638
SNP_P4_8635_27377104	NC_021160.1	Ca_kabuli_chr01	27377104	AA	TT	1946732640
SNP_P4_8636_27394081	NC_021160.1	Ca_kabuli_chr01	27394081	AA	CC	1946732642
SNP_P4_8637_27403158	NC_021160.1	Ca_kabuli_chr01	27403158	CC	AA	1946732644
SNP_P4_8638_27403397	NC_021160.1	Ca_kabuli_chr01	27403397	AA	TT	1946732646
SNP_P4_8639_27403436	NC_021160.1	Ca_kabuli_chr01	27403436	TT	GG	1946732648
SNP_P4_8640_27403444	NC_021160.1	Ca_kabuli_chr01	27403444	CC	AA	1946732650
SNP_P4_8641_27403500	NC_021160.1	Ca_kabuli_chr01	27403500	AA	CC	1946732652
SNP_P4_8642_27403604	NC_021160.1	Ca_kabuli_chr01	27403604	AA	GG	1946732654
SNP_P4_8643_27403646	NC_021160.1	Ca_kabuli_chr01	27403646	AA	CC	1946732656
SNP_P4_8644_27403757	NC_021160.1	Ca_kabuli_chr01	27403757	GG	AA	1946732658
SNP_P4_8645_27406594	NC_021160.1	Ca_kabuli_chr01	27406594	AA	CC	1946732660
SNP_P4_8646_27417976	NC_021160.1	Ca_kabuli_chr01	27417976	TT	CC	1946732662

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_8648_27419709	NC_021160.1	Ca_kabuli_chr01	27419709	AA	TT	1946732666
SNP_P4_8649_27419966	NC_021160.1	Ca_kabuli_chr01	27419966	TT	AA	1946732668
SNP_P4_8650_27420007	NC_021160.1	Ca_kabuli_chr01	27420007	CC	AA	1946732670
SNP_P4_8651_27420014	NC_021160.1	Ca_kabuli_chr01	27420014	TT	AA	1946732672
SNP_P4_8652_27420020	NC_021160.1	Ca_kabuli_chr01	27420020	CC	TT	1946732674
SNP_P4_8653_27421407	NC_021160.1	Ca_kabuli_chr01	27421407	AA	TT	1946732676
SNP_P4_8654_27421414	NC_021160.1	Ca_kabuli_chr01	27421414	CC	AA	1946732678
SNP_P4_8655_27433834	NC_021160.1	Ca_kabuli_chr01	27433834	GG	CC	1946732680
SNP_P4_8656_27448849	NC_021160.1	Ca_kabuli_chr01	27448849	AA	TT	1946732682
SNP_P4_8657_27448854	NC_021160.1	Ca_kabuli_chr01	27448854	AA	GG	1946732684
SNP_P4_8658_27511567	NC_021160.1	Ca_kabuli_chr01	27511567	AA	TT	1946732686
SNP_P4_8659_27534551	NC_021160.1	Ca_kabuli_chr01	27534551	CC	TT	1946732688
SNP_P4_8660_27534555	NC_021160.1	Ca_kabuli_chr01	27534555	AA	TT	1946732690
SNP_P4_8661_27564545	NC_021160.1	Ca_kabuli_chr01	27564545	AA	GG	1946732692
SNP_P4_8662_27596426	NC_021160.1	Ca_kabuli_chr01	27596426	GG	AA	1946732694
SNP_P4_8663_27596427	NC_021160.1	Ca_kabuli_chr01	27596427	CC	TT	1946732696
SNP_P4_8665_27597049	NC_021160.1	Ca_kabuli_chr01	27597049	AA	TT	1946732698
SNP_P4_8666_27597070	NC_021160.1	Ca_kabuli_chr01	27597070	GG	AA	1946732699
SNP_P4_8668_27597542	NC_021160.1	Ca_kabuli_chr01	27597542	GG	CC	1946732701
SNP_P4_8669_27597550	NC_021160.1	Ca_kabuli_chr01	27597550	TT	CC	1946732703
SNP_P4_8670_27597581	NC_021160.1	Ca_kabuli_chr01	27597581	AA	GG	1946732705
SNP_P4_8671_27637343	NC_021160.1	Ca_kabuli_chr01	27637343	TT	AA	1946732707
SNP_P4_8672_27637393	NC_021160.1	Ca_kabuli_chr01	27637393	CC	TT	1946732709
SNP_P4_8673_27637395	NC_021160.1	Ca_kabuli_chr01	27637395	AA	TT	1946732711
SNP_P4_8674_27637415	NC_021160.1	Ca_kabuli_chr01	27637415	GG	AA	1946732713
SNP_P4_8675_27637424	NC_021160.1	Ca_kabuli_chr01	27637424	TT	AA	1946732715
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SNP_P4_8681_27666919	NC_021160.1	Ca_kabuli_chr01	27666919	TT	CC	1946732721
SNP_P4_8682_27674588	NC_021160.1	Ca_kabuli_chr01	27674588	TT	CC	1946732723
SNP_P4_8683_27689180	NC_021160.1	Ca_kabuli_chr01	27689180	TT	CC	1946732725
SNP_P4_8684_27689211	NC_021160.1	Ca_kabuli_chr01	27689211	AA	GG	1946732727
SNP_P4_8685_27689262	NC_021160.1	Ca_kabuli_chr01	27689262	TT	GG	1946732729
SNP_P4_8686_27689307	NC_021160.1	Ca_kabuli_chr01	27689307	CC	TT	1946732731
SNP_P4_8687_27689308	NC_021160.1	Ca_kabuli_chr01	27689308	AA	CC	1946732733
SNP_P4_8688_27689579	NC_021160.1	Ca_kabuli_chr01	27689579	AA	GG	1946732735
SNP_P4_8689_27689593	NC_021160.1	Ca_kabuli_chr01	27689593	TT	CC	1946732737
SNP_P4_8690_27689600	NC_021160.1	Ca_kabuli_chr01	27689600	AA	GG	1946732739
SNP_P4_8691_27689622	NC_021160.1	Ca_kabuli_chr01	27689622	AA	GG	1946732741
SNP_P4_8692_27702846	NC_021160.1	Ca_kabuli_chr01	27702846	CC	AA	1946732743
SNP_P4_8694_27763030	NC_021160.1	Ca_kabuli_chr01	27763030	CC	TT	1946732745

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_8696_27770386	NC_021160.1	Ca_kabuli_chr01	27770386	AA	GG	1946732749
SNP_P4_8697_27770589	NC_021160.1	Ca_kabuli_chr01	27770589	AA	GG	1946732751
SNP_P4_8698_27770662	NC_021160.1	Ca_kabuli_chr01	27770662	AA	GG	1946732753
SNP_P4_8699_27770680	NC_021160.1	Ca_kabuli_chr01	27770680	AA	GG	1946732755
SNP_P4_8700_27772990	NC_021160.1	Ca_kabuli_chr01	27772990	AA	CC	1946732757
SNP_P4_8701_27773061	NC_021160.1	Ca_kabuli_chr01	27773061	GG	AA	1946732759
SNP_P4_8702_27773141	NC_021160.1	Ca_kabuli_chr01	27773141	CC	TT	1946732761
SNP_P4_8703_27773147	NC_021160.1	Ca_kabuli_chr01	27773147	TT	CC	1946732763
SNP_P4_8704_27773283	NC_021160.1	Ca_kabuli_chr01	27773283	GG	TT	1946732765
SNP_P4_8705_27773318	NC_021160.1	Ca_kabuli_chr01	27773318	TT	CC	1946732767
SNP_P4_8706_27773686	NC_021160.1	Ca_kabuli_chr01	27773686	TT	AA	1946732769
SNP_P4_8707_27773802	NC_021160.1	Ca_kabuli_chr01	27773802	AA	GG	1946732771
SNP_P4_8708_27799705	NC_021160.1	Ca_kabuli_chr01	27799705	CC	TT	1946732773
SNP_P4_8709_27800079	NC_021160.1	Ca_kabuli_chr01	27800079	AA	GG	1946732775
SNP_P4_8710_27800090	NC_021160.1	Ca_kabuli_chr01	27800090	GG	CC	1946732777
SNP_P4_8711_27819057	NC_021160.1	Ca_kabuli_chr01	27819057	AA	CC	1946732779
SNP_P4_8712_27819088	NC_021160.1	Ca_kabuli_chr01	27819088	GG	AA	1946732782
SNP_P4_8713_27819248	NC_021160.1	Ca_kabuli_chr01	27819248	TT	CC	1946732784
SNP_P4_8714_27819287	NC_021160.1	Ca_kabuli_chr01	27819287	GG	AA	1946732786
SNP_P4_8715_27819303	NC_021160.1	Ca_kabuli_chr01	27819303	TT	CC	1946732788
SNP_P4_8716_27820872	NC_021160.1	Ca_kabuli_chr01	27820872	AA	GG	1946732790
SNP_P4_8717_27820879	NC_021160.1	Ca_kabuli_chr01	27820879	GG	AA	1946732792
SNP_P4_8718_27832449	NC_021160.1	Ca_kabuli_chr01	27832449	GG	AA	1946732794
SNP_P4_8719_27833378	NC_021160.1	Ca_kabuli_chr01	27833378	TT	CC	1946732796
SNP_P4_8720_27838713	NC_021160.1	Ca_kabuli_chr01	27838713	CC	TT	1946732798
SNP_P4_8722_27850324	NC_021160.1	Ca_kabuli_chr01	27850324	CC	TT	1946732800
SNP_P4_8724_27857598	NC_021160.1	Ca_kabuli_chr01	27857598	CC	TT	1946732802
SNP_P4_8725_27863513	NC_021160.1	Ca_kabuli_chr01	27863513	AA	GG	1946732804
SNP_P4_8726_27895706	NC_021160.1	Ca_kabuli_chr01	27895706	CC	TT	1946732806
SNP_P4_8727_27896115	NC_021160.1	Ca_kabuli_chr01	27896115	GG	AA	1946732808
SNP_P4_8728_27896228	NC_021160.1	Ca_kabuli_chr01	27896228	TT	CC	1946732810
SNP_P4_8729_27896236	NC_021160.1	Ca_kabuli_chr01	27896236	GG	AA	1946732812
SNP_P4_8730_27904692	NC_021160.1	Ca_kabuli_chr01	27904692	CC	TT	1946732814
SNP_P4_8731_27904706	NC_021160.1	Ca_kabuli_chr01	27904706	CC	GG	1946732816
SNP_P4_8732_27904729	NC_021160.1	Ca_kabuli_chr01	27904729	AA	GG	1946732818
SNP_P4_8733_27914865	NC_021160.1	Ca_kabuli_chr01	27914865	CC	TT	1946732820
SNP_P4_8734_27977413	NC_021160.1	Ca_kabuli_chr01	27977413	CC	TT	1946732822
SNP_P4_8735_27978900	NC_021160.1	Ca_kabuli_chr01	27978900	AA	CC	1946732824
SNP_P4_8736_28010557	NC_021160.1	Ca_kabuli_chr01	28010557	GG	AA	1946732826
SNP_P4_8737_28010612	NC_021160.1	Ca_kabuli_chr01	28010612	TT	CC	1946732828
SNP_P4_8738_28010626	NC_021160.1	Ca_kabuli_chr01	28010626	CC	TT	1946732830

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_8739_28010806	NC_021160.1	Ca_kabuli_chr01	28010806	GG	AA	1946732832
SNP_P4_8740_28010833	NC_021160.1	Ca_kabuli_chr01	28010833	TT	CC	1946732834
SNP_P4_8741_28014881	NC_021160.1	Ca_kabuli_chr01	28014881	CC	TT	1946732836
SNP_P4_8742_28014896	NC_021160.1	Ca_kabuli_chr01	28014896	CC	TT	1946732838
SNP_P4_8743_28014938	NC_021160.1	Ca_kabuli_chr01	28014938	GG	AA	1946732840
SNP_P4_8744_28015301	NC_021160.1	Ca_kabuli_chr01	28015301	CC	TT	1946732842
SNP_P4_8746_28024302	NC_021160.1	Ca_kabuli_chr01	28024302	TT	CC	1946732844
SNP_P4_8747_28024583	NC_021160.1	Ca_kabuli_chr01	28024583	GG	AA	1946732846
SNP_P4_8748_28024593	NC_021160.1	Ca_kabuli_chr01	28024593	CC	TT	1946732848
SNP_P4_8750_28041741	NC_021160.1	Ca_kabuli_chr01	28041741	TT	CC	1946732850
SNP_P4_8751_28043627	NC_021160.1	Ca_kabuli_chr01	28043627	CC	TT	1946732852
SNP_P4_8752_28044236	NC_021160.1	Ca_kabuli_chr01	28044236	CC	TT	1946732854
SNP_P4_8753_28047420	NC_021160.1	Ca_kabuli_chr01	28047420	TT	GG	1946732856
SNP_P4_8754_28047422	NC_021160.1	Ca_kabuli_chr01	28047422	GG	AA	1946732858
SNP_P4_8755_28047425	NC_021160.1	Ca_kabuli_chr01	28047425	GG	AA	1946732861
SNP_P4_8756_28057086	NC_021160.1	Ca_kabuli_chr01	28057086	AA	GG	1946732863
SNP_P4_8757_28086024	NC_021160.1	Ca_kabuli_chr01	28086024	GG	AA	1946732865
SNP_P4_8758_28095427	NC_021160.1	Ca_kabuli_chr01	28095427	TT	GG	1946732867
SNP_P4_8759_28095879	NC_021160.1	Ca_kabuli_chr01	28095879	AA	GG	1946732869
SNP_P4_8760_28095891	NC_021160.1	Ca_kabuli_chr01	28095891	CC	TT	1946732871
SNP_P4_8761_28096172	NC_021160.1	Ca_kabuli_chr01	28096172	GG	AA	1946732873
SNP_P4_8762_28096207	NC_021160.1	Ca_kabuli_chr01	28096207	AA	GG	1946732874
SNP_P4_8763_28096208	NC_021160.1	Ca_kabuli_chr01	28096208	AA	TT	1946732876
SNP_P4_8764_28096256	NC_021160.1	Ca_kabuli_chr01	28096256	TT	CC	1946732878
SNP_P4_8765_28096322	NC_021160.1	Ca_kabuli_chr01	28096322	GG	TT	1946732880
SNP_P4_8766_28171032	NC_021160.1	Ca_kabuli_chr01	28171032	CC	TT	1946732882
SNP_P4_8767_28195222	NC_021160.1	Ca_kabuli_chr01	28195222	GG	TT	1946732884
SNP_P4_8768_28248634	NC_021160.1	Ca_kabuli_chr01	28248634	TT	GG	1946732886
SNP_P4_8769_28270685	NC_021160.1	Ca_kabuli_chr01	28270685	CC	GG	1946732888
SNP_P4_8770_28270688	NC_021160.1	Ca_kabuli_chr01	28270688	TT	AA	1946732890
SNP_P4_8771_28270690	NC_021160.1	Ca_kabuli_chr01	28270690	AA	TT	1946732892
SNP_P4_8772_28295994	NC_021160.1	Ca_kabuli_chr01	28295994	AA	CC	1946732894
SNP_P4_8773_28306843	NC_021160.1	Ca_kabuli_chr01	28306843	TT	AA	1946732896
SNP_P4_8774_28316175	NC_021160.1	Ca_kabuli_chr01	28316175	AA	CC	1946732898
SNP_P4_8775_28316207	NC_021160.1	Ca_kabuli_chr01	28316207	AA	GG	1946732900
SNP_P4_8776_28316309	NC_021160.1	Ca_kabuli_chr01	28316309	TT	CC	1946732902
SNP_P4_8777_28316330	NC_021160.1	Ca_kabuli_chr01	28316330	CC	TT	1946732904
SNP_P4_8778_28316575	NC_021160.1	Ca_kabuli_chr01	28316575	TT	CC	1946732906
SNP_P4_8779_28318496	NC_021160.1	Ca_kabuli_chr01	28318496	CC	GG	1946732907
SNP_P4_8782_28346379	NC_021160.1	Ca_kabuli_chr01	28346379	CC	TT	1946732909
SNP_P4_8783_28353602	NC_021160.1	Ca_kabuli_chr01	28353602	TT	CC	1946732911
SNP_P4_8784_28354417	NC_021160.1	Ca_kabuli_chr01	28354417	CC	TT	1946732913

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_8786_28386352	NC_021160.1	Ca_kabuli_chr01	28386352	TT	GG	1946732917
SNP_P4_8787_28434673	NC_021160.1	Ca_kabuli_chr01	28434673	AA	GG	1946732919
SNP_P4_8789_28449322	NC_021160.1	Ca_kabuli_chr01	28449322	AA	GG	1946732921
SNP_P4_8790_28449331	NC_021160.1	Ca_kabuli_chr01	28449331	AA	GG	1946732923
SNP_P4_8791_28449352	NC_021160.1	Ca_kabuli_chr01	28449352	TT	GG	1946732925
SNP_P4_8792_28449407	NC_021160.1	Ca_kabuli_chr01	28449407	GG	TT	1946732926
SNP_P4_8793_28449457	NC_021160.1	Ca_kabuli_chr01	28449457	AA	GG	1946732928
SNP_P4_8794_28449474	NC_021160.1	Ca_kabuli_chr01	28449474	TT	CC	1946732930
SNP_P4_8795_28449562	NC_021160.1	Ca_kabuli_chr01	28449562	AA	GG	1946732932
SNP_P4_8796_28449597	NC_021160.1	Ca_kabuli_chr01	28449597	AA	CC	1946732934
SNP_P4_8797_28449611	NC_021160.1	Ca_kabuli_chr01	28449611	AA	GG	1946732936
SNP_P4_8798_28449676	NC_021160.1	Ca_kabuli_chr01	28449676	AA	GG	1946732938
SNP_P4_8799_28449773	NC_021160.1	Ca_kabuli_chr01	28449773	TT	CC	1946732940
SNP_P4_8800_28449779	NC_021160.1	Ca_kabuli_chr01	28449779	AA	GG	1946732942
SNP_P4_8801_28449793	NC_021160.1	Ca_kabuli_chr01	28449793	AA	GG	1946732944
SNP_P4_8802_28449806	NC_021160.1	Ca_kabuli_chr01	28449806	CC	GG	1946732946
SNP_P4_8803_28449869	NC_021160.1	Ca_kabuli_chr01	28449869	TT	CC	1946732948
SNP_P4_8804_28449959	NC_021160.1	Ca_kabuli_chr01	28449959	AA	GG	1946732950
SNP_P4_8806_28468135	NC_021160.1	Ca_kabuli_chr01	28468135	CC	AA	1946732952
SNP_P4_8807_28468299	NC_021160.1	Ca_kabuli_chr01	28468299	CC	AA	1946732954
SNP_P4_8808_28468336	NC_021160.1	Ca_kabuli_chr01	28468336	AA	TT	1946732956
SNP_P4_8809_28468426	NC_021160.1	Ca_kabuli_chr01	28468426	AA	CC	1946732958
SNP_P4_8810_28469091	NC_021160.1	Ca_kabuli_chr01	28469091	TT	AA	1946732960
SNP_P4_8811_28484200	NC_021160.1	Ca_kabuli_chr01	28484200	TT	AA	1946732962
SNP_P4_8813_28550166	NC_021160.1	Ca_kabuli_chr01	28550166	CC	AA	1946732964
SNP_P4_8814_28550290	NC_021160.1	Ca_kabuli_chr01	28550290	TT	CC	1946732966
SNP_P4_8815_28550403	NC_021160.1	Ca_kabuli_chr01	28550403	TT	GG	1946732968
SNP_P4_8816_28550404	NC_021160.1	Ca_kabuli_chr01	28550404	GG	AA	1946732971
SNP_P4_8818_28550422	NC_021160.1	Ca_kabuli_chr01	28550422	GG	AA	1946732973
SNP_P4_8819_28550467	NC_021160.1	Ca_kabuli_chr01	28550467	AA	TT	1946732975
SNP_P4_8820_28550468	NC_021160.1	Ca_kabuli_chr01	28550468	TT	CC	1946732976
SNP_P4_8821_28550494	NC_021160.1	Ca_kabuli_chr01	28550494	AA	CC	1946732979
SNP_P4_8822_28585900	NC_021160.1	Ca_kabuli_chr01	28585900	GG	TT	1946732982
SNP_P4_8823_28587352	NC_021160.1	Ca_kabuli_chr01	28587352	TT	AA	1946732984
SNP_P4_8824_28598863	NC_021160.1	Ca_kabuli_chr01	28598863	AA	GG	1946732986
SNP_P4_8825_28628201	NC_021160.1	Ca_kabuli_chr01	28628201	GG	AA	1946732988
SNP_P4_8826_28635984	NC_021160.1	Ca_kabuli_chr01	28635984	AA	CC	1946732990
SNP_P4_8828_28662559	NC_021160.1	Ca_kabuli_chr01	28662559	AA	CC	1946732992
SNP_P4_8829_28665096	NC_021160.1	Ca_kabuli_chr01	28665096	GG	AA	1946732995
SNP_P4_8830_28665877	NC_021160.1	Ca_kabuli_chr01	28665877	GG	AA	1946732997
SNP_P4_8831_28666374	NC_021160.1	Ca_kabuli_chr01	28666374	CC	TT	1946732999

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_8833_28666712	NC_021160.1	Ca_kabuli_chr01	28666712	AA	GG	1946733003
SNP_P4_8834_28666768	NC_021160.1	Ca_kabuli_chr01	28666768	AA	GG	1946733004
SNP_P4_8835_28666779	NC_021160.1	Ca_kabuli_chr01	28666779	CC	TT	1946733006
SNP_P4_8836_28670672	NC_021160.1	Ca_kabuli_chr01	28670672	AA	CC	1946733008
SNP_P4_8837_28670674	NC_021160.1	Ca_kabuli_chr01	28670674	AA	GG	1946733010
SNP_P4_8839_28693051	NC_021160.1	Ca_kabuli_chr01	28693051	TT	CC	1946733012
SNP_P4_8842_28723469	NC_021160.1	Ca_kabuli_chr01	28723469	TT	AA	1946733014
SNP_P4_8843_28756297	NC_021160.1	Ca_kabuli_chr01	28756297	TT	CC	1946733016
SNP_P4_8844_28793776	NC_021160.1	Ca_kabuli_chr01	28793776	AA	GG	1946733018
SNP_P4_8845_28793899	NC_021160.1	Ca_kabuli_chr01	28793899	CC	TT	1946733020
SNP_P4_8846_28807607	NC_021160.1	Ca_kabuli_chr01	28807607	AA	TT	1946733022
SNP_P4_8847_28807772	NC_021160.1	Ca_kabuli_chr01	28807772	AA	CC	1946733024
SNP_P4_8848_28819408	NC_021160.1	Ca_kabuli_chr01	28819408	CC	GG	1946733026
SNP_P4_8849_28826413	NC_021160.1	Ca_kabuli_chr01	28826413	TT	AA	1946733028
SNP_P4_8850_28840344	NC_021160.1	Ca_kabuli_chr01	28840344	AA	CC	1946733030
SNP_P4_8851_28853154	NC_021160.1	Ca_kabuli_chr01	28853154	AA	GG	1946733032
SNP_P4_8852_28863493	NC_021160.1	Ca_kabuli_chr01	28863493	GG	AA	1946733034
SNP_P4_8853_28891060	NC_021160.1	Ca_kabuli_chr01	28891060	AA	GG	1946733036
SNP_P4_8854_28891076	NC_021160.1	Ca_kabuli_chr01	28891076	AA	GG	1946733038
SNP_P4_8855_28891079	NC_021160.1	Ca_kabuli_chr01	28891079	GG	TT	1946733040
SNP_P4_8856_28891083	NC_021160.1	Ca_kabuli_chr01	28891083	AA	GG	1946733042
SNP_P4_8857_28891438	NC_021160.1	Ca_kabuli_chr01	28891438	CC	TT	1946733044
SNP_P4_8858_28891481	NC_021160.1	Ca_kabuli_chr01	28891481	CC	TT	1946733046
SNP_P4_8859_28891489	NC_021160.1	Ca_kabuli_chr01	28891489	GG	AA	1946733049
SNP_P4_8860_28892184	NC_021160.1	Ca_kabuli_chr01	28892184	TT	AA	1946733051
SNP_P4_8861_28902893	NC_021160.1	Ca_kabuli_chr01	28902893	TT	GG	1946733053
SNP_P4_8862_28903265	NC_021160.1	Ca_kabuli_chr01	28903265	TT	GG	1946733055
SNP_P4_8864_28903337	NC_021160.1	Ca_kabuli_chr01	28903337	AA	TT	1946733057
SNP_P4_8866_28905200	NC_021160.1	Ca_kabuli_chr01	28905200	GG	TT	1946733059
SNP_P4_8867_28905217	NC_021160.1	Ca_kabuli_chr01	28905217	GG	AA	1946733061
SNP_P4_8868_28905278	NC_021160.1	Ca_kabuli_chr01	28905278	TT	AA	1946733063
SNP_P4_8869_28905307	NC_021160.1	Ca_kabuli_chr01	28905307	GG	AA	1946733065
SNP_P4_8870_28905318	NC_021160.1	Ca_kabuli_chr01	28905318	AA	TT	1946733067
SNP_P4_8871_28905356	NC_021160.1	Ca_kabuli_chr01	28905356	CC	AA	1946733069
SNP_P4_8872_28905378	NC_021160.1	Ca_kabuli_chr01	28905378	CC	TT	1946733071
SNP_P4_8873_28905393	NC_021160.1	Ca_kabuli_chr01	28905393	TT	CC	1946733073
SNP_P4_8874_28905422	NC_021160.1	Ca_kabuli_chr01	28905422	AA	GG	1946733075
SNP_P4_8875_28905426	NC_021160.1	Ca_kabuli_chr01	28905426	GG	AA	1946733077
SNP_P4_8876_28905467	NC_021160.1	Ca_kabuli_chr01	28905467	AA	CC	1946733079
SNP_P4_8877_28905490	NC_021160.1	Ca_kabuli_chr01	28905490	CC	AA	1946733081
SNP_P4_8878_28905531	NC_021160.1	Ca_kabuli_chr01	28905531	CC	TT	1946733083

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_8879_28905542	NC_021160.1	Ca_kabuli_chr01	28905542	TT	CC	1946733085
SNP_P4_8880_28905560	NC_021160.1	Ca_kabuli_chr01	28905560	TT	CC	1946733087
SNP_P4_8881_28905606	NC_021160.1	Ca_kabuli_chr01	28905606	AA	GG	1946733089
SNP_P4_8882_28905638	NC_021160.1	Ca_kabuli_chr01	28905638	GG	AA	1946733091
SNP_P4_8883_28905770	NC_021160.1	Ca_kabuli_chr01	28905770	TT	GG	1946733093
SNP_P4_8884_28905795	NC_021160.1	Ca_kabuli_chr01	28905795	GG	AA	1946733095
SNP_P4_8885_28905952	NC_021160.1	Ca_kabuli_chr01	28905952	CC	AA	1946733097
SNP_P4_8886_28905958	NC_021160.1	Ca_kabuli_chr01	28905958	AA	TT	1946733099
SNP_P4_8887_28906046	NC_021160.1	Ca_kabuli_chr01	28906046	TT	AA	1946733101
SNP_P4_8888_28906083	NC_021160.1	Ca_kabuli_chr01	28906083	TT	GG	1946733103
SNP_P4_8889_28906209	NC_021160.1	Ca_kabuli_chr01	28906209	TT	AA	1946733105
SNP_P4_8890_28906216	NC_021160.1	Ca_kabuli_chr01	28906216	GG	TT	1946733107
SNP_P4_8891_28906260	NC_021160.1	Ca_kabuli_chr01	28906260	AA	GG	1946733109
SNP_P4_8892_28906588	NC_021160.1	Ca_kabuli_chr01	28906588	AA	TT	1946733111
SNP_P4_8893_28906605	NC_021160.1	Ca_kabuli_chr01	28906605	AA	TT	1946733113
SNP_P4_8894_28906642	NC_021160.1	Ca_kabuli_chr01	28906642	AA	GG	1946733115
SNP_P4_8896_28906731	NC_021160.1	Ca_kabuli_chr01	28906731	AA	GG	1946733117
SNP_P4_8897_28906864	NC_021160.1	Ca_kabuli_chr01	28906864	TT	CC	1946733119
SNP_P4_8898_28906869	NC_021160.1	Ca_kabuli_chr01	28906869	AA	CC	1946733121
SNP_P4_8899_28906886	NC_021160.1	Ca_kabuli_chr01	28906886	CC	AA	1946733123
SNP_P4_8900_28906892	NC_021160.1	Ca_kabuli_chr01	28906892	CC	GG	1946733125
SNP_P4_8901_28906919	NC_021160.1	Ca_kabuli_chr01	28906919	AA	GG	1946733128
SNP_P4_8902_28906929	NC_021160.1	Ca_kabuli_chr01	28906929	GG	TT	1946733130
SNP_P4_8903_28906961	NC_021160.1	Ca_kabuli_chr01	28906961	AA	GG	1946733132
SNP_P4_8904_28909932	NC_021160.1	Ca_kabuli_chr01	28909932	AA	CC	1946733134
SNP_P4_8905_28909941	NC_021160.1	Ca_kabuli_chr01	28909941	CC	TT	1946733136
SNP_P4_8906_28910026	NC_021160.1	Ca_kabuli_chr01	28910026	CC	AA	1946733138
SNP_P4_8907_28910152	NC_021160.1	Ca_kabuli_chr01	28910152	GG	TT	1946733140
SNP_P4_8908_28910235	NC_021160.1	Ca_kabuli_chr01	28910235	GG	CC	1946733142
SNP_P4_8909_28910243	NC_021160.1	Ca_kabuli_chr01	28910243	CC	TT	1946733144
SNP_P4_8911_28910355	NC_021160.1	Ca_kabuli_chr01	28910355	CC	TT	1946733146
SNP_P4_8914_28910512	NC_021160.1	Ca_kabuli_chr01	28910512	TT	CC	1946733149
SNP_P4_8915_28910677	NC_021160.1	Ca_kabuli_chr01	28910677	AA	GG	1946733151
SNP_P4_8916_28910998	NC_021160.1	Ca_kabuli_chr01	28910998	AA	TT	1946733153
SNP_P4_8917_28911004	NC_021160.1	Ca_kabuli_chr01	28911004	TT	CC	1946733155
SNP_P4_8918_28911062	NC_021160.1	Ca_kabuli_chr01	28911062	CC	TT	1946733157
SNP_P4_8919_28911072	NC_021160.1	Ca_kabuli_chr01	28911072	AA	CC	1946733159
SNP_P4_8920_28911098	NC_021160.1	Ca_kabuli_chr01	28911098	GG	CC	1946733161
SNP_P4_8921_28911365	NC_021160.1	Ca_kabuli_chr01	28911365	AA	GG	1946733163
SNP_P4_8922_28911438	NC_021160.1	Ca_kabuli_chr01	28911438	CC	AA	1946733165
SNP_P4_8923_28913149	NC_021160.1	Ca_kabuli_chr01	28913149	CC	TT	1946733167
SNP_P4_8924_28915328	NC_021160.1	Ca_kabuli_chr01	28915328	TT	CC	1946733169

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_8926_28915429	NC_021160.1	Ca_kabuli_chr01	28915429	GG	AA	1946733174
SNP_P4_8927_28915453	NC_021160.1	Ca_kabuli_chr01	28915453	CC	TT	1946733176
SNP_P4_8928_28915861	NC_021160.1	Ca_kabuli_chr01	28915861	GG	TT	1946733178
SNP_P4_8929_28915863	NC_021160.1	Ca_kabuli_chr01	28915863	TT	GG	1946733180
SNP_P4_8930_28915876	NC_021160.1	Ca_kabuli_chr01	28915876	CC	TT	1946733182
SNP_P4_8931_28916425	NC_021160.1	Ca_kabuli_chr01	28916425	AA	CC	1946733184
SNP_P4_8932_28916548	NC_021160.1	Ca_kabuli_chr01	28916548	AA	CC	1946733186
SNP_P4_8933_28916651	NC_021160.1	Ca_kabuli_chr01	28916651	TT	CC	1946733188
SNP_P4_8934_28916679	NC_021160.1	Ca_kabuli_chr01	28916679	AA	CC	1946733190
SNP_P4_8935_28916692	NC_021160.1	Ca_kabuli_chr01	28916692	CC	TT	1946733192
SNP_P4_8936_28916753	NC_021160.1	Ca_kabuli_chr01	28916753	GG	AA	1946733194
SNP_P4_8937_28916786	NC_021160.1	Ca_kabuli_chr01	28916786	TT	CC	1946733196
SNP_P4_8938_28916839	NC_021160.1	Ca_kabuli_chr01	28916839	CC	GG	1946733198
SNP_P4_8939_28916864	NC_021160.1	Ca_kabuli_chr01	28916864	AA	CC	1946733200
SNP_P4_8940_28917064	NC_021160.1	Ca_kabuli_chr01	28917064	CC	TT	1946733202
SNP_P4_8941_28917083	NC_021160.1	Ca_kabuli_chr01	28917083	CC	AA	1946733204
SNP_P4_8942_28917166	NC_021160.1	Ca_kabuli_chr01	28917166	CC	GG	1946733206
SNP_P4_8943_28917204	NC_021160.1	Ca_kabuli_chr01	28917204	AA	CC	1946733208
SNP_P4_8944_28917805	NC_021160.1	Ca_kabuli_chr01	28917805	GG	TT	1946733210
SNP_P4_8945_28927984	NC_021160.1	Ca_kabuli_chr01	28927984	AA	TT	1946733212
SNP_P4_8946_28928016	NC_021160.1	Ca_kabuli_chr01	28928016	GG	AA	1946733214
SNP_P4_8947_28928358	NC_021160.1	Ca_kabuli_chr01	28928358	GG	AA	1946733216
SNP_P4_8948_28929114	NC_021160.1	Ca_kabuli_chr01	28929114	AA	TT	1946733218
SNP_P4_8949_28929133	NC_021160.1	Ca_kabuli_chr01	28929133	TT	CC	1946733220
SNP_P4_8950_28929138	NC_021160.1	Ca_kabuli_chr01	28929138	CC	TT	1946733222
SNP_P4_8951_28929139	NC_021160.1	Ca_kabuli_chr01	28929139	TT	CC	1946733224
SNP_P4_8952_28929155	NC_021160.1	Ca_kabuli_chr01	28929155	TT	CC	1946733226
SNP_P4_8953_28929192	NC_021160.1	Ca_kabuli_chr01	28929192	TT	AA	1946733228
SNP_P4_8954_28929193	NC_021160.1	Ca_kabuli_chr01	28929193	GG	TT	1946733230
SNP_P4_8955_28929247	NC_021160.1	Ca_kabuli_chr01	28929247	CC	TT	1946733232
SNP_P4_8956_28929562	NC_021160.1	Ca_kabuli_chr01	28929562	AA	CC	1946733234
SNP_P4_8958_28929642	NC_021160.1	Ca_kabuli_chr01	28929642	GG	AA	1946733236
SNP_P4_8959_28929684	NC_021160.1	Ca_kabuli_chr01	28929684	TT	AA	1946733238
SNP_P4_8960_28929764	NC_021160.1	Ca_kabuli_chr01	28929764	CC	TT	1946733240
SNP_P4_8961_28929809	NC_021160.1	Ca_kabuli_chr01	28929809	GG	AA	1946733242
SNP_P4_8962_28929823	NC_021160.1	Ca_kabuli_chr01	28929823	CC	GG	1946733244
SNP_P4_8963_28929875	NC_021160.1	Ca_kabuli_chr01	28929875	GG	AA	1946733246
SNP_P4_8964_28929878	NC_021160.1	Ca_kabuli_chr01	28929878	AA	GG	1946733248
SNP_P4_8965_28929995	NC_021160.1	Ca_kabuli_chr01	28929995	CC	TT	1946733250
SNP_P4_8966_28930070	NC_021160.1	Ca_kabuli_chr01	28930070	TT	AA	1946733252
SNP_P4_8967_28930079	NC_021160.1	Ca_kabuli_chr01	28930079	AA	GG	1946733254

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_8969_28930140	NC_021160.1	Ca_kabuli_chr01	28930140	AA	GG	1946733258
SNP_P4_8970_28930167	NC_021160.1	Ca_kabuli_chr01	28930167	GG	AA	1946733260
SNP_P4_8971_28930225	NC_021160.1	Ca_kabuli_chr01	28930225	GG	TT	1946733262
SNP_P4_8972_28930252	NC_021160.1	Ca_kabuli_chr01	28930252	AA	GG	1946733264
SNP_P4_8973_28930310	NC_021160.1	Ca_kabuli_chr01	28930310	CC	TT	1946733266
SNP_P4_8974_28930318	NC_021160.1	Ca_kabuli_chr01	28930318	CC	GG	1946733268
SNP_P4_8976_28930718	NC_021160.1	Ca_kabuli_chr01	28930718	GG	AA	1946733271
SNP_P4_8978_28931164	NC_021160.1	Ca_kabuli_chr01	28931164	TT	CC	1946733273
SNP_P4_8980_28935849	NC_021160.1	Ca_kabuli_chr01	28935849	AA	GG	1946733275
SNP_P4_8981_28935858	NC_021160.1	Ca_kabuli_chr01	28935858	AA	GG	1946733277
SNP_P4_8982_28936044	NC_021160.1	Ca_kabuli_chr01	28936044	CC	AA	1946733279
SNP_P4_8983_28936045	NC_021160.1	Ca_kabuli_chr01	28936045	AA	TT	1946733281
SNP_P4_8984_28936061	NC_021160.1	Ca_kabuli_chr01	28936061	CC	TT	1946733283
SNP_P4_8985_28936166	NC_021160.1	Ca_kabuli_chr01	28936166	AA	GG	1946733285
SNP_P4_8986_28936174	NC_021160.1	Ca_kabuli_chr01	28936174	AA	GG	1946733287
SNP_P4_8987_28936588	NC_021160.1	Ca_kabuli_chr01	28936588	GG	AA	1946733289
SNP_P4_8988_28939299	NC_021160.1	Ca_kabuli_chr01	28939299	CC	TT	1946733291
SNP_P4_8989_28939389	NC_021160.1	Ca_kabuli_chr01	28939389	TT	AA	1946733293
SNP_P4_8991_28939505	NC_021160.1	Ca_kabuli_chr01	28939505	GG	CC	1946733295
SNP_P4_8992_28939530	NC_021160.1	Ca_kabuli_chr01	28939530	CC	AA	1946733297
SNP_P4_8993_28939628	NC_021160.1	Ca_kabuli_chr01	28939628	GG	CC	1946733299
SNP_P4_8994_28939679	NC_021160.1	Ca_kabuli_chr01	28939679	AA	TT	1946733301
SNP_P4_8995_28939701	NC_021160.1	Ca_kabuli_chr01	28939701	TT	CC	1946733303
SNP_P4_8996_28939756	NC_021160.1	Ca_kabuli_chr01	28939756	AA	GG	1946733305
SNP_P4_8997_28939777	NC_021160.1	Ca_kabuli_chr01	28939777	CC	AA	1946733307
SNP_P4_8998_28939860	NC_021160.1	Ca_kabuli_chr01	28939860	AA	GG	1946733309
SNP_P4_8999_28939866	NC_021160.1	Ca_kabuli_chr01	28939866	CC	TT	1946733311
SNP_P4_9000_28939983	NC_021160.1	Ca_kabuli_chr01	28939983	AA	TT	1946733313
SNP_P4_9001_28940012	NC_021160.1	Ca_kabuli_chr01	28940012	AA	GG	1946733315
SNP_P4_9002_28940049	NC_021160.1	Ca_kabuli_chr01	28940049	TT	GG	1946733317
SNP_P4_9003_28940078	NC_021160.1	Ca_kabuli_chr01	28940078	GG	CC	1946733319
SNP_P4_9004_28940085	NC_021160.1	Ca_kabuli_chr01	28940085	TT	CC	1946733321
SNP_P4_9005_28940357	NC_021160.1	Ca_kabuli_chr01	28940357	GG	TT	1946733324
SNP_P4_9006_28940402	NC_021160.1	Ca_kabuli_chr01	28940402	AA	GG	1946733326
SNP_P4_9007_28940480	NC_021160.1	Ca_kabuli_chr01	28940480	TT	CC	1946733328
SNP_P4_9008_28940760	NC_021160.1	Ca_kabuli_chr01	28940760	AA	GG	1946733330
SNP_P4_9009_28941278	NC_021160.1	Ca_kabuli_chr01	28941278	TT	GG	1946733333
SNP_P4_9010_28941379	NC_021160.1	Ca_kabuli_chr01	28941379	CC	TT	1946733335
SNP_P4_9011_28941429	NC_021160.1	Ca_kabuli_chr01	28941429	GG	AA	1946733337
SNP_P4_9012_28941466	NC_021160.1	Ca_kabuli_chr01	28941466	CC	TT	1946733339
SNP_P4_9014_28941659	NC_021160.1	Ca_kabuli_chr01	28941659	CC	AA	1946733341

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_9016_28941663	NC_021160.1	Ca_kabuli_chr01	28941663	AA	GG	1946733345
SNP_P4_9017_28941670	NC_021160.1	Ca_kabuli_chr01	28941670	TT	AA	1946733347
SNP_P4_9018_28941742	NC_021160.1	Ca_kabuli_chr01	28941742	CC	AA	1946733349
SNP_P4_9019_28941762	NC_021160.1	Ca_kabuli_chr01	28941762	TT	CC	1946733351
SNP_P4_9021_28942004	NC_021160.1	Ca_kabuli_chr01	28942004	GG	AA	1946733353
SNP_P4_9022_28942045	NC_021160.1	Ca_kabuli_chr01	28942045	GG	TT	1946733355
SNP_P4_9023_28942180	NC_021160.1	Ca_kabuli_chr01	28942180	AA	CC	1946733357
SNP_P4_9024_28942266	NC_021160.1	Ca_kabuli_chr01	28942266	AA	GG	1946733359
SNP_P4_9025_28943316	NC_021160.1	Ca_kabuli_chr01	28943316	AA	TT	1946733361
SNP_P4_9026_28943412	NC_021160.1	Ca_kabuli_chr01	28943412	GG	AA	1946733363
SNP_P4_9027_28943538	NC_021160.1	Ca_kabuli_chr01	28943538	AA	GG	1946733365
SNP_P4_9029_28943569	NC_021160.1	Ca_kabuli_chr01	28943569	TT	CC	1946733367
SNP_P4_9030_28943671	NC_021160.1	Ca_kabuli_chr01	28943671	CC	AA	1946733369
SNP_P4_9031_28943779	NC_021160.1	Ca_kabuli_chr01	28943779	AA	GG	1946733371
SNP_P4_9032_28943893	NC_021160.1	Ca_kabuli_chr01	28943893	CC	TT	1946733373
SNP_P4_9033_28943947	NC_021160.1	Ca_kabuli_chr01	28943947	AA	TT	1946733374
SNP_P4_9034_28944007	NC_021160.1	Ca_kabuli_chr01	28944007	GG	AA	1946733376
SNP_P4_9036_28944080	NC_021160.1	Ca_kabuli_chr01	28944080	GG	TT	1946733378
SNP_P4_9037_28944126	NC_021160.1	Ca_kabuli_chr01	28944126	AA	TT	1946733380
SNP_P4_9038_28944156	NC_021160.1	Ca_kabuli_chr01	28944156	GG	AA	1946733382
SNP_P4_9039_28944300	NC_021160.1	Ca_kabuli_chr01	28944300	TT	CC	1946733384
SNP_P4_9040_28944329	NC_021160.1	Ca_kabuli_chr01	28944329	GG	TT	1946733386
SNP_P4_9042_28944579	NC_021160.1	Ca_kabuli_chr01	28944579	AA	GG	1946733388
SNP_P4_9043_28944631	NC_021160.1	Ca_kabuli_chr01	28944631	CC	TT	1946733390
SNP_P4_9044_28944672	NC_021160.1	Ca_kabuli_chr01	28944672	GG	TT	1946733392
SNP_P4_9045_28944675	NC_021160.1	Ca_kabuli_chr01	28944675	AA	GG	1946733394
SNP_P4_9046_28944714	NC_021160.1	Ca_kabuli_chr01	28944714	GG	TT	1946733396
SNP_P4_9048_29029030	NC_021160.1	Ca_kabuli_chr01	29029030	AA	TT	1946733398
SNP_P4_9049_29029054	NC_021160.1	Ca_kabuli_chr01	29029054	TT	CC	1946733400
SNP_P4_9050_29029074	NC_021160.1	Ca_kabuli_chr01	29029074	CC	TT	1946733402
SNP_P4_9051_29029393	NC_021160.1	Ca_kabuli_chr01	29029393	TT	CC	1946733404
SNP_P4_9052_29050625	NC_021160.1	Ca_kabuli_chr01	29050625	CC	AA	1946733406
SNP_P4_9053_29050631	NC_021160.1	Ca_kabuli_chr01	29050631	TT	CC	1946733408
SNP_P4_9054_29071928	NC_021160.1	Ca_kabuli_chr01	29071928	TT	AA	1946733410
SNP_P4_9055_29072510	NC_021160.1	Ca_kabuli_chr01	29072510	AA	GG	1946733412
SNP_P4_9056_29102540	NC_021160.1	Ca_kabuli_chr01	29102540	AA	GG	1946733414
SNP_P4_9057_29106568	NC_021160.1	Ca_kabuli_chr01	29106568	GG	AA	1946733416
SNP_P4_9058_29106572	NC_021160.1	Ca_kabuli_chr01	29106572	TT	GG	1946733418
SNP_P4_9060_29134368	NC_021160.1	Ca_kabuli_chr01	29134368	CC	TT	1946733420
SNP_P4_9061_29140467	NC_021160.1	Ca_kabuli_chr01	29140467	TT	AA	1946733422
SNP_P4_9062_29144384	NC_021160.1	Ca_kabuli_chr01	29144384	GG	AA	1946733424

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_9064_29157356	NC_021160.1	Ca_kabuli_chr01	29157356	GG	TT	1946733428
SNP_P4_9066_29163335	NC_021160.1	Ca_kabuli_chr01	29163335	CC	TT	1946733430
SNP_P4_9067_29163338	NC_021160.1	Ca_kabuli_chr01	29163338	GG	AA	1946733432
SNP_P4_9068_29163398	NC_021160.1	Ca_kabuli_chr01	29163398	CC	TT	1946733434
SNP_P4_9069_29163405	NC_021160.1	Ca_kabuli_chr01	29163405	GG	CC	1946733436
SNP_P4_9070_29163423	NC_021160.1	Ca_kabuli_chr01	29163423	TT	GG	1946733437
SNP_P4_9071_29176738	NC_021160.1	Ca_kabuli_chr01	29176738	GG	TT	1946733439
SNP_P4_9072_29176779	NC_021160.1	Ca_kabuli_chr01	29176779	GG	AA	1946733441
SNP_P4_9073_29176852	NC_021160.1	Ca_kabuli_chr01	29176852	AA	GG	1946733442
SNP_P4_9074_29176954	NC_021160.1	Ca_kabuli_chr01	29176954	CC	AA	1946733443
SNP_P4_9075_29176986	NC_021160.1	Ca_kabuli_chr01	29176986	AA	GG	1946733444
SNP_P4_9076_29176998	NC_021160.1	Ca_kabuli_chr01	29176998	AA	TT	1946733446
SNP_P4_9077_29177012	NC_021160.1	Ca_kabuli_chr01	29177012	TT	GG	1946733448
SNP_P4_9078_29246112	NC_021160.1	Ca_kabuli_chr01	29246112	TT	AA	1946733450
SNP_P4_9079_29260677	NC_021160.1	Ca_kabuli_chr01	29260677	TT	AA	1946733451
SNP_P4_9080_29274953	NC_021160.1	Ca_kabuli_chr01	29274953	AA	TT	1946733453
SNP_P4_9081_29283593	NC_021160.1	Ca_kabuli_chr01	29283593	CC	GG	1946733455
SNP_P4_9082_29283594	NC_021160.1	Ca_kabuli_chr01	29283594	TT	AA	1946733457
SNP_P4_9083_29300133	NC_021160.1	Ca_kabuli_chr01	29300133	TT	AA	1946733459
SNP_P4_9084_29303968	NC_021160.1	Ca_kabuli_chr01	29303968	AA	GG	1946733461
SNP_P4_9085_29306191	NC_021160.1	Ca_kabuli_chr01	29306191	CC	GG	1946733463
SNP_P4_9086_29319915	NC_021160.1	Ca_kabuli_chr01	29319915	AA	GG	1946733465
SNP_P4_9087_29335822	NC_021160.1	Ca_kabuli_chr01	29335822	GG	CC	1946733467
SNP_P4_9089_29343994	NC_021160.1	Ca_kabuli_chr01	29343994	GG	AA	1946733469
SNP_P4_9090_29346822	NC_021160.1	Ca_kabuli_chr01	29346822	TT	CC	1946733471
SNP_P4_9091_29346840	NC_021160.1	Ca_kabuli_chr01	29346840	GG	AA	1946733473
SNP_P4_9092_29353346	NC_021160.1	Ca_kabuli_chr01	29353346	AA	GG	1946733475
SNP_P4_9093_29353595	NC_021160.1	Ca_kabuli_chr01	29353595	AA	GG	1946733477
SNP_P4_9094_29360043	NC_021160.1	Ca_kabuli_chr01	29360043	TT	CC	1946733479
SNP_P4_9095_29361559	NC_021160.1	Ca_kabuli_chr01	29361559	TT	GG	1946733481
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SNP_P4_9097_29386772	NC_021160.1	Ca_kabuli_chr01	29386772	TT	AA	1946733485
SNP_P4_9098_29386800	NC_021160.1	Ca_kabuli_chr01	29386800	AA	GG	1946733487
SNP_P4_9099_29386833	NC_021160.1	Ca_kabuli_chr01	29386833	TT	AA	1946733489
SNP_P4_9101_29392857	NC_021160.1	Ca_kabuli_chr01	29392857	TT	GG	1946733491
SNP_P4_9103_29415729	NC_021160.1	Ca_kabuli_chr01	29415729	CC	TT	1946733493
SNP_P4_9104_29419736	NC_021160.1	Ca_kabuli_chr01	29419736	GG	TT	1946733495
SNP_P4_9105_29420304	NC_021160.1	Ca_kabuli_chr01	29420304	GG	AA	1946733497
SNP_P4_9106_29422282	NC_021160.1	Ca_kabuli_chr01	29422282	AA	GG	1946733499
SNP_P4_9107_29422531	NC_021160.1	Ca_kabuli_chr01	29422531	AA	GG	1946733501
SNP_P4_9108_29422565	NC_021160.1	Ca_kabuli_chr01	29422565	GG	TT	1946733503

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_9111_29422614	NC_021160.1	Ca_kabuli_chr01	29422614	GG	AA	1946733507
SNP_P4_9112_29455028	NC_021160.1	Ca_kabuli_chr01	29455028	GG	TT	1946733509
SNP_P4_9113_29455281	NC_021160.1	Ca_kabuli_chr01	29455281	TT	CC	1946733511
SNP_P4_9114_29455349	NC_021160.1	Ca_kabuli_chr01	29455349	AA	GG	1946733513
SNP_P4_9115_29471880	NC_021160.1	Ca_kabuli_chr01	29471880	CC	TT	1946733515
SNP_P4_9116_29483963	NC_021160.1	Ca_kabuli_chr01	29483963	AA	CC	1946733517
SNP_P4_9117_29505805	NC_021160.1	Ca_kabuli_chr01	29505805	TT	AA	1946733520
SNP_P4_9118_29505832	NC_021160.1	Ca_kabuli_chr01	29505832	CC	TT	1946733522
SNP_P4_9119_29505833	NC_021160.1	Ca_kabuli_chr01	29505833	AA	GG	1946733524
SNP_P4_9120_29505861	NC_021160.1	Ca_kabuli_chr01	29505861	GG	AA	1946733527
SNP_P4_9121_29505895	NC_021160.1	Ca_kabuli_chr01	29505895	CC	AA	1946733529
SNP_P4_9122_29505896	NC_021160.1	Ca_kabuli_chr01	29505896	TT	CC	1946733530
SNP_P4_9124_29515535	NC_021160.1	Ca_kabuli_chr01	29515535	AA	GG	1946733532
SNP_P4_9126_29524402	NC_021160.1	Ca_kabuli_chr01	29524402	AA	GG	1946733534
SNP_P4_9127_29525008	NC_021160.1	Ca_kabuli_chr01	29525008	CC	TT	1946733536
SNP_P4_9128_29525017	NC_021160.1	Ca_kabuli_chr01	29525017	CC	TT	1946733538
SNP_P4_9129_29525026	NC_021160.1	Ca_kabuli_chr01	29525026	CC	TT	1946733540
SNP_P4_9130_29526338	NC_021160.1	Ca_kabuli_chr01	29526338	AA	TT	1946733542
SNP_P4_9131_29526966	NC_021160.1	Ca_kabuli_chr01	29526966	TT	CC	1946733544
SNP_P4_9132_29538894	NC_021160.1	Ca_kabuli_chr01	29538894	TT	CC	1946733546
SNP_P4_9133_29538987	NC_021160.1	Ca_kabuli_chr01	29538987	AA	GG	1946733548
SNP_P4_9134_29539009	NC_021160.1	Ca_kabuli_chr01	29539009	AA	GG	1946733550
SNP_P4_9135_29539159	NC_021160.1	Ca_kabuli_chr01	29539159	GG	AA	1946733552
SNP_P4_9136_29540142	NC_021160.1	Ca_kabuli_chr01	29540142	AA	GG	1946733554
SNP_P4_9137_29544971	NC_021160.1	Ca_kabuli_chr01	29544971	AA	GG	1946733556
SNP_P4_9138_29572102	NC_021160.1	Ca_kabuli_chr01	29572102	TT	GG	1946733558
SNP_P4_9139_29572184	NC_021160.1	Ca_kabuli_chr01	29572184	GG	AA	1946733559
SNP_P4_9140_29572206	NC_021160.1	Ca_kabuli_chr01	29572206	AA	GG	1946733561
SNP_P4_9141_29572241	NC_021160.1	Ca_kabuli_chr01	29572241	TT	CC	1946733563
SNP_P4_9142_29572249	NC_021160.1	Ca_kabuli_chr01	29572249	AA	GG	1946733565
SNP_P4_9143_29572270	NC_021160.1	Ca_kabuli_chr01	29572270	CC	TT	1946733567
SNP_P4_9144_29572311	NC_021160.1	Ca_kabuli_chr01	29572311	TT	CC	1946733569
SNP_P4_9145_29572442	NC_021160.1	Ca_kabuli_chr01	29572442	GG	AA	1946733571
SNP_P4_9146_29572572	NC_021160.1	Ca_kabuli_chr01	29572572	AA	GG	1946733573
SNP_P4_9147_29572579	NC_021160.1	Ca_kabuli_chr01	29572579	TT	CC	1946733575
SNP_P4_9148_29572609	NC_021160.1	Ca_kabuli_chr01	29572609	GG	AA	1946733577
SNP_P4_9149_29572760	NC_021160.1	Ca_kabuli_chr01	29572760	CC	TT	1946733579
SNP_P4_9150_29576180	NC_021160.1	Ca_kabuli_chr01	29576180	TT	CC	1946733581
SNP_P4_9151_29579998	NC_021160.1	Ca_kabuli_chr01	29579998	CC	TT	1946733583
SNP_P4_9152_29582811	NC_021160.1	Ca_kabuli_chr01	29582811	GG	CC	1946733585
SNP_P4_9154_29587691	NC_021160.1	Ca_kabuli_chr01	29587691	TT	CC	1946733587

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_9156_29589521	NC_021160.1	Ca_kabuli_chr01	29589521	AA	CC	1946733591
SNP_P4_9157_29589535	NC_021160.1	Ca_kabuli_chr01	29589535	AA	GG	1946733593
SNP_P4_9158_29604771	NC_021160.1	Ca_kabuli_chr01	29604771	CC	GG	1946733595
SNP_P4_9159_29608860	NC_021160.1	Ca_kabuli_chr01	29608860	TT	CC	1946733597
SNP_P4_9160_29619593	NC_021160.1	Ca_kabuli_chr01	29619593	CC	AA	1946733599
SNP_P4_9161_29619830	NC_021160.1	Ca_kabuli_chr01	29619830	AA	CC	1946733601
SNP_P4_9162_29620230	NC_021160.1	Ca_kabuli_chr01	29620230	GG	TT	1946733603
SNP_P4_9163_29632665	NC_021160.1	Ca_kabuli_chr01	29632665	TT	GG	1946733605
SNP_P4_9164_29635296	NC_021160.1	Ca_kabuli_chr01	29635296	TT	CC	1946733607
SNP_P4_9165_29636688	NC_021160.1	Ca_kabuli_chr01	29636688	GG	CC	1946733609
SNP_P4_9167_29636959	NC_021160.1	Ca_kabuli_chr01	29636959	AA	GG	1946733611
SNP_P4_9169_29637110	NC_021160.1	Ca_kabuli_chr01	29637110	CC	TT	1946733613
SNP_P4_9170_29637157	NC_021160.1	Ca_kabuli_chr01	29637157	AA	GG	1946733615
SNP_P4_9171_29637342	NC_021160.1	Ca_kabuli_chr01	29637342	AA	GG	1946733617
SNP_P4_9172_29643475	NC_021160.1	Ca_kabuli_chr01	29643475	TT	CC	1946733619
SNP_P4_9173_29643488	NC_021160.1	Ca_kabuli_chr01	29643488	TT	CC	1946733621
SNP_P4_9174_29644159	NC_021160.1	Ca_kabuli_chr01	29644159	GG	CC	1946733623
SNP_P4_9175_29649728	NC_021160.1	Ca_kabuli_chr01	29649728	AA	GG	1946733625
SNP_P4_9176_29649730	NC_021160.1	Ca_kabuli_chr01	29649730	CC	TT	1946733627
SNP_P4_9177_29650149	NC_021160.1	Ca_kabuli_chr01	29650149	AA	TT	1946733629
SNP_P4_9179_29651022	NC_021160.1	Ca_kabuli_chr01	29651022	CC	TT	1946733631
SNP_P4_9180_29651843	NC_021160.1	Ca_kabuli_chr01	29651843	TT	CC	1946733633
SNP_P4_9181_29662577	NC_021160.1	Ca_kabuli_chr01	29662577	AA	GG	1946733636
SNP_P4_9183_29667539	NC_021160.1	Ca_kabuli_chr01	29667539	CC	TT	1946733638
SNP_P4_9184_29681676	NC_021160.1	Ca_kabuli_chr01	29681676	AA	GG	1946733640
SNP_P4_9185_29681704	NC_021160.1	Ca_kabuli_chr01	29681704	TT	CC	1946733642
SNP_P4_9186_29681746	NC_021160.1	Ca_kabuli_chr01	29681746	GG	TT	1946733644
SNP_P4_9187_29681757	NC_021160.1	Ca_kabuli_chr01	29681757	TT	AA	1946733646
SNP_P4_9188_29681764	NC_021160.1	Ca_kabuli_chr01	29681764	CC	TT	1946733648
SNP_P4_9189_29708430	NC_021160.1	Ca_kabuli_chr01	29708430	GG	AA	1946733650
SNP_P4_9190_29708494	NC_021160.1	Ca_kabuli_chr01	29708494	CC	TT	1946733652
SNP_P4_9191_29708521	NC_021160.1	Ca_kabuli_chr01	29708521	GG	AA	1946733654
SNP_P4_9192_29709089	NC_021160.1	Ca_kabuli_chr01	29709089	TT	GG	1946733656
SNP_P4_9193_29709116	NC_021160.1	Ca_kabuli_chr01	29709116	TT	CC	1946733658
SNP_P4_9194_29709146	NC_021160.1	Ca_kabuli_chr01	29709146	TT	CC	1946733660
SNP_P4_9196_29738800	NC_021160.1	Ca_kabuli_chr01	29738800	TT	CC	1946733662
SNP_P4_9197_29738832	NC_021160.1	Ca_kabuli_chr01	29738832	AA	GG	1946733664
SNP_P4_9198_29748203	NC_021160.1	Ca_kabuli_chr01	29748203	TT	AA	1946733666
SNP_P4_9199_29748251	NC_021160.1	Ca_kabuli_chr01	29748251	TT	GG	1946733668
SNP_P4_9200_29749936	NC_021160.1	Ca_kabuli_chr01	29749936	CC	GG	1946733670
SNP_P4_9201_29764271	NC_021160.1	Ca_kabuli_chr01	29764271	AA	GG	1946733672

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_9203_29764296	NC_021160.1	Ca_kabuli_chr01	29764296	TT	CC	1946733676
SNP_P4_9204_29764326	NC_021160.1	Ca_kabuli_chr01	29764326	CC	TT	1946733678
SNP_P4_9205_29766312	NC_021160.1	Ca_kabuli_chr01	29766312	AA	GG	1946733680
SNP_P4_9206_29766390	NC_021160.1	Ca_kabuli_chr01	29766390	TT	CC	1946733682
SNP_P4_9207_29770183	NC_021160.1	Ca_kabuli_chr01	29770183	TT	AA	1946733684
SNP_P4_9208_29770196	NC_021160.1	Ca_kabuli_chr01	29770196	TT	AA	1946733686
SNP_P4_9209_29781621	NC_021160.1	Ca_kabuli_chr01	29781621	GG	AA	1946733688
SNP_P4_9210_29781675	NC_021160.1	Ca_kabuli_chr01	29781675	AA	GG	1946733690
SNP_P4_9211_29781690	NC_021160.1	Ca_kabuli_chr01	29781690	AA	GG	1946733692
SNP_P4_9212_29781733	NC_021160.1	Ca_kabuli_chr01	29781733	GG	AA	1946733695
SNP_P4_9213_29781738	NC_021160.1	Ca_kabuli_chr01	29781738	AA	CC	1946733698
SNP_P4_9214_29781963	NC_021160.1	Ca_kabuli_chr01	29781963	AA	CC	1946733701
SNP_P4_9215_29781970	NC_021160.1	Ca_kabuli_chr01	29781970	TT	CC	1946733704
SNP_P4_9216_29782086	NC_021160.1	Ca_kabuli_chr01	29782086	AA	TT	1946733706
SNP_P4_9218_29791606	NC_021160.1	Ca_kabuli_chr01	29791606	TT	AA	1946733708
SNP_P4_9219_29792284	NC_021160.1	Ca_kabuli_chr01	29792284	GG	AA	1946733710
SNP_P4_9220_29792661	NC_021160.1	Ca_kabuli_chr01	29792661	AA	CC	1946733712
SNP_P4_9221_29792675	NC_021160.1	Ca_kabuli_chr01	29792675	TT	AA	1946733714
SNP_P4_9222_29792683	NC_021160.1	Ca_kabuli_chr01	29792683	CC	TT	1946733716
SNP_P4_9223_29792686	NC_021160.1	Ca_kabuli_chr01	29792686	GG	TT	1946733718
SNP_P4_9224_29796606	NC_021160.1	Ca_kabuli_chr01	29796606	CC	TT	1946733720
SNP_P4_9227_29811780	NC_021160.1	Ca_kabuli_chr01	29811780	TT	CC	1946733722
SNP_P4_9228_29812872	NC_021160.1	Ca_kabuli_chr01	29812872	TT	AA	1946733724
SNP_P4_9229_29812873	NC_021160.1	Ca_kabuli_chr01	29812873	TT	CC	1946733726
SNP_P4_9230_29812877	NC_021160.1	Ca_kabuli_chr01	29812877	AA	TT	1946733728
SNP_P4_9231_29813954	NC_021160.1	Ca_kabuli_chr01	29813954	CC	TT	1946733730
SNP_P4_9233_29817224	NC_021160.1	Ca_kabuli_chr01	29817224	AA	GG	1946733732
SNP_P4_9234_29817250	NC_021160.1	Ca_kabuli_chr01	29817250	CC	TT	1946733734
SNP_P4_9235_29817437	NC_021160.1	Ca_kabuli_chr01	29817437	CC	AA	1946733736
SNP_P4_9236_29817449	NC_021160.1	Ca_kabuli_chr01	29817449	GG	AA	1946733738
SNP_P4_9237_29817460	NC_021160.1	Ca_kabuli_chr01	29817460	AA	GG	1946733740
SNP_P4_9238_29817514	NC_021160.1	Ca_kabuli_chr01	29817514	CC	AA	1946733741
SNP_P4_9239_29817516	NC_021160.1	Ca_kabuli_chr01	29817516	TT	CC	1946733743
SNP_P4_9240_29817658	NC_021160.1	Ca_kabuli_chr01	29817658	CC	TT	1946733745
SNP_P4_9241_29817901	NC_021160.1	Ca_kabuli_chr01	29817901	TT	CC	1946733747
SNP_P4_9242_29817948	NC_021160.1	Ca_kabuli_chr01	29817948	GG	AA	1946733749
SNP_P4_9243_29817982	NC_021160.1	Ca_kabuli_chr01	29817982	CC	TT	1946733751
SNP_P4_9244_29818025	NC_021160.1	Ca_kabuli_chr01	29818025	TT	CC	1946733753
SNP_P4_9245_29818196	NC_021160.1	Ca_kabuli_chr01	29818196	CC	AA	1946733755
SNP_P4_9246_29818233	NC_021160.1	Ca_kabuli_chr01	29818233	AA	GG	1946733757
SNP_P4_9247_29818311	NC_021160.1	Ca_kabuli_chr01	29818311	TT	CC	1946733759

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_9249_29818390	NC_021160.1	Ca_kabuli_chr01	29818390	AA	GG	1946733763
SNP_P4_9250_29818474	NC_021160.1	Ca_kabuli_chr01	29818474	AA	GG	1946733765
SNP_P4_9251_29818597	NC_021160.1	Ca_kabuli_chr01	29818597	TT	CC	1946733767
SNP_P4_9252_29818601	NC_021160.1	Ca_kabuli_chr01	29818601	AA	GG	1946733769
SNP_P4_9253_29818605	NC_021160.1	Ca_kabuli_chr01	29818605	AA	CC	1946733771
SNP_P4_9254_29818615	NC_021160.1	Ca_kabuli_chr01	29818615	TT	CC	1946733773
SNP_P4_9255_29818667	NC_021160.1	Ca_kabuli_chr01	29818667	GG	AA	1946733775
SNP_P4_9257_29821444	NC_021160.1	Ca_kabuli_chr01	29821444	CC	TT	1946733777
SNP_P4_9258_29821458	NC_021160.1	Ca_kabuli_chr01	29821458	TT	CC	1946733779
SNP_P4_9259_29823411	NC_021160.1	Ca_kabuli_chr01	29823411	GG	AA	1946733781
SNP_P4_9260_29823495	NC_021160.1	Ca_kabuli_chr01	29823495	AA	TT	1946733783
SNP_P4_9261_29823496	NC_021160.1	Ca_kabuli_chr01	29823496	TT	CC	1946733785
SNP_P4_9262_29823570	NC_021160.1	Ca_kabuli_chr01	29823570	CC	TT	1946733787
SNP_P4_9263_29823595	NC_021160.1	Ca_kabuli_chr01	29823595	CC	TT	1946733789
SNP_P4_9264_29823812	NC_021160.1	Ca_kabuli_chr01	29823812	CC	AA	1946733791
SNP_P4_9265_29824286	NC_021160.1	Ca_kabuli_chr01	29824286	CC	TT	1946733793
SNP_P4_9266_29824320	NC_021160.1	Ca_kabuli_chr01	29824320	TT	AA	1946733795
SNP_P4_9267_29824668	NC_021160.1	Ca_kabuli_chr01	29824668	TT	CC	1946733797
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SNP_P4_9269_29824753	NC_021160.1	Ca_kabuli_chr01	29824753	AA	TT	1946733801
SNP_P4_9270_29824798	NC_021160.1	Ca_kabuli_chr01	29824798	CC	TT	1946733803
SNP_P4_9271_29824840	NC_021160.1	Ca_kabuli_chr01	29824840	TT	CC	1946733805
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SNP_P4_9273_29824933	NC_021160.1	Ca_kabuli_chr01	29824933	GG	AA	1946733809
SNP_P4_9274_29824987	NC_021160.1	Ca_kabuli_chr01	29824987	GG	AA	1946733811
SNP_P4_9275_29825002	NC_021160.1	Ca_kabuli_chr01	29825002	CC	TT	1946733813
SNP_P4_9276_29825092	NC_021160.1	Ca_kabuli_chr01	29825092	GG	AA	1946733815
SNP_P4_9277_29825125	NC_021160.1	Ca_kabuli_chr01	29825125	GG	AA	1946733817
SNP_P4_9278_29825128	NC_021160.1	Ca_kabuli_chr01	29825128	TT	GG	1946733819
SNP_P4_9280_29825588	NC_021160.1	Ca_kabuli_chr01	29825588	AA	TT	1946733821
SNP_P4_9282_29830003	NC_021160.1	Ca_kabuli_chr01	29830003	CC	AA	1946733823
SNP_P4_9283_29830227	NC_021160.1	Ca_kabuli_chr01	29830227	TT	GG	1946733825
SNP_P4_9284_29830271	NC_021160.1	Ca_kabuli_chr01	29830271	TT	AA	1946733827
SNP_P4_9285_29830272	NC_021160.1	Ca_kabuli_chr01	29830272	TT	CC	1946733829
SNP_P4_9286_29841456	NC_021160.1	Ca_kabuli_chr01	29841456	TT	CC	1946733831
SNP_P4_9287_29841835	NC_021160.1	Ca_kabuli_chr01	29841835	CC	TT	1946733833
SNP_P4_9288_29841895	NC_021160.1	Ca_kabuli_chr01	29841895	AA	GG	1946733834
SNP_P4_9289_29841949	NC_021160.1	Ca_kabuli_chr01	29841949	CC	AA	1946733836
SNP_P4_9290_29842165	NC_021160.1	Ca_kabuli_chr01	29842165	TT	CC	1946733838
SNP_P4_9291_29842268	NC_021160.1	Ca_kabuli_chr01	29842268	AA	GG	1946733840
SNP_P4_9292_29842342	NC_021160.1	Ca_kabuli_chr01	29842342	TT	AA	1946733842

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_9294_29842394	NC_021160.1	Ca_kabuli_chr01	29842394	AA	GG	1946733846
SNP_P4_9295_29842411	NC_021160.1	Ca_kabuli_chr01	29842411	TT	GG	1946733848
SNP_P4_9297_29842636	NC_021160.1	Ca_kabuli_chr01	29842636	TT	CC	1946733850
SNP_P4_9298_29842637	NC_021160.1	Ca_kabuli_chr01	29842637	TT	CC	1946733852
SNP_P4_9299_29842658	NC_021160.1	Ca_kabuli_chr01	29842658	TT	AA	1946733854
SNP_P4_9300_29842683	NC_021160.1	Ca_kabuli_chr01	29842683	AA	CC	1946733856
SNP_P4_9301_29842732	NC_021160.1	Ca_kabuli_chr01	29842732	TT	CC	1946733858
SNP_P4_9302_29842772	NC_021160.1	Ca_kabuli_chr01	29842772	AA	GG	1946733860
SNP_P4_9303_29843169	NC_021160.1	Ca_kabuli_chr01	29843169	CC	TT	1946733862
SNP_P4_9304_29843494	NC_021160.1	Ca_kabuli_chr01	29843494	CC	AA	1946733864
SNP_P4_9305_29843549	NC_021160.1	Ca_kabuli_chr01	29843549	CC	TT	1946733866
SNP_P4_9306_29843748	NC_021160.1	Ca_kabuli_chr01	29843748	AA	TT	1946733867
SNP_P4_9308_29843889	NC_021160.1	Ca_kabuli_chr01	29843889	TT	CC	1946733869
SNP_P4_9309_29844046	NC_021160.1	Ca_kabuli_chr01	29844046	AA	GG	1946733871
SNP_P4_9311_29844512	NC_021160.1	Ca_kabuli_chr01	29844512	TT	GG	1946733873
SNP_P4_9312_29844537	NC_021160.1	Ca_kabuli_chr01	29844537	GG	CC	1946733875
SNP_P4_9313_29845069	NC_021160.1	Ca_kabuli_chr01	29845069	TT	GG	1946733877
SNP_P4_9314_29845249	NC_021160.1	Ca_kabuli_chr01	29845249	AA	TT	1946733879
SNP_P4_9315_29845517	NC_021160.1	Ca_kabuli_chr01	29845517	TT	AA	1946733881
SNP_P4_9316_29845533	NC_021160.1	Ca_kabuli_chr01	29845533	TT	CC	1946733883
SNP_P4_9317_29845806	NC_021160.1	Ca_kabuli_chr01	29845806	AA	CC	1946733885
SNP_P4_9318_29845918	NC_021160.1	Ca_kabuli_chr01	29845918	TT	CC	1946733887
SNP_P4_9319_29845923	NC_021160.1	Ca_kabuli_chr01	29845923	AA	TT	1946733889
SNP_P4_9320_29846237	NC_021160.1	Ca_kabuli_chr01	29846237	TT	CC	1946733891
SNP_P4_9321_29846270	NC_021160.1	Ca_kabuli_chr01	29846270	GG	AA	1946733894
SNP_P4_9322_29846295	NC_021160.1	Ca_kabuli_chr01	29846295	TT	CC	1946733896
SNP_P4_9323_29846392	NC_021160.1	Ca_kabuli_chr01	29846392	TT	GG	1946733898
SNP_P4_9324_29846428	NC_021160.1	Ca_kabuli_chr01	29846428	CC	AA	1946733900
SNP_P4_9325_29846434	NC_021160.1	Ca_kabuli_chr01	29846434	TT	GG	1946733902
SNP_P4_9326_29846491	NC_021160.1	Ca_kabuli_chr01	29846491	GG	TT	1946733904
SNP_P4_9328_29846574	NC_021160.1	Ca_kabuli_chr01	29846574	TT	AA	1946733906
SNP_P4_9330_29847045	NC_021160.1	Ca_kabuli_chr01	29847045	AA	TT	1946733908
SNP_P4_9331_29847336	NC_021160.1	Ca_kabuli_chr01	29847336	AA	GG	1946733910
SNP_P4_9332_29847457	NC_021160.1	Ca_kabuli_chr01	29847457	CC	AA	1946733912
SNP_P4_9333_29847500	NC_021160.1	Ca_kabuli_chr01	29847500	TT	CC	1946733914
SNP_P4_9334_29847534	NC_021160.1	Ca_kabuli_chr01	29847534	CC	TT	1946733916
SNP_P4_9335_29847570	NC_021160.1	Ca_kabuli_chr01	29847570	TT	CC	1946733918
SNP_P4_9336_29847608	NC_021160.1	Ca_kabuli_chr01	29847608	GG	AA	1946733920
SNP_P4_9337_29847701	NC_021160.1	Ca_kabuli_chr01	29847701	GG	AA	1946733922
SNP_P4_9338_29847781	NC_021160.1	Ca_kabuli_chr01	29847781	CC	GG	1946733924
SNP_P4_9339_29847861	NC_021160.1	Ca_kabuli_chr01	29847861	TT	CC	1946733926

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_9343_29848169	NC_021160.1	Ca_kabuli_chr01	29848169	CC	TT	1946733930
SNP_P4_9344_29848317	NC_021160.1	Ca_kabuli_chr01	29848317	AA	TT	1946733932
SNP_P4_9345_29848320	NC_021160.1	Ca_kabuli_chr01	29848320	TT	CC	1946733934
SNP_P4_9346_29848428	NC_021160.1	Ca_kabuli_chr01	29848428	CC	AA	1946733936
SNP_P4_9347_29848466	NC_021160.1	Ca_kabuli_chr01	29848466	GG	AA	1946733938
SNP_P4_9348_29848512	NC_021160.1	Ca_kabuli_chr01	29848512	GG	TT	1946733940
SNP_P4_9349_29848826	NC_021160.1	Ca_kabuli_chr01	29848826	TT	CC	1946733942
SNP_P4_9350_29848856	NC_021160.1	Ca_kabuli_chr01	29848856	GG	AA	1946733944
SNP_P4_9351_29848868	NC_021160.1	Ca_kabuli_chr01	29848868	GG	AA	1946733946
SNP_P4_9352_29848871	NC_021160.1	Ca_kabuli_chr01	29848871	GG	AA	1946733948
SNP_P4_9353_29848880	NC_021160.1	Ca_kabuli_chr01	29848880	GG	AA	1946733949
SNP_P4_9354_29849049	NC_021160.1	Ca_kabuli_chr01	29849049	GG	AA	1946733951
SNP_P4_9355_29849050	NC_021160.1	Ca_kabuli_chr01	29849050	CC	GG	1946733953
SNP_P4_9356_29849052	NC_021160.1	Ca_kabuli_chr01	29849052	AA	GG	1946733955
SNP_P4_9357_29849056	NC_021160.1	Ca_kabuli_chr01	29849056	GG	AA	1946733957
SNP_P4_9358_29849068	NC_021160.1	Ca_kabuli_chr01	29849068	AA	GG	1946733959
SNP_P4_9359_29849081	NC_021160.1	Ca_kabuli_chr01	29849081	AA	TT	1946733961
SNP_P4_9360_29849121	NC_021160.1	Ca_kabuli_chr01	29849121	TT	CC	1946733964
SNP_P4_9361_29849234	NC_021160.1	Ca_kabuli_chr01	29849234	GG	AA	1946733966
SNP_P4_9362_29849255	NC_021160.1	Ca_kabuli_chr01	29849255	GG	AA	1946733968
SNP_P4_9363_29849257	NC_021160.1	Ca_kabuli_chr01	29849257	GG	CC	1946733970
SNP_P4_9364_29849267	NC_021160.1	Ca_kabuli_chr01	29849267	AA	GG	1946733972
SNP_P4_9365_29849268	NC_021160.1	Ca_kabuli_chr01	29849268	CC	GG	1946733974
SNP_P4_9366_29849272	NC_021160.1	Ca_kabuli_chr01	29849272	CC	AA	1946733976
SNP_P4_9367_29849342	NC_021160.1	Ca_kabuli_chr01	29849342	CC	TT	1946733978
SNP_P4_9368_29849362	NC_021160.1	Ca_kabuli_chr01	29849362	CC	TT	1946733981
SNP_P4_9369_29849441	NC_021160.1	Ca_kabuli_chr01	29849441	CC	AA	1946733983
SNP_P4_9370_29849553	NC_021160.1	Ca_kabuli_chr01	29849553	GG	AA	1946733985
SNP_P4_9371_29849617	NC_021160.1	Ca_kabuli_chr01	29849617	AA	GG	1946733987
SNP_P4_9372_29849659	NC_021160.1	Ca_kabuli_chr01	29849659	GG	AA	1946733989
SNP_P4_9373_29850545	NC_021160.1	Ca_kabuli_chr01	29850545	GG	AA	1946733991
SNP_P4_9374_29850842	NC_021160.1	Ca_kabuli_chr01	29850842	AA	GG	1946733993
SNP_P4_9375_29852030	NC_021160.1	Ca_kabuli_chr01	29852030	TT	CC	1946733996
SNP_P4_9376_29852202	NC_021160.1	Ca_kabuli_chr01	29852202	CC	TT	1946733998
SNP_P4_9377_29852204	NC_021160.1	Ca_kabuli_chr01	29852204	TT	AA	1946734000
SNP_P4_9378_29852212	NC_021160.1	Ca_kabuli_chr01	29852212	AA	TT	1946734002
SNP_P4_9379_29852340	NC_021160.1	Ca_kabuli_chr01	29852340	TT	CC	1946734004
SNP_P4_9380_29852469	NC_021160.1	Ca_kabuli_chr01	29852469	TT	GG	1946734006
SNP_P4_9381_29852480	NC_021160.1	Ca_kabuli_chr01	29852480	AA	GG	1946734009
SNP_P4_9382_29852482	NC_021160.1	Ca_kabuli_chr01	29852482	AA	TT	1946734011
SNP_P4_9383_29852517	NC_021160.1	Ca_kabuli_chr01	29852517	TT	CC	1946734013

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_9385_29852947	NC_021160.1	Ca_kabuli_chr01	29852947	TT	AA	1946734017
SNP_P4_9386_29853003	NC_021160.1	Ca_kabuli_chr01	29853003	TT	AA	1946734019
SNP_P4_9388_29853554	NC_021160.1	Ca_kabuli_chr01	29853554	AA	CC	1946734021
SNP_P4_9390_29853836	NC_021160.1	Ca_kabuli_chr01	29853836	CC	AA	1946734023
SNP_P4_9391_29853930	NC_021160.1	Ca_kabuli_chr01	29853930	AA	CC	1946734025
SNP_P4_9392_29854080	NC_021160.1	Ca_kabuli_chr01	29854080	CC	AA	1946734027
SNP_P4_9393_29854109	NC_021160.1	Ca_kabuli_chr01	29854109	AA	GG	1946734029
SNP_P4_9394_29854145	NC_021160.1	Ca_kabuli_chr01	29854145	CC	AA	1946734031
SNP_P4_9395_29854146	NC_021160.1	Ca_kabuli_chr01	29854146	AA	CC	1946734033
SNP_P4_9396_29854356	NC_021160.1	Ca_kabuli_chr01	29854356	GG	AA	1946734035
SNP_P4_9397_29854408	NC_021160.1	Ca_kabuli_chr01	29854408	TT	AA	1946734037
SNP_P4_9398_29854484	NC_021160.1	Ca_kabuli_chr01	29854484	TT	AA	1946734039
SNP_P4_9399_29854489	NC_021160.1	Ca_kabuli_chr01	29854489	AA	GG	1946734041
SNP_P4_9400_29854493	NC_021160.1	Ca_kabuli_chr01	29854493	AA	GG	1946734043
SNP_P4_9401_29854515	NC_021160.1	Ca_kabuli_chr01	29854515	CC	TT	1946734045
SNP_P4_9402_29854518	NC_021160.1	Ca_kabuli_chr01	29854518	AA	TT	1946734047
SNP_P4_9403_29854835	NC_021160.1	Ca_kabuli_chr01	29854835	GG	TT	1946734049
SNP_P4_9404_29854972	NC_021160.1	Ca_kabuli_chr01	29854972	AA	CC	1946734051
SNP_P4_9405_29854973	NC_021160.1	Ca_kabuli_chr01	29854973	TT	AA	1946734053
SNP_P4_9406_29855106	NC_021160.1	Ca_kabuli_chr01	29855106	CC	GG	1946734055
SNP_P4_9407_29855124	NC_021160.1	Ca_kabuli_chr01	29855124	TT	CC	1946734057
SNP_P4_9408_29855139	NC_021160.1	Ca_kabuli_chr01	29855139	CC	TT	1946734059
SNP_P4_9409_29855200	NC_021160.1	Ca_kabuli_chr01	29855200	TT	GG	1946734061
SNP_P4_9410_29855353	NC_021160.1	Ca_kabuli_chr01	29855353	TT	CC	1946734063
SNP_P4_9411_29855477	NC_021160.1	Ca_kabuli_chr01	29855477	CC	TT	1946734065
SNP_P4_9412_29855594	NC_021160.1	Ca_kabuli_chr01	29855594	AA	GG	1946734067
SNP_P4_9413_29855951	NC_021160.1	Ca_kabuli_chr01	29855951	GG	CC	1946734069
SNP_P4_9414_29856030	NC_021160.1	Ca_kabuli_chr01	29856030	CC	TT	1946734070
SNP_P4_9415_29856064	NC_021160.1	Ca_kabuli_chr01	29856064	TT	GG	1946734072
SNP_P4_9416_29856202	NC_021160.1	Ca_kabuli_chr01	29856202	CC	GG	1946734074
SNP_P4_9417_29856247	NC_021160.1	Ca_kabuli_chr01	29856247	CC	TT	1946734076
SNP_P4_9418_29856319	NC_021160.1	Ca_kabuli_chr01	29856319	TT	GG	1946734078
SNP_P4_9419_29856405	NC_021160.1	Ca_kabuli_chr01	29856405	GG	AA	1946734080
SNP_P4_9420_29856439	NC_021160.1	Ca_kabuli_chr01	29856439	GG	AA	1946734082
SNP_P4_9422_29856845	NC_021160.1	Ca_kabuli_chr01	29856845	AA	TT	1946734084
SNP_P4_9423_29856986	NC_021160.1	Ca_kabuli_chr01	29856986	TT	CC	1946734086
SNP_P4_9424_29857084	NC_021160.1	Ca_kabuli_chr01	29857084	AA	TT	1946734088
SNP_P4_9425_29857164	NC_021160.1	Ca_kabuli_chr01	29857164	TT	GG	1946734090
SNP_P4_9426_29857237	NC_021160.1	Ca_kabuli_chr01	29857237	CC	TT	1946734092
SNP_P4_9427_29861761	NC_021160.1	Ca_kabuli_chr01	29861761	TT	CC	1946734094
SNP_P4_9428_29861763	NC_021160.1	Ca_kabuli_chr01	29861763	AA	CC	1946734096

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_9430_29862290	NC_021160.1	Ca_kabuli_chr01	29862290	AA	GG	1946734100
SNP_P4_9431_29863093	NC_021160.1	Ca_kabuli_chr01	29863093	AA	GG	1946734102
SNP_P4_9433_29882289	NC_021160.1	Ca_kabuli_chr01	29882289	GG	TT	1946734105
SNP_P4_9434_29882688	NC_021160.1	Ca_kabuli_chr01	29882688	TT	CC	1946734107
SNP_P4_9435_29882706	NC_021160.1	Ca_kabuli_chr01	29882706	TT	CC	1946734109
SNP_P4_9436_29889320	NC_021160.1	Ca_kabuli_chr01	29889320	AA	GG	1946734111
SNP_P4_9437_29889347	NC_021160.1	Ca_kabuli_chr01	29889347	CC	TT	1946734113
SNP_P4_9438_29932054	NC_021160.1	Ca_kabuli_chr01	29932054	TT	CC	1946734115
SNP_P4_9439_29932794	NC_021160.1	Ca_kabuli_chr01	29932794	CC	TT	1946734117
SNP_P4_9440_29932832	NC_021160.1	Ca_kabuli_chr01	29932832	GG	TT	1946734119
SNP_P4_9441_29935930	NC_021160.1	Ca_kabuli_chr01	29935930	GG	AA	1946734121
SNP_P4_9442_29936738	NC_021160.1	Ca_kabuli_chr01	29936738	TT	CC	1946734123
SNP_P4_9443_29936749	NC_021160.1	Ca_kabuli_chr01	29936749	TT	CC	1946734125
SNP_P4_9444_29940268	NC_021160.1	Ca_kabuli_chr01	29940268	TT	CC	1946734127
SNP_P4_9445_29946324	NC_021160.1	Ca_kabuli_chr01	29946324	TT	AA	1946734129
SNP_P4_9446_29975442	NC_021160.1	Ca_kabuli_chr01	29975442	GG	AA	1946734131
SNP_P4_9447_29976976	NC_021160.1	Ca_kabuli_chr01	29976976	TT	GG	1946734133
SNP_P4_9448_29977417	NC_021160.1	Ca_kabuli_chr01	29977417	AA	TT	1946734135
SNP_P4_9449_29977418	NC_021160.1	Ca_kabuli_chr01	29977418	TT	GG	1946734137
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SNP_P4_9451_29980732	NC_021160.1	Ca_kabuli_chr01	29980732	GG	AA	1946734141
SNP_P4_9452_29980806	NC_021160.1	Ca_kabuli_chr01	29980806	TT	AA	1946734143
SNP_P4_9453_29980983	NC_021160.1	Ca_kabuli_chr01	29980983	CC	TT	1946734145
SNP_P4_9454_29980993	NC_021160.1	Ca_kabuli_chr01	29980993	AA	GG	1946734147
SNP_P4_9455_29980996	NC_021160.1	Ca_kabuli_chr01	29980996	TT	AA	1946734149
SNP_P4_9456_29980998	NC_021160.1	Ca_kabuli_chr01	29980998	TT	AA	1946734151
SNP_P4_9457_29981001	NC_021160.1	Ca_kabuli_chr01	29981001	CC	TT	1946734153
SNP_P4_9458_29984997	NC_021160.1	Ca_kabuli_chr01	29984997	CC	TT	1946734155
SNP_P4_9459_29994039	NC_021160.1	Ca_kabuli_chr01	29994039	AA	GG	1946734157
SNP_P4_9460_29994040	NC_021160.1	Ca_kabuli_chr01	29994040	GG	TT	1946734159
SNP_P4_9461_29994082	NC_021160.1	Ca_kabuli_chr01	29994082	AA	GG	1946734161
SNP_P4_9462_29994364	NC_021160.1	Ca_kabuli_chr01	29994364	AA	GG	1946734162
SNP_P4_9463_29994369	NC_021160.1	Ca_kabuli_chr01	29994369	AA	GG	1946734164
SNP_P4_9465_29997145	NC_021160.1	Ca_kabuli_chr01	29997145	TT	GG	1946734166
SNP_P4_9466_29998078	NC_021160.1	Ca_kabuli_chr01	29998078	CC	TT	1946734168
SNP_P4_9467_29998081	NC_021160.1	Ca_kabuli_chr01	29998081	AA	GG	1946734170
SNP_P4_9468_29998111	NC_021160.1	Ca_kabuli_chr01	29998111	TT	CC	1946734172
SNP_P4_9469_29998315	NC_021160.1	Ca_kabuli_chr01	29998315	AA	TT	1946734174
SNP_P4_9470_30007768	NC_021160.1	Ca_kabuli_chr01	30007768	GG	TT	1946734176
SNP_P4_9471_30007976	NC_021160.1	Ca_kabuli_chr01	30007976	CC	TT	1946734178
SNP_P4_9472_30008062	NC_021160.1	Ca_kabuli_chr01	30008062	TT	GG	1946734180

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_9474_30035074	NC_021160.1	Ca_kabuli_chr01	30035074	TT	AA	1946734184
SNP_P4_9475_30036196	NC_021160.1	Ca_kabuli_chr01	30036196	AA	GG	1946734186
SNP_P4_9476_30037878	NC_021160.1	Ca_kabuli_chr01	30037878	CC	AA	1946734188
SNP_P4_9477_30037932	NC_021160.1	Ca_kabuli_chr01	30037932	AA	CC	1946734190
SNP_P4_9478_30037947	NC_021160.1	Ca_kabuli_chr01	30037947	CC	TT	1946734192
SNP_P4_9479_30038030	NC_021160.1	Ca_kabuli_chr01	30038030	AA	GG	1946734195
SNP_P4_9480_30038227	NC_021160.1	Ca_kabuli_chr01	30038227	AA	GG	1946734197
SNP_P4_9481_30038463	NC_021160.1	Ca_kabuli_chr01	30038463	TT	CC	1946734200
SNP_P4_9482_30038464	NC_021160.1	Ca_kabuli_chr01	30038464	AA	CC	1946734202
SNP_P4_9483_30038499	NC_021160.1	Ca_kabuli_chr01	30038499	AA	TT	1946734205
SNP_P4_9484_30038540	NC_021160.1	Ca_kabuli_chr01	30038540	AA	GG	1946734208
SNP_P4_9485_30044869	NC_021160.1	Ca_kabuli_chr01	30044869	AA	GG	1946734210
SNP_P4_9486_30044870	NC_021160.1	Ca_kabuli_chr01	30044870	AA	GG	1946734212
SNP_P4_9487_30048193	NC_021160.1	Ca_kabuli_chr01	30048193	AA	GG	1946734214
SNP_P4_9488_30049986	NC_021160.1	Ca_kabuli_chr01	30049986	TT	AA	1946734216
SNP_P4_9489_30051399	NC_021160.1	Ca_kabuli_chr01	30051399	AA	TT	1946734218
SNP_P4_9490_30059882	NC_021160.1	Ca_kabuli_chr01	30059882	CC	TT	1946734220
SNP_P4_9491_30061016	NC_021160.1	Ca_kabuli_chr01	30061016	GG	AA	1946734222
SNP_P4_9492_30083519	NC_021160.1	Ca_kabuli_chr01	30083519	CC	AA	1946734224
SNP_P4_9493_30091502	NC_021160.1	Ca_kabuli_chr01	30091502	CC	GG	1946734226
SNP_P4_9494_30092767	NC_021160.1	Ca_kabuli_chr01	30092767	TT	CC	1946734228
SNP_P4_9495_30100716	NC_021160.1	Ca_kabuli_chr01	30100716	CC	TT	1946734230
SNP_P4_9496_30100982	NC_021160.1	Ca_kabuli_chr01	30100982	GG	AA	1946734232
SNP_P4_9497_30106294	NC_021160.1	Ca_kabuli_chr01	30106294	CC	AA	1946734233
SNP_P4_9498_30109105	NC_021160.1	Ca_kabuli_chr01	30109105	GG	TT	1946734234
SNP_P4_9499_30111296	NC_021160.1	Ca_kabuli_chr01	30111296	GG	AA	1946734235
SNP_P4_9500_30111304	NC_021160.1	Ca_kabuli_chr01	30111304	AA	CC	1946734236
SNP_P4_9501_30111306	NC_021160.1	Ca_kabuli_chr01	30111306	TT	GG	1946734237
SNP_P4_9502_30111332	NC_021160.1	Ca_kabuli_chr01	30111332	TT	CC	1946734238
SNP_P4_9503_30111341	NC_021160.1	Ca_kabuli_chr01	30111341	AA	GG	1946734239
SNP_P4_9504_30111344	NC_021160.1	Ca_kabuli_chr01	30111344	CC	TT	1946734240
SNP_P4_9505_30111359	NC_021160.1	Ca_kabuli_chr01	30111359	TT	GG	1946734242
SNP_P4_9507_30111416	NC_021160.1	Ca_kabuli_chr01	30111416	TT	CC	1946734244
SNP_P4_9508_30111434	NC_021160.1	Ca_kabuli_chr01	30111434	AA	GG	1946734247
SNP_P4_9509_30111437	NC_021160.1	Ca_kabuli_chr01	30111437	AA	GG	1946734249
SNP_P4_9510_30111806	NC_021160.1	Ca_kabuli_chr01	30111806	TT	AA	1946734251
SNP_P4_9511_30117305	NC_021160.1	Ca_kabuli_chr01	30117305	GG	TT	1946734253
SNP_P4_9512_30117309	NC_021160.1	Ca_kabuli_chr01	30117309	AA	GG	1946734255
SNP_P4_9514_30117613	NC_021160.1	Ca_kabuli_chr01	30117613	AA	GG	1946734257
SNP_P4_9515_30117656	NC_021160.1	Ca_kabuli_chr01	30117656	CC	TT	1946734259
SNP_P4_9516_30117842	NC_021160.1	Ca_kabuli_chr01	30117842	AA	TT	1946734261

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_9519_30129826	NC_021160.1	Ca_kabuli_chr01	30129826	TT	CC	1946734265
SNP_P4_9520_30133778	NC_021160.1	Ca_kabuli_chr01	30133778	TT	AA	1946734267
SNP_P4_9521_30134586	NC_021160.1	Ca_kabuli_chr01	30134586	TT	CC	1946734269
SNP_P4_9522_30135836	NC_021160.1	Ca_kabuli_chr01	30135836	TT	CC	1946734271
SNP_P4_9523_30140424	NC_021160.1	Ca_kabuli_chr01	30140424	TT	GG	1946734273
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SNP_P4_9527_30146807	NC_021160.1	Ca_kabuli_chr01	30146807	AA	TT	1946734280
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SNP_P4_9530_30156814	NC_021160.1	Ca_kabuli_chr01	30156814	AA	TT	1946734284
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SNP_P4_9537_30194282	NC_021160.1	Ca_kabuli_chr01	30194282	GG	TT	1946734297
SNP_P4_9538_30194296	NC_021160.1	Ca_kabuli_chr01	30194296	AA	GG	1946734299
SNP_P4_9540_30196447	NC_021160.1	Ca_kabuli_chr01	30196447	CC	GG	1946734301
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SNP_P4_9550_30236405	NC_021160.1	Ca_kabuli_chr01	30236405	AA	CC	1946734317
SNP_P4_9551_30238670	NC_021160.1	Ca_kabuli_chr01	30238670	GG	AA	1946734319
SNP_P4_9552_30243171	NC_021160.1	Ca_kabuli_chr01	30243171	AA	CC	1946734321
SNP_P4_9554_30243639	NC_021160.1	Ca_kabuli_chr01	30243639	AA	TT	1946734323
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SNP_P4_9556_30244925	NC_021160.1	Ca_kabuli_chr01	30244925	CC	TT	1946734327
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SNP_P4_9558_30250041	NC_021160.1	Ca_kabuli_chr01	30250041	CC	GG	1946734331
SNP_P4_9559_30250072	NC_021160.1	Ca_kabuli_chr01	30250072	AA	CC	1946734333
SNP_P4_9560_30255590	NC_021160.1	Ca_kabuli_chr01	30255590	AA	CC	1946734335
SNP_P4_9561_30255705	NC_021160.1	Ca_kabuli_chr01	30255705	GG	TT	1946734337
SNP_P4_9562_30262840	NC_021160.1	Ca_kabuli_chr01	30262840	GG	TT	1946734339
SNP_P4_9563_30262875	NC_021160.1	Ca_kabuli_chr01	30262875	AA	GG	1946734341
SNP_P4_9564_30263146	NC_021160.1	Ca_kabuli_chr01	30263146	GG	TT	1946734343

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_9567_30263221	NC_021160.1	Ca_kabuli_chr01	30263221	GG	AA	1946734348
SNP_P4_9568_30263227	NC_021160.1	Ca_kabuli_chr01	30263227	GG	TT	1946734350
SNP_P4_9569_30263240	NC_021160.1	Ca_kabuli_chr01	30263240	CC	TT	1946734352
SNP_P4_9570_30263244	NC_021160.1	Ca_kabuli_chr01	30263244	TT	CC	1946734354
SNP_P4_9571_30263245	NC_021160.1	Ca_kabuli_chr01	30263245	AA	CC	1946734356
SNP_P4_9572_30263255	NC_021160.1	Ca_kabuli_chr01	30263255	TT	CC	1946734358
SNP_P4_9573_30263274	NC_021160.1	Ca_kabuli_chr01	30263274	AA	CC	1946734360
SNP_P4_9574_30264021	NC_021160.1	Ca_kabuli_chr01	30264021	GG	AA	1946734362
SNP_P4_9575_30264023	NC_021160.1	Ca_kabuli_chr01	30264023	CC	AA	1946734364
SNP_P4_9576_30264473	NC_021160.1	Ca_kabuli_chr01	30264473	TT	AA	1946734366
SNP_P4_9577_30264672	NC_021160.1	Ca_kabuli_chr01	30264672	AA	TT	1946734368
SNP_P4_9578_30277390	NC_021160.1	Ca_kabuli_chr01	30277390	AA	CC	1946734370
SNP_P4_9579_30280031	NC_021160.1	Ca_kabuli_chr01	30280031	CC	TT	1946734372
SNP_P4_9580_30280260	NC_021160.1	Ca_kabuli_chr01	30280260	CC	TT	1946734374
SNP_P4_9581_30280504	NC_021160.1	Ca_kabuli_chr01	30280504	GG	AA	1946734376
SNP_P4_9582_30284934	NC_021160.1	Ca_kabuli_chr01	30284934	AA	TT	1946734379
SNP_P4_9583_30285871	NC_021160.1	Ca_kabuli_chr01	30285871	GG	AA	1946734381
SNP_P4_9585_30292036	NC_021160.1	Ca_kabuli_chr01	30292036	AA	TT	1946734383
SNP_P4_9586_30292041	NC_021160.1	Ca_kabuli_chr01	30292041	TT	CC	1946734385
SNP_P4_9587_30292045	NC_021160.1	Ca_kabuli_chr01	30292045	TT	CC	1946734387
SNP_P4_9588_30295024	NC_021160.1	Ca_kabuli_chr01	30295024	TT	AA	1946734389
SNP_P4_9589_30333912	NC_021160.1	Ca_kabuli_chr01	30333912	GG	AA	1946734391
SNP_P4_9590_30334738	NC_021160.1	Ca_kabuli_chr01	30334738	CC	TT	1946734393
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SNP_P4_9594_30423668	NC_021160.1	Ca_kabuli_chr01	30423668	AA	GG	1946734397
SNP_P4_9595_30424150	NC_021160.1	Ca_kabuli_chr01	30424150	TT	CC	1946734399
SNP_P4_9596_30424211	NC_021160.1	Ca_kabuli_chr01	30424211	GG	AA	1946734401
SNP_P4_9597_30424222	NC_021160.1	Ca_kabuli_chr01	30424222	GG	AA	1946734403
SNP_P4_9598_30429541	NC_021160.1	Ca_kabuli_chr01	30429541	TT	CC	1946734405
SNP_P4_9599_30429549	NC_021160.1	Ca_kabuli_chr01	30429549	AA	TT	1946734407
SNP_P4_9600_30432262	NC_021160.1	Ca_kabuli_chr01	30432262	TT	AA	1946734409
SNP_P4_9601_30450546	NC_021160.1	Ca_kabuli_chr01	30450546	AA	CC	1946734411
SNP_P4_9602_30450547	NC_021160.1	Ca_kabuli_chr01	30450547	CC	AA	1946734413
SNP_P4_9604_30452726	NC_021160.1	Ca_kabuli_chr01	30452726	GG	AA	1946734415
SNP_P4_9605_30452790	NC_021160.1	Ca_kabuli_chr01	30452790	CC	TT	1946734417
SNP_P4_9606_30452809	NC_021160.1	Ca_kabuli_chr01	30452809	AA	GG	1946734419
SNP_P4_9608_30460795	NC_021160.1	Ca_kabuli_chr01	30460795	AA	GG	1946734421
SNP_P4_9609_30460857	NC_021160.1	Ca_kabuli_chr01	30460857	TT	CC	1946734423
SNP_P4_9610_30460879	NC_021160.1	Ca_kabuli_chr01	30460879	TT	CC	1946734425
SNP_P4_9611_30460891	NC_021160.1	Ca_kabuli_chr01	30460891	GG	TT	1946734427

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_9614_30460953	NC_021160.1	Ca_kabuli_chr01	30460953	AA	GG	1946734432
SNP_P4_9615_30461178	NC_021160.1	Ca_kabuli_chr01	30461178	GG	AA	1946734434
SNP_P4_9616_30461207	NC_021160.1	Ca_kabuli_chr01	30461207	TT	CC	1946734436
SNP_P4_9617_30461279	NC_021160.1	Ca_kabuli_chr01	30461279	GG	AA	1946734438
SNP_P4_9618_30461292	NC_021160.1	Ca_kabuli_chr01	30461292	AA	TT	1946734440
SNP_P4_9619_30461297	NC_021160.1	Ca_kabuli_chr01	30461297	GG	AA	1946734442
SNP_P4_9620_30461336	NC_021160.1	Ca_kabuli_chr01	30461336	CC	TT	1946734444
SNP_P4_9621_30461380	NC_021160.1	Ca_kabuli_chr01	30461380	AA	GG	1946734446
SNP_P4_9623_30475446	NC_021160.1	Ca_kabuli_chr01	30475446	AA	GG	1946734448
SNP_P4_9624_30475485	NC_021160.1	Ca_kabuli_chr01	30475485	AA	GG	1946734450
SNP_P4_9625_30475502	NC_021160.1	Ca_kabuli_chr01	30475502	CC	TT	1946734452
SNP_P4_9627_30475581	NC_021160.1	Ca_kabuli_chr01	30475581	TT	AA	1946734454
SNP_P4_9628_30488960	NC_021160.1	Ca_kabuli_chr01	30488960	GG	AA	1946734456
SNP_P4_9629_30508804	NC_021160.1	Ca_kabuli_chr01	30508804	AA	TT	1946734458
SNP_P4_9630_30508821	NC_021160.1	Ca_kabuli_chr01	30508821	AA	TT	1946734460
SNP_P4_9631_30509164	NC_021160.1	Ca_kabuli_chr01	30509164	AA	CC	1946734462
SNP_P4_9632_30532267	NC_021160.1	Ca_kabuli_chr01	30532267	AA	GG	1946734464
SNP_P4_9633_30532902	NC_021160.1	Ca_kabuli_chr01	30532902	TT	GG	1946734466
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SNP_P4_9635_30582631	NC_021160.1	Ca_kabuli_chr01	30582631	TT	GG	1946734470
SNP_P4_9636_30583309	NC_021160.1	Ca_kabuli_chr01	30583309	CC	TT	1946734472
SNP_P4_9637_30603992	NC_021160.1	Ca_kabuli_chr01	30603992	AA	TT	1946734474
SNP_P4_9638_30621386	NC_021160.1	Ca_kabuli_chr01	30621386	TT	GG	1946734476
SNP_P4_9639_30624943	NC_021160.1	Ca_kabuli_chr01	30624943	GG	AA	1946734478
SNP_P4_9641_30646785	NC_021160.1	Ca_kabuli_chr01	30646785	CC	AA	1946734480
SNP_P4_9642_30658402	NC_021160.1	Ca_kabuli_chr01	30658402	TT	GG	1946734482
SNP_P4_9644_30690964	NC_021160.1	Ca_kabuli_chr01	30690964	TT	GG	1946734484
SNP_P4_9645_30697948	NC_021160.1	Ca_kabuli_chr01	30697948	AA	GG	1946734486
SNP_P4_9646_30697968	NC_021160.1	Ca_kabuli_chr01	30697968	CC	TT	1946734488
SNP_P4_9647_30725547	NC_021160.1	Ca_kabuli_chr01	30725547	TT	GG	1946734490
SNP_P4_9648_30738240	NC_021160.1	Ca_kabuli_chr01	30738240	AA	GG	1946734492
SNP_P4_9649_30738244	NC_021160.1	Ca_kabuli_chr01	30738244	AA	TT	1946734494
SNP_P4_9650_30738524	NC_021160.1	Ca_kabuli_chr01	30738524	CC	AA	1946734496
SNP_P4_9651_30740232	NC_021160.1	Ca_kabuli_chr01	30740232	GG	TT	1946734498
SNP_P4_9652_30740325	NC_021160.1	Ca_kabuli_chr01	30740325	CC	AA	1946734500
SNP_P4_9653_30740326	NC_021160.1	Ca_kabuli_chr01	30740326	GG	CC	1946734502
SNP_P4_9654_30740444	NC_021160.1	Ca_kabuli_chr01	30740444	TT	CC	1946734504
SNP_P4_9655_30740502	NC_021160.1	Ca_kabuli_chr01	30740502	AA	TT	1946734506
SNP_P4_9656_30740835	NC_021160.1	Ca_kabuli_chr01	30740835	GG	TT	1946734508
SNP_P4_9657_30740872	NC_021160.1	Ca_kabuli_chr01	30740872	CC	TT	1946734510

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_9660_30745342	NC_021160.1	Ca_kabuli_chr01	30745342	GG	AA	1946734516
SNP_P4_9661_30745398	NC_021160.1	Ca_kabuli_chr01	30745398	TT	CC	1946734518
SNP_P4_9662_30745473	NC_021160.1	Ca_kabuli_chr01	30745473	GG	CC	1946734520
SNP_P4_9664_30745684	NC_021160.1	Ca_kabuli_chr01	30745684	TT	GG	1946734522
SNP_P4_9666_30756175	NC_021160.1	Ca_kabuli_chr01	30756175	TT	CC	1946734524
SNP_P4_9667_30756178	NC_021160.1	Ca_kabuli_chr01	30756178	GG	TT	1946734526
SNP_P4_9668_30762238	NC_021160.1	Ca_kabuli_chr01	30762238	CC	TT	1946734528
SNP_P4_9669_30762300	NC_021160.1	Ca_kabuli_chr01	30762300	TT	AA	1946734530
SNP_P4_9670_30762305	NC_021160.1	Ca_kabuli_chr01	30762305	TT	AA	1946734532
SNP_P4_9671_30762315	NC_021160.1	Ca_kabuli_chr01	30762315	GG	AA	1946734534
SNP_P4_9672_30762343	NC_021160.1	Ca_kabuli_chr01	30762343	TT	CC	1946734535
SNP_P4_9673_30762370	NC_021160.1	Ca_kabuli_chr01	30762370	CC	TT	1946734537
SNP_P4_9674_30762386	NC_021160.1	Ca_kabuli_chr01	30762386	GG	AA	1946734539
SNP_P4_9675_30762418	NC_021160.1	Ca_kabuli_chr01	30762418	AA	GG	1946734541
SNP_P4_9676_30762570	NC_021160.1	Ca_kabuli_chr01	30762570	TT	CC	1946734543
SNP_P4_9677_30762645	NC_021160.1	Ca_kabuli_chr01	30762645	TT	GG	1946734545
SNP_P4_9678_30762652	NC_021160.1	Ca_kabuli_chr01	30762652	AA	GG	1946734547
SNP_P4_9679_30762653	NC_021160.1	Ca_kabuli_chr01	30762653	TT	CC	1946734549
SNP_P4_9680_30762737	NC_021160.1	Ca_kabuli_chr01	30762737	AA	GG	1946734551
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SNP_P4_9682_30762761	NC_021160.1	Ca_kabuli_chr01	30762761	GG	TT	1946734555
SNP_P4_9683_30762791	NC_021160.1	Ca_kabuli_chr01	30762791	CC	AA	1946734557
SNP_P4_9684_30765017	NC_021160.1	Ca_kabuli_chr01	30765017	GG	CC	1946734559
SNP_P4_9685_30765039	NC_021160.1	Ca_kabuli_chr01	30765039	CC	TT	1946734561
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SNP_P4_9687_30766108	NC_021160.1	Ca_kabuli_chr01	30766108	AA	CC	1946734565
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SNP_P4_9690_30767754	NC_021160.1	Ca_kabuli_chr01	30767754	AA	TT	1946734571
SNP_P4_9691_30767813	NC_021160.1	Ca_kabuli_chr01	30767813	CC	TT	1946734573
SNP_P4_9693_30769354	NC_021160.1	Ca_kabuli_chr01	30769354	TT	CC	1946734575
SNP_P4_9694_30769844	NC_021160.1	Ca_kabuli_chr01	30769844	GG	AA	1946734577
SNP_P4_9696_30769981	NC_021160.1	Ca_kabuli_chr01	30769981	AA	TT	1946734579
SNP_P4_9697_30770017	NC_021160.1	Ca_kabuli_chr01	30770017	TT	AA	1946734581
SNP_P4_9698_30770137	NC_021160.1	Ca_kabuli_chr01	30770137	CC	TT	1946734583
SNP_P4_9700_30770392	NC_021160.1	Ca_kabuli_chr01	30770392	GG	AA	1946734585
SNP_P4_9701_30770958	NC_021160.1	Ca_kabuli_chr01	30770958	CC	GG	1946734587
SNP_P4_9702_30771037	NC_021160.1	Ca_kabuli_chr01	30771037	GG	TT	1946734589
SNP_P4_9703_30771411	NC_021160.1	Ca_kabuli_chr01	30771411	GG	AA	1946734591
SNP_P4_9704_30786187	NC_021160.1	Ca_kabuli_chr01	30786187	TT	GG	1946734593

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_9706_30786220	NC_021160.1	Ca_kabuli_chr01	30786220	AA	GG	1946734597
SNP_P4_9707_30787378	NC_021160.1	Ca_kabuli_chr01	30787378	AA	GG	1946734599
SNP_P4_9708_30788870	NC_021160.1	Ca_kabuli_chr01	30788870	AA	TT	1946734601
SNP_P4_9710_30789736	NC_021160.1	Ca_kabuli_chr01	30789736	GG	AA	1946734603
SNP_P4_9712_30793321	NC_021160.1	Ca_kabuli_chr01	30793321	AA	CC	1946734604
SNP_P4_9713_30797797	NC_021160.1	Ca_kabuli_chr01	30797797	TT	CC	1946734606
SNP_P4_9714_30803194	NC_021160.1	Ca_kabuli_chr01	30803194	TT	GG	1946734608
SNP_P4_9715_30803690	NC_021160.1	Ca_kabuli_chr01	30803690	TT	CC	1946734610
SNP_P4_9716_30804101	NC_021160.1	Ca_kabuli_chr01	30804101	CC	TT	1946734612
SNP_P4_9717_30804680	NC_021160.1	Ca_kabuli_chr01	30804680	CC	AA	1946734614
SNP_P4_9718_30807355	NC_021160.1	Ca_kabuli_chr01	30807355	CC	AA	1946734616
SNP_P4_9720_30808058	NC_021160.1	Ca_kabuli_chr01	30808058	AA	CC	1946734618
SNP_P4_9721_30808062	NC_021160.1	Ca_kabuli_chr01	30808062	AA	TT	1946734620
SNP_P4_9722_30820541	NC_021160.1	Ca_kabuli_chr01	30820541	TT	CC	1946734622
SNP_P4_9723_30821740	NC_021160.1	Ca_kabuli_chr01	30821740	CC	TT	1946734624
SNP_P4_9724_30823413	NC_021160.1	Ca_kabuli_chr01	30823413	AA	GG	1946734626
SNP_P4_9725_30823490	NC_021160.1	Ca_kabuli_chr01	30823490	GG	AA	1946734628
SNP_P4_9726_30823653	NC_021160.1	Ca_kabuli_chr01	30823653	GG	AA	1946734630
SNP_P4_9727_30824547	NC_021160.1	Ca_kabuli_chr01	30824547	CC	GG	1946734632
SNP_P4_9728_30827678	NC_021160.1	Ca_kabuli_chr01	30827678	GG	AA	1946734634
SNP_P4_9729_30828226	NC_021160.1	Ca_kabuli_chr01	30828226	GG	TT	1946734635
SNP_P4_9730_30828880	NC_021160.1	Ca_kabuli_chr01	30828880	TT	CC	1946734637
SNP_P4_9731_30830953	NC_021160.1	Ca_kabuli_chr01	30830953	AA	GG	1946734639
SNP_P4_9732_30831400	NC_021160.1	Ca_kabuli_chr01	30831400	TT	CC	1946734641
SNP_P4_9733_30832417	NC_021160.1	Ca_kabuli_chr01	30832417	CC	AA	1946734643
SNP_P4_9734_30832451	NC_021160.1	Ca_kabuli_chr01	30832451	AA	GG	1946734645
SNP_P4_9735_30835562	NC_021160.1	Ca_kabuli_chr01	30835562	TT	CC	1946734647
SNP_P4_9736_30843818	NC_021160.1	Ca_kabuli_chr01	30843818	GG	TT	1946734649
SNP_P4_9738_30844305	NC_021160.1	Ca_kabuli_chr01	30844305	AA	TT	1946734651
SNP_P4_9739_30847395	NC_021160.1	Ca_kabuli_chr01	30847395	GG	AA	1946734653
SNP_P4_9740_30848936	NC_021160.1	Ca_kabuli_chr01	30848936	TT	AA	1946734655
SNP_P4_9741_30851335	NC_021160.1	Ca_kabuli_chr01	30851335	TT	AA	1946734657
SNP_P4_9743_30854129	NC_021160.1	Ca_kabuli_chr01	30854129	TT	AA	1946734659
SNP_P4_9744_30854548	NC_021160.1	Ca_kabuli_chr01	30854548	GG	CC	1946734661
SNP_P4_9745_30863196	NC_021160.1	Ca_kabuli_chr01	30863196	TT	GG	1946734663
SNP_P4_9746_30863253	NC_021160.1	Ca_kabuli_chr01	30863253	AA	GG	1946734665
SNP_P4_9747_30864973	NC_021160.1	Ca_kabuli_chr01	30864973	GG	AA	1946734667
SNP_P4_9748_30870154	NC_021160.1	Ca_kabuli_chr01	30870154	AA	GG	1946734669
SNP_P4_9749_30876773	NC_021160.1	Ca_kabuli_chr01	30876773	AA	TT	1946734671
SNP_P4_9750_30887888	NC_021160.1	Ca_kabuli_chr01	30887888	CC	TT	1946734673
SNP_P4_9751_30887904	NC_021160.1	Ca_kabuli_chr01	30887904	AA	GG	1946734675

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_9753_30888977	NC_021160.1	Ca_kabuli_chr01	30888977	AA	TT	1946734678
SNP_P4_9754_30889096	NC_021160.1	Ca_kabuli_chr01	30889096	GG	CC	1946734680
SNP_P4_9755_30889303	NC_021160.1	Ca_kabuli_chr01	30889303	AA	GG	1946734682
SNP_P4_9756_30889310	NC_021160.1	Ca_kabuli_chr01	30889310	AA	GG	1946734684
SNP_P4_9757_30889327	NC_021160.1	Ca_kabuli_chr01	30889327	TT	CC	1946734686
SNP_P4_9758_30889349	NC_021160.1	Ca_kabuli_chr01	30889349	AA	GG	1946734688
SNP_P4_9759_30889430	NC_021160.1	Ca_kabuli_chr01	30889430	AA	CC	1946734690
SNP_P4_9760_30889460	NC_021160.1	Ca_kabuli_chr01	30889460	CC	AA	1946734692
SNP_P4_9761_30889823	NC_021160.1	Ca_kabuli_chr01	30889823	CC	TT	1946734694
SNP_P4_9762_30889869	NC_021160.1	Ca_kabuli_chr01	30889869	GG	AA	1946734695
SNP_P4_9763_30890234	NC_021160.1	Ca_kabuli_chr01	30890234	AA	CC	1946734697
SNP_P4_9764_30890247	NC_021160.1	Ca_kabuli_chr01	30890247	AA	GG	1946734699
SNP_P4_9765_30896436	NC_021160.1	Ca_kabuli_chr01	30896436	GG	AA	1946734701
SNP_P4_9766_30908344	NC_021160.1	Ca_kabuli_chr01	30908344	AA	GG	1946734703
SNP_P4_9767_30914207	NC_021160.1	Ca_kabuli_chr01	30914207	TT	CC	1946734705
SNP_P4_9768_30923952	NC_021160.1	Ca_kabuli_chr01	30923952	TT	CC	1946734707
SNP_P4_9769_30926430	NC_021160.1	Ca_kabuli_chr01	30926430	CC	TT	1946734709
SNP_P4_9770_30926882	NC_021160.1	Ca_kabuli_chr01	30926882	CC	GG	1946734711
SNP_P4_9771_30929726	NC_021160.1	Ca_kabuli_chr01	30929726	AA	CC	1946734713
SNP_P4_9772_30930835	NC_021160.1	Ca_kabuli_chr01	30930835	GG	AA	1946734715
SNP_P4_9773_30933826	NC_021160.1	Ca_kabuli_chr01	30933826	TT	AA	1946734717
SNP_P4_9774_30934308	NC_021160.1	Ca_kabuli_chr01	30934308	AA	GG	1946734719
SNP_P4_9775_30934372	NC_021160.1	Ca_kabuli_chr01	30934372	GG	TT	1946734721
SNP_P4_9776_30934390	NC_021160.1	Ca_kabuli_chr01	30934390	AA	GG	1946734723
SNP_P4_9777_30934419	NC_021160.1	Ca_kabuli_chr01	30934419	AA	GG	1946734725
SNP_P4_9778_30934440	NC_021160.1	Ca_kabuli_chr01	30934440	AA	CC	1946734727
SNP_P4_9779_30934451	NC_021160.1	Ca_kabuli_chr01	30934451	AA	GG	1946734729
SNP_P4_9780_30934459	NC_021160.1	Ca_kabuli_chr01	30934459	CC	TT	1946734731
SNP_P4_9781_30934491	NC_021160.1	Ca_kabuli_chr01	30934491	GG	TT	1946734733
SNP_P4_9782_30934537	NC_021160.1	Ca_kabuli_chr01	30934537	CC	TT	1946734735
SNP_P4_9783_30938086	NC_021160.1	Ca_kabuli_chr01	30938086	AA	CC	1946734737
SNP_P4_9784_30938094	NC_021160.1	Ca_kabuli_chr01	30938094	TT	CC	1946734739
SNP_P4_9785_30938106	NC_021160.1	Ca_kabuli_chr01	30938106	TT	CC	1946734741
SNP_P4_9786_30938125	NC_021160.1	Ca_kabuli_chr01	30938125	GG	TT	1946734743
SNP_P4_9787_30938197	NC_021160.1	Ca_kabuli_chr01	30938197	AA	GG	1946734745
SNP_P4_9788_30938199	NC_021160.1	Ca_kabuli_chr01	30938199	TT	CC	1946734746
SNP_P4_9789_30938210	NC_021160.1	Ca_kabuli_chr01	30938210	TT	CC	1946734748
SNP_P4_9790_30938407	NC_021160.1	Ca_kabuli_chr01	30938407	GG	CC	1946734751
SNP_P4_9791_30938426	NC_021160.1	Ca_kabuli_chr01	30938426	AA	TT	1946734753
SNP_P4_9792_30938452	NC_021160.1	Ca_kabuli_chr01	30938452	GG	AA	1946734755
SNP_P4_9793_30938529	NC_021160.1	Ca_kabuli_chr01	30938529	GG	AA	1946734757

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_9796_30939509	NC_021160.1	Ca_kabuli_chr01	30939509	TT	GG	1946734761
SNP_P4_9797_30942347	NC_021160.1	Ca_kabuli_chr01	30942347	AA	GG	1946734763
SNP_P4_9798_30944237	NC_021160.1	Ca_kabuli_chr01	30944237	AA	CC	1946734765
SNP_P4_9799_30945737	NC_021160.1	Ca_kabuli_chr01	30945737	AA	GG	1946734767
SNP_P4_9800_30950036	NC_021160.1	Ca_kabuli_chr01	30950036	CC	TT	1946734769
SNP_P4_9801_30956312	NC_021160.1	Ca_kabuli_chr01	30956312	CC	TT	1946734771
SNP_P4_9802_30956335	NC_021160.1	Ca_kabuli_chr01	30956335	GG	TT	1946734773
SNP_P4_9803_30956466	NC_021160.1	Ca_kabuli_chr01	30956466	AA	CC	1946734775
SNP_P4_9804_30956643	NC_021160.1	Ca_kabuli_chr01	30956643	TT	CC	1946734777
SNP_P4_9805_30956840	NC_021160.1	Ca_kabuli_chr01	30956840	AA	GG	1946734779
SNP_P4_9806_30958852	NC_021160.1	Ca_kabuli_chr01	30958852	GG	AA	1946734781
SNP_P4_9807_30960535	NC_021160.1	Ca_kabuli_chr01	30960535	AA	CC	1946734783
SNP_P4_9808_30963312	NC_021160.1	Ca_kabuli_chr01	30963312	TT	GG	1946734785
SNP_P4_9809_30963314	NC_021160.1	Ca_kabuli_chr01	30963314	GG	TT	1946734787
SNP_P4_9810_30966911	NC_021160.1	Ca_kabuli_chr01	30966911	GG	TT	1946734789
SNP_P4_9811_30968577	NC_021160.1	Ca_kabuli_chr01	30968577	AA	GG	1946734791
SNP_P4_9812_30969311	NC_021160.1	Ca_kabuli_chr01	30969311	CC	TT	1946734792
SNP_P4_9813_30969324	NC_021160.1	Ca_kabuli_chr01	30969324	TT	GG	1946734794
SNP_P4_9815_30969954	NC_021160.1	Ca_kabuli_chr01	30969954	AA	GG	1946734796
SNP_P4_9816_30969961	NC_021160.1	Ca_kabuli_chr01	30969961	GG	AA	1946734798
SNP_P4_9817_30969966	NC_021160.1	Ca_kabuli_chr01	30969966	GG	TT	1946734800
SNP_P4_9818_30970205	NC_021160.1	Ca_kabuli_chr01	30970205	AA	GG	1946734802
SNP_P4_9819_30970277	NC_021160.1	Ca_kabuli_chr01	30970277	AA	GG	1946734804
SNP_P4_9820_30985187	NC_021160.1	Ca_kabuli_chr01	30985187	AA	GG	1946734806
SNP_P4_9821_30986982	NC_021160.1	Ca_kabuli_chr01	30986982	TT	AA	1946734808
SNP_P4_9822_30987798	NC_021160.1	Ca_kabuli_chr01	30987798	CC	TT	1946734810
SNP_P4_9823_30989437	NC_021160.1	Ca_kabuli_chr01	30989437	TT	CC	1946734812
SNP_P4_9824_30990845	NC_021160.1	Ca_kabuli_chr01	30990845	GG	TT	1946734814
SNP_P4_9827_31003497	NC_021160.1	Ca_kabuli_chr01	31003497	TT	CC	1946734816
SNP_P4_9830_31013722	NC_021160.1	Ca_kabuli_chr01	31013722	AA	GG	1946734818
SNP_P4_9831_31013818	NC_021160.1	Ca_kabuli_chr01	31013818	AA	GG	1946734820
SNP_P4_9833_31015934	NC_021160.1	Ca_kabuli_chr01	31015934	AA	TT	1946734822
SNP_P4_9834_31017850	NC_021160.1	Ca_kabuli_chr01	31017850	CC	TT	1946734824
SNP_P4_9835_31017944	NC_021160.1	Ca_kabuli_chr01	31017944	CC	AA	1946734826
SNP_P4_9836_31019739	NC_021160.1	Ca_kabuli_chr01	31019739	AA	GG	1946734828
SNP_P4_9837_31022049	NC_021160.1	Ca_kabuli_chr01	31022049	GG	AA	1946734830
SNP_P4_9838_31022078	NC_021160.1	Ca_kabuli_chr01	31022078	TT	CC	1946734831
SNP_P4_9839_31022085	NC_021160.1	Ca_kabuli_chr01	31022085	AA	GG	1946734833
SNP_P4_9840_31022122	NC_021160.1	Ca_kabuli_chr01	31022122	TT	CC	1946734835
SNP_P4_9841_31022203	NC_021160.1	Ca_kabuli_chr01	31022203	AA	GG	1946734837
SNP_P4_9842_31022235	NC_021160.1	Ca_kabuli_chr01	31022235	TT	CC	1946734839

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_9844_31022254	NC_021160.1	Ca_kabuli_chr01	31022254	CC	TT	1946734843
SNP_P4_9845_31022266	NC_021160.1	Ca_kabuli_chr01	31022266	AA	GG	1946734845
SNP_P4_9846_31022299	NC_021160.1	Ca_kabuli_chr01	31022299	TT	AA	1946734847
SNP_P4_9847_31022314	NC_021160.1	Ca_kabuli_chr01	31022314	AA	CC	1946734849
SNP_P4_9850_31029297	NC_021160.1	Ca_kabuli_chr01	31029297	CC	TT	1946734851
SNP_P4_9851_31044719	NC_021160.1	Ca_kabuli_chr01	31044719	AA	GG	1946734853
SNP_P4_9852_31045045	NC_021160.1	Ca_kabuli_chr01	31045045	GG	AA	1946734855
SNP_P4_9853_31050832	NC_021160.1	Ca_kabuli_chr01	31050832	CC	AA	1946734857
SNP_P4_9854_31050853	NC_021160.1	Ca_kabuli_chr01	31050853	CC	TT	1946734859
SNP_P4_9855_31050900	NC_021160.1	Ca_kabuli_chr01	31050900	TT	CC	1946734861
SNP_P4_9856_31050961	NC_021160.1	Ca_kabuli_chr01	31050961	GG	AA	1946734863
SNP_P4_9857_31051182	NC_021160.1	Ca_kabuli_chr01	31051182	TT	CC	1946734865
SNP_P4_9858_31051309	NC_021160.1	Ca_kabuli_chr01	31051309	CC	TT	1946734867
SNP_P4_9859_31051369	NC_021160.1	Ca_kabuli_chr01	31051369	TT	CC	1946734869
SNP_P4_9860_31056655	NC_021160.1	Ca_kabuli_chr01	31056655	GG	AA	1946734871
SNP_P4_9861_31057076	NC_021160.1	Ca_kabuli_chr01	31057076	GG	AA	1946734873
SNP_P4_9862_31058412	NC_021160.1	Ca_kabuli_chr01	31058412	TT	GG	1946734875
SNP_P4_9863_31058583	NC_021160.1	Ca_kabuli_chr01	31058583	TT	CC	1946734877
SNP_P4_9864_31068363	NC_021160.1	Ca_kabuli_chr01	31068363	TT	CC	1946734879
SNP_P4_9866_31072851	NC_021160.1	Ca_kabuli_chr01	31072851	TT	CC	1946734881
SNP_P4_9868_31073882	NC_021160.1	Ca_kabuli_chr01	31073882	GG	CC	1946734883
SNP_P4_9869_31074298	NC_021160.1	Ca_kabuli_chr01	31074298	GG	AA	1946734885
SNP_P4_9873_31094416	NC_021160.1	Ca_kabuli_chr01	31094416	CC	TT	1946734886
SNP_P4_9874_31094633	NC_021160.1	Ca_kabuli_chr01	31094633	GG	AA	1946734888
SNP_P4_9876_31104528	NC_021160.1	Ca_kabuli_chr01	31104528	GG	TT	1946734890
SNP_P4_9877_31114783	NC_021160.1	Ca_kabuli_chr01	31114783	GG	AA	1946734892
SNP_P4_9878_31115636	NC_021160.1	Ca_kabuli_chr01	31115636	GG	CC	1946734894
SNP_P4_9879_31117681	NC_021160.1	Ca_kabuli_chr01	31117681	GG	CC	1946734896
SNP_P4_9881_31118513	NC_021160.1	Ca_kabuli_chr01	31118513	AA	GG	1946734898
SNP_P4_9882_31118852	NC_021160.1	Ca_kabuli_chr01	31118852	GG	AA	1946734900
SNP_P4_9883_31120236	NC_021160.1	Ca_kabuli_chr01	31120236	CC	GG	1946734902
SNP_P4_9884_31130065	NC_021160.1	Ca_kabuli_chr01	31130065	CC	TT	1946734904
SNP_P4_9885_31130292	NC_021160.1	Ca_kabuli_chr01	31130292	GG	TT	1946734906
SNP_P4_9886_31130837	NC_021160.1	Ca_kabuli_chr01	31130837	AA	GG	1946734908
SNP_P4_9887_31130852	NC_021160.1	Ca_kabuli_chr01	31130852	GG	AA	1946734910
SNP_P4_9888_31134660	NC_021160.1	Ca_kabuli_chr01	31134660	AA	GG	1946734912
SNP_P4_9889_31135669	NC_021160.1	Ca_kabuli_chr01	31135669	CC	GG	1946734914
SNP_P4_9890_31136427	NC_021160.1	Ca_kabuli_chr01	31136427	TT	CC	1946734916
SNP_P4_9891_31141044	NC_021160.1	Ca_kabuli_chr01	31141044	GG	TT	1946734917
SNP_P4_9893_31142461	NC_021160.1	Ca_kabuli_chr01	31142461	GG	CC	1946734919
SNP_P4_9894_31142819	NC_021160.1	Ca_kabuli_chr01	31142819	AA	TT	1946734921

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_9897_31162909	NC_021160.1	Ca_kabuli_chr01	31162909	AA	TT	1946734925
SNP_P4_9898_31162917	NC_021160.1	Ca_kabuli_chr01	31162917	AA	CC	1946734927
SNP_P4_9899_31162948	NC_021160.1	Ca_kabuli_chr01	31162948	GG	AA	1946734929
SNP_P4_9900_31162952	NC_021160.1	Ca_kabuli_chr01	31162952	CC	GG	1946734931
SNP_P4_9902_31163570	NC_021160.1	Ca_kabuli_chr01	31163570	TT	CC	1946734933
SNP_P4_9903_31168300	NC_021160.1	Ca_kabuli_chr01	31168300	CC	GG	1946734935
SNP_P4_9904_31169360	NC_021160.1	Ca_kabuli_chr01	31169360	AA	CC	1946734937
SNP_P4_9905_31174374	NC_021160.1	Ca_kabuli_chr01	31174374	AA	GG	1946734939
SNP_P4_9906_31175605	NC_021160.1	Ca_kabuli_chr01	31175605	GG	AA	1946734941
SNP_P4_9907_31182489	NC_021160.1	Ca_kabuli_chr01	31182489	GG	AA	1946734943
SNP_P4_9908_31184175	NC_021160.1	Ca_kabuli_chr01	31184175	CC	AA	1946734945
SNP_P4_9909_31185873	NC_021160.1	Ca_kabuli_chr01	31185873	GG	AA	1946734947
SNP_P4_9910_31187772	NC_021160.1	Ca_kabuli_chr01	31187772	AA	TT	1946734948
SNP_P4_9911_31187881	NC_021160.1	Ca_kabuli_chr01	31187881	AA	GG	1946734950
SNP_P4_9912_31187920	NC_021160.1	Ca_kabuli_chr01	31187920	AA	CC	1946734952
SNP_P4_9913_31187922	NC_021160.1	Ca_kabuli_chr01	31187922	CC	TT	1946734954
SNP_P4_9914_31187927	NC_021160.1	Ca_kabuli_chr01	31187927	TT	CC	1946734956
SNP_P4_9915_31187966	NC_021160.1	Ca_kabuli_chr01	31187966	CC	AA	1946734958
SNP_P4_9916_31188005	NC_021160.1	Ca_kabuli_chr01	31188005	AA	CC	1946734960
SNP_P4_9917_31188019	NC_021160.1	Ca_kabuli_chr01	31188019	GG	AA	1946734962
SNP_P4_9918_31193203	NC_021160.1	Ca_kabuli_chr01	31193203	GG	AA	1946734965
SNP_P4_9919_31195065	NC_021160.1	Ca_kabuli_chr01	31195065	AA	TT	1946734967
SNP_P4_9920_31201504	NC_021160.1	Ca_kabuli_chr01	31201504	GG	TT	1946734969
SNP_P4_9921_31201538	NC_021160.1	Ca_kabuli_chr01	31201538	TT	CC	1946734971
SNP_P4_9922_31201559	NC_021160.1	Ca_kabuli_chr01	31201559	AA	GG	1946734973
SNP_P4_9923_31204087	NC_021160.1	Ca_kabuli_chr01	31204087	AA	CC	1946734975
SNP_P4_9924_31205310	NC_021160.1	Ca_kabuli_chr01	31205310	GG	AA	1946734977
SNP_P4_9925_31207366	NC_021160.1	Ca_kabuli_chr01	31207366	TT	GG	1946734979
SNP_P4_9926_31211547	NC_021160.1	Ca_kabuli_chr01	31211547	AA	GG	1946734981
SNP_P4_9927_31211580	NC_021160.1	Ca_kabuli_chr01	31211580	CC	TT	1946734983
SNP_P4_9929_31217186	NC_021160.1	Ca_kabuli_chr01	31217186	AA	TT	1946734985
SNP_P4_9930_31217269	NC_021160.1	Ca_kabuli_chr01	31217269	AA	TT	1946734987
SNP_P4_9931_31218110	NC_021160.1	Ca_kabuli_chr01	31218110	AA	GG	1946734989
SNP_P4_9932_31218387	NC_021160.1	Ca_kabuli_chr01	31218387	TT	AA	1946734992
SNP_P4_9933_31218396	NC_021160.1	Ca_kabuli_chr01	31218396	GG	TT	1946734994
SNP_P4_9934_31218464	NC_021160.1	Ca_kabuli_chr01	31218464	CC	AA	1946734996
SNP_P4_9935_31218547	NC_021160.1	Ca_kabuli_chr01	31218547	GG	AA	1946734998
SNP_P4_9936_31218601	NC_021160.1	Ca_kabuli_chr01	31218601	CC	GG	1946735000
SNP_P4_9937_31218768	NC_021160.1	Ca_kabuli_chr01	31218768	GG	TT	1946735002
SNP_P4_9938_31218863	NC_021160.1	Ca_kabuli_chr01	31218863	CC	TT	1946735004
SNP_P4_9939_31224986	NC_021160.1	Ca_kabuli_chr01	31224986	GG	TT	1946735006

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_9941_31248294	NC_021160.1	Ca_kabuli_chr01	31248294	AA	CC	1946735010
SNP_P4_9942_31249652	NC_021160.1	Ca_kabuli_chr01	31249652	AA	GG	1946735012
SNP_P4_9943_31250001	NC_021160.1	Ca_kabuli_chr01	31250001	AA	GG	1946735014
SNP_P4_9944_31251206	NC_021160.1	Ca_kabuli_chr01	31251206	AA	CC	1946735016
SNP_P4_9945_31251680	NC_021160.1	Ca_kabuli_chr01	31251680	CC	TT	1946735019
SNP_P4_9946_31252970	NC_021160.1	Ca_kabuli_chr01	31252970	TT	CC	1946735021
SNP_P4_9947_31254799	NC_021160.1	Ca_kabuli_chr01	31254799	GG	AA	1946735023
SNP_P4_9948_31259301	NC_021160.1	Ca_kabuli_chr01	31259301	TT	CC	1946735025
SNP_P4_9949_31266080	NC_021160.1	Ca_kabuli_chr01	31266080	GG	AA	1946735027
SNP_P4_9950_31267116	NC_021160.1	Ca_kabuli_chr01	31267116	GG	CC	1946735029
SNP_P4_9951_31279625	NC_021160.1	Ca_kabuli_chr01	31279625	AA	CC	1946735030
SNP_P4_9952_31280875	NC_021160.1	Ca_kabuli_chr01	31280875	AA	GG	1946735032
SNP_P4_9953_31280968	NC_021160.1	Ca_kabuli_chr01	31280968	TT	CC	1946735034
SNP_P4_9954_31281017	NC_021160.1	Ca_kabuli_chr01	31281017	TT	AA	1946735036
SNP_P4_9955_31281127	NC_021160.1	Ca_kabuli_chr01	31281127	AA	GG	1946735038
SNP_P4_9956_31282959	NC_021160.1	Ca_kabuli_chr01	31282959	GG	AA	1946735040
SNP_P4_9957_31286201	NC_021160.1	Ca_kabuli_chr01	31286201	AA	GG	1946735042
SNP_P4_9958_31286271	NC_021160.1	Ca_kabuli_chr01	31286271	GG	TT	1946735044
SNP_P4_9959_31286272	NC_021160.1	Ca_kabuli_chr01	31286272	AA	GG	1946735046
SNP_P4_9960_31286373	NC_021160.1	Ca_kabuli_chr01	31286373	AA	GG	1946735048
SNP_P4_9961_31290772	NC_021160.1	Ca_kabuli_chr01	31290772	CC	TT	1946735050
SNP_P4_9962_31291155	NC_021160.1	Ca_kabuli_chr01	31291155	TT	GG	1946735052
SNP_P4_9963_31306084	NC_021160.1	Ca_kabuli_chr01	31306084	AA	TT	1946735054
SNP_P4_9964_31307322	NC_021160.1	Ca_kabuli_chr01	31307322	GG	AA	1946735056
SNP_P4_9965_31307879	NC_021160.1	Ca_kabuli_chr01	31307879	AA	GG	1946735059
SNP_P4_9966_31309226	NC_021160.1	Ca_kabuli_chr01	31309226	CC	GG	1946735061
SNP_P4_9967_31309917	NC_021160.1	Ca_kabuli_chr01	31309917	GG	AA	1946735063
SNP_P4_9968_31310022	NC_021160.1	Ca_kabuli_chr01	31310022	AA	GG	1946735065
SNP_P4_9969_31310323	NC_021160.1	Ca_kabuli_chr01	31310323	TT	GG	1946735067
SNP_P4_9970_31310338	NC_021160.1	Ca_kabuli_chr01	31310338	GG	AA	1946735069
SNP_P4_9971_31310412	NC_021160.1	Ca_kabuli_chr01	31310412	CC	TT	1946735071
SNP_P4_9972_31320091	NC_021160.1	Ca_kabuli_chr01	31320091	CC	TT	1946735073
SNP_P4_9974_31326793	NC_021160.1	Ca_kabuli_chr01	31326793	AA	GG	1946735076
SNP_P4_9975_31330460	NC_021160.1	Ca_kabuli_chr01	31330460	CC	TT	1946735078
SNP_P4_9976_31336060	NC_021160.1	Ca_kabuli_chr01	31336060	TT	CC	1946735080
SNP_P4_9977_31336621	NC_021160.1	Ca_kabuli_chr01	31336621	AA	GG	1946735082
SNP_P4_9978_31342145	NC_021160.1	Ca_kabuli_chr01	31342145	TT	AA	1946735084
SNP_P4_9979_31344668	NC_021160.1	Ca_kabuli_chr01	31344668	CC	TT	1946735086
SNP_P4_9980_31344984	NC_021160.1	Ca_kabuli_chr01	31344984	GG	TT	1946735088
SNP_P4_9981_31347210	NC_021160.1	Ca_kabuli_chr01	31347210	GG	AA	1946735090
SNP_P4_9982_31368799	NC_021160.1	Ca_kabuli_chr01	31368799	TT	CC	1946735092

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_9985_31379215	NC_021160.1	Ca_kabuli_chr01	31379215	AA	GG	1946735096
SNP_P4_9986_31381894	NC_021160.1	Ca_kabuli_chr01	31381894	GG	AA	1946735098
SNP_P4_9988_31386987	NC_021160.1	Ca_kabuli_chr01	31386987	TT	GG	1946735100
SNP_P4_9990_31406841	NC_021160.1	Ca_kabuli_chr01	31406841	CC	AA	1946735102
SNP_P4_9991_31410801	NC_021160.1	Ca_kabuli_chr01	31410801	CC	TT	1946735104
SNP_P4_9992_31421611	NC_021160.1	Ca_kabuli_chr01	31421611	TT	AA	1946735107
SNP_P4_9993_31421612	NC_021160.1	Ca_kabuli_chr01	31421612	TT	CC	1946735109
SNP_P4_9994_31422436	NC_021160.1	Ca_kabuli_chr01	31422436	AA	TT	1946735111
SNP_P4_9995_31422579	NC_021160.1	Ca_kabuli_chr01	31422579	GG	AA	1946735112
SNP_P4_9997_31422987	NC_021160.1	Ca_kabuli_chr01	31422987	AA	GG	1946735114
SNP_P4_9998_31422991	NC_021160.1	Ca_kabuli_chr01	31422991	TT	GG	1946735116
SNP_P4_9999_31431951	NC_021160.1	Ca_kabuli_chr01	31431951	TT	CC	1946735118
SNP_P4_10000_31432738	NC_021160.1	Ca_kabuli_chr01	31432738	AA	GG	1946735120
SNP_P4_10001_31434139	NC_021160.1	Ca_kabuli_chr01	31434139	CC	TT	1946735122
SNP_P4_10002_31436431	NC_021160.1	Ca_kabuli_chr01	31436431	GG	CC	1946735124
SNP_P4_10003_31437430	NC_021160.1	Ca_kabuli_chr01	31437430	AA	GG	1946735126
SNP_P4_10004_31441045	NC_021160.1	Ca_kabuli_chr01	31441045	AA	GG	1946735128
SNP_P4_10005_31443604	NC_021160.1	Ca_kabuli_chr01	31443604	AA	GG	1946735130
SNP_P4_10006_31443672	NC_021160.1	Ca_kabuli_chr01	31443672	AA	CC	1946735132
SNP_P4_10007_31450553	NC_021160.1	Ca_kabuli_chr01	31450553	TT	AA	1946735134
SNP_P4_10009_31455089	NC_021160.1	Ca_kabuli_chr01	31455089	GG	AA	1946735136
SNP_P4_10010_31455543	NC_021160.1	Ca_kabuli_chr01	31455543	GG	AA	1946735138
SNP_P4_10011_31456183	NC_021160.1	Ca_kabuli_chr01	31456183	TT	GG	1946735140
SNP_P4_10013_31466789	NC_021160.1	Ca_kabuli_chr01	31466789	TT	CC	1946735142
SNP_P4_10014_31477590	NC_021160.1	Ca_kabuli_chr01	31477590	AA	TT	1946735144
SNP_P4_10017_31482201	NC_021160.1	Ca_kabuli_chr01	31482201	TT	CC	1946735146
SNP_P4_10018_31482268	NC_021160.1	Ca_kabuli_chr01	31482268	GG	AA	1946735148
SNP_P4_10019_31487909	NC_021160.1	Ca_kabuli_chr01	31487909	AA	GG	1946735149
SNP_P4_10020_31490456	NC_021160.1	Ca_kabuli_chr01	31490456	AA	GG	1946735151
SNP_P4_10021_31491125	NC_021160.1	Ca_kabuli_chr01	31491125	AA	GG	1946735153
SNP_P4_10022_31491537	NC_021160.1	Ca_kabuli_chr01	31491537	AA	GG	1946735155
SNP_P4_10023_31492632	NC_021160.1	Ca_kabuli_chr01	31492632	AA	GG	1946735157
SNP_P4_10024_31493683	NC_021160.1	Ca_kabuli_chr01	31493683	TT	CC	1946735159
SNP_P4_10025_31494120	NC_021160.1	Ca_kabuli_chr01	31494120	AA	CC	1946735161
SNP_P4_10026_31497880	NC_021160.1	Ca_kabuli_chr01	31497880	AA	GG	1946735163
SNP_P4_10027_31498392	NC_021160.1	Ca_kabuli_chr01	31498392	GG	AA	1946735165
SNP_P4_10030_31499014	NC_021160.1	Ca_kabuli_chr01	31499014	AA	GG	1946735167
SNP_P4_10032_31508049	NC_021160.1	Ca_kabuli_chr01	31508049	GG	AA	1946735169
SNP_P4_10033_31510938	NC_021160.1	Ca_kabuli_chr01	31510938	TT	AA	1946735171
SNP_P4_10034_31512866	NC_021160.1	Ca_kabuli_chr01	31512866	AA	GG	1946735173
SNP_P4_10035_31513288	NC_021160.1	Ca_kabuli_chr01	31513288	AA	CC	1946735175

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_10037_31515932	NC_021160.1	Ca_kabuli_chr01	31515932	CC	TT	1946735179
SNP_P4_10038_31515984	NC_021160.1	Ca_kabuli_chr01	31515984	TT	GG	1946735180
SNP_P4_10039_31516205	NC_021160.1	Ca_kabuli_chr01	31516205	CC	TT	1946735182
SNP_P4_10040_31522742	NC_021160.1	Ca_kabuli_chr01	31522742	TT	CC	1946735184
SNP_P4_10041_31533668	NC_021160.1	Ca_kabuli_chr01	31533668	CC	TT	1946735186
SNP_P4_10042_31541578	NC_021160.1	Ca_kabuli_chr01	31541578	AA	TT	1946735188
SNP_P4_10043_31544294	NC_021160.1	Ca_kabuli_chr01	31544294	GG	TT	1946735190
SNP_P4_10044_31550922	NC_021160.1	Ca_kabuli_chr01	31550922	GG	AA	1946735192
SNP_P4_10045_31556820	NC_021160.1	Ca_kabuli_chr01	31556820	GG	AA	1946735194
SNP_P4_10046_31580172	NC_021160.1	Ca_kabuli_chr01	31580172	GG	AA	1946735196
SNP_P4_10047_31581439	NC_021160.1	Ca_kabuli_chr01	31581439	TT	GG	1946735198
SNP_P4_10048_31581442	NC_021160.1	Ca_kabuli_chr01	31581442	TT	AA	1946735200
SNP_P4_10049_31584574	NC_021160.1	Ca_kabuli_chr01	31584574	GG	AA	1946735202
SNP_P4_10050_31584640	NC_021160.1	Ca_kabuli_chr01	31584640	CC	AA	1946735204
SNP_P4_10051_31585017	NC_021160.1	Ca_kabuli_chr01	31585017	CC	TT	1946735206
SNP_P4_10052_31585144	NC_021160.1	Ca_kabuli_chr01	31585144	CC	TT	1946735208
SNP_P4_10053_31585800	NC_021160.1	Ca_kabuli_chr01	31585800	AA	GG	1946735210
SNP_P4_10054_31587118	NC_021160.1	Ca_kabuli_chr01	31587118	AA	GG	1946735212
SNP_P4_10056_31590609	NC_021160.1	Ca_kabuli_chr01	31590609	CC	AA	1946735214
SNP_P4_10057_31592077	NC_021160.1	Ca_kabuli_chr01	31592077	GG	CC	1946735216
SNP_P4_10060_31592328	NC_021160.1	Ca_kabuli_chr01	31592328	AA	GG	1946735218
SNP_P4_10062_31592502	NC_021160.1	Ca_kabuli_chr01	31592502	AA	CC	1946735220
SNP_P4_10063_31592541	NC_021160.1	Ca_kabuli_chr01	31592541	GG	AA	1946735222
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SNP_P4_10065_31592835	NC_021160.1	Ca_kabuli_chr01	31592835	GG	AA	1946735226
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SNP_P4_10068_31599512	NC_021160.1	Ca_kabuli_chr01	31599512	TT	CC	1946735230
SNP_P4_10069_31599546	NC_021160.1	Ca_kabuli_chr01	31599546	TT	GG	1946735232
SNP_P4_10070_31599560	NC_021160.1	Ca_kabuli_chr01	31599560	TT	CC	1946735235
SNP_P4_10071_31599582	NC_021160.1	Ca_kabuli_chr01	31599582	TT	AA	1946735237
SNP_P4_10072_31599585	NC_021160.1	Ca_kabuli_chr01	31599585	GG	AA	1946735239
SNP_P4_10073_31599612	NC_021160.1	Ca_kabuli_chr01	31599612	TT	GG	1946735241
SNP_P4_10074_31599797	NC_021160.1	Ca_kabuli_chr01	31599797	TT	CC	1946735243
SNP_P4_10075_31599834	NC_021160.1	Ca_kabuli_chr01	31599834	CC	GG	1946735245
SNP_P4_10076_31599841	NC_021160.1	Ca_kabuli_chr01	31599841	CC	TT	1946735247
SNP_P4_10077_31599967	NC_021160.1	Ca_kabuli_chr01	31599967	CC	AA	1946735249
SNP_P4_10078_31599972	NC_021160.1	Ca_kabuli_chr01	31599972	AA	CC	1946735251
SNP_P4_10079_31600333	NC_021160.1	Ca_kabuli_chr01	31600333	TT	CC	1946735253
SNP_P4_10080_31600501	NC_021160.1	Ca_kabuli_chr01	31600501	GG	AA	1946735255
SNP_P4_10081_31600535	NC_021160.1	Ca_kabuli_chr01	31600535	GG	TT	1946735257
SNP_P4_10082_31600637	NC_021160.1	Ca_kabuli_chr01	31600637	TT	AA	1946735259

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_10085_31601426	NC_021160.1	Ca_kabuli_chr01	31601426	GG	AA	1946735263
SNP_P4_10087_31605271	NC_021160.1	Ca_kabuli_chr01	31605271	TT	GG	1946735265
SNP_P4_10088_31615700	NC_021160.1	Ca_kabuli_chr01	31615700	TT	CC	1946735267
SNP_P4_10089_31627019	NC_021160.1	Ca_kabuli_chr01	31627019	AA	CC	1946735269
SNP_P4_10090_31627028	NC_021160.1	Ca_kabuli_chr01	31627028	AA	GG	1946735271
SNP_P4_10091_31627067	NC_021160.1	Ca_kabuli_chr01	31627067	GG	CC	1946735273
SNP_P4_10092_31627102	NC_021160.1	Ca_kabuli_chr01	31627102	CC	TT	1946735275
SNP_P4_10094_31627410	NC_021160.1	Ca_kabuli_chr01	31627410	GG	AA	1946735277
SNP_P4_10095_31627469	NC_021160.1	Ca_kabuli_chr01	31627469	GG	AA	1946735279
SNP_P4_10096_31627507	NC_021160.1	Ca_kabuli_chr01	31627507	CC	TT	1946735281
SNP_P4_10097_31627508	NC_021160.1	Ca_kabuli_chr01	31627508	CC	TT	1946735283
SNP_P4_10098_31627512	NC_021160.1	Ca_kabuli_chr01	31627512	AA	GG	1946735285
SNP_P4_10099_31627522	NC_021160.1	Ca_kabuli_chr01	31627522	TT	GG	1946735287
SNP_P4_10100_31627536	NC_021160.1	Ca_kabuli_chr01	31627536	CC	TT	1946735289
SNP_P4_10101_31627537	NC_021160.1	Ca_kabuli_chr01	31627537	AA	GG	1946735291
SNP_P4_10102_31627547	NC_021160.1	Ca_kabuli_chr01	31627547	GG	TT	1946735293
SNP_P4_10103_31627563	NC_021160.1	Ca_kabuli_chr01	31627563	CC	AA	1946735296
SNP_P4_10104_31627605	NC_021160.1	Ca_kabuli_chr01	31627605	GG	TT	1946735298
SNP_P4_10105_31627680	NC_021160.1	Ca_kabuli_chr01	31627680	CC	AA	1946735300
SNP_P4_10106_31627681	NC_021160.1	Ca_kabuli_chr01	31627681	AA	CC	1946735302
SNP_P4_10107_31627689	NC_021160.1	Ca_kabuli_chr01	31627689	AA	GG	1946735304
SNP_P4_10108_31627733	NC_021160.1	Ca_kabuli_chr01	31627733	TT	CC	1946735306
SNP_P4_10109_31627736	NC_021160.1	Ca_kabuli_chr01	31627736	CC	TT	1946735308
SNP_P4_10110_31627791	NC_021160.1	Ca_kabuli_chr01	31627791	AA	TT	1946735310
SNP_P4_10111_31627793	NC_021160.1	Ca_kabuli_chr01	31627793	AA	CC	1946735312
SNP_P4_10112_31631924	NC_021160.1	Ca_kabuli_chr01	31631924	TT	CC	1946735314
SNP_P4_10113_31632335	NC_021160.1	Ca_kabuli_chr01	31632335	AA	GG	1946735315
SNP_P4_10114_31633201	NC_021160.1	Ca_kabuli_chr01	31633201	AA	GG	1946735316
SNP_P4_10115_31637839	NC_021160.1	Ca_kabuli_chr01	31637839	GG	AA	1946735317
SNP_P4_10116_31637874	NC_021160.1	Ca_kabuli_chr01	31637874	TT	AA	1946735318
SNP_P4_10117_31640049	NC_021160.1	Ca_kabuli_chr01	31640049	AA	CC	1946735320
SNP_P4_10118_31641836	NC_021160.1	Ca_kabuli_chr01	31641836	CC	AA	1946735322
SNP_P4_10119_31641875	NC_021160.1	Ca_kabuli_chr01	31641875	AA	TT	1946735324
SNP_P4_10121_31646004	NC_021160.1	Ca_kabuli_chr01	31646004	GG	CC	1946735326
SNP_P4_10122_31647719	NC_021160.1	Ca_kabuli_chr01	31647719	TT	CC	1946735328
SNP_P4_10123_31649310	NC_021160.1	Ca_kabuli_chr01	31649310	TT	CC	1946735330
SNP_P4_10124_31653437	NC_021160.1	Ca_kabuli_chr01	31653437	GG	AA	1946735332
SNP_P4_10125_31654725	NC_021160.1	Ca_kabuli_chr01	31654725	GG	CC	1946735334
SNP_P4_10126_31661628	NC_021160.1	Ca_kabuli_chr01	31661628	AA	GG	1946735336
SNP_P4_10127_31661757	NC_021160.1	Ca_kabuli_chr01	31661757	TT	AA	1946735338
SNP_P4_10128_31661834	NC_021160.1	Ca_kabuli_chr01	31661834	CC	GG	1946735340

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_10129_31663035	NC_021160.1	Ca_kabuli_chr01	31663035	TT	CC	1946735342
SNP_P4_10130_31664135	NC_021160.1	Ca_kabuli_chr01	31664135	CC	TT	1946735344
SNP_P4_10131_31667915	NC_021160.1	Ca_kabuli_chr01	31667915	TT	AA	1946735346
SNP_P4_10133_31669519	NC_021160.1	Ca_kabuli_chr01	31669519	GG	AA	1946735348
SNP_P4_10134_31694511	NC_021160.1	Ca_kabuli_chr01	31694511	GG	CC	1946735350
SNP_P4_10135_31710522	NC_021160.1	Ca_kabuli_chr01	31710522	GG	AA	1946735352
SNP_P4_10136_31710532	NC_021160.1	Ca_kabuli_chr01	31710532	GG	TT	1946735354
SNP_P4_10137_31710552	NC_021160.1	Ca_kabuli_chr01	31710552	GG	TT	1946735356
SNP_P4_10138_31716139	NC_021160.1	Ca_kabuli_chr01	31716139	TT	CC	1946735358
SNP_P4_10139_31716183	NC_021160.1	Ca_kabuli_chr01	31716183	TT	AA	1946735360
SNP_P4_10141_31716482	NC_021160.1	Ca_kabuli_chr01	31716482	AA	GG	1946735362
SNP_P4_10142_31716618	NC_021160.1	Ca_kabuli_chr01	31716618	CC	GG	1946735364
SNP_P4_10143_31721915	NC_021160.1	Ca_kabuli_chr01	31721915	AA	GG	1946735366
SNP_P4_10144_31726028	NC_021160.1	Ca_kabuli_chr01	31726028	AA	GG	1946735368
SNP_P4_10145_31726050	NC_021160.1	Ca_kabuli_chr01	31726050	TT	CC	1946735370
SNP_P4_10146_31726067	NC_021160.1	Ca_kabuli_chr01	31726067	CC	AA	1946735372
SNP_P4_10147_31726091	NC_021160.1	Ca_kabuli_chr01	31726091	CC	TT	1946735374
SNP_P4_10148_31726096	NC_021160.1	Ca_kabuli_chr01	31726096	AA	CC	1946735376
SNP_P4_10149_31726142	NC_021160.1	Ca_kabuli_chr01	31726142	TT	GG	1946735378
SNP_P4_10150_31726241	NC_021160.1	Ca_kabuli_chr01	31726241	GG	AA	1946735380
SNP_P4_10151_31726250	NC_021160.1	Ca_kabuli_chr01	31726250	AA	CC	1946735382
SNP_P4_10152_31726262	NC_021160.1	Ca_kabuli_chr01	31726262	GG	AA	1946735384
SNP_P4_10153_31726265	NC_021160.1	Ca_kabuli_chr01	31726265	TT	CC	1946735386
SNP_P4_10154_31726273	NC_021160.1	Ca_kabuli_chr01	31726273	TT	GG	1946735388
SNP_P4_10155_31753794	NC_021160.1	Ca_kabuli_chr01	31753794	AA	GG	1946735390
SNP_P4_10156_31754023	NC_021160.1	Ca_kabuli_chr01	31754023	CC	AA	1946735392
SNP_P4_10157_31754025	NC_021160.1	Ca_kabuli_chr01	31754025	TT	AA	1946735394
SNP_P4_10158_31754038	NC_021160.1	Ca_kabuli_chr01	31754038	TT	CC	1946735396
SNP_P4_10159_31762705	NC_021160.1	Ca_kabuli_chr01	31762705	TT	CC	1946735398
SNP_P4_10160_31768136	NC_021160.1	Ca_kabuli_chr01	31768136	AA	GG	1946735400
SNP_P4_10161_31768181	NC_021160.1	Ca_kabuli_chr01	31768181	CC	AA	1946735402
SNP_P4_10162_31768186	NC_021160.1	Ca_kabuli_chr01	31768186	CC	TT	1946735404
SNP_P4_10163_31768458	NC_021160.1	Ca_kabuli_chr01	31768458	GG	AA	1946735406
SNP_P4_10165_31773381	NC_021160.1	Ca_kabuli_chr01	31773381	CC	TT	1946735408
SNP_P4_10166_31778803	NC_021160.1	Ca_kabuli_chr01	31778803	AA	TT	1946735410
SNP_P4_10167_31778898	NC_021160.1	Ca_kabuli_chr01	31778898	CC	GG	1946735413
SNP_P4_10168_31778976	NC_021160.1	Ca_kabuli_chr01	31778976	AA	GG	1946735415
SNP_P4_10169_31778982	NC_021160.1	Ca_kabuli_chr01	31778982	CC	TT	1946735417
SNP_P4_10170_31779039	NC_021160.1	Ca_kabuli_chr01	31779039	TT	CC	1946735419
SNP_P4_10171_31779046	NC_021160.1	Ca_kabuli_chr01	31779046	TT	CC	1946735421
SNP_P4_10172_31779048	NC_021160.1	Ca_kabuli_chr01	31779048	AA	GG	1946735423
SNP_P4_10173_31779054	NC_021160.1	Ca_kabuli_chr01	31779054	GG	AA	1946735425

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_10175_31779376	NC_021160.1	Ca_kabuli_chr01	31779376	AA	GG	1946735429
SNP_P4_10176_31779547	NC_021160.1	Ca_kabuli_chr01	31779547	TT	GG	1946735431
SNP_P4_10177_31779587	NC_021160.1	Ca_kabuli_chr01	31779587	CC	TT	1946735433
SNP_P4_10178_31779601	NC_021160.1	Ca_kabuli_chr01	31779601	TT	CC	1946735435
SNP_P4_10179_31779617	NC_021160.1	Ca_kabuli_chr01	31779617	AA	CC	1946735437
SNP_P4_10180_31779693	NC_021160.1	Ca_kabuli_chr01	31779693	TT	AA	1946735439
SNP_P4_10181_31779720	NC_021160.1	Ca_kabuli_chr01	31779720	TT	AA	1946735441
SNP_P4_10182_31779764	NC_021160.1	Ca_kabuli_chr01	31779764	AA	TT	1946735443
SNP_P4_10183_31779946	NC_021160.1	Ca_kabuli_chr01	31779946	TT	CC	1946735444
SNP_P4_10184_31780000	NC_021160.1	Ca_kabuli_chr01	31780000	TT	GG	1946735446
SNP_P4_10185_31780013	NC_021160.1	Ca_kabuli_chr01	31780013	GG	TT	1946735448
SNP_P4_10186_31780017	NC_021160.1	Ca_kabuli_chr01	31780017	AA	TT	1946735450
SNP_P4_10187_31780018	NC_021160.1	Ca_kabuli_chr01	31780018	AA	GG	1946735452
SNP_P4_10188_31783330	NC_021160.1	Ca_kabuli_chr01	31783330	TT	CC	1946735454
SNP_P4_10189_31783355	NC_021160.1	Ca_kabuli_chr01	31783355	AA	GG	1946735456
SNP_P4_10190_31783381	NC_021160.1	Ca_kabuli_chr01	31783381	TT	CC	1946735458
SNP_P4_10192_31783604	NC_021160.1	Ca_kabuli_chr01	31783604	GG	AA	1946735460
SNP_P4_10193_31783648	NC_021160.1	Ca_kabuli_chr01	31783648	CC	GG	1946735462
SNP_P4_10194_31783653	NC_021160.1	Ca_kabuli_chr01	31783653	CC	TT	1946735464
SNP_P4_10195_31783700	NC_021160.1	Ca_kabuli_chr01	31783700	GG	AA	1946735466
SNP_P4_10196_31783800	NC_021160.1	Ca_kabuli_chr01	31783800	AA	TT	1946735468
SNP_P4_10198_31783867	NC_021160.1	Ca_kabuli_chr01	31783867	GG	TT	1946735470
SNP_P4_10199_31783910	NC_021160.1	Ca_kabuli_chr01	31783910	GG	AA	1946735472
SNP_P4_10200_31784053	NC_021160.1	Ca_kabuli_chr01	31784053	TT	AA	1946735474
SNP_P4_10201_31784055	NC_021160.1	Ca_kabuli_chr01	31784055	TT	AA	1946735476
SNP_P4_10202_31784148	NC_021160.1	Ca_kabuli_chr01	31784148	AA	CC	1946735478
SNP_P4_10203_31784244	NC_021160.1	Ca_kabuli_chr01	31784244	GG	AA	1946735479
SNP_P4_10204_31784388	NC_021160.1	Ca_kabuli_chr01	31784388	TT	CC	1946735480
SNP_P4_10205_31784411	NC_021160.1	Ca_kabuli_chr01	31784411	GG	AA	1946735481
SNP_P4_10206_31784609	NC_021160.1	Ca_kabuli_chr01	31784609	CC	TT	1946735482
SNP_P4_10207_31784665	NC_021160.1	Ca_kabuli_chr01	31784665	GG	AA	1946735483
SNP_P4_10208_31784685	NC_021160.1	Ca_kabuli_chr01	31784685	GG	AA	1946735485
SNP_P4_10209_31784718	NC_021160.1	Ca_kabuli_chr01	31784718	CC	GG	1946735487
SNP_P4_10210_31784851	NC_021160.1	Ca_kabuli_chr01	31784851	TT	CC	1946735489
SNP_P4_10211_31785061	NC_021160.1	Ca_kabuli_chr01	31785061	AA	GG	1946735491
SNP_P4_10212_31785115	NC_021160.1	Ca_kabuli_chr01	31785115	AA	TT	1946735493
SNP_P4_10213_31785154	NC_021160.1	Ca_kabuli_chr01	31785154	AA	TT	1946735495
SNP_P4_10214_31785186	NC_021160.1	Ca_kabuli_chr01	31785186	CC	GG	1946735497
SNP_P4_10215_31785187	NC_021160.1	Ca_kabuli_chr01	31785187	CC	TT	1946735499
SNP_P4_10216_31785298	NC_021160.1	Ca_kabuli_chr01	31785298	TT	GG	1946735501
SNP_P4_10217_31785322	NC_021160.1	Ca_kabuli_chr01	31785322	CC	TT	1946735503

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_10219_31785396	NC_021160.1	Ca_kabuli_chr01	31785396	AA	TT	1946735507
SNP_P4_10220_31785448	NC_021160.1	Ca_kabuli_chr01	31785448	TT	GG	1946735509
SNP_P4_10221_31785449	NC_021160.1	Ca_kabuli_chr01	31785449	AA	TT	1946735511
SNP_P4_10222_31785496	NC_021160.1	Ca_kabuli_chr01	31785496	CC	TT	1946735513
SNP_P4_10223_31785537	NC_021160.1	Ca_kabuli_chr01	31785537	GG	AA	1946735515
SNP_P4_10224_31785582	NC_021160.1	Ca_kabuli_chr01	31785582	TT	CC	1946735517
SNP_P4_10225_31785585	NC_021160.1	Ca_kabuli_chr01	31785585	GG	CC	1946735519
SNP_P4_10226_31785628	NC_021160.1	Ca_kabuli_chr01	31785628	CC	AA	1946735520
SNP_P4_10227_31785648	NC_021160.1	Ca_kabuli_chr01	31785648	TT	GG	1946735522
SNP_P4_10228_31785664	NC_021160.1	Ca_kabuli_chr01	31785664	AA	CC	1946735524
SNP_P4_10229_31785704	NC_021160.1	Ca_kabuli_chr01	31785704	GG	AA	1946735526
SNP_P4_10230_31785864	NC_021160.1	Ca_kabuli_chr01	31785864	AA	CC	1946735528
SNP_P4_10231_31785905	NC_021160.1	Ca_kabuli_chr01	31785905	CC	TT	1946735530
SNP_P4_10232_31786032	NC_021160.1	Ca_kabuli_chr01	31786032	GG	CC	1946735532
SNP_P4_10233_31786048	NC_021160.1	Ca_kabuli_chr01	31786048	AA	CC	1946735534
SNP_P4_10234_31786108	NC_021160.1	Ca_kabuli_chr01	31786108	AA	CC	1946735536
SNP_P4_10235_31786136	NC_021160.1	Ca_kabuli_chr01	31786136	TT	CC	1946735538
SNP_P4_10236_31786181	NC_021160.1	Ca_kabuli_chr01	31786181	AA	TT	1946735540
SNP_P4_10237_31786269	NC_021160.1	Ca_kabuli_chr01	31786269	AA	TT	1946735542
SNP_P4_10238_31786303	NC_021160.1	Ca_kabuli_chr01	31786303	TT	AA	1946735544
SNP_P4_10239_31786347	NC_021160.1	Ca_kabuli_chr01	31786347	AA	GG	1946735546
SNP_P4_10240_31786402	NC_021160.1	Ca_kabuli_chr01	31786402	CC	AA	1946735548
SNP_P4_10241_31786406	NC_021160.1	Ca_kabuli_chr01	31786406	AA	TT	1946735550
SNP_P4_10242_31786475	NC_021160.1	Ca_kabuli_chr01	31786475	TT	CC	1946735551
SNP_P4_10243_31786479	NC_021160.1	Ca_kabuli_chr01	31786479	AA	TT	1946735553
SNP_P4_10244_31786709	NC_021160.1	Ca_kabuli_chr01	31786709	TT	AA	1946735555
SNP_P4_10245_31786725	NC_021160.1	Ca_kabuli_chr01	31786725	AA	GG	1946735557
SNP_P4_10246_31788735	NC_021160.1	Ca_kabuli_chr01	31788735	AA	GG	1946735559
SNP_P4_10247_31794450	NC_021160.1	Ca_kabuli_chr01	31794450	GG	TT	1946735561
SNP_P4_10248_31795537	NC_021160.1	Ca_kabuli_chr01	31795537	AA	CC	1946735563
SNP_P4_10249_31795559	NC_021160.1	Ca_kabuli_chr01	31795559	GG	TT	1946735565
SNP_P4_10250_31795631	NC_021160.1	Ca_kabuli_chr01	31795631	TT	GG	1946735567
SNP_P4_10251_31795655	NC_021160.1	Ca_kabuli_chr01	31795655	TT	AA	1946735569
SNP_P4_10252_31795660	NC_021160.1	Ca_kabuli_chr01	31795660	AA	TT	1946735571
SNP_P4_10253_31795682	NC_021160.1	Ca_kabuli_chr01	31795682	CC	TT	1946735573
SNP_P4_10254_31795690	NC_021160.1	Ca_kabuli_chr01	31795690	GG	AA	1946735575
SNP_P4_10255_31795695	NC_021160.1	Ca_kabuli_chr01	31795695	GG	AA	1946735577
SNP_P4_10256_31795739	NC_021160.1	Ca_kabuli_chr01	31795739	CC	AA	1946735579
SNP_P4_10257_31795940	NC_021160.1	Ca_kabuli_chr01	31795940	GG	TT	1946735581
SNP_P4_10258_31805824	NC_021160.1	Ca_kabuli_chr01	31805824	TT	CC	1946735583
SNP_P4_10259_31806090	NC_021160.1	Ca_kabuli_chr01	31806090	AA	GG	1946735585

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_10262_31830170	NC_021160.1	Ca_kabuli_chr01	31830170	CC	AA	1946735589
SNP_P4_10263_31833536	NC_021160.1	Ca_kabuli_chr01	31833536	AA	GG	1946735591
SNP_P4_10264_31833562	NC_021160.1	Ca_kabuli_chr01	31833562	TT	GG	1946735593
SNP_P4_10265_31833779	NC_021160.1	Ca_kabuli_chr01	31833779	TT	CC	1946735595
SNP_P4_10266_31833781	NC_021160.1	Ca_kabuli_chr01	31833781	CC	TT	1946735597
SNP_P4_10267_31833807	NC_021160.1	Ca_kabuli_chr01	31833807	GG	CC	1946735599
SNP_P4_10268_31833811	NC_021160.1	Ca_kabuli_chr01	31833811	GG	AA	1946735601
SNP_P4_10269_31833818	NC_021160.1	Ca_kabuli_chr01	31833818	TT	AA	1946735603
SNP_P4_10270_31836126	NC_021160.1	Ca_kabuli_chr01	31836126	AA	TT	1946735605
SNP_P4_10271_31868616	NC_021160.1	Ca_kabuli_chr01	31868616	TT	GG	1946735607
SNP_P4_10272_31868664	NC_021160.1	Ca_kabuli_chr01	31868664	CC	GG	1946735609
SNP_P4_10273_31870564	NC_021160.1	Ca_kabuli_chr01	31870564	GG	TT	1946735611
SNP_P4_10274_31894983	NC_021160.1	Ca_kabuli_chr01	31894983	TT	CC	1946735613
SNP_P4_10275_31905810	NC_021160.1	Ca_kabuli_chr01	31905810	CC	GG	1946735615
SNP_P4_10276_31913498	NC_021160.1	Ca_kabuli_chr01	31913498	AA	TT	1946735617
SNP_P4_10277_31918007	NC_021160.1	Ca_kabuli_chr01	31918007	GG	AA	1946735619
SNP_P4_10278_31926842	NC_021160.1	Ca_kabuli_chr01	31926842	AA	GG	1946735621
SNP_P4_10279_31944796	NC_021160.1	Ca_kabuli_chr01	31944796	CC	TT	1946735623
SNP_P4_10280_31945247	NC_021160.1	Ca_kabuli_chr01	31945247	TT	CC	1946735625
SNP_P4_10281_31946706	NC_021160.1	Ca_kabuli_chr01	31946706	AA	GG	1946735627
SNP_P4_10282_31946717	NC_021160.1	Ca_kabuli_chr01	31946717	AA	GG	1946735629
SNP_P4_10283_31946725	NC_021160.1	Ca_kabuli_chr01	31946725	AA	TT	1946735631
SNP_P4_10284_31946746	NC_021160.1	Ca_kabuli_chr01	31946746	TT	GG	1946735633
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SNP_P4_10286_31952883	NC_021160.1	Ca_kabuli_chr01	31952883	CC	TT	1946735636
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SNP_P4_10288_31969412	NC_021160.1	Ca_kabuli_chr01	31969412	TT	CC	1946735640
SNP_P4_10289_31976322	NC_021160.1	Ca_kabuli_chr01	31976322	AA	GG	1946735642
SNP_P4_10290_31979217	NC_021160.1	Ca_kabuli_chr01	31979217	CC	TT	1946735644
SNP_P4_10291_31994739	NC_021160.1	Ca_kabuli_chr01	31994739	CC	TT	1946735646
SNP_P4_10292_31995158	NC_021160.1	Ca_kabuli_chr01	31995158	GG	AA	1946735648
SNP_P4_10293_31995168	NC_021160.1	Ca_kabuli_chr01	31995168	AA	TT	1946735650
SNP_P4_10294_31995290	NC_021160.1	Ca_kabuli_chr01	31995290	TT	CC	1946735652
SNP_P4_10295_31995301	NC_021160.1	Ca_kabuli_chr01	31995301	GG	AA	1946735654
SNP_P4_10296_31995364	NC_021160.1	Ca_kabuli_chr01	31995364	TT	GG	1946735656
SNP_P4_10297_31995371	NC_021160.1	Ca_kabuli_chr01	31995371	TT	GG	1946735658
SNP_P4_10298_31995426	NC_021160.1	Ca_kabuli_chr01	31995426	TT	CC	1946735660
SNP_P4_10301_31995540	NC_021160.1	Ca_kabuli_chr01	31995540	AA	TT	1946735662
SNP_P4_10302_31995565	NC_021160.1	Ca_kabuli_chr01	31995565	AA	GG	1946735664
SNP_P4_10303_31995597	NC_021160.1	Ca_kabuli_chr01	31995597	CC	TT	1946735666
SNP_P4_10304_31995700	NC_021160.1	Ca_kabuli_chr01	31995700	GG	AA	1946735668

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_10306_32003325	NC_021160.1	Ca_kabuli_chr01	32003325	GG	TT	1946735672
SNP_P4_10307_32003698	NC_021160.1	Ca_kabuli_chr01	32003698	TT	AA	1946735674
SNP_P4_10308_32003713	NC_021160.1	Ca_kabuli_chr01	32003713	CC	AA	1946735676
SNP_P4_10309_32006061	NC_021160.1	Ca_kabuli_chr01	32006061	TT	CC	1946735678
SNP_P4_10310_32006983	NC_021160.1	Ca_kabuli_chr01	32006983	TT	AA	1946735680
SNP_P4_10311_32031054	NC_021160.1	Ca_kabuli_chr01	32031054	AA	CC	1946735682
SNP_P4_10312_32033776	NC_021160.1	Ca_kabuli_chr01	32033776	TT	AA	1946735684
SNP_P4_10313_32033780	NC_021160.1	Ca_kabuli_chr01	32033780	TT	AA	1946735686
SNP_P4_10314_32033826	NC_021160.1	Ca_kabuli_chr01	32033826	AA	GG	1946735688
SNP_P4_10315_32037059	NC_021160.1	Ca_kabuli_chr01	32037059	AA	GG	1946735690
SNP_P4_10316_32037065	NC_021160.1	Ca_kabuli_chr01	32037065	CC	TT	1946735693
SNP_P4_10317_32037081	NC_021160.1	Ca_kabuli_chr01	32037081	AA	TT	1946735695
SNP_P4_10318_32037112	NC_021160.1	Ca_kabuli_chr01	32037112	TT	CC	1946735697
SNP_P4_10319_32037275	NC_021160.1	Ca_kabuli_chr01	32037275	CC	TT	1946735699
SNP_P4_10322_32037412	NC_021160.1	Ca_kabuli_chr01	32037412	GG	AA	1946735700
SNP_P4_10323_32038775	NC_021160.1	Ca_kabuli_chr01	32038775	TT	CC	1946735702
SNP_P4_10324_32038848	NC_021160.1	Ca_kabuli_chr01	32038848	TT	CC	1946735704
SNP_P4_10325_32038856	NC_021160.1	Ca_kabuli_chr01	32038856	GG	TT	1946735706
SNP_P4_10326_32038889	NC_021160.1	Ca_kabuli_chr01	32038889	TT	GG	1946735708
SNP_P4_10327_32038946	NC_021160.1	Ca_kabuli_chr01	32038946	CC	GG	1946735710
SNP_P4_10328_32039088	NC_021160.1	Ca_kabuli_chr01	32039088	TT	CC	1946735712
SNP_P4_10329_32043856	NC_021160.1	Ca_kabuli_chr01	32043856	CC	AA	1946735714
SNP_P4_10330_32047361	NC_021160.1	Ca_kabuli_chr01	32047361	CC	TT	1946735716
SNP_P4_10331_32047452	NC_021160.1	Ca_kabuli_chr01	32047452	TT	AA	1946735718
SNP_P4_10333_32079242	NC_021160.1	Ca_kabuli_chr01	32079242	AA	TT	1946735720
SNP_P4_10334_32079596	NC_021160.1	Ca_kabuli_chr01	32079596	TT	AA	1946735722
SNP_P4_10335_32079599	NC_021160.1	Ca_kabuli_chr01	32079599	TT	CC	1946735724
SNP_P4_10336_32079617	NC_021160.1	Ca_kabuli_chr01	32079617	TT	AA	1946735726
SNP_P4_10337_32079661	NC_021160.1	Ca_kabuli_chr01	32079661	AA	GG	1946735728
SNP_P4_10338_32079675	NC_021160.1	Ca_kabuli_chr01	32079675	AA	CC	1946735730
SNP_P4_10339_32079717	NC_021160.1	Ca_kabuli_chr01	32079717	TT	CC	1946735733
SNP_P4_10340_32079786	NC_021160.1	Ca_kabuli_chr01	32079786	TT	CC	1946735735
SNP_P4_10341_32079800	NC_021160.1	Ca_kabuli_chr01	32079800	AA	GG	1946735737
SNP_P4_10342_32079816	NC_021160.1	Ca_kabuli_chr01	32079816	AA	GG	1946735738
SNP_P4_10343_32079823	NC_021160.1	Ca_kabuli_chr01	32079823	TT	CC	1946735740
SNP_P4_10344_32079914	NC_021160.1	Ca_kabuli_chr01	32079914	TT	GG	1946735742
SNP_P4_10345_32079954	NC_021160.1	Ca_kabuli_chr01	32079954	TT	CC	1946735744
SNP_P4_10346_32079987	NC_021160.1	Ca_kabuli_chr01	32079987	TT	CC	1946735746
SNP_P4_10347_32080004	NC_021160.1	Ca_kabuli_chr01	32080004	AA	GG	1946735748
SNP_P4_10348_32080019	NC_021160.1	Ca_kabuli_chr01	32080019	TT	CC	1946735750
SNP_P4_10349_32080028	NC_021160.1	Ca_kabuli_chr01	32080028	TT	CC	1946735752

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_10352_32080139	NC_021160.1	Ca_kabuli_chr01	32080139	AA	GG	1946735756
SNP_P4_10353_32080153	NC_021160.1	Ca_kabuli_chr01	32080153	TT	CC	1946735758
SNP_P4_10354_32080263	NC_021160.1	Ca_kabuli_chr01	32080263	TT	CC	1946735760
SNP_P4_10355_32080264	NC_021160.1	Ca_kabuli_chr01	32080264	AA	GG	1946735762
SNP_P4_10356_32080282	NC_021160.1	Ca_kabuli_chr01	32080282	AA	CC	1946735764
SNP_P4_10357_32080283	NC_021160.1	Ca_kabuli_chr01	32080283	TT	CC	1946735766
SNP_P4_10358_32080285	NC_021160.1	Ca_kabuli_chr01	32080285	TT	GG	1946735768
SNP_P4_10359_32080315	NC_021160.1	Ca_kabuli_chr01	32080315	GG	AA	1946735770
SNP_P4_10360_32080352	NC_021160.1	Ca_kabuli_chr01	32080352	TT	CC	1946735772
SNP_P4_10361_32080356	NC_021160.1	Ca_kabuli_chr01	32080356	AA	GG	1946735774
SNP_P4_10362_32080368	NC_021160.1	Ca_kabuli_chr01	32080368	AA	GG	1946735776
SNP_P4_10363_32080371	NC_021160.1	Ca_kabuli_chr01	32080371	AA	GG	1946735778
SNP_P4_10364_32080412	NC_021160.1	Ca_kabuli_chr01	32080412	AA	GG	1946735780
SNP_P4_10365_32080430	NC_021160.1	Ca_kabuli_chr01	32080430	AA	GG	1946735782
SNP_P4_10366_32080439	NC_021160.1	Ca_kabuli_chr01	32080439	TT	CC	1946735784
SNP_P4_10367_32080453	NC_021160.1	Ca_kabuli_chr01	32080453	TT	GG	1946735786
SNP_P4_10368_32080456	NC_021160.1	Ca_kabuli_chr01	32080456	GG	CC	1946735788
SNP_P4_10369_32080459	NC_021160.1	Ca_kabuli_chr01	32080459	GG	AA	1946735790
SNP_P4_10370_32080462	NC_021160.1	Ca_kabuli_chr01	32080462	AA	GG	1946735792
SNP_P4_10371_32080500	NC_021160.1	Ca_kabuli_chr01	32080500	AA	GG	1946735794
SNP_P4_10372_32080501	NC_021160.1	Ca_kabuli_chr01	32080501	AA	GG	1946735796
SNP_P4_10373_32080665	NC_021160.1	Ca_kabuli_chr01	32080665	TT	AA	1946735798
SNP_P4_10374_32080696	NC_021160.1	Ca_kabuli_chr01	32080696	AA	GG	1946735800
SNP_P4_10375_32080739	NC_021160.1	Ca_kabuli_chr01	32080739	AA	CC	1946735802
SNP_P4_10376_32081565	NC_021160.1	Ca_kabuli_chr01	32081565	GG	AA	1946735804
SNP_P4_10377_32082346	NC_021160.1	Ca_kabuli_chr01	32082346	CC	AA	1946735806
SNP_P4_10378_32083459	NC_021160.1	Ca_kabuli_chr01	32083459	CC	TT	1946735808
SNP_P4_10379_32087525	NC_021160.1	Ca_kabuli_chr01	32087525	TT	AA	1946735810
SNP_P4_10380_32124147	NC_021160.1	Ca_kabuli_chr01	32124147	GG	AA	1946735812
SNP_P4_10381_32124624	NC_021160.1	Ca_kabuli_chr01	32124624	CC	TT	1946735814
SNP_P4_10382_32124810	NC_021160.1	Ca_kabuli_chr01	32124810	TT	GG	1946735816
SNP_P4_10383_32125358	NC_021160.1	Ca_kabuli_chr01	32125358	GG	AA	1946735818
SNP_P4_10384_32126767	NC_021160.1	Ca_kabuli_chr01	32126767	CC	AA	1946735820
SNP_P4_10385_32126860	NC_021160.1	Ca_kabuli_chr01	32126860	TT	GG	1946735822
SNP_P4_10386_32126900	NC_021160.1	Ca_kabuli_chr01	32126900	CC	TT	1946735824
SNP_P4_10387_32128231	NC_021160.1	Ca_kabuli_chr01	32128231	GG	AA	1946735826
SNP_P4_10388_32133130	NC_021160.1	Ca_kabuli_chr01	32133130	AA	GG	1946735828
SNP_P4_10389_32133322	NC_021160.1	Ca_kabuli_chr01	32133322	CC	TT	1946735830
SNP_P4_10390_32139298	NC_021160.1	Ca_kabuli_chr01	32139298	AA	TT	1946735832
SNP_P4_10391_32139790	NC_021160.1	Ca_kabuli_chr01	32139790	GG	AA	1946735834
SNP_P4_10392_32139997	NC_021160.1	Ca_kabuli_chr01	32139997	AA	GG	1946735836

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_10395_32141321	NC_021160.1	Ca_kabuli_chr01	32141321	GG	AA	1946735840
SNP_P4_10396_32141349	NC_021160.1	Ca_kabuli_chr01	32141349	CC	TT	1946735842
SNP_P4_10397_32141350	NC_021160.1	Ca_kabuli_chr01	32141350	TT	CC	1946735844
SNP_P4_10398_32141356	NC_021160.1	Ca_kabuli_chr01	32141356	TT	GG	1946735846
SNP_P4_10399_32141365	NC_021160.1	Ca_kabuli_chr01	32141365	TT	CC	1946735848
SNP_P4_10400_32145583	NC_021160.1	Ca_kabuli_chr01	32145583	CC	TT	1946735850
SNP_P4_10401_32145938	NC_021160.1	Ca_kabuli_chr01	32145938	GG	AA	1946735852
SNP_P4_10402_32146643	NC_021160.1	Ca_kabuli_chr01	32146643	CC	AA	1946735854
SNP_P4_10404_32147267	NC_021160.1	Ca_kabuli_chr01	32147267	TT	CC	1946735856
SNP_P4_10405_32150287	NC_021160.1	Ca_kabuli_chr01	32150287	AA	TT	1946735858
SNP_P4_10406_32150288	NC_021160.1	Ca_kabuli_chr01	32150288	TT	GG	1946735860
SNP_P4_10407_32150303	NC_021160.1	Ca_kabuli_chr01	32150303	GG	TT	1946735862
SNP_P4_10408_32150312	NC_021160.1	Ca_kabuli_chr01	32150312	AA	GG	1946735864
SNP_P4_10409_32150313	NC_021160.1	Ca_kabuli_chr01	32150313	GG	AA	1946735866
SNP_P4_10410_32150346	NC_021160.1	Ca_kabuli_chr01	32150346	TT	AA	1946735868
SNP_P4_10411_32150355	NC_021160.1	Ca_kabuli_chr01	32150355	GG	AA	1946735870
SNP_P4_10412_32150510	NC_021160.1	Ca_kabuli_chr01	32150510	AA	GG	1946735872
SNP_P4_10413_32150603	NC_021160.1	Ca_kabuli_chr01	32150603	TT	CC	1946735874
SNP_P4_10414_32150639	NC_021160.1	Ca_kabuli_chr01	32150639	CC	AA	1946735876
SNP_P4_10415_32150819	NC_021160.1	Ca_kabuli_chr01	32150819	GG	AA	1946735878
SNP_P4_10417_32151737	NC_021160.1	Ca_kabuli_chr01	32151737	TT	GG	1946735880
SNP_P4_10418_32152033	NC_021160.1	Ca_kabuli_chr01	32152033	GG	AA	1946735883
SNP_P4_10419_32152241	NC_021160.1	Ca_kabuli_chr01	32152241	CC	TT	1946735885
SNP_P4_10420_32152688	NC_021160.1	Ca_kabuli_chr01	32152688	TT	CC	1946735887
SNP_P4_10421_32152723	NC_021160.1	Ca_kabuli_chr01	32152723	AA	CC	1946735889
SNP_P4_10423_32154669	NC_021160.1	Ca_kabuli_chr01	32154669	CC	TT	1946735891
SNP_P4_10424_32154834	NC_021160.1	Ca_kabuli_chr01	32154834	AA	CC	1946735893
SNP_P4_10425_32154876	NC_021160.1	Ca_kabuli_chr01	32154876	AA	CC	1946735895
SNP_P4_10426_32155025	NC_021160.1	Ca_kabuli_chr01	32155025	CC	TT	1946735897
SNP_P4_10427_32155031	NC_021160.1	Ca_kabuli_chr01	32155031	TT	CC	1946735899
SNP_P4_10428_32155622	NC_021160.1	Ca_kabuli_chr01	32155622	AA	TT	1946735901
SNP_P4_10430_32156547	NC_021160.1	Ca_kabuli_chr01	32156547	CC	TT	1946735903
SNP_P4_10431_32157308	NC_021160.1	Ca_kabuli_chr01	32157308	CC	TT	1946735905
SNP_P4_10432_32158328	NC_021160.1	Ca_kabuli_chr01	32158328	AA	GG	1946735907
SNP_P4_10433_32159110	NC_021160.1	Ca_kabuli_chr01	32159110	GG	AA	1946735909
SNP_P4_10434_32159539	NC_021160.1	Ca_kabuli_chr01	32159539	TT	CC	1946735911
SNP_P4_10435_32160754	NC_021160.1	Ca_kabuli_chr01	32160754	TT	CC	1946735913
SNP_P4_10436_32160999	NC_021160.1	Ca_kabuli_chr01	32160999	TT	AA	1946735915
SNP_P4_10437_32170180	NC_021160.1	Ca_kabuli_chr01	32170180	TT	CC	1946735917
SNP_P4_10438_32172827	NC_021160.1	Ca_kabuli_chr01	32172827	GG	AA	1946735919
SNP_P4_10439_32174446	NC_021160.1	Ca_kabuli_chr01	32174446	AA	GG	1946735921

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_10441_32175687	NC_021160.1	Ca_kabuli_chr01	32175687	AA	TT	1946735925
SNP_P4_10442_32175885	NC_021160.1	Ca_kabuli_chr01	32175885	GG	AA	1946735927
SNP_P4_10443_32175945	NC_021160.1	Ca_kabuli_chr01	32175945	AA	CC	1946735929
SNP_P4_10445_32176223	NC_021160.1	Ca_kabuli_chr01	32176223	GG	AA	1946735931
SNP_P4_10446_32177117	NC_021160.1	Ca_kabuli_chr01	32177117	TT	CC	1946735933
SNP_P4_10447_32177237	NC_021160.1	Ca_kabuli_chr01	32177237	TT	CC	1946735935
SNP_P4_10448_32177250	NC_021160.1	Ca_kabuli_chr01	32177250	TT	CC	1946735937
SNP_P4_10449_32177339	NC_021160.1	Ca_kabuli_chr01	32177339	GG	AA	1946735939
SNP_P4_10450_32177347	NC_021160.1	Ca_kabuli_chr01	32177347	TT	GG	1946735941
SNP_P4_10451_32177468	NC_021160.1	Ca_kabuli_chr01	32177468	TT	CC	1946735943
SNP_P4_10452_32177799	NC_021160.1	Ca_kabuli_chr01	32177799	CC	TT	1946735945
SNP_P4_10453_32179927	NC_021160.1	Ca_kabuli_chr01	32179927	CC	TT	1946735947
SNP_P4_10454_32179929	NC_021160.1	Ca_kabuli_chr01	32179929	AA	GG	1946735949
SNP_P4_10455_32179933	NC_021160.1	Ca_kabuli_chr01	32179933	AA	CC	1946735951
SNP_P4_10456_32179935	NC_021160.1	Ca_kabuli_chr01	32179935	TT	GG	1946735953
SNP_P4_10458_32180045	NC_021160.1	Ca_kabuli_chr01	32180045	AA	TT	1946735955
SNP_P4_10459_32180064	NC_021160.1	Ca_kabuli_chr01	32180064	AA	GG	1946735957
SNP_P4_10460_32183847	NC_021160.1	Ca_kabuli_chr01	32183847	TT	AA	1946735959
SNP_P4_10461_32183849	NC_021160.1	Ca_kabuli_chr01	32183849	TT	CC	1946735961
SNP_P4_10462_32183878	NC_021160.1	Ca_kabuli_chr01	32183878	GG	AA	1946735963
SNP_P4_10463_32186801	NC_021160.1	Ca_kabuli_chr01	32186801	AA	TT	1946735965
SNP_P4_10464_32186837	NC_021160.1	Ca_kabuli_chr01	32186837	TT	CC	1946735967
SNP_P4_10465_32186918	NC_021160.1	Ca_kabuli_chr01	32186918	GG	CC	1946735969
SNP_P4_10466_32187205	NC_021160.1	Ca_kabuli_chr01	32187205	GG	TT	1946735971
SNP_P4_10467_32187271	NC_021160.1	Ca_kabuli_chr01	32187271	AA	GG	1946735973
SNP_P4_10468_32187573	NC_021160.1	Ca_kabuli_chr01	32187573	AA	TT	1946735975
SNP_P4_10469_32187574	NC_021160.1	Ca_kabuli_chr01	32187574	TT	GG	1946735977
SNP_P4_10470_32190396	NC_021160.1	Ca_kabuli_chr01	32190396	AA	CC	1946735979
SNP_P4_10471_32191722	NC_021160.1	Ca_kabuli_chr01	32191722	AA	TT	1946735981
SNP_P4_10472_32191775	NC_021160.1	Ca_kabuli_chr01	32191775	AA	TT	1946735983
SNP_P4_10473_32192525	NC_021160.1	Ca_kabuli_chr01	32192525	GG	TT	1946735985
SNP_P4_10474_32193373	NC_021160.1	Ca_kabuli_chr01	32193373	CC	GG	1946735987
SNP_P4_10475_32193378	NC_021160.1	Ca_kabuli_chr01	32193378	CC	AA	1946735989
SNP_P4_10476_32193652	NC_021160.1	Ca_kabuli_chr01	32193652	TT	GG	1946735991
SNP_P4_10477_32194799	NC_021160.1	Ca_kabuli_chr01	32194799	TT	CC	1946735993
SNP_P4_10478_32194804	NC_021160.1	Ca_kabuli_chr01	32194804	TT	CC	1946735995
SNP_P4_10479_32195026	NC_021160.1	Ca_kabuli_chr01	32195026	TT	GG	1946735997
SNP_P4_10480_32195129	NC_021160.1	Ca_kabuli_chr01	32195129	AA	TT	1946735999
SNP_P4_10481_32195230	NC_021160.1	Ca_kabuli_chr01	32195230	CC	TT	1946736001
SNP_P4_10482_32195233	NC_021160.1	Ca_kabuli_chr01	32195233	GG	CC	1946736003
SNP_P4_10483_32195318	NC_021160.1	Ca_kabuli_chr01	32195318	CC	GG	1946736005

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_10486_32196365	NC_021160.1	Ca_kabuli_chr01	32196365	TT	CC	1946736011
SNP_P4_10487_32196585	NC_021160.1	Ca_kabuli_chr01	32196585	TT	CC	1946736013
SNP_P4_10488_32200753	NC_021160.1	Ca_kabuli_chr01	32200753	CC	TT	1946736015
SNP_P4_10489_32203090	NC_021160.1	Ca_kabuli_chr01	32203090	CC	AA	1946736017
SNP_P4_10490_32203095	NC_021160.1	Ca_kabuli_chr01	32203095	TT	CC	1946736019
SNP_P4_10493_32204161	NC_021160.1	Ca_kabuli_chr01	32204161	AA	TT	1946736021
SNP_P4_10494_32221523	NC_021160.1	Ca_kabuli_chr01	32221523	CC	AA	1946736023
SNP_P4_10495_32222246	NC_021160.1	Ca_kabuli_chr01	32222246	AA	GG	1946736025
SNP_P4_10497_32238504	NC_021160.1	Ca_kabuli_chr01	32238504	GG	TT	1946736027
SNP_P4_10498_32239081	NC_021160.1	Ca_kabuli_chr01	32239081	TT	GG	1946736029
SNP_P4_10499_32244072	NC_021160.1	Ca_kabuli_chr01	32244072	AA	TT	1946736031
SNP_P4_10500_32244132	NC_021160.1	Ca_kabuli_chr01	32244132	TT	CC	1946736033
SNP_P4_10501_32244133	NC_021160.1	Ca_kabuli_chr01	32244133	CC	TT	1946736035
SNP_P4_10502_32244175	NC_021160.1	Ca_kabuli_chr01	32244175	CC	TT	1946736037
SNP_P4_10504_32244212	NC_021160.1	Ca_kabuli_chr01	32244212	CC	TT	1946736039
SNP_P4_10505_32244389	NC_021160.1	Ca_kabuli_chr01	32244389	CC	TT	1946736041
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SNP_P4_10508_32245635	NC_021160.1	Ca_kabuli_chr01	32245635	GG	CC	1946736045
SNP_P4_10509_32246795	NC_021160.1	Ca_kabuli_chr01	32246795	AA	GG	1946736048
SNP_P4_10510_32246840	NC_021160.1	Ca_kabuli_chr01	32246840	TT	AA	1946736050
SNP_P4_10513_32255257	NC_021160.1	Ca_kabuli_chr01	32255257	AA	CC	1946736052
SNP_P4_10514_32257168	NC_021160.1	Ca_kabuli_chr01	32257168	CC	TT	1946736053
SNP_P4_10515_32257869	NC_021160.1	Ca_kabuli_chr01	32257869	GG	TT	1946736055
SNP_P4_10516_32259157	NC_021160.1	Ca_kabuli_chr01	32259157	TT	GG	1946736057
SNP_P4_10517_32261029	NC_021160.1	Ca_kabuli_chr01	32261029	TT	GG	1946736059
SNP_P4_10518_32261420	NC_021160.1	Ca_kabuli_chr01	32261420	TT	CC	1946736061
SNP_P4_10519_32261812	NC_021160.1	Ca_kabuli_chr01	32261812	GG	AA	1946736063
SNP_P4_10521_32266393	NC_021160.1	Ca_kabuli_chr01	32266393	GG	AA	1946736065
SNP_P4_10523_32266571	NC_021160.1	Ca_kabuli_chr01	32266571	AA	TT	1946736067
SNP_P4_10524_32266599	NC_021160.1	Ca_kabuli_chr01	32266599	CC	TT	1946736069
SNP_P4_10525_32266613	NC_021160.1	Ca_kabuli_chr01	32266613	CC	AA	1946736071
SNP_P4_10526_32266870	NC_021160.1	Ca_kabuli_chr01	32266870	GG	CC	1946736073
SNP_P4_10528_32267760	NC_021160.1	Ca_kabuli_chr01	32267760	GG	AA	1946736075
SNP_P4_10529_32268085	NC_021160.1	Ca_kabuli_chr01	32268085	AA	GG	1946736077
SNP_P4_10530_32268092	NC_021160.1	Ca_kabuli_chr01	32268092	GG	CC	1946736079
SNP_P4_10531_32268645	NC_021160.1	Ca_kabuli_chr01	32268645	AA	TT	1946736081
SNP_P4_10532_32268969	NC_021160.1	Ca_kabuli_chr01	32268969	AA	TT	1946736083
SNP_P4_10533_32273878	NC_021160.1	Ca_kabuli_chr01	32273878	AA	TT	1946736085
SNP_P4_10534_32273982	NC_021160.1	Ca_kabuli_chr01	32273982	AA	CC	1946736087
SNP_P4_10535_32274032	NC_021160.1	Ca_kabuli_chr01	32274032	CC	TT	1946736089

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_10537_32281380	NC_021160.1	Ca_kabuli_chr01	32281380	AA	TT	1946736094
SNP_P4_10538_32281567	NC_021160.1	Ca_kabuli_chr01	32281567	AA	GG	1946736096
SNP_P4_10539_32281602	NC_021160.1	Ca_kabuli_chr01	32281602	GG	AA	1946736098
SNP_P4_10541_32281683	NC_021160.1	Ca_kabuli_chr01	32281683	CC	TT	1946736100
SNP_P4_10542_32281797	NC_021160.1	Ca_kabuli_chr01	32281797	GG	AA	1946736101
SNP_P4_10543_32281800	NC_021160.1	Ca_kabuli_chr01	32281800	TT	AA	1946736103
SNP_P4_10544_32282005	NC_021160.1	Ca_kabuli_chr01	32282005	TT	GG	1946736105
SNP_P4_10545_32282059	NC_021160.1	Ca_kabuli_chr01	32282059	GG	AA	1946736107
SNP_P4_10546_32282063	NC_021160.1	Ca_kabuli_chr01	32282063	AA	CC	1946736109
SNP_P4_10547_32282861	NC_021160.1	Ca_kabuli_chr01	32282861	CC	TT	1946736111
SNP_P4_10548_32282880	NC_021160.1	Ca_kabuli_chr01	32282880	TT	GG	1946736113
SNP_P4_10549_32283198	NC_021160.1	Ca_kabuli_chr01	32283198	CC	GG	1946736115
SNP_P4_10550_32283629	NC_021160.1	Ca_kabuli_chr01	32283629	AA	TT	1946736117
SNP_P4_10551_32283939	NC_021160.1	Ca_kabuli_chr01	32283939	CC	GG	1946736119
SNP_P4_10552_32286534	NC_021160.1	Ca_kabuli_chr01	32286534	GG	CC	1946736121
SNP_P4_10553_32286535	NC_021160.1	Ca_kabuli_chr01	32286535	GG	AA	1946736123
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SNP_P4_10555_32286545	NC_021160.1	Ca_kabuli_chr01	32286545	AA	GG	1946736127
SNP_P4_10556_32286555	NC_021160.1	Ca_kabuli_chr01	32286555	TT	CC	1946736129
SNP_P4_10557_32286718	NC_021160.1	Ca_kabuli_chr01	32286718	AA	GG	1946736131
SNP_P4_10558_32287003	NC_021160.1	Ca_kabuli_chr01	32287003	AA	GG	1946736133
SNP_P4_10559_32287044	NC_021160.1	Ca_kabuli_chr01	32287044	TT	GG	1946736135
SNP_P4_10560_32300220	NC_021160.1	Ca_kabuli_chr01	32300220	GG	AA	1946736136
SNP_P4_10561_32300319	NC_021160.1	Ca_kabuli_chr01	32300319	CC	TT	1946736138
SNP_P4_10562_32300771	NC_021160.1	Ca_kabuli_chr01	32300771	GG	AA	1946736140
SNP_P4_10563_32301100	NC_021160.1	Ca_kabuli_chr01	32301100	TT	CC	1946736142
SNP_P4_10564_32301103	NC_021160.1	Ca_kabuli_chr01	32301103	AA	CC	1946736144
SNP_P4_10565_32301267	NC_021160.1	Ca_kabuli_chr01	32301267	TT	CC	1946736146
SNP_P4_10566_32301601	NC_021160.1	Ca_kabuli_chr01	32301601	TT	CC	1946736148
SNP_P4_10567_32312218	NC_021160.1	Ca_kabuli_chr01	32312218	GG	AA	1946736150
SNP_P4_10568_32312540	NC_021160.1	Ca_kabuli_chr01	32312540	AA	CC	1946736152
SNP_P4_10569_32312590	NC_021160.1	Ca_kabuli_chr01	32312590	GG	AA	1946736154
SNP_P4_10570_32312657	NC_021160.1	Ca_kabuli_chr01	32312657	TT	CC	1946736156
SNP_P4_10571_32312839	NC_021160.1	Ca_kabuli_chr01	32312839	AA	TT	1946736158
SNP_P4_10572_32387477	NC_021160.1	Ca_kabuli_chr01	32387477	TT	CC	1946736160
SNP_P4_10574_32413628	NC_021160.1	Ca_kabuli_chr01	32413628	GG	AA	1946736161
SNP_P4_10575_32424628	NC_021160.1	Ca_kabuli_chr01	32424628	GG	AA	1946736163
SNP_P4_10576_32428589	NC_021160.1	Ca_kabuli_chr01	32428589	TT	CC	1946736165
SNP_P4_10579_32453880	NC_021160.1	Ca_kabuli_chr01	32453880	CC	AA	1946736167
SNP_P4_10580_32454109	NC_021160.1	Ca_kabuli_chr01	32454109	TT	CC	1946736169
SNP_P4_10582_32454431	NC_021160.1	Ca_kabuli_chr01	32454431	AA	TT	1946736171

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_10584_32454434	NC_021160.1	Ca_kabuli_chr01	32454434	TT	CC	1946736175
SNP_P4_10585_32454438	NC_021160.1	Ca_kabuli_chr01	32454438	GG	AA	1946736177
SNP_P4_10586_32454477	NC_021160.1	Ca_kabuli_chr01	32454477	CC	AA	1946736179
SNP_P4_10587_32475181	NC_021160.1	Ca_kabuli_chr01	32475181	GG	TT	1946736181
SNP_P4_10588_32477614	NC_021160.1	Ca_kabuli_chr01	32477614	AA	GG	1946736183
SNP_P4_10589_32505782	NC_021160.1	Ca_kabuli_chr01	32505782	GG	CC	1946736185
SNP_P4_10591_32573050	NC_021160.1	Ca_kabuli_chr01	32573050	CC	TT	1946736187
SNP_P4_10592_32606595	NC_021160.1	Ca_kabuli_chr01	32606595	CC	TT	1946736189
SNP_P4_10593_32606608	NC_021160.1	Ca_kabuli_chr01	32606608	TT	CC	1946736191
SNP_P4_10594_32606612	NC_021160.1	Ca_kabuli_chr01	32606612	GG	AA	1946736193
SNP_P4_10595_32606704	NC_021160.1	Ca_kabuli_chr01	32606704	AA	CC	1946736195
SNP_P4_10596_32750625	NC_021160.1	Ca_kabuli_chr01	32750625	TT	CC	1946736197
SNP_P4_10597_32751825	NC_021160.1	Ca_kabuli_chr01	32751825	GG	TT	1946736199
SNP_P4_10598_32758368	NC_021160.1	Ca_kabuli_chr01	32758368	CC	TT	1946736201
SNP_P4_10599_32758587	NC_021160.1	Ca_kabuli_chr01	32758587	AA	TT	1946736203
SNP_P4_10601_32758640	NC_021160.1	Ca_kabuli_chr01	32758640	CC	TT	1946736205
SNP_P4_10602_32758642	NC_021160.1	Ca_kabuli_chr01	32758642	AA	TT	1946736207
SNP_P4_10603_32758692	NC_021160.1	Ca_kabuli_chr01	32758692	GG	AA	1946736209
SNP_P4_10604_32758715	NC_021160.1	Ca_kabuli_chr01	32758715	GG	CC	1946736211
SNP_P4_10605_32758718	NC_021160.1	Ca_kabuli_chr01	32758718	AA	GG	1946736213
SNP_P4_10606_32758734	NC_021160.1	Ca_kabuli_chr01	32758734	TT	AA	1946736215
SNP_P4_10607_32758770	NC_021160.1	Ca_kabuli_chr01	32758770	GG	AA	1946736217
SNP_P4_10608_32758773	NC_021160.1	Ca_kabuli_chr01	32758773	AA	GG	1946736219
SNP_P4_10609_32758781	NC_021160.1	Ca_kabuli_chr01	32758781	CC	TT	1946736221
SNP_P4_10610_32758861	NC_021160.1	Ca_kabuli_chr01	32758861	TT	AA	1946736223
SNP_P4_10611_32765117	NC_021160.1	Ca_kabuli_chr01	32765117	AA	GG	1946736225
SNP_P4_10612_32765169	NC_021160.1	Ca_kabuli_chr01	32765169	CC	TT	1946736227
SNP_P4_10613_32765170	NC_021160.1	Ca_kabuli_chr01	32765170	CC	AA	1946736229
SNP_P4_10614_32777777	NC_021160.1	Ca_kabuli_chr01	32777777	TT	CC	1946736231
SNP_P4_10615_32788466	NC_021160.1	Ca_kabuli_chr01	32788466	TT	AA	1946736233
SNP_P4_10616_32788553	NC_021160.1	Ca_kabuli_chr01	32788553	AA	TT	1946736235
SNP_P4_10617_32796080	NC_021160.1	Ca_kabuli_chr01	32796080	TT	GG	1946736237
SNP_P4_10618_32796086	NC_021160.1	Ca_kabuli_chr01	32796086	TT	CC	1946736239
SNP_P4_10619_32798758	NC_021160.1	Ca_kabuli_chr01	32798758	CC	TT	1946736241
SNP_P4_10620_32798760	NC_021160.1	Ca_kabuli_chr01	32798760	AA	CC	1946736243
SNP_P4_10621_32798821	NC_021160.1	Ca_kabuli_chr01	32798821	TT	GG	1946736245
SNP_P4_10623_32807873	NC_021160.1	Ca_kabuli_chr01	32807873	AA	GG	1946736247
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SNP_P4_10625_32810187	NC_021160.1	Ca_kabuli_chr01	32810187	CC	GG	1946736250
SNP_P4_10626_32813860	NC_021160.1	Ca_kabuli_chr01	32813860	CC	TT	1946736253
SNP_P4_10627_32814184	NC_021160.1	Ca_kabuli_chr01	32814184	GG	AA	1946736255

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_10630_32834033	NC_021160.1	Ca_kabuli_chr01	32834033	TT	CC	1946736258
SNP_P4_10631_32834099	NC_021160.1	Ca_kabuli_chr01	32834099	AA	GG	1946736260
SNP_P4_10632_32835976	NC_021160.1	Ca_kabuli_chr01	32835976	GG	AA	1946736262
SNP_P4_10633_32835981	NC_021160.1	Ca_kabuli_chr01	32835981	CC	GG	1946736264
SNP_P4_10634_32836015	NC_021160.1	Ca_kabuli_chr01	32836015	GG	TT	1946736266
SNP_P4_10635_32836022	NC_021160.1	Ca_kabuli_chr01	32836022	CC	TT	1946736268
SNP_P4_10636_32836024	NC_021160.1	Ca_kabuli_chr01	32836024	AA	TT	1946736270
SNP_P4_10637_32847827	NC_021160.1	Ca_kabuli_chr01	32847827	TT	AA	1946736272
SNP_P4_10638_32847829	NC_021160.1	Ca_kabuli_chr01	32847829	CC	TT	1946736274
SNP_P4_10639_32849558	NC_021160.1	Ca_kabuli_chr01	32849558	TT	CC	1946736276
SNP_P4_10640_32856815	NC_021160.1	Ca_kabuli_chr01	32856815	GG	CC	1946736278
SNP_P4_10641_32856826	NC_021160.1	Ca_kabuli_chr01	32856826	TT	CC	1946736280
SNP_P4_10643_32863974	NC_021160.1	Ca_kabuli_chr01	32863974	GG	AA	1946736282
SNP_P4_10644_32864304	NC_021160.1	Ca_kabuli_chr01	32864304	AA	GG	1946736284
SNP_P4_10645_32867502	NC_021160.1	Ca_kabuli_chr01	32867502	TT	CC	1946736286
SNP_P4_10646_32867652	NC_021160.1	Ca_kabuli_chr01	32867652	CC	GG	1946736288
SNP_P4_10647_32867676	NC_021160.1	Ca_kabuli_chr01	32867676	AA	GG	1946736290
SNP_P4_10648_32867899	NC_021160.1	Ca_kabuli_chr01	32867899	AA	CC	1946736292
SNP_P4_10649_32868368	NC_021160.1	Ca_kabuli_chr01	32868368	GG	AA	1946736294
SNP_P4_10650_32868392	NC_021160.1	Ca_kabuli_chr01	32868392	TT	CC	1946736296
SNP_P4_10651_32868520	NC_021160.1	Ca_kabuli_chr01	32868520	AA	TT	1946736298
SNP_P4_10652_32868553	NC_021160.1	Ca_kabuli_chr01	32868553	CC	GG	1946736300
SNP_P4_10653_32868656	NC_021160.1	Ca_kabuli_chr01	32868656	TT	GG	1946736301
SNP_P4_10654_32868694	NC_021160.1	Ca_kabuli_chr01	32868694	TT	CC	1946736303
SNP_P4_10655_32885517	NC_021160.1	Ca_kabuli_chr01	32885517	AA	GG	1946736305
SNP_P4_10656_32888052	NC_021160.1	Ca_kabuli_chr01	32888052	AA	TT	1946736307
SNP_P4_10657_32905658	NC_021160.1	Ca_kabuli_chr01	32905658	CC	TT	1946736309
SNP_P4_10658_32905659	NC_021160.1	Ca_kabuli_chr01	32905659	AA	TT	1946736311
SNP_P4_10659_32905662	NC_021160.1	Ca_kabuli_chr01	32905662	TT	AA	1946736313
SNP_P4_10660_32905710	NC_021160.1	Ca_kabuli_chr01	32905710	GG	CC	1946736315
SNP_P4_10663_32910119	NC_021160.1	Ca_kabuli_chr01	32910119	TT	CC	1946736317
SNP_P4_10665_32913801	NC_021160.1	Ca_kabuli_chr01	32913801	GG	TT	1946736319
SNP_P4_10666_32914427	NC_021160.1	Ca_kabuli_chr01	32914427	TT	CC	1946736321
SNP_P4_10667_32914665	NC_021160.1	Ca_kabuli_chr01	32914665	CC	TT	1946736323
SNP_P4_10669_32917943	NC_021160.1	Ca_kabuli_chr01	32917943	TT	CC	1946736325
SNP_P4_10670_32918070	NC_021160.1	Ca_kabuli_chr01	32918070	AA	GG	1946736326
SNP_P4_10671_32918785	NC_021160.1	Ca_kabuli_chr01	32918785	AA	TT	1946736328
SNP_P4_10673_32921979	NC_021160.1	Ca_kabuli_chr01	32921979	GG	CC	1946736330
SNP_P4_10674_32922922	NC_021160.1	Ca_kabuli_chr01	32922922	CC	TT	1946736332
SNP_P4_10675_32922935	NC_021160.1	Ca_kabuli_chr01	32922935	AA	GG	1946736334
SNP_P4_10676_32931287	NC_021160.1	Ca_kabuli_chr01	32931287	CC	GG	1946736336

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_10678_32936047	NC_021160.1	Ca_kabuli_chr01	32936047	CC	TT	1946736340
SNP_P4_10679_32936346	NC_021160.1	Ca_kabuli_chr01	32936346	TT	AA	1946736342
SNP_P4_10680_32937352	NC_021160.1	Ca_kabuli_chr01	32937352	AA	GG	1946736344
SNP_P4_10681_32937571	NC_021160.1	Ca_kabuli_chr01	32937571	CC	GG	1946736346
SNP_P4_10683_32939834	NC_021160.1	Ca_kabuli_chr01	32939834	GG	TT	1946736348
SNP_P4_10684_32941061	NC_021160.1	Ca_kabuli_chr01	32941061	AA	GG	1946736349
SNP_P4_10685_32941095	NC_021160.1	Ca_kabuli_chr01	32941095	AA	GG	1946736351
SNP_P4_10686_32941412	NC_021160.1	Ca_kabuli_chr01	32941412	GG	CC	1946736353
SNP_P4_10687_32941521	NC_021160.1	Ca_kabuli_chr01	32941521	TT	CC	1946736355
SNP_P4_10688_32942078	NC_021160.1	Ca_kabuli_chr01	32942078	TT	CC	1946736357
SNP_P4_10689_32942418	NC_021160.1	Ca_kabuli_chr01	32942418	TT	CC	1946736359
SNP_P4_10690_32949227	NC_021160.1	Ca_kabuli_chr01	32949227	AA	CC	1946736361
SNP_P4_10691_32949853	NC_021160.1	Ca_kabuli_chr01	32949853	CC	TT	1946736363
SNP_P4_10692_32950484	NC_021160.1	Ca_kabuli_chr01	32950484	GG	AA	1946736365
SNP_P4_10693_32950588	NC_021160.1	Ca_kabuli_chr01	32950588	AA	GG	1946736367
SNP_P4_10694_32950848	NC_021160.1	Ca_kabuli_chr01	32950848	AA	GG	1946736369
SNP_P4_10695_32950891	NC_021160.1	Ca_kabuli_chr01	32950891	AA	GG	1946736371
SNP_P4_10696_32951347	NC_021160.1	Ca_kabuli_chr01	32951347	CC	GG	1946736373
SNP_P4_10697_32957360	NC_021160.1	Ca_kabuli_chr01	32957360	CC	GG	1946736375
SNP_P4_10698_32957577	NC_021160.1	Ca_kabuli_chr01	32957577	TT	AA	1946736377
SNP_P4_10699_32957590	NC_021160.1	Ca_kabuli_chr01	32957590	GG	CC	1946736379
SNP_P4_10700_32957603	NC_021160.1	Ca_kabuli_chr01	32957603	GG	AA	1946736381
SNP_P4_10701_32957652	NC_021160.1	Ca_kabuli_chr01	32957652	TT	CC	1946736383
SNP_P4_10702_32957728	NC_021160.1	Ca_kabuli_chr01	32957728	AA	GG	1946736385
SNP_P4_10703_32957757	NC_021160.1	Ca_kabuli_chr01	32957757	TT	GG	1946736387
SNP_P4_10704_32958431	NC_021160.1	Ca_kabuli_chr01	32958431	GG	AA	1946736389
SNP_P4_10705_32964652	NC_021160.1	Ca_kabuli_chr01	32964652	CC	TT	1946736391
SNP_P4_10706_32964809	NC_021160.1	Ca_kabuli_chr01	32964809	TT	CC	1946736393
SNP_P4_10708_32973886	NC_021160.1	Ca_kabuli_chr01	32973886	GG	CC	1946736395
SNP_P4_10709_32974240	NC_021160.1	Ca_kabuli_chr01	32974240	CC	TT	1946736396
SNP_P4_10710_32976018	NC_021160.1	Ca_kabuli_chr01	32976018	AA	GG	1946736398
SNP_P4_10711_32977228	NC_021160.1	Ca_kabuli_chr01	32977228	GG	TT	1946736400
SNP_P4_10712_32981246	NC_021160.1	Ca_kabuli_chr01	32981246	GG	TT	1946736402
SNP_P4_10713_32981309	NC_021160.1	Ca_kabuli_chr01	32981309	TT	AA	1946736404
SNP_P4_10714_32981502	NC_021160.1	Ca_kabuli_chr01	32981502	TT	CC	1946736406
SNP_P4_10715_32981721	NC_021160.1	Ca_kabuli_chr01	32981721	TT	AA	1946736408
SNP_P4_10716_32981791	NC_021160.1	Ca_kabuli_chr01	32981791	AA	CC	1946736410
SNP_P4_10717_32981823	NC_021160.1	Ca_kabuli_chr01	32981823	TT	CC	1946736412
SNP_P4_10718_32982243	NC_021160.1	Ca_kabuli_chr01	32982243	AA	CC	1946736414
SNP_P4_10719_32983455	NC_021160.1	Ca_kabuli_chr01	32983455	GG	AA	1946736416
SNP_P4_10720_32984083	NC_021160.1	Ca_kabuli_chr01	32984083	GG	TT	1946736417

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_10721_32984121	NC_021160.1	Ca_kabuli_chr01	32984121	AA	GG	1946736419
SNP_P4_10722_32987561	NC_021160.1	Ca_kabuli_chr01	32987561	CC	GG	1946736421
SNP_P4_10723_32998380	NC_021160.1	Ca_kabuli_chr01	32998380	CC	AA	1946736423
SNP_P4_10724_32998589	NC_021160.1	Ca_kabuli_chr01	32998589	CC	TT	1946736425
SNP_P4_10725_32998736	NC_021160.1	Ca_kabuli_chr01	32998736	TT	GG	1946736427
SNP_P4_10726_32998815	NC_021160.1	Ca_kabuli_chr01	32998815	AA	GG	1946736429
SNP_P4_10727_33001296	NC_021160.1	Ca_kabuli_chr01	33001296	AA	GG	1946736431
SNP_P4_10728_33004285	NC_021160.1	Ca_kabuli_chr01	33004285	CC	TT	1946736433
SNP_P4_10729_33006065	NC_021160.1	Ca_kabuli_chr01	33006065	CC	TT	1946736434
SNP_P4_10730_33008263	NC_021160.1	Ca_kabuli_chr01	33008263	CC	TT	1946736436
SNP_P4_10731_33008475	NC_021160.1	Ca_kabuli_chr01	33008475	AA	GG	1946736438
SNP_P4_10732_33008987	NC_021160.1	Ca_kabuli_chr01	33008987	TT	CC	1946736440
SNP_P4_10734_33019147	NC_021160.1	Ca_kabuli_chr01	33019147	AA	CC	1946736442
SNP_P4_10735_33019157	NC_021160.1	Ca_kabuli_chr01	33019157	AA	GG	1946736444
SNP_P4_10736_33019614	NC_021160.1	Ca_kabuli_chr01	33019614	CC	TT	1946736446
SNP_P4_10737_33019665	NC_021160.1	Ca_kabuli_chr01	33019665	AA	GG	1946736448
SNP_P4_10738_33020078	NC_021160.1	Ca_kabuli_chr01	33020078	TT	CC	1946736450
SNP_P4_10739_33033860	NC_021160.1	Ca_kabuli_chr01	33033860	GG	AA	1946736452
SNP_P4_10741_33034907	NC_021160.1	Ca_kabuli_chr01	33034907	AA	GG	1946736454
SNP_P4_10742_33035110	NC_021160.1	Ca_kabuli_chr01	33035110	GG	AA	1946736456
SNP_P4_10743_33041047	NC_021160.1	Ca_kabuli_chr01	33041047	AA	GG	1946736458
SNP_P4_10744_33041714	NC_021160.1	Ca_kabuli_chr01	33041714	TT	CC	1946736460
SNP_P4_10745_33050180	NC_021160.1	Ca_kabuli_chr01	33050180	TT	CC	1946736462
SNP_P4_10746_33054193	NC_021160.1	Ca_kabuli_chr01	33054193	AA	TT	1946736464
SNP_P4_10749_33063507	NC_021160.1	Ca_kabuli_chr01	33063507	TT	CC	1946736466
SNP_P4_10750_33075675	NC_021160.1	Ca_kabuli_chr01	33075675	GG	AA	1946736468
SNP_P4_10751_33080367	NC_021160.1	Ca_kabuli_chr01	33080367	GG	AA	1946736470
SNP_P4_10752_33082442	NC_021160.1	Ca_kabuli_chr01	33082442	TT	CC	1946736472
SNP_P4_10753_33082803	NC_021160.1	Ca_kabuli_chr01	33082803	TT	CC	1946736474
SNP_P4_10754_33082968	NC_021160.1	Ca_kabuli_chr01	33082968	GG	AA	1946736476
SNP_P4_10755_33083290	NC_021160.1	Ca_kabuli_chr01	33083290	GG	AA	1946736478
SNP_P4_10756_33088946	NC_021160.1	Ca_kabuli_chr01	33088946	CC	TT	1946736480
SNP_P4_10757_33090206	NC_021160.1	Ca_kabuli_chr01	33090206	CC	TT	1946736482
SNP_P4_10758_33092829	NC_021160.1	Ca_kabuli_chr01	33092829	TT	CC	1946736484
SNP_P4_10759_33093760	NC_021160.1	Ca_kabuli_chr01	33093760	AA	GG	1946736486
SNP_P4_10760_33094008	NC_021160.1	Ca_kabuli_chr01	33094008	CC	TT	1946736488
SNP_P4_10761_33094894	NC_021160.1	Ca_kabuli_chr01	33094894	GG	TT	1946736489
SNP_P4_10762_33095066	NC_021160.1	Ca_kabuli_chr01	33095066	GG	AA	1946736492
SNP_P4_10763_33095303	NC_021160.1	Ca_kabuli_chr01	33095303	AA	CC	1946736494
SNP_P4_10764_33097467	NC_021160.1	Ca_kabuli_chr01	33097467	AA	GG	1946736497
SNP_P4_10765_33100456	NC_021160.1	Ca_kabuli_chr01	33100456	CC	TT	1946736499
SNP_P4_10767_33102597	NC_021160.1	Ca_kabuli_chr01	33102597	GG	TT	1946736501

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_10770_33105702	NC_021160.1	Ca_kabuli_chr01	33105702	CC	TT	1946736505
SNP_P4_10771_33106265	NC_021160.1	Ca_kabuli_chr01	33106265	GG	AA	1946736507
SNP_P4_10772_33116036	NC_021160.1	Ca_kabuli_chr01	33116036	GG	AA	1946736509
SNP_P4_10773_33116134	NC_021160.1	Ca_kabuli_chr01	33116134	CC	AA	1946736511
SNP_P4_10775_33119286	NC_021160.1	Ca_kabuli_chr01	33119286	GG	CC	1946736513
SNP_P4_10776_33119641	NC_021160.1	Ca_kabuli_chr01	33119641	AA	CC	1946736515
SNP_P4_10777_33120146	NC_021160.1	Ca_kabuli_chr01	33120146	GG	AA	1946736517
SNP_P4_10778_33120242	NC_021160.1	Ca_kabuli_chr01	33120242	CC	TT	1946736519
SNP_P4_10779_33125110	NC_021160.1	Ca_kabuli_chr01	33125110	TT	AA	1946736521
SNP_P4_10780_33126219	NC_021160.1	Ca_kabuli_chr01	33126219	GG	AA	1946736523
SNP_P4_10781_33126752	NC_021160.1	Ca_kabuli_chr01	33126752	CC	TT	1946736525
SNP_P4_10782_33127392	NC_021160.1	Ca_kabuli_chr01	33127392	AA	GG	1946736527
SNP_P4_10783_33127949	NC_021160.1	Ca_kabuli_chr01	33127949	TT	CC	1946736529
SNP_P4_10784_33129493	NC_021160.1	Ca_kabuli_chr01	33129493	GG	TT	1946736531
SNP_P4_10785_33129615	NC_021160.1	Ca_kabuli_chr01	33129615	CC	TT	1946736533
SNP_P4_10786_33129622	NC_021160.1	Ca_kabuli_chr01	33129622	CC	TT	1946736535
SNP_P4_10787_33129967	NC_021160.1	Ca_kabuli_chr01	33129967	CC	AA	1946736537
SNP_P4_10788_33129995	NC_021160.1	Ca_kabuli_chr01	33129995	GG	AA	1946736539
SNP_P4_10790_33134673	NC_021160.1	Ca_kabuli_chr01	33134673	AA	GG	1946736541
SNP_P4_10791_33134763	NC_021160.1	Ca_kabuli_chr01	33134763	AA	TT	1946736543
SNP_P4_10792_33134774	NC_021160.1	Ca_kabuli_chr01	33134774	AA	TT	1946736545
SNP_P4_10793_33140287	NC_021160.1	Ca_kabuli_chr01	33140287	AA	GG	1946736547
SNP_P4_10794_33140317	NC_021160.1	Ca_kabuli_chr01	33140317	GG	AA	1946736549
SNP_P4_10795_33140561	NC_021160.1	Ca_kabuli_chr01	33140561	AA	GG	1946736551
SNP_P4_10796_33142191	NC_021160.1	Ca_kabuli_chr01	33142191	TT	CC	1946736553
SNP_P4_10798_33146608	NC_021160.1	Ca_kabuli_chr01	33146608	TT	AA	1946736555
SNP_P4_10799_33146615	NC_021160.1	Ca_kabuli_chr01	33146615	AA	TT	1946736557
SNP_P4_10800_33148023	NC_021160.1	Ca_kabuli_chr01	33148023	GG	CC	1946736559
SNP_P4_10801_33154299	NC_021160.1	Ca_kabuli_chr01	33154299	GG	AA	1946736561
SNP_P4_10802_33159046	NC_021160.1	Ca_kabuli_chr01	33159046	AA	GG	1946736563
SNP_P4_10803_33159070	NC_021160.1	Ca_kabuli_chr01	33159070	AA	GG	1946736565
SNP_P4_10804_33159446	NC_021160.1	Ca_kabuli_chr01	33159446	CC	TT	1946736567
SNP_P4_10805_33159709	NC_021160.1	Ca_kabuli_chr01	33159709	CC	TT	1946736569
SNP_P4_10806_33159757	NC_021160.1	Ca_kabuli_chr01	33159757	GG	TT	1946736571
SNP_P4_10807_33160509	NC_021160.1	Ca_kabuli_chr01	33160509	CC	AA	1946736573
SNP_P4_10808_33162405	NC_021160.1	Ca_kabuli_chr01	33162405	TT	CC	1946736575
SNP_P4_10809_33162980	NC_021160.1	Ca_kabuli_chr01	33162980	GG	TT	1946736577
SNP_P4_10810_33163106	NC_021160.1	Ca_kabuli_chr01	33163106	TT	CC	1946736579
SNP_P4_10811_33164765	NC_021160.1	Ca_kabuli_chr01	33164765	GG	AA	1946736581
SNP_P4_10812_33167637	NC_021160.1	Ca_kabuli_chr01	33167637	TT	CC	1946736583
SNP_P4_10813_33167731	NC_021160.1	Ca_kabuli_chr01	33167731	AA	TT	1946736585

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_10815_33172369	NC_021160.1	Ca_kabuli_chr01	33172369	AA	TT	1946736589
SNP_P4_10816_33180710	NC_021160.1	Ca_kabuli_chr01	33180710	GG	AA	1946736592
SNP_P4_10817_33182912	NC_021160.1	Ca_kabuli_chr01	33182912	TT	CC	1946736594
SNP_P4_10818_33183717	NC_021160.1	Ca_kabuli_chr01	33183717	TT	CC	1946736596
SNP_P4_10819_33183742	NC_021160.1	Ca_kabuli_chr01	33183742	AA	TT	1946736598
SNP_P4_10820_33184163	NC_021160.1	Ca_kabuli_chr01	33184163	AA	GG	1946736600
SNP_P4_10821_33185625	NC_021160.1	Ca_kabuli_chr01	33185625	AA	GG	1946736602
SNP_P4_10822_33186713	NC_021160.1	Ca_kabuli_chr01	33186713	TT	GG	1946736604
SNP_P4_10823_33186843	NC_021160.1	Ca_kabuli_chr01	33186843	TT	GG	1946736606
SNP_P4_10825_33195926	NC_021160.1	Ca_kabuli_chr01	33195926	CC	TT	1946736608
SNP_P4_10826_33197142	NC_021160.1	Ca_kabuli_chr01	33197142	TT	CC	1946736610
SNP_P4_10827_33199943	NC_021160.1	Ca_kabuli_chr01	33199943	TT	CC	1946736612
SNP_P4_10828_33203865	NC_021160.1	Ca_kabuli_chr01	33203865	TT	GG	1946736614
SNP_P4_10829_33207715	NC_021160.1	Ca_kabuli_chr01	33207715	CC	TT	1946736616
SNP_P4_10830_33207749	NC_021160.1	Ca_kabuli_chr01	33207749	TT	GG	1946736618
SNP_P4_10831_33207771	NC_021160.1	Ca_kabuli_chr01	33207771	GG	AA	1946736620
SNP_P4_10832_33226876	NC_021160.1	Ca_kabuli_chr01	33226876	AA	GG	1946736622
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SNP_P4_10834_33231150	NC_021160.1	Ca_kabuli_chr01	33231150	GG	AA	1946736626
SNP_P4_10835_33237205	NC_021160.1	Ca_kabuli_chr01	33237205	CC	AA	1946736628
SNP_P4_10838_33241421	NC_021160.1	Ca_kabuli_chr01	33241421	CC	TT	1946736630
SNP_P4_10839_33241489	NC_021160.1	Ca_kabuli_chr01	33241489	TT	GG	1946736632
SNP_P4_10841_33245109	NC_021160.1	Ca_kabuli_chr01	33245109	AA	GG	1946736634
SNP_P4_10844_33247694	NC_021160.1	Ca_kabuli_chr01	33247694	GG	AA	1946736636
SNP_P4_10845_33251259	NC_021160.1	Ca_kabuli_chr01	33251259	AA	TT	1946736638
SNP_P4_10846_33253147	NC_021160.1	Ca_kabuli_chr01	33253147	TT	AA	1946736640
SNP_P4_10847_33253349	NC_021160.1	Ca_kabuli_chr01	33253349	TT	GG	1946736642
SNP_P4_10848_33253354	NC_021160.1	Ca_kabuli_chr01	33253354	AA	GG	1946736644
SNP_P4_10849_33255188	NC_021160.1	Ca_kabuli_chr01	33255188	AA	TT	1946736646
SNP_P4_10850_33255240	NC_021160.1	Ca_kabuli_chr01	33255240	CC	TT	1946736648
SNP_P4_10851_33257645	NC_021160.1	Ca_kabuli_chr01	33257645	CC	AA	1946736650
SNP_P4_10852_33258501	NC_021160.1	Ca_kabuli_chr01	33258501	TT	AA	1946736652
SNP_P4_10853_33258619	NC_021160.1	Ca_kabuli_chr01	33258619	AA	GG	1946736655
SNP_P4_10854_33258718	NC_021160.1	Ca_kabuli_chr01	33258718	TT	CC	1946736657
SNP_P4_10855_33258801	NC_021160.1	Ca_kabuli_chr01	33258801	AA	GG	1946736659
SNP_P4_10856_33258905	NC_021160.1	Ca_kabuli_chr01	33258905	TT	CC	1946736661
SNP_P4_10858_33261846	NC_021160.1	Ca_kabuli_chr01	33261846	AA	GG	1946736663
SNP_P4_10859_33261870	NC_021160.1	Ca_kabuli_chr01	33261870	GG	AA	1946736665
SNP_P4_10860_33261966	NC_021160.1	Ca_kabuli_chr01	33261966	AA	GG	1946736667
SNP_P4_10861_33268482	NC_021160.1	Ca_kabuli_chr01	33268482	AA	GG	1946736669
SNP_P4_10862_33268582	NC_021160.1	Ca_kabuli_chr01	33268582	TT	CC	1946736671

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_10865_33269574	NC_021160.1	Ca_kabuli_chr01	33269574	AA	TT	1946736675
SNP_P4_10866_33269607	NC_021160.1	Ca_kabuli_chr01	33269607	GG	TT	1946736677
SNP_P4_10867_33269818	NC_021160.1	Ca_kabuli_chr01	33269818	AA	GG	1946736679
SNP_P4_10868_33271892	NC_021160.1	Ca_kabuli_chr01	33271892	AA	GG	1946736681
SNP_P4_10869_33277140	NC_021160.1	Ca_kabuli_chr01	33277140	AA	GG	1946736683
SNP_P4_10870_33277726	NC_021160.1	Ca_kabuli_chr01	33277726	GG	AA	1946736685
SNP_P4_10871_33278944	NC_021160.1	Ca_kabuli_chr01	33278944	CC	TT	1946736687
SNP_P4_10872_33283315	NC_021160.1	Ca_kabuli_chr01	33283315	TT	CC	1946736689
SNP_P4_10873_33283333	NC_021160.1	Ca_kabuli_chr01	33283333	GG	TT	1946736691
SNP_P4_10874_33283376	NC_021160.1	Ca_kabuli_chr01	33283376	AA	GG	1946736693
SNP_P4_10875_33283398	NC_021160.1	Ca_kabuli_chr01	33283398	CC	TT	1946736695
SNP_P4_10876_33283740	NC_021160.1	Ca_kabuli_chr01	33283740	AA	GG	1946736697
SNP_P4_10877_33285598	NC_021160.1	Ca_kabuli_chr01	33285598	CC	AA	1946736699
SNP_P4_10879_33286492	NC_021160.1	Ca_kabuli_chr01	33286492	GG	AA	1946736701
SNP_P4_10880_33288039	NC_021160.1	Ca_kabuli_chr01	33288039	TT	CC	1946736703
SNP_P4_10881_33288105	NC_021160.1	Ca_kabuli_chr01	33288105	AA	CC	1946736705
SNP_P4_10882_33288111	NC_021160.1	Ca_kabuli_chr01	33288111	TT	CC	1946736707
SNP_P4_10883_33288159	NC_021160.1	Ca_kabuli_chr01	33288159	TT	GG	1946736709
SNP_P4_10884_33288297	NC_021160.1	Ca_kabuli_chr01	33288297	CC	AA	1946736711
SNP_P4_10885_33289312	NC_021160.1	Ca_kabuli_chr01	33289312	GG	AA	1946736713
SNP_P4_10886_33290592	NC_021160.1	Ca_kabuli_chr01	33290592	AA	GG	1946736715
SNP_P4_10887_33291191	NC_021160.1	Ca_kabuli_chr01	33291191	TT	GG	1946736717
SNP_P4_10888_33291530	NC_021160.1	Ca_kabuli_chr01	33291530	CC	TT	1946736719
SNP_P4_10889_33296590	NC_021160.1	Ca_kabuli_chr01	33296590	CC	TT	1946736721
SNP_P4_10890_33297704	NC_021160.1	Ca_kabuli_chr01	33297704	CC	AA	1946736723
SNP_P4_10891_33297837	NC_021160.1	Ca_kabuli_chr01	33297837	GG	AA	1946736725
SNP_P4_10893_33303653	NC_021160.1	Ca_kabuli_chr01	33303653	AA	GG	1946736726
SNP_P4_10894_33303756	NC_021160.1	Ca_kabuli_chr01	33303756	GG	AA	1946736727
SNP_P4_10895_33303922	NC_021160.1	Ca_kabuli_chr01	33303922	CC	TT	1946736728
SNP_P4_10896_33304035	NC_021160.1	Ca_kabuli_chr01	33304035	GG	CC	1946736729
SNP_P4_10897_33306121	NC_021160.1	Ca_kabuli_chr01	33306121	AA	TT	1946736730
SNP_P4_10898_33306126	NC_021160.1	Ca_kabuli_chr01	33306126	AA	GG	1946736731
SNP_P4_10899_33307182	NC_021160.1	Ca_kabuli_chr01	33307182	GG	AA	1946736732
SNP_P4_10900_33307362	NC_021160.1	Ca_kabuli_chr01	33307362	CC	TT	1946736733
SNP_P4_10901_33307367	NC_021160.1	Ca_kabuli_chr01	33307367	CC	TT	1946736734
SNP_P4_10902_33307448	NC_021160.1	Ca_kabuli_chr01	33307448	GG	AA	1946736735
SNP_P4_10903_33307490	NC_021160.1	Ca_kabuli_chr01	33307490	AA	TT	1946736736
SNP_P4_10904_33307711	NC_021160.1	Ca_kabuli_chr01	33307711	CC	TT	1946736737
SNP_P4_10905_33307732	NC_021160.1	Ca_kabuli_chr01	33307732	GG	TT	1946736738
SNP_P4_10906_33307771	NC_021160.1	Ca_kabuli_chr01	33307771	AA	CC	1946736739
SNP_P4_10907_33307844	NC_021160.1	Ca_kabuli_chr01	33307844	TT	CC	1946736740

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_10909_33307871	NC_021160.1	Ca_kabuli_chr01	33307871	AA	GG	1946736742
SNP_P4_10910_33307920	NC_021160.1	Ca_kabuli_chr01	33307920	AA	GG	1946736743
SNP_P4_10911_33307984	NC_021160.1	Ca_kabuli_chr01	33307984	AA	GG	1946736744
SNP_P4_10912_33308014	NC_021160.1	Ca_kabuli_chr01	33308014	TT	CC	1946736745
SNP_P4_10913_33315553	NC_021160.1	Ca_kabuli_chr01	33315553	GG	TT	1946736746
SNP_P4_10914_33320186	NC_021160.1	Ca_kabuli_chr01	33320186	AA	GG	1946736747
SNP_P4_10915_33320279	NC_021160.1	Ca_kabuli_chr01	33320279	GG	AA	1946736748
SNP_P4_10916_33320320	NC_021160.1	Ca_kabuli_chr01	33320320	GG	TT	1946736749
SNP_P4_10917_33321549	NC_021160.1	Ca_kabuli_chr01	33321549	TT	GG	1946736750
SNP_P4_10918_33329012	NC_021160.1	Ca_kabuli_chr01	33329012	TT	AA	1946736751
SNP_P4_10920_33331491	NC_021160.1	Ca_kabuli_chr01	33331491	GG	AA	1946736752
SNP_P4_10922_33333723	NC_021160.1	Ca_kabuli_chr01	33333723	GG	AA	1946736753
SNP_P4_10923_33333785	NC_021160.1	Ca_kabuli_chr01	33333785	AA	GG	1946736754
SNP_P4_10924_33333958	NC_021160.1	Ca_kabuli_chr01	33333958	GG	AA	1946736755
SNP_P4_10926_33339141	NC_021160.1	Ca_kabuli_chr01	33339141	CC	TT	1946736756
SNP_P4_10927_33339320	NC_021160.1	Ca_kabuli_chr01	33339320	AA	CC	1946736757
SNP_P4_10928_33340255	NC_021160.1	Ca_kabuli_chr01	33340255	TT	CC	1946736758
SNP_P4_10929_33340560	NC_021160.1	Ca_kabuli_chr01	33340560	TT	CC	1946736759
SNP_P4_10930_33341309	NC_021160.1	Ca_kabuli_chr01	33341309	AA	GG	1946736760
SNP_P4_10931_33346291	NC_021160.1	Ca_kabuli_chr01	33346291	GG	AA	1946736761
SNP_P4_10932_33346628	NC_021160.1	Ca_kabuli_chr01	33346628	TT	CC	1946736762
SNP_P4_10933_33350431	NC_021160.1	Ca_kabuli_chr01	33350431	CC	TT	1946736763
SNP_P4_10934_33350458	NC_021160.1	Ca_kabuli_chr01	33350458	TT	CC	1946736764
SNP_P4_10935_33350842	NC_021160.1	Ca_kabuli_chr01	33350842	TT	CC	1946736765
SNP_P4_10936_33351404	NC_021160.1	Ca_kabuli_chr01	33351404	TT	CC	1946736766
SNP_P4_10937_33351648	NC_021160.1	Ca_kabuli_chr01	33351648	TT	GG	1946736767
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SNP_P4_10940_33354074	NC_021160.1	Ca_kabuli_chr01	33354074	AA	TT	1946736769
SNP_P4_10942_33357648	NC_021160.1	Ca_kabuli_chr01	33357648	TT	GG	1946736770
SNP_P4_10943_33357708	NC_021160.1	Ca_kabuli_chr01	33357708	TT	GG	1946736771
SNP_P4_10944_33360664	NC_021160.1	Ca_kabuli_chr01	33360664	GG	AA	1946736772
SNP_P4_10945_33365068	NC_021160.1	Ca_kabuli_chr01	33365068	GG	CC	1946736773
SNP_P4_10947_33371086	NC_021160.1	Ca_kabuli_chr01	33371086	GG	AA	1946736774
SNP_P4_10949_33379867	NC_021160.1	Ca_kabuli_chr01	33379867	GG	TT	1946736775
SNP_P4_10951_33380005	NC_021160.1	Ca_kabuli_chr01	33380005	TT	AA	1946736776
SNP_P4_10952_33385860	NC_021160.1	Ca_kabuli_chr01	33385860	GG	AA	1946736777
SNP_P4_10954_33389271	NC_021160.1	Ca_kabuli_chr01	33389271	AA	GG	1946736778
SNP_P4_10955_33389465	NC_021160.1	Ca_kabuli_chr01	33389465	GG	AA	1946736779
SNP_P4_10956_33394216	NC_021160.1	Ca_kabuli_chr01	33394216	GG	TT	1946736780
SNP_P4_10957_33398584	NC_021160.1	Ca_kabuli_chr01	33398584	AA	GG	1946736781
SNP_P4_10958_33400603	NC_021160.1	Ca_kabuli_chr01	33400603	TT	CC	1946736782

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_10961_33402115	NC_021160.1	Ca_kabuli_chr01	33402115	TT	CC	1946736784
SNP_P4_10962_33402228	NC_021160.1	Ca_kabuli_chr01	33402228	GG	AA	1946736785
SNP_P4_10963_33402543	NC_021160.1	Ca_kabuli_chr01	33402543	TT	GG	1946736786
SNP_P4_10964_33407669	NC_021160.1	Ca_kabuli_chr01	33407669	CC	AA	1946736787
SNP_P4_10966_33407796	NC_021160.1	Ca_kabuli_chr01	33407796	AA	GG	1946736788
SNP_P4_10968_33419936	NC_021160.1	Ca_kabuli_chr01	33419936	CC	TT	1946736789
SNP_P4_10969_33421704	NC_021160.1	Ca_kabuli_chr01	33421704	TT	AA	1946736790
SNP_P4_10970_33424601	NC_021160.1	Ca_kabuli_chr01	33424601	GG	AA	1946736791
SNP_P4_10971_33426670	NC_021160.1	Ca_kabuli_chr01	33426670	CC	AA	1946736792
SNP_P4_10972_33442277	NC_021160.1	Ca_kabuli_chr01	33442277	GG	TT	1946736793
SNP_P4_10974_33443266	NC_021160.1	Ca_kabuli_chr01	33443266	GG	CC	1946736794
SNP_P4_10975_33446000	NC_021160.1	Ca_kabuli_chr01	33446000	GG	AA	1946736795
SNP_P4_10977_33452685	NC_021160.1	Ca_kabuli_chr01	33452685	GG	TT	1946736797
SNP_P4_10978_33457363	NC_021160.1	Ca_kabuli_chr01	33457363	GG	AA	1946736799
SNP_P4_10979_33457418	NC_021160.1	Ca_kabuli_chr01	33457418	CC	TT	1946736801
SNP_P4_10980_33457486	NC_021160.1	Ca_kabuli_chr01	33457486	CC	TT	1946736803
SNP_P4_10981_33457493	NC_021160.1	Ca_kabuli_chr01	33457493	AA	GG	1946736805
SNP_P4_10982_33457530	NC_021160.1	Ca_kabuli_chr01	33457530	CC	AA	1946736806
SNP_P4_10983_33458903	NC_021160.1	Ca_kabuli_chr01	33458903	AA	TT	1946736808
SNP_P4_10984_33459119	NC_021160.1	Ca_kabuli_chr01	33459119	AA	GG	1946736810
SNP_P4_10985_33459129	NC_021160.1	Ca_kabuli_chr01	33459129	TT	CC	1946736812
SNP_P4_10986_33459195	NC_021160.1	Ca_kabuli_chr01	33459195	AA	GG	1946736814
SNP_P4_10987_33459378	NC_021160.1	Ca_kabuli_chr01	33459378	AA	GG	1946736816
SNP_P4_10988_33462887	NC_021160.1	Ca_kabuli_chr01	33462887	AA	GG	1946736817
SNP_P4_10989_33462917	NC_021160.1	Ca_kabuli_chr01	33462917	CC	TT	1946736819
SNP_P4_10990_33462989	NC_021160.1	Ca_kabuli_chr01	33462989	TT	GG	1946736821
SNP_P4_10991_33465500	NC_021160.1	Ca_kabuli_chr01	33465500	CC	TT	1946736823
SNP_P4_10992_33488476	NC_021160.1	Ca_kabuli_chr01	33488476	TT	CC	1946736825
SNP_P4_10993_33488482	NC_021160.1	Ca_kabuli_chr01	33488482	AA	GG	1946736827
SNP_P4_10994_33488528	NC_021160.1	Ca_kabuli_chr01	33488528	TT	AA	1946736829
SNP_P4_10995_33488548	NC_021160.1	Ca_kabuli_chr01	33488548	CC	AA	1946736831
SNP_P4_10996_33488565	NC_021160.1	Ca_kabuli_chr01	33488565	AA	GG	1946736832
SNP_P4_10997_33488626	NC_021160.1	Ca_kabuli_chr01	33488626	CC	AA	1946736834
SNP_P4_10998_33488663	NC_021160.1	Ca_kabuli_chr01	33488663	TT	CC	1946736836
SNP_P4_10999_33488691	NC_021160.1	Ca_kabuli_chr01	33488691	AA	CC	1946736838
SNP_P4_11000_33488877	NC_021160.1	Ca_kabuli_chr01	33488877	TT	CC	1946736840
SNP_P4_11001_33489005	NC_021160.1	Ca_kabuli_chr01	33489005	TT	GG	1946736842
SNP_P4_11002_33489352	NC_021160.1	Ca_kabuli_chr01	33489352	GG	CC	1946736844
SNP_P4_11003_33493008	NC_021160.1	Ca_kabuli_chr01	33493008	GG	TT	1946736846
SNP_P4_11004_33493040	NC_021160.1	Ca_kabuli_chr01	33493040	CC	TT	1946736848
SNP_P4_11005_33493044	NC_021160.1	Ca_kabuli_chr01	33493044	GG	TT	1946736850

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_11007_33493444	NC_021160.1	Ca_kabuli_chr01	33493444	GG	CC	1946736853
SNP_P4_11008_33493490	NC_021160.1	Ca_kabuli_chr01	33493490	AA	GG	1946736855
SNP_P4_11009_33502952	NC_021160.1	Ca_kabuli_chr01	33502952	GG	AA	1946736857
SNP_P4_11010_33505992	NC_021160.1	Ca_kabuli_chr01	33505992	TT	CC	1946736859
SNP_P4_11011_33506013	NC_021160.1	Ca_kabuli_chr01	33506013	AA	GG	1946736861
SNP_P4_11012_33506059	NC_021160.1	Ca_kabuli_chr01	33506059	TT	GG	1946736863
SNP_P4_11013_33506071	NC_021160.1	Ca_kabuli_chr01	33506071	GG	TT	1946736865
SNP_P4_11014_33506072	NC_021160.1	Ca_kabuli_chr01	33506072	AA	CC	1946736866
SNP_P4_11015_33506117	NC_021160.1	Ca_kabuli_chr01	33506117	TT	CC	1946736868
SNP_P4_11016_33506142	NC_021160.1	Ca_kabuli_chr01	33506142	CC	TT	1946736870
SNP_P4_11017_33506156	NC_021160.1	Ca_kabuli_chr01	33506156	CC	AA	1946736872
SNP_P4_11018_33506168	NC_021160.1	Ca_kabuli_chr01	33506168	GG	AA	1946736874
SNP_P4_11019_33506425	NC_021160.1	Ca_kabuli_chr01	33506425	TT	CC	1946736876
SNP_P4_11021_33506500	NC_021160.1	Ca_kabuli_chr01	33506500	GG	AA	1946736878
SNP_P4_11022_33506509	NC_021160.1	Ca_kabuli_chr01	33506509	GG	AA	1946736880
SNP_P4_11023_33524432	NC_021160.1	Ca_kabuli_chr01	33524432	GG	CC	1946736882
SNP_P4_11024_33526951	NC_021160.1	Ca_kabuli_chr01	33526951	TT	CC	1946736883
SNP_P4_11025_33529944	NC_021160.1	Ca_kabuli_chr01	33529944	AA	GG	1946736885
SNP_P4_11026_33531447	NC_021160.1	Ca_kabuli_chr01	33531447	GG	AA	1946736887
SNP_P4_11027_33544910	NC_021160.1	Ca_kabuli_chr01	33544910	CC	TT	1946736889
SNP_P4_11028_33544946	NC_021160.1	Ca_kabuli_chr01	33544946	AA	CC	1946736891
SNP_P4_11029_33551575	NC_021160.1	Ca_kabuli_chr01	33551575	CC	TT	1946736893
SNP_P4_11030_33555357	NC_021160.1	Ca_kabuli_chr01	33555357	GG	TT	1946736895
SNP_P4_11033_33563587	NC_021160.1	Ca_kabuli_chr01	33563587	GG	AA	1946736897
SNP_P4_11034_33563588	NC_021160.1	Ca_kabuli_chr01	33563588	TT	GG	1946736898
SNP_P4_11036_33564786	NC_021160.1	Ca_kabuli_chr01	33564786	CC	TT	1946736900
SNP_P4_11037_33564897	NC_021160.1	Ca_kabuli_chr01	33564897	GG	TT	1946736902
SNP_P4_11038_33565641	NC_021160.1	Ca_kabuli_chr01	33565641	AA	GG	1946736904
SNP_P4_11040_33573283	NC_021160.1	Ca_kabuli_chr01	33573283	GG	AA	1946736906
SNP_P4_11041_33573478	NC_021160.1	Ca_kabuli_chr01	33573478	TT	AA	1946736908
SNP_P4_11042_33580198	NC_021160.1	Ca_kabuli_chr01	33580198	CC	TT	1946736910
SNP_P4_11043_33589239	NC_021160.1	Ca_kabuli_chr01	33589239	GG	AA	1946736912
SNP_P4_11044_33589553	NC_021160.1	Ca_kabuli_chr01	33589553	CC	GG	1946736914
SNP_P4_11046_33597954	NC_021160.1	Ca_kabuli_chr01	33597954	CC	TT	1946736916
SNP_P4_11047_33599264	NC_021160.1	Ca_kabuli_chr01	33599264	TT	CC	1946736918
SNP_P4_11048_33600979	NC_021160.1	Ca_kabuli_chr01	33600979	CC	TT	1946736919
SNP_P4_11049_33619977	NC_021160.1	Ca_kabuli_chr01	33619977	GG	AA	1946736921
SNP_P4_11051_33623376	NC_021160.1	Ca_kabuli_chr01	33623376	GG	CC	1946736923
SNP_P4_11052_33625332	NC_021160.1	Ca_kabuli_chr01	33625332	CC	TT	1946736925
SNP_P4_11053_33630870	NC_021160.1	Ca_kabuli_chr01	33630870	AA	GG	1946736927
SNP_P4_11054_33630883	NC_021160.1	Ca_kabuli_chr01	33630883	TT	CC	1946736929

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_11056_33635369	NC_021160.1	Ca_kabuli_chr01	33635369	TT	AA	1946736933
SNP_P4_11057_33637286	NC_021160.1	Ca_kabuli_chr01	33637286	CC	TT	1946736935
SNP_P4_11058_33639307	NC_021160.1	Ca_kabuli_chr01	33639307	TT	CC	1946736937
SNP_P4_11059_33639313	NC_021160.1	Ca_kabuli_chr01	33639313	TT	CC	1946736939
SNP_P4_11060_33639342	NC_021160.1	Ca_kabuli_chr01	33639342	AA	CC	1946736940
SNP_P4_11061_33639426	NC_021160.1	Ca_kabuli_chr01	33639426	AA	GG	1946736942
SNP_P4_11062_33639686	NC_021160.1	Ca_kabuli_chr01	33639686	TT	AA	1946736944
SNP_P4_11063_33639717	NC_021160.1	Ca_kabuli_chr01	33639717	TT	CC	1946736946
SNP_P4_11064_33639719	NC_021160.1	Ca_kabuli_chr01	33639719	GG	AA	1946736948
SNP_P4_11065_33639778	NC_021160.1	Ca_kabuli_chr01	33639778	TT	CC	1946736950
SNP_P4_11066_33640416	NC_021160.1	Ca_kabuli_chr01	33640416	GG	AA	1946736952
SNP_P4_11067_33640674	NC_021160.1	Ca_kabuli_chr01	33640674	TT	AA	1946736954
SNP_P4_11068_33648019	NC_021160.1	Ca_kabuli_chr01	33648019	CC	GG	1946736956
SNP_P4_11069_33652218	NC_021160.1	Ca_kabuli_chr01	33652218	TT	CC	1946736958
SNP_P4_11072_33656756	NC_021160.1	Ca_kabuli_chr01	33656756	GG	AA	1946736960
SNP_P4_11073_33657196	NC_021160.1	Ca_kabuli_chr01	33657196	CC	TT	1946736961
SNP_P4_11075_33659856	NC_021160.1	Ca_kabuli_chr01	33659856	GG	AA	1946736963
SNP_P4_11076_33660171	NC_021160.1	Ca_kabuli_chr01	33660171	GG	AA	1946736965
SNP_P4_11077_33661790	NC_021160.1	Ca_kabuli_chr01	33661790	TT	CC	1946736967
SNP_P4_11078_33663650	NC_021160.1	Ca_kabuli_chr01	33663650	TT	CC	1946736969
SNP_P4_11079_33667425	NC_021160.1	Ca_kabuli_chr01	33667425	TT	AA	1946736971
SNP_P4_11080_33668399	NC_021160.1	Ca_kabuli_chr01	33668399	TT	CC	1946736973
SNP_P4_11081_33668422	NC_021160.1	Ca_kabuli_chr01	33668422	AA	TT	1946736974
SNP_P4_11082_33668423	NC_021160.1	Ca_kabuli_chr01	33668423	TT	AA	1946736976
SNP_P4_11083_33668425	NC_021160.1	Ca_kabuli_chr01	33668425	GG	AA	1946736978
SNP_P4_11084_33673056	NC_021160.1	Ca_kabuli_chr01	33673056	AA	GG	1946736980
SNP_P4_11085_33681818	NC_021160.1	Ca_kabuli_chr01	33681818	GG	AA	1946736982
SNP_P4_11086_33682109	NC_021160.1	Ca_kabuli_chr01	33682109	GG	AA	1946736984
SNP_P4_11087_33688956	NC_021160.1	Ca_kabuli_chr01	33688956	CC	AA	1946736986
SNP_P4_11088_33688984	NC_021160.1	Ca_kabuli_chr01	33688984	CC	TT	1946736988
SNP_P4_11089_33689055	NC_021160.1	Ca_kabuli_chr01	33689055	AA	GG	1946736990
SNP_P4_11090_33689061	NC_021160.1	Ca_kabuli_chr01	33689061	CC	AA	1946736992
SNP_P4_11091_33689818	NC_021160.1	Ca_kabuli_chr01	33689818	TT	GG	1946736994
SNP_P4_11093_33698929	NC_021160.1	Ca_kabuli_chr01	33698929	TT	GG	1946736996
SNP_P4_11094_33699410	NC_021160.1	Ca_kabuli_chr01	33699410	GG	AA	1946736998
SNP_P4_11095_33699652	NC_021160.1	Ca_kabuli_chr01	33699652	AA	TT	1946737000
SNP_P4_11096_33700006	NC_021160.1	Ca_kabuli_chr01	33700006	TT	AA	1946737002
SNP_P4_11097_33700009	NC_021160.1	Ca_kabuli_chr01	33700009	TT	AA	1946737004
SNP_P4_11098_33700031	NC_021160.1	Ca_kabuli_chr01	33700031	AA	TT	1946737006
SNP_P4_11099_33700032	NC_021160.1	Ca_kabuli_chr01	33700032	GG	AA	1946737008
SNP_P4_11100_33700042	NC_021160.1	Ca_kabuli_chr01	33700042	AA	CC	1946737010

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_11102_33700065	NC_021160.1	Ca_kabuli_chr01	33700065	AA	CC	1946737014
SNP_P4_11103_33700117	NC_021160.1	Ca_kabuli_chr01	33700117	GG	AA	1946737016
SNP_P4_11105_33727214	NC_021160.1	Ca_kabuli_chr01	33727214	TT	AA	1946737018
SNP_P4_11107_33736069	NC_021160.1	Ca_kabuli_chr01	33736069	AA	GG	1946737020
SNP_P4_11108_33746583	NC_021160.1	Ca_kabuli_chr01	33746583	AA	GG	1946737022
SNP_P4_11109_33749811	NC_021160.1	Ca_kabuli_chr01	33749811	GG	AA	1946737024
SNP_P4_11110_33751099	NC_021160.1	Ca_kabuli_chr01	33751099	AA	GG	1946737026
SNP_P4_11111_33754289	NC_021160.1	Ca_kabuli_chr01	33754289	GG	AA	1946737028
SNP_P4_11112_33757096	NC_021160.1	Ca_kabuli_chr01	33757096	TT	CC	1946737030
SNP_P4_11114_33760589	NC_021160.1	Ca_kabuli_chr01	33760589	AA	CC	1946737032
SNP_P4_11115_33764080	NC_021160.1	Ca_kabuli_chr01	33764080	CC	TT	1946737034
SNP_P4_11116_33770181	NC_021160.1	Ca_kabuli_chr01	33770181	GG	AA	1946737036
SNP_P4_11117_33770565	NC_021160.1	Ca_kabuli_chr01	33770565	AA	CC	1946737038
SNP_P4_11118_33771842	NC_021160.1	Ca_kabuli_chr01	33771842	GG	AA	1946737040
SNP_P4_11119_33776961	NC_021160.1	Ca_kabuli_chr01	33776961	TT	GG	1946737043
SNP_P4_11121_33780296	NC_021160.1	Ca_kabuli_chr01	33780296	TT	CC	1946737045
SNP_P4_11122_33780357	NC_021160.1	Ca_kabuli_chr01	33780357	TT	AA	1946737047
SNP_P4_11124_33782222	NC_021160.1	Ca_kabuli_chr01	33782222	CC	TT	1946737049
SNP_P4_11125_33782230	NC_021160.1	Ca_kabuli_chr01	33782230	GG	AA	1946737051
SNP_P4_11126_33782240	NC_021160.1	Ca_kabuli_chr01	33782240	AA	GG	1946737053
SNP_P4_11127_33782247	NC_021160.1	Ca_kabuli_chr01	33782247	GG	CC	1946737055
SNP_P4_11128_33792104	NC_021160.1	Ca_kabuli_chr01	33792104	AA	GG	1946737057
SNP_P4_11129_33799460	NC_021160.1	Ca_kabuli_chr01	33799460	AA	GG	1946737059
SNP_P4_11130_33802890	NC_021160.1	Ca_kabuli_chr01	33802890	GG	CC	1946737060
SNP_P4_11131_33803223	NC_021160.1	Ca_kabuli_chr01	33803223	GG	CC	1946737062
SNP_P4_11132_33803252	NC_021160.1	Ca_kabuli_chr01	33803252	TT	CC	1946737064
SNP_P4_11133_33803294	NC_021160.1	Ca_kabuli_chr01	33803294	GG	AA	1946737066
SNP_P4_11134_33803416	NC_021160.1	Ca_kabuli_chr01	33803416	CC	TT	1946737068
SNP_P4_11135_33803679	NC_021160.1	Ca_kabuli_chr01	33803679	TT	CC	1946737070
SNP_P4_11136_33813932	NC_021160.1	Ca_kabuli_chr01	33813932	TT	GG	1946737072
SNP_P4_11137_33813933	NC_021160.1	Ca_kabuli_chr01	33813933	TT	CC	1946737074
SNP_P4_11138_33823458	NC_021160.1	Ca_kabuli_chr01	33823458	GG	AA	1946737076
SNP_P4_11139_33826248	NC_021160.1	Ca_kabuli_chr01	33826248	TT	CC	1946737078
SNP_P4_11140_33826683	NC_021160.1	Ca_kabuli_chr01	33826683	TT	CC	1946737080
SNP_P4_11141_33826773	NC_021160.1	Ca_kabuli_chr01	33826773	TT	AA	1946737082
SNP_P4_11142_33827633	NC_021160.1	Ca_kabuli_chr01	33827633	TT	GG	1946737084
SNP_P4_11143_33831845	NC_021160.1	Ca_kabuli_chr01	33831845	TT	CC	1946737086
SNP_P4_11144_33831855	NC_021160.1	Ca_kabuli_chr01	33831855	AA	CC	1946737088
SNP_P4_11146_33836161	NC_021160.1	Ca_kabuli_chr01	33836161	GG	AA	1946737090
SNP_P4_11147_33844768	NC_021160.1	Ca_kabuli_chr01	33844768	AA	GG	1946737092
SNP_P4_11148_33844808	NC_021160.1	Ca_kabuli_chr01	33844808	AA	CC	1946737094

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_11150_33844879	NC_021160.1	Ca_kabuli_chr01	33844879	AA	GG	1946737098
SNP_P4_11151_33844940	NC_021160.1	Ca_kabuli_chr01	33844940	AA	CC	1946737100
SNP_P4_11152_33845092	NC_021160.1	Ca_kabuli_chr01	33845092	TT	AA	1946737102
SNP_P4_11153_33848304	NC_021160.1	Ca_kabuli_chr01	33848304	GG	AA	1946737104
SNP_P4_11154_33849007	NC_021160.1	Ca_kabuli_chr01	33849007	AA	GG	1946737106
SNP_P4_11155_33852245	NC_021160.1	Ca_kabuli_chr01	33852245	GG	AA	1946737108
SNP_P4_11156_33854342	NC_021160.1	Ca_kabuli_chr01	33854342	GG	AA	1946737110
SNP_P4_11157_33854791	NC_021160.1	Ca_kabuli_chr01	33854791	GG	AA	1946737112
SNP_P4_11158_33857243	NC_021160.1	Ca_kabuli_chr01	33857243	GG	AA	1946737114
SNP_P4_11159_33863185	NC_021160.1	Ca_kabuli_chr01	33863185	TT	GG	1946737116
SNP_P4_11160_33863747	NC_021160.1	Ca_kabuli_chr01	33863747	TT	CC	1946737118
SNP_P4_11161_33882954	NC_021160.1	Ca_kabuli_chr01	33882954	GG	TT	1946737120
SNP_P4_11162_33897612	NC_021160.1	Ca_kabuli_chr01	33897612	TT	AA	1946737122
SNP_P4_11163_33915807	NC_021160.1	Ca_kabuli_chr01	33915807	AA	GG	1946737124
SNP_P4_11164_33915951	NC_021160.1	Ca_kabuli_chr01	33915951	TT	CC	1946737126
SNP_P4_11165_33915985	NC_021160.1	Ca_kabuli_chr01	33915985	AA	GG	1946737128
SNP_P4_11166_33916181	NC_021160.1	Ca_kabuli_chr01	33916181	AA	GG	1946737130
SNP_P4_11168_33916761	NC_021160.1	Ca_kabuli_chr01	33916761	GG	CC	1946737132
SNP_P4_11169_33916794	NC_021160.1	Ca_kabuli_chr01	33916794	GG	AA	1946737134
SNP_P4_11170_33916926	NC_021160.1	Ca_kabuli_chr01	33916926	GG	AA	1946737136
SNP_P4_11171_33923270	NC_021160.1	Ca_kabuli_chr01	33923270	TT	CC	1946737138
SNP_P4_11172_33930865	NC_021160.1	Ca_kabuli_chr01	33930865	TT	GG	1946737140
SNP_P4_11173_33930867	NC_021160.1	Ca_kabuli_chr01	33930867	AA	GG	1946737142
SNP_P4_11174_33931445	NC_021160.1	Ca_kabuli_chr01	33931445	CC	TT	1946737144
SNP_P4_11175_33934312	NC_021160.1	Ca_kabuli_chr01	33934312	CC	TT	1946737146
SNP_P4_11176_33934363	NC_021160.1	Ca_kabuli_chr01	33934363	TT	GG	1946737148
SNP_P4_11177_33934369	NC_021160.1	Ca_kabuli_chr01	33934369	TT	CC	1946737150
SNP_P4_11178_33938002	NC_021160.1	Ca_kabuli_chr01	33938002	TT	CC	1946737152
SNP_P4_11179_33943791	NC_021160.1	Ca_kabuli_chr01	33943791	AA	GG	1946737154
SNP_P4_11180_33971240	NC_021160.1	Ca_kabuli_chr01	33971240	AA	GG	1946737156
SNP_P4_11182_34001031	NC_021160.1	Ca_kabuli_chr01	34001031	AA	CC	1946737158
SNP_P4_11185_34037406	NC_021160.1	Ca_kabuli_chr01	34037406	AA	GG	1946737160
SNP_P4_11186_34039141	NC_021160.1	Ca_kabuli_chr01	34039141	GG	AA	1946737162
SNP_P4_11187_34042922	NC_021160.1	Ca_kabuli_chr01	34042922	AA	GG	1946737164
SNP_P4_11188_34043332	NC_021160.1	Ca_kabuli_chr01	34043332	GG	AA	1946737166
SNP_P4_11189_34043402	NC_021160.1	Ca_kabuli_chr01	34043402	CC	TT	1946737168
SNP_P4_11190_34043514	NC_021160.1	Ca_kabuli_chr01	34043514	CC	AA	1946737171
SNP_P4_11191_34043521	NC_021160.1	Ca_kabuli_chr01	34043521	TT	CC	1946737173
SNP_P4_11192_34043522	NC_021160.1	Ca_kabuli_chr01	34043522	CC	TT	1946737175
SNP_P4_11193_34043531	NC_021160.1	Ca_kabuli_chr01	34043531	TT	CC	1946737177
SNP_P4_11194_34043549	NC_021160.1	Ca_kabuli_chr01	34043549	CC	TT	1946737179

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_11197_34072534	NC_021160.1	Ca_kabuli_chr01	34072534	AA	TT	1946737183
SNP_P4_11198_34127881	NC_021160.1	Ca_kabuli_chr01	34127881	CC	GG	1946737185
SNP_P4_11199_34127924	NC_021160.1	Ca_kabuli_chr01	34127924	TT	AA	1946737187
SNP_P4_11200_34127925	NC_021160.1	Ca_kabuli_chr01	34127925	AA	TT	1946737189
SNP_P4_11201_34128012	NC_021160.1	Ca_kabuli_chr01	34128012	TT	CC	1946737191
SNP_P4_11202_34128014	NC_021160.1	Ca_kabuli_chr01	34128014	TT	AA	1946737193
SNP_P4_11203_34128086	NC_021160.1	Ca_kabuli_chr01	34128086	AA	GG	1946737195
SNP_P4_11204_34128121	NC_021160.1	Ca_kabuli_chr01	34128121	CC	TT	1946737197
SNP_P4_11205_34128146	NC_021160.1	Ca_kabuli_chr01	34128146	TT	AA	1946737199
SNP_P4_11206_34128161	NC_021160.1	Ca_kabuli_chr01	34128161	TT	AA	1946737201
SNP_P4_11207_34128194	NC_021160.1	Ca_kabuli_chr01	34128194	TT	AA	1946737203
SNP_P4_11208_34128201	NC_021160.1	Ca_kabuli_chr01	34128201	TT	CC	1946737205
SNP_P4_11209_34128206	NC_021160.1	Ca_kabuli_chr01	34128206	AA	GG	1946737207
SNP_P4_11210_34128295	NC_021160.1	Ca_kabuli_chr01	34128295	CC	TT	1946737209
SNP_P4_11211_34128390	NC_021160.1	Ca_kabuli_chr01	34128390	TT	CC	1946737211
SNP_P4_11212_34128417	NC_021160.1	Ca_kabuli_chr01	34128417	AA	CC	1946737213
SNP_P4_11213_34128748	NC_021160.1	Ca_kabuli_chr01	34128748	TT	AA	1946737215
SNP_P4_11214_34128905	NC_021160.1	Ca_kabuli_chr01	34128905	CC	AA	1946737217
SNP_P4_11216_34129173	NC_021160.1	Ca_kabuli_chr01	34129173	AA	GG	1946737219
SNP_P4_11217_34129352	NC_021160.1	Ca_kabuli_chr01	34129352	GG	TT	1946737221
SNP_P4_11218_34129354	NC_021160.1	Ca_kabuli_chr01	34129354	GG	CC	1946737223
SNP_P4_11219_34129408	NC_021160.1	Ca_kabuli_chr01	34129408	TT	AA	1946737225
SNP_P4_11220_34129410	NC_021160.1	Ca_kabuli_chr01	34129410	GG	TT	1946737227
SNP_P4_11221_34129497	NC_021160.1	Ca_kabuli_chr01	34129497	TT	GG	1946737229
SNP_P4_11222_34129502	NC_021160.1	Ca_kabuli_chr01	34129502	AA	CC	1946737231
SNP_P4_11223_34129531	NC_021160.1	Ca_kabuli_chr01	34129531	GG	AA	1946737233
SNP_P4_11224_34129606	NC_021160.1	Ca_kabuli_chr01	34129606	TT	AA	1946737235
SNP_P4_11225_34129873	NC_021160.1	Ca_kabuli_chr01	34129873	CC	AA	1946737237
SNP_P4_11226_34130196	NC_021160.1	Ca_kabuli_chr01	34130196	TT	CC	1946737239
SNP_P4_11228_34132106	NC_021160.1	Ca_kabuli_chr01	34132106	AA	GG	1946737241
SNP_P4_11229_34132294	NC_021160.1	Ca_kabuli_chr01	34132294	TT	CC	1946737243
SNP_P4_11230_34132302	NC_021160.1	Ca_kabuli_chr01	34132302	AA	GG	1946737245
SNP_P4_11231_34132896	NC_021160.1	Ca_kabuli_chr01	34132896	GG	AA	1946737247
SNP_P4_11233_34133274	NC_021160.1	Ca_kabuli_chr01	34133274	TT	CC	1946737249
SNP_P4_11234_34134129	NC_021160.1	Ca_kabuli_chr01	34134129	GG	TT	1946737251
SNP_P4_11235_34134174	NC_021160.1	Ca_kabuli_chr01	34134174	GG	TT	1946737253
SNP_P4_11236_34134192	NC_021160.1	Ca_kabuli_chr01	34134192	AA	GG	1946737255
SNP_P4_11237_34134528	NC_021160.1	Ca_kabuli_chr01	34134528	TT	CC	1946737257
SNP_P4_11238_34136017	NC_021160.1	Ca_kabuli_chr01	34136017	TT	CC	1946737259
SNP_P4_11239_34136073	NC_021160.1	Ca_kabuli_chr01	34136073	AA	GG	1946737261
SNP_P4_11240_34136074	NC_021160.1	Ca_kabuli_chr01	34136074	TT	CC	1946737263

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_11242_34136299	NC_021160.1	Ca_kabuli_chr01	34136299	GG	AA	1946737267
SNP_P4_11243_34136370	NC_021160.1	Ca_kabuli_chr01	34136370	CC	TT	1946737269
SNP_P4_11245_34136713	NC_021160.1	Ca_kabuli_chr01	34136713	GG	AA	1946737271
SNP_P4_11246_34136774	NC_021160.1	Ca_kabuli_chr01	34136774	CC	TT	1946737273
SNP_P4_11247_34136789	NC_021160.1	Ca_kabuli_chr01	34136789	TT	CC	1946737275
SNP_P4_11248_34136809	NC_021160.1	Ca_kabuli_chr01	34136809	TT	GG	1946737277
SNP_P4_11250_34137601	NC_021160.1	Ca_kabuli_chr01	34137601	AA	GG	1946737279
SNP_P4_11251_34137637	NC_021160.1	Ca_kabuli_chr01	34137637	TT	AA	1946737281
SNP_P4_11252_34139893	NC_021160.1	Ca_kabuli_chr01	34139893	CC	AA	1946737283
SNP_P4_11253_34141519	NC_021160.1	Ca_kabuli_chr01	34141519	GG	AA	1946737285
SNP_P4_11254_34141728	NC_021160.1	Ca_kabuli_chr01	34141728	TT	CC	1946737287
SNP_P4_11255_34141782	NC_021160.1	Ca_kabuli_chr01	34141782	CC	TT	1946737289
SNP_P4_11256_34141817	NC_021160.1	Ca_kabuli_chr01	34141817	CC	GG	1946737291
SNP_P4_11257_34141823	NC_021160.1	Ca_kabuli_chr01	34141823	CC	TT	1946737293
SNP_P4_11258_34141845	NC_021160.1	Ca_kabuli_chr01	34141845	CC	AA	1946737295
SNP_P4_11260_34143259	NC_021160.1	Ca_kabuli_chr01	34143259	CC	TT	1946737297
SNP_P4_11261_34143303	NC_021160.1	Ca_kabuli_chr01	34143303	AA	TT	1946737299
SNP_P4_11262_34143304	NC_021160.1	Ca_kabuli_chr01	34143304	TT	GG	1946737301
SNP_P4_11263_34143341	NC_021160.1	Ca_kabuli_chr01	34143341	CC	TT	1946737303
SNP_P4_11264_34143345	NC_021160.1	Ca_kabuli_chr01	34143345	TT	CC	1946737305
SNP_P4_11266_34143799	NC_021160.1	Ca_kabuli_chr01	34143799	GG	TT	1946737307
SNP_P4_11267_34145416	NC_021160.1	Ca_kabuli_chr01	34145416	AA	GG	1946737309
SNP_P4_11268_34145480	NC_021160.1	Ca_kabuli_chr01	34145480	CC	TT	1946737311
SNP_P4_11269_34145482	NC_021160.1	Ca_kabuli_chr01	34145482	AA	GG	1946737313
SNP_P4_11270_34145760	NC_021160.1	Ca_kabuli_chr01	34145760	GG	AA	1946737315
SNP_P4_11271_34145786	NC_021160.1	Ca_kabuli_chr01	34145786	CC	GG	1946737317
SNP_P4_11272_34146624	NC_021160.1	Ca_kabuli_chr01	34146624	AA	TT	1946737320
SNP_P4_11273_34146674	NC_021160.1	Ca_kabuli_chr01	34146674	CC	TT	1946737322
SNP_P4_11274_34146682	NC_021160.1	Ca_kabuli_chr01	34146682	AA	GG	1946737324
SNP_P4_11275_34146892	NC_021160.1	Ca_kabuli_chr01	34146892	AA	CC	1946737326
SNP_P4_11276_34154573	NC_021160.1	Ca_kabuli_chr01	34154573	AA	GG	1946737328
SNP_P4_11277_34157886	NC_021160.1	Ca_kabuli_chr01	34157886	TT	CC	1946737330
SNP_P4_11278_34157905	NC_021160.1	Ca_kabuli_chr01	34157905	TT	CC	1946737332
SNP_P4_11279_34158702	NC_021160.1	Ca_kabuli_chr01	34158702	TT	CC	1946737334
SNP_P4_11280_34158707	NC_021160.1	Ca_kabuli_chr01	34158707	GG	AA	1946737336
SNP_P4_11281_34159991	NC_021160.1	Ca_kabuli_chr01	34159991	CC	TT	1946737338
SNP_P4_11284_34161285	NC_021160.1	Ca_kabuli_chr01	34161285	GG	AA	1946737340
SNP_P4_11285_34163574	NC_021160.1	Ca_kabuli_chr01	34163574	CC	TT	1946737342
SNP_P4_11286_34163588	NC_021160.1	Ca_kabuli_chr01	34163588	CC	TT	1946737344
SNP_P4_11287_34164154	NC_021160.1	Ca_kabuli_chr01	34164154	AA	CC	1946737346
SNP_P4_11289_34164592	NC_021160.1	Ca_kabuli_chr01	34164592	CC	TT	1946737348

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_11291_34165009	NC_021160.1	Ca_kabuli_chr01	34165009	GG	AA	1946737352
SNP_P4_11292_34165057	NC_021160.1	Ca_kabuli_chr01	34165057	GG	AA	1946737354
SNP_P4_11293_34166410	NC_021160.1	Ca_kabuli_chr01	34166410	GG	AA	1946737356
SNP_P4_11294_34169906	NC_021160.1	Ca_kabuli_chr01	34169906	AA	GG	1946737358
SNP_P4_11296_34170222	NC_021160.1	Ca_kabuli_chr01	34170222	CC	TT	1946737360
SNP_P4_11297_34176841	NC_021160.1	Ca_kabuli_chr01	34176841	CC	TT	1946737362
SNP_P4_11298_34176862	NC_021160.1	Ca_kabuli_chr01	34176862	AA	GG	1946737364
SNP_P4_11299_34177161	NC_021160.1	Ca_kabuli_chr01	34177161	GG	AA	1946737366
SNP_P4_11300_34177338	NC_021160.1	Ca_kabuli_chr01	34177338	GG	TT	1946737368
SNP_P4_11301_34177355	NC_021160.1	Ca_kabuli_chr01	34177355	CC	AA	1946737370
SNP_P4_11302_34177559	NC_021160.1	Ca_kabuli_chr01	34177559	TT	AA	1946737372
SNP_P4_11303_34177939	NC_021160.1	Ca_kabuli_chr01	34177939	CC	AA	1946737374
SNP_P4_11304_34177942	NC_021160.1	Ca_kabuli_chr01	34177942	TT	CC	1946737376
SNP_P4_11305_34179287	NC_021160.1	Ca_kabuli_chr01	34179287	GG	AA	1946737378
SNP_P4_11306_34179577	NC_021160.1	Ca_kabuli_chr01	34179577	AA	GG	1946737380
SNP_P4_11307_34183262	NC_021160.1	Ca_kabuli_chr01	34183262	CC	TT	1946737382
SNP_P4_11308_34183278	NC_021160.1	Ca_kabuli_chr01	34183278	CC	AA	1946737384
SNP_P4_11309_34183297	NC_021160.1	Ca_kabuli_chr01	34183297	TT	CC	1946737386
SNP_P4_11310_34183335	NC_021160.1	Ca_kabuli_chr01	34183335	GG	TT	1946737388
SNP_P4_11311_34183343	NC_021160.1	Ca_kabuli_chr01	34183343	TT	CC	1946737390
SNP_P4_11312_34183348	NC_021160.1	Ca_kabuli_chr01	34183348	CC	TT	1946737392
SNP_P4_11313_34183355	NC_021160.1	Ca_kabuli_chr01	34183355	TT	AA	1946737394
SNP_P4_11314_34183358	NC_021160.1	Ca_kabuli_chr01	34183358	TT	AA	1946737396
SNP_P4_11315_34183365	NC_021160.1	Ca_kabuli_chr01	34183365	CC	TT	1946737398
SNP_P4_11316_34183635	NC_021160.1	Ca_kabuli_chr01	34183635	GG	TT	1946737400
SNP_P4_11317_34183955	NC_021160.1	Ca_kabuli_chr01	34183955	TT	CC	1946737402
SNP_P4_11318_34184328	NC_021160.1	Ca_kabuli_chr01	34184328	CC	TT	1946737404
SNP_P4_11319_34184588	NC_021160.1	Ca_kabuli_chr01	34184588	CC	TT	1946737406
SNP_P4_11320_34185591	NC_021160.1	Ca_kabuli_chr01	34185591	AA	GG	1946737408
SNP_P4_11321_34192131	NC_021160.1	Ca_kabuli_chr01	34192131	GG	AA	1946737410
SNP_P4_11322_34193230	NC_021160.1	Ca_kabuli_chr01	34193230	TT	AA	1946737412
SNP_P4_11324_34193558	NC_021160.1	Ca_kabuli_chr01	34193558	TT	AA	1946737414
SNP_P4_11325_34194569	NC_021160.1	Ca_kabuli_chr01	34194569	GG	TT	1946737416
SNP_P4_11326_34194573	NC_021160.1	Ca_kabuli_chr01	34194573	TT	CC	1946737418
SNP_P4_11327_34194598	NC_021160.1	Ca_kabuli_chr01	34194598	AA	TT	1946737420
SNP_P4_11328_34194608	NC_021160.1	Ca_kabuli_chr01	34194608	GG	AA	1946737422
SNP_P4_11329_34195627	NC_021160.1	Ca_kabuli_chr01	34195627	GG	AA	1946737424
SNP_P4_11330_34195950	NC_021160.1	Ca_kabuli_chr01	34195950	CC	TT	1946737427
SNP_P4_11331_34196632	NC_021160.1	Ca_kabuli_chr01	34196632	TT	CC	1946737429
SNP_P4_11332_34197368	NC_021160.1	Ca_kabuli_chr01	34197368	CC	AA	1946737431
SNP_P4_11334_34199636	NC_021160.1	Ca_kabuli_chr01	34199636	CC	TT	1946737433

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_11336_34200577	NC_021160.1	Ca_kabuli_chr01	34200577	AA	TT	1946737437
SNP_P4_11338_34202829	NC_021160.1	Ca_kabuli_chr01	34202829	AA	GG	1946737439
SNP_P4_11340_34217319	NC_021160.1	Ca_kabuli_chr01	34217319	AA	GG	1946737441
SNP_P4_11341_34221304	NC_021160.1	Ca_kabuli_chr01	34221304	GG	AA	1946737443
SNP_P4_11342_34226978	NC_021160.1	Ca_kabuli_chr01	34226978	GG	AA	1946737445
SNP_P4_11343_34227187	NC_021160.1	Ca_kabuli_chr01	34227187	CC	AA	1946737447
SNP_P4_11345_34228469	NC_021160.1	Ca_kabuli_chr01	34228469	CC	TT	1946737449
SNP_P4_11346_34228567	NC_021160.1	Ca_kabuli_chr01	34228567	CC	TT	1946737451
SNP_P4_11347_34228641	NC_021160.1	Ca_kabuli_chr01	34228641	CC	TT	1946737453
SNP_P4_11348_34231838	NC_021160.1	Ca_kabuli_chr01	34231838	TT	GG	1946737455
SNP_P4_11349_34231921	NC_021160.1	Ca_kabuli_chr01	34231921	AA	TT	1946737457
SNP_P4_11350_34231951	NC_021160.1	Ca_kabuli_chr01	34231951	AA	GG	1946737459
SNP_P4_11351_34236790	NC_021160.1	Ca_kabuli_chr01	34236790	CC	TT	1946737460
SNP_P4_11352_34237366	NC_021160.1	Ca_kabuli_chr01	34237366	AA	GG	1946737462
SNP_P4_11353_34243012	NC_021160.1	Ca_kabuli_chr01	34243012	CC	TT	1946737464
SNP_P4_11354_34243758	NC_021160.1	Ca_kabuli_chr01	34243758	AA	CC	1946737466
SNP_P4_11355_34244223	NC_021160.1	Ca_kabuli_chr01	34244223	GG	TT	1946737468
SNP_P4_11356_34244599	NC_021160.1	Ca_kabuli_chr01	34244599	AA	GG	1946737470
SNP_P4_11357_34245977	NC_021160.1	Ca_kabuli_chr01	34245977	AA	GG	1946737472
SNP_P4_11358_34246158	NC_021160.1	Ca_kabuli_chr01	34246158	TT	CC	1946737474
SNP_P4_11359_34249672	NC_021160.1	Ca_kabuli_chr01	34249672	CC	TT	1946737476
SNP_P4_11360_34250403	NC_021160.1	Ca_kabuli_chr01	34250403	GG	AA	1946737478
SNP_P4_11361_34250459	NC_021160.1	Ca_kabuli_chr01	34250459	AA	CC	1946737480
SNP_P4_11363_34251838	NC_021160.1	Ca_kabuli_chr01	34251838	GG	TT	1946737482
SNP_P4_11364_34255530	NC_021160.1	Ca_kabuli_chr01	34255530	GG	AA	1946737484
SNP_P4_11365_34262027	NC_021160.1	Ca_kabuli_chr01	34262027	TT	CC	1946737486
SNP_P4_11367_34278088	NC_021160.1	Ca_kabuli_chr01	34278088	CC	AA	1946737488
SNP_P4_11368_34279486	NC_021160.1	Ca_kabuli_chr01	34279486	TT	CC	1946737490
SNP_P4_11369_34280154	NC_021160.1	Ca_kabuli_chr01	34280154	GG	TT	1946737492
SNP_P4_11370_34280172	NC_021160.1	Ca_kabuli_chr01	34280172	AA	TT	1946737494
SNP_P4_11371_34280437	NC_021160.1	Ca_kabuli_chr01	34280437	GG	TT	1946737496
SNP_P4_11372_34283791	NC_021160.1	Ca_kabuli_chr01	34283791	GG	AA	1946737498
SNP_P4_11374_34288555	NC_021160.1	Ca_kabuli_chr01	34288555	TT	CC	1946737500
SNP_P4_11375_34288785	NC_021160.1	Ca_kabuli_chr01	34288785	AA	GG	1946737503
SNP_P4_11376_34294878	NC_021160.1	Ca_kabuli_chr01	34294878	AA	TT	1946737505
SNP_P4_11377_34298385	NC_021160.1	Ca_kabuli_chr01	34298385	AA	GG	1946737507
SNP_P4_11378_34302392	NC_021160.1	Ca_kabuli_chr01	34302392	AA	GG	1946737508
SNP_P4_11379_34302483	NC_021160.1	Ca_kabuli_chr01	34302483	GG	AA	1946737510
SNP_P4_11381_34316940	NC_021160.1	Ca_kabuli_chr01	34316940	GG	AA	1946737512
SNP_P4_11382_34323127	NC_021160.1	Ca_kabuli_chr01	34323127	AA	TT	1946737514
SNP_P4_11383_34328740	NC_021160.1	Ca_kabuli_chr01	34328740	AA	TT	1946737516

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_11385_34330714	NC_021160.1	Ca_kabuli_chr01	34330714	TT	AA	1946737520
SNP_P4_11386_34331702	NC_021160.1	Ca_kabuli_chr01	34331702	TT	GG	1946737522
SNP_P4_11387_34331716	NC_021160.1	Ca_kabuli_chr01	34331716	GG	TT	1946737524
SNP_P4_11389_34335663	NC_021160.1	Ca_kabuli_chr01	34335663	GG	AA	1946737527
SNP_P4_11390_34336941	NC_021160.1	Ca_kabuli_chr01	34336941	GG	AA	1946737529
SNP_P4_11391_34339435	NC_021160.1	Ca_kabuli_chr01	34339435	TT	CC	1946737531
SNP_P4_11392_34340279	NC_021160.1	Ca_kabuli_chr01	34340279	TT	GG	1946737533
SNP_P4_11393_34342945	NC_021160.1	Ca_kabuli_chr01	34342945	TT	CC	1946737535
SNP_P4_11394_34342987	NC_021160.1	Ca_kabuli_chr01	34342987	CC	AA	1946737537
SNP_P4_11396_34346070	NC_021160.1	Ca_kabuli_chr01	34346070	CC	TT	1946737539
SNP_P4_11397_34346496	NC_021160.1	Ca_kabuli_chr01	34346496	TT	GG	1946737541
SNP_P4_11398_34347248	NC_021160.1	Ca_kabuli_chr01	34347248	AA	GG	1946737543
SNP_P4_11399_34354481	NC_021160.1	Ca_kabuli_chr01	34354481	AA	GG	1946737545
SNP_P4_11400_34355074	NC_021160.1	Ca_kabuli_chr01	34355074	CC	TT	1946737547
SNP_P4_11401_34355357	NC_021160.1	Ca_kabuli_chr01	34355357	TT	GG	1946737549
SNP_P4_11402_34355680	NC_021160.1	Ca_kabuli_chr01	34355680	CC	AA	1946737551
SNP_P4_11403_34356291	NC_021160.1	Ca_kabuli_chr01	34356291	AA	GG	1946737553
SNP_P4_11404_34356610	NC_021160.1	Ca_kabuli_chr01	34356610	AA	GG	1946737555
SNP_P4_11405_34360282	NC_021160.1	Ca_kabuli_chr01	34360282	CC	TT	1946737557
SNP_P4_11406_34360611	NC_021160.1	Ca_kabuli_chr01	34360611	GG	AA	1946737559
SNP_P4_11407_34361069	NC_021160.1	Ca_kabuli_chr01	34361069	TT	AA	1946737561
SNP_P4_11408_34361092	NC_021160.1	Ca_kabuli_chr01	34361092	TT	AA	1946737563
SNP_P4_11409_34361108	NC_021160.1	Ca_kabuli_chr01	34361108	AA	GG	1946737565
SNP_P4_11410_34362237	NC_021160.1	Ca_kabuli_chr01	34362237	GG	AA	1946737567
SNP_P4_11412_34362956	NC_021160.1	Ca_kabuli_chr01	34362956	CC	TT	1946737569
SNP_P4_11413_34362957	NC_021160.1	Ca_kabuli_chr01	34362957	CC	AA	1946737571
SNP_P4_11415_34363701	NC_021160.1	Ca_kabuli_chr01	34363701	GG	AA	1946737573
SNP_P4_11416_34363823	NC_021160.1	Ca_kabuli_chr01	34363823	TT	AA	1946737575
SNP_P4_11417_34363930	NC_021160.1	Ca_kabuli_chr01	34363930	CC	TT	1946737577
SNP_P4_11418_34364415	NC_021160.1	Ca_kabuli_chr01	34364415	CC	TT	1946737579
SNP_P4_11419_34366468	NC_021160.1	Ca_kabuli_chr01	34366468	AA	GG	1946737581
SNP_P4_11420_34367488	NC_021160.1	Ca_kabuli_chr01	34367488	CC	TT	1946737583
SNP_P4_11421_34367738	NC_021160.1	Ca_kabuli_chr01	34367738	TT	CC	1946737585
SNP_P4_11422_34367742	NC_021160.1	Ca_kabuli_chr01	34367742	TT	GG	1946737587
SNP_P4_11423_34370008	NC_021160.1	Ca_kabuli_chr01	34370008	CC	AA	1946737589
SNP_P4_11424_34372909	NC_021160.1	Ca_kabuli_chr01	34372909	TT	AA	1946737591
SNP_P4_11425_34377574	NC_021160.1	Ca_kabuli_chr01	34377574	CC	TT	1946737592
SNP_P4_11426_34378789	NC_021160.1	Ca_kabuli_chr01	34378789	GG	AA	1946737594
SNP_P4_11427_34378964	NC_021160.1	Ca_kabuli_chr01	34378964	GG	AA	1946737596
SNP_P4_11428_34380698	NC_021160.1	Ca_kabuli_chr01	34380698	GG	CC	1946737598
SNP_P4_11429_34384196	NC_021160.1	Ca_kabuli_chr01	34384196	AA	GG	1946737600

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_11431_34384213	NC_021160.1	Ca_kabuli_chr01	34384213	CC	TT	1946737604
SNP_P4_11432_34384300	NC_021160.1	Ca_kabuli_chr01	34384300	CC	TT	1946737606
SNP_P4_11434_34386957	NC_021160.1	Ca_kabuli_chr01	34386957	GG	TT	1946737608
SNP_P4_11435_34386969	NC_021160.1	Ca_kabuli_chr01	34386969	GG	AA	1946737610
SNP_P4_11436_34387470	NC_021160.1	Ca_kabuli_chr01	34387470	TT	CC	1946737612
SNP_P4_11437_34387489	NC_021160.1	Ca_kabuli_chr01	34387489	AA	GG	1946737614
SNP_P4_11438_34387499	NC_021160.1	Ca_kabuli_chr01	34387499	GG	AA	1946737616
SNP_P4_11439_34387744	NC_021160.1	Ca_kabuli_chr01	34387744	TT	GG	1946737618
SNP_P4_11440_34395008	NC_021160.1	Ca_kabuli_chr01	34395008	TT	CC	1946737619
SNP_P4_11441_34395064	NC_021160.1	Ca_kabuli_chr01	34395064	AA	GG	1946737621
SNP_P4_11442_34396455	NC_021160.1	Ca_kabuli_chr01	34396455	AA	TT	1946737623
SNP_P4_11444_34397785	NC_021160.1	Ca_kabuli_chr01	34397785	TT	AA	1946737625
SNP_P4_11445_34403422	NC_021160.1	Ca_kabuli_chr01	34403422	AA	GG	1946737627
SNP_P4_11446_34404462	NC_021160.1	Ca_kabuli_chr01	34404462	AA	CC	1946737629
SNP_P4_11447_34404463	NC_021160.1	Ca_kabuli_chr01	34404463	TT	AA	1946737631
SNP_P4_11448_34404464	NC_021160.1	Ca_kabuli_chr01	34404464	GG	TT	1946737633
SNP_P4_11449_34405622	NC_021160.1	Ca_kabuli_chr01	34405622	AA	GG	1946737635
SNP_P4_11450_34405750	NC_021160.1	Ca_kabuli_chr01	34405750	TT	GG	1946737637
SNP_P4_11451_34405903	NC_021160.1	Ca_kabuli_chr01	34405903	AA	CC	1946737639
SNP_P4_11452_34408257	NC_021160.1	Ca_kabuli_chr01	34408257	GG	AA	1946737641
SNP_P4_11453_34408274	NC_021160.1	Ca_kabuli_chr01	34408274	GG	TT	1946737643
SNP_P4_11454_34408537	NC_021160.1	Ca_kabuli_chr01	34408537	AA	GG	1946737645
SNP_P4_11456_34414884	NC_021160.1	Ca_kabuli_chr01	34414884	CC	TT	1946737647
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SNP_P4_11458_34415446	NC_021160.1	Ca_kabuli_chr01	34415446	CC	TT	1946737651
SNP_P4_11459_34419120	NC_021160.1	Ca_kabuli_chr01	34419120	AA	TT	1946737653
SNP_P4_11460_34426973	NC_021160.1	Ca_kabuli_chr01	34426973	GG	AA	1946737655
SNP_P4_11461_34432247	NC_021160.1	Ca_kabuli_chr01	34432247	AA	GG	1946737657
SNP_P4_11462_34433640	NC_021160.1	Ca_kabuli_chr01	34433640	AA	GG	1946737659
SNP_P4_11463_34433706	NC_021160.1	Ca_kabuli_chr01	34433706	CC	AA	1946737661
SNP_P4_11464_34459889	NC_021160.1	Ca_kabuli_chr01	34459889	TT	GG	1946737663
SNP_P4_11466_34479170	NC_021160.1	Ca_kabuli_chr01	34479170	CC	AA	1946737665
SNP_P4_11468_34537653	NC_021160.1	Ca_kabuli_chr01	34537653	AA	GG	1946737667
SNP_P4_11469_34537674	NC_021160.1	Ca_kabuli_chr01	34537674	AA	GG	1946737669
SNP_P4_11471_34567021	NC_021160.1	Ca_kabuli_chr01	34567021	CC	TT	1946737671
SNP_P4_11472_34567350	NC_021160.1	Ca_kabuli_chr01	34567350	CC	TT	1946737672
SNP_P4_11473_34576577	NC_021160.1	Ca_kabuli_chr01	34576577	GG	AA	1946737674
SNP_P4_11474_34580207	NC_021160.1	Ca_kabuli_chr01	34580207	CC	TT	1946737676
SNP_P4_11475_34584992	NC_021160.1	Ca_kabuli_chr01	34584992	TT	CC	1946737678
SNP_P4_11476_34585691	NC_021160.1	Ca_kabuli_chr01	34585691	AA	GG	1946737680
SNP_P4_11477_34586913	NC_021160.1	Ca_kabuli_chr01	34586913	AA	GG	1946737682

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_11480_34596657	NC_021160.1	Ca_kabuli_chr01	34596657	TT	AA	1946737686
SNP_P4_11481_34599657	NC_021160.1	Ca_kabuli_chr01	34599657	GG	AA	1946737688
SNP_P4_11482_34600561	NC_021160.1	Ca_kabuli_chr01	34600561	TT	GG	1946737690
SNP_P4_11483_34602979	NC_021160.1	Ca_kabuli_chr01	34602979	CC	TT	1946737692
SNP_P4_11484_34602992	NC_021160.1	Ca_kabuli_chr01	34602992	GG	AA	1946737693
SNP_P4_11485_34603513	NC_021160.1	Ca_kabuli_chr01	34603513	CC	GG	1946737696
SNP_P4_11486_34614489	NC_021160.1	Ca_kabuli_chr01	34614489	TT	CC	1946737698
SNP_P4_11487_34624062	NC_021160.1	Ca_kabuli_chr01	34624062	AA	GG	1946737700
SNP_P4_11488_34624912	NC_021160.1	Ca_kabuli_chr01	34624912	AA	GG	1946737702
SNP_P4_11489_34625389	NC_021160.1	Ca_kabuli_chr01	34625389	AA	GG	1946737703
SNP_P4_11490_34625562	NC_021160.1	Ca_kabuli_chr01	34625562	GG	CC	1946737705
SNP_P4_11491_34625778	NC_021160.1	Ca_kabuli_chr01	34625778	TT	GG	1946737707
SNP_P4_11493_34634658	NC_021160.1	Ca_kabuli_chr01	34634658	GG	AA	1946737709
SNP_P4_11494_34644553	NC_021160.1	Ca_kabuli_chr01	34644553	TT	GG	1946737711
SNP_P4_11495_34646077	NC_021160.1	Ca_kabuli_chr01	34646077	TT	AA	1946737713
SNP_P4_11496_34646152	NC_021160.1	Ca_kabuli_chr01	34646152	TT	GG	1946737715
SNP_P4_11497_34653542	NC_021160.1	Ca_kabuli_chr01	34653542	TT	CC	1946737717
SNP_P4_11498_34658854	NC_021160.1	Ca_kabuli_chr01	34658854	TT	AA	1946737719
SNP_P4_11499_34659988	NC_021160.1	Ca_kabuli_chr01	34659988	TT	CC	1946737721
SNP_P4_11500_34662793	NC_021160.1	Ca_kabuli_chr01	34662793	AA	GG	1946737723
SNP_P4_11501_34664729	NC_021160.1	Ca_kabuli_chr01	34664729	TT	CC	1946737724
SNP_P4_11502_34665198	NC_021160.1	Ca_kabuli_chr01	34665198	TT	GG	1946737726
SNP_P4_11504_34672464	NC_021160.1	Ca_kabuli_chr01	34672464	AA	GG	1946737728
SNP_P4_11505_34675273	NC_021160.1	Ca_kabuli_chr01	34675273	GG	AA	1946737730
SNP_P4_11506_34675703	NC_021160.1	Ca_kabuli_chr01	34675703	TT	CC	1946737732
SNP_P4_11507_34682778	NC_021160.1	Ca_kabuli_chr01	34682778	CC	GG	1946737734
SNP_P4_11508_34685106	NC_021160.1	Ca_kabuli_chr01	34685106	GG	AA	1946737736
SNP_P4_11509_34687730	NC_021160.1	Ca_kabuli_chr01	34687730	TT	CC	1946737738
SNP_P4_11510_34691077	NC_021160.1	Ca_kabuli_chr01	34691077	AA	CC	1946737740
SNP_P4_11511_34691091	NC_021160.1	Ca_kabuli_chr01	34691091	AA	GG	1946737742
SNP_P4_11512_34691216	NC_021160.1	Ca_kabuli_chr01	34691216	AA	GG	1946737744
SNP_P4_11513_34691592	NC_021160.1	Ca_kabuli_chr01	34691592	TT	GG	1946737746
SNP_P4_11514_34691598	NC_021160.1	Ca_kabuli_chr01	34691598	TT	CC	1946737748
SNP_P4_11515_34692213	NC_021160.1	Ca_kabuli_chr01	34692213	AA	GG	1946737750
SNP_P4_11518_34694836	NC_021160.1	Ca_kabuli_chr01	34694836	TT	AA	1946737753
SNP_P4_11520_34704265	NC_021160.1	Ca_kabuli_chr01	34704265	CC	TT	1946737755
SNP_P4_11521_34704990	NC_021160.1	Ca_kabuli_chr01	34704990	TT	AA	1946737757
SNP_P4_11522_34704999	NC_021160.1	Ca_kabuli_chr01	34704999	CC	TT	1946737759
SNP_P4_11523_34707455	NC_021160.1	Ca_kabuli_chr01	34707455	GG	CC	1946737761
SNP_P4_11524_34710100	NC_021160.1	Ca_kabuli_chr01	34710100	CC	TT	1946737763
SNP_P4_11525_34714575	NC_021160.1	Ca_kabuli_chr01	34714575	CC	TT	1946737764

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_11526_34714595	NC_021160.1	Ca_kabuli_chr01	34714595	TT	CC	1946737766
SNP_P4_11527_34714608	NC_021160.1	Ca_kabuli_chr01	34714608	AA	GG	1946737768
SNP_P4_11528_34714610	NC_021160.1	Ca_kabuli_chr01	34714610	GG	CC	1946737770
SNP_P4_11529_34714635	NC_021160.1	Ca_kabuli_chr01	34714635	CC	TT	1946737772
SNP_P4_11530_34723309	NC_021160.1	Ca_kabuli_chr01	34723309	AA	GG	1946737774
SNP_P4_11532_34730498	NC_021160.1	Ca_kabuli_chr01	34730498	CC	AA	1946737776
SNP_P4_11533_34731177	NC_021160.1	Ca_kabuli_chr01	34731177	AA	GG	1946737778
SNP_P4_11534_34736605	NC_021160.1	Ca_kabuli_chr01	34736605	TT	CC	1946737780
SNP_P4_11535_34739096	NC_021160.1	Ca_kabuli_chr01	34739096	CC	AA	1946737782
SNP_P4_11536_34739556	NC_021160.1	Ca_kabuli_chr01	34739556	TT	AA	1946737783
SNP_P4_11537_34744668	NC_021160.1	Ca_kabuli_chr01	34744668	CC	TT	1946737785
SNP_P4_11538_34745137	NC_021160.1	Ca_kabuli_chr01	34745137	AA	GG	1946737787
SNP_P4_11539_34747286	NC_021160.1	Ca_kabuli_chr01	34747286	TT	CC	1946737789
SNP_P4_11540_34757430	NC_021160.1	Ca_kabuli_chr01	34757430	AA	GG	1946737791
SNP_P4_11541_34757966	NC_021160.1	Ca_kabuli_chr01	34757966	CC	AA	1946737793
SNP_P4_11543_34768514	NC_021160.1	Ca_kabuli_chr01	34768514	AA	CC	1946737795
SNP_P4_11544_34786482	NC_021160.1	Ca_kabuli_chr01	34786482	TT	CC	1946737797
SNP_P4_11545_34786576	NC_021160.1	Ca_kabuli_chr01	34786576	CC	AA	1946737799
SNP_P4_11546_34806044	NC_021160.1	Ca_kabuli_chr01	34806044	AA	TT	1946737800
SNP_P4_11547_34806045	NC_021160.1	Ca_kabuli_chr01	34806045	AA	CC	1946737802
SNP_P4_11548_34806603	NC_021160.1	Ca_kabuli_chr01	34806603	TT	GG	1946737804
SNP_P4_11549_34808029	NC_021160.1	Ca_kabuli_chr01	34808029	CC	TT	1946737806
SNP_P4_11550_34809201	NC_021160.1	Ca_kabuli_chr01	34809201	TT	GG	1946737808
SNP_P4_11551_34809952	NC_021160.1	Ca_kabuli_chr01	34809952	TT	CC	1946737810
SNP_P4_11554_34818440	NC_021160.1	Ca_kabuli_chr01	34818440	AA	GG	1946737812
SNP_P4_11555_34818459	NC_021160.1	Ca_kabuli_chr01	34818459	TT	CC	1946737814
SNP_P4_11557_34828533	NC_021160.1	Ca_kabuli_chr01	34828533	GG	AA	1946737816
SNP_P4_11558_34835382	NC_021160.1	Ca_kabuli_chr01	34835382	TT	CC	1946737818
SNP_P4_11559_34842189	NC_021160.1	Ca_kabuli_chr01	34842189	CC	TT	1946737819
SNP_P4_11560_34844886	NC_021160.1	Ca_kabuli_chr01	34844886	TT	CC	1946737821
SNP_P4_11562_34848500	NC_021160.1	Ca_kabuli_chr01	34848500	GG	TT	1946737823
SNP_P4_11563_34848904	NC_021160.1	Ca_kabuli_chr01	34848904	AA	GG	1946737825
SNP_P4_11565_34854169	NC_021160.1	Ca_kabuli_chr01	34854169	TT	CC	1946737827
SNP_P4_11566_34854736	NC_021160.1	Ca_kabuli_chr01	34854736	GG	AA	1946737829
SNP_P4_11567_34858489	NC_021160.1	Ca_kabuli_chr01	34858489	CC	GG	1946737831
SNP_P4_11568_34865496	NC_021160.1	Ca_kabuli_chr01	34865496	AA	GG	1946737833
SNP_P4_11569_34865515	NC_021160.1	Ca_kabuli_chr01	34865515	AA	GG	1946737835
SNP_P4_11570_34865652	NC_021160.1	Ca_kabuli_chr01	34865652	AA	GG	1946737837
SNP_P4_11571_34865756	NC_021160.1	Ca_kabuli_chr01	34865756	GG	AA	1946737839
SNP_P4_11573_34868996	NC_021160.1	Ca_kabuli_chr01	34868996	AA	TT	1946737841
SNP_P4_11574_34877401	NC_021160.1	Ca_kabuli_chr01	34877401	CC	TT	1946737843
SNP_P4_11575_34877426	NC_021160.1	Ca_kabuli_chr01	34877426	CC	AA	1946737845

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_11577_34883347	NC_021160.1	Ca_kabuli_chr01	34883347	TT	AA	1946737849
SNP_P4_11578_34883383	NC_021160.1	Ca_kabuli_chr01	34883383	GG	AA	1946737851
SNP_P4_11580_34895751	NC_021160.1	Ca_kabuli_chr01	34895751	GG	CC	1946737853
SNP_P4_11581_34895908	NC_021160.1	Ca_kabuli_chr01	34895908	GG	AA	1946737855
SNP_P4_11582_34902946	NC_021160.1	Ca_kabuli_chr01	34902946	AA	CC	1946737857
SNP_P4_11583_34905211	NC_021160.1	Ca_kabuli_chr01	34905211	GG	CC	1946737859
SNP_P4_11585_34908640	NC_021160.1	Ca_kabuli_chr01	34908640	AA	TT	1946737861
SNP_P4_11587_34914603	NC_021160.1	Ca_kabuli_chr01	34914603	CC	TT	1946737863
SNP_P4_11588_34914870	NC_021160.1	Ca_kabuli_chr01	34914870	CC	TT	1946737865
SNP_P4_11589_34916210	NC_021160.1	Ca_kabuli_chr01	34916210	TT	AA	1946737867
SNP_P4_11591_34921142	NC_021160.1	Ca_kabuli_chr01	34921142	AA	CC	1946737869
SNP_P4_11592_34922802	NC_021160.1	Ca_kabuli_chr01	34922802	CC	TT	1946737871
SNP_P4_11593_34933764	NC_021160.1	Ca_kabuli_chr01	34933764	GG	TT	1946737873
SNP_P4_11594_34933765	NC_021160.1	Ca_kabuli_chr01	34933765	GG	CC	1946737875
SNP_P4_11595_34933766	NC_021160.1	Ca_kabuli_chr01	34933766	AA	CC	1946737877
SNP_P4_11597_34942418	NC_021160.1	Ca_kabuli_chr01	34942418	GG	AA	1946737879
SNP_P4_11598_34951368	NC_021160.1	Ca_kabuli_chr01	34951368	CC	TT	1946737881
SNP_P4_11599_34954467	NC_021160.1	Ca_kabuli_chr01	34954467	CC	GG	1946737883
SNP_P4_11600_34955301	NC_021160.1	Ca_kabuli_chr01	34955301	GG	AA	1946737885
SNP_P4_11601_34957116	NC_021160.1	Ca_kabuli_chr01	34957116	CC	TT	1946737887
SNP_P4_11602_34962316	NC_021160.1	Ca_kabuli_chr01	34962316	CC	TT	1946737889
SNP_P4_11603_34970986	NC_021160.1	Ca_kabuli_chr01	34970986	GG	AA	1946737891
SNP_P4_11605_34971072	NC_021160.1	Ca_kabuli_chr01	34971072	AA	CC	1946737893
SNP_P4_11606_34971315	NC_021160.1	Ca_kabuli_chr01	34971315	CC	TT	1946737895
SNP_P4_11607_34971332	NC_021160.1	Ca_kabuli_chr01	34971332	GG	AA	1946737897
SNP_P4_11608_34971337	NC_021160.1	Ca_kabuli_chr01	34971337	AA	GG	1946737899
SNP_P4_11609_34971488	NC_021160.1	Ca_kabuli_chr01	34971488	GG	AA	1946737901
SNP_P4_11610_34971522	NC_021160.1	Ca_kabuli_chr01	34971522	AA	GG	1946737903
SNP_P4_11611_34972422	NC_021160.1	Ca_kabuli_chr01	34972422	TT	CC	1946737905
SNP_P4_11613_34987093	NC_021160.1	Ca_kabuli_chr01	34987093	CC	TT	1946737907
SNP_P4_11614_34988990	NC_021160.1	Ca_kabuli_chr01	34988990	TT	CC	1946737909
SNP_P4_11615_34989029	NC_021160.1	Ca_kabuli_chr01	34989029	GG	AA	1946737911
SNP_P4_11616_34989034	NC_021160.1	Ca_kabuli_chr01	34989034	CC	TT	1946737913
SNP_P4_11617_34989057	NC_021160.1	Ca_kabuli_chr01	34989057	TT	CC	1946737915
SNP_P4_11618_34989064	NC_021160.1	Ca_kabuli_chr01	34989064	AA	GG	1946737917
SNP_P4_11619_34989079	NC_021160.1	Ca_kabuli_chr01	34989079	AA	CC	1946737919
SNP_P4_11620_34989095	NC_021160.1	Ca_kabuli_chr01	34989095	TT	CC	1946737921
SNP_P4_11621_34989128	NC_021160.1	Ca_kabuli_chr01	34989128	GG	AA	1946737923
SNP_P4_11622_34989206	NC_021160.1	Ca_kabuli_chr01	34989206	GG	AA	1946737925
SNP_P4_11623_34991825	NC_021160.1	Ca_kabuli_chr01	34991825	CC	TT	1946737927
SNP_P4_11624_34992229	NC_021160.1	Ca_kabuli_chr01	34992229	TT	CC	1946737929

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_11626_34993765	NC_021160.1	Ca_kabuli_chr01	34993765	GG	AA	1946737933
SNP_P4_11627_34995024	NC_021160.1	Ca_kabuli_chr01	34995024	GG	AA	1946737935
SNP_P4_11628_34996650	NC_021160.1	Ca_kabuli_chr01	34996650	AA	GG	1946737937
SNP_P4_11629_34996667	NC_021160.1	Ca_kabuli_chr01	34996667	AA	GG	1946737939
SNP_P4_11630_34996679	NC_021160.1	Ca_kabuli_chr01	34996679	CC	AA	1946737941
SNP_P4_11631_34996970	NC_021160.1	Ca_kabuli_chr01	34996970	GG	TT	1946737943
SNP_P4_11632_34997012	NC_021160.1	Ca_kabuli_chr01	34997012	CC	TT	1946737945
SNP_P4_11633_34997060	NC_021160.1	Ca_kabuli_chr01	34997060	GG	AA	1946737947
SNP_P4_11634_34997070	NC_021160.1	Ca_kabuli_chr01	34997070	GG	AA	1946737949
SNP_P4_11635_34998131	NC_021160.1	Ca_kabuli_chr01	34998131	GG	AA	1946737951
SNP_P4_11636_35000035	NC_021160.1	Ca_kabuli_chr01	35000035	GG	AA	1946737953
SNP_P4_11637_35003812	NC_021160.1	Ca_kabuli_chr01	35003812	CC	TT	1946737955
SNP_P4_11638_35007373	NC_021160.1	Ca_kabuli_chr01	35007373	TT	AA	1946737957
SNP_P4_11639_35007713	NC_021160.1	Ca_kabuli_chr01	35007713	GG	TT	1946737959
SNP_P4_11640_35011571	NC_021160.1	Ca_kabuli_chr01	35011571	TT	AA	1946737961
SNP_P4_11641_35024063	NC_021160.1	Ca_kabuli_chr01	35024063	TT	CC	1946737963
SNP_P4_11642_35024070	NC_021160.1	Ca_kabuli_chr01	35024070	CC	TT	1946737965
SNP_P4_11643_35029619	NC_021160.1	Ca_kabuli_chr01	35029619	AA	TT	1946737967
SNP_P4_11644_35036940	NC_021160.1	Ca_kabuli_chr01	35036940	TT	CC	1946737969
SNP_P4_11645_35038844	NC_021160.1	Ca_kabuli_chr01	35038844	TT	AA	1946737971
SNP_P4_11647_35046092	NC_021160.1	Ca_kabuli_chr01	35046092	GG	TT	1946737973
SNP_P4_11648_35049158	NC_021160.1	Ca_kabuli_chr01	35049158	TT	AA	1946737975
SNP_P4_11649_35049193	NC_021160.1	Ca_kabuli_chr01	35049193	GG	AA	1946737977
SNP_P4_11650_35055037	NC_021160.1	Ca_kabuli_chr01	35055037	CC	AA	1946737979
SNP_P4_11651_35057514	NC_021160.1	Ca_kabuli_chr01	35057514	CC	TT	1946737981
SNP_P4_11652_35057889	NC_021160.1	Ca_kabuli_chr01	35057889	CC	TT	1946737983
SNP_P4_11654_35059876	NC_021160.1	Ca_kabuli_chr01	35059876	TT	AA	1946737985
SNP_P4_11656_35060021	NC_021160.1	Ca_kabuli_chr01	35060021	AA	TT	1946737987
SNP_P4_11659_35062255	NC_021160.1	Ca_kabuli_chr01	35062255	TT	AA	1946737989
SNP_P4_11660_35063857	NC_021160.1	Ca_kabuli_chr01	35063857	TT	CC	1946737991
SNP_P4_11661_35063903	NC_021160.1	Ca_kabuli_chr01	35063903	AA	GG	1946737993
SNP_P4_11662_35063929	NC_021160.1	Ca_kabuli_chr01	35063929	AA	GG	1946737995
SNP_P4_11663_35064694	NC_021160.1	Ca_kabuli_chr01	35064694	TT	CC	1946737997
SNP_P4_11664_35068581	NC_021160.1	Ca_kabuli_chr01	35068581	TT	CC	1946737999
SNP_P4_11665_35070458	NC_021160.1	Ca_kabuli_chr01	35070458	CC	AA	1946738001
SNP_P4_11666_35071987	NC_021160.1	Ca_kabuli_chr01	35071987	CC	TT	1946738003
SNP_P4_11667_35072158	NC_021160.1	Ca_kabuli_chr01	35072158	CC	TT	1946738005
SNP_P4_11669_35074570	NC_021160.1	Ca_kabuli_chr01	35074570	GG	TT	1946738007
SNP_P4_11670_35075531	NC_021160.1	Ca_kabuli_chr01	35075531	AA	TT	1946738009
SNP_P4_11671_35077260	NC_021160.1	Ca_kabuli_chr01	35077260	AA	GG	1946738011
SNP_P4_11672_35077554	NC_021160.1	Ca_kabuli_chr01	35077554	CC	TT	1946738013

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_11674_35078734	NC_021160.1	Ca_kabuli_chr01	35078734	AA	CC	1946738017
SNP_P4_11675_35078768	NC_021160.1	Ca_kabuli_chr01	35078768	CC	AA	1946738019
SNP_P4_11676_35078873	NC_021160.1	Ca_kabuli_chr01	35078873	AA	TT	1946738021
SNP_P4_11677_35084600	NC_021160.1	Ca_kabuli_chr01	35084600	GG	AA	1946738023
SNP_P4_11678_35087422	NC_021160.1	Ca_kabuli_chr01	35087422	AA	CC	1946738025
SNP_P4_11679_35091343	NC_021160.1	Ca_kabuli_chr01	35091343	AA	GG	1946738027
SNP_P4_11681_35092481	NC_021160.1	Ca_kabuli_chr01	35092481	AA	GG	1946738029
SNP_P4_11683_35096750	NC_021160.1	Ca_kabuli_chr01	35096750	AA	GG	1946738031
SNP_P4_11684_35097234	NC_021160.1	Ca_kabuli_chr01	35097234	AA	GG	1946738033
SNP_P4_11685_35100894	NC_021160.1	Ca_kabuli_chr01	35100894	GG	AA	1946738034
SNP_P4_11686_35100895	NC_021160.1	Ca_kabuli_chr01	35100895	AA	TT	1946738035
SNP_P4_11687_35102932	NC_021160.1	Ca_kabuli_chr01	35102932	AA	GG	1946738036
SNP_P4_11688_35105456	NC_021160.1	Ca_kabuli_chr01	35105456	AA	GG	1946738037
SNP_P4_11689_35105815	NC_021160.1	Ca_kabuli_chr01	35105815	TT	CC	1946738039
SNP_P4_11690_35108351	NC_021160.1	Ca_kabuli_chr01	35108351	GG	CC	1946738041
SNP_P4_11691_35108359	NC_021160.1	Ca_kabuli_chr01	35108359	TT	AA	1946738043
SNP_P4_11692_35109140	NC_021160.1	Ca_kabuli_chr01	35109140	AA	TT	1946738045
SNP_P4_11693_35109558	NC_021160.1	Ca_kabuli_chr01	35109558	AA	TT	1946738047
SNP_P4_11694_35109795	NC_021160.1	Ca_kabuli_chr01	35109795	CC	AA	1946738049
SNP_P4_11695_35111608	NC_021160.1	Ca_kabuli_chr01	35111608	TT	AA	1946738051
SNP_P4_11696_35111629	NC_021160.1	Ca_kabuli_chr01	35111629	CC	TT	1946738053
SNP_P4_11697_35111644	NC_021160.1	Ca_kabuli_chr01	35111644	AA	GG	1946738056
SNP_P4_11699_35125701	NC_021160.1	Ca_kabuli_chr01	35125701	GG	TT	1946738058
SNP_P4_11700_35125855	NC_021160.1	Ca_kabuli_chr01	35125855	AA	GG	1946738060
SNP_P4_11701_35133315	NC_021160.1	Ca_kabuli_chr01	35133315	GG	AA	1946738062
SNP_P4_11702_35135772	NC_021160.1	Ca_kabuli_chr01	35135772	CC	TT	1946738064
SNP_P4_11703_35137423	NC_021160.1	Ca_kabuli_chr01	35137423	TT	AA	1946738066
SNP_P4_11704_35139998	NC_021160.1	Ca_kabuli_chr01	35139998	AA	TT	1946738068
SNP_P4_11705_35141049	NC_021160.1	Ca_kabuli_chr01	35141049	GG	CC	1946738070
SNP_P4_11707_35141989	NC_021160.1	Ca_kabuli_chr01	35141989	TT	GG	1946738072
SNP_P4_11708_35141994	NC_021160.1	Ca_kabuli_chr01	35141994	AA	CC	1946738074
SNP_P4_11709_35142562	NC_021160.1	Ca_kabuli_chr01	35142562	TT	CC	1946738076
SNP_P4_11710_35142569	NC_021160.1	Ca_kabuli_chr01	35142569	TT	AA	1946738078
SNP_P4_11711_35142581	NC_021160.1	Ca_kabuli_chr01	35142581	AA	CC	1946738080
SNP_P4_11712_35142587	NC_021160.1	Ca_kabuli_chr01	35142587	CC	TT	1946738082
SNP_P4_11713_35142642	NC_021160.1	Ca_kabuli_chr01	35142642	AA	CC	1946738084
SNP_P4_11714_35145642	NC_021160.1	Ca_kabuli_chr01	35145642	AA	TT	1946738086
SNP_P4_11715_35145963	NC_021160.1	Ca_kabuli_chr01	35145963	TT	CC	1946738088
SNP_P4_11716_35146244	NC_021160.1	Ca_kabuli_chr01	35146244	TT	CC	1946738090
SNP_P4_11717_35146431	NC_021160.1	Ca_kabuli_chr01	35146431	CC	AA	1946738092
SNP_P4_11718_35146433	NC_021160.1	Ca_kabuli_chr01	35146433	AA	GG	1946738094

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_11720_35146488	NC_021160.1	Ca_kabuli_chr01	35146488	GG	AA	1946738098
SNP_P4_11721_35149339	NC_021160.1	Ca_kabuli_chr01	35149339	TT	AA	1946738099
SNP_P4_11722_35149367	NC_021160.1	Ca_kabuli_chr01	35149367	AA	GG	1946738101
SNP_P4_11723_35149368	NC_021160.1	Ca_kabuli_chr01	35149368	CC	TT	1946738103
SNP_P4_11724_35149370	NC_021160.1	Ca_kabuli_chr01	35149370	TT	AA	1946738105
SNP_P4_11725_35150005	NC_021160.1	Ca_kabuli_chr01	35150005	AA	GG	1946738107
SNP_P4_11726_35150033	NC_021160.1	Ca_kabuli_chr01	35150033	GG	AA	1946738109
SNP_P4_11727_35150344	NC_021160.1	Ca_kabuli_chr01	35150344	AA	GG	1946738111
SNP_P4_11728_35151295	NC_021160.1	Ca_kabuli_chr01	35151295	CC	GG	1946738113
SNP_P4_11729_35151303	NC_021160.1	Ca_kabuli_chr01	35151303	CC	TT	1946738115
SNP_P4_11730_35151339	NC_021160.1	Ca_kabuli_chr01	35151339	TT	AA	1946738117
SNP_P4_11731_35151485	NC_021160.1	Ca_kabuli_chr01	35151485	TT	CC	1946738119
SNP_P4_11732_35151499	NC_021160.1	Ca_kabuli_chr01	35151499	CC	TT	1946738121
SNP_P4_11733_35154541	NC_021160.1	Ca_kabuli_chr01	35154541	AA	GG	1946738124
SNP_P4_11734_35155665	NC_021160.1	Ca_kabuli_chr01	35155665	TT	AA	1946738126
SNP_P4_11736_35156020	NC_021160.1	Ca_kabuli_chr01	35156020	AA	GG	1946738128
SNP_P4_11738_35156092	NC_021160.1	Ca_kabuli_chr01	35156092	GG	AA	1946738130
SNP_P4_11739_35157098	NC_021160.1	Ca_kabuli_chr01	35157098	GG	AA	1946738132
SNP_P4_11740_35157525	NC_021160.1	Ca_kabuli_chr01	35157525	GG	TT	1946738134
SNP_P4_11741_35157864	NC_021160.1	Ca_kabuli_chr01	35157864	GG	AA	1946738136
SNP_P4_11742_35157887	NC_021160.1	Ca_kabuli_chr01	35157887	AA	GG	1946738138
SNP_P4_11743_35158393	NC_021160.1	Ca_kabuli_chr01	35158393	AA	GG	1946738140
SNP_P4_11744_35158409	NC_021160.1	Ca_kabuli_chr01	35158409	CC	TT	1946738142
SNP_P4_11745_35158413	NC_021160.1	Ca_kabuli_chr01	35158413	TT	CC	1946738145
SNP_P4_11746_35158449	NC_021160.1	Ca_kabuli_chr01	35158449	GG	AA	1946738146
SNP_P4_11747_35158720	NC_021160.1	Ca_kabuli_chr01	35158720	AA	TT	1946738147
SNP_P4_11748_35158769	NC_021160.1	Ca_kabuli_chr01	35158769	AA	GG	1946738148
SNP_P4_11749_35159965	NC_021160.1	Ca_kabuli_chr01	35159965	CC	TT	1946738149
SNP_P4_11750_35167354	NC_021160.1	Ca_kabuli_chr01	35167354	GG	CC	1946738150
SNP_P4_11751_35167624	NC_021160.1	Ca_kabuli_chr01	35167624	CC	TT	1946738152
SNP_P4_11753_35167939	NC_021160.1	Ca_kabuli_chr01	35167939	CC	AA	1946738154
SNP_P4_11754_35168165	NC_021160.1	Ca_kabuli_chr01	35168165	AA	CC	1946738156
SNP_P4_11755_35168194	NC_021160.1	Ca_kabuli_chr01	35168194	AA	CC	1946738158
SNP_P4_11756_35168265	NC_021160.1	Ca_kabuli_chr01	35168265	CC	TT	1946738160
SNP_P4_11757_35169626	NC_021160.1	Ca_kabuli_chr01	35169626	TT	CC	1946738162
SNP_P4_11758_35169639	NC_021160.1	Ca_kabuli_chr01	35169639	TT	AA	1946738164
SNP_P4_11759_35171137	NC_021160.1	Ca_kabuli_chr01	35171137	GG	AA	1946738166
SNP_P4_11760_35171451	NC_021160.1	Ca_kabuli_chr01	35171451	CC	TT	1946738168
SNP_P4_11761_35176475	NC_021160.1	Ca_kabuli_chr01	35176475	TT	CC	1946738170
SNP_P4_11762_35176513	NC_021160.1	Ca_kabuli_chr01	35176513	AA	GG	1946738172
SNP_P4_11763_35176523	NC_021160.1	Ca_kabuli_chr01	35176523	CC	TT	1946738174

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_11765_35176881	NC_021160.1	Ca_kabuli_chr01	35176881	CC	GG	1946738178
SNP_P4_11766_35177934	NC_021160.1	Ca_kabuli_chr01	35177934	GG	CC	1946738180
SNP_P4_11767_35177939	NC_021160.1	Ca_kabuli_chr01	35177939	CC	TT	1946738181
SNP_P4_11768_35178343	NC_021160.1	Ca_kabuli_chr01	35178343	AA	GG	1946738183
SNP_P4_11769_35179419	NC_021160.1	Ca_kabuli_chr01	35179419	AA	GG	1946738185
SNP_P4_11770_35179448	NC_021160.1	Ca_kabuli_chr01	35179448	GG	AA	1946738187
SNP_P4_11772_35181119	NC_021160.1	Ca_kabuli_chr01	35181119	AA	GG	1946738189
SNP_P4_11773_35181293	NC_021160.1	Ca_kabuli_chr01	35181293	TT	AA	1946738191
SNP_P4_11774_35182687	NC_021160.1	Ca_kabuli_chr01	35182687	GG	AA	1946738193
SNP_P4_11775_35182831	NC_021160.1	Ca_kabuli_chr01	35182831	TT	CC	1946738195
SNP_P4_11776_35182846	NC_021160.1	Ca_kabuli_chr01	35182846	GG	AA	1946738197
SNP_P4_11777_35182917	NC_021160.1	Ca_kabuli_chr01	35182917	CC	TT	1946738199
SNP_P4_11778_35182918	NC_021160.1	Ca_kabuli_chr01	35182918	TT	CC	1946738201
SNP_P4_11779_35182925	NC_021160.1	Ca_kabuli_chr01	35182925	GG	AA	1946738203
SNP_P4_11780_35183921	NC_021160.1	Ca_kabuli_chr01	35183921	TT	CC	1946738205
SNP_P4_11781_35183973	NC_021160.1	Ca_kabuli_chr01	35183973	CC	TT	1946738207
SNP_P4_11782_35184197	NC_021160.1	Ca_kabuli_chr01	35184197	GG	TT	1946738209
SNP_P4_11783_35184200	NC_021160.1	Ca_kabuli_chr01	35184200	AA	GG	1946738211
SNP_P4_11784_35184223	NC_021160.1	Ca_kabuli_chr01	35184223	AA	GG	1946738213
SNP_P4_11785_35184256	NC_021160.1	Ca_kabuli_chr01	35184256	TT	CC	1946738214
SNP_P4_11786_35184258	NC_021160.1	Ca_kabuli_chr01	35184258	GG	TT	1946738216
SNP_P4_11787_35184493	NC_021160.1	Ca_kabuli_chr01	35184493	GG	TT	1946738218
SNP_P4_11788_35184514	NC_021160.1	Ca_kabuli_chr01	35184514	CC	TT	1946738220
SNP_P4_11789_35184558	NC_021160.1	Ca_kabuli_chr01	35184558	TT	CC	1946738222
SNP_P4_11790_35184723	NC_021160.1	Ca_kabuli_chr01	35184723	GG	AA	1946738224
SNP_P4_11791_35184758	NC_021160.1	Ca_kabuli_chr01	35184758	AA	GG	1946738226
SNP_P4_11792_35185571	NC_021160.1	Ca_kabuli_chr01	35185571	GG	TT	1946738228
SNP_P4_11793_35185844	NC_021160.1	Ca_kabuli_chr01	35185844	AA	GG	1946738230
SNP_P4_11795_35186228	NC_021160.1	Ca_kabuli_chr01	35186228	TT	GG	1946738232
SNP_P4_11797_35187592	NC_021160.1	Ca_kabuli_chr01	35187592	GG	AA	1946738234
SNP_P4_11798_35206108	NC_021160.1	Ca_kabuli_chr01	35206108	TT	GG	1946738236
SNP_P4_11799_35206137	NC_021160.1	Ca_kabuli_chr01	35206137	CC	TT	1946738238
SNP_P4_11800_35213939	NC_021160.1	Ca_kabuli_chr01	35213939	GG	AA	1946738240
SNP_P4_11801_35215595	NC_021160.1	Ca_kabuli_chr01	35215595	AA	GG	1946738242
SNP_P4_11802_35215596	NC_021160.1	Ca_kabuli_chr01	35215596	GG	TT	1946738244
SNP_P4_11803_35216106	NC_021160.1	Ca_kabuli_chr01	35216106	GG	AA	1946738246
SNP_P4_11804_35217768	NC_021160.1	Ca_kabuli_chr01	35217768	AA	CC	1946738248
SNP_P4_11805_35218140	NC_021160.1	Ca_kabuli_chr01	35218140	TT	CC	1946738250
SNP_P4_11806_35221939	NC_021160.1	Ca_kabuli_chr01	35221939	TT	CC	1946738252
SNP_P4_11807_35221964	NC_021160.1	Ca_kabuli_chr01	35221964	GG	AA	1946738254
SNP_P4_11809_35222246	NC_021160.1	Ca_kabuli_chr01	35222246	TT	CC	1946738256

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_11811_35223251	NC_021160.1	Ca_kabuli_chr01	35223251	GG	AA	1946738260
SNP_P4_11812_35223304	NC_021160.1	Ca_kabuli_chr01	35223304	CC	GG	1946738262
SNP_P4_11813_35223322	NC_021160.1	Ca_kabuli_chr01	35223322	TT	CC	1946738263
SNP_P4_11814_35223571	NC_021160.1	Ca_kabuli_chr01	35223571	TT	AA	1946738265
SNP_P4_11815_35224667	NC_021160.1	Ca_kabuli_chr01	35224667	CC	TT	1946738267
SNP_P4_11816_35224711	NC_021160.1	Ca_kabuli_chr01	35224711	CC	TT	1946738269
SNP_P4_11817_35225005	NC_021160.1	Ca_kabuli_chr01	35225005	GG	AA	1946738271
SNP_P4_11818_35225018	NC_021160.1	Ca_kabuli_chr01	35225018	CC	GG	1946738273
SNP_P4_11819_35225055	NC_021160.1	Ca_kabuli_chr01	35225055	TT	CC	1946738275
SNP_P4_11820_35225122	NC_021160.1	Ca_kabuli_chr01	35225122	CC	GG	1946738277
SNP_P4_11821_35225438	NC_021160.1	Ca_kabuli_chr01	35225438	CC	TT	1946738279
SNP_P4_11822_35225647	NC_021160.1	Ca_kabuli_chr01	35225647	GG	TT	1946738281
SNP_P4_11823_35225827	NC_021160.1	Ca_kabuli_chr01	35225827	TT	GG	1946738283
SNP_P4_11824_35226335	NC_021160.1	Ca_kabuli_chr01	35226335	GG	TT	1946738285
SNP_P4_11825_35226496	NC_021160.1	Ca_kabuli_chr01	35226496	TT	CC	1946738287
SNP_P4_11826_35226553	NC_021160.1	Ca_kabuli_chr01	35226553	AA	CC	1946738289
SNP_P4_11827_35226560	NC_021160.1	Ca_kabuli_chr01	35226560	GG	CC	1946738291
SNP_P4_11828_35226793	NC_021160.1	Ca_kabuli_chr01	35226793	AA	CC	1946738293
SNP_P4_11830_35227345	NC_021160.1	Ca_kabuli_chr01	35227345	AA	TT	1946738295
SNP_P4_11831_35227375	NC_021160.1	Ca_kabuli_chr01	35227375	GG	AA	1946738296
SNP_P4_11832_35227532	NC_021160.1	Ca_kabuli_chr01	35227532	GG	AA	1946738298
SNP_P4_11833_35227567	NC_021160.1	Ca_kabuli_chr01	35227567	AA	GG	1946738300
SNP_P4_11834_35227569	NC_021160.1	Ca_kabuli_chr01	35227569	TT	CC	1946738302
SNP_P4_11835_35227573	NC_021160.1	Ca_kabuli_chr01	35227573	TT	CC	1946738304
SNP_P4_11836_35227577	NC_021160.1	Ca_kabuli_chr01	35227577	AA	GG	1946738306
SNP_P4_11837_35227727	NC_021160.1	Ca_kabuli_chr01	35227727	AA	CC	1946738308
SNP_P4_11838_35227734	NC_021160.1	Ca_kabuli_chr01	35227734	TT	GG	1946738310
SNP_P4_11839_35227773	NC_021160.1	Ca_kabuli_chr01	35227773	TT	CC	1946738312
SNP_P4_11841_35227815	NC_021160.1	Ca_kabuli_chr01	35227815	TT	CC	1946738314
SNP_P4_11842_35227915	NC_021160.1	Ca_kabuli_chr01	35227915	CC	AA	1946738316
SNP_P4_11843_35229234	NC_021160.1	Ca_kabuli_chr01	35229234	GG	AA	1946738318
SNP_P4_11844_35229596	NC_021160.1	Ca_kabuli_chr01	35229596	AA	CC	1946738320
SNP_P4_11845_35230196	NC_021160.1	Ca_kabuli_chr01	35230196	CC	AA	1946738322
SNP_P4_11846_35230644	NC_021160.1	Ca_kabuli_chr01	35230644	CC	AA	1946738324
SNP_P4_11847_35230967	NC_021160.1	Ca_kabuli_chr01	35230967	AA	GG	1946738326
SNP_P4_11848_35230974	NC_021160.1	Ca_kabuli_chr01	35230974	TT	CC	1946738328
SNP_P4_11849_35231389	NC_021160.1	Ca_kabuli_chr01	35231389	TT	CC	1946738330
SNP_P4_11850_35231399	NC_021160.1	Ca_kabuli_chr01	35231399	TT	GG	1946738332
SNP_P4_11851_35232182	NC_021160.1	Ca_kabuli_chr01	35232182	CC	TT	1946738334
SNP_P4_11852_35232895	NC_021160.1	Ca_kabuli_chr01	35232895	AA	TT	1946738336
SNP_P4_11853_35232933	NC_021160.1	Ca_kabuli_chr01	35232933	CC	GG	1946738338

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_11856_35233115	NC_021160.1	Ca_kabuli_chr01	35233115	TT	AA	1946738342
SNP_P4_11857_35233600	NC_021160.1	Ca_kabuli_chr01	35233600	GG	AA	1946738344
SNP_P4_11858_35233942	NC_021160.1	Ca_kabuli_chr01	35233942	TT	GG	1946738346
SNP_P4_11859_35235822	NC_021160.1	Ca_kabuli_chr01	35235822	GG	TT	1946738348
SNP_P4_11860_35235849	NC_021160.1	Ca_kabuli_chr01	35235849	TT	AA	1946738350
SNP_P4_11862_35236169	NC_021160.1	Ca_kabuli_chr01	35236169	GG	AA	1946738352
SNP_P4_11864_35236194	NC_021160.1	Ca_kabuli_chr01	35236194	AA	GG	1946738354
SNP_P4_11866_35238890	NC_021160.1	Ca_kabuli_chr01	35238890	GG	TT	1946738356
SNP_P4_11867_35239062	NC_021160.1	Ca_kabuli_chr01	35239062	AA	GG	1946738359
SNP_P4_11868_35239117	NC_021160.1	Ca_kabuli_chr01	35239117	AA	CC	1946738361
SNP_P4_11869_35239303	NC_021160.1	Ca_kabuli_chr01	35239303	TT	CC	1946738363
SNP_P4_11870_35239360	NC_021160.1	Ca_kabuli_chr01	35239360	GG	CC	1946738365
SNP_P4_11871_35240077	NC_021160.1	Ca_kabuli_chr01	35240077	GG	AA	1946738367
SNP_P4_11872_35240104	NC_021160.1	Ca_kabuli_chr01	35240104	CC	AA	1946738369
SNP_P4_11873_35240142	NC_021160.1	Ca_kabuli_chr01	35240142	GG	AA	1946738372
SNP_P4_11874_35240162	NC_021160.1	Ca_kabuli_chr01	35240162	AA	GG	1946738374
SNP_P4_11875_35240163	NC_021160.1	Ca_kabuli_chr01	35240163	TT	CC	1946738376
SNP_P4_11877_35240315	NC_021160.1	Ca_kabuli_chr01	35240315	GG	AA	1946738378
SNP_P4_11878_35240330	NC_021160.1	Ca_kabuli_chr01	35240330	TT	GG	1946738380
SNP_P4_11879_35240383	NC_021160.1	Ca_kabuli_chr01	35240383	AA	GG	1946738382
SNP_P4_11880_35240424	NC_021160.1	Ca_kabuli_chr01	35240424	AA	TT	1946738385
SNP_P4_11881_35240455	NC_021160.1	Ca_kabuli_chr01	35240455	GG	TT	1946738387
SNP_P4_11882_35240470	NC_021160.1	Ca_kabuli_chr01	35240470	GG	AA	1946738389
SNP_P4_11883_35240543	NC_021160.1	Ca_kabuli_chr01	35240543	CC	TT	1946738391
SNP_P4_11884_35240562	NC_021160.1	Ca_kabuli_chr01	35240562	AA	CC	1946738393
SNP_P4_11885_35240603	NC_021160.1	Ca_kabuli_chr01	35240603	AA	CC	1946738395
SNP_P4_11886_35240618	NC_021160.1	Ca_kabuli_chr01	35240618	TT	CC	1946738397
SNP_P4_11887_35240622	NC_021160.1	Ca_kabuli_chr01	35240622	AA	GG	1946738399
SNP_P4_11888_35240656	NC_021160.1	Ca_kabuli_chr01	35240656	AA	CC	1946738402
SNP_P4_11889_35240667	NC_021160.1	Ca_kabuli_chr01	35240667	CC	TT	1946738404
SNP_P4_11891_35241191	NC_021160.1	Ca_kabuli_chr01	35241191	TT	AA	1946738406
SNP_P4_11892_35242978	NC_021160.1	Ca_kabuli_chr01	35242978	AA	CC	1946738408
SNP_P4_11893_35243540	NC_021160.1	Ca_kabuli_chr01	35243540	AA	GG	1946738410
SNP_P4_11894_35243678	NC_021160.1	Ca_kabuli_chr01	35243678	AA	TT	1946738412
SNP_P4_11895_35243703	NC_021160.1	Ca_kabuli_chr01	35243703	TT	CC	1946738414
SNP_P4_11896_35243736	NC_021160.1	Ca_kabuli_chr01	35243736	TT	AA	1946738416
SNP_P4_11897_35243773	NC_021160.1	Ca_kabuli_chr01	35243773	GG	TT	1946738418
SNP_P4_11898_35243804	NC_021160.1	Ca_kabuli_chr01	35243804	CC	AA	1946738420
SNP_P4_11899_35244240	NC_021160.1	Ca_kabuli_chr01	35244240	AA	TT	1946738422
SNP_P4_11900_35244514	NC_021160.1	Ca_kabuli_chr01	35244514	GG	TT	1946738424
SNP_P4_11901_35244603	NC_021160.1	Ca_kabuli_chr01	35244603	CC	AA	1946738426

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_11904_35246516	NC_021160.1	Ca_kabuli_chr01	35246516	GG	TT	1946738430
SNP_P4_11905_35246846	NC_021160.1	Ca_kabuli_chr01	35246846	TT	CC	1946738433
SNP_P4_11906_35248827	NC_021160.1	Ca_kabuli_chr01	35248827	AA	TT	1946738435
SNP_P4_11907_35249192	NC_021160.1	Ca_kabuli_chr01	35249192	GG	CC	1946738437
SNP_P4_11908_35249211	NC_021160.1	Ca_kabuli_chr01	35249211	GG	AA	1946738439
SNP_P4_11910_35252038	NC_021160.1	Ca_kabuli_chr01	35252038	TT	GG	1946738441
SNP_P4_11911_35252073	NC_021160.1	Ca_kabuli_chr01	35252073	TT	GG	1946738443
SNP_P4_11912_35252264	NC_021160.1	Ca_kabuli_chr01	35252264	CC	AA	1946738445
SNP_P4_11913_35252272	NC_021160.1	Ca_kabuli_chr01	35252272	TT	GG	1946738447
SNP_P4_11914_35252552	NC_021160.1	Ca_kabuli_chr01	35252552	GG	AA	1946738449
SNP_P4_11915_35252594	NC_021160.1	Ca_kabuli_chr01	35252594	CC	TT	1946738451
SNP_P4_11916_35254793	NC_021160.1	Ca_kabuli_chr01	35254793	GG	TT	1946738453
SNP_P4_11917_35255376	NC_021160.1	Ca_kabuli_chr01	35255376	TT	AA	1946738455
SNP_P4_11918_35256217	NC_021160.1	Ca_kabuli_chr01	35256217	CC	AA	1946738458
SNP_P4_11919_35256507	NC_021160.1	Ca_kabuli_chr01	35256507	CC	AA	1946738460
SNP_P4_11920_35256530	NC_021160.1	Ca_kabuli_chr01	35256530	GG	AA	1946738462
SNP_P4_11921_35257471	NC_021160.1	Ca_kabuli_chr01	35257471	AA	GG	1946738464
SNP_P4_11922_35257492	NC_021160.1	Ca_kabuli_chr01	35257492	TT	GG	1946738466
SNP_P4_11923_35257827	NC_021160.1	Ca_kabuli_chr01	35257827	GG	AA	1946738468
SNP_P4_11924_35259167	NC_021160.1	Ca_kabuli_chr01	35259167	AA	CC	1946738470
SNP_P4_11925_35259754	NC_021160.1	Ca_kabuli_chr01	35259754	AA	GG	1946738472
SNP_P4_11926_35259781	NC_021160.1	Ca_kabuli_chr01	35259781	AA	GG	1946738474
SNP_P4_11927_35259868	NC_021160.1	Ca_kabuli_chr01	35259868	GG	AA	1946738476
SNP_P4_11928_35260430	NC_021160.1	Ca_kabuli_chr01	35260430	CC	AA	1946738478
SNP_P4_11930_35260510	NC_021160.1	Ca_kabuli_chr01	35260510	AA	CC	1946738481
SNP_P4_11931_35260627	NC_021160.1	Ca_kabuli_chr01	35260627	TT	CC	1946738483
SNP_P4_11932_35260785	NC_021160.1	Ca_kabuli_chr01	35260785	CC	TT	1946738485
SNP_P4_11933_35260808	NC_021160.1	Ca_kabuli_chr01	35260808	GG	AA	1946738487
SNP_P4_11934_35260848	NC_021160.1	Ca_kabuli_chr01	35260848	AA	GG	1946738489
SNP_P4_11935_35260922	NC_021160.1	Ca_kabuli_chr01	35260922	TT	CC	1946738491
SNP_P4_11936_35261030	NC_021160.1	Ca_kabuli_chr01	35261030	TT	GG	1946738493
SNP_P4_11937_35261045	NC_021160.1	Ca_kabuli_chr01	35261045	GG	TT	1946738495
SNP_P4_11938_35261112	NC_021160.1	Ca_kabuli_chr01	35261112	GG	AA	1946738497
SNP_P4_11939_35261240	NC_021160.1	Ca_kabuli_chr01	35261240	CC	TT	1946738499
SNP_P4_11940_35261245	NC_021160.1	Ca_kabuli_chr01	35261245	AA	GG	1946738501
SNP_P4_11941_35261272	NC_021160.1	Ca_kabuli_chr01	35261272	GG	AA	1946738503
SNP_P4_11942_35261312	NC_021160.1	Ca_kabuli_chr01	35261312	CC	AA	1946738505
SNP_P4_11943_35261327	NC_021160.1	Ca_kabuli_chr01	35261327	AA	GG	1946738507
SNP_P4_11944_35261349	NC_021160.1	Ca_kabuli_chr01	35261349	AA	TT	1946738510
SNP_P4_11945_35261403	NC_021160.1	Ca_kabuli_chr01	35261403	TT	AA	1946738512
SNP_P4_11946_35261404	NC_021160.1	Ca_kabuli_chr01	35261404	TT	AA	1946738514

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_11948_35261407	NC_021160.1	Ca_kabuli_chr01	35261407	CC	TT	1946738518
SNP_P4_11949_35261432	NC_021160.1	Ca_kabuli_chr01	35261432	CC	AA	1946738520
SNP_P4_11950_35261484	NC_021160.1	Ca_kabuli_chr01	35261484	AA	TT	1946738522
SNP_P4_11951_35261509	NC_021160.1	Ca_kabuli_chr01	35261509	TT	AA	1946738524
SNP_P4_11952_35261560	NC_021160.1	Ca_kabuli_chr01	35261560	TT	CC	1946738527
SNP_P4_11953_35261582	NC_021160.1	Ca_kabuli_chr01	35261582	CC	TT	1946738529
SNP_P4_11954_35261686	NC_021160.1	Ca_kabuli_chr01	35261686	GG	AA	1946738531
SNP_P4_11956_35261858	NC_021160.1	Ca_kabuli_chr01	35261858	AA	CC	1946738533
SNP_P4_11957_35261886	NC_021160.1	Ca_kabuli_chr01	35261886	AA	CC	1946738535
SNP_P4_11958_35261890	NC_021160.1	Ca_kabuli_chr01	35261890	CC	GG	1946738537
SNP_P4_11959_35261893	NC_021160.1	Ca_kabuli_chr01	35261893	CC	TT	1946738539
SNP_P4_11960_35261906	NC_021160.1	Ca_kabuli_chr01	35261906	CC	TT	1946738541
SNP_P4_11961_35261965	NC_021160.1	Ca_kabuli_chr01	35261965	TT	GG	1946738543
SNP_P4_11962_35261968	NC_021160.1	Ca_kabuli_chr01	35261968	AA	CC	1946738545
SNP_P4_11963_35261997	NC_021160.1	Ca_kabuli_chr01	35261997	TT	CC	1946738547
SNP_P4_11964_35262001	NC_021160.1	Ca_kabuli_chr01	35262001	TT	CC	1946738549
SNP_P4_11965_35262006	NC_021160.1	Ca_kabuli_chr01	35262006	TT	AA	1946738551
SNP_P4_11966_35262020	NC_021160.1	Ca_kabuli_chr01	35262020	TT	CC	1946738553
SNP_P4_11967_35262029	NC_021160.1	Ca_kabuli_chr01	35262029	CC	AA	1946738555
SNP_P4_11968_35262069	NC_021160.1	Ca_kabuli_chr01	35262069	AA	GG	1946738557
SNP_P4_11969_35262071	NC_021160.1	Ca_kabuli_chr01	35262071	GG	AA	1946738559
SNP_P4_11970_35262110	NC_021160.1	Ca_kabuli_chr01	35262110	TT	CC	1946738561
SNP_P4_11971_35264078	NC_021160.1	Ca_kabuli_chr01	35264078	CC	TT	1946738563
SNP_P4_11972_35264268	NC_021160.1	Ca_kabuli_chr01	35264268	AA	TT	1946738565
SNP_P4_11973_35264271	NC_021160.1	Ca_kabuli_chr01	35264271	TT	CC	1946738567
SNP_P4_11974_35264282	NC_021160.1	Ca_kabuli_chr01	35264282	CC	TT	1946738569
SNP_P4_11975_35264496	NC_021160.1	Ca_kabuli_chr01	35264496	GG	TT	1946738571
SNP_P4_11976_35264546	NC_021160.1	Ca_kabuli_chr01	35264546	GG	AA	1946738573
SNP_P4_11978_35264656	NC_021160.1	Ca_kabuli_chr01	35264656	AA	GG	1946738575
SNP_P4_11979_35264660	NC_021160.1	Ca_kabuli_chr01	35264660	CC	AA	1946738577
SNP_P4_11981_35264803	NC_021160.1	Ca_kabuli_chr01	35264803	TT	CC	1946738579
SNP_P4_11982_35264806	NC_021160.1	Ca_kabuli_chr01	35264806	TT	AA	1946738582
SNP_P4_11983_35264807	NC_021160.1	Ca_kabuli_chr01	35264807	AA	TT	1946738584
SNP_P4_11984_35264810	NC_021160.1	Ca_kabuli_chr01	35264810	GG	AA	1946738586
SNP_P4_11985_35264824	NC_021160.1	Ca_kabuli_chr01	35264824	CC	GG	1946738588
SNP_P4_11986_35264877	NC_021160.1	Ca_kabuli_chr01	35264877	AA	CC	1946738590
SNP_P4_11987_35264922	NC_021160.1	Ca_kabuli_chr01	35264922	AA	GG	1946738592
SNP_P4_11988_35264924	NC_021160.1	Ca_kabuli_chr01	35264924	TT	CC	1946738594
SNP_P4_11989_35264925	NC_021160.1	Ca_kabuli_chr01	35264925	CC	TT	1946738595
SNP_P4_11990_35264960	NC_021160.1	Ca_kabuli_chr01	35264960	CC	TT	1946738597
SNP_P4_11991_35264961	NC_021160.1	Ca_kabuli_chr01	35264961	CC	TT	1946738599

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_11993_35264982	NC_021160.1	Ca_kabuli_chr01	35264982	GG	AA	1946738603
SNP_P4_11994_35265004	NC_021160.1	Ca_kabuli_chr01	35265004	GG	TT	1946738605
SNP_P4_11995_35265008	NC_021160.1	Ca_kabuli_chr01	35265008	CC	AA	1946738607
SNP_P4_11996_35265016	NC_021160.1	Ca_kabuli_chr01	35265016	AA	TT	1946738609
SNP_P4_11997_35265046	NC_021160.1	Ca_kabuli_chr01	35265046	TT	CC	1946738611
SNP_P4_11998_35265059	NC_021160.1	Ca_kabuli_chr01	35265059	GG	AA	1946738613
SNP_P4_11999_35265150	NC_021160.1	Ca_kabuli_chr01	35265150	CC	TT	1946738615
SNP_P4_12000_35265229	NC_021160.1	Ca_kabuli_chr01	35265229	CC	AA	1946738617
SNP_P4_12001_35265231	NC_021160.1	Ca_kabuli_chr01	35265231	CC	TT	1946738619
SNP_P4_12002_35265274	NC_021160.1	Ca_kabuli_chr01	35265274	CC	TT	1946738621
SNP_P4_12003_35265303	NC_021160.1	Ca_kabuli_chr01	35265303	CC	GG	1946738623
SNP_P4_12004_35265304	NC_021160.1	Ca_kabuli_chr01	35265304	GG	AA	1946738625
SNP_P4_12005_35265374	NC_021160.1	Ca_kabuli_chr01	35265374	GG	AA	1946738627
SNP_P4_12006_35265433	NC_021160.1	Ca_kabuli_chr01	35265433	CC	TT	1946738629
SNP_P4_12007_35265449	NC_021160.1	Ca_kabuli_chr01	35265449	CC	GG	1946738631
SNP_P4_12008_35265456	NC_021160.1	Ca_kabuli_chr01	35265456	GG	AA	1946738633
SNP_P4_12009_35265467	NC_021160.1	Ca_kabuli_chr01	35265467	CC	TT	1946738635
SNP_P4_12011_35265540	NC_021160.1	Ca_kabuli_chr01	35265540	AA	CC	1946738637
SNP_P4_12012_35265545	NC_021160.1	Ca_kabuli_chr01	35265545	CC	TT	1946738639
SNP_P4_12013_35265724	NC_021160.1	Ca_kabuli_chr01	35265724	GG	AA	1946738641
SNP_P4_12014_35265760	NC_021160.1	Ca_kabuli_chr01	35265760	AA	TT	1946738643
SNP_P4_12015_35265780	NC_021160.1	Ca_kabuli_chr01	35265780	AA	GG	1946738646
SNP_P4_12016_35265809	NC_021160.1	Ca_kabuli_chr01	35265809	AA	GG	1946738648
SNP_P4_12017_35265815	NC_021160.1	Ca_kabuli_chr01	35265815	TT	CC	1946738651
SNP_P4_12018_35265852	NC_021160.1	Ca_kabuli_chr01	35265852	TT	GG	1946738653
SNP_P4_12019_35265887	NC_021160.1	Ca_kabuli_chr01	35265887	AA	TT	1946738655
SNP_P4_12020_35265916	NC_021160.1	Ca_kabuli_chr01	35265916	TT	CC	1946738657
SNP_P4_12021_35265965	NC_021160.1	Ca_kabuli_chr01	35265965	AA	TT	1946738659
SNP_P4_12022_35266005	NC_021160.1	Ca_kabuli_chr01	35266005	CC	GG	1946738661
SNP_P4_12023_35266006	NC_021160.1	Ca_kabuli_chr01	35266006	AA	GG	1946738663
SNP_P4_12024_35266060	NC_021160.1	Ca_kabuli_chr01	35266060	AA	TT	1946738665
SNP_P4_12025_35266088	NC_021160.1	Ca_kabuli_chr01	35266088	CC	TT	1946738667
SNP_P4_12026_35266213	NC_021160.1	Ca_kabuli_chr01	35266213	GG	CC	1946738669
SNP_P4_12028_35266253	NC_021160.1	Ca_kabuli_chr01	35266253	AA	GG	1946738671
SNP_P4_12029_35266267	NC_021160.1	Ca_kabuli_chr01	35266267	CC	AA	1946738673
SNP_P4_12030_35266330	NC_021160.1	Ca_kabuli_chr01	35266330	GG	AA	1946738675
SNP_P4_12031_35266345	NC_021160.1	Ca_kabuli_chr01	35266345	TT	GG	1946738677
SNP_P4_12032_35267390	NC_021160.1	Ca_kabuli_chr01	35267390	TT	AA	1946738679
SNP_P4_12033_35267425	NC_021160.1	Ca_kabuli_chr01	35267425	AA	GG	1946738681
SNP_P4_12034_35272700	NC_021160.1	Ca_kabuli_chr01	35272700	AA	GG	1946738683
SNP_P4_12035_35275695	NC_021160.1	Ca_kabuli_chr01	35275695	AA	GG	1946738685

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_12037_35275721	NC_021160.1	Ca_kabuli_chr01	35275721	TT	CC	1946738689
SNP_P4_12038_35281147	NC_021160.1	Ca_kabuli_chr01	35281147	GG	CC	1946738690
SNP_P4_12039_35281262	NC_021160.1	Ca_kabuli_chr01	35281262	CC	TT	1946738692
SNP_P4_12040_35281288	NC_021160.1	Ca_kabuli_chr01	35281288	CC	TT	1946738694
SNP_P4_12041_35281315	NC_021160.1	Ca_kabuli_chr01	35281315	GG	AA	1946738696
SNP_P4_12042_35281322	NC_021160.1	Ca_kabuli_chr01	35281322	CC	GG	1946738698
SNP_P4_12043_35281425	NC_021160.1	Ca_kabuli_chr01	35281425	AA	TT	1946738700
SNP_P4_12044_35281431	NC_021160.1	Ca_kabuli_chr01	35281431	TT	AA	1946738702
SNP_P4_12046_35281461	NC_021160.1	Ca_kabuli_chr01	35281461	AA	GG	1946738704
SNP_P4_12048_35281532	NC_021160.1	Ca_kabuli_chr01	35281532	AA	CC	1946738706
SNP_P4_12050_35281605	NC_021160.1	Ca_kabuli_chr01	35281605	AA	GG	1946738708
SNP_P4_12051_35281766	NC_021160.1	Ca_kabuli_chr01	35281766	GG	AA	1946738709
SNP_P4_12052_35281770	NC_021160.1	Ca_kabuli_chr01	35281770	CC	TT	1946738711
SNP_P4_12053_35281863	NC_021160.1	Ca_kabuli_chr01	35281863	CC	AA	1946738713
SNP_P4_12054_35281869	NC_021160.1	Ca_kabuli_chr01	35281869	AA	GG	1946738715
SNP_P4_12055_35281873	NC_021160.1	Ca_kabuli_chr01	35281873	AA	TT	1946738717
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SNP_P4_12061_35282302	NC_021160.1	Ca_kabuli_chr01	35282302	TT	CC	1946738727
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SNP_P4_12067_35282714	NC_021160.1	Ca_kabuli_chr01	35282714	CC	TT	1946738738
SNP_P4_12068_35282732	NC_021160.1	Ca_kabuli_chr01	35282732	GG	AA	1946738740
SNP_P4_12069_35282750	NC_021160.1	Ca_kabuli_chr01	35282750	TT	CC	1946738742
SNP_P4_12070_35282770	NC_021160.1	Ca_kabuli_chr01	35282770	CC	TT	1946738744
SNP_P4_12072_35282825	NC_021160.1	Ca_kabuli_chr01	35282825	TT	CC	1946738746
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SNP_P4_12074_35282980	NC_021160.1	Ca_kabuli_chr01	35282980	TT	AA	1946738750
SNP_P4_12075_35282987	NC_021160.1	Ca_kabuli_chr01	35282987	TT	CC	1946738752
SNP_P4_12076_35283011	NC_021160.1	Ca_kabuli_chr01	35283011	TT	CC	1946738754
SNP_P4_12077_35283017	NC_021160.1	Ca_kabuli_chr01	35283017	AA	TT	1946738756
SNP_P4_12078_35283061	NC_021160.1	Ca_kabuli_chr01	35283061	AA	TT	1946738758
SNP_P4_12079_35283079	NC_021160.1	Ca_kabuli_chr01	35283079	TT	GG	1946738760
SNP_P4_12080_35283259	NC_021160.1	Ca_kabuli_chr01	35283259	AA	GG	1946738762
SNP_P4_12081_35283309	NC_021160.1	Ca_kabuli_chr01	35283309	AA	GG	1946738764
SNP_P4_12082_35283338	NC_021160.1	Ca_kabuli_chr01	35283338	GG	TT	1946738766

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_12085_35283521	NC_021160.1	Ca_kabuli_chr01	35283521	GG	TT	1946738772
SNP_P4_12086_35283676	NC_021160.1	Ca_kabuli_chr01	35283676	AA	TT	1946738774
SNP_P4_12087_35283677	NC_021160.1	Ca_kabuli_chr01	35283677	AA	CC	1946738776
SNP_P4_12088_35283706	NC_021160.1	Ca_kabuli_chr01	35283706	TT	AA	1946738778
SNP_P4_12089_35283729	NC_021160.1	Ca_kabuli_chr01	35283729	AA	CC	1946738780
SNP_P4_12091_35283879	NC_021160.1	Ca_kabuli_chr01	35283879	TT	GG	1946738782
SNP_P4_12093_35284024	NC_021160.1	Ca_kabuli_chr01	35284024	CC	TT	1946738784
SNP_P4_12094_35284065	NC_021160.1	Ca_kabuli_chr01	35284065	CC	TT	1946738786
SNP_P4_12095_35284069	NC_021160.1	Ca_kabuli_chr01	35284069	TT	CC	1946738788
SNP_P4_12096_35284182	NC_021160.1	Ca_kabuli_chr01	35284182	TT	AA	1946738790
SNP_P4_12097_35284200	NC_021160.1	Ca_kabuli_chr01	35284200	AA	CC	1946738792
SNP_P4_12099_35284347	NC_021160.1	Ca_kabuli_chr01	35284347	AA	TT	1946738794
SNP_P4_12100_35284364	NC_021160.1	Ca_kabuli_chr01	35284364	TT	AA	1946738796
SNP_P4_12101_35284377	NC_021160.1	Ca_kabuli_chr01	35284377	TT	AA	1946738798
SNP_P4_12102_35284393	NC_021160.1	Ca_kabuli_chr01	35284393	GG	TT	1946738800
SNP_P4_12103_35284469	NC_021160.1	Ca_kabuli_chr01	35284469	GG	TT	1946738802
SNP_P4_12104_35284485	NC_021160.1	Ca_kabuli_chr01	35284485	GG	AA	1946738804
SNP_P4_12105_35284553	NC_021160.1	Ca_kabuli_chr01	35284553	GG	AA	1946738806
SNP_P4_12106_35284628	NC_021160.1	Ca_kabuli_chr01	35284628	AA	CC	1946738808
SNP_P4_12107_35284680	NC_021160.1	Ca_kabuli_chr01	35284680	AA	GG	1946738810
SNP_P4_12109_35284918	NC_021160.1	Ca_kabuli_chr01	35284918	GG	TT	1946738812
SNP_P4_12110_35284959	NC_021160.1	Ca_kabuli_chr01	35284959	CC	TT	1946738814
SNP_P4_12111_35284987	NC_021160.1	Ca_kabuli_chr01	35284987	TT	GG	1946738816
SNP_P4_12112_35285040	NC_021160.1	Ca_kabuli_chr01	35285040	AA	CC	1946738818
SNP_P4_12114_35285155	NC_021160.1	Ca_kabuli_chr01	35285155	AA	CC	1946738820
SNP_P4_12115_35285217	NC_021160.1	Ca_kabuli_chr01	35285217	TT	CC	1946738822
SNP_P4_12116_35285331	NC_021160.1	Ca_kabuli_chr01	35285331	TT	AA	1946738824
SNP_P4_12117_35285491	NC_021160.1	Ca_kabuli_chr01	35285491	TT	CC	1946738826
SNP_P4_12118_35285510	NC_021160.1	Ca_kabuli_chr01	35285510	AA	GG	1946738829
SNP_P4_12120_35285538	NC_021160.1	Ca_kabuli_chr01	35285538	AA	TT	1946738831
SNP_P4_12122_35285596	NC_021160.1	Ca_kabuli_chr01	35285596	CC	TT	1946738833
SNP_P4_12123_35285615	NC_021160.1	Ca_kabuli_chr01	35285615	TT	CC	1946738835
SNP_P4_12125_35285680	NC_021160.1	Ca_kabuli_chr01	35285680	TT	CC	1946738837
SNP_P4_12126_35285793	NC_021160.1	Ca_kabuli_chr01	35285793	TT	CC	1946738839
SNP_P4_12127_35285807	NC_021160.1	Ca_kabuli_chr01	35285807	GG	AA	1946738841
SNP_P4_12128_35285842	NC_021160.1	Ca_kabuli_chr01	35285842	CC	TT	1946738843
SNP_P4_12129_35285855	NC_021160.1	Ca_kabuli_chr01	35285855	TT	CC	1946738845
SNP_P4_12130_35286031	NC_021160.1	Ca_kabuli_chr01	35286031	AA	GG	1946738847
SNP_P4_12131_35286035	NC_021160.1	Ca_kabuli_chr01	35286035	AA	GG	1946738849
SNP_P4_12132_35286044	NC_021160.1	Ca_kabuli_chr01	35286044	GG	AA	1946738851

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_12134_35287764	NC_021160.1	Ca_kabuli_chr01	35287764	CC	AA	1946738855
SNP_P4_12135_35287805	NC_021160.1	Ca_kabuli_chr01	35287805	GG	AA	1946738857
SNP_P4_12136_35287835	NC_021160.1	Ca_kabuli_chr01	35287835	GG	AA	1946738859
SNP_P4_12137_35287872	NC_021160.1	Ca_kabuli_chr01	35287872	CC	TT	1946738861
SNP_P4_12138_35287890	NC_021160.1	Ca_kabuli_chr01	35287890	GG	TT	1946738863
SNP_P4_12139_35287894	NC_021160.1	Ca_kabuli_chr01	35287894	CC	TT	1946738865
SNP_P4_12140_35287948	NC_021160.1	Ca_kabuli_chr01	35287948	TT	AA	1946738867
SNP_P4_12141_35287985	NC_021160.1	Ca_kabuli_chr01	35287985	TT	GG	1946738869
SNP_P4_12142_35288000	NC_021160.1	Ca_kabuli_chr01	35288000	CC	TT	1946738871
SNP_P4_12143_35288018	NC_021160.1	Ca_kabuli_chr01	35288018	GG	AA	1946738872
SNP_P4_12144_35288090	NC_021160.1	Ca_kabuli_chr01	35288090	TT	GG	1946738874
SNP_P4_12145_35288314	NC_021160.1	Ca_kabuli_chr01	35288314	AA	TT	1946738876
SNP_P4_12147_35288438	NC_021160.1	Ca_kabuli_chr01	35288438	AA	GG	1946738878
SNP_P4_12148_35288926	NC_021160.1	Ca_kabuli_chr01	35288926	TT	AA	1946738880
SNP_P4_12149_35288932	NC_021160.1	Ca_kabuli_chr01	35288932	TT	CC	1946738882
SNP_P4_12150_35288944	NC_021160.1	Ca_kabuli_chr01	35288944	GG	AA	1946738884
SNP_P4_12151_35288987	NC_021160.1	Ca_kabuli_chr01	35288987	GG	TT	1946738886
SNP_P4_12152_35289014	NC_021160.1	Ca_kabuli_chr01	35289014	CC	TT	1946738888
SNP_P4_12153_35289106	NC_021160.1	Ca_kabuli_chr01	35289106	GG	AA	1946738890
SNP_P4_12154_35289148	NC_021160.1	Ca_kabuli_chr01	35289148	TT	CC	1946738892
SNP_P4_12155_35289156	NC_021160.1	Ca_kabuli_chr01	35289156	CC	TT	1946738894
SNP_P4_12156_35289295	NC_021160.1	Ca_kabuli_chr01	35289295	TT	CC	1946738896
SNP_P4_12157_35289371	NC_021160.1	Ca_kabuli_chr01	35289371	GG	AA	1946738898
SNP_P4_12158_35290342	NC_021160.1	Ca_kabuli_chr01	35290342	AA	GG	1946738900
SNP_P4_12159_35290632	NC_021160.1	Ca_kabuli_chr01	35290632	AA	GG	1946738902
SNP_P4_12160_35290673	NC_021160.1	Ca_kabuli_chr01	35290673	AA	TT	1946738904
SNP_P4_12161_35290874	NC_021160.1	Ca_kabuli_chr01	35290874	TT	CC	1946738906
SNP_P4_12163_35290944	NC_021160.1	Ca_kabuli_chr01	35290944	TT	CC	1946738908
SNP_P4_12164_35290953	NC_021160.1	Ca_kabuli_chr01	35290953	TT	CC	1946738910
SNP_P4_12165_35291529	NC_021160.1	Ca_kabuli_chr01	35291529	CC	TT	1946738912
SNP_P4_12166_35291830	NC_021160.1	Ca_kabuli_chr01	35291830	AA	TT	1946738914
SNP_P4_12167_35291870	NC_021160.1	Ca_kabuli_chr01	35291870	CC	TT	1946738916
SNP_P4_12168_35291909	NC_021160.1	Ca_kabuli_chr01	35291909	AA	TT	1946738918
SNP_P4_12169_35292034	NC_021160.1	Ca_kabuli_chr01	35292034	GG	AA	1946738920
SNP_P4_12170_35292188	NC_021160.1	Ca_kabuli_chr01	35292188	GG	CC	1946738922
SNP_P4_12171_35292640	NC_021160.1	Ca_kabuli_chr01	35292640	AA	GG	1946738924
SNP_P4_12172_35292647	NC_021160.1	Ca_kabuli_chr01	35292647	CC	AA	1946738926
SNP_P4_12173_35292652	NC_021160.1	Ca_kabuli_chr01	35292652	TT	GG	1946738928
SNP_P4_12174_35292667	NC_021160.1	Ca_kabuli_chr01	35292667	CC	TT	1946738930
SNP_P4_12175_35292700	NC_021160.1	Ca_kabuli_chr01	35292700	AA	GG	1946738932
SNP_P4_12176_35292880	NC_021160.1	Ca_kabuli_chr01	35292880	AA	TT	1946738934

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_12178_35293034	NC_021160.1	Ca_kabuli_chr01	35293034	GG	CC	1946738938
SNP_P4_12179_35293041	NC_021160.1	Ca_kabuli_chr01	35293041	AA	CC	1946738940
SNP_P4_12180_35293072	NC_021160.1	Ca_kabuli_chr01	35293072	GG	TT	1946738941
SNP_P4_12181_35293161	NC_021160.1	Ca_kabuli_chr01	35293161	AA	TT	1946738943
SNP_P4_12182_35293162	NC_021160.1	Ca_kabuli_chr01	35293162	TT	GG	1946738945
SNP_P4_12183_35293181	NC_021160.1	Ca_kabuli_chr01	35293181	GG	AA	1946738947
SNP_P4_12184_35293182	NC_021160.1	Ca_kabuli_chr01	35293182	TT	CC	1946738949
SNP_P4_12185_35293336	NC_021160.1	Ca_kabuli_chr01	35293336	TT	CC	1946738951
SNP_P4_12186_35293497	NC_021160.1	Ca_kabuli_chr01	35293497	GG	AA	1946738952
SNP_P4_12187_35293499	NC_021160.1	Ca_kabuli_chr01	35293499	AA	GG	1946738953
SNP_P4_12188_35293516	NC_021160.1	Ca_kabuli_chr01	35293516	TT	CC	1946738954
SNP_P4_12189_35294243	NC_021160.1	Ca_kabuli_chr01	35294243	AA	GG	1946738955
SNP_P4_12190_35294275	NC_021160.1	Ca_kabuli_chr01	35294275	CC	TT	1946738956
SNP_P4_12191_35295662	NC_021160.1	Ca_kabuli_chr01	35295662	CC	GG	1946738957
SNP_P4_12192_35295954	NC_021160.1	Ca_kabuli_chr01	35295954	CC	AA	1946738959
SNP_P4_12193_35295958	NC_021160.1	Ca_kabuli_chr01	35295958	AA	GG	1946738961
SNP_P4_12194_35296241	NC_021160.1	Ca_kabuli_chr01	35296241	CC	TT	1946738963
SNP_P4_12195_35296358	NC_021160.1	Ca_kabuli_chr01	35296358	CC	TT	1946738965
SNP_P4_12196_35296365	NC_021160.1	Ca_kabuli_chr01	35296365	GG	CC	1946738967
SNP_P4_12197_35296415	NC_021160.1	Ca_kabuli_chr01	35296415	TT	CC	1946738969
SNP_P4_12198_35296683	NC_021160.1	Ca_kabuli_chr01	35296683	TT	CC	1946738971
SNP_P4_12199_35296871	NC_021160.1	Ca_kabuli_chr01	35296871	AA	TT	1946738974
SNP_P4_12201_35300714	NC_021160.1	Ca_kabuli_chr01	35300714	CC	TT	1946738976
SNP_P4_12202_35300746	NC_021160.1	Ca_kabuli_chr01	35300746	GG	TT	1946738978
SNP_P4_12203_35300771	NC_021160.1	Ca_kabuli_chr01	35300771	AA	GG	1946738980
SNP_P4_12204_35300793	NC_021160.1	Ca_kabuli_chr01	35300793	TT	CC	1946738982
SNP_P4_12205_35300819	NC_021160.1	Ca_kabuli_chr01	35300819	AA	CC	1946738984
SNP_P4_12206_35304272	NC_021160.1	Ca_kabuli_chr01	35304272	GG	AA	1946738986
SNP_P4_12207_35304273	NC_021160.1	Ca_kabuli_chr01	35304273	TT	CC	1946738988
SNP_P4_12208_35304879	NC_021160.1	Ca_kabuli_chr01	35304879	GG	TT	1946738990
SNP_P4_12209_35304880	NC_021160.1	Ca_kabuli_chr01	35304880	AA	CC	1946738992
SNP_P4_12210_35305259	NC_021160.1	Ca_kabuli_chr01	35305259	CC	TT	1946738994
SNP_P4_12211_35308370	NC_021160.1	Ca_kabuli_chr01	35308370	TT	CC	1946738996
SNP_P4_12212_35309738	NC_021160.1	Ca_kabuli_chr01	35309738	CC	TT	1946738998
SNP_P4_12213_35310103	NC_021160.1	Ca_kabuli_chr01	35310103	CC	TT	1946739000
SNP_P4_12214_35310329	NC_021160.1	Ca_kabuli_chr01	35310329	TT	GG	1946739002
SNP_P4_12215_35310332	NC_021160.1	Ca_kabuli_chr01	35310332	TT	AA	1946739004
SNP_P4_12216_35310340	NC_021160.1	Ca_kabuli_chr01	35310340	TT	CC	1946739006
SNP_P4_12217_35310344	NC_021160.1	Ca_kabuli_chr01	35310344	GG	AA	1946739008
SNP_P4_12218_35310363	NC_021160.1	Ca_kabuli_chr01	35310363	AA	TT	1946739010
SNP_P4_12219_35310388	NC_021160.1	Ca_kabuli_chr01	35310388	AA	TT	1946739012

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_12221_35310561	NC_021160.1	Ca_kabuli_chr01	35310561	CC	TT	1946739015
SNP_P4_12222_35310583	NC_021160.1	Ca_kabuli_chr01	35310583	TT	GG	1946739017
SNP_P4_12223_35310603	NC_021160.1	Ca_kabuli_chr01	35310603	AA	GG	1946739019
SNP_P4_12224_35310607	NC_021160.1	Ca_kabuli_chr01	35310607	TT	CC	1946739021
SNP_P4_12225_35310692	NC_021160.1	Ca_kabuli_chr01	35310692	TT	AA	1946739023
SNP_P4_12226_35310726	NC_021160.1	Ca_kabuli_chr01	35310726	GG	AA	1946739025
SNP_P4_12228_35310767	NC_021160.1	Ca_kabuli_chr01	35310767	AA	TT	1946739027
SNP_P4_12229_35310793	NC_021160.1	Ca_kabuli_chr01	35310793	TT	AA	1946739029
SNP_P4_12230_35310825	NC_021160.1	Ca_kabuli_chr01	35310825	GG	AA	1946739031
SNP_P4_12232_35310865	NC_021160.1	Ca_kabuli_chr01	35310865	AA	TT	1946739033
SNP_P4_12233_35310887	NC_021160.1	Ca_kabuli_chr01	35310887	AA	GG	1946739035
SNP_P4_12234_35310944	NC_021160.1	Ca_kabuli_chr01	35310944	TT	GG	1946739037
SNP_P4_12235_35310948	NC_021160.1	Ca_kabuli_chr01	35310948	AA	GG	1946739039
SNP_P4_12236_35310991	NC_021160.1	Ca_kabuli_chr01	35310991	AA	GG	1946739041
SNP_P4_12237_35311016	NC_021160.1	Ca_kabuli_chr01	35311016	CC	GG	1946739043
SNP_P4_12238_35311017	NC_021160.1	Ca_kabuli_chr01	35311017	TT	CC	1946739045
SNP_P4_12239_35311039	NC_021160.1	Ca_kabuli_chr01	35311039	CC	TT	1946739047
SNP_P4_12240_35311057	NC_021160.1	Ca_kabuli_chr01	35311057	CC	GG	1946739050
SNP_P4_12241_35311058	NC_021160.1	Ca_kabuli_chr01	35311058	CC	GG	1946739052
SNP_P4_12242_35311085	NC_021160.1	Ca_kabuli_chr01	35311085	TT	CC	1946739054
SNP_P4_12243_35311099	NC_021160.1	Ca_kabuli_chr01	35311099	AA	TT	1946739056
SNP_P4_12244_35311114	NC_021160.1	Ca_kabuli_chr01	35311114	AA	CC	1946739058
SNP_P4_12245_35311127	NC_021160.1	Ca_kabuli_chr01	35311127	CC	TT	1946739060
SNP_P4_12246_35311134	NC_021160.1	Ca_kabuli_chr01	35311134	GG	AA	1946739062
SNP_P4_12247_35311154	NC_021160.1	Ca_kabuli_chr01	35311154	GG	AA	1946739064
SNP_P4_12248_35311195	NC_021160.1	Ca_kabuli_chr01	35311195	GG	AA	1946739066
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SNP_P4_12250_35311271	NC_021160.1	Ca_kabuli_chr01	35311271	CC	TT	1946739070
SNP_P4_12251_35311277	NC_021160.1	Ca_kabuli_chr01	35311277	CC	TT	1946739072
SNP_P4_12252_35311307	NC_021160.1	Ca_kabuli_chr01	35311307	GG	AA	1946739074
SNP_P4_12253_35311621	NC_021160.1	Ca_kabuli_chr01	35311621	AA	GG	1946739076
SNP_P4_12254_35311644	NC_021160.1	Ca_kabuli_chr01	35311644	TT	GG	1946739078
SNP_P4_12255_35311672	NC_021160.1	Ca_kabuli_chr01	35311672	GG	TT	1946739080
SNP_P4_12256_35311681	NC_021160.1	Ca_kabuli_chr01	35311681	GG	AA	1946739082
SNP_P4_12257_35311711	NC_021160.1	Ca_kabuli_chr01	35311711	TT	GG	1946739084
SNP_P4_12258_35311712	NC_021160.1	Ca_kabuli_chr01	35311712	GG	AA	1946739086
SNP_P4_12259_35311715	NC_021160.1	Ca_kabuli_chr01	35311715	CC	TT	1946739088
SNP_P4_12260_35311758	NC_021160.1	Ca_kabuli_chr01	35311758	TT	CC	1946739090
SNP_P4_12261_35311798	NC_021160.1	Ca_kabuli_chr01	35311798	AA	TT	1946739091
SNP_P4_12262_35311833	NC_021160.1	Ca_kabuli_chr01	35311833	CC	TT	1946739093
SNP_P4_12263_35311848	NC_021160.1	Ca_kabuli_chr01	35311848	CC	GG	1946739095

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_12265_35311898	NC_021160.1	Ca_kabuli_chr01	35311898	GG	AA	1946739099
SNP_P4_12266_35311985	NC_021160.1	Ca_kabuli_chr01	35311985	GG	AA	1946739101
SNP_P4_12267_35312012	NC_021160.1	Ca_kabuli_chr01	35312012	TT	CC	1946739103
SNP_P4_12268_35312070	NC_021160.1	Ca_kabuli_chr01	35312070	CC	TT	1946739105
SNP_P4_12269_35312120	NC_021160.1	Ca_kabuli_chr01	35312120	TT	GG	1946739107
SNP_P4_12270_35312121	NC_021160.1	Ca_kabuli_chr01	35312121	AA	GG	1946739109
SNP_P4_12271_35312148	NC_021160.1	Ca_kabuli_chr01	35312148	GG	TT	1946739111
SNP_P4_12272_35312154	NC_021160.1	Ca_kabuli_chr01	35312154	CC	AA	1946739113
SNP_P4_12273_35312309	NC_021160.1	Ca_kabuli_chr01	35312309	CC	AA	1946739115
SNP_P4_12274_35312451	NC_021160.1	Ca_kabuli_chr01	35312451	TT	GG	1946739117
SNP_P4_12275_35316773	NC_021160.1	Ca_kabuli_chr01	35316773	AA	GG	1946739119
SNP_P4_12276_35316802	NC_021160.1	Ca_kabuli_chr01	35316802	GG	AA	1946739121
SNP_P4_12277_35316851	NC_021160.1	Ca_kabuli_chr01	35316851	GG	AA	1946739123
SNP_P4_12278_35316894	NC_021160.1	Ca_kabuli_chr01	35316894	GG	CC	1946739125
SNP_P4_12279_35316899	NC_021160.1	Ca_kabuli_chr01	35316899	TT	CC	1946739127
SNP_P4_12280_35316903	NC_021160.1	Ca_kabuli_chr01	35316903	TT	CC	1946739130
SNP_P4_12281_35316904	NC_021160.1	Ca_kabuli_chr01	35316904	TT	GG	1946739132
SNP_P4_12282_35316905	NC_021160.1	Ca_kabuli_chr01	35316905	GG	CC	1946739134
SNP_P4_12283_35316931	NC_021160.1	Ca_kabuli_chr01	35316931	AA	CC	1946739136
SNP_P4_12284_35316941	NC_021160.1	Ca_kabuli_chr01	35316941	TT	CC	1946739138
SNP_P4_12285_35316969	NC_021160.1	Ca_kabuli_chr01	35316969	TT	GG	1946739140
SNP_P4_12286_35317003	NC_021160.1	Ca_kabuli_chr01	35317003	AA	GG	1946739142
SNP_P4_12287_35317034	NC_021160.1	Ca_kabuli_chr01	35317034	CC	TT	1946739144
SNP_P4_12288_35317036	NC_021160.1	Ca_kabuli_chr01	35317036	AA	GG	1946739146
SNP_P4_12289_35317039	NC_021160.1	Ca_kabuli_chr01	35317039	CC	TT	1946739148
SNP_P4_12290_35317049	NC_021160.1	Ca_kabuli_chr01	35317049	GG	AA	1946739150
SNP_P4_12291_35317066	NC_021160.1	Ca_kabuli_chr01	35317066	TT	CC	1946739152
SNP_P4_12292_35317067	NC_021160.1	Ca_kabuli_chr01	35317067	AA	TT	1946739154
SNP_P4_12293_35317097	NC_021160.1	Ca_kabuli_chr01	35317097	TT	CC	1946739156
SNP_P4_12294_35317134	NC_021160.1	Ca_kabuli_chr01	35317134	TT	CC	1946739158
SNP_P4_12295_35317277	NC_021160.1	Ca_kabuli_chr01	35317277	GG	AA	1946739160
SNP_P4_12297_35317420	NC_021160.1	Ca_kabuli_chr01	35317420	GG	AA	1946739162
SNP_P4_12298_35317424	NC_021160.1	Ca_kabuli_chr01	35317424	TT	CC	1946739164
SNP_P4_12299_35320528	NC_021160.1	Ca_kabuli_chr01	35320528	GG	AA	1946739166
SNP_P4_12300_35320681	NC_021160.1	Ca_kabuli_chr01	35320681	AA	CC	1946739168
SNP_P4_12301_35320695	NC_021160.1	Ca_kabuli_chr01	35320695	AA	GG	1946739170
SNP_P4_12302_35323988	NC_021160.1	Ca_kabuli_chr01	35323988	GG	CC	1946739172
SNP_P4_12303_35326215	NC_021160.1	Ca_kabuli_chr01	35326215	AA	TT	1946739174
SNP_P4_12304_35328036	NC_021160.1	Ca_kabuli_chr01	35328036	GG	TT	1946739176
SNP_P4_12305_35328040	NC_021160.1	Ca_kabuli_chr01	35328040	CC	TT	1946739178
SNP_P4_12306_35329883	NC_021160.1	Ca_kabuli_chr01	35329883	AA	CC	1946739180

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_12307_35330449	NC_021160.1	Ca_kabuli_chr01	35330449	TT	CC	1946739182
SNP_P4_12308_35332905	NC_021160.1	Ca_kabuli_chr01	35332905	CC	GG	1946739184
SNP_P4_12309_35332928	NC_021160.1	Ca_kabuli_chr01	35332928	CC	TT	1946739186
SNP_P4_12310_35333614	NC_021160.1	Ca_kabuli_chr01	35333614	CC	AA	1946739188
SNP_P4_12311_35333718	NC_021160.1	Ca_kabuli_chr01	35333718	TT	AA	1946739190
SNP_P4_12312_35333986	NC_021160.1	Ca_kabuli_chr01	35333986	TT	CC	1946739192
SNP_P4_12314_35336149	NC_021160.1	Ca_kabuli_chr01	35336149	GG	AA	1946739194
SNP_P4_12315_35336470	NC_021160.1	Ca_kabuli_chr01	35336470	CC	TT	1946739197
SNP_P4_12316_35336546	NC_021160.1	Ca_kabuli_chr01	35336546	TT	CC	1946739199
SNP_P4_12317_35337032	NC_021160.1	Ca_kabuli_chr01	35337032	GG	TT	1946739201
SNP_P4_12318_35337042	NC_021160.1	Ca_kabuli_chr01	35337042	AA	GG	1946739203
SNP_P4_12320_35337297	NC_021160.1	Ca_kabuli_chr01	35337297	TT	GG	1946739205
SNP_P4_12321_35341492	NC_021160.1	Ca_kabuli_chr01	35341492	AA	TT	1946739207
SNP_P4_12322_35342976	NC_021160.1	Ca_kabuli_chr01	35342976	GG	AA	1946739209
SNP_P4_12323_35346207	NC_021160.1	Ca_kabuli_chr01	35346207	GG	AA	1946739211
SNP_P4_12324_35346285	NC_021160.1	Ca_kabuli_chr01	35346285	TT	AA	1946739213
SNP_P4_12325_35347464	NC_021160.1	Ca_kabuli_chr01	35347464	TT	GG	1946739215
SNP_P4_12326_35348396	NC_021160.1	Ca_kabuli_chr01	35348396	CC	TT	1946739217
SNP_P4_12327_35348594	NC_021160.1	Ca_kabuli_chr01	35348594	GG	AA	1946739219
SNP_P4_12328_35348674	NC_021160.1	Ca_kabuli_chr01	35348674	CC	GG	1946739221
SNP_P4_12330_35349389	NC_021160.1	Ca_kabuli_chr01	35349389	TT	AA	1946739223
SNP_P4_12331_35349792	NC_021160.1	Ca_kabuli_chr01	35349792	CC	TT	1946739225
SNP_P4_12334_35354678	NC_021160.1	Ca_kabuli_chr01	35354678	TT	GG	1946739227
SNP_P4_12335_35355040	NC_021160.1	Ca_kabuli_chr01	35355040	TT	CC	1946739229
SNP_P4_12336_35355282	NC_021160.1	Ca_kabuli_chr01	35355282	CC	AA	1946739231
SNP_P4_12337_35355287	NC_021160.1	Ca_kabuli_chr01	35355287	GG	TT	1946739233
SNP_P4_12338_35355657	NC_021160.1	Ca_kabuli_chr01	35355657	TT	GG	1946739235
SNP_P4_12339_35356038	NC_021160.1	Ca_kabuli_chr01	35356038	TT	CC	1946739237
SNP_P4_12340_35357692	NC_021160.1	Ca_kabuli_chr01	35357692	AA	GG	1946739239
SNP_P4_12341_35358643	NC_021160.1	Ca_kabuli_chr01	35358643	AA	GG	1946739241
SNP_P4_12342_35358668	NC_021160.1	Ca_kabuli_chr01	35358668	AA	GG	1946739243
SNP_P4_12343_35358913	NC_021160.1	Ca_kabuli_chr01	35358913	GG	AA	1946739245
SNP_P4_12344_35359195	NC_021160.1	Ca_kabuli_chr01	35359195	AA	GG	1946739247
SNP_P4_12345_35359301	NC_021160.1	Ca_kabuli_chr01	35359301	TT	CC	1946739249
SNP_P4_12346_35359340	NC_021160.1	Ca_kabuli_chr01	35359340	GG	AA	1946739251
SNP_P4_12347_35359535	NC_021160.1	Ca_kabuli_chr01	35359535	CC	TT	1946739253
SNP_P4_12348_35359571	NC_021160.1	Ca_kabuli_chr01	35359571	CC	AA	1946739255
SNP_P4_12349_35359691	NC_021160.1	Ca_kabuli_chr01	35359691	GG	TT	1946739257
SNP_P4_12350_35359848	NC_021160.1	Ca_kabuli_chr01	35359848	TT	CC	1946739259
SNP_P4_12351_35359878	NC_021160.1	Ca_kabuli_chr01	35359878	TT	GG	1946739261
SNP_P4_12352_35360256	NC_021160.1	Ca_kabuli_chr01	35360256	GG	AA	1946739263
SNP_P4_12353_35360660	NC_021160.1	Ca_kabuli_chr01	35360660	TT	CC	1946739265

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_12355_35361569	NC_021160.1	Ca_kabuli_chr01	35361569	GG	AA	1946739269
SNP_P4_12356_35361596	NC_021160.1	Ca_kabuli_chr01	35361596	GG	AA	1946739271
SNP_P4_12358_35363091	NC_021160.1	Ca_kabuli_chr01	35363091	CC	TT	1946739273
SNP_P4_12359_35363301	NC_021160.1	Ca_kabuli_chr01	35363301	TT	CC	1946739275
SNP_P4_12360_35363341	NC_021160.1	Ca_kabuli_chr01	35363341	CC	GG	1946739277
SNP_P4_12361_35363405	NC_021160.1	Ca_kabuli_chr01	35363405	CC	TT	1946739279
SNP_P4_12362_35367747	NC_021160.1	Ca_kabuli_chr01	35367747	GG	AA	1946739281
SNP_P4_12363_35371929	NC_021160.1	Ca_kabuli_chr01	35371929	GG	AA	1946739283
SNP_P4_12364_35372327	NC_021160.1	Ca_kabuli_chr01	35372327	AA	GG	1946739285
SNP_P4_12365_35374603	NC_021160.1	Ca_kabuli_chr01	35374603	GG	TT	1946739287
SNP_P4_12366_35374627	NC_021160.1	Ca_kabuli_chr01	35374627	TT	CC	1946739289
SNP_P4_12367_35375737	NC_021160.1	Ca_kabuli_chr01	35375737	GG	AA	1946739291
SNP_P4_12368_35376711	NC_021160.1	Ca_kabuli_chr01	35376711	GG	AA	1946739293
SNP_P4_12369_35376921	NC_021160.1	Ca_kabuli_chr01	35376921	CC	TT	1946739295
SNP_P4_12370_35376923	NC_021160.1	Ca_kabuli_chr01	35376923	CC	GG	1946739297
SNP_P4_12371_35376933	NC_021160.1	Ca_kabuli_chr01	35376933	TT	CC	1946739299
SNP_P4_12373_35378294	NC_021160.1	Ca_kabuli_chr01	35378294	AA	CC	1946739301
SNP_P4_12374_35378697	NC_021160.1	Ca_kabuli_chr01	35378697	TT	AA	1946739303
SNP_P4_12375_35378839	NC_021160.1	Ca_kabuli_chr01	35378839	AA	TT	1946739305
SNP_P4_12376_35380120	NC_021160.1	Ca_kabuli_chr01	35380120	AA	CC	1946739307
SNP_P4_12377_35381761	NC_021160.1	Ca_kabuli_chr01	35381761	AA	GG	1946739309
SNP_P4_12378_35381812	NC_021160.1	Ca_kabuli_chr01	35381812	GG	AA	1946739310
SNP_P4_12379_35382451	NC_021160.1	Ca_kabuli_chr01	35382451	CC	AA	1946739312
SNP_P4_12380_35383202	NC_021160.1	Ca_kabuli_chr01	35383202	CC	AA	1946739314
SNP_P4_12381_35384258	NC_021160.1	Ca_kabuli_chr01	35384258	TT	GG	1946739316
SNP_P4_12382_35398435	NC_021160.1	Ca_kabuli_chr01	35398435	GG	AA	1946739318
SNP_P4_12383_35398500	NC_021160.1	Ca_kabuli_chr01	35398500	CC	TT	1946739320
SNP_P4_12384_35398501	NC_021160.1	Ca_kabuli_chr01	35398501	AA	GG	1946739322
SNP_P4_12385_35398662	NC_021160.1	Ca_kabuli_chr01	35398662	AA	GG	1946739324
SNP_P4_12386_35398748	NC_021160.1	Ca_kabuli_chr01	35398748	AA	GG	1946739326
SNP_P4_12387_35398752	NC_021160.1	Ca_kabuli_chr01	35398752	TT	CC	1946739328
SNP_P4_12388_35403540	NC_021160.1	Ca_kabuli_chr01	35403540	TT	CC	1946739330
SNP_P4_12389_35403933	NC_021160.1	Ca_kabuli_chr01	35403933	GG	AA	1946739332
SNP_P4_12390_35404320	NC_021160.1	Ca_kabuli_chr01	35404320	AA	GG	1946739334
SNP_P4_12391_35404812	NC_021160.1	Ca_kabuli_chr01	35404812	AA	TT	1946739336
SNP_P4_12392_35404862	NC_021160.1	Ca_kabuli_chr01	35404862	GG	AA	1946739338
SNP_P4_12393_35404984	NC_021160.1	Ca_kabuli_chr01	35404984	AA	CC	1946739339
SNP_P4_12394_35404985	NC_021160.1	Ca_kabuli_chr01	35404985	AA	GG	1946739341
SNP_P4_12395_35405143	NC_021160.1	Ca_kabuli_chr01	35405143	AA	CC	1946739343
SNP_P4_12396_35405225	NC_021160.1	Ca_kabuli_chr01	35405225	TT	CC	1946739345
SNP_P4_12397_35405226	NC_021160.1	Ca_kabuli_chr01	35405226	AA	TT	1946739348

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_12399_35405273	NC_021160.1	Ca_kabuli_chr01	35405273	AA	GG	1946739352
SNP_P4_12400_35405288	NC_021160.1	Ca_kabuli_chr01	35405288	TT	AA	1946739354
SNP_P4_12401_35405290	NC_021160.1	Ca_kabuli_chr01	35405290	TT	CC	1946739356
SNP_P4_12402_35405291	NC_021160.1	Ca_kabuli_chr01	35405291	TT	CC	1946739358
SNP_P4_12403_35405320	NC_021160.1	Ca_kabuli_chr01	35405320	GG	AA	1946739360
SNP_P4_12404_35405422	NC_021160.1	Ca_kabuli_chr01	35405422	AA	GG	1946739362
SNP_P4_12405_35405446	NC_021160.1	Ca_kabuli_chr01	35405446	AA	TT	1946739364
SNP_P4_12406_35405583	NC_021160.1	Ca_kabuli_chr01	35405583	CC	TT	1946739366
SNP_P4_12407_35422001	NC_021160.1	Ca_kabuli_chr01	35422001	AA	GG	1946739368
SNP_P4_12409_35425642	NC_021160.1	Ca_kabuli_chr01	35425642	CC	GG	1946739370
SNP_P4_12410_35428952	NC_021160.1	Ca_kabuli_chr01	35428952	TT	CC	1946739372
SNP_P4_12411_35429085	NC_021160.1	Ca_kabuli_chr01	35429085	GG	AA	1946739374
SNP_P4_12413_35432936	NC_021160.1	Ca_kabuli_chr01	35432936	CC	TT	1946739376
SNP_P4_12414_35432965	NC_021160.1	Ca_kabuli_chr01	35432965	GG	AA	1946739378
SNP_P4_12415_35432996	NC_021160.1	Ca_kabuli_chr01	35432996	TT	CC	1946739380
SNP_P4_12416_35433001	NC_021160.1	Ca_kabuli_chr01	35433001	TT	CC	1946739382
SNP_P4_12417_35433014	NC_021160.1	Ca_kabuli_chr01	35433014	CC	TT	1946739384
SNP_P4_12418_35433015	NC_021160.1	Ca_kabuli_chr01	35433015	AA	GG	1946739386
SNP_P4_12419_35433189	NC_021160.1	Ca_kabuli_chr01	35433189	TT	CC	1946739388
SNP_P4_12420_35433374	NC_021160.1	Ca_kabuli_chr01	35433374	GG	AA	1946739390
SNP_P4_12421_35435453	NC_021160.1	Ca_kabuli_chr01	35435453	CC	TT	1946739392
SNP_P4_12422_35436542	NC_021160.1	Ca_kabuli_chr01	35436542	AA	GG	1946739394
SNP_P4_12423_35436897	NC_021160.1	Ca_kabuli_chr01	35436897	AA	CC	1946739396
SNP_P4_12425_35449566	NC_021160.1	Ca_kabuli_chr01	35449566	AA	GG	1946739398
SNP_P4_12426_35450226	NC_021160.1	Ca_kabuli_chr01	35450226	TT	CC	1946739400
SNP_P4_12427_35450290	NC_021160.1	Ca_kabuli_chr01	35450290	TT	CC	1946739402
SNP_P4_12428_35454396	NC_021160.1	Ca_kabuli_chr01	35454396	TT	CC	1946739404
SNP_P4_12429_35454397	NC_021160.1	Ca_kabuli_chr01	35454397	TT	AA	1946739406
SNP_P4_12430_35471837	NC_021160.1	Ca_kabuli_chr01	35471837	CC	TT	1946739408
SNP_P4_12431_35475880	NC_021160.1	Ca_kabuli_chr01	35475880	TT	AA	1946739410
SNP_P4_12432_35479916	NC_021160.1	Ca_kabuli_chr01	35479916	CC	TT	1946739412
SNP_P4_12433_35480090	NC_021160.1	Ca_kabuli_chr01	35480090	AA	GG	1946739414
SNP_P4_12434_35480145	NC_021160.1	Ca_kabuli_chr01	35480145	CC	TT	1946739416
SNP_P4_12435_35480410	NC_021160.1	Ca_kabuli_chr01	35480410	TT	GG	1946739418
SNP_P4_12436_35480649	NC_021160.1	Ca_kabuli_chr01	35480649	CC	AA	1946739420
SNP_P4_12437_35480737	NC_021160.1	Ca_kabuli_chr01	35480737	TT	CC	1946739422
SNP_P4_12438_35481898	NC_021160.1	Ca_kabuli_chr01	35481898	CC	TT	1946739424
SNP_P4_12439_35482240	NC_021160.1	Ca_kabuli_chr01	35482240	CC	TT	1946739426
SNP_P4_12440_35482465	NC_021160.1	Ca_kabuli_chr01	35482465	AA	TT	1946739427
SNP_P4_12441_35489034	NC_021160.1	Ca_kabuli_chr01	35489034	AA	CC	1946739429
SNP_P4_12442_35489041	NC_021160.1	Ca_kabuli_chr01	35489041	AA	CC	1946739431

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_12444_35489060	NC_021160.1	Ca_kabuli_chr01	35489060	TT	AA	1946739435
SNP_P4_12445_35492932	NC_021160.1	Ca_kabuli_chr01	35492932	GG	AA	1946739437
SNP_P4_12446_35496086	NC_021160.1	Ca_kabuli_chr01	35496086	AA	GG	1946739439
SNP_P4_12448_35496869	NC_021160.1	Ca_kabuli_chr01	35496869	TT	CC	1946739441
SNP_P4_12450_35502214	NC_021160.1	Ca_kabuli_chr01	35502214	GG	AA	1946739443
SNP_P4_12451_35502868	NC_021160.1	Ca_kabuli_chr01	35502868	GG	AA	1946739445
SNP_P4_12453_35508325	NC_021160.1	Ca_kabuli_chr01	35508325	AA	GG	1946739447
SNP_P4_12454_35508716	NC_021160.1	Ca_kabuli_chr01	35508716	AA	GG	1946739449
SNP_P4_12455_35537224	NC_021160.1	Ca_kabuli_chr01	35537224	AA	CC	1946739450
SNP_P4_12456_35537225	NC_021160.1	Ca_kabuli_chr01	35537225	CC	TT	1946739452
SNP_P4_12457_35537226	NC_021160.1	Ca_kabuli_chr01	35537226	TT	AA	1946739454
SNP_P4_12458_35537239	NC_021160.1	Ca_kabuli_chr01	35537239	CC	TT	1946739456
SNP_P4_12459_35537254	NC_021160.1	Ca_kabuli_chr01	35537254	CC	AA	1946739458
SNP_P4_12461_35537359	NC_021160.1	Ca_kabuli_chr01	35537359	AA	CC	1946739460
SNP_P4_12462_35537386	NC_021160.1	Ca_kabuli_chr01	35537386	GG	AA	1946739462
SNP_P4_12463_35537601	NC_021160.1	Ca_kabuli_chr01	35537601	GG	AA	1946739464
SNP_P4_12464_35538197	NC_021160.1	Ca_kabuli_chr01	35538197	CC	TT	1946739466
SNP_P4_12466_35540742	NC_021160.1	Ca_kabuli_chr01	35540742	TT	GG	1946739468
SNP_P4_12467_35546005	NC_021160.1	Ca_kabuli_chr01	35546005	TT	GG	1946739470
SNP_P4_12471_35560843	NC_021160.1	Ca_kabuli_chr01	35560843	TT	AA	1946739472
SNP_P4_12472_35560887	NC_021160.1	Ca_kabuli_chr01	35560887	AA	GG	1946739474
SNP_P4_12473_35560889	NC_021160.1	Ca_kabuli_chr01	35560889	AA	GG	1946739476
SNP_P4_12475_35564642	NC_021160.1	Ca_kabuli_chr01	35564642	TT	GG	1946739478
SNP_P4_12476_35564663	NC_021160.1	Ca_kabuli_chr01	35564663	AA	TT	1946739480
SNP_P4_12477_35564782	NC_021160.1	Ca_kabuli_chr01	35564782	TT	GG	1946739482
SNP_P4_12478_35564963	NC_021160.1	Ca_kabuli_chr01	35564963	AA	GG	1946739484
SNP_P4_12480_35565066	NC_021160.1	Ca_kabuli_chr01	35565066	GG	AA	1946739486
SNP_P4_12481_35565117	NC_021160.1	Ca_kabuli_chr01	35565117	AA	TT	1946739488
SNP_P4_12482_35565481	NC_021160.1	Ca_kabuli_chr01	35565481	AA	CC	1946739490
SNP_P4_12483_35569088	NC_021160.1	Ca_kabuli_chr01	35569088	AA	GG	1946739492
SNP_P4_12485_35574174	NC_021160.1	Ca_kabuli_chr01	35574174	GG	AA	1946739494
SNP_P4_12486_35574598	NC_021160.1	Ca_kabuli_chr01	35574598	GG	AA	1946739496
SNP_P4_12487_35574787	NC_021160.1	Ca_kabuli_chr01	35574787	TT	AA	1946739498
SNP_P4_12488_35576651	NC_021160.1	Ca_kabuli_chr01	35576651	TT	AA	1946739500
SNP_P4_12489_35578238	NC_021160.1	Ca_kabuli_chr01	35578238	TT	AA	1946739502
SNP_P4_12490_35579494	NC_021160.1	Ca_kabuli_chr01	35579494	CC	AA	1946739504
SNP_P4_12491_35580402	NC_021160.1	Ca_kabuli_chr01	35580402	AA	TT	1946739506
SNP_P4_12492_35580614	NC_021160.1	Ca_kabuli_chr01	35580614	AA	CC	1946739508
SNP_P4_12493_35582221	NC_021160.1	Ca_kabuli_chr01	35582221	GG	AA	1946739510
SNP_P4_12494_35585951	NC_021160.1	Ca_kabuli_chr01	35585951	AA	GG	1946739512
SNP_P4_12495_35598938	NC_021160.1	Ca_kabuli_chr01	35598938	AA	TT	1946739514

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_12497_35599301	NC_021160.1	Ca_kabuli_chr01	35599301	GG	AA	1946739518
SNP_P4_12498_35599365	NC_021160.1	Ca_kabuli_chr01	35599365	TT	AA	1946739520
SNP_P4_12499_35599440	NC_021160.1	Ca_kabuli_chr01	35599440	GG	AA	1946739522
SNP_P4_12500_35599723	NC_021160.1	Ca_kabuli_chr01	35599723	AA	CC	1946739524
SNP_P4_12501_35600276	NC_021160.1	Ca_kabuli_chr01	35600276	TT	CC	1946739526
SNP_P4_12502_35603548	NC_021160.1	Ca_kabuli_chr01	35603548	TT	AA	1946739528
SNP_P4_12503_35603597	NC_021160.1	Ca_kabuli_chr01	35603597	AA	GG	1946739530
SNP_P4_12504_35604086	NC_021160.1	Ca_kabuli_chr01	35604086	AA	CC	1946739532
SNP_P4_12505_35605598	NC_021160.1	Ca_kabuli_chr01	35605598	CC	TT	1946739534
SNP_P4_12506_35605838	NC_021160.1	Ca_kabuli_chr01	35605838	TT	CC	1946739536
SNP_P4_12507_35605840	NC_021160.1	Ca_kabuli_chr01	35605840	GG	AA	1946739538
SNP_P4_12508_35606185	NC_021160.1	Ca_kabuli_chr01	35606185	CC	AA	1946739540
SNP_P4_12510_35613739	NC_021160.1	Ca_kabuli_chr01	35613739	CC	TT	1946739541
SNP_P4_12511_35613740	NC_021160.1	Ca_kabuli_chr01	35613740	TT	GG	1946739543
SNP_P4_12512_35613888	NC_021160.1	Ca_kabuli_chr01	35613888	CC	TT	1946739545
SNP_P4_12513_35613978	NC_021160.1	Ca_kabuli_chr01	35613978	GG	AA	1946739547
SNP_P4_12514_35614055	NC_021160.1	Ca_kabuli_chr01	35614055	GG	AA	1946739549
SNP_P4_12515_35614124	NC_021160.1	Ca_kabuli_chr01	35614124	TT	AA	1946739551
SNP_P4_12516_35614152	NC_021160.1	Ca_kabuli_chr01	35614152	TT	CC	1946739553
SNP_P4_12517_35614164	NC_021160.1	Ca_kabuli_chr01	35614164	AA	GG	1946739555
SNP_P4_12518_35614173	NC_021160.1	Ca_kabuli_chr01	35614173	CC	TT	1946739557
SNP_P4_12519_35614187	NC_021160.1	Ca_kabuli_chr01	35614187	CC	TT	1946739559
SNP_P4_12520_35621987	NC_021160.1	Ca_kabuli_chr01	35621987	CC	AA	1946739561
SNP_P4_12521_35622006	NC_021160.1	Ca_kabuli_chr01	35622006	GG	AA	1946739563
SNP_P4_12523_35624413	NC_021160.1	Ca_kabuli_chr01	35624413	AA	GG	1946739565
SNP_P4_12524_35635848	NC_021160.1	Ca_kabuli_chr01	35635848	GG	AA	1946739567
SNP_P4_12525_35637131	NC_021160.1	Ca_kabuli_chr01	35637131	TT	GG	1946739569
SNP_P4_12526_35637212	NC_021160.1	Ca_kabuli_chr01	35637212	GG	AA	1946739571
SNP_P4_12527_35637222	NC_021160.1	Ca_kabuli_chr01	35637222	AA	CC	1946739573
SNP_P4_12528_35637224	NC_021160.1	Ca_kabuli_chr01	35637224	AA	GG	1946739575
SNP_P4_12529_35642285	NC_021160.1	Ca_kabuli_chr01	35642285	GG	AA	1946739577
SNP_P4_12530_35648554	NC_021160.1	Ca_kabuli_chr01	35648554	TT	CC	1946739579
SNP_P4_12531_35649975	NC_021160.1	Ca_kabuli_chr01	35649975	GG	AA	1946739581
SNP_P4_12532_35656443	NC_021160.1	Ca_kabuli_chr01	35656443	GG	AA	1946739583
SNP_P4_12533_35659037	NC_021160.1	Ca_kabuli_chr01	35659037	TT	AA	1946739585
SNP_P4_12534_35659434	NC_021160.1	Ca_kabuli_chr01	35659434	TT	CC	1946739587
SNP_P4_12535_35660402	NC_021160.1	Ca_kabuli_chr01	35660402	GG	AA	1946739589
SNP_P4_12536_35660451	NC_021160.1	Ca_kabuli_chr01	35660451	GG	TT	1946739591
SNP_P4_12537_35663117	NC_021160.1	Ca_kabuli_chr01	35663117	GG	CC	1946739593
SNP_P4_12539_35681586	NC_021160.1	Ca_kabuli_chr01	35681586	GG	CC	1946739595
SNP_P4_12540_35687072	NC_021160.1	Ca_kabuli_chr01	35687072	AA	CC	1946739597

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_12542_35689276	NC_021160.1	Ca_kabuli_chr01	35689276	AA	CC	1946739601
SNP_P4_12543_35689730	NC_021160.1	Ca_kabuli_chr01	35689730	TT	CC	1946739603
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SNP_P4_12545_35690095	NC_021160.1	Ca_kabuli_chr01	35690095	GG	AA	1946739607
SNP_P4_12546_35692924	NC_021160.1	Ca_kabuli_chr01	35692924	GG	AA	1946739609
SNP_P4_12547_35711878	NC_021160.1	Ca_kabuli_chr01	35711878	TT	GG	1946739611
SNP_P4_12548_35713952	NC_021160.1	Ca_kabuli_chr01	35713952	TT	CC	1946739613
SNP_P4_12549_35714038	NC_021160.1	Ca_kabuli_chr01	35714038	TT	CC	1946739615
SNP_P4_12550_35714180	NC_021160.1	Ca_kabuli_chr01	35714180	TT	CC	1946739617
SNP_P4_12551_35714673	NC_021160.1	Ca_kabuli_chr01	35714673	AA	GG	1946739620
SNP_P4_12552_35715118	NC_021160.1	Ca_kabuli_chr01	35715118	TT	CC	1946739622
SNP_P4_12553_35715120	NC_021160.1	Ca_kabuli_chr01	35715120	AA	GG	1946739624
SNP_P4_12554_35717750	NC_021160.1	Ca_kabuli_chr01	35717750	TT	GG	1946739626
SNP_P4_12555_35724749	NC_021160.1	Ca_kabuli_chr01	35724749	CC	TT	1946739628
SNP_P4_12556_35724974	NC_021160.1	Ca_kabuli_chr01	35724974	AA	GG	1946739630
SNP_P4_12557_35724986	NC_021160.1	Ca_kabuli_chr01	35724986	TT	CC	1946739632
SNP_P4_12558_35724988	NC_021160.1	Ca_kabuli_chr01	35724988	TT	CC	1946739634
SNP_P4_12559_35725037	NC_021160.1	Ca_kabuli_chr01	35725037	GG	AA	1946739636
SNP_P4_12560_35725378	NC_021160.1	Ca_kabuli_chr01	35725378	TT	CC	1946739638
SNP_P4_12561_35727503	NC_021160.1	Ca_kabuli_chr01	35727503	TT	GG	1946739640
SNP_P4_12562_35737705	NC_021160.1	Ca_kabuli_chr01	35737705	TT	CC	1946739641
SNP_P4_12563_35741771	NC_021160.1	Ca_kabuli_chr01	35741771	TT	CC	1946739644
SNP_P4_12564_35744228	NC_021160.1	Ca_kabuli_chr01	35744228	TT	GG	1946739646
SNP_P4_12565_35747792	NC_021160.1	Ca_kabuli_chr01	35747792	GG	AA	1946739648
SNP_P4_12566_35749137	NC_021160.1	Ca_kabuli_chr01	35749137	GG	AA	1946739649
SNP_P4_12567_35759020	NC_021160.1	Ca_kabuli_chr01	35759020	AA	TT	1946739651
SNP_P4_12569_35771836	NC_021160.1	Ca_kabuli_chr01	35771836	TT	GG	1946739653
SNP_P4_12570_35775735	NC_021160.1	Ca_kabuli_chr01	35775735	TT	AA	1946739655
SNP_P4_12571_35784356	NC_021160.1	Ca_kabuli_chr01	35784356	TT	CC	1946739657
SNP_P4_12572_35784526	NC_021160.1	Ca_kabuli_chr01	35784526	CC	AA	1946739659
SNP_P4_12573_35784559	NC_021160.1	Ca_kabuli_chr01	35784559	AA	GG	1946739661
SNP_P4_12574_35784710	NC_021160.1	Ca_kabuli_chr01	35784710	GG	TT	1946739663
SNP_P4_12575_35787027	NC_021160.1	Ca_kabuli_chr01	35787027	CC	AA	1946739665
SNP_P4_12576_35788029	NC_021160.1	Ca_kabuli_chr01	35788029	TT	GG	1946739667
SNP_P4_12577_35788472	NC_021160.1	Ca_kabuli_chr01	35788472	TT	GG	1946739669
SNP_P4_12578_35788485	NC_021160.1	Ca_kabuli_chr01	35788485	CC	TT	1946739671
SNP_P4_12579_35788565	NC_021160.1	Ca_kabuli_chr01	35788565	AA	GG	1946739673
SNP_P4_12580_35791669	NC_021160.1	Ca_kabuli_chr01	35791669	CC	TT	1946739675
SNP_P4_12581_35791695	NC_021160.1	Ca_kabuli_chr01	35791695	GG	AA	1946739677
SNP_P4_12582_35791928	NC_021160.1	Ca_kabuli_chr01	35791928	CC	AA	1946739679
SNP_P4_12583_35796599	NC_021160.1	Ca_kabuli_chr01	35796599	GG	CC	1946739681

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_12586_35801514	NC_021160.1	Ca_kabuli_chr01	35801514	TT	CC	1946739685
SNP_P4_12587_35801567	NC_021160.1	Ca_kabuli_chr01	35801567	GG	AA	1946739687
SNP_P4_12588_35817112	NC_021160.1	Ca_kabuli_chr01	35817112	AA	TT	1946739689
SNP_P4_12589_35817497	NC_021160.1	Ca_kabuli_chr01	35817497	AA	GG	1946739691
SNP_P4_12590_35818198	NC_021160.1	Ca_kabuli_chr01	35818198	TT	GG	1946739693
SNP_P4_12591_35818212	NC_021160.1	Ca_kabuli_chr01	35818212	TT	GG	1946739695
SNP_P4_12592_35818426	NC_021160.1	Ca_kabuli_chr01	35818426	CC	TT	1946739697
SNP_P4_12593_35822668	NC_021160.1	Ca_kabuli_chr01	35822668	AA	GG	1946739699
SNP_P4_12594_35822673	NC_021160.1	Ca_kabuli_chr01	35822673	TT	CC	1946739701
SNP_P4_12595_35827511	NC_021160.1	Ca_kabuli_chr01	35827511	CC	TT	1946739703
SNP_P4_12596_35829164	NC_021160.1	Ca_kabuli_chr01	35829164	AA	GG	1946739705
SNP_P4_12597_35829227	NC_021160.1	Ca_kabuli_chr01	35829227	CC	TT	1946739707
SNP_P4_12598_35829509	NC_021160.1	Ca_kabuli_chr01	35829509	CC	TT	1946739708
SNP_P4_12600_35842140	NC_021160.1	Ca_kabuli_chr01	35842140	AA	TT	1946739710
SNP_P4_12602_35842541	NC_021160.1	Ca_kabuli_chr01	35842541	GG	CC	1946739712
SNP_P4_12603_35844276	NC_021160.1	Ca_kabuli_chr01	35844276	CC	TT	1946739714
SNP_P4_12604_35846900	NC_021160.1	Ca_kabuli_chr01	35846900	CC	TT	1946739716
SNP_P4_12605_35856225	NC_021160.1	Ca_kabuli_chr01	35856225	CC	AA	1946739718
SNP_P4_12606_35856231	NC_021160.1	Ca_kabuli_chr01	35856231	GG	AA	1946739720
SNP_P4_12607_35856259	NC_021160.1	Ca_kabuli_chr01	35856259	GG	AA	1946739722
SNP_P4_12608_35856328	NC_021160.1	Ca_kabuli_chr01	35856328	TT	CC	1946739724
SNP_P4_12609_35856355	NC_021160.1	Ca_kabuli_chr01	35856355	GG	AA	1946739726
SNP_P4_12610_35856373	NC_021160.1	Ca_kabuli_chr01	35856373	TT	AA	1946739728
SNP_P4_12611_35856424	NC_021160.1	Ca_kabuli_chr01	35856424	GG	CC	1946739730
SNP_P4_12612_35856427	NC_021160.1	Ca_kabuli_chr01	35856427	GG	AA	1946739732
SNP_P4_12613_35856439	NC_021160.1	Ca_kabuli_chr01	35856439	GG	AA	1946739734
SNP_P4_12614_35856635	NC_021160.1	Ca_kabuli_chr01	35856635	GG	CC	1946739736
SNP_P4_12615_35856774	NC_021160.1	Ca_kabuli_chr01	35856774	GG	AA	1946739738
SNP_P4_12616_35856779	NC_021160.1	Ca_kabuli_chr01	35856779	CC	TT	1946739740
SNP_P4_12617_35856830	NC_021160.1	Ca_kabuli_chr01	35856830	GG	AA	1946739742
SNP_P4_12618_35856837	NC_021160.1	Ca_kabuli_chr01	35856837	GG	AA	1946739744
SNP_P4_12619_35857696	NC_021160.1	Ca_kabuli_chr01	35857696	TT	CC	1946739746
SNP_P4_12620_35857954	NC_021160.1	Ca_kabuli_chr01	35857954	AA	TT	1946739749
SNP_P4_12621_35859349	NC_021160.1	Ca_kabuli_chr01	35859349	AA	TT	1946739751
SNP_P4_12622_35862577	NC_021160.1	Ca_kabuli_chr01	35862577	GG	CC	1946739753
SNP_P4_12623_35862692	NC_021160.1	Ca_kabuli_chr01	35862692	CC	TT	1946739755
SNP_P4_12624_35865513	NC_021160.1	Ca_kabuli_chr01	35865513	AA	TT	1946739757
SNP_P4_12625_35865653	NC_021160.1	Ca_kabuli_chr01	35865653	AA	TT	1946739759
SNP_P4_12626_35865792	NC_021160.1	Ca_kabuli_chr01	35865792	AA	CC	1946739761
SNP_P4_12627_35865865	NC_021160.1	Ca_kabuli_chr01	35865865	TT	AA	1946739763
SNP_P4_12628_35865971	NC_021160.1	Ca_kabuli_chr01	35865971	TT	CC	1946739765

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_12630_35867831	NC_021160.1	Ca_kabuli_chr01	35867831	CC	AA	1946739770
SNP_P4_12631_35870367	NC_021160.1	Ca_kabuli_chr01	35870367	CC	TT	1946739771
SNP_P4_12632_35876071	NC_021160.1	Ca_kabuli_chr01	35876071	GG	CC	1946739773
SNP_P4_12633_35884133	NC_021160.1	Ca_kabuli_chr01	35884133	AA	GG	1946739775
SNP_P4_12634_35889331	NC_021160.1	Ca_kabuli_chr01	35889331	TT	AA	1946739777
SNP_P4_12636_35901384	NC_021160.1	Ca_kabuli_chr01	35901384	GG	AA	1946739780
SNP_P4_12637_35904622	NC_021160.1	Ca_kabuli_chr01	35904622	TT	CC	1946739782
SNP_P4_12638_35907431	NC_021160.1	Ca_kabuli_chr01	35907431	AA	GG	1946739784
SNP_P4_12639_35907669	NC_021160.1	Ca_kabuli_chr01	35907669	CC	TT	1946739786
SNP_P4_12640_35908939	NC_021160.1	Ca_kabuli_chr01	35908939	TT	CC	1946739788
SNP_P4_12641_35912060	NC_021160.1	Ca_kabuli_chr01	35912060	AA	GG	1946739790
SNP_P4_12642_35922534	NC_021160.1	Ca_kabuli_chr01	35922534	TT	CC	1946739792
SNP_P4_12643_35923274	NC_021160.1	Ca_kabuli_chr01	35923274	TT	CC	1946739794
SNP_P4_12644_35924480	NC_021160.1	Ca_kabuli_chr01	35924480	CC	TT	1946739796
SNP_P4_12645_35925758	NC_021160.1	Ca_kabuli_chr01	35925758	TT	CC	1946739798
SNP_P4_12646_35930031	NC_021160.1	Ca_kabuli_chr01	35930031	CC	TT	1946739800
SNP_P4_12647_35930314	NC_021160.1	Ca_kabuli_chr01	35930314	GG	CC	1946739802
SNP_P4_12648_35946059	NC_021160.1	Ca_kabuli_chr01	35946059	AA	GG	1946739804
SNP_P4_12649_35946076	NC_021160.1	Ca_kabuli_chr01	35946076	AA	TT	1946739806
SNP_P4_12650_35946082	NC_021160.1	Ca_kabuli_chr01	35946082	CC	GG	1946739808
SNP_P4_12652_35946836	NC_021160.1	Ca_kabuli_chr01	35946836	TT	CC	1946739810
SNP_P4_12653_35946837	NC_021160.1	Ca_kabuli_chr01	35946837	GG	AA	1946739812
SNP_P4_12655_35946876	NC_021160.1	Ca_kabuli_chr01	35946876	CC	GG	1946739814
SNP_P4_12656_35946918	NC_021160.1	Ca_kabuli_chr01	35946918	TT	CC	1946739816
SNP_P4_12657_35946951	NC_021160.1	Ca_kabuli_chr01	35946951	AA	GG	1946739818
SNP_P4_12658_35946984	NC_021160.1	Ca_kabuli_chr01	35946984	AA	GG	1946739820
SNP_P4_12659_35947016	NC_021160.1	Ca_kabuli_chr01	35947016	AA	GG	1946739822
SNP_P4_12661_35947059	NC_021160.1	Ca_kabuli_chr01	35947059	TT	GG	1946739824
SNP_P4_12662_35947087	NC_021160.1	Ca_kabuli_chr01	35947087	AA	GG	1946739826
SNP_P4_12663_35947252	NC_021160.1	Ca_kabuli_chr01	35947252	GG	AA	1946739827
SNP_P4_12664_35947330	NC_021160.1	Ca_kabuli_chr01	35947330	GG	AA	1946739829
SNP_P4_12665_35947341	NC_021160.1	Ca_kabuli_chr01	35947341	AA	TT	1946739831
SNP_P4_12666_35948367	NC_021160.1	Ca_kabuli_chr01	35948367	TT	CC	1946739833
SNP_P4_12667_35959170	NC_021160.1	Ca_kabuli_chr01	35959170	AA	CC	1946739835
SNP_P4_12668_35959172	NC_021160.1	Ca_kabuli_chr01	35959172	CC	AA	1946739837
SNP_P4_12669_35959215	NC_021160.1	Ca_kabuli_chr01	35959215	TT	CC	1946739839
SNP_P4_12670_35973159	NC_021160.1	Ca_kabuli_chr01	35973159	AA	CC	1946739841
SNP_P4_12673_35977337	NC_021160.1	Ca_kabuli_chr01	35977337	AA	GG	1946739843
SNP_P4_12674_35977371	NC_021160.1	Ca_kabuli_chr01	35977371	CC	TT	1946739845
SNP_P4_12675_35977378	NC_021160.1	Ca_kabuli_chr01	35977378	TT	GG	1946739847
SNP_P4_12676_35977408	NC_021160.1	Ca_kabuli_chr01	35977408	AA	GG	1946739849

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_12678_35977728	NC_021160.1	Ca_kabuli_chr01	35977728	TT	CC	1946739853
SNP_P4_12679_35978236	NC_021160.1	Ca_kabuli_chr01	35978236	GG	TT	1946739855
SNP_P4_12680_35994148	NC_021160.1	Ca_kabuli_chr01	35994148	AA	GG	1946739857
SNP_P4_12681_36005477	NC_021160.1	Ca_kabuli_chr01	36005477	TT	CC	1946739859
SNP_P4_12682_36010330	NC_021160.1	Ca_kabuli_chr01	36010330	CC	TT	1946739861
SNP_P4_12683_36012893	NC_021160.1	Ca_kabuli_chr01	36012893	GG	AA	1946739863
SNP_P4_12684_36012896	NC_021160.1	Ca_kabuli_chr01	36012896	TT	AA	1946739865
SNP_P4_12685_36012931	NC_021160.1	Ca_kabuli_chr01	36012931	AA	GG	1946739869
SNP_P4_12686_36012953	NC_021160.1	Ca_kabuli_chr01	36012953	AA	CC	1946739871
SNP_P4_12687_36012956	NC_021160.1	Ca_kabuli_chr01	36012956	TT	AA	1946739873
SNP_P4_12688_36012968	NC_021160.1	Ca_kabuli_chr01	36012968	TT	CC	1946739875
SNP_P4_12689_36012971	NC_021160.1	Ca_kabuli_chr01	36012971	GG	AA	1946739877
SNP_P4_12690_36012983	NC_021160.1	Ca_kabuli_chr01	36012983	TT	CC	1946739879
SNP_P4_12691_36012985	NC_021160.1	Ca_kabuli_chr01	36012985	AA	GG	1946739881
SNP_P4_12692_36012995	NC_021160.1	Ca_kabuli_chr01	36012995	AA	GG	1946739883
SNP_P4_12693_36012998	NC_021160.1	Ca_kabuli_chr01	36012998	CC	TT	1946739885
SNP_P4_12694_36013001	NC_021160.1	Ca_kabuli_chr01	36013001	AA	CC	1946739887
SNP_P4_12695_36013071	NC_021160.1	Ca_kabuli_chr01	36013071	GG	TT	1946739889
SNP_P4_12696_36013119	NC_021160.1	Ca_kabuli_chr01	36013119	TT	CC	1946739891
SNP_P4_12697_36013254	NC_021160.1	Ca_kabuli_chr01	36013254	GG	AA	1946739893
SNP_P4_12698_36013263	NC_021160.1	Ca_kabuli_chr01	36013263	TT	CC	1946739895
SNP_P4_12699_36013344	NC_021160.1	Ca_kabuli_chr01	36013344	CC	TT	1946739897
SNP_P4_12700_36013359	NC_021160.1	Ca_kabuli_chr01	36013359	TT	AA	1946739899
SNP_P4_12701_36013365	NC_021160.1	Ca_kabuli_chr01	36013365	AA	CC	1946739901
SNP_P4_12702_36013368	NC_021160.1	Ca_kabuli_chr01	36013368	TT	CC	1946739903
SNP_P4_12705_36059786	NC_021160.1	Ca_kabuli_chr01	36059786	AA	TT	1946739905
SNP_P4_12707_36063221	NC_021160.1	Ca_kabuli_chr01	36063221	CC	AA	1946739907
SNP_P4_12708_36081439	NC_021160.1	Ca_kabuli_chr01	36081439	CC	TT	1946739909
SNP_P4_12709_36081441	NC_021160.1	Ca_kabuli_chr01	36081441	AA	GG	1946739911
SNP_P4_12710_36081454	NC_021160.1	Ca_kabuli_chr01	36081454	CC	TT	1946739913
SNP_P4_12711_36081457	NC_021160.1	Ca_kabuli_chr01	36081457	AA	GG	1946739914
SNP_P4_12712_36081496	NC_021160.1	Ca_kabuli_chr01	36081496	AA	GG	1946739916
SNP_P4_12713_36081559	NC_021160.1	Ca_kabuli_chr01	36081559	AA	TT	1946739918
SNP_P4_12714_36081590	NC_021160.1	Ca_kabuli_chr01	36081590	CC	TT	1946739920
SNP_P4_12715_36081821	NC_021160.1	Ca_kabuli_chr01	36081821	TT	CC	1946739922
SNP_P4_12716_36081835	NC_021160.1	Ca_kabuli_chr01	36081835	AA	TT	1946739924
SNP_P4_12717_36081839	NC_021160.1	Ca_kabuli_chr01	36081839	TT	CC	1946739926
SNP_P4_12718_36081840	NC_021160.1	Ca_kabuli_chr01	36081840	CC	AA	1946739928
SNP_P4_12719_36081851	NC_021160.1	Ca_kabuli_chr01	36081851	TT	CC	1946739930
SNP_P4_12720_36081953	NC_021160.1	Ca_kabuli_chr01	36081953	AA	GG	1946739932
SNP_P4_12721_36081979	NC_021160.1	Ca_kabuli_chr01	36081979	CC	TT	1946739934

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_12723_36082048	NC_021160.1	Ca_kabuli_chr01	36082048	TT	GG	1946739938
SNP_P4_12724_36087678	NC_021160.1	Ca_kabuli_chr01	36087678	GG	AA	1946739940
SNP_P4_12725_36087867	NC_021160.1	Ca_kabuli_chr01	36087867	CC	TT	1946739942
SNP_P4_12728_36154194	NC_021160.1	Ca_kabuli_chr01	36154194	TT	CC	1946739944
SNP_P4_12729_36154197	NC_021160.1	Ca_kabuli_chr01	36154197	CC	TT	1946739946
SNP_P4_12730_36154208	NC_021160.1	Ca_kabuli_chr01	36154208	TT	AA	1946739948
SNP_P4_12732_36172019	NC_021160.1	Ca_kabuli_chr01	36172019	GG	TT	1946739950
SNP_P4_12733_36203941	NC_021160.1	Ca_kabuli_chr01	36203941	GG	AA	1946739952
SNP_P4_12734_36243614	NC_021160.1	Ca_kabuli_chr01	36243614	TT	CC	1946739954
SNP_P4_12735_36243615	NC_021160.1	Ca_kabuli_chr01	36243615	CC	TT	1946739956
SNP_P4_12736_36243846	NC_021160.1	Ca_kabuli_chr01	36243846	CC	GG	1946739958
SNP_P4_12737_36249351	NC_021160.1	Ca_kabuli_chr01	36249351	AA	CC	1946739959
SNP_P4_12738_36249358	NC_021160.1	Ca_kabuli_chr01	36249358	CC	AA	1946739961
SNP_P4_12740_36268874	NC_021160.1	Ca_kabuli_chr01	36268874	TT	CC	1946739963
SNP_P4_12741_36269003	NC_021160.1	Ca_kabuli_chr01	36269003	CC	AA	1946739965
SNP_P4_12742_36269220	NC_021160.1	Ca_kabuli_chr01	36269220	GG	AA	1946739967
SNP_P4_12743_36269288	NC_021160.1	Ca_kabuli_chr01	36269288	AA	GG	1946739969
SNP_P4_12744_36271768	NC_021160.1	Ca_kabuli_chr01	36271768	CC	TT	1946739971
SNP_P4_12745_36282959	NC_021160.1	Ca_kabuli_chr01	36282959	GG	AA	1946739973
SNP_P4_12746_36282974	NC_021160.1	Ca_kabuli_chr01	36282974	AA	GG	1946739975
SNP_P4_12747_36283052	NC_021160.1	Ca_kabuli_chr01	36283052	CC	GG	1946739977
SNP_P4_12748_36283284	NC_021160.1	Ca_kabuli_chr01	36283284	AA	GG	1946739979
SNP_P4_12749_36283292	NC_021160.1	Ca_kabuli_chr01	36283292	CC	TT	1946739981
SNP_P4_12750_36283366	NC_021160.1	Ca_kabuli_chr01	36283366	TT	GG	1946739983
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SNP_P4_12752_36283525	NC_021160.1	Ca_kabuli_chr01	36283525	AA	TT	1946739987
SNP_P4_12753_36283648	NC_021160.1	Ca_kabuli_chr01	36283648	AA	GG	1946739989
SNP_P4_12754_36296809	NC_021160.1	Ca_kabuli_chr01	36296809	CC	TT	1946739991
SNP_P4_12755_36297212	NC_021160.1	Ca_kabuli_chr01	36297212	CC	TT	1946739993
SNP_P4_12756_36297248	NC_021160.1	Ca_kabuli_chr01	36297248	GG	AA	1946739995
SNP_P4_12757_36297251	NC_021160.1	Ca_kabuli_chr01	36297251	AA	TT	1946739996
SNP_P4_12758_36297274	NC_021160.1	Ca_kabuli_chr01	36297274	TT	GG	1946739998
SNP_P4_12759_36300739	NC_021160.1	Ca_kabuli_chr01	36300739	CC	GG	1946740000
SNP_P4_12761_36342208	NC_021160.1	Ca_kabuli_chr01	36342208	GG	TT	1946740002
SNP_P4_12762_36345364	NC_021160.1	Ca_kabuli_chr01	36345364	CC	TT	1946740004
SNP_P4_12763_36346299	NC_021160.1	Ca_kabuli_chr01	36346299	GG	AA	1946740006
SNP_P4_12764_36349920	NC_021160.1	Ca_kabuli_chr01	36349920	AA	GG	1946740008
SNP_P4_12765_36356669	NC_021160.1	Ca_kabuli_chr01	36356669	CC	TT	1946740010
SNP_P4_12767_36471039	NC_021160.1	Ca_kabuli_chr01	36471039	AA	TT	1946740013
SNP_P4_12768_36474301	NC_021160.1	Ca_kabuli_chr01	36474301	CC	AA	1946740015
SNP_P4_12769_36513913	NC_021160.1	Ca_kabuli_chr01	36513913	CC	TT	1946740016

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_12771_36532215	NC_021160.1	Ca_kabuli_chr01	36532215	AA	GG	1946740020
SNP_P4_12772_36538673	NC_021160.1	Ca_kabuli_chr01	36538673	GG	AA	1946740022
SNP_P4_12773_36572256	NC_021160.1	Ca_kabuli_chr01	36572256	TT	CC	1946740024
SNP_P4_12774_36572403	NC_021160.1	Ca_kabuli_chr01	36572403	CC	TT	1946740026
SNP_P4_12775_36594233	NC_021160.1	Ca_kabuli_chr01	36594233	AA	GG	1946740028
SNP_P4_12776_36594295	NC_021160.1	Ca_kabuli_chr01	36594295	AA	GG	1946740030
SNP_P4_12779_36642427	NC_021160.1	Ca_kabuli_chr01	36642427	GG	TT	1946740032
SNP_P4_12780_36661470	NC_021160.1	Ca_kabuli_chr01	36661470	GG	AA	1946740034
SNP_P4_12781_36661471	NC_021160.1	Ca_kabuli_chr01	36661471	GG	AA	1946740036
SNP_P4_12782_36661673	NC_021160.1	Ca_kabuli_chr01	36661673	TT	AA	1946740038
SNP_P4_12783_36711602	NC_021160.1	Ca_kabuli_chr01	36711602	CC	TT	1946740040
SNP_P4_12784_36716787	NC_021160.1	Ca_kabuli_chr01	36716787	GG	AA	1946740042
SNP_P4_12785_36717288	NC_021160.1	Ca_kabuli_chr01	36717288	TT	CC	1946740044
SNP_P4_12786_36717359	NC_021160.1	Ca_kabuli_chr01	36717359	GG	AA	1946740046
SNP_P4_12787_36717373	NC_021160.1	Ca_kabuli_chr01	36717373	CC	TT	1946740048
SNP_P4_12788_36719702	NC_021160.1	Ca_kabuli_chr01	36719702	AA	GG	1946740050
SNP_P4_12789_36719818	NC_021160.1	Ca_kabuli_chr01	36719818	GG	CC	1946740052
SNP_P4_12790_36720183	NC_021160.1	Ca_kabuli_chr01	36720183	GG	AA	1946740054
SNP_P4_12791_36720238	NC_021160.1	Ca_kabuli_chr01	36720238	TT	GG	1946740056
SNP_P4_12792_36720512	NC_021160.1	Ca_kabuli_chr01	36720512	AA	CC	1946740058
SNP_P4_12793_36720676	NC_021160.1	Ca_kabuli_chr01	36720676	CC	TT	1946740060
SNP_P4_12794_36720726	NC_021160.1	Ca_kabuli_chr01	36720726	AA	TT	1946740063
SNP_P4_12795_36720753	NC_021160.1	Ca_kabuli_chr01	36720753	AA	GG	1946740065
SNP_P4_12796_36720797	NC_021160.1	Ca_kabuli_chr01	36720797	TT	CC	1946740067
SNP_P4_12797_36721516	NC_021160.1	Ca_kabuli_chr01	36721516	AA	GG	1946740069
SNP_P4_12798_36721673	NC_021160.1	Ca_kabuli_chr01	36721673	CC	TT	1946740071
SNP_P4_12799_36721753	NC_021160.1	Ca_kabuli_chr01	36721753	CC	TT	1946740073
SNP_P4_12800_36724371	NC_021160.1	Ca_kabuli_chr01	36724371	CC	GG	1946740075
SNP_P4_12801_36724411	NC_021160.1	Ca_kabuli_chr01	36724411	TT	GG	1946740077
SNP_P4_12802_36724418	NC_021160.1	Ca_kabuli_chr01	36724418	GG	TT	1946740078
SNP_P4_12803_36724484	NC_021160.1	Ca_kabuli_chr01	36724484	CC	AA	1946740080
SNP_P4_12804_36724490	NC_021160.1	Ca_kabuli_chr01	36724490	TT	AA	1946740082
SNP_P4_12805_36724530	NC_021160.1	Ca_kabuli_chr01	36724530	CC	TT	1946740084
SNP_P4_12806_36724531	NC_021160.1	Ca_kabuli_chr01	36724531	CC	AA	1946740086
SNP_P4_12807_36724560	NC_021160.1	Ca_kabuli_chr01	36724560	GG	AA	1946740089
SNP_P4_12808_36724578	NC_021160.1	Ca_kabuli_chr01	36724578	CC	TT	1946740091
SNP_P4_12809_36724627	NC_021160.1	Ca_kabuli_chr01	36724627	AA	GG	1946740093
SNP_P4_12810_36724684	NC_021160.1	Ca_kabuli_chr01	36724684	TT	AA	1946740095
SNP_P4_12811_36724691	NC_021160.1	Ca_kabuli_chr01	36724691	GG	TT	1946740097
SNP_P4_12812_36724698	NC_021160.1	Ca_kabuli_chr01	36724698	TT	CC	1946740099
SNP_P4_12813_36724701	NC_021160.1	Ca_kabuli_chr01	36724701	CC	TT	1946740101

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_12816_36724821	NC_021160.1	Ca_kabuli_chr01	36724821	GG	TT	1946740105
SNP_P4_12817_36724860	NC_021160.1	Ca_kabuli_chr01	36724860	GG	TT	1946740107
SNP_P4_12818_36724861	NC_021160.1	Ca_kabuli_chr01	36724861	AA	TT	1946740110
SNP_P4_12819_36725129	NC_021160.1	Ca_kabuli_chr01	36725129	TT	CC	1946740112
SNP_P4_12820_36725172	NC_021160.1	Ca_kabuli_chr01	36725172	TT	CC	1946740114
SNP_P4_12821_36725211	NC_021160.1	Ca_kabuli_chr01	36725211	TT	CC	1946740115
SNP_P4_12822_36725374	NC_021160.1	Ca_kabuli_chr01	36725374	TT	GG	1946740117
SNP_P4_12823_36725414	NC_021160.1	Ca_kabuli_chr01	36725414	TT	CC	1946740119
SNP_P4_12824_36725466	NC_021160.1	Ca_kabuli_chr01	36725466	AA	GG	1946740121
SNP_P4_12825_36725496	NC_021160.1	Ca_kabuli_chr01	36725496	TT	AA	1946740123
SNP_P4_12826_36725513	NC_021160.1	Ca_kabuli_chr01	36725513	CC	TT	1946740125
SNP_P4_12827_36725570	NC_021160.1	Ca_kabuli_chr01	36725570	CC	TT	1946740127
SNP_P4_12828_36725581	NC_021160.1	Ca_kabuli_chr01	36725581	GG	AA	1946740129
SNP_P4_12829_36725615	NC_021160.1	Ca_kabuli_chr01	36725615	CC	GG	1946740131
SNP_P4_12830_36725665	NC_021160.1	Ca_kabuli_chr01	36725665	TT	AA	1946740133
SNP_P4_12831_36725674	NC_021160.1	Ca_kabuli_chr01	36725674	TT	CC	1946740135
SNP_P4_12832_36725740	NC_021160.1	Ca_kabuli_chr01	36725740	GG	TT	1946740137
SNP_P4_12833_36725888	NC_021160.1	Ca_kabuli_chr01	36725888	CC	TT	1946740139
SNP_P4_12834_36725954	NC_021160.1	Ca_kabuli_chr01	36725954	GG	TT	1946740141
SNP_P4_12835_36725986	NC_021160.1	Ca_kabuli_chr01	36725986	AA	GG	1946740143
SNP_P4_12836_36726144	NC_021160.1	Ca_kabuli_chr01	36726144	CC	TT	1946740145
SNP_P4_12837_36726147	NC_021160.1	Ca_kabuli_chr01	36726147	TT	CC	1946740147
SNP_P4_12838_36726188	NC_021160.1	Ca_kabuli_chr01	36726188	AA	CC	1946740149
SNP_P4_12839_36726213	NC_021160.1	Ca_kabuli_chr01	36726213	CC	TT	1946740151
SNP_P4_12840_36726216	NC_021160.1	Ca_kabuli_chr01	36726216	CC	AA	1946740153
SNP_P4_12841_36726228	NC_021160.1	Ca_kabuli_chr01	36726228	AA	GG	1946740155
SNP_P4_12842_36726281	NC_021160.1	Ca_kabuli_chr01	36726281	AA	GG	1946740157
SNP_P4_12843_36726312	NC_021160.1	Ca_kabuli_chr01	36726312	AA	CC	1946740159
SNP_P4_12844_36726426	NC_021160.1	Ca_kabuli_chr01	36726426	CC	AA	1946740161
SNP_P4_12845_36726451	NC_021160.1	Ca_kabuli_chr01	36726451	TT	CC	1946740163
SNP_P4_12846_36726454	NC_021160.1	Ca_kabuli_chr01	36726454	AA	CC	1946740165
SNP_P4_12848_36726535	NC_021160.1	Ca_kabuli_chr01	36726535	CC	TT	1946740167
SNP_P4_12849_36726641	NC_021160.1	Ca_kabuli_chr01	36726641	GG	AA	1946740169
SNP_P4_12850_36726647	NC_021160.1	Ca_kabuli_chr01	36726647	TT	CC	1946740171
SNP_P4_12851_36726669	NC_021160.1	Ca_kabuli_chr01	36726669	AA	TT	1946740173
SNP_P4_12852_36726731	NC_021160.1	Ca_kabuli_chr01	36726731	TT	CC	1946740175
SNP_P4_12853_36727688	NC_021160.1	Ca_kabuli_chr01	36727688	AA	GG	1946740177
SNP_P4_12854_36727911	NC_021160.1	Ca_kabuli_chr01	36727911	TT	CC	1946740179
SNP_P4_12855_36727949	NC_021160.1	Ca_kabuli_chr01	36727949	CC	GG	1946740181
SNP_P4_12856_36728056	NC_021160.1	Ca_kabuli_chr01	36728056	AA	CC	1946740182
SNP_P4_12857_36728086	NC_021160.1	Ca_kabuli_chr01	36728086	GG	TT	1946740183

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_12860_36728412	NC_021160.1	Ca_kabuli_chr01	36728412	CC	TT	1946740186
SNP_P4_12861_36737904	NC_021160.1	Ca_kabuli_chr01	36737904	AA	GG	1946740187
SNP_P4_12862_36737930	NC_021160.1	Ca_kabuli_chr01	36737930	AA	GG	1946740189
SNP_P4_12863_36738279	NC_021160.1	Ca_kabuli_chr01	36738279	CC	AA	1946740191
SNP_P4_12864_36746132	NC_021160.1	Ca_kabuli_chr01	36746132	GG	AA	1946740193
SNP_P4_12866_36750034	NC_021160.1	Ca_kabuli_chr01	36750034	GG	TT	1946740195
SNP_P4_12867_36752304	NC_021160.1	Ca_kabuli_chr01	36752304	GG	AA	1946740197
SNP_P4_12868_36752315	NC_021160.1	Ca_kabuli_chr01	36752315	AA	GG	1946740199
SNP_P4_12869_36785235	NC_021160.1	Ca_kabuli_chr01	36785235	CC	TT	1946740201
SNP_P4_12870_36793619	NC_021160.1	Ca_kabuli_chr01	36793619	GG	AA	1946740203
SNP_P4_12871_36795031	NC_021160.1	Ca_kabuli_chr01	36795031	CC	TT	1946740205
SNP_P4_12872_36810281	NC_021160.1	Ca_kabuli_chr01	36810281	AA	TT	1946740207
SNP_P4_12873_36832941	NC_021160.1	Ca_kabuli_chr01	36832941	AA	CC	1946740209
SNP_P4_12875_36869134	NC_021160.1	Ca_kabuli_chr01	36869134	GG	TT	1946740211
SNP_P4_12876_36869160	NC_021160.1	Ca_kabuli_chr01	36869160	AA	TT	1946740213
SNP_P4_12877_36869170	NC_021160.1	Ca_kabuli_chr01	36869170	TT	GG	1946740215
SNP_P4_12878_36869173	NC_021160.1	Ca_kabuli_chr01	36869173	AA	GG	1946740217
SNP_P4_12879_36869204	NC_021160.1	Ca_kabuli_chr01	36869204	TT	AA	1946740219
SNP_P4_12880_36869208	NC_021160.1	Ca_kabuli_chr01	36869208	TT	CC	1946740221
SNP_P4_12881_36869213	NC_021160.1	Ca_kabuli_chr01	36869213	GG	AA	1946740223
SNP_P4_12882_36869214	NC_021160.1	Ca_kabuli_chr01	36869214	TT	GG	1946740225
SNP_P4_12883_36869217	NC_021160.1	Ca_kabuli_chr01	36869217	AA	GG	1946740227
SNP_P4_12884_36869233	NC_021160.1	Ca_kabuli_chr01	36869233	CC	AA	1946740229
SNP_P4_12886_36876807	NC_021160.1	Ca_kabuli_chr01	36876807	TT	CC	1946740231
SNP_P4_12887_36885282	NC_021160.1	Ca_kabuli_chr01	36885282	TT	CC	1946740233
SNP_P4_12888_36896268	NC_021160.1	Ca_kabuli_chr01	36896268	AA	GG	1946740235
SNP_P4_12889_36896280	NC_021160.1	Ca_kabuli_chr01	36896280	GG	CC	1946740237
SNP_P4_12890_36896563	NC_021160.1	Ca_kabuli_chr01	36896563	AA	TT	1946740239
SNP_P4_12891_36898180	NC_021160.1	Ca_kabuli_chr01	36898180	AA	GG	1946740241
SNP_P4_12892_36916737	NC_021160.1	Ca_kabuli_chr01	36916737	CC	TT	1946740243
SNP_P4_12893_36923226	NC_021160.1	Ca_kabuli_chr01	36923226	GG	AA	1946740244
SNP_P4_12894_36950089	NC_021160.1	Ca_kabuli_chr01	36950089	AA	CC	1946740246
SNP_P4_12895_36950113	NC_021160.1	Ca_kabuli_chr01	36950113	GG	TT	1946740248
SNP_P4_12896_36950177	NC_021160.1	Ca_kabuli_chr01	36950177	TT	AA	1946740250
SNP_P4_12897_36950222	NC_021160.1	Ca_kabuli_chr01	36950222	CC	TT	1946740252
SNP_P4_12898_36950225	NC_021160.1	Ca_kabuli_chr01	36950225	TT	GG	1946740254
SNP_P4_12899_36950227	NC_021160.1	Ca_kabuli_chr01	36950227	CC	TT	1946740256
SNP_P4_12900_36950239	NC_021160.1	Ca_kabuli_chr01	36950239	AA	GG	1946740258
SNP_P4_12901_36950240	NC_021160.1	Ca_kabuli_chr01	36950240	CC	AA	1946740260
SNP_P4_12902_36950242	NC_021160.1	Ca_kabuli_chr01	36950242	CC	AA	1946740262

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_12903_36950252	NC_021160.1	Ca_kabuli_chr01	36950252	GG	AA	1946740264
SNP_P4_12904_36950627	NC_021160.1	Ca_kabuli_chr01	36950627	AA	GG	1946740266
SNP_P4_12905_36956307	NC_021160.1	Ca_kabuli_chr01	36956307	AA	TT	1946740268
SNP_P4_12907_37032238	NC_021160.1	Ca_kabuli_chr01	37032238	CC	TT	1946740270
SNP_P4_12908_37033190	NC_021160.1	Ca_kabuli_chr01	37033190	AA	TT	1946740272
SNP_P4_12909_37034600	NC_021160.1	Ca_kabuli_chr01	37034600	GG	AA	1946740274
SNP_P4_12910_37037004	NC_021160.1	Ca_kabuli_chr01	37037004	AA	GG	1946740276
SNP_P4_12911_37037162	NC_021160.1	Ca_kabuli_chr01	37037162	AA	GG	1946740278
SNP_P4_12912_37037459	NC_021160.1	Ca_kabuli_chr01	37037459	TT	CC	1946740280
SNP_P4_12913_37037574	NC_021160.1	Ca_kabuli_chr01	37037574	TT	CC	1946740282
SNP_P4_12914_37037862	NC_021160.1	Ca_kabuli_chr01	37037862	TT	CC	1946740284
SNP_P4_12915_37038123	NC_021160.1	Ca_kabuli_chr01	37038123	GG	TT	1946740286
SNP_P4_12916_37038141	NC_021160.1	Ca_kabuli_chr01	37038141	CC	GG	1946740288
SNP_P4_12917_37038182	NC_021160.1	Ca_kabuli_chr01	37038182	CC	GG	1946740290
SNP_P4_12918_37038185	NC_021160.1	Ca_kabuli_chr01	37038185	TT	CC	1946740292
SNP_P4_12919_37042490	NC_021160.1	Ca_kabuli_chr01	37042490	AA	GG	1946740294
SNP_P4_12920_37042806	NC_021160.1	Ca_kabuli_chr01	37042806	CC	TT	1946740296
SNP_P4_12921_37043198	NC_021160.1	Ca_kabuli_chr01	37043198	CC	TT	1946740298
SNP_P4_12922_37054244	NC_021160.1	Ca_kabuli_chr01	37054244	GG	AA	1946740300
SNP_P4_12923_37054604	NC_021160.1	Ca_kabuli_chr01	37054604	GG	AA	1946740302
SNP_P4_12924_37054623	NC_021160.1	Ca_kabuli_chr01	37054623	CC	AA	1946740304
SNP_P4_12925_37054693	NC_021160.1	Ca_kabuli_chr01	37054693	TT	CC	1946740306
SNP_P4_12926_37054956	NC_021160.1	Ca_kabuli_chr01	37054956	CC	TT	1946740309
SNP_P4_12927_37055062	NC_021160.1	Ca_kabuli_chr01	37055062	CC	TT	1946740311
SNP_P4_12928_37075057	NC_021160.1	Ca_kabuli_chr01	37075057	AA	TT	1946740313
SNP_P4_12929_37078251	NC_021160.1	Ca_kabuli_chr01	37078251	GG	AA	1946740315
SNP_P4_12930_37078260	NC_021160.1	Ca_kabuli_chr01	37078260	CC	AA	1946740317
SNP_P4_12931_37078520	NC_021160.1	Ca_kabuli_chr01	37078520	CC	TT	1946740319
SNP_P4_12932_37078526	NC_021160.1	Ca_kabuli_chr01	37078526	GG	AA	1946740321
SNP_P4_12933_37078539	NC_021160.1	Ca_kabuli_chr01	37078539	TT	CC	1946740323
SNP_P4_12934_37078592	NC_021160.1	Ca_kabuli_chr01	37078592	TT	GG	1946740325
SNP_P4_12935_37078596	NC_021160.1	Ca_kabuli_chr01	37078596	GG	AA	1946740327
SNP_P4_12936_37078606	NC_021160.1	Ca_kabuli_chr01	37078606	TT	GG	1946740329
SNP_P4_12937_37078640	NC_021160.1	Ca_kabuli_chr01	37078640	CC	TT	1946740330
SNP_P4_12938_37078663	NC_021160.1	Ca_kabuli_chr01	37078663	AA	TT	1946740332
SNP_P4_12939_37078668	NC_021160.1	Ca_kabuli_chr01	37078668	AA	GG	1946740334
SNP_P4_12940_37078718	NC_021160.1	Ca_kabuli_chr01	37078718	CC	AA	1946740336
SNP_P4_12941_37078743	NC_021160.1	Ca_kabuli_chr01	37078743	AA	GG	1946740338
SNP_P4_12942_37078784	NC_021160.1	Ca_kabuli_chr01	37078784	AA	TT	1946740340
SNP_P4_12943_37078790	NC_021160.1	Ca_kabuli_chr01	37078790	AA	GG	1946740342
SNP_P4_12944_37078850	NC_021160.1	Ca_kabuli_chr01	37078850	CC	GG	1946740344
SNP_P4_12945_37078851	NC_021160.1	Ca_kabuli_chr01	37078851	TT	CC	1946740346

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_12948_37078986	NC_021160.1	Ca_kabuli_chr01	37078986	CC	AA	1946740350
SNP_P4_12949_37079000	NC_021160.1	Ca_kabuli_chr01	37079000	TT	GG	1946740352
SNP_P4_12950_37079031	NC_021160.1	Ca_kabuli_chr01	37079031	AA	CC	1946740354
SNP_P4_12951_37079038	NC_021160.1	Ca_kabuli_chr01	37079038	CC	GG	1946740356
SNP_P4_12952_37079093	NC_021160.1	Ca_kabuli_chr01	37079093	CC	TT	1946740358
SNP_P4_12953_37079208	NC_021160.1	Ca_kabuli_chr01	37079208	AA	TT	1946740360
SNP_P4_12955_37079424	NC_021160.1	Ca_kabuli_chr01	37079424	AA	GG	1946740362
SNP_P4_12956_37081498	NC_021160.1	Ca_kabuli_chr01	37081498	CC	TT	1946740364
SNP_P4_12957_37081504	NC_021160.1	Ca_kabuli_chr01	37081504	CC	TT	1946740366
SNP_P4_12958_37081578	NC_021160.1	Ca_kabuli_chr01	37081578	GG	CC	1946740368
SNP_P4_12959_37081631	NC_021160.1	Ca_kabuli_chr01	37081631	CC	TT	1946740370
SNP_P4_12960_37081722	NC_021160.1	Ca_kabuli_chr01	37081722	CC	TT	1946740372
SNP_P4_12961_37081772	NC_021160.1	Ca_kabuli_chr01	37081772	GG	TT	1946740374
SNP_P4_12962_37082115	NC_021160.1	Ca_kabuli_chr01	37082115	TT	CC	1946740376
SNP_P4_12964_37105971	NC_021160.1	Ca_kabuli_chr01	37105971	CC	TT	1946740377
SNP_P4_12965_37105977	NC_021160.1	Ca_kabuli_chr01	37105977	AA	CC	1946740379
SNP_P4_12966_37113270	NC_021160.1	Ca_kabuli_chr01	37113270	TT	CC	1946740381
SNP_P4_12967_37120760	NC_021160.1	Ca_kabuli_chr01	37120760	TT	AA	1946740383
SNP_P4_12968_37120818	NC_021160.1	Ca_kabuli_chr01	37120818	AA	GG	1946740385
SNP_P4_12969_37120833	NC_021160.1	Ca_kabuli_chr01	37120833	AA	CC	1946740387
SNP_P4_12970_37120867	NC_021160.1	Ca_kabuli_chr01	37120867	TT	AA	1946740389
SNP_P4_12971_37120925	NC_021160.1	Ca_kabuli_chr01	37120925	AA	GG	1946740392
SNP_P4_12972_37120966	NC_021160.1	Ca_kabuli_chr01	37120966	AA	GG	1946740394
SNP_P4_12973_37120967	NC_021160.1	Ca_kabuli_chr01	37120967	TT	GG	1946740396
SNP_P4_12974_37121059	NC_021160.1	Ca_kabuli_chr01	37121059	AA	GG	1946740398
SNP_P4_12975_37121094	NC_021160.1	Ca_kabuli_chr01	37121094	TT	CC	1946740400
SNP_P4_12976_37121100	NC_021160.1	Ca_kabuli_chr01	37121100	GG	AA	1946740402
SNP_P4_12977_37121121	NC_021160.1	Ca_kabuli_chr01	37121121	TT	CC	1946740404
SNP_P4_12978_37121152	NC_021160.1	Ca_kabuli_chr01	37121152	GG	AA	1946740406
SNP_P4_12979_37121197	NC_021160.1	Ca_kabuli_chr01	37121197	GG	AA	1946740408
SNP_P4_12980_37121213	NC_021160.1	Ca_kabuli_chr01	37121213	TT	AA	1946740410
SNP_P4_12981_37121360	NC_021160.1	Ca_kabuli_chr01	37121360	AA	GG	1946740412
SNP_P4_12982_37121638	NC_021160.1	Ca_kabuli_chr01	37121638	TT	AA	1946740414
SNP_P4_12983_37121663	NC_021160.1	Ca_kabuli_chr01	37121663	GG	AA	1946740416
SNP_P4_12984_37121682	NC_021160.1	Ca_kabuli_chr01	37121682	TT	CC	1946740418
SNP_P4_12985_37121704	NC_021160.1	Ca_kabuli_chr01	37121704	AA	TT	1946740420
SNP_P4_12986_37121762	NC_021160.1	Ca_kabuli_chr01	37121762	TT	CC	1946740422
SNP_P4_12987_37121830	NC_021160.1	Ca_kabuli_chr01	37121830	CC	TT	1946740424
SNP_P4_12988_37121835	NC_021160.1	Ca_kabuli_chr01	37121835	CC	AA	1946740426
SNP_P4_12989_37121858	NC_021160.1	Ca_kabuli_chr01	37121858	TT	CC	1946740428
SNP_P4_12990_37121872	NC_021160.1	Ca_kabuli_chr01	37121872	GG	AA	1946740430

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_12992_37121901	NC_021160.1	Ca_kabuli_chr01	37121901	AA	GG	1946740434
SNP_P4_12993_37121996	NC_021160.1	Ca_kabuli_chr01	37121996	TT	CC	1946740436
SNP_P4_12995_37122241	NC_021160.1	Ca_kabuli_chr01	37122241	CC	TT	1946740438
SNP_P4_12996_37122245	NC_021160.1	Ca_kabuli_chr01	37122245	AA	CC	1946740440
SNP_P4_12997_37122252	NC_021160.1	Ca_kabuli_chr01	37122252	CC	TT	1946740442
SNP_P4_12998_37122254	NC_021160.1	Ca_kabuli_chr01	37122254	AA	TT	1946740444
SNP_P4_12999_37122278	NC_021160.1	Ca_kabuli_chr01	37122278	AA	CC	1946740446
SNP_P4_13000_37122355	NC_021160.1	Ca_kabuli_chr01	37122355	GG	AA	1946740448
SNP_P4_13001_37122372	NC_021160.1	Ca_kabuli_chr01	37122372	CC	TT	1946740450
SNP_P4_13002_37122468	NC_021160.1	Ca_kabuli_chr01	37122468	GG	CC	1946740452
SNP_P4_13003_37122479	NC_021160.1	Ca_kabuli_chr01	37122479	TT	AA	1946740454
SNP_P4_13005_37122545	NC_021160.1	Ca_kabuli_chr01	37122545	GG	AA	1946740456
SNP_P4_13006_37122670	NC_021160.1	Ca_kabuli_chr01	37122670	AA	TT	1946740458
SNP_P4_13008_37122755	NC_021160.1	Ca_kabuli_chr01	37122755	TT	GG	1946740460
SNP_P4_13009_37122764	NC_021160.1	Ca_kabuli_chr01	37122764	TT	CC	1946740461
SNP_P4_13010_37122782	NC_021160.1	Ca_kabuli_chr01	37122782	CC	TT	1946740462
SNP_P4_13011_37122783	NC_021160.1	Ca_kabuli_chr01	37122783	GG	AA	1946740464
SNP_P4_13012_37122797	NC_021160.1	Ca_kabuli_chr01	37122797	CC	TT	1946740466
SNP_P4_13014_37122886	NC_021160.1	Ca_kabuli_chr01	37122886	GG	AA	1946740468
SNP_P4_13015_37122903	NC_021160.1	Ca_kabuli_chr01	37122903	TT	CC	1946740470
SNP_P4_13016_37122921	NC_021160.1	Ca_kabuli_chr01	37122921	AA	GG	1946740472
SNP_P4_13017_37122932	NC_021160.1	Ca_kabuli_chr01	37122932	AA	GG	1946740474
SNP_P4_13018_37122983	NC_021160.1	Ca_kabuli_chr01	37122983	TT	CC	1946740476
SNP_P4_13019_37122986	NC_021160.1	Ca_kabuli_chr01	37122986	GG	TT	1946740478
SNP_P4_13020_37122993	NC_021160.1	Ca_kabuli_chr01	37122993	GG	AA	1946740480
SNP_P4_13021_37122999	NC_021160.1	Ca_kabuli_chr01	37122999	AA	TT	1946740482
SNP_P4_13022_37123014	NC_021160.1	Ca_kabuli_chr01	37123014	TT	CC	1946740484
SNP_P4_13023_37123212	NC_021160.1	Ca_kabuli_chr01	37123212	CC	TT	1946740486
SNP_P4_13024_37125131	NC_021160.1	Ca_kabuli_chr01	37125131	CC	TT	1946740488
SNP_P4_13026_37128293	NC_021160.1	Ca_kabuli_chr01	37128293	CC	TT	1946740490
SNP_P4_13027_37128375	NC_021160.1	Ca_kabuli_chr01	37128375	CC	TT	1946740492
SNP_P4_13029_37128656	NC_021160.1	Ca_kabuli_chr01	37128656	TT	AA	1946740494
SNP_P4_13030_37128912	NC_021160.1	Ca_kabuli_chr01	37128912	AA	TT	1946740495
SNP_P4_13031_37128921	NC_021160.1	Ca_kabuli_chr01	37128921	AA	CC	1946740496
SNP_P4_13032_37128931	NC_021160.1	Ca_kabuli_chr01	37128931	TT	CC	1946740497
SNP_P4_13033_37128964	NC_021160.1	Ca_kabuli_chr01	37128964	TT	CC	1946740499
SNP_P4_13034_37129025	NC_021160.1	Ca_kabuli_chr01	37129025	TT	CC	1946740501
SNP_P4_13035_37129151	NC_021160.1	Ca_kabuli_chr01	37129151	GG	AA	1946740503
SNP_P4_13036_37129485	NC_021160.1	Ca_kabuli_chr01	37129485	CC	TT	1946740505
SNP_P4_13037_37129499	NC_021160.1	Ca_kabuli_chr01	37129499	TT	AA	1946740507
SNP_P4_13038_37130856	NC_021160.1	Ca_kabuli_chr01	37130856	TT	AA	1946740509

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_13040_37157298	NC_021160.1	Ca_kabuli_chr01	37157298	TT	CC	1946740513
SNP_P4_13041_37157582	NC_021160.1	Ca_kabuli_chr01	37157582	CC	TT	1946740515
SNP_P4_13042_37176011	NC_021160.1	Ca_kabuli_chr01	37176011	AA	GG	1946740517
SNP_P4_13044_37176435	NC_021160.1	Ca_kabuli_chr01	37176435	GG	AA	1946740519
SNP_P4_13045_37190446	NC_021160.1	Ca_kabuli_chr01	37190446	TT	CC	1946740520
SNP_P4_13047_37206621	NC_021160.1	Ca_kabuli_chr01	37206621	CC	TT	1946740522
SNP_P4_13050_37243095	NC_021160.1	Ca_kabuli_chr01	37243095	AA	GG	1946740524
SNP_P4_13051_37243424	NC_021160.1	Ca_kabuli_chr01	37243424	GG	AA	1946740526
SNP_P4_13052_37245423	NC_021160.1	Ca_kabuli_chr01	37245423	CC	TT	1946740529
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SNP_P4_13055_37246009	NC_021160.1	Ca_kabuli_chr01	37246009	CC	AA	1946740535
SNP_P4_13056_37249695	NC_021160.1	Ca_kabuli_chr01	37249695	AA	GG	1946740536
SNP_P4_13057_37258246	NC_021160.1	Ca_kabuli_chr01	37258246	CC	TT	1946740538
SNP_P4_13058_37260211	NC_021160.1	Ca_kabuli_chr01	37260211	AA	CC	1946740540
SNP_P4_13059_37260369	NC_021160.1	Ca_kabuli_chr01	37260369	AA	TT	1946740543
SNP_P4_13060_37279850	NC_021160.1	Ca_kabuli_chr01	37279850	TT	AA	1946740545
SNP_P4_13061_37279854	NC_021160.1	Ca_kabuli_chr01	37279854	CC	TT	1946740547
SNP_P4_13062_37281025	NC_021160.1	Ca_kabuli_chr01	37281025	TT	CC	1946740549
SNP_P4_13063_37283081	NC_021160.1	Ca_kabuli_chr01	37283081	TT	CC	1946740551
SNP_P4_13064_37291412	NC_021160.1	Ca_kabuli_chr01	37291412	GG	AA	1946740553
SNP_P4_13065_37302949	NC_021160.1	Ca_kabuli_chr01	37302949	AA	TT	1946740556
SNP_P4_13066_37336938	NC_021160.1	Ca_kabuli_chr01	37336938	CC	TT	1946740558
SNP_P4_13067_37350597	NC_021160.1	Ca_kabuli_chr01	37350597	CC	TT	1946740560
SNP_P4_13068_37351390	NC_021160.1	Ca_kabuli_chr01	37351390	AA	CC	1946740562
SNP_P4_13069_37353379	NC_021160.1	Ca_kabuli_chr01	37353379	CC	TT	1946740564
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SNP_P4_13071_37391919	NC_021160.1	Ca_kabuli_chr01	37391919	TT	CC	1946740568
SNP_P4_13072_37392862	NC_021160.1	Ca_kabuli_chr01	37392862	AA	TT	1946740569
SNP_P4_13073_37406056	NC_021160.1	Ca_kabuli_chr01	37406056	TT	CC	1946740571
SNP_P4_13074_37406232	NC_021160.1	Ca_kabuli_chr01	37406232	AA	CC	1946740573
SNP_P4_13075_37406260	NC_021160.1	Ca_kabuli_chr01	37406260	CC	AA	1946740575
SNP_P4_13076_37406323	NC_021160.1	Ca_kabuli_chr01	37406323	TT	CC	1946740577
SNP_P4_13077_37406352	NC_021160.1	Ca_kabuli_chr01	37406352	TT	CC	1946740579
SNP_P4_13078_37406459	NC_021160.1	Ca_kabuli_chr01	37406459	AA	CC	1946740581
SNP_P4_13079_37406566	NC_021160.1	Ca_kabuli_chr01	37406566	CC	TT	1946740583
SNP_P4_13080_37406586	NC_021160.1	Ca_kabuli_chr01	37406586	TT	CC	1946740585
SNP_P4_13081_37409796	NC_021160.1	Ca_kabuli_chr01	37409796	GG	AA	1946740587
SNP_P4_13082_37409823	NC_021160.1	Ca_kabuli_chr01	37409823	GG	AA	1946740589
SNP_P4_13083_37409842	NC_021160.1	Ca_kabuli_chr01	37409842	GG	AA	1946740591
SNP_P4_13084_37409886	NC_021160.1	Ca_kabuli_chr01	37409886	GG	AA	1946740593

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_13085_37409918	NC_021160.1	Ca_kabuli_chr01	37409918	TT	CC	1946740595
SNP_P4_13086_37409960	NC_021160.1	Ca_kabuli_chr01	37409960	TT	CC	1946740597
SNP_P4_13087_37409983	NC_021160.1	Ca_kabuli_chr01	37409983	AA	GG	1946740599
SNP_P4_13088_37410020	NC_021160.1	Ca_kabuli_chr01	37410020	TT	CC	1946740601
SNP_P4_13089_37410040	NC_021160.1	Ca_kabuli_chr01	37410040	TT	CC	1946740603
SNP_P4_13090_37410061	NC_021160.1	Ca_kabuli_chr01	37410061	GG	AA	1946740605
SNP_P4_13091_37410106	NC_021160.1	Ca_kabuli_chr01	37410106	AA	GG	1946740606
SNP_P4_13092_37410115	NC_021160.1	Ca_kabuli_chr01	37410115	TT	CC	1946740609
SNP_P4_13093_37410117	NC_021160.1	Ca_kabuli_chr01	37410117	AA	GG	1946740611
SNP_P4_13094_37410118	NC_021160.1	Ca_kabuli_chr01	37410118	TT	AA	1946740613
SNP_P4_13095_37410140	NC_021160.1	Ca_kabuli_chr01	37410140	GG	AA	1946740615
SNP_P4_13096_37410145	NC_021160.1	Ca_kabuli_chr01	37410145	GG	TT	1946740617
SNP_P4_13097_37410194	NC_021160.1	Ca_kabuli_chr01	37410194	AA	GG	1946740619
SNP_P4_13098_37410203	NC_021160.1	Ca_kabuli_chr01	37410203	GG	AA	1946740621
SNP_P4_13099_37410247	NC_021160.1	Ca_kabuli_chr01	37410247	TT	GG	1946740623
SNP_P4_13100_37410269	NC_021160.1	Ca_kabuli_chr01	37410269	TT	CC	1946740624
SNP_P4_13101_37410277	NC_021160.1	Ca_kabuli_chr01	37410277	GG	CC	1946740626
SNP_P4_13102_37410353	NC_021160.1	Ca_kabuli_chr01	37410353	CC	GG	1946740628
SNP_P4_13103_37410355	NC_021160.1	Ca_kabuli_chr01	37410355	AA	GG	1946740630
SNP_P4_13105_37410514	NC_021160.1	Ca_kabuli_chr01	37410514	GG	TT	1946740632
SNP_P4_13106_37410571	NC_021160.1	Ca_kabuli_chr01	37410571	GG	AA	1946740634
SNP_P4_13107_37410575	NC_021160.1	Ca_kabuli_chr01	37410575	CC	AA	1946740636
SNP_P4_13108_37410576	NC_021160.1	Ca_kabuli_chr01	37410576	TT	AA	1946740638
SNP_P4_13109_37410578	NC_021160.1	Ca_kabuli_chr01	37410578	TT	AA	1946740640
SNP_P4_13110_37410601	NC_021160.1	Ca_kabuli_chr01	37410601	TT	AA	1946740642
SNP_P4_13111_37410641	NC_021160.1	Ca_kabuli_chr01	37410641	AA	TT	1946740644
SNP_P4_13112_37410655	NC_021160.1	Ca_kabuli_chr01	37410655	CC	AA	1946740646
SNP_P4_13113_37410665	NC_021160.1	Ca_kabuli_chr01	37410665	CC	TT	1946740648
SNP_P4_13114_37411891	NC_021160.1	Ca_kabuli_chr01	37411891	TT	CC	1946740650
SNP_P4_13115_37411921	NC_021160.1	Ca_kabuli_chr01	37411921	AA	CC	1946740652
SNP_P4_13116_37412205	NC_021160.1	Ca_kabuli_chr01	37412205	CC	AA	1946740654
SNP_P4_13118_37419467	NC_021160.1	Ca_kabuli_chr01	37419467	AA	GG	1946740656
SNP_P4_13119_37419739	NC_021160.1	Ca_kabuli_chr01	37419739	AA	GG	1946740658
SNP_P4_13120_37420091	NC_021160.1	Ca_kabuli_chr01	37420091	GG	AA	1946740659
SNP_P4_13121_37420129	NC_021160.1	Ca_kabuli_chr01	37420129	TT	CC	1946740661
SNP_P4_13122_37420247	NC_021160.1	Ca_kabuli_chr01	37420247	GG	TT	1946740663
SNP_P4_13123_37420266	NC_021160.1	Ca_kabuli_chr01	37420266	AA	CC	1946740665
SNP_P4_13125_37420521	NC_021160.1	Ca_kabuli_chr01	37420521	CC	AA	1946740667
SNP_P4_13126_37420570	NC_021160.1	Ca_kabuli_chr01	37420570	TT	GG	1946740669
SNP_P4_13128_37420606	NC_021160.1	Ca_kabuli_chr01	37420606	GG	AA	1946740671
SNP_P4_13129_37420745	NC_021160.1	Ca_kabuli_chr01	37420745	GG	TT	1946740673
SNP_P4_13130_37420755	NC_021160.1	Ca_kabuli_chr01	37420755	GG	CC	1946740675

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_13134_37421536	NC_021160.1	Ca_kabuli_chr01	37421536	AA	TT	1946740680
SNP_P4_13135_37421603	NC_021160.1	Ca_kabuli_chr01	37421603	TT	AA	1946740682
SNP_P4_13136_37422161	NC_021160.1	Ca_kabuli_chr01	37422161	GG	AA	1946740684
SNP_P4_13137_37422166	NC_021160.1	Ca_kabuli_chr01	37422166	TT	CC	1946740686
SNP_P4_13138_37422188	NC_021160.1	Ca_kabuli_chr01	37422188	TT	AA	1946740688
SNP_P4_13139_37422380	NC_021160.1	Ca_kabuli_chr01	37422380	TT	AA	1946740690
SNP_P4_13140_37422419	NC_021160.1	Ca_kabuli_chr01	37422419	TT	AA	1946740692
SNP_P4_13142_37422569	NC_021160.1	Ca_kabuli_chr01	37422569	AA	TT	1946740694
SNP_P4_13143_37422583	NC_021160.1	Ca_kabuli_chr01	37422583	TT	AA	1946740696
SNP_P4_13144_37422692	NC_021160.1	Ca_kabuli_chr01	37422692	CC	TT	1946740698
SNP_P4_13145_37422853	NC_021160.1	Ca_kabuli_chr01	37422853	AA	TT	1946740700
SNP_P4_13146_37422872	NC_021160.1	Ca_kabuli_chr01	37422872	AA	GG	1946740702
SNP_P4_13147_37422996	NC_021160.1	Ca_kabuli_chr01	37422996	CC	GG	1946740703
SNP_P4_13148_37423041	NC_021160.1	Ca_kabuli_chr01	37423041	TT	CC	1946740705
SNP_P4_13149_37423112	NC_021160.1	Ca_kabuli_chr01	37423112	CC	AA	1946740707
SNP_P4_13150_37423210	NC_021160.1	Ca_kabuli_chr01	37423210	TT	CC	1946740709
SNP_P4_13151_37423969	NC_021160.1	Ca_kabuli_chr01	37423969	GG	AA	1946740711
SNP_P4_13152_37424235	NC_021160.1	Ca_kabuli_chr01	37424235	TT	GG	1946740713
SNP_P4_13153_37424240	NC_021160.1	Ca_kabuli_chr01	37424240	CC	TT	1946740715
SNP_P4_13154_37424244	NC_021160.1	Ca_kabuli_chr01	37424244	TT	AA	1946740717
SNP_P4_13156_37424379	NC_021160.1	Ca_kabuli_chr01	37424379	TT	CC	1946740719
SNP_P4_13157_37424411	NC_021160.1	Ca_kabuli_chr01	37424411	GG	TT	1946740721
SNP_P4_13158_37424486	NC_021160.1	Ca_kabuli_chr01	37424486	CC	GG	1946740723
SNP_P4_13159_37424513	NC_021160.1	Ca_kabuli_chr01	37424513	TT	GG	1946740725
SNP_P4_13160_37424550	NC_021160.1	Ca_kabuli_chr01	37424550	CC	TT	1946740728
SNP_P4_13161_37424582	NC_021160.1	Ca_kabuli_chr01	37424582	GG	TT	1946740730
SNP_P4_13162_37424599	NC_021160.1	Ca_kabuli_chr01	37424599	TT	GG	1946740734
SNP_P4_13164_37424797	NC_021160.1	Ca_kabuli_chr01	37424797	TT	GG	1946740736
SNP_P4_13165_37424857	NC_021160.1	Ca_kabuli_chr01	37424857	CC	TT	1946740738
SNP_P4_13166_37424873	NC_021160.1	Ca_kabuli_chr01	37424873	GG	TT	1946740740
SNP_P4_13167_37424903	NC_021160.1	Ca_kabuli_chr01	37424903	GG	AA	1946740742
SNP_P4_13168_37424945	NC_021160.1	Ca_kabuli_chr01	37424945	GG	TT	1946740744
SNP_P4_13170_37424995	NC_021160.1	Ca_kabuli_chr01	37424995	AA	GG	1946740746
SNP_P4_13171_37425011	NC_021160.1	Ca_kabuli_chr01	37425011	AA	GG	1946740747
SNP_P4_13172_37425061	NC_021160.1	Ca_kabuli_chr01	37425061	TT	GG	1946740749
SNP_P4_13174_37425092	NC_021160.1	Ca_kabuli_chr01	37425092	CC	TT	1946740751
SNP_P4_13176_37425240	NC_021160.1	Ca_kabuli_chr01	37425240	TT	GG	1946740753
SNP_P4_13178_37425536	NC_021160.1	Ca_kabuli_chr01	37425536	CC	AA	1946740755
SNP_P4_13179_37425559	NC_021160.1	Ca_kabuli_chr01	37425559	TT	GG	1946740757
SNP_P4_13180_37425577	NC_021160.1	Ca_kabuli_chr01	37425577	AA	GG	1946740759

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_13183_37425710	NC_021160.1	Ca_kabuli_chr01	37425710	TT	AA	1946740763
SNP_P4_13184_37425727	NC_021160.1	Ca_kabuli_chr01	37425727	TT	GG	1946740765
SNP_P4_13185_37426467	NC_021160.1	Ca_kabuli_chr01	37426467	TT	CC	1946740767
SNP_P4_13186_37426517	NC_021160.1	Ca_kabuli_chr01	37426517	AA	CC	1946740769
SNP_P4_13187_37432623	NC_021160.1	Ca_kabuli_chr01	37432623	TT	AA	1946740771
SNP_P4_13188_37433074	NC_021160.1	Ca_kabuli_chr01	37433074	TT	CC	1946740773
SNP_P4_13189_37433112	NC_021160.1	Ca_kabuli_chr01	37433112	TT	AA	1946740775
SNP_P4_13190_37433319	NC_021160.1	Ca_kabuli_chr01	37433319	CC	AA	1946740777
SNP_P4_13191_37433340	NC_021160.1	Ca_kabuli_chr01	37433340	TT	AA	1946740779
SNP_P4_13193_37433394	NC_021160.1	Ca_kabuli_chr01	37433394	CC	AA	1946740781
SNP_P4_13195_37433622	NC_021160.1	Ca_kabuli_chr01	37433622	CC	TT	1946740783
SNP_P4_13196_37433639	NC_021160.1	Ca_kabuli_chr01	37433639	AA	GG	1946740785
SNP_P4_13197_37433751	NC_021160.1	Ca_kabuli_chr01	37433751	GG	TT	1946740786
SNP_P4_13198_37450043	NC_021160.1	Ca_kabuli_chr01	37450043	AA	GG	1946740788
SNP_P4_13199_37450145	NC_021160.1	Ca_kabuli_chr01	37450145	AA	TT	1946740790
SNP_P4_13200_37450161	NC_021160.1	Ca_kabuli_chr01	37450161	CC	GG	1946740792
SNP_P4_13201_37450211	NC_021160.1	Ca_kabuli_chr01	37450211	CC	TT	1946740794
SNP_P4_13202_37450284	NC_021160.1	Ca_kabuli_chr01	37450284	GG	CC	1946740796
SNP_P4_13203_37450387	NC_021160.1	Ca_kabuli_chr01	37450387	AA	GG	1946740798
SNP_P4_13204_37450558	NC_021160.1	Ca_kabuli_chr01	37450558	AA	CC	1946740800
SNP_P4_13205_37450596	NC_021160.1	Ca_kabuli_chr01	37450596	CC	TT	1946740802
SNP_P4_13206_37450636	NC_021160.1	Ca_kabuli_chr01	37450636	GG	CC	1946740804
SNP_P4_13207_37450660	NC_021160.1	Ca_kabuli_chr01	37450660	GG	TT	1946740806
SNP_P4_13208_37450706	NC_021160.1	Ca_kabuli_chr01	37450706	CC	TT	1946740808
SNP_P4_13209_37450734	NC_021160.1	Ca_kabuli_chr01	37450734	TT	AA	1946740810
SNP_P4_13210_37450833	NC_021160.1	Ca_kabuli_chr01	37450833	AA	TT	1946740812
SNP_P4_13211_37452707	NC_021160.1	Ca_kabuli_chr01	37452707	GG	CC	1946740814
SNP_P4_13212_37452708	NC_021160.1	Ca_kabuli_chr01	37452708	AA	TT	1946740816
SNP_P4_13213_37453008	NC_021160.1	Ca_kabuli_chr01	37453008	AA	TT	1946740818
SNP_P4_13214_37457132	NC_021160.1	Ca_kabuli_chr01	37457132	GG	AA	1946740820
SNP_P4_13215_37465413	NC_021160.1	Ca_kabuli_chr01	37465413	CC	AA	1946740822
SNP_P4_13216_37466440	NC_021160.1	Ca_kabuli_chr01	37466440	TT	GG	1946740824
SNP_P4_13217_37466599	NC_021160.1	Ca_kabuli_chr01	37466599	GG	AA	1946740825
SNP_P4_13218_37466735	NC_021160.1	Ca_kabuli_chr01	37466735	TT	AA	1946740827
SNP_P4_13219_37466787	NC_021160.1	Ca_kabuli_chr01	37466787	CC	GG	1946740830
SNP_P4_13220_37466792	NC_021160.1	Ca_kabuli_chr01	37466792	AA	GG	1946740832
SNP_P4_13221_37468422	NC_021160.1	Ca_kabuli_chr01	37468422	CC	AA	1946740834
SNP_P4_13222_37468423	NC_021160.1	Ca_kabuli_chr01	37468423	AA	TT	1946740836
SNP_P4_13223_37468434	NC_021160.1	Ca_kabuli_chr01	37468434	CC	TT	1946740838
SNP_P4_13224_37468439	NC_021160.1	Ca_kabuli_chr01	37468439	TT	GG	1946740840
SNP_P4_13225_37468753	NC_021160.1	Ca_kabuli_chr01	37468753	TT	AA	1946740842

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_13227_37468916	NC_021160.1	Ca_kabuli_chr01	37468916	CC	AA	1946740846
SNP_P4_13228_37468930	NC_021160.1	Ca_kabuli_chr01	37468930	AA	GG	1946740848
SNP_P4_13229_37469069	NC_021160.1	Ca_kabuli_chr01	37469069	AA	GG	1946740850
SNP_P4_13230_37469081	NC_021160.1	Ca_kabuli_chr01	37469081	TT	CC	1946740851
SNP_P4_13231_37469094	NC_021160.1	Ca_kabuli_chr01	37469094	TT	AA	1946740853
SNP_P4_13232_37469135	NC_021160.1	Ca_kabuli_chr01	37469135	AA	TT	1946740855
SNP_P4_13233_37469153	NC_021160.1	Ca_kabuli_chr01	37469153	TT	AA	1946740857
SNP_P4_13234_37469168	NC_021160.1	Ca_kabuli_chr01	37469168	AA	GG	1946740859
SNP_P4_13235_37469189	NC_021160.1	Ca_kabuli_chr01	37469189	CC	AA	1946740861
SNP_P4_13236_37469274	NC_021160.1	Ca_kabuli_chr01	37469274	CC	GG	1946740863
SNP_P4_13237_37487948	NC_021160.1	Ca_kabuli_chr01	37487948	AA	GG	1946740865
SNP_P4_13238_37489456	NC_021160.1	Ca_kabuli_chr01	37489456	GG	AA	1946740867
SNP_P4_13239_37489703	NC_021160.1	Ca_kabuli_chr01	37489703	CC	AA	1946740869
SNP_P4_13240_37489740	NC_021160.1	Ca_kabuli_chr01	37489740	AA	CC	1946740871
SNP_P4_13241_37489857	NC_021160.1	Ca_kabuli_chr01	37489857	TT	CC	1946740873
SNP_P4_13242_37489902	NC_021160.1	Ca_kabuli_chr01	37489902	AA	GG	1946740875
SNP_P4_13243_37489914	NC_021160.1	Ca_kabuli_chr01	37489914	GG	AA	1946740877
SNP_P4_13246_37490042	NC_021160.1	Ca_kabuli_chr01	37490042	AA	TT	1946740879
SNP_P4_13247_37490043	NC_021160.1	Ca_kabuli_chr01	37490043	AA	CC	1946740881
SNP_P4_13249_37498745	NC_021160.1	Ca_kabuli_chr01	37498745	CC	TT	1946740883
SNP_P4_13250_37500950	NC_021160.1	Ca_kabuli_chr01	37500950	TT	AA	1946740885
SNP_P4_13251_37500992	NC_021160.1	Ca_kabuli_chr01	37500992	TT	AA	1946740887
SNP_P4_13252_37501821	NC_021160.1	Ca_kabuli_chr01	37501821	TT	AA	1946740889
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SNP_P4_13254_37505783	NC_021160.1	Ca_kabuli_chr01	37505783	TT	AA	1946740893
SNP_P4_13255_37505824	NC_021160.1	Ca_kabuli_chr01	37505824	TT	CC	1946740895
SNP_P4_13256_37506284	NC_021160.1	Ca_kabuli_chr01	37506284	AA	CC	1946740897
SNP_P4_13257_37538587	NC_021160.1	Ca_kabuli_chr01	37538587	AA	GG	1946740899
SNP_P4_13258_37552685	NC_021160.1	Ca_kabuli_chr01	37552685	GG	AA	1946740901
SNP_P4_13259_37556281	NC_021160.1	Ca_kabuli_chr01	37556281	GG	AA	1946740903
SNP_P4_13261_37583920	NC_021160.1	Ca_kabuli_chr01	37583920	AA	GG	1946740905
SNP_P4_13262_37584720	NC_021160.1	Ca_kabuli_chr01	37584720	AA	TT	1946740907
SNP_P4_13263_37601906	NC_021160.1	Ca_kabuli_chr01	37601906	CC	TT	1946740909
SNP_P4_13264_37629295	NC_021160.1	Ca_kabuli_chr01	37629295	AA	CC	1946740911
SNP_P4_13265_37632791	NC_021160.1	Ca_kabuli_chr01	37632791	TT	CC	1946740913
SNP_P4_13266_37634076	NC_021160.1	Ca_kabuli_chr01	37634076	AA	GG	1946740915
SNP_P4_13267_37634077	NC_021160.1	Ca_kabuli_chr01	37634077	AA	CC	1946740917
SNP_P4_13268_37646989	NC_021160.1	Ca_kabuli_chr01	37646989	CC	GG	1946740919
SNP_P4_13270_37690987	NC_021160.1	Ca_kabuli_chr01	37690987	CC	GG	1946740921
SNP_P4_13271_37691006	NC_021160.1	Ca_kabuli_chr01	37691006	CC	TT	1946740923
SNP_P4_13272_37691024	NC_021160.1	Ca_kabuli_chr01	37691024	GG	AA	1946740925

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_13274_37691522	NC_021160.1	Ca_kabuli_chr01	37691522	TT	AA	1946740929
SNP_P4_13275_37691523	NC_021160.1	Ca_kabuli_chr01	37691523	TT	AA	1946740932
SNP_P4_13276_37691537	NC_021160.1	Ca_kabuli_chr01	37691537	TT	AA	1946740934
SNP_P4_13277_37691542	NC_021160.1	Ca_kabuli_chr01	37691542	AA	GG	1946740937
SNP_P4_13278_37693132	NC_021160.1	Ca_kabuli_chr01	37693132	TT	AA	1946740939
SNP_P4_13281_37694016	NC_021160.1	Ca_kabuli_chr01	37694016	CC	TT	1946740941
SNP_P4_13282_37694227	NC_021160.1	Ca_kabuli_chr01	37694227	AA	GG	1946740944
SNP_P4_13284_37697574	NC_021160.1	Ca_kabuli_chr01	37697574	CC	TT	1946740946
SNP_P4_13285_37697581	NC_021160.1	Ca_kabuli_chr01	37697581	TT	CC	1946740948
SNP_P4_13286_37697883	NC_021160.1	Ca_kabuli_chr01	37697883	AA	CC	1946740950
SNP_P4_13287_37698025	NC_021160.1	Ca_kabuli_chr01	37698025	GG	AA	1946740952
SNP_P4_13288_37698029	NC_021160.1	Ca_kabuli_chr01	37698029	CC	TT	1946740954
SNP_P4_13289_37698045	NC_021160.1	Ca_kabuli_chr01	37698045	AA	GG	1946740956
SNP_P4_13290_37698053	NC_021160.1	Ca_kabuli_chr01	37698053	TT	AA	1946740958
SNP_P4_13291_37701266	NC_021160.1	Ca_kabuli_chr01	37701266	CC	AA	1946740960
SNP_P4_13292_37701282	NC_021160.1	Ca_kabuli_chr01	37701282	AA	TT	1946740962
SNP_P4_13293_37701285	NC_021160.1	Ca_kabuli_chr01	37701285	CC	GG	1946740963
SNP_P4_13294_37701832	NC_021160.1	Ca_kabuli_chr01	37701832	CC	AA	1946740965
SNP_P4_13296_37703030	NC_021160.1	Ca_kabuli_chr01	37703030	CC	TT	1946740967
SNP_P4_13297_37704903	NC_021160.1	Ca_kabuli_chr01	37704903	GG	AA	1946740969
SNP_P4_13298_37704945	NC_021160.1	Ca_kabuli_chr01	37704945	TT	CC	1946740971
SNP_P4_13299_37704970	NC_021160.1	Ca_kabuli_chr01	37704970	AA	GG	1946740973
SNP_P4_13300_37708755	NC_021160.1	Ca_kabuli_chr01	37708755	GG	TT	1946740975
SNP_P4_13301_37709948	NC_021160.1	Ca_kabuli_chr01	37709948	AA	CC	1946740977
SNP_P4_13302_37710172	NC_021160.1	Ca_kabuli_chr01	37710172	CC	GG	1946740979
SNP_P4_13303_37710190	NC_021160.1	Ca_kabuli_chr01	37710190	TT	CC	1946740981
SNP_P4_13304_37710476	NC_021160.1	Ca_kabuli_chr01	37710476	CC	AA	1946740983
SNP_P4_13306_37710540	NC_021160.1	Ca_kabuli_chr01	37710540	GG	AA	1946740985
SNP_P4_13307_37710602	NC_021160.1	Ca_kabuli_chr01	37710602	GG	AA	1946740987
SNP_P4_13308_37710622	NC_021160.1	Ca_kabuli_chr01	37710622	CC	GG	1946740989
SNP_P4_13309_37710623	NC_021160.1	Ca_kabuli_chr01	37710623	TT	AA	1946740991
SNP_P4_13311_37714049	NC_021160.1	Ca_kabuli_chr01	37714049	TT	CC	1946740993
SNP_P4_13312_37714050	NC_021160.1	Ca_kabuli_chr01	37714050	TT	CC	1946740995
SNP_P4_13314_37714795	NC_021160.1	Ca_kabuli_chr01	37714795	CC	TT	1946740997
SNP_P4_13315_37714955	NC_021160.1	Ca_kabuli_chr01	37714955	CC	TT	1946740999
SNP_P4_13316_37714964	NC_021160.1	Ca_kabuli_chr01	37714964	GG	AA	1946741001
SNP_P4_13317_37714975	NC_021160.1	Ca_kabuli_chr01	37714975	GG	AA	1946741002
SNP_P4_13318_37714994	NC_021160.1	Ca_kabuli_chr01	37714994	TT	CC	1946741004
SNP_P4_13319_37714998	NC_021160.1	Ca_kabuli_chr01	37714998	GG	AA	1946741006
SNP_P4_13320_37715027	NC_021160.1	Ca_kabuli_chr01	37715027	CC	TT	1946741008
SNP_P4_13321_37715085	NC_021160.1	Ca_kabuli_chr01	37715085	CC	TT	1946741010

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_13323_37715131	NC_021160.1	Ca_kabuli_chr01	37715131	GG	AA	1946741014
SNP_P4_13324_37715309	NC_021160.1	Ca_kabuli_chr01	37715309	AA	CC	1946741016
SNP_P4_13325_37715317	NC_021160.1	Ca_kabuli_chr01	37715317	CC	TT	1946741018
SNP_P4_13327_37716232	NC_021160.1	Ca_kabuli_chr01	37716232	AA	CC	1946741020
SNP_P4_13328_37716356	NC_021160.1	Ca_kabuli_chr01	37716356	CC	AA	1946741022
SNP_P4_13329_37716357	NC_021160.1	Ca_kabuli_chr01	37716357	GG	CC	1946741024
SNP_P4_13330_37716462	NC_021160.1	Ca_kabuli_chr01	37716462	CC	TT	1946741026
SNP_P4_13331_37716659	NC_021160.1	Ca_kabuli_chr01	37716659	AA	GG	1946741028
SNP_P4_13332_37716731	NC_021160.1	Ca_kabuli_chr01	37716731	CC	TT	1946741030
SNP_P4_13333_37716757	NC_021160.1	Ca_kabuli_chr01	37716757	AA	GG	1946741032
SNP_P4_13334_37716759	NC_021160.1	Ca_kabuli_chr01	37716759	TT	CC	1946741034
SNP_P4_13335_37716766	NC_021160.1	Ca_kabuli_chr01	37716766	GG	TT	1946741036
SNP_P4_13336_37716926	NC_021160.1	Ca_kabuli_chr01	37716926	TT	CC	1946741038
SNP_P4_13337_37716964	NC_021160.1	Ca_kabuli_chr01	37716964	TT	CC	1946741040
SNP_P4_13338_37716972	NC_021160.1	Ca_kabuli_chr01	37716972	TT	CC	1946741042
SNP_P4_13340_37717230	NC_021160.1	Ca_kabuli_chr01	37717230	GG	CC	1946741044
SNP_P4_13341_37717256	NC_021160.1	Ca_kabuli_chr01	37717256	CC	TT	1946741046
SNP_P4_13342_37717866	NC_021160.1	Ca_kabuli_chr01	37717866	TT	CC	1946741047
SNP_P4_13343_37717893	NC_021160.1	Ca_kabuli_chr01	37717893	AA	CC	1946741049
SNP_P4_13344_37717897	NC_021160.1	Ca_kabuli_chr01	37717897	TT	CC	1946741051
SNP_P4_13345_37717920	NC_021160.1	Ca_kabuli_chr01	37717920	TT	AA	1946741053
SNP_P4_13346_37717924	NC_021160.1	Ca_kabuli_chr01	37717924	AA	GG	1946741055
SNP_P4_13347_37717971	NC_021160.1	Ca_kabuli_chr01	37717971	CC	TT	1946741057
SNP_P4_13348_37717986	NC_021160.1	Ca_kabuli_chr01	37717986	CC	TT	1946741059
SNP_P4_13349_37718328	NC_021160.1	Ca_kabuli_chr01	37718328	TT	AA	1946741061
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SNP_P4_13351_37719361	NC_021160.1	Ca_kabuli_chr01	37719361	GG	AA	1946741065
SNP_P4_13352_37719402	NC_021160.1	Ca_kabuli_chr01	37719402	GG	AA	1946741067
SNP_P4_13353_37719421	NC_021160.1	Ca_kabuli_chr01	37719421	GG	AA	1946741068
SNP_P4_13354_37719598	NC_021160.1	Ca_kabuli_chr01	37719598	CC	TT	1946741070
SNP_P4_13355_37719630	NC_021160.1	Ca_kabuli_chr01	37719630	GG	AA	1946741072
SNP_P4_13356_37719657	NC_021160.1	Ca_kabuli_chr01	37719657	GG	AA	1946741074
SNP_P4_13357_37719881	NC_021160.1	Ca_kabuli_chr01	37719881	TT	CC	1946741076
SNP_P4_13358_37720277	NC_021160.1	Ca_kabuli_chr01	37720277	AA	GG	1946741078
SNP_P4_13359_37720309	NC_021160.1	Ca_kabuli_chr01	37720309	AA	CC	1946741080
SNP_P4_13360_37720323	NC_021160.1	Ca_kabuli_chr01	37720323	AA	GG	1946741082
SNP_P4_13361_37720622	NC_021160.1	Ca_kabuli_chr01	37720622	GG	AA	1946741084
SNP_P4_13362_37720717	NC_021160.1	Ca_kabuli_chr01	37720717	GG	AA	1946741086
SNP_P4_13363_37720826	NC_021160.1	Ca_kabuli_chr01	37720826	CC	TT	1946741088
SNP_P4_13364_37720859	NC_021160.1	Ca_kabuli_chr01	37720859	AA	GG	1946741090
SNP_P4_13366_37721021	NC_021160.1	Ca_kabuli_chr01	37721021	AA	TT	1946741092

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_13369_37721164	NC_021160.1	Ca_kabuli_chr01	37721164	GG	CC	1946741096
SNP_P4_13370_37721250	NC_021160.1	Ca_kabuli_chr01	37721250	GG	AA	1946741098
SNP_P4_13371_37721288	NC_021160.1	Ca_kabuli_chr01	37721288	TT	CC	1946741100
SNP_P4_13372_37721336	NC_021160.1	Ca_kabuli_chr01	37721336	CC	TT	1946741102
SNP_P4_13373_37721352	NC_021160.1	Ca_kabuli_chr01	37721352	CC	TT	1946741104
SNP_P4_13374_37721369	NC_021160.1	Ca_kabuli_chr01	37721369	TT	AA	1946741106
SNP_P4_13376_37721407	NC_021160.1	Ca_kabuli_chr01	37721407	TT	AA	1946741108
SNP_P4_13378_37722236	NC_021160.1	Ca_kabuli_chr01	37722236	CC	TT	1946741110
SNP_P4_13379_37724690	NC_021160.1	Ca_kabuli_chr01	37724690	CC	AA	1946741112
SNP_P4_13381_37725467	NC_021160.1	Ca_kabuli_chr01	37725467	GG	AA	1946741114
SNP_P4_13382_37725540	NC_021160.1	Ca_kabuli_chr01	37725540	AA	TT	1946741116
SNP_P4_13384_37728793	NC_021160.1	Ca_kabuli_chr01	37728793	TT	CC	1946741118
SNP_P4_13385_37728818	NC_021160.1	Ca_kabuli_chr01	37728818	AA	CC	1946741120
SNP_P4_13386_37732998	NC_021160.1	Ca_kabuli_chr01	37732998	TT	AA	1946741122
SNP_P4_13387_37736546	NC_021160.1	Ca_kabuli_chr01	37736546	TT	CC	1946741124
SNP_P4_13388_37736786	NC_021160.1	Ca_kabuli_chr01	37736786	TT	CC	1946741126
SNP_P4_13389_37738367	NC_021160.1	Ca_kabuli_chr01	37738367	GG	AA	1946741128
SNP_P4_13390_37738627	NC_021160.1	Ca_kabuli_chr01	37738627	AA	GG	1946741130
SNP_P4_13391_37741074	NC_021160.1	Ca_kabuli_chr01	37741074	GG	AA	1946741132
SNP_P4_13392_37741118	NC_021160.1	Ca_kabuli_chr01	37741118	AA	GG	1946741134
SNP_P4_13393_37742866	NC_021160.1	Ca_kabuli_chr01	37742866	AA	TT	1946741136
SNP_P4_13394_37744066	NC_021160.1	Ca_kabuli_chr01	37744066	TT	CC	1946741138
SNP_P4_13395_37744104	NC_021160.1	Ca_kabuli_chr01	37744104	TT	AA	1946741140
SNP_P4_13396_37744162	NC_021160.1	Ca_kabuli_chr01	37744162	TT	CC	1946741142
SNP_P4_13397_37744443	NC_021160.1	Ca_kabuli_chr01	37744443	GG	AA	1946741144
SNP_P4_13398_37744445	NC_021160.1	Ca_kabuli_chr01	37744445	TT	GG	1946741146
SNP_P4_13399_37744740	NC_021160.1	Ca_kabuli_chr01	37744740	GG	AA	1946741148
SNP_P4_13400_37745828	NC_021160.1	Ca_kabuli_chr01	37745828	TT	CC	1946741150
SNP_P4_13401_37745848	NC_021160.1	Ca_kabuli_chr01	37745848	CC	AA	1946741152
SNP_P4_13402_37745874	NC_021160.1	Ca_kabuli_chr01	37745874	AA	GG	1946741154
SNP_P4_13403_37747134	NC_021160.1	Ca_kabuli_chr01	37747134	AA	GG	1946741156
SNP_P4_13405_37747328	NC_021160.1	Ca_kabuli_chr01	37747328	TT	CC	1946741158
SNP_P4_13408_37747458	NC_021160.1	Ca_kabuli_chr01	37747458	AA	GG	1946741159
SNP_P4_13409_37747618	NC_021160.1	Ca_kabuli_chr01	37747618	GG	AA	1946741161
SNP_P4_13410_37747628	NC_021160.1	Ca_kabuli_chr01	37747628	AA	GG	1946741163
SNP_P4_13411_37747823	NC_021160.1	Ca_kabuli_chr01	37747823	AA	TT	1946741165
SNP_P4_13412_37750716	NC_021160.1	Ca_kabuli_chr01	37750716	CC	TT	1946741167
SNP_P4_13413_37750740	NC_021160.1	Ca_kabuli_chr01	37750740	AA	GG	1946741169
SNP_P4_13414_37751960	NC_021160.1	Ca_kabuli_chr01	37751960	TT	CC	1946741171
SNP_P4_13415_37751990	NC_021160.1	Ca_kabuli_chr01	37751990	AA	GG	1946741172
SNP_P4_13417_37758136	NC_021160.1	Ca_kabuli_chr01	37758136	GG	AA	1946741174

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_13419_37758328	NC_021160.1	Ca_kabuli_chr01	37758328	AA	GG	1946741178
SNP_P4_13420_37759117	NC_021160.1	Ca_kabuli_chr01	37759117	TT	GG	1946741180
SNP_P4_13421_37759119	NC_021160.1	Ca_kabuli_chr01	37759119	AA	GG	1946741182
SNP_P4_13422_37759148	NC_021160.1	Ca_kabuli_chr01	37759148	TT	GG	1946741184
SNP_P4_13424_37759629	NC_021160.1	Ca_kabuli_chr01	37759629	GG	AA	1946741186
SNP_P4_13425_37759641	NC_021160.1	Ca_kabuli_chr01	37759641	AA	GG	1946741188
SNP_P4_13426_37761293	NC_021160.1	Ca_kabuli_chr01	37761293	GG	AA	1946741190
SNP_P4_13427_37761534	NC_021160.1	Ca_kabuli_chr01	37761534	GG	AA	1946741192
SNP_P4_13428_37761541	NC_021160.1	Ca_kabuli_chr01	37761541	GG	CC	1946741194
SNP_P4_13430_37761716	NC_021160.1	Ca_kabuli_chr01	37761716	AA	GG	1946741196
SNP_P4_13431_37761728	NC_021160.1	Ca_kabuli_chr01	37761728	CC	TT	1946741198
SNP_P4_13432_37761767	NC_021160.1	Ca_kabuli_chr01	37761767	TT	CC	1946741199
SNP_P4_13433_37761830	NC_021160.1	Ca_kabuli_chr01	37761830	TT	AA	1946741201
SNP_P4_13434_37761947	NC_021160.1	Ca_kabuli_chr01	37761947	CC	TT	1946741203
SNP_P4_13435_37762451	NC_021160.1	Ca_kabuli_chr01	37762451	CC	TT	1946741205
SNP_P4_13436_37762462	NC_021160.1	Ca_kabuli_chr01	37762462	GG	AA	1946741207
SNP_P4_13437_37762700	NC_021160.1	Ca_kabuli_chr01	37762700	GG	TT	1946741209
SNP_P4_13438_37762703	NC_021160.1	Ca_kabuli_chr01	37762703	CC	AA	1946741211
SNP_P4_13439_37762747	NC_021160.1	Ca_kabuli_chr01	37762747	GG	CC	1946741213
SNP_P4_13440_37762756	NC_021160.1	Ca_kabuli_chr01	37762756	GG	TT	1946741215
SNP_P4_13441_37762761	NC_021160.1	Ca_kabuli_chr01	37762761	AA	GG	1946741217
SNP_P4_13442_37763072	NC_021160.1	Ca_kabuli_chr01	37763072	GG	CC	1946741219
SNP_P4_13443_37767716	NC_021160.1	Ca_kabuli_chr01	37767716	GG	AA	1946741221
SNP_P4_13444_37768015	NC_021160.1	Ca_kabuli_chr01	37768015	AA	CC	1946741223
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SNP_P4_13446_37769617	NC_021160.1	Ca_kabuli_chr01	37769617	AA	GG	1946741227
SNP_P4_13447_37769618	NC_021160.1	Ca_kabuli_chr01	37769618	GG	AA	1946741229
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SNP_P4_13449_37770174	NC_021160.1	Ca_kabuli_chr01	37770174	GG	AA	1946741233
SNP_P4_13450_37770179	NC_021160.1	Ca_kabuli_chr01	37770179	GG	AA	1946741235
SNP_P4_13451_37770193	NC_021160.1	Ca_kabuli_chr01	37770193	TT	GG	1946741237
SNP_P4_13452_37771266	NC_021160.1	Ca_kabuli_chr01	37771266	AA	GG	1946741239
SNP_P4_13453_37772690	NC_021160.1	Ca_kabuli_chr01	37772690	CC	TT	1946741241
SNP_P4_13454_37772728	NC_021160.1	Ca_kabuli_chr01	37772728	TT	AA	1946741244
SNP_P4_13455_37772732	NC_021160.1	Ca_kabuli_chr01	37772732	CC	AA	1946741246
SNP_P4_13456_37772736	NC_021160.1	Ca_kabuli_chr01	37772736	CC	AA	1946741248
SNP_P4_13457_37772739	NC_021160.1	Ca_kabuli_chr01	37772739	TT	CC	1946741250
SNP_P4_13458_37772754	NC_021160.1	Ca_kabuli_chr01	37772754	AA	CC	1946741252
SNP_P4_13459_37772919	NC_021160.1	Ca_kabuli_chr01	37772919	CC	TT	1946741254
SNP_P4_13460_37773115	NC_021160.1	Ca_kabuli_chr01	37773115	TT	CC	1946741256
SNP_P4_13463_37776114	NC_021160.1	Ca_kabuli_chr01	37776114	TT	AA	1946741258

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_13466_37776324	NC_021160.1	Ca_kabuli_chr01	37776324	AA	TT	1946741264
SNP_P4_13467_37776588	NC_021160.1	Ca_kabuli_chr01	37776588	CC	TT	1946741266
SNP_P4_13468_37776591	NC_021160.1	Ca_kabuli_chr01	37776591	CC	TT	1946741268
SNP_P4_13469_37776647	NC_021160.1	Ca_kabuli_chr01	37776647	GG	AA	1946741270
SNP_P4_13470_37776653	NC_021160.1	Ca_kabuli_chr01	37776653	TT	GG	1946741272
SNP_P4_13471_37776726	NC_021160.1	Ca_kabuli_chr01	37776726	GG	AA	1946741274
SNP_P4_13473_37777350	NC_021160.1	Ca_kabuli_chr01	37777350	TT	GG	1946741276
SNP_P4_13474_37777384	NC_021160.1	Ca_kabuli_chr01	37777384	CC	TT	1946741278
SNP_P4_13475_37777595	NC_021160.1	Ca_kabuli_chr01	37777595	GG	AA	1946741280
SNP_P4_13476_37777642	NC_021160.1	Ca_kabuli_chr01	37777642	TT	CC	1946741282
SNP_P4_13477_37777661	NC_021160.1	Ca_kabuli_chr01	37777661	GG	AA	1946741284
SNP_P4_13478_37780451	NC_021160.1	Ca_kabuli_chr01	37780451	CC	GG	1946741286
SNP_P4_13479_37780764	NC_021160.1	Ca_kabuli_chr01	37780764	TT	AA	1946741288
SNP_P4_13480_37780766	NC_021160.1	Ca_kabuli_chr01	37780766	TT	AA	1946741290
SNP_P4_13481_37780779	NC_021160.1	Ca_kabuli_chr01	37780779	TT	AA	1946741292
SNP_P4_13482_37780926	NC_021160.1	Ca_kabuli_chr01	37780926	GG	TT	1946741294
SNP_P4_13483_37780945	NC_021160.1	Ca_kabuli_chr01	37780945	AA	CC	1946741296
SNP_P4_13486_37783134	NC_021160.1	Ca_kabuli_chr01	37783134	CC	TT	1946741298
SNP_P4_13487_37783161	NC_021160.1	Ca_kabuli_chr01	37783161	AA	GG	1946741300
SNP_P4_13488_37783194	NC_021160.1	Ca_kabuli_chr01	37783194	CC	TT	1946741302
SNP_P4_13489_37783220	NC_021160.1	Ca_kabuli_chr01	37783220	AA	GG	1946741304
SNP_P4_13491_37783489	NC_021160.1	Ca_kabuli_chr01	37783489	GG	AA	1946741306
SNP_P4_13492_37783938	NC_021160.1	Ca_kabuli_chr01	37783938	CC	TT	1946741308
SNP_P4_13493_37783960	NC_021160.1	Ca_kabuli_chr01	37783960	CC	AA	1946741310
SNP_P4_13494_37784283	NC_021160.1	Ca_kabuli_chr01	37784283	TT	GG	1946741312
SNP_P4_13495_37786146	NC_021160.1	Ca_kabuli_chr01	37786146	TT	AA	1946741314
SNP_P4_13496_37796034	NC_021160.1	Ca_kabuli_chr01	37796034	GG	TT	1946741316
SNP_P4_13497_37796090	NC_021160.1	Ca_kabuli_chr01	37796090	TT	GG	1946741318
SNP_P4_13498_37797164	NC_021160.1	Ca_kabuli_chr01	37797164	AA	GG	1946741320
SNP_P4_13502_37798545	NC_021160.1	Ca_kabuli_chr01	37798545	CC	TT	1946741322
SNP_P4_13503_37798548	NC_021160.1	Ca_kabuli_chr01	37798548	AA	GG	1946741324
SNP_P4_13506_37799221	NC_021160.1	Ca_kabuli_chr01	37799221	GG	AA	1946741326
SNP_P4_13508_37799273	NC_021160.1	Ca_kabuli_chr01	37799273	GG	TT	1946741328
SNP_P4_13509_37799683	NC_021160.1	Ca_kabuli_chr01	37799683	AA	GG	1946741330
SNP_P4_13511_37800611	NC_021160.1	Ca_kabuli_chr01	37800611	GG	AA	1946741332
SNP_P4_13512_37800652	NC_021160.1	Ca_kabuli_chr01	37800652	GG	AA	1946741334
SNP_P4_13513_37800672	NC_021160.1	Ca_kabuli_chr01	37800672	TT	CC	1946741336
SNP_P4_13516_37803231	NC_021160.1	Ca_kabuli_chr01	37803231	AA	GG	1946741338
SNP_P4_13517_37803236	NC_021160.1	Ca_kabuli_chr01	37803236	AA	GG	1946741340
SNP_P4_13518_37803791	NC_021160.1	Ca_kabuli_chr01	37803791	CC	TT	1946741342

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_13520_37804160	NC_021160.1	Ca_kabuli_chr01	37804160	CC	TT	1946741346
SNP_P4_13521_37804197	NC_021160.1	Ca_kabuli_chr01	37804197	TT	AA	1946741348
SNP_P4_13522_37804335	NC_021160.1	Ca_kabuli_chr01	37804335	AA	GG	1946741350
SNP_P4_13523_37806053	NC_021160.1	Ca_kabuli_chr01	37806053	CC	TT	1946741352
SNP_P4_13524_37806382	NC_021160.1	Ca_kabuli_chr01	37806382	AA	GG	1946741354
SNP_P4_13525_37806569	NC_021160.1	Ca_kabuli_chr01	37806569	CC	TT	1946741356
SNP_P4_13526_37806723	NC_021160.1	Ca_kabuli_chr01	37806723	TT	CC	1946741358
SNP_P4_13527_37806734	NC_021160.1	Ca_kabuli_chr01	37806734	GG	AA	1946741360
SNP_P4_13528_37806940	NC_021160.1	Ca_kabuli_chr01	37806940	TT	GG	1946741362
SNP_P4_13529_37807508	NC_021160.1	Ca_kabuli_chr01	37807508	AA	GG	1946741364
SNP_P4_13530_37807530	NC_021160.1	Ca_kabuli_chr01	37807530	AA	TT	1946741366
SNP_P4_13531_37808497	NC_021160.1	Ca_kabuli_chr01	37808497	AA	CC	1946741368
SNP_P4_13532_37809597	NC_021160.1	Ca_kabuli_chr01	37809597	GG	AA	1946741370
SNP_P4_13536_37811935	NC_021160.1	Ca_kabuli_chr01	37811935	AA	TT	1946741372
SNP_P4_13538_37813045	NC_021160.1	Ca_kabuli_chr01	37813045	CC	TT	1946741374
SNP_P4_13539_37825975	NC_021160.1	Ca_kabuli_chr01	37825975	TT	AA	1946741376
SNP_P4_13540_37826884	NC_021160.1	Ca_kabuli_chr01	37826884	TT	CC	1946741378
SNP_P4_13541_37828082	NC_021160.1	Ca_kabuli_chr01	37828082	TT	CC	1946741380
SNP_P4_13542_37833058	NC_021160.1	Ca_kabuli_chr01	37833058	TT	CC	1946741382
SNP_P4_13544_37838211	NC_021160.1	Ca_kabuli_chr01	37838211	AA	GG	1946741384
SNP_P4_13545_37838518	NC_021160.1	Ca_kabuli_chr01	37838518	TT	AA	1946741386
SNP_P4_13546_37838783	NC_021160.1	Ca_kabuli_chr01	37838783	TT	CC	1946741388
SNP_P4_13547_37844672	NC_021160.1	Ca_kabuli_chr01	37844672	AA	TT	1946741390
SNP_P4_13548_37845614	NC_021160.1	Ca_kabuli_chr01	37845614	GG	TT	1946741392
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SNP_P4_13550_37847049	NC_021160.1	Ca_kabuli_chr01	37847049	GG	AA	1946741396
SNP_P4_13551_37849089	NC_021160.1	Ca_kabuli_chr01	37849089	CC	AA	1946741398
SNP_P4_13552_37850302	NC_021160.1	Ca_kabuli_chr01	37850302	CC	TT	1946741400
SNP_P4_13553_37850466	NC_021160.1	Ca_kabuli_chr01	37850466	TT	CC	1946741402
SNP_P4_13554_37850528	NC_021160.1	Ca_kabuli_chr01	37850528	TT	CC	1946741404
SNP_P4_13555_37850958	NC_021160.1	Ca_kabuli_chr01	37850958	GG	AA	1946741406
SNP_P4_13558_37851759	NC_021160.1	Ca_kabuli_chr01	37851759	TT	GG	1946741407
SNP_P4_13560_37854594	NC_021160.1	Ca_kabuli_chr01	37854594	AA	TT	1946741409
SNP_P4_13561_37855517	NC_021160.1	Ca_kabuli_chr01	37855517	GG	AA	1946741411
SNP_P4_13562_37863723	NC_021160.1	Ca_kabuli_chr01	37863723	GG	AA	1946741413
SNP_P4_13563_37866635	NC_021160.1	Ca_kabuli_chr01	37866635	TT	CC	1946741415
SNP_P4_13564_37866751	NC_021160.1	Ca_kabuli_chr01	37866751	AA	GG	1946741417
SNP_P4_13565_37867529	NC_021160.1	Ca_kabuli_chr01	37867529	TT	CC	1946741419
SNP_P4_13566_37867755	NC_021160.1	Ca_kabuli_chr01	37867755	AA	GG	1946741422
SNP_P4_13567_37868922	NC_021160.1	Ca_kabuli_chr01	37868922	TT	GG	1946741424
SNP_P4_13568_37869964	NC_021160.1	Ca_kabuli_chr01	37869964	GG	TT	1946741426

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_13570_37871773	NC_021160.1	Ca_kabuli_chr01	37871773	TT	CC	1946741430
SNP_P4_13572_37872279	NC_021160.1	Ca_kabuli_chr01	37872279	GG	AA	1946741432
SNP_P4_13573_37873345	NC_021160.1	Ca_kabuli_chr01	37873345	GG	AA	1946741434
SNP_P4_13574_37873471	NC_021160.1	Ca_kabuli_chr01	37873471	AA	TT	1946741436
SNP_P4_13575_37873484	NC_021160.1	Ca_kabuli_chr01	37873484	GG	TT	1946741438
SNP_P4_13576_37874700	NC_021160.1	Ca_kabuli_chr01	37874700	GG	CC	1946741440
SNP_P4_13577_37875267	NC_021160.1	Ca_kabuli_chr01	37875267	CC	TT	1946741442
SNP_P4_13580_37876208	NC_021160.1	Ca_kabuli_chr01	37876208	AA	GG	1946741444
SNP_P4_13581_37883999	NC_021160.1	Ca_kabuli_chr01	37883999	TT	CC	1946741446
SNP_P4_13582_37886951	NC_021160.1	Ca_kabuli_chr01	37886951	AA	TT	1946741448
SNP_P4_13584_37887825	NC_021160.1	Ca_kabuli_chr01	37887825	CC	GG	1946741450
SNP_P4_13585_37887840	NC_021160.1	Ca_kabuli_chr01	37887840	CC	TT	1946741452
SNP_P4_13586_37887846	NC_021160.1	Ca_kabuli_chr01	37887846	TT	CC	1946741454
SNP_P4_13587_37887878	NC_021160.1	Ca_kabuli_chr01	37887878	GG	AA	1946741456
SNP_P4_13588_37889429	NC_021160.1	Ca_kabuli_chr01	37889429	GG	AA	1946741458
SNP_P4_13589_37890344	NC_021160.1	Ca_kabuli_chr01	37890344	GG	TT	1946741460
SNP_P4_13590_37896780	NC_021160.1	Ca_kabuli_chr01	37896780	TT	CC	1946741462
SNP_P4_13591_37897238	NC_021160.1	Ca_kabuli_chr01	37897238	TT	CC	1946741464
SNP_P4_13592_37898836	NC_021160.1	Ca_kabuli_chr01	37898836	CC	TT	1946741466
SNP_P4_13593_37899075	NC_021160.1	Ca_kabuli_chr01	37899075	TT	CC	1946741468
SNP_P4_13594_37901776	NC_021160.1	Ca_kabuli_chr01	37901776	GG	AA	1946741470
SNP_P4_13595_37901829	NC_021160.1	Ca_kabuli_chr01	37901829	GG	AA	1946741472
SNP_P4_13596_37901893	NC_021160.1	Ca_kabuli_chr01	37901893	AA	TT	1946741474
SNP_P4_13597_37901897	NC_021160.1	Ca_kabuli_chr01	37901897	TT	GG	1946741476
SNP_P4_13598_37903293	NC_021160.1	Ca_kabuli_chr01	37903293	TT	CC	1946741478
SNP_P4_13599_37903462	NC_021160.1	Ca_kabuli_chr01	37903462	AA	GG	1946741480
SNP_P4_13600_37905397	NC_021160.1	Ca_kabuli_chr01	37905397	TT	CC	1946741482
SNP_P4_13601_37906467	NC_021160.1	Ca_kabuli_chr01	37906467	TT	AA	1946741484
SNP_P4_13602_37906643	NC_021160.1	Ca_kabuli_chr01	37906643	AA	TT	1946741486
SNP_P4_13603_37906763	NC_021160.1	Ca_kabuli_chr01	37906763	AA	CC	1946741488
SNP_P4_13604_37906800	NC_021160.1	Ca_kabuli_chr01	37906800	AA	GG	1946741490
SNP_P4_13605_37907062	NC_021160.1	Ca_kabuli_chr01	37907062	CC	TT	1946741492
SNP_P4_13606_37907415	NC_021160.1	Ca_kabuli_chr01	37907415	GG	TT	1946741494
SNP_P4_13607_37909716	NC_021160.1	Ca_kabuli_chr01	37909716	CC	AA	1946741496
SNP_P4_13608_37913504	NC_021160.1	Ca_kabuli_chr01	37913504	GG	AA	1946741498
SNP_P4_13609_37913600	NC_021160.1	Ca_kabuli_chr01	37913600	TT	AA	1946741500
SNP_P4_13611_37913690	NC_021160.1	Ca_kabuli_chr01	37913690	AA	CC	1946741502
SNP_P4_13612_37917528	NC_021160.1	Ca_kabuli_chr01	37917528	GG	CC	1946741504
SNP_P4_13613_37917563	NC_021160.1	Ca_kabuli_chr01	37917563	AA	TT	1946741506
SNP_P4_13614_37917571	NC_021160.1	Ca_kabuli_chr01	37917571	GG	AA	1946741508
SNP_P4_13615_37917700	NC_021160.1	Ca_kabuli_chr01	37917700	TT	AA	1946741510

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_13617_37917741	NC_021160.1	Ca_kabuli_chr01	37917741	TT	CC	1946741514
SNP_P4_13618_37917767	NC_021160.1	Ca_kabuli_chr01	37917767	AA	TT	1946741516
SNP_P4_13619_37917770	NC_021160.1	Ca_kabuli_chr01	37917770	AA	GG	1946741518
SNP_P4_13620_37917827	NC_021160.1	Ca_kabuli_chr01	37917827	GG	TT	1946741520
SNP_P4_13621_37917838	NC_021160.1	Ca_kabuli_chr01	37917838	CC	AA	1946741522
SNP_P4_13622_37917839	NC_021160.1	Ca_kabuli_chr01	37917839	TT	AA	1946741524
SNP_P4_13623_37917886	NC_021160.1	Ca_kabuli_chr01	37917886	AA	TT	1946741526
SNP_P4_13624_37917962	NC_021160.1	Ca_kabuli_chr01	37917962	GG	CC	1946741528
SNP_P4_13626_37918059	NC_021160.1	Ca_kabuli_chr01	37918059	TT	GG	1946741530
SNP_P4_13627_37918086	NC_021160.1	Ca_kabuli_chr01	37918086	TT	CC	1946741532
SNP_P4_13628_37918089	NC_021160.1	Ca_kabuli_chr01	37918089	TT	AA	1946741534
SNP_P4_13629_37918173	NC_021160.1	Ca_kabuli_chr01	37918173	AA	CC	1946741536
SNP_P4_13630_37918211	NC_021160.1	Ca_kabuli_chr01	37918211	TT	CC	1946741538
SNP_P4_13631_37918242	NC_021160.1	Ca_kabuli_chr01	37918242	TT	CC	1946741540
SNP_P4_13632_37918296	NC_021160.1	Ca_kabuli_chr01	37918296	CC	TT	1946741542
SNP_P4_13633_37925844	NC_021160.1	Ca_kabuli_chr01	37925844	AA	GG	1946741544
SNP_P4_13634_37925894	NC_021160.1	Ca_kabuli_chr01	37925894	TT	CC	1946741546
SNP_P4_13635_37925953	NC_021160.1	Ca_kabuli_chr01	37925953	AA	GG	1946741548
SNP_P4_13636_37925970	NC_021160.1	Ca_kabuli_chr01	37925970	GG	TT	1946741550
SNP_P4_13637_37925988	NC_021160.1	Ca_kabuli_chr01	37925988	TT	CC	1946741552
SNP_P4_13638_37926211	NC_021160.1	Ca_kabuli_chr01	37926211	AA	CC	1946741554
SNP_P4_13639_37927055	NC_021160.1	Ca_kabuli_chr01	37927055	GG	AA	1946741556
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SNP_P4_13641_37927110	NC_021160.1	Ca_kabuli_chr01	37927110	CC	TT	1946741560
SNP_P4_13642_37927127	NC_021160.1	Ca_kabuli_chr01	37927127	TT	CC	1946741562
SNP_P4_13643_37927130	NC_021160.1	Ca_kabuli_chr01	37927130	TT	GG	1946741564
SNP_P4_13644_37927207	NC_021160.1	Ca_kabuli_chr01	37927207	GG	AA	1946741566
SNP_P4_13645_37927227	NC_021160.1	Ca_kabuli_chr01	37927227	GG	AA	1946741568
SNP_P4_13646_37927230	NC_021160.1	Ca_kabuli_chr01	37927230	AA	GG	1946741570
SNP_P4_13647_37927234	NC_021160.1	Ca_kabuli_chr01	37927234	AA	GG	1946741572
SNP_P4_13648_37927235	NC_021160.1	Ca_kabuli_chr01	37927235	AA	GG	1946741574
SNP_P4_13649_37927252	NC_021160.1	Ca_kabuli_chr01	37927252	TT	CC	1946741576
SNP_P4_13650_37927306	NC_021160.1	Ca_kabuli_chr01	37927306	CC	GG	1946741578
SNP_P4_13652_37927384	NC_021160.1	Ca_kabuli_chr01	37927384	GG	CC	1946741580
SNP_P4_13653_37927393	NC_021160.1	Ca_kabuli_chr01	37927393	TT	AA	1946741582
SNP_P4_13654_37927577	NC_021160.1	Ca_kabuli_chr01	37927577	CC	GG	1946741584
SNP_P4_13655_37927609	NC_021160.1	Ca_kabuli_chr01	37927609	CC	GG	1946741586
SNP_P4_13656_37927658	NC_021160.1	Ca_kabuli_chr01	37927658	TT	AA	1946741588
SNP_P4_13657_37927679	NC_021160.1	Ca_kabuli_chr01	37927679	TT	CC	1946741590
SNP_P4_13658_37927711	NC_021160.1	Ca_kabuli_chr01	37927711	TT	AA	1946741592
SNP_P4_13659_37927731	NC_021160.1	Ca_kabuli_chr01	37927731	AA	CC	1946741594

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_13662_37927829	NC_021160.1	Ca_kabuli_chr01	37927829	AA	TT	1946741600
SNP_P4_13664_37927978	NC_021160.1	Ca_kabuli_chr01	37927978	GG	AA	1946741602
SNP_P4_13665_37928063	NC_021160.1	Ca_kabuli_chr01	37928063	TT	GG	1946741604
SNP_P4_13666_37928138	NC_021160.1	Ca_kabuli_chr01	37928138	CC	TT	1946741606
SNP_P4_13667_37928144	NC_021160.1	Ca_kabuli_chr01	37928144	CC	TT	1946741609
SNP_P4_13668_37928164	NC_021160.1	Ca_kabuli_chr01	37928164	AA	TT	1946741611
SNP_P4_13669_37928335	NC_021160.1	Ca_kabuli_chr01	37928335	CC	TT	1946741613
SNP_P4_13670_37928383	NC_021160.1	Ca_kabuli_chr01	37928383	CC	TT	1946741615
SNP_P4_13671_37928384	NC_021160.1	Ca_kabuli_chr01	37928384	GG	AA	1946741617
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SNP_P4_13673_37928617	NC_021160.1	Ca_kabuli_chr01	37928617	CC	AA	1946741621
SNP_P4_13674_37928649	NC_021160.1	Ca_kabuli_chr01	37928649	CC	TT	1946741622
SNP_P4_13675_37928712	NC_021160.1	Ca_kabuli_chr01	37928712	AA	GG	1946741624
SNP_P4_13676_37928849	NC_021160.1	Ca_kabuli_chr01	37928849	TT	CC	1946741626
SNP_P4_13678_37928887	NC_021160.1	Ca_kabuli_chr01	37928887	CC	TT	1946741628
SNP_P4_13679_37928919	NC_021160.1	Ca_kabuli_chr01	37928919	AA	CC	1946741630
SNP_P4_13680_37929028	NC_021160.1	Ca_kabuli_chr01	37929028	GG	TT	1946741632
SNP_P4_13681_37929079	NC_021160.1	Ca_kabuli_chr01	37929079	CC	AA	1946741634
SNP_P4_13682_37929215	NC_021160.1	Ca_kabuli_chr01	37929215	CC	TT	1946741636
SNP_P4_13683_37929221	NC_021160.1	Ca_kabuli_chr01	37929221	CC	GG	1946741638
SNP_P4_13684_37929247	NC_021160.1	Ca_kabuli_chr01	37929247	GG	TT	1946741640
SNP_P4_13685_37929322	NC_021160.1	Ca_kabuli_chr01	37929322	GG	TT	1946741642
SNP_P4_13686_37929608	NC_021160.1	Ca_kabuli_chr01	37929608	AA	GG	1946741644
SNP_P4_13687_37929621	NC_021160.1	Ca_kabuli_chr01	37929621	CC	AA	1946741646
SNP_P4_13688_37929639	NC_021160.1	Ca_kabuli_chr01	37929639	CC	GG	1946741648
SNP_P4_13689_37929641	NC_021160.1	Ca_kabuli_chr01	37929641	AA	GG	1946741650
SNP_P4_13691_37929689	NC_021160.1	Ca_kabuli_chr01	37929689	CC	TT	1946741652
SNP_P4_13693_37929749	NC_021160.1	Ca_kabuli_chr01	37929749	TT	GG	1946741654
SNP_P4_13695_37929847	NC_021160.1	Ca_kabuli_chr01	37929847	AA	TT	1946741656
SNP_P4_13696_37929865	NC_021160.1	Ca_kabuli_chr01	37929865	TT	CC	1946741658
SNP_P4_13697_37929913	NC_021160.1	Ca_kabuli_chr01	37929913	AA	TT	1946741660
SNP_P4_13698_37930022	NC_021160.1	Ca_kabuli_chr01	37930022	TT	AA	1946741662
SNP_P4_13699_37930023	NC_021160.1	Ca_kabuli_chr01	37930023	CC	AA	1946741664
SNP_P4_13700_37930051	NC_021160.1	Ca_kabuli_chr01	37930051	AA	TT	1946741666
SNP_P4_13701_37930064	NC_021160.1	Ca_kabuli_chr01	37930064	CC	AA	1946741668
SNP_P4_13702_37930199	NC_021160.1	Ca_kabuli_chr01	37930199	AA	TT	1946741670
SNP_P4_13703_37930205	NC_021160.1	Ca_kabuli_chr01	37930205	CC	TT	1946741672
SNP_P4_13704_37930255	NC_021160.1	Ca_kabuli_chr01	37930255	AA	GG	1946741674
SNP_P4_13705_37930303	NC_021160.1	Ca_kabuli_chr01	37930303	AA	GG	1946741676
SNP_P4_13706_37933132	NC_021160.1	Ca_kabuli_chr01	37933132	GG	AA	1946741678

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_13708_37935887	NC_021160.1	Ca_kabuli_chr01	37935887	AA	GG	1946741680
SNP_P4_13709_37936129	NC_021160.1	Ca_kabuli_chr01	37936129	GG	TT	1946741681
SNP_P4_13710_37948041	NC_021160.1	Ca_kabuli_chr01	37948041	CC	AA	1946741683
SNP_P4_13711_37948105	NC_021160.1	Ca_kabuli_chr01	37948105	CC	GG	1946741685
SNP_P4_13712_37948651	NC_021160.1	Ca_kabuli_chr01	37948651	AA	TT	1946741687
SNP_P4_13713_37948683	NC_021160.1	Ca_kabuli_chr01	37948683	CC	AA	1946741689
SNP_P4_13715_37954400	NC_021160.1	Ca_kabuli_chr01	37954400	CC	TT	1946741691
SNP_P4_13716_37954519	NC_021160.1	Ca_kabuli_chr01	37954519	TT	AA	1946741693
SNP_P4_13717_37954566	NC_021160.1	Ca_kabuli_chr01	37954566	CC	TT	1946741695
SNP_P4_13718_37954586	NC_021160.1	Ca_kabuli_chr01	37954586	AA	GG	1946741697
SNP_P4_13719_37954768	NC_021160.1	Ca_kabuli_chr01	37954768	TT	CC	1946741699
SNP_P4_13720_37954785	NC_021160.1	Ca_kabuli_chr01	37954785	TT	AA	1946741701
SNP_P4_13721_37954817	NC_021160.1	Ca_kabuli_chr01	37954817	AA	CC	1946741703
SNP_P4_13722_37954824	NC_021160.1	Ca_kabuli_chr01	37954824	TT	AA	1946741705
SNP_P4_13723_37959963	NC_021160.1	Ca_kabuli_chr01	37959963	AA	TT	1946741707
SNP_P4_13724_37966820	NC_021160.1	Ca_kabuli_chr01	37966820	TT	CC	1946741709
SNP_P4_13725_37966824	NC_021160.1	Ca_kabuli_chr01	37966824	TT	CC	1946741711
SNP_P4_13726_37966837	NC_021160.1	Ca_kabuli_chr01	37966837	CC	TT	1946741713
SNP_P4_13728_37993040	NC_021160.1	Ca_kabuli_chr01	37993040	TT	CC	1946741715
SNP_P4_13729_37993289	NC_021160.1	Ca_kabuli_chr01	37993289	TT	CC	1946741717
SNP_P4_13730_37993340	NC_021160.1	Ca_kabuli_chr01	37993340	GG	AA	1946741719
SNP_P4_13731_37993382	NC_021160.1	Ca_kabuli_chr01	37993382	CC	TT	1946741721
SNP_P4_13732_37993407	NC_021160.1	Ca_kabuli_chr01	37993407	AA	GG	1946741723
SNP_P4_13733_37993447	NC_021160.1	Ca_kabuli_chr01	37993447	CC	TT	1946741725
SNP_P4_13734_37993539	NC_021160.1	Ca_kabuli_chr01	37993539	AA	GG	1946741727
SNP_P4_13735_37993614	NC_021160.1	Ca_kabuli_chr01	37993614	CC	TT	1946741729
SNP_P4_13736_37993653	NC_021160.1	Ca_kabuli_chr01	37993653	GG	AA	1946741731
SNP_P4_13737_37993658	NC_021160.1	Ca_kabuli_chr01	37993658	CC	TT	1946741733
SNP_P4_13740_37993864	NC_021160.1	Ca_kabuli_chr01	37993864	AA	CC	1946741734
SNP_P4_13741_38022056	NC_021160.1	Ca_kabuli_chr01	38022056	TT	CC	1946741736
SNP_P4_13742_38022106	NC_021160.1	Ca_kabuli_chr01	38022106	AA	GG	1946741738
SNP_P4_13743_38022128	NC_021160.1	Ca_kabuli_chr01	38022128	AA	GG	1946741740
SNP_P4_13744_38022160	NC_021160.1	Ca_kabuli_chr01	38022160	GG	AA	1946741742
SNP_P4_13745_38022212	NC_021160.1	Ca_kabuli_chr01	38022212	GG	AA	1946741744
SNP_P4_13746_38022517	NC_021160.1	Ca_kabuli_chr01	38022517	CC	TT	1946741746
SNP_P4_13747_38022519	NC_021160.1	Ca_kabuli_chr01	38022519	GG	AA	1946741748
SNP_P4_13748_38022535	NC_021160.1	Ca_kabuli_chr01	38022535	GG	TT	1946741750
SNP_P4_13749_38022536	NC_021160.1	Ca_kabuli_chr01	38022536	CC	GG	1946741752
SNP_P4_13750_38022542	NC_021160.1	Ca_kabuli_chr01	38022542	CC	AA	1946741753
SNP_P4_13751_38022554	NC_021160.1	Ca_kabuli_chr01	38022554	CC	TT	1946741755
SNP_P4_13752_38024662	NC_021160.1	Ca_kabuli_chr01	38024662	GG	CC	1946741757
SNP_P4_13753_38024725	NC_021160.1	Ca_kabuli_chr01	38024725	AA	CC	1946741759

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_13754_38025039	NC_021160.1	Ca_kabuli_chr01	38025039	GG	TT	1946741761
SNP_P4_13755_38043025	NC_021160.1	Ca_kabuli_chr01	38043025	TT	GG	1946741763
SNP_P4_13756_38043029	NC_021160.1	Ca_kabuli_chr01	38043029	TT	GG	1946741765
SNP_P4_13758_38060296	NC_021160.1	Ca_kabuli_chr01	38060296	CC	TT	1946741767
SNP_P4_13759_38060299	NC_021160.1	Ca_kabuli_chr01	38060299	CC	TT	1946741769
SNP_P4_13760_38060323	NC_021160.1	Ca_kabuli_chr01	38060323	AA	GG	1946741770
SNP_P4_13761_38063111	NC_021160.1	Ca_kabuli_chr01	38063111	GG	CC	1946741772
SNP_P4_13762_38063113	NC_021160.1	Ca_kabuli_chr01	38063113	AA	GG	1946741774
SNP_P4_13763_38063138	NC_021160.1	Ca_kabuli_chr01	38063138	CC	AA	1946741776
SNP_P4_13764_38063189	NC_021160.1	Ca_kabuli_chr01	38063189	CC	TT	1946741778
SNP_P4_13765_38063361	NC_021160.1	Ca_kabuli_chr01	38063361	AA	GG	1946741780
SNP_P4_13767_38065005	NC_021160.1	Ca_kabuli_chr01	38065005	GG	AA	1946741782
SNP_P4_13768_38065060	NC_021160.1	Ca_kabuli_chr01	38065060	GG	AA	1946741784
SNP_P4_13769_38065284	NC_021160.1	Ca_kabuli_chr01	38065284	TT	CC	1946741786
SNP_P4_13770_38065291	NC_021160.1	Ca_kabuli_chr01	38065291	GG	TT	1946741788
SNP_P4_13771_38065884	NC_021160.1	Ca_kabuli_chr01	38065884	AA	GG	1946741789
SNP_P4_13772_38066127	NC_021160.1	Ca_kabuli_chr01	38066127	CC	GG	1946741792
SNP_P4_13773_38066224	NC_021160.1	Ca_kabuli_chr01	38066224	GG	AA	1946741794
SNP_P4_13774_38066236	NC_021160.1	Ca_kabuli_chr01	38066236	CC	GG	1946741796
SNP_P4_13775_38066629	NC_021160.1	Ca_kabuli_chr01	38066629	TT	GG	1946741798
SNP_P4_13776_38066745	NC_021160.1	Ca_kabuli_chr01	38066745	TT	CC	1946741800
SNP_P4_13778_38067177	NC_021160.1	Ca_kabuli_chr01	38067177	AA	TT	1946741801
SNP_P4_13779_38067288	NC_021160.1	Ca_kabuli_chr01	38067288	AA	CC	1946741803
SNP_P4_13780_38067743	NC_021160.1	Ca_kabuli_chr01	38067743	GG	AA	1946741805
SNP_P4_13781_38069516	NC_021160.1	Ca_kabuli_chr01	38069516	GG	AA	1946741807
SNP_P4_13782_38069719	NC_021160.1	Ca_kabuli_chr01	38069719	GG	TT	1946741809
SNP_P4_13783_38069896	NC_021160.1	Ca_kabuli_chr01	38069896	CC	TT	1946741811
SNP_P4_13784_38069917	NC_021160.1	Ca_kabuli_chr01	38069917	AA	GG	1946741813
SNP_P4_13785_38070062	NC_021160.1	Ca_kabuli_chr01	38070062	AA	TT	1946741815
SNP_P4_13786_38070572	NC_021160.1	Ca_kabuli_chr01	38070572	CC	GG	1946741816
SNP_P4_13787_38070584	NC_021160.1	Ca_kabuli_chr01	38070584	TT	GG	1946741818
SNP_P4_13789_38070843	NC_021160.1	Ca_kabuli_chr01	38070843	TT	CC	1946741820
SNP_P4_13792_38071652	NC_021160.1	Ca_kabuli_chr01	38071652	TT	CC	1946741822
SNP_P4_13793_38071897	NC_021160.1	Ca_kabuli_chr01	38071897	GG	AA	1946741824
SNP_P4_13794_38089084	NC_021160.1	Ca_kabuli_chr01	38089084	AA	GG	1946741826
SNP_P4_13795_38090291	NC_021160.1	Ca_kabuli_chr01	38090291	AA	CC	1946741828
SNP_P4_13796_38090340	NC_021160.1	Ca_kabuli_chr01	38090340	TT	CC	1946741830
SNP_P4_13797_38090589	NC_021160.1	Ca_kabuli_chr01	38090589	TT	CC	1946741832
SNP_P4_13800_38104534	NC_021160.1	Ca_kabuli_chr01	38104534	TT	AA	1946741834
SNP_P4_13801_38104951	NC_021160.1	Ca_kabuli_chr01	38104951	CC	GG	1946741836
SNP_P4_13802_38105170	NC_021160.1	Ca_kabuli_chr01	38105170	GG	AA	1946741838
SNP_P4_13803_38105220	NC_021160.1	Ca_kabuli_chr01	38105220	TT	CC	1946741840

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_13805_38105410	NC_021160.1	Ca_kabuli_chr01	38105410	AA	GG	1946741843
SNP_P4_13806_38105429	NC_021160.1	Ca_kabuli_chr01	38105429	CC	TT	1946741845
SNP_P4_13807_38105493	NC_021160.1	Ca_kabuli_chr01	38105493	CC	GG	1946741847
SNP_P4_13808_38105718	NC_021160.1	Ca_kabuli_chr01	38105718	CC	GG	1946741849
SNP_P4_13809_38105901	NC_021160.1	Ca_kabuli_chr01	38105901	TT	GG	1946741851
SNP_P4_13810_38105937	NC_021160.1	Ca_kabuli_chr01	38105937	TT	GG	1946741853
SNP_P4_13811_38105996	NC_021160.1	Ca_kabuli_chr01	38105996	GG	AA	1946741855
SNP_P4_13813_38106104	NC_021160.1	Ca_kabuli_chr01	38106104	CC	AA	1946741857
SNP_P4_13814_38106513	NC_021160.1	Ca_kabuli_chr01	38106513	TT	CC	1946741859
SNP_P4_13815_38107249	NC_021160.1	Ca_kabuli_chr01	38107249	GG	AA	1946741861
SNP_P4_13816_38107320	NC_021160.1	Ca_kabuli_chr01	38107320	AA	GG	1946741863
SNP_P4_13817_38107588	NC_021160.1	Ca_kabuli_chr01	38107588	GG	AA	1946741865
SNP_P4_13818_38107594	NC_021160.1	Ca_kabuli_chr01	38107594	TT	AA	1946741867
SNP_P4_13820_38108641	NC_021160.1	Ca_kabuli_chr01	38108641	AA	GG	1946741869
SNP_P4_13821_38108651	NC_021160.1	Ca_kabuli_chr01	38108651	AA	CC	1946741871
SNP_P4_13822_38108662	NC_021160.1	Ca_kabuli_chr01	38108662	GG	TT	1946741873
SNP_P4_13823_38108672	NC_021160.1	Ca_kabuli_chr01	38108672	GG	TT	1946741875
SNP_P4_13824_38108908	NC_021160.1	Ca_kabuli_chr01	38108908	AA	GG	1946741877
SNP_P4_13825_38109129	NC_021160.1	Ca_kabuli_chr01	38109129	GG	CC	1946741878
SNP_P4_13826_38111194	NC_021160.1	Ca_kabuli_chr01	38111194	GG	TT	1946741880
SNP_P4_13827_38112722	NC_021160.1	Ca_kabuli_chr01	38112722	AA	GG	1946741882
SNP_P4_13828_38113610	NC_021160.1	Ca_kabuli_chr01	38113610	CC	GG	1946741884
SNP_P4_13829_38113681	NC_021160.1	Ca_kabuli_chr01	38113681	AA	GG	1946741886
SNP_P4_13830_38114909	NC_021160.1	Ca_kabuli_chr01	38114909	TT	GG	1946741888
SNP_P4_13831_38115526	NC_021160.1	Ca_kabuli_chr01	38115526	AA	GG	1946741890
SNP_P4_13832_38115553	NC_021160.1	Ca_kabuli_chr01	38115553	TT	GG	1946741892
SNP_P4_13833_38115780	NC_021160.1	Ca_kabuli_chr01	38115780	CC	TT	1946741894
SNP_P4_13834_38115814	NC_021160.1	Ca_kabuli_chr01	38115814	GG	AA	1946741896
SNP_P4_13835_38115816	NC_021160.1	Ca_kabuli_chr01	38115816	CC	GG	1946741898
SNP_P4_13836_38115864	NC_021160.1	Ca_kabuli_chr01	38115864	CC	TT	1946741900
SNP_P4_13837_38116430	NC_021160.1	Ca_kabuli_chr01	38116430	CC	TT	1946741901
SNP_P4_13838_38116437	NC_021160.1	Ca_kabuli_chr01	38116437	GG	AA	1946741903
SNP_P4_13839_38116457	NC_021160.1	Ca_kabuli_chr01	38116457	TT	GG	1946741905
SNP_P4_13840_38116458	NC_021160.1	Ca_kabuli_chr01	38116458	CC	TT	1946741907
SNP_P4_13841_38116465	NC_021160.1	Ca_kabuli_chr01	38116465	TT	GG	1946741909
SNP_P4_13842_38116646	NC_021160.1	Ca_kabuli_chr01	38116646	CC	AA	1946741911
SNP_P4_13843_38116751	NC_021160.1	Ca_kabuli_chr01	38116751	GG	AA	1946741913
SNP_P4_13844_38116753	NC_021160.1	Ca_kabuli_chr01	38116753	TT	CC	1946741915
SNP_P4_13845_38116757	NC_021160.1	Ca_kabuli_chr01	38116757	AA	GG	1946741917
SNP_P4_13846_38116789	NC_021160.1	Ca_kabuli_chr01	38116789	GG	TT	1946741919
SNP_P4_13847_38123325	NC_021160.1	Ca_kabuli_chr01	38123325	CC	TT	1946741920

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_13849_38124547	NC_021160.1	Ca_kabuli_chr01	38124547	TT	GG	1946741924
SNP_P4_13850_38125169	NC_021160.1	Ca_kabuli_chr01	38125169	GG	CC	1946741926
SNP_P4_13851_38125229	NC_021160.1	Ca_kabuli_chr01	38125229	CC	GG	1946741928
SNP_P4_13852_38125655	NC_021160.1	Ca_kabuli_chr01	38125655	TT	CC	1946741930
SNP_P4_13853_38125700	NC_021160.1	Ca_kabuli_chr01	38125700	AA	GG	1946741932
SNP_P4_13854_38125855	NC_021160.1	Ca_kabuli_chr01	38125855	AA	GG	1946741934
SNP_P4_13855_38125868	NC_021160.1	Ca_kabuli_chr01	38125868	TT	CC	1946741936
SNP_P4_13856_38126174	NC_021160.1	Ca_kabuli_chr01	38126174	CC	GG	1946741938
SNP_P4_13857_38126183	NC_021160.1	Ca_kabuli_chr01	38126183	CC	TT	1946741940
SNP_P4_13858_38126506	NC_021160.1	Ca_kabuli_chr01	38126506	GG	AA	1946741942
SNP_P4_13859_38126753	NC_021160.1	Ca_kabuli_chr01	38126753	AA	GG	1946741944
SNP_P4_13860_38127001	NC_021160.1	Ca_kabuli_chr01	38127001	TT	CC	1946741946
SNP_P4_13861_38127026	NC_021160.1	Ca_kabuli_chr01	38127026	CC	TT	1946741948
SNP_P4_13862_38127199	NC_021160.1	Ca_kabuli_chr01	38127199	CC	AA	1946741950
SNP_P4_13863_38127229	NC_021160.1	Ca_kabuli_chr01	38127229	GG	AA	1946741952
SNP_P4_13864_38127278	NC_021160.1	Ca_kabuli_chr01	38127278	GG	AA	1946741954
SNP_P4_13865_38127831	NC_021160.1	Ca_kabuli_chr01	38127831	GG	CC	1946741956
SNP_P4_13866_38127832	NC_021160.1	Ca_kabuli_chr01	38127832	AA	CC	1946741958
SNP_P4_13867_38128184	NC_021160.1	Ca_kabuli_chr01	38128184	TT	GG	1946741960
SNP_P4_13868_38130221	NC_021160.1	Ca_kabuli_chr01	38130221	GG	AA	1946741962
SNP_P4_13870_38130568	NC_021160.1	Ca_kabuli_chr01	38130568	GG	TT	1946741964
SNP_P4_13871_38130573	NC_021160.1	Ca_kabuli_chr01	38130573	TT	CC	1946741966
SNP_P4_13872_38130613	NC_021160.1	Ca_kabuli_chr01	38130613	AA	CC	1946741968
SNP_P4_13873_38131393	NC_021160.1	Ca_kabuli_chr01	38131393	TT	CC	1946741970
SNP_P4_13874_38131484	NC_021160.1	Ca_kabuli_chr01	38131484	AA	GG	1946741972
SNP_P4_13875_38131511	NC_021160.1	Ca_kabuli_chr01	38131511	CC	TT	1946741974
SNP_P4_13876_38131535	NC_021160.1	Ca_kabuli_chr01	38131535	GG	AA	1946741976
SNP_P4_13878_38131615	NC_021160.1	Ca_kabuli_chr01	38131615	TT	AA	1946741978
SNP_P4_13879_38131670	NC_021160.1	Ca_kabuli_chr01	38131670	GG	CC	1946741980
SNP_P4_13880_38131844	NC_021160.1	Ca_kabuli_chr01	38131844	CC	GG	1946741982
SNP_P4_13881_38131845	NC_021160.1	Ca_kabuli_chr01	38131845	TT	AA	1946741984
SNP_P4_13882_38132652	NC_021160.1	Ca_kabuli_chr01	38132652	TT	CC	1946741986
SNP_P4_13883_38132765	NC_021160.1	Ca_kabuli_chr01	38132765	GG	AA	1946741988
SNP_P4_13884_38133153	NC_021160.1	Ca_kabuli_chr01	38133153	AA	CC	1946741990
SNP_P4_13885_38133192	NC_021160.1	Ca_kabuli_chr01	38133192	AA	GG	1946741992
SNP_P4_13886_38133237	NC_021160.1	Ca_kabuli_chr01	38133237	TT	CC	1946741994
SNP_P4_13887_38133551	NC_021160.1	Ca_kabuli_chr01	38133551	AA	CC	1946741996
SNP_P4_13888_38133763	NC_021160.1	Ca_kabuli_chr01	38133763	TT	CC	1946741998
SNP_P4_13889_38134091	NC_021160.1	Ca_kabuli_chr01	38134091	GG	TT	1946742000
SNP_P4_13890_38134339	NC_021160.1	Ca_kabuli_chr01	38134339	AA	GG	1946742002
SNP_P4_13891_38135937	NC_021160.1	Ca_kabuli_chr01	38135937	GG	TT	1946742004

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_13893_38139564	NC_021160.1	Ca_kabuli_chr01	38139564	GG	AA	1946742008
SNP_P4_13894_38141431	NC_021160.1	Ca_kabuli_chr01	38141431	GG	AA	1946742010
SNP_P4_13896_38141856	NC_021160.1	Ca_kabuli_chr01	38141856	TT	AA	1946742012
SNP_P4_13897_38142477	NC_021160.1	Ca_kabuli_chr01	38142477	CC	AA	1946742014
SNP_P4_13898_38142479	NC_021160.1	Ca_kabuli_chr01	38142479	AA	GG	1946742016
SNP_P4_13899_38142564	NC_021160.1	Ca_kabuli_chr01	38142564	CC	AA	1946742018
SNP_P4_13900_38142567	NC_021160.1	Ca_kabuli_chr01	38142567	AA	TT	1946742020
SNP_P4_13901_38142751	NC_021160.1	Ca_kabuli_chr01	38142751	GG	AA	1946742022
SNP_P4_13902_38143397	NC_021160.1	Ca_kabuli_chr01	38143397	GG	AA	1946742024
SNP_P4_13903_38143625	NC_021160.1	Ca_kabuli_chr01	38143625	TT	CC	1946742026
SNP_P4_13904_38143745	NC_021160.1	Ca_kabuli_chr01	38143745	AA	GG	1946742028
SNP_P4_13906_38143897	NC_021160.1	Ca_kabuli_chr01	38143897	TT	CC	1946742030
SNP_P4_13907_38143938	NC_021160.1	Ca_kabuli_chr01	38143938	AA	GG	1946742032
SNP_P4_13909_38147925	NC_021160.1	Ca_kabuli_chr01	38147925	GG	AA	1946742034
SNP_P4_13910_38148057	NC_021160.1	Ca_kabuli_chr01	38148057	AA	TT	1946742036
SNP_P4_13912_38148248	NC_021160.1	Ca_kabuli_chr01	38148248	TT	CC	1946742038
SNP_P4_13913_38148287	NC_021160.1	Ca_kabuli_chr01	38148287	TT	GG	1946742040
SNP_P4_13914_38148421	NC_021160.1	Ca_kabuli_chr01	38148421	CC	TT	1946742042
SNP_P4_13915_38148541	NC_021160.1	Ca_kabuli_chr01	38148541	AA	TT	1946742044
SNP_P4_13917_38150454	NC_021160.1	Ca_kabuli_chr01	38150454	GG	AA	1946742046
SNP_P4_13918_38150719	NC_021160.1	Ca_kabuli_chr01	38150719	TT	CC	1946742048
SNP_P4_13919_38150943	NC_021160.1	Ca_kabuli_chr01	38150943	AA	CC	1946742050
SNP_P4_13920_38161637	NC_021160.1	Ca_kabuli_chr01	38161637	CC	TT	1946742052
SNP_P4_13921_38169314	NC_021160.1	Ca_kabuli_chr01	38169314	GG	AA	1946742054
SNP_P4_13923_38177665	NC_021160.1	Ca_kabuli_chr01	38177665	CC	TT	1946742056
SNP_P4_13924_38177701	NC_021160.1	Ca_kabuli_chr01	38177701	AA	CC	1946742058
SNP_P4_13925_38177771	NC_021160.1	Ca_kabuli_chr01	38177771	TT	AA	1946742060
SNP_P4_13926_38177793	NC_021160.1	Ca_kabuli_chr01	38177793	GG	AA	1946742062
SNP_P4_13927_38177851	NC_021160.1	Ca_kabuli_chr01	38177851	CC	TT	1946742064
SNP_P4_13928_38177859	NC_021160.1	Ca_kabuli_chr01	38177859	AA	GG	1946742066
SNP_P4_13929_38178374	NC_021160.1	Ca_kabuli_chr01	38178374	TT	AA	1946742068
SNP_P4_13930_38179741	NC_021160.1	Ca_kabuli_chr01	38179741	TT	CC	1946742070
SNP_P4_13931_38179770	NC_021160.1	Ca_kabuli_chr01	38179770	AA	GG	1946742072
SNP_P4_13932_38179886	NC_021160.1	Ca_kabuli_chr01	38179886	TT	CC	1946742074
SNP_P4_13933_38179898	NC_021160.1	Ca_kabuli_chr01	38179898	GG	AA	1946742076
SNP_P4_13934_38180132	NC_021160.1	Ca_kabuli_chr01	38180132	TT	CC	1946742078
SNP_P4_13935_38180189	NC_021160.1	Ca_kabuli_chr01	38180189	CC	TT	1946742080
SNP_P4_13936_38180877	NC_021160.1	Ca_kabuli_chr01	38180877	TT	CC	1946742082
SNP_P4_13937_38182506	NC_021160.1	Ca_kabuli_chr01	38182506	TT	AA	1946742084
SNP_P4_13938_38182743	NC_021160.1	Ca_kabuli_chr01	38182743	GG	AA	1946742086
SNP_P4_13939_38182752	NC_021160.1	Ca_kabuli_chr01	38182752	GG	AA	1946742088

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_13941_38184232	NC_021160.1	Ca_kabuli_chr01	38184232	AA	GG	1946742092
SNP_P4_13942_38184254	NC_021160.1	Ca_kabuli_chr01	38184254	TT	CC	1946742094
SNP_P4_13944_38184336	NC_021160.1	Ca_kabuli_chr01	38184336	TT	AA	1946742096
SNP_P4_13945_38184730	NC_021160.1	Ca_kabuli_chr01	38184730	CC	TT	1946742098
SNP_P4_13947_38184791	NC_021160.1	Ca_kabuli_chr01	38184791	GG	AA	1946742100
SNP_P4_13948_38184987	NC_021160.1	Ca_kabuli_chr01	38184987	AA	TT	1946742102
SNP_P4_13950_38186180	NC_021160.1	Ca_kabuli_chr01	38186180	TT	CC	1946742104
SNP_P4_13951_38186183	NC_021160.1	Ca_kabuli_chr01	38186183	TT	AA	1946742106
SNP_P4_13952_38186569	NC_021160.1	Ca_kabuli_chr01	38186569	CC	TT	1946742108
SNP_P4_13953_38186771	NC_021160.1	Ca_kabuli_chr01	38186771	AA	GG	1946742110
SNP_P4_13954_38188804	NC_021160.1	Ca_kabuli_chr01	38188804	TT	CC	1946742112
SNP_P4_13955_38189263	NC_021160.1	Ca_kabuli_chr01	38189263	TT	CC	1946742114
SNP_P4_13956_38189317	NC_021160.1	Ca_kabuli_chr01	38189317	GG	TT	1946742116
SNP_P4_13957_38190699	NC_021160.1	Ca_kabuli_chr01	38190699	AA	GG	1946742118
SNP_P4_13958_38191098	NC_021160.1	Ca_kabuli_chr01	38191098	GG	TT	1946742120
SNP_P4_13959_38191138	NC_021160.1	Ca_kabuli_chr01	38191138	GG	CC	1946742122
SNP_P4_13960_38191354	NC_021160.1	Ca_kabuli_chr01	38191354	TT	CC	1946742123
SNP_P4_13961_38192524	NC_021160.1	Ca_kabuli_chr01	38192524	AA	GG	1946742125
SNP_P4_13962_38192562	NC_021160.1	Ca_kabuli_chr01	38192562	CC	TT	1946742127
SNP_P4_13963_38192702	NC_021160.1	Ca_kabuli_chr01	38192702	AA	GG	1946742129
SNP_P4_13965_38194133	NC_021160.1	Ca_kabuli_chr01	38194133	GG	AA	1946742131
SNP_P4_13966_38194323	NC_021160.1	Ca_kabuli_chr01	38194323	AA	TT	1946742133
SNP_P4_13967_38195508	NC_021160.1	Ca_kabuli_chr01	38195508	CC	AA	1946742135
SNP_P4_13969_38196249	NC_021160.1	Ca_kabuli_chr01	38196249	GG	AA	1946742138
SNP_P4_13971_38196298	NC_021160.1	Ca_kabuli_chr01	38196298	CC	AA	1946742140
SNP_P4_13972_38201503	NC_021160.1	Ca_kabuli_chr01	38201503	TT	CC	1946742142
SNP_P4_13973_38201635	NC_021160.1	Ca_kabuli_chr01	38201635	TT	CC	1946742144
SNP_P4_13974_38201951	NC_021160.1	Ca_kabuli_chr01	38201951	AA	GG	1946742146
SNP_P4_13975_38201970	NC_021160.1	Ca_kabuli_chr01	38201970	TT	AA	1946742148
SNP_P4_13976_38201975	NC_021160.1	Ca_kabuli_chr01	38201975	GG	AA	1946742150
SNP_P4_13977_38201988	NC_021160.1	Ca_kabuli_chr01	38201988	TT	CC	1946742152
SNP_P4_13978_38202077	NC_021160.1	Ca_kabuli_chr01	38202077	TT	CC	1946742154
SNP_P4_13979_38203110	NC_021160.1	Ca_kabuli_chr01	38203110	AA	GG	1946742156
SNP_P4_13980_38203391	NC_021160.1	Ca_kabuli_chr01	38203391	CC	GG	1946742158
SNP_P4_13981_38203449	NC_021160.1	Ca_kabuli_chr01	38203449	CC	AA	1946742160
SNP_P4_13982_38214881	NC_021160.1	Ca_kabuli_chr01	38214881	CC	GG	1946742162
SNP_P4_13983_38214884	NC_021160.1	Ca_kabuli_chr01	38214884	AA	TT	1946742164
SNP_P4_13984_38214944	NC_021160.1	Ca_kabuli_chr01	38214944	GG	AA	1946742166
SNP_P4_13985_38215903	NC_021160.1	Ca_kabuli_chr01	38215903	TT	CC	1946742168
SNP_P4_13986_38215928	NC_021160.1	Ca_kabuli_chr01	38215928	TT	CC	1946742170
SNP_P4_13987_38217481	NC_021160.1	Ca_kabuli_chr01	38217481	AA	TT	1946742172

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_13990_38226178	NC_021160.1	Ca_kabuli_chr01	38226178	TT	AA	1946742176
SNP_P4_13991_38226400	NC_021160.1	Ca_kabuli_chr01	38226400	CC	GG	1946742178
SNP_P4_13992_38226440	NC_021160.1	Ca_kabuli_chr01	38226440	AA	GG	1946742180
SNP_P4_13993_38227095	NC_021160.1	Ca_kabuli_chr01	38227095	GG	AA	1946742182
SNP_P4_13995_38227463	NC_021160.1	Ca_kabuli_chr01	38227463	CC	GG	1946742184
SNP_P4_13996_38228160	NC_021160.1	Ca_kabuli_chr01	38228160	TT	CC	1946742186
SNP_P4_13997_38228452	NC_021160.1	Ca_kabuli_chr01	38228452	TT	CC	1946742188
SNP_P4_13998_38228604	NC_021160.1	Ca_kabuli_chr01	38228604	GG	CC	1946742190
SNP_P4_13999_38228612	NC_021160.1	Ca_kabuli_chr01	38228612	GG	TT	1946742193
SNP_P4_14000_38228784	NC_021160.1	Ca_kabuli_chr01	38228784	CC	TT	1946742195
SNP_P4_14001_38229144	NC_021160.1	Ca_kabuli_chr01	38229144	CC	AA	1946742197
SNP_P4_14002_38230861	NC_021160.1	Ca_kabuli_chr01	38230861	AA	GG	1946742199
SNP_P4_14003_38231189	NC_021160.1	Ca_kabuli_chr01	38231189	CC	TT	1946742201
SNP_P4_14004_38231263	NC_021160.1	Ca_kabuli_chr01	38231263	AA	CC	1946742203
SNP_P4_14005_38231478	NC_021160.1	Ca_kabuli_chr01	38231478	AA	CC	1946742205
SNP_P4_14006_38236290	NC_021160.1	Ca_kabuli_chr01	38236290	TT	AA	1946742207
SNP_P4_14007_38236292	NC_021160.1	Ca_kabuli_chr01	38236292	GG	TT	1946742209
SNP_P4_14008_38236315	NC_021160.1	Ca_kabuli_chr01	38236315	CC	TT	1946742211
SNP_P4_14010_38236560	NC_021160.1	Ca_kabuli_chr01	38236560	TT	AA	1946742213
SNP_P4_14011_38236572	NC_021160.1	Ca_kabuli_chr01	38236572	TT	GG	1946742215
SNP_P4_14012_38236639	NC_021160.1	Ca_kabuli_chr01	38236639	TT	CC	1946742217
SNP_P4_14013_38236654	NC_021160.1	Ca_kabuli_chr01	38236654	TT	GG	1946742219
SNP_P4_14014_38236675	NC_021160.1	Ca_kabuli_chr01	38236675	AA	CC	1946742221
SNP_P4_14015_38236681	NC_021160.1	Ca_kabuli_chr01	38236681	GG	AA	1946742223
SNP_P4_14016_38236853	NC_021160.1	Ca_kabuli_chr01	38236853	CC	AA	1946742225
SNP_P4_14017_38236863	NC_021160.1	Ca_kabuli_chr01	38236863	GG	TT	1946742227
SNP_P4_14018_38237001	NC_021160.1	Ca_kabuli_chr01	38237001	GG	CC	1946742229
SNP_P4_14019_38239825	NC_021160.1	Ca_kabuli_chr01	38239825	CC	TT	1946742231
SNP_P4_14020_38240107	NC_021160.1	Ca_kabuli_chr01	38240107	TT	AA	1946742233
SNP_P4_14021_38240194	NC_021160.1	Ca_kabuli_chr01	38240194	TT	CC	1946742235
SNP_P4_14022_38240826	NC_021160.1	Ca_kabuli_chr01	38240826	AA	GG	1946742237
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SNP_P4_14024_38242060	NC_021160.1	Ca_kabuli_chr01	38242060	TT	GG	1946742241
SNP_P4_14025_38242066	NC_021160.1	Ca_kabuli_chr01	38242066	TT	CC	1946742243
SNP_P4_14026_38242118	NC_021160.1	Ca_kabuli_chr01	38242118	TT	GG	1946742245
SNP_P4_14027_38242133	NC_021160.1	Ca_kabuli_chr01	38242133	CC	TT	1946742248
SNP_P4_14029_38242205	NC_021160.1	Ca_kabuli_chr01	38242205	CC	TT	1946742250
SNP_P4_14030_38242415	NC_021160.1	Ca_kabuli_chr01	38242415	AA	GG	1946742252
SNP_P4_14031_38242479	NC_021160.1	Ca_kabuli_chr01	38242479	AA	GG	1946742254
SNP_P4_14032_38242497	NC_021160.1	Ca_kabuli_chr01	38242497	TT	CC	1946742256
SNP_P4_14033_38243647	NC_021160.1	Ca_kabuli_chr01	38243647	GG	TT	1946742258

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_14036_38246933	NC_021160.1	Ca_kabuli_chr01	38246933	AA	GG	1946742262
SNP_P4_14037_38247143	NC_021160.1	Ca_kabuli_chr01	38247143	AA	CC	1946742264
SNP_P4_14038_38247170	NC_021160.1	Ca_kabuli_chr01	38247170	CC	TT	1946742266
SNP_P4_14039_38248668	NC_021160.1	Ca_kabuli_chr01	38248668	GG	CC	1946742268
SNP_P4_14040_38249074	NC_021160.1	Ca_kabuli_chr01	38249074	GG	AA	1946742270
SNP_P4_14041_38249320	NC_021160.1	Ca_kabuli_chr01	38249320	CC	TT	1946742272
SNP_P4_14042_38249451	NC_021160.1	Ca_kabuli_chr01	38249451	TT	CC	1946742275
SNP_P4_14043_38249742	NC_021160.1	Ca_kabuli_chr01	38249742	AA	TT	1946742277
SNP_P4_14044_38250403	NC_021160.1	Ca_kabuli_chr01	38250403	AA	GG	1946742279
SNP_P4_14045_38250749	NC_021160.1	Ca_kabuli_chr01	38250749	CC	AA	1946742281
SNP_P4_14046_38251281	NC_021160.1	Ca_kabuli_chr01	38251281	AA	CC	1946742283
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SNP_P4_14049_38261860	NC_021160.1	Ca_kabuli_chr01	38261860	CC	TT	1946742289
SNP_P4_14050_38261923	NC_021160.1	Ca_kabuli_chr01	38261923	AA	GG	1946742291
SNP_P4_14051_38262374	NC_021160.1	Ca_kabuli_chr01	38262374	AA	GG	1946742293
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SNP_P4_14057_38263381	NC_021160.1	Ca_kabuli_chr01	38263381	CC	TT	1946742305
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SNP_P4_14066_38272523	NC_021160.1	Ca_kabuli_chr01	38272523	GG	AA	1946742321
SNP_P4_14067_38273910	NC_021160.1	Ca_kabuli_chr01	38273910	TT	AA	1946742323
SNP_P4_14068_38273911	NC_021160.1	Ca_kabuli_chr01	38273911	TT	AA	1946742325
SNP_P4_14069_38274100	NC_021160.1	Ca_kabuli_chr01	38274100	TT	AA	1946742327
SNP_P4_14070_38274224	NC_021160.1	Ca_kabuli_chr01	38274224	TT	AA	1946742329
SNP_P4_14071_38274278	NC_021160.1	Ca_kabuli_chr01	38274278	AA	TT	1946742331
SNP_P4_14072_38274292	NC_021160.1	Ca_kabuli_chr01	38274292	TT	GG	1946742333
SNP_P4_14073_38277219	NC_021160.1	Ca_kabuli_chr01	38277219	TT	CC	1946742335
SNP_P4_14074_38277890	NC_021160.1	Ca_kabuli_chr01	38277890	TT	GG	1946742337
SNP_P4_14075_38278488	NC_021160.1	Ca_kabuli_chr01	38278488	TT	AA	1946742339
SNP_P4_14077_38281887	NC_021160.1	Ca_kabuli_chr01	38281887	GG	AA	1946742341
SNP_P4_14079_38282841	NC_021160.1	Ca_kabuli_chr01	38282841	CC	AA	1946742343

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_14084_38284286	NC_021160.1	Ca_kabuli_chr01	38284286	TT	CC	1946742351
SNP_P4_14085_38284482	NC_021160.1	Ca_kabuli_chr01	38284482	TT	CC	1946742353
SNP_P4_14086_38284506	NC_021160.1	Ca_kabuli_chr01	38284506	AA	TT	1946742355
SNP_P4_14087_38284548	NC_021160.1	Ca_kabuli_chr01	38284548	TT	CC	1946742357
SNP_P4_14088_38284784	NC_021160.1	Ca_kabuli_chr01	38284784	GG	TT	1946742359
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SNP_P4_14090_38285999	NC_021160.1	Ca_kabuli_chr01	38285999	AA	TT	1946742363
SNP_P4_14091_38286008	NC_021160.1	Ca_kabuli_chr01	38286008	CC	GG	1946742365
SNP_P4_14092_38286322	NC_021160.1	Ca_kabuli_chr01	38286322	GG	AA	1946742367
SNP_P4_14093_38286401	NC_021160.1	Ca_kabuli_chr01	38286401	CC	TT	1946742369
SNP_P4_14094_38287168	NC_021160.1	Ca_kabuli_chr01	38287168	CC	TT	1946742371
SNP_P4_14095_38287173	NC_021160.1	Ca_kabuli_chr01	38287173	AA	GG	1946742373
SNP_P4_14096_38288447	NC_021160.1	Ca_kabuli_chr01	38288447	GG	AA	1946742376
SNP_P4_14099_38295956	NC_021160.1	Ca_kabuli_chr01	38295956	AA	GG	1946742378
SNP_P4_14100_38295957	NC_021160.1	Ca_kabuli_chr01	38295957	GG	AA	1946742380
SNP_P4_14101_38295961	NC_021160.1	Ca_kabuli_chr01	38295961	CC	AA	1946742382
SNP_P4_14102_38295966	NC_021160.1	Ca_kabuli_chr01	38295966	GG	TT	1946742384
SNP_P4_14103_38296202	NC_021160.1	Ca_kabuli_chr01	38296202	CC	TT	1946742386
SNP_P4_14104_38296204	NC_021160.1	Ca_kabuli_chr01	38296204	AA	TT	1946742388
SNP_P4_14106_38303928	NC_021160.1	Ca_kabuli_chr01	38303928	TT	CC	1946742390
SNP_P4_14107_38303951	NC_021160.1	Ca_kabuli_chr01	38303951	GG	AA	1946742392
SNP_P4_14108_38315928	NC_021160.1	Ca_kabuli_chr01	38315928	CC	TT	1946742394
SNP_P4_14109_38315956	NC_021160.1	Ca_kabuli_chr01	38315956	TT	CC	1946742396
SNP_P4_14110_38316013	NC_021160.1	Ca_kabuli_chr01	38316013	GG	TT	1946742398
SNP_P4_14111_38316235	NC_021160.1	Ca_kabuli_chr01	38316235	CC	TT	1946742400
SNP_P4_14112_38316240	NC_021160.1	Ca_kabuli_chr01	38316240	CC	TT	1946742402
SNP_P4_14113_38316255	NC_021160.1	Ca_kabuli_chr01	38316255	CC	TT	1946742404
SNP_P4_14114_38316320	NC_021160.1	Ca_kabuli_chr01	38316320	TT	CC	1946742406
SNP_P4_14115_38316505	NC_021160.1	Ca_kabuli_chr01	38316505	AA	CC	1946742408
SNP_P4_14116_38316506	NC_021160.1	Ca_kabuli_chr01	38316506	GG	TT	1946742410
SNP_P4_14117_38316806	NC_021160.1	Ca_kabuli_chr01	38316806	CC	TT	1946742412
SNP_P4_14118_38316808	NC_021160.1	Ca_kabuli_chr01	38316808	TT	GG	1946742414
SNP_P4_14119_38316876	NC_021160.1	Ca_kabuli_chr01	38316876	GG	AA	1946742416
SNP_P4_14120_38316878	NC_021160.1	Ca_kabuli_chr01	38316878	TT	CC	1946742418
SNP_P4_14121_38316905	NC_021160.1	Ca_kabuli_chr01	38316905	AA	GG	1946742420
SNP_P4_14122_38317186	NC_021160.1	Ca_kabuli_chr01	38317186	AA	GG	1946742422
SNP_P4_14123_38317218	NC_021160.1	Ca_kabuli_chr01	38317218	AA	TT	1946742424
SNP_P4_14124_38317234	NC_021160.1	Ca_kabuli_chr01	38317234	AA	GG	1946742426
SNP_P4_14125_38317537	NC_021160.1	Ca_kabuli_chr01	38317537	CC	TT	1946742428

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_14127_38317941	NC_021160.1	Ca_kabuli_chr01	38317941	AA	GG	1946742432
SNP_P4_14128_38317958	NC_021160.1	Ca_kabuli_chr01	38317958	CC	TT	1946742434
SNP_P4_14129_38320240	NC_021160.1	Ca_kabuli_chr01	38320240	TT	AA	1946742436
SNP_P4_14130_38320242	NC_021160.1	Ca_kabuli_chr01	38320242	GG	CC	1946742438
SNP_P4_14131_38320248	NC_021160.1	Ca_kabuli_chr01	38320248	TT	CC	1946742440
SNP_P4_14132_38320367	NC_021160.1	Ca_kabuli_chr01	38320367	AA	GG	1946742442
SNP_P4_14133_38320373	NC_021160.1	Ca_kabuli_chr01	38320373	TT	CC	1946742444
SNP_P4_14134_38320432	NC_021160.1	Ca_kabuli_chr01	38320432	AA	GG	1946742446
SNP_P4_14135_38320437	NC_021160.1	Ca_kabuli_chr01	38320437	TT	CC	1946742448
SNP_P4_14136_38321913	NC_021160.1	Ca_kabuli_chr01	38321913	AA	GG	1946742450
SNP_P4_14137_38321942	NC_021160.1	Ca_kabuli_chr01	38321942	AA	GG	1946742452
SNP_P4_14138_38321960	NC_021160.1	Ca_kabuli_chr01	38321960	TT	CC	1946742454
SNP_P4_14139_38321962	NC_021160.1	Ca_kabuli_chr01	38321962	TT	GG	1946742455
SNP_P4_14140_38322014	NC_021160.1	Ca_kabuli_chr01	38322014	TT	CC	1946742457
SNP_P4_14141_38322044	NC_021160.1	Ca_kabuli_chr01	38322044	CC	TT	1946742459
SNP_P4_14142_38322050	NC_021160.1	Ca_kabuli_chr01	38322050	CC	AA	1946742461
SNP_P4_14143_38322052	NC_021160.1	Ca_kabuli_chr01	38322052	AA	GG	1946742463
SNP_P4_14144_38322058	NC_021160.1	Ca_kabuli_chr01	38322058	TT	GG	1946742465
SNP_P4_14145_38322068	NC_021160.1	Ca_kabuli_chr01	38322068	CC	AA	1946742467
SNP_P4_14146_38322101	NC_021160.1	Ca_kabuli_chr01	38322101	TT	CC	1946742469
SNP_P4_14147_38322107	NC_021160.1	Ca_kabuli_chr01	38322107	TT	CC	1946742471
SNP_P4_14148_38322288	NC_021160.1	Ca_kabuli_chr01	38322288	AA	TT	1946742473
SNP_P4_14149_38323972	NC_021160.1	Ca_kabuli_chr01	38323972	TT	CC	1946742475
SNP_P4_14150_38323979	NC_021160.1	Ca_kabuli_chr01	38323979	CC	TT	1946742477
SNP_P4_14151_38324612	NC_021160.1	Ca_kabuli_chr01	38324612	CC	TT	1946742479
SNP_P4_14152_38326113	NC_021160.1	Ca_kabuli_chr01	38326113	TT	CC	1946742481
SNP_P4_14153_38326117	NC_021160.1	Ca_kabuli_chr01	38326117	CC	TT	1946742483
SNP_P4_14154_38326239	NC_021160.1	Ca_kabuli_chr01	38326239	GG	AA	1946742485
SNP_P4_14155_38326282	NC_021160.1	Ca_kabuli_chr01	38326282	TT	AA	1946742487
SNP_P4_14156_38328267	NC_021160.1	Ca_kabuli_chr01	38328267	CC	TT	1946742489
SNP_P4_14157_38328283	NC_021160.1	Ca_kabuli_chr01	38328283	CC	TT	1946742491
SNP_P4_14158_38328618	NC_021160.1	Ca_kabuli_chr01	38328618	TT	CC	1946742493
SNP_P4_14159_38329522	NC_021160.1	Ca_kabuli_chr01	38329522	GG	AA	1946742495
SNP_P4_14160_38329529	NC_021160.1	Ca_kabuli_chr01	38329529	GG	AA	1946742498
SNP_P4_14161_38329558	NC_021160.1	Ca_kabuli_chr01	38329558	GG	AA	1946742501
SNP_P4_14162_38329836	NC_021160.1	Ca_kabuli_chr01	38329836	AA	GG	1946742504
SNP_P4_14163_38331343	NC_021160.1	Ca_kabuli_chr01	38331343	AA	TT	1946742506
SNP_P4_14164_38332188	NC_021160.1	Ca_kabuli_chr01	38332188	TT	CC	1946742508
SNP_P4_14165_38334939	NC_021160.1	Ca_kabuli_chr01	38334939	CC	TT	1946742511
SNP_P4_14166_38334942	NC_021160.1	Ca_kabuli_chr01	38334942	AA	GG	1946742514
SNP_P4_14167_38335494	NC_021160.1	Ca_kabuli_chr01	38335494	GG	CC	1946742516

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_14171_38338843	NC_021160.1	Ca_kabuli_chr01	38338843	AA	GG	1946742521
SNP_P4_14172_38338878	NC_021160.1	Ca_kabuli_chr01	38338878	GG	AA	1946742523
SNP_P4_14173_38338921	NC_021160.1	Ca_kabuli_chr01	38338921	AA	GG	1946742525
SNP_P4_14174_38338954	NC_021160.1	Ca_kabuli_chr01	38338954	AA	TT	1946742527
SNP_P4_14175_38341071	NC_021160.1	Ca_kabuli_chr01	38341071	GG	AA	1946742529
SNP_P4_14176_38341094	NC_021160.1	Ca_kabuli_chr01	38341094	AA	GG	1946742531
SNP_P4_14177_38341829	NC_021160.1	Ca_kabuli_chr01	38341829	TT	GG	1946742533
SNP_P4_14178_38341853	NC_021160.1	Ca_kabuli_chr01	38341853	TT	AA	1946742535
SNP_P4_14179_38342113	NC_021160.1	Ca_kabuli_chr01	38342113	AA	GG	1946742537
SNP_P4_14180_38342474	NC_021160.1	Ca_kabuli_chr01	38342474	TT	GG	1946742539
SNP_P4_14181_38342494	NC_021160.1	Ca_kabuli_chr01	38342494	TT	CC	1946742541
SNP_P4_14182_38342585	NC_021160.1	Ca_kabuli_chr01	38342585	GG	TT	1946742543
SNP_P4_14183_38342643	NC_021160.1	Ca_kabuli_chr01	38342643	CC	TT	1946742545
SNP_P4_14184_38342691	NC_021160.1	Ca_kabuli_chr01	38342691	CC	TT	1946742547
SNP_P4_14185_38342699	NC_021160.1	Ca_kabuli_chr01	38342699	CC	TT	1946742549
SNP_P4_14186_38342719	NC_021160.1	Ca_kabuli_chr01	38342719	CC	AA	1946742551
SNP_P4_14187_38342725	NC_021160.1	Ca_kabuli_chr01	38342725	CC	TT	1946742553
SNP_P4_14188_38342845	NC_021160.1	Ca_kabuli_chr01	38342845	AA	GG	1946742555
SNP_P4_14189_38342925	NC_021160.1	Ca_kabuli_chr01	38342925	CC	GG	1946742557
SNP_P4_14190_38342992	NC_021160.1	Ca_kabuli_chr01	38342992	GG	AA	1946742559
SNP_P4_14191_38343048	NC_021160.1	Ca_kabuli_chr01	38343048	CC	TT	1946742561
SNP_P4_14192_38343123	NC_021160.1	Ca_kabuli_chr01	38343123	AA	GG	1946742564
SNP_P4_14193_38343164	NC_021160.1	Ca_kabuli_chr01	38343164	GG	TT	1946742566
SNP_P4_14194_38343167	NC_021160.1	Ca_kabuli_chr01	38343167	AA	CC	1946742568
SNP_P4_14195_38344165	NC_021160.1	Ca_kabuli_chr01	38344165	CC	TT	1946742570
SNP_P4_14196_38344335	NC_021160.1	Ca_kabuli_chr01	38344335	TT	CC	1946742572
SNP_P4_14197_38344336	NC_021160.1	Ca_kabuli_chr01	38344336	CC	TT	1946742574
SNP_P4_14198_38344346	NC_021160.1	Ca_kabuli_chr01	38344346	TT	GG	1946742576
SNP_P4_14199_38345181	NC_021160.1	Ca_kabuli_chr01	38345181	GG	AA	1946742578
SNP_P4_14201_38346054	NC_021160.1	Ca_kabuli_chr01	38346054	TT	GG	1946742580
SNP_P4_14202_38346059	NC_021160.1	Ca_kabuli_chr01	38346059	TT	GG	1946742583
SNP_P4_14203_38346178	NC_021160.1	Ca_kabuli_chr01	38346178	TT	CC	1946742585
SNP_P4_14204_38346500	NC_021160.1	Ca_kabuli_chr01	38346500	CC	TT	1946742587
SNP_P4_14205_38346547	NC_021160.1	Ca_kabuli_chr01	38346547	TT	CC	1946742589
SNP_P4_14206_38346550	NC_021160.1	Ca_kabuli_chr01	38346550	CC	TT	1946742591
SNP_P4_14207_38346974	NC_021160.1	Ca_kabuli_chr01	38346974	TT	CC	1946742593
SNP_P4_14208_38347327	NC_021160.1	Ca_kabuli_chr01	38347327	GG	CC	1946742595
SNP_P4_14209_38347387	NC_021160.1	Ca_kabuli_chr01	38347387	TT	AA	1946742597
SNP_P4_14210_38347717	NC_021160.1	Ca_kabuli_chr01	38347717	AA	GG	1946742599
SNP_P4_14211_38347718	NC_021160.1	Ca_kabuli_chr01	38347718	CC	TT	1946742601

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_14213_38348024	NC_021160.1	Ca_kabuli_chr01	38348024	AA	GG	1946742605
SNP_P4_14214_38348301	NC_021160.1	Ca_kabuli_chr01	38348301	AA	GG	1946742607
SNP_P4_14215_38349217	NC_021160.1	Ca_kabuli_chr01	38349217	CC	TT	1946742609
SNP_P4_14216_38349655	NC_021160.1	Ca_kabuli_chr01	38349655	AA	CC	1946742611
SNP_P4_14217_38350967	NC_021160.1	Ca_kabuli_chr01	38350967	TT	AA	1946742613
SNP_P4_14218_38351076	NC_021160.1	Ca_kabuli_chr01	38351076	GG	AA	1946742615
SNP_P4_14219_38351224	NC_021160.1	Ca_kabuli_chr01	38351224	TT	CC	1946742617
SNP_P4_14220_38351296	NC_021160.1	Ca_kabuli_chr01	38351296	TT	CC	1946742619
SNP_P4_14221_38351512	NC_021160.1	Ca_kabuli_chr01	38351512	AA	TT	1946742621
SNP_P4_14222_38351744	NC_021160.1	Ca_kabuli_chr01	38351744	GG	TT	1946742623
SNP_P4_14223_38352442	NC_021160.1	Ca_kabuli_chr01	38352442	AA	TT	1946742625
SNP_P4_14224_38352483	NC_021160.1	Ca_kabuli_chr01	38352483	TT	CC	1946742627
SNP_P4_14225_38352641	NC_021160.1	Ca_kabuli_chr01	38352641	GG	AA	1946742629
SNP_P4_14226_38356092	NC_021160.1	Ca_kabuli_chr01	38356092	TT	CC	1946742631
SNP_P4_14227_38358467	NC_021160.1	Ca_kabuli_chr01	38358467	CC	TT	1946742633
SNP_P4_14228_38359541	NC_021160.1	Ca_kabuli_chr01	38359541	AA	GG	1946742635
SNP_P4_14229_38359573	NC_021160.1	Ca_kabuli_chr01	38359573	TT	CC	1946742637
SNP_P4_14230_38360335	NC_021160.1	Ca_kabuli_chr01	38360335	CC	AA	1946742639
SNP_P4_14232_38360381	NC_021160.1	Ca_kabuli_chr01	38360381	CC	AA	1946742641
SNP_P4_14233_38360410	NC_021160.1	Ca_kabuli_chr01	38360410	CC	GG	1946742643
SNP_P4_14234_38365496	NC_021160.1	Ca_kabuli_chr01	38365496	TT	CC	1946742645
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SNP_P4_14237_38367035	NC_021160.1	Ca_kabuli_chr01	38367035	TT	CC	1946742651
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SNP_P4_14239_38380309	NC_021160.1	Ca_kabuli_chr01	38380309	CC	AA	1946742655
SNP_P4_14240_38386448	NC_021160.1	Ca_kabuli_chr01	38386448	GG	AA	1946742657
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SNP_P4_14242_38391572	NC_021160.1	Ca_kabuli_chr01	38391572	AA	GG	1946742661
SNP_P4_14243_38393063	NC_021160.1	Ca_kabuli_chr01	38393063	TT	CC	1946742663
SNP_P4_14245_38395237	NC_021160.1	Ca_kabuli_chr01	38395237	TT	AA	1946742665
SNP_P4_14246_38420937	NC_021160.1	Ca_kabuli_chr01	38420937	GG	AA	1946742667
SNP_P4_14247_38421070	NC_021160.1	Ca_kabuli_chr01	38421070	CC	AA	1946742669
SNP_P4_14248_38421461	NC_021160.1	Ca_kabuli_chr01	38421461	AA	TT	1946742671
SNP_P4_14249_38422841	NC_021160.1	Ca_kabuli_chr01	38422841	GG	AA	1946742673
SNP_P4_14250_38424856	NC_021160.1	Ca_kabuli_chr01	38424856	TT	CC	1946742675
SNP_P4_14251_38426687	NC_021160.1	Ca_kabuli_chr01	38426687	AA	GG	1946742677
SNP_P4_14252_38442796	NC_021160.1	Ca_kabuli_chr01	38442796	CC	TT	1946742679
SNP_P4_14253_38444349	NC_021160.1	Ca_kabuli_chr01	38444349	GG	TT	1946742681
SNP_P4_14254_38448745	NC_021160.1	Ca_kabuli_chr01	38448745	GG	AA	1946742683
SNP_P4_14255_38449215	NC_021160.1	Ca_kabuli_chr01	38449215	GG	AA	1946742685

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_14259_38466106	NC_021160.1	Ca_kabuli_chr01	38466106	AA	TT	1946742692
SNP_P4_14260_38466331	NC_021160.1	Ca_kabuli_chr01	38466331	AA	TT	1946742694
SNP_P4_14261_38466352	NC_021160.1	Ca_kabuli_chr01	38466352	AA	GG	1946742696
SNP_P4_14262_38466484	NC_021160.1	Ca_kabuli_chr01	38466484	TT	CC	1946742698
SNP_P4_14263_38479384	NC_021160.1	Ca_kabuli_chr01	38479384	TT	AA	1946742700
SNP_P4_14264_38480798	NC_021160.1	Ca_kabuli_chr01	38480798	GG	AA	1946742701
SNP_P4_14266_38484573	NC_021160.1	Ca_kabuli_chr01	38484573	TT	CC	1946742703
SNP_P4_14268_38488979	NC_021160.1	Ca_kabuli_chr01	38488979	CC	GG	1946742705
SNP_P4_14269_38491253	NC_021160.1	Ca_kabuli_chr01	38491253	AA	CC	1946742707
SNP_P4_14272_38496989	NC_021160.1	Ca_kabuli_chr01	38496989	GG	AA	1946742709
SNP_P4_14273_38498376	NC_021160.1	Ca_kabuli_chr01	38498376	AA	GG	1946742711
SNP_P4_14274_38499098	NC_021160.1	Ca_kabuli_chr01	38499098	CC	TT	1946742713
SNP_P4_14275_38499099	NC_021160.1	Ca_kabuli_chr01	38499099	GG	AA	1946742715
SNP_P4_14276_38499129	NC_021160.1	Ca_kabuli_chr01	38499129	GG	AA	1946742717
SNP_P4_14277_38499133	NC_021160.1	Ca_kabuli_chr01	38499133	TT	AA	1946742719
SNP_P4_14278_38499164	NC_021160.1	Ca_kabuli_chr01	38499164	GG	TT	1946742721
SNP_P4_14279_38514033	NC_021160.1	Ca_kabuli_chr01	38514033	TT	CC	1946742723
SNP_P4_14281_38520698	NC_021160.1	Ca_kabuli_chr01	38520698	AA	GG	1946742725
SNP_P4_14282_38522139	NC_021160.1	Ca_kabuli_chr01	38522139	CC	TT	1946742727
SNP_P4_14283_38523238	NC_021160.1	Ca_kabuli_chr01	38523238	TT	CC	1946742729
SNP_P4_14284_38524375	NC_021160.1	Ca_kabuli_chr01	38524375	CC	TT	1946742731
SNP_P4_14285_38529230	NC_021160.1	Ca_kabuli_chr01	38529230	TT	AA	1946742733
SNP_P4_14286_38529243	NC_021160.1	Ca_kabuli_chr01	38529243	GG	TT	1946742735
SNP_P4_14287_38531220	NC_021160.1	Ca_kabuli_chr01	38531220	CC	TT	1946742737
SNP_P4_14288_38535000	NC_021160.1	Ca_kabuli_chr01	38535000	TT	CC	1946742739
SNP_P4_14290_38535455	NC_021160.1	Ca_kabuli_chr01	38535455	GG	AA	1946742741
SNP_P4_14291_38535579	NC_021160.1	Ca_kabuli_chr01	38535579	TT	CC	1946742743
SNP_P4_14292_38537518	NC_021160.1	Ca_kabuli_chr01	38537518	GG	AA	1946742745
SNP_P4_14293_38539139	NC_021160.1	Ca_kabuli_chr01	38539139	AA	GG	1946742747
SNP_P4_14294_38539389	NC_021160.1	Ca_kabuli_chr01	38539389	GG	CC	1946742749
SNP_P4_14295_38547481	NC_021160.1	Ca_kabuli_chr01	38547481	TT	GG	1946742750
SNP_P4_14296_38547819	NC_021160.1	Ca_kabuli_chr01	38547819	AA	GG	1946742752
SNP_P4_14297_38548932	NC_021160.1	Ca_kabuli_chr01	38548932	AA	GG	1946742754
SNP_P4_14298_38551059	NC_021160.1	Ca_kabuli_chr01	38551059	GG	AA	1946742756
SNP_P4_14299_38553210	NC_021160.1	Ca_kabuli_chr01	38553210	CC	TT	1946742758
SNP_P4_14300_38553211	NC_021160.1	Ca_kabuli_chr01	38553211	AA	CC	1946742760
SNP_P4_14301_38553314	NC_021160.1	Ca_kabuli_chr01	38553314	CC	TT	1946742762
SNP_P4_14302_38553476	NC_021160.1	Ca_kabuli_chr01	38553476	CC	TT	1946742764
SNP_P4_14303_38553511	NC_021160.1	Ca_kabuli_chr01	38553511	TT	AA	1946742766
SNP_P4_14304_38553512	NC_021160.1	Ca_kabuli_chr01	38553512	TT	AA	1946742768

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_14306_38554480	NC_021160.1	Ca_kabuli_chr01	38554480	CC	TT	1946742772
SNP_P4_14308_38562454	NC_021160.1	Ca_kabuli_chr01	38562454	CC	TT	1946742774
SNP_P4_14309_38562456	NC_021160.1	Ca_kabuli_chr01	38562456	CC	TT	1946742776
SNP_P4_14310_38562460	NC_021160.1	Ca_kabuli_chr01	38562460	TT	CC	1946742778
SNP_P4_14311_38562471	NC_021160.1	Ca_kabuli_chr01	38562471	CC	TT	1946742780
SNP_P4_14312_38562478	NC_021160.1	Ca_kabuli_chr01	38562478	CC	TT	1946742782
SNP_P4_14313_38562486	NC_021160.1	Ca_kabuli_chr01	38562486	CC	TT	1946742784
SNP_P4_14314_38562487	NC_021160.1	Ca_kabuli_chr01	38562487	AA	TT	1946742786
SNP_P4_14315_38562495	NC_021160.1	Ca_kabuli_chr01	38562495	TT	CC	1946742788
SNP_P4_14316_38563155	NC_021160.1	Ca_kabuli_chr01	38563155	GG	CC	1946742790
SNP_P4_14317_38563345	NC_021160.1	Ca_kabuli_chr01	38563345	CC	TT	1946742792
SNP_P4_14318_38563361	NC_021160.1	Ca_kabuli_chr01	38563361	CC	TT	1946742794
SNP_P4_14319_38563376	NC_021160.1	Ca_kabuli_chr01	38563376	CC	TT	1946742796
SNP_P4_14320_38563877	NC_021160.1	Ca_kabuli_chr01	38563877	TT	CC	1946742798
SNP_P4_14321_38563891	NC_021160.1	Ca_kabuli_chr01	38563891	AA	CC	1946742800
SNP_P4_14322_38564026	NC_021160.1	Ca_kabuli_chr01	38564026	TT	CC	1946742802
SNP_P4_14323_38564060	NC_021160.1	Ca_kabuli_chr01	38564060	TT	GG	1946742804
SNP_P4_14324_38564439	NC_021160.1	Ca_kabuli_chr01	38564439	CC	TT	1946742806
SNP_P4_14325_38564480	NC_021160.1	Ca_kabuli_chr01	38564480	GG	AA	1946742808
SNP_P4_14326_38564704	NC_021160.1	Ca_kabuli_chr01	38564704	CC	TT	1946742810
SNP_P4_14327_38564933	NC_021160.1	Ca_kabuli_chr01	38564933	TT	CC	1946742812
SNP_P4_14328_38565508	NC_021160.1	Ca_kabuli_chr01	38565508	TT	AA	1946742814
SNP_P4_14329_38566789	NC_021160.1	Ca_kabuli_chr01	38566789	TT	AA	1946742816
SNP_P4_14330_38566903	NC_021160.1	Ca_kabuli_chr01	38566903	GG	AA	1946742818
SNP_P4_14331_38567396	NC_021160.1	Ca_kabuli_chr01	38567396	CC	TT	1946742820
SNP_P4_14332_38567636	NC_021160.1	Ca_kabuli_chr01	38567636	GG	TT	1946742822
SNP_P4_14333_38567647	NC_021160.1	Ca_kabuli_chr01	38567647	CC	TT	1946742824
SNP_P4_14334_38568116	NC_021160.1	Ca_kabuli_chr01	38568116	AA	GG	1946742826
SNP_P4_14335_38568142	NC_021160.1	Ca_kabuli_chr01	38568142	GG	AA	1946742828
SNP_P4_14337_38568542	NC_021160.1	Ca_kabuli_chr01	38568542	CC	GG	1946742830
SNP_P4_14338_38568569	NC_021160.1	Ca_kabuli_chr01	38568569	AA	GG	1946742832
SNP_P4_14339_38568570	NC_021160.1	Ca_kabuli_chr01	38568570	CC	GG	1946742833
SNP_P4_14340_38568846	NC_021160.1	Ca_kabuli_chr01	38568846	AA	GG	1946742835
SNP_P4_14341_38569113	NC_021160.1	Ca_kabuli_chr01	38569113	TT	AA	1946742837
SNP_P4_14344_38571122	NC_021160.1	Ca_kabuli_chr01	38571122	AA	GG	1946742839
SNP_P4_14345_38571639	NC_021160.1	Ca_kabuli_chr01	38571639	CC	AA	1946742841
SNP_P4_14346_38571828	NC_021160.1	Ca_kabuli_chr01	38571828	CC	TT	1946742844
SNP_P4_14347_38572142	NC_021160.1	Ca_kabuli_chr01	38572142	CC	TT	1946742846
SNP_P4_14348_38572162	NC_021160.1	Ca_kabuli_chr01	38572162	GG	TT	1946742848
SNP_P4_14349_38573010	NC_021160.1	Ca_kabuli_chr01	38573010	GG	AA	1946742850
SNP_P4_14350_38573728	NC_021160.1	Ca_kabuli_chr01	38573728	CC	TT	1946742852

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_14353_38574144	NC_021160.1	Ca_kabuli_chr01	38574144	TT	GG	1946742857
SNP_P4_14354_38574147	NC_021160.1	Ca_kabuli_chr01	38574147	CC	TT	1946742859
SNP_P4_14355_38574286	NC_021160.1	Ca_kabuli_chr01	38574286	TT	CC	1946742861
SNP_P4_14356_38574295	NC_021160.1	Ca_kabuli_chr01	38574295	TT	CC	1946742863
SNP_P4_14357_38574325	NC_021160.1	Ca_kabuli_chr01	38574325	TT	CC	1946742865
SNP_P4_14358_38574621	NC_021160.1	Ca_kabuli_chr01	38574621	GG	CC	1946742867
SNP_P4_14359_38574633	NC_021160.1	Ca_kabuli_chr01	38574633	TT	CC	1946742869
SNP_P4_14360_38574942	NC_021160.1	Ca_kabuli_chr01	38574942	AA	GG	1946742871
SNP_P4_14361_38575431	NC_021160.1	Ca_kabuli_chr01	38575431	GG	AA	1946742873
SNP_P4_14362_38575433	NC_021160.1	Ca_kabuli_chr01	38575433	CC	AA	1946742875
SNP_P4_14363_38576552	NC_021160.1	Ca_kabuli_chr01	38576552	AA	GG	1946742877
SNP_P4_14364_38577019	NC_021160.1	Ca_kabuli_chr01	38577019	CC	AA	1946742879
SNP_P4_14365_38577086	NC_021160.1	Ca_kabuli_chr01	38577086	CC	TT	1946742881
SNP_P4_14367_38577250	NC_021160.1	Ca_kabuli_chr01	38577250	AA	TT	1946742883
SNP_P4_14368_38578387	NC_021160.1	Ca_kabuli_chr01	38578387	CC	TT	1946742885
SNP_P4_14369_38585591	NC_021160.1	Ca_kabuli_chr01	38585591	CC	TT	1946742887
SNP_P4_14370_38585625	NC_021160.1	Ca_kabuli_chr01	38585625	TT	CC	1946742889
SNP_P4_14371_38586069	NC_021160.1	Ca_kabuli_chr01	38586069	AA	TT	1946742890
SNP_P4_14372_38592153	NC_021160.1	Ca_kabuli_chr01	38592153	GG	AA	1946742892
SNP_P4_14373_38592156	NC_021160.1	Ca_kabuli_chr01	38592156	CC	TT	1946742894
SNP_P4_14374_38592211	NC_021160.1	Ca_kabuli_chr01	38592211	AA	TT	1946742896
SNP_P4_14375_38592251	NC_021160.1	Ca_kabuli_chr01	38592251	AA	GG	1946742898
SNP_P4_14376_38592280	NC_021160.1	Ca_kabuli_chr01	38592280	AA	TT	1946742900
SNP_P4_14377_38594246	NC_021160.1	Ca_kabuli_chr01	38594246	CC	GG	1946742902
SNP_P4_14378_38594293	NC_021160.1	Ca_kabuli_chr01	38594293	TT	GG	1946742904
SNP_P4_14379_38594305	NC_021160.1	Ca_kabuli_chr01	38594305	AA	CC	1946742906
SNP_P4_14380_38594562	NC_021160.1	Ca_kabuli_chr01	38594562	CC	AA	1946742908
SNP_P4_14381_38594587	NC_021160.1	Ca_kabuli_chr01	38594587	GG	AA	1946742910
SNP_P4_14382_38594600	NC_021160.1	Ca_kabuli_chr01	38594600	GG	AA	1946742912
SNP_P4_14383_38595189	NC_021160.1	Ca_kabuli_chr01	38595189	GG	TT	1946742914
SNP_P4_14384_38596970	NC_021160.1	Ca_kabuli_chr01	38596970	GG	AA	1946742917
SNP_P4_14385_38596994	NC_021160.1	Ca_kabuli_chr01	38596994	CC	TT	1946742919
SNP_P4_14386_38597349	NC_021160.1	Ca_kabuli_chr01	38597349	TT	CC	1946742921
SNP_P4_14387_38597401	NC_021160.1	Ca_kabuli_chr01	38597401	AA	GG	1946742923
SNP_P4_14388_38597406	NC_021160.1	Ca_kabuli_chr01	38597406	GG	AA	1946742925
SNP_P4_14390_38597989	NC_021160.1	Ca_kabuli_chr01	38597989	TT	AA	1946742927
SNP_P4_14391_38598732	NC_021160.1	Ca_kabuli_chr01	38598732	GG	AA	1946742929
SNP_P4_14392_38598745	NC_021160.1	Ca_kabuli_chr01	38598745	GG	CC	1946742931
SNP_P4_14393_38598750	NC_021160.1	Ca_kabuli_chr01	38598750	AA	GG	1946742933
SNP_P4_14394_38601650	NC_021160.1	Ca_kabuli_chr01	38601650	CC	TT	1946742935

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_14396_38603587	NC_021160.1	Ca_kabuli_chr01	38603587	TT	CC	1946742939
SNP_P4_14397_38605815	NC_021160.1	Ca_kabuli_chr01	38605815	GG	AA	1946742941
SNP_P4_14398_38607729	NC_021160.1	Ca_kabuli_chr01	38607729	CC	TT	1946742943
SNP_P4_14400_38615333	NC_021160.1	Ca_kabuli_chr01	38615333	AA	TT	1946742945
SNP_P4_14401_38615547	NC_021160.1	Ca_kabuli_chr01	38615547	AA	GG	1946742947
SNP_P4_14402_38615781	NC_021160.1	Ca_kabuli_chr01	38615781	TT	GG	1946742949
SNP_P4_14403_38616945	NC_021160.1	Ca_kabuli_chr01	38616945	AA	GG	1946742951
SNP_P4_14404_38617038	NC_021160.1	Ca_kabuli_chr01	38617038	GG	CC	1946742953
SNP_P4_14405_38617174	NC_021160.1	Ca_kabuli_chr01	38617174	TT	GG	1946742955
SNP_P4_14406_38619014	NC_021160.1	Ca_kabuli_chr01	38619014	TT	AA	1946742957
SNP_P4_14407_38619019	NC_021160.1	Ca_kabuli_chr01	38619019	TT	CC	1946742959
SNP_P4_14408_38619896	NC_021160.1	Ca_kabuli_chr01	38619896	GG	AA	1946742961
SNP_P4_14409_38621212	NC_021160.1	Ca_kabuli_chr01	38621212	AA	CC	1946742963
SNP_P4_14410_38621527	NC_021160.1	Ca_kabuli_chr01	38621527	AA	GG	1946742965
SNP_P4_14411_38621826	NC_021160.1	Ca_kabuli_chr01	38621826	AA	TT	1946742967
SNP_P4_14412_38621827	NC_021160.1	Ca_kabuli_chr01	38621827	AA	GG	1946742969
SNP_P4_14413_38623214	NC_021160.1	Ca_kabuli_chr01	38623214	GG	AA	1946742971
SNP_P4_14415_38623780	NC_021160.1	Ca_kabuli_chr01	38623780	GG	AA	1946742973
SNP_P4_14416_38626538	NC_021160.1	Ca_kabuli_chr01	38626538	AA	GG	1946742975
SNP_P4_14417_38631476	NC_021160.1	Ca_kabuli_chr01	38631476	AA	CC	1946742977
SNP_P4_14418_38633847	NC_021160.1	Ca_kabuli_chr01	38633847	GG	AA	1946742979
SNP_P4_14419_38635897	NC_021160.1	Ca_kabuli_chr01	38635897	CC	TT	1946742981
SNP_P4_14421_38638532	NC_021160.1	Ca_kabuli_chr01	38638532	GG	AA	1946742983
SNP_P4_14422_38638864	NC_021160.1	Ca_kabuli_chr01	38638864	AA	GG	1946742985
SNP_P4_14424_38643548	NC_021160.1	Ca_kabuli_chr01	38643548	CC	AA	1946742987
SNP_P4_14425_38644012	NC_021160.1	Ca_kabuli_chr01	38644012	AA	TT	1946742989
SNP_P4_14426_38644434	NC_021160.1	Ca_kabuli_chr01	38644434	AA	GG	1946742991
SNP_P4_14427_38644478	NC_021160.1	Ca_kabuli_chr01	38644478	AA	TT	1946742993
SNP_P4_14428_38650667	NC_021160.1	Ca_kabuli_chr01	38650667	TT	CC	1946742995
SNP_P4_14429_38650966	NC_021160.1	Ca_kabuli_chr01	38650966	TT	CC	1946742997
SNP_P4_14430_38651048	NC_021160.1	Ca_kabuli_chr01	38651048	TT	CC	1946742999
SNP_P4_14431_38651082	NC_021160.1	Ca_kabuli_chr01	38651082	CC	TT	1946743001
SNP_P4_14432_38651092	NC_021160.1	Ca_kabuli_chr01	38651092	AA	GG	1946743003
SNP_P4_14433_38651098	NC_021160.1	Ca_kabuli_chr01	38651098	AA	CC	1946743005
SNP_P4_14434_38651137	NC_021160.1	Ca_kabuli_chr01	38651137	GG	TT	1946743007
SNP_P4_14435_38651237	NC_021160.1	Ca_kabuli_chr01	38651237	TT	CC	1946743009
SNP_P4_14436_38651832	NC_021160.1	Ca_kabuli_chr01	38651832	TT	CC	1946743011
SNP_P4_14437_38651833	NC_021160.1	Ca_kabuli_chr01	38651833	CC	TT	1946743013
SNP_P4_14438_38651968	NC_021160.1	Ca_kabuli_chr01	38651968	GG	AA	1946743015
SNP_P4_14439_38652079	NC_021160.1	Ca_kabuli_chr01	38652079	AA	GG	1946743017
SNP_P4_14440_38652203	NC_021160.1	Ca_kabuli_chr01	38652203	GG	AA	1946743018

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_14444_38659057	NC_021160.1	Ca_kabuli_chr01	38659057	CC	GG	1946743022
SNP_P4_14445_38659267	NC_021160.1	Ca_kabuli_chr01	38659267	CC	TT	1946743024
SNP_P4_14446_38660681	NC_021160.1	Ca_kabuli_chr01	38660681	TT	AA	1946743026
SNP_P4_14447_38661342	NC_021160.1	Ca_kabuli_chr01	38661342	TT	AA	1946743028
SNP_P4_14448_38662432	NC_021160.1	Ca_kabuli_chr01	38662432	GG	TT	1946743030
SNP_P4_14449_38662555	NC_021160.1	Ca_kabuli_chr01	38662555	GG	AA	1946743032
SNP_P4_14450_38662563	NC_021160.1	Ca_kabuli_chr01	38662563	GG	TT	1946743034
SNP_P4_14451_38662764	NC_021160.1	Ca_kabuli_chr01	38662764	TT	CC	1946743036
SNP_P4_14452_38662899	NC_021160.1	Ca_kabuli_chr01	38662899	GG	AA	1946743038
SNP_P4_14453_38664474	NC_021160.1	Ca_kabuli_chr01	38664474	TT	AA	1946743040
SNP_P4_14454_38664904	NC_021160.1	Ca_kabuli_chr01	38664904	GG	TT	1946743042
SNP_P4_14455_38667406	NC_021160.1	Ca_kabuli_chr01	38667406	CC	TT	1946743044
SNP_P4_14457_38671155	NC_021160.1	Ca_kabuli_chr01	38671155	AA	GG	1946743045
SNP_P4_14458_38671372	NC_021160.1	Ca_kabuli_chr01	38671372	GG	TT	1946743047
SNP_P4_14459_38677066	NC_021160.1	Ca_kabuli_chr01	38677066	GG	AA	1946743049
SNP_P4_14460_38677173	NC_021160.1	Ca_kabuli_chr01	38677173	GG	TT	1946743051
SNP_P4_14461_38677343	NC_021160.1	Ca_kabuli_chr01	38677343	AA	CC	1946743053
SNP_P4_14463_38677402	NC_021160.1	Ca_kabuli_chr01	38677402	AA	CC	1946743055
SNP_P4_14464_38677414	NC_021160.1	Ca_kabuli_chr01	38677414	CC	TT	1946743057
SNP_P4_14465_38677420	NC_021160.1	Ca_kabuli_chr01	38677420	GG	AA	1946743059
SNP_P4_14466_38677449	NC_021160.1	Ca_kabuli_chr01	38677449	AA	GG	1946743061
SNP_P4_14467_38677476	NC_021160.1	Ca_kabuli_chr01	38677476	AA	GG	1946743063
SNP_P4_14468_38677496	NC_021160.1	Ca_kabuli_chr01	38677496	AA	CC	1946743065
SNP_P4_14469_38677514	NC_021160.1	Ca_kabuli_chr01	38677514	AA	GG	1946743067
SNP_P4_14470_38677534	NC_021160.1	Ca_kabuli_chr01	38677534	GG	AA	1946743069
SNP_P4_14471_38677577	NC_021160.1	Ca_kabuli_chr01	38677577	AA	GG	1946743071
SNP_P4_14472_38677591	NC_021160.1	Ca_kabuli_chr01	38677591	AA	GG	1946743073
SNP_P4_14473_38677622	NC_021160.1	Ca_kabuli_chr01	38677622	AA	CC	1946743075
SNP_P4_14474_38677646	NC_021160.1	Ca_kabuli_chr01	38677646	TT	CC	1946743077
SNP_P4_14475_38681993	NC_021160.1	Ca_kabuli_chr01	38681993	TT	AA	1946743079
SNP_P4_14476_38682331	NC_021160.1	Ca_kabuli_chr01	38682331	TT	CC	1946743081
SNP_P4_14477_38682907	NC_021160.1	Ca_kabuli_chr01	38682907	GG	AA	1946743083
SNP_P4_14478_38699830	NC_021160.1	Ca_kabuli_chr01	38699830	CC	TT	1946743085
SNP_P4_14479_38703276	NC_021160.1	Ca_kabuli_chr01	38703276	AA	GG	1946743087
SNP_P4_14480_38703328	NC_021160.1	Ca_kabuli_chr01	38703328	GG	AA	1946743089
SNP_P4_14483_38715112	NC_021160.1	Ca_kabuli_chr01	38715112	AA	TT	1946743091
SNP_P4_14484_38717103	NC_021160.1	Ca_kabuli_chr01	38717103	CC	AA	1946743093
SNP_P4_14485_38718253	NC_021160.1	Ca_kabuli_chr01	38718253	AA	CC	1946743095
SNP_P4_14486_38721766	NC_021160.1	Ca_kabuli_chr01	38721766	AA	GG	1946743097
SNP_P4_14487_38721958	NC_021160.1	Ca_kabuli_chr01	38721958	GG	AA	1946743099
SNP_P4_14488_38723597	NC_021160.1	Ca_kabuli_chr01	38723597	AA	GG	1946743101

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_14490_38727456	NC_021160.1	Ca_kabuli_chr01	38727456	AA	CC	1946743105
SNP_P4_14491_38731323	NC_021160.1	Ca_kabuli_chr01	38731323	GG	TT	1946743107
SNP_P4_14492_38731565	NC_021160.1	Ca_kabuli_chr01	38731565	CC	TT	1946743109
SNP_P4_14493_38732438	NC_021160.1	Ca_kabuli_chr01	38732438	TT	AA	1946743111
SNP_P4_14494_38733196	NC_021160.1	Ca_kabuli_chr01	38733196	GG	TT	1946743113
SNP_P4_14495_38734123	NC_021160.1	Ca_kabuli_chr01	38734123	TT	CC	1946743115
SNP_P4_14496_38735477	NC_021160.1	Ca_kabuli_chr01	38735477	CC	TT	1946743117
SNP_P4_14497_38736394	NC_021160.1	Ca_kabuli_chr01	38736394	GG	CC	1946743119
SNP_P4_14498_38736414	NC_021160.1	Ca_kabuli_chr01	38736414	CC	TT	1946743121
SNP_P4_14499_38736426	NC_021160.1	Ca_kabuli_chr01	38736426	AA	GG	1946743123
SNP_P4_14500_38736435	NC_021160.1	Ca_kabuli_chr01	38736435	CC	AA	1946743125
SNP_P4_14501_38737062	NC_021160.1	Ca_kabuli_chr01	38737062	AA	TT	1946743127
SNP_P4_14502_38737767	NC_021160.1	Ca_kabuli_chr01	38737767	AA	TT	1946743129
SNP_P4_14503_38737796	NC_021160.1	Ca_kabuli_chr01	38737796	AA	CC	1946743131
SNP_P4_14505_38740718	NC_021160.1	Ca_kabuli_chr01	38740718	CC	GG	1946743133
SNP_P4_14506_38743947	NC_021160.1	Ca_kabuli_chr01	38743947	GG	AA	1946743134
SNP_P4_14507_38744096	NC_021160.1	Ca_kabuli_chr01	38744096	AA	CC	1946743135
SNP_P4_14509_38744306	NC_021160.1	Ca_kabuli_chr01	38744306	GG	AA	1946743136
SNP_P4_14510_38744327	NC_021160.1	Ca_kabuli_chr01	38744327	CC	TT	1946743137
SNP_P4_14511_38744332	NC_021160.1	Ca_kabuli_chr01	38744332	TT	CC	1946743138
SNP_P4_14512_38745573	NC_021160.1	Ca_kabuli_chr01	38745573	CC	TT	1946743140
SNP_P4_14513_38745864	NC_021160.1	Ca_kabuli_chr01	38745864	AA	GG	1946743142
SNP_P4_14514_38745866	NC_021160.1	Ca_kabuli_chr01	38745866	AA	TT	1946743145
SNP_P4_14515_38746068	NC_021160.1	Ca_kabuli_chr01	38746068	TT	AA	1946743147
SNP_P4_14516_38746069	NC_021160.1	Ca_kabuli_chr01	38746069	AA	TT	1946743149
SNP_P4_14517_38746251	NC_021160.1	Ca_kabuli_chr01	38746251	CC	TT	1946743151
SNP_P4_14518_38746463	NC_021160.1	Ca_kabuli_chr01	38746463	AA	CC	1946743152
SNP_P4_14520_38748385	NC_021160.1	Ca_kabuli_chr01	38748385	CC	TT	1946743154
SNP_P4_14521_38749563	NC_021160.1	Ca_kabuli_chr01	38749563	TT	CC	1946743156
SNP_P4_14522_38750293	NC_021160.1	Ca_kabuli_chr01	38750293	AA	GG	1946743158
SNP_P4_14523_38750528	NC_021160.1	Ca_kabuli_chr01	38750528	TT	CC	1946743160
SNP_P4_14524_38750733	NC_021160.1	Ca_kabuli_chr01	38750733	GG	AA	1946743162
SNP_P4_14525_38751165	NC_021160.1	Ca_kabuli_chr01	38751165	GG	AA	1946743164
SNP_P4_14526_38751199	NC_021160.1	Ca_kabuli_chr01	38751199	AA	TT	1946743166
SNP_P4_14527_38751651	NC_021160.1	Ca_kabuli_chr01	38751651	TT	AA	1946743168
SNP_P4_14529_38752375	NC_021160.1	Ca_kabuli_chr01	38752375	CC	TT	1946743170
SNP_P4_14530_38752688	NC_021160.1	Ca_kabuli_chr01	38752688	CC	TT	1946743172
SNP_P4_14531_38752717	NC_021160.1	Ca_kabuli_chr01	38752717	GG	AA	1946743174
SNP_P4_14532_38754306	NC_021160.1	Ca_kabuli_chr01	38754306	GG	TT	1946743176
SNP_P4_14533_38754322	NC_021160.1	Ca_kabuli_chr01	38754322	GG	CC	1946743178
SNP_P4_14534_38754840	NC_021160.1	Ca_kabuli_chr01	38754840	TT	GG	1946743180

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_14536_38755016	NC_021160.1	Ca_kabuli_chr01	38755016	TT	CC	1946743184
SNP_P4_14537_38755104	NC_021160.1	Ca_kabuli_chr01	38755104	CC	TT	1946743186
SNP_P4_14538_38755257	NC_021160.1	Ca_kabuli_chr01	38755257	GG	TT	1946743188
SNP_P4_14539_38755789	NC_021160.1	Ca_kabuli_chr01	38755789	AA	TT	1946743190
SNP_P4_14540_38756119	NC_021160.1	Ca_kabuli_chr01	38756119	TT	CC	1946743192
SNP_P4_14541_38756178	NC_021160.1	Ca_kabuli_chr01	38756178	TT	GG	1946743194
SNP_P4_14542_38756837	NC_021160.1	Ca_kabuli_chr01	38756837	GG	TT	1946743196
SNP_P4_14543_38757024	NC_021160.1	Ca_kabuli_chr01	38757024	GG	AA	1946743198
SNP_P4_14544_38757025	NC_021160.1	Ca_kabuli_chr01	38757025	CC	TT	1946743200
SNP_P4_14545_38757031	NC_021160.1	Ca_kabuli_chr01	38757031	GG	AA	1946743202
SNP_P4_14546_38757049	NC_021160.1	Ca_kabuli_chr01	38757049	TT	CC	1946743204
SNP_P4_14548_38757183	NC_021160.1	Ca_kabuli_chr01	38757183	AA	GG	1946743206
SNP_P4_14549_38758880	NC_021160.1	Ca_kabuli_chr01	38758880	TT	GG	1946743208
SNP_P4_14550_38759290	NC_021160.1	Ca_kabuli_chr01	38759290	CC	TT	1946743210
SNP_P4_14551_38759550	NC_021160.1	Ca_kabuli_chr01	38759550	CC	TT	1946743212
SNP_P4_14553_38760892	NC_021160.1	Ca_kabuli_chr01	38760892	TT	CC	1946743214
SNP_P4_14554_38761051	NC_021160.1	Ca_kabuli_chr01	38761051	GG	AA	1946743216
SNP_P4_14555_38761057	NC_021160.1	Ca_kabuli_chr01	38761057	AA	CC	1946743218
SNP_P4_14556_38761205	NC_021160.1	Ca_kabuli_chr01	38761205	GG	AA	1946743220
SNP_P4_14557_38761414	NC_021160.1	Ca_kabuli_chr01	38761414	CC	AA	1946743222
SNP_P4_14558_38761428	NC_021160.1	Ca_kabuli_chr01	38761428	AA	GG	1946743224
SNP_P4_14559_38762539	NC_021160.1	Ca_kabuli_chr01	38762539	GG	TT	1946743226
SNP_P4_14560_38762833	NC_021160.1	Ca_kabuli_chr01	38762833	GG	AA	1946743228
SNP_P4_14561_38763083	NC_021160.1	Ca_kabuli_chr01	38763083	TT	AA	1946743230
SNP_P4_14562_38763092	NC_021160.1	Ca_kabuli_chr01	38763092	GG	AA	1946743232
SNP_P4_14563_38763098	NC_021160.1	Ca_kabuli_chr01	38763098	AA	GG	1946743234
SNP_P4_14564_38763109	NC_021160.1	Ca_kabuli_chr01	38763109	CC	GG	1946743236
SNP_P4_14565_38763123	NC_021160.1	Ca_kabuli_chr01	38763123	AA	TT	1946743238
SNP_P4_14566_38765016	NC_021160.1	Ca_kabuli_chr01	38765016	GG	AA	1946743241
SNP_P4_14567_38765056	NC_021160.1	Ca_kabuli_chr01	38765056	AA	TT	1946743243
SNP_P4_14568_38766323	NC_021160.1	Ca_kabuli_chr01	38766323	TT	GG	1946743245
SNP_P4_14570_38769731	NC_021160.1	Ca_kabuli_chr01	38769731	GG	AA	1946743247
SNP_P4_14571_38769752	NC_021160.1	Ca_kabuli_chr01	38769752	AA	GG	1946743249
SNP_P4_14572_38769959	NC_021160.1	Ca_kabuli_chr01	38769959	CC	TT	1946743251
SNP_P4_14573_38769962	NC_021160.1	Ca_kabuli_chr01	38769962	GG	TT	1946743252
SNP_P4_14574_38770243	NC_021160.1	Ca_kabuli_chr01	38770243	CC	AA	1946743255
SNP_P4_14575_38770244	NC_021160.1	Ca_kabuli_chr01	38770244	AA	TT	1946743257
SNP_P4_14576_38770288	NC_021160.1	Ca_kabuli_chr01	38770288	TT	CC	1946743258
SNP_P4_14577_38770740	NC_021160.1	Ca_kabuli_chr01	38770740	CC	AA	1946743260
SNP_P4_14578_38770743	NC_021160.1	Ca_kabuli_chr01	38770743	AA	GG	1946743262
SNP_P4_14579_38770997	NC_021160.1	Ca_kabuli_chr01	38770997	CC	TT	1946743264

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_14584_38773884	NC_021160.1	Ca_kabuli_chr01	38773884	TT	CC	1946743271
SNP_P4_14585_38774012	NC_021160.1	Ca_kabuli_chr01	38774012	GG	AA	1946743273
SNP_P4_14586_38774194	NC_021160.1	Ca_kabuli_chr01	38774194	TT	AA	1946743275
SNP_P4_14587_38774262	NC_021160.1	Ca_kabuli_chr01	38774262	CC	TT	1946743277
SNP_P4_14588_38774274	NC_021160.1	Ca_kabuli_chr01	38774274	TT	CC	1946743279
SNP_P4_14589_38774304	NC_021160.1	Ca_kabuli_chr01	38774304	AA	CC	1946743281
SNP_P4_14590_38775140	NC_021160.1	Ca_kabuli_chr01	38775140	CC	TT	1946743283
SNP_P4_14591_38775174	NC_021160.1	Ca_kabuli_chr01	38775174	GG	AA	1946743285
SNP_P4_14592_38775192	NC_021160.1	Ca_kabuli_chr01	38775192	GG	AA	1946743287
SNP_P4_14593_38775211	NC_021160.1	Ca_kabuli_chr01	38775211	GG	CC	1946743289
SNP_P4_14594_38775744	NC_021160.1	Ca_kabuli_chr01	38775744	GG	AA	1946743291
SNP_P4_14595_38775752	NC_021160.1	Ca_kabuli_chr01	38775752	AA	GG	1946743293
SNP_P4_14596_38775936	NC_021160.1	Ca_kabuli_chr01	38775936	TT	CC	1946743295
SNP_P4_14597_38775938	NC_021160.1	Ca_kabuli_chr01	38775938	GG	TT	1946743297
SNP_P4_14598_38775976	NC_021160.1	Ca_kabuli_chr01	38775976	AA	GG	1946743299
SNP_P4_14599_38776199	NC_021160.1	Ca_kabuli_chr01	38776199	TT	AA	1946743301
SNP_P4_14600_38776209	NC_021160.1	Ca_kabuli_chr01	38776209	TT	CC	1946743303
SNP_P4_14601_38776230	NC_021160.1	Ca_kabuli_chr01	38776230	TT	GG	1946743305
SNP_P4_14602_38777406	NC_021160.1	Ca_kabuli_chr01	38777406	CC	TT	1946743307
SNP_P4_14603_38777588	NC_021160.1	Ca_kabuli_chr01	38777588	TT	CC	1946743309
SNP_P4_14604_38778996	NC_021160.1	Ca_kabuli_chr01	38778996	CC	TT	1946743311
SNP_P4_14605_38779398	NC_021160.1	Ca_kabuli_chr01	38779398	AA	CC	1946743313
SNP_P4_14606_38779408	NC_021160.1	Ca_kabuli_chr01	38779408	AA	GG	1946743315
SNP_P4_14607_38780937	NC_021160.1	Ca_kabuli_chr01	38780937	TT	AA	1946743317
SNP_P4_14608_38781211	NC_021160.1	Ca_kabuli_chr01	38781211	AA	GG	1946743319
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SNP_P4_14610_38781232	NC_021160.1	Ca_kabuli_chr01	38781232	CC	AA	1946743323
SNP_P4_14611_38781250	NC_021160.1	Ca_kabuli_chr01	38781250	CC	TT	1946743325
SNP_P4_14612_38781586	NC_021160.1	Ca_kabuli_chr01	38781586	GG	AA	1946743327
SNP_P4_14613_38781608	NC_021160.1	Ca_kabuli_chr01	38781608	AA	GG	1946743329
SNP_P4_14614_38781610	NC_021160.1	Ca_kabuli_chr01	38781610	CC	TT	1946743331
SNP_P4_14615_38781616	NC_021160.1	Ca_kabuli_chr01	38781616	AA	GG	1946743333
SNP_P4_14616_38781625	NC_021160.1	Ca_kabuli_chr01	38781625	CC	TT	1946743335
SNP_P4_14617_38781958	NC_021160.1	Ca_kabuli_chr01	38781958	GG	TT	1946743337
SNP_P4_14618_38781959	NC_021160.1	Ca_kabuli_chr01	38781959	TT	AA	1946743339
SNP_P4_14619_38787208	NC_021160.1	Ca_kabuli_chr01	38787208	CC	TT	1946743341
SNP_P4_14621_38792344	NC_021160.1	Ca_kabuli_chr01	38792344	AA	GG	1946743343
SNP_P4_14622_38792642	NC_021160.1	Ca_kabuli_chr01	38792642	CC	TT	1946743345
SNP_P4_14623_38792697	NC_021160.1	Ca_kabuli_chr01	38792697	TT	GG	1946743347
SNP_P4_14624_38793223	NC_021160.1	Ca_kabuli_chr01	38793223	TT	CC	1946743349

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_14627_38800044	NC_021160.1	Ca_kabuli_chr01	38800044	TT	GG	1946743355
SNP_P4_14628_38800045	NC_021160.1	Ca_kabuli_chr01	38800045	GG	AA	1946743357
SNP_P4_14629_38800052	NC_021160.1	Ca_kabuli_chr01	38800052	GG	AA	1946743359
SNP_P4_14630_38800053	NC_021160.1	Ca_kabuli_chr01	38800053	AA	GG	1946743361
SNP_P4_14631_38800233	NC_021160.1	Ca_kabuli_chr01	38800233	GG	CC	1946743363
SNP_P4_14632_38800282	NC_021160.1	Ca_kabuli_chr01	38800282	GG	AA	1946743365
SNP_P4_14634_38800633	NC_021160.1	Ca_kabuli_chr01	38800633	TT	AA	1946743367
SNP_P4_14635_38801616	NC_021160.1	Ca_kabuli_chr01	38801616	CC	TT	1946743369
SNP_P4_14636_38801643	NC_021160.1	Ca_kabuli_chr01	38801643	CC	AA	1946743372
SNP_P4_14637_38801842	NC_021160.1	Ca_kabuli_chr01	38801842	GG	TT	1946743374
SNP_P4_14638_38801876	NC_021160.1	Ca_kabuli_chr01	38801876	TT	AA	1946743375
SNP_P4_14639_38801967	NC_021160.1	Ca_kabuli_chr01	38801967	GG	TT	1946743377
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SNP_P4_14641_38802103	NC_021160.1	Ca_kabuli_chr01	38802103	TT	CC	1946743382
SNP_P4_14642_38802124	NC_021160.1	Ca_kabuli_chr01	38802124	TT	CC	1946743384
SNP_P4_14643_38811946	NC_021160.1	Ca_kabuli_chr01	38811946	CC	AA	1946743386
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SNP_P4_14646_38811985	NC_021160.1	Ca_kabuli_chr01	38811985	CC	TT	1946743392
SNP_P4_14647_38812780	NC_021160.1	Ca_kabuli_chr01	38812780	AA	CC	1946743394
SNP_P4_14648_38813346	NC_021160.1	Ca_kabuli_chr01	38813346	AA	GG	1946743396
SNP_P4_14649_38814430	NC_021160.1	Ca_kabuli_chr01	38814430	AA	GG	1946743398
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SNP_P4_14651_38814836	NC_021160.1	Ca_kabuli_chr01	38814836	TT	CC	1946743402
SNP_P4_14652_38815124	NC_021160.1	Ca_kabuli_chr01	38815124	GG	AA	1946743404
SNP_P4_14653_38815529	NC_021160.1	Ca_kabuli_chr01	38815529	TT	CC	1946743406
SNP_P4_14654_38815602	NC_021160.1	Ca_kabuli_chr01	38815602	CC	TT	1946743407
SNP_P4_14655_38815604	NC_021160.1	Ca_kabuli_chr01	38815604	TT	AA	1946743409
SNP_P4_14656_38816860	NC_021160.1	Ca_kabuli_chr01	38816860	GG	CC	1946743411
SNP_P4_14657_38816892	NC_021160.1	Ca_kabuli_chr01	38816892	CC	AA	1946743413
SNP_P4_14658_38841192	NC_021160.1	Ca_kabuli_chr01	38841192	AA	GG	1946743415
SNP_P4_14659_38841443	NC_021160.1	Ca_kabuli_chr01	38841443	TT	GG	1946743417
SNP_P4_14660_38841482	NC_021160.1	Ca_kabuli_chr01	38841482	TT	CC	1946743419
SNP_P4_14661_38841491	NC_021160.1	Ca_kabuli_chr01	38841491	AA	GG	1946743421
SNP_P4_14662_38843533	NC_021160.1	Ca_kabuli_chr01	38843533	GG	AA	1946743423
SNP_P4_14663_38844819	NC_021160.1	Ca_kabuli_chr01	38844819	CC	AA	1946743425
SNP_P4_14664_38845725	NC_021160.1	Ca_kabuli_chr01	38845725	TT	CC	1946743427
SNP_P4_14665_38846982	NC_021160.1	Ca_kabuli_chr01	38846982	TT	CC	1946743429
SNP_P4_14666_38847139	NC_021160.1	Ca_kabuli_chr01	38847139	GG	AA	1946743431
SNP_P4_14667_38847274	NC_021160.1	Ca_kabuli_chr01	38847274	CC	TT	1946743433

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_14669_38852596	NC_021160.1	Ca_kabuli_chr01	38852596	AA	GG	1946743437
SNP_P4_14670_38852836	NC_021160.1	Ca_kabuli_chr01	38852836	GG	AA	1946743439
SNP_P4_14671_38852855	NC_021160.1	Ca_kabuli_chr01	38852855	TT	CC	1946743441
SNP_P4_14673_38852966	NC_021160.1	Ca_kabuli_chr01	38852966	TT	CC	1946743443
SNP_P4_14675_38853256	NC_021160.1	Ca_kabuli_chr01	38853256	CC	TT	1946743445
SNP_P4_14676_38853394	NC_021160.1	Ca_kabuli_chr01	38853394	GG	TT	1946743447
SNP_P4_14677_38853570	NC_021160.1	Ca_kabuli_chr01	38853570	TT	CC	1946743449
SNP_P4_14678_38853635	NC_021160.1	Ca_kabuli_chr01	38853635	AA	GG	1946743451
SNP_P4_14680_38872279	NC_021160.1	Ca_kabuli_chr01	38872279	TT	AA	1946743453
SNP_P4_14681_38872280	NC_021160.1	Ca_kabuli_chr01	38872280	CC	TT	1946743455
SNP_P4_14683_38873004	NC_021160.1	Ca_kabuli_chr01	38873004	GG	AA	1946743457
SNP_P4_14684_38873390	NC_021160.1	Ca_kabuli_chr01	38873390	GG	TT	1946743459
SNP_P4_14685_38873860	NC_021160.1	Ca_kabuli_chr01	38873860	TT	CC	1946743461
SNP_P4_14686_38873947	NC_021160.1	Ca_kabuli_chr01	38873947	AA	GG	1946743463
SNP_P4_14687_38874064	NC_021160.1	Ca_kabuli_chr01	38874064	AA	GG	1946743465
SNP_P4_14690_38875631	NC_021160.1	Ca_kabuli_chr01	38875631	GG	AA	1946743467
SNP_P4_14692_38878819	NC_021160.1	Ca_kabuli_chr01	38878819	CC	TT	1946743469
SNP_P4_14694_38885519	NC_021160.1	Ca_kabuli_chr01	38885519	CC	TT	1946743471
SNP_P4_14695_38885724	NC_021160.1	Ca_kabuli_chr01	38885724	AA	GG	1946743473
SNP_P4_14696_38886299	NC_021160.1	Ca_kabuli_chr01	38886299	TT	GG	1946743475
SNP_P4_14698_38886603	NC_021160.1	Ca_kabuli_chr01	38886603	CC	TT	1946743477
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SNP_P4_14700_38886848	NC_021160.1	Ca_kabuli_chr01	38886848	GG	AA	1946743481
SNP_P4_14701_38887090	NC_021160.1	Ca_kabuli_chr01	38887090	AA	TT	1946743483
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SNP_P4_14703_38887143	NC_021160.1	Ca_kabuli_chr01	38887143	TT	CC	1946743487
SNP_P4_14705_38887211	NC_021160.1	Ca_kabuli_chr01	38887211	TT	CC	1946743489
SNP_P4_14706_38889343	NC_021160.1	Ca_kabuli_chr01	38889343	GG	AA	1946743491
SNP_P4_14708_38891053	NC_021160.1	Ca_kabuli_chr01	38891053	GG	AA	1946743493
SNP_P4_14709_38893079	NC_021160.1	Ca_kabuli_chr01	38893079	CC	TT	1946743495
SNP_P4_14710_38894879	NC_021160.1	Ca_kabuli_chr01	38894879	TT	AA	1946743497
SNP_P4_14712_38895350	NC_021160.1	Ca_kabuli_chr01	38895350	GG	TT	1946743499
SNP_P4_14714_38897231	NC_021160.1	Ca_kabuli_chr01	38897231	TT	AA	1946743501
SNP_P4_14715_38897240	NC_021160.1	Ca_kabuli_chr01	38897240	TT	CC	1946743503
SNP_P4_14716_38897241	NC_021160.1	Ca_kabuli_chr01	38897241	GG	AA	1946743505
SNP_P4_14717_38897499	NC_021160.1	Ca_kabuli_chr01	38897499	AA	GG	1946743507
SNP_P4_14719_38914834	NC_021160.1	Ca_kabuli_chr01	38914834	GG	TT	1946743509
SNP_P4_14720_38914841	NC_021160.1	Ca_kabuli_chr01	38914841	TT	AA	1946743511
SNP_P4_14721_38914851	NC_021160.1	Ca_kabuli_chr01	38914851	TT	CC	1946743513
SNP_P4_14722_38915404	NC_021160.1	Ca_kabuli_chr01	38915404	TT	GG	1946743515
SNP_P4_14723_38915410	NC_021160.1	Ca_kabuli_chr01	38915410	AA	CC	1946743517

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_14726_38917237	NC_021160.1	Ca_kabuli_chr01	38917237	TT	AA	1946743520
SNP_P4_14727_38917288	NC_021160.1	Ca_kabuli_chr01	38917288	AA	GG	1946743522
SNP_P4_14728_38919267	NC_021160.1	Ca_kabuli_chr01	38919267	TT	CC	1946743524
SNP_P4_14729_38921725	NC_021160.1	Ca_kabuli_chr01	38921725	GG	TT	1946743526
SNP_P4_14731_38923028	NC_021160.1	Ca_kabuli_chr01	38923028	TT	CC	1946743528
SNP_P4_14732_38923199	NC_021160.1	Ca_kabuli_chr01	38923199	CC	AA	1946743530
SNP_P4_14733_38923552	NC_021160.1	Ca_kabuli_chr01	38923552	AA	GG	1946743532
SNP_P4_14734_38932536	NC_021160.1	Ca_kabuli_chr01	38932536	TT	AA	1946743534
SNP_P4_14735_38932596	NC_021160.1	Ca_kabuli_chr01	38932596	GG	TT	1946743536
SNP_P4_14737_38942525	NC_021160.1	Ca_kabuli_chr01	38942525	CC	TT	1946743538
SNP_P4_14738_38942638	NC_021160.1	Ca_kabuli_chr01	38942638	CC	AA	1946743540
SNP_P4_14739_38943000	NC_021160.1	Ca_kabuli_chr01	38943000	GG	TT	1946743542
SNP_P4_14742_38944694	NC_021160.1	Ca_kabuli_chr01	38944694	CC	GG	1946743544
SNP_P4_14743_38944708	NC_021160.1	Ca_kabuli_chr01	38944708	CC	TT	1946743546
SNP_P4_14744_38944752	NC_021160.1	Ca_kabuli_chr01	38944752	AA	CC	1946743548
SNP_P4_14746_38945339	NC_021160.1	Ca_kabuli_chr01	38945339	TT	GG	1946743550
SNP_P4_14747_38947466	NC_021160.1	Ca_kabuli_chr01	38947466	GG	AA	1946743552
SNP_P4_14748_38947651	NC_021160.1	Ca_kabuli_chr01	38947651	AA	CC	1946743554
SNP_P4_14749_38947694	NC_021160.1	Ca_kabuli_chr01	38947694	AA	CC	1946743556
SNP_P4_14750_38948311	NC_021160.1	Ca_kabuli_chr01	38948311	AA	GG	1946743558
SNP_P4_14751_38948374	NC_021160.1	Ca_kabuli_chr01	38948374	AA	GG	1946743560
SNP_P4_14752_38948381	NC_021160.1	Ca_kabuli_chr01	38948381	CC	TT	1946743562
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SNP_P4_14757_38949750	NC_021160.1	Ca_kabuli_chr01	38949750	CC	GG	1946743572
SNP_P4_14758_38949751	NC_021160.1	Ca_kabuli_chr01	38949751	CC	AA	1946743574
SNP_P4_14759_38949754	NC_021160.1	Ca_kabuli_chr01	38949754	AA	GG	1946743576
SNP_P4_14760_38950103	NC_021160.1	Ca_kabuli_chr01	38950103	TT	CC	1946743578
SNP_P4_14761_38951492	NC_021160.1	Ca_kabuli_chr01	38951492	TT	CC	1946743580
SNP_P4_14762_38951750	NC_021160.1	Ca_kabuli_chr01	38951750	AA	CC	1946743582
SNP_P4_14763_38953636	NC_021160.1	Ca_kabuli_chr01	38953636	TT	AA	1946743584
SNP_P4_14764_38958221	NC_021160.1	Ca_kabuli_chr01	38958221	CC	TT	1946743586
SNP_P4_14765_38958559	NC_021160.1	Ca_kabuli_chr01	38958559	GG	AA	1946743588
SNP_P4_14766_38960770	NC_021160.1	Ca_kabuli_chr01	38960770	CC	TT	1946743591
SNP_P4_14767_38971253	NC_021160.1	Ca_kabuli_chr01	38971253	GG	CC	1946743593
SNP_P4_14768_39002482	NC_021160.1	Ca_kabuli_chr01	39002482	CC	TT	1946743595
SNP_P4_14769_39002532	NC_021160.1	Ca_kabuli_chr01	39002532	GG	CC	1946743597
SNP_P4_14770_39003776	NC_021160.1	Ca_kabuli_chr01	39003776	TT	CC	1946743599
SNP_P4_14771_39005071	NC_021160.1	Ca_kabuli_chr01	39005071	CC	AA	1946743601

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_14773_39007275	NC_021160.1	Ca_kabuli_chr01	39007275	AA	GG	1946743605
SNP_P4_14774_39010422	NC_021160.1	Ca_kabuli_chr01	39010422	GG	TT	1946743607
SNP_P4_14775_39010799	NC_021160.1	Ca_kabuli_chr01	39010799	AA	GG	1946743609
SNP_P4_14776_39012684	NC_021160.1	Ca_kabuli_chr01	39012684	CC	AA	1946743611
SNP_P4_14777_39013536	NC_021160.1	Ca_kabuli_chr01	39013536	TT	GG	1946743613
SNP_P4_14778_39013779	NC_021160.1	Ca_kabuli_chr01	39013779	TT	CC	1946743615
SNP_P4_14779_39013819	NC_021160.1	Ca_kabuli_chr01	39013819	TT	GG	1946743617
SNP_P4_14780_39013972	NC_021160.1	Ca_kabuli_chr01	39013972	GG	AA	1946743619
SNP_P4_14781_39014737	NC_021160.1	Ca_kabuli_chr01	39014737	TT	CC	1946743621
SNP_P4_14782_39015376	NC_021160.1	Ca_kabuli_chr01	39015376	CC	TT	1946743623
SNP_P4_14783_39015756	NC_021160.1	Ca_kabuli_chr01	39015756	TT	AA	1946743625
SNP_P4_14784_39015942	NC_021160.1	Ca_kabuli_chr01	39015942	TT	GG	1946743627
SNP_P4_14785_39016755	NC_021160.1	Ca_kabuli_chr01	39016755	AA	GG	1946743629
SNP_P4_14786_39016757	NC_021160.1	Ca_kabuli_chr01	39016757	GG	AA	1946743631
SNP_P4_14787_39016819	NC_021160.1	Ca_kabuli_chr01	39016819	TT	GG	1946743633
SNP_P4_14788_39018745	NC_021160.1	Ca_kabuli_chr01	39018745	AA	GG	1946743635
SNP_P4_14789_39020771	NC_021160.1	Ca_kabuli_chr01	39020771	GG	AA	1946743637
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SNP_P4_14794_39025307	NC_021160.1	Ca_kabuli_chr01	39025307	CC	TT	1946743647
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SNP_P4_14796_39026102	NC_021160.1	Ca_kabuli_chr01	39026102	CC	GG	1946743651
SNP_P4_14797_39026474	NC_021160.1	Ca_kabuli_chr01	39026474	AA	GG	1946743653
SNP_P4_14798_39026974	NC_021160.1	Ca_kabuli_chr01	39026974	TT	GG	1946743655
SNP_P4_14799_39026994	NC_021160.1	Ca_kabuli_chr01	39026994	GG	TT	1946743657
SNP_P4_14800_39027557	NC_021160.1	Ca_kabuli_chr01	39027557	GG	AA	1946743659
SNP_P4_14801_39027585	NC_021160.1	Ca_kabuli_chr01	39027585	TT	AA	1946743661
SNP_P4_14802_39027598	NC_021160.1	Ca_kabuli_chr01	39027598	AA	CC	1946743663
SNP_P4_14804_39027909	NC_021160.1	Ca_kabuli_chr01	39027909	AA	TT	1946743665
SNP_P4_14806_39030901	NC_021160.1	Ca_kabuli_chr01	39030901	GG	AA	1946743667
SNP_P4_14807_39037726	NC_021160.1	Ca_kabuli_chr01	39037726	GG	AA	1946743669
SNP_P4_14808_39039865	NC_021160.1	Ca_kabuli_chr01	39039865	AA	TT	1946743671
SNP_P4_14809_39040109	NC_021160.1	Ca_kabuli_chr01	39040109	AA	CC	1946743673
SNP_P4_14810_39040390	NC_021160.1	Ca_kabuli_chr01	39040390	AA	CC	1946743675
SNP_P4_14812_39041665	NC_021160.1	Ca_kabuli_chr01	39041665	TT	AA	1946743677
SNP_P4_14813_39041681	NC_021160.1	Ca_kabuli_chr01	39041681	AA	TT	1946743679
SNP_P4_14814_39041697	NC_021160.1	Ca_kabuli_chr01	39041697	TT	GG	1946743681
SNP_P4_14815_39041707	NC_021160.1	Ca_kabuli_chr01	39041707	CC	TT	1946743683
SNP_P4_14816_39042562	NC_021160.1	Ca_kabuli_chr01	39042562	GG	AA	1946743684

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_14819_39051202	NC_021160.1	Ca_kabuli_chr01	39051202	TT	CC	1946743690
SNP_P4_14820_39051214	NC_021160.1	Ca_kabuli_chr01	39051214	AA	CC	1946743692
SNP_P4_14821_39051233	NC_021160.1	Ca_kabuli_chr01	39051233	TT	CC	1946743694
SNP_P4_14822_39051236	NC_021160.1	Ca_kabuli_chr01	39051236	AA	GG	1946743696
SNP_P4_14823_39051244	NC_021160.1	Ca_kabuli_chr01	39051244	AA	CC	1946743698
SNP_P4_14824_39051247	NC_021160.1	Ca_kabuli_chr01	39051247	AA	CC	1946743700
SNP_P4_14825_39051277	NC_021160.1	Ca_kabuli_chr01	39051277	AA	GG	1946743702
SNP_P4_14826_39051316	NC_021160.1	Ca_kabuli_chr01	39051316	TT	CC	1946743704
SNP_P4_14827_39051318	NC_021160.1	Ca_kabuli_chr01	39051318	TT	GG	1946743706
SNP_P4_14828_39051336	NC_021160.1	Ca_kabuli_chr01	39051336	GG	TT	1946743708
SNP_P4_14829_39051420	NC_021160.1	Ca_kabuli_chr01	39051420	TT	AA	1946743710
SNP_P4_14830_39051434	NC_021160.1	Ca_kabuli_chr01	39051434	AA	CC	1946743712
SNP_P4_14831_39051438	NC_021160.1	Ca_kabuli_chr01	39051438	GG	AA	1946743714
SNP_P4_14832_39051454	NC_021160.1	Ca_kabuli_chr01	39051454	GG	AA	1946743716
SNP_P4_14833_39051466	NC_021160.1	Ca_kabuli_chr01	39051466	CC	AA	1946743718
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SNP_P4_14838_39055596	NC_021160.1	Ca_kabuli_chr01	39055596	GG	AA	1946743728
SNP_P4_14839_39055646	NC_021160.1	Ca_kabuli_chr01	39055646	TT	CC	1946743730
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SNP_P4_14842_39056224	NC_021160.1	Ca_kabuli_chr01	39056224	TT	CC	1946743734
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SNP_P4_14851_39065966	NC_021160.1	Ca_kabuli_chr01	39065966	AA	CC	1946743748
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SNP_P4_14856_39067137	NC_021160.1	Ca_kabuli_chr01	39067137	GG	AA	1946743758
SNP_P4_14857_39067140	NC_021160.1	Ca_kabuli_chr01	39067140	AA	TT	1946743760
SNP_P4_14858_39068082	NC_021160.1	Ca_kabuli_chr01	39068082	CC	AA	1946743762
SNP_P4_14860_39071055	NC_021160.1	Ca_kabuli_chr01	39071055	TT	CC	1946743764
SNP_P4_14861_39071184	NC_021160.1	Ca_kabuli_chr01	39071184	TT	CC	1946743766
SNP_P4_14862_39071941	NC_021160.1	Ca_kabuli_chr01	39071941	GG	AA	1946743768

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_14867_39073474	NC_021160.1	Ca_kabuli_chr01	39073474	AA	TT	1946743776
SNP_P4_14868_39073632	NC_021160.1	Ca_kabuli_chr01	39073632	GG	AA	1946743778
SNP_P4_14869_39073734	NC_021160.1	Ca_kabuli_chr01	39073734	TT	AA	1946743780
SNP_P4_14870_39073793	NC_021160.1	Ca_kabuli_chr01	39073793	TT	CC	1946743782
SNP_P4_14872_39073891	NC_021160.1	Ca_kabuli_chr01	39073891	CC	TT	1946743784
SNP_P4_14873_39073936	NC_021160.1	Ca_kabuli_chr01	39073936	CC	AA	1946743786
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SNP_P4_14878_39074435	NC_021160.1	Ca_kabuli_chr01	39074435	TT	GG	1946743796
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SNP_P4_14880_39074856	NC_021160.1	Ca_kabuli_chr01	39074856	CC	TT	1946743800
SNP_P4_14881_39074878	NC_021160.1	Ca_kabuli_chr01	39074878	AA	TT	1946743802
SNP_P4_14882_39074881	NC_021160.1	Ca_kabuli_chr01	39074881	AA	TT	1946743804
SNP_P4_14883_39074897	NC_021160.1	Ca_kabuli_chr01	39074897	GG	TT	1946743806
SNP_P4_14884_39074908	NC_021160.1	Ca_kabuli_chr01	39074908	TT	CC	1946743808
SNP_P4_14885_39074919	NC_021160.1	Ca_kabuli_chr01	39074919	GG	TT	1946743810
SNP_P4_14886_39074930	NC_021160.1	Ca_kabuli_chr01	39074930	CC	TT	1946743812
SNP_P4_14887_39074945	NC_021160.1	Ca_kabuli_chr01	39074945	TT	GG	1946743814
SNP_P4_14888_39074950	NC_021160.1	Ca_kabuli_chr01	39074950	AA	GG	1946743816
SNP_P4_14889_39074951	NC_021160.1	Ca_kabuli_chr01	39074951	CC	GG	1946743818
SNP_P4_14890_39075192	NC_021160.1	Ca_kabuli_chr01	39075192	CC	TT	1946743820
SNP_P4_14891_39077054	NC_021160.1	Ca_kabuli_chr01	39077054	AA	GG	1946743822
SNP_P4_14892_39077987	NC_021160.1	Ca_kabuli_chr01	39077987	CC	TT	1946743824
SNP_P4_14893_39078015	NC_021160.1	Ca_kabuli_chr01	39078015	TT	CC	1946743826
SNP_P4_14894_39079716	NC_021160.1	Ca_kabuli_chr01	39079716	AA	GG	1946743828
SNP_P4_14895_39080023	NC_021160.1	Ca_kabuli_chr01	39080023	CC	GG	1946743830
SNP_P4_14896_39081578	NC_021160.1	Ca_kabuli_chr01	39081578	CC	GG	1946743832
SNP_P4_14897_39081859	NC_021160.1	Ca_kabuli_chr01	39081859	TT	GG	1946743834
SNP_P4_14898_39081872	NC_021160.1	Ca_kabuli_chr01	39081872	CC	AA	1946743836
SNP_P4_14899_39081903	NC_021160.1	Ca_kabuli_chr01	39081903	TT	CC	1946743838
SNP_P4_14900_39083207	NC_021160.1	Ca_kabuli_chr01	39083207	GG	TT	1946743840
SNP_P4_14901_39083490	NC_021160.1	Ca_kabuli_chr01	39083490	GG	TT	1946743842
SNP_P4_14902_39094453	NC_021160.1	Ca_kabuli_chr01	39094453	GG	AA	1946743844
SNP_P4_14903_39094457	NC_021160.1	Ca_kabuli_chr01	39094457	TT	CC	1946743846
SNP_P4_14904_39096213	NC_021160.1	Ca_kabuli_chr01	39096213	CC	TT	1946743848
SNP_P4_14905_39096222	NC_021160.1	Ca_kabuli_chr01	39096222	CC	AA	1946743850
SNP_P4_14906_39096231	NC_021160.1	Ca_kabuli_chr01	39096231	AA	GG	1946743852

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_14908_39098487	NC_021160.1	Ca_kabuli_chr01	39098487	GG	AA	1946743856
SNP_P4_14909_39099018	NC_021160.1	Ca_kabuli_chr01	39099018	TT	CC	1946743858
SNP_P4_14910_39099102	NC_021160.1	Ca_kabuli_chr01	39099102	AA	GG	1946743860
SNP_P4_14911_39099779	NC_021160.1	Ca_kabuli_chr01	39099779	AA	TT	1946743862
SNP_P4_14912_39100067	NC_021160.1	Ca_kabuli_chr01	39100067	AA	CC	1946743864
SNP_P4_14913_39100380	NC_021160.1	Ca_kabuli_chr01	39100380	AA	GG	1946743866
SNP_P4_14914_39100390	NC_021160.1	Ca_kabuli_chr01	39100390	AA	GG	1946743868
SNP_P4_14915_39100580	NC_021160.1	Ca_kabuli_chr01	39100580	CC	AA	1946743869
SNP_P4_14916_39100583	NC_021160.1	Ca_kabuli_chr01	39100583	AA	TT	1946743871
SNP_P4_14917_39100613	NC_021160.1	Ca_kabuli_chr01	39100613	TT	AA	1946743873
SNP_P4_14918_39100628	NC_021160.1	Ca_kabuli_chr01	39100628	TT	CC	1946743875
SNP_P4_14919_39100867	NC_021160.1	Ca_kabuli_chr01	39100867	CC	AA	1946743877
SNP_P4_14920_39101107	NC_021160.1	Ca_kabuli_chr01	39101107	TT	CC	1946743879
SNP_P4_14921_39101139	NC_021160.1	Ca_kabuli_chr01	39101139	TT	CC	1946743881
SNP_P4_14922_39101157	NC_021160.1	Ca_kabuli_chr01	39101157	TT	CC	1946743883
SNP_P4_14924_39105157	NC_021160.1	Ca_kabuli_chr01	39105157	AA	CC	1946743885
SNP_P4_14925_39105183	NC_021160.1	Ca_kabuli_chr01	39105183	GG	CC	1946743887
SNP_P4_14926_39105210	NC_021160.1	Ca_kabuli_chr01	39105210	AA	GG	1946743889
SNP_P4_14927_39105217	NC_021160.1	Ca_kabuli_chr01	39105217	TT	CC	1946743891
SNP_P4_14928_39105246	NC_021160.1	Ca_kabuli_chr01	39105246	AA	GG	1946743892
SNP_P4_14929_39105251	NC_021160.1	Ca_kabuli_chr01	39105251	TT	CC	1946743894
SNP_P4_14931_39115839	NC_021160.1	Ca_kabuli_chr01	39115839	CC	TT	1946743896
SNP_P4_14932_39115907	NC_021160.1	Ca_kabuli_chr01	39115907	CC	TT	1946743898
SNP_P4_14933_39118819	NC_021160.1	Ca_kabuli_chr01	39118819	TT	GG	1946743900
SNP_P4_14934_39118834	NC_021160.1	Ca_kabuli_chr01	39118834	TT	CC	1946743902
SNP_P4_14935_39119058	NC_021160.1	Ca_kabuli_chr01	39119058	AA	CC	1946743904
SNP_P4_14936_39126083	NC_021160.1	Ca_kabuli_chr01	39126083	TT	AA	1946743906
SNP_P4_14937_39126093	NC_021160.1	Ca_kabuli_chr01	39126093	GG	TT	1946743908
SNP_P4_14938_39126103	NC_021160.1	Ca_kabuli_chr01	39126103	GG	AA	1946743910
SNP_P4_14939_39126139	NC_021160.1	Ca_kabuli_chr01	39126139	TT	GG	1946743912
SNP_P4_14940_39138384	NC_021160.1	Ca_kabuli_chr01	39138384	GG	AA	1946743914
SNP_P4_14941_39138392	NC_021160.1	Ca_kabuli_chr01	39138392	GG	AA	1946743916
SNP_P4_14942_39138457	NC_021160.1	Ca_kabuli_chr01	39138457	AA	GG	1946743918
SNP_P4_14943_39138465	NC_021160.1	Ca_kabuli_chr01	39138465	AA	CC	1946743920
SNP_P4_14944_39138466	NC_021160.1	Ca_kabuli_chr01	39138466	CC	TT	1946743922
SNP_P4_14945_39138557	NC_021160.1	Ca_kabuli_chr01	39138557	GG	AA	1946743924
SNP_P4_14946_39138623	NC_021160.1	Ca_kabuli_chr01	39138623	AA	GG	1946743927
SNP_P4_14947_39138649	NC_021160.1	Ca_kabuli_chr01	39138649	CC	TT	1946743929
SNP_P4_14948_39138650	NC_021160.1	Ca_kabuli_chr01	39138650	AA	CC	1946743930
SNP_P4_14949_39138698	NC_021160.1	Ca_kabuli_chr01	39138698	CC	TT	1946743932
SNP_P4_14950_39138715	NC_021160.1	Ca_kabuli_chr01	39138715	GG	AA	1946743934

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_14953_39138755	NC_021160.1	Ca_kabuli_chr01	39138755	TT	CC	1946743940
SNP_P4_14954_39138759	NC_021160.1	Ca_kabuli_chr01	39138759	AA	CC	1946743942
SNP_P4_14955_39138787	NC_021160.1	Ca_kabuli_chr01	39138787	CC	TT	1946743944
SNP_P4_14956_39138863	NC_021160.1	Ca_kabuli_chr01	39138863	TT	CC	1946743946
SNP_P4_14957_39139025	NC_021160.1	Ca_kabuli_chr01	39139025	GG	AA	1946743948
SNP_P4_14958_39139032	NC_021160.1	Ca_kabuli_chr01	39139032	CC	TT	1946743950
SNP_P4_14959_39139080	NC_021160.1	Ca_kabuli_chr01	39139080	AA	TT	1946743952
SNP_P4_14960_39139087	NC_021160.1	Ca_kabuli_chr01	39139087	GG	CC	1946743954
SNP_P4_14961_39139097	NC_021160.1	Ca_kabuli_chr01	39139097	TT	CC	1946743956
SNP_P4_14962_39139110	NC_021160.1	Ca_kabuli_chr01	39139110	AA	TT	1946743958
SNP_P4_14963_39139146	NC_021160.1	Ca_kabuli_chr01	39139146	AA	TT	1946743960
SNP_P4_14964_39139159	NC_021160.1	Ca_kabuli_chr01	39139159	AA	CC	1946743962
SNP_P4_14965_39139230	NC_021160.1	Ca_kabuli_chr01	39139230	GG	TT	1946743964
SNP_P4_14966_39139275	NC_021160.1	Ca_kabuli_chr01	39139275	GG	AA	1946743966
SNP_P4_14967_39139346	NC_021160.1	Ca_kabuli_chr01	39139346	GG	AA	1946743968
SNP_P4_14968_39139376	NC_021160.1	Ca_kabuli_chr01	39139376	CC	TT	1946743970
SNP_P4_14969_39139437	NC_021160.1	Ca_kabuli_chr01	39139437	CC	TT	1946743972
SNP_P4_14970_39139490	NC_021160.1	Ca_kabuli_chr01	39139490	CC	TT	1946743974
SNP_P4_14971_39140263	NC_021160.1	Ca_kabuli_chr01	39140263	CC	TT	1946743975
SNP_P4_14972_39140309	NC_021160.1	Ca_kabuli_chr01	39140309	AA	CC	1946743977
SNP_P4_14973_39140389	NC_021160.1	Ca_kabuli_chr01	39140389	AA	CC	1946743979
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SNP_P4_14975_39140473	NC_021160.1	Ca_kabuli_chr01	39140473	CC	AA	1946743981
SNP_P4_14976_39140520	NC_021160.1	Ca_kabuli_chr01	39140520	TT	CC	1946743983
SNP_P4_14977_39140654	NC_021160.1	Ca_kabuli_chr01	39140654	CC	TT	1946743985
SNP_P4_14978_39140797	NC_021160.1	Ca_kabuli_chr01	39140797	TT	AA	1946743987
SNP_P4_14979_39140802	NC_021160.1	Ca_kabuli_chr01	39140802	CC	AA	1946743988
SNP_P4_14980_39140866	NC_021160.1	Ca_kabuli_chr01	39140866	CC	TT	1946743990
SNP_P4_14981_39140868	NC_021160.1	Ca_kabuli_chr01	39140868	CC	TT	1946743992
SNP_P4_14982_39140881	NC_021160.1	Ca_kabuli_chr01	39140881	CC	AA	1946743994
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SNP_P4_14984_39141092	NC_021160.1	Ca_kabuli_chr01	39141092	CC	TT	1946743998
SNP_P4_14987_39144305	NC_021160.1	Ca_kabuli_chr01	39144305	CC	GG	1946744001
SNP_P4_14988_39144441	NC_021160.1	Ca_kabuli_chr01	39144441	TT	CC	1946744003
SNP_P4_14989_39144540	NC_021160.1	Ca_kabuli_chr01	39144540	TT	GG	1946744005
SNP_P4_14991_39145186	NC_021160.1	Ca_kabuli_chr01	39145186	AA	TT	1946744007
SNP_P4_14992_39145285	NC_021160.1	Ca_kabuli_chr01	39145285	AA	TT	1946744009
SNP_P4_14993_39146189	NC_021160.1	Ca_kabuli_chr01	39146189	AA	GG	1946744011
SNP_P4_14994_39147532	NC_021160.1	Ca_kabuli_chr01	39147532	TT	CC	1946744013
SNP_P4_14995_39149669	NC_021160.1	Ca_kabuli_chr01	39149669	AA	GG	1946744014

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_14997_39149980	NC_021160.1	Ca_kabuli_chr01	39149980	TT	CC	1946744018
SNP_P4_14998_39149999	NC_021160.1	Ca_kabuli_chr01	39149999	AA	CC	1946744020
SNP_P4_15000_39150039	NC_021160.1	Ca_kabuli_chr01	39150039	TT	CC	1946744022
SNP_P4_15001_39159969	NC_021160.1	Ca_kabuli_chr01	39159969	AA	GG	1946744024
SNP_P4_15002_39161233	NC_021160.1	Ca_kabuli_chr01	39161233	GG	TT	1946744026
SNP_P4_15003_39161539	NC_021160.1	Ca_kabuli_chr01	39161539	CC	TT	1946744028
SNP_P4_15004_39162077	NC_021160.1	Ca_kabuli_chr01	39162077	CC	TT	1946744029
SNP_P4_15005_39162091	NC_021160.1	Ca_kabuli_chr01	39162091	CC	TT	1946744031
SNP_P4_15006_39165176	NC_021160.1	Ca_kabuli_chr01	39165176	GG	AA	1946744033
SNP_P4_15007_39166535	NC_021160.1	Ca_kabuli_chr01	39166535	GG	AA	1946744035
SNP_P4_15008_39166570	NC_021160.1	Ca_kabuli_chr01	39166570	AA	TT	1946744037
SNP_P4_15009_39166600	NC_021160.1	Ca_kabuli_chr01	39166600	CC	AA	1946744039
SNP_P4_15010_39166634	NC_021160.1	Ca_kabuli_chr01	39166634	CC	GG	1946744041
SNP_P4_15011_39166660	NC_021160.1	Ca_kabuli_chr01	39166660	CC	TT	1946744043
SNP_P4_15012_39166704	NC_021160.1	Ca_kabuli_chr01	39166704	GG	CC	1946744045
SNP_P4_15013_39166929	NC_021160.1	Ca_kabuli_chr01	39166929	CC	TT	1946744047
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SNP_P4_15015_39166942	NC_021160.1	Ca_kabuli_chr01	39166942	CC	TT	1946744050
SNP_P4_15016_39166980	NC_021160.1	Ca_kabuli_chr01	39166980	AA	GG	1946744053
SNP_P4_15017_39196391	NC_021160.1	Ca_kabuli_chr01	39196391	TT	AA	1946744055
SNP_P4_15018_39196618	NC_021160.1	Ca_kabuli_chr01	39196618	CC	TT	1946744056
SNP_P4_15019_39227909	NC_021160.1	Ca_kabuli_chr01	39227909	TT	AA	1946744058
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SNP_P4_15023_39240124	NC_021160.1	Ca_kabuli_chr01	39240124	GG	AA	1946744067
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SNP_P4_15026_39250791	NC_021160.1	Ca_kabuli_chr01	39250791	AA	CC	1946744073
SNP_P4_15027_39253456	NC_021160.1	Ca_kabuli_chr01	39253456	GG	CC	1946744075
SNP_P4_15029_39261348	NC_021160.1	Ca_kabuli_chr01	39261348	AA	GG	1946744077
SNP_P4_15030_39261356	NC_021160.1	Ca_kabuli_chr01	39261356	GG	AA	1946744079
SNP_P4_15031_39261411	NC_021160.1	Ca_kabuli_chr01	39261411	TT	CC	1946744081
SNP_P4_15032_39261423	NC_021160.1	Ca_kabuli_chr01	39261423	TT	AA	1946744083
SNP_P4_15033_39261477	NC_021160.1	Ca_kabuli_chr01	39261477	GG	TT	1946744086
SNP_P4_15034_39261622	NC_021160.1	Ca_kabuli_chr01	39261622	GG	AA	1946744088
SNP_P4_15035_39261781	NC_021160.1	Ca_kabuli_chr01	39261781	GG	AA	1946744090
SNP_P4_15036_39261967	NC_021160.1	Ca_kabuli_chr01	39261967	GG	AA	1946744092
SNP_P4_15038_39262032	NC_021160.1	Ca_kabuli_chr01	39262032	AA	GG	1946744094
SNP_P4_15039_39262095	NC_021160.1	Ca_kabuli_chr01	39262095	CC	GG	1946744096
SNP_P4_15040_39262114	NC_021160.1	Ca_kabuli_chr01	39262114	AA	TT	1946744098

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_15043_39262576	NC_021160.1	Ca_kabuli_chr01	39262576	GG	AA	1946744104
SNP_P4_15044_39262591	NC_021160.1	Ca_kabuli_chr01	39262591	TT	GG	1946744106
SNP_P4_15045_39262616	NC_021160.1	Ca_kabuli_chr01	39262616	AA	TT	1946744108
SNP_P4_15046_39264343	NC_021160.1	Ca_kabuli_chr01	39264343	CC	AA	1946744110
SNP_P4_15047_39264355	NC_021160.1	Ca_kabuli_chr01	39264355	GG	CC	1946744112
SNP_P4_15048_39264591	NC_021160.1	Ca_kabuli_chr01	39264591	GG	AA	1946744114
SNP_P4_15049_39264647	NC_021160.1	Ca_kabuli_chr01	39264647	GG	AA	1946744116
SNP_P4_15050_39264651	NC_021160.1	Ca_kabuli_chr01	39264651	CC	GG	1946744118
SNP_P4_15051_39264673	NC_021160.1	Ca_kabuli_chr01	39264673	GG	AA	1946744120
SNP_P4_15052_39264722	NC_021160.1	Ca_kabuli_chr01	39264722	AA	CC	1946744122
SNP_P4_15053_39264744	NC_021160.1	Ca_kabuli_chr01	39264744	GG	CC	1946744124
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SNP_P4_15055_39264950	NC_021160.1	Ca_kabuli_chr01	39264950	TT	CC	1946744128
SNP_P4_15056_39265052	NC_021160.1	Ca_kabuli_chr01	39265052	GG	AA	1946744130
SNP_P4_15057_39265056	NC_021160.1	Ca_kabuli_chr01	39265056	CC	TT	1946744131
SNP_P4_15059_39265224	NC_021160.1	Ca_kabuli_chr01	39265224	CC	GG	1946744133
SNP_P4_15060_39265303	NC_021160.1	Ca_kabuli_chr01	39265303	CC	TT	1946744135
SNP_P4_15061_39265360	NC_021160.1	Ca_kabuli_chr01	39265360	AA	GG	1946744137
SNP_P4_15062_39268793	NC_021160.1	Ca_kabuli_chr01	39268793	GG	AA	1946744139
SNP_P4_15063_39271813	NC_021160.1	Ca_kabuli_chr01	39271813	GG	TT	1946744141
SNP_P4_15064_39274552	NC_021160.1	Ca_kabuli_chr01	39274552	CC	TT	1946744143
SNP_P4_15065_39275470	NC_021160.1	Ca_kabuli_chr01	39275470	GG	AA	1946744145
SNP_P4_15066_39281418	NC_021160.1	Ca_kabuli_chr01	39281418	CC	TT	1946744147
SNP_P4_15067_39285070	NC_021160.1	Ca_kabuli_chr01	39285070	AA	GG	1946744149
SNP_P4_15068_39286484	NC_021160.1	Ca_kabuli_chr01	39286484	TT	CC	1946744152
SNP_P4_15069_39292479	NC_021160.1	Ca_kabuli_chr01	39292479	TT	AA	1946744154
SNP_P4_15071_39294461	NC_021160.1	Ca_kabuli_chr01	39294461	CC	TT	1946744156
SNP_P4_15072_39294508	NC_021160.1	Ca_kabuli_chr01	39294508	GG	AA	1946744158
SNP_P4_15073_39294655	NC_021160.1	Ca_kabuli_chr01	39294655	TT	CC	1946744160
SNP_P4_15074_39294685	NC_021160.1	Ca_kabuli_chr01	39294685	AA	GG	1946744162
SNP_P4_15075_39299760	NC_021160.1	Ca_kabuli_chr01	39299760	CC	TT	1946744163
SNP_P4_15077_39308963	NC_021160.1	Ca_kabuli_chr01	39308963	GG	AA	1946744165
SNP_P4_15078_39309617	NC_021160.1	Ca_kabuli_chr01	39309617	AA	GG	1946744167
SNP_P4_15079_39311243	NC_021160.1	Ca_kabuli_chr01	39311243	CC	TT	1946744169
SNP_P4_15080_39313376	NC_021160.1	Ca_kabuli_chr01	39313376	CC	GG	1946744170
SNP_P4_15081_39317717	NC_021160.1	Ca_kabuli_chr01	39317717	TT	GG	1946744171
SNP_P4_15082_39318092	NC_021160.1	Ca_kabuli_chr01	39318092	TT	GG	1946744172
SNP_P4_15083_39318569	NC_021160.1	Ca_kabuli_chr01	39318569	TT	CC	1946744173
SNP_P4_15084_39318934	NC_021160.1	Ca_kabuli_chr01	39318934	CC	TT	1946744174
SNP_P4_15085_39318936	NC_021160.1	Ca_kabuli_chr01	39318936	AA	TT	1946744175

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_15087_39320879	NC_021160.1	Ca_kabuli_chr01	39320879	CC	GG	1946744176
SNP_P4_15088_39320903	NC_021160.1	Ca_kabuli_chr01	39320903	GG	AA	1946744177
SNP_P4_15089_39321277	NC_021160.1	Ca_kabuli_chr01	39321277	AA	TT	1946744178
SNP_P4_15090_39332457	NC_021160.1	Ca_kabuli_chr01	39332457	TT	CC	1946744179
SNP_P4_15091_39334436	NC_021160.1	Ca_kabuli_chr01	39334436	GG	TT	1946744180
SNP_P4_15092_39334541	NC_021160.1	Ca_kabuli_chr01	39334541	CC	TT	1946744181
SNP_P4_15093_39334557	NC_021160.1	Ca_kabuli_chr01	39334557	GG	CC	1946744182
SNP_P4_15094_39334574	NC_021160.1	Ca_kabuli_chr01	39334574	CC	TT	1946744183
SNP_P4_15095_39334576	NC_021160.1	Ca_kabuli_chr01	39334576	TT	CC	1946744184
SNP_P4_15096_39334579	NC_021160.1	Ca_kabuli_chr01	39334579	TT	CC	1946744185
SNP_P4_15097_39334585	NC_021160.1	Ca_kabuli_chr01	39334585	TT	AA	1946744186
SNP_P4_15098_39334770	NC_021160.1	Ca_kabuli_chr01	39334770	GG	AA	1946744187
SNP_P4_15099_39334793	NC_021160.1	Ca_kabuli_chr01	39334793	AA	TT	1946744188
SNP_P4_15100_39334809	NC_021160.1	Ca_kabuli_chr01	39334809	TT	CC	1946744189
SNP_P4_15101_39334810	NC_021160.1	Ca_kabuli_chr01	39334810	AA	GG	1946744190
SNP_P4_15102_39334812	NC_021160.1	Ca_kabuli_chr01	39334812	GG	AA	1946744191
SNP_P4_15103_39334823	NC_021160.1	Ca_kabuli_chr01	39334823	AA	CC	1946744192
SNP_P4_15105_39334835	NC_021160.1	Ca_kabuli_chr01	39334835	AA	TT	1946744193
SNP_P4_15106_39334869	NC_021160.1	Ca_kabuli_chr01	39334869	CC	TT	1946744194
SNP_P4_15107_39335016	NC_021160.1	Ca_kabuli_chr01	39335016	GG	AA	1946744195
SNP_P4_15108_39366268	NC_021160.1	Ca_kabuli_chr01	39366268	CC	GG	1946744196
SNP_P4_15109_39366286	NC_021160.1	Ca_kabuli_chr01	39366286	GG	AA	1946744197
SNP_P4_15110_39366515	NC_021160.1	Ca_kabuli_chr01	39366515	GG	AA	1946744198
SNP_P4_15111_39377364	NC_021160.1	Ca_kabuli_chr01	39377364	AA	CC	1946744199
SNP_P4_15113_39384626	NC_021160.1	Ca_kabuli_chr01	39384626	AA	GG	1946744200
SNP_P4_15114_39385748	NC_021160.1	Ca_kabuli_chr01	39385748	CC	TT	1946744201
SNP_P4_15115_39386887	NC_021160.1	Ca_kabuli_chr01	39386887	AA	TT	1946744202
SNP_P4_15116_39386888	NC_021160.1	Ca_kabuli_chr01	39386888	AA	TT	1946744203
SNP_P4_15117_39386977	NC_021160.1	Ca_kabuli_chr01	39386977	TT	CC	1946744204
SNP_P4_15118_39387026	NC_021160.1	Ca_kabuli_chr01	39387026	TT	GG	1946744205
SNP_P4_15119_39387042	NC_021160.1	Ca_kabuli_chr01	39387042	TT	CC	1946744206
SNP_P4_15120_39387071	NC_021160.1	Ca_kabuli_chr01	39387071	CC	TT	1946744207
SNP_P4_15122_39387794	NC_021160.1	Ca_kabuli_chr01	39387794	CC	TT	1946744208
SNP_P4_15123_39387805	NC_021160.1	Ca_kabuli_chr01	39387805	GG	AA	1946744209
SNP_P4_15124_39387808	NC_021160.1	Ca_kabuli_chr01	39387808	TT	CC	1946744210
SNP_P4_15125_39388285	NC_021160.1	Ca_kabuli_chr01	39388285	AA	GG	1946744211
SNP_P4_15126_39388540	NC_021160.1	Ca_kabuli_chr01	39388540	GG	AA	1946744212
SNP_P4_15127_39388568	NC_021160.1	Ca_kabuli_chr01	39388568	AA	GG	1946744213
SNP_P4_15128_39388810	NC_021160.1	Ca_kabuli_chr01	39388810	GG	AA	1946744214
SNP_P4_15129_39388994	NC_021160.1	Ca_kabuli_chr01	39388994	AA	GG	1946744215
SNP_P4_15130_39389172	NC_021160.1	Ca_kabuli_chr01	39389172	AA	GG	1946744216
SNP_P4_15131_39389173	NC_021160.1	Ca_kabuli_chr01	39389173	GG	AA	1946744217

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_15132_39389755	NC_021160.1	Ca_kabuli_chr01	39389755	TT	GG	1946744218
SNP_P4_15133_39389885	NC_021160.1	Ca_kabuli_chr01	39389885	AA	TT	1946744219
SNP_P4_15134_39389896	NC_021160.1	Ca_kabuli_chr01	39389896	TT	CC	1946744220
SNP_P4_15135_39389924	NC_021160.1	Ca_kabuli_chr01	39389924	TT	CC	1946744221
SNP_P4_15136_39389940	NC_021160.1	Ca_kabuli_chr01	39389940	GG	AA	1946744222
SNP_P4_15137_39390693	NC_021160.1	Ca_kabuli_chr01	39390693	GG	AA	1946744223
SNP_P4_15138_39390705	NC_021160.1	Ca_kabuli_chr01	39390705	CC	TT	1946744224
SNP_P4_15139_39390740	NC_021160.1	Ca_kabuli_chr01	39390740	AA	TT	1946744225
SNP_P4_15140_39390793	NC_021160.1	Ca_kabuli_chr01	39390793	AA	GG	1946744226
SNP_P4_15141_39390920	NC_021160.1	Ca_kabuli_chr01	39390920	AA	TT	1946744227
SNP_P4_15143_39391007	NC_021160.1	Ca_kabuli_chr01	39391007	AA	CC	1946744228
SNP_P4_15144_39391019	NC_021160.1	Ca_kabuli_chr01	39391019	CC	AA	1946744229
SNP_P4_15145_39391082	NC_021160.1	Ca_kabuli_chr01	39391082	CC	TT	1946744230
SNP_P4_15146_39391083	NC_021160.1	Ca_kabuli_chr01	39391083	GG	TT	1946744231
SNP_P4_15147_39391199	NC_021160.1	Ca_kabuli_chr01	39391199	TT	CC	1946744232
SNP_P4_15148_39391237	NC_021160.1	Ca_kabuli_chr01	39391237	GG	CC	1946744233
SNP_P4_15150_39393114	NC_021160.1	Ca_kabuli_chr01	39393114	AA	GG	1946744234
SNP_P4_15151_39393123	NC_021160.1	Ca_kabuli_chr01	39393123	CC	TT	1946744235
SNP_P4_15152_39393306	NC_021160.1	Ca_kabuli_chr01	39393306	TT	GG	1946744236
SNP_P4_15153_39393612	NC_021160.1	Ca_kabuli_chr01	39393612	GG	AA	1946744237
SNP_P4_15154_39396974	NC_021160.1	Ca_kabuli_chr01	39396974	TT	GG	1946744238
SNP_P4_15155_39399054	NC_021160.1	Ca_kabuli_chr01	39399054	AA	CC	1946744239
SNP_P4_15158_39400839	NC_021160.1	Ca_kabuli_chr01	39400839	CC	AA	1946744240
SNP_P4_15160_39401147	NC_021160.1	Ca_kabuli_chr01	39401147	TT	GG	1946744241
SNP_P4_15161_39402387	NC_021160.1	Ca_kabuli_chr01	39402387	GG	AA	1946744242
SNP_P4_15164_39406682	NC_021160.1	Ca_kabuli_chr01	39406682	CC	TT	1946744243
SNP_P4_15165_39407258	NC_021160.1	Ca_kabuli_chr01	39407258	AA	GG	1946744244
SNP_P4_15166_39409179	NC_021160.1	Ca_kabuli_chr01	39409179	GG	TT	1946744245
SNP_P4_15167_39409656	NC_021160.1	Ca_kabuli_chr01	39409656	GG	AA	1946744246
SNP_P4_15168_39409844	NC_021160.1	Ca_kabuli_chr01	39409844	GG	AA	1946744247
SNP_P4_15169_39411610	NC_021160.1	Ca_kabuli_chr01	39411610	TT	CC	1946744249
SNP_P4_15170_39411629	NC_021160.1	Ca_kabuli_chr01	39411629	GG	AA	1946744251
SNP_P4_15171_39411659	NC_021160.1	Ca_kabuli_chr01	39411659	TT	CC	1946744253
SNP_P4_15172_39415361	NC_021160.1	Ca_kabuli_chr01	39415361	CC	TT	1946744254
SNP_P4_15173_39416388	NC_021160.1	Ca_kabuli_chr01	39416388	GG	AA	1946744256
SNP_P4_15174_39418743	NC_021160.1	Ca_kabuli_chr01	39418743	CC	TT	1946744258
SNP_P4_15175_39420491	NC_021160.1	Ca_kabuli_chr01	39420491	GG	CC	1946744260
SNP_P4_15176_39420678	NC_021160.1	Ca_kabuli_chr01	39420678	GG	AA	1946744262
SNP_P4_15177_39424344	NC_021160.1	Ca_kabuli_chr01	39424344	TT	CC	1946744264
SNP_P4_15178_39424356	NC_021160.1	Ca_kabuli_chr01	39424356	GG	AA	1946744266
SNP_P4_15179_39424383	NC_021160.1	Ca_kabuli_chr01	39424383	TT	CC	1946744268
SNP_P4_15180_39424444	NC_021160.1	Ca_kabuli_chr01	39424444	GG	AA	1946744270

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_15181_39424470	NC_021160.1	Ca_kabuli_chr01	39424470	CC	TT	1946744272
SNP_P4_15182_39424628	NC_021160.1	Ca_kabuli_chr01	39424628	GG	AA	1946744273
SNP_P4_15183_39425345	NC_021160.1	Ca_kabuli_chr01	39425345	TT	CC	1946744275
SNP_P4_15184_39428080	NC_021160.1	Ca_kabuli_chr01	39428080	CC	GG	1946744277
SNP_P4_15185_39428095	NC_021160.1	Ca_kabuli_chr01	39428095	CC	TT	1946744279
SNP_P4_15188_39428521	NC_021160.1	Ca_kabuli_chr01	39428521	AA	CC	1946744281
SNP_P4_15190_39430519	NC_021160.1	Ca_kabuli_chr01	39430519	TT	CC	1946744283
SNP_P4_15191_39430874	NC_021160.1	Ca_kabuli_chr01	39430874	TT	CC	1946744285
SNP_P4_15192_39430878	NC_021160.1	Ca_kabuli_chr01	39430878	TT	CC	1946744287
SNP_P4_15194_39431147	NC_021160.1	Ca_kabuli_chr01	39431147	AA	TT	1946744289
SNP_P4_15195_39431622	NC_021160.1	Ca_kabuli_chr01	39431622	CC	GG	1946744291
SNP_P4_15196_39431662	NC_021160.1	Ca_kabuli_chr01	39431662	TT	GG	1946744293
SNP_P4_15197_39431722	NC_021160.1	Ca_kabuli_chr01	39431722	GG	AA	1946744295
SNP_P4_15198_39431723	NC_021160.1	Ca_kabuli_chr01	39431723	AA	GG	1946744297
SNP_P4_15199_39431852	NC_021160.1	Ca_kabuli_chr01	39431852	AA	GG	1946744299
SNP_P4_15200_39431932	NC_021160.1	Ca_kabuli_chr01	39431932	TT	GG	1946744301
SNP_P4_15203_39433329	NC_021160.1	Ca_kabuli_chr01	39433329	GG	AA	1946744302
SNP_P4_15205_39433812	NC_021160.1	Ca_kabuli_chr01	39433812	TT	CC	1946744304
SNP_P4_15206_39433864	NC_021160.1	Ca_kabuli_chr01	39433864	CC	TT	1946744306
SNP_P4_15207_39434124	NC_021160.1	Ca_kabuli_chr01	39434124	CC	TT	1946744308
SNP_P4_15208_39434262	NC_021160.1	Ca_kabuli_chr01	39434262	AA	GG	1946744310
SNP_P4_15209_39434268	NC_021160.1	Ca_kabuli_chr01	39434268	AA	GG	1946744312
SNP_P4_15210_39434519	NC_021160.1	Ca_kabuli_chr01	39434519	TT	AA	1946744314
SNP_P4_15211_39435696	NC_021160.1	Ca_kabuli_chr01	39435696	CC	GG	1946744317
SNP_P4_15212_39435744	NC_021160.1	Ca_kabuli_chr01	39435744	GG	TT	1946744319
SNP_P4_15213_39437288	NC_021160.1	Ca_kabuli_chr01	39437288	TT	AA	1946744321
SNP_P4_15214_39437296	NC_021160.1	Ca_kabuli_chr01	39437296	TT	CC	1946744323
SNP_P4_15215_39437590	NC_021160.1	Ca_kabuli_chr01	39437590	GG	AA	1946744325
SNP_P4_15216_39437655	NC_021160.1	Ca_kabuli_chr01	39437655	CC	GG	1946744327
SNP_P4_15217_39438268	NC_021160.1	Ca_kabuli_chr01	39438268	GG	AA	1946744329
SNP_P4_15218_39439352	NC_021160.1	Ca_kabuli_chr01	39439352	AA	TT	1946744331
SNP_P4_15220_39440429	NC_021160.1	Ca_kabuli_chr01	39440429	TT	GG	1946744333
SNP_P4_15222_39441005	NC_021160.1	Ca_kabuli_chr01	39441005	CC	AA	1946744334
SNP_P4_15223_39441007	NC_021160.1	Ca_kabuli_chr01	39441007	TT	AA	1946744336
SNP_P4_15224_39441051	NC_021160.1	Ca_kabuli_chr01	39441051	TT	AA	1946744338
SNP_P4_15225_39441083	NC_021160.1	Ca_kabuli_chr01	39441083	AA	TT	1946744340
SNP_P4_15227_39441360	NC_021160.1	Ca_kabuli_chr01	39441360	TT	CC	1946744342
SNP_P4_15228_39441639	NC_021160.1	Ca_kabuli_chr01	39441639	AA	GG	1946744344
SNP_P4_15229_39441669	NC_021160.1	Ca_kabuli_chr01	39441669	AA	CC	1946744347
SNP_P4_15230_39442276	NC_021160.1	Ca_kabuli_chr01	39442276	CC	GG	1946744349
SNP_P4_15231_39442299	NC_021160.1	Ca_kabuli_chr01	39442299	CC	AA	1946744351
SNP_P4_15233_39442555	NC_021160.1	Ca_kabuli_chr01	39442555	AA	CC	1946744353

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_15236_39442633	NC_021160.1	Ca_kabuli_chr01	39442633	CC	TT	1946744357
SNP_P4_15237_39442784	NC_021160.1	Ca_kabuli_chr01	39442784	TT	CC	1946744359
SNP_P4_15239_39444582	NC_021160.1	Ca_kabuli_chr01	39444582	TT	AA	1946744361
SNP_P4_15241_39445828	NC_021160.1	Ca_kabuli_chr01	39445828	GG	CC	1946744363
SNP_P4_15242_39445839	NC_021160.1	Ca_kabuli_chr01	39445839	TT	GG	1946744365
SNP_P4_15243_39446556	NC_021160.1	Ca_kabuli_chr01	39446556	GG	AA	1946744367
SNP_P4_15244_39446560	NC_021160.1	Ca_kabuli_chr01	39446560	TT	CC	1946744369
SNP_P4_15245_39446564	NC_021160.1	Ca_kabuli_chr01	39446564	TT	GG	1946744371
SNP_P4_15246_39446583	NC_021160.1	Ca_kabuli_chr01	39446583	TT	CC	1946744374
SNP_P4_15247_39446592	NC_021160.1	Ca_kabuli_chr01	39446592	AA	CC	1946744376
SNP_P4_15248_39446594	NC_021160.1	Ca_kabuli_chr01	39446594	GG	CC	1946744378
SNP_P4_15249_39446756	NC_021160.1	Ca_kabuli_chr01	39446756	CC	TT	1946744380
SNP_P4_15251_39446884	NC_021160.1	Ca_kabuli_chr01	39446884	CC	TT	1946744382
SNP_P4_15253_39447142	NC_021160.1	Ca_kabuli_chr01	39447142	AA	GG	1946744384
SNP_P4_15254_39447584	NC_021160.1	Ca_kabuli_chr01	39447584	TT	AA	1946744386
SNP_P4_15255_39447613	NC_021160.1	Ca_kabuli_chr01	39447613	GG	AA	1946744388
SNP_P4_15256_39447619	NC_021160.1	Ca_kabuli_chr01	39447619	GG	AA	1946744390
SNP_P4_15257_39448570	NC_021160.1	Ca_kabuli_chr01	39448570	AA	GG	1946744392
SNP_P4_15258_39448592	NC_021160.1	Ca_kabuli_chr01	39448592	GG	AA	1946744394
SNP_P4_15259_39450508	NC_021160.1	Ca_kabuli_chr01	39450508	GG	AA	1946744396
SNP_P4_15261_39451966	NC_021160.1	Ca_kabuli_chr01	39451966	GG	AA	1946744399
SNP_P4_15262_39452376	NC_021160.1	Ca_kabuli_chr01	39452376	TT	CC	1946744401
SNP_P4_15263_39454691	NC_021160.1	Ca_kabuli_chr01	39454691	CC	TT	1946744403
SNP_P4_15264_39455748	NC_021160.1	Ca_kabuli_chr01	39455748	TT	CC	1946744405
SNP_P4_15265_39455756	NC_021160.1	Ca_kabuli_chr01	39455756	TT	CC	1946744407
SNP_P4_15266_39455800	NC_021160.1	Ca_kabuli_chr01	39455800	TT	CC	1946744409
SNP_P4_15267_39456535	NC_021160.1	Ca_kabuli_chr01	39456535	TT	GG	1946744411
SNP_P4_15268_39456537	NC_021160.1	Ca_kabuli_chr01	39456537	TT	GG	1946744413
SNP_P4_15269_39456572	NC_021160.1	Ca_kabuli_chr01	39456572	GG	AA	1946744415
SNP_P4_15270_39456789	NC_021160.1	Ca_kabuli_chr01	39456789	TT	CC	1946744417
SNP_P4_15271_39456811	NC_021160.1	Ca_kabuli_chr01	39456811	GG	AA	1946744419
SNP_P4_15272_39456813	NC_021160.1	Ca_kabuli_chr01	39456813	GG	TT	1946744421
SNP_P4_15273_39456876	NC_021160.1	Ca_kabuli_chr01	39456876	GG	CC	1946744423
SNP_P4_15274_39456888	NC_021160.1	Ca_kabuli_chr01	39456888	TT	CC	1946744425
SNP_P4_15275_39457663	NC_021160.1	Ca_kabuli_chr01	39457663	AA	GG	1946744427
SNP_P4_15276_39457695	NC_021160.1	Ca_kabuli_chr01	39457695	GG	CC	1946744429
SNP_P4_15277_39457753	NC_021160.1	Ca_kabuli_chr01	39457753	CC	TT	1946744431
SNP_P4_15278_39458028	NC_021160.1	Ca_kabuli_chr01	39458028	AA	CC	1946744433
SNP_P4_15279_39458065	NC_021160.1	Ca_kabuli_chr01	39458065	TT	CC	1946744435
SNP_P4_15280_39458077	NC_021160.1	Ca_kabuli_chr01	39458077	TT	CC	1946744437
SNP_P4_15281_39458081	NC_021160.1	Ca_kabuli_chr01	39458081	GG	AA	1946744440

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_15283_39458183	NC_021160.1	Ca_kabuli_chr01	39458183	TT	GG	1946744444
SNP_P4_15284_39458187	NC_021160.1	Ca_kabuli_chr01	39458187	GG	TT	1946744446
SNP_P4_15285_39459073	NC_021160.1	Ca_kabuli_chr01	39459073	CC	AA	1946744448
SNP_P4_15287_39460864	NC_021160.1	Ca_kabuli_chr01	39460864	AA	GG	1946744450
SNP_P4_15288_39460986	NC_021160.1	Ca_kabuli_chr01	39460986	GG	AA	1946744452
SNP_P4_15289_39460993	NC_021160.1	Ca_kabuli_chr01	39460993	GG	AA	1946744454
SNP_P4_15290_39461020	NC_021160.1	Ca_kabuli_chr01	39461020	TT	CC	1946744456
SNP_P4_15291_39461072	NC_021160.1	Ca_kabuli_chr01	39461072	GG	CC	1946744458
SNP_P4_15292_39461886	NC_021160.1	Ca_kabuli_chr01	39461886	AA	GG	1946744460
SNP_P4_15295_39464040	NC_021160.1	Ca_kabuli_chr01	39464040	GG	AA	1946744462
SNP_P4_15296_39464048	NC_021160.1	Ca_kabuli_chr01	39464048	AA	CC	1946744464
SNP_P4_15297_39464073	NC_021160.1	Ca_kabuli_chr01	39464073	TT	GG	1946744466
SNP_P4_15298_39464846	NC_021160.1	Ca_kabuli_chr01	39464846	TT	AA	1946744468
SNP_P4_15299_39465834	NC_021160.1	Ca_kabuli_chr01	39465834	AA	CC	1946744470
SNP_P4_15300_39469361	NC_021160.1	Ca_kabuli_chr01	39469361	GG	AA	1946744472
SNP_P4_15301_39469507	NC_021160.1	Ca_kabuli_chr01	39469507	AA	CC	1946744474
SNP_P4_15302_39469671	NC_021160.1	Ca_kabuli_chr01	39469671	GG	AA	1946744476
SNP_P4_15303_39469701	NC_021160.1	Ca_kabuli_chr01	39469701	CC	TT	1946744478
SNP_P4_15304_39469809	NC_021160.1	Ca_kabuli_chr01	39469809	CC	GG	1946744480
SNP_P4_15305_39470285	NC_021160.1	Ca_kabuli_chr01	39470285	TT	CC	1946744482
SNP_P4_15306_39470945	NC_021160.1	Ca_kabuli_chr01	39470945	TT	CC	1946744484
SNP_P4_15307_39470987	NC_021160.1	Ca_kabuli_chr01	39470987	AA	TT	1946744486
SNP_P4_15308_39471545	NC_021160.1	Ca_kabuli_chr01	39471545	GG	AA	1946744488
SNP_P4_15309_39471747	NC_021160.1	Ca_kabuli_chr01	39471747	GG	CC	1946744490
SNP_P4_15310_39471769	NC_021160.1	Ca_kabuli_chr01	39471769	CC	TT	1946744492
SNP_P4_15311_39472634	NC_021160.1	Ca_kabuli_chr01	39472634	GG	AA	1946744494
SNP_P4_15313_39480725	NC_021160.1	Ca_kabuli_chr01	39480725	GG	AA	1946744496
SNP_P4_15314_39480869	NC_021160.1	Ca_kabuli_chr01	39480869	AA	GG	1946744498
SNP_P4_15315_39482660	NC_021160.1	Ca_kabuli_chr01	39482660	AA	TT	1946744500
SNP_P4_15316_39483768	NC_021160.1	Ca_kabuli_chr01	39483768	GG	TT	1946744502
SNP_P4_15317_39484612	NC_021160.1	Ca_kabuli_chr01	39484612	CC	AA	1946744504
SNP_P4_15318_39484821	NC_021160.1	Ca_kabuli_chr01	39484821	TT	GG	1946744506
SNP_P4_15319_39486148	NC_021160.1	Ca_kabuli_chr01	39486148	TT	AA	1946744508
SNP_P4_15320_39487871	NC_021160.1	Ca_kabuli_chr01	39487871	GG	AA	1946744510
SNP_P4_15321_39488085	NC_021160.1	Ca_kabuli_chr01	39488085	AA	GG	1946744513
SNP_P4_15322_39488140	NC_021160.1	Ca_kabuli_chr01	39488140	TT	GG	1946744515
SNP_P4_15323_39488339	NC_021160.1	Ca_kabuli_chr01	39488339	CC	TT	1946744517
SNP_P4_15324_39489281	NC_021160.1	Ca_kabuli_chr01	39489281	TT	AA	1946744519
SNP_P4_15325_39490381	NC_021160.1	Ca_kabuli_chr01	39490381	GG	TT	1946744521
SNP_P4_15326_39494124	NC_021160.1	Ca_kabuli_chr01	39494124	AA	GG	1946744523
SNP_P4_15327_39494949	NC_021160.1	Ca_kabuli_chr01	39494949	AA	GG	1946744525

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_15329_39497032	NC_021160.1	Ca_kabuli_chr01	39497032	TT	GG	1946744529
SNP_P4_15330_39497089	NC_021160.1	Ca_kabuli_chr01	39497089	GG	AA	1946744532
SNP_P4_15331_39498634	NC_021160.1	Ca_kabuli_chr01	39498634	GG	AA	1946744534
SNP_P4_15332_39501226	NC_021160.1	Ca_kabuli_chr01	39501226	CC	TT	1946744536
SNP_P4_15333_39501526	NC_021160.1	Ca_kabuli_chr01	39501526	AA	CC	1946744538
SNP_P4_15334_39501693	NC_021160.1	Ca_kabuli_chr01	39501693	CC	TT	1946744540
SNP_P4_15335_39501770	NC_021160.1	Ca_kabuli_chr01	39501770	AA	GG	1946744542
SNP_P4_15336_39504478	NC_021160.1	Ca_kabuli_chr01	39504478	AA	GG	1946744544
SNP_P4_15338_39504564	NC_021160.1	Ca_kabuli_chr01	39504564	TT	AA	1946744546
SNP_P4_15339_39507403	NC_021160.1	Ca_kabuli_chr01	39507403	AA	TT	1946744548
SNP_P4_15341_39509762	NC_021160.1	Ca_kabuli_chr01	39509762	CC	TT	1946744550
SNP_P4_15343_39511608	NC_021160.1	Ca_kabuli_chr01	39511608	TT	AA	1946744552
SNP_P4_15344_39511613	NC_021160.1	Ca_kabuli_chr01	39511613	TT	AA	1946744554
SNP_P4_15345_39511619	NC_021160.1	Ca_kabuli_chr01	39511619	CC	TT	1946744556
SNP_P4_15346_39511643	NC_021160.1	Ca_kabuli_chr01	39511643	GG	AA	1946744558
SNP_P4_15347_39511703	NC_021160.1	Ca_kabuli_chr01	39511703	TT	CC	1946744560
SNP_P4_15348_39516171	NC_021160.1	Ca_kabuli_chr01	39516171	TT	CC	1946744562
SNP_P4_15349_39517991	NC_021160.1	Ca_kabuli_chr01	39517991	TT	GG	1946744564
SNP_P4_15350_39518284	NC_021160.1	Ca_kabuli_chr01	39518284	AA	GG	1946744566
SNP_P4_15351_39520299	NC_021160.1	Ca_kabuli_chr01	39520299	CC	TT	1946744568
SNP_P4_15352_39521721	NC_021160.1	Ca_kabuli_chr01	39521721	GG	AA	1946744570
SNP_P4_15353_39523339	NC_021160.1	Ca_kabuli_chr01	39523339	TT	CC	1946744572
SNP_P4_15354_39523569	NC_021160.1	Ca_kabuli_chr01	39523569	CC	TT	1946744574
SNP_P4_15355_39524091	NC_021160.1	Ca_kabuli_chr01	39524091	CC	AA	1946744576
SNP_P4_15356_39524259	NC_021160.1	Ca_kabuli_chr01	39524259	AA	GG	1946744578
SNP_P4_15357_39524296	NC_021160.1	Ca_kabuli_chr01	39524296	TT	CC	1946744580
SNP_P4_15358_39524407	NC_021160.1	Ca_kabuli_chr01	39524407	CC	TT	1946744582
SNP_P4_15359_39525619	NC_021160.1	Ca_kabuli_chr01	39525619	CC	TT	1946744584
SNP_P4_15360_39526427	NC_021160.1	Ca_kabuli_chr01	39526427	GG	AA	1946744586
SNP_P4_15361_39526835	NC_021160.1	Ca_kabuli_chr01	39526835	GG	AA	1946744588
SNP_P4_15362_39527093	NC_021160.1	Ca_kabuli_chr01	39527093	GG	AA	1946744590
SNP_P4_15363_39528861	NC_021160.1	Ca_kabuli_chr01	39528861	TT	CC	1946744592
SNP_P4_15364_39528889	NC_021160.1	Ca_kabuli_chr01	39528889	AA	TT	1946744594
SNP_P4_15365_39529164	NC_021160.1	Ca_kabuli_chr01	39529164	CC	GG	1946744596
SNP_P4_15366_39540943	NC_021160.1	Ca_kabuli_chr01	39540943	TT	CC	1946744598
SNP_P4_15367_39540969	NC_021160.1	Ca_kabuli_chr01	39540969	TT	CC	1946744600
SNP_P4_15368_39541554	NC_021160.1	Ca_kabuli_chr01	39541554	AA	GG	1946744602
SNP_P4_15369_39545421	NC_021160.1	Ca_kabuli_chr01	39545421	AA	TT	1946744604
SNP_P4_15370_39547376	NC_021160.1	Ca_kabuli_chr01	39547376	CC	TT	1946744606
SNP_P4_15371_39548050	NC_021160.1	Ca_kabuli_chr01	39548050	GG	AA	1946744608
SNP_P4_15372_39548370	NC_021160.1	Ca_kabuli_chr01	39548370	GG	AA	1946744610

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_15374_39552218	NC_021160.1	Ca_kabuli_chr01	39552218	GG	AA	1946744614
SNP_P4_15375_39552305	NC_021160.1	Ca_kabuli_chr01	39552305	AA	CC	1946744616
SNP_P4_15376_39552336	NC_021160.1	Ca_kabuli_chr01	39552336	TT	CC	1946744618
SNP_P4_15377_39552408	NC_021160.1	Ca_kabuli_chr01	39552408	TT	CC	1946744620
SNP_P4_15378_39552452	NC_021160.1	Ca_kabuli_chr01	39552452	AA	GG	1946744622
SNP_P4_15379_39552482	NC_021160.1	Ca_kabuli_chr01	39552482	TT	CC	1946744624
SNP_P4_15380_39552526	NC_021160.1	Ca_kabuli_chr01	39552526	AA	GG	1946744626
SNP_P4_15381_39552557	NC_021160.1	Ca_kabuli_chr01	39552557	CC	AA	1946744628
SNP_P4_15382_39552748	NC_021160.1	Ca_kabuli_chr01	39552748	TT	CC	1946744629
SNP_P4_15383_39552759	NC_021160.1	Ca_kabuli_chr01	39552759	TT	CC	1946744631
SNP_P4_15384_39552950	NC_021160.1	Ca_kabuli_chr01	39552950	TT	CC	1946744633
SNP_P4_15385_39552989	NC_021160.1	Ca_kabuli_chr01	39552989	CC	GG	1946744635
SNP_P4_15386_39553566	NC_021160.1	Ca_kabuli_chr01	39553566	GG	TT	1946744637
SNP_P4_15387_39554304	NC_021160.1	Ca_kabuli_chr01	39554304	GG	AA	1946744639
SNP_P4_15388_39556922	NC_021160.1	Ca_kabuli_chr01	39556922	AA	GG	1946744641
SNP_P4_15389_39557201	NC_021160.1	Ca_kabuli_chr01	39557201	CC	TT	1946744643
SNP_P4_15390_39557347	NC_021160.1	Ca_kabuli_chr01	39557347	TT	CC	1946744645
SNP_P4_15391_39558203	NC_021160.1	Ca_kabuli_chr01	39558203	CC	TT	1946744647
SNP_P4_15392_39560970	NC_021160.1	Ca_kabuli_chr01	39560970	CC	TT	1946744649
SNP_P4_15393_39561927	NC_021160.1	Ca_kabuli_chr01	39561927	CC	TT	1946744651
SNP_P4_15394_39562023	NC_021160.1	Ca_kabuli_chr01	39562023	GG	AA	1946744653
SNP_P4_15395_39562839	NC_021160.1	Ca_kabuli_chr01	39562839	TT	CC	1946744655
SNP_P4_15396_39565139	NC_021160.1	Ca_kabuli_chr01	39565139	GG	CC	1946744657
SNP_P4_15397_39566639	NC_021160.1	Ca_kabuli_chr01	39566639	TT	CC	1946744659
SNP_P4_15398_39566657	NC_021160.1	Ca_kabuli_chr01	39566657	CC	TT	1946744661
SNP_P4_15399_39567244	NC_021160.1	Ca_kabuli_chr01	39567244	GG	TT	1946744663
SNP_P4_15400_39567506	NC_021160.1	Ca_kabuli_chr01	39567506	TT	GG	1946744665
SNP_P4_15401_39569455	NC_021160.1	Ca_kabuli_chr01	39569455	AA	GG	1946744667
SNP_P4_15402_39569808	NC_021160.1	Ca_kabuli_chr01	39569808	TT	CC	1946744669
SNP_P4_15403_39570675	NC_021160.1	Ca_kabuli_chr01	39570675	GG	AA	1946744671
SNP_P4_15404_39570842	NC_021160.1	Ca_kabuli_chr01	39570842	CC	TT	1946744673
SNP_P4_15405_39571934	NC_021160.1	Ca_kabuli_chr01	39571934	GG	AA	1946744675
SNP_P4_15406_39571993	NC_021160.1	Ca_kabuli_chr01	39571993	TT	GG	1946744677
SNP_P4_15407_39571995	NC_021160.1	Ca_kabuli_chr01	39571995	TT	CC	1946744679
SNP_P4_15408_39573170	NC_021160.1	Ca_kabuli_chr01	39573170	AA	GG	1946744681
SNP_P4_15409_39573504	NC_021160.1	Ca_kabuli_chr01	39573504	AA	GG	1946744683
SNP_P4_15410_39573658	NC_021160.1	Ca_kabuli_chr01	39573658	AA	GG	1946744685
SNP_P4_15411_39573671	NC_021160.1	Ca_kabuli_chr01	39573671	AA	GG	1946744687
SNP_P4_15412_39574095	NC_021160.1	Ca_kabuli_chr01	39574095	AA	GG	1946744689
SNP_P4_15414_39574474	NC_021160.1	Ca_kabuli_chr01	39574474	CC	GG	1946744691
SNP_P4_15415_39575413	NC_021160.1	Ca_kabuli_chr01	39575413	GG	AA	1946744693

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_15417_39575673	NC_021160.1	Ca_kabuli_chr01	39575673	AA	GG	1946744697
SNP_P4_15418_39578141	NC_021160.1	Ca_kabuli_chr01	39578141	TT	GG	1946744699
SNP_P4_15419_39578206	NC_021160.1	Ca_kabuli_chr01	39578206	GG	TT	1946744701
SNP_P4_15420_39579237	NC_021160.1	Ca_kabuli_chr01	39579237	AA	TT	1946744703
SNP_P4_15421_39579954	NC_021160.1	Ca_kabuli_chr01	39579954	AA	GG	1946744705
SNP_P4_15422_39580914	NC_021160.1	Ca_kabuli_chr01	39580914	TT	CC	1946744707
SNP_P4_15423_39581091	NC_021160.1	Ca_kabuli_chr01	39581091	GG	AA	1946744709
SNP_P4_15424_39581450	NC_021160.1	Ca_kabuli_chr01	39581450	CC	GG	1946744711
SNP_P4_15425_39581578	NC_021160.1	Ca_kabuli_chr01	39581578	GG	TT	1946744713
SNP_P4_15426_39582084	NC_021160.1	Ca_kabuli_chr01	39582084	GG	AA	1946744715
SNP_P4_15427_39583083	NC_021160.1	Ca_kabuli_chr01	39583083	CC	AA	1946744717
SNP_P4_15428_39583472	NC_021160.1	Ca_kabuli_chr01	39583472	GG	TT	1946744719
SNP_P4_15429_39583590	NC_021160.1	Ca_kabuli_chr01	39583590	GG	AA	1946744721
SNP_P4_15430_39583826	NC_021160.1	Ca_kabuli_chr01	39583826	AA	GG	1946744723
SNP_P4_15432_39585420	NC_021160.1	Ca_kabuli_chr01	39585420	CC	GG	1946744725
SNP_P4_15433_39585841	NC_021160.1	Ca_kabuli_chr01	39585841	TT	CC	1946744727
SNP_P4_15434_39586124	NC_021160.1	Ca_kabuli_chr01	39586124	GG	AA	1946744729
SNP_P4_15435_39586603	NC_021160.1	Ca_kabuli_chr01	39586603	GG	CC	1946744731
SNP_P4_15436_39586604	NC_021160.1	Ca_kabuli_chr01	39586604	AA	GG	1946744733
SNP_P4_15437_39586615	NC_021160.1	Ca_kabuli_chr01	39586615	AA	TT	1946744735
SNP_P4_15438_39586633	NC_021160.1	Ca_kabuli_chr01	39586633	AA	TT	1946744737
SNP_P4_15439_39586789	NC_021160.1	Ca_kabuli_chr01	39586789	TT	CC	1946744739
SNP_P4_15440_39589712	NC_021160.1	Ca_kabuli_chr01	39589712	TT	CC	1946744741
SNP_P4_15441_39590100	NC_021160.1	Ca_kabuli_chr01	39590100	TT	CC	1946744742
SNP_P4_15442_39590412	NC_021160.1	Ca_kabuli_chr01	39590412	TT	CC	1946744744
SNP_P4_15443_39591557	NC_021160.1	Ca_kabuli_chr01	39591557	AA	GG	1946744746
SNP_P4_15444_39591722	NC_021160.1	Ca_kabuli_chr01	39591722	TT	CC	1946744748
SNP_P4_15445_39591804	NC_021160.1	Ca_kabuli_chr01	39591804	GG	AA	1946744750
SNP_P4_15446_39591828	NC_021160.1	Ca_kabuli_chr01	39591828	CC	AA	1946744752
SNP_P4_15447_39593553	NC_021160.1	Ca_kabuli_chr01	39593553	GG	AA	1946744754
SNP_P4_15448_39594073	NC_021160.1	Ca_kabuli_chr01	39594073	GG	AA	1946744756
SNP_P4_15449_39594153	NC_021160.1	Ca_kabuli_chr01	39594153	AA	GG	1946744758
SNP_P4_15450_39594445	NC_021160.1	Ca_kabuli_chr01	39594445	GG	AA	1946744760
SNP_P4_15452_39595606	NC_021160.1	Ca_kabuli_chr01	39595606	TT	AA	1946744762
SNP_P4_15453_39596314	NC_021160.1	Ca_kabuli_chr01	39596314	TT	CC	1946744764
SNP_P4_15454_39598406	NC_021160.1	Ca_kabuli_chr01	39598406	TT	CC	1946744766
SNP_P4_15455_39598437	NC_021160.1	Ca_kabuli_chr01	39598437	AA	TT	1946744768
SNP_P4_15456_39598482	NC_021160.1	Ca_kabuli_chr01	39598482	AA	GG	1946744770
SNP_P4_15457_39598664	NC_021160.1	Ca_kabuli_chr01	39598664	CC	TT	1946744772
SNP_P4_15458_39598888	NC_021160.1	Ca_kabuli_chr01	39598888	AA	TT	1946744774
SNP_P4_15459_39598892	NC_021160.1	Ca_kabuli_chr01	39598892	TT	CC	1946744776

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_15461_39601079	NC_021160.1	Ca_kabuli_chr01	39601079	TT	CC	1946744780
SNP_P4_15462_39601179	NC_021160.1	Ca_kabuli_chr01	39601179	GG	AA	1946744782
SNP_P4_15463_39605174	NC_021160.1	Ca_kabuli_chr01	39605174	TT	CC	1946744784
SNP_P4_15464_39605180	NC_021160.1	Ca_kabuli_chr01	39605180	TT	CC	1946744786
SNP_P4_15465_39605967	NC_021160.1	Ca_kabuli_chr01	39605967	CC	TT	1946744788
SNP_P4_15466_39605970	NC_021160.1	Ca_kabuli_chr01	39605970	AA	CC	1946744790
SNP_P4_15469_39606044	NC_021160.1	Ca_kabuli_chr01	39606044	CC	AA	1946744792
SNP_P4_15471_39608534	NC_021160.1	Ca_kabuli_chr01	39608534	TT	AA	1946744794
SNP_P4_15472_39609095	NC_021160.1	Ca_kabuli_chr01	39609095	GG	TT	1946744796
SNP_P4_15474_39609698	NC_021160.1	Ca_kabuli_chr01	39609698	TT	CC	1946744798
SNP_P4_15475_39612938	NC_021160.1	Ca_kabuli_chr01	39612938	GG	TT	1946744800
SNP_P4_15476_39613149	NC_021160.1	Ca_kabuli_chr01	39613149	TT	CC	1946744803
SNP_P4_15479_39614453	NC_021160.1	Ca_kabuli_chr01	39614453	CC	TT	1946744805
SNP_P4_15480_39615085	NC_021160.1	Ca_kabuli_chr01	39615085	TT	AA	1946744807
SNP_P4_15482_39617656	NC_021160.1	Ca_kabuli_chr01	39617656	CC	TT	1946744809
SNP_P4_15484_39621406	NC_021160.1	Ca_kabuli_chr01	39621406	TT	AA	1946744811
SNP_P4_15485_39621685	NC_021160.1	Ca_kabuli_chr01	39621685	TT	GG	1946744813
SNP_P4_15486_39621729	NC_021160.1	Ca_kabuli_chr01	39621729	AA	TT	1946744815
SNP_P4_15487_39622714	NC_021160.1	Ca_kabuli_chr01	39622714	GG	AA	1946744816
SNP_P4_15488_39623198	NC_021160.1	Ca_kabuli_chr01	39623198	CC	TT	1946744818
SNP_P4_15489_39623485	NC_021160.1	Ca_kabuli_chr01	39623485	CC	AA	1946744820
SNP_P4_15490_39636066	NC_021160.1	Ca_kabuli_chr01	39636066	GG	AA	1946744822
SNP_P4_15491_39636328	NC_021160.1	Ca_kabuli_chr01	39636328	CC	TT	1946744824
SNP_P4_15492_39638688	NC_021160.1	Ca_kabuli_chr01	39638688	AA	TT	1946744826
SNP_P4_15493_39639027	NC_021160.1	Ca_kabuli_chr01	39639027	CC	AA	1946744828
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SNP_P4_15495_39647245	NC_021160.1	Ca_kabuli_chr01	39647245	AA	GG	1946744832
SNP_P4_15496_39650111	NC_021160.1	Ca_kabuli_chr01	39650111	CC	TT	1946744834
SNP_P4_15497_39650251	NC_021160.1	Ca_kabuli_chr01	39650251	GG	AA	1946744836
SNP_P4_15498_39650316	NC_021160.1	Ca_kabuli_chr01	39650316	AA	GG	1946744838
SNP_P4_15500_39652475	NC_021160.1	Ca_kabuli_chr01	39652475	AA	GG	1946744840
SNP_P4_15501_39652481	NC_021160.1	Ca_kabuli_chr01	39652481	AA	GG	1946744842
SNP_P4_15502_39652788	NC_021160.1	Ca_kabuli_chr01	39652788	AA	TT	1946744844
SNP_P4_15503_39653057	NC_021160.1	Ca_kabuli_chr01	39653057	AA	GG	1946744846
SNP_P4_15504_39654271	NC_021160.1	Ca_kabuli_chr01	39654271	GG	TT	1946744848
SNP_P4_15505_39654352	NC_021160.1	Ca_kabuli_chr01	39654352	TT	CC	1946744850
SNP_P4_15507_39657407	NC_021160.1	Ca_kabuli_chr01	39657407	CC	TT	1946744852
SNP_P4_15508_39657837	NC_021160.1	Ca_kabuli_chr01	39657837	CC	TT	1946744854
SNP_P4_15509_39659626	NC_021160.1	Ca_kabuli_chr01	39659626	AA	GG	1946744856
SNP_P4_15510_39663824	NC_021160.1	Ca_kabuli_chr01	39663824	GG	CC	1946744858
SNP_P4_15511_39664201	NC_021160.1	Ca_kabuli_chr01	39664201	GG	AA	1946744860

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_15513_39669745	NC_021160.1	Ca_kabuli_chr01	39669745	TT	CC	1946744864
SNP_P4_15514_39670391	NC_021160.1	Ca_kabuli_chr01	39670391	AA	GG	1946744866
SNP_P4_15515_39671669	NC_021160.1	Ca_kabuli_chr01	39671669	TT	CC	1946744868
SNP_P4_15516_39671860	NC_021160.1	Ca_kabuli_chr01	39671860	AA	GG	1946744870
SNP_P4_15517_39672603	NC_021160.1	Ca_kabuli_chr01	39672603	TT	CC	1946744872
SNP_P4_15518_39672923	NC_021160.1	Ca_kabuli_chr01	39672923	AA	GG	1946744874
SNP_P4_15519_39673379	NC_021160.1	Ca_kabuli_chr01	39673379	AA	GG	1946744876
SNP_P4_15521_39674376	NC_021160.1	Ca_kabuli_chr01	39674376	TT	CC	1946744878
SNP_P4_15522_39679288	NC_021160.1	Ca_kabuli_chr01	39679288	TT	CC	1946744880
SNP_P4_15523_39681229	NC_021160.1	Ca_kabuli_chr01	39681229	TT	CC	1946744882
SNP_P4_15524_39681770	NC_021160.1	Ca_kabuli_chr01	39681770	GG	AA	1946744884
SNP_P4_15526_39682983	NC_021160.1	Ca_kabuli_chr01	39682983	TT	AA	1946744885
SNP_P4_15527_39683907	NC_021160.1	Ca_kabuli_chr01	39683907	TT	GG	1946744887
SNP_P4_15528_39684029	NC_021160.1	Ca_kabuli_chr01	39684029	CC	AA	1946744889
SNP_P4_15529_39684342	NC_021160.1	Ca_kabuli_chr01	39684342	TT	CC	1946744891
SNP_P4_15530_39685887	NC_021160.1	Ca_kabuli_chr01	39685887	AA	GG	1946744893
SNP_P4_15531_39686205	NC_021160.1	Ca_kabuli_chr01	39686205	GG	TT	1946744895
SNP_P4_15532_39687596	NC_021160.1	Ca_kabuli_chr01	39687596	AA	CC	1946744897
SNP_P4_15533_39687600	NC_021160.1	Ca_kabuli_chr01	39687600	TT	GG	1946744899
SNP_P4_15534_39688296	NC_021160.1	Ca_kabuli_chr01	39688296	AA	GG	1946744901
SNP_P4_15535_39688852	NC_021160.1	Ca_kabuli_chr01	39688852	TT	CC	1946744903
SNP_P4_15536_39689058	NC_021160.1	Ca_kabuli_chr01	39689058	AA	GG	1946744905
SNP_P4_15537_39691515	NC_021160.1	Ca_kabuli_chr01	39691515	CC	AA	1946744907
SNP_P4_15538_39693784	NC_021160.1	Ca_kabuli_chr01	39693784	GG	TT	1946744909
SNP_P4_15539_39694573	NC_021160.1	Ca_kabuli_chr01	39694573	TT	CC	1946744911
SNP_P4_15540_39694836	NC_021160.1	Ca_kabuli_chr01	39694836	GG	TT	1946744913
SNP_P4_15541_39695776	NC_021160.1	Ca_kabuli_chr01	39695776	TT	CC	1946744915
SNP_P4_15542_39696354	NC_021160.1	Ca_kabuli_chr01	39696354	TT	CC	1946744917
SNP_P4_15543_39696647	NC_021160.1	Ca_kabuli_chr01	39696647	CC	AA	1946744919
SNP_P4_15544_39697496	NC_021160.1	Ca_kabuli_chr01	39697496	TT	CC	1946744921
SNP_P4_15545_39697742	NC_021160.1	Ca_kabuli_chr01	39697742	CC	TT	1946744923
SNP_P4_15546_39700012	NC_021160.1	Ca_kabuli_chr01	39700012	AA	TT	1946744925
SNP_P4_15547_39700450	NC_021160.1	Ca_kabuli_chr01	39700450	AA	GG	1946744927
SNP_P4_15548_39700596	NC_021160.1	Ca_kabuli_chr01	39700596	AA	GG	1946744929
SNP_P4_15549_39700676	NC_021160.1	Ca_kabuli_chr01	39700676	CC	TT	1946744931
SNP_P4_15550_39704434	NC_021160.1	Ca_kabuli_chr01	39704434	AA	CC	1946744933
SNP_P4_15551_39704467	NC_021160.1	Ca_kabuli_chr01	39704467	TT	AA	1946744935
SNP_P4_15552_39704478	NC_021160.1	Ca_kabuli_chr01	39704478	GG	AA	1946744937
SNP_P4_15553_39716639	NC_021160.1	Ca_kabuli_chr01	39716639	GG	AA	1946744939
SNP_P4_15554_39717223	NC_021160.1	Ca_kabuli_chr01	39717223	TT	AA	1946744941
SNP_P4_15556_39720857	NC_021160.1	Ca_kabuli_chr01	39720857	AA	GG	1946744943

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_15558_39725479	NC_021160.1	Ca_kabuli_chr01	39725479	AA	GG	1946744947
SNP_P4_15560_39726368	NC_021160.1	Ca_kabuli_chr01	39726368	AA	CC	1946744948
SNP_P4_15561_39726369	NC_021160.1	Ca_kabuli_chr01	39726369	GG	CC	1946744950
SNP_P4_15562_39731001	NC_021160.1	Ca_kabuli_chr01	39731001	AA	TT	1946744952
SNP_P4_15563_39731847	NC_021160.1	Ca_kabuli_chr01	39731847	AA	GG	1946744954
SNP_P4_15564_39731848	NC_021160.1	Ca_kabuli_chr01	39731848	AA	TT	1946744956
SNP_P4_15565_39731855	NC_021160.1	Ca_kabuli_chr01	39731855	GG	AA	1946744958
SNP_P4_15566_39732978	NC_021160.1	Ca_kabuli_chr01	39732978	GG	CC	1946744960
SNP_P4_15568_39737803	NC_021160.1	Ca_kabuli_chr01	39737803	TT	CC	1946744962
SNP_P4_15569_39738430	NC_021160.1	Ca_kabuli_chr01	39738430	GG	CC	1946744964
SNP_P4_15570_39741364	NC_021160.1	Ca_kabuli_chr01	39741364	TT	CC	1946744966
SNP_P4_15571_39741367	NC_021160.1	Ca_kabuli_chr01	39741367	CC	AA	1946744968
SNP_P4_15572_39741621	NC_021160.1	Ca_kabuli_chr01	39741621	TT	AA	1946744970
SNP_P4_15573_39743533	NC_021160.1	Ca_kabuli_chr01	39743533	CC	TT	1946744972
SNP_P4_15574_39743544	NC_021160.1	Ca_kabuli_chr01	39743544	GG	AA	1946744974
SNP_P4_15575_39743554	NC_021160.1	Ca_kabuli_chr01	39743554	CC	GG	1946744976
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SNP_P4_15578_39744752	NC_021160.1	Ca_kabuli_chr01	39744752	CC	TT	1946744980
SNP_P4_15579_39746772	NC_021160.1	Ca_kabuli_chr01	39746772	GG	TT	1946744982
SNP_P4_15580_39748537	NC_021160.1	Ca_kabuli_chr01	39748537	GG	AA	1946744984
SNP_P4_15581_39748799	NC_021160.1	Ca_kabuli_chr01	39748799	GG	AA	1946744986
SNP_P4_15582_39752772	NC_021160.1	Ca_kabuli_chr01	39752772	GG	AA	1946744988
SNP_P4_15583_39754398	NC_021160.1	Ca_kabuli_chr01	39754398	AA	CC	1946744990
SNP_P4_15584_39759622	NC_021160.1	Ca_kabuli_chr01	39759622	TT	AA	1946744992
SNP_P4_15585_39763613	NC_021160.1	Ca_kabuli_chr01	39763613	TT	GG	1946744994
SNP_P4_15586_39766759	NC_021160.1	Ca_kabuli_chr01	39766759	GG	AA	1946744996
SNP_P4_15587_39767769	NC_021160.1	Ca_kabuli_chr01	39767769	GG	AA	1946744998
SNP_P4_15588_39768633	NC_021160.1	Ca_kabuli_chr01	39768633	CC	TT	1946745000
SNP_P4_15589_39768706	NC_021160.1	Ca_kabuli_chr01	39768706	AA	TT	1946745002
SNP_P4_15590_39769682	NC_021160.1	Ca_kabuli_chr01	39769682	TT	AA	1946745004
SNP_P4_15591_39769852	NC_021160.1	Ca_kabuli_chr01	39769852	CC	TT	1946745006
SNP_P4_15592_39770498	NC_021160.1	Ca_kabuli_chr01	39770498	TT	GG	1946745008
SNP_P4_15593_39771108	NC_021160.1	Ca_kabuli_chr01	39771108	GG	AA	1946745010
SNP_P4_15595_39776202	NC_021160.1	Ca_kabuli_chr01	39776202	AA	GG	1946745012
SNP_P4_15596_39776247	NC_021160.1	Ca_kabuli_chr01	39776247	GG	AA	1946745014
SNP_P4_15597_39779559	NC_021160.1	Ca_kabuli_chr01	39779559	TT	GG	1946745016
SNP_P4_15598_39780343	NC_021160.1	Ca_kabuli_chr01	39780343	TT	CC	1946745018
SNP_P4_15599_39780429	NC_021160.1	Ca_kabuli_chr01	39780429	TT	AA	1946745020
SNP_P4_15600_39780604	NC_021160.1	Ca_kabuli_chr01	39780604	TT	CC	1946745022
SNP_P4_15601_39781714	NC_021160.1	Ca_kabuli_chr01	39781714	TT	CC	1946745025
SNP_P4_15603_39782840	NC_021160.1	Ca_kabuli_chr01	39782840	GG	TT	1946745027

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_15607_39792440	NC_021160.1	Ca_kabuli_chr01	39792440	CC	GG	1946745033
SNP_P4_15609_39797948	NC_021160.1	Ca_kabuli_chr01	39797948	AA	TT	1946745035
SNP_P4_15610_39798709	NC_021160.1	Ca_kabuli_chr01	39798709	CC	TT	1946745037
SNP_P4_15611_39801812	NC_021160.1	Ca_kabuli_chr01	39801812	AA	GG	1946745039
SNP_P4_15612_39801893	NC_021160.1	Ca_kabuli_chr01	39801893	AA	GG	1946745041
SNP_P4_15613_39801896	NC_021160.1	Ca_kabuli_chr01	39801896	AA	CC	1946745043
SNP_P4_15614_39802069	NC_021160.1	Ca_kabuli_chr01	39802069	CC	TT	1946745045
SNP_P4_15615_39802075	NC_021160.1	Ca_kabuli_chr01	39802075	TT	CC	1946745047
SNP_P4_15616_39803544	NC_021160.1	Ca_kabuli_chr01	39803544	TT	AA	1946745049
SNP_P4_15617_39805292	NC_021160.1	Ca_kabuli_chr01	39805292	AA	GG	1946745051
SNP_P4_15618_39807079	NC_021160.1	Ca_kabuli_chr01	39807079	AA	CC	1946745053
SNP_P4_15619_39809194	NC_021160.1	Ca_kabuli_chr01	39809194	GG	AA	1946745055
SNP_P4_15620_39811025	NC_021160.1	Ca_kabuli_chr01	39811025	AA	TT	1946745057
SNP_P4_15621_39811373	NC_021160.1	Ca_kabuli_chr01	39811373	GG	AA	1946745059
SNP_P4_15622_39820535	NC_021160.1	Ca_kabuli_chr01	39820535	GG	AA	1946745061
SNP_P4_15623_39821229	NC_021160.1	Ca_kabuli_chr01	39821229	CC	AA	1946745063
SNP_P4_15624_39831593	NC_021160.1	Ca_kabuli_chr01	39831593	GG	AA	1946745065
SNP_P4_15625_39833898	NC_021160.1	Ca_kabuli_chr01	39833898	GG	AA	1946745067
SNP_P4_15626_39834045	NC_021160.1	Ca_kabuli_chr01	39834045	AA	GG	1946745069
SNP_P4_15627_39836764	NC_021160.1	Ca_kabuli_chr01	39836764	TT	CC	1946745071
SNP_P4_15628_39836793	NC_021160.1	Ca_kabuli_chr01	39836793	CC	TT	1946745073
SNP_P4_15630_39837538	NC_021160.1	Ca_kabuli_chr01	39837538	CC	TT	1946745075
SNP_P4_15631_39837554	NC_021160.1	Ca_kabuli_chr01	39837554	GG	TT	1946745078
SNP_P4_15632_39837555	NC_021160.1	Ca_kabuli_chr01	39837555	CC	TT	1946745080
SNP_P4_15633_39837556	NC_021160.1	Ca_kabuli_chr01	39837556	TT	CC	1946745082
SNP_P4_15634_39837561	NC_021160.1	Ca_kabuli_chr01	39837561	AA	CC	1946745084
SNP_P4_15635_39837858	NC_021160.1	Ca_kabuli_chr01	39837858	GG	AA	1946745086
SNP_P4_15636_39839271	NC_021160.1	Ca_kabuli_chr01	39839271	TT	CC	1946745088
SNP_P4_15637_39839461	NC_021160.1	Ca_kabuli_chr01	39839461	TT	GG	1946745090
SNP_P4_15638_39839467	NC_021160.1	Ca_kabuli_chr01	39839467	TT	GG	1946745092
SNP_P4_15639_39842449	NC_021160.1	Ca_kabuli_chr01	39842449	TT	CC	1946745094
SNP_P4_15640_39842458	NC_021160.1	Ca_kabuli_chr01	39842458	GG	AA	1946745096
SNP_P4_15641_39842618	NC_021160.1	Ca_kabuli_chr01	39842618	TT	CC	1946745098
SNP_P4_15642_39843039	NC_021160.1	Ca_kabuli_chr01	39843039	CC	AA	1946745100
SNP_P4_15643_39843040	NC_021160.1	Ca_kabuli_chr01	39843040	CC	TT	1946745102
SNP_P4_15644_39843444	NC_021160.1	Ca_kabuli_chr01	39843444	GG	AA	1946745104
SNP_P4_15645_39843646	NC_021160.1	Ca_kabuli_chr01	39843646	CC	TT	1946745106
SNP_P4_15646_39844030	NC_021160.1	Ca_kabuli_chr01	39844030	CC	TT	1946745108
SNP_P4_15647_39844082	NC_021160.1	Ca_kabuli_chr01	39844082	TT	CC	1946745110
SNP_P4_15649_39844409	NC_021160.1	Ca_kabuli_chr01	39844409	TT	CC	1946745111

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_15653_39849479	NC_021160.1	Ca_kabuli_chr01	39849479	CC	TT	1946745117
SNP_P4_15654_39851055	NC_021160.1	Ca_kabuli_chr01	39851055	TT	AA	1946745119
SNP_P4_15655_39851139	NC_021160.1	Ca_kabuli_chr01	39851139	GG	TT	1946745121
SNP_P4_15656_39851238	NC_021160.1	Ca_kabuli_chr01	39851238	AA	GG	1946745123
SNP_P4_15658_39854857	NC_021160.1	Ca_kabuli_chr01	39854857	AA	GG	1946745125
SNP_P4_15659_39857823	NC_021160.1	Ca_kabuli_chr01	39857823	AA	GG	1946745127
SNP_P4_15660_39857824	NC_021160.1	Ca_kabuli_chr01	39857824	TT	CC	1946745129
SNP_P4_15661_39857899	NC_021160.1	Ca_kabuli_chr01	39857899	CC	TT	1946745131
SNP_P4_15662_39858233	NC_021160.1	Ca_kabuli_chr01	39858233	TT	CC	1946745133
SNP_P4_15663_39858984	NC_021160.1	Ca_kabuli_chr01	39858984	GG	AA	1946745135
SNP_P4_15664_39859044	NC_021160.1	Ca_kabuli_chr01	39859044	CC	AA	1946745138
SNP_P4_15665_39859205	NC_021160.1	Ca_kabuli_chr01	39859205	GG	CC	1946745140
SNP_P4_15666_39859406	NC_021160.1	Ca_kabuli_chr01	39859406	AA	CC	1946745142
SNP_P4_15667_39859494	NC_021160.1	Ca_kabuli_chr01	39859494	GG	AA	1946745144
SNP_P4_15668_39859536	NC_021160.1	Ca_kabuli_chr01	39859536	AA	GG	1946745146
SNP_P4_15669_39859862	NC_021160.1	Ca_kabuli_chr01	39859862	AA	TT	1946745148
SNP_P4_15670_39860429	NC_021160.1	Ca_kabuli_chr01	39860429	TT	CC	1946745150
SNP_P4_15671_39861528	NC_021160.1	Ca_kabuli_chr01	39861528	TT	GG	1946745152
SNP_P4_15672_39863042	NC_021160.1	Ca_kabuli_chr01	39863042	AA	GG	1946745154
SNP_P4_15673_39868270	NC_021160.1	Ca_kabuli_chr01	39868270	TT	CC	1946745155
SNP_P4_15674_39868277	NC_021160.1	Ca_kabuli_chr01	39868277	CC	TT	1946745157
SNP_P4_15675_39870352	NC_021160.1	Ca_kabuli_chr01	39870352	TT	AA	1946745159
SNP_P4_15676_39870353	NC_021160.1	Ca_kabuli_chr01	39870353	AA	TT	1946745161
SNP_P4_15678_39871819	NC_021160.1	Ca_kabuli_chr01	39871819	AA	TT	1946745163
SNP_P4_15679_39874921	NC_021160.1	Ca_kabuli_chr01	39874921	GG	AA	1946745165
SNP_P4_15680_39875461	NC_021160.1	Ca_kabuli_chr01	39875461	GG	AA	1946745167
SNP_P4_15681_39883660	NC_021160.1	Ca_kabuli_chr01	39883660	GG	AA	1946745169
SNP_P4_15682_39891044	NC_021160.1	Ca_kabuli_chr01	39891044	TT	CC	1946745171
SNP_P4_15683_39898958	NC_021160.1	Ca_kabuli_chr01	39898958	AA	CC	1946745173
SNP_P4_15685_39913649	NC_021160.1	Ca_kabuli_chr01	39913649	TT	AA	1946745175
SNP_P4_15686_39914923	NC_021160.1	Ca_kabuli_chr01	39914923	GG	TT	1946745177
SNP_P4_15687_39914994	NC_021160.1	Ca_kabuli_chr01	39914994	CC	TT	1946745179
SNP_P4_15688_39915153	NC_021160.1	Ca_kabuli_chr01	39915153	TT	CC	1946745181
SNP_P4_15689_39924069	NC_021160.1	Ca_kabuli_chr01	39924069	AA	GG	1946745183
SNP_P4_15690_39924349	NC_021160.1	Ca_kabuli_chr01	39924349	TT	GG	1946745185
SNP_P4_15691_39927162	NC_021160.1	Ca_kabuli_chr01	39927162	GG	TT	1946745187
SNP_P4_15692_39930666	NC_021160.1	Ca_kabuli_chr01	39930666	TT	GG	1946745189
SNP_P4_15693_39930758	NC_021160.1	Ca_kabuli_chr01	39930758	GG	AA	1946745191
SNP_P4_15694_39930953	NC_021160.1	Ca_kabuli_chr01	39930953	TT	AA	1946745193
SNP_P4_15695_39931327	NC_021160.1	Ca_kabuli_chr01	39931327	TT	GG	1946745195

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_15697_39937373	NC_021160.1	Ca_kabuli_chr01	39937373	AA	GG	1946745199
SNP_P4_15698_39937377	NC_021160.1	Ca_kabuli_chr01	39937377	AA	GG	1946745201
SNP_P4_15699_39937437	NC_021160.1	Ca_kabuli_chr01	39937437	TT	GG	1946745203
SNP_P4_15700_39937459	NC_021160.1	Ca_kabuli_chr01	39937459	TT	CC	1946745205
SNP_P4_15701_39937518	NC_021160.1	Ca_kabuli_chr01	39937518	CC	GG	1946745207
SNP_P4_15702_39937609	NC_021160.1	Ca_kabuli_chr01	39937609	GG	AA	1946745209
SNP_P4_15703_39937632	NC_021160.1	Ca_kabuli_chr01	39937632	AA	GG	1946745211
SNP_P4_15704_39937990	NC_021160.1	Ca_kabuli_chr01	39937990	GG	TT	1946745213
SNP_P4_15705_39937995	NC_021160.1	Ca_kabuli_chr01	39937995	TT	CC	1946745215
SNP_P4_15706_39938023	NC_021160.1	Ca_kabuli_chr01	39938023	TT	GG	1946745217
SNP_P4_15707_39944752	NC_021160.1	Ca_kabuli_chr01	39944752	TT	AA	1946745219
SNP_P4_15708_39947184	NC_021160.1	Ca_kabuli_chr01	39947184	TT	CC	1946745221
SNP_P4_15709_39948574	NC_021160.1	Ca_kabuli_chr01	39948574	AA	TT	1946745223
SNP_P4_15711_39949268	NC_021160.1	Ca_kabuli_chr01	39949268	GG	AA	1946745225
SNP_P4_15712_39951129	NC_021160.1	Ca_kabuli_chr01	39951129	GG	CC	1946745227
SNP_P4_15713_39951782	NC_021160.1	Ca_kabuli_chr01	39951782	GG	AA	1946745229
SNP_P4_15714_39954480	NC_021160.1	Ca_kabuli_chr01	39954480	CC	AA	1946745231
SNP_P4_15715_39955181	NC_021160.1	Ca_kabuli_chr01	39955181	AA	CC	1946745233
SNP_P4_15717_39955262	NC_021160.1	Ca_kabuli_chr01	39955262	CC	TT	1946745235
SNP_P4_15718_39957172	NC_021160.1	Ca_kabuli_chr01	39957172	TT	CC	1946745238
SNP_P4_15719_39957185	NC_021160.1	Ca_kabuli_chr01	39957185	GG	AA	1946745240
SNP_P4_15720_39967329	NC_021160.1	Ca_kabuli_chr01	39967329	AA	TT	1946745242
SNP_P4_15721_39968226	NC_021160.1	Ca_kabuli_chr01	39968226	GG	TT	1946745244
SNP_P4_15722_39968554	NC_021160.1	Ca_kabuli_chr01	39968554	AA	GG	1946745246
SNP_P4_15723_39968638	NC_021160.1	Ca_kabuli_chr01	39968638	TT	CC	1946745248
SNP_P4_15724_39968746	NC_021160.1	Ca_kabuli_chr01	39968746	TT	AA	1946745250
SNP_P4_15725_39968756	NC_021160.1	Ca_kabuli_chr01	39968756	GG	AA	1946745252
SNP_P4_15726_39970311	NC_021160.1	Ca_kabuli_chr01	39970311	GG	AA	1946745254
SNP_P4_15727_39971087	NC_021160.1	Ca_kabuli_chr01	39971087	GG	AA	1946745256
SNP_P4_15728_39973177	NC_021160.1	Ca_kabuli_chr01	39973177	CC	TT	1946745258
SNP_P4_15729_39974468	NC_021160.1	Ca_kabuli_chr01	39974468	GG	AA	1946745260
SNP_P4_15730_39978656	NC_021160.1	Ca_kabuli_chr01	39978656	CC	TT	1946745262
SNP_P4_15731_39978828	NC_021160.1	Ca_kabuli_chr01	39978828	GG	AA	1946745264
SNP_P4_15732_39981337	NC_021160.1	Ca_kabuli_chr01	39981337	CC	GG	1946745266
SNP_P4_15733_39982455	NC_021160.1	Ca_kabuli_chr01	39982455	AA	GG	1946745268
SNP_P4_15734_39984259	NC_021160.1	Ca_kabuli_chr01	39984259	GG	TT	1946745269
SNP_P4_15735_39984621	NC_021160.1	Ca_kabuli_chr01	39984621	AA	CC	1946745271
SNP_P4_15736_39984622	NC_021160.1	Ca_kabuli_chr01	39984622	CC	AA	1946745273
SNP_P4_15737_39985830	NC_021160.1	Ca_kabuli_chr01	39985830	TT	CC	1946745275
SNP_P4_15738_39986062	NC_021160.1	Ca_kabuli_chr01	39986062	AA	TT	1946745277
SNP_P4_15739_39992728	NC_021160.1	Ca_kabuli_chr01	39992728	CC	TT	1946745279

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_15741_39993822	NC_021160.1	Ca_kabuli_chr01	39993822	CC	GG	1946745283
SNP_P4_15742_39994434	NC_021160.1	Ca_kabuli_chr01	39994434	GG	AA	1946745285
SNP_P4_15743_39994667	NC_021160.1	Ca_kabuli_chr01	39994667	AA	GG	1946745287
SNP_P4_15744_39994734	NC_021160.1	Ca_kabuli_chr01	39994734	TT	GG	1946745289
SNP_P4_15745_39996690	NC_021160.1	Ca_kabuli_chr01	39996690	TT	AA	1946745291
SNP_P4_15746_39996727	NC_021160.1	Ca_kabuli_chr01	39996727	AA	CC	1946745293
SNP_P4_15747_39999130	NC_021160.1	Ca_kabuli_chr01	39999130	AA	GG	1946745295
SNP_P4_15748_40008188	NC_021160.1	Ca_kabuli_chr01	40008188	AA	GG	1946745297
SNP_P4_15749_40008199	NC_021160.1	Ca_kabuli_chr01	40008199	CC	TT	1946745299
SNP_P4_15750_40008851	NC_021160.1	Ca_kabuli_chr01	40008851	CC	AA	1946745301
SNP_P4_15751_40010027	NC_021160.1	Ca_kabuli_chr01	40010027	AA	GG	1946745303
SNP_P4_15752_40010497	NC_021160.1	Ca_kabuli_chr01	40010497	TT	AA	1946745305
SNP_P4_15753_40010719	NC_021160.1	Ca_kabuli_chr01	40010719	TT	AA	1946745307
SNP_P4_15755_40012232	NC_021160.1	Ca_kabuli_chr01	40012232	CC	TT	1946745309
SNP_P4_15756_40012766	NC_021160.1	Ca_kabuli_chr01	40012766	TT	GG	1946745311
SNP_P4_15757_40013406	NC_021160.1	Ca_kabuli_chr01	40013406	CC	AA	1946745313
SNP_P4_15758_40013440	NC_021160.1	Ca_kabuli_chr01	40013440	GG	AA	1946745315
SNP_P4_15759_40015048	NC_021160.1	Ca_kabuli_chr01	40015048	GG	AA	1946745317
SNP_P4_15760_40017121	NC_021160.1	Ca_kabuli_chr01	40017121	CC	TT	1946745319
SNP_P4_15761_40020252	NC_021160.1	Ca_kabuli_chr01	40020252	TT	CC	1946745321
SNP_P4_15762_40020787	NC_021160.1	Ca_kabuli_chr01	40020787	GG	TT	1946745323
SNP_P4_15763_40020794	NC_021160.1	Ca_kabuli_chr01	40020794	TT	AA	1946745325
SNP_P4_15764_40020880	NC_021160.1	Ca_kabuli_chr01	40020880	CC	TT	1946745327
SNP_P4_15766_40021905	NC_021160.1	Ca_kabuli_chr01	40021905	AA	CC	1946745329
SNP_P4_15767_40022071	NC_021160.1	Ca_kabuli_chr01	40022071	AA	GG	1946745331
SNP_P4_15768_40023432	NC_021160.1	Ca_kabuli_chr01	40023432	TT	AA	1946745333
SNP_P4_15769_40028376	NC_021160.1	Ca_kabuli_chr01	40028376	GG	AA	1946745335
SNP_P4_15771_40035916	NC_021160.1	Ca_kabuli_chr01	40035916	AA	GG	1946745337
SNP_P4_15772_40036860	NC_021160.1	Ca_kabuli_chr01	40036860	AA	TT	1946745339
SNP_P4_15773_40037486	NC_021160.1	Ca_kabuli_chr01	40037486	GG	CC	1946745341
SNP_P4_15774_40052456	NC_021160.1	Ca_kabuli_chr01	40052456	TT	GG	1946745343
SNP_P4_15775_40052846	NC_021160.1	Ca_kabuli_chr01	40052846	GG	AA	1946745345
SNP_P4_15776_40055735	NC_021160.1	Ca_kabuli_chr01	40055735	GG	AA	1946745347
SNP_P4_15777_40056643	NC_021160.1	Ca_kabuli_chr01	40056643	AA	CC	1946745349
SNP_P4_15779_40059054	NC_021160.1	Ca_kabuli_chr01	40059054	TT	CC	1946745351
SNP_P4_15780_40060493	NC_021160.1	Ca_kabuli_chr01	40060493	AA	GG	1946745353
SNP_P4_15781_40061096	NC_021160.1	Ca_kabuli_chr01	40061096	CC	GG	1946745355
SNP_P4_15782_40062120	NC_021160.1	Ca_kabuli_chr01	40062120	TT	CC	1946745357
SNP_P4_15783_40063944	NC_021160.1	Ca_kabuli_chr01	40063944	AA	GG	1946745359
SNP_P4_15784_40068296	NC_021160.1	Ca_kabuli_chr01	40068296	GG	AA	1946745361
SNP_P4_15785_40068317	NC_021160.1	Ca_kabuli_chr01	40068317	GG	AA	1946745363

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_15787_40068408	NC_021160.1	Ca_kabuli_chr01	40068408	TT	GG	1946745367
SNP_P4_15788_40068498	NC_021160.1	Ca_kabuli_chr01	40068498	CC	TT	1946745369
SNP_P4_15789_40068784	NC_021160.1	Ca_kabuli_chr01	40068784	AA	GG	1946745371
SNP_P4_15790_40068817	NC_021160.1	Ca_kabuli_chr01	40068817	CC	AA	1946745373
SNP_P4_15791_40072847	NC_021160.1	Ca_kabuli_chr01	40072847	AA	GG	1946745375
SNP_P4_15792_40074573	NC_021160.1	Ca_kabuli_chr01	40074573	AA	GG	1946745377
SNP_P4_15793_40074784	NC_021160.1	Ca_kabuli_chr01	40074784	TT	CC	1946745379
SNP_P4_15794_40075044	NC_021160.1	Ca_kabuli_chr01	40075044	AA	TT	1946745381
SNP_P4_15795_40078476	NC_021160.1	Ca_kabuli_chr01	40078476	AA	TT	1946745383
SNP_P4_15796_40080435	NC_021160.1	Ca_kabuli_chr01	40080435	AA	CC	1946745385
SNP_P4_15798_40083386	NC_021160.1	Ca_kabuli_chr01	40083386	CC	AA	1946745387
SNP_P4_15799_40083757	NC_021160.1	Ca_kabuli_chr01	40083757	GG	AA	1946745389
SNP_P4_15802_40092703	NC_021160.1	Ca_kabuli_chr01	40092703	CC	TT	1946745391
SNP_P4_15803_40092772	NC_021160.1	Ca_kabuli_chr01	40092772	TT	CC	1946745393
SNP_P4_15804_40092856	NC_021160.1	Ca_kabuli_chr01	40092856	TT	GG	1946745395
SNP_P4_15805_40093427	NC_021160.1	Ca_kabuli_chr01	40093427	CC	TT	1946745397
SNP_P4_15806_40096107	NC_021160.1	Ca_kabuli_chr01	40096107	AA	TT	1946745399
SNP_P4_15807_40098526	NC_021160.1	Ca_kabuli_chr01	40098526	TT	AA	1946745401
SNP_P4_15808_40101282	NC_021160.1	Ca_kabuli_chr01	40101282	CC	TT	1946745403
SNP_P4_15809_40101838	NC_021160.1	Ca_kabuli_chr01	40101838	AA	TT	1946745405
SNP_P4_15810_40101842	NC_021160.1	Ca_kabuli_chr01	40101842	CC	TT	1946745407
SNP_P4_15811_40102552	NC_021160.1	Ca_kabuli_chr01	40102552	GG	AA	1946745409
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SNP_P4_15813_40108768	NC_021160.1	Ca_kabuli_chr01	40108768	AA	CC	1946745413
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SNP_P4_15816_40119297	NC_021160.1	Ca_kabuli_chr01	40119297	GG	AA	1946745419
SNP_P4_15817_40119677	NC_021160.1	Ca_kabuli_chr01	40119677	AA	GG	1946745421
SNP_P4_15818_40120469	NC_021160.1	Ca_kabuli_chr01	40120469	TT	AA	1946745423
SNP_P4_15819_40120490	NC_021160.1	Ca_kabuli_chr01	40120490	AA	TT	1946745424
SNP_P4_15821_40125171	NC_021160.1	Ca_kabuli_chr01	40125171	CC	TT	1946745426
SNP_P4_15822_40125403	NC_021160.1	Ca_kabuli_chr01	40125403	TT	CC	1946745428
SNP_P4_15823_40126400	NC_021160.1	Ca_kabuli_chr01	40126400	GG	AA	1946745430
SNP_P4_15825_40129065	NC_021160.1	Ca_kabuli_chr01	40129065	AA	TT	1946745432
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SNP_P4_15827_40134782	NC_021160.1	Ca_kabuli_chr01	40134782	GG	AA	1946745436
SNP_P4_15828_40138771	NC_021160.1	Ca_kabuli_chr01	40138771	TT	CC	1946745438
SNP_P4_15829_40141831	NC_021160.1	Ca_kabuli_chr01	40141831	AA	GG	1946745440
SNP_P4_15830_40141832	NC_021160.1	Ca_kabuli_chr01	40141832	GG	AA	1946745442
SNP_P4_15831_40141836	NC_021160.1	Ca_kabuli_chr01	40141836	CC	GG	1946745444
SNP_P4_15832_40141854	NC_021160.1	Ca_kabuli_chr01	40141854	AA	TT	1946745446

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_15835_40142017	NC_021160.1	Ca_kabuli_chr01	40142017	CC	GG	1946745451
SNP_P4_15836_40142140	NC_021160.1	Ca_kabuli_chr01	40142140	TT	GG	1946745453
SNP_P4_15837_40142148	NC_021160.1	Ca_kabuli_chr01	40142148	AA	GG	1946745455
SNP_P4_15838_40142184	NC_021160.1	Ca_kabuli_chr01	40142184	TT	CC	1946745457
SNP_P4_15839_40142188	NC_021160.1	Ca_kabuli_chr01	40142188	AA	GG	1946745459
SNP_P4_15840_40142220	NC_021160.1	Ca_kabuli_chr01	40142220	GG	AA	1946745461
SNP_P4_15841_40142251	NC_021160.1	Ca_kabuli_chr01	40142251	TT	CC	1946745463
SNP_P4_15842_40142259	NC_021160.1	Ca_kabuli_chr01	40142259	TT	CC	1946745465
SNP_P4_15843_40142680	NC_021160.1	Ca_kabuli_chr01	40142680	CC	TT	1946745467
SNP_P4_15844_40142688	NC_021160.1	Ca_kabuli_chr01	40142688	AA	CC	1946745469
SNP_P4_15845_40144566	NC_021160.1	Ca_kabuli_chr01	40144566	GG	AA	1946745471
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SNP_P4_15847_40145898	NC_021160.1	Ca_kabuli_chr01	40145898	AA	GG	1946745475
SNP_P4_15849_40148602	NC_021160.1	Ca_kabuli_chr01	40148602	TT	CC	1946745476
SNP_P4_15851_40150883	NC_021160.1	Ca_kabuli_chr01	40150883	AA	GG	1946745478
SNP_P4_15852_40155764	NC_021160.1	Ca_kabuli_chr01	40155764	AA	GG	1946745480
SNP_P4_15853_40158294	NC_021160.1	Ca_kabuli_chr01	40158294	TT	GG	1946745482
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SNP_P4_15855_40160261	NC_021160.1	Ca_kabuli_chr01	40160261	GG	AA	1946745486
SNP_P4_15856_40161285	NC_021160.1	Ca_kabuli_chr01	40161285	TT	AA	1946745488
SNP_P4_15857_40163198	NC_021160.1	Ca_kabuli_chr01	40163198	GG	AA	1946745490
SNP_P4_15858_40164241	NC_021160.1	Ca_kabuli_chr01	40164241	GG	AA	1946745492
SNP_P4_15859_40164612	NC_021160.1	Ca_kabuli_chr01	40164612	CC	GG	1946745494
SNP_P4_15860_40164962	NC_021160.1	Ca_kabuli_chr01	40164962	AA	GG	1946745496
SNP_P4_15861_40170244	NC_021160.1	Ca_kabuli_chr01	40170244	CC	TT	1946745498
SNP_P4_15862_40175851	NC_021160.1	Ca_kabuli_chr01	40175851	TT	CC	1946745500
SNP_P4_15864_40177133	NC_021160.1	Ca_kabuli_chr01	40177133	TT	AA	1946745502
SNP_P4_15865_40177173	NC_021160.1	Ca_kabuli_chr01	40177173	AA	TT	1946745504
SNP_P4_15866_40177196	NC_021160.1	Ca_kabuli_chr01	40177196	GG	TT	1946745506
SNP_P4_15868_40177364	NC_021160.1	Ca_kabuli_chr01	40177364	AA	TT	1946745508
SNP_P4_15869_40177672	NC_021160.1	Ca_kabuli_chr01	40177672	CC	TT	1946745510
SNP_P4_15870_40177715	NC_021160.1	Ca_kabuli_chr01	40177715	CC	AA	1946745512
SNP_P4_15871_40177990	NC_021160.1	Ca_kabuli_chr01	40177990	AA	GG	1946745514
SNP_P4_15872_40178158	NC_021160.1	Ca_kabuli_chr01	40178158	TT	CC	1946745516
SNP_P4_15873_40178160	NC_021160.1	Ca_kabuli_chr01	40178160	TT	AA	1946745518
SNP_P4_15874_40178174	NC_021160.1	Ca_kabuli_chr01	40178174	TT	CC	1946745520
SNP_P4_15875_40178235	NC_021160.1	Ca_kabuli_chr01	40178235	AA	CC	1946745522
SNP_P4_15876_40178289	NC_021160.1	Ca_kabuli_chr01	40178289	TT	AA	1946745524
SNP_P4_15877_40178291	NC_021160.1	Ca_kabuli_chr01	40178291	TT	AA	1946745526
SNP_P4_15878_40178415	NC_021160.1	Ca_kabuli_chr01	40178415	GG	AA	1946745528

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_15879_40178444	NC_021160.1	Ca_kabuli_chr01	40178444	AA	TT	1946745530
SNP_P4_15880_40178668	NC_021160.1	Ca_kabuli_chr01	40178668	TT	AA	1946745532
SNP_P4_15881_40179542	NC_021160.1	Ca_kabuli_chr01	40179542	CC	TT	1946745534
SNP_P4_15882_40180623	NC_021160.1	Ca_kabuli_chr01	40180623	TT	CC	1946745536
SNP_P4_15883_40180823	NC_021160.1	Ca_kabuli_chr01	40180823	AA	GG	1946745538
SNP_P4_15884_40180903	NC_021160.1	Ca_kabuli_chr01	40180903	TT	CC	1946745540
SNP_P4_15886_40181341	NC_021160.1	Ca_kabuli_chr01	40181341	TT	CC	1946745542
SNP_P4_15887_40181353	NC_021160.1	Ca_kabuli_chr01	40181353	CC	GG	1946745544
SNP_P4_15888_40182362	NC_021160.1	Ca_kabuli_chr01	40182362	CC	TT	1946745546
SNP_P4_15889_40182649	NC_021160.1	Ca_kabuli_chr01	40182649	AA	GG	1946745548
SNP_P4_15890_40182693	NC_021160.1	Ca_kabuli_chr01	40182693	CC	TT	1946745550
SNP_P4_15891_40182828	NC_021160.1	Ca_kabuli_chr01	40182828	TT	CC	1946745552
SNP_P4_15892_40182995	NC_021160.1	Ca_kabuli_chr01	40182995	AA	GG	1946745553
SNP_P4_15893_40183024	NC_021160.1	Ca_kabuli_chr01	40183024	TT	CC	1946745555
SNP_P4_15894_40183044	NC_021160.1	Ca_kabuli_chr01	40183044	CC	GG	1946745557
SNP_P4_15895_40183046	NC_021160.1	Ca_kabuli_chr01	40183046	TT	CC	1946745559
SNP_P4_15896_40183056	NC_021160.1	Ca_kabuli_chr01	40183056	TT	CC	1946745561
SNP_P4_15897_40184349	NC_021160.1	Ca_kabuli_chr01	40184349	AA	GG	1946745563
SNP_P4_15898_40187755	NC_021160.1	Ca_kabuli_chr01	40187755	TT	CC	1946745565
SNP_P4_15899_40187861	NC_021160.1	Ca_kabuli_chr01	40187861	AA	GG	1946745567
SNP_P4_15900_40188160	NC_021160.1	Ca_kabuli_chr01	40188160	AA	CC	1946745569
SNP_P4_15901_40188938	NC_021160.1	Ca_kabuli_chr01	40188938	AA	CC	1946745571
SNP_P4_15902_40190260	NC_021160.1	Ca_kabuli_chr01	40190260	TT	GG	1946745573
SNP_P4_15903_40190296	NC_021160.1	Ca_kabuli_chr01	40190296	AA	GG	1946745575
SNP_P4_15904_40193391	NC_021160.1	Ca_kabuli_chr01	40193391	GG	CC	1946745577
SNP_P4_15905_40193513	NC_021160.1	Ca_kabuli_chr01	40193513	TT	CC	1946745579
SNP_P4_15906_40196132	NC_021160.1	Ca_kabuli_chr01	40196132	GG	CC	1946745581
SNP_P4_15907_40196776	NC_021160.1	Ca_kabuli_chr01	40196776	GG	AA	1946745583
SNP_P4_15908_40199339	NC_021160.1	Ca_kabuli_chr01	40199339	TT	CC	1946745585
SNP_P4_15909_40199659	NC_021160.1	Ca_kabuli_chr01	40199659	TT	CC	1946745587
SNP_P4_15910_40206927	NC_021160.1	Ca_kabuli_chr01	40206927	AA	GG	1946745589
SNP_P4_15911_40209145	NC_021160.1	Ca_kabuli_chr01	40209145	AA	GG	1946745591
SNP_P4_15912_40209170	NC_021160.1	Ca_kabuli_chr01	40209170	TT	GG	1946745593
SNP_P4_15913_40209225	NC_021160.1	Ca_kabuli_chr01	40209225	TT	CC	1946745595
SNP_P4_15914_40209291	NC_021160.1	Ca_kabuli_chr01	40209291	GG	AA	1946745597
SNP_P4_15915_40209296	NC_021160.1	Ca_kabuli_chr01	40209296	TT	CC	1946745599
SNP_P4_15916_40209315	NC_021160.1	Ca_kabuli_chr01	40209315	TT	CC	1946745601
SNP_P4_15917_40209338	NC_021160.1	Ca_kabuli_chr01	40209338	AA	GG	1946745603
SNP_P4_15918_40209340	NC_021160.1	Ca_kabuli_chr01	40209340	CC	AA	1946745605
SNP_P4_15919_40209499	NC_021160.1	Ca_kabuli_chr01	40209499	TT	CC	1946745607
SNP_P4_15920_40209500	NC_021160.1	Ca_kabuli_chr01	40209500	GG	CC	1946745609
SNP_P4_15921_40209507	NC_021160.1	Ca_kabuli_chr01	40209507	AA	CC	1946745611

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_15923_40214264	NC_021160.1	Ca_kabuli_chr01	40214264	CC	AA	1946745613
SNP_P4_15924_40214505	NC_021160.1	Ca_kabuli_chr01	40214505	CC	TT	1946745615
SNP_P4_15926_40216728	NC_021160.1	Ca_kabuli_chr01	40216728	TT	GG	1946745617
SNP_P4_15927_40216806	NC_021160.1	Ca_kabuli_chr01	40216806	CC	TT	1946745619
SNP_P4_15928_40216926	NC_021160.1	Ca_kabuli_chr01	40216926	AA	GG	1946745621
SNP_P4_15929_40217713	NC_021160.1	Ca_kabuli_chr01	40217713	GG	AA	1946745623
SNP_P4_15930_40217860	NC_021160.1	Ca_kabuli_chr01	40217860	GG	AA	1946745625
SNP_P4_15931_40219581	NC_021160.1	Ca_kabuli_chr01	40219581	GG	AA	1946745627
SNP_P4_15932_40219629	NC_021160.1	Ca_kabuli_chr01	40219629	GG	AA	1946745628
SNP_P4_15933_40219648	NC_021160.1	Ca_kabuli_chr01	40219648	AA	GG	1946745629
SNP_P4_15935_40219857	NC_021160.1	Ca_kabuli_chr01	40219857	GG	AA	1946745630
SNP_P4_15936_40220125	NC_021160.1	Ca_kabuli_chr01	40220125	CC	AA	1946745631
SNP_P4_15937_40222434	NC_021160.1	Ca_kabuli_chr01	40222434	TT	GG	1946745633
SNP_P4_15938_40223512	NC_021160.1	Ca_kabuli_chr01	40223512	AA	GG	1946745635
SNP_P4_15939_40223559	NC_021160.1	Ca_kabuli_chr01	40223559	TT	AA	1946745637
SNP_P4_15940_40224010	NC_021160.1	Ca_kabuli_chr01	40224010	AA	TT	1946745639
SNP_P4_15942_40226274	NC_021160.1	Ca_kabuli_chr01	40226274	GG	TT	1946745641
SNP_P4_15943_40226477	NC_021160.1	Ca_kabuli_chr01	40226477	CC	AA	1946745643
SNP_P4_15944_40226531	NC_021160.1	Ca_kabuli_chr01	40226531	CC	AA	1946745645
SNP_P4_15945_40228161	NC_021160.1	Ca_kabuli_chr01	40228161	CC	TT	1946745647
SNP_P4_15946_40229195	NC_021160.1	Ca_kabuli_chr01	40229195	CC	TT	1946745649
SNP_P4_15947_40230708	NC_021160.1	Ca_kabuli_chr01	40230708	AA	GG	1946745651
SNP_P4_15948_40230724	NC_021160.1	Ca_kabuli_chr01	40230724	AA	GG	1946745653
SNP_P4_15949_40230753	NC_021160.1	Ca_kabuli_chr01	40230753	AA	GG	1946745655
SNP_P4_15950_40230760	NC_021160.1	Ca_kabuli_chr01	40230760	AA	GG	1946745657
SNP_P4_15951_40231712	NC_021160.1	Ca_kabuli_chr01	40231712	GG	AA	1946745658
SNP_P4_15954_40232530	NC_021160.1	Ca_kabuli_chr01	40232530	TT	CC	1946745660
SNP_P4_15955_40232636	NC_021160.1	Ca_kabuli_chr01	40232636	AA	CC	1946745662
SNP_P4_15956_40233839	NC_021160.1	Ca_kabuli_chr01	40233839	GG	AA	1946745664
SNP_P4_15957_40233885	NC_021160.1	Ca_kabuli_chr01	40233885	TT	CC	1946745666
SNP_P4_15960_40235846	NC_021160.1	Ca_kabuli_chr01	40235846	TT	CC	1946745668
SNP_P4_15962_40248694	NC_021160.1	Ca_kabuli_chr01	40248694	AA	GG	1946745670
SNP_P4_15963_40251009	NC_021160.1	Ca_kabuli_chr01	40251009	AA	CC	1946745672
SNP_P4_15964_40251057	NC_021160.1	Ca_kabuli_chr01	40251057	CC	AA	1946745674
SNP_P4_15965_40257876	NC_021160.1	Ca_kabuli_chr01	40257876	GG	AA	1946745676
SNP_P4_15966_40258799	NC_021160.1	Ca_kabuli_chr01	40258799	GG	AA	1946745678
SNP_P4_15967_40258835	NC_021160.1	Ca_kabuli_chr01	40258835	CC	AA	1946745680
SNP_P4_15968_40259842	NC_021160.1	Ca_kabuli_chr01	40259842	CC	TT	1946745682
SNP_P4_15969_40260136	NC_021160.1	Ca_kabuli_chr01	40260136	TT	AA	1946745684
SNP_P4_15970_40260580	NC_021160.1	Ca_kabuli_chr01	40260580	CC	TT	1946745686
SNP_P4_15971_40260964	NC_021160.1	Ca_kabuli_chr01	40260964	AA	CC	1946745688
SNP_P4_15972_40261120	NC_021160.1	Ca_kabuli_chr01	40261120	TT	CC	1946745690

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_15974_40261702	NC_021160.1	Ca_kabuli_chr01	40261702	AA	GG	1946745694
SNP_P4_15975_40261857	NC_021160.1	Ca_kabuli_chr01	40261857	TT	GG	1946745696
SNP_P4_15977_40266519	NC_021160.1	Ca_kabuli_chr01	40266519	CC	TT	1946745698
SNP_P4_15978_40266571	NC_021160.1	Ca_kabuli_chr01	40266571	CC	TT	1946745700
SNP_P4_15979_40266584	NC_021160.1	Ca_kabuli_chr01	40266584	AA	GG	1946745702
SNP_P4_15980_40266706	NC_021160.1	Ca_kabuli_chr01	40266706	AA	TT	1946745704
SNP_P4_15981_40266714	NC_021160.1	Ca_kabuli_chr01	40266714	CC	AA	1946745706
SNP_P4_15982_40266726	NC_021160.1	Ca_kabuli_chr01	40266726	AA	GG	1946745708
SNP_P4_15983_40266737	NC_021160.1	Ca_kabuli_chr01	40266737	TT	CC	1946745710
SNP_P4_15984_40266745	NC_021160.1	Ca_kabuli_chr01	40266745	AA	GG	1946745712
SNP_P4_15985_40266888	NC_021160.1	Ca_kabuli_chr01	40266888	TT	CC	1946745714
SNP_P4_15986_40266918	NC_021160.1	Ca_kabuli_chr01	40266918	CC	GG	1946745716
SNP_P4_15987_40267680	NC_021160.1	Ca_kabuli_chr01	40267680	AA	GG	1946745718
SNP_P4_15988_40268068	NC_021160.1	Ca_kabuli_chr01	40268068	CC	TT	1946745720
SNP_P4_15989_40268093	NC_021160.1	Ca_kabuli_chr01	40268093	GG	TT	1946745722
SNP_P4_15990_40268144	NC_021160.1	Ca_kabuli_chr01	40268144	TT	GG	1946745724
SNP_P4_15991_40270998	NC_021160.1	Ca_kabuli_chr01	40270998	GG	AA	1946745726
SNP_P4_15992_40272039	NC_021160.1	Ca_kabuli_chr01	40272039	CC	GG	1946745728
SNP_P4_15993_40272069	NC_021160.1	Ca_kabuli_chr01	40272069	CC	TT	1946745729
SNP_P4_15994_40273068	NC_021160.1	Ca_kabuli_chr01	40273068	GG	CC	1946745731
SNP_P4_15995_40273093	NC_021160.1	Ca_kabuli_chr01	40273093	TT	AA	1946745733
SNP_P4_15996_40273117	NC_021160.1	Ca_kabuli_chr01	40273117	GG	AA	1946745735
SNP_P4_15997_40273163	NC_021160.1	Ca_kabuli_chr01	40273163	CC	TT	1946745737
SNP_P4_15998_40273311	NC_021160.1	Ca_kabuli_chr01	40273311	GG	TT	1946745739
SNP_P4_15999_40274751	NC_021160.1	Ca_kabuli_chr01	40274751	CC	TT	1946745741
SNP_P4_16000_40275916	NC_021160.1	Ca_kabuli_chr01	40275916	TT	CC	1946745743
SNP_P4_16001_40277269	NC_021160.1	Ca_kabuli_chr01	40277269	CC	TT	1946745745
SNP_P4_16002_40277694	NC_021160.1	Ca_kabuli_chr01	40277694	TT	GG	1946745747
SNP_P4_16004_40281336	NC_021160.1	Ca_kabuli_chr01	40281336	GG	AA	1946745749
SNP_P4_16005_40281674	NC_021160.1	Ca_kabuli_chr01	40281674	GG	CC	1946745751
SNP_P4_16006_40295790	NC_021160.1	Ca_kabuli_chr01	40295790	GG	AA	1946745753
SNP_P4_16007_40295823	NC_021160.1	Ca_kabuli_chr01	40295823	AA	CC	1946745755
SNP_P4_16008_40295824	NC_021160.1	Ca_kabuli_chr01	40295824	TT	CC	1946745757
SNP_P4_16009_40295827	NC_021160.1	Ca_kabuli_chr01	40295827	AA	GG	1946745759
SNP_P4_16010_40296021	NC_021160.1	Ca_kabuli_chr01	40296021	GG	TT	1946745761
SNP_P4_16011_40296205	NC_021160.1	Ca_kabuli_chr01	40296205	TT	CC	1946745763
SNP_P4_16012_40296223	NC_021160.1	Ca_kabuli_chr01	40296223	GG	AA	1946745765
SNP_P4_16013_40297327	NC_021160.1	Ca_kabuli_chr01	40297327	TT	CC	1946745766
SNP_P4_16014_40297330	NC_021160.1	Ca_kabuli_chr01	40297330	TT	CC	1946745768
SNP_P4_16015_40297522	NC_021160.1	Ca_kabuli_chr01	40297522	AA	GG	1946745770
SNP_P4_16017_40298691	NC_021160.1	Ca_kabuli_chr01	40298691	CC	GG	1946745772

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_16019_40299870	NC_021160.1	Ca_kabuli_chr01	40299870	GG	CC	1946745776
SNP_P4_16020_40299941	NC_021160.1	Ca_kabuli_chr01	40299941	CC	TT	1946745778
SNP_P4_16021_40299950	NC_021160.1	Ca_kabuli_chr01	40299950	CC	TT	1946745780
SNP_P4_16023_40301102	NC_021160.1	Ca_kabuli_chr01	40301102	AA	GG	1946745782
SNP_P4_16024_40301999	NC_021160.1	Ca_kabuli_chr01	40301999	AA	GG	1946745784
SNP_P4_16025_40302025	NC_021160.1	Ca_kabuli_chr01	40302025	GG	AA	1946745786
SNP_P4_16026_40302047	NC_021160.1	Ca_kabuli_chr01	40302047	GG	TT	1946745788
SNP_P4_16027_40302066	NC_021160.1	Ca_kabuli_chr01	40302066	AA	GG	1946745790
SNP_P4_16028_40302542	NC_021160.1	Ca_kabuli_chr01	40302542	GG	CC	1946745792
SNP_P4_16029_40302599	NC_021160.1	Ca_kabuli_chr01	40302599	GG	TT	1946745794
SNP_P4_16030_40302619	NC_021160.1	Ca_kabuli_chr01	40302619	TT	CC	1946745796
SNP_P4_16031_40303212	NC_021160.1	Ca_kabuli_chr01	40303212	GG	AA	1946745798
SNP_P4_16032_40303408	NC_021160.1	Ca_kabuli_chr01	40303408	AA	CC	1946745799
SNP_P4_16033_40311675	NC_021160.1	Ca_kabuli_chr01	40311675	GG	AA	1946745801
SNP_P4_16034_40312783	NC_021160.1	Ca_kabuli_chr01	40312783	AA	TT	1946745803
SNP_P4_16037_40314584	NC_021160.1	Ca_kabuli_chr01	40314584	TT	AA	1946745805
SNP_P4_16038_40315119	NC_021160.1	Ca_kabuli_chr01	40315119	CC	TT	1946745807
SNP_P4_16039_40316607	NC_021160.1	Ca_kabuli_chr01	40316607	GG	TT	1946745809
SNP_P4_16040_40319839	NC_021160.1	Ca_kabuli_chr01	40319839	AA	GG	1946745811
SNP_P4_16041_40319966	NC_021160.1	Ca_kabuli_chr01	40319966	GG	AA	1946745813
SNP_P4_16042_40320157	NC_021160.1	Ca_kabuli_chr01	40320157	TT	AA	1946745815
SNP_P4_16043_40320184	NC_021160.1	Ca_kabuli_chr01	40320184	TT	CC	1946745817
SNP_P4_16044_40322436	NC_021160.1	Ca_kabuli_chr01	40322436	TT	AA	1946745819
SNP_P4_16045_40325034	NC_021160.1	Ca_kabuli_chr01	40325034	GG	AA	1946745821
SNP_P4_16046_40325390	NC_021160.1	Ca_kabuli_chr01	40325390	AA	TT	1946745823
SNP_P4_16047_40325408	NC_021160.1	Ca_kabuli_chr01	40325408	CC	GG	1946745825
SNP_P4_16048_40325479	NC_021160.1	Ca_kabuli_chr01	40325479	AA	GG	1946745827
SNP_P4_16049_40325968	NC_021160.1	Ca_kabuli_chr01	40325968	CC	AA	1946745829
SNP_P4_16050_40325993	NC_021160.1	Ca_kabuli_chr01	40325993	AA	GG	1946745831
SNP_P4_16051_40326525	NC_021160.1	Ca_kabuli_chr01	40326525	CC	GG	1946745833
SNP_P4_16053_40330045	NC_021160.1	Ca_kabuli_chr01	40330045	AA	GG	1946745835
SNP_P4_16054_40330489	NC_021160.1	Ca_kabuli_chr01	40330489	AA	GG	1946745838
SNP_P4_16055_40330867	NC_021160.1	Ca_kabuli_chr01	40330867	GG	AA	1946745840
SNP_P4_16056_40331922	NC_021160.1	Ca_kabuli_chr01	40331922	CC	AA	1946745842
SNP_P4_16057_40332248	NC_021160.1	Ca_kabuli_chr01	40332248	TT	GG	1946745844
SNP_P4_16058_40332968	NC_021160.1	Ca_kabuli_chr01	40332968	CC	TT	1946745846
SNP_P4_16059_40334169	NC_021160.1	Ca_kabuli_chr01	40334169	AA	GG	1946745848
SNP_P4_16060_40335307	NC_021160.1	Ca_kabuli_chr01	40335307	TT	CC	1946745850
SNP_P4_16061_40336759	NC_021160.1	Ca_kabuli_chr01	40336759	CC	TT	1946745852
SNP_P4_16062_40337695	NC_021160.1	Ca_kabuli_chr01	40337695	CC	AA	1946745854
SNP_P4_16063_40339065	NC_021160.1	Ca_kabuli_chr01	40339065	CC	TT	1946745856

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_16065_40339260	NC_021160.1	Ca_kabuli_chr01	40339260	GG	AA	1946745860
SNP_P4_16066_40339277	NC_021160.1	Ca_kabuli_chr01	40339277	GG	AA	1946745862
SNP_P4_16067_40339286	NC_021160.1	Ca_kabuli_chr01	40339286	GG	AA	1946745864
SNP_P4_16068_40339584	NC_021160.1	Ca_kabuli_chr01	40339584	AA	GG	1946745866
SNP_P4_16069_40339619	NC_021160.1	Ca_kabuli_chr01	40339619	AA	GG	1946745868
SNP_P4_16070_40340160	NC_021160.1	Ca_kabuli_chr01	40340160	CC	AA	1946745870
SNP_P4_16071_40340183	NC_021160.1	Ca_kabuli_chr01	40340183	TT	CC	1946745872
SNP_P4_16072_40340212	NC_021160.1	Ca_kabuli_chr01	40340212	TT	CC	1946745874
SNP_P4_16073_40340645	NC_021160.1	Ca_kabuli_chr01	40340645	CC	TT	1946745876
SNP_P4_16074_40340791	NC_021160.1	Ca_kabuli_chr01	40340791	TT	CC	1946745878
SNP_P4_16075_40341036	NC_021160.1	Ca_kabuli_chr01	40341036	CC	TT	1946745880
SNP_P4_16076_40343216	NC_021160.1	Ca_kabuli_chr01	40343216	GG	TT	1946745882
SNP_P4_16077_40343434	NC_021160.1	Ca_kabuli_chr01	40343434	AA	TT	1946745884
SNP_P4_16078_40343495	NC_021160.1	Ca_kabuli_chr01	40343495	AA	GG	1946745886
SNP_P4_16079_40345679	NC_021160.1	Ca_kabuli_chr01	40345679	TT	CC	1946745888
SNP_P4_16080_40345758	NC_021160.1	Ca_kabuli_chr01	40345758	AA	GG	1946745890
SNP_P4_16081_40350497	NC_021160.1	Ca_kabuli_chr01	40350497	AA	TT	1946745892
SNP_P4_16082_40350639	NC_021160.1	Ca_kabuli_chr01	40350639	TT	AA	1946745894
SNP_P4_16083_40351698	NC_021160.1	Ca_kabuli_chr01	40351698	TT	CC	1946745896
SNP_P4_16084_40355208	NC_021160.1	Ca_kabuli_chr01	40355208	AA	TT	1946745898
SNP_P4_16086_40355426	NC_021160.1	Ca_kabuli_chr01	40355426	AA	TT	1946745900
SNP_P4_16088_40357085	NC_021160.1	Ca_kabuli_chr01	40357085	CC	TT	1946745901
SNP_P4_16089_40357098	NC_021160.1	Ca_kabuli_chr01	40357098	AA	GG	1946745903
SNP_P4_16090_40357218	NC_021160.1	Ca_kabuli_chr01	40357218	AA	TT	1946745905
SNP_P4_16091_40358385	NC_021160.1	Ca_kabuli_chr01	40358385	CC	TT	1946745907
SNP_P4_16093_40358465	NC_021160.1	Ca_kabuli_chr01	40358465	CC	TT	1946745909
SNP_P4_16094_40358693	NC_021160.1	Ca_kabuli_chr01	40358693	CC	TT	1946745911
SNP_P4_16095_40359240	NC_021160.1	Ca_kabuli_chr01	40359240	TT	AA	1946745913
SNP_P4_16096_40359244	NC_021160.1	Ca_kabuli_chr01	40359244	CC	TT	1946745915
SNP_P4_16097_40359525	NC_021160.1	Ca_kabuli_chr01	40359525	TT	AA	1946745917
SNP_P4_16098_40359605	NC_021160.1	Ca_kabuli_chr01	40359605	TT	CC	1946745919
SNP_P4_16099_40363009	NC_021160.1	Ca_kabuli_chr01	40363009	AA	GG	1946745921
SNP_P4_16100_40363822	NC_021160.1	Ca_kabuli_chr01	40363822	AA	CC	1946745923
SNP_P4_16101_40364553	NC_021160.1	Ca_kabuli_chr01	40364553	TT	GG	1946745924
SNP_P4_16102_40367634	NC_021160.1	Ca_kabuli_chr01	40367634	TT	CC	1946745926
SNP_P4_16103_40368684	NC_021160.1	Ca_kabuli_chr01	40368684	GG	AA	1946745929
SNP_P4_16104_40370373	NC_021160.1	Ca_kabuli_chr01	40370373	AA	GG	1946745931
SNP_P4_16105_40370449	NC_021160.1	Ca_kabuli_chr01	40370449	CC	TT	1946745932
SNP_P4_16106_40373313	NC_021160.1	Ca_kabuli_chr01	40373313	AA	TT	1946745934
SNP_P4_16107_40373482	NC_021160.1	Ca_kabuli_chr01	40373482	AA	TT	1946745936
SNP_P4_16108_40373554	NC_021160.1	Ca_kabuli_chr01	40373554	GG	AA	1946745938

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_16111_40373860	NC_021160.1	Ca_kabuli_chr01	40373860	TT	AA	1946745942
SNP_P4_16112_40374130	NC_021160.1	Ca_kabuli_chr01	40374130	GG	TT	1946745944
SNP_P4_16113_40391478	NC_021160.1	Ca_kabuli_chr01	40391478	TT	CC	1946745946
SNP_P4_16114_40391509	NC_021160.1	Ca_kabuli_chr01	40391509	GG	AA	1946745948
SNP_P4_16115_40391513	NC_021160.1	Ca_kabuli_chr01	40391513	AA	GG	1946745950
SNP_P4_16116_40392220	NC_021160.1	Ca_kabuli_chr01	40392220	GG	TT	1946745952
SNP_P4_16117_40392545	NC_021160.1	Ca_kabuli_chr01	40392545	AA	TT	1946745954
SNP_P4_16118_40393080	NC_021160.1	Ca_kabuli_chr01	40393080	GG	TT	1946745956
SNP_P4_16119_40393102	NC_021160.1	Ca_kabuli_chr01	40393102	CC	GG	1946745958
SNP_P4_16120_40393945	NC_021160.1	Ca_kabuli_chr01	40393945	AA	GG	1946745960
SNP_P4_16121_40394267	NC_021160.1	Ca_kabuli_chr01	40394267	AA	GG	1946745961
SNP_P4_16123_40396244	NC_021160.1	Ca_kabuli_chr01	40396244	GG	AA	1946745963
SNP_P4_16124_40396996	NC_021160.1	Ca_kabuli_chr01	40396996	AA	GG	1946745965
SNP_P4_16125_40396997	NC_021160.1	Ca_kabuli_chr01	40396997	CC	TT	1946745967
SNP_P4_16126_40397007	NC_021160.1	Ca_kabuli_chr01	40397007	GG	TT	1946745969
SNP_P4_16127_40397169	NC_021160.1	Ca_kabuli_chr01	40397169	CC	TT	1946745971
SNP_P4_16128_40397220	NC_021160.1	Ca_kabuli_chr01	40397220	TT	CC	1946745973
SNP_P4_16129_40397232	NC_021160.1	Ca_kabuli_chr01	40397232	AA	GG	1946745975
SNP_P4_16130_40397237	NC_021160.1	Ca_kabuli_chr01	40397237	TT	CC	1946745977
SNP_P4_16131_40397474	NC_021160.1	Ca_kabuli_chr01	40397474	TT	GG	1946745979
SNP_P4_16132_40397875	NC_021160.1	Ca_kabuli_chr01	40397875	CC	AA	1946745981
SNP_P4_16133_40398163	NC_021160.1	Ca_kabuli_chr01	40398163	GG	TT	1946745983
SNP_P4_16134_40398192	NC_021160.1	Ca_kabuli_chr01	40398192	TT	CC	1946745985
SNP_P4_16135_40398256	NC_021160.1	Ca_kabuli_chr01	40398256	AA	TT	1946745987
SNP_P4_16136_40398284	NC_021160.1	Ca_kabuli_chr01	40398284	GG	TT	1946745989
SNP_P4_16137_40398371	NC_021160.1	Ca_kabuli_chr01	40398371	AA	CC	1946745991
SNP_P4_16139_40398393	NC_021160.1	Ca_kabuli_chr01	40398393	GG	AA	1946745993
SNP_P4_16140_40398405	NC_021160.1	Ca_kabuli_chr01	40398405	AA	CC	1946745995
SNP_P4_16141_40398414	NC_021160.1	Ca_kabuli_chr01	40398414	TT	AA	1946745997
SNP_P4_16142_40398635	NC_021160.1	Ca_kabuli_chr01	40398635	TT	CC	1946745999
SNP_P4_16143_40398865	NC_021160.1	Ca_kabuli_chr01	40398865	AA	GG	1946746001
SNP_P4_16144_40398869	NC_021160.1	Ca_kabuli_chr01	40398869	GG	TT	1946746003
SNP_P4_16146_40400515	NC_021160.1	Ca_kabuli_chr01	40400515	TT	CC	1946746005
SNP_P4_16147_40400602	NC_021160.1	Ca_kabuli_chr01	40400602	CC	TT	1946746007
SNP_P4_16148_40401933	NC_021160.1	Ca_kabuli_chr01	40401933	TT	CC	1946746009
SNP_P4_16149_40402364	NC_021160.1	Ca_kabuli_chr01	40402364	AA	GG	1946746011
SNP_P4_16150_40402454	NC_021160.1	Ca_kabuli_chr01	40402454	TT	CC	1946746013
SNP_P4_16151_40403626	NC_021160.1	Ca_kabuli_chr01	40403626	TT	GG	1946746015
SNP_P4_16152_40404716	NC_021160.1	Ca_kabuli_chr01	40404716	GG	TT	1946746017
SNP_P4_16153_40405036	NC_021160.1	Ca_kabuli_chr01	40405036	TT	CC	1946746019
SNP_P4_16154_40405224	NC_021160.1	Ca_kabuli_chr01	40405224	CC	TT	1946746021

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_16156_40407074	NC_021160.1	Ca_kabuli_chr01	40407074	TT	AA	1946746023
SNP_P4_16157_40407325	NC_021160.1	Ca_kabuli_chr01	40407325	GG	AA	1946746024
SNP_P4_16158_40407453	NC_021160.1	Ca_kabuli_chr01	40407453	TT	CC	1946746025
SNP_P4_16159_40407584	NC_021160.1	Ca_kabuli_chr01	40407584	GG	AA	1946746027
SNP_P4_16160_40407751	NC_021160.1	Ca_kabuli_chr01	40407751	TT	CC	1946746029
SNP_P4_16162_40408455	NC_021160.1	Ca_kabuli_chr01	40408455	GG	TT	1946746031
SNP_P4_16164_40408549	NC_021160.1	Ca_kabuli_chr01	40408549	GG	AA	1946746033
SNP_P4_16166_40408979	NC_021160.1	Ca_kabuli_chr01	40408979	TT	GG	1946746035
SNP_P4_16167_40411531	NC_021160.1	Ca_kabuli_chr01	40411531	GG	CC	1946746037
SNP_P4_16168_40411532	NC_021160.1	Ca_kabuli_chr01	40411532	CC	TT	1946746039
SNP_P4_16169_40412065	NC_021160.1	Ca_kabuli_chr01	40412065	AA	GG	1946746041
SNP_P4_16170_40412101	NC_021160.1	Ca_kabuli_chr01	40412101	AA	GG	1946746043
SNP_P4_16171_40412294	NC_021160.1	Ca_kabuli_chr01	40412294	CC	TT	1946746045
SNP_P4_16172_40412513	NC_021160.1	Ca_kabuli_chr01	40412513	AA	TT	1946746047
SNP_P4_16173_40412520	NC_021160.1	Ca_kabuli_chr01	40412520	TT	AA	1946746049
SNP_P4_16174_40413000	NC_021160.1	Ca_kabuli_chr01	40413000	AA	GG	1946746051
SNP_P4_16175_40413052	NC_021160.1	Ca_kabuli_chr01	40413052	AA	GG	1946746052
SNP_P4_16176_40413722	NC_021160.1	Ca_kabuli_chr01	40413722	GG	AA	1946746054
SNP_P4_16177_40414088	NC_021160.1	Ca_kabuli_chr01	40414088	AA	TT	1946746056
SNP_P4_16178_40415057	NC_021160.1	Ca_kabuli_chr01	40415057	GG	AA	1946746058
SNP_P4_16179_40415443	NC_021160.1	Ca_kabuli_chr01	40415443	TT	CC	1946746060
SNP_P4_16180_40417200	NC_021160.1	Ca_kabuli_chr01	40417200	GG	AA	1946746062
SNP_P4_16181_40417256	NC_021160.1	Ca_kabuli_chr01	40417256	TT	CC	1946746064
SNP_P4_16182_40419760	NC_021160.1	Ca_kabuli_chr01	40419760	CC	TT	1946746066
SNP_P4_16183_40421977	NC_021160.1	Ca_kabuli_chr01	40421977	TT	GG	1946746068
SNP_P4_16185_40422082	NC_021160.1	Ca_kabuli_chr01	40422082	AA	GG	1946746070
SNP_P4_16186_40422261	NC_021160.1	Ca_kabuli_chr01	40422261	CC	TT	1946746072
SNP_P4_16187_40422274	NC_021160.1	Ca_kabuli_chr01	40422274	CC	TT	1946746073
SNP_P4_16188_40422275	NC_021160.1	Ca_kabuli_chr01	40422275	AA	GG	1946746075
SNP_P4_16189_40422741	NC_021160.1	Ca_kabuli_chr01	40422741	GG	AA	1946746077
SNP_P4_16193_40425111	NC_021160.1	Ca_kabuli_chr01	40425111	CC	TT	1946746079
SNP_P4_16194_40425222	NC_021160.1	Ca_kabuli_chr01	40425222	AA	CC	1946746081
SNP_P4_16198_40425617	NC_021160.1	Ca_kabuli_chr01	40425617	CC	TT	1946746083
SNP_P4_16199_40425657	NC_021160.1	Ca_kabuli_chr01	40425657	CC	AA	1946746085
SNP_P4_16200_40425985	NC_021160.1	Ca_kabuli_chr01	40425985	AA	GG	1946746087
SNP_P4_16201_40426020	NC_021160.1	Ca_kabuli_chr01	40426020	CC	TT	1946746089
SNP_P4_16202_40427012	NC_021160.1	Ca_kabuli_chr01	40427012	GG	AA	1946746091
SNP_P4_16203_40427139	NC_021160.1	Ca_kabuli_chr01	40427139	CC	TT	1946746093
SNP_P4_16204_40427557	NC_021160.1	Ca_kabuli_chr01	40427557	CC	TT	1946746094
SNP_P4_16205_40427661	NC_021160.1	Ca_kabuli_chr01	40427661	TT	CC	1946746096
SNP_P4_16206_40428100	NC_021160.1	Ca_kabuli_chr01	40428100	CC	GG	1946746098

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_16208_40430372	NC_021160.1	Ca_kabuli_chr01	40430372	GG	AA	1946746102
SNP_P4_16209_40430390	NC_021160.1	Ca_kabuli_chr01	40430390	AA	GG	1946746104
SNP_P4_16210_40430391	NC_021160.1	Ca_kabuli_chr01	40430391	GG	AA	1946746106
SNP_P4_16211_40444676	NC_021160.1	Ca_kabuli_chr01	40444676	AA	GG	1946746108
SNP_P4_16212_40444723	NC_021160.1	Ca_kabuli_chr01	40444723	GG	AA	1946746110
SNP_P4_16213_40445006	NC_021160.1	Ca_kabuli_chr01	40445006	TT	CC	1946746112
SNP_P4_16214_40445042	NC_021160.1	Ca_kabuli_chr01	40445042	GG	AA	1946746114
SNP_P4_16215_40445449	NC_021160.1	Ca_kabuli_chr01	40445449	AA	GG	1946746116
SNP_P4_16217_40483777	NC_021160.1	Ca_kabuli_chr01	40483777	AA	GG	1946746118
SNP_P4_16218_40508404	NC_021160.1	Ca_kabuli_chr01	40508404	TT	GG	1946746120
SNP_P4_16219_40511709	NC_021160.1	Ca_kabuli_chr01	40511709	TT	GG	1946746122
SNP_P4_16223_40538435	NC_021160.1	Ca_kabuli_chr01	40538435	CC	AA	1946746124
SNP_P4_16224_40538436	NC_021160.1	Ca_kabuli_chr01	40538436	TT	CC	1946746126
SNP_P4_16225_40538438	NC_021160.1	Ca_kabuli_chr01	40538438	CC	GG	1946746128
SNP_P4_16226_40538452	NC_021160.1	Ca_kabuli_chr01	40538452	AA	GG	1946746130
SNP_P4_16227_40543474	NC_021160.1	Ca_kabuli_chr01	40543474	TT	AA	1946746132
SNP_P4_16228_40543475	NC_021160.1	Ca_kabuli_chr01	40543475	AA	TT	1946746134
SNP_P4_16229_40543476	NC_021160.1	Ca_kabuli_chr01	40543476	AA	TT	1946746136
SNP_P4_16230_40543543	NC_021160.1	Ca_kabuli_chr01	40543543	CC	TT	1946746138
SNP_P4_16231_40543556	NC_021160.1	Ca_kabuli_chr01	40543556	AA	CC	1946746140
SNP_P4_16232_40587383	NC_021160.1	Ca_kabuli_chr01	40587383	CC	TT	1946746142
SNP_P4_16233_40595793	NC_021160.1	Ca_kabuli_chr01	40595793	CC	TT	1946746144
SNP_P4_16235_40627149	NC_021160.1	Ca_kabuli_chr01	40627149	AA	TT	1946746146
SNP_P4_16236_40628085	NC_021160.1	Ca_kabuli_chr01	40628085	TT	AA	1946746148
SNP_P4_16237_40650391	NC_021160.1	Ca_kabuli_chr01	40650391	CC	GG	1946746150
SNP_P4_16239_40674866	NC_021160.1	Ca_kabuli_chr01	40674866	TT	AA	1946746152
SNP_P4_16241_40743052	NC_021160.1	Ca_kabuli_chr01	40743052	TT	CC	1946746154
SNP_P4_16242_40747601	NC_021160.1	Ca_kabuli_chr01	40747601	TT	AA	1946746156
SNP_P4_16243_40747753	NC_021160.1	Ca_kabuli_chr01	40747753	TT	AA	1946746158
SNP_P4_16244_40747881	NC_021160.1	Ca_kabuli_chr01	40747881	GG	CC	1946746160
SNP_P4_16245_40766011	NC_021160.1	Ca_kabuli_chr01	40766011	CC	GG	1946746162
SNP_P4_16246_40766014	NC_021160.1	Ca_kabuli_chr01	40766014	TT	CC	1946746164
SNP_P4_16247_40766016	NC_021160.1	Ca_kabuli_chr01	40766016	TT	GG	1946746166
SNP_P4_16248_40766023	NC_021160.1	Ca_kabuli_chr01	40766023	TT	CC	1946746168
SNP_P4_16249_40766025	NC_021160.1	Ca_kabuli_chr01	40766025	GG	AA	1946746170
SNP_P4_16250_40785395	NC_021160.1	Ca_kabuli_chr01	40785395	TT	CC	1946746172
SNP_P4_16251_40791885	NC_021160.1	Ca_kabuli_chr01	40791885	CC	TT	1946746173
SNP_P4_16252_40801216	NC_021160.1	Ca_kabuli_chr01	40801216	TT	AA	1946746175
SNP_P4_16253_40801221	NC_021160.1	Ca_kabuli_chr01	40801221	AA	GG	1946746177
SNP_P4_16254_40801224	NC_021160.1	Ca_kabuli_chr01	40801224	TT	CC	1946746179
SNP_P4_16255_40803495	NC_021160.1	Ca_kabuli_chr01	40803495	AA	TT	1946746181

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_16257_40810141	NC_021160.1	Ca_kabuli_chr01	40810141	TT	CC	1946746185
SNP_P4_16258_40810202	NC_021160.1	Ca_kabuli_chr01	40810202	GG	AA	1946746187
SNP_P4_16259_40814686	NC_021160.1	Ca_kabuli_chr01	40814686	TT	CC	1946746189
SNP_P4_16261_40814731	NC_021160.1	Ca_kabuli_chr01	40814731	GG	AA	1946746191
SNP_P4_16262_40814759	NC_021160.1	Ca_kabuli_chr01	40814759	TT	CC	1946746193
SNP_P4_16263_40814760	NC_021160.1	Ca_kabuli_chr01	40814760	TT	CC	1946746195
SNP_P4_16264_40814778	NC_021160.1	Ca_kabuli_chr01	40814778	GG	TT	1946746197
SNP_P4_16265_40814811	NC_021160.1	Ca_kabuli_chr01	40814811	AA	GG	1946746199
SNP_P4_16266_40814833	NC_021160.1	Ca_kabuli_chr01	40814833	TT	CC	1946746201
SNP_P4_16267_40814834	NC_021160.1	Ca_kabuli_chr01	40814834	AA	GG	1946746203
SNP_P4_16268_40814942	NC_021160.1	Ca_kabuli_chr01	40814942	TT	GG	1946746205
SNP_P4_16269_40814943	NC_021160.1	Ca_kabuli_chr01	40814943	GG	TT	1946746207
SNP_P4_16270_40816877	NC_021160.1	Ca_kabuli_chr01	40816877	TT	CC	1946746209
SNP_P4_16271_40827819	NC_021160.1	Ca_kabuli_chr01	40827819	CC	TT	1946746211
SNP_P4_16272_40827843	NC_021160.1	Ca_kabuli_chr01	40827843	CC	GG	1946746213
SNP_P4_16273_40838153	NC_021160.1	Ca_kabuli_chr01	40838153	GG	AA	1946746215
SNP_P4_16274_40838269	NC_021160.1	Ca_kabuli_chr01	40838269	TT	AA	1946746217
SNP_P4_16275_40838282	NC_021160.1	Ca_kabuli_chr01	40838282	GG	TT	1946746218
SNP_P4_16276_40838510	NC_021160.1	Ca_kabuli_chr01	40838510	GG	AA	1946746220
SNP_P4_16277_40838595	NC_021160.1	Ca_kabuli_chr01	40838595	GG	TT	1946746222
SNP_P4_16278_40838601	NC_021160.1	Ca_kabuli_chr01	40838601	GG	AA	1946746224
SNP_P4_16279_40838604	NC_021160.1	Ca_kabuli_chr01	40838604	TT	CC	1946746226
SNP_P4_16280_40859723	NC_021160.1	Ca_kabuli_chr01	40859723	TT	AA	1946746228
SNP_P4_16281_40859858	NC_021160.1	Ca_kabuli_chr01	40859858	GG	AA	1946746230
SNP_P4_16282_40860987	NC_021160.1	Ca_kabuli_chr01	40860987	CC	TT	1946746232
SNP_P4_16283_40861248	NC_021160.1	Ca_kabuli_chr01	40861248	CC	TT	1946746234
SNP_P4_16284_40861269	NC_021160.1	Ca_kabuli_chr01	40861269	TT	GG	1946746236
SNP_P4_16285_40862017	NC_021160.1	Ca_kabuli_chr01	40862017	AA	GG	1946746237
SNP_P4_16286_40862018	NC_021160.1	Ca_kabuli_chr01	40862018	CC	TT	1946746239
SNP_P4_16287_40870048	NC_021160.1	Ca_kabuli_chr01	40870048	CC	TT	1946746241
SNP_P4_16288_40871861	NC_021160.1	Ca_kabuli_chr01	40871861	CC	TT	1946746243
SNP_P4_16289_40871869	NC_021160.1	Ca_kabuli_chr01	40871869	AA	CC	1946746245
SNP_P4_16291_40872330	NC_021160.1	Ca_kabuli_chr01	40872330	AA	GG	1946746247
SNP_P4_16292_40872333	NC_021160.1	Ca_kabuli_chr01	40872333	CC	TT	1946746249
SNP_P4_16293_40872354	NC_021160.1	Ca_kabuli_chr01	40872354	TT	GG	1946746251
SNP_P4_16294_40872402	NC_021160.1	Ca_kabuli_chr01	40872402	AA	GG	1946746253
SNP_P4_16295_40872406	NC_021160.1	Ca_kabuli_chr01	40872406	AA	GG	1946746255
SNP_P4_16296_40872426	NC_021160.1	Ca_kabuli_chr01	40872426	AA	GG	1946746257
SNP_P4_16297_40872442	NC_021160.1	Ca_kabuli_chr01	40872442	TT	CC	1946746259
SNP_P4_16298_40872459	NC_021160.1	Ca_kabuli_chr01	40872459	AA	CC	1946746261
SNP_P4_16299_40883349	NC_021160.1	Ca_kabuli_chr01	40883349	CC	TT	1946746263

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_16301_40887554	NC_021160.1	Ca_kabuli_chr01	40887554	CC	TT	1946746267
SNP_P4_16302_40887567	NC_021160.1	Ca_kabuli_chr01	40887567	GG	AA	1946746269
SNP_P4_16303_40887595	NC_021160.1	Ca_kabuli_chr01	40887595	CC	TT	1946746271
SNP_P4_16304_40887832	NC_021160.1	Ca_kabuli_chr01	40887832	GG	AA	1946746273
SNP_P4_16305_40887877	NC_021160.1	Ca_kabuli_chr01	40887877	TT	CC	1946746275
SNP_P4_16307_40887886	NC_021160.1	Ca_kabuli_chr01	40887886	CC	AA	1946746277
SNP_P4_16308_40887975	NC_021160.1	Ca_kabuli_chr01	40887975	GG	AA	1946746279
SNP_P4_16309_40888194	NC_021160.1	Ca_kabuli_chr01	40888194	CC	TT	1946746281
SNP_P4_16310_40889660	NC_021160.1	Ca_kabuli_chr01	40889660	GG	TT	1946746282
SNP_P4_16311_40889662	NC_021160.1	Ca_kabuli_chr01	40889662	AA	TT	1946746284
SNP_P4_16312_40889664	NC_021160.1	Ca_kabuli_chr01	40889664	CC	TT	1946746286
SNP_P4_16313_40889742	NC_021160.1	Ca_kabuli_chr01	40889742	AA	GG	1946746288
SNP_P4_16315_40889817	NC_021160.1	Ca_kabuli_chr01	40889817	TT	AA	1946746290
SNP_P4_16316_40890118	NC_021160.1	Ca_kabuli_chr01	40890118	GG	CC	1946746292
SNP_P4_16317_40890134	NC_021160.1	Ca_kabuli_chr01	40890134	CC	AA	1946746294
SNP_P4_16318_40890162	NC_021160.1	Ca_kabuli_chr01	40890162	GG	TT	1946746299
SNP_P4_16319_40890181	NC_021160.1	Ca_kabuli_chr01	40890181	AA	TT	1946746301
SNP_P4_16320_40890183	NC_021160.1	Ca_kabuli_chr01	40890183	TT	CC	1946746303
SNP_P4_16321_40890201	NC_021160.1	Ca_kabuli_chr01	40890201	TT	CC	1946746305
SNP_P4_16322_40890259	NC_021160.1	Ca_kabuli_chr01	40890259	TT	AA	1946746307
SNP_P4_16323_40890260	NC_021160.1	Ca_kabuli_chr01	40890260	TT	AA	1946746309
SNP_P4_16324_40890357	NC_021160.1	Ca_kabuli_chr01	40890357	AA	GG	1946746311
SNP_P4_16325_40890419	NC_021160.1	Ca_kabuli_chr01	40890419	CC	TT	1946746313
SNP_P4_16326_40890432	NC_021160.1	Ca_kabuli_chr01	40890432	CC	TT	1946746316
SNP_P4_16327_40890452	NC_021160.1	Ca_kabuli_chr01	40890452	AA	GG	1946746318
SNP_P4_16328_40890472	NC_021160.1	Ca_kabuli_chr01	40890472	GG	AA	1946746320
SNP_P4_16330_40890650	NC_021160.1	Ca_kabuli_chr01	40890650	AA	TT	1946746322
SNP_P4_16331_40890656	NC_021160.1	Ca_kabuli_chr01	40890656	TT	CC	1946746324
SNP_P4_16333_40890729	NC_021160.1	Ca_kabuli_chr01	40890729	TT	GG	1946746326
SNP_P4_16334_40890741	NC_021160.1	Ca_kabuli_chr01	40890741	GG	CC	1946746328
SNP_P4_16335_40890743	NC_021160.1	Ca_kabuli_chr01	40890743	AA	CC	1946746330
SNP_P4_16336_40896209	NC_021160.1	Ca_kabuli_chr01	40896209	GG	AA	1946746332
SNP_P4_16337_40896498	NC_021160.1	Ca_kabuli_chr01	40896498	CC	TT	1946746334
SNP_P4_16338_40896505	NC_021160.1	Ca_kabuli_chr01	40896505	GG	AA	1946746337
SNP_P4_16339_40896506	NC_021160.1	Ca_kabuli_chr01	40896506	AA	CC	1946746339
SNP_P4_16340_40896539	NC_021160.1	Ca_kabuli_chr01	40896539	TT	CC	1946746341
SNP_P4_16341_40897022	NC_021160.1	Ca_kabuli_chr01	40897022	GG	AA	1946746343
SNP_P4_16342_40897024	NC_021160.1	Ca_kabuli_chr01	40897024	AA	CC	1946746345
SNP_P4_16343_40897074	NC_021160.1	Ca_kabuli_chr01	40897074	CC	GG	1946746347
SNP_P4_16344_40897093	NC_021160.1	Ca_kabuli_chr01	40897093	AA	GG	1946746349
SNP_P4_16345_40897234	NC_021160.1	Ca_kabuli_chr01	40897234	GG	AA	1946746351

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_16347_40898782	NC_021160.1	Ca_kabuli_chr01	40898782	TT	CC	1946746355
SNP_P4_16348_40898807	NC_021160.1	Ca_kabuli_chr01	40898807	AA	GG	1946746357
SNP_P4_16349_40898823	NC_021160.1	Ca_kabuli_chr01	40898823	CC	TT	1946746359
SNP_P4_16350_40899089	NC_021160.1	Ca_kabuli_chr01	40899089	AA	TT	1946746361
SNP_P4_16351_40899123	NC_021160.1	Ca_kabuli_chr01	40899123	GG	TT	1946746363
SNP_P4_16353_40899340	NC_021160.1	Ca_kabuli_chr01	40899340	GG	AA	1946746365
SNP_P4_16355_40931726	NC_021160.1	Ca_kabuli_chr01	40931726	CC	TT	1946746367
SNP_P4_16356_40934996	NC_021160.1	Ca_kabuli_chr01	40934996	TT	GG	1946746369
SNP_P4_16357_40934998	NC_021160.1	Ca_kabuli_chr01	40934998	CC	GG	1946746371
SNP_P4_16359_41033413	NC_021160.1	Ca_kabuli_chr01	41033413	GG	AA	1946746373
SNP_P4_16361_41103326	NC_021160.1	Ca_kabuli_chr01	41103326	CC	TT	1946746375
SNP_P4_16362_41103408	NC_021160.1	Ca_kabuli_chr01	41103408	AA	GG	1946746377
SNP_P4_16364_41103731	NC_021160.1	Ca_kabuli_chr01	41103731	TT	CC	1946746380
SNP_P4_16365_41103766	NC_021160.1	Ca_kabuli_chr01	41103766	TT	CC	1946746381
SNP_P4_16367_41187580	NC_021160.1	Ca_kabuli_chr01	41187580	GG	AA	1946746383
SNP_P4_16368_41226426	NC_021160.1	Ca_kabuli_chr01	41226426	GG	AA	1946746386
SNP_P4_16369_41234855	NC_021160.1	Ca_kabuli_chr01	41234855	CC	GG	1946746388
SNP_P4_16370_41234860	NC_021160.1	Ca_kabuli_chr01	41234860	CC	TT	1946746389
SNP_P4_16371_41234861	NC_021160.1	Ca_kabuli_chr01	41234861	GG	AA	1946746391
SNP_P4_16372_41234880	NC_021160.1	Ca_kabuli_chr01	41234880	TT	CC	1946746393
SNP_P4_16373_41237292	NC_021160.1	Ca_kabuli_chr01	41237292	TT	CC	1946746395
SNP_P4_16374_41237347	NC_021160.1	Ca_kabuli_chr01	41237347	TT	AA	1946746397
SNP_P4_16375_41238528	NC_021160.1	Ca_kabuli_chr01	41238528	AA	GG	1946746399
SNP_P4_16376_41238610	NC_021160.1	Ca_kabuli_chr01	41238610	AA	CC	1946746401
SNP_P4_16377_41238613	NC_021160.1	Ca_kabuli_chr01	41238613	TT	CC	1946746403
SNP_P4_16378_41238924	NC_021160.1	Ca_kabuli_chr01	41238924	AA	CC	1946746405
SNP_P4_16379_41238925	NC_021160.1	Ca_kabuli_chr01	41238925	TT	AA	1946746407
SNP_P4_16380_41247455	NC_021160.1	Ca_kabuli_chr01	41247455	CC	TT	1946746409
SNP_P4_16381_41247461	NC_021160.1	Ca_kabuli_chr01	41247461	GG	AA	1946746411
SNP_P4_16383_41248492	NC_021160.1	Ca_kabuli_chr01	41248492	TT	CC	1946746413
SNP_P4_16384_41248505	NC_021160.1	Ca_kabuli_chr01	41248505	TT	GG	1946746415
SNP_P4_16385_41248535	NC_021160.1	Ca_kabuli_chr01	41248535	GG	TT	1946746417
SNP_P4_16386_41248542	NC_021160.1	Ca_kabuli_chr01	41248542	CC	AA	1946746419
SNP_P4_16387_41248554	NC_021160.1	Ca_kabuli_chr01	41248554	AA	TT	1946746421
SNP_P4_16388_41248745	NC_021160.1	Ca_kabuli_chr01	41248745	AA	GG	1946746423
SNP_P4_16389_41248832	NC_021160.1	Ca_kabuli_chr01	41248832	AA	TT	1946746425
SNP_P4_16390_41256347	NC_021160.1	Ca_kabuli_chr01	41256347	GG	AA	1946746427
SNP_P4_16391_41261051	NC_021160.1	Ca_kabuli_chr01	41261051	AA	TT	1946746429
SNP_P4_16392_41265799	NC_021160.1	Ca_kabuli_chr01	41265799	CC	TT	1946746431
SNP_P4_16393_41265808	NC_021160.1	Ca_kabuli_chr01	41265808	CC	TT	1946746433
SNP_P4_16394_41265817	NC_021160.1	Ca_kabuli_chr01	41265817	TT	GG	1946746435

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_16396_41265902	NC_021160.1	Ca_kabuli_chr01	41265902	AA	CC	1946746439
SNP_P4_16397_41266170	NC_021160.1	Ca_kabuli_chr01	41266170	TT	CC	1946746441
SNP_P4_16398_41266188	NC_021160.1	Ca_kabuli_chr01	41266188	CC	TT	1946746443
SNP_P4_16399_41266531	NC_021160.1	Ca_kabuli_chr01	41266531	AA	CC	1946746445
SNP_P4_16400_41266566	NC_021160.1	Ca_kabuli_chr01	41266566	AA	GG	1946746447
SNP_P4_16401_41266580	NC_021160.1	Ca_kabuli_chr01	41266580	GG	AA	1946746449
SNP_P4_16402_41266588	NC_021160.1	Ca_kabuli_chr01	41266588	CC	TT	1946746451
SNP_P4_16403_41267357	NC_021160.1	Ca_kabuli_chr01	41267357	GG	AA	1946746453
SNP_P4_16405_41277914	NC_021160.1	Ca_kabuli_chr01	41277914	CC	TT	1946746455
SNP_P4_16406_41277968	NC_021160.1	Ca_kabuli_chr01	41277968	CC	TT	1946746457
SNP_P4_16407_41320450	NC_021160.1	Ca_kabuli_chr01	41320450	AA	GG	1946746459
SNP_P4_16408_41320451	NC_021160.1	Ca_kabuli_chr01	41320451	AA	GG	1946746461
SNP_P4_16409_41320455	NC_021160.1	Ca_kabuli_chr01	41320455	TT	CC	1946746463
SNP_P4_16410_41320457	NC_021160.1	Ca_kabuli_chr01	41320457	AA	GG	1946746465
SNP_P4_16411_41320461	NC_021160.1	Ca_kabuli_chr01	41320461	AA	GG	1946746467
SNP_P4_16412_41320463	NC_021160.1	Ca_kabuli_chr01	41320463	TT	GG	1946746469
SNP_P4_16413_41320470	NC_021160.1	Ca_kabuli_chr01	41320470	AA	GG	1946746471
SNP_P4_16414_41320471	NC_021160.1	Ca_kabuli_chr01	41320471	CC	TT	1946746473
SNP_P4_16415_41329628	NC_021160.1	Ca_kabuli_chr01	41329628	TT	AA	1946746475
SNP_P4_16416_41329632	NC_021160.1	Ca_kabuli_chr01	41329632	TT	CC	1946746477
SNP_P4_16417_41348657	NC_021160.1	Ca_kabuli_chr01	41348657	TT	GG	1946746479
SNP_P4_16418_41362948	NC_021160.1	Ca_kabuli_chr01	41362948	AA	GG	1946746481
SNP_P4_16419_41363091	NC_021160.1	Ca_kabuli_chr01	41363091	TT	GG	1946746483
SNP_P4_16420_41378111	NC_021160.1	Ca_kabuli_chr01	41378111	TT	GG	1946746485
SNP_P4_16421_41378117	NC_021160.1	Ca_kabuli_chr01	41378117	AA	GG	1946746487
SNP_P4_16422_41380869	NC_021160.1	Ca_kabuli_chr01	41380869	CC	GG	1946746489
SNP_P4_16423_41406982	NC_021160.1	Ca_kabuli_chr01	41406982	TT	AA	1946746491
SNP_P4_16424_41412692	NC_021160.1	Ca_kabuli_chr01	41412692	CC	TT	1946746493
SNP_P4_16425_41416035	NC_021160.1	Ca_kabuli_chr01	41416035	AA	CC	1946746495
SNP_P4_16426_41416048	NC_021160.1	Ca_kabuli_chr01	41416048	TT	GG	1946746497
SNP_P4_16427_41416058	NC_021160.1	Ca_kabuli_chr01	41416058	CC	TT	1946746499
SNP_P4_16428_41416397	NC_021160.1	Ca_kabuli_chr01	41416397	CC	AA	1946746502
SNP_P4_16429_41416739	NC_021160.1	Ca_kabuli_chr01	41416739	AA	CC	1946746504
SNP_P4_16430_41422799	NC_021160.1	Ca_kabuli_chr01	41422799	TT	AA	1946746506
SNP_P4_16431_41429140	NC_021160.1	Ca_kabuli_chr01	41429140	TT	CC	1946746508
SNP_P4_16432_41450454	NC_021160.1	Ca_kabuli_chr01	41450454	TT	CC	1946746510
SNP_P4_16433_41450808	NC_021160.1	Ca_kabuli_chr01	41450808	GG	AA	1946746512
SNP_P4_16434_41450818	NC_021160.1	Ca_kabuli_chr01	41450818	CC	TT	1946746514
SNP_P4_16435_41450840	NC_021160.1	Ca_kabuli_chr01	41450840	TT	GG	1946746516
SNP_P4_16436_41451291	NC_021160.1	Ca_kabuli_chr01	41451291	AA	TT	1946746518
SNP_P4_16437_41451330	NC_021160.1	Ca_kabuli_chr01	41451330	CC	GG	1946746520

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_16439_41452590	NC_021160.1	Ca_kabuli_chr01	41452590	GG	TT	1946746524
SNP_P4_16440_41452618	NC_021160.1	Ca_kabuli_chr01	41452618	GG	AA	1946746526
SNP_P4_16441_41452636	NC_021160.1	Ca_kabuli_chr01	41452636	AA	GG	1946746528
SNP_P4_16442_41452788	NC_021160.1	Ca_kabuli_chr01	41452788	CC	AA	1946746530
SNP_P4_16443_41471888	NC_021160.1	Ca_kabuli_chr01	41471888	AA	TT	1946746532
SNP_P4_16444_41472079	NC_021160.1	Ca_kabuli_chr01	41472079	CC	GG	1946746534
SNP_P4_16445_41472126	NC_021160.1	Ca_kabuli_chr01	41472126	TT	CC	1946746536
SNP_P4_16446_41482530	NC_021160.1	Ca_kabuli_chr01	41482530	TT	CC	1946746538
SNP_P4_16449_41501685	NC_021160.1	Ca_kabuli_chr01	41501685	GG	AA	1946746540
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SNP_P4_16455_41536398	NC_021160.1	Ca_kabuli_chr01	41536398	GG	AA	1946746551
SNP_P4_16456_41556808	NC_021160.1	Ca_kabuli_chr01	41556808	AA	TT	1946746553
SNP_P4_16457_41597667	NC_021160.1	Ca_kabuli_chr01	41597667	TT	CC	1946746555
SNP_P4_16458_41617666	NC_021160.1	Ca_kabuli_chr01	41617666	GG	TT	1946746557
SNP_P4_16459_41631519	NC_021160.1	Ca_kabuli_chr01	41631519	GG	TT	1946746559
SNP_P4_16460_41643205	NC_021160.1	Ca_kabuli_chr01	41643205	TT	AA	1946746561
SNP_P4_16461_41648821	NC_021160.1	Ca_kabuli_chr01	41648821	GG	AA	1946746563
SNP_P4_16462_41657224	NC_021160.1	Ca_kabuli_chr01	41657224	TT	CC	1946746565
SNP_P4_16463_41661736	NC_021160.1	Ca_kabuli_chr01	41661736	TT	CC	1946746567
SNP_P4_16464_41694808	NC_021160.1	Ca_kabuli_chr01	41694808	TT	CC	1946746569
SNP_P4_16465_41694942	NC_021160.1	Ca_kabuli_chr01	41694942	GG	TT	1946746571
SNP_P4_16466_41694947	NC_021160.1	Ca_kabuli_chr01	41694947	GG	AA	1946746573
SNP_P4_16467_41694965	NC_021160.1	Ca_kabuli_chr01	41694965	AA	GG	1946746575
SNP_P4_16468_41694968	NC_021160.1	Ca_kabuli_chr01	41694968	CC	GG	1946746577
SNP_P4_16469_41694969	NC_021160.1	Ca_kabuli_chr01	41694969	CC	TT	1946746579
SNP_P4_16470_41694972	NC_021160.1	Ca_kabuli_chr01	41694972	CC	TT	1946746581
SNP_P4_16471_41694983	NC_021160.1	Ca_kabuli_chr01	41694983	AA	CC	1946746583
SNP_P4_16472_41694997	NC_021160.1	Ca_kabuli_chr01	41694997	CC	TT	1946746585
SNP_P4_16473_41695044	NC_021160.1	Ca_kabuli_chr01	41695044	GG	AA	1946746587
SNP_P4_16474_41695073	NC_021160.1	Ca_kabuli_chr01	41695073	TT	CC	1946746589
SNP_P4_16475_41695082	NC_021160.1	Ca_kabuli_chr01	41695082	CC	AA	1946746591
SNP_P4_16476_41695164	NC_021160.1	Ca_kabuli_chr01	41695164	TT	CC	1946746593
SNP_P4_16477_41695348	NC_021160.1	Ca_kabuli_chr01	41695348	AA	GG	1946746595
SNP_P4_16478_41695387	NC_021160.1	Ca_kabuli_chr01	41695387	GG	AA	1946746597
SNP_P4_16480_41695474	NC_021160.1	Ca_kabuli_chr01	41695474	TT	GG	1946746599
SNP_P4_16482_41695633	NC_021160.1	Ca_kabuli_chr01	41695633	GG	AA	1946746601
SNP_P4_16483_41695682	NC_021160.1	Ca_kabuli_chr01	41695682	TT	AA	1946746603
SNP_P4_16484_41695683	NC_021160.1	Ca_kabuli_chr01	41695683	TT	AA	1946746605

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_16485_41696756	NC_021160.1	Ca_kabuli_chr01	41696756	AA	GG	1946746606
SNP_P4_16486_41696759	NC_021160.1	Ca_kabuli_chr01	41696759	AA	CC	1946746608
SNP_P4_16487_41696840	NC_021160.1	Ca_kabuli_chr01	41696840	TT	CC	1946746610
SNP_P4_16488_41697054	NC_021160.1	Ca_kabuli_chr01	41697054	AA	CC	1946746612
SNP_P4_16489_41704174	NC_021160.1	Ca_kabuli_chr01	41704174	CC	AA	1946746614
SNP_P4_16490_41704221	NC_021160.1	Ca_kabuli_chr01	41704221	CC	TT	1946746617
SNP_P4_16491_41704268	NC_021160.1	Ca_kabuli_chr01	41704268	GG	AA	1946746619
SNP_P4_16492_41704316	NC_021160.1	Ca_kabuli_chr01	41704316	GG	AA	1946746621
SNP_P4_16493_41704385	NC_021160.1	Ca_kabuli_chr01	41704385	CC	AA	1946746623
SNP_P4_16494_41704411	NC_021160.1	Ca_kabuli_chr01	41704411	AA	GG	1946746625
SNP_P4_16497_41704531	NC_021160.1	Ca_kabuli_chr01	41704531	GG	AA	1946746627
SNP_P4_16498_41704540	NC_021160.1	Ca_kabuli_chr01	41704540	CC	TT	1946746629
SNP_P4_16499_41704553	NC_021160.1	Ca_kabuli_chr01	41704553	AA	TT	1946746631
SNP_P4_16500_41704603	NC_021160.1	Ca_kabuli_chr01	41704603	AA	TT	1946746633
SNP_P4_16501_41704624	NC_021160.1	Ca_kabuli_chr01	41704624	TT	AA	1946746635
SNP_P4_16502_41704633	NC_021160.1	Ca_kabuli_chr01	41704633	CC	TT	1946746637
SNP_P4_16503_41705113	NC_021160.1	Ca_kabuli_chr01	41705113	CC	TT	1946746639
SNP_P4_16504_41705237	NC_021160.1	Ca_kabuli_chr01	41705237	TT	GG	1946746641
SNP_P4_16505_41705392	NC_021160.1	Ca_kabuli_chr01	41705392	CC	TT	1946746643
SNP_P4_16506_41705523	NC_021160.1	Ca_kabuli_chr01	41705523	CC	GG	1946746645
SNP_P4_16507_41705604	NC_021160.1	Ca_kabuli_chr01	41705604	TT	AA	1946746647
SNP_P4_16509_41708419	NC_021160.1	Ca_kabuli_chr01	41708419	TT	GG	1946746649
SNP_P4_16510_41708444	NC_021160.1	Ca_kabuli_chr01	41708444	CC	AA	1946746651
SNP_P4_16511_41708687	NC_021160.1	Ca_kabuli_chr01	41708687	AA	CC	1946746653
SNP_P4_16512_41708796	NC_021160.1	Ca_kabuli_chr01	41708796	AA	GG	1946746655
SNP_P4_16513_41708828	NC_021160.1	Ca_kabuli_chr01	41708828	GG	AA	1946746657
SNP_P4_16514_41709483	NC_021160.1	Ca_kabuli_chr01	41709483	AA	TT	1946746659
SNP_P4_16516_41709597	NC_021160.1	Ca_kabuli_chr01	41709597	TT	CC	1946746661
SNP_P4_16517_41709855	NC_021160.1	Ca_kabuli_chr01	41709855	TT	GG	1946746662
SNP_P4_16518_41711804	NC_021160.1	Ca_kabuli_chr01	41711804	GG	AA	1946746663
SNP_P4_16519_41712203	NC_021160.1	Ca_kabuli_chr01	41712203	GG	AA	1946746664
SNP_P4_16520_41712688	NC_021160.1	Ca_kabuli_chr01	41712688	GG	AA	1946746666
SNP_P4_16521_41712745	NC_021160.1	Ca_kabuli_chr01	41712745	GG	TT	1946746668
SNP_P4_16522_41713111	NC_021160.1	Ca_kabuli_chr01	41713111	GG	TT	1946746670
SNP_P4_16523_41715008	NC_021160.1	Ca_kabuli_chr01	41715008	GG	TT	1946746671
SNP_P4_16524_41718481	NC_021160.1	Ca_kabuli_chr01	41718481	CC	TT	1946746673
SNP_P4_16525_41718491	NC_021160.1	Ca_kabuli_chr01	41718491	GG	AA	1946746675
SNP_P4_16526_41718540	NC_021160.1	Ca_kabuli_chr01	41718540	CC	TT	1946746677
SNP_P4_16527_41718546	NC_021160.1	Ca_kabuli_chr01	41718546	GG	AA	1946746679
SNP_P4_16528_41718553	NC_021160.1	Ca_kabuli_chr01	41718553	AA	GG	1946746681
SNP_P4_16529_41718598	NC_021160.1	Ca_kabuli_chr01	41718598	GG	AA	1946746683
SNP_P4_16530_41718619	NC_021160.1	Ca_kabuli_chr01	41718619	AA	TT	1946746685

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_16531_41718645	NC_021160.1	Ca_kabuli_chr01	41718645	GG	AA	1946746686
SNP_P4_16532_41718683	NC_021160.1	Ca_kabuli_chr01	41718683	CC	GG	1946746687
SNP_P4_16533_41718713	NC_021160.1	Ca_kabuli_chr01	41718713	CC	TT	1946746688
SNP_P4_16534_41718744	NC_021160.1	Ca_kabuli_chr01	41718744	CC	AA	1946746689
SNP_P4_16537_41721895	NC_021160.1	Ca_kabuli_chr01	41721895	AA	GG	1946746690
SNP_P4_16538_41721944	NC_021160.1	Ca_kabuli_chr01	41721944	TT	GG	1946746692
SNP_P4_16539_41721981	NC_021160.1	Ca_kabuli_chr01	41721981	GG	AA	1946746694
SNP_P4_16540_41722039	NC_021160.1	Ca_kabuli_chr01	41722039	TT	AA	1946746696
SNP_P4_16541_41722069	NC_021160.1	Ca_kabuli_chr01	41722069	GG	AA	1946746698
SNP_P4_16542_41722221	NC_021160.1	Ca_kabuli_chr01	41722221	GG	AA	1946746700
SNP_P4_16543_41722360	NC_021160.1	Ca_kabuli_chr01	41722360	TT	AA	1946746702
SNP_P4_16544_41722369	NC_021160.1	Ca_kabuli_chr01	41722369	AA	TT	1946746704
SNP_P4_16545_41722411	NC_021160.1	Ca_kabuli_chr01	41722411	TT	AA	1946746705
SNP_P4_16546_41723967	NC_021160.1	Ca_kabuli_chr01	41723967	TT	AA	1946746707
SNP_P4_16547_41724027	NC_021160.1	Ca_kabuli_chr01	41724027	TT	CC	1946746709
SNP_P4_16548_41727683	NC_021160.1	Ca_kabuli_chr01	41727683	TT	CC	1946746711
SNP_P4_16549_41727863	NC_021160.1	Ca_kabuli_chr01	41727863	GG	TT	1946746713
SNP_P4_16550_41727867	NC_021160.1	Ca_kabuli_chr01	41727867	TT	CC	1946746715
SNP_P4_16551_41730757	NC_021160.1	Ca_kabuli_chr01	41730757	CC	TT	1946746717
SNP_P4_16552_41732465	NC_021160.1	Ca_kabuli_chr01	41732465	CC	TT	1946746719
SNP_P4_16553_41743132	NC_021160.1	Ca_kabuli_chr01	41743132	AA	GG	1946746721
SNP_P4_16554_41746625	NC_021160.1	Ca_kabuli_chr01	41746625	AA	TT	1946746723
SNP_P4_16555_41746642	NC_021160.1	Ca_kabuli_chr01	41746642	AA	GG	1946746725
SNP_P4_16556_41746652	NC_021160.1	Ca_kabuli_chr01	41746652	GG	AA	1946746727
SNP_P4_16557_41746693	NC_021160.1	Ca_kabuli_chr01	41746693	TT	GG	1946746729
SNP_P4_16558_41746694	NC_021160.1	Ca_kabuli_chr01	41746694	GG	AA	1946746731
SNP_P4_16559_41747633	NC_021160.1	Ca_kabuli_chr01	41747633	TT	CC	1946746733
SNP_P4_16560_41748176	NC_021160.1	Ca_kabuli_chr01	41748176	AA	GG	1946746735
SNP_P4_16561_41748196	NC_021160.1	Ca_kabuli_chr01	41748196	CC	TT	1946746737
SNP_P4_16562_41773852	NC_021160.1	Ca_kabuli_chr01	41773852	AA	TT	1946746738
SNP_P4_16564_41777246	NC_021160.1	Ca_kabuli_chr01	41777246	CC	TT	1946746740
SNP_P4_16565_41801147	NC_021160.1	Ca_kabuli_chr01	41801147	AA	TT	1946746742
SNP_P4_16566_41801160	NC_021160.1	Ca_kabuli_chr01	41801160	GG	AA	1946746744
SNP_P4_16567_41801228	NC_021160.1	Ca_kabuli_chr01	41801228	CC	TT	1946746746
SNP_P4_16568_41801742	NC_021160.1	Ca_kabuli_chr01	41801742	AA	CC	1946746748
SNP_P4_16569_41807772	NC_021160.1	Ca_kabuli_chr01	41807772	AA	CC	1946746750
SNP_P4_16570_41808147	NC_021160.1	Ca_kabuli_chr01	41808147	TT	CC	1946746752
SNP_P4_16571_41812128	NC_021160.1	Ca_kabuli_chr01	41812128	CC	GG	1946746754
SNP_P4_16572_41839103	NC_021160.1	Ca_kabuli_chr01	41839103	AA	GG	1946746756
SNP_P4_16573_41841753	NC_021160.1	Ca_kabuli_chr01	41841753	AA	GG	1946746758
SNP_P4_16574_41846630	NC_021160.1	Ca_kabuli_chr01	41846630	AA	GG	1946746760
SNP_P4_16576_41886866	NC_021160.1	Ca_kabuli_chr01	41886866	CC	TT	1946746762

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_16578_41911220	NC_021160.1	Ca_kabuli_chr01	41911220	CC	AA	1946746766
SNP_P4_16580_41948711	NC_021160.1	Ca_kabuli_chr01	41948711	TT	CC	1946746768
SNP_P4_16582_41966934	NC_021160.1	Ca_kabuli_chr01	41966934	GG	TT	1946746770
SNP_P4_16584_42000276	NC_021160.1	Ca_kabuli_chr01	42000276	AA	GG	1946746772
SNP_P4_16585_42020497	NC_021160.1	Ca_kabuli_chr01	42020497	AA	GG	1946746774
SNP_P4_16586_42021427	NC_021160.1	Ca_kabuli_chr01	42021427	TT	AA	1946746776
SNP_P4_16587_42021437	NC_021160.1	Ca_kabuli_chr01	42021437	AA	TT	1946746778
SNP_P4_16588_42021460	NC_021160.1	Ca_kabuli_chr01	42021460	TT	CC	1946746780
SNP_P4_16589_42021684	NC_021160.1	Ca_kabuli_chr01	42021684	TT	AA	1946746782
SNP_P4_16590_42021707	NC_021160.1	Ca_kabuli_chr01	42021707	AA	TT	1946746784
SNP_P4_16593_42070754	NC_021160.1	Ca_kabuli_chr01	42070754	TT	AA	1946746786
SNP_P4_16594_42070770	NC_021160.1	Ca_kabuli_chr01	42070770	AA	GG	1946746788
SNP_P4_16595_42070871	NC_021160.1	Ca_kabuli_chr01	42070871	TT	CC	1946746790
SNP_P4_16596_42086632	NC_021160.1	Ca_kabuli_chr01	42086632	AA	TT	1946746792
SNP_P4_16597_42088984	NC_021160.1	Ca_kabuli_chr01	42088984	CC	AA	1946746794
SNP_P4_16598_42098222	NC_021160.1	Ca_kabuli_chr01	42098222	AA	TT	1946746796
SNP_P4_16599_42098268	NC_021160.1	Ca_kabuli_chr01	42098268	TT	GG	1946746798
SNP_P4_16600_42106638	NC_021160.1	Ca_kabuli_chr01	42106638	CC	TT	1946746800
SNP_P4_16601_42128046	NC_021160.1	Ca_kabuli_chr01	42128046	TT	CC	1946746801
SNP_P4_16602_42131872	NC_021160.1	Ca_kabuli_chr01	42131872	GG	AA	1946746803
SNP_P4_16603_42143771	NC_021160.1	Ca_kabuli_chr01	42143771	AA	TT	1946746805
SNP_P4_16604_42143780	NC_021160.1	Ca_kabuli_chr01	42143780	GG	AA	1946746807
SNP_P4_16605_42167104	NC_021160.1	Ca_kabuli_chr01	42167104	AA	GG	1946746809
SNP_P4_16606_42167548	NC_021160.1	Ca_kabuli_chr01	42167548	TT	CC	1946746812
SNP_P4_16607_42168070	NC_021160.1	Ca_kabuli_chr01	42168070	CC	AA	1946746814
SNP_P4_16608_42168110	NC_021160.1	Ca_kabuli_chr01	42168110	CC	TT	1946746816
SNP_P4_16610_42172265	NC_021160.1	Ca_kabuli_chr01	42172265	AA	GG	1946746819
SNP_P4_16611_42172333	NC_021160.1	Ca_kabuli_chr01	42172333	AA	GG	1946746821
SNP_P4_16612_42172679	NC_021160.1	Ca_kabuli_chr01	42172679	AA	CC	1946746823
SNP_P4_16613_42179676	NC_021160.1	Ca_kabuli_chr01	42179676	AA	CC	1946746825
SNP_P4_16617_42209321	NC_021160.1	Ca_kabuli_chr01	42209321	TT	AA	1946746827
SNP_P4_16618_42230388	NC_021160.1	Ca_kabuli_chr01	42230388	GG	AA	1946746829
SNP_P4_16619_42238448	NC_021160.1	Ca_kabuli_chr01	42238448	TT	CC	1946746831
SNP_P4_16620_42239519	NC_021160.1	Ca_kabuli_chr01	42239519	AA	GG	1946746833
SNP_P4_16621_42243850	NC_021160.1	Ca_kabuli_chr01	42243850	GG	AA	1946746835
SNP_P4_16622_42243877	NC_021160.1	Ca_kabuli_chr01	42243877	GG	TT	1946746837
SNP_P4_16623_42244193	NC_021160.1	Ca_kabuli_chr01	42244193	TT	CC	1946746839
SNP_P4_16624_42244244	NC_021160.1	Ca_kabuli_chr01	42244244	CC	TT	1946746841
SNP_P4_16625_42244275	NC_021160.1	Ca_kabuli_chr01	42244275	TT	GG	1946746843
SNP_P4_16626_42244312	NC_021160.1	Ca_kabuli_chr01	42244312	TT	AA	1946746845
SNP_P4_16627_42244339	NC_021160.1	Ca_kabuli_chr01	42244339	TT	CC	1946746847

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_16629_42244358	NC_021160.1	Ca_kabuli_chr01	42244358	AA	TT	1946746850
SNP_P4_16630_42261575	NC_021160.1	Ca_kabuli_chr01	42261575	GG	AA	1946746852
SNP_P4_16631_42266227	NC_021160.1	Ca_kabuli_chr01	42266227	TT	AA	1946746854
SNP_P4_16632_42266228	NC_021160.1	Ca_kabuli_chr01	42266228	TT	AA	1946746856
SNP_P4_16633_42267581	NC_021160.1	Ca_kabuli_chr01	42267581	CC	TT	1946746858
SNP_P4_16634_42275645	NC_021160.1	Ca_kabuli_chr01	42275645	CC	AA	1946746860
SNP_P4_16635_42287095	NC_021160.1	Ca_kabuli_chr01	42287095	CC	TT	1946746862
SNP_P4_16636_42312884	NC_021160.1	Ca_kabuli_chr01	42312884	GG	AA	1946746864
SNP_P4_16637_42329013	NC_021160.1	Ca_kabuli_chr01	42329013	AA	GG	1946746866
SNP_P4_16638_42329317	NC_021160.1	Ca_kabuli_chr01	42329317	CC	TT	1946746868
SNP_P4_16639_42329389	NC_021160.1	Ca_kabuli_chr01	42329389	CC	TT	1946746870
SNP_P4_16640_42332483	NC_021160.1	Ca_kabuli_chr01	42332483	TT	AA	1946746872
SNP_P4_16641_42338680	NC_021160.1	Ca_kabuli_chr01	42338680	GG	AA	1946746874
SNP_P4_16642_42350962	NC_021160.1	Ca_kabuli_chr01	42350962	GG	TT	1946746876
SNP_P4_16643_42379521	NC_021160.1	Ca_kabuli_chr01	42379521	AA	CC	1946746878
SNP_P4_16645_42392320	NC_021160.1	Ca_kabuli_chr01	42392320	CC	TT	1946746880
SNP_P4_16646_42405110	NC_021160.1	Ca_kabuli_chr01	42405110	GG	AA	1946746882
SNP_P4_16647_42405120	NC_021160.1	Ca_kabuli_chr01	42405120	GG	AA	1946746884
SNP_P4_16648_42405145	NC_021160.1	Ca_kabuli_chr01	42405145	TT	AA	1946746886
SNP_P4_16649_42405170	NC_021160.1	Ca_kabuli_chr01	42405170	GG	CC	1946746888
SNP_P4_16650_42405362	NC_021160.1	Ca_kabuli_chr01	42405362	GG	AA	1946746890
SNP_P4_16651_42405386	NC_021160.1	Ca_kabuli_chr01	42405386	TT	CC	1946746892
SNP_P4_16652_42410735	NC_021160.1	Ca_kabuli_chr01	42410735	GG	AA	1946746894
SNP_P4_16653_42410738	NC_021160.1	Ca_kabuli_chr01	42410738	TT	CC	1946746896
SNP_P4_16654_42410780	NC_021160.1	Ca_kabuli_chr01	42410780	TT	CC	1946746898
SNP_P4_16655_42411108	NC_021160.1	Ca_kabuli_chr01	42411108	AA	CC	1946746900
SNP_P4_16656_42411139	NC_021160.1	Ca_kabuli_chr01	42411139	AA	GG	1946746902
SNP_P4_16657_42411174	NC_021160.1	Ca_kabuli_chr01	42411174	GG	AA	1946746904
SNP_P4_16658_42411186	NC_021160.1	Ca_kabuli_chr01	42411186	AA	CC	1946746906
SNP_P4_16659_42411215	NC_021160.1	Ca_kabuli_chr01	42411215	AA	CC	1946746908
SNP_P4_16660_42411235	NC_021160.1	Ca_kabuli_chr01	42411235	AA	CC	1946746910
SNP_P4_16661_42416687	NC_021160.1	Ca_kabuli_chr01	42416687	GG	AA	1946746912
SNP_P4_16662_42416697	NC_021160.1	Ca_kabuli_chr01	42416697	CC	AA	1946746914
SNP_P4_16663_42416778	NC_021160.1	Ca_kabuli_chr01	42416778	CC	TT	1946746916
SNP_P4_16664_42476015	NC_021160.1	Ca_kabuli_chr01	42476015	AA	GG	1946746918
SNP_P4_16666_42499537	NC_021160.1	Ca_kabuli_chr01	42499537	TT	CC	1946746920
SNP_P4_16667_42530415	NC_021160.1	Ca_kabuli_chr01	42530415	TT	CC	1946746922
SNP_P4_16668_42538838	NC_021160.1	Ca_kabuli_chr01	42538838	CC	TT	1946746924
SNP_P4_16669_42538849	NC_021160.1	Ca_kabuli_chr01	42538849	GG	TT	1946746926
SNP_P4_16670_42538911	NC_021160.1	Ca_kabuli_chr01	42538911	TT	AA	1946746928
SNP_P4_16671_42538976	NC_021160.1	Ca_kabuli_chr01	42538976	TT	AA	1946746930

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_16673_42539358	NC_021160.1	Ca_kabuli_chr01	42539358	TT	CC	1946746934
SNP_P4_16674_42540218	NC_021160.1	Ca_kabuli_chr01	42540218	AA	GG	1946746936
SNP_P4_16675_42540751	NC_021160.1	Ca_kabuli_chr01	42540751	AA	TT	1946746937
SNP_P4_16676_42540810	NC_021160.1	Ca_kabuli_chr01	42540810	AA	TT	1946746939
SNP_P4_16678_42550527	NC_021160.1	Ca_kabuli_chr01	42550527	AA	GG	1946746941
SNP_P4_16679_42550865	NC_021160.1	Ca_kabuli_chr01	42550865	CC	TT	1946746943
SNP_P4_16680_42550866	NC_021160.1	Ca_kabuli_chr01	42550866	TT	CC	1946746945
SNP_P4_16681_42550890	NC_021160.1	Ca_kabuli_chr01	42550890	TT	CC	1946746947
SNP_P4_16682_42556424	NC_021160.1	Ca_kabuli_chr01	42556424	AA	GG	1946746949
SNP_P4_16683_42556427	NC_021160.1	Ca_kabuli_chr01	42556427	CC	TT	1946746951
SNP_P4_16684_42556432	NC_021160.1	Ca_kabuli_chr01	42556432	GG	AA	1946746953
SNP_P4_16685_42635991	NC_021160.1	Ca_kabuli_chr01	42635991	TT	CC	1946746955
SNP_P4_16686_42636001	NC_021160.1	Ca_kabuli_chr01	42636001	CC	AA	1946746957
SNP_P4_16687_42636014	NC_021160.1	Ca_kabuli_chr01	42636014	CC	TT	1946746959
SNP_P4_16688_42636016	NC_021160.1	Ca_kabuli_chr01	42636016	GG	CC	1946746961
SNP_P4_16689_42636017	NC_021160.1	Ca_kabuli_chr01	42636017	TT	AA	1946746963
SNP_P4_16690_42636021	NC_021160.1	Ca_kabuli_chr01	42636021	TT	AA	1946746965
SNP_P4_16691_42636023	NC_021160.1	Ca_kabuli_chr01	42636023	GG	AA	1946746967
SNP_P4_16692_42641920	NC_021160.1	Ca_kabuli_chr01	42641920	GG	AA	1946746969
SNP_P4_16693_42641993	NC_021160.1	Ca_kabuli_chr01	42641993	CC	TT	1946746971
SNP_P4_16694_42642993	NC_021160.1	Ca_kabuli_chr01	42642993	AA	CC	1946746973
SNP_P4_16695_42643001	NC_021160.1	Ca_kabuli_chr01	42643001	AA	TT	1946746975
SNP_P4_16696_42643002	NC_021160.1	Ca_kabuli_chr01	42643002	GG	TT	1946746977
SNP_P4_16697_42643006	NC_021160.1	Ca_kabuli_chr01	42643006	AA	TT	1946746979
SNP_P4_16698_42643008	NC_021160.1	Ca_kabuli_chr01	42643008	TT	CC	1946746981
SNP_P4_16700_42692051	NC_021160.1	Ca_kabuli_chr01	42692051	GG	AA	1946746983
SNP_P4_16701_42721203	NC_021160.1	Ca_kabuli_chr01	42721203	AA	GG	1946746984
SNP_P4_16702_42740312	NC_021160.1	Ca_kabuli_chr01	42740312	TT	CC	1946746986
SNP_P4_16704_42749171	NC_021160.1	Ca_kabuli_chr01	42749171	GG	AA	1946746988
SNP_P4_16705_42762681	NC_021160.1	Ca_kabuli_chr01	42762681	CC	GG	1946746990
SNP_P4_16707_42791603	NC_021160.1	Ca_kabuli_chr01	42791603	GG	AA	1946746992
SNP_P4_16708_42793548	NC_021160.1	Ca_kabuli_chr01	42793548	TT	CC	1946746994
SNP_P4_16709_42793576	NC_021160.1	Ca_kabuli_chr01	42793576	TT	CC	1946746997
SNP_P4_16710_42793937	NC_021160.1	Ca_kabuli_chr01	42793937	TT	CC	1946746999
SNP_P4_16711_42800189	NC_021160.1	Ca_kabuli_chr01	42800189	GG	AA	1946747001
SNP_P4_16712_42813640	NC_021160.1	Ca_kabuli_chr01	42813640	CC	GG	1946747004
SNP_P4_16713_42820362	NC_021160.1	Ca_kabuli_chr01	42820362	AA	GG	1946747006
SNP_P4_16714_42820380	NC_021160.1	Ca_kabuli_chr01	42820380	AA	GG	1946747008
SNP_P4_16715_42820544	NC_021160.1	Ca_kabuli_chr01	42820544	GG	AA	1946747010
SNP_P4_16716_42820568	NC_021160.1	Ca_kabuli_chr01	42820568	GG	AA	1946747012
SNP_P4_16718_42862910	NC_021160.1	Ca_kabuli_chr01	42862910	AA	GG	1946747014

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_16720_42890446	NC_021160.1	Ca_kabuli_chr01	42890446	CC	TT	1946747018
SNP_P4_16722_42902926	NC_021160.1	Ca_kabuli_chr01	42902926	TT	CC	1946747020
SNP_P4_16723_42903314	NC_021160.1	Ca_kabuli_chr01	42903314	AA	GG	1946747022
SNP_P4_16724_42928211	NC_021160.1	Ca_kabuli_chr01	42928211	AA	TT	1946747024
SNP_P4_16725_42970533	NC_021160.1	Ca_kabuli_chr01	42970533	AA	GG	1946747025
SNP_P4_16726_42972243	NC_021160.1	Ca_kabuli_chr01	42972243	GG	AA	1946747027
SNP_P4_16727_42980037	NC_021160.1	Ca_kabuli_chr01	42980037	GG	CC	1946747029
SNP_P4_16728_42980354	NC_021160.1	Ca_kabuli_chr01	42980354	AA	GG	1946747031
SNP_P4_16729_42980361	NC_021160.1	Ca_kabuli_chr01	42980361	CC	TT	1946747033
SNP_P4_16730_42980689	NC_021160.1	Ca_kabuli_chr01	42980689	GG	AA	1946747035
SNP_P4_16731_42980692	NC_021160.1	Ca_kabuli_chr01	42980692	CC	GG	1946747037
SNP_P4_16732_42980750	NC_021160.1	Ca_kabuli_chr01	42980750	CC	TT	1946747039
SNP_P4_16733_42991324	NC_021160.1	Ca_kabuli_chr01	42991324	TT	CC	1946747041
SNP_P4_16734_42991670	NC_021160.1	Ca_kabuli_chr01	42991670	GG	AA	1946747043
SNP_P4_16735_43000939	NC_021160.1	Ca_kabuli_chr01	43000939	TT	AA	1946747044
SNP_P4_16736_43001336	NC_021160.1	Ca_kabuli_chr01	43001336	AA	GG	1946747046
SNP_P4_16737_43001762	NC_021160.1	Ca_kabuli_chr01	43001762	GG	AA	1946747048
SNP_P4_16738_43001798	NC_021160.1	Ca_kabuli_chr01	43001798	CC	GG	1946747050
SNP_P4_16739_43039675	NC_021160.1	Ca_kabuli_chr01	43039675	GG	AA	1946747053
SNP_P4_16740_43061966	NC_021160.1	Ca_kabuli_chr01	43061966	TT	GG	1946747055
SNP_P4_16741_43062022	NC_021160.1	Ca_kabuli_chr01	43062022	AA	GG	1946747057
SNP_P4_16742_43062023	NC_021160.1	Ca_kabuli_chr01	43062023	TT	CC	1946747060
SNP_P4_16743_43062026	NC_021160.1	Ca_kabuli_chr01	43062026	TT	CC	1946747062
SNP_P4_16744_43064524	NC_021160.1	Ca_kabuli_chr01	43064524	TT	CC	1946747064
SNP_P4_16745_43065715	NC_021160.1	Ca_kabuli_chr01	43065715	GG	AA	1946747066
SNP_P4_16746_43065724	NC_021160.1	Ca_kabuli_chr01	43065724	CC	GG	1946747068
SNP_P4_16747_43065746	NC_021160.1	Ca_kabuli_chr01	43065746	AA	GG	1946747070
SNP_P4_16748_43065779	NC_021160.1	Ca_kabuli_chr01	43065779	AA	GG	1946747072
SNP_P4_16749_43065792	NC_021160.1	Ca_kabuli_chr01	43065792	GG	CC	1946747074
SNP_P4_16750_43065818	NC_021160.1	Ca_kabuli_chr01	43065818	AA	TT	1946747076
SNP_P4_16751_43066089	NC_021160.1	Ca_kabuli_chr01	43066089	CC	TT	1946747078
SNP_P4_16752_43066111	NC_021160.1	Ca_kabuli_chr01	43066111	AA	GG	1946747080
SNP_P4_16753_43066179	NC_021160.1	Ca_kabuli_chr01	43066179	TT	GG	1946747082
SNP_P4_16754_43066267	NC_021160.1	Ca_kabuli_chr01	43066267	TT	CC	1946747084
SNP_P4_16755_43066277	NC_021160.1	Ca_kabuli_chr01	43066277	AA	CC	1946747086
SNP_P4_16756_43066300	NC_021160.1	Ca_kabuli_chr01	43066300	AA	GG	1946747088
SNP_P4_16757_43067074	NC_021160.1	Ca_kabuli_chr01	43067074	AA	GG	1946747089
SNP_P4_16758_43067102	NC_021160.1	Ca_kabuli_chr01	43067102	TT	CC	1946747092
SNP_P4_16759_43090845	NC_021160.1	Ca_kabuli_chr01	43090845	AA	GG	1946747094
SNP_P4_16760_43118875	NC_021160.1	Ca_kabuli_chr01	43118875	AA	TT	1946747096
SNP_P4_16761_43119804	NC_021160.1	Ca_kabuli_chr01	43119804	GG	AA	1946747097

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_16763_43177331	NC_021160.1	Ca_kabuli_chr01	43177331	GG	AA	1946747101
SNP_P4_16764_43225898	NC_021160.1	Ca_kabuli_chr01	43225898	CC	TT	1946747103
SNP_P4_16765_43235814	NC_021160.1	Ca_kabuli_chr01	43235814	TT	CC	1946747105
SNP_P4_16766_43254128	NC_021160.1	Ca_kabuli_chr01	43254128	GG	TT	1946747107
SNP_P4_16767_43262297	NC_021160.1	Ca_kabuli_chr01	43262297	GG	AA	1946747109
SNP_P4_16768_43262307	NC_021160.1	Ca_kabuli_chr01	43262307	GG	AA	1946747111
SNP_P4_16769_43262329	NC_021160.1	Ca_kabuli_chr01	43262329	CC	TT	1946747113
SNP_P4_16770_43262330	NC_021160.1	Ca_kabuli_chr01	43262330	TT	CC	1946747115
SNP_P4_16771_43300400	NC_021160.1	Ca_kabuli_chr01	43300400	TT	GG	1946747116
SNP_P4_16772_43313491	NC_021160.1	Ca_kabuli_chr01	43313491	CC	TT	1946747118
SNP_P4_16773_43330847	NC_021160.1	Ca_kabuli_chr01	43330847	CC	TT	1946747120
SNP_P4_16774_43336066	NC_021160.1	Ca_kabuli_chr01	43336066	TT	CC	1946747122
SNP_P4_16775_43363004	NC_021160.1	Ca_kabuli_chr01	43363004	TT	GG	1946747124
SNP_P4_16776_43363023	NC_021160.1	Ca_kabuli_chr01	43363023	AA	GG	1946747126
SNP_P4_16777_43363024	NC_021160.1	Ca_kabuli_chr01	43363024	TT	GG	1946747128
SNP_P4_16778_43363034	NC_021160.1	Ca_kabuli_chr01	43363034	AA	GG	1946747130
SNP_P4_16779_43363060	NC_021160.1	Ca_kabuli_chr01	43363060	CC	GG	1946747132
SNP_P4_16780_43363068	NC_021160.1	Ca_kabuli_chr01	43363068	AA	GG	1946747133
SNP_P4_16781_43363478	NC_021160.1	Ca_kabuli_chr01	43363478	GG	AA	1946747135
SNP_P4_16782_43393150	NC_021160.1	Ca_kabuli_chr01	43393150	CC	AA	1946747137
SNP_P4_16783_43406848	NC_021160.1	Ca_kabuli_chr01	43406848	AA	TT	1946747139
SNP_P4_16784_43411748	NC_021160.1	Ca_kabuli_chr01	43411748	GG	AA	1946747141
SNP_P4_16785_43411749	NC_021160.1	Ca_kabuli_chr01	43411749	CC	TT	1946747143
SNP_P4_16786_43411762	NC_021160.1	Ca_kabuli_chr01	43411762	AA	GG	1946747145
SNP_P4_16787_43412908	NC_021160.1	Ca_kabuli_chr01	43412908	GG	AA	1946747147
SNP_P4_16788_43420328	NC_021160.1	Ca_kabuli_chr01	43420328	AA	GG	1946747150
SNP_P4_16790_43438473	NC_021160.1	Ca_kabuli_chr01	43438473	TT	AA	1946747152
SNP_P4_16791_43438629	NC_021160.1	Ca_kabuli_chr01	43438629	TT	CC	1946747154
SNP_P4_16792_43438652	NC_021160.1	Ca_kabuli_chr01	43438652	TT	CC	1946747156
SNP_P4_16793_43439373	NC_021160.1	Ca_kabuli_chr01	43439373	CC	GG	1946747158
SNP_P4_16794_43439816	NC_021160.1	Ca_kabuli_chr01	43439816	AA	GG	1946747160
SNP_P4_16795_43440899	NC_021160.1	Ca_kabuli_chr01	43440899	GG	AA	1946747162
SNP_P4_16796_43441144	NC_021160.1	Ca_kabuli_chr01	43441144	TT	CC	1946747164
SNP_P4_16797_43441240	NC_021160.1	Ca_kabuli_chr01	43441240	AA	GG	1946747166
SNP_P4_16798_43441260	NC_021160.1	Ca_kabuli_chr01	43441260	AA	GG	1946747168
SNP_P4_16799_43441496	NC_021160.1	Ca_kabuli_chr01	43441496	TT	CC	1946747170
SNP_P4_16800_43441530	NC_021160.1	Ca_kabuli_chr01	43441530	GG	AA	1946747172
SNP_P4_16801_43441553	NC_021160.1	Ca_kabuli_chr01	43441553	TT	GG	1946747174
SNP_P4_16802_43451961	NC_021160.1	Ca_kabuli_chr01	43451961	GG	AA	1946747176
SNP_P4_16804_43467883	NC_021160.1	Ca_kabuli_chr01	43467883	GG	AA	1946747178
SNP_P4_16805_43467957	NC_021160.1	Ca_kabuli_chr01	43467957	GG	AA	1946747180

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_16807_43476901	NC_021160.1	Ca_kabuli_chr01	43476901	GG	CC	1946747184
SNP_P4_16808_43476913	NC_021160.1	Ca_kabuli_chr01	43476913	GG	AA	1946747186
SNP_P4_16809_43493313	NC_021160.1	Ca_kabuli_chr01	43493313	GG	TT	1946747188
SNP_P4_16810_43517104	NC_021160.1	Ca_kabuli_chr01	43517104	AA	CC	1946747190
SNP_P4_16813_43567785	NC_021160.1	Ca_kabuli_chr01	43567785	TT	GG	1946747192
SNP_P4_16814_43569097	NC_021160.1	Ca_kabuli_chr01	43569097	CC	AA	1946747194
SNP_P4_16815_43577928	NC_021160.1	Ca_kabuli_chr01	43577928	TT	GG	1946747196
SNP_P4_16816_43578203	NC_021160.1	Ca_kabuli_chr01	43578203	CC	TT	1946747198
SNP_P4_16817_43581502	NC_021160.1	Ca_kabuli_chr01	43581502	AA	GG	1946747200
SNP_P4_16819_43612864	NC_021160.1	Ca_kabuli_chr01	43612864	AA	GG	1946747202
SNP_P4_16820_43618073	NC_021160.1	Ca_kabuli_chr01	43618073	CC	GG	1946747204
SNP_P4_16821_43622508	NC_021160.1	Ca_kabuli_chr01	43622508	AA	GG	1946747206
SNP_P4_16822_43635450	NC_021160.1	Ca_kabuli_chr01	43635450	AA	CC	1946747208
SNP_P4_16823_43640656	NC_021160.1	Ca_kabuli_chr01	43640656	GG	AA	1946747210
SNP_P4_16825_43665022	NC_021160.1	Ca_kabuli_chr01	43665022	GG	TT	1946747212
SNP_P4_16828_43688843	NC_021160.1	Ca_kabuli_chr01	43688843	CC	TT	1946747214
SNP_P4_16830_43690265	NC_021160.1	Ca_kabuli_chr01	43690265	CC	TT	1946747216
SNP_P4_16831_43690272	NC_021160.1	Ca_kabuli_chr01	43690272	CC	TT	1946747218
SNP_P4_16832_43690281	NC_021160.1	Ca_kabuli_chr01	43690281	AA	TT	1946747220
SNP_P4_16833_43690322	NC_021160.1	Ca_kabuli_chr01	43690322	TT	CC	1946747222
SNP_P4_16834_43690339	NC_021160.1	Ca_kabuli_chr01	43690339	AA	TT	1946747224
SNP_P4_16835_43691303	NC_021160.1	Ca_kabuli_chr01	43691303	CC	GG	1946747226
SNP_P4_16836_43715282	NC_021160.1	Ca_kabuli_chr01	43715282	CC	TT	1946747228
SNP_P4_16837_43722807	NC_021160.1	Ca_kabuli_chr01	43722807	TT	GG	1946747230
SNP_P4_16838_43727527	NC_021160.1	Ca_kabuli_chr01	43727527	CC	TT	1946747232
SNP_P4_16839_43792565	NC_021160.1	Ca_kabuli_chr01	43792565	GG	AA	1946747234
SNP_P4_16840_43816349	NC_021160.1	Ca_kabuli_chr01	43816349	GG	AA	1946747236
SNP_P4_16841_43830031	NC_021160.1	Ca_kabuli_chr01	43830031	GG	AA	1946747237
SNP_P4_16842_43896328	NC_021160.1	Ca_kabuli_chr01	43896328	TT	CC	1946747239
SNP_P4_16843_43896329	NC_021160.1	Ca_kabuli_chr01	43896329	AA	GG	1946747241
SNP_P4_16844_43899281	NC_021160.1	Ca_kabuli_chr01	43899281	TT	CC	1946747243
SNP_P4_16845_43903801	NC_021160.1	Ca_kabuli_chr01	43903801	CC	TT	1946747245
SNP_P4_16846_43903927	NC_021160.1	Ca_kabuli_chr01	43903927	TT	CC	1946747247
SNP_P4_16847_43904038	NC_021160.1	Ca_kabuli_chr01	43904038	TT	CC	1946747249
SNP_P4_16848_43904039	NC_021160.1	Ca_kabuli_chr01	43904039	CC	TT	1946747251
SNP_P4_16849_43904040	NC_021160.1	Ca_kabuli_chr01	43904040	GG	AA	1946747253
SNP_P4_16850_43904042	NC_021160.1	Ca_kabuli_chr01	43904042	CC	TT	1946747255
SNP_P4_16851_43904044	NC_021160.1	Ca_kabuli_chr01	43904044	CC	TT	1946747257
SNP_P4_16853_43932871	NC_021160.1	Ca_kabuli_chr01	43932871	TT	CC	1946747258
SNP_P4_16854_43942441	NC_021160.1	Ca_kabuli_chr01	43942441	TT	GG	1946747260
SNP_P4_16855_43946422	NC_021160.1	Ca_kabuli_chr01	43946422	CC	TT	1946747262

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_16857_43980312	NC_021160.1	Ca_kabuli_chr01	43980312	CC	TT	1946747266
SNP_P4_16858_43980566	NC_021160.1	Ca_kabuli_chr01	43980566	CC	TT	1946747268
SNP_P4_16860_44022160	NC_021160.1	Ca_kabuli_chr01	44022160	CC	TT	1946747270
SNP_P4_16861_44051233	NC_021160.1	Ca_kabuli_chr01	44051233	TT	GG	1946747272
SNP_P4_16862_44051253	NC_021160.1	Ca_kabuli_chr01	44051253	CC	TT	1946747274
SNP_P4_16863_44051574	NC_021160.1	Ca_kabuli_chr01	44051574	AA	GG	1946747276
SNP_P4_16864_44079661	NC_021160.1	Ca_kabuli_chr01	44079661	GG	TT	1946747278
SNP_P4_16865_44104709	NC_021160.1	Ca_kabuli_chr01	44104709	CC	AA	1946747280
SNP_P4_16866_44126995	NC_021160.1	Ca_kabuli_chr01	44126995	CC	GG	1946747282
SNP_P4_16867_44129114	NC_021160.1	Ca_kabuli_chr01	44129114	CC	TT	1946747284
SNP_P4_16868_44129397	NC_021160.1	Ca_kabuli_chr01	44129397	AA	GG	1946747286
SNP_P4_16869_44144751	NC_021160.1	Ca_kabuli_chr01	44144751	CC	TT	1946747288
SNP_P4_16870_44146237	NC_021160.1	Ca_kabuli_chr01	44146237	GG	TT	1946747290
SNP_P4_16871_44150305	NC_021160.1	Ca_kabuli_chr01	44150305	GG	AA	1946747292
SNP_P4_16872_44153387	NC_021160.1	Ca_kabuli_chr01	44153387	TT	GG	1946747294
SNP_P4_16873_44155775	NC_021160.1	Ca_kabuli_chr01	44155775	GG	AA	1946747296
SNP_P4_16874_44162358	NC_021160.1	Ca_kabuli_chr01	44162358	TT	CC	1946747298
SNP_P4_16875_44175182	NC_021160.1	Ca_kabuli_chr01	44175182	TT	AA	1946747300
SNP_P4_16876_44175193	NC_021160.1	Ca_kabuli_chr01	44175193	TT	CC	1946747302
SNP_P4_16877_44175210	NC_021160.1	Ca_kabuli_chr01	44175210	TT	CC	1946747304
SNP_P4_16878_44175639	NC_021160.1	Ca_kabuli_chr01	44175639	AA	CC	1946747306
SNP_P4_16879_44186093	NC_021160.1	Ca_kabuli_chr01	44186093	TT	AA	1946747308
SNP_P4_16880_44186240	NC_021160.1	Ca_kabuli_chr01	44186240	GG	AA	1946747310
SNP_P4_16881_44186263	NC_021160.1	Ca_kabuli_chr01	44186263	GG	AA	1946747312
SNP_P4_16882_44187293	NC_021160.1	Ca_kabuli_chr01	44187293	CC	AA	1946747314
SNP_P4_16883_44187380	NC_021160.1	Ca_kabuli_chr01	44187380	CC	TT	1946747316
SNP_P4_16884_44187546	NC_021160.1	Ca_kabuli_chr01	44187546	TT	CC	1946747318
SNP_P4_16885_44187597	NC_021160.1	Ca_kabuli_chr01	44187597	CC	AA	1946747320
SNP_P4_16886_44187611	NC_021160.1	Ca_kabuli_chr01	44187611	GG	TT	1946747322
SNP_P4_16887_44194348	NC_021160.1	Ca_kabuli_chr01	44194348	AA	GG	1946747324
SNP_P4_16888_44204372	NC_021160.1	Ca_kabuli_chr01	44204372	TT	CC	1946747326
SNP_P4_16889_44205988	NC_021160.1	Ca_kabuli_chr01	44205988	CC	TT	1946747329
SNP_P4_16890_44206007	NC_021160.1	Ca_kabuli_chr01	44206007	AA	TT	1946747331
SNP_P4_16891_44206019	NC_021160.1	Ca_kabuli_chr01	44206019	AA	TT	1946747333
SNP_P4_16892_44206965	NC_021160.1	Ca_kabuli_chr01	44206965	AA	GG	1946747335
SNP_P4_16893_44207345	NC_021160.1	Ca_kabuli_chr01	44207345	AA	TT	1946747337
SNP_P4_16894_44207376	NC_021160.1	Ca_kabuli_chr01	44207376	AA	GG	1946747339
SNP_P4_16895_44207570	NC_021160.1	Ca_kabuli_chr01	44207570	CC	TT	1946747341
SNP_P4_16896_44209060	NC_021160.1	Ca_kabuli_chr01	44209060	GG	TT	1946747343
SNP_P4_16897_44209121	NC_021160.1	Ca_kabuli_chr01	44209121	AA	GG	1946747345
SNP_P4_16898_44209494	NC_021160.1	Ca_kabuli_chr01	44209494	GG	CC	1946747347

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_16902_44295552	NC_021160.1	Ca_kabuli_chr01	44295552	GG	CC	1946747351
SNP_P4_16903_44299925	NC_021160.1	Ca_kabuli_chr01	44299925	GG	CC	1946747353
SNP_P4_16904_44300153	NC_021160.1	Ca_kabuli_chr01	44300153	AA	CC	1946747355
SNP_P4_16905_44300198	NC_021160.1	Ca_kabuli_chr01	44300198	GG	CC	1946747357
SNP_P4_16907_44369615	NC_021160.1	Ca_kabuli_chr01	44369615	TT	CC	1946747359
SNP_P4_16908_44374687	NC_021160.1	Ca_kabuli_chr01	44374687	TT	CC	1946747361
SNP_P4_16909_44374697	NC_021160.1	Ca_kabuli_chr01	44374697	TT	AA	1946747363
SNP_P4_16910_44376340	NC_021160.1	Ca_kabuli_chr01	44376340	CC	GG	1946747365
SNP_P4_16911_44376356	NC_021160.1	Ca_kabuli_chr01	44376356	AA	GG	1946747367
SNP_P4_16912_44376380	NC_021160.1	Ca_kabuli_chr01	44376380	GG	AA	1946747369
SNP_P4_16913_44376383	NC_021160.1	Ca_kabuli_chr01	44376383	AA	GG	1946747371
SNP_P4_16914_44376397	NC_021160.1	Ca_kabuli_chr01	44376397	AA	TT	1946747373
SNP_P4_16915_44376431	NC_021160.1	Ca_kabuli_chr01	44376431	AA	CC	1946747375
SNP_P4_16916_44376461	NC_021160.1	Ca_kabuli_chr01	44376461	TT	CC	1946747377
SNP_P4_16917_44376464	NC_021160.1	Ca_kabuli_chr01	44376464	CC	AA	1946747379
SNP_P4_16918_44376467	NC_021160.1	Ca_kabuli_chr01	44376467	TT	CC	1946747381
SNP_P4_16919_44376488	NC_021160.1	Ca_kabuli_chr01	44376488	CC	TT	1946747383
SNP_P4_16920_44376506	NC_021160.1	Ca_kabuli_chr01	44376506	TT	CC	1946747385
SNP_P4_16921_44376512	NC_021160.1	Ca_kabuli_chr01	44376512	GG	AA	1946747387
SNP_P4_16922_44376690	NC_021160.1	Ca_kabuli_chr01	44376690	AA	GG	1946747389
SNP_P4_16923_44384585	NC_021160.1	Ca_kabuli_chr01	44384585	TT	AA	1946747391
SNP_P4_16924_44384586	NC_021160.1	Ca_kabuli_chr01	44384586	TT	AA	1946747393
SNP_P4_16925_44384701	NC_021160.1	Ca_kabuli_chr01	44384701	CC	TT	1946747395
SNP_P4_16926_44384703	NC_021160.1	Ca_kabuli_chr01	44384703	GG	AA	1946747397
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SNP_P4_16928_44385027	NC_021160.1	Ca_kabuli_chr01	44385027	AA	TT	1946747401
SNP_P4_16929_44389187	NC_021160.1	Ca_kabuli_chr01	44389187	GG	AA	1946747403
SNP_P4_16930_44402989	NC_021160.1	Ca_kabuli_chr01	44402989	TT	CC	1946747405
SNP_P4_16931_44402997	NC_021160.1	Ca_kabuli_chr01	44402997	TT	CC	1946747406
SNP_P4_16932_44403033	NC_021160.1	Ca_kabuli_chr01	44403033	CC	TT	1946747408
SNP_P4_16933_44403045	NC_021160.1	Ca_kabuli_chr01	44403045	TT	CC	1946747410
SNP_P4_16934_44404397	NC_021160.1	Ca_kabuli_chr01	44404397	TT	CC	1946747412
SNP_P4_16936_44427725	NC_021160.1	Ca_kabuli_chr01	44427725	GG	AA	1946747414
SNP_P4_16937_44428116	NC_021160.1	Ca_kabuli_chr01	44428116	AA	TT	1946747416
SNP_P4_16938_44428118	NC_021160.1	Ca_kabuli_chr01	44428118	GG	AA	1946747418
SNP_P4_16939_44428175	NC_021160.1	Ca_kabuli_chr01	44428175	AA	CC	1946747420
SNP_P4_16940_44428187	NC_021160.1	Ca_kabuli_chr01	44428187	AA	GG	1946747422
SNP_P4_16941_44428209	NC_021160.1	Ca_kabuli_chr01	44428209	TT	CC	1946747424
SNP_P4_16942_44428222	NC_021160.1	Ca_kabuli_chr01	44428222	AA	GG	1946747426
SNP_P4_16943_44428235	NC_021160.1	Ca_kabuli_chr01	44428235	CC	TT	1946747428
SNP_P4_16944_44428298	NC_021160.1	Ca_kabuli_chr01	44428298	CC	TT	1946747430

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_16946_44428324	NC_021160.1	Ca_kabuli_chr01	44428324	CC	TT	1946747434
SNP_P4_16947_44428567	NC_021160.1	Ca_kabuli_chr01	44428567	TT	GG	1946747436
SNP_P4_16948_44467145	NC_021160.1	Ca_kabuli_chr01	44467145	CC	TT	1946747437
SNP_P4_16950_44467507	NC_021160.1	Ca_kabuli_chr01	44467507	TT	CC	1946747439
SNP_P4_16951_44467579	NC_021160.1	Ca_kabuli_chr01	44467579	TT	CC	1946747441
SNP_P4_16952_44467582	NC_021160.1	Ca_kabuli_chr01	44467582	GG	AA	1946747443
SNP_P4_16953_44487149	NC_021160.1	Ca_kabuli_chr01	44487149	CC	TT	1946747445
SNP_P4_16954_44502624	NC_021160.1	Ca_kabuli_chr01	44502624	TT	CC	1946747447
SNP_P4_16955_44503554	NC_021160.1	Ca_kabuli_chr01	44503554	AA	TT	1946747449
SNP_P4_16956_44519058	NC_021160.1	Ca_kabuli_chr01	44519058	GG	AA	1946747451
SNP_P4_16957_44537545	NC_021160.1	Ca_kabuli_chr01	44537545	CC	TT	1946747453
SNP_P4_16958_44537559	NC_021160.1	Ca_kabuli_chr01	44537559	AA	GG	1946747455
SNP_P4_16959_44537587	NC_021160.1	Ca_kabuli_chr01	44537587	TT	AA	1946747456
SNP_P4_16960_44537599	NC_021160.1	Ca_kabuli_chr01	44537599	CC	GG	1946747458
SNP_P4_16961_44537611	NC_021160.1	Ca_kabuli_chr01	44537611	GG	AA	1946747460
SNP_P4_16962_44537671	NC_021160.1	Ca_kabuli_chr01	44537671	TT	CC	1946747462
SNP_P4_16963_44537679	NC_021160.1	Ca_kabuli_chr01	44537679	AA	GG	1946747464
SNP_P4_16964_44537704	NC_021160.1	Ca_kabuli_chr01	44537704	TT	CC	1946747466
SNP_P4_16965_44537714	NC_021160.1	Ca_kabuli_chr01	44537714	CC	AA	1946747468
SNP_P4_16966_44537725	NC_021160.1	Ca_kabuli_chr01	44537725	GG	AA	1946747470
SNP_P4_16967_44543306	NC_021160.1	Ca_kabuli_chr01	44543306	AA	CC	1946747471
SNP_P4_16968_44583690	NC_021160.1	Ca_kabuli_chr01	44583690	CC	TT	1946747473
SNP_P4_16969_44588400	NC_021160.1	Ca_kabuli_chr01	44588400	AA	GG	1946747475
SNP_P4_16970_44588913	NC_021160.1	Ca_kabuli_chr01	44588913	TT	GG	1946747477
SNP_P4_16971_44588918	NC_021160.1	Ca_kabuli_chr01	44588918	TT	CC	1946747479
SNP_P4_16972_44588933	NC_021160.1	Ca_kabuli_chr01	44588933	AA	GG	1946747481
SNP_P4_16973_44588951	NC_021160.1	Ca_kabuli_chr01	44588951	AA	CC	1946747483
SNP_P4_16974_44588986	NC_021160.1	Ca_kabuli_chr01	44588986	AA	GG	1946747485
SNP_P4_16975_44588988	NC_021160.1	Ca_kabuli_chr01	44588988	CC	TT	1946747487
SNP_P4_16976_44589027	NC_021160.1	Ca_kabuli_chr01	44589027	TT	GG	1946747488
SNP_P4_16977_44589123	NC_021160.1	Ca_kabuli_chr01	44589123	AA	CC	1946747490
SNP_P4_16978_44589126	NC_021160.1	Ca_kabuli_chr01	44589126	GG	TT	1946747492
SNP_P4_16979_44592377	NC_021160.1	Ca_kabuli_chr01	44592377	AA	GG	1946747494
SNP_P4_16980_44592395	NC_021160.1	Ca_kabuli_chr01	44592395	AA	CC	1946747496
SNP_P4_16981_44592416	NC_021160.1	Ca_kabuli_chr01	44592416	TT	GG	1946747498
SNP_P4_16982_44592562	NC_021160.1	Ca_kabuli_chr01	44592562	AA	GG	1946747500
SNP_P4_16983_44592563	NC_021160.1	Ca_kabuli_chr01	44592563	AA	GG	1946747502
SNP_P4_16984_44592574	NC_021160.1	Ca_kabuli_chr01	44592574	CC	AA	1946747504
SNP_P4_16985_44592576	NC_021160.1	Ca_kabuli_chr01	44592576	AA	TT	1946747506
SNP_P4_16986_44592606	NC_021160.1	Ca_kabuli_chr01	44592606	TT	CC	1946747508
SNP_P4_16987_44592626	NC_021160.1	Ca_kabuli_chr01	44592626	TT	CC	1946747510

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_16989_44592660	NC_021160.1	Ca_kabuli_chr01	44592660	TT	CC	1946747513
SNP_P4_16990_44592673	NC_021160.1	Ca_kabuli_chr01	44592673	AA	GG	1946747515
SNP_P4_16991_44592807	NC_021160.1	Ca_kabuli_chr01	44592807	CC	TT	1946747517
SNP_P4_16992_44603594	NC_021160.1	Ca_kabuli_chr01	44603594	TT	CC	1946747519
SNP_P4_16993_44610916	NC_021160.1	Ca_kabuli_chr01	44610916	GG	TT	1946747521
SNP_P4_16994_44611152	NC_021160.1	Ca_kabuli_chr01	44611152	CC	GG	1946747523
SNP_P4_16995_44611165	NC_021160.1	Ca_kabuli_chr01	44611165	GG	AA	1946747525
SNP_P4_16996_44618035	NC_021160.1	Ca_kabuli_chr01	44618035	AA	GG	1946747527
SNP_P4_16997_44618055	NC_021160.1	Ca_kabuli_chr01	44618055	TT	CC	1946747529
SNP_P4_16998_44618076	NC_021160.1	Ca_kabuli_chr01	44618076	TT	GG	1946747531
SNP_P4_16999_44618077	NC_021160.1	Ca_kabuli_chr01	44618077	CC	TT	1946747533
SNP_P4_17000_44618358	NC_021160.1	Ca_kabuli_chr01	44618358	TT	CC	1946747535
SNP_P4_17001_44631336	NC_021160.1	Ca_kabuli_chr01	44631336	TT	CC	1946747537
SNP_P4_17002_44650041	NC_021160.1	Ca_kabuli_chr01	44650041	TT	GG	1946747539
SNP_P4_17003_44650125	NC_021160.1	Ca_kabuli_chr01	44650125	GG	TT	1946747541
SNP_P4_17005_44650377	NC_021160.1	Ca_kabuli_chr01	44650377	CC	TT	1946747543
SNP_P4_17006_44650756	NC_021160.1	Ca_kabuli_chr01	44650756	AA	CC	1946747545
SNP_P4_17007_44650825	NC_021160.1	Ca_kabuli_chr01	44650825	AA	GG	1946747547
SNP_P4_17008_44651015	NC_021160.1	Ca_kabuli_chr01	44651015	GG	TT	1946747549
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SNP_P4_17010_44731459	NC_021160.1	Ca_kabuli_chr01	44731459	CC	AA	1946747553
SNP_P4_17012_44752095	NC_021160.1	Ca_kabuli_chr01	44752095	GG	AA	1946747555
SNP_P4_17014_44778653	NC_021160.1	Ca_kabuli_chr01	44778653	AA	CC	1946747557
SNP_P4_17015_44786318	NC_021160.1	Ca_kabuli_chr01	44786318	GG	TT	1946747559
SNP_P4_17016_44787874	NC_021160.1	Ca_kabuli_chr01	44787874	GG	TT	1946747561
SNP_P4_17017_44799000	NC_021160.1	Ca_kabuli_chr01	44799000	AA	GG	1946747563
SNP_P4_17018_44799710	NC_021160.1	Ca_kabuli_chr01	44799710	AA	CC	1946747565
SNP_P4_17019_44799723	NC_021160.1	Ca_kabuli_chr01	44799723	AA	GG	1946747567
SNP_P4_17021_44822591	NC_021160.1	Ca_kabuli_chr01	44822591	GG	CC	1946747569
SNP_P4_17022_44824726	NC_021160.1	Ca_kabuli_chr01	44824726	TT	AA	1946747571
SNP_P4_17023_44847011	NC_021160.1	Ca_kabuli_chr01	44847011	TT	CC	1946747573
SNP_P4_17024_44847090	NC_021160.1	Ca_kabuli_chr01	44847090	TT	GG	1946747575
SNP_P4_17025_44847118	NC_021160.1	Ca_kabuli_chr01	44847118	TT	AA	1946747577
SNP_P4_17026_44847153	NC_021160.1	Ca_kabuli_chr01	44847153	TT	AA	1946747579
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SNP_P4_17028_44847222	NC_021160.1	Ca_kabuli_chr01	44847222	CC	AA	1946747583
SNP_P4_17030_44847294	NC_021160.1	Ca_kabuli_chr01	44847294	GG	AA	1946747585
SNP_P4_17031_44847307	NC_021160.1	Ca_kabuli_chr01	44847307	TT	CC	1946747587
SNP_P4_17033_44847626	NC_021160.1	Ca_kabuli_chr01	44847626	CC	GG	1946747589
SNP_P4_17034_44848177	NC_021160.1	Ca_kabuli_chr01	44848177	GG	TT	1946747591
SNP_P4_17035_44848477	NC_021160.1	Ca_kabuli_chr01	44848477	CC	TT	1946747593

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_17037_44848559	NC_021160.1	Ca_kabuli_chr01	44848559	GG	AA	1946747597
SNP_P4_17038_44852912	NC_021160.1	Ca_kabuli_chr01	44852912	GG	AA	1946747599
SNP_P4_17039_44906802	NC_021160.1	Ca_kabuli_chr01	44906802	CC	TT	1946747601
SNP_P4_17040_44921038	NC_021160.1	Ca_kabuli_chr01	44921038	TT	AA	1946747603
SNP_P4_17041_44921039	NC_021160.1	Ca_kabuli_chr01	44921039	CC	TT	1946747605
SNP_P4_17042_44921189	NC_021160.1	Ca_kabuli_chr01	44921189	GG	AA	1946747606
SNP_P4_17043_44921240	NC_021160.1	Ca_kabuli_chr01	44921240	TT	CC	1946747609
SNP_P4_17045_44921633	NC_021160.1	Ca_kabuli_chr01	44921633	CC	TT	1946747611
SNP_P4_17046_44921666	NC_021160.1	Ca_kabuli_chr01	44921666	TT	CC	1946747613
SNP_P4_17048_44952296	NC_021160.1	Ca_kabuli_chr01	44952296	AA	GG	1946747615
SNP_P4_17049_44952312	NC_021160.1	Ca_kabuli_chr01	44952312	AA	GG	1946747617
SNP_P4_17050_44971201	NC_021160.1	Ca_kabuli_chr01	44971201	TT	CC	1946747619
SNP_P4_17051_45002226	NC_021160.1	Ca_kabuli_chr01	45002226	AA	GG	1946747621
SNP_P4_17053_45029189	NC_021160.1	Ca_kabuli_chr01	45029189	TT	GG	1946747623
SNP_P4_17054_45046073	NC_021160.1	Ca_kabuli_chr01	45046073	AA	TT	1946747625
SNP_P4_17056_45057840	NC_021160.1	Ca_kabuli_chr01	45057840	GG	AA	1946747627
SNP_P4_17057_45057944	NC_021160.1	Ca_kabuli_chr01	45057944	GG	TT	1946747629
SNP_P4_17059_45058032	NC_021160.1	Ca_kabuli_chr01	45058032	AA	GG	1946747631
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SNP_P4_17061_45058373	NC_021160.1	Ca_kabuli_chr01	45058373	TT	CC	1946747635
SNP_P4_17062_45058381	NC_021160.1	Ca_kabuli_chr01	45058381	TT	GG	1946747637
SNP_P4_17063_45058454	NC_021160.1	Ca_kabuli_chr01	45058454	GG	AA	1946747639
SNP_P4_17064_45058504	NC_021160.1	Ca_kabuli_chr01	45058504	AA	CC	1946747641
SNP_P4_17065_45096916	NC_021160.1	Ca_kabuli_chr01	45096916	GG	AA	1946747643
SNP_P4_17066_45096919	NC_021160.1	Ca_kabuli_chr01	45096919	GG	AA	1946747645
SNP_P4_17067_45096925	NC_021160.1	Ca_kabuli_chr01	45096925	GG	AA	1946747647
SNP_P4_17069_45105557	NC_021160.1	Ca_kabuli_chr01	45105557	TT	CC	1946747649
SNP_P4_17070_45112101	NC_021160.1	Ca_kabuli_chr01	45112101	CC	TT	1946747651
SNP_P4_17071_45112102	NC_021160.1	Ca_kabuli_chr01	45112102	TT	AA	1946747653
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SNP_P4_17073_45112108	NC_021160.1	Ca_kabuli_chr01	45112108	AA	CC	1946747657
SNP_P4_17074_45112112	NC_021160.1	Ca_kabuli_chr01	45112112	AA	TT	1946747659
SNP_P4_17075_45112144	NC_021160.1	Ca_kabuli_chr01	45112144	TT	CC	1946747661
SNP_P4_17076_45115626	NC_021160.1	Ca_kabuli_chr01	45115626	TT	CC	1946747663
SNP_P4_17078_45176306	NC_021160.1	Ca_kabuli_chr01	45176306	AA	CC	1946747665
SNP_P4_17079_45230556	NC_021160.1	Ca_kabuli_chr01	45230556	GG	AA	1946747667
SNP_P4_17080_45231878	NC_021160.1	Ca_kabuli_chr01	45231878	TT	GG	1946747669
SNP_P4_17081_45232277	NC_021160.1	Ca_kabuli_chr01	45232277	CC	GG	1946747671
SNP_P4_17082_45232327	NC_021160.1	Ca_kabuli_chr01	45232327	AA	GG	1946747673
SNP_P4_17085_45241677	NC_021160.1	Ca_kabuli_chr01	45241677	CC	GG	1946747675
SNP_P4_17086_45241764	NC_021160.1	Ca_kabuli_chr01	45241764	AA	GG	1946747677

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_17087_45241791	NC_021160.1	Ca_kabuli_chr01	45241791	TT	CC	1946747679
SNP_P4_17088_45241863	NC_021160.1	Ca_kabuli_chr01	45241863	TT	CC	1946747681
SNP_P4_17089_45241943	NC_021160.1	Ca_kabuli_chr01	45241943	AA	TT	1946747683
SNP_P4_17090_45241971	NC_021160.1	Ca_kabuli_chr01	45241971	AA	GG	1946747684
SNP_P4_17091_45241994	NC_021160.1	Ca_kabuli_chr01	45241994	TT	CC	1946747686
SNP_P4_17093_45242195	NC_021160.1	Ca_kabuli_chr01	45242195	TT	CC	1946747688
SNP_P4_17095_45243808	NC_021160.1	Ca_kabuli_chr01	45243808	GG	CC	1946747690
SNP_P4_17096_45243814	NC_021160.1	Ca_kabuli_chr01	45243814	GG	CC	1946747692
SNP_P4_17097_45243855	NC_021160.1	Ca_kabuli_chr01	45243855	TT	CC	1946747694
SNP_P4_17098_45244149	NC_021160.1	Ca_kabuli_chr01	45244149	CC	TT	1946747696
SNP_P4_17099_45244166	NC_021160.1	Ca_kabuli_chr01	45244166	TT	CC	1946747697
SNP_P4_17103_45263539	NC_021160.1	Ca_kabuli_chr01	45263539	CC	TT	1946747699
SNP_P4_17104_45265546	NC_021160.1	Ca_kabuli_chr01	45265546	CC	TT	1946747701
SNP_P4_17105_45265548	NC_021160.1	Ca_kabuli_chr01	45265548	CC	TT	1946747703
SNP_P4_17106_45267128	NC_021160.1	Ca_kabuli_chr01	45267128	CC	TT	1946747705
SNP_P4_17107_45267181	NC_021160.1	Ca_kabuli_chr01	45267181	GG	AA	1946747707
SNP_P4_17108_45267203	NC_021160.1	Ca_kabuli_chr01	45267203	TT	CC	1946747709
SNP_P4_17109_45272609	NC_021160.1	Ca_kabuli_chr01	45272609	GG	TT	1946747711
SNP_P4_17110_45275639	NC_021160.1	Ca_kabuli_chr01	45275639	TT	CC	1946747713
SNP_P4_17111_45305335	NC_021160.1	Ca_kabuli_chr01	45305335	TT	GG	1946747715
SNP_P4_17112_45308165	NC_021160.1	Ca_kabuli_chr01	45308165	TT	AA	1946747717
SNP_P4_17113_45332532	NC_021160.1	Ca_kabuli_chr01	45332532	TT	GG	1946747718
SNP_P4_17114_45332621	NC_021160.1	Ca_kabuli_chr01	45332621	AA	CC	1946747720
SNP_P4_17115_45332627	NC_021160.1	Ca_kabuli_chr01	45332627	GG	TT	1946747722
SNP_P4_17116_45332631	NC_021160.1	Ca_kabuli_chr01	45332631	GG	TT	1946747724
SNP_P4_17117_45332635	NC_021160.1	Ca_kabuli_chr01	45332635	AA	CC	1946747726
SNP_P4_17118_45332673	NC_021160.1	Ca_kabuli_chr01	45332673	AA	GG	1946747728
SNP_P4_17119_45332718	NC_021160.1	Ca_kabuli_chr01	45332718	CC	TT	1946747730
SNP_P4_17120_45332740	NC_021160.1	Ca_kabuli_chr01	45332740	AA	GG	1946747732
SNP_P4_17121_45332745	NC_021160.1	Ca_kabuli_chr01	45332745	TT	CC	1946747734
SNP_P4_17122_45332778	NC_021160.1	Ca_kabuli_chr01	45332778	GG	AA	1946747736
SNP_P4_17123_45332796	NC_021160.1	Ca_kabuli_chr01	45332796	CC	TT	1946747737
SNP_P4_17124_45332814	NC_021160.1	Ca_kabuli_chr01	45332814	AA	TT	1946747739
SNP_P4_17125_45333122	NC_021160.1	Ca_kabuli_chr01	45333122	TT	CC	1946747741
SNP_P4_17126_45337020	NC_021160.1	Ca_kabuli_chr01	45337020	AA	GG	1946747743
SNP_P4_17127_45337375	NC_021160.1	Ca_kabuli_chr01	45337375	AA	CC	1946747745
SNP_P4_17128_45352068	NC_021160.1	Ca_kabuli_chr01	45352068	TT	CC	1946747747
SNP_P4_17129_45364426	NC_021160.1	Ca_kabuli_chr01	45364426	TT	AA	1946747749
SNP_P4_17130_45372615	NC_021160.1	Ca_kabuli_chr01	45372615	CC	TT	1946747751
SNP_P4_17131_45372626	NC_021160.1	Ca_kabuli_chr01	45372626	TT	CC	1946747753
SNP_P4_17132_45372633	NC_021160.1	Ca_kabuli_chr01	45372633	CC	AA	1946747755
SNP_P4_17133_45377980	NC_021160.1	Ca_kabuli_chr01	45377980	GG	CC	1946747757

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_17135_45378029	NC_021160.1	Ca_kabuli_chr01	45378029	AA	GG	1946747761
SNP_P4_17136_45378036	NC_021160.1	Ca_kabuli_chr01	45378036	AA	GG	1946747763
SNP_P4_17137_45378070	NC_021160.1	Ca_kabuli_chr01	45378070	AA	GG	1946747765
SNP_P4_17138_45378081	NC_021160.1	Ca_kabuli_chr01	45378081	AA	TT	1946747766
SNP_P4_17139_45392079	NC_021160.1	Ca_kabuli_chr01	45392079	TT	CC	1946747768
SNP_P4_17140_45392105	NC_021160.1	Ca_kabuli_chr01	45392105	CC	AA	1946747770
SNP_P4_17141_45392155	NC_021160.1	Ca_kabuli_chr01	45392155	AA	GG	1946747772
SNP_P4_17142_45392293	NC_021160.1	Ca_kabuli_chr01	45392293	AA	CC	1946747774
SNP_P4_17143_45392351	NC_021160.1	Ca_kabuli_chr01	45392351	TT	AA	1946747776
SNP_P4_17144_45392490	NC_021160.1	Ca_kabuli_chr01	45392490	GG	CC	1946747778
SNP_P4_17145_45392526	NC_021160.1	Ca_kabuli_chr01	45392526	CC	TT	1946747780
SNP_P4_17146_45392575	NC_021160.1	Ca_kabuli_chr01	45392575	TT	AA	1946747782
SNP_P4_17148_45392721	NC_021160.1	Ca_kabuli_chr01	45392721	CC	TT	1946747784
SNP_P4_17149_45392741	NC_021160.1	Ca_kabuli_chr01	45392741	TT	CC	1946747786
SNP_P4_17151_45438348	NC_021160.1	Ca_kabuli_chr01	45438348	GG	AA	1946747788
SNP_P4_17152_45438350	NC_021160.1	Ca_kabuli_chr01	45438350	AA	GG	1946747790
SNP_P4_17153_45438627	NC_021160.1	Ca_kabuli_chr01	45438627	AA	GG	1946747792
SNP_P4_17154_45438633	NC_021160.1	Ca_kabuli_chr01	45438633	TT	GG	1946747794
SNP_P4_17155_45439019	NC_021160.1	Ca_kabuli_chr01	45439019	AA	CC	1946747796
SNP_P4_17157_45449882	NC_021160.1	Ca_kabuli_chr01	45449882	GG	TT	1946747798
SNP_P4_17158_45469178	NC_021160.1	Ca_kabuli_chr01	45469178	TT	GG	1946747800
SNP_P4_17159_45496998	NC_021160.1	Ca_kabuli_chr01	45496998	TT	GG	1946747802
SNP_P4_17160_45497016	NC_021160.1	Ca_kabuli_chr01	45497016	CC	TT	1946747804
SNP_P4_17161_45497025	NC_021160.1	Ca_kabuli_chr01	45497025	GG	AA	1946747806
SNP_P4_17162_45497049	NC_021160.1	Ca_kabuli_chr01	45497049	AA	GG	1946747808
SNP_P4_17164_45497213	NC_021160.1	Ca_kabuli_chr01	45497213	CC	AA	1946747810
SNP_P4_17165_45497309	NC_021160.1	Ca_kabuli_chr01	45497309	TT	CC	1946747812
SNP_P4_17166_45497346	NC_021160.1	Ca_kabuli_chr01	45497346	AA	CC	1946747814
SNP_P4_17167_45497483	NC_021160.1	Ca_kabuli_chr01	45497483	CC	GG	1946747816
SNP_P4_17168_45497503	NC_021160.1	Ca_kabuli_chr01	45497503	TT	AA	1946747818
SNP_P4_17169_45497510	NC_021160.1	Ca_kabuli_chr01	45497510	TT	CC	1946747820
SNP_P4_17170_45499262	NC_021160.1	Ca_kabuli_chr01	45499262	GG	TT	1946747822
SNP_P4_17171_45499289	NC_021160.1	Ca_kabuli_chr01	45499289	GG	AA	1946747824
SNP_P4_17172_45499313	NC_021160.1	Ca_kabuli_chr01	45499313	GG	AA	1946747826
SNP_P4_17174_45553145	NC_021160.1	Ca_kabuli_chr01	45553145	AA	GG	1946747828
SNP_P4_17175_45553150	NC_021160.1	Ca_kabuli_chr01	45553150	TT	CC	1946747830
SNP_P4_17176_45553152	NC_021160.1	Ca_kabuli_chr01	45553152	GG	AA	1946747832
SNP_P4_17177_45553165	NC_021160.1	Ca_kabuli_chr01	45553165	CC	TT	1946747834
SNP_P4_17178_45553220	NC_021160.1	Ca_kabuli_chr01	45553220	TT	CC	1946747836
SNP_P4_17179_45553234	NC_021160.1	Ca_kabuli_chr01	45553234	TT	CC	1946747838
SNP_P4_17180_45553262	NC_021160.1	Ca_kabuli_chr01	45553262	CC	TT	1946747840

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_17182_45553476	NC_021160.1	Ca_kabuli_chr01	45553476	TT	CC	1946747844
SNP_P4_17183_45553495	NC_021160.1	Ca_kabuli_chr01	45553495	AA	TT	1946747846
SNP_P4_17184_45553511	NC_021160.1	Ca_kabuli_chr01	45553511	AA	TT	1946747848
SNP_P4_17185_45553545	NC_021160.1	Ca_kabuli_chr01	45553545	TT	CC	1946747850
SNP_P4_17186_45567957	NC_021160.1	Ca_kabuli_chr01	45567957	CC	AA	1946747852
SNP_P4_17187_45568196	NC_021160.1	Ca_kabuli_chr01	45568196	TT	CC	1946747854
SNP_P4_17188_45592982	NC_021160.1	Ca_kabuli_chr01	45592982	AA	GG	1946747856
SNP_P4_17189_45593053	NC_021160.1	Ca_kabuli_chr01	45593053	AA	GG	1946747858
SNP_P4_17190_45593070	NC_021160.1	Ca_kabuli_chr01	45593070	GG	TT	1946747860
SNP_P4_17191_45593076	NC_021160.1	Ca_kabuli_chr01	45593076	CC	GG	1946747862
SNP_P4_17192_45593089	NC_021160.1	Ca_kabuli_chr01	45593089	CC	TT	1946747864
SNP_P4_17193_45593249	NC_021160.1	Ca_kabuli_chr01	45593249	CC	AA	1946747866
SNP_P4_17194_45605000	NC_021160.1	Ca_kabuli_chr01	45605000	TT	GG	1946747868
SNP_P4_17198_45611334	NC_021160.1	Ca_kabuli_chr01	45611334	TT	CC	1946747870
SNP_P4_17199_45613797	NC_021160.1	Ca_kabuli_chr01	45613797	GG	AA	1946747872
SNP_P4_17200_45617871	NC_021160.1	Ca_kabuli_chr01	45617871	GG	AA	1946747874
SNP_P4_17201_45645467	NC_021160.1	Ca_kabuli_chr01	45645467	AA	CC	1946747876
SNP_P4_17202_45647638	NC_021160.1	Ca_kabuli_chr01	45647638	CC	TT	1946747878
SNP_P4_17203_45662723	NC_021160.1	Ca_kabuli_chr01	45662723	GG	AA	1946747880
SNP_P4_17204_45663405	NC_021160.1	Ca_kabuli_chr01	45663405	AA	GG	1946747882
SNP_P4_17205_45663431	NC_021160.1	Ca_kabuli_chr01	45663431	TT	GG	1946747884
SNP_P4_17206_45733386	NC_021160.1	Ca_kabuli_chr01	45733386	AA	GG	1946747886
SNP_P4_17207_45753474	NC_021160.1	Ca_kabuli_chr01	45753474	CC	TT	1946747888
SNP_P4_17208_45754646	NC_021160.1	Ca_kabuli_chr01	45754646	CC	TT	1946747890
SNP_P4_17209_45768552	NC_021160.1	Ca_kabuli_chr01	45768552	CC	TT	1946747892
SNP_P4_17210_45768556	NC_021160.1	Ca_kabuli_chr01	45768556	AA	GG	1946747894
SNP_P4_17211_45788085	NC_021160.1	Ca_kabuli_chr01	45788085	CC	TT	1946747896
SNP_P4_17212_45788216	NC_021160.1	Ca_kabuli_chr01	45788216	TT	AA	1946747898
SNP_P4_17213_45788219	NC_021160.1	Ca_kabuli_chr01	45788219	TT	GG	1946747900
SNP_P4_17214_45788223	NC_021160.1	Ca_kabuli_chr01	45788223	CC	TT	1946747902
SNP_P4_17215_45788224	NC_021160.1	Ca_kabuli_chr01	45788224	TT	GG	1946747904
SNP_P4_17216_45788246	NC_021160.1	Ca_kabuli_chr01	45788246	TT	CC	1946747906
SNP_P4_17217_45788250	NC_021160.1	Ca_kabuli_chr01	45788250	GG	TT	1946747908
SNP_P4_17218_45797984	NC_021160.1	Ca_kabuli_chr01	45797984	AA	GG	1946747910
SNP_P4_17219_45798156	NC_021160.1	Ca_kabuli_chr01	45798156	TT	AA	1946747912
SNP_P4_17222_45884708	NC_021160.1	Ca_kabuli_chr01	45884708	TT	CC	1946747914
SNP_P4_17223_45913987	NC_021160.1	Ca_kabuli_chr01	45913987	TT	AA	1946747916
SNP_P4_17224_45913992	NC_021160.1	Ca_kabuli_chr01	45913992	CC	TT	1946747918
SNP_P4_17225_45913996	NC_021160.1	Ca_kabuli_chr01	45913996	GG	AA	1946747920
SNP_P4_17226_45914354	NC_021160.1	Ca_kabuli_chr01	45914354	TT	CC	1946747922
SNP_P4_17227_45914675	NC_021160.1	Ca_kabuli_chr01	45914675	TT	AA	1946747924

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_17229_45915413	NC_021160.1	Ca_kabuli_chr01	45915413	GG	CC	1946747928
SNP_P4_17230_45915414	NC_021160.1	Ca_kabuli_chr01	45915414	AA	CC	1946747930
SNP_P4_17231_45915431	NC_021160.1	Ca_kabuli_chr01	45915431	CC	TT	1946747932
SNP_P4_17232_45958185	NC_021160.1	Ca_kabuli_chr01	45958185	CC	TT	1946747934
SNP_P4_17233_45958188	NC_021160.1	Ca_kabuli_chr01	45958188	GG	AA	1946747936
SNP_P4_17234_45958196	NC_021160.1	Ca_kabuli_chr01	45958196	AA	TT	1946747938
SNP_P4_17235_45958214	NC_021160.1	Ca_kabuli_chr01	45958214	AA	TT	1946747940
SNP_P4_17236_45992959	NC_021160.1	Ca_kabuli_chr01	45992959	TT	CC	1946747942
SNP_P4_17237_45993222	NC_021160.1	Ca_kabuli_chr01	45993222	AA	CC	1946747944
SNP_P4_17238_45993263	NC_021160.1	Ca_kabuli_chr01	45993263	TT	CC	1946747946
SNP_P4_17240_46065891	NC_021160.1	Ca_kabuli_chr01	46065891	AA	GG	1946747948
SNP_P4_17241_46066290	NC_021160.1	Ca_kabuli_chr01	46066290	TT	AA	1946747950
SNP_P4_17242_46066293	NC_021160.1	Ca_kabuli_chr01	46066293	CC	TT	1946747952
SNP_P4_17243_46066296	NC_021160.1	Ca_kabuli_chr01	46066296	GG	AA	1946747954
SNP_P4_17244_46066347	NC_021160.1	Ca_kabuli_chr01	46066347	GG	TT	1946747956
SNP_P4_17245_46066466	NC_021160.1	Ca_kabuli_chr01	46066466	AA	GG	1946747958
SNP_P4_17246_46071599	NC_021160.1	Ca_kabuli_chr01	46071599	GG	AA	1946747960
SNP_P4_17247_46083394	NC_021160.1	Ca_kabuli_chr01	46083394	CC	TT	1946747962
SNP_P4_17248_46083409	NC_021160.1	Ca_kabuli_chr01	46083409	CC	AA	1946747964
SNP_P4_17249_46086816	NC_021160.1	Ca_kabuli_chr01	46086816	GG	TT	1946747966
SNP_P4_17250_46087087	NC_021160.1	Ca_kabuli_chr01	46087087	TT	AA	1946747968
SNP_P4_17251_46088061	NC_021160.1	Ca_kabuli_chr01	46088061	CC	TT	1946747970
SNP_P4_17253_46092516	NC_021160.1	Ca_kabuli_chr01	46092516	AA	CC	1946747972
SNP_P4_17254_46104851	NC_021160.1	Ca_kabuli_chr01	46104851	AA	TT	1946747974
SNP_P4_17255_46116903	NC_021160.1	Ca_kabuli_chr01	46116903	GG	AA	1946747976
SNP_P4_17256_46155524	NC_021160.1	Ca_kabuli_chr01	46155524	GG	TT	1946747978
SNP_P4_17257_46166483	NC_021160.1	Ca_kabuli_chr01	46166483	GG	AA	1946747980
SNP_P4_17258_46169977	NC_021160.1	Ca_kabuli_chr01	46169977	GG	TT	1946747982
SNP_P4_17259_46171346	NC_021160.1	Ca_kabuli_chr01	46171346	AA	GG	1946747984
SNP_P4_17260_46171497	NC_021160.1	Ca_kabuli_chr01	46171497	TT	AA	1946747986
SNP_P4_17261_46171498	NC_021160.1	Ca_kabuli_chr01	46171498	AA	GG	1946747988
SNP_P4_17262_46171677	NC_021160.1	Ca_kabuli_chr01	46171677	CC	TT	1946747990
SNP_P4_17263_46171753	NC_021160.1	Ca_kabuli_chr01	46171753	TT	CC	1946747992
SNP_P4_17264_46171756	NC_021160.1	Ca_kabuli_chr01	46171756	AA	TT	1946747994
SNP_P4_17265_46171807	NC_021160.1	Ca_kabuli_chr01	46171807	GG	AA	1946747996
SNP_P4_17266_46171827	NC_021160.1	Ca_kabuli_chr01	46171827	TT	GG	1946747998
SNP_P4_17267_46171837	NC_021160.1	Ca_kabuli_chr01	46171837	TT	CC	1946748000
SNP_P4_17268_46174087	NC_021160.1	Ca_kabuli_chr01	46174087	TT	CC	1946748002
SNP_P4_17269_46174358	NC_021160.1	Ca_kabuli_chr01	46174358	GG	TT	1946748004
SNP_P4_17270_46174560	NC_021160.1	Ca_kabuli_chr01	46174560	AA	TT	1946748006
SNP_P4_17271_46174605	NC_021160.1	Ca_kabuli_chr01	46174605	AA	GG	1946748008

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_17272_46174692	NC_021160.1	Ca_kabuli_chr01	46174692	AA	GG	1946748010
SNP_P4_17273_46177066	NC_021160.1	Ca_kabuli_chr01	46177066	AA	GG	1946748012
SNP_P4_17274_46178178	NC_021160.1	Ca_kabuli_chr01	46178178	CC	TT	1946748014
SNP_P4_17275_46178183	NC_021160.1	Ca_kabuli_chr01	46178183	CC	AA	1946748016
SNP_P4_17276_46178188	NC_021160.1	Ca_kabuli_chr01	46178188	AA	CC	1946748018
SNP_P4_17278_46178302	NC_021160.1	Ca_kabuli_chr01	46178302	CC	TT	1946748020
SNP_P4_17279_46179595	NC_021160.1	Ca_kabuli_chr01	46179595	AA	GG	1946748022
SNP_P4_17281_46192128	NC_021160.1	Ca_kabuli_chr01	46192128	CC	TT	1946748024
SNP_P4_17282_46192133	NC_021160.1	Ca_kabuli_chr01	46192133	TT	CC	1946748026
SNP_P4_17283_46192223	NC_021160.1	Ca_kabuli_chr01	46192223	AA	TT	1946748028
SNP_P4_17284_46192281	NC_021160.1	Ca_kabuli_chr01	46192281	TT	CC	1946748030
SNP_P4_17285_46205631	NC_021160.1	Ca_kabuli_chr01	46205631	AA	CC	1946748032
SNP_P4_17286_46240522	NC_021160.1	Ca_kabuli_chr01	46240522	AA	GG	1946748034
SNP_P4_17287_46242419	NC_021160.1	Ca_kabuli_chr01	46242419	TT	CC	1946748037
SNP_P4_17288_46259556	NC_021160.1	Ca_kabuli_chr01	46259556	AA	TT	1946748039
SNP_P4_17289_46262925	NC_021160.1	Ca_kabuli_chr01	46262925	CC	TT	1946748041
SNP_P4_17290_46263324	NC_021160.1	Ca_kabuli_chr01	46263324	TT	AA	1946748043
SNP_P4_17292_46277976	NC_021160.1	Ca_kabuli_chr01	46277976	TT	AA	1946748045
SNP_P4_17293_46278110	NC_021160.1	Ca_kabuli_chr01	46278110	TT	GG	1946748046
SNP_P4_17294_46278154	NC_021160.1	Ca_kabuli_chr01	46278154	GG	TT	1946748047
SNP_P4_17295_46278258	NC_021160.1	Ca_kabuli_chr01	46278258	TT	CC	1946748048
SNP_P4_17296_46278391	NC_021160.1	Ca_kabuli_chr01	46278391	GG	AA	1946748049
SNP_P4_17298_46278990	NC_021160.1	Ca_kabuli_chr01	46278990	GG	TT	1946748050
SNP_P4_17299_46279213	NC_021160.1	Ca_kabuli_chr01	46279213	TT	AA	1946748052
SNP_P4_17300_46279214	NC_021160.1	Ca_kabuli_chr01	46279214	TT	AA	1946748054
SNP_P4_17301_46279263	NC_021160.1	Ca_kabuli_chr01	46279263	TT	CC	1946748056
SNP_P4_17302_46279303	NC_021160.1	Ca_kabuli_chr01	46279303	AA	CC	1946748058
SNP_P4_17303_46279420	NC_021160.1	Ca_kabuli_chr01	46279420	TT	CC	1946748060
SNP_P4_17304_46279552	NC_021160.1	Ca_kabuli_chr01	46279552	CC	TT	1946748062
SNP_P4_17305_46279881	NC_021160.1	Ca_kabuli_chr01	46279881	TT	CC	1946748064
SNP_P4_17306_46279986	NC_021160.1	Ca_kabuli_chr01	46279986	CC	TT	1946748066
SNP_P4_17307_46280136	NC_021160.1	Ca_kabuli_chr01	46280136	AA	CC	1946748068
SNP_P4_17308_46280421	NC_021160.1	Ca_kabuli_chr01	46280421	AA	GG	1946748070
SNP_P4_17309_46280423	NC_021160.1	Ca_kabuli_chr01	46280423	TT	CC	1946748072
SNP_P4_17310_46280425	NC_021160.1	Ca_kabuli_chr01	46280425	CC	TT	1946748074
SNP_P4_17311_46280468	NC_021160.1	Ca_kabuli_chr01	46280468	AA	CC	1946748076
SNP_P4_17312_46280526	NC_021160.1	Ca_kabuli_chr01	46280526	GG	AA	1946748077
SNP_P4_17313_46280675	NC_021160.1	Ca_kabuli_chr01	46280675	CC	TT	1946748079
SNP_P4_17314_46280783	NC_021160.1	Ca_kabuli_chr01	46280783	TT	GG	1946748081
SNP_P4_17315_46281110	NC_021160.1	Ca_kabuli_chr01	46281110	TT	CC	1946748083
SNP_P4_17316_46282795	NC_021160.1	Ca_kabuli_chr01	46282795	AA	TT	1946748085
SNP_P4_17318_46283431	NC_021160.1	Ca_kabuli_chr01	46283431	GG	AA	1946748087

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_17320_46283682	NC_021160.1	Ca_kabuli_chr01	46283682	GG	AA	1946748091
SNP_P4_17321_46283861	NC_021160.1	Ca_kabuli_chr01	46283861	CC	AA	1946748093
SNP_P4_17322_46284112	NC_021160.1	Ca_kabuli_chr01	46284112	CC	TT	1946748095
SNP_P4_17323_46284535	NC_021160.1	Ca_kabuli_chr01	46284535	GG	AA	1946748097
SNP_P4_17324_46284673	NC_021160.1	Ca_kabuli_chr01	46284673	GG	AA	1946748099
SNP_P4_17325_46284997	NC_021160.1	Ca_kabuli_chr01	46284997	CC	TT	1946748101
SNP_P4_17326_46285113	NC_021160.1	Ca_kabuli_chr01	46285113	GG	AA	1946748103
SNP_P4_17327_46285294	NC_021160.1	Ca_kabuli_chr01	46285294	CC	TT	1946748105
SNP_P4_17328_46285302	NC_021160.1	Ca_kabuli_chr01	46285302	GG	AA	1946748107
SNP_P4_17329_46285622	NC_021160.1	Ca_kabuli_chr01	46285622	GG	TT	1946748109
SNP_P4_17330_46285789	NC_021160.1	Ca_kabuli_chr01	46285789	GG	CC	1946748111
SNP_P4_17331_46285870	NC_021160.1	Ca_kabuli_chr01	46285870	GG	CC	1946748113
SNP_P4_17332_46286015	NC_021160.1	Ca_kabuli_chr01	46286015	TT	GG	1946748114
SNP_P4_17333_46286059	NC_021160.1	Ca_kabuli_chr01	46286059	GG	TT	1946748116
SNP_P4_17334_46286066	NC_021160.1	Ca_kabuli_chr01	46286066	AA	GG	1946748118
SNP_P4_17335_46286530	NC_021160.1	Ca_kabuli_chr01	46286530	TT	GG	1946748120
SNP_P4_17336_46286560	NC_021160.1	Ca_kabuli_chr01	46286560	GG	CC	1946748122
SNP_P4_17339_46302167	NC_021160.1	Ca_kabuli_chr01	46302167	TT	CC	1946748124
SNP_P4_17340_46325187	NC_021160.1	Ca_kabuli_chr01	46325187	GG	AA	1946748126
SNP_P4_17341_46335145	NC_021160.1	Ca_kabuli_chr01	46335145	TT	AA	1946748128
SNP_P4_17342_46342206	NC_021160.1	Ca_kabuli_chr01	46342206	TT	CC	1946748130
SNP_P4_17343_46351263	NC_021160.1	Ca_kabuli_chr01	46351263	CC	TT	1946748132
SNP_P4_17344_46351273	NC_021160.1	Ca_kabuli_chr01	46351273	GG	AA	1946748134
SNP_P4_17345_46351612	NC_021160.1	Ca_kabuli_chr01	46351612	TT	GG	1946748136
SNP_P4_17346_46351630	NC_021160.1	Ca_kabuli_chr01	46351630	GG	AA	1946748138
SNP_P4_17347_46351661	NC_021160.1	Ca_kabuli_chr01	46351661	CC	TT	1946748140
SNP_P4_17348_46351682	NC_021160.1	Ca_kabuli_chr01	46351682	GG	AA	1946748141
SNP_P4_17349_46351700	NC_021160.1	Ca_kabuli_chr01	46351700	CC	AA	1946748143
SNP_P4_17350_46351707	NC_021160.1	Ca_kabuli_chr01	46351707	TT	AA	1946748145
SNP_P4_17351_46351730	NC_021160.1	Ca_kabuli_chr01	46351730	GG	AA	1946748147
SNP_P4_17352_46351929	NC_021160.1	Ca_kabuli_chr01	46351929	TT	CC	1946748149
SNP_P4_17353_46352041	NC_021160.1	Ca_kabuli_chr01	46352041	GG	TT	1946748151
SNP_P4_17354_46352057	NC_021160.1	Ca_kabuli_chr01	46352057	AA	CC	1946748153
SNP_P4_17355_46352070	NC_021160.1	Ca_kabuli_chr01	46352070	AA	GG	1946748155
SNP_P4_17356_46352104	NC_021160.1	Ca_kabuli_chr01	46352104	AA	GG	1946748157
SNP_P4_17358_46352220	NC_021160.1	Ca_kabuli_chr01	46352220	TT	GG	1946748159
SNP_P4_17359_46352257	NC_021160.1	Ca_kabuli_chr01	46352257	CC	GG	1946748161
SNP_P4_17360_46352258	NC_021160.1	Ca_kabuli_chr01	46352258	CC	TT	1946748163
SNP_P4_17361_46352262	NC_021160.1	Ca_kabuli_chr01	46352262	TT	CC	1946748165
SNP_P4_17362_46352291	NC_021160.1	Ca_kabuli_chr01	46352291	CC	TT	1946748167
SNP_P4_17363_46367898	NC_021160.1	Ca_kabuli_chr01	46367898	TT	AA	1946748169

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_17365_46368135	NC_021160.1	Ca_kabuli_chr01	46368135	GG	AA	1946748171
SNP_P4_17366_46392133	NC_021160.1	Ca_kabuli_chr01	46392133	TT	GG	1946748172
SNP_P4_17367_46392135	NC_021160.1	Ca_kabuli_chr01	46392135	TT	CC	1946748173
SNP_P4_17368_46393250	NC_021160.1	Ca_kabuli_chr01	46393250	GG	AA	1946748174
SNP_P4_17369_46393617	NC_021160.1	Ca_kabuli_chr01	46393617	TT	CC	1946748175
SNP_P4_17370_46395150	NC_021160.1	Ca_kabuli_chr01	46395150	AA	GG	1946748176
SNP_P4_17371_46450918	NC_021160.1	Ca_kabuli_chr01	46450918	TT	CC	1946748178
SNP_P4_17372_46452021	NC_021160.1	Ca_kabuli_chr01	46452021	GG	AA	1946748180
SNP_P4_17373_46454343	NC_021160.1	Ca_kabuli_chr01	46454343	AA	GG	1946748182
SNP_P4_17374_46491076	NC_021160.1	Ca_kabuli_chr01	46491076	TT	AA	1946748184
SNP_P4_17376_46499645	NC_021160.1	Ca_kabuli_chr01	46499645	TT	GG	1946748186
SNP_P4_17377_46499682	NC_021160.1	Ca_kabuli_chr01	46499682	GG	AA	1946748188
SNP_P4_17378_46499742	NC_021160.1	Ca_kabuli_chr01	46499742	GG	TT	1946748190
SNP_P4_17380_46500149	NC_021160.1	Ca_kabuli_chr01	46500149	TT	AA	1946748192
SNP_P4_17382_46507224	NC_021160.1	Ca_kabuli_chr01	46507224	GG	AA	1946748193
SNP_P4_17383_46516032	NC_021160.1	Ca_kabuli_chr01	46516032	TT	AA	1946748195
SNP_P4_17384_46519212	NC_021160.1	Ca_kabuli_chr01	46519212	GG	AA	1946748197
SNP_P4_17385_46519215	NC_021160.1	Ca_kabuli_chr01	46519215	AA	GG	1946748199
SNP_P4_17386_46522590	NC_021160.1	Ca_kabuli_chr01	46522590	GG	AA	1946748201
SNP_P4_17387_46523221	NC_021160.1	Ca_kabuli_chr01	46523221	TT	CC	1946748203
SNP_P4_17389_46523582	NC_021160.1	Ca_kabuli_chr01	46523582	AA	CC	1946748205
SNP_P4_17390_46524525	NC_021160.1	Ca_kabuli_chr01	46524525	TT	GG	1946748207
SNP_P4_17391_46524696	NC_021160.1	Ca_kabuli_chr01	46524696	CC	GG	1946748209
SNP_P4_17392_46524740	NC_021160.1	Ca_kabuli_chr01	46524740	GG	TT	1946748210
SNP_P4_17393_46525525	NC_021160.1	Ca_kabuli_chr01	46525525	GG	AA	1946748212
SNP_P4_17395_46526227	NC_021160.1	Ca_kabuli_chr01	46526227	AA	GG	1946748214
SNP_P4_17396_46526315	NC_021160.1	Ca_kabuli_chr01	46526315	TT	CC	1946748216
SNP_P4_17398_46527842	NC_021160.1	Ca_kabuli_chr01	46527842	GG	TT	1946748218
SNP_P4_17399_46528032	NC_021160.1	Ca_kabuli_chr01	46528032	TT	CC	1946748220
SNP_P4_17400_46528205	NC_021160.1	Ca_kabuli_chr01	46528205	TT	CC	1946748222
SNP_P4_17401_46528327	NC_021160.1	Ca_kabuli_chr01	46528327	TT	AA	1946748224
SNP_P4_17402_46528351	NC_021160.1	Ca_kabuli_chr01	46528351	GG	AA	1946748226
SNP_P4_17404_46528669	NC_021160.1	Ca_kabuli_chr01	46528669	CC	TT	1946748228
SNP_P4_17405_46528715	NC_021160.1	Ca_kabuli_chr01	46528715	AA	GG	1946748230
SNP_P4_17407_46528767	NC_021160.1	Ca_kabuli_chr01	46528767	AA	GG	1946748232
SNP_P4_17408_46529096	NC_021160.1	Ca_kabuli_chr01	46529096	TT	CC	1946748234
SNP_P4_17409_46529312	NC_021160.1	Ca_kabuli_chr01	46529312	AA	GG	1946748236
SNP_P4_17410_46529335	NC_021160.1	Ca_kabuli_chr01	46529335	TT	CC	1946748238
SNP_P4_17411_46529530	NC_021160.1	Ca_kabuli_chr01	46529530	AA	GG	1946748239
SNP_P4_17412_46529554	NC_021160.1	Ca_kabuli_chr01	46529554	AA	GG	1946748241
SNP_P4_17413_46529691	NC_021160.1	Ca_kabuli_chr01	46529691	GG	AA	1946748243

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_17415_46529892	NC_021160.1	Ca_kabuli_chr01	46529892	AA	CC	1946748247
SNP_P4_17416_46529977	NC_021160.1	Ca_kabuli_chr01	46529977	CC	TT	1946748249
SNP_P4_17417_46530174	NC_021160.1	Ca_kabuli_chr01	46530174	AA	GG	1946748251
SNP_P4_17418_46530275	NC_021160.1	Ca_kabuli_chr01	46530275	GG	AA	1946748253
SNP_P4_17419_46530475	NC_021160.1	Ca_kabuli_chr01	46530475	CC	GG	1946748255
SNP_P4_17420_46530546	NC_021160.1	Ca_kabuli_chr01	46530546	GG	AA	1946748257
SNP_P4_17421_46530766	NC_021160.1	Ca_kabuli_chr01	46530766	AA	GG	1946748259
SNP_P4_17422_46530832	NC_021160.1	Ca_kabuli_chr01	46530832	GG	AA	1946748261
SNP_P4_17424_46531318	NC_021160.1	Ca_kabuli_chr01	46531318	AA	GG	1946748262
SNP_P4_17425_46534819	NC_021160.1	Ca_kabuli_chr01	46534819	GG	AA	1946748264
SNP_P4_17426_46534829	NC_021160.1	Ca_kabuli_chr01	46534829	AA	TT	1946748266
SNP_P4_17427_46538684	NC_021160.1	Ca_kabuli_chr01	46538684	AA	TT	1946748268
SNP_P4_17428_46538685	NC_021160.1	Ca_kabuli_chr01	46538685	CC	GG	1946748270
SNP_P4_17429_46538708	NC_021160.1	Ca_kabuli_chr01	46538708	CC	GG	1946748272
SNP_P4_17430_46538713	NC_021160.1	Ca_kabuli_chr01	46538713	CC	TT	1946748274
SNP_P4_17431_46538715	NC_021160.1	Ca_kabuli_chr01	46538715	AA	GG	1946748276
SNP_P4_17432_46538857	NC_021160.1	Ca_kabuli_chr01	46538857	GG	TT	1946748278
SNP_P4_17433_46538858	NC_021160.1	Ca_kabuli_chr01	46538858	TT	CC	1946748280
SNP_P4_17434_46539156	NC_021160.1	Ca_kabuli_chr01	46539156	AA	GG	1946748281
SNP_P4_17437_46539601	NC_021160.1	Ca_kabuli_chr01	46539601	CC	TT	1946748283
SNP_P4_17438_46540478	NC_021160.1	Ca_kabuli_chr01	46540478	CC	AA	1946748285
SNP_P4_17439_46565798	NC_021160.1	Ca_kabuli_chr01	46565798	TT	CC	1946748287
SNP_P4_17440_46566162	NC_021160.1	Ca_kabuli_chr01	46566162	AA	TT	1946748289
SNP_P4_17441_46568417	NC_021160.1	Ca_kabuli_chr01	46568417	CC	TT	1946748291
SNP_P4_17442_46568456	NC_021160.1	Ca_kabuli_chr01	46568456	TT	CC	1946748293
SNP_P4_17443_46568457	NC_021160.1	Ca_kabuli_chr01	46568457	GG	AA	1946748295
SNP_P4_17444_46568654	NC_021160.1	Ca_kabuli_chr01	46568654	AA	TT	1946748297
SNP_P4_17445_46568738	NC_021160.1	Ca_kabuli_chr01	46568738	GG	AA	1946748299
SNP_P4_17446_46568793	NC_021160.1	Ca_kabuli_chr01	46568793	TT	CC	1946748301
SNP_P4_17447_46619680	NC_021160.1	Ca_kabuli_chr01	46619680	CC	TT	1946748303
SNP_P4_17448_46630111	NC_021160.1	Ca_kabuli_chr01	46630111	GG	AA	1946748305
SNP_P4_17449_46630116	NC_021160.1	Ca_kabuli_chr01	46630116	CC	TT	1946748307
SNP_P4_17450_46630123	NC_021160.1	Ca_kabuli_chr01	46630123	TT	CC	1946748309
SNP_P4_17451_46632002	NC_021160.1	Ca_kabuli_chr01	46632002	GG	AA	1946748310
SNP_P4_17452_46632025	NC_021160.1	Ca_kabuli_chr01	46632025	CC	TT	1946748312
SNP_P4_17453_46632521	NC_021160.1	Ca_kabuli_chr01	46632521	AA	GG	1946748314
SNP_P4_17455_46640420	NC_021160.1	Ca_kabuli_chr01	46640420	CC	TT	1946748316
SNP_P4_17456_46658803	NC_021160.1	Ca_kabuli_chr01	46658803	TT	GG	1946748318
SNP_P4_17457_46660539	NC_021160.1	Ca_kabuli_chr01	46660539	AA	CC	1946748320
SNP_P4_17458_46661624	NC_021160.1	Ca_kabuli_chr01	46661624	TT	AA	1946748322
SNP_P4_17459_46661658	NC_021160.1	Ca_kabuli_chr01	46661658	TT	CC	1946748324

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_17461_46661756	NC_021160.1	Ca_kabuli_chr01	46661756	GG	CC	1946748328
SNP_P4_17462_46661822	NC_021160.1	Ca_kabuli_chr01	46661822	TT	GG	1946748330
SNP_P4_17463_46661916	NC_021160.1	Ca_kabuli_chr01	46661916	TT	CC	1946748332
SNP_P4_17465_46662080	NC_021160.1	Ca_kabuli_chr01	46662080	CC	TT	1946748334
SNP_P4_17466_46664606	NC_021160.1	Ca_kabuli_chr01	46664606	AA	GG	1946748336
SNP_P4_17467_46667148	NC_021160.1	Ca_kabuli_chr01	46667148	CC	TT	1946748338
SNP_P4_17468_46698957	NC_021160.1	Ca_kabuli_chr01	46698957	TT	CC	1946748340
SNP_P4_17469_46699267	NC_021160.1	Ca_kabuli_chr01	46699267	AA	TT	1946748342
SNP_P4_17470_46699359	NC_021160.1	Ca_kabuli_chr01	46699359	AA	TT	1946748344
SNP_P4_17471_46699362	NC_021160.1	Ca_kabuli_chr01	46699362	GG	AA	1946748346
SNP_P4_17472_46699365	NC_021160.1	Ca_kabuli_chr01	46699365	TT	AA	1946748348
SNP_P4_17473_46699371	NC_021160.1	Ca_kabuli_chr01	46699371	AA	GG	1946748350
SNP_P4_17474_46699374	NC_021160.1	Ca_kabuli_chr01	46699374	AA	TT	1946748352
SNP_P4_17475_46699381	NC_021160.1	Ca_kabuli_chr01	46699381	TT	CC	1946748354
SNP_P4_17476_46699386	NC_021160.1	Ca_kabuli_chr01	46699386	GG	AA	1946748356
SNP_P4_17477_46699389	NC_021160.1	Ca_kabuli_chr01	46699389	CC	AA	1946748358
SNP_P4_17478_46699758	NC_021160.1	Ca_kabuli_chr01	46699758	AA	GG	1946748360
SNP_P4_17479_46701093	NC_021160.1	Ca_kabuli_chr01	46701093	CC	TT	1946748362
SNP_P4_17480_46701149	NC_021160.1	Ca_kabuli_chr01	46701149	AA	TT	1946748364
SNP_P4_17481_46701278	NC_021160.1	Ca_kabuli_chr01	46701278	AA	GG	1946748366
SNP_P4_17482_46701354	NC_021160.1	Ca_kabuli_chr01	46701354	TT	GG	1946748368
SNP_P4_17483_46701575	NC_021160.1	Ca_kabuli_chr01	46701575	GG	AA	1946748370
SNP_P4_17485_46797945	NC_021160.1	Ca_kabuli_chr01	46797945	TT	AA	1946748372
SNP_P4_17487_46801179	NC_021160.1	Ca_kabuli_chr01	46801179	AA	GG	1946748374
SNP_P4_17488_46801543	NC_021160.1	Ca_kabuli_chr01	46801543	TT	AA	1946748376
SNP_P4_17489_46801706	NC_021160.1	Ca_kabuli_chr01	46801706	CC	AA	1946748378
SNP_P4_17490_46811995	NC_021160.1	Ca_kabuli_chr01	46811995	AA	TT	1946748380
SNP_P4_17491_46812020	NC_021160.1	Ca_kabuli_chr01	46812020	TT	CC	1946748382
SNP_P4_17492_46814876	NC_021160.1	Ca_kabuli_chr01	46814876	GG	TT	1946748384
SNP_P4_17493_46819052	NC_021160.1	Ca_kabuli_chr01	46819052	CC	TT	1946748386
SNP_P4_17494_46819079	NC_021160.1	Ca_kabuli_chr01	46819079	TT	AA	1946748388
SNP_P4_17495_46819093	NC_021160.1	Ca_kabuli_chr01	46819093	TT	CC	1946748390
SNP_P4_17496_46819223	NC_021160.1	Ca_kabuli_chr01	46819223	AA	GG	1946748392
SNP_P4_17497_46819391	NC_021160.1	Ca_kabuli_chr01	46819391	CC	TT	1946748394
SNP_P4_17498_46819439	NC_021160.1	Ca_kabuli_chr01	46819439	GG	AA	1946748396
SNP_P4_17499_46819853	NC_021160.1	Ca_kabuli_chr01	46819853	CC	TT	1946748398
SNP_P4_17500_46819949	NC_021160.1	Ca_kabuli_chr01	46819949	GG	AA	1946748400
SNP_P4_17501_46820211	NC_021160.1	Ca_kabuli_chr01	46820211	GG	AA	1946748402
SNP_P4_17502_46820570	NC_021160.1	Ca_kabuli_chr01	46820570	AA	CC	1946748404
SNP_P4_17503_46822788	NC_021160.1	Ca_kabuli_chr01	46822788	CC	TT	1946748406
SNP_P4_17504_46826069	NC_021160.1	Ca_kabuli_chr01	46826069	TT	CC	1946748408

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_17506_46831616	NC_021160.1	Ca_kabuli_chr01	46831616	GG	CC	1946748412
SNP_P4_17507_46831661	NC_021160.1	Ca_kabuli_chr01	46831661	AA	TT	1946748414
SNP_P4_17508_46831846	NC_021160.1	Ca_kabuli_chr01	46831846	TT	AA	1946748416
SNP_P4_17510_46831978	NC_021160.1	Ca_kabuli_chr01	46831978	AA	GG	1946748418
SNP_P4_17511_46831997	NC_021160.1	Ca_kabuli_chr01	46831997	GG	AA	1946748420
SNP_P4_17512_46832007	NC_021160.1	Ca_kabuli_chr01	46832007	CC	AA	1946748422
SNP_P4_17513_46832040	NC_021160.1	Ca_kabuli_chr01	46832040	TT	GG	1946748424
SNP_P4_17515_46836156	NC_021160.1	Ca_kabuli_chr01	46836156	TT	CC	1946748426
SNP_P4_17516_46836191	NC_021160.1	Ca_kabuli_chr01	46836191	CC	TT	1946748428
SNP_P4_17517_46836202	NC_021160.1	Ca_kabuli_chr01	46836202	CC	AA	1946748430
SNP_P4_17518_46836207	NC_021160.1	Ca_kabuli_chr01	46836207	CC	TT	1946748432
SNP_P4_17519_46848921	NC_021160.1	Ca_kabuli_chr01	46848921	AA	GG	1946748434
SNP_P4_17520_46848940	NC_021160.1	Ca_kabuli_chr01	46848940	AA	GG	1946748436
SNP_P4_17521_46848952	NC_021160.1	Ca_kabuli_chr01	46848952	AA	CC	1946748438
SNP_P4_17522_46849233	NC_021160.1	Ca_kabuli_chr01	46849233	CC	TT	1946748440
SNP_P4_17523_46849262	NC_021160.1	Ca_kabuli_chr01	46849262	GG	AA	1946748442
SNP_P4_17524_46849777	NC_021160.1	Ca_kabuli_chr01	46849777	GG	AA	1946748444
SNP_P4_17525_46851810	NC_021160.1	Ca_kabuli_chr01	46851810	AA	GG	1946748446
SNP_P4_17526_46855396	NC_021160.1	Ca_kabuli_chr01	46855396	AA	GG	1946748448
SNP_P4_17527_46856129	NC_021160.1	Ca_kabuli_chr01	46856129	TT	CC	1946748450
SNP_P4_17528_46856178	NC_021160.1	Ca_kabuli_chr01	46856178	TT	CC	1946748452
SNP_P4_17529_46856189	NC_021160.1	Ca_kabuli_chr01	46856189	TT	CC	1946748454
SNP_P4_17530_46856662	NC_021160.1	Ca_kabuli_chr01	46856662	AA	GG	1946748456
SNP_P4_17531_46863021	NC_021160.1	Ca_kabuli_chr01	46863021	CC	TT	1946748458
SNP_P4_17532_46864230	NC_021160.1	Ca_kabuli_chr01	46864230	AA	TT	1946748460
SNP_P4_17534_46867324	NC_021160.1	Ca_kabuli_chr01	46867324	AA	CC	1946748462
SNP_P4_17535_46867345	NC_021160.1	Ca_kabuli_chr01	46867345	TT	CC	1946748464
SNP_P4_17537_46869159	NC_021160.1	Ca_kabuli_chr01	46869159	GG	AA	1946748466
SNP_P4_17538_46884109	NC_021160.1	Ca_kabuli_chr01	46884109	GG	AA	1946748468
SNP_P4_17539_46892305	NC_021160.1	Ca_kabuli_chr01	46892305	GG	AA	1946748470
SNP_P4_17540_46894685	NC_021160.1	Ca_kabuli_chr01	46894685	AA	GG	1946748472
SNP_P4_17541_46894736	NC_021160.1	Ca_kabuli_chr01	46894736	AA	CC	1946748474
SNP_P4_17542_46894766	NC_021160.1	Ca_kabuli_chr01	46894766	CC	TT	1946748476
SNP_P4_17543_46894790	NC_021160.1	Ca_kabuli_chr01	46894790	CC	TT	1946748478
SNP_P4_17544_46894870	NC_021160.1	Ca_kabuli_chr01	46894870	GG	AA	1946748480
SNP_P4_17545_46894878	NC_021160.1	Ca_kabuli_chr01	46894878	GG	TT	1946748482
SNP_P4_17546_46895151	NC_021160.1	Ca_kabuli_chr01	46895151	TT	GG	1946748484
SNP_P4_17547_46895162	NC_021160.1	Ca_kabuli_chr01	46895162	GG	AA	1946748486
SNP_P4_17548_46895210	NC_021160.1	Ca_kabuli_chr01	46895210	AA	GG	1946748488
SNP_P4_17549_46895231	NC_021160.1	Ca_kabuli_chr01	46895231	AA	GG	1946748490
SNP_P4_17550_46895234	NC_021160.1	Ca_kabuli_chr01	46895234	AA	GG	1946748492

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_17555_46978546	NC_021160.1	Ca_kabuli_chr01	46978546	CC	AA	1946748497
SNP_P4_17556_46978551	NC_021160.1	Ca_kabuli_chr01	46978551	CC	TT	1946748499
SNP_P4_17557_46978580	NC_021160.1	Ca_kabuli_chr01	46978580	TT	CC	1946748501
SNP_P4_17558_46981469	NC_021160.1	Ca_kabuli_chr01	46981469	AA	GG	1946748503
SNP_P4_17559_46981897	NC_021160.1	Ca_kabuli_chr01	46981897	GG	AA	1946748505
SNP_P4_17561_47023654	NC_021160.1	Ca_kabuli_chr01	47023654	AA	GG	1946748507
SNP_P4_17562_47023668	NC_021160.1	Ca_kabuli_chr01	47023668	AA	TT	1946748509
SNP_P4_17563_47023694	NC_021160.1	Ca_kabuli_chr01	47023694	TT	AA	1946748511
SNP_P4_17564_47026018	NC_021160.1	Ca_kabuli_chr01	47026018	CC	TT	1946748513
SNP_P4_17565_47026074	NC_021160.1	Ca_kabuli_chr01	47026074	CC	TT	1946748515
SNP_P4_17566_47037268	NC_021160.1	Ca_kabuli_chr01	47037268	GG	AA	1946748517
SNP_P4_17568_47058264	NC_021160.1	Ca_kabuli_chr01	47058264	AA	TT	1946748519
SNP_P4_17569_47058323	NC_021160.1	Ca_kabuli_chr01	47058323	TT	AA	1946748521
SNP_P4_17570_47058329	NC_021160.1	Ca_kabuli_chr01	47058329	TT	GG	1946748523
SNP_P4_17571_47058684	NC_021160.1	Ca_kabuli_chr01	47058684	TT	GG	1946748525
SNP_P4_17572_47058840	NC_021160.1	Ca_kabuli_chr01	47058840	GG	CC	1946748527
SNP_P4_17573_47059122	NC_021160.1	Ca_kabuli_chr01	47059122	AA	GG	1946748528
SNP_P4_17574_47059137	NC_021160.1	Ca_kabuli_chr01	47059137	CC	GG	1946748530
SNP_P4_17575_47059186	NC_021160.1	Ca_kabuli_chr01	47059186	AA	CC	1946748532
SNP_P4_17576_47059188	NC_021160.1	Ca_kabuli_chr01	47059188	GG	AA	1946748534
SNP_P4_17577_47059330	NC_021160.1	Ca_kabuli_chr01	47059330	GG	TT	1946748536
SNP_P4_17578_47069742	NC_021160.1	Ca_kabuli_chr01	47069742	CC	GG	1946748538
SNP_P4_17579_47069743	NC_021160.1	Ca_kabuli_chr01	47069743	AA	TT	1946748540
SNP_P4_17580_47104627	NC_021160.1	Ca_kabuli_chr01	47104627	TT	CC	1946748542
SNP_P4_17581_47148239	NC_021160.1	Ca_kabuli_chr01	47148239	CC	TT	1946748544
SNP_P4_17583_47186804	NC_021160.1	Ca_kabuli_chr01	47186804	GG	TT	1946748546
SNP_P4_17585_47190714	NC_021160.1	Ca_kabuli_chr01	47190714	CC	GG	1946748548
SNP_P4_17586_47195939	NC_021160.1	Ca_kabuli_chr01	47195939	GG	AA	1946748550
SNP_P4_17587_47197498	NC_021160.1	Ca_kabuli_chr01	47197498	AA	GG	1946748552
SNP_P4_17588_47209400	NC_021160.1	Ca_kabuli_chr01	47209400	TT	GG	1946748554
SNP_P4_17589_47239985	NC_021160.1	Ca_kabuli_chr01	47239985	CC	AA	1946748556
SNP_P4_17590_47257621	NC_021160.1	Ca_kabuli_chr01	47257621	CC	TT	1946748558
SNP_P4_17592_47277083	NC_021160.1	Ca_kabuli_chr01	47277083	GG	TT	1946748560
SNP_P4_17593_47292006	NC_021160.1	Ca_kabuli_chr01	47292006	CC	AA	1946748562
SNP_P4_17595_47292298	NC_021160.1	Ca_kabuli_chr01	47292298	GG	AA	1946748564
SNP_P4_17596_47292302	NC_021160.1	Ca_kabuli_chr01	47292302	GG	CC	1946748566
SNP_P4_17597_47292329	NC_021160.1	Ca_kabuli_chr01	47292329	AA	GG	1946748567
SNP_P4_17598_47292356	NC_021160.1	Ca_kabuli_chr01	47292356	CC	GG	1946748569
SNP_P4_17599_47292397	NC_021160.1	Ca_kabuli_chr01	47292397	CC	TT	1946748571
SNP_P4_17600_47296073	NC_021160.1	Ca_kabuli_chr01	47296073	TT	AA	1946748573
SNP_P4_17601_47303762	NC_021160.1	Ca_kabuli_chr01	47303762	AA	TT	1946748575

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_17603_47328987	NC_021160.1	Ca_kabuli_chr01	47328987	CC	GG	1946748579
SNP_P4_17604_47329372	NC_021160.1	Ca_kabuli_chr01	47329372	GG	AA	1946748581
SNP_P4_17607_47346554	NC_021160.1	Ca_kabuli_chr01	47346554	TT	CC	1946748583
SNP_P4_17608_47370738	NC_021160.1	Ca_kabuli_chr01	47370738	CC	TT	1946748585
SNP_P4_17609_47370785	NC_021160.1	Ca_kabuli_chr01	47370785	AA	CC	1946748587
SNP_P4_17610_47373118	NC_021160.1	Ca_kabuli_chr01	47373118	TT	CC	1946748589
SNP_P4_17612_47375942	NC_021160.1	Ca_kabuli_chr01	47375942	CC	AA	1946748591
SNP_P4_17613_47375976	NC_021160.1	Ca_kabuli_chr01	47375976	TT	CC	1946748592
SNP_P4_17615_47391830	NC_021160.1	Ca_kabuli_chr01	47391830	AA	TT	1946748594
SNP_P4_17616_47396880	NC_021160.1	Ca_kabuli_chr01	47396880	CC	TT	1946748596
SNP_P4_17617_47404892	NC_021160.1	Ca_kabuli_chr01	47404892	CC	TT	1946748598
SNP_P4_17618_47416777	NC_021160.1	Ca_kabuli_chr01	47416777	TT	CC	1946748600
SNP_P4_17620_47459248	NC_021160.1	Ca_kabuli_chr01	47459248	CC	TT	1946748602
SNP_P4_17621_47459279	NC_021160.1	Ca_kabuli_chr01	47459279	CC	TT	1946748604
SNP_P4_17622_47507721	NC_021160.1	Ca_kabuli_chr01	47507721	CC	AA	1946748606
SNP_P4_17623_47507848	NC_021160.1	Ca_kabuli_chr01	47507848	AA	GG	1946748608
SNP_P4_17624_47510901	NC_021160.1	Ca_kabuli_chr01	47510901	AA	GG	1946748610
SNP_P4_17625_47517344	NC_021160.1	Ca_kabuli_chr01	47517344	CC	AA	1946748612
SNP_P4_17626_47519418	NC_021160.1	Ca_kabuli_chr01	47519418	CC	AA	1946748614
SNP_P4_17627_47523903	NC_021160.1	Ca_kabuli_chr01	47523903	GG	CC	1946748616
SNP_P4_17628_47529500	NC_021160.1	Ca_kabuli_chr01	47529500	AA	TT	1946748618
SNP_P4_17629_47538076	NC_021160.1	Ca_kabuli_chr01	47538076	CC	TT	1946748620
SNP_P4_17630_47549915	NC_021160.1	Ca_kabuli_chr01	47549915	CC	AA	1946748622
SNP_P4_17633_47585085	NC_021160.1	Ca_kabuli_chr01	47585085	CC	TT	1946748624
SNP_P4_17634_47605920	NC_021160.1	Ca_kabuli_chr01	47605920	GG	TT	1946748626
SNP_P4_17635_47608230	NC_021160.1	Ca_kabuli_chr01	47608230	GG	AA	1946748628
SNP_P4_17636_47625981	NC_021160.1	Ca_kabuli_chr01	47625981	CC	TT	1946748630
SNP_P4_17637_47626276	NC_021160.1	Ca_kabuli_chr01	47626276	CC	AA	1946748632
SNP_P4_17638_47626486	NC_021160.1	Ca_kabuli_chr01	47626486	TT	AA	1946748634
SNP_P4_17639_47626487	NC_021160.1	Ca_kabuli_chr01	47626487	CC	AA	1946748636
SNP_P4_17641_47626884	NC_021160.1	Ca_kabuli_chr01	47626884	AA	TT	1946748638
SNP_P4_17642_47626903	NC_021160.1	Ca_kabuli_chr01	47626903	GG	TT	1946748640
SNP_P4_17643_47626908	NC_021160.1	Ca_kabuli_chr01	47626908	GG	CC	1946748642
SNP_P4_17644_47626945	NC_021160.1	Ca_kabuli_chr01	47626945	AA	GG	1946748644
SNP_P4_17645_47626954	NC_021160.1	Ca_kabuli_chr01	47626954	CC	TT	1946748647
SNP_P4_17646_47630499	NC_021160.1	Ca_kabuli_chr01	47630499	TT	CC	1946748649
SNP_P4_17647_47630502	NC_021160.1	Ca_kabuli_chr01	47630502	CC	AA	1946748651
SNP_P4_17649_47630795	NC_021160.1	Ca_kabuli_chr01	47630795	AA	GG	1946748653
SNP_P4_17651_47631504	NC_021160.1	Ca_kabuli_chr01	47631504	TT	AA	1946748655
SNP_P4_17652_47633064	NC_021160.1	Ca_kabuli_chr01	47633064	GG	AA	1946748657
SNP_P4_17653_47633102	NC_021160.1	Ca_kabuli_chr01	47633102	CC	TT	1946748659

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_17655_47680839	NC_021160.1	Ca_kabuli_chr01	47680839	CC	TT	1946748663
SNP_P4_17656_47729136	NC_021160.1	Ca_kabuli_chr01	47729136	AA	GG	1946748665
SNP_P4_17658_47730482	NC_021160.1	Ca_kabuli_chr01	47730482	TT	CC	1946748667
SNP_P4_17659_47743992	NC_021160.1	Ca_kabuli_chr01	47743992	CC	AA	1946748669
SNP_P4_17660_47771112	NC_021160.1	Ca_kabuli_chr01	47771112	AA	GG	1946748671
SNP_P4_17661_47771205	NC_021160.1	Ca_kabuli_chr01	47771205	AA	GG	1946748673
SNP_P4_17663_47771271	NC_021160.1	Ca_kabuli_chr01	47771271	TT	GG	1946748675
SNP_P4_17664_47771493	NC_021160.1	Ca_kabuli_chr01	47771493	CC	TT	1946748677
SNP_P4_17665_47814848	NC_021160.1	Ca_kabuli_chr01	47814848	TT	CC	1946748679
SNP_P4_17666_47823431	NC_021160.1	Ca_kabuli_chr01	47823431	CC	TT	1946748681
SNP_P4_17667_47838229	NC_021160.1	Ca_kabuli_chr01	47838229	TT	CC	1946748683
SNP_P4_17668_47838355	NC_021160.1	Ca_kabuli_chr01	47838355	GG	AA	1946748685
SNP_P4_17669_47838359	NC_021160.1	Ca_kabuli_chr01	47838359	TT	CC	1946748687
SNP_P4_17670_47838374	NC_021160.1	Ca_kabuli_chr01	47838374	AA	GG	1946748689
SNP_P4_17671_47838380	NC_021160.1	Ca_kabuli_chr01	47838380	GG	AA	1946748691
SNP_P4_17672_47838536	NC_021160.1	Ca_kabuli_chr01	47838536	AA	GG	1946748693
SNP_P4_17673_47839097	NC_021160.1	Ca_kabuli_chr01	47839097	TT	CC	1946748695
SNP_P4_17674_47839166	NC_021160.1	Ca_kabuli_chr01	47839166	AA	GG	1946748697
SNP_P4_17675_47839624	NC_021160.1	Ca_kabuli_chr01	47839624	AA	GG	1946748700
SNP_P4_17676_47839636	NC_021160.1	Ca_kabuli_chr01	47839636	AA	GG	1946748702
SNP_P4_17677_47839661	NC_021160.1	Ca_kabuli_chr01	47839661	GG	TT	1946748705
SNP_P4_17678_47839684	NC_021160.1	Ca_kabuli_chr01	47839684	TT	CC	1946748707
SNP_P4_17679_47847397	NC_021160.1	Ca_kabuli_chr01	47847397	CC	TT	1946748709
SNP_P4_17680_47859769	NC_021160.1	Ca_kabuli_chr01	47859769	AA	GG	1946748711
SNP_P4_17681_47859796	NC_021160.1	Ca_kabuli_chr01	47859796	TT	GG	1946748713
SNP_P4_17682_47874146	NC_021160.1	Ca_kabuli_chr01	47874146	CC	AA	1946748715
SNP_P4_17683_47874961	NC_021160.1	Ca_kabuli_chr01	47874961	GG	AA	1946748717
SNP_P4_17684_47874970	NC_021160.1	Ca_kabuli_chr01	47874970	GG	AA	1946748719
SNP_P4_17685_47875083	NC_021160.1	Ca_kabuli_chr01	47875083	AA	TT	1946748721
SNP_P4_17686_47875218	NC_021160.1	Ca_kabuli_chr01	47875218	AA	TT	1946748723
SNP_P4_17687_47875223	NC_021160.1	Ca_kabuli_chr01	47875223	AA	GG	1946748725
SNP_P4_17688_47875306	NC_021160.1	Ca_kabuli_chr01	47875306	TT	GG	1946748727
SNP_P4_17689_47875314	NC_021160.1	Ca_kabuli_chr01	47875314	GG	TT	1946748729
SNP_P4_17690_47875324	NC_021160.1	Ca_kabuli_chr01	47875324	CC	AA	1946748731
SNP_P4_17691_47875337	NC_021160.1	Ca_kabuli_chr01	47875337	TT	AA	1946748733
SNP_P4_17692_47875440	NC_021160.1	Ca_kabuli_chr01	47875440	GG	AA	1946748735
SNP_P4_17693_47875521	NC_021160.1	Ca_kabuli_chr01	47875521	AA	GG	1946748738
SNP_P4_17694_47877141	NC_021160.1	Ca_kabuli_chr01	47877141	CC	TT	1946748740
SNP_P4_17695_47892335	NC_021160.1	Ca_kabuli_chr01	47892335	GG	CC	1946748742
SNP_P4_17696_47892381	NC_021160.1	Ca_kabuli_chr01	47892381	TT	GG	1946748744
SNP_P4_17698_47913363	NC_021160.1	Ca_kabuli_chr01	47913363	GG	AA	1946748746

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_17700_47951152	NC_021160.1	Ca_kabuli_chr01	47951152	GG	TT	1946748750
SNP_P4_17701_47955945	NC_021160.1	Ca_kabuli_chr01	47955945	AA	TT	1946748752
SNP_P4_17703_47960462	NC_021160.1	Ca_kabuli_chr01	47960462	TT	AA	1946748754
SNP_P4_17705_47990928	NC_021160.1	Ca_kabuli_chr01	47990928	CC	TT	1946748756
SNP_P4_17706_48044715	NC_021160.1	Ca_kabuli_chr01	48044715	TT	CC	1946748758
SNP_P4_17708_48069650	NC_021160.1	Ca_kabuli_chr01	48069650	AA	CC	1946748760
SNP_P4_17709_48069979	NC_021160.1	Ca_kabuli_chr01	48069979	GG	AA	1946748762
SNP_P4_17710_48071249	NC_021160.1	Ca_kabuli_chr01	48071249	AA	GG	1946748764
SNP_P4_17711_48071258	NC_021160.1	Ca_kabuli_chr01	48071258	AA	CC	1946748766
SNP_P4_17712_48071260	NC_021160.1	Ca_kabuli_chr01	48071260	AA	GG	1946748769
SNP_P4_17713_48071274	NC_021160.1	Ca_kabuli_chr01	48071274	AA	GG	1946748771
SNP_P4_17714_48071289	NC_021160.1	Ca_kabuli_chr01	48071289	GG	AA	1946748773
SNP_P4_17715_48071290	NC_021160.1	Ca_kabuli_chr01	48071290	TT	GG	1946748775
SNP_P4_17716_48071373	NC_021160.1	Ca_kabuli_chr01	48071373	AA	GG	1946748777
SNP_P4_17717_48071479	NC_021160.1	Ca_kabuli_chr01	48071479	TT	CC	1946748779
SNP_P4_17718_48071904	NC_021160.1	Ca_kabuli_chr01	48071904	CC	GG	1946748781
SNP_P4_17719_48072934	NC_021160.1	Ca_kabuli_chr01	48072934	GG	AA	1946748784
SNP_P4_17720_48087711	NC_021160.1	Ca_kabuli_chr01	48087711	AA	TT	1946748786
SNP_P4_17721_48091287	NC_021160.1	Ca_kabuli_chr01	48091287	CC	TT	1946748788
SNP_P4_17722_48091753	NC_021160.1	Ca_kabuli_chr01	48091753	TT	CC	1946748790
SNP_P4_17725_48126883	NC_021160.1	Ca_kabuli_chr01	48126883	GG	AA	1946748792
SNP_P4_17726_48138665	NC_021160.1	Ca_kabuli_chr01	48138665	CC	TT	1946748794
SNP_P4_17727_48155868	NC_021160.1	Ca_kabuli_chr01	48155868	TT	GG	1946748796
SNP_P4_17728_48155870	NC_021160.1	Ca_kabuli_chr01	48155870	TT	GG	1946748798
SNP_P4_17729_48155872	NC_021160.1	Ca_kabuli_chr01	48155872	GG	TT	1946748800
SNP_P4_17732_48209720	NC_021160.1	Ca_kabuli_chr01	48209720	AA	GG	1946748802
SNP_P4_17733_48213164	NC_021160.1	Ca_kabuli_chr01	48213164	GG	AA	1946748804
SNP_P4_17734_48215062	NC_021160.1	Ca_kabuli_chr01	48215062	TT	AA	1946748806
SNP_P4_17735_48223068	NC_021160.1	Ca_kabuli_chr01	48223068	AA	CC	1946748808
SNP_P4_17736_48223110	NC_021160.1	Ca_kabuli_chr01	48223110	CC	TT	1946748810
SNP_P4_17738_48240297	NC_021160.1	Ca_kabuli_chr01	48240297	TT	AA	1946748812
SNP_P4_17740_48246915	NC_021160.1	Ca_kabuli_chr01	48246915	GG	AA	1946748814
SNP_P4_17741_48252032	NC_021160.1	Ca_kabuli_chr01	48252032	AA	GG	1946748816
SNP_P4_17742_48286647	NC_021160.1	Ca_kabuli_chr01	48286647	TT	CC	1946748818
SNP_P4_17743_48296825	NC_021160.1	Ca_kabuli_chr01	48296825	CC	TT	1946748820
SNP_P4_17744_48303240	NC_021160.1	Ca_kabuli_chr01	48303240	TT	CC	1946748822
SNP_P4_17745_48350294	NC_021160.1	Ca_kabuli_chr01	48350294	TT	CC	1946748824
SNP_P4_17746_48350311	NC_021160.1	Ca_kabuli_chr01	48350311	TT	CC	1946748826
SNP_P4_17747_759	NC_021161.1	Ca_kabuli_chr02	759	AA	GG	1946748828
SNP_P4_17748_808	NC_021161.1	Ca_kabuli_chr02	808	CC	GG	1946748831
SNP_P4_17749_32821	NC_021161.1	Ca_kabuli_chr02	32821	CC	TT	1946748833

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_17752_42046	NC_021161.1	Ca_kabuli_chr02	42046	CC	TT	1946748837
SNP_P4_17754_42249	NC_021161.1	Ca_kabuli_chr02	42249	AA	TT	1946748839
SNP_P4_17755_42433	NC_021161.1	Ca_kabuli_chr02	42433	AA	GG	1946748841
SNP_P4_17756_42678	NC_021161.1	Ca_kabuli_chr02	42678	AA	GG	1946748843
SNP_P4_17757_42907	NC_021161.1	Ca_kabuli_chr02	42907	AA	CC	1946748845
SNP_P4_17758_49284	NC_021161.1	Ca_kabuli_chr02	49284	CC	AA	1946748847
SNP_P4_17759_61678	NC_021161.1	Ca_kabuli_chr02	61678	TT	CC	1946748849
SNP_P4_17760_65696	NC_021161.1	Ca_kabuli_chr02	65696	AA	GG	1946748851
SNP_P4_17762_70724	NC_021161.1	Ca_kabuli_chr02	70724	CC	TT	1946748853
SNP_P4_17763_70737	NC_021161.1	Ca_kabuli_chr02	70737	TT	CC	1946748855
SNP_P4_17764_88119	NC_021161.1	Ca_kabuli_chr02	88119	TT	CC	1946748857
SNP_P4_17765_89822	NC_021161.1	Ca_kabuli_chr02	89822	CC	TT	1946748859
SNP_P4_17766_93778	NC_021161.1	Ca_kabuli_chr02	93778	CC	TT	1946748861
SNP_P4_17767_141818	NC_021161.1	Ca_kabuli_chr02	141818	GG	AA	1946748863
SNP_P4_17768_159763	NC_021161.1	Ca_kabuli_chr02	159763	TT	AA	1946748865
SNP_P4_17769_159766	NC_021161.1	Ca_kabuli_chr02	159766	TT	AA	1946748867
SNP_P4_17770_165540	NC_021161.1	Ca_kabuli_chr02	165540	GG	AA	1946748869
SNP_P4_17771_175927	NC_021161.1	Ca_kabuli_chr02	175927	AA	TT	1946748871
SNP_P4_17772_196656	NC_021161.1	Ca_kabuli_chr02	196656	TT	CC	1946748873
SNP_P4_17773_199338	NC_021161.1	Ca_kabuli_chr02	199338	TT	CC	1946748875
SNP_P4_17774_201151	NC_021161.1	Ca_kabuli_chr02	201151	GG	AA	1946748877
SNP_P4_17775_206646	NC_021161.1	Ca_kabuli_chr02	206646	GG	TT	1946748879
SNP_P4_17777_213664	NC_021161.1	Ca_kabuli_chr02	213664	TT	GG	1946748881
SNP_P4_17778_213668	NC_021161.1	Ca_kabuli_chr02	213668	AA	GG	1946748883
SNP_P4_17779_213674	NC_021161.1	Ca_kabuli_chr02	213674	TT	GG	1946748885
SNP_P4_17780_213709	NC_021161.1	Ca_kabuli_chr02	213709	CC	TT	1946748887
SNP_P4_17781_214996	NC_021161.1	Ca_kabuli_chr02	214996	CC	GG	1946748889
SNP_P4_17783_252483	NC_021161.1	Ca_kabuli_chr02	252483	CC	TT	1946748891
SNP_P4_17786_298435	NC_021161.1	Ca_kabuli_chr02	298435	GG	TT	1946748893
SNP_P4_17787_301598	NC_021161.1	Ca_kabuli_chr02	301598	CC	TT	1946748895
SNP_P4_17788_310469	NC_021161.1	Ca_kabuli_chr02	310469	AA	GG	1946748897
SNP_P4_17789_314961	NC_021161.1	Ca_kabuli_chr02	314961	CC	TT	1946748899
SNP_P4_17790_323509	NC_021161.1	Ca_kabuli_chr02	323509	TT	CC	1946748901
SNP_P4_17793_379377	NC_021161.1	Ca_kabuli_chr02	379377	CC	TT	1946748903
SNP_P4_17794_390044	NC_021161.1	Ca_kabuli_chr02	390044	GG	AA	1946748905
SNP_P4_17795_390075	NC_021161.1	Ca_kabuli_chr02	390075	GG	AA	1946748907
SNP_P4_17797_421743	NC_021161.1	Ca_kabuli_chr02	421743	TT	AA	1946748909
SNP_P4_17799_435691	NC_021161.1	Ca_kabuli_chr02	435691	TT	AA	1946748911
SNP_P4_17801_454087	NC_021161.1	Ca_kabuli_chr02	454087	TT	CC	1946748913
SNP_P4_17802_478241	NC_021161.1	Ca_kabuli_chr02	478241	TT	AA	1946748915
SNP_P4_17803_479647	NC_021161.1	Ca_kabuli_chr02	479647	TT	CC	1946748917

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_17806_490272	NC_021161.1	Ca_kabuli_chr02	490272	TT	CC	1946748921
SNP_P4_17807_490281	NC_021161.1	Ca_kabuli_chr02	490281	GG	AA	1946748923
SNP_P4_17808_490292	NC_021161.1	Ca_kabuli_chr02	490292	AA	GG	1946748925
SNP_P4_17809_491716	NC_021161.1	Ca_kabuli_chr02	491716	CC	TT	1946748927
SNP_P4_17810_495575	NC_021161.1	Ca_kabuli_chr02	495575	TT	CC	1946748929
SNP_P4_17811_496619	NC_021161.1	Ca_kabuli_chr02	496619	TT	CC	1946748931
SNP_P4_17812_496790	NC_021161.1	Ca_kabuli_chr02	496790	CC	AA	1946748933
SNP_P4_17813_496793	NC_021161.1	Ca_kabuli_chr02	496793	AA	GG	1946748935
SNP_P4_17814_496811	NC_021161.1	Ca_kabuli_chr02	496811	TT	CC	1946748937
SNP_P4_17815_500154	NC_021161.1	Ca_kabuli_chr02	500154	GG	TT	1946748939
SNP_P4_17816_503369	NC_021161.1	Ca_kabuli_chr02	503369	CC	AA	1946748941
SNP_P4_17817_503376	NC_021161.1	Ca_kabuli_chr02	503376	AA	TT	1946748943
SNP_P4_17818_526059	NC_021161.1	Ca_kabuli_chr02	526059	CC	TT	1946748945
SNP_P4_17819_577198	NC_021161.1	Ca_kabuli_chr02	577198	CC	TT	1946748946
SNP_P4_17820_582218	NC_021161.1	Ca_kabuli_chr02	582218	CC	TT	1946748948
SNP_P4_17821_600871	NC_021161.1	Ca_kabuli_chr02	600871	AA	TT	1946748950
SNP_P4_17822_612729	NC_021161.1	Ca_kabuli_chr02	612729	TT	CC	1946748952
SNP_P4_17823_621681	NC_021161.1	Ca_kabuli_chr02	621681	AA	GG	1946748954
SNP_P4_17824_622070	NC_021161.1	Ca_kabuli_chr02	622070	AA	GG	1946748956
SNP_P4_17825_622099	NC_021161.1	Ca_kabuli_chr02	622099	TT	CC	1946748958
SNP_P4_17826_622226	NC_021161.1	Ca_kabuli_chr02	622226	AA	CC	1946748960
SNP_P4_17827_622230	NC_021161.1	Ca_kabuli_chr02	622230	AA	GG	1946748962
SNP_P4_17828_622233	NC_021161.1	Ca_kabuli_chr02	622233	GG	TT	1946748964
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SNP_P4_17830_622304	NC_021161.1	Ca_kabuli_chr02	622304	AA	GG	1946748968
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SNP_P4_17832_625396	NC_021161.1	Ca_kabuli_chr02	625396	TT	AA	1946748972
SNP_P4_17833_636222	NC_021161.1	Ca_kabuli_chr02	636222	GG	TT	1946748974
SNP_P4_17834_636227	NC_021161.1	Ca_kabuli_chr02	636227	GG	AA	1946748976
SNP_P4_17835_636296	NC_021161.1	Ca_kabuli_chr02	636296	CC	TT	1946748978
SNP_P4_17836_636312	NC_021161.1	Ca_kabuli_chr02	636312	AA	GG	1946748980
SNP_P4_17837_636944	NC_021161.1	Ca_kabuli_chr02	636944	CC	TT	1946748982
SNP_P4_17838_641631	NC_021161.1	Ca_kabuli_chr02	641631	CC	AA	1946748984
SNP_P4_17839_642886	NC_021161.1	Ca_kabuli_chr02	642886	GG	TT	1946748986
SNP_P4_17840_644036	NC_021161.1	Ca_kabuli_chr02	644036	TT	GG	1946748988
SNP_P4_17841_644518	NC_021161.1	Ca_kabuli_chr02	644518	GG	AA	1946748990
SNP_P4_17842_644547	NC_021161.1	Ca_kabuli_chr02	644547	GG	AA	1946748992
SNP_P4_17843_644629	NC_021161.1	Ca_kabuli_chr02	644629	TT	AA	1946748994
SNP_P4_17844_647343	NC_021161.1	Ca_kabuli_chr02	647343	GG	CC	1946748996
SNP_P4_17845_652602	NC_021161.1	Ca_kabuli_chr02	652602	CC	TT	1946748998
SNP_P4_17846_653018	NC_021161.1	Ca_kabuli_chr02	653018	AA	GG	1946749000

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_17848_661280	NC_021161.1	Ca_kabuli_chr02	661280	AA	CC	1946749004
SNP_P4_17849_661282	NC_021161.1	Ca_kabuli_chr02	661282	TT	CC	1946749006
SNP_P4_17850_661283	NC_021161.1	Ca_kabuli_chr02	661283	TT	AA	1946749008
SNP_P4_17852_667402	NC_021161.1	Ca_kabuli_chr02	667402	TT	CC	1946749010
SNP_P4_17853_691280	NC_021161.1	Ca_kabuli_chr02	691280	CC	TT	1946749012
SNP_P4_17854_691281	NC_021161.1	Ca_kabuli_chr02	691281	TT	AA	1946749014
SNP_P4_17856_713978	NC_021161.1	Ca_kabuli_chr02	713978	TT	AA	1946749015
SNP_P4_17857_722961	NC_021161.1	Ca_kabuli_chr02	722961	CC	TT	1946749017
SNP_P4_17858_745164	NC_021161.1	Ca_kabuli_chr02	745164	AA	GG	1946749019
SNP_P4_17859_745897	NC_021161.1	Ca_kabuli_chr02	745897	AA	GG	1946749021
SNP_P4_17863_857157	NC_021161.1	Ca_kabuli_chr02	857157	AA	GG	1946749023
SNP_P4_17864_857169	NC_021161.1	Ca_kabuli_chr02	857169	TT	AA	1946749025
SNP_P4_17865_859530	NC_021161.1	Ca_kabuli_chr02	859530	AA	GG	1946749027
SNP_P4_17866_866639	NC_021161.1	Ca_kabuli_chr02	866639	CC	TT	1946749029
SNP_P4_17867_892483	NC_021161.1	Ca_kabuli_chr02	892483	CC	TT	1946749031
SNP_P4_17868_894931	NC_021161.1	Ca_kabuli_chr02	894931	GG	AA	1946749034
SNP_P4_17869_894934	NC_021161.1	Ca_kabuli_chr02	894934	CC	TT	1946749036
SNP_P4_17870_896294	NC_021161.1	Ca_kabuli_chr02	896294	GG	TT	1946749038
SNP_P4_17871_898472	NC_021161.1	Ca_kabuli_chr02	898472	AA	CC	1946749040
SNP_P4_17872_898539	NC_021161.1	Ca_kabuli_chr02	898539	GG	AA	1946749043
SNP_P4_17873_931417	NC_021161.1	Ca_kabuli_chr02	931417	GG	AA	1946749045
SNP_P4_17874_931426	NC_021161.1	Ca_kabuli_chr02	931426	AA	GG	1946749047
SNP_P4_17875_937987	NC_021161.1	Ca_kabuli_chr02	937987	AA	GG	1946749049
SNP_P4_17876_938056	NC_021161.1	Ca_kabuli_chr02	938056	TT	AA	1946749051
SNP_P4_17877_938084	NC_021161.1	Ca_kabuli_chr02	938084	AA	CC	1946749053
SNP_P4_17879_1008990	NC_021161.1	Ca_kabuli_chr02	1008990	GG	TT	1946749055
SNP_P4_17880_1022363	NC_021161.1	Ca_kabuli_chr02	1022363	AA	TT	1946749057
SNP_P4_17881_1022364	NC_021161.1	Ca_kabuli_chr02	1022364	AA	GG	1946749059
SNP_P4_17885_1040084	NC_021161.1	Ca_kabuli_chr02	1040084	CC	TT	1946749061
SNP_P4_17886_1040110	NC_021161.1	Ca_kabuli_chr02	1040110	GG	CC	1946749063
SNP_P4_17887_1040111	NC_021161.1	Ca_kabuli_chr02	1040111	TT	AA	1946749064
SNP_P4_17889_1040131	NC_021161.1	Ca_kabuli_chr02	1040131	TT	CC	1946749066
SNP_P4_17890_1040167	NC_021161.1	Ca_kabuli_chr02	1040167	GG	AA	1946749068
SNP_P4_17891_1040420	NC_021161.1	Ca_kabuli_chr02	1040420	GG	TT	1946749070
SNP_P4_17892_1041112	NC_021161.1	Ca_kabuli_chr02	1041112	AA	GG	1946749072
SNP_P4_17893_1041136	NC_021161.1	Ca_kabuli_chr02	1041136	TT	AA	1946749074
SNP_P4_17894_1041205	NC_021161.1	Ca_kabuli_chr02	1041205	AA	GG	1946749077
SNP_P4_17895_1041366	NC_021161.1	Ca_kabuli_chr02	1041366	GG	AA	1946749079
SNP_P4_17896_1041434	NC_021161.1	Ca_kabuli_chr02	1041434	AA	GG	1946749081
SNP_P4_17897_1041900	NC_021161.1	Ca_kabuli_chr02	1041900	AA	TT	1946749083
SNP_P4_17898_1045974	NC_021161.1	Ca_kabuli_chr02	1045974	CC	TT	1946749085

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_17899_1048553	NC_021161.1	Ca_kabuli_chr02	1048553	TT	AA	1946749087
SNP_P4_17900_1048661	NC_021161.1	Ca_kabuli_chr02	1048661	CC	GG	1946749089
SNP_P4_17901_1048681	NC_021161.1	Ca_kabuli_chr02	1048681	TT	AA	1946749091
SNP_P4_17902_1048683	NC_021161.1	Ca_kabuli_chr02	1048683	TT	AA	1946749093
SNP_P4_17903_1048684	NC_021161.1	Ca_kabuli_chr02	1048684	TT	AA	1946749094
SNP_P4_17904_1048696	NC_021161.1	Ca_kabuli_chr02	1048696	TT	CC	1946749096
SNP_P4_17905_1049048	NC_021161.1	Ca_kabuli_chr02	1049048	TT	AA	1946749098
SNP_P4_17906_1049331	NC_021161.1	Ca_kabuli_chr02	1049331	TT	CC	1946749100
SNP_P4_17907_1073752	NC_021161.1	Ca_kabuli_chr02	1073752	AA	CC	1946749102
SNP_P4_17908_1073874	NC_021161.1	Ca_kabuli_chr02	1073874	TT	AA	1946749104
SNP_P4_17909_1073892	NC_021161.1	Ca_kabuli_chr02	1073892	GG	AA	1946749106
SNP_P4_17911_1074446	NC_021161.1	Ca_kabuli_chr02	1074446	TT	AA	1946749108
SNP_P4_17913_1074897	NC_021161.1	Ca_kabuli_chr02	1074897	TT	CC	1946749110
SNP_P4_17914_1075717	NC_021161.1	Ca_kabuli_chr02	1075717	GG	AA	1946749112
SNP_P4_17916_1076971	NC_021161.1	Ca_kabuli_chr02	1076971	TT	CC	1946749114
SNP_P4_17917_1098025	NC_021161.1	Ca_kabuli_chr02	1098025	AA	TT	1946749116
SNP_P4_17918_1098029	NC_021161.1	Ca_kabuli_chr02	1098029	CC	GG	1946749118
SNP_P4_17919_1105674	NC_021161.1	Ca_kabuli_chr02	1105674	TT	GG	1946749120
SNP_P4_17921_1134133	NC_021161.1	Ca_kabuli_chr02	1134133	AA	TT	1946749122
SNP_P4_17922_1148438	NC_021161.1	Ca_kabuli_chr02	1148438	GG	AA	1946749124
SNP_P4_17923_1152782	NC_021161.1	Ca_kabuli_chr02	1152782	TT	AA	1946749126
SNP_P4_17924_1177921	NC_021161.1	Ca_kabuli_chr02	1177921	CC	TT	1946749128
SNP_P4_17925_1207910	NC_021161.1	Ca_kabuli_chr02	1207910	GG	AA	1946749129
SNP_P4_17926_1209240	NC_021161.1	Ca_kabuli_chr02	1209240	CC	TT	1946749131
SNP_P4_17927_1209442	NC_021161.1	Ca_kabuli_chr02	1209442	GG	AA	1946749133
SNP_P4_17928_1209447	NC_021161.1	Ca_kabuli_chr02	1209447	AA	GG	1946749135
SNP_P4_17929_1230714	NC_021161.1	Ca_kabuli_chr02	1230714	TT	CC	1946749137
SNP_P4_17930_1230720	NC_021161.1	Ca_kabuli_chr02	1230720	TT	CC	1946749139
SNP_P4_17931_1230723	NC_021161.1	Ca_kabuli_chr02	1230723	TT	CC	1946749141
SNP_P4_17932_1230925	NC_021161.1	Ca_kabuli_chr02	1230925	TT	CC	1946749143
SNP_P4_17933_1231618	NC_021161.1	Ca_kabuli_chr02	1231618	GG	AA	1946749145
SNP_P4_17934_1240431	NC_021161.1	Ca_kabuli_chr02	1240431	CC	TT	1946749147
SNP_P4_17935_1258289	NC_021161.1	Ca_kabuli_chr02	1258289	TT	CC	1946749149
SNP_P4_17937_1292114	NC_021161.1	Ca_kabuli_chr02	1292114	TT	AA	1946749151
SNP_P4_17938_1303139	NC_021161.1	Ca_kabuli_chr02	1303139	CC	TT	1946749153
SNP_P4_17939_1303184	NC_021161.1	Ca_kabuli_chr02	1303184	GG	AA	1946749155
SNP_P4_17940_1303231	NC_021161.1	Ca_kabuli_chr02	1303231	TT	GG	1946749157
SNP_P4_17941_1303503	NC_021161.1	Ca_kabuli_chr02	1303503	AA	GG	1946749159
SNP_P4_17942_1303510	NC_021161.1	Ca_kabuli_chr02	1303510	AA	GG	1946749160
SNP_P4_17943_1303532	NC_021161.1	Ca_kabuli_chr02	1303532	GG	AA	1946749162
SNP_P4_17944_1303601	NC_021161.1	Ca_kabuli_chr02	1303601	GG	AA	1946749164
SNP_P4_17945_1325424	NC_021161.1	Ca_kabuli_chr02	1325424	GG	TT	1946749166

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_17947_1372345	NC_021161.1	Ca_kabuli_chr02	1372345	AA	TT	1946749170
SNP_P4_17948_1394754	NC_021161.1	Ca_kabuli_chr02	1394754	AA	GG	1946749172
SNP_P4_17950_1416439	NC_021161.1	Ca_kabuli_chr02	1416439	TT	AA	1946749174
SNP_P4_17951_1423186	NC_021161.1	Ca_kabuli_chr02	1423186	CC	TT	1946749176
SNP_P4_17952_1461064	NC_021161.1	Ca_kabuli_chr02	1461064	TT	AA	1946749178
SNP_P4_17953_1461130	NC_021161.1	Ca_kabuli_chr02	1461130	GG	AA	1946749181
SNP_P4_17954_1461166	NC_021161.1	Ca_kabuli_chr02	1461166	AA	TT	1946749183
SNP_P4_17955_1461181	NC_021161.1	Ca_kabuli_chr02	1461181	TT	CC	1946749186
SNP_P4_17956_1461186	NC_021161.1	Ca_kabuli_chr02	1461186	CC	TT	1946749188
SNP_P4_17957_1461338	NC_021161.1	Ca_kabuli_chr02	1461338	CC	GG	1946749190
SNP_P4_17958_1461340	NC_021161.1	Ca_kabuli_chr02	1461340	GG	AA	1946749193
SNP_P4_17959_1461351	NC_021161.1	Ca_kabuli_chr02	1461351	AA	GG	1946749195
SNP_P4_17960_1461498	NC_021161.1	Ca_kabuli_chr02	1461498	AA	GG	1946749197
SNP_P4_17961_1461532	NC_021161.1	Ca_kabuli_chr02	1461532	CC	TT	1946749199
SNP_P4_17962_1461620	NC_021161.1	Ca_kabuli_chr02	1461620	CC	TT	1946749201
SNP_P4_17963_1461633	NC_021161.1	Ca_kabuli_chr02	1461633	AA	GG	1946749203
SNP_P4_17964_1462422	NC_021161.1	Ca_kabuli_chr02	1462422	AA	GG	1946749205
SNP_P4_17965_1462557	NC_021161.1	Ca_kabuli_chr02	1462557	GG	AA	1946749207
SNP_P4_17966_1462573	NC_021161.1	Ca_kabuli_chr02	1462573	GG	AA	1946749209
SNP_P4_17967_1468345	NC_021161.1	Ca_kabuli_chr02	1468345	CC	TT	1946749211
SNP_P4_17968_1469712	NC_021161.1	Ca_kabuli_chr02	1469712	AA	GG	1946749213
SNP_P4_17969_1469796	NC_021161.1	Ca_kabuli_chr02	1469796	TT	CC	1946749215
SNP_P4_17970_1469812	NC_021161.1	Ca_kabuli_chr02	1469812	AA	CC	1946749217
SNP_P4_17971_1470152	NC_021161.1	Ca_kabuli_chr02	1470152	TT	CC	1946749219
SNP_P4_17972_1470193	NC_021161.1	Ca_kabuli_chr02	1470193	GG	TT	1946749221
SNP_P4_17973_1486577	NC_021161.1	Ca_kabuli_chr02	1486577	TT	GG	1946749223
SNP_P4_17974_1486592	NC_021161.1	Ca_kabuli_chr02	1486592	TT	GG	1946749225
SNP_P4_17975_1486616	NC_021161.1	Ca_kabuli_chr02	1486616	GG	AA	1946749227
SNP_P4_17976_1486669	NC_021161.1	Ca_kabuli_chr02	1486669	TT	AA	1946749229
SNP_P4_17977_1486672	NC_021161.1	Ca_kabuli_chr02	1486672	AA	GG	1946749231
SNP_P4_17978_1486994	NC_021161.1	Ca_kabuli_chr02	1486994	AA	GG	1946749233
SNP_P4_17979_1487116	NC_021161.1	Ca_kabuli_chr02	1487116	CC	GG	1946749235
SNP_P4_17980_1487149	NC_021161.1	Ca_kabuli_chr02	1487149	TT	GG	1946749237
SNP_P4_17981_1487155	NC_021161.1	Ca_kabuli_chr02	1487155	AA	CC	1946749239
SNP_P4_17982_1487207	NC_021161.1	Ca_kabuli_chr02	1487207	TT	AA	1946749241
SNP_P4_17983_1487243	NC_021161.1	Ca_kabuli_chr02	1487243	AA	GG	1946749243
SNP_P4_17984_1487606	NC_021161.1	Ca_kabuli_chr02	1487606	CC	TT	1946749245
SNP_P4_17985_1503852	NC_021161.1	Ca_kabuli_chr02	1503852	GG	AA	1946749247
SNP_P4_17986_1541723	NC_021161.1	Ca_kabuli_chr02	1541723	AA	GG	1946749249
SNP_P4_17987_1541783	NC_021161.1	Ca_kabuli_chr02	1541783	CC	TT	1946749251
SNP_P4_17988_1541801	NC_021161.1	Ca_kabuli_chr02	1541801	GG	AA	1946749253

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_17989_1542770	NC_021161.1	Ca_kabuli_chr02	1542770	CC	TT	1946749255
SNP_P4_17990_1544105	NC_021161.1	Ca_kabuli_chr02	1544105	AA	GG	1946749257
SNP_P4_17991_1544769	NC_021161.1	Ca_kabuli_chr02	1544769	TT	CC	1946749259
SNP_P4_17992_1544796	NC_021161.1	Ca_kabuli_chr02	1544796	AA	CC	1946749261
SNP_P4_17993_1545989	NC_021161.1	Ca_kabuli_chr02	1545989	GG	AA	1946749263
SNP_P4_17994_1568902	NC_021161.1	Ca_kabuli_chr02	1568902	GG	AA	1946749265
SNP_P4_17995_1571720	NC_021161.1	Ca_kabuli_chr02	1571720	TT	GG	1946749267
SNP_P4_17996_1602921	NC_021161.1	Ca_kabuli_chr02	1602921	GG	TT	1946749269
SNP_P4_17997_1632155	NC_021161.1	Ca_kabuli_chr02	1632155	TT	CC	1946749271
SNP_P4_17998_1639786	NC_021161.1	Ca_kabuli_chr02	1639786	AA	TT	1946749273
SNP_P4_17999_1640042	NC_021161.1	Ca_kabuli_chr02	1640042	GG	TT	1946749275
SNP_P4_18000_1640052	NC_021161.1	Ca_kabuli_chr02	1640052	GG	TT	1946749277
SNP_P4_18002_1640275	NC_021161.1	Ca_kabuli_chr02	1640275	AA	GG	1946749279
SNP_P4_18003_1640387	NC_021161.1	Ca_kabuli_chr02	1640387	GG	TT	1946749281
SNP_P4_18004_1640440	NC_021161.1	Ca_kabuli_chr02	1640440	TT	AA	1946749283
SNP_P4_18005_1640449	NC_021161.1	Ca_kabuli_chr02	1640449	CC	TT	1946749285
SNP_P4_18006_1640511	NC_021161.1	Ca_kabuli_chr02	1640511	TT	AA	1946749288
SNP_P4_18007_1640532	NC_021161.1	Ca_kabuli_chr02	1640532	AA	TT	1946749290
SNP_P4_18008_1640552	NC_021161.1	Ca_kabuli_chr02	1640552	TT	CC	1946749292
SNP_P4_18009_1640857	NC_021161.1	Ca_kabuli_chr02	1640857	TT	AA	1946749294
SNP_P4_18011_1640937	NC_021161.1	Ca_kabuli_chr02	1640937	TT	AA	1946749296
SNP_P4_18012_1640955	NC_021161.1	Ca_kabuli_chr02	1640955	TT	CC	1946749298
SNP_P4_18013_1640961	NC_021161.1	Ca_kabuli_chr02	1640961	CC	TT	1946749300
SNP_P4_18014_1640970	NC_021161.1	Ca_kabuli_chr02	1640970	CC	TT	1946749302
SNP_P4_18015_1640985	NC_021161.1	Ca_kabuli_chr02	1640985	AA	GG	1946749304
SNP_P4_18016_1641027	NC_021161.1	Ca_kabuli_chr02	1641027	TT	AA	1946749306
SNP_P4_18017_1650078	NC_021161.1	Ca_kabuli_chr02	1650078	AA	GG	1946749308
SNP_P4_18018_1650101	NC_021161.1	Ca_kabuli_chr02	1650101	AA	TT	1946749310
SNP_P4_18019_1650670	NC_021161.1	Ca_kabuli_chr02	1650670	AA	TT	1946749312
SNP_P4_18020_1653480	NC_021161.1	Ca_kabuli_chr02	1653480	CC	TT	1946749314
SNP_P4_18021_1730275	NC_021161.1	Ca_kabuli_chr02	1730275	GG	TT	1946749316
SNP_P4_18022_1735132	NC_021161.1	Ca_kabuli_chr02	1735132	CC	TT	1946749318
SNP_P4_18023_1754562	NC_021161.1	Ca_kabuli_chr02	1754562	TT	GG	1946749321
SNP_P4_18024_1767855	NC_021161.1	Ca_kabuli_chr02	1767855	TT	CC	1946749323
SNP_P4_18025_1792551	NC_021161.1	Ca_kabuli_chr02	1792551	CC	TT	1946749325
SNP_P4_18026_1809752	NC_021161.1	Ca_kabuli_chr02	1809752	TT	GG	1946749327
SNP_P4_18033_1946863	NC_021161.1	Ca_kabuli_chr02	1946863	AA	CC	1946749329
SNP_P4_18034_1983395	NC_021161.1	Ca_kabuli_chr02	1983395	CC	AA	1946749331
SNP_P4_18035_1983421	NC_021161.1	Ca_kabuli_chr02	1983421	CC	TT	1946749333
SNP_P4_18037_2029525	NC_021161.1	Ca_kabuli_chr02	2029525	GG	AA	1946749335
SNP_P4_18038_2031558	NC_021161.1	Ca_kabuli_chr02	2031558	AA	TT	1946749337
SNP_P4_18039_2036381	NC_021161.1	Ca_kabuli_chr02	2036381	AA	GG	1946749339

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_18041_2060943	NC_021161.1	Ca_kabuli_chr02	2060943	TT	AA	1946749343
SNP_P4_18042_2072711	NC_021161.1	Ca_kabuli_chr02	2072711	TT	CC	1946749345
SNP_P4_18043_2072716	NC_021161.1	Ca_kabuli_chr02	2072716	TT	AA	1946749347
SNP_P4_18044_2073018	NC_021161.1	Ca_kabuli_chr02	2073018	AA	GG	1946749349
SNP_P4_18045_2073034	NC_021161.1	Ca_kabuli_chr02	2073034	AA	GG	1946749351
SNP_P4_18046_2073063	NC_021161.1	Ca_kabuli_chr02	2073063	GG	TT	1946749353
SNP_P4_18047_2078425	NC_021161.1	Ca_kabuli_chr02	2078425	GG	CC	1946749355
SNP_P4_18048_2078444	NC_021161.1	Ca_kabuli_chr02	2078444	AA	GG	1946749357
SNP_P4_18049_2078445	NC_021161.1	Ca_kabuli_chr02	2078445	TT	AA	1946749359
SNP_P4_18050_2078460	NC_021161.1	Ca_kabuli_chr02	2078460	TT	GG	1946749361
SNP_P4_18051_2078467	NC_021161.1	Ca_kabuli_chr02	2078467	AA	GG	1946749363
SNP_P4_18052_2078731	NC_021161.1	Ca_kabuli_chr02	2078731	CC	AA	1946749365
SNP_P4_18053_2153981	NC_021161.1	Ca_kabuli_chr02	2153981	TT	AA	1946749367
SNP_P4_18054_2155905	NC_021161.1	Ca_kabuli_chr02	2155905	AA	TT	1946749369
SNP_P4_18055_2156477	NC_021161.1	Ca_kabuli_chr02	2156477	AA	CC	1946749371
SNP_P4_18057_2169603	NC_021161.1	Ca_kabuli_chr02	2169603	GG	TT	1946749373
SNP_P4_18058_2169623	NC_021161.1	Ca_kabuli_chr02	2169623	TT	CC	1946749375
SNP_P4_18059_2169780	NC_021161.1	Ca_kabuli_chr02	2169780	TT	CC	1946749377
SNP_P4_18062_2186819	NC_021161.1	Ca_kabuli_chr02	2186819	CC	TT	1946749379
SNP_P4_18063_2225670	NC_021161.1	Ca_kabuli_chr02	2225670	TT	CC	1946749381
SNP_P4_18064_2234792	NC_021161.1	Ca_kabuli_chr02	2234792	GG	AA	1946749383
SNP_P4_18065_2241939	NC_021161.1	Ca_kabuli_chr02	2241939	CC	TT	1946749385
SNP_P4_18067_2312104	NC_021161.1	Ca_kabuli_chr02	2312104	CC	TT	1946749387
SNP_P4_18068_2320078	NC_021161.1	Ca_kabuli_chr02	2320078	AA	GG	1946749389
SNP_P4_18069_2321109	NC_021161.1	Ca_kabuli_chr02	2321109	GG	AA	1946749391
SNP_P4_18071_2326382	NC_021161.1	Ca_kabuli_chr02	2326382	TT	CC	1946749393
SNP_P4_18072_2338678	NC_021161.1	Ca_kabuli_chr02	2338678	AA	CC	1946749395
SNP_P4_18073_2339882	NC_021161.1	Ca_kabuli_chr02	2339882	TT	CC	1946749397
SNP_P4_18075_2355185	NC_021161.1	Ca_kabuli_chr02	2355185	AA	GG	1946749399
SNP_P4_18077_2369686	NC_021161.1	Ca_kabuli_chr02	2369686	TT	CC	1946749401
SNP_P4_18079_2374795	NC_021161.1	Ca_kabuli_chr02	2374795	CC	TT	1946749403
SNP_P4_18080_2377451	NC_021161.1	Ca_kabuli_chr02	2377451	CC	TT	1946749405
SNP_P4_18084_2389874	NC_021161.1	Ca_kabuli_chr02	2389874	CC	TT	1946749407
SNP_P4_18085_2394580	NC_021161.1	Ca_kabuli_chr02	2394580	TT	CC	1946749409
SNP_P4_18086_2433020	NC_021161.1	Ca_kabuli_chr02	2433020	CC	GG	1946749411
SNP_P4_18087_2433382	NC_021161.1	Ca_kabuli_chr02	2433382	GG	AA	1946749413
SNP_P4_18088_2481720	NC_021161.1	Ca_kabuli_chr02	2481720	CC	GG	1946749415
SNP_P4_18089_2481729	NC_021161.1	Ca_kabuli_chr02	2481729	CC	AA	1946749417
SNP_P4_18090_2497844	NC_021161.1	Ca_kabuli_chr02	2497844	TT	AA	1946749419
SNP_P4_18091_2497845	NC_021161.1	Ca_kabuli_chr02	2497845	AA	CC	1946749421
SNP_P4_18092_2499631	NC_021161.1	Ca_kabuli_chr02	2499631	TT	AA	1946749423

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_18094_2568155	NC_021161.1	Ca_kabuli_chr02	2568155	AA	GG	1946749427
SNP_P4_18095_2605300	NC_021161.1	Ca_kabuli_chr02	2605300	AA	GG	1946749429
SNP_P4_18097_2628676	NC_021161.1	Ca_kabuli_chr02	2628676	GG	TT	1946749431
SNP_P4_18099_2672825	NC_021161.1	Ca_kabuli_chr02	2672825	AA	GG	1946749433
SNP_P4_18100_2673200	NC_021161.1	Ca_kabuli_chr02	2673200	CC	TT	1946749435
SNP_P4_18101_2684278	NC_021161.1	Ca_kabuli_chr02	2684278	CC	TT	1946749437
SNP_P4_18103_2700783	NC_021161.1	Ca_kabuli_chr02	2700783	GG	TT	1946749439
SNP_P4_18104_2702342	NC_021161.1	Ca_kabuli_chr02	2702342	CC	TT	1946749441
SNP_P4_18106_2710291	NC_021161.1	Ca_kabuli_chr02	2710291	CC	TT	1946749443
SNP_P4_18108_2741360	NC_021161.1	Ca_kabuli_chr02	2741360	TT	AA	1946749445
SNP_P4_18109_2741373	NC_021161.1	Ca_kabuli_chr02	2741373	AA	TT	1946749447
SNP_P4_18110_2741375	NC_021161.1	Ca_kabuli_chr02	2741375	AA	TT	1946749449
SNP_P4_18112_2746198	NC_021161.1	Ca_kabuli_chr02	2746198	CC	TT	1946749451
SNP_P4_18113_2760922	NC_021161.1	Ca_kabuli_chr02	2760922	GG	AA	1946749453
SNP_P4_18114_2785852	NC_021161.1	Ca_kabuli_chr02	2785852	GG	AA	1946749456
SNP_P4_18115_2801785	NC_021161.1	Ca_kabuli_chr02	2801785	CC	TT	1946749458
SNP_P4_18116_2835568	NC_021161.1	Ca_kabuli_chr02	2835568	GG	AA	1946749460
SNP_P4_18117_2854535	NC_021161.1	Ca_kabuli_chr02	2854535	AA	GG	1946749462
SNP_P4_18118_2857049	NC_021161.1	Ca_kabuli_chr02	2857049	AA	TT	1946749464
SNP_P4_18119_2879541	NC_021161.1	Ca_kabuli_chr02	2879541	AA	GG	1946749466
SNP_P4_18121_2886782	NC_021161.1	Ca_kabuli_chr02	2886782	AA	GG	1946749468
SNP_P4_18122_2889270	NC_021161.1	Ca_kabuli_chr02	2889270	GG	AA	1946749470
SNP_P4_18123_2919159	NC_021161.1	Ca_kabuli_chr02	2919159	TT	GG	1946749472
SNP_P4_18124_2921467	NC_021161.1	Ca_kabuli_chr02	2921467	TT	CC	1946749474
SNP_P4_18125_2934659	NC_021161.1	Ca_kabuli_chr02	2934659	AA	GG	1946749476
SNP_P4_18126_2935058	NC_021161.1	Ca_kabuli_chr02	2935058	AA	TT	1946749478
SNP_P4_18127_2935191	NC_021161.1	Ca_kabuli_chr02	2935191	AA	GG	1946749480
SNP_P4_18128_2940776	NC_021161.1	Ca_kabuli_chr02	2940776	CC	TT	1946749482
SNP_P4_18129_2940778	NC_021161.1	Ca_kabuli_chr02	2940778	GG	AA	1946749484
SNP_P4_18130_2940896	NC_021161.1	Ca_kabuli_chr02	2940896	TT	CC	1946749486
SNP_P4_18132_2941151	NC_021161.1	Ca_kabuli_chr02	2941151	CC	AA	1946749488
SNP_P4_18133_2941304	NC_021161.1	Ca_kabuli_chr02	2941304	CC	AA	1946749489
SNP_P4_18134_2941365	NC_021161.1	Ca_kabuli_chr02	2941365	CC	AA	1946749491
SNP_P4_18135_2941557	NC_021161.1	Ca_kabuli_chr02	2941557	TT	CC	1946749493
SNP_P4_18136_2941609	NC_021161.1	Ca_kabuli_chr02	2941609	CC	TT	1946749495
SNP_P4_18137_2942928	NC_021161.1	Ca_kabuli_chr02	2942928	AA	GG	1946749497
SNP_P4_18138_2943122	NC_021161.1	Ca_kabuli_chr02	2943122	AA	TT	1946749499
SNP_P4_18139_2943420	NC_021161.1	Ca_kabuli_chr02	2943420	CC	TT	1946749501
SNP_P4_18140_2943432	NC_021161.1	Ca_kabuli_chr02	2943432	AA	CC	1946749503
SNP_P4_18141_2943463	NC_021161.1	Ca_kabuli_chr02	2943463	AA	CC	1946749505
SNP_P4_18142_2950321	NC_021161.1	Ca_kabuli_chr02	2950321	AA	CC	1946749507

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_18144_2950863	NC_021161.1	Ca_kabuli_chr02	2950863	AA	GG	1946749511
SNP_P4_18145_2950874	NC_021161.1	Ca_kabuli_chr02	2950874	AA	GG	1946749513
SNP_P4_18146_2950896	NC_021161.1	Ca_kabuli_chr02	2950896	TT	CC	1946749515
SNP_P4_18147_2950943	NC_021161.1	Ca_kabuli_chr02	2950943	TT	CC	1946749517
SNP_P4_18148_2951049	NC_021161.1	Ca_kabuli_chr02	2951049	TT	CC	1946749519
SNP_P4_18150_2960357	NC_021161.1	Ca_kabuli_chr02	2960357	GG	CC	1946749521
SNP_P4_18151_2960483	NC_021161.1	Ca_kabuli_chr02	2960483	CC	TT	1946749523
SNP_P4_18152_2964905	NC_021161.1	Ca_kabuli_chr02	2964905	CC	AA	1946749525
SNP_P4_18153_2974843	NC_021161.1	Ca_kabuli_chr02	2974843	AA	GG	1946749527
SNP_P4_18154_2975235	NC_021161.1	Ca_kabuli_chr02	2975235	GG	TT	1946749529
SNP_P4_18155_2975236	NC_021161.1	Ca_kabuli_chr02	2975236	CC	AA	1946749531
SNP_P4_18157_2975312	NC_021161.1	Ca_kabuli_chr02	2975312	AA	GG	1946749533
SNP_P4_18158_2979814	NC_021161.1	Ca_kabuli_chr02	2979814	TT	CC	1946749535
SNP_P4_18159_2979815	NC_021161.1	Ca_kabuli_chr02	2979815	CC	TT	1946749536
SNP_P4_18160_2979845	NC_021161.1	Ca_kabuli_chr02	2979845	GG	CC	1946749538
SNP_P4_18161_2980132	NC_021161.1	Ca_kabuli_chr02	2980132	CC	TT	1946749540
SNP_P4_18162_2980144	NC_021161.1	Ca_kabuli_chr02	2980144	AA	GG	1946749542
SNP_P4_18163_2980154	NC_021161.1	Ca_kabuli_chr02	2980154	GG	AA	1946749544
SNP_P4_18164_2980219	NC_021161.1	Ca_kabuli_chr02	2980219	TT	AA	1946749546
SNP_P4_18165_2980748	NC_021161.1	Ca_kabuli_chr02	2980748	AA	GG	1946749548
SNP_P4_18166_2980753	NC_021161.1	Ca_kabuli_chr02	2980753	TT	CC	1946749550
SNP_P4_18167_2980754	NC_021161.1	Ca_kabuli_chr02	2980754	AA	GG	1946749552
SNP_P4_18168_2980822	NC_021161.1	Ca_kabuli_chr02	2980822	CC	TT	1946749553
SNP_P4_18169_2980829	NC_021161.1	Ca_kabuli_chr02	2980829	TT	CC	1946749555
SNP_P4_18170_2980832	NC_021161.1	Ca_kabuli_chr02	2980832	TT	CC	1946749557
SNP_P4_18171_2980842	NC_021161.1	Ca_kabuli_chr02	2980842	TT	AA	1946749559
SNP_P4_18172_2980882	NC_021161.1	Ca_kabuli_chr02	2980882	AA	GG	1946749561
SNP_P4_18173_2981017	NC_021161.1	Ca_kabuli_chr02	2981017	TT	CC	1946749563
SNP_P4_18174_2981031	NC_021161.1	Ca_kabuli_chr02	2981031	GG	TT	1946749565
SNP_P4_18175_2981629	NC_021161.1	Ca_kabuli_chr02	2981629	TT	GG	1946749567
SNP_P4_18176_2982582	NC_021161.1	Ca_kabuli_chr02	2982582	GG	AA	1946749569
SNP_P4_18177_2982689	NC_021161.1	Ca_kabuli_chr02	2982689	AA	GG	1946749571
SNP_P4_18178_2982726	NC_021161.1	Ca_kabuli_chr02	2982726	GG	CC	1946749573
SNP_P4_18179_2982748	NC_021161.1	Ca_kabuli_chr02	2982748	GG	AA	1946749575
SNP_P4_18181_2982863	NC_021161.1	Ca_kabuli_chr02	2982863	TT	CC	1946749577
SNP_P4_18182_2983865	NC_021161.1	Ca_kabuli_chr02	2983865	AA	GG	1946749578
SNP_P4_18183_2984188	NC_021161.1	Ca_kabuli_chr02	2984188	AA	TT	1946749580
SNP_P4_18186_2985139	NC_021161.1	Ca_kabuli_chr02	2985139	CC	TT	1946749582
SNP_P4_18187_2985179	NC_021161.1	Ca_kabuli_chr02	2985179	AA	TT	1946749584
SNP_P4_18188_2985180	NC_021161.1	Ca_kabuli_chr02	2985180	AA	TT	1946749586
SNP_P4_18189_2985499	NC_021161.1	Ca_kabuli_chr02	2985499	GG	AA	1946749588

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_18191_2985894	NC_021161.1	Ca_kabuli_chr02	2985894	TT	CC	1946749592
SNP_P4_18192_2985919	NC_021161.1	Ca_kabuli_chr02	2985919	AA	CC	1946749594
SNP_P4_18193_2985967	NC_021161.1	Ca_kabuli_chr02	2985967	CC	TT	1946749596
SNP_P4_18194_2986021	NC_021161.1	Ca_kabuli_chr02	2986021	TT	CC	1946749598
SNP_P4_18195_2986233	NC_021161.1	Ca_kabuli_chr02	2986233	AA	TT	1946749600
SNP_P4_18196_2986244	NC_021161.1	Ca_kabuli_chr02	2986244	CC	TT	1946749601
SNP_P4_18197_2986258	NC_021161.1	Ca_kabuli_chr02	2986258	GG	AA	1946749603
SNP_P4_18198_2986389	NC_021161.1	Ca_kabuli_chr02	2986389	GG	AA	1946749605
SNP_P4_18199_2986397	NC_021161.1	Ca_kabuli_chr02	2986397	GG	AA	1946749607
SNP_P4_18200_2986416	NC_021161.1	Ca_kabuli_chr02	2986416	AA	GG	1946749609
SNP_P4_18201_2986606	NC_021161.1	Ca_kabuli_chr02	2986606	AA	TT	1946749611
SNP_P4_18202_2986645	NC_021161.1	Ca_kabuli_chr02	2986645	TT	AA	1946749613
SNP_P4_18203_2987779	NC_021161.1	Ca_kabuli_chr02	2987779	AA	TT	1946749615
SNP_P4_18204_2988410	NC_021161.1	Ca_kabuli_chr02	2988410	CC	TT	1946749617
SNP_P4_18205_2988414	NC_021161.1	Ca_kabuli_chr02	2988414	TT	AA	1946749619
SNP_P4_18206_2990096	NC_021161.1	Ca_kabuli_chr02	2990096	CC	TT	1946749621
SNP_P4_18207_2990671	NC_021161.1	Ca_kabuli_chr02	2990671	TT	CC	1946749623
SNP_P4_18208_2990773	NC_021161.1	Ca_kabuli_chr02	2990773	CC	TT	1946749625
SNP_P4_18209_2990794	NC_021161.1	Ca_kabuli_chr02	2990794	TT	CC	1946749627
SNP_P4_18210_2990811	NC_021161.1	Ca_kabuli_chr02	2990811	AA	TT	1946749629
SNP_P4_18211_2990883	NC_021161.1	Ca_kabuli_chr02	2990883	TT	CC	1946749631
SNP_P4_18212_2990923	NC_021161.1	Ca_kabuli_chr02	2990923	TT	CC	1946749633
SNP_P4_18213_2990929	NC_021161.1	Ca_kabuli_chr02	2990929	GG	TT	1946749635
SNP_P4_18214_2990935	NC_021161.1	Ca_kabuli_chr02	2990935	TT	CC	1946749637
SNP_P4_18215_2990951	NC_021161.1	Ca_kabuli_chr02	2990951	CC	TT	1946749638
SNP_P4_18216_2990989	NC_021161.1	Ca_kabuli_chr02	2990989	TT	AA	1946749640
SNP_P4_18217_2990995	NC_021161.1	Ca_kabuli_chr02	2990995	AA	TT	1946749642
SNP_P4_18218_2994000	NC_021161.1	Ca_kabuli_chr02	2994000	GG	AA	1946749644
SNP_P4_18219_2994935	NC_021161.1	Ca_kabuli_chr02	2994935	CC	AA	1946749646
SNP_P4_18220_2994969	NC_021161.1	Ca_kabuli_chr02	2994969	GG	AA	1946749648
SNP_P4_18222_2995981	NC_021161.1	Ca_kabuli_chr02	2995981	AA	GG	1946749650
SNP_P4_18223_2996031	NC_021161.1	Ca_kabuli_chr02	2996031	AA	GG	1946749652
SNP_P4_18224_2996162	NC_021161.1	Ca_kabuli_chr02	2996162	TT	CC	1946749654
SNP_P4_18226_2996194	NC_021161.1	Ca_kabuli_chr02	2996194	AA	TT	1946749656
SNP_P4_18227_2996217	NC_021161.1	Ca_kabuli_chr02	2996217	TT	AA	1946749658
SNP_P4_18229_2996606	NC_021161.1	Ca_kabuli_chr02	2996606	AA	CC	1946749660
SNP_P4_18231_2997641	NC_021161.1	Ca_kabuli_chr02	2997641	AA	GG	1946749662
SNP_P4_18232_2998285	NC_021161.1	Ca_kabuli_chr02	2998285	GG	AA	1946749664
SNP_P4_18233_2998290	NC_021161.1	Ca_kabuli_chr02	2998290	AA	GG	1946749666
SNP_P4_18234_2998291	NC_021161.1	Ca_kabuli_chr02	2998291	TT	AA	1946749668
SNP_P4_18235_2998301	NC_021161.1	Ca_kabuli_chr02	2998301	GG	AA	1946749670

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_18237_3000398	NC_021161.1	Ca_kabuli_chr02	3000398	AA	CC	1946749673
SNP_P4_18238_3000403	NC_021161.1	Ca_kabuli_chr02	3000403	CC	TT	1946749675
SNP_P4_18241_3000657	NC_021161.1	Ca_kabuli_chr02	3000657	AA	GG	1946749677
SNP_P4_18242_3000668	NC_021161.1	Ca_kabuli_chr02	3000668	CC	TT	1946749679
SNP_P4_18243_3002477	NC_021161.1	Ca_kabuli_chr02	3002477	AA	TT	1946749681
SNP_P4_18244_3002696	NC_021161.1	Ca_kabuli_chr02	3002696	AA	TT	1946749683
SNP_P4_18246_3002952	NC_021161.1	Ca_kabuli_chr02	3002952	TT	CC	1946749685
SNP_P4_18247_3003940	NC_021161.1	Ca_kabuli_chr02	3003940	CC	AA	1946749687
SNP_P4_18248_3004700	NC_021161.1	Ca_kabuli_chr02	3004700	CC	TT	1946749689
SNP_P4_18250_3005241	NC_021161.1	Ca_kabuli_chr02	3005241	GG	TT	1946749691
SNP_P4_18251_3005251	NC_021161.1	Ca_kabuli_chr02	3005251	AA	GG	1946749693
SNP_P4_18253_3005300	NC_021161.1	Ca_kabuli_chr02	3005300	GG	AA	1946749695
SNP_P4_18255_3005531	NC_021161.1	Ca_kabuli_chr02	3005531	TT	AA	1946749697
SNP_P4_18256_3005647	NC_021161.1	Ca_kabuli_chr02	3005647	CC	TT	1946749699
SNP_P4_18257_3005668	NC_021161.1	Ca_kabuli_chr02	3005668	GG	AA	1946749701
SNP_P4_18258_3005692	NC_021161.1	Ca_kabuli_chr02	3005692	CC	TT	1946749703
SNP_P4_18260_3005843	NC_021161.1	Ca_kabuli_chr02	3005843	AA	GG	1946749705
SNP_P4_18261_3006049	NC_021161.1	Ca_kabuli_chr02	3006049	CC	AA	1946749707
SNP_P4_18262_3007327	NC_021161.1	Ca_kabuli_chr02	3007327	CC	TT	1946749709
SNP_P4_18263_3007391	NC_021161.1	Ca_kabuli_chr02	3007391	GG	AA	1946749711
SNP_P4_18264_3008853	NC_021161.1	Ca_kabuli_chr02	3008853	CC	TT	1946749713
SNP_P4_18266_3009105	NC_021161.1	Ca_kabuli_chr02	3009105	AA	GG	1946749715
SNP_P4_18267_3009107	NC_021161.1	Ca_kabuli_chr02	3009107	GG	TT	1946749717
SNP_P4_18268_3013821	NC_021161.1	Ca_kabuli_chr02	3013821	CC	TT	1946749719
SNP_P4_18269_3014154	NC_021161.1	Ca_kabuli_chr02	3014154	CC	TT	1946749721
SNP_P4_18270_3014437	NC_021161.1	Ca_kabuli_chr02	3014437	AA	CC	1946749723
SNP_P4_18271_3014489	NC_021161.1	Ca_kabuli_chr02	3014489	GG	TT	1946749725
SNP_P4_18272_3014766	NC_021161.1	Ca_kabuli_chr02	3014766	AA	GG	1946749727
SNP_P4_18273_3015948	NC_021161.1	Ca_kabuli_chr02	3015948	TT	GG	1946749729
SNP_P4_18274_3016068	NC_021161.1	Ca_kabuli_chr02	3016068	TT	CC	1946749731
SNP_P4_18275_3016069	NC_021161.1	Ca_kabuli_chr02	3016069	CC	AA	1946749733
SNP_P4_18276_3016078	NC_021161.1	Ca_kabuli_chr02	3016078	TT	CC	1946749735
SNP_P4_18279_3018719	NC_021161.1	Ca_kabuli_chr02	3018719	GG	AA	1946749737
SNP_P4_18280_3018752	NC_021161.1	Ca_kabuli_chr02	3018752	AA	GG	1946749739
SNP_P4_18282_3019601	NC_021161.1	Ca_kabuli_chr02	3019601	TT	AA	1946749741
SNP_P4_18283_3019750	NC_021161.1	Ca_kabuli_chr02	3019750	GG	CC	1946749743
SNP_P4_18284_3019810	NC_021161.1	Ca_kabuli_chr02	3019810	AA	GG	1946749745
SNP_P4_18289_3022667	NC_021161.1	Ca_kabuli_chr02	3022667	TT	CC	1946749747
SNP_P4_18290_3022697	NC_021161.1	Ca_kabuli_chr02	3022697	GG	AA	1946749749
SNP_P4_18291_3023241	NC_021161.1	Ca_kabuli_chr02	3023241	GG	AA	1946749751
SNP_P4_18292_3023243	NC_021161.1	Ca_kabuli_chr02	3023243	AA	GG	1946749753

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_18294_3024022	NC_021161.1	Ca_kabuli_chr02	3024022	AA	TT	1946749757
SNP_P4_18295_3024395	NC_021161.1	Ca_kabuli_chr02	3024395	AA	GG	1946749759
SNP_P4_18296_3024602	NC_021161.1	Ca_kabuli_chr02	3024602	AA	TT	1946749761
SNP_P4_18297_3024615	NC_021161.1	Ca_kabuli_chr02	3024615	AA	GG	1946749763
SNP_P4_18298_3025311	NC_021161.1	Ca_kabuli_chr02	3025311	TT	CC	1946749765
SNP_P4_18299_3025427	NC_021161.1	Ca_kabuli_chr02	3025427	AA	GG	1946749767
SNP_P4_18300_3025431	NC_021161.1	Ca_kabuli_chr02	3025431	GG	AA	1946749769
SNP_P4_18301_3025438	NC_021161.1	Ca_kabuli_chr02	3025438	AA	GG	1946749771
SNP_P4_18302_3025450	NC_021161.1	Ca_kabuli_chr02	3025450	TT	CC	1946749773
SNP_P4_18303_3025502	NC_021161.1	Ca_kabuli_chr02	3025502	CC	TT	1946749775
SNP_P4_18304_3025533	NC_021161.1	Ca_kabuli_chr02	3025533	AA	GG	1946749777
SNP_P4_18306_3025626	NC_021161.1	Ca_kabuli_chr02	3025626	AA	TT	1946749779
SNP_P4_18307_3025667	NC_021161.1	Ca_kabuli_chr02	3025667	TT	CC	1946749781
SNP_P4_18308_3025801	NC_021161.1	Ca_kabuli_chr02	3025801	AA	GG	1946749783
SNP_P4_18309_3025844	NC_021161.1	Ca_kabuli_chr02	3025844	TT	CC	1946749785
SNP_P4_18310_3025867	NC_021161.1	Ca_kabuli_chr02	3025867	CC	TT	1946749787
SNP_P4_18311_3025891	NC_021161.1	Ca_kabuli_chr02	3025891	CC	TT	1946749789
SNP_P4_18312_3025905	NC_021161.1	Ca_kabuli_chr02	3025905	AA	GG	1946749791
SNP_P4_18313_3026248	NC_021161.1	Ca_kabuli_chr02	3026248	AA	GG	1946749793
SNP_P4_18314_3026315	NC_021161.1	Ca_kabuli_chr02	3026315	AA	CC	1946749795
SNP_P4_18315_3026635	NC_021161.1	Ca_kabuli_chr02	3026635	TT	GG	1946749797
SNP_P4_18316_3026636	NC_021161.1	Ca_kabuli_chr02	3026636	AA	GG	1946749799
SNP_P4_18317_3026654	NC_021161.1	Ca_kabuli_chr02	3026654	TT	AA	1946749801
SNP_P4_18318_3026656	NC_021161.1	Ca_kabuli_chr02	3026656	AA	TT	1946749803
SNP_P4_18319_3026947	NC_021161.1	Ca_kabuli_chr02	3026947	GG	AA	1946749806
SNP_P4_18320_3027062	NC_021161.1	Ca_kabuli_chr02	3027062	CC	TT	1946749808
SNP_P4_18321_3027999	NC_021161.1	Ca_kabuli_chr02	3027999	AA	GG	1946749810
SNP_P4_18322_3028055	NC_021161.1	Ca_kabuli_chr02	3028055	CC	TT	1946749812
SNP_P4_18324_3028809	NC_021161.1	Ca_kabuli_chr02	3028809	TT	CC	1946749814
SNP_P4_18325_3028810	NC_021161.1	Ca_kabuli_chr02	3028810	TT	CC	1946749816
SNP_P4_18326_3029066	NC_021161.1	Ca_kabuli_chr02	3029066	CC	TT	1946749818
SNP_P4_18327_3029068	NC_021161.1	Ca_kabuli_chr02	3029068	GG	CC	1946749820
SNP_P4_18328_3029479	NC_021161.1	Ca_kabuli_chr02	3029479	AA	TT	1946749822
SNP_P4_18331_3029612	NC_021161.1	Ca_kabuli_chr02	3029612	AA	GG	1946749824
SNP_P4_18332_3029755	NC_021161.1	Ca_kabuli_chr02	3029755	GG	AA	1946749825
SNP_P4_18333_3029781	NC_021161.1	Ca_kabuli_chr02	3029781	TT	CC	1946749827
SNP_P4_18334_3029821	NC_021161.1	Ca_kabuli_chr02	3029821	AA	GG	1946749829
SNP_P4_18335_3031031	NC_021161.1	Ca_kabuli_chr02	3031031	CC	TT	1946749831
SNP_P4_18336_3031036	NC_021161.1	Ca_kabuli_chr02	3031036	AA	CC	1946749833
SNP_P4_18337_3031049	NC_021161.1	Ca_kabuli_chr02	3031049	AA	GG	1946749835
SNP_P4_18338_3031083	NC_021161.1	Ca_kabuli_chr02	3031083	GG	AA	1946749837

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_18339_3031173	NC_021161.1	Ca_kabuli_chr02	3031173	GG	AA	1946749839
SNP_P4_18340_3031197	NC_021161.1	Ca_kabuli_chr02	3031197	GG	CC	1946749841
SNP_P4_18341_3031215	NC_021161.1	Ca_kabuli_chr02	3031215	CC	TT	1946749843
SNP_P4_18343_3031550	NC_021161.1	Ca_kabuli_chr02	3031550	AA	TT	1946749845
SNP_P4_18345_3031697	NC_021161.1	Ca_kabuli_chr02	3031697	AA	GG	1946749847
SNP_P4_18346_3031726	NC_021161.1	Ca_kabuli_chr02	3031726	GG	AA	1946749849
SNP_P4_18348_3031993	NC_021161.1	Ca_kabuli_chr02	3031993	TT	CC	1946749851
SNP_P4_18350_3033169	NC_021161.1	Ca_kabuli_chr02	3033169	AA	TT	1946749853
SNP_P4_18354_3033335	NC_021161.1	Ca_kabuli_chr02	3033335	AA	CC	1946749855
SNP_P4_18356_3033762	NC_021161.1	Ca_kabuli_chr02	3033762	AA	GG	1946749857
SNP_P4_18357_3034768	NC_021161.1	Ca_kabuli_chr02	3034768	GG	TT	1946749859
SNP_P4_18358_3035090	NC_021161.1	Ca_kabuli_chr02	3035090	TT	CC	1946749861
SNP_P4_18359_3037919	NC_021161.1	Ca_kabuli_chr02	3037919	AA	TT	1946749863
SNP_P4_18360_3039334	NC_021161.1	Ca_kabuli_chr02	3039334	CC	TT	1946749865
SNP_P4_18361_3041805	NC_021161.1	Ca_kabuli_chr02	3041805	AA	CC	1946749867
SNP_P4_18362_3041858	NC_021161.1	Ca_kabuli_chr02	3041858	GG	TT	1946749869
SNP_P4_18363_3041877	NC_021161.1	Ca_kabuli_chr02	3041877	TT	CC	1946749871
SNP_P4_18364_3041980	NC_021161.1	Ca_kabuli_chr02	3041980	AA	GG	1946749873
SNP_P4_18365_3042020	NC_021161.1	Ca_kabuli_chr02	3042020	CC	TT	1946749875
SNP_P4_18367_3042190	NC_021161.1	Ca_kabuli_chr02	3042190	GG	AA	1946749877
SNP_P4_18368_3044827	NC_021161.1	Ca_kabuli_chr02	3044827	AA	GG	1946749879
SNP_P4_18369_3045020	NC_021161.1	Ca_kabuli_chr02	3045020	TT	AA	1946749881
SNP_P4_18370_3045098	NC_021161.1	Ca_kabuli_chr02	3045098	AA	GG	1946749883
SNP_P4_18372_3045486	NC_021161.1	Ca_kabuli_chr02	3045486	AA	GG	1946749885
SNP_P4_18373_3046030	NC_021161.1	Ca_kabuli_chr02	3046030	AA	CC	1946749887
SNP_P4_18375_3047371	NC_021161.1	Ca_kabuli_chr02	3047371	AA	TT	1946749889
SNP_P4_18376_3047449	NC_021161.1	Ca_kabuli_chr02	3047449	AA	GG	1946749891
SNP_P4_18377_3049334	NC_021161.1	Ca_kabuli_chr02	3049334	AA	GG	1946749893
SNP_P4_18378_3049345	NC_021161.1	Ca_kabuli_chr02	3049345	CC	GG	1946749895
SNP_P4_18380_3050194	NC_021161.1	Ca_kabuli_chr02	3050194	TT	CC	1946749897
SNP_P4_18381_3050198	NC_021161.1	Ca_kabuli_chr02	3050198	AA	GG	1946749899
SNP_P4_18382_3050202	NC_021161.1	Ca_kabuli_chr02	3050202	CC	TT	1946749901
SNP_P4_18383_3050205	NC_021161.1	Ca_kabuli_chr02	3050205	CC	TT	1946749903
SNP_P4_18384_3050210	NC_021161.1	Ca_kabuli_chr02	3050210	CC	TT	1946749905
SNP_P4_18385_3050250	NC_021161.1	Ca_kabuli_chr02	3050250	AA	CC	1946749907
SNP_P4_18386_3076812	NC_021161.1	Ca_kabuli_chr02	3076812	GG	CC	1946749909
SNP_P4_18387_3076822	NC_021161.1	Ca_kabuli_chr02	3076822	CC	GG	1946749911
SNP_P4_18389_3077346	NC_021161.1	Ca_kabuli_chr02	3077346	GG	AA	1946749913
SNP_P4_18391_3078105	NC_021161.1	Ca_kabuli_chr02	3078105	CC	AA	1946749915
SNP_P4_18395_3225852	NC_021161.1	Ca_kabuli_chr02	3225852	GG	AA	1946749917
SNP_P4_18396_3230379	NC_021161.1	Ca_kabuli_chr02	3230379	TT	CC	1946749919
SNP_P4_18398_3235524	NC_021161.1	Ca_kabuli_chr02	3235524	TT	CC	1946749921

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_18401_3251601	NC_021161.1	Ca_kabuli_chr02	3251601	GG	AA	1946749925
SNP_P4_18402_3283404	NC_021161.1	Ca_kabuli_chr02	3283404	TT	AA	1946749927
SNP_P4_18403_3283408	NC_021161.1	Ca_kabuli_chr02	3283408	TT	CC	1946749929
SNP_P4_18404_3295581	NC_021161.1	Ca_kabuli_chr02	3295581	AA	GG	1946749931
SNP_P4_18406_3312383	NC_021161.1	Ca_kabuli_chr02	3312383	AA	GG	1946749933
SNP_P4_18407_3312485	NC_021161.1	Ca_kabuli_chr02	3312485	TT	CC	1946749935
SNP_P4_18408_3312492	NC_021161.1	Ca_kabuli_chr02	3312492	GG	TT	1946749937
SNP_P4_18409_3312504	NC_021161.1	Ca_kabuli_chr02	3312504	TT	AA	1946749939
SNP_P4_18410_3362784	NC_021161.1	Ca_kabuli_chr02	3362784	GG	AA	1946749940
SNP_P4_18411_3384438	NC_021161.1	Ca_kabuli_chr02	3384438	GG	TT	1946749942
SNP_P4_18412_3387908	NC_021161.1	Ca_kabuli_chr02	3387908	GG	CC	1946749944
SNP_P4_18414_3403994	NC_021161.1	Ca_kabuli_chr02	3403994	TT	CC	1946749946
SNP_P4_18415_3411351	NC_021161.1	Ca_kabuli_chr02	3411351	TT	CC	1946749948
SNP_P4_18416_3412976	NC_021161.1	Ca_kabuli_chr02	3412976	TT	CC	1946749950
SNP_P4_18417_3424690	NC_021161.1	Ca_kabuli_chr02	3424690	TT	AA	1946749952
SNP_P4_18418_3454239	NC_021161.1	Ca_kabuli_chr02	3454239	AA	TT	1946749954
SNP_P4_18419_3454262	NC_021161.1	Ca_kabuli_chr02	3454262	TT	CC	1946749956
SNP_P4_18420_3464758	NC_021161.1	Ca_kabuli_chr02	3464758	TT	CC	1946749958
SNP_P4_18421_3464830	NC_021161.1	Ca_kabuli_chr02	3464830	GG	AA	1946749960
SNP_P4_18422_3465184	NC_021161.1	Ca_kabuli_chr02	3465184	TT	CC	1946749962
SNP_P4_18423_3465368	NC_021161.1	Ca_kabuli_chr02	3465368	TT	CC	1946749964
SNP_P4_18424_3465370	NC_021161.1	Ca_kabuli_chr02	3465370	CC	TT	1946749966
SNP_P4_18425_3465379	NC_021161.1	Ca_kabuli_chr02	3465379	GG	AA	1946749968
SNP_P4_18426_3465395	NC_021161.1	Ca_kabuli_chr02	3465395	CC	AA	1946749970
SNP_P4_18427_3465396	NC_021161.1	Ca_kabuli_chr02	3465396	GG	CC	1946749972
SNP_P4_18428_3465547	NC_021161.1	Ca_kabuli_chr02	3465547	AA	CC	1946749974
SNP_P4_18429_3501817	NC_021161.1	Ca_kabuli_chr02	3501817	AA	TT	1946749976
SNP_P4_18430_3532699	NC_021161.1	Ca_kabuli_chr02	3532699	AA	GG	1946749978
SNP_P4_18431_3577333	NC_021161.1	Ca_kabuli_chr02	3577333	TT	CC	1946749980
SNP_P4_18432_3577335	NC_021161.1	Ca_kabuli_chr02	3577335	TT	GG	1946749981
SNP_P4_18433_3591955	NC_021161.1	Ca_kabuli_chr02	3591955	CC	TT	1946749983
SNP_P4_18434_3664001	NC_021161.1	Ca_kabuli_chr02	3664001	AA	GG	1946749985
SNP_P4_18435_3667385	NC_021161.1	Ca_kabuli_chr02	3667385	AA	TT	1946749987
SNP_P4_18436_3681624	NC_021161.1	Ca_kabuli_chr02	3681624	CC	GG	1946749990
SNP_P4_18438_3723075	NC_021161.1	Ca_kabuli_chr02	3723075	CC	AA	1946749992
SNP_P4_18439_3724991	NC_021161.1	Ca_kabuli_chr02	3724991	TT	CC	1946749994
SNP_P4_18441_3728639	NC_021161.1	Ca_kabuli_chr02	3728639	TT	CC	1946749996
SNP_P4_18443_3764992	NC_021161.1	Ca_kabuli_chr02	3764992	GG	TT	1946749998
SNP_P4_18444_3787731	NC_021161.1	Ca_kabuli_chr02	3787731	GG	AA	1946750000
SNP_P4_18445_3790258	NC_021161.1	Ca_kabuli_chr02	3790258	GG	AA	1946750002
SNP_P4_18446_3790291	NC_021161.1	Ca_kabuli_chr02	3790291	TT	AA	1946750004

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_18450_3878673	NC_021161.1	Ca_kabuli_chr02	3878673	CC	TT	1946750008
SNP_P4_18451_3882120	NC_021161.1	Ca_kabuli_chr02	3882120	CC	TT	1946750010
SNP_P4_18453_3901632	NC_021161.1	Ca_kabuli_chr02	3901632	AA	GG	1946750011
SNP_P4_18454_3901640	NC_021161.1	Ca_kabuli_chr02	3901640	TT	CC	1946750013
SNP_P4_18455_3901712	NC_021161.1	Ca_kabuli_chr02	3901712	AA	CC	1946750015
SNP_P4_18456_3901717	NC_021161.1	Ca_kabuli_chr02	3901717	TT	GG	1946750017
SNP_P4_18457_3901729	NC_021161.1	Ca_kabuli_chr02	3901729	CC	AA	1946750019
SNP_P4_18459_3901917	NC_021161.1	Ca_kabuli_chr02	3901917	GG	AA	1946750021
SNP_P4_18460_3901918	NC_021161.1	Ca_kabuli_chr02	3901918	TT	GG	1946750023
SNP_P4_18462_3941327	NC_021161.1	Ca_kabuli_chr02	3941327	CC	AA	1946750025
SNP_P4_18463_3941333	NC_021161.1	Ca_kabuli_chr02	3941333	GG	CC	1946750027
SNP_P4_18465_3950431	NC_021161.1	Ca_kabuli_chr02	3950431	CC	TT	1946750029
SNP_P4_18467_3965082	NC_021161.1	Ca_kabuli_chr02	3965082	TT	CC	1946750030
SNP_P4_18468_4012541	NC_021161.1	Ca_kabuli_chr02	4012541	GG	AA	1946750032
SNP_P4_18469_4022300	NC_021161.1	Ca_kabuli_chr02	4022300	CC	TT	1946750034
SNP_P4_18472_4069582	NC_021161.1	Ca_kabuli_chr02	4069582	AA	GG	1946750036
SNP_P4_18473_4070901	NC_021161.1	Ca_kabuli_chr02	4070901	TT	CC	1946750038
SNP_P4_18474_4130435	NC_021161.1	Ca_kabuli_chr02	4130435	CC	TT	1946750040
SNP_P4_18475_4130561	NC_021161.1	Ca_kabuli_chr02	4130561	CC	TT	1946750042
SNP_P4_18476_4156064	NC_021161.1	Ca_kabuli_chr02	4156064	AA	GG	1946750044
SNP_P4_18477_4163297	NC_021161.1	Ca_kabuli_chr02	4163297	GG	AA	1946750046
SNP_P4_18478_4171591	NC_021161.1	Ca_kabuli_chr02	4171591	GG	AA	1946750048
SNP_P4_18479_4186706	NC_021161.1	Ca_kabuli_chr02	4186706	AA	GG	1946750049
SNP_P4_18480_4192094	NC_021161.1	Ca_kabuli_chr02	4192094	AA	TT	1946750051
SNP_P4_18481_4192331	NC_021161.1	Ca_kabuli_chr02	4192331	CC	TT	1946750053
SNP_P4_18482_4192590	NC_021161.1	Ca_kabuli_chr02	4192590	GG	AA	1946750055
SNP_P4_18483_4192625	NC_021161.1	Ca_kabuli_chr02	4192625	CC	AA	1946750057
SNP_P4_18484_4192693	NC_021161.1	Ca_kabuli_chr02	4192693	AA	CC	1946750059
SNP_P4_18485_4199515	NC_021161.1	Ca_kabuli_chr02	4199515	AA	GG	1946750061
SNP_P4_18488_4239436	NC_021161.1	Ca_kabuli_chr02	4239436	GG	TT	1946750063
SNP_P4_18489_4242997	NC_021161.1	Ca_kabuli_chr02	4242997	CC	TT	1946750065
SNP_P4_18490_4243037	NC_021161.1	Ca_kabuli_chr02	4243037	GG	TT	1946750067
SNP_P4_18491_4243057	NC_021161.1	Ca_kabuli_chr02	4243057	GG	TT	1946750069
SNP_P4_18492_4253165	NC_021161.1	Ca_kabuli_chr02	4253165	GG	AA	1946750071
SNP_P4_18493_4253175	NC_021161.1	Ca_kabuli_chr02	4253175	AA	GG	1946750073
SNP_P4_18494_4253384	NC_021161.1	Ca_kabuli_chr02	4253384	TT	AA	1946750075
SNP_P4_18496_4268161	NC_021161.1	Ca_kabuli_chr02	4268161	TT	CC	1946750077
SNP_P4_18497_4268187	NC_021161.1	Ca_kabuli_chr02	4268187	CC	TT	1946750079
SNP_P4_18498_4268225	NC_021161.1	Ca_kabuli_chr02	4268225	TT	CC	1946750081
SNP_P4_18499_4268241	NC_021161.1	Ca_kabuli_chr02	4268241	GG	CC	1946750083
SNP_P4_18500_4277749	NC_021161.1	Ca_kabuli_chr02	4277749	CC	TT	1946750085

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_18502_4277755	NC_021161.1	Ca_kabuli_chr02	4277755	GG	TT	1946750089
SNP_P4_18503_4277776	NC_021161.1	Ca_kabuli_chr02	4277776	AA	GG	1946750091
SNP_P4_18504_4277777	NC_021161.1	Ca_kabuli_chr02	4277777	TT	GG	1946750093
SNP_P4_18505_4277908	NC_021161.1	Ca_kabuli_chr02	4277908	AA	CC	1946750095
SNP_P4_18506_4277915	NC_021161.1	Ca_kabuli_chr02	4277915	GG	TT	1946750097
SNP_P4_18507_4277948	NC_021161.1	Ca_kabuli_chr02	4277948	GG	AA	1946750099
SNP_P4_18508_4278175	NC_021161.1	Ca_kabuli_chr02	4278175	TT	CC	1946750101
SNP_P4_18509_4278192	NC_021161.1	Ca_kabuli_chr02	4278192	AA	GG	1946750103
SNP_P4_18510_4278200	NC_021161.1	Ca_kabuli_chr02	4278200	AA	GG	1946750105
SNP_P4_18511_4278253	NC_021161.1	Ca_kabuli_chr02	4278253	TT	CC	1946750107
SNP_P4_18512_4278298	NC_021161.1	Ca_kabuli_chr02	4278298	AA	GG	1946750109
SNP_P4_18513_4284997	NC_021161.1	Ca_kabuli_chr02	4284997	GG	AA	1946750111
SNP_P4_18514_4285002	NC_021161.1	Ca_kabuli_chr02	4285002	AA	CC	1946750113
SNP_P4_18515_4285004	NC_021161.1	Ca_kabuli_chr02	4285004	CC	AA	1946750115
SNP_P4_18516_4285011	NC_021161.1	Ca_kabuli_chr02	4285011	AA	GG	1946750117
SNP_P4_18518_4286414	NC_021161.1	Ca_kabuli_chr02	4286414	TT	CC	1946750119
SNP_P4_18519_4315229	NC_021161.1	Ca_kabuli_chr02	4315229	AA	TT	1946750121
SNP_P4_18520_4342004	NC_021161.1	Ca_kabuli_chr02	4342004	GG	TT	1946750123
SNP_P4_18521_4342011	NC_021161.1	Ca_kabuli_chr02	4342011	AA	TT	1946750125
SNP_P4_18522_4342027	NC_021161.1	Ca_kabuli_chr02	4342027	GG	CC	1946750127
SNP_P4_18523_4342031	NC_021161.1	Ca_kabuli_chr02	4342031	CC	TT	1946750129
SNP_P4_18524_4342037	NC_021161.1	Ca_kabuli_chr02	4342037	TT	CC	1946750131
SNP_P4_18525_4342041	NC_021161.1	Ca_kabuli_chr02	4342041	CC	GG	1946750133
SNP_P4_18526_4342043	NC_021161.1	Ca_kabuli_chr02	4342043	AA	GG	1946750135
SNP_P4_18527_4342055	NC_021161.1	Ca_kabuli_chr02	4342055	CC	TT	1946750137
SNP_P4_18528_4344672	NC_021161.1	Ca_kabuli_chr02	4344672	AA	TT	1946750139
SNP_P4_18529_4344675	NC_021161.1	Ca_kabuli_chr02	4344675	AA	TT	1946750141
SNP_P4_18530_4345068	NC_021161.1	Ca_kabuli_chr02	4345068	TT	CC	1946750143
SNP_P4_18531_4358424	NC_021161.1	Ca_kabuli_chr02	4358424	CC	TT	1946750145
SNP_P4_18533_4384469	NC_021161.1	Ca_kabuli_chr02	4384469	TT	GG	1946750147
SNP_P4_18534_4410842	NC_021161.1	Ca_kabuli_chr02	4410842	TT	CC	1946750149
SNP_P4_18535_4437009	NC_021161.1	Ca_kabuli_chr02	4437009	GG	TT	1946750151
SNP_P4_18536_4449356	NC_021161.1	Ca_kabuli_chr02	4449356	GG	AA	1946750153
SNP_P4_18537_4450985	NC_021161.1	Ca_kabuli_chr02	4450985	AA	GG	1946750155
SNP_P4_18538_4460126	NC_021161.1	Ca_kabuli_chr02	4460126	TT	CC	1946750157
SNP_P4_18539_4460524	NC_021161.1	Ca_kabuli_chr02	4460524	GG	AA	1946750159
SNP_P4_18541_4502063	NC_021161.1	Ca_kabuli_chr02	4502063	TT	GG	1946750161
SNP_P4_18542_4502067	NC_021161.1	Ca_kabuli_chr02	4502067	TT	GG	1946750163
SNP_P4_18543_4517083	NC_021161.1	Ca_kabuli_chr02	4517083	AA	GG	1946750165
SNP_P4_18545_4542625	NC_021161.1	Ca_kabuli_chr02	4542625	AA	GG	1946750167
SNP_P4_18546_4549766	NC_021161.1	Ca_kabuli_chr02	4549766	AA	CC	1946750169

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_18548_4550633	NC_021161.1	Ca_kabuli_chr02	4550633	AA	GG	1946750173
SNP_P4_18549_4551277	NC_021161.1	Ca_kabuli_chr02	4551277	TT	AA	1946750175
SNP_P4_18550_4551279	NC_021161.1	Ca_kabuli_chr02	4551279	TT	GG	1946750177
SNP_P4_18551_4556638	NC_021161.1	Ca_kabuli_chr02	4556638	TT	GG	1946750179
SNP_P4_18553_4557347	NC_021161.1	Ca_kabuli_chr02	4557347	CC	TT	1946750181
SNP_P4_18554_4557481	NC_021161.1	Ca_kabuli_chr02	4557481	TT	CC	1946750183
SNP_P4_18555_4557484	NC_021161.1	Ca_kabuli_chr02	4557484	TT	GG	1946750185
SNP_P4_18556_4569684	NC_021161.1	Ca_kabuli_chr02	4569684	AA	GG	1946750187
SNP_P4_18557_4590204	NC_021161.1	Ca_kabuli_chr02	4590204	GG	AA	1946750189
SNP_P4_18558_4594128	NC_021161.1	Ca_kabuli_chr02	4594128	CC	TT	1946750191
SNP_P4_18559_4620728	NC_021161.1	Ca_kabuli_chr02	4620728	GG	AA	1946750193
SNP_P4_18560_4620809	NC_021161.1	Ca_kabuli_chr02	4620809	AA	TT	1946750195
SNP_P4_18561_4621090	NC_021161.1	Ca_kabuli_chr02	4621090	TT	CC	1946750197
SNP_P4_18566_4671081	NC_021161.1	Ca_kabuli_chr02	4671081	GG	TT	1946750199
SNP_P4_18567_4671103	NC_021161.1	Ca_kabuli_chr02	4671103	TT	GG	1946750201
SNP_P4_18568_4671112	NC_021161.1	Ca_kabuli_chr02	4671112	GG	AA	1946750203
SNP_P4_18569_4677963	NC_021161.1	Ca_kabuli_chr02	4677963	AA	GG	1946750205
SNP_P4_18570_4677999	NC_021161.1	Ca_kabuli_chr02	4677999	CC	TT	1946750207
SNP_P4_18571_4678270	NC_021161.1	Ca_kabuli_chr02	4678270	CC	TT	1946750209
SNP_P4_18572_4678358	NC_021161.1	Ca_kabuli_chr02	4678358	CC	TT	1946750211
SNP_P4_18573_4731884	NC_021161.1	Ca_kabuli_chr02	4731884	AA	CC	1946750213
SNP_P4_18574_4732318	NC_021161.1	Ca_kabuli_chr02	4732318	TT	CC	1946750215
SNP_P4_18575_4746281	NC_021161.1	Ca_kabuli_chr02	4746281	GG	AA	1946750217
SNP_P4_18576_4747812	NC_021161.1	Ca_kabuli_chr02	4747812	AA	TT	1946750219
SNP_P4_18577_4766082	NC_021161.1	Ca_kabuli_chr02	4766082	CC	TT	1946750221
SNP_P4_18578_4766098	NC_021161.1	Ca_kabuli_chr02	4766098	AA	GG	1946750223
SNP_P4_18579_4766239	NC_021161.1	Ca_kabuli_chr02	4766239	TT	CC	1946750225
SNP_P4_18580_4766442	NC_021161.1	Ca_kabuli_chr02	4766442	CC	GG	1946750227
SNP_P4_18581_4766466	NC_021161.1	Ca_kabuli_chr02	4766466	TT	CC	1946750228
SNP_P4_18582_4766512	NC_021161.1	Ca_kabuli_chr02	4766512	CC	TT	1946750230
SNP_P4_18583_4766516	NC_021161.1	Ca_kabuli_chr02	4766516	TT	CC	1946750232
SNP_P4_18584_4766533	NC_021161.1	Ca_kabuli_chr02	4766533	GG	AA	1946750234
SNP_P4_18585_4766566	NC_021161.1	Ca_kabuli_chr02	4766566	TT	AA	1946750236
SNP_P4_18586_4767130	NC_021161.1	Ca_kabuli_chr02	4767130	CC	TT	1946750238
SNP_P4_18587_4767165	NC_021161.1	Ca_kabuli_chr02	4767165	AA	CC	1946750240
SNP_P4_18589_4805041	NC_021161.1	Ca_kabuli_chr02	4805041	CC	TT	1946750242
SNP_P4_18590_4812595	NC_021161.1	Ca_kabuli_chr02	4812595	CC	TT	1946750244
SNP_P4_18591_4812788	NC_021161.1	Ca_kabuli_chr02	4812788	AA	GG	1946750246
SNP_P4_18592_4812851	NC_021161.1	Ca_kabuli_chr02	4812851	CC	TT	1946750248
SNP_P4_18594_4812911	NC_021161.1	Ca_kabuli_chr02	4812911	TT	CC	1946750250
SNP_P4_18595_4812950	NC_021161.1	Ca_kabuli_chr02	4812950	GG	TT	1946750252

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_18597_4812979	NC_021161.1	Ca_kabuli_chr02	4812979	GG	AA	1946750256
SNP_P4_18598_4813128	NC_021161.1	Ca_kabuli_chr02	4813128	AA	GG	1946750257
SNP_P4_18599_4813151	NC_021161.1	Ca_kabuli_chr02	4813151	AA	TT	1946750259
SNP_P4_18600_4813161	NC_021161.1	Ca_kabuli_chr02	4813161	GG	AA	1946750261
SNP_P4_18601_4813168	NC_021161.1	Ca_kabuli_chr02	4813168	CC	TT	1946750263
SNP_P4_18602_4813172	NC_021161.1	Ca_kabuli_chr02	4813172	AA	GG	1946750265
SNP_P4_18603_4813225	NC_021161.1	Ca_kabuli_chr02	4813225	GG	AA	1946750267
SNP_P4_18604_4813273	NC_021161.1	Ca_kabuli_chr02	4813273	AA	GG	1946750269
SNP_P4_18605_4819571	NC_021161.1	Ca_kabuli_chr02	4819571	CC	TT	1946750271
SNP_P4_18606_4825637	NC_021161.1	Ca_kabuli_chr02	4825637	AA	GG	1946750273
SNP_P4_18607_4829772	NC_021161.1	Ca_kabuli_chr02	4829772	TT	CC	1946750275
SNP_P4_18608_4840871	NC_021161.1	Ca_kabuli_chr02	4840871	CC	TT	1946750277
SNP_P4_18610_4873015	NC_021161.1	Ca_kabuli_chr02	4873015	GG	AA	1946750279
SNP_P4_18611_4890866	NC_021161.1	Ca_kabuli_chr02	4890866	GG	TT	1946750281
SNP_P4_18612_4890869	NC_021161.1	Ca_kabuli_chr02	4890869	TT	GG	1946750283
SNP_P4_18613_4890929	NC_021161.1	Ca_kabuli_chr02	4890929	AA	CC	1946750285
SNP_P4_18614_4890940	NC_021161.1	Ca_kabuli_chr02	4890940	AA	TT	1946750287
SNP_P4_18615_4890996	NC_021161.1	Ca_kabuli_chr02	4890996	GG	AA	1946750289
SNP_P4_18618_4891402	NC_021161.1	Ca_kabuli_chr02	4891402	GG	AA	1946750291
SNP_P4_18619_4891487	NC_021161.1	Ca_kabuli_chr02	4891487	AA	GG	1946750293
SNP_P4_18620_4892429	NC_021161.1	Ca_kabuli_chr02	4892429	CC	TT	1946750295
SNP_P4_18621_4892489	NC_021161.1	Ca_kabuli_chr02	4892489	AA	CC	1946750297
SNP_P4_18622_4892541	NC_021161.1	Ca_kabuli_chr02	4892541	TT	AA	1946750299
SNP_P4_18623_4892639	NC_021161.1	Ca_kabuli_chr02	4892639	GG	AA	1946750301
SNP_P4_18625_4892894	NC_021161.1	Ca_kabuli_chr02	4892894	AA	TT	1946750303
SNP_P4_18626_4893002	NC_021161.1	Ca_kabuli_chr02	4893002	TT	GG	1946750304
SNP_P4_18627_4893011	NC_021161.1	Ca_kabuli_chr02	4893011	CC	TT	1946750306
SNP_P4_18628_4893117	NC_021161.1	Ca_kabuli_chr02	4893117	GG	AA	1946750308
SNP_P4_18629_4893356	NC_021161.1	Ca_kabuli_chr02	4893356	AA	GG	1946750310
SNP_P4_18630_4893411	NC_021161.1	Ca_kabuli_chr02	4893411	GG	CC	1946750312
SNP_P4_18631_4893522	NC_021161.1	Ca_kabuli_chr02	4893522	CC	AA	1946750314
SNP_P4_18632_4893601	NC_021161.1	Ca_kabuli_chr02	4893601	TT	CC	1946750316
SNP_P4_18633_4893902	NC_021161.1	Ca_kabuli_chr02	4893902	CC	TT	1946750318
SNP_P4_18634_4893941	NC_021161.1	Ca_kabuli_chr02	4893941	AA	GG	1946750320
SNP_P4_18635_4894008	NC_021161.1	Ca_kabuli_chr02	4894008	AA	TT	1946750322
SNP_P4_18636_4894056	NC_021161.1	Ca_kabuli_chr02	4894056	GG	AA	1946750324
SNP_P4_18638_4894300	NC_021161.1	Ca_kabuli_chr02	4894300	TT	GG	1946750326
SNP_P4_18639_4894415	NC_021161.1	Ca_kabuli_chr02	4894415	CC	AA	1946750328
SNP_P4_18640_4894639	NC_021161.1	Ca_kabuli_chr02	4894639	GG	TT	1946750330
SNP_P4_18641_4894701	NC_021161.1	Ca_kabuli_chr02	4894701	CC	AA	1946750332
SNP_P4_18643_4895096	NC_021161.1	Ca_kabuli_chr02	4895096	TT	GG	1946750335

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_18645_4895477	NC_021161.1	Ca_kabuli_chr02	4895477	GG	AA	1946750339
SNP_P4_18646_4895494	NC_021161.1	Ca_kabuli_chr02	4895494	AA	GG	1946750341
SNP_P4_18647_4895497	NC_021161.1	Ca_kabuli_chr02	4895497	CC	TT	1946750343
SNP_P4_18648_4895508	NC_021161.1	Ca_kabuli_chr02	4895508	GG	AA	1946750345
SNP_P4_18649_4895575	NC_021161.1	Ca_kabuli_chr02	4895575	CC	TT	1946750347
SNP_P4_18650_4895580	NC_021161.1	Ca_kabuli_chr02	4895580	GG	AA	1946750349
SNP_P4_18651_4895614	NC_021161.1	Ca_kabuli_chr02	4895614	TT	CC	1946750351
SNP_P4_18652_4895622	NC_021161.1	Ca_kabuli_chr02	4895622	TT	CC	1946750353
SNP_P4_18653_4895627	NC_021161.1	Ca_kabuli_chr02	4895627	AA	GG	1946750355
SNP_P4_18654_4895637	NC_021161.1	Ca_kabuli_chr02	4895637	TT	CC	1946750357
SNP_P4_18655_4895642	NC_021161.1	Ca_kabuli_chr02	4895642	GG	AA	1946750359
SNP_P4_18657_4895718	NC_021161.1	Ca_kabuli_chr02	4895718	GG	AA	1946750361
SNP_P4_18658_4912766	NC_021161.1	Ca_kabuli_chr02	4912766	TT	AA	1946750363
SNP_P4_18660_4916011	NC_021161.1	Ca_kabuli_chr02	4916011	AA	GG	1946750365
SNP_P4_18661_4916248	NC_021161.1	Ca_kabuli_chr02	4916248	CC	GG	1946750367
SNP_P4_18662_4916270	NC_021161.1	Ca_kabuli_chr02	4916270	TT	CC	1946750369
SNP_P4_18664_4974322	NC_021161.1	Ca_kabuli_chr02	4974322	AA	GG	1946750371
SNP_P4_18666_5003733	NC_021161.1	Ca_kabuli_chr02	5003733	AA	CC	1946750373
SNP_P4_18667_5007247	NC_021161.1	Ca_kabuli_chr02	5007247	TT	AA	1946750375
SNP_P4_18668_5008485	NC_021161.1	Ca_kabuli_chr02	5008485	AA	GG	1946750377
SNP_P4_18670_5107850	NC_021161.1	Ca_kabuli_chr02	5107850	TT	CC	1946750379
SNP_P4_18671_5108291	NC_021161.1	Ca_kabuli_chr02	5108291	AA	CC	1946750381
SNP_P4_18672_5112362	NC_021161.1	Ca_kabuli_chr02	5112362	TT	CC	1946750383
SNP_P4_18674_5112758	NC_021161.1	Ca_kabuli_chr02	5112758	AA	GG	1946750385
SNP_P4_18675_5112827	NC_021161.1	Ca_kabuli_chr02	5112827	AA	GG	1946750387
SNP_P4_18676_5135197	NC_021161.1	Ca_kabuli_chr02	5135197	AA	GG	1946750389
SNP_P4_18677_5135328	NC_021161.1	Ca_kabuli_chr02	5135328	AA	CC	1946750391
SNP_P4_18678_5135343	NC_021161.1	Ca_kabuli_chr02	5135343	AA	GG	1946750393
SNP_P4_18679_5135366	NC_021161.1	Ca_kabuli_chr02	5135366	AA	CC	1946750395
SNP_P4_18682_5155377	NC_021161.1	Ca_kabuli_chr02	5155377	TT	GG	1946750397
SNP_P4_18683_5157587	NC_021161.1	Ca_kabuli_chr02	5157587	TT	CC	1946750399
SNP_P4_18684_5157597	NC_021161.1	Ca_kabuli_chr02	5157597	AA	TT	1946750401
SNP_P4_18685_5157609	NC_021161.1	Ca_kabuli_chr02	5157609	CC	TT	1946750402
SNP_P4_18686_5157630	NC_021161.1	Ca_kabuli_chr02	5157630	AA	GG	1946750404
SNP_P4_18687_5157657	NC_021161.1	Ca_kabuli_chr02	5157657	TT	CC	1946750406
SNP_P4_18688_5157659	NC_021161.1	Ca_kabuli_chr02	5157659	TT	CC	1946750408
SNP_P4_18689_5157667	NC_021161.1	Ca_kabuli_chr02	5157667	CC	TT	1946750410
SNP_P4_18692_5238450	NC_021161.1	Ca_kabuli_chr02	5238450	AA	GG	1946750412
SNP_P4_18694_5271218	NC_021161.1	Ca_kabuli_chr02	5271218	AA	TT	1946750414
SNP_P4_18696_5290850	NC_021161.1	Ca_kabuli_chr02	5290850	AA	TT	1946750416
SNP_P4_18697_5312249	NC_021161.1	Ca_kabuli_chr02	5312249	AA	CC	1946750418

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_18700_5339833	NC_021161.1	Ca_kabuli_chr02	5339833	GG	AA	1946750422
SNP_P4_18701_5347609	NC_021161.1	Ca_kabuli_chr02	5347609	GG	AA	1946750424
SNP_P4_18702_5347610	NC_021161.1	Ca_kabuli_chr02	5347610	TT	CC	1946750426
SNP_P4_18703_5347642	NC_021161.1	Ca_kabuli_chr02	5347642	AA	GG	1946750428
SNP_P4_18704_5347734	NC_021161.1	Ca_kabuli_chr02	5347734	CC	AA	1946750430
SNP_P4_18705_5347931	NC_021161.1	Ca_kabuli_chr02	5347931	CC	TT	1946750432
SNP_P4_18706_5347997	NC_021161.1	Ca_kabuli_chr02	5347997	TT	AA	1946750434
SNP_P4_18707_5348020	NC_021161.1	Ca_kabuli_chr02	5348020	GG	AA	1946750436
SNP_P4_18708_5355259	NC_021161.1	Ca_kabuli_chr02	5355259	CC	TT	1946750438
SNP_P4_18709_5355281	NC_021161.1	Ca_kabuli_chr02	5355281	CC	TT	1946750440
SNP_P4_18710_5357780	NC_021161.1	Ca_kabuli_chr02	5357780	TT	AA	1946750442
SNP_P4_18711_5357782	NC_021161.1	Ca_kabuli_chr02	5357782	CC	AA	1946750444
SNP_P4_18712_5373598	NC_021161.1	Ca_kabuli_chr02	5373598	TT	AA	1946750446
SNP_P4_18713_5373612	NC_021161.1	Ca_kabuli_chr02	5373612	TT	AA	1946750448
SNP_P4_18714_5373613	NC_021161.1	Ca_kabuli_chr02	5373613	TT	AA	1946750450
SNP_P4_18716_5405348	NC_021161.1	Ca_kabuli_chr02	5405348	GG	AA	1946750452
SNP_P4_18717_5407919	NC_021161.1	Ca_kabuli_chr02	5407919	CC	TT	1946750454
SNP_P4_18718_5407927	NC_021161.1	Ca_kabuli_chr02	5407927	TT	AA	1946750456
SNP_P4_18719_5407930	NC_021161.1	Ca_kabuli_chr02	5407930	TT	CC	1946750458
SNP_P4_18720_5408023	NC_021161.1	Ca_kabuli_chr02	5408023	CC	TT	1946750460
SNP_P4_18721_5408098	NC_021161.1	Ca_kabuli_chr02	5408098	CC	TT	1946750462
SNP_P4_18724_5476879	NC_021161.1	Ca_kabuli_chr02	5476879	GG	AA	1946750464
SNP_P4_18725_5482303	NC_021161.1	Ca_kabuli_chr02	5482303	AA	GG	1946750466
SNP_P4_18726_5483872	NC_021161.1	Ca_kabuli_chr02	5483872	GG	AA	1946750468
SNP_P4_18727_5484772	NC_021161.1	Ca_kabuli_chr02	5484772	GG	TT	1946750470
SNP_P4_18729_5510140	NC_021161.1	Ca_kabuli_chr02	5510140	AA	CC	1946750472
SNP_P4_18730_5522691	NC_021161.1	Ca_kabuli_chr02	5522691	AA	GG	1946750474
SNP_P4_18731_5522713	NC_021161.1	Ca_kabuli_chr02	5522713	GG	AA	1946750476
SNP_P4_18732_5522912	NC_021161.1	Ca_kabuli_chr02	5522912	AA	GG	1946750478
SNP_P4_18733_5522930	NC_021161.1	Ca_kabuli_chr02	5522930	GG	TT	1946750480
SNP_P4_18734_5522950	NC_021161.1	Ca_kabuli_chr02	5522950	AA	GG	1946750482
SNP_P4_18735_5524155	NC_021161.1	Ca_kabuli_chr02	5524155	AA	CC	1946750484
SNP_P4_18736_5524339	NC_021161.1	Ca_kabuli_chr02	5524339	TT	GG	1946750486
SNP_P4_18737_5524431	NC_021161.1	Ca_kabuli_chr02	5524431	AA	GG	1946750488
SNP_P4_18738_5524436	NC_021161.1	Ca_kabuli_chr02	5524436	GG	AA	1946750490
SNP_P4_18739_5524451	NC_021161.1	Ca_kabuli_chr02	5524451	CC	TT	1946750492
SNP_P4_18740_5524462	NC_021161.1	Ca_kabuli_chr02	5524462	AA	GG	1946750494
SNP_P4_18741_5524465	NC_021161.1	Ca_kabuli_chr02	5524465	AA	TT	1946750495
SNP_P4_18742_5524479	NC_021161.1	Ca_kabuli_chr02	5524479	AA	CC	1946750496
SNP_P4_18743_5524663	NC_021161.1	Ca_kabuli_chr02	5524663	TT	CC	1946750497
SNP_P4_18744_5524726	NC_021161.1	Ca_kabuli_chr02	5524726	TT	CC	1946750498

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_18746_5524783	NC_021161.1	Ca_kabuli_chr02	5524783	TT	AA	1946750500
SNP_P4_18747_5526209	NC_021161.1	Ca_kabuli_chr02	5526209	CC	TT	1946750502
SNP_P4_18748_5526532	NC_021161.1	Ca_kabuli_chr02	5526532	CC	GG	1946750504
SNP_P4_18749_5531564	NC_021161.1	Ca_kabuli_chr02	5531564	GG	TT	1946750506
SNP_P4_18750_5565922	NC_021161.1	Ca_kabuli_chr02	5565922	CC	TT	1946750508
SNP_P4_18751_5565973	NC_021161.1	Ca_kabuli_chr02	5565973	AA	GG	1946750510
SNP_P4_18752_5566058	NC_021161.1	Ca_kabuli_chr02	5566058	AA	TT	1946750512
SNP_P4_18753_5566109	NC_021161.1	Ca_kabuli_chr02	5566109	GG	AA	1946750514
SNP_P4_18754_5566157	NC_021161.1	Ca_kabuli_chr02	5566157	TT	CC	1946750516
SNP_P4_18755_5566169	NC_021161.1	Ca_kabuli_chr02	5566169	GG	AA	1946750518
SNP_P4_18756_5566171	NC_021161.1	Ca_kabuli_chr02	5566171	AA	GG	1946750520
SNP_P4_18757_5566182	NC_021161.1	Ca_kabuli_chr02	5566182	TT	GG	1946750522
SNP_P4_18758_5566217	NC_021161.1	Ca_kabuli_chr02	5566217	GG	AA	1946750524
SNP_P4_18759_5566225	NC_021161.1	Ca_kabuli_chr02	5566225	AA	CC	1946750526
SNP_P4_18760_5566317	NC_021161.1	Ca_kabuli_chr02	5566317	AA	GG	1946750528
SNP_P4_18761_5566376	NC_021161.1	Ca_kabuli_chr02	5566376	GG	AA	1946750530
SNP_P4_18762_5566391	NC_021161.1	Ca_kabuli_chr02	5566391	CC	TT	1946750532
SNP_P4_18763_5579488	NC_021161.1	Ca_kabuli_chr02	5579488	TT	CC	1946750534
SNP_P4_18764_5579489	NC_021161.1	Ca_kabuli_chr02	5579489	TT	GG	1946750536
SNP_P4_18766_5640160	NC_021161.1	Ca_kabuli_chr02	5640160	AA	TT	1946750538
SNP_P4_18767_5648204	NC_021161.1	Ca_kabuli_chr02	5648204	TT	CC	1946750540
SNP_P4_18768_5655919	NC_021161.1	Ca_kabuli_chr02	5655919	AA	CC	1946750542
SNP_P4_18769_5676434	NC_021161.1	Ca_kabuli_chr02	5676434	CC	TT	1946750544
SNP_P4_18770_5701948	NC_021161.1	Ca_kabuli_chr02	5701948	TT	CC	1946750546
SNP_P4_18771_5703431	NC_021161.1	Ca_kabuli_chr02	5703431	CC	TT	1946750548
SNP_P4_18772_5703482	NC_021161.1	Ca_kabuli_chr02	5703482	TT	CC	1946750550
SNP_P4_18773_5703508	NC_021161.1	Ca_kabuli_chr02	5703508	TT	CC	1946750552
SNP_P4_18774_5703602	NC_021161.1	Ca_kabuli_chr02	5703602	GG	TT	1946750554
SNP_P4_18775_5703606	NC_021161.1	Ca_kabuli_chr02	5703606	AA	GG	1946750556
SNP_P4_18776_5703686	NC_021161.1	Ca_kabuli_chr02	5703686	TT	CC	1946750558
SNP_P4_18777_5703730	NC_021161.1	Ca_kabuli_chr02	5703730	GG	AA	1946750560
SNP_P4_18778_5703750	NC_021161.1	Ca_kabuli_chr02	5703750	GG	AA	1946750562
SNP_P4_18779_5706190	NC_021161.1	Ca_kabuli_chr02	5706190	GG	AA	1946750564
SNP_P4_18780_5706194	NC_021161.1	Ca_kabuli_chr02	5706194	CC	TT	1946750566
SNP_P4_18781_5706196	NC_021161.1	Ca_kabuli_chr02	5706196	GG	TT	1946750568
SNP_P4_18782_5706302	NC_021161.1	Ca_kabuli_chr02	5706302	AA	GG	1946750570
SNP_P4_18783_5706327	NC_021161.1	Ca_kabuli_chr02	5706327	CC	AA	1946750572
SNP_P4_18784_5706478	NC_021161.1	Ca_kabuli_chr02	5706478	GG	CC	1946750574
SNP_P4_18785_5706482	NC_021161.1	Ca_kabuli_chr02	5706482	AA	CC	1946750576
SNP_P4_18786_5706529	NC_021161.1	Ca_kabuli_chr02	5706529	GG	AA	1946750578
SNP_P4_18787_5706552	NC_021161.1	Ca_kabuli_chr02	5706552	AA	GG	1946750580

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_18790_5710878	NC_021161.1	Ca_kabuli_chr02	5710878	TT	CC	1946750584
SNP_P4_18791_5720055	NC_021161.1	Ca_kabuli_chr02	5720055	CC	TT	1946750585
SNP_P4_18792_5720149	NC_021161.1	Ca_kabuli_chr02	5720149	GG	AA	1946750587
SNP_P4_18793_5720340	NC_021161.1	Ca_kabuli_chr02	5720340	TT	CC	1946750589
SNP_P4_18794_5720379	NC_021161.1	Ca_kabuli_chr02	5720379	TT	AA	1946750591
SNP_P4_18795_5725057	NC_021161.1	Ca_kabuli_chr02	5725057	AA	GG	1946750593
SNP_P4_18796_5725077	NC_021161.1	Ca_kabuli_chr02	5725077	GG	AA	1946750595
SNP_P4_18797_5728899	NC_021161.1	Ca_kabuli_chr02	5728899	GG	CC	1946750597
SNP_P4_18798_5734510	NC_021161.1	Ca_kabuli_chr02	5734510	TT	CC	1946750599
SNP_P4_18799_5751341	NC_021161.1	Ca_kabuli_chr02	5751341	AA	GG	1946750601
SNP_P4_18800_5751359	NC_021161.1	Ca_kabuli_chr02	5751359	CC	TT	1946750603
SNP_P4_18801_5751386	NC_021161.1	Ca_kabuli_chr02	5751386	AA	GG	1946750605
SNP_P4_18802_5751390	NC_021161.1	Ca_kabuli_chr02	5751390	CC	AA	1946750607
SNP_P4_18803_5751600	NC_021161.1	Ca_kabuli_chr02	5751600	TT	AA	1946750609
SNP_P4_18804_5751629	NC_021161.1	Ca_kabuli_chr02	5751629	TT	GG	1946750611
SNP_P4_18805_5751653	NC_021161.1	Ca_kabuli_chr02	5751653	TT	CC	1946750613
SNP_P4_18806_5752891	NC_021161.1	Ca_kabuli_chr02	5752891	CC	TT	1946750615
SNP_P4_18807_5753041	NC_021161.1	Ca_kabuli_chr02	5753041	AA	TT	1946750617
SNP_P4_18808_5753072	NC_021161.1	Ca_kabuli_chr02	5753072	AA	TT	1946750619
SNP_P4_18809_5753212	NC_021161.1	Ca_kabuli_chr02	5753212	TT	CC	1946750621
SNP_P4_18810_5753213	NC_021161.1	Ca_kabuli_chr02	5753213	AA	GG	1946750623
SNP_P4_18811_5753292	NC_021161.1	Ca_kabuli_chr02	5753292	TT	GG	1946750625
SNP_P4_18812_5753293	NC_021161.1	Ca_kabuli_chr02	5753293	CC	AA	1946750627
SNP_P4_18813_5753309	NC_021161.1	Ca_kabuli_chr02	5753309	GG	CC	1946750629
SNP_P4_18814_5762360	NC_021161.1	Ca_kabuli_chr02	5762360	TT	CC	1946750631
SNP_P4_18815_5767688	NC_021161.1	Ca_kabuli_chr02	5767688	CC	TT	1946750633
SNP_P4_18816_5767704	NC_021161.1	Ca_kabuli_chr02	5767704	CC	TT	1946750635
SNP_P4_18817_5767711	NC_021161.1	Ca_kabuli_chr02	5767711	AA	TT	1946750637
SNP_P4_18818_5768066	NC_021161.1	Ca_kabuli_chr02	5768066	TT	GG	1946750639
SNP_P4_18819_5768761	NC_021161.1	Ca_kabuli_chr02	5768761	GG	AA	1946750641
SNP_P4_18820_5768805	NC_021161.1	Ca_kabuli_chr02	5768805	TT	CC	1946750643
SNP_P4_18821_5768826	NC_021161.1	Ca_kabuli_chr02	5768826	CC	AA	1946750645
SNP_P4_18822_5768838	NC_021161.1	Ca_kabuli_chr02	5768838	GG	AA	1946750647
SNP_P4_18823_5810819	NC_021161.1	Ca_kabuli_chr02	5810819	GG	AA	1946750649
SNP_P4_18824_5812028	NC_021161.1	Ca_kabuli_chr02	5812028	TT	CC	1946750651
SNP_P4_18825_5838625	NC_021161.1	Ca_kabuli_chr02	5838625	TT	CC	1946750653
SNP_P4_18826_5843139	NC_021161.1	Ca_kabuli_chr02	5843139	AA	TT	1946750655
SNP_P4_18827_5915256	NC_021161.1	Ca_kabuli_chr02	5915256	TT	GG	1946750657
SNP_P4_18828_5928284	NC_021161.1	Ca_kabuli_chr02	5928284	CC	TT	1946750659
SNP_P4_18829_5928286	NC_021161.1	Ca_kabuli_chr02	5928286	AA	GG	1946750661
SNP_P4_18830_5928311	NC_021161.1	Ca_kabuli_chr02	5928311	CC	TT	1946750663

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_18832_5932808	NC_021161.1	Ca_kabuli_chr02	5932808	AA	CC	1946750667
SNP_P4_18833_5964516	NC_021161.1	Ca_kabuli_chr02	5964516	TT	GG	1946750669
SNP_P4_18834_5972576	NC_021161.1	Ca_kabuli_chr02	5972576	TT	GG	1946750671
SNP_P4_18835_6017990	NC_021161.1	Ca_kabuli_chr02	6017990	AA	GG	1946750672
SNP_P4_18836_6020369	NC_021161.1	Ca_kabuli_chr02	6020369	AA	GG	1946750674
SNP_P4_18839_6065444	NC_021161.1	Ca_kabuli_chr02	6065444	AA	TT	1946750676
SNP_P4_18840_6075388	NC_021161.1	Ca_kabuli_chr02	6075388	AA	GG	1946750678
SNP_P4_18841_6075504	NC_021161.1	Ca_kabuli_chr02	6075504	TT	CC	1946750680
SNP_P4_18842_6075580	NC_021161.1	Ca_kabuli_chr02	6075580	AA	GG	1946750682
SNP_P4_18843_6075612	NC_021161.1	Ca_kabuli_chr02	6075612	AA	GG	1946750684
SNP_P4_18844_6075849	NC_021161.1	Ca_kabuli_chr02	6075849	TT	CC	1946750686
SNP_P4_18845_6075939	NC_021161.1	Ca_kabuli_chr02	6075939	CC	GG	1946750688
SNP_P4_18846_6076284	NC_021161.1	Ca_kabuli_chr02	6076284	TT	CC	1946750690
SNP_P4_18848_6154846	NC_021161.1	Ca_kabuli_chr02	6154846	CC	TT	1946750692
SNP_P4_18849_6196498	NC_021161.1	Ca_kabuli_chr02	6196498	CC	AA	1946750694
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SNP_P4_18851_6213362	NC_021161.1	Ca_kabuli_chr02	6213362	CC	AA	1946750698
SNP_P4_18852_6262050	NC_021161.1	Ca_kabuli_chr02	6262050	AA	TT	1946750700
SNP_P4_18853_6284611	NC_021161.1	Ca_kabuli_chr02	6284611	AA	CC	1946750702
SNP_P4_18854_6284742	NC_021161.1	Ca_kabuli_chr02	6284742	TT	CC	1946750704
SNP_P4_18855_6285360	NC_021161.1	Ca_kabuli_chr02	6285360	GG	AA	1946750706
SNP_P4_18857_6314539	NC_021161.1	Ca_kabuli_chr02	6314539	AA	GG	1946750708
SNP_P4_18858_6314579	NC_021161.1	Ca_kabuli_chr02	6314579	CC	TT	1946750710
SNP_P4_18859_6314581	NC_021161.1	Ca_kabuli_chr02	6314581	AA	GG	1946750712
SNP_P4_18860_6319382	NC_021161.1	Ca_kabuli_chr02	6319382	GG	AA	1946750714
SNP_P4_18861_6329061	NC_021161.1	Ca_kabuli_chr02	6329061	GG	AA	1946750716
SNP_P4_18862_6329077	NC_021161.1	Ca_kabuli_chr02	6329077	GG	AA	1946750718
SNP_P4_18863_6329081	NC_021161.1	Ca_kabuli_chr02	6329081	TT	GG	1946750720
SNP_P4_18864_6329145	NC_021161.1	Ca_kabuli_chr02	6329145	CC	GG	1946750722
SNP_P4_18865_6329160	NC_021161.1	Ca_kabuli_chr02	6329160	CC	AA	1946750724
SNP_P4_18866_6329161	NC_021161.1	Ca_kabuli_chr02	6329161	GG	AA	1946750726
SNP_P4_18867_6334362	NC_021161.1	Ca_kabuli_chr02	6334362	CC	AA	1946750728
SNP_P4_18868_6334365	NC_021161.1	Ca_kabuli_chr02	6334365	TT	CC	1946750730
SNP_P4_18869_6334367	NC_021161.1	Ca_kabuli_chr02	6334367	GG	AA	1946750732
SNP_P4_18870_6334408	NC_021161.1	Ca_kabuli_chr02	6334408	TT	GG	1946750734
SNP_P4_18871_6334417	NC_021161.1	Ca_kabuli_chr02	6334417	GG	CC	1946750736
SNP_P4_18872_6334429	NC_021161.1	Ca_kabuli_chr02	6334429	TT	CC	1946750738
SNP_P4_18873_6334432	NC_021161.1	Ca_kabuli_chr02	6334432	GG	AA	1946750740
SNP_P4_18874_6337319	NC_021161.1	Ca_kabuli_chr02	6337319	CC	AA	1946750742
SNP_P4_18875_6380942	NC_021161.1	Ca_kabuli_chr02	6380942	AA	GG	1946750744
SNP_P4_18876_6455880	NC_021161.1	Ca_kabuli_chr02	6455880	TT	AA	1946750746

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_18878_6505082	NC_021161.1	Ca_kabuli_chr02	6505082	AA	GG	1946750750
SNP_P4_18879_6505170	NC_021161.1	Ca_kabuli_chr02	6505170	AA	TT	1946750752
SNP_P4_18881_6505514	NC_021161.1	Ca_kabuli_chr02	6505514	GG	AA	1946750754
SNP_P4_18882_6506952	NC_021161.1	Ca_kabuli_chr02	6506952	AA	CC	1946750757
SNP_P4_18884_6538985	NC_021161.1	Ca_kabuli_chr02	6538985	CC	TT	1946750759
SNP_P4_18885_6595913	NC_021161.1	Ca_kabuli_chr02	6595913	CC	TT	1946750761
SNP_P4_18886_6617989	NC_021161.1	Ca_kabuli_chr02	6617989	GG	TT	1946750763
SNP_P4_18887_6617994	NC_021161.1	Ca_kabuli_chr02	6617994	AA	TT	1946750765
SNP_P4_18888_6618064	NC_021161.1	Ca_kabuli_chr02	6618064	TT	GG	1946750767
SNP_P4_18889_6618359	NC_021161.1	Ca_kabuli_chr02	6618359	AA	GG	1946750769
SNP_P4_18890_6618369	NC_021161.1	Ca_kabuli_chr02	6618369	AA	GG	1946750771
SNP_P4_18891_6618376	NC_021161.1	Ca_kabuli_chr02	6618376	AA	CC	1946750773
SNP_P4_18892_6618378	NC_021161.1	Ca_kabuli_chr02	6618378	TT	CC	1946750775
SNP_P4_18893_6638603	NC_021161.1	Ca_kabuli_chr02	6638603	AA	GG	1946750777
SNP_P4_18894_6639137	NC_021161.1	Ca_kabuli_chr02	6639137	GG	AA	1946750779
SNP_P4_18895_6639244	NC_021161.1	Ca_kabuli_chr02	6639244	AA	CC	1946750781
SNP_P4_18896_6639484	NC_021161.1	Ca_kabuli_chr02	6639484	AA	GG	1946750783
SNP_P4_18897_6639593	NC_021161.1	Ca_kabuli_chr02	6639593	AA	TT	1946750785
SNP_P4_18898_6639623	NC_021161.1	Ca_kabuli_chr02	6639623	CC	TT	1946750787
SNP_P4_18899_6639692	NC_021161.1	Ca_kabuli_chr02	6639692	AA	GG	1946750789
SNP_P4_18900_6640297	NC_021161.1	Ca_kabuli_chr02	6640297	GG	AA	1946750791
SNP_P4_18902_6640408	NC_021161.1	Ca_kabuli_chr02	6640408	AA	CC	1946750793
SNP_P4_18904_6640498	NC_021161.1	Ca_kabuli_chr02	6640498	AA	CC	1946750795
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SNP_P4_18909_6640702	NC_021161.1	Ca_kabuli_chr02	6640702	CC	TT	1946750805
SNP_P4_18910_6640779	NC_021161.1	Ca_kabuli_chr02	6640779	CC	TT	1946750807
SNP_P4_18911_6640852	NC_021161.1	Ca_kabuli_chr02	6640852	CC	TT	1946750809
SNP_P4_18912_6640889	NC_021161.1	Ca_kabuli_chr02	6640889	AA	TT	1946750811
SNP_P4_18913_6640951	NC_021161.1	Ca_kabuli_chr02	6640951	TT	CC	1946750813
SNP_P4_18914_6641068	NC_021161.1	Ca_kabuli_chr02	6641068	AA	GG	1946750815
SNP_P4_18915_6641252	NC_021161.1	Ca_kabuli_chr02	6641252	GG	AA	1946750817
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SNP_P4_18917_6641462	NC_021161.1	Ca_kabuli_chr02	6641462	CC	AA	1946750821
SNP_P4_18918_6641550	NC_021161.1	Ca_kabuli_chr02	6641550	AA	TT	1946750823
SNP_P4_18920_6641754	NC_021161.1	Ca_kabuli_chr02	6641754	TT	CC	1946750825
SNP_P4_18921_6641774	NC_021161.1	Ca_kabuli_chr02	6641774	GG	AA	1946750827
SNP_P4_18922_6641798	NC_021161.1	Ca_kabuli_chr02	6641798	CC	TT	1946750829
SNP_P4_18923_6641799	NC_021161.1	Ca_kabuli_chr02	6641799	GG	AA	1946750831

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_18926_6642168	NC_021161.1	Ca_kabuli_chr02	6642168	CC	AA	1946750835
SNP_P4_18927_6642216	NC_021161.1	Ca_kabuli_chr02	6642216	AA	GG	1946750837
SNP_P4_18928_6642298	NC_021161.1	Ca_kabuli_chr02	6642298	GG	TT	1946750839
SNP_P4_18929_6642329	NC_021161.1	Ca_kabuli_chr02	6642329	TT	AA	1946750841
SNP_P4_18930_6642359	NC_021161.1	Ca_kabuli_chr02	6642359	AA	CC	1946750843
SNP_P4_18931_6642448	NC_021161.1	Ca_kabuli_chr02	6642448	GG	TT	1946750845
SNP_P4_18932_6642481	NC_021161.1	Ca_kabuli_chr02	6642481	GG	AA	1946750847
SNP_P4_18935_6642564	NC_021161.1	Ca_kabuli_chr02	6642564	CC	AA	1946750849
SNP_P4_18936_6642720	NC_021161.1	Ca_kabuli_chr02	6642720	CC	TT	1946750851
SNP_P4_18937_6642729	NC_021161.1	Ca_kabuli_chr02	6642729	TT	AA	1946750853
SNP_P4_18938_6642762	NC_021161.1	Ca_kabuli_chr02	6642762	GG	TT	1946750855
SNP_P4_18939_6642785	NC_021161.1	Ca_kabuli_chr02	6642785	AA	TT	1946750857
SNP_P4_18940_6642921	NC_021161.1	Ca_kabuli_chr02	6642921	AA	GG	1946750859
SNP_P4_18941_6642944	NC_021161.1	Ca_kabuli_chr02	6642944	AA	CC	1946750861
SNP_P4_18942_6643061	NC_021161.1	Ca_kabuli_chr02	6643061	CC	GG	1946750863
SNP_P4_18943_6643125	NC_021161.1	Ca_kabuli_chr02	6643125	CC	GG	1946750865
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SNP_P4_18945_6643272	NC_021161.1	Ca_kabuli_chr02	6643272	AA	CC	1946750869
SNP_P4_18946_6643331	NC_021161.1	Ca_kabuli_chr02	6643331	CC	AA	1946750871
SNP_P4_18947_6643355	NC_021161.1	Ca_kabuli_chr02	6643355	AA	GG	1946750873
SNP_P4_18948_6643418	NC_021161.1	Ca_kabuli_chr02	6643418	CC	TT	1946750875
SNP_P4_18949_6643563	NC_021161.1	Ca_kabuli_chr02	6643563	AA	TT	1946750877
SNP_P4_18950_6643589	NC_021161.1	Ca_kabuli_chr02	6643589	CC	TT	1946750879
SNP_P4_18951_6643720	NC_021161.1	Ca_kabuli_chr02	6643720	GG	CC	1946750881
SNP_P4_18953_6643784	NC_021161.1	Ca_kabuli_chr02	6643784	CC	TT	1946750883
SNP_P4_18955_6644812	NC_021161.1	Ca_kabuli_chr02	6644812	CC	GG	1946750885
SNP_P4_18956_6644903	NC_021161.1	Ca_kabuli_chr02	6644903	AA	CC	1946750887
SNP_P4_18957_6644904	NC_021161.1	Ca_kabuli_chr02	6644904	CC	TT	1946750889
SNP_P4_18958_6644964	NC_021161.1	Ca_kabuli_chr02	6644964	TT	CC	1946750891
SNP_P4_18959_6645015	NC_021161.1	Ca_kabuli_chr02	6645015	TT	CC	1946750893
SNP_P4_18960_6645017	NC_021161.1	Ca_kabuli_chr02	6645017	GG	AA	1946750895
SNP_P4_18961_6645276	NC_021161.1	Ca_kabuli_chr02	6645276	AA	GG	1946750897
SNP_P4_18962_6645291	NC_021161.1	Ca_kabuli_chr02	6645291	AA	GG	1946750899
SNP_P4_18963_6645327	NC_021161.1	Ca_kabuli_chr02	6645327	CC	TT	1946750901
SNP_P4_18964_6645440	NC_021161.1	Ca_kabuli_chr02	6645440	AA	GG	1946750903
SNP_P4_18965_6645522	NC_021161.1	Ca_kabuli_chr02	6645522	TT	CC	1946750905
SNP_P4_18966_6645608	NC_021161.1	Ca_kabuli_chr02	6645608	AA	GG	1946750907
SNP_P4_18967_6645737	NC_021161.1	Ca_kabuli_chr02	6645737	CC	GG	1946750909
SNP_P4_18968_6645747	NC_021161.1	Ca_kabuli_chr02	6645747	TT	AA	1946750911
SNP_P4_18969_6645830	NC_021161.1	Ca_kabuli_chr02	6645830	CC	TT	1946750913
SNP_P4_18970_6646210	NC_021161.1	Ca_kabuli_chr02	6646210	GG	AA	1946750915

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_18971_6648216	NC_021161.1	Ca_kabuli_chr02	6648216	TT	CC	1946750917
SNP_P4_18972_6648388	NC_021161.1	Ca_kabuli_chr02	6648388	AA	TT	1946750919
SNP_P4_18974_6649839	NC_021161.1	Ca_kabuli_chr02	6649839	AA	TT	1946750921
SNP_P4_18975_6650404	NC_021161.1	Ca_kabuli_chr02	6650404	GG	AA	1946750923
SNP_P4_18976_6650405	NC_021161.1	Ca_kabuli_chr02	6650405	CC	TT	1946750925
SNP_P4_18977_6650689	NC_021161.1	Ca_kabuli_chr02	6650689	TT	CC	1946750927
SNP_P4_18978_6650695	NC_021161.1	Ca_kabuli_chr02	6650695	TT	CC	1946750929
SNP_P4_18979_6656012	NC_021161.1	Ca_kabuli_chr02	6656012	AA	GG	1946750931
SNP_P4_18980_6656227	NC_021161.1	Ca_kabuli_chr02	6656227	TT	GG	1946750933
SNP_P4_18981_6656696	NC_021161.1	Ca_kabuli_chr02	6656696	AA	TT	1946750935
SNP_P4_18982_6656699	NC_021161.1	Ca_kabuli_chr02	6656699	CC	TT	1946750937
SNP_P4_18983_6657701	NC_021161.1	Ca_kabuli_chr02	6657701	CC	TT	1946750939
SNP_P4_18985_6658111	NC_021161.1	Ca_kabuli_chr02	6658111	CC	GG	1946750941
SNP_P4_18987_6659310	NC_021161.1	Ca_kabuli_chr02	6659310	GG	AA	1946750943
SNP_P4_18988_6659340	NC_021161.1	Ca_kabuli_chr02	6659340	TT	AA	1946750945
SNP_P4_18989_6659360	NC_021161.1	Ca_kabuli_chr02	6659360	AA	GG	1946750947
SNP_P4_18990_6659541	NC_021161.1	Ca_kabuli_chr02	6659541	TT	GG	1946750949
SNP_P4_18991_6668216	NC_021161.1	Ca_kabuli_chr02	6668216	TT	CC	1946750951
SNP_P4_18992_6668360	NC_021161.1	Ca_kabuli_chr02	6668360	TT	CC	1946750953
SNP_P4_18993_6670897	NC_021161.1	Ca_kabuli_chr02	6670897	TT	AA	1946750955
SNP_P4_18994_6670932	NC_021161.1	Ca_kabuli_chr02	6670932	CC	TT	1946750957
SNP_P4_18995_6671239	NC_021161.1	Ca_kabuli_chr02	6671239	AA	TT	1946750959
SNP_P4_18996_6671242	NC_021161.1	Ca_kabuli_chr02	6671242	TT	GG	1946750961
SNP_P4_18997_6671243	NC_021161.1	Ca_kabuli_chr02	6671243	AA	TT	1946750963
SNP_P4_18998_6671258	NC_021161.1	Ca_kabuli_chr02	6671258	CC	TT	1946750965
SNP_P4_18999_6671303	NC_021161.1	Ca_kabuli_chr02	6671303	TT	CC	1946750967
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SNP_P4_19001_6674230	NC_021161.1	Ca_kabuli_chr02	6674230	TT	CC	1946750971
SNP_P4_19002_6680731	NC_021161.1	Ca_kabuli_chr02	6680731	CC	TT	1946750973
SNP_P4_19003_6680736	NC_021161.1	Ca_kabuli_chr02	6680736	TT	CC	1946750975
SNP_P4_19004_6680767	NC_021161.1	Ca_kabuli_chr02	6680767	GG	AA	1946750977
SNP_P4_19005_6680772	NC_021161.1	Ca_kabuli_chr02	6680772	TT	GG	1946750979
SNP_P4_19006_6680991	NC_021161.1	Ca_kabuli_chr02	6680991	TT	AA	1946750981
SNP_P4_19007_6680993	NC_021161.1	Ca_kabuli_chr02	6680993	CC	TT	1946750983
SNP_P4_19008_6681008	NC_021161.1	Ca_kabuli_chr02	6681008	GG	TT	1946750985
SNP_P4_19009_6681366	NC_021161.1	Ca_kabuli_chr02	6681366	GG	AA	1946750987
SNP_P4_19010_6681371	NC_021161.1	Ca_kabuli_chr02	6681371	CC	TT	1946750989
SNP_P4_19011_6687463	NC_021161.1	Ca_kabuli_chr02	6687463	CC	TT	1946750991
SNP_P4_19012_6687475	NC_021161.1	Ca_kabuli_chr02	6687475	GG	AA	1946750992
SNP_P4_19013_6687518	NC_021161.1	Ca_kabuli_chr02	6687518	AA	TT	1946750993
SNP_P4_19014_6687519	NC_021161.1	Ca_kabuli_chr02	6687519	AA	TT	1946750994
SNP_P4_19015_6687523	NC_021161.1	Ca_kabuli_chr02	6687523	CC	TT	1946750995

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_19017_6687604	NC_021161.1	Ca_kabuli_chr02	6687604	TT	GG	1946750997
SNP_P4_19018_6687606	NC_021161.1	Ca_kabuli_chr02	6687606	CC	TT	1946750999
SNP_P4_19019_6687609	NC_021161.1	Ca_kabuli_chr02	6687609	CC	TT	1946751001
SNP_P4_19020_6687616	NC_021161.1	Ca_kabuli_chr02	6687616	AA	GG	1946751003
SNP_P4_19021_6687638	NC_021161.1	Ca_kabuli_chr02	6687638	TT	GG	1946751005
SNP_P4_19022_6687791	NC_021161.1	Ca_kabuli_chr02	6687791	AA	GG	1946751007
SNP_P4_19023_6687908	NC_021161.1	Ca_kabuli_chr02	6687908	AA	GG	1946751009
SNP_P4_19024_6687926	NC_021161.1	Ca_kabuli_chr02	6687926	TT	CC	1946751011
SNP_P4_19025_6687975	NC_021161.1	Ca_kabuli_chr02	6687975	GG	AA	1946751013
SNP_P4_19026_6689904	NC_021161.1	Ca_kabuli_chr02	6689904	TT	CC	1946751015
SNP_P4_19027_6690146	NC_021161.1	Ca_kabuli_chr02	6690146	GG	AA	1946751017
SNP_P4_19029_6692071	NC_021161.1	Ca_kabuli_chr02	6692071	AA	GG	1946751019
SNP_P4_19030_6692084	NC_021161.1	Ca_kabuli_chr02	6692084	GG	CC	1946751021
SNP_P4_19031_6692102	NC_021161.1	Ca_kabuli_chr02	6692102	GG	AA	1946751023
SNP_P4_19032_6703400	NC_021161.1	Ca_kabuli_chr02	6703400	GG	AA	1946751025
SNP_P4_19033_6745799	NC_021161.1	Ca_kabuli_chr02	6745799	TT	CC	1946751027
SNP_P4_19035_6782056	NC_021161.1	Ca_kabuli_chr02	6782056	GG	AA	1946751029
SNP_P4_19036_6782432	NC_021161.1	Ca_kabuli_chr02	6782432	CC	TT	1946751031
SNP_P4_19037_6794405	NC_021161.1	Ca_kabuli_chr02	6794405	TT	CC	1946751033
SNP_P4_19038_6811064	NC_021161.1	Ca_kabuli_chr02	6811064	TT	AA	1946751035
SNP_P4_19039_6811065	NC_021161.1	Ca_kabuli_chr02	6811065	AA	TT	1946751037
SNP_P4_19040_6811067	NC_021161.1	Ca_kabuli_chr02	6811067	AA	GG	1946751039
SNP_P4_19041_6811084	NC_021161.1	Ca_kabuli_chr02	6811084	TT	CC	1946751041
SNP_P4_19042_6811092	NC_021161.1	Ca_kabuli_chr02	6811092	CC	TT	1946751042
SNP_P4_19044_6814176	NC_021161.1	Ca_kabuli_chr02	6814176	GG	AA	1946751044
SNP_P4_19045_6814275	NC_021161.1	Ca_kabuli_chr02	6814275	TT	AA	1946751046
SNP_P4_19047_6815074	NC_021161.1	Ca_kabuli_chr02	6815074	AA	GG	1946751048
SNP_P4_19048_6815088	NC_021161.1	Ca_kabuli_chr02	6815088	AA	CC	1946751050
SNP_P4_19049_6815091	NC_021161.1	Ca_kabuli_chr02	6815091	TT	CC	1946751052
SNP_P4_19050_6815432	NC_021161.1	Ca_kabuli_chr02	6815432	AA	GG	1946751054
SNP_P4_19051_6815464	NC_021161.1	Ca_kabuli_chr02	6815464	TT	CC	1946751056
SNP_P4_19052_6815526	NC_021161.1	Ca_kabuli_chr02	6815526	GG	AA	1946751058
SNP_P4_19053_6815556	NC_021161.1	Ca_kabuli_chr02	6815556	TT	CC	1946751060
SNP_P4_19054_6815581	NC_021161.1	Ca_kabuli_chr02	6815581	TT	CC	1946751062
SNP_P4_19055_6815582	NC_021161.1	Ca_kabuli_chr02	6815582	AA	GG	1946751064
SNP_P4_19056_6815586	NC_021161.1	Ca_kabuli_chr02	6815586	GG	TT	1946751066
SNP_P4_19057_6815597	NC_021161.1	Ca_kabuli_chr02	6815597	GG	TT	1946751068
SNP_P4_19058_6828384	NC_021161.1	Ca_kabuli_chr02	6828384	CC	TT	1946751070
SNP_P4_19059_6828416	NC_021161.1	Ca_kabuli_chr02	6828416	GG	AA	1946751072
SNP_P4_19061_6940540	NC_021161.1	Ca_kabuli_chr02	6940540	AA	GG	1946751074
SNP_P4_19062_7002435	NC_021161.1	Ca_kabuli_chr02	7002435	AA	GG	1946751076

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_19064_7002762	NC_021161.1	Ca_kabuli_chr02	7002762	AA	CC	1946751080
SNP_P4_19066_7002777	NC_021161.1	Ca_kabuli_chr02	7002777	GG	TT	1946751082
SNP_P4_19067_7002783	NC_021161.1	Ca_kabuli_chr02	7002783	TT	GG	1946751084
SNP_P4_19068_7002840	NC_021161.1	Ca_kabuli_chr02	7002840	CC	TT	1946751086
SNP_P4_19071_7054230	NC_021161.1	Ca_kabuli_chr02	7054230	TT	CC	1946751088
SNP_P4_19072_7062808	NC_021161.1	Ca_kabuli_chr02	7062808	AA	GG	1946751090
SNP_P4_19073_7075328	NC_021161.1	Ca_kabuli_chr02	7075328	TT	AA	1946751092
SNP_P4_19074_7075393	NC_021161.1	Ca_kabuli_chr02	7075393	AA	GG	1946751094
SNP_P4_19075_7075601	NC_021161.1	Ca_kabuli_chr02	7075601	AA	GG	1946751096
SNP_P4_19076_7075735	NC_021161.1	Ca_kabuli_chr02	7075735	TT	CC	1946751098
SNP_P4_19077_7076197	NC_021161.1	Ca_kabuli_chr02	7076197	TT	GG	1946751100
SNP_P4_19078_7076985	NC_021161.1	Ca_kabuli_chr02	7076985	AA	CC	1946751102
SNP_P4_19079_7090547	NC_021161.1	Ca_kabuli_chr02	7090547	CC	TT	1946751104
SNP_P4_19080_7108139	NC_021161.1	Ca_kabuli_chr02	7108139	CC	TT	1946751106
SNP_P4_19081_7151392	NC_021161.1	Ca_kabuli_chr02	7151392	GG	CC	1946751108
SNP_P4_19082_7154425	NC_021161.1	Ca_kabuli_chr02	7154425	TT	AA	1946751110
SNP_P4_19083_7171728	NC_021161.1	Ca_kabuli_chr02	7171728	AA	CC	1946751111
SNP_P4_19086_7171984	NC_021161.1	Ca_kabuli_chr02	7171984	TT	CC	1946751113
SNP_P4_19089_7172745	NC_021161.1	Ca_kabuli_chr02	7172745	CC	TT	1946751115
SNP_P4_19090_7173097	NC_021161.1	Ca_kabuli_chr02	7173097	AA	TT	1946751117
SNP_P4_19092_7177569	NC_021161.1	Ca_kabuli_chr02	7177569	GG	CC	1946751119
SNP_P4_19094_7256769	NC_021161.1	Ca_kabuli_chr02	7256769	TT	CC	1946751121
SNP_P4_19095_7261353	NC_021161.1	Ca_kabuli_chr02	7261353	GG	AA	1946751123
SNP_P4_19096_7261687	NC_021161.1	Ca_kabuli_chr02	7261687	CC	AA	1946751126
SNP_P4_19097_7262865	NC_021161.1	Ca_kabuli_chr02	7262865	CC	TT	1946751128
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SNP_P4_19099_7275026	NC_021161.1	Ca_kabuli_chr02	7275026	AA	GG	1946751132
SNP_P4_19100_7275744	NC_021161.1	Ca_kabuli_chr02	7275744	AA	GG	1946751134
SNP_P4_19101_7275749	NC_021161.1	Ca_kabuli_chr02	7275749	CC	TT	1946751136
SNP_P4_19103_7276388	NC_021161.1	Ca_kabuli_chr02	7276388	TT	CC	1946751138
SNP_P4_19104_7278265	NC_021161.1	Ca_kabuli_chr02	7278265	GG	AA	1946751140
SNP_P4_19105_7278355	NC_021161.1	Ca_kabuli_chr02	7278355	GG	TT	1946751142
SNP_P4_19106_7279611	NC_021161.1	Ca_kabuli_chr02	7279611	TT	CC	1946751144
SNP_P4_19107_7279969	NC_021161.1	Ca_kabuli_chr02	7279969	TT	AA	1946751146
SNP_P4_19108_7280052	NC_021161.1	Ca_kabuli_chr02	7280052	GG	AA	1946751148
SNP_P4_19109_7280130	NC_021161.1	Ca_kabuli_chr02	7280130	AA	GG	1946751150
SNP_P4_19110_7280160	NC_021161.1	Ca_kabuli_chr02	7280160	AA	GG	1946751152
SNP_P4_19111_7280227	NC_021161.1	Ca_kabuli_chr02	7280227	GG	AA	1946751154
SNP_P4_19112_7280301	NC_021161.1	Ca_kabuli_chr02	7280301	GG	AA	1946751156
SNP_P4_19114_7308149	NC_021161.1	Ca_kabuli_chr02	7308149	CC	AA	1946751158
SNP_P4_19115_7308151	NC_021161.1	Ca_kabuli_chr02	7308151	TT	GG	1946751160

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_19117_7308534	NC_021161.1	Ca_kabuli_chr02	7308534	TT	CC	1946751164
SNP_P4_19118_7340814	NC_021161.1	Ca_kabuli_chr02	7340814	TT	GG	1946751166
SNP_P4_19119_7340822	NC_021161.1	Ca_kabuli_chr02	7340822	AA	GG	1946751168
SNP_P4_19120_7340976	NC_021161.1	Ca_kabuli_chr02	7340976	GG	AA	1946751170
SNP_P4_19121_7342830	NC_021161.1	Ca_kabuli_chr02	7342830	AA	GG	1946751172
SNP_P4_19122_7349219	NC_021161.1	Ca_kabuli_chr02	7349219	GG	CC	1946751174
SNP_P4_19123_7360008	NC_021161.1	Ca_kabuli_chr02	7360008	AA	CC	1946751176
SNP_P4_19124_7360021	NC_021161.1	Ca_kabuli_chr02	7360021	CC	TT	1946751178
SNP_P4_19125_7360022	NC_021161.1	Ca_kabuli_chr02	7360022	AA	GG	1946751180
SNP_P4_19126_7378703	NC_021161.1	Ca_kabuli_chr02	7378703	CC	AA	1946751182
SNP_P4_19128_7416441	NC_021161.1	Ca_kabuli_chr02	7416441	TT	AA	1946751184
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SNP_P4_19130_7438016	NC_021161.1	Ca_kabuli_chr02	7438016	GG	AA	1946751188
SNP_P4_19131_7445953	NC_021161.1	Ca_kabuli_chr02	7445953	GG	AA	1946751190
SNP_P4_19132_7452022	NC_021161.1	Ca_kabuli_chr02	7452022	TT	CC	1946751192
SNP_P4_19133_7455973	NC_021161.1	Ca_kabuli_chr02	7455973	GG	TT	1946751194
SNP_P4_19134_7464850	NC_021161.1	Ca_kabuli_chr02	7464850	TT	GG	1946751196
SNP_P4_19135_7464854	NC_021161.1	Ca_kabuli_chr02	7464854	AA	TT	1946751198
SNP_P4_19136_7464855	NC_021161.1	Ca_kabuli_chr02	7464855	CC	AA	1946751200
SNP_P4_19137_7464856	NC_021161.1	Ca_kabuli_chr02	7464856	TT	CC	1946751202
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SNP_P4_19139_7494576	NC_021161.1	Ca_kabuli_chr02	7494576	TT	AA	1946751206
SNP_P4_19140_7494982	NC_021161.1	Ca_kabuli_chr02	7494982	TT	CC	1946751208
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SNP_P4_19144_7519698	NC_021161.1	Ca_kabuli_chr02	7519698	AA	GG	1946751216
SNP_P4_19145_7519729	NC_021161.1	Ca_kabuli_chr02	7519729	TT	GG	1946751218
SNP_P4_19146_7519739	NC_021161.1	Ca_kabuli_chr02	7519739	TT	GG	1946751220
SNP_P4_19147_7519740	NC_021161.1	Ca_kabuli_chr02	7519740	AA	GG	1946751222
SNP_P4_19148_7524633	NC_021161.1	Ca_kabuli_chr02	7524633	TT	CC	1946751224
SNP_P4_19149_7524638	NC_021161.1	Ca_kabuli_chr02	7524638	TT	CC	1946751226
SNP_P4_19150_7524642	NC_021161.1	Ca_kabuli_chr02	7524642	TT	CC	1946751228
SNP_P4_19151_7524644	NC_021161.1	Ca_kabuli_chr02	7524644	TT	AA	1946751230
SNP_P4_19152_7524675	NC_021161.1	Ca_kabuli_chr02	7524675	CC	TT	1946751232
SNP_P4_19153_7524676	NC_021161.1	Ca_kabuli_chr02	7524676	AA	GG	1946751234
SNP_P4_19154_7524717	NC_021161.1	Ca_kabuli_chr02	7524717	AA	GG	1946751236
SNP_P4_19155_7524991	NC_021161.1	Ca_kabuli_chr02	7524991	TT	CC	1946751238
SNP_P4_19156_7525000	NC_021161.1	Ca_kabuli_chr02	7525000	AA	TT	1946751240
SNP_P4_19157_7525006	NC_021161.1	Ca_kabuli_chr02	7525006	CC	TT	1946751242
SNP_P4_19158_7525096	NC_021161.1	Ca_kabuli_chr02	7525096	TT	CC	1946751244

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_19161_7525247	NC_021161.1	Ca_kabuli_chr02	7525247	AA	GG	1946751250
SNP_P4_19162_7525288	NC_021161.1	Ca_kabuli_chr02	7525288	TT	AA	1946751252
SNP_P4_19163_7526868	NC_021161.1	Ca_kabuli_chr02	7526868	AA	GG	1946751254
SNP_P4_19164_7526875	NC_021161.1	Ca_kabuli_chr02	7526875	GG	AA	1946751256
SNP_P4_19166_7531487	NC_021161.1	Ca_kabuli_chr02	7531487	CC	TT	1946751258
SNP_P4_19169_7566726	NC_021161.1	Ca_kabuli_chr02	7566726	TT	CC	1946751260
SNP_P4_19170_7582474	NC_021161.1	Ca_kabuli_chr02	7582474	AA	GG	1946751262
SNP_P4_19171_7582502	NC_021161.1	Ca_kabuli_chr02	7582502	AA	GG	1946751264
SNP_P4_19175_7593520	NC_021161.1	Ca_kabuli_chr02	7593520	TT	GG	1946751266
SNP_P4_19177_7614424	NC_021161.1	Ca_kabuli_chr02	7614424	AA	GG	1946751268
SNP_P4_19178_7614545	NC_021161.1	Ca_kabuli_chr02	7614545	TT	CC	1946751270
SNP_P4_19179_7614548	NC_021161.1	Ca_kabuli_chr02	7614548	CC	TT	1946751272
SNP_P4_19180_7614741	NC_021161.1	Ca_kabuli_chr02	7614741	TT	CC	1946751274
SNP_P4_19181_7614769	NC_021161.1	Ca_kabuli_chr02	7614769	TT	CC	1946751276
SNP_P4_19185_7639252	NC_021161.1	Ca_kabuli_chr02	7639252	AA	TT	1946751278
SNP_P4_19186_7645538	NC_021161.1	Ca_kabuli_chr02	7645538	TT	CC	1946751280
SNP_P4_19187_7650952	NC_021161.1	Ca_kabuli_chr02	7650952	TT	GG	1946751282
SNP_P4_19188_7651574	NC_021161.1	Ca_kabuli_chr02	7651574	AA	GG	1946751284
SNP_P4_19189_7651635	NC_021161.1	Ca_kabuli_chr02	7651635	AA	GG	1946751286
SNP_P4_19190_7654329	NC_021161.1	Ca_kabuli_chr02	7654329	TT	CC	1946751288
SNP_P4_19191_7654382	NC_021161.1	Ca_kabuli_chr02	7654382	TT	AA	1946751290
SNP_P4_19192_7654622	NC_021161.1	Ca_kabuli_chr02	7654622	TT	AA	1946751292
SNP_P4_19193_7654623	NC_021161.1	Ca_kabuli_chr02	7654623	TT	AA	1946751294
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SNP_P4_19195_7655202	NC_021161.1	Ca_kabuli_chr02	7655202	AA	TT	1946751298
SNP_P4_19196_7655207	NC_021161.1	Ca_kabuli_chr02	7655207	GG	TT	1946751300
SNP_P4_19198_7655592	NC_021161.1	Ca_kabuli_chr02	7655592	AA	GG	1946751302
SNP_P4_19199_7655599	NC_021161.1	Ca_kabuli_chr02	7655599	CC	AA	1946751304
SNP_P4_19200_7655686	NC_021161.1	Ca_kabuli_chr02	7655686	CC	TT	1946751306
SNP_P4_19202_7657166	NC_021161.1	Ca_kabuli_chr02	7657166	TT	CC	1946751308
SNP_P4_19203_7657183	NC_021161.1	Ca_kabuli_chr02	7657183	GG	AA	1946751310
SNP_P4_19204_7657185	NC_021161.1	Ca_kabuli_chr02	7657185	GG	AA	1946751312
SNP_P4_19205_7657220	NC_021161.1	Ca_kabuli_chr02	7657220	TT	CC	1946751314
SNP_P4_19206_7657226	NC_021161.1	Ca_kabuli_chr02	7657226	GG	AA	1946751316
SNP_P4_19207_7657264	NC_021161.1	Ca_kabuli_chr02	7657264	CC	TT	1946751318
SNP_P4_19208_7657272	NC_021161.1	Ca_kabuli_chr02	7657272	AA	GG	1946751320
SNP_P4_19209_7657338	NC_021161.1	Ca_kabuli_chr02	7657338	GG	AA	1946751322
SNP_P4_19210_7657598	NC_021161.1	Ca_kabuli_chr02	7657598	TT	CC	1946751324
SNP_P4_19211_7657664	NC_021161.1	Ca_kabuli_chr02	7657664	GG	AA	1946751327
SNP_P4_19212_7657665	NC_021161.1	Ca_kabuli_chr02	7657665	GG	CC	1946751329

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_19214_7667819	NC_021161.1	Ca_kabuli_chr02	7667819	TT	CC	1946751333
SNP_P4_19216_7669054	NC_021161.1	Ca_kabuli_chr02	7669054	CC	TT	1946751335
SNP_P4_19217_7669067	NC_021161.1	Ca_kabuli_chr02	7669067	CC	TT	1946751337
SNP_P4_19218_7669113	NC_021161.1	Ca_kabuli_chr02	7669113	GG	CC	1946751339
SNP_P4_19219_7669161	NC_021161.1	Ca_kabuli_chr02	7669161	AA	GG	1946751341
SNP_P4_19222_7669392	NC_021161.1	Ca_kabuli_chr02	7669392	TT	GG	1946751343
SNP_P4_19223_7669404	NC_021161.1	Ca_kabuli_chr02	7669404	AA	GG	1946751345
SNP_P4_19224_7669410	NC_021161.1	Ca_kabuli_chr02	7669410	TT	CC	1946751347
SNP_P4_19225_7669508	NC_021161.1	Ca_kabuli_chr02	7669508	TT	CC	1946751349
SNP_P4_19226_7669545	NC_021161.1	Ca_kabuli_chr02	7669545	CC	GG	1946751351
SNP_P4_19227_7669556	NC_021161.1	Ca_kabuli_chr02	7669556	AA	TT	1946751353
SNP_P4_19228_7669559	NC_021161.1	Ca_kabuli_chr02	7669559	GG	AA	1946751355
SNP_P4_19230_7669973	NC_021161.1	Ca_kabuli_chr02	7669973	AA	TT	1946751357
SNP_P4_19233_7673618	NC_021161.1	Ca_kabuli_chr02	7673618	TT	GG	1946751359
SNP_P4_19234_7673643	NC_021161.1	Ca_kabuli_chr02	7673643	CC	TT	1946751361
SNP_P4_19235_7673745	NC_021161.1	Ca_kabuli_chr02	7673745	AA	TT	1946751363
SNP_P4_19236_7673908	NC_021161.1	Ca_kabuli_chr02	7673908	CC	TT	1946751365
SNP_P4_19237_7674146	NC_021161.1	Ca_kabuli_chr02	7674146	AA	TT	1946751367
SNP_P4_19238_7674182	NC_021161.1	Ca_kabuli_chr02	7674182	AA	GG	1946751369
SNP_P4_19239_7674468	NC_021161.1	Ca_kabuli_chr02	7674468	TT	GG	1946751371
SNP_P4_19240_7674753	NC_021161.1	Ca_kabuli_chr02	7674753	TT	GG	1946751373
SNP_P4_19241_7674754	NC_021161.1	Ca_kabuli_chr02	7674754	GG	TT	1946751375
SNP_P4_19242_7674760	NC_021161.1	Ca_kabuli_chr02	7674760	AA	GG	1946751377
SNP_P4_19243_7674943	NC_021161.1	Ca_kabuli_chr02	7674943	TT	CC	1946751379
SNP_P4_19244_7676461	NC_021161.1	Ca_kabuli_chr02	7676461	GG	CC	1946751381
SNP_P4_19245_7677826	NC_021161.1	Ca_kabuli_chr02	7677826	GG	AA	1946751383
SNP_P4_19246_7678243	NC_021161.1	Ca_kabuli_chr02	7678243	GG	TT	1946751385
SNP_P4_19249_7679120	NC_021161.1	Ca_kabuli_chr02	7679120	AA	GG	1946751387
SNP_P4_19250_7679317	NC_021161.1	Ca_kabuli_chr02	7679317	TT	CC	1946751389
SNP_P4_19251_7680372	NC_021161.1	Ca_kabuli_chr02	7680372	AA	GG	1946751391
SNP_P4_19252_7681172	NC_021161.1	Ca_kabuli_chr02	7681172	AA	GG	1946751393
SNP_P4_19253_7681923	NC_021161.1	Ca_kabuli_chr02	7681923	AA	CC	1946751395
SNP_P4_19254_7681937	NC_021161.1	Ca_kabuli_chr02	7681937	TT	AA	1946751397
SNP_P4_19256_7684146	NC_021161.1	Ca_kabuli_chr02	7684146	GG	AA	1946751399
SNP_P4_19257_7684391	NC_021161.1	Ca_kabuli_chr02	7684391	GG	AA	1946751401
SNP_P4_19258_7684396	NC_021161.1	Ca_kabuli_chr02	7684396	GG	AA	1946751403
SNP_P4_19261_7684791	NC_021161.1	Ca_kabuli_chr02	7684791	TT	AA	1946751405
SNP_P4_19262_7684886	NC_021161.1	Ca_kabuli_chr02	7684886	GG	TT	1946751407
SNP_P4_19263_7686619	NC_021161.1	Ca_kabuli_chr02	7686619	GG	AA	1946751409
SNP_P4_19264_7689591	NC_021161.1	Ca_kabuli_chr02	7689591	TT	CC	1946751411
SNP_P4_19265_7689939	NC_021161.1	Ca_kabuli_chr02	7689939	GG	AA	1946751413

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_19267_7691414	NC_021161.1	Ca_kabuli_chr02	7691414	CC	GG	1946751417
SNP_P4_19268_7691415	NC_021161.1	Ca_kabuli_chr02	7691415	TT	CC	1946751419
SNP_P4_19269_7691448	NC_021161.1	Ca_kabuli_chr02	7691448	TT	CC	1946751421
SNP_P4_19270_7691458	NC_021161.1	Ca_kabuli_chr02	7691458	GG	AA	1946751423
SNP_P4_19271_7691463	NC_021161.1	Ca_kabuli_chr02	7691463	TT	CC	1946751425
SNP_P4_19273_7696998	NC_021161.1	Ca_kabuli_chr02	7696998	AA	GG	1946751427
SNP_P4_19274_7697000	NC_021161.1	Ca_kabuli_chr02	7697000	AA	CC	1946751429
SNP_P4_19275_7697041	NC_021161.1	Ca_kabuli_chr02	7697041	TT	GG	1946751431
SNP_P4_19276_7698482	NC_021161.1	Ca_kabuli_chr02	7698482	CC	TT	1946751433
SNP_P4_19277_7699441	NC_021161.1	Ca_kabuli_chr02	7699441	GG	AA	1946751435
SNP_P4_19278_7699902	NC_021161.1	Ca_kabuli_chr02	7699902	AA	TT	1946751437
SNP_P4_19279_7701095	NC_021161.1	Ca_kabuli_chr02	7701095	TT	GG	1946751439
SNP_P4_19280_7701684	NC_021161.1	Ca_kabuli_chr02	7701684	TT	AA	1946751441
SNP_P4_19281_7702328	NC_021161.1	Ca_kabuli_chr02	7702328	GG	CC	1946751443
SNP_P4_19282_7702813	NC_021161.1	Ca_kabuli_chr02	7702813	AA	TT	1946751445
SNP_P4_19283_7703082	NC_021161.1	Ca_kabuli_chr02	7703082	AA	GG	1946751447
SNP_P4_19284_7704943	NC_021161.1	Ca_kabuli_chr02	7704943	TT	AA	1946751449
SNP_P4_19285_7705014	NC_021161.1	Ca_kabuli_chr02	7705014	AA	GG	1946751451
SNP_P4_19287_7705682	NC_021161.1	Ca_kabuli_chr02	7705682	GG	AA	1946751454
SNP_P4_19288_7705683	NC_021161.1	Ca_kabuli_chr02	7705683	AA	GG	1946751456
SNP_P4_19289_7705961	NC_021161.1	Ca_kabuli_chr02	7705961	AA	GG	1946751458
SNP_P4_19290_7706029	NC_021161.1	Ca_kabuli_chr02	7706029	AA	GG	1946751460
SNP_P4_19292_7706566	NC_021161.1	Ca_kabuli_chr02	7706566	GG	AA	1946751462
SNP_P4_19293_7706583	NC_021161.1	Ca_kabuli_chr02	7706583	TT	GG	1946751464
SNP_P4_19294_7706618	NC_021161.1	Ca_kabuli_chr02	7706618	AA	TT	1946751466
SNP_P4_19295_7706636	NC_021161.1	Ca_kabuli_chr02	7706636	AA	GG	1946751468
SNP_P4_19296_7707515	NC_021161.1	Ca_kabuli_chr02	7707515	AA	GG	1946751470
SNP_P4_19297_7707524	NC_021161.1	Ca_kabuli_chr02	7707524	TT	CC	1946751472
SNP_P4_19298_7707544	NC_021161.1	Ca_kabuli_chr02	7707544	AA	GG	1946751474
SNP_P4_19299_7707551	NC_021161.1	Ca_kabuli_chr02	7707551	AA	TT	1946751476
SNP_P4_19300_7707790	NC_021161.1	Ca_kabuli_chr02	7707790	GG	TT	1946751478
SNP_P4_19301_7707814	NC_021161.1	Ca_kabuli_chr02	7707814	CC	AA	1946751480
SNP_P4_19302_7708008	NC_021161.1	Ca_kabuli_chr02	7708008	AA	TT	1946751482
SNP_P4_19304_7708079	NC_021161.1	Ca_kabuli_chr02	7708079	AA	GG	1946751484
SNP_P4_19305_7709844	NC_021161.1	Ca_kabuli_chr02	7709844	TT	GG	1946751486
SNP_P4_19306_7710488	NC_021161.1	Ca_kabuli_chr02	7710488	CC	TT	1946751488
SNP_P4_19307_7710489	NC_021161.1	Ca_kabuli_chr02	7710489	AA	GG	1946751490
SNP_P4_19308_7710610	NC_021161.1	Ca_kabuli_chr02	7710610	TT	CC	1946751492
SNP_P4_19309_7710728	NC_021161.1	Ca_kabuli_chr02	7710728	CC	TT	1946751494
SNP_P4_19310_7710766	NC_021161.1	Ca_kabuli_chr02	7710766	CC	TT	1946751496
SNP_P4_19311_7710817	NC_021161.1	Ca_kabuli_chr02	7710817	AA	GG	1946751498

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_19313_7711949	NC_021161.1	Ca_kabuli_chr02	7711949	TT	GG	1946751502
SNP_P4_19314_7712262	NC_021161.1	Ca_kabuli_chr02	7712262	AA	GG	1946751504
SNP_P4_19315_7712313	NC_021161.1	Ca_kabuli_chr02	7712313	TT	CC	1946751506
SNP_P4_19316_7713953	NC_021161.1	Ca_kabuli_chr02	7713953	GG	AA	1946751508
SNP_P4_19317_7713962	NC_021161.1	Ca_kabuli_chr02	7713962	CC	GG	1946751510
SNP_P4_19318_7714061	NC_021161.1	Ca_kabuli_chr02	7714061	TT	AA	1946751512
SNP_P4_19320_7715429	NC_021161.1	Ca_kabuli_chr02	7715429	AA	GG	1946751514
SNP_P4_19321_7715484	NC_021161.1	Ca_kabuli_chr02	7715484	GG	TT	1946751516
SNP_P4_19322_7717532	NC_021161.1	Ca_kabuli_chr02	7717532	TT	CC	1946751518
SNP_P4_19323_7717556	NC_021161.1	Ca_kabuli_chr02	7717556	GG	TT	1946751520
SNP_P4_19324_7718584	NC_021161.1	Ca_kabuli_chr02	7718584	GG	TT	1946751523
SNP_P4_19326_7718970	NC_021161.1	Ca_kabuli_chr02	7718970	CC	TT	1946751525
SNP_P4_19327_7720720	NC_021161.1	Ca_kabuli_chr02	7720720	CC	AA	1946751527
SNP_P4_19328_7720723	NC_021161.1	Ca_kabuli_chr02	7720723	CC	TT	1946751529
SNP_P4_19329_7720979	NC_021161.1	Ca_kabuli_chr02	7720979	TT	AA	1946751531
SNP_P4_19331_7723083	NC_021161.1	Ca_kabuli_chr02	7723083	CC	TT	1946751533
SNP_P4_19332_7723102	NC_021161.1	Ca_kabuli_chr02	7723102	AA	TT	1946751535
SNP_P4_19333_7723107	NC_021161.1	Ca_kabuli_chr02	7723107	TT	GG	1946751537
SNP_P4_19334_7723160	NC_021161.1	Ca_kabuli_chr02	7723160	CC	TT	1946751539
SNP_P4_19336_7723220	NC_021161.1	Ca_kabuli_chr02	7723220	AA	GG	1946751541
SNP_P4_19337_7723234	NC_021161.1	Ca_kabuli_chr02	7723234	CC	TT	1946751543
SNP_P4_19338_7723269	NC_021161.1	Ca_kabuli_chr02	7723269	GG	TT	1946751545
SNP_P4_19340_7723620	NC_021161.1	Ca_kabuli_chr02	7723620	CC	TT	1946751547
SNP_P4_19341_7723683	NC_021161.1	Ca_kabuli_chr02	7723683	TT	GG	1946751549
SNP_P4_19342_7723918	NC_021161.1	Ca_kabuli_chr02	7723918	CC	TT	1946751551
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SNP_P4_19346_7727830	NC_021161.1	Ca_kabuli_chr02	7727830	GG	AA	1946751557
SNP_P4_19347_7727837	NC_021161.1	Ca_kabuli_chr02	7727837	CC	TT	1946751560
SNP_P4_19348_7727863	NC_021161.1	Ca_kabuli_chr02	7727863	TT	CC	1946751562
SNP_P4_19349_7727864	NC_021161.1	Ca_kabuli_chr02	7727864	AA	GG	1946751564
SNP_P4_19350_7727899	NC_021161.1	Ca_kabuli_chr02	7727899	AA	GG	1946751566
SNP_P4_19351_7728067	NC_021161.1	Ca_kabuli_chr02	7728067	CC	GG	1946751568
SNP_P4_19352_7728069	NC_021161.1	Ca_kabuli_chr02	7728069	GG	AA	1946751570
SNP_P4_19353_7728073	NC_021161.1	Ca_kabuli_chr02	7728073	AA	GG	1946751572
SNP_P4_19354_7728100	NC_021161.1	Ca_kabuli_chr02	7728100	CC	TT	1946751574
SNP_P4_19355_7728112	NC_021161.1	Ca_kabuli_chr02	7728112	CC	TT	1946751576
SNP_P4_19356_7728113	NC_021161.1	Ca_kabuli_chr02	7728113	CC	TT	1946751578
SNP_P4_19357_7728124	NC_021161.1	Ca_kabuli_chr02	7728124	TT	CC	1946751580
SNP_P4_19358_7728127	NC_021161.1	Ca_kabuli_chr02	7728127	AA	GG	1946751582
SNP_P4_19359_7728136	NC_021161.1	Ca_kabuli_chr02	7728136	GG	AA	1946751584

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_19361_7729230	NC_021161.1	Ca_kabuli_chr02	7729230	CC	GG	1946751588
SNP_P4_19362_7729236	NC_021161.1	Ca_kabuli_chr02	7729236	CC	TT	1946751590
SNP_P4_19363_7729388	NC_021161.1	Ca_kabuli_chr02	7729388	TT	CC	1946751592
SNP_P4_19364_7729399	NC_021161.1	Ca_kabuli_chr02	7729399	TT	GG	1946751594
SNP_P4_19365_7729952	NC_021161.1	Ca_kabuli_chr02	7729952	AA	GG	1946751596
SNP_P4_19366_7730133	NC_021161.1	Ca_kabuli_chr02	7730133	GG	AA	1946751598
SNP_P4_19367_7730154	NC_021161.1	Ca_kabuli_chr02	7730154	TT	AA	1946751600
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SNP_P4_19372_7730852	NC_021161.1	Ca_kabuli_chr02	7730852	AA	GG	1946751610
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SNP_P4_19376_7731086	NC_021161.1	Ca_kabuli_chr02	7731086	GG	AA	1946751618
SNP_P4_19377_7731167	NC_021161.1	Ca_kabuli_chr02	7731167	CC	TT	1946751620
SNP_P4_19378_7731246	NC_021161.1	Ca_kabuli_chr02	7731246	CC	TT	1946751622
SNP_P4_19379_7731300	NC_021161.1	Ca_kabuli_chr02	7731300	TT	CC	1946751624
SNP_P4_19380_7731361	NC_021161.1	Ca_kabuli_chr02	7731361	TT	CC	1946751626
SNP_P4_19382_7731446	NC_021161.1	Ca_kabuli_chr02	7731446	AA	TT	1946751628
SNP_P4_19383_7735220	NC_021161.1	Ca_kabuli_chr02	7735220	TT	CC	1946751630
SNP_P4_19384_7735658	NC_021161.1	Ca_kabuli_chr02	7735658	TT	AA	1946751632
SNP_P4_19385_7737063	NC_021161.1	Ca_kabuli_chr02	7737063	GG	AA	1946751634
SNP_P4_19386_7737284	NC_021161.1	Ca_kabuli_chr02	7737284	TT	CC	1946751636
SNP_P4_19387_7737289	NC_021161.1	Ca_kabuli_chr02	7737289	AA	GG	1946751638
SNP_P4_19388_7737668	NC_021161.1	Ca_kabuli_chr02	7737668	TT	CC	1946751640
SNP_P4_19389_7737968	NC_021161.1	Ca_kabuli_chr02	7737968	GG	AA	1946751642
SNP_P4_19390_7738423	NC_021161.1	Ca_kabuli_chr02	7738423	CC	GG	1946751644
SNP_P4_19391_7738756	NC_021161.1	Ca_kabuli_chr02	7738756	TT	GG	1946751646
SNP_P4_19392_7738942	NC_021161.1	Ca_kabuli_chr02	7738942	GG	AA	1946751648
SNP_P4_19393_7739006	NC_021161.1	Ca_kabuli_chr02	7739006	TT	CC	1946751650
SNP_P4_19394_7739007	NC_021161.1	Ca_kabuli_chr02	7739007	AA	GG	1946751651
SNP_P4_19395_7739027	NC_021161.1	Ca_kabuli_chr02	7739027	TT	GG	1946751653
SNP_P4_19396_7739058	NC_021161.1	Ca_kabuli_chr02	7739058	AA	TT	1946751655
SNP_P4_19397_7739068	NC_021161.1	Ca_kabuli_chr02	7739068	TT	CC	1946751657
SNP_P4_19398_7739069	NC_021161.1	Ca_kabuli_chr02	7739069	AA	CC	1946751659
SNP_P4_19400_7743389	NC_021161.1	Ca_kabuli_chr02	7743389	CC	AA	1946751661
SNP_P4_19401_7743392	NC_021161.1	Ca_kabuli_chr02	7743392	TT	CC	1946751663
SNP_P4_19403_7743424	NC_021161.1	Ca_kabuli_chr02	7743424	AA	GG	1946751665
SNP_P4_19404_7743965	NC_021161.1	Ca_kabuli_chr02	7743965	AA	GG	1946751667

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_19405_7744268	NC_021161.1	Ca_kabuli_chr02	7744268	AA	CC	1946751669
SNP_P4_19406_7744271	NC_021161.1	Ca_kabuli_chr02	7744271	AA	GG	1946751671
SNP_P4_19407_7744276	NC_021161.1	Ca_kabuli_chr02	7744276	GG	AA	1946751673
SNP_P4_19408_7744296	NC_021161.1	Ca_kabuli_chr02	7744296	AA	GG	1946751675
SNP_P4_19409_7744318	NC_021161.1	Ca_kabuli_chr02	7744318	AA	TT	1946751677
SNP_P4_19410_7744369	NC_021161.1	Ca_kabuli_chr02	7744369	AA	TT	1946751679
SNP_P4_19411_7744700	NC_021161.1	Ca_kabuli_chr02	7744700	AA	GG	1946751681
SNP_P4_19412_7744701	NC_021161.1	Ca_kabuli_chr02	7744701	CC	TT	1946751683
SNP_P4_19414_7744922	NC_021161.1	Ca_kabuli_chr02	7744922	GG	AA	1946751685
SNP_P4_19415_7744969	NC_021161.1	Ca_kabuli_chr02	7744969	TT	GG	1946751687
SNP_P4_19416_7744973	NC_021161.1	Ca_kabuli_chr02	7744973	GG	TT	1946751689
SNP_P4_19417_7745163	NC_021161.1	Ca_kabuli_chr02	7745163	TT	CC	1946751691
SNP_P4_19418_7745176	NC_021161.1	Ca_kabuli_chr02	7745176	TT	CC	1946751693
SNP_P4_19420_7745268	NC_021161.1	Ca_kabuli_chr02	7745268	TT	AA	1946751695
SNP_P4_19421_7746316	NC_021161.1	Ca_kabuli_chr02	7746316	AA	TT	1946751697
SNP_P4_19422_7746725	NC_021161.1	Ca_kabuli_chr02	7746725	AA	GG	1946751699
SNP_P4_19423_7747084	NC_021161.1	Ca_kabuli_chr02	7747084	CC	TT	1946751701
SNP_P4_19424_7748490	NC_021161.1	Ca_kabuli_chr02	7748490	TT	CC	1946751703
SNP_P4_19425_7748506	NC_021161.1	Ca_kabuli_chr02	7748506	TT	GG	1946751705
SNP_P4_19426_7749450	NC_021161.1	Ca_kabuli_chr02	7749450	AA	GG	1946751707
SNP_P4_19427_7749716	NC_021161.1	Ca_kabuli_chr02	7749716	GG	CC	1946751709
SNP_P4_19428_7749886	NC_021161.1	Ca_kabuli_chr02	7749886	GG	CC	1946751711
SNP_P4_19429_7749892	NC_021161.1	Ca_kabuli_chr02	7749892	AA	CC	1946751713
SNP_P4_19430_7749930	NC_021161.1	Ca_kabuli_chr02	7749930	TT	CC	1946751715
SNP_P4_19431_7749951	NC_021161.1	Ca_kabuli_chr02	7749951	CC	TT	1946751717
SNP_P4_19432_7749954	NC_021161.1	Ca_kabuli_chr02	7749954	AA	GG	1946751719
SNP_P4_19434_7750167	NC_021161.1	Ca_kabuli_chr02	7750167	AA	CC	1946751721
SNP_P4_19436_7750346	NC_021161.1	Ca_kabuli_chr02	7750346	CC	TT	1946751723
SNP_P4_19437_7752825	NC_021161.1	Ca_kabuli_chr02	7752825	AA	CC	1946751725
SNP_P4_19438_7752840	NC_021161.1	Ca_kabuli_chr02	7752840	TT	GG	1946751727
SNP_P4_19439_7752958	NC_021161.1	Ca_kabuli_chr02	7752958	CC	TT	1946751729
SNP_P4_19441_7753419	NC_021161.1	Ca_kabuli_chr02	7753419	GG	CC	1946751730
SNP_P4_19442_7753425	NC_021161.1	Ca_kabuli_chr02	7753425	TT	CC	1946751732
SNP_P4_19443_7753440	NC_021161.1	Ca_kabuli_chr02	7753440	CC	TT	1946751734
SNP_P4_19444_7755509	NC_021161.1	Ca_kabuli_chr02	7755509	CC	GG	1946751736
SNP_P4_19446_7757253	NC_021161.1	Ca_kabuli_chr02	7757253	TT	AA	1946751738
SNP_P4_19447_7757264	NC_021161.1	Ca_kabuli_chr02	7757264	AA	TT	1946751740
SNP_P4_19448_7757285	NC_021161.1	Ca_kabuli_chr02	7757285	AA	GG	1946751742
SNP_P4_19449_7757296	NC_021161.1	Ca_kabuli_chr02	7757296	AA	GG	1946751744
SNP_P4_19450_7757494	NC_021161.1	Ca_kabuli_chr02	7757494	AA	GG	1946751746
SNP_P4_19451_7757512	NC_021161.1	Ca_kabuli_chr02	7757512	GG	AA	1946751748
SNP_P4_19452_7757632	NC_021161.1	Ca_kabuli_chr02	7757632	AA	GG	1946751750

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_19455_7757718	NC_021161.1	Ca_kabuli_chr02	7757718	CC	TT	1946751754
SNP_P4_19456_7759184	NC_021161.1	Ca_kabuli_chr02	7759184	GG	AA	1946751756
SNP_P4_19457_7759186	NC_021161.1	Ca_kabuli_chr02	7759186	GG	AA	1946751757
SNP_P4_19458_7770792	NC_021161.1	Ca_kabuli_chr02	7770792	AA	GG	1946751759
SNP_P4_19459_7770803	NC_021161.1	Ca_kabuli_chr02	7770803	GG	TT	1946751761
SNP_P4_19460_7770833	NC_021161.1	Ca_kabuli_chr02	7770833	AA	GG	1946751763
SNP_P4_19461_7771142	NC_021161.1	Ca_kabuli_chr02	7771142	CC	AA	1946751765
SNP_P4_19462_7771145	NC_021161.1	Ca_kabuli_chr02	7771145	AA	TT	1946751767
SNP_P4_19463_7771164	NC_021161.1	Ca_kabuli_chr02	7771164	TT	AA	1946751769
SNP_P4_19464_7771292	NC_021161.1	Ca_kabuli_chr02	7771292	TT	GG	1946751771
SNP_P4_19466_7771513	NC_021161.1	Ca_kabuli_chr02	7771513	GG	AA	1946751773
SNP_P4_19467_7772243	NC_021161.1	Ca_kabuli_chr02	7772243	GG	AA	1946751775
SNP_P4_19469_7772503	NC_021161.1	Ca_kabuli_chr02	7772503	TT	GG	1946751776
SNP_P4_19470_7772542	NC_021161.1	Ca_kabuli_chr02	7772542	CC	AA	1946751778
SNP_P4_19472_7772764	NC_021161.1	Ca_kabuli_chr02	7772764	AA	GG	1946751780
SNP_P4_19473_7772765	NC_021161.1	Ca_kabuli_chr02	7772765	GG	AA	1946751782
SNP_P4_19474_7772767	NC_021161.1	Ca_kabuli_chr02	7772767	TT	CC	1946751784
SNP_P4_19475_7772793	NC_021161.1	Ca_kabuli_chr02	7772793	CC	GG	1946751786
SNP_P4_19478_7773387	NC_021161.1	Ca_kabuli_chr02	7773387	CC	AA	1946751788
SNP_P4_19480_7774267	NC_021161.1	Ca_kabuli_chr02	7774267	CC	TT	1946751790
SNP_P4_19482_7774673	NC_021161.1	Ca_kabuli_chr02	7774673	GG	AA	1946751792
SNP_P4_19483_7774689	NC_021161.1	Ca_kabuli_chr02	7774689	TT	CC	1946751793
SNP_P4_19484_7774691	NC_021161.1	Ca_kabuli_chr02	7774691	TT	CC	1946751795
SNP_P4_19487_7776422	NC_021161.1	Ca_kabuli_chr02	7776422	CC	TT	1946751797
SNP_P4_19488_7776757	NC_021161.1	Ca_kabuli_chr02	7776757	CC	TT	1946751799
SNP_P4_19489_7779390	NC_021161.1	Ca_kabuli_chr02	7779390	CC	TT	1946751801
SNP_P4_19491_7782001	NC_021161.1	Ca_kabuli_chr02	7782001	CC	TT	1946751803
SNP_P4_19492_7782477	NC_021161.1	Ca_kabuli_chr02	7782477	GG	AA	1946751805
SNP_P4_19493_7783419	NC_021161.1	Ca_kabuli_chr02	7783419	AA	CC	1946751807
SNP_P4_19494_7783581	NC_021161.1	Ca_kabuli_chr02	7783581	AA	GG	1946751809
SNP_P4_19495_7783624	NC_021161.1	Ca_kabuli_chr02	7783624	TT	CC	1946751811
SNP_P4_19496_7784015	NC_021161.1	Ca_kabuli_chr02	7784015	TT	CC	1946751813
SNP_P4_19497_7784050	NC_021161.1	Ca_kabuli_chr02	7784050	CC	AA	1946751815
SNP_P4_19498_7788526	NC_021161.1	Ca_kabuli_chr02	7788526	AA	GG	1946751817
SNP_P4_19499_7789252	NC_021161.1	Ca_kabuli_chr02	7789252	GG	CC	1946751819
SNP_P4_19500_7789262	NC_021161.1	Ca_kabuli_chr02	7789262	CC	TT	1946751821
SNP_P4_19501_7789264	NC_021161.1	Ca_kabuli_chr02	7789264	GG	TT	1946751823
SNP_P4_19502_7789288	NC_021161.1	Ca_kabuli_chr02	7789288	GG	TT	1946751825
SNP_P4_19503_7789323	NC_021161.1	Ca_kabuli_chr02	7789323	AA	GG	1946751827
SNP_P4_19504_7791655	NC_021161.1	Ca_kabuli_chr02	7791655	AA	TT	1946751829
SNP_P4_19505_7791681	NC_021161.1	Ca_kabuli_chr02	7791681	AA	GG	1946751830

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_19507_7791808	NC_021161.1	Ca_kabuli_chr02	7791808	GG	AA	1946751835
SNP_P4_19509_7792810	NC_021161.1	Ca_kabuli_chr02	7792810	CC	TT	1946751837
SNP_P4_19510_7792815	NC_021161.1	Ca_kabuli_chr02	7792815	AA	GG	1946751839
SNP_P4_19511_7792830	NC_021161.1	Ca_kabuli_chr02	7792830	AA	CC	1946751841
SNP_P4_19513_7793059	NC_021161.1	Ca_kabuli_chr02	7793059	GG	AA	1946751843
SNP_P4_19515_7793351	NC_021161.1	Ca_kabuli_chr02	7793351	TT	GG	1946751845
SNP_P4_19516_7793558	NC_021161.1	Ca_kabuli_chr02	7793558	AA	GG	1946751847
SNP_P4_19517_7795028	NC_021161.1	Ca_kabuli_chr02	7795028	AA	GG	1946751849
SNP_P4_19518_7795077	NC_021161.1	Ca_kabuli_chr02	7795077	GG	AA	1946751851
SNP_P4_19519_7795088	NC_021161.1	Ca_kabuli_chr02	7795088	AA	GG	1946751853
SNP_P4_19521_7796738	NC_021161.1	Ca_kabuli_chr02	7796738	CC	TT	1946751855
SNP_P4_19522_7796741	NC_021161.1	Ca_kabuli_chr02	7796741	AA	CC	1946751857
SNP_P4_19523_7796756	NC_021161.1	Ca_kabuli_chr02	7796756	TT	AA	1946751859
SNP_P4_19524_7800416	NC_021161.1	Ca_kabuli_chr02	7800416	GG	AA	1946751861
SNP_P4_19525_7800640	NC_021161.1	Ca_kabuli_chr02	7800640	AA	CC	1946751864
SNP_P4_19526_7801130	NC_021161.1	Ca_kabuli_chr02	7801130	AA	TT	1946751866
SNP_P4_19528_7802130	NC_021161.1	Ca_kabuli_chr02	7802130	CC	TT	1946751868
SNP_P4_19529_7803951	NC_021161.1	Ca_kabuli_chr02	7803951	TT	CC	1946751870
SNP_P4_19530_7804995	NC_021161.1	Ca_kabuli_chr02	7804995	TT	AA	1946751872
SNP_P4_19531_7805307	NC_021161.1	Ca_kabuli_chr02	7805307	AA	GG	1946751874
SNP_P4_19532_7805326	NC_021161.1	Ca_kabuli_chr02	7805326	TT	CC	1946751876
SNP_P4_19533_7805889	NC_021161.1	Ca_kabuli_chr02	7805889	GG	TT	1946751878
SNP_P4_19534_7809134	NC_021161.1	Ca_kabuli_chr02	7809134	CC	TT	1946751880
SNP_P4_19535_7810039	NC_021161.1	Ca_kabuli_chr02	7810039	AA	TT	1946751882
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SNP_P4_19537_7810792	NC_021161.1	Ca_kabuli_chr02	7810792	TT	GG	1946751886
SNP_P4_19540_7812144	NC_021161.1	Ca_kabuli_chr02	7812144	AA	GG	1946751888
SNP_P4_19541_7812232	NC_021161.1	Ca_kabuli_chr02	7812232	CC	TT	1946751890
SNP_P4_19542_7812237	NC_021161.1	Ca_kabuli_chr02	7812237	GG	AA	1946751892
SNP_P4_19543_7812448	NC_021161.1	Ca_kabuli_chr02	7812448	TT	CC	1946751894
SNP_P4_19544_7812781	NC_021161.1	Ca_kabuli_chr02	7812781	TT	GG	1946751896
SNP_P4_19545_7813980	NC_021161.1	Ca_kabuli_chr02	7813980	CC	AA	1946751898
SNP_P4_19546_7814197	NC_021161.1	Ca_kabuli_chr02	7814197	TT	GG	1946751900
SNP_P4_19547_7814945	NC_021161.1	Ca_kabuli_chr02	7814945	TT	AA	1946751902
SNP_P4_19550_7817026	NC_021161.1	Ca_kabuli_chr02	7817026	TT	AA	1946751904
SNP_P4_19551_7817277	NC_021161.1	Ca_kabuli_chr02	7817277	TT	AA	1946751906
SNP_P4_19552_7817305	NC_021161.1	Ca_kabuli_chr02	7817305	CC	TT	1946751908
SNP_P4_19553_7817415	NC_021161.1	Ca_kabuli_chr02	7817415	CC	TT	1946751910
SNP_P4_19554_7817427	NC_021161.1	Ca_kabuli_chr02	7817427	CC	TT	1946751912
SNP_P4_19555_7817429	NC_021161.1	Ca_kabuli_chr02	7817429	CC	TT	1946751914
SNP_P4_19556_7817602	NC_021161.1	Ca_kabuli_chr02	7817602	GG	AA	1946751916

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_19559_7818722	NC_021161.1	Ca_kabuli_chr02	7818722	GG	AA	1946751920
SNP_P4_19560_7818836	NC_021161.1	Ca_kabuli_chr02	7818836	CC	TT	1946751922
SNP_P4_19561_7818956	NC_021161.1	Ca_kabuli_chr02	7818956	GG	AA	1946751924
SNP_P4_19563_7820993	NC_021161.1	Ca_kabuli_chr02	7820993	CC	TT	1946751927
SNP_P4_19564_7821008	NC_021161.1	Ca_kabuli_chr02	7821008	AA	GG	1946751929
SNP_P4_19565_7821054	NC_021161.1	Ca_kabuli_chr02	7821054	AA	CC	1946751931
SNP_P4_19566_7821058	NC_021161.1	Ca_kabuli_chr02	7821058	AA	TT	1946751933
SNP_P4_19568_7821502	NC_021161.1	Ca_kabuli_chr02	7821502	TT	GG	1946751935
SNP_P4_19569_7821800	NC_021161.1	Ca_kabuli_chr02	7821800	TT	CC	1946751937
SNP_P4_19570_7822613	NC_021161.1	Ca_kabuli_chr02	7822613	GG	AA	1946751939
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SNP_P4_19573_7822862	NC_021161.1	Ca_kabuli_chr02	7822862	CC	AA	1946751945
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SNP_P4_19575_7824190	NC_021161.1	Ca_kabuli_chr02	7824190	AA	TT	1946751949
SNP_P4_19576_7824197	NC_021161.1	Ca_kabuli_chr02	7824197	AA	TT	1946751951
SNP_P4_19577_7827878	NC_021161.1	Ca_kabuli_chr02	7827878	AA	TT	1946751953
SNP_P4_19578_7827928	NC_021161.1	Ca_kabuli_chr02	7827928	AA	GG	1946751955
SNP_P4_19579_7844013	NC_021161.1	Ca_kabuli_chr02	7844013	CC	TT	1946751957
SNP_P4_19580_7854220	NC_021161.1	Ca_kabuli_chr02	7854220	GG	AA	1946751959
SNP_P4_19581_7863068	NC_021161.1	Ca_kabuli_chr02	7863068	AA	TT	1946751961
SNP_P4_19582_7864532	NC_021161.1	Ca_kabuli_chr02	7864532	GG	AA	1946751963
SNP_P4_19583_7864535	NC_021161.1	Ca_kabuli_chr02	7864535	AA	TT	1946751965
SNP_P4_19584_7878175	NC_021161.1	Ca_kabuli_chr02	7878175	GG	TT	1946751967
SNP_P4_19586_7882580	NC_021161.1	Ca_kabuli_chr02	7882580	GG	AA	1946751969
SNP_P4_19587_7882590	NC_021161.1	Ca_kabuli_chr02	7882590	GG	CC	1946751971
SNP_P4_19588_7883282	NC_021161.1	Ca_kabuli_chr02	7883282	GG	CC	1946751973
SNP_P4_19589_7884437	NC_021161.1	Ca_kabuli_chr02	7884437	GG	AA	1946751975
SNP_P4_19590_7886270	NC_021161.1	Ca_kabuli_chr02	7886270	AA	CC	1946751977
SNP_P4_19593_7887481	NC_021161.1	Ca_kabuli_chr02	7887481	GG	AA	1946751979
SNP_P4_19594_7887487	NC_021161.1	Ca_kabuli_chr02	7887487	TT	CC	1946751981
SNP_P4_19596_7887555	NC_021161.1	Ca_kabuli_chr02	7887555	TT	CC	1946751983
SNP_P4_19597_7889352	NC_021161.1	Ca_kabuli_chr02	7889352	TT	AA	1946751985
SNP_P4_19598_7889368	NC_021161.1	Ca_kabuli_chr02	7889368	AA	GG	1946751987
SNP_P4_19599_7890109	NC_021161.1	Ca_kabuli_chr02	7890109	TT	CC	1946751989
SNP_P4_19600_7890140	NC_021161.1	Ca_kabuli_chr02	7890140	CC	AA	1946751991
SNP_P4_19602_7893277	NC_021161.1	Ca_kabuli_chr02	7893277	AA	GG	1946751993
SNP_P4_19603_7893294	NC_021161.1	Ca_kabuli_chr02	7893294	GG	CC	1946751995
SNP_P4_19607_7894513	NC_021161.1	Ca_kabuli_chr02	7894513	AA	GG	1946751997
SNP_P4_19608_7894533	NC_021161.1	Ca_kabuli_chr02	7894533	CC	GG	1946751999
SNP_P4_19609_7894609	NC_021161.1	Ca_kabuli_chr02	7894609	CC	AA	1946752001

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_19611_7894657	NC_021161.1	Ca_kabuli_chr02	7894657	TT	CC	1946752003
SNP_P4_19612_7894701	NC_021161.1	Ca_kabuli_chr02	7894701	AA	TT	1946752005
SNP_P4_19614_7894831	NC_021161.1	Ca_kabuli_chr02	7894831	TT	CC	1946752007
SNP_P4_19615_7894872	NC_021161.1	Ca_kabuli_chr02	7894872	CC	GG	1946752009
SNP_P4_19616_7895258	NC_021161.1	Ca_kabuli_chr02	7895258	AA	TT	1946752011
SNP_P4_19617_7895260	NC_021161.1	Ca_kabuli_chr02	7895260	AA	TT	1946752013
SNP_P4_19618_7895282	NC_021161.1	Ca_kabuli_chr02	7895282	AA	TT	1946752015
SNP_P4_19619_7895292	NC_021161.1	Ca_kabuli_chr02	7895292	TT	CC	1946752017
SNP_P4_19620_7896412	NC_021161.1	Ca_kabuli_chr02	7896412	AA	GG	1946752019
SNP_P4_19621_7896439	NC_021161.1	Ca_kabuli_chr02	7896439	TT	CC	1946752021
SNP_P4_19622_7896489	NC_021161.1	Ca_kabuli_chr02	7896489	AA	GG	1946752023
SNP_P4_19623_7896550	NC_021161.1	Ca_kabuli_chr02	7896550	CC	TT	1946752025
SNP_P4_19624_7896608	NC_021161.1	Ca_kabuli_chr02	7896608	TT	GG	1946752027
SNP_P4_19625_7896612	NC_021161.1	Ca_kabuli_chr02	7896612	CC	TT	1946752029
SNP_P4_19626_7896642	NC_021161.1	Ca_kabuli_chr02	7896642	GG	AA	1946752032
SNP_P4_19627_7896646	NC_021161.1	Ca_kabuli_chr02	7896646	TT	CC	1946752034
SNP_P4_19630_7898527	NC_021161.1	Ca_kabuli_chr02	7898527	TT	CC	1946752036
SNP_P4_19631_7898551	NC_021161.1	Ca_kabuli_chr02	7898551	TT	GG	1946752038
SNP_P4_19632_7898676	NC_021161.1	Ca_kabuli_chr02	7898676	GG	AA	1946752040
SNP_P4_19634_7898709	NC_021161.1	Ca_kabuli_chr02	7898709	AA	GG	1946752042
SNP_P4_19635_7898717	NC_021161.1	Ca_kabuli_chr02	7898717	GG	AA	1946752043
SNP_P4_19636_7898735	NC_021161.1	Ca_kabuli_chr02	7898735	GG	TT	1946752045
SNP_P4_19637_7898744	NC_021161.1	Ca_kabuli_chr02	7898744	AA	TT	1946752047
SNP_P4_19638_7898757	NC_021161.1	Ca_kabuli_chr02	7898757	CC	AA	1946752049
SNP_P4_19639_7898798	NC_021161.1	Ca_kabuli_chr02	7898798	GG	AA	1946752051
SNP_P4_19640_7898805	NC_021161.1	Ca_kabuli_chr02	7898805	AA	GG	1946752053
SNP_P4_19641_7898860	NC_021161.1	Ca_kabuli_chr02	7898860	AA	GG	1946752055
SNP_P4_19642_7898861	NC_021161.1	Ca_kabuli_chr02	7898861	CC	TT	1946752057
SNP_P4_19643_7898893	NC_021161.1	Ca_kabuli_chr02	7898893	CC	TT	1946752059
SNP_P4_19644_7898915	NC_021161.1	Ca_kabuli_chr02	7898915	AA	CC	1946752061
SNP_P4_19645_7898923	NC_021161.1	Ca_kabuli_chr02	7898923	TT	CC	1946752063
SNP_P4_19646_7898939	NC_021161.1	Ca_kabuli_chr02	7898939	TT	CC	1946752065
SNP_P4_19647_7898982	NC_021161.1	Ca_kabuli_chr02	7898982	TT	CC	1946752067
SNP_P4_19648_7898999	NC_021161.1	Ca_kabuli_chr02	7898999	CC	TT	1946752069
SNP_P4_19649_7899016	NC_021161.1	Ca_kabuli_chr02	7899016	TT	GG	1946752071
SNP_P4_19650_7899038	NC_021161.1	Ca_kabuli_chr02	7899038	GG	AA	1946752073
SNP_P4_19652_7899131	NC_021161.1	Ca_kabuli_chr02	7899131	AA	TT	1946752075
SNP_P4_19653_7899136	NC_021161.1	Ca_kabuli_chr02	7899136	GG	AA	1946752077
SNP_P4_19654_7899232	NC_021161.1	Ca_kabuli_chr02	7899232	CC	AA	1946752079
SNP_P4_19655_7899283	NC_021161.1	Ca_kabuli_chr02	7899283	CC	TT	1946752081
SNP_P4_19657_7909230	NC_021161.1	Ca_kabuli_chr02	7909230	GG	TT	1946752083
SNP_P4_19658_7909455	NC_021161.1	Ca_kabuli_chr02	7909455	TT	CC	1946752085

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_19660_7913332	NC_021161.1	Ca_kabuli_chr02	7913332	AA	TT	1946752089
SNP_P4_19662_7915513	NC_021161.1	Ca_kabuli_chr02	7915513	CC	TT	1946752091
SNP_P4_19663_7915549	NC_021161.1	Ca_kabuli_chr02	7915549	GG	AA	1946752093
SNP_P4_19664_7915771	NC_021161.1	Ca_kabuli_chr02	7915771	AA	GG	1946752095
SNP_P4_19665_7915781	NC_021161.1	Ca_kabuli_chr02	7915781	CC	TT	1946752097
SNP_P4_19666_7915813	NC_021161.1	Ca_kabuli_chr02	7915813	AA	CC	1946752099
SNP_P4_19667_7915827	NC_021161.1	Ca_kabuli_chr02	7915827	GG	AA	1946752101
SNP_P4_19668_7918106	NC_021161.1	Ca_kabuli_chr02	7918106	AA	CC	1946752103
SNP_P4_19669_7919265	NC_021161.1	Ca_kabuli_chr02	7919265	GG	TT	1946752105
SNP_P4_19670_7919515	NC_021161.1	Ca_kabuli_chr02	7919515	CC	TT	1946752107
SNP_P4_19671_7919605	NC_021161.1	Ca_kabuli_chr02	7919605	AA	TT	1946752109
SNP_P4_19672_7919628	NC_021161.1	Ca_kabuli_chr02	7919628	TT	GG	1946752111
SNP_P4_19673_7919630	NC_021161.1	Ca_kabuli_chr02	7919630	GG	AA	1946752113
SNP_P4_19674_7920385	NC_021161.1	Ca_kabuli_chr02	7920385	GG	AA	1946752115
SNP_P4_19675_7920397	NC_021161.1	Ca_kabuli_chr02	7920397	GG	AA	1946752117
SNP_P4_19676_7920403	NC_021161.1	Ca_kabuli_chr02	7920403	TT	CC	1946752120
SNP_P4_19677_7920656	NC_021161.1	Ca_kabuli_chr02	7920656	GG	AA	1946752122
SNP_P4_19678_7920673	NC_021161.1	Ca_kabuli_chr02	7920673	AA	TT	1946752124
SNP_P4_19679_7921905	NC_021161.1	Ca_kabuli_chr02	7921905	AA	CC	1946752126
SNP_P4_19680_7922888	NC_021161.1	Ca_kabuli_chr02	7922888	GG	CC	1946752128
SNP_P4_19681_7922932	NC_021161.1	Ca_kabuli_chr02	7922932	TT	GG	1946752130
SNP_P4_19682_7922940	NC_021161.1	Ca_kabuli_chr02	7922940	AA	GG	1946752132
SNP_P4_19683_7923116	NC_021161.1	Ca_kabuli_chr02	7923116	CC	GG	1946752134
SNP_P4_19684_7923118	NC_021161.1	Ca_kabuli_chr02	7923118	AA	GG	1946752136
SNP_P4_19685_7923232	NC_021161.1	Ca_kabuli_chr02	7923232	CC	TT	1946752138
SNP_P4_19686_7923280	NC_021161.1	Ca_kabuli_chr02	7923280	TT	CC	1946752140
SNP_P4_19687_7923401	NC_021161.1	Ca_kabuli_chr02	7923401	GG	AA	1946752142
SNP_P4_19688_7923414	NC_021161.1	Ca_kabuli_chr02	7923414	AA	CC	1946752144
SNP_P4_19689_7923642	NC_021161.1	Ca_kabuli_chr02	7923642	AA	CC	1946752146
SNP_P4_19690_7923654	NC_021161.1	Ca_kabuli_chr02	7923654	CC	TT	1946752148
SNP_P4_19691_7923731	NC_021161.1	Ca_kabuli_chr02	7923731	TT	CC	1946752150
SNP_P4_19692_7923742	NC_021161.1	Ca_kabuli_chr02	7923742	TT	CC	1946752152
SNP_P4_19693_7924022	NC_021161.1	Ca_kabuli_chr02	7924022	TT	CC	1946752154
SNP_P4_19694_7924051	NC_021161.1	Ca_kabuli_chr02	7924051	GG	TT	1946752156
SNP_P4_19695_7924114	NC_021161.1	Ca_kabuli_chr02	7924114	GG	AA	1946752158
SNP_P4_19697_7926018	NC_021161.1	Ca_kabuli_chr02	7926018	CC	TT	1946752160
SNP_P4_19698_7926366	NC_021161.1	Ca_kabuli_chr02	7926366	GG	AA	1946752162
SNP_P4_19699_7926412	NC_021161.1	Ca_kabuli_chr02	7926412	AA	GG	1946752164
SNP_P4_19701_7928229	NC_021161.1	Ca_kabuli_chr02	7928229	GG	AA	1946752166
SNP_P4_19702_7929005	NC_021161.1	Ca_kabuli_chr02	7929005	CC	TT	1946752168
SNP_P4_19703_7929010	NC_021161.1	Ca_kabuli_chr02	7929010	TT	CC	1946752170

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_19708_7935407	NC_021161.1	Ca_kabuli_chr02	7935407	GG	AA	1946752174
SNP_P4_19711_7935629	NC_021161.1	Ca_kabuli_chr02	7935629	AA	GG	1946752176
SNP_P4_19712_7935690	NC_021161.1	Ca_kabuli_chr02	7935690	GG	AA	1946752178
SNP_P4_19713_7935901	NC_021161.1	Ca_kabuli_chr02	7935901	TT	CC	1946752180
SNP_P4_19714_7935906	NC_021161.1	Ca_kabuli_chr02	7935906	CC	TT	1946752182
SNP_P4_19715_7935920	NC_021161.1	Ca_kabuli_chr02	7935920	TT	CC	1946752184
SNP_P4_19716_7935924	NC_021161.1	Ca_kabuli_chr02	7935924	GG	AA	1946752186
SNP_P4_19717_7935945	NC_021161.1	Ca_kabuli_chr02	7935945	AA	CC	1946752188
SNP_P4_19718_7936050	NC_021161.1	Ca_kabuli_chr02	7936050	CC	TT	1946752190
SNP_P4_19719_7936052	NC_021161.1	Ca_kabuli_chr02	7936052	TT	CC	1946752192
SNP_P4_19720_7936071	NC_021161.1	Ca_kabuli_chr02	7936071	GG	AA	1946752194
SNP_P4_19721_7936089	NC_021161.1	Ca_kabuli_chr02	7936089	GG	AA	1946752196
SNP_P4_19723_7936256	NC_021161.1	Ca_kabuli_chr02	7936256	GG	AA	1946752198
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SNP_P4_19725_7936358	NC_021161.1	Ca_kabuli_chr02	7936358	TT	CC	1946752202
SNP_P4_19726_7936360	NC_021161.1	Ca_kabuli_chr02	7936360	CC	TT	1946752204
SNP_P4_19727_7936399	NC_021161.1	Ca_kabuli_chr02	7936399	CC	AA	1946752206
SNP_P4_19728_7936402	NC_021161.1	Ca_kabuli_chr02	7936402	AA	GG	1946752208
SNP_P4_19729_7936619	NC_021161.1	Ca_kabuli_chr02	7936619	TT	CC	1946752211
SNP_P4_19730_7938065	NC_021161.1	Ca_kabuli_chr02	7938065	GG	AA	1946752213
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SNP_P4_19738_7940162	NC_021161.1	Ca_kabuli_chr02	7940162	AA	GG	1946752217
SNP_P4_19740_7940413	NC_021161.1	Ca_kabuli_chr02	7940413	AA	TT	1946752219
SNP_P4_19741_7940448	NC_021161.1	Ca_kabuli_chr02	7940448	CC	TT	1946752221
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SNP_P4_19743_7940648	NC_021161.1	Ca_kabuli_chr02	7940648	AA	TT	1946752225
SNP_P4_19744_7940713	NC_021161.1	Ca_kabuli_chr02	7940713	GG	AA	1946752227
SNP_P4_19745_7940716	NC_021161.1	Ca_kabuli_chr02	7940716	AA	CC	1946752229
SNP_P4_19746_7940727	NC_021161.1	Ca_kabuli_chr02	7940727	AA	CC	1946752231
SNP_P4_19747_7940733	NC_021161.1	Ca_kabuli_chr02	7940733	AA	CC	1946752233
SNP_P4_19748_7940762	NC_021161.1	Ca_kabuli_chr02	7940762	GG	CC	1946752235
SNP_P4_19749_7940772	NC_021161.1	Ca_kabuli_chr02	7940772	CC	TT	1946752237
SNP_P4_19751_7949324	NC_021161.1	Ca_kabuli_chr02	7949324	GG	AA	1946752239
SNP_P4_19753_7949765	NC_021161.1	Ca_kabuli_chr02	7949765	AA	GG	1946752241
SNP_P4_19754_7956305	NC_021161.1	Ca_kabuli_chr02	7956305	AA	CC	1946752243
SNP_P4_19755_7965248	NC_021161.1	Ca_kabuli_chr02	7965248	TT	AA	1946752245
SNP_P4_19756_7966499	NC_021161.1	Ca_kabuli_chr02	7966499	CC	TT	1946752247
SNP_P4_19758_8001448	NC_021161.1	Ca_kabuli_chr02	8001448	GG	AA	1946752249
SNP_P4_19759_8005080	NC_021161.1	Ca_kabuli_chr02	8005080	TT	CC	1946752251
SNP_P4_19760_8005170	NC_021161.1	Ca_kabuli_chr02	8005170	AA	GG	1946752253
SNP_P4_19761_8005318	NC_021161.1	Ca_kabuli_chr02	8005318	CC	TT	1946752255

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_19763_8005445	NC_021161.1	Ca_kabuli_chr02	8005445	AA	TT	1946752259
SNP_P4_19764_8005487	NC_021161.1	Ca_kabuli_chr02	8005487	GG	AA	1946752261
SNP_P4_19765_8005500	NC_021161.1	Ca_kabuli_chr02	8005500	AA	GG	1946752263
SNP_P4_19766_8005534	NC_021161.1	Ca_kabuli_chr02	8005534	GG	AA	1946752265
SNP_P4_19767_8005544	NC_021161.1	Ca_kabuli_chr02	8005544	AA	GG	1946752267
SNP_P4_19768_8005546	NC_021161.1	Ca_kabuli_chr02	8005546	CC	TT	1946752269
SNP_P4_19769_8005614	NC_021161.1	Ca_kabuli_chr02	8005614	TT	AA	1946752271
SNP_P4_19770_8005624	NC_021161.1	Ca_kabuli_chr02	8005624	TT	CC	1946752273
SNP_P4_19771_8005637	NC_021161.1	Ca_kabuli_chr02	8005637	AA	CC	1946752275
SNP_P4_19772_8005661	NC_021161.1	Ca_kabuli_chr02	8005661	AA	GG	1946752277
SNP_P4_19773_8005704	NC_021161.1	Ca_kabuli_chr02	8005704	AA	CC	1946752279
SNP_P4_19774_8005747	NC_021161.1	Ca_kabuli_chr02	8005747	AA	GG	1946752282
SNP_P4_19775_8006030	NC_021161.1	Ca_kabuli_chr02	8006030	TT	CC	1946752284
SNP_P4_19776_8006201	NC_021161.1	Ca_kabuli_chr02	8006201	AA	GG	1946752286
SNP_P4_19777_8010680	NC_021161.1	Ca_kabuli_chr02	8010680	TT	AA	1946752288
SNP_P4_19778_8027384	NC_021161.1	Ca_kabuli_chr02	8027384	GG	CC	1946752290
SNP_P4_19780_8035888	NC_021161.1	Ca_kabuli_chr02	8035888	GG	TT	1946752292
SNP_P4_19782_8051185	NC_021161.1	Ca_kabuli_chr02	8051185	CC	TT	1946752294
SNP_P4_19784_8094409	NC_021161.1	Ca_kabuli_chr02	8094409	AA	GG	1946752296
SNP_P4_19785_8102882	NC_021161.1	Ca_kabuli_chr02	8102882	GG	TT	1946752298
SNP_P4_19787_8140714	NC_021161.1	Ca_kabuli_chr02	8140714	AA	TT	1946752300
SNP_P4_19788_8147405	NC_021161.1	Ca_kabuli_chr02	8147405	AA	CC	1946752302
SNP_P4_19789_8163129	NC_021161.1	Ca_kabuli_chr02	8163129	CC	AA	1946752304
SNP_P4_19790_8163164	NC_021161.1	Ca_kabuli_chr02	8163164	TT	AA	1946752306
SNP_P4_19791_8163210	NC_021161.1	Ca_kabuli_chr02	8163210	GG	AA	1946752308
SNP_P4_19792_8163246	NC_021161.1	Ca_kabuli_chr02	8163246	CC	TT	1946752310
SNP_P4_19793_8163280	NC_021161.1	Ca_kabuli_chr02	8163280	GG	AA	1946752312
SNP_P4_19795_8180408	NC_021161.1	Ca_kabuli_chr02	8180408	CC	TT	1946752314
SNP_P4_19796_8228432	NC_021161.1	Ca_kabuli_chr02	8228432	CC	TT	1946752316
SNP_P4_19797_8228471	NC_021161.1	Ca_kabuli_chr02	8228471	AA	GG	1946752318
SNP_P4_19798_8228505	NC_021161.1	Ca_kabuli_chr02	8228505	CC	TT	1946752320
SNP_P4_19799_8228506	NC_021161.1	Ca_kabuli_chr02	8228506	TT	GG	1946752322
SNP_P4_19800_8269876	NC_021161.1	Ca_kabuli_chr02	8269876	TT	GG	1946752324
SNP_P4_19801_8269877	NC_021161.1	Ca_kabuli_chr02	8269877	TT	GG	1946752326
SNP_P4_19805_8365453	NC_021161.1	Ca_kabuli_chr02	8365453	AA	TT	1946752328
SNP_P4_19806_8365454	NC_021161.1	Ca_kabuli_chr02	8365454	AA	TT	1946752330
SNP_P4_19808_8419785	NC_021161.1	Ca_kabuli_chr02	8419785	TT	AA	1946752332
SNP_P4_19810_8420178	NC_021161.1	Ca_kabuli_chr02	8420178	AA	CC	1946752334
SNP_P4_19812_8420352	NC_021161.1	Ca_kabuli_chr02	8420352	CC	TT	1946752336
SNP_P4_19813_8420560	NC_021161.1	Ca_kabuli_chr02	8420560	AA	CC	1946752338
SNP_P4_19814_8420595	NC_021161.1	Ca_kabuli_chr02	8420595	CC	TT	1946752340

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_19816_8420678	NC_021161.1	Ca_kabuli_chr02	8420678	GG	AA	1946752344
SNP_P4_19817_8423651	NC_021161.1	Ca_kabuli_chr02	8423651	AA	GG	1946752346
SNP_P4_19818_8425858	NC_021161.1	Ca_kabuli_chr02	8425858	AA	TT	1946752348
SNP_P4_19819_8425870	NC_021161.1	Ca_kabuli_chr02	8425870	TT	AA	1946752350
SNP_P4_19820_8425871	NC_021161.1	Ca_kabuli_chr02	8425871	TT	CC	1946752351
SNP_P4_19821_8428789	NC_021161.1	Ca_kabuli_chr02	8428789	AA	TT	1946752353
SNP_P4_19822_8428868	NC_021161.1	Ca_kabuli_chr02	8428868	TT	CC	1946752355
SNP_P4_19823_8429873	NC_021161.1	Ca_kabuli_chr02	8429873	TT	AA	1946752357
SNP_P4_19824_8433706	NC_021161.1	Ca_kabuli_chr02	8433706	GG	CC	1946752359
SNP_P4_19825_8434653	NC_021161.1	Ca_kabuli_chr02	8434653	AA	TT	1946752361
SNP_P4_19826_8478740	NC_021161.1	Ca_kabuli_chr02	8478740	AA	CC	1946752363
SNP_P4_19827_8478767	NC_021161.1	Ca_kabuli_chr02	8478767	GG	TT	1946752365
SNP_P4_19829_8478860	NC_021161.1	Ca_kabuli_chr02	8478860	GG	CC	1946752367
SNP_P4_19830_8478862	NC_021161.1	Ca_kabuli_chr02	8478862	GG	TT	1946752369
SNP_P4_19832_8478939	NC_021161.1	Ca_kabuli_chr02	8478939	CC	AA	1946752371
SNP_P4_19833_8479011	NC_021161.1	Ca_kabuli_chr02	8479011	GG	AA	1946752373
SNP_P4_19834_8479012	NC_021161.1	Ca_kabuli_chr02	8479012	TT	AA	1946752375
SNP_P4_19835_8479013	NC_021161.1	Ca_kabuli_chr02	8479013	GG	AA	1946752377
SNP_P4_19836_8479119	NC_021161.1	Ca_kabuli_chr02	8479119	TT	AA	1946752379
SNP_P4_19837_8479141	NC_021161.1	Ca_kabuli_chr02	8479141	TT	AA	1946752381
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SNP_P4_19839_8479579	NC_021161.1	Ca_kabuli_chr02	8479579	CC	TT	1946752385
SNP_P4_19840_8479616	NC_021161.1	Ca_kabuli_chr02	8479616	GG	AA	1946752387
SNP_P4_19841_8479622	NC_021161.1	Ca_kabuli_chr02	8479622	GG	CC	1946752389
SNP_P4_19842_8479643	NC_021161.1	Ca_kabuli_chr02	8479643	AA	GG	1946752391
SNP_P4_19843_8479662	NC_021161.1	Ca_kabuli_chr02	8479662	GG	AA	1946752393
SNP_P4_19844_8479675	NC_021161.1	Ca_kabuli_chr02	8479675	GG	AA	1946752394
SNP_P4_19845_8479746	NC_021161.1	Ca_kabuli_chr02	8479746	AA	GG	1946752397
SNP_P4_19846_8479768	NC_021161.1	Ca_kabuli_chr02	8479768	GG	AA	1946752399
SNP_P4_19847_8479795	NC_021161.1	Ca_kabuli_chr02	8479795	AA	GG	1946752401
SNP_P4_19848_8479829	NC_021161.1	Ca_kabuli_chr02	8479829	TT	CC	1946752403
SNP_P4_19849_8479895	NC_021161.1	Ca_kabuli_chr02	8479895	AA	TT	1946752405
SNP_P4_19850_8480020	NC_021161.1	Ca_kabuli_chr02	8480020	GG	CC	1946752407
SNP_P4_19851_8510311	NC_021161.1	Ca_kabuli_chr02	8510311	AA	GG	1946752408
SNP_P4_19852_8527240	NC_021161.1	Ca_kabuli_chr02	8527240	TT	CC	1946752410
SNP_P4_19853_8527241	NC_021161.1	Ca_kabuli_chr02	8527241	TT	AA	1946752412
SNP_P4_19855_8542285	NC_021161.1	Ca_kabuli_chr02	8542285	TT	CC	1946752414
SNP_P4_19856_8586851	NC_021161.1	Ca_kabuli_chr02	8586851	AA	TT	1946752416
SNP_P4_19857_8592951	NC_021161.1	Ca_kabuli_chr02	8592951	AA	TT	1946752418
SNP_P4_19859_8597127	NC_021161.1	Ca_kabuli_chr02	8597127	AA	CC	1946752420
SNP_P4_19860_8609851	NC_021161.1	Ca_kabuli_chr02	8609851	GG	AA	1946752422

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_19862_8647676	NC_021161.1	Ca_kabuli_chr02	8647676	AA	GG	1946752426
SNP_P4_19863_8661863	NC_021161.1	Ca_kabuli_chr02	8661863	TT	GG	1946752428
SNP_P4_19864_8664225	NC_021161.1	Ca_kabuli_chr02	8664225	TT	GG	1946752430
SNP_P4_19865_8668130	NC_021161.1	Ca_kabuli_chr02	8668130	AA	CC	1946752432
SNP_P4_19866_8668131	NC_021161.1	Ca_kabuli_chr02	8668131	AA	GG	1946752435
SNP_P4_19869_8716399	NC_021161.1	Ca_kabuli_chr02	8716399	TT	CC	1946752437
SNP_P4_19870_8724174	NC_021161.1	Ca_kabuli_chr02	8724174	AA	GG	1946752439
SNP_P4_19871_8741174	NC_021161.1	Ca_kabuli_chr02	8741174	GG	AA	1946752441
SNP_P4_19872_8751514	NC_021161.1	Ca_kabuli_chr02	8751514	GG	AA	1946752443
SNP_P4_19873_8808469	NC_021161.1	Ca_kabuli_chr02	8808469	TT	AA	1946752445
SNP_P4_19874_8814213	NC_021161.1	Ca_kabuli_chr02	8814213	GG	AA	1946752447
SNP_P4_19876_8821600	NC_021161.1	Ca_kabuli_chr02	8821600	AA	CC	1946752449
SNP_P4_19877_8821604	NC_021161.1	Ca_kabuli_chr02	8821604	TT	GG	1946752451
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SNP_P4_19882_9256869	NC_021161.1	Ca_kabuli_chr02	9256869	CC	TT	1946752459
SNP_P4_19883_9267740	NC_021161.1	Ca_kabuli_chr02	9267740	AA	CC	1946752461
SNP_P4_19884_9271927	NC_021161.1	Ca_kabuli_chr02	9271927	GG	AA	1946752463
SNP_P4_19885_9271992	NC_021161.1	Ca_kabuli_chr02	9271992	TT	CC	1946752465
SNP_P4_19886_9272879	NC_021161.1	Ca_kabuli_chr02	9272879	CC	GG	1946752467
SNP_P4_19888_9289991	NC_021161.1	Ca_kabuli_chr02	9289991	CC	GG	1946752470
SNP_P4_19889_9300452	NC_021161.1	Ca_kabuli_chr02	9300452	CC	TT	1946752472
SNP_P4_19890_9311830	NC_021161.1	Ca_kabuli_chr02	9311830	CC	TT	1946752474
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SNP_P4_19893_9360423	NC_021161.1	Ca_kabuli_chr02	9360423	TT	GG	1946752480
SNP_P4_19894_9373902	NC_021161.1	Ca_kabuli_chr02	9373902	AA	TT	1946752482
SNP_P4_19895_9378629	NC_021161.1	Ca_kabuli_chr02	9378629	AA	CC	1946752484
SNP_P4_19896_9389837	NC_021161.1	Ca_kabuli_chr02	9389837	TT	AA	1946752485
SNP_P4_19897_9408293	NC_021161.1	Ca_kabuli_chr02	9408293	TT	CC	1946752487
SNP_P4_19898_9408295	NC_021161.1	Ca_kabuli_chr02	9408295	CC	AA	1946752489
SNP_P4_19899_9408298	NC_021161.1	Ca_kabuli_chr02	9408298	TT	CC	1946752491
SNP_P4_19902_9441999	NC_021161.1	Ca_kabuli_chr02	9441999	CC	TT	1946752493
SNP_P4_19903_9468319	NC_021161.1	Ca_kabuli_chr02	9468319	AA	GG	1946752495
SNP_P4_19904_9468628	NC_021161.1	Ca_kabuli_chr02	9468628	AA	GG	1946752497
SNP_P4_19905_9468632	NC_021161.1	Ca_kabuli_chr02	9468632	CC	TT	1946752499
SNP_P4_19906_9468652	NC_021161.1	Ca_kabuli_chr02	9468652	TT	GG	1946752501
SNP_P4_19907_9468760	NC_021161.1	Ca_kabuli_chr02	9468760	TT	CC	1946752503
SNP_P4_19909_9494001	NC_021161.1	Ca_kabuli_chr02	9494001	CC	TT	1946752505
SNP_P4_19911_9494121	NC_021161.1	Ca_kabuli_chr02	9494121	AA	GG	1946752507

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_19915_9494327	NC_021161.1	Ca_kabuli_chr02	9494327	CC	GG	1946752513
SNP_P4_19916_9494348	NC_021161.1	Ca_kabuli_chr02	9494348	AA	CC	1946752515
SNP_P4_19917_9494377	NC_021161.1	Ca_kabuli_chr02	9494377	TT	CC	1946752517
SNP_P4_19918_9494394	NC_021161.1	Ca_kabuli_chr02	9494394	TT	AA	1946752519
SNP_P4_19919_9494399	NC_021161.1	Ca_kabuli_chr02	9494399	CC	GG	1946752521
SNP_P4_19920_9494402	NC_021161.1	Ca_kabuli_chr02	9494402	CC	AA	1946752523
SNP_P4_19921_9494473	NC_021161.1	Ca_kabuli_chr02	9494473	CC	TT	1946752525
SNP_P4_19922_9494484	NC_021161.1	Ca_kabuli_chr02	9494484	CC	GG	1946752527
SNP_P4_19923_9498263	NC_021161.1	Ca_kabuli_chr02	9498263	AA	GG	1946752529
SNP_P4_19924_9498604	NC_021161.1	Ca_kabuli_chr02	9498604	AA	GG	1946752531
SNP_P4_19925_9498620	NC_021161.1	Ca_kabuli_chr02	9498620	TT	CC	1946752533
SNP_P4_19926_9498863	NC_021161.1	Ca_kabuli_chr02	9498863	TT	AA	1946752535
SNP_P4_19927_9498915	NC_021161.1	Ca_kabuli_chr02	9498915	TT	CC	1946752536
SNP_P4_19928_9498966	NC_021161.1	Ca_kabuli_chr02	9498966	AA	GG	1946752538
SNP_P4_19929_9499244	NC_021161.1	Ca_kabuli_chr02	9499244	AA	GG	1946752540
SNP_P4_19930_9499509	NC_021161.1	Ca_kabuli_chr02	9499509	CC	TT	1946752542
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SNP_P4_19936_9612958	NC_021161.1	Ca_kabuli_chr02	9612958	AA	CC	1946752550
SNP_P4_19937_9612976	NC_021161.1	Ca_kabuli_chr02	9612976	TT	CC	1946752552
SNP_P4_19938_9613181	NC_021161.1	Ca_kabuli_chr02	9613181	AA	GG	1946752553
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SNP_P4_19940_9613228	NC_021161.1	Ca_kabuli_chr02	9613228	TT	CC	1946752557
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SNP_P4_19942_9613259	NC_021161.1	Ca_kabuli_chr02	9613259	TT	CC	1946752561
SNP_P4_19943_9613266	NC_021161.1	Ca_kabuli_chr02	9613266	CC	TT	1946752563
SNP_P4_19944_9613343	NC_021161.1	Ca_kabuli_chr02	9613343	AA	GG	1946752565
SNP_P4_19945_9613360	NC_021161.1	Ca_kabuli_chr02	9613360	TT	CC	1946752567
SNP_P4_19946_9613366	NC_021161.1	Ca_kabuli_chr02	9613366	GG	AA	1946752569
SNP_P4_19947_9613372	NC_021161.1	Ca_kabuli_chr02	9613372	AA	GG	1946752571
SNP_P4_19948_9613375	NC_021161.1	Ca_kabuli_chr02	9613375	CC	TT	1946752573
SNP_P4_19949_9613376	NC_021161.1	Ca_kabuli_chr02	9613376	TT	CC	1946752575
SNP_P4_19950_9614571	NC_021161.1	Ca_kabuli_chr02	9614571	TT	CC	1946752577
SNP_P4_19951_9647537	NC_021161.1	Ca_kabuli_chr02	9647537	TT	CC	1946752579
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SNP_P4_19953_9647554	NC_021161.1	Ca_kabuli_chr02	9647554	CC	AA	1946752583
SNP_P4_19954_9647556	NC_021161.1	Ca_kabuli_chr02	9647556	GG	AA	1946752585
SNP_P4_19955_9647583	NC_021161.1	Ca_kabuli_chr02	9647583	AA	TT	1946752587
SNP_P4_19956_9647585	NC_021161.1	Ca_kabuli_chr02	9647585	TT	AA	1946752589

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_19959_9652756	NC_021161.1	Ca_kabuli_chr02	9652756	TT	AA	1946752595
SNP_P4_19960_9661465	NC_021161.1	Ca_kabuli_chr02	9661465	CC	AA	1946752597
SNP_P4_19961_9664171	NC_021161.1	Ca_kabuli_chr02	9664171	TT	CC	1946752599
SNP_P4_19962_9689649	NC_021161.1	Ca_kabuli_chr02	9689649	TT	CC	1946752601
SNP_P4_19964_9690579	NC_021161.1	Ca_kabuli_chr02	9690579	CC	TT	1946752603
SNP_P4_19965_9693977	NC_021161.1	Ca_kabuli_chr02	9693977	GG	AA	1946752605
SNP_P4_19966_9694205	NC_021161.1	Ca_kabuli_chr02	9694205	AA	GG	1946752607
SNP_P4_19969_9722427	NC_021161.1	Ca_kabuli_chr02	9722427	CC	TT	1946752609
SNP_P4_19970_9737338	NC_021161.1	Ca_kabuli_chr02	9737338	TT	CC	1946752611
SNP_P4_19971_9737339	NC_021161.1	Ca_kabuli_chr02	9737339	GG	TT	1946752613
SNP_P4_19972_9737397	NC_021161.1	Ca_kabuli_chr02	9737397	GG	TT	1946752615
SNP_P4_19973_9776561	NC_021161.1	Ca_kabuli_chr02	9776561	GG	CC	1946752617
SNP_P4_19974_9776583	NC_021161.1	Ca_kabuli_chr02	9776583	TT	CC	1946752619
SNP_P4_19975_9776726	NC_021161.1	Ca_kabuli_chr02	9776726	GG	TT	1946752621
SNP_P4_19976_9776782	NC_021161.1	Ca_kabuli_chr02	9776782	GG	AA	1946752623
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SNP_P4_19982_9782636	NC_021161.1	Ca_kabuli_chr02	9782636	GG	TT	1946752635
SNP_P4_19983_9782825	NC_021161.1	Ca_kabuli_chr02	9782825	AA	GG	1946752637
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SNP_P4_19987_9788662	NC_021161.1	Ca_kabuli_chr02	9788662	TT	CC	1946752645
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SNP_P4_19989_9803114	NC_021161.1	Ca_kabuli_chr02	9803114	GG	AA	1946752649
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SNP_P4_19991_9843673	NC_021161.1	Ca_kabuli_chr02	9843673	AA	CC	1946752653
SNP_P4_19992_9868203	NC_021161.1	Ca_kabuli_chr02	9868203	CC	TT	1946752655
SNP_P4_19994_9881706	NC_021161.1	Ca_kabuli_chr02	9881706	TT	CC	1946752657
SNP_P4_19995_9885533	NC_021161.1	Ca_kabuli_chr02	9885533	CC	TT	1946752659
SNP_P4_19996_9885545	NC_021161.1	Ca_kabuli_chr02	9885545	AA	GG	1946752661
SNP_P4_19997_9896610	NC_021161.1	Ca_kabuli_chr02	9896610	GG	TT	1946752663
SNP_P4_19998_9898941	NC_021161.1	Ca_kabuli_chr02	9898941	TT	GG	1946752665
SNP_P4_20001_9929836	NC_021161.1	Ca_kabuli_chr02	9929836	AA	CC	1946752667
SNP_P4_20002_9929872	NC_021161.1	Ca_kabuli_chr02	9929872	TT	CC	1946752669
SNP_P4_20003_9929873	NC_021161.1	Ca_kabuli_chr02	9929873	AA	GG	1946752671
SNP_P4_20004_9929897	NC_021161.1	Ca_kabuli_chr02	9929897	TT	GG	1946752673

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_20006_9935313	NC_021161.1	Ca_kabuli_chr02	9935313	AA	GG	1946752677
SNP_P4_20007_9970182	NC_021161.1	Ca_kabuli_chr02	9970182	AA	TT	1946752679
SNP_P4_20008_9974505	NC_021161.1	Ca_kabuli_chr02	9974505	GG	AA	1946752681
SNP_P4_20009_9983656	NC_021161.1	Ca_kabuli_chr02	9983656	TT	CC	1946752683
SNP_P4_20011_9997988	NC_021161.1	Ca_kabuli_chr02	9997988	AA	GG	1946752685
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SNP_P4_20013_10011550	NC_021161.1	Ca_kabuli_chr02	10011550	AA	GG	1946752689
SNP_P4_20014_10013817	NC_021161.1	Ca_kabuli_chr02	10013817	TT	CC	1946752691
SNP_P4_20017_10082410	NC_021161.1	Ca_kabuli_chr02	10082410	GG	TT	1946752693
SNP_P4_20018_10083364	NC_021161.1	Ca_kabuli_chr02	10083364	TT	AA	1946752695
SNP_P4_20020_10104782	NC_021161.1	Ca_kabuli_chr02	10104782	AA	GG	1946752697
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SNP_P4_20024_10113157	NC_021161.1	Ca_kabuli_chr02	10113157	GG	AA	1946752705
SNP_P4_20025_10113169	NC_021161.1	Ca_kabuli_chr02	10113169	GG	AA	1946752707
SNP_P4_20026_10116758	NC_021161.1	Ca_kabuli_chr02	10116758	AA	TT	1946752709
SNP_P4_20028_10121964	NC_021161.1	Ca_kabuli_chr02	10121964	TT	AA	1946752711
SNP_P4_20029_10126555	NC_021161.1	Ca_kabuli_chr02	10126555	TT	AA	1946752713
SNP_P4_20030_10134529	NC_021161.1	Ca_kabuli_chr02	10134529	CC	TT	1946752715
SNP_P4_20032_10161575	NC_021161.1	Ca_kabuli_chr02	10161575	TT	GG	1946752717
SNP_P4_20033_10168567	NC_021161.1	Ca_kabuli_chr02	10168567	AA	GG	1946752719
SNP_P4_20034_10168570	NC_021161.1	Ca_kabuli_chr02	10168570	TT	AA	1946752721
SNP_P4_20036_10175093	NC_021161.1	Ca_kabuli_chr02	10175093	CC	TT	1946752723
SNP_P4_20037_10186009	NC_021161.1	Ca_kabuli_chr02	10186009	GG	AA	1946752725
SNP_P4_20038_10202073	NC_021161.1	Ca_kabuli_chr02	10202073	TT	AA	1946752727
SNP_P4_20039_10208016	NC_021161.1	Ca_kabuli_chr02	10208016	AA	GG	1946752729
SNP_P4_20040_10208020	NC_021161.1	Ca_kabuli_chr02	10208020	AA	TT	1946752731
SNP_P4_20041_10254842	NC_021161.1	Ca_kabuli_chr02	10254842	TT	CC	1946752733
SNP_P4_20043_10321013	NC_021161.1	Ca_kabuli_chr02	10321013	GG	TT	1946752735
SNP_P4_20044_10322795	NC_021161.1	Ca_kabuli_chr02	10322795	GG	AA	1946752737
SNP_P4_20045_10326455	NC_021161.1	Ca_kabuli_chr02	10326455	GG	TT	1946752739
SNP_P4_20046_10328865	NC_021161.1	Ca_kabuli_chr02	10328865	GG	TT	1946752741
SNP_P4_20047_10361681	NC_021161.1	Ca_kabuli_chr02	10361681	TT	GG	1946752743
SNP_P4_20048_10362062	NC_021161.1	Ca_kabuli_chr02	10362062	AA	GG	1946752745
SNP_P4_20049_10362088	NC_021161.1	Ca_kabuli_chr02	10362088	TT	CC	1946752747
SNP_P4_20050_10362144	NC_021161.1	Ca_kabuli_chr02	10362144	AA	GG	1946752749
SNP_P4_20051_10362153	NC_021161.1	Ca_kabuli_chr02	10362153	TT	CC	1946752751
SNP_P4_20052_10362194	NC_021161.1	Ca_kabuli_chr02	10362194	CC	GG	1946752753
SNP_P4_20053_10362421	NC_021161.1	Ca_kabuli_chr02	10362421	TT	CC	1946752755
SNP_P4_20055_10362507	NC_021161.1	Ca_kabuli_chr02	10362507	AA	TT	1946752757

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_20057_10367993	NC_021161.1	Ca_kabuli_chr02	10367993	TT	CC	1946752761
SNP_P4_20058_10380846	NC_021161.1	Ca_kabuli_chr02	10380846	TT	CC	1946752763
SNP_P4_20060_10395215	NC_021161.1	Ca_kabuli_chr02	10395215	CC	AA	1946752765
SNP_P4_20061_10395809	NC_021161.1	Ca_kabuli_chr02	10395809	AA	TT	1946752767
SNP_P4_20062_10395813	NC_021161.1	Ca_kabuli_chr02	10395813	TT	AA	1946752769
SNP_P4_20064_10473937	NC_021161.1	Ca_kabuli_chr02	10473937	GG	TT	1946752771
SNP_P4_20065_10500523	NC_021161.1	Ca_kabuli_chr02	10500523	TT	CC	1946752773
SNP_P4_20067_10540564	NC_021161.1	Ca_kabuli_chr02	10540564	CC	AA	1946752775
SNP_P4_20068_10540607	NC_021161.1	Ca_kabuli_chr02	10540607	CC	GG	1946752777
SNP_P4_20069_10540612	NC_021161.1	Ca_kabuli_chr02	10540612	TT	CC	1946752779
SNP_P4_20070_10540721	NC_021161.1	Ca_kabuli_chr02	10540721	GG	AA	1946752781
SNP_P4_20071_10541017	NC_021161.1	Ca_kabuli_chr02	10541017	TT	GG	1946752783
SNP_P4_20072_10541102	NC_021161.1	Ca_kabuli_chr02	10541102	CC	TT	1946752785
SNP_P4_20073_10541106	NC_021161.1	Ca_kabuli_chr02	10541106	TT	GG	1946752787
SNP_P4_20074_10541135	NC_021161.1	Ca_kabuli_chr02	10541135	AA	TT	1946752789
SNP_P4_20075_10541144	NC_021161.1	Ca_kabuli_chr02	10541144	AA	GG	1946752792
SNP_P4_20076_10541157	NC_021161.1	Ca_kabuli_chr02	10541157	AA	GG	1946752794
SNP_P4_20077_10541166	NC_021161.1	Ca_kabuli_chr02	10541166	AA	CC	1946752796
SNP_P4_20078_10541193	NC_021161.1	Ca_kabuli_chr02	10541193	AA	GG	1946752798
SNP_P4_20079_10541203	NC_021161.1	Ca_kabuli_chr02	10541203	GG	AA	1946752800
SNP_P4_20080_10541535	NC_021161.1	Ca_kabuli_chr02	10541535	CC	GG	1946752802
SNP_P4_20081_10544398	NC_021161.1	Ca_kabuli_chr02	10544398	AA	TT	1946752804
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SNP_P4_20083_10544629	NC_021161.1	Ca_kabuli_chr02	10544629	GG	AA	1946752807
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SNP_P4_20087_10599713	NC_021161.1	Ca_kabuli_chr02	10599713	AA	CC	1946752813
SNP_P4_20088_10599714	NC_021161.1	Ca_kabuli_chr02	10599714	AA	TT	1946752815
SNP_P4_20089_10600624	NC_021161.1	Ca_kabuli_chr02	10600624	TT	AA	1946752817
SNP_P4_20091_10628348	NC_021161.1	Ca_kabuli_chr02	10628348	CC	TT	1946752819
SNP_P4_20092_10664264	NC_021161.1	Ca_kabuli_chr02	10664264	GG	CC	1946752821
SNP_P4_20093_10664624	NC_021161.1	Ca_kabuli_chr02	10664624	TT	AA	1946752823
SNP_P4_20094_10664667	NC_021161.1	Ca_kabuli_chr02	10664667	AA	GG	1946752825
SNP_P4_20095_10664677	NC_021161.1	Ca_kabuli_chr02	10664677	TT	GG	1946752827
SNP_P4_20096_10664697	NC_021161.1	Ca_kabuli_chr02	10664697	TT	CC	1946752829
SNP_P4_20097_10664711	NC_021161.1	Ca_kabuli_chr02	10664711	TT	CC	1946752831
SNP_P4_20098_10664715	NC_021161.1	Ca_kabuli_chr02	10664715	TT	GG	1946752833
SNP_P4_20099_10664729	NC_021161.1	Ca_kabuli_chr02	10664729	TT	CC	1946752835
SNP_P4_20100_10664751	NC_021161.1	Ca_kabuli_chr02	10664751	AA	GG	1946752837
SNP_P4_20101_10664753	NC_021161.1	Ca_kabuli_chr02	10664753	AA	CC	1946752839
SNP_P4_20102_10682185	NC_021161.1	Ca_kabuli_chr02	10682185	AA	CC	1946752841

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_20105_10722930	NC_021161.1	Ca_kabuli_chr02	10722930	GG	AA	1946752848
SNP_P4_20106_10727748	NC_021161.1	Ca_kabuli_chr02	10727748	GG	AA	1946752850
SNP_P4_20108_10766081	NC_021161.1	Ca_kabuli_chr02	10766081	CC	TT	1946752852
SNP_P4_20109_10766997	NC_021161.1	Ca_kabuli_chr02	10766997	CC	AA	1946752854
SNP_P4_20110_10767041	NC_021161.1	Ca_kabuli_chr02	10767041	AA	CC	1946752856
SNP_P4_20111_10767213	NC_021161.1	Ca_kabuli_chr02	10767213	AA	GG	1946752858
SNP_P4_20112_10767437	NC_021161.1	Ca_kabuli_chr02	10767437	CC	TT	1946752860
SNP_P4_20113_10767446	NC_021161.1	Ca_kabuli_chr02	10767446	GG	AA	1946752862
SNP_P4_20114_10767447	NC_021161.1	Ca_kabuli_chr02	10767447	GG	AA	1946752864
SNP_P4_20115_10767573	NC_021161.1	Ca_kabuli_chr02	10767573	GG	AA	1946752866
SNP_P4_20116_10767614	NC_021161.1	Ca_kabuli_chr02	10767614	TT	CC	1946752868
SNP_P4_20117_10767631	NC_021161.1	Ca_kabuli_chr02	10767631	TT	AA	1946752869
SNP_P4_20118_10767634	NC_021161.1	Ca_kabuli_chr02	10767634	AA	TT	1946752870
SNP_P4_20119_10777329	NC_021161.1	Ca_kabuli_chr02	10777329	CC	GG	1946752871
SNP_P4_20120_10777352	NC_021161.1	Ca_kabuli_chr02	10777352	TT	CC	1946752872
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SNP_P4_20122_10777359	NC_021161.1	Ca_kabuli_chr02	10777359	GG	AA	1946752874
SNP_P4_20123_10777388	NC_021161.1	Ca_kabuli_chr02	10777388	CC	AA	1946752875
SNP_P4_20124_10777423	NC_021161.1	Ca_kabuli_chr02	10777423	TT	GG	1946752876
SNP_P4_20125_10777458	NC_021161.1	Ca_kabuli_chr02	10777458	AA	GG	1946752877
SNP_P4_20126_10777472	NC_021161.1	Ca_kabuli_chr02	10777472	GG	TT	1946752878
SNP_P4_20127_10777522	NC_021161.1	Ca_kabuli_chr02	10777522	TT	CC	1946752879
SNP_P4_20128_10777577	NC_021161.1	Ca_kabuli_chr02	10777577	GG	AA	1946752880
SNP_P4_20129_10777582	NC_021161.1	Ca_kabuli_chr02	10777582	AA	GG	1946752881
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SNP_P4_20131_10777643	NC_021161.1	Ca_kabuli_chr02	10777643	GG	TT	1946752883
SNP_P4_20133_10778495	NC_021161.1	Ca_kabuli_chr02	10778495	TT	CC	1946752884
SNP_P4_20134_10778525	NC_021161.1	Ca_kabuli_chr02	10778525	TT	CC	1946752885
SNP_P4_20135_10778534	NC_021161.1	Ca_kabuli_chr02	10778534	CC	AA	1946752886
SNP_P4_20136_10778739	NC_021161.1	Ca_kabuli_chr02	10778739	AA	TT	1946752887
SNP_P4_20137_10778744	NC_021161.1	Ca_kabuli_chr02	10778744	TT	CC	1946752888
SNP_P4_20138_10778745	NC_021161.1	Ca_kabuli_chr02	10778745	CC	TT	1946752889
SNP_P4_20139_10778781	NC_021161.1	Ca_kabuli_chr02	10778781	TT	CC	1946752890
SNP_P4_20140_10778787	NC_021161.1	Ca_kabuli_chr02	10778787	AA	CC	1946752891
SNP_P4_20141_10778789	NC_021161.1	Ca_kabuli_chr02	10778789	AA	GG	1946752892
SNP_P4_20142_10779028	NC_021161.1	Ca_kabuli_chr02	10779028	CC	TT	1946752893
SNP_P4_20143_10779054	NC_021161.1	Ca_kabuli_chr02	10779054	TT	CC	1946752894
SNP_P4_20144_10779060	NC_021161.1	Ca_kabuli_chr02	10779060	GG	AA	1946752895
SNP_P4_20145_10779069	NC_021161.1	Ca_kabuli_chr02	10779069	TT	CC	1946752896
SNP_P4_20147_10779156	NC_021161.1	Ca_kabuli_chr02	10779156	TT	CC	1946752897

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_20149_10779195	NC_021161.1	Ca_kabuli_chr02	10779195	TT	CC	1946752899
SNP_P4_20150_10779312	NC_021161.1	Ca_kabuli_chr02	10779312	TT	CC	1946752900
SNP_P4_20151_10779338	NC_021161.1	Ca_kabuli_chr02	10779338	CC	TT	1946752901
SNP_P4_20152_10779374	NC_021161.1	Ca_kabuli_chr02	10779374	TT	CC	1946752902
SNP_P4_20153_10779384	NC_021161.1	Ca_kabuli_chr02	10779384	TT	CC	1946752903
SNP_P4_20154_10779386	NC_021161.1	Ca_kabuli_chr02	10779386	TT	AA	1946752904
SNP_P4_20155_10779439	NC_021161.1	Ca_kabuli_chr02	10779439	AA	GG	1946752905
SNP_P4_20156_10779528	NC_021161.1	Ca_kabuli_chr02	10779528	CC	TT	1946752906
SNP_P4_20157_10789809	NC_021161.1	Ca_kabuli_chr02	10789809	AA	GG	1946752907
SNP_P4_20158_10789842	NC_021161.1	Ca_kabuli_chr02	10789842	TT	CC	1946752908
SNP_P4_20159_10789973	NC_021161.1	Ca_kabuli_chr02	10789973	AA	GG	1946752909
SNP_P4_20160_10790042	NC_021161.1	Ca_kabuli_chr02	10790042	AA	GG	1946752910
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SNP_P4_20162_10794596	NC_021161.1	Ca_kabuli_chr02	10794596	GG	AA	1946752912
SNP_P4_20163_10796699	NC_021161.1	Ca_kabuli_chr02	10796699	GG	AA	1946752913
SNP_P4_20164_10796725	NC_021161.1	Ca_kabuli_chr02	10796725	GG	AA	1946752914
SNP_P4_20165_10796916	NC_021161.1	Ca_kabuli_chr02	10796916	CC	TT	1946752915
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SNP_P4_20169_10833550	NC_021161.1	Ca_kabuli_chr02	10833550	TT	CC	1946752919
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SNP_P4_20176_10834882	NC_021161.1	Ca_kabuli_chr02	10834882	GG	AA	1946752926
SNP_P4_20177_10834891	NC_021161.1	Ca_kabuli_chr02	10834891	TT	CC	1946752927
SNP_P4_20178_10834984	NC_021161.1	Ca_kabuli_chr02	10834984	TT	CC	1946752928
SNP_P4_20179_10835065	NC_021161.1	Ca_kabuli_chr02	10835065	TT	CC	1946752929
SNP_P4_20180_10835093	NC_021161.1	Ca_kabuli_chr02	10835093	TT	CC	1946752930
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SNP_P4_20182_10835167	NC_021161.1	Ca_kabuli_chr02	10835167	TT	CC	1946752932
SNP_P4_20183_10835173	NC_021161.1	Ca_kabuli_chr02	10835173	CC	TT	1946752933
SNP_P4_20184_10835179	NC_021161.1	Ca_kabuli_chr02	10835179	AA	GG	1946752934
SNP_P4_20185_10835201	NC_021161.1	Ca_kabuli_chr02	10835201	TT	CC	1946752935
SNP_P4_20186_10840879	NC_021161.1	Ca_kabuli_chr02	10840879	AA	GG	1946752936
SNP_P4_20187_10840939	NC_021161.1	Ca_kabuli_chr02	10840939	AA	GG	1946752937
SNP_P4_20188_10840950	NC_021161.1	Ca_kabuli_chr02	10840950	GG	AA	1946752938
SNP_P4_20189_10841037	NC_021161.1	Ca_kabuli_chr02	10841037	AA	TT	1946752939

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_20192_10851090	NC_021161.1	Ca_kabuli_chr02	10851090	CC	TT	1946752942
SNP_P4_20193_10851224	NC_021161.1	Ca_kabuli_chr02	10851224	AA	GG	1946752943
SNP_P4_20194_10851248	NC_021161.1	Ca_kabuli_chr02	10851248	CC	TT	1946752944
SNP_P4_20195_10878851	NC_021161.1	Ca_kabuli_chr02	10878851	AA	GG	1946752945
SNP_P4_20196_10878855	NC_021161.1	Ca_kabuli_chr02	10878855	AA	GG	1946752946
SNP_P4_20197_10878862	NC_021161.1	Ca_kabuli_chr02	10878862	TT	CC	1946752947
SNP_P4_20198_10878921	NC_021161.1	Ca_kabuli_chr02	10878921	AA	GG	1946752948
SNP_P4_20199_10881900	NC_021161.1	Ca_kabuli_chr02	10881900	AA	GG	1946752949
SNP_P4_20200_10888810	NC_021161.1	Ca_kabuli_chr02	10888810	TT	CC	1946752950
SNP_P4_20201_10888814	NC_021161.1	Ca_kabuli_chr02	10888814	GG	AA	1946752951
SNP_P4_20202_10888820	NC_021161.1	Ca_kabuli_chr02	10888820	CC	GG	1946752952
SNP_P4_20203_10890747	NC_021161.1	Ca_kabuli_chr02	10890747	AA	CC	1946752953
SNP_P4_20205_10890774	NC_021161.1	Ca_kabuli_chr02	10890774	AA	TT	1946752954
SNP_P4_20206_10893891	NC_021161.1	Ca_kabuli_chr02	10893891	AA	GG	1946752955
SNP_P4_20207_10893905	NC_021161.1	Ca_kabuli_chr02	10893905	TT	CC	1946752956
SNP_P4_20208_10894234	NC_021161.1	Ca_kabuli_chr02	10894234	CC	TT	1946752957
SNP_P4_20209_10894291	NC_021161.1	Ca_kabuli_chr02	10894291	TT	CC	1946752958
SNP_P4_20210_10894299	NC_021161.1	Ca_kabuli_chr02	10894299	TT	CC	1946752959
SNP_P4_20212_10924013	NC_021161.1	Ca_kabuli_chr02	10924013	AA	GG	1946752961
SNP_P4_20213_10926989	NC_021161.1	Ca_kabuli_chr02	10926989	TT	CC	1946752963
SNP_P4_20215_10947995	NC_021161.1	Ca_kabuli_chr02	10947995	AA	GG	1946752965
SNP_P4_20217_10956593	NC_021161.1	Ca_kabuli_chr02	10956593	TT	CC	1946752967
SNP_P4_20218_11010066	NC_021161.1	Ca_kabuli_chr02	11010066	GG	AA	1946752969
SNP_P4_20219_11010144	NC_021161.1	Ca_kabuli_chr02	11010144	CC	AA	1946752971
SNP_P4_20220_11010146	NC_021161.1	Ca_kabuli_chr02	11010146	GG	AA	1946752973
SNP_P4_20221_11010275	NC_021161.1	Ca_kabuli_chr02	11010275	TT	AA	1946752974
SNP_P4_20222_11031029	NC_021161.1	Ca_kabuli_chr02	11031029	AA	TT	1946752976
SNP_P4_20223_11031037	NC_021161.1	Ca_kabuli_chr02	11031037	AA	GG	1946752978
SNP_P4_20224_11031113	NC_021161.1	Ca_kabuli_chr02	11031113	TT	CC	1946752980
SNP_P4_20225_11031124	NC_021161.1	Ca_kabuli_chr02	11031124	TT	AA	1946752982
SNP_P4_20226_11031221	NC_021161.1	Ca_kabuli_chr02	11031221	AA	CC	1946752984
SNP_P4_20227_11055746	NC_021161.1	Ca_kabuli_chr02	11055746	CC	TT	1946752986
SNP_P4_20228_11055755	NC_021161.1	Ca_kabuli_chr02	11055755	TT	CC	1946752988
SNP_P4_20229_11055774	NC_021161.1	Ca_kabuli_chr02	11055774	CC	TT	1946752990
SNP_P4_20230_11055780	NC_021161.1	Ca_kabuli_chr02	11055780	TT	CC	1946752992
SNP_P4_20231_11055863	NC_021161.1	Ca_kabuli_chr02	11055863	GG	AA	1946752994
SNP_P4_20232_11055915	NC_021161.1	Ca_kabuli_chr02	11055915	AA	GG	1946752996
SNP_P4_20233_11056096	NC_021161.1	Ca_kabuli_chr02	11056096	AA	TT	1946752998
SNP_P4_20234_11056102	NC_021161.1	Ca_kabuli_chr02	11056102	AA	GG	1946753000
SNP_P4_20235_11056104	NC_021161.1	Ca_kabuli_chr02	11056104	AA	GG	1946753002

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_20236_11056205	NC_021161.1	Ca_kabuli_chr02	11056205	AA	GG	1946753004
SNP_P4_20237_11056210	NC_021161.1	Ca_kabuli_chr02	11056210	TT	AA	1946753006
SNP_P4_20238_11056279	NC_021161.1	Ca_kabuli_chr02	11056279	GG	TT	1946753008
SNP_P4_20239_11056288	NC_021161.1	Ca_kabuli_chr02	11056288	GG	AA	1946753010
SNP_P4_20240_11056299	NC_021161.1	Ca_kabuli_chr02	11056299	AA	GG	1946753012
SNP_P4_20241_11056309	NC_021161.1	Ca_kabuli_chr02	11056309	AA	GG	1946753014
SNP_P4_20242_11056315	NC_021161.1	Ca_kabuli_chr02	11056315	TT	CC	1946753016
SNP_P4_20243_11056326	NC_021161.1	Ca_kabuli_chr02	11056326	AA	GG	1946753018
SNP_P4_20244_11056356	NC_021161.1	Ca_kabuli_chr02	11056356	AA	TT	1946753020
SNP_P4_20245_11056375	NC_021161.1	Ca_kabuli_chr02	11056375	GG	AA	1946753022
SNP_P4_20246_11063613	NC_021161.1	Ca_kabuli_chr02	11063613	TT	CC	1946753024
SNP_P4_20247_11063643	NC_021161.1	Ca_kabuli_chr02	11063643	CC	AA	1946753026
SNP_P4_20248_11063647	NC_021161.1	Ca_kabuli_chr02	11063647	TT	AA	1946753029
SNP_P4_20249_11063652	NC_021161.1	Ca_kabuli_chr02	11063652	CC	GG	1946753031
SNP_P4_20250_11063719	NC_021161.1	Ca_kabuli_chr02	11063719	GG	TT	1946753033
SNP_P4_20251_11063749	NC_021161.1	Ca_kabuli_chr02	11063749	GG	TT	1946753035
SNP_P4_20252_11063764	NC_021161.1	Ca_kabuli_chr02	11063764	GG	AA	1946753037
SNP_P4_20253_11063774	NC_021161.1	Ca_kabuli_chr02	11063774	TT	CC	1946753039
SNP_P4_20254_11063914	NC_021161.1	Ca_kabuli_chr02	11063914	AA	GG	1946753041
SNP_P4_20255_11083452	NC_021161.1	Ca_kabuli_chr02	11083452	TT	CC	1946753043
SNP_P4_20257_11102656	NC_021161.1	Ca_kabuli_chr02	11102656	TT	CC	1946753045
SNP_P4_20258_11142167	NC_021161.1	Ca_kabuli_chr02	11142167	AA	GG	1946753047
SNP_P4_20259_11142525	NC_021161.1	Ca_kabuli_chr02	11142525	CC	TT	1946753049
SNP_P4_20260_11144016	NC_021161.1	Ca_kabuli_chr02	11144016	TT	CC	1946753051
SNP_P4_20261_11144035	NC_021161.1	Ca_kabuli_chr02	11144035	AA	GG	1946753053
SNP_P4_20262_11144068	NC_021161.1	Ca_kabuli_chr02	11144068	TT	CC	1946753055
SNP_P4_20263_11144093	NC_021161.1	Ca_kabuli_chr02	11144093	GG	AA	1946753057
SNP_P4_20264_11144095	NC_021161.1	Ca_kabuli_chr02	11144095	AA	GG	1946753059
SNP_P4_20265_11144114	NC_021161.1	Ca_kabuli_chr02	11144114	TT	CC	1946753061
SNP_P4_20266_11144152	NC_021161.1	Ca_kabuli_chr02	11144152	AA	GG	1946753066
SNP_P4_20267_11144153	NC_021161.1	Ca_kabuli_chr02	11144153	TT	CC	1946753068
SNP_P4_20268_11144181	NC_021161.1	Ca_kabuli_chr02	11144181	AA	GG	1946753070
SNP_P4_20269_11144339	NC_021161.1	Ca_kabuli_chr02	11144339	AA	GG	1946753072
SNP_P4_20270_11144354	NC_021161.1	Ca_kabuli_chr02	11144354	AA	GG	1946753074
SNP_P4_20271_11144366	NC_021161.1	Ca_kabuli_chr02	11144366	GG	TT	1946753076
SNP_P4_20272_11144393	NC_021161.1	Ca_kabuli_chr02	11144393	AA	CC	1946753078
SNP_P4_20273_11144435	NC_021161.1	Ca_kabuli_chr02	11144435	CC	TT	1946753080
SNP_P4_20274_11144447	NC_021161.1	Ca_kabuli_chr02	11144447	AA	GG	1946753082
SNP_P4_20275_11157470	NC_021161.1	Ca_kabuli_chr02	11157470	AA	CC	1946753084
SNP_P4_20276_11214825	NC_021161.1	Ca_kabuli_chr02	11214825	GG	AA	1946753086
SNP_P4_20277_11219180	NC_021161.1	Ca_kabuli_chr02	11219180	GG	TT	1946753088
SNP_P4_20278_11223010	NC_021161.1	Ca_kabuli_chr02	11223010	TT	AA	1946753090

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_20280_11240143	NC_021161.1	Ca_kabuli_chr02	11240143	GG	AA	1946753094
SNP_P4_20281_11248036	NC_021161.1	Ca_kabuli_chr02	11248036	AA	GG	1946753096
SNP_P4_20283_11297372	NC_021161.1	Ca_kabuli_chr02	11297372	GG	AA	1946753098
SNP_P4_20284_11312227	NC_021161.1	Ca_kabuli_chr02	11312227	AA	CC	1946753100
SNP_P4_20285_11312264	NC_021161.1	Ca_kabuli_chr02	11312264	AA	CC	1946753102
SNP_P4_20286_11312285	NC_021161.1	Ca_kabuli_chr02	11312285	AA	CC	1946753104
SNP_P4_20287_11312434	NC_021161.1	Ca_kabuli_chr02	11312434	AA	TT	1946753106
SNP_P4_20289_11327567	NC_021161.1	Ca_kabuli_chr02	11327567	CC	AA	1946753108
SNP_P4_20290_11329965	NC_021161.1	Ca_kabuli_chr02	11329965	CC	AA	1946753111
SNP_P4_20292_11359736	NC_021161.1	Ca_kabuli_chr02	11359736	TT	AA	1946753113
SNP_P4_20293_11482428	NC_021161.1	Ca_kabuli_chr02	11482428	TT	CC	1946753115
SNP_P4_20296_11506910	NC_021161.1	Ca_kabuli_chr02	11506910	CC	AA	1946753117
SNP_P4_20297_11507000	NC_021161.1	Ca_kabuli_chr02	11507000	CC	TT	1946753119
SNP_P4_20298_11507506	NC_021161.1	Ca_kabuli_chr02	11507506	AA	GG	1946753121
SNP_P4_20299_11507848	NC_021161.1	Ca_kabuli_chr02	11507848	TT	CC	1946753123
SNP_P4_20300_11507885	NC_021161.1	Ca_kabuli_chr02	11507885	AA	GG	1946753125
SNP_P4_20301_11507915	NC_021161.1	Ca_kabuli_chr02	11507915	CC	TT	1946753127
SNP_P4_20302_11535694	NC_021161.1	Ca_kabuli_chr02	11535694	GG	TT	1946753129
SNP_P4_20303_11536047	NC_021161.1	Ca_kabuli_chr02	11536047	TT	CC	1946753131
SNP_P4_20304_11537665	NC_021161.1	Ca_kabuli_chr02	11537665	TT	GG	1946753133
SNP_P4_20305_11537686	NC_021161.1	Ca_kabuli_chr02	11537686	TT	CC	1946753135
SNP_P4_20306_11538061	NC_021161.1	Ca_kabuli_chr02	11538061	AA	GG	1946753137
SNP_P4_20307_11538253	NC_021161.1	Ca_kabuli_chr02	11538253	CC	TT	1946753139
SNP_P4_20308_11538259	NC_021161.1	Ca_kabuli_chr02	11538259	GG	TT	1946753141
SNP_P4_20309_11552449	NC_021161.1	Ca_kabuli_chr02	11552449	GG	AA	1946753144
SNP_P4_20310_11570563	NC_021161.1	Ca_kabuli_chr02	11570563	TT	GG	1946753146
SNP_P4_20311_11626013	NC_021161.1	Ca_kabuli_chr02	11626013	GG	CC	1946753148
SNP_P4_20312_11648754	NC_021161.1	Ca_kabuli_chr02	11648754	AA	GG	1946753150
SNP_P4_20313_11653666	NC_021161.1	Ca_kabuli_chr02	11653666	TT	AA	1946753152
SNP_P4_20314_11670611	NC_021161.1	Ca_kabuli_chr02	11670611	AA	CC	1946753154
SNP_P4_20315_11670804	NC_021161.1	Ca_kabuli_chr02	11670804	GG	AA	1946753156
SNP_P4_20316_11670811	NC_021161.1	Ca_kabuli_chr02	11670811	AA	TT	1946753158
SNP_P4_20317_11670823	NC_021161.1	Ca_kabuli_chr02	11670823	GG	AA	1946753160
SNP_P4_20318_11671192	NC_021161.1	Ca_kabuli_chr02	11671192	CC	TT	1946753162
SNP_P4_20320_11671632	NC_021161.1	Ca_kabuli_chr02	11671632	GG	AA	1946753164
SNP_P4_20321_11671713	NC_021161.1	Ca_kabuli_chr02	11671713	AA	TT	1946753166
SNP_P4_20322_11674896	NC_021161.1	Ca_kabuli_chr02	11674896	CC	TT	1946753168
SNP_P4_20323_11680878	NC_021161.1	Ca_kabuli_chr02	11680878	TT	AA	1946753170
SNP_P4_20324_11686699	NC_021161.1	Ca_kabuli_chr02	11686699	GG	AA	1946753172
SNP_P4_20325_11690234	NC_021161.1	Ca_kabuli_chr02	11690234	CC	GG	1946753174
SNP_P4_20326_11697943	NC_021161.1	Ca_kabuli_chr02	11697943	TT	AA	1946753176

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_20329_11726429	NC_021161.1	Ca_kabuli_chr02	11726429	GG	AA	1946753178
SNP_P4_20330_11726452	NC_021161.1	Ca_kabuli_chr02	11726452	GG	CC	1946753179
SNP_P4_20331_11726460	NC_021161.1	Ca_kabuli_chr02	11726460	AA	TT	1946753180
SNP_P4_20332_11728460	NC_021161.1	Ca_kabuli_chr02	11728460	TT	GG	1946753181
SNP_P4_20333_11751692	NC_021161.1	Ca_kabuli_chr02	11751692	GG	AA	1946753182
SNP_P4_20334_11786744	NC_021161.1	Ca_kabuli_chr02	11786744	TT	AA	1946753183
SNP_P4_20335_11822626	NC_021161.1	Ca_kabuli_chr02	11822626	GG	TT	1946753184
SNP_P4_20337_11850704	NC_021161.1	Ca_kabuli_chr02	11850704	GG	AA	1946753185
SNP_P4_20338_11878859	NC_021161.1	Ca_kabuli_chr02	11878859	CC	GG	1946753186
SNP_P4_20339_11878860	NC_021161.1	Ca_kabuli_chr02	11878860	AA	GG	1946753187
SNP_P4_20340_11912865	NC_021161.1	Ca_kabuli_chr02	11912865	TT	CC	1946753188
SNP_P4_20341_11934840	NC_021161.1	Ca_kabuli_chr02	11934840	AA	GG	1946753189
SNP_P4_20342_11950210	NC_021161.1	Ca_kabuli_chr02	11950210	CC	TT	1946753190
SNP_P4_20343_11950228	NC_021161.1	Ca_kabuli_chr02	11950228	TT	GG	1946753191
SNP_P4_20344_11950657	NC_021161.1	Ca_kabuli_chr02	11950657	CC	AA	1946753192
SNP_P4_20345_11954561	NC_021161.1	Ca_kabuli_chr02	11954561	AA	GG	1946753194
SNP_P4_20346_11985469	NC_021161.1	Ca_kabuli_chr02	11985469	GG	CC	1946753196
SNP_P4_20349_12019862	NC_021161.1	Ca_kabuli_chr02	12019862	GG	AA	1946753197
SNP_P4_20350_12030551	NC_021161.1	Ca_kabuli_chr02	12030551	AA	GG	1946753199
SNP_P4_20351_12035947	NC_021161.1	Ca_kabuli_chr02	12035947	CC	TT	1946753201
SNP_P4_20352_12040087	NC_021161.1	Ca_kabuli_chr02	12040087	CC	AA	1946753203
SNP_P4_20353_12040168	NC_021161.1	Ca_kabuli_chr02	12040168	TT	AA	1946753205
SNP_P4_20354_12040406	NC_021161.1	Ca_kabuli_chr02	12040406	AA	TT	1946753206
SNP_P4_20355_12040465	NC_021161.1	Ca_kabuli_chr02	12040465	AA	TT	1946753208
SNP_P4_20356_12040480	NC_021161.1	Ca_kabuli_chr02	12040480	AA	TT	1946753210
SNP_P4_20357_12040488	NC_021161.1	Ca_kabuli_chr02	12040488	AA	TT	1946753212
SNP_P4_20359_12040720	NC_021161.1	Ca_kabuli_chr02	12040720	AA	GG	1946753214
SNP_P4_20360_12040743	NC_021161.1	Ca_kabuli_chr02	12040743	TT	AA	1946753216
SNP_P4_20361_12041119	NC_021161.1	Ca_kabuli_chr02	12041119	TT	CC	1946753218
SNP_P4_20362_12041627	NC_021161.1	Ca_kabuli_chr02	12041627	TT	CC	1946753220
SNP_P4_20364_12041729	NC_021161.1	Ca_kabuli_chr02	12041729	GG	AA	1946753222
SNP_P4_20365_12041951	NC_021161.1	Ca_kabuli_chr02	12041951	TT	CC	1946753224
SNP_P4_20366_12041961	NC_021161.1	Ca_kabuli_chr02	12041961	GG	AA	1946753226
SNP_P4_20367_12041971	NC_021161.1	Ca_kabuli_chr02	12041971	TT	AA	1946753228
SNP_P4_20368_12042054	NC_021161.1	Ca_kabuli_chr02	12042054	TT	AA	1946753230
SNP_P4_20369_12042070	NC_021161.1	Ca_kabuli_chr02	12042070	TT	CC	1946753232
SNP_P4_20370_12042071	NC_021161.1	Ca_kabuli_chr02	12042071	CC	AA	1946753234
SNP_P4_20371_12042089	NC_021161.1	Ca_kabuli_chr02	12042089	CC	TT	1946753236
SNP_P4_20372_12042279	NC_021161.1	Ca_kabuli_chr02	12042279	CC	TT	1946753238
SNP_P4_20373_12042427	NC_021161.1	Ca_kabuli_chr02	12042427	AA	CC	1946753240
SNP_P4_20374_12048433	NC_021161.1	Ca_kabuli_chr02	12048433	TT	CC	1946753244
SNP_P4_20375_12048443	NC_021161.1	Ca_kabuli_chr02	12048443	GG	AA	1946753246

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_20376_12048453	NC_021161.1	Ca_kabuli_chr02	12048453	TT	AA	1946753248
SNP_P4_20377_12048467	NC_021161.1	Ca_kabuli_chr02	12048467	TT	CC	1946753250
SNP_P4_20378_12048552	NC_021161.1	Ca_kabuli_chr02	12048552	TT	CC	1946753252
SNP_P4_20379_12048553	NC_021161.1	Ca_kabuli_chr02	12048553	CC	AA	1946753254
SNP_P4_20380_12048571	NC_021161.1	Ca_kabuli_chr02	12048571	CC	TT	1946753256
SNP_P4_20382_12048735	NC_021161.1	Ca_kabuli_chr02	12048735	TT	AA	1946753258
SNP_P4_20383_12048736	NC_021161.1	Ca_kabuli_chr02	12048736	TT	AA	1946753259
SNP_P4_20384_12048759	NC_021161.1	Ca_kabuli_chr02	12048759	CC	TT	1946753262
SNP_P4_20385_12048769	NC_021161.1	Ca_kabuli_chr02	12048769	AA	TT	1946753264
SNP_P4_20386_12074805	NC_021161.1	Ca_kabuli_chr02	12074805	CC	GG	1946753265
SNP_P4_20388_12082899	NC_021161.1	Ca_kabuli_chr02	12082899	GG	CC	1946753267
SNP_P4_20389_12098957	NC_021161.1	Ca_kabuli_chr02	12098957	TT	CC	1946753268
SNP_P4_20390_12098995	NC_021161.1	Ca_kabuli_chr02	12098995	GG	AA	1946753269
SNP_P4_20391_12099007	NC_021161.1	Ca_kabuli_chr02	12099007	TT	CC	1946753271
SNP_P4_20392_12114602	NC_021161.1	Ca_kabuli_chr02	12114602	AA	GG	1946753273
SNP_P4_20393_12128684	NC_021161.1	Ca_kabuli_chr02	12128684	AA	TT	1946753275
SNP_P4_20394_12146522	NC_021161.1	Ca_kabuli_chr02	12146522	CC	AA	1946753277
SNP_P4_20396_12191312	NC_021161.1	Ca_kabuli_chr02	12191312	GG	AA	1946753278
SNP_P4_20397_12210704	NC_021161.1	Ca_kabuli_chr02	12210704	CC	TT	1946753280
SNP_P4_20399_12220296	NC_021161.1	Ca_kabuli_chr02	12220296	GG	AA	1946753282
SNP_P4_20400_12220302	NC_021161.1	Ca_kabuli_chr02	12220302	CC	TT	1946753284
SNP_P4_20401_12220529	NC_021161.1	Ca_kabuli_chr02	12220529	AA	GG	1946753286
SNP_P4_20402_12220537	NC_021161.1	Ca_kabuli_chr02	12220537	TT	GG	1946753288
SNP_P4_20403_12220549	NC_021161.1	Ca_kabuli_chr02	12220549	AA	GG	1946753289
SNP_P4_20404_12221000	NC_021161.1	Ca_kabuli_chr02	12221000	CC	TT	1946753291
SNP_P4_20405_12221028	NC_021161.1	Ca_kabuli_chr02	12221028	TT	CC	1946753292
SNP_P4_20406_12221306	NC_021161.1	Ca_kabuli_chr02	12221306	TT	CC	1946753293
SNP_P4_20407_12221312	NC_021161.1	Ca_kabuli_chr02	12221312	TT	CC	1946753295
SNP_P4_20408_12261576	NC_021161.1	Ca_kabuli_chr02	12261576	CC	TT	1946753297
SNP_P4_20409_12283044	NC_021161.1	Ca_kabuli_chr02	12283044	CC	AA	1946753299
SNP_P4_20410_12283045	NC_021161.1	Ca_kabuli_chr02	12283045	AA	TT	1946753300
SNP_P4_20411_12303588	NC_021161.1	Ca_kabuli_chr02	12303588	CC	TT	1946753303
SNP_P4_20413_12307984	NC_021161.1	Ca_kabuli_chr02	12307984	AA	TT	1946753305
SNP_P4_20414_12321261	NC_021161.1	Ca_kabuli_chr02	12321261	CC	TT	1946753307
SNP_P4_20415_12321873	NC_021161.1	Ca_kabuli_chr02	12321873	TT	CC	1946753309
SNP_P4_20416_12324015	NC_021161.1	Ca_kabuli_chr02	12324015	TT	CC	1946753311
SNP_P4_20417_12326757	NC_021161.1	Ca_kabuli_chr02	12326757	CC	TT	1946753313
SNP_P4_20418_12326851	NC_021161.1	Ca_kabuli_chr02	12326851	TT	CC	1946753314
SNP_P4_20419_12326927	NC_021161.1	Ca_kabuli_chr02	12326927	AA	GG	1946753316
SNP_P4_20420_12333114	NC_021161.1	Ca_kabuli_chr02	12333114	AA	GG	1946753318
SNP_P4_20421_12333121	NC_021161.1	Ca_kabuli_chr02	12333121	AA	GG	1946753320
SNP_P4_20422_12333162	NC_021161.1	Ca_kabuli_chr02	12333162	AA	TT	1946753322

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_20424_12333211	NC_021161.1	Ca_kabuli_chr02	12333211	TT	CC	1946753331
SNP_P4_20425_12333396	NC_021161.1	Ca_kabuli_chr02	12333396	AA	TT	1946753333
SNP_P4_20426_12333427	NC_021161.1	Ca_kabuli_chr02	12333427	TT	AA	1946753335
SNP_P4_20427_12344244	NC_021161.1	Ca_kabuli_chr02	12344244	AA	GG	1946753337
SNP_P4_20428_12345042	NC_021161.1	Ca_kabuli_chr02	12345042	CC	AA	1946753339
SNP_P4_20429_12345050	NC_021161.1	Ca_kabuli_chr02	12345050	TT	GG	1946753341
SNP_P4_20430_12345222	NC_021161.1	Ca_kabuli_chr02	12345222	TT	CC	1946753343
SNP_P4_20431_12345226	NC_021161.1	Ca_kabuli_chr02	12345226	TT	CC	1946753345
SNP_P4_20432_12367871	NC_021161.1	Ca_kabuli_chr02	12367871	AA	TT	1946753347
SNP_P4_20433_12380198	NC_021161.1	Ca_kabuli_chr02	12380198	TT	CC	1946753349
SNP_P4_20435_12380263	NC_021161.1	Ca_kabuli_chr02	12380263	AA	GG	1946753351
SNP_P4_20436_12380293	NC_021161.1	Ca_kabuli_chr02	12380293	GG	AA	1946753355
SNP_P4_20438_12380303	NC_021161.1	Ca_kabuli_chr02	12380303	CC	TT	1946753357
SNP_P4_20439_12380323	NC_021161.1	Ca_kabuli_chr02	12380323	TT	CC	1946753359
SNP_P4_20440_12380339	NC_021161.1	Ca_kabuli_chr02	12380339	AA	GG	1946753361
SNP_P4_20441_12380340	NC_021161.1	Ca_kabuli_chr02	12380340	CC	TT	1946753363
SNP_P4_20442_12380341	NC_021161.1	Ca_kabuli_chr02	12380341	AA	CC	1946753365
SNP_P4_20443_12384534	NC_021161.1	Ca_kabuli_chr02	12384534	AA	TT	1946753367
SNP_P4_20444_12384683	NC_021161.1	Ca_kabuli_chr02	12384683	GG	AA	1946753368
SNP_P4_20446_12399414	NC_021161.1	Ca_kabuli_chr02	12399414	AA	GG	1946753370
SNP_P4_20447_12431009	NC_021161.1	Ca_kabuli_chr02	12431009	GG	AA	1946753372
SNP_P4_20448_12435113	NC_021161.1	Ca_kabuli_chr02	12435113	GG	TT	1946753374
SNP_P4_20449_12435115	NC_021161.1	Ca_kabuli_chr02	12435115	GG	AA	1946753375
SNP_P4_20450_12435140	NC_021161.1	Ca_kabuli_chr02	12435140	CC	AA	1946753377
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SNP_P4_20452_12435245	NC_021161.1	Ca_kabuli_chr02	12435245	GG	AA	1946753381
SNP_P4_20453_12435256	NC_021161.1	Ca_kabuli_chr02	12435256	CC	TT	1946753383
SNP_P4_20454_12435265	NC_021161.1	Ca_kabuli_chr02	12435265	AA	GG	1946753385
SNP_P4_20455_12435317	NC_021161.1	Ca_kabuli_chr02	12435317	GG	AA	1946753387
SNP_P4_20456_12469533	NC_021161.1	Ca_kabuli_chr02	12469533	CC	GG	1946753389
SNP_P4_20457_12472168	NC_021161.1	Ca_kabuli_chr02	12472168	GG	TT	1946753391
SNP_P4_20458_12472187	NC_021161.1	Ca_kabuli_chr02	12472187	CC	GG	1946753393
SNP_P4_20459_12475594	NC_021161.1	Ca_kabuli_chr02	12475594	CC	TT	1946753395
SNP_P4_20460_12475600	NC_021161.1	Ca_kabuli_chr02	12475600	CC	TT	1946753397
SNP_P4_20462_12475684	NC_021161.1	Ca_kabuli_chr02	12475684	CC	TT	1946753399
SNP_P4_20464_12493950	NC_021161.1	Ca_kabuli_chr02	12493950	GG	AA	1946753400
SNP_P4_20466_12496953	NC_021161.1	Ca_kabuli_chr02	12496953	TT	CC	1946753402
SNP_P4_20467_12526758	NC_021161.1	Ca_kabuli_chr02	12526758	CC	TT	1946753404
SNP_P4_20470_12581699	NC_021161.1	Ca_kabuli_chr02	12581699	AA	GG	1946753406
SNP_P4_20471_12581718	NC_021161.1	Ca_kabuli_chr02	12581718	CC	AA	1946753408
SNP_P4_20472_12581742	NC_021161.1	Ca_kabuli_chr02	12581742	AA	GG	1946753409

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_20474_12584836	NC_021161.1	Ca_kabuli_chr02	12584836	CC	TT	1946753414
SNP_P4_20475_12585003	NC_021161.1	Ca_kabuli_chr02	12585003	TT	AA	1946753416
SNP_P4_20476_12585009	NC_021161.1	Ca_kabuli_chr02	12585009	GG	AA	1946753419
SNP_P4_20477_12585027	NC_021161.1	Ca_kabuli_chr02	12585027	CC	TT	1946753421
SNP_P4_20478_12585043	NC_021161.1	Ca_kabuli_chr02	12585043	TT	CC	1946753423
SNP_P4_20479_12588386	NC_021161.1	Ca_kabuli_chr02	12588386	TT	AA	1946753425
SNP_P4_20480_12602433	NC_021161.1	Ca_kabuli_chr02	12602433	TT	CC	1946753427
SNP_P4_20482_12639796	NC_021161.1	Ca_kabuli_chr02	12639796	TT	CC	1946753429
SNP_P4_20484_12676260	NC_021161.1	Ca_kabuli_chr02	12676260	TT	CC	1946753430
SNP_P4_20485_12676262	NC_021161.1	Ca_kabuli_chr02	12676262	GG	CC	1946753432
SNP_P4_20486_12676306	NC_021161.1	Ca_kabuli_chr02	12676306	TT	CC	1946753434
SNP_P4_20487_12680957	NC_021161.1	Ca_kabuli_chr02	12680957	TT	GG	1946753436
SNP_P4_20488_12684040	NC_021161.1	Ca_kabuli_chr02	12684040	AA	GG	1946753438
SNP_P4_20489_12684045	NC_021161.1	Ca_kabuli_chr02	12684045	TT	CC	1946753440
SNP_P4_20490_12689932	NC_021161.1	Ca_kabuli_chr02	12689932	GG	AA	1946753442
SNP_P4_20491_12690206	NC_021161.1	Ca_kabuli_chr02	12690206	CC	TT	1946753444
SNP_P4_20492_12690447	NC_021161.1	Ca_kabuli_chr02	12690447	AA	TT	1946753446
SNP_P4_20493_12772093	NC_021161.1	Ca_kabuli_chr02	12772093	CC	TT	1946753448
SNP_P4_20494_12785232	NC_021161.1	Ca_kabuli_chr02	12785232	GG	AA	1946753450
SNP_P4_20495_12785347	NC_021161.1	Ca_kabuli_chr02	12785347	TT	CC	1946753452
SNP_P4_20496_12785408	NC_021161.1	Ca_kabuli_chr02	12785408	AA	TT	1946753454
SNP_P4_20497_12785412	NC_021161.1	Ca_kabuli_chr02	12785412	GG	AA	1946753456
SNP_P4_20498_12837327	NC_021161.1	Ca_kabuli_chr02	12837327	AA	GG	1946753458
SNP_P4_20499_12837488	NC_021161.1	Ca_kabuli_chr02	12837488	CC	TT	1946753460
SNP_P4_20500_12843150	NC_021161.1	Ca_kabuli_chr02	12843150	GG	AA	1946753462
SNP_P4_20501_12843665	NC_021161.1	Ca_kabuli_chr02	12843665	GG	AA	1946753464
SNP_P4_20502_12855858	NC_021161.1	Ca_kabuli_chr02	12855858	GG	AA	1946753466
SNP_P4_20503_12931829	NC_021161.1	Ca_kabuli_chr02	12931829	AA	CC	1946753468
SNP_P4_20504_12931949	NC_021161.1	Ca_kabuli_chr02	12931949	AA	TT	1946753470
SNP_P4_20505_12932069	NC_021161.1	Ca_kabuli_chr02	12932069	AA	GG	1946753472
SNP_P4_20506_12932254	NC_021161.1	Ca_kabuli_chr02	12932254	TT	AA	1946753474
SNP_P4_20507_12932313	NC_021161.1	Ca_kabuli_chr02	12932313	TT	CC	1946753476
SNP_P4_20508_12932440	NC_021161.1	Ca_kabuli_chr02	12932440	GG	TT	1946753478
SNP_P4_20509_12932512	NC_021161.1	Ca_kabuli_chr02	12932512	GG	AA	1946753480
SNP_P4_20510_12932557	NC_021161.1	Ca_kabuli_chr02	12932557	TT	AA	1946753482
SNP_P4_20511_12932646	NC_021161.1	Ca_kabuli_chr02	12932646	AA	CC	1946753484
SNP_P4_20512_12932706	NC_021161.1	Ca_kabuli_chr02	12932706	AA	GG	1946753486
SNP_P4_20513_12932725	NC_021161.1	Ca_kabuli_chr02	12932725	CC	TT	1946753487
SNP_P4_20514_12932783	NC_021161.1	Ca_kabuli_chr02	12932783	AA	GG	1946753489
SNP_P4_20515_12932795	NC_021161.1	Ca_kabuli_chr02	12932795	AA	GG	1946753491
SNP_P4_20516_12932856	NC_021161.1	Ca_kabuli_chr02	12932856	AA	GG	1946753493

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_20518_12933069	NC_021161.1	Ca_kabuli_chr02	12933069	GG	AA	1946753497
SNP_P4_20519_12933101	NC_021161.1	Ca_kabuli_chr02	12933101	CC	TT	1946753499
SNP_P4_20521_12933135	NC_021161.1	Ca_kabuli_chr02	12933135	GG	AA	1946753501
SNP_P4_20522_12933149	NC_021161.1	Ca_kabuli_chr02	12933149	AA	GG	1946753503
SNP_P4_20523_12933198	NC_021161.1	Ca_kabuli_chr02	12933198	TT	CC	1946753504
SNP_P4_20524_12933215	NC_021161.1	Ca_kabuli_chr02	12933215	AA	TT	1946753506
SNP_P4_20525_12933258	NC_021161.1	Ca_kabuli_chr02	12933258	GG	CC	1946753508
SNP_P4_20526_12933374	NC_021161.1	Ca_kabuli_chr02	12933374	CC	GG	1946753510
SNP_P4_20527_12933548	NC_021161.1	Ca_kabuli_chr02	12933548	AA	CC	1946753512
SNP_P4_20528_12933568	NC_021161.1	Ca_kabuli_chr02	12933568	CC	TT	1946753514
SNP_P4_20530_12933627	NC_021161.1	Ca_kabuli_chr02	12933627	AA	GG	1946753516
SNP_P4_20531_12933643	NC_021161.1	Ca_kabuli_chr02	12933643	TT	CC	1946753518
SNP_P4_20532_12933654	NC_021161.1	Ca_kabuli_chr02	12933654	CC	TT	1946753521
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SNP_P4_20534_12933751	NC_021161.1	Ca_kabuli_chr02	12933751	AA	TT	1946753525
SNP_P4_20535_12933779	NC_021161.1	Ca_kabuli_chr02	12933779	CC	TT	1946753527
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SNP_P4_20539_12934365	NC_021161.1	Ca_kabuli_chr02	12934365	AA	GG	1946753533
SNP_P4_20540_12934382	NC_021161.1	Ca_kabuli_chr02	12934382	AA	CC	1946753535
SNP_P4_20541_12934444	NC_021161.1	Ca_kabuli_chr02	12934444	TT	CC	1946753537
SNP_P4_20542_12934497	NC_021161.1	Ca_kabuli_chr02	12934497	GG	AA	1946753539
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SNP_P4_20544_12934572	NC_021161.1	Ca_kabuli_chr02	12934572	TT	GG	1946753543
SNP_P4_20545_12934749	NC_021161.1	Ca_kabuli_chr02	12934749	TT	AA	1946753545
SNP_P4_20546_12934776	NC_021161.1	Ca_kabuli_chr02	12934776	AA	CC	1946753547
SNP_P4_20547_12934794	NC_021161.1	Ca_kabuli_chr02	12934794	AA	GG	1946753549
SNP_P4_20549_12935071	NC_021161.1	Ca_kabuli_chr02	12935071	AA	TT	1946753551
SNP_P4_20550_12935178	NC_021161.1	Ca_kabuli_chr02	12935178	GG	AA	1946753553
SNP_P4_20551_12935217	NC_021161.1	Ca_kabuli_chr02	12935217	AA	GG	1946753555
SNP_P4_20552_12935442	NC_021161.1	Ca_kabuli_chr02	12935442	TT	GG	1946753557
SNP_P4_20553_12935449	NC_021161.1	Ca_kabuli_chr02	12935449	CC	TT	1946753559
SNP_P4_20554_12935521	NC_021161.1	Ca_kabuli_chr02	12935521	AA	GG	1946753563
SNP_P4_20555_12935582	NC_021161.1	Ca_kabuli_chr02	12935582	CC	TT	1946753564
SNP_P4_20556_12935639	NC_021161.1	Ca_kabuli_chr02	12935639	AA	GG	1946753566
SNP_P4_20557_12935645	NC_021161.1	Ca_kabuli_chr02	12935645	AA	GG	1946753568
SNP_P4_20558_12935805	NC_021161.1	Ca_kabuli_chr02	12935805	GG	AA	1946753570
SNP_P4_20559_12935824	NC_021161.1	Ca_kabuli_chr02	12935824	TT	CC	1946753572
SNP_P4_20560_12935932	NC_021161.1	Ca_kabuli_chr02	12935932	TT	GG	1946753574
SNP_P4_20561_12935948	NC_021161.1	Ca_kabuli_chr02	12935948	TT	CC	1946753576
SNP_P4_20562_12936060	NC_021161.1	Ca_kabuli_chr02	12936060	CC	TT	1946753578

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_20564_12936177	NC_021161.1	Ca_kabuli_chr02	12936177	AA	GG	1946753583
SNP_P4_20565_12936246	NC_021161.1	Ca_kabuli_chr02	12936246	AA	GG	1946753585
SNP_P4_20566_12936329	NC_021161.1	Ca_kabuli_chr02	12936329	GG	TT	1946753587
SNP_P4_20567_12936360	NC_021161.1	Ca_kabuli_chr02	12936360	GG	CC	1946753589
SNP_P4_20568_12936559	NC_021161.1	Ca_kabuli_chr02	12936559	TT	AA	1946753590
SNP_P4_20569_12936657	NC_021161.1	Ca_kabuli_chr02	12936657	CC	TT	1946753592
SNP_P4_20570_12936658	NC_021161.1	Ca_kabuli_chr02	12936658	AA	GG	1946753594
SNP_P4_20571_12936662	NC_021161.1	Ca_kabuli_chr02	12936662	GG	AA	1946753596
SNP_P4_20572_12936741	NC_021161.1	Ca_kabuli_chr02	12936741	AA	GG	1946753598
SNP_P4_20573_12937028	NC_021161.1	Ca_kabuli_chr02	12937028	AA	GG	1946753600
SNP_P4_20574_12937051	NC_021161.1	Ca_kabuli_chr02	12937051	CC	TT	1946753602
SNP_P4_20575_12937059	NC_021161.1	Ca_kabuli_chr02	12937059	CC	AA	1946753605
SNP_P4_20576_12937070	NC_021161.1	Ca_kabuli_chr02	12937070	TT	AA	1946753607
SNP_P4_20577_12937071	NC_021161.1	Ca_kabuli_chr02	12937071	GG	AA	1946753609
SNP_P4_20578_12937177	NC_021161.1	Ca_kabuli_chr02	12937177	CC	TT	1946753611
SNP_P4_20579_12937180	NC_021161.1	Ca_kabuli_chr02	12937180	AA	TT	1946753613
SNP_P4_20580_12937185	NC_021161.1	Ca_kabuli_chr02	12937185	CC	TT	1946753615
SNP_P4_20581_12937265	NC_021161.1	Ca_kabuli_chr02	12937265	TT	AA	1946753617
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SNP_P4_20585_12937426	NC_021161.1	Ca_kabuli_chr02	12937426	CC	AA	1946753625
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SNP_P4_20593_12937683	NC_021161.1	Ca_kabuli_chr02	12937683	CC	TT	1946753639
SNP_P4_20594_12937684	NC_021161.1	Ca_kabuli_chr02	12937684	TT	CC	1946753641
SNP_P4_20595_12937693	NC_021161.1	Ca_kabuli_chr02	12937693	CC	TT	1946753643
SNP_P4_20596_12937825	NC_021161.1	Ca_kabuli_chr02	12937825	AA	TT	1946753644
SNP_P4_20597_12937896	NC_021161.1	Ca_kabuli_chr02	12937896	AA	GG	1946753646
SNP_P4_20598_12937966	NC_021161.1	Ca_kabuli_chr02	12937966	TT	AA	1946753648
SNP_P4_20599_12939274	NC_021161.1	Ca_kabuli_chr02	12939274	GG	CC	1946753650
SNP_P4_20600_12939296	NC_021161.1	Ca_kabuli_chr02	12939296	CC	GG	1946753652
SNP_P4_20601_12939560	NC_021161.1	Ca_kabuli_chr02	12939560	TT	CC	1946753654
SNP_P4_20603_12939751	NC_021161.1	Ca_kabuli_chr02	12939751	AA	TT	1946753656
SNP_P4_20604_12940026	NC_021161.1	Ca_kabuli_chr02	12940026	GG	AA	1946753658
SNP_P4_20605_12940347	NC_021161.1	Ca_kabuli_chr02	12940347	GG	TT	1946753660
SNP_P4_20606_12940554	NC_021161.1	Ca_kabuli_chr02	12940554	GG	CC	1946753662

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_20608_12940634	NC_021161.1	Ca_kabuli_chr02	12940634	TT	AA	1946753666
SNP_P4_20609_12940667	NC_021161.1	Ca_kabuli_chr02	12940667	TT	CC	1946753668
SNP_P4_20610_12940809	NC_021161.1	Ca_kabuli_chr02	12940809	AA	GG	1946753670
SNP_P4_20611_12940985	NC_021161.1	Ca_kabuli_chr02	12940985	TT	CC	1946753673
SNP_P4_20612_12941032	NC_021161.1	Ca_kabuli_chr02	12941032	GG	AA	1946753675
SNP_P4_20613_12941052	NC_021161.1	Ca_kabuli_chr02	12941052	AA	GG	1946753677
SNP_P4_20614_12941162	NC_021161.1	Ca_kabuli_chr02	12941162	AA	GG	1946753679
SNP_P4_20616_12941376	NC_021161.1	Ca_kabuli_chr02	12941376	AA	CC	1946753681
SNP_P4_20617_12941452	NC_021161.1	Ca_kabuli_chr02	12941452	AA	TT	1946753683
SNP_P4_20618_12941511	NC_021161.1	Ca_kabuli_chr02	12941511	GG	AA	1946753685
SNP_P4_20619_12941535	NC_021161.1	Ca_kabuli_chr02	12941535	AA	GG	1946753687
SNP_P4_20620_12941537	NC_021161.1	Ca_kabuli_chr02	12941537	GG	CC	1946753689
SNP_P4_20621_12941742	NC_021161.1	Ca_kabuli_chr02	12941742	CC	AA	1946753691
SNP_P4_20623_12941838	NC_021161.1	Ca_kabuli_chr02	12941838	CC	TT	1946753693
SNP_P4_20624_12941843	NC_021161.1	Ca_kabuli_chr02	12941843	TT	CC	1946753696
SNP_P4_20625_12941877	NC_021161.1	Ca_kabuli_chr02	12941877	AA	CC	1946753698
SNP_P4_20626_12941902	NC_021161.1	Ca_kabuli_chr02	12941902	GG	AA	1946753700
SNP_P4_20627_12942029	NC_021161.1	Ca_kabuli_chr02	12942029	CC	TT	1946753702
SNP_P4_20628_12942158	NC_021161.1	Ca_kabuli_chr02	12942158	AA	GG	1946753704
SNP_P4_20629_12942218	NC_021161.1	Ca_kabuli_chr02	12942218	TT	GG	1946753706
SNP_P4_20630_12942223	NC_021161.1	Ca_kabuli_chr02	12942223	GG	AA	1946753708
SNP_P4_20631_12942260	NC_021161.1	Ca_kabuli_chr02	12942260	AA	CC	1946753710
SNP_P4_20633_12946904	NC_021161.1	Ca_kabuli_chr02	12946904	AA	TT	1946753712
SNP_P4_20634_12947074	NC_021161.1	Ca_kabuli_chr02	12947074	GG	TT	1946753713
SNP_P4_20636_12948047	NC_021161.1	Ca_kabuli_chr02	12948047	CC	TT	1946753715
SNP_P4_20637_12948167	NC_021161.1	Ca_kabuli_chr02	12948167	AA	GG	1946753717
SNP_P4_20638_12948606	NC_021161.1	Ca_kabuli_chr02	12948606	CC	TT	1946753719
SNP_P4_20639_12948609	NC_021161.1	Ca_kabuli_chr02	12948609	CC	TT	1946753721
SNP_P4_20640_12949123	NC_021161.1	Ca_kabuli_chr02	12949123	AA	TT	1946753722
SNP_P4_20641_12949132	NC_021161.1	Ca_kabuli_chr02	12949132	GG	AA	1946753723
SNP_P4_20642_12949188	NC_021161.1	Ca_kabuli_chr02	12949188	GG	AA	1946753725
SNP_P4_20643_12949192	NC_021161.1	Ca_kabuli_chr02	12949192	GG	TT	1946753727
SNP_P4_20644_12949628	NC_021161.1	Ca_kabuli_chr02	12949628	CC	TT	1946753729
SNP_P4_20645_12949637	NC_021161.1	Ca_kabuli_chr02	12949637	CC	TT	1946753731
SNP_P4_20646_12949881	NC_021161.1	Ca_kabuli_chr02	12949881	GG	AA	1946753733
SNP_P4_20647_12950095	NC_021161.1	Ca_kabuli_chr02	12950095	CC	TT	1946753735
SNP_P4_20648_12950303	NC_021161.1	Ca_kabuli_chr02	12950303	AA	CC	1946753737
SNP_P4_20649_12950357	NC_021161.1	Ca_kabuli_chr02	12950357	TT	AA	1946753739
SNP_P4_20650_12950375	NC_021161.1	Ca_kabuli_chr02	12950375	AA	CC	1946753741
SNP_P4_20651_12951621	NC_021161.1	Ca_kabuli_chr02	12951621	CC	AA	1946753743
SNP_P4_20652_12951632	NC_021161.1	Ca_kabuli_chr02	12951632	AA	GG	1946753745

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_20654_12951684	NC_021161.1	Ca_kabuli_chr02	12951684	GG	AA	1946753749
SNP_P4_20655_12951701	NC_021161.1	Ca_kabuli_chr02	12951701	GG	AA	1946753751
SNP_P4_20656_12951955	NC_021161.1	Ca_kabuli_chr02	12951955	GG	AA	1946753753
SNP_P4_20657_12952122	NC_021161.1	Ca_kabuli_chr02	12952122	TT	AA	1946753755
SNP_P4_20658_12952300	NC_021161.1	Ca_kabuli_chr02	12952300	TT	GG	1946753757
SNP_P4_20659_12952375	NC_021161.1	Ca_kabuli_chr02	12952375	TT	CC	1946753759
SNP_P4_20660_12952438	NC_021161.1	Ca_kabuli_chr02	12952438	GG	AA	1946753761
SNP_P4_20662_12952924	NC_021161.1	Ca_kabuli_chr02	12952924	GG	AA	1946753763
SNP_P4_20664_12953534	NC_021161.1	Ca_kabuli_chr02	12953534	AA	GG	1946753765
SNP_P4_20665_12953555	NC_021161.1	Ca_kabuli_chr02	12953555	TT	CC	1946753767
SNP_P4_20666_12953578	NC_021161.1	Ca_kabuli_chr02	12953578	AA	GG	1946753769
SNP_P4_20667_12954224	NC_021161.1	Ca_kabuli_chr02	12954224	GG	AA	1946753771
SNP_P4_20668_12959693	NC_021161.1	Ca_kabuli_chr02	12959693	AA	GG	1946753773
SNP_P4_20669_12959961	NC_021161.1	Ca_kabuli_chr02	12959961	AA	GG	1946753775
SNP_P4_20670_12959975	NC_021161.1	Ca_kabuli_chr02	12959975	CC	AA	1946753777
SNP_P4_20671_12960112	NC_021161.1	Ca_kabuli_chr02	12960112	TT	GG	1946753779
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SNP_P4_20673_12960179	NC_021161.1	Ca_kabuli_chr02	12960179	TT	AA	1946753783
SNP_P4_20674_12960197	NC_021161.1	Ca_kabuli_chr02	12960197	CC	TT	1946753785
SNP_P4_20675_12960263	NC_021161.1	Ca_kabuli_chr02	12960263	AA	CC	1946753787
SNP_P4_20677_12960309	NC_021161.1	Ca_kabuli_chr02	12960309	TT	AA	1946753789
SNP_P4_20678_12960530	NC_021161.1	Ca_kabuli_chr02	12960530	CC	GG	1946753791
SNP_P4_20679_12960568	NC_021161.1	Ca_kabuli_chr02	12960568	AA	GG	1946753793
SNP_P4_20680_12960864	NC_021161.1	Ca_kabuli_chr02	12960864	GG	AA	1946753794
SNP_P4_20682_12987750	NC_021161.1	Ca_kabuli_chr02	12987750	AA	GG	1946753796
SNP_P4_20683_12994069	NC_021161.1	Ca_kabuli_chr02	12994069	CC	AA	1946753798
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SNP_P4_20685_12994250	NC_021161.1	Ca_kabuli_chr02	12994250	AA	TT	1946753802
SNP_P4_20686_12994277	NC_021161.1	Ca_kabuli_chr02	12994277	AA	GG	1946753804
SNP_P4_20687_13009088	NC_021161.1	Ca_kabuli_chr02	13009088	TT	AA	1946753806
SNP_P4_20688_13020448	NC_021161.1	Ca_kabuli_chr02	13020448	TT	CC	1946753808
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SNP_P4_20690_13021307	NC_021161.1	Ca_kabuli_chr02	13021307	AA	GG	1946753812
SNP_P4_20691_13026234	NC_021161.1	Ca_kabuli_chr02	13026234	AA	CC	1946753814
SNP_P4_20692_13026247	NC_021161.1	Ca_kabuli_chr02	13026247	TT	AA	1946753816
SNP_P4_20693_13026451	NC_021161.1	Ca_kabuli_chr02	13026451	TT	CC	1946753817
SNP_P4_20694_13026481	NC_021161.1	Ca_kabuli_chr02	13026481	TT	AA	1946753819
SNP_P4_20695_13026512	NC_021161.1	Ca_kabuli_chr02	13026512	CC	TT	1946753821
SNP_P4_20696_13026514	NC_021161.1	Ca_kabuli_chr02	13026514	AA	GG	1946753823
SNP_P4_20697_13026530	NC_021161.1	Ca_kabuli_chr02	13026530	GG	AA	1946753824
SNP_P4_20698_13026537	NC_021161.1	Ca_kabuli_chr02	13026537	GG	AA	1946753826

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_20700_13026571	NC_021161.1	Ca_kabuli_chr02	13026571	AA	GG	1946753830
SNP_P4_20701_13026605	NC_021161.1	Ca_kabuli_chr02	13026605	TT	AA	1946753832
SNP_P4_20702_13027627	NC_021161.1	Ca_kabuli_chr02	13027627	TT	AA	1946753834
SNP_P4_20703_13027643	NC_021161.1	Ca_kabuli_chr02	13027643	GG	AA	1946753836
SNP_P4_20704_13028033	NC_021161.1	Ca_kabuli_chr02	13028033	AA	GG	1946753838
SNP_P4_20705_13120547	NC_021161.1	Ca_kabuli_chr02	13120547	GG	CC	1946753840
SNP_P4_20706_13142649	NC_021161.1	Ca_kabuli_chr02	13142649	TT	CC	1946753842
SNP_P4_20707_13142651	NC_021161.1	Ca_kabuli_chr02	13142651	TT	CC	1946753843
SNP_P4_20710_13234554	NC_021161.1	Ca_kabuli_chr02	13234554	AA	GG	1946753845
SNP_P4_20711_13234555	NC_021161.1	Ca_kabuli_chr02	13234555	TT	GG	1946753847
SNP_P4_20712_13268265	NC_021161.1	Ca_kabuli_chr02	13268265	CC	TT	1946753849
SNP_P4_20713_13270501	NC_021161.1	Ca_kabuli_chr02	13270501	GG	AA	1946753851
SNP_P4_20714_13270533	NC_021161.1	Ca_kabuli_chr02	13270533	GG	CC	1946753853
SNP_P4_20716_13297834	NC_021161.1	Ca_kabuli_chr02	13297834	TT	CC	1946753855
SNP_P4_20717_13298144	NC_021161.1	Ca_kabuli_chr02	13298144	GG	AA	1946753857
SNP_P4_20718_13319513	NC_021161.1	Ca_kabuli_chr02	13319513	AA	GG	1946753858
SNP_P4_20719_13338255	NC_021161.1	Ca_kabuli_chr02	13338255	AA	GG	1946753860
SNP_P4_20720_13347443	NC_021161.1	Ca_kabuli_chr02	13347443	GG	AA	1946753862
SNP_P4_20721_13359638	NC_021161.1	Ca_kabuli_chr02	13359638	CC	GG	1946753864
SNP_P4_20722_13365438	NC_021161.1	Ca_kabuli_chr02	13365438	AA	GG	1946753865
SNP_P4_20723_13365478	NC_021161.1	Ca_kabuli_chr02	13365478	TT	CC	1946753867
SNP_P4_20724_13365487	NC_021161.1	Ca_kabuli_chr02	13365487	TT	GG	1946753869
SNP_P4_20725_13365546	NC_021161.1	Ca_kabuli_chr02	13365546	CC	TT	1946753873
SNP_P4_20726_13365650	NC_021161.1	Ca_kabuli_chr02	13365650	AA	TT	1946753875
SNP_P4_20727_13365688	NC_021161.1	Ca_kabuli_chr02	13365688	TT	AA	1946753877
SNP_P4_20728_13365704	NC_021161.1	Ca_kabuli_chr02	13365704	AA	CC	1946753879
SNP_P4_20729_13365722	NC_021161.1	Ca_kabuli_chr02	13365722	AA	CC	1946753881
SNP_P4_20730_13365735	NC_021161.1	Ca_kabuli_chr02	13365735	GG	AA	1946753883
SNP_P4_20731_13365950	NC_021161.1	Ca_kabuli_chr02	13365950	AA	GG	1946753885
SNP_P4_20732_13368424	NC_021161.1	Ca_kabuli_chr02	13368424	TT	CC	1946753887
SNP_P4_20733_13368440	NC_021161.1	Ca_kabuli_chr02	13368440	GG	AA	1946753889
SNP_P4_20734_13369480	NC_021161.1	Ca_kabuli_chr02	13369480	GG	AA	1946753890
SNP_P4_20735_13373149	NC_021161.1	Ca_kabuli_chr02	13373149	TT	CC	1946753892
SNP_P4_20736_13400166	NC_021161.1	Ca_kabuli_chr02	13400166	TT	CC	1946753894
SNP_P4_20737_13400417	NC_021161.1	Ca_kabuli_chr02	13400417	AA	GG	1946753896
SNP_P4_20738_13400798	NC_021161.1	Ca_kabuli_chr02	13400798	TT	GG	1946753898
SNP_P4_20739_13444691	NC_021161.1	Ca_kabuli_chr02	13444691	AA	TT	1946753900
SNP_P4_20740_13444693	NC_021161.1	Ca_kabuli_chr02	13444693	AA	TT	1946753901
SNP_P4_20741_13519025	NC_021161.1	Ca_kabuli_chr02	13519025	AA	GG	1946753903
SNP_P4_20742_13584155	NC_021161.1	Ca_kabuli_chr02	13584155	GG	AA	1946753905
SNP_P4_20743_13584547	NC_021161.1	Ca_kabuli_chr02	13584547	TT	AA	1946753906

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_20747_13639873	NC_021161.1	Ca_kabuli_chr02	13639873	GG	AA	1946753912
SNP_P4_20748_13694933	NC_021161.1	Ca_kabuli_chr02	13694933	TT	GG	1946753914
SNP_P4_20749_13695383	NC_021161.1	Ca_kabuli_chr02	13695383	AA	GG	1946753916
SNP_P4_20750_13695415	NC_021161.1	Ca_kabuli_chr02	13695415	TT	GG	1946753918
SNP_P4_20751_13695430	NC_021161.1	Ca_kabuli_chr02	13695430	TT	GG	1946753920
SNP_P4_20752_13707418	NC_021161.1	Ca_kabuli_chr02	13707418	TT	CC	1946753922
SNP_P4_20753_13728323	NC_021161.1	Ca_kabuli_chr02	13728323	AA	TT	1946753924
SNP_P4_20756_13785916	NC_021161.1	Ca_kabuli_chr02	13785916	GG	AA	1946753926
SNP_P4_20758_13796883	NC_021161.1	Ca_kabuli_chr02	13796883	GG	TT	1946753928
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SNP_P4_20760_13807523	NC_021161.1	Ca_kabuli_chr02	13807523	GG	AA	1946753932
SNP_P4_20761_13807544	NC_021161.1	Ca_kabuli_chr02	13807544	GG	AA	1946753934
SNP_P4_20762_13807594	NC_021161.1	Ca_kabuli_chr02	13807594	GG	AA	1946753936
SNP_P4_20763_13807814	NC_021161.1	Ca_kabuli_chr02	13807814	GG	TT	1946753937
SNP_P4_20764_13808084	NC_021161.1	Ca_kabuli_chr02	13808084	CC	TT	1946753939
SNP_P4_20765_13808127	NC_021161.1	Ca_kabuli_chr02	13808127	CC	AA	1946753941
SNP_P4_20766_13808354	NC_021161.1	Ca_kabuli_chr02	13808354	TT	AA	1946753943
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SNP_P4_20770_13879938	NC_021161.1	Ca_kabuli_chr02	13879938	CC	TT	1946753949
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SNP_P4_20776_13909466	NC_021161.1	Ca_kabuli_chr02	13909466	TT	CC	1946753960
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SNP_P4_20778_13909481	NC_021161.1	Ca_kabuli_chr02	13909481	TT	AA	1946753963
SNP_P4_20780_13922631	NC_021161.1	Ca_kabuli_chr02	13922631	CC	AA	1946753964
SNP_P4_20781_13923419	NC_021161.1	Ca_kabuli_chr02	13923419	GG	CC	1946753966
SNP_P4_20783_13923648	NC_021161.1	Ca_kabuli_chr02	13923648	GG	CC	1946753967
SNP_P4_20784_13923891	NC_021161.1	Ca_kabuli_chr02	13923891	AA	CC	1946753969
SNP_P4_20785_13925091	NC_021161.1	Ca_kabuli_chr02	13925091	CC	GG	1946753971
SNP_P4_20786_13955242	NC_021161.1	Ca_kabuli_chr02	13955242	TT	AA	1946753973
SNP_P4_20787_13956332	NC_021161.1	Ca_kabuli_chr02	13956332	TT	CC	1946753975
SNP_P4_20788_13956364	NC_021161.1	Ca_kabuli_chr02	13956364	AA	CC	1946753977
SNP_P4_20792_13957910	NC_021161.1	Ca_kabuli_chr02	13957910	CC	AA	1946753979
SNP_P4_20793_13957935	NC_021161.1	Ca_kabuli_chr02	13957935	GG	TT	1946753981
SNP_P4_20794_13957982	NC_021161.1	Ca_kabuli_chr02	13957982	AA	CC	1946753983
SNP_P4_20795_13958182	NC_021161.1	Ca_kabuli_chr02	13958182	AA	TT	1946753985

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_20798_14025803	NC_021161.1	Ca_kabuli_chr02	14025803	TT	AA	1946753991
SNP_P4_20799_14025834	NC_021161.1	Ca_kabuli_chr02	14025834	TT	AA	1946753992
SNP_P4_20800_14025970	NC_021161.1	Ca_kabuli_chr02	14025970	TT	CC	1946753994
SNP_P4_20801_14028949	NC_021161.1	Ca_kabuli_chr02	14028949	AA	GG	1946753996
SNP_P4_20802_14028950	NC_021161.1	Ca_kabuli_chr02	14028950	AA	TT	1946753998
SNP_P4_20804_14041056	NC_021161.1	Ca_kabuli_chr02	14041056	GG	CC	1946754000
SNP_P4_20805_14041632	NC_021161.1	Ca_kabuli_chr02	14041632	CC	TT	1946754002
SNP_P4_20806_14044472	NC_021161.1	Ca_kabuli_chr02	14044472	CC	TT	1946754004
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SNP_P4_20808_14044779	NC_021161.1	Ca_kabuli_chr02	14044779	TT	CC	1946754008
SNP_P4_20809_14044837	NC_021161.1	Ca_kabuli_chr02	14044837	CC	TT	1946754010
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SNP_P4_20812_14070061	NC_021161.1	Ca_kabuli_chr02	14070061	TT	GG	1946754013
SNP_P4_20813_14085862	NC_021161.1	Ca_kabuli_chr02	14085862	CC	TT	1946754014
SNP_P4_20814_14086046	NC_021161.1	Ca_kabuli_chr02	14086046	GG	AA	1946754016
SNP_P4_20815_14086162	NC_021161.1	Ca_kabuli_chr02	14086162	TT	CC	1946754017
SNP_P4_20816_14086178	NC_021161.1	Ca_kabuli_chr02	14086178	TT	CC	1946754018
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SNP_P4_20818_14086209	NC_021161.1	Ca_kabuli_chr02	14086209	TT	CC	1946754021
SNP_P4_20819_14086258	NC_021161.1	Ca_kabuli_chr02	14086258	CC	TT	1946754023
SNP_P4_20820_14086380	NC_021161.1	Ca_kabuli_chr02	14086380	TT	CC	1946754025
SNP_P4_20821_14086408	NC_021161.1	Ca_kabuli_chr02	14086408	AA	GG	1946754027
SNP_P4_20822_14087520	NC_021161.1	Ca_kabuli_chr02	14087520	AA	GG	1946754029
SNP_P4_20823_14114260	NC_021161.1	Ca_kabuli_chr02	14114260	TT	AA	1946754031
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SNP_P4_20825_14118504	NC_021161.1	Ca_kabuli_chr02	14118504	AA	CC	1946754034
SNP_P4_20826_14150159	NC_021161.1	Ca_kabuli_chr02	14150159	CC	TT	1946754036
SNP_P4_20827_14150162	NC_021161.1	Ca_kabuli_chr02	14150162	AA	TT	1946754038
SNP_P4_20828_14190564	NC_021161.1	Ca_kabuli_chr02	14190564	AA	GG	1946754040
SNP_P4_20830_14195941	NC_021161.1	Ca_kabuli_chr02	14195941	TT	CC	1946754042
SNP_P4_20832_14195978	NC_021161.1	Ca_kabuli_chr02	14195978	CC	TT	1946754044
SNP_P4_20833_14196053	NC_021161.1	Ca_kabuli_chr02	14196053	TT	GG	1946754046
SNP_P4_20834_14196188	NC_021161.1	Ca_kabuli_chr02	14196188	TT	AA	1946754048
SNP_P4_20835_14208017	NC_021161.1	Ca_kabuli_chr02	14208017	CC	TT	1946754050
SNP_P4_20836_15092545	NC_021161.1	Ca_kabuli_chr02	15092545	CC	TT	1946754051
SNP_P4_20837_15111510	NC_021161.1	Ca_kabuli_chr02	15111510	AA	GG	1946754053
SNP_P4_20838_15127400	NC_021161.1	Ca_kabuli_chr02	15127400	GG	AA	1946754055
SNP_P4_20839_15154576	NC_021161.1	Ca_kabuli_chr02	15154576	TT	GG	1946754057
SNP_P4_20842_15168570	NC_021161.1	Ca_kabuli_chr02	15168570	AA	CC	1946754059
SNP_P4_20844_15168826	NC_021161.1	Ca_kabuli_chr02	15168826	CC	TT	1946754060

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_20847_15190683	NC_021161.1	Ca_kabuli_chr02	15190683	AA	CC	1946754064
SNP_P4_20848_15197090	NC_021161.1	Ca_kabuli_chr02	15197090	TT	CC	1946754066
SNP_P4_20849_15200367	NC_021161.1	Ca_kabuli_chr02	15200367	AA	CC	1946754068
SNP_P4_20850_15252815	NC_021161.1	Ca_kabuli_chr02	15252815	CC	AA	1946754070
SNP_P4_20851_15282266	NC_021161.1	Ca_kabuli_chr02	15282266	TT	CC	1946754071
SNP_P4_20855_15345690	NC_021161.1	Ca_kabuli_chr02	15345690	AA	TT	1946754073
SNP_P4_20856_15363231	NC_021161.1	Ca_kabuli_chr02	15363231	AA	GG	1946754074
SNP_P4_20857_15363290	NC_021161.1	Ca_kabuli_chr02	15363290	AA	CC	1946754076
SNP_P4_20859_15363526	NC_021161.1	Ca_kabuli_chr02	15363526	AA	GG	1946754077
SNP_P4_20860_15367831	NC_021161.1	Ca_kabuli_chr02	15367831	AA	GG	1946754079
SNP_P4_20861_15401206	NC_021161.1	Ca_kabuli_chr02	15401206	AA	CC	1946754080
SNP_P4_20862_15406925	NC_021161.1	Ca_kabuli_chr02	15406925	AA	GG	1946754082
SNP_P4_20863_15439409	NC_021161.1	Ca_kabuli_chr02	15439409	CC	AA	1946754083
SNP_P4_20864_15439410	NC_021161.1	Ca_kabuli_chr02	15439410	CC	TT	1946754085
SNP_P4_20865_15439416	NC_021161.1	Ca_kabuli_chr02	15439416	GG	TT	1946754087
SNP_P4_20866_15453885	NC_021161.1	Ca_kabuli_chr02	15453885	GG	TT	1946754089
SNP_P4_20867_15454007	NC_021161.1	Ca_kabuli_chr02	15454007	TT	CC	1946754091
SNP_P4_20868_15454027	NC_021161.1	Ca_kabuli_chr02	15454027	AA	GG	1946754093
SNP_P4_20869_15454074	NC_021161.1	Ca_kabuli_chr02	15454074	GG	CC	1946754095
SNP_P4_20870_15454160	NC_021161.1	Ca_kabuli_chr02	15454160	TT	GG	1946754096
SNP_P4_20871_15454328	NC_021161.1	Ca_kabuli_chr02	15454328	TT	AA	1946754098
SNP_P4_20872_15454350	NC_021161.1	Ca_kabuli_chr02	15454350	TT	CC	1946754100
SNP_P4_20873_15456758	NC_021161.1	Ca_kabuli_chr02	15456758	AA	CC	1946754102
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SNP_P4_20875_15521172	NC_021161.1	Ca_kabuli_chr02	15521172	GG	AA	1946754106
SNP_P4_20876_15521218	NC_021161.1	Ca_kabuli_chr02	15521218	CC	AA	1946754108
SNP_P4_20877_15535548	NC_021161.1	Ca_kabuli_chr02	15535548	TT	AA	1946754110
SNP_P4_20878_15535732	NC_021161.1	Ca_kabuli_chr02	15535732	CC	AA	1946754111
SNP_P4_20879_15550249	NC_021161.1	Ca_kabuli_chr02	15550249	GG	AA	1946754113
SNP_P4_20880_15569768	NC_021161.1	Ca_kabuli_chr02	15569768	AA	CC	1946754115
SNP_P4_20881_15583285	NC_021161.1	Ca_kabuli_chr02	15583285	CC	TT	1946754116
SNP_P4_20882_15588258	NC_021161.1	Ca_kabuli_chr02	15588258	GG	AA	1946754118
SNP_P4_20883_15588772	NC_021161.1	Ca_kabuli_chr02	15588772	AA	GG	1946754119
SNP_P4_20885_15589189	NC_021161.1	Ca_kabuli_chr02	15589189	CC	TT	1946754121
SNP_P4_20886_15589436	NC_021161.1	Ca_kabuli_chr02	15589436	GG	CC	1946754122
SNP_P4_20887_15595260	NC_021161.1	Ca_kabuli_chr02	15595260	AA	GG	1946754124
SNP_P4_20888_15596867	NC_021161.1	Ca_kabuli_chr02	15596867	TT	CC	1946754125
SNP_P4_20889_15597956	NC_021161.1	Ca_kabuli_chr02	15597956	GG	AA	1946754126
SNP_P4_20890_15598338	NC_021161.1	Ca_kabuli_chr02	15598338	TT	CC	1946754127
SNP_P4_20892_15598998	NC_021161.1	Ca_kabuli_chr02	15598998	GG	TT	1946754128
SNP_P4_20893_15615948	NC_021161.1	Ca_kabuli_chr02	15615948	GG	AA	1946754129

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_20895_15624091	NC_021161.1	Ca_kabuli_chr02	15624091	CC	TT	1946754133
SNP_P4_20896_15624114	NC_021161.1	Ca_kabuli_chr02	15624114	AA	CC	1946754134
SNP_P4_20899_15719939	NC_021161.1	Ca_kabuli_chr02	15719939	AA	GG	1946754136
SNP_P4_20900_15735514	NC_021161.1	Ca_kabuli_chr02	15735514	GG	AA	1946754137
SNP_P4_20901_15735568	NC_021161.1	Ca_kabuli_chr02	15735568	TT	CC	1946754139
SNP_P4_20902_15737281	NC_021161.1	Ca_kabuli_chr02	15737281	GG	AA	1946754141
SNP_P4_20903_15737283	NC_021161.1	Ca_kabuli_chr02	15737283	TT	CC	1946754143
SNP_P4_20904_15737706	NC_021161.1	Ca_kabuli_chr02	15737706	CC	TT	1946754144
SNP_P4_20905_15737710	NC_021161.1	Ca_kabuli_chr02	15737710	GG	AA	1946754147
SNP_P4_20906_15737719	NC_021161.1	Ca_kabuli_chr02	15737719	TT	CC	1946754149
SNP_P4_20907_15737734	NC_021161.1	Ca_kabuli_chr02	15737734	TT	CC	1946754151
SNP_P4_20908_15737738	NC_021161.1	Ca_kabuli_chr02	15737738	GG	CC	1946754153
SNP_P4_20909_15737746	NC_021161.1	Ca_kabuli_chr02	15737746	AA	TT	1946754155
SNP_P4_20910_15737781	NC_021161.1	Ca_kabuli_chr02	15737781	TT	CC	1946754156
SNP_P4_20911_15737782	NC_021161.1	Ca_kabuli_chr02	15737782	TT	CC	1946754158
SNP_P4_20913_15784075	NC_021161.1	Ca_kabuli_chr02	15784075	GG	AA	1946754160
SNP_P4_20914_15796935	NC_021161.1	Ca_kabuli_chr02	15796935	GG	CC	1946754162
SNP_P4_20915_15797665	NC_021161.1	Ca_kabuli_chr02	15797665	AA	TT	1946754164
SNP_P4_20916_15797671	NC_021161.1	Ca_kabuli_chr02	15797671	CC	TT	1946754166
SNP_P4_20917_15804889	NC_021161.1	Ca_kabuli_chr02	15804889	AA	GG	1946754168
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SNP_P4_20920_15842053	NC_021161.1	Ca_kabuli_chr02	15842053	TT	GG	1946754172
SNP_P4_20921_15889749	NC_021161.1	Ca_kabuli_chr02	15889749	CC	GG	1946754174
SNP_P4_20922_15902864	NC_021161.1	Ca_kabuli_chr02	15902864	GG	CC	1946754176
SNP_P4_20923_15903634	NC_021161.1	Ca_kabuli_chr02	15903634	TT	CC	1946754178
SNP_P4_20924_15917479	NC_021161.1	Ca_kabuli_chr02	15917479	CC	AA	1946754179
SNP_P4_20925_15917494	NC_021161.1	Ca_kabuli_chr02	15917494	GG	TT	1946754182
SNP_P4_20926_15917530	NC_021161.1	Ca_kabuli_chr02	15917530	TT	GG	1946754184
SNP_P4_20928_15934932	NC_021161.1	Ca_kabuli_chr02	15934932	TT	CC	1946754186
SNP_P4_20929_15937756	NC_021161.1	Ca_kabuli_chr02	15937756	CC	TT	1946754188
SNP_P4_20930_15937757	NC_021161.1	Ca_kabuli_chr02	15937757	CC	AA	1946754190
SNP_P4_20931_15937761	NC_021161.1	Ca_kabuli_chr02	15937761	CC	TT	1946754192
SNP_P4_20932_15941069	NC_021161.1	Ca_kabuli_chr02	15941069	GG	AA	1946754193
SNP_P4_20933_15941453	NC_021161.1	Ca_kabuli_chr02	15941453	AA	GG	1946754195
SNP_P4_20934_15941461	NC_021161.1	Ca_kabuli_chr02	15941461	TT	CC	1946754197
SNP_P4_20935_15941465	NC_021161.1	Ca_kabuli_chr02	15941465	AA	CC	1946754199
SNP_P4_20936_15941474	NC_021161.1	Ca_kabuli_chr02	15941474	TT	CC	1946754201
SNP_P4_20937_15941479	NC_021161.1	Ca_kabuli_chr02	15941479	AA	TT	1946754203
SNP_P4_20938_15941483	NC_021161.1	Ca_kabuli_chr02	15941483	CC	TT	1946754205
SNP_P4_20939_15941484	NC_021161.1	Ca_kabuli_chr02	15941484	AA	GG	1946754207
SNP_P4_20940_15947665	NC_021161.1	Ca_kabuli_chr02	15947665	GG	TT	1946754209

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_20942_16003016	NC_021161.1	Ca_kabuli_chr02	16003016	GG	TT	1946754213
SNP_P4_20944_16062345	NC_021161.1	Ca_kabuli_chr02	16062345	TT	CC	1946754215
SNP_P4_20945_16080540	NC_021161.1	Ca_kabuli_chr02	16080540	CC	TT	1946754217
SNP_P4_20946_16082137	NC_021161.1	Ca_kabuli_chr02	16082137	GG	CC	1946754219
SNP_P4_20947_16097037	NC_021161.1	Ca_kabuli_chr02	16097037	CC	TT	1946754221
SNP_P4_20948_16155200	NC_021161.1	Ca_kabuli_chr02	16155200	TT	CC	1946754223
SNP_P4_20949_16155254	NC_021161.1	Ca_kabuli_chr02	16155254	AA	GG	1946754224
SNP_P4_20950_16171087	NC_021161.1	Ca_kabuli_chr02	16171087	CC	TT	1946754226
SNP_P4_20951_16171088	NC_021161.1	Ca_kabuli_chr02	16171088	CC	GG	1946754228
SNP_P4_20952_16171156	NC_021161.1	Ca_kabuli_chr02	16171156	CC	TT	1946754230
SNP_P4_20953_16171447	NC_021161.1	Ca_kabuli_chr02	16171447	AA	GG	1946754232
SNP_P4_20954_16171449	NC_021161.1	Ca_kabuli_chr02	16171449	TT	AA	1946754234
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SNP_P4_20958_16220849	NC_021161.1	Ca_kabuli_chr02	16220849	CC	TT	1946754240
SNP_P4_20959_16246340	NC_021161.1	Ca_kabuli_chr02	16246340	CC	AA	1946754242
SNP_P4_20960_16252107	NC_021161.1	Ca_kabuli_chr02	16252107	TT	AA	1946754244
SNP_P4_20961_16252132	NC_021161.1	Ca_kabuli_chr02	16252132	AA	GG	1946754246
SNP_P4_20962_16252212	NC_021161.1	Ca_kabuli_chr02	16252212	TT	CC	1946754248
SNP_P4_20963_16252218	NC_021161.1	Ca_kabuli_chr02	16252218	TT	CC	1946754250
SNP_P4_20964_16252226	NC_021161.1	Ca_kabuli_chr02	16252226	AA	GG	1946754252
SNP_P4_20965_16252233	NC_021161.1	Ca_kabuli_chr02	16252233	TT	AA	1946754254
SNP_P4_20966_16252247	NC_021161.1	Ca_kabuli_chr02	16252247	AA	GG	1946754256
SNP_P4_20967_16252501	NC_021161.1	Ca_kabuli_chr02	16252501	TT	CC	1946754258
SNP_P4_20968_16252603	NC_021161.1	Ca_kabuli_chr02	16252603	TT	CC	1946754260
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SNP_P4_20971_16330649	NC_021161.1	Ca_kabuli_chr02	16330649	TT	CC	1946754264
SNP_P4_20972_16335225	NC_021161.1	Ca_kabuli_chr02	16335225	TT	GG	1946754266
SNP_P4_20973_16340602	NC_021161.1	Ca_kabuli_chr02	16340602	GG	AA	1946754268
SNP_P4_20974_16341342	NC_021161.1	Ca_kabuli_chr02	16341342	GG	CC	1946754270
SNP_P4_20975_16341343	NC_021161.1	Ca_kabuli_chr02	16341343	AA	CC	1946754272
SNP_P4_20976_16341392	NC_021161.1	Ca_kabuli_chr02	16341392	TT	GG	1946754275
SNP_P4_20977_16341460	NC_021161.1	Ca_kabuli_chr02	16341460	GG	AA	1946754277
SNP_P4_20978_16351412	NC_021161.1	Ca_kabuli_chr02	16351412	TT	CC	1946754279
SNP_P4_20979_16365662	NC_021161.1	Ca_kabuli_chr02	16365662	TT	CC	1946754282
SNP_P4_20980_16368219	NC_021161.1	Ca_kabuli_chr02	16368219	CC	AA	1946754284
SNP_P4_20981_16416345	NC_021161.1	Ca_kabuli_chr02	16416345	TT	CC	1946754286
SNP_P4_20983_16433264	NC_021161.1	Ca_kabuli_chr02	16433264	TT	CC	1946754288
SNP_P4_20984_16436933	NC_021161.1	Ca_kabuli_chr02	16436933	TT	CC	1946754290
SNP_P4_20985_16456491	NC_021161.1	Ca_kabuli_chr02	16456491	GG	AA	1946754292
SNP_P4_20986_16456492	NC_021161.1	Ca_kabuli_chr02	16456492	GG	AA	1946754294

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_20988_16456508	NC_021161.1	Ca_kabuli_chr02	16456508	AA	CC	1946754298
SNP_P4_20989_16456524	NC_021161.1	Ca_kabuli_chr02	16456524	CC	AA	1946754300
SNP_P4_20990_16456561	NC_021161.1	Ca_kabuli_chr02	16456561	CC	TT	1946754302
SNP_P4_20992_16456591	NC_021161.1	Ca_kabuli_chr02	16456591	CC	TT	1946754304
SNP_P4_20993_16456659	NC_021161.1	Ca_kabuli_chr02	16456659	CC	TT	1946754306
SNP_P4_20994_16456731	NC_021161.1	Ca_kabuli_chr02	16456731	TT	CC	1946754307
SNP_P4_20995_16458241	NC_021161.1	Ca_kabuli_chr02	16458241	CC	TT	1946754309
SNP_P4_20996_16465080	NC_021161.1	Ca_kabuli_chr02	16465080	CC	AA	1946754311
SNP_P4_20997_16465093	NC_021161.1	Ca_kabuli_chr02	16465093	TT	CC	1946754313
SNP_P4_20998_16465565	NC_021161.1	Ca_kabuli_chr02	16465565	GG	TT	1946754315
SNP_P4_20999_16489672	NC_021161.1	Ca_kabuli_chr02	16489672	GG	AA	1946754317
SNP_P4_21001_16507755	NC_021161.1	Ca_kabuli_chr02	16507755	AA	TT	1946754319
SNP_P4_21002_16508483	NC_021161.1	Ca_kabuli_chr02	16508483	TT	CC	1946754321
SNP_P4_21003_16508764	NC_021161.1	Ca_kabuli_chr02	16508764	CC	TT	1946754323
SNP_P4_21004_16509102	NC_021161.1	Ca_kabuli_chr02	16509102	TT	CC	1946754325
SNP_P4_21005_16509249	NC_021161.1	Ca_kabuli_chr02	16509249	GG	AA	1946754327
SNP_P4_21006_16509316	NC_021161.1	Ca_kabuli_chr02	16509316	TT	CC	1946754329
SNP_P4_21007_16509586	NC_021161.1	Ca_kabuli_chr02	16509586	CC	TT	1946754331
SNP_P4_21008_16510339	NC_021161.1	Ca_kabuli_chr02	16510339	GG	AA	1946754333
SNP_P4_21009_16510350	NC_021161.1	Ca_kabuli_chr02	16510350	AA	GG	1946754335
SNP_P4_21010_16511747	NC_021161.1	Ca_kabuli_chr02	16511747	GG	AA	1946754337
SNP_P4_21011_16513075	NC_021161.1	Ca_kabuli_chr02	16513075	TT	GG	1946754339
SNP_P4_21012_16514195	NC_021161.1	Ca_kabuli_chr02	16514195	AA	GG	1946754341
SNP_P4_21013_16514414	NC_021161.1	Ca_kabuli_chr02	16514414	GG	AA	1946754343
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SNP_P4_21017_16537413	NC_021161.1	Ca_kabuli_chr02	16537413	GG	TT	1946754348
SNP_P4_21018_16537427	NC_021161.1	Ca_kabuli_chr02	16537427	AA	CC	1946754351
SNP_P4_21019_16537675	NC_021161.1	Ca_kabuli_chr02	16537675	GG	AA	1946754352
SNP_P4_21020_16565488	NC_021161.1	Ca_kabuli_chr02	16565488	TT	CC	1946754354
SNP_P4_21021_16603169	NC_021161.1	Ca_kabuli_chr02	16603169	TT	CC	1946754356
SNP_P4_21022_16604893	NC_021161.1	Ca_kabuli_chr02	16604893	GG	AA	1946754358
SNP_P4_21023_16648031	NC_021161.1	Ca_kabuli_chr02	16648031	TT	CC	1946754360
SNP_P4_21024_16650062	NC_021161.1	Ca_kabuli_chr02	16650062	TT	CC	1946754362
SNP_P4_21025_16650071	NC_021161.1	Ca_kabuli_chr02	16650071	CC	TT	1946754364
SNP_P4_21027_16650158	NC_021161.1	Ca_kabuli_chr02	16650158	AA	GG	1946754366
SNP_P4_21028_16665310	NC_021161.1	Ca_kabuli_chr02	16665310	TT	AA	1946754368
SNP_P4_21029_16697585	NC_021161.1	Ca_kabuli_chr02	16697585	CC	TT	1946754370
SNP_P4_21030_16713574	NC_021161.1	Ca_kabuli_chr02	16713574	GG	TT	1946754372
SNP_P4_21031_16788579	NC_021161.1	Ca_kabuli_chr02	16788579	AA	TT	1946754374
SNP_P4_21032_16823252	NC_021161.1	Ca_kabuli_chr02	16823252	AA	GG	1946754376

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_21034_16864507	NC_021161.1	Ca_kabuli_chr02	16864507	CC	AA	1946754380
SNP_P4_21035_16864702	NC_021161.1	Ca_kabuli_chr02	16864702	AA	GG	1946754382
SNP_P4_21036_16864729	NC_021161.1	Ca_kabuli_chr02	16864729	TT	CC	1946754383
SNP_P4_21037_16864811	NC_021161.1	Ca_kabuli_chr02	16864811	GG	AA	1946754385
SNP_P4_21038_16905535	NC_021161.1	Ca_kabuli_chr02	16905535	TT	GG	1946754387
SNP_P4_21039_16905687	NC_021161.1	Ca_kabuli_chr02	16905687	TT	CC	1946754389
SNP_P4_21040_16905744	NC_021161.1	Ca_kabuli_chr02	16905744	GG	AA	1946754391
SNP_P4_21042_16954408	NC_021161.1	Ca_kabuli_chr02	16954408	AA	GG	1946754393
SNP_P4_21043_16984549	NC_021161.1	Ca_kabuli_chr02	16984549	GG	AA	1946754395
SNP_P4_21044_16985721	NC_021161.1	Ca_kabuli_chr02	16985721	AA	TT	1946754397
SNP_P4_21045_16990561	NC_021161.1	Ca_kabuli_chr02	16990561	TT	CC	1946754399
SNP_P4_21046_16990617	NC_021161.1	Ca_kabuli_chr02	16990617	AA	TT	1946754401
SNP_P4_21047_16990665	NC_021161.1	Ca_kabuli_chr02	16990665	GG	AA	1946754403
SNP_P4_21048_16990666	NC_021161.1	Ca_kabuli_chr02	16990666	AA	GG	1946754405
SNP_P4_21049_16990671	NC_021161.1	Ca_kabuli_chr02	16990671	CC	TT	1946754407
SNP_P4_21050_16991361	NC_021161.1	Ca_kabuli_chr02	16991361	CC	AA	1946754409
SNP_P4_21051_16991365	NC_021161.1	Ca_kabuli_chr02	16991365	CC	TT	1946754411
SNP_P4_21052_16991367	NC_021161.1	Ca_kabuli_chr02	16991367	CC	GG	1946754413
SNP_P4_21053_16991372	NC_021161.1	Ca_kabuli_chr02	16991372	CC	TT	1946754415
SNP_P4_21054_16991409	NC_021161.1	Ca_kabuli_chr02	16991409	GG	AA	1946754417
SNP_P4_21055_16996384	NC_021161.1	Ca_kabuli_chr02	16996384	TT	AA	1946754419
SNP_P4_21056_17030318	NC_021161.1	Ca_kabuli_chr02	17030318	CC	AA	1946754421
SNP_P4_21057_17030590	NC_021161.1	Ca_kabuli_chr02	17030590	CC	AA	1946754423
SNP_P4_21058_17030972	NC_021161.1	Ca_kabuli_chr02	17030972	AA	TT	1946754425
SNP_P4_21059_17031660	NC_021161.1	Ca_kabuli_chr02	17031660	GG	AA	1946754427
SNP_P4_21060_17039027	NC_021161.1	Ca_kabuli_chr02	17039027	GG	TT	1946754429
SNP_P4_21061_17039036	NC_021161.1	Ca_kabuli_chr02	17039036	GG	AA	1946754431
SNP_P4_21062_17046197	NC_021161.1	Ca_kabuli_chr02	17046197	CC	AA	1946754433
SNP_P4_21064_17050342	NC_021161.1	Ca_kabuli_chr02	17050342	GG	AA	1946754435
SNP_P4_21065_17050371	NC_021161.1	Ca_kabuli_chr02	17050371	TT	GG	1946754437
SNP_P4_21066_17051147	NC_021161.1	Ca_kabuli_chr02	17051147	GG	AA	1946754439
SNP_P4_21068_17061413	NC_021161.1	Ca_kabuli_chr02	17061413	GG	AA	1946754441
SNP_P4_21069_17062079	NC_021161.1	Ca_kabuli_chr02	17062079	AA	GG	1946754443
SNP_P4_21070_17106692	NC_021161.1	Ca_kabuli_chr02	17106692	TT	GG	1946754445
SNP_P4_21071_17158250	NC_021161.1	Ca_kabuli_chr02	17158250	TT	CC	1946754447
SNP_P4_21072_17161727	NC_021161.1	Ca_kabuli_chr02	17161727	TT	CC	1946754449
SNP_P4_21073_17161737	NC_021161.1	Ca_kabuli_chr02	17161737	GG	AA	1946754451
SNP_P4_21074_17161914	NC_021161.1	Ca_kabuli_chr02	17161914	TT	AA	1946754453
SNP_P4_21075_17161927	NC_021161.1	Ca_kabuli_chr02	17161927	GG	AA	1946754454
SNP_P4_21076_17203676	NC_021161.1	Ca_kabuli_chr02	17203676	GG	TT	1946754456
SNP_P4_21077_17203869	NC_021161.1	Ca_kabuli_chr02	17203869	GG	AA	1946754458

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_21079_17204167	NC_021161.1	Ca_kabuli_chr02	17204167	CC	AA	1946754462
SNP_P4_21080_17204183	NC_021161.1	Ca_kabuli_chr02	17204183	AA	GG	1946754464
SNP_P4_21081_17208801	NC_021161.1	Ca_kabuli_chr02	17208801	AA	GG	1946754466
SNP_P4_21082_17208805	NC_021161.1	Ca_kabuli_chr02	17208805	GG	AA	1946754468
SNP_P4_21083_17208814	NC_021161.1	Ca_kabuli_chr02	17208814	AA	CC	1946754470
SNP_P4_21084_17208826	NC_021161.1	Ca_kabuli_chr02	17208826	GG	AA	1946754472
SNP_P4_21085_17208829	NC_021161.1	Ca_kabuli_chr02	17208829	TT	CC	1946754474
SNP_P4_21086_17208837	NC_021161.1	Ca_kabuli_chr02	17208837	TT	GG	1946754476
SNP_P4_21087_17208851	NC_021161.1	Ca_kabuli_chr02	17208851	CC	TT	1946754478
SNP_P4_21088_17208855	NC_021161.1	Ca_kabuli_chr02	17208855	AA	GG	1946754480
SNP_P4_21089_17208943	NC_021161.1	Ca_kabuli_chr02	17208943	TT	CC	1946754482
SNP_P4_21090_17209014	NC_021161.1	Ca_kabuli_chr02	17209014	TT	CC	1946754484
SNP_P4_21091_17209030	NC_021161.1	Ca_kabuli_chr02	17209030	TT	CC	1946754486
SNP_P4_21092_17209152	NC_021161.1	Ca_kabuli_chr02	17209152	TT	CC	1946754488
SNP_P4_21093_17209200	NC_021161.1	Ca_kabuli_chr02	17209200	TT	CC	1946754490
SNP_P4_21094_17209221	NC_021161.1	Ca_kabuli_chr02	17209221	CC	TT	1946754492
SNP_P4_21095_17209236	NC_021161.1	Ca_kabuli_chr02	17209236	TT	CC	1946754494
SNP_P4_21097_17209271	NC_021161.1	Ca_kabuli_chr02	17209271	TT	AA	1946754495
SNP_P4_21098_17209272	NC_021161.1	Ca_kabuli_chr02	17209272	AA	CC	1946754497
SNP_P4_21099_17209293	NC_021161.1	Ca_kabuli_chr02	17209293	GG	AA	1946754499
SNP_P4_21100_17209316	NC_021161.1	Ca_kabuli_chr02	17209316	GG	AA	1946754501
SNP_P4_21101_17209335	NC_021161.1	Ca_kabuli_chr02	17209335	AA	TT	1946754503
SNP_P4_21102_17209350	NC_021161.1	Ca_kabuli_chr02	17209350	CC	TT	1946754505
SNP_P4_21103_17238401	NC_021161.1	Ca_kabuli_chr02	17238401	TT	AA	1946754507
SNP_P4_21104_17243366	NC_021161.1	Ca_kabuli_chr02	17243366	AA	GG	1946754509
SNP_P4_21105_17257270	NC_021161.1	Ca_kabuli_chr02	17257270	TT	GG	1946754511
SNP_P4_21106_17257421	NC_021161.1	Ca_kabuli_chr02	17257421	GG	AA	1946754513
SNP_P4_21107_17257469	NC_021161.1	Ca_kabuli_chr02	17257469	AA	GG	1946754515
SNP_P4_21108_17257480	NC_021161.1	Ca_kabuli_chr02	17257480	AA	GG	1946754517
SNP_P4_21109_17257544	NC_021161.1	Ca_kabuli_chr02	17257544	AA	GG	1946754519
SNP_P4_21110_17262711	NC_021161.1	Ca_kabuli_chr02	17262711	CC	TT	1946754521
SNP_P4_21111_17301938	NC_021161.1	Ca_kabuli_chr02	17301938	GG	AA	1946754523
SNP_P4_21113_17387698	NC_021161.1	Ca_kabuli_chr02	17387698	TT	AA	1946754525
SNP_P4_21114_17387875	NC_021161.1	Ca_kabuli_chr02	17387875	CC	TT	1946754527
SNP_P4_21116_17394474	NC_021161.1	Ca_kabuli_chr02	17394474	AA	GG	1946754529
SNP_P4_21117_17395652	NC_021161.1	Ca_kabuli_chr02	17395652	AA	GG	1946754531
SNP_P4_21118_17399943	NC_021161.1	Ca_kabuli_chr02	17399943	AA	GG	1946754533
SNP_P4_21119_17402394	NC_021161.1	Ca_kabuli_chr02	17402394	AA	GG	1946754535
SNP_P4_21120_17406919	NC_021161.1	Ca_kabuli_chr02	17406919	AA	GG	1946754537
SNP_P4_21121_17407191	NC_021161.1	Ca_kabuli_chr02	17407191	TT	CC	1946754539
SNP_P4_21122_17407192	NC_021161.1	Ca_kabuli_chr02	17407192	TT	AA	1946754541

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_21124_17407243	NC_021161.1	Ca_kabuli_chr02	17407243	TT	CC	1946754545
SNP_P4_21125_17407290	NC_021161.1	Ca_kabuli_chr02	17407290	CC	TT	1946754547
SNP_P4_21126_17407306	NC_021161.1	Ca_kabuli_chr02	17407306	TT	CC	1946754549
SNP_P4_21127_17412122	NC_021161.1	Ca_kabuli_chr02	17412122	CC	TT	1946754551
SNP_P4_21128_17435982	NC_021161.1	Ca_kabuli_chr02	17435982	CC	TT	1946754553
SNP_P4_21129_17487287	NC_021161.1	Ca_kabuli_chr02	17487287	TT	CC	1946754555
SNP_P4_21130_17487685	NC_021161.1	Ca_kabuli_chr02	17487685	AA	GG	1946754557
SNP_P4_21131_17490061	NC_021161.1	Ca_kabuli_chr02	17490061	TT	GG	1946754559
SNP_P4_21132_17490078	NC_021161.1	Ca_kabuli_chr02	17490078	AA	GG	1946754561
SNP_P4_21133_17490369	NC_021161.1	Ca_kabuli_chr02	17490369	AA	GG	1946754563
SNP_P4_21134_17490763	NC_021161.1	Ca_kabuli_chr02	17490763	AA	TT	1946754565
SNP_P4_21135_17491195	NC_021161.1	Ca_kabuli_chr02	17491195	AA	CC	1946754567
SNP_P4_21136_17491220	NC_021161.1	Ca_kabuli_chr02	17491220	GG	AA	1946754569
SNP_P4_21137_17491231	NC_021161.1	Ca_kabuli_chr02	17491231	AA	GG	1946754571
SNP_P4_21138_17491245	NC_021161.1	Ca_kabuli_chr02	17491245	CC	TT	1946754573
SNP_P4_21139_17491263	NC_021161.1	Ca_kabuli_chr02	17491263	AA	GG	1946754575
SNP_P4_21140_17491269	NC_021161.1	Ca_kabuli_chr02	17491269	TT	AA	1946754577
SNP_P4_21142_17540124	NC_021161.1	Ca_kabuli_chr02	17540124	TT	CC	1946754579
SNP_P4_21143_17540165	NC_021161.1	Ca_kabuli_chr02	17540165	AA	TT	1946754581
SNP_P4_21144_17551146	NC_021161.1	Ca_kabuli_chr02	17551146	GG	AA	1946754583
SNP_P4_21145_17551479	NC_021161.1	Ca_kabuli_chr02	17551479	CC	TT	1946754585
SNP_P4_21146_17551577	NC_021161.1	Ca_kabuli_chr02	17551577	AA	CC	1946754586
SNP_P4_21147_17551629	NC_021161.1	Ca_kabuli_chr02	17551629	CC	AA	1946754588
SNP_P4_21148_17551656	NC_021161.1	Ca_kabuli_chr02	17551656	AA	GG	1946754591
SNP_P4_21150_17551859	NC_021161.1	Ca_kabuli_chr02	17551859	AA	CC	1946754593
SNP_P4_21151_17551912	NC_021161.1	Ca_kabuli_chr02	17551912	GG	AA	1946754595
SNP_P4_21152_17562090	NC_021161.1	Ca_kabuli_chr02	17562090	CC	GG	1946754597
SNP_P4_21153_17562940	NC_021161.1	Ca_kabuli_chr02	17562940	CC	TT	1946754599
SNP_P4_21154_17563229	NC_021161.1	Ca_kabuli_chr02	17563229	AA	TT	1946754601
SNP_P4_21155_17563233	NC_021161.1	Ca_kabuli_chr02	17563233	TT	CC	1946754602
SNP_P4_21156_17565172	NC_021161.1	Ca_kabuli_chr02	17565172	CC	AA	1946754604
SNP_P4_21157_17578465	NC_021161.1	Ca_kabuli_chr02	17578465	TT	CC	1946754606
SNP_P4_21158_17587369	NC_021161.1	Ca_kabuli_chr02	17587369	TT	CC	1946754608
SNP_P4_21159_17587400	NC_021161.1	Ca_kabuli_chr02	17587400	CC	AA	1946754610
SNP_P4_21160_17587727	NC_021161.1	Ca_kabuli_chr02	17587727	TT	CC	1946754612
SNP_P4_21161_17588593	NC_021161.1	Ca_kabuli_chr02	17588593	TT	AA	1946754614
SNP_P4_21162_17588609	NC_021161.1	Ca_kabuli_chr02	17588609	TT	CC	1946754616
SNP_P4_21163_17588632	NC_021161.1	Ca_kabuli_chr02	17588632	GG	TT	1946754618
SNP_P4_21164_17588668	NC_021161.1	Ca_kabuli_chr02	17588668	CC	TT	1946754620
SNP_P4_21165_17595233	NC_021161.1	Ca_kabuli_chr02	17595233	AA	GG	1946754622
SNP_P4_21166_17725170	NC_021161.1	Ca_kabuli_chr02	17725170	AA	GG	1946754624

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_21168_17883493	NC_021161.1	Ca_kabuli_chr02	17883493	TT	AA	1946754628
SNP_P4_21169_17892538	NC_021161.1	Ca_kabuli_chr02	17892538	TT	CC	1946754630
SNP_P4_21170_17892566	NC_021161.1	Ca_kabuli_chr02	17892566	AA	GG	1946754632
SNP_P4_21171_17892567	NC_021161.1	Ca_kabuli_chr02	17892567	AA	GG	1946754634
SNP_P4_21172_17892574	NC_021161.1	Ca_kabuli_chr02	17892574	CC	TT	1946754636
SNP_P4_21173_17892631	NC_021161.1	Ca_kabuli_chr02	17892631	AA	GG	1946754638
SNP_P4_21174_17892636	NC_021161.1	Ca_kabuli_chr02	17892636	AA	GG	1946754640
SNP_P4_21175_17892640	NC_021161.1	Ca_kabuli_chr02	17892640	AA	GG	1946754642
SNP_P4_21176_17892653	NC_021161.1	Ca_kabuli_chr02	17892653	TT	GG	1946754644
SNP_P4_21177_17892994	NC_021161.1	Ca_kabuli_chr02	17892994	TT	CC	1946754646
SNP_P4_21178_17904363	NC_021161.1	Ca_kabuli_chr02	17904363	AA	GG	1946754648
SNP_P4_21179_17904386	NC_021161.1	Ca_kabuli_chr02	17904386	GG	AA	1946754650
SNP_P4_21180_17915052	NC_021161.1	Ca_kabuli_chr02	17915052	CC	TT	1946754652
SNP_P4_21181_17915067	NC_021161.1	Ca_kabuli_chr02	17915067	TT	GG	1946754654
SNP_P4_21182_17915098	NC_021161.1	Ca_kabuli_chr02	17915098	CC	GG	1946754656
SNP_P4_21183_17915130	NC_021161.1	Ca_kabuli_chr02	17915130	TT	CC	1946754658
SNP_P4_21184_17915732	NC_021161.1	Ca_kabuli_chr02	17915732	GG	TT	1946754660
SNP_P4_21185_17916155	NC_021161.1	Ca_kabuli_chr02	17916155	AA	CC	1946754662
SNP_P4_21186_17918765	NC_021161.1	Ca_kabuli_chr02	17918765	CC	TT	1946754664
SNP_P4_21187_17924947	NC_021161.1	Ca_kabuli_chr02	17924947	TT	CC	1946754666
SNP_P4_21188_17971992	NC_021161.1	Ca_kabuli_chr02	17971992	CC	TT	1946754668
SNP_P4_21189_17971997	NC_021161.1	Ca_kabuli_chr02	17971997	GG	CC	1946754670
SNP_P4_21190_17981411	NC_021161.1	Ca_kabuli_chr02	17981411	CC	GG	1946754673
SNP_P4_21192_17995635	NC_021161.1	Ca_kabuli_chr02	17995635	CC	TT	1946754675
SNP_P4_21193_17995654	NC_021161.1	Ca_kabuli_chr02	17995654	AA	GG	1946754677
SNP_P4_21194_17996668	NC_021161.1	Ca_kabuli_chr02	17996668	GG	AA	1946754679
SNP_P4_21195_17996695	NC_021161.1	Ca_kabuli_chr02	17996695	TT	GG	1946754681
SNP_P4_21196_17996750	NC_021161.1	Ca_kabuli_chr02	17996750	CC	GG	1946754683
SNP_P4_21197_17997341	NC_021161.1	Ca_kabuli_chr02	17997341	CC	TT	1946754685
SNP_P4_21198_17997684	NC_021161.1	Ca_kabuli_chr02	17997684	TT	CC	1946754687
SNP_P4_21199_17997689	NC_021161.1	Ca_kabuli_chr02	17997689	CC	TT	1946754689
SNP_P4_21200_17997698	NC_021161.1	Ca_kabuli_chr02	17997698	AA	GG	1946754691
SNP_P4_21201_17997822	NC_021161.1	Ca_kabuli_chr02	17997822	TT	CC	1946754693
SNP_P4_21202_17997823	NC_021161.1	Ca_kabuli_chr02	17997823	TT	CC	1946754695
SNP_P4_21203_17997827	NC_021161.1	Ca_kabuli_chr02	17997827	GG	AA	1946754697
SNP_P4_21204_17997851	NC_021161.1	Ca_kabuli_chr02	17997851	AA	GG	1946754699
SNP_P4_21205_17997889	NC_021161.1	Ca_kabuli_chr02	17997889	TT	GG	1946754701
SNP_P4_21206_18024804	NC_021161.1	Ca_kabuli_chr02	18024804	CC	GG	1946754703
SNP_P4_21207_18083297	NC_021161.1	Ca_kabuli_chr02	18083297	AA	CC	1946754705
SNP_P4_21208_18101570	NC_021161.1	Ca_kabuli_chr02	18101570	GG	AA	1946754707
SNP_P4_21209_18101646	NC_021161.1	Ca_kabuli_chr02	18101646	GG	AA	1946754709

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_21211_18111365	NC_021161.1	Ca_kabuli_chr02	18111365	GG	TT	1946754713
SNP_P4_21212_18111370	NC_021161.1	Ca_kabuli_chr02	18111370	AA	TT	1946754715
SNP_P4_21213_18125602	NC_021161.1	Ca_kabuli_chr02	18125602	TT	CC	1946754717
SNP_P4_21214_18169549	NC_021161.1	Ca_kabuli_chr02	18169549	AA	CC	1946754719
SNP_P4_21215_18169553	NC_021161.1	Ca_kabuli_chr02	18169553	CC	GG	1946754721
SNP_P4_21216_18169694	NC_021161.1	Ca_kabuli_chr02	18169694	GG	AA	1946754723
SNP_P4_21217_18169897	NC_021161.1	Ca_kabuli_chr02	18169897	GG	AA	1946754725
SNP_P4_21218_18170055	NC_021161.1	Ca_kabuli_chr02	18170055	TT	AA	1946754727
SNP_P4_21219_18170062	NC_021161.1	Ca_kabuli_chr02	18170062	AA	CC	1946754729
SNP_P4_21220_18170071	NC_021161.1	Ca_kabuli_chr02	18170071	TT	AA	1946754731
SNP_P4_21221_18213731	NC_021161.1	Ca_kabuli_chr02	18213731	AA	GG	1946754733
SNP_P4_21224_18299397	NC_021161.1	Ca_kabuli_chr02	18299397	AA	GG	1946754735
SNP_P4_21225_18326476	NC_021161.1	Ca_kabuli_chr02	18326476	GG	CC	1946754737
SNP_P4_21226_18326511	NC_021161.1	Ca_kabuli_chr02	18326511	CC	TT	1946754739
SNP_P4_21227_18326572	NC_021161.1	Ca_kabuli_chr02	18326572	AA	GG	1946754741
SNP_P4_21228_18333038	NC_021161.1	Ca_kabuli_chr02	18333038	CC	TT	1946754743
SNP_P4_21229_18333045	NC_021161.1	Ca_kabuli_chr02	18333045	CC	TT	1946754745
SNP_P4_21230_18333046	NC_021161.1	Ca_kabuli_chr02	18333046	AA	TT	1946754747
SNP_P4_21232_18344951	NC_021161.1	Ca_kabuli_chr02	18344951	TT	CC	1946754749
SNP_P4_21233_18344952	NC_021161.1	Ca_kabuli_chr02	18344952	TT	CC	1946754751
SNP_P4_21234_18345357	NC_021161.1	Ca_kabuli_chr02	18345357	AA	GG	1946754753
SNP_P4_21235_18345358	NC_021161.1	Ca_kabuli_chr02	18345358	AA	CC	1946754755
SNP_P4_21236_18381798	NC_021161.1	Ca_kabuli_chr02	18381798	AA	GG	1946754757
SNP_P4_21237_18408955	NC_021161.1	Ca_kabuli_chr02	18408955	TT	CC	1946754759
SNP_P4_21238_18408988	NC_021161.1	Ca_kabuli_chr02	18408988	AA	GG	1946754760
SNP_P4_21239_18409012	NC_021161.1	Ca_kabuli_chr02	18409012	GG	CC	1946754762
SNP_P4_21240_18409028	NC_021161.1	Ca_kabuli_chr02	18409028	CC	TT	1946754764
SNP_P4_21241_18409050	NC_021161.1	Ca_kabuli_chr02	18409050	CC	TT	1946754766
SNP_P4_21242_18409151	NC_021161.1	Ca_kabuli_chr02	18409151	AA	TT	1946754768
SNP_P4_21243_18409324	NC_021161.1	Ca_kabuli_chr02	18409324	CC	AA	1946754771
SNP_P4_21244_18409376	NC_021161.1	Ca_kabuli_chr02	18409376	AA	GG	1946754773
SNP_P4_21245_18409472	NC_021161.1	Ca_kabuli_chr02	18409472	TT	CC	1946754775
SNP_P4_21246_18410980	NC_021161.1	Ca_kabuli_chr02	18410980	TT	CC	1946754777
SNP_P4_21247_18438386	NC_021161.1	Ca_kabuli_chr02	18438386	GG	AA	1946754779
SNP_P4_21248_18456088	NC_021161.1	Ca_kabuli_chr02	18456088	GG	AA	1946754781
SNP_P4_21249_18462303	NC_021161.1	Ca_kabuli_chr02	18462303	AA	TT	1946754783
SNP_P4_21250_18480182	NC_021161.1	Ca_kabuli_chr02	18480182	AA	CC	1946754785
SNP_P4_21252_18516994	NC_021161.1	Ca_kabuli_chr02	18516994	GG	AA	1946754787
SNP_P4_21253_18563317	NC_021161.1	Ca_kabuli_chr02	18563317	TT	CC	1946754789
SNP_P4_21254_18563319	NC_021161.1	Ca_kabuli_chr02	18563319	AA	GG	1946754791
SNP_P4_21255_18565372	NC_021161.1	Ca_kabuli_chr02	18565372	AA	CC	1946754793

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_21257_18574208	NC_021161.1	Ca_kabuli_chr02	18574208	GG	AA	1946754797
SNP_P4_21258_18587045	NC_021161.1	Ca_kabuli_chr02	18587045	TT	CC	1946754799
SNP_P4_21259_18587092	NC_021161.1	Ca_kabuli_chr02	18587092	AA	TT	1946754801
SNP_P4_21260_18587192	NC_021161.1	Ca_kabuli_chr02	18587192	GG	AA	1946754803
SNP_P4_21261_18595634	NC_021161.1	Ca_kabuli_chr02	18595634	CC	TT	1946754805
SNP_P4_21262_18610010	NC_021161.1	Ca_kabuli_chr02	18610010	TT	CC	1946754807
SNP_P4_21263_18660242	NC_021161.1	Ca_kabuli_chr02	18660242	CC	AA	1946754809
SNP_P4_21264_18660250	NC_021161.1	Ca_kabuli_chr02	18660250	TT	CC	1946754811
SNP_P4_21265_18660251	NC_021161.1	Ca_kabuli_chr02	18660251	CC	AA	1946754813
SNP_P4_21266_18663926	NC_021161.1	Ca_kabuli_chr02	18663926	CC	TT	1946754815
SNP_P4_21267_18699680	NC_021161.1	Ca_kabuli_chr02	18699680	TT	CC	1946754817
SNP_P4_21268_18699681	NC_021161.1	Ca_kabuli_chr02	18699681	GG	AA	1946754819
SNP_P4_21269_18700607	NC_021161.1	Ca_kabuli_chr02	18700607	CC	AA	1946754821
SNP_P4_21270_18703517	NC_021161.1	Ca_kabuli_chr02	18703517	TT	AA	1946754823
SNP_P4_21271_18707456	NC_021161.1	Ca_kabuli_chr02	18707456	GG	AA	1946754825
SNP_P4_21272_18707482	NC_021161.1	Ca_kabuli_chr02	18707482	GG	TT	1946754827
SNP_P4_21273_18711865	NC_021161.1	Ca_kabuli_chr02	18711865	TT	GG	1946754829
SNP_P4_21274_18714370	NC_021161.1	Ca_kabuli_chr02	18714370	CC	TT	1946754832
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SNP_P4_21276_18755446	NC_021161.1	Ca_kabuli_chr02	18755446	CC	GG	1946754836
SNP_P4_21277_18758396	NC_021161.1	Ca_kabuli_chr02	18758396	GG	AA	1946754838
SNP_P4_21278_18758406	NC_021161.1	Ca_kabuli_chr02	18758406	TT	CC	1946754840
SNP_P4_21279_18758412	NC_021161.1	Ca_kabuli_chr02	18758412	TT	CC	1946754842
SNP_P4_21280_18758788	NC_021161.1	Ca_kabuli_chr02	18758788	AA	GG	1946754843
SNP_P4_21281_18776218	NC_021161.1	Ca_kabuli_chr02	18776218	CC	TT	1946754845
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SNP_P4_21283_18776229	NC_021161.1	Ca_kabuli_chr02	18776229	TT	CC	1946754849
SNP_P4_21284_18776245	NC_021161.1	Ca_kabuli_chr02	18776245	AA	CC	1946754851
SNP_P4_21285_18776272	NC_021161.1	Ca_kabuli_chr02	18776272	CC	TT	1946754853
SNP_P4_21286_18776591	NC_021161.1	Ca_kabuli_chr02	18776591	AA	TT	1946754855
SNP_P4_21287_18776632	NC_021161.1	Ca_kabuli_chr02	18776632	TT	GG	1946754857
SNP_P4_21288_18776637	NC_021161.1	Ca_kabuli_chr02	18776637	CC	TT	1946754859
SNP_P4_21289_18776649	NC_021161.1	Ca_kabuli_chr02	18776649	GG	AA	1946754861
SNP_P4_21290_18776675	NC_021161.1	Ca_kabuli_chr02	18776675	AA	TT	1946754863
SNP_P4_21294_18896602	NC_021161.1	Ca_kabuli_chr02	18896602	CC	AA	1946754865
SNP_P4_21295_18901504	NC_021161.1	Ca_kabuli_chr02	18901504	GG	AA	1946754867
SNP_P4_21296_18915840	NC_021161.1	Ca_kabuli_chr02	18915840	AA	GG	1946754869
SNP_P4_21297_18936558	NC_021161.1	Ca_kabuli_chr02	18936558	TT	GG	1946754871
SNP_P4_21298_18944165	NC_021161.1	Ca_kabuli_chr02	18944165	CC	AA	1946754873
SNP_P4_21299_18944455	NC_021161.1	Ca_kabuli_chr02	18944455	TT	CC	1946754874
SNP_P4_21300_18944573	NC_021161.1	Ca_kabuli_chr02	18944573	GG	AA	1946754876

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_21303_19000333	NC_021161.1	Ca_kabuli_chr02	19000333	CC	TT	1946754880
SNP_P4_21304_19001491	NC_021161.1	Ca_kabuli_chr02	19001491	CC	TT	1946754882
SNP_P4_21305_19004061	NC_021161.1	Ca_kabuli_chr02	19004061	TT	CC	1946754884
SNP_P4_21306_19008963	NC_021161.1	Ca_kabuli_chr02	19008963	AA	GG	1946754886
SNP_P4_21308_19008991	NC_021161.1	Ca_kabuli_chr02	19008991	GG	TT	1946754888
SNP_P4_21309_19009078	NC_021161.1	Ca_kabuli_chr02	19009078	GG	AA	1946754890
SNP_P4_21310_19009112	NC_021161.1	Ca_kabuli_chr02	19009112	GG	CC	1946754892
SNP_P4_21311_19009176	NC_021161.1	Ca_kabuli_chr02	19009176	CC	AA	1946754894
SNP_P4_21312_19009188	NC_021161.1	Ca_kabuli_chr02	19009188	TT	CC	1946754896
SNP_P4_21313_19009207	NC_021161.1	Ca_kabuli_chr02	19009207	CC	TT	1946754898
SNP_P4_21314_19009219	NC_021161.1	Ca_kabuli_chr02	19009219	GG	AA	1946754900
SNP_P4_21315_19009234	NC_021161.1	Ca_kabuli_chr02	19009234	AA	CC	1946754902
SNP_P4_21316_19009310	NC_021161.1	Ca_kabuli_chr02	19009310	TT	GG	1946754904
SNP_P4_21317_19009436	NC_021161.1	Ca_kabuli_chr02	19009436	CC	TT	1946754906
SNP_P4_21318_19009504	NC_021161.1	Ca_kabuli_chr02	19009504	AA	TT	1946754908
SNP_P4_21319_19009565	NC_021161.1	Ca_kabuli_chr02	19009565	TT	GG	1946754910
SNP_P4_21320_19015885	NC_021161.1	Ca_kabuli_chr02	19015885	CC	TT	1946754912
SNP_P4_21321_19015940	NC_021161.1	Ca_kabuli_chr02	19015940	GG	TT	1946754914
SNP_P4_21323_19016017	NC_021161.1	Ca_kabuli_chr02	19016017	AA	GG	1946754916
SNP_P4_21324_19016023	NC_021161.1	Ca_kabuli_chr02	19016023	AA	GG	1946754918
SNP_P4_21325_19016054	NC_021161.1	Ca_kabuli_chr02	19016054	CC	GG	1946754920
SNP_P4_21326_19016091	NC_021161.1	Ca_kabuli_chr02	19016091	CC	AA	1946754922
SNP_P4_21327_19016105	NC_021161.1	Ca_kabuli_chr02	19016105	GG	CC	1946754924
SNP_P4_21328_19016117	NC_021161.1	Ca_kabuli_chr02	19016117	GG	AA	1946754926
SNP_P4_21329_19016130	NC_021161.1	Ca_kabuli_chr02	19016130	TT	CC	1946754928
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SNP_P4_21331_19016194	NC_021161.1	Ca_kabuli_chr02	19016194	AA	GG	1946754932
SNP_P4_21332_19016195	NC_021161.1	Ca_kabuli_chr02	19016195	CC	TT	1946754934
SNP_P4_21333_19016204	NC_021161.1	Ca_kabuli_chr02	19016204	CC	GG	1946754936
SNP_P4_21334_19016206	NC_021161.1	Ca_kabuli_chr02	19016206	AA	GG	1946754938
SNP_P4_21335_19016276	NC_021161.1	Ca_kabuli_chr02	19016276	TT	GG	1946754940
SNP_P4_21336_19016301	NC_021161.1	Ca_kabuli_chr02	19016301	TT	CC	1946754942
SNP_P4_21337_19016333	NC_021161.1	Ca_kabuli_chr02	19016333	CC	AA	1946754944
SNP_P4_21338_19016367	NC_021161.1	Ca_kabuli_chr02	19016367	TT	AA	1946754946
SNP_P4_21339_19016382	NC_021161.1	Ca_kabuli_chr02	19016382	CC	TT	1946754948
SNP_P4_21340_19016562	NC_021161.1	Ca_kabuli_chr02	19016562	AA	CC	1946754950
SNP_P4_21341_19016599	NC_021161.1	Ca_kabuli_chr02	19016599	CC	AA	1946754952
SNP_P4_21342_19021810	NC_021161.1	Ca_kabuli_chr02	19021810	TT	CC	1946754954
SNP_P4_21343_19022079	NC_021161.1	Ca_kabuli_chr02	19022079	TT	CC	1946754956
SNP_P4_21344_19022081	NC_021161.1	Ca_kabuli_chr02	19022081	AA	GG	1946754958
SNP_P4_21345_19022099	NC_021161.1	Ca_kabuli_chr02	19022099	CC	TT	1946754960

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_21347_19022723	NC_021161.1	Ca_kabuli_chr02	19022723	AA	TT	1946754964
SNP_P4_21348_19025596	NC_021161.1	Ca_kabuli_chr02	19025596	GG	TT	1946754966
SNP_P4_21349_19026318	NC_021161.1	Ca_kabuli_chr02	19026318	CC	TT	1946754968
SNP_P4_21350_19026662	NC_021161.1	Ca_kabuli_chr02	19026662	TT	CC	1946754970
SNP_P4_21351_19026665	NC_021161.1	Ca_kabuli_chr02	19026665	AA	TT	1946754972
SNP_P4_21352_19026700	NC_021161.1	Ca_kabuli_chr02	19026700	TT	CC	1946754974
SNP_P4_21353_19053118	NC_021161.1	Ca_kabuli_chr02	19053118	AA	GG	1946754976
SNP_P4_21354_19081675	NC_021161.1	Ca_kabuli_chr02	19081675	GG	AA	1946754978
SNP_P4_21355_19081676	NC_021161.1	Ca_kabuli_chr02	19081676	TT	CC	1946754980
SNP_P4_21356_19081687	NC_021161.1	Ca_kabuli_chr02	19081687	AA	GG	1946754982
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SNP_P4_21358_19097388	NC_021161.1	Ca_kabuli_chr02	19097388	TT	GG	1946754986
SNP_P4_21359_19101582	NC_021161.1	Ca_kabuli_chr02	19101582	AA	CC	1946754988
SNP_P4_21360_19101914	NC_021161.1	Ca_kabuli_chr02	19101914	TT	GG	1946754990
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SNP_P4_21362_19102149	NC_021161.1	Ca_kabuli_chr02	19102149	TT	AA	1946754993
SNP_P4_21363_19102452	NC_021161.1	Ca_kabuli_chr02	19102452	TT	GG	1946754995
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SNP_P4_21366_19131913	NC_021161.1	Ca_kabuli_chr02	19131913	AA	CC	1946755001
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SNP_P4_21369_19134629	NC_021161.1	Ca_kabuli_chr02	19134629	GG	AA	1946755005
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SNP_P4_21372_19134875	NC_021161.1	Ca_kabuli_chr02	19134875	AA	CC	1946755011
SNP_P4_21373_19136705	NC_021161.1	Ca_kabuli_chr02	19136705	AA	TT	1946755013
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SNP_P4_21375_19139071	NC_021161.1	Ca_kabuli_chr02	19139071	TT	CC	1946755017
SNP_P4_21376_19139107	NC_021161.1	Ca_kabuli_chr02	19139107	TT	CC	1946755019
SNP_P4_21377_19139815	NC_021161.1	Ca_kabuli_chr02	19139815	GG	AA	1946755021
SNP_P4_21378_19164413	NC_021161.1	Ca_kabuli_chr02	19164413	TT	AA	1946755022
SNP_P4_21379_19164629	NC_021161.1	Ca_kabuli_chr02	19164629	AA	GG	1946755025
SNP_P4_21380_19180056	NC_021161.1	Ca_kabuli_chr02	19180056	TT	GG	1946755027
SNP_P4_21381_19180136	NC_021161.1	Ca_kabuli_chr02	19180136	TT	AA	1946755029
SNP_P4_21382_19187193	NC_021161.1	Ca_kabuli_chr02	19187193	GG	AA	1946755031
SNP_P4_21383_19192840	NC_021161.1	Ca_kabuli_chr02	19192840	GG	AA	1946755032
SNP_P4_21385_19194520	NC_021161.1	Ca_kabuli_chr02	19194520	CC	TT	1946755034
SNP_P4_21386_19198280	NC_021161.1	Ca_kabuli_chr02	19198280	AA	GG	1946755036
SNP_P4_21387_19216133	NC_021161.1	Ca_kabuli_chr02	19216133	TT	AA	1946755038
SNP_P4_21388_19216149	NC_021161.1	Ca_kabuli_chr02	19216149	GG	AA	1946755040
SNP_P4_21389_19218990	NC_021161.1	Ca_kabuli_chr02	19218990	CC	AA	1946755042

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_21392_19219073	NC_021161.1	Ca_kabuli_chr02	19219073	GG	AA	1946755046
SNP_P4_21393_19219080	NC_021161.1	Ca_kabuli_chr02	19219080	GG	TT	1946755048
SNP_P4_21394_19219139	NC_021161.1	Ca_kabuli_chr02	19219139	TT	CC	1946755051
SNP_P4_21395_19236895	NC_021161.1	Ca_kabuli_chr02	19236895	GG	CC	1946755053
SNP_P4_21396_19250998	NC_021161.1	Ca_kabuli_chr02	19250998	AA	GG	1946755055
SNP_P4_21397_19251509	NC_021161.1	Ca_kabuli_chr02	19251509	TT	AA	1946755057
SNP_P4_21398_19251538	NC_021161.1	Ca_kabuli_chr02	19251538	AA	GG	1946755059
SNP_P4_21399_19251940	NC_021161.1	Ca_kabuli_chr02	19251940	GG	AA	1946755061
SNP_P4_21400_19261293	NC_021161.1	Ca_kabuli_chr02	19261293	TT	AA	1946755063
SNP_P4_21401_19281105	NC_021161.1	Ca_kabuli_chr02	19281105	CC	AA	1946755065
SNP_P4_21402_19281257	NC_021161.1	Ca_kabuli_chr02	19281257	AA	CC	1946755067
SNP_P4_21403_19283935	NC_021161.1	Ca_kabuli_chr02	19283935	AA	TT	1946755070
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SNP_P4_21405_19307484	NC_021161.1	Ca_kabuli_chr02	19307484	CC	TT	1946755074
SNP_P4_21406_19312496	NC_021161.1	Ca_kabuli_chr02	19312496	AA	TT	1946755076
SNP_P4_21407_19314605	NC_021161.1	Ca_kabuli_chr02	19314605	TT	AA	1946755078
SNP_P4_21408_19314681	NC_021161.1	Ca_kabuli_chr02	19314681	TT	GG	1946755080
SNP_P4_21409_19326511	NC_021161.1	Ca_kabuli_chr02	19326511	CC	TT	1946755082
SNP_P4_21410_19326528	NC_021161.1	Ca_kabuli_chr02	19326528	CC	AA	1946755084
SNP_P4_21411_19326624	NC_021161.1	Ca_kabuli_chr02	19326624	TT	CC	1946755086
SNP_P4_21412_19327297	NC_021161.1	Ca_kabuli_chr02	19327297	GG	AA	1946755088
SNP_P4_21413_19328010	NC_021161.1	Ca_kabuli_chr02	19328010	CC	TT	1946755090
SNP_P4_21414_19363544	NC_021161.1	Ca_kabuli_chr02	19363544	CC	TT	1946755092
SNP_P4_21417_19395418	NC_021161.1	Ca_kabuli_chr02	19395418	GG	AA	1946755094
SNP_P4_21419_19447731	NC_021161.1	Ca_kabuli_chr02	19447731	CC	AA	1946755096
SNP_P4_21420_19461104	NC_021161.1	Ca_kabuli_chr02	19461104	AA	TT	1946755098
SNP_P4_21421_19461143	NC_021161.1	Ca_kabuli_chr02	19461143	CC	TT	1946755100
SNP_P4_21422_19461146	NC_021161.1	Ca_kabuli_chr02	19461146	TT	GG	1946755102
SNP_P4_21423_19461205	NC_021161.1	Ca_kabuli_chr02	19461205	CC	TT	1946755104
SNP_P4_21424_19461208	NC_021161.1	Ca_kabuli_chr02	19461208	TT	GG	1946755105
SNP_P4_21425_19477993	NC_021161.1	Ca_kabuli_chr02	19477993	TT	AA	1946755108
SNP_P4_21426_19483164	NC_021161.1	Ca_kabuli_chr02	19483164	CC	GG	1946755110
SNP_P4_21427_19500858	NC_021161.1	Ca_kabuli_chr02	19500858	CC	GG	1946755112
SNP_P4_21428_19501138	NC_021161.1	Ca_kabuli_chr02	19501138	GG	AA	1946755114
SNP_P4_21429_19501220	NC_021161.1	Ca_kabuli_chr02	19501220	CC	TT	1946755116
SNP_P4_21430_19501270	NC_021161.1	Ca_kabuli_chr02	19501270	AA	CC	1946755118
SNP_P4_21431_19501354	NC_021161.1	Ca_kabuli_chr02	19501354	GG	AA	1946755120
SNP_P4_21432_19501464	NC_021161.1	Ca_kabuli_chr02	19501464	GG	TT	1946755122
SNP_P4_21433_19501669	NC_021161.1	Ca_kabuli_chr02	19501669	TT	AA	1946755124
SNP_P4_21434_19501682	NC_021161.1	Ca_kabuli_chr02	19501682	TT	AA	1946755126
SNP_P4_21435_19513210	NC_021161.1	Ca_kabuli_chr02	19513210	AA	GG	1946755127

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_21436_19514480	NC_021161.1	Ca_kabuli_chr02	19514480	CC	TT	1946755129
SNP_P4_21437_19514494	NC_021161.1	Ca_kabuli_chr02	19514494	TT	AA	1946755131
SNP_P4_21438_19514506	NC_021161.1	Ca_kabuli_chr02	19514506	TT	CC	1946755133
SNP_P4_21439_19516489	NC_021161.1	Ca_kabuli_chr02	19516489	TT	AA	1946755135
SNP_P4_21440_19516490	NC_021161.1	Ca_kabuli_chr02	19516490	AA	TT	1946755137
SNP_P4_21441_19516514	NC_021161.1	Ca_kabuli_chr02	19516514	CC	TT	1946755139
SNP_P4_21442_19516537	NC_021161.1	Ca_kabuli_chr02	19516537	TT	CC	1946755141
SNP_P4_21443_19516560	NC_021161.1	Ca_kabuli_chr02	19516560	GG	AA	1946755143
SNP_P4_21444_19516618	NC_021161.1	Ca_kabuli_chr02	19516618	GG	AA	1946755145
SNP_P4_21445_19516675	NC_021161.1	Ca_kabuli_chr02	19516675	AA	TT	1946755147
SNP_P4_21446_19516714	NC_021161.1	Ca_kabuli_chr02	19516714	AA	GG	1946755149
SNP_P4_21447_19516732	NC_021161.1	Ca_kabuli_chr02	19516732	AA	TT	1946755151
SNP_P4_21448_19516741	NC_021161.1	Ca_kabuli_chr02	19516741	CC	AA	1946755153
SNP_P4_21449_19516742	NC_021161.1	Ca_kabuli_chr02	19516742	AA	TT	1946755155
SNP_P4_21450_19516834	NC_021161.1	Ca_kabuli_chr02	19516834	CC	TT	1946755157
SNP_P4_21451_19517140	NC_021161.1	Ca_kabuli_chr02	19517140	GG	AA	1946755159
SNP_P4_21452_19517421	NC_021161.1	Ca_kabuli_chr02	19517421	CC	AA	1946755161
SNP_P4_21453_19517439	NC_021161.1	Ca_kabuli_chr02	19517439	AA	TT	1946755163
SNP_P4_21454_19518063	NC_021161.1	Ca_kabuli_chr02	19518063	AA	GG	1946755165
SNP_P4_21455_19518064	NC_021161.1	Ca_kabuli_chr02	19518064	TT	AA	1946755166
SNP_P4_21456_19528664	NC_021161.1	Ca_kabuli_chr02	19528664	GG	AA	1946755169
SNP_P4_21457_19563519	NC_021161.1	Ca_kabuli_chr02	19563519	TT	GG	1946755170
SNP_P4_21458_19570572	NC_021161.1	Ca_kabuli_chr02	19570572	AA	CC	1946755172
SNP_P4_21459_19571111	NC_021161.1	Ca_kabuli_chr02	19571111	CC	TT	1946755174
SNP_P4_21461_19590122	NC_021161.1	Ca_kabuli_chr02	19590122	TT	GG	1946755176
SNP_P4_21462_19590168	NC_021161.1	Ca_kabuli_chr02	19590168	TT	CC	1946755178
SNP_P4_21463_19590210	NC_021161.1	Ca_kabuli_chr02	19590210	TT	CC	1946755180
SNP_P4_21464_19590307	NC_021161.1	Ca_kabuli_chr02	19590307	AA	GG	1946755182
SNP_P4_21465_19590522	NC_021161.1	Ca_kabuli_chr02	19590522	GG	CC	1946755184
SNP_P4_21466_19590573	NC_021161.1	Ca_kabuli_chr02	19590573	CC	TT	1946755186
SNP_P4_21467_19590627	NC_021161.1	Ca_kabuli_chr02	19590627	TT	GG	1946755188
SNP_P4_21468_19590633	NC_021161.1	Ca_kabuli_chr02	19590633	CC	TT	1946755191
SNP_P4_21469_19602666	NC_021161.1	Ca_kabuli_chr02	19602666	AA	GG	1946755193
SNP_P4_21470_19602719	NC_021161.1	Ca_kabuli_chr02	19602719	TT	CC	1946755195
SNP_P4_21471_19602728	NC_021161.1	Ca_kabuli_chr02	19602728	CC	GG	1946755197
SNP_P4_21472_19602794	NC_021161.1	Ca_kabuli_chr02	19602794	CC	TT	1946755198
SNP_P4_21473_19602798	NC_021161.1	Ca_kabuli_chr02	19602798	TT	GG	1946755200
SNP_P4_21474_19602813	NC_021161.1	Ca_kabuli_chr02	19602813	GG	TT	1946755202
SNP_P4_21475_19603085	NC_021161.1	Ca_kabuli_chr02	19603085	GG	AA	1946755204
SNP_P4_21476_19603097	NC_021161.1	Ca_kabuli_chr02	19603097	GG	AA	1946755206
SNP_P4_21478_19603219	NC_021161.1	Ca_kabuli_chr02	19603219	AA	GG	1946755208
SNP_P4_21479_19603231	NC_021161.1	Ca_kabuli_chr02	19603231	TT	CC	1946755210

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_21480_19615414	NC_021161.1	Ca_kabuli_chr02	19615414	AA	TT	1946755212
SNP_P4_21481_19615434	NC_021161.1	Ca_kabuli_chr02	19615434	CC	AA	1946755213
SNP_P4_21482_19616952	NC_021161.1	Ca_kabuli_chr02	19616952	TT	CC	1946755215
SNP_P4_21484_19617026	NC_021161.1	Ca_kabuli_chr02	19617026	AA	GG	1946755217
SNP_P4_21485_19617047	NC_021161.1	Ca_kabuli_chr02	19617047	AA	GG	1946755219
SNP_P4_21486_19617048	NC_021161.1	Ca_kabuli_chr02	19617048	CC	TT	1946755221
SNP_P4_21487_19617056	NC_021161.1	Ca_kabuli_chr02	19617056	TT	AA	1946755223
SNP_P4_21488_19617093	NC_021161.1	Ca_kabuli_chr02	19617093	AA	GG	1946755225
SNP_P4_21489_19617167	NC_021161.1	Ca_kabuli_chr02	19617167	TT	CC	1946755227
SNP_P4_21490_19617169	NC_021161.1	Ca_kabuli_chr02	19617169	AA	GG	1946755229
SNP_P4_21491_19617390	NC_021161.1	Ca_kabuli_chr02	19617390	AA	GG	1946755231
SNP_P4_21492_19617438	NC_021161.1	Ca_kabuli_chr02	19617438	TT	AA	1946755233
SNP_P4_21493_19620639	NC_021161.1	Ca_kabuli_chr02	19620639	TT	GG	1946755235
SNP_P4_21494_19620942	NC_021161.1	Ca_kabuli_chr02	19620942	TT	GG	1946755237
SNP_P4_21495_19642329	NC_021161.1	Ca_kabuli_chr02	19642329	TT	CC	1946755239
SNP_P4_21496_19646159	NC_021161.1	Ca_kabuli_chr02	19646159	TT	AA	1946755241
SNP_P4_21497_19649679	NC_021161.1	Ca_kabuli_chr02	19649679	CC	AA	1946755243
SNP_P4_21498_19649822	NC_021161.1	Ca_kabuli_chr02	19649822	GG	AA	1946755245
SNP_P4_21499_19650150	NC_021161.1	Ca_kabuli_chr02	19650150	CC	TT	1946755247
SNP_P4_21500_19650154	NC_021161.1	Ca_kabuli_chr02	19650154	GG	AA	1946755249
SNP_P4_21501_19650171	NC_021161.1	Ca_kabuli_chr02	19650171	AA	TT	1946755251
SNP_P4_21502_19650204	NC_021161.1	Ca_kabuli_chr02	19650204	AA	GG	1946755253
SNP_P4_21503_19650221	NC_021161.1	Ca_kabuli_chr02	19650221	AA	GG	1946755255
SNP_P4_21504_19650482	NC_021161.1	Ca_kabuli_chr02	19650482	GG	TT	1946755257
SNP_P4_21505_19650564	NC_021161.1	Ca_kabuli_chr02	19650564	GG	AA	1946755259
SNP_P4_21506_19652524	NC_021161.1	Ca_kabuli_chr02	19652524	CC	TT	1946755261
SNP_P4_21507_19652573	NC_021161.1	Ca_kabuli_chr02	19652573	GG	AA	1946755263
SNP_P4_21508_19652935	NC_021161.1	Ca_kabuli_chr02	19652935	TT	CC	1946755265
SNP_P4_21509_19652959	NC_021161.1	Ca_kabuli_chr02	19652959	GG	AA	1946755266
SNP_P4_21510_19653215	NC_021161.1	Ca_kabuli_chr02	19653215	GG	AA	1946755268
SNP_P4_21511_19668883	NC_021161.1	Ca_kabuli_chr02	19668883	AA	GG	1946755270
SNP_P4_21512_19668884	NC_021161.1	Ca_kabuli_chr02	19668884	TT	CC	1946755272
SNP_P4_21513_19668885	NC_021161.1	Ca_kabuli_chr02	19668885	TT	GG	1946755274
SNP_P4_21514_19668886	NC_021161.1	Ca_kabuli_chr02	19668886	GG	AA	1946755276
SNP_P4_21515_19668889	NC_021161.1	Ca_kabuli_chr02	19668889	TT	CC	1946755278
SNP_P4_21516_19705581	NC_021161.1	Ca_kabuli_chr02	19705581	GG	AA	1946755280
SNP_P4_21517_19705604	NC_021161.1	Ca_kabuli_chr02	19705604	AA	TT	1946755282
SNP_P4_21519_19705800	NC_021161.1	Ca_kabuli_chr02	19705800	GG	AA	1946755284
SNP_P4_21520_19706059	NC_021161.1	Ca_kabuli_chr02	19706059	CC	TT	1946755286
SNP_P4_21521_19706097	NC_021161.1	Ca_kabuli_chr02	19706097	CC	TT	1946755288
SNP_P4_21523_19728633	NC_021161.1	Ca_kabuli_chr02	19728633	GG	AA	1946755290
SNP_P4_21524_19728776	NC_021161.1	Ca_kabuli_chr02	19728776	AA	GG	1946755292

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_21525_19761429	NC_021161.1	Ca_kabuli_chr02	19761429	TT	CC	1946755294
SNP_P4_21526_19767952	NC_021161.1	Ca_kabuli_chr02	19767952	AA	GG	1946755296
SNP_P4_21527_19767986	NC_021161.1	Ca_kabuli_chr02	19767986	AA	GG	1946755298
SNP_P4_21528_19768096	NC_021161.1	Ca_kabuli_chr02	19768096	TT	AA	1946755300
SNP_P4_21529_19768097	NC_021161.1	Ca_kabuli_chr02	19768097	AA	GG	1946755302
SNP_P4_21530_19768142	NC_021161.1	Ca_kabuli_chr02	19768142	CC	TT	1946755304
SNP_P4_21531_19768158	NC_021161.1	Ca_kabuli_chr02	19768158	CC	TT	1946755306
SNP_P4_21532_19768159	NC_021161.1	Ca_kabuli_chr02	19768159	AA	GG	1946755308
SNP_P4_21533_19768217	NC_021161.1	Ca_kabuli_chr02	19768217	AA	GG	1946755310
SNP_P4_21534_19768394	NC_021161.1	Ca_kabuli_chr02	19768394	AA	GG	1946755312
SNP_P4_21535_19769243	NC_021161.1	Ca_kabuli_chr02	19769243	AA	GG	1946755314
SNP_P4_21536_19769347	NC_021161.1	Ca_kabuli_chr02	19769347	CC	TT	1946755316
SNP_P4_21537_19769366	NC_021161.1	Ca_kabuli_chr02	19769366	GG	TT	1946755318
SNP_P4_21538_19769453	NC_021161.1	Ca_kabuli_chr02	19769453	GG	AA	1946755320
SNP_P4_21539_19769456	NC_021161.1	Ca_kabuli_chr02	19769456	CC	TT	1946755322
SNP_P4_21540_19769528	NC_021161.1	Ca_kabuli_chr02	19769528	GG	AA	1946755324
SNP_P4_21541_19769540	NC_021161.1	Ca_kabuli_chr02	19769540	AA	CC	1946755325
SNP_P4_21542_19769711	NC_021161.1	Ca_kabuli_chr02	19769711	CC	TT	1946755327
SNP_P4_21544_19769771	NC_021161.1	Ca_kabuli_chr02	19769771	GG	AA	1946755329
SNP_P4_21545_19769792	NC_021161.1	Ca_kabuli_chr02	19769792	GG	AA	1946755331
SNP_P4_21546_19770368	NC_021161.1	Ca_kabuli_chr02	19770368	GG	CC	1946755333
SNP_P4_21547_19770374	NC_021161.1	Ca_kabuli_chr02	19770374	CC	TT	1946755335
SNP_P4_21548_19772423	NC_021161.1	Ca_kabuli_chr02	19772423	TT	CC	1946755337
SNP_P4_21549_19772482	NC_021161.1	Ca_kabuli_chr02	19772482	CC	TT	1946755339
SNP_P4_21550_19772674	NC_021161.1	Ca_kabuli_chr02	19772674	TT	GG	1946755341
SNP_P4_21551_19772684	NC_021161.1	Ca_kabuli_chr02	19772684	TT	CC	1946755343
SNP_P4_21552_19772773	NC_021161.1	Ca_kabuli_chr02	19772773	TT	GG	1946755345
SNP_P4_21553_19772802	NC_021161.1	Ca_kabuli_chr02	19772802	AA	GG	1946755346
SNP_P4_21554_19772990	NC_021161.1	Ca_kabuli_chr02	19772990	AA	GG	1946755348
SNP_P4_21555_19773045	NC_021161.1	Ca_kabuli_chr02	19773045	TT	AA	1946755350
SNP_P4_21556_19773050	NC_021161.1	Ca_kabuli_chr02	19773050	GG	AA	1946755352
SNP_P4_21557_19777050	NC_021161.1	Ca_kabuli_chr02	19777050	AA	TT	1946755354
SNP_P4_21558_19777054	NC_021161.1	Ca_kabuli_chr02	19777054	GG	AA	1946755356
SNP_P4_21559_19777059	NC_021161.1	Ca_kabuli_chr02	19777059	CC	AA	1946755358
SNP_P4_21560_19779047	NC_021161.1	Ca_kabuli_chr02	19779047	TT	AA	1946755360
SNP_P4_21561_19786029	NC_021161.1	Ca_kabuli_chr02	19786029	AA	CC	1946755363
SNP_P4_21562_19786066	NC_021161.1	Ca_kabuli_chr02	19786066	GG	AA	1946755365
SNP_P4_21563_19786067	NC_021161.1	Ca_kabuli_chr02	19786067	GG	AA	1946755366
SNP_P4_21564_19786073	NC_021161.1	Ca_kabuli_chr02	19786073	GG	AA	1946755369
SNP_P4_21565_19791018	NC_021161.1	Ca_kabuli_chr02	19791018	GG	AA	1946755371
SNP_P4_21566_19791169	NC_021161.1	Ca_kabuli_chr02	19791169	TT	CC	1946755373
SNP_P4_21567_19791497	NC_021161.1	Ca_kabuli_chr02	19791497	TT	GG	1946755375

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_21569_19791817	NC_021161.1	Ca_kabuli_chr02	19791817	TT	GG	1946755377
SNP_P4_21570_19800806	NC_021161.1	Ca_kabuli_chr02	19800806	AA	GG	1946755379
SNP_P4_21571_19808755	NC_021161.1	Ca_kabuli_chr02	19808755	GG	AA	1946755381
SNP_P4_21572_19808756	NC_021161.1	Ca_kabuli_chr02	19808756	GG	AA	1946755383
SNP_P4_21573_19811690	NC_021161.1	Ca_kabuli_chr02	19811690	AA	TT	1946755385
SNP_P4_21574_19824392	NC_021161.1	Ca_kabuli_chr02	19824392	TT	AA	1946755387
SNP_P4_21575_19824469	NC_021161.1	Ca_kabuli_chr02	19824469	AA	TT	1946755389
SNP_P4_21576_19824518	NC_021161.1	Ca_kabuli_chr02	19824518	TT	GG	1946755392
SNP_P4_21577_19825207	NC_021161.1	Ca_kabuli_chr02	19825207	TT	GG	1946755394
SNP_P4_21578_19881320	NC_021161.1	Ca_kabuli_chr02	19881320	GG	AA	1946755396
SNP_P4_21579_19881322	NC_021161.1	Ca_kabuli_chr02	19881322	TT	AA	1946755397
SNP_P4_21580_19881323	NC_021161.1	Ca_kabuli_chr02	19881323	CC	AA	1946755399
SNP_P4_21581_19881330	NC_021161.1	Ca_kabuli_chr02	19881330	TT	GG	1946755401
SNP_P4_21582_19894866	NC_021161.1	Ca_kabuli_chr02	19894866	CC	TT	1946755403
SNP_P4_21583_19901438	NC_021161.1	Ca_kabuli_chr02	19901438	TT	CC	1946755405
SNP_P4_21584_19904741	NC_021161.1	Ca_kabuli_chr02	19904741	AA	GG	1946755407
SNP_P4_21585_19904783	NC_021161.1	Ca_kabuli_chr02	19904783	CC	TT	1946755409
SNP_P4_21586_19904813	NC_021161.1	Ca_kabuli_chr02	19904813	GG	AA	1946755410
SNP_P4_21587_19915027	NC_021161.1	Ca_kabuli_chr02	19915027	GG	AA	1946755411
SNP_P4_21588_19927081	NC_021161.1	Ca_kabuli_chr02	19927081	TT	CC	1946755412
SNP_P4_21589_19927140	NC_021161.1	Ca_kabuli_chr02	19927140	AA	GG	1946755413
SNP_P4_21590_19927144	NC_021161.1	Ca_kabuli_chr02	19927144	TT	AA	1946755414
SNP_P4_21591_19927222	NC_021161.1	Ca_kabuli_chr02	19927222	AA	CC	1946755416
SNP_P4_21592_19927232	NC_021161.1	Ca_kabuli_chr02	19927232	CC	TT	1946755418
SNP_P4_21593_19927263	NC_021161.1	Ca_kabuli_chr02	19927263	CC	TT	1946755420
SNP_P4_21594_19927340	NC_021161.1	Ca_kabuli_chr02	19927340	CC	GG	1946755422
SNP_P4_21595_19927356	NC_021161.1	Ca_kabuli_chr02	19927356	AA	GG	1946755423
SNP_P4_21596_19927533	NC_021161.1	Ca_kabuli_chr02	19927533	CC	TT	1946755425
SNP_P4_21597_19927534	NC_021161.1	Ca_kabuli_chr02	19927534	TT	CC	1946755427
SNP_P4_21598_19927547	NC_021161.1	Ca_kabuli_chr02	19927547	AA	CC	1946755429
SNP_P4_21599_19927557	NC_021161.1	Ca_kabuli_chr02	19927557	CC	TT	1946755431
SNP_P4_21600_19931433	NC_021161.1	Ca_kabuli_chr02	19931433	TT	AA	1946755433
SNP_P4_21601_19931473	NC_021161.1	Ca_kabuli_chr02	19931473	AA	GG	1946755435
SNP_P4_21602_19931495	NC_021161.1	Ca_kabuli_chr02	19931495	CC	TT	1946755437
SNP_P4_21603_19931532	NC_021161.1	Ca_kabuli_chr02	19931532	AA	GG	1946755439
SNP_P4_21604_19931579	NC_021161.1	Ca_kabuli_chr02	19931579	AA	GG	1946755441
SNP_P4_21605_19931593	NC_021161.1	Ca_kabuli_chr02	19931593	CC	TT	1946755443
SNP_P4_21606_19931612	NC_021161.1	Ca_kabuli_chr02	19931612	GG	AA	1946755445
SNP_P4_21607_19966924	NC_021161.1	Ca_kabuli_chr02	19966924	TT	CC	1946755447
SNP_P4_21608_19966954	NC_021161.1	Ca_kabuli_chr02	19966954	CC	TT	1946755449
SNP_P4_21609_19966961	NC_021161.1	Ca_kabuli_chr02	19966961	GG	TT	1946755451
SNP_P4_21610_19971784	NC_021161.1	Ca_kabuli_chr02	19971784	CC	TT	1946755453

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_21611_19986452	NC_021161.1	Ca_kabuli_chr02	19986452	TT	CC	1946755455
SNP_P4_21612_20069025	NC_021161.1	Ca_kabuli_chr02	20069025	TT	AA	1946755457
SNP_P4_21613_20069026	NC_021161.1	Ca_kabuli_chr02	20069026	AA	GG	1946755460
SNP_P4_21614_20069542	NC_021161.1	Ca_kabuli_chr02	20069542	AA	CC	1946755462
SNP_P4_21615_20069635	NC_021161.1	Ca_kabuli_chr02	20069635	AA	GG	1946755464
SNP_P4_21616_20069645	NC_021161.1	Ca_kabuli_chr02	20069645	GG	AA	1946755466
SNP_P4_21617_20074904	NC_021161.1	Ca_kabuli_chr02	20074904	GG	AA	1946755469
SNP_P4_21618_20074944	NC_021161.1	Ca_kabuli_chr02	20074944	CC	TT	1946755472
SNP_P4_21619_20075016	NC_021161.1	Ca_kabuli_chr02	20075016	TT	CC	1946755474
SNP_P4_21620_20077433	NC_021161.1	Ca_kabuli_chr02	20077433	GG	AA	1946755476
SNP_P4_21621_20077477	NC_021161.1	Ca_kabuli_chr02	20077477	TT	CC	1946755478
SNP_P4_21622_20077484	NC_021161.1	Ca_kabuli_chr02	20077484	GG	TT	1946755480
SNP_P4_21623_20077515	NC_021161.1	Ca_kabuli_chr02	20077515	AA	GG	1946755482
SNP_P4_21624_20077531	NC_021161.1	Ca_kabuli_chr02	20077531	TT	CC	1946755484
SNP_P4_21625_20078110	NC_021161.1	Ca_kabuli_chr02	20078110	CC	AA	1946755486
SNP_P4_21626_20078380	NC_021161.1	Ca_kabuli_chr02	20078380	AA	GG	1946755488
SNP_P4_21627_20078391	NC_021161.1	Ca_kabuli_chr02	20078391	CC	AA	1946755490
SNP_P4_21628_20078394	NC_021161.1	Ca_kabuli_chr02	20078394	GG	AA	1946755492
SNP_P4_21629_20078439	NC_021161.1	Ca_kabuli_chr02	20078439	AA	TT	1946755494
SNP_P4_21630_20084229	NC_021161.1	Ca_kabuli_chr02	20084229	TT	AA	1946755496
SNP_P4_21631_20085836	NC_021161.1	Ca_kabuli_chr02	20085836	GG	AA	1946755498
SNP_P4_21632_20085840	NC_021161.1	Ca_kabuli_chr02	20085840	AA	GG	1946755500
SNP_P4_21633_20087699	NC_021161.1	Ca_kabuli_chr02	20087699	AA	GG	1946755502
SNP_P4_21634_20087715	NC_021161.1	Ca_kabuli_chr02	20087715	AA	GG	1946755504
SNP_P4_21635_20087733	NC_021161.1	Ca_kabuli_chr02	20087733	TT	CC	1946755506
SNP_P4_21636_20088108	NC_021161.1	Ca_kabuli_chr02	20088108	AA	GG	1946755508
SNP_P4_21637_20088146	NC_021161.1	Ca_kabuli_chr02	20088146	TT	CC	1946755510
SNP_P4_21638_20088176	NC_021161.1	Ca_kabuli_chr02	20088176	CC	AA	1946755512
SNP_P4_21639_20088193	NC_021161.1	Ca_kabuli_chr02	20088193	AA	GG	1946755514
SNP_P4_21640_20088535	NC_021161.1	Ca_kabuli_chr02	20088535	GG	AA	1946755516
SNP_P4_21641_20090667	NC_021161.1	Ca_kabuli_chr02	20090667	TT	CC	1946755518
SNP_P4_21642_20105850	NC_021161.1	Ca_kabuli_chr02	20105850	TT	CC	1946755520
SNP_P4_21643_20144409	NC_021161.1	Ca_kabuli_chr02	20144409	CC	GG	1946755522
SNP_P4_21644_20150952	NC_021161.1	Ca_kabuli_chr02	20150952	GG	AA	1946755524
SNP_P4_21645_20151212	NC_021161.1	Ca_kabuli_chr02	20151212	TT	AA	1946755526
SNP_P4_21646_20151359	NC_021161.1	Ca_kabuli_chr02	20151359	GG	AA	1946755527
SNP_P4_21647_20151378	NC_021161.1	Ca_kabuli_chr02	20151378	TT	CC	1946755529
SNP_P4_21648_20151693	NC_021161.1	Ca_kabuli_chr02	20151693	GG	CC	1946755531
SNP_P4_21649_20151753	NC_021161.1	Ca_kabuli_chr02	20151753	GG	AA	1946755533
SNP_P4_21650_20151773	NC_021161.1	Ca_kabuli_chr02	20151773	CC	TT	1946755535
SNP_P4_21651_20151779	NC_021161.1	Ca_kabuli_chr02	20151779	GG	AA	1946755537
SNP_P4_21652_20151811	NC_021161.1	Ca_kabuli_chr02	20151811	TT	AA	1946755539

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_21654_20151865	NC_021161.1	Ca_kabuli_chr02	20151865	GG	AA	1946755541
SNP_P4_21655_20151878	NC_021161.1	Ca_kabuli_chr02	20151878	AA	TT	1946755543
SNP_P4_21656_20151988	NC_021161.1	Ca_kabuli_chr02	20151988	TT	CC	1946755545
SNP_P4_21657_20152040	NC_021161.1	Ca_kabuli_chr02	20152040	AA	CC	1946755547
SNP_P4_21658_20152103	NC_021161.1	Ca_kabuli_chr02	20152103	CC	GG	1946755549
SNP_P4_21659_20152532	NC_021161.1	Ca_kabuli_chr02	20152532	GG	TT	1946755551
SNP_P4_21660_20153803	NC_021161.1	Ca_kabuli_chr02	20153803	CC	TT	1946755553
SNP_P4_21661_20155366	NC_021161.1	Ca_kabuli_chr02	20155366	AA	TT	1946755555
SNP_P4_21662_20169428	NC_021161.1	Ca_kabuli_chr02	20169428	AA	TT	1946755557
SNP_P4_21663_20171788	NC_021161.1	Ca_kabuli_chr02	20171788	AA	TT	1946755559
SNP_P4_21664_20171798	NC_021161.1	Ca_kabuli_chr02	20171798	TT	AA	1946755564
SNP_P4_21666_20171813	NC_021161.1	Ca_kabuli_chr02	20171813	TT	AA	1946755570
SNP_P4_21668_20176382	NC_021161.1	Ca_kabuli_chr02	20176382	GG	AA	1946755576
SNP_P4_21669_20177743	NC_021161.1	Ca_kabuli_chr02	20177743	AA	GG	1946755582
SNP_P4_21670_20177855	NC_021161.1	Ca_kabuli_chr02	20177855	TT	GG	1946755589
SNP_P4_21671_20177903	NC_021161.1	Ca_kabuli_chr02	20177903	CC	TT	1946755593
SNP_P4_21672_20178169	NC_021161.1	Ca_kabuli_chr02	20178169	GG	CC	1946755596
SNP_P4_21673_20191213	NC_021161.1	Ca_kabuli_chr02	20191213	CC	TT	1946755600
SNP_P4_21674_20191447	NC_021161.1	Ca_kabuli_chr02	20191447	AA	TT	1946755602
SNP_P4_21675_20191468	NC_021161.1	Ca_kabuli_chr02	20191468	TT	CC	1946755611
SNP_P4_21676_20191561	NC_021161.1	Ca_kabuli_chr02	20191561	TT	CC	1946755613
SNP_P4_21677_20191588	NC_021161.1	Ca_kabuli_chr02	20191588	CC	TT	1946755615
SNP_P4_21678_20191667	NC_021161.1	Ca_kabuli_chr02	20191667	AA	CC	1946755623
SNP_P4_21679_20191702	NC_021161.1	Ca_kabuli_chr02	20191702	GG	TT	1946755625
SNP_P4_21680_20191707	NC_021161.1	Ca_kabuli_chr02	20191707	GG	CC	1946755627
SNP_P4_21681_20191716	NC_021161.1	Ca_kabuli_chr02	20191716	AA	GG	1946755635
SNP_P4_21682_20191777	NC_021161.1	Ca_kabuli_chr02	20191777	TT	AA	1946755637
SNP_P4_21683_20191809	NC_021161.1	Ca_kabuli_chr02	20191809	TT	CC	1946755645
SNP_P4_21684_20191903	NC_021161.1	Ca_kabuli_chr02	20191903	AA	TT	1946755648
SNP_P4_21685_20191906	NC_021161.1	Ca_kabuli_chr02	20191906	TT	CC	1946755655
SNP_P4_21686_20191911	NC_021161.1	Ca_kabuli_chr02	20191911	GG	AA	1946755658
SNP_P4_21687_20192040	NC_021161.1	Ca_kabuli_chr02	20192040	GG	AA	1946755660
SNP_P4_21688_20192051	NC_021161.1	Ca_kabuli_chr02	20192051	TT	GG	1946755667
SNP_P4_21689_20192073	NC_021161.1	Ca_kabuli_chr02	20192073	GG	AA	1946755670
SNP_P4_21690_20192087	NC_021161.1	Ca_kabuli_chr02	20192087	CC	TT	1946755679
SNP_P4_21691_20192088	NC_021161.1	Ca_kabuli_chr02	20192088	GG	TT	1946755681
SNP_P4_21692_20192175	NC_021161.1	Ca_kabuli_chr02	20192175	TT	CC	1946755688
SNP_P4_21693_20192176	NC_021161.1	Ca_kabuli_chr02	20192176	TT	CC	1946755691
SNP_P4_21694_20192196	NC_021161.1	Ca_kabuli_chr02	20192196	GG	TT	1946755698
SNP_P4_21695_20192556	NC_021161.1	Ca_kabuli_chr02	20192556	CC	TT	1946755701
SNP_P4_21696_20197084	NC_021161.1	Ca_kabuli_chr02	20197084	CC	AA	1946755704
SNP_P4_21697_20210466	NC_021161.1	Ca_kabuli_chr02	20210466	CC	TT	1946755706

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_21698_20235128	NC_021161.1	Ca_kabuli_chr02	20235128	AA	TT	1946755708
SNP_P4_21699_20235571	NC_021161.1	Ca_kabuli_chr02	20235571	GG	AA	1946755710
SNP_P4_21700_20235584	NC_021161.1	Ca_kabuli_chr02	20235584	TT	CC	1946755712
SNP_P4_21701_20249777	NC_021161.1	Ca_kabuli_chr02	20249777	AA	GG	1946755714
SNP_P4_21702_20307979	NC_021161.1	Ca_kabuli_chr02	20307979	CC	TT	1946755716
SNP_P4_21703_20310779	NC_021161.1	Ca_kabuli_chr02	20310779	AA	TT	1946755718
SNP_P4_21704_20313597	NC_021161.1	Ca_kabuli_chr02	20313597	GG	CC	1946755721
SNP_P4_21705_20321668	NC_021161.1	Ca_kabuli_chr02	20321668	AA	TT	1946755723
SNP_P4_21706_20321800	NC_021161.1	Ca_kabuli_chr02	20321800	GG	AA	1946755725
SNP_P4_21707_20346749	NC_021161.1	Ca_kabuli_chr02	20346749	CC	TT	1946755735
SNP_P4_21709_20353213	NC_021161.1	Ca_kabuli_chr02	20353213	CC	TT	1946755737
SNP_P4_21710_20353217	NC_021161.1	Ca_kabuli_chr02	20353217	TT	AA	1946755739
SNP_P4_21711_20353233	NC_021161.1	Ca_kabuli_chr02	20353233	AA	GG	1946755741
SNP_P4_21712_20353286	NC_021161.1	Ca_kabuli_chr02	20353286	AA	GG	1946755743
SNP_P4_21713_20353565	NC_021161.1	Ca_kabuli_chr02	20353565	CC	GG	1946755745
SNP_P4_21715_20353637	NC_021161.1	Ca_kabuli_chr02	20353637	CC	TT	1946755747
SNP_P4_21716_20353639	NC_021161.1	Ca_kabuli_chr02	20353639	GG	TT	1946755749
SNP_P4_21717_20355723	NC_021161.1	Ca_kabuli_chr02	20355723	AA	GG	1946755751
SNP_P4_21718_20357435	NC_021161.1	Ca_kabuli_chr02	20357435	GG	TT	1946755753
SNP_P4_21719_20417294	NC_021161.1	Ca_kabuli_chr02	20417294	TT	AA	1946755755
SNP_P4_21720_20420818	NC_021161.1	Ca_kabuli_chr02	20420818	TT	CC	1946755757
SNP_P4_21721_20424387	NC_021161.1	Ca_kabuli_chr02	20424387	TT	AA	1946755759
SNP_P4_21722_20424450	NC_021161.1	Ca_kabuli_chr02	20424450	CC	TT	1946755761
SNP_P4_21723_20424875	NC_021161.1	Ca_kabuli_chr02	20424875	AA	GG	1946755763
SNP_P4_21724_20427189	NC_021161.1	Ca_kabuli_chr02	20427189	GG	TT	1946755765
SNP_P4_21726_20448963	NC_021161.1	Ca_kabuli_chr02	20448963	GG	TT	1946755767
SNP_P4_21728_20474881	NC_021161.1	Ca_kabuli_chr02	20474881	CC	GG	1946755769
SNP_P4_21729_20474887	NC_021161.1	Ca_kabuli_chr02	20474887	CC	GG	1946755780
SNP_P4_21730_20475067	NC_021161.1	Ca_kabuli_chr02	20475067	AA	GG	1946755789
SNP_P4_21731_20475172	NC_021161.1	Ca_kabuli_chr02	20475172	AA	CC	1946755795
SNP_P4_21732_20475175	NC_021161.1	Ca_kabuli_chr02	20475175	TT	CC	1946755805
SNP_P4_21733_20475206	NC_021161.1	Ca_kabuli_chr02	20475206	CC	TT	1946755813
SNP_P4_21734_20477126	NC_021161.1	Ca_kabuli_chr02	20477126	CC	TT	1946755818
SNP_P4_21735_20478235	NC_021161.1	Ca_kabuli_chr02	20478235	AA	GG	1946755827
SNP_P4_21736_20479799	NC_021161.1	Ca_kabuli_chr02	20479799	TT	CC	1946755832
SNP_P4_21737_20490402	NC_021161.1	Ca_kabuli_chr02	20490402	AA	GG	1946755839
SNP_P4_21738_20490410	NC_021161.1	Ca_kabuli_chr02	20490410	TT	CC	1946755843
SNP_P4_21739_20490458	NC_021161.1	Ca_kabuli_chr02	20490458	AA	GG	1946755846
SNP_P4_21740_20490587	NC_021161.1	Ca_kabuli_chr02	20490587	AA	GG	1946755848
SNP_P4_21741_20490590	NC_021161.1	Ca_kabuli_chr02	20490590	AA	GG	1946755856
SNP_P4_21742_20490601	NC_021161.1	Ca_kabuli_chr02	20490601	AA	GG	1946755858
SNP_P4_21743_20490794	NC_021161.1	Ca_kabuli_chr02	20490794	CC	TT	1946755867

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_21744_20490963	NC_021161.1	Ca_kabuli_chr02	20490963	AA	TT	1946755869
SNP_P4_21745_20493815	NC_021161.1	Ca_kabuli_chr02	20493815	GG	AA	1946755876
SNP_P4_21746_20518271	NC_021161.1	Ca_kabuli_chr02	20518271	CC	TT	1946755879
SNP_P4_21747_20544421	NC_021161.1	Ca_kabuli_chr02	20544421	TT	AA	1946755887
SNP_P4_21748_20544656	NC_021161.1	Ca_kabuli_chr02	20544656	GG	AA	1946755890
SNP_P4_21749_20563590	NC_021161.1	Ca_kabuli_chr02	20563590	AA	GG	1946755892
SNP_P4_21750_20568619	NC_021161.1	Ca_kabuli_chr02	20568619	GG	TT	1946755901
SNP_P4_21751_20579028	NC_021161.1	Ca_kabuli_chr02	20579028	CC	TT	1946755902
SNP_P4_21752_20579482	NC_021161.1	Ca_kabuli_chr02	20579482	AA	TT	1946755904
SNP_P4_21753_20579513	NC_021161.1	Ca_kabuli_chr02	20579513	TT	GG	1946755909
SNP_P4_21754_20579556	NC_021161.1	Ca_kabuli_chr02	20579556	CC	AA	1946755911
SNP_P4_21755_20579698	NC_021161.1	Ca_kabuli_chr02	20579698	GG	AA	1946755913
SNP_P4_21756_20587506	NC_021161.1	Ca_kabuli_chr02	20587506	CC	TT	1946755915
SNP_P4_21757_20587690	NC_021161.1	Ca_kabuli_chr02	20587690	CC	TT	1946755917
SNP_P4_21758_20587697	NC_021161.1	Ca_kabuli_chr02	20587697	AA	GG	1946755919
SNP_P4_21759_20587704	NC_021161.1	Ca_kabuli_chr02	20587704	AA	CC	1946755921
SNP_P4_21760_20587737	NC_021161.1	Ca_kabuli_chr02	20587737	TT	AA	1946755923
SNP_P4_21761_20587744	NC_021161.1	Ca_kabuli_chr02	20587744	TT	CC	1946755925
SNP_P4_21762_20587746	NC_021161.1	Ca_kabuli_chr02	20587746	AA	TT	1946755927
SNP_P4_21763_20596779	NC_021161.1	Ca_kabuli_chr02	20596779	CC	TT	1946755929
SNP_P4_21764_20596781	NC_021161.1	Ca_kabuli_chr02	20596781	CC	AA	1946755931
SNP_P4_21765_20620733	NC_021161.1	Ca_kabuli_chr02	20620733	CC	GG	1946755933
SNP_P4_21766_20620736	NC_021161.1	Ca_kabuli_chr02	20620736	AA	TT	1946755935
SNP_P4_21767_20620745	NC_021161.1	Ca_kabuli_chr02	20620745	GG	CC	1946755937
SNP_P4_21768_20620782	NC_021161.1	Ca_kabuli_chr02	20620782	TT	GG	1946755939
SNP_P4_21769_20620813	NC_021161.1	Ca_kabuli_chr02	20620813	AA	CC	1946755941
SNP_P4_21770_20621016	NC_021161.1	Ca_kabuli_chr02	20621016	TT	CC	1946755943
SNP_P4_21771_20621757	NC_021161.1	Ca_kabuli_chr02	20621757	TT	GG	1946755945
SNP_P4_21772_20621766	NC_021161.1	Ca_kabuli_chr02	20621766	CC	TT	1946755947
SNP_P4_21773_20621772	NC_021161.1	Ca_kabuli_chr02	20621772	TT	CC	1946755949
SNP_P4_21774_20621820	NC_021161.1	Ca_kabuli_chr02	20621820	GG	AA	1946755951
SNP_P4_21775_20622691	NC_021161.1	Ca_kabuli_chr02	20622691	GG	AA	1946755953
SNP_P4_21776_20622755	NC_021161.1	Ca_kabuli_chr02	20622755	CC	TT	1946755955
SNP_P4_21777_20622774	NC_021161.1	Ca_kabuli_chr02	20622774	GG	TT	1946755957
SNP_P4_21778_20622781	NC_021161.1	Ca_kabuli_chr02	20622781	AA	CC	1946755959
SNP_P4_21779_20622995	NC_021161.1	Ca_kabuli_chr02	20622995	AA	GG	1946755961
SNP_P4_21780_20623125	NC_021161.1	Ca_kabuli_chr02	20623125	CC	TT	1946755963
SNP_P4_21781_20623231	NC_021161.1	Ca_kabuli_chr02	20623231	AA	CC	1946755965
SNP_P4_21782_20623233	NC_021161.1	Ca_kabuli_chr02	20623233	GG	AA	1946755967
SNP_P4_21783_20625630	NC_021161.1	Ca_kabuli_chr02	20625630	GG	AA	1946755969
SNP_P4_21784_20648077	NC_021161.1	Ca_kabuli_chr02	20648077	AA	GG	1946755971
SNP_P4_21785_20649308	NC_021161.1	Ca_kabuli_chr02	20649308	GG	AA	1946755973

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_21786_20649365	NC_021161.1	Ca_kabuli_chr02	20649365	GG	TT	1946755975
SNP_P4_21787_20649954	NC_021161.1	Ca_kabuli_chr02	20649954	AA	GG	1946755977
SNP_P4_21788_20650162	NC_021161.1	Ca_kabuli_chr02	20650162	TT	GG	1946755979
SNP_P4_21789_20650197	NC_021161.1	Ca_kabuli_chr02	20650197	CC	TT	1946755981
SNP_P4_21790_20651446	NC_021161.1	Ca_kabuli_chr02	20651446	GG	CC	1946755983
SNP_P4_21791_20657628	NC_021161.1	Ca_kabuli_chr02	20657628	GG	AA	1946755985
SNP_P4_21792_20657872	NC_021161.1	Ca_kabuli_chr02	20657872	AA	TT	1946755987
SNP_P4_21793_20658258	NC_021161.1	Ca_kabuli_chr02	20658258	AA	CC	1946756000
SNP_P4_21794_20658668	NC_021161.1	Ca_kabuli_chr02	20658668	AA	GG	1946756007
SNP_P4_21795_20664675	NC_021161.1	Ca_kabuli_chr02	20664675	TT	AA	1946756013
SNP_P4_21796_20664706	NC_021161.1	Ca_kabuli_chr02	20664706	GG	CC	1946756021
SNP_P4_21797_20669213	NC_021161.1	Ca_kabuli_chr02	20669213	TT	AA	1946756026
SNP_P4_21798_20669235	NC_021161.1	Ca_kabuli_chr02	20669235	AA	CC	1946756028
SNP_P4_21799_20669243	NC_021161.1	Ca_kabuli_chr02	20669243	TT	AA	1946756031
SNP_P4_21800_20684741	NC_021161.1	Ca_kabuli_chr02	20684741	GG	AA	1946756034
SNP_P4_21801_20686438	NC_021161.1	Ca_kabuli_chr02	20686438	AA	GG	1946756042
SNP_P4_21802_20687212	NC_021161.1	Ca_kabuli_chr02	20687212	TT	AA	1946756047
SNP_P4_21804_20689345	NC_021161.1	Ca_kabuli_chr02	20689345	TT	AA	1946756049
SNP_P4_21805_20715620	NC_021161.1	Ca_kabuli_chr02	20715620	TT	CC	1946756058
SNP_P4_21806_20715741	NC_021161.1	Ca_kabuli_chr02	20715741	AA	CC	1946756066
SNP_P4_21807_20715765	NC_021161.1	Ca_kabuli_chr02	20715765	TT	CC	1946756069
SNP_P4_21809_20716070	NC_021161.1	Ca_kabuli_chr02	20716070	CC	AA	1946756071
SNP_P4_21810_20716088	NC_021161.1	Ca_kabuli_chr02	20716088	TT	GG	1946756084
SNP_P4_21811_20716111	NC_021161.1	Ca_kabuli_chr02	20716111	AA	CC	1946756090
SNP_P4_21812_20716113	NC_021161.1	Ca_kabuli_chr02	20716113	TT	AA	1946756099
SNP_P4_21813_20716119	NC_021161.1	Ca_kabuli_chr02	20716119	AA	GG	1946756101
SNP_P4_21814_20731139	NC_021161.1	Ca_kabuli_chr02	20731139	AA	GG	1946756109
SNP_P4_21815_20757229	NC_021161.1	Ca_kabuli_chr02	20757229	CC	TT	1946756111
SNP_P4_21818_20798707	NC_021161.1	Ca_kabuli_chr02	20798707	TT	CC	1946756113
SNP_P4_21819_20816836	NC_021161.1	Ca_kabuli_chr02	20816836	AA	CC	1946756120
SNP_P4_21820_20864528	NC_021161.1	Ca_kabuli_chr02	20864528	TT	AA	1946756122
SNP_P4_21821_20864534	NC_021161.1	Ca_kabuli_chr02	20864534	TT	AA	1946756125
SNP_P4_21822_20869172	NC_021161.1	Ca_kabuli_chr02	20869172	CC	TT	1946756127
SNP_P4_21823_20876878	NC_021161.1	Ca_kabuli_chr02	20876878	AA	CC	1946756129
SNP_P4_21824_20930903	NC_021161.1	Ca_kabuli_chr02	20930903	AA	GG	1946756131
SNP_P4_21825_20933569	NC_021161.1	Ca_kabuli_chr02	20933569	CC	TT	1946756133
SNP_P4_21826_20937750	NC_021161.1	Ca_kabuli_chr02	20937750	TT	GG	1946756135
SNP_P4_21827_20937760	NC_021161.1	Ca_kabuli_chr02	20937760	AA	GG	1946756137
SNP_P4_21828_20937782	NC_021161.1	Ca_kabuli_chr02	20937782	AA	GG	1946756140
SNP_P4_21829_20937863	NC_021161.1	Ca_kabuli_chr02	20937863	GG	AA	1946756142
SNP_P4_21830_20937875	NC_021161.1	Ca_kabuli_chr02	20937875	TT	GG	1946756144
SNP_P4_21831_20970000	NC_021161.1	Ca_kabuli_chr02	20970000	AA	GG	1946756146

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_21833_20970782	NC_021161.1	Ca_kabuli_chr02	20970782	AA	CC	1946756150
SNP_P4_21834_20970848	NC_021161.1	Ca_kabuli_chr02	20970848	TT	AA	1946756152
SNP_P4_21835_20971702	NC_021161.1	Ca_kabuli_chr02	20971702	GG	AA	1946756154
SNP_P4_21836_20971706	NC_021161.1	Ca_kabuli_chr02	20971706	TT	CC	1946756156
SNP_P4_21837_20998047	NC_021161.1	Ca_kabuli_chr02	20998047	AA	TT	1946756158
SNP_P4_21838_20998057	NC_021161.1	Ca_kabuli_chr02	20998057	GG	TT	1946756160
SNP_P4_21839_20998676	NC_021161.1	Ca_kabuli_chr02	20998676	CC	AA	1946756162
SNP_P4_21840_21000336	NC_021161.1	Ca_kabuli_chr02	21000336	CC	TT	1946756164
SNP_P4_21841_21000385	NC_021161.1	Ca_kabuli_chr02	21000385	AA	GG	1946756166
SNP_P4_21842_21000433	NC_021161.1	Ca_kabuli_chr02	21000433	TT	CC	1946756168
SNP_P4_21844_21038509	NC_021161.1	Ca_kabuli_chr02	21038509	CC	GG	1946756170
SNP_P4_21845_21038520	NC_021161.1	Ca_kabuli_chr02	21038520	GG	TT	1946756172
SNP_P4_21846_21038530	NC_021161.1	Ca_kabuli_chr02	21038530	AA	GG	1946756174
SNP_P4_21847_21038570	NC_021161.1	Ca_kabuli_chr02	21038570	TT	CC	1946756176
SNP_P4_21848_21040596	NC_021161.1	Ca_kabuli_chr02	21040596	TT	CC	1946756178
SNP_P4_21850_21044895	NC_021161.1	Ca_kabuli_chr02	21044895	AA	TT	1946756180
SNP_P4_21851_21085708	NC_021161.1	Ca_kabuli_chr02	21085708	GG	TT	1946756182
SNP_P4_21852_21140224	NC_021161.1	Ca_kabuli_chr02	21140224	GG	AA	1946756184
SNP_P4_21853_21140225	NC_021161.1	Ca_kabuli_chr02	21140225	AA	GG	1946756186
SNP_P4_21854_21140550	NC_021161.1	Ca_kabuli_chr02	21140550	CC	TT	1946756188
SNP_P4_21855_21140699	NC_021161.1	Ca_kabuli_chr02	21140699	TT	AA	1946756190
SNP_P4_21856_21140719	NC_021161.1	Ca_kabuli_chr02	21140719	GG	TT	1946756192
SNP_P4_21857_21140730	NC_021161.1	Ca_kabuli_chr02	21140730	GG	AA	1946756206
SNP_P4_21859_21161949	NC_021161.1	Ca_kabuli_chr02	21161949	GG	AA	1946756212
SNP_P4_21860_21161967	NC_021161.1	Ca_kabuli_chr02	21161967	GG	TT	1946756219
SNP_P4_21861_21176962	NC_021161.1	Ca_kabuli_chr02	21176962	GG	AA	1946756228
SNP_P4_21862_21176989	NC_021161.1	Ca_kabuli_chr02	21176989	AA	CC	1946756232
SNP_P4_21863_21204600	NC_021161.1	Ca_kabuli_chr02	21204600	GG	AA	1946756238
SNP_P4_21865_21204656	NC_021161.1	Ca_kabuli_chr02	21204656	AA	CC	1946756246
SNP_P4_21866_21204658	NC_021161.1	Ca_kabuli_chr02	21204658	AA	CC	1946756256
SNP_P4_21867_21204707	NC_021161.1	Ca_kabuli_chr02	21204707	TT	CC	1946756264
SNP_P4_21868_21204817	NC_021161.1	Ca_kabuli_chr02	21204817	TT	CC	1946756269
SNP_P4_21869_21205217	NC_021161.1	Ca_kabuli_chr02	21205217	TT	CC	1946756272
SNP_P4_21870_21205272	NC_021161.1	Ca_kabuli_chr02	21205272	TT	GG	1946756280
SNP_P4_21871_21205360	NC_021161.1	Ca_kabuli_chr02	21205360	TT	CC	1946756282
SNP_P4_21872_21208373	NC_021161.1	Ca_kabuli_chr02	21208373	AA	GG	1946756285
SNP_P4_21873_21208418	NC_021161.1	Ca_kabuli_chr02	21208418	CC	TT	1946756293
SNP_P4_21874_21208427	NC_021161.1	Ca_kabuli_chr02	21208427	GG	AA	1946756295
SNP_P4_21875_21208463	NC_021161.1	Ca_kabuli_chr02	21208463	GG	AA	1946756297
SNP_P4_21876_21208469	NC_021161.1	Ca_kabuli_chr02	21208469	GG	AA	1946756299
SNP_P4_21877_21208475	NC_021161.1	Ca_kabuli_chr02	21208475	CC	TT	1946756308

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_21879_21208565	NC_021161.1	Ca_kabuli_chr02	21208565	CC	TT	1946756313
SNP_P4_21880_21208622	NC_021161.1	Ca_kabuli_chr02	21208622	TT	AA	1946756322
SNP_P4_21881_21208629	NC_021161.1	Ca_kabuli_chr02	21208629	AA	GG	1946756324
SNP_P4_21882_21208635	NC_021161.1	Ca_kabuli_chr02	21208635	TT	CC	1946756332
SNP_P4_21883_21208637	NC_021161.1	Ca_kabuli_chr02	21208637	GG	TT	1946756334
SNP_P4_21884_21208655	NC_021161.1	Ca_kabuli_chr02	21208655	TT	CC	1946756336
SNP_P4_21885_21208656	NC_021161.1	Ca_kabuli_chr02	21208656	CC	TT	1946756338
SNP_P4_21886_21208658	NC_021161.1	Ca_kabuli_chr02	21208658	GG	AA	1946756340
SNP_P4_21887_21208665	NC_021161.1	Ca_kabuli_chr02	21208665	AA	GG	1946756342
SNP_P4_21888_21208697	NC_021161.1	Ca_kabuli_chr02	21208697	GG	AA	1946756344
SNP_P4_21889_21208729	NC_021161.1	Ca_kabuli_chr02	21208729	GG	CC	1946756346
SNP_P4_21890_21208757	NC_021161.1	Ca_kabuli_chr02	21208757	TT	CC	1946756349
SNP_P4_21891_21208799	NC_021161.1	Ca_kabuli_chr02	21208799	TT	GG	1946756351
SNP_P4_21892_21208803	NC_021161.1	Ca_kabuli_chr02	21208803	TT	AA	1946756353
SNP_P4_21893_21208805	NC_021161.1	Ca_kabuli_chr02	21208805	AA	GG	1946756355
SNP_P4_21894_21208854	NC_021161.1	Ca_kabuli_chr02	21208854	AA	TT	1946756357
SNP_P4_21895_21208855	NC_021161.1	Ca_kabuli_chr02	21208855	AA	TT	1946756359
SNP_P4_21896_21208862	NC_021161.1	Ca_kabuli_chr02	21208862	AA	GG	1946756361
SNP_P4_21897_21208877	NC_021161.1	Ca_kabuli_chr02	21208877	TT	CC	1946756363
SNP_P4_21898_21209161	NC_021161.1	Ca_kabuli_chr02	21209161	TT	CC	1946756365
SNP_P4_21899_21231304	NC_021161.1	Ca_kabuli_chr02	21231304	TT	AA	1946756367
SNP_P4_21900_21231725	NC_021161.1	Ca_kabuli_chr02	21231725	TT	AA	1946756369
SNP_P4_21901_21272137	NC_021161.1	Ca_kabuli_chr02	21272137	AA	TT	1946756371
SNP_P4_21902_21272140	NC_021161.1	Ca_kabuli_chr02	21272140	TT	AA	1946756373
SNP_P4_21903_21272141	NC_021161.1	Ca_kabuli_chr02	21272141	TT	GG	1946756375
SNP_P4_21904_21272263	NC_021161.1	Ca_kabuli_chr02	21272263	AA	GG	1946756378
SNP_P4_21905_21272284	NC_021161.1	Ca_kabuli_chr02	21272284	AA	GG	1946756380
SNP_P4_21906_21272285	NC_021161.1	Ca_kabuli_chr02	21272285	TT	CC	1946756382
SNP_P4_21907_21274927	NC_021161.1	Ca_kabuli_chr02	21274927	CC	GG	1946756384
SNP_P4_21908_21283406	NC_021161.1	Ca_kabuli_chr02	21283406	TT	AA	1946756386
SNP_P4_21909_21303173	NC_021161.1	Ca_kabuli_chr02	21303173	CC	TT	1946756388
SNP_P4_21910_21303191	NC_021161.1	Ca_kabuli_chr02	21303191	TT	AA	1946756390
SNP_P4_21911_21303216	NC_021161.1	Ca_kabuli_chr02	21303216	TT	AA	1946756392
SNP_P4_21912_21303226	NC_021161.1	Ca_kabuli_chr02	21303226	AA	GG	1946756394
SNP_P4_21913_21303232	NC_021161.1	Ca_kabuli_chr02	21303232	TT	CC	1946756396
SNP_P4_21914_21303284	NC_021161.1	Ca_kabuli_chr02	21303284	TT	CC	1946756398
SNP_P4_21915_21303293	NC_021161.1	Ca_kabuli_chr02	21303293	TT	CC	1946756400
SNP_P4_21916_21303360	NC_021161.1	Ca_kabuli_chr02	21303360	AA	GG	1946756402
SNP_P4_21917_21303406	NC_021161.1	Ca_kabuli_chr02	21303406	TT	CC	1946756404
SNP_P4_21918_21303416	NC_021161.1	Ca_kabuli_chr02	21303416	TT	GG	1946756406
SNP_P4_21919_21303447	NC_021161.1	Ca_kabuli_chr02	21303447	CC	TT	1946756408

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_21921_21303477	NC_021161.1	Ca_kabuli_chr02	21303477	TT	CC	1946756426
SNP_P4_21922_21303495	NC_021161.1	Ca_kabuli_chr02	21303495	CC	TT	1946756433
SNP_P4_21923_21303504	NC_021161.1	Ca_kabuli_chr02	21303504	AA	GG	1946756438
SNP_P4_21924_21303507	NC_021161.1	Ca_kabuli_chr02	21303507	CC	TT	1946756447
SNP_P4_21925_21303510	NC_021161.1	Ca_kabuli_chr02	21303510	GG	AA	1946756454
SNP_P4_21926_21303521	NC_021161.1	Ca_kabuli_chr02	21303521	GG	AA	1946756463
SNP_P4_21927_21303611	NC_021161.1	Ca_kabuli_chr02	21303611	TT	CC	1946756470
SNP_P4_21928_21303710	NC_021161.1	Ca_kabuli_chr02	21303710	GG	AA	1946756474
SNP_P4_21929_21303865	NC_021161.1	Ca_kabuli_chr02	21303865	GG	AA	1946756482
SNP_P4_21930_21305085	NC_021161.1	Ca_kabuli_chr02	21305085	GG	AA	1946756486
SNP_P4_21931_21305115	NC_021161.1	Ca_kabuli_chr02	21305115	TT	AA	1946756488
SNP_P4_21932_21305146	NC_021161.1	Ca_kabuli_chr02	21305146	GG	AA	1946756496
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SNP_P4_21934_21305159	NC_021161.1	Ca_kabuli_chr02	21305159	CC	TT	1946756500
SNP_P4_21935_21305163	NC_021161.1	Ca_kabuli_chr02	21305163	AA	GG	1946756508
SNP_P4_21936_21305174	NC_021161.1	Ca_kabuli_chr02	21305174	AA	GG	1946756510
SNP_P4_21937_21305212	NC_021161.1	Ca_kabuli_chr02	21305212	TT	AA	1946756518
SNP_P4_21938_21305227	NC_021161.1	Ca_kabuli_chr02	21305227	TT	GG	1946756520
SNP_P4_21939_21305674	NC_021161.1	Ca_kabuli_chr02	21305674	AA	CC	1946756522
SNP_P4_21941_21308061	NC_021161.1	Ca_kabuli_chr02	21308061	AA	TT	1946756531
SNP_P4_21942_21308513	NC_021161.1	Ca_kabuli_chr02	21308513	GG	AA	1946756533
SNP_P4_21943_21308765	NC_021161.1	Ca_kabuli_chr02	21308765	TT	GG	1946756541
SNP_P4_21944_21308797	NC_021161.1	Ca_kabuli_chr02	21308797	GG	AA	1946756543
SNP_P4_21945_21308948	NC_021161.1	Ca_kabuli_chr02	21308948	CC	TT	1946756545
SNP_P4_21946_21309174	NC_021161.1	Ca_kabuli_chr02	21309174	AA	TT	1946756547
SNP_P4_21947_21309198	NC_021161.1	Ca_kabuli_chr02	21309198	AA	CC	1946756549
SNP_P4_21948_21309378	NC_021161.1	Ca_kabuli_chr02	21309378	CC	AA	1946756551
SNP_P4_21949_21309429	NC_021161.1	Ca_kabuli_chr02	21309429	AA	TT	1946756553
SNP_P4_21950_21309512	NC_021161.1	Ca_kabuli_chr02	21309512	TT	CC	1946756555
SNP_P4_21951_21309613	NC_021161.1	Ca_kabuli_chr02	21309613	AA	GG	1946756557
SNP_P4_21952_21309658	NC_021161.1	Ca_kabuli_chr02	21309658	AA	GG	1946756559
SNP_P4_21953_21309735	NC_021161.1	Ca_kabuli_chr02	21309735	TT	CC	1946756561
SNP_P4_21954_21310017	NC_021161.1	Ca_kabuli_chr02	21310017	CC	TT	1946756564
SNP_P4_21955_21310027	NC_021161.1	Ca_kabuli_chr02	21310027	TT	CC	1946756566
SNP_P4_21956_21310041	NC_021161.1	Ca_kabuli_chr02	21310041	TT	CC	1946756568
SNP_P4_21957_21310066	NC_021161.1	Ca_kabuli_chr02	21310066	GG	AA	1946756570
SNP_P4_21958_21310624	NC_021161.1	Ca_kabuli_chr02	21310624	TT	AA	1946756572
SNP_P4_21959_21310638	NC_021161.1	Ca_kabuli_chr02	21310638	CC	TT	1946756574
SNP_P4_21960_21312134	NC_021161.1	Ca_kabuli_chr02	21312134	GG	AA	1946756576
SNP_P4_21962_21313544	NC_021161.1	Ca_kabuli_chr02	21313544	GG	AA	1946756578
SNP_P4_21963_21313567	NC_021161.1	Ca_kabuli_chr02	21313567	AA	CC	1946756580

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_21965_21314076	NC_021161.1	Ca_kabuli_chr02	21314076	GG	CC	1946756584
SNP_P4_21967_21314644	NC_021161.1	Ca_kabuli_chr02	21314644	TT	GG	1946756586
SNP_P4_21968_21314952	NC_021161.1	Ca_kabuli_chr02	21314952	AA	TT	1946756588
SNP_P4_21969_21314992	NC_021161.1	Ca_kabuli_chr02	21314992	AA	TT	1946756590
SNP_P4_21970_21315061	NC_021161.1	Ca_kabuli_chr02	21315061	AA	TT	1946756592
SNP_P4_21971_21315322	NC_021161.1	Ca_kabuli_chr02	21315322	AA	GG	1946756594
SNP_P4_21972_21315386	NC_021161.1	Ca_kabuli_chr02	21315386	TT	AA	1946756596
SNP_P4_21973_21315492	NC_021161.1	Ca_kabuli_chr02	21315492	GG	TT	1946756598
SNP_P4_21974_21315498	NC_021161.1	Ca_kabuli_chr02	21315498	CC	AA	1946756600
SNP_P4_21975_21315499	NC_021161.1	Ca_kabuli_chr02	21315499	AA	TT	1946756602
SNP_P4_21976_21315518	NC_021161.1	Ca_kabuli_chr02	21315518	AA	CC	1946756604
SNP_P4_21977_21315541	NC_021161.1	Ca_kabuli_chr02	21315541	TT	GG	1946756606
SNP_P4_21978_21315542	NC_021161.1	Ca_kabuli_chr02	21315542	TT	AA	1946756608
SNP_P4_21979_21315543	NC_021161.1	Ca_kabuli_chr02	21315543	GG	AA	1946756610
SNP_P4_21980_21315545	NC_021161.1	Ca_kabuli_chr02	21315545	AA	GG	1946756619
SNP_P4_21981_21317521	NC_021161.1	Ca_kabuli_chr02	21317521	AA	GG	1946756630
SNP_P4_21982_21318214	NC_021161.1	Ca_kabuli_chr02	21318214	TT	CC	1946756637
SNP_P4_21983_21318506	NC_021161.1	Ca_kabuli_chr02	21318506	TT	GG	1946756645
SNP_P4_21984_21318936	NC_021161.1	Ca_kabuli_chr02	21318936	TT	AA	1946756650
SNP_P4_21985_21319310	NC_021161.1	Ca_kabuli_chr02	21319310	CC	AA	1946756658
SNP_P4_21986_21321583	NC_021161.1	Ca_kabuli_chr02	21321583	GG	AA	1946756665
SNP_P4_21988_21404913	NC_021161.1	Ca_kabuli_chr02	21404913	CC	GG	1946756672
SNP_P4_21989_21405635	NC_021161.1	Ca_kabuli_chr02	21405635	CC	TT	1946756680
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SNP_P4_21991_21413533	NC_021161.1	Ca_kabuli_chr02	21413533	GG	AA	1946756689
SNP_P4_21992_21442606	NC_021161.1	Ca_kabuli_chr02	21442606	TT	AA	1946756696
SNP_P4_21993_21511457	NC_021161.1	Ca_kabuli_chr02	21511457	TT	CC	1946756702
SNP_P4_21994_21524332	NC_021161.1	Ca_kabuli_chr02	21524332	CC	GG	1946756706
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SNP_P4_21996_21524572	NC_021161.1	Ca_kabuli_chr02	21524572	GG	AA	1946756717
SNP_P4_21997_21524581	NC_021161.1	Ca_kabuli_chr02	21524581	TT	GG	1946756719
SNP_P4_21998_21536027	NC_021161.1	Ca_kabuli_chr02	21536027	GG	AA	1946756721
SNP_P4_21999_21536147	NC_021161.1	Ca_kabuli_chr02	21536147	TT	CC	1946756729
SNP_P4_22000_21536342	NC_021161.1	Ca_kabuli_chr02	21536342	TT	CC	1946756734
SNP_P4_22001_21536343	NC_021161.1	Ca_kabuli_chr02	21536343	GG	AA	1946756742
SNP_P4_22002_21536357	NC_021161.1	Ca_kabuli_chr02	21536357	AA	TT	1946756744
SNP_P4_22003_21536461	NC_021161.1	Ca_kabuli_chr02	21536461	AA	GG	1946756746
SNP_P4_22004_21536526	NC_021161.1	Ca_kabuli_chr02	21536526	AA	GG	1946756750
SNP_P4_22005_21537510	NC_021161.1	Ca_kabuli_chr02	21537510	CC	TT	1946756752
SNP_P4_22006_21537511	NC_021161.1	Ca_kabuli_chr02	21537511	TT	CC	1946756754
SNP_P4_22007_21537513	NC_021161.1	Ca_kabuli_chr02	21537513	CC	TT	1946756756

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_22008_21537517	NC_021161.1	Ca_kabuli_chr02	21537517	GG	AA	1946756758
SNP_P4_22009_21537521	NC_021161.1	Ca_kabuli_chr02	21537521	CC	TT	1946756760
SNP_P4_22010_21537524	NC_021161.1	Ca_kabuli_chr02	21537524	TT	GG	1946756762
SNP_P4_22011_21537922	NC_021161.1	Ca_kabuli_chr02	21537922	AA	TT	1946756764
SNP_P4_22012_21537944	NC_021161.1	Ca_kabuli_chr02	21537944	AA	GG	1946756766
SNP_P4_22013_21538258	NC_021161.1	Ca_kabuli_chr02	21538258	TT	CC	1946756768
SNP_P4_22014_21538462	NC_021161.1	Ca_kabuli_chr02	21538462	AA	GG	1946756770
SNP_P4_22015_21538652	NC_021161.1	Ca_kabuli_chr02	21538652	AA	GG	1946756772
SNP_P4_22017_21582437	NC_021161.1	Ca_kabuli_chr02	21582437	GG	AA	1946756774
SNP_P4_22019_21652295	NC_021161.1	Ca_kabuli_chr02	21652295	GG	TT	1946756776
SNP_P4_22020_21652304	NC_021161.1	Ca_kabuli_chr02	21652304	CC	TT	1946756778
SNP_P4_22021_21652311	NC_021161.1	Ca_kabuli_chr02	21652311	CC	TT	1946756780
SNP_P4_22023_21666150	NC_021161.1	Ca_kabuli_chr02	21666150	TT	GG	1946756782
SNP_P4_22025_21673803	NC_021161.1	Ca_kabuli_chr02	21673803	GG	AA	1946756784
SNP_P4_22026_21675194	NC_021161.1	Ca_kabuli_chr02	21675194	TT	AA	1946756786
SNP_P4_22027_21675199	NC_021161.1	Ca_kabuli_chr02	21675199	TT	CC	1946756788
SNP_P4_22028_21675210	NC_021161.1	Ca_kabuli_chr02	21675210	TT	CC	1946756790
SNP_P4_22029_21675221	NC_021161.1	Ca_kabuli_chr02	21675221	AA	TT	1946756792
SNP_P4_22030_21684599	NC_021161.1	Ca_kabuli_chr02	21684599	GG	AA	1946756794
SNP_P4_22031_21690307	NC_021161.1	Ca_kabuli_chr02	21690307	AA	GG	1946756797
SNP_P4_22032_21690319	NC_021161.1	Ca_kabuli_chr02	21690319	AA	GG	1946756799
SNP_P4_22033_21690322	NC_021161.1	Ca_kabuli_chr02	21690322	TT	CC	1946756801
SNP_P4_22036_21711508	NC_021161.1	Ca_kabuli_chr02	21711508	GG	CC	1946756803
SNP_P4_22038_21753457	NC_021161.1	Ca_kabuli_chr02	21753457	AA	TT	1946756805
SNP_P4_22039_21767611	NC_021161.1	Ca_kabuli_chr02	21767611	CC	TT	1946756807
SNP_P4_22040_21767641	NC_021161.1	Ca_kabuli_chr02	21767641	TT	AA	1946756809
SNP_P4_22041_21774772	NC_021161.1	Ca_kabuli_chr02	21774772	AA	GG	1946756811
SNP_P4_22042_21774779	NC_021161.1	Ca_kabuli_chr02	21774779	CC	TT	1946756813
SNP_P4_22043_21777789	NC_021161.1	Ca_kabuli_chr02	21777789	GG	AA	1946756815
SNP_P4_22044_21777813	NC_021161.1	Ca_kabuli_chr02	21777813	CC	TT	1946756816
SNP_P4_22045_21777815	NC_021161.1	Ca_kabuli_chr02	21777815	CC	TT	1946756817
SNP_P4_22046_21777840	NC_021161.1	Ca_kabuli_chr02	21777840	AA	GG	1946756818
SNP_P4_22047_21778484	NC_021161.1	Ca_kabuli_chr02	21778484	GG	AA	1946756819
SNP_P4_22048_21778624	NC_021161.1	Ca_kabuli_chr02	21778624	CC	TT	1946756820
SNP_P4_22049_21778625	NC_021161.1	Ca_kabuli_chr02	21778625	AA	GG	1946756821
SNP_P4_22050_21778640	NC_021161.1	Ca_kabuli_chr02	21778640	TT	CC	1946756822
SNP_P4_22052_21784046	NC_021161.1	Ca_kabuli_chr02	21784046	GG	AA	1946756835
SNP_P4_22053_21784068	NC_021161.1	Ca_kabuli_chr02	21784068	TT	CC	1946756842
SNP_P4_22054_21784122	NC_021161.1	Ca_kabuli_chr02	21784122	AA	GG	1946756851
SNP_P4_22055_21784373	NC_021161.1	Ca_kabuli_chr02	21784373	GG	AA	1946756856
SNP_P4_22056_21790060	NC_021161.1	Ca_kabuli_chr02	21790060	TT	AA	1946756861
SNP_P4_22057_21790061	NC_021161.1	Ca_kabuli_chr02	21790061	AA	TT	1946756869

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_22059_21856238	NC_021161.1	Ca_kabuli_chr02	21856238	TT	AA	1946756874
SNP_P4_22060_21892004	NC_021161.1	Ca_kabuli_chr02	21892004	CC	TT	1946756879
SNP_P4_22061_21892987	NC_021161.1	Ca_kabuli_chr02	21892987	AA	GG	1946756885
SNP_P4_22062_21902368	NC_021161.1	Ca_kabuli_chr02	21902368	AA	GG	1946756889
SNP_P4_22063_21902402	NC_021161.1	Ca_kabuli_chr02	21902402	CC	AA	1946756896
SNP_P4_22064_21902467	NC_021161.1	Ca_kabuli_chr02	21902467	TT	AA	1946756900
SNP_P4_22065_21902569	NC_021161.1	Ca_kabuli_chr02	21902569	GG	AA	1946756902
SNP_P4_22066_21902833	NC_021161.1	Ca_kabuli_chr02	21902833	AA	GG	1946756910
SNP_P4_22067_21902887	NC_021161.1	Ca_kabuli_chr02	21902887	AA	GG	1946756912
SNP_P4_22068_21902926	NC_021161.1	Ca_kabuli_chr02	21902926	TT	CC	1946756919
SNP_P4_22069_21902931	NC_021161.1	Ca_kabuli_chr02	21902931	GG	AA	1946756923
SNP_P4_22070_21928383	NC_021161.1	Ca_kabuli_chr02	21928383	TT	CC	1946756925
SNP_P4_22071_21928409	NC_021161.1	Ca_kabuli_chr02	21928409	AA	CC	1946756934
SNP_P4_22072_21928424	NC_021161.1	Ca_kabuli_chr02	21928424	AA	CC	1946756936
SNP_P4_22073_21930180	NC_021161.1	Ca_kabuli_chr02	21930180	CC	TT	1946756938
SNP_P4_22074_21930245	NC_021161.1	Ca_kabuli_chr02	21930245	GG	TT	1946756946
SNP_P4_22076_21943761	NC_021161.1	Ca_kabuli_chr02	21943761	AA	GG	1946756948
SNP_P4_22077_21943801	NC_021161.1	Ca_kabuli_chr02	21943801	GG	AA	1946756953
SNP_P4_22078_21943808	NC_021161.1	Ca_kabuli_chr02	21943808	GG	AA	1946756955
SNP_P4_22079_21943810	NC_021161.1	Ca_kabuli_chr02	21943810	CC	TT	1946756957
SNP_P4_22080_21943811	NC_021161.1	Ca_kabuli_chr02	21943811	TT	CC	1946756959
SNP_P4_22081_21956077	NC_021161.1	Ca_kabuli_chr02	21956077	TT	CC	1946756961
SNP_P4_22082_21956087	NC_021161.1	Ca_kabuli_chr02	21956087	CC	AA	1946756963
SNP_P4_22083_21956120	NC_021161.1	Ca_kabuli_chr02	21956120	TT	CC	1946756965
SNP_P4_22084_21956362	NC_021161.1	Ca_kabuli_chr02	21956362	AA	GG	1946756967
SNP_P4_22085_21956372	NC_021161.1	Ca_kabuli_chr02	21956372	CC	AA	1946756970
SNP_P4_22086_21956384	NC_021161.1	Ca_kabuli_chr02	21956384	TT	AA	1946756972
SNP_P4_22087_21956415	NC_021161.1	Ca_kabuli_chr02	21956415	CC	AA	1946756974
SNP_P4_22088_21956434	NC_021161.1	Ca_kabuli_chr02	21956434	AA	GG	1946756976
SNP_P4_22089_21956483	NC_021161.1	Ca_kabuli_chr02	21956483	AA	TT	1946756978
SNP_P4_22090_21960131	NC_021161.1	Ca_kabuli_chr02	21960131	GG	AA	1946756980
SNP_P4_22091_21997897	NC_021161.1	Ca_kabuli_chr02	21997897	AA	GG	1946756982
SNP_P4_22092_21998659	NC_021161.1	Ca_kabuli_chr02	21998659	CC	TT	1946756984
SNP_P4_22093_21998706	NC_021161.1	Ca_kabuli_chr02	21998706	AA	GG	1946756986
SNP_P4_22094_21998821	NC_021161.1	Ca_kabuli_chr02	21998821	GG	AA	1946756988
SNP_P4_22095_21998850	NC_021161.1	Ca_kabuli_chr02	21998850	AA	TT	1946756990
SNP_P4_22096_21998853	NC_021161.1	Ca_kabuli_chr02	21998853	TT	CC	1946756992
SNP_P4_22097_21998972	NC_021161.1	Ca_kabuli_chr02	21998972	GG	AA	1946756994
SNP_P4_22098_21999067	NC_021161.1	Ca_kabuli_chr02	21999067	GG	AA	1946756996
SNP_P4_22099_21999072	NC_021161.1	Ca_kabuli_chr02	21999072	CC	TT	1946756998
SNP_P4_22100_21999109	NC_021161.1	Ca_kabuli_chr02	21999109	TT	AA	1946757000
SNP_P4_22101_21999324	NC_021161.1	Ca_kabuli_chr02	21999324	GG	AA	1946757002

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_22102_21999325	NC_021161.1	Ca_kabuli_chr02	21999325	TT	CC	1946757004
SNP_P4_22103_21999343	NC_021161.1	Ca_kabuli_chr02	21999343	TT	AA	1946757006
SNP_P4_22104_22045738	NC_021161.1	Ca_kabuli_chr02	22045738	AA	CC	1946757008
SNP_P4_22105_22045756	NC_021161.1	Ca_kabuli_chr02	22045756	TT	GG	1946757010
SNP_P4_22106_22065261	NC_021161.1	Ca_kabuli_chr02	22065261	GG	AA	1946757012
SNP_P4_22107_22065308	NC_021161.1	Ca_kabuli_chr02	22065308	GG	CC	1946757014
SNP_P4_22108_22065609	NC_021161.1	Ca_kabuli_chr02	22065609	AA	TT	1946757016
SNP_P4_22109_22065623	NC_021161.1	Ca_kabuli_chr02	22065623	AA	GG	1946757018
SNP_P4_22110_22065786	NC_021161.1	Ca_kabuli_chr02	22065786	CC	GG	1946757020
SNP_P4_22111_22068040	NC_021161.1	Ca_kabuli_chr02	22068040	TT	CC	1946757022
SNP_P4_22112_22068045	NC_021161.1	Ca_kabuli_chr02	22068045	TT	CC	1946757024
SNP_P4_22113_22068049	NC_021161.1	Ca_kabuli_chr02	22068049	GG	AA	1946757025
SNP_P4_22114_22068052	NC_021161.1	Ca_kabuli_chr02	22068052	TT	GG	1946757026
SNP_P4_22115_22068088	NC_021161.1	Ca_kabuli_chr02	22068088	CC	TT	1946757027
SNP_P4_22116_22068109	NC_021161.1	Ca_kabuli_chr02	22068109	GG	AA	1946757028
SNP_P4_22117_22069827	NC_021161.1	Ca_kabuli_chr02	22069827	GG	AA	1946757029
SNP_P4_22118_22111422	NC_021161.1	Ca_kabuli_chr02	22111422	GG	TT	1946757031
SNP_P4_22119_22154700	NC_021161.1	Ca_kabuli_chr02	22154700	CC	AA	1946757036
SNP_P4_22120_22179799	NC_021161.1	Ca_kabuli_chr02	22179799	TT	CC	1946757044
SNP_P4_22121_22194970	NC_021161.1	Ca_kabuli_chr02	22194970	GG	TT	1946757051
SNP_P4_22122_22195071	NC_021161.1	Ca_kabuli_chr02	22195071	TT	GG	1946757061
SNP_P4_22123_22195132	NC_021161.1	Ca_kabuli_chr02	22195132	TT	CC	1946757069
SNP_P4_22124_22195346	NC_021161.1	Ca_kabuli_chr02	22195346	AA	GG	1946757074
SNP_P4_22125_22195390	NC_021161.1	Ca_kabuli_chr02	22195390	AA	CC	1946757082
SNP_P4_22126_22195409	NC_021161.1	Ca_kabuli_chr02	22195409	GG	AA	1946757085
SNP_P4_22128_22196671	NC_021161.1	Ca_kabuli_chr02	22196671	TT	AA	1946757087
SNP_P4_22129_22202179	NC_021161.1	Ca_kabuli_chr02	22202179	AA	GG	1946757095
SNP_P4_22130_22202206	NC_021161.1	Ca_kabuli_chr02	22202206	GG	AA	1946757097
SNP_P4_22131_22202207	NC_021161.1	Ca_kabuli_chr02	22202207	CC	AA	1946757099
SNP_P4_22132_22202209	NC_021161.1	Ca_kabuli_chr02	22202209	TT	GG	1946757106
SNP_P4_22133_22202215	NC_021161.1	Ca_kabuli_chr02	22202215	CC	GG	1946757109
SNP_P4_22134_22202230	NC_021161.1	Ca_kabuli_chr02	22202230	CC	TT	1946757111
SNP_P4_22135_22202240	NC_021161.1	Ca_kabuli_chr02	22202240	TT	GG	1946757119
SNP_P4_22136_22202518	NC_021161.1	Ca_kabuli_chr02	22202518	GG	TT	1946757122
SNP_P4_22137_22202550	NC_021161.1	Ca_kabuli_chr02	22202550	CC	TT	1946757124
SNP_P4_22138_22202590	NC_021161.1	Ca_kabuli_chr02	22202590	CC	AA	1946757133
SNP_P4_22139_22202596	NC_021161.1	Ca_kabuli_chr02	22202596	CC	TT	1946757135
SNP_P4_22140_22203685	NC_021161.1	Ca_kabuli_chr02	22203685	TT	GG	1946757142
SNP_P4_22141_22203691	NC_021161.1	Ca_kabuli_chr02	22203691	TT	CC	1946757144
SNP_P4_22142_22203733	NC_021161.1	Ca_kabuli_chr02	22203733	AA	TT	1946757146
SNP_P4_22143_22204612	NC_021161.1	Ca_kabuli_chr02	22204612	GG	AA	1946757148
SNP_P4_22144_22284811	NC_021161.1	Ca_kabuli_chr02	22284811	AA	GG	1946757150

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_22145_22284879	NC_021161.1	Ca_kabuli_chr02	22284879	CC	TT	1946757152
SNP_P4_22146_22284941	NC_021161.1	Ca_kabuli_chr02	22284941	TT	CC	1946757154
SNP_P4_22147_22285071	NC_021161.1	Ca_kabuli_chr02	22285071	AA	GG	1946757156
SNP_P4_22148_22285324	NC_021161.1	Ca_kabuli_chr02	22285324	AA	CC	1946757158
SNP_P4_22149_22285352	NC_021161.1	Ca_kabuli_chr02	22285352	AA	GG	1946757160
SNP_P4_22150_22301313	NC_021161.1	Ca_kabuli_chr02	22301313	TT	AA	1946757162
SNP_P4_22152_22310935	NC_021161.1	Ca_kabuli_chr02	22310935	TT	AA	1946757164
SNP_P4_22153_22331987	NC_021161.1	Ca_kabuli_chr02	22331987	AA	GG	1946757166
SNP_P4_22154_22334910	NC_021161.1	Ca_kabuli_chr02	22334910	AA	GG	1946757168
SNP_P4_22155_22359602	NC_021161.1	Ca_kabuli_chr02	22359602	GG	CC	1946757170
SNP_P4_22156_22360291	NC_021161.1	Ca_kabuli_chr02	22360291	TT	GG	1946757172
SNP_P4_22157_22442776	NC_021161.1	Ca_kabuli_chr02	22442776	GG	TT	1946757174
SNP_P4_22158_22451468	NC_021161.1	Ca_kabuli_chr02	22451468	TT	AA	1946757176
SNP_P4_22159_22451474	NC_021161.1	Ca_kabuli_chr02	22451474	CC	TT	1946757178
SNP_P4_22160_22455625	NC_021161.1	Ca_kabuli_chr02	22455625	CC	TT	1946757180
SNP_P4_22161_22455658	NC_021161.1	Ca_kabuli_chr02	22455658	TT	CC	1946757182
SNP_P4_22162_22456780	NC_021161.1	Ca_kabuli_chr02	22456780	AA	GG	1946757184
SNP_P4_22163_22456800	NC_021161.1	Ca_kabuli_chr02	22456800	GG	CC	1946757186
SNP_P4_22164_22456854	NC_021161.1	Ca_kabuli_chr02	22456854	GG	TT	1946757188
SNP_P4_22166_22480535	NC_021161.1	Ca_kabuli_chr02	22480535	AA	TT	1946757190
SNP_P4_22167_22482091	NC_021161.1	Ca_kabuli_chr02	22482091	AA	GG	1946757193
SNP_P4_22168_22482461	NC_021161.1	Ca_kabuli_chr02	22482461	TT	GG	1946757195
SNP_P4_22169_22482510	NC_021161.1	Ca_kabuli_chr02	22482510	TT	CC	1946757197
SNP_P4_22170_22482511	NC_021161.1	Ca_kabuli_chr02	22482511	GG	AA	1946757199
SNP_P4_22171_22482541	NC_021161.1	Ca_kabuli_chr02	22482541	TT	GG	1946757201
SNP_P4_22172_22482559	NC_021161.1	Ca_kabuli_chr02	22482559	CC	AA	1946757203
SNP_P4_22173_22482563	NC_021161.1	Ca_kabuli_chr02	22482563	TT	AA	1946757205
SNP_P4_22174_22482569	NC_021161.1	Ca_kabuli_chr02	22482569	TT	CC	1946757207
SNP_P4_22175_22482573	NC_021161.1	Ca_kabuli_chr02	22482573	GG	AA	1946757209
SNP_P4_22176_22482592	NC_021161.1	Ca_kabuli_chr02	22482592	TT	GG	1946757211
SNP_P4_22177_22482884	NC_021161.1	Ca_kabuli_chr02	22482884	TT	GG	1946757213
SNP_P4_22178_22482889	NC_021161.1	Ca_kabuli_chr02	22482889	TT	CC	1946757215
SNP_P4_22180_22489276	NC_021161.1	Ca_kabuli_chr02	22489276	AA	TT	1946757218
SNP_P4_22181_22489285	NC_021161.1	Ca_kabuli_chr02	22489285	GG	AA	1946757232
SNP_P4_22183_22505099	NC_021161.1	Ca_kabuli_chr02	22505099	AA	GG	1946757241
SNP_P4_22184_22505169	NC_021161.1	Ca_kabuli_chr02	22505169	AA	TT	1946757251
SNP_P4_22185_22505171	NC_021161.1	Ca_kabuli_chr02	22505171	AA	TT	1946757258
SNP_P4_22186_22505201	NC_021161.1	Ca_kabuli_chr02	22505201	TT	CC	1946757263
SNP_P4_22187_22506609	NC_021161.1	Ca_kabuli_chr02	22506609	TT	CC	1946757270
SNP_P4_22188_22506647	NC_021161.1	Ca_kabuli_chr02	22506647	CC	TT	1946757275
SNP_P4_22189_22507270	NC_021161.1	Ca_kabuli_chr02	22507270	CC	TT	1946757283
SNP_P4_22192_22565512	NC_021161.1	Ca_kabuli_chr02	22565512	AA	TT	1946757286

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_22194_22584995	NC_021161.1	Ca_kabuli_chr02	22584995	TT	CC	1946757291
SNP_P4_22195_22585012	NC_021161.1	Ca_kabuli_chr02	22585012	AA	GG	1946757299
SNP_P4_22196_22585014	NC_021161.1	Ca_kabuli_chr02	22585014	AA	GG	1946757301
SNP_P4_22197_22585020	NC_021161.1	Ca_kabuli_chr02	22585020	TT	AA	1946757303
SNP_P4_22198_22585021	NC_021161.1	Ca_kabuli_chr02	22585021	TT	AA	1946757311
SNP_P4_22199_22585022	NC_021161.1	Ca_kabuli_chr02	22585022	TT	AA	1946757314
SNP_P4_22200_22585041	NC_021161.1	Ca_kabuli_chr02	22585041	CC	AA	1946757321
SNP_P4_22201_22585057	NC_021161.1	Ca_kabuli_chr02	22585057	TT	CC	1946757324
SNP_P4_22202_22585089	NC_021161.1	Ca_kabuli_chr02	22585089	AA	GG	1946757326
SNP_P4_22203_22585356	NC_021161.1	Ca_kabuli_chr02	22585356	AA	GG	1946757335
SNP_P4_22204_22585358	NC_021161.1	Ca_kabuli_chr02	22585358	AA	GG	1946757337
SNP_P4_22205_22585363	NC_021161.1	Ca_kabuli_chr02	22585363	TT	CC	1946757346
SNP_P4_22206_22585398	NC_021161.1	Ca_kabuli_chr02	22585398	AA	GG	1946757354
SNP_P4_22207_22590652	NC_021161.1	Ca_kabuli_chr02	22590652	TT	CC	1946757357
SNP_P4_22208_22594050	NC_021161.1	Ca_kabuli_chr02	22594050	CC	TT	1946757359
SNP_P4_22209_22594431	NC_021161.1	Ca_kabuli_chr02	22594431	CC	TT	1946757361
SNP_P4_22210_22594436	NC_021161.1	Ca_kabuli_chr02	22594436	AA	GG	1946757363
SNP_P4_22211_22594465	NC_021161.1	Ca_kabuli_chr02	22594465	TT	CC	1946757365
SNP_P4_22212_22599082	NC_021161.1	Ca_kabuli_chr02	22599082	CC	TT	1946757367
SNP_P4_22213_22602363	NC_021161.1	Ca_kabuli_chr02	22602363	GG	AA	1946757369
SNP_P4_22214_22608350	NC_021161.1	Ca_kabuli_chr02	22608350	AA	GG	1946757371
SNP_P4_22215_22608372	NC_021161.1	Ca_kabuli_chr02	22608372	AA	GG	1946757373
SNP_P4_22216_22608402	NC_021161.1	Ca_kabuli_chr02	22608402	AA	GG	1946757375
SNP_P4_22217_22608411	NC_021161.1	Ca_kabuli_chr02	22608411	AA	GG	1946757377
SNP_P4_22218_22608414	NC_021161.1	Ca_kabuli_chr02	22608414	AA	GG	1946757379
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SNP_P4_22220_22608439	NC_021161.1	Ca_kabuli_chr02	22608439	TT	CC	1946757383
SNP_P4_22221_22643815	NC_021161.1	Ca_kabuli_chr02	22643815	TT	AA	1946757385
SNP_P4_22222_22643824	NC_021161.1	Ca_kabuli_chr02	22643824	TT	AA	1946757387
SNP_P4_22223_22643851	NC_021161.1	Ca_kabuli_chr02	22643851	AA	GG	1946757389
SNP_P4_22224_22643930	NC_021161.1	Ca_kabuli_chr02	22643930	CC	TT	1946757391
SNP_P4_22225_22643968	NC_021161.1	Ca_kabuli_chr02	22643968	CC	TT	1946757394
SNP_P4_22226_22643977	NC_021161.1	Ca_kabuli_chr02	22643977	GG	TT	1946757396
SNP_P4_22227_22643995	NC_021161.1	Ca_kabuli_chr02	22643995	TT	CC	1946757398
SNP_P4_22228_22643998	NC_021161.1	Ca_kabuli_chr02	22643998	TT	CC	1946757400
SNP_P4_22229_22644007	NC_021161.1	Ca_kabuli_chr02	22644007	AA	TT	1946757402
SNP_P4_22230_22644177	NC_021161.1	Ca_kabuli_chr02	22644177	AA	GG	1946757404
SNP_P4_22231_22644231	NC_021161.1	Ca_kabuli_chr02	22644231	AA	GG	1946757406
SNP_P4_22232_22644238	NC_021161.1	Ca_kabuli_chr02	22644238	TT	GG	1946757408
SNP_P4_22233_22644358	NC_021161.1	Ca_kabuli_chr02	22644358	CC	TT	1946757410
SNP_P4_22234_22644374	NC_021161.1	Ca_kabuli_chr02	22644374	TT	CC	1946757412

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_22236_22644431	NC_021161.1	Ca_kabuli_chr02	22644431	AA	GG	1946757416
SNP_P4_22237_22650562	NC_021161.1	Ca_kabuli_chr02	22650562	CC	TT	1946757418
SNP_P4_22238_22650687	NC_021161.1	Ca_kabuli_chr02	22650687	AA	GG	1946757420
SNP_P4_22239_22650798	NC_021161.1	Ca_kabuli_chr02	22650798	AA	GG	1946757422
SNP_P4_22240_22650848	NC_021161.1	Ca_kabuli_chr02	22650848	CC	TT	1946757424
SNP_P4_22241_22651501	NC_021161.1	Ca_kabuli_chr02	22651501	CC	AA	1946757426
SNP_P4_22242_22651843	NC_021161.1	Ca_kabuli_chr02	22651843	TT	CC	1946757428
SNP_P4_22243_22651968	NC_021161.1	Ca_kabuli_chr02	22651968	TT	GG	1946757430
SNP_P4_22244_22651977	NC_021161.1	Ca_kabuli_chr02	22651977	AA	CC	1946757443
SNP_P4_22245_22652010	NC_021161.1	Ca_kabuli_chr02	22652010	CC	TT	1946757454
SNP_P4_22246_22652039	NC_021161.1	Ca_kabuli_chr02	22652039	GG	TT	1946757461
SNP_P4_22247_22665556	NC_021161.1	Ca_kabuli_chr02	22665556	GG	AA	1946757467
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SNP_P4_22249_22667693	NC_021161.1	Ca_kabuli_chr02	22667693	TT	AA	1946757479
SNP_P4_22250_22667696	NC_021161.1	Ca_kabuli_chr02	22667696	TT	CC	1946757486
SNP_P4_22251_22667707	NC_021161.1	Ca_kabuli_chr02	22667707	GG	TT	1946757492
SNP_P4_22252_22667756	NC_021161.1	Ca_kabuli_chr02	22667756	TT	CC	1946757501
SNP_P4_22253_22667783	NC_021161.1	Ca_kabuli_chr02	22667783	TT	CC	1946757506
SNP_P4_22254_22668068	NC_021161.1	Ca_kabuli_chr02	22668068	TT	CC	1946757508
SNP_P4_22255_22676979	NC_021161.1	Ca_kabuli_chr02	22676979	CC	TT	1946757514
SNP_P4_22256_22681889	NC_021161.1	Ca_kabuli_chr02	22681889	GG	TT	1946757520
SNP_P4_22257_22681899	NC_021161.1	Ca_kabuli_chr02	22681899	GG	AA	1946757523
SNP_P4_22258_22748904	NC_021161.1	Ca_kabuli_chr02	22748904	GG	TT	1946757525
SNP_P4_22259_22749304	NC_021161.1	Ca_kabuli_chr02	22749304	CC	TT	1946757530
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SNP_P4_22261_22749314	NC_021161.1	Ca_kabuli_chr02	22749314	GG	AA	1946757540
SNP_P4_22262_22749317	NC_021161.1	Ca_kabuli_chr02	22749317	GG	AA	1946757543
SNP_P4_22263_22749340	NC_021161.1	Ca_kabuli_chr02	22749340	GG	AA	1946757545
SNP_P4_22264_22749381	NC_021161.1	Ca_kabuli_chr02	22749381	AA	GG	1946757554
SNP_P4_22265_22749410	NC_021161.1	Ca_kabuli_chr02	22749410	TT	CC	1946757556
SNP_P4_22266_22749428	NC_021161.1	Ca_kabuli_chr02	22749428	GG	AA	1946757560
SNP_P4_22267_22749453	NC_021161.1	Ca_kabuli_chr02	22749453	TT	GG	1946757562
SNP_P4_22268_22749469	NC_021161.1	Ca_kabuli_chr02	22749469	TT	GG	1946757564
SNP_P4_22269_22749528	NC_021161.1	Ca_kabuli_chr02	22749528	GG	AA	1946757566
SNP_P4_22270_22749546	NC_021161.1	Ca_kabuli_chr02	22749546	GG	AA	1946757568
SNP_P4_22271_22749566	NC_021161.1	Ca_kabuli_chr02	22749566	TT	AA	1946757570
SNP_P4_22272_22749568	NC_021161.1	Ca_kabuli_chr02	22749568	GG	AA	1946757572
SNP_P4_22273_22749984	NC_021161.1	Ca_kabuli_chr02	22749984	AA	GG	1946757574
SNP_P4_22274_22750344	NC_021161.1	Ca_kabuli_chr02	22750344	GG	AA	1946757576
SNP_P4_22275_22750367	NC_021161.1	Ca_kabuli_chr02	22750367	CC	TT	1946757579
SNP_P4_22276_22750462	NC_021161.1	Ca_kabuli_chr02	22750462	AA	GG	1946757581

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_22278_22755943	NC_021161.1	Ca_kabuli_chr02	22755943	TT	AA	1946757585
SNP_P4_22279_22778081	NC_021161.1	Ca_kabuli_chr02	22778081	AA	GG	1946757587
SNP_P4_22280_22778142	NC_021161.1	Ca_kabuli_chr02	22778142	GG	TT	1946757589
SNP_P4_22281_22778157	NC_021161.1	Ca_kabuli_chr02	22778157	GG	TT	1946757591
SNP_P4_22282_22778159	NC_021161.1	Ca_kabuli_chr02	22778159	AA	GG	1946757594
SNP_P4_22283_22778400	NC_021161.1	Ca_kabuli_chr02	22778400	AA	GG	1946757596
SNP_P4_22284_22778414	NC_021161.1	Ca_kabuli_chr02	22778414	TT	CC	1946757598
SNP_P4_22285_22778472	NC_021161.1	Ca_kabuli_chr02	22778472	AA	GG	1946757600
SNP_P4_22286_22779186	NC_021161.1	Ca_kabuli_chr02	22779186	AA	GG	1946757602
SNP_P4_22287_22779205	NC_021161.1	Ca_kabuli_chr02	22779205	TT	CC	1946757604
SNP_P4_22288_22779399	NC_021161.1	Ca_kabuli_chr02	22779399	TT	CC	1946757606
SNP_P4_22289_22779420	NC_021161.1	Ca_kabuli_chr02	22779420	GG	AA	1946757608
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SNP_P4_22291_22779491	NC_021161.1	Ca_kabuli_chr02	22779491	AA	CC	1946757612
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SNP_P4_22294_22779592	NC_021161.1	Ca_kabuli_chr02	22779592	GG	AA	1946757619
SNP_P4_22295_22779808	NC_021161.1	Ca_kabuli_chr02	22779808	GG	TT	1946757622
SNP_P4_22296_22779837	NC_021161.1	Ca_kabuli_chr02	22779837	CC	AA	1946757624
SNP_P4_22297_22779960	NC_021161.1	Ca_kabuli_chr02	22779960	AA	TT	1946757626
SNP_P4_22298_22780244	NC_021161.1	Ca_kabuli_chr02	22780244	AA	GG	1946757628
SNP_P4_22299_22782712	NC_021161.1	Ca_kabuli_chr02	22782712	TT	AA	1946757630
SNP_P4_22300_22788880	NC_021161.1	Ca_kabuli_chr02	22788880	CC	TT	1946757632
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SNP_P4_22302_22805946	NC_021161.1	Ca_kabuli_chr02	22805946	TT	AA	1946757639
SNP_P4_22303_22805949	NC_021161.1	Ca_kabuli_chr02	22805949	AA	GG	1946757642
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SNP_P4_22305_22812419	NC_021161.1	Ca_kabuli_chr02	22812419	CC	TT	1946757648
SNP_P4_22306_22812504	NC_021161.1	Ca_kabuli_chr02	22812504	TT	CC	1946757650
SNP_P4_22308_22812698	NC_021161.1	Ca_kabuli_chr02	22812698	GG	AA	1946757653
SNP_P4_22309_22812705	NC_021161.1	Ca_kabuli_chr02	22812705	CC	AA	1946757657
SNP_P4_22310_22827651	NC_021161.1	Ca_kabuli_chr02	22827651	TT	CC	1946757659
SNP_P4_22311_22828319	NC_021161.1	Ca_kabuli_chr02	22828319	CC	TT	1946757662
SNP_P4_22312_22864863	NC_021161.1	Ca_kabuli_chr02	22864863	AA	GG	1946757665
SNP_P4_22313_22897048	NC_021161.1	Ca_kabuli_chr02	22897048	GG	AA	1946757668
SNP_P4_22314_22897248	NC_021161.1	Ca_kabuli_chr02	22897248	AA	GG	1946757672
SNP_P4_22315_22911370	NC_021161.1	Ca_kabuli_chr02	22911370	CC	TT	1946757675
SNP_P4_22316_22915278	NC_021161.1	Ca_kabuli_chr02	22915278	TT	CC	1946757677
SNP_P4_22318_22952400	NC_021161.1	Ca_kabuli_chr02	22952400	AA	GG	1946757680
SNP_P4_22319_22959590	NC_021161.1	Ca_kabuli_chr02	22959590	AA	GG	1946757683
SNP_P4_22320_22959972	NC_021161.1	Ca_kabuli_chr02	22959972	AA	GG	1946757688

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_22322_23017642	NC_021161.1	Ca_kabuli_chr02	23017642	AA	GG	1946757693
SNP_P4_22323_23017663	NC_021161.1	Ca_kabuli_chr02	23017663	CC	GG	1946757697
SNP_P4_22324_23023990	NC_021161.1	Ca_kabuli_chr02	23023990	AA	CC	1946757699
SNP_P4_22326_23041216	NC_021161.1	Ca_kabuli_chr02	23041216	GG	AA	1946757703
SNP_P4_22327_23041233	NC_021161.1	Ca_kabuli_chr02	23041233	CC	AA	1946757705
SNP_P4_22328_23041249	NC_021161.1	Ca_kabuli_chr02	23041249	GG	AA	1946757709
SNP_P4_22329_23041316	NC_021161.1	Ca_kabuli_chr02	23041316	AA	TT	1946757712
SNP_P4_22330_23041322	NC_021161.1	Ca_kabuli_chr02	23041322	CC	TT	1946757714
SNP_P4_22331_23041325	NC_021161.1	Ca_kabuli_chr02	23041325	AA	GG	1946757717
SNP_P4_22332_23041337	NC_021161.1	Ca_kabuli_chr02	23041337	CC	TT	1946757721
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SNP_P4_22335_23044207	NC_021161.1	Ca_kabuli_chr02	23044207	CC	TT	1946757727
SNP_P4_22337_23066105	NC_021161.1	Ca_kabuli_chr02	23066105	GG	AA	1946757729
SNP_P4_22338_23067595	NC_021161.1	Ca_kabuli_chr02	23067595	CC	TT	1946757731
SNP_P4_22339_23067699	NC_021161.1	Ca_kabuli_chr02	23067699	CC	TT	1946757733
SNP_P4_22340_23067708	NC_021161.1	Ca_kabuli_chr02	23067708	AA	TT	1946757735
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SNP_P4_22343_23154234	NC_021161.1	Ca_kabuli_chr02	23154234	AA	TT	1946757741
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SNP_P4_22349_23155573	NC_021161.1	Ca_kabuli_chr02	23155573	AA	TT	1946757752
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SNP_P4_22351_23155919	NC_021161.1	Ca_kabuli_chr02	23155919	CC	TT	1946757757
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SNP_P4_22354_23192817	NC_021161.1	Ca_kabuli_chr02	23192817	TT	CC	1946757779
SNP_P4_22355_23192851	NC_021161.1	Ca_kabuli_chr02	23192851	TT	CC	1946757785
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SNP_P4_22357_23192938	NC_021161.1	Ca_kabuli_chr02	23192938	CC	TT	1946757798
SNP_P4_22358_23192976	NC_021161.1	Ca_kabuli_chr02	23192976	AA	GG	1946757804
SNP_P4_22359_23193015	NC_021161.1	Ca_kabuli_chr02	23193015	AA	GG	1946757806
SNP_P4_22360_23193053	NC_021161.1	Ca_kabuli_chr02	23193053	TT	AA	1946757808
SNP_P4_22362_23199590	NC_021161.1	Ca_kabuli_chr02	23199590	TT	AA	1946757818
SNP_P4_22363_23199868	NC_021161.1	Ca_kabuli_chr02	23199868	GG	CC	1946757825
SNP_P4_22364_23213504	NC_021161.1	Ca_kabuli_chr02	23213504	TT	CC	1946757830
SNP_P4_22366_23251986	NC_021161.1	Ca_kabuli_chr02	23251986	CC	TT	1946757838
SNP_P4_22367_23251990	NC_021161.1	Ca_kabuli_chr02	23251990	AA	CC	1946757843

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_22370_23253135	NC_021161.1	Ca_kabuli_chr02	23253135	CC	TT	1946757856
SNP_P4_22371_23253178	NC_021161.1	Ca_kabuli_chr02	23253178	GG	TT	1946757864
SNP_P4_22372_23256151	NC_021161.1	Ca_kabuli_chr02	23256151	AA	GG	1946757867
SNP_P4_22373_23260170	NC_021161.1	Ca_kabuli_chr02	23260170	GG	TT	1946757875
SNP_P4_22374_23356695	NC_021161.1	Ca_kabuli_chr02	23356695	AA	GG	1946757877
SNP_P4_22375_23356713	NC_021161.1	Ca_kabuli_chr02	23356713	AA	GG	1946757884
SNP_P4_22376_23356734	NC_021161.1	Ca_kabuli_chr02	23356734	AA	CC	1946757888
SNP_P4_22378_23361384	NC_021161.1	Ca_kabuli_chr02	23361384	AA	GG	1946757892
SNP_P4_22379_23362323	NC_021161.1	Ca_kabuli_chr02	23362323	CC	TT	1946757894
SNP_P4_22380_23362335	NC_021161.1	Ca_kabuli_chr02	23362335	TT	CC	1946757896
SNP_P4_22381_23362376	NC_021161.1	Ca_kabuli_chr02	23362376	AA	GG	1946757898
SNP_P4_22382_23362429	NC_021161.1	Ca_kabuli_chr02	23362429	AA	GG	1946757900
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SNP_P4_22387_23371276	NC_021161.1	Ca_kabuli_chr02	23371276	CC	TT	1946757910
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SNP_P4_22390_23371404	NC_021161.1	Ca_kabuli_chr02	23371404	AA	GG	1946757916
SNP_P4_22391_23371455	NC_021161.1	Ca_kabuli_chr02	23371455	TT	CC	1946757918
SNP_P4_22392_23371798	NC_021161.1	Ca_kabuli_chr02	23371798	AA	GG	1946757920
SNP_P4_22393_23371861	NC_021161.1	Ca_kabuli_chr02	23371861	CC	TT	1946757922
SNP_P4_22394_23400975	NC_021161.1	Ca_kabuli_chr02	23400975	GG	AA	1946757924
SNP_P4_22395_23400995	NC_021161.1	Ca_kabuli_chr02	23400995	TT	AA	1946757926
SNP_P4_22396_23401090	NC_021161.1	Ca_kabuli_chr02	23401090	TT	GG	1946757928
SNP_P4_22397_23447774	NC_021161.1	Ca_kabuli_chr02	23447774	GG	CC	1946757930
SNP_P4_22398_23447788	NC_021161.1	Ca_kabuli_chr02	23447788	GG	AA	1946757932
SNP_P4_22402_23513867	NC_021161.1	Ca_kabuli_chr02	23513867	GG	AA	1946757934
SNP_P4_22403_23514401	NC_021161.1	Ca_kabuli_chr02	23514401	TT	AA	1946757936
SNP_P4_22404_23544950	NC_021161.1	Ca_kabuli_chr02	23544950	TT	CC	1946757938
SNP_P4_22405_23545017	NC_021161.1	Ca_kabuli_chr02	23545017	TT	CC	1946757940
SNP_P4_22406_23545023	NC_021161.1	Ca_kabuli_chr02	23545023	AA	GG	1946757942
SNP_P4_22407_23545059	NC_021161.1	Ca_kabuli_chr02	23545059	TT	AA	1946757944
SNP_P4_22408_23545121	NC_021161.1	Ca_kabuli_chr02	23545121	AA	CC	1946757946
SNP_P4_22409_23545134	NC_021161.1	Ca_kabuli_chr02	23545134	TT	CC	1946757948
SNP_P4_22410_23545143	NC_021161.1	Ca_kabuli_chr02	23545143	AA	CC	1946757950
SNP_P4_22411_23545147	NC_021161.1	Ca_kabuli_chr02	23545147	GG	AA	1946757952
SNP_P4_22412_23545286	NC_021161.1	Ca_kabuli_chr02	23545286	TT	AA	1946757954
SNP_P4_22413_23547629	NC_021161.1	Ca_kabuli_chr02	23547629	AA	TT	1946757957

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_22415_23572983	NC_021161.1	Ca_kabuli_chr02	23572983	AA	GG	1946757961
SNP_P4_22416_23573003	NC_021161.1	Ca_kabuli_chr02	23573003	AA	GG	1946757975
SNP_P4_22417_23579867	NC_021161.1	Ca_kabuli_chr02	23579867	TT	GG	1946757981
SNP_P4_22418_23615068	NC_021161.1	Ca_kabuli_chr02	23615068	AA	GG	1946757990
SNP_P4_22419_23624232	NC_021161.1	Ca_kabuli_chr02	23624232	TT	CC	1946757995
SNP_P4_22420_23624316	NC_021161.1	Ca_kabuli_chr02	23624316	GG	AA	1946758003
SNP_P4_22421_23624340	NC_021161.1	Ca_kabuli_chr02	23624340	TT	AA	1946758009
SNP_P4_22422_23624347	NC_021161.1	Ca_kabuli_chr02	23624347	GG	TT	1946758011
SNP_P4_22423_23624352	NC_021161.1	Ca_kabuli_chr02	23624352	CC	TT	1946758014
SNP_P4_22424_23624369	NC_021161.1	Ca_kabuli_chr02	23624369	TT	AA	1946758022
SNP_P4_22425_23624373	NC_021161.1	Ca_kabuli_chr02	23624373	TT	GG	1946758031
SNP_P4_22426_23624376	NC_021161.1	Ca_kabuli_chr02	23624376	AA	GG	1946758035
SNP_P4_22427_23624385	NC_021161.1	Ca_kabuli_chr02	23624385	AA	GG	1946758044
SNP_P4_22428_23624388	NC_021161.1	Ca_kabuli_chr02	23624388	GG	CC	1946758049
SNP_P4_22429_23624393	NC_021161.1	Ca_kabuli_chr02	23624393	AA	GG	1946758051
SNP_P4_22430_23624400	NC_021161.1	Ca_kabuli_chr02	23624400	TT	CC	1946758053
SNP_P4_22431_23624409	NC_021161.1	Ca_kabuli_chr02	23624409	AA	GG	1946758055
SNP_P4_22432_23624519	NC_021161.1	Ca_kabuli_chr02	23624519	AA	TT	1946758057
SNP_P4_22433_23624536	NC_021161.1	Ca_kabuli_chr02	23624536	CC	TT	1946758065
SNP_P4_22434_23624570	NC_021161.1	Ca_kabuli_chr02	23624570	GG	AA	1946758068
SNP_P4_22435_23626627	NC_021161.1	Ca_kabuli_chr02	23626627	TT	AA	1946758070
SNP_P4_22436_23627204	NC_021161.1	Ca_kabuli_chr02	23627204	TT	CC	1946758072
SNP_P4_22437_23627207	NC_021161.1	Ca_kabuli_chr02	23627207	TT	CC	1946758074
SNP_P4_22438_23627241	NC_021161.1	Ca_kabuli_chr02	23627241	AA	CC	1946758076
SNP_P4_22439_23627538	NC_021161.1	Ca_kabuli_chr02	23627538	AA	GG	1946758079
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SNP_P4_22441_23627644	NC_021161.1	Ca_kabuli_chr02	23627644	CC	TT	1946758083
SNP_P4_22442_23627645	NC_021161.1	Ca_kabuli_chr02	23627645	AA	GG	1946758085
SNP_P4_22443_23628025	NC_021161.1	Ca_kabuli_chr02	23628025	AA	TT	1946758087
SNP_P4_22444_23695459	NC_021161.1	Ca_kabuli_chr02	23695459	TT	CC	1946758089
SNP_P4_22445_23695520	NC_021161.1	Ca_kabuli_chr02	23695520	AA	CC	1946758091
SNP_P4_22446_23695521	NC_021161.1	Ca_kabuli_chr02	23695521	GG	AA	1946758093
SNP_P4_22447_23695552	NC_021161.1	Ca_kabuli_chr02	23695552	TT	CC	1946758096
SNP_P4_22448_23695671	NC_021161.1	Ca_kabuli_chr02	23695671	AA	CC	1946758098
SNP_P4_22450_23753103	NC_021161.1	Ca_kabuli_chr02	23753103	CC	TT	1946758100
SNP_P4_22451_23760725	NC_021161.1	Ca_kabuli_chr02	23760725	CC	TT	1946758102
SNP_P4_22452_23760728	NC_021161.1	Ca_kabuli_chr02	23760728	AA	TT	1946758104
SNP_P4_22453_23760738	NC_021161.1	Ca_kabuli_chr02	23760738	CC	TT	1946758106
SNP_P4_22454_23760742	NC_021161.1	Ca_kabuli_chr02	23760742	CC	TT	1946758109
SNP_P4_22455_23761677	NC_021161.1	Ca_kabuli_chr02	23761677	AA	GG	1946758111
SNP_P4_22456_23765910	NC_021161.1	Ca_kabuli_chr02	23765910	TT	AA	1946758113

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_22459_23766130	NC_021161.1	Ca_kabuli_chr02	23766130	AA	CC	1946758119
SNP_P4_22460_23766146	NC_021161.1	Ca_kabuli_chr02	23766146	AA	TT	1946758121
SNP_P4_22461_23766199	NC_021161.1	Ca_kabuli_chr02	23766199	CC	AA	1946758123
SNP_P4_22462_23776182	NC_021161.1	Ca_kabuli_chr02	23776182	AA	TT	1946758125
SNP_P4_22463_23785515	NC_021161.1	Ca_kabuli_chr02	23785515	TT	CC	1946758127
SNP_P4_22464_23785522	NC_021161.1	Ca_kabuli_chr02	23785522	TT	CC	1946758129
SNP_P4_22466_23794272	NC_021161.1	Ca_kabuli_chr02	23794272	TT	CC	1946758131
SNP_P4_22467_23845451	NC_021161.1	Ca_kabuli_chr02	23845451	GG	TT	1946758133
SNP_P4_22468_23886665	NC_021161.1	Ca_kabuli_chr02	23886665	AA	GG	1946758135
SNP_P4_22470_23895747	NC_021161.1	Ca_kabuli_chr02	23895747	GG	AA	1946758137
SNP_P4_22471_23897840	NC_021161.1	Ca_kabuli_chr02	23897840	TT	GG	1946758139
SNP_P4_22472_23906069	NC_021161.1	Ca_kabuli_chr02	23906069	TT	AA	1946758141
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SNP_P4_22474_23911358	NC_021161.1	Ca_kabuli_chr02	23911358	CC	TT	1946758145
SNP_P4_22475_23912054	NC_021161.1	Ca_kabuli_chr02	23912054	AA	CC	1946758147
SNP_P4_22476_23912417	NC_021161.1	Ca_kabuli_chr02	23912417	TT	CC	1946758149
SNP_P4_22477_23912432	NC_021161.1	Ca_kabuli_chr02	23912432	CC	TT	1946758151
SNP_P4_22478_23912510	NC_021161.1	Ca_kabuli_chr02	23912510	AA	GG	1946758153
SNP_P4_22479_23913523	NC_021161.1	Ca_kabuli_chr02	23913523	TT	CC	1946758155
SNP_P4_22480_23913545	NC_021161.1	Ca_kabuli_chr02	23913545	CC	TT	1946758157
SNP_P4_22481_23913682	NC_021161.1	Ca_kabuli_chr02	23913682	TT	CC	1946758159
SNP_P4_22482_23925718	NC_021161.1	Ca_kabuli_chr02	23925718	AA	CC	1946758161
SNP_P4_22483_23925725	NC_021161.1	Ca_kabuli_chr02	23925725	CC	TT	1946758163
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SNP_P4_22485_23926393	NC_021161.1	Ca_kabuli_chr02	23926393	GG	AA	1946758166
SNP_P4_22486_23926501	NC_021161.1	Ca_kabuli_chr02	23926501	GG	CC	1946758168
SNP_P4_22487_23926521	NC_021161.1	Ca_kabuli_chr02	23926521	GG	AA	1946758170
SNP_P4_22488_23926543	NC_021161.1	Ca_kabuli_chr02	23926543	AA	TT	1946758172
SNP_P4_22489_23926769	NC_021161.1	Ca_kabuli_chr02	23926769	AA	GG	1946758174
SNP_P4_22490_23926813	NC_021161.1	Ca_kabuli_chr02	23926813	TT	GG	1946758176
SNP_P4_22491_23926996	NC_021161.1	Ca_kabuli_chr02	23926996	GG	CC	1946758178
SNP_P4_22492_23927105	NC_021161.1	Ca_kabuli_chr02	23927105	AA	GG	1946758180
SNP_P4_22493_23927240	NC_021161.1	Ca_kabuli_chr02	23927240	GG	AA	1946758182
SNP_P4_22494_23931668	NC_021161.1	Ca_kabuli_chr02	23931668	GG	AA	1946758184
SNP_P4_22495_23932205	NC_021161.1	Ca_kabuli_chr02	23932205	TT	GG	1946758186
SNP_P4_22497_23933608	NC_021161.1	Ca_kabuli_chr02	23933608	GG	CC	1946758188
SNP_P4_22498_23934055	NC_021161.1	Ca_kabuli_chr02	23934055	CC	GG	1946758190
SNP_P4_22499_23934184	NC_021161.1	Ca_kabuli_chr02	23934184	AA	GG	1946758193
SNP_P4_22500_23934307	NC_021161.1	Ca_kabuli_chr02	23934307	TT	CC	1946758196
SNP_P4_22501_23973945	NC_021161.1	Ca_kabuli_chr02	23973945	TT	AA	1946758198

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_22505_23990169	NC_021161.1	Ca_kabuli_chr02	23990169	CC	TT	1946758203
SNP_P4_22507_23991061	NC_021161.1	Ca_kabuli_chr02	23991061	GG	AA	1946758206
SNP_P4_22508_24023990	NC_021161.1	Ca_kabuli_chr02	24023990	GG	AA	1946758209
SNP_P4_22509_24047683	NC_021161.1	Ca_kabuli_chr02	24047683	CC	AA	1946758211
SNP_P4_22511_24080762	NC_021161.1	Ca_kabuli_chr02	24080762	GG	AA	1946758214
SNP_P4_22512_24104241	NC_021161.1	Ca_kabuli_chr02	24104241	AA	GG	1946758216
SNP_P4_22514_24140145	NC_021161.1	Ca_kabuli_chr02	24140145	AA	TT	1946758219
SNP_P4_22515_24150608	NC_021161.1	Ca_kabuli_chr02	24150608	TT	CC	1946758221
SNP_P4_22516_24150698	NC_021161.1	Ca_kabuli_chr02	24150698	TT	CC	1946758223
SNP_P4_22517_24151077	NC_021161.1	Ca_kabuli_chr02	24151077	GG	TT	1946758226
SNP_P4_22518_24151165	NC_021161.1	Ca_kabuli_chr02	24151165	TT	CC	1946758228
SNP_P4_22519_24151209	NC_021161.1	Ca_kabuli_chr02	24151209	CC	TT	1946758230
SNP_P4_22520_24151257	NC_021161.1	Ca_kabuli_chr02	24151257	GG	AA	1946758232
SNP_P4_22521_24151519	NC_021161.1	Ca_kabuli_chr02	24151519	TT	CC	1946758234
SNP_P4_22522_24151673	NC_021161.1	Ca_kabuli_chr02	24151673	AA	GG	1946758237
SNP_P4_22523_24151922	NC_021161.1	Ca_kabuli_chr02	24151922	AA	GG	1946758239
SNP_P4_22524_24151956	NC_021161.1	Ca_kabuli_chr02	24151956	CC	TT	1946758241
SNP_P4_22525_24171933	NC_021161.1	Ca_kabuli_chr02	24171933	AA	GG	1946758243
SNP_P4_22526_24227457	NC_021161.1	Ca_kabuli_chr02	24227457	CC	TT	1946758245
SNP_P4_22527_24238621	NC_021161.1	Ca_kabuli_chr02	24238621	AA	TT	1946758247
SNP_P4_22528_24241593	NC_021161.1	Ca_kabuli_chr02	24241593	AA	TT	1946758250
SNP_P4_22529_24243889	NC_021161.1	Ca_kabuli_chr02	24243889	CC	TT	1946758252
SNP_P4_22531_24251742	NC_021161.1	Ca_kabuli_chr02	24251742	GG	CC	1946758255
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SNP_P4_22536_24252119	NC_021161.1	Ca_kabuli_chr02	24252119	TT	CC	1946758265
SNP_P4_22537_24252122	NC_021161.1	Ca_kabuli_chr02	24252122	CC	TT	1946758267
SNP_P4_22539_24252154	NC_021161.1	Ca_kabuli_chr02	24252154	CC	TT	1946758269
SNP_P4_22540_24252157	NC_021161.1	Ca_kabuli_chr02	24252157	TT	CC	1946758272
SNP_P4_22541_24252159	NC_021161.1	Ca_kabuli_chr02	24252159	AA	CC	1946758274
SNP_P4_22542_24252193	NC_021161.1	Ca_kabuli_chr02	24252193	TT	CC	1946758277
SNP_P4_22543_24252353	NC_021161.1	Ca_kabuli_chr02	24252353	AA	GG	1946758279
SNP_P4_22544_24256894	NC_021161.1	Ca_kabuli_chr02	24256894	TT	CC	1946758282
SNP_P4_22545_24257234	NC_021161.1	Ca_kabuli_chr02	24257234	TT	CC	1946758284
SNP_P4_22546_24257278	NC_021161.1	Ca_kabuli_chr02	24257278	AA	GG	1946758286
SNP_P4_22547_24257412	NC_021161.1	Ca_kabuli_chr02	24257412	AA	TT	1946758288
SNP_P4_22548_24259556	NC_021161.1	Ca_kabuli_chr02	24259556	CC	TT	1946758290
SNP_P4_22549_24259679	NC_021161.1	Ca_kabuli_chr02	24259679	AA	CC	1946758292
SNP_P4_22550_24259686	NC_021161.1	Ca_kabuli_chr02	24259686	TT	AA	1946758294

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_22552_24259764	NC_021161.1	Ca_kabuli_chr02	24259764	TT	CC	1946758299
SNP_P4_22553_24259766	NC_021161.1	Ca_kabuli_chr02	24259766	TT	CC	1946758302
SNP_P4_22554_24259775	NC_021161.1	Ca_kabuli_chr02	24259775	AA	TT	1946758304
SNP_P4_22555_24259802	NC_021161.1	Ca_kabuli_chr02	24259802	GG	TT	1946758307
SNP_P4_22556_24260040	NC_021161.1	Ca_kabuli_chr02	24260040	AA	GG	1946758309
SNP_P4_22557_24260043	NC_021161.1	Ca_kabuli_chr02	24260043	CC	TT	1946758312
SNP_P4_22558_24309592	NC_021161.1	Ca_kabuli_chr02	24309592	CC	TT	1946758314
SNP_P4_22559_24309690	NC_021161.1	Ca_kabuli_chr02	24309690	GG	TT	1946758316
SNP_P4_22560_24309691	NC_021161.1	Ca_kabuli_chr02	24309691	TT	CC	1946758318
SNP_P4_22561_24309694	NC_021161.1	Ca_kabuli_chr02	24309694	TT	CC	1946758320
SNP_P4_22562_24309738	NC_021161.1	Ca_kabuli_chr02	24309738	AA	GG	1946758323
SNP_P4_22563_24309751	NC_021161.1	Ca_kabuli_chr02	24309751	AA	CC	1946758325
SNP_P4_22564_24309775	NC_021161.1	Ca_kabuli_chr02	24309775	AA	CC	1946758328
SNP_P4_22565_24309783	NC_021161.1	Ca_kabuli_chr02	24309783	AA	TT	1946758331
SNP_P4_22566_24309951	NC_021161.1	Ca_kabuli_chr02	24309951	TT	CC	1946758333
SNP_P4_22567_24310013	NC_021161.1	Ca_kabuli_chr02	24310013	TT	CC	1946758335
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SNP_P4_22569_24310033	NC_021161.1	Ca_kabuli_chr02	24310033	GG	CC	1946758339
SNP_P4_22570_24310124	NC_021161.1	Ca_kabuli_chr02	24310124	CC	AA	1946758342
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SNP_P4_22572_24310193	NC_021161.1	Ca_kabuli_chr02	24310193	GG	AA	1946758347
SNP_P4_22573_24310198	NC_021161.1	Ca_kabuli_chr02	24310198	CC	TT	1946758349
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SNP_P4_22583_24391986	NC_021161.1	Ca_kabuli_chr02	24391986	CC	TT	1946758370
SNP_P4_22584_24392065	NC_021161.1	Ca_kabuli_chr02	24392065	AA	GG	1946758372
SNP_P4_22585_24392078	NC_021161.1	Ca_kabuli_chr02	24392078	CC	TT	1946758374
SNP_P4_22587_24393597	NC_021161.1	Ca_kabuli_chr02	24393597	AA	GG	1946758376
SNP_P4_22589_24426829	NC_021161.1	Ca_kabuli_chr02	24426829	CC	TT	1946758378
SNP_P4_22590_24426831	NC_021161.1	Ca_kabuli_chr02	24426831	TT	AA	1946758381
SNP_P4_22591_24426840	NC_021161.1	Ca_kabuli_chr02	24426840	TT	CC	1946758383
SNP_P4_22592_24426842	NC_021161.1	Ca_kabuli_chr02	24426842	GG	AA	1946758386
SNP_P4_22593_24433676	NC_021161.1	Ca_kabuli_chr02	24433676	TT	AA	1946758388
SNP_P4_22594_24433899	NC_021161.1	Ca_kabuli_chr02	24433899	TT	AA	1946758390
SNP_P4_22595_24433935	NC_021161.1	Ca_kabuli_chr02	24433935	TT	CC	1946758392

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_22597_24442699	NC_021161.1	Ca_kabuli_chr02	24442699	TT	AA	1946758396
SNP_P4_22598_24442737	NC_021161.1	Ca_kabuli_chr02	24442737	AA	GG	1946758399
SNP_P4_22599_24442747	NC_021161.1	Ca_kabuli_chr02	24442747	CC	AA	1946758402
SNP_P4_22600_24444947	NC_021161.1	Ca_kabuli_chr02	24444947	AA	GG	1946758404
SNP_P4_22601_24447901	NC_021161.1	Ca_kabuli_chr02	24447901	AA	GG	1946758406
SNP_P4_22602_24454965	NC_021161.1	Ca_kabuli_chr02	24454965	AA	GG	1946758408
SNP_P4_22603_24454976	NC_021161.1	Ca_kabuli_chr02	24454976	CC	AA	1946758410
SNP_P4_22604_24454995	NC_021161.1	Ca_kabuli_chr02	24454995	GG	CC	1946758412
SNP_P4_22605_24454996	NC_021161.1	Ca_kabuli_chr02	24454996	CC	TT	1946758414
SNP_P4_22606_24455010	NC_021161.1	Ca_kabuli_chr02	24455010	TT	CC	1946758417
SNP_P4_22607_24455243	NC_021161.1	Ca_kabuli_chr02	24455243	CC	TT	1946758419
SNP_P4_22608_24455319	NC_021161.1	Ca_kabuli_chr02	24455319	AA	GG	1946758422
SNP_P4_22609_24476920	NC_021161.1	Ca_kabuli_chr02	24476920	GG	AA	1946758424
SNP_P4_22610_24489640	NC_021161.1	Ca_kabuli_chr02	24489640	AA	GG	1946758426
SNP_P4_22611_24489698	NC_021161.1	Ca_kabuli_chr02	24489698	GG	AA	1946758428
SNP_P4_22612_24494897	NC_021161.1	Ca_kabuli_chr02	24494897	CC	TT	1946758430
SNP_P4_22614_24498249	NC_021161.1	Ca_kabuli_chr02	24498249	AA	GG	1946758432
SNP_P4_22615_24513033	NC_021161.1	Ca_kabuli_chr02	24513033	CC	AA	1946758434
SNP_P4_22617_24554219	NC_021161.1	Ca_kabuli_chr02	24554219	CC	TT	1946758436
SNP_P4_22618_24554228	NC_021161.1	Ca_kabuli_chr02	24554228	CC	TT	1946758438
SNP_P4_22619_24557188	NC_021161.1	Ca_kabuli_chr02	24557188	AA	CC	1946758440
SNP_P4_22620_24557191	NC_021161.1	Ca_kabuli_chr02	24557191	CC	TT	1946758442
SNP_P4_22621_24557233	NC_021161.1	Ca_kabuli_chr02	24557233	AA	GG	1946758443
SNP_P4_22622_24557267	NC_021161.1	Ca_kabuli_chr02	24557267	AA	GG	1946758445
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SNP_P4_22624_24557723	NC_021161.1	Ca_kabuli_chr02	24557723	TT	CC	1946758449
SNP_P4_22625_24570883	NC_021161.1	Ca_kabuli_chr02	24570883	TT	CC	1946758451
SNP_P4_22626_24570895	NC_021161.1	Ca_kabuli_chr02	24570895	CC	TT	1946758453
SNP_P4_22627_24574445	NC_021161.1	Ca_kabuli_chr02	24574445	CC	GG	1946758455
SNP_P4_22628_24574708	NC_021161.1	Ca_kabuli_chr02	24574708	TT	AA	1946758457
SNP_P4_22629_24575371	NC_021161.1	Ca_kabuli_chr02	24575371	TT	GG	1946758459
SNP_P4_22630_24575383	NC_021161.1	Ca_kabuli_chr02	24575383	TT	CC	1946758461
SNP_P4_22631_24575648	NC_021161.1	Ca_kabuli_chr02	24575648	CC	TT	1946758463
SNP_P4_22632_24575649	NC_021161.1	Ca_kabuli_chr02	24575649	AA	GG	1946758465
SNP_P4_22633_24575656	NC_021161.1	Ca_kabuli_chr02	24575656	GG	AA	1946758467
SNP_P4_22634_24575660	NC_021161.1	Ca_kabuli_chr02	24575660	CC	TT	1946758470
SNP_P4_22635_24575682	NC_021161.1	Ca_kabuli_chr02	24575682	GG	TT	1946758472
SNP_P4_22636_24575705	NC_021161.1	Ca_kabuli_chr02	24575705	TT	CC	1946758474
SNP_P4_22637_24577835	NC_021161.1	Ca_kabuli_chr02	24577835	AA	TT	1946758477
SNP_P4_22638_24577837	NC_021161.1	Ca_kabuli_chr02	24577837	AA	TT	1946758479
SNP_P4_22639_24597870	NC_021161.1	Ca_kabuli_chr02	24597870	TT	CC	1946758480

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_22642_24597940	NC_021161.1	Ca_kabuli_chr02	24597940	GG	AA	1946758482
SNP_P4_22643_24597954	NC_021161.1	Ca_kabuli_chr02	24597954	AA	GG	1946758483
SNP_P4_22644_24598012	NC_021161.1	Ca_kabuli_chr02	24598012	GG	AA	1946758484
SNP_P4_22645_24600407	NC_021161.1	Ca_kabuli_chr02	24600407	TT	CC	1946758485
SNP_P4_22646_24600444	NC_021161.1	Ca_kabuli_chr02	24600444	CC	AA	1946758486
SNP_P4_22647_24600712	NC_021161.1	Ca_kabuli_chr02	24600712	TT	CC	1946758487
SNP_P4_22648_24601123	NC_021161.1	Ca_kabuli_chr02	24601123	AA	GG	1946758488
SNP_P4_22649_24611571	NC_021161.1	Ca_kabuli_chr02	24611571	GG	AA	1946758489
SNP_P4_22650_24625421	NC_021161.1	Ca_kabuli_chr02	24625421	GG	AA	1946758490
SNP_P4_22651_24634128	NC_021161.1	Ca_kabuli_chr02	24634128	AA	GG	1946758491
SNP_P4_22652_24709295	NC_021161.1	Ca_kabuli_chr02	24709295	AA	GG	1946758492
SNP_P4_22653_24753817	NC_021161.1	Ca_kabuli_chr02	24753817	GG	AA	1946758493
SNP_P4_22654_24818269	NC_021161.1	Ca_kabuli_chr02	24818269	TT	CC	1946758494
SNP_P4_22655_24818302	NC_021161.1	Ca_kabuli_chr02	24818302	GG	CC	1946758495
SNP_P4_22656_24818309	NC_021161.1	Ca_kabuli_chr02	24818309	AA	GG	1946758497
SNP_P4_22657_24818341	NC_021161.1	Ca_kabuli_chr02	24818341	GG	AA	1946758499
SNP_P4_22658_24818354	NC_021161.1	Ca_kabuli_chr02	24818354	TT	GG	1946758501
SNP_P4_22659_24821083	NC_021161.1	Ca_kabuli_chr02	24821083	AA	TT	1946758503
SNP_P4_22660_24821099	NC_021161.1	Ca_kabuli_chr02	24821099	CC	AA	1946758505
SNP_P4_22661_24892976	NC_021161.1	Ca_kabuli_chr02	24892976	TT	GG	1946758507
SNP_P4_22662_24893923	NC_021161.1	Ca_kabuli_chr02	24893923	CC	AA	1946758509
SNP_P4_22663_24894055	NC_021161.1	Ca_kabuli_chr02	24894055	AA	GG	1946758512
SNP_P4_22664_24894092	NC_021161.1	Ca_kabuli_chr02	24894092	TT	AA	1946758514
SNP_P4_22665_24894093	NC_021161.1	Ca_kabuli_chr02	24894093	AA	GG	1946758516
SNP_P4_22666_24894104	NC_021161.1	Ca_kabuli_chr02	24894104	CC	GG	1946758518
SNP_P4_22667_24894105	NC_021161.1	Ca_kabuli_chr02	24894105	TT	AA	1946758520
SNP_P4_22668_24894115	NC_021161.1	Ca_kabuli_chr02	24894115	AA	GG	1946758522
SNP_P4_22669_24894128	NC_021161.1	Ca_kabuli_chr02	24894128	GG	AA	1946758525
SNP_P4_22670_24894181	NC_021161.1	Ca_kabuli_chr02	24894181	TT	CC	1946758527
SNP_P4_22671_24940445	NC_021161.1	Ca_kabuli_chr02	24940445	AA	TT	1946758529
SNP_P4_22672_24940478	NC_021161.1	Ca_kabuli_chr02	24940478	GG	TT	1946758531
SNP_P4_22673_24940499	NC_021161.1	Ca_kabuli_chr02	24940499	TT	GG	1946758533
SNP_P4_22674_24940505	NC_021161.1	Ca_kabuli_chr02	24940505	CC	TT	1946758535
SNP_P4_22675_24940543	NC_021161.1	Ca_kabuli_chr02	24940543	GG	AA	1946758537
SNP_P4_22676_24940602	NC_021161.1	Ca_kabuli_chr02	24940602	CC	TT	1946758539
SNP_P4_22677_24940609	NC_021161.1	Ca_kabuli_chr02	24940609	AA	GG	1946758541
SNP_P4_22678_24940736	NC_021161.1	Ca_kabuli_chr02	24940736	AA	GG	1946758543
SNP_P4_22679_24941180	NC_021161.1	Ca_kabuli_chr02	24941180	CC	TT	1946758545
SNP_P4_22680_24941293	NC_021161.1	Ca_kabuli_chr02	24941293	TT	AA	1946758547
SNP_P4_22681_24942988	NC_021161.1	Ca_kabuli_chr02	24942988	CC	TT	1946758549
SNP_P4_22682_24943018	NC_021161.1	Ca_kabuli_chr02	24943018	TT	GG	1946758551

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_22684_24943092	NC_021161.1	Ca_kabuli_chr02	24943092	AA	GG	1946758555
SNP_P4_22685_24943095	NC_021161.1	Ca_kabuli_chr02	24943095	CC	TT	1946758557
SNP_P4_22688_24943310	NC_021161.1	Ca_kabuli_chr02	24943310	AA	GG	1946758559
SNP_P4_22689_24943336	NC_021161.1	Ca_kabuli_chr02	24943336	AA	GG	1946758561
SNP_P4_22690_24943343	NC_021161.1	Ca_kabuli_chr02	24943343	AA	GG	1946758563
SNP_P4_22691_24943435	NC_021161.1	Ca_kabuli_chr02	24943435	TT	CC	1946758565
SNP_P4_22692_24943497	NC_021161.1	Ca_kabuli_chr02	24943497	AA	GG	1946758567
SNP_P4_22693_24947810	NC_021161.1	Ca_kabuli_chr02	24947810	CC	TT	1946758568
SNP_P4_22694_24947830	NC_021161.1	Ca_kabuli_chr02	24947830	CC	TT	1946758570
SNP_P4_22695_24947843	NC_021161.1	Ca_kabuli_chr02	24947843	TT	AA	1946758572
SNP_P4_22696_24947849	NC_021161.1	Ca_kabuli_chr02	24947849	GG	AA	1946758574
SNP_P4_22697_24947882	NC_021161.1	Ca_kabuli_chr02	24947882	CC	TT	1946758576
SNP_P4_22698_24947934	NC_021161.1	Ca_kabuli_chr02	24947934	GG	AA	1946758578
SNP_P4_22699_24948010	NC_021161.1	Ca_kabuli_chr02	24948010	AA	GG	1946758580
SNP_P4_22700_24948150	NC_021161.1	Ca_kabuli_chr02	24948150	AA	GG	1946758582
SNP_P4_22701_24948227	NC_021161.1	Ca_kabuli_chr02	24948227	GG	AA	1946758584
SNP_P4_22702_24948285	NC_021161.1	Ca_kabuli_chr02	24948285	TT	CC	1946758586
SNP_P4_22703_24948318	NC_021161.1	Ca_kabuli_chr02	24948318	CC	TT	1946758588
SNP_P4_22704_24948319	NC_021161.1	Ca_kabuli_chr02	24948319	CC	AA	1946758590
SNP_P4_22705_24948341	NC_021161.1	Ca_kabuli_chr02	24948341	GG	AA	1946758592
SNP_P4_22706_24968950	NC_021161.1	Ca_kabuli_chr02	24968950	GG	CC	1946758594
SNP_P4_22707_24968984	NC_021161.1	Ca_kabuli_chr02	24968984	AA	GG	1946758596
SNP_P4_22708_24969062	NC_021161.1	Ca_kabuli_chr02	24969062	TT	CC	1946758598
SNP_P4_22709_24969076	NC_021161.1	Ca_kabuli_chr02	24969076	TT	AA	1946758600
SNP_P4_22710_24969123	NC_021161.1	Ca_kabuli_chr02	24969123	TT	CC	1946758602
SNP_P4_22711_24969312	NC_021161.1	Ca_kabuli_chr02	24969312	CC	GG	1946758604
SNP_P4_22712_24969409	NC_021161.1	Ca_kabuli_chr02	24969409	AA	GG	1946758606
SNP_P4_22713_24969413	NC_021161.1	Ca_kabuli_chr02	24969413	GG	CC	1946758608
SNP_P4_22714_24983724	NC_021161.1	Ca_kabuli_chr02	24983724	AA	GG	1946758610
SNP_P4_22715_24984432	NC_021161.1	Ca_kabuli_chr02	24984432	GG	AA	1946758612
SNP_P4_22716_25025016	NC_021161.1	Ca_kabuli_chr02	25025016	CC	TT	1946758614
SNP_P4_22717_25025121	NC_021161.1	Ca_kabuli_chr02	25025121	CC	TT	1946758616
SNP_P4_22718_25025190	NC_021161.1	Ca_kabuli_chr02	25025190	CC	TT	1946758618
SNP_P4_22719_25025200	NC_021161.1	Ca_kabuli_chr02	25025200	CC	TT	1946758620
SNP_P4_22720_25025240	NC_021161.1	Ca_kabuli_chr02	25025240	GG	AA	1946758622
SNP_P4_22721_25025294	NC_021161.1	Ca_kabuli_chr02	25025294	CC	TT	1946758624
SNP_P4_22722_25025358	NC_021161.1	Ca_kabuli_chr02	25025358	GG	AA	1946758626
SNP_P4_22723_25032777	NC_021161.1	Ca_kabuli_chr02	25032777	GG	AA	1946758628
SNP_P4_22724_25074162	NC_021161.1	Ca_kabuli_chr02	25074162	CC	TT	1946758630
SNP_P4_22725_25090009	NC_021161.1	Ca_kabuli_chr02	25090009	TT	CC	1946758632
SNP_P4_22726_25135940	NC_021161.1	Ca_kabuli_chr02	25135940	GG	AA	1946758634

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_22728_25157280	NC_021161.1	Ca_kabuli_chr02	25157280	AA	GG	1946758638
SNP_P4_22729_25157289	NC_021161.1	Ca_kabuli_chr02	25157289	TT	CC	1946758640
SNP_P4_22730_25157291	NC_021161.1	Ca_kabuli_chr02	25157291	AA	CC	1946758642
SNP_P4_22731_25157329	NC_021161.1	Ca_kabuli_chr02	25157329	CC	TT	1946758644
SNP_P4_22732_25157331	NC_021161.1	Ca_kabuli_chr02	25157331	GG	AA	1946758646
SNP_P4_22733_25157350	NC_021161.1	Ca_kabuli_chr02	25157350	AA	GG	1946758648
SNP_P4_22734_25169851	NC_021161.1	Ca_kabuli_chr02	25169851	AA	TT	1946758650
SNP_P4_22735_25172715	NC_021161.1	Ca_kabuli_chr02	25172715	GG	TT	1946758652
SNP_P4_22736_25188186	NC_021161.1	Ca_kabuli_chr02	25188186	CC	TT	1946758654
SNP_P4_22737_25193843	NC_021161.1	Ca_kabuli_chr02	25193843	TT	AA	1946758656
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SNP_P4_22740_25224365	NC_021161.1	Ca_kabuli_chr02	25224365	GG	AA	1946758663
SNP_P4_22741_25224450	NC_021161.1	Ca_kabuli_chr02	25224450	CC	TT	1946758665
SNP_P4_22742_25224713	NC_021161.1	Ca_kabuli_chr02	25224713	GG	AA	1946758667
SNP_P4_22743_25224717	NC_021161.1	Ca_kabuli_chr02	25224717	GG	AA	1946758669
SNP_P4_22744_25224723	NC_021161.1	Ca_kabuli_chr02	25224723	AA	GG	1946758675
SNP_P4_22745_25224724	NC_021161.1	Ca_kabuli_chr02	25224724	CC	TT	1946758678
SNP_P4_22746_25224736	NC_021161.1	Ca_kabuli_chr02	25224736	TT	CC	1946758680
SNP_P4_22747_25225389	NC_021161.1	Ca_kabuli_chr02	25225389	TT	CC	1946758682
SNP_P4_22748_25227443	NC_021161.1	Ca_kabuli_chr02	25227443	AA	TT	1946758684
SNP_P4_22751_25303535	NC_021161.1	Ca_kabuli_chr02	25303535	GG	AA	1946758686
SNP_P4_22752_25342905	NC_021161.1	Ca_kabuli_chr02	25342905	GG	AA	1946758688
SNP_P4_22754_25401729	NC_021161.1	Ca_kabuli_chr02	25401729	CC	TT	1946758690
SNP_P4_22755_25411204	NC_021161.1	Ca_kabuli_chr02	25411204	GG	AA	1946758692
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SNP_P4_22759_25449668	NC_021161.1	Ca_kabuli_chr02	25449668	CC	TT	1946758698
SNP_P4_22760_25449715	NC_021161.1	Ca_kabuli_chr02	25449715	GG	AA	1946758700
SNP_P4_22761_25449834	NC_021161.1	Ca_kabuli_chr02	25449834	TT	CC	1946758702
SNP_P4_22762_25451015	NC_021161.1	Ca_kabuli_chr02	25451015	AA	GG	1946758704
SNP_P4_22763_25451035	NC_021161.1	Ca_kabuli_chr02	25451035	GG	AA	1946758706
SNP_P4_22764_25451041	NC_021161.1	Ca_kabuli_chr02	25451041	AA	GG	1946758708
SNP_P4_22765_25451126	NC_021161.1	Ca_kabuli_chr02	25451126	TT	CC	1946758710
SNP_P4_22766_25453083	NC_021161.1	Ca_kabuli_chr02	25453083	AA	TT	1946758712
SNP_P4_22767_25458481	NC_021161.1	Ca_kabuli_chr02	25458481	AA	GG	1946758714
SNP_P4_22769_25510760	NC_021161.1	Ca_kabuli_chr02	25510760	AA	GG	1946758716
SNP_P4_22770_25510769	NC_021161.1	Ca_kabuli_chr02	25510769	AA	GG	1946758718
SNP_P4_22771_25512989	NC_021161.1	Ca_kabuli_chr02	25512989	CC	TT	1946758720
SNP_P4_22773_25528909	NC_021161.1	Ca_kabuli_chr02	25528909	AA	GG	1946758722
SNP_P4_22774_25528912	NC_021161.1	Ca_kabuli_chr02	25528912	TT	GG	1946758724

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_22776_25528945	NC_021161.1	Ca_kabuli_chr02	25528945	TT	GG	1946758728
SNP_P4_22777_25528955	NC_021161.1	Ca_kabuli_chr02	25528955	CC	AA	1946758730
SNP_P4_22778_25528977	NC_021161.1	Ca_kabuli_chr02	25528977	CC	TT	1946758732
SNP_P4_22779_25529031	NC_021161.1	Ca_kabuli_chr02	25529031	TT	AA	1946758734
SNP_P4_22780_25529039	NC_021161.1	Ca_kabuli_chr02	25529039	AA	GG	1946758736
SNP_P4_22781_25529052	NC_021161.1	Ca_kabuli_chr02	25529052	TT	CC	1946758738
SNP_P4_22782_25529093	NC_021161.1	Ca_kabuli_chr02	25529093	TT	GG	1946758740
SNP_P4_22783_25529094	NC_021161.1	Ca_kabuli_chr02	25529094	CC	AA	1946758742
SNP_P4_22784_25529098	NC_021161.1	Ca_kabuli_chr02	25529098	AA	CC	1946758744
SNP_P4_22785_25529104	NC_021161.1	Ca_kabuli_chr02	25529104	AA	CC	1946758746
SNP_P4_22786_25529130	NC_021161.1	Ca_kabuli_chr02	25529130	TT	CC	1946758748
SNP_P4_22787_25529148	NC_021161.1	Ca_kabuli_chr02	25529148	TT	CC	1946758750
SNP_P4_22788_25529153	NC_021161.1	Ca_kabuli_chr02	25529153	CC	AA	1946758753
SNP_P4_22789_25529234	NC_021161.1	Ca_kabuli_chr02	25529234	AA	GG	1946758755
SNP_P4_22790_25529384	NC_021161.1	Ca_kabuli_chr02	25529384	GG	AA	1946758757
SNP_P4_22791_25529403	NC_021161.1	Ca_kabuli_chr02	25529403	CC	AA	1946758759
SNP_P4_22792_25529422	NC_021161.1	Ca_kabuli_chr02	25529422	AA	GG	1946758761
SNP_P4_22793_25529480	NC_021161.1	Ca_kabuli_chr02	25529480	AA	GG	1946758763
SNP_P4_22794_25529527	NC_021161.1	Ca_kabuli_chr02	25529527	AA	CC	1946758765
SNP_P4_22795_25529546	NC_021161.1	Ca_kabuli_chr02	25529546	AA	TT	1946758767
SNP_P4_22796_25529552	NC_021161.1	Ca_kabuli_chr02	25529552	GG	AA	1946758769
SNP_P4_22797_25529641	NC_021161.1	Ca_kabuli_chr02	25529641	TT	GG	1946758771
SNP_P4_22798_25529643	NC_021161.1	Ca_kabuli_chr02	25529643	TT	CC	1946758773
SNP_P4_22799_25529816	NC_021161.1	Ca_kabuli_chr02	25529816	CC	TT	1946758775
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SNP_P4_22801_25529836	NC_021161.1	Ca_kabuli_chr02	25529836	CC	TT	1946758779
SNP_P4_22803_25529914	NC_021161.1	Ca_kabuli_chr02	25529914	AA	GG	1946758781
SNP_P4_22804_25529920	NC_021161.1	Ca_kabuli_chr02	25529920	TT	GG	1946758783
SNP_P4_22805_25529937	NC_021161.1	Ca_kabuli_chr02	25529937	TT	CC	1946758785
SNP_P4_22806_25529979	NC_021161.1	Ca_kabuli_chr02	25529979	CC	TT	1946758787
SNP_P4_22807_25534719	NC_021161.1	Ca_kabuli_chr02	25534719	TT	GG	1946758789
SNP_P4_22809_25535135	NC_021161.1	Ca_kabuli_chr02	25535135	TT	CC	1946758791
SNP_P4_22810_25535151	NC_021161.1	Ca_kabuli_chr02	25535151	TT	CC	1946758793
SNP_P4_22811_25535154	NC_021161.1	Ca_kabuli_chr02	25535154	TT	GG	1946758795
SNP_P4_22812_25535166	NC_021161.1	Ca_kabuli_chr02	25535166	TT	CC	1946758797
SNP_P4_22814_25592583	NC_021161.1	Ca_kabuli_chr02	25592583	TT	CC	1946758799
SNP_P4_22816_25594203	NC_021161.1	Ca_kabuli_chr02	25594203	TT	AA	1946758801
SNP_P4_22817_25594205	NC_021161.1	Ca_kabuli_chr02	25594205	AA	GG	1946758803
SNP_P4_22818_25603355	NC_021161.1	Ca_kabuli_chr02	25603355	TT	CC	1946758805
SNP_P4_22819_25603551	NC_021161.1	Ca_kabuli_chr02	25603551	AA	GG	1946758807
SNP_P4_22820_25603558	NC_021161.1	Ca_kabuli_chr02	25603558	TT	CC	1946758809

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_22822_25604012	NC_021161.1	Ca_kabuli_chr02	25604012	GG	AA	1946758813
SNP_P4_22823_25609623	NC_021161.1	Ca_kabuli_chr02	25609623	CC	AA	1946758815
SNP_P4_22824_25609914	NC_021161.1	Ca_kabuli_chr02	25609914	GG	AA	1946758817
SNP_P4_22825_25609926	NC_021161.1	Ca_kabuli_chr02	25609926	CC	AA	1946758819
SNP_P4_22826_25610090	NC_021161.1	Ca_kabuli_chr02	25610090	TT	CC	1946758821
SNP_P4_22827_25613776	NC_021161.1	Ca_kabuli_chr02	25613776	AA	TT	1946758823
SNP_P4_22829_25673401	NC_021161.1	Ca_kabuli_chr02	25673401	CC	TT	1946758825
SNP_P4_22830_25680174	NC_021161.1	Ca_kabuli_chr02	25680174	CC	TT	1946758827
SNP_P4_22831_25680268	NC_021161.1	Ca_kabuli_chr02	25680268	CC	GG	1946758829
SNP_P4_22832_25680387	NC_021161.1	Ca_kabuli_chr02	25680387	TT	GG	1946758832
SNP_P4_22833_25680390	NC_021161.1	Ca_kabuli_chr02	25680390	CC	TT	1946758834
SNP_P4_22834_25680504	NC_021161.1	Ca_kabuli_chr02	25680504	AA	TT	1946758836
SNP_P4_22835_25680539	NC_021161.1	Ca_kabuli_chr02	25680539	TT	CC	1946758838
SNP_P4_22836_25680541	NC_021161.1	Ca_kabuli_chr02	25680541	TT	CC	1946758840
SNP_P4_22837_25680581	NC_021161.1	Ca_kabuli_chr02	25680581	CC	TT	1946758842
SNP_P4_22838_25680599	NC_021161.1	Ca_kabuli_chr02	25680599	GG	TT	1946758844
SNP_P4_22839_25680605	NC_021161.1	Ca_kabuli_chr02	25680605	CC	TT	1946758846
SNP_P4_22840_25680626	NC_021161.1	Ca_kabuli_chr02	25680626	TT	CC	1946758848
SNP_P4_22841_25680670	NC_021161.1	Ca_kabuli_chr02	25680670	AA	GG	1946758850
SNP_P4_22842_25680688	NC_021161.1	Ca_kabuli_chr02	25680688	TT	CC	1946758852
SNP_P4_22843_25683026	NC_021161.1	Ca_kabuli_chr02	25683026	TT	CC	1946758854
SNP_P4_22844_25683074	NC_021161.1	Ca_kabuli_chr02	25683074	CC	TT	1946758856
SNP_P4_22845_25683303	NC_021161.1	Ca_kabuli_chr02	25683303	TT	CC	1946758858
SNP_P4_22846_25683306	NC_021161.1	Ca_kabuli_chr02	25683306	TT	CC	1946758860
SNP_P4_22847_25683329	NC_021161.1	Ca_kabuli_chr02	25683329	GG	CC	1946758862
SNP_P4_22848_25687492	NC_021161.1	Ca_kabuli_chr02	25687492	TT	AA	1946758864
SNP_P4_22849_25708354	NC_021161.1	Ca_kabuli_chr02	25708354	TT	CC	1946758866
SNP_P4_22850_25712940	NC_021161.1	Ca_kabuli_chr02	25712940	TT	CC	1946758868
SNP_P4_22851_25712946	NC_021161.1	Ca_kabuli_chr02	25712946	CC	AA	1946758871
SNP_P4_22852_25712955	NC_021161.1	Ca_kabuli_chr02	25712955	AA	CC	1946758873
SNP_P4_22853_25713199	NC_021161.1	Ca_kabuli_chr02	25713199	GG	TT	1946758875
SNP_P4_22854_25713222	NC_021161.1	Ca_kabuli_chr02	25713222	GG	AA	1946758877
SNP_P4_22855_25713261	NC_021161.1	Ca_kabuli_chr02	25713261	CC	GG	1946758879
SNP_P4_22856_25713295	NC_021161.1	Ca_kabuli_chr02	25713295	AA	TT	1946758881
SNP_P4_22857_25713308	NC_021161.1	Ca_kabuli_chr02	25713308	GG	AA	1946758883
SNP_P4_22858_25713312	NC_021161.1	Ca_kabuli_chr02	25713312	CC	TT	1946758885
SNP_P4_22859_25725670	NC_021161.1	Ca_kabuli_chr02	25725670	CC	AA	1946758887
SNP_P4_22860_25731244	NC_021161.1	Ca_kabuli_chr02	25731244	GG	CC	1946758889
SNP_P4_22861_25732964	NC_021161.1	Ca_kabuli_chr02	25732964	GG	TT	1946758891
SNP_P4_22862_25732973	NC_021161.1	Ca_kabuli_chr02	25732973	CC	TT	1946758893
SNP_P4_22864_25747162	NC_021161.1	Ca_kabuli_chr02	25747162	TT	AA	1946758895

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_22866_25747486	NC_021161.1	Ca_kabuli_chr02	25747486	TT	CC	1946758899
SNP_P4_22867_25767934	NC_021161.1	Ca_kabuli_chr02	25767934	GG	AA	1946758901
SNP_P4_22868_25768005	NC_021161.1	Ca_kabuli_chr02	25768005	CC	GG	1946758903
SNP_P4_22870_25788209	NC_021161.1	Ca_kabuli_chr02	25788209	AA	GG	1946758905
SNP_P4_22872_25795239	NC_021161.1	Ca_kabuli_chr02	25795239	AA	TT	1946758908
SNP_P4_22873_25795594	NC_021161.1	Ca_kabuli_chr02	25795594	GG	AA	1946758911
SNP_P4_22874_25809155	NC_021161.1	Ca_kabuli_chr02	25809155	AA	GG	1946758913
SNP_P4_22875_25845523	NC_021161.1	Ca_kabuli_chr02	25845523	CC	TT	1946758915
SNP_P4_22876_25901111	NC_021161.1	Ca_kabuli_chr02	25901111	CC	GG	1946758917
SNP_P4_22878_25914319	NC_021161.1	Ca_kabuli_chr02	25914319	TT	AA	1946758919
SNP_P4_22879_25914320	NC_021161.1	Ca_kabuli_chr02	25914320	AA	GG	1946758921
SNP_P4_22880_25921093	NC_021161.1	Ca_kabuli_chr02	25921093	AA	CC	1946758923
SNP_P4_22881_25921094	NC_021161.1	Ca_kabuli_chr02	25921094	TT	CC	1946758925
SNP_P4_22882_25941432	NC_021161.1	Ca_kabuli_chr02	25941432	AA	GG	1946758927
SNP_P4_22883_25962244	NC_021161.1	Ca_kabuli_chr02	25962244	GG	TT	1946758929
SNP_P4_22884_26053038	NC_021161.1	Ca_kabuli_chr02	26053038	TT	AA	1946758931
SNP_P4_22885_26057915	NC_021161.1	Ca_kabuli_chr02	26057915	TT	CC	1946758933
SNP_P4_22888_26115209	NC_021161.1	Ca_kabuli_chr02	26115209	AA	TT	1946758935
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SNP_P4_22891_26429676	NC_021161.1	Ca_kabuli_chr02	26429676	AA	TT	1946758941
SNP_P4_22892_26438582	NC_021161.1	Ca_kabuli_chr02	26438582	TT	GG	1946758943
SNP_P4_22893_26438837	NC_021161.1	Ca_kabuli_chr02	26438837	GG	AA	1946758945
SNP_P4_22894_26438856	NC_021161.1	Ca_kabuli_chr02	26438856	AA	GG	1946758947
SNP_P4_22895_26446639	NC_021161.1	Ca_kabuli_chr02	26446639	GG	AA	1946758949
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SNP_P4_22897_26448592	NC_021161.1	Ca_kabuli_chr02	26448592	AA	GG	1946758953
SNP_P4_22898_26448599	NC_021161.1	Ca_kabuli_chr02	26448599	AA	GG	1946758955
SNP_P4_22899_26448880	NC_021161.1	Ca_kabuli_chr02	26448880	AA	GG	1946758957
SNP_P4_22900_26448904	NC_021161.1	Ca_kabuli_chr02	26448904	TT	CC	1946758959
SNP_P4_22901_26471708	NC_021161.1	Ca_kabuli_chr02	26471708	GG	AA	1946758961
SNP_P4_22902_26488103	NC_021161.1	Ca_kabuli_chr02	26488103	GG	AA	1946758963
SNP_P4_22903_26488165	NC_021161.1	Ca_kabuli_chr02	26488165	AA	TT	1946758965
SNP_P4_22904_26488177	NC_021161.1	Ca_kabuli_chr02	26488177	AA	GG	1946758967
SNP_P4_22905_26488211	NC_021161.1	Ca_kabuli_chr02	26488211	CC	TT	1946758968
SNP_P4_22906_26488224	NC_021161.1	Ca_kabuli_chr02	26488224	GG	TT	1946758970
SNP_P4_22907_26488307	NC_021161.1	Ca_kabuli_chr02	26488307	CC	TT	1946758972
SNP_P4_22908_26488330	NC_021161.1	Ca_kabuli_chr02	26488330	GG	AA	1946758974
SNP_P4_22909_26488372	NC_021161.1	Ca_kabuli_chr02	26488372	AA	GG	1946758976
SNP_P4_22910_26488397	NC_021161.1	Ca_kabuli_chr02	26488397	AA	CC	1946758978
SNP_P4_22911_26488403	NC_021161.1	Ca_kabuli_chr02	26488403	GG	AA	1946758980

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_22913_26488445	NC_021161.1	Ca_kabuli_chr02	26488445	AA	TT	1946758984
SNP_P4_22914_26488454	NC_021161.1	Ca_kabuli_chr02	26488454	AA	GG	1946758986
SNP_P4_22915_26488465	NC_021161.1	Ca_kabuli_chr02	26488465	CC	TT	1946758988
SNP_P4_22916_26488649	NC_021161.1	Ca_kabuli_chr02	26488649	GG	AA	1946758990
SNP_P4_22917_26504149	NC_021161.1	Ca_kabuli_chr02	26504149	AA	GG	1946758992
SNP_P4_22918_26504422	NC_021161.1	Ca_kabuli_chr02	26504422	AA	GG	1946758994
SNP_P4_22920_26504510	NC_021161.1	Ca_kabuli_chr02	26504510	TT	CC	1946758996
SNP_P4_22921_26504558	NC_021161.1	Ca_kabuli_chr02	26504558	AA	GG	1946758998
SNP_P4_22923_26556676	NC_021161.1	Ca_kabuli_chr02	26556676	AA	GG	1946759000
SNP_P4_22924_26567538	NC_021161.1	Ca_kabuli_chr02	26567538	AA	GG	1946759002
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SNP_P4_22926_26618660	NC_021161.1	Ca_kabuli_chr02	26618660	CC	TT	1946759006
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SNP_P4_22928_26675619	NC_021161.1	Ca_kabuli_chr02	26675619	AA	TT	1946759010
SNP_P4_22930_26716080	NC_021161.1	Ca_kabuli_chr02	26716080	GG	AA	1946759012
SNP_P4_22931_26736032	NC_021161.1	Ca_kabuli_chr02	26736032	AA	GG	1946759014
SNP_P4_22932_26736077	NC_021161.1	Ca_kabuli_chr02	26736077	TT	CC	1946759016
SNP_P4_22933_26751807	NC_021161.1	Ca_kabuli_chr02	26751807	AA	CC	1946759018
SNP_P4_22934_26777540	NC_021161.1	Ca_kabuli_chr02	26777540	CC	TT	1946759020
SNP_P4_22937_26842830	NC_021161.1	Ca_kabuli_chr02	26842830	GG	TT	1946759021
SNP_P4_22938_26856381	NC_021161.1	Ca_kabuli_chr02	26856381	AA	TT	1946759023
SNP_P4_22939_26893007	NC_021161.1	Ca_kabuli_chr02	26893007	AA	GG	1946759025
SNP_P4_22940_26901560	NC_021161.1	Ca_kabuli_chr02	26901560	AA	TT	1946759027
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SNP_P4_22942_26909837	NC_021161.1	Ca_kabuli_chr02	26909837	AA	GG	1946759031
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SNP_P4_22946_26922745	NC_021161.1	Ca_kabuli_chr02	26922745	TT	AA	1946759037
SNP_P4_22947_26925135	NC_021161.1	Ca_kabuli_chr02	26925135	CC	TT	1946759039
SNP_P4_22948_26925509	NC_021161.1	Ca_kabuli_chr02	26925509	TT	CC	1946759041
SNP_P4_22949_26925557	NC_021161.1	Ca_kabuli_chr02	26925557	TT	CC	1946759043
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SNP_P4_22956_27133294	NC_021161.1	Ca_kabuli_chr02	27133294	CC	TT	1946759057
SNP_P4_22957_27133298	NC_021161.1	Ca_kabuli_chr02	27133298	TT	CC	1946759059
SNP_P4_22958_27135190	NC_021161.1	Ca_kabuli_chr02	27135190	TT	CC	1946759061
SNP_P4_22959_27135245	NC_021161.1	Ca_kabuli_chr02	27135245	TT	CC	1946759063

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_22962_27137958	NC_021161.1	Ca_kabuli_chr02	27137958	CC	TT	1946759069
SNP_P4_22963_27137972	NC_021161.1	Ca_kabuli_chr02	27137972	CC	TT	1946759071
SNP_P4_22964_27137981	NC_021161.1	Ca_kabuli_chr02	27137981	AA	TT	1946759073
SNP_P4_22966_27152617	NC_021161.1	Ca_kabuli_chr02	27152617	CC	TT	1946759075
SNP_P4_22967_27156524	NC_021161.1	Ca_kabuli_chr02	27156524	TT	CC	1946759077
SNP_P4_22968_27188170	NC_021161.1	Ca_kabuli_chr02	27188170	AA	TT	1946759079
SNP_P4_22969_27190180	NC_021161.1	Ca_kabuli_chr02	27190180	GG	TT	1946759081
SNP_P4_22970_27190601	NC_021161.1	Ca_kabuli_chr02	27190601	TT	CC	1946759083
SNP_P4_22971_27192449	NC_021161.1	Ca_kabuli_chr02	27192449	TT	AA	1946759085
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SNP_P4_22973_27192697	NC_021161.1	Ca_kabuli_chr02	27192697	GG	AA	1946759089
SNP_P4_22974_27192707	NC_021161.1	Ca_kabuli_chr02	27192707	CC	TT	1946759091
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SNP_P4_22976_27192757	NC_021161.1	Ca_kabuli_chr02	27192757	AA	GG	1946759095
SNP_P4_22977_27192778	NC_021161.1	Ca_kabuli_chr02	27192778	AA	TT	1946759097
SNP_P4_22978_27192807	NC_021161.1	Ca_kabuli_chr02	27192807	AA	CC	1946759099
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SNP_P4_22980_27192809	NC_021161.1	Ca_kabuli_chr02	27192809	CC	TT	1946759103
SNP_P4_22981_27192812	NC_021161.1	Ca_kabuli_chr02	27192812	CC	TT	1946759105
SNP_P4_22982_27192952	NC_021161.1	Ca_kabuli_chr02	27192952	CC	GG	1946759107
SNP_P4_22983_27194429	NC_021161.1	Ca_kabuli_chr02	27194429	CC	TT	1946759109
SNP_P4_22984_27194430	NC_021161.1	Ca_kabuli_chr02	27194430	GG	AA	1946759111
SNP_P4_22985_27194507	NC_021161.1	Ca_kabuli_chr02	27194507	CC	TT	1946759113
SNP_P4_22986_27194541	NC_021161.1	Ca_kabuli_chr02	27194541	AA	GG	1946759115
SNP_P4_22987_27197521	NC_021161.1	Ca_kabuli_chr02	27197521	GG	AA	1946759117
SNP_P4_22988_27251797	NC_021161.1	Ca_kabuli_chr02	27251797	GG	AA	1946759119
SNP_P4_22989_27251825	NC_021161.1	Ca_kabuli_chr02	27251825	AA	GG	1946759121
SNP_P4_22990_27254094	NC_021161.1	Ca_kabuli_chr02	27254094	AA	TT	1946759123
SNP_P4_22991_27254223	NC_021161.1	Ca_kabuli_chr02	27254223	AA	GG	1946759125
SNP_P4_22992_27254232	NC_021161.1	Ca_kabuli_chr02	27254232	AA	GG	1946759128
SNP_P4_22993_27254252	NC_021161.1	Ca_kabuli_chr02	27254252	TT	CC	1946759130
SNP_P4_22994_27254309	NC_021161.1	Ca_kabuli_chr02	27254309	CC	TT	1946759132
SNP_P4_22995_27254319	NC_021161.1	Ca_kabuli_chr02	27254319	CC	TT	1946759134
SNP_P4_22996_27254339	NC_021161.1	Ca_kabuli_chr02	27254339	AA	GG	1946759136
SNP_P4_22997_27254377	NC_021161.1	Ca_kabuli_chr02	27254377	TT	CC	1946759138
SNP_P4_22998_27254394	NC_021161.1	Ca_kabuli_chr02	27254394	TT	AA	1946759139
SNP_P4_22999_27261602	NC_021161.1	Ca_kabuli_chr02	27261602	TT	AA	1946759140
SNP_P4_23000_27261691	NC_021161.1	Ca_kabuli_chr02	27261691	TT	GG	1946759141
SNP_P4_23002_27262003	NC_021161.1	Ca_kabuli_chr02	27262003	AA	GG	1946759142
SNP_P4_23003_27296358	NC_021161.1	Ca_kabuli_chr02	27296358	CC	TT	1946759143

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_23005_27325927	NC_021161.1	Ca_kabuli_chr02	27325927	CC	TT	1946759145
SNP_P4_23006_27325945	NC_021161.1	Ca_kabuli_chr02	27325945	AA	GG	1946759146
SNP_P4_23007_27325953	NC_021161.1	Ca_kabuli_chr02	27325953	GG	CC	1946759147
SNP_P4_23008_27325957	NC_021161.1	Ca_kabuli_chr02	27325957	GG	AA	1946759148
SNP_P4_23009_27325958	NC_021161.1	Ca_kabuli_chr02	27325958	TT	CC	1946759149
SNP_P4_23010_27325960	NC_021161.1	Ca_kabuli_chr02	27325960	GG	TT	1946759150
SNP_P4_23011_27325968	NC_021161.1	Ca_kabuli_chr02	27325968	CC	AA	1946759151
SNP_P4_23012_27389470	NC_021161.1	Ca_kabuli_chr02	27389470	GG	AA	1946759152
SNP_P4_23013_27389806	NC_021161.1	Ca_kabuli_chr02	27389806	TT	GG	1946759153
SNP_P4_23014_27418501	NC_021161.1	Ca_kabuli_chr02	27418501	AA	GG	1946759154
SNP_P4_23015_27418511	NC_021161.1	Ca_kabuli_chr02	27418511	TT	CC	1946759155
SNP_P4_23016_27418517	NC_021161.1	Ca_kabuli_chr02	27418517	AA	GG	1946759156
SNP_P4_23017_27418518	NC_021161.1	Ca_kabuli_chr02	27418518	AA	CC	1946759157
SNP_P4_23018_27418526	NC_021161.1	Ca_kabuli_chr02	27418526	AA	CC	1946759158
SNP_P4_23019_27418540	NC_021161.1	Ca_kabuli_chr02	27418540	AA	GG	1946759159
SNP_P4_23020_27418541	NC_021161.1	Ca_kabuli_chr02	27418541	CC	AA	1946759160
SNP_P4_23021_27419378	NC_021161.1	Ca_kabuli_chr02	27419378	TT	CC	1946759161
SNP_P4_23022_27432533	NC_021161.1	Ca_kabuli_chr02	27432533	CC	TT	1946759162
SNP_P4_23023_27432575	NC_021161.1	Ca_kabuli_chr02	27432575	CC	AA	1946759164
SNP_P4_23024_27475164	NC_021161.1	Ca_kabuli_chr02	27475164	CC	AA	1946759166
SNP_P4_23025_27475494	NC_021161.1	Ca_kabuli_chr02	27475494	CC	TT	1946759168
SNP_P4_23026_27491393	NC_021161.1	Ca_kabuli_chr02	27491393	TT	CC	1946759170
SNP_P4_23027_27491677	NC_021161.1	Ca_kabuli_chr02	27491677	TT	CC	1946759172
SNP_P4_23028_27491694	NC_021161.1	Ca_kabuli_chr02	27491694	AA	GG	1946759174
SNP_P4_23029_27491695	NC_021161.1	Ca_kabuli_chr02	27491695	AA	GG	1946759176
SNP_P4_23030_27491742	NC_021161.1	Ca_kabuli_chr02	27491742	AA	TT	1946759177
SNP_P4_23031_27491764	NC_021161.1	Ca_kabuli_chr02	27491764	GG	AA	1946759179
SNP_P4_23032_27491771	NC_021161.1	Ca_kabuli_chr02	27491771	AA	TT	1946759181
SNP_P4_23033_27491774	NC_021161.1	Ca_kabuli_chr02	27491774	CC	TT	1946759183
SNP_P4_23034_27491776	NC_021161.1	Ca_kabuli_chr02	27491776	AA	CC	1946759185
SNP_P4_23035_27504025	NC_021161.1	Ca_kabuli_chr02	27504025	AA	TT	1946759187
SNP_P4_23037_27525855	NC_021161.1	Ca_kabuli_chr02	27525855	GG	AA	1946759189
SNP_P4_23038_27528183	NC_021161.1	Ca_kabuli_chr02	27528183	AA	GG	1946759191
SNP_P4_23039_27528421	NC_021161.1	Ca_kabuli_chr02	27528421	TT	AA	1946759193
SNP_P4_23040_27528453	NC_021161.1	Ca_kabuli_chr02	27528453	TT	AA	1946759195
SNP_P4_23041_27528463	NC_021161.1	Ca_kabuli_chr02	27528463	TT	CC	1946759196
SNP_P4_23042_27528474	NC_021161.1	Ca_kabuli_chr02	27528474	AA	GG	1946759198
SNP_P4_23043_27528479	NC_021161.1	Ca_kabuli_chr02	27528479	TT	CC	1946759200
SNP_P4_23044_27528487	NC_021161.1	Ca_kabuli_chr02	27528487	AA	TT	1946759202
SNP_P4_23045_27528525	NC_021161.1	Ca_kabuli_chr02	27528525	CC	AA	1946759204
SNP_P4_23046_27532782	NC_021161.1	Ca_kabuli_chr02	27532782	CC	TT	1946759206

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_23048_27539342	NC_021161.1	Ca_kabuli_chr02	27539342	TT	AA	1946759210
SNP_P4_23049_27539447	NC_021161.1	Ca_kabuli_chr02	27539447	AA	TT	1946759212
SNP_P4_23050_27539529	NC_021161.1	Ca_kabuli_chr02	27539529	CC	GG	1946759214
SNP_P4_23051_27539605	NC_021161.1	Ca_kabuli_chr02	27539605	TT	CC	1946759216
SNP_P4_23052_27539640	NC_021161.1	Ca_kabuli_chr02	27539640	AA	GG	1946759218
SNP_P4_23053_27539799	NC_021161.1	Ca_kabuli_chr02	27539799	GG	AA	1946759220
SNP_P4_23054_27539827	NC_021161.1	Ca_kabuli_chr02	27539827	CC	AA	1946759222
SNP_P4_23055_27540390	NC_021161.1	Ca_kabuli_chr02	27540390	TT	AA	1946759224
SNP_P4_23056_27540430	NC_021161.1	Ca_kabuli_chr02	27540430	GG	TT	1946759226
SNP_P4_23058_27544449	NC_021161.1	Ca_kabuli_chr02	27544449	GG	AA	1946759228
SNP_P4_23059_27545454	NC_021161.1	Ca_kabuli_chr02	27545454	GG	AA	1946759230
SNP_P4_23060_27581289	NC_021161.1	Ca_kabuli_chr02	27581289	CC	TT	1946759232
SNP_P4_23061_27609583	NC_021161.1	Ca_kabuli_chr02	27609583	TT	CC	1946759234
SNP_P4_23063_27612232	NC_021161.1	Ca_kabuli_chr02	27612232	AA	TT	1946759236
SNP_P4_23064_27630744	NC_021161.1	Ca_kabuli_chr02	27630744	TT	CC	1946759238
SNP_P4_23066_27647448	NC_021161.1	Ca_kabuli_chr02	27647448	AA	GG	1946759240
SNP_P4_23067_27647451	NC_021161.1	Ca_kabuli_chr02	27647451	AA	GG	1946759242
SNP_P4_23068_27647776	NC_021161.1	Ca_kabuli_chr02	27647776	TT	CC	1946759244
SNP_P4_23069_27647823	NC_021161.1	Ca_kabuli_chr02	27647823	AA	GG	1946759246
SNP_P4_23070_27647856	NC_021161.1	Ca_kabuli_chr02	27647856	TT	CC	1946759248
SNP_P4_23072_27730523	NC_021161.1	Ca_kabuli_chr02	27730523	CC	TT	1946759250
SNP_P4_23073_27742587	NC_021161.1	Ca_kabuli_chr02	27742587	AA	GG	1946759252
SNP_P4_23074_27742973	NC_021161.1	Ca_kabuli_chr02	27742973	TT	GG	1946759254
SNP_P4_23075_27758146	NC_021161.1	Ca_kabuli_chr02	27758146	CC	GG	1946759256
SNP_P4_23076_27758153	NC_021161.1	Ca_kabuli_chr02	27758153	TT	CC	1946759258
SNP_P4_23077_27758174	NC_021161.1	Ca_kabuli_chr02	27758174	TT	CC	1946759260
SNP_P4_23082_27807611	NC_021161.1	Ca_kabuli_chr02	27807611	GG	AA	1946759262
SNP_P4_23083_27808198	NC_021161.1	Ca_kabuli_chr02	27808198	TT	AA	1946759268
SNP_P4_23084_27808199	NC_021161.1	Ca_kabuli_chr02	27808199	AA	CC	1946759270
SNP_P4_23085_27813345	NC_021161.1	Ca_kabuli_chr02	27813345	TT	CC	1946759272
SNP_P4_23086_27887887	NC_021161.1	Ca_kabuli_chr02	27887887	TT	CC	1946759274
SNP_P4_23087_27888325	NC_021161.1	Ca_kabuli_chr02	27888325	TT	CC	1946759276
SNP_P4_23088_27888404	NC_021161.1	Ca_kabuli_chr02	27888404	AA	CC	1946759278
SNP_P4_23089_27888412	NC_021161.1	Ca_kabuli_chr02	27888412	AA	CC	1946759280
SNP_P4_23091_27930105	NC_021161.1	Ca_kabuli_chr02	27930105	AA	GG	1946759282
SNP_P4_23092_27965204	NC_021161.1	Ca_kabuli_chr02	27965204	GG	AA	1946759284
SNP_P4_23093_27965332	NC_021161.1	Ca_kabuli_chr02	27965332	AA	CC	1946759286
SNP_P4_23094_27965344	NC_021161.1	Ca_kabuli_chr02	27965344	CC	TT	1946759288
SNP_P4_23095_27965347	NC_021161.1	Ca_kabuli_chr02	27965347	GG	AA	1946759290
SNP_P4_23096_27965363	NC_021161.1	Ca_kabuli_chr02	27965363	TT	CC	1946759292
SNP_P4_23097_27973663	NC_021161.1	Ca_kabuli_chr02	27973663	AA	TT	1946759294

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_23099_27995256	NC_021161.1	Ca_kabuli_chr02	27995256	CC	TT	1946759298
SNP_P4_23100_28009662	NC_021161.1	Ca_kabuli_chr02	28009662	GG	TT	1946759300
SNP_P4_23103_28038040	NC_021161.1	Ca_kabuli_chr02	28038040	AA	TT	1946759302
SNP_P4_23104_28039647	NC_021161.1	Ca_kabuli_chr02	28039647	CC	TT	1946759304
SNP_P4_23105_28108505	NC_021161.1	Ca_kabuli_chr02	28108505	AA	GG	1946759306
SNP_P4_23106_28112683	NC_021161.1	Ca_kabuli_chr02	28112683	TT	CC	1946759308
SNP_P4_23107_28143723	NC_021161.1	Ca_kabuli_chr02	28143723	CC	TT	1946759310
SNP_P4_23108_28143980	NC_021161.1	Ca_kabuli_chr02	28143980	GG	AA	1946759312
SNP_P4_23109_28143997	NC_021161.1	Ca_kabuli_chr02	28143997	AA	GG	1946759314
SNP_P4_23110_28144022	NC_021161.1	Ca_kabuli_chr02	28144022	TT	CC	1946759316
SNP_P4_23111_28144024	NC_021161.1	Ca_kabuli_chr02	28144024	GG	AA	1946759318
SNP_P4_23112_28148586	NC_021161.1	Ca_kabuli_chr02	28148586	CC	TT	1946759320
SNP_P4_23113_28162248	NC_021161.1	Ca_kabuli_chr02	28162248	TT	CC	1946759322
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SNP_P4_23115_28222734	NC_021161.1	Ca_kabuli_chr02	28222734	AA	GG	1946759326
SNP_P4_23116_28233576	NC_021161.1	Ca_kabuli_chr02	28233576	CC	TT	1946759328
SNP_P4_23120_28240061	NC_021161.1	Ca_kabuli_chr02	28240061	TT	GG	1946759330
SNP_P4_23121_28240429	NC_021161.1	Ca_kabuli_chr02	28240429	CC	AA	1946759332
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SNP_P4_23123_28252259	NC_021161.1	Ca_kabuli_chr02	28252259	TT	AA	1946759336
SNP_P4_23124_28252263	NC_021161.1	Ca_kabuli_chr02	28252263	AA	GG	1946759338
SNP_P4_23125_28252265	NC_021161.1	Ca_kabuli_chr02	28252265	AA	TT	1946759340
SNP_P4_23126_28252267	NC_021161.1	Ca_kabuli_chr02	28252267	AA	TT	1946759342
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SNP_P4_23130_28252520	NC_021161.1	Ca_kabuli_chr02	28252520	GG	AA	1946759350
SNP_P4_23131_28252537	NC_021161.1	Ca_kabuli_chr02	28252537	GG	AA	1946759352
SNP_P4_23132_28252574	NC_021161.1	Ca_kabuli_chr02	28252574	TT	GG	1946759354
SNP_P4_23133_28252608	NC_021161.1	Ca_kabuli_chr02	28252608	CC	TT	1946759357
SNP_P4_23134_28252622	NC_021161.1	Ca_kabuli_chr02	28252622	CC	TT	1946759359
SNP_P4_23135_28252635	NC_021161.1	Ca_kabuli_chr02	28252635	GG	AA	1946759361
SNP_P4_23136_28252662	NC_021161.1	Ca_kabuli_chr02	28252662	AA	TT	1946759363
SNP_P4_23137_28252878	NC_021161.1	Ca_kabuli_chr02	28252878	AA	CC	1946759365
SNP_P4_23138_28252884	NC_021161.1	Ca_kabuli_chr02	28252884	GG	TT	1946759367
SNP_P4_23139_28252885	NC_021161.1	Ca_kabuli_chr02	28252885	AA	GG	1946759369
SNP_P4_23140_28252886	NC_021161.1	Ca_kabuli_chr02	28252886	TT	AA	1946759371
SNP_P4_23141_28253006	NC_021161.1	Ca_kabuli_chr02	28253006	CC	TT	1946759373
SNP_P4_23142_28253021	NC_021161.1	Ca_kabuli_chr02	28253021	GG	TT	1946759376
SNP_P4_23143_28253215	NC_021161.1	Ca_kabuli_chr02	28253215	AA	CC	1946759378
SNP_P4_23144_28253229	NC_021161.1	Ca_kabuli_chr02	28253229	TT	GG	1946759380

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_23146_28259595	NC_021161.1	Ca_kabuli_chr02	28259595	CC	TT	1946759384
SNP_P4_23147_28259723	NC_021161.1	Ca_kabuli_chr02	28259723	AA	TT	1946759386
SNP_P4_23149_28262541	NC_021161.1	Ca_kabuli_chr02	28262541	CC	TT	1946759388
SNP_P4_23150_28262543	NC_021161.1	Ca_kabuli_chr02	28262543	AA	CC	1946759390
SNP_P4_23151_28262677	NC_021161.1	Ca_kabuli_chr02	28262677	GG	TT	1946759392
SNP_P4_23152_28262687	NC_021161.1	Ca_kabuli_chr02	28262687	GG	TT	1946759394
SNP_P4_23153_28262741	NC_021161.1	Ca_kabuli_chr02	28262741	CC	AA	1946759396
SNP_P4_23154_28262742	NC_021161.1	Ca_kabuli_chr02	28262742	TT	CC	1946759398
SNP_P4_23155_28262743	NC_021161.1	Ca_kabuli_chr02	28262743	GG	AA	1946759400
SNP_P4_23156_28262908	NC_021161.1	Ca_kabuli_chr02	28262908	CC	AA	1946759402
SNP_P4_23157_28262956	NC_021161.1	Ca_kabuli_chr02	28262956	TT	GG	1946759404
SNP_P4_23158_28262999	NC_021161.1	Ca_kabuli_chr02	28262999	TT	GG	1946759406
SNP_P4_23159_28263061	NC_021161.1	Ca_kabuli_chr02	28263061	AA	GG	1946759408
SNP_P4_23160_28263068	NC_021161.1	Ca_kabuli_chr02	28263068	TT	GG	1946759410
SNP_P4_23161_28263130	NC_021161.1	Ca_kabuli_chr02	28263130	GG	AA	1946759412
SNP_P4_23162_28263142	NC_021161.1	Ca_kabuli_chr02	28263142	TT	CC	1946759414
SNP_P4_23163_28263153	NC_021161.1	Ca_kabuli_chr02	28263153	TT	CC	1946759416
SNP_P4_23164_28270699	NC_021161.1	Ca_kabuli_chr02	28270699	CC	TT	1946759418
SNP_P4_23165_28282183	NC_021161.1	Ca_kabuli_chr02	28282183	AA	GG	1946759420
SNP_P4_23166_28284368	NC_021161.1	Ca_kabuli_chr02	28284368	GG	AA	1946759423
SNP_P4_23167_28284392	NC_021161.1	Ca_kabuli_chr02	28284392	TT	AA	1946759425
SNP_P4_23168_28284395	NC_021161.1	Ca_kabuli_chr02	28284395	GG	TT	1946759427
SNP_P4_23169_28284447	NC_021161.1	Ca_kabuli_chr02	28284447	AA	GG	1946759429
SNP_P4_23170_28304303	NC_021161.1	Ca_kabuli_chr02	28304303	TT	CC	1946759431
SNP_P4_23172_28374881	NC_021161.1	Ca_kabuli_chr02	28374881	CC	TT	1946759433
SNP_P4_23173_28388267	NC_021161.1	Ca_kabuli_chr02	28388267	TT	CC	1946759435
SNP_P4_23174_28388662	NC_021161.1	Ca_kabuli_chr02	28388662	CC	TT	1946759437
SNP_P4_23175_28392565	NC_021161.1	Ca_kabuli_chr02	28392565	TT	GG	1946759439
SNP_P4_23176_28395901	NC_021161.1	Ca_kabuli_chr02	28395901	AA	TT	1946759441
SNP_P4_23177_28395938	NC_021161.1	Ca_kabuli_chr02	28395938	GG	AA	1946759443
SNP_P4_23178_28396018	NC_021161.1	Ca_kabuli_chr02	28396018	CC	GG	1946759445
SNP_P4_23179_28396088	NC_021161.1	Ca_kabuli_chr02	28396088	GG	AA	1946759447
SNP_P4_23180_28396172	NC_021161.1	Ca_kabuli_chr02	28396172	GG	AA	1946759449
SNP_P4_23181_28396288	NC_021161.1	Ca_kabuli_chr02	28396288	AA	TT	1946759451
SNP_P4_23182_28396363	NC_021161.1	Ca_kabuli_chr02	28396363	GG	TT	1946759453
SNP_P4_23183_28396386	NC_021161.1	Ca_kabuli_chr02	28396386	GG	CC	1946759455
SNP_P4_23185_28414077	NC_021161.1	Ca_kabuli_chr02	28414077	TT	GG	1946759457
SNP_P4_23186_28425797	NC_021161.1	Ca_kabuli_chr02	28425797	CC	TT	1946759459
SNP_P4_23188_28465020	NC_021161.1	Ca_kabuli_chr02	28465020	CC	AA	1946759461
SNP_P4_23189_28465218	NC_021161.1	Ca_kabuli_chr02	28465218	AA	GG	1946759463
SNP_P4_23191_28465280	NC_021161.1	Ca_kabuli_chr02	28465280	AA	CC	1946759465

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_23193_28465338	NC_021161.1	Ca_kabuli_chr02	28465338	TT	AA	1946759469
SNP_P4_23194_28465397	NC_021161.1	Ca_kabuli_chr02	28465397	TT	CC	1946759471
SNP_P4_23195_28465399	NC_021161.1	Ca_kabuli_chr02	28465399	GG	AA	1946759473
SNP_P4_23197_28465525	NC_021161.1	Ca_kabuli_chr02	28465525	AA	GG	1946759475
SNP_P4_23199_28465638	NC_021161.1	Ca_kabuli_chr02	28465638	GG	AA	1946759477
SNP_P4_23201_28483775	NC_021161.1	Ca_kabuli_chr02	28483775	AA	GG	1946759479
SNP_P4_23202_28498024	NC_021161.1	Ca_kabuli_chr02	28498024	TT	CC	1946759481
SNP_P4_23203_28498031	NC_021161.1	Ca_kabuli_chr02	28498031	AA	CC	1946759483
SNP_P4_23204_28498136	NC_021161.1	Ca_kabuli_chr02	28498136	AA	GG	1946759485
SNP_P4_23205_28498478	NC_021161.1	Ca_kabuli_chr02	28498478	TT	CC	1946759487
SNP_P4_23206_28501064	NC_021161.1	Ca_kabuli_chr02	28501064	AA	CC	1946759489
SNP_P4_23207_28501122	NC_021161.1	Ca_kabuli_chr02	28501122	TT	CC	1946759491
SNP_P4_23208_28501139	NC_021161.1	Ca_kabuli_chr02	28501139	CC	TT	1946759493
SNP_P4_23209_28501160	NC_021161.1	Ca_kabuli_chr02	28501160	GG	CC	1946759496
SNP_P4_23210_28501257	NC_021161.1	Ca_kabuli_chr02	28501257	AA	GG	1946759498
SNP_P4_23211_28513376	NC_021161.1	Ca_kabuli_chr02	28513376	GG	TT	1946759500
SNP_P4_23212_28513377	NC_021161.1	Ca_kabuli_chr02	28513377	CC	AA	1946759502
SNP_P4_23213_28519899	NC_021161.1	Ca_kabuli_chr02	28519899	TT	GG	1946759504
SNP_P4_23214_28519900	NC_021161.1	Ca_kabuli_chr02	28519900	GG	AA	1946759506
SNP_P4_23215_28525470	NC_021161.1	Ca_kabuli_chr02	28525470	GG	AA	1946759508
SNP_P4_23217_28567396	NC_021161.1	Ca_kabuli_chr02	28567396	GG	AA	1946759510
SNP_P4_23218_28567397	NC_021161.1	Ca_kabuli_chr02	28567397	TT	CC	1946759512
SNP_P4_23220_28583249	NC_021161.1	Ca_kabuli_chr02	28583249	AA	GG	1946759515
SNP_P4_23221_28583283	NC_021161.1	Ca_kabuli_chr02	28583283	CC	TT	1946759517
SNP_P4_23222_28583289	NC_021161.1	Ca_kabuli_chr02	28583289	TT	GG	1946759519
SNP_P4_23223_28583377	NC_021161.1	Ca_kabuli_chr02	28583377	GG	AA	1946759521
SNP_P4_23224_28583409	NC_021161.1	Ca_kabuli_chr02	28583409	TT	CC	1946759523
SNP_P4_23225_28583585	NC_021161.1	Ca_kabuli_chr02	28583585	CC	TT	1946759525
SNP_P4_23226_28604532	NC_021161.1	Ca_kabuli_chr02	28604532	AA	GG	1946759527
SNP_P4_23227_28604594	NC_021161.1	Ca_kabuli_chr02	28604594	TT	CC	1946759529
SNP_P4_23229_28618389	NC_021161.1	Ca_kabuli_chr02	28618389	CC	TT	1946759531
SNP_P4_23230_28625021	NC_021161.1	Ca_kabuli_chr02	28625021	GG	AA	1946759533
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SNP_P4_23232_28632092	NC_021161.1	Ca_kabuli_chr02	28632092	AA	TT	1946759537
SNP_P4_23233_28632168	NC_021161.1	Ca_kabuli_chr02	28632168	CC	GG	1946759538
SNP_P4_23234_28632202	NC_021161.1	Ca_kabuli_chr02	28632202	TT	CC	1946759539
SNP_P4_23235_28632464	NC_021161.1	Ca_kabuli_chr02	28632464	GG	AA	1946759540
SNP_P4_23236_28664882	NC_021161.1	Ca_kabuli_chr02	28664882	TT	CC	1946759541
SNP_P4_23237_28668097	NC_021161.1	Ca_kabuli_chr02	28668097	AA	GG	1946759542
SNP_P4_23238_28669813	NC_021161.1	Ca_kabuli_chr02	28669813	TT	AA	1946759544
SNP_P4_23239_28676502	NC_021161.1	Ca_kabuli_chr02	28676502	GG	TT	1946759546

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_23241_28708880	NC_021161.1	Ca_kabuli_chr02	28708880	TT	CC	1946759550
SNP_P4_23243_28723036	NC_021161.1	Ca_kabuli_chr02	28723036	GG	CC	1946759552
SNP_P4_23244_28723066	NC_021161.1	Ca_kabuli_chr02	28723066	GG	CC	1946759554
SNP_P4_23245_28723136	NC_021161.1	Ca_kabuli_chr02	28723136	CC	AA	1946759556
SNP_P4_23246_28723705	NC_021161.1	Ca_kabuli_chr02	28723705	GG	TT	1946759558
SNP_P4_23247_28751373	NC_021161.1	Ca_kabuli_chr02	28751373	TT	CC	1946759560
SNP_P4_23248_28765073	NC_021161.1	Ca_kabuli_chr02	28765073	TT	CC	1946759562
SNP_P4_23249_28768702	NC_021161.1	Ca_kabuli_chr02	28768702	CC	TT	1946759564
SNP_P4_23250_28794222	NC_021161.1	Ca_kabuli_chr02	28794222	GG	AA	1946759566
SNP_P4_23251_28794264	NC_021161.1	Ca_kabuli_chr02	28794264	AA	GG	1946759568
SNP_P4_23252_28802525	NC_021161.1	Ca_kabuli_chr02	28802525	CC	TT	1946759570
SNP_P4_23253_28811493	NC_021161.1	Ca_kabuli_chr02	28811493	AA	TT	1946759572
SNP_P4_23254_28817327	NC_021161.1	Ca_kabuli_chr02	28817327	CC	GG	1946759574
SNP_P4_23255_28817962	NC_021161.1	Ca_kabuli_chr02	28817962	CC	TT	1946759576
SNP_P4_23256_28818200	NC_021161.1	Ca_kabuli_chr02	28818200	GG	CC	1946759578
SNP_P4_23257_28828420	NC_021161.1	Ca_kabuli_chr02	28828420	CC	AA	1946759580
SNP_P4_23258_28828441	NC_021161.1	Ca_kabuli_chr02	28828441	AA	GG	1946759582
SNP_P4_23259_28828476	NC_021161.1	Ca_kabuli_chr02	28828476	CC	TT	1946759584
SNP_P4_23260_28833750	NC_021161.1	Ca_kabuli_chr02	28833750	TT	CC	1946759586
SNP_P4_23261_28834128	NC_021161.1	Ca_kabuli_chr02	28834128	TT	CC	1946759588
SNP_P4_23262_28834173	NC_021161.1	Ca_kabuli_chr02	28834173	CC	TT	1946759590
SNP_P4_23263_28842979	NC_021161.1	Ca_kabuli_chr02	28842979	CC	TT	1946759592
SNP_P4_23264_28856735	NC_021161.1	Ca_kabuli_chr02	28856735	TT	AA	1946759594
SNP_P4_23265_28861321	NC_021161.1	Ca_kabuli_chr02	28861321	CC	AA	1946759596
SNP_P4_23266_28863290	NC_021161.1	Ca_kabuli_chr02	28863290	TT	CC	1946759598
SNP_P4_23267_28873626	NC_021161.1	Ca_kabuli_chr02	28873626	AA	TT	1946759600
SNP_P4_23269_28873979	NC_021161.1	Ca_kabuli_chr02	28873979	AA	GG	1946759602
SNP_P4_23270_28889127	NC_021161.1	Ca_kabuli_chr02	28889127	AA	CC	1946759604
SNP_P4_23271_28889148	NC_021161.1	Ca_kabuli_chr02	28889148	CC	GG	1946759606
SNP_P4_23272_28889331	NC_021161.1	Ca_kabuli_chr02	28889331	CC	TT	1946759608
SNP_P4_23273_28889341	NC_021161.1	Ca_kabuli_chr02	28889341	AA	GG	1946759610
SNP_P4_23274_28889354	NC_021161.1	Ca_kabuli_chr02	28889354	TT	CC	1946759612
SNP_P4_23275_28889400	NC_021161.1	Ca_kabuli_chr02	28889400	AA	GG	1946759614
SNP_P4_23276_28889449	NC_021161.1	Ca_kabuli_chr02	28889449	GG	AA	1946759616
SNP_P4_23277_28889456	NC_021161.1	Ca_kabuli_chr02	28889456	TT	CC	1946759618
SNP_P4_23278_28889475	NC_021161.1	Ca_kabuli_chr02	28889475	TT	CC	1946759620
SNP_P4_23279_28889476	NC_021161.1	Ca_kabuli_chr02	28889476	CC	TT	1946759622
SNP_P4_23280_28889479	NC_021161.1	Ca_kabuli_chr02	28889479	AA	GG	1946759624
SNP_P4_23281_28889515	NC_021161.1	Ca_kabuli_chr02	28889515	GG	TT	1946759626
SNP_P4_23282_28889522	NC_021161.1	Ca_kabuli_chr02	28889522	AA	GG	1946759628
SNP_P4_23283_28889542	NC_021161.1	Ca_kabuli_chr02	28889542	AA	GG	1946759630

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_23287_28892458	NC_021161.1	Ca_kabuli_chr02	28892458	CC	TT	1946759636
SNP_P4_23288_28898524	NC_021161.1	Ca_kabuli_chr02	28898524	GG	CC	1946759638
SNP_P4_23289_28898963	NC_021161.1	Ca_kabuli_chr02	28898963	GG	CC	1946759640
SNP_P4_23290_28899068	NC_021161.1	Ca_kabuli_chr02	28899068	GG	AA	1946759642
SNP_P4_23291_28901011	NC_021161.1	Ca_kabuli_chr02	28901011	GG	AA	1946759644
SNP_P4_23292_28915897	NC_021161.1	Ca_kabuli_chr02	28915897	GG	AA	1946759646
SNP_P4_23293_28939367	NC_021161.1	Ca_kabuli_chr02	28939367	AA	GG	1946759648
SNP_P4_23294_28979907	NC_021161.1	Ca_kabuli_chr02	28979907	CC	AA	1946759650
SNP_P4_23296_28996572	NC_021161.1	Ca_kabuli_chr02	28996572	CC	TT	1946759652
SNP_P4_23297_29046537	NC_021161.1	Ca_kabuli_chr02	29046537	GG	AA	1946759654
SNP_P4_23298_29053699	NC_021161.1	Ca_kabuli_chr02	29053699	CC	TT	1946759656
SNP_P4_23299_29059832	NC_021161.1	Ca_kabuli_chr02	29059832	TT	CC	1946759659
SNP_P4_23300_29059876	NC_021161.1	Ca_kabuli_chr02	29059876	AA	TT	1946759661
SNP_P4_23301_29060081	NC_021161.1	Ca_kabuli_chr02	29060081	AA	TT	1946759663
SNP_P4_23302_29060099	NC_021161.1	Ca_kabuli_chr02	29060099	AA	TT	1946759665
SNP_P4_23303_29060172	NC_021161.1	Ca_kabuli_chr02	29060172	TT	GG	1946759667
SNP_P4_23304_29060284	NC_021161.1	Ca_kabuli_chr02	29060284	TT	GG	1946759669
SNP_P4_23305_29060325	NC_021161.1	Ca_kabuli_chr02	29060325	GG	TT	1946759671
SNP_P4_23306_29060339	NC_021161.1	Ca_kabuli_chr02	29060339	TT	AA	1946759673
SNP_P4_23307_29060396	NC_021161.1	Ca_kabuli_chr02	29060396	CC	TT	1946759675
SNP_P4_23308_29060407	NC_021161.1	Ca_kabuli_chr02	29060407	AA	TT	1946759677
SNP_P4_23309_29060422	NC_021161.1	Ca_kabuli_chr02	29060422	GG	TT	1946759679
SNP_P4_23310_29071105	NC_021161.1	Ca_kabuli_chr02	29071105	TT	CC	1946759681
SNP_P4_23311_29071270	NC_021161.1	Ca_kabuli_chr02	29071270	TT	CC	1946759683
SNP_P4_23312_29071303	NC_021161.1	Ca_kabuli_chr02	29071303	GG	CC	1946759685
SNP_P4_23313_29071374	NC_021161.1	Ca_kabuli_chr02	29071374	TT	GG	1946759687
SNP_P4_23314_29071501	NC_021161.1	Ca_kabuli_chr02	29071501	TT	GG	1946759689
SNP_P4_23315_29071573	NC_021161.1	Ca_kabuli_chr02	29071573	TT	CC	1946759691
SNP_P4_23316_29071803	NC_021161.1	Ca_kabuli_chr02	29071803	TT	CC	1946759693
SNP_P4_23321_29129366	NC_021161.1	Ca_kabuli_chr02	29129366	AA	GG	1946759695
SNP_P4_23322_29129398	NC_021161.1	Ca_kabuli_chr02	29129398	AA	TT	1946759697
SNP_P4_23323_29129407	NC_021161.1	Ca_kabuli_chr02	29129407	AA	GG	1946759699
SNP_P4_23324_29129421	NC_021161.1	Ca_kabuli_chr02	29129421	TT	AA	1946759701
SNP_P4_23325_29129774	NC_021161.1	Ca_kabuli_chr02	29129774	GG	CC	1946759703
SNP_P4_23327_29142672	NC_021161.1	Ca_kabuli_chr02	29142672	CC	TT	1946759705
SNP_P4_23328_29142679	NC_021161.1	Ca_kabuli_chr02	29142679	CC	GG	1946759707
SNP_P4_23329_29142718	NC_021161.1	Ca_kabuli_chr02	29142718	TT	GG	1946759709
SNP_P4_23334_29215159	NC_021161.1	Ca_kabuli_chr02	29215159	TT	CC	1946759711
SNP_P4_23336_29215192	NC_021161.1	Ca_kabuli_chr02	29215192	TT	CC	1946759713
SNP_P4_23337_29215239	NC_021161.1	Ca_kabuli_chr02	29215239	TT	CC	1946759715

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_23339_29215730	NC_021161.1	Ca_kabuli_chr02	29215730	CC	TT	1946759719
SNP_P4_23340_29215736	NC_021161.1	Ca_kabuli_chr02	29215736	AA	GG	1946759721
SNP_P4_23341_29215751	NC_021161.1	Ca_kabuli_chr02	29215751	CC	GG	1946759723
SNP_P4_23342_29220141	NC_021161.1	Ca_kabuli_chr02	29220141	GG	AA	1946759725
SNP_P4_23347_29238615	NC_021161.1	Ca_kabuli_chr02	29238615	CC	TT	1946759727
SNP_P4_23348_29238681	NC_021161.1	Ca_kabuli_chr02	29238681	CC	TT	1946759729
SNP_P4_23349_29238699	NC_021161.1	Ca_kabuli_chr02	29238699	CC	GG	1946759731
SNP_P4_23350_29238721	NC_021161.1	Ca_kabuli_chr02	29238721	AA	TT	1946759733
SNP_P4_23351_29238778	NC_021161.1	Ca_kabuli_chr02	29238778	AA	GG	1946759735
SNP_P4_23352_29239142	NC_021161.1	Ca_kabuli_chr02	29239142	GG	TT	1946759737
SNP_P4_23353_29239175	NC_021161.1	Ca_kabuli_chr02	29239175	AA	GG	1946759739
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SNP_P4_23355_29239294	NC_021161.1	Ca_kabuli_chr02	29239294	AA	CC	1946759743
SNP_P4_23356_29239467	NC_021161.1	Ca_kabuli_chr02	29239467	GG	AA	1946759745
SNP_P4_23357_29239557	NC_021161.1	Ca_kabuli_chr02	29239557	GG	AA	1946759747
SNP_P4_23358_29239560	NC_021161.1	Ca_kabuli_chr02	29239560	GG	AA	1946759749
SNP_P4_23359_29239612	NC_021161.1	Ca_kabuli_chr02	29239612	GG	AA	1946759751
SNP_P4_23360_29239722	NC_021161.1	Ca_kabuli_chr02	29239722	CC	TT	1946759753
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SNP_P4_23362_29239857	NC_021161.1	Ca_kabuli_chr02	29239857	TT	CC	1946759757
SNP_P4_23363_29239937	NC_021161.1	Ca_kabuli_chr02	29239937	AA	GG	1946759759
SNP_P4_23364_29239956	NC_021161.1	Ca_kabuli_chr02	29239956	CC	TT	1946759761
SNP_P4_23367_29240164	NC_021161.1	Ca_kabuli_chr02	29240164	TT	CC	1946759763
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SNP_P4_23372_29240394	NC_021161.1	Ca_kabuli_chr02	29240394	CC	TT	1946759769
SNP_P4_23373_29240414	NC_021161.1	Ca_kabuli_chr02	29240414	GG	AA	1946759771
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SNP_P4_23376_29240513	NC_021161.1	Ca_kabuli_chr02	29240513	TT	CC	1946759775
SNP_P4_23377_29240527	NC_021161.1	Ca_kabuli_chr02	29240527	AA	GG	1946759777
SNP_P4_23378_29240641	NC_021161.1	Ca_kabuli_chr02	29240641	GG	TT	1946759779
SNP_P4_23379_29240647	NC_021161.1	Ca_kabuli_chr02	29240647	GG	AA	1946759781
SNP_P4_23380_29240660	NC_021161.1	Ca_kabuli_chr02	29240660	AA	GG	1946759783
SNP_P4_23381_29240674	NC_021161.1	Ca_kabuli_chr02	29240674	GG	AA	1946759785
SNP_P4_23382_29240808	NC_021161.1	Ca_kabuli_chr02	29240808	AA	TT	1946759787
SNP_P4_23383_29241002	NC_021161.1	Ca_kabuli_chr02	29241002	TT	AA	1946759789
SNP_P4_23384_29241003	NC_021161.1	Ca_kabuli_chr02	29241003	GG	TT	1946759791
SNP_P4_23386_29253002	NC_021161.1	Ca_kabuli_chr02	29253002	GG	AA	1946759793
SNP_P4_23387_29253155	NC_021161.1	Ca_kabuli_chr02	29253155	CC	TT	1946759795
SNP_P4_23388_29253467	NC_021161.1	Ca_kabuli_chr02	29253467	TT	CC	1946759797
SNP_P4_23389_29253493	NC_021161.1	Ca_kabuli_chr02	29253493	TT	CC	1946759799

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_23391_29278615	NC_021161.1	Ca_kabuli_chr02	29278615	CC	AA	1946759803
SNP_P4_23392_29278625	NC_021161.1	Ca_kabuli_chr02	29278625	GG	AA	1946759805
SNP_P4_23393_29278669	NC_021161.1	Ca_kabuli_chr02	29278669	TT	CC	1946759807
SNP_P4_23394_29278681	NC_021161.1	Ca_kabuli_chr02	29278681	GG	AA	1946759809
SNP_P4_23395_29278699	NC_021161.1	Ca_kabuli_chr02	29278699	GG	AA	1946759811
SNP_P4_23396_29278703	NC_021161.1	Ca_kabuli_chr02	29278703	CC	TT	1946759813
SNP_P4_23397_29278736	NC_021161.1	Ca_kabuli_chr02	29278736	GG	AA	1946759815
SNP_P4_23398_29278766	NC_021161.1	Ca_kabuli_chr02	29278766	CC	AA	1946759817
SNP_P4_23399_29278940	NC_021161.1	Ca_kabuli_chr02	29278940	TT	AA	1946759819
SNP_P4_23400_29279152	NC_021161.1	Ca_kabuli_chr02	29279152	GG	AA	1946759821
SNP_P4_23401_29279202	NC_021161.1	Ca_kabuli_chr02	29279202	AA	GG	1946759823
SNP_P4_23402_29279225	NC_021161.1	Ca_kabuli_chr02	29279225	TT	AA	1946759825
SNP_P4_23403_29279508	NC_021161.1	Ca_kabuli_chr02	29279508	TT	CC	1946759827
SNP_P4_23404_29289547	NC_021161.1	Ca_kabuli_chr02	29289547	AA	GG	1946759829
SNP_P4_23405_29289590	NC_021161.1	Ca_kabuli_chr02	29289590	AA	GG	1946759831
SNP_P4_23406_29314094	NC_021161.1	Ca_kabuli_chr02	29314094	GG	AA	1946759833
SNP_P4_23410_29369476	NC_021161.1	Ca_kabuli_chr02	29369476	AA	GG	1946759836
SNP_P4_23411_29409082	NC_021161.1	Ca_kabuli_chr02	29409082	TT	GG	1946759838
SNP_P4_23412_29411795	NC_021161.1	Ca_kabuli_chr02	29411795	AA	TT	1946759840
SNP_P4_23413_29412093	NC_021161.1	Ca_kabuli_chr02	29412093	AA	GG	1946759842
SNP_P4_23414_29412509	NC_021161.1	Ca_kabuli_chr02	29412509	GG	AA	1946759844
SNP_P4_23416_29412984	NC_021161.1	Ca_kabuli_chr02	29412984	AA	GG	1946759846
SNP_P4_23417_29416783	NC_021161.1	Ca_kabuli_chr02	29416783	GG	TT	1946759848
SNP_P4_23418_29416838	NC_021161.1	Ca_kabuli_chr02	29416838	AA	GG	1946759850
SNP_P4_23419_29416868	NC_021161.1	Ca_kabuli_chr02	29416868	GG	AA	1946759852
SNP_P4_23420_29417235	NC_021161.1	Ca_kabuli_chr02	29417235	GG	TT	1946759854
SNP_P4_23422_29418744	NC_021161.1	Ca_kabuli_chr02	29418744	AA	TT	1946759856
SNP_P4_23424_29444147	NC_021161.1	Ca_kabuli_chr02	29444147	TT	AA	1946759858
SNP_P4_23425_29444196	NC_021161.1	Ca_kabuli_chr02	29444196	AA	GG	1946759860
SNP_P4_23426_29444199	NC_021161.1	Ca_kabuli_chr02	29444199	TT	CC	1946759862
SNP_P4_23427_29444200	NC_021161.1	Ca_kabuli_chr02	29444200	GG	TT	1946759865
SNP_P4_23428_29444211	NC_021161.1	Ca_kabuli_chr02	29444211	CC	AA	1946759867
SNP_P4_23430_29444490	NC_021161.1	Ca_kabuli_chr02	29444490	AA	GG	1946759869
SNP_P4_23431_29444608	NC_021161.1	Ca_kabuli_chr02	29444608	AA	CC	1946759871
SNP_P4_23432_29445544	NC_021161.1	Ca_kabuli_chr02	29445544	TT	CC	1946759873
SNP_P4_23433_29445547	NC_021161.1	Ca_kabuli_chr02	29445547	CC	AA	1946759875
SNP_P4_23434_29445605	NC_021161.1	Ca_kabuli_chr02	29445605	GG	CC	1946759877
SNP_P4_23435_29445618	NC_021161.1	Ca_kabuli_chr02	29445618	GG	CC	1946759879
SNP_P4_23436_29445770	NC_021161.1	Ca_kabuli_chr02	29445770	AA	GG	1946759881
SNP_P4_23439_29446081	NC_021161.1	Ca_kabuli_chr02	29446081	AA	GG	1946759883
SNP_P4_23440_29446159	NC_021161.1	Ca_kabuli_chr02	29446159	GG	TT	1946759885

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_23443_29446272	NC_021161.1	Ca_kabuli_chr02	29446272	CC	AA	1946759891
SNP_P4_23444_29455002	NC_021161.1	Ca_kabuli_chr02	29455002	AA	TT	1946759893
SNP_P4_23445_29455003	NC_021161.1	Ca_kabuli_chr02	29455003	AA	GG	1946759895
SNP_P4_23446_29457288	NC_021161.1	Ca_kabuli_chr02	29457288	AA	GG	1946759897
SNP_P4_23447_29457422	NC_021161.1	Ca_kabuli_chr02	29457422	AA	GG	1946759899
SNP_P4_23449_29476849	NC_021161.1	Ca_kabuli_chr02	29476849	TT	AA	1946759901
SNP_P4_23450_29504345	NC_021161.1	Ca_kabuli_chr02	29504345	AA	GG	1946759903
SNP_P4_23451_29504350	NC_021161.1	Ca_kabuli_chr02	29504350	AA	CC	1946759905
SNP_P4_23452_29509668	NC_021161.1	Ca_kabuli_chr02	29509668	CC	TT	1946759907
SNP_P4_23453_29540635	NC_021161.1	Ca_kabuli_chr02	29540635	TT	AA	1946759909
SNP_P4_23455_29572304	NC_021161.1	Ca_kabuli_chr02	29572304	GG	AA	1946759911
SNP_P4_23456_29609575	NC_021161.1	Ca_kabuli_chr02	29609575	GG	CC	1946759913
SNP_P4_23457_29618464	NC_021161.1	Ca_kabuli_chr02	29618464	TT	GG	1946759915
SNP_P4_23458_29644870	NC_021161.1	Ca_kabuli_chr02	29644870	CC	AA	1946759917
SNP_P4_23459_29644871	NC_021161.1	Ca_kabuli_chr02	29644871	TT	CC	1946759919
SNP_P4_23460_29644872	NC_021161.1	Ca_kabuli_chr02	29644872	AA	TT	1946759921
SNP_P4_23461_29644885	NC_021161.1	Ca_kabuli_chr02	29644885	TT	AA	1946759923
SNP_P4_23462_29644900	NC_021161.1	Ca_kabuli_chr02	29644900	AA	CC	1946759925
SNP_P4_23463_29647507	NC_021161.1	Ca_kabuli_chr02	29647507	AA	CC	1946759927
SNP_P4_23464_29653559	NC_021161.1	Ca_kabuli_chr02	29653559	TT	CC	1946759929
SNP_P4_23465_29653667	NC_021161.1	Ca_kabuli_chr02	29653667	CC	TT	1946759931
SNP_P4_23466_29653901	NC_021161.1	Ca_kabuli_chr02	29653901	CC	AA	1946759933
SNP_P4_23467_29653913	NC_021161.1	Ca_kabuli_chr02	29653913	TT	CC	1946759935
SNP_P4_23469_29715934	NC_021161.1	Ca_kabuli_chr02	29715934	CC	TT	1946759937
SNP_P4_23472_29724981	NC_021161.1	Ca_kabuli_chr02	29724981	GG	AA	1946759939
SNP_P4_23473_29724982	NC_021161.1	Ca_kabuli_chr02	29724982	GG	AA	1946759941
SNP_P4_23474_29728297	NC_021161.1	Ca_kabuli_chr02	29728297	CC	AA	1946759943
SNP_P4_23475_29737529	NC_021161.1	Ca_kabuli_chr02	29737529	GG	AA	1946759945
SNP_P4_23476_29737657	NC_021161.1	Ca_kabuli_chr02	29737657	CC	TT	1946759947
SNP_P4_23477_29737689	NC_021161.1	Ca_kabuli_chr02	29737689	TT	CC	1946759949
SNP_P4_23478_29737749	NC_021161.1	Ca_kabuli_chr02	29737749	CC	TT	1946759951
SNP_P4_23479_29737750	NC_021161.1	Ca_kabuli_chr02	29737750	TT	CC	1946759953
SNP_P4_23480_29737889	NC_021161.1	Ca_kabuli_chr02	29737889	CC	TT	1946759955
SNP_P4_23481_29738013	NC_021161.1	Ca_kabuli_chr02	29738013	AA	CC	1946759957
SNP_P4_23482_29738016	NC_021161.1	Ca_kabuli_chr02	29738016	GG	AA	1946759959
SNP_P4_23483_29738028	NC_021161.1	Ca_kabuli_chr02	29738028	AA	GG	1946759961
SNP_P4_23484_29738092	NC_021161.1	Ca_kabuli_chr02	29738092	TT	CC	1946759963
SNP_P4_23485_29738100	NC_021161.1	Ca_kabuli_chr02	29738100	CC	TT	1946759966
SNP_P4_23486_29738109	NC_021161.1	Ca_kabuli_chr02	29738109	CC	AA	1946759968
SNP_P4_23487_29738141	NC_021161.1	Ca_kabuli_chr02	29738141	TT	CC	1946759970

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_23489_29738263	NC_021161.1	Ca_kabuli_chr02	29738263	TT	CC	1946759974
SNP_P4_23490_29739679	NC_021161.1	Ca_kabuli_chr02	29739679	TT	CC	1946759976
SNP_P4_23491_29742485	NC_021161.1	Ca_kabuli_chr02	29742485	AA	CC	1946759978
SNP_P4_23492_29757999	NC_021161.1	Ca_kabuli_chr02	29757999	GG	AA	1946759980
SNP_P4_23493_29775578	NC_021161.1	Ca_kabuli_chr02	29775578	AA	GG	1946759981
SNP_P4_23494_29775579	NC_021161.1	Ca_kabuli_chr02	29775579	TT	AA	1946759983
SNP_P4_23495_29779340	NC_021161.1	Ca_kabuli_chr02	29779340	AA	TT	1946759985
SNP_P4_23496_29783098	NC_021161.1	Ca_kabuli_chr02	29783098	TT	CC	1946759987
SNP_P4_23498_29799255	NC_021161.1	Ca_kabuli_chr02	29799255	TT	CC	1946759989
SNP_P4_23499_29828212	NC_021161.1	Ca_kabuli_chr02	29828212	CC	AA	1946759991
SNP_P4_23500_29829777	NC_021161.1	Ca_kabuli_chr02	29829777	TT	CC	1946759993
SNP_P4_23501_29829779	NC_021161.1	Ca_kabuli_chr02	29829779	TT	CC	1946759995
SNP_P4_23502_29829800	NC_021161.1	Ca_kabuli_chr02	29829800	TT	AA	1946759997
SNP_P4_23505_29834675	NC_021161.1	Ca_kabuli_chr02	29834675	AA	GG	1946759999
SNP_P4_23509_29856104	NC_021161.1	Ca_kabuli_chr02	29856104	CC	TT	1946760001
SNP_P4_23510_29868394	NC_021161.1	Ca_kabuli_chr02	29868394	TT	AA	1946760003
SNP_P4_23511_29868400	NC_021161.1	Ca_kabuli_chr02	29868400	CC	GG	1946760005
SNP_P4_23512_29872687	NC_021161.1	Ca_kabuli_chr02	29872687	GG	TT	1946760007
SNP_P4_23513_29872719	NC_021161.1	Ca_kabuli_chr02	29872719	CC	TT	1946760009
SNP_P4_23516_29912209	NC_021161.1	Ca_kabuli_chr02	29912209	CC	GG	1946760011
SNP_P4_23517_29942971	NC_021161.1	Ca_kabuli_chr02	29942971	AA	CC	1946760013
SNP_P4_23518_29961757	NC_021161.1	Ca_kabuli_chr02	29961757	CC	TT	1946760015
SNP_P4_23519_29962159	NC_021161.1	Ca_kabuli_chr02	29962159	AA	GG	1946760017
SNP_P4_23521_29962595	NC_021161.1	Ca_kabuli_chr02	29962595	CC	TT	1946760019
SNP_P4_23522_29962629	NC_021161.1	Ca_kabuli_chr02	29962629	CC	TT	1946760021
SNP_P4_23523_29962717	NC_021161.1	Ca_kabuli_chr02	29962717	GG	AA	1946760023
SNP_P4_23525_29962796	NC_021161.1	Ca_kabuli_chr02	29962796	AA	GG	1946760025
SNP_P4_23526_29962850	NC_021161.1	Ca_kabuli_chr02	29962850	CC	TT	1946760027
SNP_P4_23528_29963162	NC_021161.1	Ca_kabuli_chr02	29963162	GG	AA	1946760029
SNP_P4_23530_29964135	NC_021161.1	Ca_kabuli_chr02	29964135	CC	AA	1946760031
SNP_P4_23531_29964711	NC_021161.1	Ca_kabuli_chr02	29964711	TT	AA	1946760033
SNP_P4_23532_29967540	NC_021161.1	Ca_kabuli_chr02	29967540	TT	AA	1946760035
SNP_P4_23533_29993839	NC_021161.1	Ca_kabuli_chr02	29993839	CC	TT	1946760037
SNP_P4_23534_30040970	NC_021161.1	Ca_kabuli_chr02	30040970	TT	GG	1946760039
SNP_P4_23536_30054984	NC_021161.1	Ca_kabuli_chr02	30054984	GG	AA	1946760041
SNP_P4_23537_30054987	NC_021161.1	Ca_kabuli_chr02	30054987	TT	AA	1946760043
SNP_P4_23538_30057761	NC_021161.1	Ca_kabuli_chr02	30057761	TT	CC	1946760046
SNP_P4_23539_30058587	NC_021161.1	Ca_kabuli_chr02	30058587	CC	TT	1946760048
SNP_P4_23540_30058608	NC_021161.1	Ca_kabuli_chr02	30058608	GG	CC	1946760050
SNP_P4_23541_30058609	NC_021161.1	Ca_kabuli_chr02	30058609	GG	AA	1946760052
SNP_P4_23542_30058614	NC_021161.1	Ca_kabuli_chr02	30058614	TT	AA	1946760054

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_23545_30075931	NC_021161.1	Ca_kabuli_chr02	30075931	GG	AA	1946760058
SNP_P4_23546_30092875	NC_021161.1	Ca_kabuli_chr02	30092875	AA	CC	1946760060
SNP_P4_23547_30093700	NC_021161.1	Ca_kabuli_chr02	30093700	GG	AA	1946760062
SNP_P4_23548_30094917	NC_021161.1	Ca_kabuli_chr02	30094917	AA	TT	1946760064
SNP_P4_23549_30095148	NC_021161.1	Ca_kabuli_chr02	30095148	TT	AA	1946760066
SNP_P4_23550_30095150	NC_021161.1	Ca_kabuli_chr02	30095150	TT	CC	1946760068
SNP_P4_23551_30095622	NC_021161.1	Ca_kabuli_chr02	30095622	AA	GG	1946760070
SNP_P4_23555_30097122	NC_021161.1	Ca_kabuli_chr02	30097122	GG	AA	1946760072
SNP_P4_23556_30112419	NC_021161.1	Ca_kabuli_chr02	30112419	GG	AA	1946760074
SNP_P4_23559_30112621	NC_021161.1	Ca_kabuli_chr02	30112621	GG	AA	1946760076
SNP_P4_23560_30112661	NC_021161.1	Ca_kabuli_chr02	30112661	TT	GG	1946760078
SNP_P4_23561_30119446	NC_021161.1	Ca_kabuli_chr02	30119446	AA	GG	1946760080
SNP_P4_23563_30126013	NC_021161.1	Ca_kabuli_chr02	30126013	TT	AA	1946760082
SNP_P4_23564_30127869	NC_021161.1	Ca_kabuli_chr02	30127869	TT	AA	1946760084
SNP_P4_23565_30144442	NC_021161.1	Ca_kabuli_chr02	30144442	GG	AA	1946760086
SNP_P4_23566_30144493	NC_021161.1	Ca_kabuli_chr02	30144493	CC	AA	1946760088
SNP_P4_23567_30145231	NC_021161.1	Ca_kabuli_chr02	30145231	CC	GG	1946760090
SNP_P4_23568_30145319	NC_021161.1	Ca_kabuli_chr02	30145319	CC	TT	1946760092
SNP_P4_23569_30145378	NC_021161.1	Ca_kabuli_chr02	30145378	GG	AA	1946760094
SNP_P4_23570_30145428	NC_021161.1	Ca_kabuli_chr02	30145428	TT	CC	1946760096
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SNP_P4_23572_30146046	NC_021161.1	Ca_kabuli_chr02	30146046	GG	AA	1946760100
SNP_P4_23573_30146187	NC_021161.1	Ca_kabuli_chr02	30146187	GG	AA	1946760102
SNP_P4_23574_30146287	NC_021161.1	Ca_kabuli_chr02	30146287	CC	TT	1946760104
SNP_P4_23575_30146362	NC_021161.1	Ca_kabuli_chr02	30146362	CC	AA	1946760106
SNP_P4_23576_30146370	NC_021161.1	Ca_kabuli_chr02	30146370	TT	CC	1946760108
SNP_P4_23577_30146409	NC_021161.1	Ca_kabuli_chr02	30146409	CC	TT	1946760110
SNP_P4_23578_30146418	NC_021161.1	Ca_kabuli_chr02	30146418	CC	TT	1946760112
SNP_P4_23579_30146538	NC_021161.1	Ca_kabuli_chr02	30146538	AA	TT	1946760114
SNP_P4_23580_30147134	NC_021161.1	Ca_kabuli_chr02	30147134	CC	TT	1946760116
SNP_P4_23581_30147137	NC_021161.1	Ca_kabuli_chr02	30147137	CC	TT	1946760118
SNP_P4_23583_30147382	NC_021161.1	Ca_kabuli_chr02	30147382	GG	AA	1946760120
SNP_P4_23584_30147445	NC_021161.1	Ca_kabuli_chr02	30147445	TT	CC	1946760122
SNP_P4_23585_30164761	NC_021161.1	Ca_kabuli_chr02	30164761	TT	CC	1946760124
SNP_P4_23586_30164767	NC_021161.1	Ca_kabuli_chr02	30164767	CC	TT	1946760126
SNP_P4_23587_30164942	NC_021161.1	Ca_kabuli_chr02	30164942	TT	AA	1946760128
SNP_P4_23588_30164999	NC_021161.1	Ca_kabuli_chr02	30164999	GG	TT	1946760130
SNP_P4_23590_30165086	NC_021161.1	Ca_kabuli_chr02	30165086	TT	AA	1946760132
SNP_P4_23591_30165305	NC_021161.1	Ca_kabuli_chr02	30165305	GG	TT	1946760134
SNP_P4_23592_30165398	NC_021161.1	Ca_kabuli_chr02	30165398	TT	CC	1946760136
SNP_P4_23593_30165436	NC_021161.1	Ca_kabuli_chr02	30165436	TT	CC	1946760138

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_23596_30172924	NC_021161.1	Ca_kabuli_chr02	30172924	TT	CC	1946760144
SNP_P4_23598_30173468	NC_021161.1	Ca_kabuli_chr02	30173468	GG	AA	1946760146
SNP_P4_23599_30173519	NC_021161.1	Ca_kabuli_chr02	30173519	AA	TT	1946760148
SNP_P4_23600_30173984	NC_021161.1	Ca_kabuli_chr02	30173984	GG	AA	1946760151
SNP_P4_23602_30215692	NC_021161.1	Ca_kabuli_chr02	30215692	TT	CC	1946760153
SNP_P4_23603_30221406	NC_021161.1	Ca_kabuli_chr02	30221406	AA	GG	1946760155
SNP_P4_23606_30289430	NC_021161.1	Ca_kabuli_chr02	30289430	AA	GG	1946760157
SNP_P4_23607_30308703	NC_021161.1	Ca_kabuli_chr02	30308703	CC	TT	1946760159
SNP_P4_23608_30314548	NC_021161.1	Ca_kabuli_chr02	30314548	CC	TT	1946760161
SNP_P4_23609_30314576	NC_021161.1	Ca_kabuli_chr02	30314576	GG	AA	1946760163
SNP_P4_23610_30314594	NC_021161.1	Ca_kabuli_chr02	30314594	CC	TT	1946760165
SNP_P4_23611_30325617	NC_021161.1	Ca_kabuli_chr02	30325617	CC	TT	1946760167
SNP_P4_23612_30337220	NC_021161.1	Ca_kabuli_chr02	30337220	CC	TT	1946760169
SNP_P4_23613_30337599	NC_021161.1	Ca_kabuli_chr02	30337599	TT	GG	1946760171
SNP_P4_23614_30339203	NC_021161.1	Ca_kabuli_chr02	30339203	AA	GG	1946760173
SNP_P4_23615_30339844	NC_021161.1	Ca_kabuli_chr02	30339844	CC	AA	1946760175
SNP_P4_23616_30340150	NC_021161.1	Ca_kabuli_chr02	30340150	CC	TT	1946760178
SNP_P4_23617_30340165	NC_021161.1	Ca_kabuli_chr02	30340165	AA	TT	1946760180
SNP_P4_23619_30340563	NC_021161.1	Ca_kabuli_chr02	30340563	CC	TT	1946760182
SNP_P4_23620_30340740	NC_021161.1	Ca_kabuli_chr02	30340740	GG	AA	1946760184
SNP_P4_23621_30340794	NC_021161.1	Ca_kabuli_chr02	30340794	AA	TT	1946760186
SNP_P4_23623_30340875	NC_021161.1	Ca_kabuli_chr02	30340875	GG	CC	1946760188
SNP_P4_23625_30341566	NC_021161.1	Ca_kabuli_chr02	30341566	CC	TT	1946760190
SNP_P4_23627_30343233	NC_021161.1	Ca_kabuli_chr02	30343233	CC	TT	1946760192
SNP_P4_23630_30345055	NC_021161.1	Ca_kabuli_chr02	30345055	AA	GG	1946760194
SNP_P4_23631_30346177	NC_021161.1	Ca_kabuli_chr02	30346177	CC	TT	1946760196
SNP_P4_23632_30346588	NC_021161.1	Ca_kabuli_chr02	30346588	TT	GG	1946760198
SNP_P4_23633_30346607	NC_021161.1	Ca_kabuli_chr02	30346607	GG	AA	1946760200
SNP_P4_23634_30347927	NC_021161.1	Ca_kabuli_chr02	30347927	CC	TT	1946760202
SNP_P4_23635_30347942	NC_021161.1	Ca_kabuli_chr02	30347942	AA	GG	1946760204
SNP_P4_23636_30348022	NC_021161.1	Ca_kabuli_chr02	30348022	AA	GG	1946760206
SNP_P4_23637_30348176	NC_021161.1	Ca_kabuli_chr02	30348176	TT	CC	1946760208
SNP_P4_23638_30348286	NC_021161.1	Ca_kabuli_chr02	30348286	TT	CC	1946760210
SNP_P4_23639_30348320	NC_021161.1	Ca_kabuli_chr02	30348320	AA	TT	1946760212
SNP_P4_23640_30348324	NC_021161.1	Ca_kabuli_chr02	30348324	TT	AA	1946760214
SNP_P4_23641_30348342	NC_021161.1	Ca_kabuli_chr02	30348342	CC	TT	1946760216
SNP_P4_23642_30348615	NC_021161.1	Ca_kabuli_chr02	30348615	GG	AA	1946760218
SNP_P4_23643_30348895	NC_021161.1	Ca_kabuli_chr02	30348895	AA	CC	1946760220
SNP_P4_23645_30351255	NC_021161.1	Ca_kabuli_chr02	30351255	TT	AA	1946760222
SNP_P4_23646_30351266	NC_021161.1	Ca_kabuli_chr02	30351266	AA	GG	1946760224

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_23650_30355364	NC_021161.1	Ca_kabuli_chr02	30355364	GG	AA	1946760228
SNP_P4_23651_30355368	NC_021161.1	Ca_kabuli_chr02	30355368	TT	AA	1946760230
SNP_P4_23652_30355827	NC_021161.1	Ca_kabuli_chr02	30355827	AA	TT	1946760232
SNP_P4_23654_30358114	NC_021161.1	Ca_kabuli_chr02	30358114	TT	AA	1946760235
SNP_P4_23655_30358173	NC_021161.1	Ca_kabuli_chr02	30358173	CC	AA	1946760237
SNP_P4_23656_30358185	NC_021161.1	Ca_kabuli_chr02	30358185	TT	GG	1946760239
SNP_P4_23657_30358298	NC_021161.1	Ca_kabuli_chr02	30358298	TT	CC	1946760241
SNP_P4_23658_30358923	NC_021161.1	Ca_kabuli_chr02	30358923	GG	CC	1946760243
SNP_P4_23660_30360296	NC_021161.1	Ca_kabuli_chr02	30360296	CC	TT	1946760245
SNP_P4_23661_30360918	NC_021161.1	Ca_kabuli_chr02	30360918	AA	GG	1946760247
SNP_P4_23662_30360922	NC_021161.1	Ca_kabuli_chr02	30360922	GG	CC	1946760249
SNP_P4_23663_30361567	NC_021161.1	Ca_kabuli_chr02	30361567	AA	TT	1946760251
SNP_P4_23664_30361584	NC_021161.1	Ca_kabuli_chr02	30361584	GG	AA	1946760253
SNP_P4_23665_30361617	NC_021161.1	Ca_kabuli_chr02	30361617	AA	GG	1946760255
SNP_P4_23666_30363335	NC_021161.1	Ca_kabuli_chr02	30363335	CC	TT	1946760257
SNP_P4_23667_30364025	NC_021161.1	Ca_kabuli_chr02	30364025	CC	TT	1946760259
SNP_P4_23668_30364042	NC_021161.1	Ca_kabuli_chr02	30364042	GG	AA	1946760261
SNP_P4_23669_30364073	NC_021161.1	Ca_kabuli_chr02	30364073	AA	TT	1946760263
SNP_P4_23670_30364146	NC_021161.1	Ca_kabuli_chr02	30364146	TT	AA	1946760265
SNP_P4_23671_30364207	NC_021161.1	Ca_kabuli_chr02	30364207	TT	GG	1946760267
SNP_P4_23672_30364636	NC_021161.1	Ca_kabuli_chr02	30364636	CC	AA	1946760269
SNP_P4_23673_30364809	NC_021161.1	Ca_kabuli_chr02	30364809	CC	GG	1946760271
SNP_P4_23674_30364810	NC_021161.1	Ca_kabuli_chr02	30364810	AA	GG	1946760272
SNP_P4_23675_30364838	NC_021161.1	Ca_kabuli_chr02	30364838	TT	CC	1946760273
SNP_P4_23676_30364839	NC_021161.1	Ca_kabuli_chr02	30364839	AA	GG	1946760274
SNP_P4_23677_30364850	NC_021161.1	Ca_kabuli_chr02	30364850	AA	GG	1946760275
SNP_P4_23678_30364894	NC_021161.1	Ca_kabuli_chr02	30364894	GG	TT	1946760276
SNP_P4_23679_30364902	NC_021161.1	Ca_kabuli_chr02	30364902	TT	AA	1946760277
SNP_P4_23680_30365165	NC_021161.1	Ca_kabuli_chr02	30365165	CC	TT	1946760278
SNP_P4_23681_30365202	NC_021161.1	Ca_kabuli_chr02	30365202	CC	GG	1946760279
SNP_P4_23682_30365246	NC_021161.1	Ca_kabuli_chr02	30365246	AA	TT	1946760280
SNP_P4_23683_30365247	NC_021161.1	Ca_kabuli_chr02	30365247	CC	AA	1946760281
SNP_P4_23684_30365804	NC_021161.1	Ca_kabuli_chr02	30365804	TT	GG	1946760282
SNP_P4_23685_30367555	NC_021161.1	Ca_kabuli_chr02	30367555	GG	CC	1946760283
SNP_P4_23686_30367568	NC_021161.1	Ca_kabuli_chr02	30367568	AA	TT	1946760284
SNP_P4_23687_30367635	NC_021161.1	Ca_kabuli_chr02	30367635	CC	GG	1946760285
SNP_P4_23688_30369088	NC_021161.1	Ca_kabuli_chr02	30369088	AA	GG	1946760286
SNP_P4_23689_30369127	NC_021161.1	Ca_kabuli_chr02	30369127	CC	TT	1946760287
SNP_P4_23691_30369426	NC_021161.1	Ca_kabuli_chr02	30369426	AA	TT	1946760288
SNP_P4_23692_30369430	NC_021161.1	Ca_kabuli_chr02	30369430	GG	AA	1946760289
SNP_P4_23693_30370148	NC_021161.1	Ca_kabuli_chr02	30370148	TT	GG	1946760290

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_23695_30370950	NC_021161.1	Ca_kabuli_chr02	30370950	TT	AA	1946760292
SNP_P4_23696_30371673	NC_021161.1	Ca_kabuli_chr02	30371673	AA	GG	1946760293
SNP_P4_23697_30371674	NC_021161.1	Ca_kabuli_chr02	30371674	AA	GG	1946760294
SNP_P4_23698_30373821	NC_021161.1	Ca_kabuli_chr02	30373821	TT	GG	1946760295
SNP_P4_23699_30373889	NC_021161.1	Ca_kabuli_chr02	30373889	CC	TT	1946760296
SNP_P4_23700_30374252	NC_021161.1	Ca_kabuli_chr02	30374252	TT	CC	1946760297
SNP_P4_23702_30375948	NC_021161.1	Ca_kabuli_chr02	30375948	TT	CC	1946760298
SNP_P4_23703_30376327	NC_021161.1	Ca_kabuli_chr02	30376327	AA	TT	1946760299
SNP_P4_23704_30377267	NC_021161.1	Ca_kabuli_chr02	30377267	AA	CC	1946760300
SNP_P4_23705_30377268	NC_021161.1	Ca_kabuli_chr02	30377268	AA	CC	1946760301
SNP_P4_23706_30377276	NC_021161.1	Ca_kabuli_chr02	30377276	CC	GG	1946760302
SNP_P4_23707_30377643	NC_021161.1	Ca_kabuli_chr02	30377643	GG	TT	1946760303
SNP_P4_23708_30378470	NC_021161.1	Ca_kabuli_chr02	30378470	AA	GG	1946760304
SNP_P4_23709_30379817	NC_021161.1	Ca_kabuli_chr02	30379817	TT	GG	1946760305
SNP_P4_23710_30380106	NC_021161.1	Ca_kabuli_chr02	30380106	AA	TT	1946760306
SNP_P4_23711_30383045	NC_021161.1	Ca_kabuli_chr02	30383045	GG	AA	1946760308
SNP_P4_23712_30383109	NC_021161.1	Ca_kabuli_chr02	30383109	TT	CC	1946760310
SNP_P4_23713_30383139	NC_021161.1	Ca_kabuli_chr02	30383139	CC	AA	1946760312
SNP_P4_23714_30383215	NC_021161.1	Ca_kabuli_chr02	30383215	CC	GG	1946760314
SNP_P4_23715_30383237	NC_021161.1	Ca_kabuli_chr02	30383237	TT	AA	1946760316
SNP_P4_23716_30383262	NC_021161.1	Ca_kabuli_chr02	30383262	GG	AA	1946760318
SNP_P4_23717_30383469	NC_021161.1	Ca_kabuli_chr02	30383469	TT	CC	1946760320
SNP_P4_23718_30383502	NC_021161.1	Ca_kabuli_chr02	30383502	CC	TT	1946760322
SNP_P4_23719_30383529	NC_021161.1	Ca_kabuli_chr02	30383529	CC	TT	1946760324
SNP_P4_23720_30383536	NC_021161.1	Ca_kabuli_chr02	30383536	AA	GG	1946760326
SNP_P4_23721_30384191	NC_021161.1	Ca_kabuli_chr02	30384191	GG	AA	1946760328
SNP_P4_23722_30384344	NC_021161.1	Ca_kabuli_chr02	30384344	CC	TT	1946760330
SNP_P4_23723_30384347	NC_021161.1	Ca_kabuli_chr02	30384347	TT	CC	1946760332
SNP_P4_23724_30384383	NC_021161.1	Ca_kabuli_chr02	30384383	CC	TT	1946760334
SNP_P4_23725_30384393	NC_021161.1	Ca_kabuli_chr02	30384393	TT	CC	1946760336
SNP_P4_23726_30384442	NC_021161.1	Ca_kabuli_chr02	30384442	CC	GG	1946760338
SNP_P4_23727_30384443	NC_021161.1	Ca_kabuli_chr02	30384443	TT	CC	1946760340
SNP_P4_23728_30384467	NC_021161.1	Ca_kabuli_chr02	30384467	TT	GG	1946760342
SNP_P4_23729_30384489	NC_021161.1	Ca_kabuli_chr02	30384489	CC	TT	1946760345
SNP_P4_23730_30384502	NC_021161.1	Ca_kabuli_chr02	30384502	TT	GG	1946760347
SNP_P4_23731_30384745	NC_021161.1	Ca_kabuli_chr02	30384745	GG	TT	1946760349
SNP_P4_23732_30384757	NC_021161.1	Ca_kabuli_chr02	30384757	AA	GG	1946760351
SNP_P4_23733_30384785	NC_021161.1	Ca_kabuli_chr02	30384785	AA	GG	1946760353
SNP_P4_23734_30384810	NC_021161.1	Ca_kabuli_chr02	30384810	CC	TT	1946760355
SNP_P4_23735_30384819	NC_021161.1	Ca_kabuli_chr02	30384819	CC	TT	1946760357
SNP_P4_23736_30384821	NC_021161.1	Ca_kabuli_chr02	30384821	CC	GG	1946760359

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_23738_30384870	NC_021161.1	Ca_kabuli_chr02	30384870	TT	AA	1946760363
SNP_P4_23740_30385086	NC_021161.1	Ca_kabuli_chr02	30385086	GG	TT	1946760365
SNP_P4_23742_30385324	NC_021161.1	Ca_kabuli_chr02	30385324	AA	GG	1946760367
SNP_P4_23743_30385332	NC_021161.1	Ca_kabuli_chr02	30385332	AA	GG	1946760369
SNP_P4_23745_30385945	NC_021161.1	Ca_kabuli_chr02	30385945	CC	TT	1946760371
SNP_P4_23746_30385996	NC_021161.1	Ca_kabuli_chr02	30385996	AA	GG	1946760373
SNP_P4_23747_30386351	NC_021161.1	Ca_kabuli_chr02	30386351	CC	AA	1946760375
SNP_P4_23748_30386369	NC_021161.1	Ca_kabuli_chr02	30386369	AA	GG	1946760377
SNP_P4_23749_30386375	NC_021161.1	Ca_kabuli_chr02	30386375	TT	CC	1946760379
SNP_P4_23750_30386403	NC_021161.1	Ca_kabuli_chr02	30386403	TT	CC	1946760381
SNP_P4_23751_30386789	NC_021161.1	Ca_kabuli_chr02	30386789	AA	GG	1946760383
SNP_P4_23753_30389433	NC_021161.1	Ca_kabuli_chr02	30389433	TT	CC	1946760385
SNP_P4_23754_30389515	NC_021161.1	Ca_kabuli_chr02	30389515	AA	TT	1946760387
SNP_P4_23755_30389653	NC_021161.1	Ca_kabuli_chr02	30389653	AA	TT	1946760389
SNP_P4_23756_30389678	NC_021161.1	Ca_kabuli_chr02	30389678	GG	AA	1946760391
SNP_P4_23757_30389746	NC_021161.1	Ca_kabuli_chr02	30389746	CC	GG	1946760393
SNP_P4_23758_30389906	NC_021161.1	Ca_kabuli_chr02	30389906	TT	AA	1946760395
SNP_P4_23760_30390438	NC_021161.1	Ca_kabuli_chr02	30390438	CC	AA	1946760397
SNP_P4_23761_30393196	NC_021161.1	Ca_kabuli_chr02	30393196	GG	AA	1946760399
SNP_P4_23762_30393521	NC_021161.1	Ca_kabuli_chr02	30393521	CC	AA	1946760401
SNP_P4_23767_30394004	NC_021161.1	Ca_kabuli_chr02	30394004	TT	GG	1946760403
SNP_P4_23768_30394883	NC_021161.1	Ca_kabuli_chr02	30394883	GG	AA	1946760405
SNP_P4_23771_30395048	NC_021161.1	Ca_kabuli_chr02	30395048	GG	TT	1946760407
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SNP_P4_23778_30400702	NC_021161.1	Ca_kabuli_chr02	30400702	GG	AA	1946760415
SNP_P4_23779_30400717	NC_021161.1	Ca_kabuli_chr02	30400717	TT	CC	1946760417
SNP_P4_23782_30401648	NC_021161.1	Ca_kabuli_chr02	30401648	AA	GG	1946760420
SNP_P4_23783_30401652	NC_021161.1	Ca_kabuli_chr02	30401652	CC	TT	1946760422
SNP_P4_23784_30401653	NC_021161.1	Ca_kabuli_chr02	30401653	GG	AA	1946760424
SNP_P4_23786_30401943	NC_021161.1	Ca_kabuli_chr02	30401943	AA	TT	1946760426
SNP_P4_23787_30402037	NC_021161.1	Ca_kabuli_chr02	30402037	AA	TT	1946760428
SNP_P4_23788_30402071	NC_021161.1	Ca_kabuli_chr02	30402071	CC	TT	1946760430
SNP_P4_23790_30402137	NC_021161.1	Ca_kabuli_chr02	30402137	TT	CC	1946760432
SNP_P4_23791_30402186	NC_021161.1	Ca_kabuli_chr02	30402186	AA	TT	1946760434
SNP_P4_23792_30402875	NC_021161.1	Ca_kabuli_chr02	30402875	CC	TT	1946760436
SNP_P4_23793_30402905	NC_021161.1	Ca_kabuli_chr02	30402905	GG	TT	1946760438
SNP_P4_23796_30403620	NC_021161.1	Ca_kabuli_chr02	30403620	AA	TT	1946760440
SNP_P4_23797_30403642	NC_021161.1	Ca_kabuli_chr02	30403642	AA	TT	1946760442
SNP_P4_23798_30406267	NC_021161.1	Ca_kabuli_chr02	30406267	CC	TT	1946760444

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_23800_30407839	NC_021161.1	Ca_kabuli_chr02	30407839	CC	TT	1946760448
SNP_P4_23801_30407887	NC_021161.1	Ca_kabuli_chr02	30407887	TT	CC	1946760450
SNP_P4_23802_30407899	NC_021161.1	Ca_kabuli_chr02	30407899	CC	TT	1946760452
SNP_P4_23803_30410235	NC_021161.1	Ca_kabuli_chr02	30410235	CC	TT	1946760454
SNP_P4_23804_30410396	NC_021161.1	Ca_kabuli_chr02	30410396	AA	GG	1946760456
SNP_P4_23805_30410490	NC_021161.1	Ca_kabuli_chr02	30410490	GG	CC	1946760458
SNP_P4_23806_30410492	NC_021161.1	Ca_kabuli_chr02	30410492	CC	TT	1946760460
SNP_P4_23807_30410502	NC_021161.1	Ca_kabuli_chr02	30410502	CC	AA	1946760462
SNP_P4_23808_30410624	NC_021161.1	Ca_kabuli_chr02	30410624	GG	CC	1946760464
SNP_P4_23809_30410703	NC_021161.1	Ca_kabuli_chr02	30410703	CC	TT	1946760466
SNP_P4_23810_30410959	NC_021161.1	Ca_kabuli_chr02	30410959	AA	GG	1946760469
SNP_P4_23811_30410962	NC_021161.1	Ca_kabuli_chr02	30410962	TT	CC	1946760471
SNP_P4_23812_30411090	NC_021161.1	Ca_kabuli_chr02	30411090	AA	GG	1946760473
SNP_P4_23813_30411112	NC_021161.1	Ca_kabuli_chr02	30411112	AA	GG	1946760475
SNP_P4_23814_30411171	NC_021161.1	Ca_kabuli_chr02	30411171	AA	GG	1946760477
SNP_P4_23815_30411219	NC_021161.1	Ca_kabuli_chr02	30411219	TT	CC	1946760479
SNP_P4_23816_30411369	NC_021161.1	Ca_kabuli_chr02	30411369	CC	TT	1946760481
SNP_P4_23817_30411384	NC_021161.1	Ca_kabuli_chr02	30411384	AA	TT	1946760483
SNP_P4_23818_30411476	NC_021161.1	Ca_kabuli_chr02	30411476	CC	TT	1946760485
SNP_P4_23819_30411535	NC_021161.1	Ca_kabuli_chr02	30411535	TT	CC	1946760487
SNP_P4_23820_30411690	NC_021161.1	Ca_kabuli_chr02	30411690	TT	AA	1946760489
SNP_P4_23821_30412172	NC_021161.1	Ca_kabuli_chr02	30412172	CC	TT	1946760491
SNP_P4_23822_30412174	NC_021161.1	Ca_kabuli_chr02	30412174	AA	TT	1946760493
SNP_P4_23823_30412385	NC_021161.1	Ca_kabuli_chr02	30412385	GG	AA	1946760495
SNP_P4_23824_30412397	NC_021161.1	Ca_kabuli_chr02	30412397	TT	CC	1946760497
SNP_P4_23825_30414117	NC_021161.1	Ca_kabuli_chr02	30414117	TT	AA	1946760499
SNP_P4_23826_30414121	NC_021161.1	Ca_kabuli_chr02	30414121	TT	GG	1946760501
SNP_P4_23827_30415803	NC_021161.1	Ca_kabuli_chr02	30415803	GG	AA	1946760503
SNP_P4_23829_30416546	NC_021161.1	Ca_kabuli_chr02	30416546	CC	GG	1946760505
SNP_P4_23830_30416597	NC_021161.1	Ca_kabuli_chr02	30416597	CC	AA	1946760507
SNP_P4_23832_30418777	NC_021161.1	Ca_kabuli_chr02	30418777	CC	TT	1946760509
SNP_P4_23834_30421934	NC_021161.1	Ca_kabuli_chr02	30421934	TT	AA	1946760511
SNP_P4_23835_30423911	NC_021161.1	Ca_kabuli_chr02	30423911	GG	AA	1946760513
SNP_P4_23836_30429516	NC_021161.1	Ca_kabuli_chr02	30429516	TT	AA	1946760515
SNP_P4_23838_30432429	NC_021161.1	Ca_kabuli_chr02	30432429	GG	AA	1946760517
SNP_P4_23839_30432465	NC_021161.1	Ca_kabuli_chr02	30432465	GG	AA	1946760519
SNP_P4_23840_30433118	NC_021161.1	Ca_kabuli_chr02	30433118	AA	GG	1946760521
SNP_P4_23842_30433144	NC_021161.1	Ca_kabuli_chr02	30433144	TT	AA	1946760523
SNP_P4_23844_30433842	NC_021161.1	Ca_kabuli_chr02	30433842	CC	AA	1946760526
SNP_P4_23845_30434818	NC_021161.1	Ca_kabuli_chr02	30434818	CC	AA	1946760528
SNP_P4_23846_30434869	NC_021161.1	Ca_kabuli_chr02	30434869	TT	AA	1946760530

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_23847_30435096	NC_021161.1	Ca_kabuli_chr02	30435096	AA	CC	1946760531
SNP_P4_23848_30435132	NC_021161.1	Ca_kabuli_chr02	30435132	AA	CC	1946760532
SNP_P4_23849_30435214	NC_021161.1	Ca_kabuli_chr02	30435214	AA	CC	1946760534
SNP_P4_23850_30435217	NC_021161.1	Ca_kabuli_chr02	30435217	CC	TT	1946760536
SNP_P4_23851_30435276	NC_021161.1	Ca_kabuli_chr02	30435276	CC	GG	1946760538
SNP_P4_23852_30435491	NC_021161.1	Ca_kabuli_chr02	30435491	AA	TT	1946760540
SNP_P4_23853_30435540	NC_021161.1	Ca_kabuli_chr02	30435540	AA	TT	1946760542
SNP_P4_23854_30435541	NC_021161.1	Ca_kabuli_chr02	30435541	CC	TT	1946760545
SNP_P4_23855_30435551	NC_021161.1	Ca_kabuli_chr02	30435551	CC	TT	1946760547
SNP_P4_23856_30438581	NC_021161.1	Ca_kabuli_chr02	30438581	TT	GG	1946760549
SNP_P4_23857_30438668	NC_021161.1	Ca_kabuli_chr02	30438668	GG	TT	1946760551
SNP_P4_23858_30438914	NC_021161.1	Ca_kabuli_chr02	30438914	CC	TT	1946760553
SNP_P4_23860_30439424	NC_021161.1	Ca_kabuli_chr02	30439424	GG	AA	1946760555
SNP_P4_23861_30439677	NC_021161.1	Ca_kabuli_chr02	30439677	CC	TT	1946760557
SNP_P4_23862_30439852	NC_021161.1	Ca_kabuli_chr02	30439852	TT	AA	1946760559
SNP_P4_23863_30442712	NC_021161.1	Ca_kabuli_chr02	30442712	TT	GG	1946760561
SNP_P4_23864_30442722	NC_021161.1	Ca_kabuli_chr02	30442722	GG	CC	1946760563
SNP_P4_23865_30444636	NC_021161.1	Ca_kabuli_chr02	30444636	AA	GG	1946760565
SNP_P4_23866_30444668	NC_021161.1	Ca_kabuli_chr02	30444668	TT	AA	1946760567
SNP_P4_23869_30445537	NC_021161.1	Ca_kabuli_chr02	30445537	GG	AA	1946760569
SNP_P4_23870_30445550	NC_021161.1	Ca_kabuli_chr02	30445550	TT	CC	1946760571
SNP_P4_23871_30445606	NC_021161.1	Ca_kabuli_chr02	30445606	AA	CC	1946760573
SNP_P4_23872_30445766	NC_021161.1	Ca_kabuli_chr02	30445766	AA	CC	1946760575
SNP_P4_23873_30445774	NC_021161.1	Ca_kabuli_chr02	30445774	CC	TT	1946760577
SNP_P4_23874_30445788	NC_021161.1	Ca_kabuli_chr02	30445788	AA	GG	1946760579
SNP_P4_23875_30445799	NC_021161.1	Ca_kabuli_chr02	30445799	CC	TT	1946760581
SNP_P4_23876_30445815	NC_021161.1	Ca_kabuli_chr02	30445815	GG	AA	1946760583
SNP_P4_23878_30445995	NC_021161.1	Ca_kabuli_chr02	30445995	CC	TT	1946760585
SNP_P4_23879_30446005	NC_021161.1	Ca_kabuli_chr02	30446005	AA	GG	1946760587
SNP_P4_23880_30446006	NC_021161.1	Ca_kabuli_chr02	30446006	GG	AA	1946760589
SNP_P4_23881_30446015	NC_021161.1	Ca_kabuli_chr02	30446015	CC	TT	1946760591
SNP_P4_23882_30446144	NC_021161.1	Ca_kabuli_chr02	30446144	TT	AA	1946760593
SNP_P4_23883_30446268	NC_021161.1	Ca_kabuli_chr02	30446268	TT	AA	1946760595
SNP_P4_23884_30446269	NC_021161.1	Ca_kabuli_chr02	30446269	GG	AA	1946760597
SNP_P4_23885_30446836	NC_021161.1	Ca_kabuli_chr02	30446836	AA	GG	1946760599
SNP_P4_23886_30446849	NC_021161.1	Ca_kabuli_chr02	30446849	GG	AA	1946760601
SNP_P4_23887_30446850	NC_021161.1	Ca_kabuli_chr02	30446850	TT	CC	1946760603
SNP_P4_23888_30446858	NC_021161.1	Ca_kabuli_chr02	30446858	AA	GG	1946760605
SNP_P4_23889_30446878	NC_021161.1	Ca_kabuli_chr02	30446878	AA	GG	1946760607
SNP_P4_23891_30447387	NC_021161.1	Ca_kabuli_chr02	30447387	AA	CC	1946760609
SNP_P4_23892_30447401	NC_021161.1	Ca_kabuli_chr02	30447401	GG	TT	1946760611
SNP_P4_23895_30448041	NC_021161.1	Ca_kabuli_chr02	30448041	CC	AA	1946760613

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_23896_30448155	NC_021161.1	Ca_kabuli_chr02	30448155	CC	GG	1946760615
SNP_P4_23897_30448257	NC_021161.1	Ca_kabuli_chr02	30448257	GG	AA	1946760617
SNP_P4_23898_30448266	NC_021161.1	Ca_kabuli_chr02	30448266	GG	TT	1946760619
SNP_P4_23899_30448273	NC_021161.1	Ca_kabuli_chr02	30448273	TT	AA	1946760621
SNP_P4_23901_30448408	NC_021161.1	Ca_kabuli_chr02	30448408	AA	TT	1946760623
SNP_P4_23902_30448416	NC_021161.1	Ca_kabuli_chr02	30448416	TT	CC	1946760625
SNP_P4_23903_30448824	NC_021161.1	Ca_kabuli_chr02	30448824	TT	GG	1946760627
SNP_P4_23905_30449003	NC_021161.1	Ca_kabuli_chr02	30449003	CC	TT	1946760629
SNP_P4_23906_30449144	NC_021161.1	Ca_kabuli_chr02	30449144	CC	TT	1946760631
SNP_P4_23908_30449269	NC_021161.1	Ca_kabuli_chr02	30449269	GG	AA	1946760633
SNP_P4_23909_30449286	NC_021161.1	Ca_kabuli_chr02	30449286	AA	TT	1946760635
SNP_P4_23910_30449292	NC_021161.1	Ca_kabuli_chr02	30449292	CC	TT	1946760637
SNP_P4_23911_30449347	NC_021161.1	Ca_kabuli_chr02	30449347	TT	AA	1946760639
SNP_P4_23912_30449574	NC_021161.1	Ca_kabuli_chr02	30449574	AA	TT	1946760641
SNP_P4_23913_30449611	NC_021161.1	Ca_kabuli_chr02	30449611	TT	CC	1946760643
SNP_P4_23914_30449612	NC_021161.1	Ca_kabuli_chr02	30449612	CC	TT	1946760645
SNP_P4_23915_30449629	NC_021161.1	Ca_kabuli_chr02	30449629	CC	TT	1946760647
SNP_P4_23916_30449639	NC_021161.1	Ca_kabuli_chr02	30449639	CC	TT	1946760649
SNP_P4_23917_30449745	NC_021161.1	Ca_kabuli_chr02	30449745	GG	AA	1946760651
SNP_P4_23918_30449924	NC_021161.1	Ca_kabuli_chr02	30449924	GG	AA	1946760653
SNP_P4_23919_30449934	NC_021161.1	Ca_kabuli_chr02	30449934	AA	TT	1946760655
SNP_P4_23920_30450135	NC_021161.1	Ca_kabuli_chr02	30450135	AA	GG	1946760657
SNP_P4_23921_30450139	NC_021161.1	Ca_kabuli_chr02	30450139	TT	CC	1946760659
SNP_P4_23922_30450156	NC_021161.1	Ca_kabuli_chr02	30450156	GG	CC	1946760661
SNP_P4_23923_30450168	NC_021161.1	Ca_kabuli_chr02	30450168	AA	GG	1946760663
SNP_P4_23924_30450178	NC_021161.1	Ca_kabuli_chr02	30450178	TT	AA	1946760665
SNP_P4_23925_30450355	NC_021161.1	Ca_kabuli_chr02	30450355	GG	AA	1946760667
SNP_P4_23926_30450437	NC_021161.1	Ca_kabuli_chr02	30450437	TT	AA	1946760669
SNP_P4_23927_30450477	NC_021161.1	Ca_kabuli_chr02	30450477	AA	GG	1946760671
SNP_P4_23928_30450485	NC_021161.1	Ca_kabuli_chr02	30450485	CC	GG	1946760673
SNP_P4_23929_30450895	NC_021161.1	Ca_kabuli_chr02	30450895	CC	TT	1946760676
SNP_P4_23930_30457479	NC_021161.1	Ca_kabuli_chr02	30457479	TT	CC	1946760678
SNP_P4_23931_30457497	NC_021161.1	Ca_kabuli_chr02	30457497	CC	TT	1946760680
SNP_P4_23932_30457498	NC_021161.1	Ca_kabuli_chr02	30457498	CC	GG	1946760682
SNP_P4_23933_30457530	NC_021161.1	Ca_kabuli_chr02	30457530	GG	AA	1946760684
SNP_P4_23935_30459368	NC_021161.1	Ca_kabuli_chr02	30459368	TT	CC	1946760686
SNP_P4_23936_30459369	NC_021161.1	Ca_kabuli_chr02	30459369	TT	CC	1946760688
SNP_P4_23938_30460193	NC_021161.1	Ca_kabuli_chr02	30460193	TT	GG	1946760690
SNP_P4_23943_30462945	NC_021161.1	Ca_kabuli_chr02	30462945	AA	GG	1946760692
SNP_P4_23944_30462959	NC_021161.1	Ca_kabuli_chr02	30462959	TT	AA	1946760694
SNP_P4_23945_30462986	NC_021161.1	Ca_kabuli_chr02	30462986	TT	CC	1946760696
SNP_P4_23946_30462997	NC_021161.1	Ca_kabuli_chr02	30462997	GG	TT	1946760698

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_23948_30464084	NC_021161.1	Ca_kabuli_chr02	30464084	TT	CC	1946760700
SNP_P4_23951_30464384	NC_021161.1	Ca_kabuli_chr02	30464384	AA	GG	1946760702
SNP_P4_23952_30464878	NC_021161.1	Ca_kabuli_chr02	30464878	TT	CC	1946760704
SNP_P4_23953_30465903	NC_021161.1	Ca_kabuli_chr02	30465903	AA	TT	1946760706
SNP_P4_23955_30466451	NC_021161.1	Ca_kabuli_chr02	30466451	AA	CC	1946760708
SNP_P4_23956_30468535	NC_021161.1	Ca_kabuli_chr02	30468535	CC	TT	1946760710
SNP_P4_23957_30475534	NC_021161.1	Ca_kabuli_chr02	30475534	CC	AA	1946760713
SNP_P4_23958_30475542	NC_021161.1	Ca_kabuli_chr02	30475542	TT	GG	1946760715
SNP_P4_23959_30476459	NC_021161.1	Ca_kabuli_chr02	30476459	TT	CC	1946760717
SNP_P4_23961_30476775	NC_021161.1	Ca_kabuli_chr02	30476775	CC	TT	1946760719
SNP_P4_23963_30478180	NC_021161.1	Ca_kabuli_chr02	30478180	CC	GG	1946760721
SNP_P4_23964_30478193	NC_021161.1	Ca_kabuli_chr02	30478193	GG	AA	1946760723
SNP_P4_23965_30478210	NC_021161.1	Ca_kabuli_chr02	30478210	TT	CC	1946760725
SNP_P4_23966_30478472	NC_021161.1	Ca_kabuli_chr02	30478472	AA	GG	1946760727
SNP_P4_23967_30478497	NC_021161.1	Ca_kabuli_chr02	30478497	TT	CC	1946760729
SNP_P4_23968_30478571	NC_021161.1	Ca_kabuli_chr02	30478571	GG	AA	1946760731
SNP_P4_23969_30478822	NC_021161.1	Ca_kabuli_chr02	30478822	CC	GG	1946760733
SNP_P4_23970_30478833	NC_021161.1	Ca_kabuli_chr02	30478833	GG	AA	1946760735
SNP_P4_23972_30479460	NC_021161.1	Ca_kabuli_chr02	30479460	AA	GG	1946760737
SNP_P4_23973_30480837	NC_021161.1	Ca_kabuli_chr02	30480837	GG	CC	1946760739
SNP_P4_23975_30481780	NC_021161.1	Ca_kabuli_chr02	30481780	CC	GG	1946760741
SNP_P4_23976_30481951	NC_021161.1	Ca_kabuli_chr02	30481951	TT	CC	1946760743
SNP_P4_23980_30484808	NC_021161.1	Ca_kabuli_chr02	30484808	AA	CC	1946760745
SNP_P4_23982_30485106	NC_021161.1	Ca_kabuli_chr02	30485106	TT	CC	1946760747
SNP_P4_23983_30485152	NC_021161.1	Ca_kabuli_chr02	30485152	GG	TT	1946760749
SNP_P4_23984_30485195	NC_021161.1	Ca_kabuli_chr02	30485195	AA	GG	1946760751
SNP_P4_23985_30485203	NC_021161.1	Ca_kabuli_chr02	30485203	AA	GG	1946760754
SNP_P4_23986_30487707	NC_021161.1	Ca_kabuli_chr02	30487707	AA	GG	1946760756
SNP_P4_23987_30487965	NC_021161.1	Ca_kabuli_chr02	30487965	CC	TT	1946760758
SNP_P4_23988_30487981	NC_021161.1	Ca_kabuli_chr02	30487981	TT	CC	1946760760
SNP_P4_23989_30488719	NC_021161.1	Ca_kabuli_chr02	30488719	CC	AA	1946760762
SNP_P4_23990_30488992	NC_021161.1	Ca_kabuli_chr02	30488992	AA	GG	1946760764
SNP_P4_23991_30489742	NC_021161.1	Ca_kabuli_chr02	30489742	CC	TT	1946760766
SNP_P4_23992_30489751	NC_021161.1	Ca_kabuli_chr02	30489751	GG	AA	1946760768
SNP_P4_23993_30489763	NC_021161.1	Ca_kabuli_chr02	30489763	TT	CC	1946760770
SNP_P4_23994_30489764	NC_021161.1	Ca_kabuli_chr02	30489764	AA	TT	1946760772
SNP_P4_23995_30490049	NC_021161.1	Ca_kabuli_chr02	30490049	AA	GG	1946760774
SNP_P4_23997_30490124	NC_021161.1	Ca_kabuli_chr02	30490124	GG	AA	1946760776
SNP_P4_23998_30490125	NC_021161.1	Ca_kabuli_chr02	30490125	GG	AA	1946760778
SNP_P4_23999_30490139	NC_021161.1	Ca_kabuli_chr02	30490139	CC	TT	1946760780
SNP_P4_24000_30490283	NC_021161.1	Ca_kabuli_chr02	30490283	AA	TT	1946760782
SNP_P4_24002_30490324	NC_021161.1	Ca_kabuli_chr02	30490324	TT	AA	1946760784

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_24003_30490334	NC_021161.1	Ca_kabuli_chr02	30490334	AA	GG	1946760786
SNP_P4_24006_30490437	NC_021161.1	Ca_kabuli_chr02	30490437	AA	GG	1946760788
SNP_P4_24007_30490584	NC_021161.1	Ca_kabuli_chr02	30490584	AA	TT	1946760790
SNP_P4_24008_30490585	NC_021161.1	Ca_kabuli_chr02	30490585	GG	AA	1946760792
SNP_P4_24009_30490617	NC_021161.1	Ca_kabuli_chr02	30490617	TT	CC	1946760794
SNP_P4_24010_30490630	NC_021161.1	Ca_kabuli_chr02	30490630	TT	GG	1946760796
SNP_P4_24011_30490715	NC_021161.1	Ca_kabuli_chr02	30490715	CC	GG	1946760798
SNP_P4_24012_30490717	NC_021161.1	Ca_kabuli_chr02	30490717	GG	CC	1946760800
SNP_P4_24013_30490958	NC_021161.1	Ca_kabuli_chr02	30490958	CC	GG	1946760803
SNP_P4_24014_30490994	NC_021161.1	Ca_kabuli_chr02	30490994	GG	CC	1946760805
SNP_P4_24015_30491027	NC_021161.1	Ca_kabuli_chr02	30491027	AA	CC	1946760807
SNP_P4_24016_30491147	NC_021161.1	Ca_kabuli_chr02	30491147	TT	CC	1946760809
SNP_P4_24017_30491360	NC_021161.1	Ca_kabuli_chr02	30491360	AA	GG	1946760811
SNP_P4_24018_30491375	NC_021161.1	Ca_kabuli_chr02	30491375	TT	CC	1946760813
SNP_P4_24019_30491376	NC_021161.1	Ca_kabuli_chr02	30491376	TT	CC	1946760815
SNP_P4_24020_30493894	NC_021161.1	Ca_kabuli_chr02	30493894	AA	CC	1946760817
SNP_P4_24021_30493930	NC_021161.1	Ca_kabuli_chr02	30493930	AA	CC	1946760819
SNP_P4_24022_30494139	NC_021161.1	Ca_kabuli_chr02	30494139	CC	TT	1946760821
SNP_P4_24023_30494179	NC_021161.1	Ca_kabuli_chr02	30494179	CC	TT	1946760823
SNP_P4_24024_30494323	NC_021161.1	Ca_kabuli_chr02	30494323	AA	GG	1946760825
SNP_P4_24025_30494510	NC_021161.1	Ca_kabuli_chr02	30494510	GG	AA	1946760827
SNP_P4_24026_30494515	NC_021161.1	Ca_kabuli_chr02	30494515	TT	CC	1946760829
SNP_P4_24028_30494892	NC_021161.1	Ca_kabuli_chr02	30494892	TT	CC	1946760832
SNP_P4_24029_30494906	NC_021161.1	Ca_kabuli_chr02	30494906	TT	CC	1946760834
SNP_P4_24030_30500037	NC_021161.1	Ca_kabuli_chr02	30500037	TT	CC	1946760836
SNP_P4_24031_30500098	NC_021161.1	Ca_kabuli_chr02	30500098	AA	GG	1946760838
SNP_P4_24033_30500305	NC_021161.1	Ca_kabuli_chr02	30500305	TT	AA	1946760840
SNP_P4_24034_30500318	NC_021161.1	Ca_kabuli_chr02	30500318	TT	AA	1946760842
SNP_P4_24035_30500387	NC_021161.1	Ca_kabuli_chr02	30500387	GG	AA	1946760844
SNP_P4_24036_30500423	NC_021161.1	Ca_kabuli_chr02	30500423	TT	CC	1946760846
SNP_P4_24037_30500540	NC_021161.1	Ca_kabuli_chr02	30500540	TT	CC	1946760848
SNP_P4_24038_30500623	NC_021161.1	Ca_kabuli_chr02	30500623	AA	GG	1946760850
SNP_P4_24039_30500631	NC_021161.1	Ca_kabuli_chr02	30500631	GG	AA	1946760852
SNP_P4_24040_30504942	NC_021161.1	Ca_kabuli_chr02	30504942	TT	GG	1946760854
SNP_P4_24041_30506388	NC_021161.1	Ca_kabuli_chr02	30506388	AA	TT	1946760856
SNP_P4_24042_30507461	NC_021161.1	Ca_kabuli_chr02	30507461	TT	CC	1946760858
SNP_P4_24043_30508706	NC_021161.1	Ca_kabuli_chr02	30508706	CC	TT	1946760860
SNP_P4_24044_30508738	NC_021161.1	Ca_kabuli_chr02	30508738	GG	CC	1946760862
SNP_P4_24045_30509674	NC_021161.1	Ca_kabuli_chr02	30509674	GG	TT	1946760864
SNP_P4_24046_30509993	NC_021161.1	Ca_kabuli_chr02	30509993	GG	AA	1946760866
SNP_P4_24047_30510062	NC_021161.1	Ca_kabuli_chr02	30510062	TT	AA	1946760868
SNP_P4_24048_30510100	NC_021161.1	Ca_kabuli_chr02	30510100	TT	CC	1946760870

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_24052_30511036	NC_021161.1	Ca_kabuli_chr02	30511036	GG	AA	1946760874
SNP_P4_24053_30512082	NC_021161.1	Ca_kabuli_chr02	30512082	CC	TT	1946760876
SNP_P4_24054_30512103	NC_021161.1	Ca_kabuli_chr02	30512103	GG	TT	1946760878
SNP_P4_24055_30512126	NC_021161.1	Ca_kabuli_chr02	30512126	CC	TT	1946760880
SNP_P4_24056_30513179	NC_021161.1	Ca_kabuli_chr02	30513179	CC	AA	1946760882
SNP_P4_24057_30513873	NC_021161.1	Ca_kabuli_chr02	30513873	GG	TT	1946760884
SNP_P4_24059_30514176	NC_021161.1	Ca_kabuli_chr02	30514176	GG	AA	1946760886
SNP_P4_24060_30514248	NC_021161.1	Ca_kabuli_chr02	30514248	CC	AA	1946760888
SNP_P4_24061_30516097	NC_021161.1	Ca_kabuli_chr02	30516097	CC	TT	1946760890
SNP_P4_24063_30516144	NC_021161.1	Ca_kabuli_chr02	30516144	CC	TT	1946760892
SNP_P4_24065_30517251	NC_021161.1	Ca_kabuli_chr02	30517251	AA	GG	1946760894
SNP_P4_24067_30521350	NC_021161.1	Ca_kabuli_chr02	30521350	CC	TT	1946760896
SNP_P4_24069_30521367	NC_021161.1	Ca_kabuli_chr02	30521367	AA	TT	1946760898
SNP_P4_24070_30521544	NC_021161.1	Ca_kabuli_chr02	30521544	GG	AA	1946760900
SNP_P4_24072_30522314	NC_021161.1	Ca_kabuli_chr02	30522314	AA	GG	1946760902
SNP_P4_24074_30522350	NC_021161.1	Ca_kabuli_chr02	30522350	CC	AA	1946760904
SNP_P4_24075_30523076	NC_021161.1	Ca_kabuli_chr02	30523076	TT	CC	1946760906
SNP_P4_24077_30523282	NC_021161.1	Ca_kabuli_chr02	30523282	GG	AA	1946760908
SNP_P4_24079_30526519	NC_021161.1	Ca_kabuli_chr02	30526519	GG	AA	1946760910
SNP_P4_24080_30526904	NC_021161.1	Ca_kabuli_chr02	30526904	AA	CC	1946760912
SNP_P4_24081_30526953	NC_021161.1	Ca_kabuli_chr02	30526953	TT	GG	1946760914
SNP_P4_24082_30526959	NC_021161.1	Ca_kabuli_chr02	30526959	TT	GG	1946760916
SNP_P4_24085_30527063	NC_021161.1	Ca_kabuli_chr02	30527063	AA	TT	1946760918
SNP_P4_24087_30527311	NC_021161.1	Ca_kabuli_chr02	30527311	TT	CC	1946760920
SNP_P4_24088_30527434	NC_021161.1	Ca_kabuli_chr02	30527434	AA	GG	1946760922
SNP_P4_24089_30527720	NC_021161.1	Ca_kabuli_chr02	30527720	GG	TT	1946760924
SNP_P4_24090_30537953	NC_021161.1	Ca_kabuli_chr02	30537953	CC	TT	1946760926
SNP_P4_24091_30538323	NC_021161.1	Ca_kabuli_chr02	30538323	TT	CC	1946760928
SNP_P4_24092_30538325	NC_021161.1	Ca_kabuli_chr02	30538325	AA	CC	1946760930
SNP_P4_24093_30538406	NC_021161.1	Ca_kabuli_chr02	30538406	CC	AA	1946760932
SNP_P4_24094_30538501	NC_021161.1	Ca_kabuli_chr02	30538501	CC	AA	1946760934
SNP_P4_24095_30538519	NC_021161.1	Ca_kabuli_chr02	30538519	GG	TT	1946760936
SNP_P4_24096_30546812	NC_021161.1	Ca_kabuli_chr02	30546812	AA	GG	1946760938
SNP_P4_24097_30546838	NC_021161.1	Ca_kabuli_chr02	30546838	CC	TT	1946760940
SNP_P4_24098_30547176	NC_021161.1	Ca_kabuli_chr02	30547176	CC	TT	1946760942
SNP_P4_24099_30547184	NC_021161.1	Ca_kabuli_chr02	30547184	AA	GG	1946760944
SNP_P4_24100_30547255	NC_021161.1	Ca_kabuli_chr02	30547255	AA	GG	1946760946
SNP_P4_24101_30548814	NC_021161.1	Ca_kabuli_chr02	30548814	GG	CC	1946760948
SNP_P4_24102_30549060	NC_021161.1	Ca_kabuli_chr02	30549060	CC	TT	1946760950
SNP_P4_24103_30549747	NC_021161.1	Ca_kabuli_chr02	30549747	GG	AA	1946760952
SNP_P4_24104_30549756	NC_021161.1	Ca_kabuli_chr02	30549756	AA	CC	1946760954

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_24108_30550147	NC_021161.1	Ca_kabuli_chr02	30550147	AA	GG	1946760959
SNP_P4_24110_30550184	NC_021161.1	Ca_kabuli_chr02	30550184	GG	TT	1946760961
SNP_P4_24112_30550831	NC_021161.1	Ca_kabuli_chr02	30550831	CC	TT	1946760963
SNP_P4_24113_30552250	NC_021161.1	Ca_kabuli_chr02	30552250	AA	GG	1946760965
SNP_P4_24114_30552469	NC_021161.1	Ca_kabuli_chr02	30552469	AA	GG	1946760967
SNP_P4_24115_30552477	NC_021161.1	Ca_kabuli_chr02	30552477	CC	TT	1946760969
SNP_P4_24116_30552502	NC_021161.1	Ca_kabuli_chr02	30552502	CC	AA	1946760971
SNP_P4_24118_30553360	NC_021161.1	Ca_kabuli_chr02	30553360	AA	GG	1946760973
SNP_P4_24120_30553439	NC_021161.1	Ca_kabuli_chr02	30553439	CC	AA	1946760975
SNP_P4_24121_30553442	NC_021161.1	Ca_kabuli_chr02	30553442	GG	CC	1946760977
SNP_P4_24122_30553645	NC_021161.1	Ca_kabuli_chr02	30553645	TT	CC	1946760979
SNP_P4_24123_30553658	NC_021161.1	Ca_kabuli_chr02	30553658	AA	GG	1946760981
SNP_P4_24125_30553965	NC_021161.1	Ca_kabuli_chr02	30553965	AA	GG	1946760983
SNP_P4_24126_30554108	NC_021161.1	Ca_kabuli_chr02	30554108	AA	TT	1946760985
SNP_P4_24127_30554115	NC_021161.1	Ca_kabuli_chr02	30554115	GG	AA	1946760987
SNP_P4_24129_30554271	NC_021161.1	Ca_kabuli_chr02	30554271	CC	TT	1946760989
SNP_P4_24130_30554286	NC_021161.1	Ca_kabuli_chr02	30554286	CC	TT	1946760991
SNP_P4_24131_30556045	NC_021161.1	Ca_kabuli_chr02	30556045	AA	CC	1946760993
SNP_P4_24132_30556258	NC_021161.1	Ca_kabuli_chr02	30556258	AA	GG	1946760995
SNP_P4_24133_30556285	NC_021161.1	Ca_kabuli_chr02	30556285	TT	CC	1946760997
SNP_P4_24134_30556297	NC_021161.1	Ca_kabuli_chr02	30556297	AA	GG	1946760999
SNP_P4_24135_30556355	NC_021161.1	Ca_kabuli_chr02	30556355	AA	GG	1946761001
SNP_P4_24136_30556392	NC_021161.1	Ca_kabuli_chr02	30556392	AA	GG	1946761003
SNP_P4_24137_30556556	NC_021161.1	Ca_kabuli_chr02	30556556	TT	CC	1946761005
SNP_P4_24138_30556570	NC_021161.1	Ca_kabuli_chr02	30556570	GG	AA	1946761007
SNP_P4_24139_30556572	NC_021161.1	Ca_kabuli_chr02	30556572	TT	GG	1946761009
SNP_P4_24140_30556612	NC_021161.1	Ca_kabuli_chr02	30556612	GG	AA	1946761011
SNP_P4_24141_30556628	NC_021161.1	Ca_kabuli_chr02	30556628	AA	GG	1946761013
SNP_P4_24142_30556686	NC_021161.1	Ca_kabuli_chr02	30556686	AA	GG	1946761015
SNP_P4_24143_30558747	NC_021161.1	Ca_kabuli_chr02	30558747	TT	AA	1946761017
SNP_P4_24144_30558837	NC_021161.1	Ca_kabuli_chr02	30558837	TT	CC	1946761019
SNP_P4_24148_30559430	NC_021161.1	Ca_kabuli_chr02	30559430	GG	TT	1946761021
SNP_P4_24149_30559511	NC_021161.1	Ca_kabuli_chr02	30559511	TT	AA	1946761023
SNP_P4_24150_30559918	NC_021161.1	Ca_kabuli_chr02	30559918	GG	AA	1946761025
SNP_P4_24151_30559998	NC_021161.1	Ca_kabuli_chr02	30559998	CC	TT	1946761027
SNP_P4_24152_30560034	NC_021161.1	Ca_kabuli_chr02	30560034	CC	TT	1946761029
SNP_P4_24153_30560037	NC_021161.1	Ca_kabuli_chr02	30560037	GG	AA	1946761031
SNP_P4_24154_30560068	NC_021161.1	Ca_kabuli_chr02	30560068	AA	GG	1946761033
SNP_P4_24155_30560083	NC_021161.1	Ca_kabuli_chr02	30560083	AA	GG	1946761035
SNP_P4_24156_30563084	NC_021161.1	Ca_kabuli_chr02	30563084	CC	TT	1946761037
SNP_P4_24157_30563100	NC_021161.1	Ca_kabuli_chr02	30563100	AA	CC	1946761039

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_24159_30563103	NC_021161.1	Ca_kabuli_chr02	30563103	GG	AA	1946761043
SNP_P4_24160_30563156	NC_021161.1	Ca_kabuli_chr02	30563156	CC	TT	1946761045
SNP_P4_24161_30563167	NC_021161.1	Ca_kabuli_chr02	30563167	CC	TT	1946761047
SNP_P4_24162_30563427	NC_021161.1	Ca_kabuli_chr02	30563427	TT	CC	1946761049
SNP_P4_24163_30563453	NC_021161.1	Ca_kabuli_chr02	30563453	GG	AA	1946761051
SNP_P4_24164_30563462	NC_021161.1	Ca_kabuli_chr02	30563462	AA	GG	1946761053
SNP_P4_24165_30563506	NC_021161.1	Ca_kabuli_chr02	30563506	AA	GG	1946761055
SNP_P4_24166_30563650	NC_021161.1	Ca_kabuli_chr02	30563650	GG	TT	1946761057
SNP_P4_24167_30564340	NC_021161.1	Ca_kabuli_chr02	30564340	CC	TT	1946761059
SNP_P4_24168_30564579	NC_021161.1	Ca_kabuli_chr02	30564579	CC	TT	1946761061
SNP_P4_24169_30564620	NC_021161.1	Ca_kabuli_chr02	30564620	TT	CC	1946761063
SNP_P4_24170_30564732	NC_021161.1	Ca_kabuli_chr02	30564732	CC	AA	1946761065
SNP_P4_24172_30566285	NC_021161.1	Ca_kabuli_chr02	30566285	CC	AA	1946761067
SNP_P4_24173_30566328	NC_021161.1	Ca_kabuli_chr02	30566328	AA	TT	1946761069
SNP_P4_24174_30566329	NC_021161.1	Ca_kabuli_chr02	30566329	GG	AA	1946761071
SNP_P4_24175_30566337	NC_021161.1	Ca_kabuli_chr02	30566337	AA	TT	1946761073
SNP_P4_24176_30566674	NC_021161.1	Ca_kabuli_chr02	30566674	TT	AA	1946761075
SNP_P4_24177_30566742	NC_021161.1	Ca_kabuli_chr02	30566742	CC	TT	1946761077
SNP_P4_24178_30566753	NC_021161.1	Ca_kabuli_chr02	30566753	CC	AA	1946761079
SNP_P4_24180_30568045	NC_021161.1	Ca_kabuli_chr02	30568045	GG	TT	1946761081
SNP_P4_24181_30568095	NC_021161.1	Ca_kabuli_chr02	30568095	GG	AA	1946761083
SNP_P4_24183_30569249	NC_021161.1	Ca_kabuli_chr02	30569249	AA	CC	1946761085
SNP_P4_24185_30569770	NC_021161.1	Ca_kabuli_chr02	30569770	CC	TT	1946761087
SNP_P4_24186_30569811	NC_021161.1	Ca_kabuli_chr02	30569811	CC	GG	1946761089
SNP_P4_24187_30569815	NC_021161.1	Ca_kabuli_chr02	30569815	GG	AA	1946761091
SNP_P4_24188_30570663	NC_021161.1	Ca_kabuli_chr02	30570663	AA	GG	1946761093
SNP_P4_24189_30572292	NC_021161.1	Ca_kabuli_chr02	30572292	CC	TT	1946761095
SNP_P4_24192_30573707	NC_021161.1	Ca_kabuli_chr02	30573707	AA	CC	1946761097
SNP_P4_24193_30573819	NC_021161.1	Ca_kabuli_chr02	30573819	GG	AA	1946761099
SNP_P4_24194_30573893	NC_021161.1	Ca_kabuli_chr02	30573893	AA	TT	1946761101
SNP_P4_24195_30574147	NC_021161.1	Ca_kabuli_chr02	30574147	AA	GG	1946761103
SNP_P4_24197_30574374	NC_021161.1	Ca_kabuli_chr02	30574374	AA	CC	1946761105
SNP_P4_24198_30574397	NC_021161.1	Ca_kabuli_chr02	30574397	AA	GG	1946761107
SNP_P4_24199_30574402	NC_021161.1	Ca_kabuli_chr02	30574402	CC	AA	1946761109
SNP_P4_24200_30574550	NC_021161.1	Ca_kabuli_chr02	30574550	CC	AA	1946761112
SNP_P4_24201_30574991	NC_021161.1	Ca_kabuli_chr02	30574991	AA	GG	1946761114
SNP_P4_24203_30575527	NC_021161.1	Ca_kabuli_chr02	30575527	TT	CC	1946761116
SNP_P4_24205_30575567	NC_021161.1	Ca_kabuli_chr02	30575567	TT	CC	1946761118
SNP_P4_24206_30575602	NC_021161.1	Ca_kabuli_chr02	30575602	TT	GG	1946761120
SNP_P4_24208_30577722	NC_021161.1	Ca_kabuli_chr02	30577722	AA	TT	1946761122
SNP_P4_24209_30577771	NC_021161.1	Ca_kabuli_chr02	30577771	CC	GG	1946761124

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_24213_30580741	NC_021161.1	Ca_kabuli_chr02	30580741	AA	GG	1946761128
SNP_P4_24214_30581355	NC_021161.1	Ca_kabuli_chr02	30581355	AA	CC	1946761130
SNP_P4_24215_30581369	NC_021161.1	Ca_kabuli_chr02	30581369	CC	TT	1946761132
SNP_P4_24216_30581695	NC_021161.1	Ca_kabuli_chr02	30581695	TT	GG	1946761134
SNP_P4_24217_30581811	NC_021161.1	Ca_kabuli_chr02	30581811	AA	GG	1946761136
SNP_P4_24218_30582007	NC_021161.1	Ca_kabuli_chr02	30582007	CC	TT	1946761138
SNP_P4_24219_30582181	NC_021161.1	Ca_kabuli_chr02	30582181	CC	AA	1946761140
SNP_P4_24220_30582183	NC_021161.1	Ca_kabuli_chr02	30582183	TT	CC	1946761142
SNP_P4_24221_30582730	NC_021161.1	Ca_kabuli_chr02	30582730	AA	GG	1946761144
SNP_P4_24222_30583939	NC_021161.1	Ca_kabuli_chr02	30583939	CC	TT	1946761146
SNP_P4_24223_30584070	NC_021161.1	Ca_kabuli_chr02	30584070	CC	TT	1946761148
SNP_P4_24224_30584281	NC_021161.1	Ca_kabuli_chr02	30584281	CC	GG	1946761150
SNP_P4_24225_30584824	NC_021161.1	Ca_kabuli_chr02	30584824	CC	TT	1946761152
SNP_P4_24227_30585574	NC_021161.1	Ca_kabuli_chr02	30585574	AA	GG	1946761154
SNP_P4_24228_30586296	NC_021161.1	Ca_kabuli_chr02	30586296	TT	AA	1946761156
SNP_P4_24229_30586300	NC_021161.1	Ca_kabuli_chr02	30586300	TT	AA	1946761159
SNP_P4_24230_30586740	NC_021161.1	Ca_kabuli_chr02	30586740	GG	TT	1946761161
SNP_P4_24231_30587396	NC_021161.1	Ca_kabuli_chr02	30587396	AA	GG	1946761163
SNP_P4_24232_30589233	NC_021161.1	Ca_kabuli_chr02	30589233	GG	CC	1946761165
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SNP_P4_24234_30589634	NC_021161.1	Ca_kabuli_chr02	30589634	TT	AA	1946761169
SNP_P4_24235_30593075	NC_021161.1	Ca_kabuli_chr02	30593075	AA	TT	1946761171
SNP_P4_24236_30593238	NC_021161.1	Ca_kabuli_chr02	30593238	CC	GG	1946761173
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SNP_P4_24239_30613135	NC_021161.1	Ca_kabuli_chr02	30613135	TT	CC	1946761179
SNP_P4_24241_30616820	NC_021161.1	Ca_kabuli_chr02	30616820	GG	AA	1946761181
SNP_P4_24242_30616852	NC_021161.1	Ca_kabuli_chr02	30616852	GG	AA	1946761183
SNP_P4_24243_30617070	NC_021161.1	Ca_kabuli_chr02	30617070	AA	GG	1946761185
SNP_P4_24244_30617983	NC_021161.1	Ca_kabuli_chr02	30617983	AA	GG	1946761188
SNP_P4_24245_30618263	NC_021161.1	Ca_kabuli_chr02	30618263	TT	CC	1946761190
SNP_P4_24247_30618928	NC_021161.1	Ca_kabuli_chr02	30618928	AA	CC	1946761192
SNP_P4_24248_30619216	NC_021161.1	Ca_kabuli_chr02	30619216	CC	TT	1946761194
SNP_P4_24249_30620532	NC_021161.1	Ca_kabuli_chr02	30620532	CC	TT	1946761196
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SNP_P4_24251_30620914	NC_021161.1	Ca_kabuli_chr02	30620914	GG	AA	1946761200
SNP_P4_24252_30620943	NC_021161.1	Ca_kabuli_chr02	30620943	CC	TT	1946761202
SNP_P4_24253_30620951	NC_021161.1	Ca_kabuli_chr02	30620951	AA	GG	1946761204
SNP_P4_24254_30621227	NC_021161.1	Ca_kabuli_chr02	30621227	GG	TT	1946761206
SNP_P4_24255_30621337	NC_021161.1	Ca_kabuli_chr02	30621337	CC	TT	1946761208
SNP_P4_24256_30621376	NC_021161.1	Ca_kabuli_chr02	30621376	AA	GG	1946761210

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_24259_30621564	NC_021161.1	Ca_kabuli_chr02	30621564	GG	CC	1946761216
SNP_P4_24260_30621644	NC_021161.1	Ca_kabuli_chr02	30621644	AA	TT	1946761218
SNP_P4_24261_30621802	NC_021161.1	Ca_kabuli_chr02	30621802	CC	TT	1946761220
SNP_P4_24262_30621818	NC_021161.1	Ca_kabuli_chr02	30621818	TT	CC	1946761222
SNP_P4_24264_30622456	NC_021161.1	Ca_kabuli_chr02	30622456	TT	CC	1946761224
SNP_P4_24265_30622466	NC_021161.1	Ca_kabuli_chr02	30622466	GG	AA	1946761227
SNP_P4_24266_30622467	NC_021161.1	Ca_kabuli_chr02	30622467	AA	GG	1946761229
SNP_P4_24269_30624391	NC_021161.1	Ca_kabuli_chr02	30624391	GG	CC	1946761231
SNP_P4_24270_30624421	NC_021161.1	Ca_kabuli_chr02	30624421	TT	GG	1946761233
SNP_P4_24272_30624489	NC_021161.1	Ca_kabuli_chr02	30624489	TT	CC	1946761235
SNP_P4_24275_30626370	NC_021161.1	Ca_kabuli_chr02	30626370	TT	CC	1946761237
SNP_P4_24276_30630358	NC_021161.1	Ca_kabuli_chr02	30630358	AA	GG	1946761239
SNP_P4_24277_30631764	NC_021161.1	Ca_kabuli_chr02	30631764	GG	CC	1946761241
SNP_P4_24278_30632063	NC_021161.1	Ca_kabuli_chr02	30632063	CC	TT	1946761243
SNP_P4_24279_30632072	NC_021161.1	Ca_kabuli_chr02	30632072	AA	CC	1946761245
SNP_P4_24280_30632708	NC_021161.1	Ca_kabuli_chr02	30632708	GG	CC	1946761247
SNP_P4_24281_30632728	NC_021161.1	Ca_kabuli_chr02	30632728	CC	TT	1946761249
SNP_P4_24282_30632912	NC_021161.1	Ca_kabuli_chr02	30632912	TT	CC	1946761251
SNP_P4_24283_30632916	NC_021161.1	Ca_kabuli_chr02	30632916	CC	TT	1946761253
SNP_P4_24284_30632978	NC_021161.1	Ca_kabuli_chr02	30632978	CC	AA	1946761255
SNP_P4_24285_30632980	NC_021161.1	Ca_kabuli_chr02	30632980	AA	CC	1946761257
SNP_P4_24286_30633172	NC_021161.1	Ca_kabuli_chr02	30633172	TT	AA	1946761259
SNP_P4_24287_30633181	NC_021161.1	Ca_kabuli_chr02	30633181	GG	AA	1946761261
SNP_P4_24288_30633247	NC_021161.1	Ca_kabuli_chr02	30633247	AA	CC	1946761263
SNP_P4_24289_30633251	NC_021161.1	Ca_kabuli_chr02	30633251	AA	GG	1946761265
SNP_P4_24290_30633257	NC_021161.1	Ca_kabuli_chr02	30633257	TT	GG	1946761267
SNP_P4_24291_30633265	NC_021161.1	Ca_kabuli_chr02	30633265	GG	TT	1946761269
SNP_P4_24292_30633277	NC_021161.1	Ca_kabuli_chr02	30633277	CC	TT	1946761271
SNP_P4_24294_30639564	NC_021161.1	Ca_kabuli_chr02	30639564	GG	AA	1946761273
SNP_P4_24295_30640305	NC_021161.1	Ca_kabuli_chr02	30640305	AA	TT	1946761275
SNP_P4_24296_30640613	NC_021161.1	Ca_kabuli_chr02	30640613	CC	TT	1946761277
SNP_P4_24297_30640627	NC_021161.1	Ca_kabuli_chr02	30640627	TT	AA	1946761279
SNP_P4_24298_30640676	NC_021161.1	Ca_kabuli_chr02	30640676	GG	AA	1946761281
SNP_P4_24300_30643098	NC_021161.1	Ca_kabuli_chr02	30643098	GG	CC	1946761283
SNP_P4_24301_30643129	NC_021161.1	Ca_kabuli_chr02	30643129	AA	GG	1946761285
SNP_P4_24302_30643134	NC_021161.1	Ca_kabuli_chr02	30643134	GG	AA	1946761287
SNP_P4_24303_30643840	NC_021161.1	Ca_kabuli_chr02	30643840	TT	CC	1946761289
SNP_P4_24304_30643841	NC_021161.1	Ca_kabuli_chr02	30643841	AA	CC	1946761291
SNP_P4_24305_30645423	NC_021161.1	Ca_kabuli_chr02	30645423	AA	TT	1946761293
SNP_P4_24306_30645424	NC_021161.1	Ca_kabuli_chr02	30645424	AA	CC	1946761295

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_24312_30647657	NC_021161.1	Ca_kabuli_chr02	30647657	TT	CC	1946761299
SNP_P4_24313_30648536	NC_021161.1	Ca_kabuli_chr02	30648536	TT	CC	1946761301
SNP_P4_24314_30648539	NC_021161.1	Ca_kabuli_chr02	30648539	TT	GG	1946761303
SNP_P4_24315_30648707	NC_021161.1	Ca_kabuli_chr02	30648707	AA	GG	1946761305
SNP_P4_24316_30649133	NC_021161.1	Ca_kabuli_chr02	30649133	GG	TT	1946761307
SNP_P4_24317_30649528	NC_021161.1	Ca_kabuli_chr02	30649528	GG	AA	1946761309
SNP_P4_24318_30649589	NC_021161.1	Ca_kabuli_chr02	30649589	TT	CC	1946761311
SNP_P4_24319_30653285	NC_021161.1	Ca_kabuli_chr02	30653285	GG	TT	1946761313
SNP_P4_24320_30657061	NC_021161.1	Ca_kabuli_chr02	30657061	AA	GG	1946761315
SNP_P4_24321_30657067	NC_021161.1	Ca_kabuli_chr02	30657067	GG	TT	1946761317
SNP_P4_24322_30657332	NC_021161.1	Ca_kabuli_chr02	30657332	GG	AA	1946761319
SNP_P4_24323_30657357	NC_021161.1	Ca_kabuli_chr02	30657357	AA	GG	1946761321
SNP_P4_24324_30658536	NC_021161.1	Ca_kabuli_chr02	30658536	TT	CC	1946761323
SNP_P4_24325_30658568	NC_021161.1	Ca_kabuli_chr02	30658568	GG	AA	1946761325
SNP_P4_24326_30658587	NC_021161.1	Ca_kabuli_chr02	30658587	TT	CC	1946761327
SNP_P4_24328_30662433	NC_021161.1	Ca_kabuli_chr02	30662433	CC	TT	1946761330
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SNP_P4_24330_30664734	NC_021161.1	Ca_kabuli_chr02	30664734	TT	CC	1946761334
SNP_P4_24332_30665139	NC_021161.1	Ca_kabuli_chr02	30665139	TT	GG	1946761336
SNP_P4_24333_30665142	NC_021161.1	Ca_kabuli_chr02	30665142	AA	GG	1946761338
SNP_P4_24334_30665169	NC_021161.1	Ca_kabuli_chr02	30665169	AA	TT	1946761340
SNP_P4_24335_30665195	NC_021161.1	Ca_kabuli_chr02	30665195	AA	GG	1946761342
SNP_P4_24336_30665394	NC_021161.1	Ca_kabuli_chr02	30665394	AA	GG	1946761344
SNP_P4_24337_30665436	NC_021161.1	Ca_kabuli_chr02	30665436	CC	GG	1946761346
SNP_P4_24341_30666011	NC_021161.1	Ca_kabuli_chr02	30666011	AA	GG	1946761348
SNP_P4_24342_30666094	NC_021161.1	Ca_kabuli_chr02	30666094	AA	TT	1946761350
SNP_P4_24344_30667368	NC_021161.1	Ca_kabuli_chr02	30667368	GG	AA	1946761352
SNP_P4_24345_30668246	NC_021161.1	Ca_kabuli_chr02	30668246	TT	CC	1946761354
SNP_P4_24346_30668496	NC_021161.1	Ca_kabuli_chr02	30668496	TT	CC	1946761356
SNP_P4_24349_30668838	NC_021161.1	Ca_kabuli_chr02	30668838	TT	CC	1946761358
SNP_P4_24351_30670035	NC_021161.1	Ca_kabuli_chr02	30670035	AA	TT	1946761360
SNP_P4_24352_30670044	NC_021161.1	Ca_kabuli_chr02	30670044	TT	CC	1946761362
SNP_P4_24354_30670159	NC_021161.1	Ca_kabuli_chr02	30670159	GG	CC	1946761364
SNP_P4_24355_30671015	NC_021161.1	Ca_kabuli_chr02	30671015	TT	GG	1946761366
SNP_P4_24356_30671024	NC_021161.1	Ca_kabuli_chr02	30671024	TT	CC	1946761368
SNP_P4_24358_30671578	NC_021161.1	Ca_kabuli_chr02	30671578	AA	GG	1946761370
SNP_P4_24359_30671582	NC_021161.1	Ca_kabuli_chr02	30671582	CC	TT	1946761372
SNP_P4_24360_30671589	NC_021161.1	Ca_kabuli_chr02	30671589	AA	GG	1946761374
SNP_P4_24361_30672814	NC_021161.1	Ca_kabuli_chr02	30672814	AA	GG	1946761376
SNP_P4_24363_30672841	NC_021161.1	Ca_kabuli_chr02	30672841	CC	GG	1946761378
SNP_P4_24364_30674513	NC_021161.1	Ca_kabuli_chr02	30674513	AA	CC	1946761380

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_24366_30676250	NC_021161.1	Ca_kabuli_chr02	30676250	CC	TT	1946761384
SNP_P4_24368_30676474	NC_021161.1	Ca_kabuli_chr02	30676474	CC	AA	1946761386
SNP_P4_24369_30676488	NC_021161.1	Ca_kabuli_chr02	30676488	CC	TT	1946761388
SNP_P4_24370_30676511	NC_021161.1	Ca_kabuli_chr02	30676511	CC	TT	1946761390
SNP_P4_24371_30676520	NC_021161.1	Ca_kabuli_chr02	30676520	TT	CC	1946761392
SNP_P4_24373_30676710	NC_021161.1	Ca_kabuli_chr02	30676710	CC	TT	1946761394
SNP_P4_24374_30676717	NC_021161.1	Ca_kabuli_chr02	30676717	AA	GG	1946761396
SNP_P4_24377_30677070	NC_021161.1	Ca_kabuli_chr02	30677070	AA	GG	1946761398
SNP_P4_24379_30677145	NC_021161.1	Ca_kabuli_chr02	30677145	TT	CC	1946761400
SNP_P4_24380_30677832	NC_021161.1	Ca_kabuli_chr02	30677832	TT	CC	1946761402
SNP_P4_24381_30678015	NC_021161.1	Ca_kabuli_chr02	30678015	CC	TT	1946761404
SNP_P4_24382_30678035	NC_021161.1	Ca_kabuli_chr02	30678035	AA	GG	1946761406
SNP_P4_24383_30678160	NC_021161.1	Ca_kabuli_chr02	30678160	CC	TT	1946761408
SNP_P4_24385_30679052	NC_021161.1	Ca_kabuli_chr02	30679052	TT	AA	1946761410
SNP_P4_24386_30679176	NC_021161.1	Ca_kabuli_chr02	30679176	GG	AA	1946761412
SNP_P4_24387_30679220	NC_021161.1	Ca_kabuli_chr02	30679220	GG	TT	1946761414
SNP_P4_24388_30679485	NC_021161.1	Ca_kabuli_chr02	30679485	AA	GG	1946761416
SNP_P4_24389_30679689	NC_021161.1	Ca_kabuli_chr02	30679689	TT	CC	1946761418
SNP_P4_24390_30679832	NC_021161.1	Ca_kabuli_chr02	30679832	AA	CC	1946761420
SNP_P4_24392_30679924	NC_021161.1	Ca_kabuli_chr02	30679924	CC	AA	1946761422
SNP_P4_24393_30680764	NC_021161.1	Ca_kabuli_chr02	30680764	CC	TT	1946761424
SNP_P4_24395_30680879	NC_021161.1	Ca_kabuli_chr02	30680879	TT	AA	1946761426
SNP_P4_24396_30680908	NC_021161.1	Ca_kabuli_chr02	30680908	AA	GG	1946761428
SNP_P4_24397_30680930	NC_021161.1	Ca_kabuli_chr02	30680930	AA	CC	1946761430
SNP_P4_24398_30680946	NC_021161.1	Ca_kabuli_chr02	30680946	GG	AA	1946761432
SNP_P4_24399_30681192	NC_021161.1	Ca_kabuli_chr02	30681192	CC	TT	1946761434
SNP_P4_24400_30681259	NC_021161.1	Ca_kabuli_chr02	30681259	TT	CC	1946761436
SNP_P4_24401_30681282	NC_021161.1	Ca_kabuli_chr02	30681282	AA	GG	1946761438
SNP_P4_24402_30681285	NC_021161.1	Ca_kabuli_chr02	30681285	CC	TT	1946761440
SNP_P4_24403_30681312	NC_021161.1	Ca_kabuli_chr02	30681312	TT	CC	1946761442
SNP_P4_24405_30683327	NC_021161.1	Ca_kabuli_chr02	30683327	AA	CC	1946761444
SNP_P4_24406_30684014	NC_021161.1	Ca_kabuli_chr02	30684014	CC	TT	1946761446
SNP_P4_24407_30684036	NC_021161.1	Ca_kabuli_chr02	30684036	TT	CC	1946761448
SNP_P4_24408_30684207	NC_021161.1	Ca_kabuli_chr02	30684207	GG	CC	1946761450
SNP_P4_24409_30685040	NC_021161.1	Ca_kabuli_chr02	30685040	CC	TT	1946761452
SNP_P4_24410_30686000	NC_021161.1	Ca_kabuli_chr02	30686000	AA	GG	1946761454
SNP_P4_24411_30687220	NC_021161.1	Ca_kabuli_chr02	30687220	GG	AA	1946761456
SNP_P4_24412_30687223	NC_021161.1	Ca_kabuli_chr02	30687223	TT	CC	1946761458
SNP_P4_24413_30687225	NC_021161.1	Ca_kabuli_chr02	30687225	AA	GG	1946761460
SNP_P4_24414_30687263	NC_021161.1	Ca_kabuli_chr02	30687263	CC	TT	1946761462
SNP_P4_24415_30687363	NC_021161.1	Ca_kabuli_chr02	30687363	AA	TT	1946761464

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_24417_30689545	NC_021161.1	Ca_kabuli_chr02	30689545	AA	TT	1946761468
SNP_P4_24418_30689564	NC_021161.1	Ca_kabuli_chr02	30689564	CC	TT	1946761470
SNP_P4_24419_30689730	NC_021161.1	Ca_kabuli_chr02	30689730	CC	TT	1946761472
SNP_P4_24423_30690315	NC_021161.1	Ca_kabuli_chr02	30690315	AA	TT	1946761474
SNP_P4_24424_30690318	NC_021161.1	Ca_kabuli_chr02	30690318	TT	CC	1946761476
SNP_P4_24427_30690501	NC_021161.1	Ca_kabuli_chr02	30690501	CC	AA	1946761478
SNP_P4_24428_30690503	NC_021161.1	Ca_kabuli_chr02	30690503	TT	CC	1946761480
SNP_P4_24430_30690609	NC_021161.1	Ca_kabuli_chr02	30690609	CC	AA	1946761482
SNP_P4_24431_30690826	NC_021161.1	Ca_kabuli_chr02	30690826	AA	TT	1946761484
SNP_P4_24432_30690829	NC_021161.1	Ca_kabuli_chr02	30690829	GG	TT	1946761486
SNP_P4_24433_30690835	NC_021161.1	Ca_kabuli_chr02	30690835	CC	AA	1946761488
SNP_P4_24434_30690852	NC_021161.1	Ca_kabuli_chr02	30690852	GG	TT	1946761490
SNP_P4_24436_30696001	NC_021161.1	Ca_kabuli_chr02	30696001	TT	CC	1946761492
SNP_P4_24437_30696023	NC_021161.1	Ca_kabuli_chr02	30696023	TT	CC	1946761494
SNP_P4_24438_30696081	NC_021161.1	Ca_kabuli_chr02	30696081	TT	CC	1946761496
SNP_P4_24439_30696144	NC_021161.1	Ca_kabuli_chr02	30696144	CC	TT	1946761498
SNP_P4_24440_30697341	NC_021161.1	Ca_kabuli_chr02	30697341	AA	CC	1946761500
SNP_P4_24441_30697841	NC_021161.1	Ca_kabuli_chr02	30697841	TT	GG	1946761502
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SNP_P4_24445_30701699	NC_021161.1	Ca_kabuli_chr02	30701699	GG	AA	1946761508
SNP_P4_24448_30703327	NC_021161.1	Ca_kabuli_chr02	30703327	AA	GG	1946761510
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SNP_P4_24454_30704685	NC_021161.1	Ca_kabuli_chr02	30704685	CC	GG	1946761519
SNP_P4_24455_30705229	NC_021161.1	Ca_kabuli_chr02	30705229	TT	CC	1946761521
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SNP_P4_24460_30707815	NC_021161.1	Ca_kabuli_chr02	30707815	AA	GG	1946761529
SNP_P4_24461_30709047	NC_021161.1	Ca_kabuli_chr02	30709047	CC	TT	1946761531
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SNP_P4_24463_30711496	NC_021161.1	Ca_kabuli_chr02	30711496	AA	CC	1946761535
SNP_P4_24464_30712733	NC_021161.1	Ca_kabuli_chr02	30712733	CC	GG	1946761537
SNP_P4_24466_30714128	NC_021161.1	Ca_kabuli_chr02	30714128	TT	AA	1946761539
SNP_P4_24467_30716237	NC_021161.1	Ca_kabuli_chr02	30716237	TT	CC	1946761541
SNP_P4_24468_30716266	NC_021161.1	Ca_kabuli_chr02	30716266	TT	CC	1946761543
SNP_P4_24469_30716690	NC_021161.1	Ca_kabuli_chr02	30716690	AA	GG	1946761545
SNP_P4_24470_30718163	NC_021161.1	Ca_kabuli_chr02	30718163	AA	GG	1946761547
SNP_P4_24471_30718492	NC_021161.1	Ca_kabuli_chr02	30718492	TT	CC	1946761549

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_24474_30718521	NC_021161.1	Ca_kabuli_chr02	30718521	TT	AA	1946761555
SNP_P4_24475_30718547	NC_021161.1	Ca_kabuli_chr02	30718547	GG	AA	1946761557
SNP_P4_24476_30718549	NC_021161.1	Ca_kabuli_chr02	30718549	CC	TT	1946761559
SNP_P4_24477_30718800	NC_021161.1	Ca_kabuli_chr02	30718800	GG	AA	1946761561
SNP_P4_24478_30718806	NC_021161.1	Ca_kabuli_chr02	30718806	AA	GG	1946761563
SNP_P4_24479_30719158	NC_021161.1	Ca_kabuli_chr02	30719158	AA	GG	1946761565
SNP_P4_24480_30719590	NC_021161.1	Ca_kabuli_chr02	30719590	AA	GG	1946761567
SNP_P4_24481_30719909	NC_021161.1	Ca_kabuli_chr02	30719909	CC	TT	1946761569
SNP_P4_24482_30720337	NC_021161.1	Ca_kabuli_chr02	30720337	TT	AA	1946761571
SNP_P4_24483_30720711	NC_021161.1	Ca_kabuli_chr02	30720711	AA	GG	1946761573
SNP_P4_24484_30730118	NC_021161.1	Ca_kabuli_chr02	30730118	CC	TT	1946761575
SNP_P4_24485_30730176	NC_021161.1	Ca_kabuli_chr02	30730176	TT	CC	1946761577
SNP_P4_24486_30730958	NC_021161.1	Ca_kabuli_chr02	30730958	AA	GG	1946761580
SNP_P4_24487_30731092	NC_021161.1	Ca_kabuli_chr02	30731092	CC	TT	1946761582
SNP_P4_24488_30731989	NC_021161.1	Ca_kabuli_chr02	30731989	TT	AA	1946761584
SNP_P4_24490_30732009	NC_021161.1	Ca_kabuli_chr02	30732009	GG	TT	1946761586
SNP_P4_24491_30732049	NC_021161.1	Ca_kabuli_chr02	30732049	GG	AA	1946761588
SNP_P4_24492_30732060	NC_021161.1	Ca_kabuli_chr02	30732060	GG	AA	1946761590
SNP_P4_24493_30732467	NC_021161.1	Ca_kabuli_chr02	30732467	CC	AA	1946761592
SNP_P4_24496_30732997	NC_021161.1	Ca_kabuli_chr02	30732997	CC	TT	1946761594
SNP_P4_24497_30733052	NC_021161.1	Ca_kabuli_chr02	30733052	CC	TT	1946761596
SNP_P4_24498_30733088	NC_021161.1	Ca_kabuli_chr02	30733088	GG	TT	1946761598
SNP_P4_24499_30733093	NC_021161.1	Ca_kabuli_chr02	30733093	TT	CC	1946761600
SNP_P4_24500_30733290	NC_021161.1	Ca_kabuli_chr02	30733290	GG	CC	1946761602
SNP_P4_24501_30733357	NC_021161.1	Ca_kabuli_chr02	30733357	GG	AA	1946761604
SNP_P4_24503_30736161	NC_021161.1	Ca_kabuli_chr02	30736161	CC	TT	1946761606
SNP_P4_24504_30736180	NC_021161.1	Ca_kabuli_chr02	30736180	CC	AA	1946761608
SNP_P4_24506_30738247	NC_021161.1	Ca_kabuli_chr02	30738247	AA	GG	1946761610
SNP_P4_24507_30738524	NC_021161.1	Ca_kabuli_chr02	30738524	TT	AA	1946761612
SNP_P4_24508_30738534	NC_021161.1	Ca_kabuli_chr02	30738534	CC	TT	1946761614
SNP_P4_24510_30739081	NC_021161.1	Ca_kabuli_chr02	30739081	TT	CC	1946761616
SNP_P4_24511_30739303	NC_021161.1	Ca_kabuli_chr02	30739303	GG	AA	1946761618
SNP_P4_24512_30739547	NC_021161.1	Ca_kabuli_chr02	30739547	GG	AA	1946761620
SNP_P4_24513_30740448	NC_021161.1	Ca_kabuli_chr02	30740448	AA	GG	1946761622
SNP_P4_24514_30740472	NC_021161.1	Ca_kabuli_chr02	30740472	CC	TT	1946761624
SNP_P4_24515_30742247	NC_021161.1	Ca_kabuli_chr02	30742247	AA	GG	1946761627
SNP_P4_24518_30742862	NC_021161.1	Ca_kabuli_chr02	30742862	AA	GG	1946761629
SNP_P4_24519_30743388	NC_021161.1	Ca_kabuli_chr02	30743388	AA	GG	1946761631
SNP_P4_24521_30746204	NC_021161.1	Ca_kabuli_chr02	30746204	GG	AA	1946761633
SNP_P4_24522_30756015	NC_021161.1	Ca_kabuli_chr02	30756015	GG	TT	1946761635

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_24524_30766136	NC_021161.1	Ca_kabuli_chr02	30766136	AA	CC	1946761637
SNP_P4_24526_30768987	NC_021161.1	Ca_kabuli_chr02	30768987	GG	CC	1946761639
SNP_P4_24528_30769066	NC_021161.1	Ca_kabuli_chr02	30769066	AA	GG	1946761641
SNP_P4_24530_30772363	NC_021161.1	Ca_kabuli_chr02	30772363	GG	TT	1946761643
SNP_P4_24531_30772368	NC_021161.1	Ca_kabuli_chr02	30772368	TT	AA	1946761645
SNP_P4_24532_30772434	NC_021161.1	Ca_kabuli_chr02	30772434	GG	AA	1946761647
SNP_P4_24533_30772445	NC_021161.1	Ca_kabuli_chr02	30772445	CC	TT	1946761649
SNP_P4_24534_30775784	NC_021161.1	Ca_kabuli_chr02	30775784	GG	TT	1946761651
SNP_P4_24535_30775887	NC_021161.1	Ca_kabuli_chr02	30775887	TT	GG	1946761653
SNP_P4_24536_30776091	NC_021161.1	Ca_kabuli_chr02	30776091	AA	GG	1946761655
SNP_P4_24537_30776114	NC_021161.1	Ca_kabuli_chr02	30776114	TT	AA	1946761657
SNP_P4_24538_30776637	NC_021161.1	Ca_kabuli_chr02	30776637	CC	GG	1946761659
SNP_P4_24539_30777280	NC_021161.1	Ca_kabuli_chr02	30777280	AA	TT	1946761661
SNP_P4_24540_30778386	NC_021161.1	Ca_kabuli_chr02	30778386	AA	GG	1946761663
SNP_P4_24541_30778781	NC_021161.1	Ca_kabuli_chr02	30778781	AA	TT	1946761665
SNP_P4_24542_30778805	NC_021161.1	Ca_kabuli_chr02	30778805	CC	TT	1946761667
SNP_P4_24543_30778806	NC_021161.1	Ca_kabuli_chr02	30778806	CC	TT	1946761669
SNP_P4_24544_30778843	NC_021161.1	Ca_kabuli_chr02	30778843	TT	AA	1946761671
SNP_P4_24545_30783793	NC_021161.1	Ca_kabuli_chr02	30783793	AA	TT	1946761673
SNP_P4_24546_30783799	NC_021161.1	Ca_kabuli_chr02	30783799	AA	TT	1946761675
SNP_P4_24548_30785598	NC_021161.1	Ca_kabuli_chr02	30785598	TT	AA	1946761677
SNP_P4_24549_30785615	NC_021161.1	Ca_kabuli_chr02	30785615	AA	GG	1946761679
SNP_P4_24551_30785631	NC_021161.1	Ca_kabuli_chr02	30785631	AA	GG	1946761681
SNP_P4_24552_30785811	NC_021161.1	Ca_kabuli_chr02	30785811	CC	TT	1946761683
SNP_P4_24553_30788384	NC_021161.1	Ca_kabuli_chr02	30788384	AA	GG	1946761685
SNP_P4_24554_30788431	NC_021161.1	Ca_kabuli_chr02	30788431	GG	AA	1946761687
SNP_P4_24555_30788842	NC_021161.1	Ca_kabuli_chr02	30788842	CC	AA	1946761689
SNP_P4_24556_30789416	NC_021161.1	Ca_kabuli_chr02	30789416	AA	GG	1946761691
SNP_P4_24557_30789716	NC_021161.1	Ca_kabuli_chr02	30789716	AA	GG	1946761693
SNP_P4_24558_30789749	NC_021161.1	Ca_kabuli_chr02	30789749	TT	AA	1946761695
SNP_P4_24559_30790370	NC_021161.1	Ca_kabuli_chr02	30790370	TT	CC	1946761697
SNP_P4_24560_30791001	NC_021161.1	Ca_kabuli_chr02	30791001	AA	GG	1946761699
SNP_P4_24561_30791106	NC_021161.1	Ca_kabuli_chr02	30791106	AA	CC	1946761701
SNP_P4_24562_30791345	NC_021161.1	Ca_kabuli_chr02	30791345	TT	CC	1946761703
SNP_P4_24563_30791939	NC_021161.1	Ca_kabuli_chr02	30791939	CC	AA	1946761705
SNP_P4_24564_30793357	NC_021161.1	Ca_kabuli_chr02	30793357	GG	AA	1946761707
SNP_P4_24565_30793578	NC_021161.1	Ca_kabuli_chr02	30793578	CC	AA	1946761709
SNP_P4_24566_30793781	NC_021161.1	Ca_kabuli_chr02	30793781	GG	TT	1946761711
SNP_P4_24567_30793914	NC_021161.1	Ca_kabuli_chr02	30793914	AA	CC	1946761713
SNP_P4_24568_30793932	NC_021161.1	Ca_kabuli_chr02	30793932	AA	GG	1946761715
SNP_P4_24569_30793933	NC_021161.1	Ca_kabuli_chr02	30793933	TT	CC	1946761717
SNP_P4_24570_30793935	NC_021161.1	Ca_kabuli_chr02	30793935	CC	AA	1946761719

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_24572_30793967	NC_021161.1	Ca_kabuli_chr02	30793967	AA	GG	1946761723
SNP_P4_24573_30793976	NC_021161.1	Ca_kabuli_chr02	30793976	CC	GG	1946761725
SNP_P4_24576_30794782	NC_021161.1	Ca_kabuli_chr02	30794782	TT	CC	1946761727
SNP_P4_24577_30794813	NC_021161.1	Ca_kabuli_chr02	30794813	AA	TT	1946761729
SNP_P4_24578_30794926	NC_021161.1	Ca_kabuli_chr02	30794926	CC	TT	1946761731
SNP_P4_24579_30794940	NC_021161.1	Ca_kabuli_chr02	30794940	CC	GG	1946761733
SNP_P4_24581_30795163	NC_021161.1	Ca_kabuli_chr02	30795163	CC	TT	1946761735
SNP_P4_24582_30795217	NC_021161.1	Ca_kabuli_chr02	30795217	AA	GG	1946761737
SNP_P4_24583_30795240	NC_021161.1	Ca_kabuli_chr02	30795240	CC	TT	1946761739
SNP_P4_24584_30795247	NC_021161.1	Ca_kabuli_chr02	30795247	TT	CC	1946761741
SNP_P4_24585_30795351	NC_021161.1	Ca_kabuli_chr02	30795351	CC	GG	1946761743
SNP_P4_24586_30795357	NC_021161.1	Ca_kabuli_chr02	30795357	GG	CC	1946761745
SNP_P4_24589_30795774	NC_021161.1	Ca_kabuli_chr02	30795774	AA	TT	1946761747
SNP_P4_24590_30795838	NC_021161.1	Ca_kabuli_chr02	30795838	AA	GG	1946761749
SNP_P4_24591_30795867	NC_021161.1	Ca_kabuli_chr02	30795867	TT	CC	1946761751
SNP_P4_24592_30798157	NC_021161.1	Ca_kabuli_chr02	30798157	TT	AA	1946761753
SNP_P4_24593_30798314	NC_021161.1	Ca_kabuli_chr02	30798314	GG	TT	1946761755
SNP_P4_24594_30798315	NC_021161.1	Ca_kabuli_chr02	30798315	GG	AA	1946761757
SNP_P4_24595_30798510	NC_021161.1	Ca_kabuli_chr02	30798510	GG	CC	1946761760
SNP_P4_24596_30798540	NC_021161.1	Ca_kabuli_chr02	30798540	TT	CC	1946761762
SNP_P4_24597_30798569	NC_021161.1	Ca_kabuli_chr02	30798569	AA	TT	1946761764
SNP_P4_24598_30798574	NC_021161.1	Ca_kabuli_chr02	30798574	CC	TT	1946761770
SNP_P4_24599_30798610	NC_021161.1	Ca_kabuli_chr02	30798610	GG	AA	1946761771
SNP_P4_24600_30798627	NC_021161.1	Ca_kabuli_chr02	30798627	AA	GG	1946761772
SNP_P4_24601_30798637	NC_021161.1	Ca_kabuli_chr02	30798637	AA	TT	1946761773
SNP_P4_24602_30798689	NC_021161.1	Ca_kabuli_chr02	30798689	CC	TT	1946761774
SNP_P4_24603_30798692	NC_021161.1	Ca_kabuli_chr02	30798692	GG	AA	1946761775
SNP_P4_24604_30798694	NC_021161.1	Ca_kabuli_chr02	30798694	AA	GG	1946761776
SNP_P4_24605_30798890	NC_021161.1	Ca_kabuli_chr02	30798890	CC	TT	1946761777
SNP_P4_24606_30799006	NC_021161.1	Ca_kabuli_chr02	30799006	AA	GG	1946761778
SNP_P4_24607_30799054	NC_021161.1	Ca_kabuli_chr02	30799054	CC	TT	1946761779
SNP_P4_24608_30799274	NC_021161.1	Ca_kabuli_chr02	30799274	CC	GG	1946761780
SNP_P4_24609_30799293	NC_021161.1	Ca_kabuli_chr02	30799293	GG	TT	1946761781
SNP_P4_24610_30804880	NC_021161.1	Ca_kabuli_chr02	30804880	AA	CC	1946761782
SNP_P4_24612_30805042	NC_021161.1	Ca_kabuli_chr02	30805042	AA	TT	1946761783
SNP_P4_24613_30805064	NC_021161.1	Ca_kabuli_chr02	30805064	CC	TT	1946761785
SNP_P4_24614_30805096	NC_021161.1	Ca_kabuli_chr02	30805096	GG	AA	1946761787
SNP_P4_24616_30805869	NC_021161.1	Ca_kabuli_chr02	30805869	CC	TT	1946761789
SNP_P4_24617_30805980	NC_021161.1	Ca_kabuli_chr02	30805980	GG	TT	1946761791
SNP_P4_24619_30806855	NC_021161.1	Ca_kabuli_chr02	30806855	TT	AA	1946761793
SNP_P4_24620_30807241	NC_021161.1	Ca_kabuli_chr02	30807241	TT	AA	1946761795

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_24622_30818654	NC_021161.1	Ca_kabuli_chr02	30818654	CC	GG	1946761799
SNP_P4_24623_30818661	NC_021161.1	Ca_kabuli_chr02	30818661	GG	CC	1946761801
SNP_P4_24624_30819850	NC_021161.1	Ca_kabuli_chr02	30819850	AA	GG	1946761803
SNP_P4_24625_30819944	NC_021161.1	Ca_kabuli_chr02	30819944	TT	CC	1946761805
SNP_P4_24626_30819981	NC_021161.1	Ca_kabuli_chr02	30819981	AA	GG	1946761807
SNP_P4_24627_30819999	NC_021161.1	Ca_kabuli_chr02	30819999	CC	TT	1946761809
SNP_P4_24628_30820057	NC_021161.1	Ca_kabuli_chr02	30820057	TT	GG	1946761811
SNP_P4_24629_30820101	NC_021161.1	Ca_kabuli_chr02	30820101	GG	AA	1946761813
SNP_P4_24630_30820156	NC_021161.1	Ca_kabuli_chr02	30820156	CC	TT	1946761815
SNP_P4_24631_30820237	NC_021161.1	Ca_kabuli_chr02	30820237	GG	TT	1946761817
SNP_P4_24632_30820324	NC_021161.1	Ca_kabuli_chr02	30820324	AA	GG	1946761819
SNP_P4_24633_30820342	NC_021161.1	Ca_kabuli_chr02	30820342	AA	TT	1946761821
SNP_P4_24634_30820884	NC_021161.1	Ca_kabuli_chr02	30820884	AA	GG	1946761823
SNP_P4_24635_30820891	NC_021161.1	Ca_kabuli_chr02	30820891	TT	CC	1946761825
SNP_P4_24636_30820898	NC_021161.1	Ca_kabuli_chr02	30820898	CC	TT	1946761827
SNP_P4_24637_30822311	NC_021161.1	Ca_kabuli_chr02	30822311	TT	AA	1946761829
SNP_P4_24638_30822374	NC_021161.1	Ca_kabuli_chr02	30822374	CC	TT	1946761831
SNP_P4_24639_30822384	NC_021161.1	Ca_kabuli_chr02	30822384	CC	GG	1946761833
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SNP_P4_24641_30822448	NC_021161.1	Ca_kabuli_chr02	30822448	AA	GG	1946761837
SNP_P4_24642_30822456	NC_021161.1	Ca_kabuli_chr02	30822456	GG	AA	1946761839
SNP_P4_24643_30822644	NC_021161.1	Ca_kabuli_chr02	30822644	TT	CC	1946761841
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SNP_P4_24646_30822774	NC_021161.1	Ca_kabuli_chr02	30822774	CC	AA	1946761846
SNP_P4_24647_30831214	NC_021161.1	Ca_kabuli_chr02	30831214	CC	TT	1946761848
SNP_P4_24648_30831522	NC_021161.1	Ca_kabuli_chr02	30831522	AA	GG	1946761850
SNP_P4_24649_30831569	NC_021161.1	Ca_kabuli_chr02	30831569	GG	AA	1946761852
SNP_P4_24650_30831594	NC_021161.1	Ca_kabuli_chr02	30831594	AA	CC	1946761854
SNP_P4_24651_30831625	NC_021161.1	Ca_kabuli_chr02	30831625	CC	AA	1946761856
SNP_P4_24652_30831628	NC_021161.1	Ca_kabuli_chr02	30831628	GG	AA	1946761858
SNP_P4_24653_30831663	NC_021161.1	Ca_kabuli_chr02	30831663	TT	CC	1946761860
SNP_P4_24654_30831665	NC_021161.1	Ca_kabuli_chr02	30831665	TT	GG	1946761862
SNP_P4_24655_30831843	NC_021161.1	Ca_kabuli_chr02	30831843	CC	TT	1946761864
SNP_P4_24656_30834695	NC_021161.1	Ca_kabuli_chr02	30834695	GG	AA	1946761866
SNP_P4_24657_30834854	NC_021161.1	Ca_kabuli_chr02	30834854	AA	GG	1946761868
SNP_P4_24658_30834880	NC_021161.1	Ca_kabuli_chr02	30834880	TT	CC	1946761870
SNP_P4_24659_30834889	NC_021161.1	Ca_kabuli_chr02	30834889	AA	TT	1946761872
SNP_P4_24660_30834945	NC_021161.1	Ca_kabuli_chr02	30834945	CC	TT	1946761874
SNP_P4_24661_30834997	NC_021161.1	Ca_kabuli_chr02	30834997	AA	GG	1946761876
SNP_P4_24662_30836568	NC_021161.1	Ca_kabuli_chr02	30836568	CC	AA	1946761878

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_24664_30836760	NC_021161.1	Ca_kabuli_chr02	30836760	GG	AA	1946761882
SNP_P4_24665_30836851	NC_021161.1	Ca_kabuli_chr02	30836851	AA	GG	1946761884
SNP_P4_24666_30836899	NC_021161.1	Ca_kabuli_chr02	30836899	CC	TT	1946761886
SNP_P4_24667_30836912	NC_021161.1	Ca_kabuli_chr02	30836912	AA	GG	1946761888
SNP_P4_24668_30836955	NC_021161.1	Ca_kabuli_chr02	30836955	CC	TT	1946761890
SNP_P4_24669_30837083	NC_021161.1	Ca_kabuli_chr02	30837083	TT	AA	1946761892
SNP_P4_24670_30837108	NC_021161.1	Ca_kabuli_chr02	30837108	CC	TT	1946761894
SNP_P4_24671_30837110	NC_021161.1	Ca_kabuli_chr02	30837110	GG	AA	1946761897
SNP_P4_24672_30839711	NC_021161.1	Ca_kabuli_chr02	30839711	CC	TT	1946761899
SNP_P4_24673_30839720	NC_021161.1	Ca_kabuli_chr02	30839720	CC	GG	1946761901
SNP_P4_24674_30839733	NC_021161.1	Ca_kabuli_chr02	30839733	TT	CC	1946761903
SNP_P4_24675_30839798	NC_021161.1	Ca_kabuli_chr02	30839798	TT	CC	1946761905
SNP_P4_24676_30840027	NC_021161.1	Ca_kabuli_chr02	30840027	GG	AA	1946761907
SNP_P4_24681_30843276	NC_021161.1	Ca_kabuli_chr02	30843276	TT	GG	1946761909
SNP_P4_24683_30843814	NC_021161.1	Ca_kabuli_chr02	30843814	AA	CC	1946761911
SNP_P4_24684_30843823	NC_021161.1	Ca_kabuli_chr02	30843823	AA	CC	1946761913
SNP_P4_24685_30844086	NC_021161.1	Ca_kabuli_chr02	30844086	GG	AA	1946761915
SNP_P4_24687_30844328	NC_021161.1	Ca_kabuli_chr02	30844328	GG	TT	1946761917
SNP_P4_24688_30844344	NC_021161.1	Ca_kabuli_chr02	30844344	TT	CC	1946761919
SNP_P4_24689_30844398	NC_021161.1	Ca_kabuli_chr02	30844398	TT	AA	1946761921
SNP_P4_24690_30844440	NC_021161.1	Ca_kabuli_chr02	30844440	AA	TT	1946761923
SNP_P4_24692_30844677	NC_021161.1	Ca_kabuli_chr02	30844677	GG	CC	1946761925
SNP_P4_24693_30844701	NC_021161.1	Ca_kabuli_chr02	30844701	CC	TT	1946761927
SNP_P4_24694_30844761	NC_021161.1	Ca_kabuli_chr02	30844761	AA	TT	1946761929
SNP_P4_24695_30844982	NC_021161.1	Ca_kabuli_chr02	30844982	CC	GG	1946761931
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SNP_P4_24698_30846237	NC_021161.1	Ca_kabuli_chr02	30846237	GG	AA	1946761937
SNP_P4_24700_30846246	NC_021161.1	Ca_kabuli_chr02	30846246	CC	TT	1946761939
SNP_P4_24701_30846280	NC_021161.1	Ca_kabuli_chr02	30846280	AA	GG	1946761941
SNP_P4_24703_30846649	NC_021161.1	Ca_kabuli_chr02	30846649	AA	CC	1946761943
SNP_P4_24706_30848630	NC_021161.1	Ca_kabuli_chr02	30848630	GG	AA	1946761945
SNP_P4_24707_30848683	NC_021161.1	Ca_kabuli_chr02	30848683	GG	AA	1946761947
SNP_P4_24708_30849702	NC_021161.1	Ca_kabuli_chr02	30849702	GG	AA	1946761949
SNP_P4_24710_30859229	NC_021161.1	Ca_kabuli_chr02	30859229	GG	CC	1946761951
SNP_P4_24711_30859254	NC_021161.1	Ca_kabuli_chr02	30859254	GG	AA	1946761953
SNP_P4_24712_30859978	NC_021161.1	Ca_kabuli_chr02	30859978	AA	GG	1946761955
SNP_P4_24713_30859985	NC_021161.1	Ca_kabuli_chr02	30859985	AA	TT	1946761957
SNP_P4_24715_30860214	NC_021161.1	Ca_kabuli_chr02	30860214	TT	CC	1946761959
SNP_P4_24716_30860228	NC_021161.1	Ca_kabuli_chr02	30860228	GG	AA	1946761961
SNP_P4_24718_30860299	NC_021161.1	Ca_kabuli_chr02	30860299	GG	AA	1946761963

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_24721_30860598	NC_021161.1	Ca_kabuli_chr02	30860598	AA	TT	1946761967
SNP_P4_24725_30860739	NC_021161.1	Ca_kabuli_chr02	30860739	TT	GG	1946761969
SNP_P4_24727_30860930	NC_021161.1	Ca_kabuli_chr02	30860930	GG	CC	1946761971
SNP_P4_24730_30861538	NC_021161.1	Ca_kabuli_chr02	30861538	GG	TT	1946761973
SNP_P4_24731_30864364	NC_021161.1	Ca_kabuli_chr02	30864364	CC	TT	1946761974
SNP_P4_24733_30865235	NC_021161.1	Ca_kabuli_chr02	30865235	AA	GG	1946761976
SNP_P4_24735_30868923	NC_021161.1	Ca_kabuli_chr02	30868923	AA	TT	1946761978
SNP_P4_24737_30869273	NC_021161.1	Ca_kabuli_chr02	30869273	CC	TT	1946761980
SNP_P4_24738_30869942	NC_021161.1	Ca_kabuli_chr02	30869942	AA	GG	1946761982
SNP_P4_24739_30870068	NC_021161.1	Ca_kabuli_chr02	30870068	AA	CC	1946761984
SNP_P4_24740_30870069	NC_021161.1	Ca_kabuli_chr02	30870069	TT	CC	1946761986
SNP_P4_24741_30870455	NC_021161.1	Ca_kabuli_chr02	30870455	TT	GG	1946761988
SNP_P4_24742_30870944	NC_021161.1	Ca_kabuli_chr02	30870944	CC	TT	1946761990
SNP_P4_24743_30870963	NC_021161.1	Ca_kabuli_chr02	30870963	GG	AA	1946761992
SNP_P4_24744_30871313	NC_021161.1	Ca_kabuli_chr02	30871313	AA	CC	1946761994
SNP_P4_24746_30872800	NC_021161.1	Ca_kabuli_chr02	30872800	AA	GG	1946761996
SNP_P4_24748_30873347	NC_021161.1	Ca_kabuli_chr02	30873347	AA	TT	1946761998
SNP_P4_24749_30873583	NC_021161.1	Ca_kabuli_chr02	30873583	AA	GG	1946762000
SNP_P4_24750_30874043	NC_021161.1	Ca_kabuli_chr02	30874043	TT	AA	1946762002
SNP_P4_24751_30874713	NC_021161.1	Ca_kabuli_chr02	30874713	CC	TT	1946762004
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SNP_P4_24754_30875730	NC_021161.1	Ca_kabuli_chr02	30875730	TT	CC	1946762010
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SNP_P4_24756_30876038	NC_021161.1	Ca_kabuli_chr02	30876038	TT	CC	1946762013
SNP_P4_24757_30876112	NC_021161.1	Ca_kabuli_chr02	30876112	AA	GG	1946762015
SNP_P4_24758_30877345	NC_021161.1	Ca_kabuli_chr02	30877345	CC	TT	1946762017
SNP_P4_24759_30877355	NC_021161.1	Ca_kabuli_chr02	30877355	TT	AA	1946762018
SNP_P4_24760_30877886	NC_021161.1	Ca_kabuli_chr02	30877886	GG	AA	1946762019
SNP_P4_24761_30878086	NC_021161.1	Ca_kabuli_chr02	30878086	GG	AA	1946762020
SNP_P4_24762_30878398	NC_021161.1	Ca_kabuli_chr02	30878398	TT	CC	1946762021
SNP_P4_24763_30878450	NC_021161.1	Ca_kabuli_chr02	30878450	CC	AA	1946762022
SNP_P4_24764_30878702	NC_021161.1	Ca_kabuli_chr02	30878702	CC	TT	1946762024
SNP_P4_24765_30878743	NC_021161.1	Ca_kabuli_chr02	30878743	AA	CC	1946762026
SNP_P4_24766_30879066	NC_021161.1	Ca_kabuli_chr02	30879066	GG	AA	1946762028
SNP_P4_24767_30879074	NC_021161.1	Ca_kabuli_chr02	30879074	TT	CC	1946762030
SNP_P4_24768_30879147	NC_021161.1	Ca_kabuli_chr02	30879147	TT	CC	1946762032
SNP_P4_24769_30879235	NC_021161.1	Ca_kabuli_chr02	30879235	CC	TT	1946762034
SNP_P4_24770_30879357	NC_021161.1	Ca_kabuli_chr02	30879357	TT	CC	1946762036
SNP_P4_24771_30879513	NC_021161.1	Ca_kabuli_chr02	30879513	CC	TT	1946762038
SNP_P4_24772_30880986	NC_021161.1	Ca_kabuli_chr02	30880986	TT	CC	1946762040

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_24774_30882037	NC_021161.1	Ca_kabuli_chr02	30882037	TT	GG	1946762044
SNP_P4_24775_30882256	NC_021161.1	Ca_kabuli_chr02	30882256	AA	GG	1946762046
SNP_P4_24776_30882422	NC_021161.1	Ca_kabuli_chr02	30882422	AA	GG	1946762048
SNP_P4_24777_30882713	NC_021161.1	Ca_kabuli_chr02	30882713	AA	GG	1946762050
SNP_P4_24778_30883017	NC_021161.1	Ca_kabuli_chr02	30883017	AA	GG	1946762051
SNP_P4_24779_30883023	NC_021161.1	Ca_kabuli_chr02	30883023	TT	GG	1946762053
SNP_P4_24780_30883241	NC_021161.1	Ca_kabuli_chr02	30883241	AA	GG	1946762055
SNP_P4_24781_30887172	NC_021161.1	Ca_kabuli_chr02	30887172	TT	CC	1946762057
SNP_P4_24782_30887207	NC_021161.1	Ca_kabuli_chr02	30887207	CC	AA	1946762059
SNP_P4_24783_30887452	NC_021161.1	Ca_kabuli_chr02	30887452	TT	CC	1946762061
SNP_P4_24784_30887575	NC_021161.1	Ca_kabuli_chr02	30887575	CC	TT	1946762063
SNP_P4_24787_30887819	NC_021161.1	Ca_kabuli_chr02	30887819	CC	GG	1946762065
SNP_P4_24788_30887911	NC_021161.1	Ca_kabuli_chr02	30887911	CC	TT	1946762067
SNP_P4_24789_30887938	NC_021161.1	Ca_kabuli_chr02	30887938	AA	TT	1946762069
SNP_P4_24790_30887942	NC_021161.1	Ca_kabuli_chr02	30887942	TT	AA	1946762071
SNP_P4_24791_30887944	NC_021161.1	Ca_kabuli_chr02	30887944	AA	CC	1946762073
SNP_P4_24792_30889371	NC_021161.1	Ca_kabuli_chr02	30889371	GG	AA	1946762075
SNP_P4_24793_30889376	NC_021161.1	Ca_kabuli_chr02	30889376	CC	TT	1946762077
SNP_P4_24794_30889603	NC_021161.1	Ca_kabuli_chr02	30889603	AA	GG	1946762079
SNP_P4_24795_30889608	NC_021161.1	Ca_kabuli_chr02	30889608	GG	AA	1946762081
SNP_P4_24796_30889642	NC_021161.1	Ca_kabuli_chr02	30889642	GG	AA	1946762083
SNP_P4_24797_30890017	NC_021161.1	Ca_kabuli_chr02	30890017	GG	CC	1946762085
SNP_P4_24798_30890021	NC_021161.1	Ca_kabuli_chr02	30890021	AA	TT	1946762087
SNP_P4_24799_30890035	NC_021161.1	Ca_kabuli_chr02	30890035	TT	CC	1946762089
SNP_P4_24800_30890061	NC_021161.1	Ca_kabuli_chr02	30890061	AA	CC	1946762091
SNP_P4_24801_30890113	NC_021161.1	Ca_kabuli_chr02	30890113	AA	TT	1946762093
SNP_P4_24803_30890174	NC_021161.1	Ca_kabuli_chr02	30890174	CC	TT	1946762095
SNP_P4_24806_30890429	NC_021161.1	Ca_kabuli_chr02	30890429	AA	CC	1946762097
SNP_P4_24807_30890510	NC_021161.1	Ca_kabuli_chr02	30890510	CC	AA	1946762099
SNP_P4_24808_30890587	NC_021161.1	Ca_kabuli_chr02	30890587	GG	AA	1946762101
SNP_P4_24810_30892563	NC_021161.1	Ca_kabuli_chr02	30892563	TT	AA	1946762103
SNP_P4_24811_30892776	NC_021161.1	Ca_kabuli_chr02	30892776	CC	TT	1946762105
SNP_P4_24812_30892808	NC_021161.1	Ca_kabuli_chr02	30892808	CC	TT	1946762107
SNP_P4_24816_30894169	NC_021161.1	Ca_kabuli_chr02	30894169	AA	GG	1946762109
SNP_P4_24817_30894171	NC_021161.1	Ca_kabuli_chr02	30894171	GG	CC	1946762111
SNP_P4_24818_30894575	NC_021161.1	Ca_kabuli_chr02	30894575	TT	CC	1946762113
SNP_P4_24819_30894629	NC_021161.1	Ca_kabuli_chr02	30894629	GG	TT	1946762115
SNP_P4_24820_30895466	NC_021161.1	Ca_kabuli_chr02	30895466	CC	TT	1946762117
SNP_P4_24823_30897877	NC_021161.1	Ca_kabuli_chr02	30897877	CC	TT	1946762119
SNP_P4_24824_30897908	NC_021161.1	Ca_kabuli_chr02	30897908	TT	AA	1946762121
SNP_P4_24825_30898069	NC_021161.1	Ca_kabuli_chr02	30898069	CC	TT	1946762122

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_24829_30899569	NC_021161.1	Ca_kabuli_chr02	30899569	TT	GG	1946762127
SNP_P4_24830_30899789	NC_021161.1	Ca_kabuli_chr02	30899789	AA	GG	1946762129
SNP_P4_24831_30900705	NC_021161.1	Ca_kabuli_chr02	30900705	GG	AA	1946762131
SNP_P4_24833_30902858	NC_021161.1	Ca_kabuli_chr02	30902858	TT	CC	1946762133
SNP_P4_24834_30904458	NC_021161.1	Ca_kabuli_chr02	30904458	AA	GG	1946762135
SNP_P4_24835_30904515	NC_021161.1	Ca_kabuli_chr02	30904515	GG	AA	1946762137
SNP_P4_24837_30905192	NC_021161.1	Ca_kabuli_chr02	30905192	TT	AA	1946762139
SNP_P4_24839_30905750	NC_021161.1	Ca_kabuli_chr02	30905750	TT	CC	1946762141
SNP_P4_24840_30905964	NC_021161.1	Ca_kabuli_chr02	30905964	CC	TT	1946762143
SNP_P4_24841_30906753	NC_021161.1	Ca_kabuli_chr02	30906753	AA	TT	1946762145
SNP_P4_24843_30907492	NC_021161.1	Ca_kabuli_chr02	30907492	GG	AA	1946762147
SNP_P4_24844_30907792	NC_021161.1	Ca_kabuli_chr02	30907792	AA	GG	1946762149
SNP_P4_24845_30910523	NC_021161.1	Ca_kabuli_chr02	30910523	AA	GG	1946762151
SNP_P4_24846_30910547	NC_021161.1	Ca_kabuli_chr02	30910547	GG	AA	1946762153
SNP_P4_24848_30912722	NC_021161.1	Ca_kabuli_chr02	30912722	CC	AA	1946762155
SNP_P4_24849_30914337	NC_021161.1	Ca_kabuli_chr02	30914337	TT	AA	1946762157
SNP_P4_24850_30915238	NC_021161.1	Ca_kabuli_chr02	30915238	CC	TT	1946762159
SNP_P4_24851_30915243	NC_021161.1	Ca_kabuli_chr02	30915243	GG	AA	1946762161
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SNP_P4_24854_30916131	NC_021161.1	Ca_kabuli_chr02	30916131	AA	GG	1946762165
SNP_P4_24855_30916155	NC_021161.1	Ca_kabuli_chr02	30916155	CC	TT	1946762167
SNP_P4_24857_30916189	NC_021161.1	Ca_kabuli_chr02	30916189	AA	GG	1946762169
SNP_P4_24858_30916353	NC_021161.1	Ca_kabuli_chr02	30916353	TT	AA	1946762171
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SNP_P4_24860_30919973	NC_021161.1	Ca_kabuli_chr02	30919973	CC	TT	1946762174
SNP_P4_24861_30920224	NC_021161.1	Ca_kabuli_chr02	30920224	TT	AA	1946762176
SNP_P4_24862_30920461	NC_021161.1	Ca_kabuli_chr02	30920461	TT	CC	1946762178
SNP_P4_24863_30922708	NC_021161.1	Ca_kabuli_chr02	30922708	TT	CC	1946762180
SNP_P4_24864_30923027	NC_021161.1	Ca_kabuli_chr02	30923027	AA	CC	1946762182
SNP_P4_24865_30923393	NC_021161.1	Ca_kabuli_chr02	30923393	CC	TT	1946762184
SNP_P4_24866_30923433	NC_021161.1	Ca_kabuli_chr02	30923433	AA	GG	1946762186
SNP_P4_24868_30929398	NC_021161.1	Ca_kabuli_chr02	30929398	TT	AA	1946762188
SNP_P4_24869_30929413	NC_021161.1	Ca_kabuli_chr02	30929413	GG	AA	1946762190
SNP_P4_24870_30929795	NC_021161.1	Ca_kabuli_chr02	30929795	AA	GG	1946762192
SNP_P4_24871_30930075	NC_021161.1	Ca_kabuli_chr02	30930075	AA	GG	1946762194
SNP_P4_24872_30930318	NC_021161.1	Ca_kabuli_chr02	30930318	AA	GG	1946762196
SNP_P4_24873_30931260	NC_021161.1	Ca_kabuli_chr02	30931260	AA	GG	1946762198
SNP_P4_24874_30931266	NC_021161.1	Ca_kabuli_chr02	30931266	CC	TT	1946762200
SNP_P4_24875_30931293	NC_021161.1	Ca_kabuli_chr02	30931293	GG	AA	1946762202
SNP_P4_24876_30933465	NC_021161.1	Ca_kabuli_chr02	30933465	AA	CC	1946762204
SNP_P4_24877_30933736	NC_021161.1	Ca_kabuli_chr02	30933736	TT	CC	1946762206

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_24880_30935458	NC_021161.1	Ca_kabuli_chr02	30935458	CC	TT	1946762209
SNP_P4_24882_30936920	NC_021161.1	Ca_kabuli_chr02	30936920	TT	CC	1946762211
SNP_P4_24883_30936944	NC_021161.1	Ca_kabuli_chr02	30936944	TT	GG	1946762213
SNP_P4_24886_30937245	NC_021161.1	Ca_kabuli_chr02	30937245	AA	TT	1946762215
SNP_P4_24889_30939182	NC_021161.1	Ca_kabuli_chr02	30939182	GG	AA	1946762217
SNP_P4_24892_30941733	NC_021161.1	Ca_kabuli_chr02	30941733	CC	TT	1946762219
SNP_P4_24893_30941735	NC_021161.1	Ca_kabuli_chr02	30941735	TT	AA	1946762221
SNP_P4_24894_30941941	NC_021161.1	Ca_kabuli_chr02	30941941	TT	GG	1946762223
SNP_P4_24895_30942206	NC_021161.1	Ca_kabuli_chr02	30942206	TT	GG	1946762225
SNP_P4_24896_30942554	NC_021161.1	Ca_kabuli_chr02	30942554	TT	GG	1946762227
SNP_P4_24897_30942555	NC_021161.1	Ca_kabuli_chr02	30942555	AA	GG	1946762229
SNP_P4_24898_30942659	NC_021161.1	Ca_kabuli_chr02	30942659	AA	GG	1946762231
SNP_P4_24899_30942729	NC_021161.1	Ca_kabuli_chr02	30942729	CC	AA	1946762233
SNP_P4_24900_30943057	NC_021161.1	Ca_kabuli_chr02	30943057	AA	TT	1946762235
SNP_P4_24901_30943059	NC_021161.1	Ca_kabuli_chr02	30943059	AA	CC	1946762237
SNP_P4_24902_30943090	NC_021161.1	Ca_kabuli_chr02	30943090	CC	AA	1946762239
SNP_P4_24903_30943278	NC_021161.1	Ca_kabuli_chr02	30943278	TT	CC	1946762241
SNP_P4_24904_30943783	NC_021161.1	Ca_kabuli_chr02	30943783	GG	AA	1946762243
SNP_P4_24905_30944536	NC_021161.1	Ca_kabuli_chr02	30944536	AA	TT	1946762245
SNP_P4_24906_30944551	NC_021161.1	Ca_kabuli_chr02	30944551	CC	TT	1946762247
SNP_P4_24908_30947034	NC_021161.1	Ca_kabuli_chr02	30947034	AA	GG	1946762249
SNP_P4_24909_30947253	NC_021161.1	Ca_kabuli_chr02	30947253	CC	TT	1946762251
SNP_P4_24910_30947607	NC_021161.1	Ca_kabuli_chr02	30947607	TT	CC	1946762253
SNP_P4_24911_30949078	NC_021161.1	Ca_kabuli_chr02	30949078	TT	CC	1946762255
SNP_P4_24912_30949148	NC_021161.1	Ca_kabuli_chr02	30949148	AA	GG	1946762257
SNP_P4_24914_30950434	NC_021161.1	Ca_kabuli_chr02	30950434	TT	AA	1946762259
SNP_P4_24916_30951536	NC_021161.1	Ca_kabuli_chr02	30951536	TT	CC	1946762261
SNP_P4_24917_30951922	NC_021161.1	Ca_kabuli_chr02	30951922	GG	CC	1946762263
SNP_P4_24918_30954199	NC_021161.1	Ca_kabuli_chr02	30954199	AA	GG	1946762265
SNP_P4_24920_30956852	NC_021161.1	Ca_kabuli_chr02	30956852	CC	AA	1946762267
SNP_P4_24922_30957004	NC_021161.1	Ca_kabuli_chr02	30957004	CC	TT	1946762269
SNP_P4_24923_30957389	NC_021161.1	Ca_kabuli_chr02	30957389	CC	TT	1946762271
SNP_P4_24926_30958066	NC_021161.1	Ca_kabuli_chr02	30958066	CC	AA	1946762273
SNP_P4_24927_30958856	NC_021161.1	Ca_kabuli_chr02	30958856	TT	GG	1946762275
SNP_P4_24928_30958871	NC_021161.1	Ca_kabuli_chr02	30958871	TT	CC	1946762277
SNP_P4_24929_30959113	NC_021161.1	Ca_kabuli_chr02	30959113	TT	AA	1946762279
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SNP_P4_24931_30962150	NC_021161.1	Ca_kabuli_chr02	30962150	TT	CC	1946762283
SNP_P4_24932_30962157	NC_021161.1	Ca_kabuli_chr02	30962157	TT	CC	1946762285
SNP_P4_24933_30962207	NC_021161.1	Ca_kabuli_chr02	30962207	CC	TT	1946762287
SNP_P4_24934_30962272	NC_021161.1	Ca_kabuli_chr02	30962272	TT	CC	1946762289

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_24936_30962415	NC_021161.1	Ca_kabuli_chr02	30962415	AA	GG	1946762293
SNP_P4_24937_30962498	NC_021161.1	Ca_kabuli_chr02	30962498	AA	GG	1946762295
SNP_P4_24938_30962632	NC_021161.1	Ca_kabuli_chr02	30962632	AA	GG	1946762297
SNP_P4_24939_30962645	NC_021161.1	Ca_kabuli_chr02	30962645	CC	AA	1946762299
SNP_P4_24940_30963191	NC_021161.1	Ca_kabuli_chr02	30963191	GG	TT	1946762301
SNP_P4_24941_30963199	NC_021161.1	Ca_kabuli_chr02	30963199	CC	TT	1946762303
SNP_P4_24942_30963208	NC_021161.1	Ca_kabuli_chr02	30963208	CC	TT	1946762305
SNP_P4_24943_30963218	NC_021161.1	Ca_kabuli_chr02	30963218	TT	GG	1946762307
SNP_P4_24944_30963252	NC_021161.1	Ca_kabuli_chr02	30963252	CC	GG	1946762309
SNP_P4_24945_30963433	NC_021161.1	Ca_kabuli_chr02	30963433	TT	CC	1946762311
SNP_P4_24946_30963461	NC_021161.1	Ca_kabuli_chr02	30963461	TT	CC	1946762313
SNP_P4_24947_30963482	NC_021161.1	Ca_kabuli_chr02	30963482	TT	CC	1946762315
SNP_P4_24948_30963548	NC_021161.1	Ca_kabuli_chr02	30963548	AA	TT	1946762317
SNP_P4_24949_30963589	NC_021161.1	Ca_kabuli_chr02	30963589	GG	AA	1946762319
SNP_P4_24951_30963694	NC_021161.1	Ca_kabuli_chr02	30963694	TT	AA	1946762321
SNP_P4_24952_30963870	NC_021161.1	Ca_kabuli_chr02	30963870	TT	AA	1946762323
SNP_P4_24953_30963884	NC_021161.1	Ca_kabuli_chr02	30963884	TT	CC	1946762325
SNP_P4_24955_30964104	NC_021161.1	Ca_kabuli_chr02	30964104	AA	CC	1946762327
SNP_P4_24956_30964140	NC_021161.1	Ca_kabuli_chr02	30964140	CC	AA	1946762329
SNP_P4_24957_30964158	NC_021161.1	Ca_kabuli_chr02	30964158	GG	TT	1946762331
SNP_P4_24958_30966172	NC_021161.1	Ca_kabuli_chr02	30966172	GG	AA	1946762333
SNP_P4_24959_30966222	NC_021161.1	Ca_kabuli_chr02	30966222	TT	GG	1946762335
SNP_P4_24960_30966427	NC_021161.1	Ca_kabuli_chr02	30966427	CC	TT	1946762337
SNP_P4_24961_30966492	NC_021161.1	Ca_kabuli_chr02	30966492	CC	TT	1946762339
SNP_P4_24962_30967970	NC_021161.1	Ca_kabuli_chr02	30967970	GG	AA	1946762341
SNP_P4_24963_30967986	NC_021161.1	Ca_kabuli_chr02	30967986	CC	GG	1946762344
SNP_P4_24964_30968026	NC_021161.1	Ca_kabuli_chr02	30968026	AA	GG	1946762346
SNP_P4_24966_30968055	NC_021161.1	Ca_kabuli_chr02	30968055	GG	AA	1946762348
SNP_P4_24967_30968059	NC_021161.1	Ca_kabuli_chr02	30968059	AA	CC	1946762351
SNP_P4_24968_30968094	NC_021161.1	Ca_kabuli_chr02	30968094	CC	TT	1946762353
SNP_P4_24969_30968174	NC_021161.1	Ca_kabuli_chr02	30968174	TT	GG	1946762355
SNP_P4_24973_30968584	NC_021161.1	Ca_kabuli_chr02	30968584	CC	AA	1946762357
SNP_P4_24974_30968624	NC_021161.1	Ca_kabuli_chr02	30968624	AA	CC	1946762360
SNP_P4_24975_30969098	NC_021161.1	Ca_kabuli_chr02	30969098	GG	TT	1946762362
SNP_P4_24976_30969175	NC_021161.1	Ca_kabuli_chr02	30969175	TT	AA	1946762364
SNP_P4_24977_30978624	NC_021161.1	Ca_kabuli_chr02	30978624	AA	GG	1946762366
SNP_P4_24978_30978633	NC_021161.1	Ca_kabuli_chr02	30978633	TT	CC	1946762368
SNP_P4_24979_30978890	NC_021161.1	Ca_kabuli_chr02	30978890	GG	CC	1946762370
SNP_P4_24981_30979164	NC_021161.1	Ca_kabuli_chr02	30979164	TT	AA	1946762372
SNP_P4_24982_30979221	NC_021161.1	Ca_kabuli_chr02	30979221	GG	TT	1946762374
SNP_P4_24983_30979224	NC_021161.1	Ca_kabuli_chr02	30979224	GG	AA	1946762376

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_24985_30979300	NC_021161.1	Ca_kabuli_chr02	30979300	GG	AA	1946762380
SNP_P4_24986_30980570	NC_021161.1	Ca_kabuli_chr02	30980570	CC	AA	1946762382
SNP_P4_24988_30983027	NC_021161.1	Ca_kabuli_chr02	30983027	GG	AA	1946762384
SNP_P4_24989_30983045	NC_021161.1	Ca_kabuli_chr02	30983045	TT	CC	1946762386
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SNP_P4_24991_30983062	NC_021161.1	Ca_kabuli_chr02	30983062	CC	TT	1946762390
SNP_P4_24992_30983063	NC_021161.1	Ca_kabuli_chr02	30983063	GG	TT	1946762392
SNP_P4_24995_30983409	NC_021161.1	Ca_kabuli_chr02	30983409	AA	GG	1946762394
SNP_P4_24996_30983572	NC_021161.1	Ca_kabuli_chr02	30983572	CC	TT	1946762396
SNP_P4_24997_30983581	NC_021161.1	Ca_kabuli_chr02	30983581	TT	GG	1946762398
SNP_P4_24999_30983697	NC_021161.1	Ca_kabuli_chr02	30983697	AA	GG	1946762400
SNP_P4_25000_30983703	NC_021161.1	Ca_kabuli_chr02	30983703	TT	AA	1946762402
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SNP_P4_25004_30997394	NC_021161.1	Ca_kabuli_chr02	30997394	TT	AA	1946762406
SNP_P4_25005_30999422	NC_021161.1	Ca_kabuli_chr02	30999422	GG	AA	1946762408
SNP_P4_25006_30999430	NC_021161.1	Ca_kabuli_chr02	30999430	GG	AA	1946762410
SNP_P4_25009_31000650	NC_021161.1	Ca_kabuli_chr02	31000650	GG	AA	1946762412
SNP_P4_25010_31000963	NC_021161.1	Ca_kabuli_chr02	31000963	GG	AA	1946762414
SNP_P4_25011_31000991	NC_021161.1	Ca_kabuli_chr02	31000991	AA	GG	1946762416
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SNP_P4_25013_31002769	NC_021161.1	Ca_kabuli_chr02	31002769	AA	GG	1946762420
SNP_P4_25017_31005307	NC_021161.1	Ca_kabuli_chr02	31005307	GG	TT	1946762422
SNP_P4_25018_31005309	NC_021161.1	Ca_kabuli_chr02	31005309	TT	CC	1946762424
SNP_P4_25019_31005336	NC_021161.1	Ca_kabuli_chr02	31005336	CC	GG	1946762426
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SNP_P4_25022_31007444	NC_021161.1	Ca_kabuli_chr02	31007444	AA	TT	1946762432
SNP_P4_25023_31008154	NC_021161.1	Ca_kabuli_chr02	31008154	TT	AA	1946762434
SNP_P4_25025_31013550	NC_021161.1	Ca_kabuli_chr02	31013550	AA	CC	1946762436
SNP_P4_25026_31030847	NC_021161.1	Ca_kabuli_chr02	31030847	AA	CC	1946762438
SNP_P4_25027_31080029	NC_021161.1	Ca_kabuli_chr02	31080029	AA	GG	1946762440
SNP_P4_25028_31109667	NC_021161.1	Ca_kabuli_chr02	31109667	CC	TT	1946762442
SNP_P4_25029_31120676	NC_021161.1	Ca_kabuli_chr02	31120676	GG	TT	1946762444
SNP_P4_25033_31153298	NC_021161.1	Ca_kabuli_chr02	31153298	GG	CC	1946762446
SNP_P4_25034_31218629	NC_021161.1	Ca_kabuli_chr02	31218629	TT	CC	1946762448
SNP_P4_25035_31220507	NC_021161.1	Ca_kabuli_chr02	31220507	AA	GG	1946762450
SNP_P4_25036_31225418	NC_021161.1	Ca_kabuli_chr02	31225418	AA	GG	1946762452
SNP_P4_25037_31225440	NC_021161.1	Ca_kabuli_chr02	31225440	AA	CC	1946762454
SNP_P4_25038_31225447	NC_021161.1	Ca_kabuli_chr02	31225447	TT	CC	1946762456
SNP_P4_25039_31225779	NC_021161.1	Ca_kabuli_chr02	31225779	AA	GG	1946762458
SNP_P4_25040_31225801	NC_021161.1	Ca_kabuli_chr02	31225801	TT	GG	1946762460

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_25043_31237075	NC_021161.1	Ca_kabuli_chr02	31237075	GG	TT	1946762466
SNP_P4_25044_31237394	NC_021161.1	Ca_kabuli_chr02	31237394	AA	TT	1946762468
SNP_P4_25045_31238308	NC_021161.1	Ca_kabuli_chr02	31238308	TT	CC	1946762470
SNP_P4_25046_31238320	NC_021161.1	Ca_kabuli_chr02	31238320	GG	TT	1946762472
SNP_P4_25047_31238329	NC_021161.1	Ca_kabuli_chr02	31238329	CC	AA	1946762474
SNP_P4_25048_31238333	NC_021161.1	Ca_kabuli_chr02	31238333	AA	CC	1946762476
SNP_P4_25049_31238338	NC_021161.1	Ca_kabuli_chr02	31238338	AA	GG	1946762478
SNP_P4_25050_31238342	NC_021161.1	Ca_kabuli_chr02	31238342	CC	TT	1946762480
SNP_P4_25051_31238344	NC_021161.1	Ca_kabuli_chr02	31238344	TT	CC	1946762482
SNP_P4_25052_31238351	NC_021161.1	Ca_kabuli_chr02	31238351	AA	TT	1946762484
SNP_P4_25053_31238352	NC_021161.1	Ca_kabuli_chr02	31238352	AA	GG	1946762486
SNP_P4_25054_31238393	NC_021161.1	Ca_kabuli_chr02	31238393	AA	GG	1946762488
SNP_P4_25055_31238398	NC_021161.1	Ca_kabuli_chr02	31238398	AA	GG	1946762490
SNP_P4_25056_31238434	NC_021161.1	Ca_kabuli_chr02	31238434	AA	TT	1946762492
SNP_P4_25057_31238444	NC_021161.1	Ca_kabuli_chr02	31238444	TT	CC	1946762494
SNP_P4_25058_31238488	NC_021161.1	Ca_kabuli_chr02	31238488	GG	AA	1946762496
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SNP_P4_25061_31238649	NC_021161.1	Ca_kabuli_chr02	31238649	GG	AA	1946762502
SNP_P4_25062_31238689	NC_021161.1	Ca_kabuli_chr02	31238689	AA	GG	1946762504
SNP_P4_25063_31238695	NC_021161.1	Ca_kabuli_chr02	31238695	CC	AA	1946762506
SNP_P4_25064_31238743	NC_021161.1	Ca_kabuli_chr02	31238743	AA	GG	1946762508
SNP_P4_25065_31239046	NC_021161.1	Ca_kabuli_chr02	31239046	TT	CC	1946762510
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SNP_P4_25070_31261304	NC_021161.1	Ca_kabuli_chr02	31261304	TT	CC	1946762518
SNP_P4_25071_31261329	NC_021161.1	Ca_kabuli_chr02	31261329	AA	GG	1946762520
SNP_P4_25072_31263330	NC_021161.1	Ca_kabuli_chr02	31263330	AA	GG	1946762522
SNP_P4_25073_31270709	NC_021161.1	Ca_kabuli_chr02	31270709	AA	GG	1946762524
SNP_P4_25075_31270733	NC_021161.1	Ca_kabuli_chr02	31270733	GG	AA	1946762525
SNP_P4_25076_31270747	NC_021161.1	Ca_kabuli_chr02	31270747	GG	AA	1946762527
SNP_P4_25077_31271116	NC_021161.1	Ca_kabuli_chr02	31271116	TT	AA	1946762529
SNP_P4_25079_31285188	NC_021161.1	Ca_kabuli_chr02	31285188	TT	GG	1946762531
SNP_P4_25080_31288740	NC_021161.1	Ca_kabuli_chr02	31288740	AA	CC	1946762533
SNP_P4_25081_31289984	NC_021161.1	Ca_kabuli_chr02	31289984	AA	CC	1946762535
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SNP_P4_25083_31290828	NC_021161.1	Ca_kabuli_chr02	31290828	AA	TT	1946762539
SNP_P4_25084_31293844	NC_021161.1	Ca_kabuli_chr02	31293844	AA	TT	1946762541
SNP_P4_25085_31295471	NC_021161.1	Ca_kabuli_chr02	31295471	AA	TT	1946762543

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_25089_31337931	NC_021161.1	Ca_kabuli_chr02	31337931	GG	AA	1946762547
SNP_P4_25090_31365945	NC_021161.1	Ca_kabuli_chr02	31365945	GG	TT	1946762549
SNP_P4_25091_31383986	NC_021161.1	Ca_kabuli_chr02	31383986	CC	TT	1946762551
SNP_P4_25092_31386704	NC_021161.1	Ca_kabuli_chr02	31386704	GG	AA	1946762553
SNP_P4_25094_31450217	NC_021161.1	Ca_kabuli_chr02	31450217	AA	TT	1946762555
SNP_P4_25095_31450239	NC_021161.1	Ca_kabuli_chr02	31450239	TT	CC	1946762557
SNP_P4_25096_31450300	NC_021161.1	Ca_kabuli_chr02	31450300	CC	AA	1946762559
SNP_P4_25097_31450347	NC_021161.1	Ca_kabuli_chr02	31450347	TT	CC	1946762561
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SNP_P4_25099_31450508	NC_021161.1	Ca_kabuli_chr02	31450508	AA	GG	1946762565
SNP_P4_25100_31450675	NC_021161.1	Ca_kabuli_chr02	31450675	AA	GG	1946762567
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SNP_P4_25103_31451572	NC_021161.1	Ca_kabuli_chr02	31451572	AA	GG	1946762573
SNP_P4_25104_31451585	NC_021161.1	Ca_kabuli_chr02	31451585	GG	AA	1946762575
SNP_P4_25105_31451594	NC_021161.1	Ca_kabuli_chr02	31451594	CC	TT	1946762577
SNP_P4_25106_31451618	NC_021161.1	Ca_kabuli_chr02	31451618	AA	TT	1946762579
SNP_P4_25107_31451653	NC_021161.1	Ca_kabuli_chr02	31451653	TT	CC	1946762581
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SNP_P4_25109_31451709	NC_021161.1	Ca_kabuli_chr02	31451709	CC	AA	1946762585
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SNP_P4_25111_31451949	NC_021161.1	Ca_kabuli_chr02	31451949	AA	CC	1946762589
SNP_P4_25112_31451963	NC_021161.1	Ca_kabuli_chr02	31451963	TT	CC	1946762591
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SNP_P4_25117_31483327	NC_021161.1	Ca_kabuli_chr02	31483327	AA	GG	1946762601
SNP_P4_25118_31491516	NC_021161.1	Ca_kabuli_chr02	31491516	AA	TT	1946762603
SNP_P4_25119_31498386	NC_021161.1	Ca_kabuli_chr02	31498386	GG	TT	1946762605
SNP_P4_25120_31499609	NC_021161.1	Ca_kabuli_chr02	31499609	TT	AA	1946762607
SNP_P4_25121_31516993	NC_021161.1	Ca_kabuli_chr02	31516993	GG	AA	1946762609
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SNP_P4_25123_31534100	NC_021161.1	Ca_kabuli_chr02	31534100	CC	TT	1946762613
SNP_P4_25124_31534502	NC_021161.1	Ca_kabuli_chr02	31534502	AA	TT	1946762615
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SNP_P4_25126_31534642	NC_021161.1	Ca_kabuli_chr02	31534642	TT	AA	1946762620
SNP_P4_25127_31534749	NC_021161.1	Ca_kabuli_chr02	31534749	AA	TT	1946762622
SNP_P4_25128_31534777	NC_021161.1	Ca_kabuli_chr02	31534777	CC	TT	1946762624
SNP_P4_25129_31534784	NC_021161.1	Ca_kabuli_chr02	31534784	GG	TT	1946762626
SNP_P4_25130_31534820	NC_021161.1	Ca_kabuli_chr02	31534820	AA	CC	1946762628

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_25134_31551415	NC_021161.1	Ca_kabuli_chr02	31551415	AA	GG	1946762634
SNP_P4_25135_31551674	NC_021161.1	Ca_kabuli_chr02	31551674	CC	TT	1946762636
SNP_P4_25136_31551825	NC_021161.1	Ca_kabuli_chr02	31551825	AA	GG	1946762638
SNP_P4_25137_31551866	NC_021161.1	Ca_kabuli_chr02	31551866	GG	AA	1946762640
SNP_P4_25138_31552257	NC_021161.1	Ca_kabuli_chr02	31552257	CC	TT	1946762642
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SNP_P4_25142_31605112	NC_021161.1	Ca_kabuli_chr02	31605112	TT	CC	1946762648
SNP_P4_25143_31605113	NC_021161.1	Ca_kabuli_chr02	31605113	TT	AA	1946762650
SNP_P4_25144_31605119	NC_021161.1	Ca_kabuli_chr02	31605119	CC	TT	1946762652
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SNP_P4_25149_31605479	NC_021161.1	Ca_kabuli_chr02	31605479	AA	GG	1946762662
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SNP_P4_25151_31605511	NC_021161.1	Ca_kabuli_chr02	31605511	AA	GG	1946762666
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SNP_P4_25153_31605568	NC_021161.1	Ca_kabuli_chr02	31605568	CC	AA	1946762670
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SNP_P4_25155_31612650	NC_021161.1	Ca_kabuli_chr02	31612650	CC	AA	1946762674
SNP_P4_25156_31631647	NC_021161.1	Ca_kabuli_chr02	31631647	CC	TT	1946762676
SNP_P4_25157_31631852	NC_021161.1	Ca_kabuli_chr02	31631852	CC	TT	1946762678
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SNP_P4_25159_31648055	NC_021161.1	Ca_kabuli_chr02	31648055	TT	GG	1946762682
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SNP_P4_25162_31700576	NC_021161.1	Ca_kabuli_chr02	31700576	TT	AA	1946762686
SNP_P4_25163_31700578	NC_021161.1	Ca_kabuli_chr02	31700578	AA	TT	1946762688
SNP_P4_25164_31703482	NC_021161.1	Ca_kabuli_chr02	31703482	CC	TT	1946762690
SNP_P4_25165_31716355	NC_021161.1	Ca_kabuli_chr02	31716355	GG	CC	1946762692
SNP_P4_25166_31720075	NC_021161.1	Ca_kabuli_chr02	31720075	AA	GG	1946762694
SNP_P4_25167_31720095	NC_021161.1	Ca_kabuli_chr02	31720095	CC	TT	1946762696
SNP_P4_25168_31720117	NC_021161.1	Ca_kabuli_chr02	31720117	TT	GG	1946762698
SNP_P4_25169_31720442	NC_021161.1	Ca_kabuli_chr02	31720442	TT	CC	1946762700
SNP_P4_25170_31734620	NC_021161.1	Ca_kabuli_chr02	31734620	TT	CC	1946762702
SNP_P4_25171_31736523	NC_021161.1	Ca_kabuli_chr02	31736523	GG	AA	1946762704
SNP_P4_25174_31779946	NC_021161.1	Ca_kabuli_chr02	31779946	TT	AA	1946762706
SNP_P4_25175_31810326	NC_021161.1	Ca_kabuli_chr02	31810326	TT	CC	1946762708
SNP_P4_25176_31812753	NC_021161.1	Ca_kabuli_chr02	31812753	GG	AA	1946762710
SNP_P4_25177_31839453	NC_021161.1	Ca_kabuli_chr02	31839453	GG	AA	1946762712

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_25180_31853942	NC_021161.1	Ca_kabuli_chr02	31853942	AA	TT	1946762714
SNP_P4_25181_31853943	NC_021161.1	Ca_kabuli_chr02	31853943	TT	AA	1946762716
SNP_P4_25182_31853989	NC_021161.1	Ca_kabuli_chr02	31853989	CC	TT	1946762718
SNP_P4_25183_31854601	NC_021161.1	Ca_kabuli_chr02	31854601	TT	AA	1946762720
SNP_P4_25184_31854617	NC_021161.1	Ca_kabuli_chr02	31854617	AA	CC	1946762722
SNP_P4_25186_31854680	NC_021161.1	Ca_kabuli_chr02	31854680	CC	TT	1946762724
SNP_P4_25188_31856090	NC_021161.1	Ca_kabuli_chr02	31856090	CC	TT	1946762726
SNP_P4_25189_31857180	NC_021161.1	Ca_kabuli_chr02	31857180	CC	TT	1946762728
SNP_P4_25190_31857182	NC_021161.1	Ca_kabuli_chr02	31857182	GG	AA	1946762730
SNP_P4_25191_31857658	NC_021161.1	Ca_kabuli_chr02	31857658	TT	AA	1946762732
SNP_P4_25192_31858124	NC_021161.1	Ca_kabuli_chr02	31858124	TT	CC	1946762734
SNP_P4_25193_31858173	NC_021161.1	Ca_kabuli_chr02	31858173	TT	AA	1946762736
SNP_P4_25197_31859211	NC_021161.1	Ca_kabuli_chr02	31859211	CC	GG	1946762738
SNP_P4_25199_31861126	NC_021161.1	Ca_kabuli_chr02	31861126	CC	TT	1946762740
SNP_P4_25201_31864375	NC_021161.1	Ca_kabuli_chr02	31864375	CC	TT	1946762742
SNP_P4_25203_31864456	NC_021161.1	Ca_kabuli_chr02	31864456	AA	GG	1946762744
SNP_P4_25204_31864688	NC_021161.1	Ca_kabuli_chr02	31864688	GG	AA	1946762746
SNP_P4_25205_31864888	NC_021161.1	Ca_kabuli_chr02	31864888	CC	TT	1946762748
SNP_P4_25206_31866455	NC_021161.1	Ca_kabuli_chr02	31866455	GG	TT	1946762750
SNP_P4_25207_31866487	NC_021161.1	Ca_kabuli_chr02	31866487	CC	TT	1946762752
SNP_P4_25208_31868098	NC_021161.1	Ca_kabuli_chr02	31868098	TT	CC	1946762754
SNP_P4_25209_31868107	NC_021161.1	Ca_kabuli_chr02	31868107	AA	CC	1946762756
SNP_P4_25210_31868109	NC_021161.1	Ca_kabuli_chr02	31868109	GG	AA	1946762758
SNP_P4_25211_31868122	NC_021161.1	Ca_kabuli_chr02	31868122	AA	TT	1946762760
SNP_P4_25212_31868370	NC_021161.1	Ca_kabuli_chr02	31868370	TT	CC	1946762762
SNP_P4_25213_31868393	NC_021161.1	Ca_kabuli_chr02	31868393	AA	GG	1946762764
SNP_P4_25214_31868408	NC_021161.1	Ca_kabuli_chr02	31868408	AA	GG	1946762766
SNP_P4_25215_31869268	NC_021161.1	Ca_kabuli_chr02	31869268	TT	AA	1946762768
SNP_P4_25216_31869320	NC_021161.1	Ca_kabuli_chr02	31869320	AA	TT	1946762770
SNP_P4_25217_31870258	NC_021161.1	Ca_kabuli_chr02	31870258	TT	CC	1946762772
SNP_P4_25218_31870791	NC_021161.1	Ca_kabuli_chr02	31870791	CC	GG	1946762774
SNP_P4_25219_31871001	NC_021161.1	Ca_kabuli_chr02	31871001	TT	CC	1946762776
SNP_P4_25221_31876734	NC_021161.1	Ca_kabuli_chr02	31876734	TT	GG	1946762778
SNP_P4_25222_31876750	NC_021161.1	Ca_kabuli_chr02	31876750	CC	TT	1946762780
SNP_P4_25223_31876755	NC_021161.1	Ca_kabuli_chr02	31876755	AA	GG	1946762782
SNP_P4_25225_31881396	NC_021161.1	Ca_kabuli_chr02	31881396	CC	TT	1946762784
SNP_P4_25226_31882232	NC_021161.1	Ca_kabuli_chr02	31882232	AA	TT	1946762786
SNP_P4_25227_31882685	NC_021161.1	Ca_kabuli_chr02	31882685	TT	CC	1946762788
SNP_P4_25228_31882696	NC_021161.1	Ca_kabuli_chr02	31882696	GG	AA	1946762790
SNP_P4_25229_31882768	NC_021161.1	Ca_kabuli_chr02	31882768	CC	GG	1946762792
SNP_P4_25230_31882830	NC_021161.1	Ca_kabuli_chr02	31882830	GG	AA	1946762794
SNP_P4_25231_31882840	NC_021161.1	Ca_kabuli_chr02	31882840	TT	CC	1946762796

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_25233_31882872	NC_021161.1	Ca_kabuli_chr02	31882872	TT	CC	1946762800
SNP_P4_25234_31882924	NC_021161.1	Ca_kabuli_chr02	31882924	AA	CC	1946762802
SNP_P4_25236_31882982	NC_021161.1	Ca_kabuli_chr02	31882982	TT	CC	1946762804
SNP_P4_25237_31882992	NC_021161.1	Ca_kabuli_chr02	31882992	AA	CC	1946762806
SNP_P4_25239_31883040	NC_021161.1	Ca_kabuli_chr02	31883040	AA	CC	1946762808
SNP_P4_25240_31883240	NC_021161.1	Ca_kabuli_chr02	31883240	CC	GG	1946762811
SNP_P4_25241_31883310	NC_021161.1	Ca_kabuli_chr02	31883310	AA	GG	1946762813
SNP_P4_25242_31883399	NC_021161.1	Ca_kabuli_chr02	31883399	TT	CC	1946762815
SNP_P4_25243_31883516	NC_021161.1	Ca_kabuli_chr02	31883516	TT	CC	1946762817
SNP_P4_25244_31883583	NC_021161.1	Ca_kabuli_chr02	31883583	GG	TT	1946762819
SNP_P4_25246_31883738	NC_021161.1	Ca_kabuli_chr02	31883738	CC	TT	1946762821
SNP_P4_25247_31883915	NC_021161.1	Ca_kabuli_chr02	31883915	GG	AA	1946762823
SNP_P4_25248_31884226	NC_021161.1	Ca_kabuli_chr02	31884226	GG	AA	1946762825
SNP_P4_25249_31884454	NC_021161.1	Ca_kabuli_chr02	31884454	GG	AA	1946762827
SNP_P4_25250_31884471	NC_021161.1	Ca_kabuli_chr02	31884471	GG	AA	1946762829
SNP_P4_25251_31884599	NC_021161.1	Ca_kabuli_chr02	31884599	CC	TT	1946762831
SNP_P4_25252_31885934	NC_021161.1	Ca_kabuli_chr02	31885934	AA	GG	1946762833
SNP_P4_25253_31891906	NC_021161.1	Ca_kabuli_chr02	31891906	GG	AA	1946762835
SNP_P4_25254_31892602	NC_021161.1	Ca_kabuli_chr02	31892602	CC	GG	1946762837
SNP_P4_25255_31892932	NC_021161.1	Ca_kabuli_chr02	31892932	CC	AA	1946762839
SNP_P4_25256_31893292	NC_021161.1	Ca_kabuli_chr02	31893292	AA	TT	1946762841
SNP_P4_25257_31895451	NC_021161.1	Ca_kabuli_chr02	31895451	AA	GG	1946762843
SNP_P4_25258_31896133	NC_021161.1	Ca_kabuli_chr02	31896133	CC	AA	1946762845
SNP_P4_25259_31896456	NC_021161.1	Ca_kabuli_chr02	31896456	TT	AA	1946762847
SNP_P4_25260_31896457	NC_021161.1	Ca_kabuli_chr02	31896457	TT	AA	1946762849
SNP_P4_25261_31896478	NC_021161.1	Ca_kabuli_chr02	31896478	TT	AA	1946762851
SNP_P4_25263_31896938	NC_021161.1	Ca_kabuli_chr02	31896938	TT	AA	1946762853
SNP_P4_25264_31897229	NC_021161.1	Ca_kabuli_chr02	31897229	TT	CC	1946762855
SNP_P4_25265_31897589	NC_021161.1	Ca_kabuli_chr02	31897589	AA	CC	1946762857
SNP_P4_25266_31898799	NC_021161.1	Ca_kabuli_chr02	31898799	TT	CC	1946762859
SNP_P4_25268_31899131	NC_021161.1	Ca_kabuli_chr02	31899131	TT	CC	1946762861
SNP_P4_25269_31899301	NC_021161.1	Ca_kabuli_chr02	31899301	GG	TT	1946762863
SNP_P4_25270_31899476	NC_021161.1	Ca_kabuli_chr02	31899476	AA	TT	1946762865
SNP_P4_25271_31899483	NC_021161.1	Ca_kabuli_chr02	31899483	AA	GG	1946762867
SNP_P4_25272_31902197	NC_021161.1	Ca_kabuli_chr02	31902197	CC	GG	1946762869
SNP_P4_25273_31903218	NC_021161.1	Ca_kabuli_chr02	31903218	TT	CC	1946762871
SNP_P4_25274_31905528	NC_021161.1	Ca_kabuli_chr02	31905528	GG	AA	1946762873
SNP_P4_25275_31906069	NC_021161.1	Ca_kabuli_chr02	31906069	TT	GG	1946762876
SNP_P4_25276_31906248	NC_021161.1	Ca_kabuli_chr02	31906248	AA	TT	1946762878
SNP_P4_25277_31906568	NC_021161.1	Ca_kabuli_chr02	31906568	GG	AA	1946762879
SNP_P4_25278_31906642	NC_021161.1	Ca_kabuli_chr02	31906642	GG	AA	1946762881

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_25280_31907403	NC_021161.1	Ca_kabuli_chr02	31907403	TT	CC	1946762885
SNP_P4_25281_31907541	NC_021161.1	Ca_kabuli_chr02	31907541	AA	TT	1946762887
SNP_P4_25282_31907629	NC_021161.1	Ca_kabuli_chr02	31907629	AA	GG	1946762889
SNP_P4_25283_31908377	NC_021161.1	Ca_kabuli_chr02	31908377	GG	AA	1946762891
SNP_P4_25284_31910565	NC_021161.1	Ca_kabuli_chr02	31910565	AA	GG	1946762893
SNP_P4_25285_31911183	NC_021161.1	Ca_kabuli_chr02	31911183	GG	AA	1946762895
SNP_P4_25286_31911295	NC_021161.1	Ca_kabuli_chr02	31911295	AA	GG	1946762897
SNP_P4_25287_31911365	NC_021161.1	Ca_kabuli_chr02	31911365	GG	AA	1946762899
SNP_P4_25288_31911423	NC_021161.1	Ca_kabuli_chr02	31911423	CC	TT	1946762901
SNP_P4_25289_31911657	NC_021161.1	Ca_kabuli_chr02	31911657	AA	TT	1946762903
SNP_P4_25290_31914223	NC_021161.1	Ca_kabuli_chr02	31914223	AA	GG	1946762905
SNP_P4_25291_31914593	NC_021161.1	Ca_kabuli_chr02	31914593	AA	CC	1946762907
SNP_P4_25292_31914833	NC_021161.1	Ca_kabuli_chr02	31914833	GG	AA	1946762909
SNP_P4_25293_31914912	NC_021161.1	Ca_kabuli_chr02	31914912	CC	TT	1946762911
SNP_P4_25294_31914932	NC_021161.1	Ca_kabuli_chr02	31914932	GG	CC	1946762913
SNP_P4_25295_31915837	NC_021161.1	Ca_kabuli_chr02	31915837	AA	CC	1946762915
SNP_P4_25296_31916539	NC_021161.1	Ca_kabuli_chr02	31916539	AA	GG	1946762917
SNP_P4_25297_31916907	NC_021161.1	Ca_kabuli_chr02	31916907	AA	GG	1946762919
SNP_P4_25298_31916938	NC_021161.1	Ca_kabuli_chr02	31916938	AA	TT	1946762921
SNP_P4_25299_31917104	NC_021161.1	Ca_kabuli_chr02	31917104	AA	GG	1946762923
SNP_P4_25300_31917372	NC_021161.1	Ca_kabuli_chr02	31917372	TT	CC	1946762925
SNP_P4_25302_31918726	NC_021161.1	Ca_kabuli_chr02	31918726	TT	CC	1946762927
SNP_P4_25303_31918923	NC_021161.1	Ca_kabuli_chr02	31918923	TT	CC	1946762929
SNP_P4_25304_31918954	NC_021161.1	Ca_kabuli_chr02	31918954	AA	GG	1946762931
SNP_P4_25305_31919747	NC_021161.1	Ca_kabuli_chr02	31919747	CC	TT	1946762933
SNP_P4_25306_31920248	NC_021161.1	Ca_kabuli_chr02	31920248	CC	AA	1946762935
SNP_P4_25307_31921536	NC_021161.1	Ca_kabuli_chr02	31921536	GG	AA	1946762937
SNP_P4_25308_31921538	NC_021161.1	Ca_kabuli_chr02	31921538	AA	GG	1946762939
SNP_P4_25309_31922945	NC_021161.1	Ca_kabuli_chr02	31922945	AA	TT	1946762941
SNP_P4_25310_31922956	NC_021161.1	Ca_kabuli_chr02	31922956	AA	GG	1946762943
SNP_P4_25311_31922960	NC_021161.1	Ca_kabuli_chr02	31922960	AA	GG	1946762945
SNP_P4_25312_31922977	NC_021161.1	Ca_kabuli_chr02	31922977	TT	GG	1946762947
SNP_P4_25313_31923321	NC_021161.1	Ca_kabuli_chr02	31923321	GG	AA	1946762949
SNP_P4_25314_31923720	NC_021161.1	Ca_kabuli_chr02	31923720	TT	CC	1946762951
SNP_P4_25315_31923753	NC_021161.1	Ca_kabuli_chr02	31923753	GG	AA	1946762953
SNP_P4_25316_31923894	NC_021161.1	Ca_kabuli_chr02	31923894	CC	TT	1946762955
SNP_P4_25317_31923972	NC_021161.1	Ca_kabuli_chr02	31923972	GG	AA	1946762957
SNP_P4_25318_31923975	NC_021161.1	Ca_kabuli_chr02	31923975	GG	AA	1946762959
SNP_P4_25319_31926349	NC_021161.1	Ca_kabuli_chr02	31926349	GG	AA	1946762961
SNP_P4_25321_31927009	NC_021161.1	Ca_kabuli_chr02	31927009	AA	GG	1946762963
SNP_P4_25322_31927235	NC_021161.1	Ca_kabuli_chr02	31927235	AA	CC	1946762965

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_25324_31927407	NC_021161.1	Ca_kabuli_chr02	31927407	CC	TT	1946762969
SNP_P4_25325_31927411	NC_021161.1	Ca_kabuli_chr02	31927411	CC	AA	1946762971
SNP_P4_25326_31929396	NC_021161.1	Ca_kabuli_chr02	31929396	AA	TT	1946762973
SNP_P4_25327_31929633	NC_021161.1	Ca_kabuli_chr02	31929633	AA	TT	1946762975
SNP_P4_25329_31929882	NC_021161.1	Ca_kabuli_chr02	31929882	AA	GG	1946762977
SNP_P4_25330_31929913	NC_021161.1	Ca_kabuli_chr02	31929913	TT	CC	1946762979
SNP_P4_25331_31930090	NC_021161.1	Ca_kabuli_chr02	31930090	AA	TT	1946762981
SNP_P4_25332_31930092	NC_021161.1	Ca_kabuli_chr02	31930092	TT	CC	1946762983
SNP_P4_25333_31930112	NC_021161.1	Ca_kabuli_chr02	31930112	AA	GG	1946762985
SNP_P4_25334_31930410	NC_021161.1	Ca_kabuli_chr02	31930410	GG	AA	1946762987
SNP_P4_25335_31930651	NC_021161.1	Ca_kabuli_chr02	31930651	TT	CC	1946762989
SNP_P4_25336_31930669	NC_021161.1	Ca_kabuli_chr02	31930669	CC	AA	1946762991
SNP_P4_25337_31930694	NC_021161.1	Ca_kabuli_chr02	31930694	GG	AA	1946762993
SNP_P4_25338_31930722	NC_021161.1	Ca_kabuli_chr02	31930722	GG	TT	1946762995
SNP_P4_25339_31930765	NC_021161.1	Ca_kabuli_chr02	31930765	GG	AA	1946762997
SNP_P4_25340_31930795	NC_021161.1	Ca_kabuli_chr02	31930795	TT	CC	1946762999
SNP_P4_25341_31931046	NC_021161.1	Ca_kabuli_chr02	31931046	CC	AA	1946763001
SNP_P4_25342_31931081	NC_021161.1	Ca_kabuli_chr02	31931081	TT	AA	1946763003
SNP_P4_25344_31931114	NC_021161.1	Ca_kabuli_chr02	31931114	TT	AA	1946763005
SNP_P4_25346_31931452	NC_021161.1	Ca_kabuli_chr02	31931452	GG	AA	1946763007
SNP_P4_25347_31931487	NC_021161.1	Ca_kabuli_chr02	31931487	AA	TT	1946763009
SNP_P4_25348_31931666	NC_021161.1	Ca_kabuli_chr02	31931666	AA	GG	1946763011
SNP_P4_25349_31931668	NC_021161.1	Ca_kabuli_chr02	31931668	TT	CC	1946763013
SNP_P4_25350_31931696	NC_021161.1	Ca_kabuli_chr02	31931696	GG	AA	1946763015
SNP_P4_25351_31931808	NC_021161.1	Ca_kabuli_chr02	31931808	TT	AA	1946763017
SNP_P4_25352_31931889	NC_021161.1	Ca_kabuli_chr02	31931889	CC	TT	1946763019
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SNP_P4_25354_31933700	NC_021161.1	Ca_kabuli_chr02	31933700	GG	AA	1946763023
SNP_P4_25355_31933742	NC_021161.1	Ca_kabuli_chr02	31933742	GG	AA	1946763025
SNP_P4_25356_31933751	NC_021161.1	Ca_kabuli_chr02	31933751	CC	TT	1946763027
SNP_P4_25358_31933942	NC_021161.1	Ca_kabuli_chr02	31933942	CC	AA	1946763029
SNP_P4_25359_31935426	NC_021161.1	Ca_kabuli_chr02	31935426	GG	TT	1946763031
SNP_P4_25360_31935430	NC_021161.1	Ca_kabuli_chr02	31935430	CC	TT	1946763033
SNP_P4_25361_31935462	NC_021161.1	Ca_kabuli_chr02	31935462	AA	GG	1946763035
SNP_P4_25362_31935752	NC_021161.1	Ca_kabuli_chr02	31935752	CC	TT	1946763037
SNP_P4_25364_31936308	NC_021161.1	Ca_kabuli_chr02	31936308	GG	AA	1946763039
SNP_P4_25366_31937440	NC_021161.1	Ca_kabuli_chr02	31937440	TT	AA	1946763041
SNP_P4_25368_31937998	NC_021161.1	Ca_kabuli_chr02	31937998	TT	AA	1946763043
SNP_P4_25369_31938199	NC_021161.1	Ca_kabuli_chr02	31938199	TT	AA	1946763045
SNP_P4_25370_31938352	NC_021161.1	Ca_kabuli_chr02	31938352	AA	TT	1946763047
SNP_P4_25371_31938755	NC_021161.1	Ca_kabuli_chr02	31938755	CC	TT	1946763049

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_25374_31939152	NC_021161.1	Ca_kabuli_chr02	31939152	TT	CC	1946763053
SNP_P4_25376_31943674	NC_021161.1	Ca_kabuli_chr02	31943674	GG	AA	1946763055
SNP_P4_25378_31945727	NC_021161.1	Ca_kabuli_chr02	31945727	TT	GG	1946763057
SNP_P4_25380_31945883	NC_021161.1	Ca_kabuli_chr02	31945883	AA	GG	1946763059
SNP_P4_25381_31946074	NC_021161.1	Ca_kabuli_chr02	31946074	TT	GG	1946763061
SNP_P4_25382_31946082	NC_021161.1	Ca_kabuli_chr02	31946082	GG	AA	1946763063
SNP_P4_25383_31946101	NC_021161.1	Ca_kabuli_chr02	31946101	CC	AA	1946763065
SNP_P4_25384_31946112	NC_021161.1	Ca_kabuli_chr02	31946112	TT	CC	1946763067
SNP_P4_25385_31946115	NC_021161.1	Ca_kabuli_chr02	31946115	CC	AA	1946763069
SNP_P4_25386_31947029	NC_021161.1	Ca_kabuli_chr02	31947029	GG	AA	1946763071
SNP_P4_25387_31947041	NC_021161.1	Ca_kabuli_chr02	31947041	CC	TT	1946763073
SNP_P4_25388_31947091	NC_021161.1	Ca_kabuli_chr02	31947091	GG	AA	1946763075
SNP_P4_25389_31947522	NC_021161.1	Ca_kabuli_chr02	31947522	GG	TT	1946763077
SNP_P4_25390_31947552	NC_021161.1	Ca_kabuli_chr02	31947552	AA	GG	1946763079
SNP_P4_25391_31947563	NC_021161.1	Ca_kabuli_chr02	31947563	GG	AA	1946763081
SNP_P4_25392_31947583	NC_021161.1	Ca_kabuli_chr02	31947583	CC	TT	1946763083
SNP_P4_25393_31947590	NC_021161.1	Ca_kabuli_chr02	31947590	AA	CC	1946763085
SNP_P4_25394_31947663	NC_021161.1	Ca_kabuli_chr02	31947663	TT	CC	1946763087
SNP_P4_25395_31947834	NC_021161.1	Ca_kabuli_chr02	31947834	AA	GG	1946763089
SNP_P4_25396_31948453	NC_021161.1	Ca_kabuli_chr02	31948453	AA	GG	1946763091
SNP_P4_25397_31949614	NC_021161.1	Ca_kabuli_chr02	31949614	CC	GG	1946763093
SNP_P4_25398_31949650	NC_021161.1	Ca_kabuli_chr02	31949650	GG	AA	1946763095
SNP_P4_25399_31949863	NC_021161.1	Ca_kabuli_chr02	31949863	AA	GG	1946763097
SNP_P4_25400_31949947	NC_021161.1	Ca_kabuli_chr02	31949947	CC	TT	1946763099
SNP_P4_25401_31950009	NC_021161.1	Ca_kabuli_chr02	31950009	GG	CC	1946763101
SNP_P4_25402_31950028	NC_021161.1	Ca_kabuli_chr02	31950028	AA	TT	1946763103
SNP_P4_25403_31950656	NC_021161.1	Ca_kabuli_chr02	31950656	GG	AA	1946763105
SNP_P4_25404_31950788	NC_021161.1	Ca_kabuli_chr02	31950788	CC	TT	1946763107
SNP_P4_25407_31950996	NC_021161.1	Ca_kabuli_chr02	31950996	TT	GG	1946763109
SNP_P4_25408_31951015	NC_021161.1	Ca_kabuli_chr02	31951015	GG	AA	1946763111
SNP_P4_25409_31951652	NC_021161.1	Ca_kabuli_chr02	31951652	TT	CC	1946763113
SNP_P4_25410_31952914	NC_021161.1	Ca_kabuli_chr02	31952914	AA	TT	1946763115
SNP_P4_25411_31952915	NC_021161.1	Ca_kabuli_chr02	31952915	AA	TT	1946763117
SNP_P4_25412_31952916	NC_021161.1	Ca_kabuli_chr02	31952916	AA	TT	1946763119
SNP_P4_25413_31952917	NC_021161.1	Ca_kabuli_chr02	31952917	AA	TT	1946763121
SNP_P4_25414_31953450	NC_021161.1	Ca_kabuli_chr02	31953450	TT	GG	1946763123
SNP_P4_25415_31953510	NC_021161.1	Ca_kabuli_chr02	31953510	TT	CC	1946763125
SNP_P4_25417_31953718	NC_021161.1	Ca_kabuli_chr02	31953718	TT	AA	1946763127
SNP_P4_25419_31955217	NC_021161.1	Ca_kabuli_chr02	31955217	TT	AA	1946763129
SNP_P4_25420_31955463	NC_021161.1	Ca_kabuli_chr02	31955463	CC	TT	1946763131
SNP_P4_25421_31955526	NC_021161.1	Ca_kabuli_chr02	31955526	CC	AA	1946763133

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_25423_31955648	NC_021161.1	Ca_kabuli_chr02	31955648	CC	TT	1946763137
SNP_P4_25425_31955715	NC_021161.1	Ca_kabuli_chr02	31955715	AA	GG	1946763139
SNP_P4_25427_31955824	NC_021161.1	Ca_kabuli_chr02	31955824	CC	GG	1946763141
SNP_P4_25428_31955875	NC_021161.1	Ca_kabuli_chr02	31955875	GG	TT	1946763143
SNP_P4_25429_31956019	NC_021161.1	Ca_kabuli_chr02	31956019	TT	CC	1946763145
SNP_P4_25430_31958080	NC_021161.1	Ca_kabuli_chr02	31958080	AA	GG	1946763147
SNP_P4_25431_31958099	NC_021161.1	Ca_kabuli_chr02	31958099	GG	AA	1946763149
SNP_P4_25432_31958120	NC_021161.1	Ca_kabuli_chr02	31958120	GG	AA	1946763151
SNP_P4_25433_31958123	NC_021161.1	Ca_kabuli_chr02	31958123	GG	AA	1946763153
SNP_P4_25434_31958216	NC_021161.1	Ca_kabuli_chr02	31958216	AA	GG	1946763155
SNP_P4_25435_31958227	NC_021161.1	Ca_kabuli_chr02	31958227	TT	CC	1946763157
SNP_P4_25436_31958313	NC_021161.1	Ca_kabuli_chr02	31958313	GG	AA	1946763159
SNP_P4_25437_31958372	NC_021161.1	Ca_kabuli_chr02	31958372	TT	CC	1946763161
SNP_P4_25438_31958390	NC_021161.1	Ca_kabuli_chr02	31958390	GG	AA	1946763163
SNP_P4_25439_31958409	NC_021161.1	Ca_kabuli_chr02	31958409	AA	GG	1946763165
SNP_P4_25440_31958471	NC_021161.1	Ca_kabuli_chr02	31958471	CC	TT	1946763167
SNP_P4_25441_31958564	NC_021161.1	Ca_kabuli_chr02	31958564	TT	AA	1946763169
SNP_P4_25442_31960075	NC_021161.1	Ca_kabuli_chr02	31960075	AA	GG	1946763171
SNP_P4_25444_31961265	NC_021161.1	Ca_kabuli_chr02	31961265	AA	GG	1946763173
SNP_P4_25445_31962644	NC_021161.1	Ca_kabuli_chr02	31962644	GG	AA	1946763175
SNP_P4_25447_31963984	NC_021161.1	Ca_kabuli_chr02	31963984	GG	AA	1946763177
SNP_P4_25450_31967297	NC_021161.1	Ca_kabuli_chr02	31967297	TT	CC	1946763180
SNP_P4_25451_31971745	NC_021161.1	Ca_kabuli_chr02	31971745	CC	AA	1946763182
SNP_P4_25452_31978422	NC_021161.1	Ca_kabuli_chr02	31978422	GG	AA	1946763184
SNP_P4_25453_31980563	NC_021161.1	Ca_kabuli_chr02	31980563	CC	GG	1946763186
SNP_P4_25454_31980913	NC_021161.1	Ca_kabuli_chr02	31980913	TT	CC	1946763188
SNP_P4_25456_31983449	NC_021161.1	Ca_kabuli_chr02	31983449	GG	TT	1946763190
SNP_P4_25458_31985149	NC_021161.1	Ca_kabuli_chr02	31985149	AA	GG	1946763192
SNP_P4_25459_31985615	NC_021161.1	Ca_kabuli_chr02	31985615	CC	TT	1946763194
SNP_P4_25460_31988311	NC_021161.1	Ca_kabuli_chr02	31988311	AA	GG	1946763196
SNP_P4_25461_31988613	NC_021161.1	Ca_kabuli_chr02	31988613	GG	AA	1946763198
SNP_P4_25462_31988869	NC_021161.1	Ca_kabuli_chr02	31988869	AA	TT	1946763200
SNP_P4_25463_31989168	NC_021161.1	Ca_kabuli_chr02	31989168	TT	AA	1946763202
SNP_P4_25464_31991334	NC_021161.1	Ca_kabuli_chr02	31991334	TT	CC	1946763204
SNP_P4_25466_31991673	NC_021161.1	Ca_kabuli_chr02	31991673	TT	CC	1946763206
SNP_P4_25467_31992297	NC_021161.1	Ca_kabuli_chr02	31992297	GG	TT	1946763208
SNP_P4_25468_31992321	NC_021161.1	Ca_kabuli_chr02	31992321	AA	GG	1946763210
SNP_P4_25469_31992710	NC_021161.1	Ca_kabuli_chr02	31992710	TT	CC	1946763212
SNP_P4_25470_31992789	NC_021161.1	Ca_kabuli_chr02	31992789	AA	GG	1946763214
SNP_P4_25471_31995017	NC_021161.1	Ca_kabuli_chr02	31995017	GG	AA	1946763216
SNP_P4_25472_31995041	NC_021161.1	Ca_kabuli_chr02	31995041	AA	GG	1946763218

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_25475_31997903	NC_021161.1	Ca_kabuli_chr02	31997903	GG	AA	1946763225
SNP_P4_25476_32001796	NC_021161.1	Ca_kabuli_chr02	32001796	TT	CC	1946763227
SNP_P4_25477_32001801	NC_021161.1	Ca_kabuli_chr02	32001801	GG	TT	1946763229
SNP_P4_25478_32001829	NC_021161.1	Ca_kabuli_chr02	32001829	CC	TT	1946763231
SNP_P4_25479_32002563	NC_021161.1	Ca_kabuli_chr02	32002563	TT	CC	1946763233
SNP_P4_25480_32002565	NC_021161.1	Ca_kabuli_chr02	32002565	TT	CC	1946763235
SNP_P4_25481_32002572	NC_021161.1	Ca_kabuli_chr02	32002572	TT	CC	1946763237
SNP_P4_25482_32002578	NC_021161.1	Ca_kabuli_chr02	32002578	AA	GG	1946763239
SNP_P4_25483_32002598	NC_021161.1	Ca_kabuli_chr02	32002598	AA	GG	1946763241
SNP_P4_25484_32002636	NC_021161.1	Ca_kabuli_chr02	32002636	CC	TT	1946763243
SNP_P4_25485_32002645	NC_021161.1	Ca_kabuli_chr02	32002645	AA	GG	1946763245
SNP_P4_25486_32003468	NC_021161.1	Ca_kabuli_chr02	32003468	TT	CC	1946763247
SNP_P4_25487_32003469	NC_021161.1	Ca_kabuli_chr02	32003469	TT	CC	1946763249
SNP_P4_25488_32003473	NC_021161.1	Ca_kabuli_chr02	32003473	GG	AA	1946763252
SNP_P4_25490_32004353	NC_021161.1	Ca_kabuli_chr02	32004353	GG	TT	1946763254
SNP_P4_25491_32006976	NC_021161.1	Ca_kabuli_chr02	32006976	CC	TT	1946763256
SNP_P4_25493_32007765	NC_021161.1	Ca_kabuli_chr02	32007765	CC	TT	1946763258
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SNP_P4_25496_32007942	NC_021161.1	Ca_kabuli_chr02	32007942	CC	AA	1946763264
SNP_P4_25497_32008147	NC_021161.1	Ca_kabuli_chr02	32008147	TT	AA	1946763266
SNP_P4_25498_32008190	NC_021161.1	Ca_kabuli_chr02	32008190	GG	CC	1946763268
SNP_P4_25499_32008191	NC_021161.1	Ca_kabuli_chr02	32008191	AA	TT	1946763270
SNP_P4_25500_32008534	NC_021161.1	Ca_kabuli_chr02	32008534	AA	TT	1946763272
SNP_P4_25501_32008535	NC_021161.1	Ca_kabuli_chr02	32008535	GG	TT	1946763274
SNP_P4_25502_32008549	NC_021161.1	Ca_kabuli_chr02	32008549	GG	AA	1946763276
SNP_P4_25503_32008584	NC_021161.1	Ca_kabuli_chr02	32008584	TT	CC	1946763278
SNP_P4_25505_32010482	NC_021161.1	Ca_kabuli_chr02	32010482	TT	CC	1946763281
SNP_P4_25506_32010497	NC_021161.1	Ca_kabuli_chr02	32010497	GG	AA	1946763283
SNP_P4_25507_32012842	NC_021161.1	Ca_kabuli_chr02	32012842	TT	AA	1946763285
SNP_P4_25509_32012972	NC_021161.1	Ca_kabuli_chr02	32012972	AA	GG	1946763287
SNP_P4_25510_32012984	NC_021161.1	Ca_kabuli_chr02	32012984	GG	AA	1946763289
SNP_P4_25511_32013090	NC_021161.1	Ca_kabuli_chr02	32013090	CC	AA	1946763291
SNP_P4_25512_32013095	NC_021161.1	Ca_kabuli_chr02	32013095	TT	CC	1946763293
SNP_P4_25513_32013098	NC_021161.1	Ca_kabuli_chr02	32013098	AA	TT	1946763295
SNP_P4_25515_32016456	NC_021161.1	Ca_kabuli_chr02	32016456	GG	AA	1946763297
SNP_P4_25516_32016457	NC_021161.1	Ca_kabuli_chr02	32016457	GG	TT	1946763299
SNP_P4_25517_32016487	NC_021161.1	Ca_kabuli_chr02	32016487	AA	GG	1946763301
SNP_P4_25518_32017255	NC_021161.1	Ca_kabuli_chr02	32017255	GG	AA	1946763303
SNP_P4_25519_32017935	NC_021161.1	Ca_kabuli_chr02	32017935	CC	TT	1946763305

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_25521_32018782	NC_021161.1	Ca_kabuli_chr02	32018782	AA	CC	1946763309
SNP_P4_25522_32019036	NC_021161.1	Ca_kabuli_chr02	32019036	CC	AA	1946763311
SNP_P4_25523_32019444	NC_021161.1	Ca_kabuli_chr02	32019444	GG	TT	1946763313
SNP_P4_25524_32022304	NC_021161.1	Ca_kabuli_chr02	32022304	GG	AA	1946763315
SNP_P4_25526_32022611	NC_021161.1	Ca_kabuli_chr02	32022611	AA	GG	1946763317
SNP_P4_25527_32022627	NC_021161.1	Ca_kabuli_chr02	32022627	CC	TT	1946763319
SNP_P4_25528_32022822	NC_021161.1	Ca_kabuli_chr02	32022822	GG	CC	1946763321
SNP_P4_25529_32023194	NC_021161.1	Ca_kabuli_chr02	32023194	AA	TT	1946763323
SNP_P4_25530_32023241	NC_021161.1	Ca_kabuli_chr02	32023241	GG	AA	1946763325
SNP_P4_25531_32023283	NC_021161.1	Ca_kabuli_chr02	32023283	CC	GG	1946763327
SNP_P4_25532_32025148	NC_021161.1	Ca_kabuli_chr02	32025148	AA	GG	1946763329
SNP_P4_25533_32025214	NC_021161.1	Ca_kabuli_chr02	32025214	TT	CC	1946763331
SNP_P4_25534_32025226	NC_021161.1	Ca_kabuli_chr02	32025226	GG	TT	1946763333
SNP_P4_25535_32025266	NC_021161.1	Ca_kabuli_chr02	32025266	CC	TT	1946763335
SNP_P4_25536_32025271	NC_021161.1	Ca_kabuli_chr02	32025271	CC	TT	1946763337
SNP_P4_25537_32030879	NC_021161.1	Ca_kabuli_chr02	32030879	TT	CC	1946763339
SNP_P4_25538_32030880	NC_021161.1	Ca_kabuli_chr02	32030880	AA	TT	1946763341
SNP_P4_25539_32030889	NC_021161.1	Ca_kabuli_chr02	32030889	AA	GG	1946763343
SNP_P4_25540_32030897	NC_021161.1	Ca_kabuli_chr02	32030897	GG	AA	1946763346
SNP_P4_25542_32032206	NC_021161.1	Ca_kabuli_chr02	32032206	TT	GG	1946763348
SNP_P4_25543_32033167	NC_021161.1	Ca_kabuli_chr02	32033167	CC	AA	1946763350
SNP_P4_25545_32038501	NC_021161.1	Ca_kabuli_chr02	32038501	TT	CC	1946763352
SNP_P4_25546_32039805	NC_021161.1	Ca_kabuli_chr02	32039805	CC	AA	1946763354
SNP_P4_25547_32040025	NC_021161.1	Ca_kabuli_chr02	32040025	TT	CC	1946763356
SNP_P4_25548_32040032	NC_021161.1	Ca_kabuli_chr02	32040032	CC	TT	1946763358
SNP_P4_25549_32040043	NC_021161.1	Ca_kabuli_chr02	32040043	GG	AA	1946763360
SNP_P4_25550_32040084	NC_021161.1	Ca_kabuli_chr02	32040084	GG	AA	1946763362
SNP_P4_25551_32040103	NC_021161.1	Ca_kabuli_chr02	32040103	GG	AA	1946763364
SNP_P4_25552_32046038	NC_021161.1	Ca_kabuli_chr02	32046038	AA	CC	1946763366
SNP_P4_25553_32048281	NC_021161.1	Ca_kabuli_chr02	32048281	CC	TT	1946763368
SNP_P4_25556_32048406	NC_021161.1	Ca_kabuli_chr02	32048406	AA	TT	1946763370
SNP_P4_25557_32054535	NC_021161.1	Ca_kabuli_chr02	32054535	GG	AA	1946763372
SNP_P4_25558_32056204	NC_021161.1	Ca_kabuli_chr02	32056204	AA	GG	1946763374
SNP_P4_25559_32056561	NC_021161.1	Ca_kabuli_chr02	32056561	CC	TT	1946763376
SNP_P4_25560_32056883	NC_021161.1	Ca_kabuli_chr02	32056883	CC	AA	1946763378
SNP_P4_25561_32060134	NC_021161.1	Ca_kabuli_chr02	32060134	CC	TT	1946763380
SNP_P4_25563_32060229	NC_021161.1	Ca_kabuli_chr02	32060229	AA	GG	1946763382
SNP_P4_25564_32060230	NC_021161.1	Ca_kabuli_chr02	32060230	CC	TT	1946763384
SNP_P4_25565_32060371	NC_021161.1	Ca_kabuli_chr02	32060371	TT	AA	1946763386
SNP_P4_25566_32060537	NC_021161.1	Ca_kabuli_chr02	32060537	AA	GG	1946763388
SNP_P4_25568_32062871	NC_021161.1	Ca_kabuli_chr02	32062871	AA	TT	1946763390

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_25570_32062901	NC_021161.1	Ca_kabuli_chr02	32062901	AA	GG	1946763394
SNP_P4_25571_32064388	NC_021161.1	Ca_kabuli_chr02	32064388	GG	CC	1946763396
SNP_P4_25573_32070676	NC_021161.1	Ca_kabuli_chr02	32070676	AA	GG	1946763398
SNP_P4_25575_32074490	NC_021161.1	Ca_kabuli_chr02	32074490	TT	CC	1946763401
SNP_P4_25577_32074774	NC_021161.1	Ca_kabuli_chr02	32074774	AA	GG	1946763403
SNP_P4_25578_32076071	NC_021161.1	Ca_kabuli_chr02	32076071	TT	AA	1946763405
SNP_P4_25579_32076355	NC_021161.1	Ca_kabuli_chr02	32076355	TT	CC	1946763407
SNP_P4_25580_32076554	NC_021161.1	Ca_kabuli_chr02	32076554	CC	AA	1946763409
SNP_P4_25582_32080071	NC_021161.1	Ca_kabuli_chr02	32080071	TT	CC	1946763411
SNP_P4_25583_32080094	NC_021161.1	Ca_kabuli_chr02	32080094	CC	GG	1946763413
SNP_P4_25584_32080763	NC_021161.1	Ca_kabuli_chr02	32080763	TT	CC	1946763415
SNP_P4_25587_32085452	NC_021161.1	Ca_kabuli_chr02	32085452	AA	TT	1946763417
SNP_P4_25588_32087122	NC_021161.1	Ca_kabuli_chr02	32087122	GG	CC	1946763419
SNP_P4_25589_32088914	NC_021161.1	Ca_kabuli_chr02	32088914	AA	CC	1946763421
SNP_P4_25590_32088918	NC_021161.1	Ca_kabuli_chr02	32088918	GG	TT	1946763423
SNP_P4_25591_32088931	NC_021161.1	Ca_kabuli_chr02	32088931	CC	GG	1946763425
SNP_P4_25592_32089074	NC_021161.1	Ca_kabuli_chr02	32089074	AA	GG	1946763427
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SNP_P4_25594_32089198	NC_021161.1	Ca_kabuli_chr02	32089198	TT	GG	1946763431
SNP_P4_25595_32089437	NC_021161.1	Ca_kabuli_chr02	32089437	GG	AA	1946763433
SNP_P4_25596_32089444	NC_021161.1	Ca_kabuli_chr02	32089444	AA	CC	1946763435
SNP_P4_25597_32089449	NC_021161.1	Ca_kabuli_chr02	32089449	CC	TT	1946763437
SNP_P4_25598_32089521	NC_021161.1	Ca_kabuli_chr02	32089521	CC	TT	1946763439
SNP_P4_25599_32089657	NC_021161.1	Ca_kabuli_chr02	32089657	TT	CC	1946763442
SNP_P4_25600_32096248	NC_021161.1	Ca_kabuli_chr02	32096248	TT	AA	1946763444
SNP_P4_25601_32096249	NC_021161.1	Ca_kabuli_chr02	32096249	CC	GG	1946763446
SNP_P4_25604_32098442	NC_021161.1	Ca_kabuli_chr02	32098442	AA	TT	1946763448
SNP_P4_25605_32098486	NC_021161.1	Ca_kabuli_chr02	32098486	AA	CC	1946763450
SNP_P4_25606_32098782	NC_021161.1	Ca_kabuli_chr02	32098782	GG	TT	1946763452
SNP_P4_25607_32098966	NC_021161.1	Ca_kabuli_chr02	32098966	GG	AA	1946763454
SNP_P4_25608_32098978	NC_021161.1	Ca_kabuli_chr02	32098978	GG	TT	1946763456
SNP_P4_25609_32098998	NC_021161.1	Ca_kabuli_chr02	32098998	CC	TT	1946763458
SNP_P4_25610_32099329	NC_021161.1	Ca_kabuli_chr02	32099329	CC	TT	1946763460
SNP_P4_25611_32099350	NC_021161.1	Ca_kabuli_chr02	32099350	TT	GG	1946763462
SNP_P4_25612_32099587	NC_021161.1	Ca_kabuli_chr02	32099587	TT	CC	1946763464
SNP_P4_25613_32099620	NC_021161.1	Ca_kabuli_chr02	32099620	GG	AA	1946763466
SNP_P4_25614_32100330	NC_021161.1	Ca_kabuli_chr02	32100330	CC	TT	1946763468
SNP_P4_25616_32103298	NC_021161.1	Ca_kabuli_chr02	32103298	GG	TT	1946763470
SNP_P4_25617_32104496	NC_021161.1	Ca_kabuli_chr02	32104496	AA	GG	1946763472
SNP_P4_25618_32104567	NC_021161.1	Ca_kabuli_chr02	32104567	AA	TT	1946763474
SNP_P4_25619_32104609	NC_021161.1	Ca_kabuli_chr02	32104609	GG	TT	1946763476

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_25622_32109577	NC_021161.1	Ca_kabuli_chr02	32109577	CC	TT	1946763482
SNP_P4_25623_32109585	NC_021161.1	Ca_kabuli_chr02	32109585	TT	CC	1946763484
SNP_P4_25624_32109605	NC_021161.1	Ca_kabuli_chr02	32109605	CC	TT	1946763486
SNP_P4_25625_32109904	NC_021161.1	Ca_kabuli_chr02	32109904	AA	TT	1946763488
SNP_P4_25626_32109931	NC_021161.1	Ca_kabuli_chr02	32109931	CC	TT	1946763490
SNP_P4_25627_32109940	NC_021161.1	Ca_kabuli_chr02	32109940	GG	AA	1946763492
SNP_P4_25628_32109999	NC_021161.1	Ca_kabuli_chr02	32109999	AA	GG	1946763494
SNP_P4_25629_32110001	NC_021161.1	Ca_kabuli_chr02	32110001	AA	TT	1946763496
SNP_P4_25630_32110165	NC_021161.1	Ca_kabuli_chr02	32110165	AA	GG	1946763498
SNP_P4_25632_32110254	NC_021161.1	Ca_kabuli_chr02	32110254	AA	GG	1946763500
SNP_P4_25633_32110255	NC_021161.1	Ca_kabuli_chr02	32110255	CC	TT	1946763502
SNP_P4_25634_32110279	NC_021161.1	Ca_kabuli_chr02	32110279	GG	AA	1946763504
SNP_P4_25635_32110423	NC_021161.1	Ca_kabuli_chr02	32110423	CC	TT	1946763506
SNP_P4_25636_32110433	NC_021161.1	Ca_kabuli_chr02	32110433	TT	AA	1946763508
SNP_P4_25637_32110436	NC_021161.1	Ca_kabuli_chr02	32110436	CC	AA	1946763510
SNP_P4_25638_32110468	NC_021161.1	Ca_kabuli_chr02	32110468	GG	AA	1946763512
SNP_P4_25639_32111102	NC_021161.1	Ca_kabuli_chr02	32111102	GG	AA	1946763514
SNP_P4_25640_32111107	NC_021161.1	Ca_kabuli_chr02	32111107	CC	AA	1946763516
SNP_P4_25641_32111115	NC_021161.1	Ca_kabuli_chr02	32111115	AA	GG	1946763518
SNP_P4_25642_32111136	NC_021161.1	Ca_kabuli_chr02	32111136	TT	CC	1946763520
SNP_P4_25643_32112221	NC_021161.1	Ca_kabuli_chr02	32112221	GG	AA	1946763522
SNP_P4_25644_32112422	NC_021161.1	Ca_kabuli_chr02	32112422	GG	AA	1946763524
SNP_P4_25645_32112452	NC_021161.1	Ca_kabuli_chr02	32112452	AA	GG	1946763526
SNP_P4_25647_32112776	NC_021161.1	Ca_kabuli_chr02	32112776	TT	CC	1946763528
SNP_P4_25648_32112966	NC_021161.1	Ca_kabuli_chr02	32112966	GG	TT	1946763530
SNP_P4_25649_32112972	NC_021161.1	Ca_kabuli_chr02	32112972	GG	AA	1946763532
SNP_P4_25650_32112975	NC_021161.1	Ca_kabuli_chr02	32112975	CC	TT	1946763534
SNP_P4_25651_32113086	NC_021161.1	Ca_kabuli_chr02	32113086	AA	CC	1946763536
SNP_P4_25652_32113131	NC_021161.1	Ca_kabuli_chr02	32113131	AA	GG	1946763538
SNP_P4_25653_32113415	NC_021161.1	Ca_kabuli_chr02	32113415	AA	TT	1946763540
SNP_P4_25654_32113525	NC_021161.1	Ca_kabuli_chr02	32113525	TT	GG	1946763543
SNP_P4_25655_32113526	NC_021161.1	Ca_kabuli_chr02	32113526	GG	AA	1946763545
SNP_P4_25656_32114381	NC_021161.1	Ca_kabuli_chr02	32114381	GG	AA	1946763547
SNP_P4_25657_32115654	NC_021161.1	Ca_kabuli_chr02	32115654	AA	GG	1946763549
SNP_P4_25658_32115969	NC_021161.1	Ca_kabuli_chr02	32115969	AA	TT	1946763551
SNP_P4_25660_32116274	NC_021161.1	Ca_kabuli_chr02	32116274	CC	AA	1946763553
SNP_P4_25662_32116521	NC_021161.1	Ca_kabuli_chr02	32116521	AA	CC	1946763555
SNP_P4_25664_32117594	NC_021161.1	Ca_kabuli_chr02	32117594	GG	AA	1946763557
SNP_P4_25665_32118171	NC_021161.1	Ca_kabuli_chr02	32118171	CC	TT	1946763559
SNP_P4_25666_32118348	NC_021161.1	Ca_kabuli_chr02	32118348	CC	TT	1946763561

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_25669_32118437	NC_021161.1	Ca_kabuli_chr02	32118437	CC	TT	1946763567
SNP_P4_25670_32118440	NC_021161.1	Ca_kabuli_chr02	32118440	AA	GG	1946763569
SNP_P4_25672_32118499	NC_021161.1	Ca_kabuli_chr02	32118499	GG	CC	1946763571
SNP_P4_25673_32118686	NC_021161.1	Ca_kabuli_chr02	32118686	AA	TT	1946763573
SNP_P4_25674_32118876	NC_021161.1	Ca_kabuli_chr02	32118876	AA	CC	1946763575
SNP_P4_25675_32118888	NC_021161.1	Ca_kabuli_chr02	32118888	TT	GG	1946763577
SNP_P4_25677_32118965	NC_021161.1	Ca_kabuli_chr02	32118965	AA	TT	1946763579
SNP_P4_25678_32119020	NC_021161.1	Ca_kabuli_chr02	32119020	GG	AA	1946763581
SNP_P4_25679_32119268	NC_021161.1	Ca_kabuli_chr02	32119268	TT	AA	1946763583
SNP_P4_25680_32119274	NC_021161.1	Ca_kabuli_chr02	32119274	TT	CC	1946763585
SNP_P4_25681_32122594	NC_021161.1	Ca_kabuli_chr02	32122594	CC	TT	1946763587
SNP_P4_25683_32122923	NC_021161.1	Ca_kabuli_chr02	32122923	TT	CC	1946763589
SNP_P4_25684_32122964	NC_021161.1	Ca_kabuli_chr02	32122964	CC	GG	1946763591
SNP_P4_25685_32122973	NC_021161.1	Ca_kabuli_chr02	32122973	CC	TT	1946763593
SNP_P4_25686_32122988	NC_021161.1	Ca_kabuli_chr02	32122988	CC	TT	1946763595
SNP_P4_25687_32125967	NC_021161.1	Ca_kabuli_chr02	32125967	AA	TT	1946763597
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SNP_P4_25689_32126036	NC_021161.1	Ca_kabuli_chr02	32126036	GG	TT	1946763602
SNP_P4_25690_32126137	NC_021161.1	Ca_kabuli_chr02	32126137	AA	GG	1946763604
SNP_P4_25691_32126327	NC_021161.1	Ca_kabuli_chr02	32126327	CC	TT	1946763606
SNP_P4_25692_32126332	NC_021161.1	Ca_kabuli_chr02	32126332	TT	GG	1946763608
SNP_P4_25693_32126379	NC_021161.1	Ca_kabuli_chr02	32126379	GG	AA	1946763610
SNP_P4_25694_32126412	NC_021161.1	Ca_kabuli_chr02	32126412	CC	TT	1946763612
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SNP_P4_25696_32126431	NC_021161.1	Ca_kabuli_chr02	32126431	AA	GG	1946763616
SNP_P4_25697_32126433	NC_021161.1	Ca_kabuli_chr02	32126433	CC	TT	1946763618
SNP_P4_25698_32126454	NC_021161.1	Ca_kabuli_chr02	32126454	AA	GG	1946763620
SNP_P4_25699_32126465	NC_021161.1	Ca_kabuli_chr02	32126465	GG	AA	1946763622
SNP_P4_25700_32126536	NC_021161.1	Ca_kabuli_chr02	32126536	CC	AA	1946763624
SNP_P4_25701_32126753	NC_021161.1	Ca_kabuli_chr02	32126753	CC	AA	1946763626
SNP_P4_25702_32126778	NC_021161.1	Ca_kabuli_chr02	32126778	TT	AA	1946763628
SNP_P4_25703_32126814	NC_021161.1	Ca_kabuli_chr02	32126814	GG	TT	1946763630
SNP_P4_25704_32126993	NC_021161.1	Ca_kabuli_chr02	32126993	AA	TT	1946763632
SNP_P4_25706_32127045	NC_021161.1	Ca_kabuli_chr02	32127045	GG	TT	1946763634
SNP_P4_25707_32127055	NC_021161.1	Ca_kabuli_chr02	32127055	TT	AA	1946763636
SNP_P4_25708_32127146	NC_021161.1	Ca_kabuli_chr02	32127146	AA	GG	1946763639
SNP_P4_25709_32127156	NC_021161.1	Ca_kabuli_chr02	32127156	AA	GG	1946763641
SNP_P4_25712_32130256	NC_021161.1	Ca_kabuli_chr02	32130256	TT	CC	1946763643
SNP_P4_25714_32130606	NC_021161.1	Ca_kabuli_chr02	32130606	CC	TT	1946763645
SNP_P4_25715_32131016	NC_021161.1	Ca_kabuli_chr02	32131016	AA	TT	1946763647

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_25718_32134773	NC_021161.1	Ca_kabuli_chr02	32134773	TT	CC	1946763653
SNP_P4_25719_32134971	NC_021161.1	Ca_kabuli_chr02	32134971	TT	GG	1946763655
SNP_P4_25720_32136790	NC_021161.1	Ca_kabuli_chr02	32136790	TT	CC	1946763657
SNP_P4_25721_32136809	NC_021161.1	Ca_kabuli_chr02	32136809	GG	AA	1946763659
SNP_P4_25722_32138354	NC_021161.1	Ca_kabuli_chr02	32138354	AA	GG	1946763661
SNP_P4_25723_32138418	NC_021161.1	Ca_kabuli_chr02	32138418	GG	AA	1946763663
SNP_P4_25724_32138420	NC_021161.1	Ca_kabuli_chr02	32138420	GG	AA	1946763665
SNP_P4_25725_32138464	NC_021161.1	Ca_kabuli_chr02	32138464	AA	GG	1946763667
SNP_P4_25726_32138888	NC_021161.1	Ca_kabuli_chr02	32138888	GG	CC	1946763669
SNP_P4_25727_32144840	NC_021161.1	Ca_kabuli_chr02	32144840	TT	AA	1946763671
SNP_P4_25729_32145012	NC_021161.1	Ca_kabuli_chr02	32145012	GG	AA	1946763673
SNP_P4_25730_32145260	NC_021161.1	Ca_kabuli_chr02	32145260	TT	CC	1946763675
SNP_P4_25731_32145299	NC_021161.1	Ca_kabuli_chr02	32145299	TT	AA	1946763677
SNP_P4_25732_32145761	NC_021161.1	Ca_kabuli_chr02	32145761	TT	CC	1946763679
SNP_P4_25733_32146482	NC_021161.1	Ca_kabuli_chr02	32146482	CC	TT	1946763681
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SNP_P4_25736_32147087	NC_021161.1	Ca_kabuli_chr02	32147087	TT	AA	1946763685
SNP_P4_25737_32147887	NC_021161.1	Ca_kabuli_chr02	32147887	AA	GG	1946763687
SNP_P4_25738_32150405	NC_021161.1	Ca_kabuli_chr02	32150405	GG	TT	1946763689
SNP_P4_25740_32152325	NC_021161.1	Ca_kabuli_chr02	32152325	AA	CC	1946763691
SNP_P4_25741_32152403	NC_021161.1	Ca_kabuli_chr02	32152403	CC	TT	1946763693
SNP_P4_25742_32152604	NC_021161.1	Ca_kabuli_chr02	32152604	AA	GG	1946763695
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SNP_P4_25752_32158200	NC_021161.1	Ca_kabuli_chr02	32158200	GG	TT	1946763708
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SNP_P4_25754_32158378	NC_021161.1	Ca_kabuli_chr02	32158378	CC	AA	1946763711
SNP_P4_25755_32158407	NC_021161.1	Ca_kabuli_chr02	32158407	CC	TT	1946763713
SNP_P4_25756_32158414	NC_021161.1	Ca_kabuli_chr02	32158414	TT	AA	1946763715
SNP_P4_25757_32158436	NC_021161.1	Ca_kabuli_chr02	32158436	AA	TT	1946763717
SNP_P4_25758_32158446	NC_021161.1	Ca_kabuli_chr02	32158446	AA	GG	1946763719
SNP_P4_25759_32158451	NC_021161.1	Ca_kabuli_chr02	32158451	GG	AA	1946763721
SNP_P4_25760_32158459	NC_021161.1	Ca_kabuli_chr02	32158459	AA	TT	1946763723
SNP_P4_25761_32158471	NC_021161.1	Ca_kabuli_chr02	32158471	AA	TT	1946763725
SNP_P4_25762_32158497	NC_021161.1	Ca_kabuli_chr02	32158497	CC	TT	1946763727

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_25765_32159430	NC_021161.1	Ca_kabuli_chr02	32159430	CC	TT	1946763733
SNP_P4_25766_32159443	NC_021161.1	Ca_kabuli_chr02	32159443	AA	GG	1946763735
SNP_P4_25768_32160781	NC_021161.1	Ca_kabuli_chr02	32160781	CC	AA	1946763737
SNP_P4_25769_32161076	NC_021161.1	Ca_kabuli_chr02	32161076	AA	CC	1946763739
SNP_P4_25770_32161125	NC_021161.1	Ca_kabuli_chr02	32161125	TT	GG	1946763741
SNP_P4_25771_32163008	NC_021161.1	Ca_kabuli_chr02	32163008	CC	TT	1946763743
SNP_P4_25772_32163699	NC_021161.1	Ca_kabuli_chr02	32163699	TT	CC	1946763745
SNP_P4_25773_32164083	NC_021161.1	Ca_kabuli_chr02	32164083	AA	TT	1946763747
SNP_P4_25774_32164175	NC_021161.1	Ca_kabuli_chr02	32164175	CC	TT	1946763749
SNP_P4_25775_32166368	NC_021161.1	Ca_kabuli_chr02	32166368	GG	AA	1946763751
SNP_P4_25776_32166550	NC_021161.1	Ca_kabuli_chr02	32166550	CC	TT	1946763753
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SNP_P4_25778_32166753	NC_021161.1	Ca_kabuli_chr02	32166753	AA	CC	1946763757
SNP_P4_25779_32166765	NC_021161.1	Ca_kabuli_chr02	32166765	TT	AA	1946763759
SNP_P4_25780_32166957	NC_021161.1	Ca_kabuli_chr02	32166957	CC	TT	1946763761
SNP_P4_25782_32168305	NC_021161.1	Ca_kabuli_chr02	32168305	TT	AA	1946763763
SNP_P4_25783_32168307	NC_021161.1	Ca_kabuli_chr02	32168307	AA	TT	1946763765
SNP_P4_25784_32168652	NC_021161.1	Ca_kabuli_chr02	32168652	TT	CC	1946763767
SNP_P4_25785_32168661	NC_021161.1	Ca_kabuli_chr02	32168661	AA	TT	1946763769
SNP_P4_25787_32168784	NC_021161.1	Ca_kabuli_chr02	32168784	CC	TT	1946763771
SNP_P4_25788_32168916	NC_021161.1	Ca_kabuli_chr02	32168916	CC	GG	1946763773
SNP_P4_25789_32169581	NC_021161.1	Ca_kabuli_chr02	32169581	TT	AA	1946763775
SNP_P4_25790_32172638	NC_021161.1	Ca_kabuli_chr02	32172638	CC	TT	1946763777
SNP_P4_25792_32175418	NC_021161.1	Ca_kabuli_chr02	32175418	AA	TT	1946763779
SNP_P4_25794_32178250	NC_021161.1	Ca_kabuli_chr02	32178250	CC	TT	1946763781
SNP_P4_25795_32178251	NC_021161.1	Ca_kabuli_chr02	32178251	AA	CC	1946763783
SNP_P4_25797_32178280	NC_021161.1	Ca_kabuli_chr02	32178280	GG	AA	1946763785
SNP_P4_25799_32179071	NC_021161.1	Ca_kabuli_chr02	32179071	AA	TT	1946763787
SNP_P4_25800_32179412	NC_021161.1	Ca_kabuli_chr02	32179412	AA	GG	1946763789
SNP_P4_25801_32182943	NC_021161.1	Ca_kabuli_chr02	32182943	TT	AA	1946763791
SNP_P4_25802_32182986	NC_021161.1	Ca_kabuli_chr02	32182986	AA	TT	1946763793
SNP_P4_25803_32182991	NC_021161.1	Ca_kabuli_chr02	32182991	TT	AA	1946763795
SNP_P4_25804_32183007	NC_021161.1	Ca_kabuli_chr02	32183007	CC	TT	1946763797
SNP_P4_25805_32183009	NC_021161.1	Ca_kabuli_chr02	32183009	TT	CC	1946763799
SNP_P4_25806_32183165	NC_021161.1	Ca_kabuli_chr02	32183165	GG	AA	1946763801
SNP_P4_25807_32183297	NC_021161.1	Ca_kabuli_chr02	32183297	AA	TT	1946763803
SNP_P4_25808_32183299	NC_021161.1	Ca_kabuli_chr02	32183299	GG	AA	1946763805
SNP_P4_25809_32183325	NC_021161.1	Ca_kabuli_chr02	32183325	TT	AA	1946763808
SNP_P4_25810_32183328	NC_021161.1	Ca_kabuli_chr02	32183328	TT	CC	1946763810
SNP_P4_25811_32183364	NC_021161.1	Ca_kabuli_chr02	32183364	TT	CC	1946763812

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_25813_32199294	NC_021161.1	Ca_kabuli_chr02	32199294	TT	AA	1946763816
SNP_P4_25814_32199639	NC_021161.1	Ca_kabuli_chr02	32199639	CC	TT	1946763818
SNP_P4_25816_32203427	NC_021161.1	Ca_kabuli_chr02	32203427	CC	GG	1946763820
SNP_P4_25817_32203527	NC_021161.1	Ca_kabuli_chr02	32203527	TT	CC	1946763822
SNP_P4_25818_32203753	NC_021161.1	Ca_kabuli_chr02	32203753	TT	AA	1946763825
SNP_P4_25819_32203755	NC_021161.1	Ca_kabuli_chr02	32203755	TT	AA	1946763827
SNP_P4_25820_32203757	NC_021161.1	Ca_kabuli_chr02	32203757	TT	AA	1946763829
SNP_P4_25821_32203822	NC_021161.1	Ca_kabuli_chr02	32203822	TT	GG	1946763832
SNP_P4_25823_32203866	NC_021161.1	Ca_kabuli_chr02	32203866	GG	CC	1946763834
SNP_P4_25825_32208817	NC_021161.1	Ca_kabuli_chr02	32208817	TT	CC	1946763836
SNP_P4_25826_32208822	NC_021161.1	Ca_kabuli_chr02	32208822	GG	AA	1946763838
SNP_P4_25827_32208937	NC_021161.1	Ca_kabuli_chr02	32208937	TT	CC	1946763840
SNP_P4_25828_32208958	NC_021161.1	Ca_kabuli_chr02	32208958	TT	AA	1946763842
SNP_P4_25829_32208965	NC_021161.1	Ca_kabuli_chr02	32208965	TT	CC	1946763844
SNP_P4_25830_32209005	NC_021161.1	Ca_kabuli_chr02	32209005	TT	AA	1946763846
SNP_P4_25831_32209035	NC_021161.1	Ca_kabuli_chr02	32209035	TT	AA	1946763848
SNP_P4_25833_32209145	NC_021161.1	Ca_kabuli_chr02	32209145	GG	TT	1946763850
SNP_P4_25834_32209158	NC_021161.1	Ca_kabuli_chr02	32209158	CC	TT	1946763852
SNP_P4_25835_32209171	NC_021161.1	Ca_kabuli_chr02	32209171	AA	CC	1946763854
SNP_P4_25836_32209179	NC_021161.1	Ca_kabuli_chr02	32209179	GG	AA	1946763856
SNP_P4_25837_32209201	NC_021161.1	Ca_kabuli_chr02	32209201	AA	CC	1946763858
SNP_P4_25838_32209208	NC_021161.1	Ca_kabuli_chr02	32209208	CC	TT	1946763860
SNP_P4_25839_32209291	NC_021161.1	Ca_kabuli_chr02	32209291	GG	CC	1946763862
SNP_P4_25840_32209319	NC_021161.1	Ca_kabuli_chr02	32209319	CC	AA	1946763864
SNP_P4_25842_32209368	NC_021161.1	Ca_kabuli_chr02	32209368	TT	CC	1946763866
SNP_P4_25843_32209427	NC_021161.1	Ca_kabuli_chr02	32209427	AA	CC	1946763868
SNP_P4_25844_32209429	NC_021161.1	Ca_kabuli_chr02	32209429	AA	TT	1946763870
SNP_P4_25845_32209435	NC_021161.1	Ca_kabuli_chr02	32209435	GG	AA	1946763872
SNP_P4_25846_32209468	NC_021161.1	Ca_kabuli_chr02	32209468	TT	AA	1946763874
SNP_P4_25847_32209479	NC_021161.1	Ca_kabuli_chr02	32209479	CC	TT	1946763876
SNP_P4_25848_32209606	NC_021161.1	Ca_kabuli_chr02	32209606	GG	AA	1946763878
SNP_P4_25849_32209621	NC_021161.1	Ca_kabuli_chr02	32209621	TT	CC	1946763880
SNP_P4_25850_32209631	NC_021161.1	Ca_kabuli_chr02	32209631	GG	TT	1946763882
SNP_P4_25851_32209648	NC_021161.1	Ca_kabuli_chr02	32209648	CC	GG	1946763885
SNP_P4_25852_32209663	NC_021161.1	Ca_kabuli_chr02	32209663	AA	CC	1946763887
SNP_P4_25854_32209729	NC_021161.1	Ca_kabuli_chr02	32209729	TT	AA	1946763889
SNP_P4_25855_32209742	NC_021161.1	Ca_kabuli_chr02	32209742	AA	CC	1946763891
SNP_P4_25856_32209766	NC_021161.1	Ca_kabuli_chr02	32209766	AA	GG	1946763893
SNP_P4_25857_32209793	NC_021161.1	Ca_kabuli_chr02	32209793	AA	CC	1946763895
SNP_P4_25858_32209845	NC_021161.1	Ca_kabuli_chr02	32209845	GG	AA	1946763897
SNP_P4_25859_32209871	NC_021161.1	Ca_kabuli_chr02	32209871	GG	CC	1946763899

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_25861_32209927	NC_021161.1	Ca_kabuli_chr02	32209927	CC	GG	1946763904
SNP_P4_25862_32209990	NC_021161.1	Ca_kabuli_chr02	32209990	CC	TT	1946763906
SNP_P4_25863_32210010	NC_021161.1	Ca_kabuli_chr02	32210010	AA	CC	1946763908
SNP_P4_25864_32210049	NC_021161.1	Ca_kabuli_chr02	32210049	AA	GG	1946763910
SNP_P4_25866_32210189	NC_021161.1	Ca_kabuli_chr02	32210189	AA	TT	1946763912
SNP_P4_25867_32210572	NC_021161.1	Ca_kabuli_chr02	32210572	TT	CC	1946763914
SNP_P4_25868_32210824	NC_021161.1	Ca_kabuli_chr02	32210824	AA	TT	1946763916
SNP_P4_25869_32211108	NC_021161.1	Ca_kabuli_chr02	32211108	GG	AA	1946763918
SNP_P4_25870_32211163	NC_021161.1	Ca_kabuli_chr02	32211163	GG	AA	1946763920
SNP_P4_25871_32211340	NC_021161.1	Ca_kabuli_chr02	32211340	TT	CC	1946763922
SNP_P4_25872_32211546	NC_021161.1	Ca_kabuli_chr02	32211546	CC	AA	1946763924
SNP_P4_25873_32211571	NC_021161.1	Ca_kabuli_chr02	32211571	AA	TT	1946763926
SNP_P4_25874_32211592	NC_021161.1	Ca_kabuli_chr02	32211592	GG	TT	1946763928
SNP_P4_25875_32211597	NC_021161.1	Ca_kabuli_chr02	32211597	AA	TT	1946763930
SNP_P4_25876_32211738	NC_021161.1	Ca_kabuli_chr02	32211738	AA	GG	1946763932
SNP_P4_25877_32211870	NC_021161.1	Ca_kabuli_chr02	32211870	AA	TT	1946763934
SNP_P4_25878_32211898	NC_021161.1	Ca_kabuli_chr02	32211898	TT	GG	1946763936
SNP_P4_25879_32212178	NC_021161.1	Ca_kabuli_chr02	32212178	CC	AA	1946763938
SNP_P4_25880_32212180	NC_021161.1	Ca_kabuli_chr02	32212180	TT	CC	1946763940
SNP_P4_25881_32212329	NC_021161.1	Ca_kabuli_chr02	32212329	CC	GG	1946763942
SNP_P4_25882_32212491	NC_021161.1	Ca_kabuli_chr02	32212491	CC	TT	1946763944
SNP_P4_25884_32213239	NC_021161.1	Ca_kabuli_chr02	32213239	GG	CC	1946763946
SNP_P4_25885_32213346	NC_021161.1	Ca_kabuli_chr02	32213346	CC	TT	1946763948
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SNP_P4_25888_32213420	NC_021161.1	Ca_kabuli_chr02	32213420	GG	AA	1946763954
SNP_P4_25890_32213929	NC_021161.1	Ca_kabuli_chr02	32213929	AA	CC	1946763956
SNP_P4_25891_32213967	NC_021161.1	Ca_kabuli_chr02	32213967	CC	TT	1946763958
SNP_P4_25892_32214942	NC_021161.1	Ca_kabuli_chr02	32214942	TT	CC	1946763960
SNP_P4_25893_32214969	NC_021161.1	Ca_kabuli_chr02	32214969	TT	GG	1946763962
SNP_P4_25894_32215224	NC_021161.1	Ca_kabuli_chr02	32215224	TT	CC	1946763964
SNP_P4_25895_32216465	NC_021161.1	Ca_kabuli_chr02	32216465	CC	TT	1946763966
SNP_P4_25896_32216917	NC_021161.1	Ca_kabuli_chr02	32216917	CC	GG	1946763968
SNP_P4_25897_32216955	NC_021161.1	Ca_kabuli_chr02	32216955	TT	GG	1946763970
SNP_P4_25898_32218143	NC_021161.1	Ca_kabuli_chr02	32218143	GG	AA	1946763972
SNP_P4_25900_32219075	NC_021161.1	Ca_kabuli_chr02	32219075	CC	TT	1946763974
SNP_P4_25901_32219417	NC_021161.1	Ca_kabuli_chr02	32219417	TT	CC	1946763976
SNP_P4_25903_32222927	NC_021161.1	Ca_kabuli_chr02	32222927	AA	GG	1946763978
SNP_P4_25904_32222940	NC_021161.1	Ca_kabuli_chr02	32222940	CC	GG	1946763980
SNP_P4_25905_32222942	NC_021161.1	Ca_kabuli_chr02	32222942	TT	CC	1946763982
SNP_P4_25907_32223245	NC_021161.1	Ca_kabuli_chr02	32223245	TT	CC	1946763984

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_25910_32233944	NC_021161.1	Ca_kabuli_chr02	32233944	GG	TT	1946763990
SNP_P4_25911_32234255	NC_021161.1	Ca_kabuli_chr02	32234255	TT	CC	1946763992
SNP_P4_25912_32234629	NC_021161.1	Ca_kabuli_chr02	32234629	TT	CC	1946763994
SNP_P4_25913_32235022	NC_021161.1	Ca_kabuli_chr02	32235022	GG	AA	1946763996
SNP_P4_25914_32235666	NC_021161.1	Ca_kabuli_chr02	32235666	CC	TT	1946763998
SNP_P4_25915_32235683	NC_021161.1	Ca_kabuli_chr02	32235683	GG	TT	1946764000
SNP_P4_25916_32235973	NC_021161.1	Ca_kabuli_chr02	32235973	TT	CC	1946764002
SNP_P4_25917_32235978	NC_021161.1	Ca_kabuli_chr02	32235978	TT	AA	1946764004
SNP_P4_25918_32235987	NC_021161.1	Ca_kabuli_chr02	32235987	AA	CC	1946764006
SNP_P4_25919_32236286	NC_021161.1	Ca_kabuli_chr02	32236286	TT	GG	1946764008
SNP_P4_25920_32236943	NC_021161.1	Ca_kabuli_chr02	32236943	AA	TT	1946764010
SNP_P4_25921_32236949	NC_021161.1	Ca_kabuli_chr02	32236949	CC	TT	1946764012
SNP_P4_25922_32237948	NC_021161.1	Ca_kabuli_chr02	32237948	GG	AA	1946764014
SNP_P4_25923_32240237	NC_021161.1	Ca_kabuli_chr02	32240237	TT	AA	1946764016
SNP_P4_25924_32240289	NC_021161.1	Ca_kabuli_chr02	32240289	CC	TT	1946764018
SNP_P4_25926_32241214	NC_021161.1	Ca_kabuli_chr02	32241214	AA	TT	1946764020
SNP_P4_25927_32241225	NC_021161.1	Ca_kabuli_chr02	32241225	GG	AA	1946764022
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SNP_P4_25930_32241535	NC_021161.1	Ca_kabuli_chr02	32241535	AA	TT	1946764027
SNP_P4_25931_32242625	NC_021161.1	Ca_kabuli_chr02	32242625	GG	CC	1946764029
SNP_P4_25933_32243147	NC_021161.1	Ca_kabuli_chr02	32243147	CC	TT	1946764031
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SNP_P4_25935_32245422	NC_021161.1	Ca_kabuli_chr02	32245422	AA	GG	1946764034
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SNP_P4_25940_32245966	NC_021161.1	Ca_kabuli_chr02	32245966	GG	AA	1946764041
SNP_P4_25941_32245988	NC_021161.1	Ca_kabuli_chr02	32245988	CC	TT	1946764043
SNP_P4_25942_32246073	NC_021161.1	Ca_kabuli_chr02	32246073	GG	AA	1946764045
SNP_P4_25943_32246083	NC_021161.1	Ca_kabuli_chr02	32246083	CC	TT	1946764047
SNP_P4_25944_32246102	NC_021161.1	Ca_kabuli_chr02	32246102	GG	TT	1946764049
SNP_P4_25945_32246201	NC_021161.1	Ca_kabuli_chr02	32246201	AA	GG	1946764051
SNP_P4_25946_32246274	NC_021161.1	Ca_kabuli_chr02	32246274	CC	TT	1946764052
SNP_P4_25947_32246344	NC_021161.1	Ca_kabuli_chr02	32246344	AA	GG	1946764054
SNP_P4_25948_32246372	NC_021161.1	Ca_kabuli_chr02	32246372	TT	CC	1946764056
SNP_P4_25949_32246420	NC_021161.1	Ca_kabuli_chr02	32246420	TT	GG	1946764058
SNP_P4_25950_32246427	NC_021161.1	Ca_kabuli_chr02	32246427	TT	CC	1946764060
SNP_P4_25951_32246457	NC_021161.1	Ca_kabuli_chr02	32246457	TT	GG	1946764062
SNP_P4_25952_32246536	NC_021161.1	Ca_kabuli_chr02	32246536	AA	TT	1946764064
SNP_P4_25954_32247093	NC_021161.1	Ca_kabuli_chr02	32247093	AA	GG	1946764066
SNP_P4_25955_32247200	NC_021161.1	Ca_kabuli_chr02	32247200	TT	CC	1946764068

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_25958_32248270	NC_021161.1	Ca_kabuli_chr02	32248270	TT	AA	1946764074
SNP_P4_25959_32248613	NC_021161.1	Ca_kabuli_chr02	32248613	AA	CC	1946764076
SNP_P4_25960_32248630	NC_021161.1	Ca_kabuli_chr02	32248630	GG	AA	1946764078
SNP_P4_25961_32248631	NC_021161.1	Ca_kabuli_chr02	32248631	AA	CC	1946764080
SNP_P4_25962_32248689	NC_021161.1	Ca_kabuli_chr02	32248689	GG	AA	1946764082
SNP_P4_25963_32248714	NC_021161.1	Ca_kabuli_chr02	32248714	GG	AA	1946764084
SNP_P4_25964_32249964	NC_021161.1	Ca_kabuli_chr02	32249964	CC	TT	1946764086
SNP_P4_25965_32250256	NC_021161.1	Ca_kabuli_chr02	32250256	CC	TT	1946764088
SNP_P4_25966_32250272	NC_021161.1	Ca_kabuli_chr02	32250272	TT	GG	1946764090
SNP_P4_25967_32250283	NC_021161.1	Ca_kabuli_chr02	32250283	GG	CC	1946764092
SNP_P4_25968_32252330	NC_021161.1	Ca_kabuli_chr02	32252330	TT	GG	1946764094
SNP_P4_25969_32252332	NC_021161.1	Ca_kabuli_chr02	32252332	AA	GG	1946764096
SNP_P4_25970_32252334	NC_021161.1	Ca_kabuli_chr02	32252334	CC	AA	1946764098
SNP_P4_25971_32252624	NC_021161.1	Ca_kabuli_chr02	32252624	AA	TT	1946764100
SNP_P4_25972_32252653	NC_021161.1	Ca_kabuli_chr02	32252653	AA	GG	1946764102
SNP_P4_25973_32253378	NC_021161.1	Ca_kabuli_chr02	32253378	GG	AA	1946764104
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SNP_P4_25976_32253636	NC_021161.1	Ca_kabuli_chr02	32253636	TT	GG	1946764108
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SNP_P4_25978_32253867	NC_021161.1	Ca_kabuli_chr02	32253867	AA	GG	1946764112
SNP_P4_25979_32257680	NC_021161.1	Ca_kabuli_chr02	32257680	AA	GG	1946764114
SNP_P4_25980_32257832	NC_021161.1	Ca_kabuli_chr02	32257832	AA	TT	1946764116
SNP_P4_25981_32258021	NC_021161.1	Ca_kabuli_chr02	32258021	TT	GG	1946764118
SNP_P4_25982_32258027	NC_021161.1	Ca_kabuli_chr02	32258027	AA	GG	1946764120
SNP_P4_25983_32259808	NC_021161.1	Ca_kabuli_chr02	32259808	AA	CC	1946764122
SNP_P4_25986_32261573	NC_021161.1	Ca_kabuli_chr02	32261573	CC	TT	1946764124
SNP_P4_25987_32262821	NC_021161.1	Ca_kabuli_chr02	32262821	CC	GG	1946764126
SNP_P4_25989_32263667	NC_021161.1	Ca_kabuli_chr02	32263667	AA	TT	1946764128
SNP_P4_25991_32264733	NC_021161.1	Ca_kabuli_chr02	32264733	TT	GG	1946764130
SNP_P4_25992_32264779	NC_021161.1	Ca_kabuli_chr02	32264779	GG	AA	1946764132
SNP_P4_25993_32264819	NC_021161.1	Ca_kabuli_chr02	32264819	AA	GG	1946764134
SNP_P4_25994_32266090	NC_021161.1	Ca_kabuli_chr02	32266090	CC	TT	1946764136
SNP_P4_25995_32266102	NC_021161.1	Ca_kabuli_chr02	32266102	AA	GG	1946764137
SNP_P4_25996_32266126	NC_021161.1	Ca_kabuli_chr02	32266126	CC	AA	1946764139
SNP_P4_25997_32266384	NC_021161.1	Ca_kabuli_chr02	32266384	GG	AA	1946764141
SNP_P4_25998_32266403	NC_021161.1	Ca_kabuli_chr02	32266403	TT	CC	1946764143
SNP_P4_25999_32266429	NC_021161.1	Ca_kabuli_chr02	32266429	GG	AA	1946764145
SNP_P4_26000_32268480	NC_021161.1	Ca_kabuli_chr02	32268480	CC	AA	1946764147
SNP_P4_26001_32269558	NC_021161.1	Ca_kabuli_chr02	32269558	GG	TT	1946764149
SNP_P4_26002_32269913	NC_021161.1	Ca_kabuli_chr02	32269913	AA	GG	1946764151

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_26003_32269975	NC_021161.1	Ca_kabuli_chr02	32269975	CC	TT	1946764153
SNP_P4_26004_32269981	NC_021161.1	Ca_kabuli_chr02	32269981	CC	GG	1946764155
SNP_P4_26005_32270077	NC_021161.1	Ca_kabuli_chr02	32270077	TT	CC	1946764157
SNP_P4_26006_32270156	NC_021161.1	Ca_kabuli_chr02	32270156	GG	TT	1946764159
SNP_P4_26007_32270160	NC_021161.1	Ca_kabuli_chr02	32270160	CC	AA	1946764161
SNP_P4_26008_32271334	NC_021161.1	Ca_kabuli_chr02	32271334	AA	TT	1946764163
SNP_P4_26009_32271622	NC_021161.1	Ca_kabuli_chr02	32271622	AA	TT	1946764165
SNP_P4_26010_32271647	NC_021161.1	Ca_kabuli_chr02	32271647	AA	CC	1946764167
SNP_P4_26011_32272128	NC_021161.1	Ca_kabuli_chr02	32272128	GG	AA	1946764169
SNP_P4_26012_32272131	NC_021161.1	Ca_kabuli_chr02	32272131	AA	TT	1946764171
SNP_P4_26013_32272771	NC_021161.1	Ca_kabuli_chr02	32272771	CC	AA	1946764173
SNP_P4_26014_32272784	NC_021161.1	Ca_kabuli_chr02	32272784	CC	AA	1946764175
SNP_P4_26015_32274226	NC_021161.1	Ca_kabuli_chr02	32274226	AA	TT	1946764177
SNP_P4_26016_32276904	NC_021161.1	Ca_kabuli_chr02	32276904	AA	GG	1946764179
SNP_P4_26017_32277934	NC_021161.1	Ca_kabuli_chr02	32277934	AA	TT	1946764181
SNP_P4_26018_32277992	NC_021161.1	Ca_kabuli_chr02	32277992	AA	TT	1946764183
SNP_P4_26019_32278320	NC_021161.1	Ca_kabuli_chr02	32278320	TT	GG	1946764185
SNP_P4_26020_32279326	NC_021161.1	Ca_kabuli_chr02	32279326	CC	TT	1946764187
SNP_P4_26021_32288034	NC_021161.1	Ca_kabuli_chr02	32288034	TT	CC	1946764189
SNP_P4_26022_32289293	NC_021161.1	Ca_kabuli_chr02	32289293	TT	AA	1946764191
SNP_P4_26023_32289307	NC_021161.1	Ca_kabuli_chr02	32289307	CC	AA	1946764193
SNP_P4_26025_32289363	NC_021161.1	Ca_kabuli_chr02	32289363	AA	GG	1946764195
SNP_P4_26026_32289374	NC_021161.1	Ca_kabuli_chr02	32289374	GG	AA	1946764197
SNP_P4_26028_32290568	NC_021161.1	Ca_kabuli_chr02	32290568	CC	TT	1946764198
SNP_P4_26029_32290611	NC_021161.1	Ca_kabuli_chr02	32290611	CC	TT	1946764200
SNP_P4_26030_32290704	NC_021161.1	Ca_kabuli_chr02	32290704	AA	GG	1946764202
SNP_P4_26031_32290808	NC_021161.1	Ca_kabuli_chr02	32290808	AA	TT	1946764204
SNP_P4_26033_32292025	NC_021161.1	Ca_kabuli_chr02	32292025	GG	TT	1946764206
SNP_P4_26034_32292210	NC_021161.1	Ca_kabuli_chr02	32292210	AA	GG	1946764208
SNP_P4_26035_32292240	NC_021161.1	Ca_kabuli_chr02	32292240	CC	TT	1946764210
SNP_P4_26036_32292248	NC_021161.1	Ca_kabuli_chr02	32292248	TT	GG	1946764212
SNP_P4_26037_32292420	NC_021161.1	Ca_kabuli_chr02	32292420	GG	AA	1946764214
SNP_P4_26038_32292693	NC_021161.1	Ca_kabuli_chr02	32292693	TT	CC	1946764216
SNP_P4_26039_32293115	NC_021161.1	Ca_kabuli_chr02	32293115	CC	AA	1946764218
SNP_P4_26040_32293117	NC_021161.1	Ca_kabuli_chr02	32293117	GG	AA	1946764220
SNP_P4_26041_32293119	NC_021161.1	Ca_kabuli_chr02	32293119	CC	TT	1946764222
SNP_P4_26042_32293227	NC_021161.1	Ca_kabuli_chr02	32293227	AA	TT	1946764223
SNP_P4_26043_32293423	NC_021161.1	Ca_kabuli_chr02	32293423	TT	CC	1946764225
SNP_P4_26046_32293845	NC_021161.1	Ca_kabuli_chr02	32293845	TT	AA	1946764227
SNP_P4_26047_32294394	NC_021161.1	Ca_kabuli_chr02	32294394	AA	GG	1946764229
SNP_P4_26049_32295158	NC_021161.1	Ca_kabuli_chr02	32295158	AA	TT	1946764231
SNP_P4_26050_32295269	NC_021161.1	Ca_kabuli_chr02	32295269	AA	GG	1946764233

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_26052_32295319	NC_021161.1	Ca_kabuli_chr02	32295319	GG	CC	1946764237
SNP_P4_26055_32327155	NC_021161.1	Ca_kabuli_chr02	32327155	TT	CC	1946764239
SNP_P4_26056_32327480	NC_021161.1	Ca_kabuli_chr02	32327480	CC	TT	1946764241
SNP_P4_26057_32327637	NC_021161.1	Ca_kabuli_chr02	32327637	AA	CC	1946764243
SNP_P4_26060_32328002	NC_021161.1	Ca_kabuli_chr02	32328002	AA	GG	1946764245
SNP_P4_26061_32328003	NC_021161.1	Ca_kabuli_chr02	32328003	CC	TT	1946764247
SNP_P4_26062_32328097	NC_021161.1	Ca_kabuli_chr02	32328097	AA	GG	1946764249
SNP_P4_26063_32328115	NC_021161.1	Ca_kabuli_chr02	32328115	TT	CC	1946764251
SNP_P4_26064_32328931	NC_021161.1	Ca_kabuli_chr02	32328931	CC	AA	1946764253
SNP_P4_26065_32328935	NC_021161.1	Ca_kabuli_chr02	32328935	GG	AA	1946764255
SNP_P4_26066_32328939	NC_021161.1	Ca_kabuli_chr02	32328939	CC	TT	1946764257
SNP_P4_26067_32332177	NC_021161.1	Ca_kabuli_chr02	32332177	TT	AA	1946764259
SNP_P4_26069_32339308	NC_021161.1	Ca_kabuli_chr02	32339308	TT	GG	1946764261
SNP_P4_26070_32339336	NC_021161.1	Ca_kabuli_chr02	32339336	AA	GG	1946764263
SNP_P4_26071_32339337	NC_021161.1	Ca_kabuli_chr02	32339337	TT	CC	1946764265
SNP_P4_26072_32339350	NC_021161.1	Ca_kabuli_chr02	32339350	TT	CC	1946764267
SNP_P4_26073_32339365	NC_021161.1	Ca_kabuli_chr02	32339365	GG	TT	1946764269
SNP_P4_26074_32339374	NC_021161.1	Ca_kabuli_chr02	32339374	CC	TT	1946764271
SNP_P4_26075_32339491	NC_021161.1	Ca_kabuli_chr02	32339491	GG	AA	1946764273
SNP_P4_26076_32339538	NC_021161.1	Ca_kabuli_chr02	32339538	CC	TT	1946764275
SNP_P4_26077_32339576	NC_021161.1	Ca_kabuli_chr02	32339576	TT	CC	1946764277
SNP_P4_26078_32340405	NC_021161.1	Ca_kabuli_chr02	32340405	TT	CC	1946764278
SNP_P4_26079_32340652	NC_021161.1	Ca_kabuli_chr02	32340652	CC	TT	1946764280
SNP_P4_26080_32340705	NC_021161.1	Ca_kabuli_chr02	32340705	CC	TT	1946764282
SNP_P4_26081_32341152	NC_021161.1	Ca_kabuli_chr02	32341152	GG	AA	1946764284
SNP_P4_26082_32341178	NC_021161.1	Ca_kabuli_chr02	32341178	AA	GG	1946764287
SNP_P4_26083_32341356	NC_021161.1	Ca_kabuli_chr02	32341356	AA	TT	1946764289
SNP_P4_26084_32342258	NC_021161.1	Ca_kabuli_chr02	32342258	AA	TT	1946764291
SNP_P4_26085_32343541	NC_021161.1	Ca_kabuli_chr02	32343541	CC	TT	1946764293
SNP_P4_26086_32344766	NC_021161.1	Ca_kabuli_chr02	32344766	GG	AA	1946764295
SNP_P4_26087_32346377	NC_021161.1	Ca_kabuli_chr02	32346377	AA	TT	1946764297
SNP_P4_26089_32347421	NC_021161.1	Ca_kabuli_chr02	32347421	TT	CC	1946764299
SNP_P4_26090_32347424	NC_021161.1	Ca_kabuli_chr02	32347424	GG	AA	1946764301
SNP_P4_26091_32347448	NC_021161.1	Ca_kabuli_chr02	32347448	TT	GG	1946764303
SNP_P4_26093_32347786	NC_021161.1	Ca_kabuli_chr02	32347786	CC	GG	1946764305
SNP_P4_26094_32348352	NC_021161.1	Ca_kabuli_chr02	32348352	TT	AA	1946764307
SNP_P4_26095_32348397	NC_021161.1	Ca_kabuli_chr02	32348397	AA	CC	1946764309
SNP_P4_26096_32348539	NC_021161.1	Ca_kabuli_chr02	32348539	AA	GG	1946764311
SNP_P4_26097_32348870	NC_021161.1	Ca_kabuli_chr02	32348870	CC	TT	1946764313
SNP_P4_26099_32348933	NC_021161.1	Ca_kabuli_chr02	32348933	GG	AA	1946764315
SNP_P4_26100_32350833	NC_021161.1	Ca_kabuli_chr02	32350833	GG	AA	1946764317

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_26103_32351252	NC_021161.1	Ca_kabuli_chr02	32351252	AA	TT	1946764323
SNP_P4_26104_32351634	NC_021161.1	Ca_kabuli_chr02	32351634	GG	AA	1946764325
SNP_P4_26106_32353325	NC_021161.1	Ca_kabuli_chr02	32353325	TT	CC	1946764327
SNP_P4_26107_32353341	NC_021161.1	Ca_kabuli_chr02	32353341	GG	TT	1946764329
SNP_P4_26108_32353631	NC_021161.1	Ca_kabuli_chr02	32353631	TT	GG	1946764331
SNP_P4_26109_32353661	NC_021161.1	Ca_kabuli_chr02	32353661	AA	CC	1946764333
SNP_P4_26110_32353686	NC_021161.1	Ca_kabuli_chr02	32353686	CC	TT	1946764335
SNP_P4_26111_32353719	NC_021161.1	Ca_kabuli_chr02	32353719	AA	GG	1946764337
SNP_P4_26112_32353760	NC_021161.1	Ca_kabuli_chr02	32353760	AA	TT	1946764339
SNP_P4_26113_32353935	NC_021161.1	Ca_kabuli_chr02	32353935	AA	GG	1946764341
SNP_P4_26115_32355980	NC_021161.1	Ca_kabuli_chr02	32355980	TT	GG	1946764343
SNP_P4_26117_32356334	NC_021161.1	Ca_kabuli_chr02	32356334	CC	TT	1946764345
SNP_P4_26119_32356684	NC_021161.1	Ca_kabuli_chr02	32356684	GG	CC	1946764347
SNP_P4_26120_32356694	NC_021161.1	Ca_kabuli_chr02	32356694	AA	GG	1946764349
SNP_P4_26121_32356751	NC_021161.1	Ca_kabuli_chr02	32356751	TT	CC	1946764351
SNP_P4_26123_32356798	NC_021161.1	Ca_kabuli_chr02	32356798	AA	GG	1946764353
SNP_P4_26124_32356979	NC_021161.1	Ca_kabuli_chr02	32356979	CC	TT	1946764355
SNP_P4_26125_32357239	NC_021161.1	Ca_kabuli_chr02	32357239	TT	CC	1946764357
SNP_P4_26126_32357363	NC_021161.1	Ca_kabuli_chr02	32357363	CC	TT	1946764359
SNP_P4_26127_32357963	NC_021161.1	Ca_kabuli_chr02	32357963	GG	CC	1946764361
SNP_P4_26128_32357965	NC_021161.1	Ca_kabuli_chr02	32357965	CC	TT	1946764363
SNP_P4_26129_32358649	NC_021161.1	Ca_kabuli_chr02	32358649	GG	AA	1946764365
SNP_P4_26130_32358778	NC_021161.1	Ca_kabuli_chr02	32358778	TT	CC	1946764367
SNP_P4_26133_32360067	NC_021161.1	Ca_kabuli_chr02	32360067	AA	CC	1946764369
SNP_P4_26135_32361335	NC_021161.1	Ca_kabuli_chr02	32361335	AA	GG	1946764371
SNP_P4_26136_32361358	NC_021161.1	Ca_kabuli_chr02	32361358	GG	AA	1946764373
SNP_P4_26138_32361900	NC_021161.1	Ca_kabuli_chr02	32361900	TT	CC	1946764375
SNP_P4_26139_32361909	NC_021161.1	Ca_kabuli_chr02	32361909	GG	AA	1946764377
SNP_P4_26140_32361948	NC_021161.1	Ca_kabuli_chr02	32361948	TT	AA	1946764379
SNP_P4_26141_32363275	NC_021161.1	Ca_kabuli_chr02	32363275	CC	AA	1946764381
SNP_P4_26142_32363618	NC_021161.1	Ca_kabuli_chr02	32363618	GG	AA	1946764383
SNP_P4_26143_32363642	NC_021161.1	Ca_kabuli_chr02	32363642	CC	TT	1946764385
SNP_P4_26144_32363896	NC_021161.1	Ca_kabuli_chr02	32363896	CC	TT	1946764387
SNP_P4_26146_32364283	NC_021161.1	Ca_kabuli_chr02	32364283	GG	TT	1946764389
SNP_P4_26147_32365412	NC_021161.1	Ca_kabuli_chr02	32365412	CC	TT	1946764391
SNP_P4_26149_32365548	NC_021161.1	Ca_kabuli_chr02	32365548	GG	AA	1946764394
SNP_P4_26150_32365625	NC_021161.1	Ca_kabuli_chr02	32365625	GG	AA	1946764396
SNP_P4_26151_32365913	NC_021161.1	Ca_kabuli_chr02	32365913	TT	AA	1946764398
SNP_P4_26152_32365927	NC_021161.1	Ca_kabuli_chr02	32365927	TT	AA	1946764400
SNP_P4_26153_32365932	NC_021161.1	Ca_kabuli_chr02	32365932	GG	AA	1946764402

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_26155_32366214	NC_021161.1	Ca_kabuli_chr02	32366214	CC	TT	1946764406
SNP_P4_26157_32366489	NC_021161.1	Ca_kabuli_chr02	32366489	CC	TT	1946764408
SNP_P4_26158_32366844	NC_021161.1	Ca_kabuli_chr02	32366844	GG	TT	1946764409
SNP_P4_26159_32367323	NC_021161.1	Ca_kabuli_chr02	32367323	CC	AA	1946764410
SNP_P4_26160_32367487	NC_021161.1	Ca_kabuli_chr02	32367487	CC	AA	1946764411
SNP_P4_26161_32367709	NC_021161.1	Ca_kabuli_chr02	32367709	AA	GG	1946764412
SNP_P4_26162_32368064	NC_021161.1	Ca_kabuli_chr02	32368064	GG	AA	1946764414
SNP_P4_26163_32368400	NC_021161.1	Ca_kabuli_chr02	32368400	TT	CC	1946764416
SNP_P4_26164_32368420	NC_021161.1	Ca_kabuli_chr02	32368420	GG	TT	1946764418
SNP_P4_26166_32369529	NC_021161.1	Ca_kabuli_chr02	32369529	CC	TT	1946764420
SNP_P4_26167_32369563	NC_021161.1	Ca_kabuli_chr02	32369563	AA	GG	1946764422
SNP_P4_26168_32369837	NC_021161.1	Ca_kabuli_chr02	32369837	CC	TT	1946764424
SNP_P4_26169_32369855	NC_021161.1	Ca_kabuli_chr02	32369855	CC	TT	1946764426
SNP_P4_26170_32370005	NC_021161.1	Ca_kabuli_chr02	32370005	AA	TT	1946764428
SNP_P4_26171_32370088	NC_021161.1	Ca_kabuli_chr02	32370088	AA	CC	1946764430
SNP_P4_26172_32370111	NC_021161.1	Ca_kabuli_chr02	32370111	GG	AA	1946764432
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SNP_P4_26175_32370466	NC_021161.1	Ca_kabuli_chr02	32370466	AA	GG	1946764436
SNP_P4_26176_32371538	NC_021161.1	Ca_kabuli_chr02	32371538	AA	TT	1946764438
SNP_P4_26177_32371539	NC_021161.1	Ca_kabuli_chr02	32371539	TT	CC	1946764439
SNP_P4_26178_32371683	NC_021161.1	Ca_kabuli_chr02	32371683	GG	AA	1946764441
SNP_P4_26179_32371766	NC_021161.1	Ca_kabuli_chr02	32371766	TT	CC	1946764443
SNP_P4_26180_32372431	NC_021161.1	Ca_kabuli_chr02	32372431	AA	GG	1946764445
SNP_P4_26181_32373277	NC_021161.1	Ca_kabuli_chr02	32373277	AA	CC	1946764447
SNP_P4_26182_32375458	NC_021161.1	Ca_kabuli_chr02	32375458	GG	AA	1946764449
SNP_P4_26183_32378273	NC_021161.1	Ca_kabuli_chr02	32378273	AA	GG	1946764451
SNP_P4_26185_32378503	NC_021161.1	Ca_kabuli_chr02	32378503	AA	GG	1946764453
SNP_P4_26188_32379178	NC_021161.1	Ca_kabuli_chr02	32379178	AA	TT	1946764455
SNP_P4_26189_32379357	NC_021161.1	Ca_kabuli_chr02	32379357	GG	TT	1946764457
SNP_P4_26190_32379450	NC_021161.1	Ca_kabuli_chr02	32379450	GG	AA	1946764459
SNP_P4_26191_32379506	NC_021161.1	Ca_kabuli_chr02	32379506	GG	TT	1946764461
SNP_P4_26192_32379507	NC_021161.1	Ca_kabuli_chr02	32379507	TT	GG	1946764463
SNP_P4_26193_32379544	NC_021161.1	Ca_kabuli_chr02	32379544	GG	AA	1946764465
SNP_P4_26194_32379545	NC_021161.1	Ca_kabuli_chr02	32379545	GG	AA	1946764468
SNP_P4_26196_32379636	NC_021161.1	Ca_kabuli_chr02	32379636	AA	GG	1946764470
SNP_P4_26197_32379724	NC_021161.1	Ca_kabuli_chr02	32379724	GG	AA	1946764472
SNP_P4_26199_32379854	NC_021161.1	Ca_kabuli_chr02	32379854	AA	GG	1946764474
SNP_P4_26200_32380467	NC_021161.1	Ca_kabuli_chr02	32380467	CC	TT	1946764476
SNP_P4_26201_32390348	NC_021161.1	Ca_kabuli_chr02	32390348	CC	TT	1946764478
SNP_P4_26202_32390392	NC_021161.1	Ca_kabuli_chr02	32390392	GG	AA	1946764480
SNP_P4_26203_32390507	NC_021161.1	Ca_kabuli_chr02	32390507	GG	TT	1946764482

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_26205_32392391	NC_021161.1	Ca_kabuli_chr02	32392391	GG	AA	1946764486
SNP_P4_26206_32392520	NC_021161.1	Ca_kabuli_chr02	32392520	CC	AA	1946764488
SNP_P4_26208_32392558	NC_021161.1	Ca_kabuli_chr02	32392558	AA	TT	1946764490
SNP_P4_26209_32392593	NC_021161.1	Ca_kabuli_chr02	32392593	GG	CC	1946764492
SNP_P4_26210_32392633	NC_021161.1	Ca_kabuli_chr02	32392633	GG	CC	1946764494
SNP_P4_26211_32392640	NC_021161.1	Ca_kabuli_chr02	32392640	GG	CC	1946764496
SNP_P4_26212_32392654	NC_021161.1	Ca_kabuli_chr02	32392654	CC	TT	1946764498
SNP_P4_26213_32392684	NC_021161.1	Ca_kabuli_chr02	32392684	AA	TT	1946764500
SNP_P4_26215_32392696	NC_021161.1	Ca_kabuli_chr02	32392696	GG	CC	1946764502
SNP_P4_26216_32392713	NC_021161.1	Ca_kabuli_chr02	32392713	TT	AA	1946764504
SNP_P4_26217_32392749	NC_021161.1	Ca_kabuli_chr02	32392749	CC	TT	1946764506
SNP_P4_26218_32392758	NC_021161.1	Ca_kabuli_chr02	32392758	GG	AA	1946764508
SNP_P4_26219_32392781	NC_021161.1	Ca_kabuli_chr02	32392781	GG	AA	1946764510
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SNP_P4_26221_32392801	NC_021161.1	Ca_kabuli_chr02	32392801	TT	CC	1946764514
SNP_P4_26222_32392809	NC_021161.1	Ca_kabuli_chr02	32392809	AA	TT	1946764516
SNP_P4_26223_32392830	NC_021161.1	Ca_kabuli_chr02	32392830	GG	AA	1946764518
SNP_P4_26224_32392841	NC_021161.1	Ca_kabuli_chr02	32392841	TT	CC	1946764520
SNP_P4_26225_32392846	NC_021161.1	Ca_kabuli_chr02	32392846	TT	CC	1946764522
SNP_P4_26226_32392868	NC_021161.1	Ca_kabuli_chr02	32392868	CC	TT	1946764524
SNP_P4_26227_32392871	NC_021161.1	Ca_kabuli_chr02	32392871	TT	GG	1946764526
SNP_P4_26228_32392893	NC_021161.1	Ca_kabuli_chr02	32392893	CC	AA	1946764528
SNP_P4_26229_32392943	NC_021161.1	Ca_kabuli_chr02	32392943	AA	GG	1946764530
SNP_P4_26230_32392945	NC_021161.1	Ca_kabuli_chr02	32392945	TT	CC	1946764532
SNP_P4_26231_32392948	NC_021161.1	Ca_kabuli_chr02	32392948	TT	GG	1946764534
SNP_P4_26232_32392986	NC_021161.1	Ca_kabuli_chr02	32392986	CC	TT	1946764536
SNP_P4_26233_32393014	NC_021161.1	Ca_kabuli_chr02	32393014	CC	TT	1946764538
SNP_P4_26234_32393015	NC_021161.1	Ca_kabuli_chr02	32393015	GG	TT	1946764540
SNP_P4_26235_32393020	NC_021161.1	Ca_kabuli_chr02	32393020	GG	AA	1946764541
SNP_P4_26236_32393035	NC_021161.1	Ca_kabuli_chr02	32393035	GG	AA	1946764543
SNP_P4_26239_32393135	NC_021161.1	Ca_kabuli_chr02	32393135	AA	CC	1946764545
SNP_P4_26241_32393289	NC_021161.1	Ca_kabuli_chr02	32393289	GG	AA	1946764547
SNP_P4_26242_32393364	NC_021161.1	Ca_kabuli_chr02	32393364	GG	TT	1946764549
SNP_P4_26243_32393429	NC_021161.1	Ca_kabuli_chr02	32393429	GG	AA	1946764551
SNP_P4_26245_32393490	NC_021161.1	Ca_kabuli_chr02	32393490	TT	CC	1946764553
SNP_P4_26246_32393509	NC_021161.1	Ca_kabuli_chr02	32393509	GG	AA	1946764555
SNP_P4_26247_32393535	NC_021161.1	Ca_kabuli_chr02	32393535	TT	AA	1946764557
SNP_P4_26248_32393539	NC_021161.1	Ca_kabuli_chr02	32393539	AA	GG	1946764559
SNP_P4_26249_32393574	NC_021161.1	Ca_kabuli_chr02	32393574	GG	TT	1946764561
SNP_P4_26250_32393596	NC_021161.1	Ca_kabuli_chr02	32393596	GG	AA	1946764563
SNP_P4_26251_32393606	NC_021161.1	Ca_kabuli_chr02	32393606	AA	GG	1946764565

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_26255_32393652	NC_021161.1	Ca_kabuli_chr02	32393652	AA	TT	1946764568
SNP_P4_26256_32394531	NC_021161.1	Ca_kabuli_chr02	32394531	CC	TT	1946764570
SNP_P4_26257_32394550	NC_021161.1	Ca_kabuli_chr02	32394550	TT	CC	1946764572
SNP_P4_26258_32394614	NC_021161.1	Ca_kabuli_chr02	32394614	AA	GG	1946764574
SNP_P4_26260_32395609	NC_021161.1	Ca_kabuli_chr02	32395609	AA	TT	1946764576
SNP_P4_26262_32398708	NC_021161.1	Ca_kabuli_chr02	32398708	TT	AA	1946764578
SNP_P4_26264_32399633	NC_021161.1	Ca_kabuli_chr02	32399633	CC	TT	1946764580
SNP_P4_26265_32399654	NC_021161.1	Ca_kabuli_chr02	32399654	AA	GG	1946764582
SNP_P4_26266_32399964	NC_021161.1	Ca_kabuli_chr02	32399964	AA	TT	1946764584
SNP_P4_26267_32399978	NC_021161.1	Ca_kabuli_chr02	32399978	AA	TT	1946764586
SNP_P4_26268_32401841	NC_021161.1	Ca_kabuli_chr02	32401841	TT	CC	1946764588
SNP_P4_26269_32401990	NC_021161.1	Ca_kabuli_chr02	32401990	TT	GG	1946764590
SNP_P4_26270_32402054	NC_021161.1	Ca_kabuli_chr02	32402054	TT	GG	1946764591
SNP_P4_26271_32405219	NC_021161.1	Ca_kabuli_chr02	32405219	CC	TT	1946764593
SNP_P4_26272_32405391	NC_021161.1	Ca_kabuli_chr02	32405391	GG	AA	1946764595
SNP_P4_26273_32405978	NC_021161.1	Ca_kabuli_chr02	32405978	CC	TT	1946764597
SNP_P4_26274_32406351	NC_021161.1	Ca_kabuli_chr02	32406351	CC	TT	1946764599
SNP_P4_26275_32406512	NC_021161.1	Ca_kabuli_chr02	32406512	TT	CC	1946764601
SNP_P4_26276_32406526	NC_021161.1	Ca_kabuli_chr02	32406526	TT	GG	1946764603
SNP_P4_26277_32406527	NC_021161.1	Ca_kabuli_chr02	32406527	GG	AA	1946764605
SNP_P4_26279_32408474	NC_021161.1	Ca_kabuli_chr02	32408474	GG	AA	1946764607
SNP_P4_26280_32409126	NC_021161.1	Ca_kabuli_chr02	32409126	CC	TT	1946764609
SNP_P4_26281_32409765	NC_021161.1	Ca_kabuli_chr02	32409765	GG	CC	1946764611
SNP_P4_26283_32409967	NC_021161.1	Ca_kabuli_chr02	32409967	CC	AA	1946764613
SNP_P4_26284_32410660	NC_021161.1	Ca_kabuli_chr02	32410660	AA	GG	1946764615
SNP_P4_26285_32410684	NC_021161.1	Ca_kabuli_chr02	32410684	TT	CC	1946764616
SNP_P4_26286_32410696	NC_021161.1	Ca_kabuli_chr02	32410696	AA	GG	1946764618
SNP_P4_26287_32410737	NC_021161.1	Ca_kabuli_chr02	32410737	AA	GG	1946764620
SNP_P4_26288_32412182	NC_021161.1	Ca_kabuli_chr02	32412182	GG	AA	1946764622
SNP_P4_26290_32412897	NC_021161.1	Ca_kabuli_chr02	32412897	GG	AA	1946764624
SNP_P4_26291_32413219	NC_021161.1	Ca_kabuli_chr02	32413219	TT	AA	1946764626
SNP_P4_26292_32413233	NC_021161.1	Ca_kabuli_chr02	32413233	TT	GG	1946764628
SNP_P4_26293_32413999	NC_021161.1	Ca_kabuli_chr02	32413999	AA	CC	1946764630
SNP_P4_26294_32415118	NC_021161.1	Ca_kabuli_chr02	32415118	GG	AA	1946764632
SNP_P4_26295_32415338	NC_021161.1	Ca_kabuli_chr02	32415338	AA	TT	1946764634
SNP_P4_26296_32416298	NC_021161.1	Ca_kabuli_chr02	32416298	TT	CC	1946764636
SNP_P4_26297_32417378	NC_021161.1	Ca_kabuli_chr02	32417378	AA	GG	1946764638
SNP_P4_26298_32417804	NC_021161.1	Ca_kabuli_chr02	32417804	CC	AA	1946764640
SNP_P4_26299_32417820	NC_021161.1	Ca_kabuli_chr02	32417820	GG	AA	1946764642
SNP_P4_26300_32417961	NC_021161.1	Ca_kabuli_chr02	32417961	AA	GG	1946764644
SNP_P4_26301_32418036	NC_021161.1	Ca_kabuli_chr02	32418036	CC	TT	1946764646

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_26303_32420046	NC_021161.1	Ca_kabuli_chr02	32420046	AA	GG	1946764650
SNP_P4_26304_32420280	NC_021161.1	Ca_kabuli_chr02	32420280	AA	GG	1946764652
SNP_P4_26306_32420457	NC_021161.1	Ca_kabuli_chr02	32420457	AA	TT	1946764654
SNP_P4_26307_32422165	NC_021161.1	Ca_kabuli_chr02	32422165	GG	TT	1946764656
SNP_P4_26308_32422176	NC_021161.1	Ca_kabuli_chr02	32422176	AA	GG	1946764658
SNP_P4_26309_32422221	NC_021161.1	Ca_kabuli_chr02	32422221	AA	TT	1946764660
SNP_P4_26310_32422710	NC_021161.1	Ca_kabuli_chr02	32422710	AA	TT	1946764662
SNP_P4_26313_32427803	NC_021161.1	Ca_kabuli_chr02	32427803	AA	GG	1946764664
SNP_P4_26314_32428201	NC_021161.1	Ca_kabuli_chr02	32428201	TT	AA	1946764666
SNP_P4_26315_32430363	NC_021161.1	Ca_kabuli_chr02	32430363	GG	TT	1946764668
SNP_P4_26316_32430407	NC_021161.1	Ca_kabuli_chr02	32430407	AA	CC	1946764670
SNP_P4_26317_32430460	NC_021161.1	Ca_kabuli_chr02	32430460	TT	GG	1946764671
SNP_P4_26318_32434130	NC_021161.1	Ca_kabuli_chr02	32434130	AA	CC	1946764673
SNP_P4_26319_32434391	NC_021161.1	Ca_kabuli_chr02	32434391	TT	CC	1946764675
SNP_P4_26321_32436354	NC_021161.1	Ca_kabuli_chr02	32436354	CC	AA	1946764677
SNP_P4_26322_32436395	NC_021161.1	Ca_kabuli_chr02	32436395	TT	CC	1946764679
SNP_P4_26324_32436488	NC_021161.1	Ca_kabuli_chr02	32436488	TT	GG	1946764681
SNP_P4_26325_32436489	NC_021161.1	Ca_kabuli_chr02	32436489	CC	TT	1946764683
SNP_P4_26326_32436495	NC_021161.1	Ca_kabuli_chr02	32436495	TT	AA	1946764685
SNP_P4_26327_32436754	NC_021161.1	Ca_kabuli_chr02	32436754	AA	GG	1946764687
SNP_P4_26328_32437788	NC_021161.1	Ca_kabuli_chr02	32437788	TT	AA	1946764689
SNP_P4_26329_32437796	NC_021161.1	Ca_kabuli_chr02	32437796	CC	TT	1946764691
SNP_P4_26330_32437818	NC_021161.1	Ca_kabuli_chr02	32437818	GG	TT	1946764693
SNP_P4_26331_32437837	NC_021161.1	Ca_kabuli_chr02	32437837	TT	AA	1946764695
SNP_P4_26332_32437941	NC_021161.1	Ca_kabuli_chr02	32437941	GG	AA	1946764697
SNP_P4_26333_32437949	NC_021161.1	Ca_kabuli_chr02	32437949	AA	GG	1946764699
SNP_P4_26334_32437961	NC_021161.1	Ca_kabuli_chr02	32437961	CC	GG	1946764701
SNP_P4_26335_32437979	NC_021161.1	Ca_kabuli_chr02	32437979	TT	CC	1946764703
SNP_P4_26336_32438018	NC_021161.1	Ca_kabuli_chr02	32438018	GG	AA	1946764705
SNP_P4_26337_32438022	NC_021161.1	Ca_kabuli_chr02	32438022	CC	TT	1946764707
SNP_P4_26338_32438023	NC_021161.1	Ca_kabuli_chr02	32438023	AA	CC	1946764709
SNP_P4_26339_32438039	NC_021161.1	Ca_kabuli_chr02	32438039	TT	CC	1946764711
SNP_P4_26340_32438204	NC_021161.1	Ca_kabuli_chr02	32438204	AA	GG	1946764712
SNP_P4_26341_32438205	NC_021161.1	Ca_kabuli_chr02	32438205	AA	GG	1946764714
SNP_P4_26342_32438231	NC_021161.1	Ca_kabuli_chr02	32438231	GG	AA	1946764716
SNP_P4_26343_32438232	NC_021161.1	Ca_kabuli_chr02	32438232	GG	AA	1946764718
SNP_P4_26344_32438262	NC_021161.1	Ca_kabuli_chr02	32438262	GG	AA	1946764720
SNP_P4_26345_32438265	NC_021161.1	Ca_kabuli_chr02	32438265	AA	GG	1946764722
SNP_P4_26346_32438267	NC_021161.1	Ca_kabuli_chr02	32438267	TT	CC	1946764724
SNP_P4_26347_32439654	NC_021161.1	Ca_kabuli_chr02	32439654	CC	GG	1946764726
SNP_P4_26348_32452902	NC_021161.1	Ca_kabuli_chr02	32452902	CC	TT	1946764727

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_26351_32453162	NC_021161.1	Ca_kabuli_chr02	32453162	TT	GG	1946764729
SNP_P4_26352_32453176	NC_021161.1	Ca_kabuli_chr02	32453176	GG	TT	1946764730
SNP_P4_26353_32455360	NC_021161.1	Ca_kabuli_chr02	32455360	AA	CC	1946764731
SNP_P4_26354_32474510	NC_021161.1	Ca_kabuli_chr02	32474510	GG	TT	1946764733
SNP_P4_26355_32474638	NC_021161.1	Ca_kabuli_chr02	32474638	AA	CC	1946764735
SNP_P4_26356_32474675	NC_021161.1	Ca_kabuli_chr02	32474675	CC	AA	1946764737
SNP_P4_26357_32474768	NC_021161.1	Ca_kabuli_chr02	32474768	AA	CC	1946764739
SNP_P4_26358_32474788	NC_021161.1	Ca_kabuli_chr02	32474788	TT	AA	1946764741
SNP_P4_26359_32474829	NC_021161.1	Ca_kabuli_chr02	32474829	GG	AA	1946764743
SNP_P4_26360_32474840	NC_021161.1	Ca_kabuli_chr02	32474840	TT	GG	1946764745
SNP_P4_26361_32475028	NC_021161.1	Ca_kabuli_chr02	32475028	CC	GG	1946764747
SNP_P4_26362_32475085	NC_021161.1	Ca_kabuli_chr02	32475085	TT	CC	1946764749
SNP_P4_26363_32475087	NC_021161.1	Ca_kabuli_chr02	32475087	GG	AA	1946764751
SNP_P4_26364_32475125	NC_021161.1	Ca_kabuli_chr02	32475125	AA	GG	1946764753
SNP_P4_26365_32475145	NC_021161.1	Ca_kabuli_chr02	32475145	GG	AA	1946764755
SNP_P4_26366_32475146	NC_021161.1	Ca_kabuli_chr02	32475146	CC	AA	1946764757
SNP_P4_26367_32475151	NC_021161.1	Ca_kabuli_chr02	32475151	CC	AA	1946764758
SNP_P4_26368_32475317	NC_021161.1	Ca_kabuli_chr02	32475317	AA	GG	1946764760
SNP_P4_26369_32475751	NC_021161.1	Ca_kabuli_chr02	32475751	AA	CC	1946764762
SNP_P4_26370_32476307	NC_021161.1	Ca_kabuli_chr02	32476307	GG	TT	1946764764
SNP_P4_26371_32476555	NC_021161.1	Ca_kabuli_chr02	32476555	AA	TT	1946764766
SNP_P4_26372_32476566	NC_021161.1	Ca_kabuli_chr02	32476566	GG	CC	1946764768
SNP_P4_26373_32476861	NC_021161.1	Ca_kabuli_chr02	32476861	TT	CC	1946764770
SNP_P4_26374_32477089	NC_021161.1	Ca_kabuli_chr02	32477089	AA	TT	1946764772
SNP_P4_26376_32477218	NC_021161.1	Ca_kabuli_chr02	32477218	CC	TT	1946764774
SNP_P4_26377_32477767	NC_021161.1	Ca_kabuli_chr02	32477767	AA	TT	1946764776
SNP_P4_26378_32477793	NC_021161.1	Ca_kabuli_chr02	32477793	CC	TT	1946764778
SNP_P4_26379_32478173	NC_021161.1	Ca_kabuli_chr02	32478173	GG	CC	1946764780
SNP_P4_26380_32478284	NC_021161.1	Ca_kabuli_chr02	32478284	TT	AA	1946764782
SNP_P4_26383_32479073	NC_021161.1	Ca_kabuli_chr02	32479073	GG	AA	1946764784
SNP_P4_26384_32479215	NC_021161.1	Ca_kabuli_chr02	32479215	AA	GG	1946764786
SNP_P4_26385_32479266	NC_021161.1	Ca_kabuli_chr02	32479266	AA	GG	1946764788
SNP_P4_26386_32479405	NC_021161.1	Ca_kabuli_chr02	32479405	AA	GG	1946764790
SNP_P4_26387_32479406	NC_021161.1	Ca_kabuli_chr02	32479406	GG	TT	1946764792
SNP_P4_26389_32479585	NC_021161.1	Ca_kabuli_chr02	32479585	AA	GG	1946764794
SNP_P4_26390_32479626	NC_021161.1	Ca_kabuli_chr02	32479626	GG	CC	1946764796
SNP_P4_26392_32485755	NC_021161.1	Ca_kabuli_chr02	32485755	CC	GG	1946764798
SNP_P4_26393_32487684	NC_021161.1	Ca_kabuli_chr02	32487684	TT	GG	1946764800
SNP_P4_26394_32488272	NC_021161.1	Ca_kabuli_chr02	32488272	TT	CC	1946764802
SNP_P4_26395_32493268	NC_021161.1	Ca_kabuli_chr02	32493268	CC	TT	1946764804
SNP_P4_26396_32506471	NC_021161.1	Ca_kabuli_chr02	32506471	GG	AA	1946764805

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_26401_32644657	NC_021161.1	Ca_kabuli_chr02	32644657	AA	GG	1946764809
SNP_P4_26403_32679916	NC_021161.1	Ca_kabuli_chr02	32679916	AA	GG	1946764811
SNP_P4_26404_32713393	NC_021161.1	Ca_kabuli_chr02	32713393	CC	AA	1946764813
SNP_P4_26405_32713621	NC_021161.1	Ca_kabuli_chr02	32713621	CC	TT	1946764815
SNP_P4_26408_32773778	NC_021161.1	Ca_kabuli_chr02	32773778	GG	AA	1946764817
SNP_P4_26409_32781132	NC_021161.1	Ca_kabuli_chr02	32781132	CC	AA	1946764819
SNP_P4_26410_32819380	NC_021161.1	Ca_kabuli_chr02	32819380	AA	CC	1946764821
SNP_P4_26411_32876467	NC_021161.1	Ca_kabuli_chr02	32876467	CC	TT	1946764823
SNP_P4_26412_32914753	NC_021161.1	Ca_kabuli_chr02	32914753	TT	CC	1946764825
SNP_P4_26413_32914816	NC_021161.1	Ca_kabuli_chr02	32914816	TT	CC	1946764827
SNP_P4_26414_32914833	NC_021161.1	Ca_kabuli_chr02	32914833	CC	TT	1946764829
SNP_P4_26415_32915039	NC_021161.1	Ca_kabuli_chr02	32915039	GG	AA	1946764831
SNP_P4_26416_32915145	NC_021161.1	Ca_kabuli_chr02	32915145	AA	TT	1946764833
SNP_P4_26417_32924532	NC_021161.1	Ca_kabuli_chr02	32924532	TT	GG	1946764835
SNP_P4_26419_32935101	NC_021161.1	Ca_kabuli_chr02	32935101	CC	TT	1946764836
SNP_P4_26420_32955078	NC_021161.1	Ca_kabuli_chr02	32955078	CC	GG	1946764837
SNP_P4_26421_32968876	NC_021161.1	Ca_kabuli_chr02	32968876	GG	AA	1946764838
SNP_P4_26423_32998260	NC_021161.1	Ca_kabuli_chr02	32998260	TT	AA	1946764840
SNP_P4_26424_33020596	NC_021161.1	Ca_kabuli_chr02	33020596	TT	CC	1946764842
SNP_P4_26425_33020597	NC_021161.1	Ca_kabuli_chr02	33020597	TT	CC	1946764844
SNP_P4_26428_33063728	NC_021161.1	Ca_kabuli_chr02	33063728	GG	AA	1946764846
SNP_P4_26431_33151940	NC_021161.1	Ca_kabuli_chr02	33151940	TT	GG	1946764848
SNP_P4_26432_33151950	NC_021161.1	Ca_kabuli_chr02	33151950	GG	TT	1946764850
SNP_P4_26433_33152001	NC_021161.1	Ca_kabuli_chr02	33152001	CC	AA	1946764852
SNP_P4_26434_33152077	NC_021161.1	Ca_kabuli_chr02	33152077	GG	TT	1946764854
SNP_P4_26435_33152162	NC_021161.1	Ca_kabuli_chr02	33152162	AA	GG	1946764856
SNP_P4_26436_33152231	NC_021161.1	Ca_kabuli_chr02	33152231	AA	TT	1946764858
SNP_P4_26437_33166097	NC_021161.1	Ca_kabuli_chr02	33166097	CC	TT	1946764860
SNP_P4_26438_33166115	NC_021161.1	Ca_kabuli_chr02	33166115	AA	GG	1946764862
SNP_P4_26439_33166132	NC_021161.1	Ca_kabuli_chr02	33166132	TT	CC	1946764864
SNP_P4_26440_33166160	NC_021161.1	Ca_kabuli_chr02	33166160	TT	CC	1946764866
SNP_P4_26441_33166192	NC_021161.1	Ca_kabuli_chr02	33166192	GG	AA	1946764868
SNP_P4_26442_33166240	NC_021161.1	Ca_kabuli_chr02	33166240	AA	GG	1946764870
SNP_P4_26443_33166350	NC_021161.1	Ca_kabuli_chr02	33166350	GG	AA	1946764872
SNP_P4_26444_33166434	NC_021161.1	Ca_kabuli_chr02	33166434	TT	CC	1946764874
SNP_P4_26445_33166485	NC_021161.1	Ca_kabuli_chr02	33166485	GG	TT	1946764876
SNP_P4_26446_33166525	NC_021161.1	Ca_kabuli_chr02	33166525	GG	AA	1946764878
SNP_P4_26447_33166535	NC_021161.1	Ca_kabuli_chr02	33166535	CC	GG	1946764880
SNP_P4_26448_33166561	NC_021161.1	Ca_kabuli_chr02	33166561	CC	TT	1946764882
SNP_P4_26449_33166563	NC_021161.1	Ca_kabuli_chr02	33166563	AA	CC	1946764884
SNP_P4_26450_33166570	NC_021161.1	Ca_kabuli_chr02	33166570	GG	AA	1946764886

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_26452_33166704	NC_021161.1	Ca_kabuli_chr02	33166704	CC	TT	1946764890
SNP_P4_26453_33167107	NC_021161.1	Ca_kabuli_chr02	33167107	AA	CC	1946764892
SNP_P4_26454_33167116	NC_021161.1	Ca_kabuli_chr02	33167116	AA	GG	1946764894
SNP_P4_26455_33171249	NC_021161.1	Ca_kabuli_chr02	33171249	GG	AA	1946764896
SNP_P4_26456_33218507	NC_021161.1	Ca_kabuli_chr02	33218507	AA	GG	1946764898
SNP_P4_26457_33240030	NC_021161.1	Ca_kabuli_chr02	33240030	TT	CC	1946764900
SNP_P4_26458_33240055	NC_021161.1	Ca_kabuli_chr02	33240055	CC	TT	1946764902
SNP_P4_26459_33243537	NC_021161.1	Ca_kabuli_chr02	33243537	TT	CC	1946764904
SNP_P4_26462_33258167	NC_021161.1	Ca_kabuli_chr02	33258167	GG	AA	1946764906
SNP_P4_26463_33258183	NC_021161.1	Ca_kabuli_chr02	33258183	TT	CC	1946764908
SNP_P4_26464_33258743	NC_021161.1	Ca_kabuli_chr02	33258743	CC	TT	1946764910
SNP_P4_26465_33269236	NC_021161.1	Ca_kabuli_chr02	33269236	GG	AA	1946764912
SNP_P4_26466_33269320	NC_021161.1	Ca_kabuli_chr02	33269320	CC	TT	1946764914
SNP_P4_26467_33269338	NC_021161.1	Ca_kabuli_chr02	33269338	GG	TT	1946764916
SNP_P4_26468_33269410	NC_021161.1	Ca_kabuli_chr02	33269410	AA	GG	1946764918
SNP_P4_26470_33283868	NC_021161.1	Ca_kabuli_chr02	33283868	CC	TT	1946764920
SNP_P4_26472_33296232	NC_021161.1	Ca_kabuli_chr02	33296232	AA	TT	1946764922
SNP_P4_26473_33345168	NC_021161.1	Ca_kabuli_chr02	33345168	AA	CC	1946764924
SNP_P4_26474_33345173	NC_021161.1	Ca_kabuli_chr02	33345173	TT	GG	1946764926
SNP_P4_26475_33345177	NC_021161.1	Ca_kabuli_chr02	33345177	AA	TT	1946764928
SNP_P4_26476_33345575	NC_021161.1	Ca_kabuli_chr02	33345575	AA	GG	1946764930
SNP_P4_26477_33345581	NC_021161.1	Ca_kabuli_chr02	33345581	GG	AA	1946764932
SNP_P4_26478_33345764	NC_021161.1	Ca_kabuli_chr02	33345764	GG	AA	1946764934
SNP_P4_26479_33345775	NC_021161.1	Ca_kabuli_chr02	33345775	GG	TT	1946764936
SNP_P4_26480_33346229	NC_021161.1	Ca_kabuli_chr02	33346229	AA	GG	1946764938
SNP_P4_26481_33346395	NC_021161.1	Ca_kabuli_chr02	33346395	AA	TT	1946764940
SNP_P4_26482_33346444	NC_021161.1	Ca_kabuli_chr02	33346444	AA	GG	1946764942
SNP_P4_26483_33346452	NC_021161.1	Ca_kabuli_chr02	33346452	GG	AA	1946764944
SNP_P4_26484_33346720	NC_021161.1	Ca_kabuli_chr02	33346720	TT	CC	1946764946
SNP_P4_26485_33346742	NC_021161.1	Ca_kabuli_chr02	33346742	TT	CC	1946764948
SNP_P4_26487_33346860	NC_021161.1	Ca_kabuli_chr02	33346860	AA	CC	1946764950
SNP_P4_26488_33346903	NC_021161.1	Ca_kabuli_chr02	33346903	AA	GG	1946764952
SNP_P4_26489_33346949	NC_021161.1	Ca_kabuli_chr02	33346949	GG	AA	1946764954
SNP_P4_26490_33347171	NC_021161.1	Ca_kabuli_chr02	33347171	CC	TT	1946764956
SNP_P4_26491_33347187	NC_021161.1	Ca_kabuli_chr02	33347187	GG	AA	1946764958
SNP_P4_26492_33347189	NC_021161.1	Ca_kabuli_chr02	33347189	TT	CC	1946764960
SNP_P4_26493_33347225	NC_021161.1	Ca_kabuli_chr02	33347225	CC	TT	1946764962
SNP_P4_26494_33353742	NC_021161.1	Ca_kabuli_chr02	33353742	TT	GG	1946764964
SNP_P4_26495_33353743	NC_021161.1	Ca_kabuli_chr02	33353743	GG	AA	1946764966
SNP_P4_26496_33363264	NC_021161.1	Ca_kabuli_chr02	33363264	TT	CC	1946764968
SNP_P4_26497_33365049	NC_021161.1	Ca_kabuli_chr02	33365049	CC	TT	1946764970

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_26500_33381913	NC_021161.1	Ca_kabuli_chr02	33381913	GG	TT	1946764974
SNP_P4_26501_33381927	NC_021161.1	Ca_kabuli_chr02	33381927	GG	CC	1946764976
SNP_P4_26505_33398527	NC_021161.1	Ca_kabuli_chr02	33398527	GG	TT	1946764978
SNP_P4_26506_33398549	NC_021161.1	Ca_kabuli_chr02	33398549	CC	TT	1946764980
SNP_P4_26507_33398550	NC_021161.1	Ca_kabuli_chr02	33398550	AA	GG	1946764982
SNP_P4_26508_33398735	NC_021161.1	Ca_kabuli_chr02	33398735	TT	AA	1946764984
SNP_P4_26509_33400684	NC_021161.1	Ca_kabuli_chr02	33400684	TT	CC	1946764986
SNP_P4_26510_33400969	NC_021161.1	Ca_kabuli_chr02	33400969	AA	TT	1946764988
SNP_P4_26511_33404571	NC_021161.1	Ca_kabuli_chr02	33404571	CC	TT	1946764990
SNP_P4_26513_33405442	NC_021161.1	Ca_kabuli_chr02	33405442	AA	GG	1946764992
SNP_P4_26514_33405445	NC_021161.1	Ca_kabuli_chr02	33405445	TT	AA	1946764994
SNP_P4_26515_33405469	NC_021161.1	Ca_kabuli_chr02	33405469	AA	GG	1946764996
SNP_P4_26516_33450606	NC_021161.1	Ca_kabuli_chr02	33450606	TT	CC	1946764998
SNP_P4_26517_33454039	NC_021161.1	Ca_kabuli_chr02	33454039	GG	CC	1946765000
SNP_P4_26518_33462805	NC_021161.1	Ca_kabuli_chr02	33462805	AA	GG	1946765002
SNP_P4_26519_33462911	NC_021161.1	Ca_kabuli_chr02	33462911	GG	TT	1946765004
SNP_P4_26520_33462953	NC_021161.1	Ca_kabuli_chr02	33462953	CC	AA	1946765006
SNP_P4_26521_33463060	NC_021161.1	Ca_kabuli_chr02	33463060	CC	GG	1946765008
SNP_P4_26523_33465922	NC_021161.1	Ca_kabuli_chr02	33465922	TT	GG	1946765010
SNP_P4_26524_33468220	NC_021161.1	Ca_kabuli_chr02	33468220	GG	AA	1946765012
SNP_P4_26525_33469596	NC_021161.1	Ca_kabuli_chr02	33469596	AA	GG	1946765014
SNP_P4_26526_33506237	NC_021161.1	Ca_kabuli_chr02	33506237	TT	GG	1946765016
SNP_P4_26527_33506241	NC_021161.1	Ca_kabuli_chr02	33506241	TT	AA	1946765018
SNP_P4_26528_33509840	NC_021161.1	Ca_kabuli_chr02	33509840	AA	GG	1946765020
SNP_P4_26530_33570546	NC_021161.1	Ca_kabuli_chr02	33570546	GG	AA	1946765022
SNP_P4_26531_33580213	NC_021161.1	Ca_kabuli_chr02	33580213	AA	GG	1946765024
SNP_P4_26532_33581868	NC_021161.1	Ca_kabuli_chr02	33581868	GG	TT	1946765026
SNP_P4_26533_33582304	NC_021161.1	Ca_kabuli_chr02	33582304	TT	GG	1946765028
SNP_P4_26534_33582336	NC_021161.1	Ca_kabuli_chr02	33582336	TT	CC	1946765030
SNP_P4_26535_33582702	NC_021161.1	Ca_kabuli_chr02	33582702	AA	GG	1946765032
SNP_P4_26536_33585364	NC_021161.1	Ca_kabuli_chr02	33585364	CC	AA	1946765034
SNP_P4_26537_33609171	NC_021161.1	Ca_kabuli_chr02	33609171	CC	TT	1946765036
SNP_P4_26539_33625731	NC_021161.1	Ca_kabuli_chr02	33625731	TT	CC	1946765038
SNP_P4_26540_33642149	NC_021161.1	Ca_kabuli_chr02	33642149	CC	TT	1946765040
SNP_P4_26543_33684416	NC_021161.1	Ca_kabuli_chr02	33684416	TT	CC	1946765042
SNP_P4_26544_33695292	NC_021161.1	Ca_kabuli_chr02	33695292	TT	AA	1946765044
SNP_P4_26545_33751679	NC_021161.1	Ca_kabuli_chr02	33751679	AA	TT	1946765046
SNP_P4_26546_33760552	NC_021161.1	Ca_kabuli_chr02	33760552	CC	TT	1946765048
SNP_P4_26547_33761577	NC_021161.1	Ca_kabuli_chr02	33761577	GG	AA	1946765050
SNP_P4_26548_33794361	NC_021161.1	Ca_kabuli_chr02	33794361	AA	GG	1946765051
SNP_P4_26549_33854266	NC_021161.1	Ca_kabuli_chr02	33854266	CC	TT	1946765054

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_26551_33860168	NC_021161.1	Ca_kabuli_chr02	33860168	AA	CC	1946765058
SNP_P4_26552_33860174	NC_021161.1	Ca_kabuli_chr02	33860174	TT	AA	1946765060
SNP_P4_26553_33882897	NC_021161.1	Ca_kabuli_chr02	33882897	TT	GG	1946765062
SNP_P4_26554_33944749	NC_021161.1	Ca_kabuli_chr02	33944749	CC	AA	1946765064
SNP_P4_26555_33955534	NC_021161.1	Ca_kabuli_chr02	33955534	TT	CC	1946765066
SNP_P4_26556_33955620	NC_021161.1	Ca_kabuli_chr02	33955620	AA	GG	1946765068
SNP_P4_26557_33959754	NC_021161.1	Ca_kabuli_chr02	33959754	AA	GG	1946765070
SNP_P4_26558_33959755	NC_021161.1	Ca_kabuli_chr02	33959755	GG	TT	1946765072
SNP_P4_26559_33959859	NC_021161.1	Ca_kabuli_chr02	33959859	CC	TT	1946765074
SNP_P4_26560_33959891	NC_021161.1	Ca_kabuli_chr02	33959891	GG	AA	1946765076
SNP_P4_26561_33984158	NC_021161.1	Ca_kabuli_chr02	33984158	GG	TT	1946765078
SNP_P4_26562_33984200	NC_021161.1	Ca_kabuli_chr02	33984200	TT	AA	1946765080
SNP_P4_26563_33984237	NC_021161.1	Ca_kabuli_chr02	33984237	CC	TT	1946765082
SNP_P4_26564_33984260	NC_021161.1	Ca_kabuli_chr02	33984260	AA	GG	1946765084
SNP_P4_26566_33984402	NC_021161.1	Ca_kabuli_chr02	33984402	GG	AA	1946765086
SNP_P4_26567_33984409	NC_021161.1	Ca_kabuli_chr02	33984409	AA	TT	1946765088
SNP_P4_26568_33984416	NC_021161.1	Ca_kabuli_chr02	33984416	CC	TT	1946765090
SNP_P4_26569_33984453	NC_021161.1	Ca_kabuli_chr02	33984453	TT	CC	1946765092
SNP_P4_26570_33984502	NC_021161.1	Ca_kabuli_chr02	33984502	GG	AA	1946765094
SNP_P4_26571_33984576	NC_021161.1	Ca_kabuli_chr02	33984576	TT	GG	1946765095
SNP_P4_26572_33984585	NC_021161.1	Ca_kabuli_chr02	33984585	TT	GG	1946765097
SNP_P4_26573_33984598	NC_021161.1	Ca_kabuli_chr02	33984598	AA	CC	1946765099
SNP_P4_26574_33984614	NC_021161.1	Ca_kabuli_chr02	33984614	AA	TT	1946765101
SNP_P4_26576_33984681	NC_021161.1	Ca_kabuli_chr02	33984681	AA	TT	1946765103
SNP_P4_26577_33985356	NC_021161.1	Ca_kabuli_chr02	33985356	GG	AA	1946765105
SNP_P4_26578_33985714	NC_021161.1	Ca_kabuli_chr02	33985714	AA	CC	1946765107
SNP_P4_26580_33986125	NC_021161.1	Ca_kabuli_chr02	33986125	AA	CC	1946765109
SNP_P4_26581_33986236	NC_021161.1	Ca_kabuli_chr02	33986236	AA	CC	1946765111
SNP_P4_26583_33986315	NC_021161.1	Ca_kabuli_chr02	33986315	TT	GG	1946765113
SNP_P4_26584_33986317	NC_021161.1	Ca_kabuli_chr02	33986317	TT	CC	1946765115
SNP_P4_26585_33986335	NC_021161.1	Ca_kabuli_chr02	33986335	TT	CC	1946765117
SNP_P4_26586_33986503	NC_021161.1	Ca_kabuli_chr02	33986503	CC	AA	1946765119
SNP_P4_26587_33986566	NC_021161.1	Ca_kabuli_chr02	33986566	AA	GG	1946765121
SNP_P4_26589_33986596	NC_021161.1	Ca_kabuli_chr02	33986596	GG	TT	1946765123
SNP_P4_26590_33986597	NC_021161.1	Ca_kabuli_chr02	33986597	GG	TT	1946765125
SNP_P4_26591_33986629	NC_021161.1	Ca_kabuli_chr02	33986629	AA	TT	1946765127
SNP_P4_26592_33986683	NC_021161.1	Ca_kabuli_chr02	33986683	CC	TT	1946765129
SNP_P4_26593_33986740	NC_021161.1	Ca_kabuli_chr02	33986740	CC	TT	1946765131
SNP_P4_26594_33986819	NC_021161.1	Ca_kabuli_chr02	33986819	AA	TT	1946765133
SNP_P4_26595_33986828	NC_021161.1	Ca_kabuli_chr02	33986828	AA	GG	1946765135
SNP_P4_26596_33986838	NC_021161.1	Ca_kabuli_chr02	33986838	GG	AA	1946765137

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_26599_33986923	NC_021161.1	Ca_kabuli_chr02	33986923	AA	TT	1946765142
SNP_P4_26600_34021889	NC_021161.1	Ca_kabuli_chr02	34021889	TT	AA	1946765144
SNP_P4_26601_34021976	NC_021161.1	Ca_kabuli_chr02	34021976	AA	CC	1946765146
SNP_P4_26602_34022549	NC_021161.1	Ca_kabuli_chr02	34022549	AA	CC	1946765148
SNP_P4_26603_34022824	NC_021161.1	Ca_kabuli_chr02	34022824	AA	GG	1946765150
SNP_P4_26604_34022954	NC_021161.1	Ca_kabuli_chr02	34022954	GG	AA	1946765152
SNP_P4_26605_34024569	NC_021161.1	Ca_kabuli_chr02	34024569	TT	GG	1946765154
SNP_P4_26606_34024589	NC_021161.1	Ca_kabuli_chr02	34024589	AA	TT	1946765156
SNP_P4_26607_34024835	NC_021161.1	Ca_kabuli_chr02	34024835	AA	CC	1946765158
SNP_P4_26608_34025175	NC_021161.1	Ca_kabuli_chr02	34025175	AA	TT	1946765160
SNP_P4_26609_34025270	NC_021161.1	Ca_kabuli_chr02	34025270	TT	CC	1946765162
SNP_P4_26610_34025286	NC_021161.1	Ca_kabuli_chr02	34025286	TT	CC	1946765164
SNP_P4_26611_34025330	NC_021161.1	Ca_kabuli_chr02	34025330	AA	TT	1946765166
SNP_P4_26612_34025456	NC_021161.1	Ca_kabuli_chr02	34025456	CC	TT	1946765168
SNP_P4_26613_34025637	NC_021161.1	Ca_kabuli_chr02	34025637	TT	CC	1946765170
SNP_P4_26614_34025653	NC_021161.1	Ca_kabuli_chr02	34025653	TT	GG	1946765172
SNP_P4_26615_34028460	NC_021161.1	Ca_kabuli_chr02	34028460	AA	CC	1946765174
SNP_P4_26616_34028465	NC_021161.1	Ca_kabuli_chr02	34028465	AA	TT	1946765176
SNP_P4_26617_34028525	NC_021161.1	Ca_kabuli_chr02	34028525	AA	TT	1946765178
SNP_P4_26618_34028549	NC_021161.1	Ca_kabuli_chr02	34028549	CC	AA	1946765180
SNP_P4_26619_34028572	NC_021161.1	Ca_kabuli_chr02	34028572	AA	TT	1946765182
SNP_P4_26620_34028751	NC_021161.1	Ca_kabuli_chr02	34028751	TT	CC	1946765184
SNP_P4_26621_34028821	NC_021161.1	Ca_kabuli_chr02	34028821	TT	CC	1946765186
SNP_P4_26622_34028828	NC_021161.1	Ca_kabuli_chr02	34028828	AA	GG	1946765188
SNP_P4_26624_34028908	NC_021161.1	Ca_kabuli_chr02	34028908	TT	CC	1946765190
SNP_P4_26625_34037724	NC_021161.1	Ca_kabuli_chr02	34037724	TT	GG	1946765192
SNP_P4_26626_34037739	NC_021161.1	Ca_kabuli_chr02	34037739	AA	TT	1946765194
SNP_P4_26627_34038155	NC_021161.1	Ca_kabuli_chr02	34038155	TT	CC	1946765196
SNP_P4_26628_34038534	NC_021161.1	Ca_kabuli_chr02	34038534	GG	AA	1946765198
SNP_P4_26629_34041417	NC_021161.1	Ca_kabuli_chr02	34041417	AA	GG	1946765200
SNP_P4_26630_34041444	NC_021161.1	Ca_kabuli_chr02	34041444	AA	GG	1946765202
SNP_P4_26631_34054932	NC_021161.1	Ca_kabuli_chr02	34054932	AA	TT	1946765204
SNP_P4_26633_34061644	NC_021161.1	Ca_kabuli_chr02	34061644	CC	TT	1946765206
SNP_P4_26634_34062809	NC_021161.1	Ca_kabuli_chr02	34062809	TT	AA	1946765208
SNP_P4_26635_34063422	NC_021161.1	Ca_kabuli_chr02	34063422	CC	TT	1946765210
SNP_P4_26636_34063452	NC_021161.1	Ca_kabuli_chr02	34063452	CC	TT	1946765212
SNP_P4_26637_34063822	NC_021161.1	Ca_kabuli_chr02	34063822	GG	AA	1946765214
SNP_P4_26639_34076126	NC_021161.1	Ca_kabuli_chr02	34076126	AA	CC	1946765217
SNP_P4_26640_34076196	NC_021161.1	Ca_kabuli_chr02	34076196	AA	GG	1946765219
SNP_P4_26641_34076782	NC_021161.1	Ca_kabuli_chr02	34076782	CC	AA	1946765221

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_26643_34086029	NC_021161.1	Ca_kabuli_chr02	34086029	CC	TT	1946765225
SNP_P4_26644_34086035	NC_021161.1	Ca_kabuli_chr02	34086035	CC	GG	1946765227
SNP_P4_26645_34086050	NC_021161.1	Ca_kabuli_chr02	34086050	GG	AA	1946765229
SNP_P4_26646_34086119	NC_021161.1	Ca_kabuli_chr02	34086119	AA	GG	1946765231
SNP_P4_26647_34086122	NC_021161.1	Ca_kabuli_chr02	34086122	CC	TT	1946765233
SNP_P4_26648_34086155	NC_021161.1	Ca_kabuli_chr02	34086155	GG	AA	1946765235
SNP_P4_26649_34086188	NC_021161.1	Ca_kabuli_chr02	34086188	GG	AA	1946765237
SNP_P4_26650_34086198	NC_021161.1	Ca_kabuli_chr02	34086198	TT	CC	1946765239
SNP_P4_26651_34086286	NC_021161.1	Ca_kabuli_chr02	34086286	CC	TT	1946765241
SNP_P4_26652_34086296	NC_021161.1	Ca_kabuli_chr02	34086296	CC	TT	1946765243
SNP_P4_26653_34086338	NC_021161.1	Ca_kabuli_chr02	34086338	AA	GG	1946765245
SNP_P4_26654_34086534	NC_021161.1	Ca_kabuli_chr02	34086534	TT	CC	1946765247
SNP_P4_26655_34087085	NC_021161.1	Ca_kabuli_chr02	34087085	TT	CC	1946765249
SNP_P4_26657_34119105	NC_021161.1	Ca_kabuli_chr02	34119105	AA	GG	1946765251
SNP_P4_26658_34140804	NC_021161.1	Ca_kabuli_chr02	34140804	GG	TT	1946765253
SNP_P4_26659_34143336	NC_021161.1	Ca_kabuli_chr02	34143336	CC	TT	1946765256
SNP_P4_26660_34143363	NC_021161.1	Ca_kabuli_chr02	34143363	CC	TT	1946765258
SNP_P4_26661_34173185	NC_021161.1	Ca_kabuli_chr02	34173185	AA	GG	1946765260
SNP_P4_26662_34184530	NC_021161.1	Ca_kabuli_chr02	34184530	AA	TT	1946765262
SNP_P4_26663_34188650	NC_021161.1	Ca_kabuli_chr02	34188650	AA	GG	1946765264
SNP_P4_26664_34195481	NC_021161.1	Ca_kabuli_chr02	34195481	AA	TT	1946765266
SNP_P4_26665_34201436	NC_021161.1	Ca_kabuli_chr02	34201436	AA	CC	1946765268
SNP_P4_26666_34205776	NC_021161.1	Ca_kabuli_chr02	34205776	AA	GG	1946765270
SNP_P4_26667_34232763	NC_021161.1	Ca_kabuli_chr02	34232763	GG	AA	1946765272
SNP_P4_26668_34254719	NC_021161.1	Ca_kabuli_chr02	34254719	TT	CC	1946765274
SNP_P4_26669_34262506	NC_021161.1	Ca_kabuli_chr02	34262506	TT	GG	1946765276
SNP_P4_26670_34264900	NC_021161.1	Ca_kabuli_chr02	34264900	AA	CC	1946765278
SNP_P4_26672_34272155	NC_021161.1	Ca_kabuli_chr02	34272155	TT	GG	1946765280
SNP_P4_26673_34272158	NC_021161.1	Ca_kabuli_chr02	34272158	AA	GG	1946765282
SNP_P4_26674_34278643	NC_021161.1	Ca_kabuli_chr02	34278643	AA	CC	1946765284
SNP_P4_26675_34290297	NC_021161.1	Ca_kabuli_chr02	34290297	AA	GG	1946765286
SNP_P4_26677_34327327	NC_021161.1	Ca_kabuli_chr02	34327327	AA	GG	1946765288
SNP_P4_26678_34330483	NC_021161.1	Ca_kabuli_chr02	34330483	TT	AA	1946765290
SNP_P4_26679_34330950	NC_021161.1	Ca_kabuli_chr02	34330950	AA	GG	1946765292
SNP_P4_26680_34330953	NC_021161.1	Ca_kabuli_chr02	34330953	AA	GG	1946765294
SNP_P4_26681_34333227	NC_021161.1	Ca_kabuli_chr02	34333227	TT	CC	1946765296
SNP_P4_26682_34333237	NC_021161.1	Ca_kabuli_chr02	34333237	AA	GG	1946765298
SNP_P4_26683_34333267	NC_021161.1	Ca_kabuli_chr02	34333267	CC	TT	1946765301
SNP_P4_26684_34334980	NC_021161.1	Ca_kabuli_chr02	34334980	AA	CC	1946765303
SNP_P4_26685_34336271	NC_021161.1	Ca_kabuli_chr02	34336271	GG	AA	1946765305
SNP_P4_26686_34336281	NC_021161.1	Ca_kabuli_chr02	34336281	AA	TT	1946765307

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_26688_34340532	NC_021161.1	Ca_kabuli_chr02	34340532	GG	AA	1946765311
SNP_P4_26689_34340718	NC_021161.1	Ca_kabuli_chr02	34340718	AA	GG	1946765313
SNP_P4_26690_34340725	NC_021161.1	Ca_kabuli_chr02	34340725	GG	AA	1946765315
SNP_P4_26691_34341236	NC_021161.1	Ca_kabuli_chr02	34341236	GG	AA	1946765317
SNP_P4_26692_34341265	NC_021161.1	Ca_kabuli_chr02	34341265	CC	TT	1946765319
SNP_P4_26693_34341466	NC_021161.1	Ca_kabuli_chr02	34341466	GG	AA	1946765321
SNP_P4_26694_34341471	NC_021161.1	Ca_kabuli_chr02	34341471	TT	AA	1946765323
SNP_P4_26695_34341929	NC_021161.1	Ca_kabuli_chr02	34341929	AA	GG	1946765325
SNP_P4_26696_34341953	NC_021161.1	Ca_kabuli_chr02	34341953	TT	CC	1946765327
SNP_P4_26699_34353800	NC_021161.1	Ca_kabuli_chr02	34353800	CC	TT	1946765329
SNP_P4_26701_34354082	NC_021161.1	Ca_kabuli_chr02	34354082	TT	CC	1946765331
SNP_P4_26702_34354372	NC_021161.1	Ca_kabuli_chr02	34354372	GG	TT	1946765333
SNP_P4_26703_34354616	NC_021161.1	Ca_kabuli_chr02	34354616	GG	AA	1946765335
SNP_P4_26704_34354632	NC_021161.1	Ca_kabuli_chr02	34354632	AA	TT	1946765337
SNP_P4_26705_34355149	NC_021161.1	Ca_kabuli_chr02	34355149	GG	CC	1946765339
SNP_P4_26708_34355499	NC_021161.1	Ca_kabuli_chr02	34355499	TT	AA	1946765341
SNP_P4_26710_34355603	NC_021161.1	Ca_kabuli_chr02	34355603	AA	GG	1946765343
SNP_P4_26711_34355766	NC_021161.1	Ca_kabuli_chr02	34355766	AA	GG	1946765345
SNP_P4_26712_34355804	NC_021161.1	Ca_kabuli_chr02	34355804	AA	GG	1946765347
SNP_P4_26714_34358169	NC_021161.1	Ca_kabuli_chr02	34358169	TT	CC	1946765349
SNP_P4_26716_34432316	NC_021161.1	Ca_kabuli_chr02	34432316	GG	AA	1946765351
SNP_P4_26718_34497103	NC_021161.1	Ca_kabuli_chr02	34497103	CC	TT	1946765353
SNP_P4_26719_34499652	NC_021161.1	Ca_kabuli_chr02	34499652	GG	TT	1946765355
SNP_P4_26720_34508430	NC_021161.1	Ca_kabuli_chr02	34508430	GG	AA	1946765357
SNP_P4_26721_34530405	NC_021161.1	Ca_kabuli_chr02	34530405	CC	TT	1946765359
SNP_P4_26722_34542511	NC_021161.1	Ca_kabuli_chr02	34542511	AA	GG	1946765361
SNP_P4_26724_34566542	NC_021161.1	Ca_kabuli_chr02	34566542	AA	CC	1946765363
SNP_P4_26725_34566561	NC_021161.1	Ca_kabuli_chr02	34566561	AA	TT	1946765365
SNP_P4_26726_34566633	NC_021161.1	Ca_kabuli_chr02	34566633	TT	CC	1946765367
SNP_P4_26727_34566670	NC_021161.1	Ca_kabuli_chr02	34566670	AA	GG	1946765369
SNP_P4_26728_34566798	NC_021161.1	Ca_kabuli_chr02	34566798	CC	GG	1946765371
SNP_P4_26729_34566862	NC_021161.1	Ca_kabuli_chr02	34566862	AA	CC	1946765373
SNP_P4_26730_34566908	NC_021161.1	Ca_kabuli_chr02	34566908	CC	TT	1946765376
SNP_P4_26731_34566945	NC_021161.1	Ca_kabuli_chr02	34566945	TT	CC	1946765378
SNP_P4_26732_34567017	NC_021161.1	Ca_kabuli_chr02	34567017	AA	GG	1946765380
SNP_P4_26733_34567061	NC_021161.1	Ca_kabuli_chr02	34567061	AA	TT	1946765382
SNP_P4_26734_34567101	NC_021161.1	Ca_kabuli_chr02	34567101	TT	GG	1946765384
SNP_P4_26735_34567153	NC_021161.1	Ca_kabuli_chr02	34567153	TT	GG	1946765386
SNP_P4_26736_34567161	NC_021161.1	Ca_kabuli_chr02	34567161	TT	CC	1946765388
SNP_P4_26739_34588450	NC_021161.1	Ca_kabuli_chr02	34588450	CC	TT	1946765390
SNP_P4_26740_34648174	NC_021161.1	Ca_kabuli_chr02	34648174	CC	TT	1946765392

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_26742_34672336	NC_021161.1	Ca_kabuli_chr02	34672336	AA	GG	1946765396
SNP_P4_26743_34683522	NC_021161.1	Ca_kabuli_chr02	34683522	TT	AA	1946765398
SNP_P4_26744_34683539	NC_021161.1	Ca_kabuli_chr02	34683539	CC	TT	1946765400
SNP_P4_26745_34683576	NC_021161.1	Ca_kabuli_chr02	34683576	CC	TT	1946765402
SNP_P4_26746_34683739	NC_021161.1	Ca_kabuli_chr02	34683739	AA	CC	1946765404
SNP_P4_26748_34683876	NC_021161.1	Ca_kabuli_chr02	34683876	AA	GG	1946765406
SNP_P4_26749_34683889	NC_021161.1	Ca_kabuli_chr02	34683889	AA	TT	1946765408
SNP_P4_26750_34683928	NC_021161.1	Ca_kabuli_chr02	34683928	TT	AA	1946765410
SNP_P4_26751_34683949	NC_021161.1	Ca_kabuli_chr02	34683949	CC	AA	1946765412
SNP_P4_26752_34684026	NC_021161.1	Ca_kabuli_chr02	34684026	TT	CC	1946765414
SNP_P4_26753_34684138	NC_021161.1	Ca_kabuli_chr02	34684138	GG	AA	1946765416
SNP_P4_26754_34684183	NC_021161.1	Ca_kabuli_chr02	34684183	AA	GG	1946765418
SNP_P4_26755_34684216	NC_021161.1	Ca_kabuli_chr02	34684216	AA	GG	1946765420
SNP_P4_26756_34684222	NC_021161.1	Ca_kabuli_chr02	34684222	GG	AA	1946765422
SNP_P4_26757_34684251	NC_021161.1	Ca_kabuli_chr02	34684251	GG	TT	1946765424
SNP_P4_26758_34684271	NC_021161.1	Ca_kabuli_chr02	34684271	AA	TT	1946765426
SNP_P4_26759_34684276	NC_021161.1	Ca_kabuli_chr02	34684276	AA	GG	1946765428
SNP_P4_26760_34684296	NC_021161.1	Ca_kabuli_chr02	34684296	AA	GG	1946765430
SNP_P4_26761_34684314	NC_021161.1	Ca_kabuli_chr02	34684314	GG	CC	1946765432
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SNP_P4_26763_34684327	NC_021161.1	Ca_kabuli_chr02	34684327	AA	GG	1946765437
SNP_P4_26764_34684342	NC_021161.1	Ca_kabuli_chr02	34684342	TT	GG	1946765439
SNP_P4_26765_34684354	NC_021161.1	Ca_kabuli_chr02	34684354	TT	CC	1946765441
SNP_P4_26767_34684403	NC_021161.1	Ca_kabuli_chr02	34684403	GG	AA	1946765443
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SNP_P4_26769_34684448	NC_021161.1	Ca_kabuli_chr02	34684448	CC	TT	1946765447
SNP_P4_26770_34684509	NC_021161.1	Ca_kabuli_chr02	34684509	TT	GG	1946765449
SNP_P4_26772_34684646	NC_021161.1	Ca_kabuli_chr02	34684646	GG	AA	1946765451
SNP_P4_26774_34684732	NC_021161.1	Ca_kabuli_chr02	34684732	AA	GG	1946765454
SNP_P4_26775_34684742	NC_021161.1	Ca_kabuli_chr02	34684742	GG	AA	1946765456
SNP_P4_26776_34684754	NC_021161.1	Ca_kabuli_chr02	34684754	GG	TT	1946765458
SNP_P4_26777_34684850	NC_021161.1	Ca_kabuli_chr02	34684850	TT	CC	1946765460
SNP_P4_26779_34685009	NC_021161.1	Ca_kabuli_chr02	34685009	CC	AA	1946765462
SNP_P4_26780_34685048	NC_021161.1	Ca_kabuli_chr02	34685048	CC	TT	1946765463
SNP_P4_26781_34685085	NC_021161.1	Ca_kabuli_chr02	34685085	CC	TT	1946765466
SNP_P4_26782_34685101	NC_021161.1	Ca_kabuli_chr02	34685101	CC	TT	1946765468
SNP_P4_26783_34685116	NC_021161.1	Ca_kabuli_chr02	34685116	TT	GG	1946765470
SNP_P4_26784_34685148	NC_021161.1	Ca_kabuli_chr02	34685148	GG	TT	1946765472
SNP_P4_26785_34685180	NC_021161.1	Ca_kabuli_chr02	34685180	CC	TT	1946765474
SNP_P4_26787_34685510	NC_021161.1	Ca_kabuli_chr02	34685510	TT	CC	1946765476
SNP_P4_26788_34685620	NC_021161.1	Ca_kabuli_chr02	34685620	GG	TT	1946765478

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_26792_34685736	NC_021161.1	Ca_kabuli_chr02	34685736	CC	TT	1946765484
SNP_P4_26793_34685789	NC_021161.1	Ca_kabuli_chr02	34685789	TT	GG	1946765486
SNP_P4_26794_34685796	NC_021161.1	Ca_kabuli_chr02	34685796	TT	AA	1946765488
SNP_P4_26795_34719975	NC_021161.1	Ca_kabuli_chr02	34719975	CC	AA	1946765490
SNP_P4_26796_34726976	NC_021161.1	Ca_kabuli_chr02	34726976	TT	CC	1946765492
SNP_P4_26797_34726979	NC_021161.1	Ca_kabuli_chr02	34726979	AA	GG	1946765494
SNP_P4_26798_34739253	NC_021161.1	Ca_kabuli_chr02	34739253	AA	GG	1946765497
SNP_P4_26799_34768734	NC_021161.1	Ca_kabuli_chr02	34768734	TT	GG	1946765499
SNP_P4_26801_34785590	NC_021161.1	Ca_kabuli_chr02	34785590	TT	GG	1946765501
SNP_P4_26802_34803341	NC_021161.1	Ca_kabuli_chr02	34803341	TT	CC	1946765503
SNP_P4_26803_34807547	NC_021161.1	Ca_kabuli_chr02	34807547	GG	AA	1946765505
SNP_P4_26804_34809592	NC_021161.1	Ca_kabuli_chr02	34809592	GG	AA	1946765507
SNP_P4_26805_34810138	NC_021161.1	Ca_kabuli_chr02	34810138	GG	AA	1946765509
SNP_P4_26806_34824845	NC_021161.1	Ca_kabuli_chr02	34824845	AA	GG	1946765511
SNP_P4_26807_34830733	NC_021161.1	Ca_kabuli_chr02	34830733	CC	GG	1946765513
SNP_P4_26808_34830827	NC_021161.1	Ca_kabuli_chr02	34830827	CC	TT	1946765515
SNP_P4_26809_34830967	NC_021161.1	Ca_kabuli_chr02	34830967	GG	AA	1946765517
SNP_P4_26810_34831021	NC_021161.1	Ca_kabuli_chr02	34831021	CC	TT	1946765519
SNP_P4_26811_34831161	NC_021161.1	Ca_kabuli_chr02	34831161	TT	CC	1946765521
SNP_P4_26814_34905321	NC_021161.1	Ca_kabuli_chr02	34905321	CC	TT	1946765523
SNP_P4_26815_34924326	NC_021161.1	Ca_kabuli_chr02	34924326	TT	GG	1946765526
SNP_P4_26816_34943595	NC_021161.1	Ca_kabuli_chr02	34943595	TT	CC	1946765528
SNP_P4_26817_34943633	NC_021161.1	Ca_kabuli_chr02	34943633	AA	CC	1946765530
SNP_P4_26819_34983186	NC_021161.1	Ca_kabuli_chr02	34983186	TT	CC	1946765532
SNP_P4_26821_35073717	NC_021161.1	Ca_kabuli_chr02	35073717	CC	TT	1946765534
SNP_P4_26822_35074766	NC_021161.1	Ca_kabuli_chr02	35074766	CC	TT	1946765536
SNP_P4_26824_35125679	NC_021161.1	Ca_kabuli_chr02	35125679	GG	AA	1946765538
SNP_P4_26829_35246849	NC_021161.1	Ca_kabuli_chr02	35246849	TT	CC	1946765540
SNP_P4_26830_35246904	NC_021161.1	Ca_kabuli_chr02	35246904	AA	CC	1946765542
SNP_P4_26831_35258079	NC_021161.1	Ca_kabuli_chr02	35258079	CC	TT	1946765544
SNP_P4_26832_35258090	NC_021161.1	Ca_kabuli_chr02	35258090	AA	GG	1946765546
SNP_P4_26833_35258094	NC_021161.1	Ca_kabuli_chr02	35258094	TT	CC	1946765548
SNP_P4_26834_35258397	NC_021161.1	Ca_kabuli_chr02	35258397	TT	CC	1946765550
SNP_P4_26836_35258650	NC_021161.1	Ca_kabuli_chr02	35258650	GG	AA	1946765552
SNP_P4_26837_35258711	NC_021161.1	Ca_kabuli_chr02	35258711	TT	CC	1946765554
SNP_P4_26839_35258756	NC_021161.1	Ca_kabuli_chr02	35258756	CC	TT	1946765556
SNP_P4_26840_35258801	NC_021161.1	Ca_kabuli_chr02	35258801	TT	CC	1946765558
SNP_P4_26841_35258841	NC_021161.1	Ca_kabuli_chr02	35258841	TT	CC	1946765560
SNP_P4_26842_35258852	NC_021161.1	Ca_kabuli_chr02	35258852	AA	GG	1946765562
SNP_P4_26843_35258857	NC_021161.1	Ca_kabuli_chr02	35258857	GG	AA	1946765564

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_26844_35258881	NC_021161.1	Ca_kabuli_chr02	35258881	TT	CC	1946765566
SNP_P4_26845_35259129	NC_021161.1	Ca_kabuli_chr02	35259129	TT	AA	1946765568
SNP_P4_26846_35259139	NC_021161.1	Ca_kabuli_chr02	35259139	AA	TT	1946765570
SNP_P4_26847_35259149	NC_021161.1	Ca_kabuli_chr02	35259149	CC	TT	1946765572
SNP_P4_26849_35260917	NC_021161.1	Ca_kabuli_chr02	35260917	CC	TT	1946765574
SNP_P4_26850_35273944	NC_021161.1	Ca_kabuli_chr02	35273944	TT	AA	1946765576
SNP_P4_26851_35287542	NC_021161.1	Ca_kabuli_chr02	35287542	CC	TT	1946765578
SNP_P4_26852_35287920	NC_021161.1	Ca_kabuli_chr02	35287920	CC	TT	1946765580
SNP_P4_26853_35287962	NC_021161.1	Ca_kabuli_chr02	35287962	GG	CC	1946765582
SNP_P4_26854_35288028	NC_021161.1	Ca_kabuli_chr02	35288028	TT	AA	1946765584
SNP_P4_26855_35288039	NC_021161.1	Ca_kabuli_chr02	35288039	AA	GG	1946765586
SNP_P4_26856_35288097	NC_021161.1	Ca_kabuli_chr02	35288097	TT	CC	1946765588
SNP_P4_26858_35288190	NC_021161.1	Ca_kabuli_chr02	35288190	AA	GG	1946765590
SNP_P4_26859_35288203	NC_021161.1	Ca_kabuli_chr02	35288203	AA	GG	1946765592
SNP_P4_26860_35288205	NC_021161.1	Ca_kabuli_chr02	35288205	GG	TT	1946765595
SNP_P4_26861_35288260	NC_021161.1	Ca_kabuli_chr02	35288260	AA	GG	1946765597
SNP_P4_26862_35288350	NC_021161.1	Ca_kabuli_chr02	35288350	TT	CC	1946765599
SNP_P4_26863_35288351	NC_021161.1	Ca_kabuli_chr02	35288351	TT	CC	1946765601
SNP_P4_26864_35288379	NC_021161.1	Ca_kabuli_chr02	35288379	AA	CC	1946765603
SNP_P4_26865_35288412	NC_021161.1	Ca_kabuli_chr02	35288412	GG	TT	1946765605
SNP_P4_26867_35288529	NC_021161.1	Ca_kabuli_chr02	35288529	AA	TT	1946765607
SNP_P4_26868_35288530	NC_021161.1	Ca_kabuli_chr02	35288530	CC	TT	1946765609
SNP_P4_26869_35288540	NC_021161.1	Ca_kabuli_chr02	35288540	TT	AA	1946765611
SNP_P4_26870_35288578	NC_021161.1	Ca_kabuli_chr02	35288578	GG	TT	1946765613
SNP_P4_26871_35288581	NC_021161.1	Ca_kabuli_chr02	35288581	GG	AA	1946765615
SNP_P4_26872_35288703	NC_021161.1	Ca_kabuli_chr02	35288703	TT	CC	1946765617
SNP_P4_26873_35288746	NC_021161.1	Ca_kabuli_chr02	35288746	AA	TT	1946765619
SNP_P4_26874_35288859	NC_021161.1	Ca_kabuli_chr02	35288859	TT	GG	1946765621
SNP_P4_26875_35288863	NC_021161.1	Ca_kabuli_chr02	35288863	GG	TT	1946765623
SNP_P4_26876_35288966	NC_021161.1	Ca_kabuli_chr02	35288966	TT	CC	1946765625
SNP_P4_26877_35288967	NC_021161.1	Ca_kabuli_chr02	35288967	TT	AA	1946765627
SNP_P4_26878_35289047	NC_021161.1	Ca_kabuli_chr02	35289047	TT	CC	1946765629
SNP_P4_26879_35289099	NC_021161.1	Ca_kabuli_chr02	35289099	TT	GG	1946765631
SNP_P4_26880_35289103	NC_021161.1	Ca_kabuli_chr02	35289103	GG	CC	1946765633
SNP_P4_26881_35289282	NC_021161.1	Ca_kabuli_chr02	35289282	AA	CC	1946765635
SNP_P4_26882_35289300	NC_021161.1	Ca_kabuli_chr02	35289300	AA	CC	1946765637
SNP_P4_26883_35289310	NC_021161.1	Ca_kabuli_chr02	35289310	TT	AA	1946765639
SNP_P4_26884_35289367	NC_021161.1	Ca_kabuli_chr02	35289367	GG	TT	1946765641
SNP_P4_26885_35289371	NC_021161.1	Ca_kabuli_chr02	35289371	AA	TT	1946765643
SNP_P4_26887_35291940	NC_021161.1	Ca_kabuli_chr02	35291940	AA	GG	1946765645
SNP_P4_26890_35297860	NC_021161.1	Ca_kabuli_chr02	35297860	CC	AA	1946765647
SNP_P4_26892_35298528	NC_021161.1	Ca_kabuli_chr02	35298528	GG	AA	1946765649

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_26894_35298857	NC_021161.1	Ca_kabuli_chr02	35298857	GG	AA	1946765653
SNP_P4_26895_35299052	NC_021161.1	Ca_kabuli_chr02	35299052	CC	TT	1946765655
SNP_P4_26896_35299116	NC_021161.1	Ca_kabuli_chr02	35299116	GG	AA	1946765657
SNP_P4_26897_35299117	NC_021161.1	Ca_kabuli_chr02	35299117	AA	CC	1946765659
SNP_P4_26898_35299129	NC_021161.1	Ca_kabuli_chr02	35299129	GG	AA	1946765662
SNP_P4_26899_35299163	NC_021161.1	Ca_kabuli_chr02	35299163	AA	GG	1946765664
SNP_P4_26900_35299597	NC_021161.1	Ca_kabuli_chr02	35299597	TT	CC	1946765666
SNP_P4_26901_35299868	NC_021161.1	Ca_kabuli_chr02	35299868	GG	TT	1946765668
SNP_P4_26902_35300219	NC_021161.1	Ca_kabuli_chr02	35300219	GG	AA	1946765670
SNP_P4_26903_35300227	NC_021161.1	Ca_kabuli_chr02	35300227	GG	TT	1946765672
SNP_P4_26904_35300860	NC_021161.1	Ca_kabuli_chr02	35300860	TT	CC	1946765674
SNP_P4_26905_35302844	NC_021161.1	Ca_kabuli_chr02	35302844	GG	AA	1946765676
SNP_P4_26906_35302916	NC_021161.1	Ca_kabuli_chr02	35302916	GG	AA	1946765678
SNP_P4_26907_35302992	NC_021161.1	Ca_kabuli_chr02	35302992	GG	AA	1946765680
SNP_P4_26908_35303184	NC_021161.1	Ca_kabuli_chr02	35303184	GG	AA	1946765682
SNP_P4_26909_35303231	NC_021161.1	Ca_kabuli_chr02	35303231	CC	TT	1946765684
SNP_P4_26910_35303281	NC_021161.1	Ca_kabuli_chr02	35303281	TT	AA	1946765686
SNP_P4_26911_35303295	NC_021161.1	Ca_kabuli_chr02	35303295	GG	AA	1946765688
SNP_P4_26912_35303397	NC_021161.1	Ca_kabuli_chr02	35303397	GG	AA	1946765690
SNP_P4_26914_35303511	NC_021161.1	Ca_kabuli_chr02	35303511	GG	AA	1946765692
SNP_P4_26915_35303589	NC_021161.1	Ca_kabuli_chr02	35303589	AA	GG	1946765694
SNP_P4_26916_35303595	NC_021161.1	Ca_kabuli_chr02	35303595	TT	GG	1946765696
SNP_P4_26917_35303614	NC_021161.1	Ca_kabuli_chr02	35303614	TT	CC	1946765698
SNP_P4_26918_35303671	NC_021161.1	Ca_kabuli_chr02	35303671	CC	AA	1946765700
SNP_P4_26919_35303711	NC_021161.1	Ca_kabuli_chr02	35303711	GG	AA	1946765702
SNP_P4_26920_35303836	NC_021161.1	Ca_kabuli_chr02	35303836	GG	AA	1946765704
SNP_P4_26921_35303932	NC_021161.1	Ca_kabuli_chr02	35303932	TT	CC	1946765706
SNP_P4_26922_35303957	NC_021161.1	Ca_kabuli_chr02	35303957	TT	CC	1946765708
SNP_P4_26923_35303978	NC_021161.1	Ca_kabuli_chr02	35303978	TT	GG	1946765710
SNP_P4_26924_35304015	NC_021161.1	Ca_kabuli_chr02	35304015	GG	CC	1946765712
SNP_P4_26925_35304021	NC_021161.1	Ca_kabuli_chr02	35304021	TT	CC	1946765714
SNP_P4_26926_35304053	NC_021161.1	Ca_kabuli_chr02	35304053	GG	TT	1946765716
SNP_P4_26927_35304070	NC_021161.1	Ca_kabuli_chr02	35304070	TT	CC	1946765718
SNP_P4_26928_35304207	NC_021161.1	Ca_kabuli_chr02	35304207	GG	AA	1946765720
SNP_P4_26929_35304311	NC_021161.1	Ca_kabuli_chr02	35304311	GG	AA	1946765722
SNP_P4_26930_35304451	NC_021161.1	Ca_kabuli_chr02	35304451	CC	TT	1946765724
SNP_P4_26931_35304458	NC_021161.1	Ca_kabuli_chr02	35304458	GG	AA	1946765726
SNP_P4_26932_35304463	NC_021161.1	Ca_kabuli_chr02	35304463	AA	CC	1946765728
SNP_P4_26933_35304588	NC_021161.1	Ca_kabuli_chr02	35304588	TT	CC	1946765730
SNP_P4_26935_35304719	NC_021161.1	Ca_kabuli_chr02	35304719	TT	CC	1946765732
SNP_P4_26936_35304722	NC_021161.1	Ca_kabuli_chr02	35304722	TT	CC	1946765734

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_26938_35304962	NC_021161.1	Ca_kabuli_chr02	35304962	GG	TT	1946765738
SNP_P4_26939_35305015	NC_021161.1	Ca_kabuli_chr02	35305015	GG	AA	1946765740
SNP_P4_26940_35305136	NC_021161.1	Ca_kabuli_chr02	35305136	CC	TT	1946765742
SNP_P4_26941_35305138	NC_021161.1	Ca_kabuli_chr02	35305138	AA	GG	1946765744
SNP_P4_26942_35305254	NC_021161.1	Ca_kabuli_chr02	35305254	CC	AA	1946765746
SNP_P4_26943_35305399	NC_021161.1	Ca_kabuli_chr02	35305399	CC	TT	1946765748
SNP_P4_26944_35305429	NC_021161.1	Ca_kabuli_chr02	35305429	AA	GG	1946765750
SNP_P4_26945_35305584	NC_021161.1	Ca_kabuli_chr02	35305584	AA	GG	1946765752
SNP_P4_26946_35305647	NC_021161.1	Ca_kabuli_chr02	35305647	CC	TT	1946765754
SNP_P4_26947_35306135	NC_021161.1	Ca_kabuli_chr02	35306135	AA	GG	1946765756
SNP_P4_26948_35306353	NC_021161.1	Ca_kabuli_chr02	35306353	GG	AA	1946765759
SNP_P4_26949_35306374	NC_021161.1	Ca_kabuli_chr02	35306374	TT	CC	1946765761
SNP_P4_26950_35313126	NC_021161.1	Ca_kabuli_chr02	35313126	GG	TT	1946765763
SNP_P4_26951_35313171	NC_021161.1	Ca_kabuli_chr02	35313171	CC	TT	1946765765
SNP_P4_26952_35313225	NC_021161.1	Ca_kabuli_chr02	35313225	TT	GG	1946765767
SNP_P4_26953_35313309	NC_021161.1	Ca_kabuli_chr02	35313309	CC	TT	1946765769
SNP_P4_26954_35313842	NC_021161.1	Ca_kabuli_chr02	35313842	AA	GG	1946765771
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SNP_P4_26957_35353824	NC_021161.1	Ca_kabuli_chr02	35353824	TT	AA	1946765775
SNP_P4_26958_35353827	NC_021161.1	Ca_kabuli_chr02	35353827	AA	CC	1946765777
SNP_P4_26960_35406578	NC_021161.1	Ca_kabuli_chr02	35406578	CC	TT	1946765779
SNP_P4_26961_35410973	NC_021161.1	Ca_kabuli_chr02	35410973	GG	CC	1946765781
SNP_P4_26962_35413576	NC_021161.1	Ca_kabuli_chr02	35413576	TT	CC	1946765783
SNP_P4_26963_35417617	NC_021161.1	Ca_kabuli_chr02	35417617	AA	GG	1946765785
SNP_P4_26964_35423953	NC_021161.1	Ca_kabuli_chr02	35423953	TT	GG	1946765787
SNP_P4_26966_35461291	NC_021161.1	Ca_kabuli_chr02	35461291	GG	AA	1946765789
SNP_P4_26968_35553107	NC_021161.1	Ca_kabuli_chr02	35553107	AA	GG	1946765791
SNP_P4_26969_35556094	NC_021161.1	Ca_kabuli_chr02	35556094	TT	CC	1946765793
SNP_P4_26970_35556097	NC_021161.1	Ca_kabuli_chr02	35556097	GG	CC	1946765795
SNP_P4_26971_35559080	NC_021161.1	Ca_kabuli_chr02	35559080	TT	CC	1946765798
SNP_P4_26974_35578464	NC_021161.1	Ca_kabuli_chr02	35578464	AA	TT	1946765800
SNP_P4_26975_35580369	NC_021161.1	Ca_kabuli_chr02	35580369	AA	GG	1946765802
SNP_P4_26976_35580446	NC_021161.1	Ca_kabuli_chr02	35580446	TT	CC	1946765804
SNP_P4_26977_35580628	NC_021161.1	Ca_kabuli_chr02	35580628	AA	TT	1946765806
SNP_P4_26978_35580685	NC_021161.1	Ca_kabuli_chr02	35580685	CC	GG	1946765808
SNP_P4_26979_35580704	NC_021161.1	Ca_kabuli_chr02	35580704	CC	AA	1946765810
SNP_P4_26980_35580875	NC_021161.1	Ca_kabuli_chr02	35580875	CC	TT	1946765813
SNP_P4_26981_35581047	NC_021161.1	Ca_kabuli_chr02	35581047	GG	AA	1946765819
SNP_P4_26983_35582183	NC_021161.1	Ca_kabuli_chr02	35582183	AA	TT	1946765824
SNP_P4_26984_35582497	NC_021161.1	Ca_kabuli_chr02	35582497	AA	CC	1946765828
SNP_P4_26985_35624164	NC_021161.1	Ca_kabuli_chr02	35624164	CC	TT	1946765830

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_26988_35651102	NC_021161.1	Ca_kabuli_chr02	35651102	CC	TT	1946765835
SNP_P4_26989_35655639	NC_021161.1	Ca_kabuli_chr02	35655639	TT	CC	1946765838
SNP_P4_26990_35655640	NC_021161.1	Ca_kabuli_chr02	35655640	TT	CC	1946765840
SNP_P4_26991_35655648	NC_021161.1	Ca_kabuli_chr02	35655648	AA	CC	1946765842
SNP_P4_26994_35696748	NC_021161.1	Ca_kabuli_chr02	35696748	TT	GG	1946765844
SNP_P4_26995_35696789	NC_021161.1	Ca_kabuli_chr02	35696789	TT	CC	1946765846
SNP_P4_26996_35697181	NC_021161.1	Ca_kabuli_chr02	35697181	AA	GG	1946765849
SNP_P4_26997_35711922	NC_021161.1	Ca_kabuli_chr02	35711922	TT	CC	1946765851
SNP_P4_26999_35722499	NC_021161.1	Ca_kabuli_chr02	35722499	GG	TT	1946765854
SNP_P4_27000_35734841	NC_021161.1	Ca_kabuli_chr02	35734841	GG	AA	1946765856
SNP_P4_27002_35746727	NC_021161.1	Ca_kabuli_chr02	35746727	AA	CC	1946765858
SNP_P4_27003_35746728	NC_021161.1	Ca_kabuli_chr02	35746728	AA	TT	1946765860
SNP_P4_27004_35761993	NC_021161.1	Ca_kabuli_chr02	35761993	AA	GG	1946765862
SNP_P4_27005_35775449	NC_021161.1	Ca_kabuli_chr02	35775449	CC	TT	1946765865
SNP_P4_27006_35788873	NC_021161.1	Ca_kabuli_chr02	35788873	TT	CC	1946765867
SNP_P4_27008_35805122	NC_021161.1	Ca_kabuli_chr02	35805122	CC	TT	1946765869
SNP_P4_27009_35807108	NC_021161.1	Ca_kabuli_chr02	35807108	TT	GG	1946765872
SNP_P4_27011_35815989	NC_021161.1	Ca_kabuli_chr02	35815989	TT	AA	1946765874
SNP_P4_27012_35815991	NC_021161.1	Ca_kabuli_chr02	35815991	TT	AA	1946765876
SNP_P4_27013_35818502	NC_021161.1	Ca_kabuli_chr02	35818502	AA	CC	1946765878
SNP_P4_27017_35843669	NC_021161.1	Ca_kabuli_chr02	35843669	CC	TT	1946765880
SNP_P4_27018_35843671	NC_021161.1	Ca_kabuli_chr02	35843671	TT	CC	1946765882
SNP_P4_27019_35843728	NC_021161.1	Ca_kabuli_chr02	35843728	GG	TT	1946765884
SNP_P4_27022_35845806	NC_021161.1	Ca_kabuli_chr02	35845806	CC	TT	1946765886
SNP_P4_27023_35846209	NC_021161.1	Ca_kabuli_chr02	35846209	GG	AA	1946765888
SNP_P4_27024_35846235	NC_021161.1	Ca_kabuli_chr02	35846235	TT	AA	1946765890
SNP_P4_27025_35846342	NC_021161.1	Ca_kabuli_chr02	35846342	GG	AA	1946765892
SNP_P4_27026_35846370	NC_021161.1	Ca_kabuli_chr02	35846370	GG	AA	1946765894
SNP_P4_27027_35846473	NC_021161.1	Ca_kabuli_chr02	35846473	TT	CC	1946765896
SNP_P4_27028_35846506	NC_021161.1	Ca_kabuli_chr02	35846506	GG	AA	1946765898
SNP_P4_27030_35846656	NC_021161.1	Ca_kabuli_chr02	35846656	TT	CC	1946765900
SNP_P4_27031_35847026	NC_021161.1	Ca_kabuli_chr02	35847026	TT	CC	1946765902
SNP_P4_27032_35847289	NC_021161.1	Ca_kabuli_chr02	35847289	AA	GG	1946765904
SNP_P4_27033_35848476	NC_021161.1	Ca_kabuli_chr02	35848476	CC	AA	1946765906
SNP_P4_27034_35848491	NC_021161.1	Ca_kabuli_chr02	35848491	TT	CC	1946765908
SNP_P4_27035_35849334	NC_021161.1	Ca_kabuli_chr02	35849334	GG	TT	1946765910
SNP_P4_27036_35850294	NC_021161.1	Ca_kabuli_chr02	35850294	CC	TT	1946765912
SNP_P4_27037_35852656	NC_021161.1	Ca_kabuli_chr02	35852656	AA	GG	1946765914
SNP_P4_27038_35852662	NC_021161.1	Ca_kabuli_chr02	35852662	AA	GG	1946765916
SNP_P4_27039_35852689	NC_021161.1	Ca_kabuli_chr02	35852689	CC	AA	1946765918
SNP_P4_27040_35853217	NC_021161.1	Ca_kabuli_chr02	35853217	CC	TT	1946765920

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_27044_35853717	NC_021161.1	Ca_kabuli_chr02	35853717	AA	GG	1946765927
SNP_P4_27045_35853746	NC_021161.1	Ca_kabuli_chr02	35853746	GG	AA	1946765929
SNP_P4_27046_35854776	NC_021161.1	Ca_kabuli_chr02	35854776	CC	TT	1946765931
SNP_P4_27048_35855097	NC_021161.1	Ca_kabuli_chr02	35855097	CC	TT	1946765933
SNP_P4_27050_35855430	NC_021161.1	Ca_kabuli_chr02	35855430	AA	GG	1946765935
SNP_P4_27052_35855737	NC_021161.1	Ca_kabuli_chr02	35855737	GG	AA	1946765937
SNP_P4_27053_35855840	NC_021161.1	Ca_kabuli_chr02	35855840	AA	GG	1946765939
SNP_P4_27055_35856147	NC_021161.1	Ca_kabuli_chr02	35856147	CC	TT	1946765941
SNP_P4_27056_35856834	NC_021161.1	Ca_kabuli_chr02	35856834	CC	TT	1946765943
SNP_P4_27057_35856915	NC_021161.1	Ca_kabuli_chr02	35856915	GG	TT	1946765945
SNP_P4_27059_35858345	NC_021161.1	Ca_kabuli_chr02	35858345	AA	GG	1946765947
SNP_P4_27061_35858664	NC_021161.1	Ca_kabuli_chr02	35858664	GG	AA	1946765949
SNP_P4_27062_35858692	NC_021161.1	Ca_kabuli_chr02	35858692	AA	GG	1946765951
SNP_P4_27063_35861771	NC_021161.1	Ca_kabuli_chr02	35861771	AA	GG	1946765953
SNP_P4_27064_35862044	NC_021161.1	Ca_kabuli_chr02	35862044	AA	GG	1946765955
SNP_P4_27065_35862106	NC_021161.1	Ca_kabuli_chr02	35862106	GG	CC	1946765957
SNP_P4_27066_35862325	NC_021161.1	Ca_kabuli_chr02	35862325	CC	TT	1946765959
SNP_P4_27067_35863150	NC_021161.1	Ca_kabuli_chr02	35863150	GG	AA	1946765962
SNP_P4_27068_35863854	NC_021161.1	Ca_kabuli_chr02	35863854	AA	GG	1946765964
SNP_P4_27069_35863856	NC_021161.1	Ca_kabuli_chr02	35863856	AA	TT	1946765966
SNP_P4_27071_35865416	NC_021161.1	Ca_kabuli_chr02	35865416	CC	TT	1946765968
SNP_P4_27072_35866046	NC_021161.1	Ca_kabuli_chr02	35866046	GG	AA	1946765970
SNP_P4_27074_35867782	NC_021161.1	Ca_kabuli_chr02	35867782	GG	CC	1946765972
SNP_P4_27075_35869959	NC_021161.1	Ca_kabuli_chr02	35869959	AA	TT	1946765974
SNP_P4_27076_35870350	NC_021161.1	Ca_kabuli_chr02	35870350	GG	AA	1946765976
SNP_P4_27077_35870813	NC_021161.1	Ca_kabuli_chr02	35870813	CC	TT	1946765978
SNP_P4_27079_35872078	NC_021161.1	Ca_kabuli_chr02	35872078	GG	CC	1946765980
SNP_P4_27080_35872125	NC_021161.1	Ca_kabuli_chr02	35872125	TT	CC	1946765983
SNP_P4_27081_35872326	NC_021161.1	Ca_kabuli_chr02	35872326	AA	GG	1946765984
SNP_P4_27082_35872420	NC_021161.1	Ca_kabuli_chr02	35872420	GG	AA	1946765986
SNP_P4_27084_35877733	NC_021161.1	Ca_kabuli_chr02	35877733	GG	AA	1946765988
SNP_P4_27085_35878088	NC_021161.1	Ca_kabuli_chr02	35878088	GG	AA	1946765990
SNP_P4_27086_35878257	NC_021161.1	Ca_kabuli_chr02	35878257	TT	CC	1946765992
SNP_P4_27087_35878302	NC_021161.1	Ca_kabuli_chr02	35878302	CC	TT	1946765994
SNP_P4_27088_35878342	NC_021161.1	Ca_kabuli_chr02	35878342	TT	GG	1946765997
SNP_P4_27089_35878458	NC_021161.1	Ca_kabuli_chr02	35878458	TT	AA	1946765999
SNP_P4_27090_35878527	NC_021161.1	Ca_kabuli_chr02	35878527	TT	AA	1946766001
SNP_P4_27091_35878767	NC_021161.1	Ca_kabuli_chr02	35878767	CC	GG	1946766003
SNP_P4_27092_35878776	NC_021161.1	Ca_kabuli_chr02	35878776	AA	TT	1946766005
SNP_P4_27093_35879504	NC_021161.1	Ca_kabuli_chr02	35879504	TT	CC	1946766007

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_27095_35882487	NC_021161.1	Ca_kabuli_chr02	35882487	TT	GG	1946766011
SNP_P4_27096_35883830	NC_021161.1	Ca_kabuli_chr02	35883830	AA	GG	1946766013
SNP_P4_27098_35885286	NC_021161.1	Ca_kabuli_chr02	35885286	CC	GG	1946766015
SNP_P4_27100_35885867	NC_021161.1	Ca_kabuli_chr02	35885867	GG	AA	1946766017
SNP_P4_27101_35886720	NC_021161.1	Ca_kabuli_chr02	35886720	AA	GG	1946766019
SNP_P4_27102_35888908	NC_021161.1	Ca_kabuli_chr02	35888908	CC	TT	1946766021
SNP_P4_27103_35890289	NC_021161.1	Ca_kabuli_chr02	35890289	GG	TT	1946766023
SNP_P4_27105_35892513	NC_021161.1	Ca_kabuli_chr02	35892513	AA	CC	1946766025
SNP_P4_27107_35893772	NC_021161.1	Ca_kabuli_chr02	35893772	GG	AA	1946766027
SNP_P4_27109_35893991	NC_021161.1	Ca_kabuli_chr02	35893991	GG	TT	1946766029
SNP_P4_27110_35894905	NC_021161.1	Ca_kabuli_chr02	35894905	CC	TT	1946766031
SNP_P4_27111_35895071	NC_021161.1	Ca_kabuli_chr02	35895071	GG	TT	1946766033
SNP_P4_27112_35895587	NC_021161.1	Ca_kabuli_chr02	35895587	AA	CC	1946766035
SNP_P4_27114_35895895	NC_021161.1	Ca_kabuli_chr02	35895895	CC	TT	1946766037
SNP_P4_27115_35897395	NC_021161.1	Ca_kabuli_chr02	35897395	GG	CC	1946766039
SNP_P4_27116_35898735	NC_021161.1	Ca_kabuli_chr02	35898735	TT	CC	1946766041
SNP_P4_27117_35898856	NC_021161.1	Ca_kabuli_chr02	35898856	CC	AA	1946766043
SNP_P4_27118_35898940	NC_021161.1	Ca_kabuli_chr02	35898940	GG	TT	1946766045
SNP_P4_27119_35901298	NC_021161.1	Ca_kabuli_chr02	35901298	TT	AA	1946766047
SNP_P4_27120_35901559	NC_021161.1	Ca_kabuli_chr02	35901559	TT	CC	1946766049
SNP_P4_27121_35903112	NC_021161.1	Ca_kabuli_chr02	35903112	TT	CC	1946766051
SNP_P4_27122_35906664	NC_021161.1	Ca_kabuli_chr02	35906664	GG	AA	1946766053
SNP_P4_27123_35908649	NC_021161.1	Ca_kabuli_chr02	35908649	CC	TT	1946766055
SNP_P4_27125_35910047	NC_021161.1	Ca_kabuli_chr02	35910047	GG	AA	1946766057
SNP_P4_27126_35910081	NC_021161.1	Ca_kabuli_chr02	35910081	TT	AA	1946766059
SNP_P4_27127_35910083	NC_021161.1	Ca_kabuli_chr02	35910083	TT	CC	1946766061
SNP_P4_27128_35911272	NC_021161.1	Ca_kabuli_chr02	35911272	CC	TT	1946766063
SNP_P4_27129_35911850	NC_021161.1	Ca_kabuli_chr02	35911850	TT	GG	1946766065
SNP_P4_27130_35912613	NC_021161.1	Ca_kabuli_chr02	35912613	CC	TT	1946766067
SNP_P4_27131_35912764	NC_021161.1	Ca_kabuli_chr02	35912764	TT	CC	1946766069
SNP_P4_27132_35912798	NC_021161.1	Ca_kabuli_chr02	35912798	TT	CC	1946766071
SNP_P4_27133_35912806	NC_021161.1	Ca_kabuli_chr02	35912806	TT	CC	1946766073
SNP_P4_27134_35912833	NC_021161.1	Ca_kabuli_chr02	35912833	CC	TT	1946766075
SNP_P4_27135_35912848	NC_021161.1	Ca_kabuli_chr02	35912848	AA	GG	1946766077
SNP_P4_27136_35912849	NC_021161.1	Ca_kabuli_chr02	35912849	AA	TT	1946766079
SNP_P4_27137_35912851	NC_021161.1	Ca_kabuli_chr02	35912851	TT	CC	1946766081
SNP_P4_27138_35912898	NC_021161.1	Ca_kabuli_chr02	35912898	CC	TT	1946766083
SNP_P4_27139_35912935	NC_021161.1	Ca_kabuli_chr02	35912935	TT	CC	1946766085
SNP_P4_27140_35913790	NC_021161.1	Ca_kabuli_chr02	35913790	TT	CC	1946766087
SNP_P4_27141_35913819	NC_021161.1	Ca_kabuli_chr02	35913819	AA	GG	1946766089
SNP_P4_27142_35913841	NC_021161.1	Ca_kabuli_chr02	35913841	CC	AA	1946766091

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_27145_35918457	NC_021161.1	Ca_kabuli_chr02	35918457	AA	CC	1946766095
SNP_P4_27147_35918749	NC_021161.1	Ca_kabuli_chr02	35918749	GG	AA	1946766097
SNP_P4_27148_35918753	NC_021161.1	Ca_kabuli_chr02	35918753	TT	CC	1946766099
SNP_P4_27149_35918778	NC_021161.1	Ca_kabuli_chr02	35918778	GG	AA	1946766102
SNP_P4_27150_35919018	NC_021161.1	Ca_kabuli_chr02	35919018	CC	AA	1946766104
SNP_P4_27151_35919032	NC_021161.1	Ca_kabuli_chr02	35919032	AA	GG	1946766106
SNP_P4_27152_35919036	NC_021161.1	Ca_kabuli_chr02	35919036	AA	TT	1946766108
SNP_P4_27153_35921883	NC_021161.1	Ca_kabuli_chr02	35921883	AA	GG	1946766110
SNP_P4_27154_35921897	NC_021161.1	Ca_kabuli_chr02	35921897	CC	TT	1946766112
SNP_P4_27155_35922952	NC_021161.1	Ca_kabuli_chr02	35922952	GG	AA	1946766114
SNP_P4_27156_35922955	NC_021161.1	Ca_kabuli_chr02	35922955	AA	GG	1946766116
SNP_P4_27157_35922956	NC_021161.1	Ca_kabuli_chr02	35922956	TT	CC	1946766118
SNP_P4_27158_35923166	NC_021161.1	Ca_kabuli_chr02	35923166	AA	TT	1946766120
SNP_P4_27159_35924165	NC_021161.1	Ca_kabuli_chr02	35924165	TT	CC	1946766122
SNP_P4_27161_35924206	NC_021161.1	Ca_kabuli_chr02	35924206	CC	TT	1946766124
SNP_P4_27162_35924229	NC_021161.1	Ca_kabuli_chr02	35924229	TT	CC	1946766126
SNP_P4_27163_35924367	NC_021161.1	Ca_kabuli_chr02	35924367	CC	TT	1946766128
SNP_P4_27164_35924387	NC_021161.1	Ca_kabuli_chr02	35924387	CC	TT	1946766130
SNP_P4_27165_35924402	NC_021161.1	Ca_kabuli_chr02	35924402	GG	AA	1946766133
SNP_P4_27166_35924768	NC_021161.1	Ca_kabuli_chr02	35924768	AA	TT	1946766135
SNP_P4_27168_35925884	NC_021161.1	Ca_kabuli_chr02	35925884	CC	TT	1946766137
SNP_P4_27170_35926277	NC_021161.1	Ca_kabuli_chr02	35926277	AA	TT	1946766139
SNP_P4_27172_35931510	NC_021161.1	Ca_kabuli_chr02	35931510	TT	AA	1946766141
SNP_P4_27173_35931512	NC_021161.1	Ca_kabuli_chr02	35931512	TT	CC	1946766143
SNP_P4_27174_35931514	NC_021161.1	Ca_kabuli_chr02	35931514	GG	CC	1946766145
SNP_P4_27175_35931523	NC_021161.1	Ca_kabuli_chr02	35931523	TT	AA	1946766147
SNP_P4_27176_35934039	NC_021161.1	Ca_kabuli_chr02	35934039	TT	GG	1946766149
SNP_P4_27177_35934321	NC_021161.1	Ca_kabuli_chr02	35934321	CC	AA	1946766151
SNP_P4_27178_35934339	NC_021161.1	Ca_kabuli_chr02	35934339	CC	TT	1946766153
SNP_P4_27179_35934342	NC_021161.1	Ca_kabuli_chr02	35934342	CC	TT	1946766155
SNP_P4_27181_35937584	NC_021161.1	Ca_kabuli_chr02	35937584	AA	CC	1946766156
SNP_P4_27183_35939422	NC_021161.1	Ca_kabuli_chr02	35939422	CC	GG	1946766158
SNP_P4_27186_35940418	NC_021161.1	Ca_kabuli_chr02	35940418	CC	TT	1946766160
SNP_P4_27187_35940425	NC_021161.1	Ca_kabuli_chr02	35940425	CC	TT	1946766162
SNP_P4_27188_35941395	NC_021161.1	Ca_kabuli_chr02	35941395	TT	GG	1946766164
SNP_P4_27189_35941410	NC_021161.1	Ca_kabuli_chr02	35941410	GG	AA	1946766166
SNP_P4_27190_35941412	NC_021161.1	Ca_kabuli_chr02	35941412	CC	AA	1946766168
SNP_P4_27191_35941600	NC_021161.1	Ca_kabuli_chr02	35941600	GG	AA	1946766170
SNP_P4_27192_35941665	NC_021161.1	Ca_kabuli_chr02	35941665	GG	AA	1946766172
SNP_P4_27193_35941670	NC_021161.1	Ca_kabuli_chr02	35941670	TT	CC	1946766174
SNP_P4_27194_35941690	NC_021161.1	Ca_kabuli_chr02	35941690	AA	GG	1946766176

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_27196_35941714	NC_021161.1	Ca_kabuli_chr02	35941714	AA	GG	1946766180
SNP_P4_27197_35941721	NC_021161.1	Ca_kabuli_chr02	35941721	AA	GG	1946766182
SNP_P4_27198_35942042	NC_021161.1	Ca_kabuli_chr02	35942042	AA	GG	1946766184
SNP_P4_27199_35942063	NC_021161.1	Ca_kabuli_chr02	35942063	GG	AA	1946766186
SNP_P4_27200_35942072	NC_021161.1	Ca_kabuli_chr02	35942072	TT	CC	1946766188
SNP_P4_27201_35942561	NC_021161.1	Ca_kabuli_chr02	35942561	CC	TT	1946766190
SNP_P4_27202_35942578	NC_021161.1	Ca_kabuli_chr02	35942578	AA	GG	1946766192
SNP_P4_27203_35944225	NC_021161.1	Ca_kabuli_chr02	35944225	TT	AA	1946766194
SNP_P4_27204_35944781	NC_021161.1	Ca_kabuli_chr02	35944781	CC	TT	1946766196
SNP_P4_27205_35944799	NC_021161.1	Ca_kabuli_chr02	35944799	GG	AA	1946766198
SNP_P4_27206_35944816	NC_021161.1	Ca_kabuli_chr02	35944816	AA	CC	1946766200
SNP_P4_27207_35944831	NC_021161.1	Ca_kabuli_chr02	35944831	CC	TT	1946766202
SNP_P4_27208_35944834	NC_021161.1	Ca_kabuli_chr02	35944834	CC	TT	1946766204
SNP_P4_27209_35944855	NC_021161.1	Ca_kabuli_chr02	35944855	CC	TT	1946766206
SNP_P4_27210_35944875	NC_021161.1	Ca_kabuli_chr02	35944875	CC	GG	1946766208
SNP_P4_27211_35944897	NC_021161.1	Ca_kabuli_chr02	35944897	TT	AA	1946766210
SNP_P4_27212_35944938	NC_021161.1	Ca_kabuli_chr02	35944938	TT	AA	1946766212
SNP_P4_27213_35944958	NC_021161.1	Ca_kabuli_chr02	35944958	TT	CC	1946766214
SNP_P4_27215_35945012	NC_021161.1	Ca_kabuli_chr02	35945012	AA	GG	1946766216
SNP_P4_27216_35945028	NC_021161.1	Ca_kabuli_chr02	35945028	TT	AA	1946766218
SNP_P4_27217_35945051	NC_021161.1	Ca_kabuli_chr02	35945051	CC	AA	1946766220
SNP_P4_27218_35945069	NC_021161.1	Ca_kabuli_chr02	35945069	CC	TT	1946766222
SNP_P4_27219_35945086	NC_021161.1	Ca_kabuli_chr02	35945086	AA	TT	1946766224
SNP_P4_27220_35945091	NC_021161.1	Ca_kabuli_chr02	35945091	CC	AA	1946766226
SNP_P4_27222_35945161	NC_021161.1	Ca_kabuli_chr02	35945161	AA	TT	1946766228
SNP_P4_27223_35945206	NC_021161.1	Ca_kabuli_chr02	35945206	AA	TT	1946766230
SNP_P4_27224_35945220	NC_021161.1	Ca_kabuli_chr02	35945220	AA	CC	1946766232
SNP_P4_27225_35945284	NC_021161.1	Ca_kabuli_chr02	35945284	AA	GG	1946766234
SNP_P4_27226_35945287	NC_021161.1	Ca_kabuli_chr02	35945287	AA	GG	1946766236
SNP_P4_27227_35945293	NC_021161.1	Ca_kabuli_chr02	35945293	AA	GG	1946766238
SNP_P4_27229_35953978	NC_021161.1	Ca_kabuli_chr02	35953978	GG	AA	1946766240
SNP_P4_27230_35956164	NC_021161.1	Ca_kabuli_chr02	35956164	CC	TT	1946766242
SNP_P4_27231_35956365	NC_021161.1	Ca_kabuli_chr02	35956365	CC	AA	1946766244
SNP_P4_27232_35956417	NC_021161.1	Ca_kabuli_chr02	35956417	CC	TT	1946766246
SNP_P4_27233_35956467	NC_021161.1	Ca_kabuli_chr02	35956467	GG	AA	1946766248
SNP_P4_27234_35956477	NC_021161.1	Ca_kabuli_chr02	35956477	CC	TT	1946766250
SNP_P4_27235_35956479	NC_021161.1	Ca_kabuli_chr02	35956479	TT	CC	1946766252
SNP_P4_27236_35956845	NC_021161.1	Ca_kabuli_chr02	35956845	AA	CC	1946766254
SNP_P4_27238_35957293	NC_021161.1	Ca_kabuli_chr02	35957293	AA	TT	1946766257
SNP_P4_27239_35957404	NC_021161.1	Ca_kabuli_chr02	35957404	CC	TT	1946766259
SNP_P4_27240_35957457	NC_021161.1	Ca_kabuli_chr02	35957457	GG	TT	1946766261

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_27242_35960436	NC_021161.1	Ca_kabuli_chr02	35960436	CC	AA	1946766265
SNP_P4_27243_35960451	NC_021161.1	Ca_kabuli_chr02	35960451	CC	TT	1946766267
SNP_P4_27244_35960457	NC_021161.1	Ca_kabuli_chr02	35960457	CC	TT	1946766269
SNP_P4_27246_35961614	NC_021161.1	Ca_kabuli_chr02	35961614	TT	CC	1946766271
SNP_P4_27248_35961900	NC_021161.1	Ca_kabuli_chr02	35961900	CC	TT	1946766273
SNP_P4_27250_35962207	NC_021161.1	Ca_kabuli_chr02	35962207	TT	CC	1946766275
SNP_P4_27251_35962426	NC_021161.1	Ca_kabuli_chr02	35962426	TT	CC	1946766277
SNP_P4_27252_35962438	NC_021161.1	Ca_kabuli_chr02	35962438	AA	GG	1946766279
SNP_P4_27255_35962749	NC_021161.1	Ca_kabuli_chr02	35962749	TT	AA	1946766281
SNP_P4_27256_35962752	NC_021161.1	Ca_kabuli_chr02	35962752	TT	AA	1946766284
SNP_P4_27257_35962754	NC_021161.1	Ca_kabuli_chr02	35962754	GG	TT	1946766286
SNP_P4_27258_35962789	NC_021161.1	Ca_kabuli_chr02	35962789	TT	AA	1946766288
SNP_P4_27259_35963031	NC_021161.1	Ca_kabuli_chr02	35963031	CC	GG	1946766290
SNP_P4_27260_35963039	NC_021161.1	Ca_kabuli_chr02	35963039	AA	GG	1946766292
SNP_P4_27261_35963041	NC_021161.1	Ca_kabuli_chr02	35963041	TT	CC	1946766294
SNP_P4_27262_35963074	NC_021161.1	Ca_kabuli_chr02	35963074	GG	CC	1946766296
SNP_P4_27263_35963132	NC_021161.1	Ca_kabuli_chr02	35963132	CC	TT	1946766298
SNP_P4_27264_35963474	NC_021161.1	Ca_kabuli_chr02	35963474	AA	GG	1946766300
SNP_P4_27265_35963501	NC_021161.1	Ca_kabuli_chr02	35963501	TT	CC	1946766302
SNP_P4_27266_35963625	NC_021161.1	Ca_kabuli_chr02	35963625	GG	AA	1946766304
SNP_P4_27267_35963644	NC_021161.1	Ca_kabuli_chr02	35963644	GG	AA	1946766306
SNP_P4_27268_35963647	NC_021161.1	Ca_kabuli_chr02	35963647	CC	GG	1946766308
SNP_P4_27269_35963652	NC_021161.1	Ca_kabuli_chr02	35963652	GG	AA	1946766310
SNP_P4_27270_35963663	NC_021161.1	Ca_kabuli_chr02	35963663	CC	TT	1946766312
SNP_P4_27271_35963695	NC_021161.1	Ca_kabuli_chr02	35963695	GG	AA	1946766314
SNP_P4_27272_35963726	NC_021161.1	Ca_kabuli_chr02	35963726	AA	CC	1946766316
SNP_P4_27273_35963756	NC_021161.1	Ca_kabuli_chr02	35963756	AA	TT	1946766318
SNP_P4_27274_35964403	NC_021161.1	Ca_kabuli_chr02	35964403	CC	TT	1946766320
SNP_P4_27275_35964454	NC_021161.1	Ca_kabuli_chr02	35964454	GG	AA	1946766322
SNP_P4_27276_35964740	NC_021161.1	Ca_kabuli_chr02	35964740	AA	TT	1946766324
SNP_P4_27277_35965550	NC_021161.1	Ca_kabuli_chr02	35965550	AA	TT	1946766326
SNP_P4_27279_35965766	NC_021161.1	Ca_kabuli_chr02	35965766	AA	TT	1946766328
SNP_P4_27282_35966311	NC_021161.1	Ca_kabuli_chr02	35966311	GG	AA	1946766330
SNP_P4_27283_35966373	NC_021161.1	Ca_kabuli_chr02	35966373	AA	GG	1946766332
SNP_P4_27284_35966525	NC_021161.1	Ca_kabuli_chr02	35966525	CC	AA	1946766334
SNP_P4_27285_35967032	NC_021161.1	Ca_kabuli_chr02	35967032	AA	TT	1946766336
SNP_P4_27287_35967430	NC_021161.1	Ca_kabuli_chr02	35967430	GG	AA	1946766338
SNP_P4_27288_35967745	NC_021161.1	Ca_kabuli_chr02	35967745	GG	AA	1946766340
SNP_P4_27291_35969782	NC_021161.1	Ca_kabuli_chr02	35969782	AA	TT	1946766342
SNP_P4_27292_35970463	NC_021161.1	Ca_kabuli_chr02	35970463	CC	TT	1946766344
SNP_P4_27293_35971397	NC_021161.1	Ca_kabuli_chr02	35971397	GG	CC	1946766346

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_27295_35971605	NC_021161.1	Ca_kabuli_chr02	35971605	GG	AA	1946766350
SNP_P4_27297_35971876	NC_021161.1	Ca_kabuli_chr02	35971876	TT	CC	1946766352
SNP_P4_27298_35971889	NC_021161.1	Ca_kabuli_chr02	35971889	CC	TT	1946766354
SNP_P4_27299_35972248	NC_021161.1	Ca_kabuli_chr02	35972248	AA	TT	1946766356
SNP_P4_27300_35972369	NC_021161.1	Ca_kabuli_chr02	35972369	AA	CC	1946766358
SNP_P4_27301_35972661	NC_021161.1	Ca_kabuli_chr02	35972661	CC	GG	1946766360
SNP_P4_27302_35972690	NC_021161.1	Ca_kabuli_chr02	35972690	GG	AA	1946766362
SNP_P4_27303_35972712	NC_021161.1	Ca_kabuli_chr02	35972712	AA	GG	1946766364
SNP_P4_27304_35972717	NC_021161.1	Ca_kabuli_chr02	35972717	GG	CC	1946766366
SNP_P4_27305_35973580	NC_021161.1	Ca_kabuli_chr02	35973580	GG	AA	1946766368
SNP_P4_27306_35973863	NC_021161.1	Ca_kabuli_chr02	35973863	AA	GG	1946766370
SNP_P4_27307_35974964	NC_021161.1	Ca_kabuli_chr02	35974964	TT	CC	1946766372
SNP_P4_27308_35976021	NC_021161.1	Ca_kabuli_chr02	35976021	GG	AA	1946766374
SNP_P4_27309_35982956	NC_021161.1	Ca_kabuli_chr02	35982956	GG	AA	1946766376
SNP_P4_27310_35983180	NC_021161.1	Ca_kabuli_chr02	35983180	TT	GG	1946766378
SNP_P4_27311_35983347	NC_021161.1	Ca_kabuli_chr02	35983347	AA	GG	1946766380
SNP_P4_27312_35983700	NC_021161.1	Ca_kabuli_chr02	35983700	TT	AA	1946766382
SNP_P4_27313_35983754	NC_021161.1	Ca_kabuli_chr02	35983754	GG	AA	1946766384
SNP_P4_27314_35983817	NC_021161.1	Ca_kabuli_chr02	35983817	AA	GG	1946766386
SNP_P4_27315_35983885	NC_021161.1	Ca_kabuli_chr02	35983885	GG	AA	1946766388
SNP_P4_27316_35983903	NC_021161.1	Ca_kabuli_chr02	35983903	TT	CC	1946766390
SNP_P4_27317_35983927	NC_021161.1	Ca_kabuli_chr02	35983927	AA	CC	1946766392
SNP_P4_27318_35984090	NC_021161.1	Ca_kabuli_chr02	35984090	AA	CC	1946766394
SNP_P4_27319_35986927	NC_021161.1	Ca_kabuli_chr02	35986927	AA	TT	1946766396
SNP_P4_27320_35986931	NC_021161.1	Ca_kabuli_chr02	35986931	GG	TT	1946766398
SNP_P4_27321_35987048	NC_021161.1	Ca_kabuli_chr02	35987048	AA	GG	1946766400
SNP_P4_27322_35987071	NC_021161.1	Ca_kabuli_chr02	35987071	GG	AA	1946766402
SNP_P4_27323_35987920	NC_021161.1	Ca_kabuli_chr02	35987920	CC	AA	1946766404
SNP_P4_27325_35988275	NC_021161.1	Ca_kabuli_chr02	35988275	GG	CC	1946766406
SNP_P4_27326_35988931	NC_021161.1	Ca_kabuli_chr02	35988931	TT	CC	1946766408
SNP_P4_27327_35991444	NC_021161.1	Ca_kabuli_chr02	35991444	TT	GG	1946766410
SNP_P4_27328_35992815	NC_021161.1	Ca_kabuli_chr02	35992815	CC	GG	1946766412
SNP_P4_27331_35995925	NC_021161.1	Ca_kabuli_chr02	35995925	CC	AA	1946766414
SNP_P4_27333_35996462	NC_021161.1	Ca_kabuli_chr02	35996462	GG	AA	1946766416
SNP_P4_27334_35996492	NC_021161.1	Ca_kabuli_chr02	35996492	TT	CC	1946766418
SNP_P4_27335_35996702	NC_021161.1	Ca_kabuli_chr02	35996702	GG	TT	1946766420
SNP_P4_27336_35996703	NC_021161.1	Ca_kabuli_chr02	35996703	GG	AA	1946766422
SNP_P4_27337_35996707	NC_021161.1	Ca_kabuli_chr02	35996707	AA	GG	1946766424
SNP_P4_27338_35996722	NC_021161.1	Ca_kabuli_chr02	35996722	TT	CC	1946766426
SNP_P4_27339_35996734	NC_021161.1	Ca_kabuli_chr02	35996734	GG	AA	1946766428
SNP_P4_27340_35996740	NC_021161.1	Ca_kabuli_chr02	35996740	TT	CC	1946766430

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_27342_35997107	NC_021161.1	Ca_kabuli_chr02	35997107	TT	GG	1946766434
SNP_P4_27343_35997210	NC_021161.1	Ca_kabuli_chr02	35997210	AA	CC	1946766436
SNP_P4_27344_35997258	NC_021161.1	Ca_kabuli_chr02	35997258	AA	GG	1946766438
SNP_P4_27345_35997272	NC_021161.1	Ca_kabuli_chr02	35997272	CC	TT	1946766440
SNP_P4_27346_35997273	NC_021161.1	Ca_kabuli_chr02	35997273	TT	CC	1946766442
SNP_P4_27347_35997279	NC_021161.1	Ca_kabuli_chr02	35997279	TT	CC	1946766444
SNP_P4_27348_35997288	NC_021161.1	Ca_kabuli_chr02	35997288	CC	TT	1946766446
SNP_P4_27349_35997291	NC_021161.1	Ca_kabuli_chr02	35997291	CC	TT	1946766448
SNP_P4_27350_35997297	NC_021161.1	Ca_kabuli_chr02	35997297	TT	CC	1946766450
SNP_P4_27351_35997722	NC_021161.1	Ca_kabuli_chr02	35997722	AA	GG	1946766452
SNP_P4_27352_35999167	NC_021161.1	Ca_kabuli_chr02	35999167	AA	TT	1946766454
SNP_P4_27353_35999168	NC_021161.1	Ca_kabuli_chr02	35999168	GG	TT	1946766456
SNP_P4_27354_35999218	NC_021161.1	Ca_kabuli_chr02	35999218	AA	GG	1946766458
SNP_P4_27355_35999875	NC_021161.1	Ca_kabuli_chr02	35999875	TT	AA	1946766460
SNP_P4_27357_36000786	NC_021161.1	Ca_kabuli_chr02	36000786	CC	TT	1946766462
SNP_P4_27359_36001281	NC_021161.1	Ca_kabuli_chr02	36001281	TT	CC	1946766464
SNP_P4_27360_36001400	NC_021161.1	Ca_kabuli_chr02	36001400	TT	GG	1946766466
SNP_P4_27361_36001489	NC_021161.1	Ca_kabuli_chr02	36001489	AA	GG	1946766468
SNP_P4_27363_36001687	NC_021161.1	Ca_kabuli_chr02	36001687	CC	GG	1946766470
SNP_P4_27364_36001842	NC_021161.1	Ca_kabuli_chr02	36001842	GG	TT	1946766472
SNP_P4_27365_36001845	NC_021161.1	Ca_kabuli_chr02	36001845	CC	TT	1946766475
SNP_P4_27366_36004337	NC_021161.1	Ca_kabuli_chr02	36004337	GG	AA	1946766477
SNP_P4_27367_36004393	NC_021161.1	Ca_kabuli_chr02	36004393	TT	CC	1946766479
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SNP_P4_27372_36007588	NC_021161.1	Ca_kabuli_chr02	36007588	AA	CC	1946766483
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SNP_P4_27374_36013414	NC_021161.1	Ca_kabuli_chr02	36013414	TT	GG	1946766487
SNP_P4_27375_36013415	NC_021161.1	Ca_kabuli_chr02	36013415	AA	CC	1946766489
SNP_P4_27376_36015127	NC_021161.1	Ca_kabuli_chr02	36015127	CC	TT	1946766491
SNP_P4_27377_36016362	NC_021161.1	Ca_kabuli_chr02	36016362	GG	AA	1946766493
SNP_P4_27378_36017591	NC_021161.1	Ca_kabuli_chr02	36017591	AA	CC	1946766495
SNP_P4_27379_36020350	NC_021161.1	Ca_kabuli_chr02	36020350	CC	GG	1946766497
SNP_P4_27380_36020353	NC_021161.1	Ca_kabuli_chr02	36020353	AA	TT	1946766499
SNP_P4_27381_36020365	NC_021161.1	Ca_kabuli_chr02	36020365	CC	GG	1946766501
SNP_P4_27382_36025477	NC_021161.1	Ca_kabuli_chr02	36025477	CC	TT	1946766503
SNP_P4_27383_36025503	NC_021161.1	Ca_kabuli_chr02	36025503	GG	CC	1946766506
SNP_P4_27384_36026063	NC_021161.1	Ca_kabuli_chr02	36026063	TT	GG	1946766508
SNP_P4_27385_36028910	NC_021161.1	Ca_kabuli_chr02	36028910	AA	GG	1946766510
SNP_P4_27386_36028984	NC_021161.1	Ca_kabuli_chr02	36028984	TT	CC	1946766512
SNP_P4_27387_36029132	NC_021161.1	Ca_kabuli_chr02	36029132	GG	AA	1946766514
SNP_P4_27388_36032786	NC_021161.1	Ca_kabuli_chr02	36032786	TT	GG	1946766516

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_27392_36040730	NC_021161.1	Ca_kabuli_chr02	36040730	AA	GG	1946766520
SNP_P4_27393_36040736	NC_021161.1	Ca_kabuli_chr02	36040736	GG	AA	1946766522
SNP_P4_27394_36040798	NC_021161.1	Ca_kabuli_chr02	36040798	AA	GG	1946766524
SNP_P4_27395_36040915	NC_021161.1	Ca_kabuli_chr02	36040915	AA	GG	1946766526
SNP_P4_27396_36040953	NC_021161.1	Ca_kabuli_chr02	36040953	AA	GG	1946766528
SNP_P4_27397_36040956	NC_021161.1	Ca_kabuli_chr02	36040956	CC	TT	1946766530
SNP_P4_27398_36041276	NC_021161.1	Ca_kabuli_chr02	36041276	AA	CC	1946766532
SNP_P4_27399_36041535	NC_021161.1	Ca_kabuli_chr02	36041535	AA	GG	1946766534
SNP_P4_27400_36041587	NC_021161.1	Ca_kabuli_chr02	36041587	CC	TT	1946766536
SNP_P4_27401_36041595	NC_021161.1	Ca_kabuli_chr02	36041595	GG	AA	1946766539
SNP_P4_27402_36046820	NC_021161.1	Ca_kabuli_chr02	36046820	AA	TT	1946766541
SNP_P4_27404_36048941	NC_021161.1	Ca_kabuli_chr02	36048941	TT	AA	1946766543
SNP_P4_27405_36049733	NC_021161.1	Ca_kabuli_chr02	36049733	GG	TT	1946766545
SNP_P4_27406_36052417	NC_021161.1	Ca_kabuli_chr02	36052417	GG	AA	1946766547
SNP_P4_27407_36052418	NC_021161.1	Ca_kabuli_chr02	36052418	AA	TT	1946766549
SNP_P4_27408_36058055	NC_021161.1	Ca_kabuli_chr02	36058055	AA	CC	1946766551
SNP_P4_27409_36059561	NC_021161.1	Ca_kabuli_chr02	36059561	GG	AA	1946766553
SNP_P4_27410_36060527	NC_021161.1	Ca_kabuli_chr02	36060527	TT	AA	1946766555
SNP_P4_27411_36064038	NC_021161.1	Ca_kabuli_chr02	36064038	TT	CC	1946766557
SNP_P4_27413_36065736	NC_021161.1	Ca_kabuli_chr02	36065736	AA	TT	1946766559
SNP_P4_27414_36066023	NC_021161.1	Ca_kabuli_chr02	36066023	TT	GG	1946766561
SNP_P4_27415_36068709	NC_021161.1	Ca_kabuli_chr02	36068709	GG	AA	1946766563
SNP_P4_27416_36069106	NC_021161.1	Ca_kabuli_chr02	36069106	TT	CC	1946766565
SNP_P4_27417_36069652	NC_021161.1	Ca_kabuli_chr02	36069652	TT	CC	1946766567
SNP_P4_27418_36072864	NC_021161.1	Ca_kabuli_chr02	36072864	AA	GG	1946766569
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SNP_P4_27421_36078621	NC_021161.1	Ca_kabuli_chr02	36078621	AA	GG	1946766573
SNP_P4_27422_36080161	NC_021161.1	Ca_kabuli_chr02	36080161	CC	GG	1946766575
SNP_P4_27423_36080252	NC_021161.1	Ca_kabuli_chr02	36080252	GG	AA	1946766577
SNP_P4_27424_36080402	NC_021161.1	Ca_kabuli_chr02	36080402	CC	TT	1946766579
SNP_P4_27425_36081170	NC_021161.1	Ca_kabuli_chr02	36081170	GG	AA	1946766581
SNP_P4_27426_36081766	NC_021161.1	Ca_kabuli_chr02	36081766	TT	AA	1946766583
SNP_P4_27427_36081790	NC_021161.1	Ca_kabuli_chr02	36081790	AA	GG	1946766585
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SNP_P4_27429_36083904	NC_021161.1	Ca_kabuli_chr02	36083904	AA	TT	1946766589
SNP_P4_27430_36084484	NC_021161.1	Ca_kabuli_chr02	36084484	GG	TT	1946766591
SNP_P4_27431_36093724	NC_021161.1	Ca_kabuli_chr02	36093724	GG	AA	1946766593
SNP_P4_27432_36093905	NC_021161.1	Ca_kabuli_chr02	36093905	TT	CC	1946766595
SNP_P4_27433_36093906	NC_021161.1	Ca_kabuli_chr02	36093906	CC	TT	1946766597
SNP_P4_27435_36094018	NC_021161.1	Ca_kabuli_chr02	36094018	CC	TT	1946766599
SNP_P4_27437_36108627	NC_021161.1	Ca_kabuli_chr02	36108627	GG	AA	1946766601

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_27439_36110761	NC_021161.1	Ca_kabuli_chr02	36110761	CC	TT	1946766606
SNP_P4_27440_36112415	NC_021161.1	Ca_kabuli_chr02	36112415	CC	TT	1946766608
SNP_P4_27441_36112939	NC_021161.1	Ca_kabuli_chr02	36112939	CC	TT	1946766610
SNP_P4_27442_36120826	NC_021161.1	Ca_kabuli_chr02	36120826	AA	TT	1946766612
SNP_P4_27443_36122851	NC_021161.1	Ca_kabuli_chr02	36122851	CC	TT	1946766614
SNP_P4_27444_36122875	NC_021161.1	Ca_kabuli_chr02	36122875	AA	TT	1946766616
SNP_P4_27445_36123691	NC_021161.1	Ca_kabuli_chr02	36123691	TT	CC	1946766618
SNP_P4_27447_36146587	NC_021161.1	Ca_kabuli_chr02	36146587	GG	AA	1946766620
SNP_P4_27449_36146719	NC_021161.1	Ca_kabuli_chr02	36146719	TT	CC	1946766622
SNP_P4_27450_36146853	NC_021161.1	Ca_kabuli_chr02	36146853	CC	TT	1946766624
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SNP_P4_27456_36162994	NC_021161.1	Ca_kabuli_chr02	36162994	CC	TT	1946766632
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SNP_P4_27460_36164452	NC_021161.1	Ca_kabuli_chr02	36164452	AA	GG	1946766638
SNP_P4_27462_36220043	NC_021161.1	Ca_kabuli_chr02	36220043	AA	GG	1946766640
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SNP_P4_27464_36280731	NC_021161.1	Ca_kabuli_chr02	36280731	AA	GG	1946766644
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SNP_P4_27467_36321367	NC_021161.1	Ca_kabuli_chr02	36321367	AA	CC	1946766648
SNP_P4_27468_36321382	NC_021161.1	Ca_kabuli_chr02	36321382	AA	TT	1946766650
SNP_P4_27469_36333450	NC_021161.1	Ca_kabuli_chr02	36333450	TT	AA	1946766652
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SNP_P4_27473_36413312	NC_021161.1	Ca_kabuli_chr02	36413312	AA	TT	1946766656
SNP_P4_27474_36421759	NC_021161.1	Ca_kabuli_chr02	36421759	CC	TT	1946766659
SNP_P4_27475_36451580	NC_021161.1	Ca_kabuli_chr02	36451580	GG	TT	1946766661
SNP_P4_27476_36463596	NC_021161.1	Ca_kabuli_chr02	36463596	TT	AA	1946766663
SNP_P4_27478_36464193	NC_021161.1	Ca_kabuli_chr02	36464193	AA	GG	1946766665
SNP_P4_27480_36489388	NC_021161.1	Ca_kabuli_chr02	36489388	TT	CC	1946766667
SNP_P4_27482_36503836	NC_021161.1	Ca_kabuli_chr02	36503836	CC	AA	1946766669
SNP_P4_27483_36513984	NC_021161.1	Ca_kabuli_chr02	36513984	GG	AA	1946766671
SNP_P4_27484_36521682	NC_021161.1	Ca_kabuli_chr02	36521682	AA	GG	1946766673
SNP_P4_27485_36530358	NC_021161.1	Ca_kabuli_chr02	36530358	TT	CC	1946766675
SNP_P4_27486_36580856	NC_021161.1	Ca_kabuli_chr02	36580856	GG	TT	1946766677
SNP_P4_27487_36589919	NC_021161.1	Ca_kabuli_chr02	36589919	TT	CC	1946766679
SNP_P4_27488_36595568	NC_021161.1	Ca_kabuli_chr02	36595568	CC	AA	1946766682
SNP_P4_27489_36596684	NC_021161.1	Ca_kabuli_chr02	36596684	AA	TT	1946766684
SNP_P4_27490_36597130	NC_021161.1	Ca_kabuli_chr02	36597130	AA	GG	1946766686
SNP_P4_27491_36597548	NC_021161.1	Ca_kabuli_chr02	36597548	CC	TT	1946766688

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_27493_36597882	NC_021161.1	Ca_kabuli_chr02	36597882	AA	GG	1946766692
SNP_P4_27494_36607632	NC_021161.1	Ca_kabuli_chr02	36607632	TT	CC	1946766694
SNP_P4_27495_36616058	NC_021161.1	Ca_kabuli_chr02	36616058	GG	AA	1946766696
SNP_P4_27496_36620836	NC_021161.1	Ca_kabuli_chr02	36620836	CC	TT	1946766698
SNP_P4_27497_36621221	NC_021161.1	Ca_kabuli_chr02	36621221	GG	AA	1946766700
SNP_P4_27498_36624181	NC_021161.1	Ca_kabuli_chr02	36624181	GG	TT	1946766702
SNP_P4_27499_36624182	NC_021161.1	Ca_kabuli_chr02	36624182	TT	AA	1946766704
SNP_P4_27500_36624256	NC_021161.1	Ca_kabuli_chr02	36624256	TT	CC	1946766706
SNP_P4_27501_36624276	NC_021161.1	Ca_kabuli_chr02	36624276	AA	GG	1946766708
SNP_P4_27502_36624397	NC_021161.1	Ca_kabuli_chr02	36624397	AA	GG	1946766710
SNP_P4_27503_36624497	NC_021161.1	Ca_kabuli_chr02	36624497	TT	CC	1946766712
SNP_P4_27504_36624552	NC_021161.1	Ca_kabuli_chr02	36624552	TT	CC	1946766714
SNP_P4_27505_36626378	NC_021161.1	Ca_kabuli_chr02	36626378	AA	GG	1946766716
SNP_P4_27506_36627078	NC_021161.1	Ca_kabuli_chr02	36627078	CC	TT	1946766718
SNP_P4_27507_36627637	NC_021161.1	Ca_kabuli_chr02	36627637	TT	CC	1946766720
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SNP_P4_27510_36633213	NC_021161.1	Ca_kabuli_chr02	36633213	CC	AA	1946766727
SNP_P4_27511_36634297	NC_021161.1	Ca_kabuli_chr02	36634297	GG	CC	1946766729
SNP_P4_27512_36634802	NC_021161.1	Ca_kabuli_chr02	36634802	AA	GG	1946766731
SNP_P4_27513_36634837	NC_021161.1	Ca_kabuli_chr02	36634837	GG	AA	1946766733
SNP_P4_27514_1082	NC_021162.1	Ca_kabuli_chr03	1082	TT	CC	1946766735
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SNP_P4_27516_4020	NC_021162.1	Ca_kabuli_chr03	4020	CC	TT	1946766740
SNP_P4_27517_5598	NC_021162.1	Ca_kabuli_chr03	5598	CC	TT	1946766742
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SNP_P4_27521_72355	NC_021162.1	Ca_kabuli_chr03	72355	CC	AA	1946766748
SNP_P4_27522_72356	NC_021162.1	Ca_kabuli_chr03	72356	CC	AA	1946766750
SNP_P4_27523_84169	NC_021162.1	Ca_kabuli_chr03	84169	AA	GG	1946766752
SNP_P4_27524_86095	NC_021162.1	Ca_kabuli_chr03	86095	TT	CC	1946766754
SNP_P4_27527_113550	NC_021162.1	Ca_kabuli_chr03	113550	TT	AA	1946766756
SNP_P4_27528_122883	NC_021162.1	Ca_kabuli_chr03	122883	AA	TT	1946766758
SNP_P4_27529_124514	NC_021162.1	Ca_kabuli_chr03	124514	GG	TT	1946766760
SNP_P4_27530_130558	NC_021162.1	Ca_kabuli_chr03	130558	GG	AA	1946766762
SNP_P4_27531_131903	NC_021162.1	Ca_kabuli_chr03	131903	GG	AA	1946766764
SNP_P4_27532_133391	NC_021162.1	Ca_kabuli_chr03	133391	AA	GG	1946766766
SNP_P4_27533_135373	NC_021162.1	Ca_kabuli_chr03	135373	AA	TT	1946766768
SNP_P4_27534_150119	NC_021162.1	Ca_kabuli_chr03	150119	GG	CC	1946766770
SNP_P4_27535_160494	NC_021162.1	Ca_kabuli_chr03	160494	TT	CC	1946766772
SNP_P4_27536_160497	NC_021162.1	Ca_kabuli_chr03	160497	CC	AA	1946766775

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_27538_160510	NC_021162.1	Ca_kabuli_chr03	160510	GG	TT	1946766779
SNP_P4_27539_160511	NC_021162.1	Ca_kabuli_chr03	160511	AA	GG	1946766781
SNP_P4_27540_160520	NC_021162.1	Ca_kabuli_chr03	160520	AA	CC	1946766783
SNP_P4_27541_160522	NC_021162.1	Ca_kabuli_chr03	160522	AA	TT	1946766785
SNP_P4_27542_160523	NC_021162.1	Ca_kabuli_chr03	160523	GG	AA	1946766787
SNP_P4_27544_178971	NC_021162.1	Ca_kabuli_chr03	178971	TT	GG	1946766789
SNP_P4_27545_188299	NC_021162.1	Ca_kabuli_chr03	188299	CC	TT	1946766791
SNP_P4_27546_188306	NC_021162.1	Ca_kabuli_chr03	188306	AA	TT	1946766793
SNP_P4_27547_188311	NC_021162.1	Ca_kabuli_chr03	188311	AA	CC	1946766795
SNP_P4_27548_189870	NC_021162.1	Ca_kabuli_chr03	189870	TT	CC	1946766797
SNP_P4_27549_189902	NC_021162.1	Ca_kabuli_chr03	189902	CC	AA	1946766799
SNP_P4_27550_189916	NC_021162.1	Ca_kabuli_chr03	189916	AA	GG	1946766801
SNP_P4_27551_189928	NC_021162.1	Ca_kabuli_chr03	189928	AA	CC	1946766803
SNP_P4_27552_189929	NC_021162.1	Ca_kabuli_chr03	189929	AA	TT	1946766805
SNP_P4_27553_189932	NC_021162.1	Ca_kabuli_chr03	189932	GG	AA	1946766807
SNP_P4_27554_189938	NC_021162.1	Ca_kabuli_chr03	189938	AA	GG	1946766809
SNP_P4_27555_201052	NC_021162.1	Ca_kabuli_chr03	201052	AA	GG	1946766811
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SNP_P4_27559_247679	NC_021162.1	Ca_kabuli_chr03	247679	GG	AA	1946766817
SNP_P4_27560_247703	NC_021162.1	Ca_kabuli_chr03	247703	AA	GG	1946766819
SNP_P4_27561_251369	NC_021162.1	Ca_kabuli_chr03	251369	AA	GG	1946766821
SNP_P4_27562_251785	NC_021162.1	Ca_kabuli_chr03	251785	GG	TT	1946766823
SNP_P4_27563_277453	NC_021162.1	Ca_kabuli_chr03	277453	TT	GG	1946766825
SNP_P4_27564_277610	NC_021162.1	Ca_kabuli_chr03	277610	TT	GG	1946766827
SNP_P4_27565_277622	NC_021162.1	Ca_kabuli_chr03	277622	GG	AA	1946766829
SNP_P4_27566_277627	NC_021162.1	Ca_kabuli_chr03	277627	AA	CC	1946766831
SNP_P4_27567_277656	NC_021162.1	Ca_kabuli_chr03	277656	AA	GG	1946766833
SNP_P4_27568_277670	NC_021162.1	Ca_kabuli_chr03	277670	CC	TT	1946766835
SNP_P4_27569_301368	NC_021162.1	Ca_kabuli_chr03	301368	CC	TT	1946766837
SNP_P4_27570_304445	NC_021162.1	Ca_kabuli_chr03	304445	TT	GG	1946766839
SNP_P4_27571_304581	NC_021162.1	Ca_kabuli_chr03	304581	GG	CC	1946766840
SNP_P4_27572_304595	NC_021162.1	Ca_kabuli_chr03	304595	GG	AA	1946766841
SNP_P4_27573_335987	NC_021162.1	Ca_kabuli_chr03	335987	CC	TT	1946766842
SNP_P4_27574_336071	NC_021162.1	Ca_kabuli_chr03	336071	GG	AA	1946766843
SNP_P4_27575_337195	NC_021162.1	Ca_kabuli_chr03	337195	AA	GG	1946766844
SNP_P4_27576_339110	NC_021162.1	Ca_kabuli_chr03	339110	TT	CC	1946766845
SNP_P4_27577_339288	NC_021162.1	Ca_kabuli_chr03	339288	CC	TT	1946766846
SNP_P4_27578_357490	NC_021162.1	Ca_kabuli_chr03	357490	CC	TT	1946766847
SNP_P4_27579_358363	NC_021162.1	Ca_kabuli_chr03	358363	TT	CC	1946766848
SNP_P4_27580_370630	NC_021162.1	Ca_kabuli_chr03	370630	GG	AA	1946766849

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_27582_376342	NC_021162.1	Ca_kabuli_chr03	376342	GG	TT	1946766853
SNP_P4_27583_376712	NC_021162.1	Ca_kabuli_chr03	376712	TT	CC	1946766855
SNP_P4_27584_380777	NC_021162.1	Ca_kabuli_chr03	380777	AA	GG	1946766857
SNP_P4_27585_395811	NC_021162.1	Ca_kabuli_chr03	395811	AA	GG	1946766859
SNP_P4_27586_395820	NC_021162.1	Ca_kabuli_chr03	395820	GG	AA	1946766861
SNP_P4_27589_415305	NC_021162.1	Ca_kabuli_chr03	415305	GG	AA	1946766863
SNP_P4_27590_415494	NC_021162.1	Ca_kabuli_chr03	415494	TT	GG	1946766866
SNP_P4_27591_415694	NC_021162.1	Ca_kabuli_chr03	415694	CC	GG	1946766868
SNP_P4_27592_415739	NC_021162.1	Ca_kabuli_chr03	415739	TT	CC	1946766870
SNP_P4_27593_415743	NC_021162.1	Ca_kabuli_chr03	415743	CC	TT	1946766872
SNP_P4_27594_426792	NC_021162.1	Ca_kabuli_chr03	426792	GG	AA	1946766874
SNP_P4_27595_433140	NC_021162.1	Ca_kabuli_chr03	433140	AA	GG	1946766876
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SNP_P4_27599_451700	NC_021162.1	Ca_kabuli_chr03	451700	GG	AA	1946766882
SNP_P4_27600_451809	NC_021162.1	Ca_kabuli_chr03	451809	AA	GG	1946766884
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SNP_P4_27617_566314	NC_021162.1	Ca_kabuli_chr03	566314	AA	CC	1946766909
SNP_P4_27618_567187	NC_021162.1	Ca_kabuli_chr03	567187	TT	CC	1946766911
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SNP_P4_27621_635197	NC_021162.1	Ca_kabuli_chr03	635197	AA	TT	1946766917
SNP_P4_27622_643917	NC_021162.1	Ca_kabuli_chr03	643917	GG	AA	1946766919
SNP_P4_27623_646509	NC_021162.1	Ca_kabuli_chr03	646509	GG	AA	1946766921
SNP_P4_27624_646524	NC_021162.1	Ca_kabuli_chr03	646524	GG	AA	1946766923
SNP_P4_27625_646525	NC_021162.1	Ca_kabuli_chr03	646525	TT	GG	1946766925
SNP_P4_27626_646923	NC_021162.1	Ca_kabuli_chr03	646923	AA	GG	1946766927
SNP_P4_27627_647432	NC_021162.1	Ca_kabuli_chr03	647432	CC	TT	1946766929
SNP_P4_27628_647437	NC_021162.1	Ca_kabuli_chr03	647437	GG	AA	1946766931
SNP_P4_27629_647492	NC_021162.1	Ca_kabuli_chr03	647492	CC	AA	1946766933
SNP_P4_27630_671284	NC_021162.1	Ca_kabuli_chr03	671284	TT	CC	1946766935

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_27632_671376	NC_021162.1	Ca_kabuli_chr03	671376	TT	CC	1946766940
SNP_P4_27633_671390	NC_021162.1	Ca_kabuli_chr03	671390	CC	TT	1946766942
SNP_P4_27634_671392	NC_021162.1	Ca_kabuli_chr03	671392	TT	GG	1946766944
SNP_P4_27635_671399	NC_021162.1	Ca_kabuli_chr03	671399	GG	CC	1946766946
SNP_P4_27636_671412	NC_021162.1	Ca_kabuli_chr03	671412	TT	AA	1946766948
SNP_P4_27637_671451	NC_021162.1	Ca_kabuli_chr03	671451	AA	GG	1946766950
SNP_P4_27638_671549	NC_021162.1	Ca_kabuli_chr03	671549	TT	CC	1946766952
SNP_P4_27639_671632	NC_021162.1	Ca_kabuli_chr03	671632	CC	TT	1946766954
SNP_P4_27640_671633	NC_021162.1	Ca_kabuli_chr03	671633	TT	CC	1946766956
SNP_P4_27641_683763	NC_021162.1	Ca_kabuli_chr03	683763	CC	TT	1946766958
SNP_P4_27642_686721	NC_021162.1	Ca_kabuli_chr03	686721	CC	TT	1946766960
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SNP_P4_27648_812382	NC_021162.1	Ca_kabuli_chr03	812382	AA	GG	1946766968
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SNP_P4_27650_812831	NC_021162.1	Ca_kabuli_chr03	812831	CC	TT	1946766972
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SNP_P4_27652_833850	NC_021162.1	Ca_kabuli_chr03	833850	AA	TT	1946766976
SNP_P4_27654_854281	NC_021162.1	Ca_kabuli_chr03	854281	AA	GG	1946766979
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SNP_P4_27659_899597	NC_021162.1	Ca_kabuli_chr03	899597	CC	AA	1946766988
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SNP_P4_27662_922479	NC_021162.1	Ca_kabuli_chr03	922479	TT	CC	1946766994
SNP_P4_27663_922516	NC_021162.1	Ca_kabuli_chr03	922516	TT	CC	1946766996
SNP_P4_27664_922553	NC_021162.1	Ca_kabuli_chr03	922553	AA	GG	1946766998
SNP_P4_27665_922557	NC_021162.1	Ca_kabuli_chr03	922557	AA	TT	1946767000
SNP_P4_27666_922599	NC_021162.1	Ca_kabuli_chr03	922599	TT	CC	1946767002
SNP_P4_27667_922645	NC_021162.1	Ca_kabuli_chr03	922645	TT	CC	1946767004
SNP_P4_27668_922852	NC_021162.1	Ca_kabuli_chr03	922852	AA	GG	1946767006
SNP_P4_27669_923493	NC_021162.1	Ca_kabuli_chr03	923493	GG	AA	1946767008
SNP_P4_27670_924803	NC_021162.1	Ca_kabuli_chr03	924803	AA	GG	1946767010
SNP_P4_27671_924839	NC_021162.1	Ca_kabuli_chr03	924839	AA	GG	1946767012
SNP_P4_27672_925181	NC_021162.1	Ca_kabuli_chr03	925181	GG	TT	1946767014
SNP_P4_27673_925217	NC_021162.1	Ca_kabuli_chr03	925217	AA	TT	1946767016
SNP_P4_27674_925300	NC_021162.1	Ca_kabuli_chr03	925300	AA	CC	1946767018
SNP_P4_27675_938744	NC_021162.1	Ca_kabuli_chr03	938744	CC	AA	1946767020

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_27678_939100	NC_021162.1	Ca_kabuli_chr03	939100	AA	GG	1946767024
SNP_P4_27679_939166	NC_021162.1	Ca_kabuli_chr03	939166	GG	TT	1946767026
SNP_P4_27680_939396	NC_021162.1	Ca_kabuli_chr03	939396	GG	AA	1946767028
SNP_P4_27681_959118	NC_021162.1	Ca_kabuli_chr03	959118	TT	GG	1946767030
SNP_P4_27682_959400	NC_021162.1	Ca_kabuli_chr03	959400	TT	CC	1946767032
SNP_P4_27683_962309	NC_021162.1	Ca_kabuli_chr03	962309	TT	AA	1946767034
SNP_P4_27684_962482	NC_021162.1	Ca_kabuli_chr03	962482	TT	CC	1946767036
SNP_P4_27685_962517	NC_021162.1	Ca_kabuli_chr03	962517	GG	AA	1946767038
SNP_P4_27686_964059	NC_021162.1	Ca_kabuli_chr03	964059	AA	CC	1946767040
SNP_P4_27687_964568	NC_021162.1	Ca_kabuli_chr03	964568	CC	TT	1946767042
SNP_P4_27688_964673	NC_021162.1	Ca_kabuli_chr03	964673	AA	GG	1946767044
SNP_P4_27689_965988	NC_021162.1	Ca_kabuli_chr03	965988	TT	CC	1946767046
SNP_P4_27690_966018	NC_021162.1	Ca_kabuli_chr03	966018	CC	TT	1946767048
SNP_P4_27691_966054	NC_021162.1	Ca_kabuli_chr03	966054	AA	GG	1946767050
SNP_P4_27692_968322	NC_021162.1	Ca_kabuli_chr03	968322	GG	TT	1946767052
SNP_P4_27693_982552	NC_021162.1	Ca_kabuli_chr03	982552	CC	TT	1946767054
SNP_P4_27694_993659	NC_021162.1	Ca_kabuli_chr03	993659	TT	CC	1946767056
SNP_P4_27695_995997	NC_021162.1	Ca_kabuli_chr03	995997	GG	TT	1946767058
SNP_P4_27696_996284	NC_021162.1	Ca_kabuli_chr03	996284	TT	CC	1946767061
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SNP_P4_27699_1005376	NC_021162.1	Ca_kabuli_chr03	1005376	AA	GG	1946767067
SNP_P4_27700_1020369	NC_021162.1	Ca_kabuli_chr03	1020369	AA	GG	1946767069
SNP_P4_27702_1038194	NC_021162.1	Ca_kabuli_chr03	1038194	AA	GG	1946767071
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SNP_P4_27704_1054054	NC_021162.1	Ca_kabuli_chr03	1054054	CC	AA	1946767075
SNP_P4_27705_1062910	NC_021162.1	Ca_kabuli_chr03	1062910	TT	CC	1946767077
SNP_P4_27706_1062946	NC_021162.1	Ca_kabuli_chr03	1062946	CC	TT	1946767079
SNP_P4_27707_1063002	NC_021162.1	Ca_kabuli_chr03	1063002	TT	CC	1946767081
SNP_P4_27708_1063006	NC_021162.1	Ca_kabuli_chr03	1063006	CC	GG	1946767083
SNP_P4_27709_1063032	NC_021162.1	Ca_kabuli_chr03	1063032	CC	TT	1946767085
SNP_P4_27710_1063097	NC_021162.1	Ca_kabuli_chr03	1063097	CC	TT	1946767086
SNP_P4_27711_1063112	NC_021162.1	Ca_kabuli_chr03	1063112	CC	TT	1946767087
SNP_P4_27712_1063130	NC_021162.1	Ca_kabuli_chr03	1063130	AA	CC	1946767088
SNP_P4_27713_1063148	NC_021162.1	Ca_kabuli_chr03	1063148	TT	CC	1946767089
SNP_P4_27714_1063160	NC_021162.1	Ca_kabuli_chr03	1063160	CC	TT	1946767091
SNP_P4_27715_1089581	NC_021162.1	Ca_kabuli_chr03	1089581	AA	GG	1946767093
SNP_P4_27716_1090063	NC_021162.1	Ca_kabuli_chr03	1090063	AA	TT	1946767095
SNP_P4_27717_1091019	NC_021162.1	Ca_kabuli_chr03	1091019	AA	GG	1946767097
SNP_P4_27718_1091026	NC_021162.1	Ca_kabuli_chr03	1091026	CC	AA	1946767099
SNP_P4_27719_1091037	NC_021162.1	Ca_kabuli_chr03	1091037	AA	TT	1946767101

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_27721_1117276	NC_021162.1	Ca_kabuli_chr03	1117276	CC	TT	1946767105
SNP_P4_27722_1118999	NC_021162.1	Ca_kabuli_chr03	1118999	AA	TT	1946767107
SNP_P4_27724_1159563	NC_021162.1	Ca_kabuli_chr03	1159563	CC	AA	1946767109
SNP_P4_27725_1175163	NC_021162.1	Ca_kabuli_chr03	1175163	TT	AA	1946767111
SNP_P4_27726_1175415	NC_021162.1	Ca_kabuli_chr03	1175415	TT	GG	1946767113
SNP_P4_27727_1175443	NC_021162.1	Ca_kabuli_chr03	1175443	AA	CC	1946767115
SNP_P4_27728_1175453	NC_021162.1	Ca_kabuli_chr03	1175453	TT	GG	1946767117
SNP_P4_27729_1175485	NC_021162.1	Ca_kabuli_chr03	1175485	TT	CC	1946767120
SNP_P4_27730_1175486	NC_021162.1	Ca_kabuli_chr03	1175486	AA	TT	1946767122
SNP_P4_27731_1175538	NC_021162.1	Ca_kabuli_chr03	1175538	AA	CC	1946767124
SNP_P4_27732_1175761	NC_021162.1	Ca_kabuli_chr03	1175761	AA	GG	1946767126
SNP_P4_27733_1175791	NC_021162.1	Ca_kabuli_chr03	1175791	AA	TT	1946767128
SNP_P4_27734_1175911	NC_021162.1	Ca_kabuli_chr03	1175911	AA	GG	1946767130
SNP_P4_27735_1175945	NC_021162.1	Ca_kabuli_chr03	1175945	GG	AA	1946767132
SNP_P4_27736_1185584	NC_021162.1	Ca_kabuli_chr03	1185584	TT	CC	1946767134
SNP_P4_27737_1185717	NC_021162.1	Ca_kabuli_chr03	1185717	AA	GG	1946767136
SNP_P4_27738_1185730	NC_021162.1	Ca_kabuli_chr03	1185730	GG	AA	1946767138
SNP_P4_27739_1185894	NC_021162.1	Ca_kabuli_chr03	1185894	GG	AA	1946767140
SNP_P4_27740_1185903	NC_021162.1	Ca_kabuli_chr03	1185903	GG	TT	1946767142
SNP_P4_27741_1185904	NC_021162.1	Ca_kabuli_chr03	1185904	GG	AA	1946767144
SNP_P4_27742_1185915	NC_021162.1	Ca_kabuli_chr03	1185915	AA	GG	1946767146
SNP_P4_27743_1185933	NC_021162.1	Ca_kabuli_chr03	1185933	TT	CC	1946767148
SNP_P4_27744_1188342	NC_021162.1	Ca_kabuli_chr03	1188342	CC	TT	1946767150
SNP_P4_27745_1188396	NC_021162.1	Ca_kabuli_chr03	1188396	TT	CC	1946767152
SNP_P4_27746_1188397	NC_021162.1	Ca_kabuli_chr03	1188397	GG	TT	1946767154
SNP_P4_27747_1188676	NC_021162.1	Ca_kabuli_chr03	1188676	TT	AA	1946767156
SNP_P4_27748_1188683	NC_021162.1	Ca_kabuli_chr03	1188683	CC	TT	1946767159
SNP_P4_27749_1188728	NC_021162.1	Ca_kabuli_chr03	1188728	GG	AA	1946767161
SNP_P4_27751_1208109	NC_021162.1	Ca_kabuli_chr03	1208109	AA	GG	1946767163
SNP_P4_27752_1208149	NC_021162.1	Ca_kabuli_chr03	1208149	AA	CC	1946767165
SNP_P4_27753_1245616	NC_021162.1	Ca_kabuli_chr03	1245616	AA	GG	1946767167
SNP_P4_27754_1272094	NC_021162.1	Ca_kabuli_chr03	1272094	GG	TT	1946767169
SNP_P4_27755_1273313	NC_021162.1	Ca_kabuli_chr03	1273313	AA	GG	1946767171
SNP_P4_27756_1273367	NC_021162.1	Ca_kabuli_chr03	1273367	AA	GG	1946767173
SNP_P4_27757_1273572	NC_021162.1	Ca_kabuli_chr03	1273572	AA	GG	1946767175
SNP_P4_27758_1280568	NC_021162.1	Ca_kabuli_chr03	1280568	GG	AA	1946767177
SNP_P4_27760_1332786	NC_021162.1	Ca_kabuli_chr03	1332786	CC	TT	1946767179
SNP_P4_27762_1391626	NC_021162.1	Ca_kabuli_chr03	1391626	TT	CC	1946767181
SNP_P4_27763_1395000	NC_021162.1	Ca_kabuli_chr03	1395000	GG	CC	1946767184
SNP_P4_27764_1395094	NC_021162.1	Ca_kabuli_chr03	1395094	TT	AA	1946767186
SNP_P4_27765_1395105	NC_021162.1	Ca_kabuli_chr03	1395105	TT	GG	1946767188

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_27767_1395121	NC_021162.1	Ca_kabuli_chr03	1395121	AA	GG	1946767192
SNP_P4_27768_1395135	NC_021162.1	Ca_kabuli_chr03	1395135	CC	TT	1946767194
SNP_P4_27769_1395218	NC_021162.1	Ca_kabuli_chr03	1395218	CC	TT	1946767196
SNP_P4_27770_1395381	NC_021162.1	Ca_kabuli_chr03	1395381	CC	GG	1946767198
SNP_P4_27771_1395392	NC_021162.1	Ca_kabuli_chr03	1395392	CC	AA	1946767200
SNP_P4_27772_1395397	NC_021162.1	Ca_kabuli_chr03	1395397	TT	AA	1946767202
SNP_P4_27773_1395398	NC_021162.1	Ca_kabuli_chr03	1395398	AA	CC	1946767204
SNP_P4_27774_1395399	NC_021162.1	Ca_kabuli_chr03	1395399	TT	AA	1946767206
SNP_P4_27775_1395400	NC_021162.1	Ca_kabuli_chr03	1395400	GG	TT	1946767208
SNP_P4_27776_1395407	NC_021162.1	Ca_kabuli_chr03	1395407	GG	TT	1946767210
SNP_P4_27777_1395482	NC_021162.1	Ca_kabuli_chr03	1395482	CC	TT	1946767212
SNP_P4_27778_1395580	NC_021162.1	Ca_kabuli_chr03	1395580	GG	TT	1946767214
SNP_P4_27779_1396142	NC_021162.1	Ca_kabuli_chr03	1396142	AA	GG	1946767216
SNP_P4_27780_1396167	NC_021162.1	Ca_kabuli_chr03	1396167	TT	GG	1946767218
SNP_P4_27781_1396177	NC_021162.1	Ca_kabuli_chr03	1396177	TT	GG	1946767220
SNP_P4_27782_1396182	NC_021162.1	Ca_kabuli_chr03	1396182	AA	GG	1946767222
SNP_P4_27783_1396482	NC_021162.1	Ca_kabuli_chr03	1396482	TT	CC	1946767224
SNP_P4_27784_1396653	NC_021162.1	Ca_kabuli_chr03	1396653	GG	AA	1946767226
SNP_P4_27785_1396966	NC_021162.1	Ca_kabuli_chr03	1396966	AA	TT	1946767228
SNP_P4_27786_1397159	NC_021162.1	Ca_kabuli_chr03	1397159	AA	GG	1946767230
SNP_P4_27787_1397182	NC_021162.1	Ca_kabuli_chr03	1397182	AA	TT	1946767232
SNP_P4_27788_1397553	NC_021162.1	Ca_kabuli_chr03	1397553	TT	CC	1946767234
SNP_P4_27789_1417735	NC_021162.1	Ca_kabuli_chr03	1417735	AA	GG	1946767236
SNP_P4_27790_1418993	NC_021162.1	Ca_kabuli_chr03	1418993	TT	CC	1946767238
SNP_P4_27791_1438776	NC_021162.1	Ca_kabuli_chr03	1438776	AA	GG	1946767241
SNP_P4_27793_1450685	NC_021162.1	Ca_kabuli_chr03	1450685	GG	TT	1946767243
SNP_P4_27794_1450898	NC_021162.1	Ca_kabuli_chr03	1450898	CC	TT	1946767245
SNP_P4_27795_1450984	NC_021162.1	Ca_kabuli_chr03	1450984	AA	GG	1946767247
SNP_P4_27796_1452268	NC_021162.1	Ca_kabuli_chr03	1452268	TT	AA	1946767249
SNP_P4_27797_1452269	NC_021162.1	Ca_kabuli_chr03	1452269	CC	AA	1946767251
SNP_P4_27798_1454878	NC_021162.1	Ca_kabuli_chr03	1454878	AA	GG	1946767253
SNP_P4_27799_1458366	NC_021162.1	Ca_kabuli_chr03	1458366	GG	AA	1946767255
SNP_P4_27800_1461935	NC_021162.1	Ca_kabuli_chr03	1461935	GG	AA	1946767257
SNP_P4_27801_1464172	NC_021162.1	Ca_kabuli_chr03	1464172	AA	GG	1946767259
SNP_P4_27802_1468205	NC_021162.1	Ca_kabuli_chr03	1468205	GG	CC	1946767261
SNP_P4_27803_1476372	NC_021162.1	Ca_kabuli_chr03	1476372	AA	GG	1946767263
SNP_P4_27804_1477916	NC_021162.1	Ca_kabuli_chr03	1477916	AA	TT	1946767265
SNP_P4_27806_1489932	NC_021162.1	Ca_kabuli_chr03	1489932	AA	TT	1946767267
SNP_P4_27807_1532706	NC_021162.1	Ca_kabuli_chr03	1532706	TT	CC	1946767269
SNP_P4_27808_1532734	NC_021162.1	Ca_kabuli_chr03	1532734	TT	AA	1946767271
SNP_P4_27809_1532808	NC_021162.1	Ca_kabuli_chr03	1532808	AA	CC	1946767273

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_27811_1532866	NC_021162.1	Ca_kabuli_chr03	1532866	AA	CC	1946767277
SNP_P4_27812_1533039	NC_021162.1	Ca_kabuli_chr03	1533039	AA	GG	1946767279
SNP_P4_27813_1533063	NC_021162.1	Ca_kabuli_chr03	1533063	TT	GG	1946767281
SNP_P4_27814_1533090	NC_021162.1	Ca_kabuli_chr03	1533090	CC	TT	1946767283
SNP_P4_27815_1533220	NC_021162.1	Ca_kabuli_chr03	1533220	CC	TT	1946767285
SNP_P4_27816_1533228	NC_021162.1	Ca_kabuli_chr03	1533228	AA	CC	1946767287
SNP_P4_27817_1533230	NC_021162.1	Ca_kabuli_chr03	1533230	TT	AA	1946767290
SNP_P4_27818_1533266	NC_021162.1	Ca_kabuli_chr03	1533266	GG	CC	1946767292
SNP_P4_27819_1533319	NC_021162.1	Ca_kabuli_chr03	1533319	AA	GG	1946767294
SNP_P4_27820_1533341	NC_021162.1	Ca_kabuli_chr03	1533341	CC	TT	1946767296
SNP_P4_27822_1533410	NC_021162.1	Ca_kabuli_chr03	1533410	GG	AA	1946767298
SNP_P4_27823_1533560	NC_021162.1	Ca_kabuli_chr03	1533560	TT	CC	1946767300
SNP_P4_27824_1533706	NC_021162.1	Ca_kabuli_chr03	1533706	CC	GG	1946767302
SNP_P4_27825_1533711	NC_021162.1	Ca_kabuli_chr03	1533711	TT	CC	1946767304
SNP_P4_27826_1533885	NC_021162.1	Ca_kabuli_chr03	1533885	TT	CC	1946767306
SNP_P4_27828_1534242	NC_021162.1	Ca_kabuli_chr03	1534242	TT	CC	1946767308
SNP_P4_27829_1534371	NC_021162.1	Ca_kabuli_chr03	1534371	TT	AA	1946767310
SNP_P4_27830_1534419	NC_021162.1	Ca_kabuli_chr03	1534419	CC	TT	1946767312
SNP_P4_27831_1534459	NC_021162.1	Ca_kabuli_chr03	1534459	TT	AA	1946767314
SNP_P4_27832_1534509	NC_021162.1	Ca_kabuli_chr03	1534509	GG	AA	1946767316
SNP_P4_27833_1534631	NC_021162.1	Ca_kabuli_chr03	1534631	AA	CC	1946767318
SNP_P4_27834_1534651	NC_021162.1	Ca_kabuli_chr03	1534651	CC	TT	1946767320
SNP_P4_27835_1534678	NC_021162.1	Ca_kabuli_chr03	1534678	AA	GG	1946767322
SNP_P4_27836_1534763	NC_021162.1	Ca_kabuli_chr03	1534763	CC	TT	1946767324
SNP_P4_27837_1534806	NC_021162.1	Ca_kabuli_chr03	1534806	GG	AA	1946767326
SNP_P4_27838_1534811	NC_021162.1	Ca_kabuli_chr03	1534811	AA	GG	1946767328
SNP_P4_27839_1546100	NC_021162.1	Ca_kabuli_chr03	1546100	TT	CC	1946767330
SNP_P4_27840_1546150	NC_021162.1	Ca_kabuli_chr03	1546150	CC	GG	1946767332
SNP_P4_27841_1577619	NC_021162.1	Ca_kabuli_chr03	1577619	TT	GG	1946767334
SNP_P4_27842_1599075	NC_021162.1	Ca_kabuli_chr03	1599075	AA	TT	1946767336
SNP_P4_27844_1642028	NC_021162.1	Ca_kabuli_chr03	1642028	GG	AA	1946767338
SNP_P4_27845_1642588	NC_021162.1	Ca_kabuli_chr03	1642588	CC	TT	1946767340
SNP_P4_27846_1650604	NC_021162.1	Ca_kabuli_chr03	1650604	AA	GG	1946767342
SNP_P4_27847_1650689	NC_021162.1	Ca_kabuli_chr03	1650689	AA	GG	1946767344
SNP_P4_27850_1708576	NC_021162.1	Ca_kabuli_chr03	1708576	AA	TT	1946767346
SNP_P4_27851_1718188	NC_021162.1	Ca_kabuli_chr03	1718188	TT	CC	1946767348
SNP_P4_27853_1749337	NC_021162.1	Ca_kabuli_chr03	1749337	TT	GG	1946767350
SNP_P4_27854_1749340	NC_021162.1	Ca_kabuli_chr03	1749340	TT	GG	1946767352
SNP_P4_27856_1796176	NC_021162.1	Ca_kabuli_chr03	1796176	GG	AA	1946767354
SNP_P4_27857_1796185	NC_021162.1	Ca_kabuli_chr03	1796185	AA	TT	1946767356
SNP_P4_27858_1796197	NC_021162.1	Ca_kabuli_chr03	1796197	TT	CC	1946767358

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_27860_1796233	NC_021162.1	Ca_kabuli_chr03	1796233	CC	TT	1946767362
SNP_P4_27861_1796238	NC_021162.1	Ca_kabuli_chr03	1796238	TT	CC	1946767364
SNP_P4_27862_1796242	NC_021162.1	Ca_kabuli_chr03	1796242	CC	TT	1946767366
SNP_P4_27863_1796251	NC_021162.1	Ca_kabuli_chr03	1796251	AA	GG	1946767368
SNP_P4_27864_1796272	NC_021162.1	Ca_kabuli_chr03	1796272	CC	TT	1946767370
SNP_P4_27865_1796370	NC_021162.1	Ca_kabuli_chr03	1796370	AA	CC	1946767372
SNP_P4_27866_1796373	NC_021162.1	Ca_kabuli_chr03	1796373	GG	AA	1946767374
SNP_P4_27867_1796380	NC_021162.1	Ca_kabuli_chr03	1796380	CC	TT	1946767376
SNP_P4_27868_1796425	NC_021162.1	Ca_kabuli_chr03	1796425	CC	TT	1946767378
SNP_P4_27869_1796837	NC_021162.1	Ca_kabuli_chr03	1796837	CC	TT	1946767380
SNP_P4_27870_1796867	NC_021162.1	Ca_kabuli_chr03	1796867	CC	TT	1946767382
SNP_P4_27871_1813123	NC_021162.1	Ca_kabuli_chr03	1813123	CC	GG	1946767384
SNP_P4_27872_1828968	NC_021162.1	Ca_kabuli_chr03	1828968	AA	GG	1946767386
SNP_P4_27873_1904023	NC_021162.1	Ca_kabuli_chr03	1904023	AA	GG	1946767388
SNP_P4_27874_1921411	NC_021162.1	Ca_kabuli_chr03	1921411	CC	AA	1946767390
SNP_P4_27877_1991844	NC_021162.1	Ca_kabuli_chr03	1991844	TT	AA	1946767392
SNP_P4_27878_1994208	NC_021162.1	Ca_kabuli_chr03	1994208	AA	GG	1946767394
SNP_P4_27879_2023097	NC_021162.1	Ca_kabuli_chr03	2023097	CC	TT	1946767396
SNP_P4_27880_2026751	NC_021162.1	Ca_kabuli_chr03	2026751	TT	CC	1946767397
SNP_P4_27881_2035505	NC_021162.1	Ca_kabuli_chr03	2035505	GG	AA	1946767399
SNP_P4_27882_2044277	NC_021162.1	Ca_kabuli_chr03	2044277	GG	AA	1946767401
SNP_P4_27883_2066942	NC_021162.1	Ca_kabuli_chr03	2066942	CC	AA	1946767403
SNP_P4_27884_2101631	NC_021162.1	Ca_kabuli_chr03	2101631	GG	CC	1946767405
SNP_P4_27886_2123296	NC_021162.1	Ca_kabuli_chr03	2123296	AA	CC	1946767407
SNP_P4_27887_2126611	NC_021162.1	Ca_kabuli_chr03	2126611	AA	GG	1946767409
SNP_P4_27889_2185567	NC_021162.1	Ca_kabuli_chr03	2185567	GG	AA	1946767411
SNP_P4_27890_2194670	NC_021162.1	Ca_kabuli_chr03	2194670	TT	CC	1946767413
SNP_P4_27891_2194715	NC_021162.1	Ca_kabuli_chr03	2194715	TT	AA	1946767415
SNP_P4_27892_2194716	NC_021162.1	Ca_kabuli_chr03	2194716	TT	GG	1946767417
SNP_P4_27893_2194738	NC_021162.1	Ca_kabuli_chr03	2194738	TT	CC	1946767419
SNP_P4_27894_2194962	NC_021162.1	Ca_kabuli_chr03	2194962	AA	CC	1946767421
SNP_P4_27895_2206622	NC_021162.1	Ca_kabuli_chr03	2206622	GG	AA	1946767423
SNP_P4_27896_2210514	NC_021162.1	Ca_kabuli_chr03	2210514	TT	GG	1946767425
SNP_P4_27898_2233826	NC_021162.1	Ca_kabuli_chr03	2233826	AA	CC	1946767427
SNP_P4_27899_2242248	NC_021162.1	Ca_kabuli_chr03	2242248	TT	CC	1946767429
SNP_P4_27900_2260030	NC_021162.1	Ca_kabuli_chr03	2260030	AA	GG	1946767431
SNP_P4_27902_2260239	NC_021162.1	Ca_kabuli_chr03	2260239	TT	CC	1946767433
SNP_P4_27903_2260444	NC_021162.1	Ca_kabuli_chr03	2260444	GG	AA	1946767435
SNP_P4_27904_2260605	NC_021162.1	Ca_kabuli_chr03	2260605	TT	AA	1946767437
SNP_P4_27905_2272141	NC_021162.1	Ca_kabuli_chr03	2272141	CC	GG	1946767439
SNP_P4_27906_2272143	NC_021162.1	Ca_kabuli_chr03	2272143	CC	GG	1946767441

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_27908_2286292	NC_021162.1	Ca_kabuli_chr03	2286292	AA	GG	1946767445
SNP_P4_27909_2292147	NC_021162.1	Ca_kabuli_chr03	2292147	CC	TT	1946767447
SNP_P4_27910_2331172	NC_021162.1	Ca_kabuli_chr03	2331172	TT	CC	1946767449
SNP_P4_27911_2355510	NC_021162.1	Ca_kabuli_chr03	2355510	AA	GG	1946767451
SNP_P4_27912_2382590	NC_021162.1	Ca_kabuli_chr03	2382590	AA	CC	1946767453
SNP_P4_27913_2382636	NC_021162.1	Ca_kabuli_chr03	2382636	TT	AA	1946767455
SNP_P4_27914_2382659	NC_021162.1	Ca_kabuli_chr03	2382659	TT	AA	1946767457
SNP_P4_27915_2384797	NC_021162.1	Ca_kabuli_chr03	2384797	GG	AA	1946767459
SNP_P4_27916_2441439	NC_021162.1	Ca_kabuli_chr03	2441439	TT	CC	1946767461
SNP_P4_27917_2442094	NC_021162.1	Ca_kabuli_chr03	2442094	CC	AA	1946767463
SNP_P4_27919_2496315	NC_021162.1	Ca_kabuli_chr03	2496315	TT	AA	1946767465
SNP_P4_27920_2496354	NC_021162.1	Ca_kabuli_chr03	2496354	GG	AA	1946767467
SNP_P4_27921_2496368	NC_021162.1	Ca_kabuli_chr03	2496368	TT	GG	1946767469
SNP_P4_27922_2496458	NC_021162.1	Ca_kabuli_chr03	2496458	TT	CC	1946767471
SNP_P4_27923_2496482	NC_021162.1	Ca_kabuli_chr03	2496482	AA	TT	1946767473
SNP_P4_27924_2496505	NC_021162.1	Ca_kabuli_chr03	2496505	TT	AA	1946767475
SNP_P4_27925_2496524	NC_021162.1	Ca_kabuli_chr03	2496524	CC	TT	1946767477
SNP_P4_27926_2496563	NC_021162.1	Ca_kabuli_chr03	2496563	GG	CC	1946767479
SNP_P4_27927_2496733	NC_021162.1	Ca_kabuli_chr03	2496733	GG	AA	1946767481
SNP_P4_27929_2513919	NC_021162.1	Ca_kabuli_chr03	2513919	GG	AA	1946767483
SNP_P4_27930_2522535	NC_021162.1	Ca_kabuli_chr03	2522535	CC	GG	1946767485
SNP_P4_27931_2529197	NC_021162.1	Ca_kabuli_chr03	2529197	GG	CC	1946767487
SNP_P4_27932_2571166	NC_021162.1	Ca_kabuli_chr03	2571166	AA	TT	1946767489
SNP_P4_27933_2571335	NC_021162.1	Ca_kabuli_chr03	2571335	AA	GG	1946767491
SNP_P4_27934_2571401	NC_021162.1	Ca_kabuli_chr03	2571401	AA	GG	1946767493
SNP_P4_27935_2571517	NC_021162.1	Ca_kabuli_chr03	2571517	AA	CC	1946767495
SNP_P4_27936_2571572	NC_021162.1	Ca_kabuli_chr03	2571572	CC	GG	1946767497
SNP_P4_27937_2573682	NC_021162.1	Ca_kabuli_chr03	2573682	TT	AA	1946767499
SNP_P4_27938_2573694	NC_021162.1	Ca_kabuli_chr03	2573694	AA	CC	1946767501
SNP_P4_27939_2573707	NC_021162.1	Ca_kabuli_chr03	2573707	GG	AA	1946767503
SNP_P4_27940_2573753	NC_021162.1	Ca_kabuli_chr03	2573753	CC	GG	1946767505
SNP_P4_27941_2573763	NC_021162.1	Ca_kabuli_chr03	2573763	TT	GG	1946767507
SNP_P4_27942_2573786	NC_021162.1	Ca_kabuli_chr03	2573786	TT	AA	1946767509
SNP_P4_27943_2574084	NC_021162.1	Ca_kabuli_chr03	2574084	GG	AA	1946767511
SNP_P4_27944_2579310	NC_021162.1	Ca_kabuli_chr03	2579310	AA	CC	1946767513
SNP_P4_27945_2579318	NC_021162.1	Ca_kabuli_chr03	2579318	TT	CC	1946767515
SNP_P4_27946_2621066	NC_021162.1	Ca_kabuli_chr03	2621066	CC	TT	1946767517
SNP_P4_27947_2631149	NC_021162.1	Ca_kabuli_chr03	2631149	TT	CC	1946767519
SNP_P4_27948_2631150	NC_021162.1	Ca_kabuli_chr03	2631150	AA	GG	1946767521
SNP_P4_27949_2631164	NC_021162.1	Ca_kabuli_chr03	2631164	GG	AA	1946767523
SNP_P4_27950_2631188	NC_021162.1	Ca_kabuli_chr03	2631188	GG	AA	1946767525

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_27952_2631222	NC_021162.1	Ca_kabuli_chr03	2631222	GG	AA	1946767529
SNP_P4_27953_2631250	NC_021162.1	Ca_kabuli_chr03	2631250	CC	TT	1946767531
SNP_P4_27954_2631325	NC_021162.1	Ca_kabuli_chr03	2631325	AA	GG	1946767533
SNP_P4_27955_2631342	NC_021162.1	Ca_kabuli_chr03	2631342	CC	AA	1946767535
SNP_P4_27956_2631466	NC_021162.1	Ca_kabuli_chr03	2631466	TT	CC	1946767537
SNP_P4_27957_2631553	NC_021162.1	Ca_kabuli_chr03	2631553	GG	AA	1946767539
SNP_P4_27958_2631569	NC_021162.1	Ca_kabuli_chr03	2631569	AA	GG	1946767541
SNP_P4_27959_2631589	NC_021162.1	Ca_kabuli_chr03	2631589	GG	AA	1946767543
SNP_P4_27960_2631593	NC_021162.1	Ca_kabuli_chr03	2631593	TT	CC	1946767545
SNP_P4_27961_2631635	NC_021162.1	Ca_kabuli_chr03	2631635	AA	GG	1946767547
SNP_P4_27962_2631666	NC_021162.1	Ca_kabuli_chr03	2631666	GG	AA	1946767549
SNP_P4_27963_2631680	NC_021162.1	Ca_kabuli_chr03	2631680	TT	CC	1946767551
SNP_P4_27964_2648298	NC_021162.1	Ca_kabuli_chr03	2648298	AA	GG	1946767553
SNP_P4_27965_2652312	NC_021162.1	Ca_kabuli_chr03	2652312	GG	TT	1946767555
SNP_P4_27967_2653903	NC_021162.1	Ca_kabuli_chr03	2653903	CC	TT	1946767557
SNP_P4_27968_2685944	NC_021162.1	Ca_kabuli_chr03	2685944	AA	GG	1946767559
SNP_P4_27969_2685961	NC_021162.1	Ca_kabuli_chr03	2685961	TT	GG	1946767561
SNP_P4_27970_2686345	NC_021162.1	Ca_kabuli_chr03	2686345	GG	AA	1946767563
SNP_P4_27971_2717615	NC_021162.1	Ca_kabuli_chr03	2717615	TT	CC	1946767565
SNP_P4_27972_2717674	NC_021162.1	Ca_kabuli_chr03	2717674	GG	AA	1946767567
SNP_P4_27973_2717687	NC_021162.1	Ca_kabuli_chr03	2717687	AA	GG	1946767569
SNP_P4_27975_2736906	NC_021162.1	Ca_kabuli_chr03	2736906	CC	TT	1946767571
SNP_P4_27976_2753957	NC_021162.1	Ca_kabuli_chr03	2753957	CC	AA	1946767573
SNP_P4_27977_2762293	NC_021162.1	Ca_kabuli_chr03	2762293	TT	AA	1946767575
SNP_P4_27979_2762578	NC_021162.1	Ca_kabuli_chr03	2762578	CC	AA	1946767577
SNP_P4_27980_2764763	NC_021162.1	Ca_kabuli_chr03	2764763	CC	TT	1946767579
SNP_P4_27981_2767612	NC_021162.1	Ca_kabuli_chr03	2767612	TT	CC	1946767581
SNP_P4_27982_2777291	NC_021162.1	Ca_kabuli_chr03	2777291	TT	CC	1946767583
SNP_P4_27983_2814666	NC_021162.1	Ca_kabuli_chr03	2814666	TT	GG	1946767585
SNP_P4_27984_2820334	NC_021162.1	Ca_kabuli_chr03	2820334	AA	TT	1946767587
SNP_P4_27985_2821622	NC_021162.1	Ca_kabuli_chr03	2821622	TT	AA	1946767589
SNP_P4_27986_2843474	NC_021162.1	Ca_kabuli_chr03	2843474	TT	CC	1946767591
SNP_P4_27987_2854997	NC_021162.1	Ca_kabuli_chr03	2854997	AA	GG	1946767593
SNP_P4_27988_2855217	NC_021162.1	Ca_kabuli_chr03	2855217	GG	AA	1946767596
SNP_P4_27989_2855225	NC_021162.1	Ca_kabuli_chr03	2855225	CC	TT	1946767598
SNP_P4_27990_2855246	NC_021162.1	Ca_kabuli_chr03	2855246	GG	CC	1946767600
SNP_P4_27991_2855268	NC_021162.1	Ca_kabuli_chr03	2855268	CC	TT	1946767602
SNP_P4_27992_2855322	NC_021162.1	Ca_kabuli_chr03	2855322	TT	CC	1946767604
SNP_P4_27993_2855344	NC_021162.1	Ca_kabuli_chr03	2855344	AA	GG	1946767606
SNP_P4_27994_2855360	NC_021162.1	Ca_kabuli_chr03	2855360	CC	TT	1946767608
SNP_P4_27995_2855379	NC_021162.1	Ca_kabuli_chr03	2855379	TT	GG	1946767610

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_27997_2855408	NC_021162.1	Ca_kabuli_chr03	2855408	AA	GG	1946767614
SNP_P4_27998_2855431	NC_021162.1	Ca_kabuli_chr03	2855431	AA	GG	1946767616
SNP_P4_27999_2855441	NC_021162.1	Ca_kabuli_chr03	2855441	AA	GG	1946767618
SNP_P4_28000_2855486	NC_021162.1	Ca_kabuli_chr03	2855486	TT	GG	1946767620
SNP_P4_28001_2855488	NC_021162.1	Ca_kabuli_chr03	2855488	AA	GG	1946767622
SNP_P4_28002_2855512	NC_021162.1	Ca_kabuli_chr03	2855512	AA	TT	1946767624
SNP_P4_28003_2855532	NC_021162.1	Ca_kabuli_chr03	2855532	AA	GG	1946767626
SNP_P4_28004_2855540	NC_021162.1	Ca_kabuli_chr03	2855540	AA	TT	1946767628
SNP_P4_28005_2855550	NC_021162.1	Ca_kabuli_chr03	2855550	TT	CC	1946767630
SNP_P4_28006_2855608	NC_021162.1	Ca_kabuli_chr03	2855608	CC	TT	1946767632
SNP_P4_28007_2855611	NC_021162.1	Ca_kabuli_chr03	2855611	CC	TT	1946767634
SNP_P4_28008_2855612	NC_021162.1	Ca_kabuli_chr03	2855612	CC	AA	1946767636
SNP_P4_28009_2855676	NC_021162.1	Ca_kabuli_chr03	2855676	GG	TT	1946767638
SNP_P4_28010_2855741	NC_021162.1	Ca_kabuli_chr03	2855741	CC	GG	1946767640
SNP_P4_28011_2855776	NC_021162.1	Ca_kabuli_chr03	2855776	AA	GG	1946767642
SNP_P4_28013_2855803	NC_021162.1	Ca_kabuli_chr03	2855803	AA	CC	1946767644
SNP_P4_28014_2855812	NC_021162.1	Ca_kabuli_chr03	2855812	TT	CC	1946767646
SNP_P4_28015_2855848	NC_021162.1	Ca_kabuli_chr03	2855848	CC	AA	1946767648
SNP_P4_28016_2855858	NC_021162.1	Ca_kabuli_chr03	2855858	GG	TT	1946767650
SNP_P4_28017_2855949	NC_021162.1	Ca_kabuli_chr03	2855949	GG	AA	1946767652
SNP_P4_28018_2855965	NC_021162.1	Ca_kabuli_chr03	2855965	CC	GG	1946767654
SNP_P4_28020_2856020	NC_021162.1	Ca_kabuli_chr03	2856020	CC	GG	1946767656
SNP_P4_28021_2856038	NC_021162.1	Ca_kabuli_chr03	2856038	TT	CC	1946767658
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SNP_P4_28025_2856311	NC_021162.1	Ca_kabuli_chr03	2856311	CC	GG	1946767667
SNP_P4_28026_2856321	NC_021162.1	Ca_kabuli_chr03	2856321	AA	CC	1946767669
SNP_P4_28027_2856361	NC_021162.1	Ca_kabuli_chr03	2856361	CC	TT	1946767671
SNP_P4_28028_2856380	NC_021162.1	Ca_kabuli_chr03	2856380	AA	GG	1946767673
SNP_P4_28029_2856390	NC_021162.1	Ca_kabuli_chr03	2856390	TT	CC	1946767675
SNP_P4_28030_2856406	NC_021162.1	Ca_kabuli_chr03	2856406	GG	AA	1946767677
SNP_P4_28031_2856436	NC_021162.1	Ca_kabuli_chr03	2856436	AA	CC	1946767679
SNP_P4_28032_2856468	NC_021162.1	Ca_kabuli_chr03	2856468	AA	GG	1946767681
SNP_P4_28033_2856497	NC_021162.1	Ca_kabuli_chr03	2856497	GG	TT	1946767683
SNP_P4_28034_2856521	NC_021162.1	Ca_kabuli_chr03	2856521	TT	AA	1946767685
SNP_P4_28035_2856523	NC_021162.1	Ca_kabuli_chr03	2856523	CC	TT	1946767687
SNP_P4_28036_2856540	NC_021162.1	Ca_kabuli_chr03	2856540	TT	CC	1946767689
SNP_P4_28037_2856545	NC_021162.1	Ca_kabuli_chr03	2856545	GG	TT	1946767691
SNP_P4_28038_2856551	NC_021162.1	Ca_kabuli_chr03	2856551	GG	AA	1946767693
SNP_P4_28039_2856560	NC_021162.1	Ca_kabuli_chr03	2856560	TT	AA	1946767695

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_28042_2858389	NC_021162.1	Ca_kabuli_chr03	2858389	GG	AA	1946767702
SNP_P4_28043_2858426	NC_021162.1	Ca_kabuli_chr03	2858426	GG	AA	1946767704
SNP_P4_28044_2858428	NC_021162.1	Ca_kabuli_chr03	2858428	AA	GG	1946767706
SNP_P4_28045_2858551	NC_021162.1	Ca_kabuli_chr03	2858551	CC	TT	1946767708
SNP_P4_28046_2858718	NC_021162.1	Ca_kabuli_chr03	2858718	GG	TT	1946767710
SNP_P4_28047_2858726	NC_021162.1	Ca_kabuli_chr03	2858726	CC	TT	1946767712
SNP_P4_28048_2860446	NC_021162.1	Ca_kabuli_chr03	2860446	AA	GG	1946767714
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SNP_P4_28051_2954902	NC_021162.1	Ca_kabuli_chr03	2954902	TT	CC	1946767718
SNP_P4_28052_2962126	NC_021162.1	Ca_kabuli_chr03	2962126	AA	GG	1946767721
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SNP_P4_28062_3120516	NC_021162.1	Ca_kabuli_chr03	3120516	TT	AA	1946767735
SNP_P4_28063_3120524	NC_021162.1	Ca_kabuli_chr03	3120524	AA	GG	1946767737
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SNP_P4_28065_3121606	NC_021162.1	Ca_kabuli_chr03	3121606	AA	GG	1946767741
SNP_P4_28066_3121942	NC_021162.1	Ca_kabuli_chr03	3121942	CC	TT	1946767743
SNP_P4_28067_3121973	NC_021162.1	Ca_kabuli_chr03	3121973	CC	AA	1946767746
SNP_P4_28068_3121992	NC_021162.1	Ca_kabuli_chr03	3121992	AA	CC	1946767748
SNP_P4_28069_3125300	NC_021162.1	Ca_kabuli_chr03	3125300	AA	GG	1946767750
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SNP_P4_28071_3128005	NC_021162.1	Ca_kabuli_chr03	3128005	GG	CC	1946767754
SNP_P4_28072_3128996	NC_021162.1	Ca_kabuli_chr03	3128996	AA	GG	1946767756
SNP_P4_28073_3129016	NC_021162.1	Ca_kabuli_chr03	3129016	GG	AA	1946767758
SNP_P4_28074_3129049	NC_021162.1	Ca_kabuli_chr03	3129049	TT	GG	1946767760
SNP_P4_28075_3129520	NC_021162.1	Ca_kabuli_chr03	3129520	TT	CC	1946767763
SNP_P4_28076_3129527	NC_021162.1	Ca_kabuli_chr03	3129527	CC	AA	1946767765
SNP_P4_28077_3129547	NC_021162.1	Ca_kabuli_chr03	3129547	CC	TT	1946767767
SNP_P4_28078_3134489	NC_021162.1	Ca_kabuli_chr03	3134489	CC	TT	1946767769
SNP_P4_28079_3146708	NC_021162.1	Ca_kabuli_chr03	3146708	TT	CC	1946767771
SNP_P4_28080_3148817	NC_021162.1	Ca_kabuli_chr03	3148817	GG	AA	1946767773
SNP_P4_28081_3148846	NC_021162.1	Ca_kabuli_chr03	3148846	AA	TT	1946767775
SNP_P4_28082_3149542	NC_021162.1	Ca_kabuli_chr03	3149542	GG	AA	1946767777
SNP_P4_28083_3149765	NC_021162.1	Ca_kabuli_chr03	3149765	TT	CC	1946767779
SNP_P4_28084_3150006	NC_021162.1	Ca_kabuli_chr03	3150006	TT	CC	1946767781
SNP_P4_28085_3151408	NC_021162.1	Ca_kabuli_chr03	3151408	CC	TT	1946767783

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_28086_3151424	NC_021162.1	Ca_kabuli_chr03	3151424	CC	TT	1946767785
SNP_P4_28087_3162032	NC_021162.1	Ca_kabuli_chr03	3162032	GG	TT	1946767787
SNP_P4_28088_3163571	NC_021162.1	Ca_kabuli_chr03	3163571	TT	GG	1946767789
SNP_P4_28089_3170206	NC_021162.1	Ca_kabuli_chr03	3170206	AA	GG	1946767791
SNP_P4_28090_3170208	NC_021162.1	Ca_kabuli_chr03	3170208	TT	CC	1946767793
SNP_P4_28091_3170792	NC_021162.1	Ca_kabuli_chr03	3170792	AA	GG	1946767795
SNP_P4_28092_3170936	NC_021162.1	Ca_kabuli_chr03	3170936	GG	AA	1946767797
SNP_P4_28093_3182319	NC_021162.1	Ca_kabuli_chr03	3182319	TT	GG	1946767799
SNP_P4_28094_3182517	NC_021162.1	Ca_kabuli_chr03	3182517	CC	TT	1946767801
SNP_P4_28095_3183613	NC_021162.1	Ca_kabuli_chr03	3183613	GG	AA	1946767803
SNP_P4_28096_3183771	NC_021162.1	Ca_kabuli_chr03	3183771	AA	CC	1946767805
SNP_P4_28098_3185950	NC_021162.1	Ca_kabuli_chr03	3185950	GG	CC	1946767807
SNP_P4_28099_3186199	NC_021162.1	Ca_kabuli_chr03	3186199	CC	TT	1946767809
SNP_P4_28100_3234990	NC_021162.1	Ca_kabuli_chr03	3234990	TT	CC	1946767811
SNP_P4_28101_3235086	NC_021162.1	Ca_kabuli_chr03	3235086	AA	CC	1946767814
SNP_P4_28102_3235102	NC_021162.1	Ca_kabuli_chr03	3235102	CC	AA	1946767816
SNP_P4_28103_3235163	NC_021162.1	Ca_kabuli_chr03	3235163	GG	CC	1946767818
SNP_P4_28104_3235263	NC_021162.1	Ca_kabuli_chr03	3235263	CC	AA	1946767820
SNP_P4_28106_3235371	NC_021162.1	Ca_kabuli_chr03	3235371	TT	CC	1946767822
SNP_P4_28107_3235442	NC_021162.1	Ca_kabuli_chr03	3235442	AA	GG	1946767824
SNP_P4_28109_3235487	NC_021162.1	Ca_kabuli_chr03	3235487	TT	GG	1946767826
SNP_P4_28110_3235491	NC_021162.1	Ca_kabuli_chr03	3235491	CC	TT	1946767828
SNP_P4_28111_3235536	NC_021162.1	Ca_kabuli_chr03	3235536	AA	GG	1946767830
SNP_P4_28113_3235751	NC_021162.1	Ca_kabuli_chr03	3235751	TT	CC	1946767832
SNP_P4_28114_3235789	NC_021162.1	Ca_kabuli_chr03	3235789	CC	AA	1946767834
SNP_P4_28115_3235799	NC_021162.1	Ca_kabuli_chr03	3235799	CC	AA	1946767836
SNP_P4_28116_3235814	NC_021162.1	Ca_kabuli_chr03	3235814	GG	CC	1946767838
SNP_P4_28117_3235887	NC_021162.1	Ca_kabuli_chr03	3235887	GG	TT	1946767840
SNP_P4_28118_3252066	NC_021162.1	Ca_kabuli_chr03	3252066	GG	TT	1946767842
SNP_P4_28119_3267300	NC_021162.1	Ca_kabuli_chr03	3267300	TT	GG	1946767844
SNP_P4_28120_3267322	NC_021162.1	Ca_kabuli_chr03	3267322	CC	TT	1946767846
SNP_P4_28121_3267324	NC_021162.1	Ca_kabuli_chr03	3267324	CC	TT	1946767848
SNP_P4_28122_3267337	NC_021162.1	Ca_kabuli_chr03	3267337	GG	AA	1946767851
SNP_P4_28123_3289512	NC_021162.1	Ca_kabuli_chr03	3289512	AA	TT	1946767853
SNP_P4_28124_3289590	NC_021162.1	Ca_kabuli_chr03	3289590	TT	GG	1946767855
SNP_P4_28125_3289845	NC_021162.1	Ca_kabuli_chr03	3289845	GG	AA	1946767857
SNP_P4_28126_3289860	NC_021162.1	Ca_kabuli_chr03	3289860	AA	GG	1946767860
SNP_P4_28127_3289890	NC_021162.1	Ca_kabuli_chr03	3289890	TT	CC	1946767862
SNP_P4_28128_3289913	NC_021162.1	Ca_kabuli_chr03	3289913	AA	TT	1946767864
SNP_P4_28129_3289952	NC_021162.1	Ca_kabuli_chr03	3289952	TT	CC	1946767866
SNP_P4_28130_3291424	NC_021162.1	Ca_kabuli_chr03	3291424	GG	AA	1946767868
SNP_P4_28131_3291445	NC_021162.1	Ca_kabuli_chr03	3291445	GG	AA	1946767870

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_28132_3291641	NC_021162.1	Ca_kabuli_chr03	3291641	AA	GG	1946767872
SNP_P4_28133_3291656	NC_021162.1	Ca_kabuli_chr03	3291656	GG	TT	1946767874
SNP_P4_28134_3291688	NC_021162.1	Ca_kabuli_chr03	3291688	GG	AA	1946767876
SNP_P4_28135_3291697	NC_021162.1	Ca_kabuli_chr03	3291697	AA	GG	1946767878
SNP_P4_28136_3291742	NC_021162.1	Ca_kabuli_chr03	3291742	GG	AA	1946767880
SNP_P4_28137_3291746	NC_021162.1	Ca_kabuli_chr03	3291746	CC	TT	1946767883
SNP_P4_28139_3291760	NC_021162.1	Ca_kabuli_chr03	3291760	TT	CC	1946767885
SNP_P4_28140_3291907	NC_021162.1	Ca_kabuli_chr03	3291907	CC	AA	1946767887
SNP_P4_28141_3291912	NC_021162.1	Ca_kabuli_chr03	3291912	GG	AA	1946767889
SNP_P4_28142_3291932	NC_021162.1	Ca_kabuli_chr03	3291932	CC	TT	1946767891
SNP_P4_28143_3292249	NC_021162.1	Ca_kabuli_chr03	3292249	GG	AA	1946767893
SNP_P4_28144_3292264	NC_021162.1	Ca_kabuli_chr03	3292264	GG	AA	1946767896
SNP_P4_28145_3292279	NC_021162.1	Ca_kabuli_chr03	3292279	TT	CC	1946767898
SNP_P4_28146_3305977	NC_021162.1	Ca_kabuli_chr03	3305977	AA	GG	1946767900
SNP_P4_28147_3306450	NC_021162.1	Ca_kabuli_chr03	3306450	AA	GG	1946767902
SNP_P4_28148_3306454	NC_021162.1	Ca_kabuli_chr03	3306454	GG	TT	1946767904
SNP_P4_28149_3306541	NC_021162.1	Ca_kabuli_chr03	3306541	TT	CC	1946767907
SNP_P4_28150_3306567	NC_021162.1	Ca_kabuli_chr03	3306567	AA	GG	1946767909
SNP_P4_28151_3306586	NC_021162.1	Ca_kabuli_chr03	3306586	TT	CC	1946767911
SNP_P4_28152_3306929	NC_021162.1	Ca_kabuli_chr03	3306929	GG	AA	1946767913
SNP_P4_28154_3330588	NC_021162.1	Ca_kabuli_chr03	3330588	AA	GG	1946767915
SNP_P4_28155_3334665	NC_021162.1	Ca_kabuli_chr03	3334665	AA	GG	1946767917
SNP_P4_28157_3339551	NC_021162.1	Ca_kabuli_chr03	3339551	GG	AA	1946767919
SNP_P4_28159_3340463	NC_021162.1	Ca_kabuli_chr03	3340463	GG	TT	1946767921
SNP_P4_28160_3341235	NC_021162.1	Ca_kabuli_chr03	3341235	TT	CC	1946767923
SNP_P4_28161_3344161	NC_021162.1	Ca_kabuli_chr03	3344161	GG	AA	1946767925
SNP_P4_28163_3372078	NC_021162.1	Ca_kabuli_chr03	3372078	AA	GG	1946767927
SNP_P4_28164_3388500	NC_021162.1	Ca_kabuli_chr03	3388500	GG	AA	1946767929
SNP_P4_28165_3392065	NC_021162.1	Ca_kabuli_chr03	3392065	AA	TT	1946767931
SNP_P4_28167_3392493	NC_021162.1	Ca_kabuli_chr03	3392493	TT	GG	1946767933
SNP_P4_28168_3392498	NC_021162.1	Ca_kabuli_chr03	3392498	TT	AA	1946767935
SNP_P4_28170_3418278	NC_021162.1	Ca_kabuli_chr03	3418278	CC	TT	1946767937
SNP_P4_28171_3433601	NC_021162.1	Ca_kabuli_chr03	3433601	CC	GG	1946767939
SNP_P4_28172_3435889	NC_021162.1	Ca_kabuli_chr03	3435889	CC	GG	1946767941
SNP_P4_28173_3439088	NC_021162.1	Ca_kabuli_chr03	3439088	CC	AA	1946767943
SNP_P4_28174_3449815	NC_021162.1	Ca_kabuli_chr03	3449815	AA	TT	1946767945
SNP_P4_28175_3478152	NC_021162.1	Ca_kabuli_chr03	3478152	GG	AA	1946767947
SNP_P4_28176_3478215	NC_021162.1	Ca_kabuli_chr03	3478215	TT	GG	1946767949
SNP_P4_28177_3478363	NC_021162.1	Ca_kabuli_chr03	3478363	AA	GG	1946767951
SNP_P4_28178_3493567	NC_021162.1	Ca_kabuli_chr03	3493567	CC	TT	1946767953
SNP_P4_28179_3497374	NC_021162.1	Ca_kabuli_chr03	3497374	TT	AA	1946767955
SNP_P4_28180_3497385	NC_021162.1	Ca_kabuli_chr03	3497385	CC	TT	1946767957

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_28181_3498053	NC_021162.1	Ca_kabuli_chr03	3498053	CC	GG	1946767959
SNP_P4_28182_3503317	NC_021162.1	Ca_kabuli_chr03	3503317	GG	CC	1946767961
SNP_P4_28183_3503322	NC_021162.1	Ca_kabuli_chr03	3503322	GG	AA	1946767963
SNP_P4_28184_3503630	NC_021162.1	Ca_kabuli_chr03	3503630	TT	CC	1946767965
SNP_P4_28185_3503812	NC_021162.1	Ca_kabuli_chr03	3503812	AA	TT	1946767967
SNP_P4_28186_3504430	NC_021162.1	Ca_kabuli_chr03	3504430	GG	TT	1946767969
SNP_P4_28187_3515905	NC_021162.1	Ca_kabuli_chr03	3515905	AA	CC	1946767971
SNP_P4_28188_3517247	NC_021162.1	Ca_kabuli_chr03	3517247	AA	TT	1946767973
SNP_P4_28189_3517248	NC_021162.1	Ca_kabuli_chr03	3517248	CC	TT	1946767975
SNP_P4_28190_3517501	NC_021162.1	Ca_kabuli_chr03	3517501	GG	AA	1946767977
SNP_P4_28191_3517564	NC_021162.1	Ca_kabuli_chr03	3517564	AA	TT	1946767979
SNP_P4_28192_3517583	NC_021162.1	Ca_kabuli_chr03	3517583	CC	TT	1946767981
SNP_P4_28193_3517871	NC_021162.1	Ca_kabuli_chr03	3517871	TT	GG	1946767983
SNP_P4_28194_3517940	NC_021162.1	Ca_kabuli_chr03	3517940	GG	TT	1946767985
SNP_P4_28195_3517966	NC_021162.1	Ca_kabuli_chr03	3517966	GG	TT	1946767987
SNP_P4_28196_3519734	NC_021162.1	Ca_kabuli_chr03	3519734	AA	CC	1946767990
SNP_P4_28197_3519742	NC_021162.1	Ca_kabuli_chr03	3519742	TT	GG	1946767992
SNP_P4_28199_3531593	NC_021162.1	Ca_kabuli_chr03	3531593	CC	AA	1946767994
SNP_P4_28200_3531756	NC_021162.1	Ca_kabuli_chr03	3531756	AA	TT	1946767996
SNP_P4_28201_3531996	NC_021162.1	Ca_kabuli_chr03	3531996	AA	TT	1946767998
SNP_P4_28202_3535079	NC_021162.1	Ca_kabuli_chr03	3535079	CC	TT	1946768000
SNP_P4_28203_3535509	NC_021162.1	Ca_kabuli_chr03	3535509	GG	TT	1946768002
SNP_P4_28204_3537147	NC_021162.1	Ca_kabuli_chr03	3537147	GG	CC	1946768004
SNP_P4_28205_3537176	NC_021162.1	Ca_kabuli_chr03	3537176	AA	GG	1946768006
SNP_P4_28206_3537311	NC_021162.1	Ca_kabuli_chr03	3537311	TT	CC	1946768008
SNP_P4_28207_3537312	NC_021162.1	Ca_kabuli_chr03	3537312	CC	AA	1946768010
SNP_P4_28208_3542315	NC_021162.1	Ca_kabuli_chr03	3542315	TT	GG	1946768012
SNP_P4_28209_3547098	NC_021162.1	Ca_kabuli_chr03	3547098	TT	CC	1946768014
SNP_P4_28210_3549849	NC_021162.1	Ca_kabuli_chr03	3549849	AA	GG	1946768016
SNP_P4_28211_3559067	NC_021162.1	Ca_kabuli_chr03	3559067	CC	GG	1946768018
SNP_P4_28212_3570363	NC_021162.1	Ca_kabuli_chr03	3570363	GG	CC	1946768020
SNP_P4_28213_3571122	NC_021162.1	Ca_kabuli_chr03	3571122	CC	TT	1946768022
SNP_P4_28214_3579643	NC_021162.1	Ca_kabuli_chr03	3579643	GG	AA	1946768024
SNP_P4_28215_3580599	NC_021162.1	Ca_kabuli_chr03	3580599	GG	AA	1946768026
SNP_P4_28216_3580684	NC_021162.1	Ca_kabuli_chr03	3580684	TT	CC	1946768028
SNP_P4_28217_3587340	NC_021162.1	Ca_kabuli_chr03	3587340	CC	TT	1946768030
SNP_P4_28218_3608245	NC_021162.1	Ca_kabuli_chr03	3608245	AA	TT	1946768032
SNP_P4_28222_3640041	NC_021162.1	Ca_kabuli_chr03	3640041	AA	GG	1946768034
SNP_P4_28223_3643471	NC_021162.1	Ca_kabuli_chr03	3643471	CC	TT	1946768036
SNP_P4_28224_3646793	NC_021162.1	Ca_kabuli_chr03	3646793	AA	GG	1946768038
SNP_P4_28225_3695727	NC_021162.1	Ca_kabuli_chr03	3695727	AA	CC	1946768040
SNP_P4_28229_3725133	NC_021162.1	Ca_kabuli_chr03	3725133	GG	AA	1946768042

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_28231_3730911	NC_021162.1	Ca_kabuli_chr03	3730911	TT	AA	1946768046
SNP_P4_28232_3730938	NC_021162.1	Ca_kabuli_chr03	3730938	AA	GG	1946768048
SNP_P4_28233_3730953	NC_021162.1	Ca_kabuli_chr03	3730953	GG	AA	1946768050
SNP_P4_28234_3730962	NC_021162.1	Ca_kabuli_chr03	3730962	TT	CC	1946768052
SNP_P4_28235_3730987	NC_021162.1	Ca_kabuli_chr03	3730987	AA	GG	1946768054
SNP_P4_28236_3731127	NC_021162.1	Ca_kabuli_chr03	3731127	AA	CC	1946768056
SNP_P4_28237_3731382	NC_021162.1	Ca_kabuli_chr03	3731382	AA	GG	1946768058
SNP_P4_28238_3731403	NC_021162.1	Ca_kabuli_chr03	3731403	GG	AA	1946768060
SNP_P4_28239_3731404	NC_021162.1	Ca_kabuli_chr03	3731404	AA	CC	1946768062
SNP_P4_28240_3731452	NC_021162.1	Ca_kabuli_chr03	3731452	AA	GG	1946768064
SNP_P4_28241_3731466	NC_021162.1	Ca_kabuli_chr03	3731466	TT	AA	1946768066
SNP_P4_28242_3731482	NC_021162.1	Ca_kabuli_chr03	3731482	CC	GG	1946768068
SNP_P4_28243_3734857	NC_021162.1	Ca_kabuli_chr03	3734857	TT	CC	1946768070
SNP_P4_28244_3734918	NC_021162.1	Ca_kabuli_chr03	3734918	TT	CC	1946768072
SNP_P4_28245_3734973	NC_021162.1	Ca_kabuli_chr03	3734973	AA	CC	1946768074
SNP_P4_28246_3735629	NC_021162.1	Ca_kabuli_chr03	3735629	CC	GG	1946768076
SNP_P4_28247_3788990	NC_021162.1	Ca_kabuli_chr03	3788990	AA	TT	1946768078
SNP_P4_28248_3788991	NC_021162.1	Ca_kabuli_chr03	3788991	GG	AA	1946768080
SNP_P4_28249_3789150	NC_021162.1	Ca_kabuli_chr03	3789150	CC	TT	1946768082
SNP_P4_28250_3789174	NC_021162.1	Ca_kabuli_chr03	3789174	TT	CC	1946768084
SNP_P4_28251_3789202	NC_021162.1	Ca_kabuli_chr03	3789202	TT	CC	1946768086
SNP_P4_28252_3789378	NC_021162.1	Ca_kabuli_chr03	3789378	AA	GG	1946768088
SNP_P4_28253_3789385	NC_021162.1	Ca_kabuli_chr03	3789385	GG	AA	1946768090
SNP_P4_28254_3804511	NC_021162.1	Ca_kabuli_chr03	3804511	CC	TT	1946768092
SNP_P4_28255_3804516	NC_021162.1	Ca_kabuli_chr03	3804516	CC	TT	1946768094
SNP_P4_28256_3804555	NC_021162.1	Ca_kabuli_chr03	3804555	AA	GG	1946768096
SNP_P4_28257_3804622	NC_021162.1	Ca_kabuli_chr03	3804622	TT	GG	1946768098
SNP_P4_28258_3804638	NC_021162.1	Ca_kabuli_chr03	3804638	CC	TT	1946768100
SNP_P4_28259_3804657	NC_021162.1	Ca_kabuli_chr03	3804657	TT	GG	1946768102
SNP_P4_28262_3818085	NC_021162.1	Ca_kabuli_chr03	3818085	AA	GG	1946768104
SNP_P4_28263_3818120	NC_021162.1	Ca_kabuli_chr03	3818120	AA	GG	1946768106
SNP_P4_28264_3818135	NC_021162.1	Ca_kabuli_chr03	3818135	CC	GG	1946768108
SNP_P4_28265_3827997	NC_021162.1	Ca_kabuli_chr03	3827997	AA	GG	1946768110
SNP_P4_28266_3836419	NC_021162.1	Ca_kabuli_chr03	3836419	AA	CC	1946768112
SNP_P4_28267_3836998	NC_021162.1	Ca_kabuli_chr03	3836998	AA	GG	1946768114
SNP_P4_28268_3841610	NC_021162.1	Ca_kabuli_chr03	3841610	CC	TT	1946768116
SNP_P4_28269_3844053	NC_021162.1	Ca_kabuli_chr03	3844053	GG	AA	1946768118
SNP_P4_28270_3844124	NC_021162.1	Ca_kabuli_chr03	3844124	GG	AA	1946768120
SNP_P4_28271_3857043	NC_021162.1	Ca_kabuli_chr03	3857043	GG	CC	1946768122
SNP_P4_28272_3866345	NC_021162.1	Ca_kabuli_chr03	3866345	CC	AA	1946768124
SNP_P4_28273_3884249	NC_021162.1	Ca_kabuli_chr03	3884249	TT	GG	1946768126

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_28276_3902525	NC_021162.1	Ca_kabuli_chr03	3902525	AA	TT	1946768130
SNP_P4_28277_3918315	NC_021162.1	Ca_kabuli_chr03	3918315	GG	CC	1946768132
SNP_P4_28278_3924273	NC_021162.1	Ca_kabuli_chr03	3924273	GG	AA	1946768134
SNP_P4_28279_3929638	NC_021162.1	Ca_kabuli_chr03	3929638	TT	CC	1946768136
SNP_P4_28281_3962903	NC_021162.1	Ca_kabuli_chr03	3962903	TT	CC	1946768138
SNP_P4_28282_3962965	NC_021162.1	Ca_kabuli_chr03	3962965	GG	AA	1946768140
SNP_P4_28283_3963012	NC_021162.1	Ca_kabuli_chr03	3963012	TT	GG	1946768142
SNP_P4_28284_3963025	NC_021162.1	Ca_kabuli_chr03	3963025	AA	TT	1946768144
SNP_P4_28285_3963159	NC_021162.1	Ca_kabuli_chr03	3963159	TT	CC	1946768146
SNP_P4_28286_3963178	NC_021162.1	Ca_kabuli_chr03	3963178	GG	AA	1946768148
SNP_P4_28287_3963192	NC_021162.1	Ca_kabuli_chr03	3963192	CC	TT	1946768150
SNP_P4_28288_3963202	NC_021162.1	Ca_kabuli_chr03	3963202	AA	GG	1946768152
SNP_P4_28289_3963208	NC_021162.1	Ca_kabuli_chr03	3963208	AA	TT	1946768154
SNP_P4_28290_3963213	NC_021162.1	Ca_kabuli_chr03	3963213	GG	AA	1946768156
SNP_P4_28291_3963246	NC_021162.1	Ca_kabuli_chr03	3963246	CC	TT	1946768158
SNP_P4_28293_3966350	NC_021162.1	Ca_kabuli_chr03	3966350	AA	TT	1946768160
SNP_P4_28294_3966358	NC_021162.1	Ca_kabuli_chr03	3966358	AA	GG	1946768162
SNP_P4_28295_3966374	NC_021162.1	Ca_kabuli_chr03	3966374	GG	AA	1946768164
SNP_P4_28296_3974855	NC_021162.1	Ca_kabuli_chr03	3974855	GG	AA	1946768166
SNP_P4_28297_3974935	NC_021162.1	Ca_kabuli_chr03	3974935	GG	CC	1946768168
SNP_P4_28298_3974947	NC_021162.1	Ca_kabuli_chr03	3974947	AA	CC	1946768170
SNP_P4_28299_3974949	NC_021162.1	Ca_kabuli_chr03	3974949	GG	AA	1946768172
SNP_P4_28300_3976821	NC_021162.1	Ca_kabuli_chr03	3976821	AA	GG	1946768174
SNP_P4_28301_3977983	NC_021162.1	Ca_kabuli_chr03	3977983	GG	AA	1946768176
SNP_P4_28302_3977987	NC_021162.1	Ca_kabuli_chr03	3977987	AA	GG	1946768178
SNP_P4_28303_3978022	NC_021162.1	Ca_kabuli_chr03	3978022	GG	TT	1946768180
SNP_P4_28304_3981751	NC_021162.1	Ca_kabuli_chr03	3981751	CC	AA	1946768182
SNP_P4_28305_3996746	NC_021162.1	Ca_kabuli_chr03	3996746	GG	AA	1946768184
SNP_P4_28306_4006992	NC_021162.1	Ca_kabuli_chr03	4006992	TT	GG	1946768186
SNP_P4_28307_4007005	NC_021162.1	Ca_kabuli_chr03	4007005	AA	GG	1946768188
SNP_P4_28308_4007029	NC_021162.1	Ca_kabuli_chr03	4007029	GG	AA	1946768190
SNP_P4_28309_4007371	NC_021162.1	Ca_kabuli_chr03	4007371	TT	GG	1946768192
SNP_P4_28310_4007385	NC_021162.1	Ca_kabuli_chr03	4007385	AA	CC	1946768194
SNP_P4_28311_4007402	NC_021162.1	Ca_kabuli_chr03	4007402	GG	AA	1946768196
SNP_P4_28312_4007421	NC_021162.1	Ca_kabuli_chr03	4007421	AA	GG	1946768198
SNP_P4_28313_4007426	NC_021162.1	Ca_kabuli_chr03	4007426	CC	TT	1946768200
SNP_P4_28314_4007428	NC_021162.1	Ca_kabuli_chr03	4007428	AA	CC	1946768202
SNP_P4_28315_4013536	NC_021162.1	Ca_kabuli_chr03	4013536	TT	CC	1946768204
SNP_P4_28316_4017297	NC_021162.1	Ca_kabuli_chr03	4017297	TT	AA	1946768207
SNP_P4_28317_4017551	NC_021162.1	Ca_kabuli_chr03	4017551	TT	AA	1946768209
SNP_P4_28319_4017698	NC_021162.1	Ca_kabuli_chr03	4017698	TT	CC	1946768211

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_28321_4017827	NC_021162.1	Ca_kabuli_chr03	4017827	GG	AA	1946768215
SNP_P4_28322_4027999	NC_021162.1	Ca_kabuli_chr03	4027999	TT	AA	1946768218
SNP_P4_28323_4035553	NC_021162.1	Ca_kabuli_chr03	4035553	AA	GG	1946768220
SNP_P4_28324_4035964	NC_021162.1	Ca_kabuli_chr03	4035964	AA	GG	1946768222
SNP_P4_28325_4035966	NC_021162.1	Ca_kabuli_chr03	4035966	TT	GG	1946768224
SNP_P4_28326_4036026	NC_021162.1	Ca_kabuli_chr03	4036026	AA	GG	1946768226
SNP_P4_28327_4036038	NC_021162.1	Ca_kabuli_chr03	4036038	CC	AA	1946768228
SNP_P4_28328_4036360	NC_021162.1	Ca_kabuli_chr03	4036360	GG	AA	1946768230
SNP_P4_28329_4040223	NC_021162.1	Ca_kabuli_chr03	4040223	CC	TT	1946768233
SNP_P4_28330_4041668	NC_021162.1	Ca_kabuli_chr03	4041668	AA	TT	1946768234
SNP_P4_28331_4052120	NC_021162.1	Ca_kabuli_chr03	4052120	TT	GG	1946768235
SNP_P4_28332_4052124	NC_021162.1	Ca_kabuli_chr03	4052124	CC	TT	1946768236
SNP_P4_28333_4056452	NC_021162.1	Ca_kabuli_chr03	4056452	CC	AA	1946768237
SNP_P4_28334_4056533	NC_021162.1	Ca_kabuli_chr03	4056533	AA	GG	1946768238
SNP_P4_28335_4056660	NC_021162.1	Ca_kabuli_chr03	4056660	TT	CC	1946768239
SNP_P4_28336_4073322	NC_021162.1	Ca_kabuli_chr03	4073322	TT	GG	1946768240
SNP_P4_28337_4073324	NC_021162.1	Ca_kabuli_chr03	4073324	GG	AA	1946768241
SNP_P4_28338_4073441	NC_021162.1	Ca_kabuli_chr03	4073441	TT	GG	1946768242
SNP_P4_28340_4076448	NC_021162.1	Ca_kabuli_chr03	4076448	CC	TT	1946768244
SNP_P4_28341_4076513	NC_021162.1	Ca_kabuli_chr03	4076513	TT	AA	1946768246
SNP_P4_28342_4076534	NC_021162.1	Ca_kabuli_chr03	4076534	AA	TT	1946768248
SNP_P4_28343_4076541	NC_021162.1	Ca_kabuli_chr03	4076541	AA	TT	1946768250
SNP_P4_28345_4098871	NC_021162.1	Ca_kabuli_chr03	4098871	GG	TT	1946768252
SNP_P4_28346_4098876	NC_021162.1	Ca_kabuli_chr03	4098876	GG	AA	1946768254
SNP_P4_28347_4098906	NC_021162.1	Ca_kabuli_chr03	4098906	CC	AA	1946768256
SNP_P4_28348_4098910	NC_021162.1	Ca_kabuli_chr03	4098910	TT	AA	1946768258
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SNP_P4_28350_4112529	NC_021162.1	Ca_kabuli_chr03	4112529	AA	GG	1946768262
SNP_P4_28351_4112590	NC_021162.1	Ca_kabuli_chr03	4112590	CC	TT	1946768264
SNP_P4_28352_4112891	NC_021162.1	Ca_kabuli_chr03	4112891	AA	GG	1946768266
SNP_P4_28353_4116914	NC_021162.1	Ca_kabuli_chr03	4116914	GG	TT	1946768268
SNP_P4_28354_4117381	NC_021162.1	Ca_kabuli_chr03	4117381	AA	CC	1946768270
SNP_P4_28355_4117418	NC_021162.1	Ca_kabuli_chr03	4117418	CC	TT	1946768272
SNP_P4_28356_4119785	NC_021162.1	Ca_kabuli_chr03	4119785	GG	TT	1946768274
SNP_P4_28361_4155186	NC_021162.1	Ca_kabuli_chr03	4155186	GG	CC	1946768276
SNP_P4_28362_4157947	NC_021162.1	Ca_kabuli_chr03	4157947	AA	GG	1946768278
SNP_P4_28363_4169292	NC_021162.1	Ca_kabuli_chr03	4169292	TT	AA	1946768280
SNP_P4_28364_4169315	NC_021162.1	Ca_kabuli_chr03	4169315	AA	TT	1946768282
SNP_P4_28365_4169398	NC_021162.1	Ca_kabuli_chr03	4169398	CC	TT	1946768284
SNP_P4_28367_4189784	NC_021162.1	Ca_kabuli_chr03	4189784	AA	GG	1946768287
SNP_P4_28368_4189805	NC_021162.1	Ca_kabuli_chr03	4189805	TT	GG	1946768289

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_28371_4212589	NC_021162.1	Ca_kabuli_chr03	4212589	TT	CC	1946768293
SNP_P4_28372_4215918	NC_021162.1	Ca_kabuli_chr03	4215918	TT	AA	1946768295
SNP_P4_28373_4231808	NC_021162.1	Ca_kabuli_chr03	4231808	AA	GG	1946768297
SNP_P4_28374_4232128	NC_021162.1	Ca_kabuli_chr03	4232128	AA	TT	1946768299
SNP_P4_28375_4232588	NC_021162.1	Ca_kabuli_chr03	4232588	GG	TT	1946768301
SNP_P4_28376_4232899	NC_021162.1	Ca_kabuli_chr03	4232899	CC	GG	1946768303
SNP_P4_28377_4264274	NC_021162.1	Ca_kabuli_chr03	4264274	AA	CC	1946768305
SNP_P4_28378_4267750	NC_021162.1	Ca_kabuli_chr03	4267750	GG	AA	1946768307
SNP_P4_28379_4267770	NC_021162.1	Ca_kabuli_chr03	4267770	TT	CC	1946768309
SNP_P4_28380_4270915	NC_021162.1	Ca_kabuli_chr03	4270915	GG	AA	1946768311
SNP_P4_28382_4294281	NC_021162.1	Ca_kabuli_chr03	4294281	GG	AA	1946768313
SNP_P4_28383_4301279	NC_021162.1	Ca_kabuli_chr03	4301279	AA	GG	1946768316
SNP_P4_28384_4307807	NC_021162.1	Ca_kabuli_chr03	4307807	CC	GG	1946768318
SNP_P4_28385_4307844	NC_021162.1	Ca_kabuli_chr03	4307844	AA	GG	1946768320
SNP_P4_28386_4307852	NC_021162.1	Ca_kabuli_chr03	4307852	AA	TT	1946768322
SNP_P4_28387_4307880	NC_021162.1	Ca_kabuli_chr03	4307880	TT	AA	1946768324
SNP_P4_28388_4308282	NC_021162.1	Ca_kabuli_chr03	4308282	CC	AA	1946768326
SNP_P4_28389_4308298	NC_021162.1	Ca_kabuli_chr03	4308298	CC	TT	1946768328
SNP_P4_28390_4316016	NC_021162.1	Ca_kabuli_chr03	4316016	GG	AA	1946768330
SNP_P4_28392_4372559	NC_021162.1	Ca_kabuli_chr03	4372559	AA	GG	1946768332
SNP_P4_28393_4374460	NC_021162.1	Ca_kabuli_chr03	4374460	TT	AA	1946768334
SNP_P4_28394_4382864	NC_021162.1	Ca_kabuli_chr03	4382864	GG	AA	1946768336
SNP_P4_28395_4385381	NC_021162.1	Ca_kabuli_chr03	4385381	CC	TT	1946768338
SNP_P4_28396_4411141	NC_021162.1	Ca_kabuli_chr03	4411141	CC	TT	1946768340
SNP_P4_28398_4517531	NC_021162.1	Ca_kabuli_chr03	4517531	CC	TT	1946768342
SNP_P4_28399_4536644	NC_021162.1	Ca_kabuli_chr03	4536644	GG	TT	1946768344
SNP_P4_28400_4536667	NC_021162.1	Ca_kabuli_chr03	4536667	CC	TT	1946768346
SNP_P4_28401_4536671	NC_021162.1	Ca_kabuli_chr03	4536671	CC	TT	1946768348
SNP_P4_28402_4541803	NC_021162.1	Ca_kabuli_chr03	4541803	CC	TT	1946768350
SNP_P4_28403_4562892	NC_021162.1	Ca_kabuli_chr03	4562892	AA	GG	1946768352
SNP_P4_28404_4611190	NC_021162.1	Ca_kabuli_chr03	4611190	TT	GG	1946768354
SNP_P4_28405_4611264	NC_021162.1	Ca_kabuli_chr03	4611264	GG	AA	1946768357
SNP_P4_28406_4611622	NC_021162.1	Ca_kabuli_chr03	4611622	AA	GG	1946768359
SNP_P4_28407_4611682	NC_021162.1	Ca_kabuli_chr03	4611682	CC	TT	1946768361
SNP_P4_28408_4611683	NC_021162.1	Ca_kabuli_chr03	4611683	GG	TT	1946768363
SNP_P4_28409_4619343	NC_021162.1	Ca_kabuli_chr03	4619343	CC	TT	1946768365
SNP_P4_28410_4619695	NC_021162.1	Ca_kabuli_chr03	4619695	TT	CC	1946768367
SNP_P4_28411_4622794	NC_021162.1	Ca_kabuli_chr03	4622794	AA	TT	1946768369
SNP_P4_28412_4623807	NC_021162.1	Ca_kabuli_chr03	4623807	TT	CC	1946768371
SNP_P4_28414_4671246	NC_021162.1	Ca_kabuli_chr03	4671246	TT	CC	1946768373
SNP_P4_28415_4688117	NC_021162.1	Ca_kabuli_chr03	4688117	GG	AA	1946768375

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_28418_4688258	NC_021162.1	Ca_kabuli_chr03	4688258	AA	GG	1946768379
SNP_P4_28419_4688269	NC_021162.1	Ca_kabuli_chr03	4688269	CC	TT	1946768381
SNP_P4_28420_4688327	NC_021162.1	Ca_kabuli_chr03	4688327	TT	GG	1946768383
SNP_P4_28421_4688383	NC_021162.1	Ca_kabuli_chr03	4688383	TT	CC	1946768386
SNP_P4_28422_4688500	NC_021162.1	Ca_kabuli_chr03	4688500	GG	AA	1946768388
SNP_P4_28423_4688552	NC_021162.1	Ca_kabuli_chr03	4688552	CC	AA	1946768390
SNP_P4_28424_4688556	NC_021162.1	Ca_kabuli_chr03	4688556	AA	GG	1946768392
SNP_P4_28425_4688709	NC_021162.1	Ca_kabuli_chr03	4688709	GG	TT	1946768394
SNP_P4_28426_4688770	NC_021162.1	Ca_kabuli_chr03	4688770	TT	AA	1946768396
SNP_P4_28427_4688799	NC_021162.1	Ca_kabuli_chr03	4688799	AA	TT	1946768399
SNP_P4_28428_4688867	NC_021162.1	Ca_kabuli_chr03	4688867	TT	AA	1946768401
SNP_P4_28429_4688868	NC_021162.1	Ca_kabuli_chr03	4688868	TT	AA	1946768403
SNP_P4_28430_4688885	NC_021162.1	Ca_kabuli_chr03	4688885	AA	GG	1946768405
SNP_P4_28431_4688894	NC_021162.1	Ca_kabuli_chr03	4688894	CC	TT	1946768407
SNP_P4_28432_4688901	NC_021162.1	Ca_kabuli_chr03	4688901	AA	CC	1946768409
SNP_P4_28433_4688940	NC_021162.1	Ca_kabuli_chr03	4688940	GG	AA	1946768411
SNP_P4_28434_4689021	NC_021162.1	Ca_kabuli_chr03	4689021	CC	TT	1946768413
SNP_P4_28435_4689029	NC_021162.1	Ca_kabuli_chr03	4689029	GG	AA	1946768415
SNP_P4_28436_4689053	NC_021162.1	Ca_kabuli_chr03	4689053	GG	CC	1946768417
SNP_P4_28437_4689098	NC_021162.1	Ca_kabuli_chr03	4689098	GG	AA	1946768419
SNP_P4_28439_4689205	NC_021162.1	Ca_kabuli_chr03	4689205	AA	TT	1946768421
SNP_P4_28440_4689310	NC_021162.1	Ca_kabuli_chr03	4689310	TT	CC	1946768423
SNP_P4_28441_4690885	NC_021162.1	Ca_kabuli_chr03	4690885	GG	CC	1946768425
SNP_P4_28442_4690886	NC_021162.1	Ca_kabuli_chr03	4690886	AA	CC	1946768427
SNP_P4_28443_4705074	NC_021162.1	Ca_kabuli_chr03	4705074	AA	TT	1946768429
SNP_P4_28444_4720312	NC_021162.1	Ca_kabuli_chr03	4720312	GG	AA	1946768431
SNP_P4_28445_4720317	NC_021162.1	Ca_kabuli_chr03	4720317	TT	GG	1946768433
SNP_P4_28446_4720319	NC_021162.1	Ca_kabuli_chr03	4720319	AA	CC	1946768435
SNP_P4_28447_4720392	NC_021162.1	Ca_kabuli_chr03	4720392	TT	CC	1946768437
SNP_P4_28448_4720557	NC_021162.1	Ca_kabuli_chr03	4720557	CC	AA	1946768439
SNP_P4_28449_4720572	NC_021162.1	Ca_kabuli_chr03	4720572	AA	GG	1946768441
SNP_P4_28450_4721986	NC_021162.1	Ca_kabuli_chr03	4721986	GG	AA	1946768443
SNP_P4_28451_4725321	NC_021162.1	Ca_kabuli_chr03	4725321	TT	CC	1946768445
SNP_P4_28452_4735959	NC_021162.1	Ca_kabuli_chr03	4735959	GG	CC	1946768447
SNP_P4_28453_4761112	NC_021162.1	Ca_kabuli_chr03	4761112	AA	GG	1946768449
SNP_P4_28454_4783877	NC_021162.1	Ca_kabuli_chr03	4783877	CC	TT	1946768451
SNP_P4_28455_4787227	NC_021162.1	Ca_kabuli_chr03	4787227	CC	TT	1946768453
SNP_P4_28456_4787230	NC_021162.1	Ca_kabuli_chr03	4787230	AA	CC	1946768455
SNP_P4_28457_4787283	NC_021162.1	Ca_kabuli_chr03	4787283	CC	TT	1946768457
SNP_P4_28458_4845876	NC_021162.1	Ca_kabuli_chr03	4845876	GG	AA	1946768459
SNP_P4_28459_4866726	NC_021162.1	Ca_kabuli_chr03	4866726	TT	CC	1946768461

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_28462_4894992	NC_021162.1	Ca_kabuli_chr03	4894992	CC	TT	1946768467
SNP_P4_28463_4894996	NC_021162.1	Ca_kabuli_chr03	4894996	TT	CC	1946768469
SNP_P4_28464_4895009	NC_021162.1	Ca_kabuli_chr03	4895009	AA	GG	1946768471
SNP_P4_28466_4945359	NC_021162.1	Ca_kabuli_chr03	4945359	CC	TT	1946768473
SNP_P4_28467_4945391	NC_021162.1	Ca_kabuli_chr03	4945391	GG	CC	1946768475
SNP_P4_28468_4946063	NC_021162.1	Ca_kabuli_chr03	4946063	AA	CC	1946768477
SNP_P4_28469_4946277	NC_021162.1	Ca_kabuli_chr03	4946277	TT	CC	1946768479
SNP_P4_28470_4952174	NC_021162.1	Ca_kabuli_chr03	4952174	AA	CC	1946768481
SNP_P4_28471_4952236	NC_021162.1	Ca_kabuli_chr03	4952236	GG	AA	1946768483
SNP_P4_28472_4954284	NC_021162.1	Ca_kabuli_chr03	4954284	CC	TT	1946768485
SNP_P4_28473_4955387	NC_021162.1	Ca_kabuli_chr03	4955387	AA	GG	1946768487
SNP_P4_28474_4955404	NC_021162.1	Ca_kabuli_chr03	4955404	CC	TT	1946768489
SNP_P4_28475_4955520	NC_021162.1	Ca_kabuli_chr03	4955520	CC	TT	1946768491
SNP_P4_28476_4955521	NC_021162.1	Ca_kabuli_chr03	4955521	GG	TT	1946768493
SNP_P4_28477_4955564	NC_021162.1	Ca_kabuli_chr03	4955564	TT	CC	1946768495
SNP_P4_28478_4955669	NC_021162.1	Ca_kabuli_chr03	4955669	CC	TT	1946768497
SNP_P4_28479_4955684	NC_021162.1	Ca_kabuli_chr03	4955684	CC	TT	1946768499
SNP_P4_28480_4962805	NC_021162.1	Ca_kabuli_chr03	4962805	CC	AA	1946768501
SNP_P4_28481_4962907	NC_021162.1	Ca_kabuli_chr03	4962907	AA	TT	1946768503
SNP_P4_28482_4962915	NC_021162.1	Ca_kabuli_chr03	4962915	TT	GG	1946768505
SNP_P4_28483_4962971	NC_021162.1	Ca_kabuli_chr03	4962971	AA	GG	1946768507
SNP_P4_28484_4962973	NC_021162.1	Ca_kabuli_chr03	4962973	AA	GG	1946768509
SNP_P4_28485_4963182	NC_021162.1	Ca_kabuli_chr03	4963182	CC	TT	1946768510
SNP_P4_28486_4963276	NC_021162.1	Ca_kabuli_chr03	4963276	TT	GG	1946768512
SNP_P4_28487_4963309	NC_021162.1	Ca_kabuli_chr03	4963309	AA	CC	1946768515
SNP_P4_28488_4964707	NC_021162.1	Ca_kabuli_chr03	4964707	TT	CC	1946768517
SNP_P4_28489_4965187	NC_021162.1	Ca_kabuli_chr03	4965187	AA	CC	1946768519
SNP_P4_28490_4965188	NC_021162.1	Ca_kabuli_chr03	4965188	CC	AA	1946768521
SNP_P4_28491_4965307	NC_021162.1	Ca_kabuli_chr03	4965307	CC	TT	1946768523
SNP_P4_28492_4965332	NC_021162.1	Ca_kabuli_chr03	4965332	TT	CC	1946768525
SNP_P4_28493_4965422	NC_021162.1	Ca_kabuli_chr03	4965422	AA	TT	1946768527
SNP_P4_28495_4965561	NC_021162.1	Ca_kabuli_chr03	4965561	AA	TT	1946768529
SNP_P4_28497_4965643	NC_021162.1	Ca_kabuli_chr03	4965643	AA	TT	1946768531
SNP_P4_28498_4965646	NC_021162.1	Ca_kabuli_chr03	4965646	AA	TT	1946768533
SNP_P4_28499_4965648	NC_021162.1	Ca_kabuli_chr03	4965648	AA	CC	1946768535
SNP_P4_28500_4965669	NC_021162.1	Ca_kabuli_chr03	4965669	AA	GG	1946768537
SNP_P4_28501_4965678	NC_021162.1	Ca_kabuli_chr03	4965678	TT	AA	1946768539
SNP_P4_28502_4965689	NC_021162.1	Ca_kabuli_chr03	4965689	TT	CC	1946768541
SNP_P4_28503_4965721	NC_021162.1	Ca_kabuli_chr03	4965721	CC	TT	1946768543
SNP_P4_28504_4965750	NC_021162.1	Ca_kabuli_chr03	4965750	AA	GG	1946768545

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_28506_4965813	NC_021162.1	Ca_kabuli_chr03	4965813	TT	AA	1946768549
SNP_P4_28507_4965915	NC_021162.1	Ca_kabuli_chr03	4965915	CC	TT	1946768551
SNP_P4_28508_4965982	NC_021162.1	Ca_kabuli_chr03	4965982	CC	TT	1946768553
SNP_P4_28510_4966188	NC_021162.1	Ca_kabuli_chr03	4966188	CC	TT	1946768555
SNP_P4_28511_4966201	NC_021162.1	Ca_kabuli_chr03	4966201	GG	AA	1946768557
SNP_P4_28512_4966809	NC_021162.1	Ca_kabuli_chr03	4966809	AA	CC	1946768559
SNP_P4_28513_4966928	NC_021162.1	Ca_kabuli_chr03	4966928	TT	CC	1946768561
SNP_P4_28515_4975135	NC_021162.1	Ca_kabuli_chr03	4975135	CC	TT	1946768564
SNP_P4_28517_4975260	NC_021162.1	Ca_kabuli_chr03	4975260	TT	CC	1946768566
SNP_P4_28518_4975317	NC_021162.1	Ca_kabuli_chr03	4975317	TT	CC	1946768568
SNP_P4_28519_4976978	NC_021162.1	Ca_kabuli_chr03	4976978	AA	GG	1946768570
SNP_P4_28520_5045961	NC_021162.1	Ca_kabuli_chr03	5045961	CC	TT	1946768572
SNP_P4_28521_5045962	NC_021162.1	Ca_kabuli_chr03	5045962	TT	GG	1946768574
SNP_P4_28524_5095174	NC_021162.1	Ca_kabuli_chr03	5095174	GG	AA	1946768576
SNP_P4_28525_5115910	NC_021162.1	Ca_kabuli_chr03	5115910	AA	GG	1946768578
SNP_P4_28526_5115912	NC_021162.1	Ca_kabuli_chr03	5115912	AA	TT	1946768580
SNP_P4_28527_5156348	NC_021162.1	Ca_kabuli_chr03	5156348	AA	GG	1946768582
SNP_P4_28528_5165295	NC_021162.1	Ca_kabuli_chr03	5165295	TT	CC	1946768584
SNP_P4_28529_5198660	NC_021162.1	Ca_kabuli_chr03	5198660	GG	AA	1946768586
SNP_P4_28530_5220020	NC_021162.1	Ca_kabuli_chr03	5220020	GG	TT	1946768588
SNP_P4_28531_5229745	NC_021162.1	Ca_kabuli_chr03	5229745	GG	AA	1946768590
SNP_P4_28532_5265289	NC_021162.1	Ca_kabuli_chr03	5265289	CC	AA	1946768592
SNP_P4_28533_5269898	NC_021162.1	Ca_kabuli_chr03	5269898	CC	AA	1946768594
SNP_P4_28535_5269991	NC_021162.1	Ca_kabuli_chr03	5269991	AA	TT	1946768596
SNP_P4_28536_5269993	NC_021162.1	Ca_kabuli_chr03	5269993	TT	AA	1946768598
SNP_P4_28537_5270108	NC_021162.1	Ca_kabuli_chr03	5270108	AA	GG	1946768600
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SNP_P4_28540_5270290	NC_021162.1	Ca_kabuli_chr03	5270290	AA	GG	1946768604
SNP_P4_28541_5270298	NC_021162.1	Ca_kabuli_chr03	5270298	AA	TT	1946768606
SNP_P4_28542_5270306	NC_021162.1	Ca_kabuli_chr03	5270306	AA	TT	1946768608
SNP_P4_28543_5270398	NC_021162.1	Ca_kabuli_chr03	5270398	TT	AA	1946768610
SNP_P4_28544_5270404	NC_021162.1	Ca_kabuli_chr03	5270404	CC	AA	1946768612
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SNP_P4_28546_5270439	NC_021162.1	Ca_kabuli_chr03	5270439	CC	TT	1946768616
SNP_P4_28548_5270648	NC_021162.1	Ca_kabuli_chr03	5270648	CC	GG	1946768619
SNP_P4_28549_5270705	NC_021162.1	Ca_kabuli_chr03	5270705	TT	AA	1946768621
SNP_P4_28550_5273919	NC_021162.1	Ca_kabuli_chr03	5273919	CC	TT	1946768623
SNP_P4_28551_5274147	NC_021162.1	Ca_kabuli_chr03	5274147	TT	CC	1946768625
SNP_P4_28552_5274156	NC_021162.1	Ca_kabuli_chr03	5274156	AA	GG	1946768627
SNP_P4_28553_5274178	NC_021162.1	Ca_kabuli_chr03	5274178	TT	CC	1946768629
SNP_P4_28554_5274192	NC_021162.1	Ca_kabuli_chr03	5274192	AA	GG	1946768631

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_28556_5274204	NC_021162.1	Ca_kabuli_chr03	5274204	TT	CC	1946768635
SNP_P4_28557_5274210	NC_021162.1	Ca_kabuli_chr03	5274210	TT	AA	1946768637
SNP_P4_28558_5274216	NC_021162.1	Ca_kabuli_chr03	5274216	AA	CC	1946768639
SNP_P4_28559_5274225	NC_021162.1	Ca_kabuli_chr03	5274225	TT	CC	1946768641
SNP_P4_28560_5274231	NC_021162.1	Ca_kabuli_chr03	5274231	TT	AA	1946768643
SNP_P4_28561_5274249	NC_021162.1	Ca_kabuli_chr03	5274249	AA	GG	1946768645
SNP_P4_28562_5274255	NC_021162.1	Ca_kabuli_chr03	5274255	CC	AA	1946768648
SNP_P4_28563_5274261	NC_021162.1	Ca_kabuli_chr03	5274261	CC	TT	1946768650
SNP_P4_28564_5274267	NC_021162.1	Ca_kabuli_chr03	5274267	TT	AA	1946768652
SNP_P4_28566_5274291	NC_021162.1	Ca_kabuli_chr03	5274291	TT	GG	1946768654
SNP_P4_28567_5274303	NC_021162.1	Ca_kabuli_chr03	5274303	TT	AA	1946768656
SNP_P4_28568_5274318	NC_021162.1	Ca_kabuli_chr03	5274318	TT	AA	1946768658
SNP_P4_28569_5274330	NC_021162.1	Ca_kabuli_chr03	5274330	TT	CC	1946768660
SNP_P4_28570_5274342	NC_021162.1	Ca_kabuli_chr03	5274342	GG	AA	1946768662
SNP_P4_28571_5274366	NC_021162.1	Ca_kabuli_chr03	5274366	AA	GG	1946768664
SNP_P4_28572_5274396	NC_021162.1	Ca_kabuli_chr03	5274396	GG	AA	1946768666
SNP_P4_28573_5274404	NC_021162.1	Ca_kabuli_chr03	5274404	AA	CC	1946768668
SNP_P4_28575_5274423	NC_021162.1	Ca_kabuli_chr03	5274423	CC	TT	1946768670
SNP_P4_28576_5274428	NC_021162.1	Ca_kabuli_chr03	5274428	TT	CC	1946768672
SNP_P4_28577_5274429	NC_021162.1	Ca_kabuli_chr03	5274429	AA	TT	1946768674
SNP_P4_28578_5274444	NC_021162.1	Ca_kabuli_chr03	5274444	CC	TT	1946768676
SNP_P4_28579_5274450	NC_021162.1	Ca_kabuli_chr03	5274450	CC	AA	1946768678
SNP_P4_28580_5274453	NC_021162.1	Ca_kabuli_chr03	5274453	TT	CC	1946768680
SNP_P4_28581_5274456	NC_021162.1	Ca_kabuli_chr03	5274456	CC	TT	1946768683
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SNP_P4_28584_5276575	NC_021162.1	Ca_kabuli_chr03	5276575	GG	AA	1946768689
SNP_P4_28585_5276581	NC_021162.1	Ca_kabuli_chr03	5276581	TT	CC	1946768691
SNP_P4_28586_5276590	NC_021162.1	Ca_kabuli_chr03	5276590	TT	CC	1946768693
SNP_P4_28587_5276611	NC_021162.1	Ca_kabuli_chr03	5276611	TT	AA	1946768695
SNP_P4_28588_5276615	NC_021162.1	Ca_kabuli_chr03	5276615	TT	GG	1946768697
SNP_P4_28589_5276621	NC_021162.1	Ca_kabuli_chr03	5276621	TT	CC	1946768699
SNP_P4_28590_5276626	NC_021162.1	Ca_kabuli_chr03	5276626	AA	CC	1946768701
SNP_P4_28591_5276632	NC_021162.1	Ca_kabuli_chr03	5276632	AA	TT	1946768703
SNP_P4_28592_5276645	NC_021162.1	Ca_kabuli_chr03	5276645	AA	GG	1946768705
SNP_P4_28593_5276647	NC_021162.1	Ca_kabuli_chr03	5276647	TT	CC	1946768707
SNP_P4_28594_5276656	NC_021162.1	Ca_kabuli_chr03	5276656	CC	TT	1946768710
SNP_P4_28595_5276665	NC_021162.1	Ca_kabuli_chr03	5276665	TT	GG	1946768712
SNP_P4_28596_5276672	NC_021162.1	Ca_kabuli_chr03	5276672	TT	CC	1946768714
SNP_P4_28597_5281687	NC_021162.1	Ca_kabuli_chr03	5281687	AA	TT	1946768716
SNP_P4_28598_5281706	NC_021162.1	Ca_kabuli_chr03	5281706	TT	AA	1946768718

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_28600_5282265	NC_021162.1	Ca_kabuli_chr03	5282265	CC	TT	1946768722
SNP_P4_28601_5282266	NC_021162.1	Ca_kabuli_chr03	5282266	GG	TT	1946768724
SNP_P4_28602_5285617	NC_021162.1	Ca_kabuli_chr03	5285617	CC	TT	1946768726
SNP_P4_28603_5285637	NC_021162.1	Ca_kabuli_chr03	5285637	GG	AA	1946768728
SNP_P4_28604_5285640	NC_021162.1	Ca_kabuli_chr03	5285640	TT	CC	1946768730
SNP_P4_28605_5285791	NC_021162.1	Ca_kabuli_chr03	5285791	TT	CC	1946768732
SNP_P4_28606_5285793	NC_021162.1	Ca_kabuli_chr03	5285793	TT	CC	1946768734
SNP_P4_28607_5285804	NC_021162.1	Ca_kabuli_chr03	5285804	GG	CC	1946768736
SNP_P4_28608_5285820	NC_021162.1	Ca_kabuli_chr03	5285820	GG	CC	1946768739
SNP_P4_28609_5285854	NC_021162.1	Ca_kabuli_chr03	5285854	AA	GG	1946768741
SNP_P4_28610_5285873	NC_021162.1	Ca_kabuli_chr03	5285873	TT	AA	1946768743
SNP_P4_28611_5286022	NC_021162.1	Ca_kabuli_chr03	5286022	TT	CC	1946768745
SNP_P4_28612_5286026	NC_021162.1	Ca_kabuli_chr03	5286026	AA	GG	1946768747
SNP_P4_28613_5286136	NC_021162.1	Ca_kabuli_chr03	5286136	AA	GG	1946768749
SNP_P4_28616_5286363	NC_021162.1	Ca_kabuli_chr03	5286363	CC	TT	1946768751
SNP_P4_28617_5286381	NC_021162.1	Ca_kabuli_chr03	5286381	TT	GG	1946768753
SNP_P4_28618_5286414	NC_021162.1	Ca_kabuli_chr03	5286414	AA	TT	1946768755
SNP_P4_28619_5286422	NC_021162.1	Ca_kabuli_chr03	5286422	TT	GG	1946768757
SNP_P4_28620_5286434	NC_021162.1	Ca_kabuli_chr03	5286434	TT	CC	1946768759
SNP_P4_28621_5286441	NC_021162.1	Ca_kabuli_chr03	5286441	TT	AA	1946768761
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SNP_P4_28624_5287688	NC_021162.1	Ca_kabuli_chr03	5287688	CC	TT	1946768768
SNP_P4_28625_5287691	NC_021162.1	Ca_kabuli_chr03	5287691	AA	GG	1946768770
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SNP_P4_28630_5296576	NC_021162.1	Ca_kabuli_chr03	5296576	AA	GG	1946768776
SNP_P4_28631_5296952	NC_021162.1	Ca_kabuli_chr03	5296952	CC	AA	1946768778
SNP_P4_28632_5296960	NC_021162.1	Ca_kabuli_chr03	5296960	TT	CC	1946768780
SNP_P4_28633_5297019	NC_021162.1	Ca_kabuli_chr03	5297019	GG	AA	1946768782
SNP_P4_28634_5297050	NC_021162.1	Ca_kabuli_chr03	5297050	GG	AA	1946768784
SNP_P4_28635_5338716	NC_021162.1	Ca_kabuli_chr03	5338716	GG	AA	1946768786
SNP_P4_28636_5338717	NC_021162.1	Ca_kabuli_chr03	5338717	AA	GG	1946768788
SNP_P4_28637_5338753	NC_021162.1	Ca_kabuli_chr03	5338753	GG	AA	1946768790
SNP_P4_28638_5340163	NC_021162.1	Ca_kabuli_chr03	5340163	TT	CC	1946768793
SNP_P4_28639_5340461	NC_021162.1	Ca_kabuli_chr03	5340461	AA	GG	1946768795
SNP_P4_28640_5340504	NC_021162.1	Ca_kabuli_chr03	5340504	AA	GG	1946768797
SNP_P4_28641_5340847	NC_021162.1	Ca_kabuli_chr03	5340847	TT	CC	1946768799
SNP_P4_28642_5340876	NC_021162.1	Ca_kabuli_chr03	5340876	AA	GG	1946768801
SNP_P4_28643_5340881	NC_021162.1	Ca_kabuli_chr03	5340881	TT	AA	1946768803
SNP_P4_28644_5340893	NC_021162.1	Ca_kabuli_chr03	5340893	CC	TT	1946768805

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_28647_5340951	NC_021162.1	Ca_kabuli_chr03	5340951	TT	GG	1946768811
SNP_P4_28648_5340959	NC_021162.1	Ca_kabuli_chr03	5340959	TT	CC	1946768813
SNP_P4_28649_5340965	NC_021162.1	Ca_kabuli_chr03	5340965	CC	TT	1946768815
SNP_P4_28650_5340976	NC_021162.1	Ca_kabuli_chr03	5340976	AA	CC	1946768818
SNP_P4_28651_5341001	NC_021162.1	Ca_kabuli_chr03	5341001	GG	AA	1946768820
SNP_P4_28652_5344680	NC_021162.1	Ca_kabuli_chr03	5344680	GG	AA	1946768822
SNP_P4_28656_5460078	NC_021162.1	Ca_kabuli_chr03	5460078	GG	AA	1946768824
SNP_P4_28657_5490778	NC_021162.1	Ca_kabuli_chr03	5490778	TT	AA	1946768826
SNP_P4_28658_5490866	NC_021162.1	Ca_kabuli_chr03	5490866	AA	CC	1946768828
SNP_P4_28659_5490878	NC_021162.1	Ca_kabuli_chr03	5490878	TT	CC	1946768830
SNP_P4_28660_5491189	NC_021162.1	Ca_kabuli_chr03	5491189	GG	AA	1946768832
SNP_P4_28661_5492250	NC_021162.1	Ca_kabuli_chr03	5492250	AA	CC	1946768834
SNP_P4_28662_5494543	NC_021162.1	Ca_kabuli_chr03	5494543	TT	GG	1946768836
SNP_P4_28663_5494578	NC_021162.1	Ca_kabuli_chr03	5494578	AA	CC	1946768838
SNP_P4_28664_5501930	NC_021162.1	Ca_kabuli_chr03	5501930	TT	GG	1946768840
SNP_P4_28665_5501949	NC_021162.1	Ca_kabuli_chr03	5501949	GG	AA	1946768842
SNP_P4_28666_5501951	NC_021162.1	Ca_kabuli_chr03	5501951	AA	TT	1946768844
SNP_P4_28667_5501952	NC_021162.1	Ca_kabuli_chr03	5501952	GG	CC	1946768846
SNP_P4_28668_5502027	NC_021162.1	Ca_kabuli_chr03	5502027	AA	CC	1946768848
SNP_P4_28669_5502184	NC_021162.1	Ca_kabuli_chr03	5502184	GG	AA	1946768850
SNP_P4_28671_5507649	NC_021162.1	Ca_kabuli_chr03	5507649	TT	AA	1946768852
SNP_P4_28672_5507850	NC_021162.1	Ca_kabuli_chr03	5507850	AA	GG	1946768854
SNP_P4_28673_5507946	NC_021162.1	Ca_kabuli_chr03	5507946	AA	CC	1946768856
SNP_P4_28674_5508035	NC_021162.1	Ca_kabuli_chr03	5508035	GG	TT	1946768858
SNP_P4_28675_5508816	NC_021162.1	Ca_kabuli_chr03	5508816	AA	GG	1946768860
SNP_P4_28676_5508835	NC_021162.1	Ca_kabuli_chr03	5508835	AA	GG	1946768862
SNP_P4_28677_5509233	NC_021162.1	Ca_kabuli_chr03	5509233	AA	CC	1946768864
SNP_P4_28678_5510238	NC_021162.1	Ca_kabuli_chr03	5510238	TT	CC	1946768866
SNP_P4_28679_5516392	NC_021162.1	Ca_kabuli_chr03	5516392	AA	GG	1946768868
SNP_P4_28680_5516394	NC_021162.1	Ca_kabuli_chr03	5516394	CC	TT	1946768870
SNP_P4_28681_5516397	NC_021162.1	Ca_kabuli_chr03	5516397	GG	CC	1946768872
SNP_P4_28682_5516407	NC_021162.1	Ca_kabuli_chr03	5516407	CC	TT	1946768874
SNP_P4_28683_5516408	NC_021162.1	Ca_kabuli_chr03	5516408	CC	TT	1946768876
SNP_P4_28684_5516411	NC_021162.1	Ca_kabuli_chr03	5516411	CC	TT	1946768878
SNP_P4_28685_5516422	NC_021162.1	Ca_kabuli_chr03	5516422	GG	AA	1946768880
SNP_P4_28686_5516464	NC_021162.1	Ca_kabuli_chr03	5516464	GG	AA	1946768883
SNP_P4_28687_5516739	NC_021162.1	Ca_kabuli_chr03	5516739	TT	CC	1946768885
SNP_P4_28688_5516741	NC_021162.1	Ca_kabuli_chr03	5516741	TT	CC	1946768887
SNP_P4_28689_5516785	NC_021162.1	Ca_kabuli_chr03	5516785	AA	GG	1946768889
SNP_P4_28690_5516811	NC_021162.1	Ca_kabuli_chr03	5516811	GG	AA	1946768891

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_28691_5520149	NC_021162.1	Ca_kabuli_chr03	5520149	GG	AA	1946768893
SNP_P4_28694_5573571	NC_021162.1	Ca_kabuli_chr03	5573571	GG	AA	1946768895
SNP_P4_28695_5574836	NC_021162.1	Ca_kabuli_chr03	5574836	GG	AA	1946768897
SNP_P4_28696_5588724	NC_021162.1	Ca_kabuli_chr03	5588724	GG	TT	1946768899
SNP_P4_28697_5588739	NC_021162.1	Ca_kabuli_chr03	5588739	TT	AA	1946768901
SNP_P4_28698_5588765	NC_021162.1	Ca_kabuli_chr03	5588765	CC	TT	1946768903
SNP_P4_28699_5588800	NC_021162.1	Ca_kabuli_chr03	5588800	CC	TT	1946768905
SNP_P4_28700_5588878	NC_021162.1	Ca_kabuli_chr03	5588878	TT	CC	1946768907
SNP_P4_28701_5588880	NC_021162.1	Ca_kabuli_chr03	5588880	GG	AA	1946768909
SNP_P4_28702_5588889	NC_021162.1	Ca_kabuli_chr03	5588889	AA	CC	1946768911
SNP_P4_28703_5588900	NC_021162.1	Ca_kabuli_chr03	5588900	GG	TT	1946768913
SNP_P4_28704_5588902	NC_021162.1	Ca_kabuli_chr03	5588902	AA	GG	1946768915
SNP_P4_28705_5588905	NC_021162.1	Ca_kabuli_chr03	5588905	AA	TT	1946768917
SNP_P4_28706_5589736	NC_021162.1	Ca_kabuli_chr03	5589736	GG	AA	1946768919
SNP_P4_28707_5633964	NC_021162.1	Ca_kabuli_chr03	5633964	AA	TT	1946768921
SNP_P4_28708_5635740	NC_021162.1	Ca_kabuli_chr03	5635740	AA	GG	1946768923
SNP_P4_28709_5637283	NC_021162.1	Ca_kabuli_chr03	5637283	CC	TT	1946768925
SNP_P4_28710_5637634	NC_021162.1	Ca_kabuli_chr03	5637634	CC	GG	1946768927
SNP_P4_28711_5637675	NC_021162.1	Ca_kabuli_chr03	5637675	AA	TT	1946768929
SNP_P4_28712_5637745	NC_021162.1	Ca_kabuli_chr03	5637745	AA	GG	1946768932
SNP_P4_28713_5637769	NC_021162.1	Ca_kabuli_chr03	5637769	CC	AA	1946768934
SNP_P4_28715_5658749	NC_021162.1	Ca_kabuli_chr03	5658749	AA	CC	1946768936
SNP_P4_28716_5658753	NC_021162.1	Ca_kabuli_chr03	5658753	AA	CC	1946768938
SNP_P4_28717_5659612	NC_021162.1	Ca_kabuli_chr03	5659612	TT	CC	1946768940
SNP_P4_28718_5667304	NC_021162.1	Ca_kabuli_chr03	5667304	CC	TT	1946768942
SNP_P4_28719_5677780	NC_021162.1	Ca_kabuli_chr03	5677780	TT	CC	1946768944
SNP_P4_28720_5678295	NC_021162.1	Ca_kabuli_chr03	5678295	AA	GG	1946768946
SNP_P4_28721_5686083	NC_021162.1	Ca_kabuli_chr03	5686083	GG	TT	1946768948
SNP_P4_28722_5687787	NC_021162.1	Ca_kabuli_chr03	5687787	GG	AA	1946768950
SNP_P4_28724_5689050	NC_021162.1	Ca_kabuli_chr03	5689050	CC	TT	1946768952
SNP_P4_28725_5689101	NC_021162.1	Ca_kabuli_chr03	5689101	TT	GG	1946768954
SNP_P4_28728_5689357	NC_021162.1	Ca_kabuli_chr03	5689357	TT	CC	1946768956
SNP_P4_28729_5689359	NC_021162.1	Ca_kabuli_chr03	5689359	AA	GG	1946768958
SNP_P4_28730_5689376	NC_021162.1	Ca_kabuli_chr03	5689376	CC	AA	1946768960
SNP_P4_28732_5692283	NC_021162.1	Ca_kabuli_chr03	5692283	GG	AA	1946768962
SNP_P4_28735_5707794	NC_021162.1	Ca_kabuli_chr03	5707794	TT	CC	1946768964
SNP_P4_28736_5716301	NC_021162.1	Ca_kabuli_chr03	5716301	GG	TT	1946768966
SNP_P4_28737_5716306	NC_021162.1	Ca_kabuli_chr03	5716306	AA	TT	1946768969
SNP_P4_28738_5716620	NC_021162.1	Ca_kabuli_chr03	5716620	AA	CC	1946768971
SNP_P4_28739_5716746	NC_021162.1	Ca_kabuli_chr03	5716746	AA	TT	1946768973
SNP_P4_28740_5717226	NC_021162.1	Ca_kabuli_chr03	5717226	GG	AA	1946768975
SNP_P4_28741_5717996	NC_021162.1	Ca_kabuli_chr03	5717996	TT	AA	1946768977

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_28742_5718300	NC_021162.1	Ca_kabuli_chr03	5718300	AA	CC	1946768979
SNP_P4_28744_5730063	NC_021162.1	Ca_kabuli_chr03	5730063	CC	TT	1946768981
SNP_P4_28745_5734196	NC_021162.1	Ca_kabuli_chr03	5734196	TT	CC	1946768983
SNP_P4_28747_5769802	NC_021162.1	Ca_kabuli_chr03	5769802	GG	CC	1946768986
SNP_P4_28748_5770654	NC_021162.1	Ca_kabuli_chr03	5770654	CC	TT	1946768988
SNP_P4_28749_5771586	NC_021162.1	Ca_kabuli_chr03	5771586	CC	AA	1946768990
SNP_P4_28750_5804851	NC_021162.1	Ca_kabuli_chr03	5804851	TT	CC	1946768992
SNP_P4_28751_5804907	NC_021162.1	Ca_kabuli_chr03	5804907	TT	AA	1946768994
SNP_P4_28752_5805133	NC_021162.1	Ca_kabuli_chr03	5805133	AA	TT	1946768996
SNP_P4_28753_5805214	NC_021162.1	Ca_kabuli_chr03	5805214	CC	TT	1946768998
SNP_P4_28756_5810403	NC_021162.1	Ca_kabuli_chr03	5810403	TT	CC	1946769000
SNP_P4_28757_5837703	NC_021162.1	Ca_kabuli_chr03	5837703	GG	AA	1946769002
SNP_P4_28758_5839015	NC_021162.1	Ca_kabuli_chr03	5839015	AA	GG	1946769004
SNP_P4_28759_5839023	NC_021162.1	Ca_kabuli_chr03	5839023	CC	TT	1946769006
SNP_P4_28760_5840722	NC_021162.1	Ca_kabuli_chr03	5840722	TT	CC	1946769008
SNP_P4_28761_5840829	NC_021162.1	Ca_kabuli_chr03	5840829	AA	GG	1946769010
SNP_P4_28762_5840841	NC_021162.1	Ca_kabuli_chr03	5840841	AA	GG	1946769012
SNP_P4_28764_5840860	NC_021162.1	Ca_kabuli_chr03	5840860	AA	GG	1946769014
SNP_P4_28765_5840888	NC_021162.1	Ca_kabuli_chr03	5840888	GG	TT	1946769016
SNP_P4_28766_5840904	NC_021162.1	Ca_kabuli_chr03	5840904	CC	TT	1946769018
SNP_P4_28767_5840927	NC_021162.1	Ca_kabuli_chr03	5840927	AA	GG	1946769021
SNP_P4_28768_5841005	NC_021162.1	Ca_kabuli_chr03	5841005	AA	CC	1946769023
SNP_P4_28769_5841413	NC_021162.1	Ca_kabuli_chr03	5841413	AA	GG	1946769025
SNP_P4_28770_5879208	NC_021162.1	Ca_kabuli_chr03	5879208	CC	AA	1946769027
SNP_P4_28771_5894021	NC_021162.1	Ca_kabuli_chr03	5894021	TT	AA	1946769029
SNP_P4_28772_5894066	NC_021162.1	Ca_kabuli_chr03	5894066	CC	GG	1946769031
SNP_P4_28773_5900893	NC_021162.1	Ca_kabuli_chr03	5900893	GG	AA	1946769033
SNP_P4_28774_5900897	NC_021162.1	Ca_kabuli_chr03	5900897	CC	TT	1946769035
SNP_P4_28775_5900902	NC_021162.1	Ca_kabuli_chr03	5900902	GG	AA	1946769037
SNP_P4_28776_5907688	NC_021162.1	Ca_kabuli_chr03	5907688	GG	AA	1946769039
SNP_P4_28777_5910255	NC_021162.1	Ca_kabuli_chr03	5910255	AA	GG	1946769041
SNP_P4_28778_5916180	NC_021162.1	Ca_kabuli_chr03	5916180	AA	GG	1946769043
SNP_P4_28779_5916185	NC_021162.1	Ca_kabuli_chr03	5916185	TT	CC	1946769046
SNP_P4_28780_5916677	NC_021162.1	Ca_kabuli_chr03	5916677	GG	AA	1946769048
SNP_P4_28782_5922057	NC_021162.1	Ca_kabuli_chr03	5922057	AA	TT	1946769050
SNP_P4_28783_5922087	NC_021162.1	Ca_kabuli_chr03	5922087	CC	GG	1946769052
SNP_P4_28784_5922096	NC_021162.1	Ca_kabuli_chr03	5922096	CC	TT	1946769054
SNP_P4_28785_5922131	NC_021162.1	Ca_kabuli_chr03	5922131	TT	GG	1946769056
SNP_P4_28786_5922174	NC_021162.1	Ca_kabuli_chr03	5922174	TT	AA	1946769058
SNP_P4_28787_5922517	NC_021162.1	Ca_kabuli_chr03	5922517	AA	GG	1946769060
SNP_P4_28788_5923068	NC_021162.1	Ca_kabuli_chr03	5923068	AA	GG	1946769063
SNP_P4_28789_5934571	NC_021162.1	Ca_kabuli_chr03	5934571	CC	GG	1946769065

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_28790_5934572	NC_021162.1	Ca_kabuli_chr03	5934572	AA	GG	1946769067
SNP_P4_28791_5935323	NC_021162.1	Ca_kabuli_chr03	5935323	TT	GG	1946769069
SNP_P4_28792_5936579	NC_021162.1	Ca_kabuli_chr03	5936579	CC	TT	1946769071
SNP_P4_28793_5936608	NC_021162.1	Ca_kabuli_chr03	5936608	TT	AA	1946769073
SNP_P4_28794_5936665	NC_021162.1	Ca_kabuli_chr03	5936665	CC	TT	1946769075
SNP_P4_28795_5936666	NC_021162.1	Ca_kabuli_chr03	5936666	AA	GG	1946769077
SNP_P4_28796_5936668	NC_021162.1	Ca_kabuli_chr03	5936668	GG	AA	1946769079
SNP_P4_28797_5936735	NC_021162.1	Ca_kabuli_chr03	5936735	TT	GG	1946769081
SNP_P4_28798_5943483	NC_021162.1	Ca_kabuli_chr03	5943483	TT	CC	1946769084
SNP_P4_28799_5943814	NC_021162.1	Ca_kabuli_chr03	5943814	GG	CC	1946769086
SNP_P4_28800_5945493	NC_021162.1	Ca_kabuli_chr03	5945493	CC	AA	1946769088
SNP_P4_28801_5945500	NC_021162.1	Ca_kabuli_chr03	5945500	AA	TT	1946769090
SNP_P4_28802_5945531	NC_021162.1	Ca_kabuli_chr03	5945531	CC	TT	1946769092
SNP_P4_28803_5945766	NC_021162.1	Ca_kabuli_chr03	5945766	AA	TT	1946769094
SNP_P4_28804_5945768	NC_021162.1	Ca_kabuli_chr03	5945768	AA	TT	1946769096
SNP_P4_28805_5945791	NC_021162.1	Ca_kabuli_chr03	5945791	CC	GG	1946769098
SNP_P4_28806_5945797	NC_021162.1	Ca_kabuli_chr03	5945797	AA	GG	1946769100
SNP_P4_28807_5945800	NC_021162.1	Ca_kabuli_chr03	5945800	AA	CC	1946769102
SNP_P4_28808_5950319	NC_021162.1	Ca_kabuli_chr03	5950319	AA	TT	1946769104
SNP_P4_28809_5953417	NC_021162.1	Ca_kabuli_chr03	5953417	TT	CC	1946769107
SNP_P4_28810_5953427	NC_021162.1	Ca_kabuli_chr03	5953427	TT	AA	1946769109
SNP_P4_28811_5953440	NC_021162.1	Ca_kabuli_chr03	5953440	AA	GG	1946769111
SNP_P4_28812_5953474	NC_021162.1	Ca_kabuli_chr03	5953474	CC	GG	1946769113
SNP_P4_28813_5956550	NC_021162.1	Ca_kabuli_chr03	5956550	GG	AA	1946769115
SNP_P4_28814_5956554	NC_021162.1	Ca_kabuli_chr03	5956554	GG	TT	1946769117
SNP_P4_28815_5958643	NC_021162.1	Ca_kabuli_chr03	5958643	GG	TT	1946769119
SNP_P4_28816_5967019	NC_021162.1	Ca_kabuli_chr03	5967019	GG	CC	1946769121
SNP_P4_28817_5970699	NC_021162.1	Ca_kabuli_chr03	5970699	AA	TT	1946769123
SNP_P4_28818_5975906	NC_021162.1	Ca_kabuli_chr03	5975906	GG	AA	1946769125
SNP_P4_28820_5978448	NC_021162.1	Ca_kabuli_chr03	5978448	CC	AA	1946769128
SNP_P4_28821_5983523	NC_021162.1	Ca_kabuli_chr03	5983523	GG	TT	1946769130
SNP_P4_28822_5987748	NC_021162.1	Ca_kabuli_chr03	5987748	CC	AA	1946769132
SNP_P4_28823_5987760	NC_021162.1	Ca_kabuli_chr03	5987760	CC	AA	1946769134
SNP_P4_28824_5993548	NC_021162.1	Ca_kabuli_chr03	5993548	TT	CC	1946769136
SNP_P4_28825_5994201	NC_021162.1	Ca_kabuli_chr03	5994201	GG	AA	1946769138
SNP_P4_28826_5994202	NC_021162.1	Ca_kabuli_chr03	5994202	GG	CC	1946769140
SNP_P4_28827_5994233	NC_021162.1	Ca_kabuli_chr03	5994233	AA	TT	1946769142
SNP_P4_28828_5994269	NC_021162.1	Ca_kabuli_chr03	5994269	AA	CC	1946769144
SNP_P4_28829_6004312	NC_021162.1	Ca_kabuli_chr03	6004312	AA	GG	1946769146
SNP_P4_28830_6004797	NC_021162.1	Ca_kabuli_chr03	6004797	AA	GG	1946769148
SNP_P4_28831_6021674	NC_021162.1	Ca_kabuli_chr03	6021674	CC	GG	1946769150
SNP_P4_28832_6021698	NC_021162.1	Ca_kabuli_chr03	6021698	GG	CC	1946769152

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_28833_6021701	NC_021162.1	Ca_kabuli_chr03	6021701	GG	AA	1946769154
SNP_P4_28834_6030819	NC_021162.1	Ca_kabuli_chr03	6030819	AA	GG	1946769156
SNP_P4_28835_6030821	NC_021162.1	Ca_kabuli_chr03	6030821	GG	TT	1946769158
SNP_P4_28836_6030829	NC_021162.1	Ca_kabuli_chr03	6030829	TT	CC	1946769160
SNP_P4_28837_6030871	NC_021162.1	Ca_kabuli_chr03	6030871	TT	GG	1946769163
SNP_P4_28838_6031035	NC_021162.1	Ca_kabuli_chr03	6031035	GG	AA	1946769165
SNP_P4_28839_6031082	NC_021162.1	Ca_kabuli_chr03	6031082	TT	CC	1946769167
SNP_P4_28840_6031215	NC_021162.1	Ca_kabuli_chr03	6031215	TT	CC	1946769169
SNP_P4_28841_6031225	NC_021162.1	Ca_kabuli_chr03	6031225	AA	CC	1946769171
SNP_P4_28842_6031238	NC_021162.1	Ca_kabuli_chr03	6031238	GG	AA	1946769173
SNP_P4_28843_6031307	NC_021162.1	Ca_kabuli_chr03	6031307	AA	TT	1946769175
SNP_P4_28844_6031374	NC_021162.1	Ca_kabuli_chr03	6031374	GG	TT	1946769177
SNP_P4_28845_6031433	NC_021162.1	Ca_kabuli_chr03	6031433	GG	AA	1946769179
SNP_P4_28846_6031451	NC_021162.1	Ca_kabuli_chr03	6031451	TT	CC	1946769181
SNP_P4_28847_6035912	NC_021162.1	Ca_kabuli_chr03	6035912	AA	CC	1946769183
SNP_P4_28848_6037644	NC_021162.1	Ca_kabuli_chr03	6037644	TT	CC	1946769185
SNP_P4_28849_6037762	NC_021162.1	Ca_kabuli_chr03	6037762	CC	TT	1946769187
SNP_P4_28850_6037800	NC_021162.1	Ca_kabuli_chr03	6037800	CC	AA	1946769190
SNP_P4_28852_6058807	NC_021162.1	Ca_kabuli_chr03	6058807	CC	TT	1946769192
SNP_P4_28853_6058833	NC_021162.1	Ca_kabuli_chr03	6058833	TT	AA	1946769194
SNP_P4_28854_6058841	NC_021162.1	Ca_kabuli_chr03	6058841	TT	GG	1946769196
SNP_P4_28855_6095767	NC_021162.1	Ca_kabuli_chr03	6095767	GG	AA	1946769198
SNP_P4_28856_6104494	NC_021162.1	Ca_kabuli_chr03	6104494	TT	GG	1946769200
SNP_P4_28857_6104556	NC_021162.1	Ca_kabuli_chr03	6104556	CC	TT	1946769202
SNP_P4_28858_6104594	NC_021162.1	Ca_kabuli_chr03	6104594	TT	GG	1946769204
SNP_P4_28859_6117859	NC_021162.1	Ca_kabuli_chr03	6117859	CC	AA	1946769206
SNP_P4_28860_6117868	NC_021162.1	Ca_kabuli_chr03	6117868	CC	GG	1946769208
SNP_P4_28861_6157531	NC_021162.1	Ca_kabuli_chr03	6157531	CC	AA	1946769210
SNP_P4_28862_6157898	NC_021162.1	Ca_kabuli_chr03	6157898	TT	CC	1946769212
SNP_P4_28863_6159112	NC_021162.1	Ca_kabuli_chr03	6159112	AA	CC	1946769214
SNP_P4_28864_6159237	NC_021162.1	Ca_kabuli_chr03	6159237	CC	TT	1946769216
SNP_P4_28865_6174745	NC_021162.1	Ca_kabuli_chr03	6174745	AA	GG	1946769218
SNP_P4_28866_6219007	NC_021162.1	Ca_kabuli_chr03	6219007	TT	AA	1946769221
SNP_P4_28867_6219407	NC_021162.1	Ca_kabuli_chr03	6219407	GG	AA	1946769223
SNP_P4_28868_6234452	NC_021162.1	Ca_kabuli_chr03	6234452	TT	CC	1946769225
SNP_P4_28869_6234453	NC_021162.1	Ca_kabuli_chr03	6234453	TT	CC	1946769227
SNP_P4_28870_6251687	NC_021162.1	Ca_kabuli_chr03	6251687	CC	TT	1946769229
SNP_P4_28871_6259684	NC_021162.1	Ca_kabuli_chr03	6259684	GG	AA	1946769230
SNP_P4_28872_6297142	NC_021162.1	Ca_kabuli_chr03	6297142	GG	AA	1946769231
SNP_P4_28873_6297155	NC_021162.1	Ca_kabuli_chr03	6297155	CC	TT	1946769232
SNP_P4_28874_6302492	NC_021162.1	Ca_kabuli_chr03	6302492	AA	CC	1946769233
SNP_P4_28875_6302939	NC_021162.1	Ca_kabuli_chr03	6302939	CC	TT	1946769234

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_28877_6328620	NC_021162.1	Ca_kabuli_chr03	6328620	GG	TT	1946769238
SNP_P4_28878_6328696	NC_021162.1	Ca_kabuli_chr03	6328696	CC	TT	1946769240
SNP_P4_28879_6330756	NC_021162.1	Ca_kabuli_chr03	6330756	AA	GG	1946769242
SNP_P4_28880_6330898	NC_021162.1	Ca_kabuli_chr03	6330898	AA	TT	1946769244
SNP_P4_28881_6333149	NC_021162.1	Ca_kabuli_chr03	6333149	TT	GG	1946769246
SNP_P4_28882_6333483	NC_021162.1	Ca_kabuli_chr03	6333483	CC	TT	1946769248
SNP_P4_28883_6333723	NC_021162.1	Ca_kabuli_chr03	6333723	TT	GG	1946769250
SNP_P4_28884_6333759	NC_021162.1	Ca_kabuli_chr03	6333759	AA	TT	1946769252
SNP_P4_28885_6333827	NC_021162.1	Ca_kabuli_chr03	6333827	AA	GG	1946769254
SNP_P4_28888_6353601	NC_021162.1	Ca_kabuli_chr03	6353601	AA	TT	1946769256
SNP_P4_28889_6371941	NC_021162.1	Ca_kabuli_chr03	6371941	CC	TT	1946769259
SNP_P4_28890_6371988	NC_021162.1	Ca_kabuli_chr03	6371988	GG	AA	1946769261
SNP_P4_28891_6372002	NC_021162.1	Ca_kabuli_chr03	6372002	TT	AA	1946769263
SNP_P4_28892_6372004	NC_021162.1	Ca_kabuli_chr03	6372004	AA	GG	1946769265
SNP_P4_28893_6372173	NC_021162.1	Ca_kabuli_chr03	6372173	GG	AA	1946769267
SNP_P4_28895_6372228	NC_021162.1	Ca_kabuli_chr03	6372228	AA	TT	1946769269
SNP_P4_28896_6372262	NC_021162.1	Ca_kabuli_chr03	6372262	AA	CC	1946769271
SNP_P4_28897_6372264	NC_021162.1	Ca_kabuli_chr03	6372264	AA	TT	1946769273
SNP_P4_28900_6373630	NC_021162.1	Ca_kabuli_chr03	6373630	AA	GG	1946769275
SNP_P4_28901_6386864	NC_021162.1	Ca_kabuli_chr03	6386864	TT	CC	1946769277
SNP_P4_28902_6386877	NC_021162.1	Ca_kabuli_chr03	6386877	TT	GG	1946769280
SNP_P4_28903_6386896	NC_021162.1	Ca_kabuli_chr03	6386896	CC	TT	1946769282
SNP_P4_28905_6386943	NC_021162.1	Ca_kabuli_chr03	6386943	GG	AA	1946769284
SNP_P4_28906_6397214	NC_021162.1	Ca_kabuli_chr03	6397214	GG	AA	1946769286
SNP_P4_28908_6419399	NC_021162.1	Ca_kabuli_chr03	6419399	AA	GG	1946769288
SNP_P4_28909_6430274	NC_021162.1	Ca_kabuli_chr03	6430274	CC	TT	1946769290
SNP_P4_28910_6430284	NC_021162.1	Ca_kabuli_chr03	6430284	TT	CC	1946769292
SNP_P4_28911_6430530	NC_021162.1	Ca_kabuli_chr03	6430530	TT	AA	1946769294
SNP_P4_28912_6430603	NC_021162.1	Ca_kabuli_chr03	6430603	GG	AA	1946769296
SNP_P4_28913_6430983	NC_021162.1	Ca_kabuli_chr03	6430983	AA	GG	1946769298
SNP_P4_28914_6430987	NC_021162.1	Ca_kabuli_chr03	6430987	GG	CC	1946769300
SNP_P4_28915_6431254	NC_021162.1	Ca_kabuli_chr03	6431254	AA	CC	1946769302
SNP_P4_28916_6431274	NC_021162.1	Ca_kabuli_chr03	6431274	GG	AA	1946769304
SNP_P4_28917_6431363	NC_021162.1	Ca_kabuli_chr03	6431363	AA	GG	1946769306
SNP_P4_28919_6443022	NC_021162.1	Ca_kabuli_chr03	6443022	CC	GG	1946769308
SNP_P4_28920_6445158	NC_021162.1	Ca_kabuli_chr03	6445158	AA	GG	1946769310
SNP_P4_28921_6448669	NC_021162.1	Ca_kabuli_chr03	6448669	TT	CC	1946769312
SNP_P4_28922_6448687	NC_021162.1	Ca_kabuli_chr03	6448687	TT	CC	1946769314
SNP_P4_28924_6474373	NC_021162.1	Ca_kabuli_chr03	6474373	AA	TT	1946769316
SNP_P4_28925_6474374	NC_021162.1	Ca_kabuli_chr03	6474374	AA	TT	1946769318
SNP_P4_28926_6487656	NC_021162.1	Ca_kabuli_chr03	6487656	AA	GG	1946769320

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_28928_6520291	NC_021162.1	Ca_kabuli_chr03	6520291	CC	TT	1946769324
SNP_P4_28929_6547970	NC_021162.1	Ca_kabuli_chr03	6547970	CC	AA	1946769326
SNP_P4_28931_6569728	NC_021162.1	Ca_kabuli_chr03	6569728	CC	TT	1946769328
SNP_P4_28932_6581942	NC_021162.1	Ca_kabuli_chr03	6581942	GG	AA	1946769330
SNP_P4_28933_6582270	NC_021162.1	Ca_kabuli_chr03	6582270	TT	CC	1946769333
SNP_P4_28934_6583701	NC_021162.1	Ca_kabuli_chr03	6583701	CC	GG	1946769335
SNP_P4_28935_6587860	NC_021162.1	Ca_kabuli_chr03	6587860	AA	GG	1946769337
SNP_P4_28936_6588348	NC_021162.1	Ca_kabuli_chr03	6588348	TT	AA	1946769339
SNP_P4_28937_6588638	NC_021162.1	Ca_kabuli_chr03	6588638	CC	TT	1946769341
SNP_P4_28938_6588778	NC_021162.1	Ca_kabuli_chr03	6588778	TT	GG	1946769343
SNP_P4_28939_6588920	NC_021162.1	Ca_kabuli_chr03	6588920	GG	AA	1946769345
SNP_P4_28940_6589283	NC_021162.1	Ca_kabuli_chr03	6589283	CC	AA	1946769347
SNP_P4_28941_6589692	NC_021162.1	Ca_kabuli_chr03	6589692	TT	CC	1946769349
SNP_P4_28942_6590380	NC_021162.1	Ca_kabuli_chr03	6590380	GG	AA	1946769351
SNP_P4_28943_6590452	NC_021162.1	Ca_kabuli_chr03	6590452	CC	AA	1946769354
SNP_P4_28944_6591729	NC_021162.1	Ca_kabuli_chr03	6591729	TT	GG	1946769356
SNP_P4_28946_6599039	NC_021162.1	Ca_kabuli_chr03	6599039	TT	CC	1946769358
SNP_P4_28947_6599058	NC_021162.1	Ca_kabuli_chr03	6599058	AA	CC	1946769360
SNP_P4_28948_6599070	NC_021162.1	Ca_kabuli_chr03	6599070	TT	CC	1946769362
SNP_P4_28949_6599081	NC_021162.1	Ca_kabuli_chr03	6599081	CC	TT	1946769364
SNP_P4_28950_6599088	NC_021162.1	Ca_kabuli_chr03	6599088	GG	AA	1946769366
SNP_P4_28951_6599095	NC_021162.1	Ca_kabuli_chr03	6599095	GG	CC	1946769368
SNP_P4_28952_6599098	NC_021162.1	Ca_kabuli_chr03	6599098	TT	AA	1946769370
SNP_P4_28953_6599124	NC_021162.1	Ca_kabuli_chr03	6599124	TT	AA	1946769372
SNP_P4_28954_6599143	NC_021162.1	Ca_kabuli_chr03	6599143	TT	CC	1946769374
SNP_P4_28955_6599149	NC_021162.1	Ca_kabuli_chr03	6599149	TT	CC	1946769376
SNP_P4_28956_6599174	NC_021162.1	Ca_kabuli_chr03	6599174	AA	TT	1946769378
SNP_P4_28957_6599175	NC_021162.1	Ca_kabuli_chr03	6599175	TT	AA	1946769380
SNP_P4_28958_6599208	NC_021162.1	Ca_kabuli_chr03	6599208	AA	GG	1946769382
SNP_P4_28959_6599217	NC_021162.1	Ca_kabuli_chr03	6599217	TT	AA	1946769384
SNP_P4_28960_6599258	NC_021162.1	Ca_kabuli_chr03	6599258	CC	AA	1946769386
SNP_P4_28961_6599310	NC_021162.1	Ca_kabuli_chr03	6599310	AA	GG	1946769388
SNP_P4_28962_6599482	NC_021162.1	Ca_kabuli_chr03	6599482	GG	AA	1946769390
SNP_P4_28963_6600839	NC_021162.1	Ca_kabuli_chr03	6600839	CC	AA	1946769392
SNP_P4_28964_6601618	NC_021162.1	Ca_kabuli_chr03	6601618	CC	TT	1946769394
SNP_P4_28965_6605135	NC_021162.1	Ca_kabuli_chr03	6605135	TT	CC	1946769396
SNP_P4_28966_6606297	NC_021162.1	Ca_kabuli_chr03	6606297	GG	AA	1946769398
SNP_P4_28967_6608449	NC_021162.1	Ca_kabuli_chr03	6608449	GG	TT	1946769400
SNP_P4_28968_6608725	NC_021162.1	Ca_kabuli_chr03	6608725	TT	AA	1946769403
SNP_P4_28969_6608740	NC_021162.1	Ca_kabuli_chr03	6608740	CC	TT	1946769405
SNP_P4_28970_6608861	NC_021162.1	Ca_kabuli_chr03	6608861	TT	AA	1946769407

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_28972_6621993	NC_021162.1	Ca_kabuli_chr03	6621993	CC	TT	1946769411
SNP_P4_28973_6646801	NC_021162.1	Ca_kabuli_chr03	6646801	TT	GG	1946769413
SNP_P4_28974_6648599	NC_021162.1	Ca_kabuli_chr03	6648599	CC	TT	1946769415
SNP_P4_28975_6649696	NC_021162.1	Ca_kabuli_chr03	6649696	GG	AA	1946769417
SNP_P4_28978_6675431	NC_021162.1	Ca_kabuli_chr03	6675431	AA	GG	1946769419
SNP_P4_28979_6675470	NC_021162.1	Ca_kabuli_chr03	6675470	GG	TT	1946769421
SNP_P4_28980_6675544	NC_021162.1	Ca_kabuli_chr03	6675544	TT	CC	1946769423
SNP_P4_28981_6675562	NC_021162.1	Ca_kabuli_chr03	6675562	AA	GG	1946769425
SNP_P4_28982_6675633	NC_021162.1	Ca_kabuli_chr03	6675633	TT	GG	1946769427
SNP_P4_28983_6683646	NC_021162.1	Ca_kabuli_chr03	6683646	AA	GG	1946769429
SNP_P4_28984_6698037	NC_021162.1	Ca_kabuli_chr03	6698037	AA	GG	1946769431
SNP_P4_28985_6699470	NC_021162.1	Ca_kabuli_chr03	6699470	TT	CC	1946769433
SNP_P4_28986_6722037	NC_021162.1	Ca_kabuli_chr03	6722037	GG	AA	1946769435
SNP_P4_28988_6724076	NC_021162.1	Ca_kabuli_chr03	6724076	AA	GG	1946769437
SNP_P4_28989_6724288	NC_021162.1	Ca_kabuli_chr03	6724288	TT	CC	1946769439
SNP_P4_28990_6728901	NC_021162.1	Ca_kabuli_chr03	6728901	AA	GG	1946769441
SNP_P4_28992_6738522	NC_021162.1	Ca_kabuli_chr03	6738522	CC	TT	1946769443
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SNP_P4_28996_6740895	NC_021162.1	Ca_kabuli_chr03	6740895	CC	TT	1946769452
SNP_P4_28997_6740990	NC_021162.1	Ca_kabuli_chr03	6740990	TT	CC	1946769454
SNP_P4_28998_6753802	NC_021162.1	Ca_kabuli_chr03	6753802	AA	GG	1946769457
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SNP_P4_29000_6753838	NC_021162.1	Ca_kabuli_chr03	6753838	AA	GG	1946769461
SNP_P4_29001_6757539	NC_021162.1	Ca_kabuli_chr03	6757539	AA	CC	1946769463
SNP_P4_29002_6771187	NC_021162.1	Ca_kabuli_chr03	6771187	GG	AA	1946769465
SNP_P4_29003_6772025	NC_021162.1	Ca_kabuli_chr03	6772025	TT	CC	1946769467
SNP_P4_29004_6772524	NC_021162.1	Ca_kabuli_chr03	6772524	TT	CC	1946769469
SNP_P4_29005_6772552	NC_021162.1	Ca_kabuli_chr03	6772552	CC	TT	1946769471
SNP_P4_29006_6772738	NC_021162.1	Ca_kabuli_chr03	6772738	AA	GG	1946769473
SNP_P4_29007_6772746	NC_021162.1	Ca_kabuli_chr03	6772746	AA	GG	1946769475
SNP_P4_29009_6773044	NC_021162.1	Ca_kabuli_chr03	6773044	CC	AA	1946769477
SNP_P4_29010_6773169	NC_021162.1	Ca_kabuli_chr03	6773169	GG	AA	1946769479
SNP_P4_29011_6773171	NC_021162.1	Ca_kabuli_chr03	6773171	AA	GG	1946769481
SNP_P4_29012_6773439	NC_021162.1	Ca_kabuli_chr03	6773439	TT	CC	1946769483
SNP_P4_29013_6773443	NC_021162.1	Ca_kabuli_chr03	6773443	TT	CC	1946769485
SNP_P4_29014_6773447	NC_021162.1	Ca_kabuli_chr03	6773447	GG	AA	1946769487
SNP_P4_29015_6773481	NC_021162.1	Ca_kabuli_chr03	6773481	TT	CC	1946769489
SNP_P4_29016_6774057	NC_021162.1	Ca_kabuli_chr03	6774057	CC	TT	1946769491
SNP_P4_29018_6774146	NC_021162.1	Ca_kabuli_chr03	6774146	GG	AA	1946769494

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_29021_6774379	NC_021162.1	Ca_kabuli_chr03	6774379	AA	GG	1946769500
SNP_P4_29022_6774452	NC_021162.1	Ca_kabuli_chr03	6774452	TT	CC	1946769502
SNP_P4_29023_6774461	NC_021162.1	Ca_kabuli_chr03	6774461	AA	GG	1946769504
SNP_P4_29024_6777878	NC_021162.1	Ca_kabuli_chr03	6777878	CC	TT	1946769506
SNP_P4_29025_6780284	NC_021162.1	Ca_kabuli_chr03	6780284	AA	GG	1946769508
SNP_P4_29026_6780285	NC_021162.1	Ca_kabuli_chr03	6780285	GG	AA	1946769510
SNP_P4_29027_6780322	NC_021162.1	Ca_kabuli_chr03	6780322	CC	TT	1946769512
SNP_P4_29029_6780560	NC_021162.1	Ca_kabuli_chr03	6780560	GG	AA	1946769514
SNP_P4_29030_6780651	NC_021162.1	Ca_kabuli_chr03	6780651	TT	AA	1946769516
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SNP_P4_29034_6781062	NC_021162.1	Ca_kabuli_chr03	6781062	TT	GG	1946769524
SNP_P4_29035_6781078	NC_021162.1	Ca_kabuli_chr03	6781078	CC	AA	1946769526
SNP_P4_29036_6781193	NC_021162.1	Ca_kabuli_chr03	6781193	AA	CC	1946769528
SNP_P4_29037_6781214	NC_021162.1	Ca_kabuli_chr03	6781214	AA	GG	1946769531
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SNP_P4_29039_6781247	NC_021162.1	Ca_kabuli_chr03	6781247	GG	AA	1946769535
SNP_P4_29040_6781311	NC_021162.1	Ca_kabuli_chr03	6781311	CC	TT	1946769537
SNP_P4_29041_6790084	NC_021162.1	Ca_kabuli_chr03	6790084	GG	AA	1946769539
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SNP_P4_29051_6818043	NC_021162.1	Ca_kabuli_chr03	6818043	CC	TT	1946769556
SNP_P4_29052_6821764	NC_021162.1	Ca_kabuli_chr03	6821764	GG	CC	1946769558
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SNP_P4_29055_6822080	NC_021162.1	Ca_kabuli_chr03	6822080	GG	AA	1946769562
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SNP_P4_29057_6822158	NC_021162.1	Ca_kabuli_chr03	6822158	AA	GG	1946769566
SNP_P4_29059_6823678	NC_021162.1	Ca_kabuli_chr03	6823678	CC	TT	1946769568
SNP_P4_29060_6825995	NC_021162.1	Ca_kabuli_chr03	6825995	AA	CC	1946769570
SNP_P4_29061_6826099	NC_021162.1	Ca_kabuli_chr03	6826099	TT	CC	1946769573
SNP_P4_29062_6826292	NC_021162.1	Ca_kabuli_chr03	6826292	GG	AA	1946769575
SNP_P4_29063_6826297	NC_021162.1	Ca_kabuli_chr03	6826297	TT	CC	1946769577
SNP_P4_29065_6842435	NC_021162.1	Ca_kabuli_chr03	6842435	GG	AA	1946769579
SNP_P4_29066_6859411	NC_021162.1	Ca_kabuli_chr03	6859411	GG	TT	1946769581

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_29069_6859470	NC_021162.1	Ca_kabuli_chr03	6859470	CC	AA	1946769587
SNP_P4_29070_6859498	NC_021162.1	Ca_kabuli_chr03	6859498	TT	CC	1946769589
SNP_P4_29071_6859508	NC_021162.1	Ca_kabuli_chr03	6859508	CC	TT	1946769591
SNP_P4_29072_6859561	NC_021162.1	Ca_kabuli_chr03	6859561	GG	AA	1946769593
SNP_P4_29073_6859668	NC_021162.1	Ca_kabuli_chr03	6859668	GG	AA	1946769596
SNP_P4_29074_6859762	NC_021162.1	Ca_kabuli_chr03	6859762	TT	CC	1946769598
SNP_P4_29075_6859889	NC_021162.1	Ca_kabuli_chr03	6859889	GG	AA	1946769600
SNP_P4_29076_6859890	NC_021162.1	Ca_kabuli_chr03	6859890	TT	CC	1946769602
SNP_P4_29077_6867200	NC_021162.1	Ca_kabuli_chr03	6867200	GG	CC	1946769604
SNP_P4_29078_6867251	NC_021162.1	Ca_kabuli_chr03	6867251	GG	AA	1946769606
SNP_P4_29079_6867917	NC_021162.1	Ca_kabuli_chr03	6867917	TT	AA	1946769608
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SNP_P4_29081_6869138	NC_021162.1	Ca_kabuli_chr03	6869138	CC	TT	1946769612
SNP_P4_29082_6869150	NC_021162.1	Ca_kabuli_chr03	6869150	CC	TT	1946769615
SNP_P4_29083_6869153	NC_021162.1	Ca_kabuli_chr03	6869153	GG	AA	1946769617
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SNP_P4_29086_6893330	NC_021162.1	Ca_kabuli_chr03	6893330	GG	AA	1946769623
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SNP_P4_29088_6906187	NC_021162.1	Ca_kabuli_chr03	6906187	AA	GG	1946769627
SNP_P4_29089_6906547	NC_021162.1	Ca_kabuli_chr03	6906547	TT	GG	1946769629
SNP_P4_29090_6906571	NC_021162.1	Ca_kabuli_chr03	6906571	TT	CC	1946769631
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SNP_P4_29094_6966638	NC_021162.1	Ca_kabuli_chr03	6966638	CC	TT	1946769636
SNP_P4_29095_6984191	NC_021162.1	Ca_kabuli_chr03	6984191	CC	TT	1946769638
SNP_P4_29096_6984207	NC_021162.1	Ca_kabuli_chr03	6984207	GG	TT	1946769640
SNP_P4_29097_6997448	NC_021162.1	Ca_kabuli_chr03	6997448	GG	AA	1946769642
SNP_P4_29098_6997465	NC_021162.1	Ca_kabuli_chr03	6997465	GG	AA	1946769644
SNP_P4_29099_7037173	NC_021162.1	Ca_kabuli_chr03	7037173	CC	AA	1946769646
SNP_P4_29100_7045344	NC_021162.1	Ca_kabuli_chr03	7045344	CC	TT	1946769648
SNP_P4_29101_7049354	NC_021162.1	Ca_kabuli_chr03	7049354	TT	CC	1946769650
SNP_P4_29102_7056308	NC_021162.1	Ca_kabuli_chr03	7056308	GG	AA	1946769652
SNP_P4_29103_7065569	NC_021162.1	Ca_kabuli_chr03	7065569	AA	CC	1946769654
SNP_P4_29104_7065580	NC_021162.1	Ca_kabuli_chr03	7065580	AA	GG	1946769656
SNP_P4_29105_7065621	NC_021162.1	Ca_kabuli_chr03	7065621	TT	AA	1946769658
SNP_P4_29106_7065625	NC_021162.1	Ca_kabuli_chr03	7065625	CC	TT	1946769660
SNP_P4_29107_7065637	NC_021162.1	Ca_kabuli_chr03	7065637	GG	AA	1946769662
SNP_P4_29108_7065728	NC_021162.1	Ca_kabuli_chr03	7065728	AA	CC	1946769664
SNP_P4_29109_7107271	NC_021162.1	Ca_kabuli_chr03	7107271	TT	CC	1946769666
SNP_P4_29111_7119623	NC_021162.1	Ca_kabuli_chr03	7119623	CC	TT	1946769668

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_29113_7120291	NC_021162.1	Ca_kabuli_chr03	7120291	TT	CC	1946769672
SNP_P4_29114_7120370	NC_021162.1	Ca_kabuli_chr03	7120370	GG	AA	1946769675
SNP_P4_29115_7120627	NC_021162.1	Ca_kabuli_chr03	7120627	AA	GG	1946769677
SNP_P4_29116_7162939	NC_021162.1	Ca_kabuli_chr03	7162939	TT	GG	1946769679
SNP_P4_29118_7247354	NC_021162.1	Ca_kabuli_chr03	7247354	CC	TT	1946769681
SNP_P4_29119_7280034	NC_021162.1	Ca_kabuli_chr03	7280034	TT	CC	1946769683
SNP_P4_29120_7284640	NC_021162.1	Ca_kabuli_chr03	7284640	CC	TT	1946769685
SNP_P4_29123_7338389	NC_021162.1	Ca_kabuli_chr03	7338389	AA	CC	1946769687
SNP_P4_29125_7340236	NC_021162.1	Ca_kabuli_chr03	7340236	AA	GG	1946769689
SNP_P4_29126_7354022	NC_021162.1	Ca_kabuli_chr03	7354022	AA	GG	1946769691
SNP_P4_29127_7368069	NC_021162.1	Ca_kabuli_chr03	7368069	GG	CC	1946769693
SNP_P4_29128_7368089	NC_021162.1	Ca_kabuli_chr03	7368089	CC	TT	1946769695
SNP_P4_29129_7373338	NC_021162.1	Ca_kabuli_chr03	7373338	GG	TT	1946769697
SNP_P4_29131_7430628	NC_021162.1	Ca_kabuli_chr03	7430628	CC	AA	1946769699
SNP_P4_29132_7441819	NC_021162.1	Ca_kabuli_chr03	7441819	GG	AA	1946769701
SNP_P4_29134_7470707	NC_021162.1	Ca_kabuli_chr03	7470707	CC	GG	1946769703
SNP_P4_29135_7480793	NC_021162.1	Ca_kabuli_chr03	7480793	AA	GG	1946769706
SNP_P4_29136_7480796	NC_021162.1	Ca_kabuli_chr03	7480796	GG	AA	1946769708
SNP_P4_29137_7480822	NC_021162.1	Ca_kabuli_chr03	7480822	GG	AA	1946769710
SNP_P4_29138_7480838	NC_021162.1	Ca_kabuli_chr03	7480838	AA	GG	1946769712
SNP_P4_29139_7480840	NC_021162.1	Ca_kabuli_chr03	7480840	AA	GG	1946769714
SNP_P4_29140_7480846	NC_021162.1	Ca_kabuli_chr03	7480846	GG	AA	1946769716
SNP_P4_29141_7480851	NC_021162.1	Ca_kabuli_chr03	7480851	AA	GG	1946769718
SNP_P4_29142_7480858	NC_021162.1	Ca_kabuli_chr03	7480858	AA	TT	1946769721
SNP_P4_29143_7480865	NC_021162.1	Ca_kabuli_chr03	7480865	GG	AA	1946769723
SNP_P4_29144_7480879	NC_021162.1	Ca_kabuli_chr03	7480879	AA	GG	1946769725
SNP_P4_29146_7496614	NC_021162.1	Ca_kabuli_chr03	7496614	GG	CC	1946769727
SNP_P4_29147_7497642	NC_021162.1	Ca_kabuli_chr03	7497642	TT	CC	1946769729
SNP_P4_29148_7544237	NC_021162.1	Ca_kabuli_chr03	7544237	GG	AA	1946769731
SNP_P4_29149_7564345	NC_021162.1	Ca_kabuli_chr03	7564345	CC	TT	1946769733
SNP_P4_29150_7570957	NC_021162.1	Ca_kabuli_chr03	7570957	TT	AA	1946769736
SNP_P4_29151_7570958	NC_021162.1	Ca_kabuli_chr03	7570958	TT	GG	1946769738
SNP_P4_29152_7596894	NC_021162.1	Ca_kabuli_chr03	7596894	GG	AA	1946769740
SNP_P4_29153_7596938	NC_021162.1	Ca_kabuli_chr03	7596938	GG	AA	1946769742
SNP_P4_29154_7597036	NC_021162.1	Ca_kabuli_chr03	7597036	TT	CC	1946769744
SNP_P4_29155_7597065	NC_021162.1	Ca_kabuli_chr03	7597065	CC	GG	1946769746
SNP_P4_29156_7597316	NC_021162.1	Ca_kabuli_chr03	7597316	CC	TT	1946769748
SNP_P4_29157_7597432	NC_021162.1	Ca_kabuli_chr03	7597432	CC	TT	1946769750
SNP_P4_29158_7597441	NC_021162.1	Ca_kabuli_chr03	7597441	GG	TT	1946769752
SNP_P4_29160_7682043	NC_021162.1	Ca_kabuli_chr03	7682043	AA	GG	1946769755
SNP_P4_29161_7682273	NC_021162.1	Ca_kabuli_chr03	7682273	GG	AA	1946769757

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_29163_7682542	NC_021162.1	Ca_kabuli_chr03	7682542	GG	AA	1946769761
SNP_P4_29164_7682576	NC_021162.1	Ca_kabuli_chr03	7682576	CC	TT	1946769763
SNP_P4_29165_7682577	NC_021162.1	Ca_kabuli_chr03	7682577	AA	GG	1946769765
SNP_P4_29166_7686896	NC_021162.1	Ca_kabuli_chr03	7686896	CC	TT	1946769767
SNP_P4_29167_7689393	NC_021162.1	Ca_kabuli_chr03	7689393	TT	GG	1946769769
SNP_P4_29169_7754309	NC_021162.1	Ca_kabuli_chr03	7754309	AA	TT	1946769772
SNP_P4_29171_7774804	NC_021162.1	Ca_kabuli_chr03	7774804	TT	CC	1946769774
SNP_P4_29172_7782748	NC_021162.1	Ca_kabuli_chr03	7782748	CC	AA	1946769776
SNP_P4_29173_7783536	NC_021162.1	Ca_kabuli_chr03	7783536	GG	AA	1946769778
SNP_P4_29175_7792887	NC_021162.1	Ca_kabuli_chr03	7792887	AA	GG	1946769780
SNP_P4_29176_7801457	NC_021162.1	Ca_kabuli_chr03	7801457	AA	GG	1946769782
SNP_P4_29177_7801573	NC_021162.1	Ca_kabuli_chr03	7801573	AA	GG	1946769784
SNP_P4_29178_7804266	NC_021162.1	Ca_kabuli_chr03	7804266	AA	GG	1946769786
SNP_P4_29179_7804559	NC_021162.1	Ca_kabuli_chr03	7804559	TT	GG	1946769788
SNP_P4_29180_7804607	NC_021162.1	Ca_kabuli_chr03	7804607	AA	GG	1946769790
SNP_P4_29181_7804924	NC_021162.1	Ca_kabuli_chr03	7804924	TT	GG	1946769792
SNP_P4_29182_7804934	NC_021162.1	Ca_kabuli_chr03	7804934	AA	GG	1946769794
SNP_P4_29183_7830611	NC_021162.1	Ca_kabuli_chr03	7830611	CC	TT	1946769796
SNP_P4_29184_7847374	NC_021162.1	Ca_kabuli_chr03	7847374	TT	CC	1946769798
SNP_P4_29185_7847741	NC_021162.1	Ca_kabuli_chr03	7847741	TT	CC	1946769800
SNP_P4_29186_7868320	NC_021162.1	Ca_kabuli_chr03	7868320	AA	GG	1946769802
SNP_P4_29187_7868321	NC_021162.1	Ca_kabuli_chr03	7868321	AA	GG	1946769805
SNP_P4_29188_7880202	NC_021162.1	Ca_kabuli_chr03	7880202	AA	GG	1946769807
SNP_P4_29189_7884320	NC_021162.1	Ca_kabuli_chr03	7884320	AA	TT	1946769809
SNP_P4_29190_7885434	NC_021162.1	Ca_kabuli_chr03	7885434	CC	TT	1946769811
SNP_P4_29191_7886111	NC_021162.1	Ca_kabuli_chr03	7886111	CC	TT	1946769813
SNP_P4_29192_7900347	NC_021162.1	Ca_kabuli_chr03	7900347	AA	GG	1946769815
SNP_P4_29193_7915268	NC_021162.1	Ca_kabuli_chr03	7915268	GG	CC	1946769817
SNP_P4_29194_7923059	NC_021162.1	Ca_kabuli_chr03	7923059	TT	CC	1946769820
SNP_P4_29195_7924842	NC_021162.1	Ca_kabuli_chr03	7924842	GG	AA	1946769822
SNP_P4_29196_7959265	NC_021162.1	Ca_kabuli_chr03	7959265	GG	TT	1946769824
SNP_P4_29197_7959420	NC_021162.1	Ca_kabuli_chr03	7959420	AA	CC	1946769826
SNP_P4_29198_7959450	NC_021162.1	Ca_kabuli_chr03	7959450	TT	CC	1946769828
SNP_P4_29199_7959455	NC_021162.1	Ca_kabuli_chr03	7959455	CC	TT	1946769830
SNP_P4_29200_7959594	NC_021162.1	Ca_kabuli_chr03	7959594	GG	AA	1946769832
SNP_P4_29201_7959601	NC_021162.1	Ca_kabuli_chr03	7959601	AA	CC	1946769834
SNP_P4_29202_7959718	NC_021162.1	Ca_kabuli_chr03	7959718	AA	TT	1946769836
SNP_P4_29203_7959744	NC_021162.1	Ca_kabuli_chr03	7959744	AA	GG	1946769838
SNP_P4_29205_7959882	NC_021162.1	Ca_kabuli_chr03	7959882	CC	TT	1946769840
SNP_P4_29206_7959912	NC_021162.1	Ca_kabuli_chr03	7959912	CC	TT	1946769842
SNP_P4_29207_7959918	NC_021162.1	Ca_kabuli_chr03	7959918	GG	AA	1946769844

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_29209_7963472	NC_021162.1	Ca_kabuli_chr03	7963472	AA	GG	1946769848
SNP_P4_29210_7963516	NC_021162.1	Ca_kabuli_chr03	7963516	CC	TT	1946769850
SNP_P4_29211_7963533	NC_021162.1	Ca_kabuli_chr03	7963533	AA	GG	1946769852
SNP_P4_29212_7963568	NC_021162.1	Ca_kabuli_chr03	7963568	TT	CC	1946769854
SNP_P4_29213_7963571	NC_021162.1	Ca_kabuli_chr03	7963571	TT	AA	1946769856
SNP_P4_29214_7963783	NC_021162.1	Ca_kabuli_chr03	7963783	TT	CC	1946769858
SNP_P4_29215_7972863	NC_021162.1	Ca_kabuli_chr03	7972863	CC	TT	1946769860
SNP_P4_29216_7972876	NC_021162.1	Ca_kabuli_chr03	7972876	GG	AA	1946769862
SNP_P4_29217_7979776	NC_021162.1	Ca_kabuli_chr03	7979776	CC	TT	1946769864
SNP_P4_29218_7989380	NC_021162.1	Ca_kabuli_chr03	7989380	AA	TT	1946769866
SNP_P4_29219_8026788	NC_021162.1	Ca_kabuli_chr03	8026788	TT	CC	1946769868
SNP_P4_29220_8028585	NC_021162.1	Ca_kabuli_chr03	8028585	GG	AA	1946769870
SNP_P4_29221_8029547	NC_021162.1	Ca_kabuli_chr03	8029547	CC	TT	1946769872
SNP_P4_29222_8030009	NC_021162.1	Ca_kabuli_chr03	8030009	GG	AA	1946769875
SNP_P4_29223_8058436	NC_021162.1	Ca_kabuli_chr03	8058436	AA	TT	1946769877
SNP_P4_29225_8062018	NC_021162.1	Ca_kabuli_chr03	8062018	AA	GG	1946769879
SNP_P4_29226_8062043	NC_021162.1	Ca_kabuli_chr03	8062043	TT	CC	1946769881
SNP_P4_29227_8062078	NC_021162.1	Ca_kabuli_chr03	8062078	CC	TT	1946769884
SNP_P4_29228_8062098	NC_021162.1	Ca_kabuli_chr03	8062098	TT	CC	1946769886
SNP_P4_29229_8062113	NC_021162.1	Ca_kabuli_chr03	8062113	TT	CC	1946769888
SNP_P4_29230_8062124	NC_021162.1	Ca_kabuli_chr03	8062124	AA	CC	1946769890
SNP_P4_29231_8062127	NC_021162.1	Ca_kabuli_chr03	8062127	AA	CC	1946769892
SNP_P4_29232_8062197	NC_021162.1	Ca_kabuli_chr03	8062197	AA	CC	1946769894
SNP_P4_29233_8062216	NC_021162.1	Ca_kabuli_chr03	8062216	GG	TT	1946769896
SNP_P4_29234_8062348	NC_021162.1	Ca_kabuli_chr03	8062348	GG	AA	1946769898
SNP_P4_29235_8062386	NC_021162.1	Ca_kabuli_chr03	8062386	CC	TT	1946769900
SNP_P4_29236_8062389	NC_021162.1	Ca_kabuli_chr03	8062389	CC	AA	1946769902
SNP_P4_29237_8062451	NC_021162.1	Ca_kabuli_chr03	8062451	AA	CC	1946769904
SNP_P4_29238_8062506	NC_021162.1	Ca_kabuli_chr03	8062506	AA	GG	1946769906
SNP_P4_29239_8062510	NC_021162.1	Ca_kabuli_chr03	8062510	TT	CC	1946769908
SNP_P4_29240_8064480	NC_021162.1	Ca_kabuli_chr03	8064480	AA	GG	1946769910
SNP_P4_29241_8066919	NC_021162.1	Ca_kabuli_chr03	8066919	CC	AA	1946769912
SNP_P4_29242_8066922	NC_021162.1	Ca_kabuli_chr03	8066922	GG	AA	1946769914
SNP_P4_29244_8087910	NC_021162.1	Ca_kabuli_chr03	8087910	AA	CC	1946769916
SNP_P4_29245_8088092	NC_021162.1	Ca_kabuli_chr03	8088092	AA	CC	1946769918
SNP_P4_29246_8088131	NC_021162.1	Ca_kabuli_chr03	8088131	GG	CC	1946769920
SNP_P4_29247_8088149	NC_021162.1	Ca_kabuli_chr03	8088149	CC	AA	1946769922
SNP_P4_29248_8088257	NC_021162.1	Ca_kabuli_chr03	8088257	AA	CC	1946769924
SNP_P4_29249_8088269	NC_021162.1	Ca_kabuli_chr03	8088269	TT	CC	1946769926
SNP_P4_29251_8088319	NC_021162.1	Ca_kabuli_chr03	8088319	TT	CC	1946769928
SNP_P4_29252_8088345	NC_021162.1	Ca_kabuli_chr03	8088345	GG	AA	1946769930

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_29254_8088387	NC_021162.1	Ca_kabuli_chr03	8088387	TT	CC	1946769934
SNP_P4_29255_8088394	NC_021162.1	Ca_kabuli_chr03	8088394	TT	CC	1946769936
SNP_P4_29256_8088419	NC_021162.1	Ca_kabuli_chr03	8088419	AA	CC	1946769938
SNP_P4_29257_8088433	NC_021162.1	Ca_kabuli_chr03	8088433	CC	AA	1946769941
SNP_P4_29258_8088434	NC_021162.1	Ca_kabuli_chr03	8088434	TT	GG	1946769943
SNP_P4_29259_8088447	NC_021162.1	Ca_kabuli_chr03	8088447	GG	AA	1946769945
SNP_P4_29260_8088452	NC_021162.1	Ca_kabuli_chr03	8088452	GG	AA	1946769947
SNP_P4_29261_8088479	NC_021162.1	Ca_kabuli_chr03	8088479	AA	TT	1946769949
SNP_P4_29262_8088480	NC_021162.1	Ca_kabuli_chr03	8088480	TT	CC	1946769951
SNP_P4_29263_8088509	NC_021162.1	Ca_kabuli_chr03	8088509	GG	TT	1946769953
SNP_P4_29264_8088534	NC_021162.1	Ca_kabuli_chr03	8088534	AA	CC	1946769955
SNP_P4_29265_8088586	NC_021162.1	Ca_kabuli_chr03	8088586	TT	CC	1946769957
SNP_P4_29266_8089354	NC_021162.1	Ca_kabuli_chr03	8089354	AA	GG	1946769959
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SNP_P4_29268_8143558	NC_021162.1	Ca_kabuli_chr03	8143558	AA	TT	1946769963
SNP_P4_29270_8157250	NC_021162.1	Ca_kabuli_chr03	8157250	CC	TT	1946769965
SNP_P4_29271_8166222	NC_021162.1	Ca_kabuli_chr03	8166222	TT	AA	1946769967
SNP_P4_29272_8190534	NC_021162.1	Ca_kabuli_chr03	8190534	GG	AA	1946769969
SNP_P4_29273_8200581	NC_021162.1	Ca_kabuli_chr03	8200581	GG	TT	1946769971
SNP_P4_29274_8212686	NC_021162.1	Ca_kabuli_chr03	8212686	AA	GG	1946769973
SNP_P4_29275_8221970	NC_021162.1	Ca_kabuli_chr03	8221970	CC	AA	1946769975
SNP_P4_29276_8221971	NC_021162.1	Ca_kabuli_chr03	8221971	AA	TT	1946769977
SNP_P4_29277_8222541	NC_021162.1	Ca_kabuli_chr03	8222541	TT	GG	1946769979
SNP_P4_29278_8226093	NC_021162.1	Ca_kabuli_chr03	8226093	AA	GG	1946769981
SNP_P4_29279_8234498	NC_021162.1	Ca_kabuli_chr03	8234498	TT	AA	1946769983
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SNP_P4_29282_8240937	NC_021162.1	Ca_kabuli_chr03	8240937	CC	TT	1946769989
SNP_P4_29283_8241073	NC_021162.1	Ca_kabuli_chr03	8241073	AA	GG	1946769991
SNP_P4_29284_8241086	NC_021162.1	Ca_kabuli_chr03	8241086	CC	TT	1946769993
SNP_P4_29285_8241160	NC_021162.1	Ca_kabuli_chr03	8241160	CC	TT	1946769995
SNP_P4_29286_8241319	NC_021162.1	Ca_kabuli_chr03	8241319	GG	CC	1946769997
SNP_P4_29287_8241839	NC_021162.1	Ca_kabuli_chr03	8241839	CC	TT	1946769999
SNP_P4_29288_8241858	NC_021162.1	Ca_kabuli_chr03	8241858	TT	CC	1946770001
SNP_P4_29289_8241880	NC_021162.1	Ca_kabuli_chr03	8241880	AA	GG	1946770003
SNP_P4_29290_8241881	NC_021162.1	Ca_kabuli_chr03	8241881	TT	CC	1946770005
SNP_P4_29292_8245635	NC_021162.1	Ca_kabuli_chr03	8245635	GG	AA	1946770007
SNP_P4_29293_8245668	NC_021162.1	Ca_kabuli_chr03	8245668	AA	GG	1946770009
SNP_P4_29294_8245671	NC_021162.1	Ca_kabuli_chr03	8245671	AA	CC	1946770012
SNP_P4_29295_8245781	NC_021162.1	Ca_kabuli_chr03	8245781	AA	GG	1946770014
SNP_P4_29296_8277187	NC_021162.1	Ca_kabuli_chr03	8277187	TT	CC	1946770016

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_29298_8277711	NC_021162.1	Ca_kabuli_chr03	8277711	CC	TT	1946770020
SNP_P4_29299_8278178	NC_021162.1	Ca_kabuli_chr03	8278178	AA	TT	1946770022
SNP_P4_29300_8282137	NC_021162.1	Ca_kabuli_chr03	8282137	CC	AA	1946770024
SNP_P4_29301_8282897	NC_021162.1	Ca_kabuli_chr03	8282897	TT	CC	1946770026
SNP_P4_29302_8282913	NC_021162.1	Ca_kabuli_chr03	8282913	GG	AA	1946770028
SNP_P4_29303_8284470	NC_021162.1	Ca_kabuli_chr03	8284470	TT	CC	1946770030
SNP_P4_29304_8302130	NC_021162.1	Ca_kabuli_chr03	8302130	TT	CC	1946770032
SNP_P4_29305_8302236	NC_021162.1	Ca_kabuli_chr03	8302236	CC	TT	1946770034
SNP_P4_29306_8302557	NC_021162.1	Ca_kabuli_chr03	8302557	AA	CC	1946770036
SNP_P4_29307_8304776	NC_021162.1	Ca_kabuli_chr03	8304776	CC	AA	1946770038
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SNP_P4_29312_8306712	NC_021162.1	Ca_kabuli_chr03	8306712	AA	GG	1946770048
SNP_P4_29313_8306740	NC_021162.1	Ca_kabuli_chr03	8306740	TT	CC	1946770051
SNP_P4_29314_8306785	NC_021162.1	Ca_kabuli_chr03	8306785	GG	AA	1946770053
SNP_P4_29315_8306821	NC_021162.1	Ca_kabuli_chr03	8306821	CC	TT	1946770055
SNP_P4_29316_8306845	NC_021162.1	Ca_kabuli_chr03	8306845	AA	GG	1946770057
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SNP_P4_29325_8384120	NC_021162.1	Ca_kabuli_chr03	8384120	AA	TT	1946770075
SNP_P4_29326_8386260	NC_021162.1	Ca_kabuli_chr03	8386260	AA	GG	1946770077
SNP_P4_29327_8386266	NC_021162.1	Ca_kabuli_chr03	8386266	GG	AA	1946770079
SNP_P4_29328_8392518	NC_021162.1	Ca_kabuli_chr03	8392518	AA	TT	1946770081
SNP_P4_29329_8392554	NC_021162.1	Ca_kabuli_chr03	8392554	TT	CC	1946770083
SNP_P4_29330_8392560	NC_021162.1	Ca_kabuli_chr03	8392560	CC	AA	1946770085
SNP_P4_29331_8392587	NC_021162.1	Ca_kabuli_chr03	8392587	CC	TT	1946770087
SNP_P4_29333_8394415	NC_021162.1	Ca_kabuli_chr03	8394415	TT	CC	1946770089
SNP_P4_29334_8413070	NC_021162.1	Ca_kabuli_chr03	8413070	TT	CC	1946770092
SNP_P4_29335_8413102	NC_021162.1	Ca_kabuli_chr03	8413102	AA	TT	1946770094
SNP_P4_29336_8413489	NC_021162.1	Ca_kabuli_chr03	8413489	TT	AA	1946770096
SNP_P4_29337_8431794	NC_021162.1	Ca_kabuli_chr03	8431794	CC	TT	1946770098
SNP_P4_29338_8436767	NC_021162.1	Ca_kabuli_chr03	8436767	TT	CC	1946770100
SNP_P4_29339_8437126	NC_021162.1	Ca_kabuli_chr03	8437126	TT	GG	1946770103

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_29341_8476023	NC_021162.1	Ca_kabuli_chr03	8476023	AA	CC	1946770107
SNP_P4_29342_8476025	NC_021162.1	Ca_kabuli_chr03	8476025	AA	GG	1946770109
SNP_P4_29343_8494536	NC_021162.1	Ca_kabuli_chr03	8494536	AA	TT	1946770111
SNP_P4_29344_8500988	NC_021162.1	Ca_kabuli_chr03	8500988	AA	GG	1946770113
SNP_P4_29345_8501119	NC_021162.1	Ca_kabuli_chr03	8501119	CC	GG	1946770115
SNP_P4_29346_8501402	NC_021162.1	Ca_kabuli_chr03	8501402	TT	AA	1946770117
SNP_P4_29347_8501416	NC_021162.1	Ca_kabuli_chr03	8501416	AA	CC	1946770119
SNP_P4_29348_8501451	NC_021162.1	Ca_kabuli_chr03	8501451	AA	GG	1946770121
SNP_P4_29349_8501456	NC_021162.1	Ca_kabuli_chr03	8501456	CC	TT	1946770123
SNP_P4_29350_8501466	NC_021162.1	Ca_kabuli_chr03	8501466	AA	GG	1946770125
SNP_P4_29351_8501515	NC_021162.1	Ca_kabuli_chr03	8501515	CC	GG	1946770127
SNP_P4_29352_8501782	NC_021162.1	Ca_kabuli_chr03	8501782	GG	CC	1946770129
SNP_P4_29353_8501829	NC_021162.1	Ca_kabuli_chr03	8501829	AA	GG	1946770131
SNP_P4_29355_8527521	NC_021162.1	Ca_kabuli_chr03	8527521	GG	AA	1946770133
SNP_P4_29356_8527527	NC_021162.1	Ca_kabuli_chr03	8527527	AA	GG	1946770135
SNP_P4_29357_8527618	NC_021162.1	Ca_kabuli_chr03	8527618	GG	AA	1946770137
SNP_P4_29358_8527761	NC_021162.1	Ca_kabuli_chr03	8527761	TT	CC	1946770140
SNP_P4_29359_8534716	NC_021162.1	Ca_kabuli_chr03	8534716	GG	TT	1946770142
SNP_P4_29360_8535045	NC_021162.1	Ca_kabuli_chr03	8535045	CC	TT	1946770144
SNP_P4_29361_8535190	NC_021162.1	Ca_kabuli_chr03	8535190	AA	GG	1946770146
SNP_P4_29362_8535241	NC_021162.1	Ca_kabuli_chr03	8535241	AA	CC	1946770148
SNP_P4_29363_8535291	NC_021162.1	Ca_kabuli_chr03	8535291	TT	CC	1946770150
SNP_P4_29364_8535364	NC_021162.1	Ca_kabuli_chr03	8535364	TT	CC	1946770152
SNP_P4_29365_8535369	NC_021162.1	Ca_kabuli_chr03	8535369	TT	CC	1946770154
SNP_P4_29366_8535487	NC_021162.1	Ca_kabuli_chr03	8535487	GG	TT	1946770156
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SNP_P4_29368_8535749	NC_021162.1	Ca_kabuli_chr03	8535749	AA	CC	1946770160
SNP_P4_29369_8535779	NC_021162.1	Ca_kabuli_chr03	8535779	CC	TT	1946770162
SNP_P4_29370_8535920	NC_021162.1	Ca_kabuli_chr03	8535920	TT	CC	1946770164
SNP_P4_29371_8535940	NC_021162.1	Ca_kabuli_chr03	8535940	AA	CC	1946770167
SNP_P4_29372_8536213	NC_021162.1	Ca_kabuli_chr03	8536213	TT	CC	1946770169
SNP_P4_29373_8536275	NC_021162.1	Ca_kabuli_chr03	8536275	CC	TT	1946770171
SNP_P4_29374_8536568	NC_021162.1	Ca_kabuli_chr03	8536568	TT	CC	1946770173
SNP_P4_29375_8539524	NC_021162.1	Ca_kabuli_chr03	8539524	CC	TT	1946770176
SNP_P4_29377_8545888	NC_021162.1	Ca_kabuli_chr03	8545888	GG	AA	1946770178
SNP_P4_29378_8545898	NC_021162.1	Ca_kabuli_chr03	8545898	TT	CC	1946770180
SNP_P4_29379_8545906	NC_021162.1	Ca_kabuli_chr03	8545906	AA	TT	1946770182
SNP_P4_29380_8550793	NC_021162.1	Ca_kabuli_chr03	8550793	GG	AA	1946770184
SNP_P4_29382_8608311	NC_021162.1	Ca_kabuli_chr03	8608311	AA	GG	1946770186
SNP_P4_29384_8622958	NC_021162.1	Ca_kabuli_chr03	8622958	AA	GG	1946770188
SNP_P4_29385_8624718	NC_021162.1	Ca_kabuli_chr03	8624718	CC	TT	1946770190

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_29387_8630597	NC_021162.1	Ca_kabuli_chr03	8630597	GG	AA	1946770194
SNP_P4_29388_8633044	NC_021162.1	Ca_kabuli_chr03	8633044	TT	CC	1946770196
SNP_P4_29389_8633282	NC_021162.1	Ca_kabuli_chr03	8633282	GG	AA	1946770198
SNP_P4_29390_8633312	NC_021162.1	Ca_kabuli_chr03	8633312	AA	GG	1946770200
SNP_P4_29391_8633353	NC_021162.1	Ca_kabuli_chr03	8633353	CC	TT	1946770203
SNP_P4_29392_8633367	NC_021162.1	Ca_kabuli_chr03	8633367	GG	AA	1946770205
SNP_P4_29393_8633387	NC_021162.1	Ca_kabuli_chr03	8633387	AA	GG	1946770207
SNP_P4_29394_8645825	NC_021162.1	Ca_kabuli_chr03	8645825	GG	AA	1946770209
SNP_P4_29395_8647445	NC_021162.1	Ca_kabuli_chr03	8647445	CC	TT	1946770211
SNP_P4_29396_8651674	NC_021162.1	Ca_kabuli_chr03	8651674	AA	GG	1946770213
SNP_P4_29397_8651691	NC_021162.1	Ca_kabuli_chr03	8651691	TT	GG	1946770215
SNP_P4_29398_8651707	NC_021162.1	Ca_kabuli_chr03	8651707	CC	TT	1946770217
SNP_P4_29399_8651731	NC_021162.1	Ca_kabuli_chr03	8651731	TT	CC	1946770219
SNP_P4_29400_8651767	NC_021162.1	Ca_kabuli_chr03	8651767	GG	AA	1946770221
SNP_P4_29401_8651891	NC_021162.1	Ca_kabuli_chr03	8651891	GG	TT	1946770223
SNP_P4_29402_8653335	NC_021162.1	Ca_kabuli_chr03	8653335	CC	TT	1946770225
SNP_P4_29403_8653344	NC_021162.1	Ca_kabuli_chr03	8653344	GG	AA	1946770227
SNP_P4_29404_8656688	NC_021162.1	Ca_kabuli_chr03	8656688	GG	TT	1946770229
SNP_P4_29405_8656700	NC_021162.1	Ca_kabuli_chr03	8656700	TT	CC	1946770231
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SNP_P4_29407_8718643	NC_021162.1	Ca_kabuli_chr03	8718643	GG	AA	1946770235
SNP_P4_29408_8727540	NC_021162.1	Ca_kabuli_chr03	8727540	AA	GG	1946770237
SNP_P4_29410_8737612	NC_021162.1	Ca_kabuli_chr03	8737612	AA	CC	1946770239
SNP_P4_29411_8756665	NC_021162.1	Ca_kabuli_chr03	8756665	GG	AA	1946770241
SNP_P4_29413_8778641	NC_021162.1	Ca_kabuli_chr03	8778641	GG	AA	1946770243
SNP_P4_29414_8795909	NC_021162.1	Ca_kabuli_chr03	8795909	GG	AA	1946770245
SNP_P4_29415_8800981	NC_021162.1	Ca_kabuli_chr03	8800981	GG	AA	1946770247
SNP_P4_29416_8823707	NC_021162.1	Ca_kabuli_chr03	8823707	AA	CC	1946770249
SNP_P4_29417_8836868	NC_021162.1	Ca_kabuli_chr03	8836868	TT	CC	1946770251
SNP_P4_29418_8860849	NC_021162.1	Ca_kabuli_chr03	8860849	GG	AA	1946770253
SNP_P4_29419_8861013	NC_021162.1	Ca_kabuli_chr03	8861013	CC	TT	1946770255
SNP_P4_29421_8900268	NC_021162.1	Ca_kabuli_chr03	8900268	AA	GG	1946770257
SNP_P4_29422_8915192	NC_021162.1	Ca_kabuli_chr03	8915192	TT	CC	1946770259
SNP_P4_29423_8933619	NC_021162.1	Ca_kabuli_chr03	8933619	TT	CC	1946770261
SNP_P4_29424_8933638	NC_021162.1	Ca_kabuli_chr03	8933638	GG	AA	1946770263
SNP_P4_29425_8941478	NC_021162.1	Ca_kabuli_chr03	8941478	GG	AA	1946770265
SNP_P4_29426_8941492	NC_021162.1	Ca_kabuli_chr03	8941492	TT	AA	1946770267
SNP_P4_29427_8941493	NC_021162.1	Ca_kabuli_chr03	8941493	AA	TT	1946770269
SNP_P4_29428_8941583	NC_021162.1	Ca_kabuli_chr03	8941583	CC	AA	1946770271
SNP_P4_29429_8941619	NC_021162.1	Ca_kabuli_chr03	8941619	CC	GG	1946770273
SNP_P4_29430_8941745	NC_021162.1	Ca_kabuli_chr03	8941745	CC	TT	1946770275

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_29432_8941858	NC_021162.1	Ca_kabuli_chr03	8941858	TT	AA	1946770280
SNP_P4_29433_8941873	NC_021162.1	Ca_kabuli_chr03	8941873	AA	CC	1946770282
SNP_P4_29434_8941919	NC_021162.1	Ca_kabuli_chr03	8941919	GG	CC	1946770284
SNP_P4_29436_8942203	NC_021162.1	Ca_kabuli_chr03	8942203	CC	TT	1946770286
SNP_P4_29437_8942204	NC_021162.1	Ca_kabuli_chr03	8942204	TT	CC	1946770288
SNP_P4_29438_8947981	NC_021162.1	Ca_kabuli_chr03	8947981	GG	AA	1946770289
SNP_P4_29439_8954423	NC_021162.1	Ca_kabuli_chr03	8954423	TT	CC	1946770290
SNP_P4_29440_8955085	NC_021162.1	Ca_kabuli_chr03	8955085	GG	AA	1946770291
SNP_P4_29441_8969182	NC_021162.1	Ca_kabuli_chr03	8969182	CC	TT	1946770292
SNP_P4_29442_9041660	NC_021162.1	Ca_kabuli_chr03	9041660	TT	CC	1946770294
SNP_P4_29443_9042199	NC_021162.1	Ca_kabuli_chr03	9042199	TT	AA	1946770296
SNP_P4_29444_9060267	NC_021162.1	Ca_kabuli_chr03	9060267	GG	AA	1946770298
SNP_P4_29445_9060398	NC_021162.1	Ca_kabuli_chr03	9060398	TT	CC	1946770301
SNP_P4_29446_9060444	NC_021162.1	Ca_kabuli_chr03	9060444	TT	AA	1946770303
SNP_P4_29447_9060445	NC_021162.1	Ca_kabuli_chr03	9060445	AA	GG	1946770305
SNP_P4_29448_9060506	NC_021162.1	Ca_kabuli_chr03	9060506	AA	TT	1946770307
SNP_P4_29449_9060542	NC_021162.1	Ca_kabuli_chr03	9060542	TT	CC	1946770309
SNP_P4_29450_9060589	NC_021162.1	Ca_kabuli_chr03	9060589	TT	CC	1946770311
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SNP_P4_29454_9060817	NC_021162.1	Ca_kabuli_chr03	9060817	GG	AA	1946770319
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SNP_P4_29456_9060937	NC_021162.1	Ca_kabuli_chr03	9060937	GG	AA	1946770323
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SNP_P4_29458_9061078	NC_021162.1	Ca_kabuli_chr03	9061078	AA	GG	1946770327
SNP_P4_29459_9061105	NC_021162.1	Ca_kabuli_chr03	9061105	CC	TT	1946770330
SNP_P4_29460_9061116	NC_021162.1	Ca_kabuli_chr03	9061116	GG	AA	1946770332
SNP_P4_29461_9063882	NC_021162.1	Ca_kabuli_chr03	9063882	CC	TT	1946770334
SNP_P4_29462_9063884	NC_021162.1	Ca_kabuli_chr03	9063884	AA	GG	1946770336
SNP_P4_29463_9063902	NC_021162.1	Ca_kabuli_chr03	9063902	CC	TT	1946770338
SNP_P4_29464_9063911	NC_021162.1	Ca_kabuli_chr03	9063911	GG	AA	1946770340
SNP_P4_29465_9063914	NC_021162.1	Ca_kabuli_chr03	9063914	CC	TT	1946770342
SNP_P4_29466_9063938	NC_021162.1	Ca_kabuli_chr03	9063938	AA	GG	1946770344
SNP_P4_29467_9063941	NC_021162.1	Ca_kabuli_chr03	9063941	TT	GG	1946770346
SNP_P4_29468_9063944	NC_021162.1	Ca_kabuli_chr03	9063944	AA	GG	1946770349
SNP_P4_29470_9063965	NC_021162.1	Ca_kabuli_chr03	9063965	GG	AA	1946770351
SNP_P4_29471_9063974	NC_021162.1	Ca_kabuli_chr03	9063974	AA	GG	1946770353
SNP_P4_29472_9063977	NC_021162.1	Ca_kabuli_chr03	9063977	TT	CC	1946770355
SNP_P4_29473_9063994	NC_021162.1	Ca_kabuli_chr03	9063994	GG	TT	1946770357
SNP_P4_29474_9064024	NC_021162.1	Ca_kabuli_chr03	9064024	AA	GG	1946770359

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_29476_9064027	NC_021162.1	Ca_kabuli_chr03	9064027	TT	CC	1946770364
SNP_P4_29477_9064103	NC_021162.1	Ca_kabuli_chr03	9064103	TT	CC	1946770366
SNP_P4_29478_9064142	NC_021162.1	Ca_kabuli_chr03	9064142	AA	GG	1946770368
SNP_P4_29479_9066977	NC_021162.1	Ca_kabuli_chr03	9066977	AA	GG	1946770370
SNP_P4_29480_9067061	NC_021162.1	Ca_kabuli_chr03	9067061	CC	TT	1946770374
SNP_P4_29481_9067330	NC_021162.1	Ca_kabuli_chr03	9067330	AA	GG	1946770376
SNP_P4_29482_9067333	NC_021162.1	Ca_kabuli_chr03	9067333	GG	AA	1946770378
SNP_P4_29483_9067342	NC_021162.1	Ca_kabuli_chr03	9067342	GG	CC	1946770380
SNP_P4_29484_9067370	NC_021162.1	Ca_kabuli_chr03	9067370	CC	TT	1946770382
SNP_P4_29485_9067373	NC_021162.1	Ca_kabuli_chr03	9067373	AA	GG	1946770385
SNP_P4_29486_9067400	NC_021162.1	Ca_kabuli_chr03	9067400	AA	GG	1946770387
SNP_P4_29487_9067425	NC_021162.1	Ca_kabuli_chr03	9067425	AA	GG	1946770389
SNP_P4_29488_9067479	NC_021162.1	Ca_kabuli_chr03	9067479	GG	AA	1946770391
SNP_P4_29490_9068528	NC_021162.1	Ca_kabuli_chr03	9068528	CC	TT	1946770393
SNP_P4_29491_9144617	NC_021162.1	Ca_kabuli_chr03	9144617	AA	GG	1946770395
SNP_P4_29492_9144640	NC_021162.1	Ca_kabuli_chr03	9144640	GG	CC	1946770397
SNP_P4_29493_9144662	NC_021162.1	Ca_kabuli_chr03	9144662	TT	AA	1946770400
SNP_P4_29494_9185409	NC_021162.1	Ca_kabuli_chr03	9185409	AA	GG	1946770402
SNP_P4_29496_9193474	NC_021162.1	Ca_kabuli_chr03	9193474	AA	GG	1946770404
SNP_P4_29497_9195641	NC_021162.1	Ca_kabuli_chr03	9195641	TT	GG	1946770407
SNP_P4_29498_9196013	NC_021162.1	Ca_kabuli_chr03	9196013	AA	GG	1946770409
SNP_P4_29500_9229271	NC_021162.1	Ca_kabuli_chr03	9229271	AA	CC	1946770411
SNP_P4_29501_9229866	NC_021162.1	Ca_kabuli_chr03	9229866	TT	CC	1946770413
SNP_P4_29502_9230532	NC_021162.1	Ca_kabuli_chr03	9230532	CC	TT	1946770415
SNP_P4_29503_9236240	NC_021162.1	Ca_kabuli_chr03	9236240	GG	AA	1946770417
SNP_P4_29505_9290195	NC_021162.1	Ca_kabuli_chr03	9290195	CC	TT	1946770419
SNP_P4_29506_9305229	NC_021162.1	Ca_kabuli_chr03	9305229	TT	GG	1946770421
SNP_P4_29507_9305235	NC_021162.1	Ca_kabuli_chr03	9305235	TT	CC	1946770423
SNP_P4_29509_9374726	NC_021162.1	Ca_kabuli_chr03	9374726	TT	AA	1946770425
SNP_P4_29510_9374730	NC_021162.1	Ca_kabuli_chr03	9374730	AA	TT	1946770428
SNP_P4_29511_9374741	NC_021162.1	Ca_kabuli_chr03	9374741	TT	CC	1946770430
SNP_P4_29512_9374977	NC_021162.1	Ca_kabuli_chr03	9374977	GG	TT	1946770432
SNP_P4_29513_9399930	NC_021162.1	Ca_kabuli_chr03	9399930	TT	AA	1946770434
SNP_P4_29514_9401904	NC_021162.1	Ca_kabuli_chr03	9401904	GG	AA	1946770436
SNP_P4_29515_9404996	NC_021162.1	Ca_kabuli_chr03	9404996	CC	AA	1946770439
SNP_P4_29516_9405463	NC_021162.1	Ca_kabuli_chr03	9405463	TT	AA	1946770441
SNP_P4_29517_9408047	NC_021162.1	Ca_kabuli_chr03	9408047	GG	AA	1946770443
SNP_P4_29518_9416331	NC_021162.1	Ca_kabuli_chr03	9416331	AA	GG	1946770445
SNP_P4_29519_9416333	NC_021162.1	Ca_kabuli_chr03	9416333	TT	AA	1946770447
SNP_P4_29521_9418089	NC_021162.1	Ca_kabuli_chr03	9418089	GG	AA	1946770449
SNP_P4_29522_9418397	NC_021162.1	Ca_kabuli_chr03	9418397	AA	CC	1946770451

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_29524_9418622	NC_021162.1	Ca_kabuli_chr03	9418622	AA	GG	1946770456
SNP_P4_29525_9418648	NC_021162.1	Ca_kabuli_chr03	9418648	CC	TT	1946770458
SNP_P4_29526_9418682	NC_021162.1	Ca_kabuli_chr03	9418682	GG	AA	1946770460
SNP_P4_29529_9429199	NC_021162.1	Ca_kabuli_chr03	9429199	CC	TT	1946770463
SNP_P4_29530_9429239	NC_021162.1	Ca_kabuli_chr03	9429239	AA	CC	1946770465
SNP_P4_29531_9429335	NC_021162.1	Ca_kabuli_chr03	9429335	GG	TT	1946770467
SNP_P4_29532_9429588	NC_021162.1	Ca_kabuli_chr03	9429588	GG	TT	1946770470
SNP_P4_29533_9429615	NC_021162.1	Ca_kabuli_chr03	9429615	AA	TT	1946770472
SNP_P4_29534_9429651	NC_021162.1	Ca_kabuli_chr03	9429651	AA	GG	1946770475
SNP_P4_29535_9429673	NC_021162.1	Ca_kabuli_chr03	9429673	AA	GG	1946770477
SNP_P4_29536_9429684	NC_021162.1	Ca_kabuli_chr03	9429684	CC	TT	1946770479
SNP_P4_29537_9429688	NC_021162.1	Ca_kabuli_chr03	9429688	TT	CC	1946770481
SNP_P4_29538_9429751	NC_021162.1	Ca_kabuli_chr03	9429751	AA	GG	1946770483
SNP_P4_29539_9429779	NC_021162.1	Ca_kabuli_chr03	9429779	TT	CC	1946770485
SNP_P4_29540_9434455	NC_021162.1	Ca_kabuli_chr03	9434455	AA	GG	1946770488
SNP_P4_29541_9453191	NC_021162.1	Ca_kabuli_chr03	9453191	AA	TT	1946770490
SNP_P4_29542_9465401	NC_021162.1	Ca_kabuli_chr03	9465401	CC	TT	1946770492
SNP_P4_29543_9487724	NC_021162.1	Ca_kabuli_chr03	9487724	AA	TT	1946770494
SNP_P4_29544_9487767	NC_021162.1	Ca_kabuli_chr03	9487767	AA	TT	1946770496
SNP_P4_29546_9501502	NC_021162.1	Ca_kabuli_chr03	9501502	AA	GG	1946770498
SNP_P4_29547_9501682	NC_021162.1	Ca_kabuli_chr03	9501682	AA	CC	1946770500
SNP_P4_29548_9501698	NC_021162.1	Ca_kabuli_chr03	9501698	AA	CC	1946770502
SNP_P4_29549_9502041	NC_021162.1	Ca_kabuli_chr03	9502041	TT	CC	1946770503
SNP_P4_29550_9512479	NC_021162.1	Ca_kabuli_chr03	9512479	AA	TT	1946770504
SNP_P4_29551_9521441	NC_021162.1	Ca_kabuli_chr03	9521441	GG	AA	1946770506
SNP_P4_29552_9539187	NC_021162.1	Ca_kabuli_chr03	9539187	TT	AA	1946770508
SNP_P4_29553_9539198	NC_021162.1	Ca_kabuli_chr03	9539198	CC	TT	1946770511
SNP_P4_29554_9539200	NC_021162.1	Ca_kabuli_chr03	9539200	TT	CC	1946770513
SNP_P4_29555_9540674	NC_021162.1	Ca_kabuli_chr03	9540674	AA	TT	1946770515
SNP_P4_29556_9562678	NC_021162.1	Ca_kabuli_chr03	9562678	GG	TT	1946770517
SNP_P4_29557_9577875	NC_021162.1	Ca_kabuli_chr03	9577875	AA	GG	1946770519
SNP_P4_29558_9577902	NC_021162.1	Ca_kabuli_chr03	9577902	CC	GG	1946770522
SNP_P4_29560_9578032	NC_021162.1	Ca_kabuli_chr03	9578032	TT	CC	1946770524
SNP_P4_29561_9578264	NC_021162.1	Ca_kabuli_chr03	9578264	TT	CC	1946770526
SNP_P4_29562_9578341	NC_021162.1	Ca_kabuli_chr03	9578341	TT	GG	1946770528
SNP_P4_29563_9578346	NC_021162.1	Ca_kabuli_chr03	9578346	TT	CC	1946770530
SNP_P4_29564_9578388	NC_021162.1	Ca_kabuli_chr03	9578388	TT	GG	1946770532
SNP_P4_29565_9578412	NC_021162.1	Ca_kabuli_chr03	9578412	TT	GG	1946770534
SNP_P4_29566_9578688	NC_021162.1	Ca_kabuli_chr03	9578688	AA	GG	1946770537
SNP_P4_29567_9578703	NC_021162.1	Ca_kabuli_chr03	9578703	GG	TT	1946770539
SNP_P4_29568_9578841	NC_021162.1	Ca_kabuli_chr03	9578841	CC	TT	1946770541

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_29570_9584381	NC_021162.1	Ca_kabuli_chr03	9584381	CC	TT	1946770545
SNP_P4_29571_9584383	NC_021162.1	Ca_kabuli_chr03	9584383	AA	GG	1946770547
SNP_P4_29572_9584398	NC_021162.1	Ca_kabuli_chr03	9584398	CC	TT	1946770550
SNP_P4_29573_9584412	NC_021162.1	Ca_kabuli_chr03	9584412	GG	AA	1946770552
SNP_P4_29574_9584535	NC_021162.1	Ca_kabuli_chr03	9584535	CC	AA	1946770554
SNP_P4_29575_9584554	NC_021162.1	Ca_kabuli_chr03	9584554	AA	TT	1946770556
SNP_P4_29576_9584556	NC_021162.1	Ca_kabuli_chr03	9584556	TT	AA	1946770558
SNP_P4_29577_9584557	NC_021162.1	Ca_kabuli_chr03	9584557	CC	AA	1946770560
SNP_P4_29578_9584604	NC_021162.1	Ca_kabuli_chr03	9584604	CC	TT	1946770562
SNP_P4_29579_9584611	NC_021162.1	Ca_kabuli_chr03	9584611	GG	AA	1946770564
SNP_P4_29580_9584677	NC_021162.1	Ca_kabuli_chr03	9584677	AA	GG	1946770566
SNP_P4_29581_9584678	NC_021162.1	Ca_kabuli_chr03	9584678	CC	AA	1946770568
SNP_P4_29582_9596046	NC_021162.1	Ca_kabuli_chr03	9596046	AA	GG	1946770571
SNP_P4_29583_9608117	NC_021162.1	Ca_kabuli_chr03	9608117	GG	AA	1946770573
SNP_P4_29584_9608133	NC_021162.1	Ca_kabuli_chr03	9608133	CC	AA	1946770575
SNP_P4_29585_9614012	NC_021162.1	Ca_kabuli_chr03	9614012	CC	TT	1946770577
SNP_P4_29586_9615753	NC_021162.1	Ca_kabuli_chr03	9615753	AA	TT	1946770579
SNP_P4_29587_9623375	NC_021162.1	Ca_kabuli_chr03	9623375	GG	AA	1946770581
SNP_P4_29588_9623376	NC_021162.1	Ca_kabuli_chr03	9623376	AA	CC	1946770584
SNP_P4_29589_9649822	NC_021162.1	Ca_kabuli_chr03	9649822	GG	TT	1946770586
SNP_P4_29591_9649887	NC_021162.1	Ca_kabuli_chr03	9649887	GG	AA	1946770589
SNP_P4_29592_9650548	NC_021162.1	Ca_kabuli_chr03	9650548	AA	TT	1946770591
SNP_P4_29593_9650559	NC_021162.1	Ca_kabuli_chr03	9650559	GG	AA	1946770593
SNP_P4_29594_9650583	NC_021162.1	Ca_kabuli_chr03	9650583	TT	CC	1946770595
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SNP_P4_29598_9709168	NC_021162.1	Ca_kabuli_chr03	9709168	TT	GG	1946770601
SNP_P4_29599_9709194	NC_021162.1	Ca_kabuli_chr03	9709194	AA	TT	1946770603
SNP_P4_29601_9754628	NC_021162.1	Ca_kabuli_chr03	9754628	GG	AA	1946770605
SNP_P4_29602_9767065	NC_021162.1	Ca_kabuli_chr03	9767065	TT	AA	1946770608
SNP_P4_29603_9780224	NC_021162.1	Ca_kabuli_chr03	9780224	CC	TT	1946770610
SNP_P4_29604_9785165	NC_021162.1	Ca_kabuli_chr03	9785165	TT	CC	1946770612
SNP_P4_29605_9785182	NC_021162.1	Ca_kabuli_chr03	9785182	AA	TT	1946770614
SNP_P4_29606_9793340	NC_021162.1	Ca_kabuli_chr03	9793340	CC	AA	1946770616
SNP_P4_29607_9825181	NC_021162.1	Ca_kabuli_chr03	9825181	GG	AA	1946770618
SNP_P4_29610_9849186	NC_021162.1	Ca_kabuli_chr03	9849186	TT	AA	1946770620
SNP_P4_29611_9894248	NC_021162.1	Ca_kabuli_chr03	9894248	GG	TT	1946770622
SNP_P4_29612_9917714	NC_021162.1	Ca_kabuli_chr03	9917714	GG	TT	1946770624
SNP_P4_29613_9922032	NC_021162.1	Ca_kabuli_chr03	9922032	AA	TT	1946770626
SNP_P4_29614_9939266	NC_021162.1	Ca_kabuli_chr03	9939266	TT	CC	1946770628
SNP_P4_29615_9940409	NC_021162.1	Ca_kabuli_chr03	9940409	TT	CC	1946770631

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_29619_9953150	NC_021162.1	Ca_kabuli_chr03	9953150	TT	CC	1946770637
SNP_P4_29621_9966885	NC_021162.1	Ca_kabuli_chr03	9966885	AA	GG	1946770639
SNP_P4_29622_9967426	NC_021162.1	Ca_kabuli_chr03	9967426	GG	TT	1946770641
SNP_P4_29623_9967749	NC_021162.1	Ca_kabuli_chr03	9967749	TT	CC	1946770643
SNP_P4_29624_9967750	NC_021162.1	Ca_kabuli_chr03	9967750	AA	TT	1946770645
SNP_P4_29625_9968623	NC_021162.1	Ca_kabuli_chr03	9968623	GG	AA	1946770647
SNP_P4_29626_9968730	NC_021162.1	Ca_kabuli_chr03	9968730	CC	GG	1946770649
SNP_P4_29627_9988946	NC_021162.1	Ca_kabuli_chr03	9988946	TT	AA	1946770651
SNP_P4_29628_9993801	NC_021162.1	Ca_kabuli_chr03	9993801	TT	CC	1946770653
SNP_P4_29629_9994133	NC_021162.1	Ca_kabuli_chr03	9994133	GG	AA	1946770655
SNP_P4_29630_9994159	NC_021162.1	Ca_kabuli_chr03	9994159	GG	AA	1946770657
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SNP_P4_29632_10005162	NC_021162.1	Ca_kabuli_chr03	10005162	AA	CC	1946770661
SNP_P4_29633_10009230	NC_021162.1	Ca_kabuli_chr03	10009230	TT	GG	1946770664
SNP_P4_29634_10009237	NC_021162.1	Ca_kabuli_chr03	10009237	GG	AA	1946770666
SNP_P4_29635_10013132	NC_021162.1	Ca_kabuli_chr03	10013132	TT	GG	1946770668
SNP_P4_29636_10014385	NC_021162.1	Ca_kabuli_chr03	10014385	TT	CC	1946770670
SNP_P4_29637_10014730	NC_021162.1	Ca_kabuli_chr03	10014730	AA	GG	1946770672
SNP_P4_29638_10026450	NC_021162.1	Ca_kabuli_chr03	10026450	CC	AA	1946770674
SNP_P4_29639_10026478	NC_021162.1	Ca_kabuli_chr03	10026478	TT	GG	1946770676
SNP_P4_29640_10026538	NC_021162.1	Ca_kabuli_chr03	10026538	TT	AA	1946770678
SNP_P4_29641_10026736	NC_021162.1	Ca_kabuli_chr03	10026736	GG	AA	1946770680
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SNP_P4_29646_10094594	NC_021162.1	Ca_kabuli_chr03	10094594	TT	GG	1946770688
SNP_P4_29647_10094657	NC_021162.1	Ca_kabuli_chr03	10094657	AA	GG	1946770690
SNP_P4_29648_10095161	NC_021162.1	Ca_kabuli_chr03	10095161	GG	TT	1946770693
SNP_P4_29649_10110881	NC_021162.1	Ca_kabuli_chr03	10110881	AA	TT	1946770695
SNP_P4_29651_10147754	NC_021162.1	Ca_kabuli_chr03	10147754	AA	TT	1946770697
SNP_P4_29652_10150758	NC_021162.1	Ca_kabuli_chr03	10150758	AA	GG	1946770699
SNP_P4_29653_10159074	NC_021162.1	Ca_kabuli_chr03	10159074	AA	GG	1946770701
SNP_P4_29654_10159268	NC_021162.1	Ca_kabuli_chr03	10159268	AA	GG	1946770703
SNP_P4_29655_10159272	NC_021162.1	Ca_kabuli_chr03	10159272	CC	TT	1946770706
SNP_P4_29656_10159277	NC_021162.1	Ca_kabuli_chr03	10159277	CC	TT	1946770708
SNP_P4_29657_10159334	NC_021162.1	Ca_kabuli_chr03	10159334	TT	CC	1946770710
SNP_P4_29660_10159496	NC_021162.1	Ca_kabuli_chr03	10159496	TT	CC	1946770712
SNP_P4_29661_10159548	NC_021162.1	Ca_kabuli_chr03	10159548	TT	CC	1946770714
SNP_P4_29662_10159607	NC_021162.1	Ca_kabuli_chr03	10159607	AA	GG	1946770716
SNP_P4_29663_10159630	NC_021162.1	Ca_kabuli_chr03	10159630	TT	CC	1946770718

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_29667_10159709	NC_021162.1	Ca_kabuli_chr03	10159709	AA	CC	1946770724
SNP_P4_29668_10159710	NC_021162.1	Ca_kabuli_chr03	10159710	TT	CC	1946770726
SNP_P4_29669_10159714	NC_021162.1	Ca_kabuli_chr03	10159714	TT	CC	1946770728
SNP_P4_29670_10159787	NC_021162.1	Ca_kabuli_chr03	10159787	AA	CC	1946770730
SNP_P4_29671_10159795	NC_021162.1	Ca_kabuli_chr03	10159795	TT	GG	1946770733
SNP_P4_29672_10159812	NC_021162.1	Ca_kabuli_chr03	10159812	AA	GG	1946770735
SNP_P4_29673_10159818	NC_021162.1	Ca_kabuli_chr03	10159818	TT	CC	1946770737
SNP_P4_29674_10159822	NC_021162.1	Ca_kabuli_chr03	10159822	TT	CC	1946770739
SNP_P4_29675_10169165	NC_021162.1	Ca_kabuli_chr03	10169165	GG	AA	1946770741
SNP_P4_29676_10169196	NC_021162.1	Ca_kabuli_chr03	10169196	GG	AA	1946770743
SNP_P4_29677_10169224	NC_021162.1	Ca_kabuli_chr03	10169224	AA	GG	1946770745
SNP_P4_29678_10169320	NC_021162.1	Ca_kabuli_chr03	10169320	TT	CC	1946770747
SNP_P4_29679_10169330	NC_021162.1	Ca_kabuli_chr03	10169330	AA	GG	1946770749
SNP_P4_29680_10169335	NC_021162.1	Ca_kabuli_chr03	10169335	TT	CC	1946770751
SNP_P4_29681_10169512	NC_021162.1	Ca_kabuli_chr03	10169512	AA	GG	1946770753
SNP_P4_29682_10169553	NC_021162.1	Ca_kabuli_chr03	10169553	AA	CC	1946770755
SNP_P4_29683_10169594	NC_021162.1	Ca_kabuli_chr03	10169594	TT	CC	1946770757
SNP_P4_29684_10169615	NC_021162.1	Ca_kabuli_chr03	10169615	AA	GG	1946770759
SNP_P4_29685_10169627	NC_021162.1	Ca_kabuli_chr03	10169627	TT	CC	1946770761
SNP_P4_29687_10169685	NC_021162.1	Ca_kabuli_chr03	10169685	GG	CC	1946770763
SNP_P4_29688_10180372	NC_021162.1	Ca_kabuli_chr03	10180372	GG	TT	1946770765
SNP_P4_29689_10183938	NC_021162.1	Ca_kabuli_chr03	10183938	AA	GG	1946770767
SNP_P4_29690_10184259	NC_021162.1	Ca_kabuli_chr03	10184259	AA	GG	1946770769
SNP_P4_29691_10184514	NC_021162.1	Ca_kabuli_chr03	10184514	TT	CC	1946770771
SNP_P4_29692_10184519	NC_021162.1	Ca_kabuli_chr03	10184519	AA	TT	1946770773
SNP_P4_29693_10184523	NC_021162.1	Ca_kabuli_chr03	10184523	TT	CC	1946770775
SNP_P4_29694_10184548	NC_021162.1	Ca_kabuli_chr03	10184548	AA	CC	1946770777
SNP_P4_29695_10184968	NC_021162.1	Ca_kabuli_chr03	10184968	AA	GG	1946770779
SNP_P4_29696_10186758	NC_021162.1	Ca_kabuli_chr03	10186758	CC	TT	1946770781
SNP_P4_29697_10188632	NC_021162.1	Ca_kabuli_chr03	10188632	GG	CC	1946770783
SNP_P4_29698_10188638	NC_021162.1	Ca_kabuli_chr03	10188638	TT	AA	1946770785
SNP_P4_29699_10188686	NC_021162.1	Ca_kabuli_chr03	10188686	TT	GG	1946770787
SNP_P4_29700_10188688	NC_021162.1	Ca_kabuli_chr03	10188688	GG	TT	1946770790
SNP_P4_29701_10188694	NC_021162.1	Ca_kabuli_chr03	10188694	GG	TT	1946770792
SNP_P4_29702_10188699	NC_021162.1	Ca_kabuli_chr03	10188699	GG	CC	1946770794
SNP_P4_29704_10197351	NC_021162.1	Ca_kabuli_chr03	10197351	GG	AA	1946770796
SNP_P4_29705_10211518	NC_021162.1	Ca_kabuli_chr03	10211518	TT	CC	1946770798
SNP_P4_29706_10226228	NC_021162.1	Ca_kabuli_chr03	10226228	GG	CC	1946770800
SNP_P4_29707_10254917	NC_021162.1	Ca_kabuli_chr03	10254917	TT	CC	1946770802
SNP_P4_29708_10255319	NC_021162.1	Ca_kabuli_chr03	10255319	AA	GG	1946770805

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_29710_10255381	NC_021162.1	Ca_kabuli_chr03	10255381	TT	CC	1946770809
SNP_P4_29711_10255392	NC_021162.1	Ca_kabuli_chr03	10255392	TT	CC	1946770811
SNP_P4_29712_10255395	NC_021162.1	Ca_kabuli_chr03	10255395	TT	CC	1946770813
SNP_P4_29713_10255405	NC_021162.1	Ca_kabuli_chr03	10255405	AA	GG	1946770815
SNP_P4_29714_10265580	NC_021162.1	Ca_kabuli_chr03	10265580	TT	CC	1946770817
SNP_P4_29715_10265590	NC_021162.1	Ca_kabuli_chr03	10265590	GG	AA	1946770819
SNP_P4_29716_10342271	NC_021162.1	Ca_kabuli_chr03	10342271	AA	GG	1946770822
SNP_P4_29717_10342292	NC_021162.1	Ca_kabuli_chr03	10342292	GG	AA	1946770824
SNP_P4_29718_10342294	NC_021162.1	Ca_kabuli_chr03	10342294	CC	TT	1946770826
SNP_P4_29719_10342694	NC_021162.1	Ca_kabuli_chr03	10342694	AA	CC	1946770828
SNP_P4_29720_10342731	NC_021162.1	Ca_kabuli_chr03	10342731	AA	GG	1946770830
SNP_P4_29721_10350760	NC_021162.1	Ca_kabuli_chr03	10350760	AA	GG	1946770832
SNP_P4_29722_10389490	NC_021162.1	Ca_kabuli_chr03	10389490	TT	GG	1946770834
SNP_P4_29724_10404205	NC_021162.1	Ca_kabuli_chr03	10404205	TT	CC	1946770836
SNP_P4_29725_10404263	NC_021162.1	Ca_kabuli_chr03	10404263	CC	TT	1946770838
SNP_P4_29728_10498584	NC_021162.1	Ca_kabuli_chr03	10498584	TT	AA	1946770840
SNP_P4_29729_10498947	NC_021162.1	Ca_kabuli_chr03	10498947	AA	CC	1946770842
SNP_P4_29730_10505142	NC_021162.1	Ca_kabuli_chr03	10505142	AA	CC	1946770844
SNP_P4_29731_10505355	NC_021162.1	Ca_kabuli_chr03	10505355	TT	CC	1946770846
SNP_P4_29732_10505411	NC_021162.1	Ca_kabuli_chr03	10505411	GG	TT	1946770849
SNP_P4_29733_10514950	NC_021162.1	Ca_kabuli_chr03	10514950	AA	CC	1946770851
SNP_P4_29734_10514958	NC_021162.1	Ca_kabuli_chr03	10514958	AA	CC	1946770853
SNP_P4_29735_10540096	NC_021162.1	Ca_kabuli_chr03	10540096	CC	GG	1946770855
SNP_P4_29737_10594902	NC_021162.1	Ca_kabuli_chr03	10594902	CC	TT	1946770857
SNP_P4_29738_10594936	NC_021162.1	Ca_kabuli_chr03	10594936	AA	CC	1946770860
SNP_P4_29739_10594978	NC_021162.1	Ca_kabuli_chr03	10594978	AA	CC	1946770862
SNP_P4_29740_10595279	NC_021162.1	Ca_kabuli_chr03	10595279	CC	TT	1946770864
SNP_P4_29741_10608739	NC_021162.1	Ca_kabuli_chr03	10608739	AA	GG	1946770866
SNP_P4_29743_10663701	NC_021162.1	Ca_kabuli_chr03	10663701	TT	AA	1946770868
SNP_P4_29744_10670635	NC_021162.1	Ca_kabuli_chr03	10670635	AA	GG	1946770871
SNP_P4_29745_10670905	NC_021162.1	Ca_kabuli_chr03	10670905	TT	CC	1946770873
SNP_P4_29746_10674126	NC_021162.1	Ca_kabuli_chr03	10674126	GG	AA	1946770875
SNP_P4_29747_10678023	NC_021162.1	Ca_kabuli_chr03	10678023	GG	AA	1946770877
SNP_P4_29749_10849476	NC_021162.1	Ca_kabuli_chr03	10849476	AA	GG	1946770879
SNP_P4_29750_10849479	NC_021162.1	Ca_kabuli_chr03	10849479	AA	CC	1946770881
SNP_P4_29751_10851683	NC_021162.1	Ca_kabuli_chr03	10851683	GG	AA	1946770883
SNP_P4_29752_10851895	NC_021162.1	Ca_kabuli_chr03	10851895	AA	GG	1946770885
SNP_P4_29753_10851958	NC_021162.1	Ca_kabuli_chr03	10851958	AA	GG	1946770887
SNP_P4_29754_10851994	NC_021162.1	Ca_kabuli_chr03	10851994	AA	GG	1946770889
SNP_P4_29755_10852405	NC_021162.1	Ca_kabuli_chr03	10852405	AA	TT	1946770891
SNP_P4_29756_10852417	NC_021162.1	Ca_kabuli_chr03	10852417	GG	TT	1946770893

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_29758_10852432	NC_021162.1	Ca_kabuli_chr03	10852432	AA	GG	1946770897
SNP_P4_29759_10852448	NC_021162.1	Ca_kabuli_chr03	10852448	TT	GG	1946770899
SNP_P4_29760_10856412	NC_021162.1	Ca_kabuli_chr03	10856412	GG	AA	1946770901
SNP_P4_29761_10858765	NC_021162.1	Ca_kabuli_chr03	10858765	TT	GG	1946770903
SNP_P4_29762_10858767	NC_021162.1	Ca_kabuli_chr03	10858767	TT	AA	1946770905
SNP_P4_29765_10920158	NC_021162.1	Ca_kabuli_chr03	10920158	AA	GG	1946770907
SNP_P4_29766_10921755	NC_021162.1	Ca_kabuli_chr03	10921755	GG	AA	1946770909
SNP_P4_29767_10922384	NC_021162.1	Ca_kabuli_chr03	10922384	CC	TT	1946770911
SNP_P4_29768_10922915	NC_021162.1	Ca_kabuli_chr03	10922915	TT	GG	1946770914
SNP_P4_29769_10923019	NC_021162.1	Ca_kabuli_chr03	10923019	TT	AA	1946770916
SNP_P4_29770_10923031	NC_021162.1	Ca_kabuli_chr03	10923031	AA	GG	1946770918
SNP_P4_29771_10923111	NC_021162.1	Ca_kabuli_chr03	10923111	AA	GG	1946770920
SNP_P4_29772_10923130	NC_021162.1	Ca_kabuli_chr03	10923130	TT	AA	1946770922
SNP_P4_29773_10923148	NC_021162.1	Ca_kabuli_chr03	10923148	AA	GG	1946770924
SNP_P4_29775_10923178	NC_021162.1	Ca_kabuli_chr03	10923178	AA	GG	1946770926
SNP_P4_29776_10923181	NC_021162.1	Ca_kabuli_chr03	10923181	GG	AA	1946770928
SNP_P4_29777_10923184	NC_021162.1	Ca_kabuli_chr03	10923184	AA	GG	1946770930
SNP_P4_29779_10923298	NC_021162.1	Ca_kabuli_chr03	10923298	GG	AA	1946770932
SNP_P4_29780_10923304	NC_021162.1	Ca_kabuli_chr03	10923304	AA	GG	1946770934
SNP_P4_29781_10923478	NC_021162.1	Ca_kabuli_chr03	10923478	AA	GG	1946770936
SNP_P4_29782_10924893	NC_021162.1	Ca_kabuli_chr03	10924893	AA	GG	1946770938
SNP_P4_29783_10951995	NC_021162.1	Ca_kabuli_chr03	10951995	GG	AA	1946770940
SNP_P4_29784_10954227	NC_021162.1	Ca_kabuli_chr03	10954227	TT	CC	1946770942
SNP_P4_29785_10954249	NC_021162.1	Ca_kabuli_chr03	10954249	AA	TT	1946770944
SNP_P4_29786_10954289	NC_021162.1	Ca_kabuli_chr03	10954289	AA	GG	1946770947
SNP_P4_29787_10954463	NC_021162.1	Ca_kabuli_chr03	10954463	GG	TT	1946770949
SNP_P4_29788_10954473	NC_021162.1	Ca_kabuli_chr03	10954473	AA	GG	1946770951
SNP_P4_29789_10954524	NC_021162.1	Ca_kabuli_chr03	10954524	CC	TT	1946770953
SNP_P4_29790_10954571	NC_021162.1	Ca_kabuli_chr03	10954571	CC	TT	1946770955
SNP_P4_29791_10965659	NC_021162.1	Ca_kabuli_chr03	10965659	CC	TT	1946770957
SNP_P4_29792_10965660	NC_021162.1	Ca_kabuli_chr03	10965660	CC	TT	1946770959
SNP_P4_29793_10965672	NC_021162.1	Ca_kabuli_chr03	10965672	TT	CC	1946770961
SNP_P4_29795_10993646	NC_021162.1	Ca_kabuli_chr03	10993646	CC	TT	1946770963
SNP_P4_29796_10995425	NC_021162.1	Ca_kabuli_chr03	10995425	GG	AA	1946770966
SNP_P4_29797_11013256	NC_021162.1	Ca_kabuli_chr03	11013256	TT	CC	1946770968
SNP_P4_29798_11040734	NC_021162.1	Ca_kabuli_chr03	11040734	AA	GG	1946770970
SNP_P4_29799_11041013	NC_021162.1	Ca_kabuli_chr03	11041013	GG	AA	1946770972
SNP_P4_29800_11041105	NC_021162.1	Ca_kabuli_chr03	11041105	TT	AA	1946770974
SNP_P4_29801_11041106	NC_021162.1	Ca_kabuli_chr03	11041106	AA	TT	1946770976
SNP_P4_29804_11052056	NC_021162.1	Ca_kabuli_chr03	11052056	CC	GG	1946770979
SNP_P4_29805_11057723	NC_021162.1	Ca_kabuli_chr03	11057723	AA	TT	1946770981

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_29807_11087414	NC_021162.1	Ca_kabuli_chr03	11087414	TT	GG	1946770985
SNP_P4_29808_11087456	NC_021162.1	Ca_kabuli_chr03	11087456	GG	AA	1946770987
SNP_P4_29809_11087470	NC_021162.1	Ca_kabuli_chr03	11087470	TT	CC	1946770989
SNP_P4_29810_11098969	NC_021162.1	Ca_kabuli_chr03	11098969	CC	TT	1946770991
SNP_P4_29812_11130743	NC_021162.1	Ca_kabuli_chr03	11130743	AA	TT	1946770993
SNP_P4_29813_11142705	NC_021162.1	Ca_kabuli_chr03	11142705	TT	AA	1946770996
SNP_P4_29814_11142779	NC_021162.1	Ca_kabuli_chr03	11142779	TT	GG	1946770998
SNP_P4_29815_11142866	NC_021162.1	Ca_kabuli_chr03	11142866	AA	CC	1946771000
SNP_P4_29816_11142872	NC_021162.1	Ca_kabuli_chr03	11142872	TT	CC	1946771002
SNP_P4_29817_11142907	NC_021162.1	Ca_kabuli_chr03	11142907	AA	CC	1946771004
SNP_P4_29818_11142945	NC_021162.1	Ca_kabuli_chr03	11142945	TT	CC	1946771007
SNP_P4_29819_11146212	NC_021162.1	Ca_kabuli_chr03	11146212	GG	CC	1946771009
SNP_P4_29820_11146219	NC_021162.1	Ca_kabuli_chr03	11146219	GG	AA	1946771011
SNP_P4_29821_11146412	NC_021162.1	Ca_kabuli_chr03	11146412	GG	TT	1946771013
SNP_P4_29822_11146484	NC_021162.1	Ca_kabuli_chr03	11146484	CC	GG	1946771015
SNP_P4_29823_11146549	NC_021162.1	Ca_kabuli_chr03	11146549	AA	GG	1946771017
SNP_P4_29824_11146629	NC_021162.1	Ca_kabuli_chr03	11146629	CC	TT	1946771019
SNP_P4_29825_11146657	NC_021162.1	Ca_kabuli_chr03	11146657	GG	TT	1946771021
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SNP_P4_29827_11147063	NC_021162.1	Ca_kabuli_chr03	11147063	TT	GG	1946771026
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SNP_P4_29830_11231891	NC_021162.1	Ca_kabuli_chr03	11231891	AA	GG	1946771030
SNP_P4_29831_11231925	NC_021162.1	Ca_kabuli_chr03	11231925	TT	CC	1946771032
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SNP_P4_29841_11262940	NC_021162.1	Ca_kabuli_chr03	11262940	CC	TT	1946771045
SNP_P4_29842_11263152	NC_021162.1	Ca_kabuli_chr03	11263152	CC	TT	1946771047
SNP_P4_29843_11280508	NC_021162.1	Ca_kabuli_chr03	11280508	GG	TT	1946771049
SNP_P4_29844_11282152	NC_021162.1	Ca_kabuli_chr03	11282152	AA	GG	1946771051
SNP_P4_29845_11282365	NC_021162.1	Ca_kabuli_chr03	11282365	AA	GG	1946771053
SNP_P4_29846_11282367	NC_021162.1	Ca_kabuli_chr03	11282367	CC	TT	1946771055
SNP_P4_29847_11282404	NC_021162.1	Ca_kabuli_chr03	11282404	CC	TT	1946771057
SNP_P4_29848_11282433	NC_021162.1	Ca_kabuli_chr03	11282433	AA	GG	1946771059
SNP_P4_29849_11282458	NC_021162.1	Ca_kabuli_chr03	11282458	AA	GG	1946771061
SNP_P4_29850_11286111	NC_021162.1	Ca_kabuli_chr03	11286111	TT	AA	1946771064
SNP_P4_29851_11286119	NC_021162.1	Ca_kabuli_chr03	11286119	AA	GG	1946771066
SNP_P4_29852_11286125	NC_021162.1	Ca_kabuli_chr03	11286125	CC	TT	1946771068
SNP_P4_29855_11322621	NC_021162.1	Ca_kabuli_chr03	11322621	GG	AA	1946771070

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_29858_11329265	NC_021162.1	Ca_kabuli_chr03	11329265	TT	GG	1946771077
SNP_P4_29859_11354577	NC_021162.1	Ca_kabuli_chr03	11354577	TT	GG	1946771079
SNP_P4_29860_11354578	NC_021162.1	Ca_kabuli_chr03	11354578	TT	AA	1946771081
SNP_P4_29861_11388985	NC_021162.1	Ca_kabuli_chr03	11388985	TT	CC	1946771083
SNP_P4_29862_11402472	NC_021162.1	Ca_kabuli_chr03	11402472	AA	GG	1946771086
SNP_P4_29863_11404047	NC_021162.1	Ca_kabuli_chr03	11404047	CC	AA	1946771088
SNP_P4_29864_11457567	NC_021162.1	Ca_kabuli_chr03	11457567	CC	TT	1946771090
SNP_P4_29865_11457916	NC_021162.1	Ca_kabuli_chr03	11457916	CC	TT	1946771092
SNP_P4_29867_11464649	NC_021162.1	Ca_kabuli_chr03	11464649	TT	CC	1946771094
SNP_P4_29868_11465059	NC_021162.1	Ca_kabuli_chr03	11465059	AA	GG	1946771096
SNP_P4_29869_11465093	NC_021162.1	Ca_kabuli_chr03	11465093	AA	TT	1946771098
SNP_P4_29870_11495798	NC_021162.1	Ca_kabuli_chr03	11495798	TT	AA	1946771101
SNP_P4_29872_11497986	NC_021162.1	Ca_kabuli_chr03	11497986	CC	TT	1946771103
SNP_P4_29873_11498020	NC_021162.1	Ca_kabuli_chr03	11498020	AA	TT	1946771106
SNP_P4_29874_11498215	NC_021162.1	Ca_kabuli_chr03	11498215	TT	GG	1946771109
SNP_P4_29875_11498275	NC_021162.1	Ca_kabuli_chr03	11498275	TT	CC	1946771111
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SNP_P4_29880_11498357	NC_021162.1	Ca_kabuli_chr03	11498357	TT	CC	1946771122
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SNP_P4_29887_11527391	NC_021162.1	Ca_kabuli_chr03	11527391	AA	GG	1946771133
SNP_P4_29888_11527509	NC_021162.1	Ca_kabuli_chr03	11527509	AA	TT	1946771135
SNP_P4_29889_11527511	NC_021162.1	Ca_kabuli_chr03	11527511	AA	GG	1946771138
SNP_P4_29890_11527535	NC_021162.1	Ca_kabuli_chr03	11527535	AA	GG	1946771140
SNP_P4_29891_11527576	NC_021162.1	Ca_kabuli_chr03	11527576	AA	GG	1946771142
SNP_P4_29892_11527630	NC_021162.1	Ca_kabuli_chr03	11527630	GG	AA	1946771144
SNP_P4_29893_11527752	NC_021162.1	Ca_kabuli_chr03	11527752	AA	CC	1946771146
SNP_P4_29894_11527832	NC_021162.1	Ca_kabuli_chr03	11527832	AA	GG	1946771149
SNP_P4_29895_11527905	NC_021162.1	Ca_kabuli_chr03	11527905	AA	GG	1946771151
SNP_P4_29896_11527927	NC_021162.1	Ca_kabuli_chr03	11527927	AA	GG	1946771153
SNP_P4_29897_11528043	NC_021162.1	Ca_kabuli_chr03	11528043	AA	GG	1946771155
SNP_P4_29898_11528095	NC_021162.1	Ca_kabuli_chr03	11528095	GG	AA	1946771157
SNP_P4_29899_11536200	NC_021162.1	Ca_kabuli_chr03	11536200	TT	CC	1946771158
SNP_P4_29901_11570595	NC_021162.1	Ca_kabuli_chr03	11570595	CC	AA	1946771159
SNP_P4_29902_11571843	NC_021162.1	Ca_kabuli_chr03	11571843	CC	TT	1946771160

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_29904_11586551	NC_021162.1	Ca_kabuli_chr03	11586551	GG	AA	1946771162
SNP_P4_29905_11586578	NC_021162.1	Ca_kabuli_chr03	11586578	TT	CC	1946771163
SNP_P4_29906_11586640	NC_021162.1	Ca_kabuli_chr03	11586640	TT	AA	1946771164
SNP_P4_29907_11586683	NC_021162.1	Ca_kabuli_chr03	11586683	GG	AA	1946771165
SNP_P4_29908_11587125	NC_021162.1	Ca_kabuli_chr03	11587125	GG	TT	1946771166
SNP_P4_29909_11589857	NC_021162.1	Ca_kabuli_chr03	11589857	TT	GG	1946771167
SNP_P4_29910_11590142	NC_021162.1	Ca_kabuli_chr03	11590142	TT	GG	1946771169
SNP_P4_29912_11608343	NC_021162.1	Ca_kabuli_chr03	11608343	GG	CC	1946771172
SNP_P4_29913_11608346	NC_021162.1	Ca_kabuli_chr03	11608346	GG	AA	1946771174
SNP_P4_29914_11608356	NC_021162.1	Ca_kabuli_chr03	11608356	CC	TT	1946771176
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SNP_P4_29919_11735199	NC_021162.1	Ca_kabuli_chr03	11735199	GG	AA	1946771182
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SNP_P4_29923_11774087	NC_021162.1	Ca_kabuli_chr03	11774087	AA	TT	1946771191
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SNP_P4_29925_11774261	NC_021162.1	Ca_kabuli_chr03	11774261	GG	AA	1946771195
SNP_P4_29926_11774312	NC_021162.1	Ca_kabuli_chr03	11774312	AA	GG	1946771197
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SNP_P4_29929_11806397	NC_021162.1	Ca_kabuli_chr03	11806397	GG	AA	1946771203
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SNP_P4_29935_11875518	NC_021162.1	Ca_kabuli_chr03	11875518	AA	GG	1946771216
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SNP_P4_29940_11917347	NC_021162.1	Ca_kabuli_chr03	11917347	GG	TT	1946771222
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SNP_P4_29944_11949911	NC_021162.1	Ca_kabuli_chr03	11949911	TT	AA	1946771227
SNP_P4_29945_11950220	NC_021162.1	Ca_kabuli_chr03	11950220	TT	CC	1946771229
SNP_P4_29946_11950231	NC_021162.1	Ca_kabuli_chr03	11950231	CC	AA	1946771231
SNP_P4_29947_11950263	NC_021162.1	Ca_kabuli_chr03	11950263	CC	TT	1946771233
SNP_P4_29948_11950316	NC_021162.1	Ca_kabuli_chr03	11950316	GG	AA	1946771235
SNP_P4_29949_11950495	NC_021162.1	Ca_kabuli_chr03	11950495	CC	TT	1946771238
SNP_P4_29950_11950501	NC_021162.1	Ca_kabuli_chr03	11950501	CC	GG	1946771239
SNP_P4_29951_11957969	NC_021162.1	Ca_kabuli_chr03	11957969	TT	CC	1946771242

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_29955_12008370	NC_021162.1	Ca_kabuli_chr03	12008370	AA	GG	1946771248
SNP_P4_29956_12027024	NC_021162.1	Ca_kabuli_chr03	12027024	TT	GG	1946771250
SNP_P4_29957_12032060	NC_021162.1	Ca_kabuli_chr03	12032060	GG	AA	1946771252
SNP_P4_29958_12032069	NC_021162.1	Ca_kabuli_chr03	12032069	CC	AA	1946771255
SNP_P4_29959_12032125	NC_021162.1	Ca_kabuli_chr03	12032125	AA	TT	1946771257
SNP_P4_29960_12034162	NC_021162.1	Ca_kabuli_chr03	12034162	TT	CC	1946771259
SNP_P4_29961_12037682	NC_021162.1	Ca_kabuli_chr03	12037682	TT	CC	1946771262
SNP_P4_29962_12048298	NC_021162.1	Ca_kabuli_chr03	12048298	TT	CC	1946771264
SNP_P4_29964_12074906	NC_021162.1	Ca_kabuli_chr03	12074906	CC	TT	1946771266
SNP_P4_29965_12080826	NC_021162.1	Ca_kabuli_chr03	12080826	AA	CC	1946771268
SNP_P4_29966_12081024	NC_021162.1	Ca_kabuli_chr03	12081024	AA	GG	1946771271
SNP_P4_29967_12081058	NC_021162.1	Ca_kabuli_chr03	12081058	GG	CC	1946771273
SNP_P4_29968_12081071	NC_021162.1	Ca_kabuli_chr03	12081071	CC	AA	1946771275
SNP_P4_29970_12106671	NC_021162.1	Ca_kabuli_chr03	12106671	CC	AA	1946771277
SNP_P4_29971_12106807	NC_021162.1	Ca_kabuli_chr03	12106807	GG	AA	1946771280
SNP_P4_29972_12111477	NC_021162.1	Ca_kabuli_chr03	12111477	CC	TT	1946771282
SNP_P4_29973_12111545	NC_021162.1	Ca_kabuli_chr03	12111545	CC	TT	1946771284
SNP_P4_29974_12111628	NC_021162.1	Ca_kabuli_chr03	12111628	GG	AA	1946771286
SNP_P4_29975_12111629	NC_021162.1	Ca_kabuli_chr03	12111629	CC	TT	1946771288
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SNP_P4_29977_12111758	NC_021162.1	Ca_kabuli_chr03	12111758	TT	AA	1946771294
SNP_P4_29978_12111759	NC_021162.1	Ca_kabuli_chr03	12111759	TT	CC	1946771297
SNP_P4_29979_12111760	NC_021162.1	Ca_kabuli_chr03	12111760	TT	AA	1946771299
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SNP_P4_29982_12115369	NC_021162.1	Ca_kabuli_chr03	12115369	GG	TT	1946771305
SNP_P4_29983_12127557	NC_021162.1	Ca_kabuli_chr03	12127557	CC	TT	1946771307
SNP_P4_29984_12131454	NC_021162.1	Ca_kabuli_chr03	12131454	AA	GG	1946771310
SNP_P4_29985_12151871	NC_021162.1	Ca_kabuli_chr03	12151871	TT	CC	1946771312
SNP_P4_29986_12163829	NC_021162.1	Ca_kabuli_chr03	12163829	CC	AA	1946771314
SNP_P4_29987_12164150	NC_021162.1	Ca_kabuli_chr03	12164150	GG	AA	1946771316
SNP_P4_29989_12197360	NC_021162.1	Ca_kabuli_chr03	12197360	TT	AA	1946771318
SNP_P4_29990_12206527	NC_021162.1	Ca_kabuli_chr03	12206527	AA	CC	1946771320
SNP_P4_29991_12208945	NC_021162.1	Ca_kabuli_chr03	12208945	AA	GG	1946771322
SNP_P4_29992_12239571	NC_021162.1	Ca_kabuli_chr03	12239571	CC	AA	1946771324
SNP_P4_29993_12250800	NC_021162.1	Ca_kabuli_chr03	12250800	AA	GG	1946771327
SNP_P4_29995_12286939	NC_021162.1	Ca_kabuli_chr03	12286939	TT	GG	1946771329
SNP_P4_29997_12293886	NC_021162.1	Ca_kabuli_chr03	12293886	AA	TT	1946771331
SNP_P4_29998_12345798	NC_021162.1	Ca_kabuli_chr03	12345798	TT	AA	1946771334
SNP_P4_29999_12345910	NC_021162.1	Ca_kabuli_chr03	12345910	CC	AA	1946771337

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_30002_12345942	NC_021162.1	Ca_kabuli_chr03	12345942	GG	AA	1946771343
SNP_P4_30003_12346000	NC_021162.1	Ca_kabuli_chr03	12346000	AA	GG	1946771345
SNP_P4_30004_12346014	NC_021162.1	Ca_kabuli_chr03	12346014	GG	AA	1946771347
SNP_P4_30005_12348370	NC_021162.1	Ca_kabuli_chr03	12348370	TT	AA	1946771349
SNP_P4_30006_12348432	NC_021162.1	Ca_kabuli_chr03	12348432	AA	TT	1946771352
SNP_P4_30007_12373444	NC_021162.1	Ca_kabuli_chr03	12373444	TT	GG	1946771354
SNP_P4_30008_12387488	NC_021162.1	Ca_kabuli_chr03	12387488	TT	CC	1946771356
SNP_P4_30009_12387519	NC_021162.1	Ca_kabuli_chr03	12387519	GG	AA	1946771358
SNP_P4_30010_12387588	NC_021162.1	Ca_kabuli_chr03	12387588	AA	GG	1946771360
SNP_P4_30011_12387643	NC_021162.1	Ca_kabuli_chr03	12387643	CC	TT	1946771362
SNP_P4_30012_12387668	NC_021162.1	Ca_kabuli_chr03	12387668	TT	CC	1946771364
SNP_P4_30013_12387679	NC_021162.1	Ca_kabuli_chr03	12387679	AA	GG	1946771366
SNP_P4_30014_12387698	NC_021162.1	Ca_kabuli_chr03	12387698	TT	CC	1946771369
SNP_P4_30017_12423256	NC_021162.1	Ca_kabuli_chr03	12423256	TT	CC	1946771371
SNP_P4_30018_12423437	NC_021162.1	Ca_kabuli_chr03	12423437	CC	GG	1946771373
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SNP_P4_30020_12423576	NC_021162.1	Ca_kabuli_chr03	12423576	CC	TT	1946771377
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SNP_P4_30024_12432747	NC_021162.1	Ca_kabuli_chr03	12432747	GG	AA	1946771384
SNP_P4_30025_12438400	NC_021162.1	Ca_kabuli_chr03	12438400	TT	CC	1946771386
SNP_P4_30026_12451057	NC_021162.1	Ca_kabuli_chr03	12451057	CC	TT	1946771388
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SNP_P4_30030_12518431	NC_021162.1	Ca_kabuli_chr03	12518431	AA	GG	1946771396
SNP_P4_30031_12518446	NC_021162.1	Ca_kabuli_chr03	12518446	CC	AA	1946771398
SNP_P4_30032_12549275	NC_021162.1	Ca_kabuli_chr03	12549275	AA	GG	1946771400
SNP_P4_30033_12549307	NC_021162.1	Ca_kabuli_chr03	12549307	AA	CC	1946771402
SNP_P4_30034_12549326	NC_021162.1	Ca_kabuli_chr03	12549326	AA	GG	1946771405
SNP_P4_30035_12549704	NC_021162.1	Ca_kabuli_chr03	12549704	CC	GG	1946771407
SNP_P4_30036_12549717	NC_021162.1	Ca_kabuli_chr03	12549717	AA	GG	1946771409
SNP_P4_30038_12558986	NC_021162.1	Ca_kabuli_chr03	12558986	TT	CC	1946771411
SNP_P4_30039_12560207	NC_021162.1	Ca_kabuli_chr03	12560207	CC	TT	1946771413
SNP_P4_30040_12566315	NC_021162.1	Ca_kabuli_chr03	12566315	AA	GG	1946771415
SNP_P4_30041_12566605	NC_021162.1	Ca_kabuli_chr03	12566605	GG	AA	1946771417
SNP_P4_30042_12566658	NC_021162.1	Ca_kabuli_chr03	12566658	CC	GG	1946771419
SNP_P4_30043_12566766	NC_021162.1	Ca_kabuli_chr03	12566766	TT	GG	1946771421
SNP_P4_30044_12573582	NC_021162.1	Ca_kabuli_chr03	12573582	TT	CC	1946771423
SNP_P4_30045_12581143	NC_021162.1	Ca_kabuli_chr03	12581143	CC	TT	1946771426

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_30048_12581961	NC_021162.1	Ca_kabuli_chr03	12581961	CC	TT	1946771432
SNP_P4_30049_12582006	NC_021162.1	Ca_kabuli_chr03	12582006	AA	TT	1946771434
SNP_P4_30050_12587532	NC_021162.1	Ca_kabuli_chr03	12587532	GG	AA	1946771436
SNP_P4_30051_12603691	NC_021162.1	Ca_kabuli_chr03	12603691	TT	GG	1946771438
SNP_P4_30052_12618101	NC_021162.1	Ca_kabuli_chr03	12618101	GG	AA	1946771440
SNP_P4_30053_12622503	NC_021162.1	Ca_kabuli_chr03	12622503	AA	GG	1946771442
SNP_P4_30054_12650974	NC_021162.1	Ca_kabuli_chr03	12650974	AA	TT	1946771444
SNP_P4_30056_12660292	NC_021162.1	Ca_kabuli_chr03	12660292	TT	AA	1946771446
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SNP_P4_30061_12683930	NC_021162.1	Ca_kabuli_chr03	12683930	GG	AA	1946771457
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SNP_P4_30063_12699638	NC_021162.1	Ca_kabuli_chr03	12699638	GG	AA	1946771461
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SNP_P4_30069_12714273	NC_021162.1	Ca_kabuli_chr03	12714273	CC	TT	1946771474
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SNP_P4_30078_12739850	NC_021162.1	Ca_kabuli_chr03	12739850	GG	CC	1946771491
SNP_P4_30079_12739882	NC_021162.1	Ca_kabuli_chr03	12739882	AA	GG	1946771493
SNP_P4_30080_12740154	NC_021162.1	Ca_kabuli_chr03	12740154	AA	GG	1946771495
SNP_P4_30081_12740161	NC_021162.1	Ca_kabuli_chr03	12740161	TT	CC	1946771497
SNP_P4_30082_12747046	NC_021162.1	Ca_kabuli_chr03	12747046	CC	TT	1946771499
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SNP_P4_30084_12808647	NC_021162.1	Ca_kabuli_chr03	12808647	TT	GG	1946771503
SNP_P4_30085_12808666	NC_021162.1	Ca_kabuli_chr03	12808666	AA	GG	1946771505
SNP_P4_30086_12808677	NC_021162.1	Ca_kabuli_chr03	12808677	AA	GG	1946771507
SNP_P4_30087_12808871	NC_021162.1	Ca_kabuli_chr03	12808871	CC	AA	1946771509
SNP_P4_30088_12808902	NC_021162.1	Ca_kabuli_chr03	12808902	GG	AA	1946771511
SNP_P4_30089_12808948	NC_021162.1	Ca_kabuli_chr03	12808948	TT	GG	1946771513

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_30093_12823097	NC_021162.1	Ca_kabuli_chr03	12823097	GG	AA	1946771522
SNP_P4_30094_12823624	NC_021162.1	Ca_kabuli_chr03	12823624	TT	CC	1946771524
SNP_P4_30095_12823998	NC_021162.1	Ca_kabuli_chr03	12823998	AA	GG	1946771526
SNP_P4_30096_12827289	NC_021162.1	Ca_kabuli_chr03	12827289	GG	AA	1946771528
SNP_P4_30097_12839564	NC_021162.1	Ca_kabuli_chr03	12839564	GG	AA	1946771530
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SNP_P4_30099_12911057	NC_021162.1	Ca_kabuli_chr03	12911057	TT	AA	1946771534
SNP_P4_30100_12911114	NC_021162.1	Ca_kabuli_chr03	12911114	AA	GG	1946771537
SNP_P4_30102_12915733	NC_021162.1	Ca_kabuli_chr03	12915733	TT	GG	1946771539
SNP_P4_30103_12922189	NC_021162.1	Ca_kabuli_chr03	12922189	TT	CC	1946771541
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SNP_P4_30105_12922599	NC_021162.1	Ca_kabuli_chr03	12922599	GG	CC	1946771545
SNP_P4_30106_12922667	NC_021162.1	Ca_kabuli_chr03	12922667	AA	CC	1946771547
SNP_P4_30107_12969802	NC_021162.1	Ca_kabuli_chr03	12969802	TT	AA	1946771549
SNP_P4_30109_12993773	NC_021162.1	Ca_kabuli_chr03	12993773	CC	TT	1946771551
SNP_P4_30110_12993777	NC_021162.1	Ca_kabuli_chr03	12993777	TT	CC	1946771553
SNP_P4_30111_12993826	NC_021162.1	Ca_kabuli_chr03	12993826	CC	TT	1946771555
SNP_P4_30112_12993827	NC_021162.1	Ca_kabuli_chr03	12993827	AA	GG	1946771557
SNP_P4_30113_12993841	NC_021162.1	Ca_kabuli_chr03	12993841	TT	GG	1946771560
SNP_P4_30114_12993846	NC_021162.1	Ca_kabuli_chr03	12993846	GG	AA	1946771562
SNP_P4_30115_12993915	NC_021162.1	Ca_kabuli_chr03	12993915	AA	GG	1946771564
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SNP_P4_30118_12994177	NC_021162.1	Ca_kabuli_chr03	12994177	GG	TT	1946771570
SNP_P4_30119_12994183	NC_021162.1	Ca_kabuli_chr03	12994183	AA	CC	1946771572
SNP_P4_30120_12994188	NC_021162.1	Ca_kabuli_chr03	12994188	TT	CC	1946771573
SNP_P4_30121_12994235	NC_021162.1	Ca_kabuli_chr03	12994235	AA	GG	1946771574
SNP_P4_30122_12994253	NC_021162.1	Ca_kabuli_chr03	12994253	TT	CC	1946771575
SNP_P4_30123_12994262	NC_021162.1	Ca_kabuli_chr03	12994262	GG	AA	1946771576
SNP_P4_30124_12994269	NC_021162.1	Ca_kabuli_chr03	12994269	AA	CC	1946771578
SNP_P4_30125_12994305	NC_021162.1	Ca_kabuli_chr03	12994305	TT	CC	1946771580
SNP_P4_30126_12994318	NC_021162.1	Ca_kabuli_chr03	12994318	AA	GG	1946771582
SNP_P4_30127_12994324	NC_021162.1	Ca_kabuli_chr03	12994324	TT	GG	1946771584
SNP_P4_30128_12994374	NC_021162.1	Ca_kabuli_chr03	12994374	CC	TT	1946771586
SNP_P4_30129_13006634	NC_021162.1	Ca_kabuli_chr03	13006634	AA	GG	1946771588
SNP_P4_30130_13021529	NC_021162.1	Ca_kabuli_chr03	13021529	TT	GG	1946771590
SNP_P4_30131_13024373	NC_021162.1	Ca_kabuli_chr03	13024373	GG	AA	1946771592
SNP_P4_30132_13024376	NC_021162.1	Ca_kabuli_chr03	13024376	CC	TT	1946771594
SNP_P4_30133_13024396	NC_021162.1	Ca_kabuli_chr03	13024396	CC	TT	1946771596

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_30136_13024442	NC_021162.1	Ca_kabuli_chr03	13024442	AA	TT	1946771601
SNP_P4_30137_13034310	NC_021162.1	Ca_kabuli_chr03	13034310	CC	TT	1946771602
SNP_P4_30138_13036372	NC_021162.1	Ca_kabuli_chr03	13036372	AA	CC	1946771603
SNP_P4_30139_13036479	NC_021162.1	Ca_kabuli_chr03	13036479	AA	GG	1946771604
SNP_P4_30140_13036484	NC_021162.1	Ca_kabuli_chr03	13036484	AA	GG	1946771605
SNP_P4_30141_13038081	NC_021162.1	Ca_kabuli_chr03	13038081	TT	CC	1946771606
SNP_P4_30142_13038211	NC_021162.1	Ca_kabuli_chr03	13038211	GG	TT	1946771608
SNP_P4_30143_13040983	NC_021162.1	Ca_kabuli_chr03	13040983	TT	CC	1946771610
SNP_P4_30144_13041005	NC_021162.1	Ca_kabuli_chr03	13041005	GG	AA	1946771612
SNP_P4_30145_13041039	NC_021162.1	Ca_kabuli_chr03	13041039	AA	GG	1946771614
SNP_P4_30146_13041042	NC_021162.1	Ca_kabuli_chr03	13041042	TT	CC	1946771616
SNP_P4_30147_13041075	NC_021162.1	Ca_kabuli_chr03	13041075	CC	AA	1946771618
SNP_P4_30148_13041122	NC_021162.1	Ca_kabuli_chr03	13041122	GG	AA	1946771620
SNP_P4_30149_13041422	NC_021162.1	Ca_kabuli_chr03	13041422	CC	TT	1946771622
SNP_P4_30150_13041468	NC_021162.1	Ca_kabuli_chr03	13041468	CC	TT	1946771625
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SNP_P4_30152_13041578	NC_021162.1	Ca_kabuli_chr03	13041578	AA	GG	1946771629
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SNP_P4_30154_13041676	NC_021162.1	Ca_kabuli_chr03	13041676	TT	CC	1946771633
SNP_P4_30155_13041685	NC_021162.1	Ca_kabuli_chr03	13041685	AA	CC	1946771635
SNP_P4_30156_13042121	NC_021162.1	Ca_kabuli_chr03	13042121	AA	TT	1946771637
SNP_P4_30157_13042123	NC_021162.1	Ca_kabuli_chr03	13042123	GG	AA	1946771639
SNP_P4_30158_13047747	NC_021162.1	Ca_kabuli_chr03	13047747	GG	AA	1946771641
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SNP_P4_30163_13070122	NC_021162.1	Ca_kabuli_chr03	13070122	GG	TT	1946771652
SNP_P4_30164_13094174	NC_021162.1	Ca_kabuli_chr03	13094174	GG	AA	1946771654
SNP_P4_30165_13096562	NC_021162.1	Ca_kabuli_chr03	13096562	TT	CC	1946771656
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SNP_P4_30167_13096590	NC_021162.1	Ca_kabuli_chr03	13096590	AA	CC	1946771660
SNP_P4_30168_13096629	NC_021162.1	Ca_kabuli_chr03	13096629	TT	GG	1946771662
SNP_P4_30169_13096654	NC_021162.1	Ca_kabuli_chr03	13096654	TT	CC	1946771664
SNP_P4_30170_13096687	NC_021162.1	Ca_kabuli_chr03	13096687	AA	GG	1946771666
SNP_P4_30171_13096689	NC_021162.1	Ca_kabuli_chr03	13096689	CC	TT	1946771668
SNP_P4_30172_13096751	NC_021162.1	Ca_kabuli_chr03	13096751	TT	AA	1946771670
SNP_P4_30173_13096756	NC_021162.1	Ca_kabuli_chr03	13096756	CC	AA	1946771672
SNP_P4_30174_13096763	NC_021162.1	Ca_kabuli_chr03	13096763	AA	CC	1946771674
SNP_P4_30175_13096771	NC_021162.1	Ca_kabuli_chr03	13096771	AA	GG	1946771676

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_30178_13096814	NC_021162.1	Ca_kabuli_chr03	13096814	GG	TT	1946771684
SNP_P4_30179_13096869	NC_021162.1	Ca_kabuli_chr03	13096869	TT	CC	1946771686
SNP_P4_30180_13096884	NC_021162.1	Ca_kabuli_chr03	13096884	TT	CC	1946771689
SNP_P4_30183_13097106	NC_021162.1	Ca_kabuli_chr03	13097106	TT	CC	1946771692
SNP_P4_30184_13097110	NC_021162.1	Ca_kabuli_chr03	13097110	CC	TT	1946771694
SNP_P4_30185_13097189	NC_021162.1	Ca_kabuli_chr03	13097189	AA	GG	1946771696
SNP_P4_30186_13104973	NC_021162.1	Ca_kabuli_chr03	13104973	CC	TT	1946771698
SNP_P4_30187_13104977	NC_021162.1	Ca_kabuli_chr03	13104977	TT	CC	1946771700
SNP_P4_30188_13107617	NC_021162.1	Ca_kabuli_chr03	13107617	AA	GG	1946771702
SNP_P4_30189_13129295	NC_021162.1	Ca_kabuli_chr03	13129295	AA	TT	1946771704
SNP_P4_30190_13135619	NC_021162.1	Ca_kabuli_chr03	13135619	AA	CC	1946771706
SNP_P4_30191_13135626	NC_021162.1	Ca_kabuli_chr03	13135626	TT	AA	1946771708
SNP_P4_30192_13146137	NC_021162.1	Ca_kabuli_chr03	13146137	GG	CC	1946771710
SNP_P4_30193_13146142	NC_021162.1	Ca_kabuli_chr03	13146142	AA	GG	1946771712
SNP_P4_30194_13151635	NC_021162.1	Ca_kabuli_chr03	13151635	CC	TT	1946771714
SNP_P4_30196_13172358	NC_021162.1	Ca_kabuli_chr03	13172358	CC	GG	1946771716
SNP_P4_30197_13172370	NC_021162.1	Ca_kabuli_chr03	13172370	GG	CC	1946771718
SNP_P4_30198_13180035	NC_021162.1	Ca_kabuli_chr03	13180035	CC	TT	1946771720
SNP_P4_30199_13180052	NC_021162.1	Ca_kabuli_chr03	13180052	TT	CC	1946771723
SNP_P4_30200_13184587	NC_021162.1	Ca_kabuli_chr03	13184587	CC	AA	1946771725
SNP_P4_30201_13185101	NC_021162.1	Ca_kabuli_chr03	13185101	TT	CC	1946771727
SNP_P4_30202_13185138	NC_021162.1	Ca_kabuli_chr03	13185138	GG	TT	1946771729
SNP_P4_30203_13185163	NC_021162.1	Ca_kabuli_chr03	13185163	GG	CC	1946771731
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SNP_P4_30205_13185210	NC_021162.1	Ca_kabuli_chr03	13185210	GG	AA	1946771735
SNP_P4_30206_13185297	NC_021162.1	Ca_kabuli_chr03	13185297	CC	AA	1946771737
SNP_P4_30207_13185329	NC_021162.1	Ca_kabuli_chr03	13185329	GG	AA	1946771739
SNP_P4_30208_13185385	NC_021162.1	Ca_kabuli_chr03	13185385	GG	TT	1946771741
SNP_P4_30210_13185472	NC_021162.1	Ca_kabuli_chr03	13185472	AA	CC	1946771744
SNP_P4_30211_13185540	NC_021162.1	Ca_kabuli_chr03	13185540	GG	TT	1946771746
SNP_P4_30212_13185558	NC_021162.1	Ca_kabuli_chr03	13185558	GG	CC	1946771748
SNP_P4_30213_13185559	NC_021162.1	Ca_kabuli_chr03	13185559	GG	AA	1946771750
SNP_P4_30214_13185579	NC_021162.1	Ca_kabuli_chr03	13185579	TT	CC	1946771752
SNP_P4_30215_13185767	NC_021162.1	Ca_kabuli_chr03	13185767	CC	GG	1946771754
SNP_P4_30216_13201081	NC_021162.1	Ca_kabuli_chr03	13201081	CC	TT	1946771756
SNP_P4_30217_13201214	NC_021162.1	Ca_kabuli_chr03	13201214	TT	CC	1946771758
SNP_P4_30219_13237061	NC_021162.1	Ca_kabuli_chr03	13237061	AA	GG	1946771760
SNP_P4_30220_13237065	NC_021162.1	Ca_kabuli_chr03	13237065	TT	GG	1946771762
SNP_P4_30221_13238621	NC_021162.1	Ca_kabuli_chr03	13238621	AA	CC	1946771764
SNP_P4_30222_13244178	NC_021162.1	Ca_kabuli_chr03	13244178	GG	AA	1946771766

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_30225_13264432	NC_021162.1	Ca_kabuli_chr03	13264432	AA	TT	1946771773
SNP_P4_30226_13285008	NC_021162.1	Ca_kabuli_chr03	13285008	TT	GG	1946771775
SNP_P4_30227_13285010	NC_021162.1	Ca_kabuli_chr03	13285010	CC	GG	1946771777
SNP_P4_30228_13285199	NC_021162.1	Ca_kabuli_chr03	13285199	CC	TT	1946771779
SNP_P4_30229_13285211	NC_021162.1	Ca_kabuli_chr03	13285211	AA	GG	1946771781
SNP_P4_30230_13291899	NC_021162.1	Ca_kabuli_chr03	13291899	AA	GG	1946771783
SNP_P4_30231_13291932	NC_021162.1	Ca_kabuli_chr03	13291932	AA	GG	1946771785
SNP_P4_30232_13317234	NC_021162.1	Ca_kabuli_chr03	13317234	CC	TT	1946771788
SNP_P4_30233_13335659	NC_021162.1	Ca_kabuli_chr03	13335659	TT	GG	1946771790
SNP_P4_30234_13335669	NC_021162.1	Ca_kabuli_chr03	13335669	CC	TT	1946771792
SNP_P4_30235_13335710	NC_021162.1	Ca_kabuli_chr03	13335710	TT	CC	1946771794
SNP_P4_30236_13335885	NC_021162.1	Ca_kabuli_chr03	13335885	AA	GG	1946771796
SNP_P4_30237_13335892	NC_021162.1	Ca_kabuli_chr03	13335892	TT	CC	1946771798
SNP_P4_30239_13363088	NC_021162.1	Ca_kabuli_chr03	13363088	CC	TT	1946771800
SNP_P4_30240_13363223	NC_021162.1	Ca_kabuli_chr03	13363223	TT	CC	1946771802
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SNP_P4_30246_13364372	NC_021162.1	Ca_kabuli_chr03	13364372	GG	AA	1946771815
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SNP_P4_30255_13412911	NC_021162.1	Ca_kabuli_chr03	13412911	CC	AA	1946771831
SNP_P4_30257_13417951	NC_021162.1	Ca_kabuli_chr03	13417951	AA	CC	1946771833
SNP_P4_30258_13450999	NC_021162.1	Ca_kabuli_chr03	13450999	AA	CC	1946771835
SNP_P4_30259_13451009	NC_021162.1	Ca_kabuli_chr03	13451009	GG	TT	1946771837
SNP_P4_30260_13451073	NC_021162.1	Ca_kabuli_chr03	13451073	AA	TT	1946771839
SNP_P4_30261_13451074	NC_021162.1	Ca_kabuli_chr03	13451074	AA	CC	1946771841
SNP_P4_30262_13451076	NC_021162.1	Ca_kabuli_chr03	13451076	AA	GG	1946771843
SNP_P4_30263_13451077	NC_021162.1	Ca_kabuli_chr03	13451077	TT	CC	1946771845
SNP_P4_30264_13451093	NC_021162.1	Ca_kabuli_chr03	13451093	TT	CC	1946771847
SNP_P4_30265_13451106	NC_021162.1	Ca_kabuli_chr03	13451106	AA	TT	1946771849
SNP_P4_30266_13465239	NC_021162.1	Ca_kabuli_chr03	13465239	TT	CC	1946771852
SNP_P4_30267_13465281	NC_021162.1	Ca_kabuli_chr03	13465281	GG	TT	1946771854

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_30270_13480016	NC_021162.1	Ca_kabuli_chr03	13480016	TT	CC	1946771860
SNP_P4_30271_13487957	NC_021162.1	Ca_kabuli_chr03	13487957	AA	GG	1946771862
SNP_P4_30272_13488023	NC_021162.1	Ca_kabuli_chr03	13488023	GG	AA	1946771864
SNP_P4_30273_13488155	NC_021162.1	Ca_kabuli_chr03	13488155	CC	TT	1946771866
SNP_P4_30274_13488414	NC_021162.1	Ca_kabuli_chr03	13488414	AA	GG	1946771868
SNP_P4_30275_13488476	NC_021162.1	Ca_kabuli_chr03	13488476	TT	CC	1946771870
SNP_P4_30276_13488517	NC_021162.1	Ca_kabuli_chr03	13488517	AA	TT	1946771872
SNP_P4_30277_13488518	NC_021162.1	Ca_kabuli_chr03	13488518	TT	AA	1946771874
SNP_P4_30278_13488549	NC_021162.1	Ca_kabuli_chr03	13488549	CC	TT	1946771876
SNP_P4_30279_13520929	NC_021162.1	Ca_kabuli_chr03	13520929	GG	AA	1946771878
SNP_P4_30280_13521791	NC_021162.1	Ca_kabuli_chr03	13521791	AA	TT	1946771881
SNP_P4_30281_13521792	NC_021162.1	Ca_kabuli_chr03	13521792	AA	TT	1946771883
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SNP_P4_30283_13556723	NC_021162.1	Ca_kabuli_chr03	13556723	TT	AA	1946771887
SNP_P4_30284_13596984	NC_021162.1	Ca_kabuli_chr03	13596984	TT	AA	1946771889
SNP_P4_30285_13597050	NC_021162.1	Ca_kabuli_chr03	13597050	AA	GG	1946771891
SNP_P4_30286_13612460	NC_021162.1	Ca_kabuli_chr03	13612460	AA	GG	1946771893
SNP_P4_30287_13612461	NC_021162.1	Ca_kabuli_chr03	13612461	TT	GG	1946771895
SNP_P4_30288_13642822	NC_021162.1	Ca_kabuli_chr03	13642822	AA	GG	1946771898
SNP_P4_30289_13645911	NC_021162.1	Ca_kabuli_chr03	13645911	CC	TT	1946771900
SNP_P4_30293_13733563	NC_021162.1	Ca_kabuli_chr03	13733563	TT	CC	1946771902
SNP_P4_30294_13752051	NC_021162.1	Ca_kabuli_chr03	13752051	AA	CC	1946771904
SNP_P4_30295_13787486	NC_021162.1	Ca_kabuli_chr03	13787486	GG	AA	1946771906
SNP_P4_30296_13788607	NC_021162.1	Ca_kabuli_chr03	13788607	AA	GG	1946771908
SNP_P4_30298_13829589	NC_021162.1	Ca_kabuli_chr03	13829589	AA	TT	1946771910
SNP_P4_30299_13840565	NC_021162.1	Ca_kabuli_chr03	13840565	CC	AA	1946771912
SNP_P4_30300_13840569	NC_021162.1	Ca_kabuli_chr03	13840569	CC	TT	1946771914
SNP_P4_30301_13844195	NC_021162.1	Ca_kabuli_chr03	13844195	AA	GG	1946771916
SNP_P4_30302_13861007	NC_021162.1	Ca_kabuli_chr03	13861007	TT	CC	1946771918
SNP_P4_30303_13864703	NC_021162.1	Ca_kabuli_chr03	13864703	CC	TT	1946771920
SNP_P4_30304_13868409	NC_021162.1	Ca_kabuli_chr03	13868409	GG	AA	1946771923
SNP_P4_30305_13868412	NC_021162.1	Ca_kabuli_chr03	13868412	CC	TT	1946771925
SNP_P4_30306_13868445	NC_021162.1	Ca_kabuli_chr03	13868445	AA	GG	1946771927
SNP_P4_30307_13868452	NC_021162.1	Ca_kabuli_chr03	13868452	TT	CC	1946771929
SNP_P4_30308_13868478	NC_021162.1	Ca_kabuli_chr03	13868478	AA	GG	1946771931
SNP_P4_30309_13868536	NC_021162.1	Ca_kabuli_chr03	13868536	AA	GG	1946771933
SNP_P4_30310_13868703	NC_021162.1	Ca_kabuli_chr03	13868703	AA	CC	1946771935
SNP_P4_30311_13868720	NC_021162.1	Ca_kabuli_chr03	13868720	GG	AA	1946771937
SNP_P4_30312_13868750	NC_021162.1	Ca_kabuli_chr03	13868750	AA	GG	1946771939
SNP_P4_30314_13868803	NC_021162.1	Ca_kabuli_chr03	13868803	TT	GG	1946771941

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_30316_13868818	NC_021162.1	Ca_kabuli_chr03	13868818	TT	GG	1946771946
SNP_P4_30317_13868820	NC_021162.1	Ca_kabuli_chr03	13868820	CC	TT	1946771948
SNP_P4_30318_13868879	NC_021162.1	Ca_kabuli_chr03	13868879	CC	TT	1946771950
SNP_P4_30319_13868880	NC_021162.1	Ca_kabuli_chr03	13868880	TT	CC	1946771952
SNP_P4_30320_13868881	NC_021162.1	Ca_kabuli_chr03	13868881	TT	GG	1946771954
SNP_P4_30321_13868886	NC_021162.1	Ca_kabuli_chr03	13868886	AA	GG	1946771956
SNP_P4_30322_13868894	NC_021162.1	Ca_kabuli_chr03	13868894	TT	CC	1946771958
SNP_P4_30323_13868900	NC_021162.1	Ca_kabuli_chr03	13868900	GG	TT	1946771960
SNP_P4_30324_13878265	NC_021162.1	Ca_kabuli_chr03	13878265	TT	CC	1946771962
SNP_P4_30325_13878298	NC_021162.1	Ca_kabuli_chr03	13878298	GG	TT	1946771965
SNP_P4_30326_13886105	NC_021162.1	Ca_kabuli_chr03	13886105	CC	TT	1946771967
SNP_P4_30328_13917997	NC_021162.1	Ca_kabuli_chr03	13917997	GG	TT	1946771969
SNP_P4_30329_13934996	NC_021162.1	Ca_kabuli_chr03	13934996	AA	GG	1946771971
SNP_P4_30330_13935043	NC_021162.1	Ca_kabuli_chr03	13935043	GG	TT	1946771973
SNP_P4_30331_13935464	NC_021162.1	Ca_kabuli_chr03	13935464	TT	CC	1946771975
SNP_P4_30332_13935523	NC_021162.1	Ca_kabuli_chr03	13935523	GG	TT	1946771977
SNP_P4_30334_13935971	NC_021162.1	Ca_kabuli_chr03	13935971	CC	AA	1946771979
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SNP_P4_30336_13948005	NC_021162.1	Ca_kabuli_chr03	13948005	AA	GG	1946771984
SNP_P4_30337_13955788	NC_021162.1	Ca_kabuli_chr03	13955788	CC	TT	1946771986
SNP_P4_30338_13955807	NC_021162.1	Ca_kabuli_chr03	13955807	TT	CC	1946771988
SNP_P4_30339_13956192	NC_021162.1	Ca_kabuli_chr03	13956192	TT	AA	1946771990
SNP_P4_30340_13960003	NC_021162.1	Ca_kabuli_chr03	13960003	TT	GG	1946771992
SNP_P4_30341_13992297	NC_021162.1	Ca_kabuli_chr03	13992297	TT	CC	1946771995
SNP_P4_30342_13993310	NC_021162.1	Ca_kabuli_chr03	13993310	CC	AA	1946771997
SNP_P4_30345_14018318	NC_021162.1	Ca_kabuli_chr03	14018318	AA	GG	1946771999
SNP_P4_30348_14102341	NC_021162.1	Ca_kabuli_chr03	14102341	CC	AA	1946772001
SNP_P4_30350_14142566	NC_021162.1	Ca_kabuli_chr03	14142566	AA	CC	1946772003
SNP_P4_30352_14227835	NC_021162.1	Ca_kabuli_chr03	14227835	TT	CC	1946772005
SNP_P4_30353_14227841	NC_021162.1	Ca_kabuli_chr03	14227841	GG	AA	1946772007
SNP_P4_30354_14227848	NC_021162.1	Ca_kabuli_chr03	14227848	AA	GG	1946772009
SNP_P4_30355_14227854	NC_021162.1	Ca_kabuli_chr03	14227854	AA	CC	1946772012
SNP_P4_30356_14227881	NC_021162.1	Ca_kabuli_chr03	14227881	AA	GG	1946772014
SNP_P4_30358_14242193	NC_021162.1	Ca_kabuli_chr03	14242193	AA	TT	1946772016
SNP_P4_30359_14242194	NC_021162.1	Ca_kabuli_chr03	14242194	TT	CC	1946772018
SNP_P4_30360_14242214	NC_021162.1	Ca_kabuli_chr03	14242214	TT	GG	1946772020
SNP_P4_30361_14242239	NC_021162.1	Ca_kabuli_chr03	14242239	GG	TT	1946772022
SNP_P4_30362_14243761	NC_021162.1	Ca_kabuli_chr03	14243761	TT	CC	1946772024
SNP_P4_30363_14243770	NC_021162.1	Ca_kabuli_chr03	14243770	CC	TT	1946772026
SNP_P4_30364_14243772	NC_021162.1	Ca_kabuli_chr03	14243772	AA	GG	1946772028
SNP_P4_30365_14245585	NC_021162.1	Ca_kabuli_chr03	14245585	AA	GG	1946772030

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_30367_14246983	NC_021162.1	Ca_kabuli_chr03	14246983	TT	GG	1946772034
SNP_P4_30368_14247231	NC_021162.1	Ca_kabuli_chr03	14247231	TT	CC	1946772036
SNP_P4_30369_14247491	NC_021162.1	Ca_kabuli_chr03	14247491	GG	AA	1946772038
SNP_P4_30370_14247724	NC_021162.1	Ca_kabuli_chr03	14247724	CC	TT	1946772040
SNP_P4_30371_14247853	NC_021162.1	Ca_kabuli_chr03	14247853	GG	AA	1946772042
SNP_P4_30372_14247953	NC_021162.1	Ca_kabuli_chr03	14247953	CC	TT	1946772045
SNP_P4_30373_14248011	NC_021162.1	Ca_kabuli_chr03	14248011	GG	TT	1946772047
SNP_P4_30374_14248014	NC_021162.1	Ca_kabuli_chr03	14248014	AA	CC	1946772049
SNP_P4_30375_14248095	NC_021162.1	Ca_kabuli_chr03	14248095	TT	GG	1946772051
SNP_P4_30376_14248098	NC_021162.1	Ca_kabuli_chr03	14248098	TT	AA	1946772053
SNP_P4_30377_14248157	NC_021162.1	Ca_kabuli_chr03	14248157	AA	GG	1946772055
SNP_P4_30378_14248305	NC_021162.1	Ca_kabuli_chr03	14248305	AA	GG	1946772057
SNP_P4_30379_14248309	NC_021162.1	Ca_kabuli_chr03	14248309	TT	CC	1946772059
SNP_P4_30380_14248339	NC_021162.1	Ca_kabuli_chr03	14248339	TT	CC	1946772061
SNP_P4_30381_14248404	NC_021162.1	Ca_kabuli_chr03	14248404	TT	AA	1946772063
SNP_P4_30382_14248410	NC_021162.1	Ca_kabuli_chr03	14248410	TT	CC	1946772065
SNP_P4_30383_14248435	NC_021162.1	Ca_kabuli_chr03	14248435	TT	AA	1946772067
SNP_P4_30384_14248446	NC_021162.1	Ca_kabuli_chr03	14248446	CC	AA	1946772069
SNP_P4_30385_14248576	NC_021162.1	Ca_kabuli_chr03	14248576	TT	CC	1946772071
SNP_P4_30386_14248827	NC_021162.1	Ca_kabuli_chr03	14248827	AA	GG	1946772073
SNP_P4_30387_14248863	NC_021162.1	Ca_kabuli_chr03	14248863	CC	TT	1946772075
SNP_P4_30388_14248933	NC_021162.1	Ca_kabuli_chr03	14248933	GG	AA	1946772077
SNP_P4_30389_14249125	NC_021162.1	Ca_kabuli_chr03	14249125	TT	CC	1946772079
SNP_P4_30390_14249133	NC_021162.1	Ca_kabuli_chr03	14249133	AA	GG	1946772081
SNP_P4_30391_14249147	NC_021162.1	Ca_kabuli_chr03	14249147	AA	GG	1946772083
SNP_P4_30392_14249148	NC_021162.1	Ca_kabuli_chr03	14249148	AA	TT	1946772086
SNP_P4_30393_14249156	NC_021162.1	Ca_kabuli_chr03	14249156	CC	TT	1946772088
SNP_P4_30394_14249242	NC_021162.1	Ca_kabuli_chr03	14249242	TT	AA	1946772090
SNP_P4_30395_14249248	NC_021162.1	Ca_kabuli_chr03	14249248	AA	GG	1946772092
SNP_P4_30396_14249439	NC_021162.1	Ca_kabuli_chr03	14249439	CC	TT	1946772094
SNP_P4_30397_14249497	NC_021162.1	Ca_kabuli_chr03	14249497	CC	TT	1946772096
SNP_P4_30398_14249508	NC_021162.1	Ca_kabuli_chr03	14249508	GG	CC	1946772098
SNP_P4_30402_14448814	NC_021162.1	Ca_kabuli_chr03	14448814	CC	TT	1946772100
SNP_P4_30403_14453285	NC_021162.1	Ca_kabuli_chr03	14453285	AA	GG	1946772102
SNP_P4_30404_14473924	NC_021162.1	Ca_kabuli_chr03	14473924	TT	CC	1946772105
SNP_P4_30405_14488182	NC_021162.1	Ca_kabuli_chr03	14488182	AA	CC	1946772107
SNP_P4_30406_14488184	NC_021162.1	Ca_kabuli_chr03	14488184	TT	CC	1946772109
SNP_P4_30407_14488192	NC_021162.1	Ca_kabuli_chr03	14488192	TT	CC	1946772111
SNP_P4_30408_14495075	NC_021162.1	Ca_kabuli_chr03	14495075	CC	TT	1946772113
SNP_P4_30409_14495131	NC_021162.1	Ca_kabuli_chr03	14495131	AA	GG	1946772115
SNP_P4_30410_14495154	NC_021162.1	Ca_kabuli_chr03	14495154	CC	TT	1946772118

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_30412_14495205	NC_021162.1	Ca_kabuli_chr03	14495205	GG	AA	1946772122
SNP_P4_30413_14495259	NC_021162.1	Ca_kabuli_chr03	14495259	GG	CC	1946772124
SNP_P4_30414_14495264	NC_021162.1	Ca_kabuli_chr03	14495264	TT	CC	1946772127
SNP_P4_30415_14495298	NC_021162.1	Ca_kabuli_chr03	14495298	TT	CC	1946772129
SNP_P4_30416_14495412	NC_021162.1	Ca_kabuli_chr03	14495412	CC	AA	1946772131
SNP_P4_30417_14495459	NC_021162.1	Ca_kabuli_chr03	14495459	TT	CC	1946772133
SNP_P4_30418_14495501	NC_021162.1	Ca_kabuli_chr03	14495501	TT	CC	1946772135
SNP_P4_30419_14495663	NC_021162.1	Ca_kabuli_chr03	14495663	TT	CC	1946772138
SNP_P4_30420_14495667	NC_021162.1	Ca_kabuli_chr03	14495667	CC	GG	1946772140
SNP_P4_30421_14506072	NC_021162.1	Ca_kabuli_chr03	14506072	CC	TT	1946772142
SNP_P4_30422_14524618	NC_021162.1	Ca_kabuli_chr03	14524618	GG	CC	1946772144
SNP_P4_30423_14540732	NC_021162.1	Ca_kabuli_chr03	14540732	GG	AA	1946772146
SNP_P4_30424_14543331	NC_021162.1	Ca_kabuli_chr03	14543331	TT	CC	1946772148
SNP_P4_30425_14543361	NC_021162.1	Ca_kabuli_chr03	14543361	TT	CC	1946772150
SNP_P4_30426_14543362	NC_021162.1	Ca_kabuli_chr03	14543362	CC	TT	1946772153
SNP_P4_30427_14543365	NC_021162.1	Ca_kabuli_chr03	14543365	CC	GG	1946772155
SNP_P4_30428_14543534	NC_021162.1	Ca_kabuli_chr03	14543534	TT	CC	1946772157
SNP_P4_30429_14554462	NC_021162.1	Ca_kabuli_chr03	14554462	AA	GG	1946772159
SNP_P4_30430_14556043	NC_021162.1	Ca_kabuli_chr03	14556043	CC	TT	1946772161
SNP_P4_30431_14556073	NC_021162.1	Ca_kabuli_chr03	14556073	GG	AA	1946772163
SNP_P4_30432_14556078	NC_021162.1	Ca_kabuli_chr03	14556078	CC	TT	1946772165
SNP_P4_30433_14556386	NC_021162.1	Ca_kabuli_chr03	14556386	AA	GG	1946772168
SNP_P4_30434_14556413	NC_021162.1	Ca_kabuli_chr03	14556413	AA	GG	1946772170
SNP_P4_30435_14556648	NC_021162.1	Ca_kabuli_chr03	14556648	GG	TT	1946772172
SNP_P4_30436_14573506	NC_021162.1	Ca_kabuli_chr03	14573506	CC	TT	1946772174
SNP_P4_30438_14575322	NC_021162.1	Ca_kabuli_chr03	14575322	AA	GG	1946772176
SNP_P4_30439_14575325	NC_021162.1	Ca_kabuli_chr03	14575325	GG	AA	1946772178
SNP_P4_30440_14575390	NC_021162.1	Ca_kabuli_chr03	14575390	AA	GG	1946772180
SNP_P4_30441_14591552	NC_021162.1	Ca_kabuli_chr03	14591552	TT	CC	1946772182
SNP_P4_30442_14602795	NC_021162.1	Ca_kabuli_chr03	14602795	TT	GG	1946772184
SNP_P4_30445_14653365	NC_021162.1	Ca_kabuli_chr03	14653365	AA	GG	1946772186
SNP_P4_30446_14653384	NC_021162.1	Ca_kabuli_chr03	14653384	CC	GG	1946772189
SNP_P4_30447_14679933	NC_021162.1	Ca_kabuli_chr03	14679933	GG	TT	1946772191
SNP_P4_30449_14687830	NC_021162.1	Ca_kabuli_chr03	14687830	CC	AA	1946772193
SNP_P4_30450_14696036	NC_021162.1	Ca_kabuli_chr03	14696036	TT	CC	1946772195
SNP_P4_30451_14696854	NC_021162.1	Ca_kabuli_chr03	14696854	GG	AA	1946772197
SNP_P4_30452_14696998	NC_021162.1	Ca_kabuli_chr03	14696998	AA	GG	1946772199
SNP_P4_30453_14699581	NC_021162.1	Ca_kabuli_chr03	14699581	CC	AA	1946772201
SNP_P4_30454_14699583	NC_021162.1	Ca_kabuli_chr03	14699583	AA	GG	1946772203
SNP_P4_30455_14699590	NC_021162.1	Ca_kabuli_chr03	14699590	TT	CC	1946772205
SNP_P4_30457_14703949	NC_021162.1	Ca_kabuli_chr03	14703949	CC	AA	1946772207

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_30460_14706603	NC_021162.1	Ca_kabuli_chr03	14706603	AA	CC	1946772213
SNP_P4_30461_14711343	NC_021162.1	Ca_kabuli_chr03	14711343	CC	AA	1946772215
SNP_P4_30462_14751358	NC_021162.1	Ca_kabuli_chr03	14751358	TT	CC	1946772217
SNP_P4_30463_14751362	NC_021162.1	Ca_kabuli_chr03	14751362	GG	TT	1946772219
SNP_P4_30464_14770761	NC_021162.1	Ca_kabuli_chr03	14770761	TT	CC	1946772221
SNP_P4_30465_14780176	NC_021162.1	Ca_kabuli_chr03	14780176	CC	TT	1946772223
SNP_P4_30466_14780247	NC_021162.1	Ca_kabuli_chr03	14780247	AA	GG	1946772226
SNP_P4_30467_14780282	NC_021162.1	Ca_kabuli_chr03	14780282	AA	GG	1946772228
SNP_P4_30468_14790349	NC_021162.1	Ca_kabuli_chr03	14790349	CC	AA	1946772230
SNP_P4_30469_14797148	NC_021162.1	Ca_kabuli_chr03	14797148	AA	GG	1946772232
SNP_P4_30470_14801632	NC_021162.1	Ca_kabuli_chr03	14801632	TT	CC	1946772234
SNP_P4_30471_14805350	NC_021162.1	Ca_kabuli_chr03	14805350	CC	TT	1946772236
SNP_P4_30472_14808618	NC_021162.1	Ca_kabuli_chr03	14808618	CC	TT	1946772238
SNP_P4_30473_14810434	NC_021162.1	Ca_kabuli_chr03	14810434	CC	TT	1946772240
SNP_P4_30474_14811822	NC_021162.1	Ca_kabuli_chr03	14811822	GG	AA	1946772242
SNP_P4_30475_14814676	NC_021162.1	Ca_kabuli_chr03	14814676	CC	TT	1946772244
SNP_P4_30476_14815849	NC_021162.1	Ca_kabuli_chr03	14815849	GG	TT	1946772246
SNP_P4_30477_14815929	NC_021162.1	Ca_kabuli_chr03	14815929	TT	CC	1946772248
SNP_P4_30478_14815947	NC_021162.1	Ca_kabuli_chr03	14815947	GG	AA	1946772250
SNP_P4_30479_14816120	NC_021162.1	Ca_kabuli_chr03	14816120	AA	TT	1946772253
SNP_P4_30480_14816180	NC_021162.1	Ca_kabuli_chr03	14816180	TT	CC	1946772255
SNP_P4_30481_14816185	NC_021162.1	Ca_kabuli_chr03	14816185	AA	GG	1946772257
SNP_P4_30482_14816216	NC_021162.1	Ca_kabuli_chr03	14816216	GG	AA	1946772259
SNP_P4_30483_14835338	NC_021162.1	Ca_kabuli_chr03	14835338	AA	CC	1946772261
SNP_P4_30485_14843257	NC_021162.1	Ca_kabuli_chr03	14843257	AA	GG	1946772263
SNP_P4_30487_14845796	NC_021162.1	Ca_kabuli_chr03	14845796	GG	AA	1946772265
SNP_P4_30488_14848183	NC_021162.1	Ca_kabuli_chr03	14848183	GG	AA	1946772267
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SNP_P4_30490_14848666	NC_021162.1	Ca_kabuli_chr03	14848666	CC	GG	1946772271
SNP_P4_30491_14848673	NC_021162.1	Ca_kabuli_chr03	14848673	GG	TT	1946772273
SNP_P4_30492_14848682	NC_021162.1	Ca_kabuli_chr03	14848682	CC	GG	1946772276
SNP_P4_30493_14854126	NC_021162.1	Ca_kabuli_chr03	14854126	AA	GG	1946772278
SNP_P4_30494_14854204	NC_021162.1	Ca_kabuli_chr03	14854204	CC	GG	1946772280
SNP_P4_30495_14858469	NC_021162.1	Ca_kabuli_chr03	14858469	CC	TT	1946772282
SNP_P4_30496_14858487	NC_021162.1	Ca_kabuli_chr03	14858487	AA	TT	1946772284
SNP_P4_30497_14858491	NC_021162.1	Ca_kabuli_chr03	14858491	TT	GG	1946772286
SNP_P4_30498_14858495	NC_021162.1	Ca_kabuli_chr03	14858495	AA	GG	1946772288
SNP_P4_30499_14858499	NC_021162.1	Ca_kabuli_chr03	14858499	AA	GG	1946772290
SNP_P4_30500_14858766	NC_021162.1	Ca_kabuli_chr03	14858766	CC	AA	1946772292
SNP_P4_30501_14859923	NC_021162.1	Ca_kabuli_chr03	14859923	AA	GG	1946772294

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_30502_14859955	NC_021162.1	Ca_kabuli_chr03	14859955	GG	AA	1946772297
SNP_P4_30503_14860007	NC_021162.1	Ca_kabuli_chr03	14860007	CC	TT	1946772299
SNP_P4_30504_14860680	NC_021162.1	Ca_kabuli_chr03	14860680	AA	GG	1946772301
SNP_P4_30505_14860683	NC_021162.1	Ca_kabuli_chr03	14860683	TT	CC	1946772303
SNP_P4_30506_14860684	NC_021162.1	Ca_kabuli_chr03	14860684	CC	AA	1946772305
SNP_P4_30507_14860685	NC_021162.1	Ca_kabuli_chr03	14860685	AA	TT	1946772307
SNP_P4_30508_14864099	NC_021162.1	Ca_kabuli_chr03	14864099	TT	GG	1946772310
SNP_P4_30509_14867177	NC_021162.1	Ca_kabuli_chr03	14867177	CC	GG	1946772312
SNP_P4_30510_14867226	NC_021162.1	Ca_kabuli_chr03	14867226	AA	CC	1946772314
SNP_P4_30511_14867508	NC_021162.1	Ca_kabuli_chr03	14867508	TT	GG	1946772316
SNP_P4_30512_14867608	NC_021162.1	Ca_kabuli_chr03	14867608	CC	GG	1946772318
SNP_P4_30513_14867621	NC_021162.1	Ca_kabuli_chr03	14867621	AA	GG	1946772321
SNP_P4_30514_14867716	NC_021162.1	Ca_kabuli_chr03	14867716	GG	AA	1946772323
SNP_P4_30515_14867718	NC_021162.1	Ca_kabuli_chr03	14867718	AA	GG	1946772325
SNP_P4_30516_14867748	NC_021162.1	Ca_kabuli_chr03	14867748	TT	GG	1946772327
SNP_P4_30517_14867789	NC_021162.1	Ca_kabuli_chr03	14867789	AA	GG	1946772329
SNP_P4_30518_14868671	NC_021162.1	Ca_kabuli_chr03	14868671	TT	CC	1946772331
SNP_P4_30519_14868759	NC_021162.1	Ca_kabuli_chr03	14868759	CC	TT	1946772333
SNP_P4_30520_14868767	NC_021162.1	Ca_kabuli_chr03	14868767	CC	AA	1946772335
SNP_P4_30521_14868769	NC_021162.1	Ca_kabuli_chr03	14868769	TT	GG	1946772337
SNP_P4_30522_14868840	NC_021162.1	Ca_kabuli_chr03	14868840	AA	GG	1946772339
SNP_P4_30523_14868861	NC_021162.1	Ca_kabuli_chr03	14868861	GG	TT	1946772341
SNP_P4_30524_14868871	NC_021162.1	Ca_kabuli_chr03	14868871	AA	GG	1946772343
SNP_P4_30525_14868873	NC_021162.1	Ca_kabuli_chr03	14868873	CC	TT	1946772345
SNP_P4_30526_14868874	NC_021162.1	Ca_kabuli_chr03	14868874	GG	CC	1946772347
SNP_P4_30527_14868877	NC_021162.1	Ca_kabuli_chr03	14868877	TT	CC	1946772349
SNP_P4_30528_14868901	NC_021162.1	Ca_kabuli_chr03	14868901	CC	AA	1946772351
SNP_P4_30529_14868980	NC_021162.1	Ca_kabuli_chr03	14868980	TT	CC	1946772353
SNP_P4_30530_14869051	NC_021162.1	Ca_kabuli_chr03	14869051	AA	TT	1946772355
SNP_P4_30531_14869067	NC_021162.1	Ca_kabuli_chr03	14869067	GG	AA	1946772357
SNP_P4_30532_14869078	NC_021162.1	Ca_kabuli_chr03	14869078	GG	AA	1946772359
SNP_P4_30533_14872076	NC_021162.1	Ca_kabuli_chr03	14872076	GG	AA	1946772361
SNP_P4_30534_14872084	NC_021162.1	Ca_kabuli_chr03	14872084	TT	AA	1946772363
SNP_P4_30535_14872349	NC_021162.1	Ca_kabuli_chr03	14872349	GG	CC	1946772365
SNP_P4_30537_14878396	NC_021162.1	Ca_kabuli_chr03	14878396	AA	TT	1946772367
SNP_P4_30538_14878402	NC_021162.1	Ca_kabuli_chr03	14878402	GG	AA	1946772369
SNP_P4_30539_14878598	NC_021162.1	Ca_kabuli_chr03	14878598	CC	TT	1946772371
SNP_P4_30540_14878768	NC_021162.1	Ca_kabuli_chr03	14878768	CC	TT	1946772373
SNP_P4_30541_14878909	NC_021162.1	Ca_kabuli_chr03	14878909	GG	TT	1946772375
SNP_P4_30542_14879312	NC_021162.1	Ca_kabuli_chr03	14879312	AA	TT	1946772377
SNP_P4_30543_14879389	NC_021162.1	Ca_kabuli_chr03	14879389	CC	AA	1946772379
SNP_P4_30544_14879992	NC_021162.1	Ca_kabuli_chr03	14879992	CC	TT	1946772381

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_30546_14880003	NC_021162.1	Ca_kabuli_chr03	14880003	CC	TT	1946772385
SNP_P4_30547_14880004	NC_021162.1	Ca_kabuli_chr03	14880004	GG	AA	1946772387
SNP_P4_30548_14880026	NC_021162.1	Ca_kabuli_chr03	14880026	GG	AA	1946772389
SNP_P4_30549_14880033	NC_021162.1	Ca_kabuli_chr03	14880033	TT	GG	1946772391
SNP_P4_30550_14880034	NC_021162.1	Ca_kabuli_chr03	14880034	CC	AA	1946772393
SNP_P4_30552_14880876	NC_021162.1	Ca_kabuli_chr03	14880876	TT	GG	1946772395
SNP_P4_30553_14880889	NC_021162.1	Ca_kabuli_chr03	14880889	CC	GG	1946772397
SNP_P4_30554_14880891	NC_021162.1	Ca_kabuli_chr03	14880891	GG	AA	1946772399
SNP_P4_30555_14880943	NC_021162.1	Ca_kabuli_chr03	14880943	TT	CC	1946772401
SNP_P4_30556_14880978	NC_021162.1	Ca_kabuli_chr03	14880978	AA	GG	1946772403
SNP_P4_30557_14881069	NC_021162.1	Ca_kabuli_chr03	14881069	GG	AA	1946772405
SNP_P4_30558_14881143	NC_021162.1	Ca_kabuli_chr03	14881143	GG	AA	1946772407
SNP_P4_30559_14881183	NC_021162.1	Ca_kabuli_chr03	14881183	AA	TT	1946772409
SNP_P4_30560_14881189	NC_021162.1	Ca_kabuli_chr03	14881189	TT	CC	1946772411
SNP_P4_30561_14881311	NC_021162.1	Ca_kabuli_chr03	14881311	CC	TT	1946772413
SNP_P4_30562_14881397	NC_021162.1	Ca_kabuli_chr03	14881397	TT	GG	1946772415
SNP_P4_30563_14889048	NC_021162.1	Ca_kabuli_chr03	14889048	AA	TT	1946772417
SNP_P4_30564_14889195	NC_021162.1	Ca_kabuli_chr03	14889195	GG	CC	1946772419
SNP_P4_30565_14889334	NC_021162.1	Ca_kabuli_chr03	14889334	TT	CC	1946772421
SNP_P4_30566_14889380	NC_021162.1	Ca_kabuli_chr03	14889380	TT	GG	1946772423
SNP_P4_30567_14889463	NC_021162.1	Ca_kabuli_chr03	14889463	TT	AA	1946772425
SNP_P4_30568_14889568	NC_021162.1	Ca_kabuli_chr03	14889568	AA	TT	1946772427
SNP_P4_30569_14889664	NC_021162.1	Ca_kabuli_chr03	14889664	CC	TT	1946772429
SNP_P4_30570_14889745	NC_021162.1	Ca_kabuli_chr03	14889745	CC	TT	1946772431
SNP_P4_30571_14889805	NC_021162.1	Ca_kabuli_chr03	14889805	TT	CC	1946772433
SNP_P4_30572_14889891	NC_021162.1	Ca_kabuli_chr03	14889891	TT	AA	1946772435
SNP_P4_30573_14890030	NC_021162.1	Ca_kabuli_chr03	14890030	AA	GG	1946772437
SNP_P4_30574_14890031	NC_021162.1	Ca_kabuli_chr03	14890031	GG	TT	1946772439
SNP_P4_30575_14890033	NC_021162.1	Ca_kabuli_chr03	14890033	TT	GG	1946772441
SNP_P4_30576_14890034	NC_021162.1	Ca_kabuli_chr03	14890034	CC	TT	1946772443
SNP_P4_30577_14890035	NC_021162.1	Ca_kabuli_chr03	14890035	AA	GG	1946772445
SNP_P4_30578_14890176	NC_021162.1	Ca_kabuli_chr03	14890176	TT	CC	1946772447
SNP_P4_30579_14890772	NC_021162.1	Ca_kabuli_chr03	14890772	CC	TT	1946772449
SNP_P4_30580_14890809	NC_021162.1	Ca_kabuli_chr03	14890809	AA	GG	1946772451
SNP_P4_30581_14890812	NC_021162.1	Ca_kabuli_chr03	14890812	AA	CC	1946772453
SNP_P4_30582_14890847	NC_021162.1	Ca_kabuli_chr03	14890847	GG	AA	1946772455
SNP_P4_30583_14890932	NC_021162.1	Ca_kabuli_chr03	14890932	AA	GG	1946772457
SNP_P4_30584_14890933	NC_021162.1	Ca_kabuli_chr03	14890933	TT	CC	1946772459
SNP_P4_30585_14891123	NC_021162.1	Ca_kabuli_chr03	14891123	CC	GG	1946772461
SNP_P4_30586_14891152	NC_021162.1	Ca_kabuli_chr03	14891152	AA	GG	1946772463
SNP_P4_30587_14891174	NC_021162.1	Ca_kabuli_chr03	14891174	GG	CC	1946772465

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_30589_14892758	NC_021162.1	Ca_kabuli_chr03	14892758	TT	CC	1946772468
SNP_P4_30590_14892787	NC_021162.1	Ca_kabuli_chr03	14892787	CC	AA	1946772470
SNP_P4_30591_14892924	NC_021162.1	Ca_kabuli_chr03	14892924	AA	GG	1946772472
SNP_P4_30592_14892951	NC_021162.1	Ca_kabuli_chr03	14892951	CC	TT	1946772475
SNP_P4_30593_14893123	NC_021162.1	Ca_kabuli_chr03	14893123	AA	TT	1946772477
SNP_P4_30594_14893246	NC_021162.1	Ca_kabuli_chr03	14893246	CC	TT	1946772479
SNP_P4_30595_14893290	NC_021162.1	Ca_kabuli_chr03	14893290	GG	CC	1946772481
SNP_P4_30596_14893385	NC_021162.1	Ca_kabuli_chr03	14893385	CC	AA	1946772483
SNP_P4_30597_14893438	NC_021162.1	Ca_kabuli_chr03	14893438	TT	CC	1946772485
SNP_P4_30598_14893486	NC_021162.1	Ca_kabuli_chr03	14893486	CC	GG	1946772487
SNP_P4_30599_14893498	NC_021162.1	Ca_kabuli_chr03	14893498	AA	TT	1946772489
SNP_P4_30600_14893537	NC_021162.1	Ca_kabuli_chr03	14893537	AA	CC	1946772491
SNP_P4_30601_14893603	NC_021162.1	Ca_kabuli_chr03	14893603	GG	TT	1946772493
SNP_P4_30602_14893646	NC_021162.1	Ca_kabuli_chr03	14893646	TT	CC	1946772495
SNP_P4_30603_14893720	NC_021162.1	Ca_kabuli_chr03	14893720	CC	TT	1946772497
SNP_P4_30604_14895810	NC_021162.1	Ca_kabuli_chr03	14895810	AA	TT	1946772499
SNP_P4_30605_14900867	NC_021162.1	Ca_kabuli_chr03	14900867	GG	AA	1946772502
SNP_P4_30606_14900875	NC_021162.1	Ca_kabuli_chr03	14900875	CC	TT	1946772504
SNP_P4_30607_14900879	NC_021162.1	Ca_kabuli_chr03	14900879	CC	AA	1946772506
SNP_P4_30608_14900885	NC_021162.1	Ca_kabuli_chr03	14900885	AA	TT	1946772508
SNP_P4_30609_14900899	NC_021162.1	Ca_kabuli_chr03	14900899	CC	TT	1946772510
SNP_P4_30610_14900904	NC_021162.1	Ca_kabuli_chr03	14900904	AA	TT	1946772512
SNP_P4_30611_14900931	NC_021162.1	Ca_kabuli_chr03	14900931	CC	GG	1946772514
SNP_P4_30612_14900943	NC_021162.1	Ca_kabuli_chr03	14900943	CC	TT	1946772516
SNP_P4_30613_14901473	NC_021162.1	Ca_kabuli_chr03	14901473	AA	TT	1946772518
SNP_P4_30614_14902777	NC_021162.1	Ca_kabuli_chr03	14902777	TT	CC	1946772520
SNP_P4_30615_14902800	NC_021162.1	Ca_kabuli_chr03	14902800	TT	GG	1946772522
SNP_P4_30617_14904456	NC_021162.1	Ca_kabuli_chr03	14904456	TT	CC	1946772525
SNP_P4_30618_14905954	NC_021162.1	Ca_kabuli_chr03	14905954	AA	TT	1946772527
SNP_P4_30620_14908015	NC_021162.1	Ca_kabuli_chr03	14908015	AA	TT	1946772530
SNP_P4_30622_14919718	NC_021162.1	Ca_kabuli_chr03	14919718	GG	AA	1946772532
SNP_P4_30623_14935253	NC_021162.1	Ca_kabuli_chr03	14935253	GG	TT	1946772534
SNP_P4_30624_14935255	NC_021162.1	Ca_kabuli_chr03	14935255	AA	GG	1946772536
SNP_P4_30625_14936802	NC_021162.1	Ca_kabuli_chr03	14936802	GG	TT	1946772538
SNP_P4_30626_14944684	NC_021162.1	Ca_kabuli_chr03	14944684	GG	TT	1946772540
SNP_P4_30627_14947081	NC_021162.1	Ca_kabuli_chr03	14947081	TT	GG	1946772542
SNP_P4_30628_14952103	NC_021162.1	Ca_kabuli_chr03	14952103	AA	GG	1946772544
SNP_P4_30629_14952152	NC_021162.1	Ca_kabuli_chr03	14952152	AA	GG	1946772546
SNP_P4_30630_14952189	NC_021162.1	Ca_kabuli_chr03	14952189	TT	GG	1946772548
SNP_P4_30631_14952213	NC_021162.1	Ca_kabuli_chr03	14952213	CC	GG	1946772550
SNP_P4_30632_14952277	NC_021162.1	Ca_kabuli_chr03	14952277	TT	CC	1946772552

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_30634_14952313	NC_021162.1	Ca_kabuli_chr03	14952313	TT	GG	1946772556
SNP_P4_30635_14953625	NC_021162.1	Ca_kabuli_chr03	14953625	TT	CC	1946772558
SNP_P4_30636_14953813	NC_021162.1	Ca_kabuli_chr03	14953813	TT	AA	1946772560
SNP_P4_30637_14953989	NC_021162.1	Ca_kabuli_chr03	14953989	GG	AA	1946772562
SNP_P4_30638_14963933	NC_021162.1	Ca_kabuli_chr03	14963933	AA	GG	1946772564
SNP_P4_30639_14972851	NC_021162.1	Ca_kabuli_chr03	14972851	GG	CC	1946772566
SNP_P4_30640_14972852	NC_021162.1	Ca_kabuli_chr03	14972852	AA	GG	1946772568
SNP_P4_30641_14972863	NC_021162.1	Ca_kabuli_chr03	14972863	TT	CC	1946772570
SNP_P4_30642_14972870	NC_021162.1	Ca_kabuli_chr03	14972870	TT	CC	1946772572
SNP_P4_30643_14987158	NC_021162.1	Ca_kabuli_chr03	14987158	TT	AA	1946772574
SNP_P4_30644_14987248	NC_021162.1	Ca_kabuli_chr03	14987248	GG	AA	1946772577
SNP_P4_30645_14987264	NC_021162.1	Ca_kabuli_chr03	14987264	TT	CC	1946772579
SNP_P4_30646_14987457	NC_021162.1	Ca_kabuli_chr03	14987457	TT	GG	1946772581
SNP_P4_30647_15013555	NC_021162.1	Ca_kabuli_chr03	15013555	AA	GG	1946772583
SNP_P4_30648_15013557	NC_021162.1	Ca_kabuli_chr03	15013557	TT	CC	1946772585
SNP_P4_30649_15032578	NC_021162.1	Ca_kabuli_chr03	15032578	TT	GG	1946772587
SNP_P4_30650_15033561	NC_021162.1	Ca_kabuli_chr03	15033561	GG	TT	1946772589
SNP_P4_30651_15033621	NC_021162.1	Ca_kabuli_chr03	15033621	AA	TT	1946772591
SNP_P4_30652_15033622	NC_021162.1	Ca_kabuli_chr03	15033622	GG	TT	1946772593
SNP_P4_30653_15034379	NC_021162.1	Ca_kabuli_chr03	15034379	CC	TT	1946772595
SNP_P4_30654_15034382	NC_021162.1	Ca_kabuli_chr03	15034382	TT	CC	1946772597
SNP_P4_30655_15038518	NC_021162.1	Ca_kabuli_chr03	15038518	CC	TT	1946772599
SNP_P4_30656_15038531	NC_021162.1	Ca_kabuli_chr03	15038531	TT	CC	1946772601
SNP_P4_30657_15038792	NC_021162.1	Ca_kabuli_chr03	15038792	AA	CC	1946772603
SNP_P4_30659_15038949	NC_021162.1	Ca_kabuli_chr03	15038949	CC	TT	1946772605
SNP_P4_30660_15038981	NC_021162.1	Ca_kabuli_chr03	15038981	GG	AA	1946772607
SNP_P4_30661_15038989	NC_021162.1	Ca_kabuli_chr03	15038989	TT	CC	1946772609
SNP_P4_30662_15039218	NC_021162.1	Ca_kabuli_chr03	15039218	CC	AA	1946772611
SNP_P4_30664_15039363	NC_021162.1	Ca_kabuli_chr03	15039363	AA	TT	1946772613
SNP_P4_30665_15042477	NC_021162.1	Ca_kabuli_chr03	15042477	CC	TT	1946772615
SNP_P4_30667_15047360	NC_021162.1	Ca_kabuli_chr03	15047360	TT	CC	1946772617
SNP_P4_30668_15047616	NC_021162.1	Ca_kabuli_chr03	15047616	CC	TT	1946772619
SNP_P4_30669_15047652	NC_021162.1	Ca_kabuli_chr03	15047652	TT	CC	1946772621
SNP_P4_30670_15047667	NC_021162.1	Ca_kabuli_chr03	15047667	TT	GG	1946772623
SNP_P4_30671_15047819	NC_021162.1	Ca_kabuli_chr03	15047819	AA	GG	1946772625
SNP_P4_30672_15049391	NC_021162.1	Ca_kabuli_chr03	15049391	CC	GG	1946772627
SNP_P4_30673_15052145	NC_021162.1	Ca_kabuli_chr03	15052145	TT	AA	1946772629
SNP_P4_30674_15052898	NC_021162.1	Ca_kabuli_chr03	15052898	CC	GG	1946772631
SNP_P4_30675_15053002	NC_021162.1	Ca_kabuli_chr03	15053002	GG	AA	1946772633
SNP_P4_30676_15053080	NC_021162.1	Ca_kabuli_chr03	15053080	GG	AA	1946772635
SNP_P4_30678_15072295	NC_021162.1	Ca_kabuli_chr03	15072295	GG	AA	1946772637

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_30681_15072506	NC_021162.1	Ca_kabuli_chr03	15072506	AA	CC	1946772642
SNP_P4_30682_15072516	NC_021162.1	Ca_kabuli_chr03	15072516	TT	CC	1946772644
SNP_P4_30683_15072535	NC_021162.1	Ca_kabuli_chr03	15072535	GG	CC	1946772646
SNP_P4_30686_15124603	NC_021162.1	Ca_kabuli_chr03	15124603	AA	GG	1946772648
SNP_P4_30687_15124627	NC_021162.1	Ca_kabuli_chr03	15124627	AA	GG	1946772650
SNP_P4_30688_15125321	NC_021162.1	Ca_kabuli_chr03	15125321	TT	AA	1946772652
SNP_P4_30689_15145062	NC_021162.1	Ca_kabuli_chr03	15145062	CC	AA	1946772654
SNP_P4_30690_15158798	NC_021162.1	Ca_kabuli_chr03	15158798	AA	CC	1946772656
SNP_P4_30691_15173074	NC_021162.1	Ca_kabuli_chr03	15173074	CC	GG	1946772658
SNP_P4_30692_15173136	NC_021162.1	Ca_kabuli_chr03	15173136	GG	CC	1946772661
SNP_P4_30693_15212417	NC_021162.1	Ca_kabuli_chr03	15212417	CC	AA	1946772663
SNP_P4_30694_15212423	NC_021162.1	Ca_kabuli_chr03	15212423	GG	AA	1946772665
SNP_P4_30695_15212440	NC_021162.1	Ca_kabuli_chr03	15212440	TT	CC	1946772667
SNP_P4_30696_15212540	NC_021162.1	Ca_kabuli_chr03	15212540	GG	AA	1946772669
SNP_P4_30697_15216080	NC_021162.1	Ca_kabuli_chr03	15216080	TT	CC	1946772671
SNP_P4_30698_15231692	NC_021162.1	Ca_kabuli_chr03	15231692	AA	GG	1946772673
SNP_P4_30699_15231840	NC_021162.1	Ca_kabuli_chr03	15231840	GG	AA	1946772675
SNP_P4_30700_15231999	NC_021162.1	Ca_kabuli_chr03	15231999	TT	CC	1946772677
SNP_P4_30701_15232252	NC_021162.1	Ca_kabuli_chr03	15232252	AA	GG	1946772680
SNP_P4_30702_15239878	NC_021162.1	Ca_kabuli_chr03	15239878	CC	TT	1946772682
SNP_P4_30703_15266412	NC_021162.1	Ca_kabuli_chr03	15266412	TT	AA	1946772684
SNP_P4_30704_15271861	NC_021162.1	Ca_kabuli_chr03	15271861	GG	AA	1946772686
SNP_P4_30705_15272204	NC_021162.1	Ca_kabuli_chr03	15272204	AA	GG	1946772688
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SNP_P4_30707_15297139	NC_021162.1	Ca_kabuli_chr03	15297139	GG	AA	1946772693
SNP_P4_30708_15299654	NC_021162.1	Ca_kabuli_chr03	15299654	CC	AA	1946772695
SNP_P4_30709_15301292	NC_021162.1	Ca_kabuli_chr03	15301292	CC	TT	1946772697
SNP_P4_30710_15305580	NC_021162.1	Ca_kabuli_chr03	15305580	TT	GG	1946772699
SNP_P4_30711_15308464	NC_021162.1	Ca_kabuli_chr03	15308464	GG	AA	1946772701
SNP_P4_30712_15309631	NC_021162.1	Ca_kabuli_chr03	15309631	TT	CC	1946772703
SNP_P4_30713_15309918	NC_021162.1	Ca_kabuli_chr03	15309918	CC	TT	1946772705
SNP_P4_30714_15309924	NC_021162.1	Ca_kabuli_chr03	15309924	AA	TT	1946772707
SNP_P4_30715_15309941	NC_021162.1	Ca_kabuli_chr03	15309941	AA	GG	1946772709
SNP_P4_30716_15314117	NC_021162.1	Ca_kabuli_chr03	15314117	GG	AA	1946772711
SNP_P4_30717_15314199	NC_021162.1	Ca_kabuli_chr03	15314199	GG	AA	1946772714
SNP_P4_30718_15314488	NC_021162.1	Ca_kabuli_chr03	15314488	TT	CC	1946772716
SNP_P4_30719_15324516	NC_021162.1	Ca_kabuli_chr03	15324516	CC	GG	1946772718
SNP_P4_30720_15331855	NC_021162.1	Ca_kabuli_chr03	15331855	AA	GG	1946772720
SNP_P4_30721_15332236	NC_021162.1	Ca_kabuli_chr03	15332236	AA	CC	1946772722
SNP_P4_30722_15338295	NC_021162.1	Ca_kabuli_chr03	15338295	GG	CC	1946772724
SNP_P4_30723_15338348	NC_021162.1	Ca_kabuli_chr03	15338348	CC	AA	1946772726

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_30728_15396920	NC_021162.1	Ca_kabuli_chr03	15396920	TT	CC	1946772733
SNP_P4_30729_15422305	NC_021162.1	Ca_kabuli_chr03	15422305	TT	GG	1946772735
SNP_P4_30730_15468084	NC_021162.1	Ca_kabuli_chr03	15468084	CC	AA	1946772737
SNP_P4_30731_15485834	NC_021162.1	Ca_kabuli_chr03	15485834	CC	GG	1946772739
SNP_P4_30732_15547929	NC_021162.1	Ca_kabuli_chr03	15547929	AA	TT	1946772741
SNP_P4_30733_15583874	NC_021162.1	Ca_kabuli_chr03	15583874	TT	CC	1946772743
SNP_P4_30734_15583899	NC_021162.1	Ca_kabuli_chr03	15583899	AA	CC	1946772746
SNP_P4_30735_15584074	NC_021162.1	Ca_kabuli_chr03	15584074	CC	GG	1946772748
SNP_P4_30736_15584182	NC_021162.1	Ca_kabuli_chr03	15584182	CC	AA	1946772750
SNP_P4_30737_15588649	NC_021162.1	Ca_kabuli_chr03	15588649	AA	GG	1946772752
SNP_P4_30738_15588665	NC_021162.1	Ca_kabuli_chr03	15588665	GG	AA	1946772754
SNP_P4_30739_15588669	NC_021162.1	Ca_kabuli_chr03	15588669	CC	TT	1946772756
SNP_P4_30740_15588672	NC_021162.1	Ca_kabuli_chr03	15588672	CC	TT	1946772759
SNP_P4_30741_15588682	NC_021162.1	Ca_kabuli_chr03	15588682	AA	GG	1946772761
SNP_P4_30742_15588731	NC_021162.1	Ca_kabuli_chr03	15588731	AA	GG	1946772763
SNP_P4_30743_15588735	NC_021162.1	Ca_kabuli_chr03	15588735	GG	AA	1946772765
SNP_P4_30744_15588738	NC_021162.1	Ca_kabuli_chr03	15588738	AA	CC	1946772767
SNP_P4_30745_15588788	NC_021162.1	Ca_kabuli_chr03	15588788	GG	TT	1946772769
SNP_P4_30746_15588830	NC_021162.1	Ca_kabuli_chr03	15588830	TT	CC	1946772771
SNP_P4_30747_15588912	NC_021162.1	Ca_kabuli_chr03	15588912	AA	CC	1946772773
SNP_P4_30748_15611261	NC_021162.1	Ca_kabuli_chr03	15611261	AA	GG	1946772775
SNP_P4_30749_15620554	NC_021162.1	Ca_kabuli_chr03	15620554	AA	GG	1946772777
SNP_P4_30750_15620617	NC_021162.1	Ca_kabuli_chr03	15620617	AA	GG	1946772779
SNP_P4_30751_15620621	NC_021162.1	Ca_kabuli_chr03	15620621	TT	AA	1946772781
SNP_P4_30752_15620895	NC_021162.1	Ca_kabuli_chr03	15620895	GG	AA	1946772784
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SNP_P4_30755_15653264	NC_021162.1	Ca_kabuli_chr03	15653264	TT	GG	1946772790
SNP_P4_30756_15657522	NC_021162.1	Ca_kabuli_chr03	15657522	AA	GG	1946772792
SNP_P4_30757_15657545	NC_021162.1	Ca_kabuli_chr03	15657545	TT	CC	1946772794
SNP_P4_30758_15657579	NC_021162.1	Ca_kabuli_chr03	15657579	AA	CC	1946772796
SNP_P4_30759_15657580	NC_021162.1	Ca_kabuli_chr03	15657580	TT	CC	1946772799
SNP_P4_30760_15657605	NC_021162.1	Ca_kabuli_chr03	15657605	GG	CC	1946772801
SNP_P4_30761_15657620	NC_021162.1	Ca_kabuli_chr03	15657620	AA	GG	1946772803
SNP_P4_30762_15657677	NC_021162.1	Ca_kabuli_chr03	15657677	AA	GG	1946772805
SNP_P4_30763_15657720	NC_021162.1	Ca_kabuli_chr03	15657720	GG	AA	1946772807
SNP_P4_30764_15657745	NC_021162.1	Ca_kabuli_chr03	15657745	AA	GG	1946772809
SNP_P4_30765_15657755	NC_021162.1	Ca_kabuli_chr03	15657755	TT	CC	1946772811
SNP_P4_30766_15657768	NC_021162.1	Ca_kabuli_chr03	15657768	AA	GG	1946772813
SNP_P4_30767_15657779	NC_021162.1	Ca_kabuli_chr03	15657779	AA	GG	1946772815

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_30770_15657913	NC_021162.1	Ca_kabuli_chr03	15657913	TT	CC	1946772821
SNP_P4_30771_15657931	NC_021162.1	Ca_kabuli_chr03	15657931	AA	GG	1946772823
SNP_P4_30772_15657942	NC_021162.1	Ca_kabuli_chr03	15657942	CC	TT	1946772825
SNP_P4_30773_15657944	NC_021162.1	Ca_kabuli_chr03	15657944	AA	CC	1946772827
SNP_P4_30774_15657955	NC_021162.1	Ca_kabuli_chr03	15657955	TT	CC	1946772829
SNP_P4_30775_15657968	NC_021162.1	Ca_kabuli_chr03	15657968	CC	AA	1946772831
SNP_P4_30776_15657972	NC_021162.1	Ca_kabuli_chr03	15657972	AA	CC	1946772833
SNP_P4_30777_15657977	NC_021162.1	Ca_kabuli_chr03	15657977	TT	CC	1946772835
SNP_P4_30778_15658198	NC_021162.1	Ca_kabuli_chr03	15658198	TT	GG	1946772837
SNP_P4_30779_15658199	NC_021162.1	Ca_kabuli_chr03	15658199	GG	AA	1946772839
SNP_P4_30780_15658210	NC_021162.1	Ca_kabuli_chr03	15658210	TT	CC	1946772841
SNP_P4_30781_15658304	NC_021162.1	Ca_kabuli_chr03	15658304	TT	CC	1946772843
SNP_P4_30782_15658389	NC_021162.1	Ca_kabuli_chr03	15658389	TT	CC	1946772846
SNP_P4_30783_15658437	NC_021162.1	Ca_kabuli_chr03	15658437	TT	AA	1946772848
SNP_P4_30784_15658469	NC_021162.1	Ca_kabuli_chr03	15658469	GG	AA	1946772850
SNP_P4_30786_15658509	NC_021162.1	Ca_kabuli_chr03	15658509	CC	GG	1946772852
SNP_P4_30788_15658530	NC_021162.1	Ca_kabuli_chr03	15658530	AA	CC	1946772854
SNP_P4_30789_15658537	NC_021162.1	Ca_kabuli_chr03	15658537	TT	CC	1946772856
SNP_P4_30790_15658598	NC_021162.1	Ca_kabuli_chr03	15658598	GG	TT	1946772858
SNP_P4_30791_15658686	NC_021162.1	Ca_kabuli_chr03	15658686	TT	GG	1946772860
SNP_P4_30792_15658714	NC_021162.1	Ca_kabuli_chr03	15658714	TT	GG	1946772862
SNP_P4_30793_15658736	NC_021162.1	Ca_kabuli_chr03	15658736	TT	CC	1946772865
SNP_P4_30794_15658803	NC_021162.1	Ca_kabuli_chr03	15658803	AA	CC	1946772867
SNP_P4_30795_15658805	NC_021162.1	Ca_kabuli_chr03	15658805	GG	CC	1946772869
SNP_P4_30796_15658815	NC_021162.1	Ca_kabuli_chr03	15658815	TT	CC	1946772871
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SNP_P4_30798_15658867	NC_021162.1	Ca_kabuli_chr03	15658867	TT	CC	1946772875
SNP_P4_30799_15658923	NC_021162.1	Ca_kabuli_chr03	15658923	AA	GG	1946772877
SNP_P4_30800_15658928	NC_021162.1	Ca_kabuli_chr03	15658928	TT	CC	1946772879
SNP_P4_30801_15658971	NC_021162.1	Ca_kabuli_chr03	15658971	TT	CC	1946772881
SNP_P4_30802_15658984	NC_021162.1	Ca_kabuli_chr03	15658984	TT	CC	1946772883
SNP_P4_30803_15659061	NC_021162.1	Ca_kabuli_chr03	15659061	AA	CC	1946772885
SNP_P4_30804_15659075	NC_021162.1	Ca_kabuli_chr03	15659075	AA	CC	1946772887
SNP_P4_30805_15659081	NC_021162.1	Ca_kabuli_chr03	15659081	CC	TT	1946772890
SNP_P4_30806_15659125	NC_021162.1	Ca_kabuli_chr03	15659125	TT	CC	1946772892
SNP_P4_30807_15659138	NC_021162.1	Ca_kabuli_chr03	15659138	GG	TT	1946772894
SNP_P4_30808_15659140	NC_021162.1	Ca_kabuli_chr03	15659140	AA	GG	1946772896
SNP_P4_30809_15659151	NC_021162.1	Ca_kabuli_chr03	15659151	CC	AA	1946772898
SNP_P4_30810_15659162	NC_021162.1	Ca_kabuli_chr03	15659162	TT	CC	1946772900
SNP_P4_30811_15659213	NC_021162.1	Ca_kabuli_chr03	15659213	AA	CC	1946772903

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_30814_15659306	NC_021162.1	Ca_kabuli_chr03	15659306	TT	GG	1946772909
SNP_P4_30815_15659311	NC_021162.1	Ca_kabuli_chr03	15659311	TT	CC	1946772911
SNP_P4_30816_15659319	NC_021162.1	Ca_kabuli_chr03	15659319	GG	TT	1946772913
SNP_P4_30817_15659334	NC_021162.1	Ca_kabuli_chr03	15659334	CC	AA	1946772915
SNP_P4_30818_15659354	NC_021162.1	Ca_kabuli_chr03	15659354	AA	GG	1946772917
SNP_P4_30819_15659363	NC_021162.1	Ca_kabuli_chr03	15659363	AA	CC	1946772920
SNP_P4_30820_15659387	NC_021162.1	Ca_kabuli_chr03	15659387	GG	AA	1946772922
SNP_P4_30821_15659400	NC_021162.1	Ca_kabuli_chr03	15659400	TT	CC	1946772924
SNP_P4_30822_15659420	NC_021162.1	Ca_kabuli_chr03	15659420	TT	CC	1946772926
SNP_P4_30823_15659459	NC_021162.1	Ca_kabuli_chr03	15659459	AA	TT	1946772928
SNP_P4_30824_15659474	NC_021162.1	Ca_kabuli_chr03	15659474	AA	GG	1946772930
SNP_P4_30825_15659508	NC_021162.1	Ca_kabuli_chr03	15659508	TT	AA	1946772932
SNP_P4_30826_15659513	NC_021162.1	Ca_kabuli_chr03	15659513	AA	GG	1946772934
SNP_P4_30827_15659556	NC_021162.1	Ca_kabuli_chr03	15659556	AA	CC	1946772936
SNP_P4_30828_15659582	NC_021162.1	Ca_kabuli_chr03	15659582	GG	TT	1946772938
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SNP_P4_30830_15659597	NC_021162.1	Ca_kabuli_chr03	15659597	AA	TT	1946772942
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SNP_P4_30834_15659667	NC_021162.1	Ca_kabuli_chr03	15659667	TT	CC	1946772950
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SNP_P4_30843_15659997	NC_021162.1	Ca_kabuli_chr03	15659997	AA	GG	1946772969
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SNP_P4_30846_15660076	NC_021162.1	Ca_kabuli_chr03	15660076	AA	GG	1946772975
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SNP_P4_30848_15660116	NC_021162.1	Ca_kabuli_chr03	15660116	TT	CC	1946772979
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SNP_P4_30850_15660163	NC_021162.1	Ca_kabuli_chr03	15660163	GG	AA	1946772983
SNP_P4_30851_15660341	NC_021162.1	Ca_kabuli_chr03	15660341	TT	CC	1946772985
SNP_P4_30852_15660348	NC_021162.1	Ca_kabuli_chr03	15660348	AA	GG	1946772987
SNP_P4_30853_15660352	NC_021162.1	Ca_kabuli_chr03	15660352	AA	GG	1946772989

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_30857_15660438	NC_021162.1	Ca_kabuli_chr03	15660438	CC	GG	1946772998
SNP_P4_30858_15660466	NC_021162.1	Ca_kabuli_chr03	15660466	TT	CC	1946773000
SNP_P4_30859_15660467	NC_021162.1	Ca_kabuli_chr03	15660467	AA	GG	1946773002
SNP_P4_30861_15660551	NC_021162.1	Ca_kabuli_chr03	15660551	AA	GG	1946773004
SNP_P4_30862_15660579	NC_021162.1	Ca_kabuli_chr03	15660579	CC	TT	1946773006
SNP_P4_30863_15660622	NC_021162.1	Ca_kabuli_chr03	15660622	AA	CC	1946773008
SNP_P4_30864_15660636	NC_021162.1	Ca_kabuli_chr03	15660636	AA	GG	1946773010
SNP_P4_30865_15660684	NC_021162.1	Ca_kabuli_chr03	15660684	AA	GG	1946773012
SNP_P4_30867_15689297	NC_021162.1	Ca_kabuli_chr03	15689297	GG	AA	1946773014
SNP_P4_30868_15690583	NC_021162.1	Ca_kabuli_chr03	15690583	AA	GG	1946773016
SNP_P4_30869_15732582	NC_021162.1	Ca_kabuli_chr03	15732582	AA	GG	1946773018
SNP_P4_30870_15752535	NC_021162.1	Ca_kabuli_chr03	15752535	TT	CC	1946773020
SNP_P4_30871_15806617	NC_021162.1	Ca_kabuli_chr03	15806617	CC	GG	1946773022
SNP_P4_30872_15810326	NC_021162.1	Ca_kabuli_chr03	15810326	GG	AA	1946773024
SNP_P4_30873_15810339	NC_021162.1	Ca_kabuli_chr03	15810339	TT	AA	1946773026
SNP_P4_30874_15810350	NC_021162.1	Ca_kabuli_chr03	15810350	CC	AA	1946773028
SNP_P4_30875_15831261	NC_021162.1	Ca_kabuli_chr03	15831261	GG	AA	1946773030
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SNP_P4_30879_15876623	NC_021162.1	Ca_kabuli_chr03	15876623	TT	GG	1946773035
SNP_P4_30880_15884175	NC_021162.1	Ca_kabuli_chr03	15884175	AA	CC	1946773037
SNP_P4_30881_15888772	NC_021162.1	Ca_kabuli_chr03	15888772	GG	AA	1946773039
SNP_P4_30882_15911672	NC_021162.1	Ca_kabuli_chr03	15911672	AA	GG	1946773041
SNP_P4_30883_15913593	NC_021162.1	Ca_kabuli_chr03	15913593	AA	GG	1946773043
SNP_P4_30885_15956725	NC_021162.1	Ca_kabuli_chr03	15956725	TT	GG	1946773046
SNP_P4_30886_15967768	NC_021162.1	Ca_kabuli_chr03	15967768	AA	GG	1946773048
SNP_P4_30887_15978819	NC_021162.1	Ca_kabuli_chr03	15978819	AA	GG	1946773050
SNP_P4_30888_15986325	NC_021162.1	Ca_kabuli_chr03	15986325	AA	CC	1946773052
SNP_P4_30889_15988949	NC_021162.1	Ca_kabuli_chr03	15988949	GG	AA	1946773054
SNP_P4_30890_16046380	NC_021162.1	Ca_kabuli_chr03	16046380	GG	AA	1946773057
SNP_P4_30892_16078493	NC_021162.1	Ca_kabuli_chr03	16078493	TT	GG	1946773059
SNP_P4_30893_16094011	NC_021162.1	Ca_kabuli_chr03	16094011	TT	CC	1946773061
SNP_P4_30894_16094015	NC_021162.1	Ca_kabuli_chr03	16094015	CC	TT	1946773063
SNP_P4_30896_16106775	NC_021162.1	Ca_kabuli_chr03	16106775	GG	TT	1946773065
SNP_P4_30897_16106863	NC_021162.1	Ca_kabuli_chr03	16106863	GG	CC	1946773067
SNP_P4_30898_16106945	NC_021162.1	Ca_kabuli_chr03	16106945	AA	GG	1946773069
SNP_P4_30899_16106983	NC_021162.1	Ca_kabuli_chr03	16106983	TT	CC	1946773071
SNP_P4_30900_16107228	NC_021162.1	Ca_kabuli_chr03	16107228	AA	GG	1946773073
SNP_P4_30901_16107263	NC_021162.1	Ca_kabuli_chr03	16107263	AA	GG	1946773075
SNP_P4_30902_16107292	NC_021162.1	Ca_kabuli_chr03	16107292	AA	GG	1946773077

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_30904_16107417	NC_021162.1	Ca_kabuli_chr03	16107417	TT	CC	1946773081
SNP_P4_30906_16115088	NC_021162.1	Ca_kabuli_chr03	16115088	AA	GG	1946773084
SNP_P4_30907_16115201	NC_021162.1	Ca_kabuli_chr03	16115201	GG	AA	1946773086
SNP_P4_30908_16115209	NC_021162.1	Ca_kabuli_chr03	16115209	CC	AA	1946773088
SNP_P4_30909_16116723	NC_021162.1	Ca_kabuli_chr03	16116723	TT	AA	1946773090
SNP_P4_30910_16117260	NC_021162.1	Ca_kabuli_chr03	16117260	AA	GG	1946773092
SNP_P4_30911_16117495	NC_021162.1	Ca_kabuli_chr03	16117495	CC	GG	1946773094
SNP_P4_30912_16117499	NC_021162.1	Ca_kabuli_chr03	16117499	TT	CC	1946773096
SNP_P4_30913_16117500	NC_021162.1	Ca_kabuli_chr03	16117500	GG	AA	1946773098
SNP_P4_30914_16117549	NC_021162.1	Ca_kabuli_chr03	16117549	GG	AA	1946773100
SNP_P4_30915_16117587	NC_021162.1	Ca_kabuli_chr03	16117587	CC	AA	1946773102
SNP_P4_30916_16117952	NC_021162.1	Ca_kabuli_chr03	16117952	AA	TT	1946773104
SNP_P4_30917_16117965	NC_021162.1	Ca_kabuli_chr03	16117965	TT	CC	1946773107
SNP_P4_30919_16133223	NC_021162.1	Ca_kabuli_chr03	16133223	TT	CC	1946773109
SNP_P4_30921_16133445	NC_021162.1	Ca_kabuli_chr03	16133445	CC	GG	1946773111
SNP_P4_30923_16133506	NC_021162.1	Ca_kabuli_chr03	16133506	TT	AA	1946773113
SNP_P4_30924_16133508	NC_021162.1	Ca_kabuli_chr03	16133508	TT	AA	1946773115
SNP_P4_30925_16133528	NC_021162.1	Ca_kabuli_chr03	16133528	CC	TT	1946773117
SNP_P4_30927_16141616	NC_021162.1	Ca_kabuli_chr03	16141616	CC	TT	1946773119
SNP_P4_30928_16155170	NC_021162.1	Ca_kabuli_chr03	16155170	TT	AA	1946773121
SNP_P4_30929_16160472	NC_021162.1	Ca_kabuli_chr03	16160472	TT	CC	1946773123
SNP_P4_30930_16160682	NC_021162.1	Ca_kabuli_chr03	16160682	GG	AA	1946773125
SNP_P4_30931_16160714	NC_021162.1	Ca_kabuli_chr03	16160714	TT	CC	1946773127
SNP_P4_30932_16160818	NC_021162.1	Ca_kabuli_chr03	16160818	GG	AA	1946773129
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SNP_P4_30935_16160989	NC_021162.1	Ca_kabuli_chr03	16160989	AA	GG	1946773135
SNP_P4_30936_16161048	NC_021162.1	Ca_kabuli_chr03	16161048	TT	GG	1946773138
SNP_P4_30937_16164198	NC_021162.1	Ca_kabuli_chr03	16164198	AA	GG	1946773140
SNP_P4_30938_16164247	NC_021162.1	Ca_kabuli_chr03	16164247	CC	TT	1946773142
SNP_P4_30939_16164261	NC_021162.1	Ca_kabuli_chr03	16164261	CC	AA	1946773144
SNP_P4_30940_16164283	NC_021162.1	Ca_kabuli_chr03	16164283	AA	GG	1946773146
SNP_P4_30941_16164292	NC_021162.1	Ca_kabuli_chr03	16164292	CC	GG	1946773149
SNP_P4_30942_16164308	NC_021162.1	Ca_kabuli_chr03	16164308	CC	TT	1946773151
SNP_P4_30943_16164482	NC_021162.1	Ca_kabuli_chr03	16164482	GG	CC	1946773153
SNP_P4_30944_16164503	NC_021162.1	Ca_kabuli_chr03	16164503	CC	TT	1946773155
SNP_P4_30945_16164524	NC_021162.1	Ca_kabuli_chr03	16164524	CC	GG	1946773157
SNP_P4_30946_16164613	NC_021162.1	Ca_kabuli_chr03	16164613	TT	AA	1946773159
SNP_P4_30948_16166862	NC_021162.1	Ca_kabuli_chr03	16166862	AA	TT	1946773162
SNP_P4_30949_16166938	NC_021162.1	Ca_kabuli_chr03	16166938	GG	AA	1946773164
SNP_P4_30950_16166948	NC_021162.1	Ca_kabuli_chr03	16166948	GG	AA	1946773166

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_30953_16167100	NC_021162.1	Ca_kabuli_chr03	16167100	GG	TT	1946773173
SNP_P4_30954_16167116	NC_021162.1	Ca_kabuli_chr03	16167116	CC	TT	1946773175
SNP_P4_30955_16167247	NC_021162.1	Ca_kabuli_chr03	16167247	AA	GG	1946773177
SNP_P4_30956_16167294	NC_021162.1	Ca_kabuli_chr03	16167294	AA	CC	1946773179
SNP_P4_30957_16168848	NC_021162.1	Ca_kabuli_chr03	16168848	TT	CC	1946773181
SNP_P4_30958_16168929	NC_021162.1	Ca_kabuli_chr03	16168929	CC	GG	1946773184
SNP_P4_30959_16168936	NC_021162.1	Ca_kabuli_chr03	16168936	CC	TT	1946773186
SNP_P4_30960_16168969	NC_021162.1	Ca_kabuli_chr03	16168969	GG	AA	1946773188
SNP_P4_30961_16168982	NC_021162.1	Ca_kabuli_chr03	16168982	CC	TT	1946773190
SNP_P4_30962_16169169	NC_021162.1	Ca_kabuli_chr03	16169169	AA	GG	1946773192
SNP_P4_30963_16169209	NC_021162.1	Ca_kabuli_chr03	16169209	CC	TT	1946773195
SNP_P4_30964_16169245	NC_021162.1	Ca_kabuli_chr03	16169245	GG	AA	1946773197
SNP_P4_30965_16170604	NC_021162.1	Ca_kabuli_chr03	16170604	TT	CC	1946773199
SNP_P4_30966_16170617	NC_021162.1	Ca_kabuli_chr03	16170617	CC	AA	1946773201
SNP_P4_30967_16170632	NC_021162.1	Ca_kabuli_chr03	16170632	GG	TT	1946773203
SNP_P4_30968_16170792	NC_021162.1	Ca_kabuli_chr03	16170792	AA	GG	1946773205
SNP_P4_30969_16170975	NC_021162.1	Ca_kabuli_chr03	16170975	CC	TT	1946773208
SNP_P4_30970_16170997	NC_021162.1	Ca_kabuli_chr03	16170997	TT	CC	1946773210
SNP_P4_30971_16170998	NC_021162.1	Ca_kabuli_chr03	16170998	CC	AA	1946773212
SNP_P4_30972_16171007	NC_021162.1	Ca_kabuli_chr03	16171007	GG	AA	1946773214
SNP_P4_30973_16171028	NC_021162.1	Ca_kabuli_chr03	16171028	CC	TT	1946773216
SNP_P4_30974_16171051	NC_021162.1	Ca_kabuli_chr03	16171051	TT	CC	1946773218
SNP_P4_30976_16171366	NC_021162.1	Ca_kabuli_chr03	16171366	CC	TT	1946773221
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SNP_P4_30978_16171625	NC_021162.1	Ca_kabuli_chr03	16171625	AA	TT	1946773225
SNP_P4_30979_16181478	NC_021162.1	Ca_kabuli_chr03	16181478	AA	TT	1946773227
SNP_P4_30980_16181553	NC_021162.1	Ca_kabuli_chr03	16181553	GG	TT	1946773229
SNP_P4_30981_16181971	NC_021162.1	Ca_kabuli_chr03	16181971	CC	TT	1946773232
SNP_P4_30982_16182007	NC_021162.1	Ca_kabuli_chr03	16182007	CC	TT	1946773234
SNP_P4_30983_16182402	NC_021162.1	Ca_kabuli_chr03	16182402	AA	CC	1946773236
SNP_P4_30984_16182646	NC_021162.1	Ca_kabuli_chr03	16182646	TT	CC	1946773238
SNP_P4_30985_16182674	NC_021162.1	Ca_kabuli_chr03	16182674	GG	AA	1946773240
SNP_P4_30987_16182938	NC_021162.1	Ca_kabuli_chr03	16182938	GG	AA	1946773242
SNP_P4_30988_16183187	NC_021162.1	Ca_kabuli_chr03	16183187	CC	TT	1946773244
SNP_P4_30989_16183207	NC_021162.1	Ca_kabuli_chr03	16183207	GG	AA	1946773247
SNP_P4_30990_16183241	NC_021162.1	Ca_kabuli_chr03	16183241	CC	GG	1946773249
SNP_P4_30991_16183257	NC_021162.1	Ca_kabuli_chr03	16183257	TT	CC	1946773251
SNP_P4_30992_16190153	NC_021162.1	Ca_kabuli_chr03	16190153	AA	GG	1946773253
SNP_P4_30993_16190165	NC_021162.1	Ca_kabuli_chr03	16190165	GG	AA	1946773256
SNP_P4_30994_16190276	NC_021162.1	Ca_kabuli_chr03	16190276	GG	TT	1946773258

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_30997_16190727	NC_021162.1	Ca_kabuli_chr03	16190727	CC	TT	1946773265
SNP_P4_30998_16190766	NC_021162.1	Ca_kabuli_chr03	16190766	TT	AA	1946773267
SNP_P4_31000_16190976	NC_021162.1	Ca_kabuli_chr03	16190976	AA	GG	1946773269
SNP_P4_31001_16195021	NC_021162.1	Ca_kabuli_chr03	16195021	CC	TT	1946773271
SNP_P4_31002_16195099	NC_021162.1	Ca_kabuli_chr03	16195099	GG	AA	1946773274
SNP_P4_31004_16195223	NC_021162.1	Ca_kabuli_chr03	16195223	AA	GG	1946773276
SNP_P4_31005_16195418	NC_021162.1	Ca_kabuli_chr03	16195418	TT	CC	1946773278
SNP_P4_31007_16195743	NC_021162.1	Ca_kabuli_chr03	16195743	AA	GG	1946773280
SNP_P4_31008_16195752	NC_021162.1	Ca_kabuli_chr03	16195752	AA	TT	1946773282
SNP_P4_31009_16195770	NC_021162.1	Ca_kabuli_chr03	16195770	CC	TT	1946773284
SNP_P4_31010_16195781	NC_021162.1	Ca_kabuli_chr03	16195781	GG	CC	1946773286
SNP_P4_31011_16195806	NC_021162.1	Ca_kabuli_chr03	16195806	AA	TT	1946773288
SNP_P4_31012_16195811	NC_021162.1	Ca_kabuli_chr03	16195811	CC	AA	1946773290
SNP_P4_31013_16195828	NC_021162.1	Ca_kabuli_chr03	16195828	CC	GG	1946773292
SNP_P4_31014_16195883	NC_021162.1	Ca_kabuli_chr03	16195883	GG	AA	1946773294
SNP_P4_31015_16195914	NC_021162.1	Ca_kabuli_chr03	16195914	AA	GG	1946773296
SNP_P4_31016_16195933	NC_021162.1	Ca_kabuli_chr03	16195933	CC	GG	1946773298
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SNP_P4_31023_16197226	NC_021162.1	Ca_kabuli_chr03	16197226	AA	CC	1946773312
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SNP_P4_31026_16197539	NC_021162.1	Ca_kabuli_chr03	16197539	GG	TT	1946773318
SNP_P4_31027_16197582	NC_021162.1	Ca_kabuli_chr03	16197582	CC	AA	1946773320
SNP_P4_31028_16197638	NC_021162.1	Ca_kabuli_chr03	16197638	AA	GG	1946773322
SNP_P4_31029_16197653	NC_021162.1	Ca_kabuli_chr03	16197653	CC	TT	1946773325
SNP_P4_31030_16197689	NC_021162.1	Ca_kabuli_chr03	16197689	AA	GG	1946773327
SNP_P4_31031_16197703	NC_021162.1	Ca_kabuli_chr03	16197703	GG	AA	1946773329
SNP_P4_31032_16197731	NC_021162.1	Ca_kabuli_chr03	16197731	GG	AA	1946773331
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SNP_P4_31034_16197749	NC_021162.1	Ca_kabuli_chr03	16197749	TT	CC	1946773335
SNP_P4_31035_16197797	NC_021162.1	Ca_kabuli_chr03	16197797	TT	AA	1946773337
SNP_P4_31036_16197808	NC_021162.1	Ca_kabuli_chr03	16197808	CC	TT	1946773339
SNP_P4_31037_16211999	NC_021162.1	Ca_kabuli_chr03	16211999	TT	AA	1946773341
SNP_P4_31038_16212025	NC_021162.1	Ca_kabuli_chr03	16212025	TT	AA	1946773343
SNP_P4_31039_16212049	NC_021162.1	Ca_kabuli_chr03	16212049	TT	CC	1946773345

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_31043_16212159	NC_021162.1	Ca_kabuli_chr03	16212159	GG	AA	1946773351
SNP_P4_31044_16212168	NC_021162.1	Ca_kabuli_chr03	16212168	AA	GG	1946773353
SNP_P4_31045_16212198	NC_021162.1	Ca_kabuli_chr03	16212198	GG	TT	1946773355
SNP_P4_31046_16212226	NC_021162.1	Ca_kabuli_chr03	16212226	GG	AA	1946773357
SNP_P4_31047_16212275	NC_021162.1	Ca_kabuli_chr03	16212275	TT	CC	1946773359
SNP_P4_31048_16212290	NC_021162.1	Ca_kabuli_chr03	16212290	AA	TT	1946773361
SNP_P4_31049_16212318	NC_021162.1	Ca_kabuli_chr03	16212318	TT	AA	1946773363
SNP_P4_31050_16212331	NC_021162.1	Ca_kabuli_chr03	16212331	GG	TT	1946773365
SNP_P4_31051_16212362	NC_021162.1	Ca_kabuli_chr03	16212362	AA	GG	1946773367
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SNP_P4_31058_16237507	NC_021162.1	Ca_kabuli_chr03	16237507	AA	GG	1946773380
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SNP_P4_31064_16245342	NC_021162.1	Ca_kabuli_chr03	16245342	AA	GG	1946773392
SNP_P4_31065_16249101	NC_021162.1	Ca_kabuli_chr03	16249101	AA	TT	1946773394
SNP_P4_31066_16249102	NC_021162.1	Ca_kabuli_chr03	16249102	AA	TT	1946773396
SNP_P4_31068_16253245	NC_021162.1	Ca_kabuli_chr03	16253245	AA	GG	1946773398
SNP_P4_31069_16253254	NC_021162.1	Ca_kabuli_chr03	16253254	CC	TT	1946773400
SNP_P4_31070_16260766	NC_021162.1	Ca_kabuli_chr03	16260766	CC	TT	1946773402
SNP_P4_31071_16260983	NC_021162.1	Ca_kabuli_chr03	16260983	CC	TT	1946773405
SNP_P4_31072_16264128	NC_021162.1	Ca_kabuli_chr03	16264128	GG	CC	1946773407
SNP_P4_31073_16279541	NC_021162.1	Ca_kabuli_chr03	16279541	CC	TT	1946773409
SNP_P4_31074_16283434	NC_021162.1	Ca_kabuli_chr03	16283434	AA	GG	1946773411
SNP_P4_31075_16283986	NC_021162.1	Ca_kabuli_chr03	16283986	GG	AA	1946773413
SNP_P4_31076_16331221	NC_021162.1	Ca_kabuli_chr03	16331221	TT	CC	1946773415
SNP_P4_31077_16331630	NC_021162.1	Ca_kabuli_chr03	16331630	AA	CC	1946773417
SNP_P4_31078_16331822	NC_021162.1	Ca_kabuli_chr03	16331822	AA	CC	1946773420
SNP_P4_31079_16346521	NC_021162.1	Ca_kabuli_chr03	16346521	AA	TT	1946773422
SNP_P4_31080_16347192	NC_021162.1	Ca_kabuli_chr03	16347192	TT	CC	1946773424
SNP_P4_31081_16357977	NC_021162.1	Ca_kabuli_chr03	16357977	TT	CC	1946773426
SNP_P4_31082_16373788	NC_021162.1	Ca_kabuli_chr03	16373788	CC	AA	1946773428
SNP_P4_31083_16378468	NC_021162.1	Ca_kabuli_chr03	16378468	GG	CC	1946773430
SNP_P4_31084_16378505	NC_021162.1	Ca_kabuli_chr03	16378505	CC	TT	1946773432

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_31086_16413573	NC_021162.1	Ca_kabuli_chr03	16413573	TT	CC	1946773436
SNP_P4_31087_16413587	NC_021162.1	Ca_kabuli_chr03	16413587	GG	AA	1946773438
SNP_P4_31088_16413639	NC_021162.1	Ca_kabuli_chr03	16413639	AA	GG	1946773440
SNP_P4_31089_16413642	NC_021162.1	Ca_kabuli_chr03	16413642	GG	AA	1946773442
SNP_P4_31090_16413648	NC_021162.1	Ca_kabuli_chr03	16413648	GG	AA	1946773444
SNP_P4_31091_16413662	NC_021162.1	Ca_kabuli_chr03	16413662	CC	TT	1946773446
SNP_P4_31092_16413666	NC_021162.1	Ca_kabuli_chr03	16413666	AA	GG	1946773448
SNP_P4_31093_16413698	NC_021162.1	Ca_kabuli_chr03	16413698	CC	AA	1946773450
SNP_P4_31094_16413725	NC_021162.1	Ca_kabuli_chr03	16413725	AA	GG	1946773452
SNP_P4_31095_16413863	NC_021162.1	Ca_kabuli_chr03	16413863	TT	CC	1946773454
SNP_P4_31096_16413954	NC_021162.1	Ca_kabuli_chr03	16413954	TT	CC	1946773456
SNP_P4_31097_16414054	NC_021162.1	Ca_kabuli_chr03	16414054	AA	CC	1946773458
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SNP_P4_31100_16441500	NC_021162.1	Ca_kabuli_chr03	16441500	TT	CC	1946773463
SNP_P4_31101_16441514	NC_021162.1	Ca_kabuli_chr03	16441514	CC	AA	1946773465
SNP_P4_31102_16441516	NC_021162.1	Ca_kabuli_chr03	16441516	AA	TT	1946773467
SNP_P4_31103_16441517	NC_021162.1	Ca_kabuli_chr03	16441517	AA	GG	1946773468
SNP_P4_31104_16441550	NC_021162.1	Ca_kabuli_chr03	16441550	GG	AA	1946773469
SNP_P4_31105_16441589	NC_021162.1	Ca_kabuli_chr03	16441589	GG	CC	1946773470
SNP_P4_31106_16441617	NC_021162.1	Ca_kabuli_chr03	16441617	AA	GG	1946773471
SNP_P4_31107_16441687	NC_021162.1	Ca_kabuli_chr03	16441687	TT	GG	1946773472
SNP_P4_31108_16447165	NC_021162.1	Ca_kabuli_chr03	16447165	GG	CC	1946773473
SNP_P4_31110_16470088	NC_021162.1	Ca_kabuli_chr03	16470088	TT	CC	1946773474
SNP_P4_31111_16471580	NC_021162.1	Ca_kabuli_chr03	16471580	CC	TT	1946773475
SNP_P4_31112_16471630	NC_021162.1	Ca_kabuli_chr03	16471630	TT	GG	1946773476
SNP_P4_31113_16471637	NC_021162.1	Ca_kabuli_chr03	16471637	AA	TT	1946773477
SNP_P4_31115_16471686	NC_021162.1	Ca_kabuli_chr03	16471686	AA	GG	1946773479
SNP_P4_31116_16471915	NC_021162.1	Ca_kabuli_chr03	16471915	CC	AA	1946773481
SNP_P4_31117_16471943	NC_021162.1	Ca_kabuli_chr03	16471943	TT	GG	1946773483
SNP_P4_31118_16472423	NC_021162.1	Ca_kabuli_chr03	16472423	AA	GG	1946773485
SNP_P4_31119_16472648	NC_021162.1	Ca_kabuli_chr03	16472648	AA	CC	1946773487
SNP_P4_31120_16473376	NC_021162.1	Ca_kabuli_chr03	16473376	CC	TT	1946773489
SNP_P4_31122_16489043	NC_021162.1	Ca_kabuli_chr03	16489043	GG	AA	1946773491
SNP_P4_31123_16504050	NC_021162.1	Ca_kabuli_chr03	16504050	CC	TT	1946773493
SNP_P4_31124_16504182	NC_021162.1	Ca_kabuli_chr03	16504182	TT	CC	1946773495
SNP_P4_31125_16504960	NC_021162.1	Ca_kabuli_chr03	16504960	TT	AA	1946773498
SNP_P4_31126_16509420	NC_021162.1	Ca_kabuli_chr03	16509420	TT	GG	1946773500
SNP_P4_31129_16556014	NC_021162.1	Ca_kabuli_chr03	16556014	GG	AA	1946773502
SNP_P4_31130_16556043	NC_021162.1	Ca_kabuli_chr03	16556043	CC	TT	1946773504
SNP_P4_31131_16633818	NC_021162.1	Ca_kabuli_chr03	16633818	TT	CC	1946773506
SNP_P4_31132_16662023	NC_021162.1	Ca_kabuli_chr03	16662023	TT	AA	1946773508

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_31134_16674033	NC_021162.1	Ca_kabuli_chr03	16674033	TT	GG	1946773512
SNP_P4_31136_16679136	NC_021162.1	Ca_kabuli_chr03	16679136	GG	AA	1946773514
SNP_P4_31137_16724334	NC_021162.1	Ca_kabuli_chr03	16724334	GG	AA	1946773517
SNP_P4_31139_16747373	NC_021162.1	Ca_kabuli_chr03	16747373	AA	GG	1946773519
SNP_P4_31140_16747391	NC_021162.1	Ca_kabuli_chr03	16747391	TT	CC	1946773521
SNP_P4_31141_16747396	NC_021162.1	Ca_kabuli_chr03	16747396	TT	CC	1946773523
SNP_P4_31142_16772686	NC_021162.1	Ca_kabuli_chr03	16772686	CC	TT	1946773525
SNP_P4_31143_16780245	NC_021162.1	Ca_kabuli_chr03	16780245	GG	AA	1946773527
SNP_P4_31144_16784985	NC_021162.1	Ca_kabuli_chr03	16784985	CC	AA	1946773529
SNP_P4_31146_16820942	NC_021162.1	Ca_kabuli_chr03	16820942	TT	CC	1946773531
SNP_P4_31147_16879470	NC_021162.1	Ca_kabuli_chr03	16879470	GG	AA	1946773533
SNP_P4_31148_16879721	NC_021162.1	Ca_kabuli_chr03	16879721	GG	AA	1946773535
SNP_P4_31150_16879972	NC_021162.1	Ca_kabuli_chr03	16879972	CC	TT	1946773537
SNP_P4_31151_16887095	NC_021162.1	Ca_kabuli_chr03	16887095	TT	CC	1946773539
SNP_P4_31152_16894800	NC_021162.1	Ca_kabuli_chr03	16894800	TT	GG	1946773541
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SNP_P4_31158_16976026	NC_021162.1	Ca_kabuli_chr03	16976026	GG	AA	1946773554
SNP_P4_31159_17030909	NC_021162.1	Ca_kabuli_chr03	17030909	AA	TT	1946773556
SNP_P4_31160_17030915	NC_021162.1	Ca_kabuli_chr03	17030915	TT	AA	1946773558
SNP_P4_31161_17031033	NC_021162.1	Ca_kabuli_chr03	17031033	CC	TT	1946773560
SNP_P4_31162_17031342	NC_021162.1	Ca_kabuli_chr03	17031342	AA	GG	1946773562
SNP_P4_31163_17031413	NC_021162.1	Ca_kabuli_chr03	17031413	TT	GG	1946773564
SNP_P4_31164_17031515	NC_021162.1	Ca_kabuli_chr03	17031515	AA	TT	1946773566
SNP_P4_31165_17031539	NC_021162.1	Ca_kabuli_chr03	17031539	TT	GG	1946773568
SNP_P4_31166_17031886	NC_021162.1	Ca_kabuli_chr03	17031886	AA	CC	1946773570
SNP_P4_31167_17032467	NC_021162.1	Ca_kabuli_chr03	17032467	CC	GG	1946773572
SNP_P4_31169_17034444	NC_021162.1	Ca_kabuli_chr03	17034444	TT	GG	1946773575
SNP_P4_31170_17034515	NC_021162.1	Ca_kabuli_chr03	17034515	AA	GG	1946773577
SNP_P4_31171_17035050	NC_021162.1	Ca_kabuli_chr03	17035050	AA	GG	1946773579
SNP_P4_31172_17035357	NC_021162.1	Ca_kabuli_chr03	17035357	TT	GG	1946773581
SNP_P4_31173_17035389	NC_021162.1	Ca_kabuli_chr03	17035389	GG	TT	1946773583
SNP_P4_31174_17039093	NC_021162.1	Ca_kabuli_chr03	17039093	AA	GG	1946773585
SNP_P4_31175_17039154	NC_021162.1	Ca_kabuli_chr03	17039154	TT	AA	1946773587
SNP_P4_31176_17039230	NC_021162.1	Ca_kabuli_chr03	17039230	TT	CC	1946773589
SNP_P4_31178_17039333	NC_021162.1	Ca_kabuli_chr03	17039333	AA	GG	1946773591
SNP_P4_31179_17039363	NC_021162.1	Ca_kabuli_chr03	17039363	AA	CC	1946773593
SNP_P4_31180_17039364	NC_021162.1	Ca_kabuli_chr03	17039364	CC	TT	1946773595

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_31183_17128186	NC_021162.1	Ca_kabuli_chr03	17128186	GG	AA	1946773600
SNP_P4_31185_17138004	NC_021162.1	Ca_kabuli_chr03	17138004	TT	GG	1946773602
SNP_P4_31186_17138043	NC_021162.1	Ca_kabuli_chr03	17138043	AA	GG	1946773604
SNP_P4_31187_17138055	NC_021162.1	Ca_kabuli_chr03	17138055	CC	TT	1946773606
SNP_P4_31188_17138080	NC_021162.1	Ca_kabuli_chr03	17138080	AA	CC	1946773608
SNP_P4_31189_17138148	NC_021162.1	Ca_kabuli_chr03	17138148	GG	AA	1946773610
SNP_P4_31190_17138417	NC_021162.1	Ca_kabuli_chr03	17138417	AA	CC	1946773612
SNP_P4_31191_17138428	NC_021162.1	Ca_kabuli_chr03	17138428	TT	CC	1946773614
SNP_P4_31192_17138524	NC_021162.1	Ca_kabuli_chr03	17138524	CC	GG	1946773617
SNP_P4_31193_17138553	NC_021162.1	Ca_kabuli_chr03	17138553	CC	TT	1946773619
SNP_P4_31194_17138595	NC_021162.1	Ca_kabuli_chr03	17138595	TT	CC	1946773621
SNP_P4_31195_17167267	NC_021162.1	Ca_kabuli_chr03	17167267	AA	GG	1946773623
SNP_P4_31196_17167309	NC_021162.1	Ca_kabuli_chr03	17167309	GG	TT	1946773625
SNP_P4_31197_17167321	NC_021162.1	Ca_kabuli_chr03	17167321	GG	AA	1946773627
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SNP_P4_31200_17169444	NC_021162.1	Ca_kabuli_chr03	17169444	AA	GG	1946773633
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SNP_P4_31207_17217978	NC_021162.1	Ca_kabuli_chr03	17217978	AA	GG	1946773640
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SNP_P4_31211_17222126	NC_021162.1	Ca_kabuli_chr03	17222126	TT	AA	1946773649
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SNP_P4_31213_17223743	NC_021162.1	Ca_kabuli_chr03	17223743	CC	TT	1946773653
SNP_P4_31214_17225519	NC_021162.1	Ca_kabuli_chr03	17225519	GG	TT	1946773655
SNP_P4_31215_17277490	NC_021162.1	Ca_kabuli_chr03	17277490	CC	GG	1946773657
SNP_P4_31216_17277491	NC_021162.1	Ca_kabuli_chr03	17277491	AA	TT	1946773659
SNP_P4_31218_17325491	NC_021162.1	Ca_kabuli_chr03	17325491	TT	CC	1946773661
SNP_P4_31219_17327006	NC_021162.1	Ca_kabuli_chr03	17327006	TT	AA	1946773663
SNP_P4_31220_17353994	NC_021162.1	Ca_kabuli_chr03	17353994	TT	AA	1946773665
SNP_P4_31221_17354023	NC_021162.1	Ca_kabuli_chr03	17354023	TT	GG	1946773667
SNP_P4_31222_17375341	NC_021162.1	Ca_kabuli_chr03	17375341	CC	AA	1946773669
SNP_P4_31224_17420634	NC_021162.1	Ca_kabuli_chr03	17420634	AA	GG	1946773671
SNP_P4_31225_17436864	NC_021162.1	Ca_kabuli_chr03	17436864	CC	TT	1946773673
SNP_P4_31226_17440744	NC_021162.1	Ca_kabuli_chr03	17440744	GG	AA	1946773675
SNP_P4_31227_17440892	NC_021162.1	Ca_kabuli_chr03	17440892	AA	TT	1946773677
SNP_P4_31229_17486300	NC_021162.1	Ca_kabuli_chr03	17486300	TT	AA	1946773679

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_31233_17491908	NC_021162.1	Ca_kabuli_chr03	17491908	AA	GG	1946773685
SNP_P4_31234_17491909	NC_021162.1	Ca_kabuli_chr03	17491909	AA	TT	1946773687
SNP_P4_31235_17491910	NC_021162.1	Ca_kabuli_chr03	17491910	AA	TT	1946773689
SNP_P4_31236_17491911	NC_021162.1	Ca_kabuli_chr03	17491911	AA	TT	1946773691
SNP_P4_31237_17491912	NC_021162.1	Ca_kabuli_chr03	17491912	AA	TT	1946773693
SNP_P4_31238_17491928	NC_021162.1	Ca_kabuli_chr03	17491928	AA	GG	1946773695
SNP_P4_31239_17492106	NC_021162.1	Ca_kabuli_chr03	17492106	TT	CC	1946773697
SNP_P4_31240_17492210	NC_021162.1	Ca_kabuli_chr03	17492210	TT	AA	1946773699
SNP_P4_31241_17492211	NC_021162.1	Ca_kabuli_chr03	17492211	CC	TT	1946773701
SNP_P4_31242_17492411	NC_021162.1	Ca_kabuli_chr03	17492411	GG	AA	1946773703
SNP_P4_31243_17498882	NC_021162.1	Ca_kabuli_chr03	17498882	AA	CC	1946773705
SNP_P4_31244_17498966	NC_021162.1	Ca_kabuli_chr03	17498966	CC	TT	1946773707
SNP_P4_31245_17498989	NC_021162.1	Ca_kabuli_chr03	17498989	CC	TT	1946773709
SNP_P4_31246_17499157	NC_021162.1	Ca_kabuli_chr03	17499157	TT	GG	1946773711
SNP_P4_31247_17499178	NC_021162.1	Ca_kabuli_chr03	17499178	AA	TT	1946773713
SNP_P4_31248_17499390	NC_021162.1	Ca_kabuli_chr03	17499390	CC	TT	1946773715
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SNP_P4_31251_17505640	NC_021162.1	Ca_kabuli_chr03	17505640	CC	AA	1946773722
SNP_P4_31252_17505648	NC_021162.1	Ca_kabuli_chr03	17505648	GG	CC	1946773724
SNP_P4_31253_17505684	NC_021162.1	Ca_kabuli_chr03	17505684	GG	AA	1946773726
SNP_P4_31254_17505685	NC_021162.1	Ca_kabuli_chr03	17505685	GG	TT	1946773728
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SNP_P4_31260_17506070	NC_021162.1	Ca_kabuli_chr03	17506070	CC	AA	1946773740
SNP_P4_31261_17506140	NC_021162.1	Ca_kabuli_chr03	17506140	TT	CC	1946773742
SNP_P4_31262_17506405	NC_021162.1	Ca_kabuli_chr03	17506405	AA	CC	1946773744
SNP_P4_31263_17506610	NC_021162.1	Ca_kabuli_chr03	17506610	AA	GG	1946773746
SNP_P4_31264_17506775	NC_021162.1	Ca_kabuli_chr03	17506775	CC	AA	1946773748
SNP_P4_31265_17506908	NC_021162.1	Ca_kabuli_chr03	17506908	TT	CC	1946773750
SNP_P4_31266_17506937	NC_021162.1	Ca_kabuli_chr03	17506937	CC	TT	1946773753
SNP_P4_31267_17507151	NC_021162.1	Ca_kabuli_chr03	17507151	GG	AA	1946773755
SNP_P4_31268_17507260	NC_021162.1	Ca_kabuli_chr03	17507260	CC	TT	1946773757
SNP_P4_31270_17508151	NC_021162.1	Ca_kabuli_chr03	17508151	CC	GG	1946773759
SNP_P4_31271_17508815	NC_021162.1	Ca_kabuli_chr03	17508815	CC	TT	1946773761
SNP_P4_31272_17509509	NC_021162.1	Ca_kabuli_chr03	17509509	CC	AA	1946773763
SNP_P4_31273_17513411	NC_021162.1	Ca_kabuli_chr03	17513411	AA	TT	1946773765

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_31275_17571290	NC_021162.1	Ca_kabuli_chr03	17571290	AA	CC	1946773769
SNP_P4_31276_17571291	NC_021162.1	Ca_kabuli_chr03	17571291	AA	CC	1946773771
SNP_P4_31277_17580028	NC_021162.1	Ca_kabuli_chr03	17580028	GG	AA	1946773773
SNP_P4_31278_17580757	NC_021162.1	Ca_kabuli_chr03	17580757	GG	AA	1946773775
SNP_P4_31279_17601003	NC_021162.1	Ca_kabuli_chr03	17601003	GG	TT	1946773777
SNP_P4_31280_17601044	NC_021162.1	Ca_kabuli_chr03	17601044	TT	CC	1946773779
SNP_P4_31281_17601110	NC_021162.1	Ca_kabuli_chr03	17601110	TT	CC	1946773781
SNP_P4_31282_17601112	NC_021162.1	Ca_kabuli_chr03	17601112	TT	CC	1946773783
SNP_P4_31283_17601180	NC_021162.1	Ca_kabuli_chr03	17601180	AA	GG	1946773785
SNP_P4_31284_17601225	NC_021162.1	Ca_kabuli_chr03	17601225	GG	AA	1946773787
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SNP_P4_31286_17601370	NC_021162.1	Ca_kabuli_chr03	17601370	TT	CC	1946773792
SNP_P4_31287_17601444	NC_021162.1	Ca_kabuli_chr03	17601444	AA	GG	1946773794
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SNP_P4_31291_17679205	NC_021162.1	Ca_kabuli_chr03	17679205	TT	GG	1946773802
SNP_P4_31292_17679228	NC_021162.1	Ca_kabuli_chr03	17679228	AA	GG	1946773804
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SNP_P4_31294_17681533	NC_021162.1	Ca_kabuli_chr03	17681533	CC	GG	1946773808
SNP_P4_31295_17681560	NC_021162.1	Ca_kabuli_chr03	17681560	TT	AA	1946773810
SNP_P4_31296_17683944	NC_021162.1	Ca_kabuli_chr03	17683944	GG	TT	1946773812
SNP_P4_31299_17714663	NC_021162.1	Ca_kabuli_chr03	17714663	AA	CC	1946773814
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SNP_P4_31302_17752859	NC_021162.1	Ca_kabuli_chr03	17752859	AA	GG	1946773819
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SNP_P4_31310_17756200	NC_021162.1	Ca_kabuli_chr03	17756200	CC	TT	1946773835
SNP_P4_31311_17756242	NC_021162.1	Ca_kabuli_chr03	17756242	TT	CC	1946773838
SNP_P4_31312_17756254	NC_021162.1	Ca_kabuli_chr03	17756254	CC	TT	1946773840
SNP_P4_31313_17756258	NC_021162.1	Ca_kabuli_chr03	17756258	AA	GG	1946773842
SNP_P4_31314_17756262	NC_021162.1	Ca_kabuli_chr03	17756262	CC	TT	1946773844
SNP_P4_31315_17756292	NC_021162.1	Ca_kabuli_chr03	17756292	TT	CC	1946773846
SNP_P4_31316_17756301	NC_021162.1	Ca_kabuli_chr03	17756301	TT	CC	1946773848
SNP_P4_31317_17756312	NC_021162.1	Ca_kabuli_chr03	17756312	CC	TT	1946773850
SNP_P4_31318_17756346	NC_021162.1	Ca_kabuli_chr03	17756346	CC	TT	1946773852

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_31321_17756470	NC_021162.1	Ca_kabuli_chr03	17756470	CC	TT	1946773859
SNP_P4_31322_17756522	NC_021162.1	Ca_kabuli_chr03	17756522	GG	TT	1946773861
SNP_P4_31323_17756574	NC_021162.1	Ca_kabuli_chr03	17756574	AA	GG	1946773863
SNP_P4_31324_17756717	NC_021162.1	Ca_kabuli_chr03	17756717	TT	CC	1946773866
SNP_P4_31325_17757593	NC_021162.1	Ca_kabuli_chr03	17757593	GG	AA	1946773868
SNP_P4_31326_17759424	NC_021162.1	Ca_kabuli_chr03	17759424	GG	AA	1946773870
SNP_P4_31327_17761126	NC_021162.1	Ca_kabuli_chr03	17761126	AA	TT	1946773872
SNP_P4_31329_17798535	NC_021162.1	Ca_kabuli_chr03	17798535	TT	AA	1946773874
SNP_P4_31330_17805415	NC_021162.1	Ca_kabuli_chr03	17805415	AA	GG	1946773877
SNP_P4_31331_17805470	NC_021162.1	Ca_kabuli_chr03	17805470	GG	AA	1946773879
SNP_P4_31333_17849241	NC_021162.1	Ca_kabuli_chr03	17849241	GG	AA	1946773881
SNP_P4_31334_17849246	NC_021162.1	Ca_kabuli_chr03	17849246	CC	GG	1946773883
SNP_P4_31335_17849289	NC_021162.1	Ca_kabuli_chr03	17849289	AA	TT	1946773885
SNP_P4_31336_17874816	NC_021162.1	Ca_kabuli_chr03	17874816	GG	TT	1946773887
SNP_P4_31337_17874825	NC_021162.1	Ca_kabuli_chr03	17874825	CC	AA	1946773890
SNP_P4_31338_17874895	NC_021162.1	Ca_kabuli_chr03	17874895	TT	CC	1946773892
SNP_P4_31339_17941532	NC_021162.1	Ca_kabuli_chr03	17941532	AA	GG	1946773894
SNP_P4_31340_17941602	NC_021162.1	Ca_kabuli_chr03	17941602	CC	TT	1946773896
SNP_P4_31341_17941729	NC_021162.1	Ca_kabuli_chr03	17941729	TT	CC	1946773898
SNP_P4_31342_17942935	NC_021162.1	Ca_kabuli_chr03	17942935	TT	CC	1946773900
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SNP_P4_31350_18019089	NC_021162.1	Ca_kabuli_chr03	18019089	AA	CC	1946773913
SNP_P4_31351_18019101	NC_021162.1	Ca_kabuli_chr03	18019101	AA	GG	1946773914
SNP_P4_31352_18019102	NC_021162.1	Ca_kabuli_chr03	18019102	TT	CC	1946773915
SNP_P4_31353_18020762	NC_021162.1	Ca_kabuli_chr03	18020762	AA	GG	1946773916
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SNP_P4_31355_18048501	NC_021162.1	Ca_kabuli_chr03	18048501	AA	TT	1946773921
SNP_P4_31356_18062393	NC_021162.1	Ca_kabuli_chr03	18062393	GG	AA	1946773923
SNP_P4_31357_18062402	NC_021162.1	Ca_kabuli_chr03	18062402	GG	CC	1946773925
SNP_P4_31358_18071959	NC_021162.1	Ca_kabuli_chr03	18071959	GG	TT	1946773927
SNP_P4_31359_18088384	NC_021162.1	Ca_kabuli_chr03	18088384	GG	CC	1946773929
SNP_P4_31361_18093668	NC_021162.1	Ca_kabuli_chr03	18093668	CC	TT	1946773931
SNP_P4_31362_18094185	NC_021162.1	Ca_kabuli_chr03	18094185	TT	GG	1946773934
SNP_P4_31363_18094246	NC_021162.1	Ca_kabuli_chr03	18094246	CC	AA	1946773936
SNP_P4_31364_18094538	NC_021162.1	Ca_kabuli_chr03	18094538	TT	CC	1946773939

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_31368_18128918	NC_021162.1	Ca_kabuli_chr03	18128918	AA	GG	1946773945
SNP_P4_31369_18129265	NC_021162.1	Ca_kabuli_chr03	18129265	TT	AA	1946773947
SNP_P4_31370_18133205	NC_021162.1	Ca_kabuli_chr03	18133205	GG	AA	1946773949
SNP_P4_31371_18133220	NC_021162.1	Ca_kabuli_chr03	18133220	GG	AA	1946773952
SNP_P4_31372_18133243	NC_021162.1	Ca_kabuli_chr03	18133243	GG	AA	1946773954
SNP_P4_31373_18133287	NC_021162.1	Ca_kabuli_chr03	18133287	GG	AA	1946773956
SNP_P4_31374_18145571	NC_021162.1	Ca_kabuli_chr03	18145571	TT	CC	1946773958
SNP_P4_31375_18150506	NC_021162.1	Ca_kabuli_chr03	18150506	AA	CC	1946773960
SNP_P4_31376_18170547	NC_021162.1	Ca_kabuli_chr03	18170547	AA	GG	1946773962
SNP_P4_31377_18170562	NC_021162.1	Ca_kabuli_chr03	18170562	TT	CC	1946773965
SNP_P4_31378_18170749	NC_021162.1	Ca_kabuli_chr03	18170749	GG	CC	1946773967
SNP_P4_31379_18170780	NC_021162.1	Ca_kabuli_chr03	18170780	AA	GG	1946773969
SNP_P4_31380_18173334	NC_021162.1	Ca_kabuli_chr03	18173334	TT	CC	1946773971
SNP_P4_31381_18173347	NC_021162.1	Ca_kabuli_chr03	18173347	AA	GG	1946773973
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SNP_P4_31387_18174239	NC_021162.1	Ca_kabuli_chr03	18174239	TT	CC	1946773986
SNP_P4_31388_18178781	NC_021162.1	Ca_kabuli_chr03	18178781	TT	CC	1946773988
SNP_P4_31389_18178797	NC_021162.1	Ca_kabuli_chr03	18178797	GG	AA	1946773990
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SNP_P4_31392_18179109	NC_021162.1	Ca_kabuli_chr03	18179109	AA	GG	1946773996
SNP_P4_31393_18179312	NC_021162.1	Ca_kabuli_chr03	18179312	CC	AA	1946773998
SNP_P4_31394_18189811	NC_021162.1	Ca_kabuli_chr03	18189811	GG	AA	1946774001
SNP_P4_31395_18190083	NC_021162.1	Ca_kabuli_chr03	18190083	TT	CC	1946774003
SNP_P4_31396_18190090	NC_021162.1	Ca_kabuli_chr03	18190090	TT	AA	1946774005
SNP_P4_31397_18190097	NC_021162.1	Ca_kabuli_chr03	18190097	CC	TT	1946774007
SNP_P4_31398_18190147	NC_021162.1	Ca_kabuli_chr03	18190147	CC	TT	1946774009
SNP_P4_31399_18190169	NC_021162.1	Ca_kabuli_chr03	18190169	TT	CC	1946774011
SNP_P4_31400_18190286	NC_021162.1	Ca_kabuli_chr03	18190286	GG	AA	1946774013
SNP_P4_31401_18190333	NC_021162.1	Ca_kabuli_chr03	18190333	TT	GG	1946774015
SNP_P4_31402_18190367	NC_021162.1	Ca_kabuli_chr03	18190367	AA	GG	1946774017
SNP_P4_31403_18190399	NC_021162.1	Ca_kabuli_chr03	18190399	GG	AA	1946774019
SNP_P4_31404_18190624	NC_021162.1	Ca_kabuli_chr03	18190624	TT	AA	1946774021
SNP_P4_31405_18190635	NC_021162.1	Ca_kabuli_chr03	18190635	AA	CC	1946774024
SNP_P4_31406_18190981	NC_021162.1	Ca_kabuli_chr03	18190981	TT	GG	1946774026
SNP_P4_31407_18191035	NC_021162.1	Ca_kabuli_chr03	18191035	AA	GG	1946774028

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_31409_18191090	NC_021162.1	Ca_kabuli_chr03	18191090	AA	TT	1946774032
SNP_P4_31410_18191095	NC_021162.1	Ca_kabuli_chr03	18191095	TT	AA	1946774034
SNP_P4_31411_18191101	NC_021162.1	Ca_kabuli_chr03	18191101	CC	TT	1946774036
SNP_P4_31412_18191128	NC_021162.1	Ca_kabuli_chr03	18191128	CC	TT	1946774038
SNP_P4_31413_18191136	NC_021162.1	Ca_kabuli_chr03	18191136	CC	TT	1946774040
SNP_P4_31414_18191433	NC_021162.1	Ca_kabuli_chr03	18191433	AA	GG	1946774043
SNP_P4_31415_18191528	NC_021162.1	Ca_kabuli_chr03	18191528	TT	CC	1946774045
SNP_P4_31416_18191540	NC_021162.1	Ca_kabuli_chr03	18191540	GG	TT	1946774047
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SNP_P4_31418_18196771	NC_021162.1	Ca_kabuli_chr03	18196771	TT	GG	1946774051
SNP_P4_31419_18197007	NC_021162.1	Ca_kabuli_chr03	18197007	AA	GG	1946774053
SNP_P4_31420_18197026	NC_021162.1	Ca_kabuli_chr03	18197026	CC	TT	1946774055
SNP_P4_31421_18197111	NC_021162.1	Ca_kabuli_chr03	18197111	CC	TT	1946774057
SNP_P4_31422_18197121	NC_021162.1	Ca_kabuli_chr03	18197121	TT	CC	1946774059
SNP_P4_31423_18241499	NC_021162.1	Ca_kabuli_chr03	18241499	TT	CC	1946774061
SNP_P4_31424_18249302	NC_021162.1	Ca_kabuli_chr03	18249302	CC	TT	1946774063
SNP_P4_31426_18253227	NC_021162.1	Ca_kabuli_chr03	18253227	AA	GG	1946774065
SNP_P4_31427_18253280	NC_021162.1	Ca_kabuli_chr03	18253280	CC	TT	1946774067
SNP_P4_31428_18253490	NC_021162.1	Ca_kabuli_chr03	18253490	GG	AA	1946774070
SNP_P4_31430_18272689	NC_021162.1	Ca_kabuli_chr03	18272689	AA	CC	1946774072
SNP_P4_31431_18272752	NC_021162.1	Ca_kabuli_chr03	18272752	CC	TT	1946774074
SNP_P4_31432_18272767	NC_021162.1	Ca_kabuli_chr03	18272767	TT	CC	1946774076
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SNP_P4_31439_18348316	NC_021162.1	Ca_kabuli_chr03	18348316	CC	TT	1946774088
SNP_P4_31440_18359624	NC_021162.1	Ca_kabuli_chr03	18359624	CC	AA	1946774090
SNP_P4_31442_18362087	NC_021162.1	Ca_kabuli_chr03	18362087	AA	TT	1946774093
SNP_P4_31443_18370435	NC_021162.1	Ca_kabuli_chr03	18370435	TT	CC	1946774095
SNP_P4_31444_18380484	NC_021162.1	Ca_kabuli_chr03	18380484	AA	GG	1946774097
SNP_P4_31445_18380486	NC_021162.1	Ca_kabuli_chr03	18380486	AA	GG	1946774099
SNP_P4_31446_18434851	NC_021162.1	Ca_kabuli_chr03	18434851	AA	GG	1946774101
SNP_P4_31447_18435140	NC_021162.1	Ca_kabuli_chr03	18435140	AA	GG	1946774103
SNP_P4_31448_18435159	NC_021162.1	Ca_kabuli_chr03	18435159	GG	AA	1946774105
SNP_P4_31449_18435196	NC_021162.1	Ca_kabuli_chr03	18435196	TT	GG	1946774107
SNP_P4_31450_18435210	NC_021162.1	Ca_kabuli_chr03	18435210	TT	CC	1946774109
SNP_P4_31451_18435216	NC_021162.1	Ca_kabuli_chr03	18435216	CC	TT	1946774112
SNP_P4_31452_18435952	NC_021162.1	Ca_kabuli_chr03	18435952	AA	GG	1946774114
SNP_P4_31453_18440194	NC_021162.1	Ca_kabuli_chr03	18440194	GG	CC	1946774116

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_31457_18553968	NC_021162.1	Ca_kabuli_chr03	18553968	AA	CC	1946774122
SNP_P4_31458_18566027	NC_021162.1	Ca_kabuli_chr03	18566027	GG	TT	1946774124
SNP_P4_31459_18574549	NC_021162.1	Ca_kabuli_chr03	18574549	GG	AA	1946774126
SNP_P4_31460_18606513	NC_021162.1	Ca_kabuli_chr03	18606513	AA	GG	1946774128
SNP_P4_31461_18610486	NC_021162.1	Ca_kabuli_chr03	18610486	CC	AA	1946774131
SNP_P4_31464_18670501	NC_021162.1	Ca_kabuli_chr03	18670501	CC	TT	1946774133
SNP_P4_31465_18670519	NC_021162.1	Ca_kabuli_chr03	18670519	TT	GG	1946774135
SNP_P4_31466_18670826	NC_021162.1	Ca_kabuli_chr03	18670826	CC	TT	1946774137
SNP_P4_31467_18674438	NC_021162.1	Ca_kabuli_chr03	18674438	GG	AA	1946774139
SNP_P4_31468_18713532	NC_021162.1	Ca_kabuli_chr03	18713532	AA	TT	1946774141
SNP_P4_31469_18713546	NC_021162.1	Ca_kabuli_chr03	18713546	TT	GG	1946774143
SNP_P4_31470_18713753	NC_021162.1	Ca_kabuli_chr03	18713753	AA	GG	1946774145
SNP_P4_31471_18746155	NC_021162.1	Ca_kabuli_chr03	18746155	GG	AA	1946774147
SNP_P4_31472_18746196	NC_021162.1	Ca_kabuli_chr03	18746196	CC	TT	1946774149
SNP_P4_31473_18755322	NC_021162.1	Ca_kabuli_chr03	18755322	AA	TT	1946774151
SNP_P4_31474_18755323	NC_021162.1	Ca_kabuli_chr03	18755323	TT	GG	1946774153
SNP_P4_31475_18755337	NC_021162.1	Ca_kabuli_chr03	18755337	TT	CC	1946774155
SNP_P4_31476_18794225	NC_021162.1	Ca_kabuli_chr03	18794225	GG	CC	1946774157
SNP_P4_31477_18798934	NC_021162.1	Ca_kabuli_chr03	18798934	CC	TT	1946774159
SNP_P4_31478_18799413	NC_021162.1	Ca_kabuli_chr03	18799413	GG	AA	1946774161
SNP_P4_31479_18852234	NC_021162.1	Ca_kabuli_chr03	18852234	AA	CC	1946774163
SNP_P4_31480_18862509	NC_021162.1	Ca_kabuli_chr03	18862509	TT	CC	1946774165
SNP_P4_31481_18863957	NC_021162.1	Ca_kabuli_chr03	18863957	TT	GG	1946774167
SNP_P4_31482_18864050	NC_021162.1	Ca_kabuli_chr03	18864050	TT	AA	1946774169
SNP_P4_31483_18864515	NC_021162.1	Ca_kabuli_chr03	18864515	AA	CC	1946774172
SNP_P4_31484_18866421	NC_021162.1	Ca_kabuli_chr03	18866421	AA	CC	1946774174
SNP_P4_31485_18915019	NC_021162.1	Ca_kabuli_chr03	18915019	CC	TT	1946774176
SNP_P4_31486_18920173	NC_021162.1	Ca_kabuli_chr03	18920173	CC	GG	1946774178
SNP_P4_31487_18942695	NC_021162.1	Ca_kabuli_chr03	18942695	AA	GG	1946774180
SNP_P4_31488_18943101	NC_021162.1	Ca_kabuli_chr03	18943101	TT	CC	1946774182
SNP_P4_31489_18943103	NC_021162.1	Ca_kabuli_chr03	18943103	GG	TT	1946774185
SNP_P4_31491_18943247	NC_021162.1	Ca_kabuli_chr03	18943247	AA	TT	1946774187
SNP_P4_31492_18972596	NC_021162.1	Ca_kabuli_chr03	18972596	AA	GG	1946774189
SNP_P4_31493_18972619	NC_021162.1	Ca_kabuli_chr03	18972619	CC	TT	1946774191
SNP_P4_31494_18972664	NC_021162.1	Ca_kabuli_chr03	18972664	TT	CC	1946774193
SNP_P4_31495_18993015	NC_021162.1	Ca_kabuli_chr03	18993015	AA	GG	1946774195
SNP_P4_31496_18993035	NC_021162.1	Ca_kabuli_chr03	18993035	TT	GG	1946774197
SNP_P4_31497_19007108	NC_021162.1	Ca_kabuli_chr03	19007108	TT	GG	1946774199
SNP_P4_31498_19007189	NC_021162.1	Ca_kabuli_chr03	19007189	AA	CC	1946774201
SNP_P4_31499_19007191	NC_021162.1	Ca_kabuli_chr03	19007191	TT	CC	1946774203

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_31502_19010213	NC_021162.1	Ca_kabuli_chr03	19010213	TT	AA	1946774209
SNP_P4_31504_19016197	NC_021162.1	Ca_kabuli_chr03	19016197	AA	TT	1946774211
SNP_P4_31505_19016198	NC_021162.1	Ca_kabuli_chr03	19016198	AA	CC	1946774213
SNP_P4_31506_19030645	NC_021162.1	Ca_kabuli_chr03	19030645	CC	TT	1946774215
SNP_P4_31509_19063185	NC_021162.1	Ca_kabuli_chr03	19063185	CC	TT	1946774217
SNP_P4_31510_19063194	NC_021162.1	Ca_kabuli_chr03	19063194	CC	TT	1946774219
SNP_P4_31511_19063585	NC_021162.1	Ca_kabuli_chr03	19063585	TT	CC	1946774221
SNP_P4_31512_19075715	NC_021162.1	Ca_kabuli_chr03	19075715	CC	TT	1946774223
SNP_P4_31513_19087053	NC_021162.1	Ca_kabuli_chr03	19087053	CC	AA	1946774225
SNP_P4_31514_19087069	NC_021162.1	Ca_kabuli_chr03	19087069	TT	CC	1946774227
SNP_P4_31515_19089012	NC_021162.1	Ca_kabuli_chr03	19089012	CC	AA	1946774229
SNP_P4_31517_19089346	NC_021162.1	Ca_kabuli_chr03	19089346	TT	CC	1946774231
SNP_P4_31518_19089417	NC_021162.1	Ca_kabuli_chr03	19089417	TT	CC	1946774234
SNP_P4_31519_19089456	NC_021162.1	Ca_kabuli_chr03	19089456	TT	GG	1946774236
SNP_P4_31520_19089483	NC_021162.1	Ca_kabuli_chr03	19089483	AA	GG	1946774238
SNP_P4_31521_19089496	NC_021162.1	Ca_kabuli_chr03	19089496	TT	CC	1946774240
SNP_P4_31522_19089515	NC_021162.1	Ca_kabuli_chr03	19089515	GG	AA	1946774242
SNP_P4_31526_19148024	NC_021162.1	Ca_kabuli_chr03	19148024	AA	TT	1946774244
SNP_P4_31527_19148778	NC_021162.1	Ca_kabuli_chr03	19148778	GG	AA	1946774246
SNP_P4_31528_19164903	NC_021162.1	Ca_kabuli_chr03	19164903	AA	GG	1946774248
SNP_P4_31529_19196345	NC_021162.1	Ca_kabuli_chr03	19196345	CC	TT	1946774251
SNP_P4_31530_19196406	NC_021162.1	Ca_kabuli_chr03	19196406	CC	TT	1946774253
SNP_P4_31531_19196511	NC_021162.1	Ca_kabuli_chr03	19196511	AA	TT	1946774255
SNP_P4_31532_19196834	NC_021162.1	Ca_kabuli_chr03	19196834	AA	CC	1946774257
SNP_P4_31533_19196883	NC_021162.1	Ca_kabuli_chr03	19196883	TT	CC	1946774259
SNP_P4_31534_19198551	NC_021162.1	Ca_kabuli_chr03	19198551	GG	AA	1946774261
SNP_P4_31535_19198639	NC_021162.1	Ca_kabuli_chr03	19198639	TT	GG	1946774263
SNP_P4_31536_19198654	NC_021162.1	Ca_kabuli_chr03	19198654	TT	CC	1946774265
SNP_P4_31538_19198771	NC_021162.1	Ca_kabuli_chr03	19198771	TT	CC	1946774267
SNP_P4_31539_19198864	NC_021162.1	Ca_kabuli_chr03	19198864	TT	CC	1946774269
SNP_P4_31540_19198896	NC_021162.1	Ca_kabuli_chr03	19198896	TT	CC	1946774271
SNP_P4_31541_19198953	NC_021162.1	Ca_kabuli_chr03	19198953	TT	CC	1946774273
SNP_P4_31542_19198990	NC_021162.1	Ca_kabuli_chr03	19198990	TT	GG	1946774275
SNP_P4_31543_19199019	NC_021162.1	Ca_kabuli_chr03	19199019	AA	CC	1946774277
SNP_P4_31544_19199038	NC_021162.1	Ca_kabuli_chr03	19199038	TT	CC	1946774279
SNP_P4_31545_19230357	NC_021162.1	Ca_kabuli_chr03	19230357	AA	GG	1946774281
SNP_P4_31546_19230665	NC_021162.1	Ca_kabuli_chr03	19230665	CC	TT	1946774283
SNP_P4_31550_19347444	NC_021162.1	Ca_kabuli_chr03	19347444	CC	TT	1946774286
SNP_P4_31551_19357223	NC_021162.1	Ca_kabuli_chr03	19357223	CC	GG	1946774288
SNP_P4_31552_19357318	NC_021162.1	Ca_kabuli_chr03	19357318	AA	GG	1946774290

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_31554_19357487	NC_021162.1	Ca_kabuli_chr03	19357487	CC	AA	1946774294
SNP_P4_31555_19357545	NC_021162.1	Ca_kabuli_chr03	19357545	AA	TT	1946774296
SNP_P4_31556_19357549	NC_021162.1	Ca_kabuli_chr03	19357549	TT	CC	1946774298
SNP_P4_31557_19357721	NC_021162.1	Ca_kabuli_chr03	19357721	CC	AA	1946774300
SNP_P4_31558_19357783	NC_021162.1	Ca_kabuli_chr03	19357783	TT	AA	1946774302
SNP_P4_31559_19357788	NC_021162.1	Ca_kabuli_chr03	19357788	CC	TT	1946774304
SNP_P4_31560_19357930	NC_021162.1	Ca_kabuli_chr03	19357930	CC	TT	1946774306
SNP_P4_31561_19357972	NC_021162.1	Ca_kabuli_chr03	19357972	TT	CC	1946774309
SNP_P4_31562_19358021	NC_021162.1	Ca_kabuli_chr03	19358021	CC	TT	1946774311
SNP_P4_31563_19358108	NC_021162.1	Ca_kabuli_chr03	19358108	AA	GG	1946774313
SNP_P4_31564_19358186	NC_021162.1	Ca_kabuli_chr03	19358186	AA	GG	1946774315
SNP_P4_31565_19358343	NC_021162.1	Ca_kabuli_chr03	19358343	CC	TT	1946774317
SNP_P4_31566_19358347	NC_021162.1	Ca_kabuli_chr03	19358347	TT	CC	1946774319
SNP_P4_31567_19358380	NC_021162.1	Ca_kabuli_chr03	19358380	CC	AA	1946774321
SNP_P4_31568_19358410	NC_021162.1	Ca_kabuli_chr03	19358410	GG	CC	1946774324
SNP_P4_31569_19358422	NC_021162.1	Ca_kabuli_chr03	19358422	AA	CC	1946774326
SNP_P4_31570_19358678	NC_021162.1	Ca_kabuli_chr03	19358678	GG	AA	1946774328
SNP_P4_31571_19358710	NC_021162.1	Ca_kabuli_chr03	19358710	CC	TT	1946774330
SNP_P4_31572_19358718	NC_021162.1	Ca_kabuli_chr03	19358718	GG	AA	1946774332
SNP_P4_31573_19358734	NC_021162.1	Ca_kabuli_chr03	19358734	CC	TT	1946774335
SNP_P4_31574_19358834	NC_021162.1	Ca_kabuli_chr03	19358834	CC	AA	1946774337
SNP_P4_31575_19358877	NC_021162.1	Ca_kabuli_chr03	19358877	CC	GG	1946774339
SNP_P4_31576_19358880	NC_021162.1	Ca_kabuli_chr03	19358880	TT	CC	1946774341
SNP_P4_31577_19358954	NC_021162.1	Ca_kabuli_chr03	19358954	AA	TT	1946774343
SNP_P4_31578_19358967	NC_021162.1	Ca_kabuli_chr03	19358967	GG	AA	1946774345
SNP_P4_31579_19358993	NC_021162.1	Ca_kabuli_chr03	19358993	AA	GG	1946774347
SNP_P4_31581_19359053	NC_021162.1	Ca_kabuli_chr03	19359053	GG	AA	1946774349
SNP_P4_31582_19359111	NC_021162.1	Ca_kabuli_chr03	19359111	CC	TT	1946774351
SNP_P4_31583_19359147	NC_021162.1	Ca_kabuli_chr03	19359147	GG	CC	1946774353
SNP_P4_31584_19359151	NC_021162.1	Ca_kabuli_chr03	19359151	GG	CC	1946774356
SNP_P4_31585_19359153	NC_021162.1	Ca_kabuli_chr03	19359153	GG	TT	1946774358
SNP_P4_31586_19359188	NC_021162.1	Ca_kabuli_chr03	19359188	CC	TT	1946774360
SNP_P4_31587_19359189	NC_021162.1	Ca_kabuli_chr03	19359189	TT	GG	1946774362
SNP_P4_31588_19359254	NC_021162.1	Ca_kabuli_chr03	19359254	AA	GG	1946774364
SNP_P4_31589_19359309	NC_021162.1	Ca_kabuli_chr03	19359309	AA	TT	1946774366
SNP_P4_31590_19359310	NC_021162.1	Ca_kabuli_chr03	19359310	GG	CC	1946774368
SNP_P4_31592_19359455	NC_021162.1	Ca_kabuli_chr03	19359455	AA	TT	1946774371
SNP_P4_31593_19359494	NC_021162.1	Ca_kabuli_chr03	19359494	CC	TT	1946774373
SNP_P4_31594_19359510	NC_021162.1	Ca_kabuli_chr03	19359510	AA	GG	1946774375
SNP_P4_31595_19359522	NC_021162.1	Ca_kabuli_chr03	19359522	CC	TT	1946774377
SNP_P4_31596_19359528	NC_021162.1	Ca_kabuli_chr03	19359528	TT	CC	1946774379

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_31598_19359557	NC_021162.1	Ca_kabuli_chr03	19359557	CC	TT	1946774383
SNP_P4_31599_19359562	NC_021162.1	Ca_kabuli_chr03	19359562	TT	CC	1946774385
SNP_P4_31600_19359576	NC_021162.1	Ca_kabuli_chr03	19359576	TT	GG	1946774387
SNP_P4_31601_19359580	NC_021162.1	Ca_kabuli_chr03	19359580	CC	TT	1946774389
SNP_P4_31602_19359641	NC_021162.1	Ca_kabuli_chr03	19359641	GG	AA	1946774391
SNP_P4_31603_19359749	NC_021162.1	Ca_kabuli_chr03	19359749	TT	CC	1946774393
SNP_P4_31604_19359834	NC_021162.1	Ca_kabuli_chr03	19359834	TT	GG	1946774395
SNP_P4_31605_19359992	NC_021162.1	Ca_kabuli_chr03	19359992	CC	TT	1946774397
SNP_P4_31606_19360046	NC_021162.1	Ca_kabuli_chr03	19360046	AA	GG	1946774399
SNP_P4_31607_19360051	NC_021162.1	Ca_kabuli_chr03	19360051	TT	CC	1946774402
SNP_P4_31608_19360078	NC_021162.1	Ca_kabuli_chr03	19360078	AA	GG	1946774404
SNP_P4_31609_19360198	NC_021162.1	Ca_kabuli_chr03	19360198	AA	CC	1946774406
SNP_P4_31610_19360261	NC_021162.1	Ca_kabuli_chr03	19360261	AA	CC	1946774408
SNP_P4_31611_19360331	NC_021162.1	Ca_kabuli_chr03	19360331	GG	AA	1946774410
SNP_P4_31612_19360370	NC_021162.1	Ca_kabuli_chr03	19360370	GG	AA	1946774412
SNP_P4_31613_19360674	NC_021162.1	Ca_kabuli_chr03	19360674	AA	GG	1946774414
SNP_P4_31614_19360680	NC_021162.1	Ca_kabuli_chr03	19360680	CC	GG	1946774416
SNP_P4_31615_19360710	NC_021162.1	Ca_kabuli_chr03	19360710	GG	AA	1946774418
SNP_P4_31616_19361040	NC_021162.1	Ca_kabuli_chr03	19361040	GG	TT	1946774420
SNP_P4_31617_19361075	NC_021162.1	Ca_kabuli_chr03	19361075	AA	GG	1946774422
SNP_P4_31618_19361143	NC_021162.1	Ca_kabuli_chr03	19361143	CC	TT	1946774424
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SNP_P4_31620_19361274	NC_021162.1	Ca_kabuli_chr03	19361274	CC	TT	1946774428
SNP_P4_31621_19361361	NC_021162.1	Ca_kabuli_chr03	19361361	GG	AA	1946774430
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SNP_P4_31624_19361968	NC_021162.1	Ca_kabuli_chr03	19361968	TT	AA	1946774436
SNP_P4_31625_19362033	NC_021162.1	Ca_kabuli_chr03	19362033	TT	AA	1946774438
SNP_P4_31626_19362034	NC_021162.1	Ca_kabuli_chr03	19362034	GG	AA	1946774441
SNP_P4_31627_19362035	NC_021162.1	Ca_kabuli_chr03	19362035	CC	AA	1946774443
SNP_P4_31628_19362043	NC_021162.1	Ca_kabuli_chr03	19362043	AA	TT	1946774445
SNP_P4_31629_19362069	NC_021162.1	Ca_kabuli_chr03	19362069	TT	CC	1946774447
SNP_P4_31630_19362113	NC_021162.1	Ca_kabuli_chr03	19362113	CC	TT	1946774449
SNP_P4_31632_19366628	NC_021162.1	Ca_kabuli_chr03	19366628	TT	CC	1946774451
SNP_P4_31634_19367244	NC_021162.1	Ca_kabuli_chr03	19367244	CC	TT	1946774453
SNP_P4_31635_19367265	NC_021162.1	Ca_kabuli_chr03	19367265	GG	AA	1946774455
SNP_P4_31636_19367432	NC_021162.1	Ca_kabuli_chr03	19367432	GG	AA	1946774457
SNP_P4_31637_19367540	NC_021162.1	Ca_kabuli_chr03	19367540	AA	TT	1946774459
SNP_P4_31638_19367596	NC_021162.1	Ca_kabuli_chr03	19367596	AA	TT	1946774461
SNP_P4_31639_19367688	NC_021162.1	Ca_kabuli_chr03	19367688	AA	TT	1946774463
SNP_P4_31640_19367756	NC_021162.1	Ca_kabuli_chr03	19367756	TT	CC	1946774465

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_31642_19367904	NC_021162.1	Ca_kabuli_chr03	19367904	CC	AA	1946774470
SNP_P4_31643_19367941	NC_021162.1	Ca_kabuli_chr03	19367941	CC	TT	1946774472
SNP_P4_31644_19368421	NC_021162.1	Ca_kabuli_chr03	19368421	AA	GG	1946774474
SNP_P4_31645_19368460	NC_021162.1	Ca_kabuli_chr03	19368460	CC	AA	1946774476
SNP_P4_31646_19368514	NC_021162.1	Ca_kabuli_chr03	19368514	AA	TT	1946774478
SNP_P4_31648_19368598	NC_021162.1	Ca_kabuli_chr03	19368598	AA	GG	1946774480
SNP_P4_31649_19368724	NC_021162.1	Ca_kabuli_chr03	19368724	AA	GG	1946774482
SNP_P4_31650_19368881	NC_021162.1	Ca_kabuli_chr03	19368881	TT	AA	1946774484
SNP_P4_31651_19369150	NC_021162.1	Ca_kabuli_chr03	19369150	TT	GG	1946774486
SNP_P4_31652_19369196	NC_021162.1	Ca_kabuli_chr03	19369196	GG	AA	1946774488
SNP_P4_31653_19369312	NC_021162.1	Ca_kabuli_chr03	19369312	AA	TT	1946774490
SNP_P4_31654_19369494	NC_021162.1	Ca_kabuli_chr03	19369494	TT	CC	1946774492
SNP_P4_31656_19369587	NC_021162.1	Ca_kabuli_chr03	19369587	CC	TT	1946774495
SNP_P4_31657_19369590	NC_021162.1	Ca_kabuli_chr03	19369590	AA	CC	1946774497
SNP_P4_31658_19369627	NC_021162.1	Ca_kabuli_chr03	19369627	AA	GG	1946774499
SNP_P4_31659_19370429	NC_021162.1	Ca_kabuli_chr03	19370429	AA	CC	1946774501
SNP_P4_31660_19370503	NC_021162.1	Ca_kabuli_chr03	19370503	TT	AA	1946774503
SNP_P4_31661_19370827	NC_021162.1	Ca_kabuli_chr03	19370827	GG	AA	1946774505
SNP_P4_31662_19370857	NC_021162.1	Ca_kabuli_chr03	19370857	GG	TT	1946774507
SNP_P4_31663_19372688	NC_021162.1	Ca_kabuli_chr03	19372688	TT	CC	1946774509
SNP_P4_31664_19372850	NC_021162.1	Ca_kabuli_chr03	19372850	GG	AA	1946774511
SNP_P4_31665_19372913	NC_021162.1	Ca_kabuli_chr03	19372913	GG	AA	1946774513
SNP_P4_31666_19373146	NC_021162.1	Ca_kabuli_chr03	19373146	TT	CC	1946774515
SNP_P4_31667_19373237	NC_021162.1	Ca_kabuli_chr03	19373237	AA	TT	1946774517
SNP_P4_31668_19373371	NC_021162.1	Ca_kabuli_chr03	19373371	TT	AA	1946774519
SNP_P4_31669_19373419	NC_021162.1	Ca_kabuli_chr03	19373419	TT	CC	1946774521
SNP_P4_31670_19373527	NC_021162.1	Ca_kabuli_chr03	19373527	AA	TT	1946774523
SNP_P4_31671_19373558	NC_021162.1	Ca_kabuli_chr03	19373558	GG	AA	1946774525
SNP_P4_31672_19373579	NC_021162.1	Ca_kabuli_chr03	19373579	CC	TT	1946774527
SNP_P4_31673_19373625	NC_021162.1	Ca_kabuli_chr03	19373625	CC	AA	1946774529
SNP_P4_31674_19373629	NC_021162.1	Ca_kabuli_chr03	19373629	TT	CC	1946774531
SNP_P4_31676_19373968	NC_021162.1	Ca_kabuli_chr03	19373968	AA	GG	1946774534
SNP_P4_31677_19374000	NC_021162.1	Ca_kabuli_chr03	19374000	AA	TT	1946774536
SNP_P4_31678_19374012	NC_021162.1	Ca_kabuli_chr03	19374012	TT	CC	1946774538
SNP_P4_31679_19374013	NC_021162.1	Ca_kabuli_chr03	19374013	TT	CC	1946774540
SNP_P4_31680_19374024	NC_021162.1	Ca_kabuli_chr03	19374024	GG	TT	1946774542
SNP_P4_31681_19374038	NC_021162.1	Ca_kabuli_chr03	19374038	AA	CC	1946774544
SNP_P4_31682_19374046	NC_021162.1	Ca_kabuli_chr03	19374046	AA	TT	1946774546
SNP_P4_31683_19374051	NC_021162.1	Ca_kabuli_chr03	19374051	CC	TT	1946774548
SNP_P4_31684_19374102	NC_021162.1	Ca_kabuli_chr03	19374102	TT	AA	1946774550
SNP_P4_31685_19374150	NC_021162.1	Ca_kabuli_chr03	19374150	TT	CC	1946774552

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_31686_19374352	NC_021162.1	Ca_kabuli_chr03	19374352	GG	TT	1946774554
SNP_P4_31687_19374538	NC_021162.1	Ca_kabuli_chr03	19374538	CC	AA	1946774556
SNP_P4_31688_19374606	NC_021162.1	Ca_kabuli_chr03	19374606	CC	TT	1946774558
SNP_P4_31689_19374611	NC_021162.1	Ca_kabuli_chr03	19374611	TT	GG	1946774560
SNP_P4_31690_19374638	NC_021162.1	Ca_kabuli_chr03	19374638	TT	GG	1946774562
SNP_P4_31691_19374732	NC_021162.1	Ca_kabuli_chr03	19374732	CC	GG	1946774565
SNP_P4_31692_19375012	NC_021162.1	Ca_kabuli_chr03	19375012	TT	AA	1946774567
SNP_P4_31693_19375020	NC_021162.1	Ca_kabuli_chr03	19375020	AA	GG	1946774568
SNP_P4_31694_19375031	NC_021162.1	Ca_kabuli_chr03	19375031	AA	GG	1946774570
SNP_P4_31697_19375138	NC_021162.1	Ca_kabuli_chr03	19375138	GG	AA	1946774572
SNP_P4_31698_19375145	NC_021162.1	Ca_kabuli_chr03	19375145	AA	GG	1946774574
SNP_P4_31699_19375191	NC_021162.1	Ca_kabuli_chr03	19375191	AA	CC	1946774576
SNP_P4_31700_19375219	NC_021162.1	Ca_kabuli_chr03	19375219	TT	AA	1946774578
SNP_P4_31701_19375236	NC_021162.1	Ca_kabuli_chr03	19375236	GG	AA	1946774580
SNP_P4_31702_19375292	NC_021162.1	Ca_kabuli_chr03	19375292	CC	TT	1946774582
SNP_P4_31703_19375438	NC_021162.1	Ca_kabuli_chr03	19375438	TT	GG	1946774584
SNP_P4_31704_19375495	NC_021162.1	Ca_kabuli_chr03	19375495	TT	CC	1946774586
SNP_P4_31705_19375505	NC_021162.1	Ca_kabuli_chr03	19375505	TT	GG	1946774588
SNP_P4_31706_19375539	NC_021162.1	Ca_kabuli_chr03	19375539	AA	GG	1946774591
SNP_P4_31708_19376104	NC_021162.1	Ca_kabuli_chr03	19376104	CC	AA	1946774593
SNP_P4_31709_19376166	NC_021162.1	Ca_kabuli_chr03	19376166	TT	GG	1946774595
SNP_P4_31710_19376201	NC_021162.1	Ca_kabuli_chr03	19376201	CC	TT	1946774597
SNP_P4_31711_19376255	NC_021162.1	Ca_kabuli_chr03	19376255	CC	TT	1946774599
SNP_P4_31712_19376296	NC_021162.1	Ca_kabuli_chr03	19376296	GG	AA	1946774601
SNP_P4_31713_19376356	NC_021162.1	Ca_kabuli_chr03	19376356	CC	TT	1946774603
SNP_P4_31714_19376443	NC_021162.1	Ca_kabuli_chr03	19376443	GG	TT	1946774605
SNP_P4_31715_19376495	NC_021162.1	Ca_kabuli_chr03	19376495	TT	CC	1946774607
SNP_P4_31716_19376528	NC_021162.1	Ca_kabuli_chr03	19376528	TT	CC	1946774609
SNP_P4_31717_19376562	NC_021162.1	Ca_kabuli_chr03	19376562	AA	GG	1946774611
SNP_P4_31718_19376579	NC_021162.1	Ca_kabuli_chr03	19376579	AA	GG	1946774614
SNP_P4_31719_19376603	NC_021162.1	Ca_kabuli_chr03	19376603	TT	AA	1946774616
SNP_P4_31720_19376820	NC_021162.1	Ca_kabuli_chr03	19376820	CC	TT	1946774618
SNP_P4_31721_19376838	NC_021162.1	Ca_kabuli_chr03	19376838	GG	AA	1946774620
SNP_P4_31722_19377071	NC_021162.1	Ca_kabuli_chr03	19377071	GG	CC	1946774622
SNP_P4_31723_19377393	NC_021162.1	Ca_kabuli_chr03	19377393	TT	CC	1946774624
SNP_P4_31724_19377400	NC_021162.1	Ca_kabuli_chr03	19377400	TT	CC	1946774627
SNP_P4_31725_19377743	NC_021162.1	Ca_kabuli_chr03	19377743	AA	GG	1946774629
SNP_P4_31726_19380118	NC_021162.1	Ca_kabuli_chr03	19380118	GG	CC	1946774631
SNP_P4_31728_19380292	NC_021162.1	Ca_kabuli_chr03	19380292	CC	TT	1946774633
SNP_P4_31729_19380371	NC_021162.1	Ca_kabuli_chr03	19380371	CC	TT	1946774635
SNP_P4_31730_19380434	NC_021162.1	Ca_kabuli_chr03	19380434	TT	GG	1946774637
SNP_P4_31731_19380490	NC_021162.1	Ca_kabuli_chr03	19380490	GG	AA	1946774639

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_31732_19380582	NC_021162.1	Ca_kabuli_chr03	19380582	TT	CC	1946774641
SNP_P4_31733_19380625	NC_021162.1	Ca_kabuli_chr03	19380625	GG	AA	1946774643
SNP_P4_31734_19380659	NC_021162.1	Ca_kabuli_chr03	19380659	TT	CC	1946774645
SNP_P4_31735_19380721	NC_021162.1	Ca_kabuli_chr03	19380721	TT	CC	1946774647
SNP_P4_31736_19380769	NC_021162.1	Ca_kabuli_chr03	19380769	TT	CC	1946774649
SNP_P4_31737_19380799	NC_021162.1	Ca_kabuli_chr03	19380799	TT	CC	1946774651
SNP_P4_31738_19380962	NC_021162.1	Ca_kabuli_chr03	19380962	GG	TT	1946774653
SNP_P4_31739_19380966	NC_021162.1	Ca_kabuli_chr03	19380966	TT	CC	1946774656
SNP_P4_31740_19381019	NC_021162.1	Ca_kabuli_chr03	19381019	GG	AA	1946774658
SNP_P4_31741_19381034	NC_021162.1	Ca_kabuli_chr03	19381034	TT	AA	1946774660
SNP_P4_31742_19381107	NC_021162.1	Ca_kabuli_chr03	19381107	GG	AA	1946774662
SNP_P4_31743_19381306	NC_021162.1	Ca_kabuli_chr03	19381306	CC	TT	1946774664
SNP_P4_31744_19381356	NC_021162.1	Ca_kabuli_chr03	19381356	AA	GG	1946774666
SNP_P4_31745_19381365	NC_021162.1	Ca_kabuli_chr03	19381365	TT	CC	1946774669
SNP_P4_31746_19381428	NC_021162.1	Ca_kabuli_chr03	19381428	CC	TT	1946774671
SNP_P4_31747_19381453	NC_021162.1	Ca_kabuli_chr03	19381453	TT	GG	1946774674
SNP_P4_31749_19381656	NC_021162.1	Ca_kabuli_chr03	19381656	AA	GG	1946774676
SNP_P4_31750_19381713	NC_021162.1	Ca_kabuli_chr03	19381713	AA	GG	1946774678
SNP_P4_31751_19381719	NC_021162.1	Ca_kabuli_chr03	19381719	TT	GG	1946774680
SNP_P4_31752_19381727	NC_021162.1	Ca_kabuli_chr03	19381727	AA	GG	1946774682
SNP_P4_31753_19381787	NC_021162.1	Ca_kabuli_chr03	19381787	GG	AA	1946774684
SNP_P4_31754_19381804	NC_021162.1	Ca_kabuli_chr03	19381804	TT	CC	1946774686
SNP_P4_31755_19381839	NC_021162.1	Ca_kabuli_chr03	19381839	CC	AA	1946774688
SNP_P4_31756_19381894	NC_021162.1	Ca_kabuli_chr03	19381894	AA	CC	1946774691
SNP_P4_31757_19381919	NC_021162.1	Ca_kabuli_chr03	19381919	CC	TT	1946774693
SNP_P4_31758_19382076	NC_021162.1	Ca_kabuli_chr03	19382076	TT	CC	1946774695
SNP_P4_31759_19382126	NC_021162.1	Ca_kabuli_chr03	19382126	GG	CC	1946774697
SNP_P4_31760_19382140	NC_021162.1	Ca_kabuli_chr03	19382140	GG	AA	1946774699
SNP_P4_31761_19382193	NC_021162.1	Ca_kabuli_chr03	19382193	TT	CC	1946774701
SNP_P4_31762_19382254	NC_021162.1	Ca_kabuli_chr03	19382254	GG	AA	1946774703
SNP_P4_31763_19382269	NC_021162.1	Ca_kabuli_chr03	19382269	GG	AA	1946774705
SNP_P4_31764_19382324	NC_021162.1	Ca_kabuli_chr03	19382324	GG	AA	1946774708
SNP_P4_31765_19382328	NC_021162.1	Ca_kabuli_chr03	19382328	AA	GG	1946774710
SNP_P4_31766_19382329	NC_021162.1	Ca_kabuli_chr03	19382329	CC	TT	1946774712
SNP_P4_31767_19382500	NC_021162.1	Ca_kabuli_chr03	19382500	TT	GG	1946774714
SNP_P4_31769_19383542	NC_021162.1	Ca_kabuli_chr03	19383542	AA	GG	1946774716
SNP_P4_31770_19383555	NC_021162.1	Ca_kabuli_chr03	19383555	CC	TT	1946774718
SNP_P4_31771_19383672	NC_021162.1	Ca_kabuli_chr03	19383672	TT	CC	1946774720
SNP_P4_31772_19383687	NC_021162.1	Ca_kabuli_chr03	19383687	TT	CC	1946774722
SNP_P4_31773_19383698	NC_021162.1	Ca_kabuli_chr03	19383698	AA	CC	1946774724
SNP_P4_31774_19383714	NC_021162.1	Ca_kabuli_chr03	19383714	GG	AA	1946774726
SNP_P4_31775_19383772	NC_021162.1	Ca_kabuli_chr03	19383772	CC	TT	1946774728

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_31778_19384055	NC_021162.1	Ca_kabuli_chr03	19384055	AA	GG	1946774732
SNP_P4_31779_19384089	NC_021162.1	Ca_kabuli_chr03	19384089	AA	GG	1946774734
SNP_P4_31780_19384093	NC_021162.1	Ca_kabuli_chr03	19384093	CC	TT	1946774735
SNP_P4_31781_19384108	NC_021162.1	Ca_kabuli_chr03	19384108	AA	CC	1946774737
SNP_P4_31782_19384125	NC_021162.1	Ca_kabuli_chr03	19384125	GG	AA	1946774739
SNP_P4_31783_19384126	NC_021162.1	Ca_kabuli_chr03	19384126	GG	AA	1946774741
SNP_P4_31784_19385025	NC_021162.1	Ca_kabuli_chr03	19385025	GG	AA	1946774743
SNP_P4_31785_19385079	NC_021162.1	Ca_kabuli_chr03	19385079	AA	GG	1946774745
SNP_P4_31786_19385144	NC_021162.1	Ca_kabuli_chr03	19385144	CC	AA	1946774747
SNP_P4_31787_19385147	NC_021162.1	Ca_kabuli_chr03	19385147	CC	TT	1946774749
SNP_P4_31788_19385179	NC_021162.1	Ca_kabuli_chr03	19385179	AA	GG	1946774751
SNP_P4_31789_19385271	NC_021162.1	Ca_kabuli_chr03	19385271	TT	CC	1946774753
SNP_P4_31790_19385318	NC_021162.1	Ca_kabuli_chr03	19385318	AA	GG	1946774755
SNP_P4_31791_19385371	NC_021162.1	Ca_kabuli_chr03	19385371	GG	AA	1946774757
SNP_P4_31792_19385519	NC_021162.1	Ca_kabuli_chr03	19385519	TT	CC	1946774759
SNP_P4_31793_19385526	NC_021162.1	Ca_kabuli_chr03	19385526	CC	TT	1946774761
SNP_P4_31794_19385570	NC_021162.1	Ca_kabuli_chr03	19385570	AA	TT	1946774764
SNP_P4_31795_19385609	NC_021162.1	Ca_kabuli_chr03	19385609	TT	CC	1946774766
SNP_P4_31796_19385618	NC_021162.1	Ca_kabuli_chr03	19385618	TT	AA	1946774768
SNP_P4_31797_19385645	NC_021162.1	Ca_kabuli_chr03	19385645	AA	GG	1946774770
SNP_P4_31798_19385650	NC_021162.1	Ca_kabuli_chr03	19385650	AA	GG	1946774772
SNP_P4_31799_19385655	NC_021162.1	Ca_kabuli_chr03	19385655	CC	TT	1946774774
SNP_P4_31800_19385753	NC_021162.1	Ca_kabuli_chr03	19385753	TT	CC	1946774776
SNP_P4_31801_19385808	NC_021162.1	Ca_kabuli_chr03	19385808	GG	CC	1946774778
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SNP_P4_31803_19385972	NC_021162.1	Ca_kabuli_chr03	19385972	GG	AA	1946774782
SNP_P4_31804_19385976	NC_021162.1	Ca_kabuli_chr03	19385976	GG	AA	1946774784
SNP_P4_31805_19385982	NC_021162.1	Ca_kabuli_chr03	19385982	AA	GG	1946774786
SNP_P4_31806_19386037	NC_021162.1	Ca_kabuli_chr03	19386037	AA	GG	1946774789
SNP_P4_31807_19386044	NC_021162.1	Ca_kabuli_chr03	19386044	TT	CC	1946774791
SNP_P4_31808_19386061	NC_021162.1	Ca_kabuli_chr03	19386061	AA	GG	1946774794
SNP_P4_31809_19386096	NC_021162.1	Ca_kabuli_chr03	19386096	GG	AA	1946774796
SNP_P4_31810_19386105	NC_021162.1	Ca_kabuli_chr03	19386105	GG	CC	1946774798
SNP_P4_31811_19386142	NC_021162.1	Ca_kabuli_chr03	19386142	AA	GG	1946774800
SNP_P4_31812_19386821	NC_021162.1	Ca_kabuli_chr03	19386821	TT	GG	1946774802
SNP_P4_31813_19386833	NC_021162.1	Ca_kabuli_chr03	19386833	CC	GG	1946774804
SNP_P4_31814_19386847	NC_021162.1	Ca_kabuli_chr03	19386847	AA	GG	1946774806
SNP_P4_31815_19386858	NC_021162.1	Ca_kabuli_chr03	19386858	TT	CC	1946774808
SNP_P4_31816_19387022	NC_021162.1	Ca_kabuli_chr03	19387022	AA	GG	1946774810
SNP_P4_31817_19387026	NC_021162.1	Ca_kabuli_chr03	19387026	TT	AA	1946774812
SNP_P4_31818_19389532	NC_021162.1	Ca_kabuli_chr03	19389532	TT	CC	1946774814

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_31820_19389602	NC_021162.1	Ca_kabuli_chr03	19389602	TT	CC	1946774819
SNP_P4_31821_19389607	NC_021162.1	Ca_kabuli_chr03	19389607	CC	AA	1946774821
SNP_P4_31822_19389632	NC_021162.1	Ca_kabuli_chr03	19389632	TT	CC	1946774823
SNP_P4_31823_19391542	NC_021162.1	Ca_kabuli_chr03	19391542	GG	AA	1946774825
SNP_P4_31824_19402891	NC_021162.1	Ca_kabuli_chr03	19402891	AA	TT	1946774827
SNP_P4_31825_19402911	NC_021162.1	Ca_kabuli_chr03	19402911	GG	TT	1946774829
SNP_P4_31826_19402926	NC_021162.1	Ca_kabuli_chr03	19402926	TT	CC	1946774831
SNP_P4_31827_19402946	NC_021162.1	Ca_kabuli_chr03	19402946	AA	CC	1946774833
SNP_P4_31828_19402952	NC_021162.1	Ca_kabuli_chr03	19402952	TT	CC	1946774835
SNP_P4_31829_19402975	NC_021162.1	Ca_kabuli_chr03	19402975	AA	GG	1946774837
SNP_P4_31830_19402981	NC_021162.1	Ca_kabuli_chr03	19402981	AA	GG	1946774839
SNP_P4_31832_19452875	NC_021162.1	Ca_kabuli_chr03	19452875	TT	CC	1946774841
SNP_P4_31833_19452892	NC_021162.1	Ca_kabuli_chr03	19452892	TT	CC	1946774843
SNP_P4_31834_19452910	NC_021162.1	Ca_kabuli_chr03	19452910	CC	AA	1946774846
SNP_P4_31835_19452913	NC_021162.1	Ca_kabuli_chr03	19452913	GG	TT	1946774848
SNP_P4_31836_19452934	NC_021162.1	Ca_kabuli_chr03	19452934	CC	GG	1946774850
SNP_P4_31837_19454089	NC_021162.1	Ca_kabuli_chr03	19454089	TT	CC	1946774852
SNP_P4_31838_19481413	NC_021162.1	Ca_kabuli_chr03	19481413	TT	GG	1946774854
SNP_P4_31839_19486013	NC_021162.1	Ca_kabuli_chr03	19486013	AA	TT	1946774856
SNP_P4_31840_19486014	NC_021162.1	Ca_kabuli_chr03	19486014	AA	GG	1946774858
SNP_P4_31841_19492691	NC_021162.1	Ca_kabuli_chr03	19492691	TT	AA	1946774860
SNP_P4_31842_19492692	NC_021162.1	Ca_kabuli_chr03	19492692	TT	AA	1946774863
SNP_P4_31843_19494405	NC_021162.1	Ca_kabuli_chr03	19494405	AA	CC	1946774865
SNP_P4_31845_19513549	NC_021162.1	Ca_kabuli_chr03	19513549	CC	TT	1946774867
SNP_P4_31846_19530074	NC_021162.1	Ca_kabuli_chr03	19530074	AA	GG	1946774869
SNP_P4_31847_19533100	NC_021162.1	Ca_kabuli_chr03	19533100	GG	AA	1946774871
SNP_P4_31848_19555475	NC_021162.1	Ca_kabuli_chr03	19555475	CC	TT	1946774873
SNP_P4_31849_19555520	NC_021162.1	Ca_kabuli_chr03	19555520	TT	CC	1946774875
SNP_P4_31850_19556609	NC_021162.1	Ca_kabuli_chr03	19556609	GG	AA	1946774877
SNP_P4_31851_19556633	NC_021162.1	Ca_kabuli_chr03	19556633	GG	AA	1946774879
SNP_P4_31852_19556657	NC_021162.1	Ca_kabuli_chr03	19556657	AA	GG	1946774881
SNP_P4_31853_19557085	NC_021162.1	Ca_kabuli_chr03	19557085	AA	GG	1946774883
SNP_P4_31854_19557087	NC_021162.1	Ca_kabuli_chr03	19557087	CC	TT	1946774885
SNP_P4_31856_19559898	NC_021162.1	Ca_kabuli_chr03	19559898	CC	AA	1946774887
SNP_P4_31858_19566215	NC_021162.1	Ca_kabuli_chr03	19566215	TT	CC	1946774889
SNP_P4_31860_19634128	NC_021162.1	Ca_kabuli_chr03	19634128	AA	TT	1946774891
SNP_P4_31861_19634288	NC_021162.1	Ca_kabuli_chr03	19634288	TT	CC	1946774893
SNP_P4_31862_19634322	NC_021162.1	Ca_kabuli_chr03	19634322	AA	GG	1946774895
SNP_P4_31863_19634370	NC_021162.1	Ca_kabuli_chr03	19634370	CC	TT	1946774897
SNP_P4_31864_19635993	NC_021162.1	Ca_kabuli_chr03	19635993	GG	AA	1946774899
SNP_P4_31865_19636415	NC_021162.1	Ca_kabuli_chr03	19636415	AA	GG	1946774901

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_31866_19636503	NC_021162.1	Ca_kabuli_chr03	19636503	CC	GG	1946774903
SNP_P4_31867_19637115	NC_021162.1	Ca_kabuli_chr03	19637115	GG	TT	1946774905
SNP_P4_31868_19639561	NC_021162.1	Ca_kabuli_chr03	19639561	TT	CC	1946774907
SNP_P4_31869_19639939	NC_021162.1	Ca_kabuli_chr03	19639939	GG	AA	1946774909
SNP_P4_31870_19639973	NC_021162.1	Ca_kabuli_chr03	19639973	TT	AA	1946774911
SNP_P4_31871_19639989	NC_021162.1	Ca_kabuli_chr03	19639989	TT	GG	1946774913
SNP_P4_31872_19639992	NC_021162.1	Ca_kabuli_chr03	19639992	AA	TT	1946774915
SNP_P4_31873_19640018	NC_021162.1	Ca_kabuli_chr03	19640018	GG	CC	1946774917
SNP_P4_31874_19654702	NC_021162.1	Ca_kabuli_chr03	19654702	GG	AA	1946774919
SNP_P4_31876_19682962	NC_021162.1	Ca_kabuli_chr03	19682962	CC	AA	1946774921
SNP_P4_31877_19682985	NC_021162.1	Ca_kabuli_chr03	19682985	GG	TT	1946774923
SNP_P4_31878_19684026	NC_021162.1	Ca_kabuli_chr03	19684026	CC	TT	1946774925
SNP_P4_31879_19686998	NC_021162.1	Ca_kabuli_chr03	19686998	CC	AA	1946774927
SNP_P4_31880_19687054	NC_021162.1	Ca_kabuli_chr03	19687054	CC	AA	1946774929
SNP_P4_31881_19687100	NC_021162.1	Ca_kabuli_chr03	19687100	TT	CC	1946774932
SNP_P4_31882_19688164	NC_021162.1	Ca_kabuli_chr03	19688164	AA	TT	1946774934
SNP_P4_31883_19688166	NC_021162.1	Ca_kabuli_chr03	19688166	GG	AA	1946774936
SNP_P4_31884_19688198	NC_021162.1	Ca_kabuli_chr03	19688198	GG	CC	1946774938
SNP_P4_31885_19688207	NC_021162.1	Ca_kabuli_chr03	19688207	TT	CC	1946774940
SNP_P4_31886_19688210	NC_021162.1	Ca_kabuli_chr03	19688210	AA	TT	1946774942
SNP_P4_31887_19688212	NC_021162.1	Ca_kabuli_chr03	19688212	GG	TT	1946774944
SNP_P4_31888_19688226	NC_021162.1	Ca_kabuli_chr03	19688226	AA	CC	1946774947
SNP_P4_31889_19688481	NC_021162.1	Ca_kabuli_chr03	19688481	TT	CC	1946774949
SNP_P4_31890_19688485	NC_021162.1	Ca_kabuli_chr03	19688485	TT	CC	1946774951
SNP_P4_31891_19688486	NC_021162.1	Ca_kabuli_chr03	19688486	AA	GG	1946774953
SNP_P4_31892_19688719	NC_021162.1	Ca_kabuli_chr03	19688719	GG	AA	1946774955
SNP_P4_31893_19688748	NC_021162.1	Ca_kabuli_chr03	19688748	GG	AA	1946774957
SNP_P4_31894_19702398	NC_021162.1	Ca_kabuli_chr03	19702398	AA	TT	1946774959
SNP_P4_31895_19702417	NC_021162.1	Ca_kabuli_chr03	19702417	GG	TT	1946774962
SNP_P4_31896_19705274	NC_021162.1	Ca_kabuli_chr03	19705274	CC	TT	1946774964
SNP_P4_31897_19731521	NC_021162.1	Ca_kabuli_chr03	19731521	TT	GG	1946774966
SNP_P4_31898_19735115	NC_021162.1	Ca_kabuli_chr03	19735115	CC	AA	1946774968
SNP_P4_31899_19740917	NC_021162.1	Ca_kabuli_chr03	19740917	CC	AA	1946774970
SNP_P4_31900_19742599	NC_021162.1	Ca_kabuli_chr03	19742599	TT	AA	1946774972
SNP_P4_31901_19742668	NC_021162.1	Ca_kabuli_chr03	19742668	GG	CC	1946774975
SNP_P4_31902_19769522	NC_021162.1	Ca_kabuli_chr03	19769522	TT	CC	1946774977
SNP_P4_31903_19769742	NC_021162.1	Ca_kabuli_chr03	19769742	CC	AA	1946774979
SNP_P4_31904_19771899	NC_021162.1	Ca_kabuli_chr03	19771899	TT	CC	1946774981
SNP_P4_31906_19810809	NC_021162.1	Ca_kabuli_chr03	19810809	CC	TT	1946774983
SNP_P4_31907_19815790	NC_021162.1	Ca_kabuli_chr03	19815790	AA	TT	1946774985
SNP_P4_31908_19832600	NC_021162.1	Ca_kabuli_chr03	19832600	CC	TT	1946774987
SNP_P4_31909_19835739	NC_021162.1	Ca_kabuli_chr03	19835739	CC	GG	1946774990

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_31910_19897385	NC_021162.1	Ca_kabuli_chr03	19897385	AA	GG	1946774992
SNP_P4_31911_19897679	NC_021162.1	Ca_kabuli_chr03	19897679	AA	CC	1946774994
SNP_P4_31912_19901997	NC_021162.1	Ca_kabuli_chr03	19901997	AA	GG	1946774996
SNP_P4_31913_19916976	NC_021162.1	Ca_kabuli_chr03	19916976	AA	TT	1946774998
SNP_P4_31914_19929792	NC_021162.1	Ca_kabuli_chr03	19929792	TT	CC	1946775000
SNP_P4_31915_19960101	NC_021162.1	Ca_kabuli_chr03	19960101	AA	GG	1946775002
SNP_P4_31916_19960175	NC_021162.1	Ca_kabuli_chr03	19960175	GG	AA	1946775004
SNP_P4_31918_19961010	NC_021162.1	Ca_kabuli_chr03	19961010	CC	TT	1946775006
SNP_P4_31919_19961016	NC_021162.1	Ca_kabuli_chr03	19961016	AA	CC	1946775008
SNP_P4_31920_19964171	NC_021162.1	Ca_kabuli_chr03	19964171	GG	TT	1946775010
SNP_P4_31921_19965047	NC_021162.1	Ca_kabuli_chr03	19965047	CC	TT	1946775012
SNP_P4_31922_19965098	NC_021162.1	Ca_kabuli_chr03	19965098	CC	TT	1946775014
SNP_P4_31923_19965123	NC_021162.1	Ca_kabuli_chr03	19965123	AA	GG	1946775016
SNP_P4_31924_19965148	NC_021162.1	Ca_kabuli_chr03	19965148	CC	AA	1946775018
SNP_P4_31925_19965308	NC_021162.1	Ca_kabuli_chr03	19965308	GG	CC	1946775020
SNP_P4_31926_19965313	NC_021162.1	Ca_kabuli_chr03	19965313	GG	AA	1946775023
SNP_P4_31927_19965323	NC_021162.1	Ca_kabuli_chr03	19965323	GG	AA	1946775025
SNP_P4_31928_19965325	NC_021162.1	Ca_kabuli_chr03	19965325	GG	AA	1946775027
SNP_P4_31929_19965339	NC_021162.1	Ca_kabuli_chr03	19965339	GG	TT	1946775029
SNP_P4_31930_19965349	NC_021162.1	Ca_kabuli_chr03	19965349	TT	CC	1946775031
SNP_P4_31932_19965407	NC_021162.1	Ca_kabuli_chr03	19965407	AA	CC	1946775033
SNP_P4_31933_19967565	NC_021162.1	Ca_kabuli_chr03	19967565	AA	GG	1946775035
SNP_P4_31934_19967624	NC_021162.1	Ca_kabuli_chr03	19967624	CC	TT	1946775037
SNP_P4_31935_19967630	NC_021162.1	Ca_kabuli_chr03	19967630	AA	CC	1946775039
SNP_P4_31936_19967771	NC_021162.1	Ca_kabuli_chr03	19967771	TT	CC	1946775041
SNP_P4_31937_19967773	NC_021162.1	Ca_kabuli_chr03	19967773	AA	GG	1946775043
SNP_P4_31938_19967843	NC_021162.1	Ca_kabuli_chr03	19967843	TT	CC	1946775045
SNP_P4_31939_19967963	NC_021162.1	Ca_kabuli_chr03	19967963	TT	CC	1946775047
SNP_P4_31940_19968053	NC_021162.1	Ca_kabuli_chr03	19968053	AA	TT	1946775049
SNP_P4_31941_19968170	NC_021162.1	Ca_kabuli_chr03	19968170	CC	TT	1946775051
SNP_P4_31942_19968197	NC_021162.1	Ca_kabuli_chr03	19968197	AA	GG	1946775053
SNP_P4_31943_19969699	NC_021162.1	Ca_kabuli_chr03	19969699	CC	TT	1946775055
SNP_P4_31944_19993982	NC_021162.1	Ca_kabuli_chr03	19993982	AA	GG	1946775057
SNP_P4_31945_19994000	NC_021162.1	Ca_kabuli_chr03	19994000	AA	TT	1946775059
SNP_P4_31946_19994048	NC_021162.1	Ca_kabuli_chr03	19994048	GG	CC	1946775061
SNP_P4_31947_19994126	NC_021162.1	Ca_kabuli_chr03	19994126	AA	GG	1946775064
SNP_P4_31948_19994146	NC_021162.1	Ca_kabuli_chr03	19994146	AA	GG	1946775066
SNP_P4_31949_19994168	NC_021162.1	Ca_kabuli_chr03	19994168	CC	AA	1946775068
SNP_P4_31950_19994170	NC_021162.1	Ca_kabuli_chr03	19994170	AA	GG	1946775070
SNP_P4_31951_19994297	NC_021162.1	Ca_kabuli_chr03	19994297	CC	TT	1946775072
SNP_P4_31952_19994301	NC_021162.1	Ca_kabuli_chr03	19994301	CC	TT	1946775074
SNP_P4_31953_19994352	NC_021162.1	Ca_kabuli_chr03	19994352	AA	GG	1946775076

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_31956_20011615	NC_021162.1	Ca_kabuli_chr03	20011615	GG	AA	1946775080
SNP_P4_31957_20011718	NC_021162.1	Ca_kabuli_chr03	20011718	GG	AA	1946775083
SNP_P4_31958_20011742	NC_021162.1	Ca_kabuli_chr03	20011742	CC	TT	1946775085
SNP_P4_31959_20011905	NC_021162.1	Ca_kabuli_chr03	20011905	GG	CC	1946775087
SNP_P4_31960_20011933	NC_021162.1	Ca_kabuli_chr03	20011933	CC	TT	1946775089
SNP_P4_31961_20012040	NC_021162.1	Ca_kabuli_chr03	20012040	CC	TT	1946775091
SNP_P4_31962_20012067	NC_021162.1	Ca_kabuli_chr03	20012067	CC	TT	1946775094
SNP_P4_31963_20012109	NC_021162.1	Ca_kabuli_chr03	20012109	GG	AA	1946775096
SNP_P4_31964_20012171	NC_021162.1	Ca_kabuli_chr03	20012171	GG	AA	1946775098
SNP_P4_31965_20012191	NC_021162.1	Ca_kabuli_chr03	20012191	TT	CC	1946775100
SNP_P4_31966_20012193	NC_021162.1	Ca_kabuli_chr03	20012193	GG	AA	1946775102
SNP_P4_31967_20012233	NC_021162.1	Ca_kabuli_chr03	20012233	GG	AA	1946775104
SNP_P4_31968_20012263	NC_021162.1	Ca_kabuli_chr03	20012263	CC	TT	1946775107
SNP_P4_31971_20075277	NC_021162.1	Ca_kabuli_chr03	20075277	AA	GG	1946775109
SNP_P4_31972_20113524	NC_021162.1	Ca_kabuli_chr03	20113524	TT	CC	1946775112
SNP_P4_31973_20113668	NC_021162.1	Ca_kabuli_chr03	20113668	GG	AA	1946775114
SNP_P4_31974_20113672	NC_021162.1	Ca_kabuli_chr03	20113672	GG	TT	1946775116
SNP_P4_31975_20120884	NC_021162.1	Ca_kabuli_chr03	20120884	AA	TT	1946775118
SNP_P4_31976_20122707	NC_021162.1	Ca_kabuli_chr03	20122707	TT	CC	1946775120
SNP_P4_31978_20162167	NC_021162.1	Ca_kabuli_chr03	20162167	TT	AA	1946775122
SNP_P4_31979_20206624	NC_021162.1	Ca_kabuli_chr03	20206624	GG	AA	1946775124
SNP_P4_31980_20222130	NC_021162.1	Ca_kabuli_chr03	20222130	GG	TT	1946775127
SNP_P4_31981_20222547	NC_021162.1	Ca_kabuli_chr03	20222547	AA	GG	1946775129
SNP_P4_31982_20223735	NC_021162.1	Ca_kabuli_chr03	20223735	AA	GG	1946775131
SNP_P4_31983_20232380	NC_021162.1	Ca_kabuli_chr03	20232380	TT	AA	1946775133
SNP_P4_31984_20233059	NC_021162.1	Ca_kabuli_chr03	20233059	GG	TT	1946775136
SNP_P4_31985_20256109	NC_021162.1	Ca_kabuli_chr03	20256109	AA	CC	1946775138
SNP_P4_31986_20256153	NC_021162.1	Ca_kabuli_chr03	20256153	CC	TT	1946775140
SNP_P4_31987_20258270	NC_021162.1	Ca_kabuli_chr03	20258270	TT	CC	1946775142
SNP_P4_31988_20258298	NC_021162.1	Ca_kabuli_chr03	20258298	CC	TT	1946775144
SNP_P4_31989_20258317	NC_021162.1	Ca_kabuli_chr03	20258317	AA	GG	1946775147
SNP_P4_31990_20258357	NC_021162.1	Ca_kabuli_chr03	20258357	TT	CC	1946775149
SNP_P4_31991_20258551	NC_021162.1	Ca_kabuli_chr03	20258551	TT	GG	1946775151
SNP_P4_31992_20258573	NC_021162.1	Ca_kabuli_chr03	20258573	AA	CC	1946775153
SNP_P4_31993_20273974	NC_021162.1	Ca_kabuli_chr03	20273974	CC	TT	1946775155
SNP_P4_31994_20280249	NC_021162.1	Ca_kabuli_chr03	20280249	TT	AA	1946775157
SNP_P4_31996_20319266	NC_021162.1	Ca_kabuli_chr03	20319266	AA	TT	1946775159
SNP_P4_31997_20323846	NC_021162.1	Ca_kabuli_chr03	20323846	GG	AA	1946775161
SNP_P4_31998_20323960	NC_021162.1	Ca_kabuli_chr03	20323960	TT	AA	1946775163
SNP_P4_31999_20324152	NC_021162.1	Ca_kabuli_chr03	20324152	CC	AA	1946775165
SNP_P4_32000_20324219	NC_021162.1	Ca_kabuli_chr03	20324219	AA	CC	1946775167

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_32002_20335840	NC_021162.1	Ca_kabuli_chr03	20335840	TT	GG	1946775171
SNP_P4_32003_20337413	NC_021162.1	Ca_kabuli_chr03	20337413	CC	TT	1946775174
SNP_P4_32004_20337417	NC_021162.1	Ca_kabuli_chr03	20337417	CC	AA	1946775176
SNP_P4_32005_20337555	NC_021162.1	Ca_kabuli_chr03	20337555	TT	AA	1946775178
SNP_P4_32006_20337567	NC_021162.1	Ca_kabuli_chr03	20337567	CC	TT	1946775180
SNP_P4_32007_20337573	NC_021162.1	Ca_kabuli_chr03	20337573	GG	AA	1946775182
SNP_P4_32008_20337582	NC_021162.1	Ca_kabuli_chr03	20337582	CC	TT	1946775184
SNP_P4_32009_20337587	NC_021162.1	Ca_kabuli_chr03	20337587	AA	GG	1946775186
SNP_P4_32011_20339579	NC_021162.1	Ca_kabuli_chr03	20339579	AA	TT	1946775189
SNP_P4_32012_20339580	NC_021162.1	Ca_kabuli_chr03	20339580	TT	AA	1946775191
SNP_P4_32013_20340142	NC_021162.1	Ca_kabuli_chr03	20340142	CC	TT	1946775193
SNP_P4_32015_20377955	NC_021162.1	Ca_kabuli_chr03	20377955	CC	GG	1946775196
SNP_P4_32016_20378319	NC_021162.1	Ca_kabuli_chr03	20378319	CC	TT	1946775198
SNP_P4_32017_20378340	NC_021162.1	Ca_kabuli_chr03	20378340	GG	AA	1946775200
SNP_P4_32020_20391551	NC_021162.1	Ca_kabuli_chr03	20391551	TT	CC	1946775202
SNP_P4_32021_20398302	NC_021162.1	Ca_kabuli_chr03	20398302	CC	TT	1946775204
SNP_P4_32023_20424957	NC_021162.1	Ca_kabuli_chr03	20424957	GG	AA	1946775206
SNP_P4_32024_20436728	NC_021162.1	Ca_kabuli_chr03	20436728	TT	CC	1946775208
SNP_P4_32025_20436737	NC_021162.1	Ca_kabuli_chr03	20436737	CC	TT	1946775210
SNP_P4_32026_20438634	NC_021162.1	Ca_kabuli_chr03	20438634	TT	CC	1946775212
SNP_P4_32027_20438777	NC_021162.1	Ca_kabuli_chr03	20438777	TT	CC	1946775214
SNP_P4_32028_20438787	NC_021162.1	Ca_kabuli_chr03	20438787	AA	CC	1946775216
SNP_P4_32029_20439004	NC_021162.1	Ca_kabuli_chr03	20439004	GG	TT	1946775218
SNP_P4_32030_20439013	NC_021162.1	Ca_kabuli_chr03	20439013	AA	TT	1946775221
SNP_P4_32031_20446911	NC_021162.1	Ca_kabuli_chr03	20446911	GG	AA	1946775223
SNP_P4_32032_20468329	NC_021162.1	Ca_kabuli_chr03	20468329	AA	CC	1946775224
SNP_P4_32033_20468330	NC_021162.1	Ca_kabuli_chr03	20468330	AA	TT	1946775226
SNP_P4_32034_20484349	NC_021162.1	Ca_kabuli_chr03	20484349	TT	CC	1946775229
SNP_P4_32035_20484465	NC_021162.1	Ca_kabuli_chr03	20484465	GG	CC	1946775231
SNP_P4_32036_20488175	NC_021162.1	Ca_kabuli_chr03	20488175	AA	GG	1946775233
SNP_P4_32037_20511878	NC_021162.1	Ca_kabuli_chr03	20511878	GG	AA	1946775235
SNP_P4_32038_20513655	NC_021162.1	Ca_kabuli_chr03	20513655	TT	CC	1946775237
SNP_P4_32039_20518831	NC_021162.1	Ca_kabuli_chr03	20518831	CC	TT	1946775239
SNP_P4_32040_20518833	NC_021162.1	Ca_kabuli_chr03	20518833	TT	AA	1946775242
SNP_P4_32041_20521486	NC_021162.1	Ca_kabuli_chr03	20521486	GG	AA	1946775244
SNP_P4_32042_20526423	NC_021162.1	Ca_kabuli_chr03	20526423	TT	AA	1946775246
SNP_P4_32043_20526424	NC_021162.1	Ca_kabuli_chr03	20526424	TT	AA	1946775249
SNP_P4_32044_20541854	NC_021162.1	Ca_kabuli_chr03	20541854	TT	AA	1946775251
SNP_P4_32045_20542185	NC_021162.1	Ca_kabuli_chr03	20542185	TT	GG	1946775253
SNP_P4_32046_20569079	NC_021162.1	Ca_kabuli_chr03	20569079	CC	AA	1946775255
SNP_P4_32047_20576599	NC_021162.1	Ca_kabuli_chr03	20576599	TT	CC	1946775257

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_32049_20579233	NC_021162.1	Ca_kabuli_chr03	20579233	GG	AA	1946775261
SNP_P4_32050_20583223	NC_021162.1	Ca_kabuli_chr03	20583223	CC	TT	1946775264
SNP_P4_32051_20616410	NC_021162.1	Ca_kabuli_chr03	20616410	CC	TT	1946775266
SNP_P4_32052_20620903	NC_021162.1	Ca_kabuli_chr03	20620903	GG	AA	1946775268
SNP_P4_32053_20621232	NC_021162.1	Ca_kabuli_chr03	20621232	TT	AA	1946775270
SNP_P4_32054_20621269	NC_021162.1	Ca_kabuli_chr03	20621269	GG	CC	1946775272
SNP_P4_32055_20641624	NC_021162.1	Ca_kabuli_chr03	20641624	GG	AA	1946775274
SNP_P4_32056_20649654	NC_021162.1	Ca_kabuli_chr03	20649654	TT	AA	1946775276
SNP_P4_32057_20665149	NC_021162.1	Ca_kabuli_chr03	20665149	AA	GG	1946775278
SNP_P4_32058_20696874	NC_021162.1	Ca_kabuli_chr03	20696874	GG	AA	1946775280
SNP_P4_32059_20696890	NC_021162.1	Ca_kabuli_chr03	20696890	CC	TT	1946775283
SNP_P4_32060_20698888	NC_021162.1	Ca_kabuli_chr03	20698888	AA	TT	1946775285
SNP_P4_32061_20698903	NC_021162.1	Ca_kabuli_chr03	20698903	GG	AA	1946775287
SNP_P4_32062_20698911	NC_021162.1	Ca_kabuli_chr03	20698911	AA	GG	1946775291
SNP_P4_32063_20699584	NC_021162.1	Ca_kabuli_chr03	20699584	GG	AA	1946775293
SNP_P4_32064_20703473	NC_021162.1	Ca_kabuli_chr03	20703473	CC	AA	1946775295
SNP_P4_32066_20720940	NC_021162.1	Ca_kabuli_chr03	20720940	AA	GG	1946775297
SNP_P4_32067_20724295	NC_021162.1	Ca_kabuli_chr03	20724295	CC	TT	1946775299
SNP_P4_32068_20724310	NC_021162.1	Ca_kabuli_chr03	20724310	TT	CC	1946775301
SNP_P4_32069_20728620	NC_021162.1	Ca_kabuli_chr03	20728620	AA	GG	1946775303
SNP_P4_32070_20728629	NC_021162.1	Ca_kabuli_chr03	20728629	GG	AA	1946775305
SNP_P4_32071_20728764	NC_021162.1	Ca_kabuli_chr03	20728764	CC	AA	1946775307
SNP_P4_32072_20729129	NC_021162.1	Ca_kabuli_chr03	20729129	GG	CC	1946775309
SNP_P4_32073_20729164	NC_021162.1	Ca_kabuli_chr03	20729164	AA	GG	1946775311
SNP_P4_32074_20729213	NC_021162.1	Ca_kabuli_chr03	20729213	AA	TT	1946775313
SNP_P4_32075_20730674	NC_021162.1	Ca_kabuli_chr03	20730674	AA	CC	1946775315
SNP_P4_32076_20730679	NC_021162.1	Ca_kabuli_chr03	20730679	GG	AA	1946775317
SNP_P4_32077_20730721	NC_021162.1	Ca_kabuli_chr03	20730721	GG	TT	1946775319
SNP_P4_32078_20730724	NC_021162.1	Ca_kabuli_chr03	20730724	TT	GG	1946775321
SNP_P4_32079_20730734	NC_021162.1	Ca_kabuli_chr03	20730734	CC	TT	1946775324
SNP_P4_32080_20731027	NC_021162.1	Ca_kabuli_chr03	20731027	CC	TT	1946775326
SNP_P4_32081_20731074	NC_021162.1	Ca_kabuli_chr03	20731074	AA	GG	1946775328
SNP_P4_32082_20738578	NC_021162.1	Ca_kabuli_chr03	20738578	TT	CC	1946775330
SNP_P4_32083_20738789	NC_021162.1	Ca_kabuli_chr03	20738789	CC	TT	1946775332
SNP_P4_32084_20738820	NC_021162.1	Ca_kabuli_chr03	20738820	CC	TT	1946775335
SNP_P4_32085_20739053	NC_021162.1	Ca_kabuli_chr03	20739053	GG	TT	1946775337
SNP_P4_32086_20739423	NC_021162.1	Ca_kabuli_chr03	20739423	CC	TT	1946775339
SNP_P4_32087_20744087	NC_021162.1	Ca_kabuli_chr03	20744087	CC	TT	1946775341
SNP_P4_32088_20744226	NC_021162.1	Ca_kabuli_chr03	20744226	AA	GG	1946775343
SNP_P4_32089_20744412	NC_021162.1	Ca_kabuli_chr03	20744412	AA	TT	1946775345
SNP_P4_32090_20744414	NC_021162.1	Ca_kabuli_chr03	20744414	TT	CC	1946775347

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_32091_20744423	NC_021162.1	Ca_kabuli_chr03	20744423	AA	GG	1946775349
SNP_P4_32092_20744425	NC_021162.1	Ca_kabuli_chr03	20744425	TT	CC	1946775352
SNP_P4_32093_20744433	NC_021162.1	Ca_kabuli_chr03	20744433	AA	GG	1946775354
SNP_P4_32094_20744474	NC_021162.1	Ca_kabuli_chr03	20744474	TT	GG	1946775356
SNP_P4_32095_20744515	NC_021162.1	Ca_kabuli_chr03	20744515	AA	TT	1946775358
SNP_P4_32096_20744525	NC_021162.1	Ca_kabuli_chr03	20744525	GG	AA	1946775360
SNP_P4_32097_20744550	NC_021162.1	Ca_kabuli_chr03	20744550	GG	CC	1946775362
SNP_P4_32098_20746110	NC_021162.1	Ca_kabuli_chr03	20746110	TT	AA	1946775364
SNP_P4_32099_20751055	NC_021162.1	Ca_kabuli_chr03	20751055	AA	TT	1946775366
SNP_P4_32100_20793067	NC_021162.1	Ca_kabuli_chr03	20793067	GG	AA	1946775369
SNP_P4_32101_20800018	NC_021162.1	Ca_kabuli_chr03	20800018	GG	AA	1946775371
SNP_P4_32102_20847880	NC_021162.1	Ca_kabuli_chr03	20847880	TT	GG	1946775373
SNP_P4_32103_20848781	NC_021162.1	Ca_kabuli_chr03	20848781	GG	TT	1946775375
SNP_P4_32104_20860226	NC_021162.1	Ca_kabuli_chr03	20860226	CC	TT	1946775377
SNP_P4_32105_20894408	NC_021162.1	Ca_kabuli_chr03	20894408	CC	TT	1946775379
SNP_P4_32106_20896548	NC_021162.1	Ca_kabuli_chr03	20896548	AA	CC	1946775381
SNP_P4_32107_20896563	NC_021162.1	Ca_kabuli_chr03	20896563	AA	GG	1946775383
SNP_P4_32108_20896581	NC_021162.1	Ca_kabuli_chr03	20896581	GG	AA	1946775385
SNP_P4_32109_20896610	NC_021162.1	Ca_kabuli_chr03	20896610	TT	AA	1946775387
SNP_P4_32110_20902283	NC_021162.1	Ca_kabuli_chr03	20902283	TT	CC	1946775389
SNP_P4_32111_20913600	NC_021162.1	Ca_kabuli_chr03	20913600	CC	TT	1946775391
SNP_P4_32112_20913615	NC_021162.1	Ca_kabuli_chr03	20913615	CC	TT	1946775393
SNP_P4_32113_20914028	NC_021162.1	Ca_kabuli_chr03	20914028	AA	GG	1946775395
SNP_P4_32114_20928256	NC_021162.1	Ca_kabuli_chr03	20928256	CC	TT	1946775397
SNP_P4_32115_20933563	NC_021162.1	Ca_kabuli_chr03	20933563	AA	GG	1946775399
SNP_P4_32116_20933572	NC_021162.1	Ca_kabuli_chr03	20933572	CC	GG	1946775401
SNP_P4_32117_20933613	NC_021162.1	Ca_kabuli_chr03	20933613	TT	CC	1946775403
SNP_P4_32118_20933618	NC_021162.1	Ca_kabuli_chr03	20933618	TT	AA	1946775405
SNP_P4_32119_20940587	NC_021162.1	Ca_kabuli_chr03	20940587	CC	TT	1946775408
SNP_P4_32120_20940618	NC_021162.1	Ca_kabuli_chr03	20940618	CC	GG	1946775410
SNP_P4_32122_20944439	NC_021162.1	Ca_kabuli_chr03	20944439	GG	AA	1946775412
SNP_P4_32123_20944443	NC_021162.1	Ca_kabuli_chr03	20944443	TT	GG	1946775414
SNP_P4_32124_20947300	NC_021162.1	Ca_kabuli_chr03	20947300	AA	GG	1946775416
SNP_P4_32125_20947327	NC_021162.1	Ca_kabuli_chr03	20947327	AA	TT	1946775418
SNP_P4_32126_20951796	NC_021162.1	Ca_kabuli_chr03	20951796	AA	TT	1946775421
SNP_P4_32127_20991955	NC_021162.1	Ca_kabuli_chr03	20991955	TT	CC	1946775423
SNP_P4_32129_20997416	NC_021162.1	Ca_kabuli_chr03	20997416	AA	GG	1946775425
SNP_P4_32131_21048925	NC_021162.1	Ca_kabuli_chr03	21048925	TT	GG	1946775427
SNP_P4_32132_21049601	NC_021162.1	Ca_kabuli_chr03	21049601	CC	TT	1946775429
SNP_P4_32133_21060357	NC_021162.1	Ca_kabuli_chr03	21060357	AA	CC	1946775431
SNP_P4_32134_21060358	NC_021162.1	Ca_kabuli_chr03	21060358	CC	AA	1946775433
SNP_P4_32135_21063203	NC_021162.1	Ca_kabuli_chr03	21063203	CC	TT	1946775435

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_32137_21066574	NC_021162.1	Ca_kabuli_chr03	21066574	AA	CC	1946775439
SNP_P4_32138_21066575	NC_021162.1	Ca_kabuli_chr03	21066575	TT	CC	1946775441
SNP_P4_32139_21067143	NC_021162.1	Ca_kabuli_chr03	21067143	CC	TT	1946775443
SNP_P4_32140_21069111	NC_021162.1	Ca_kabuli_chr03	21069111	CC	AA	1946775445
SNP_P4_32141_21069148	NC_021162.1	Ca_kabuli_chr03	21069148	CC	TT	1946775447
SNP_P4_32142_21071853	NC_021162.1	Ca_kabuli_chr03	21071853	GG	TT	1946775450
SNP_P4_32143_21086854	NC_021162.1	Ca_kabuli_chr03	21086854	TT	CC	1946775452
SNP_P4_32144_21086860	NC_021162.1	Ca_kabuli_chr03	21086860	TT	CC	1946775454
SNP_P4_32145_21087095	NC_021162.1	Ca_kabuli_chr03	21087095	AA	GG	1946775456
SNP_P4_32148_21093947	NC_021162.1	Ca_kabuli_chr03	21093947	GG	TT	1946775458
SNP_P4_32149_21094760	NC_021162.1	Ca_kabuli_chr03	21094760	AA	TT	1946775460
SNP_P4_32151_21111636	NC_021162.1	Ca_kabuli_chr03	21111636	CC	TT	1946775462
SNP_P4_32153_21146308	NC_021162.1	Ca_kabuli_chr03	21146308	AA	CC	1946775464
SNP_P4_32154_21154678	NC_021162.1	Ca_kabuli_chr03	21154678	AA	TT	1946775466
SNP_P4_32155_21157098	NC_021162.1	Ca_kabuli_chr03	21157098	CC	AA	1946775468
SNP_P4_32156_21169549	NC_021162.1	Ca_kabuli_chr03	21169549	AA	CC	1946775470
SNP_P4_32157_21186528	NC_021162.1	Ca_kabuli_chr03	21186528	CC	TT	1946775472
SNP_P4_32158_21186542	NC_021162.1	Ca_kabuli_chr03	21186542	CC	AA	1946775475
SNP_P4_32159_21186782	NC_021162.1	Ca_kabuli_chr03	21186782	TT	GG	1946775477
SNP_P4_32160_21186796	NC_021162.1	Ca_kabuli_chr03	21186796	GG	AA	1946775479
SNP_P4_32161_21186822	NC_021162.1	Ca_kabuli_chr03	21186822	TT	AA	1946775481
SNP_P4_32162_21186823	NC_021162.1	Ca_kabuli_chr03	21186823	TT	CC	1946775483
SNP_P4_32164_21194057	NC_021162.1	Ca_kabuli_chr03	21194057	AA	GG	1946775485
SNP_P4_32166_21298942	NC_021162.1	Ca_kabuli_chr03	21298942	CC	AA	1946775487
SNP_P4_32167_21298961	NC_021162.1	Ca_kabuli_chr03	21298961	CC	TT	1946775490
SNP_P4_32169_21321455	NC_021162.1	Ca_kabuli_chr03	21321455	TT	CC	1946775492
SNP_P4_32170_21321491	NC_021162.1	Ca_kabuli_chr03	21321491	AA	GG	1946775494
SNP_P4_32171_21321534	NC_021162.1	Ca_kabuli_chr03	21321534	AA	GG	1946775496
SNP_P4_32172_21321712	NC_021162.1	Ca_kabuli_chr03	21321712	CC	TT	1946775498
SNP_P4_32173_21322272	NC_021162.1	Ca_kabuli_chr03	21322272	GG	AA	1946775500
SNP_P4_32174_21323594	NC_021162.1	Ca_kabuli_chr03	21323594	AA	GG	1946775502
SNP_P4_32175_21331362	NC_021162.1	Ca_kabuli_chr03	21331362	CC	TT	1946775504
SNP_P4_32176_21331365	NC_021162.1	Ca_kabuli_chr03	21331365	TT	CC	1946775506
SNP_P4_32177_21331803	NC_021162.1	Ca_kabuli_chr03	21331803	AA	GG	1946775508
SNP_P4_32178_21356990	NC_021162.1	Ca_kabuli_chr03	21356990	GG	TT	1946775510
SNP_P4_32179_21357464	NC_021162.1	Ca_kabuli_chr03	21357464	TT	CC	1946775512
SNP_P4_32180_21357474	NC_021162.1	Ca_kabuli_chr03	21357474	AA	TT	1946775515
SNP_P4_32181_21357492	NC_021162.1	Ca_kabuli_chr03	21357492	TT	CC	1946775517
SNP_P4_32182_21357528	NC_021162.1	Ca_kabuli_chr03	21357528	AA	GG	1946775519
SNP_P4_32184_21418395	NC_021162.1	Ca_kabuli_chr03	21418395	GG	AA	1946775521
SNP_P4_32185_21419252	NC_021162.1	Ca_kabuli_chr03	21419252	AA	GG	1946775524

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_32186_21422167	NC_021162.1	Ca_kabuli_chr03	21422167	TT	GG	1946775526
SNP_P4_32187_21422190	NC_021162.1	Ca_kabuli_chr03	21422190	TT	CC	1946775528
SNP_P4_32188_21426672	NC_021162.1	Ca_kabuli_chr03	21426672	AA	CC	1946775530
SNP_P4_32189_21430425	NC_021162.1	Ca_kabuli_chr03	21430425	GG	CC	1946775532
SNP_P4_32191_21481051	NC_021162.1	Ca_kabuli_chr03	21481051	AA	TT	1946775534
SNP_P4_32194_21489653	NC_021162.1	Ca_kabuli_chr03	21489653	TT	CC	1946775536
SNP_P4_32195_21489964	NC_021162.1	Ca_kabuli_chr03	21489964	CC	TT	1946775538
SNP_P4_32196_21517571	NC_021162.1	Ca_kabuli_chr03	21517571	CC	AA	1946775540
SNP_P4_32197_21529582	NC_021162.1	Ca_kabuli_chr03	21529582	CC	TT	1946775543
SNP_P4_32198_21554343	NC_021162.1	Ca_kabuli_chr03	21554343	AA	GG	1946775545
SNP_P4_32199_21583417	NC_021162.1	Ca_kabuli_chr03	21583417	CC	AA	1946775547
SNP_P4_32200_21583495	NC_021162.1	Ca_kabuli_chr03	21583495	CC	TT	1946775550
SNP_P4_32201_21583604	NC_021162.1	Ca_kabuli_chr03	21583604	AA	TT	1946775552
SNP_P4_32202_21583609	NC_021162.1	Ca_kabuli_chr03	21583609	TT	AA	1946775554
SNP_P4_32203_21583610	NC_021162.1	Ca_kabuli_chr03	21583610	GG	AA	1946775556
SNP_P4_32204_21583629	NC_021162.1	Ca_kabuli_chr03	21583629	AA	TT	1946775558
SNP_P4_32205_21583925	NC_021162.1	Ca_kabuli_chr03	21583925	TT	CC	1946775560
SNP_P4_32206_21583945	NC_021162.1	Ca_kabuli_chr03	21583945	CC	TT	1946775563
SNP_P4_32207_21617178	NC_021162.1	Ca_kabuli_chr03	21617178	AA	GG	1946775566
SNP_P4_32208_21635312	NC_021162.1	Ca_kabuli_chr03	21635312	AA	TT	1946775569
SNP_P4_32209_21635387	NC_021162.1	Ca_kabuli_chr03	21635387	CC	AA	1946775572
SNP_P4_32210_21635388	NC_021162.1	Ca_kabuli_chr03	21635388	AA	TT	1946775574
SNP_P4_32211_21635390	NC_021162.1	Ca_kabuli_chr03	21635390	AA	GG	1946775576
SNP_P4_32212_21635417	NC_021162.1	Ca_kabuli_chr03	21635417	GG	TT	1946775578
SNP_P4_32213_21635466	NC_021162.1	Ca_kabuli_chr03	21635466	AA	GG	1946775580
SNP_P4_32215_21635661	NC_021162.1	Ca_kabuli_chr03	21635661	GG	TT	1946775582
SNP_P4_32216_21635673	NC_021162.1	Ca_kabuli_chr03	21635673	AA	TT	1946775584
SNP_P4_32217_21635675	NC_021162.1	Ca_kabuli_chr03	21635675	GG	AA	1946775586
SNP_P4_32218_21635688	NC_021162.1	Ca_kabuli_chr03	21635688	AA	GG	1946775588
SNP_P4_32219_21635744	NC_021162.1	Ca_kabuli_chr03	21635744	TT	AA	1946775590
SNP_P4_32220_21635766	NC_021162.1	Ca_kabuli_chr03	21635766	TT	CC	1946775592
SNP_P4_32221_21635852	NC_021162.1	Ca_kabuli_chr03	21635852	GG	TT	1946775594
SNP_P4_32222_21635859	NC_021162.1	Ca_kabuli_chr03	21635859	GG	TT	1946775596
SNP_P4_32223_21635875	NC_021162.1	Ca_kabuli_chr03	21635875	GG	AA	1946775598
SNP_P4_32225_21636945	NC_021162.1	Ca_kabuli_chr03	21636945	CC	TT	1946775600
SNP_P4_32226_21674619	NC_021162.1	Ca_kabuli_chr03	21674619	GG	AA	1946775602
SNP_P4_32228_21715410	NC_021162.1	Ca_kabuli_chr03	21715410	CC	GG	1946775604
SNP_P4_32229_21722597	NC_021162.1	Ca_kabuli_chr03	21722597	AA	GG	1946775606
SNP_P4_32230_21741769	NC_021162.1	Ca_kabuli_chr03	21741769	TT	CC	1946775608
SNP_P4_32231_21816688	NC_021162.1	Ca_kabuli_chr03	21816688	CC	TT	1946775611
SNP_P4_32232_21818936	NC_021162.1	Ca_kabuli_chr03	21818936	CC	TT	1946775613
SNP_P4_32233_21870718	NC_021162.1	Ca_kabuli_chr03	21870718	AA	CC	1946775615

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_32236_21877591	NC_021162.1	Ca_kabuli_chr03	21877591	CC	TT	1946775619
SNP_P4_32237_21880415	NC_021162.1	Ca_kabuli_chr03	21880415	TT	AA	1946775621
SNP_P4_32238_21881092	NC_021162.1	Ca_kabuli_chr03	21881092	GG	AA	1946775623
SNP_P4_32239_21881295	NC_021162.1	Ca_kabuli_chr03	21881295	AA	GG	1946775625
SNP_P4_32240_21881414	NC_021162.1	Ca_kabuli_chr03	21881414	AA	GG	1946775627
SNP_P4_32241_21882109	NC_021162.1	Ca_kabuli_chr03	21882109	GG	CC	1946775629
SNP_P4_32242_21883789	NC_021162.1	Ca_kabuli_chr03	21883789	GG	AA	1946775631
SNP_P4_32243_21885730	NC_021162.1	Ca_kabuli_chr03	21885730	GG	AA	1946775633
SNP_P4_32244_21885772	NC_021162.1	Ca_kabuli_chr03	21885772	AA	CC	1946775635
SNP_P4_32245_21885775	NC_021162.1	Ca_kabuli_chr03	21885775	AA	GG	1946775637
SNP_P4_32246_21886198	NC_021162.1	Ca_kabuli_chr03	21886198	GG	AA	1946775639
SNP_P4_32247_21886602	NC_021162.1	Ca_kabuli_chr03	21886602	AA	GG	1946775642
SNP_P4_32248_21887525	NC_021162.1	Ca_kabuli_chr03	21887525	TT	GG	1946775644
SNP_P4_32249_21887705	NC_021162.1	Ca_kabuli_chr03	21887705	GG	AA	1946775646
SNP_P4_32250_21890831	NC_021162.1	Ca_kabuli_chr03	21890831	TT	CC	1946775648
SNP_P4_32251_21891241	NC_021162.1	Ca_kabuli_chr03	21891241	TT	GG	1946775650
SNP_P4_32252_21891664	NC_021162.1	Ca_kabuli_chr03	21891664	TT	CC	1946775652
SNP_P4_32253_21891697	NC_021162.1	Ca_kabuli_chr03	21891697	AA	CC	1946775654
SNP_P4_32254_21891708	NC_021162.1	Ca_kabuli_chr03	21891708	CC	TT	1946775656
SNP_P4_32255_21891716	NC_021162.1	Ca_kabuli_chr03	21891716	AA	GG	1946775658
SNP_P4_32256_21891764	NC_021162.1	Ca_kabuli_chr03	21891764	GG	AA	1946775660
SNP_P4_32257_21891798	NC_021162.1	Ca_kabuli_chr03	21891798	GG	TT	1946775663
SNP_P4_32258_21892123	NC_021162.1	Ca_kabuli_chr03	21892123	AA	TT	1946775665
SNP_P4_32259_21892130	NC_021162.1	Ca_kabuli_chr03	21892130	TT	CC	1946775667
SNP_P4_32260_21892171	NC_021162.1	Ca_kabuli_chr03	21892171	CC	TT	1946775669
SNP_P4_32262_21893100	NC_021162.1	Ca_kabuli_chr03	21893100	GG	TT	1946775671
SNP_P4_32263_21895702	NC_021162.1	Ca_kabuli_chr03	21895702	CC	TT	1946775673
SNP_P4_32264_21895883	NC_021162.1	Ca_kabuli_chr03	21895883	AA	TT	1946775676
SNP_P4_32266_21898771	NC_021162.1	Ca_kabuli_chr03	21898771	AA	CC	1946775678
SNP_P4_32268_21900017	NC_021162.1	Ca_kabuli_chr03	21900017	CC	AA	1946775680
SNP_P4_32269_21904319	NC_021162.1	Ca_kabuli_chr03	21904319	AA	GG	1946775682
SNP_P4_32270_21904374	NC_021162.1	Ca_kabuli_chr03	21904374	AA	CC	1946775684
SNP_P4_32271_21922688	NC_021162.1	Ca_kabuli_chr03	21922688	TT	CC	1946775686
SNP_P4_32272_21938152	NC_021162.1	Ca_kabuli_chr03	21938152	GG	AA	1946775688
SNP_P4_32273_21945773	NC_021162.1	Ca_kabuli_chr03	21945773	AA	TT	1946775691
SNP_P4_32274_21945774	NC_021162.1	Ca_kabuli_chr03	21945774	TT	AA	1946775693
SNP_P4_32275_21945790	NC_021162.1	Ca_kabuli_chr03	21945790	TT	CC	1946775695
SNP_P4_32276_21955911	NC_021162.1	Ca_kabuli_chr03	21955911	AA	TT	1946775697
SNP_P4_32277_21969565	NC_021162.1	Ca_kabuli_chr03	21969565	AA	GG	1946775699
SNP_P4_32279_21994535	NC_021162.1	Ca_kabuli_chr03	21994535	GG	AA	1946775701
SNP_P4_32280_22010623	NC_021162.1	Ca_kabuli_chr03	22010623	GG	AA	1946775703

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_32282_22029335	NC_021162.1	Ca_kabuli_chr03	22029335	GG	AA	1946775707
SNP_P4_32283_22048546	NC_021162.1	Ca_kabuli_chr03	22048546	GG	AA	1946775709
SNP_P4_32284_22071037	NC_021162.1	Ca_kabuli_chr03	22071037	GG	AA	1946775711
SNP_P4_32287_22101038	NC_021162.1	Ca_kabuli_chr03	22101038	TT	GG	1946775713
SNP_P4_32289_22125361	NC_021162.1	Ca_kabuli_chr03	22125361	TT	CC	1946775715
SNP_P4_32290_22125375	NC_021162.1	Ca_kabuli_chr03	22125375	AA	TT	1946775717
SNP_P4_32291_22130178	NC_021162.1	Ca_kabuli_chr03	22130178	AA	GG	1946775720
SNP_P4_32292_22130250	NC_021162.1	Ca_kabuli_chr03	22130250	AA	GG	1946775723
SNP_P4_32293_22130312	NC_021162.1	Ca_kabuli_chr03	22130312	CC	TT	1946775726
SNP_P4_32294_22130333	NC_021162.1	Ca_kabuli_chr03	22130333	AA	GG	1946775728
SNP_P4_32295_22130334	NC_021162.1	Ca_kabuli_chr03	22130334	AA	GG	1946775730
SNP_P4_32296_22130343	NC_021162.1	Ca_kabuli_chr03	22130343	GG	TT	1946775732
SNP_P4_32297_22130356	NC_021162.1	Ca_kabuli_chr03	22130356	AA	TT	1946775734
SNP_P4_32298_22130466	NC_021162.1	Ca_kabuli_chr03	22130466	GG	AA	1946775736
SNP_P4_32299_22130661	NC_021162.1	Ca_kabuli_chr03	22130661	GG	AA	1946775738
SNP_P4_32300_22130682	NC_021162.1	Ca_kabuli_chr03	22130682	CC	AA	1946775740
SNP_P4_32301_22130697	NC_021162.1	Ca_kabuli_chr03	22130697	AA	GG	1946775743
SNP_P4_32302_22130712	NC_021162.1	Ca_kabuli_chr03	22130712	AA	GG	1946775745
SNP_P4_32303_22130751	NC_021162.1	Ca_kabuli_chr03	22130751	AA	GG	1946775747
SNP_P4_32305_22143613	NC_021162.1	Ca_kabuli_chr03	22143613	CC	TT	1946775749
SNP_P4_32306_22145693	NC_021162.1	Ca_kabuli_chr03	22145693	GG	CC	1946775752
SNP_P4_32307_22159469	NC_021162.1	Ca_kabuli_chr03	22159469	CC	GG	1946775754
SNP_P4_32309_22163457	NC_021162.1	Ca_kabuli_chr03	22163457	AA	GG	1946775756
SNP_P4_32311_22214663	NC_021162.1	Ca_kabuli_chr03	22214663	CC	GG	1946775758
SNP_P4_32312_22216617	NC_021162.1	Ca_kabuli_chr03	22216617	CC	TT	1946775760
SNP_P4_32313_22247704	NC_021162.1	Ca_kabuli_chr03	22247704	TT	AA	1946775762
SNP_P4_32314_22293593	NC_021162.1	Ca_kabuli_chr03	22293593	CC	AA	1946775764
SNP_P4_32315_22336945	NC_021162.1	Ca_kabuli_chr03	22336945	AA	GG	1946775767
SNP_P4_32316_22343847	NC_021162.1	Ca_kabuli_chr03	22343847	AA	CC	1946775769
SNP_P4_32320_22413535	NC_021162.1	Ca_kabuli_chr03	22413535	AA	GG	1946775772
SNP_P4_32321_22420648	NC_021162.1	Ca_kabuli_chr03	22420648	AA	GG	1946775774
SNP_P4_32323_22425492	NC_021162.1	Ca_kabuli_chr03	22425492	TT	CC	1946775776
SNP_P4_32324_22425495	NC_021162.1	Ca_kabuli_chr03	22425495	AA	GG	1946775778
SNP_P4_32325_22425948	NC_021162.1	Ca_kabuli_chr03	22425948	CC	TT	1946775780
SNP_P4_32326_22430988	NC_021162.1	Ca_kabuli_chr03	22430988	CC	TT	1946775782
SNP_P4_32328_22438946	NC_021162.1	Ca_kabuli_chr03	22438946	TT	AA	1946775784
SNP_P4_32329_22439155	NC_021162.1	Ca_kabuli_chr03	22439155	GG	AA	1946775786
SNP_P4_32330_22440116	NC_021162.1	Ca_kabuli_chr03	22440116	AA	TT	1946775789
SNP_P4_32331_22440566	NC_021162.1	Ca_kabuli_chr03	22440566	AA	GG	1946775791
SNP_P4_32332_22460133	NC_021162.1	Ca_kabuli_chr03	22460133	CC	TT	1946775793
SNP_P4_32334_22482848	NC_021162.1	Ca_kabuli_chr03	22482848	GG	AA	1946775795

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_32336_22483116	NC_021162.1	Ca_kabuli_chr03	22483116	TT	GG	1946775799
SNP_P4_32337_22483384	NC_021162.1	Ca_kabuli_chr03	22483384	AA	TT	1946775801
SNP_P4_32338_22485106	NC_021162.1	Ca_kabuli_chr03	22485106	CC	AA	1946775804
SNP_P4_32340_22490195	NC_021162.1	Ca_kabuli_chr03	22490195	AA	CC	1946775806
SNP_P4_32341_22507196	NC_021162.1	Ca_kabuli_chr03	22507196	CC	GG	1946775808
SNP_P4_32342_22516668	NC_021162.1	Ca_kabuli_chr03	22516668	CC	TT	1946775810
SNP_P4_32343_22522936	NC_021162.1	Ca_kabuli_chr03	22522936	CC	TT	1946775812
SNP_P4_32344_22524452	NC_021162.1	Ca_kabuli_chr03	22524452	TT	AA	1946775814
SNP_P4_32346_22535574	NC_021162.1	Ca_kabuli_chr03	22535574	AA	GG	1946775816
SNP_P4_32347_22538214	NC_021162.1	Ca_kabuli_chr03	22538214	GG	AA	1946775818
SNP_P4_32348_22546856	NC_021162.1	Ca_kabuli_chr03	22546856	CC	TT	1946775820
SNP_P4_32350_22569112	NC_021162.1	Ca_kabuli_chr03	22569112	TT	GG	1946775822
SNP_P4_32351_22587053	NC_021162.1	Ca_kabuli_chr03	22587053	AA	TT	1946775825
SNP_P4_32352_22592899	NC_021162.1	Ca_kabuli_chr03	22592899	AA	GG	1946775827
SNP_P4_32353_22599637	NC_021162.1	Ca_kabuli_chr03	22599637	GG	AA	1946775829
SNP_P4_32354_22615343	NC_021162.1	Ca_kabuli_chr03	22615343	TT	CC	1946775831
SNP_P4_32355_22620559	NC_021162.1	Ca_kabuli_chr03	22620559	AA	GG	1946775834
SNP_P4_32356_22620610	NC_021162.1	Ca_kabuli_chr03	22620610	GG	AA	1946775836
SNP_P4_32357_22628121	NC_021162.1	Ca_kabuli_chr03	22628121	AA	TT	1946775838
SNP_P4_32358_22643994	NC_021162.1	Ca_kabuli_chr03	22643994	TT	CC	1946775840
SNP_P4_32359_22644373	NC_021162.1	Ca_kabuli_chr03	22644373	AA	GG	1946775842
SNP_P4_32360_22679724	NC_021162.1	Ca_kabuli_chr03	22679724	TT	AA	1946775844
SNP_P4_32361_22700046	NC_021162.1	Ca_kabuli_chr03	22700046	CC	TT	1946775846
SNP_P4_32362_22732591	NC_021162.1	Ca_kabuli_chr03	22732591	CC	TT	1946775848
SNP_P4_32363_22742971	NC_021162.1	Ca_kabuli_chr03	22742971	GG	AA	1946775850
SNP_P4_32364_22743150	NC_021162.1	Ca_kabuli_chr03	22743150	GG	AA	1946775853
SNP_P4_32365_22757960	NC_021162.1	Ca_kabuli_chr03	22757960	TT	CC	1946775855
SNP_P4_32366_22762369	NC_021162.1	Ca_kabuli_chr03	22762369	CC	TT	1946775857
SNP_P4_32368_22836776	NC_021162.1	Ca_kabuli_chr03	22836776	AA	TT	1946775859
SNP_P4_32369_22836777	NC_021162.1	Ca_kabuli_chr03	22836777	TT	AA	1946775861
SNP_P4_32370_22838597	NC_021162.1	Ca_kabuli_chr03	22838597	TT	CC	1946775863
SNP_P4_32371_22850671	NC_021162.1	Ca_kabuli_chr03	22850671	AA	TT	1946775865
SNP_P4_32372_22875989	NC_021162.1	Ca_kabuli_chr03	22875989	TT	CC	1946775867
SNP_P4_32373_22907306	NC_021162.1	Ca_kabuli_chr03	22907306	GG	AA	1946775869
SNP_P4_32375_22935147	NC_021162.1	Ca_kabuli_chr03	22935147	TT	GG	1946775871
SNP_P4_32376_22935154	NC_021162.1	Ca_kabuli_chr03	22935154	GG	AA	1946775873
SNP_P4_32377_22948635	NC_021162.1	Ca_kabuli_chr03	22948635	AA	GG	1946775876
SNP_P4_32378_22949984	NC_021162.1	Ca_kabuli_chr03	22949984	GG	AA	1946775878
SNP_P4_32379_22957653	NC_021162.1	Ca_kabuli_chr03	22957653	AA	GG	1946775880
SNP_P4_32380_22964420	NC_021162.1	Ca_kabuli_chr03	22964420	AA	TT	1946775882
SNP_P4_32381_22978506	NC_021162.1	Ca_kabuli_chr03	22978506	TT	CC	1946775884

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_32383_23001861	NC_021162.1	Ca_kabuli_chr03	23001861	TT	GG	1946775888
SNP_P4_32384_23002053	NC_021162.1	Ca_kabuli_chr03	23002053	CC	TT	1946775890
SNP_P4_32385_23012928	NC_021162.1	Ca_kabuli_chr03	23012928	TT	GG	1946775892
SNP_P4_32386_23013246	NC_021162.1	Ca_kabuli_chr03	23013246	AA	TT	1946775895
SNP_P4_32387_23013920	NC_021162.1	Ca_kabuli_chr03	23013920	GG	AA	1946775897
SNP_P4_32389_23014136	NC_021162.1	Ca_kabuli_chr03	23014136	GG	TT	1946775899
SNP_P4_32390_23014149	NC_021162.1	Ca_kabuli_chr03	23014149	TT	GG	1946775902
SNP_P4_32391_23014151	NC_021162.1	Ca_kabuli_chr03	23014151	TT	CC	1946775905
SNP_P4_32392_23014152	NC_021162.1	Ca_kabuli_chr03	23014152	GG	AA	1946775907
SNP_P4_32393_23014178	NC_021162.1	Ca_kabuli_chr03	23014178	TT	AA	1946775909
SNP_P4_32394_23014183	NC_021162.1	Ca_kabuli_chr03	23014183	GG	CC	1946775911
SNP_P4_32395_23014194	NC_021162.1	Ca_kabuli_chr03	23014194	GG	AA	1946775913
SNP_P4_32396_23015562	NC_021162.1	Ca_kabuli_chr03	23015562	CC	AA	1946775915
SNP_P4_32398_23016959	NC_021162.1	Ca_kabuli_chr03	23016959	CC	TT	1946775917
SNP_P4_32399_23018703	NC_021162.1	Ca_kabuli_chr03	23018703	CC	AA	1946775919
SNP_P4_32400_23019096	NC_021162.1	Ca_kabuli_chr03	23019096	CC	TT	1946775921
SNP_P4_32401_23019162	NC_021162.1	Ca_kabuli_chr03	23019162	AA	TT	1946775923
SNP_P4_32402_23019184	NC_021162.1	Ca_kabuli_chr03	23019184	GG	AA	1946775925
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SNP_P4_32404_23044983	NC_021162.1	Ca_kabuli_chr03	23044983	GG	AA	1946775929
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SNP_P4_32407_23114608	NC_021162.1	Ca_kabuli_chr03	23114608	GG	AA	1946775933
SNP_P4_32408_23129377	NC_021162.1	Ca_kabuli_chr03	23129377	AA	GG	1946775936
SNP_P4_32409_23130460	NC_021162.1	Ca_kabuli_chr03	23130460	AA	GG	1946775938
SNP_P4_32410_23132107	NC_021162.1	Ca_kabuli_chr03	23132107	GG	AA	1946775940
SNP_P4_32411_23132531	NC_021162.1	Ca_kabuli_chr03	23132531	AA	GG	1946775942
SNP_P4_32412_23135272	NC_021162.1	Ca_kabuli_chr03	23135272	TT	AA	1946775944
SNP_P4_32413_23135559	NC_021162.1	Ca_kabuli_chr03	23135559	TT	GG	1946775947
SNP_P4_32416_23186784	NC_021162.1	Ca_kabuli_chr03	23186784	CC	AA	1946775949
SNP_P4_32419_23261243	NC_021162.1	Ca_kabuli_chr03	23261243	CC	AA	1946775951
SNP_P4_32421_23297021	NC_021162.1	Ca_kabuli_chr03	23297021	GG	AA	1946775953
SNP_P4_32422_23297272	NC_021162.1	Ca_kabuli_chr03	23297272	AA	GG	1946775956
SNP_P4_32423_23305981	NC_021162.1	Ca_kabuli_chr03	23305981	GG	TT	1946775958
SNP_P4_32424_23318510	NC_021162.1	Ca_kabuli_chr03	23318510	AA	TT	1946775961
SNP_P4_32425_23329914	NC_021162.1	Ca_kabuli_chr03	23329914	GG	AA	1946775963
SNP_P4_32427_23372846	NC_021162.1	Ca_kabuli_chr03	23372846	CC	TT	1946775966
SNP_P4_32428_23388388	NC_021162.1	Ca_kabuli_chr03	23388388	AA	TT	1946775968
SNP_P4_32429_23424106	NC_021162.1	Ca_kabuli_chr03	23424106	GG	AA	1946775970
SNP_P4_32430_23424149	NC_021162.1	Ca_kabuli_chr03	23424149	TT	CC	1946775972
SNP_P4_32431_23424409	NC_021162.1	Ca_kabuli_chr03	23424409	TT	GG	1946775974
SNP_P4_32432_23432755	NC_021162.1	Ca_kabuli_chr03	23432755	TT	CC	1946775976

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_32434_23446725	NC_021162.1	Ca_kabuli_chr03	23446725	AA	GG	1946775981
SNP_P4_32436_23464351	NC_021162.1	Ca_kabuli_chr03	23464351	CC	TT	1946775982
SNP_P4_32437_23484219	NC_021162.1	Ca_kabuli_chr03	23484219	CC	TT	1946775984
SNP_P4_32438_23496729	NC_021162.1	Ca_kabuli_chr03	23496729	TT	CC	1946775986
SNP_P4_32439_23496865	NC_021162.1	Ca_kabuli_chr03	23496865	GG	AA	1946775988
SNP_P4_32442_23539981	NC_021162.1	Ca_kabuli_chr03	23539981	TT	CC	1946775990
SNP_P4_32443_23541882	NC_021162.1	Ca_kabuli_chr03	23541882	TT	GG	1946775993
SNP_P4_32444_23544784	NC_021162.1	Ca_kabuli_chr03	23544784	GG	TT	1946775995
SNP_P4_32445_23544785	NC_021162.1	Ca_kabuli_chr03	23544785	TT	AA	1946775998
SNP_P4_32446_23547289	NC_021162.1	Ca_kabuli_chr03	23547289	GG	AA	1946776000
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SNP_P4_32450_23606300	NC_021162.1	Ca_kabuli_chr03	23606300	AA	GG	1946776006
SNP_P4_32451_23606335	NC_021162.1	Ca_kabuli_chr03	23606335	TT	CC	1946776008
SNP_P4_32452_23606339	NC_021162.1	Ca_kabuli_chr03	23606339	TT	GG	1946776010
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SNP_P4_32455_23652896	NC_021162.1	Ca_kabuli_chr03	23652896	GG	AA	1946776015
SNP_P4_32457_23654371	NC_021162.1	Ca_kabuli_chr03	23654371	AA	GG	1946776017
SNP_P4_32458_23657840	NC_021162.1	Ca_kabuli_chr03	23657840	CC	TT	1946776019
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SNP_P4_32461_23686357	NC_021162.1	Ca_kabuli_chr03	23686357	AA	GG	1946776025
SNP_P4_32462_23690166	NC_021162.1	Ca_kabuli_chr03	23690166	GG	AA	1946776027
SNP_P4_32463_23703274	NC_021162.1	Ca_kabuli_chr03	23703274	AA	GG	1946776029
SNP_P4_32464_23711816	NC_021162.1	Ca_kabuli_chr03	23711816	TT	CC	1946776031
SNP_P4_32465_23724278	NC_021162.1	Ca_kabuli_chr03	23724278	CC	TT	1946776035
SNP_P4_32466_23734823	NC_021162.1	Ca_kabuli_chr03	23734823	GG	AA	1946776037
SNP_P4_32467_23736501	NC_021162.1	Ca_kabuli_chr03	23736501	CC	AA	1946776039
SNP_P4_32468_23736748	NC_021162.1	Ca_kabuli_chr03	23736748	CC	AA	1946776041
SNP_P4_32469_23737974	NC_021162.1	Ca_kabuli_chr03	23737974	CC	TT	1946776043
SNP_P4_32470_23738006	NC_021162.1	Ca_kabuli_chr03	23738006	GG	AA	1946776045
SNP_P4_32471_23738807	NC_021162.1	Ca_kabuli_chr03	23738807	CC	TT	1946776047
SNP_P4_32472_23738808	NC_021162.1	Ca_kabuli_chr03	23738808	AA	TT	1946776049
SNP_P4_32473_23760956	NC_021162.1	Ca_kabuli_chr03	23760956	GG	AA	1946776051
SNP_P4_32474_23761089	NC_021162.1	Ca_kabuli_chr03	23761089	AA	GG	1946776053
SNP_P4_32475_23761136	NC_021162.1	Ca_kabuli_chr03	23761136	TT	GG	1946776055
SNP_P4_32476_23761575	NC_021162.1	Ca_kabuli_chr03	23761575	TT	CC	1946776057
SNP_P4_32477_23761585	NC_021162.1	Ca_kabuli_chr03	23761585	AA	CC	1946776059
SNP_P4_32478_23794010	NC_021162.1	Ca_kabuli_chr03	23794010	GG	AA	1946776061
SNP_P4_32479_23795665	NC_021162.1	Ca_kabuli_chr03	23795665	AA	CC	1946776063
SNP_P4_32480_23795667	NC_021162.1	Ca_kabuli_chr03	23795667	CC	TT	1946776065

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_32481_23795690	NC_021162.1	Ca_kabuli_chr03	23795690	AA	TT	1946776067
SNP_P4_32482_23795693	NC_021162.1	Ca_kabuli_chr03	23795693	GG	AA	1946776069
SNP_P4_32483_23795694	NC_021162.1	Ca_kabuli_chr03	23795694	GG	AA	1946776071
SNP_P4_32484_23795702	NC_021162.1	Ca_kabuli_chr03	23795702	AA	GG	1946776073
SNP_P4_32485_23805262	NC_021162.1	Ca_kabuli_chr03	23805262	CC	TT	1946776076
SNP_P4_32487_23839485	NC_021162.1	Ca_kabuli_chr03	23839485	TT	GG	1946776078
SNP_P4_32488_23841428	NC_021162.1	Ca_kabuli_chr03	23841428	TT	CC	1946776080
SNP_P4_32489_23854353	NC_021162.1	Ca_kabuli_chr03	23854353	AA	TT	1946776082
SNP_P4_32490_23854742	NC_021162.1	Ca_kabuli_chr03	23854742	GG	TT	1946776084
SNP_P4_32491_23857333	NC_021162.1	Ca_kabuli_chr03	23857333	GG	TT	1946776086
SNP_P4_32492_23858191	NC_021162.1	Ca_kabuli_chr03	23858191	TT	CC	1946776088
SNP_P4_32493_23863491	NC_021162.1	Ca_kabuli_chr03	23863491	TT	GG	1946776090
SNP_P4_32494_23863816	NC_021162.1	Ca_kabuli_chr03	23863816	CC	AA	1946776093
SNP_P4_32497_23885674	NC_021162.1	Ca_kabuli_chr03	23885674	CC	TT	1946776095
SNP_P4_32498_23887445	NC_021162.1	Ca_kabuli_chr03	23887445	AA	CC	1946776097
SNP_P4_32500_23912427	NC_021162.1	Ca_kabuli_chr03	23912427	AA	GG	1946776099
SNP_P4_32501_23945749	NC_021162.1	Ca_kabuli_chr03	23945749	AA	GG	1946776101
SNP_P4_32502_23945795	NC_021162.1	Ca_kabuli_chr03	23945795	TT	AA	1946776103
SNP_P4_32503_23945807	NC_021162.1	Ca_kabuli_chr03	23945807	TT	AA	1946776105
SNP_P4_32504_23945816	NC_021162.1	Ca_kabuli_chr03	23945816	GG	AA	1946776108
SNP_P4_32505_23945828	NC_021162.1	Ca_kabuli_chr03	23945828	AA	CC	1946776110
SNP_P4_32506_23945832	NC_021162.1	Ca_kabuli_chr03	23945832	CC	TT	1946776112
SNP_P4_32507_23945836	NC_021162.1	Ca_kabuli_chr03	23945836	GG	TT	1946776114
SNP_P4_32508_23945874	NC_021162.1	Ca_kabuli_chr03	23945874	CC	TT	1946776116
SNP_P4_32509_23945919	NC_021162.1	Ca_kabuli_chr03	23945919	TT	GG	1946776118
SNP_P4_32510_23945931	NC_021162.1	Ca_kabuli_chr03	23945931	AA	GG	1946776120
SNP_P4_32511_23945963	NC_021162.1	Ca_kabuli_chr03	23945963	AA	GG	1946776122
SNP_P4_32512_23946006	NC_021162.1	Ca_kabuli_chr03	23946006	AA	GG	1946776124
SNP_P4_32513_23946018	NC_021162.1	Ca_kabuli_chr03	23946018	GG	AA	1946776126
SNP_P4_32514_23946041	NC_021162.1	Ca_kabuli_chr03	23946041	TT	AA	1946776127
SNP_P4_32515_23946157	NC_021162.1	Ca_kabuli_chr03	23946157	TT	GG	1946776128
SNP_P4_32516_23946300	NC_021162.1	Ca_kabuli_chr03	23946300	TT	CC	1946776129
SNP_P4_32517_23946301	NC_021162.1	Ca_kabuli_chr03	23946301	TT	CC	1946776130
SNP_P4_32518_23946309	NC_021162.1	Ca_kabuli_chr03	23946309	TT	GG	1946776131
SNP_P4_32519_23946317	NC_021162.1	Ca_kabuli_chr03	23946317	GG	AA	1946776132
SNP_P4_32520_23946416	NC_021162.1	Ca_kabuli_chr03	23946416	TT	CC	1946776133
SNP_P4_32521_23946486	NC_021162.1	Ca_kabuli_chr03	23946486	CC	TT	1946776134
SNP_P4_32522_23948711	NC_021162.1	Ca_kabuli_chr03	23948711	AA	CC	1946776135
SNP_P4_32523_23948970	NC_021162.1	Ca_kabuli_chr03	23948970	AA	CC	1946776136
SNP_P4_32524_23948977	NC_021162.1	Ca_kabuli_chr03	23948977	TT	GG	1946776139
SNP_P4_32525_23949003	NC_021162.1	Ca_kabuli_chr03	23949003	TT	CC	1946776141
SNP_P4_32526_23949010	NC_021162.1	Ca_kabuli_chr03	23949010	GG	AA	1946776143

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_32528_23949055	NC_021162.1	Ca_kabuli_chr03	23949055	TT	CC	1946776147
SNP_P4_32529_23949058	NC_021162.1	Ca_kabuli_chr03	23949058	TT	GG	1946776149
SNP_P4_32530_23949059	NC_021162.1	Ca_kabuli_chr03	23949059	TT	CC	1946776151
SNP_P4_32531_23949080	NC_021162.1	Ca_kabuli_chr03	23949080	AA	GG	1946776153
SNP_P4_32532_23949316	NC_021162.1	Ca_kabuli_chr03	23949316	TT	AA	1946776156
SNP_P4_32533_23949364	NC_021162.1	Ca_kabuli_chr03	23949364	AA	GG	1946776158
SNP_P4_32534_23949501	NC_021162.1	Ca_kabuli_chr03	23949501	TT	CC	1946776160
SNP_P4_32535_23949503	NC_021162.1	Ca_kabuli_chr03	23949503	TT	CC	1946776162
SNP_P4_32536_23949510	NC_021162.1	Ca_kabuli_chr03	23949510	TT	CC	1946776164
SNP_P4_32537_23949517	NC_021162.1	Ca_kabuli_chr03	23949517	GG	AA	1946776166
SNP_P4_32538_23949813	NC_021162.1	Ca_kabuli_chr03	23949813	CC	TT	1946776168
SNP_P4_32539_23965230	NC_021162.1	Ca_kabuli_chr03	23965230	AA	GG	1946776171
SNP_P4_32540_23965441	NC_021162.1	Ca_kabuli_chr03	23965441	TT	AA	1946776174
SNP_P4_32541_23992612	NC_021162.1	Ca_kabuli_chr03	23992612	AA	GG	1946776176
SNP_P4_32544_24010837	NC_021162.1	Ca_kabuli_chr03	24010837	TT	AA	1946776178
SNP_P4_32545_24018767	NC_021162.1	Ca_kabuli_chr03	24018767	GG	TT	1946776180
SNP_P4_32546_24032461	NC_021162.1	Ca_kabuli_chr03	24032461	CC	TT	1946776182
SNP_P4_32548_24057480	NC_021162.1	Ca_kabuli_chr03	24057480	TT	GG	1946776184
SNP_P4_32549_24071433	NC_021162.1	Ca_kabuli_chr03	24071433	CC	AA	1946776186
SNP_P4_32550_24082411	NC_021162.1	Ca_kabuli_chr03	24082411	TT	CC	1946776189
SNP_P4_32551_24109797	NC_021162.1	Ca_kabuli_chr03	24109797	AA	CC	1946776191
SNP_P4_32552_24112327	NC_021162.1	Ca_kabuli_chr03	24112327	CC	TT	1946776193
SNP_P4_32553_24112679	NC_021162.1	Ca_kabuli_chr03	24112679	TT	CC	1946776195
SNP_P4_32554_24112686	NC_021162.1	Ca_kabuli_chr03	24112686	TT	AA	1946776197
SNP_P4_32555_24130368	NC_021162.1	Ca_kabuli_chr03	24130368	CC	TT	1946776199
SNP_P4_32556_24135454	NC_021162.1	Ca_kabuli_chr03	24135454	AA	CC	1946776201
SNP_P4_32557_24151582	NC_021162.1	Ca_kabuli_chr03	24151582	GG	AA	1946776203
SNP_P4_32558_24152983	NC_021162.1	Ca_kabuli_chr03	24152983	AA	TT	1946776206
SNP_P4_32559_24156800	NC_021162.1	Ca_kabuli_chr03	24156800	AA	TT	1946776208
SNP_P4_32561_24168024	NC_021162.1	Ca_kabuli_chr03	24168024	GG	TT	1946776210
SNP_P4_32563_24174639	NC_021162.1	Ca_kabuli_chr03	24174639	TT	GG	1946776212
SNP_P4_32564_24174651	NC_021162.1	Ca_kabuli_chr03	24174651	AA	GG	1946776214
SNP_P4_32565_24174652	NC_021162.1	Ca_kabuli_chr03	24174652	TT	CC	1946776216
SNP_P4_32566_24175087	NC_021162.1	Ca_kabuli_chr03	24175087	AA	TT	1946776218
SNP_P4_32567_24175258	NC_021162.1	Ca_kabuli_chr03	24175258	TT	CC	1946776220
SNP_P4_32568_24175270	NC_021162.1	Ca_kabuli_chr03	24175270	CC	TT	1946776222
SNP_P4_32569_24175288	NC_021162.1	Ca_kabuli_chr03	24175288	GG	AA	1946776225
SNP_P4_32570_24177255	NC_021162.1	Ca_kabuli_chr03	24177255	CC	TT	1946776228
SNP_P4_32571_24177338	NC_021162.1	Ca_kabuli_chr03	24177338	AA	CC	1946776230
SNP_P4_32572_24177380	NC_021162.1	Ca_kabuli_chr03	24177380	GG	TT	1946776232
SNP_P4_32573_24177428	NC_021162.1	Ca_kabuli_chr03	24177428	GG	AA	1946776234

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_32575_24177730	NC_021162.1	Ca_kabuli_chr03	24177730	TT	CC	1946776238
SNP_P4_32576_24187072	NC_021162.1	Ca_kabuli_chr03	24187072	AA	GG	1946776240
SNP_P4_32577_24187382	NC_021162.1	Ca_kabuli_chr03	24187382	GG	AA	1946776242
SNP_P4_32578_24187403	NC_021162.1	Ca_kabuli_chr03	24187403	TT	AA	1946776244
SNP_P4_32579_24187421	NC_021162.1	Ca_kabuli_chr03	24187421	GG	AA	1946776246
SNP_P4_32580_24187437	NC_021162.1	Ca_kabuli_chr03	24187437	TT	CC	1946776248
SNP_P4_32581_24187451	NC_021162.1	Ca_kabuli_chr03	24187451	AA	TT	1946776251
SNP_P4_32582_24187452	NC_021162.1	Ca_kabuli_chr03	24187452	AA	GG	1946776253
SNP_P4_32583_24187453	NC_021162.1	Ca_kabuli_chr03	24187453	AA	TT	1946776255
SNP_P4_32584_24187457	NC_021162.1	Ca_kabuli_chr03	24187457	CC	AA	1946776257
SNP_P4_32585_24187505	NC_021162.1	Ca_kabuli_chr03	24187505	TT	AA	1946776259
SNP_P4_32586_24187508	NC_021162.1	Ca_kabuli_chr03	24187508	CC	AA	1946776261
SNP_P4_32587_24187519	NC_021162.1	Ca_kabuli_chr03	24187519	GG	AA	1946776263
SNP_P4_32588_24187520	NC_021162.1	Ca_kabuli_chr03	24187520	AA	GG	1946776266
SNP_P4_32589_24187535	NC_021162.1	Ca_kabuli_chr03	24187535	GG	AA	1946776268
SNP_P4_32590_24187540	NC_021162.1	Ca_kabuli_chr03	24187540	TT	CC	1946776270
SNP_P4_32591_24187558	NC_021162.1	Ca_kabuli_chr03	24187558	AA	CC	1946776273
SNP_P4_32592_24187568	NC_021162.1	Ca_kabuli_chr03	24187568	GG	AA	1946776275
SNP_P4_32593_24187571	NC_021162.1	Ca_kabuli_chr03	24187571	GG	TT	1946776277
SNP_P4_32594_24187577	NC_021162.1	Ca_kabuli_chr03	24187577	TT	AA	1946776279
SNP_P4_32595_24187592	NC_021162.1	Ca_kabuli_chr03	24187592	AA	GG	1946776281
SNP_P4_32596_24187595	NC_021162.1	Ca_kabuli_chr03	24187595	AA	GG	1946776283
SNP_P4_32597_24187687	NC_021162.1	Ca_kabuli_chr03	24187687	CC	AA	1946776285
SNP_P4_32599_24187734	NC_021162.1	Ca_kabuli_chr03	24187734	TT	AA	1946776287
SNP_P4_32600_24187746	NC_021162.1	Ca_kabuli_chr03	24187746	AA	CC	1946776289
SNP_P4_32601_24187774	NC_021162.1	Ca_kabuli_chr03	24187774	AA	TT	1946776291
SNP_P4_32602_24187819	NC_021162.1	Ca_kabuli_chr03	24187819	TT	GG	1946776294
SNP_P4_32603_24187821	NC_021162.1	Ca_kabuli_chr03	24187821	GG	AA	1946776296
SNP_P4_32604_24187823	NC_021162.1	Ca_kabuli_chr03	24187823	AA	GG	1946776298
SNP_P4_32605_24187850	NC_021162.1	Ca_kabuli_chr03	24187850	AA	GG	1946776300
SNP_P4_32606_24187853	NC_021162.1	Ca_kabuli_chr03	24187853	CC	TT	1946776303
SNP_P4_32607_24187863	NC_021162.1	Ca_kabuli_chr03	24187863	CC	TT	1946776305
SNP_P4_32608_24187914	NC_021162.1	Ca_kabuli_chr03	24187914	AA	TT	1946776307
SNP_P4_32609_24187915	NC_021162.1	Ca_kabuli_chr03	24187915	AA	CC	1946776309
SNP_P4_32610_24187955	NC_021162.1	Ca_kabuli_chr03	24187955	TT	CC	1946776311
SNP_P4_32611_24187970	NC_021162.1	Ca_kabuli_chr03	24187970	AA	GG	1946776313
SNP_P4_32612_24187995	NC_021162.1	Ca_kabuli_chr03	24187995	GG	AA	1946776315
SNP_P4_32613_24188025	NC_021162.1	Ca_kabuli_chr03	24188025	CC	TT	1946776317
SNP_P4_32614_24188913	NC_021162.1	Ca_kabuli_chr03	24188913	CC	TT	1946776320
SNP_P4_32615_24188972	NC_021162.1	Ca_kabuli_chr03	24188972	AA	GG	1946776322
SNP_P4_32616_24190229	NC_021162.1	Ca_kabuli_chr03	24190229	AA	GG	1946776324

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_32618_24199579	NC_021162.1	Ca_kabuli_chr03	24199579	GG	AA	1946776328
SNP_P4_32620_24233126	NC_021162.1	Ca_kabuli_chr03	24233126	CC	TT	1946776330
SNP_P4_32621_24240398	NC_021162.1	Ca_kabuli_chr03	24240398	AA	GG	1946776332
SNP_P4_32622_24243810	NC_021162.1	Ca_kabuli_chr03	24243810	TT	GG	1946776334
SNP_P4_32623_24270461	NC_021162.1	Ca_kabuli_chr03	24270461	TT	AA	1946776336
SNP_P4_32624_24270467	NC_021162.1	Ca_kabuli_chr03	24270467	GG	TT	1946776338
SNP_P4_32625_24270612	NC_021162.1	Ca_kabuli_chr03	24270612	CC	TT	1946776340
SNP_P4_32626_24272821	NC_021162.1	Ca_kabuli_chr03	24272821	GG	TT	1946776342
SNP_P4_32627_24272955	NC_021162.1	Ca_kabuli_chr03	24272955	CC	AA	1946776344
SNP_P4_32629_24272991	NC_021162.1	Ca_kabuli_chr03	24272991	AA	CC	1946776346
SNP_P4_32630_24273004	NC_021162.1	Ca_kabuli_chr03	24273004	TT	CC	1946776348
SNP_P4_32631_24292671	NC_021162.1	Ca_kabuli_chr03	24292671	GG	AA	1946776350
SNP_P4_32632_24295655	NC_021162.1	Ca_kabuli_chr03	24295655	AA	GG	1946776352
SNP_P4_32633_24304844	NC_021162.1	Ca_kabuli_chr03	24304844	AA	GG	1946776354
SNP_P4_32635_24320298	NC_021162.1	Ca_kabuli_chr03	24320298	GG	AA	1946776356
SNP_P4_32636_24342775	NC_021162.1	Ca_kabuli_chr03	24342775	TT	AA	1946776358
SNP_P4_32637_24342777	NC_021162.1	Ca_kabuli_chr03	24342777	TT	GG	1946776361
SNP_P4_32639_24440781	NC_021162.1	Ca_kabuli_chr03	24440781	GG	CC	1946776364
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SNP_P4_32642_24504163	NC_021162.1	Ca_kabuli_chr03	24504163	GG	CC	1946776369
SNP_P4_32643_24509844	NC_021162.1	Ca_kabuli_chr03	24509844	TT	GG	1946776372
SNP_P4_32644_24509845	NC_021162.1	Ca_kabuli_chr03	24509845	TT	GG	1946776374
SNP_P4_32645_24512151	NC_021162.1	Ca_kabuli_chr03	24512151	AA	GG	1946776376
SNP_P4_32646_24513745	NC_021162.1	Ca_kabuli_chr03	24513745	AA	CC	1946776379
SNP_P4_32647_24513754	NC_021162.1	Ca_kabuli_chr03	24513754	CC	TT	1946776381
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SNP_P4_32651_24559528	NC_021162.1	Ca_kabuli_chr03	24559528	AA	GG	1946776386
SNP_P4_32652_24561743	NC_021162.1	Ca_kabuli_chr03	24561743	AA	TT	1946776388
SNP_P4_32654_24592813	NC_021162.1	Ca_kabuli_chr03	24592813	AA	GG	1946776390
SNP_P4_32655_24610184	NC_021162.1	Ca_kabuli_chr03	24610184	AA	TT	1946776393
SNP_P4_32656_24613182	NC_021162.1	Ca_kabuli_chr03	24613182	AA	GG	1946776395
SNP_P4_32657_24613524	NC_021162.1	Ca_kabuli_chr03	24613524	TT	CC	1946776398
SNP_P4_32658_24618136	NC_021162.1	Ca_kabuli_chr03	24618136	AA	CC	1946776400
SNP_P4_32659_24649250	NC_021162.1	Ca_kabuli_chr03	24649250	GG	TT	1946776403
SNP_P4_32660_24649252	NC_021162.1	Ca_kabuli_chr03	24649252	TT	CC	1946776405
SNP_P4_32661_24649653	NC_021162.1	Ca_kabuli_chr03	24649653	GG	AA	1946776407
SNP_P4_32662_24650344	NC_021162.1	Ca_kabuli_chr03	24650344	TT	CC	1946776409
SNP_P4_32663_24660952	NC_021162.1	Ca_kabuli_chr03	24660952	CC	TT	1946776412
SNP_P4_32664_24664582	NC_021162.1	Ca_kabuli_chr03	24664582	TT	GG	1946776414
SNP_P4_32665_24679218	NC_021162.1	Ca_kabuli_chr03	24679218	CC	TT	1946776416
SNP_P4_32667_24689042	NC_021162.1	Ca_kabuli_chr03	24689042	GG	AA	1946776418

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_32670_24703638	NC_021162.1	Ca_kabuli_chr03	24703638	CC	TT	1946776425
SNP_P4_32671_24703675	NC_021162.1	Ca_kabuli_chr03	24703675	TT	CC	1946776427
SNP_P4_32673_24737073	NC_021162.1	Ca_kabuli_chr03	24737073	TT	CC	1946776429
SNP_P4_32674_24737146	NC_021162.1	Ca_kabuli_chr03	24737146	CC	TT	1946776431
SNP_P4_32675_24790087	NC_021162.1	Ca_kabuli_chr03	24790087	TT	CC	1946776433
SNP_P4_32676_24790092	NC_021162.1	Ca_kabuli_chr03	24790092	CC	TT	1946776437
SNP_P4_32678_24791035	NC_021162.1	Ca_kabuli_chr03	24791035	GG	CC	1946776439
SNP_P4_32680_24795684	NC_021162.1	Ca_kabuli_chr03	24795684	GG	AA	1946776441
SNP_P4_32681_24795685	NC_021162.1	Ca_kabuli_chr03	24795685	GG	AA	1946776443
SNP_P4_32682_24795704	NC_021162.1	Ca_kabuli_chr03	24795704	GG	TT	1946776445
SNP_P4_32683_24796017	NC_021162.1	Ca_kabuli_chr03	24796017	CC	TT	1946776447
SNP_P4_32684_24796317	NC_021162.1	Ca_kabuli_chr03	24796317	AA	GG	1946776449
SNP_P4_32685_24796328	NC_021162.1	Ca_kabuli_chr03	24796328	AA	TT	1946776452
SNP_P4_32686_24796347	NC_021162.1	Ca_kabuli_chr03	24796347	AA	CC	1946776454
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SNP_P4_32688_24796400	NC_021162.1	Ca_kabuli_chr03	24796400	TT	CC	1946776458
SNP_P4_32689_24796488	NC_021162.1	Ca_kabuli_chr03	24796488	CC	AA	1946776460
SNP_P4_32690_24796528	NC_021162.1	Ca_kabuli_chr03	24796528	CC	TT	1946776462
SNP_P4_32691_24796535	NC_021162.1	Ca_kabuli_chr03	24796535	AA	TT	1946776464
SNP_P4_32692_24796575	NC_021162.1	Ca_kabuli_chr03	24796575	CC	TT	1946776466
SNP_P4_32693_24796582	NC_021162.1	Ca_kabuli_chr03	24796582	CC	AA	1946776468
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SNP_P4_32695_24796655	NC_021162.1	Ca_kabuli_chr03	24796655	CC	AA	1946776472
SNP_P4_32696_24796712	NC_021162.1	Ca_kabuli_chr03	24796712	AA	TT	1946776474
SNP_P4_32697_24796715	NC_021162.1	Ca_kabuli_chr03	24796715	CC	TT	1946776476
SNP_P4_32698_24796756	NC_021162.1	Ca_kabuli_chr03	24796756	AA	GG	1946776478
SNP_P4_32699_24796783	NC_021162.1	Ca_kabuli_chr03	24796783	TT	AA	1946776480
SNP_P4_32700_24796836	NC_021162.1	Ca_kabuli_chr03	24796836	CC	AA	1946776482
SNP_P4_32702_24805939	NC_021162.1	Ca_kabuli_chr03	24805939	GG	AA	1946776484
SNP_P4_32703_24808435	NC_021162.1	Ca_kabuli_chr03	24808435	CC	TT	1946776486
SNP_P4_32705_24832314	NC_021162.1	Ca_kabuli_chr03	24832314	TT	GG	1946776488
SNP_P4_32706_24836070	NC_021162.1	Ca_kabuli_chr03	24836070	GG	CC	1946776490
SNP_P4_32707_24840514	NC_021162.1	Ca_kabuli_chr03	24840514	TT	GG	1946776492
SNP_P4_32708_24849712	NC_021162.1	Ca_kabuli_chr03	24849712	GG	AA	1946776494
SNP_P4_32710_24866232	NC_021162.1	Ca_kabuli_chr03	24866232	CC	TT	1946776496
SNP_P4_32711_24873288	NC_021162.1	Ca_kabuli_chr03	24873288	TT	CC	1946776498
SNP_P4_32712_24877509	NC_021162.1	Ca_kabuli_chr03	24877509	AA	CC	1946776500
SNP_P4_32713_24877513	NC_021162.1	Ca_kabuli_chr03	24877513	AA	CC	1946776502
SNP_P4_32715_24908625	NC_021162.1	Ca_kabuli_chr03	24908625	CC	TT	1946776504
SNP_P4_32716_24909971	NC_021162.1	Ca_kabuli_chr03	24909971	AA	GG	1946776506

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_32719_24941338	NC_021162.1	Ca_kabuli_chr03	24941338	AA	GG	1946776510
SNP_P4_32723_25040615	NC_021162.1	Ca_kabuli_chr03	25040615	AA	GG	1946776512
SNP_P4_32724_25040663	NC_021162.1	Ca_kabuli_chr03	25040663	GG	AA	1946776514
SNP_P4_32725_25040673	NC_021162.1	Ca_kabuli_chr03	25040673	GG	TT	1946776516
SNP_P4_32726_25040718	NC_021162.1	Ca_kabuli_chr03	25040718	TT	CC	1946776519
SNP_P4_32727_25040730	NC_021162.1	Ca_kabuli_chr03	25040730	AA	GG	1946776521
SNP_P4_32728_25040745	NC_021162.1	Ca_kabuli_chr03	25040745	AA	GG	1946776523
SNP_P4_32729_25040798	NC_021162.1	Ca_kabuli_chr03	25040798	AA	GG	1946776525
SNP_P4_32730_25040800	NC_021162.1	Ca_kabuli_chr03	25040800	AA	GG	1946776527
SNP_P4_32731_25040827	NC_021162.1	Ca_kabuli_chr03	25040827	AA	GG	1946776529
SNP_P4_32732_25040835	NC_021162.1	Ca_kabuli_chr03	25040835	AA	TT	1946776531
SNP_P4_32733_25040838	NC_021162.1	Ca_kabuli_chr03	25040838	TT	CC	1946776533
SNP_P4_32734_25040844	NC_021162.1	Ca_kabuli_chr03	25040844	TT	CC	1946776536
SNP_P4_32735_25048039	NC_021162.1	Ca_kabuli_chr03	25048039	AA	CC	1946776538
SNP_P4_32736_25057350	NC_021162.1	Ca_kabuli_chr03	25057350	AA	CC	1946776540
SNP_P4_32737_25092680	NC_021162.1	Ca_kabuli_chr03	25092680	CC	AA	1946776542
SNP_P4_32738_25114594	NC_021162.1	Ca_kabuli_chr03	25114594	AA	GG	1946776544
SNP_P4_32739_25124236	NC_021162.1	Ca_kabuli_chr03	25124236	CC	TT	1946776545
SNP_P4_32740_25152469	NC_021162.1	Ca_kabuli_chr03	25152469	TT	CC	1946776547
SNP_P4_32741_25154718	NC_021162.1	Ca_kabuli_chr03	25154718	GG	TT	1946776549
SNP_P4_32742_25155539	NC_021162.1	Ca_kabuli_chr03	25155539	AA	GG	1946776551
SNP_P4_32743_25155625	NC_021162.1	Ca_kabuli_chr03	25155625	AA	GG	1946776553
SNP_P4_32746_25215763	NC_021162.1	Ca_kabuli_chr03	25215763	GG	AA	1946776555
SNP_P4_32748_25247470	NC_021162.1	Ca_kabuli_chr03	25247470	CC	TT	1946776557
SNP_P4_32749_25247530	NC_021162.1	Ca_kabuli_chr03	25247530	AA	CC	1946776559
SNP_P4_32750_25247533	NC_021162.1	Ca_kabuli_chr03	25247533	AA	TT	1946776561
SNP_P4_32751_25264699	NC_021162.1	Ca_kabuli_chr03	25264699	TT	AA	1946776563
SNP_P4_32752_25264702	NC_021162.1	Ca_kabuli_chr03	25264702	TT	CC	1946776565
SNP_P4_32753_25271621	NC_021162.1	Ca_kabuli_chr03	25271621	AA	GG	1946776568
SNP_P4_32754_25289371	NC_021162.1	Ca_kabuli_chr03	25289371	CC	TT	1946776569
SNP_P4_32756_25332021	NC_021162.1	Ca_kabuli_chr03	25332021	AA	GG	1946776571
SNP_P4_32757_25335934	NC_021162.1	Ca_kabuli_chr03	25335934	TT	CC	1946776573
SNP_P4_32758_25354805	NC_021162.1	Ca_kabuli_chr03	25354805	CC	GG	1946776575
SNP_P4_32759_25372830	NC_021162.1	Ca_kabuli_chr03	25372830	AA	CC	1946776577
SNP_P4_32761_25441627	NC_021162.1	Ca_kabuli_chr03	25441627	GG	AA	1946776580
SNP_P4_32762_25490685	NC_021162.1	Ca_kabuli_chr03	25490685	TT	GG	1946776582
SNP_P4_32763_25490686	NC_021162.1	Ca_kabuli_chr03	25490686	TT	AA	1946776584
SNP_P4_32765_25548964	NC_021162.1	Ca_kabuli_chr03	25548964	TT	GG	1946776586
SNP_P4_32766_25582287	NC_021162.1	Ca_kabuli_chr03	25582287	CC	TT	1946776588
SNP_P4_32768_25593117	NC_021162.1	Ca_kabuli_chr03	25593117	TT	CC	1946776590
SNP_P4_32769_25625867	NC_021162.1	Ca_kabuli_chr03	25625867	AA	GG	1946776593

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_32771_25625899	NC_021162.1	Ca_kabuli_chr03	25625899	GG	AA	1946776597
SNP_P4_32772_25625908	NC_021162.1	Ca_kabuli_chr03	25625908	GG	AA	1946776599
SNP_P4_32773_25632732	NC_021162.1	Ca_kabuli_chr03	25632732	AA	TT	1946776601
SNP_P4_32774_25663749	NC_021162.1	Ca_kabuli_chr03	25663749	GG	AA	1946776603
SNP_P4_32776_25720624	NC_021162.1	Ca_kabuli_chr03	25720624	TT	GG	1946776605
SNP_P4_32777_25736997	NC_021162.1	Ca_kabuli_chr03	25736997	CC	TT	1946776607
SNP_P4_32778_25764420	NC_021162.1	Ca_kabuli_chr03	25764420	TT	GG	1946776609
SNP_P4_32780_25800717	NC_021162.1	Ca_kabuli_chr03	25800717	AA	CC	1946776610
SNP_P4_32781_25810900	NC_021162.1	Ca_kabuli_chr03	25810900	CC	TT	1946776612
SNP_P4_32782_25811242	NC_021162.1	Ca_kabuli_chr03	25811242	TT	GG	1946776614
SNP_P4_32783_25811254	NC_021162.1	Ca_kabuli_chr03	25811254	CC	TT	1946776615
SNP_P4_32784_25811325	NC_021162.1	Ca_kabuli_chr03	25811325	AA	TT	1946776616
SNP_P4_32785_25827814	NC_021162.1	Ca_kabuli_chr03	25827814	TT	CC	1946776617
SNP_P4_32786_25827863	NC_021162.1	Ca_kabuli_chr03	25827863	GG	TT	1946776619
SNP_P4_32787_25867782	NC_021162.1	Ca_kabuli_chr03	25867782	TT	AA	1946776621
SNP_P4_32788_25872828	NC_021162.1	Ca_kabuli_chr03	25872828	AA	GG	1946776623
SNP_P4_32789_25872829	NC_021162.1	Ca_kabuli_chr03	25872829	GG	AA	1946776625
SNP_P4_32791_25872988	NC_021162.1	Ca_kabuli_chr03	25872988	GG	AA	1946776627
SNP_P4_32792_25885767	NC_021162.1	Ca_kabuli_chr03	25885767	TT	CC	1946776629
SNP_P4_32793_25885789	NC_021162.1	Ca_kabuli_chr03	25885789	TT	CC	1946776631
SNP_P4_32794_25885798	NC_021162.1	Ca_kabuli_chr03	25885798	AA	GG	1946776633
SNP_P4_32795_25886077	NC_021162.1	Ca_kabuli_chr03	25886077	AA	TT	1946776635
SNP_P4_32796_25886087	NC_021162.1	Ca_kabuli_chr03	25886087	TT	AA	1946776638
SNP_P4_32797_25886088	NC_021162.1	Ca_kabuli_chr03	25886088	AA	TT	1946776640
SNP_P4_32798_25886132	NC_021162.1	Ca_kabuli_chr03	25886132	CC	TT	1946776642
SNP_P4_32799_25886289	NC_021162.1	Ca_kabuli_chr03	25886289	AA	CC	1946776644
SNP_P4_32800_25886296	NC_021162.1	Ca_kabuli_chr03	25886296	CC	TT	1946776646
SNP_P4_32801_25886431	NC_021162.1	Ca_kabuli_chr03	25886431	GG	AA	1946776648
SNP_P4_32802_25886606	NC_021162.1	Ca_kabuli_chr03	25886606	TT	GG	1946776650
SNP_P4_32803_25886784	NC_021162.1	Ca_kabuli_chr03	25886784	CC	GG	1946776653
SNP_P4_32805_25888108	NC_021162.1	Ca_kabuli_chr03	25888108	CC	GG	1946776655
SNP_P4_32806_25888172	NC_021162.1	Ca_kabuli_chr03	25888172	TT	AA	1946776657
SNP_P4_32807_25888215	NC_021162.1	Ca_kabuli_chr03	25888215	CC	TT	1946776659
SNP_P4_32808_25888226	NC_021162.1	Ca_kabuli_chr03	25888226	TT	CC	1946776661
SNP_P4_32809_25888289	NC_021162.1	Ca_kabuli_chr03	25888289	TT	AA	1946776664
SNP_P4_32810_25888497	NC_021162.1	Ca_kabuli_chr03	25888497	GG	AA	1946776666
SNP_P4_32811_25888499	NC_021162.1	Ca_kabuli_chr03	25888499	AA	CC	1946776668
SNP_P4_32812_25888504	NC_021162.1	Ca_kabuli_chr03	25888504	AA	GG	1946776670
SNP_P4_32813_25888512	NC_021162.1	Ca_kabuli_chr03	25888512	TT	CC	1946776673
SNP_P4_32814_25888516	NC_021162.1	Ca_kabuli_chr03	25888516	GG	TT	1946776675
SNP_P4_32815_25888573	NC_021162.1	Ca_kabuli_chr03	25888573	AA	GG	1946776677

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_32817_25888659	NC_021162.1	Ca_kabuli_chr03	25888659	TT	AA	1946776681
SNP_P4_32818_25888665	NC_021162.1	Ca_kabuli_chr03	25888665	AA	TT	1946776683
SNP_P4_32819_25888698	NC_021162.1	Ca_kabuli_chr03	25888698	AA	TT	1946776685
SNP_P4_32820_25888753	NC_021162.1	Ca_kabuli_chr03	25888753	TT	GG	1946776687
SNP_P4_32822_25888961	NC_021162.1	Ca_kabuli_chr03	25888961	TT	CC	1946776689
SNP_P4_32823_25888970	NC_021162.1	Ca_kabuli_chr03	25888970	AA	TT	1946776692
SNP_P4_32824_25888971	NC_021162.1	Ca_kabuli_chr03	25888971	CC	AA	1946776694
SNP_P4_32825_25888986	NC_021162.1	Ca_kabuli_chr03	25888986	GG	AA	1946776696
SNP_P4_32826_25889053	NC_021162.1	Ca_kabuli_chr03	25889053	TT	CC	1946776698
SNP_P4_32827_25889085	NC_021162.1	Ca_kabuli_chr03	25889085	AA	GG	1946776700
SNP_P4_32829_25889157	NC_021162.1	Ca_kabuli_chr03	25889157	CC	TT	1946776702
SNP_P4_32830_25889158	NC_021162.1	Ca_kabuli_chr03	25889158	AA	TT	1946776704
SNP_P4_32831_25889383	NC_021162.1	Ca_kabuli_chr03	25889383	TT	CC	1946776706
SNP_P4_32832_25889389	NC_021162.1	Ca_kabuli_chr03	25889389	CC	TT	1946776709
SNP_P4_32833_25889398	NC_021162.1	Ca_kabuli_chr03	25889398	AA	TT	1946776711
SNP_P4_32834_25889405	NC_021162.1	Ca_kabuli_chr03	25889405	CC	AA	1946776713
SNP_P4_32835_25889416	NC_021162.1	Ca_kabuli_chr03	25889416	TT	GG	1946776715
SNP_P4_32836_25889604	NC_021162.1	Ca_kabuli_chr03	25889604	AA	TT	1946776717
SNP_P4_32837_25889605	NC_021162.1	Ca_kabuli_chr03	25889605	TT	AA	1946776719
SNP_P4_32839_25889650	NC_021162.1	Ca_kabuli_chr03	25889650	GG	AA	1946776721
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SNP_P4_32842_25890434	NC_021162.1	Ca_kabuli_chr03	25890434	TT	AA	1946776726
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SNP_P4_32844_25890789	NC_021162.1	Ca_kabuli_chr03	25890789	AA	TT	1946776730
SNP_P4_32845_25891463	NC_021162.1	Ca_kabuli_chr03	25891463	AA	CC	1946776732
SNP_P4_32846_25891464	NC_021162.1	Ca_kabuli_chr03	25891464	TT	GG	1946776734
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SNP_P4_32848_25891916	NC_021162.1	Ca_kabuli_chr03	25891916	GG	AA	1946776738
SNP_P4_32849_25892027	NC_021162.1	Ca_kabuli_chr03	25892027	TT	CC	1946776740
SNP_P4_32850_25905935	NC_021162.1	Ca_kabuli_chr03	25905935	AA	CC	1946776742
SNP_P4_32851_25905936	NC_021162.1	Ca_kabuli_chr03	25905936	AA	GG	1946776745
SNP_P4_32853_25908993	NC_021162.1	Ca_kabuli_chr03	25908993	GG	AA	1946776747
SNP_P4_32855_25946409	NC_021162.1	Ca_kabuli_chr03	25946409	GG	TT	1946776749
SNP_P4_32856_25948982	NC_021162.1	Ca_kabuli_chr03	25948982	GG	AA	1946776751
SNP_P4_32858_25966751	NC_021162.1	Ca_kabuli_chr03	25966751	AA	TT	1946776753
SNP_P4_32859_25966757	NC_021162.1	Ca_kabuli_chr03	25966757	GG	TT	1946776755
SNP_P4_32860_25971833	NC_021162.1	Ca_kabuli_chr03	25971833	AA	GG	1946776757
SNP_P4_32861_25971852	NC_021162.1	Ca_kabuli_chr03	25971852	TT	CC	1946776759
SNP_P4_32862_25971861	NC_021162.1	Ca_kabuli_chr03	25971861	AA	GG	1946776761
SNP_P4_32863_25971878	NC_021162.1	Ca_kabuli_chr03	25971878	TT	AA	1946776764
SNP_P4_32864_25971933	NC_021162.1	Ca_kabuli_chr03	25971933	AA	CC	1946776766

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_32866_25972161	NC_021162.1	Ca_kabuli_chr03	25972161	AA	GG	1946776770
SNP_P4_32867_25972178	NC_021162.1	Ca_kabuli_chr03	25972178	AA	GG	1946776772
SNP_P4_32868_25972211	NC_021162.1	Ca_kabuli_chr03	25972211	TT	CC	1946776775
SNP_P4_32869_25972233	NC_021162.1	Ca_kabuli_chr03	25972233	AA	CC	1946776777
SNP_P4_32870_25972250	NC_021162.1	Ca_kabuli_chr03	25972250	TT	GG	1946776779
SNP_P4_32871_25972368	NC_021162.1	Ca_kabuli_chr03	25972368	AA	GG	1946776781
SNP_P4_32872_25972426	NC_021162.1	Ca_kabuli_chr03	25972426	AA	GG	1946776783
SNP_P4_32873_25972441	NC_021162.1	Ca_kabuli_chr03	25972441	AA	GG	1946776786
SNP_P4_32874_25972442	NC_021162.1	Ca_kabuli_chr03	25972442	TT	GG	1946776788
SNP_P4_32875_25972449	NC_021162.1	Ca_kabuli_chr03	25972449	TT	CC	1946776790
SNP_P4_32876_26014078	NC_021162.1	Ca_kabuli_chr03	26014078	AA	GG	1946776792
SNP_P4_32877_26014324	NC_021162.1	Ca_kabuli_chr03	26014324	AA	TT	1946776794
SNP_P4_32878_26014355	NC_021162.1	Ca_kabuli_chr03	26014355	GG	AA	1946776796
SNP_P4_32879_26018180	NC_021162.1	Ca_kabuli_chr03	26018180	TT	CC	1946776799
SNP_P4_32881_26037029	NC_021162.1	Ca_kabuli_chr03	26037029	AA	TT	1946776801
SNP_P4_32882_26037030	NC_021162.1	Ca_kabuli_chr03	26037030	AA	GG	1946776803
SNP_P4_32883_26042309	NC_021162.1	Ca_kabuli_chr03	26042309	CC	TT	1946776805
SNP_P4_32884_26042318	NC_021162.1	Ca_kabuli_chr03	26042318	TT	CC	1946776807
SNP_P4_32885_26042359	NC_021162.1	Ca_kabuli_chr03	26042359	TT	AA	1946776809
SNP_P4_32886_26042366	NC_021162.1	Ca_kabuli_chr03	26042366	TT	CC	1946776811
SNP_P4_32887_26042436	NC_021162.1	Ca_kabuli_chr03	26042436	CC	AA	1946776813
SNP_P4_32888_26042447	NC_021162.1	Ca_kabuli_chr03	26042447	TT	AA	1946776815
SNP_P4_32889_26042477	NC_021162.1	Ca_kabuli_chr03	26042477	TT	CC	1946776817
SNP_P4_32890_26042480	NC_021162.1	Ca_kabuli_chr03	26042480	CC	TT	1946776819
SNP_P4_32891_26042549	NC_021162.1	Ca_kabuli_chr03	26042549	AA	CC	1946776821
SNP_P4_32892_26043767	NC_021162.1	Ca_kabuli_chr03	26043767	TT	CC	1946776823
SNP_P4_32893_26043779	NC_021162.1	Ca_kabuli_chr03	26043779	AA	GG	1946776825
SNP_P4_32894_26070622	NC_021162.1	Ca_kabuli_chr03	26070622	TT	GG	1946776828
SNP_P4_32895_26070813	NC_021162.1	Ca_kabuli_chr03	26070813	AA	TT	1946776830
SNP_P4_32896_26071489	NC_021162.1	Ca_kabuli_chr03	26071489	CC	GG	1946776832
SNP_P4_32897_26071524	NC_021162.1	Ca_kabuli_chr03	26071524	GG	CC	1946776834
SNP_P4_32898_26071763	NC_021162.1	Ca_kabuli_chr03	26071763	GG	CC	1946776837
SNP_P4_32899_26071805	NC_021162.1	Ca_kabuli_chr03	26071805	GG	AA	1946776839
SNP_P4_32901_26071929	NC_021162.1	Ca_kabuli_chr03	26071929	AA	CC	1946776841
SNP_P4_32902_26071936	NC_021162.1	Ca_kabuli_chr03	26071936	GG	AA	1946776843
SNP_P4_32903_26071972	NC_021162.1	Ca_kabuli_chr03	26071972	TT	GG	1946776845
SNP_P4_32904_26074399	NC_021162.1	Ca_kabuli_chr03	26074399	AA	TT	1946776847
SNP_P4_32905_26074424	NC_021162.1	Ca_kabuli_chr03	26074424	CC	TT	1946776849
SNP_P4_32907_26074539	NC_021162.1	Ca_kabuli_chr03	26074539	AA	GG	1946776851
SNP_P4_32908_26074543	NC_021162.1	Ca_kabuli_chr03	26074543	TT	CC	1946776853
SNP_P4_32909_26074610	NC_021162.1	Ca_kabuli_chr03	26074610	AA	TT	1946776855

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_32912_26101073	NC_021162.1	Ca_kabuli_chr03	26101073	TT	CC	1946776859
SNP_P4_32913_26101092	NC_021162.1	Ca_kabuli_chr03	26101092	CC	TT	1946776861
SNP_P4_32914_26101098	NC_021162.1	Ca_kabuli_chr03	26101098	AA	TT	1946776863
SNP_P4_32915_26101105	NC_021162.1	Ca_kabuli_chr03	26101105	AA	GG	1946776865
SNP_P4_32916_26101111	NC_021162.1	Ca_kabuli_chr03	26101111	AA	CC	1946776867
SNP_P4_32917_26101366	NC_021162.1	Ca_kabuli_chr03	26101366	GG	CC	1946776869
SNP_P4_32918_26101750	NC_021162.1	Ca_kabuli_chr03	26101750	AA	TT	1946776871
SNP_P4_32919_26102048	NC_021162.1	Ca_kabuli_chr03	26102048	CC	TT	1946776873
SNP_P4_32920_26102900	NC_021162.1	Ca_kabuli_chr03	26102900	GG	AA	1946776875
SNP_P4_32922_26103611	NC_021162.1	Ca_kabuli_chr03	26103611	GG	TT	1946776878
SNP_P4_32923_26103641	NC_021162.1	Ca_kabuli_chr03	26103641	GG	AA	1946776880
SNP_P4_32924_26103672	NC_021162.1	Ca_kabuli_chr03	26103672	TT	CC	1946776882
SNP_P4_32926_26114539	NC_021162.1	Ca_kabuli_chr03	26114539	CC	GG	1946776884
SNP_P4_32927_26114858	NC_021162.1	Ca_kabuli_chr03	26114858	CC	TT	1946776886
SNP_P4_32929_26114967	NC_021162.1	Ca_kabuli_chr03	26114967	CC	TT	1946776888
SNP_P4_32930_26114972	NC_021162.1	Ca_kabuli_chr03	26114972	AA	TT	1946776890
SNP_P4_32932_26115036	NC_021162.1	Ca_kabuli_chr03	26115036	AA	GG	1946776892
SNP_P4_32933_26115051	NC_021162.1	Ca_kabuli_chr03	26115051	GG	CC	1946776894
SNP_P4_32934_26115162	NC_021162.1	Ca_kabuli_chr03	26115162	AA	TT	1946776896
SNP_P4_32935_26115199	NC_021162.1	Ca_kabuli_chr03	26115199	TT	AA	1946776898
SNP_P4_32936_26115202	NC_021162.1	Ca_kabuli_chr03	26115202	CC	GG	1946776900
SNP_P4_32937_26115226	NC_021162.1	Ca_kabuli_chr03	26115226	AA	TT	1946776902
SNP_P4_32938_26115322	NC_021162.1	Ca_kabuli_chr03	26115322	TT	AA	1946776904
SNP_P4_32939_26115384	NC_021162.1	Ca_kabuli_chr03	26115384	AA	TT	1946776906
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SNP_P4_32942_26115748	NC_021162.1	Ca_kabuli_chr03	26115748	AA	TT	1946776912
SNP_P4_32943_26115961	NC_021162.1	Ca_kabuli_chr03	26115961	AA	GG	1946776914
SNP_P4_32944_26116007	NC_021162.1	Ca_kabuli_chr03	26116007	TT	GG	1946776916
SNP_P4_32945_26116011	NC_021162.1	Ca_kabuli_chr03	26116011	TT	CC	1946776918
SNP_P4_32946_26117807	NC_021162.1	Ca_kabuli_chr03	26117807	TT	AA	1946776920
SNP_P4_32948_26174976	NC_021162.1	Ca_kabuli_chr03	26174976	TT	CC	1946776922
SNP_P4_32949_26177435	NC_021162.1	Ca_kabuli_chr03	26177435	CC	TT	1946776924
SNP_P4_32950_26179921	NC_021162.1	Ca_kabuli_chr03	26179921	TT	AA	1946776926
SNP_P4_32952_26250231	NC_021162.1	Ca_kabuli_chr03	26250231	GG	TT	1946776928
SNP_P4_32953_26266788	NC_021162.1	Ca_kabuli_chr03	26266788	AA	TT	1946776930
SNP_P4_32954_26351770	NC_021162.1	Ca_kabuli_chr03	26351770	AA	GG	1946776932
SNP_P4_32955_26379025	NC_021162.1	Ca_kabuli_chr03	26379025	TT	GG	1946776934
SNP_P4_32956_26396126	NC_021162.1	Ca_kabuli_chr03	26396126	TT	GG	1946776936
SNP_P4_32957_26396130	NC_021162.1	Ca_kabuli_chr03	26396130	TT	CC	1946776938
SNP_P4_32958_26411747	NC_021162.1	Ca_kabuli_chr03	26411747	TT	CC	1946776940

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_32961_26412178	NC_021162.1	Ca_kabuli_chr03	26412178	TT	GG	1946776944
SNP_P4_32962_26412251	NC_021162.1	Ca_kabuli_chr03	26412251	GG	CC	1946776946
SNP_P4_32963_26433193	NC_021162.1	Ca_kabuli_chr03	26433193	GG	TT	1946776948
SNP_P4_32965_26443313	NC_021162.1	Ca_kabuli_chr03	26443313	TT	GG	1946776950
SNP_P4_32966_26443356	NC_021162.1	Ca_kabuli_chr03	26443356	GG	AA	1946776952
SNP_P4_32967_26478729	NC_021162.1	Ca_kabuli_chr03	26478729	GG	TT	1946776954
SNP_P4_32968_26484163	NC_021162.1	Ca_kabuli_chr03	26484163	TT	CC	1946776956
SNP_P4_32969_26484213	NC_021162.1	Ca_kabuli_chr03	26484213	AA	GG	1946776958
SNP_P4_32970_26495314	NC_021162.1	Ca_kabuli_chr03	26495314	AA	GG	1946776960
SNP_P4_32971_26495353	NC_021162.1	Ca_kabuli_chr03	26495353	TT	CC	1946776962
SNP_P4_32972_26495361	NC_021162.1	Ca_kabuli_chr03	26495361	TT	CC	1946776964
SNP_P4_32973_26495556	NC_021162.1	Ca_kabuli_chr03	26495556	GG	AA	1946776966
SNP_P4_32974_26495558	NC_021162.1	Ca_kabuli_chr03	26495558	GG	AA	1946776968
SNP_P4_32975_26495591	NC_021162.1	Ca_kabuli_chr03	26495591	AA	GG	1946776970
SNP_P4_32976_26495621	NC_021162.1	Ca_kabuli_chr03	26495621	GG	AA	1946776972
SNP_P4_32977_26495666	NC_021162.1	Ca_kabuli_chr03	26495666	CC	TT	1946776974
SNP_P4_32978_26495683	NC_021162.1	Ca_kabuli_chr03	26495683	TT	CC	1946776976
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SNP_P4_32981_26495714	NC_021162.1	Ca_kabuli_chr03	26495714	TT	AA	1946776982
SNP_P4_32982_26495766	NC_021162.1	Ca_kabuli_chr03	26495766	AA	TT	1946776984
SNP_P4_32983_26495956	NC_021162.1	Ca_kabuli_chr03	26495956	CC	TT	1946776986
SNP_P4_32984_26496003	NC_021162.1	Ca_kabuli_chr03	26496003	AA	CC	1946776989
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SNP_P4_32986_26496123	NC_021162.1	Ca_kabuli_chr03	26496123	GG	AA	1946776993
SNP_P4_32987_26496149	NC_021162.1	Ca_kabuli_chr03	26496149	AA	GG	1946776995
SNP_P4_32988_26496154	NC_021162.1	Ca_kabuli_chr03	26496154	AA	GG	1946776997
SNP_P4_32989_26585415	NC_021162.1	Ca_kabuli_chr03	26585415	AA	CC	1946776999
SNP_P4_32990_26648608	NC_021162.1	Ca_kabuli_chr03	26648608	GG	AA	1946777001
SNP_P4_32991_26686647	NC_021162.1	Ca_kabuli_chr03	26686647	TT	GG	1946777003
SNP_P4_32992_26686950	NC_021162.1	Ca_kabuli_chr03	26686950	CC	TT	1946777005
SNP_P4_32994_26707690	NC_021162.1	Ca_kabuli_chr03	26707690	TT	CC	1946777007
SNP_P4_32995_26707753	NC_021162.1	Ca_kabuli_chr03	26707753	CC	GG	1946777009
SNP_P4_32996_26708079	NC_021162.1	Ca_kabuli_chr03	26708079	TT	GG	1946777011
SNP_P4_32997_26708087	NC_021162.1	Ca_kabuli_chr03	26708087	CC	AA	1946777013
SNP_P4_32999_26777114	NC_021162.1	Ca_kabuli_chr03	26777114	GG	CC	1946777015
SNP_P4_33000_26777125	NC_021162.1	Ca_kabuli_chr03	26777125	AA	GG	1946777017
SNP_P4_33002_26785180	NC_021162.1	Ca_kabuli_chr03	26785180	AA	CC	1946777019
SNP_P4_33003_26803025	NC_021162.1	Ca_kabuli_chr03	26803025	CC	TT	1946777021
SNP_P4_33005_26838231	NC_021162.1	Ca_kabuli_chr03	26838231	GG	AA	1946777023
SNP_P4_33006_26857997	NC_021162.1	Ca_kabuli_chr03	26857997	CC	TT	1946777025

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_33009_26897312	NC_021162.1	Ca_kabuli_chr03	26897312	CC	TT	1946777031
SNP_P4_33010_27051571	NC_021162.1	Ca_kabuli_chr03	27051571	CC	TT	1946777033
SNP_P4_33011_27073468	NC_021162.1	Ca_kabuli_chr03	27073468	AA	GG	1946777035
SNP_P4_33013_27073507	NC_021162.1	Ca_kabuli_chr03	27073507	TT	AA	1946777037
SNP_P4_33014_27073585	NC_021162.1	Ca_kabuli_chr03	27073585	GG	TT	1946777039
SNP_P4_33015_27073619	NC_021162.1	Ca_kabuli_chr03	27073619	TT	GG	1946777042
SNP_P4_33016_27073658	NC_021162.1	Ca_kabuli_chr03	27073658	TT	AA	1946777044
SNP_P4_33017_27073779	NC_021162.1	Ca_kabuli_chr03	27073779	TT	CC	1946777046
SNP_P4_33018_27073847	NC_021162.1	Ca_kabuli_chr03	27073847	AA	GG	1946777048
SNP_P4_33019_27073861	NC_021162.1	Ca_kabuli_chr03	27073861	CC	TT	1946777051
SNP_P4_33020_27075484	NC_021162.1	Ca_kabuli_chr03	27075484	GG	CC	1946777053
SNP_P4_33021_27075560	NC_021162.1	Ca_kabuli_chr03	27075560	TT	CC	1946777055
SNP_P4_33022_27077744	NC_021162.1	Ca_kabuli_chr03	27077744	AA	TT	1946777057
SNP_P4_33023_27080519	NC_021162.1	Ca_kabuli_chr03	27080519	AA	GG	1946777059
SNP_P4_33024_27148327	NC_021162.1	Ca_kabuli_chr03	27148327	TT	CC	1946777061
SNP_P4_33025_27148892	NC_021162.1	Ca_kabuli_chr03	27148892	TT	AA	1946777063
SNP_P4_33028_27221910	NC_021162.1	Ca_kabuli_chr03	27221910	AA	TT	1946777065
SNP_P4_33029_27233597	NC_021162.1	Ca_kabuli_chr03	27233597	GG	AA	1946777067
SNP_P4_33030_27238032	NC_021162.1	Ca_kabuli_chr03	27238032	TT	GG	1946777069
SNP_P4_33031_27238879	NC_021162.1	Ca_kabuli_chr03	27238879	AA	GG	1946777071
SNP_P4_33032_27240617	NC_021162.1	Ca_kabuli_chr03	27240617	TT	CC	1946777073
SNP_P4_33033_27240695	NC_021162.1	Ca_kabuli_chr03	27240695	GG	AA	1946777075
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SNP_P4_33035_27240762	NC_021162.1	Ca_kabuli_chr03	27240762	CC	GG	1946777080
SNP_P4_33036_27240763	NC_021162.1	Ca_kabuli_chr03	27240763	AA	CC	1946777082
SNP_P4_33037_27242649	NC_021162.1	Ca_kabuli_chr03	27242649	CC	GG	1946777084
SNP_P4_33038_27242652	NC_021162.1	Ca_kabuli_chr03	27242652	CC	TT	1946777086
SNP_P4_33039_27242692	NC_021162.1	Ca_kabuli_chr03	27242692	CC	AA	1946777088
SNP_P4_33040_27242716	NC_021162.1	Ca_kabuli_chr03	27242716	TT	CC	1946777090
SNP_P4_33041_27244911	NC_021162.1	Ca_kabuli_chr03	27244911	GG	CC	1946777092
SNP_P4_33042_27245484	NC_021162.1	Ca_kabuli_chr03	27245484	GG	AA	1946777094
SNP_P4_33043_27252086	NC_021162.1	Ca_kabuli_chr03	27252086	AA	TT	1946777096
SNP_P4_33044_27252091	NC_021162.1	Ca_kabuli_chr03	27252091	GG	CC	1946777099
SNP_P4_33045_27252093	NC_021162.1	Ca_kabuli_chr03	27252093	GG	AA	1946777101
SNP_P4_33046_27252135	NC_021162.1	Ca_kabuli_chr03	27252135	TT	CC	1946777103
SNP_P4_33047_27261443	NC_021162.1	Ca_kabuli_chr03	27261443	GG	CC	1946777105
SNP_P4_33049_27282055	NC_021162.1	Ca_kabuli_chr03	27282055	AA	TT	1946777107
SNP_P4_33050_27282766	NC_021162.1	Ca_kabuli_chr03	27282766	GG	AA	1946777109
SNP_P4_33051_27285780	NC_021162.1	Ca_kabuli_chr03	27285780	AA	CC	1946777111
SNP_P4_33052_27291454	NC_021162.1	Ca_kabuli_chr03	27291454	GG	AA	1946777113
SNP_P4_33053_27306870	NC_021162.1	Ca_kabuli_chr03	27306870	AA	GG	1946777115

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_33055_27340082	NC_021162.1	Ca_kabuli_chr03	27340082	GG	AA	1946777120
SNP_P4_33056_27345010	NC_021162.1	Ca_kabuli_chr03	27345010	TT	CC	1946777122
SNP_P4_33057_27345014	NC_021162.1	Ca_kabuli_chr03	27345014	AA	CC	1946777124
SNP_P4_33058_27357691	NC_021162.1	Ca_kabuli_chr03	27357691	GG	AA	1946777126
SNP_P4_33059_27362680	NC_021162.1	Ca_kabuli_chr03	27362680	TT	CC	1946777128
SNP_P4_33060_27365797	NC_021162.1	Ca_kabuli_chr03	27365797	GG	AA	1946777130
SNP_P4_33062_27379106	NC_021162.1	Ca_kabuli_chr03	27379106	CC	GG	1946777132
SNP_P4_33063_27379107	NC_021162.1	Ca_kabuli_chr03	27379107	AA	TT	1946777135
SNP_P4_33064_27379149	NC_021162.1	Ca_kabuli_chr03	27379149	TT	AA	1946777137
SNP_P4_33065_27381302	NC_021162.1	Ca_kabuli_chr03	27381302	GG	CC	1946777139
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SNP_P4_33067_27430856	NC_021162.1	Ca_kabuli_chr03	27430856	AA	GG	1946777143
SNP_P4_33068_27433940	NC_021162.1	Ca_kabuli_chr03	27433940	CC	TT	1946777145
SNP_P4_33069_27496103	NC_021162.1	Ca_kabuli_chr03	27496103	AA	TT	1946777147
SNP_P4_33071_27559317	NC_021162.1	Ca_kabuli_chr03	27559317	TT	AA	1946777149
SNP_P4_33074_27582313	NC_021162.1	Ca_kabuli_chr03	27582313	AA	TT	1946777151
SNP_P4_33075_27582610	NC_021162.1	Ca_kabuli_chr03	27582610	CC	GG	1946777154
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SNP_P4_33077_27582657	NC_021162.1	Ca_kabuli_chr03	27582657	AA	TT	1946777158
SNP_P4_33078_27582658	NC_021162.1	Ca_kabuli_chr03	27582658	AA	CC	1946777160
SNP_P4_33079_27582664	NC_021162.1	Ca_kabuli_chr03	27582664	CC	TT	1946777162
SNP_P4_33081_27617967	NC_021162.1	Ca_kabuli_chr03	27617967	AA	GG	1946777164
SNP_P4_33082_27629059	NC_021162.1	Ca_kabuli_chr03	27629059	CC	TT	1946777166
SNP_P4_33083_27648605	NC_021162.1	Ca_kabuli_chr03	27648605	TT	CC	1946777169
SNP_P4_33084_27648608	NC_021162.1	Ca_kabuli_chr03	27648608	AA	CC	1946777171
SNP_P4_33085_27668130	NC_021162.1	Ca_kabuli_chr03	27668130	TT	CC	1946777173
SNP_P4_33086_27679549	NC_021162.1	Ca_kabuli_chr03	27679549	TT	GG	1946777175
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SNP_P4_33088_27690842	NC_021162.1	Ca_kabuli_chr03	27690842	TT	CC	1946777180
SNP_P4_33089_27695675	NC_021162.1	Ca_kabuli_chr03	27695675	GG	AA	1946777182
SNP_P4_33090_27701339	NC_021162.1	Ca_kabuli_chr03	27701339	TT	CC	1946777185
SNP_P4_33091_27726061	NC_021162.1	Ca_kabuli_chr03	27726061	TT	CC	1946777187
SNP_P4_33092_27731814	NC_021162.1	Ca_kabuli_chr03	27731814	CC	TT	1946777189
SNP_P4_33093_27736128	NC_021162.1	Ca_kabuli_chr03	27736128	TT	AA	1946777191
SNP_P4_33095_27794304	NC_021162.1	Ca_kabuli_chr03	27794304	AA	TT	1946777193
SNP_P4_33096_27794465	NC_021162.1	Ca_kabuli_chr03	27794465	GG	AA	1946777195
SNP_P4_33097_27828706	NC_021162.1	Ca_kabuli_chr03	27828706	CC	TT	1946777197
SNP_P4_33098_27836542	NC_021162.1	Ca_kabuli_chr03	27836542	AA	GG	1946777200
SNP_P4_33099_27840598	NC_021162.1	Ca_kabuli_chr03	27840598	CC	TT	1946777202
SNP_P4_33101_27846763	NC_021162.1	Ca_kabuli_chr03	27846763	TT	CC	1946777204
SNP_P4_33102_27849884	NC_021162.1	Ca_kabuli_chr03	27849884	TT	AA	1946777206

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_33104_27853050	NC_021162.1	Ca_kabuli_chr03	27853050	AA	TT	1946777210
SNP_P4_33105_27853054	NC_021162.1	Ca_kabuli_chr03	27853054	GG	AA	1946777212
SNP_P4_33106_27853598	NC_021162.1	Ca_kabuli_chr03	27853598	CC	AA	1946777214
SNP_P4_33108_27853957	NC_021162.1	Ca_kabuli_chr03	27853957	CC	TT	1946777217
SNP_P4_33109_27853970	NC_021162.1	Ca_kabuli_chr03	27853970	AA	TT	1946777219
SNP_P4_33110_27854097	NC_021162.1	Ca_kabuli_chr03	27854097	GG	AA	1946777221
SNP_P4_33112_27854215	NC_021162.1	Ca_kabuli_chr03	27854215	GG	AA	1946777223
SNP_P4_33113_27854224	NC_021162.1	Ca_kabuli_chr03	27854224	GG	AA	1946777225
SNP_P4_33114_27854256	NC_021162.1	Ca_kabuli_chr03	27854256	AA	GG	1946777227
SNP_P4_33115_27854270	NC_021162.1	Ca_kabuli_chr03	27854270	AA	GG	1946777229
SNP_P4_33116_27854283	NC_021162.1	Ca_kabuli_chr03	27854283	CC	TT	1946777232
SNP_P4_33117_27854306	NC_021162.1	Ca_kabuli_chr03	27854306	GG	AA	1946777234
SNP_P4_33118_27854352	NC_021162.1	Ca_kabuli_chr03	27854352	TT	CC	1946777236
SNP_P4_33119_27854355	NC_021162.1	Ca_kabuli_chr03	27854355	GG	AA	1946777238
SNP_P4_33120_27854427	NC_021162.1	Ca_kabuli_chr03	27854427	TT	AA	1946777240
SNP_P4_33121_27854555	NC_021162.1	Ca_kabuli_chr03	27854555	GG	AA	1946777242
SNP_P4_33122_27854694	NC_021162.1	Ca_kabuli_chr03	27854694	AA	GG	1946777244
SNP_P4_33123_27854695	NC_021162.1	Ca_kabuli_chr03	27854695	AA	GG	1946777246
SNP_P4_33124_27854731	NC_021162.1	Ca_kabuli_chr03	27854731	AA	GG	1946777249
SNP_P4_33125_27854735	NC_021162.1	Ca_kabuli_chr03	27854735	AA	GG	1946777251
SNP_P4_33126_27854744	NC_021162.1	Ca_kabuli_chr03	27854744	GG	TT	1946777253
SNP_P4_33128_27854816	NC_021162.1	Ca_kabuli_chr03	27854816	GG	TT	1946777255
SNP_P4_33130_27855139	NC_021162.1	Ca_kabuli_chr03	27855139	AA	CC	1946777257
SNP_P4_33131_27855273	NC_021162.1	Ca_kabuli_chr03	27855273	GG	CC	1946777259
SNP_P4_33133_27861236	NC_021162.1	Ca_kabuli_chr03	27861236	AA	GG	1946777261
SNP_P4_33134_27866897	NC_021162.1	Ca_kabuli_chr03	27866897	AA	CC	1946777263
SNP_P4_33135_27866904	NC_021162.1	Ca_kabuli_chr03	27866904	TT	CC	1946777265
SNP_P4_33136_27866950	NC_021162.1	Ca_kabuli_chr03	27866950	AA	GG	1946777268
SNP_P4_33139_27867143	NC_021162.1	Ca_kabuli_chr03	27867143	GG	TT	1946777270
SNP_P4_33140_27867177	NC_021162.1	Ca_kabuli_chr03	27867177	AA	TT	1946777272
SNP_P4_33141_27867189	NC_021162.1	Ca_kabuli_chr03	27867189	GG	AA	1946777274
SNP_P4_33142_27867193	NC_021162.1	Ca_kabuli_chr03	27867193	AA	TT	1946777276
SNP_P4_33143_27869764	NC_021162.1	Ca_kabuli_chr03	27869764	TT	AA	1946777278
SNP_P4_33144_27869836	NC_021162.1	Ca_kabuli_chr03	27869836	TT	GG	1946777281
SNP_P4_33145_27869912	NC_021162.1	Ca_kabuli_chr03	27869912	GG	AA	1946777283
SNP_P4_33146_27870079	NC_021162.1	Ca_kabuli_chr03	27870079	TT	CC	1946777285
SNP_P4_33147_27870132	NC_021162.1	Ca_kabuli_chr03	27870132	TT	CC	1946777288
SNP_P4_33148_27882614	NC_021162.1	Ca_kabuli_chr03	27882614	TT	GG	1946777290
SNP_P4_33149_27882615	NC_021162.1	Ca_kabuli_chr03	27882615	AA	TT	1946777292
SNP_P4_33151_27887405	NC_021162.1	Ca_kabuli_chr03	27887405	CC	TT	1946777294
SNP_P4_33152_27905163	NC_021162.1	Ca_kabuli_chr03	27905163	AA	TT	1946777296

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_33154_27939626	NC_021162.1	Ca_kabuli_chr03	27939626	GG	CC	1946777300
SNP_P4_33155_27970929	NC_021162.1	Ca_kabuli_chr03	27970929	CC	GG	1946777302
SNP_P4_33156_27976616	NC_021162.1	Ca_kabuli_chr03	27976616	GG	AA	1946777304
SNP_P4_33157_27994465	NC_021162.1	Ca_kabuli_chr03	27994465	AA	CC	1946777306
SNP_P4_33158_28014298	NC_021162.1	Ca_kabuli_chr03	28014298	TT	AA	1946777308
SNP_P4_33159_28026724	NC_021162.1	Ca_kabuli_chr03	28026724	TT	CC	1946777310
SNP_P4_33160_28026728	NC_021162.1	Ca_kabuli_chr03	28026728	AA	CC	1946777313
SNP_P4_33161_28037729	NC_021162.1	Ca_kabuli_chr03	28037729	GG	CC	1946777315
SNP_P4_33162_28052656	NC_021162.1	Ca_kabuli_chr03	28052656	GG	AA	1946777317
SNP_P4_33163_28052822	NC_021162.1	Ca_kabuli_chr03	28052822	CC	GG	1946777319
SNP_P4_33164_28074907	NC_021162.1	Ca_kabuli_chr03	28074907	TT	AA	1946777321
SNP_P4_33165_28075103	NC_021162.1	Ca_kabuli_chr03	28075103	CC	TT	1946777323
SNP_P4_33166_28104222	NC_021162.1	Ca_kabuli_chr03	28104222	GG	TT	1946777325
SNP_P4_33167_28109606	NC_021162.1	Ca_kabuli_chr03	28109606	TT	CC	1946777328
SNP_P4_33168_28109758	NC_021162.1	Ca_kabuli_chr03	28109758	AA	GG	1946777330
SNP_P4_33170_28167126	NC_021162.1	Ca_kabuli_chr03	28167126	AA	CC	1946777332
SNP_P4_33171_28167576	NC_021162.1	Ca_kabuli_chr03	28167576	GG	AA	1946777334
SNP_P4_33172_28173191	NC_021162.1	Ca_kabuli_chr03	28173191	TT	CC	1946777336
SNP_P4_33173_28173192	NC_021162.1	Ca_kabuli_chr03	28173192	AA	CC	1946777338
SNP_P4_33174_28179523	NC_021162.1	Ca_kabuli_chr03	28179523	GG	AA	1946777340
SNP_P4_33175_28182697	NC_021162.1	Ca_kabuli_chr03	28182697	TT	CC	1946777342
SNP_P4_33176_28184182	NC_021162.1	Ca_kabuli_chr03	28184182	AA	CC	1946777344
SNP_P4_33177_28188148	NC_021162.1	Ca_kabuli_chr03	28188148	CC	AA	1946777348
SNP_P4_33178_28188262	NC_021162.1	Ca_kabuli_chr03	28188262	CC	TT	1946777350
SNP_P4_33180_28188337	NC_021162.1	Ca_kabuli_chr03	28188337	GG	TT	1946777352
SNP_P4_33181_28188406	NC_021162.1	Ca_kabuli_chr03	28188406	AA	TT	1946777354
SNP_P4_33182_28188412	NC_021162.1	Ca_kabuli_chr03	28188412	GG	AA	1946777356
SNP_P4_33184_28188447	NC_021162.1	Ca_kabuli_chr03	28188447	TT	AA	1946777359
SNP_P4_33185_28188761	NC_021162.1	Ca_kabuli_chr03	28188761	TT	AA	1946777362
SNP_P4_33186_28188762	NC_021162.1	Ca_kabuli_chr03	28188762	AA	CC	1946777364
SNP_P4_33187_28192938	NC_021162.1	Ca_kabuli_chr03	28192938	TT	CC	1946777366
SNP_P4_33188_28192940	NC_021162.1	Ca_kabuli_chr03	28192940	GG	AA	1946777369
SNP_P4_33189_28193234	NC_021162.1	Ca_kabuli_chr03	28193234	GG	AA	1946777371
SNP_P4_33190_28193238	NC_021162.1	Ca_kabuli_chr03	28193238	GG	AA	1946777373
SNP_P4_33191_28193301	NC_021162.1	Ca_kabuli_chr03	28193301	CC	TT	1946777375
SNP_P4_33193_28196304	NC_021162.1	Ca_kabuli_chr03	28196304	GG	CC	1946777377
SNP_P4_33194_28196360	NC_021162.1	Ca_kabuli_chr03	28196360	GG	AA	1946777379
SNP_P4_33195_28196367	NC_021162.1	Ca_kabuli_chr03	28196367	TT	CC	1946777381
SNP_P4_33196_28196370	NC_021162.1	Ca_kabuli_chr03	28196370	AA	GG	1946777383
SNP_P4_33197_28198303	NC_021162.1	Ca_kabuli_chr03	28198303	TT	AA	1946777385
SNP_P4_33198_28198304	NC_021162.1	Ca_kabuli_chr03	28198304	CC	AA	1946777387

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_33200_28198384	NC_021162.1	Ca_kabuli_chr03	28198384	CC	TT	1946777391
SNP_P4_33201_28203824	NC_021162.1	Ca_kabuli_chr03	28203824	AA	GG	1946777393
SNP_P4_33202_28203837	NC_021162.1	Ca_kabuli_chr03	28203837	GG	CC	1946777395
SNP_P4_33203_28203842	NC_021162.1	Ca_kabuli_chr03	28203842	AA	GG	1946777397
SNP_P4_33204_28262373	NC_021162.1	Ca_kabuli_chr03	28262373	TT	GG	1946777399
SNP_P4_33207_28274804	NC_021162.1	Ca_kabuli_chr03	28274804	AA	GG	1946777401
SNP_P4_33211_28316420	NC_021162.1	Ca_kabuli_chr03	28316420	TT	CC	1946777403
SNP_P4_33214_28335635	NC_021162.1	Ca_kabuli_chr03	28335635	AA	GG	1946777405
SNP_P4_33215_28354917	NC_021162.1	Ca_kabuli_chr03	28354917	GG	AA	1946777407
SNP_P4_33216_28358002	NC_021162.1	Ca_kabuli_chr03	28358002	TT	AA	1946777410
SNP_P4_33217_28362634	NC_021162.1	Ca_kabuli_chr03	28362634	TT	CC	1946777412
SNP_P4_33219_28407763	NC_021162.1	Ca_kabuli_chr03	28407763	CC	TT	1946777414
SNP_P4_33220_28407798	NC_021162.1	Ca_kabuli_chr03	28407798	TT	CC	1946777416
SNP_P4_33221_28407926	NC_021162.1	Ca_kabuli_chr03	28407926	TT	AA	1946777418
SNP_P4_33223_28428317	NC_021162.1	Ca_kabuli_chr03	28428317	GG	AA	1946777421
SNP_P4_33224_28514728	NC_021162.1	Ca_kabuli_chr03	28514728	AA	CC	1946777423
SNP_P4_33225_28514733	NC_021162.1	Ca_kabuli_chr03	28514733	GG	AA	1946777425
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SNP_P4_33227_28533333	NC_021162.1	Ca_kabuli_chr03	28533333	AA	CC	1946777430
SNP_P4_33229_28535614	NC_021162.1	Ca_kabuli_chr03	28535614	AA	TT	1946777432
SNP_P4_33230_28537904	NC_021162.1	Ca_kabuli_chr03	28537904	TT	CC	1946777435
SNP_P4_33231_28537908	NC_021162.1	Ca_kabuli_chr03	28537908	TT	CC	1946777437
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SNP_P4_33233_28589084	NC_021162.1	Ca_kabuli_chr03	28589084	AA	GG	1946777441
SNP_P4_33234_28619328	NC_021162.1	Ca_kabuli_chr03	28619328	GG	AA	1946777443
SNP_P4_33235_28619329	NC_021162.1	Ca_kabuli_chr03	28619329	AA	GG	1946777445
SNP_P4_33236_28624450	NC_021162.1	Ca_kabuli_chr03	28624450	TT	AA	1946777447
SNP_P4_33238_28672643	NC_021162.1	Ca_kabuli_chr03	28672643	TT	CC	1946777450
SNP_P4_33239_28702017	NC_021162.1	Ca_kabuli_chr03	28702017	AA	CC	1946777452
SNP_P4_33240_28702038	NC_021162.1	Ca_kabuli_chr03	28702038	AA	CC	1946777454
SNP_P4_33241_28759552	NC_021162.1	Ca_kabuli_chr03	28759552	CC	TT	1946777456
SNP_P4_33242_28778849	NC_021162.1	Ca_kabuli_chr03	28778849	GG	TT	1946777458
SNP_P4_33243_28780163	NC_021162.1	Ca_kabuli_chr03	28780163	AA	GG	1946777460
SNP_P4_33244_28783106	NC_021162.1	Ca_kabuli_chr03	28783106	CC	TT	1946777463
SNP_P4_33247_28797235	NC_021162.1	Ca_kabuli_chr03	28797235	GG	TT	1946777465
SNP_P4_33249_28797835	NC_021162.1	Ca_kabuli_chr03	28797835	GG	CC	1946777467
SNP_P4_33250_28798991	NC_021162.1	Ca_kabuli_chr03	28798991	AA	TT	1946777469
SNP_P4_33251_28799300	NC_021162.1	Ca_kabuli_chr03	28799300	GG	AA	1946777471
SNP_P4_33252_28799332	NC_021162.1	Ca_kabuli_chr03	28799332	AA	TT	1946777473
SNP_P4_33253_28799366	NC_021162.1	Ca_kabuli_chr03	28799366	CC	TT	1946777475
SNP_P4_33254_28799374	NC_021162.1	Ca_kabuli_chr03	28799374	TT	AA	1946777477

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_33257_28799600	NC_021162.1	Ca_kabuli_chr03	28799600	GG	AA	1946777481
SNP_P4_33258_28799751	NC_021162.1	Ca_kabuli_chr03	28799751	CC	TT	1946777484
SNP_P4_33259_28799779	NC_021162.1	Ca_kabuli_chr03	28799779	TT	CC	1946777486
SNP_P4_33260_28799803	NC_021162.1	Ca_kabuli_chr03	28799803	CC	AA	1946777488
SNP_P4_33261_28799805	NC_021162.1	Ca_kabuli_chr03	28799805	GG	TT	1946777490
SNP_P4_33262_28800183	NC_021162.1	Ca_kabuli_chr03	28800183	GG	AA	1946777492
SNP_P4_33263_28820967	NC_021162.1	Ca_kabuli_chr03	28820967	AA	GG	1946777494
SNP_P4_33265_28839094	NC_021162.1	Ca_kabuli_chr03	28839094	CC	GG	1946777496
SNP_P4_33266_28839676	NC_021162.1	Ca_kabuli_chr03	28839676	TT	CC	1946777498
SNP_P4_33267_28842216	NC_021162.1	Ca_kabuli_chr03	28842216	GG	TT	1946777500
SNP_P4_33268_28844373	NC_021162.1	Ca_kabuli_chr03	28844373	TT	CC	1946777502
SNP_P4_33269_28889456	NC_021162.1	Ca_kabuli_chr03	28889456	TT	AA	1946777504
SNP_P4_33270_28902233	NC_021162.1	Ca_kabuli_chr03	28902233	AA	TT	1946777507
SNP_P4_33271_28918929	NC_021162.1	Ca_kabuli_chr03	28918929	AA	CC	1946777509
SNP_P4_33272_28922573	NC_021162.1	Ca_kabuli_chr03	28922573	GG	AA	1946777511
SNP_P4_33273_28923981	NC_021162.1	Ca_kabuli_chr03	28923981	AA	CC	1946777513
SNP_P4_33274_28924217	NC_021162.1	Ca_kabuli_chr03	28924217	AA	GG	1946777516
SNP_P4_33275_28984577	NC_021162.1	Ca_kabuli_chr03	28984577	TT	CC	1946777518
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SNP_P4_33279_28994904	NC_021162.1	Ca_kabuli_chr03	28994904	TT	GG	1946777528
SNP_P4_33280_28994916	NC_021162.1	Ca_kabuli_chr03	28994916	AA	GG	1946777530
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SNP_P4_33283_28995047	NC_021162.1	Ca_kabuli_chr03	28995047	CC	TT	1946777535
SNP_P4_33284_28995098	NC_021162.1	Ca_kabuli_chr03	28995098	AA	GG	1946777537
SNP_P4_33285_28995112	NC_021162.1	Ca_kabuli_chr03	28995112	CC	AA	1946777539
SNP_P4_33287_28995158	NC_021162.1	Ca_kabuli_chr03	28995158	TT	CC	1946777541
SNP_P4_33288_28995293	NC_021162.1	Ca_kabuli_chr03	28995293	GG	CC	1946777543
SNP_P4_33289_28995379	NC_021162.1	Ca_kabuli_chr03	28995379	AA	GG	1946777545
SNP_P4_33290_28995407	NC_021162.1	Ca_kabuli_chr03	28995407	AA	GG	1946777547
SNP_P4_33291_28995492	NC_021162.1	Ca_kabuli_chr03	28995492	AA	GG	1946777550
SNP_P4_33292_28996573	NC_021162.1	Ca_kabuli_chr03	28996573	TT	CC	1946777552
SNP_P4_33293_28996584	NC_021162.1	Ca_kabuli_chr03	28996584	CC	TT	1946777554
SNP_P4_33294_28996585	NC_021162.1	Ca_kabuli_chr03	28996585	AA	GG	1946777556
SNP_P4_33295_28996587	NC_021162.1	Ca_kabuli_chr03	28996587	TT	AA	1946777558
SNP_P4_33296_28996595	NC_021162.1	Ca_kabuli_chr03	28996595	TT	GG	1946777560
SNP_P4_33297_28996624	NC_021162.1	Ca_kabuli_chr03	28996624	GG	TT	1946777562
SNP_P4_33299_28996928	NC_021162.1	Ca_kabuli_chr03	28996928	AA	GG	1946777564
SNP_P4_33300_28996931	NC_021162.1	Ca_kabuli_chr03	28996931	AA	GG	1946777566
SNP_P4_33301_28996935	NC_021162.1	Ca_kabuli_chr03	28996935	AA	GG	1946777568

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_33303_28996977	NC_021162.1	Ca_kabuli_chr03	28996977	TT	CC	1946777573
SNP_P4_33304_28997022	NC_021162.1	Ca_kabuli_chr03	28997022	CC	TT	1946777575
SNP_P4_33305_28997027	NC_021162.1	Ca_kabuli_chr03	28997027	AA	CC	1946777577
SNP_P4_33306_28997337	NC_021162.1	Ca_kabuli_chr03	28997337	CC	TT	1946777579
SNP_P4_33307_28997338	NC_021162.1	Ca_kabuli_chr03	28997338	AA	GG	1946777581
SNP_P4_33308_28997389	NC_021162.1	Ca_kabuli_chr03	28997389	AA	CC	1946777583
SNP_P4_33309_28997427	NC_021162.1	Ca_kabuli_chr03	28997427	CC	TT	1946777585
SNP_P4_33310_28999521	NC_021162.1	Ca_kabuli_chr03	28999521	CC	TT	1946777587
SNP_P4_33311_28999544	NC_021162.1	Ca_kabuli_chr03	28999544	TT	AA	1946777590
SNP_P4_33312_28999585	NC_021162.1	Ca_kabuli_chr03	28999585	GG	AA	1946777592
SNP_P4_33313_28999587	NC_021162.1	Ca_kabuli_chr03	28999587	CC	GG	1946777594
SNP_P4_33314_28999620	NC_021162.1	Ca_kabuli_chr03	28999620	AA	GG	1946777596
SNP_P4_33316_28999770	NC_021162.1	Ca_kabuli_chr03	28999770	AA	GG	1946777598
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SNP_P4_33318_28999785	NC_021162.1	Ca_kabuli_chr03	28999785	CC	GG	1946777602
SNP_P4_33319_28999798	NC_021162.1	Ca_kabuli_chr03	28999798	CC	TT	1946777604
SNP_P4_33320_28999814	NC_021162.1	Ca_kabuli_chr03	28999814	AA	TT	1946777606
SNP_P4_33321_28999841	NC_021162.1	Ca_kabuli_chr03	28999841	AA	GG	1946777608
SNP_P4_33322_28999900	NC_021162.1	Ca_kabuli_chr03	28999900	CC	TT	1946777610
SNP_P4_33323_28999916	NC_021162.1	Ca_kabuli_chr03	28999916	TT	AA	1946777612
SNP_P4_33324_28999921	NC_021162.1	Ca_kabuli_chr03	28999921	AA	TT	1946777614
SNP_P4_33325_29000035	NC_021162.1	Ca_kabuli_chr03	29000035	TT	GG	1946777616
SNP_P4_33326_29000040	NC_021162.1	Ca_kabuli_chr03	29000040	CC	GG	1946777619
SNP_P4_33328_29000093	NC_021162.1	Ca_kabuli_chr03	29000093	AA	GG	1946777621
SNP_P4_33329_29000161	NC_021162.1	Ca_kabuli_chr03	29000161	TT	GG	1946777623
SNP_P4_33330_29000220	NC_021162.1	Ca_kabuli_chr03	29000220	GG	AA	1946777625
SNP_P4_33331_29000223	NC_021162.1	Ca_kabuli_chr03	29000223	GG	AA	1946777627
SNP_P4_33332_29000240	NC_021162.1	Ca_kabuli_chr03	29000240	GG	AA	1946777629
SNP_P4_33333_29000268	NC_021162.1	Ca_kabuli_chr03	29000268	GG	AA	1946777631
SNP_P4_33334_29000594	NC_021162.1	Ca_kabuli_chr03	29000594	CC	GG	1946777634
SNP_P4_33335_29000627	NC_021162.1	Ca_kabuli_chr03	29000627	GG	CC	1946777636
SNP_P4_33336_29000667	NC_021162.1	Ca_kabuli_chr03	29000667	CC	AA	1946777638
SNP_P4_33337_29000745	NC_021162.1	Ca_kabuli_chr03	29000745	GG	AA	1946777640
SNP_P4_33338_29000758	NC_021162.1	Ca_kabuli_chr03	29000758	GG	TT	1946777642
SNP_P4_33339_29000770	NC_021162.1	Ca_kabuli_chr03	29000770	AA	GG	1946777645
SNP_P4_33340_29000810	NC_021162.1	Ca_kabuli_chr03	29000810	CC	TT	1946777647
SNP_P4_33342_29000965	NC_021162.1	Ca_kabuli_chr03	29000965	GG	TT	1946777649
SNP_P4_33343_29000970	NC_021162.1	Ca_kabuli_chr03	29000970	AA	TT	1946777651
SNP_P4_33344_29000975	NC_021162.1	Ca_kabuli_chr03	29000975	AA	CC	1946777653
SNP_P4_33345_29000981	NC_021162.1	Ca_kabuli_chr03	29000981	CC	TT	1946777655
SNP_P4_33346_29001038	NC_021162.1	Ca_kabuli_chr03	29001038	TT	CC	1946777657

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_33348_29001068	NC_021162.1	Ca_kabuli_chr03	29001068	GG	AA	1946777662
SNP_P4_33349_29001074	NC_021162.1	Ca_kabuli_chr03	29001074	TT	CC	1946777664
SNP_P4_33350_29001178	NC_021162.1	Ca_kabuli_chr03	29001178	CC	TT	1946777666
SNP_P4_33351_29001180	NC_021162.1	Ca_kabuli_chr03	29001180	GG	AA	1946777669
SNP_P4_33352_29001210	NC_021162.1	Ca_kabuli_chr03	29001210	CC	AA	1946777671
SNP_P4_33353_29002780	NC_021162.1	Ca_kabuli_chr03	29002780	TT	AA	1946777673
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SNP_P4_33356_29006787	NC_021162.1	Ca_kabuli_chr03	29006787	CC	TT	1946777677
SNP_P4_33357_29007134	NC_021162.1	Ca_kabuli_chr03	29007134	CC	TT	1946777679
SNP_P4_33358_29007146	NC_021162.1	Ca_kabuli_chr03	29007146	TT	CC	1946777681
SNP_P4_33359_29012256	NC_021162.1	Ca_kabuli_chr03	29012256	TT	CC	1946777683
SNP_P4_33360_29012271	NC_021162.1	Ca_kabuli_chr03	29012271	TT	CC	1946777685
SNP_P4_33361_29012275	NC_021162.1	Ca_kabuli_chr03	29012275	AA	GG	1946777687
SNP_P4_33364_29048822	NC_021162.1	Ca_kabuli_chr03	29048822	AA	CC	1946777689
SNP_P4_33365_29048824	NC_021162.1	Ca_kabuli_chr03	29048824	AA	CC	1946777692
SNP_P4_33367_29073856	NC_021162.1	Ca_kabuli_chr03	29073856	AA	CC	1946777694
SNP_P4_33370_29089880	NC_021162.1	Ca_kabuli_chr03	29089880	CC	AA	1946777696
SNP_P4_33373_29091826	NC_021162.1	Ca_kabuli_chr03	29091826	GG	AA	1946777698
SNP_P4_33374_29127758	NC_021162.1	Ca_kabuli_chr03	29127758	GG	AA	1946777700
SNP_P4_33375_29132058	NC_021162.1	Ca_kabuli_chr03	29132058	TT	CC	1946777702
SNP_P4_33376_29161048	NC_021162.1	Ca_kabuli_chr03	29161048	TT	AA	1946777705
SNP_P4_33377_29161985	NC_021162.1	Ca_kabuli_chr03	29161985	AA	TT	1946777707
SNP_P4_33378_29174538	NC_021162.1	Ca_kabuli_chr03	29174538	TT	AA	1946777709
SNP_P4_33380_29213380	NC_021162.1	Ca_kabuli_chr03	29213380	AA	GG	1946777711
SNP_P4_33381_29214525	NC_021162.1	Ca_kabuli_chr03	29214525	CC	TT	1946777714
SNP_P4_33382_29221154	NC_021162.1	Ca_kabuli_chr03	29221154	AA	GG	1946777716
SNP_P4_33384_29244144	NC_021162.1	Ca_kabuli_chr03	29244144	GG	AA	1946777718
SNP_P4_33385_29244389	NC_021162.1	Ca_kabuli_chr03	29244389	AA	CC	1946777720
SNP_P4_33386_29244746	NC_021162.1	Ca_kabuli_chr03	29244746	AA	TT	1946777722
SNP_P4_33387_29246875	NC_021162.1	Ca_kabuli_chr03	29246875	CC	TT	1946777724
SNP_P4_33388_29246883	NC_021162.1	Ca_kabuli_chr03	29246883	GG	CC	1946777726
SNP_P4_33389_29248366	NC_021162.1	Ca_kabuli_chr03	29248366	TT	CC	1946777728
SNP_P4_33390_29249434	NC_021162.1	Ca_kabuli_chr03	29249434	CC	TT	1946777730
SNP_P4_33391_29249462	NC_021162.1	Ca_kabuli_chr03	29249462	TT	GG	1946777732
SNP_P4_33392_29249503	NC_021162.1	Ca_kabuli_chr03	29249503	AA	GG	1946777734
SNP_P4_33393_29249508	NC_021162.1	Ca_kabuli_chr03	29249508	TT	GG	1946777736
SNP_P4_33395_29249535	NC_021162.1	Ca_kabuli_chr03	29249535	GG	AA	1946777738
SNP_P4_33396_29249553	NC_021162.1	Ca_kabuli_chr03	29249553	AA	GG	1946777741
SNP_P4_33397_29249614	NC_021162.1	Ca_kabuli_chr03	29249614	AA	GG	1946777743
SNP_P4_33398_29249681	NC_021162.1	Ca_kabuli_chr03	29249681	AA	CC	1946777745
SNP_P4_33399_29249942	NC_021162.1	Ca_kabuli_chr03	29249942	TT	CC	1946777747

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_33401_29250029	NC_021162.1	Ca_kabuli_chr03	29250029	GG	AA	1946777751
SNP_P4_33402_29250060	NC_021162.1	Ca_kabuli_chr03	29250060	GG	AA	1946777753
SNP_P4_33403_29251608	NC_021162.1	Ca_kabuli_chr03	29251608	CC	TT	1946777755
SNP_P4_33404_29251637	NC_021162.1	Ca_kabuli_chr03	29251637	CC	AA	1946777757
SNP_P4_33405_29251702	NC_021162.1	Ca_kabuli_chr03	29251702	GG	TT	1946777759
SNP_P4_33408_29318929	NC_021162.1	Ca_kabuli_chr03	29318929	GG	AA	1946777761
SNP_P4_33409_29322235	NC_021162.1	Ca_kabuli_chr03	29322235	CC	AA	1946777764
SNP_P4_33411_29341052	NC_021162.1	Ca_kabuli_chr03	29341052	CC	TT	1946777766
SNP_P4_33412_29345228	NC_021162.1	Ca_kabuli_chr03	29345228	AA	CC	1946777767
SNP_P4_33414_29370421	NC_021162.1	Ca_kabuli_chr03	29370421	CC	TT	1946777768
SNP_P4_33415_29407813	NC_021162.1	Ca_kabuli_chr03	29407813	CC	TT	1946777770
SNP_P4_33417_29495200	NC_021162.1	Ca_kabuli_chr03	29495200	CC	GG	1946777772
SNP_P4_33418_29506963	NC_021162.1	Ca_kabuli_chr03	29506963	TT	GG	1946777774
SNP_P4_33421_29535227	NC_021162.1	Ca_kabuli_chr03	29535227	GG	AA	1946777776
SNP_P4_33422_29540939	NC_021162.1	Ca_kabuli_chr03	29540939	TT	CC	1946777778
SNP_P4_33423_29541829	NC_021162.1	Ca_kabuli_chr03	29541829	TT	CC	1946777780
SNP_P4_33424_29551519	NC_021162.1	Ca_kabuli_chr03	29551519	TT	CC	1946777782
SNP_P4_33426_29553660	NC_021162.1	Ca_kabuli_chr03	29553660	AA	TT	1946777784
SNP_P4_33427_29553761	NC_021162.1	Ca_kabuli_chr03	29553761	TT	GG	1946777786
SNP_P4_33428_29553762	NC_021162.1	Ca_kabuli_chr03	29553762	GG	AA	1946777788
SNP_P4_33430_29560743	NC_021162.1	Ca_kabuli_chr03	29560743	AA	GG	1946777790
SNP_P4_33431_29560745	NC_021162.1	Ca_kabuli_chr03	29560745	AA	CC	1946777793
SNP_P4_33432_29564352	NC_021162.1	Ca_kabuli_chr03	29564352	GG	AA	1946777795
SNP_P4_33433_29570466	NC_021162.1	Ca_kabuli_chr03	29570466	AA	GG	1946777797
SNP_P4_33434_29587174	NC_021162.1	Ca_kabuli_chr03	29587174	CC	TT	1946777799
SNP_P4_33435_29613054	NC_021162.1	Ca_kabuli_chr03	29613054	TT	GG	1946777801
SNP_P4_33436_29613057	NC_021162.1	Ca_kabuli_chr03	29613057	TT	CC	1946777803
SNP_P4_33438_29654077	NC_021162.1	Ca_kabuli_chr03	29654077	TT	AA	1946777805
SNP_P4_33439_29687755	NC_021162.1	Ca_kabuli_chr03	29687755	GG	TT	1946777808
SNP_P4_33440_29691890	NC_021162.1	Ca_kabuli_chr03	29691890	TT	AA	1946777810
SNP_P4_33441_29717197	NC_021162.1	Ca_kabuli_chr03	29717197	TT	CC	1946777812
SNP_P4_33442_29718103	NC_021162.1	Ca_kabuli_chr03	29718103	CC	TT	1946777814
SNP_P4_33443_29735720	NC_021162.1	Ca_kabuli_chr03	29735720	GG	TT	1946777816
SNP_P4_33444_29742799	NC_021162.1	Ca_kabuli_chr03	29742799	TT	AA	1946777818
SNP_P4_33445_29762301	NC_021162.1	Ca_kabuli_chr03	29762301	TT	CC	1946777820
SNP_P4_33446_29762305	NC_021162.1	Ca_kabuli_chr03	29762305	TT	GG	1946777822
SNP_P4_33448_29826318	NC_021162.1	Ca_kabuli_chr03	29826318	CC	TT	1946777824
SNP_P4_33450_29831091	NC_021162.1	Ca_kabuli_chr03	29831091	GG	AA	1946777827
SNP_P4_33453_29858723	NC_021162.1	Ca_kabuli_chr03	29858723	AA	TT	1946777829
SNP_P4_33455_29867328	NC_021162.1	Ca_kabuli_chr03	29867328	GG	TT	1946777831
SNP_P4_33456_29872908	NC_021162.1	Ca_kabuli_chr03	29872908	AA	CC	1946777833

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_33459_29934810	NC_021162.1	Ca_kabuli_chr03	29934810	AA	GG	1946777838
SNP_P4_33460_29937161	NC_021162.1	Ca_kabuli_chr03	29937161	AA	GG	1946777840
SNP_P4_33461_29946381	NC_021162.1	Ca_kabuli_chr03	29946381	CC	TT	1946777842
SNP_P4_33463_29950693	NC_021162.1	Ca_kabuli_chr03	29950693	CC	TT	1946777844
SNP_P4_33464_29967289	NC_021162.1	Ca_kabuli_chr03	29967289	TT	GG	1946777846
SNP_P4_33465_29980359	NC_021162.1	Ca_kabuli_chr03	29980359	CC	AA	1946777848
SNP_P4_33466_29980727	NC_021162.1	Ca_kabuli_chr03	29980727	TT	AA	1946777850
SNP_P4_33467_29993001	NC_021162.1	Ca_kabuli_chr03	29993001	TT	CC	1946777852
SNP_P4_33468_29994022	NC_021162.1	Ca_kabuli_chr03	29994022	AA	TT	1946777853
SNP_P4_33470_30029610	NC_021162.1	Ca_kabuli_chr03	30029610	AA	CC	1946777855
SNP_P4_33471_30033954	NC_021162.1	Ca_kabuli_chr03	30033954	CC	AA	1946777857
SNP_P4_33472_30046024	NC_021162.1	Ca_kabuli_chr03	30046024	GG	CC	1946777859
SNP_P4_33475_30069641	NC_021162.1	Ca_kabuli_chr03	30069641	CC	TT	1946777861
SNP_P4_33476_30072323	NC_021162.1	Ca_kabuli_chr03	30072323	TT	GG	1946777863
SNP_P4_33477_30072324	NC_021162.1	Ca_kabuli_chr03	30072324	TT	CC	1946777866
SNP_P4_33478_30072669	NC_021162.1	Ca_kabuli_chr03	30072669	AA	GG	1946777868
SNP_P4_33480_30085370	NC_021162.1	Ca_kabuli_chr03	30085370	GG	AA	1946777870
SNP_P4_33481_30098175	NC_021162.1	Ca_kabuli_chr03	30098175	CC	TT	1946777872
SNP_P4_33482_30103611	NC_021162.1	Ca_kabuli_chr03	30103611	AA	GG	1946777874
SNP_P4_33483_30103626	NC_021162.1	Ca_kabuli_chr03	30103626	GG	AA	1946777876
SNP_P4_33484_30103638	NC_021162.1	Ca_kabuli_chr03	30103638	TT	CC	1946777878
SNP_P4_33485_30103651	NC_021162.1	Ca_kabuli_chr03	30103651	TT	GG	1946777880
SNP_P4_33486_30109775	NC_021162.1	Ca_kabuli_chr03	30109775	CC	AA	1946777882
SNP_P4_33488_30134414	NC_021162.1	Ca_kabuli_chr03	30134414	TT	CC	1946777884
SNP_P4_33489_30136201	NC_021162.1	Ca_kabuli_chr03	30136201	AA	GG	1946777886
SNP_P4_33490_30154852	NC_021162.1	Ca_kabuli_chr03	30154852	CC	TT	1946777888
SNP_P4_33491_30180279	NC_021162.1	Ca_kabuli_chr03	30180279	AA	CC	1946777890
SNP_P4_33492_30220664	NC_021162.1	Ca_kabuli_chr03	30220664	GG	CC	1946777892
SNP_P4_33493_30226451	NC_021162.1	Ca_kabuli_chr03	30226451	TT	CC	1946777894
SNP_P4_33494_30244945	NC_021162.1	Ca_kabuli_chr03	30244945	AA	GG	1946777896
SNP_P4_33495_30252353	NC_021162.1	Ca_kabuli_chr03	30252353	AA	GG	1946777898
SNP_P4_33496_30252374	NC_021162.1	Ca_kabuli_chr03	30252374	AA	GG	1946777900
SNP_P4_33497_30252751	NC_021162.1	Ca_kabuli_chr03	30252751	TT	AA	1946777902
SNP_P4_33498_30260469	NC_021162.1	Ca_kabuli_chr03	30260469	CC	TT	1946777905
SNP_P4_33499_30262038	NC_021162.1	Ca_kabuli_chr03	30262038	CC	TT	1946777907
SNP_P4_33500_30277302	NC_021162.1	Ca_kabuli_chr03	30277302	TT	AA	1946777909
SNP_P4_33501_30283142	NC_021162.1	Ca_kabuli_chr03	30283142	TT	GG	1946777911
SNP_P4_33502_30283147	NC_021162.1	Ca_kabuli_chr03	30283147	TT	AA	1946777913
SNP_P4_33503_30283148	NC_021162.1	Ca_kabuli_chr03	30283148	TT	GG	1946777915
SNP_P4_33504_30283156	NC_021162.1	Ca_kabuli_chr03	30283156	TT	AA	1946777917
SNP_P4_33505_30283888	NC_021162.1	Ca_kabuli_chr03	30283888	TT	CC	1946777919

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_33507_30288195	NC_021162.1	Ca_kabuli_chr03	30288195	TT	CC	1946777923
SNP_P4_33509_30291933	NC_021162.1	Ca_kabuli_chr03	30291933	AA	TT	1946777925
SNP_P4_33510_30293456	NC_021162.1	Ca_kabuli_chr03	30293456	GG	TT	1946777929
SNP_P4_33511_30293591	NC_021162.1	Ca_kabuli_chr03	30293591	CC	TT	1946777931
SNP_P4_33513_30347518	NC_021162.1	Ca_kabuli_chr03	30347518	CC	TT	1946777933
SNP_P4_33514_30381451	NC_021162.1	Ca_kabuli_chr03	30381451	TT	AA	1946777936
SNP_P4_33515_30393306	NC_021162.1	Ca_kabuli_chr03	30393306	GG	AA	1946777938
SNP_P4_33516_30399794	NC_021162.1	Ca_kabuli_chr03	30399794	AA	GG	1946777940
SNP_P4_33517_30412995	NC_021162.1	Ca_kabuli_chr03	30412995	GG	AA	1946777942
SNP_P4_33518_30420634	NC_021162.1	Ca_kabuli_chr03	30420634	AA	GG	1946777945
SNP_P4_33520_30438938	NC_021162.1	Ca_kabuli_chr03	30438938	TT	AA	1946777947
SNP_P4_33521_30461610	NC_021162.1	Ca_kabuli_chr03	30461610	GG	AA	1946777949
SNP_P4_33522_30479227	NC_021162.1	Ca_kabuli_chr03	30479227	GG	AA	1946777951
SNP_P4_33523_30488085	NC_021162.1	Ca_kabuli_chr03	30488085	TT	AA	1946777953
SNP_P4_33524_30491216	NC_021162.1	Ca_kabuli_chr03	30491216	TT	GG	1946777955
SNP_P4_33525_30491396	NC_021162.1	Ca_kabuli_chr03	30491396	GG	AA	1946777958
SNP_P4_33526_30495532	NC_021162.1	Ca_kabuli_chr03	30495532	AA	TT	1946777960
SNP_P4_33527_30497743	NC_021162.1	Ca_kabuli_chr03	30497743	AA	GG	1946777962
SNP_P4_33528_30497746	NC_021162.1	Ca_kabuli_chr03	30497746	AA	TT	1946777964
SNP_P4_33529_30510899	NC_021162.1	Ca_kabuli_chr03	30510899	AA	TT	1946777966
SNP_P4_33530_30515799	NC_021162.1	Ca_kabuli_chr03	30515799	CC	TT	1946777968
SNP_P4_33531_30530937	NC_021162.1	Ca_kabuli_chr03	30530937	GG	TT	1946777970
SNP_P4_33532_30530962	NC_021162.1	Ca_kabuli_chr03	30530962	GG	AA	1946777973
SNP_P4_33533_30531328	NC_021162.1	Ca_kabuli_chr03	30531328	CC	GG	1946777975
SNP_P4_33534_30555163	NC_021162.1	Ca_kabuli_chr03	30555163	TT	AA	1946777978
SNP_P4_33535_30559326	NC_021162.1	Ca_kabuli_chr03	30559326	TT	GG	1946777980
SNP_P4_33536_30559332	NC_021162.1	Ca_kabuli_chr03	30559332	CC	GG	1946777982
SNP_P4_33539_30566770	NC_021162.1	Ca_kabuli_chr03	30566770	TT	CC	1946777984
SNP_P4_33540_30566986	NC_021162.1	Ca_kabuli_chr03	30566986	AA	CC	1946777986
SNP_P4_33541_30567622	NC_021162.1	Ca_kabuli_chr03	30567622	CC	GG	1946777988
SNP_P4_33542_30573976	NC_021162.1	Ca_kabuli_chr03	30573976	AA	GG	1946777990
SNP_P4_33543_30582485	NC_021162.1	Ca_kabuli_chr03	30582485	AA	CC	1946777992
SNP_P4_33544_30582488	NC_021162.1	Ca_kabuli_chr03	30582488	TT	AA	1946777994
SNP_P4_33545_30582493	NC_021162.1	Ca_kabuli_chr03	30582493	GG	AA	1946777997
SNP_P4_33546_30584947	NC_021162.1	Ca_kabuli_chr03	30584947	TT	CC	1946777999
SNP_P4_33547_30602133	NC_021162.1	Ca_kabuli_chr03	30602133	TT	GG	1946778001
SNP_P4_33548_30602207	NC_021162.1	Ca_kabuli_chr03	30602207	AA	TT	1946778003
SNP_P4_33549_30602216	NC_021162.1	Ca_kabuli_chr03	30602216	GG	AA	1946778005
SNP_P4_33550_30602272	NC_021162.1	Ca_kabuli_chr03	30602272	GG	TT	1946778007
SNP_P4_33551_30602304	NC_021162.1	Ca_kabuli_chr03	30602304	TT	AA	1946778009
SNP_P4_33553_30602366	NC_021162.1	Ca_kabuli_chr03	30602366	AA	GG	1946778011

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_33555_30609231	NC_021162.1	Ca_kabuli_chr03	30609231	CC	TT	1946778016
SNP_P4_33556_30616581	NC_021162.1	Ca_kabuli_chr03	30616581	TT	CC	1946778018
SNP_P4_33557_30626462	NC_021162.1	Ca_kabuli_chr03	30626462	TT	CC	1946778020
SNP_P4_33558_30630165	NC_021162.1	Ca_kabuli_chr03	30630165	TT	GG	1946778022
SNP_P4_33559_30637349	NC_021162.1	Ca_kabuli_chr03	30637349	AA	GG	1946778024
SNP_P4_33560_30646505	NC_021162.1	Ca_kabuli_chr03	30646505	GG	AA	1946778026
SNP_P4_33562_30697303	NC_021162.1	Ca_kabuli_chr03	30697303	AA	GG	1946778028
SNP_P4_33563_30703408	NC_021162.1	Ca_kabuli_chr03	30703408	CC	TT	1946778030
SNP_P4_33565_30733177	NC_021162.1	Ca_kabuli_chr03	30733177	AA	GG	1946778032
SNP_P4_33566_30758138	NC_021162.1	Ca_kabuli_chr03	30758138	CC	TT	1946778035
SNP_P4_33569_30779182	NC_021162.1	Ca_kabuli_chr03	30779182	TT	CC	1946778037
SNP_P4_33572_30815376	NC_021162.1	Ca_kabuli_chr03	30815376	GG	AA	1946778039
SNP_P4_33573_30820175	NC_021162.1	Ca_kabuli_chr03	30820175	TT	GG	1946778041
SNP_P4_33574_30820176	NC_021162.1	Ca_kabuli_chr03	30820176	TT	CC	1946778043
SNP_P4_33575_30820186	NC_021162.1	Ca_kabuli_chr03	30820186	GG	AA	1946778045
SNP_P4_33576_30820208	NC_021162.1	Ca_kabuli_chr03	30820208	AA	GG	1946778047
SNP_P4_33578_30846355	NC_021162.1	Ca_kabuli_chr03	30846355	CC	AA	1946778050
SNP_P4_33579_30846404	NC_021162.1	Ca_kabuli_chr03	30846404	AA	GG	1946778052
SNP_P4_33580_30846471	NC_021162.1	Ca_kabuli_chr03	30846471	TT	AA	1946778054
SNP_P4_33581_30846658	NC_021162.1	Ca_kabuli_chr03	30846658	CC	TT	1946778056
SNP_P4_33582_30846708	NC_021162.1	Ca_kabuli_chr03	30846708	CC	TT	1946778058
SNP_P4_33583_30846773	NC_021162.1	Ca_kabuli_chr03	30846773	AA	GG	1946778060
SNP_P4_33584_30846791	NC_021162.1	Ca_kabuli_chr03	30846791	TT	CC	1946778063
SNP_P4_33585_30846803	NC_021162.1	Ca_kabuli_chr03	30846803	AA	GG	1946778065
SNP_P4_33586_30846854	NC_021162.1	Ca_kabuli_chr03	30846854	AA	GG	1946778067
SNP_P4_33587_30860805	NC_021162.1	Ca_kabuli_chr03	30860805	TT	CC	1946778069
SNP_P4_33588_30872345	NC_021162.1	Ca_kabuli_chr03	30872345	AA	TT	1946778071
SNP_P4_33589_30872441	NC_021162.1	Ca_kabuli_chr03	30872441	TT	AA	1946778073
SNP_P4_33592_30895072	NC_021162.1	Ca_kabuli_chr03	30895072	CC	TT	1946778075
SNP_P4_33593_30898282	NC_021162.1	Ca_kabuli_chr03	30898282	GG	AA	1946778078
SNP_P4_33595_30904753	NC_021162.1	Ca_kabuli_chr03	30904753	TT	CC	1946778080
SNP_P4_33596_30911006	NC_021162.1	Ca_kabuli_chr03	30911006	AA	GG	1946778082
SNP_P4_33597_30914138	NC_021162.1	Ca_kabuli_chr03	30914138	CC	AA	1946778084
SNP_P4_33598_30914139	NC_021162.1	Ca_kabuli_chr03	30914139	CC	AA	1946778088
SNP_P4_33600_30930645	NC_021162.1	Ca_kabuli_chr03	30930645	TT	CC	1946778090
SNP_P4_33601_30930912	NC_021162.1	Ca_kabuli_chr03	30930912	GG	AA	1946778092
SNP_P4_33604_30941677	NC_021162.1	Ca_kabuli_chr03	30941677	GG	AA	1946778095
SNP_P4_33605_30941679	NC_021162.1	Ca_kabuli_chr03	30941679	AA	CC	1946778097
SNP_P4_33607_30953574	NC_021162.1	Ca_kabuli_chr03	30953574	TT	GG	1946778099
SNP_P4_33608_31001745	NC_021162.1	Ca_kabuli_chr03	31001745	CC	TT	1946778101
SNP_P4_33609_31008715	NC_021162.1	Ca_kabuli_chr03	31008715	TT	AA	1946778103

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_33611_31025237	NC_021162.1	Ca_kabuli_chr03	31025237	TT	AA	1946778108
SNP_P4_33612_31025240	NC_021162.1	Ca_kabuli_chr03	31025240	TT	CC	1946778111
SNP_P4_33614_31027358	NC_021162.1	Ca_kabuli_chr03	31027358	AA	CC	1946778114
SNP_P4_33615_31029006	NC_021162.1	Ca_kabuli_chr03	31029006	AA	TT	1946778116
SNP_P4_33617_31067424	NC_021162.1	Ca_kabuli_chr03	31067424	GG	AA	1946778119
SNP_P4_33620_31165509	NC_021162.1	Ca_kabuli_chr03	31165509	TT	AA	1946778121
SNP_P4_33622_31199054	NC_021162.1	Ca_kabuli_chr03	31199054	TT	CC	1946778123
SNP_P4_33625_31214385	NC_021162.1	Ca_kabuli_chr03	31214385	GG	AA	1946778125
SNP_P4_33626_31232521	NC_021162.1	Ca_kabuli_chr03	31232521	GG	AA	1946778128
SNP_P4_33627_31249948	NC_021162.1	Ca_kabuli_chr03	31249948	CC	AA	1946778130
SNP_P4_33629_31253697	NC_021162.1	Ca_kabuli_chr03	31253697	CC	TT	1946778132
SNP_P4_33630_31255493	NC_021162.1	Ca_kabuli_chr03	31255493	GG	TT	1946778134
SNP_P4_33631_31263216	NC_021162.1	Ca_kabuli_chr03	31263216	AA	GG	1946778136
SNP_P4_33633_31263534	NC_021162.1	Ca_kabuli_chr03	31263534	TT	CC	1946778139
SNP_P4_33634_31263892	NC_021162.1	Ca_kabuli_chr03	31263892	GG	AA	1946778141
SNP_P4_33636_31264365	NC_021162.1	Ca_kabuli_chr03	31264365	TT	CC	1946778143
SNP_P4_33637_31264695	NC_021162.1	Ca_kabuli_chr03	31264695	AA	TT	1946778145
SNP_P4_33638_31264735	NC_021162.1	Ca_kabuli_chr03	31264735	GG	AA	1946778147
SNP_P4_33639_31264918	NC_021162.1	Ca_kabuli_chr03	31264918	AA	GG	1946778149
SNP_P4_33640_31265162	NC_021162.1	Ca_kabuli_chr03	31265162	AA	CC	1946778151
SNP_P4_33641_31265678	NC_021162.1	Ca_kabuli_chr03	31265678	AA	GG	1946778154
SNP_P4_33642_31265693	NC_021162.1	Ca_kabuli_chr03	31265693	AA	GG	1946778156
SNP_P4_33643_31265700	NC_021162.1	Ca_kabuli_chr03	31265700	AA	GG	1946778158
SNP_P4_33644_31265716	NC_021162.1	Ca_kabuli_chr03	31265716	CC	AA	1946778160
SNP_P4_33645_31265741	NC_021162.1	Ca_kabuli_chr03	31265741	GG	AA	1946778162
SNP_P4_33646_31265757	NC_021162.1	Ca_kabuli_chr03	31265757	CC	TT	1946778164
SNP_P4_33647_31265786	NC_021162.1	Ca_kabuli_chr03	31265786	GG	AA	1946778167
SNP_P4_33648_31265789	NC_021162.1	Ca_kabuli_chr03	31265789	AA	GG	1946778169
SNP_P4_33650_31266959	NC_021162.1	Ca_kabuli_chr03	31266959	CC	AA	1946778172
SNP_P4_33651_31266963	NC_021162.1	Ca_kabuli_chr03	31266963	AA	GG	1946778174
SNP_P4_33652_31267137	NC_021162.1	Ca_kabuli_chr03	31267137	AA	GG	1946778176
SNP_P4_33653_31267241	NC_021162.1	Ca_kabuli_chr03	31267241	GG	AA	1946778178
SNP_P4_33654_31267251	NC_021162.1	Ca_kabuli_chr03	31267251	TT	AA	1946778180
SNP_P4_33655_31267257	NC_021162.1	Ca_kabuli_chr03	31267257	TT	CC	1946778182
SNP_P4_33656_31267348	NC_021162.1	Ca_kabuli_chr03	31267348	TT	AA	1946778184
SNP_P4_33657_31267361	NC_021162.1	Ca_kabuli_chr03	31267361	AA	GG	1946778186
SNP_P4_33658_31267477	NC_021162.1	Ca_kabuli_chr03	31267477	GG	AA	1946778188
SNP_P4_33659_31267675	NC_021162.1	Ca_kabuli_chr03	31267675	AA	GG	1946778190
SNP_P4_33660_31269034	NC_021162.1	Ca_kabuli_chr03	31269034	CC	AA	1946778192
SNP_P4_33661_31269640	NC_021162.1	Ca_kabuli_chr03	31269640	TT	GG	1946778195
SNP_P4_33662_31269867	NC_021162.1	Ca_kabuli_chr03	31269867	CC	AA	1946778197

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_33664_31270189	NC_021162.1	Ca_kabuli_chr03	31270189	TT	CC	1946778201
SNP_P4_33665_31270653	NC_021162.1	Ca_kabuli_chr03	31270653	GG	TT	1946778203
SNP_P4_33666_31270688	NC_021162.1	Ca_kabuli_chr03	31270688	AA	GG	1946778205
SNP_P4_33667_31270804	NC_021162.1	Ca_kabuli_chr03	31270804	AA	GG	1946778208
SNP_P4_33668_31271211	NC_021162.1	Ca_kabuli_chr03	31271211	TT	AA	1946778212
SNP_P4_33669_31272160	NC_021162.1	Ca_kabuli_chr03	31272160	CC	TT	1946778214
SNP_P4_33670_31272161	NC_021162.1	Ca_kabuli_chr03	31272161	AA	GG	1946778216
SNP_P4_33671_31272591	NC_021162.1	Ca_kabuli_chr03	31272591	GG	AA	1946778218
SNP_P4_33672_31272631	NC_021162.1	Ca_kabuli_chr03	31272631	TT	CC	1946778221
SNP_P4_33673_31273214	NC_021162.1	Ca_kabuli_chr03	31273214	AA	TT	1946778223
SNP_P4_33674_31273681	NC_021162.1	Ca_kabuli_chr03	31273681	TT	CC	1946778226
SNP_P4_33675_31273697	NC_021162.1	Ca_kabuli_chr03	31273697	GG	AA	1946778228
SNP_P4_33676_31273729	NC_021162.1	Ca_kabuli_chr03	31273729	GG	CC	1946778230
SNP_P4_33677_31273827	NC_021162.1	Ca_kabuli_chr03	31273827	CC	TT	1946778232
SNP_P4_33678_31273947	NC_021162.1	Ca_kabuli_chr03	31273947	TT	CC	1946778234
SNP_P4_33679_31274153	NC_021162.1	Ca_kabuli_chr03	31274153	TT	AA	1946778236
SNP_P4_33680_31274179	NC_021162.1	Ca_kabuli_chr03	31274179	CC	TT	1946778238
SNP_P4_33681_31274188	NC_021162.1	Ca_kabuli_chr03	31274188	TT	GG	1946778241
SNP_P4_33682_31280326	NC_021162.1	Ca_kabuli_chr03	31280326	AA	GG	1946778243
SNP_P4_33684_31280649	NC_021162.1	Ca_kabuli_chr03	31280649	CC	TT	1946778246
SNP_P4_33685_31280834	NC_021162.1	Ca_kabuli_chr03	31280834	TT	AA	1946778248
SNP_P4_33686_31282372	NC_021162.1	Ca_kabuli_chr03	31282372	GG	TT	1946778250
SNP_P4_33687_31282389	NC_021162.1	Ca_kabuli_chr03	31282389	CC	TT	1946778252
SNP_P4_33688_31283794	NC_021162.1	Ca_kabuli_chr03	31283794	AA	GG	1946778255
SNP_P4_33689_31283899	NC_021162.1	Ca_kabuli_chr03	31283899	TT	GG	1946778257
SNP_P4_33690_31284694	NC_021162.1	Ca_kabuli_chr03	31284694	TT	CC	1946778259
SNP_P4_33691_31285114	NC_021162.1	Ca_kabuli_chr03	31285114	TT	CC	1946778263
SNP_P4_33692_31286175	NC_021162.1	Ca_kabuli_chr03	31286175	AA	TT	1946778265
SNP_P4_33693_31286462	NC_021162.1	Ca_kabuli_chr03	31286462	GG	TT	1946778267
SNP_P4_33694_31286979	NC_021162.1	Ca_kabuli_chr03	31286979	AA	GG	1946778269
SNP_P4_33695_31287043	NC_021162.1	Ca_kabuli_chr03	31287043	GG	AA	1946778271
SNP_P4_33696_31287257	NC_021162.1	Ca_kabuli_chr03	31287257	TT	CC	1946778273
SNP_P4_33697_31289218	NC_021162.1	Ca_kabuli_chr03	31289218	CC	GG	1946778275
SNP_P4_33698_31289700	NC_021162.1	Ca_kabuli_chr03	31289700	TT	AA	1946778278
SNP_P4_33699_31289701	NC_021162.1	Ca_kabuli_chr03	31289701	CC	AA	1946778281
SNP_P4_33700_31289786	NC_021162.1	Ca_kabuli_chr03	31289786	AA	CC	1946778283
SNP_P4_33701_31289809	NC_021162.1	Ca_kabuli_chr03	31289809	CC	TT	1946778285
SNP_P4_33702_31290054	NC_021162.1	Ca_kabuli_chr03	31290054	GG	AA	1946778287
SNP_P4_33703_31290289	NC_021162.1	Ca_kabuli_chr03	31290289	CC	TT	1946778290
SNP_P4_33705_31290422	NC_021162.1	Ca_kabuli_chr03	31290422	CC	TT	1946778292
SNP_P4_33707_31291245	NC_021162.1	Ca_kabuli_chr03	31291245	AA	GG	1946778294

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_33710_31291883	NC_021162.1	Ca_kabuli_chr03	31291883	AA	GG	1946778298
SNP_P4_33711_31291923	NC_021162.1	Ca_kabuli_chr03	31291923	TT	GG	1946778301
SNP_P4_33712_31292114	NC_021162.1	Ca_kabuli_chr03	31292114	TT	AA	1946778303
SNP_P4_33713_31292203	NC_021162.1	Ca_kabuli_chr03	31292203	AA	GG	1946778305
SNP_P4_33714_31292417	NC_021162.1	Ca_kabuli_chr03	31292417	TT	CC	1946778307
SNP_P4_33715_31292445	NC_021162.1	Ca_kabuli_chr03	31292445	AA	GG	1946778309
SNP_P4_33717_31292549	NC_021162.1	Ca_kabuli_chr03	31292549	AA	GG	1946778311
SNP_P4_33718_31292811	NC_021162.1	Ca_kabuli_chr03	31292811	GG	TT	1946778313
SNP_P4_33719_31292819	NC_021162.1	Ca_kabuli_chr03	31292819	CC	TT	1946778316
SNP_P4_33720_31292953	NC_021162.1	Ca_kabuli_chr03	31292953	GG	AA	1946778318
SNP_P4_33721_31292966	NC_021162.1	Ca_kabuli_chr03	31292966	TT	GG	1946778320
SNP_P4_33722_31293230	NC_021162.1	Ca_kabuli_chr03	31293230	CC	TT	1946778322
SNP_P4_33723_31293245	NC_021162.1	Ca_kabuli_chr03	31293245	CC	TT	1946778324
SNP_P4_33724_31293257	NC_021162.1	Ca_kabuli_chr03	31293257	CC	TT	1946778326
SNP_P4_33725_31293260	NC_021162.1	Ca_kabuli_chr03	31293260	AA	GG	1946778328
SNP_P4_33726_31293439	NC_021162.1	Ca_kabuli_chr03	31293439	TT	GG	1946778332
SNP_P4_33727_31293451	NC_021162.1	Ca_kabuli_chr03	31293451	GG	TT	1946778334
SNP_P4_33729_31293463	NC_021162.1	Ca_kabuli_chr03	31293463	AA	GG	1946778336
SNP_P4_33731_31293587	NC_021162.1	Ca_kabuli_chr03	31293587	CC	TT	1946778338
SNP_P4_33733_31294253	NC_021162.1	Ca_kabuli_chr03	31294253	GG	TT	1946778340
SNP_P4_33734_31294278	NC_021162.1	Ca_kabuli_chr03	31294278	TT	CC	1946778342
SNP_P4_33735_31294283	NC_021162.1	Ca_kabuli_chr03	31294283	AA	GG	1946778344
SNP_P4_33736_31294456	NC_021162.1	Ca_kabuli_chr03	31294456	GG	AA	1946778346
SNP_P4_33738_31294721	NC_021162.1	Ca_kabuli_chr03	31294721	GG	AA	1946778348
SNP_P4_33739_31294749	NC_021162.1	Ca_kabuli_chr03	31294749	GG	TT	1946778350
SNP_P4_33740_31294832	NC_021162.1	Ca_kabuli_chr03	31294832	AA	CC	1946778352
SNP_P4_33741_31294928	NC_021162.1	Ca_kabuli_chr03	31294928	TT	CC	1946778355
SNP_P4_33742_31294932	NC_021162.1	Ca_kabuli_chr03	31294932	AA	TT	1946778357
SNP_P4_33743_31294938	NC_021162.1	Ca_kabuli_chr03	31294938	CC	TT	1946778359
SNP_P4_33744_31294950	NC_021162.1	Ca_kabuli_chr03	31294950	TT	CC	1946778361
SNP_P4_33745_31295977	NC_021162.1	Ca_kabuli_chr03	31295977	TT	AA	1946778363
SNP_P4_33746_31296051	NC_021162.1	Ca_kabuli_chr03	31296051	CC	TT	1946778365
SNP_P4_33747_31296076	NC_021162.1	Ca_kabuli_chr03	31296076	TT	GG	1946778367
SNP_P4_33748_31296272	NC_021162.1	Ca_kabuli_chr03	31296272	AA	GG	1946778369
SNP_P4_33749_31296426	NC_021162.1	Ca_kabuli_chr03	31296426	TT	CC	1946778372
SNP_P4_33750_31296677	NC_021162.1	Ca_kabuli_chr03	31296677	AA	GG	1946778374
SNP_P4_33751_31296746	NC_021162.1	Ca_kabuli_chr03	31296746	TT	CC	1946778376
SNP_P4_33752_31296779	NC_021162.1	Ca_kabuli_chr03	31296779	TT	CC	1946778378
SNP_P4_33753_31296948	NC_021162.1	Ca_kabuli_chr03	31296948	GG	CC	1946778380
SNP_P4_33754_31296954	NC_021162.1	Ca_kabuli_chr03	31296954	GG	AA	1946778382
SNP_P4_33755_31296983	NC_021162.1	Ca_kabuli_chr03	31296983	GG	AA	1946778384

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_33757_31297631	NC_021162.1	Ca_kabuli_chr03	31297631	GG	AA	1946778389
SNP_P4_33758_31297636	NC_021162.1	Ca_kabuli_chr03	31297636	CC	GG	1946778391
SNP_P4_33760_31298335	NC_021162.1	Ca_kabuli_chr03	31298335	CC	TT	1946778393
SNP_P4_33761_31298521	NC_021162.1	Ca_kabuli_chr03	31298521	TT	CC	1946778395
SNP_P4_33762_31299284	NC_021162.1	Ca_kabuli_chr03	31299284	CC	AA	1946778398
SNP_P4_33763_31299285	NC_021162.1	Ca_kabuli_chr03	31299285	CC	GG	1946778400
SNP_P4_33764_31299995	NC_021162.1	Ca_kabuli_chr03	31299995	AA	GG	1946778402
SNP_P4_33765_31300022	NC_021162.1	Ca_kabuli_chr03	31300022	TT	GG	1946778403
SNP_P4_33766_31300027	NC_021162.1	Ca_kabuli_chr03	31300027	CC	TT	1946778406
SNP_P4_33767_31302329	NC_021162.1	Ca_kabuli_chr03	31302329	TT	AA	1946778408
SNP_P4_33768_31302625	NC_021162.1	Ca_kabuli_chr03	31302625	CC	TT	1946778410
SNP_P4_33769_31302712	NC_021162.1	Ca_kabuli_chr03	31302712	CC	TT	1946778412
SNP_P4_33770_31303607	NC_021162.1	Ca_kabuli_chr03	31303607	AA	CC	1946778414
SNP_P4_33771_31303618	NC_021162.1	Ca_kabuli_chr03	31303618	TT	CC	1946778416
SNP_P4_33773_31306317	NC_021162.1	Ca_kabuli_chr03	31306317	AA	TT	1946778418
SNP_P4_33774_31306860	NC_021162.1	Ca_kabuli_chr03	31306860	GG	TT	1946778420
SNP_P4_33775_31306865	NC_021162.1	Ca_kabuli_chr03	31306865	CC	GG	1946778422
SNP_P4_33776_31306923	NC_021162.1	Ca_kabuli_chr03	31306923	TT	AA	1946778424
SNP_P4_33777_31306951	NC_021162.1	Ca_kabuli_chr03	31306951	AA	CC	1946778427
SNP_P4_33778_31307381	NC_021162.1	Ca_kabuli_chr03	31307381	AA	TT	1946778429
SNP_P4_33779_31310453	NC_021162.1	Ca_kabuli_chr03	31310453	CC	AA	1946778431
SNP_P4_33780_31310504	NC_021162.1	Ca_kabuli_chr03	31310504	CC	TT	1946778434
SNP_P4_33781_31313906	NC_021162.1	Ca_kabuli_chr03	31313906	TT	CC	1946778437
SNP_P4_33782_31313914	NC_021162.1	Ca_kabuli_chr03	31313914	TT	CC	1946778439
SNP_P4_33783_31315015	NC_021162.1	Ca_kabuli_chr03	31315015	GG	TT	1946778441
SNP_P4_33784_31315087	NC_021162.1	Ca_kabuli_chr03	31315087	TT	AA	1946778445
SNP_P4_33785_31315297	NC_021162.1	Ca_kabuli_chr03	31315297	CC	GG	1946778447
SNP_P4_33786_31315313	NC_021162.1	Ca_kabuli_chr03	31315313	CC	TT	1946778449
SNP_P4_33787_31320605	NC_021162.1	Ca_kabuli_chr03	31320605	TT	CC	1946778451
SNP_P4_33788_31320639	NC_021162.1	Ca_kabuli_chr03	31320639	GG	TT	1946778453
SNP_P4_33789_31321077	NC_021162.1	Ca_kabuli_chr03	31321077	TT	GG	1946778455
SNP_P4_33790_31321540	NC_021162.1	Ca_kabuli_chr03	31321540	AA	GG	1946778457
SNP_P4_33791_31321877	NC_021162.1	Ca_kabuli_chr03	31321877	GG	AA	1946778459
SNP_P4_33793_31322858	NC_021162.1	Ca_kabuli_chr03	31322858	CC	TT	1946778461
SNP_P4_33794_31322900	NC_021162.1	Ca_kabuli_chr03	31322900	AA	TT	1946778463
SNP_P4_33795_31322921	NC_021162.1	Ca_kabuli_chr03	31322921	CC	TT	1946778466
SNP_P4_33796_31322962	NC_021162.1	Ca_kabuli_chr03	31322962	AA	TT	1946778468
SNP_P4_33797_31322967	NC_021162.1	Ca_kabuli_chr03	31322967	CC	TT	1946778470
SNP_P4_33800_31323305	NC_021162.1	Ca_kabuli_chr03	31323305	TT	AA	1946778472
SNP_P4_33801_31323310	NC_021162.1	Ca_kabuli_chr03	31323310	GG	CC	1946778474
SNP_P4_33802_31323364	NC_021162.1	Ca_kabuli_chr03	31323364	AA	GG	1946778477

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_33804_31323446	NC_021162.1	Ca_kabuli_chr03	31323446	TT	AA	1946778481
SNP_P4_33805_31323608	NC_021162.1	Ca_kabuli_chr03	31323608	TT	CC	1946778483
SNP_P4_33806_31323685	NC_021162.1	Ca_kabuli_chr03	31323685	TT	AA	1946778485
SNP_P4_33810_31327588	NC_021162.1	Ca_kabuli_chr03	31327588	AA	GG	1946778487
SNP_P4_33811_31328393	NC_021162.1	Ca_kabuli_chr03	31328393	GG	AA	1946778489
SNP_P4_33812_31328805	NC_021162.1	Ca_kabuli_chr03	31328805	GG	AA	1946778491
SNP_P4_33813_31330293	NC_021162.1	Ca_kabuli_chr03	31330293	TT	CC	1946778493
SNP_P4_33814_31330308	NC_021162.1	Ca_kabuli_chr03	31330308	CC	TT	1946778495
SNP_P4_33815_31330311	NC_021162.1	Ca_kabuli_chr03	31330311	AA	CC	1946778497
SNP_P4_33816_31330913	NC_021162.1	Ca_kabuli_chr03	31330913	TT	GG	1946778499
SNP_P4_33817_31330953	NC_021162.1	Ca_kabuli_chr03	31330953	AA	TT	1946778501
SNP_P4_33818_31331318	NC_021162.1	Ca_kabuli_chr03	31331318	TT	AA	1946778503
SNP_P4_33819_31333461	NC_021162.1	Ca_kabuli_chr03	31333461	CC	TT	1946778505
SNP_P4_33820_31333735	NC_021162.1	Ca_kabuli_chr03	31333735	GG	TT	1946778507
SNP_P4_33821_31333747	NC_021162.1	Ca_kabuli_chr03	31333747	GG	AA	1946778511
SNP_P4_33822_31333780	NC_021162.1	Ca_kabuli_chr03	31333780	GG	AA	1946778513
SNP_P4_33823_31334180	NC_021162.1	Ca_kabuli_chr03	31334180	AA	GG	1946778515
SNP_P4_33824_31335345	NC_021162.1	Ca_kabuli_chr03	31335345	CC	AA	1946778517
SNP_P4_33825_31335417	NC_021162.1	Ca_kabuli_chr03	31335417	GG	AA	1946778519
SNP_P4_33826_31336040	NC_021162.1	Ca_kabuli_chr03	31336040	CC	TT	1946778521
SNP_P4_33827_31336115	NC_021162.1	Ca_kabuli_chr03	31336115	TT	AA	1946778523
SNP_P4_33829_31336940	NC_021162.1	Ca_kabuli_chr03	31336940	AA	TT	1946778525
SNP_P4_33830_31336986	NC_021162.1	Ca_kabuli_chr03	31336986	CC	AA	1946778527
SNP_P4_33831_31337633	NC_021162.1	Ca_kabuli_chr03	31337633	GG	CC	1946778529
SNP_P4_33832_31337681	NC_021162.1	Ca_kabuli_chr03	31337681	AA	GG	1946778531
SNP_P4_33833_31337952	NC_021162.1	Ca_kabuli_chr03	31337952	AA	GG	1946778533
SNP_P4_33835_31338641	NC_021162.1	Ca_kabuli_chr03	31338641	CC	TT	1946778535
SNP_P4_33836_31338780	NC_021162.1	Ca_kabuli_chr03	31338780	CC	GG	1946778537
SNP_P4_33837_31339155	NC_021162.1	Ca_kabuli_chr03	31339155	AA	GG	1946778539
SNP_P4_33839_31339276	NC_021162.1	Ca_kabuli_chr03	31339276	TT	CC	1946778541
SNP_P4_33840_31339375	NC_021162.1	Ca_kabuli_chr03	31339375	AA	TT	1946778543
SNP_P4_33841_31339388	NC_021162.1	Ca_kabuli_chr03	31339388	TT	GG	1946778545
SNP_P4_33842_31339569	NC_021162.1	Ca_kabuli_chr03	31339569	CC	TT	1946778547
SNP_P4_33843_31339616	NC_021162.1	Ca_kabuli_chr03	31339616	CC	TT	1946778549
SNP_P4_33844_31339644	NC_021162.1	Ca_kabuli_chr03	31339644	AA	TT	1946778551
SNP_P4_33846_31339698	NC_021162.1	Ca_kabuli_chr03	31339698	GG	AA	1946778553
SNP_P4_33847_31339739	NC_021162.1	Ca_kabuli_chr03	31339739	AA	TT	1946778555
SNP_P4_33848_31339777	NC_021162.1	Ca_kabuli_chr03	31339777	AA	GG	1946778557
SNP_P4_33849_31339788	NC_021162.1	Ca_kabuli_chr03	31339788	GG	TT	1946778559
SNP_P4_33850_31339821	NC_021162.1	Ca_kabuli_chr03	31339821	CC	AA	1946778562
SNP_P4_33851_31339824	NC_021162.1	Ca_kabuli_chr03	31339824	AA	GG	1946778564

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_33855_31343571	NC_021162.1	Ca_kabuli_chr03	31343571	TT	CC	1946778570
SNP_P4_33856_31343824	NC_021162.1	Ca_kabuli_chr03	31343824	TT	CC	1946778572
SNP_P4_33857_31344013	NC_021162.1	Ca_kabuli_chr03	31344013	TT	CC	1946778574
SNP_P4_33859_31344624	NC_021162.1	Ca_kabuli_chr03	31344624	CC	TT	1946778577
SNP_P4_33860_31344961	NC_021162.1	Ca_kabuli_chr03	31344961	GG	TT	1946778579
SNP_P4_33862_31345588	NC_021162.1	Ca_kabuli_chr03	31345588	GG	TT	1946778581
SNP_P4_33863_31346106	NC_021162.1	Ca_kabuli_chr03	31346106	CC	TT	1946778583
SNP_P4_33864_31347200	NC_021162.1	Ca_kabuli_chr03	31347200	TT	GG	1946778585
SNP_P4_33865_31347748	NC_021162.1	Ca_kabuli_chr03	31347748	AA	GG	1946778587
SNP_P4_33866_31347752	NC_021162.1	Ca_kabuli_chr03	31347752	GG	CC	1946778589
SNP_P4_33867_31347759	NC_021162.1	Ca_kabuli_chr03	31347759	AA	CC	1946778592
SNP_P4_33868_31347946	NC_021162.1	Ca_kabuli_chr03	31347946	AA	GG	1946778594
SNP_P4_33869_31347960	NC_021162.1	Ca_kabuli_chr03	31347960	TT	AA	1946778596
SNP_P4_33870_31347964	NC_021162.1	Ca_kabuli_chr03	31347964	TT	AA	1946778598
SNP_P4_33871_31347965	NC_021162.1	Ca_kabuli_chr03	31347965	TT	CC	1946778600
SNP_P4_33873_31348150	NC_021162.1	Ca_kabuli_chr03	31348150	TT	AA	1946778602
SNP_P4_33874_31348304	NC_021162.1	Ca_kabuli_chr03	31348304	GG	TT	1946778604
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SNP_P4_33876_31348439	NC_021162.1	Ca_kabuli_chr03	31348439	CC	TT	1946778608
SNP_P4_33877_31348442	NC_021162.1	Ca_kabuli_chr03	31348442	CC	AA	1946778611
SNP_P4_33878_31348546	NC_021162.1	Ca_kabuli_chr03	31348546	AA	GG	1946778613
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SNP_P4_33880_31348574	NC_021162.1	Ca_kabuli_chr03	31348574	GG	AA	1946778617
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SNP_P4_33882_31348817	NC_021162.1	Ca_kabuli_chr03	31348817	AA	CC	1946778621
SNP_P4_33883_31348829	NC_021162.1	Ca_kabuli_chr03	31348829	TT	CC	1946778623
SNP_P4_33884_31350194	NC_021162.1	Ca_kabuli_chr03	31350194	GG	AA	1946778625
SNP_P4_33885_31350635	NC_021162.1	Ca_kabuli_chr03	31350635	CC	TT	1946778627
SNP_P4_33887_31351481	NC_021162.1	Ca_kabuli_chr03	31351481	AA	GG	1946778629
SNP_P4_33888_31351501	NC_021162.1	Ca_kabuli_chr03	31351501	TT	CC	1946778631
SNP_P4_33889_31352927	NC_021162.1	Ca_kabuli_chr03	31352927	GG	TT	1946778634
SNP_P4_33890_31353425	NC_021162.1	Ca_kabuli_chr03	31353425	AA	TT	1946778636
SNP_P4_33891_31353463	NC_021162.1	Ca_kabuli_chr03	31353463	AA	GG	1946778638
SNP_P4_33892_31354627	NC_021162.1	Ca_kabuli_chr03	31354627	GG	CC	1946778640
SNP_P4_33893_31355246	NC_021162.1	Ca_kabuli_chr03	31355246	CC	TT	1946778642
SNP_P4_33894_31356233	NC_021162.1	Ca_kabuli_chr03	31356233	AA	GG	1946778644
SNP_P4_33895_31356423	NC_021162.1	Ca_kabuli_chr03	31356423	TT	GG	1946778646
SNP_P4_33897_31357212	NC_021162.1	Ca_kabuli_chr03	31357212	GG	AA	1946778648
SNP_P4_33898_31359013	NC_021162.1	Ca_kabuli_chr03	31359013	CC	TT	1946778650
SNP_P4_33899_31359077	NC_021162.1	Ca_kabuli_chr03	31359077	AA	CC	1946778652

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_33902_31359315	NC_021162.1	Ca_kabuli_chr03	31359315	GG	AA	1946778659
SNP_P4_33905_31366700	NC_021162.1	Ca_kabuli_chr03	31366700	AA	GG	1946778661
SNP_P4_33906_31366896	NC_021162.1	Ca_kabuli_chr03	31366896	CC	TT	1946778663
SNP_P4_33907_31366985	NC_021162.1	Ca_kabuli_chr03	31366985	CC	AA	1946778665
SNP_P4_33908_31367026	NC_021162.1	Ca_kabuli_chr03	31367026	TT	CC	1946778667
SNP_P4_33909_31367108	NC_021162.1	Ca_kabuli_chr03	31367108	TT	GG	1946778669
SNP_P4_33910_31367676	NC_021162.1	Ca_kabuli_chr03	31367676	TT	GG	1946778671
SNP_P4_33911_31367678	NC_021162.1	Ca_kabuli_chr03	31367678	AA	TT	1946778673
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SNP_P4_33915_31371009	NC_021162.1	Ca_kabuli_chr03	31371009	CC	TT	1946778679
SNP_P4_33916_31371021	NC_021162.1	Ca_kabuli_chr03	31371021	CC	TT	1946778681
SNP_P4_33917_31371051	NC_021162.1	Ca_kabuli_chr03	31371051	AA	CC	1946778683
SNP_P4_33918_31371067	NC_021162.1	Ca_kabuli_chr03	31371067	TT	GG	1946778685
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SNP_P4_33920_31371288	NC_021162.1	Ca_kabuli_chr03	31371288	TT	AA	1946778689
SNP_P4_33921_31371541	NC_021162.1	Ca_kabuli_chr03	31371541	CC	TT	1946778691
SNP_P4_33922_31371558	NC_021162.1	Ca_kabuli_chr03	31371558	TT	CC	1946778693
SNP_P4_33923_31372670	NC_021162.1	Ca_kabuli_chr03	31372670	TT	CC	1946778695
SNP_P4_33924_31373939	NC_021162.1	Ca_kabuli_chr03	31373939	AA	TT	1946778697
SNP_P4_33925_31374279	NC_021162.1	Ca_kabuli_chr03	31374279	CC	GG	1946778699
SNP_P4_33926_31374607	NC_021162.1	Ca_kabuli_chr03	31374607	GG	AA	1946778701
SNP_P4_33927_31375813	NC_021162.1	Ca_kabuli_chr03	31375813	AA	TT	1946778704
SNP_P4_33929_31377101	NC_021162.1	Ca_kabuli_chr03	31377101	AA	CC	1946778706
SNP_P4_33930_31377193	NC_021162.1	Ca_kabuli_chr03	31377193	AA	CC	1946778709
SNP_P4_33931_31377194	NC_021162.1	Ca_kabuli_chr03	31377194	GG	AA	1946778711
SNP_P4_33932_31377321	NC_021162.1	Ca_kabuli_chr03	31377321	AA	GG	1946778713
SNP_P4_33933_31378716	NC_021162.1	Ca_kabuli_chr03	31378716	AA	TT	1946778715
SNP_P4_33934_31379793	NC_021162.1	Ca_kabuli_chr03	31379793	CC	AA	1946778717
SNP_P4_33935_31379795	NC_021162.1	Ca_kabuli_chr03	31379795	TT	CC	1946778719
SNP_P4_33936_31380171	NC_021162.1	Ca_kabuli_chr03	31380171	TT	CC	1946778721
SNP_P4_33937_31381767	NC_021162.1	Ca_kabuli_chr03	31381767	TT	CC	1946778723
SNP_P4_33938_31381787	NC_021162.1	Ca_kabuli_chr03	31381787	AA	GG	1946778725
SNP_P4_33939_31381806	NC_021162.1	Ca_kabuli_chr03	31381806	AA	CC	1946778727
SNP_P4_33940_31381820	NC_021162.1	Ca_kabuli_chr03	31381820	TT	CC	1946778729
SNP_P4_33941_31382642	NC_021162.1	Ca_kabuli_chr03	31382642	GG	CC	1946778731
SNP_P4_33942_31383699	NC_021162.1	Ca_kabuli_chr03	31383699	GG	CC	1946778733
SNP_P4_33943_31383769	NC_021162.1	Ca_kabuli_chr03	31383769	GG	CC	1946778735
SNP_P4_33944_31384688	NC_021162.1	Ca_kabuli_chr03	31384688	CC	TT	1946778737
SNP_P4_33945_31384989	NC_021162.1	Ca_kabuli_chr03	31384989	TT	CC	1946778739

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_33946_31385165	NC_021162.1	Ca_kabuli_chr03	31385165	GG	AA	1946778742
SNP_P4_33947_31385188	NC_021162.1	Ca_kabuli_chr03	31385188	CC	TT	1946778744
SNP_P4_33948_31385235	NC_021162.1	Ca_kabuli_chr03	31385235	AA	GG	1946778746
SNP_P4_33949_31388885	NC_021162.1	Ca_kabuli_chr03	31388885	TT	AA	1946778748
SNP_P4_33951_31391834	NC_021162.1	Ca_kabuli_chr03	31391834	GG	AA	1946778750
SNP_P4_33952_31392024	NC_021162.1	Ca_kabuli_chr03	31392024	CC	TT	1946778752
SNP_P4_33953_31392049	NC_021162.1	Ca_kabuli_chr03	31392049	AA	GG	1946778755
SNP_P4_33954_31392150	NC_021162.1	Ca_kabuli_chr03	31392150	GG	AA	1946778757
SNP_P4_33955_31392164	NC_021162.1	Ca_kabuli_chr03	31392164	AA	GG	1946778759
SNP_P4_33956_31392166	NC_021162.1	Ca_kabuli_chr03	31392166	AA	GG	1946778761
SNP_P4_33957_31392182	NC_021162.1	Ca_kabuli_chr03	31392182	CC	TT	1946778763
SNP_P4_33958_31392186	NC_021162.1	Ca_kabuli_chr03	31392186	AA	GG	1946778765
SNP_P4_33960_31392225	NC_021162.1	Ca_kabuli_chr03	31392225	GG	AA	1946778767
SNP_P4_33961_31392374	NC_021162.1	Ca_kabuli_chr03	31392374	AA	TT	1946778769
SNP_P4_33962_31392462	NC_021162.1	Ca_kabuli_chr03	31392462	GG	AA	1946778771
SNP_P4_33963_31392473	NC_021162.1	Ca_kabuli_chr03	31392473	AA	GG	1946778773
SNP_P4_33965_31393160	NC_021162.1	Ca_kabuli_chr03	31393160	CC	TT	1946778775
SNP_P4_33966_31393913	NC_021162.1	Ca_kabuli_chr03	31393913	TT	GG	1946778777
SNP_P4_33967_31393950	NC_021162.1	Ca_kabuli_chr03	31393950	CC	GG	1946778779
SNP_P4_33968_31393959	NC_021162.1	Ca_kabuli_chr03	31393959	CC	TT	1946778781
SNP_P4_33969_31394165	NC_021162.1	Ca_kabuli_chr03	31394165	AA	CC	1946778783
SNP_P4_33970_31394175	NC_021162.1	Ca_kabuli_chr03	31394175	GG	TT	1946778786
SNP_P4_33971_31394201	NC_021162.1	Ca_kabuli_chr03	31394201	CC	TT	1946778788
SNP_P4_33972_31394210	NC_021162.1	Ca_kabuli_chr03	31394210	TT	AA	1946778790
SNP_P4_33973_31394568	NC_021162.1	Ca_kabuli_chr03	31394568	AA	GG	1946778792
SNP_P4_33974_31394580	NC_021162.1	Ca_kabuli_chr03	31394580	GG	AA	1946778794
SNP_P4_33975_31395344	NC_021162.1	Ca_kabuli_chr03	31395344	TT	GG	1946778796
SNP_P4_33976_31395817	NC_021162.1	Ca_kabuli_chr03	31395817	GG	TT	1946778798
SNP_P4_33977_31396174	NC_021162.1	Ca_kabuli_chr03	31396174	CC	TT	1946778800
SNP_P4_33978_31396560	NC_021162.1	Ca_kabuli_chr03	31396560	TT	CC	1946778802
SNP_P4_33979_31396604	NC_021162.1	Ca_kabuli_chr03	31396604	CC	TT	1946778804
SNP_P4_33980_31396715	NC_021162.1	Ca_kabuli_chr03	31396715	TT	GG	1946778806
SNP_P4_33981_31396724	NC_021162.1	Ca_kabuli_chr03	31396724	GG	AA	1946778809
SNP_P4_33982_31396729	NC_021162.1	Ca_kabuli_chr03	31396729	GG	TT	1946778811
SNP_P4_33983_31396744	NC_021162.1	Ca_kabuli_chr03	31396744	CC	GG	1946778813
SNP_P4_33984_31399520	NC_021162.1	Ca_kabuli_chr03	31399520	AA	TT	1946778815
SNP_P4_33985_31399710	NC_021162.1	Ca_kabuli_chr03	31399710	CC	AA	1946778817
SNP_P4_33988_31406964	NC_021162.1	Ca_kabuli_chr03	31406964	CC	GG	1946778819
SNP_P4_33989_31411180	NC_021162.1	Ca_kabuli_chr03	31411180	TT	CC	1946778821
SNP_P4_33990_31411220	NC_021162.1	Ca_kabuli_chr03	31411220	GG	AA	1946778824
SNP_P4_33991_31411283	NC_021162.1	Ca_kabuli_chr03	31411283	GG	AA	1946778826
SNP_P4_33992_31411435	NC_021162.1	Ca_kabuli_chr03	31411435	CC	AA	1946778828

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_33994_31411534	NC_021162.1	Ca_kabuli_chr03	31411534	AA	TT	1946778832
SNP_P4_33995_31411638	NC_021162.1	Ca_kabuli_chr03	31411638	AA	CC	1946778834
SNP_P4_33996_31411720	NC_021162.1	Ca_kabuli_chr03	31411720	AA	GG	1946778836
SNP_P4_33997_31412062	NC_021162.1	Ca_kabuli_chr03	31412062	AA	CC	1946778838
SNP_P4_33999_31413589	NC_021162.1	Ca_kabuli_chr03	31413589	GG	TT	1946778840
SNP_P4_34000_31414536	NC_021162.1	Ca_kabuli_chr03	31414536	TT	AA	1946778842
SNP_P4_34002_31415969	NC_021162.1	Ca_kabuli_chr03	31415969	AA	GG	1946778844
SNP_P4_34003_31416058	NC_021162.1	Ca_kabuli_chr03	31416058	GG	AA	1946778846
SNP_P4_34004_31416395	NC_021162.1	Ca_kabuli_chr03	31416395	CC	TT	1946778848
SNP_P4_34005_31416636	NC_021162.1	Ca_kabuli_chr03	31416636	GG	AA	1946778851
SNP_P4_34006_31416642	NC_021162.1	Ca_kabuli_chr03	31416642	CC	TT	1946778853
SNP_P4_34007_31416849	NC_021162.1	Ca_kabuli_chr03	31416849	CC	AA	1946778855
SNP_P4_34008_31417460	NC_021162.1	Ca_kabuli_chr03	31417460	CC	AA	1946778857
SNP_P4_34009_31418534	NC_021162.1	Ca_kabuli_chr03	31418534	TT	AA	1946778859
SNP_P4_34010_31419359	NC_021162.1	Ca_kabuli_chr03	31419359	TT	AA	1946778861
SNP_P4_34011_31419698	NC_021162.1	Ca_kabuli_chr03	31419698	TT	CC	1946778863
SNP_P4_34012_31421645	NC_021162.1	Ca_kabuli_chr03	31421645	GG	TT	1946778865
SNP_P4_34013_31425154	NC_021162.1	Ca_kabuli_chr03	31425154	CC	GG	1946778867
SNP_P4_34014_31425383	NC_021162.1	Ca_kabuli_chr03	31425383	AA	GG	1946778869
SNP_P4_34015_31426867	NC_021162.1	Ca_kabuli_chr03	31426867	AA	GG	1946778871
SNP_P4_34016_31431413	NC_021162.1	Ca_kabuli_chr03	31431413	CC	GG	1946778873
SNP_P4_34017_31439756	NC_021162.1	Ca_kabuli_chr03	31439756	AA	CC	1946778875
SNP_P4_34018_31441489	NC_021162.1	Ca_kabuli_chr03	31441489	GG	AA	1946778877
SNP_P4_34019_31441631	NC_021162.1	Ca_kabuli_chr03	31441631	GG	AA	1946778879
SNP_P4_34020_31441889	NC_021162.1	Ca_kabuli_chr03	31441889	AA	CC	1946778880
SNP_P4_34021_31441919	NC_021162.1	Ca_kabuli_chr03	31441919	AA	TT	1946778883
SNP_P4_34022_31441921	NC_021162.1	Ca_kabuli_chr03	31441921	CC	GG	1946778885
SNP_P4_34023_31442402	NC_021162.1	Ca_kabuli_chr03	31442402	AA	GG	1946778887
SNP_P4_34024_31443631	NC_021162.1	Ca_kabuli_chr03	31443631	CC	TT	1946778890
SNP_P4_34025_31443877	NC_021162.1	Ca_kabuli_chr03	31443877	CC	TT	1946778892
SNP_P4_34026_31445311	NC_021162.1	Ca_kabuli_chr03	31445311	GG	AA	1946778895
SNP_P4_34027_31445338	NC_021162.1	Ca_kabuli_chr03	31445338	AA	GG	1946778897
SNP_P4_34028_31446054	NC_021162.1	Ca_kabuli_chr03	31446054	TT	CC	1946778899
SNP_P4_34029_31446182	NC_021162.1	Ca_kabuli_chr03	31446182	CC	TT	1946778901
SNP_P4_34030_31447151	NC_021162.1	Ca_kabuli_chr03	31447151	GG	AA	1946778903
SNP_P4_34031_31447973	NC_021162.1	Ca_kabuli_chr03	31447973	TT	CC	1946778905
SNP_P4_34032_31447975	NC_021162.1	Ca_kabuli_chr03	31447975	GG	AA	1946778908
SNP_P4_34033_31448012	NC_021162.1	Ca_kabuli_chr03	31448012	TT	CC	1946778910
SNP_P4_34034_31448032	NC_021162.1	Ca_kabuli_chr03	31448032	TT	CC	1946778912
SNP_P4_34036_31448402	NC_021162.1	Ca_kabuli_chr03	31448402	AA	CC	1946778914
SNP_P4_34037_31448670	NC_021162.1	Ca_kabuli_chr03	31448670	TT	CC	1946778916

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_34040_31449352	NC_021162.1	Ca_kabuli_chr03	31449352	TT	CC	1946778920
SNP_P4_34041_31449377	NC_021162.1	Ca_kabuli_chr03	31449377	AA	GG	1946778922
SNP_P4_34042_31450187	NC_021162.1	Ca_kabuli_chr03	31450187	AA	CC	1946778924
SNP_P4_34043_31450250	NC_021162.1	Ca_kabuli_chr03	31450250	TT	CC	1946778925
SNP_P4_34044_31452000	NC_021162.1	Ca_kabuli_chr03	31452000	AA	CC	1946778927
SNP_P4_34045_31452772	NC_021162.1	Ca_kabuli_chr03	31452772	GG	AA	1946778929
SNP_P4_34046_31452781	NC_021162.1	Ca_kabuli_chr03	31452781	CC	TT	1946778931
SNP_P4_34047_31452966	NC_021162.1	Ca_kabuli_chr03	31452966	AA	GG	1946778933
SNP_P4_34048_31453024	NC_021162.1	Ca_kabuli_chr03	31453024	CC	AA	1946778935
SNP_P4_34049_31454191	NC_021162.1	Ca_kabuli_chr03	31454191	CC	TT	1946778937
SNP_P4_34050_31454283	NC_021162.1	Ca_kabuli_chr03	31454283	AA	GG	1946778939
SNP_P4_34051_31455281	NC_021162.1	Ca_kabuli_chr03	31455281	GG	AA	1946778941
SNP_P4_34052_31455806	NC_021162.1	Ca_kabuli_chr03	31455806	AA	CC	1946778943
SNP_P4_34053_31459384	NC_021162.1	Ca_kabuli_chr03	31459384	GG	AA	1946778945
SNP_P4_34054_31459478	NC_021162.1	Ca_kabuli_chr03	31459478	TT	CC	1946778947
SNP_P4_34055_31459598	NC_021162.1	Ca_kabuli_chr03	31459598	AA	GG	1946778949
SNP_P4_34056_31459648	NC_021162.1	Ca_kabuli_chr03	31459648	AA	GG	1946778951
SNP_P4_34057_31459772	NC_021162.1	Ca_kabuli_chr03	31459772	AA	TT	1946778952
SNP_P4_34058_31459777	NC_021162.1	Ca_kabuli_chr03	31459777	CC	TT	1946778953
SNP_P4_34059_31459801	NC_021162.1	Ca_kabuli_chr03	31459801	GG	AA	1946778954
SNP_P4_34060_31459884	NC_021162.1	Ca_kabuli_chr03	31459884	TT	CC	1946778955
SNP_P4_34061_31459902	NC_021162.1	Ca_kabuli_chr03	31459902	AA	GG	1946778956
SNP_P4_34062_31459907	NC_021162.1	Ca_kabuli_chr03	31459907	TT	CC	1946778958
SNP_P4_34063_31460173	NC_021162.1	Ca_kabuli_chr03	31460173	AA	CC	1946778960
SNP_P4_34064_31461015	NC_021162.1	Ca_kabuli_chr03	31461015	AA	GG	1946778962
SNP_P4_34065_31462816	NC_021162.1	Ca_kabuli_chr03	31462816	GG	CC	1946778964
SNP_P4_34066_31462860	NC_021162.1	Ca_kabuli_chr03	31462860	GG	TT	1946778966
SNP_P4_34067_31463199	NC_021162.1	Ca_kabuli_chr03	31463199	CC	TT	1946778968
SNP_P4_34068_31463200	NC_021162.1	Ca_kabuli_chr03	31463200	AA	GG	1946778970
SNP_P4_34069_31463446	NC_021162.1	Ca_kabuli_chr03	31463446	GG	AA	1946778972
SNP_P4_34070_31463771	NC_021162.1	Ca_kabuli_chr03	31463771	TT	CC	1946778974
SNP_P4_34071_31463779	NC_021162.1	Ca_kabuli_chr03	31463779	TT	AA	1946778976
SNP_P4_34072_31465056	NC_021162.1	Ca_kabuli_chr03	31465056	AA	GG	1946778978
SNP_P4_34073_31465472	NC_021162.1	Ca_kabuli_chr03	31465472	GG	AA	1946778980
SNP_P4_34074_31465485	NC_021162.1	Ca_kabuli_chr03	31465485	GG	AA	1946778982
SNP_P4_34075_31466068	NC_021162.1	Ca_kabuli_chr03	31466068	CC	TT	1946778984
SNP_P4_34077_31469762	NC_021162.1	Ca_kabuli_chr03	31469762	GG	AA	1946778986
SNP_P4_34078_31470068	NC_021162.1	Ca_kabuli_chr03	31470068	GG	AA	1946778989
SNP_P4_34079_31470147	NC_021162.1	Ca_kabuli_chr03	31470147	TT	GG	1946778991
SNP_P4_34080_31470148	NC_021162.1	Ca_kabuli_chr03	31470148	AA	GG	1946778993
SNP_P4_34081_31475149	NC_021162.1	Ca_kabuli_chr03	31475149	AA	GG	1946778996

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_34084_31475402	NC_021162.1	Ca_kabuli_chr03	31475402	GG	CC	1946779000
SNP_P4_34085_31475459	NC_021162.1	Ca_kabuli_chr03	31475459	AA	GG	1946779002
SNP_P4_34086_31475495	NC_021162.1	Ca_kabuli_chr03	31475495	GG	AA	1946779004
SNP_P4_34087_31475500	NC_021162.1	Ca_kabuli_chr03	31475500	GG	TT	1946779006
SNP_P4_34088_31475507	NC_021162.1	Ca_kabuli_chr03	31475507	GG	AA	1946779008
SNP_P4_34089_31475828	NC_021162.1	Ca_kabuli_chr03	31475828	CC	AA	1946779010
SNP_P4_34091_31476624	NC_021162.1	Ca_kabuli_chr03	31476624	GG	TT	1946779013
SNP_P4_34093_31477950	NC_021162.1	Ca_kabuli_chr03	31477950	GG	TT	1946779015
SNP_P4_34094_31477959	NC_021162.1	Ca_kabuli_chr03	31477959	CC	TT	1946779017
SNP_P4_34095_31477984	NC_021162.1	Ca_kabuli_chr03	31477984	TT	CC	1946779019
SNP_P4_34096_31478242	NC_021162.1	Ca_kabuli_chr03	31478242	TT	GG	1946779022
SNP_P4_34097_31478243	NC_021162.1	Ca_kabuli_chr03	31478243	AA	GG	1946779024
SNP_P4_34098_31478592	NC_021162.1	Ca_kabuli_chr03	31478592	TT	AA	1946779027
SNP_P4_34099_31479392	NC_021162.1	Ca_kabuli_chr03	31479392	CC	TT	1946779029
SNP_P4_34100_31480677	NC_021162.1	Ca_kabuli_chr03	31480677	TT	GG	1946779031
SNP_P4_34101_31480682	NC_021162.1	Ca_kabuli_chr03	31480682	CC	GG	1946779033
SNP_P4_34102_31480737	NC_021162.1	Ca_kabuli_chr03	31480737	GG	AA	1946779036
SNP_P4_34103_31481095	NC_021162.1	Ca_kabuli_chr03	31481095	TT	CC	1946779038
SNP_P4_34104_31481132	NC_021162.1	Ca_kabuli_chr03	31481132	AA	CC	1946779041
SNP_P4_34105_31481162	NC_021162.1	Ca_kabuli_chr03	31481162	GG	TT	1946779043
SNP_P4_34106_31481163	NC_021162.1	Ca_kabuli_chr03	31481163	TT	AA	1946779045
SNP_P4_34107_31482122	NC_021162.1	Ca_kabuli_chr03	31482122	AA	TT	1946779047
SNP_P4_34109_31483367	NC_021162.1	Ca_kabuli_chr03	31483367	TT	CC	1946779049
SNP_P4_34110_31483601	NC_021162.1	Ca_kabuli_chr03	31483601	TT	CC	1946779051
SNP_P4_34111_31485878	NC_021162.1	Ca_kabuli_chr03	31485878	TT	GG	1946779053
SNP_P4_34112_31486324	NC_021162.1	Ca_kabuli_chr03	31486324	GG	AA	1946779056
SNP_P4_34113_31487210	NC_021162.1	Ca_kabuli_chr03	31487210	TT	CC	1946779059
SNP_P4_34114_31487486	NC_021162.1	Ca_kabuli_chr03	31487486	GG	TT	1946779061
SNP_P4_34117_31491212	NC_021162.1	Ca_kabuli_chr03	31491212	AA	GG	1946779063
SNP_P4_34118_31491462	NC_021162.1	Ca_kabuli_chr03	31491462	TT	AA	1946779065
SNP_P4_34119_31491570	NC_021162.1	Ca_kabuli_chr03	31491570	CC	TT	1946779067
SNP_P4_34120_31492127	NC_021162.1	Ca_kabuli_chr03	31492127	CC	TT	1946779069
SNP_P4_34121_31493515	NC_021162.1	Ca_kabuli_chr03	31493515	GG	CC	1946779071
SNP_P4_34122_31493633	NC_021162.1	Ca_kabuli_chr03	31493633	TT	CC	1946779074
SNP_P4_34123_31493823	NC_021162.1	Ca_kabuli_chr03	31493823	AA	GG	1946779076
SNP_P4_34124_31493869	NC_021162.1	Ca_kabuli_chr03	31493869	GG	AA	1946779078
SNP_P4_34125_31493965	NC_021162.1	Ca_kabuli_chr03	31493965	AA	GG	1946779080
SNP_P4_34126_31494014	NC_021162.1	Ca_kabuli_chr03	31494014	CC	AA	1946779082
SNP_P4_34127_31494106	NC_021162.1	Ca_kabuli_chr03	31494106	CC	TT	1946779084
SNP_P4_34128_31494112	NC_021162.1	Ca_kabuli_chr03	31494112	CC	TT	1946779086
SNP_P4_34130_31494202	NC_021162.1	Ca_kabuli_chr03	31494202	GG	AA	1946779088

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_34132_31494802	NC_021162.1	Ca_kabuli_chr03	31494802	AA	GG	1946779094
SNP_P4_34133_31495281	NC_021162.1	Ca_kabuli_chr03	31495281	TT	GG	1946779096
SNP_P4_34134_31495288	NC_021162.1	Ca_kabuli_chr03	31495288	TT	GG	1946779098
SNP_P4_34135_31496335	NC_021162.1	Ca_kabuli_chr03	31496335	TT	GG	1946779100
SNP_P4_34136_31496704	NC_021162.1	Ca_kabuli_chr03	31496704	CC	TT	1946779102
SNP_P4_34137_31497254	NC_021162.1	Ca_kabuli_chr03	31497254	TT	CC	1946779104
SNP_P4_34138_31498284	NC_021162.1	Ca_kabuli_chr03	31498284	GG	AA	1946779107
SNP_P4_34140_31498734	NC_021162.1	Ca_kabuli_chr03	31498734	TT	AA	1946779110
SNP_P4_34141_31499046	NC_021162.1	Ca_kabuli_chr03	31499046	CC	TT	1946779112
SNP_P4_34142_31499207	NC_021162.1	Ca_kabuli_chr03	31499207	AA	GG	1946779114
SNP_P4_34143_31499210	NC_021162.1	Ca_kabuli_chr03	31499210	CC	AA	1946779116
SNP_P4_34144_31499238	NC_021162.1	Ca_kabuli_chr03	31499238	GG	AA	1946779118
SNP_P4_34146_31499550	NC_021162.1	Ca_kabuli_chr03	31499550	CC	TT	1946779120
SNP_P4_34147_31499630	NC_021162.1	Ca_kabuli_chr03	31499630	AA	CC	1946779123
SNP_P4_34148_31499771	NC_021162.1	Ca_kabuli_chr03	31499771	AA	CC	1946779125
SNP_P4_34149_31499798	NC_021162.1	Ca_kabuli_chr03	31499798	GG	TT	1946779128
SNP_P4_34151_31501239	NC_021162.1	Ca_kabuli_chr03	31501239	GG	TT	1946779130
SNP_P4_34152_31503002	NC_021162.1	Ca_kabuli_chr03	31503002	TT	CC	1946779132
SNP_P4_34153_31505018	NC_021162.1	Ca_kabuli_chr03	31505018	TT	CC	1946779134
SNP_P4_34154_31505537	NC_021162.1	Ca_kabuli_chr03	31505537	GG	AA	1946779136
SNP_P4_34155_31506040	NC_021162.1	Ca_kabuli_chr03	31506040	CC	TT	1946779138
SNP_P4_34156_31509007	NC_021162.1	Ca_kabuli_chr03	31509007	CC	AA	1946779140
SNP_P4_34157_31509516	NC_021162.1	Ca_kabuli_chr03	31509516	AA	CC	1946779142
SNP_P4_34158_31510115	NC_021162.1	Ca_kabuli_chr03	31510115	AA	CC	1946779144
SNP_P4_34159_31512000	NC_021162.1	Ca_kabuli_chr03	31512000	CC	AA	1946779147
SNP_P4_34160_31512018	NC_021162.1	Ca_kabuli_chr03	31512018	CC	TT	1946779149
SNP_P4_34161_31512034	NC_021162.1	Ca_kabuli_chr03	31512034	GG	CC	1946779151
SNP_P4_34162_31512242	NC_021162.1	Ca_kabuli_chr03	31512242	TT	GG	1946779153
SNP_P4_34163_31514670	NC_021162.1	Ca_kabuli_chr03	31514670	TT	CC	1946779155
SNP_P4_34164_31514673	NC_021162.1	Ca_kabuli_chr03	31514673	GG	CC	1946779158
SNP_P4_34165_31514720	NC_021162.1	Ca_kabuli_chr03	31514720	CC	GG	1946779160
SNP_P4_34166_31515805	NC_021162.1	Ca_kabuli_chr03	31515805	CC	TT	1946779163
SNP_P4_34167_31516766	NC_021162.1	Ca_kabuli_chr03	31516766	TT	CC	1946779165
SNP_P4_34168_31517136	NC_021162.1	Ca_kabuli_chr03	31517136	GG	AA	1946779167
SNP_P4_34169_31517201	NC_021162.1	Ca_kabuli_chr03	31517201	AA	GG	1946779169
SNP_P4_34170_31517596	NC_021162.1	Ca_kabuli_chr03	31517596	CC	TT	1946779171
SNP_P4_34171_31518763	NC_021162.1	Ca_kabuli_chr03	31518763	CC	TT	1946779173
SNP_P4_34172_31518764	NC_021162.1	Ca_kabuli_chr03	31518764	GG	AA	1946779176
SNP_P4_34173_31518879	NC_021162.1	Ca_kabuli_chr03	31518879	AA	GG	1946779178
SNP_P4_34174_31518884	NC_021162.1	Ca_kabuli_chr03	31518884	TT	GG	1946779180
SNP_P4_34176_31519542	NC_021162.1	Ca_kabuli_chr03	31519542	AA	TT	1946779182

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_34178_31519682	NC_021162.1	Ca_kabuli_chr03	31519682	TT	CC	1946779186
SNP_P4_34179_31519758	NC_021162.1	Ca_kabuli_chr03	31519758	TT	CC	1946779189
SNP_P4_34180_31519880	NC_021162.1	Ca_kabuli_chr03	31519880	CC	TT	1946779191
SNP_P4_34181_31520119	NC_021162.1	Ca_kabuli_chr03	31520119	CC	TT	1946779193
SNP_P4_34182_31520190	NC_021162.1	Ca_kabuli_chr03	31520190	TT	CC	1946779195
SNP_P4_34183_31520198	NC_021162.1	Ca_kabuli_chr03	31520198	GG	AA	1946779198
SNP_P4_34184_31520967	NC_021162.1	Ca_kabuli_chr03	31520967	AA	GG	1946779200
SNP_P4_34185_31527604	NC_021162.1	Ca_kabuli_chr03	31527604	TT	AA	1946779202
SNP_P4_34186_31527751	NC_021162.1	Ca_kabuli_chr03	31527751	AA	GG	1946779204
SNP_P4_34187_31527846	NC_021162.1	Ca_kabuli_chr03	31527846	AA	GG	1946779207
SNP_P4_34188_31528309	NC_021162.1	Ca_kabuli_chr03	31528309	GG	CC	1946779209
SNP_P4_34189_31530709	NC_021162.1	Ca_kabuli_chr03	31530709	GG	AA	1946779211
SNP_P4_34190_31530724	NC_021162.1	Ca_kabuli_chr03	31530724	CC	AA	1946779214
SNP_P4_34192_31530926	NC_021162.1	Ca_kabuli_chr03	31530926	AA	GG	1946779216
SNP_P4_34193_31532802	NC_021162.1	Ca_kabuli_chr03	31532802	TT	GG	1946779219
SNP_P4_34194_31533128	NC_021162.1	Ca_kabuli_chr03	31533128	CC	TT	1946779221
SNP_P4_34195_31533141	NC_021162.1	Ca_kabuli_chr03	31533141	AA	GG	1946779223
SNP_P4_34196_31533161	NC_021162.1	Ca_kabuli_chr03	31533161	AA	GG	1946779226
SNP_P4_34197_31533291	NC_021162.1	Ca_kabuli_chr03	31533291	CC	TT	1946779228
SNP_P4_34198_31535551	NC_021162.1	Ca_kabuli_chr03	31535551	GG	TT	1946779230
SNP_P4_34200_31535592	NC_021162.1	Ca_kabuli_chr03	31535592	TT	AA	1946779233
SNP_P4_34201_31536241	NC_021162.1	Ca_kabuli_chr03	31536241	AA	TT	1946779235
SNP_P4_34202_31536743	NC_021162.1	Ca_kabuli_chr03	31536743	GG	CC	1946779237
SNP_P4_34203_31536749	NC_021162.1	Ca_kabuli_chr03	31536749	TT	CC	1946779239
SNP_P4_34204_31538421	NC_021162.1	Ca_kabuli_chr03	31538421	TT	AA	1946779241
SNP_P4_34205_31538422	NC_021162.1	Ca_kabuli_chr03	31538422	TT	CC	1946779244
SNP_P4_34207_31538607	NC_021162.1	Ca_kabuli_chr03	31538607	GG	AA	1946779247
SNP_P4_34208_31539836	NC_021162.1	Ca_kabuli_chr03	31539836	TT	AA	1946779249
SNP_P4_34209_31542798	NC_021162.1	Ca_kabuli_chr03	31542798	CC	AA	1946779251
SNP_P4_34210_31543787	NC_021162.1	Ca_kabuli_chr03	31543787	CC	TT	1946779253
SNP_P4_34211_31544114	NC_021162.1	Ca_kabuli_chr03	31544114	TT	CC	1946779256
SNP_P4_34212_31544206	NC_021162.1	Ca_kabuli_chr03	31544206	AA	CC	1946779258
SNP_P4_34213_31544279	NC_021162.1	Ca_kabuli_chr03	31544279	AA	GG	1946779260
SNP_P4_34214_31560572	NC_021162.1	Ca_kabuli_chr03	31560572	GG	AA	1946779262
SNP_P4_34215_31560698	NC_021162.1	Ca_kabuli_chr03	31560698	TT	CC	1946779264
SNP_P4_34216_31560700	NC_021162.1	Ca_kabuli_chr03	31560700	TT	AA	1946779267
SNP_P4_34217_31560701	NC_021162.1	Ca_kabuli_chr03	31560701	TT	CC	1946779269
SNP_P4_34219_31560710	NC_021162.1	Ca_kabuli_chr03	31560710	AA	GG	1946779271
SNP_P4_34220_31563214	NC_021162.1	Ca_kabuli_chr03	31563214	GG	AA	1946779274
SNP_P4_34221_31563553	NC_021162.1	Ca_kabuli_chr03	31563553	GG	AA	1946779276
SNP_P4_34222_31563575	NC_021162.1	Ca_kabuli_chr03	31563575	GG	AA	1946779279

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_34224_31563584	NC_021162.1	Ca_kabuli_chr03	31563584	TT	CC	1946779283
SNP_P4_34225_31565398	NC_021162.1	Ca_kabuli_chr03	31565398	TT	GG	1946779286
SNP_P4_34226_31565399	NC_021162.1	Ca_kabuli_chr03	31565399	GG	AA	1946779288
SNP_P4_34227_31565657	NC_021162.1	Ca_kabuli_chr03	31565657	CC	TT	1946779290
SNP_P4_34228_31565674	NC_021162.1	Ca_kabuli_chr03	31565674	GG	CC	1946779292
SNP_P4_34229_31565676	NC_021162.1	Ca_kabuli_chr03	31565676	AA	GG	1946779295
SNP_P4_34230_31566048	NC_021162.1	Ca_kabuli_chr03	31566048	TT	AA	1946779297
SNP_P4_34231_31566248	NC_021162.1	Ca_kabuli_chr03	31566248	GG	AA	1946779299
SNP_P4_34232_31566251	NC_021162.1	Ca_kabuli_chr03	31566251	GG	AA	1946779302
SNP_P4_34233_31566857	NC_021162.1	Ca_kabuli_chr03	31566857	CC	TT	1946779304
SNP_P4_34234_31567457	NC_021162.1	Ca_kabuli_chr03	31567457	CC	AA	1946779306
SNP_P4_34235_31569075	NC_021162.1	Ca_kabuli_chr03	31569075	GG	AA	1946779308
SNP_P4_34236_31569454	NC_021162.1	Ca_kabuli_chr03	31569454	CC	TT	1946779310
SNP_P4_34237_31571091	NC_021162.1	Ca_kabuli_chr03	31571091	GG	AA	1946779312
SNP_P4_34238_31572256	NC_021162.1	Ca_kabuli_chr03	31572256	AA	GG	1946779314
SNP_P4_34239_31572651	NC_021162.1	Ca_kabuli_chr03	31572651	GG	AA	1946779316
SNP_P4_34240_31572751	NC_021162.1	Ca_kabuli_chr03	31572751	CC	AA	1946779318
SNP_P4_34241_31574271	NC_021162.1	Ca_kabuli_chr03	31574271	GG	AA	1946779321
SNP_P4_34242_31574612	NC_021162.1	Ca_kabuli_chr03	31574612	AA	GG	1946779323
SNP_P4_34243_31574644	NC_021162.1	Ca_kabuli_chr03	31574644	CC	TT	1946779325
SNP_P4_34244_31574658	NC_021162.1	Ca_kabuli_chr03	31574658	AA	TT	1946779327
SNP_P4_34245_31574811	NC_021162.1	Ca_kabuli_chr03	31574811	AA	TT	1946779329
SNP_P4_34246_31575128	NC_021162.1	Ca_kabuli_chr03	31575128	CC	AA	1946779331
SNP_P4_34247_31575221	NC_021162.1	Ca_kabuli_chr03	31575221	TT	CC	1946779333
SNP_P4_34248_31575682	NC_021162.1	Ca_kabuli_chr03	31575682	AA	GG	1946779336
SNP_P4_34249_31577975	NC_021162.1	Ca_kabuli_chr03	31577975	GG	AA	1946779338
SNP_P4_34250_31577984	NC_021162.1	Ca_kabuli_chr03	31577984	TT	GG	1946779340
SNP_P4_34251_31578008	NC_021162.1	Ca_kabuli_chr03	31578008	GG	AA	1946779342
SNP_P4_34252_31578139	NC_021162.1	Ca_kabuli_chr03	31578139	CC	TT	1946779345
SNP_P4_34253_31578205	NC_021162.1	Ca_kabuli_chr03	31578205	GG	AA	1946779347
SNP_P4_34254_31578217	NC_021162.1	Ca_kabuli_chr03	31578217	AA	CC	1946779350
SNP_P4_34256_31578677	NC_021162.1	Ca_kabuli_chr03	31578677	CC	AA	1946779352
SNP_P4_34257_31578689	NC_021162.1	Ca_kabuli_chr03	31578689	AA	CC	1946779354
SNP_P4_34258_31582210	NC_021162.1	Ca_kabuli_chr03	31582210	AA	GG	1946779357
SNP_P4_34259_31583819	NC_021162.1	Ca_kabuli_chr03	31583819	TT	CC	1946779359
SNP_P4_34260_31584193	NC_021162.1	Ca_kabuli_chr03	31584193	GG	AA	1946779361
SNP_P4_34261_31585382	NC_021162.1	Ca_kabuli_chr03	31585382	TT	GG	1946779364
SNP_P4_34262_31585384	NC_021162.1	Ca_kabuli_chr03	31585384	CC	TT	1946779366
SNP_P4_34263_31585493	NC_021162.1	Ca_kabuli_chr03	31585493	GG	AA	1946779368
SNP_P4_34264_31585502	NC_021162.1	Ca_kabuli_chr03	31585502	GG	CC	1946779370
SNP_P4_34265_31585516	NC_021162.1	Ca_kabuli_chr03	31585516	TT	CC	1946779374

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_34267_31585904	NC_021162.1	Ca_kabuli_chr03	31585904	AA	GG	1946779379
SNP_P4_34268_31585907	NC_021162.1	Ca_kabuli_chr03	31585907	TT	CC	1946779381
SNP_P4_34269_31585925	NC_021162.1	Ca_kabuli_chr03	31585925	CC	TT	1946779383
SNP_P4_34270_31585926	NC_021162.1	Ca_kabuli_chr03	31585926	AA	TT	1946779385
SNP_P4_34271_31585948	NC_021162.1	Ca_kabuli_chr03	31585948	AA	GG	1946779387
SNP_P4_34272_31585951	NC_021162.1	Ca_kabuli_chr03	31585951	CC	GG	1946779389
SNP_P4_34273_31587490	NC_021162.1	Ca_kabuli_chr03	31587490	GG	CC	1946779393
SNP_P4_34274_31587826	NC_021162.1	Ca_kabuli_chr03	31587826	CC	GG	1946779395
SNP_P4_34277_31589465	NC_021162.1	Ca_kabuli_chr03	31589465	AA	CC	1946779397
SNP_P4_34278_31589643	NC_021162.1	Ca_kabuli_chr03	31589643	AA	GG	1946779399
SNP_P4_34279_31590720	NC_021162.1	Ca_kabuli_chr03	31590720	TT	CC	1946779401
SNP_P4_34280_31591369	NC_021162.1	Ca_kabuli_chr03	31591369	CC	GG	1946779403
SNP_P4_34281_31591931	NC_021162.1	Ca_kabuli_chr03	31591931	AA	GG	1946779405
SNP_P4_34282_31592318	NC_021162.1	Ca_kabuli_chr03	31592318	GG	TT	1946779407
SNP_P4_34283_31592502	NC_021162.1	Ca_kabuli_chr03	31592502	GG	TT	1946779409
SNP_P4_34284_31592530	NC_021162.1	Ca_kabuli_chr03	31592530	TT	GG	1946779411
SNP_P4_34285_31592544	NC_021162.1	Ca_kabuli_chr03	31592544	TT	CC	1946779413
SNP_P4_34286_31592612	NC_021162.1	Ca_kabuli_chr03	31592612	GG	AA	1946779415
SNP_P4_34287_31592839	NC_021162.1	Ca_kabuli_chr03	31592839	TT	AA	1946779418
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SNP_P4_34290_31593602	NC_021162.1	Ca_kabuli_chr03	31593602	TT	CC	1946779424
SNP_P4_34291_31594902	NC_021162.1	Ca_kabuli_chr03	31594902	CC	TT	1946779426
SNP_P4_34292_31594921	NC_021162.1	Ca_kabuli_chr03	31594921	AA	TT	1946779428
SNP_P4_34293_31594994	NC_021162.1	Ca_kabuli_chr03	31594994	AA	GG	1946779430
SNP_P4_34294_31595104	NC_021162.1	Ca_kabuli_chr03	31595104	AA	GG	1946779432
SNP_P4_34295_31595117	NC_021162.1	Ca_kabuli_chr03	31595117	CC	TT	1946779434
SNP_P4_34296_31595157	NC_021162.1	Ca_kabuli_chr03	31595157	AA	GG	1946779436
SNP_P4_34297_31595288	NC_021162.1	Ca_kabuli_chr03	31595288	GG	AA	1946779438
SNP_P4_34298_31601950	NC_021162.1	Ca_kabuli_chr03	31601950	TT	AA	1946779441
SNP_P4_34299_31601958	NC_021162.1	Ca_kabuli_chr03	31601958	TT	GG	1946779443
SNP_P4_34300_31602012	NC_021162.1	Ca_kabuli_chr03	31602012	GG	TT	1946779446
SNP_P4_34301_31602031	NC_021162.1	Ca_kabuli_chr03	31602031	AA	TT	1946779448
SNP_P4_34302_31602036	NC_021162.1	Ca_kabuli_chr03	31602036	AA	GG	1946779450
SNP_P4_34303_31602167	NC_021162.1	Ca_kabuli_chr03	31602167	CC	TT	1946779452
SNP_P4_34304_31602194	NC_021162.1	Ca_kabuli_chr03	31602194	TT	CC	1946779454
SNP_P4_34305_31602229	NC_021162.1	Ca_kabuli_chr03	31602229	AA	GG	1946779456
SNP_P4_34306_31602668	NC_021162.1	Ca_kabuli_chr03	31602668	CC	TT	1946779458
SNP_P4_34307_31602819	NC_021162.1	Ca_kabuli_chr03	31602819	GG	AA	1946779460
SNP_P4_34308_31602827	NC_021162.1	Ca_kabuli_chr03	31602827	CC	TT	1946779462
SNP_P4_34309_31603099	NC_021162.1	Ca_kabuli_chr03	31603099	GG	AA	1946779464

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_34311_31604297	NC_021162.1	Ca_kabuli_chr03	31604297	GG	AA	1946779468
SNP_P4_34313_31604416	NC_021162.1	Ca_kabuli_chr03	31604416	CC	TT	1946779470
SNP_P4_34314_31604424	NC_021162.1	Ca_kabuli_chr03	31604424	TT	AA	1946779473
SNP_P4_34315_31604750	NC_021162.1	Ca_kabuli_chr03	31604750	TT	CC	1946779475
SNP_P4_34316_31605724	NC_021162.1	Ca_kabuli_chr03	31605724	AA	GG	1946779477
SNP_P4_34317_31607988	NC_021162.1	Ca_kabuli_chr03	31607988	TT	CC	1946779479
SNP_P4_34318_31607994	NC_021162.1	Ca_kabuli_chr03	31607994	GG	CC	1946779481
SNP_P4_34319_31607995	NC_021162.1	Ca_kabuli_chr03	31607995	GG	TT	1946779483
SNP_P4_34320_31608240	NC_021162.1	Ca_kabuli_chr03	31608240	TT	AA	1946779485
SNP_P4_34321_31608641	NC_021162.1	Ca_kabuli_chr03	31608641	GG	CC	1946779487
SNP_P4_34322_31608649	NC_021162.1	Ca_kabuli_chr03	31608649	CC	TT	1946779489
SNP_P4_34323_31608655	NC_021162.1	Ca_kabuli_chr03	31608655	GG	AA	1946779491
SNP_P4_34325_31610812	NC_021162.1	Ca_kabuli_chr03	31610812	CC	TT	1946779493
SNP_P4_34326_31612505	NC_021162.1	Ca_kabuli_chr03	31612505	AA	GG	1946779495
SNP_P4_34327_31612519	NC_021162.1	Ca_kabuli_chr03	31612519	TT	CC	1946779497
SNP_P4_34328_31612532	NC_021162.1	Ca_kabuli_chr03	31612532	AA	CC	1946779500
SNP_P4_34329_31612850	NC_021162.1	Ca_kabuli_chr03	31612850	GG	TT	1946779502
SNP_P4_34330_31612866	NC_021162.1	Ca_kabuli_chr03	31612866	AA	CC	1946779504
SNP_P4_34331_31612875	NC_021162.1	Ca_kabuli_chr03	31612875	AA	TT	1946779506
SNP_P4_34332_31613424	NC_021162.1	Ca_kabuli_chr03	31613424	CC	GG	1946779508
SNP_P4_34333_31613431	NC_021162.1	Ca_kabuli_chr03	31613431	AA	GG	1946779510
SNP_P4_34334_31616058	NC_021162.1	Ca_kabuli_chr03	31616058	AA	GG	1946779512
SNP_P4_34335_31616077	NC_021162.1	Ca_kabuli_chr03	31616077	GG	AA	1946779514
SNP_P4_34336_31616121	NC_021162.1	Ca_kabuli_chr03	31616121	AA	GG	1946779516
SNP_P4_34337_31616467	NC_021162.1	Ca_kabuli_chr03	31616467	GG	AA	1946779519
SNP_P4_34338_31618311	NC_021162.1	Ca_kabuli_chr03	31618311	GG	TT	1946779521
SNP_P4_34339_31618407	NC_021162.1	Ca_kabuli_chr03	31618407	AA	CC	1946779523
SNP_P4_34340_31618568	NC_021162.1	Ca_kabuli_chr03	31618568	CC	GG	1946779525
SNP_P4_34341_31618829	NC_021162.1	Ca_kabuli_chr03	31618829	TT	CC	1946779527
SNP_P4_34342_31618868	NC_021162.1	Ca_kabuli_chr03	31618868	TT	AA	1946779529
SNP_P4_34343_31618910	NC_021162.1	Ca_kabuli_chr03	31618910	GG	AA	1946779531
SNP_P4_34344_31619569	NC_021162.1	Ca_kabuli_chr03	31619569	GG	TT	1946779533
SNP_P4_34345_31619783	NC_021162.1	Ca_kabuli_chr03	31619783	GG	TT	1946779536
SNP_P4_34346_31623810	NC_021162.1	Ca_kabuli_chr03	31623810	AA	GG	1946779538
SNP_P4_34347_31624028	NC_021162.1	Ca_kabuli_chr03	31624028	TT	GG	1946779540
SNP_P4_34348_31624032	NC_021162.1	Ca_kabuli_chr03	31624032	GG	AA	1946779542
SNP_P4_34349_31624049	NC_021162.1	Ca_kabuli_chr03	31624049	GG	CC	1946779544
SNP_P4_34350_31624134	NC_021162.1	Ca_kabuli_chr03	31624134	TT	GG	1946779546
SNP_P4_34351_31624482	NC_021162.1	Ca_kabuli_chr03	31624482	GG	AA	1946779549
SNP_P4_34352_31624536	NC_021162.1	Ca_kabuli_chr03	31624536	TT	AA	1946779551
SNP_P4_34355_31625914	NC_021162.1	Ca_kabuli_chr03	31625914	GG	AA	1946779553

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_34357_31627871	NC_021162.1	Ca_kabuli_chr03	31627871	TT	CC	1946779557
SNP_P4_34358_31630195	NC_021162.1	Ca_kabuli_chr03	31630195	TT	CC	1946779560
SNP_P4_34359_31630384	NC_021162.1	Ca_kabuli_chr03	31630384	GG	TT	1946779562
SNP_P4_34362_31632006	NC_021162.1	Ca_kabuli_chr03	31632006	GG	AA	1946779564
SNP_P4_34363_31632307	NC_021162.1	Ca_kabuli_chr03	31632307	AA	GG	1946779566
SNP_P4_34364_31632308	NC_021162.1	Ca_kabuli_chr03	31632308	AA	GG	1946779568
SNP_P4_34365_31632310	NC_021162.1	Ca_kabuli_chr03	31632310	GG	TT	1946779571
SNP_P4_34366_31632311	NC_021162.1	Ca_kabuli_chr03	31632311	TT	AA	1946779573
SNP_P4_34367_31632313	NC_021162.1	Ca_kabuli_chr03	31632313	AA	TT	1946779575
SNP_P4_34371_31633542	NC_021162.1	Ca_kabuli_chr03	31633542	CC	GG	1946779577
SNP_P4_34372_31633615	NC_021162.1	Ca_kabuli_chr03	31633615	GG	AA	1946779579
SNP_P4_34373_31634511	NC_021162.1	Ca_kabuli_chr03	31634511	TT	AA	1946779581
SNP_P4_34374_31634761	NC_021162.1	Ca_kabuli_chr03	31634761	TT	CC	1946779583
SNP_P4_34375_31634818	NC_021162.1	Ca_kabuli_chr03	31634818	TT	CC	1946779585
SNP_P4_34376_31635557	NC_021162.1	Ca_kabuli_chr03	31635557	CC	TT	1946779587
SNP_P4_34377_31635564	NC_021162.1	Ca_kabuli_chr03	31635564	AA	CC	1946779590
SNP_P4_34379_31636087	NC_021162.1	Ca_kabuli_chr03	31636087	AA	GG	1946779592
SNP_P4_34380_31636301	NC_021162.1	Ca_kabuli_chr03	31636301	AA	GG	1946779594
SNP_P4_34381_31636529	NC_021162.1	Ca_kabuli_chr03	31636529	CC	TT	1946779596
SNP_P4_34382_31636768	NC_021162.1	Ca_kabuli_chr03	31636768	AA	GG	1946779598
SNP_P4_34383_31636913	NC_021162.1	Ca_kabuli_chr03	31636913	CC	TT	1946779602
SNP_P4_34385_31637172	NC_021162.1	Ca_kabuli_chr03	31637172	CC	TT	1946779604
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SNP_P4_34387_31641927	NC_021162.1	Ca_kabuli_chr03	31641927	GG	TT	1946779608
SNP_P4_34388_31646112	NC_021162.1	Ca_kabuli_chr03	31646112	CC	TT	1946779610
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SNP_P4_34390_31646454	NC_021162.1	Ca_kabuli_chr03	31646454	AA	GG	1946779614
SNP_P4_34391_31656226	NC_021162.1	Ca_kabuli_chr03	31656226	CC	TT	1946779617
SNP_P4_34393_31671478	NC_021162.1	Ca_kabuli_chr03	31671478	TT	CC	1946779619
SNP_P4_34395_31675039	NC_021162.1	Ca_kabuli_chr03	31675039	GG	AA	1946779621
SNP_P4_34396_31681004	NC_021162.1	Ca_kabuli_chr03	31681004	GG	CC	1946779623
SNP_P4_34397_31681372	NC_021162.1	Ca_kabuli_chr03	31681372	TT	AA	1946779625
SNP_P4_34398_31693784	NC_021162.1	Ca_kabuli_chr03	31693784	GG	AA	1946779627
SNP_P4_34399_31693949	NC_021162.1	Ca_kabuli_chr03	31693949	TT	AA	1946779630
SNP_P4_34400_31700183	NC_021162.1	Ca_kabuli_chr03	31700183	AA	TT	1946779632
SNP_P4_34401_31739495	NC_021162.1	Ca_kabuli_chr03	31739495	CC	TT	1946779634
SNP_P4_34402_31775113	NC_021162.1	Ca_kabuli_chr03	31775113	TT	GG	1946779636
SNP_P4_34404_31800872	NC_021162.1	Ca_kabuli_chr03	31800872	CC	TT	1946779638
SNP_P4_34405_31811588	NC_021162.1	Ca_kabuli_chr03	31811588	AA	CC	1946779640
SNP_P4_34407_31902349	NC_021162.1	Ca_kabuli_chr03	31902349	AA	GG	1946779643
SNP_P4_34408_31906484	NC_021162.1	Ca_kabuli_chr03	31906484	TT	AA	1946779645

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_34411_31939782	NC_021162.1	Ca_kabuli_chr03	31939782	AA	CC	1946779649
SNP_P4_34412_31939825	NC_021162.1	Ca_kabuli_chr03	31939825	AA	TT	1946779651
SNP_P4_34414_31940126	NC_021162.1	Ca_kabuli_chr03	31940126	TT	GG	1946779653
SNP_P4_34415_31940187	NC_021162.1	Ca_kabuli_chr03	31940187	CC	TT	1946779655
SNP_P4_34416_31940378	NC_021162.1	Ca_kabuli_chr03	31940378	CC	TT	1946779657
SNP_P4_34417_31940438	NC_021162.1	Ca_kabuli_chr03	31940438	CC	GG	1946779659
SNP_P4_34418_31940484	NC_021162.1	Ca_kabuli_chr03	31940484	GG	CC	1946779662
SNP_P4_34419_31940682	NC_021162.1	Ca_kabuli_chr03	31940682	GG	AA	1946779664
SNP_P4_34420_31940714	NC_021162.1	Ca_kabuli_chr03	31940714	AA	GG	1946779666
SNP_P4_34421_31940744	NC_021162.1	Ca_kabuli_chr03	31940744	TT	CC	1946779668
SNP_P4_34422_31940766	NC_021162.1	Ca_kabuli_chr03	31940766	CC	TT	1946779670
SNP_P4_34423_31942794	NC_021162.1	Ca_kabuli_chr03	31942794	CC	TT	1946779672
SNP_P4_34425_32334831	NC_021162.1	Ca_kabuli_chr03	32334831	AA	GG	1946779675
SNP_P4_34426_32334844	NC_021162.1	Ca_kabuli_chr03	32334844	TT	GG	1946779677
SNP_P4_34427_32334858	NC_021162.1	Ca_kabuli_chr03	32334858	CC	TT	1946779679
SNP_P4_34428_32334899	NC_021162.1	Ca_kabuli_chr03	32334899	TT	CC	1946779681
SNP_P4_34429_32334940	NC_021162.1	Ca_kabuli_chr03	32334940	AA	CC	1946779683
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SNP_P4_34431_32334985	NC_021162.1	Ca_kabuli_chr03	32334985	TT	GG	1946779687
SNP_P4_34432_32335906	NC_021162.1	Ca_kabuli_chr03	32335906	CC	TT	1946779690
SNP_P4_34433_32347697	NC_021162.1	Ca_kabuli_chr03	32347697	GG	AA	1946779692
SNP_P4_34434_32360456	NC_021162.1	Ca_kabuli_chr03	32360456	TT	CC	1946779694
SNP_P4_34435_32373434	NC_021162.1	Ca_kabuli_chr03	32373434	AA	CC	1946779696
SNP_P4_34436_32376298	NC_021162.1	Ca_kabuli_chr03	32376298	AA	CC	1946779698
SNP_P4_34437_32376954	NC_021162.1	Ca_kabuli_chr03	32376954	CC	TT	1946779700
SNP_P4_34438_32378896	NC_021162.1	Ca_kabuli_chr03	32378896	TT	GG	1946779702
SNP_P4_34439_32378897	NC_021162.1	Ca_kabuli_chr03	32378897	GG	AA	1946779705
SNP_P4_34442_32414372	NC_021162.1	Ca_kabuli_chr03	32414372	TT	CC	1946779707
SNP_P4_34443_32414401	NC_021162.1	Ca_kabuli_chr03	32414401	TT	CC	1946779709
SNP_P4_34444_32414411	NC_021162.1	Ca_kabuli_chr03	32414411	CC	TT	1946779711
SNP_P4_34445_32414493	NC_021162.1	Ca_kabuli_chr03	32414493	AA	GG	1946779713
SNP_P4_34446_32414497	NC_021162.1	Ca_kabuli_chr03	32414497	TT	GG	1946779715
SNP_P4_34447_32414554	NC_021162.1	Ca_kabuli_chr03	32414554	AA	CC	1946779718
SNP_P4_34448_32414613	NC_021162.1	Ca_kabuli_chr03	32414613	AA	GG	1946779720
SNP_P4_34449_32414834	NC_021162.1	Ca_kabuli_chr03	32414834	TT	CC	1946779722
SNP_P4_34450_32417324	NC_021162.1	Ca_kabuli_chr03	32417324	CC	TT	1946779724
SNP_P4_34451_32418659	NC_021162.1	Ca_kabuli_chr03	32418659	CC	TT	1946779726
SNP_P4_34452_32431046	NC_021162.1	Ca_kabuli_chr03	32431046	CC	AA	1946779728
SNP_P4_34453_32431050	NC_021162.1	Ca_kabuli_chr03	32431050	CC	AA	1946779730
SNP_P4_34454_32431052	NC_021162.1	Ca_kabuli_chr03	32431052	GG	AA	1946779732
SNP_P4_34455_32431054	NC_021162.1	Ca_kabuli_chr03	32431054	AA	TT	1946779734

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_34457_32453086	NC_021162.1	Ca_kabuli_chr03	32453086	AA	TT	1946779738
SNP_P4_34458_32457393	NC_021162.1	Ca_kabuli_chr03	32457393	TT	CC	1946779740
SNP_P4_34459_32457406	NC_021162.1	Ca_kabuli_chr03	32457406	AA	GG	1946779743
SNP_P4_34460_32457426	NC_021162.1	Ca_kabuli_chr03	32457426	CC	TT	1946779745
SNP_P4_34461_32457516	NC_021162.1	Ca_kabuli_chr03	32457516	TT	AA	1946779747
SNP_P4_34462_32457747	NC_021162.1	Ca_kabuli_chr03	32457747	GG	AA	1946779749
SNP_P4_34463_32457924	NC_021162.1	Ca_kabuli_chr03	32457924	CC	AA	1946779751
SNP_P4_34464_32458016	NC_021162.1	Ca_kabuli_chr03	32458016	CC	AA	1946779753
SNP_P4_34465_32458192	NC_021162.1	Ca_kabuli_chr03	32458192	CC	AA	1946779755
SNP_P4_34466_32458230	NC_021162.1	Ca_kabuli_chr03	32458230	CC	TT	1946779757
SNP_P4_34467_32458251	NC_021162.1	Ca_kabuli_chr03	32458251	TT	AA	1946779760
SNP_P4_34469_32478465	NC_021162.1	Ca_kabuli_chr03	32478465	AA	CC	1946779762
SNP_P4_34470_32481809	NC_021162.1	Ca_kabuli_chr03	32481809	GG	AA	1946779764
SNP_P4_34471_32482929	NC_021162.1	Ca_kabuli_chr03	32482929	TT	CC	1946779766
SNP_P4_34472_32485805	NC_021162.1	Ca_kabuli_chr03	32485805	TT	CC	1946779768
SNP_P4_34474_32488762	NC_021162.1	Ca_kabuli_chr03	32488762	TT	AA	1946779770
SNP_P4_34476_32515605	NC_021162.1	Ca_kabuli_chr03	32515605	GG	AA	1946779773
SNP_P4_34477_32535281	NC_021162.1	Ca_kabuli_chr03	32535281	GG	AA	1946779775
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SNP_P4_34480_32545149	NC_021162.1	Ca_kabuli_chr03	32545149	AA	TT	1946779779
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SNP_P4_34485_32581927	NC_021162.1	Ca_kabuli_chr03	32581927	TT	CC	1946779783
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SNP_P4_34487_32582211	NC_021162.1	Ca_kabuli_chr03	32582211	AA	GG	1946779787
SNP_P4_34488_32582290	NC_021162.1	Ca_kabuli_chr03	32582290	AA	TT	1946779789
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SNP_P4_34492_32589963	NC_021162.1	Ca_kabuli_chr03	32589963	CC	TT	1946779796
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SNP_P4_34495_32597780	NC_021162.1	Ca_kabuli_chr03	32597780	AA	GG	1946779800
SNP_P4_34496_32615823	NC_021162.1	Ca_kabuli_chr03	32615823	CC	TT	1946779802
SNP_P4_34498_32625227	NC_021162.1	Ca_kabuli_chr03	32625227	AA	TT	1946779805
SNP_P4_34501_32679335	NC_021162.1	Ca_kabuli_chr03	32679335	TT	AA	1946779807
SNP_P4_34504_32700646	NC_021162.1	Ca_kabuli_chr03	32700646	GG	AA	1946779809
SNP_P4_34505_32702386	NC_021162.1	Ca_kabuli_chr03	32702386	CC	TT	1946779811
SNP_P4_34506_32740057	NC_021162.1	Ca_kabuli_chr03	32740057	TT	GG	1946779814
SNP_P4_34507_32752139	NC_021162.1	Ca_kabuli_chr03	32752139	CC	TT	1946779816
SNP_P4_34508_32752140	NC_021162.1	Ca_kabuli_chr03	32752140	GG	TT	1946779819
SNP_P4_34509_32752143	NC_021162.1	Ca_kabuli_chr03	32752143	CC	TT	1946779822
SNP_P4_34510_32752150	NC_021162.1	Ca_kabuli_chr03	32752150	GG	AA	1946779824
SNP_P4_34511_32752331	NC_021162.1	Ca_kabuli_chr03	32752331	CC	AA	1946779827

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_34513_32752334	NC_021162.1	Ca_kabuli_chr03	32752334	AA	TT	1946779832
SNP_P4_34514_32752338	NC_021162.1	Ca_kabuli_chr03	32752338	AA	GG	1946779834
SNP_P4_34515_32770538	NC_021162.1	Ca_kabuli_chr03	32770538	GG	AA	1946779836
SNP_P4_34516_32781308	NC_021162.1	Ca_kabuli_chr03	32781308	AA	CC	1946779838
SNP_P4_34518_32822380	NC_021162.1	Ca_kabuli_chr03	32822380	CC	GG	1946779840
SNP_P4_34519_32824050	NC_021162.1	Ca_kabuli_chr03	32824050	CC	TT	1946779843
SNP_P4_34520_32829883	NC_021162.1	Ca_kabuli_chr03	32829883	AA	TT	1946779846
SNP_P4_34521_32832264	NC_021162.1	Ca_kabuli_chr03	32832264	GG	AA	1946779848
SNP_P4_34523_32840886	NC_021162.1	Ca_kabuli_chr03	32840886	AA	TT	1946779850
SNP_P4_34524_32849933	NC_021162.1	Ca_kabuli_chr03	32849933	TT	CC	1946779852
SNP_P4_34525_32851370	NC_021162.1	Ca_kabuli_chr03	32851370	TT	GG	1946779854
SNP_P4_34527_32858188	NC_021162.1	Ca_kabuli_chr03	32858188	TT	CC	1946779857
SNP_P4_34529_32876787	NC_021162.1	Ca_kabuli_chr03	32876787	AA	TT	1946779859
SNP_P4_34530_32881921	NC_021162.1	Ca_kabuli_chr03	32881921	GG	AA	1946779861
SNP_P4_34532_32925333	NC_021162.1	Ca_kabuli_chr03	32925333	AA	CC	1946779863
SNP_P4_34533_32925335	NC_021162.1	Ca_kabuli_chr03	32925335	AA	TT	1946779866
SNP_P4_34534_32925347	NC_021162.1	Ca_kabuli_chr03	32925347	AA	GG	1946779868
SNP_P4_34535_32963186	NC_021162.1	Ca_kabuli_chr03	32963186	GG	TT	1946779870
SNP_P4_34536_32965908	NC_021162.1	Ca_kabuli_chr03	32965908	CC	TT	1946779872
SNP_P4_34537_32982680	NC_021162.1	Ca_kabuli_chr03	32982680	CC	TT	1946779874
SNP_P4_34538_32992671	NC_021162.1	Ca_kabuli_chr03	32992671	GG	CC	1946779876
SNP_P4_34540_33026491	NC_021162.1	Ca_kabuli_chr03	33026491	CC	TT	1946779878
SNP_P4_34541_33029224	NC_021162.1	Ca_kabuli_chr03	33029224	TT	AA	1946779881
SNP_P4_34542_33029225	NC_021162.1	Ca_kabuli_chr03	33029225	TT	AA	1946779883
SNP_P4_34543_33030488	NC_021162.1	Ca_kabuli_chr03	33030488	GG	TT	1946779885
SNP_P4_34544_33035860	NC_021162.1	Ca_kabuli_chr03	33035860	GG	AA	1946779887
SNP_P4_34545_33035861	NC_021162.1	Ca_kabuli_chr03	33035861	AA	TT	1946779889
SNP_P4_34548_33084828	NC_021162.1	Ca_kabuli_chr03	33084828	GG	TT	1946779891
SNP_P4_34549_33097262	NC_021162.1	Ca_kabuli_chr03	33097262	AA	GG	1946779893
SNP_P4_34550_33099629	NC_021162.1	Ca_kabuli_chr03	33099629	TT	CC	1946779896
SNP_P4_34551_33099632	NC_021162.1	Ca_kabuli_chr03	33099632	TT	GG	1946779898
SNP_P4_34553_33107892	NC_021162.1	Ca_kabuli_chr03	33107892	AA	GG	1946779900
SNP_P4_34554_33121835	NC_021162.1	Ca_kabuli_chr03	33121835	TT	GG	1946779902
SNP_P4_34555_33122650	NC_021162.1	Ca_kabuli_chr03	33122650	AA	GG	1946779904
SNP_P4_34556_33130968	NC_021162.1	Ca_kabuli_chr03	33130968	TT	CC	1946779906
SNP_P4_34557_33131102	NC_021162.1	Ca_kabuli_chr03	33131102	GG	AA	1946779908
SNP_P4_34558_33145201	NC_021162.1	Ca_kabuli_chr03	33145201	TT	AA	1946779910
SNP_P4_34559_33145381	NC_021162.1	Ca_kabuli_chr03	33145381	AA	GG	1946779912
SNP_P4_34560_33145384	NC_021162.1	Ca_kabuli_chr03	33145384	AA	GG	1946779915
SNP_P4_34561_33153840	NC_021162.1	Ca_kabuli_chr03	33153840	GG	AA	1946779917
SNP_P4_34562_33162890	NC_021162.1	Ca_kabuli_chr03	33162890	AA	GG	1946779919

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_34563_33170917	NC_021162.1	Ca_kabuli_chr03	33170917	TT	CC	1946779921
SNP_P4_34564_33178143	NC_021162.1	Ca_kabuli_chr03	33178143	CC	AA	1946779923
SNP_P4_34565_33181094	NC_021162.1	Ca_kabuli_chr03	33181094	CC	TT	1946779925
SNP_P4_34566_33190221	NC_021162.1	Ca_kabuli_chr03	33190221	AA	TT	1946779927
SNP_P4_34568_33192900	NC_021162.1	Ca_kabuli_chr03	33192900	GG	AA	1946779929
SNP_P4_34570_33228442	NC_021162.1	Ca_kabuli_chr03	33228442	GG	AA	1946779932
SNP_P4_34572_33279010	NC_021162.1	Ca_kabuli_chr03	33279010	AA	TT	1946779934
SNP_P4_34573_33279310	NC_021162.1	Ca_kabuli_chr03	33279310	CC	GG	1946779936
SNP_P4_34574_33279311	NC_021162.1	Ca_kabuli_chr03	33279311	TT	GG	1946779938
SNP_P4_34575_33279331	NC_021162.1	Ca_kabuli_chr03	33279331	GG	AA	1946779941
SNP_P4_34576_33290623	NC_021162.1	Ca_kabuli_chr03	33290623	CC	AA	1946779943
SNP_P4_34577_33290922	NC_021162.1	Ca_kabuli_chr03	33290922	CC	TT	1946779945
SNP_P4_34578_33323445	NC_021162.1	Ca_kabuli_chr03	33323445	CC	GG	1946779947
SNP_P4_34579_33333343	NC_021162.1	Ca_kabuli_chr03	33333343	AA	CC	1946779949
SNP_P4_34580_33345611	NC_021162.1	Ca_kabuli_chr03	33345611	AA	CC	1946779951
SNP_P4_34581_33393591	NC_021162.1	Ca_kabuli_chr03	33393591	TT	CC	1946779953
SNP_P4_34582_33417231	NC_021162.1	Ca_kabuli_chr03	33417231	AA	TT	1946779955
SNP_P4_34584_33435834	NC_021162.1	Ca_kabuli_chr03	33435834	TT	CC	1946779957
SNP_P4_34585_33447035	NC_021162.1	Ca_kabuli_chr03	33447035	GG	AA	1946779960
SNP_P4_34586_33456123	NC_021162.1	Ca_kabuli_chr03	33456123	CC	TT	1946779962
SNP_P4_34587_33460398	NC_021162.1	Ca_kabuli_chr03	33460398	TT	CC	1946779964
SNP_P4_34588_33460436	NC_021162.1	Ca_kabuli_chr03	33460436	GG	AA	1946779966
SNP_P4_34589_33460540	NC_021162.1	Ca_kabuli_chr03	33460540	GG	AA	1946779969
SNP_P4_34590_33460559	NC_021162.1	Ca_kabuli_chr03	33460559	AA	CC	1946779971
SNP_P4_34591_33460594	NC_021162.1	Ca_kabuli_chr03	33460594	AA	CC	1946779974
SNP_P4_34592_33460646	NC_021162.1	Ca_kabuli_chr03	33460646	TT	GG	1946779976
SNP_P4_34593_33460710	NC_021162.1	Ca_kabuli_chr03	33460710	TT	GG	1946779978
SNP_P4_34594_33466687	NC_021162.1	Ca_kabuli_chr03	33466687	CC	AA	1946779980
SNP_P4_34595_33468780	NC_021162.1	Ca_kabuli_chr03	33468780	CC	TT	1946779982
SNP_P4_34596_33480780	NC_021162.1	Ca_kabuli_chr03	33480780	TT	AA	1946779984
SNP_P4_34598_33540265	NC_021162.1	Ca_kabuli_chr03	33540265	AA	GG	1946779986
SNP_P4_34599_33540276	NC_021162.1	Ca_kabuli_chr03	33540276	AA	GG	1946779988
SNP_P4_34601_33561571	NC_021162.1	Ca_kabuli_chr03	33561571	CC	TT	1946779990
SNP_P4_34603_33579127	NC_021162.1	Ca_kabuli_chr03	33579127	TT	GG	1946779992
SNP_P4_34605_33587349	NC_021162.1	Ca_kabuli_chr03	33587349	CC	TT	1946779994
SNP_P4_34607_33609722	NC_021162.1	Ca_kabuli_chr03	33609722	AA	CC	1946779997
SNP_P4_34608_33609740	NC_021162.1	Ca_kabuli_chr03	33609740	AA	CC	1946780000
SNP_P4_34609_33609751	NC_021162.1	Ca_kabuli_chr03	33609751	TT	AA	1946780002
SNP_P4_34610_33618955	NC_021162.1	Ca_kabuli_chr03	33618955	CC	TT	1946780004
SNP_P4_34611_33626018	NC_021162.1	Ca_kabuli_chr03	33626018	TT	AA	1946780006
SNP_P4_34612_33629825	NC_021162.1	Ca_kabuli_chr03	33629825	GG	TT	1946780008
SNP_P4_34613_33629844	NC_021162.1	Ca_kabuli_chr03	33629844	TT	CC	1946780010

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_34615_33630022	NC_021162.1	Ca_kabuli_chr03	33630022	GG	AA	1946780014
SNP_P4_34616_33630398	NC_021162.1	Ca_kabuli_chr03	33630398	AA	GG	1946780017
SNP_P4_34617_33645952	NC_021162.1	Ca_kabuli_chr03	33645952	AA	TT	1946780019
SNP_P4_34618_33662368	NC_021162.1	Ca_kabuli_chr03	33662368	CC	TT	1946780021
SNP_P4_34619_33682817	NC_021162.1	Ca_kabuli_chr03	33682817	AA	GG	1946780023
SNP_P4_34620_33683491	NC_021162.1	Ca_kabuli_chr03	33683491	AA	CC	1946780025
SNP_P4_34621_33684086	NC_021162.1	Ca_kabuli_chr03	33684086	AA	GG	1946780027
SNP_P4_34622_33693196	NC_021162.1	Ca_kabuli_chr03	33693196	TT	GG	1946780029
SNP_P4_34625_33706514	NC_021162.1	Ca_kabuli_chr03	33706514	AA	CC	1946780031
SNP_P4_34626_33715215	NC_021162.1	Ca_kabuli_chr03	33715215	GG	TT	1946780033
SNP_P4_34627_33719345	NC_021162.1	Ca_kabuli_chr03	33719345	CC	GG	1946780036
SNP_P4_34628_33720681	NC_021162.1	Ca_kabuli_chr03	33720681	AA	GG	1946780038
SNP_P4_34630_33755048	NC_021162.1	Ca_kabuli_chr03	33755048	AA	GG	1946780040
SNP_P4_34631_33762182	NC_021162.1	Ca_kabuli_chr03	33762182	GG	AA	1946780042
SNP_P4_34632_33762538	NC_021162.1	Ca_kabuli_chr03	33762538	TT	CC	1946780044
SNP_P4_34633_33765733	NC_021162.1	Ca_kabuli_chr03	33765733	TT	AA	1946780046
SNP_P4_34634_33766554	NC_021162.1	Ca_kabuli_chr03	33766554	AA	GG	1946780047
SNP_P4_34635_33774925	NC_021162.1	Ca_kabuli_chr03	33774925	AA	GG	1946780049
SNP_P4_34636_33778522	NC_021162.1	Ca_kabuli_chr03	33778522	GG	AA	1946780051
SNP_P4_34637_33779104	NC_021162.1	Ca_kabuli_chr03	33779104	TT	AA	1946780054
SNP_P4_34638_33789971	NC_021162.1	Ca_kabuli_chr03	33789971	AA	GG	1946780056
SNP_P4_34639_33791063	NC_021162.1	Ca_kabuli_chr03	33791063	TT	AA	1946780059
SNP_P4_34640_33792119	NC_021162.1	Ca_kabuli_chr03	33792119	TT	AA	1946780061
SNP_P4_34641_33792129	NC_021162.1	Ca_kabuli_chr03	33792129	AA	CC	1946780063
SNP_P4_34642_33792176	NC_021162.1	Ca_kabuli_chr03	33792176	AA	GG	1946780064
SNP_P4_34643_33792181	NC_021162.1	Ca_kabuli_chr03	33792181	GG	TT	1946780065
SNP_P4_34644_33794702	NC_021162.1	Ca_kabuli_chr03	33794702	AA	GG	1946780066
SNP_P4_34645_33794836	NC_021162.1	Ca_kabuli_chr03	33794836	AA	CC	1946780067
SNP_P4_34646_33794898	NC_021162.1	Ca_kabuli_chr03	33794898	AA	CC	1946780069
SNP_P4_34647_33794901	NC_021162.1	Ca_kabuli_chr03	33794901	TT	CC	1946780071
SNP_P4_34648_33795129	NC_021162.1	Ca_kabuli_chr03	33795129	AA	CC	1946780074
SNP_P4_34649_33795248	NC_021162.1	Ca_kabuli_chr03	33795248	AA	GG	1946780076
SNP_P4_34650_33795329	NC_021162.1	Ca_kabuli_chr03	33795329	TT	CC	1946780078
SNP_P4_34651_33809951	NC_021162.1	Ca_kabuli_chr03	33809951	GG	AA	1946780080
SNP_P4_34652_33813187	NC_021162.1	Ca_kabuli_chr03	33813187	CC	TT	1946780082
SNP_P4_34653_33813206	NC_021162.1	Ca_kabuli_chr03	33813206	AA	GG	1946780084
SNP_P4_34654_33813237	NC_021162.1	Ca_kabuli_chr03	33813237	AA	GG	1946780086
SNP_P4_34655_33813335	NC_021162.1	Ca_kabuli_chr03	33813335	AA	GG	1946780088
SNP_P4_34656_33813368	NC_021162.1	Ca_kabuli_chr03	33813368	GG	CC	1946780090
SNP_P4_34657_33813386	NC_021162.1	Ca_kabuli_chr03	33813386	AA	CC	1946780092
SNP_P4_34658_33820543	NC_021162.1	Ca_kabuli_chr03	33820543	GG	AA	1946780095

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_34661_33827836	NC_021162.1	Ca_kabuli_chr03	33827836	CC	TT	1946780099
SNP_P4_34662_33827947	NC_021162.1	Ca_kabuli_chr03	33827947	AA	CC	1946780101
SNP_P4_34664_33848360	NC_021162.1	Ca_kabuli_chr03	33848360	GG	AA	1946780103
SNP_P4_34666_33883300	NC_021162.1	Ca_kabuli_chr03	33883300	TT	CC	1946780105
SNP_P4_34668_33890041	NC_021162.1	Ca_kabuli_chr03	33890041	AA	GG	1946780107
SNP_P4_34669_33900777	NC_021162.1	Ca_kabuli_chr03	33900777	CC	TT	1946780109
SNP_P4_34670_33900795	NC_021162.1	Ca_kabuli_chr03	33900795	GG	AA	1946780111
SNP_P4_34671_33911029	NC_021162.1	Ca_kabuli_chr03	33911029	GG	AA	1946780113
SNP_P4_34672_33914071	NC_021162.1	Ca_kabuli_chr03	33914071	TT	GG	1946780115
SNP_P4_34673_33932384	NC_021162.1	Ca_kabuli_chr03	33932384	CC	TT	1946780118
SNP_P4_34674_33933209	NC_021162.1	Ca_kabuli_chr03	33933209	AA	GG	1946780120
SNP_P4_34675_33933231	NC_021162.1	Ca_kabuli_chr03	33933231	GG	AA	1946780122
SNP_P4_34676_33952342	NC_021162.1	Ca_kabuli_chr03	33952342	AA	GG	1946780124
SNP_P4_34679_33955439	NC_021162.1	Ca_kabuli_chr03	33955439	TT	CC	1946780126
SNP_P4_34680_33970281	NC_021162.1	Ca_kabuli_chr03	33970281	AA	CC	1946780128
SNP_P4_34682_34012235	NC_021162.1	Ca_kabuli_chr03	34012235	TT	AA	1946780130
SNP_P4_34683_34032814	NC_021162.1	Ca_kabuli_chr03	34032814	CC	TT	1946780132
SNP_P4_34685_34032907	NC_021162.1	Ca_kabuli_chr03	34032907	GG	TT	1946780134
SNP_P4_34686_34032942	NC_021162.1	Ca_kabuli_chr03	34032942	GG	CC	1946780137
SNP_P4_34688_34065648	NC_021162.1	Ca_kabuli_chr03	34065648	CC	TT	1946780139
SNP_P4_34689_34065668	NC_021162.1	Ca_kabuli_chr03	34065668	AA	GG	1946780141
SNP_P4_34690_34065679	NC_021162.1	Ca_kabuli_chr03	34065679	AA	GG	1946780143
SNP_P4_34691_34065690	NC_021162.1	Ca_kabuli_chr03	34065690	TT	AA	1946780145
SNP_P4_34692_34065712	NC_021162.1	Ca_kabuli_chr03	34065712	TT	CC	1946780147
SNP_P4_34693_34065861	NC_021162.1	Ca_kabuli_chr03	34065861	TT	AA	1946780149
SNP_P4_34694_34065891	NC_021162.1	Ca_kabuli_chr03	34065891	TT	GG	1946780152
SNP_P4_34695_34068909	NC_021162.1	Ca_kabuli_chr03	34068909	TT	CC	1946780154
SNP_P4_34696_34068930	NC_021162.1	Ca_kabuli_chr03	34068930	TT	CC	1946780156
SNP_P4_34697_34068953	NC_021162.1	Ca_kabuli_chr03	34068953	CC	AA	1946780158
SNP_P4_34698_34089123	NC_021162.1	Ca_kabuli_chr03	34089123	GG	AA	1946780160
SNP_P4_34699_34109568	NC_021162.1	Ca_kabuli_chr03	34109568	CC	AA	1946780162
SNP_P4_34700_34109570	NC_021162.1	Ca_kabuli_chr03	34109570	TT	AA	1946780164
SNP_P4_34701_34115264	NC_021162.1	Ca_kabuli_chr03	34115264	CC	TT	1946780166
SNP_P4_34703_34130784	NC_021162.1	Ca_kabuli_chr03	34130784	TT	AA	1946780168
SNP_P4_34704_34131847	NC_021162.1	Ca_kabuli_chr03	34131847	AA	GG	1946780170
SNP_P4_34705_34139699	NC_021162.1	Ca_kabuli_chr03	34139699	AA	CC	1946780172
SNP_P4_34706_34139713	NC_021162.1	Ca_kabuli_chr03	34139713	TT	CC	1946780174
SNP_P4_34707_34142796	NC_021162.1	Ca_kabuli_chr03	34142796	CC	TT	1946780177
SNP_P4_34708_34142981	NC_021162.1	Ca_kabuli_chr03	34142981	TT	CC	1946780179
SNP_P4_34709_34143022	NC_021162.1	Ca_kabuli_chr03	34143022	AA	TT	1946780181
SNP_P4_34710_34147207	NC_021162.1	Ca_kabuli_chr03	34147207	TT	GG	1946780183

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_34712_34165840	NC_021162.1	Ca_kabuli_chr03	34165840	AA	CC	1946780187
SNP_P4_34713_34169411	NC_021162.1	Ca_kabuli_chr03	34169411	GG	AA	1946780189
SNP_P4_34714_34169430	NC_021162.1	Ca_kabuli_chr03	34169430	AA	GG	1946780191
SNP_P4_34715_34169871	NC_021162.1	Ca_kabuli_chr03	34169871	GG	AA	1946780193
SNP_P4_34716_34169895	NC_021162.1	Ca_kabuli_chr03	34169895	AA	GG	1946780195
SNP_P4_34717_34169956	NC_021162.1	Ca_kabuli_chr03	34169956	TT	CC	1946780197
SNP_P4_34718_34170253	NC_021162.1	Ca_kabuli_chr03	34170253	GG	AA	1946780199
SNP_P4_34719_34170254	NC_021162.1	Ca_kabuli_chr03	34170254	GG	CC	1946780202
SNP_P4_34720_34189501	NC_021162.1	Ca_kabuli_chr03	34189501	AA	CC	1946780204
SNP_P4_34724_34222000	NC_021162.1	Ca_kabuli_chr03	34222000	GG	AA	1946780206
SNP_P4_34725_34225550	NC_021162.1	Ca_kabuli_chr03	34225550	AA	GG	1946780208
SNP_P4_34726_34227429	NC_021162.1	Ca_kabuli_chr03	34227429	CC	AA	1946780210
SNP_P4_34729_34284596	NC_021162.1	Ca_kabuli_chr03	34284596	GG	CC	1946780212
SNP_P4_34730_34292181	NC_021162.1	Ca_kabuli_chr03	34292181	AA	GG	1946780214
SNP_P4_34731_34292279	NC_021162.1	Ca_kabuli_chr03	34292279	AA	GG	1946780216
SNP_P4_34732_34298750	NC_021162.1	Ca_kabuli_chr03	34298750	AA	TT	1946780218
SNP_P4_34733_34304115	NC_021162.1	Ca_kabuli_chr03	34304115	AA	GG	1946780220
SNP_P4_34735_34340892	NC_021162.1	Ca_kabuli_chr03	34340892	AA	CC	1946780222
SNP_P4_34736_34352662	NC_021162.1	Ca_kabuli_chr03	34352662	CC	GG	1946780224
SNP_P4_34737_34361314	NC_021162.1	Ca_kabuli_chr03	34361314	GG	AA	1946780226
SNP_P4_34738_34364957	NC_021162.1	Ca_kabuli_chr03	34364957	AA	CC	1946780228
SNP_P4_34739_34367367	NC_021162.1	Ca_kabuli_chr03	34367367	AA	TT	1946780230
SNP_P4_34742_34456717	NC_021162.1	Ca_kabuli_chr03	34456717	TT	CC	1946780232
SNP_P4_34743_34460085	NC_021162.1	Ca_kabuli_chr03	34460085	AA	TT	1946780234
SNP_P4_34745_34490538	NC_021162.1	Ca_kabuli_chr03	34490538	CC	TT	1946780236
SNP_P4_34746_34492227	NC_021162.1	Ca_kabuli_chr03	34492227	GG	CC	1946780238
SNP_P4_34747_34538841	NC_021162.1	Ca_kabuli_chr03	34538841	TT	AA	1946780240
SNP_P4_34748_34538864	NC_021162.1	Ca_kabuli_chr03	34538864	CC	TT	1946780242
SNP_P4_34749_34538865	NC_021162.1	Ca_kabuli_chr03	34538865	AA	CC	1946780244
SNP_P4_34750_34538891	NC_021162.1	Ca_kabuli_chr03	34538891	CC	TT	1946780246
SNP_P4_34751_34538914	NC_021162.1	Ca_kabuli_chr03	34538914	GG	TT	1946780248
SNP_P4_34752_34538918	NC_021162.1	Ca_kabuli_chr03	34538918	CC	TT	1946780250
SNP_P4_34753_34540293	NC_021162.1	Ca_kabuli_chr03	34540293	TT	CC	1946780252
SNP_P4_34754_34540471	NC_021162.1	Ca_kabuli_chr03	34540471	AA	CC	1946780254
SNP_P4_34755_34540475	NC_021162.1	Ca_kabuli_chr03	34540475	GG	AA	1946780257
SNP_P4_34756_34578005	NC_021162.1	Ca_kabuli_chr03	34578005	CC	TT	1946780259
SNP_P4_34758_34601360	NC_021162.1	Ca_kabuli_chr03	34601360	AA	CC	1946780261
SNP_P4_34759_34601388	NC_021162.1	Ca_kabuli_chr03	34601388	GG	CC	1946780263
SNP_P4_34760_34601468	NC_021162.1	Ca_kabuli_chr03	34601468	AA	TT	1946780265
SNP_P4_34761_34601492	NC_021162.1	Ca_kabuli_chr03	34601492	TT	CC	1946780267
SNP_P4_34762_34601507	NC_021162.1	Ca_kabuli_chr03	34601507	CC	AA	1946780269

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_34764_34601661	NC_021162.1	Ca_kabuli_chr03	34601661	CC	AA	1946780273
SNP_P4_34765_34601714	NC_021162.1	Ca_kabuli_chr03	34601714	AA	TT	1946780275
SNP_P4_34766_34601733	NC_021162.1	Ca_kabuli_chr03	34601733	AA	GG	1946780278
SNP_P4_34767_34688040	NC_021162.1	Ca_kabuli_chr03	34688040	AA	CC	1946780280
SNP_P4_34768_34712695	NC_021162.1	Ca_kabuli_chr03	34712695	TT	CC	1946780283
SNP_P4_34769_34725914	NC_021162.1	Ca_kabuli_chr03	34725914	TT	CC	1946780286
SNP_P4_34770_34745453	NC_021162.1	Ca_kabuli_chr03	34745453	AA	GG	1946780288
SNP_P4_34771_34748303	NC_021162.1	Ca_kabuli_chr03	34748303	AA	TT	1946780290
SNP_P4_34772_34788220	NC_021162.1	Ca_kabuli_chr03	34788220	GG	TT	1946780292
SNP_P4_34774_34820079	NC_021162.1	Ca_kabuli_chr03	34820079	TT	AA	1946780294
SNP_P4_34776_34827852	NC_021162.1	Ca_kabuli_chr03	34827852	CC	TT	1946780296
SNP_P4_34778_34881778	NC_021162.1	Ca_kabuli_chr03	34881778	TT	CC	1946780299
SNP_P4_34779_34895710	NC_021162.1	Ca_kabuli_chr03	34895710	AA	GG	1946780301
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SNP_P4_34782_35004001	NC_021162.1	Ca_kabuli_chr03	35004001	CC	GG	1946780305
SNP_P4_34784_35009318	NC_021162.1	Ca_kabuli_chr03	35009318	CC	AA	1946780307
SNP_P4_34785_35009326	NC_021162.1	Ca_kabuli_chr03	35009326	TT	CC	1946780309
SNP_P4_34786_35009340	NC_021162.1	Ca_kabuli_chr03	35009340	TT	CC	1946780311
SNP_P4_34789_35063117	NC_021162.1	Ca_kabuli_chr03	35063117	TT	CC	1946780313
SNP_P4_34790_35065122	NC_021162.1	Ca_kabuli_chr03	35065122	TT	CC	1946780315
SNP_P4_34791_35075804	NC_021162.1	Ca_kabuli_chr03	35075804	TT	CC	1946780316
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SNP_P4_34794_35153792	NC_021162.1	Ca_kabuli_chr03	35153792	CC	TT	1946780318
SNP_P4_34795_35162681	NC_021162.1	Ca_kabuli_chr03	35162681	AA	CC	1946780319
SNP_P4_34796_35162682	NC_021162.1	Ca_kabuli_chr03	35162682	TT	CC	1946780320
SNP_P4_34799_35177218	NC_021162.1	Ca_kabuli_chr03	35177218	AA	GG	1946780322
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SNP_P4_34802_35221267	NC_021162.1	Ca_kabuli_chr03	35221267	AA	CC	1946780327
SNP_P4_34803_35229674	NC_021162.1	Ca_kabuli_chr03	35229674	CC	TT	1946780329
SNP_P4_34804_35230097	NC_021162.1	Ca_kabuli_chr03	35230097	CC	TT	1946780331
SNP_P4_34806_35253047	NC_021162.1	Ca_kabuli_chr03	35253047	AA	GG	1946780333
SNP_P4_34807_35253918	NC_021162.1	Ca_kabuli_chr03	35253918	GG	AA	1946780334
SNP_P4_34808_35253988	NC_021162.1	Ca_kabuli_chr03	35253988	TT	CC	1946780336
SNP_P4_34809_35254436	NC_021162.1	Ca_kabuli_chr03	35254436	GG	TT	1946780338
SNP_P4_34812_35267279	NC_021162.1	Ca_kabuli_chr03	35267279	AA	GG	1946780340
SNP_P4_34813_35277713	NC_021162.1	Ca_kabuli_chr03	35277713	TT	CC	1946780343
SNP_P4_34814_35301868	NC_021162.1	Ca_kabuli_chr03	35301868	AA	TT	1946780345
SNP_P4_34816_35310630	NC_021162.1	Ca_kabuli_chr03	35310630	GG	TT	1946780347
SNP_P4_34817_35313324	NC_021162.1	Ca_kabuli_chr03	35313324	GG	AA	1946780349
SNP_P4_34818_35314186	NC_021162.1	Ca_kabuli_chr03	35314186	AA	GG	1946780351
SNP_P4_34820_35347637	NC_021162.1	Ca_kabuli_chr03	35347637	TT	AA	1946780353

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_34822_35378745	NC_021162.1	Ca_kabuli_chr03	35378745	GG	AA	1946780357
SNP_P4_34823_35399495	NC_021162.1	Ca_kabuli_chr03	35399495	GG	AA	1946780359
SNP_P4_34824_35423673	NC_021162.1	Ca_kabuli_chr03	35423673	CC	GG	1946780361
SNP_P4_34825_35424106	NC_021162.1	Ca_kabuli_chr03	35424106	AA	GG	1946780363
SNP_P4_34827_35446184	NC_021162.1	Ca_kabuli_chr03	35446184	TT	CC	1946780365
SNP_P4_34828_35452602	NC_021162.1	Ca_kabuli_chr03	35452602	CC	TT	1946780367
SNP_P4_34830_35497174	NC_021162.1	Ca_kabuli_chr03	35497174	TT	AA	1946780369
SNP_P4_34831_35514219	NC_021162.1	Ca_kabuli_chr03	35514219	GG	AA	1946780371
SNP_P4_34832_35526402	NC_021162.1	Ca_kabuli_chr03	35526402	GG	AA	1946780373
SNP_P4_34833_35527392	NC_021162.1	Ca_kabuli_chr03	35527392	CC	TT	1946780375
SNP_P4_34834_35527867	NC_021162.1	Ca_kabuli_chr03	35527867	AA	CC	1946780377
SNP_P4_34836_35548725	NC_021162.1	Ca_kabuli_chr03	35548725	AA	TT	1946780379
SNP_P4_34837_35582986	NC_021162.1	Ca_kabuli_chr03	35582986	TT	CC	1946780381
SNP_P4_34839_35586470	NC_021162.1	Ca_kabuli_chr03	35586470	TT	CC	1946780383
SNP_P4_34840_35610245	NC_021162.1	Ca_kabuli_chr03	35610245	TT	AA	1946780385
SNP_P4_34841_35626843	NC_021162.1	Ca_kabuli_chr03	35626843	AA	GG	1946780387
SNP_P4_34842_35627175	NC_021162.1	Ca_kabuli_chr03	35627175	CC	TT	1946780389
SNP_P4_34844_35631086	NC_021162.1	Ca_kabuli_chr03	35631086	TT	CC	1946780391
SNP_P4_34845_35652556	NC_021162.1	Ca_kabuli_chr03	35652556	AA	GG	1946780393
SNP_P4_34846_35654875	NC_021162.1	Ca_kabuli_chr03	35654875	GG	AA	1946780396
SNP_P4_34848_35662224	NC_021162.1	Ca_kabuli_chr03	35662224	AA	TT	1946780398
SNP_P4_34853_35702671	NC_021162.1	Ca_kabuli_chr03	35702671	TT	CC	1946780400
SNP_P4_34854_35702895	NC_021162.1	Ca_kabuli_chr03	35702895	AA	TT	1946780402
SNP_P4_34856_35732732	NC_021162.1	Ca_kabuli_chr03	35732732	GG	AA	1946780404
SNP_P4_34857_35733263	NC_021162.1	Ca_kabuli_chr03	35733263	TT	AA	1946780406
SNP_P4_34858_35743164	NC_021162.1	Ca_kabuli_chr03	35743164	TT	CC	1946780408
SNP_P4_34862_35799492	NC_021162.1	Ca_kabuli_chr03	35799492	AA	CC	1946780410
SNP_P4_34863_35799493	NC_021162.1	Ca_kabuli_chr03	35799493	TT	AA	1946780412
SNP_P4_34864_35800151	NC_021162.1	Ca_kabuli_chr03	35800151	AA	GG	1946780414
SNP_P4_34865_35811476	NC_021162.1	Ca_kabuli_chr03	35811476	AA	GG	1946780416
SNP_P4_34866_35830255	NC_021162.1	Ca_kabuli_chr03	35830255	CC	TT	1946780418
SNP_P4_34867_35830257	NC_021162.1	Ca_kabuli_chr03	35830257	TT	CC	1946780420
SNP_P4_34868_35830260	NC_021162.1	Ca_kabuli_chr03	35830260	GG	AA	1946780422
SNP_P4_34869_35830261	NC_021162.1	Ca_kabuli_chr03	35830261	TT	AA	1946780425
SNP_P4_34876_35879083	NC_021162.1	Ca_kabuli_chr03	35879083	AA	GG	1946780427
SNP_P4_34878_35897330	NC_021162.1	Ca_kabuli_chr03	35897330	GG	AA	1946780429
SNP_P4_34879_35898598	NC_021162.1	Ca_kabuli_chr03	35898598	AA	GG	1946780431
SNP_P4_34880_35916908	NC_021162.1	Ca_kabuli_chr03	35916908	AA	GG	1946780433
SNP_P4_34881_35918420	NC_021162.1	Ca_kabuli_chr03	35918420	GG	AA	1946780435
SNP_P4_34882_35918709	NC_021162.1	Ca_kabuli_chr03	35918709	AA	TT	1946780437
SNP_P4_34883_35943462	NC_021162.1	Ca_kabuli_chr03	35943462	TT	CC	1946780439

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_34885_35946287	NC_021162.1	Ca_kabuli_chr03	35946287	CC	TT	1946780443
SNP_P4_34887_35952123	NC_021162.1	Ca_kabuli_chr03	35952123	CC	TT	1946780445
SNP_P4_34888_35952128	NC_021162.1	Ca_kabuli_chr03	35952128	CC	TT	1946780447
SNP_P4_34890_35952175	NC_021162.1	Ca_kabuli_chr03	35952175	GG	AA	1946780449
SNP_P4_34891_35952202	NC_021162.1	Ca_kabuli_chr03	35952202	GG	AA	1946780451
SNP_P4_34892_35952204	NC_021162.1	Ca_kabuli_chr03	35952204	CC	TT	1946780454
SNP_P4_34893_35952206	NC_021162.1	Ca_kabuli_chr03	35952206	CC	TT	1946780456
SNP_P4_34894_35952454	NC_021162.1	Ca_kabuli_chr03	35952454	AA	CC	1946780458
SNP_P4_34895_35954174	NC_021162.1	Ca_kabuli_chr03	35954174	AA	GG	1946780459
SNP_P4_34897_35954221	NC_021162.1	Ca_kabuli_chr03	35954221	TT	CC	1946780461
SNP_P4_34898_35955461	NC_021162.1	Ca_kabuli_chr03	35955461	GG	AA	1946780463
SNP_P4_34900_35955491	NC_021162.1	Ca_kabuli_chr03	35955491	TT	AA	1946780465
SNP_P4_34902_35959893	NC_021162.1	Ca_kabuli_chr03	35959893	CC	TT	1946780467
SNP_P4_34905_35960018	NC_021162.1	Ca_kabuli_chr03	35960018	AA	TT	1946780469
SNP_P4_34906_35962566	NC_021162.1	Ca_kabuli_chr03	35962566	GG	CC	1946780471
SNP_P4_34907_35962677	NC_021162.1	Ca_kabuli_chr03	35962677	TT	GG	1946780473
SNP_P4_34908_35962678	NC_021162.1	Ca_kabuli_chr03	35962678	AA	TT	1946780474
SNP_P4_34909_35963529	NC_021162.1	Ca_kabuli_chr03	35963529	GG	AA	1946780476
SNP_P4_34910_35963558	NC_021162.1	Ca_kabuli_chr03	35963558	TT	GG	1946780479
SNP_P4_34911_35963582	NC_021162.1	Ca_kabuli_chr03	35963582	TT	AA	1946780481
SNP_P4_34912_35963589	NC_021162.1	Ca_kabuli_chr03	35963589	CC	TT	1946780483
SNP_P4_34915_35965476	NC_021162.1	Ca_kabuli_chr03	35965476	AA	GG	1946780485
SNP_P4_34917_35968932	NC_021162.1	Ca_kabuli_chr03	35968932	AA	GG	1946780487
SNP_P4_34918_35970016	NC_021162.1	Ca_kabuli_chr03	35970016	CC	TT	1946780489
SNP_P4_34919_35976903	NC_021162.1	Ca_kabuli_chr03	35976903	AA	CC	1946780491
SNP_P4_34920_35978828	NC_021162.1	Ca_kabuli_chr03	35978828	TT	CC	1946780493
SNP_P4_34922_35978997	NC_021162.1	Ca_kabuli_chr03	35978997	AA	GG	1946780495
SNP_P4_34923_35979023	NC_021162.1	Ca_kabuli_chr03	35979023	GG	TT	1946780497
SNP_P4_34924_35979094	NC_021162.1	Ca_kabuli_chr03	35979094	GG	AA	1946780499
SNP_P4_34925_35979121	NC_021162.1	Ca_kabuli_chr03	35979121	GG	AA	1946780501
SNP_P4_34926_35979143	NC_021162.1	Ca_kabuli_chr03	35979143	AA	GG	1946780504
SNP_P4_34927_35979150	NC_021162.1	Ca_kabuli_chr03	35979150	AA	GG	1946780506
SNP_P4_34930_35980342	NC_021162.1	Ca_kabuli_chr03	35980342	CC	TT	1946780508
SNP_P4_34931_35980345	NC_021162.1	Ca_kabuli_chr03	35980345	CC	TT	1946780510
SNP_P4_34932_35980380	NC_021162.1	Ca_kabuli_chr03	35980380	GG	AA	1946780512
SNP_P4_34933_35980385	NC_021162.1	Ca_kabuli_chr03	35980385	GG	AA	1946780514
SNP_P4_34934_35980423	NC_021162.1	Ca_kabuli_chr03	35980423	AA	GG	1946780516
SNP_P4_34935_35980432	NC_021162.1	Ca_kabuli_chr03	35980432	AA	GG	1946780518
SNP_P4_34937_35980645	NC_021162.1	Ca_kabuli_chr03	35980645	AA	GG	1946780520
SNP_P4_34938_35981209	NC_021162.1	Ca_kabuli_chr03	35981209	CC	TT	1946780522
SNP_P4_34939_35981211	NC_021162.1	Ca_kabuli_chr03	35981211	GG	AA	1946780524

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_34944_35986669	NC_021162.1	Ca_kabuli_chr03	35986669	CC	TT	1946780528
SNP_P4_34945_35986828	NC_021162.1	Ca_kabuli_chr03	35986828	AA	GG	1946780530
SNP_P4_34946_35990479	NC_021162.1	Ca_kabuli_chr03	35990479	AA	CC	1946780532
SNP_P4_34947_35992162	NC_021162.1	Ca_kabuli_chr03	35992162	AA	CC	1946780534
SNP_P4_34948_35992742	NC_021162.1	Ca_kabuli_chr03	35992742	GG	AA	1946780536
SNP_P4_34950_35992994	NC_021162.1	Ca_kabuli_chr03	35992994	AA	GG	1946780538
SNP_P4_34951_35993095	NC_021162.1	Ca_kabuli_chr03	35993095	TT	CC	1946780540
SNP_P4_34952_35993374	NC_021162.1	Ca_kabuli_chr03	35993374	AA	GG	1946780542
SNP_P4_34953_35993388	NC_021162.1	Ca_kabuli_chr03	35993388	GG	AA	1946780544
SNP_P4_34955_35994108	NC_021162.1	Ca_kabuli_chr03	35994108	AA	GG	1946780546
SNP_P4_34956_35994344	NC_021162.1	Ca_kabuli_chr03	35994344	CC	TT	1946780548
SNP_P4_34957_35994372	NC_021162.1	Ca_kabuli_chr03	35994372	CC	TT	1946780550
SNP_P4_34959_35995983	NC_021162.1	Ca_kabuli_chr03	35995983	GG	TT	1946780552
SNP_P4_34960_35997081	NC_021162.1	Ca_kabuli_chr03	35997081	GG	CC	1946780554
SNP_P4_34961_35998445	NC_021162.1	Ca_kabuli_chr03	35998445	GG	TT	1946780556
SNP_P4_34962_35998502	NC_021162.1	Ca_kabuli_chr03	35998502	TT	AA	1946780558
SNP_P4_34963_35998806	NC_021162.1	Ca_kabuli_chr03	35998806	TT	CC	1946780560
SNP_P4_34964_35999492	NC_021162.1	Ca_kabuli_chr03	35999492	GG	AA	1946780562
SNP_P4_34965_35999876	NC_021162.1	Ca_kabuli_chr03	35999876	GG	AA	1946780564
SNP_P4_34968_36000214	NC_021162.1	Ca_kabuli_chr03	36000214	GG	AA	1946780566
SNP_P4_34969_36000275	NC_021162.1	Ca_kabuli_chr03	36000275	GG	TT	1946780568
SNP_P4_34970_36000657	NC_021162.1	Ca_kabuli_chr03	36000657	CC	AA	1946780571
SNP_P4_34971_36002733	NC_021162.1	Ca_kabuli_chr03	36002733	TT	CC	1946780574
SNP_P4_34972_36002796	NC_021162.1	Ca_kabuli_chr03	36002796	TT	CC	1946780576
SNP_P4_34973_36002931	NC_021162.1	Ca_kabuli_chr03	36002931	TT	CC	1946780578
SNP_P4_34974_36003029	NC_021162.1	Ca_kabuli_chr03	36003029	GG	TT	1946780580
SNP_P4_34975_36003060	NC_021162.1	Ca_kabuli_chr03	36003060	GG	AA	1946780582
SNP_P4_34977_36006552	NC_021162.1	Ca_kabuli_chr03	36006552	CC	AA	1946780584
SNP_P4_34978_36009677	NC_021162.1	Ca_kabuli_chr03	36009677	TT	AA	1946780586
SNP_P4_34979_36009787	NC_021162.1	Ca_kabuli_chr03	36009787	CC	TT	1946780589
SNP_P4_34980_36009983	NC_021162.1	Ca_kabuli_chr03	36009983	CC	GG	1946780591
SNP_P4_34981_36013668	NC_021162.1	Ca_kabuli_chr03	36013668	AA	TT	1946780593
SNP_P4_34982_36013673	NC_021162.1	Ca_kabuli_chr03	36013673	AA	TT	1946780595
SNP_P4_34983_36013713	NC_021162.1	Ca_kabuli_chr03	36013713	AA	GG	1946780597
SNP_P4_34984_36013716	NC_021162.1	Ca_kabuli_chr03	36013716	AA	GG	1946780599
SNP_P4_34985_36013746	NC_021162.1	Ca_kabuli_chr03	36013746	TT	AA	1946780601
SNP_P4_34986_36013761	NC_021162.1	Ca_kabuli_chr03	36013761	AA	GG	1946780604
SNP_P4_34987_36014537	NC_021162.1	Ca_kabuli_chr03	36014537	CC	TT	1946780606
SNP_P4_34988_36015225	NC_021162.1	Ca_kabuli_chr03	36015225	CC	TT	1946780608
SNP_P4_34989_36015701	NC_021162.1	Ca_kabuli_chr03	36015701	AA	GG	1946780610
SNP_P4_34990_36015712	NC_021162.1	Ca_kabuli_chr03	36015712	TT	GG	1946780612

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_34993_36017310	NC_021162.1	Ca_kabuli_chr03	36017310	GG	AA	1946780616
SNP_P4_34994_36018140	NC_021162.1	Ca_kabuli_chr03	36018140	GG	CC	1946780618
SNP_P4_34995_36018472	NC_021162.1	Ca_kabuli_chr03	36018472	AA	CC	1946780620
SNP_P4_34997_36019556	NC_021162.1	Ca_kabuli_chr03	36019556	AA	TT	1946780623
SNP_P4_34999_36019982	NC_021162.1	Ca_kabuli_chr03	36019982	GG	AA	1946780625
SNP_P4_35000_36020957	NC_021162.1	Ca_kabuli_chr03	36020957	GG	AA	1946780627
SNP_P4_35001_36021256	NC_021162.1	Ca_kabuli_chr03	36021256	CC	TT	1946780629
SNP_P4_35002_36021264	NC_021162.1	Ca_kabuli_chr03	36021264	TT	AA	1946780631
SNP_P4_35003_36021664	NC_021162.1	Ca_kabuli_chr03	36021664	GG	AA	1946780633
SNP_P4_35004_36021723	NC_021162.1	Ca_kabuli_chr03	36021723	TT	CC	1946780635
SNP_P4_35005_36021789	NC_021162.1	Ca_kabuli_chr03	36021789	GG	AA	1946780637
SNP_P4_35006_36021950	NC_021162.1	Ca_kabuli_chr03	36021950	TT	CC	1946780640
SNP_P4_35007_36021980	NC_021162.1	Ca_kabuli_chr03	36021980	AA	CC	1946780642
SNP_P4_35008_36021999	NC_021162.1	Ca_kabuli_chr03	36021999	AA	GG	1946780644
SNP_P4_35009_36022004	NC_021162.1	Ca_kabuli_chr03	36022004	GG	AA	1946780646
SNP_P4_35010_36022015	NC_021162.1	Ca_kabuli_chr03	36022015	TT	GG	1946780648
SNP_P4_35011_36022022	NC_021162.1	Ca_kabuli_chr03	36022022	AA	GG	1946780650
SNP_P4_35012_36022029	NC_021162.1	Ca_kabuli_chr03	36022029	CC	TT	1946780652
SNP_P4_35013_36022030	NC_021162.1	Ca_kabuli_chr03	36022030	TT	CC	1946780654
SNP_P4_35014_36022049	NC_021162.1	Ca_kabuli_chr03	36022049	TT	AA	1946780656
SNP_P4_35017_36022705	NC_021162.1	Ca_kabuli_chr03	36022705	AA	TT	1946780658
SNP_P4_35018_36024014	NC_021162.1	Ca_kabuli_chr03	36024014	AA	GG	1946780661
SNP_P4_35019_36024079	NC_021162.1	Ca_kabuli_chr03	36024079	AA	GG	1946780663
SNP_P4_35020_36024355	NC_021162.1	Ca_kabuli_chr03	36024355	CC	AA	1946780665
SNP_P4_35021_36025544	NC_021162.1	Ca_kabuli_chr03	36025544	GG	AA	1946780667
SNP_P4_35022_36025756	NC_021162.1	Ca_kabuli_chr03	36025756	GG	AA	1946780669
SNP_P4_35023_36025769	NC_021162.1	Ca_kabuli_chr03	36025769	AA	GG	1946780671
SNP_P4_35025_36025846	NC_021162.1	Ca_kabuli_chr03	36025846	CC	TT	1946780673
SNP_P4_35026_36025858	NC_021162.1	Ca_kabuli_chr03	36025858	TT	CC	1946780675
SNP_P4_35027_36025902	NC_021162.1	Ca_kabuli_chr03	36025902	GG	AA	1946780677
SNP_P4_35028_36026724	NC_021162.1	Ca_kabuli_chr03	36026724	CC	TT	1946780680
SNP_P4_35029_36026994	NC_021162.1	Ca_kabuli_chr03	36026994	GG	AA	1946780682
SNP_P4_35030_36027019	NC_021162.1	Ca_kabuli_chr03	36027019	TT	CC	1946780684
SNP_P4_35031_36027044	NC_021162.1	Ca_kabuli_chr03	36027044	CC	AA	1946780686
SNP_P4_35032_36027150	NC_021162.1	Ca_kabuli_chr03	36027150	CC	GG	1946780688
SNP_P4_35033_36027160	NC_021162.1	Ca_kabuli_chr03	36027160	TT	AA	1946780690
SNP_P4_35035_36027611	NC_021162.1	Ca_kabuli_chr03	36027611	TT	CC	1946780692
SNP_P4_35036_36027646	NC_021162.1	Ca_kabuli_chr03	36027646	TT	GG	1946780694
SNP_P4_35037_36027652	NC_021162.1	Ca_kabuli_chr03	36027652	TT	CC	1946780696
SNP_P4_35038_36028091	NC_021162.1	Ca_kabuli_chr03	36028091	AA	CC	1946780698
SNP_P4_35040_36028224	NC_021162.1	Ca_kabuli_chr03	36028224	GG	AA	1946780700

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_35041_36028245	NC_021162.1	Ca_kabuli_chr03	36028245	AA	GG	1946780702
SNP_P4_35043_36031967	NC_021162.1	Ca_kabuli_chr03	36031967	GG	AA	1946780705
SNP_P4_35046_36033176	NC_021162.1	Ca_kabuli_chr03	36033176	CC	TT	1946780707
SNP_P4_35048_36034030	NC_021162.1	Ca_kabuli_chr03	36034030	GG	AA	1946780709
SNP_P4_35051_36038072	NC_021162.1	Ca_kabuli_chr03	36038072	TT	CC	1946780711
SNP_P4_35053_36040036	NC_021162.1	Ca_kabuli_chr03	36040036	GG	AA	1946780713
SNP_P4_35057_36041210	NC_021162.1	Ca_kabuli_chr03	36041210	TT	CC	1946780715
SNP_P4_35058_36041235	NC_021162.1	Ca_kabuli_chr03	36041235	TT	AA	1946780717
SNP_P4_35059_36041460	NC_021162.1	Ca_kabuli_chr03	36041460	GG	AA	1946780719
SNP_P4_35060_36041475	NC_021162.1	Ca_kabuli_chr03	36041475	TT	CC	1946780721
SNP_P4_35061_36041503	NC_021162.1	Ca_kabuli_chr03	36041503	AA	GG	1946780723
SNP_P4_35062_36041549	NC_021162.1	Ca_kabuli_chr03	36041549	TT	CC	1946780725
SNP_P4_35064_36041776	NC_021162.1	Ca_kabuli_chr03	36041776	TT	CC	1946780727
SNP_P4_35065_36041790	NC_021162.1	Ca_kabuli_chr03	36041790	AA	GG	1946780729
SNP_P4_35066_36041914	NC_021162.1	Ca_kabuli_chr03	36041914	CC	TT	1946780731
SNP_P4_35067_36042197	NC_021162.1	Ca_kabuli_chr03	36042197	TT	CC	1946780733
SNP_P4_35068_36042210	NC_021162.1	Ca_kabuli_chr03	36042210	CC	AA	1946780735
SNP_P4_35069_36042503	NC_021162.1	Ca_kabuli_chr03	36042503	TT	CC	1946780737
SNP_P4_35071_36042588	NC_021162.1	Ca_kabuli_chr03	36042588	AA	CC	1946780739
SNP_P4_35072_36042611	NC_021162.1	Ca_kabuli_chr03	36042611	AA	GG	1946780741
SNP_P4_35073_36042613	NC_021162.1	Ca_kabuli_chr03	36042613	GG	CC	1946780743
SNP_P4_35074_36042931	NC_021162.1	Ca_kabuli_chr03	36042931	AA	GG	1946780745
SNP_P4_35075_36042938	NC_021162.1	Ca_kabuli_chr03	36042938	AA	GG	1946780747
SNP_P4_35076_36042945	NC_021162.1	Ca_kabuli_chr03	36042945	CC	TT	1946780749
SNP_P4_35077_36042979	NC_021162.1	Ca_kabuli_chr03	36042979	CC	AA	1946780751
SNP_P4_35078_36042983	NC_021162.1	Ca_kabuli_chr03	36042983	GG	AA	1946780753
SNP_P4_35079_36042998	NC_021162.1	Ca_kabuli_chr03	36042998	AA	TT	1946780755
SNP_P4_35080_36043058	NC_021162.1	Ca_kabuli_chr03	36043058	CC	GG	1946780758
SNP_P4_35081_36043369	NC_021162.1	Ca_kabuli_chr03	36043369	TT	AA	1946780760
SNP_P4_35082_36043569	NC_021162.1	Ca_kabuli_chr03	36043569	TT	GG	1946780762
SNP_P4_35083_36043667	NC_021162.1	Ca_kabuli_chr03	36043667	GG	AA	1946780764
SNP_P4_35084_36043716	NC_021162.1	Ca_kabuli_chr03	36043716	CC	TT	1946780766
SNP_P4_35085_36043756	NC_021162.1	Ca_kabuli_chr03	36043756	TT	CC	1946780768
SNP_P4_35086_36043826	NC_021162.1	Ca_kabuli_chr03	36043826	TT	AA	1946780770
SNP_P4_35087_36043938	NC_021162.1	Ca_kabuli_chr03	36043938	TT	CC	1946780772
SNP_P4_35088_36043982	NC_021162.1	Ca_kabuli_chr03	36043982	TT	AA	1946780774
SNP_P4_35089_36044031	NC_021162.1	Ca_kabuli_chr03	36044031	AA	GG	1946780776
SNP_P4_35090_36044063	NC_021162.1	Ca_kabuli_chr03	36044063	GG	AA	1946780778
SNP_P4_35091_36044117	NC_021162.1	Ca_kabuli_chr03	36044117	GG	AA	1946780780
SNP_P4_35092_36044163	NC_021162.1	Ca_kabuli_chr03	36044163	CC	TT	1946780782
SNP_P4_35093_36044235	NC_021162.1	Ca_kabuli_chr03	36044235	GG	AA	1946780784
SNP_P4_35094_36044244	NC_021162.1	Ca_kabuli_chr03	36044244	AA	GG	1946780786

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_35096_36044296	NC_021162.1	Ca_kabuli_chr03	36044296	CC	GG	1946780790
SNP_P4_35098_36044353	NC_021162.1	Ca_kabuli_chr03	36044353	GG	AA	1946780792
SNP_P4_35099_36044440	NC_021162.1	Ca_kabuli_chr03	36044440	AA	GG	1946780794
SNP_P4_35100_36044503	NC_021162.1	Ca_kabuli_chr03	36044503	TT	CC	1946780796
SNP_P4_35102_36046495	NC_021162.1	Ca_kabuli_chr03	36046495	AA	TT	1946780798
SNP_P4_35103_36048032	NC_021162.1	Ca_kabuli_chr03	36048032	TT	CC	1946780800
SNP_P4_35104_36048188	NC_021162.1	Ca_kabuli_chr03	36048188	AA	GG	1946780802
SNP_P4_35105_36048363	NC_021162.1	Ca_kabuli_chr03	36048363	CC	GG	1946780804
SNP_P4_35106_36050049	NC_021162.1	Ca_kabuli_chr03	36050049	AA	CC	1946780806
SNP_P4_35107_36050259	NC_021162.1	Ca_kabuli_chr03	36050259	TT	GG	1946780808
SNP_P4_35108_36050319	NC_021162.1	Ca_kabuli_chr03	36050319	TT	CC	1946780810
SNP_P4_35109_36050860	NC_021162.1	Ca_kabuli_chr03	36050860	CC	TT	1946780812
SNP_P4_35110_36051339	NC_021162.1	Ca_kabuli_chr03	36051339	AA	CC	1946780814
SNP_P4_35111_36051374	NC_021162.1	Ca_kabuli_chr03	36051374	CC	AA	1946780816
SNP_P4_35112_36051385	NC_021162.1	Ca_kabuli_chr03	36051385	AA	TT	1946780818
SNP_P4_35113_36051510	NC_021162.1	Ca_kabuli_chr03	36051510	AA	GG	1946780820
SNP_P4_35114_36051570	NC_021162.1	Ca_kabuli_chr03	36051570	TT	CC	1946780822
SNP_P4_35115_36051575	NC_021162.1	Ca_kabuli_chr03	36051575	AA	GG	1946780824
SNP_P4_35116_36051649	NC_021162.1	Ca_kabuli_chr03	36051649	GG	AA	1946780826
SNP_P4_35117_36052606	NC_021162.1	Ca_kabuli_chr03	36052606	CC	TT	1946780828
SNP_P4_35120_36052900	NC_021162.1	Ca_kabuli_chr03	36052900	GG	AA	1946780830
SNP_P4_35121_36053008	NC_021162.1	Ca_kabuli_chr03	36053008	AA	TT	1946780832
SNP_P4_35122_36053737	NC_021162.1	Ca_kabuli_chr03	36053737	GG	AA	1946780834
SNP_P4_35123_36053825	NC_021162.1	Ca_kabuli_chr03	36053825	CC	GG	1946780836
SNP_P4_35124_36059825	NC_021162.1	Ca_kabuli_chr03	36059825	AA	GG	1946780838
SNP_P4_35125_36065217	NC_021162.1	Ca_kabuli_chr03	36065217	GG	TT	1946780840
SNP_P4_35126_36065341	NC_021162.1	Ca_kabuli_chr03	36065341	AA	GG	1946780842
SNP_P4_35127_36065538	NC_021162.1	Ca_kabuli_chr03	36065538	CC	AA	1946780844
SNP_P4_35128_36067151	NC_021162.1	Ca_kabuli_chr03	36067151	AA	GG	1946780846
SNP_P4_35131_36071755	NC_021162.1	Ca_kabuli_chr03	36071755	CC	TT	1946780848
SNP_P4_35132_36074417	NC_021162.1	Ca_kabuli_chr03	36074417	TT	CC	1946780850
SNP_P4_35133_36074420	NC_021162.1	Ca_kabuli_chr03	36074420	TT	CC	1946780853
SNP_P4_35134_36075285	NC_021162.1	Ca_kabuli_chr03	36075285	AA	GG	1946780855
SNP_P4_35135_36075781	NC_021162.1	Ca_kabuli_chr03	36075781	GG	AA	1946780857
SNP_P4_35136_36075785	NC_021162.1	Ca_kabuli_chr03	36075785	CC	TT	1946780859
SNP_P4_35137_36076102	NC_021162.1	Ca_kabuli_chr03	36076102	TT	CC	1946780861
SNP_P4_35138_36076367	NC_021162.1	Ca_kabuli_chr03	36076367	CC	AA	1946780863
SNP_P4_35139_36076475	NC_021162.1	Ca_kabuli_chr03	36076475	TT	GG	1946780865
SNP_P4_35141_36077982	NC_021162.1	Ca_kabuli_chr03	36077982	CC	AA	1946780867
SNP_P4_35142_36081375	NC_021162.1	Ca_kabuli_chr03	36081375	CC	TT	1946780869
SNP_P4_35144_36081886	NC_021162.1	Ca_kabuli_chr03	36081886	TT	AA	1946780871

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_35146_36088981	NC_021162.1	Ca_kabuli_chr03	36088981	CC	TT	1946780875
SNP_P4_35147_36088982	NC_021162.1	Ca_kabuli_chr03	36088982	CC	TT	1946780877
SNP_P4_35149_36089481	NC_021162.1	Ca_kabuli_chr03	36089481	AA	GG	1946780879
SNP_P4_35150_36089501	NC_021162.1	Ca_kabuli_chr03	36089501	CC	AA	1946780881
SNP_P4_35151_36089726	NC_021162.1	Ca_kabuli_chr03	36089726	GG	AA	1946780883
SNP_P4_35152_36089775	NC_021162.1	Ca_kabuli_chr03	36089775	CC	GG	1946780885
SNP_P4_35153_36089969	NC_021162.1	Ca_kabuli_chr03	36089969	AA	TT	1946780887
SNP_P4_35155_36090038	NC_021162.1	Ca_kabuli_chr03	36090038	AA	GG	1946780889
SNP_P4_35156_36090115	NC_021162.1	Ca_kabuli_chr03	36090115	TT	CC	1946780891
SNP_P4_35157_36090118	NC_021162.1	Ca_kabuli_chr03	36090118	AA	GG	1946780894
SNP_P4_35159_36090204	NC_021162.1	Ca_kabuli_chr03	36090204	AA	GG	1946780896
SNP_P4_35160_36090228	NC_021162.1	Ca_kabuli_chr03	36090228	TT	CC	1946780898
SNP_P4_35161_36091025	NC_021162.1	Ca_kabuli_chr03	36091025	CC	TT	1946780900
SNP_P4_35162_36091043	NC_021162.1	Ca_kabuli_chr03	36091043	TT	AA	1946780902
SNP_P4_35163_36091865	NC_021162.1	Ca_kabuli_chr03	36091865	CC	TT	1946780904
SNP_P4_35164_36092747	NC_021162.1	Ca_kabuli_chr03	36092747	AA	TT	1946780906
SNP_P4_35165_36092796	NC_021162.1	Ca_kabuli_chr03	36092796	AA	GG	1946780909
SNP_P4_35166_36092845	NC_021162.1	Ca_kabuli_chr03	36092845	TT	CC	1946780911
SNP_P4_35167_36093038	NC_021162.1	Ca_kabuli_chr03	36093038	CC	TT	1946780913
SNP_P4_35168_36093043	NC_021162.1	Ca_kabuli_chr03	36093043	GG	TT	1946780915
SNP_P4_35169_36093052	NC_021162.1	Ca_kabuli_chr03	36093052	TT	CC	1946780917
SNP_P4_35170_36093199	NC_021162.1	Ca_kabuli_chr03	36093199	GG	AA	1946780919
SNP_P4_35172_36093260	NC_021162.1	Ca_kabuli_chr03	36093260	TT	CC	1946780921
SNP_P4_35173_36093345	NC_021162.1	Ca_kabuli_chr03	36093345	AA	CC	1946780923
SNP_P4_35174_36093369	NC_021162.1	Ca_kabuli_chr03	36093369	AA	TT	1946780925
SNP_P4_35175_36094207	NC_021162.1	Ca_kabuli_chr03	36094207	TT	CC	1946780927
SNP_P4_35176_36094647	NC_021162.1	Ca_kabuli_chr03	36094647	TT	CC	1946780930
SNP_P4_35177_36095058	NC_021162.1	Ca_kabuli_chr03	36095058	GG	AA	1946780933
SNP_P4_35178_36095059	NC_021162.1	Ca_kabuli_chr03	36095059	CC	TT	1946780935
SNP_P4_35179_36095063	NC_021162.1	Ca_kabuli_chr03	36095063	GG	AA	1946780937
SNP_P4_35180_36095292	NC_021162.1	Ca_kabuli_chr03	36095292	GG	AA	1946780939
SNP_P4_35181_36095296	NC_021162.1	Ca_kabuli_chr03	36095296	AA	CC	1946780941
SNP_P4_35182_36095542	NC_021162.1	Ca_kabuli_chr03	36095542	CC	TT	1946780943
SNP_P4_35183_36097106	NC_021162.1	Ca_kabuli_chr03	36097106	TT	AA	1946780945
SNP_P4_35185_36099351	NC_021162.1	Ca_kabuli_chr03	36099351	AA	GG	1946780947
SNP_P4_35187_36101081	NC_021162.1	Ca_kabuli_chr03	36101081	AA	CC	1946780949
SNP_P4_35188_36102322	NC_021162.1	Ca_kabuli_chr03	36102322	CC	GG	1946780951
SNP_P4_35190_36102492	NC_021162.1	Ca_kabuli_chr03	36102492	AA	TT	1946780953
SNP_P4_35191_36104743	NC_021162.1	Ca_kabuli_chr03	36104743	GG	AA	1946780955
SNP_P4_35193_36105384	NC_021162.1	Ca_kabuli_chr03	36105384	TT	AA	1946780958
SNP_P4_35194_36105390	NC_021162.1	Ca_kabuli_chr03	36105390	GG	TT	1946780960

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_35197_36105898	NC_021162.1	Ca_kabuli_chr03	36105898	CC	TT	1946780964
SNP_P4_35198_36105917	NC_021162.1	Ca_kabuli_chr03	36105917	GG	AA	1946780966
SNP_P4_35199_36105920	NC_021162.1	Ca_kabuli_chr03	36105920	CC	TT	1946780968
SNP_P4_35200_36105921	NC_021162.1	Ca_kabuli_chr03	36105921	AA	GG	1946780970
SNP_P4_35201_36105953	NC_021162.1	Ca_kabuli_chr03	36105953	TT	AA	1946780972
SNP_P4_35202_36106826	NC_021162.1	Ca_kabuli_chr03	36106826	TT	CC	1946780974
SNP_P4_35203_36106831	NC_021162.1	Ca_kabuli_chr03	36106831	TT	CC	1946780976
SNP_P4_35204_36106852	NC_021162.1	Ca_kabuli_chr03	36106852	CC	TT	1946780978
SNP_P4_35206_36107653	NC_021162.1	Ca_kabuli_chr03	36107653	TT	CC	1946780981
SNP_P4_35207_36107655	NC_021162.1	Ca_kabuli_chr03	36107655	GG	AA	1946780983
SNP_P4_35208_36108263	NC_021162.1	Ca_kabuli_chr03	36108263	GG	AA	1946780985
SNP_P4_35209_36108270	NC_021162.1	Ca_kabuli_chr03	36108270	TT	CC	1946780987
SNP_P4_35210_36108329	NC_021162.1	Ca_kabuli_chr03	36108329	CC	AA	1946780989
SNP_P4_35211_36108331	NC_021162.1	Ca_kabuli_chr03	36108331	TT	CC	1946780991
SNP_P4_35212_36108583	NC_021162.1	Ca_kabuli_chr03	36108583	AA	CC	1946780994
SNP_P4_35213_36108615	NC_021162.1	Ca_kabuli_chr03	36108615	AA	CC	1946780996
SNP_P4_35214_36108875	NC_021162.1	Ca_kabuli_chr03	36108875	AA	TT	1946780998
SNP_P4_35215_36110793	NC_021162.1	Ca_kabuli_chr03	36110793	TT	CC	1946781000
SNP_P4_35216_36112008	NC_021162.1	Ca_kabuli_chr03	36112008	TT	CC	1946781002
SNP_P4_35217_36114132	NC_021162.1	Ca_kabuli_chr03	36114132	TT	CC	1946781004
SNP_P4_35218_36116405	NC_021162.1	Ca_kabuli_chr03	36116405	AA	CC	1946781006
SNP_P4_35221_36116669	NC_021162.1	Ca_kabuli_chr03	36116669	GG	AA	1946781008
SNP_P4_35222_36116697	NC_021162.1	Ca_kabuli_chr03	36116697	CC	TT	1946781010
SNP_P4_35223_36116701	NC_021162.1	Ca_kabuli_chr03	36116701	CC	TT	1946781012
SNP_P4_35226_36116864	NC_021162.1	Ca_kabuli_chr03	36116864	AA	CC	1946781014
SNP_P4_35227_36117130	NC_021162.1	Ca_kabuli_chr03	36117130	AA	GG	1946781016
SNP_P4_35229_36121361	NC_021162.1	Ca_kabuli_chr03	36121361	CC	AA	1946781018
SNP_P4_35230_36121691	NC_021162.1	Ca_kabuli_chr03	36121691	TT	GG	1946781021
SNP_P4_35231_36122498	NC_021162.1	Ca_kabuli_chr03	36122498	AA	CC	1946781023
SNP_P4_35232_36123581	NC_021162.1	Ca_kabuli_chr03	36123581	GG	AA	1946781025
SNP_P4_35233_36123600	NC_021162.1	Ca_kabuli_chr03	36123600	CC	TT	1946781027
SNP_P4_35234_36123626	NC_021162.1	Ca_kabuli_chr03	36123626	GG	AA	1946781029
SNP_P4_35235_36125690	NC_021162.1	Ca_kabuli_chr03	36125690	AA	CC	1946781031
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SNP_P4_35238_36127835	NC_021162.1	Ca_kabuli_chr03	36127835	TT	AA	1946781035
SNP_P4_35239_36128521	NC_021162.1	Ca_kabuli_chr03	36128521	CC	TT	1946781037
SNP_P4_35240_36129033	NC_021162.1	Ca_kabuli_chr03	36129033	CC	TT	1946781039
SNP_P4_35241_36129083	NC_021162.1	Ca_kabuli_chr03	36129083	TT	CC	1946781041
SNP_P4_35242_36129103	NC_021162.1	Ca_kabuli_chr03	36129103	TT	GG	1946781043
SNP_P4_35244_36129288	NC_021162.1	Ca_kabuli_chr03	36129288	GG	AA	1946781045
SNP_P4_35245_36129305	NC_021162.1	Ca_kabuli_chr03	36129305	AA	TT	1946781047

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_35247_36129555	NC_021162.1	Ca_kabuli_chr03	36129555	TT	CC	1946781051
SNP_P4_35248_36130610	NC_021162.1	Ca_kabuli_chr03	36130610	AA	CC	1946781053
SNP_P4_35249_36130901	NC_021162.1	Ca_kabuli_chr03	36130901	TT	GG	1946781055
SNP_P4_35250_36132052	NC_021162.1	Ca_kabuli_chr03	36132052	CC	TT	1946781057
SNP_P4_35251_36132071	NC_021162.1	Ca_kabuli_chr03	36132071	AA	GG	1946781060
SNP_P4_35252_36133195	NC_021162.1	Ca_kabuli_chr03	36133195	TT	CC	1946781062
SNP_P4_35253_36133521	NC_021162.1	Ca_kabuli_chr03	36133521	GG	AA	1946781064
SNP_P4_35254_36133562	NC_021162.1	Ca_kabuli_chr03	36133562	CC	GG	1946781066
SNP_P4_35256_36134932	NC_021162.1	Ca_kabuli_chr03	36134932	TT	GG	1946781068
SNP_P4_35257_36135118	NC_021162.1	Ca_kabuli_chr03	36135118	CC	GG	1946781070
SNP_P4_35258_36135143	NC_021162.1	Ca_kabuli_chr03	36135143	CC	AA	1946781072
SNP_P4_35259_36135383	NC_021162.1	Ca_kabuli_chr03	36135383	CC	AA	1946781074
SNP_P4_35260_36135407	NC_021162.1	Ca_kabuli_chr03	36135407	TT	GG	1946781076
SNP_P4_35261_36135702	NC_021162.1	Ca_kabuli_chr03	36135702	CC	GG	1946781079
SNP_P4_35262_36135954	NC_021162.1	Ca_kabuli_chr03	36135954	GG	CC	1946781081
SNP_P4_35263_36136715	NC_021162.1	Ca_kabuli_chr03	36136715	AA	GG	1946781083
SNP_P4_35264_36137243	NC_021162.1	Ca_kabuli_chr03	36137243	GG	AA	1946781085
SNP_P4_35265_36137281	NC_021162.1	Ca_kabuli_chr03	36137281	TT	AA	1946781087
SNP_P4_35266_36137304	NC_021162.1	Ca_kabuli_chr03	36137304	TT	AA	1946781089
SNP_P4_35267_36138077	NC_021162.1	Ca_kabuli_chr03	36138077	GG	AA	1946781091
SNP_P4_35268_36138544	NC_021162.1	Ca_kabuli_chr03	36138544	TT	GG	1946781093
SNP_P4_35269_36139516	NC_021162.1	Ca_kabuli_chr03	36139516	TT	CC	1946781095
SNP_P4_35270_36139517	NC_021162.1	Ca_kabuli_chr03	36139517	TT	AA	1946781097
SNP_P4_35271_36139543	NC_021162.1	Ca_kabuli_chr03	36139543	AA	GG	1946781099
SNP_P4_35272_36139552	NC_021162.1	Ca_kabuli_chr03	36139552	TT	AA	1946781101
SNP_P4_35274_36139735	NC_021162.1	Ca_kabuli_chr03	36139735	GG	AA	1946781103
SNP_P4_35277_36140581	NC_021162.1	Ca_kabuli_chr03	36140581	TT	CC	1946781105
SNP_P4_35278_36140583	NC_021162.1	Ca_kabuli_chr03	36140583	AA	GG	1946781107
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SNP_P4_35281_36141133	NC_021162.1	Ca_kabuli_chr03	36141133	TT	CC	1946781111
SNP_P4_35282_36141161	NC_021162.1	Ca_kabuli_chr03	36141161	GG	AA	1946781113
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SNP_P4_35285_36143581	NC_021162.1	Ca_kabuli_chr03	36143581	GG	CC	1946781119
SNP_P4_35286_36145259	NC_021162.1	Ca_kabuli_chr03	36145259	AA	GG	1946781121
SNP_P4_35287_36145459	NC_021162.1	Ca_kabuli_chr03	36145459	AA	GG	1946781123
SNP_P4_35288_36146773	NC_021162.1	Ca_kabuli_chr03	36146773	GG	AA	1946781125
SNP_P4_35289_36146786	NC_021162.1	Ca_kabuli_chr03	36146786	TT	CC	1946781128
SNP_P4_35290_36146797	NC_021162.1	Ca_kabuli_chr03	36146797	AA	GG	1946781130
SNP_P4_35291_36146862	NC_021162.1	Ca_kabuli_chr03	36146862	AA	CC	1946781132
SNP_P4_35292_36146873	NC_021162.1	Ca_kabuli_chr03	36146873	TT	CC	1946781134

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_35295_36150280	NC_021162.1	Ca_kabuli_chr03	36150280	TT	GG	1946781140
SNP_P4_35296_36151682	NC_021162.1	Ca_kabuli_chr03	36151682	TT	AA	1946781142
SNP_P4_35297_36151754	NC_021162.1	Ca_kabuli_chr03	36151754	GG	AA	1946781144
SNP_P4_35298_36151861	NC_021162.1	Ca_kabuli_chr03	36151861	TT	AA	1946781146
SNP_P4_35300_36151963	NC_021162.1	Ca_kabuli_chr03	36151963	AA	TT	1946781148
SNP_P4_35301_36151979	NC_021162.1	Ca_kabuli_chr03	36151979	TT	CC	1946781150
SNP_P4_35302_36152310	NC_021162.1	Ca_kabuli_chr03	36152310	GG	AA	1946781152
SNP_P4_35304_36152385	NC_021162.1	Ca_kabuli_chr03	36152385	AA	CC	1946781154
SNP_P4_35305_36152391	NC_021162.1	Ca_kabuli_chr03	36152391	GG	AA	1946781157
SNP_P4_35306_36152651	NC_021162.1	Ca_kabuli_chr03	36152651	GG	AA	1946781159
SNP_P4_35308_36152997	NC_021162.1	Ca_kabuli_chr03	36152997	CC	TT	1946781161
SNP_P4_35309_36153261	NC_021162.1	Ca_kabuli_chr03	36153261	TT	CC	1946781163
SNP_P4_35311_36156498	NC_021162.1	Ca_kabuli_chr03	36156498	TT	CC	1946781165
SNP_P4_35312_36156581	NC_021162.1	Ca_kabuli_chr03	36156581	CC	TT	1946781167
SNP_P4_35313_36156592	NC_021162.1	Ca_kabuli_chr03	36156592	CC	TT	1946781169
SNP_P4_35314_36157004	NC_021162.1	Ca_kabuli_chr03	36157004	GG	AA	1946781171
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SNP_P4_35316_36157598	NC_021162.1	Ca_kabuli_chr03	36157598	AA	GG	1946781175
SNP_P4_35320_36158912	NC_021162.1	Ca_kabuli_chr03	36158912	AA	GG	1946781177
SNP_P4_35322_36166886	NC_021162.1	Ca_kabuli_chr03	36166886	GG	AA	1946781179
SNP_P4_35324_36170099	NC_021162.1	Ca_kabuli_chr03	36170099	AA	TT	1946781181
SNP_P4_35325_36177364	NC_021162.1	Ca_kabuli_chr03	36177364	GG	CC	1946781183
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SNP_P4_35327_36177734	NC_021162.1	Ca_kabuli_chr03	36177734	GG	AA	1946781187
SNP_P4_35329_36177844	NC_021162.1	Ca_kabuli_chr03	36177844	AA	GG	1946781189
SNP_P4_35330_36177849	NC_021162.1	Ca_kabuli_chr03	36177849	GG	AA	1946781192
SNP_P4_35331_36178002	NC_021162.1	Ca_kabuli_chr03	36178002	GG	CC	1946781194
SNP_P4_35332_36178176	NC_021162.1	Ca_kabuli_chr03	36178176	TT	CC	1946781196
SNP_P4_35333_36178557	NC_021162.1	Ca_kabuli_chr03	36178557	AA	GG	1946781198
SNP_P4_35334_36178558	NC_021162.1	Ca_kabuli_chr03	36178558	CC	AA	1946781200
SNP_P4_35335_36178612	NC_021162.1	Ca_kabuli_chr03	36178612	TT	CC	1946781202
SNP_P4_35338_36179029	NC_021162.1	Ca_kabuli_chr03	36179029	CC	TT	1946781204
SNP_P4_35339_36179041	NC_021162.1	Ca_kabuli_chr03	36179041	AA	GG	1946781206
SNP_P4_35340_36179057	NC_021162.1	Ca_kabuli_chr03	36179057	AA	TT	1946781208
SNP_P4_35341_36179100	NC_021162.1	Ca_kabuli_chr03	36179100	GG	AA	1946781211
SNP_P4_35342_36179101	NC_021162.1	Ca_kabuli_chr03	36179101	TT	CC	1946781213
SNP_P4_35343_36179105	NC_021162.1	Ca_kabuli_chr03	36179105	AA	GG	1946781215
SNP_P4_35344_36179132	NC_021162.1	Ca_kabuli_chr03	36179132	CC	TT	1946781217
SNP_P4_35346_36182722	NC_021162.1	Ca_kabuli_chr03	36182722	AA	CC	1946781220
SNP_P4_35347_36184620	NC_021162.1	Ca_kabuli_chr03	36184620	CC	AA	1946781222

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_35350_36184892	NC_021162.1	Ca_kabuli_chr03	36184892	AA	GG	1946781226
SNP_P4_35352_36186775	NC_021162.1	Ca_kabuli_chr03	36186775	TT	CC	1946781228
SNP_P4_35353_36187482	NC_021162.1	Ca_kabuli_chr03	36187482	AA	CC	1946781230
SNP_P4_35354_36187491	NC_021162.1	Ca_kabuli_chr03	36187491	GG	AA	1946781232
SNP_P4_35355_36187494	NC_021162.1	Ca_kabuli_chr03	36187494	GG	TT	1946781235
SNP_P4_35356_36187504	NC_021162.1	Ca_kabuli_chr03	36187504	GG	AA	1946781237
SNP_P4_35359_36188980	NC_021162.1	Ca_kabuli_chr03	36188980	TT	CC	1946781239
SNP_P4_35360_36188982	NC_021162.1	Ca_kabuli_chr03	36188982	GG	AA	1946781241
SNP_P4_35362_36191557	NC_021162.1	Ca_kabuli_chr03	36191557	GG	CC	1946781243
SNP_P4_35363_36193668	NC_021162.1	Ca_kabuli_chr03	36193668	CC	GG	1946781245
SNP_P4_35365_36194086	NC_021162.1	Ca_kabuli_chr03	36194086	CC	GG	1946781247
SNP_P4_35366_36194198	NC_021162.1	Ca_kabuli_chr03	36194198	TT	CC	1946781249
SNP_P4_35368_36194279	NC_021162.1	Ca_kabuli_chr03	36194279	GG	TT	1946781251
SNP_P4_35369_36194563	NC_021162.1	Ca_kabuli_chr03	36194563	GG	AA	1946781253
SNP_P4_35370_36195877	NC_021162.1	Ca_kabuli_chr03	36195877	GG	AA	1946781255
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SNP_P4_35387_36198986	NC_021162.1	Ca_kabuli_chr03	36198986	TT	AA	1946781279
SNP_P4_35389_36199274	NC_021162.1	Ca_kabuli_chr03	36199274	AA	GG	1946781281
SNP_P4_35390_36199287	NC_021162.1	Ca_kabuli_chr03	36199287	TT	CC	1946781283
SNP_P4_35391_36199290	NC_021162.1	Ca_kabuli_chr03	36199290	AA	CC	1946781285
SNP_P4_35392_36199913	NC_021162.1	Ca_kabuli_chr03	36199913	AA	GG	1946781288
SNP_P4_35395_36201751	NC_021162.1	Ca_kabuli_chr03	36201751	CC	GG	1946781290
SNP_P4_35396_36203386	NC_021162.1	Ca_kabuli_chr03	36203386	CC	AA	1946781292
SNP_P4_35397_36203946	NC_021162.1	Ca_kabuli_chr03	36203946	GG	AA	1946781294
SNP_P4_35398_36204134	NC_021162.1	Ca_kabuli_chr03	36204134	GG	AA	1946781297
SNP_P4_35399_36204146	NC_021162.1	Ca_kabuli_chr03	36204146	GG	AA	1946781299
SNP_P4_35401_36204629	NC_021162.1	Ca_kabuli_chr03	36204629	CC	TT	1946781301
SNP_P4_35402_36204636	NC_021162.1	Ca_kabuli_chr03	36204636	TT	CC	1946781303
SNP_P4_35403_36204716	NC_021162.1	Ca_kabuli_chr03	36204716	CC	TT	1946781305
SNP_P4_35406_36205469	NC_021162.1	Ca_kabuli_chr03	36205469	TT	GG	1946781307
SNP_P4_35407_36205473	NC_021162.1	Ca_kabuli_chr03	36205473	AA	TT	1946781309

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_35409_36205712	NC_021162.1	Ca_kabuli_chr03	36205712	AA	GG	1946781313
SNP_P4_35410_36205718	NC_021162.1	Ca_kabuli_chr03	36205718	AA	TT	1946781315
SNP_P4_35411_36205719	NC_021162.1	Ca_kabuli_chr03	36205719	GG	CC	1946781317
SNP_P4_35412_36205943	NC_021162.1	Ca_kabuli_chr03	36205943	AA	GG	1946781319
SNP_P4_35413_36205957	NC_021162.1	Ca_kabuli_chr03	36205957	TT	GG	1946781321
SNP_P4_35415_36206864	NC_021162.1	Ca_kabuli_chr03	36206864	CC	TT	1946781323
SNP_P4_35416_36207178	NC_021162.1	Ca_kabuli_chr03	36207178	AA	TT	1946781325
SNP_P4_35418_36210618	NC_021162.1	Ca_kabuli_chr03	36210618	AA	GG	1946781327
SNP_P4_35419_36210675	NC_021162.1	Ca_kabuli_chr03	36210675	TT	CC	1946781329
SNP_P4_35421_36212100	NC_021162.1	Ca_kabuli_chr03	36212100	AA	TT	1946781331
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SNP_P4_35424_36212363	NC_021162.1	Ca_kabuli_chr03	36212363	GG	TT	1946781335
SNP_P4_35425_36212405	NC_021162.1	Ca_kabuli_chr03	36212405	GG	AA	1946781337
SNP_P4_35427_36212491	NC_021162.1	Ca_kabuli_chr03	36212491	CC	TT	1946781339
SNP_P4_35428_36212521	NC_021162.1	Ca_kabuli_chr03	36212521	AA	GG	1946781341
SNP_P4_35429_36212544	NC_021162.1	Ca_kabuli_chr03	36212544	AA	TT	1946781343
SNP_P4_35430_36212571	NC_021162.1	Ca_kabuli_chr03	36212571	GG	AA	1946781345
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SNP_P4_35437_36213118	NC_021162.1	Ca_kabuli_chr03	36213118	CC	TT	1946781360
SNP_P4_35438_36213121	NC_021162.1	Ca_kabuli_chr03	36213121	TT	GG	1946781362
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SNP_P4_35444_36213848	NC_021162.1	Ca_kabuli_chr03	36213848	GG	AA	1946781372
SNP_P4_35446_36215664	NC_021162.1	Ca_kabuli_chr03	36215664	GG	CC	1946781374
SNP_P4_35448_36215726	NC_021162.1	Ca_kabuli_chr03	36215726	CC	AA	1946781376
SNP_P4_35449_36215748	NC_021162.1	Ca_kabuli_chr03	36215748	GG	AA	1946781378
SNP_P4_35450_36216551	NC_021162.1	Ca_kabuli_chr03	36216551	CC	TT	1946781380
SNP_P4_35452_36217105	NC_021162.1	Ca_kabuli_chr03	36217105	TT	CC	1946781382
SNP_P4_35455_36217298	NC_021162.1	Ca_kabuli_chr03	36217298	AA	GG	1946781384
SNP_P4_35456_36217378	NC_021162.1	Ca_kabuli_chr03	36217378	CC	TT	1946781387
SNP_P4_35457_36217544	NC_021162.1	Ca_kabuli_chr03	36217544	CC	TT	1946781389
SNP_P4_35458_36217556	NC_021162.1	Ca_kabuli_chr03	36217556	TT	CC	1946781390
SNP_P4_35459_36217579	NC_021162.1	Ca_kabuli_chr03	36217579	CC	GG	1946781391
SNP_P4_35461_36218347	NC_021162.1	Ca_kabuli_chr03	36218347	AA	CC	1946781392

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_35464_36218621	NC_021162.1	Ca_kabuli_chr03	36218621	GG	AA	1946781396
SNP_P4_35466_36219157	NC_021162.1	Ca_kabuli_chr03	36219157	GG	TT	1946781398
SNP_P4_35467_36219318	NC_021162.1	Ca_kabuli_chr03	36219318	TT	CC	1946781400
SNP_P4_35468_36219335	NC_021162.1	Ca_kabuli_chr03	36219335	TT	GG	1946781402
SNP_P4_35470_36219354	NC_021162.1	Ca_kabuli_chr03	36219354	AA	GG	1946781404
SNP_P4_35471_36219618	NC_021162.1	Ca_kabuli_chr03	36219618	AA	GG	1946781406
SNP_P4_35472_36220387	NC_021162.1	Ca_kabuli_chr03	36220387	TT	CC	1946781408
SNP_P4_35473_36220696	NC_021162.1	Ca_kabuli_chr03	36220696	AA	GG	1946781410
SNP_P4_35474_36220762	NC_021162.1	Ca_kabuli_chr03	36220762	AA	CC	1946781414
SNP_P4_35477_36222052	NC_021162.1	Ca_kabuli_chr03	36222052	AA	CC	1946781416
SNP_P4_35478_36222115	NC_021162.1	Ca_kabuli_chr03	36222115	TT	CC	1946781418
SNP_P4_35479_36222117	NC_021162.1	Ca_kabuli_chr03	36222117	AA	GG	1946781420
SNP_P4_35480_36222139	NC_021162.1	Ca_kabuli_chr03	36222139	TT	CC	1946781422
SNP_P4_35481_36222143	NC_021162.1	Ca_kabuli_chr03	36222143	TT	GG	1946781425
SNP_P4_35482_36222286	NC_021162.1	Ca_kabuli_chr03	36222286	GG	TT	1946781427
SNP_P4_35483_36224606	NC_021162.1	Ca_kabuli_chr03	36224606	CC	AA	1946781430
SNP_P4_35485_36225173	NC_021162.1	Ca_kabuli_chr03	36225173	AA	GG	1946781432
SNP_P4_35486_36225828	NC_021162.1	Ca_kabuli_chr03	36225828	AA	CC	1946781434
SNP_P4_35488_36227142	NC_021162.1	Ca_kabuli_chr03	36227142	TT	CC	1946781436
SNP_P4_35489_36229014	NC_021162.1	Ca_kabuli_chr03	36229014	TT	CC	1946781438
SNP_P4_35490_36229031	NC_021162.1	Ca_kabuli_chr03	36229031	GG	AA	1946781440
SNP_P4_35491_36230156	NC_021162.1	Ca_kabuli_chr03	36230156	TT	CC	1946781443
SNP_P4_35492_36233457	NC_021162.1	Ca_kabuli_chr03	36233457	GG	AA	1946781445
SNP_P4_35493_36234192	NC_021162.1	Ca_kabuli_chr03	36234192	CC	TT	1946781447
SNP_P4_35494_36235946	NC_021162.1	Ca_kabuli_chr03	36235946	GG	AA	1946781449
SNP_P4_35495_36236652	NC_021162.1	Ca_kabuli_chr03	36236652	GG	AA	1946781451
SNP_P4_35497_36236945	NC_021162.1	Ca_kabuli_chr03	36236945	TT	CC	1946781453
SNP_P4_35498_36236982	NC_021162.1	Ca_kabuli_chr03	36236982	AA	GG	1946781455
SNP_P4_35499_36236983	NC_021162.1	Ca_kabuli_chr03	36236983	GG	AA	1946781457
SNP_P4_35500_36237005	NC_021162.1	Ca_kabuli_chr03	36237005	CC	TT	1946781459
SNP_P4_35501_36237020	NC_021162.1	Ca_kabuli_chr03	36237020	TT	CC	1946781461
SNP_P4_35502_36237027	NC_021162.1	Ca_kabuli_chr03	36237027	GG	TT	1946781463
SNP_P4_35503_36240124	NC_021162.1	Ca_kabuli_chr03	36240124	CC	GG	1946781465
SNP_P4_35504_36240223	NC_021162.1	Ca_kabuli_chr03	36240223	AA	TT	1946781467
SNP_P4_35505_36240233	NC_021162.1	Ca_kabuli_chr03	36240233	AA	GG	1946781469
SNP_P4_35506_36240266	NC_021162.1	Ca_kabuli_chr03	36240266	CC	TT	1946781471
SNP_P4_35507_36240274	NC_021162.1	Ca_kabuli_chr03	36240274	TT	CC	1946781473
SNP_P4_35508_36240289	NC_021162.1	Ca_kabuli_chr03	36240289	CC	TT	1946781475
SNP_P4_35509_36240290	NC_021162.1	Ca_kabuli_chr03	36240290	CC	AA	1946781477
SNP_P4_35510_36240310	NC_021162.1	Ca_kabuli_chr03	36240310	TT	CC	1946781479
SNP_P4_35511_36240312	NC_021162.1	Ca_kabuli_chr03	36240312	GG	AA	1946781481

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_35513_36240379	NC_021162.1	Ca_kabuli_chr03	36240379	AA	GG	1946781486
SNP_P4_35514_36240392	NC_021162.1	Ca_kabuli_chr03	36240392	GG	AA	1946781488
SNP_P4_35516_36240446	NC_021162.1	Ca_kabuli_chr03	36240446	AA	CC	1946781490
SNP_P4_35517_36240530	NC_021162.1	Ca_kabuli_chr03	36240530	TT	CC	1946781492
SNP_P4_35518_36240531	NC_021162.1	Ca_kabuli_chr03	36240531	TT	CC	1946781495
SNP_P4_35519_36240532	NC_021162.1	Ca_kabuli_chr03	36240532	GG	AA	1946781497
SNP_P4_35520_36240533	NC_021162.1	Ca_kabuli_chr03	36240533	AA	GG	1946781499
SNP_P4_35521_36240645	NC_021162.1	Ca_kabuli_chr03	36240645	TT	CC	1946781501
SNP_P4_35522_36240659	NC_021162.1	Ca_kabuli_chr03	36240659	CC	AA	1946781503
SNP_P4_35523_36240668	NC_021162.1	Ca_kabuli_chr03	36240668	GG	AA	1946781505
SNP_P4_35524_36240707	NC_021162.1	Ca_kabuli_chr03	36240707	TT	CC	1946781507
SNP_P4_35525_36240728	NC_021162.1	Ca_kabuli_chr03	36240728	TT	AA	1946781510
SNP_P4_35526_36241143	NC_021162.1	Ca_kabuli_chr03	36241143	GG	AA	1946781512
SNP_P4_35527_36241153	NC_021162.1	Ca_kabuli_chr03	36241153	GG	AA	1946781514
SNP_P4_35528_36241160	NC_021162.1	Ca_kabuli_chr03	36241160	TT	CC	1946781516
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SNP_P4_35531_36241597	NC_021162.1	Ca_kabuli_chr03	36241597	TT	CC	1946781521
SNP_P4_35533_36241663	NC_021162.1	Ca_kabuli_chr03	36241663	GG	TT	1946781523
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SNP_P4_35535_36241853	NC_021162.1	Ca_kabuli_chr03	36241853	TT	AA	1946781527
SNP_P4_35536_36241918	NC_021162.1	Ca_kabuli_chr03	36241918	CC	TT	1946781530
SNP_P4_35537_36242504	NC_021162.1	Ca_kabuli_chr03	36242504	CC	TT	1946781532
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SNP_P4_35540_36244365	NC_021162.1	Ca_kabuli_chr03	36244365	TT	CC	1946781537
SNP_P4_35541_36246359	NC_021162.1	Ca_kabuli_chr03	36246359	CC	TT	1946781539
SNP_P4_35542_36246463	NC_021162.1	Ca_kabuli_chr03	36246463	AA	GG	1946781541
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SNP_P4_35546_36249183	NC_021162.1	Ca_kabuli_chr03	36249183	GG	AA	1946781550
SNP_P4_35547_36249235	NC_021162.1	Ca_kabuli_chr03	36249235	AA	GG	1946781552
SNP_P4_35548_36249282	NC_021162.1	Ca_kabuli_chr03	36249282	AA	GG	1946781554
SNP_P4_35549_36249294	NC_021162.1	Ca_kabuli_chr03	36249294	AA	GG	1946781557
SNP_P4_35550_36249318	NC_021162.1	Ca_kabuli_chr03	36249318	CC	TT	1946781559
SNP_P4_35551_36249414	NC_021162.1	Ca_kabuli_chr03	36249414	CC	TT	1946781561
SNP_P4_35552_36249533	NC_021162.1	Ca_kabuli_chr03	36249533	AA	TT	1946781563
SNP_P4_35553_36249549	NC_021162.1	Ca_kabuli_chr03	36249549	TT	AA	1946781565
SNP_P4_35554_36249595	NC_021162.1	Ca_kabuli_chr03	36249595	CC	TT	1946781567
SNP_P4_35555_36251104	NC_021162.1	Ca_kabuli_chr03	36251104	TT	GG	1946781569
SNP_P4_35557_36253276	NC_021162.1	Ca_kabuli_chr03	36253276	AA	GG	1946781571
SNP_P4_35558_36253291	NC_021162.1	Ca_kabuli_chr03	36253291	CC	GG	1946781573

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_35561_36255662	NC_021162.1	Ca_kabuli_chr03	36255662	TT	CC	1946781579
SNP_P4_35563_36256081	NC_021162.1	Ca_kabuli_chr03	36256081	CC	TT	1946781582
SNP_P4_35564_36256096	NC_021162.1	Ca_kabuli_chr03	36256096	CC	AA	1946781584
SNP_P4_35565_36256365	NC_021162.1	Ca_kabuli_chr03	36256365	GG	AA	1946781586
SNP_P4_35566_36256566	NC_021162.1	Ca_kabuli_chr03	36256566	GG	AA	1946781588
SNP_P4_35567_36256651	NC_021162.1	Ca_kabuli_chr03	36256651	TT	CC	1946781590
SNP_P4_35568_36257589	NC_021162.1	Ca_kabuli_chr03	36257589	GG	AA	1946781592
SNP_P4_35570_36258020	NC_021162.1	Ca_kabuli_chr03	36258020	TT	AA	1946781594
SNP_P4_35571_36258280	NC_021162.1	Ca_kabuli_chr03	36258280	TT	CC	1946781596
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SNP_P4_35575_36262508	NC_021162.1	Ca_kabuli_chr03	36262508	AA	TT	1946781603
SNP_P4_35577_36263804	NC_021162.1	Ca_kabuli_chr03	36263804	AA	TT	1946781605
SNP_P4_35578_36263811	NC_021162.1	Ca_kabuli_chr03	36263811	CC	TT	1946781607
SNP_P4_35579_36264470	NC_021162.1	Ca_kabuli_chr03	36264470	CC	TT	1946781609
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SNP_P4_35595_36269503	NC_021162.1	Ca_kabuli_chr03	36269503	CC	GG	1946781638
SNP_P4_35596_36269671	NC_021162.1	Ca_kabuli_chr03	36269671	AA	TT	1946781640
SNP_P4_35597_36269717	NC_021162.1	Ca_kabuli_chr03	36269717	AA	GG	1946781642
SNP_P4_35598_36269787	NC_021162.1	Ca_kabuli_chr03	36269787	TT	GG	1946781644
SNP_P4_35600_36270748	NC_021162.1	Ca_kabuli_chr03	36270748	TT	AA	1946781648
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SNP_P4_35602_36270770	NC_021162.1	Ca_kabuli_chr03	36270770	GG	AA	1946781652
SNP_P4_35603_36270791	NC_021162.1	Ca_kabuli_chr03	36270791	TT	AA	1946781654
SNP_P4_35604_36270818	NC_021162.1	Ca_kabuli_chr03	36270818	TT	CC	1946781656
SNP_P4_35605_36270833	NC_021162.1	Ca_kabuli_chr03	36270833	AA	TT	1946781658
SNP_P4_35606_36270835	NC_021162.1	Ca_kabuli_chr03	36270835	AA	TT	1946781660
SNP_P4_35607_36270864	NC_021162.1	Ca_kabuli_chr03	36270864	TT	CC	1946781662

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SNP_P4_35610_36271711	NC_021162.1	Ca_kabuli_chr03	36271711	GG	TT	1946781668
SNP_P4_35611_36273496	NC_021162.1	Ca_kabuli_chr03	36273496	CC	TT	1946781670
SNP_P4_35612_36273505	NC_021162.1	Ca_kabuli_chr03	36273505	CC	TT	1946781672
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SNP_P4_35614_36273537	NC_021162.1	Ca_kabuli_chr03	36273537	GG	AA	1946781676
SNP_P4_35617_36274541	NC_021162.1	Ca_kabuli_chr03	36274541	CC	TT	1946781678
SNP_P4_35618_36274557	NC_021162.1	Ca_kabuli_chr03	36274557	GG	AA	1946781680
SNP_P4_35619_36274572	NC_021162.1	Ca_kabuli_chr03	36274572	AA	GG	1946781682
SNP_P4_35620_36274580	NC_021162.1	Ca_kabuli_chr03	36274580	AA	TT	1946781684
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SNP_P4_35625_36279330	NC_021162.1	Ca_kabuli_chr03	36279330	CC	AA	1946781695
SNP_P4_35626_36279332	NC_021162.1	Ca_kabuli_chr03	36279332	GG	AA	1946781697
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SNP_P4_35635_36286292	NC_021162.1	Ca_kabuli_chr03	36286292	AA	GG	1946781714
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SNP_P4_35642_36286849	NC_021162.1	Ca_kabuli_chr03	36286849	CC	AA	1946781726
SNP_P4_35643_36287123	NC_021162.1	Ca_kabuli_chr03	36287123	GG	AA	1946781728
SNP_P4_35645_36287197	NC_021162.1	Ca_kabuli_chr03	36287197	TT	CC	1946781730
SNP_P4_35646_36287403	NC_021162.1	Ca_kabuli_chr03	36287403	GG	AA	1946781732
SNP_P4_35647_36287437	NC_021162.1	Ca_kabuli_chr03	36287437	GG	AA	1946781734
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SNP_P4_35650_36287639	NC_021162.1	Ca_kabuli_chr03	36287639	TT	CC	1946781738
SNP_P4_35652_36289346	NC_021162.1	Ca_kabuli_chr03	36289346	CC	TT	1946781740
SNP_P4_35654_36289390	NC_021162.1	Ca_kabuli_chr03	36289390	AA	GG	1946781742
SNP_P4_35655_36289625	NC_021162.1	Ca_kabuli_chr03	36289625	GG	AA	1946781744
SNP_P4_35657_36290068	NC_021162.1	Ca_kabuli_chr03	36290068	TT	CC	1946781746
SNP_P4_35658_36290069	NC_021162.1	Ca_kabuli_chr03	36290069	GG	AA	1946781748

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_35661_36290621	NC_021162.1	Ca_kabuli_chr03	36290621	TT	AA	1946781754
SNP_P4_35662_36290696	NC_021162.1	Ca_kabuli_chr03	36290696	CC	TT	1946781756
SNP_P4_35664_36290793	NC_021162.1	Ca_kabuli_chr03	36290793	AA	GG	1946781758
SNP_P4_35665_36290882	NC_021162.1	Ca_kabuli_chr03	36290882	TT	CC	1946781760
SNP_P4_35666_36290887	NC_021162.1	Ca_kabuli_chr03	36290887	GG	CC	1946781762
SNP_P4_35667_36290927	NC_021162.1	Ca_kabuli_chr03	36290927	TT	AA	1946781764
SNP_P4_35668_36290928	NC_021162.1	Ca_kabuli_chr03	36290928	CC	TT	1946781766
SNP_P4_35669_36290993	NC_021162.1	Ca_kabuli_chr03	36290993	GG	AA	1946781768
SNP_P4_35670_36291201	NC_021162.1	Ca_kabuli_chr03	36291201	TT	CC	1946781770
SNP_P4_35671_36295652	NC_021162.1	Ca_kabuli_chr03	36295652	TT	AA	1946781772
SNP_P4_35672_36301547	NC_021162.1	Ca_kabuli_chr03	36301547	TT	GG	1946781775
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SNP_P4_35674_36302515	NC_021162.1	Ca_kabuli_chr03	36302515	CC	TT	1946781779
SNP_P4_35675_36302640	NC_021162.1	Ca_kabuli_chr03	36302640	GG	AA	1946781781
SNP_P4_35676_36303055	NC_021162.1	Ca_kabuli_chr03	36303055	CC	TT	1946781783
SNP_P4_35677_36303268	NC_021162.1	Ca_kabuli_chr03	36303268	GG	AA	1946781785
SNP_P4_35680_36303583	NC_021162.1	Ca_kabuli_chr03	36303583	AA	GG	1946781787
SNP_P4_35682_36306971	NC_021162.1	Ca_kabuli_chr03	36306971	CC	TT	1946781789
SNP_P4_35683_36306994	NC_021162.1	Ca_kabuli_chr03	36306994	AA	TT	1946781791
SNP_P4_35684_36307006	NC_021162.1	Ca_kabuli_chr03	36307006	AA	GG	1946781793
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SNP_P4_35686_36307966	NC_021162.1	Ca_kabuli_chr03	36307966	AA	GG	1946781797
SNP_P4_35687_36308131	NC_021162.1	Ca_kabuli_chr03	36308131	GG	AA	1946781799
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SNP_P4_35693_36308272	NC_021162.1	Ca_kabuli_chr03	36308272	CC	TT	1946781809
SNP_P4_35694_36311007	NC_021162.1	Ca_kabuli_chr03	36311007	TT	CC	1946781811
SNP_P4_35695_36313050	NC_021162.1	Ca_kabuli_chr03	36313050	GG	CC	1946781813
SNP_P4_35696_36313508	NC_021162.1	Ca_kabuli_chr03	36313508	GG	TT	1946781815
SNP_P4_35697_36321537	NC_021162.1	Ca_kabuli_chr03	36321537	CC	AA	1946781818
SNP_P4_35698_36321551	NC_021162.1	Ca_kabuli_chr03	36321551	CC	TT	1946781820
SNP_P4_35699_36322622	NC_021162.1	Ca_kabuli_chr03	36322622	CC	AA	1946781822
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SNP_P4_35702_36323514	NC_021162.1	Ca_kabuli_chr03	36323514	TT	GG	1946781827
SNP_P4_35703_36323847	NC_021162.1	Ca_kabuli_chr03	36323847	AA	GG	1946781829
SNP_P4_35704_36324018	NC_021162.1	Ca_kabuli_chr03	36324018	TT	GG	1946781831
SNP_P4_35705_36324789	NC_021162.1	Ca_kabuli_chr03	36324789	GG	TT	1946781833
SNP_P4_35707_36324833	NC_021162.1	Ca_kabuli_chr03	36324833	CC	TT	1946781835

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_35710_36326059	NC_021162.1	Ca_kabuli_chr03	36326059	AA	CC	1946781841
SNP_P4_35713_36326313	NC_021162.1	Ca_kabuli_chr03	36326313	TT	GG	1946781843
SNP_P4_35715_36326434	NC_021162.1	Ca_kabuli_chr03	36326434	GG	TT	1946781845
SNP_P4_35716_36326442	NC_021162.1	Ca_kabuli_chr03	36326442	AA	TT	1946781848
SNP_P4_35717_36326515	NC_021162.1	Ca_kabuli_chr03	36326515	CC	TT	1946781850
SNP_P4_35718_36326593	NC_021162.1	Ca_kabuli_chr03	36326593	GG	TT	1946781852
SNP_P4_35719_36326603	NC_021162.1	Ca_kabuli_chr03	36326603	GG	AA	1946781854
SNP_P4_35720_36326643	NC_021162.1	Ca_kabuli_chr03	36326643	TT	CC	1946781856
SNP_P4_35721_36326649	NC_021162.1	Ca_kabuli_chr03	36326649	TT	CC	1946781858
SNP_P4_35722_36326661	NC_021162.1	Ca_kabuli_chr03	36326661	TT	CC	1946781860
SNP_P4_35723_36326762	NC_021162.1	Ca_kabuli_chr03	36326762	TT	CC	1946781862
SNP_P4_35724_36326788	NC_021162.1	Ca_kabuli_chr03	36326788	AA	GG	1946781864
SNP_P4_35725_36327071	NC_021162.1	Ca_kabuli_chr03	36327071	CC	TT	1946781867
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SNP_P4_35730_36327294	NC_021162.1	Ca_kabuli_chr03	36327294	AA	TT	1946781875
SNP_P4_35731_36327556	NC_021162.1	Ca_kabuli_chr03	36327556	CC	TT	1946781877
SNP_P4_35732_36328018	NC_021162.1	Ca_kabuli_chr03	36328018	TT	CC	1946781879
SNP_P4_35735_36329158	NC_021162.1	Ca_kabuli_chr03	36329158	AA	GG	1946781881
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SNP_P4_35738_36331798	NC_021162.1	Ca_kabuli_chr03	36331798	AA	CC	1946781887
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SNP_P4_35743_36334332	NC_021162.1	Ca_kabuli_chr03	36334332	GG	AA	1946781895
SNP_P4_35744_36335144	NC_021162.1	Ca_kabuli_chr03	36335144	TT	CC	1946781897
SNP_P4_35745_36335430	NC_021162.1	Ca_kabuli_chr03	36335430	TT	AA	1946781899
SNP_P4_35746_36335452	NC_021162.1	Ca_kabuli_chr03	36335452	GG	CC	1946781902
SNP_P4_35747_36335777	NC_021162.1	Ca_kabuli_chr03	36335777	CC	GG	1946781904
SNP_P4_35748_36335886	NC_021162.1	Ca_kabuli_chr03	36335886	TT	CC	1946781906
SNP_P4_35749_36335947	NC_021162.1	Ca_kabuli_chr03	36335947	GG	TT	1946781908
SNP_P4_35750_36336128	NC_021162.1	Ca_kabuli_chr03	36336128	CC	TT	1946781910
SNP_P4_35751_36336131	NC_021162.1	Ca_kabuli_chr03	36336131	CC	TT	1946781912
SNP_P4_35753_36337027	NC_021162.1	Ca_kabuli_chr03	36337027	TT	CC	1946781914
SNP_P4_35755_36341458	NC_021162.1	Ca_kabuli_chr03	36341458	TT	AA	1946781916
SNP_P4_35756_36341516	NC_021162.1	Ca_kabuli_chr03	36341516	AA	TT	1946781918
SNP_P4_35757_36341551	NC_021162.1	Ca_kabuli_chr03	36341551	AA	GG	1946781920
SNP_P4_35758_36342397	NC_021162.1	Ca_kabuli_chr03	36342397	TT	CC	1946781922

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_35762_36342669	NC_021162.1	Ca_kabuli_chr03	36342669	TT	GG	1946781929
SNP_P4_35763_36342684	NC_021162.1	Ca_kabuli_chr03	36342684	GG	CC	1946781931
SNP_P4_35764_36342685	NC_021162.1	Ca_kabuli_chr03	36342685	AA	CC	1946781933
SNP_P4_35765_36342686	NC_021162.1	Ca_kabuli_chr03	36342686	GG	CC	1946781935
SNP_P4_35766_36342688	NC_021162.1	Ca_kabuli_chr03	36342688	GG	AA	1946781937
SNP_P4_35767_36342707	NC_021162.1	Ca_kabuli_chr03	36342707	TT	GG	1946781939
SNP_P4_35768_36343337	NC_021162.1	Ca_kabuli_chr03	36343337	TT	AA	1946781941
SNP_P4_35769_36343362	NC_021162.1	Ca_kabuli_chr03	36343362	TT	AA	1946781943
SNP_P4_35770_36343363	NC_021162.1	Ca_kabuli_chr03	36343363	TT	AA	1946781945
SNP_P4_35771_36343574	NC_021162.1	Ca_kabuli_chr03	36343574	TT	CC	1946781948
SNP_P4_35772_36343579	NC_021162.1	Ca_kabuli_chr03	36343579	CC	TT	1946781950
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SNP_P4_35777_36343888	NC_021162.1	Ca_kabuli_chr03	36343888	GG	AA	1946781959
SNP_P4_35778_36343983	NC_021162.1	Ca_kabuli_chr03	36343983	GG	AA	1946781961
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SNP_P4_35784_36345985	NC_021162.1	Ca_kabuli_chr03	36345985	CC	TT	1946781972
SNP_P4_35786_36347692	NC_021162.1	Ca_kabuli_chr03	36347692	AA	GG	1946781974
SNP_P4_35787_36347925	NC_021162.1	Ca_kabuli_chr03	36347925	CC	TT	1946781976
SNP_P4_35788_36348078	NC_021162.1	Ca_kabuli_chr03	36348078	TT	CC	1946781978
SNP_P4_35789_36348085	NC_021162.1	Ca_kabuli_chr03	36348085	TT	CC	1946781980
SNP_P4_35790_36348089	NC_021162.1	Ca_kabuli_chr03	36348089	GG	AA	1946781982
SNP_P4_35791_36348092	NC_021162.1	Ca_kabuli_chr03	36348092	CC	TT	1946781984
SNP_P4_35792_36348093	NC_021162.1	Ca_kabuli_chr03	36348093	AA	GG	1946781986
SNP_P4_35793_36348394	NC_021162.1	Ca_kabuli_chr03	36348394	AA	GG	1946781988
SNP_P4_35794_36348399	NC_021162.1	Ca_kabuli_chr03	36348399	GG	TT	1946781991
SNP_P4_35795_36348405	NC_021162.1	Ca_kabuli_chr03	36348405	TT	CC	1946781993
SNP_P4_35796_36348412	NC_021162.1	Ca_kabuli_chr03	36348412	TT	CC	1946781995
SNP_P4_35798_36348803	NC_021162.1	Ca_kabuli_chr03	36348803	CC	GG	1946781997
SNP_P4_35799_36349026	NC_021162.1	Ca_kabuli_chr03	36349026	CC	TT	1946781999
SNP_P4_35800_36349033	NC_021162.1	Ca_kabuli_chr03	36349033	TT	AA	1946782001
SNP_P4_35801_36349045	NC_021162.1	Ca_kabuli_chr03	36349045	TT	CC	1946782003
SNP_P4_35802_36349083	NC_021162.1	Ca_kabuli_chr03	36349083	TT	AA	1946782005
SNP_P4_35803_36349087	NC_021162.1	Ca_kabuli_chr03	36349087	AA	TT	1946782007
SNP_P4_35804_36349173	NC_021162.1	Ca_kabuli_chr03	36349173	CC	TT	1946782009
SNP_P4_35805_36349182	NC_021162.1	Ca_kabuli_chr03	36349182	AA	GG	1946782011
SNP_P4_35807_36349210	NC_021162.1	Ca_kabuli_chr03	36349210	GG	CC	1946782013

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_35810_36349244	NC_021162.1	Ca_kabuli_chr03	36349244	AA	GG	1946782019
SNP_P4_35811_36349282	NC_021162.1	Ca_kabuli_chr03	36349282	TT	CC	1946782021
SNP_P4_35813_36349346	NC_021162.1	Ca_kabuli_chr03	36349346	TT	CC	1946782023
SNP_P4_35814_36349500	NC_021162.1	Ca_kabuli_chr03	36349500	AA	TT	1946782027
SNP_P4_35815_36349606	NC_021162.1	Ca_kabuli_chr03	36349606	GG	AA	1946782029
SNP_P4_35816_36349795	NC_021162.1	Ca_kabuli_chr03	36349795	CC	TT	1946782031
SNP_P4_35818_36350373	NC_021162.1	Ca_kabuli_chr03	36350373	CC	TT	1946782033
SNP_P4_35819_36350559	NC_021162.1	Ca_kabuli_chr03	36350559	CC	GG	1946782035
SNP_P4_35821_36351272	NC_021162.1	Ca_kabuli_chr03	36351272	TT	AA	1946782039
SNP_P4_35825_36351797	NC_021162.1	Ca_kabuli_chr03	36351797	CC	TT	1946782041
SNP_P4_35826_36351801	NC_021162.1	Ca_kabuli_chr03	36351801	GG	AA	1946782043
SNP_P4_35827_36351802	NC_021162.1	Ca_kabuli_chr03	36351802	AA	GG	1946782045
SNP_P4_35828_36351843	NC_021162.1	Ca_kabuli_chr03	36351843	GG	AA	1946782047
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SNP_P4_35831_36351908	NC_021162.1	Ca_kabuli_chr03	36351908	CC	AA	1946782054
SNP_P4_35832_36351938	NC_021162.1	Ca_kabuli_chr03	36351938	CC	TT	1946782056
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SNP_P4_35836_36352245	NC_021162.1	Ca_kabuli_chr03	36352245	GG	TT	1946782064
SNP_P4_35837_36352261	NC_021162.1	Ca_kabuli_chr03	36352261	AA	GG	1946782066
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SNP_P4_35846_36353664	NC_021162.1	Ca_kabuli_chr03	36353664	CC	GG	1946782085
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SNP_P4_35848_36353930	NC_021162.1	Ca_kabuli_chr03	36353930	CC	GG	1946782089
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SNP_P4_35850_36354113	NC_021162.1	Ca_kabuli_chr03	36354113	TT	CC	1946782093
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SNP_P4_35852_36354360	NC_021162.1	Ca_kabuli_chr03	36354360	AA	GG	1946782097
SNP_P4_35853_36354387	NC_021162.1	Ca_kabuli_chr03	36354387	CC	TT	1946782099
SNP_P4_35854_36354458	NC_021162.1	Ca_kabuli_chr03	36354458	GG	TT	1946782101
SNP_P4_35855_36354467	NC_021162.1	Ca_kabuli_chr03	36354467	GG	TT	1946782103

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_35858_36358042	NC_021162.1	Ca_kabuli_chr03	36358042	GG	AA	1946782109
SNP_P4_35859_36360676	NC_021162.1	Ca_kabuli_chr03	36360676	AA	GG	1946782111
SNP_P4_35860_36360707	NC_021162.1	Ca_kabuli_chr03	36360707	GG	AA	1946782113
SNP_P4_35861_36361380	NC_021162.1	Ca_kabuli_chr03	36361380	AA	GG	1946782115
SNP_P4_35862_36361604	NC_021162.1	Ca_kabuli_chr03	36361604	CC	TT	1946782117
SNP_P4_35864_36361668	NC_021162.1	Ca_kabuli_chr03	36361668	AA	TT	1946782119
SNP_P4_35865_36361902	NC_021162.1	Ca_kabuli_chr03	36361902	GG	CC	1946782121
SNP_P4_35866_36362831	NC_021162.1	Ca_kabuli_chr03	36362831	TT	AA	1946782123
SNP_P4_35867_36362854	NC_021162.1	Ca_kabuli_chr03	36362854	TT	CC	1946782125
SNP_P4_35868_36362864	NC_021162.1	Ca_kabuli_chr03	36362864	AA	TT	1946782127
SNP_P4_35870_36363042	NC_021162.1	Ca_kabuli_chr03	36363042	GG	AA	1946782129
SNP_P4_35872_36363374	NC_021162.1	Ca_kabuli_chr03	36363374	TT	GG	1946782131
SNP_P4_35874_36363711	NC_021162.1	Ca_kabuli_chr03	36363711	GG	AA	1946782133
SNP_P4_35875_36364388	NC_021162.1	Ca_kabuli_chr03	36364388	AA	TT	1946782135
SNP_P4_35876_36364660	NC_021162.1	Ca_kabuli_chr03	36364660	CC	TT	1946782137
SNP_P4_35877_36364847	NC_021162.1	Ca_kabuli_chr03	36364847	GG	CC	1946782139
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SNP_P4_35880_36365058	NC_021162.1	Ca_kabuli_chr03	36365058	CC	TT	1946782145
SNP_P4_35881_36365060	NC_021162.1	Ca_kabuli_chr03	36365060	AA	TT	1946782147
SNP_P4_35883_36368145	NC_021162.1	Ca_kabuli_chr03	36368145	TT	GG	1946782149
SNP_P4_35884_36369774	NC_021162.1	Ca_kabuli_chr03	36369774	TT	AA	1946782151
SNP_P4_35886_36370109	NC_021162.1	Ca_kabuli_chr03	36370109	GG	CC	1946782154
SNP_P4_35888_36371332	NC_021162.1	Ca_kabuli_chr03	36371332	GG	AA	1946782156
SNP_P4_35889_36371515	NC_021162.1	Ca_kabuli_chr03	36371515	TT	AA	1946782158
SNP_P4_35890_36371539	NC_021162.1	Ca_kabuli_chr03	36371539	TT	CC	1946782159
SNP_P4_35891_36371645	NC_021162.1	Ca_kabuli_chr03	36371645	TT	GG	1946782161
SNP_P4_35892_36371661	NC_021162.1	Ca_kabuli_chr03	36371661	GG	CC	1946782163
SNP_P4_35894_36371795	NC_021162.1	Ca_kabuli_chr03	36371795	GG	AA	1946782165
SNP_P4_35896_36371963	NC_021162.1	Ca_kabuli_chr03	36371963	CC	TT	1946782167
SNP_P4_35897_36372003	NC_021162.1	Ca_kabuli_chr03	36372003	AA	GG	1946782169
SNP_P4_35898_36372479	NC_021162.1	Ca_kabuli_chr03	36372479	AA	TT	1946782171
SNP_P4_35899_36374242	NC_021162.1	Ca_kabuli_chr03	36374242	TT	GG	1946782173
SNP_P4_35900_36374532	NC_021162.1	Ca_kabuli_chr03	36374532	CC	TT	1946782175
SNP_P4_35901_36374540	NC_021162.1	Ca_kabuli_chr03	36374540	TT	CC	1946782178
SNP_P4_35902_36374760	NC_021162.1	Ca_kabuli_chr03	36374760	CC	TT	1946782180
SNP_P4_35903_36374796	NC_021162.1	Ca_kabuli_chr03	36374796	GG	TT	1946782182
SNP_P4_35904_36374837	NC_021162.1	Ca_kabuli_chr03	36374837	TT	CC	1946782184
SNP_P4_35905_36378078	NC_021162.1	Ca_kabuli_chr03	36378078	AA	GG	1946782186
SNP_P4_35906_36379856	NC_021162.1	Ca_kabuli_chr03	36379856	AA	CC	1946782188

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_35910_36381706	NC_021162.1	Ca_kabuli_chr03	36381706	CC	GG	1946782194
SNP_P4_35911_36381726	NC_021162.1	Ca_kabuli_chr03	36381726	GG	AA	1946782196
SNP_P4_35912_36381728	NC_021162.1	Ca_kabuli_chr03	36381728	CC	TT	1946782198
SNP_P4_35913_36381734	NC_021162.1	Ca_kabuli_chr03	36381734	TT	CC	1946782200
SNP_P4_35914_36381765	NC_021162.1	Ca_kabuli_chr03	36381765	TT	CC	1946782202
SNP_P4_35916_36381801	NC_021162.1	Ca_kabuli_chr03	36381801	TT	CC	1946782204
SNP_P4_35917_36381823	NC_021162.1	Ca_kabuli_chr03	36381823	CC	TT	1946782206
SNP_P4_35918_36381826	NC_021162.1	Ca_kabuli_chr03	36381826	AA	GG	1946782208
SNP_P4_35919_36381849	NC_021162.1	Ca_kabuli_chr03	36381849	GG	AA	1946782210
SNP_P4_35920_36381854	NC_021162.1	Ca_kabuli_chr03	36381854	TT	CC	1946782212
SNP_P4_35921_36381912	NC_021162.1	Ca_kabuli_chr03	36381912	CC	GG	1946782214
SNP_P4_35922_36382089	NC_021162.1	Ca_kabuli_chr03	36382089	GG	AA	1946782216
SNP_P4_35923_36382110	NC_021162.1	Ca_kabuli_chr03	36382110	GG	TT	1946782218
SNP_P4_35924_36382293	NC_021162.1	Ca_kabuli_chr03	36382293	TT	CC	1946782220
SNP_P4_35925_36382299	NC_021162.1	Ca_kabuli_chr03	36382299	GG	AA	1946782222
SNP_P4_35926_36382302	NC_021162.1	Ca_kabuli_chr03	36382302	AA	GG	1946782224
SNP_P4_35927_36385802	NC_021162.1	Ca_kabuli_chr03	36385802	CC	TT	1946782226
SNP_P4_35928_36385905	NC_021162.1	Ca_kabuli_chr03	36385905	GG	AA	1946782228
SNP_P4_35929_36385926	NC_021162.1	Ca_kabuli_chr03	36385926	CC	AA	1946782230
SNP_P4_35930_36385933	NC_021162.1	Ca_kabuli_chr03	36385933	AA	CC	1946782232
SNP_P4_35931_36385934	NC_021162.1	Ca_kabuli_chr03	36385934	TT	CC	1946782234
SNP_P4_35932_36386074	NC_021162.1	Ca_kabuli_chr03	36386074	GG	AA	1946782237
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SNP_P4_35937_36387464	NC_021162.1	Ca_kabuli_chr03	36387464	GG	TT	1946782247
SNP_P4_35939_36387762	NC_021162.1	Ca_kabuli_chr03	36387762	GG	AA	1946782249
SNP_P4_35940_36389096	NC_021162.1	Ca_kabuli_chr03	36389096	GG	AA	1946782251
SNP_P4_35941_36389394	NC_021162.1	Ca_kabuli_chr03	36389394	AA	TT	1946782253
SNP_P4_35942_36389601	NC_021162.1	Ca_kabuli_chr03	36389601	CC	AA	1946782255
SNP_P4_35943_36392070	NC_021162.1	Ca_kabuli_chr03	36392070	TT	CC	1946782257
SNP_P4_35944_36392074	NC_021162.1	Ca_kabuli_chr03	36392074	GG	TT	1946782259
SNP_P4_35947_36392529	NC_021162.1	Ca_kabuli_chr03	36392529	TT	CC	1946782261
SNP_P4_35948_36392867	NC_021162.1	Ca_kabuli_chr03	36392867	GG	AA	1946782263
SNP_P4_35949_36397269	NC_021162.1	Ca_kabuli_chr03	36397269	TT	GG	1946782265
SNP_P4_35950_36399137	NC_021162.1	Ca_kabuli_chr03	36399137	AA	GG	1946782267
SNP_P4_35951_36399415	NC_021162.1	Ca_kabuli_chr03	36399415	TT	CC	1946782269
SNP_P4_35952_36400040	NC_021162.1	Ca_kabuli_chr03	36400040	CC	AA	1946782271
SNP_P4_35953_36400041	NC_021162.1	Ca_kabuli_chr03	36400041	TT	CC	1946782273

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_35957_36401254	NC_021162.1	Ca_kabuli_chr03	36401254	GG	AA	1946782279
SNP_P4_35958_36403077	NC_021162.1	Ca_kabuli_chr03	36403077	AA	GG	1946782281
SNP_P4_35959_36403086	NC_021162.1	Ca_kabuli_chr03	36403086	TT	GG	1946782284
SNP_P4_35960_36403373	NC_021162.1	Ca_kabuli_chr03	36403373	AA	CC	1946782286
SNP_P4_35961_36403379	NC_021162.1	Ca_kabuli_chr03	36403379	GG	AA	1946782288
SNP_P4_35962_36403413	NC_021162.1	Ca_kabuli_chr03	36403413	TT	CC	1946782290
SNP_P4_35963_36403423	NC_021162.1	Ca_kabuli_chr03	36403423	AA	GG	1946782292
SNP_P4_35964_36403444	NC_021162.1	Ca_kabuli_chr03	36403444	TT	CC	1946782294
SNP_P4_35965_36403551	NC_021162.1	Ca_kabuli_chr03	36403551	AA	GG	1946782296
SNP_P4_35967_36403586	NC_021162.1	Ca_kabuli_chr03	36403586	AA	GG	1946782298
SNP_P4_35968_36403643	NC_021162.1	Ca_kabuli_chr03	36403643	GG	AA	1946782300
SNP_P4_35969_36403656	NC_021162.1	Ca_kabuli_chr03	36403656	GG	AA	1946782302
SNP_P4_35970_36403726	NC_021162.1	Ca_kabuli_chr03	36403726	TT	GG	1946782304
SNP_P4_35971_36403750	NC_021162.1	Ca_kabuli_chr03	36403750	TT	GG	1946782307
SNP_P4_35972_36403926	NC_021162.1	Ca_kabuli_chr03	36403926	AA	GG	1946782309
SNP_P4_35973_36403952	NC_021162.1	Ca_kabuli_chr03	36403952	TT	CC	1946782311
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SNP_P4_35976_36404908	NC_021162.1	Ca_kabuli_chr03	36404908	GG	AA	1946782315
SNP_P4_35977_36405245	NC_021162.1	Ca_kabuli_chr03	36405245	GG	CC	1946782316
SNP_P4_35978_36410759	NC_021162.1	Ca_kabuli_chr03	36410759	AA	GG	1946782318
SNP_P4_35979_36410761	NC_021162.1	Ca_kabuli_chr03	36410761	CC	AA	1946782320
SNP_P4_35980_36412292	NC_021162.1	Ca_kabuli_chr03	36412292	CC	AA	1946782322
SNP_P4_35982_36412835	NC_021162.1	Ca_kabuli_chr03	36412835	TT	GG	1946782324
SNP_P4_35983_36412852	NC_021162.1	Ca_kabuli_chr03	36412852	TT	CC	1946782326
SNP_P4_35984_36413350	NC_021162.1	Ca_kabuli_chr03	36413350	CC	AA	1946782328
SNP_P4_35985_36413801	NC_021162.1	Ca_kabuli_chr03	36413801	TT	CC	1946782330
SNP_P4_35987_36414988	NC_021162.1	Ca_kabuli_chr03	36414988	TT	GG	1946782332
SNP_P4_35988_36415012	NC_021162.1	Ca_kabuli_chr03	36415012	AA	GG	1946782334
SNP_P4_35990_36415428	NC_021162.1	Ca_kabuli_chr03	36415428	GG	AA	1946782336
SNP_P4_35991_36415438	NC_021162.1	Ca_kabuli_chr03	36415438	AA	CC	1946782338
SNP_P4_35992_36416393	NC_021162.1	Ca_kabuli_chr03	36416393	GG	AA	1946782340
SNP_P4_35994_36416652	NC_021162.1	Ca_kabuli_chr03	36416652	AA	GG	1946782342
SNP_P4_35995_36416710	NC_021162.1	Ca_kabuli_chr03	36416710	AA	GG	1946782344
SNP_P4_35996_36416732	NC_021162.1	Ca_kabuli_chr03	36416732	GG	AA	1946782346
SNP_P4_35997_36417057	NC_021162.1	Ca_kabuli_chr03	36417057	GG	AA	1946782348
SNP_P4_35998_36419464	NC_021162.1	Ca_kabuli_chr03	36419464	TT	CC	1946782350
SNP_P4_35999_36419471	NC_021162.1	Ca_kabuli_chr03	36419471	CC	GG	1946782352
SNP_P4_36000_36419477	NC_021162.1	Ca_kabuli_chr03	36419477	GG	CC	1946782354
SNP_P4_36001_36419500	NC_021162.1	Ca_kabuli_chr03	36419500	TT	CC	1946782356
SNP_P4_36002_36419609	NC_021162.1	Ca_kabuli_chr03	36419609	TT	CC	1946782358

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_36004_36419716	NC_021162.1	Ca_kabuli_chr03	36419716	CC	TT	1946782363
SNP_P4_36005_36419732	NC_021162.1	Ca_kabuli_chr03	36419732	GG	AA	1946782365
SNP_P4_36006_36419740	NC_021162.1	Ca_kabuli_chr03	36419740	TT	CC	1946782367
SNP_P4_36007_36419757	NC_021162.1	Ca_kabuli_chr03	36419757	CC	TT	1946782369
SNP_P4_36009_36419919	NC_021162.1	Ca_kabuli_chr03	36419919	AA	GG	1946782371
SNP_P4_36010_36419925	NC_021162.1	Ca_kabuli_chr03	36419925	AA	GG	1946782373
SNP_P4_36011_36419949	NC_021162.1	Ca_kabuli_chr03	36419949	CC	TT	1946782375
SNP_P4_36012_36419950	NC_021162.1	Ca_kabuli_chr03	36419950	AA	GG	1946782377
SNP_P4_36013_36420013	NC_021162.1	Ca_kabuli_chr03	36420013	TT	CC	1946782379
SNP_P4_36014_36420015	NC_021162.1	Ca_kabuli_chr03	36420015	AA	GG	1946782381
SNP_P4_36017_36420412	NC_021162.1	Ca_kabuli_chr03	36420412	CC	GG	1946782383
SNP_P4_36018_36420670	NC_021162.1	Ca_kabuli_chr03	36420670	GG	AA	1946782385
SNP_P4_36020_36421226	NC_021162.1	Ca_kabuli_chr03	36421226	TT	CC	1946782387
SNP_P4_36021_36421979	NC_021162.1	Ca_kabuli_chr03	36421979	GG	AA	1946782389
SNP_P4_36022_36422053	NC_021162.1	Ca_kabuli_chr03	36422053	CC	AA	1946782391
SNP_P4_36023_36422628	NC_021162.1	Ca_kabuli_chr03	36422628	GG	AA	1946782393
SNP_P4_36024_36422696	NC_021162.1	Ca_kabuli_chr03	36422696	AA	TT	1946782395
SNP_P4_36025_36424067	NC_021162.1	Ca_kabuli_chr03	36424067	AA	GG	1946782397
SNP_P4_36029_36430342	NC_021162.1	Ca_kabuli_chr03	36430342	TT	CC	1946782399
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SNP_P4_36031_36430584	NC_021162.1	Ca_kabuli_chr03	36430584	CC	TT	1946782404
SNP_P4_36032_36431901	NC_021162.1	Ca_kabuli_chr03	36431901	TT	CC	1946782406
SNP_P4_36034_36432591	NC_021162.1	Ca_kabuli_chr03	36432591	TT	AA	1946782408
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SNP_P4_36037_36432784	NC_021162.1	Ca_kabuli_chr03	36432784	AA	CC	1946782412
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SNP_P4_36040_36437338	NC_021162.1	Ca_kabuli_chr03	36437338	GG	AA	1946782418
SNP_P4_36041_36437630	NC_021162.1	Ca_kabuli_chr03	36437630	GG	TT	1946782420
SNP_P4_36042_36438656	NC_021162.1	Ca_kabuli_chr03	36438656	TT	CC	1946782422
SNP_P4_36043_36438974	NC_021162.1	Ca_kabuli_chr03	36438974	AA	CC	1946782424
SNP_P4_36044_36439025	NC_021162.1	Ca_kabuli_chr03	36439025	CC	TT	1946782426
SNP_P4_36045_36439074	NC_021162.1	Ca_kabuli_chr03	36439074	CC	TT	1946782428
SNP_P4_36046_36439280	NC_021162.1	Ca_kabuli_chr03	36439280	AA	CC	1946782430
SNP_P4_36047_36440093	NC_021162.1	Ca_kabuli_chr03	36440093	GG	TT	1946782433
SNP_P4_36048_36440156	NC_021162.1	Ca_kabuli_chr03	36440156	AA	GG	1946782435
SNP_P4_36049_36440168	NC_021162.1	Ca_kabuli_chr03	36440168	TT	CC	1946782438
SNP_P4_36050_36440266	NC_021162.1	Ca_kabuli_chr03	36440266	CC	AA	1946782440
SNP_P4_36051_36440278	NC_021162.1	Ca_kabuli_chr03	36440278	GG	AA	1946782443
SNP_P4_36052_36440282	NC_021162.1	Ca_kabuli_chr03	36440282	TT	GG	1946782445
SNP_P4_36053_36440295	NC_021162.1	Ca_kabuli_chr03	36440295	AA	GG	1946782447

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_36056_36440658	NC_021162.1	Ca_kabuli_chr03	36440658	AA	GG	1946782453
SNP_P4_36057_36440691	NC_021162.1	Ca_kabuli_chr03	36440691	TT	CC	1946782455
SNP_P4_36058_36440715	NC_021162.1	Ca_kabuli_chr03	36440715	AA	GG	1946782458
SNP_P4_36059_36440832	NC_021162.1	Ca_kabuli_chr03	36440832	AA	GG	1946782460
SNP_P4_36060_36441106	NC_021162.1	Ca_kabuli_chr03	36441106	TT	AA	1946782462
SNP_P4_36061_36442468	NC_021162.1	Ca_kabuli_chr03	36442468	AA	GG	1946782464
SNP_P4_36062_36443225	NC_021162.1	Ca_kabuli_chr03	36443225	GG	AA	1946782466
SNP_P4_36063_36444230	NC_021162.1	Ca_kabuli_chr03	36444230	CC	GG	1946782468
SNP_P4_36064_36444401	NC_021162.1	Ca_kabuli_chr03	36444401	CC	TT	1946782470
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SNP_P4_36071_36445915	NC_021162.1	Ca_kabuli_chr03	36445915	TT	AA	1946782481
SNP_P4_36072_36446102	NC_021162.1	Ca_kabuli_chr03	36446102	AA	TT	1946782483
SNP_P4_36073_36446106	NC_021162.1	Ca_kabuli_chr03	36446106	TT	AA	1946782485
SNP_P4_36074_36446112	NC_021162.1	Ca_kabuli_chr03	36446112	AA	TT	1946782487
SNP_P4_36075_36446117	NC_021162.1	Ca_kabuli_chr03	36446117	AA	GG	1946782489
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SNP_P4_36078_36447120	NC_021162.1	Ca_kabuli_chr03	36447120	TT	AA	1946782493
SNP_P4_36079_36447122	NC_021162.1	Ca_kabuli_chr03	36447122	CC	GG	1946782496
SNP_P4_36080_36447129	NC_021162.1	Ca_kabuli_chr03	36447129	CC	TT	1946782498
SNP_P4_36082_36447274	NC_021162.1	Ca_kabuli_chr03	36447274	GG	AA	1946782501
SNP_P4_36083_36447666	NC_021162.1	Ca_kabuli_chr03	36447666	AA	TT	1946782503
SNP_P4_36084_36447733	NC_021162.1	Ca_kabuli_chr03	36447733	AA	GG	1946782505
SNP_P4_36085_36448355	NC_021162.1	Ca_kabuli_chr03	36448355	AA	CC	1946782507
SNP_P4_36086_36448556	NC_021162.1	Ca_kabuli_chr03	36448556	GG	AA	1946782509
SNP_P4_36090_36448792	NC_021162.1	Ca_kabuli_chr03	36448792	GG	CC	1946782511
SNP_P4_36091_36449623	NC_021162.1	Ca_kabuli_chr03	36449623	CC	AA	1946782513
SNP_P4_36092_36450362	NC_021162.1	Ca_kabuli_chr03	36450362	TT	GG	1946782515
SNP_P4_36093_36456323	NC_021162.1	Ca_kabuli_chr03	36456323	TT	AA	1946782517
SNP_P4_36094_36475114	NC_021162.1	Ca_kabuli_chr03	36475114	GG	AA	1946782519
SNP_P4_36095_36475811	NC_021162.1	Ca_kabuli_chr03	36475811	AA	CC	1946782521
SNP_P4_36096_36475872	NC_021162.1	Ca_kabuli_chr03	36475872	TT	CC	1946782523
SNP_P4_36097_36476413	NC_021162.1	Ca_kabuli_chr03	36476413	TT	GG	1946782525
SNP_P4_36098_36476535	NC_021162.1	Ca_kabuli_chr03	36476535	TT	GG	1946782527
SNP_P4_36100_36483110	NC_021162.1	Ca_kabuli_chr03	36483110	TT	CC	1946782529
SNP_P4_36101_36483794	NC_021162.1	Ca_kabuli_chr03	36483794	CC	TT	1946782531
SNP_P4_36105_36518481	NC_021162.1	Ca_kabuli_chr03	36518481	AA	TT	1946782533
SNP_P4_36107_36533121	NC_021162.1	Ca_kabuli_chr03	36533121	AA	CC	1946782535

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_36109_36545621	NC_021162.1	Ca_kabuli_chr03	36545621	TT	GG	1946782540
SNP_P4_36110_36554821	NC_021162.1	Ca_kabuli_chr03	36554821	GG	AA	1946782542
SNP_P4_36111_36565195	NC_021162.1	Ca_kabuli_chr03	36565195	GG	AA	1946782544
SNP_P4_36112_36580553	NC_021162.1	Ca_kabuli_chr03	36580553	AA	GG	1946782546
SNP_P4_36113_36596015	NC_021162.1	Ca_kabuli_chr03	36596015	TT	CC	1946782548
SNP_P4_36114_36596017	NC_021162.1	Ca_kabuli_chr03	36596017	TT	GG	1946782550
SNP_P4_36115_36613808	NC_021162.1	Ca_kabuli_chr03	36613808	TT	GG	1946782552
SNP_P4_36116_36637601	NC_021162.1	Ca_kabuli_chr03	36637601	GG	AA	1946782554
SNP_P4_36117_36638102	NC_021162.1	Ca_kabuli_chr03	36638102	CC	TT	1946782556
SNP_P4_36119_36639214	NC_021162.1	Ca_kabuli_chr03	36639214	AA	TT	1946782558
SNP_P4_36120_36642488	NC_021162.1	Ca_kabuli_chr03	36642488	CC	TT	1946782560
SNP_P4_36121_36658890	NC_021162.1	Ca_kabuli_chr03	36658890	TT	AA	1946782562
SNP_P4_36123_36673647	NC_021162.1	Ca_kabuli_chr03	36673647	CC	TT	1946782564
SNP_P4_36124_36693503	NC_021162.1	Ca_kabuli_chr03	36693503	CC	TT	1946782566
SNP_P4_36125_36699805	NC_021162.1	Ca_kabuli_chr03	36699805	GG	AA	1946782568
SNP_P4_36126_36704216	NC_021162.1	Ca_kabuli_chr03	36704216	GG	TT	1946782570
SNP_P4_36127_36706225	NC_021162.1	Ca_kabuli_chr03	36706225	TT	CC	1946782572
SNP_P4_36128_36714043	NC_021162.1	Ca_kabuli_chr03	36714043	AA	GG	1946782575
SNP_P4_36129_36738475	NC_021162.1	Ca_kabuli_chr03	36738475	GG	CC	1946782578
SNP_P4_36131_36745118	NC_021162.1	Ca_kabuli_chr03	36745118	TT	GG	1946782580
SNP_P4_36132_36746779	NC_021162.1	Ca_kabuli_chr03	36746779	CC	TT	1946782582
SNP_P4_36133_36756726	NC_021162.1	Ca_kabuli_chr03	36756726	GG	CC	1946782584
SNP_P4_36134_36762313	NC_021162.1	Ca_kabuli_chr03	36762313	GG	TT	1946782586
SNP_P4_36135_36771191	NC_021162.1	Ca_kabuli_chr03	36771191	CC	TT	1946782588
SNP_P4_36136_36815168	NC_021162.1	Ca_kabuli_chr03	36815168	TT	CC	1946782590
SNP_P4_36137_36818074	NC_021162.1	Ca_kabuli_chr03	36818074	CC	TT	1946782592
SNP_P4_36138_36827674	NC_021162.1	Ca_kabuli_chr03	36827674	TT	CC	1946782595
SNP_P4_36139_36827678	NC_021162.1	Ca_kabuli_chr03	36827678	TT	GG	1946782597
SNP_P4_36141_36845456	NC_021162.1	Ca_kabuli_chr03	36845456	GG	AA	1946782599
SNP_P4_36143_36872943	NC_021162.1	Ca_kabuli_chr03	36872943	TT	GG	1946782601
SNP_P4_36144_36898002	NC_021162.1	Ca_kabuli_chr03	36898002	GG	TT	1946782604
SNP_P4_36146_36937312	NC_021162.1	Ca_kabuli_chr03	36937312	TT	AA	1946782606
SNP_P4_36147_36937327	NC_021162.1	Ca_kabuli_chr03	36937327	TT	GG	1946782608
SNP_P4_36148_36942005	NC_021162.1	Ca_kabuli_chr03	36942005	CC	AA	1946782610
SNP_P4_36149_36942006	NC_021162.1	Ca_kabuli_chr03	36942006	AA	TT	1946782612
SNP_P4_36150_36968988	NC_021162.1	Ca_kabuli_chr03	36968988	GG	AA	1946782614
SNP_P4_36151_36984582	NC_021162.1	Ca_kabuli_chr03	36984582	TT	AA	1946782616
SNP_P4_36152_36985776	NC_021162.1	Ca_kabuli_chr03	36985776	CC	AA	1946782618
SNP_P4_36154_36989013	NC_021162.1	Ca_kabuli_chr03	36989013	AA	TT	1946782620
SNP_P4_36156_37014682	NC_021162.1	Ca_kabuli_chr03	37014682	AA	GG	1946782622
SNP_P4_36158_37026533	NC_021162.1	Ca_kabuli_chr03	37026533	CC	TT	1946782624

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_36161_37043961	NC_021162.1	Ca_kabuli_chr03	37043961	AA	GG	1946782629
SNP_P4_36163_37128186	NC_021162.1	Ca_kabuli_chr03	37128186	CC	TT	1946782633
SNP_P4_36164_37133206	NC_021162.1	Ca_kabuli_chr03	37133206	AA	GG	1946782635
SNP_P4_36165_37133544	NC_021162.1	Ca_kabuli_chr03	37133544	CC	TT	1946782638
SNP_P4_36166_37149694	NC_021162.1	Ca_kabuli_chr03	37149694	TT	CC	1946782640
SNP_P4_36168_37180770	NC_021162.1	Ca_kabuli_chr03	37180770	AA	CC	1946782642
SNP_P4_36169_37182310	NC_021162.1	Ca_kabuli_chr03	37182310	TT	AA	1946782644
SNP_P4_36170_37184895	NC_021162.1	Ca_kabuli_chr03	37184895	AA	TT	1946782646
SNP_P4_36174_37224785	NC_021162.1	Ca_kabuli_chr03	37224785	AA	TT	1946782648
SNP_P4_36175_37231146	NC_021162.1	Ca_kabuli_chr03	37231146	TT	AA	1946782651
SNP_P4_36176_37238131	NC_021162.1	Ca_kabuli_chr03	37238131	TT	AA	1946782653
SNP_P4_36178_37245624	NC_021162.1	Ca_kabuli_chr03	37245624	AA	TT	1946782655
SNP_P4_36179_37247804	NC_021162.1	Ca_kabuli_chr03	37247804	AA	CC	1946782657
SNP_P4_36180_37255763	NC_021162.1	Ca_kabuli_chr03	37255763	TT	AA	1946782659
SNP_P4_36181_37259203	NC_021162.1	Ca_kabuli_chr03	37259203	TT	CC	1946782661
SNP_P4_36182_37348037	NC_021162.1	Ca_kabuli_chr03	37348037	TT	AA	1946782663
SNP_P4_36183_37348040	NC_021162.1	Ca_kabuli_chr03	37348040	AA	CC	1946782666
SNP_P4_36184_37349467	NC_021162.1	Ca_kabuli_chr03	37349467	AA	GG	1946782668
SNP_P4_36186_37365740	NC_021162.1	Ca_kabuli_chr03	37365740	GG	AA	1946782670
SNP_P4_36187_37366065	NC_021162.1	Ca_kabuli_chr03	37366065	TT	GG	1946782672
SNP_P4_36188_37367472	NC_021162.1	Ca_kabuli_chr03	37367472	TT	CC	1946782674
SNP_P4_36191_37394790	NC_021162.1	Ca_kabuli_chr03	37394790	AA	GG	1946782677
SNP_P4_36192_37396163	NC_021162.1	Ca_kabuli_chr03	37396163	TT	CC	1946782679
SNP_P4_36194_37409331	NC_021162.1	Ca_kabuli_chr03	37409331	CC	TT	1946782681
SNP_P4_36195_37409399	NC_021162.1	Ca_kabuli_chr03	37409399	GG	AA	1946782683
SNP_P4_36197_37454456	NC_021162.1	Ca_kabuli_chr03	37454456	TT	AA	1946782685
SNP_P4_36198_37484401	NC_021162.1	Ca_kabuli_chr03	37484401	GG	AA	1946782688
SNP_P4_36200_37487034	NC_021162.1	Ca_kabuli_chr03	37487034	GG	TT	1946782690
SNP_P4_36201_37492313	NC_021162.1	Ca_kabuli_chr03	37492313	TT	AA	1946782692
SNP_P4_36202_37502257	NC_021162.1	Ca_kabuli_chr03	37502257	CC	TT	1946782694
SNP_P4_36203_37519659	NC_021162.1	Ca_kabuli_chr03	37519659	AA	TT	1946782696
SNP_P4_36204_37519660	NC_021162.1	Ca_kabuli_chr03	37519660	AA	TT	1946782698
SNP_P4_36206_37613636	NC_021162.1	Ca_kabuli_chr03	37613636	CC	TT	1946782700
SNP_P4_36207_37704613	NC_021162.1	Ca_kabuli_chr03	37704613	AA	GG	1946782703
SNP_P4_36208_37704714	NC_021162.1	Ca_kabuli_chr03	37704714	CC	TT	1946782705
SNP_P4_36209_37718173	NC_021162.1	Ca_kabuli_chr03	37718173	CC	TT	1946782707
SNP_P4_36210_37718792	NC_021162.1	Ca_kabuli_chr03	37718792	TT	CC	1946782709
SNP_P4_36211_37718844	NC_021162.1	Ca_kabuli_chr03	37718844	AA	GG	1946782711
SNP_P4_36212_37718862	NC_021162.1	Ca_kabuli_chr03	37718862	GG	AA	1946782713
SNP_P4_36213_37718909	NC_021162.1	Ca_kabuli_chr03	37718909	TT	AA	1946782715
SNP_P4_36215_37719632	NC_021162.1	Ca_kabuli_chr03	37719632	GG	AA	1946782717

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_36217_37719653	NC_021162.1	Ca_kabuli_chr03	37719653	TT	CC	1946782722
SNP_P4_36218_37721295	NC_021162.1	Ca_kabuli_chr03	37721295	TT	AA	1946782724
SNP_P4_36219_37724976	NC_021162.1	Ca_kabuli_chr03	37724976	GG	AA	1946782726
SNP_P4_36220_37727104	NC_021162.1	Ca_kabuli_chr03	37727104	GG	AA	1946782728
SNP_P4_36221_37727135	NC_021162.1	Ca_kabuli_chr03	37727135	AA	GG	1946782730
SNP_P4_36222_37727226	NC_021162.1	Ca_kabuli_chr03	37727226	AA	TT	1946782732
SNP_P4_36223_37727230	NC_021162.1	Ca_kabuli_chr03	37727230	TT	GG	1946782734
SNP_P4_36224_37727232	NC_021162.1	Ca_kabuli_chr03	37727232	AA	TT	1946782737
SNP_P4_36225_37727529	NC_021162.1	Ca_kabuli_chr03	37727529	TT	AA	1946782738
SNP_P4_36226_37732805	NC_021162.1	Ca_kabuli_chr03	37732805	AA	CC	1946782739
SNP_P4_36228_37741378	NC_021162.1	Ca_kabuli_chr03	37741378	TT	AA	1946782740
SNP_P4_36229_37743751	NC_021162.1	Ca_kabuli_chr03	37743751	CC	GG	1946782741
SNP_P4_36230_37743754	NC_021162.1	Ca_kabuli_chr03	37743754	GG	AA	1946782742
SNP_P4_36232_37764232	NC_021162.1	Ca_kabuli_chr03	37764232	GG	AA	1946782744
SNP_P4_36233_37764242	NC_021162.1	Ca_kabuli_chr03	37764242	TT	CC	1946782746
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SNP_P4_36239_37765415	NC_021162.1	Ca_kabuli_chr03	37765415	AA	CC	1946782759
SNP_P4_36240_37768893	NC_021162.1	Ca_kabuli_chr03	37768893	TT	CC	1946782761
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SNP_P4_36244_37793943	NC_021162.1	Ca_kabuli_chr03	37793943	AA	GG	1946782769
SNP_P4_36245_37808276	NC_021162.1	Ca_kabuli_chr03	37808276	TT	AA	1946782771
SNP_P4_36246_37808282	NC_021162.1	Ca_kabuli_chr03	37808282	AA	TT	1946782773
SNP_P4_36247_37808284	NC_021162.1	Ca_kabuli_chr03	37808284	CC	TT	1946782775
SNP_P4_36248_37811339	NC_021162.1	Ca_kabuli_chr03	37811339	GG	TT	1946782777
SNP_P4_36250_37853449	NC_021162.1	Ca_kabuli_chr03	37853449	AA	GG	1946782780
SNP_P4_36251_37859803	NC_021162.1	Ca_kabuli_chr03	37859803	CC	AA	1946782782
SNP_P4_36253_37884343	NC_021162.1	Ca_kabuli_chr03	37884343	GG	AA	1946782784
SNP_P4_36254_37896137	NC_021162.1	Ca_kabuli_chr03	37896137	TT	CC	1946782787
SNP_P4_36255_37900347	NC_021162.1	Ca_kabuli_chr03	37900347	GG	AA	1946782789
SNP_P4_36256_37900602	NC_021162.1	Ca_kabuli_chr03	37900602	TT	CC	1946782791
SNP_P4_36257_37904577	NC_021162.1	Ca_kabuli_chr03	37904577	TT	CC	1946782793
SNP_P4_36258_37943258	NC_021162.1	Ca_kabuli_chr03	37943258	GG	TT	1946782795
SNP_P4_36259_37954075	NC_021162.1	Ca_kabuli_chr03	37954075	CC	TT	1946782797
SNP_P4_36260_37969020	NC_021162.1	Ca_kabuli_chr03	37969020	AA	TT	1946782799
SNP_P4_36261_37990261	NC_021162.1	Ca_kabuli_chr03	37990261	TT	GG	1946782801

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_36265_38060742	NC_021162.1	Ca_kabuli_chr03	38060742	CC	TT	1946782806
SNP_P4_36267_38101023	NC_021162.1	Ca_kabuli_chr03	38101023	TT	CC	1946782808
SNP_P4_36268_38102241	NC_021162.1	Ca_kabuli_chr03	38102241	GG	CC	1946782810
SNP_P4_36269_38115938	NC_021162.1	Ca_kabuli_chr03	38115938	GG	AA	1946782812
SNP_P4_36271_38130334	NC_021162.1	Ca_kabuli_chr03	38130334	AA	TT	1946782814
SNP_P4_36272_38135369	NC_021162.1	Ca_kabuli_chr03	38135369	GG	AA	1946782816
SNP_P4_36273_38135747	NC_021162.1	Ca_kabuli_chr03	38135747	TT	AA	1946782818
SNP_P4_36274_38137190	NC_021162.1	Ca_kabuli_chr03	38137190	AA	GG	1946782821
SNP_P4_36275_38137708	NC_021162.1	Ca_kabuli_chr03	38137708	CC	TT	1946782823
SNP_P4_36276_38137739	NC_021162.1	Ca_kabuli_chr03	38137739	AA	CC	1946782825
SNP_P4_36277_38138970	NC_021162.1	Ca_kabuli_chr03	38138970	AA	GG	1946782827
SNP_P4_36278_38139313	NC_021162.1	Ca_kabuli_chr03	38139313	GG	TT	1946782829
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SNP_P4_36280_38139925	NC_021162.1	Ca_kabuli_chr03	38139925	GG	CC	1946782833
SNP_P4_36281_38140632	NC_021162.1	Ca_kabuli_chr03	38140632	CC	TT	1946782835
SNP_P4_36282_38140951	NC_021162.1	Ca_kabuli_chr03	38140951	AA	TT	1946782837
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SNP_P4_36284_38142182	NC_021162.1	Ca_kabuli_chr03	38142182	TT	CC	1946782842
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SNP_P4_36289_38142463	NC_021162.1	Ca_kabuli_chr03	38142463	AA	CC	1946782850
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SNP_P4_36292_38142957	NC_021162.1	Ca_kabuli_chr03	38142957	CC	TT	1946782856
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SNP_P4_36297_38146319	NC_021162.1	Ca_kabuli_chr03	38146319	GG	CC	1946782863
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SNP_P4_36299_38146361	NC_021162.1	Ca_kabuli_chr03	38146361	TT	CC	1946782867
SNP_P4_36300_38146393	NC_021162.1	Ca_kabuli_chr03	38146393	TT	CC	1946782869
SNP_P4_36301_38147883	NC_021162.1	Ca_kabuli_chr03	38147883	GG	AA	1946782871
SNP_P4_36302_38149544	NC_021162.1	Ca_kabuli_chr03	38149544	CC	TT	1946782873
SNP_P4_36303_38155246	NC_021162.1	Ca_kabuli_chr03	38155246	AA	TT	1946782875
SNP_P4_36304_38155280	NC_021162.1	Ca_kabuli_chr03	38155280	GG	AA	1946782877
SNP_P4_36306_38155487	NC_021162.1	Ca_kabuli_chr03	38155487	AA	GG	1946782880
SNP_P4_36307_38155926	NC_021162.1	Ca_kabuli_chr03	38155926	TT	CC	1946782882
SNP_P4_36308_38155985	NC_021162.1	Ca_kabuli_chr03	38155985	CC	TT	1946782884
SNP_P4_36310_38157073	NC_021162.1	Ca_kabuli_chr03	38157073	TT	AA	1946782886
SNP_P4_36311_38157743	NC_021162.1	Ca_kabuli_chr03	38157743	CC	AA	1946782888
SNP_P4_36312_38157747	NC_021162.1	Ca_kabuli_chr03	38157747	AA	GG	1946782890

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_36316_38163509	NC_021162.1	Ca_kabuli_chr03	38163509	AA	GG	1946782896
SNP_P4_36317_38165274	NC_021162.1	Ca_kabuli_chr03	38165274	TT	AA	1946782899
SNP_P4_36318_38168137	NC_021162.1	Ca_kabuli_chr03	38168137	CC	GG	1946782901
SNP_P4_36319_38168358	NC_021162.1	Ca_kabuli_chr03	38168358	AA	CC	1946782903
SNP_P4_36320_38168364	NC_021162.1	Ca_kabuli_chr03	38168364	TT	AA	1946782905
SNP_P4_36321_38168787	NC_021162.1	Ca_kabuli_chr03	38168787	AA	CC	1946782907
SNP_P4_36322_38169101	NC_021162.1	Ca_kabuli_chr03	38169101	GG	AA	1946782909
SNP_P4_36323_38169157	NC_021162.1	Ca_kabuli_chr03	38169157	AA	GG	1946782911
SNP_P4_36324_38169685	NC_021162.1	Ca_kabuli_chr03	38169685	GG	AA	1946782913
SNP_P4_36325_38169968	NC_021162.1	Ca_kabuli_chr03	38169968	AA	TT	1946782915
SNP_P4_36327_38171015	NC_021162.1	Ca_kabuli_chr03	38171015	GG	AA	1946782917
SNP_P4_36328_38171153	NC_021162.1	Ca_kabuli_chr03	38171153	CC	TT	1946782919
SNP_P4_36329_38171400	NC_021162.1	Ca_kabuli_chr03	38171400	CC	TT	1946782921
SNP_P4_36330_38171434	NC_021162.1	Ca_kabuli_chr03	38171434	GG	AA	1946782923
SNP_P4_36331_38174079	NC_021162.1	Ca_kabuli_chr03	38174079	CC	TT	1946782925
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SNP_P4_36336_38174575	NC_021162.1	Ca_kabuli_chr03	38174575	GG	AA	1946782933
SNP_P4_36337_38175133	NC_021162.1	Ca_kabuli_chr03	38175133	AA	GG	1946782935
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SNP_P4_36339_38176160	NC_021162.1	Ca_kabuli_chr03	38176160	CC	TT	1946782939
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SNP_P4_36341_38177281	NC_021162.1	Ca_kabuli_chr03	38177281	GG	CC	1946782943
SNP_P4_36342_38177611	NC_021162.1	Ca_kabuli_chr03	38177611	GG	TT	1946782945
SNP_P4_36343_38177641	NC_021162.1	Ca_kabuli_chr03	38177641	GG	CC	1946782947
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SNP_P4_36345_38180820	NC_021162.1	Ca_kabuli_chr03	38180820	TT	AA	1946782952
SNP_P4_36346_38180985	NC_021162.1	Ca_kabuli_chr03	38180985	AA	CC	1946782954
SNP_P4_36347_38180994	NC_021162.1	Ca_kabuli_chr03	38180994	GG	AA	1946782956
SNP_P4_36348_38181015	NC_021162.1	Ca_kabuli_chr03	38181015	GG	AA	1946782958
SNP_P4_36349_38181200	NC_021162.1	Ca_kabuli_chr03	38181200	GG	TT	1946782960
SNP_P4_36350_38181225	NC_021162.1	Ca_kabuli_chr03	38181225	TT	CC	1946782963
SNP_P4_36351_38181245	NC_021162.1	Ca_kabuli_chr03	38181245	AA	GG	1946782965
SNP_P4_36352_38181462	NC_021162.1	Ca_kabuli_chr03	38181462	AA	TT	1946782968
SNP_P4_36353_38181573	NC_021162.1	Ca_kabuli_chr03	38181573	CC	AA	1946782970
SNP_P4_36354_38181575	NC_021162.1	Ca_kabuli_chr03	38181575	AA	TT	1946782972
SNP_P4_36355_38181594	NC_021162.1	Ca_kabuli_chr03	38181594	TT	CC	1946782974
SNP_P4_36356_38181613	NC_021162.1	Ca_kabuli_chr03	38181613	CC	TT	1946782976
SNP_P4_36357_38181914	NC_021162.1	Ca_kabuli_chr03	38181914	GG	TT	1946782979
SNP_P4_36361_38183258	NC_021162.1	Ca_kabuli_chr03	38183258	CC	AA	1946782981

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_36365_38184450	NC_021162.1	Ca_kabuli_chr03	38184450	AA	TT	1946782987
SNP_P4_36367_38184751	NC_021162.1	Ca_kabuli_chr03	38184751	TT	GG	1946782989
SNP_P4_36368_38184939	NC_021162.1	Ca_kabuli_chr03	38184939	AA	TT	1946782992
SNP_P4_36370_38185103	NC_021162.1	Ca_kabuli_chr03	38185103	TT	CC	1946782994
SNP_P4_36371_38185104	NC_021162.1	Ca_kabuli_chr03	38185104	CC	GG	1946782997
SNP_P4_36372_38185116	NC_021162.1	Ca_kabuli_chr03	38185116	AA	GG	1946782999
SNP_P4_36373_38185132	NC_021162.1	Ca_kabuli_chr03	38185132	AA	TT	1946783001
SNP_P4_36374_38185320	NC_021162.1	Ca_kabuli_chr03	38185320	GG	AA	1946783003
SNP_P4_36377_38187652	NC_021162.1	Ca_kabuli_chr03	38187652	TT	CC	1946783005
SNP_P4_36378_38188223	NC_021162.1	Ca_kabuli_chr03	38188223	TT	AA	1946783007
SNP_P4_36379_38188826	NC_021162.1	Ca_kabuli_chr03	38188826	TT	GG	1946783009
SNP_P4_36380_38197480	NC_021162.1	Ca_kabuli_chr03	38197480	CC	AA	1946783011
SNP_P4_36381_38200441	NC_021162.1	Ca_kabuli_chr03	38200441	AA	CC	1946783014
SNP_P4_36382_38200790	NC_021162.1	Ca_kabuli_chr03	38200790	CC	AA	1946783016
SNP_P4_36383_38201595	NC_021162.1	Ca_kabuli_chr03	38201595	CC	TT	1946783018
SNP_P4_36384_38201629	NC_021162.1	Ca_kabuli_chr03	38201629	CC	GG	1946783020
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SNP_P4_36387_38202081	NC_021162.1	Ca_kabuli_chr03	38202081	CC	GG	1946783026
SNP_P4_36388_38202223	NC_021162.1	Ca_kabuli_chr03	38202223	CC	TT	1946783028
SNP_P4_36389_38202261	NC_021162.1	Ca_kabuli_chr03	38202261	TT	CC	1946783031
SNP_P4_36390_38202789	NC_021162.1	Ca_kabuli_chr03	38202789	TT	GG	1946783034
SNP_P4_36391_38203791	NC_021162.1	Ca_kabuli_chr03	38203791	CC	TT	1946783036
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SNP_P4_36394_38204123	NC_021162.1	Ca_kabuli_chr03	38204123	TT	CC	1946783040
SNP_P4_36396_38204876	NC_021162.1	Ca_kabuli_chr03	38204876	CC	TT	1946783042
SNP_P4_36397_38204878	NC_021162.1	Ca_kabuli_chr03	38204878	GG	CC	1946783045
SNP_P4_36398_38204948	NC_021162.1	Ca_kabuli_chr03	38204948	GG	AA	1946783047
SNP_P4_36399_38204993	NC_021162.1	Ca_kabuli_chr03	38204993	GG	AA	1946783049
SNP_P4_36400_38205098	NC_021162.1	Ca_kabuli_chr03	38205098	TT	CC	1946783051
SNP_P4_36401_38205116	NC_021162.1	Ca_kabuli_chr03	38205116	TT	CC	1946783053
SNP_P4_36402_38205117	NC_021162.1	Ca_kabuli_chr03	38205117	TT	CC	1946783055
SNP_P4_36403_38205154	NC_021162.1	Ca_kabuli_chr03	38205154	CC	TT	1946783057
SNP_P4_36404_38205162	NC_021162.1	Ca_kabuli_chr03	38205162	CC	TT	1946783059
SNP_P4_36405_38205171	NC_021162.1	Ca_kabuli_chr03	38205171	AA	GG	1946783061
SNP_P4_36406_38205216	NC_021162.1	Ca_kabuli_chr03	38205216	AA	TT	1946783063
SNP_P4_36407_38205229	NC_021162.1	Ca_kabuli_chr03	38205229	CC	TT	1946783065
SNP_P4_36408_38205363	NC_021162.1	Ca_kabuli_chr03	38205363	GG	CC	1946783068
SNP_P4_36409_38205377	NC_021162.1	Ca_kabuli_chr03	38205377	TT	AA	1946783070
SNP_P4_36410_38205481	NC_021162.1	Ca_kabuli_chr03	38205481	TT	AA	1946783072

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_36413_38206475	NC_021162.1	Ca_kabuli_chr03	38206475	CC	TT	1946783076
SNP_P4_36414_38209361	NC_021162.1	Ca_kabuli_chr03	38209361	GG	AA	1946783078
SNP_P4_36415_38209362	NC_021162.1	Ca_kabuli_chr03	38209362	TT	GG	1946783080
SNP_P4_36416_38210142	NC_021162.1	Ca_kabuli_chr03	38210142	GG	AA	1946783082
SNP_P4_36418_38213335	NC_021162.1	Ca_kabuli_chr03	38213335	GG	AA	1946783084
SNP_P4_36419_38213359	NC_021162.1	Ca_kabuli_chr03	38213359	GG	AA	1946783087
SNP_P4_36420_38213742	NC_021162.1	Ca_kabuli_chr03	38213742	AA	GG	1946783089
SNP_P4_36421_38215368	NC_021162.1	Ca_kabuli_chr03	38215368	AA	GG	1946783091
SNP_P4_36422_38215632	NC_021162.1	Ca_kabuli_chr03	38215632	CC	GG	1946783093
SNP_P4_36423_38215668	NC_021162.1	Ca_kabuli_chr03	38215668	TT	AA	1946783095
SNP_P4_36424_38215792	NC_021162.1	Ca_kabuli_chr03	38215792	AA	GG	1946783097
SNP_P4_36425_38215854	NC_021162.1	Ca_kabuli_chr03	38215854	AA	CC	1946783099
SNP_P4_36427_38215904	NC_021162.1	Ca_kabuli_chr03	38215904	GG	TT	1946783101
SNP_P4_36428_38216379	NC_021162.1	Ca_kabuli_chr03	38216379	TT	AA	1946783104
SNP_P4_36429_38217850	NC_021162.1	Ca_kabuli_chr03	38217850	TT	CC	1946783106
SNP_P4_36430_38218945	NC_021162.1	Ca_kabuli_chr03	38218945	AA	TT	1946783108
SNP_P4_36431_38218959	NC_021162.1	Ca_kabuli_chr03	38218959	AA	GG	1946783110
SNP_P4_36432_38218962	NC_021162.1	Ca_kabuli_chr03	38218962	GG	TT	1946783113
SNP_P4_36433_38219261	NC_021162.1	Ca_kabuli_chr03	38219261	TT	AA	1946783115
SNP_P4_36434_38219270	NC_021162.1	Ca_kabuli_chr03	38219270	GG	AA	1946783117
SNP_P4_36435_38219943	NC_021162.1	Ca_kabuli_chr03	38219943	AA	GG	1946783120
SNP_P4_36436_38219959	NC_021162.1	Ca_kabuli_chr03	38219959	TT	CC	1946783122
SNP_P4_36437_38219962	NC_021162.1	Ca_kabuli_chr03	38219962	GG	AA	1946783124
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SNP_P4_36439_38219988	NC_021162.1	Ca_kabuli_chr03	38219988	TT	AA	1946783128
SNP_P4_36440_38221405	NC_021162.1	Ca_kabuli_chr03	38221405	CC	AA	1946783130
SNP_P4_36441_38224014	NC_021162.1	Ca_kabuli_chr03	38224014	AA	GG	1946783132
SNP_P4_36442_38224126	NC_021162.1	Ca_kabuli_chr03	38224126	AA	TT	1946783134
SNP_P4_36443_38224558	NC_021162.1	Ca_kabuli_chr03	38224558	TT	AA	1946783136
SNP_P4_36444_38224700	NC_021162.1	Ca_kabuli_chr03	38224700	AA	GG	1946783138
SNP_P4_36445_38226013	NC_021162.1	Ca_kabuli_chr03	38226013	CC	AA	1946783141
SNP_P4_36446_38226019	NC_021162.1	Ca_kabuli_chr03	38226019	CC	AA	1946783143
SNP_P4_36447_38226612	NC_021162.1	Ca_kabuli_chr03	38226612	TT	CC	1946783145
SNP_P4_36448_38226636	NC_021162.1	Ca_kabuli_chr03	38226636	AA	GG	1946783147
SNP_P4_36449_38226637	NC_021162.1	Ca_kabuli_chr03	38226637	AA	GG	1946783149
SNP_P4_36450_38226781	NC_021162.1	Ca_kabuli_chr03	38226781	CC	TT	1946783151
SNP_P4_36451_38226783	NC_021162.1	Ca_kabuli_chr03	38226783	AA	GG	1946783153
SNP_P4_36454_38228328	NC_021162.1	Ca_kabuli_chr03	38228328	TT	AA	1946783155
SNP_P4_36456_38228702	NC_021162.1	Ca_kabuli_chr03	38228702	TT	GG	1946783157
SNP_P4_36458_38230117	NC_021162.1	Ca_kabuli_chr03	38230117	GG	AA	1946783160
SNP_P4_36459_38232382	NC_021162.1	Ca_kabuli_chr03	38232382	GG	AA	1946783162

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_36461_38232402	NC_021162.1	Ca_kabuli_chr03	38232402	GG	CC	1946783166
SNP_P4_36462_38232403	NC_021162.1	Ca_kabuli_chr03	38232403	GG	TT	1946783168
SNP_P4_36463_38233273	NC_021162.1	Ca_kabuli_chr03	38233273	GG	AA	1946783170
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SNP_P4_36466_38233511	NC_021162.1	Ca_kabuli_chr03	38233511	TT	AA	1946783176
SNP_P4_36467_38233672	NC_021162.1	Ca_kabuli_chr03	38233672	CC	TT	1946783178
SNP_P4_36468_38235718	NC_021162.1	Ca_kabuli_chr03	38235718	CC	TT	1946783180
SNP_P4_36469_38236243	NC_021162.1	Ca_kabuli_chr03	38236243	CC	TT	1946783182
SNP_P4_36471_38237861	NC_021162.1	Ca_kabuli_chr03	38237861	TT	CC	1946783184
SNP_P4_36472_38238012	NC_021162.1	Ca_kabuli_chr03	38238012	AA	GG	1946783186
SNP_P4_36473_38238323	NC_021162.1	Ca_kabuli_chr03	38238323	AA	GG	1946783188
SNP_P4_36475_38238577	NC_021162.1	Ca_kabuli_chr03	38238577	AA	CC	1946783190
SNP_P4_36476_38238596	NC_021162.1	Ca_kabuli_chr03	38238596	CC	TT	1946783191
SNP_P4_36477_38238655	NC_021162.1	Ca_kabuli_chr03	38238655	CC	AA	1946783193
SNP_P4_36478_38238866	NC_021162.1	Ca_kabuli_chr03	38238866	AA	GG	1946783195
SNP_P4_36479_38240241	NC_021162.1	Ca_kabuli_chr03	38240241	AA	TT	1946783198
SNP_P4_36480_38240589	NC_021162.1	Ca_kabuli_chr03	38240589	TT	CC	1946783200
SNP_P4_36481_38240761	NC_021162.1	Ca_kabuli_chr03	38240761	AA	GG	1946783202
SNP_P4_36482_38240773	NC_021162.1	Ca_kabuli_chr03	38240773	AA	GG	1946783204
SNP_P4_36484_38240949	NC_021162.1	Ca_kabuli_chr03	38240949	TT	AA	1946783206
SNP_P4_36485_38241078	NC_021162.1	Ca_kabuli_chr03	38241078	TT	GG	1946783208
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SNP_P4_36487_38241194	NC_021162.1	Ca_kabuli_chr03	38241194	GG	AA	1946783212
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SNP_P4_36490_38241234	NC_021162.1	Ca_kabuli_chr03	38241234	TT	CC	1946783218
SNP_P4_36492_38241374	NC_021162.1	Ca_kabuli_chr03	38241374	GG	AA	1946783220
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SNP_P4_36494_38278229	NC_021162.1	Ca_kabuli_chr03	38278229	TT	CC	1946783225
SNP_P4_36495_38284496	NC_021162.1	Ca_kabuli_chr03	38284496	GG	AA	1946783227
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SNP_P4_36499_38353156	NC_021162.1	Ca_kabuli_chr03	38353156	TT	CC	1946783231
SNP_P4_36500_38353157	NC_021162.1	Ca_kabuli_chr03	38353157	TT	GG	1946783233
SNP_P4_36501_38364866	NC_021162.1	Ca_kabuli_chr03	38364866	TT	AA	1946783235
SNP_P4_36502_38393904	NC_021162.1	Ca_kabuli_chr03	38393904	AA	GG	1946783237
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SNP_P4_36506_38425556	NC_021162.1	Ca_kabuli_chr03	38425556	AA	TT	1946783244
SNP_P4_36507_38447643	NC_021162.1	Ca_kabuli_chr03	38447643	TT	CC	1946783246
SNP_P4_36508_38519011	NC_021162.1	Ca_kabuli_chr03	38519011	TT	CC	1946783248

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_36510_38521244	NC_021162.1	Ca_kabuli_chr03	38521244	AA	TT	1946783252
SNP_P4_36512_38596934	NC_021162.1	Ca_kabuli_chr03	38596934	TT	AA	1946783254
SNP_P4_36514_38623626	NC_021162.1	Ca_kabuli_chr03	38623626	CC	TT	1946783256
SNP_P4_36515_38643753	NC_021162.1	Ca_kabuli_chr03	38643753	AA	GG	1946783258
SNP_P4_36518_38690610	NC_021162.1	Ca_kabuli_chr03	38690610	GG	AA	1946783261
SNP_P4_36519_38690638	NC_021162.1	Ca_kabuli_chr03	38690638	GG	AA	1946783263
SNP_P4_36520_38690651	NC_021162.1	Ca_kabuli_chr03	38690651	AA	TT	1946783265
SNP_P4_36521_38690747	NC_021162.1	Ca_kabuli_chr03	38690747	AA	TT	1946783267
SNP_P4_36522_38690862	NC_021162.1	Ca_kabuli_chr03	38690862	CC	AA	1946783269
SNP_P4_36523_38691177	NC_021162.1	Ca_kabuli_chr03	38691177	AA	GG	1946783271
SNP_P4_36525_38698007	NC_021162.1	Ca_kabuli_chr03	38698007	GG	AA	1946783273
SNP_P4_36526_38708828	NC_021162.1	Ca_kabuli_chr03	38708828	GG	AA	1946783275
SNP_P4_36530_38736001	NC_021162.1	Ca_kabuli_chr03	38736001	AA	GG	1946783277
SNP_P4_36531_38736003	NC_021162.1	Ca_kabuli_chr03	38736003	AA	TT	1946783279
SNP_P4_36532_38747169	NC_021162.1	Ca_kabuli_chr03	38747169	CC	TT	1946783282
SNP_P4_36533_38757186	NC_021162.1	Ca_kabuli_chr03	38757186	TT	AA	1946783284
SNP_P4_36534_38757197	NC_021162.1	Ca_kabuli_chr03	38757197	AA	GG	1946783286
SNP_P4_36535_38757199	NC_021162.1	Ca_kabuli_chr03	38757199	TT	CC	1946783288
SNP_P4_36536_38767119	NC_021162.1	Ca_kabuli_chr03	38767119	CC	TT	1946783290
SNP_P4_36537_38788190	NC_021162.1	Ca_kabuli_chr03	38788190	CC	GG	1946783292
SNP_P4_36538_38795424	NC_021162.1	Ca_kabuli_chr03	38795424	TT	GG	1946783294
SNP_P4_36539_38865014	NC_021162.1	Ca_kabuli_chr03	38865014	GG	TT	1946783296
SNP_P4_36540_38865216	NC_021162.1	Ca_kabuli_chr03	38865216	CC	TT	1946783298
SNP_P4_36541_38865228	NC_021162.1	Ca_kabuli_chr03	38865228	AA	CC	1946783300
SNP_P4_36542_38870483	NC_021162.1	Ca_kabuli_chr03	38870483	AA	TT	1946783302
SNP_P4_36543_38870491	NC_021162.1	Ca_kabuli_chr03	38870491	AA	TT	1946783305
SNP_P4_36544_38870525	NC_021162.1	Ca_kabuli_chr03	38870525	AA	CC	1946783307
SNP_P4_36545_38870527	NC_021162.1	Ca_kabuli_chr03	38870527	GG	AA	1946783309
SNP_P4_36547_38900328	NC_021162.1	Ca_kabuli_chr03	38900328	AA	TT	1946783311
SNP_P4_36548_38902606	NC_021162.1	Ca_kabuli_chr03	38902606	AA	GG	1946783313
SNP_P4_36549_38902671	NC_021162.1	Ca_kabuli_chr03	38902671	TT	GG	1946783315
SNP_P4_36550_38902996	NC_021162.1	Ca_kabuli_chr03	38902996	AA	GG	1946783317
SNP_P4_36551_38908601	NC_021162.1	Ca_kabuli_chr03	38908601	CC	TT	1946783319
SNP_P4_36552_38908913	NC_021162.1	Ca_kabuli_chr03	38908913	GG	TT	1946783321
SNP_P4_36553_38942841	NC_021162.1	Ca_kabuli_chr03	38942841	CC	TT	1946783323
SNP_P4_36554_38955916	NC_021162.1	Ca_kabuli_chr03	38955916	TT	GG	1946783325
SNP_P4_36555_38958295	NC_021162.1	Ca_kabuli_chr03	38958295	AA	GG	1946783327
SNP_P4_36556_38960769	NC_021162.1	Ca_kabuli_chr03	38960769	CC	TT	1946783329
SNP_P4_36557_38966377	NC_021162.1	Ca_kabuli_chr03	38966377	TT	GG	1946783331
SNP_P4_36559_38970461	NC_021162.1	Ca_kabuli_chr03	38970461	TT	CC	1946783334
SNP_P4_36560_38976211	NC_021162.1	Ca_kabuli_chr03	38976211	AA	GG	1946783336

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_36563_39020805	NC_021162.1	Ca_kabuli_chr03	39020805	AA	GG	1946783340
SNP_P4_36565_39053394	NC_021162.1	Ca_kabuli_chr03	39053394	AA	GG	1946783342
SNP_P4_36566_39053916	NC_021162.1	Ca_kabuli_chr03	39053916	TT	CC	1946783344
SNP_P4_36567_39054195	NC_021162.1	Ca_kabuli_chr03	39054195	AA	GG	1946783346
SNP_P4_36568_39069396	NC_021162.1	Ca_kabuli_chr03	39069396	AA	TT	1946783348
SNP_P4_36569_39069397	NC_021162.1	Ca_kabuli_chr03	39069397	TT	CC	1946783350
SNP_P4_36570_39108022	NC_021162.1	Ca_kabuli_chr03	39108022	AA	GG	1946783352
SNP_P4_36571_39156034	NC_021162.1	Ca_kabuli_chr03	39156034	GG	AA	1946783354
SNP_P4_36572_39156091	NC_021162.1	Ca_kabuli_chr03	39156091	CC	GG	1946783356
SNP_P4_36573_39156216	NC_021162.1	Ca_kabuli_chr03	39156216	GG	CC	1946783358
SNP_P4_36574_39170623	NC_021162.1	Ca_kabuli_chr03	39170623	AA	CC	1946783360
SNP_P4_36575_39170624	NC_021162.1	Ca_kabuli_chr03	39170624	TT	AA	1946783362
SNP_P4_36576_39170627	NC_021162.1	Ca_kabuli_chr03	39170627	AA	GG	1946783364
SNP_P4_36577_39190615	NC_021162.1	Ca_kabuli_chr03	39190615	AA	GG	1946783366
SNP_P4_36578_39199931	NC_021162.1	Ca_kabuli_chr03	39199931	TT	CC	1946783368
SNP_P4_36579_39227587	NC_021162.1	Ca_kabuli_chr03	39227587	TT	CC	1946783370
SNP_P4_36581_39271343	NC_021162.1	Ca_kabuli_chr03	39271343	GG	AA	1946783372
SNP_P4_36582_39275431	NC_021162.1	Ca_kabuli_chr03	39275431	GG	AA	1946783375
SNP_P4_36583_39326079	NC_021162.1	Ca_kabuli_chr03	39326079	TT	AA	1946783377
SNP_P4_36584_39347797	NC_021162.1	Ca_kabuli_chr03	39347797	GG	TT	1946783379
SNP_P4_36586_39366896	NC_021162.1	Ca_kabuli_chr03	39366896	AA	CC	1946783381
SNP_P4_36587_39366897	NC_021162.1	Ca_kabuli_chr03	39366897	AA	GG	1946783384
SNP_P4_36588_39388844	NC_021162.1	Ca_kabuli_chr03	39388844	CC	TT	1946783386
SNP_P4_36591_39418741	NC_021162.1	Ca_kabuli_chr03	39418741	TT	CC	1946783388
SNP_P4_36592_39418756	NC_021162.1	Ca_kabuli_chr03	39418756	GG	AA	1946783390
SNP_P4_36593_39418759	NC_021162.1	Ca_kabuli_chr03	39418759	CC	GG	1946783392
SNP_P4_36596_39419727	NC_021162.1	Ca_kabuli_chr03	39419727	CC	TT	1946783394
SNP_P4_36598_39422433	NC_021162.1	Ca_kabuli_chr03	39422433	GG	AA	1946783396
SNP_P4_36599_39475462	NC_021162.1	Ca_kabuli_chr03	39475462	TT	GG	1946783398
SNP_P4_36600_39516958	NC_021162.1	Ca_kabuli_chr03	39516958	CC	AA	1946783400
SNP_P4_36603_39564217	NC_021162.1	Ca_kabuli_chr03	39564217	CC	GG	1946783402
SNP_P4_36604_39578578	NC_021162.1	Ca_kabuli_chr03	39578578	GG	AA	1946783404
SNP_P4_36605_39581648	NC_021162.1	Ca_kabuli_chr03	39581648	TT	AA	1946783406
SNP_P4_36606_39603602	NC_021162.1	Ca_kabuli_chr03	39603602	TT	AA	1946783408
SNP_P4_36607_39611027	NC_021162.1	Ca_kabuli_chr03	39611027	TT	CC	1946783410
SNP_P4_36608_39611094	NC_021162.1	Ca_kabuli_chr03	39611094	AA	CC	1946783412
SNP_P4_36609_39611159	NC_021162.1	Ca_kabuli_chr03	39611159	GG	AA	1946783414
SNP_P4_36610_39611170	NC_021162.1	Ca_kabuli_chr03	39611170	TT	AA	1946783416
SNP_P4_36611_39611320	NC_021162.1	Ca_kabuli_chr03	39611320	AA	GG	1946783418
SNP_P4_36612_39611386	NC_021162.1	Ca_kabuli_chr03	39611386	TT	GG	1946783420
SNP_P4_36613_39611410	NC_021162.1	Ca_kabuli_chr03	39611410	TT	CC	1946783422

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_36615_39611446	NC_021162.1	Ca_kabuli_chr03	39611446	AA	TT	1946783426
SNP_P4_36616_39611461	NC_021162.1	Ca_kabuli_chr03	39611461	GG	AA	1946783429
SNP_P4_36617_39611468	NC_021162.1	Ca_kabuli_chr03	39611468	CC	TT	1946783431
SNP_P4_36618_39611490	NC_021162.1	Ca_kabuli_chr03	39611490	CC	TT	1946783433
SNP_P4_36619_39611509	NC_021162.1	Ca_kabuli_chr03	39611509	GG	CC	1946783435
SNP_P4_36620_39611687	NC_021162.1	Ca_kabuli_chr03	39611687	GG	AA	1946783437
SNP_P4_36621_39611688	NC_021162.1	Ca_kabuli_chr03	39611688	CC	TT	1946783439
SNP_P4_36622_39611699	NC_021162.1	Ca_kabuli_chr03	39611699	TT	CC	1946783441
SNP_P4_36623_39611718	NC_021162.1	Ca_kabuli_chr03	39611718	GG	AA	1946783443
SNP_P4_36624_39612237	NC_021162.1	Ca_kabuli_chr03	39612237	GG	TT	1946783445
SNP_P4_36625_39612277	NC_021162.1	Ca_kabuli_chr03	39612277	GG	AA	1946783447
SNP_P4_36626_39612279	NC_021162.1	Ca_kabuli_chr03	39612279	CC	TT	1946783449
SNP_P4_36627_39612430	NC_021162.1	Ca_kabuli_chr03	39612430	AA	TT	1946783451
SNP_P4_36628_39612447	NC_021162.1	Ca_kabuli_chr03	39612447	AA	CC	1946783453
SNP_P4_36629_39612458	NC_021162.1	Ca_kabuli_chr03	39612458	AA	CC	1946783455
SNP_P4_36630_39612534	NC_021162.1	Ca_kabuli_chr03	39612534	TT	CC	1946783457
SNP_P4_36631_39612558	NC_021162.1	Ca_kabuli_chr03	39612558	AA	TT	1946783459
SNP_P4_36632_39612568	NC_021162.1	Ca_kabuli_chr03	39612568	AA	TT	1946783460
SNP_P4_36633_39612573	NC_021162.1	Ca_kabuli_chr03	39612573	AA	TT	1946783462
SNP_P4_36634_39612600	NC_021162.1	Ca_kabuli_chr03	39612600	GG	AA	1946783464
SNP_P4_36635_39620065	NC_021162.1	Ca_kabuli_chr03	39620065	CC	TT	1946783466
SNP_P4_36636_39627567	NC_021162.1	Ca_kabuli_chr03	39627567	TT	GG	1946783468
SNP_P4_36637_39627570	NC_021162.1	Ca_kabuli_chr03	39627570	TT	GG	1946783470
SNP_P4_36638_39627906	NC_021162.1	Ca_kabuli_chr03	39627906	AA	CC	1946783472
SNP_P4_36639_39663690	NC_021162.1	Ca_kabuli_chr03	39663690	GG	AA	1946783474
SNP_P4_36641_39692643	NC_021162.1	Ca_kabuli_chr03	39692643	GG	AA	1946783476
SNP_P4_36642_39697488	NC_021162.1	Ca_kabuli_chr03	39697488	CC	TT	1946783478
SNP_P4_36644_39713805	NC_021162.1	Ca_kabuli_chr03	39713805	GG	AA	1946783480
SNP_P4_36645_39756838	NC_021162.1	Ca_kabuli_chr03	39756838	CC	TT	1946783482
SNP_P4_36647_39765722	NC_021162.1	Ca_kabuli_chr03	39765722	TT	CC	1946783483
SNP_P4_36648_39772879	NC_021162.1	Ca_kabuli_chr03	39772879	GG	AA	1946783485
SNP_P4_36650_39846523	NC_021162.1	Ca_kabuli_chr03	39846523	CC	TT	1946783487
SNP_P4_36652_39864815	NC_021162.1	Ca_kabuli_chr03	39864815	GG	CC	1946783489
SNP_P4_36653_39865286	NC_021162.1	Ca_kabuli_chr03	39865286	AA	TT	1946783491
SNP_P4_36654_39865460	NC_021162.1	Ca_kabuli_chr03	39865460	AA	CC	1946783493
SNP_P4_36655_39865465	NC_021162.1	Ca_kabuli_chr03	39865465	AA	TT	1946783495
SNP_P4_36657_39866503	NC_021162.1	Ca_kabuli_chr03	39866503	GG	AA	1946783497
SNP_P4_36658_39874866	NC_021162.1	Ca_kabuli_chr03	39874866	AA	CC	1946783499
SNP_P4_36659_39887901	NC_021162.1	Ca_kabuli_chr03	39887901	TT	AA	1946783501
SNP_P4_36660_39887905	NC_021162.1	Ca_kabuli_chr03	39887905	TT	AA	1946783503
SNP_P4_36662_39907622	NC_021162.1	Ca_kabuli_chr03	39907622	AA	TT	1946783505

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_36664_39933820	NC_021162.1	Ca_kabuli_chr03	39933820	TT	CC	1946783509
SNP_P4_36665_39933845	NC_021162.1	Ca_kabuli_chr03	39933845	AA	GG	1946783511
SNP_P4_36666_39933897	NC_021162.1	Ca_kabuli_chr03	39933897	CC	TT	1946783513
SNP_P4_36667_39933905	NC_021162.1	Ca_kabuli_chr03	39933905	CC	TT	1946783515
SNP_P4_36668_39934096	NC_021162.1	Ca_kabuli_chr03	39934096	CC	TT	1946783517
SNP_P4_36669_39934158	NC_021162.1	Ca_kabuli_chr03	39934158	TT	CC	1946783519
SNP_P4_36670_39934891	NC_021162.1	Ca_kabuli_chr03	39934891	GG	AA	1946783521
SNP_P4_36671_39938101	NC_021162.1	Ca_kabuli_chr03	39938101	AA	GG	1946783523
SNP_P4_36672_39956407	NC_021162.1	Ca_kabuli_chr03	39956407	TT	CC	1946783525
SNP_P4_36673_39956440	NC_021162.1	Ca_kabuli_chr03	39956440	CC	TT	1946783528
SNP_P4_36675_39964840	NC_021162.1	Ca_kabuli_chr03	39964840	TT	GG	1946783530
SNP_P4_36676_39977800	NC_021162.1	Ca_kabuli_chr03	39977800	AA	GG	1946783532
SNP_P4_36677_39978056	NC_021162.1	Ca_kabuli_chr03	39978056	TT	CC	1946783534
SNP_P4_36678_39978229	NC_021162.1	Ca_kabuli_chr03	39978229	CC	AA	1946783536
SNP_P4_36679_39978389	NC_021162.1	Ca_kabuli_chr03	39978389	AA	GG	1946783538
SNP_P4_36680_39978427	NC_021162.1	Ca_kabuli_chr03	39978427	AA	GG	1946783540
SNP_P4_36681_39978474	NC_021162.1	Ca_kabuli_chr03	39978474	AA	TT	1946783542
SNP_P4_36682_39978481	NC_021162.1	Ca_kabuli_chr03	39978481	TT	GG	1946783544
SNP_P4_36683_39978492	NC_021162.1	Ca_kabuli_chr03	39978492	TT	CC	1946783546
SNP_P4_36684_39979079	NC_021162.1	Ca_kabuli_chr03	39979079	TT	GG	1946783548
SNP_P4_36685_39979104	NC_021162.1	Ca_kabuli_chr03	39979104	TT	CC	1946783550
SNP_P4_36686_39979173	NC_021162.1	Ca_kabuli_chr03	39979173	GG	CC	1946783552
SNP_P4_36687_39979268	NC_021162.1	Ca_kabuli_chr03	39979268	AA	CC	1946783554
SNP_P4_36688_39981442	NC_021162.1	Ca_kabuli_chr03	39981442	AA	TT	1946783556
SNP_P4_36689_39981443	NC_021162.1	Ca_kabuli_chr03	39981443	TT	GG	1946783558
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SNP_P4_36691_39981648	NC_021162.1	Ca_kabuli_chr03	39981648	GG	CC	1946783561
SNP_P4_36692_39981974	NC_021162.1	Ca_kabuli_chr03	39981974	AA	GG	1946783563
SNP_P4_36693_39982030	NC_021162.1	Ca_kabuli_chr03	39982030	TT	CC	1946783565
SNP_P4_36694_39984583	NC_021162.1	Ca_kabuli_chr03	39984583	TT	CC	1946783567
SNP_P4_36695_39984608	NC_021162.1	Ca_kabuli_chr03	39984608	AA	CC	1946783569
SNP_P4_36696_39988165	NC_021162.1	Ca_kabuli_chr03	39988165	GG	CC	1946783571
SNP_P4_36697_39988204	NC_021162.1	Ca_kabuli_chr03	39988204	AA	CC	1946783573
SNP_P4_36698_39988217	NC_021162.1	Ca_kabuli_chr03	39988217	CC	AA	1946783575
SNP_P4_36700_39988500	NC_021162.1	Ca_kabuli_chr03	39988500	GG	CC	1946783577
SNP_P4_36701_13991	NC_021163.1	Ca_kabuli_chr04	13991	TT	CC	1946783579
SNP_P4_36702_24040	NC_021163.1	Ca_kabuli_chr04	24040	TT	AA	1946783581
SNP_P4_36703_28963	NC_021163.1	Ca_kabuli_chr04	28963	AA	GG	1946783583
SNP_P4_36704_30623	NC_021163.1	Ca_kabuli_chr04	30623	GG	AA	1946783585
SNP_P4_36705_43120	NC_021163.1	Ca_kabuli_chr04	43120	AA	TT	1946783587
SNP_P4_36706_45909	NC_021163.1	Ca_kabuli_chr04	45909	CC	GG	1946783589

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_36709_80152	NC_021163.1	Ca_kabuli_chr04	80152	CC	AA	1946783592
SNP_P4_36710_80169	NC_021163.1	Ca_kabuli_chr04	80169	TT	CC	1946783594
SNP_P4_36711_80212	NC_021163.1	Ca_kabuli_chr04	80212	CC	TT	1946783596
SNP_P4_36712_80250	NC_021163.1	Ca_kabuli_chr04	80250	AA	GG	1946783598
SNP_P4_36713_80289	NC_021163.1	Ca_kabuli_chr04	80289	AA	GG	1946783600
SNP_P4_36714_80321	NC_021163.1	Ca_kabuli_chr04	80321	AA	CC	1946783602
SNP_P4_36715_85513	NC_021163.1	Ca_kabuli_chr04	85513	TT	CC	1946783604
SNP_P4_36716_85525	NC_021163.1	Ca_kabuli_chr04	85525	TT	AA	1946783606
SNP_P4_36717_85556	NC_021163.1	Ca_kabuli_chr04	85556	TT	GG	1946783608
SNP_P4_36718_85592	NC_021163.1	Ca_kabuli_chr04	85592	GG	CC	1946783610
SNP_P4_36719_85612	NC_021163.1	Ca_kabuli_chr04	85612	AA	TT	1946783612
SNP_P4_36720_85714	NC_021163.1	Ca_kabuli_chr04	85714	TT	CC	1946783614
SNP_P4_36721_85721	NC_021163.1	Ca_kabuli_chr04	85721	CC	TT	1946783616
SNP_P4_36722_85945	NC_021163.1	Ca_kabuli_chr04	85945	TT	CC	1946783618
SNP_P4_36723_86019	NC_021163.1	Ca_kabuli_chr04	86019	TT	GG	1946783620
SNP_P4_36724_89808	NC_021163.1	Ca_kabuli_chr04	89808	GG	AA	1946783622
SNP_P4_36725_89837	NC_021163.1	Ca_kabuli_chr04	89837	TT	AA	1946783624
SNP_P4_36726_89884	NC_021163.1	Ca_kabuli_chr04	89884	AA	GG	1946783626
SNP_P4_36727_90131	NC_021163.1	Ca_kabuli_chr04	90131	GG	CC	1946783628
SNP_P4_36728_90171	NC_021163.1	Ca_kabuli_chr04	90171	GG	TT	1946783630
SNP_P4_36729_109883	NC_021163.1	Ca_kabuli_chr04	109883	AA	GG	1946783632
SNP_P4_36730_113325	NC_021163.1	Ca_kabuli_chr04	113325	GG	AA	1946783634
SNP_P4_36731_130223	NC_021163.1	Ca_kabuli_chr04	130223	TT	AA	1946783636
SNP_P4_36732_130718	NC_021163.1	Ca_kabuli_chr04	130718	TT	GG	1946783638
SNP_P4_36733_130733	NC_021163.1	Ca_kabuli_chr04	130733	CC	TT	1946783640
SNP_P4_36734_130789	NC_021163.1	Ca_kabuli_chr04	130789	TT	CC	1946783642
SNP_P4_36735_130827	NC_021163.1	Ca_kabuli_chr04	130827	AA	GG	1946783644
SNP_P4_36736_130850	NC_021163.1	Ca_kabuli_chr04	130850	TT	CC	1946783646
SNP_P4_36737_130860	NC_021163.1	Ca_kabuli_chr04	130860	AA	GG	1946783648
SNP_P4_36738_130974	NC_021163.1	Ca_kabuli_chr04	130974	AA	GG	1946783650
SNP_P4_36739_130983	NC_021163.1	Ca_kabuli_chr04	130983	AA	GG	1946783652
SNP_P4_36740_131016	NC_021163.1	Ca_kabuli_chr04	131016	AA	GG	1946783654
SNP_P4_36741_131032	NC_021163.1	Ca_kabuli_chr04	131032	CC	TT	1946783656
SNP_P4_36742_131064	NC_021163.1	Ca_kabuli_chr04	131064	CC	AA	1946783658
SNP_P4_36743_131091	NC_021163.1	Ca_kabuli_chr04	131091	GG	AA	1946783660
SNP_P4_36744_131166	NC_021163.1	Ca_kabuli_chr04	131166	AA	GG	1946783662
SNP_P4_36745_131211	NC_021163.1	Ca_kabuli_chr04	131211	TT	AA	1946783664
SNP_P4_36746_175585	NC_021163.1	Ca_kabuli_chr04	175585	GG	CC	1946783666
SNP_P4_36747_199765	NC_021163.1	Ca_kabuli_chr04	199765	TT	CC	1946783668
SNP_P4_36748_209064	NC_021163.1	Ca_kabuli_chr04	209064	GG	AA	1946783670
SNP_P4_36749_209449	NC_021163.1	Ca_kabuli_chr04	209449	TT	CC	1946783672

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_36752_335605	NC_021163.1	Ca_kabuli_chr04	335605	AA	CC	1946783676
SNP_P4_36753_339281	NC_021163.1	Ca_kabuli_chr04	339281	AA	GG	1946783678
SNP_P4_36754_340122	NC_021163.1	Ca_kabuli_chr04	340122	TT	AA	1946783680
SNP_P4_36755_340477	NC_021163.1	Ca_kabuli_chr04	340477	AA	GG	1946783682
SNP_P4_36757_350732	NC_021163.1	Ca_kabuli_chr04	350732	TT	AA	1946783684
SNP_P4_36758_357290	NC_021163.1	Ca_kabuli_chr04	357290	GG	TT	1946783686
SNP_P4_36759_357397	NC_021163.1	Ca_kabuli_chr04	357397	TT	AA	1946783688
SNP_P4_36760_357436	NC_021163.1	Ca_kabuli_chr04	357436	TT	AA	1946783690
SNP_P4_36761_357498	NC_021163.1	Ca_kabuli_chr04	357498	CC	AA	1946783692
SNP_P4_36762_357529	NC_021163.1	Ca_kabuli_chr04	357529	CC	TT	1946783694
SNP_P4_36763_357562	NC_021163.1	Ca_kabuli_chr04	357562	TT	CC	1946783696
SNP_P4_36764_357582	NC_021163.1	Ca_kabuli_chr04	357582	TT	GG	1946783698
SNP_P4_36765_357637	NC_021163.1	Ca_kabuli_chr04	357637	AA	CC	1946783700
SNP_P4_36766_357650	NC_021163.1	Ca_kabuli_chr04	357650	GG	AA	1946783702
SNP_P4_36767_357724	NC_021163.1	Ca_kabuli_chr04	357724	AA	CC	1946783704
SNP_P4_36768_357761	NC_021163.1	Ca_kabuli_chr04	357761	TT	CC	1946783706
SNP_P4_36769_357853	NC_021163.1	Ca_kabuli_chr04	357853	AA	GG	1946783708
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SNP_P4_36771_368133	NC_021163.1	Ca_kabuli_chr04	368133	AA	GG	1946783712
SNP_P4_36772_368135	NC_021163.1	Ca_kabuli_chr04	368135	CC	TT	1946783714
SNP_P4_36773_368139	NC_021163.1	Ca_kabuli_chr04	368139	AA	TT	1946783716
SNP_P4_36775_391813	NC_021163.1	Ca_kabuli_chr04	391813	AA	TT	1946783718
SNP_P4_36776_391814	NC_021163.1	Ca_kabuli_chr04	391814	AA	CC	1946783720
SNP_P4_36777_418082	NC_021163.1	Ca_kabuli_chr04	418082	CC	TT	1946783722
SNP_P4_36778_419204	NC_021163.1	Ca_kabuli_chr04	419204	GG	AA	1946783724
SNP_P4_36779_428569	NC_021163.1	Ca_kabuli_chr04	428569	TT	CC	1946783726
SNP_P4_36780_434225	NC_021163.1	Ca_kabuli_chr04	434225	GG	TT	1946783728
SNP_P4_36781_468204	NC_021163.1	Ca_kabuli_chr04	468204	TT	CC	1946783730
SNP_P4_36782_471800	NC_021163.1	Ca_kabuli_chr04	471800	CC	TT	1946783733
SNP_P4_36783_478439	NC_021163.1	Ca_kabuli_chr04	478439	TT	CC	1946783735
SNP_P4_36785_531356	NC_021163.1	Ca_kabuli_chr04	531356	GG	AA	1946783737
SNP_P4_36786_537136	NC_021163.1	Ca_kabuli_chr04	537136	AA	TT	1946783739
SNP_P4_36787_538472	NC_021163.1	Ca_kabuli_chr04	538472	AA	TT	1946783741
SNP_P4_36789_568239	NC_021163.1	Ca_kabuli_chr04	568239	GG	CC	1946783743
SNP_P4_36790_579034	NC_021163.1	Ca_kabuli_chr04	579034	AA	CC	1946783745
SNP_P4_36792_584089	NC_021163.1	Ca_kabuli_chr04	584089	CC	TT	1946783747
SNP_P4_36793_584090	NC_021163.1	Ca_kabuli_chr04	584090	CC	AA	1946783749
SNP_P4_36794_584099	NC_021163.1	Ca_kabuli_chr04	584099	GG	AA	1946783751
SNP_P4_36795_602189	NC_021163.1	Ca_kabuli_chr04	602189	AA	CC	1946783753
SNP_P4_36796_602191	NC_021163.1	Ca_kabuli_chr04	602191	AA	GG	1946783756
SNP_P4_36800_674431	NC_021163.1	Ca_kabuli_chr04	674431	GG	AA	1946783758

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_36804_776331	NC_021163.1	Ca_kabuli_chr04	776331	CC	TT	1946783762
SNP_P4_36805_780349	NC_021163.1	Ca_kabuli_chr04	780349	TT	CC	1946783764
SNP_P4_36806_787436	NC_021163.1	Ca_kabuli_chr04	787436	GG	AA	1946783766
SNP_P4_36807_814283	NC_021163.1	Ca_kabuli_chr04	814283	AA	CC	1946783768
SNP_P4_36808_814284	NC_021163.1	Ca_kabuli_chr04	814284	AA	CC	1946783770
SNP_P4_36810_868069	NC_021163.1	Ca_kabuli_chr04	868069	GG	CC	1946783772
SNP_P4_36812_940534	NC_021163.1	Ca_kabuli_chr04	940534	AA	CC	1946783774
SNP_P4_36813_945822	NC_021163.1	Ca_kabuli_chr04	945822	TT	AA	1946783776
SNP_P4_36814_945824	NC_021163.1	Ca_kabuli_chr04	945824	TT	AA	1946783778
SNP_P4_36815_949907	NC_021163.1	Ca_kabuli_chr04	949907	CC	TT	1946783780
SNP_P4_36816_982276	NC_021163.1	Ca_kabuli_chr04	982276	AA	GG	1946783783
SNP_P4_36817_988320	NC_021163.1	Ca_kabuli_chr04	988320	AA	CC	1946783784
SNP_P4_36818_988324	NC_021163.1	Ca_kabuli_chr04	988324	GG	AA	1946783785
SNP_P4_36819_988337	NC_021163.1	Ca_kabuli_chr04	988337	AA	GG	1946783786
SNP_P4_36820_1042813	NC_021163.1	Ca_kabuli_chr04	1042813	AA	GG	1946783787
SNP_P4_36821_1043221	NC_021163.1	Ca_kabuli_chr04	1043221	TT	CC	1946783788
SNP_P4_36822_1059819	NC_021163.1	Ca_kabuli_chr04	1059819	AA	GG	1946783789
SNP_P4_36824_1172883	NC_021163.1	Ca_kabuli_chr04	1172883	TT	GG	1946783790
SNP_P4_36825_1178111	NC_021163.1	Ca_kabuli_chr04	1178111	CC	TT	1946783792
SNP_P4_36826_1218912	NC_021163.1	Ca_kabuli_chr04	1218912	TT	AA	1946783794
SNP_P4_36827_1231070	NC_021163.1	Ca_kabuli_chr04	1231070	CC	TT	1946783796
SNP_P4_36830_1252062	NC_021163.1	Ca_kabuli_chr04	1252062	GG	AA	1946783798
SNP_P4_36831_1272199	NC_021163.1	Ca_kabuli_chr04	1272199	CC	TT	1946783800
SNP_P4_36832_1281262	NC_021163.1	Ca_kabuli_chr04	1281262	TT	CC	1946783802
SNP_P4_36834_1332059	NC_021163.1	Ca_kabuli_chr04	1332059	TT	CC	1946783804
SNP_P4_36835_1334863	NC_021163.1	Ca_kabuli_chr04	1334863	CC	TT	1946783806
SNP_P4_36836_1366141	NC_021163.1	Ca_kabuli_chr04	1366141	AA	GG	1946783808
SNP_P4_36839_1408998	NC_021163.1	Ca_kabuli_chr04	1408998	CC	TT	1946783810
SNP_P4_36840_1409007	NC_021163.1	Ca_kabuli_chr04	1409007	TT	GG	1946783812
SNP_P4_36841_1409008	NC_021163.1	Ca_kabuli_chr04	1409008	TT	CC	1946783814
SNP_P4_36842_1416664	NC_021163.1	Ca_kabuli_chr04	1416664	GG	AA	1946783816
SNP_P4_36843_1423914	NC_021163.1	Ca_kabuli_chr04	1423914	AA	TT	1946783818
SNP_P4_36845_1466459	NC_021163.1	Ca_kabuli_chr04	1466459	GG	AA	1946783820
SNP_P4_36846_1484913	NC_021163.1	Ca_kabuli_chr04	1484913	AA	GG	1946783822
SNP_P4_36847_1488729	NC_021163.1	Ca_kabuli_chr04	1488729	TT	GG	1946783824
SNP_P4_36848_1499677	NC_021163.1	Ca_kabuli_chr04	1499677	GG	TT	1946783826
SNP_P4_36849_1520989	NC_021163.1	Ca_kabuli_chr04	1520989	AA	CC	1946783828
SNP_P4_36850_1521075	NC_021163.1	Ca_kabuli_chr04	1521075	AA	GG	1946783830
SNP_P4_36851_1536655	NC_021163.1	Ca_kabuli_chr04	1536655	TT	CC	1946783832
SNP_P4_36852_1536859	NC_021163.1	Ca_kabuli_chr04	1536859	TT	CC	1946783834
SNP_P4_36854_1553749	NC_021163.1	Ca_kabuli_chr04	1553749	GG	TT	1946783836

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_36856_1590864	NC_021163.1	Ca_kabuli_chr04	1590864	AA	CC	1946783840
SNP_P4_36857_1591619	NC_021163.1	Ca_kabuli_chr04	1591619	GG	AA	1946783842
SNP_P4_36859_1592076	NC_021163.1	Ca_kabuli_chr04	1592076	TT	GG	1946783845
SNP_P4_36860_1592080	NC_021163.1	Ca_kabuli_chr04	1592080	TT	AA	1946783847
SNP_P4_36861_1596982	NC_021163.1	Ca_kabuli_chr04	1596982	GG	AA	1946783849
SNP_P4_36862_1597120	NC_021163.1	Ca_kabuli_chr04	1597120	TT	CC	1946783851
SNP_P4_36863_1623978	NC_021163.1	Ca_kabuli_chr04	1623978	AA	CC	1946783853
SNP_P4_36865_1646739	NC_021163.1	Ca_kabuli_chr04	1646739	CC	TT	1946783855
SNP_P4_36866_1675801	NC_021163.1	Ca_kabuli_chr04	1675801	GG	TT	1946783857
SNP_P4_36867_1677022	NC_021163.1	Ca_kabuli_chr04	1677022	GG	AA	1946783859
SNP_P4_36868_1677042	NC_021163.1	Ca_kabuli_chr04	1677042	AA	CC	1946783861
SNP_P4_36869_1677101	NC_021163.1	Ca_kabuli_chr04	1677101	TT	AA	1946783863
SNP_P4_36870_1677197	NC_021163.1	Ca_kabuli_chr04	1677197	GG	AA	1946783865
SNP_P4_36871_1677209	NC_021163.1	Ca_kabuli_chr04	1677209	TT	AA	1946783867
SNP_P4_36872_1677215	NC_021163.1	Ca_kabuli_chr04	1677215	GG	CC	1946783869
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SNP_P4_36874_1677233	NC_021163.1	Ca_kabuli_chr04	1677233	TT	CC	1946783873
SNP_P4_36875_1677241	NC_021163.1	Ca_kabuli_chr04	1677241	TT	CC	1946783875
SNP_P4_36876_1677242	NC_021163.1	Ca_kabuli_chr04	1677242	GG	AA	1946783877
SNP_P4_36878_1677466	NC_021163.1	Ca_kabuli_chr04	1677466	CC	TT	1946783879
SNP_P4_36879_1678817	NC_021163.1	Ca_kabuli_chr04	1678817	TT	AA	1946783881
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SNP_P4_36881_1702012	NC_021163.1	Ca_kabuli_chr04	1702012	TT	GG	1946783885
SNP_P4_36882_1702013	NC_021163.1	Ca_kabuli_chr04	1702013	TT	GG	1946783887
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SNP_P4_36884_1763076	NC_021163.1	Ca_kabuli_chr04	1763076	TT	AA	1946783891
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SNP_P4_36887_1763361	NC_021163.1	Ca_kabuli_chr04	1763361	CC	TT	1946783895
SNP_P4_36888_1763606	NC_021163.1	Ca_kabuli_chr04	1763606	AA	GG	1946783898
SNP_P4_36890_1767024	NC_021163.1	Ca_kabuli_chr04	1767024	TT	AA	1946783900
SNP_P4_36891_1767606	NC_021163.1	Ca_kabuli_chr04	1767606	GG	AA	1946783902
SNP_P4_36892_1772493	NC_021163.1	Ca_kabuli_chr04	1772493	AA	CC	1946783904
SNP_P4_36893_1772526	NC_021163.1	Ca_kabuli_chr04	1772526	TT	CC	1946783906
SNP_P4_36894_1772529	NC_021163.1	Ca_kabuli_chr04	1772529	GG	CC	1946783908
SNP_P4_36895_1773528	NC_021163.1	Ca_kabuli_chr04	1773528	GG	TT	1946783910
SNP_P4_36896_1773542	NC_021163.1	Ca_kabuli_chr04	1773542	TT	CC	1946783912
SNP_P4_36897_1773558	NC_021163.1	Ca_kabuli_chr04	1773558	CC	TT	1946783914
SNP_P4_36899_1774545	NC_021163.1	Ca_kabuli_chr04	1774545	AA	GG	1946783916
SNP_P4_36900_1774630	NC_021163.1	Ca_kabuli_chr04	1774630	TT	CC	1946783918
SNP_P4_36901_1774848	NC_021163.1	Ca_kabuli_chr04	1774848	CC	TT	1946783921
SNP_P4_36902_1774856	NC_021163.1	Ca_kabuli_chr04	1774856	CC	AA	1946783923

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_36904_1775892	NC_021163.1	Ca_kabuli_chr04	1775892	GG	AA	1946783927
SNP_P4_36905_1775935	NC_021163.1	Ca_kabuli_chr04	1775935	AA	CC	1946783929
SNP_P4_36906_1775941	NC_021163.1	Ca_kabuli_chr04	1775941	CC	TT	1946783931
SNP_P4_36907_1776419	NC_021163.1	Ca_kabuli_chr04	1776419	GG	AA	1946783933
SNP_P4_36908_1776426	NC_021163.1	Ca_kabuli_chr04	1776426	TT	CC	1946783935
SNP_P4_36909_1776842	NC_021163.1	Ca_kabuli_chr04	1776842	CC	AA	1946783937
SNP_P4_36911_1777989	NC_021163.1	Ca_kabuli_chr04	1777989	TT	CC	1946783940
SNP_P4_36912_1778025	NC_021163.1	Ca_kabuli_chr04	1778025	TT	CC	1946783942
SNP_P4_36913_1779900	NC_021163.1	Ca_kabuli_chr04	1779900	AA	TT	1946783944
SNP_P4_36914_1779901	NC_021163.1	Ca_kabuli_chr04	1779901	CC	AA	1946783946
SNP_P4_36915_1779927	NC_021163.1	Ca_kabuli_chr04	1779927	AA	GG	1946783948
SNP_P4_36916_1779940	NC_021163.1	Ca_kabuli_chr04	1779940	CC	TT	1946783950
SNP_P4_36917_1780177	NC_021163.1	Ca_kabuli_chr04	1780177	AA	GG	1946783952
SNP_P4_36919_1780242	NC_021163.1	Ca_kabuli_chr04	1780242	CC	TT	1946783954
SNP_P4_36920_1780277	NC_021163.1	Ca_kabuli_chr04	1780277	TT	GG	1946783956
SNP_P4_36921_1780292	NC_021163.1	Ca_kabuli_chr04	1780292	CC	TT	1946783958
SNP_P4_36922_1780294	NC_021163.1	Ca_kabuli_chr04	1780294	AA	GG	1946783960
SNP_P4_36923_1781745	NC_021163.1	Ca_kabuli_chr04	1781745	GG	AA	1946783962
SNP_P4_36924_1781806	NC_021163.1	Ca_kabuli_chr04	1781806	CC	AA	1946783964
SNP_P4_36925_1782436	NC_021163.1	Ca_kabuli_chr04	1782436	CC	AA	1946783966
SNP_P4_36926_1782660	NC_021163.1	Ca_kabuli_chr04	1782660	CC	AA	1946783968
SNP_P4_36927_1783150	NC_021163.1	Ca_kabuli_chr04	1783150	GG	AA	1946783970
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SNP_P4_36931_1786417	NC_021163.1	Ca_kabuli_chr04	1786417	CC	GG	1946783976
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SNP_P4_36934_1786751	NC_021163.1	Ca_kabuli_chr04	1786751	GG	AA	1946783982
SNP_P4_36935_1786768	NC_021163.1	Ca_kabuli_chr04	1786768	TT	GG	1946783984
SNP_P4_36936_1787958	NC_021163.1	Ca_kabuli_chr04	1787958	TT	GG	1946783986
SNP_P4_36937_1789265	NC_021163.1	Ca_kabuli_chr04	1789265	GG	AA	1946783988
SNP_P4_36938_1789390	NC_021163.1	Ca_kabuli_chr04	1789390	TT	CC	1946783990
SNP_P4_36939_1789433	NC_021163.1	Ca_kabuli_chr04	1789433	AA	CC	1946783992
SNP_P4_36940_1789434	NC_021163.1	Ca_kabuli_chr04	1789434	CC	AA	1946783994
SNP_P4_36941_1789448	NC_021163.1	Ca_kabuli_chr04	1789448	TT	CC	1946783996
SNP_P4_36942_1789590	NC_021163.1	Ca_kabuli_chr04	1789590	TT	GG	1946783998
SNP_P4_36943_1789648	NC_021163.1	Ca_kabuli_chr04	1789648	TT	GG	1946784000
SNP_P4_36945_1791844	NC_021163.1	Ca_kabuli_chr04	1791844	GG	AA	1946784002
SNP_P4_36946_1791871	NC_021163.1	Ca_kabuli_chr04	1791871	AA	GG	1946784004
SNP_P4_36948_1791990	NC_021163.1	Ca_kabuli_chr04	1791990	AA	GG	1946784006
SNP_P4_36949_1792114	NC_021163.1	Ca_kabuli_chr04	1792114	GG	AA	1946784008

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_36952_1796273	NC_021163.1	Ca_kabuli_chr04	1796273	TT	GG	1946784015
SNP_P4_36953_1800269	NC_021163.1	Ca_kabuli_chr04	1800269	AA	GG	1946784017
SNP_P4_36954_1801631	NC_021163.1	Ca_kabuli_chr04	1801631	TT	CC	1946784019
SNP_P4_36955_1801852	NC_021163.1	Ca_kabuli_chr04	1801852	GG	TT	1946784021
SNP_P4_36957_1802723	NC_021163.1	Ca_kabuli_chr04	1802723	TT	CC	1946784023
SNP_P4_36958_1802737	NC_021163.1	Ca_kabuli_chr04	1802737	GG	AA	1946784025
SNP_P4_36959_1802909	NC_021163.1	Ca_kabuli_chr04	1802909	GG	AA	1946784027
SNP_P4_36960_1806049	NC_021163.1	Ca_kabuli_chr04	1806049	AA	GG	1946784029
SNP_P4_36961_1806726	NC_021163.1	Ca_kabuli_chr04	1806726	AA	GG	1946784031
SNP_P4_36962_1806745	NC_021163.1	Ca_kabuli_chr04	1806745	GG	AA	1946784034
SNP_P4_36963_1807096	NC_021163.1	Ca_kabuli_chr04	1807096	GG	AA	1946784036
SNP_P4_36965_1808820	NC_021163.1	Ca_kabuli_chr04	1808820	TT	CC	1946784038
SNP_P4_36966_1811136	NC_021163.1	Ca_kabuli_chr04	1811136	TT	GG	1946784040
SNP_P4_36967_1811419	NC_021163.1	Ca_kabuli_chr04	1811419	AA	CC	1946784042
SNP_P4_36968_1812119	NC_021163.1	Ca_kabuli_chr04	1812119	AA	GG	1946784044
SNP_P4_36969_1814127	NC_021163.1	Ca_kabuli_chr04	1814127	AA	TT	1946784046
SNP_P4_36970_1818642	NC_021163.1	Ca_kabuli_chr04	1818642	CC	TT	1946784048
SNP_P4_36974_1819951	NC_021163.1	Ca_kabuli_chr04	1819951	TT	CC	1946784050
SNP_P4_36975_1819999	NC_021163.1	Ca_kabuli_chr04	1819999	GG	AA	1946784052
SNP_P4_36977_1820049	NC_021163.1	Ca_kabuli_chr04	1820049	TT	CC	1946784054
SNP_P4_36978_1820173	NC_021163.1	Ca_kabuli_chr04	1820173	TT	CC	1946784056
SNP_P4_36979_1820192	NC_021163.1	Ca_kabuli_chr04	1820192	AA	GG	1946784058
SNP_P4_36980_1820303	NC_021163.1	Ca_kabuli_chr04	1820303	AA	GG	1946784060
SNP_P4_36981_1820387	NC_021163.1	Ca_kabuli_chr04	1820387	TT	AA	1946784062
SNP_P4_36982_1820425	NC_021163.1	Ca_kabuli_chr04	1820425	GG	TT	1946784064
SNP_P4_36983_1820445	NC_021163.1	Ca_kabuli_chr04	1820445	TT	CC	1946784067
SNP_P4_36984_1820479	NC_021163.1	Ca_kabuli_chr04	1820479	GG	CC	1946784069
SNP_P4_36985_1820545	NC_021163.1	Ca_kabuli_chr04	1820545	CC	GG	1946784071
SNP_P4_36986_1820586	NC_021163.1	Ca_kabuli_chr04	1820586	GG	TT	1946784073
SNP_P4_36987_1820601	NC_021163.1	Ca_kabuli_chr04	1820601	CC	AA	1946784075
SNP_P4_36988_1820626	NC_021163.1	Ca_kabuli_chr04	1820626	GG	AA	1946784077
SNP_P4_36989_1820637	NC_021163.1	Ca_kabuli_chr04	1820637	GG	AA	1946784079
SNP_P4_36990_1821856	NC_021163.1	Ca_kabuli_chr04	1821856	GG	TT	1946784081
SNP_P4_36991_1822070	NC_021163.1	Ca_kabuli_chr04	1822070	GG	AA	1946784083
SNP_P4_36992_1822136	NC_021163.1	Ca_kabuli_chr04	1822136	AA	GG	1946784085
SNP_P4_36993_1822158	NC_021163.1	Ca_kabuli_chr04	1822158	TT	CC	1946784087
SNP_P4_36994_1822182	NC_021163.1	Ca_kabuli_chr04	1822182	CC	GG	1946784089
SNP_P4_36995_1822223	NC_021163.1	Ca_kabuli_chr04	1822223	TT	CC	1946784091
SNP_P4_36996_1822453	NC_021163.1	Ca_kabuli_chr04	1822453	GG	CC	1946784094
SNP_P4_36997_1822535	NC_021163.1	Ca_kabuli_chr04	1822535	CC	AA	1946784096

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_36999_1822606	NC_021163.1	Ca_kabuli_chr04	1822606	CC	TT	1946784100
SNP_P4_37000_1823903	NC_021163.1	Ca_kabuli_chr04	1823903	TT	CC	1946784102
SNP_P4_37001_1823954	NC_021163.1	Ca_kabuli_chr04	1823954	AA	CC	1946784104
SNP_P4_37002_1824005	NC_021163.1	Ca_kabuli_chr04	1824005	AA	GG	1946784106
SNP_P4_37003_1824042	NC_021163.1	Ca_kabuli_chr04	1824042	GG	AA	1946784108
SNP_P4_37004_1824240	NC_021163.1	Ca_kabuli_chr04	1824240	AA	TT	1946784110
SNP_P4_37005_1824242	NC_021163.1	Ca_kabuli_chr04	1824242	GG	TT	1946784112
SNP_P4_37006_1824852	NC_021163.1	Ca_kabuli_chr04	1824852	GG	CC	1946784114
SNP_P4_37007_1824925	NC_021163.1	Ca_kabuli_chr04	1824925	CC	TT	1946784117
SNP_P4_37008_1824942	NC_021163.1	Ca_kabuli_chr04	1824942	CC	TT	1946784119
SNP_P4_37009_1825298	NC_021163.1	Ca_kabuli_chr04	1825298	GG	AA	1946784121
SNP_P4_37010_1825340	NC_021163.1	Ca_kabuli_chr04	1825340	AA	TT	1946784123
SNP_P4_37013_1826072	NC_021163.1	Ca_kabuli_chr04	1826072	TT	CC	1946784125
SNP_P4_37014_1826108	NC_021163.1	Ca_kabuli_chr04	1826108	AA	GG	1946784127
SNP_P4_37015_1826663	NC_021163.1	Ca_kabuli_chr04	1826663	CC	AA	1946784129
SNP_P4_37016_1826678	NC_021163.1	Ca_kabuli_chr04	1826678	AA	GG	1946784131
SNP_P4_37017_1826700	NC_021163.1	Ca_kabuli_chr04	1826700	AA	GG	1946784133
SNP_P4_37018_1826727	NC_021163.1	Ca_kabuli_chr04	1826727	CC	TT	1946784135
SNP_P4_37020_1826867	NC_021163.1	Ca_kabuli_chr04	1826867	TT	CC	1946784137
SNP_P4_37023_1827507	NC_021163.1	Ca_kabuli_chr04	1827507	TT	CC	1946784139
SNP_P4_37024_1827546	NC_021163.1	Ca_kabuli_chr04	1827546	TT	CC	1946784141
SNP_P4_37025_1827547	NC_021163.1	Ca_kabuli_chr04	1827547	GG	AA	1946784143
SNP_P4_37026_1827793	NC_021163.1	Ca_kabuli_chr04	1827793	AA	GG	1946784145
SNP_P4_37027_1827917	NC_021163.1	Ca_kabuli_chr04	1827917	GG	CC	1946784147
SNP_P4_37028_1828221	NC_021163.1	Ca_kabuli_chr04	1828221	CC	GG	1946784149
SNP_P4_37029_1828772	NC_021163.1	Ca_kabuli_chr04	1828772	TT	GG	1946784151
SNP_P4_37030_1828807	NC_021163.1	Ca_kabuli_chr04	1828807	AA	GG	1946784153
SNP_P4_37031_1828808	NC_021163.1	Ca_kabuli_chr04	1828808	TT	CC	1946784155
SNP_P4_37032_1828824	NC_021163.1	Ca_kabuli_chr04	1828824	AA	CC	1946784157
SNP_P4_37035_1830128	NC_021163.1	Ca_kabuli_chr04	1830128	AA	TT	1946784159
SNP_P4_37036_1830521	NC_021163.1	Ca_kabuli_chr04	1830521	TT	GG	1946784161
SNP_P4_37037_1830957	NC_021163.1	Ca_kabuli_chr04	1830957	AA	CC	1946784163
SNP_P4_37039_1831525	NC_021163.1	Ca_kabuli_chr04	1831525	TT	CC	1946784165
SNP_P4_37040_1831544	NC_021163.1	Ca_kabuli_chr04	1831544	AA	TT	1946784167
SNP_P4_37041_1832290	NC_021163.1	Ca_kabuli_chr04	1832290	GG	CC	1946784169
SNP_P4_37042_1832298	NC_021163.1	Ca_kabuli_chr04	1832298	GG	CC	1946784171
SNP_P4_37043_1832351	NC_021163.1	Ca_kabuli_chr04	1832351	TT	AA	1946784173
SNP_P4_37044_1834393	NC_021163.1	Ca_kabuli_chr04	1834393	AA	TT	1946784175
SNP_P4_37045_1834568	NC_021163.1	Ca_kabuli_chr04	1834568	CC	TT	1946784178
SNP_P4_37046_1836457	NC_021163.1	Ca_kabuli_chr04	1836457	GG	TT	1946784180
SNP_P4_37047_1836508	NC_021163.1	Ca_kabuli_chr04	1836508	TT	CC	1946784182

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_37049_1836543	NC_021163.1	Ca_kabuli_chr04	1836543	TT	CC	1946784186
SNP_P4_37050_1836887	NC_021163.1	Ca_kabuli_chr04	1836887	TT	CC	1946784188
SNP_P4_37051_1838113	NC_021163.1	Ca_kabuli_chr04	1838113	GG	AA	1946784190
SNP_P4_37052_1839954	NC_021163.1	Ca_kabuli_chr04	1839954	AA	TT	1946784192
SNP_P4_37053_1840353	NC_021163.1	Ca_kabuli_chr04	1840353	AA	GG	1946784195
SNP_P4_37055_1840434	NC_021163.1	Ca_kabuli_chr04	1840434	AA	GG	1946784197
SNP_P4_37057_1844038	NC_021163.1	Ca_kabuli_chr04	1844038	AA	GG	1946784199
SNP_P4_37058_1844719	NC_021163.1	Ca_kabuli_chr04	1844719	AA	GG	1946784201
SNP_P4_37059_1846985	NC_021163.1	Ca_kabuli_chr04	1846985	GG	AA	1946784203
SNP_P4_37060_1847451	NC_021163.1	Ca_kabuli_chr04	1847451	GG	CC	1946784205
SNP_P4_37062_1847749	NC_021163.1	Ca_kabuli_chr04	1847749	TT	GG	1946784207
SNP_P4_37064_1848552	NC_021163.1	Ca_kabuli_chr04	1848552	TT	CC	1946784210
SNP_P4_37065_1848570	NC_021163.1	Ca_kabuli_chr04	1848570	AA	GG	1946784212
SNP_P4_37066_1848594	NC_021163.1	Ca_kabuli_chr04	1848594	CC	TT	1946784214
SNP_P4_37067_1848608	NC_021163.1	Ca_kabuli_chr04	1848608	CC	GG	1946784216
SNP_P4_37068_1848610	NC_021163.1	Ca_kabuli_chr04	1848610	TT	CC	1946784218
SNP_P4_37069_1848797	NC_021163.1	Ca_kabuli_chr04	1848797	GG	AA	1946784220
SNP_P4_37070_1849625	NC_021163.1	Ca_kabuli_chr04	1849625	GG	AA	1946784224
SNP_P4_37071_1849634	NC_021163.1	Ca_kabuli_chr04	1849634	AA	GG	1946784226
SNP_P4_37072_1855610	NC_021163.1	Ca_kabuli_chr04	1855610	TT	CC	1946784228
SNP_P4_37073_1855655	NC_021163.1	Ca_kabuli_chr04	1855655	CC	GG	1946784230
SNP_P4_37074_1858388	NC_021163.1	Ca_kabuli_chr04	1858388	AA	CC	1946784232
SNP_P4_37076_1858702	NC_021163.1	Ca_kabuli_chr04	1858702	AA	CC	1946784234
SNP_P4_37077_1859723	NC_021163.1	Ca_kabuli_chr04	1859723	AA	GG	1946784236
SNP_P4_37078_1859734	NC_021163.1	Ca_kabuli_chr04	1859734	CC	AA	1946784238
SNP_P4_37079_1860785	NC_021163.1	Ca_kabuli_chr04	1860785	CC	TT	1946784240
SNP_P4_37080_1861060	NC_021163.1	Ca_kabuli_chr04	1861060	AA	TT	1946784242
SNP_P4_37081_1861758	NC_021163.1	Ca_kabuli_chr04	1861758	CC	TT	1946784244
SNP_P4_37085_1863252	NC_021163.1	Ca_kabuli_chr04	1863252	CC	TT	1946784246
SNP_P4_37086_1863461	NC_021163.1	Ca_kabuli_chr04	1863461	CC	AA	1946784248
SNP_P4_37087_1864383	NC_021163.1	Ca_kabuli_chr04	1864383	TT	AA	1946784250
SNP_P4_37088_1864384	NC_021163.1	Ca_kabuli_chr04	1864384	AA	TT	1946784252
SNP_P4_37089_1864385	NC_021163.1	Ca_kabuli_chr04	1864385	TT	AA	1946784254
SNP_P4_37091_1864468	NC_021163.1	Ca_kabuli_chr04	1864468	GG	TT	1946784256
SNP_P4_37092_1866090	NC_021163.1	Ca_kabuli_chr04	1866090	AA	GG	1946784258
SNP_P4_37093_1866103	NC_021163.1	Ca_kabuli_chr04	1866103	AA	GG	1946784260
SNP_P4_37094_1867921	NC_021163.1	Ca_kabuli_chr04	1867921	AA	GG	1946784262
SNP_P4_37095_1868098	NC_021163.1	Ca_kabuli_chr04	1868098	GG	AA	1946784264
SNP_P4_37096_1869577	NC_021163.1	Ca_kabuli_chr04	1869577	TT	CC	1946784266
SNP_P4_37097_1870333	NC_021163.1	Ca_kabuli_chr04	1870333	GG	AA	1946784268
SNP_P4_37098_1870802	NC_021163.1	Ca_kabuli_chr04	1870802	TT	CC	1946784270

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_37100_1872768	NC_021163.1	Ca_kabuli_chr04	1872768	AA	TT	1946784274
SNP_P4_37101_1872773	NC_021163.1	Ca_kabuli_chr04	1872773	GG	AA	1946784276
SNP_P4_37102_1877500	NC_021163.1	Ca_kabuli_chr04	1877500	AA	TT	1946784278
SNP_P4_37103_1877585	NC_021163.1	Ca_kabuli_chr04	1877585	GG	AA	1946784280
SNP_P4_37105_1908745	NC_021163.1	Ca_kabuli_chr04	1908745	CC	TT	1946784283
SNP_P4_37107_1928296	NC_021163.1	Ca_kabuli_chr04	1928296	AA	TT	1946784285
SNP_P4_37108_1928299	NC_021163.1	Ca_kabuli_chr04	1928299	TT	GG	1946784286
SNP_P4_37109_1941973	NC_021163.1	Ca_kabuli_chr04	1941973	TT	CC	1946784288
SNP_P4_37111_1977739	NC_021163.1	Ca_kabuli_chr04	1977739	TT	GG	1946784291
SNP_P4_37112_1994953	NC_021163.1	Ca_kabuli_chr04	1994953	GG	TT	1946784293
SNP_P4_37113_2011122	NC_021163.1	Ca_kabuli_chr04	2011122	CC	TT	1946784295
SNP_P4_37114_2011148	NC_021163.1	Ca_kabuli_chr04	2011148	CC	AA	1946784296
SNP_P4_37115_2022435	NC_021163.1	Ca_kabuli_chr04	2022435	GG	AA	1946784298
SNP_P4_37117_2024108	NC_021163.1	Ca_kabuli_chr04	2024108	AA	GG	1946784300
SNP_P4_37118_2024112	NC_021163.1	Ca_kabuli_chr04	2024112	GG	AA	1946784302
SNP_P4_37120_2030240	NC_021163.1	Ca_kabuli_chr04	2030240	CC	TT	1946784304
SNP_P4_37122_2032225	NC_021163.1	Ca_kabuli_chr04	2032225	CC	TT	1946784307
SNP_P4_37123_2032243	NC_021163.1	Ca_kabuli_chr04	2032243	TT	CC	1946784309
SNP_P4_37124_2032252	NC_021163.1	Ca_kabuli_chr04	2032252	TT	GG	1946784311
SNP_P4_37125_2032329	NC_021163.1	Ca_kabuli_chr04	2032329	CC	TT	1946784313
SNP_P4_37126_2032396	NC_021163.1	Ca_kabuli_chr04	2032396	GG	CC	1946784315
SNP_P4_37127_2032416	NC_021163.1	Ca_kabuli_chr04	2032416	CC	GG	1946784317
SNP_P4_37128_2032449	NC_021163.1	Ca_kabuli_chr04	2032449	AA	GG	1946784319
SNP_P4_37129_2032480	NC_021163.1	Ca_kabuli_chr04	2032480	TT	CC	1946784321
SNP_P4_37130_2032481	NC_021163.1	Ca_kabuli_chr04	2032481	GG	TT	1946784323
SNP_P4_37131_2032510	NC_021163.1	Ca_kabuli_chr04	2032510	AA	TT	1946784325
SNP_P4_37132_2032529	NC_021163.1	Ca_kabuli_chr04	2032529	GG	AA	1946784327
SNP_P4_37134_2032567	NC_021163.1	Ca_kabuli_chr04	2032567	TT	CC	1946784329
SNP_P4_37135_2032582	NC_021163.1	Ca_kabuli_chr04	2032582	CC	TT	1946784332
SNP_P4_37136_2032636	NC_021163.1	Ca_kabuli_chr04	2032636	AA	GG	1946784334
SNP_P4_37137_2032638	NC_021163.1	Ca_kabuli_chr04	2032638	TT	AA	1946784336
SNP_P4_37138_2032773	NC_021163.1	Ca_kabuli_chr04	2032773	AA	TT	1946784338
SNP_P4_37139_2032846	NC_021163.1	Ca_kabuli_chr04	2032846	AA	GG	1946784340
SNP_P4_37140_2032858	NC_021163.1	Ca_kabuli_chr04	2032858	AA	GG	1946784342
SNP_P4_37141_2032866	NC_021163.1	Ca_kabuli_chr04	2032866	GG	CC	1946784344
SNP_P4_37142_2034132	NC_021163.1	Ca_kabuli_chr04	2034132	GG	AA	1946784346
SNP_P4_37143_2034149	NC_021163.1	Ca_kabuli_chr04	2034149	TT	CC	1946784348
SNP_P4_37144_2034152	NC_021163.1	Ca_kabuli_chr04	2034152	TT	CC	1946784350
SNP_P4_37145_2034169	NC_021163.1	Ca_kabuli_chr04	2034169	TT	CC	1946784352
SNP_P4_37146_2034182	NC_021163.1	Ca_kabuli_chr04	2034182	CC	AA	1946784354
SNP_P4_37147_2034304	NC_021163.1	Ca_kabuli_chr04	2034304	GG	AA	1946784356

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_37149_2034385	NC_021163.1	Ca_kabuli_chr04	2034385	CC	AA	1946784361
SNP_P4_37150_2034396	NC_021163.1	Ca_kabuli_chr04	2034396	GG	AA	1946784363
SNP_P4_37151_2034398	NC_021163.1	Ca_kabuli_chr04	2034398	TT	CC	1946784365
SNP_P4_37153_2034505	NC_021163.1	Ca_kabuli_chr04	2034505	GG	AA	1946784367
SNP_P4_37154_2034547	NC_021163.1	Ca_kabuli_chr04	2034547	GG	AA	1946784369
SNP_P4_37155_2034548	NC_021163.1	Ca_kabuli_chr04	2034548	TT	CC	1946784371
SNP_P4_37156_2034556	NC_021163.1	Ca_kabuli_chr04	2034556	GG	AA	1946784373
SNP_P4_37158_2034717	NC_021163.1	Ca_kabuli_chr04	2034717	GG	CC	1946784376
SNP_P4_37159_2034721	NC_021163.1	Ca_kabuli_chr04	2034721	GG	AA	1946784378
SNP_P4_37160_2034756	NC_021163.1	Ca_kabuli_chr04	2034756	AA	GG	1946784380
SNP_P4_37161_2034757	NC_021163.1	Ca_kabuli_chr04	2034757	AA	CC	1946784383
SNP_P4_37162_2034768	NC_021163.1	Ca_kabuli_chr04	2034768	GG	AA	1946784385
SNP_P4_37163_2034835	NC_021163.1	Ca_kabuli_chr04	2034835	GG	CC	1946784387
SNP_P4_37164_2034850	NC_021163.1	Ca_kabuli_chr04	2034850	TT	CC	1946784389
SNP_P4_37165_2034894	NC_021163.1	Ca_kabuli_chr04	2034894	TT	CC	1946784392
SNP_P4_37166_2034900	NC_021163.1	Ca_kabuli_chr04	2034900	AA	TT	1946784394
SNP_P4_37167_2034952	NC_021163.1	Ca_kabuli_chr04	2034952	AA	GG	1946784396
SNP_P4_37168_2034974	NC_021163.1	Ca_kabuli_chr04	2034974	GG	TT	1946784398
SNP_P4_37169_2035015	NC_021163.1	Ca_kabuli_chr04	2035015	GG	TT	1946784400
SNP_P4_37170_2035016	NC_021163.1	Ca_kabuli_chr04	2035016	TT	AA	1946784403
SNP_P4_37171_2035035	NC_021163.1	Ca_kabuli_chr04	2035035	GG	CC	1946784405
SNP_P4_37172_2035047	NC_021163.1	Ca_kabuli_chr04	2035047	AA	TT	1946784407
SNP_P4_37173_2035090	NC_021163.1	Ca_kabuli_chr04	2035090	TT	CC	1946784409
SNP_P4_37175_2035166	NC_021163.1	Ca_kabuli_chr04	2035166	AA	GG	1946784412
SNP_P4_37176_2035174	NC_021163.1	Ca_kabuli_chr04	2035174	CC	TT	1946784414
SNP_P4_37179_2035329	NC_021163.1	Ca_kabuli_chr04	2035329	AA	CC	1946784416
SNP_P4_37180_2035330	NC_021163.1	Ca_kabuli_chr04	2035330	GG	CC	1946784418
SNP_P4_37181_2035400	NC_021163.1	Ca_kabuli_chr04	2035400	AA	GG	1946784420
SNP_P4_37182_2035405	NC_021163.1	Ca_kabuli_chr04	2035405	GG	AA	1946784422
SNP_P4_37183_2035415	NC_021163.1	Ca_kabuli_chr04	2035415	CC	TT	1946784424
SNP_P4_37184_2035525	NC_021163.1	Ca_kabuli_chr04	2035525	AA	GG	1946784426
SNP_P4_37185_2035526	NC_021163.1	Ca_kabuli_chr04	2035526	GG	AA	1946784428
SNP_P4_37186_2035530	NC_021163.1	Ca_kabuli_chr04	2035530	CC	TT	1946784429
SNP_P4_37187_2035543	NC_021163.1	Ca_kabuli_chr04	2035543	GG	TT	1946784430
SNP_P4_37188_2035561	NC_021163.1	Ca_kabuli_chr04	2035561	TT	GG	1946784431
SNP_P4_37189_2035584	NC_021163.1	Ca_kabuli_chr04	2035584	GG	AA	1946784433
SNP_P4_37190_2035678	NC_021163.1	Ca_kabuli_chr04	2035678	TT	CC	1946784435
SNP_P4_37191_2035692	NC_021163.1	Ca_kabuli_chr04	2035692	AA	CC	1946784437
SNP_P4_37193_2035720	NC_021163.1	Ca_kabuli_chr04	2035720	TT	CC	1946784440
SNP_P4_37194_2035757	NC_021163.1	Ca_kabuli_chr04	2035757	CC	TT	1946784443
SNP_P4_37196_2035841	NC_021163.1	Ca_kabuli_chr04	2035841	TT	CC	1946784445

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_37197_2035894	NC_021163.1	Ca_kabuli_chr04	2035894	AA	CC	1946784447
SNP_P4_37198_2035921	NC_021163.1	Ca_kabuli_chr04	2035921	AA	TT	1946784449
SNP_P4_37199_2035923	NC_021163.1	Ca_kabuli_chr04	2035923	GG	AA	1946784451
SNP_P4_37200_2035930	NC_021163.1	Ca_kabuli_chr04	2035930	AA	TT	1946784453
SNP_P4_37201_2035955	NC_021163.1	Ca_kabuli_chr04	2035955	CC	AA	1946784455
SNP_P4_37202_2035979	NC_021163.1	Ca_kabuli_chr04	2035979	GG	AA	1946784457
SNP_P4_37203_2036101	NC_021163.1	Ca_kabuli_chr04	2036101	TT	AA	1946784459
SNP_P4_37204_2036112	NC_021163.1	Ca_kabuli_chr04	2036112	AA	CC	1946784461
SNP_P4_37205_2050327	NC_021163.1	Ca_kabuli_chr04	2050327	TT	CC	1946784464
SNP_P4_37207_2054649	NC_021163.1	Ca_kabuli_chr04	2054649	TT	GG	1946784466
SNP_P4_37208_2054650	NC_021163.1	Ca_kabuli_chr04	2054650	TT	GG	1946784468
SNP_P4_37209_2083596	NC_021163.1	Ca_kabuli_chr04	2083596	TT	CC	1946784471
SNP_P4_37210_2097353	NC_021163.1	Ca_kabuli_chr04	2097353	GG	AA	1946784473
SNP_P4_37211_2099537	NC_021163.1	Ca_kabuli_chr04	2099537	CC	TT	1946784475
SNP_P4_37213_2110908	NC_021163.1	Ca_kabuli_chr04	2110908	CC	TT	1946784477
SNP_P4_37214_2122788	NC_021163.1	Ca_kabuli_chr04	2122788	TT	CC	1946784480
SNP_P4_37215_2130281	NC_021163.1	Ca_kabuli_chr04	2130281	AA	GG	1946784482
SNP_P4_37217_2139272	NC_021163.1	Ca_kabuli_chr04	2139272	AA	TT	1946784484
SNP_P4_37219_2141025	NC_021163.1	Ca_kabuli_chr04	2141025	GG	AA	1946784486
SNP_P4_37221_2169750	NC_021163.1	Ca_kabuli_chr04	2169750	GG	AA	1946784488
SNP_P4_37222_2208611	NC_021163.1	Ca_kabuli_chr04	2208611	AA	TT	1946784490
SNP_P4_37223_2208617	NC_021163.1	Ca_kabuli_chr04	2208617	AA	TT	1946784492
SNP_P4_37224_2208625	NC_021163.1	Ca_kabuli_chr04	2208625	AA	GG	1946784494
SNP_P4_37225_2211561	NC_021163.1	Ca_kabuli_chr04	2211561	TT	CC	1946784496
SNP_P4_37226_2223828	NC_021163.1	Ca_kabuli_chr04	2223828	AA	CC	1946784498
SNP_P4_37228_2233917	NC_021163.1	Ca_kabuli_chr04	2233917	CC	GG	1946784500
SNP_P4_37229_2249905	NC_021163.1	Ca_kabuli_chr04	2249905	AA	TT	1946784502
SNP_P4_37230_2274493	NC_021163.1	Ca_kabuli_chr04	2274493	AA	GG	1946784504
SNP_P4_37232_2298239	NC_021163.1	Ca_kabuli_chr04	2298239	TT	CC	1946784506
SNP_P4_37233_2323431	NC_021163.1	Ca_kabuli_chr04	2323431	TT	CC	1946784509
SNP_P4_37234_2351345	NC_021163.1	Ca_kabuli_chr04	2351345	CC	TT	1946784512
SNP_P4_37235_2366921	NC_021163.1	Ca_kabuli_chr04	2366921	CC	TT	1946784514
SNP_P4_37236_2381139	NC_021163.1	Ca_kabuli_chr04	2381139	CC	TT	1946784515
SNP_P4_37237_2388809	NC_021163.1	Ca_kabuli_chr04	2388809	TT	AA	1946784517
SNP_P4_37238_2390407	NC_021163.1	Ca_kabuli_chr04	2390407	CC	AA	1946784519
SNP_P4_37240_2405649	NC_021163.1	Ca_kabuli_chr04	2405649	TT	CC	1946784521
SNP_P4_37241_2445378	NC_021163.1	Ca_kabuli_chr04	2445378	TT	GG	1946784523
SNP_P4_37243_2449197	NC_021163.1	Ca_kabuli_chr04	2449197	TT	GG	1946784525
SNP_P4_37244_2459531	NC_021163.1	Ca_kabuli_chr04	2459531	CC	TT	1946784528
SNP_P4_37245_2468332	NC_021163.1	Ca_kabuli_chr04	2468332	TT	CC	1946784530
SNP_P4_37246_2469045	NC_021163.1	Ca_kabuli_chr04	2469045	AA	TT	1946784532
SNP_P4_37248_2487345	NC_021163.1	Ca_kabuli_chr04	2487345	CC	TT	1946784534

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_37250_2563223	NC_021163.1	Ca_kabuli_chr04	2563223	TT	GG	1946784537
SNP_P4_37253_2680652	NC_021163.1	Ca_kabuli_chr04	2680652	TT	CC	1946784539
SNP_P4_37254_2680653	NC_021163.1	Ca_kabuli_chr04	2680653	TT	AA	1946784541
SNP_P4_37255_2680871	NC_021163.1	Ca_kabuli_chr04	2680871	GG	CC	1946784544
SNP_P4_37256_2687830	NC_021163.1	Ca_kabuli_chr04	2687830	CC	AA	1946784546
SNP_P4_37257_2687833	NC_021163.1	Ca_kabuli_chr04	2687833	CC	TT	1946784548
SNP_P4_37258_2687896	NC_021163.1	Ca_kabuli_chr04	2687896	TT	CC	1946784550
SNP_P4_37259_2688220	NC_021163.1	Ca_kabuli_chr04	2688220	GG	AA	1946784552
SNP_P4_37260_2688270	NC_021163.1	Ca_kabuli_chr04	2688270	AA	GG	1946784554
SNP_P4_37261_2690213	NC_021163.1	Ca_kabuli_chr04	2690213	TT	CC	1946784556
SNP_P4_37262_2690248	NC_021163.1	Ca_kabuli_chr04	2690248	CC	AA	1946784558
SNP_P4_37264_2692142	NC_021163.1	Ca_kabuli_chr04	2692142	TT	CC	1946784560
SNP_P4_37266_2741282	NC_021163.1	Ca_kabuli_chr04	2741282	TT	CC	1946784562
SNP_P4_37268_2812229	NC_021163.1	Ca_kabuli_chr04	2812229	GG	AA	1946784564
SNP_P4_37269_2828425	NC_021163.1	Ca_kabuli_chr04	2828425	CC	AA	1946784566
SNP_P4_37270_2894587	NC_021163.1	Ca_kabuli_chr04	2894587	AA	TT	1946784568
SNP_P4_37271_2952584	NC_021163.1	Ca_kabuli_chr04	2952584	TT	AA	1946784570
SNP_P4_37272_2958372	NC_021163.1	Ca_kabuli_chr04	2958372	TT	CC	1946784571
SNP_P4_37273_2973525	NC_021163.1	Ca_kabuli_chr04	2973525	AA	CC	1946784573
SNP_P4_37275_3029425	NC_021163.1	Ca_kabuli_chr04	3029425	GG	AA	1946784575
SNP_P4_37277_3054533	NC_021163.1	Ca_kabuli_chr04	3054533	GG	AA	1946784577
SNP_P4_37279_3087340	NC_021163.1	Ca_kabuli_chr04	3087340	GG	CC	1946784579
SNP_P4_37280_3121438	NC_021163.1	Ca_kabuli_chr04	3121438	AA	CC	1946784581
SNP_P4_37281_3121439	NC_021163.1	Ca_kabuli_chr04	3121439	AA	CC	1946784584
SNP_P4_37282_3136030	NC_021163.1	Ca_kabuli_chr04	3136030	AA	TT	1946784586
SNP_P4_37283_3182989	NC_021163.1	Ca_kabuli_chr04	3182989	GG	AA	1946784588
SNP_P4_37285_3232864	NC_021163.1	Ca_kabuli_chr04	3232864	AA	TT	1946784590
SNP_P4_37286_3239502	NC_021163.1	Ca_kabuli_chr04	3239502	TT	AA	1946784592
SNP_P4_37287_3239505	NC_021163.1	Ca_kabuli_chr04	3239505	TT	AA	1946784594
SNP_P4_37289_3345366	NC_021163.1	Ca_kabuli_chr04	3345366	CC	TT	1946784596
SNP_P4_37291_3345890	NC_021163.1	Ca_kabuli_chr04	3345890	AA	GG	1946784598
SNP_P4_37292_3345892	NC_021163.1	Ca_kabuli_chr04	3345892	GG	AA	1946784600
SNP_P4_37293_3351875	NC_021163.1	Ca_kabuli_chr04	3351875	GG	TT	1946784602
SNP_P4_37294_3355608	NC_021163.1	Ca_kabuli_chr04	3355608	CC	TT	1946784604
SNP_P4_37295_3355798	NC_021163.1	Ca_kabuli_chr04	3355798	AA	CC	1946784607
SNP_P4_37297_3355854	NC_021163.1	Ca_kabuli_chr04	3355854	AA	GG	1946784609
SNP_P4_37298_3355865	NC_021163.1	Ca_kabuli_chr04	3355865	GG	CC	1946784611
SNP_P4_37299_3355909	NC_021163.1	Ca_kabuli_chr04	3355909	GG	CC	1946784613
SNP_P4_37300_3355921	NC_021163.1	Ca_kabuli_chr04	3355921	AA	CC	1946784615
SNP_P4_37303_3392394	NC_021163.1	Ca_kabuli_chr04	3392394	TT	AA	1946784617
SNP_P4_37305_3445092	NC_021163.1	Ca_kabuli_chr04	3445092	TT	GG	1946784619

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_37307_3476239	NC_021163.1	Ca_kabuli_chr04	3476239	GG	AA	1946784623
SNP_P4_37309_3506647	NC_021163.1	Ca_kabuli_chr04	3506647	TT	CC	1946784625
SNP_P4_37310_3542444	NC_021163.1	Ca_kabuli_chr04	3542444	CC	TT	1946784627
SNP_P4_37311_3556441	NC_021163.1	Ca_kabuli_chr04	3556441	TT	AA	1946784629
SNP_P4_37312_3556486	NC_021163.1	Ca_kabuli_chr04	3556486	TT	CC	1946784631
SNP_P4_37313_3559868	NC_021163.1	Ca_kabuli_chr04	3559868	GG	AA	1946784633
SNP_P4_37314_3560247	NC_021163.1	Ca_kabuli_chr04	3560247	CC	TT	1946784635
SNP_P4_37315_3567991	NC_021163.1	Ca_kabuli_chr04	3567991	TT	AA	1946784637
SNP_P4_37316_3579781	NC_021163.1	Ca_kabuli_chr04	3579781	GG	AA	1946784639
SNP_P4_37317_3602736	NC_021163.1	Ca_kabuli_chr04	3602736	AA	CC	1946784641
SNP_P4_37318_3629433	NC_021163.1	Ca_kabuli_chr04	3629433	CC	GG	1946784643
SNP_P4_37322_3723845	NC_021163.1	Ca_kabuli_chr04	3723845	TT	CC	1946784645
SNP_P4_37323_3733972	NC_021163.1	Ca_kabuli_chr04	3733972	CC	TT	1946784647
SNP_P4_37326_3778970	NC_021163.1	Ca_kabuli_chr04	3778970	TT	GG	1946784649
SNP_P4_37328_3780569	NC_021163.1	Ca_kabuli_chr04	3780569	GG	AA	1946784651
SNP_P4_37329_3794622	NC_021163.1	Ca_kabuli_chr04	3794622	TT	CC	1946784654
SNP_P4_37331_3833261	NC_021163.1	Ca_kabuli_chr04	3833261	AA	TT	1946784656
SNP_P4_37332_3833279	NC_021163.1	Ca_kabuli_chr04	3833279	CC	TT	1946784658
SNP_P4_37333_3833283	NC_021163.1	Ca_kabuli_chr04	3833283	CC	TT	1946784660
SNP_P4_37334_3833300	NC_021163.1	Ca_kabuli_chr04	3833300	AA	TT	1946784662
SNP_P4_37335_3833345	NC_021163.1	Ca_kabuli_chr04	3833345	GG	AA	1946784664
SNP_P4_37336_3833365	NC_021163.1	Ca_kabuli_chr04	3833365	TT	CC	1946784666
SNP_P4_37337_3833433	NC_021163.1	Ca_kabuli_chr04	3833433	TT	AA	1946784668
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SNP_P4_37341_3847522	NC_021163.1	Ca_kabuli_chr04	3847522	GG	AA	1946784676
SNP_P4_37342_3851227	NC_021163.1	Ca_kabuli_chr04	3851227	GG	CC	1946784678
SNP_P4_37344_3868479	NC_021163.1	Ca_kabuli_chr04	3868479	GG	AA	1946784680
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SNP_P4_37346_3869698	NC_021163.1	Ca_kabuli_chr04	3869698	GG	TT	1946784685
SNP_P4_37347_3869993	NC_021163.1	Ca_kabuli_chr04	3869993	AA	TT	1946784687
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SNP_P4_37350_3871941	NC_021163.1	Ca_kabuli_chr04	3871941	CC	AA	1946784691
SNP_P4_37351_3871942	NC_021163.1	Ca_kabuli_chr04	3871942	AA	TT	1946784693
SNP_P4_37352_3872059	NC_021163.1	Ca_kabuli_chr04	3872059	TT	GG	1946784695
SNP_P4_37353_3872267	NC_021163.1	Ca_kabuli_chr04	3872267	TT	AA	1946784697
SNP_P4_37354_3872325	NC_021163.1	Ca_kabuli_chr04	3872325	TT	CC	1946784699
SNP_P4_37355_3872366	NC_021163.1	Ca_kabuli_chr04	3872366	AA	GG	1946784701
SNP_P4_37356_3872378	NC_021163.1	Ca_kabuli_chr04	3872378	GG	AA	1946784703
SNP_P4_37357_3872555	NC_021163.1	Ca_kabuli_chr04	3872555	TT	CC	1946784705

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_37359_3872654	NC_021163.1	Ca_kabuli_chr04	3872654	TT	CC	1946784709
SNP_P4_37360_3877160	NC_021163.1	Ca_kabuli_chr04	3877160	AA	TT	1946784711
SNP_P4_37361_3894879	NC_021163.1	Ca_kabuli_chr04	3894879	GG	AA	1946784713
SNP_P4_37362_3897527	NC_021163.1	Ca_kabuli_chr04	3897527	TT	CC	1946784715
SNP_P4_37363_3903376	NC_021163.1	Ca_kabuli_chr04	3903376	GG	TT	1946784717
SNP_P4_37364_3906528	NC_021163.1	Ca_kabuli_chr04	3906528	TT	CC	1946784719
SNP_P4_37366_3917523	NC_021163.1	Ca_kabuli_chr04	3917523	AA	CC	1946784721
SNP_P4_37367_3924979	NC_021163.1	Ca_kabuli_chr04	3924979	TT	AA	1946784723
SNP_P4_37368_3927479	NC_021163.1	Ca_kabuli_chr04	3927479	TT	CC	1946784725
SNP_P4_37369_3951384	NC_021163.1	Ca_kabuli_chr04	3951384	GG	AA	1946784728
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SNP_P4_37379_3992721	NC_021163.1	Ca_kabuli_chr04	3992721	TT	GG	1946784744
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SNP_P4_37383_3993598	NC_021163.1	Ca_kabuli_chr04	3993598	GG	CC	1946784750
SNP_P4_37384_3993650	NC_021163.1	Ca_kabuli_chr04	3993650	CC	AA	1946784752
SNP_P4_37385_3993673	NC_021163.1	Ca_kabuli_chr04	3993673	GG	AA	1946784754
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SNP_P4_37387_3994092	NC_021163.1	Ca_kabuli_chr04	3994092	GG	AA	1946784758
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SNP_P4_37390_3996728	NC_021163.1	Ca_kabuli_chr04	3996728	GG	AA	1946784764
SNP_P4_37391_3996775	NC_021163.1	Ca_kabuli_chr04	3996775	AA	TT	1946784766
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SNP_P4_37393_3996827	NC_021163.1	Ca_kabuli_chr04	3996827	TT	GG	1946784770
SNP_P4_37394_3998254	NC_021163.1	Ca_kabuli_chr04	3998254	AA	GG	1946784772
SNP_P4_37395_3998272	NC_021163.1	Ca_kabuli_chr04	3998272	TT	AA	1946784774
SNP_P4_37396_3998275	NC_021163.1	Ca_kabuli_chr04	3998275	AA	TT	1946784776
SNP_P4_37397_3998276	NC_021163.1	Ca_kabuli_chr04	3998276	TT	AA	1946784778
SNP_P4_37398_3998286	NC_021163.1	Ca_kabuli_chr04	3998286	GG	AA	1946784780
SNP_P4_37399_3998396	NC_021163.1	Ca_kabuli_chr04	3998396	AA	TT	1946784782
SNP_P4_37401_4000647	NC_021163.1	Ca_kabuli_chr04	4000647	GG	AA	1946784784
SNP_P4_37402_4000680	NC_021163.1	Ca_kabuli_chr04	4000680	AA	GG	1946784786
SNP_P4_37403_4000726	NC_021163.1	Ca_kabuli_chr04	4000726	CC	TT	1946784788
SNP_P4_37404_4001908	NC_021163.1	Ca_kabuli_chr04	4001908	AA	CC	1946784790

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_37405_4007499	NC_021163.1	Ca_kabuli_chr04	4007499	GG	TT	1946784792
SNP_P4_37406_4008124	NC_021163.1	Ca_kabuli_chr04	4008124	TT	AA	1946784794
SNP_P4_37407_4008179	NC_021163.1	Ca_kabuli_chr04	4008179	TT	CC	1946784796
SNP_P4_37410_4008325	NC_021163.1	Ca_kabuli_chr04	4008325	TT	AA	1946784798
SNP_P4_37411_4008326	NC_021163.1	Ca_kabuli_chr04	4008326	TT	AA	1946784800
SNP_P4_37412_4008365	NC_021163.1	Ca_kabuli_chr04	4008365	TT	AA	1946784802
SNP_P4_37413_4008439	NC_021163.1	Ca_kabuli_chr04	4008439	GG	AA	1946784804
SNP_P4_37414_4008532	NC_021163.1	Ca_kabuli_chr04	4008532	AA	TT	1946784806
SNP_P4_37415_4008539	NC_021163.1	Ca_kabuli_chr04	4008539	AA	GG	1946784808
SNP_P4_37416_4008572	NC_021163.1	Ca_kabuli_chr04	4008572	GG	AA	1946784810
SNP_P4_37417_4008717	NC_021163.1	Ca_kabuli_chr04	4008717	TT	CC	1946784812
SNP_P4_37418_4008984	NC_021163.1	Ca_kabuli_chr04	4008984	GG	AA	1946784814
SNP_P4_37419_4009037	NC_021163.1	Ca_kabuli_chr04	4009037	TT	CC	1946784816
SNP_P4_37420_4011302	NC_021163.1	Ca_kabuli_chr04	4011302	GG	AA	1946784818
SNP_P4_37421_4011415	NC_021163.1	Ca_kabuli_chr04	4011415	TT	CC	1946784820
SNP_P4_37423_4011633	NC_021163.1	Ca_kabuli_chr04	4011633	TT	AA	1946784822
SNP_P4_37424_4011689	NC_021163.1	Ca_kabuli_chr04	4011689	CC	TT	1946784825
SNP_P4_37425_4012694	NC_021163.1	Ca_kabuli_chr04	4012694	CC	GG	1946784827
SNP_P4_37426_4012824	NC_021163.1	Ca_kabuli_chr04	4012824	GG	CC	1946784829
SNP_P4_37429_4013680	NC_021163.1	Ca_kabuli_chr04	4013680	CC	TT	1946784831
SNP_P4_37430_4013698	NC_021163.1	Ca_kabuli_chr04	4013698	TT	AA	1946784833
SNP_P4_37431_4013699	NC_021163.1	Ca_kabuli_chr04	4013699	CC	AA	1946784835
SNP_P4_37432_4013965	NC_021163.1	Ca_kabuli_chr04	4013965	AA	GG	1946784837
SNP_P4_37433_4013976	NC_021163.1	Ca_kabuli_chr04	4013976	AA	GG	1946784839
SNP_P4_37434_4013995	NC_021163.1	Ca_kabuli_chr04	4013995	TT	CC	1946784841
SNP_P4_37435_4014351	NC_021163.1	Ca_kabuli_chr04	4014351	TT	AA	1946784843
SNP_P4_37437_4016511	NC_021163.1	Ca_kabuli_chr04	4016511	CC	AA	1946784845
SNP_P4_37438_4016529	NC_021163.1	Ca_kabuli_chr04	4016529	AA	GG	1946784847
SNP_P4_37439_4016579	NC_021163.1	Ca_kabuli_chr04	4016579	AA	GG	1946784849
SNP_P4_37440_4016585	NC_021163.1	Ca_kabuli_chr04	4016585	CC	TT	1946784851
SNP_P4_37441_4016621	NC_021163.1	Ca_kabuli_chr04	4016621	GG	AA	1946784853
SNP_P4_37442_4016622	NC_021163.1	Ca_kabuli_chr04	4016622	TT	CC	1946784855
SNP_P4_37443_4016623	NC_021163.1	Ca_kabuli_chr04	4016623	GG	AA	1946784858
SNP_P4_37444_4016937	NC_021163.1	Ca_kabuli_chr04	4016937	AA	CC	1946784860
SNP_P4_37445_4017721	NC_021163.1	Ca_kabuli_chr04	4017721	TT	GG	1946784862
SNP_P4_37446_4017727	NC_021163.1	Ca_kabuli_chr04	4017727	AA	GG	1946784864
SNP_P4_37447_4020107	NC_021163.1	Ca_kabuli_chr04	4020107	GG	TT	1946784866
SNP_P4_37448_4021589	NC_021163.1	Ca_kabuli_chr04	4021589	GG	AA	1946784868
SNP_P4_37449_4021591	NC_021163.1	Ca_kabuli_chr04	4021591	GG	AA	1946784870
SNP_P4_37450_4021603	NC_021163.1	Ca_kabuli_chr04	4021603	AA	GG	1946784872
SNP_P4_37451_4021724	NC_021163.1	Ca_kabuli_chr04	4021724	GG	CC	1946784875
SNP_P4_37452_4021761	NC_021163.1	Ca_kabuli_chr04	4021761	GG	TT	1946784877

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_37454_4021790	NC_021163.1	Ca_kabuli_chr04	4021790	TT	GG	1946784882
SNP_P4_37455_4021796	NC_021163.1	Ca_kabuli_chr04	4021796	TT	AA	1946784884
SNP_P4_37456_4021828	NC_021163.1	Ca_kabuli_chr04	4021828	GG	AA	1946784886
SNP_P4_37457_4021839	NC_021163.1	Ca_kabuli_chr04	4021839	CC	AA	1946784888
SNP_P4_37458_4021840	NC_021163.1	Ca_kabuli_chr04	4021840	AA	TT	1946784890
SNP_P4_37459_4022141	NC_021163.1	Ca_kabuli_chr04	4022141	GG	AA	1946784892
SNP_P4_37460_4022216	NC_021163.1	Ca_kabuli_chr04	4022216	GG	TT	1946784894
SNP_P4_37461_4022427	NC_021163.1	Ca_kabuli_chr04	4022427	AA	TT	1946784896
SNP_P4_37462_4022429	NC_021163.1	Ca_kabuli_chr04	4022429	AA	GG	1946784898
SNP_P4_37463_4022451	NC_021163.1	Ca_kabuli_chr04	4022451	TT	AA	1946784900
SNP_P4_37464_4022463	NC_021163.1	Ca_kabuli_chr04	4022463	TT	CC	1946784902
SNP_P4_37465_4022464	NC_021163.1	Ca_kabuli_chr04	4022464	TT	CC	1946784905
SNP_P4_37466_4022688	NC_021163.1	Ca_kabuli_chr04	4022688	AA	GG	1946784907
SNP_P4_37467_4022689	NC_021163.1	Ca_kabuli_chr04	4022689	CC	TT	1946784909
SNP_P4_37468_4022694	NC_021163.1	Ca_kabuli_chr04	4022694	AA	GG	1946784911
SNP_P4_37469_4022919	NC_021163.1	Ca_kabuli_chr04	4022919	TT	AA	1946784913
SNP_P4_37470_4022937	NC_021163.1	Ca_kabuli_chr04	4022937	TT	AA	1946784915
SNP_P4_37471_4023788	NC_021163.1	Ca_kabuli_chr04	4023788	TT	GG	1946784917
SNP_P4_37472_4023904	NC_021163.1	Ca_kabuli_chr04	4023904	CC	TT	1946784919
SNP_P4_37473_4024900	NC_021163.1	Ca_kabuli_chr04	4024900	AA	TT	1946784921
SNP_P4_37474_4024906	NC_021163.1	Ca_kabuli_chr04	4024906	TT	AA	1946784923
SNP_P4_37475_4024915	NC_021163.1	Ca_kabuli_chr04	4024915	AA	GG	1946784925
SNP_P4_37476_4024918	NC_021163.1	Ca_kabuli_chr04	4024918	AA	TT	1946784928
SNP_P4_37478_4025088	NC_021163.1	Ca_kabuli_chr04	4025088	GG	AA	1946784930
SNP_P4_37479_4025127	NC_021163.1	Ca_kabuli_chr04	4025127	AA	GG	1946784932
SNP_P4_37480_4025413	NC_021163.1	Ca_kabuli_chr04	4025413	GG	TT	1946784934
SNP_P4_37481_4025414	NC_021163.1	Ca_kabuli_chr04	4025414	TT	CC	1946784936
SNP_P4_37482_4025426	NC_021163.1	Ca_kabuli_chr04	4025426	GG	AA	1946784938
SNP_P4_37483_4025456	NC_021163.1	Ca_kabuli_chr04	4025456	AA	TT	1946784940
SNP_P4_37484_4025576	NC_021163.1	Ca_kabuli_chr04	4025576	AA	CC	1946784942
SNP_P4_37485_4025640	NC_021163.1	Ca_kabuli_chr04	4025640	AA	GG	1946784944
SNP_P4_37486_4027249	NC_021163.1	Ca_kabuli_chr04	4027249	CC	TT	1946784946
SNP_P4_37487_4027281	NC_021163.1	Ca_kabuli_chr04	4027281	TT	CC	1946784948
SNP_P4_37488_4028932	NC_021163.1	Ca_kabuli_chr04	4028932	AA	GG	1946784950
SNP_P4_37490_4030679	NC_021163.1	Ca_kabuli_chr04	4030679	AA	CC	1946784953
SNP_P4_37491_4030680	NC_021163.1	Ca_kabuli_chr04	4030680	GG	TT	1946784955
SNP_P4_37492_4030700	NC_021163.1	Ca_kabuli_chr04	4030700	GG	AA	1946784957
SNP_P4_37493_4031549	NC_021163.1	Ca_kabuli_chr04	4031549	AA	GG	1946784959
SNP_P4_37494_4031551	NC_021163.1	Ca_kabuli_chr04	4031551	AA	CC	1946784961
SNP_P4_37496_4031973	NC_021163.1	Ca_kabuli_chr04	4031973	TT	CC	1946784963
SNP_P4_37497_4031999	NC_021163.1	Ca_kabuli_chr04	4031999	CC	TT	1946784965

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_37499_4032432	NC_021163.1	Ca_kabuli_chr04	4032432	CC	TT	1946784969
SNP_P4_37501_4032807	NC_021163.1	Ca_kabuli_chr04	4032807	AA	CC	1946784972
SNP_P4_37502_4034247	NC_021163.1	Ca_kabuli_chr04	4034247	AA	TT	1946784974
SNP_P4_37503_4034282	NC_021163.1	Ca_kabuli_chr04	4034282	GG	AA	1946784976
SNP_P4_37504_4034396	NC_021163.1	Ca_kabuli_chr04	4034396	AA	GG	1946784978
SNP_P4_37505_4034651	NC_021163.1	Ca_kabuli_chr04	4034651	TT	CC	1946784980
SNP_P4_37508_4035636	NC_021163.1	Ca_kabuli_chr04	4035636	GG	TT	1946784983
SNP_P4_37509_4035664	NC_021163.1	Ca_kabuli_chr04	4035664	GG	AA	1946784985
SNP_P4_37510_4036773	NC_021163.1	Ca_kabuli_chr04	4036773	GG	AA	1946784987
SNP_P4_37513_4038906	NC_021163.1	Ca_kabuli_chr04	4038906	AA	GG	1946784989
SNP_P4_37514_4038970	NC_021163.1	Ca_kabuli_chr04	4038970	AA	CC	1946784991
SNP_P4_37516_4039526	NC_021163.1	Ca_kabuli_chr04	4039526	TT	GG	1946784993
SNP_P4_37517_4039623	NC_021163.1	Ca_kabuli_chr04	4039623	GG	AA	1946784995
SNP_P4_37518_4040067	NC_021163.1	Ca_kabuli_chr04	4040067	AA	TT	1946784998
SNP_P4_37519_4040083	NC_021163.1	Ca_kabuli_chr04	4040083	TT	CC	1946785000
SNP_P4_37520_4040084	NC_021163.1	Ca_kabuli_chr04	4040084	GG	AA	1946785002
SNP_P4_37521_4040287	NC_021163.1	Ca_kabuli_chr04	4040287	CC	TT	1946785004
SNP_P4_37522_4040296	NC_021163.1	Ca_kabuli_chr04	4040296	CC	TT	1946785006
SNP_P4_37523_4040326	NC_021163.1	Ca_kabuli_chr04	4040326	CC	TT	1946785008
SNP_P4_37524_4040349	NC_021163.1	Ca_kabuli_chr04	4040349	CC	TT	1946785010
SNP_P4_37525_4040374	NC_021163.1	Ca_kabuli_chr04	4040374	GG	AA	1946785012
SNP_P4_37526_4040385	NC_021163.1	Ca_kabuli_chr04	4040385	TT	GG	1946785014
SNP_P4_37527_4040404	NC_021163.1	Ca_kabuli_chr04	4040404	CC	AA	1946785016
SNP_P4_37528_4040487	NC_021163.1	Ca_kabuli_chr04	4040487	CC	AA	1946785019
SNP_P4_37529_4040491	NC_021163.1	Ca_kabuli_chr04	4040491	GG	TT	1946785021
SNP_P4_37530_4040552	NC_021163.1	Ca_kabuli_chr04	4040552	GG	AA	1946785023
SNP_P4_37531_4040556	NC_021163.1	Ca_kabuli_chr04	4040556	TT	AA	1946785025
SNP_P4_37533_4042922	NC_021163.1	Ca_kabuli_chr04	4042922	GG	CC	1946785027
SNP_P4_37534_4043454	NC_021163.1	Ca_kabuli_chr04	4043454	GG	CC	1946785029
SNP_P4_37535_4043677	NC_021163.1	Ca_kabuli_chr04	4043677	AA	TT	1946785031
SNP_P4_37536_4043693	NC_021163.1	Ca_kabuli_chr04	4043693	AA	GG	1946785033
SNP_P4_37537_4043822	NC_021163.1	Ca_kabuli_chr04	4043822	TT	AA	1946785034
SNP_P4_37538_4044032	NC_021163.1	Ca_kabuli_chr04	4044032	CC	TT	1946785035
SNP_P4_37539_4045125	NC_021163.1	Ca_kabuli_chr04	4045125	TT	CC	1946785036
SNP_P4_37541_4045377	NC_021163.1	Ca_kabuli_chr04	4045377	GG	AA	1946785037
SNP_P4_37542_4045385	NC_021163.1	Ca_kabuli_chr04	4045385	AA	TT	1946785038
SNP_P4_37543_4045668	NC_021163.1	Ca_kabuli_chr04	4045668	AA	GG	1946785041
SNP_P4_37544_4047974	NC_021163.1	Ca_kabuli_chr04	4047974	CC	TT	1946785043
SNP_P4_37545_4051250	NC_021163.1	Ca_kabuli_chr04	4051250	AA	GG	1946785045
SNP_P4_37546_4052990	NC_021163.1	Ca_kabuli_chr04	4052990	GG	AA	1946785047
SNP_P4_37547_4053870	NC_021163.1	Ca_kabuli_chr04	4053870	GG	AA	1946785049

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_37549_4054701	NC_021163.1	Ca_kabuli_chr04	4054701	TT	GG	1946785053
SNP_P4_37550_4054704	NC_021163.1	Ca_kabuli_chr04	4054704	CC	GG	1946785055
SNP_P4_37551_4054726	NC_021163.1	Ca_kabuli_chr04	4054726	TT	AA	1946785057
SNP_P4_37552_4055027	NC_021163.1	Ca_kabuli_chr04	4055027	AA	TT	1946785059
SNP_P4_37553_4055202	NC_021163.1	Ca_kabuli_chr04	4055202	GG	AA	1946785061
SNP_P4_37554_4055655	NC_021163.1	Ca_kabuli_chr04	4055655	GG	AA	1946785063
SNP_P4_37555_4056667	NC_021163.1	Ca_kabuli_chr04	4056667	AA	GG	1946785065
SNP_P4_37557_4066749	NC_021163.1	Ca_kabuli_chr04	4066749	TT	CC	1946785067
SNP_P4_37558_4067654	NC_021163.1	Ca_kabuli_chr04	4067654	GG	CC	1946785069
SNP_P4_37559_4067696	NC_021163.1	Ca_kabuli_chr04	4067696	TT	AA	1946785071
SNP_P4_37560_4068234	NC_021163.1	Ca_kabuli_chr04	4068234	AA	GG	1946785073
SNP_P4_37563_4068885	NC_021163.1	Ca_kabuli_chr04	4068885	AA	GG	1946785075
SNP_P4_37564_4069206	NC_021163.1	Ca_kabuli_chr04	4069206	GG	AA	1946785077
SNP_P4_37565_4072733	NC_021163.1	Ca_kabuli_chr04	4072733	TT	CC	1946785079
SNP_P4_37567_4078583	NC_021163.1	Ca_kabuli_chr04	4078583	TT	AA	1946785082
SNP_P4_37568_4078588	NC_021163.1	Ca_kabuli_chr04	4078588	GG	TT	1946785084
SNP_P4_37569_4079069	NC_021163.1	Ca_kabuli_chr04	4079069	AA	TT	1946785086
SNP_P4_37570_4080703	NC_021163.1	Ca_kabuli_chr04	4080703	AA	GG	1946785088
SNP_P4_37571_4081236	NC_021163.1	Ca_kabuli_chr04	4081236	CC	GG	1946785090
SNP_P4_37572_4081324	NC_021163.1	Ca_kabuli_chr04	4081324	GG	TT	1946785092
SNP_P4_37573_4081415	NC_021163.1	Ca_kabuli_chr04	4081415	GG	AA	1946785095
SNP_P4_37574_4081724	NC_021163.1	Ca_kabuli_chr04	4081724	AA	GG	1946785097
SNP_P4_37575_4081749	NC_021163.1	Ca_kabuli_chr04	4081749	TT	AA	1946785099
SNP_P4_37576_4081773	NC_021163.1	Ca_kabuli_chr04	4081773	CC	AA	1946785101
SNP_P4_37577_4081801	NC_021163.1	Ca_kabuli_chr04	4081801	TT	CC	1946785103
SNP_P4_37578_4081834	NC_021163.1	Ca_kabuli_chr04	4081834	CC	TT	1946785105
SNP_P4_37579_4081835	NC_021163.1	Ca_kabuli_chr04	4081835	AA	GG	1946785107
SNP_P4_37580_4082310	NC_021163.1	Ca_kabuli_chr04	4082310	CC	TT	1946785109
SNP_P4_37581_4082386	NC_021163.1	Ca_kabuli_chr04	4082386	TT	CC	1946785111
SNP_P4_37582_4082402	NC_021163.1	Ca_kabuli_chr04	4082402	CC	TT	1946785113
SNP_P4_37583_4084345	NC_021163.1	Ca_kabuli_chr04	4084345	CC	TT	1946785115
SNP_P4_37585_4084950	NC_021163.1	Ca_kabuli_chr04	4084950	AA	GG	1946785117
SNP_P4_37586_4085002	NC_021163.1	Ca_kabuli_chr04	4085002	CC	GG	1946785119
SNP_P4_37587_4085234	NC_021163.1	Ca_kabuli_chr04	4085234	CC	TT	1946785121
SNP_P4_37588_4085297	NC_021163.1	Ca_kabuli_chr04	4085297	CC	TT	1946785123
SNP_P4_37589_4085362	NC_021163.1	Ca_kabuli_chr04	4085362	TT	CC	1946785125
SNP_P4_37590_4085444	NC_021163.1	Ca_kabuli_chr04	4085444	AA	GG	1946785127
SNP_P4_37591_4089138	NC_021163.1	Ca_kabuli_chr04	4089138	CC	GG	1946785129
SNP_P4_37592_4089367	NC_021163.1	Ca_kabuli_chr04	4089367	CC	AA	1946785131
SNP_P4_37594_4089979	NC_021163.1	Ca_kabuli_chr04	4089979	AA	GG	1946785133
SNP_P4_37595_4090126	NC_021163.1	Ca_kabuli_chr04	4090126	GG	CC	1946785135

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_37597_4090198	NC_021163.1	Ca_kabuli_chr04	4090198	TT	GG	1946785139
SNP_P4_37598_4090202	NC_021163.1	Ca_kabuli_chr04	4090202	GG	CC	1946785141
SNP_P4_37599_4090209	NC_021163.1	Ca_kabuli_chr04	4090209	AA	GG	1946785143
SNP_P4_37600_4090235	NC_021163.1	Ca_kabuli_chr04	4090235	TT	AA	1946785146
SNP_P4_37601_4090248	NC_021163.1	Ca_kabuli_chr04	4090248	GG	AA	1946785148
SNP_P4_37602_4090269	NC_021163.1	Ca_kabuli_chr04	4090269	GG	AA	1946785150
SNP_P4_37603_4090290	NC_021163.1	Ca_kabuli_chr04	4090290	AA	GG	1946785152
SNP_P4_37604_4090780	NC_021163.1	Ca_kabuli_chr04	4090780	TT	CC	1946785154
SNP_P4_37605_4090810	NC_021163.1	Ca_kabuli_chr04	4090810	TT	GG	1946785156
SNP_P4_37606_4090828	NC_021163.1	Ca_kabuli_chr04	4090828	TT	CC	1946785158
SNP_P4_37607_4090837	NC_021163.1	Ca_kabuli_chr04	4090837	AA	CC	1946785160
SNP_P4_37608_4092228	NC_021163.1	Ca_kabuli_chr04	4092228	GG	AA	1946785162
SNP_P4_37609_4092233	NC_021163.1	Ca_kabuli_chr04	4092233	AA	TT	1946785164
SNP_P4_37610_4092236	NC_021163.1	Ca_kabuli_chr04	4092236	AA	CC	1946785166
SNP_P4_37611_4092250	NC_021163.1	Ca_kabuli_chr04	4092250	CC	TT	1946785168
SNP_P4_37612_4092252	NC_021163.1	Ca_kabuli_chr04	4092252	CC	TT	1946785170
SNP_P4_37613_4092489	NC_021163.1	Ca_kabuli_chr04	4092489	TT	GG	1946785172
SNP_P4_37614_4092493	NC_021163.1	Ca_kabuli_chr04	4092493	TT	GG	1946785174
SNP_P4_37615_4092535	NC_021163.1	Ca_kabuli_chr04	4092535	GG	CC	1946785176
SNP_P4_37616_4092562	NC_021163.1	Ca_kabuli_chr04	4092562	AA	CC	1946785178
SNP_P4_37617_4092762	NC_021163.1	Ca_kabuli_chr04	4092762	GG	TT	1946785180
SNP_P4_37618_4092776	NC_021163.1	Ca_kabuli_chr04	4092776	AA	GG	1946785182
SNP_P4_37619_4092786	NC_021163.1	Ca_kabuli_chr04	4092786	TT	AA	1946785184
SNP_P4_37620_4093779	NC_021163.1	Ca_kabuli_chr04	4093779	TT	CC	1946785186
SNP_P4_37621_4096956	NC_021163.1	Ca_kabuli_chr04	4096956	AA	CC	1946785188
SNP_P4_37622_4097295	NC_021163.1	Ca_kabuli_chr04	4097295	CC	TT	1946785190
SNP_P4_37623_4097472	NC_021163.1	Ca_kabuli_chr04	4097472	CC	TT	1946785192
SNP_P4_37624_4097581	NC_021163.1	Ca_kabuli_chr04	4097581	TT	CC	1946785194
SNP_P4_37625_4097935	NC_021163.1	Ca_kabuli_chr04	4097935	CC	TT	1946785197
SNP_P4_37627_4098404	NC_021163.1	Ca_kabuli_chr04	4098404	CC	TT	1946785199
SNP_P4_37628_4100885	NC_021163.1	Ca_kabuli_chr04	4100885	AA	CC	1946785201
SNP_P4_37629_4101244	NC_021163.1	Ca_kabuli_chr04	4101244	CC	TT	1946785203
SNP_P4_37630_4101408	NC_021163.1	Ca_kabuli_chr04	4101408	CC	AA	1946785205
SNP_P4_37631_4101413	NC_021163.1	Ca_kabuli_chr04	4101413	GG	TT	1946785207
SNP_P4_37632_4101415	NC_021163.1	Ca_kabuli_chr04	4101415	AA	TT	1946785209
SNP_P4_37633_4101416	NC_021163.1	Ca_kabuli_chr04	4101416	TT	AA	1946785211
SNP_P4_37635_4107735	NC_021163.1	Ca_kabuli_chr04	4107735	GG	AA	1946785213
SNP_P4_37636_4109224	NC_021163.1	Ca_kabuli_chr04	4109224	TT	GG	1946785215
SNP_P4_37637_4109445	NC_021163.1	Ca_kabuli_chr04	4109445	TT	AA	1946785217
SNP_P4_37638_4110576	NC_021163.1	Ca_kabuli_chr04	4110576	GG	AA	1946785219
SNP_P4_37639_4111246	NC_021163.1	Ca_kabuli_chr04	4111246	TT	CC	1946785221

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_37641_4113011	NC_021163.1	Ca_kabuli_chr04	4113011	CC	GG	1946785225
SNP_P4_37643_4116031	NC_021163.1	Ca_kabuli_chr04	4116031	AA	TT	1946785227
SNP_P4_37644_4116806	NC_021163.1	Ca_kabuli_chr04	4116806	GG	TT	1946785229
SNP_P4_37645_4116845	NC_021163.1	Ca_kabuli_chr04	4116845	AA	CC	1946785231
SNP_P4_37646_4116851	NC_021163.1	Ca_kabuli_chr04	4116851	GG	CC	1946785233
SNP_P4_37647_4117557	NC_021163.1	Ca_kabuli_chr04	4117557	TT	CC	1946785235
SNP_P4_37648_4117574	NC_021163.1	Ca_kabuli_chr04	4117574	AA	CC	1946785237
SNP_P4_37649_4117740	NC_021163.1	Ca_kabuli_chr04	4117740	GG	TT	1946785239
SNP_P4_37651_4118497	NC_021163.1	Ca_kabuli_chr04	4118497	GG	CC	1946785241
SNP_P4_37652_4121039	NC_021163.1	Ca_kabuli_chr04	4121039	GG	AA	1946785243
SNP_P4_37653_4121479	NC_021163.1	Ca_kabuli_chr04	4121479	AA	GG	1946785245
SNP_P4_37654_4121482	NC_021163.1	Ca_kabuli_chr04	4121482	GG	TT	1946785247
SNP_P4_37655_4121610	NC_021163.1	Ca_kabuli_chr04	4121610	TT	AA	1946785249
SNP_P4_37656_4121921	NC_021163.1	Ca_kabuli_chr04	4121921	AA	GG	1946785251
SNP_P4_37657_4121932	NC_021163.1	Ca_kabuli_chr04	4121932	TT	CC	1946785253
SNP_P4_37658_4121956	NC_021163.1	Ca_kabuli_chr04	4121956	GG	AA	1946785255
SNP_P4_37659_4122032	NC_021163.1	Ca_kabuli_chr04	4122032	GG	TT	1946785257
SNP_P4_37660_4122282	NC_021163.1	Ca_kabuli_chr04	4122282	GG	CC	1946785259
SNP_P4_37661_4122514	NC_021163.1	Ca_kabuli_chr04	4122514	AA	GG	1946785260
SNP_P4_37662_4122721	NC_021163.1	Ca_kabuli_chr04	4122721	AA	TT	1946785263
SNP_P4_37663_4122734	NC_021163.1	Ca_kabuli_chr04	4122734	GG	AA	1946785265
SNP_P4_37664_4122833	NC_021163.1	Ca_kabuli_chr04	4122833	GG	AA	1946785267
SNP_P4_37665_4122864	NC_021163.1	Ca_kabuli_chr04	4122864	GG	AA	1946785269
SNP_P4_37666_4122888	NC_021163.1	Ca_kabuli_chr04	4122888	TT	CC	1946785271
SNP_P4_37667_4122889	NC_021163.1	Ca_kabuli_chr04	4122889	TT	AA	1946785273
SNP_P4_37668_4122902	NC_021163.1	Ca_kabuli_chr04	4122902	AA	CC	1946785275
SNP_P4_37669_4122903	NC_021163.1	Ca_kabuli_chr04	4122903	CC	TT	1946785277
SNP_P4_37670_4123095	NC_021163.1	Ca_kabuli_chr04	4123095	CC	TT	1946785279
SNP_P4_37671_4123137	NC_021163.1	Ca_kabuli_chr04	4123137	AA	GG	1946785281
SNP_P4_37672_4123152	NC_021163.1	Ca_kabuli_chr04	4123152	AA	CC	1946785283
SNP_P4_37673_4123395	NC_021163.1	Ca_kabuli_chr04	4123395	TT	CC	1946785285
SNP_P4_37674_4123426	NC_021163.1	Ca_kabuli_chr04	4123426	CC	TT	1946785287
SNP_P4_37675_4123429	NC_021163.1	Ca_kabuli_chr04	4123429	TT	CC	1946785289
SNP_P4_37676_4123430	NC_021163.1	Ca_kabuli_chr04	4123430	AA	CC	1946785291
SNP_P4_37677_4123448	NC_021163.1	Ca_kabuli_chr04	4123448	GG	TT	1946785294
SNP_P4_37678_4123490	NC_021163.1	Ca_kabuli_chr04	4123490	GG	AA	1946785296
SNP_P4_37679_4123650	NC_021163.1	Ca_kabuli_chr04	4123650	TT	GG	1946785298
SNP_P4_37680_4123662	NC_021163.1	Ca_kabuli_chr04	4123662	GG	AA	1946785300
SNP_P4_37681_4123884	NC_021163.1	Ca_kabuli_chr04	4123884	TT	CC	1946785302
SNP_P4_37682_4124835	NC_021163.1	Ca_kabuli_chr04	4124835	GG	AA	1946785304
SNP_P4_37683_4124836	NC_021163.1	Ca_kabuli_chr04	4124836	TT	CC	1946785306

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_37685_4124871	NC_021163.1	Ca_kabuli_chr04	4124871	TT	CC	1946785311
SNP_P4_37686_4124885	NC_021163.1	Ca_kabuli_chr04	4124885	TT	CC	1946785313
SNP_P4_37687_4125394	NC_021163.1	Ca_kabuli_chr04	4125394	AA	CC	1946785315
SNP_P4_37688_4125431	NC_021163.1	Ca_kabuli_chr04	4125431	AA	GG	1946785317
SNP_P4_37689_4125468	NC_021163.1	Ca_kabuli_chr04	4125468	AA	GG	1946785319
SNP_P4_37690_4125504	NC_021163.1	Ca_kabuli_chr04	4125504	CC	TT	1946785321
SNP_P4_37691_4125749	NC_021163.1	Ca_kabuli_chr04	4125749	AA	GG	1946785323
SNP_P4_37692_4125766	NC_021163.1	Ca_kabuli_chr04	4125766	GG	AA	1946785325
SNP_P4_37693_4125767	NC_021163.1	Ca_kabuli_chr04	4125767	GG	TT	1946785327
SNP_P4_37694_4125769	NC_021163.1	Ca_kabuli_chr04	4125769	AA	CC	1946785329
SNP_P4_37695_4126073	NC_021163.1	Ca_kabuli_chr04	4126073	CC	AA	1946785331
SNP_P4_37696_4126105	NC_021163.1	Ca_kabuli_chr04	4126105	GG	AA	1946785333
SNP_P4_37697_4126470	NC_021163.1	Ca_kabuli_chr04	4126470	AA	GG	1946785336
SNP_P4_37698_4126506	NC_021163.1	Ca_kabuli_chr04	4126506	GG	AA	1946785338
SNP_P4_37699_4127474	NC_021163.1	Ca_kabuli_chr04	4127474	AA	CC	1946785340
SNP_P4_37701_4127514	NC_021163.1	Ca_kabuli_chr04	4127514	GG	TT	1946785342
SNP_P4_37702_4127537	NC_021163.1	Ca_kabuli_chr04	4127537	AA	GG	1946785344
SNP_P4_37704_4129597	NC_021163.1	Ca_kabuli_chr04	4129597	AA	GG	1946785346
SNP_P4_37705_4129623	NC_021163.1	Ca_kabuli_chr04	4129623	CC	TT	1946785348
SNP_P4_37706_4129628	NC_021163.1	Ca_kabuli_chr04	4129628	GG	CC	1946785350
SNP_P4_37707_4129904	NC_021163.1	Ca_kabuli_chr04	4129904	CC	TT	1946785352
SNP_P4_37709_4130489	NC_021163.1	Ca_kabuli_chr04	4130489	CC	TT	1946785354
SNP_P4_37710_4132253	NC_021163.1	Ca_kabuli_chr04	4132253	TT	AA	1946785356
SNP_P4_37711_4132728	NC_021163.1	Ca_kabuli_chr04	4132728	CC	TT	1946785358
SNP_P4_37712_4132748	NC_021163.1	Ca_kabuli_chr04	4132748	GG	AA	1946785360
SNP_P4_37713_4133014	NC_021163.1	Ca_kabuli_chr04	4133014	TT	CC	1946785362
SNP_P4_37715_4133985	NC_021163.1	Ca_kabuli_chr04	4133985	GG	TT	1946785364
SNP_P4_37716_4134483	NC_021163.1	Ca_kabuli_chr04	4134483	GG	AA	1946785366
SNP_P4_37717_4134746	NC_021163.1	Ca_kabuli_chr04	4134746	TT	CC	1946785368
SNP_P4_37718_4134773	NC_021163.1	Ca_kabuli_chr04	4134773	TT	CC	1946785370
SNP_P4_37719_4136240	NC_021163.1	Ca_kabuli_chr04	4136240	AA	GG	1946785372
SNP_P4_37720_4136260	NC_021163.1	Ca_kabuli_chr04	4136260	GG	AA	1946785375
SNP_P4_37721_4136364	NC_021163.1	Ca_kabuli_chr04	4136364	TT	CC	1946785377
SNP_P4_37722_4136365	NC_021163.1	Ca_kabuli_chr04	4136365	GG	AA	1946785379
SNP_P4_37723_4136995	NC_021163.1	Ca_kabuli_chr04	4136995	GG	AA	1946785381
SNP_P4_37724_4137035	NC_021163.1	Ca_kabuli_chr04	4137035	GG	AA	1946785383
SNP_P4_37725_4137079	NC_021163.1	Ca_kabuli_chr04	4137079	AA	GG	1946785385
SNP_P4_37726_4137094	NC_021163.1	Ca_kabuli_chr04	4137094	AA	GG	1946785387
SNP_P4_37727_4137401	NC_021163.1	Ca_kabuli_chr04	4137401	GG	AA	1946785389
SNP_P4_37728_4137415	NC_021163.1	Ca_kabuli_chr04	4137415	AA	GG	1946785391
SNP_P4_37729_4138382	NC_021163.1	Ca_kabuli_chr04	4138382	CC	TT	1946785393

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_37731_4139527	NC_021163.1	Ca_kabuli_chr04	4139527	GG	TT	1946785397
SNP_P4_37732_4139528	NC_021163.1	Ca_kabuli_chr04	4139528	AA	GG	1946785399
SNP_P4_37734_4140161	NC_021163.1	Ca_kabuli_chr04	4140161	TT	CC	1946785401
SNP_P4_37735_4140366	NC_021163.1	Ca_kabuli_chr04	4140366	AA	TT	1946785403
SNP_P4_37736_4140406	NC_021163.1	Ca_kabuli_chr04	4140406	GG	TT	1946785405
SNP_P4_37737_4140886	NC_021163.1	Ca_kabuli_chr04	4140886	GG	AA	1946785407
SNP_P4_37738_4141131	NC_021163.1	Ca_kabuli_chr04	4141131	GG	TT	1946785409
SNP_P4_37740_4145936	NC_021163.1	Ca_kabuli_chr04	4145936	GG	AA	1946785412
SNP_P4_37741_4147763	NC_021163.1	Ca_kabuli_chr04	4147763	CC	TT	1946785415
SNP_P4_37742_4148483	NC_021163.1	Ca_kabuli_chr04	4148483	GG	AA	1946785417
SNP_P4_37744_4150539	NC_021163.1	Ca_kabuli_chr04	4150539	TT	CC	1946785419
SNP_P4_37745_4150570	NC_021163.1	Ca_kabuli_chr04	4150570	TT	CC	1946785421
SNP_P4_37746_4154295	NC_021163.1	Ca_kabuli_chr04	4154295	GG	TT	1946785423
SNP_P4_37747_4155589	NC_021163.1	Ca_kabuli_chr04	4155589	CC	AA	1946785425
SNP_P4_37748_4155623	NC_021163.1	Ca_kabuli_chr04	4155623	TT	CC	1946785427
SNP_P4_37749_4156038	NC_021163.1	Ca_kabuli_chr04	4156038	CC	AA	1946785429
SNP_P4_37750_4156740	NC_021163.1	Ca_kabuli_chr04	4156740	CC	TT	1946785431
SNP_P4_37751_4156777	NC_021163.1	Ca_kabuli_chr04	4156777	GG	AA	1946785434
SNP_P4_37752_4157093	NC_021163.1	Ca_kabuli_chr04	4157093	TT	CC	1946785436
SNP_P4_37753_4157096	NC_021163.1	Ca_kabuli_chr04	4157096	AA	TT	1946785438
SNP_P4_37754_4157368	NC_021163.1	Ca_kabuli_chr04	4157368	AA	GG	1946785440
SNP_P4_37755_4157475	NC_021163.1	Ca_kabuli_chr04	4157475	TT	CC	1946785442
SNP_P4_37757_4159454	NC_021163.1	Ca_kabuli_chr04	4159454	CC	AA	1946785444
SNP_P4_37758_4161999	NC_021163.1	Ca_kabuli_chr04	4161999	TT	CC	1946785446
SNP_P4_37761_4162638	NC_021163.1	Ca_kabuli_chr04	4162638	AA	TT	1946785448
SNP_P4_37763_4163147	NC_021163.1	Ca_kabuli_chr04	4163147	AA	TT	1946785450
SNP_P4_37766_4166351	NC_021163.1	Ca_kabuli_chr04	4166351	GG	TT	1946785452
SNP_P4_37767_4167223	NC_021163.1	Ca_kabuli_chr04	4167223	GG	AA	1946785454
SNP_P4_37768_4167571	NC_021163.1	Ca_kabuli_chr04	4167571	AA	GG	1946785456
SNP_P4_37769_4167581	NC_021163.1	Ca_kabuli_chr04	4167581	AA	CC	1946785458
SNP_P4_37770_4167704	NC_021163.1	Ca_kabuli_chr04	4167704	CC	AA	1946785460
SNP_P4_37771_4167971	NC_021163.1	Ca_kabuli_chr04	4167971	TT	AA	1946785462
SNP_P4_37772_4167976	NC_021163.1	Ca_kabuli_chr04	4167976	AA	TT	1946785464
SNP_P4_37773_4167979	NC_021163.1	Ca_kabuli_chr04	4167979	TT	CC	1946785467
SNP_P4_37774_4169290	NC_021163.1	Ca_kabuli_chr04	4169290	AA	TT	1946785469
SNP_P4_37775_4169378	NC_021163.1	Ca_kabuli_chr04	4169378	CC	TT	1946785471
SNP_P4_37776_4169390	NC_021163.1	Ca_kabuli_chr04	4169390	TT	AA	1946785473
SNP_P4_37777_4169600	NC_021163.1	Ca_kabuli_chr04	4169600	CC	AA	1946785475
SNP_P4_37778_4169603	NC_021163.1	Ca_kabuli_chr04	4169603	CC	GG	1946785478
SNP_P4_37779_4169617	NC_021163.1	Ca_kabuli_chr04	4169617	TT	CC	1946785480
SNP_P4_37780_4169625	NC_021163.1	Ca_kabuli_chr04	4169625	AA	CC	1946785482

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_37783_4169688	NC_021163.1	Ca_kabuli_chr04	4169688	GG	AA	1946785489
SNP_P4_37784_4169689	NC_021163.1	Ca_kabuli_chr04	4169689	GG	AA	1946785491
SNP_P4_37785_4169726	NC_021163.1	Ca_kabuli_chr04	4169726	TT	CC	1946785493
SNP_P4_37786_4169773	NC_021163.1	Ca_kabuli_chr04	4169773	AA	TT	1946785495
SNP_P4_37787_4170142	NC_021163.1	Ca_kabuli_chr04	4170142	TT	AA	1946785497
SNP_P4_37788_4170962	NC_021163.1	Ca_kabuli_chr04	4170962	TT	CC	1946785499
SNP_P4_37789_4170970	NC_021163.1	Ca_kabuli_chr04	4170970	TT	CC	1946785501
SNP_P4_37790_4170972	NC_021163.1	Ca_kabuli_chr04	4170972	TT	CC	1946785503
SNP_P4_37791_4170978	NC_021163.1	Ca_kabuli_chr04	4170978	AA	CC	1946785505
SNP_P4_37792_4171025	NC_021163.1	Ca_kabuli_chr04	4171025	AA	TT	1946785507
SNP_P4_37793_4172108	NC_021163.1	Ca_kabuli_chr04	4172108	CC	TT	1946785509
SNP_P4_37794_4173906	NC_021163.1	Ca_kabuli_chr04	4173906	CC	AA	1946785511
SNP_P4_37796_4173941	NC_021163.1	Ca_kabuli_chr04	4173941	GG	AA	1946785513
SNP_P4_37797_4174115	NC_021163.1	Ca_kabuli_chr04	4174115	AA	GG	1946785515
SNP_P4_37798_4174204	NC_021163.1	Ca_kabuli_chr04	4174204	GG	CC	1946785517
SNP_P4_37799_4174408	NC_021163.1	Ca_kabuli_chr04	4174408	CC	TT	1946785519
SNP_P4_37800_4174413	NC_021163.1	Ca_kabuli_chr04	4174413	AA	TT	1946785521
SNP_P4_37801_4175860	NC_021163.1	Ca_kabuli_chr04	4175860	AA	GG	1946785523
SNP_P4_37802_4175922	NC_021163.1	Ca_kabuli_chr04	4175922	CC	TT	1946785525
SNP_P4_37803_4176835	NC_021163.1	Ca_kabuli_chr04	4176835	CC	AA	1946785528
SNP_P4_37804_4177618	NC_021163.1	Ca_kabuli_chr04	4177618	TT	CC	1946785530
SNP_P4_37805_4177846	NC_021163.1	Ca_kabuli_chr04	4177846	TT	CC	1946785532
SNP_P4_37806_4178447	NC_021163.1	Ca_kabuli_chr04	4178447	TT	CC	1946785534
SNP_P4_37807_4178902	NC_021163.1	Ca_kabuli_chr04	4178902	CC	TT	1946785536
SNP_P4_37808_4179193	NC_021163.1	Ca_kabuli_chr04	4179193	GG	AA	1946785538
SNP_P4_37809_4179627	NC_021163.1	Ca_kabuli_chr04	4179627	CC	TT	1946785540
SNP_P4_37810_4179857	NC_021163.1	Ca_kabuli_chr04	4179857	GG	TT	1946785542
SNP_P4_37811_4179916	NC_021163.1	Ca_kabuli_chr04	4179916	AA	GG	1946785544
SNP_P4_37812_4179992	NC_021163.1	Ca_kabuli_chr04	4179992	AA	CC	1946785546
SNP_P4_37813_4180632	NC_021163.1	Ca_kabuli_chr04	4180632	AA	CC	1946785548
SNP_P4_37815_4180929	NC_021163.1	Ca_kabuli_chr04	4180929	TT	CC	1946785550
SNP_P4_37816_4180957	NC_021163.1	Ca_kabuli_chr04	4180957	AA	TT	1946785552
SNP_P4_37817_4180958	NC_021163.1	Ca_kabuli_chr04	4180958	GG	TT	1946785554
SNP_P4_37818_4180959	NC_021163.1	Ca_kabuli_chr04	4180959	TT	CC	1946785556
SNP_P4_37819_4181764	NC_021163.1	Ca_kabuli_chr04	4181764	AA	GG	1946785558
SNP_P4_37821_4182182	NC_021163.1	Ca_kabuli_chr04	4182182	AA	CC	1946785561
SNP_P4_37822_4182200	NC_021163.1	Ca_kabuli_chr04	4182200	TT	CC	1946785564
SNP_P4_37823_4182714	NC_021163.1	Ca_kabuli_chr04	4182714	AA	GG	1946785566
SNP_P4_37824_4182727	NC_021163.1	Ca_kabuli_chr04	4182727	CC	TT	1946785568
SNP_P4_37825_4182746	NC_021163.1	Ca_kabuli_chr04	4182746	CC	TT	1946785570

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_37826_4182761	NC_021163.1	Ca_kabuli_chr04	4182761	AA	TT	1946785572
SNP_P4_37827_4182824	NC_021163.1	Ca_kabuli_chr04	4182824	TT	CC	1946785575
SNP_P4_37829_4186573	NC_021163.1	Ca_kabuli_chr04	4186573	AA	GG	1946785577
SNP_P4_37830_4186959	NC_021163.1	Ca_kabuli_chr04	4186959	GG	AA	1946785579
SNP_P4_37831_4186963	NC_021163.1	Ca_kabuli_chr04	4186963	AA	GG	1946785581
SNP_P4_37832_4187462	NC_021163.1	Ca_kabuli_chr04	4187462	CC	AA	1946785583
SNP_P4_37833_4187490	NC_021163.1	Ca_kabuli_chr04	4187490	GG	AA	1946785586
SNP_P4_37834_4187492	NC_021163.1	Ca_kabuli_chr04	4187492	GG	CC	1946785588
SNP_P4_37835_4187838	NC_021163.1	Ca_kabuli_chr04	4187838	TT	GG	1946785590
SNP_P4_37836_4188347	NC_021163.1	Ca_kabuli_chr04	4188347	GG	AA	1946785592
SNP_P4_37838_4188637	NC_021163.1	Ca_kabuli_chr04	4188637	CC	TT	1946785594
SNP_P4_37839_4188729	NC_021163.1	Ca_kabuli_chr04	4188729	CC	AA	1946785596
SNP_P4_37840_4189623	NC_021163.1	Ca_kabuli_chr04	4189623	TT	CC	1946785598
SNP_P4_37841_4189628	NC_021163.1	Ca_kabuli_chr04	4189628	GG	TT	1946785600
SNP_P4_37842_4189797	NC_021163.1	Ca_kabuli_chr04	4189797	CC	AA	1946785603
SNP_P4_37843_4189798	NC_021163.1	Ca_kabuli_chr04	4189798	AA	CC	1946785605
SNP_P4_37844_4189842	NC_021163.1	Ca_kabuli_chr04	4189842	AA	TT	1946785608
SNP_P4_37845_4189843	NC_021163.1	Ca_kabuli_chr04	4189843	AA	TT	1946785610
SNP_P4_37846_4189844	NC_021163.1	Ca_kabuli_chr04	4189844	AA	TT	1946785612
SNP_P4_37847_4189847	NC_021163.1	Ca_kabuli_chr04	4189847	AA	TT	1946785614
SNP_P4_37848_4190878	NC_021163.1	Ca_kabuli_chr04	4190878	GG	AA	1946785616
SNP_P4_37849_4195558	NC_021163.1	Ca_kabuli_chr04	4195558	GG	AA	1946785618
SNP_P4_37850_4196237	NC_021163.1	Ca_kabuli_chr04	4196237	CC	TT	1946785620
SNP_P4_37853_4197146	NC_021163.1	Ca_kabuli_chr04	4197146	AA	TT	1946785623
SNP_P4_37854_4199531	NC_021163.1	Ca_kabuli_chr04	4199531	AA	GG	1946785625
SNP_P4_37855_4211785	NC_021163.1	Ca_kabuli_chr04	4211785	TT	GG	1946785627
SNP_P4_37856_4211855	NC_021163.1	Ca_kabuli_chr04	4211855	AA	GG	1946785629
SNP_P4_37857_4213695	NC_021163.1	Ca_kabuli_chr04	4213695	CC	TT	1946785632
SNP_P4_37858_4241908	NC_021163.1	Ca_kabuli_chr04	4241908	GG	AA	1946785634
SNP_P4_37863_4268120	NC_021163.1	Ca_kabuli_chr04	4268120	TT	AA	1946785636
SNP_P4_37864_4268448	NC_021163.1	Ca_kabuli_chr04	4268448	GG	AA	1946785638
SNP_P4_37867_4272227	NC_021163.1	Ca_kabuli_chr04	4272227	AA	GG	1946785640
SNP_P4_37868_4272471	NC_021163.1	Ca_kabuli_chr04	4272471	CC	TT	1946785643
SNP_P4_37870_4283781	NC_021163.1	Ca_kabuli_chr04	4283781	AA	GG	1946785645
SNP_P4_37872_4312360	NC_021163.1	Ca_kabuli_chr04	4312360	TT	GG	1946785647
SNP_P4_37873_4320567	NC_021163.1	Ca_kabuli_chr04	4320567	TT	AA	1946785649
SNP_P4_37876_4354850	NC_021163.1	Ca_kabuli_chr04	4354850	GG	TT	1946785651
SNP_P4_37877_4363418	NC_021163.1	Ca_kabuli_chr04	4363418	AA	TT	1946785653
SNP_P4_37878_4370921	NC_021163.1	Ca_kabuli_chr04	4370921	TT	CC	1946785656
SNP_P4_37879_4374386	NC_021163.1	Ca_kabuli_chr04	4374386	AA	TT	1946785658
SNP_P4_37882_4380203	NC_021163.1	Ca_kabuli_chr04	4380203	CC	TT	1946785660
SNP_P4_37883_4383089	NC_021163.1	Ca_kabuli_chr04	4383089	GG	TT	1946785662

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_37885_4383288	NC_021163.1	Ca_kabuli_chr04	4383288	AA	GG	1946785666
SNP_P4_37886_4429522	NC_021163.1	Ca_kabuli_chr04	4429522	TT	CC	1946785669
SNP_P4_37887_4432420	NC_021163.1	Ca_kabuli_chr04	4432420	AA	TT	1946785671
SNP_P4_37888_4432421	NC_021163.1	Ca_kabuli_chr04	4432421	AA	GG	1946785673
SNP_P4_37889_4432617	NC_021163.1	Ca_kabuli_chr04	4432617	GG	CC	1946785675
SNP_P4_37890_4437498	NC_021163.1	Ca_kabuli_chr04	4437498	GG	AA	1946785677
SNP_P4_37891_4443498	NC_021163.1	Ca_kabuli_chr04	4443498	TT	AA	1946785680
SNP_P4_37892_4448073	NC_021163.1	Ca_kabuli_chr04	4448073	AA	TT	1946785682
SNP_P4_37893_4452018	NC_021163.1	Ca_kabuli_chr04	4452018	TT	AA	1946785684
SNP_P4_37894_4454177	NC_021163.1	Ca_kabuli_chr04	4454177	TT	CC	1946785686
SNP_P4_37895_4454305	NC_021163.1	Ca_kabuli_chr04	4454305	CC	AA	1946785690
SNP_P4_37898_4454635	NC_021163.1	Ca_kabuli_chr04	4454635	TT	CC	1946785692
SNP_P4_37899_4454646	NC_021163.1	Ca_kabuli_chr04	4454646	CC	AA	1946785694
SNP_P4_37900_4455085	NC_021163.1	Ca_kabuli_chr04	4455085	CC	TT	1946785696
SNP_P4_37901_4457887	NC_021163.1	Ca_kabuli_chr04	4457887	CC	TT	1946785698
SNP_P4_37904_4460265	NC_021163.1	Ca_kabuli_chr04	4460265	CC	TT	1946785700
SNP_P4_37905_4460853	NC_021163.1	Ca_kabuli_chr04	4460853	AA	GG	1946785702
SNP_P4_37906_4463840	NC_021163.1	Ca_kabuli_chr04	4463840	GG	AA	1946785704
SNP_P4_37907_4463893	NC_021163.1	Ca_kabuli_chr04	4463893	TT	AA	1946785706
SNP_P4_37908_4463894	NC_021163.1	Ca_kabuli_chr04	4463894	TT	AA	1946785708
SNP_P4_37909_4464436	NC_021163.1	Ca_kabuli_chr04	4464436	GG	AA	1946785710
SNP_P4_37910_4464443	NC_021163.1	Ca_kabuli_chr04	4464443	CC	TT	1946785712
SNP_P4_37911_4464530	NC_021163.1	Ca_kabuli_chr04	4464530	AA	GG	1946785714
SNP_P4_37912_4464558	NC_021163.1	Ca_kabuli_chr04	4464558	CC	TT	1946785716
SNP_P4_37913_4464820	NC_021163.1	Ca_kabuli_chr04	4464820	GG	TT	1946785718
SNP_P4_37914_4464830	NC_021163.1	Ca_kabuli_chr04	4464830	AA	TT	1946785720
SNP_P4_37915_4465789	NC_021163.1	Ca_kabuli_chr04	4465789	CC	TT	1946785722
SNP_P4_37916_4465796	NC_021163.1	Ca_kabuli_chr04	4465796	TT	CC	1946785724
SNP_P4_37918_4465852	NC_021163.1	Ca_kabuli_chr04	4465852	CC	TT	1946785727
SNP_P4_37919_4465853	NC_021163.1	Ca_kabuli_chr04	4465853	TT	GG	1946785729
SNP_P4_37920_4467319	NC_021163.1	Ca_kabuli_chr04	4467319	CC	TT	1946785731
SNP_P4_37921_4467337	NC_021163.1	Ca_kabuli_chr04	4467337	TT	CC	1946785733
SNP_P4_37922_4468394	NC_021163.1	Ca_kabuli_chr04	4468394	CC	TT	1946785735
SNP_P4_37925_4469874	NC_021163.1	Ca_kabuli_chr04	4469874	AA	TT	1946785737
SNP_P4_37926_4469893	NC_021163.1	Ca_kabuli_chr04	4469893	GG	AA	1946785739
SNP_P4_37927_4470169	NC_021163.1	Ca_kabuli_chr04	4470169	AA	GG	1946785741
SNP_P4_37928_4471051	NC_021163.1	Ca_kabuli_chr04	4471051	CC	AA	1946785743
SNP_P4_37929_4471151	NC_021163.1	Ca_kabuli_chr04	4471151	TT	AA	1946785745
SNP_P4_37930_4471477	NC_021163.1	Ca_kabuli_chr04	4471477	TT	CC	1946785746
SNP_P4_37932_4471782	NC_021163.1	Ca_kabuli_chr04	4471782	TT	AA	1946785748
SNP_P4_37933_4471842	NC_021163.1	Ca_kabuli_chr04	4471842	GG	AA	1946785750

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_37935_4473742	NC_021163.1	Ca_kabuli_chr04	4473742	AA	GG	1946785754
SNP_P4_37936_4473990	NC_021163.1	Ca_kabuli_chr04	4473990	CC	TT	1946785756
SNP_P4_37937_4474155	NC_021163.1	Ca_kabuli_chr04	4474155	TT	GG	1946785758
SNP_P4_37938_4474160	NC_021163.1	Ca_kabuli_chr04	4474160	GG	TT	1946785760
SNP_P4_37939_4474860	NC_021163.1	Ca_kabuli_chr04	4474860	TT	AA	1946785762
SNP_P4_37940_4475822	NC_021163.1	Ca_kabuli_chr04	4475822	TT	GG	1946785764
SNP_P4_37941_4476145	NC_021163.1	Ca_kabuli_chr04	4476145	TT	CC	1946785766
SNP_P4_37942_4476417	NC_021163.1	Ca_kabuli_chr04	4476417	AA	GG	1946785768
SNP_P4_37943_4479621	NC_021163.1	Ca_kabuli_chr04	4479621	AA	GG	1946785770
SNP_P4_37944_4479934	NC_021163.1	Ca_kabuli_chr04	4479934	GG	TT	1946785772
SNP_P4_37945_4480373	NC_021163.1	Ca_kabuli_chr04	4480373	TT	CC	1946785774
SNP_P4_37949_4481235	NC_021163.1	Ca_kabuli_chr04	4481235	AA	TT	1946785776
SNP_P4_37950_4481525	NC_021163.1	Ca_kabuli_chr04	4481525	TT	GG	1946785778
SNP_P4_37951_4481833	NC_021163.1	Ca_kabuli_chr04	4481833	GG	TT	1946785780
SNP_P4_37952_4481836	NC_021163.1	Ca_kabuli_chr04	4481836	AA	GG	1946785782
SNP_P4_37953_4481860	NC_021163.1	Ca_kabuli_chr04	4481860	TT	CC	1946785784
SNP_P4_37955_4481917	NC_021163.1	Ca_kabuli_chr04	4481917	TT	AA	1946785786
SNP_P4_37956_4482457	NC_021163.1	Ca_kabuli_chr04	4482457	GG	AA	1946785788
SNP_P4_37957_4483070	NC_021163.1	Ca_kabuli_chr04	4483070	TT	CC	1946785790
SNP_P4_37958_4483071	NC_021163.1	Ca_kabuli_chr04	4483071	GG	TT	1946785792
SNP_P4_37959_4483075	NC_021163.1	Ca_kabuli_chr04	4483075	AA	TT	1946785794
SNP_P4_37960_4483076	NC_021163.1	Ca_kabuli_chr04	4483076	AA	GG	1946785796
SNP_P4_37961_4484557	NC_021163.1	Ca_kabuli_chr04	4484557	GG	AA	1946785798
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SNP_P4_37964_4486791	NC_021163.1	Ca_kabuli_chr04	4486791	TT	AA	1946785804
SNP_P4_37968_4487184	NC_021163.1	Ca_kabuli_chr04	4487184	GG	AA	1946785806
SNP_P4_37969_4487218	NC_021163.1	Ca_kabuli_chr04	4487218	GG	AA	1946785808
SNP_P4_37970_4487228	NC_021163.1	Ca_kabuli_chr04	4487228	CC	AA	1946785810
SNP_P4_37971_4487348	NC_021163.1	Ca_kabuli_chr04	4487348	CC	TT	1946785812
SNP_P4_37973_4487474	NC_021163.1	Ca_kabuli_chr04	4487474	TT	AA	1946785814
SNP_P4_37975_4489873	NC_021163.1	Ca_kabuli_chr04	4489873	CC	TT	1946785816
SNP_P4_37976_4491409	NC_021163.1	Ca_kabuli_chr04	4491409	GG	TT	1946785818
SNP_P4_37977_4492819	NC_021163.1	Ca_kabuli_chr04	4492819	TT	CC	1946785820
SNP_P4_37979_4496824	NC_021163.1	Ca_kabuli_chr04	4496824	CC	TT	1946785822
SNP_P4_37981_4498190	NC_021163.1	Ca_kabuli_chr04	4498190	CC	TT	1946785824
SNP_P4_37982_4498199	NC_021163.1	Ca_kabuli_chr04	4498199	GG	AA	1946785826
SNP_P4_37983_4498399	NC_021163.1	Ca_kabuli_chr04	4498399	GG	AA	1946785828
SNP_P4_37984_4498452	NC_021163.1	Ca_kabuli_chr04	4498452	AA	GG	1946785830
SNP_P4_37985_4500360	NC_021163.1	Ca_kabuli_chr04	4500360	CC	AA	1946785832
SNP_P4_37988_4500456	NC_021163.1	Ca_kabuli_chr04	4500456	GG	AA	1946785834

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_37990_4500781	NC_021163.1	Ca_kabuli_chr04	4500781	CC	AA	1946785838
SNP_P4_37991_4500794	NC_021163.1	Ca_kabuli_chr04	4500794	TT	AA	1946785840
SNP_P4_37992_4500966	NC_021163.1	Ca_kabuli_chr04	4500966	AA	GG	1946785842
SNP_P4_37993_4500998	NC_021163.1	Ca_kabuli_chr04	4500998	CC	TT	1946785844
SNP_P4_37994_4501011	NC_021163.1	Ca_kabuli_chr04	4501011	GG	AA	1946785846
SNP_P4_37995_4501013	NC_021163.1	Ca_kabuli_chr04	4501013	TT	CC	1946785848
SNP_P4_37996_4501126	NC_021163.1	Ca_kabuli_chr04	4501126	CC	TT	1946785850
SNP_P4_37997_4501131	NC_021163.1	Ca_kabuli_chr04	4501131	GG	AA	1946785852
SNP_P4_37998_4501182	NC_021163.1	Ca_kabuli_chr04	4501182	AA	GG	1946785854
SNP_P4_37999_4501192	NC_021163.1	Ca_kabuli_chr04	4501192	TT	CC	1946785856
SNP_P4_38000_4501232	NC_021163.1	Ca_kabuli_chr04	4501232	AA	GG	1946785858
SNP_P4_38001_4501370	NC_021163.1	Ca_kabuli_chr04	4501370	GG	TT	1946785860
SNP_P4_38003_4501445	NC_021163.1	Ca_kabuli_chr04	4501445	GG	TT	1946785862
SNP_P4_38005_4501619	NC_021163.1	Ca_kabuli_chr04	4501619	AA	TT	1946785864
SNP_P4_38006_4501629	NC_021163.1	Ca_kabuli_chr04	4501629	CC	TT	1946785866
SNP_P4_38007_4501645	NC_021163.1	Ca_kabuli_chr04	4501645	CC	GG	1946785868
SNP_P4_38008_4501654	NC_021163.1	Ca_kabuli_chr04	4501654	TT	CC	1946785870
SNP_P4_38009_4501801	NC_021163.1	Ca_kabuli_chr04	4501801	CC	TT	1946785872
SNP_P4_38010_4502429	NC_021163.1	Ca_kabuli_chr04	4502429	CC	AA	1946785874
SNP_P4_38011_4502815	NC_021163.1	Ca_kabuli_chr04	4502815	AA	TT	1946785876
SNP_P4_38012_4503891	NC_021163.1	Ca_kabuli_chr04	4503891	TT	CC	1946785878
SNP_P4_38014_4505612	NC_021163.1	Ca_kabuli_chr04	4505612	GG	TT	1946785880
SNP_P4_38015_4505623	NC_021163.1	Ca_kabuli_chr04	4505623	GG	AA	1946785882
SNP_P4_38016_4505919	NC_021163.1	Ca_kabuli_chr04	4505919	TT	AA	1946785884
SNP_P4_38017_4506674	NC_021163.1	Ca_kabuli_chr04	4506674	CC	GG	1946785886
SNP_P4_38018_4506698	NC_021163.1	Ca_kabuli_chr04	4506698	CC	AA	1946785888
SNP_P4_38019_4507251	NC_021163.1	Ca_kabuli_chr04	4507251	GG	AA	1946785890
SNP_P4_38020_4507253	NC_021163.1	Ca_kabuli_chr04	4507253	TT	CC	1946785892
SNP_P4_38022_4507759	NC_021163.1	Ca_kabuli_chr04	4507759	TT	CC	1946785894
SNP_P4_38023_4507940	NC_021163.1	Ca_kabuli_chr04	4507940	CC	TT	1946785896
SNP_P4_38024_4508056	NC_021163.1	Ca_kabuli_chr04	4508056	TT	CC	1946785898
SNP_P4_38025_4508075	NC_021163.1	Ca_kabuli_chr04	4508075	CC	GG	1946785900
SNP_P4_38026_4508094	NC_021163.1	Ca_kabuli_chr04	4508094	CC	TT	1946785902
SNP_P4_38027_4508914	NC_021163.1	Ca_kabuli_chr04	4508914	AA	TT	1946785904
SNP_P4_38029_4509193	NC_021163.1	Ca_kabuli_chr04	4509193	CC	TT	1946785906
SNP_P4_38030_4509561	NC_021163.1	Ca_kabuli_chr04	4509561	AA	GG	1946785908
SNP_P4_38031_4510191	NC_021163.1	Ca_kabuli_chr04	4510191	CC	TT	1946785910
SNP_P4_38032_4510213	NC_021163.1	Ca_kabuli_chr04	4510213	GG	AA	1946785912
SNP_P4_38033_4510214	NC_021163.1	Ca_kabuli_chr04	4510214	CC	TT	1946785914
SNP_P4_38034_4510482	NC_021163.1	Ca_kabuli_chr04	4510482	AA	TT	1946785916
SNP_P4_38035_4510534	NC_021163.1	Ca_kabuli_chr04	4510534	GG	TT	1946785919

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_38037_4513007	NC_021163.1	Ca_kabuli_chr04	4513007	AA	TT	1946785921
SNP_P4_38038_4513266	NC_021163.1	Ca_kabuli_chr04	4513266	AA	GG	1946785923
SNP_P4_38039_4516766	NC_021163.1	Ca_kabuli_chr04	4516766	AA	GG	1946785925
SNP_P4_38040_4516777	NC_021163.1	Ca_kabuli_chr04	4516777	AA	GG	1946785927
SNP_P4_38041_4516781	NC_021163.1	Ca_kabuli_chr04	4516781	AA	GG	1946785929
SNP_P4_38044_4517423	NC_021163.1	Ca_kabuli_chr04	4517423	GG	AA	1946785931
SNP_P4_38045_4517429	NC_021163.1	Ca_kabuli_chr04	4517429	GG	AA	1946785933
SNP_P4_38046_4517458	NC_021163.1	Ca_kabuli_chr04	4517458	TT	CC	1946785935
SNP_P4_38047_4517476	NC_021163.1	Ca_kabuli_chr04	4517476	CC	TT	1946785937
SNP_P4_38049_4520303	NC_021163.1	Ca_kabuli_chr04	4520303	GG	AA	1946785939
SNP_P4_38051_4520616	NC_021163.1	Ca_kabuli_chr04	4520616	TT	CC	1946785941
SNP_P4_38053_4521130	NC_021163.1	Ca_kabuli_chr04	4521130	CC	TT	1946785943
SNP_P4_38054_4521136	NC_021163.1	Ca_kabuli_chr04	4521136	CC	AA	1946785945
SNP_P4_38055_4521139	NC_021163.1	Ca_kabuli_chr04	4521139	GG	AA	1946785947
SNP_P4_38056_4521146	NC_021163.1	Ca_kabuli_chr04	4521146	AA	TT	1946785949
SNP_P4_38057_4521603	NC_021163.1	Ca_kabuli_chr04	4521603	CC	TT	1946785951
SNP_P4_38058_4521884	NC_021163.1	Ca_kabuli_chr04	4521884	TT	GG	1946785953
SNP_P4_38060_4522259	NC_021163.1	Ca_kabuli_chr04	4522259	AA	GG	1946785955
SNP_P4_38061_4522266	NC_021163.1	Ca_kabuli_chr04	4522266	GG	CC	1946785957
SNP_P4_38063_4522404	NC_021163.1	Ca_kabuli_chr04	4522404	GG	CC	1946785959
SNP_P4_38064_4522418	NC_021163.1	Ca_kabuli_chr04	4522418	GG	AA	1946785961
SNP_P4_38065_4522430	NC_021163.1	Ca_kabuli_chr04	4522430	GG	TT	1946785963
SNP_P4_38067_4523176	NC_021163.1	Ca_kabuli_chr04	4523176	CC	GG	1946785966
SNP_P4_38068_4525037	NC_021163.1	Ca_kabuli_chr04	4525037	TT	CC	1946785968
SNP_P4_38069_4525043	NC_021163.1	Ca_kabuli_chr04	4525043	TT	AA	1946785970
SNP_P4_38070_4525969	NC_021163.1	Ca_kabuli_chr04	4525969	TT	GG	1946785972
SNP_P4_38072_4527391	NC_021163.1	Ca_kabuli_chr04	4527391	AA	TT	1946785974
SNP_P4_38074_4527588	NC_021163.1	Ca_kabuli_chr04	4527588	CC	TT	1946785976
SNP_P4_38075_4527592	NC_021163.1	Ca_kabuli_chr04	4527592	TT	GG	1946785978
SNP_P4_38077_4527607	NC_021163.1	Ca_kabuli_chr04	4527607	CC	TT	1946785980
SNP_P4_38080_4533278	NC_021163.1	Ca_kabuli_chr04	4533278	CC	TT	1946785982
SNP_P4_38083_4538198	NC_021163.1	Ca_kabuli_chr04	4538198	AA	CC	1946785984
SNP_P4_38085_4538255	NC_021163.1	Ca_kabuli_chr04	4538255	GG	AA	1946785987
SNP_P4_38086_4538665	NC_021163.1	Ca_kabuli_chr04	4538665	TT	CC	1946785989
SNP_P4_38087_4540658	NC_021163.1	Ca_kabuli_chr04	4540658	CC	AA	1946785991
SNP_P4_38088_4540851	NC_021163.1	Ca_kabuli_chr04	4540851	AA	CC	1946785993
SNP_P4_38089_4540852	NC_021163.1	Ca_kabuli_chr04	4540852	TT	CC	1946785995
SNP_P4_38090_4540906	NC_021163.1	Ca_kabuli_chr04	4540906	AA	CC	1946785997
SNP_P4_38091_4541145	NC_021163.1	Ca_kabuli_chr04	4541145	GG	AA	1946785999
SNP_P4_38092_4541215	NC_021163.1	Ca_kabuli_chr04	4541215	TT	CC	1946786001
SNP_P4_38093_4541229	NC_021163.1	Ca_kabuli_chr04	4541229	AA	GG	1946786003
SNP_P4_38095_4541258	NC_021163.1	Ca_kabuli_chr04	4541258	AA	GG	1946786005

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_38096_4541316	NC_021163.1	Ca_kabuli_chr04	4541316	GG	AA	1946786007
SNP_P4_38097_4541342	NC_021163.1	Ca_kabuli_chr04	4541342	TT	GG	1946786009
SNP_P4_38099_4541525	NC_021163.1	Ca_kabuli_chr04	4541525	AA	GG	1946786011
SNP_P4_38100_4542871	NC_021163.1	Ca_kabuli_chr04	4542871	AA	GG	1946786013
SNP_P4_38101_4543194	NC_021163.1	Ca_kabuli_chr04	4543194	GG	CC	1946786015
SNP_P4_38102_4543886	NC_021163.1	Ca_kabuli_chr04	4543886	CC	TT	1946786017
SNP_P4_38104_4545079	NC_021163.1	Ca_kabuli_chr04	4545079	CC	TT	1946786019
SNP_P4_38105_4545150	NC_021163.1	Ca_kabuli_chr04	4545150	CC	TT	1946786021
SNP_P4_38106_4545160	NC_021163.1	Ca_kabuli_chr04	4545160	GG	CC	1946786023
SNP_P4_38108_4549892	NC_021163.1	Ca_kabuli_chr04	4549892	GG	CC	1946786025
SNP_P4_38109_4549954	NC_021163.1	Ca_kabuli_chr04	4549954	AA	CC	1946786027
SNP_P4_38110_4549958	NC_021163.1	Ca_kabuli_chr04	4549958	CC	TT	1946786029
SNP_P4_38111_4556889	NC_021163.1	Ca_kabuli_chr04	4556889	GG	AA	1946786031
SNP_P4_38112_4557262	NC_021163.1	Ca_kabuli_chr04	4557262	CC	AA	1946786034
SNP_P4_38113_4557474	NC_021163.1	Ca_kabuli_chr04	4557474	AA	TT	1946786036
SNP_P4_38114_4558645	NC_021163.1	Ca_kabuli_chr04	4558645	TT	AA	1946786038
SNP_P4_38115_4560035	NC_021163.1	Ca_kabuli_chr04	4560035	TT	CC	1946786040
SNP_P4_38116_4560397	NC_021163.1	Ca_kabuli_chr04	4560397	TT	CC	1946786042
SNP_P4_38117_4560461	NC_021163.1	Ca_kabuli_chr04	4560461	CC	TT	1946786044
SNP_P4_38118_4560834	NC_021163.1	Ca_kabuli_chr04	4560834	TT	GG	1946786046
SNP_P4_38119_4560851	NC_021163.1	Ca_kabuli_chr04	4560851	GG	AA	1946786048
SNP_P4_38120_4561151	NC_021163.1	Ca_kabuli_chr04	4561151	TT	GG	1946786050
SNP_P4_38122_4563727	NC_021163.1	Ca_kabuli_chr04	4563727	AA	CC	1946786052
SNP_P4_38125_4563977	NC_021163.1	Ca_kabuli_chr04	4563977	CC	TT	1946786054
SNP_P4_38128_4564624	NC_021163.1	Ca_kabuli_chr04	4564624	AA	CC	1946786056
SNP_P4_38129_4564871	NC_021163.1	Ca_kabuli_chr04	4564871	AA	CC	1946786058
SNP_P4_38130_4567813	NC_021163.1	Ca_kabuli_chr04	4567813	GG	AA	1946786060
SNP_P4_38131_4567821	NC_021163.1	Ca_kabuli_chr04	4567821	AA	GG	1946786062
SNP_P4_38134_4568071	NC_021163.1	Ca_kabuli_chr04	4568071	GG	AA	1946786064
SNP_P4_38135_4569753	NC_021163.1	Ca_kabuli_chr04	4569753	TT	CC	1946786065
SNP_P4_38136_4569912	NC_021163.1	Ca_kabuli_chr04	4569912	TT	AA	1946786067
SNP_P4_38138_4572520	NC_021163.1	Ca_kabuli_chr04	4572520	GG	AA	1946786069
SNP_P4_38139_4572915	NC_021163.1	Ca_kabuli_chr04	4572915	TT	AA	1946786071
SNP_P4_38140_4573683	NC_021163.1	Ca_kabuli_chr04	4573683	TT	GG	1946786073
SNP_P4_38141_4574520	NC_021163.1	Ca_kabuli_chr04	4574520	CC	TT	1946786075
SNP_P4_38142_4574947	NC_021163.1	Ca_kabuli_chr04	4574947	CC	GG	1946786077
SNP_P4_38144_4578836	NC_021163.1	Ca_kabuli_chr04	4578836	CC	TT	1946786079
SNP_P4_38145_4579412	NC_021163.1	Ca_kabuli_chr04	4579412	CC	TT	1946786080
SNP_P4_38146_4582378	NC_021163.1	Ca_kabuli_chr04	4582378	CC	GG	1946786082
SNP_P4_38147_4583572	NC_021163.1	Ca_kabuli_chr04	4583572	GG	AA	1946786084
SNP_P4_38148_4583655	NC_021163.1	Ca_kabuli_chr04	4583655	AA	CC	1946786086
SNP_P4_38150_4584991	NC_021163.1	Ca_kabuli_chr04	4584991	CC	TT	1946786088

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_38151_4584993	NC_021163.1	Ca_kabuli_chr04	4584993	TT	CC	1946786090
SNP_P4_38153_4585775	NC_021163.1	Ca_kabuli_chr04	4585775	AA	GG	1946786092
SNP_P4_38154_4585915	NC_021163.1	Ca_kabuli_chr04	4585915	AA	GG	1946786094
SNP_P4_38155_4586320	NC_021163.1	Ca_kabuli_chr04	4586320	GG	TT	1946786097
SNP_P4_38156_4586512	NC_021163.1	Ca_kabuli_chr04	4586512	TT	AA	1946786099
SNP_P4_38157_4586563	NC_021163.1	Ca_kabuli_chr04	4586563	CC	TT	1946786101
SNP_P4_38158_4586661	NC_021163.1	Ca_kabuli_chr04	4586661	AA	GG	1946786103
SNP_P4_38159_4587691	NC_021163.1	Ca_kabuli_chr04	4587691	AA	GG	1946786105
SNP_P4_38160_4587864	NC_021163.1	Ca_kabuli_chr04	4587864	GG	AA	1946786107
SNP_P4_38161_4587875	NC_021163.1	Ca_kabuli_chr04	4587875	AA	GG	1946786109
SNP_P4_38162_4587884	NC_021163.1	Ca_kabuli_chr04	4587884	GG	AA	1946786111
SNP_P4_38163_4587900	NC_021163.1	Ca_kabuli_chr04	4587900	TT	GG	1946786113
SNP_P4_38164_4588105	NC_021163.1	Ca_kabuli_chr04	4588105	AA	TT	1946786115
SNP_P4_38165_4588135	NC_021163.1	Ca_kabuli_chr04	4588135	AA	TT	1946786117
SNP_P4_38166_4588429	NC_021163.1	Ca_kabuli_chr04	4588429	TT	CC	1946786119
SNP_P4_38167_4588721	NC_021163.1	Ca_kabuli_chr04	4588721	GG	AA	1946786122
SNP_P4_38168_4589575	NC_021163.1	Ca_kabuli_chr04	4589575	GG	TT	1946786124
SNP_P4_38169_4589582	NC_021163.1	Ca_kabuli_chr04	4589582	TT	AA	1946786126
SNP_P4_38170_4589829	NC_021163.1	Ca_kabuli_chr04	4589829	CC	TT	1946786129
SNP_P4_38173_4590366	NC_021163.1	Ca_kabuli_chr04	4590366	CC	GG	1946786131
SNP_P4_38174_4591322	NC_021163.1	Ca_kabuli_chr04	4591322	TT	CC	1946786133
SNP_P4_38176_4591357	NC_021163.1	Ca_kabuli_chr04	4591357	GG	AA	1946786135
SNP_P4_38177_4591503	NC_021163.1	Ca_kabuli_chr04	4591503	TT	CC	1946786137
SNP_P4_38178_4591524	NC_021163.1	Ca_kabuli_chr04	4591524	TT	AA	1946786139
SNP_P4_38180_4592726	NC_021163.1	Ca_kabuli_chr04	4592726	AA	GG	1946786141
SNP_P4_38181_4592740	NC_021163.1	Ca_kabuli_chr04	4592740	AA	GG	1946786143
SNP_P4_38182_4592840	NC_021163.1	Ca_kabuli_chr04	4592840	TT	AA	1946786144
SNP_P4_38183_4592842	NC_021163.1	Ca_kabuli_chr04	4592842	AA	CC	1946786146
SNP_P4_38184_4592849	NC_021163.1	Ca_kabuli_chr04	4592849	GG	AA	1946786148
SNP_P4_38187_4602558	NC_021163.1	Ca_kabuli_chr04	4602558	GG	AA	1946786150
SNP_P4_38188_4631588	NC_021163.1	Ca_kabuli_chr04	4631588	AA	TT	1946786152
SNP_P4_38189_4633069	NC_021163.1	Ca_kabuli_chr04	4633069	GG	AA	1946786155
SNP_P4_38190_4646569	NC_021163.1	Ca_kabuli_chr04	4646569	TT	CC	1946786157
SNP_P4_38191_4654170	NC_021163.1	Ca_kabuli_chr04	4654170	AA	TT	1946786159
SNP_P4_38192_4683722	NC_021163.1	Ca_kabuli_chr04	4683722	CC	AA	1946786161
SNP_P4_38193_4740743	NC_021163.1	Ca_kabuli_chr04	4740743	AA	CC	1946786163
SNP_P4_38196_4817610	NC_021163.1	Ca_kabuli_chr04	4817610	AA	GG	1946786165
SNP_P4_38197_4817726	NC_021163.1	Ca_kabuli_chr04	4817726	AA	CC	1946786167
SNP_P4_38198_4818307	NC_021163.1	Ca_kabuli_chr04	4818307	GG	AA	1946786170
SNP_P4_38199_4818742	NC_021163.1	Ca_kabuli_chr04	4818742	CC	AA	1946786172
SNP_P4_38200_4823996	NC_021163.1	Ca_kabuli_chr04	4823996	CC	TT	1946786174
SNP_P4_38201_4825370	NC_021163.1	Ca_kabuli_chr04	4825370	CC	TT	1946786176

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_38202_4825747	NC_021163.1	Ca_kabuli_chr04	4825747	TT	CC	1946786178
SNP_P4_38203_4827312	NC_021163.1	Ca_kabuli_chr04	4827312	CC	TT	1946786180
SNP_P4_38204_4830050	NC_021163.1	Ca_kabuli_chr04	4830050	GG	AA	1946786183
SNP_P4_38206_4830330	NC_021163.1	Ca_kabuli_chr04	4830330	GG	AA	1946786185
SNP_P4_38207_4830550	NC_021163.1	Ca_kabuli_chr04	4830550	CC	AA	1946786187
SNP_P4_38208_4830763	NC_021163.1	Ca_kabuli_chr04	4830763	AA	GG	1946786189
SNP_P4_38210_4839572	NC_021163.1	Ca_kabuli_chr04	4839572	TT	AA	1946786191
SNP_P4_38212_4839797	NC_021163.1	Ca_kabuli_chr04	4839797	GG	TT	1946786194
SNP_P4_38213_4839799	NC_021163.1	Ca_kabuli_chr04	4839799	GG	CC	1946786196
SNP_P4_38214_4841029	NC_021163.1	Ca_kabuli_chr04	4841029	GG	AA	1946786198
SNP_P4_38215_4841033	NC_021163.1	Ca_kabuli_chr04	4841033	TT	AA	1946786200
SNP_P4_38216_4841047	NC_021163.1	Ca_kabuli_chr04	4841047	TT	GG	1946786202
SNP_P4_38217_4841048	NC_021163.1	Ca_kabuli_chr04	4841048	GG	TT	1946786204
SNP_P4_38218_4841058	NC_021163.1	Ca_kabuli_chr04	4841058	GG	CC	1946786206
SNP_P4_38220_4847206	NC_021163.1	Ca_kabuli_chr04	4847206	TT	AA	1946786208
SNP_P4_38221_4847210	NC_021163.1	Ca_kabuli_chr04	4847210	TT	CC	1946786210
SNP_P4_38222_4847642	NC_021163.1	Ca_kabuli_chr04	4847642	CC	TT	1946786212
SNP_P4_38223_4847751	NC_021163.1	Ca_kabuli_chr04	4847751	AA	GG	1946786214
SNP_P4_38224_4847752	NC_021163.1	Ca_kabuli_chr04	4847752	AA	GG	1946786216
SNP_P4_38225_4847753	NC_021163.1	Ca_kabuli_chr04	4847753	TT	CC	1946786218
SNP_P4_38226_4847754	NC_021163.1	Ca_kabuli_chr04	4847754	CC	TT	1946786220
SNP_P4_38227_4847766	NC_021163.1	Ca_kabuli_chr04	4847766	CC	TT	1946786222
SNP_P4_38228_4847884	NC_021163.1	Ca_kabuli_chr04	4847884	CC	TT	1946786224
SNP_P4_38229_4847916	NC_021163.1	Ca_kabuli_chr04	4847916	GG	TT	1946786226
SNP_P4_38230_4847936	NC_021163.1	Ca_kabuli_chr04	4847936	GG	AA	1946786228
SNP_P4_38231_4847944	NC_021163.1	Ca_kabuli_chr04	4847944	TT	CC	1946786230
SNP_P4_38232_4847975	NC_021163.1	Ca_kabuli_chr04	4847975	AA	GG	1946786232
SNP_P4_38233_4848330	NC_021163.1	Ca_kabuli_chr04	4848330	CC	TT	1946786234
SNP_P4_38236_4848727	NC_021163.1	Ca_kabuli_chr04	4848727	TT	GG	1946786236
SNP_P4_38237_4849747	NC_021163.1	Ca_kabuli_chr04	4849747	CC	TT	1946786238
SNP_P4_38238_4849751	NC_021163.1	Ca_kabuli_chr04	4849751	AA	CC	1946786240
SNP_P4_38239_4850527	NC_021163.1	Ca_kabuli_chr04	4850527	CC	TT	1946786242
SNP_P4_38240_4850685	NC_021163.1	Ca_kabuli_chr04	4850685	GG	AA	1946786244
SNP_P4_38241_4850688	NC_021163.1	Ca_kabuli_chr04	4850688	GG	CC	1946786246
SNP_P4_38242_4850689	NC_021163.1	Ca_kabuli_chr04	4850689	AA	GG	1946786248
SNP_P4_38243_4850818	NC_021163.1	Ca_kabuli_chr04	4850818	CC	AA	1946786250
SNP_P4_38244_4850997	NC_021163.1	Ca_kabuli_chr04	4850997	TT	AA	1946786252
SNP_P4_38246_4851283	NC_021163.1	Ca_kabuli_chr04	4851283	TT	AA	1946786254
SNP_P4_38247_4853375	NC_021163.1	Ca_kabuli_chr04	4853375	AA	TT	1946786256
SNP_P4_38248_4854841	NC_021163.1	Ca_kabuli_chr04	4854841	AA	GG	1946786258
SNP_P4_38249_4854974	NC_021163.1	Ca_kabuli_chr04	4854974	TT	CC	1946786261
SNP_P4_38251_4858890	NC_021163.1	Ca_kabuli_chr04	4858890	AA	TT	1946786263

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_38253_4859175	NC_021163.1	Ca_kabuli_chr04	4859175	GG	TT	1946786267
SNP_P4_38255_4859340	NC_021163.1	Ca_kabuli_chr04	4859340	GG	AA	1946786269
SNP_P4_38257_4859726	NC_021163.1	Ca_kabuli_chr04	4859726	AA	GG	1946786271
SNP_P4_38258_4861003	NC_021163.1	Ca_kabuli_chr04	4861003	CC	TT	1946786273
SNP_P4_38259_4867531	NC_021163.1	Ca_kabuli_chr04	4867531	CC	AA	1946786274
SNP_P4_38260_4867563	NC_021163.1	Ca_kabuli_chr04	4867563	GG	TT	1946786275
SNP_P4_38261_4867891	NC_021163.1	Ca_kabuli_chr04	4867891	TT	AA	1946786276
SNP_P4_38262_4867939	NC_021163.1	Ca_kabuli_chr04	4867939	AA	GG	1946786277
SNP_P4_38264_4872092	NC_021163.1	Ca_kabuli_chr04	4872092	TT	AA	1946786279
SNP_P4_38265_4872102	NC_021163.1	Ca_kabuli_chr04	4872102	GG	TT	1946786281
SNP_P4_38266_4873639	NC_021163.1	Ca_kabuli_chr04	4873639	GG	AA	1946786283
SNP_P4_38269_4874437	NC_021163.1	Ca_kabuli_chr04	4874437	TT	CC	1946786285
SNP_P4_38270_4875613	NC_021163.1	Ca_kabuli_chr04	4875613	CC	TT	1946786287
SNP_P4_38271_4883643	NC_021163.1	Ca_kabuli_chr04	4883643	TT	GG	1946786289
SNP_P4_38272_4884358	NC_021163.1	Ca_kabuli_chr04	4884358	GG	TT	1946786291
SNP_P4_38273_4884396	NC_021163.1	Ca_kabuli_chr04	4884396	CC	TT	1946786293
SNP_P4_38274_4884551	NC_021163.1	Ca_kabuli_chr04	4884551	TT	CC	1946786295
SNP_P4_38275_4888215	NC_021163.1	Ca_kabuli_chr04	4888215	AA	GG	1946786297
SNP_P4_38277_4888336	NC_021163.1	Ca_kabuli_chr04	4888336	AA	GG	1946786299
SNP_P4_38278_4888387	NC_021163.1	Ca_kabuli_chr04	4888387	TT	CC	1946786301
SNP_P4_38279_4889299	NC_021163.1	Ca_kabuli_chr04	4889299	CC	TT	1946786303
SNP_P4_38280_4890680	NC_021163.1	Ca_kabuli_chr04	4890680	CC	AA	1946786305
SNP_P4_38283_4893230	NC_021163.1	Ca_kabuli_chr04	4893230	CC	GG	1946786307
SNP_P4_38285_4896874	NC_021163.1	Ca_kabuli_chr04	4896874	TT	CC	1946786309
SNP_P4_38287_4899227	NC_021163.1	Ca_kabuli_chr04	4899227	GG	AA	1946786311
SNP_P4_38288_4899247	NC_021163.1	Ca_kabuli_chr04	4899247	CC	GG	1946786313
SNP_P4_38289_4899255	NC_021163.1	Ca_kabuli_chr04	4899255	AA	GG	1946786315
SNP_P4_38290_4899328	NC_021163.1	Ca_kabuli_chr04	4899328	TT	CC	1946786317
SNP_P4_38291_4899365	NC_021163.1	Ca_kabuli_chr04	4899365	AA	TT	1946786319
SNP_P4_38292_4899385	NC_021163.1	Ca_kabuli_chr04	4899385	AA	TT	1946786321
SNP_P4_38293_4899404	NC_021163.1	Ca_kabuli_chr04	4899404	AA	GG	1946786323
SNP_P4_38294_4899447	NC_021163.1	Ca_kabuli_chr04	4899447	AA	TT	1946786325
SNP_P4_38295_4899479	NC_021163.1	Ca_kabuli_chr04	4899479	TT	CC	1946786327
SNP_P4_38296_4899539	NC_021163.1	Ca_kabuli_chr04	4899539	GG	AA	1946786329
SNP_P4_38297_4899671	NC_021163.1	Ca_kabuli_chr04	4899671	AA	CC	1946786330
SNP_P4_38298_4899810	NC_021163.1	Ca_kabuli_chr04	4899810	TT	CC	1946786332
SNP_P4_38299_4900279	NC_021163.1	Ca_kabuli_chr04	4900279	GG	AA	1946786334
SNP_P4_38300_4900471	NC_021163.1	Ca_kabuli_chr04	4900471	CC	AA	1946786336
SNP_P4_38301_4901343	NC_021163.1	Ca_kabuli_chr04	4901343	GG	TT	1946786338
SNP_P4_38302_4901484	NC_021163.1	Ca_kabuli_chr04	4901484	GG	AA	1946786340
SNP_P4_38303_4901927	NC_021163.1	Ca_kabuli_chr04	4901927	GG	CC	1946786342

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_38305_4903781	NC_021163.1	Ca_kabuli_chr04	4903781	AA	GG	1946786346
SNP_P4_38307_4903931	NC_021163.1	Ca_kabuli_chr04	4903931	TT	AA	1946786348
SNP_P4_38308_4905219	NC_021163.1	Ca_kabuli_chr04	4905219	TT	CC	1946786350
SNP_P4_38309_4906095	NC_021163.1	Ca_kabuli_chr04	4906095	GG	AA	1946786352
SNP_P4_38310_4906103	NC_021163.1	Ca_kabuli_chr04	4906103	GG	AA	1946786354
SNP_P4_38311_4906136	NC_021163.1	Ca_kabuli_chr04	4906136	AA	GG	1946786356
SNP_P4_38312_4906145	NC_021163.1	Ca_kabuli_chr04	4906145	TT	AA	1946786358
SNP_P4_38313_4906157	NC_021163.1	Ca_kabuli_chr04	4906157	AA	GG	1946786361
SNP_P4_38314_4906171	NC_021163.1	Ca_kabuli_chr04	4906171	GG	AA	1946786363
SNP_P4_38315_4906250	NC_021163.1	Ca_kabuli_chr04	4906250	TT	CC	1946786365
SNP_P4_38316_4906432	NC_021163.1	Ca_kabuli_chr04	4906432	GG	AA	1946786367
SNP_P4_38317_4906446	NC_021163.1	Ca_kabuli_chr04	4906446	AA	TT	1946786369
SNP_P4_38318_4906652	NC_021163.1	Ca_kabuli_chr04	4906652	TT	CC	1946786371
SNP_P4_38320_4907236	NC_021163.1	Ca_kabuli_chr04	4907236	CC	GG	1946786374
SNP_P4_38321_4908738	NC_021163.1	Ca_kabuli_chr04	4908738	GG	AA	1946786376
SNP_P4_38324_4909007	NC_021163.1	Ca_kabuli_chr04	4909007	AA	GG	1946786378
SNP_P4_38325_4909115	NC_021163.1	Ca_kabuli_chr04	4909115	GG	AA	1946786380
SNP_P4_38326_4909163	NC_021163.1	Ca_kabuli_chr04	4909163	CC	TT	1946786382
SNP_P4_38327_4909359	NC_021163.1	Ca_kabuli_chr04	4909359	CC	TT	1946786384
SNP_P4_38328_4910491	NC_021163.1	Ca_kabuli_chr04	4910491	AA	GG	1946786386
SNP_P4_38329_4910533	NC_021163.1	Ca_kabuli_chr04	4910533	AA	CC	1946786388
SNP_P4_38330_4910559	NC_021163.1	Ca_kabuli_chr04	4910559	AA	TT	1946786390
SNP_P4_38331_4910767	NC_021163.1	Ca_kabuli_chr04	4910767	AA	CC	1946786393
SNP_P4_38332_4910817	NC_021163.1	Ca_kabuli_chr04	4910817	AA	TT	1946786395
SNP_P4_38333_4911209	NC_021163.1	Ca_kabuli_chr04	4911209	GG	AA	1946786397
SNP_P4_38334_4913008	NC_021163.1	Ca_kabuli_chr04	4913008	TT	CC	1946786399
SNP_P4_38335_4913038	NC_021163.1	Ca_kabuli_chr04	4913038	AA	GG	1946786401
SNP_P4_38336_4913215	NC_021163.1	Ca_kabuli_chr04	4913215	CC	TT	1946786403
SNP_P4_38337_4913447	NC_021163.1	Ca_kabuli_chr04	4913447	GG	CC	1946786405
SNP_P4_38338_4913466	NC_021163.1	Ca_kabuli_chr04	4913466	TT	GG	1946786407
SNP_P4_38339_4913503	NC_021163.1	Ca_kabuli_chr04	4913503	GG	AA	1946786409
SNP_P4_38340_4913976	NC_021163.1	Ca_kabuli_chr04	4913976	AA	TT	1946786411
SNP_P4_38341_4915740	NC_021163.1	Ca_kabuli_chr04	4915740	AA	GG	1946786413
SNP_P4_38342_4915925	NC_021163.1	Ca_kabuli_chr04	4915925	CC	TT	1946786415
SNP_P4_38343_4915926	NC_021163.1	Ca_kabuli_chr04	4915926	TT	CC	1946786417
SNP_P4_38344_4917165	NC_021163.1	Ca_kabuli_chr04	4917165	AA	GG	1946786419
SNP_P4_38345_4917213	NC_021163.1	Ca_kabuli_chr04	4917213	AA	TT	1946786421
SNP_P4_38346_4917219	NC_021163.1	Ca_kabuli_chr04	4917219	TT	GG	1946786423
SNP_P4_38347_4917260	NC_021163.1	Ca_kabuli_chr04	4917260	CC	TT	1946786425
SNP_P4_38348_4917263	NC_021163.1	Ca_kabuli_chr04	4917263	CC	TT	1946786427
SNP_P4_38349_4917277	NC_021163.1	Ca_kabuli_chr04	4917277	AA	GG	1946786429

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_38351_4917310	NC_021163.1	Ca_kabuli_chr04	4917310	TT	AA	1946786433
SNP_P4_38352_4917447	NC_021163.1	Ca_kabuli_chr04	4917447	AA	GG	1946786435
SNP_P4_38353_4917448	NC_021163.1	Ca_kabuli_chr04	4917448	GG	TT	1946786437
SNP_P4_38354_4917497	NC_021163.1	Ca_kabuli_chr04	4917497	CC	TT	1946786439
SNP_P4_38356_4917602	NC_021163.1	Ca_kabuli_chr04	4917602	CC	TT	1946786441
SNP_P4_38357_4917767	NC_021163.1	Ca_kabuli_chr04	4917767	CC	TT	1946786443
SNP_P4_38358_4917792	NC_021163.1	Ca_kabuli_chr04	4917792	GG	TT	1946786445
SNP_P4_38359_4917812	NC_021163.1	Ca_kabuli_chr04	4917812	TT	GG	1946786447
SNP_P4_38360_4917920	NC_021163.1	Ca_kabuli_chr04	4917920	GG	AA	1946786449
SNP_P4_38361_4917942	NC_021163.1	Ca_kabuli_chr04	4917942	AA	GG	1946786451
SNP_P4_38362_4917951	NC_021163.1	Ca_kabuli_chr04	4917951	TT	CC	1946786453
SNP_P4_38363_4917965	NC_021163.1	Ca_kabuli_chr04	4917965	CC	TT	1946786455
SNP_P4_38364_4917972	NC_021163.1	Ca_kabuli_chr04	4917972	AA	GG	1946786457
SNP_P4_38365_4919624	NC_021163.1	Ca_kabuli_chr04	4919624	TT	AA	1946786459
SNP_P4_38366_4921843	NC_021163.1	Ca_kabuli_chr04	4921843	GG	TT	1946786461
SNP_P4_38367_4922164	NC_021163.1	Ca_kabuli_chr04	4922164	AA	GG	1946786463
SNP_P4_38368_4924486	NC_021163.1	Ca_kabuli_chr04	4924486	AA	GG	1946786465
SNP_P4_38369_4924489	NC_021163.1	Ca_kabuli_chr04	4924489	AA	TT	1946786467
SNP_P4_38370_4924969	NC_021163.1	Ca_kabuli_chr04	4924969	TT	CC	1946786469
SNP_P4_38371_4925061	NC_021163.1	Ca_kabuli_chr04	4925061	TT	AA	1946786471
SNP_P4_38372_4925276	NC_021163.1	Ca_kabuli_chr04	4925276	AA	GG	1946786473
SNP_P4_38373_4925301	NC_021163.1	Ca_kabuli_chr04	4925301	CC	TT	1946786475
SNP_P4_38374_4925367	NC_021163.1	Ca_kabuli_chr04	4925367	AA	TT	1946786477
SNP_P4_38375_4925396	NC_021163.1	Ca_kabuli_chr04	4925396	GG	CC	1946786480
SNP_P4_38376_4925873	NC_021163.1	Ca_kabuli_chr04	4925873	TT	AA	1946786482
SNP_P4_38377_4925883	NC_021163.1	Ca_kabuli_chr04	4925883	GG	AA	1946786484
SNP_P4_38378_4929579	NC_021163.1	Ca_kabuli_chr04	4929579	CC	AA	1946786486
SNP_P4_38379_4931084	NC_021163.1	Ca_kabuli_chr04	4931084	AA	GG	1946786488
SNP_P4_38380_4932224	NC_021163.1	Ca_kabuli_chr04	4932224	CC	TT	1946786490
SNP_P4_38381_4932233	NC_021163.1	Ca_kabuli_chr04	4932233	TT	CC	1946786492
SNP_P4_38382_4933272	NC_021163.1	Ca_kabuli_chr04	4933272	TT	GG	1946786494
SNP_P4_38383_4933335	NC_021163.1	Ca_kabuli_chr04	4933335	CC	TT	1946786496
SNP_P4_38384_4933449	NC_021163.1	Ca_kabuli_chr04	4933449	TT	CC	1946786498
SNP_P4_38385_4933687	NC_021163.1	Ca_kabuli_chr04	4933687	AA	TT	1946786500
SNP_P4_38386_4933707	NC_021163.1	Ca_kabuli_chr04	4933707	GG	AA	1946786502
SNP_P4_38387_4933827	NC_021163.1	Ca_kabuli_chr04	4933827	GG	AA	1946786504
SNP_P4_38388_4933929	NC_021163.1	Ca_kabuli_chr04	4933929	AA	TT	1946786507
SNP_P4_38389_4934352	NC_021163.1	Ca_kabuli_chr04	4934352	AA	GG	1946786509
SNP_P4_38391_4943263	NC_021163.1	Ca_kabuli_chr04	4943263	TT	CC	1946786511
SNP_P4_38393_4944493	NC_021163.1	Ca_kabuli_chr04	4944493	GG	TT	1946786513
SNP_P4_38394_4945326	NC_021163.1	Ca_kabuli_chr04	4945326	GG	AA	1946786515

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_38396_4946058	NC_021163.1	Ca_kabuli_chr04	4946058	TT	CC	1946786519
SNP_P4_38397_4955931	NC_021163.1	Ca_kabuli_chr04	4955931	GG	AA	1946786520
SNP_P4_38398_4956385	NC_021163.1	Ca_kabuli_chr04	4956385	TT	CC	1946786522
SNP_P4_38399_4956818	NC_021163.1	Ca_kabuli_chr04	4956818	GG	TT	1946786524
SNP_P4_38400_4956857	NC_021163.1	Ca_kabuli_chr04	4956857	AA	GG	1946786526
SNP_P4_38401_4966277	NC_021163.1	Ca_kabuli_chr04	4966277	CC	TT	1946786528
SNP_P4_38402_4970058	NC_021163.1	Ca_kabuli_chr04	4970058	AA	GG	1946786530
SNP_P4_38403_4982003	NC_021163.1	Ca_kabuli_chr04	4982003	GG	AA	1946786532
SNP_P4_38404_4992118	NC_021163.1	Ca_kabuli_chr04	4992118	TT	CC	1946786535
SNP_P4_38405_4992122	NC_021163.1	Ca_kabuli_chr04	4992122	TT	CC	1946786537
SNP_P4_38406_4994972	NC_021163.1	Ca_kabuli_chr04	4994972	TT	AA	1946786539
SNP_P4_38408_5010723	NC_021163.1	Ca_kabuli_chr04	5010723	CC	TT	1946786541
SNP_P4_38409_5010833	NC_021163.1	Ca_kabuli_chr04	5010833	TT	CC	1946786543
SNP_P4_38411_5017670	NC_021163.1	Ca_kabuli_chr04	5017670	TT	GG	1946786545
SNP_P4_38415_5038300	NC_021163.1	Ca_kabuli_chr04	5038300	GG	CC	1946786547
SNP_P4_38417_5045789	NC_021163.1	Ca_kabuli_chr04	5045789	AA	GG	1946786549
SNP_P4_38418_5056936	NC_021163.1	Ca_kabuli_chr04	5056936	GG	AA	1946786551
SNP_P4_38419_5088884	NC_021163.1	Ca_kabuli_chr04	5088884	AA	GG	1946786553
SNP_P4_38420_5089637	NC_021163.1	Ca_kabuli_chr04	5089637	CC	TT	1946786555
SNP_P4_38422_5107226	NC_021163.1	Ca_kabuli_chr04	5107226	CC	AA	1946786557
SNP_P4_38423_5126071	NC_021163.1	Ca_kabuli_chr04	5126071	GG	TT	1946786559
SNP_P4_38425_5209285	NC_021163.1	Ca_kabuli_chr04	5209285	CC	AA	1946786561
SNP_P4_38426_5209308	NC_021163.1	Ca_kabuli_chr04	5209308	GG	AA	1946786564
SNP_P4_38427_5209315	NC_021163.1	Ca_kabuli_chr04	5209315	TT	CC	1946786566
SNP_P4_38428_5220854	NC_021163.1	Ca_kabuli_chr04	5220854	CC	AA	1946786568
SNP_P4_38429_5243393	NC_021163.1	Ca_kabuli_chr04	5243393	AA	TT	1946786570
SNP_P4_38430_5249311	NC_021163.1	Ca_kabuli_chr04	5249311	CC	TT	1946786572
SNP_P4_38431_5287043	NC_021163.1	Ca_kabuli_chr04	5287043	CC	AA	1946786574
SNP_P4_38432_5287080	NC_021163.1	Ca_kabuli_chr04	5287080	CC	AA	1946786576
SNP_P4_38434_5305053	NC_021163.1	Ca_kabuli_chr04	5305053	TT	AA	1946786578
SNP_P4_38437_5349515	NC_021163.1	Ca_kabuli_chr04	5349515	AA	CC	1946786580
SNP_P4_38438_5369836	NC_021163.1	Ca_kabuli_chr04	5369836	GG	AA	1946786582
SNP_P4_38441_5438086	NC_021163.1	Ca_kabuli_chr04	5438086	GG	AA	1946786584
SNP_P4_38444_5483394	NC_021163.1	Ca_kabuli_chr04	5483394	TT	CC	1946786586
SNP_P4_38445_5483399	NC_021163.1	Ca_kabuli_chr04	5483399	CC	AA	1946786589
SNP_P4_38446_5483400	NC_021163.1	Ca_kabuli_chr04	5483400	GG	AA	1946786591
SNP_P4_38447_5483404	NC_021163.1	Ca_kabuli_chr04	5483404	AA	GG	1946786593
SNP_P4_38448_5483700	NC_021163.1	Ca_kabuli_chr04	5483700	TT	CC	1946786595
SNP_P4_38449_5483811	NC_021163.1	Ca_kabuli_chr04	5483811	AA	GG	1946786597
SNP_P4_38451_5484956	NC_021163.1	Ca_kabuli_chr04	5484956	AA	GG	1946786599
SNP_P4_38453_5556962	NC_021163.1	Ca_kabuli_chr04	5556962	TT	CC	1946786601

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_38455_5616153	NC_021163.1	Ca_kabuli_chr04	5616153	TT	CC	1946786605
SNP_P4_38456_5616944	NC_021163.1	Ca_kabuli_chr04	5616944	CC	AA	1946786608
SNP_P4_38459_5657942	NC_021163.1	Ca_kabuli_chr04	5657942	TT	AA	1946786610
SNP_P4_38462_5701797	NC_021163.1	Ca_kabuli_chr04	5701797	AA	TT	1946786612
SNP_P4_38463_5701821	NC_021163.1	Ca_kabuli_chr04	5701821	GG	AA	1946786614
SNP_P4_38465_5774437	NC_021163.1	Ca_kabuli_chr04	5774437	AA	GG	1946786616
SNP_P4_38467_5816048	NC_021163.1	Ca_kabuli_chr04	5816048	TT	AA	1946786619
SNP_P4_38469_5828434	NC_021163.1	Ca_kabuli_chr04	5828434	GG	AA	1946786621
SNP_P4_38470_5828635	NC_021163.1	Ca_kabuli_chr04	5828635	TT	AA	1946786623
SNP_P4_38471_5849232	NC_021163.1	Ca_kabuli_chr04	5849232	GG	AA	1946786625
SNP_P4_38472_5856768	NC_021163.1	Ca_kabuli_chr04	5856768	AA	GG	1946786627
SNP_P4_38473_5869752	NC_021163.1	Ca_kabuli_chr04	5869752	AA	GG	1946786630
SNP_P4_38476_5913876	NC_021163.1	Ca_kabuli_chr04	5913876	AA	TT	1946786632
SNP_P4_38477_5915576	NC_021163.1	Ca_kabuli_chr04	5915576	AA	GG	1946786634
SNP_P4_38478_5925667	NC_021163.1	Ca_kabuli_chr04	5925667	GG	TT	1946786637
SNP_P4_38480_5941209	NC_021163.1	Ca_kabuli_chr04	5941209	CC	TT	1946786639
SNP_P4_38481_5951563	NC_021163.1	Ca_kabuli_chr04	5951563	TT	CC	1946786641
SNP_P4_38482_5954372	NC_021163.1	Ca_kabuli_chr04	5954372	TT	CC	1946786643
SNP_P4_38485_5973108	NC_021163.1	Ca_kabuli_chr04	5973108	CC	TT	1946786645
SNP_P4_38486_6013383	NC_021163.1	Ca_kabuli_chr04	6013383	TT	CC	1946786647
SNP_P4_38487_6028077	NC_021163.1	Ca_kabuli_chr04	6028077	TT	CC	1946786649
SNP_P4_38488_6050270	NC_021163.1	Ca_kabuli_chr04	6050270	TT	CC	1946786651
SNP_P4_38489_6050273	NC_021163.1	Ca_kabuli_chr04	6050273	AA	TT	1946786653
SNP_P4_38490_6050283	NC_021163.1	Ca_kabuli_chr04	6050283	TT	GG	1946786655
SNP_P4_38491_6073111	NC_021163.1	Ca_kabuli_chr04	6073111	TT	GG	1946786657
SNP_P4_38493_6095186	NC_021163.1	Ca_kabuli_chr04	6095186	TT	CC	1946786659
SNP_P4_38494_6115813	NC_021163.1	Ca_kabuli_chr04	6115813	GG	TT	1946786661
SNP_P4_38495_6122448	NC_021163.1	Ca_kabuli_chr04	6122448	TT	CC	1946786663
SNP_P4_38496_6123584	NC_021163.1	Ca_kabuli_chr04	6123584	GG	AA	1946786665
SNP_P4_38497_6124635	NC_021163.1	Ca_kabuli_chr04	6124635	GG	AA	1946786667
SNP_P4_38498_6124665	NC_021163.1	Ca_kabuli_chr04	6124665	AA	GG	1946786669
SNP_P4_38499_6124714	NC_021163.1	Ca_kabuli_chr04	6124714	GG	AA	1946786671
SNP_P4_38500_6124716	NC_021163.1	Ca_kabuli_chr04	6124716	TT	CC	1946786673
SNP_P4_38501_6127920	NC_021163.1	Ca_kabuli_chr04	6127920	AA	TT	1946786675
SNP_P4_38502_6127921	NC_021163.1	Ca_kabuli_chr04	6127921	CC	AA	1946786677
SNP_P4_38504_6145007	NC_021163.1	Ca_kabuli_chr04	6145007	TT	AA	1946786679
SNP_P4_38506_6167220	NC_021163.1	Ca_kabuli_chr04	6167220	GG	AA	1946786681
SNP_P4_38507_6168529	NC_021163.1	Ca_kabuli_chr04	6168529	AA	TT	1946786683
SNP_P4_38509_6190285	NC_021163.1	Ca_kabuli_chr04	6190285	GG	CC	1946786685
SNP_P4_38510_6198586	NC_021163.1	Ca_kabuli_chr04	6198586	TT	CC	1946786687
SNP_P4_38511_6206952	NC_021163.1	Ca_kabuli_chr04	6206952	GG	AA	1946786689

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_38513_6210061	NC_021163.1	Ca_kabuli_chr04	6210061	CC	AA	1946786691
SNP_P4_38514_6212288	NC_021163.1	Ca_kabuli_chr04	6212288	TT	CC	1946786693
SNP_P4_38515_6212294	NC_021163.1	Ca_kabuli_chr04	6212294	CC	AA	1946786695
SNP_P4_38516_6212362	NC_021163.1	Ca_kabuli_chr04	6212362	GG	AA	1946786697
SNP_P4_38517_6212553	NC_021163.1	Ca_kabuli_chr04	6212553	AA	CC	1946786699
SNP_P4_38518_6212562	NC_021163.1	Ca_kabuli_chr04	6212562	AA	GG	1946786701
SNP_P4_38519_6212585	NC_021163.1	Ca_kabuli_chr04	6212585	AA	GG	1946786703
SNP_P4_38520_6212587	NC_021163.1	Ca_kabuli_chr04	6212587	TT	CC	1946786705
SNP_P4_38521_6212628	NC_021163.1	Ca_kabuli_chr04	6212628	TT	GG	1946786708
SNP_P4_38522_6212649	NC_021163.1	Ca_kabuli_chr04	6212649	GG	AA	1946786710
SNP_P4_38523_6212669	NC_021163.1	Ca_kabuli_chr04	6212669	GG	AA	1946786712
SNP_P4_38524_6212672	NC_021163.1	Ca_kabuli_chr04	6212672	GG	AA	1946786714
SNP_P4_38525_6219492	NC_021163.1	Ca_kabuli_chr04	6219492	TT	CC	1946786716
SNP_P4_38526_6247783	NC_021163.1	Ca_kabuli_chr04	6247783	AA	GG	1946786718
SNP_P4_38527_6249618	NC_021163.1	Ca_kabuli_chr04	6249618	TT	CC	1946786720
SNP_P4_38528_6254780	NC_021163.1	Ca_kabuli_chr04	6254780	AA	GG	1946786722
SNP_P4_38529_6256507	NC_021163.1	Ca_kabuli_chr04	6256507	CC	TT	1946786724
SNP_P4_38530_6268294	NC_021163.1	Ca_kabuli_chr04	6268294	CC	TT	1946786726
SNP_P4_38531_6282605	NC_021163.1	Ca_kabuli_chr04	6282605	GG	CC	1946786728
SNP_P4_38532_6303810	NC_021163.1	Ca_kabuli_chr04	6303810	AA	GG	1946786730
SNP_P4_38533_6311499	NC_021163.1	Ca_kabuli_chr04	6311499	CC	TT	1946786732
SNP_P4_38534_6313722	NC_021163.1	Ca_kabuli_chr04	6313722	CC	TT	1946786734
SNP_P4_38535_6322346	NC_021163.1	Ca_kabuli_chr04	6322346	GG	AA	1946786736
SNP_P4_38537_6371070	NC_021163.1	Ca_kabuli_chr04	6371070	GG	TT	1946786738
SNP_P4_38539_6386413	NC_021163.1	Ca_kabuli_chr04	6386413	GG	TT	1946786740
SNP_P4_38540_6395284	NC_021163.1	Ca_kabuli_chr04	6395284	TT	AA	1946786742
SNP_P4_38541_6395545	NC_021163.1	Ca_kabuli_chr04	6395545	CC	AA	1946786744
SNP_P4_38542_6397747	NC_021163.1	Ca_kabuli_chr04	6397747	GG	TT	1946786746
SNP_P4_38543_6418115	NC_021163.1	Ca_kabuli_chr04	6418115	CC	TT	1946786748
SNP_P4_38544_6418203	NC_021163.1	Ca_kabuli_chr04	6418203	GG	AA	1946786750
SNP_P4_38545_6424083	NC_021163.1	Ca_kabuli_chr04	6424083	GG	AA	1946786752
SNP_P4_38546_6436271	NC_021163.1	Ca_kabuli_chr04	6436271	CC	GG	1946786754
SNP_P4_38547_6443393	NC_021163.1	Ca_kabuli_chr04	6443393	AA	GG	1946786756
SNP_P4_38548_6455795	NC_021163.1	Ca_kabuli_chr04	6455795	GG	AA	1946786758
SNP_P4_38549_6480208	NC_021163.1	Ca_kabuli_chr04	6480208	TT	GG	1946786760
SNP_P4_38550_6480209	NC_021163.1	Ca_kabuli_chr04	6480209	TT	AA	1946786762
SNP_P4_38552_6521123	NC_021163.1	Ca_kabuli_chr04	6521123	GG	TT	1946786764
SNP_P4_38554_6537375	NC_021163.1	Ca_kabuli_chr04	6537375	GG	AA	1946786766
SNP_P4_38555_6537607	NC_021163.1	Ca_kabuli_chr04	6537607	GG	CC	1946786768
SNP_P4_38558_6577987	NC_021163.1	Ca_kabuli_chr04	6577987	CC	TT	1946786770
SNP_P4_38559_6587375	NC_021163.1	Ca_kabuli_chr04	6587375	GG	TT	1946786772
SNP_P4_38560_6588114	NC_021163.1	Ca_kabuli_chr04	6588114	CC	TT	1946786774

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_38562_6607646	NC_021163.1	Ca_kabuli_chr04	6607646	AA	GG	1946786779
SNP_P4_38563_6608785	NC_021163.1	Ca_kabuli_chr04	6608785	GG	AA	1946786781
SNP_P4_38565_6620114	NC_021163.1	Ca_kabuli_chr04	6620114	TT	CC	1946786783
SNP_P4_38566_6706277	NC_021163.1	Ca_kabuli_chr04	6706277	AA	GG	1946786785
SNP_P4_38567_6712312	NC_021163.1	Ca_kabuli_chr04	6712312	CC	TT	1946786787
SNP_P4_38568_6746268	NC_021163.1	Ca_kabuli_chr04	6746268	CC	GG	1946786789
SNP_P4_38570_6795373	NC_021163.1	Ca_kabuli_chr04	6795373	AA	TT	1946786791
SNP_P4_38572_6822700	NC_021163.1	Ca_kabuli_chr04	6822700	TT	AA	1946786793
SNP_P4_38573_6864116	NC_021163.1	Ca_kabuli_chr04	6864116	CC	TT	1946786797
SNP_P4_38574_6865835	NC_021163.1	Ca_kabuli_chr04	6865835	TT	GG	1946786799
SNP_P4_38576_6901597	NC_021163.1	Ca_kabuli_chr04	6901597	TT	CC	1946786801
SNP_P4_38578_6907263	NC_021163.1	Ca_kabuli_chr04	6907263	AA	TT	1946786803
SNP_P4_38579_6907267	NC_021163.1	Ca_kabuli_chr04	6907267	CC	TT	1946786805
SNP_P4_38580_6907299	NC_021163.1	Ca_kabuli_chr04	6907299	AA	GG	1946786807
SNP_P4_38582_6913088	NC_021163.1	Ca_kabuli_chr04	6913088	TT	AA	1946786809
SNP_P4_38583_6916875	NC_021163.1	Ca_kabuli_chr04	6916875	GG	AA	1946786811
SNP_P4_38584_6975761	NC_021163.1	Ca_kabuli_chr04	6975761	AA	CC	1946786813
SNP_P4_38585_6975779	NC_021163.1	Ca_kabuli_chr04	6975779	CC	AA	1946786815
SNP_P4_38588_7010489	NC_021163.1	Ca_kabuli_chr04	7010489	AA	CC	1946786817
SNP_P4_38589_7010492	NC_021163.1	Ca_kabuli_chr04	7010492	AA	TT	1946786819
SNP_P4_38592_7032655	NC_021163.1	Ca_kabuli_chr04	7032655	GG	AA	1946786821
SNP_P4_38593_7071910	NC_021163.1	Ca_kabuli_chr04	7071910	GG	TT	1946786823
SNP_P4_38594_7074700	NC_021163.1	Ca_kabuli_chr04	7074700	AA	GG	1946786825
SNP_P4_38597_7106487	NC_021163.1	Ca_kabuli_chr04	7106487	TT	GG	1946786827
SNP_P4_38598_7107186	NC_021163.1	Ca_kabuli_chr04	7107186	CC	AA	1946786830
SNP_P4_38599_7107239	NC_021163.1	Ca_kabuli_chr04	7107239	CC	AA	1946786832
SNP_P4_38600_7108099	NC_021163.1	Ca_kabuli_chr04	7108099	TT	GG	1946786834
SNP_P4_38601_7108103	NC_021163.1	Ca_kabuli_chr04	7108103	TT	AA	1946786836
SNP_P4_38602_7110486	NC_021163.1	Ca_kabuli_chr04	7110486	GG	AA	1946786838
SNP_P4_38603_7110547	NC_021163.1	Ca_kabuli_chr04	7110547	CC	TT	1946786840
SNP_P4_38604_7127259	NC_021163.1	Ca_kabuli_chr04	7127259	GG	AA	1946786842
SNP_P4_38605_7128635	NC_021163.1	Ca_kabuli_chr04	7128635	GG	AA	1946786844
SNP_P4_38606_7128962	NC_021163.1	Ca_kabuli_chr04	7128962	AA	CC	1946786846
SNP_P4_38608_7154118	NC_021163.1	Ca_kabuli_chr04	7154118	GG	AA	1946786848
SNP_P4_38609_7159720	NC_021163.1	Ca_kabuli_chr04	7159720	CC	TT	1946786850
SNP_P4_38610_7179650	NC_021163.1	Ca_kabuli_chr04	7179650	AA	GG	1946786852
SNP_P4_38612_7181726	NC_021163.1	Ca_kabuli_chr04	7181726	TT	CC	1946786854
SNP_P4_38613_7263629	NC_021163.1	Ca_kabuli_chr04	7263629	CC	TT	1946786856
SNP_P4_38614_7264684	NC_021163.1	Ca_kabuli_chr04	7264684	GG	TT	1946786858
SNP_P4_38615_7269686	NC_021163.1	Ca_kabuli_chr04	7269686	TT	CC	1946786860
SNP_P4_38616_7272521	NC_021163.1	Ca_kabuli_chr04	7272521	TT	CC	1946786862

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_38618_7290853	NC_021163.1	Ca_kabuli_chr04	7290853	TT	AA	1946786866
SNP_P4_38621_7323477	NC_021163.1	Ca_kabuli_chr04	7323477	CC	TT	1946786868
SNP_P4_38622_7325963	NC_021163.1	Ca_kabuli_chr04	7325963	AA	GG	1946786870
SNP_P4_38625_7431724	NC_021163.1	Ca_kabuli_chr04	7431724	AA	GG	1946786872
SNP_P4_38626_7440765	NC_021163.1	Ca_kabuli_chr04	7440765	GG	AA	1946786874
SNP_P4_38628_7479828	NC_021163.1	Ca_kabuli_chr04	7479828	CC	TT	1946786877
SNP_P4_38629_7480193	NC_021163.1	Ca_kabuli_chr04	7480193	AA	GG	1946786879
SNP_P4_38630_7492679	NC_021163.1	Ca_kabuli_chr04	7492679	GG	AA	1946786881
SNP_P4_38631_7542523	NC_021163.1	Ca_kabuli_chr04	7542523	GG	AA	1946786883
SNP_P4_38632_7543422	NC_021163.1	Ca_kabuli_chr04	7543422	AA	GG	1946786885
SNP_P4_38633_7550579	NC_021163.1	Ca_kabuli_chr04	7550579	AA	TT	1946786887
SNP_P4_38634_7552037	NC_021163.1	Ca_kabuli_chr04	7552037	AA	GG	1946786889
SNP_P4_38635_7562047	NC_021163.1	Ca_kabuli_chr04	7562047	GG	TT	1946786891
SNP_P4_38636_7579920	NC_021163.1	Ca_kabuli_chr04	7579920	GG	AA	1946786893
SNP_P4_38638_7625260	NC_021163.1	Ca_kabuli_chr04	7625260	AA	GG	1946786895
SNP_P4_38639_7632959	NC_021163.1	Ca_kabuli_chr04	7632959	GG	AA	1946786897
SNP_P4_38640_7634191	NC_021163.1	Ca_kabuli_chr04	7634191	CC	TT	1946786899
SNP_P4_38641_7637857	NC_021163.1	Ca_kabuli_chr04	7637857	TT	CC	1946786901
SNP_P4_38642_7638070	NC_021163.1	Ca_kabuli_chr04	7638070	TT	AA	1946786903
SNP_P4_38643_7638088	NC_021163.1	Ca_kabuli_chr04	7638088	CC	AA	1946786905
SNP_P4_38644_7638091	NC_021163.1	Ca_kabuli_chr04	7638091	CC	AA	1946786907
SNP_P4_38645_7638100	NC_021163.1	Ca_kabuli_chr04	7638100	AA	GG	1946786909
SNP_P4_38646_7638110	NC_021163.1	Ca_kabuli_chr04	7638110	GG	AA	1946786911
SNP_P4_38647_7638134	NC_021163.1	Ca_kabuli_chr04	7638134	CC	TT	1946786913
SNP_P4_38648_7638308	NC_021163.1	Ca_kabuli_chr04	7638308	GG	TT	1946786915
SNP_P4_38649_7638462	NC_021163.1	Ca_kabuli_chr04	7638462	GG	AA	1946786917
SNP_P4_38651_7638594	NC_021163.1	Ca_kabuli_chr04	7638594	CC	AA	1946786919
SNP_P4_38652_7638612	NC_021163.1	Ca_kabuli_chr04	7638612	GG	AA	1946786921
SNP_P4_38653_7638671	NC_021163.1	Ca_kabuli_chr04	7638671	AA	GG	1946786923
SNP_P4_38655_7657618	NC_021163.1	Ca_kabuli_chr04	7657618	AA	TT	1946786925
SNP_P4_38656_7667206	NC_021163.1	Ca_kabuli_chr04	7667206	CC	TT	1946786927
SNP_P4_38657_7673715	NC_021163.1	Ca_kabuli_chr04	7673715	AA	CC	1946786929
SNP_P4_38659_7686918	NC_021163.1	Ca_kabuli_chr04	7686918	AA	TT	1946786931
SNP_P4_38661_7714128	NC_021163.1	Ca_kabuli_chr04	7714128	AA	TT	1946786933
SNP_P4_38662_7733801	NC_021163.1	Ca_kabuli_chr04	7733801	CC	TT	1946786935
SNP_P4_38663_7818719	NC_021163.1	Ca_kabuli_chr04	7818719	CC	GG	1946786937
SNP_P4_38664_7820685	NC_021163.1	Ca_kabuli_chr04	7820685	CC	TT	1946786939
SNP_P4_38665_7825107	NC_021163.1	Ca_kabuli_chr04	7825107	TT	AA	1946786941
SNP_P4_38667_7826813	NC_021163.1	Ca_kabuli_chr04	7826813	CC	TT	1946786944
SNP_P4_38668_7842951	NC_021163.1	Ca_kabuli_chr04	7842951	AA	GG	1946786946
SNP_P4_38669_7876192	NC_021163.1	Ca_kabuli_chr04	7876192	CC	TT	1946786948

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_38671_7920411	NC_021163.1	Ca_kabuli_chr04	7920411	AA	GG	1946786952
SNP_P4_38674_7943002	NC_021163.1	Ca_kabuli_chr04	7943002	TT	CC	1946786954
SNP_P4_38675_7947919	NC_021163.1	Ca_kabuli_chr04	7947919	GG	AA	1946786956
SNP_P4_38676_7949922	NC_021163.1	Ca_kabuli_chr04	7949922	TT	AA	1946786958
SNP_P4_38677_7949930	NC_021163.1	Ca_kabuli_chr04	7949930	TT	AA	1946786960
SNP_P4_38679_8007853	NC_021163.1	Ca_kabuli_chr04	8007853	TT	CC	1946786962
SNP_P4_38680_8029195	NC_021163.1	Ca_kabuli_chr04	8029195	TT	AA	1946786964
SNP_P4_38682_8035316	NC_021163.1	Ca_kabuli_chr04	8035316	GG	AA	1946786966
SNP_P4_38683_8035531	NC_021163.1	Ca_kabuli_chr04	8035531	AA	TT	1946786968
SNP_P4_38684_8040022	NC_021163.1	Ca_kabuli_chr04	8040022	GG	AA	1946786970
SNP_P4_38685_8042891	NC_021163.1	Ca_kabuli_chr04	8042891	GG	AA	1946786972
SNP_P4_38686_8052097	NC_021163.1	Ca_kabuli_chr04	8052097	GG	AA	1946786974
SNP_P4_38687_8058046	NC_021163.1	Ca_kabuli_chr04	8058046	AA	GG	1946786976
SNP_P4_38688_8095904	NC_021163.1	Ca_kabuli_chr04	8095904	AA	TT	1946786979
SNP_P4_38689_8095909	NC_021163.1	Ca_kabuli_chr04	8095909	TT	GG	1946786981
SNP_P4_38690_8101432	NC_021163.1	Ca_kabuli_chr04	8101432	AA	TT	1946786983
SNP_P4_38692_8159171	NC_021163.1	Ca_kabuli_chr04	8159171	TT	AA	1946786985
SNP_P4_38693_8159174	NC_021163.1	Ca_kabuli_chr04	8159174	TT	GG	1946786987
SNP_P4_38694_8166553	NC_021163.1	Ca_kabuli_chr04	8166553	CC	TT	1946786989
SNP_P4_38696_8167215	NC_021163.1	Ca_kabuli_chr04	8167215	CC	AA	1946786992
SNP_P4_38698_8167279	NC_021163.1	Ca_kabuli_chr04	8167279	TT	GG	1946786994
SNP_P4_38700_8167365	NC_021163.1	Ca_kabuli_chr04	8167365	TT	CC	1946786996
SNP_P4_38701_8167498	NC_021163.1	Ca_kabuli_chr04	8167498	GG	TT	1946786998
SNP_P4_38703_8167643	NC_021163.1	Ca_kabuli_chr04	8167643	TT	CC	1946787000
SNP_P4_38704_8168607	NC_021163.1	Ca_kabuli_chr04	8168607	TT	GG	1946787002
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SNP_P4_38706_8168629	NC_021163.1	Ca_kabuli_chr04	8168629	TT	CC	1946787006
SNP_P4_38707_8169561	NC_021163.1	Ca_kabuli_chr04	8169561	GG	CC	1946787008
SNP_P4_38710_8170000	NC_021163.1	Ca_kabuli_chr04	8170000	GG	TT	1946787010
SNP_P4_38711_8170050	NC_021163.1	Ca_kabuli_chr04	8170050	TT	AA	1946787012
SNP_P4_38712_8170363	NC_021163.1	Ca_kabuli_chr04	8170363	CC	TT	1946787014
SNP_P4_38713_8170381	NC_021163.1	Ca_kabuli_chr04	8170381	AA	GG	1946787016
SNP_P4_38714_8170391	NC_021163.1	Ca_kabuli_chr04	8170391	CC	TT	1946787018
SNP_P4_38715_8170400	NC_021163.1	Ca_kabuli_chr04	8170400	TT	CC	1946787020
SNP_P4_38716_8170451	NC_021163.1	Ca_kabuli_chr04	8170451	AA	CC	1946787022
SNP_P4_38718_8170695	NC_021163.1	Ca_kabuli_chr04	8170695	CC	GG	1946787024
SNP_P4_38719_8170794	NC_021163.1	Ca_kabuli_chr04	8170794	CC	TT	1946787026
SNP_P4_38720_8170799	NC_021163.1	Ca_kabuli_chr04	8170799	TT	AA	1946787028
SNP_P4_38721_8171166	NC_021163.1	Ca_kabuli_chr04	8171166	AA	GG	1946787030
SNP_P4_38722_8171744	NC_021163.1	Ca_kabuli_chr04	8171744	GG	AA	1946787033
SNP_P4_38723_8171994	NC_021163.1	Ca_kabuli_chr04	8171994	TT	CC	1946787035

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_38726_8173691	NC_021163.1	Ca_kabuli_chr04	8173691	AA	GG	1946787039
SNP_P4_38728_8176091	NC_021163.1	Ca_kabuli_chr04	8176091	GG	CC	1946787042
SNP_P4_38729_8176092	NC_021163.1	Ca_kabuli_chr04	8176092	GG	CC	1946787044
SNP_P4_38730_8176426	NC_021163.1	Ca_kabuli_chr04	8176426	AA	GG	1946787046
SNP_P4_38731_8176459	NC_021163.1	Ca_kabuli_chr04	8176459	CC	TT	1946787048
SNP_P4_38732_8176501	NC_021163.1	Ca_kabuli_chr04	8176501	GG	AA	1946787050
SNP_P4_38733_8176518	NC_021163.1	Ca_kabuli_chr04	8176518	TT	CC	1946787052
SNP_P4_38734_8177624	NC_021163.1	Ca_kabuli_chr04	8177624	AA	GG	1946787054
SNP_P4_38735_8178235	NC_021163.1	Ca_kabuli_chr04	8178235	GG	TT	1946787056
SNP_P4_38736_8179968	NC_021163.1	Ca_kabuli_chr04	8179968	CC	TT	1946787058
SNP_P4_38737_8180503	NC_021163.1	Ca_kabuli_chr04	8180503	TT	CC	1946787060
SNP_P4_38738_8182455	NC_021163.1	Ca_kabuli_chr04	8182455	CC	GG	1946787062
SNP_P4_38739_8182707	NC_021163.1	Ca_kabuli_chr04	8182707	CC	TT	1946787064
SNP_P4_38742_8184718	NC_021163.1	Ca_kabuli_chr04	8184718	CC	TT	1946787066
SNP_P4_38743_8184895	NC_021163.1	Ca_kabuli_chr04	8184895	TT	CC	1946787068
SNP_P4_38744_8185146	NC_021163.1	Ca_kabuli_chr04	8185146	CC	TT	1946787070
SNP_P4_38745_8185441	NC_021163.1	Ca_kabuli_chr04	8185441	GG	AA	1946787072
SNP_P4_38746_8185508	NC_021163.1	Ca_kabuli_chr04	8185508	CC	TT	1946787074
SNP_P4_38747_8185513	NC_021163.1	Ca_kabuli_chr04	8185513	TT	CC	1946787076
SNP_P4_38748_8185560	NC_021163.1	Ca_kabuli_chr04	8185560	TT	CC	1946787078
SNP_P4_38749_8185613	NC_021163.1	Ca_kabuli_chr04	8185613	AA	GG	1946787080
SNP_P4_38750_8185853	NC_021163.1	Ca_kabuli_chr04	8185853	GG	AA	1946787082
SNP_P4_38751_8186279	NC_021163.1	Ca_kabuli_chr04	8186279	GG	AA	1946787084
SNP_P4_38753_8187452	NC_021163.1	Ca_kabuli_chr04	8187452	AA	TT	1946787086
SNP_P4_38754_8187726	NC_021163.1	Ca_kabuli_chr04	8187726	TT	CC	1946787088
SNP_P4_38756_8188717	NC_021163.1	Ca_kabuli_chr04	8188717	AA	GG	1946787090
SNP_P4_38757_8189416	NC_021163.1	Ca_kabuli_chr04	8189416	TT	CC	1946787093
SNP_P4_38758_8189820	NC_021163.1	Ca_kabuli_chr04	8189820	TT	CC	1946787095
SNP_P4_38759_8190805	NC_021163.1	Ca_kabuli_chr04	8190805	TT	AA	1946787097
SNP_P4_38760_8191224	NC_021163.1	Ca_kabuli_chr04	8191224	GG	AA	1946787099
SNP_P4_38762_8194654	NC_021163.1	Ca_kabuli_chr04	8194654	AA	GG	1946787101
SNP_P4_38764_8195164	NC_021163.1	Ca_kabuli_chr04	8195164	TT	GG	1946787103
SNP_P4_38766_8197170	NC_021163.1	Ca_kabuli_chr04	8197170	AA	GG	1946787105
SNP_P4_38767_8197471	NC_021163.1	Ca_kabuli_chr04	8197471	CC	AA	1946787107
SNP_P4_38768_8198305	NC_021163.1	Ca_kabuli_chr04	8198305	AA	TT	1946787109
SNP_P4_38769_8198760	NC_021163.1	Ca_kabuli_chr04	8198760	AA	GG	1946787111
SNP_P4_38770_8198766	NC_021163.1	Ca_kabuli_chr04	8198766	AA	CC	1946787113
SNP_P4_38771_8198955	NC_021163.1	Ca_kabuli_chr04	8198955	AA	TT	1946787115
SNP_P4_38772_8198985	NC_021163.1	Ca_kabuli_chr04	8198985	AA	GG	1946787117
SNP_P4_38773_8199356	NC_021163.1	Ca_kabuli_chr04	8199356	AA	GG	1946787119
SNP_P4_38775_8200984	NC_021163.1	Ca_kabuli_chr04	8200984	TT	AA	1946787121

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_38778_8204589	NC_021163.1	Ca_kabuli_chr04	8204589	TT	CC	1946787125
SNP_P4_38779_8204604	NC_021163.1	Ca_kabuli_chr04	8204604	TT	CC	1946787127
SNP_P4_38780_8204616	NC_021163.1	Ca_kabuli_chr04	8204616	GG	TT	1946787129
SNP_P4_38781_8205046	NC_021163.1	Ca_kabuli_chr04	8205046	TT	AA	1946787131
SNP_P4_38782_8207169	NC_021163.1	Ca_kabuli_chr04	8207169	TT	AA	1946787133
SNP_P4_38783_8207460	NC_021163.1	Ca_kabuli_chr04	8207460	AA	CC	1946787135
SNP_P4_38784_8207461	NC_021163.1	Ca_kabuli_chr04	8207461	TT	AA	1946787138
SNP_P4_38785_8207463	NC_021163.1	Ca_kabuli_chr04	8207463	AA	TT	1946787140
SNP_P4_38786_8208324	NC_021163.1	Ca_kabuli_chr04	8208324	TT	CC	1946787142
SNP_P4_38787_8208547	NC_021163.1	Ca_kabuli_chr04	8208547	AA	GG	1946787144
SNP_P4_38788_8209144	NC_021163.1	Ca_kabuli_chr04	8209144	AA	GG	1946787146
SNP_P4_38789_8209155	NC_021163.1	Ca_kabuli_chr04	8209155	TT	CC	1946787148
SNP_P4_38790_8209184	NC_021163.1	Ca_kabuli_chr04	8209184	CC	GG	1946787150
SNP_P4_38791_8209202	NC_021163.1	Ca_kabuli_chr04	8209202	TT	CC	1946787152
SNP_P4_38792_8209315	NC_021163.1	Ca_kabuli_chr04	8209315	AA	TT	1946787154
SNP_P4_38793_8209327	NC_021163.1	Ca_kabuli_chr04	8209327	GG	CC	1946787156
SNP_P4_38794_8209478	NC_021163.1	Ca_kabuli_chr04	8209478	TT	GG	1946787158
SNP_P4_38796_8209544	NC_021163.1	Ca_kabuli_chr04	8209544	GG	AA	1946787160
SNP_P4_38797_8209553	NC_021163.1	Ca_kabuli_chr04	8209553	AA	GG	1946787162
SNP_P4_38798_8209562	NC_021163.1	Ca_kabuli_chr04	8209562	AA	GG	1946787164
SNP_P4_38800_8209799	NC_021163.1	Ca_kabuli_chr04	8209799	GG	CC	1946787166
SNP_P4_38802_8210545	NC_021163.1	Ca_kabuli_chr04	8210545	TT	CC	1946787168
SNP_P4_38803_8210604	NC_021163.1	Ca_kabuli_chr04	8210604	CC	TT	1946787170
SNP_P4_38805_8210744	NC_021163.1	Ca_kabuli_chr04	8210744	TT	CC	1946787172
SNP_P4_38806_8210922	NC_021163.1	Ca_kabuli_chr04	8210922	AA	GG	1946787174
SNP_P4_38807_8210985	NC_021163.1	Ca_kabuli_chr04	8210985	GG	TT	1946787176
SNP_P4_38808_8211008	NC_021163.1	Ca_kabuli_chr04	8211008	CC	TT	1946787178
SNP_P4_38809_8211229	NC_021163.1	Ca_kabuli_chr04	8211229	AA	CC	1946787180
SNP_P4_38810_8211246	NC_021163.1	Ca_kabuli_chr04	8211246	CC	TT	1946787183
SNP_P4_38811_8211279	NC_021163.1	Ca_kabuli_chr04	8211279	AA	GG	1946787185
SNP_P4_38813_8211812	NC_021163.1	Ca_kabuli_chr04	8211812	GG	AA	1946787187
SNP_P4_38814_8212042	NC_021163.1	Ca_kabuli_chr04	8212042	AA	CC	1946787189
SNP_P4_38815_8214727	NC_021163.1	Ca_kabuli_chr04	8214727	AA	GG	1946787191
SNP_P4_38816_8214742	NC_021163.1	Ca_kabuli_chr04	8214742	AA	CC	1946787193
SNP_P4_38818_8214770	NC_021163.1	Ca_kabuli_chr04	8214770	CC	AA	1946787195
SNP_P4_38819_8214778	NC_021163.1	Ca_kabuli_chr04	8214778	CC	TT	1946787197
SNP_P4_38820_8214848	NC_021163.1	Ca_kabuli_chr04	8214848	TT	GG	1946787199
SNP_P4_38821_8215045	NC_021163.1	Ca_kabuli_chr04	8215045	AA	TT	1946787202
SNP_P4_38822_8215075	NC_021163.1	Ca_kabuli_chr04	8215075	TT	AA	1946787204
SNP_P4_38823_8215082	NC_021163.1	Ca_kabuli_chr04	8215082	AA	TT	1946787206
SNP_P4_38824_8215083	NC_021163.1	Ca_kabuli_chr04	8215083	AA	TT	1946787208

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_38827_8215388	NC_021163.1	Ca_kabuli_chr04	8215388	GG	AA	1946787212
SNP_P4_38828_8215476	NC_021163.1	Ca_kabuli_chr04	8215476	AA	GG	1946787214
SNP_P4_38829_8215530	NC_021163.1	Ca_kabuli_chr04	8215530	CC	TT	1946787216
SNP_P4_38831_8215593	NC_021163.1	Ca_kabuli_chr04	8215593	CC	TT	1946787218
SNP_P4_38832_8215626	NC_021163.1	Ca_kabuli_chr04	8215626	AA	TT	1946787220
SNP_P4_38833_8215898	NC_021163.1	Ca_kabuli_chr04	8215898	CC	TT	1946787222
SNP_P4_38834_8217067	NC_021163.1	Ca_kabuli_chr04	8217067	GG	AA	1946787224
SNP_P4_38835_8217130	NC_021163.1	Ca_kabuli_chr04	8217130	CC	TT	1946787226
SNP_P4_38836_8217150	NC_021163.1	Ca_kabuli_chr04	8217150	AA	GG	1946787228
SNP_P4_38837_8217174	NC_021163.1	Ca_kabuli_chr04	8217174	AA	GG	1946787230
SNP_P4_38838_8217181	NC_021163.1	Ca_kabuli_chr04	8217181	CC	TT	1946787232
SNP_P4_38840_8217226	NC_021163.1	Ca_kabuli_chr04	8217226	AA	CC	1946787234
SNP_P4_38841_8217248	NC_021163.1	Ca_kabuli_chr04	8217248	GG	AA	1946787236
SNP_P4_38842_8217317	NC_021163.1	Ca_kabuli_chr04	8217317	GG	AA	1946787238
SNP_P4_38843_8217327	NC_021163.1	Ca_kabuli_chr04	8217327	AA	GG	1946787240
SNP_P4_38844_8219366	NC_021163.1	Ca_kabuli_chr04	8219366	CC	GG	1946787242
SNP_P4_38845_8219950	NC_021163.1	Ca_kabuli_chr04	8219950	CC	GG	1946787244
SNP_P4_38846_8220339	NC_021163.1	Ca_kabuli_chr04	8220339	AA	GG	1946787246
SNP_P4_38847_8220517	NC_021163.1	Ca_kabuli_chr04	8220517	AA	GG	1946787248
SNP_P4_38848_8220527	NC_021163.1	Ca_kabuli_chr04	8220527	AA	GG	1946787250
SNP_P4_38849_8220927	NC_021163.1	Ca_kabuli_chr04	8220927	AA	GG	1946787252
SNP_P4_38851_8221628	NC_021163.1	Ca_kabuli_chr04	8221628	GG	AA	1946787254
SNP_P4_38852_8221654	NC_021163.1	Ca_kabuli_chr04	8221654	AA	GG	1946787256
SNP_P4_38853_8221945	NC_021163.1	Ca_kabuli_chr04	8221945	AA	TT	1946787258
SNP_P4_38854_8221991	NC_021163.1	Ca_kabuli_chr04	8221991	TT	GG	1946787260
SNP_P4_38856_8223339	NC_021163.1	Ca_kabuli_chr04	8223339	TT	CC	1946787262
SNP_P4_38857_8223686	NC_021163.1	Ca_kabuli_chr04	8223686	GG	TT	1946787264
SNP_P4_38858_8223771	NC_021163.1	Ca_kabuli_chr04	8223771	CC	TT	1946787267
SNP_P4_38859_8226051	NC_021163.1	Ca_kabuli_chr04	8226051	CC	GG	1946787269
SNP_P4_38860_8226959	NC_021163.1	Ca_kabuli_chr04	8226959	TT	CC	1946787271
SNP_P4_38861_8227111	NC_021163.1	Ca_kabuli_chr04	8227111	CC	GG	1946787273
SNP_P4_38862_8227306	NC_021163.1	Ca_kabuli_chr04	8227306	GG	AA	1946787275
SNP_P4_38863_8227310	NC_021163.1	Ca_kabuli_chr04	8227310	AA	GG	1946787277
SNP_P4_38864_8227330	NC_021163.1	Ca_kabuli_chr04	8227330	AA	GG	1946787279
SNP_P4_38865_8227337	NC_021163.1	Ca_kabuli_chr04	8227337	AA	GG	1946787281
SNP_P4_38866_8227346	NC_021163.1	Ca_kabuli_chr04	8227346	GG	AA	1946787283
SNP_P4_38867_8227369	NC_021163.1	Ca_kabuli_chr04	8227369	TT	CC	1946787285
SNP_P4_38868_8230374	NC_021163.1	Ca_kabuli_chr04	8230374	AA	GG	1946787287
SNP_P4_38869_8230413	NC_021163.1	Ca_kabuli_chr04	8230413	CC	AA	1946787289
SNP_P4_38870_8230760	NC_021163.1	Ca_kabuli_chr04	8230760	TT	CC	1946787291
SNP_P4_38871_8230858	NC_021163.1	Ca_kabuli_chr04	8230858	AA	CC	1946787293

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_38874_8237016	NC_021163.1	Ca_kabuli_chr04	8237016	GG	AA	1946787299
SNP_P4_38876_8238090	NC_021163.1	Ca_kabuli_chr04	8238090	TT	AA	1946787301
SNP_P4_38878_8238198	NC_021163.1	Ca_kabuli_chr04	8238198	CC	TT	1946787303
SNP_P4_38881_8239918	NC_021163.1	Ca_kabuli_chr04	8239918	CC	TT	1946787305
SNP_P4_38883_8241138	NC_021163.1	Ca_kabuli_chr04	8241138	GG	AA	1946787307
SNP_P4_38884_8241149	NC_021163.1	Ca_kabuli_chr04	8241149	TT	AA	1946787309
SNP_P4_38886_8241485	NC_021163.1	Ca_kabuli_chr04	8241485	AA	TT	1946787311
SNP_P4_38887_8241486	NC_021163.1	Ca_kabuli_chr04	8241486	CC	TT	1946787313
SNP_P4_38888_8241511	NC_021163.1	Ca_kabuli_chr04	8241511	TT	AA	1946787315
SNP_P4_38889_8241828	NC_021163.1	Ca_kabuli_chr04	8241828	TT	AA	1946787317
SNP_P4_38890_8241836	NC_021163.1	Ca_kabuli_chr04	8241836	GG	CC	1946787319
SNP_P4_38891_8241877	NC_021163.1	Ca_kabuli_chr04	8241877	AA	GG	1946787321
SNP_P4_38892_8241878	NC_021163.1	Ca_kabuli_chr04	8241878	AA	TT	1946787323
SNP_P4_38893_8241918	NC_021163.1	Ca_kabuli_chr04	8241918	AA	GG	1946787325
SNP_P4_38895_8243016	NC_021163.1	Ca_kabuli_chr04	8243016	CC	AA	1946787327
SNP_P4_38896_8243020	NC_021163.1	Ca_kabuli_chr04	8243020	AA	CC	1946787329
SNP_P4_38897_8243083	NC_021163.1	Ca_kabuli_chr04	8243083	TT	AA	1946787331
SNP_P4_38898_8243318	NC_021163.1	Ca_kabuli_chr04	8243318	GG	AA	1946787333
SNP_P4_38899_8243482	NC_021163.1	Ca_kabuli_chr04	8243482	GG	AA	1946787335
SNP_P4_38902_8248038	NC_021163.1	Ca_kabuli_chr04	8248038	GG	AA	1946787337
SNP_P4_38903_8248288	NC_021163.1	Ca_kabuli_chr04	8248288	TT	CC	1946787339
SNP_P4_38904_8252620	NC_021163.1	Ca_kabuli_chr04	8252620	CC	TT	1946787341
SNP_P4_38905_8253171	NC_021163.1	Ca_kabuli_chr04	8253171	AA	GG	1946787343
SNP_P4_38906_8253831	NC_021163.1	Ca_kabuli_chr04	8253831	GG	AA	1946787345
SNP_P4_38907_8254520	NC_021163.1	Ca_kabuli_chr04	8254520	AA	GG	1946787347
SNP_P4_38908_8256356	NC_021163.1	Ca_kabuli_chr04	8256356	GG	TT	1946787349
SNP_P4_38909_8256855	NC_021163.1	Ca_kabuli_chr04	8256855	CC	TT	1946787351
SNP_P4_38910_8257096	NC_021163.1	Ca_kabuli_chr04	8257096	AA	TT	1946787353
SNP_P4_38911_8257982	NC_021163.1	Ca_kabuli_chr04	8257982	CC	TT	1946787355
SNP_P4_38913_8264040	NC_021163.1	Ca_kabuli_chr04	8264040	AA	GG	1946787357
SNP_P4_38914_8264674	NC_021163.1	Ca_kabuli_chr04	8264674	TT	AA	1946787359
SNP_P4_38915_8264881	NC_021163.1	Ca_kabuli_chr04	8264881	AA	GG	1946787361
SNP_P4_38917_8264935	NC_021163.1	Ca_kabuli_chr04	8264935	GG	AA	1946787363
SNP_P4_38919_8265883	NC_021163.1	Ca_kabuli_chr04	8265883	TT	CC	1946787365
SNP_P4_38920_8267764	NC_021163.1	Ca_kabuli_chr04	8267764	CC	GG	1946787367
SNP_P4_38921_8267780	NC_021163.1	Ca_kabuli_chr04	8267780	GG	AA	1946787369
SNP_P4_38922_8267944	NC_021163.1	Ca_kabuli_chr04	8267944	GG	AA	1946787371
SNP_P4_38923_8268022	NC_021163.1	Ca_kabuli_chr04	8268022	CC	TT	1946787373
SNP_P4_38924_8268349	NC_021163.1	Ca_kabuli_chr04	8268349	GG	AA	1946787375
SNP_P4_38925_8269748	NC_021163.1	Ca_kabuli_chr04	8269748	GG	AA	1946787377

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_38929_8274073	NC_021163.1	Ca_kabuli_chr04	8274073	TT	GG	1946787383
SNP_P4_38930_8274301	NC_021163.1	Ca_kabuli_chr04	8274301	GG	AA	1946787385
SNP_P4_38931_8275460	NC_021163.1	Ca_kabuli_chr04	8275460	CC	AA	1946787387
SNP_P4_38933_8277565	NC_021163.1	Ca_kabuli_chr04	8277565	AA	TT	1946787389
SNP_P4_38934_8280942	NC_021163.1	Ca_kabuli_chr04	8280942	CC	TT	1946787391
SNP_P4_38937_8281061	NC_021163.1	Ca_kabuli_chr04	8281061	CC	AA	1946787393
SNP_P4_38938_8281496	NC_021163.1	Ca_kabuli_chr04	8281496	AA	CC	1946787395
SNP_P4_38941_8289302	NC_021163.1	Ca_kabuli_chr04	8289302	GG	AA	1946787397
SNP_P4_38942_8290934	NC_021163.1	Ca_kabuli_chr04	8290934	AA	GG	1946787399
SNP_P4_38943_8291577	NC_021163.1	Ca_kabuli_chr04	8291577	GG	CC	1946787401
SNP_P4_38944_8291920	NC_021163.1	Ca_kabuli_chr04	8291920	AA	GG	1946787404
SNP_P4_38945_8292716	NC_021163.1	Ca_kabuli_chr04	8292716	GG	AA	1946787406
SNP_P4_38946_8292722	NC_021163.1	Ca_kabuli_chr04	8292722	TT	GG	1946787408
SNP_P4_38948_8293646	NC_021163.1	Ca_kabuli_chr04	8293646	CC	TT	1946787410
SNP_P4_38949_8293699	NC_021163.1	Ca_kabuli_chr04	8293699	TT	CC	1946787412
SNP_P4_38950_8293708	NC_021163.1	Ca_kabuli_chr04	8293708	TT	CC	1946787414
SNP_P4_38951_8294699	NC_021163.1	Ca_kabuli_chr04	8294699	GG	AA	1946787416
SNP_P4_38952_8294918	NC_021163.1	Ca_kabuli_chr04	8294918	CC	TT	1946787418
SNP_P4_38953_8294922	NC_021163.1	Ca_kabuli_chr04	8294922	TT	CC	1946787420
SNP_P4_38954_8294958	NC_021163.1	Ca_kabuli_chr04	8294958	TT	GG	1946787423
SNP_P4_38955_8295342	NC_021163.1	Ca_kabuli_chr04	8295342	TT	CC	1946787425
SNP_P4_38956_8295398	NC_021163.1	Ca_kabuli_chr04	8295398	TT	CC	1946787427
SNP_P4_38957_8295639	NC_021163.1	Ca_kabuli_chr04	8295639	AA	TT	1946787429
SNP_P4_38958_8296019	NC_021163.1	Ca_kabuli_chr04	8296019	GG	AA	1946787431
SNP_P4_38959_8297167	NC_021163.1	Ca_kabuli_chr04	8297167	TT	CC	1946787433
SNP_P4_38960_8297206	NC_021163.1	Ca_kabuli_chr04	8297206	AA	GG	1946787435
SNP_P4_38962_8297664	NC_021163.1	Ca_kabuli_chr04	8297664	AA	TT	1946787437
SNP_P4_38963_8297665	NC_021163.1	Ca_kabuli_chr04	8297665	TT	GG	1946787439
SNP_P4_38964_8297877	NC_021163.1	Ca_kabuli_chr04	8297877	AA	GG	1946787441
SNP_P4_38965_8298863	NC_021163.1	Ca_kabuli_chr04	8298863	CC	GG	1946787443
SNP_P4_38966_8299060	NC_021163.1	Ca_kabuli_chr04	8299060	CC	TT	1946787445
SNP_P4_38967_8300952	NC_021163.1	Ca_kabuli_chr04	8300952	AA	GG	1946787447
SNP_P4_38968_8301048	NC_021163.1	Ca_kabuli_chr04	8301048	TT	CC	1946787449
SNP_P4_38969_8301152	NC_021163.1	Ca_kabuli_chr04	8301152	AA	GG	1946787450
SNP_P4_38970_8301158	NC_021163.1	Ca_kabuli_chr04	8301158	AA	GG	1946787452
SNP_P4_38971_8301220	NC_021163.1	Ca_kabuli_chr04	8301220	GG	AA	1946787454
SNP_P4_38972_8301265	NC_021163.1	Ca_kabuli_chr04	8301265	GG	TT	1946787456
SNP_P4_38973_8301270	NC_021163.1	Ca_kabuli_chr04	8301270	AA	GG	1946787458
SNP_P4_38976_8301673	NC_021163.1	Ca_kabuli_chr04	8301673	AA	TT	1946787460
SNP_P4_38977_8301754	NC_021163.1	Ca_kabuli_chr04	8301754	GG	AA	1946787462

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_38981_8307763	NC_021163.1	Ca_kabuli_chr04	8307763	TT	AA	1946787466
SNP_P4_38984_8308861	NC_021163.1	Ca_kabuli_chr04	8308861	AA	TT	1946787468
SNP_P4_38985_8308913	NC_021163.1	Ca_kabuli_chr04	8308913	GG	AA	1946787470
SNP_P4_38986_8309060	NC_021163.1	Ca_kabuli_chr04	8309060	AA	TT	1946787472
SNP_P4_38987_8309149	NC_021163.1	Ca_kabuli_chr04	8309149	AA	GG	1946787474
SNP_P4_38989_8309253	NC_021163.1	Ca_kabuli_chr04	8309253	CC	TT	1946787476
SNP_P4_38991_8309530	NC_021163.1	Ca_kabuli_chr04	8309530	AA	TT	1946787477
SNP_P4_38992_8310588	NC_021163.1	Ca_kabuli_chr04	8310588	GG	CC	1946787479
SNP_P4_38993_8310609	NC_021163.1	Ca_kabuli_chr04	8310609	CC	GG	1946787481
SNP_P4_38994_8311455	NC_021163.1	Ca_kabuli_chr04	8311455	GG	AA	1946787483
SNP_P4_38995_8311757	NC_021163.1	Ca_kabuli_chr04	8311757	TT	AA	1946787485
SNP_P4_38997_8311826	NC_021163.1	Ca_kabuli_chr04	8311826	CC	TT	1946787487
SNP_P4_38999_8311857	NC_021163.1	Ca_kabuli_chr04	8311857	CC	TT	1946787489
SNP_P4_39000_8312002	NC_021163.1	Ca_kabuli_chr04	8312002	CC	TT	1946787491
SNP_P4_39001_8312333	NC_021163.1	Ca_kabuli_chr04	8312333	GG	TT	1946787493
SNP_P4_39002_8312348	NC_021163.1	Ca_kabuli_chr04	8312348	TT	CC	1946787494
SNP_P4_39003_8312378	NC_021163.1	Ca_kabuli_chr04	8312378	AA	GG	1946787496
SNP_P4_39004_8312380	NC_021163.1	Ca_kabuli_chr04	8312380	CC	TT	1946787498
SNP_P4_39005_8312413	NC_021163.1	Ca_kabuli_chr04	8312413	CC	AA	1946787500
SNP_P4_39006_8312415	NC_021163.1	Ca_kabuli_chr04	8312415	TT	CC	1946787502
SNP_P4_39009_8313845	NC_021163.1	Ca_kabuli_chr04	8313845	GG	CC	1946787504
SNP_P4_39010_8313919	NC_021163.1	Ca_kabuli_chr04	8313919	AA	GG	1946787506
SNP_P4_39011_8313926	NC_021163.1	Ca_kabuli_chr04	8313926	CC	TT	1946787508
SNP_P4_39012_8314180	NC_021163.1	Ca_kabuli_chr04	8314180	TT	CC	1946787510
SNP_P4_39013_8314215	NC_021163.1	Ca_kabuli_chr04	8314215	TT	CC	1946787512
SNP_P4_39014_8314901	NC_021163.1	Ca_kabuli_chr04	8314901	CC	TT	1946787514
SNP_P4_39015_8315675	NC_021163.1	Ca_kabuli_chr04	8315675	AA	GG	1946787516
SNP_P4_39016_8315841	NC_021163.1	Ca_kabuli_chr04	8315841	TT	CC	1946787518
SNP_P4_39017_8315864	NC_021163.1	Ca_kabuli_chr04	8315864	CC	TT	1946787520
SNP_P4_39018_8315895	NC_021163.1	Ca_kabuli_chr04	8315895	GG	AA	1946787522
SNP_P4_39021_8316986	NC_021163.1	Ca_kabuli_chr04	8316986	AA	TT	1946787524
SNP_P4_39022_8317074	NC_021163.1	Ca_kabuli_chr04	8317074	AA	GG	1946787526
SNP_P4_39025_8320331	NC_021163.1	Ca_kabuli_chr04	8320331	CC	TT	1946787528
SNP_P4_39026_8320586	NC_021163.1	Ca_kabuli_chr04	8320586	TT	GG	1946787530
SNP_P4_39027_8320596	NC_021163.1	Ca_kabuli_chr04	8320596	GG	AA	1946787532
SNP_P4_39028_8320650	NC_021163.1	Ca_kabuli_chr04	8320650	AA	TT	1946787534
SNP_P4_39030_8320876	NC_021163.1	Ca_kabuli_chr04	8320876	AA	GG	1946787536
SNP_P4_39032_8321112	NC_021163.1	Ca_kabuli_chr04	8321112	GG	AA	1946787538
SNP_P4_39033_8321121	NC_021163.1	Ca_kabuli_chr04	8321121	TT	CC	1946787540
SNP_P4_39034_8321625	NC_021163.1	Ca_kabuli_chr04	8321625	AA	GG	1946787542
SNP_P4_39035_8321628	NC_021163.1	Ca_kabuli_chr04	8321628	AA	GG	1946787544

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_39037_8321651	NC_021163.1	Ca_kabuli_chr04	8321651	GG	AA	1946787549
SNP_P4_39038_8321714	NC_021163.1	Ca_kabuli_chr04	8321714	GG	AA	1946787551
SNP_P4_39039_8321721	NC_021163.1	Ca_kabuli_chr04	8321721	GG	AA	1946787553
SNP_P4_39040_8321873	NC_021163.1	Ca_kabuli_chr04	8321873	AA	GG	1946787555
SNP_P4_39042_8325860	NC_021163.1	Ca_kabuli_chr04	8325860	GG	AA	1946787557
SNP_P4_39043_8325896	NC_021163.1	Ca_kabuli_chr04	8325896	CC	TT	1946787559
SNP_P4_39044_8325909	NC_021163.1	Ca_kabuli_chr04	8325909	TT	CC	1946787561
SNP_P4_39045_8325925	NC_021163.1	Ca_kabuli_chr04	8325925	TT	CC	1946787563
SNP_P4_39046_8325930	NC_021163.1	Ca_kabuli_chr04	8325930	TT	AA	1946787565
SNP_P4_39047_8325936	NC_021163.1	Ca_kabuli_chr04	8325936	GG	AA	1946787567
SNP_P4_39049_8326118	NC_021163.1	Ca_kabuli_chr04	8326118	AA	TT	1946787569
SNP_P4_39050_8326125	NC_021163.1	Ca_kabuli_chr04	8326125	GG	AA	1946787571
SNP_P4_39052_8328221	NC_021163.1	Ca_kabuli_chr04	8328221	AA	GG	1946787573
SNP_P4_39053_8329365	NC_021163.1	Ca_kabuli_chr04	8329365	AA	TT	1946787575
SNP_P4_39054_8331244	NC_021163.1	Ca_kabuli_chr04	8331244	CC	TT	1946787577
SNP_P4_39055_8332120	NC_021163.1	Ca_kabuli_chr04	8332120	GG	CC	1946787579
SNP_P4_39056_8332383	NC_021163.1	Ca_kabuli_chr04	8332383	TT	CC	1946787582
SNP_P4_39059_8333148	NC_021163.1	Ca_kabuli_chr04	8333148	GG	AA	1946787584
SNP_P4_39061_8334028	NC_021163.1	Ca_kabuli_chr04	8334028	TT	CC	1946787586
SNP_P4_39062_8334196	NC_021163.1	Ca_kabuli_chr04	8334196	TT	CC	1946787588
SNP_P4_39063_8334201	NC_021163.1	Ca_kabuli_chr04	8334201	TT	CC	1946787590
SNP_P4_39064_8334447	NC_021163.1	Ca_kabuli_chr04	8334447	TT	CC	1946787592
SNP_P4_39065_8334692	NC_021163.1	Ca_kabuli_chr04	8334692	CC	TT	1946787594
SNP_P4_39066_8334772	NC_021163.1	Ca_kabuli_chr04	8334772	GG	AA	1946787596
SNP_P4_39067_8335011	NC_021163.1	Ca_kabuli_chr04	8335011	TT	CC	1946787598
SNP_P4_39069_8338996	NC_021163.1	Ca_kabuli_chr04	8338996	TT	CC	1946787600
SNP_P4_39071_8339749	NC_021163.1	Ca_kabuli_chr04	8339749	AA	TT	1946787602
SNP_P4_39072_8340014	NC_021163.1	Ca_kabuli_chr04	8340014	AA	TT	1946787604
SNP_P4_39074_8341552	NC_021163.1	Ca_kabuli_chr04	8341552	CC	GG	1946787606
SNP_P4_39075_8341623	NC_021163.1	Ca_kabuli_chr04	8341623	GG	AA	1946787608
SNP_P4_39076_8341665	NC_021163.1	Ca_kabuli_chr04	8341665	GG	AA	1946787610
SNP_P4_39077_8341742	NC_021163.1	Ca_kabuli_chr04	8341742	GG	TT	1946787612
SNP_P4_39078_8341958	NC_021163.1	Ca_kabuli_chr04	8341958	TT	GG	1946787614
SNP_P4_39080_8342318	NC_021163.1	Ca_kabuli_chr04	8342318	AA	TT	1946787616
SNP_P4_39082_8342473	NC_021163.1	Ca_kabuli_chr04	8342473	CC	AA	1946787618
SNP_P4_39084_8343100	NC_021163.1	Ca_kabuli_chr04	8343100	AA	CC	1946787620
SNP_P4_39085_8343102	NC_021163.1	Ca_kabuli_chr04	8343102	AA	TT	1946787622
SNP_P4_39086_8343440	NC_021163.1	Ca_kabuli_chr04	8343440	CC	AA	1946787624
SNP_P4_39087_8343553	NC_021163.1	Ca_kabuli_chr04	8343553	CC	GG	1946787626
SNP_P4_39088_8343691	NC_021163.1	Ca_kabuli_chr04	8343691	CC	TT	1946787628
SNP_P4_39089_8343725	NC_021163.1	Ca_kabuli_chr04	8343725	AA	GG	1946787630

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_39091_8343825	NC_021163.1	Ca_kabuli_chr04	8343825	TT	CC	1946787634
SNP_P4_39092_8343827	NC_021163.1	Ca_kabuli_chr04	8343827	TT	CC	1946787636
SNP_P4_39093_8343839	NC_021163.1	Ca_kabuli_chr04	8343839	AA	TT	1946787638
SNP_P4_39094_8343865	NC_021163.1	Ca_kabuli_chr04	8343865	TT	AA	1946787640
SNP_P4_39095_8343936	NC_021163.1	Ca_kabuli_chr04	8343936	GG	CC	1946787642
SNP_P4_39097_8344076	NC_021163.1	Ca_kabuli_chr04	8344076	CC	TT	1946787644
SNP_P4_39098_8344078	NC_021163.1	Ca_kabuli_chr04	8344078	GG	AA	1946787646
SNP_P4_39099_8344508	NC_021163.1	Ca_kabuli_chr04	8344508	GG	CC	1946787648
SNP_P4_39101_8344624	NC_021163.1	Ca_kabuli_chr04	8344624	CC	TT	1946787650
SNP_P4_39102_8344625	NC_021163.1	Ca_kabuli_chr04	8344625	AA	GG	1946787652
SNP_P4_39104_8348297	NC_021163.1	Ca_kabuli_chr04	8348297	AA	GG	1946787654
SNP_P4_39105_8348298	NC_021163.1	Ca_kabuli_chr04	8348298	TT	CC	1946787656
SNP_P4_39106_8349069	NC_021163.1	Ca_kabuli_chr04	8349069	GG	CC	1946787658
SNP_P4_39107_8349286	NC_021163.1	Ca_kabuli_chr04	8349286	TT	GG	1946787660
SNP_P4_39108_8349356	NC_021163.1	Ca_kabuli_chr04	8349356	AA	CC	1946787662
SNP_P4_39109_8349368	NC_021163.1	Ca_kabuli_chr04	8349368	GG	AA	1946787664
SNP_P4_39110_8349502	NC_021163.1	Ca_kabuli_chr04	8349502	GG	CC	1946787666
SNP_P4_39111_8350889	NC_021163.1	Ca_kabuli_chr04	8350889	GG	TT	1946787668
SNP_P4_39112_8350993	NC_021163.1	Ca_kabuli_chr04	8350993	CC	TT	1946787671
SNP_P4_39113_8351064	NC_021163.1	Ca_kabuli_chr04	8351064	TT	CC	1946787673
SNP_P4_39115_8351218	NC_021163.1	Ca_kabuli_chr04	8351218	GG	CC	1946787675
SNP_P4_39116_8351252	NC_021163.1	Ca_kabuli_chr04	8351252	GG	AA	1946787677
SNP_P4_39117_8351278	NC_021163.1	Ca_kabuli_chr04	8351278	AA	GG	1946787679
SNP_P4_39118_8352377	NC_021163.1	Ca_kabuli_chr04	8352377	GG	AA	1946787681
SNP_P4_39119_8352414	NC_021163.1	Ca_kabuli_chr04	8352414	AA	TT	1946787683
SNP_P4_39120_8352685	NC_021163.1	Ca_kabuli_chr04	8352685	CC	TT	1946787685
SNP_P4_39121_8352790	NC_021163.1	Ca_kabuli_chr04	8352790	CC	TT	1946787687
SNP_P4_39122_8353089	NC_021163.1	Ca_kabuli_chr04	8353089	TT	CC	1946787689
SNP_P4_39123_8353090	NC_021163.1	Ca_kabuli_chr04	8353090	GG	AA	1946787691
SNP_P4_39124_8353096	NC_021163.1	Ca_kabuli_chr04	8353096	GG	AA	1946787693
SNP_P4_39125_8353137	NC_021163.1	Ca_kabuli_chr04	8353137	TT	CC	1946787695
SNP_P4_39126_8353138	NC_021163.1	Ca_kabuli_chr04	8353138	GG	AA	1946787697
SNP_P4_39127_8353183	NC_021163.1	Ca_kabuli_chr04	8353183	TT	CC	1946787699
SNP_P4_39129_8353225	NC_021163.1	Ca_kabuli_chr04	8353225	CC	TT	1946787701
SNP_P4_39130_8353238	NC_021163.1	Ca_kabuli_chr04	8353238	TT	CC	1946787703
SNP_P4_39131_8353246	NC_021163.1	Ca_kabuli_chr04	8353246	CC	TT	1946787705
SNP_P4_39132_8353253	NC_021163.1	Ca_kabuli_chr04	8353253	AA	GG	1946787707
SNP_P4_39133_8353262	NC_021163.1	Ca_kabuli_chr04	8353262	AA	CC	1946787709
SNP_P4_39134_8353284	NC_021163.1	Ca_kabuli_chr04	8353284	GG	AA	1946787711
SNP_P4_39135_8353904	NC_021163.1	Ca_kabuli_chr04	8353904	CC	TT	1946787713
SNP_P4_39136_8354683	NC_021163.1	Ca_kabuli_chr04	8354683	TT	GG	1946787715

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_39139_8354854	NC_021163.1	Ca_kabuli_chr04	8354854	TT	CC	1946787721
SNP_P4_39142_8355706	NC_021163.1	Ca_kabuli_chr04	8355706	AA	GG	1946787723
SNP_P4_39143_8356751	NC_021163.1	Ca_kabuli_chr04	8356751	CC	TT	1946787725
SNP_P4_39145_8357556	NC_021163.1	Ca_kabuli_chr04	8357556	GG	AA	1946787727
SNP_P4_39146_8357562	NC_021163.1	Ca_kabuli_chr04	8357562	CC	AA	1946787729
SNP_P4_39147_8357874	NC_021163.1	Ca_kabuli_chr04	8357874	AA	GG	1946787731
SNP_P4_39148_8359190	NC_021163.1	Ca_kabuli_chr04	8359190	AA	GG	1946787732
SNP_P4_39149_8360408	NC_021163.1	Ca_kabuli_chr04	8360408	GG	AA	1946787734
SNP_P4_39150_8361688	NC_021163.1	Ca_kabuli_chr04	8361688	CC	GG	1946787736
SNP_P4_39151_8361689	NC_021163.1	Ca_kabuli_chr04	8361689	AA	GG	1946787738
SNP_P4_39152_8362617	NC_021163.1	Ca_kabuli_chr04	8362617	TT	GG	1946787740
SNP_P4_39154_8362886	NC_021163.1	Ca_kabuli_chr04	8362886	TT	CC	1946787742
SNP_P4_39155_8362921	NC_021163.1	Ca_kabuli_chr04	8362921	CC	GG	1946787744
SNP_P4_39156_8362922	NC_021163.1	Ca_kabuli_chr04	8362922	AA	TT	1946787746
SNP_P4_39157_8363117	NC_021163.1	Ca_kabuli_chr04	8363117	TT	GG	1946787748
SNP_P4_39158_8363131	NC_021163.1	Ca_kabuli_chr04	8363131	GG	AA	1946787750
SNP_P4_39159_8363147	NC_021163.1	Ca_kabuli_chr04	8363147	CC	TT	1946787752
SNP_P4_39160_8363514	NC_021163.1	Ca_kabuli_chr04	8363514	AA	GG	1946787754
SNP_P4_39161_8363563	NC_021163.1	Ca_kabuli_chr04	8363563	CC	TT	1946787756
SNP_P4_39162_8363579	NC_021163.1	Ca_kabuli_chr04	8363579	CC	AA	1946787758
SNP_P4_39163_8363583	NC_021163.1	Ca_kabuli_chr04	8363583	CC	TT	1946787760
SNP_P4_39165_8365069	NC_021163.1	Ca_kabuli_chr04	8365069	TT	GG	1946787762
SNP_P4_39166_8367094	NC_021163.1	Ca_kabuli_chr04	8367094	GG	AA	1946787764
SNP_P4_39167_8370798	NC_021163.1	Ca_kabuli_chr04	8370798	AA	CC	1946787766
SNP_P4_39168_8372267	NC_021163.1	Ca_kabuli_chr04	8372267	AA	GG	1946787768
SNP_P4_39169_8372302	NC_021163.1	Ca_kabuli_chr04	8372302	TT	CC	1946787770
SNP_P4_39170_8372320	NC_021163.1	Ca_kabuli_chr04	8372320	TT	CC	1946787772
SNP_P4_39171_8372390	NC_021163.1	Ca_kabuli_chr04	8372390	TT	CC	1946787774
SNP_P4_39172_8372392	NC_021163.1	Ca_kabuli_chr04	8372392	CC	TT	1946787776
SNP_P4_39173_8372406	NC_021163.1	Ca_kabuli_chr04	8372406	TT	CC	1946787778
SNP_P4_39174_8372562	NC_021163.1	Ca_kabuli_chr04	8372562	AA	GG	1946787780
SNP_P4_39175_8372930	NC_021163.1	Ca_kabuli_chr04	8372930	GG	CC	1946787783
SNP_P4_39176_8373255	NC_021163.1	Ca_kabuli_chr04	8373255	AA	GG	1946787785
SNP_P4_39177_8373259	NC_021163.1	Ca_kabuli_chr04	8373259	TT	CC	1946787787
SNP_P4_39178_8373269	NC_021163.1	Ca_kabuli_chr04	8373269	TT	CC	1946787789
SNP_P4_39179_8373288	NC_021163.1	Ca_kabuli_chr04	8373288	GG	AA	1946787791
SNP_P4_39180_8373346	NC_021163.1	Ca_kabuli_chr04	8373346	AA	TT	1946787793
SNP_P4_39181_8373653	NC_021163.1	Ca_kabuli_chr04	8373653	TT	AA	1946787795
SNP_P4_39182_8375490	NC_021163.1	Ca_kabuli_chr04	8375490	TT	CC	1946787797
SNP_P4_39183_8375498	NC_021163.1	Ca_kabuli_chr04	8375498	AA	TT	1946787799

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_39186_8376216	NC_021163.1	Ca_kabuli_chr04	8376216	GG	AA	1946787803
SNP_P4_39188_8376575	NC_021163.1	Ca_kabuli_chr04	8376575	AA	GG	1946787805
SNP_P4_39190_8376737	NC_021163.1	Ca_kabuli_chr04	8376737	AA	TT	1946787807
SNP_P4_39191_8376774	NC_021163.1	Ca_kabuli_chr04	8376774	TT	CC	1946787809
SNP_P4_39193_8377463	NC_021163.1	Ca_kabuli_chr04	8377463	GG	AA	1946787811
SNP_P4_39195_8377506	NC_021163.1	Ca_kabuli_chr04	8377506	TT	GG	1946787813
SNP_P4_39196_8377533	NC_021163.1	Ca_kabuli_chr04	8377533	TT	CC	1946787815
SNP_P4_39198_8377560	NC_021163.1	Ca_kabuli_chr04	8377560	TT	CC	1946787817
SNP_P4_39200_8377654	NC_021163.1	Ca_kabuli_chr04	8377654	CC	TT	1946787819
SNP_P4_39201_8377718	NC_021163.1	Ca_kabuli_chr04	8377718	AA	CC	1946787821
SNP_P4_39202_8381444	NC_021163.1	Ca_kabuli_chr04	8381444	TT	CC	1946787823
SNP_P4_39204_8381958	NC_021163.1	Ca_kabuli_chr04	8381958	GG	AA	1946787825
SNP_P4_39205_8382312	NC_021163.1	Ca_kabuli_chr04	8382312	GG	CC	1946787827
SNP_P4_39206_8382508	NC_021163.1	Ca_kabuli_chr04	8382508	CC	TT	1946787829
SNP_P4_39207_8386680	NC_021163.1	Ca_kabuli_chr04	8386680	AA	TT	1946787831
SNP_P4_39209_8387960	NC_021163.1	Ca_kabuli_chr04	8387960	CC	TT	1946787833
SNP_P4_39210_8388301	NC_021163.1	Ca_kabuli_chr04	8388301	TT	AA	1946787835
SNP_P4_39211_8388902	NC_021163.1	Ca_kabuli_chr04	8388902	GG	AA	1946787837
SNP_P4_39212_8389207	NC_021163.1	Ca_kabuli_chr04	8389207	AA	GG	1946787839
SNP_P4_39213_8389398	NC_021163.1	Ca_kabuli_chr04	8389398	AA	TT	1946787842
SNP_P4_39214_8389543	NC_021163.1	Ca_kabuli_chr04	8389543	AA	GG	1946787844
SNP_P4_39215_8391467	NC_021163.1	Ca_kabuli_chr04	8391467	CC	GG	1946787846
SNP_P4_39216_8391472	NC_021163.1	Ca_kabuli_chr04	8391472	AA	GG	1946787848
SNP_P4_39217_8392711	NC_021163.1	Ca_kabuli_chr04	8392711	TT	CC	1946787850
SNP_P4_39218_8395126	NC_021163.1	Ca_kabuli_chr04	8395126	AA	TT	1946787852
SNP_P4_39219_8395216	NC_021163.1	Ca_kabuli_chr04	8395216	GG	TT	1946787854
SNP_P4_39220_8395478	NC_021163.1	Ca_kabuli_chr04	8395478	AA	CC	1946787857
SNP_P4_39221_8396214	NC_021163.1	Ca_kabuli_chr04	8396214	AA	GG	1946787859
SNP_P4_39223_8396362	NC_021163.1	Ca_kabuli_chr04	8396362	GG	AA	1946787861
SNP_P4_39224_8396384	NC_021163.1	Ca_kabuli_chr04	8396384	AA	GG	1946787863
SNP_P4_39225_8397252	NC_021163.1	Ca_kabuli_chr04	8397252	CC	GG	1946787865
SNP_P4_39226_8397257	NC_021163.1	Ca_kabuli_chr04	8397257	AA	GG	1946787867
SNP_P4_39227_8397998	NC_021163.1	Ca_kabuli_chr04	8397998	AA	TT	1946787869
SNP_P4_39228_8399391	NC_021163.1	Ca_kabuli_chr04	8399391	AA	TT	1946787871
SNP_P4_39229_8399394	NC_021163.1	Ca_kabuli_chr04	8399394	AA	CC	1946787873
SNP_P4_39231_8401248	NC_021163.1	Ca_kabuli_chr04	8401248	AA	TT	1946787875
SNP_P4_39232_8402175	NC_021163.1	Ca_kabuli_chr04	8402175	TT	CC	1946787877
SNP_P4_39233_8402274	NC_021163.1	Ca_kabuli_chr04	8402274	GG	AA	1946787879
SNP_P4_39234_8402434	NC_021163.1	Ca_kabuli_chr04	8402434	GG	CC	1946787881
SNP_P4_39235_8402782	NC_021163.1	Ca_kabuli_chr04	8402782	AA	CC	1946787883
SNP_P4_39236_8405267	NC_021163.1	Ca_kabuli_chr04	8405267	TT	AA	1946787885

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_39239_8407938	NC_021163.1	Ca_kabuli_chr04	8407938	AA	GG	1946787889
SNP_P4_39240_8408301	NC_021163.1	Ca_kabuli_chr04	8408301	TT	CC	1946787891
SNP_P4_39241_8408915	NC_021163.1	Ca_kabuli_chr04	8408915	CC	TT	1946787893
SNP_P4_39242_8409755	NC_021163.1	Ca_kabuli_chr04	8409755	CC	TT	1946787895
SNP_P4_39243_8409793	NC_021163.1	Ca_kabuli_chr04	8409793	CC	TT	1946787897
SNP_P4_39244_8409841	NC_021163.1	Ca_kabuli_chr04	8409841	GG	AA	1946787899
SNP_P4_39246_8410147	NC_021163.1	Ca_kabuli_chr04	8410147	TT	GG	1946787901
SNP_P4_39248_8410877	NC_021163.1	Ca_kabuli_chr04	8410877	TT	AA	1946787903
SNP_P4_39249_8410885	NC_021163.1	Ca_kabuli_chr04	8410885	CC	AA	1946787905
SNP_P4_39250_8411154	NC_021163.1	Ca_kabuli_chr04	8411154	AA	GG	1946787907
SNP_P4_39251_8411156	NC_021163.1	Ca_kabuli_chr04	8411156	AA	GG	1946787909
SNP_P4_39252_8411177	NC_021163.1	Ca_kabuli_chr04	8411177	AA	GG	1946787911
SNP_P4_39253_8411392	NC_021163.1	Ca_kabuli_chr04	8411392	TT	CC	1946787914
SNP_P4_39254_8411493	NC_021163.1	Ca_kabuli_chr04	8411493	GG	AA	1946787916
SNP_P4_39255_8411501	NC_021163.1	Ca_kabuli_chr04	8411501	TT	GG	1946787918
SNP_P4_39256_8411721	NC_021163.1	Ca_kabuli_chr04	8411721	CC	TT	1946787920
SNP_P4_39257_8411732	NC_021163.1	Ca_kabuli_chr04	8411732	CC	TT	1946787922
SNP_P4_39258_8411768	NC_021163.1	Ca_kabuli_chr04	8411768	AA	GG	1946787925
SNP_P4_39259_8411769	NC_021163.1	Ca_kabuli_chr04	8411769	GG	TT	1946787927
SNP_P4_39260_8411778	NC_021163.1	Ca_kabuli_chr04	8411778	CC	TT	1946787929
SNP_P4_39261_8411789	NC_021163.1	Ca_kabuli_chr04	8411789	TT	GG	1946787931
SNP_P4_39262_8411798	NC_021163.1	Ca_kabuli_chr04	8411798	GG	AA	1946787933
SNP_P4_39263_8412045	NC_021163.1	Ca_kabuli_chr04	8412045	GG	AA	1946787935
SNP_P4_39264_8412046	NC_021163.1	Ca_kabuli_chr04	8412046	AA	GG	1946787937
SNP_P4_39265_8412066	NC_021163.1	Ca_kabuli_chr04	8412066	CC	TT	1946787939
SNP_P4_39266_8412641	NC_021163.1	Ca_kabuli_chr04	8412641	TT	CC	1946787941
SNP_P4_39268_8412687	NC_021163.1	Ca_kabuli_chr04	8412687	AA	GG	1946787943
SNP_P4_39269_8412700	NC_021163.1	Ca_kabuli_chr04	8412700	CC	TT	1946787945
SNP_P4_39270_8412717	NC_021163.1	Ca_kabuli_chr04	8412717	AA	GG	1946787947
SNP_P4_39271_8413734	NC_021163.1	Ca_kabuli_chr04	8413734	CC	AA	1946787949
SNP_P4_39273_8413770	NC_021163.1	Ca_kabuli_chr04	8413770	CC	TT	1946787951
SNP_P4_39274_8413835	NC_021163.1	Ca_kabuli_chr04	8413835	TT	CC	1946787953
SNP_P4_39275_8413838	NC_021163.1	Ca_kabuli_chr04	8413838	GG	AA	1946787955
SNP_P4_39276_8413893	NC_021163.1	Ca_kabuli_chr04	8413893	GG	AA	1946787957
SNP_P4_39277_8414157	NC_021163.1	Ca_kabuli_chr04	8414157	TT	CC	1946787959
SNP_P4_39278_8414160	NC_021163.1	Ca_kabuli_chr04	8414160	GG	AA	1946787961
SNP_P4_39281_8415280	NC_021163.1	Ca_kabuli_chr04	8415280	CC	GG	1946787963
SNP_P4_39282_8415337	NC_021163.1	Ca_kabuli_chr04	8415337	AA	GG	1946787966
SNP_P4_39283_8416655	NC_021163.1	Ca_kabuli_chr04	8416655	CC	TT	1946787968
SNP_P4_39284_8416904	NC_021163.1	Ca_kabuli_chr04	8416904	CC	AA	1946787970
SNP_P4_39285_8416958	NC_021163.1	Ca_kabuli_chr04	8416958	GG	AA	1946787972

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_39288_8418831	NC_021163.1	Ca_kabuli_chr04	8418831	CC	GG	1946787976
SNP_P4_39289_8418925	NC_021163.1	Ca_kabuli_chr04	8418925	TT	CC	1946787978
SNP_P4_39290_8419447	NC_021163.1	Ca_kabuli_chr04	8419447	AA	TT	1946787980
SNP_P4_39291_8420532	NC_021163.1	Ca_kabuli_chr04	8420532	AA	GG	1946787982
SNP_P4_39292_8420533	NC_021163.1	Ca_kabuli_chr04	8420533	TT	CC	1946787984
SNP_P4_39293_8420576	NC_021163.1	Ca_kabuli_chr04	8420576	AA	GG	1946787986
SNP_P4_39294_8421511	NC_021163.1	Ca_kabuli_chr04	8421511	GG	TT	1946787988
SNP_P4_39295_8421574	NC_021163.1	Ca_kabuli_chr04	8421574	TT	CC	1946787990
SNP_P4_39296_8421948	NC_021163.1	Ca_kabuli_chr04	8421948	CC	AA	1946787992
SNP_P4_39297_8422245	NC_021163.1	Ca_kabuli_chr04	8422245	TT	CC	1946787994
SNP_P4_39298_8422257	NC_021163.1	Ca_kabuli_chr04	8422257	GG	AA	1946787997
SNP_P4_39299_8422438	NC_021163.1	Ca_kabuli_chr04	8422438	GG	AA	1946787999
SNP_P4_39300_8422466	NC_021163.1	Ca_kabuli_chr04	8422466	GG	TT	1946788001
SNP_P4_39301_8422474	NC_021163.1	Ca_kabuli_chr04	8422474	GG	AA	1946788003
SNP_P4_39302_8425301	NC_021163.1	Ca_kabuli_chr04	8425301	CC	TT	1946788005
SNP_P4_39303_8425321	NC_021163.1	Ca_kabuli_chr04	8425321	GG	AA	1946788007
SNP_P4_39304_8425322	NC_021163.1	Ca_kabuli_chr04	8425322	AA	TT	1946788009
SNP_P4_39305_8425369	NC_021163.1	Ca_kabuli_chr04	8425369	TT	AA	1946788011
SNP_P4_39306_8425393	NC_021163.1	Ca_kabuli_chr04	8425393	TT	CC	1946788013
SNP_P4_39307_8427439	NC_021163.1	Ca_kabuli_chr04	8427439	GG	AA	1946788015
SNP_P4_39308_8427474	NC_021163.1	Ca_kabuli_chr04	8427474	GG	TT	1946788018
SNP_P4_39309_8427496	NC_021163.1	Ca_kabuli_chr04	8427496	TT	AA	1946788020
SNP_P4_39310_8429279	NC_021163.1	Ca_kabuli_chr04	8429279	TT	AA	1946788022
SNP_P4_39311_8429318	NC_021163.1	Ca_kabuli_chr04	8429318	GG	AA	1946788024
SNP_P4_39312_8430016	NC_021163.1	Ca_kabuli_chr04	8430016	GG	AA	1946788026
SNP_P4_39314_8432445	NC_021163.1	Ca_kabuli_chr04	8432445	GG	AA	1946788029
SNP_P4_39315_8432481	NC_021163.1	Ca_kabuli_chr04	8432481	TT	CC	1946788031
SNP_P4_39317_8436961	NC_021163.1	Ca_kabuli_chr04	8436961	CC	GG	1946788033
SNP_P4_39319_8439522	NC_021163.1	Ca_kabuli_chr04	8439522	TT	CC	1946788034
SNP_P4_39321_8444559	NC_021163.1	Ca_kabuli_chr04	8444559	CC	TT	1946788036
SNP_P4_39322_8446349	NC_021163.1	Ca_kabuli_chr04	8446349	GG	CC	1946788038
SNP_P4_39323_8447565	NC_021163.1	Ca_kabuli_chr04	8447565	AA	TT	1946788040
SNP_P4_39324_8449068	NC_021163.1	Ca_kabuli_chr04	8449068	TT	AA	1946788042
SNP_P4_39326_8449276	NC_021163.1	Ca_kabuli_chr04	8449276	TT	AA	1946788044
SNP_P4_39327_8449277	NC_021163.1	Ca_kabuli_chr04	8449277	TT	AA	1946788046
SNP_P4_39328_8449443	NC_021163.1	Ca_kabuli_chr04	8449443	AA	GG	1946788048
SNP_P4_39330_8449755	NC_021163.1	Ca_kabuli_chr04	8449755	TT	AA	1946788050
SNP_P4_39331_8449774	NC_021163.1	Ca_kabuli_chr04	8449774	GG	AA	1946788052
SNP_P4_39332_8449785	NC_021163.1	Ca_kabuli_chr04	8449785	AA	GG	1946788054
SNP_P4_39333_8450031	NC_021163.1	Ca_kabuli_chr04	8450031	GG	AA	1946788056
SNP_P4_39334_8454042	NC_021163.1	Ca_kabuli_chr04	8454042	GG	AA	1946788058

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_39337_8454184	NC_021163.1	Ca_kabuli_chr04	8454184	CC	GG	1946788062
SNP_P4_39338_8454198	NC_021163.1	Ca_kabuli_chr04	8454198	TT	CC	1946788064
SNP_P4_39339_8454218	NC_021163.1	Ca_kabuli_chr04	8454218	AA	GG	1946788066
SNP_P4_39340_8454243	NC_021163.1	Ca_kabuli_chr04	8454243	GG	AA	1946788068
SNP_P4_39341_8454276	NC_021163.1	Ca_kabuli_chr04	8454276	CC	AA	1946788070
SNP_P4_39342_8456393	NC_021163.1	Ca_kabuli_chr04	8456393	GG	AA	1946788073
SNP_P4_39343_8457845	NC_021163.1	Ca_kabuli_chr04	8457845	AA	GG	1946788075
SNP_P4_39344_8457947	NC_021163.1	Ca_kabuli_chr04	8457947	CC	GG	1946788077
SNP_P4_39345_8457966	NC_021163.1	Ca_kabuli_chr04	8457966	TT	CC	1946788079
SNP_P4_39346_8457980	NC_021163.1	Ca_kabuli_chr04	8457980	TT	AA	1946788081
SNP_P4_39348_8458242	NC_021163.1	Ca_kabuli_chr04	8458242	CC	TT	1946788083
SNP_P4_39349_8458284	NC_021163.1	Ca_kabuli_chr04	8458284	CC	TT	1946788085
SNP_P4_39350_8458305	NC_021163.1	Ca_kabuli_chr04	8458305	GG	AA	1946788087
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SNP_P4_39353_8458674	NC_021163.1	Ca_kabuli_chr04	8458674	TT	GG	1946788091
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SNP_P4_39355_8459387	NC_021163.1	Ca_kabuli_chr04	8459387	CC	TT	1946788095
SNP_P4_39356_8461236	NC_021163.1	Ca_kabuli_chr04	8461236	TT	CC	1946788097
SNP_P4_39357_8461238	NC_021163.1	Ca_kabuli_chr04	8461238	CC	TT	1946788099
SNP_P4_39358_8461242	NC_021163.1	Ca_kabuli_chr04	8461242	TT	CC	1946788101
SNP_P4_39359_8461243	NC_021163.1	Ca_kabuli_chr04	8461243	TT	CC	1946788103
SNP_P4_39360_8461639	NC_021163.1	Ca_kabuli_chr04	8461639	GG	AA	1946788105
SNP_P4_39361_8461765	NC_021163.1	Ca_kabuli_chr04	8461765	CC	TT	1946788107
SNP_P4_39362_8461791	NC_021163.1	Ca_kabuli_chr04	8461791	CC	TT	1946788109
SNP_P4_39363_8461806	NC_021163.1	Ca_kabuli_chr04	8461806	AA	GG	1946788111
SNP_P4_39364_8461820	NC_021163.1	Ca_kabuli_chr04	8461820	AA	GG	1946788113
SNP_P4_39365_8462069	NC_021163.1	Ca_kabuli_chr04	8462069	AA	TT	1946788115
SNP_P4_39366_8463548	NC_021163.1	Ca_kabuli_chr04	8463548	AA	GG	1946788117
SNP_P4_39367_8463724	NC_021163.1	Ca_kabuli_chr04	8463724	GG	AA	1946788119
SNP_P4_39368_8463766	NC_021163.1	Ca_kabuli_chr04	8463766	CC	TT	1946788121
SNP_P4_39369_8465126	NC_021163.1	Ca_kabuli_chr04	8465126	CC	TT	1946788123
SNP_P4_39370_8465150	NC_021163.1	Ca_kabuli_chr04	8465150	GG	AA	1946788125
SNP_P4_39371_8466772	NC_021163.1	Ca_kabuli_chr04	8466772	GG	TT	1946788127
SNP_P4_39372_8466783	NC_021163.1	Ca_kabuli_chr04	8466783	CC	AA	1946788129
SNP_P4_39373_8466825	NC_021163.1	Ca_kabuli_chr04	8466825	TT	AA	1946788132
SNP_P4_39374_8467375	NC_021163.1	Ca_kabuli_chr04	8467375	TT	GG	1946788134
SNP_P4_39375_8467377	NC_021163.1	Ca_kabuli_chr04	8467377	TT	GG	1946788135
SNP_P4_39376_8467633	NC_021163.1	Ca_kabuli_chr04	8467633	TT	AA	1946788137
SNP_P4_39377_8468121	NC_021163.1	Ca_kabuli_chr04	8468121	AA	GG	1946788139
SNP_P4_39378_8468126	NC_021163.1	Ca_kabuli_chr04	8468126	TT	AA	1946788141
SNP_P4_39379_8468337	NC_021163.1	Ca_kabuli_chr04	8468337	CC	TT	1946788143

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_39381_8468381	NC_021163.1	Ca_kabuli_chr04	8468381	CC	TT	1946788147
SNP_P4_39382_8468413	NC_021163.1	Ca_kabuli_chr04	8468413	AA	GG	1946788149
SNP_P4_39383_8468559	NC_021163.1	Ca_kabuli_chr04	8468559	AA	CC	1946788151
SNP_P4_39384_8468567	NC_021163.1	Ca_kabuli_chr04	8468567	CC	TT	1946788153
SNP_P4_39385_8468621	NC_021163.1	Ca_kabuli_chr04	8468621	GG	TT	1946788155
SNP_P4_39386_8471061	NC_021163.1	Ca_kabuli_chr04	8471061	GG	CC	1946788157
SNP_P4_39387_8473288	NC_021163.1	Ca_kabuli_chr04	8473288	GG	AA	1946788159
SNP_P4_39388_8473294	NC_021163.1	Ca_kabuli_chr04	8473294	AA	GG	1946788161
SNP_P4_39389_8473622	NC_021163.1	Ca_kabuli_chr04	8473622	AA	TT	1946788163
SNP_P4_39391_8474544	NC_021163.1	Ca_kabuli_chr04	8474544	CC	TT	1946788165
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SNP_P4_39395_8474863	NC_021163.1	Ca_kabuli_chr04	8474863	CC	GG	1946788173
SNP_P4_39396_8475947	NC_021163.1	Ca_kabuli_chr04	8475947	GG	AA	1946788175
SNP_P4_39397_8476033	NC_021163.1	Ca_kabuli_chr04	8476033	CC	TT	1946788177
SNP_P4_39398_8476432	NC_021163.1	Ca_kabuli_chr04	8476432	AA	GG	1946788179
SNP_P4_39400_8477203	NC_021163.1	Ca_kabuli_chr04	8477203	GG	AA	1946788181
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SNP_P4_39403_8477461	NC_021163.1	Ca_kabuli_chr04	8477461	GG	AA	1946788187
SNP_P4_39404_8477705	NC_021163.1	Ca_kabuli_chr04	8477705	TT	GG	1946788189
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SNP_P4_39407_8478132	NC_021163.1	Ca_kabuli_chr04	8478132	CC	TT	1946788193
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SNP_P4_39411_8480713	NC_021163.1	Ca_kabuli_chr04	8480713	CC	AA	1946788201
SNP_P4_39412_8480714	NC_021163.1	Ca_kabuli_chr04	8480714	TT	CC	1946788203
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SNP_P4_39415_8481292	NC_021163.1	Ca_kabuli_chr04	8481292	AA	TT	1946788209
SNP_P4_39416_8481636	NC_021163.1	Ca_kabuli_chr04	8481636	AA	GG	1946788210
SNP_P4_39417_8482379	NC_021163.1	Ca_kabuli_chr04	8482379	AA	GG	1946788212
SNP_P4_39418_8482398	NC_021163.1	Ca_kabuli_chr04	8482398	AA	GG	1946788214
SNP_P4_39419_8482416	NC_021163.1	Ca_kabuli_chr04	8482416	TT	CC	1946788216
SNP_P4_39420_8482495	NC_021163.1	Ca_kabuli_chr04	8482495	GG	AA	1946788218
SNP_P4_39421_8482514	NC_021163.1	Ca_kabuli_chr04	8482514	AA	GG	1946788220
SNP_P4_39422_8482549	NC_021163.1	Ca_kabuli_chr04	8482549	TT	CC	1946788222
SNP_P4_39423_8482560	NC_021163.1	Ca_kabuli_chr04	8482560	GG	CC	1946788224
SNP_P4_39426_8484058	NC_021163.1	Ca_kabuli_chr04	8484058	AA	GG	1946788227

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_39429_8487023	NC_021163.1	Ca_kabuli_chr04	8487023	TT	GG	1946788231
SNP_P4_39430_8488951	NC_021163.1	Ca_kabuli_chr04	8488951	GG	TT	1946788233
SNP_P4_39431_8489134	NC_021163.1	Ca_kabuli_chr04	8489134	GG	AA	1946788235
SNP_P4_39436_8499775	NC_021163.1	Ca_kabuli_chr04	8499775	GG	AA	1946788237
SNP_P4_39438_8499902	NC_021163.1	Ca_kabuli_chr04	8499902	CC	TT	1946788239
SNP_P4_39439_8499968	NC_021163.1	Ca_kabuli_chr04	8499968	GG	CC	1946788241
SNP_P4_39440_8500902	NC_021163.1	Ca_kabuli_chr04	8500902	CC	AA	1946788243
SNP_P4_39441_8501438	NC_021163.1	Ca_kabuli_chr04	8501438	TT	AA	1946788245
SNP_P4_39442_8503209	NC_021163.1	Ca_kabuli_chr04	8503209	AA	TT	1946788247
SNP_P4_39443_8503419	NC_021163.1	Ca_kabuli_chr04	8503419	TT	CC	1946788249
SNP_P4_39444_8503469	NC_021163.1	Ca_kabuli_chr04	8503469	CC	TT	1946788251
SNP_P4_39445_8504058	NC_021163.1	Ca_kabuli_chr04	8504058	AA	CC	1946788253
SNP_P4_39447_8504766	NC_021163.1	Ca_kabuli_chr04	8504766	AA	GG	1946788255
SNP_P4_39448_8505313	NC_021163.1	Ca_kabuli_chr04	8505313	GG	AA	1946788258
SNP_P4_39449_8505348	NC_021163.1	Ca_kabuli_chr04	8505348	GG	AA	1946788260
SNP_P4_39450_8505350	NC_021163.1	Ca_kabuli_chr04	8505350	AA	GG	1946788262
SNP_P4_39451_8505386	NC_021163.1	Ca_kabuli_chr04	8505386	AA	GG	1946788264
SNP_P4_39452_8506228	NC_021163.1	Ca_kabuli_chr04	8506228	GG	AA	1946788266
SNP_P4_39453_8507356	NC_021163.1	Ca_kabuli_chr04	8507356	GG	TT	1946788268
SNP_P4_39454_8508301	NC_021163.1	Ca_kabuli_chr04	8508301	TT	CC	1946788270
SNP_P4_39455_8508338	NC_021163.1	Ca_kabuli_chr04	8508338	TT	AA	1946788272
SNP_P4_39456_8508878	NC_021163.1	Ca_kabuli_chr04	8508878	AA	GG	1946788274
SNP_P4_39457_8508935	NC_021163.1	Ca_kabuli_chr04	8508935	TT	AA	1946788278
SNP_P4_39460_8509407	NC_021163.1	Ca_kabuli_chr04	8509407	AA	GG	1946788280
SNP_P4_39461_8509709	NC_021163.1	Ca_kabuli_chr04	8509709	AA	CC	1946788282
SNP_P4_39462_8512666	NC_021163.1	Ca_kabuli_chr04	8512666	AA	GG	1946788284
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SNP_P4_39464_8513216	NC_021163.1	Ca_kabuli_chr04	8513216	GG	AA	1946788288
SNP_P4_39465_8514560	NC_021163.1	Ca_kabuli_chr04	8514560	AA	CC	1946788290
SNP_P4_39466_8514852	NC_021163.1	Ca_kabuli_chr04	8514852	AA	GG	1946788293
SNP_P4_39467_8514961	NC_021163.1	Ca_kabuli_chr04	8514961	CC	TT	1946788295
SNP_P4_39468_8514969	NC_021163.1	Ca_kabuli_chr04	8514969	GG	TT	1946788297
SNP_P4_39470_8515231	NC_021163.1	Ca_kabuli_chr04	8515231	AA	GG	1946788298
SNP_P4_39471_8515246	NC_021163.1	Ca_kabuli_chr04	8515246	TT	GG	1946788299
SNP_P4_39473_8518485	NC_021163.1	Ca_kabuli_chr04	8518485	TT	CC	1946788300
SNP_P4_39474_8518825	NC_021163.1	Ca_kabuli_chr04	8518825	CC	TT	1946788301
SNP_P4_39475_8521223	NC_021163.1	Ca_kabuli_chr04	8521223	CC	TT	1946788303
SNP_P4_39476_8522397	NC_021163.1	Ca_kabuli_chr04	8522397	AA	GG	1946788305
SNP_P4_39477_8522420	NC_021163.1	Ca_kabuli_chr04	8522420	TT	CC	1946788308
SNP_P4_39478_8522645	NC_021163.1	Ca_kabuli_chr04	8522645	GG	TT	1946788310
SNP_P4_39479_8522646	NC_021163.1	Ca_kabuli_chr04	8522646	TT	AA	1946788312

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_39482_8524421	NC_021163.1	Ca_kabuli_chr04	8524421	AA	CC	1946788318
SNP_P4_39484_8524443	NC_021163.1	Ca_kabuli_chr04	8524443	AA	CC	1946788320
SNP_P4_39485_8524536	NC_021163.1	Ca_kabuli_chr04	8524536	GG	AA	1946788322
SNP_P4_39486_8532621	NC_021163.1	Ca_kabuli_chr04	8532621	GG	TT	1946788324
SNP_P4_39487_8548515	NC_021163.1	Ca_kabuli_chr04	8548515	TT	AA	1946788326
SNP_P4_39488_8567697	NC_021163.1	Ca_kabuli_chr04	8567697	GG	AA	1946788328
SNP_P4_39489_8573447	NC_021163.1	Ca_kabuli_chr04	8573447	TT	GG	1946788330
SNP_P4_39490_8575063	NC_021163.1	Ca_kabuli_chr04	8575063	CC	TT	1946788332
SNP_P4_39492_8576692	NC_021163.1	Ca_kabuli_chr04	8576692	AA	GG	1946788334
SNP_P4_39494_8581346	NC_021163.1	Ca_kabuli_chr04	8581346	GG	AA	1946788336
SNP_P4_39496_8607119	NC_021163.1	Ca_kabuli_chr04	8607119	GG	AA	1946788338
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SNP_P4_39500_8612565	NC_021163.1	Ca_kabuli_chr04	8612565	GG	AA	1946788343
SNP_P4_39501_8613333	NC_021163.1	Ca_kabuli_chr04	8613333	AA	GG	1946788345
SNP_P4_39502_8613396	NC_021163.1	Ca_kabuli_chr04	8613396	CC	TT	1946788347
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SNP_P4_39508_8614603	NC_021163.1	Ca_kabuli_chr04	8614603	AA	GG	1946788357
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SNP_P4_39510_8614815	NC_021163.1	Ca_kabuli_chr04	8614815	GG	AA	1946788361
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SNP_P4_39512_8615151	NC_021163.1	Ca_kabuli_chr04	8615151	TT	AA	1946788365
SNP_P4_39514_8616180	NC_021163.1	Ca_kabuli_chr04	8616180	TT	GG	1946788367
SNP_P4_39515_8616202	NC_021163.1	Ca_kabuli_chr04	8616202	CC	AA	1946788369
SNP_P4_39517_8617100	NC_021163.1	Ca_kabuli_chr04	8617100	TT	CC	1946788371
SNP_P4_39518_8617423	NC_021163.1	Ca_kabuli_chr04	8617423	CC	GG	1946788373
SNP_P4_39519_8617618	NC_021163.1	Ca_kabuli_chr04	8617618	TT	CC	1946788375
SNP_P4_39520_8617746	NC_021163.1	Ca_kabuli_chr04	8617746	AA	GG	1946788377
SNP_P4_39521_8619267	NC_021163.1	Ca_kabuli_chr04	8619267	CC	AA	1946788379
SNP_P4_39522_8619462	NC_021163.1	Ca_kabuli_chr04	8619462	GG	TT	1946788381
SNP_P4_39524_8622754	NC_021163.1	Ca_kabuli_chr04	8622754	TT	GG	1946788384
SNP_P4_39525_8622936	NC_021163.1	Ca_kabuli_chr04	8622936	TT	CC	1946788386
SNP_P4_39526_8622944	NC_021163.1	Ca_kabuli_chr04	8622944	CC	TT	1946788388
SNP_P4_39527_8623544	NC_021163.1	Ca_kabuli_chr04	8623544	AA	TT	1946788390
SNP_P4_39528_8623621	NC_021163.1	Ca_kabuli_chr04	8623621	GG	TT	1946788392
SNP_P4_39529_8623709	NC_021163.1	Ca_kabuli_chr04	8623709	CC	GG	1946788394
SNP_P4_39530_8623961	NC_021163.1	Ca_kabuli_chr04	8623961	GG	TT	1946788396
SNP_P4_39531_8623982	NC_021163.1	Ca_kabuli_chr04	8623982	GG	AA	1946788398

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_39533_8624091	NC_021163.1	Ca_kabuli_chr04	8624091	AA	GG	1946788402
SNP_P4_39534_8624252	NC_021163.1	Ca_kabuli_chr04	8624252	AA	GG	1946788404
SNP_P4_39535_8625512	NC_021163.1	Ca_kabuli_chr04	8625512	CC	GG	1946788406
SNP_P4_39536_8625528	NC_021163.1	Ca_kabuli_chr04	8625528	AA	GG	1946788408
SNP_P4_39537_8625683	NC_021163.1	Ca_kabuli_chr04	8625683	TT	CC	1946788410
SNP_P4_39538_8625699	NC_021163.1	Ca_kabuli_chr04	8625699	CC	TT	1946788412
SNP_P4_39539_8625705	NC_021163.1	Ca_kabuli_chr04	8625705	CC	TT	1946788414
SNP_P4_39541_8626136	NC_021163.1	Ca_kabuli_chr04	8626136	TT	AA	1946788416
SNP_P4_39542_8626444	NC_021163.1	Ca_kabuli_chr04	8626444	AA	TT	1946788419
SNP_P4_39543_8626467	NC_021163.1	Ca_kabuli_chr04	8626467	CC	TT	1946788421
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SNP_P4_39545_8628682	NC_021163.1	Ca_kabuli_chr04	8628682	GG	AA	1946788425
SNP_P4_39546_8628683	NC_021163.1	Ca_kabuli_chr04	8628683	TT	CC	1946788427
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SNP_P4_39549_8630862	NC_021163.1	Ca_kabuli_chr04	8630862	CC	AA	1946788433
SNP_P4_39550_8632130	NC_021163.1	Ca_kabuli_chr04	8632130	CC	TT	1946788435
SNP_P4_39551_8632133	NC_021163.1	Ca_kabuli_chr04	8632133	AA	GG	1946788437
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SNP_P4_39555_8633758	NC_021163.1	Ca_kabuli_chr04	8633758	CC	TT	1946788444
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SNP_P4_39564_8635454	NC_021163.1	Ca_kabuli_chr04	8635454	TT	CC	1946788462
SNP_P4_39565_8635484	NC_021163.1	Ca_kabuli_chr04	8635484	GG	AA	1946788464
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SNP_P4_39567_8635512	NC_021163.1	Ca_kabuli_chr04	8635512	TT	GG	1946788468
SNP_P4_39568_8635515	NC_021163.1	Ca_kabuli_chr04	8635515	AA	CC	1946788470
SNP_P4_39569_8635518	NC_021163.1	Ca_kabuli_chr04	8635518	CC	TT	1946788472
SNP_P4_39570_8635529	NC_021163.1	Ca_kabuli_chr04	8635529	TT	AA	1946788475
SNP_P4_39571_8635540	NC_021163.1	Ca_kabuli_chr04	8635540	TT	AA	1946788477
SNP_P4_39572_8635546	NC_021163.1	Ca_kabuli_chr04	8635546	TT	GG	1946788479
SNP_P4_39573_8635553	NC_021163.1	Ca_kabuli_chr04	8635553	CC	AA	1946788481
SNP_P4_39574_8635563	NC_021163.1	Ca_kabuli_chr04	8635563	AA	GG	1946788483
SNP_P4_39575_8635580	NC_021163.1	Ca_kabuli_chr04	8635580	TT	AA	1946788485
SNP_P4_39576_8635681	NC_021163.1	Ca_kabuli_chr04	8635681	CC	GG	1946788487

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_39578_8636217	NC_021163.1	Ca_kabuli_chr04	8636217	CC	GG	1946788491
SNP_P4_39580_8636231	NC_021163.1	Ca_kabuli_chr04	8636231	GG	AA	1946788494
SNP_P4_39582_8636302	NC_021163.1	Ca_kabuli_chr04	8636302	TT	CC	1946788496
SNP_P4_39583_8636442	NC_021163.1	Ca_kabuli_chr04	8636442	GG	TT	1946788498
SNP_P4_39584_8636452	NC_021163.1	Ca_kabuli_chr04	8636452	CC	AA	1946788500
SNP_P4_39585_8637947	NC_021163.1	Ca_kabuli_chr04	8637947	TT	CC	1946788502
SNP_P4_39586_8638270	NC_021163.1	Ca_kabuli_chr04	8638270	CC	AA	1946788504
SNP_P4_39587_8638798	NC_021163.1	Ca_kabuli_chr04	8638798	CC	GG	1946788506
SNP_P4_39588_8639647	NC_021163.1	Ca_kabuli_chr04	8639647	TT	CC	1946788508
SNP_P4_39589_8639666	NC_021163.1	Ca_kabuli_chr04	8639666	TT	AA	1946788510
SNP_P4_39590_8639747	NC_021163.1	Ca_kabuli_chr04	8639747	AA	GG	1946788512
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SNP_P4_39593_8639896	NC_021163.1	Ca_kabuli_chr04	8639896	GG	TT	1946788517
SNP_P4_39594_8640040	NC_021163.1	Ca_kabuli_chr04	8640040	GG	AA	1946788519
SNP_P4_39595_8640053	NC_021163.1	Ca_kabuli_chr04	8640053	CC	GG	1946788521
SNP_P4_39596_8640061	NC_021163.1	Ca_kabuli_chr04	8640061	GG	TT	1946788523
SNP_P4_39597_8640096	NC_021163.1	Ca_kabuli_chr04	8640096	GG	AA	1946788525
SNP_P4_39598_8642928	NC_021163.1	Ca_kabuli_chr04	8642928	GG	TT	1946788527
SNP_P4_39599_8643764	NC_021163.1	Ca_kabuli_chr04	8643764	GG	TT	1946788529
SNP_P4_39600_8643769	NC_021163.1	Ca_kabuli_chr04	8643769	AA	TT	1946788531
SNP_P4_39601_8643792	NC_021163.1	Ca_kabuli_chr04	8643792	GG	TT	1946788534
SNP_P4_39602_8643895	NC_021163.1	Ca_kabuli_chr04	8643895	AA	GG	1946788536
SNP_P4_39603_8643896	NC_021163.1	Ca_kabuli_chr04	8643896	AA	GG	1946788538
SNP_P4_39604_8644026	NC_021163.1	Ca_kabuli_chr04	8644026	CC	TT	1946788540
SNP_P4_39605_8644052	NC_021163.1	Ca_kabuli_chr04	8644052	AA	GG	1946788542
SNP_P4_39607_8644208	NC_021163.1	Ca_kabuli_chr04	8644208	CC	TT	1946788544
SNP_P4_39608_8644402	NC_021163.1	Ca_kabuli_chr04	8644402	TT	GG	1946788546
SNP_P4_39609_8644411	NC_021163.1	Ca_kabuli_chr04	8644411	AA	GG	1946788548
SNP_P4_39610_8644420	NC_021163.1	Ca_kabuli_chr04	8644420	AA	GG	1946788550
SNP_P4_39611_8644437	NC_021163.1	Ca_kabuli_chr04	8644437	GG	AA	1946788552
SNP_P4_39612_8647695	NC_021163.1	Ca_kabuli_chr04	8647695	CC	TT	1946788554
SNP_P4_39613_8647703	NC_021163.1	Ca_kabuli_chr04	8647703	TT	AA	1946788556
SNP_P4_39615_8648035	NC_021163.1	Ca_kabuli_chr04	8648035	TT	CC	1946788558
SNP_P4_39616_8648043	NC_021163.1	Ca_kabuli_chr04	8648043	TT	AA	1946788559
SNP_P4_39617_8648091	NC_021163.1	Ca_kabuli_chr04	8648091	TT	GG	1946788561
SNP_P4_39618_8648636	NC_021163.1	Ca_kabuli_chr04	8648636	AA	GG	1946788563
SNP_P4_39620_8650575	NC_021163.1	Ca_kabuli_chr04	8650575	TT	CC	1946788565
SNP_P4_39621_8650576	NC_021163.1	Ca_kabuli_chr04	8650576	AA	CC	1946788567
SNP_P4_39622_8650753	NC_021163.1	Ca_kabuli_chr04	8650753	CC	TT	1946788569
SNP_P4_39623_8650779	NC_021163.1	Ca_kabuli_chr04	8650779	CC	TT	1946788572
SNP_P4_39625_8651040	NC_021163.1	Ca_kabuli_chr04	8651040	AA	TT	1946788574

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_39627_8651215	NC_021163.1	Ca_kabuli_chr04	8651215	TT	AA	1946788578
SNP_P4_39628_8651457	NC_021163.1	Ca_kabuli_chr04	8651457	CC	AA	1946788580
SNP_P4_39629_8653024	NC_021163.1	Ca_kabuli_chr04	8653024	TT	CC	1946788582
SNP_P4_39630_8653053	NC_021163.1	Ca_kabuli_chr04	8653053	TT	AA	1946788584
SNP_P4_39631_8655030	NC_021163.1	Ca_kabuli_chr04	8655030	AA	TT	1946788586
SNP_P4_39632_8656186	NC_021163.1	Ca_kabuli_chr04	8656186	AA	GG	1946788588
SNP_P4_39633_8656230	NC_021163.1	Ca_kabuli_chr04	8656230	GG	TT	1946788590
SNP_P4_39634_8656635	NC_021163.1	Ca_kabuli_chr04	8656635	TT	CC	1946788593
SNP_P4_39635_8659309	NC_021163.1	Ca_kabuli_chr04	8659309	TT	GG	1946788595
SNP_P4_39636_8662609	NC_021163.1	Ca_kabuli_chr04	8662609	AA	CC	1946788597
SNP_P4_39637_8662650	NC_021163.1	Ca_kabuli_chr04	8662650	TT	CC	1946788599
SNP_P4_39638_8663674	NC_021163.1	Ca_kabuli_chr04	8663674	TT	AA	1946788601
SNP_P4_39639_8663683	NC_021163.1	Ca_kabuli_chr04	8663683	GG	CC	1946788603
SNP_P4_39640_8663724	NC_021163.1	Ca_kabuli_chr04	8663724	AA	CC	1946788605
SNP_P4_39641_8663734	NC_021163.1	Ca_kabuli_chr04	8663734	TT	GG	1946788608
SNP_P4_39642_8665526	NC_021163.1	Ca_kabuli_chr04	8665526	AA	GG	1946788610
SNP_P4_39643_8665571	NC_021163.1	Ca_kabuli_chr04	8665571	GG	AA	1946788612
SNP_P4_39644_8665612	NC_021163.1	Ca_kabuli_chr04	8665612	GG	AA	1946788614
SNP_P4_39645_8665790	NC_021163.1	Ca_kabuli_chr04	8665790	TT	CC	1946788617
SNP_P4_39646_8665791	NC_021163.1	Ca_kabuli_chr04	8665791	CC	GG	1946788619
SNP_P4_39647_8665915	NC_021163.1	Ca_kabuli_chr04	8665915	GG	AA	1946788621
SNP_P4_39648_8665978	NC_021163.1	Ca_kabuli_chr04	8665978	TT	CC	1946788623
SNP_P4_39649_8668263	NC_021163.1	Ca_kabuli_chr04	8668263	GG	CC	1946788625
SNP_P4_39650_8669260	NC_021163.1	Ca_kabuli_chr04	8669260	CC	TT	1946788627
SNP_P4_39651_8669326	NC_021163.1	Ca_kabuli_chr04	8669326	GG	CC	1946788630
SNP_P4_39652_8669596	NC_021163.1	Ca_kabuli_chr04	8669596	AA	CC	1946788632
SNP_P4_39653_8669911	NC_021163.1	Ca_kabuli_chr04	8669911	GG	CC	1946788634
SNP_P4_39654_8669933	NC_021163.1	Ca_kabuli_chr04	8669933	AA	GG	1946788636
SNP_P4_39655_8670012	NC_021163.1	Ca_kabuli_chr04	8670012	TT	GG	1946788638
SNP_P4_39656_8670039	NC_021163.1	Ca_kabuli_chr04	8670039	GG	AA	1946788641
SNP_P4_39657_8670388	NC_021163.1	Ca_kabuli_chr04	8670388	TT	CC	1946788643
SNP_P4_39658_8670390	NC_021163.1	Ca_kabuli_chr04	8670390	TT	GG	1946788645
SNP_P4_39659_8677398	NC_021163.1	Ca_kabuli_chr04	8677398	CC	AA	1946788647
SNP_P4_39660_8678325	NC_021163.1	Ca_kabuli_chr04	8678325	TT	CC	1946788649
SNP_P4_39661_8678330	NC_021163.1	Ca_kabuli_chr04	8678330	AA	GG	1946788651
SNP_P4_39662_8678422	NC_021163.1	Ca_kabuli_chr04	8678422	GG	AA	1946788653
SNP_P4_39663_8678445	NC_021163.1	Ca_kabuli_chr04	8678445	TT	CC	1946788656
SNP_P4_39664_8678894	NC_021163.1	Ca_kabuli_chr04	8678894	AA	CC	1946788658
SNP_P4_39665_8678908	NC_021163.1	Ca_kabuli_chr04	8678908	AA	GG	1946788660
SNP_P4_39666_8678910	NC_021163.1	Ca_kabuli_chr04	8678910	GG	CC	1946788662
SNP_P4_39667_8678924	NC_021163.1	Ca_kabuli_chr04	8678924	AA	CC	1946788664

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_39669_8679635	NC_021163.1	Ca_kabuli_chr04	8679635	GG	AA	1946788668
SNP_P4_39670_8679641	NC_021163.1	Ca_kabuli_chr04	8679641	GG	AA	1946788670
SNP_P4_39672_8682176	NC_021163.1	Ca_kabuli_chr04	8682176	AA	CC	1946788672
SNP_P4_39673_8682191	NC_021163.1	Ca_kabuli_chr04	8682191	TT	CC	1946788674
SNP_P4_39674_8683208	NC_021163.1	Ca_kabuli_chr04	8683208	AA	GG	1946788676
SNP_P4_39675_8683704	NC_021163.1	Ca_kabuli_chr04	8683704	GG	TT	1946788678
SNP_P4_39676_8684688	NC_021163.1	Ca_kabuli_chr04	8684688	AA	GG	1946788681
SNP_P4_39677_8684695	NC_021163.1	Ca_kabuli_chr04	8684695	TT	CC	1946788683
SNP_P4_39678_8686351	NC_021163.1	Ca_kabuli_chr04	8686351	AA	GG	1946788685
SNP_P4_39679_8686354	NC_021163.1	Ca_kabuli_chr04	8686354	AA	GG	1946788687
SNP_P4_39680_8688074	NC_021163.1	Ca_kabuli_chr04	8688074	CC	TT	1946788689
SNP_P4_39681_8688075	NC_021163.1	Ca_kabuli_chr04	8688075	TT	CC	1946788691
SNP_P4_39682_8688527	NC_021163.1	Ca_kabuli_chr04	8688527	TT	CC	1946788693
SNP_P4_39684_8688965	NC_021163.1	Ca_kabuli_chr04	8688965	GG	AA	1946788695
SNP_P4_39686_8689432	NC_021163.1	Ca_kabuli_chr04	8689432	AA	GG	1946788697
SNP_P4_39687_8689438	NC_021163.1	Ca_kabuli_chr04	8689438	AA	GG	1946788699
SNP_P4_39689_8690203	NC_021163.1	Ca_kabuli_chr04	8690203	AA	GG	1946788701
SNP_P4_39690_8690219	NC_021163.1	Ca_kabuli_chr04	8690219	CC	TT	1946788703
SNP_P4_39691_8690253	NC_021163.1	Ca_kabuli_chr04	8690253	AA	TT	1946788706
SNP_P4_39692_8690313	NC_021163.1	Ca_kabuli_chr04	8690313	AA	GG	1946788708
SNP_P4_39693_8690400	NC_021163.1	Ca_kabuli_chr04	8690400	GG	AA	1946788710
SNP_P4_39694_8690423	NC_021163.1	Ca_kabuli_chr04	8690423	AA	GG	1946788712
SNP_P4_39695_8690435	NC_021163.1	Ca_kabuli_chr04	8690435	AA	CC	1946788714
SNP_P4_39696_8690491	NC_021163.1	Ca_kabuli_chr04	8690491	AA	GG	1946788716
SNP_P4_39699_8691982	NC_021163.1	Ca_kabuli_chr04	8691982	CC	GG	1946788718
SNP_P4_39700_8692321	NC_021163.1	Ca_kabuli_chr04	8692321	CC	TT	1946788720
SNP_P4_39701_8696943	NC_021163.1	Ca_kabuli_chr04	8696943	GG	AA	1946788722
SNP_P4_39702_8698244	NC_021163.1	Ca_kabuli_chr04	8698244	AA	GG	1946788724
SNP_P4_39703_8698850	NC_021163.1	Ca_kabuli_chr04	8698850	CC	TT	1946788726
SNP_P4_39705_8700073	NC_021163.1	Ca_kabuli_chr04	8700073	TT	CC	1946788728
SNP_P4_39707_8701419	NC_021163.1	Ca_kabuli_chr04	8701419	TT	CC	1946788730
SNP_P4_39708_8701601	NC_021163.1	Ca_kabuli_chr04	8701601	GG	AA	1946788733
SNP_P4_39709_8701613	NC_021163.1	Ca_kabuli_chr04	8701613	CC	TT	1946788735
SNP_P4_39710_8701645	NC_021163.1	Ca_kabuli_chr04	8701645	GG	AA	1946788737
SNP_P4_39711_8703213	NC_021163.1	Ca_kabuli_chr04	8703213	TT	CC	1946788739
SNP_P4_39712_8704836	NC_021163.1	Ca_kabuli_chr04	8704836	GG	AA	1946788741
SNP_P4_39713_8704840	NC_021163.1	Ca_kabuli_chr04	8704840	CC	AA	1946788743
SNP_P4_39714_8704845	NC_021163.1	Ca_kabuli_chr04	8704845	CC	AA	1946788745
SNP_P4_39715_8704915	NC_021163.1	Ca_kabuli_chr04	8704915	AA	TT	1946788747
SNP_P4_39716_8704943	NC_021163.1	Ca_kabuli_chr04	8704943	GG	CC	1946788749
SNP_P4_39717_8705007	NC_021163.1	Ca_kabuli_chr04	8705007	TT	CC	1946788751

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_39719_8705438	NC_021163.1	Ca_kabuli_chr04	8705438	TT	CC	1946788756
SNP_P4_39720_8705454	NC_021163.1	Ca_kabuli_chr04	8705454	CC	TT	1946788758
SNP_P4_39721_8705456	NC_021163.1	Ca_kabuli_chr04	8705456	AA	GG	1946788760
SNP_P4_39722_8705465	NC_021163.1	Ca_kabuli_chr04	8705465	CC	GG	1946788762
SNP_P4_39723_8705831	NC_021163.1	Ca_kabuli_chr04	8705831	AA	GG	1946788764
SNP_P4_39724_8705837	NC_021163.1	Ca_kabuli_chr04	8705837	CC	TT	1946788766
SNP_P4_39725_8705841	NC_021163.1	Ca_kabuli_chr04	8705841	CC	TT	1946788768
SNP_P4_39726_8705857	NC_021163.1	Ca_kabuli_chr04	8705857	AA	GG	1946788770
SNP_P4_39727_8705863	NC_021163.1	Ca_kabuli_chr04	8705863	AA	GG	1946788772
SNP_P4_39728_8706830	NC_021163.1	Ca_kabuli_chr04	8706830	GG	AA	1946788774
SNP_P4_39729_8707076	NC_021163.1	Ca_kabuli_chr04	8707076	GG	AA	1946788776
SNP_P4_39731_8707115	NC_021163.1	Ca_kabuli_chr04	8707115	TT	AA	1946788778
SNP_P4_39732_8708229	NC_021163.1	Ca_kabuli_chr04	8708229	CC	AA	1946788780
SNP_P4_39733_8708245	NC_021163.1	Ca_kabuli_chr04	8708245	GG	AA	1946788782
SNP_P4_39734_8708246	NC_021163.1	Ca_kabuli_chr04	8708246	GG	AA	1946788785
SNP_P4_39736_8709741	NC_021163.1	Ca_kabuli_chr04	8709741	CC	TT	1946788787
SNP_P4_39737_8710328	NC_021163.1	Ca_kabuli_chr04	8710328	TT	CC	1946788789
SNP_P4_39738_8710351	NC_021163.1	Ca_kabuli_chr04	8710351	AA	GG	1946788791
SNP_P4_39739_8710541	NC_021163.1	Ca_kabuli_chr04	8710541	CC	AA	1946788793
SNP_P4_39740_8710571	NC_021163.1	Ca_kabuli_chr04	8710571	CC	GG	1946788795
SNP_P4_39741_8711104	NC_021163.1	Ca_kabuli_chr04	8711104	TT	CC	1946788797
SNP_P4_39742_8711259	NC_021163.1	Ca_kabuli_chr04	8711259	AA	GG	1946788799
SNP_P4_39743_8711434	NC_021163.1	Ca_kabuli_chr04	8711434	TT	CC	1946788801
SNP_P4_39744_8711944	NC_021163.1	Ca_kabuli_chr04	8711944	GG	AA	1946788803
SNP_P4_39746_8712137	NC_021163.1	Ca_kabuli_chr04	8712137	GG	AA	1946788805
SNP_P4_39748_8713889	NC_021163.1	Ca_kabuli_chr04	8713889	AA	TT	1946788807
SNP_P4_39749_8713945	NC_021163.1	Ca_kabuli_chr04	8713945	TT	GG	1946788809
SNP_P4_39750_8713961	NC_021163.1	Ca_kabuli_chr04	8713961	TT	CC	1946788811
SNP_P4_39751_8713978	NC_021163.1	Ca_kabuli_chr04	8713978	AA	GG	1946788813
SNP_P4_39752_8714083	NC_021163.1	Ca_kabuli_chr04	8714083	GG	AA	1946788815
SNP_P4_39753_8714084	NC_021163.1	Ca_kabuli_chr04	8714084	CC	TT	1946788817
SNP_P4_39754_8714089	NC_021163.1	Ca_kabuli_chr04	8714089	CC	AA	1946788819
SNP_P4_39755_8714093	NC_021163.1	Ca_kabuli_chr04	8714093	GG	TT	1946788821
SNP_P4_39756_8714098	NC_021163.1	Ca_kabuli_chr04	8714098	CC	GG	1946788823
SNP_P4_39758_8715066	NC_021163.1	Ca_kabuli_chr04	8715066	AA	GG	1946788825
SNP_P4_39759_8715147	NC_021163.1	Ca_kabuli_chr04	8715147	TT	AA	1946788827
SNP_P4_39760_8715258	NC_021163.1	Ca_kabuli_chr04	8715258	AA	TT	1946788829
SNP_P4_39761_8715351	NC_021163.1	Ca_kabuli_chr04	8715351	AA	CC	1946788831
SNP_P4_39762_8715558	NC_021163.1	Ca_kabuli_chr04	8715558	CC	TT	1946788833
SNP_P4_39763_8715960	NC_021163.1	Ca_kabuli_chr04	8715960	CC	GG	1946788835
SNP_P4_39764_8715970	NC_021163.1	Ca_kabuli_chr04	8715970	TT	CC	1946788837

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_39766_8716140	NC_021163.1	Ca_kabuli_chr04	8716140	GG	CC	1946788841
SNP_P4_39768_8716389	NC_021163.1	Ca_kabuli_chr04	8716389	TT	AA	1946788843
SNP_P4_39769_8716436	NC_021163.1	Ca_kabuli_chr04	8716436	TT	CC	1946788845
SNP_P4_39770_8717819	NC_021163.1	Ca_kabuli_chr04	8717819	TT	AA	1946788847
SNP_P4_39771_8717824	NC_021163.1	Ca_kabuli_chr04	8717824	CC	GG	1946788849
SNP_P4_39772_8718960	NC_021163.1	Ca_kabuli_chr04	8718960	AA	TT	1946788851
SNP_P4_39773_8719020	NC_021163.1	Ca_kabuli_chr04	8719020	CC	AA	1946788853
SNP_P4_39774_8720331	NC_021163.1	Ca_kabuli_chr04	8720331	TT	CC	1946788856
SNP_P4_39775_8720614	NC_021163.1	Ca_kabuli_chr04	8720614	AA	GG	1946788858
SNP_P4_39776_8720658	NC_021163.1	Ca_kabuli_chr04	8720658	AA	TT	1946788860
SNP_P4_39777_8720772	NC_021163.1	Ca_kabuli_chr04	8720772	TT	CC	1946788862
SNP_P4_39778_8720774	NC_021163.1	Ca_kabuli_chr04	8720774	GG	TT	1946788864
SNP_P4_39779_8721103	NC_021163.1	Ca_kabuli_chr04	8721103	GG	AA	1946788866
SNP_P4_39780_8721555	NC_021163.1	Ca_kabuli_chr04	8721555	CC	TT	1946788868
SNP_P4_39781_8722727	NC_021163.1	Ca_kabuli_chr04	8722727	GG	TT	1946788870
SNP_P4_39782_8722763	NC_021163.1	Ca_kabuli_chr04	8722763	TT	AA	1946788872
SNP_P4_39783_8722773	NC_021163.1	Ca_kabuli_chr04	8722773	GG	TT	1946788874
SNP_P4_39784_8722997	NC_021163.1	Ca_kabuli_chr04	8722997	CC	AA	1946788876
SNP_P4_39785_8723015	NC_021163.1	Ca_kabuli_chr04	8723015	AA	CC	1946788878
SNP_P4_39786_8723031	NC_021163.1	Ca_kabuli_chr04	8723031	CC	AA	1946788880
SNP_P4_39788_8723416	NC_021163.1	Ca_kabuli_chr04	8723416	CC	TT	1946788882
SNP_P4_39789_8723419	NC_021163.1	Ca_kabuli_chr04	8723419	AA	TT	1946788884
SNP_P4_39790_8724165	NC_021163.1	Ca_kabuli_chr04	8724165	TT	AA	1946788887
SNP_P4_39791_8724170	NC_021163.1	Ca_kabuli_chr04	8724170	TT	CC	1946788889
SNP_P4_39792_8724173	NC_021163.1	Ca_kabuli_chr04	8724173	TT	AA	1946788891
SNP_P4_39793_8724174	NC_021163.1	Ca_kabuli_chr04	8724174	TT	AA	1946788893
SNP_P4_39794_8725417	NC_021163.1	Ca_kabuli_chr04	8725417	CC	AA	1946788895
SNP_P4_39795_8725428	NC_021163.1	Ca_kabuli_chr04	8725428	AA	CC	1946788897
SNP_P4_39796_8726644	NC_021163.1	Ca_kabuli_chr04	8726644	AA	GG	1946788899
SNP_P4_39798_8727619	NC_021163.1	Ca_kabuli_chr04	8727619	AA	GG	1946788901
SNP_P4_39799_8727627	NC_021163.1	Ca_kabuli_chr04	8727627	AA	GG	1946788903
SNP_P4_39800_8727897	NC_021163.1	Ca_kabuli_chr04	8727897	TT	GG	1946788905
SNP_P4_39801_8727898	NC_021163.1	Ca_kabuli_chr04	8727898	TT	AA	1946788907
SNP_P4_39804_8728269	NC_021163.1	Ca_kabuli_chr04	8728269	GG	AA	1946788909
SNP_P4_39805_8728307	NC_021163.1	Ca_kabuli_chr04	8728307	TT	CC	1946788911
SNP_P4_39807_8728558	NC_021163.1	Ca_kabuli_chr04	8728558	CC	AA	1946788914
SNP_P4_39808_8728715	NC_021163.1	Ca_kabuli_chr04	8728715	GG	AA	1946788916
SNP_P4_39809_8728985	NC_021163.1	Ca_kabuli_chr04	8728985	TT	CC	1946788918
SNP_P4_39810_8733012	NC_021163.1	Ca_kabuli_chr04	8733012	AA	GG	1946788920
SNP_P4_39811_8733576	NC_021163.1	Ca_kabuli_chr04	8733576	AA	GG	1946788922
SNP_P4_39812_8734425	NC_021163.1	Ca_kabuli_chr04	8734425	CC	TT	1946788923

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_39815_8735037	NC_021163.1	Ca_kabuli_chr04	8735037	CC	AA	1946788927
SNP_P4_39816_8737857	NC_021163.1	Ca_kabuli_chr04	8737857	AA	GG	1946788929
SNP_P4_39817_8737859	NC_021163.1	Ca_kabuli_chr04	8737859	CC	TT	1946788931
SNP_P4_39818_8740219	NC_021163.1	Ca_kabuli_chr04	8740219	CC	TT	1946788933
SNP_P4_39819_8740237	NC_021163.1	Ca_kabuli_chr04	8740237	TT	AA	1946788935
SNP_P4_39820_8740245	NC_021163.1	Ca_kabuli_chr04	8740245	TT	CC	1946788937
SNP_P4_39821_8741057	NC_021163.1	Ca_kabuli_chr04	8741057	GG	AA	1946788939
SNP_P4_39823_8741315	NC_021163.1	Ca_kabuli_chr04	8741315	GG	AA	1946788941
SNP_P4_39824_8741454	NC_021163.1	Ca_kabuli_chr04	8741454	TT	AA	1946788943
SNP_P4_39825_8742356	NC_021163.1	Ca_kabuli_chr04	8742356	AA	GG	1946788945
SNP_P4_39826_8742369	NC_021163.1	Ca_kabuli_chr04	8742369	AA	TT	1946788947
SNP_P4_39827_8742370	NC_021163.1	Ca_kabuli_chr04	8742370	CC	AA	1946788949
SNP_P4_39828_8742965	NC_021163.1	Ca_kabuli_chr04	8742965	AA	GG	1946788951
SNP_P4_39829_8743010	NC_021163.1	Ca_kabuli_chr04	8743010	AA	GG	1946788953
SNP_P4_39830_8743304	NC_021163.1	Ca_kabuli_chr04	8743304	TT	AA	1946788955
SNP_P4_39831_8743404	NC_021163.1	Ca_kabuli_chr04	8743404	TT	AA	1946788957
SNP_P4_39832_8743436	NC_021163.1	Ca_kabuli_chr04	8743436	GG	AA	1946788959
SNP_P4_39833_8743440	NC_021163.1	Ca_kabuli_chr04	8743440	CC	AA	1946788961
SNP_P4_39834_8743467	NC_021163.1	Ca_kabuli_chr04	8743467	GG	AA	1946788963
SNP_P4_39835_8743590	NC_021163.1	Ca_kabuli_chr04	8743590	TT	CC	1946788965
SNP_P4_39836_8743683	NC_021163.1	Ca_kabuli_chr04	8743683	GG	AA	1946788967
SNP_P4_39837_8743692	NC_021163.1	Ca_kabuli_chr04	8743692	TT	CC	1946788969
SNP_P4_39838_8743716	NC_021163.1	Ca_kabuli_chr04	8743716	TT	CC	1946788971
SNP_P4_39839_8743730	NC_021163.1	Ca_kabuli_chr04	8743730	AA	GG	1946788973
SNP_P4_39841_8744314	NC_021163.1	Ca_kabuli_chr04	8744314	GG	AA	1946788976
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SNP_P4_39844_8744611	NC_021163.1	Ca_kabuli_chr04	8744611	CC	TT	1946788982
SNP_P4_39845_8744669	NC_021163.1	Ca_kabuli_chr04	8744669	AA	GG	1946788984
SNP_P4_39846_8744702	NC_021163.1	Ca_kabuli_chr04	8744702	GG	TT	1946788986
SNP_P4_39847_8744895	NC_021163.1	Ca_kabuli_chr04	8744895	GG	AA	1946788988
SNP_P4_39848_8744897	NC_021163.1	Ca_kabuli_chr04	8744897	AA	GG	1946788990
SNP_P4_39849_8744902	NC_021163.1	Ca_kabuli_chr04	8744902	AA	GG	1946788992
SNP_P4_39850_8745703	NC_021163.1	Ca_kabuli_chr04	8745703	TT	CC	1946788994
SNP_P4_39851_8745708	NC_021163.1	Ca_kabuli_chr04	8745708	CC	TT	1946788996
SNP_P4_39852_8745712	NC_021163.1	Ca_kabuli_chr04	8745712	CC	TT	1946788998
SNP_P4_39853_8745738	NC_021163.1	Ca_kabuli_chr04	8745738	TT	CC	1946789000
SNP_P4_39855_8745850	NC_021163.1	Ca_kabuli_chr04	8745850	CC	TT	1946789002
SNP_P4_39856_8746027	NC_021163.1	Ca_kabuli_chr04	8746027	CC	TT	1946789004
SNP_P4_39857_8746063	NC_021163.1	Ca_kabuli_chr04	8746063	AA	GG	1946789006
SNP_P4_39858_8746356	NC_021163.1	Ca_kabuli_chr04	8746356	AA	GG	1946789008

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_39860_8747142	NC_021163.1	Ca_kabuli_chr04	8747142	CC	TT	1946789012
SNP_P4_39861_8747810	NC_021163.1	Ca_kabuli_chr04	8747810	TT	CC	1946789014
SNP_P4_39862_8747896	NC_021163.1	Ca_kabuli_chr04	8747896	GG	AA	1946789016
SNP_P4_39863_8747912	NC_021163.1	Ca_kabuli_chr04	8747912	CC	TT	1946789018
SNP_P4_39864_8747940	NC_021163.1	Ca_kabuli_chr04	8747940	CC	TT	1946789020
SNP_P4_39865_8747980	NC_021163.1	Ca_kabuli_chr04	8747980	AA	GG	1946789022
SNP_P4_39866_8748008	NC_021163.1	Ca_kabuli_chr04	8748008	CC	TT	1946789024
SNP_P4_39868_8748214	NC_021163.1	Ca_kabuli_chr04	8748214	TT	GG	1946789026
SNP_P4_39869_8748287	NC_021163.1	Ca_kabuli_chr04	8748287	CC	TT	1946789028
SNP_P4_39870_8748330	NC_021163.1	Ca_kabuli_chr04	8748330	AA	GG	1946789030
SNP_P4_39871_8748521	NC_021163.1	Ca_kabuli_chr04	8748521	TT	CC	1946789032
SNP_P4_39873_8748605	NC_021163.1	Ca_kabuli_chr04	8748605	GG	AA	1946789034
SNP_P4_39874_8748630	NC_021163.1	Ca_kabuli_chr04	8748630	GG	CC	1946789036
SNP_P4_39875_8748631	NC_021163.1	Ca_kabuli_chr04	8748631	GG	AA	1946789039
SNP_P4_39876_8748865	NC_021163.1	Ca_kabuli_chr04	8748865	GG	AA	1946789041
SNP_P4_39879_8749333	NC_021163.1	Ca_kabuli_chr04	8749333	CC	AA	1946789043
SNP_P4_39880_8749392	NC_021163.1	Ca_kabuli_chr04	8749392	GG	AA	1946789045
SNP_P4_39882_8749717	NC_021163.1	Ca_kabuli_chr04	8749717	GG	AA	1946789047
SNP_P4_39883_8750027	NC_021163.1	Ca_kabuli_chr04	8750027	TT	AA	1946789049
SNP_P4_39884_8751207	NC_021163.1	Ca_kabuli_chr04	8751207	AA	TT	1946789051
SNP_P4_39885_8751323	NC_021163.1	Ca_kabuli_chr04	8751323	TT	AA	1946789053
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SNP_P4_39887_8754066	NC_021163.1	Ca_kabuli_chr04	8754066	AA	TT	1946789057
SNP_P4_39888_8754077	NC_021163.1	Ca_kabuli_chr04	8754077	GG	CC	1946789059
SNP_P4_39889_8754317	NC_021163.1	Ca_kabuli_chr04	8754317	TT	CC	1946789061
SNP_P4_39891_8756851	NC_021163.1	Ca_kabuli_chr04	8756851	TT	AA	1946789063
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SNP_P4_39894_8758351	NC_021163.1	Ca_kabuli_chr04	8758351	TT	AA	1946789067
SNP_P4_39896_8758936	NC_021163.1	Ca_kabuli_chr04	8758936	CC	TT	1946789069
SNP_P4_39897_8759230	NC_021163.1	Ca_kabuli_chr04	8759230	CC	TT	1946789071
SNP_P4_39898_8759252	NC_021163.1	Ca_kabuli_chr04	8759252	TT	CC	1946789073
SNP_P4_39899_8760112	NC_021163.1	Ca_kabuli_chr04	8760112	TT	CC	1946789075
SNP_P4_39900_8760122	NC_021163.1	Ca_kabuli_chr04	8760122	CC	GG	1946789077
SNP_P4_39901_8760944	NC_021163.1	Ca_kabuli_chr04	8760944	AA	TT	1946789079
SNP_P4_39902_8762322	NC_021163.1	Ca_kabuli_chr04	8762322	AA	GG	1946789081
SNP_P4_39903_8762628	NC_021163.1	Ca_kabuli_chr04	8762628	CC	TT	1946789083
SNP_P4_39904_8762638	NC_021163.1	Ca_kabuli_chr04	8762638	TT	AA	1946789085
SNP_P4_39905_8762938	NC_021163.1	Ca_kabuli_chr04	8762938	TT	CC	1946789087
SNP_P4_39906_8762972	NC_021163.1	Ca_kabuli_chr04	8762972	CC	TT	1946789089
SNP_P4_39907_8763061	NC_021163.1	Ca_kabuli_chr04	8763061	TT	CC	1946789091
SNP_P4_39908_8763694	NC_021163.1	Ca_kabuli_chr04	8763694	GG	TT	1946789093

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_39910_8763773	NC_021163.1	Ca_kabuli_chr04	8763773	AA	GG	1946789098
SNP_P4_39911_8765117	NC_021163.1	Ca_kabuli_chr04	8765117	AA	GG	1946789100
SNP_P4_39912_8765133	NC_021163.1	Ca_kabuli_chr04	8765133	AA	GG	1946789102
SNP_P4_39913_8765206	NC_021163.1	Ca_kabuli_chr04	8765206	GG	AA	1946789104
SNP_P4_39914_8765232	NC_021163.1	Ca_kabuli_chr04	8765232	AA	GG	1946789106
SNP_P4_39915_8765262	NC_021163.1	Ca_kabuli_chr04	8765262	GG	AA	1946789108
SNP_P4_39916_8765383	NC_021163.1	Ca_kabuli_chr04	8765383	GG	CC	1946789110
SNP_P4_39917_8766077	NC_021163.1	Ca_kabuli_chr04	8766077	TT	CC	1946789112
SNP_P4_39918_8766110	NC_021163.1	Ca_kabuli_chr04	8766110	AA	GG	1946789114
SNP_P4_39919_8766126	NC_021163.1	Ca_kabuli_chr04	8766126	CC	AA	1946789116
SNP_P4_39921_8766560	NC_021163.1	Ca_kabuli_chr04	8766560	AA	TT	1946789118
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SNP_P4_39923_8766639	NC_021163.1	Ca_kabuli_chr04	8766639	GG	CC	1946789122
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SNP_P4_39926_8766679	NC_021163.1	Ca_kabuli_chr04	8766679	CC	TT	1946789127
SNP_P4_39927_8766830	NC_021163.1	Ca_kabuli_chr04	8766830	CC	AA	1946789129
SNP_P4_39928_8766903	NC_021163.1	Ca_kabuli_chr04	8766903	AA	GG	1946789131
SNP_P4_39929_8767069	NC_021163.1	Ca_kabuli_chr04	8767069	CC	GG	1946789133
SNP_P4_39930_8767125	NC_021163.1	Ca_kabuli_chr04	8767125	AA	GG	1946789135
SNP_P4_39931_8767416	NC_021163.1	Ca_kabuli_chr04	8767416	AA	CC	1946789137
SNP_P4_39932_8767462	NC_021163.1	Ca_kabuli_chr04	8767462	GG	CC	1946789139
SNP_P4_39933_8767927	NC_021163.1	Ca_kabuli_chr04	8767927	CC	GG	1946789141
SNP_P4_39934_8768237	NC_021163.1	Ca_kabuli_chr04	8768237	CC	TT	1946789143
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SNP_P4_39940_8774125	NC_021163.1	Ca_kabuli_chr04	8774125	TT	CC	1946789153
SNP_P4_39941_8774188	NC_021163.1	Ca_kabuli_chr04	8774188	AA	GG	1946789155
SNP_P4_39942_8774189	NC_021163.1	Ca_kabuli_chr04	8774189	GG	AA	1946789157
SNP_P4_39943_8774196	NC_021163.1	Ca_kabuli_chr04	8774196	AA	TT	1946789159
SNP_P4_39944_8774215	NC_021163.1	Ca_kabuli_chr04	8774215	AA	GG	1946789161
SNP_P4_39945_8774310	NC_021163.1	Ca_kabuli_chr04	8774310	TT	CC	1946789163
SNP_P4_39946_8774316	NC_021163.1	Ca_kabuli_chr04	8774316	GG	AA	1946789165
SNP_P4_39948_8774424	NC_021163.1	Ca_kabuli_chr04	8774424	CC	TT	1946789167
SNP_P4_39949_8774437	NC_021163.1	Ca_kabuli_chr04	8774437	GG	AA	1946789169
SNP_P4_39950_8774459	NC_021163.1	Ca_kabuli_chr04	8774459	TT	GG	1946789171
SNP_P4_39951_8774465	NC_021163.1	Ca_kabuli_chr04	8774465	AA	GG	1946789173
SNP_P4_39952_8774487	NC_021163.1	Ca_kabuli_chr04	8774487	AA	TT	1946789175
SNP_P4_39953_8774494	NC_021163.1	Ca_kabuli_chr04	8774494	GG	AA	1946789177
SNP_P4_39954_8774513	NC_021163.1	Ca_kabuli_chr04	8774513	CC	TT	1946789179

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_39956_8774615	NC_021163.1	Ca_kabuli_chr04	8774615	TT	CC	1946789183
SNP_P4_39957_8775158	NC_021163.1	Ca_kabuli_chr04	8775158	GG	CC	1946789185
SNP_P4_39959_8778044	NC_021163.1	Ca_kabuli_chr04	8778044	GG	AA	1946789187
SNP_P4_39960_8778302	NC_021163.1	Ca_kabuli_chr04	8778302	GG	AA	1946789190
SNP_P4_39961_8779596	NC_021163.1	Ca_kabuli_chr04	8779596	AA	GG	1946789192
SNP_P4_39962_8780565	NC_021163.1	Ca_kabuli_chr04	8780565	AA	GG	1946789194
SNP_P4_39963_8780872	NC_021163.1	Ca_kabuli_chr04	8780872	AA	CC	1946789196
SNP_P4_39965_8780895	NC_021163.1	Ca_kabuli_chr04	8780895	TT	CC	1946789198
SNP_P4_39967_8781443	NC_021163.1	Ca_kabuli_chr04	8781443	CC	TT	1946789200
SNP_P4_39968_8781646	NC_021163.1	Ca_kabuli_chr04	8781646	GG	CC	1946789202
SNP_P4_39969_8781652	NC_021163.1	Ca_kabuli_chr04	8781652	CC	TT	1946789204
SNP_P4_39970_8781699	NC_021163.1	Ca_kabuli_chr04	8781699	GG	AA	1946789206
SNP_P4_39971_8781714	NC_021163.1	Ca_kabuli_chr04	8781714	TT	CC	1946789208
SNP_P4_39972_8781734	NC_021163.1	Ca_kabuli_chr04	8781734	AA	GG	1946789210
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SNP_P4_39974_8781754	NC_021163.1	Ca_kabuli_chr04	8781754	GG	AA	1946789214
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SNP_P4_39976_8782879	NC_021163.1	Ca_kabuli_chr04	8782879	CC	GG	1946789218
SNP_P4_39977_8783209	NC_021163.1	Ca_kabuli_chr04	8783209	GG	AA	1946789220
SNP_P4_39978_8784139	NC_021163.1	Ca_kabuli_chr04	8784139	GG	AA	1946789222
SNP_P4_39979_8785351	NC_021163.1	Ca_kabuli_chr04	8785351	TT	GG	1946789224
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SNP_P4_39987_8788873	NC_021163.1	Ca_kabuli_chr04	8788873	CC	TT	1946789239
SNP_P4_39988_8788947	NC_021163.1	Ca_kabuli_chr04	8788947	CC	AA	1946789241
SNP_P4_39989_8789659	NC_021163.1	Ca_kabuli_chr04	8789659	GG	AA	1946789243
SNP_P4_39990_8791763	NC_021163.1	Ca_kabuli_chr04	8791763	AA	CC	1946789245
SNP_P4_39991_8792076	NC_021163.1	Ca_kabuli_chr04	8792076	CC	GG	1946789248
SNP_P4_39992_8792299	NC_021163.1	Ca_kabuli_chr04	8792299	TT	CC	1946789250
SNP_P4_39993_8792390	NC_021163.1	Ca_kabuli_chr04	8792390	TT	CC	1946789252
SNP_P4_39994_8792426	NC_021163.1	Ca_kabuli_chr04	8792426	TT	CC	1946789255
SNP_P4_39995_8792636	NC_021163.1	Ca_kabuli_chr04	8792636	GG	AA	1946789257
SNP_P4_39996_8793095	NC_021163.1	Ca_kabuli_chr04	8793095	CC	GG	1946789259
SNP_P4_39997_8795320	NC_021163.1	Ca_kabuli_chr04	8795320	AA	GG	1946789261
SNP_P4_39998_8795951	NC_021163.1	Ca_kabuli_chr04	8795951	AA	CC	1946789263
SNP_P4_39999_8796425	NC_021163.1	Ca_kabuli_chr04	8796425	AA	CC	1946789265
SNP_P4_40000_8797121	NC_021163.1	Ca_kabuli_chr04	8797121	AA	GG	1946789267

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_40002_8797138	NC_021163.1	Ca_kabuli_chr04	8797138	GG	AA	1946789271
SNP_P4_40003_8797365	NC_021163.1	Ca_kabuli_chr04	8797365	TT	CC	1946789273
SNP_P4_40004_8797366	NC_021163.1	Ca_kabuli_chr04	8797366	AA	GG	1946789275
SNP_P4_40005_8797387	NC_021163.1	Ca_kabuli_chr04	8797387	GG	AA	1946789277
SNP_P4_40006_8797396	NC_021163.1	Ca_kabuli_chr04	8797396	TT	AA	1946789279
SNP_P4_40007_8797413	NC_021163.1	Ca_kabuli_chr04	8797413	GG	AA	1946789281
SNP_P4_40009_8799544	NC_021163.1	Ca_kabuli_chr04	8799544	AA	TT	1946789283
SNP_P4_40010_8800144	NC_021163.1	Ca_kabuli_chr04	8800144	AA	GG	1946789285
SNP_P4_40011_8800385	NC_021163.1	Ca_kabuli_chr04	8800385	CC	TT	1946789287
SNP_P4_40012_8800413	NC_021163.1	Ca_kabuli_chr04	8800413	CC	TT	1946789289
SNP_P4_40013_8800441	NC_021163.1	Ca_kabuli_chr04	8800441	AA	GG	1946789291
SNP_P4_40014_8800484	NC_021163.1	Ca_kabuli_chr04	8800484	TT	AA	1946789293
SNP_P4_40016_8802323	NC_021163.1	Ca_kabuli_chr04	8802323	GG	AA	1946789295
SNP_P4_40017_8802423	NC_021163.1	Ca_kabuli_chr04	8802423	GG	AA	1946789297
SNP_P4_40018_8802481	NC_021163.1	Ca_kabuli_chr04	8802481	AA	CC	1946789299
SNP_P4_40020_8802874	NC_021163.1	Ca_kabuli_chr04	8802874	GG	CC	1946789301
SNP_P4_40021_8804382	NC_021163.1	Ca_kabuli_chr04	8804382	AA	GG	1946789303
SNP_P4_40022_8804562	NC_021163.1	Ca_kabuli_chr04	8804562	GG	AA	1946789305
SNP_P4_40023_8804876	NC_021163.1	Ca_kabuli_chr04	8804876	AA	GG	1946789307
SNP_P4_40024_8808922	NC_021163.1	Ca_kabuli_chr04	8808922	CC	GG	1946789309
SNP_P4_40025_8808991	NC_021163.1	Ca_kabuli_chr04	8808991	TT	GG	1946789311
SNP_P4_40026_8809032	NC_021163.1	Ca_kabuli_chr04	8809032	TT	CC	1946789313
SNP_P4_40027_8810419	NC_021163.1	Ca_kabuli_chr04	8810419	AA	TT	1946789315
SNP_P4_40028_8810493	NC_021163.1	Ca_kabuli_chr04	8810493	AA	TT	1946789317
SNP_P4_40030_8811045	NC_021163.1	Ca_kabuli_chr04	8811045	CC	TT	1946789320
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SNP_P4_40035_8818268	NC_021163.1	Ca_kabuli_chr04	8818268	TT	CC	1946789324
SNP_P4_40036_8827106	NC_021163.1	Ca_kabuli_chr04	8827106	TT	CC	1946789326
SNP_P4_40037_8827441	NC_021163.1	Ca_kabuli_chr04	8827441	TT	CC	1946789328
SNP_P4_40038_8827469	NC_021163.1	Ca_kabuli_chr04	8827469	AA	GG	1946789330
SNP_P4_40039_8827489	NC_021163.1	Ca_kabuli_chr04	8827489	AA	GG	1946789332
SNP_P4_40040_8827954	NC_021163.1	Ca_kabuli_chr04	8827954	CC	AA	1946789334
SNP_P4_40041_8828000	NC_021163.1	Ca_kabuli_chr04	8828000	CC	TT	1946789337
SNP_P4_40042_8828015	NC_021163.1	Ca_kabuli_chr04	8828015	GG	CC	1946789339
SNP_P4_40043_8828317	NC_021163.1	Ca_kabuli_chr04	8828317	CC	GG	1946789341
SNP_P4_40044_8828361	NC_021163.1	Ca_kabuli_chr04	8828361	GG	TT	1946789343
SNP_P4_40045_8828364	NC_021163.1	Ca_kabuli_chr04	8828364	TT	GG	1946789345
SNP_P4_40047_8828434	NC_021163.1	Ca_kabuli_chr04	8828434	CC	TT	1946789347
SNP_P4_40048_8828449	NC_021163.1	Ca_kabuli_chr04	8828449	GG	AA	1946789350
SNP_P4_40049_8829367	NC_021163.1	Ca_kabuli_chr04	8829367	GG	AA	1946789352
SNP_P4_40050_8829368	NC_021163.1	Ca_kabuli_chr04	8829368	TT	CC	1946789354

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_40054_8830134	NC_021163.1	Ca_kabuli_chr04	8830134	AA	GG	1946789358
SNP_P4_40056_8830256	NC_021163.1	Ca_kabuli_chr04	8830256	GG	AA	1946789360
SNP_P4_40057_8830261	NC_021163.1	Ca_kabuli_chr04	8830261	TT	GG	1946789362
SNP_P4_40058_8830444	NC_021163.1	Ca_kabuli_chr04	8830444	AA	GG	1946789364
SNP_P4_40059_8830529	NC_021163.1	Ca_kabuli_chr04	8830529	GG	AA	1946789366
SNP_P4_40060_8830533	NC_021163.1	Ca_kabuli_chr04	8830533	TT	AA	1946789368
SNP_P4_40061_8830795	NC_021163.1	Ca_kabuli_chr04	8830795	CC	TT	1946789370
SNP_P4_40062_8831345	NC_021163.1	Ca_kabuli_chr04	8831345	CC	TT	1946789372
SNP_P4_40063_8831378	NC_021163.1	Ca_kabuli_chr04	8831378	AA	GG	1946789374
SNP_P4_40064_8831393	NC_021163.1	Ca_kabuli_chr04	8831393	AA	GG	1946789376
SNP_P4_40065_8831763	NC_021163.1	Ca_kabuli_chr04	8831763	CC	TT	1946789378
SNP_P4_40066_8832290	NC_021163.1	Ca_kabuli_chr04	8832290	GG	AA	1946789380
SNP_P4_40067_8832523	NC_021163.1	Ca_kabuli_chr04	8832523	AA	TT	1946789382
SNP_P4_40068_8833777	NC_021163.1	Ca_kabuli_chr04	8833777	GG	AA	1946789385
SNP_P4_40069_8833800	NC_021163.1	Ca_kabuli_chr04	8833800	AA	GG	1946789387
SNP_P4_40070_8833838	NC_021163.1	Ca_kabuli_chr04	8833838	TT	CC	1946789389
SNP_P4_40071_8834182	NC_021163.1	Ca_kabuli_chr04	8834182	TT	GG	1946789391
SNP_P4_40072_8834905	NC_021163.1	Ca_kabuli_chr04	8834905	GG	AA	1946789393
SNP_P4_40073_8834921	NC_021163.1	Ca_kabuli_chr04	8834921	GG	AA	1946789395
SNP_P4_40074_8835001	NC_021163.1	Ca_kabuli_chr04	8835001	CC	TT	1946789397
SNP_P4_40075_8835011	NC_021163.1	Ca_kabuli_chr04	8835011	AA	GG	1946789399
SNP_P4_40076_8835103	NC_021163.1	Ca_kabuli_chr04	8835103	TT	CC	1946789402
SNP_P4_40077_8835283	NC_021163.1	Ca_kabuli_chr04	8835283	CC	TT	1946789404
SNP_P4_40078_8835382	NC_021163.1	Ca_kabuli_chr04	8835382	AA	TT	1946789406
SNP_P4_40079_8835407	NC_021163.1	Ca_kabuli_chr04	8835407	TT	CC	1946789408
SNP_P4_40080_8836282	NC_021163.1	Ca_kabuli_chr04	8836282	TT	CC	1946789410
SNP_P4_40081_8836289	NC_021163.1	Ca_kabuli_chr04	8836289	GG	AA	1946789412
SNP_P4_40084_8837442	NC_021163.1	Ca_kabuli_chr04	8837442	TT	AA	1946789414
SNP_P4_40085_8837443	NC_021163.1	Ca_kabuli_chr04	8837443	CC	TT	1946789416
SNP_P4_40087_8839244	NC_021163.1	Ca_kabuli_chr04	8839244	AA	GG	1946789418
SNP_P4_40088_8839378	NC_021163.1	Ca_kabuli_chr04	8839378	GG	CC	1946789420
SNP_P4_40089_8839393	NC_021163.1	Ca_kabuli_chr04	8839393	CC	TT	1946789422
SNP_P4_40090_8839536	NC_021163.1	Ca_kabuli_chr04	8839536	AA	TT	1946789424
SNP_P4_40091_8840186	NC_021163.1	Ca_kabuli_chr04	8840186	CC	AA	1946789426
SNP_P4_40092_8840195	NC_021163.1	Ca_kabuli_chr04	8840195	CC	TT	1946789428
SNP_P4_40093_8840216	NC_021163.1	Ca_kabuli_chr04	8840216	CC	TT	1946789430
SNP_P4_40094_8840260	NC_021163.1	Ca_kabuli_chr04	8840260	CC	TT	1946789432
SNP_P4_40095_8840320	NC_021163.1	Ca_kabuli_chr04	8840320	AA	GG	1946789434
SNP_P4_40096_8840792	NC_021163.1	Ca_kabuli_chr04	8840792	TT	CC	1946789436
SNP_P4_40097_8840824	NC_021163.1	Ca_kabuli_chr04	8840824	CC	TT	1946789438
SNP_P4_40098_8840908	NC_021163.1	Ca_kabuli_chr04	8840908	CC	GG	1946789440

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_40101_8840981	NC_021163.1	Ca_kabuli_chr04	8840981	TT	CC	1946789444
SNP_P4_40102_8841008	NC_021163.1	Ca_kabuli_chr04	8841008	TT	AA	1946789446
SNP_P4_40103_8841055	NC_021163.1	Ca_kabuli_chr04	8841055	CC	TT	1946789449
SNP_P4_40104_8841224	NC_021163.1	Ca_kabuli_chr04	8841224	TT	CC	1946789451
SNP_P4_40105_8841236	NC_021163.1	Ca_kabuli_chr04	8841236	TT	CC	1946789453
SNP_P4_40106_8842722	NC_021163.1	Ca_kabuli_chr04	8842722	TT	GG	1946789455
SNP_P4_40107_8842723	NC_021163.1	Ca_kabuli_chr04	8842723	CC	TT	1946789457
SNP_P4_40108_8842832	NC_021163.1	Ca_kabuli_chr04	8842832	AA	GG	1946789459
SNP_P4_40109_8842981	NC_021163.1	Ca_kabuli_chr04	8842981	CC	TT	1946789461
SNP_P4_40110_8842991	NC_021163.1	Ca_kabuli_chr04	8842991	CC	AA	1946789463
SNP_P4_40111_8846317	NC_021163.1	Ca_kabuli_chr04	8846317	TT	GG	1946789465
SNP_P4_40112_8846756	NC_021163.1	Ca_kabuli_chr04	8846756	AA	TT	1946789467
SNP_P4_40113_8846835	NC_021163.1	Ca_kabuli_chr04	8846835	AA	GG	1946789469
SNP_P4_40115_8847314	NC_021163.1	Ca_kabuli_chr04	8847314	GG	AA	1946789471
SNP_P4_40116_8847384	NC_021163.1	Ca_kabuli_chr04	8847384	AA	TT	1946789474
SNP_P4_40117_8848056	NC_021163.1	Ca_kabuli_chr04	8848056	CC	TT	1946789476
SNP_P4_40119_8851231	NC_021163.1	Ca_kabuli_chr04	8851231	AA	CC	1946789478
SNP_P4_40120_8851465	NC_021163.1	Ca_kabuli_chr04	8851465	AA	TT	1946789480
SNP_P4_40121_8851466	NC_021163.1	Ca_kabuli_chr04	8851466	CC	GG	1946789482
SNP_P4_40122_8851842	NC_021163.1	Ca_kabuli_chr04	8851842	GG	AA	1946789484
SNP_P4_40123_8852222	NC_021163.1	Ca_kabuli_chr04	8852222	TT	CC	1946789486
SNP_P4_40124_8852420	NC_021163.1	Ca_kabuli_chr04	8852420	CC	TT	1946789488
SNP_P4_40125_8857257	NC_021163.1	Ca_kabuli_chr04	8857257	GG	TT	1946789490
SNP_P4_40126_8857917	NC_021163.1	Ca_kabuli_chr04	8857917	TT	CC	1946789492
SNP_P4_40127_8858161	NC_021163.1	Ca_kabuli_chr04	8858161	GG	CC	1946789494
SNP_P4_40128_8858397	NC_021163.1	Ca_kabuli_chr04	8858397	CC	GG	1946789496
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SNP_P4_40130_8858654	NC_021163.1	Ca_kabuli_chr04	8858654	GG	AA	1946789500
SNP_P4_40131_8858670	NC_021163.1	Ca_kabuli_chr04	8858670	AA	GG	1946789503
SNP_P4_40132_8860796	NC_021163.1	Ca_kabuli_chr04	8860796	GG	AA	1946789505
SNP_P4_40133_8862066	NC_021163.1	Ca_kabuli_chr04	8862066	GG	AA	1946789507
SNP_P4_40134_8864676	NC_021163.1	Ca_kabuli_chr04	8864676	GG	AA	1946789509
SNP_P4_40136_8865682	NC_021163.1	Ca_kabuli_chr04	8865682	CC	AA	1946789511
SNP_P4_40137_8866127	NC_021163.1	Ca_kabuli_chr04	8866127	CC	TT	1946789514
SNP_P4_40138_8866436	NC_021163.1	Ca_kabuli_chr04	8866436	GG	AA	1946789516
SNP_P4_40139_8866522	NC_021163.1	Ca_kabuli_chr04	8866522	AA	TT	1946789518
SNP_P4_40141_8872587	NC_021163.1	Ca_kabuli_chr04	8872587	AA	GG	1946789520
SNP_P4_40143_8876940	NC_021163.1	Ca_kabuli_chr04	8876940	GG	AA	1946789522
SNP_P4_40144_8877781	NC_021163.1	Ca_kabuli_chr04	8877781	TT	GG	1946789524
SNP_P4_40145_8877960	NC_021163.1	Ca_kabuli_chr04	8877960	CC	TT	1946789526
SNP_P4_40146_8878000	NC_021163.1	Ca_kabuli_chr04	8878000	AA	GG	1946789528

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_40148_8878019	NC_021163.1	Ca_kabuli_chr04	8878019	AA	GG	1946789532
SNP_P4_40149_8878022	NC_021163.1	Ca_kabuli_chr04	8878022	CC	TT	1946789534
SNP_P4_40150_8878030	NC_021163.1	Ca_kabuli_chr04	8878030	GG	AA	1946789536
SNP_P4_40151_8878037	NC_021163.1	Ca_kabuli_chr04	8878037	TT	CC	1946789538
SNP_P4_40152_8878052	NC_021163.1	Ca_kabuli_chr04	8878052	TT	CC	1946789540
SNP_P4_40153_8878058	NC_021163.1	Ca_kabuli_chr04	8878058	TT	CC	1946789542
SNP_P4_40154_8878059	NC_021163.1	Ca_kabuli_chr04	8878059	AA	GG	1946789544
SNP_P4_40155_8878072	NC_021163.1	Ca_kabuli_chr04	8878072	GG	AA	1946789546
SNP_P4_40156_8878086	NC_021163.1	Ca_kabuli_chr04	8878086	GG	TT	1946789548
SNP_P4_40157_8878537	NC_021163.1	Ca_kabuli_chr04	8878537	AA	GG	1946789550
SNP_P4_40158_8878860	NC_021163.1	Ca_kabuli_chr04	8878860	GG	TT	1946789552
SNP_P4_40160_8879081	NC_021163.1	Ca_kabuli_chr04	8879081	GG	AA	1946789554
SNP_P4_40161_8879106	NC_021163.1	Ca_kabuli_chr04	8879106	CC	GG	1946789556
SNP_P4_40162_8879110	NC_021163.1	Ca_kabuli_chr04	8879110	TT	GG	1946789558
SNP_P4_40163_8879115	NC_021163.1	Ca_kabuli_chr04	8879115	AA	TT	1946789560
SNP_P4_40164_8879130	NC_021163.1	Ca_kabuli_chr04	8879130	TT	AA	1946789562
SNP_P4_40165_8880962	NC_021163.1	Ca_kabuli_chr04	8880962	GG	AA	1946789564
SNP_P4_40166_8881177	NC_021163.1	Ca_kabuli_chr04	8881177	TT	AA	1946789566
SNP_P4_40167_8881702	NC_021163.1	Ca_kabuli_chr04	8881702	CC	TT	1946789568
SNP_P4_40168_8881710	NC_021163.1	Ca_kabuli_chr04	8881710	TT	AA	1946789571
SNP_P4_40169_8881726	NC_021163.1	Ca_kabuli_chr04	8881726	GG	AA	1946789573
SNP_P4_40170_8881732	NC_021163.1	Ca_kabuli_chr04	8881732	AA	TT	1946789574
SNP_P4_40171_8881766	NC_021163.1	Ca_kabuli_chr04	8881766	TT	GG	1946789576
SNP_P4_40172_8881987	NC_021163.1	Ca_kabuli_chr04	8881987	AA	GG	1946789578
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SNP_P4_40176_8884850	NC_021163.1	Ca_kabuli_chr04	8884850	GG	TT	1946789584
SNP_P4_40177_8884871	NC_021163.1	Ca_kabuli_chr04	8884871	TT	CC	1946789586
SNP_P4_40178_8884886	NC_021163.1	Ca_kabuli_chr04	8884886	GG	AA	1946789588
SNP_P4_40179_8885076	NC_021163.1	Ca_kabuli_chr04	8885076	AA	GG	1946789590
SNP_P4_40180_8885319	NC_021163.1	Ca_kabuli_chr04	8885319	GG	AA	1946789592
SNP_P4_40181_8885370	NC_021163.1	Ca_kabuli_chr04	8885370	TT	CC	1946789593
SNP_P4_40182_8885378	NC_021163.1	Ca_kabuli_chr04	8885378	GG	AA	1946789595
SNP_P4_40183_8885379	NC_021163.1	Ca_kabuli_chr04	8885379	AA	TT	1946789597
SNP_P4_40184_8885635	NC_021163.1	Ca_kabuli_chr04	8885635	AA	GG	1946789599
SNP_P4_40187_8887545	NC_021163.1	Ca_kabuli_chr04	8887545	AA	CC	1946789601
SNP_P4_40188_8887555	NC_021163.1	Ca_kabuli_chr04	8887555	CC	AA	1946789603
SNP_P4_40190_8887714	NC_021163.1	Ca_kabuli_chr04	8887714	TT	CC	1946789606
SNP_P4_40191_8887719	NC_021163.1	Ca_kabuli_chr04	8887719	CC	AA	1946789608
SNP_P4_40192_8887772	NC_021163.1	Ca_kabuli_chr04	8887772	TT	AA	1946789610
SNP_P4_40193_8887813	NC_021163.1	Ca_kabuli_chr04	8887813	TT	AA	1946789612

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_40196_8888717	NC_021163.1	Ca_kabuli_chr04	8888717	GG	AA	1946789617
SNP_P4_40197_8888729	NC_021163.1	Ca_kabuli_chr04	8888729	GG	TT	1946789618
SNP_P4_40198_8889025	NC_021163.1	Ca_kabuli_chr04	8889025	CC	AA	1946789620
SNP_P4_40199_8889031	NC_021163.1	Ca_kabuli_chr04	8889031	CC	TT	1946789622
SNP_P4_40200_8889186	NC_021163.1	Ca_kabuli_chr04	8889186	CC	TT	1946789624
SNP_P4_40201_8889226	NC_021163.1	Ca_kabuli_chr04	8889226	CC	TT	1946789627
SNP_P4_40202_8889612	NC_021163.1	Ca_kabuli_chr04	8889612	GG	AA	1946789629
SNP_P4_40203_8889614	NC_021163.1	Ca_kabuli_chr04	8889614	TT	CC	1946789631
SNP_P4_40204_8889624	NC_021163.1	Ca_kabuli_chr04	8889624	AA	TT	1946789633
SNP_P4_40205_8889750	NC_021163.1	Ca_kabuli_chr04	8889750	TT	CC	1946789636
SNP_P4_40207_8889853	NC_021163.1	Ca_kabuli_chr04	8889853	AA	GG	1946789638
SNP_P4_40208_8889934	NC_021163.1	Ca_kabuli_chr04	8889934	TT	CC	1946789640
SNP_P4_40210_8891073	NC_021163.1	Ca_kabuli_chr04	8891073	TT	AA	1946789642
SNP_P4_40211_8891096	NC_021163.1	Ca_kabuli_chr04	8891096	CC	TT	1946789644
SNP_P4_40212_8891362	NC_021163.1	Ca_kabuli_chr04	8891362	AA	TT	1946789647
SNP_P4_40214_8892280	NC_021163.1	Ca_kabuli_chr04	8892280	CC	AA	1946789649
SNP_P4_40215_8894108	NC_021163.1	Ca_kabuli_chr04	8894108	AA	GG	1946789651
SNP_P4_40217_8895458	NC_021163.1	Ca_kabuli_chr04	8895458	CC	TT	1946789653
SNP_P4_40218_8896762	NC_021163.1	Ca_kabuli_chr04	8896762	CC	TT	1946789655
SNP_P4_40220_8897630	NC_021163.1	Ca_kabuli_chr04	8897630	TT	AA	1946789657
SNP_P4_40221_8898696	NC_021163.1	Ca_kabuli_chr04	8898696	CC	AA	1946789659
SNP_P4_40222_8903652	NC_021163.1	Ca_kabuli_chr04	8903652	TT	AA	1946789661
SNP_P4_40223_8903682	NC_021163.1	Ca_kabuli_chr04	8903682	GG	TT	1946789663
SNP_P4_40224_8903733	NC_021163.1	Ca_kabuli_chr04	8903733	GG	AA	1946789665
SNP_P4_40225_8903954	NC_021163.1	Ca_kabuli_chr04	8903954	GG	CC	1946789667
SNP_P4_40227_8945498	NC_021163.1	Ca_kabuli_chr04	8945498	GG	AA	1946789669
SNP_P4_40230_9000460	NC_021163.1	Ca_kabuli_chr04	9000460	CC	TT	1946789671
SNP_P4_40232_9026705	NC_021163.1	Ca_kabuli_chr04	9026705	CC	TT	1946789673
SNP_P4_40234_9034136	NC_021163.1	Ca_kabuli_chr04	9034136	GG	AA	1946789676
SNP_P4_40235_9041257	NC_021163.1	Ca_kabuli_chr04	9041257	CC	GG	1946789678
SNP_P4_40237_9059759	NC_021163.1	Ca_kabuli_chr04	9059759	CC	TT	1946789680
SNP_P4_40238_9060627	NC_021163.1	Ca_kabuli_chr04	9060627	AA	CC	1946789682
SNP_P4_40239_9060674	NC_021163.1	Ca_kabuli_chr04	9060674	TT	CC	1946789684
SNP_P4_40241_9065856	NC_021163.1	Ca_kabuli_chr04	9065856	TT	AA	1946789686
SNP_P4_40242_9066145	NC_021163.1	Ca_kabuli_chr04	9066145	TT	GG	1946789689
SNP_P4_40244_9066488	NC_021163.1	Ca_kabuli_chr04	9066488	TT	CC	1946789691
SNP_P4_40246_9066622	NC_021163.1	Ca_kabuli_chr04	9066622	GG	AA	1946789693
SNP_P4_40248_9075890	NC_021163.1	Ca_kabuli_chr04	9075890	AA	TT	1946789695
SNP_P4_40249_9077616	NC_021163.1	Ca_kabuli_chr04	9077616	CC	TT	1946789697
SNP_P4_40251_9083320	NC_021163.1	Ca_kabuli_chr04	9083320	AA	GG	1946789699

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_40253_9083720	NC_021163.1	Ca_kabuli_chr04	9083720	CC	TT	1946789703
SNP_P4_40254_9126710	NC_021163.1	Ca_kabuli_chr04	9126710	GG	AA	1946789705
SNP_P4_40255_9126907	NC_021163.1	Ca_kabuli_chr04	9126907	TT	AA	1946789707
SNP_P4_40256_9131405	NC_021163.1	Ca_kabuli_chr04	9131405	TT	AA	1946789709
SNP_P4_40257_9131408	NC_021163.1	Ca_kabuli_chr04	9131408	TT	CC	1946789711
SNP_P4_40258_9147377	NC_021163.1	Ca_kabuli_chr04	9147377	TT	CC	1946789714
SNP_P4_40259_9147380	NC_021163.1	Ca_kabuli_chr04	9147380	AA	GG	1946789716
SNP_P4_40260_9156085	NC_021163.1	Ca_kabuli_chr04	9156085	CC	TT	1946789718
SNP_P4_40261_9157545	NC_021163.1	Ca_kabuli_chr04	9157545	AA	GG	1946789720
SNP_P4_40262_9157793	NC_021163.1	Ca_kabuli_chr04	9157793	CC	TT	1946789722
SNP_P4_40263_9168500	NC_021163.1	Ca_kabuli_chr04	9168500	GG	AA	1946789724
SNP_P4_40264_9172944	NC_021163.1	Ca_kabuli_chr04	9172944	CC	TT	1946789726
SNP_P4_40265_9176230	NC_021163.1	Ca_kabuli_chr04	9176230	CC	TT	1946789728
SNP_P4_40266_9176260	NC_021163.1	Ca_kabuli_chr04	9176260	TT	CC	1946789730
SNP_P4_40267_9177793	NC_021163.1	Ca_kabuli_chr04	9177793	CC	TT	1946789732
SNP_P4_40268_9177995	NC_021163.1	Ca_kabuli_chr04	9177995	TT	CC	1946789735
SNP_P4_40270_9206483	NC_021163.1	Ca_kabuli_chr04	9206483	AA	TT	1946789737
SNP_P4_40271_9211150	NC_021163.1	Ca_kabuli_chr04	9211150	TT	GG	1946789739
SNP_P4_40272_9222727	NC_021163.1	Ca_kabuli_chr04	9222727	TT	CC	1946789741
SNP_P4_40275_9230158	NC_021163.1	Ca_kabuli_chr04	9230158	AA	CC	1946789743
SNP_P4_40276_9233240	NC_021163.1	Ca_kabuli_chr04	9233240	AA	GG	1946789745
SNP_P4_40277_9233282	NC_021163.1	Ca_kabuli_chr04	9233282	AA	GG	1946789747
SNP_P4_40278_9233342	NC_021163.1	Ca_kabuli_chr04	9233342	TT	AA	1946789749
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SNP_P4_40281_9233438	NC_021163.1	Ca_kabuli_chr04	9233438	AA	GG	1946789755
SNP_P4_40282_9233485	NC_021163.1	Ca_kabuli_chr04	9233485	GG	AA	1946789758
SNP_P4_40283_9233490	NC_021163.1	Ca_kabuli_chr04	9233490	TT	GG	1946789760
SNP_P4_40284_9277638	NC_021163.1	Ca_kabuli_chr04	9277638	AA	GG	1946789762
SNP_P4_40285_9285542	NC_021163.1	Ca_kabuli_chr04	9285542	AA	TT	1946789765
SNP_P4_40286_9285544	NC_021163.1	Ca_kabuli_chr04	9285544	TT	CC	1946789767
SNP_P4_40287_9292463	NC_021163.1	Ca_kabuli_chr04	9292463	AA	GG	1946789769
SNP_P4_40288_9300626	NC_021163.1	Ca_kabuli_chr04	9300626	AA	GG	1946789771
SNP_P4_40290_9347286	NC_021163.1	Ca_kabuli_chr04	9347286	TT	AA	1946789773
SNP_P4_40291_9361081	NC_021163.1	Ca_kabuli_chr04	9361081	GG	AA	1946789775
SNP_P4_40292_9363698	NC_021163.1	Ca_kabuli_chr04	9363698	TT	AA	1946789777
SNP_P4_40293_9370406	NC_021163.1	Ca_kabuli_chr04	9370406	AA	GG	1946789779
SNP_P4_40295_9371601	NC_021163.1	Ca_kabuli_chr04	9371601	TT	AA	1946789782
SNP_P4_40296_9372462	NC_021163.1	Ca_kabuli_chr04	9372462	GG	AA	1946789784
SNP_P4_40297_9372469	NC_021163.1	Ca_kabuli_chr04	9372469	GG	AA	1946789786
SNP_P4_40299_9387809	NC_021163.1	Ca_kabuli_chr04	9387809	GG	AA	1946789788

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_40301_9387894	NC_021163.1	Ca_kabuli_chr04	9387894	GG	TT	1946789792
SNP_P4_40302_9387971	NC_021163.1	Ca_kabuli_chr04	9387971	TT	CC	1946789794
SNP_P4_40303_9387977	NC_021163.1	Ca_kabuli_chr04	9387977	AA	CC	1946789796
SNP_P4_40304_9388158	NC_021163.1	Ca_kabuli_chr04	9388158	GG	AA	1946789798
SNP_P4_40305_9388174	NC_021163.1	Ca_kabuli_chr04	9388174	GG	CC	1946789800
SNP_P4_40306_9388180	NC_021163.1	Ca_kabuli_chr04	9388180	TT	AA	1946789802
SNP_P4_40307_9388271	NC_021163.1	Ca_kabuli_chr04	9388271	GG	TT	1946789804
SNP_P4_40308_9388273	NC_021163.1	Ca_kabuli_chr04	9388273	TT	CC	1946789807
SNP_P4_40309_9435002	NC_021163.1	Ca_kabuli_chr04	9435002	GG	AA	1946789809
SNP_P4_40310_9453651	NC_021163.1	Ca_kabuli_chr04	9453651	CC	TT	1946789811
SNP_P4_40313_9477167	NC_021163.1	Ca_kabuli_chr04	9477167	GG	AA	1946789813
SNP_P4_40315_9547678	NC_021163.1	Ca_kabuli_chr04	9547678	CC	TT	1946789815
SNP_P4_40316_9552151	NC_021163.1	Ca_kabuli_chr04	9552151	CC	TT	1946789817
SNP_P4_40317_9552959	NC_021163.1	Ca_kabuli_chr04	9552959	TT	AA	1946789819
SNP_P4_40318_9555442	NC_021163.1	Ca_kabuli_chr04	9555442	CC	TT	1946789821
SNP_P4_40319_9573798	NC_021163.1	Ca_kabuli_chr04	9573798	GG	TT	1946789823
SNP_P4_40321_9577323	NC_021163.1	Ca_kabuli_chr04	9577323	GG	AA	1946789825
SNP_P4_40322_9580149	NC_021163.1	Ca_kabuli_chr04	9580149	AA	CC	1946789827
SNP_P4_40324_9617996	NC_021163.1	Ca_kabuli_chr04	9617996	TT	AA	1946789829
SNP_P4_40326_9627836	NC_021163.1	Ca_kabuli_chr04	9627836	AA	GG	1946789831
SNP_P4_40327_9627880	NC_021163.1	Ca_kabuli_chr04	9627880	AA	CC	1946789833
SNP_P4_40328_9627914	NC_021163.1	Ca_kabuli_chr04	9627914	TT	CC	1946789835
SNP_P4_40329_9628068	NC_021163.1	Ca_kabuli_chr04	9628068	AA	GG	1946789837
SNP_P4_40330_9628094	NC_021163.1	Ca_kabuli_chr04	9628094	CC	TT	1946789839
SNP_P4_40331_9628114	NC_021163.1	Ca_kabuli_chr04	9628114	GG	CC	1946789841
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SNP_P4_40333_9628531	NC_021163.1	Ca_kabuli_chr04	9628531	GG	AA	1946789845
SNP_P4_40334_9628564	NC_021163.1	Ca_kabuli_chr04	9628564	AA	TT	1946789847
SNP_P4_40335_9628577	NC_021163.1	Ca_kabuli_chr04	9628577	AA	GG	1946789849
SNP_P4_40336_9628578	NC_021163.1	Ca_kabuli_chr04	9628578	AA	GG	1946789851
SNP_P4_40337_9628591	NC_021163.1	Ca_kabuli_chr04	9628591	CC	TT	1946789853
SNP_P4_40338_9628622	NC_021163.1	Ca_kabuli_chr04	9628622	GG	AA	1946789855
SNP_P4_40339_9628675	NC_021163.1	Ca_kabuli_chr04	9628675	TT	CC	1946789857
SNP_P4_40340_9628716	NC_021163.1	Ca_kabuli_chr04	9628716	CC	TT	1946789859
SNP_P4_40341_9628730	NC_021163.1	Ca_kabuli_chr04	9628730	AA	GG	1946789861
SNP_P4_40342_9628733	NC_021163.1	Ca_kabuli_chr04	9628733	TT	AA	1946789863
SNP_P4_40343_9628779	NC_021163.1	Ca_kabuli_chr04	9628779	CC	TT	1946789866
SNP_P4_40344_9628805	NC_021163.1	Ca_kabuli_chr04	9628805	AA	TT	1946789868
SNP_P4_40345_9628818	NC_021163.1	Ca_kabuli_chr04	9628818	CC	TT	1946789870
SNP_P4_40346_9628831	NC_021163.1	Ca_kabuli_chr04	9628831	AA	TT	1946789872
SNP_P4_40347_9628871	NC_021163.1	Ca_kabuli_chr04	9628871	TT	GG	1946789874

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_40350_9628972	NC_021163.1	Ca_kabuli_chr04	9628972	CC	AA	1946789880
SNP_P4_40351_9629076	NC_021163.1	Ca_kabuli_chr04	9629076	TT	CC	1946789882
SNP_P4_40352_9629079	NC_021163.1	Ca_kabuli_chr04	9629079	AA	TT	1946789884
SNP_P4_40353_9629128	NC_021163.1	Ca_kabuli_chr04	9629128	GG	AA	1946789886
SNP_P4_40354_9629129	NC_021163.1	Ca_kabuli_chr04	9629129	AA	GG	1946789888
SNP_P4_40355_9629167	NC_021163.1	Ca_kabuli_chr04	9629167	TT	GG	1946789890
SNP_P4_40356_9629168	NC_021163.1	Ca_kabuli_chr04	9629168	GG	TT	1946789892
SNP_P4_40357_9629230	NC_021163.1	Ca_kabuli_chr04	9629230	GG	CC	1946789894
SNP_P4_40358_9629237	NC_021163.1	Ca_kabuli_chr04	9629237	AA	TT	1946789896
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SNP_P4_40360_9629263	NC_021163.1	Ca_kabuli_chr04	9629263	AA	GG	1946789900
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SNP_P4_40362_9629279	NC_021163.1	Ca_kabuli_chr04	9629279	AA	GG	1946789904
SNP_P4_40363_9629374	NC_021163.1	Ca_kabuli_chr04	9629374	CC	TT	1946789906
SNP_P4_40364_9629375	NC_021163.1	Ca_kabuli_chr04	9629375	GG	AA	1946789908
SNP_P4_40365_9629402	NC_021163.1	Ca_kabuli_chr04	9629402	TT	CC	1946789910
SNP_P4_40366_9629417	NC_021163.1	Ca_kabuli_chr04	9629417	TT	GG	1946789912
SNP_P4_40367_9629477	NC_021163.1	Ca_kabuli_chr04	9629477	CC	TT	1946789914
SNP_P4_40368_9629502	NC_021163.1	Ca_kabuli_chr04	9629502	AA	GG	1946789916
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SNP_P4_40371_9629562	NC_021163.1	Ca_kabuli_chr04	9629562	TT	CC	1946789922
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SNP_P4_40376_9629691	NC_021163.1	Ca_kabuli_chr04	9629691	TT	CC	1946789933
SNP_P4_40377_9629749	NC_021163.1	Ca_kabuli_chr04	9629749	AA	GG	1946789935
SNP_P4_40378_9629819	NC_021163.1	Ca_kabuli_chr04	9629819	CC	TT	1946789937
SNP_P4_40379_9629825	NC_021163.1	Ca_kabuli_chr04	9629825	CC	GG	1946789939
SNP_P4_40380_9629841	NC_021163.1	Ca_kabuli_chr04	9629841	TT	CC	1946789941
SNP_P4_40381_9629855	NC_021163.1	Ca_kabuli_chr04	9629855	AA	TT	1946789943
SNP_P4_40383_9629887	NC_021163.1	Ca_kabuli_chr04	9629887	GG	TT	1946789945
SNP_P4_40384_9629924	NC_021163.1	Ca_kabuli_chr04	9629924	AA	GG	1946789947
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SNP_P4_40387_9629978	NC_021163.1	Ca_kabuli_chr04	9629978	TT	GG	1946789953
SNP_P4_40388_9629995	NC_021163.1	Ca_kabuli_chr04	9629995	AA	CC	1946789955
SNP_P4_40389_9630050	NC_021163.1	Ca_kabuli_chr04	9630050	AA	TT	1946789957
SNP_P4_40390_9630065	NC_021163.1	Ca_kabuli_chr04	9630065	CC	TT	1946789959

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_40394_9630193	NC_021163.1	Ca_kabuli_chr04	9630193	CC	GG	1946789965
SNP_P4_40395_9630199	NC_021163.1	Ca_kabuli_chr04	9630199	TT	GG	1946789967
SNP_P4_40396_9630210	NC_021163.1	Ca_kabuli_chr04	9630210	GG	TT	1946789969
SNP_P4_40397_9630214	NC_021163.1	Ca_kabuli_chr04	9630214	AA	GG	1946789971
SNP_P4_40398_9630268	NC_021163.1	Ca_kabuli_chr04	9630268	CC	AA	1946789973
SNP_P4_40399_9630282	NC_021163.1	Ca_kabuli_chr04	9630282	TT	CC	1946789975
SNP_P4_40401_9630356	NC_021163.1	Ca_kabuli_chr04	9630356	GG	TT	1946789977
SNP_P4_40402_9630406	NC_021163.1	Ca_kabuli_chr04	9630406	TT	AA	1946789979
SNP_P4_40403_9630414	NC_021163.1	Ca_kabuli_chr04	9630414	CC	GG	1946789982
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SNP_P4_40406_9630481	NC_021163.1	Ca_kabuli_chr04	9630481	AA	GG	1946789988
SNP_P4_40407_9630495	NC_021163.1	Ca_kabuli_chr04	9630495	GG	AA	1946789990
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SNP_P4_40410_9630526	NC_021163.1	Ca_kabuli_chr04	9630526	AA	GG	1946789996
SNP_P4_40411_9630530	NC_021163.1	Ca_kabuli_chr04	9630530	GG	TT	1946789998
SNP_P4_40412_9630563	NC_021163.1	Ca_kabuli_chr04	9630563	CC	TT	1946790000
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SNP_P4_40414_9630676	NC_021163.1	Ca_kabuli_chr04	9630676	TT	CC	1946790004
SNP_P4_40415_9630679	NC_021163.1	Ca_kabuli_chr04	9630679	TT	CC	1946790006
SNP_P4_40416_9630698	NC_021163.1	Ca_kabuli_chr04	9630698	AA	GG	1946790008
SNP_P4_40417_9630780	NC_021163.1	Ca_kabuli_chr04	9630780	GG	TT	1946790010
SNP_P4_40418_9630902	NC_021163.1	Ca_kabuli_chr04	9630902	AA	TT	1946790012
SNP_P4_40420_9631519	NC_021163.1	Ca_kabuli_chr04	9631519	GG	CC	1946790014
SNP_P4_40421_9631985	NC_021163.1	Ca_kabuli_chr04	9631985	GG	AA	1946790016
SNP_P4_40422_9631992	NC_021163.1	Ca_kabuli_chr04	9631992	TT	CC	1946790018
SNP_P4_40423_9632060	NC_021163.1	Ca_kabuli_chr04	9632060	GG	CC	1946790020
SNP_P4_40424_9632311	NC_021163.1	Ca_kabuli_chr04	9632311	TT	AA	1946790022
SNP_P4_40426_9632809	NC_021163.1	Ca_kabuli_chr04	9632809	AA	TT	1946790024
SNP_P4_40427_9632840	NC_021163.1	Ca_kabuli_chr04	9632840	TT	AA	1946790026
SNP_P4_40428_9632849	NC_021163.1	Ca_kabuli_chr04	9632849	AA	GG	1946790028
SNP_P4_40429_9632892	NC_021163.1	Ca_kabuli_chr04	9632892	AA	CC	1946790030
SNP_P4_40430_9632908	NC_021163.1	Ca_kabuli_chr04	9632908	TT	AA	1946790032
SNP_P4_40431_9632955	NC_021163.1	Ca_kabuli_chr04	9632955	TT	AA	1946790034
SNP_P4_40432_9632986	NC_021163.1	Ca_kabuli_chr04	9632986	AA	GG	1946790036
SNP_P4_40433_9632990	NC_021163.1	Ca_kabuli_chr04	9632990	GG	TT	1946790038
SNP_P4_40434_9633006	NC_021163.1	Ca_kabuli_chr04	9633006	CC	GG	1946790040
SNP_P4_40435_9633046	NC_021163.1	Ca_kabuli_chr04	9633046	GG	AA	1946790042
SNP_P4_40436_9633055	NC_021163.1	Ca_kabuli_chr04	9633055	AA	GG	1946790044

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_40438_9633842	NC_021163.1	Ca_kabuli_chr04	9633842	TT	AA	1946790046
SNP_P4_40439_9633853	NC_021163.1	Ca_kabuli_chr04	9633853	CC	AA	1946790048
SNP_P4_40440_9633935	NC_021163.1	Ca_kabuli_chr04	9633935	TT	GG	1946790050
SNP_P4_40441_9633954	NC_021163.1	Ca_kabuli_chr04	9633954	CC	AA	1946790053
SNP_P4_40442_9633978	NC_021163.1	Ca_kabuli_chr04	9633978	GG	AA	1946790055
SNP_P4_40443_9658306	NC_021163.1	Ca_kabuli_chr04	9658306	TT	AA	1946790057
SNP_P4_40445_9677618	NC_021163.1	Ca_kabuli_chr04	9677618	CC	TT	1946790059
SNP_P4_40447_9685877	NC_021163.1	Ca_kabuli_chr04	9685877	AA	TT	1946790061
SNP_P4_40448_9693394	NC_021163.1	Ca_kabuli_chr04	9693394	GG	AA	1946790063
SNP_P4_40450_9708945	NC_021163.1	Ca_kabuli_chr04	9708945	TT	AA	1946790065
SNP_P4_40451_9719320	NC_021163.1	Ca_kabuli_chr04	9719320	TT	AA	1946790067
SNP_P4_40452_9719321	NC_021163.1	Ca_kabuli_chr04	9719321	AA	TT	1946790069
SNP_P4_40453_9726008	NC_021163.1	Ca_kabuli_chr04	9726008	AA	GG	1946790071
SNP_P4_40454_9726199	NC_021163.1	Ca_kabuli_chr04	9726199	AA	GG	1946790073
SNP_P4_40455_9726356	NC_021163.1	Ca_kabuli_chr04	9726356	CC	TT	1946790075
SNP_P4_40456_9726364	NC_021163.1	Ca_kabuli_chr04	9726364	AA	GG	1946790077
SNP_P4_40457_9726390	NC_021163.1	Ca_kabuli_chr04	9726390	TT	CC	1946790079
SNP_P4_40458_9726430	NC_021163.1	Ca_kabuli_chr04	9726430	AA	TT	1946790081
SNP_P4_40459_9726681	NC_021163.1	Ca_kabuli_chr04	9726681	CC	TT	1946790083
SNP_P4_40460_9726719	NC_021163.1	Ca_kabuli_chr04	9726719	AA	GG	1946790085
SNP_P4_40461_9726852	NC_021163.1	Ca_kabuli_chr04	9726852	GG	AA	1946790088
SNP_P4_40463_9727491	NC_021163.1	Ca_kabuli_chr04	9727491	CC	TT	1946790090
SNP_P4_40467_9792713	NC_021163.1	Ca_kabuli_chr04	9792713	TT	CC	1946790092
SNP_P4_40468_9792744	NC_021163.1	Ca_kabuli_chr04	9792744	GG	CC	1946790094
SNP_P4_40471_9866135	NC_021163.1	Ca_kabuli_chr04	9866135	AA	TT	1946790096
SNP_P4_40472_9880276	NC_021163.1	Ca_kabuli_chr04	9880276	TT	AA	1946790098
SNP_P4_40473_9922920	NC_021163.1	Ca_kabuli_chr04	9922920	TT	AA	1946790100
SNP_P4_40474_9935665	NC_021163.1	Ca_kabuli_chr04	9935665	CC	TT	1946790102
SNP_P4_40475_9960842	NC_021163.1	Ca_kabuli_chr04	9960842	GG	TT	1946790104
SNP_P4_40477_10031364	NC_021163.1	Ca_kabuli_chr04	10031364	GG	TT	1946790106
SNP_P4_40479_10035370	NC_021163.1	Ca_kabuli_chr04	10035370	TT	AA	1946790108
SNP_P4_40480_10035395	NC_021163.1	Ca_kabuli_chr04	10035395	CC	TT	1946790110
SNP_P4_40481_10035452	NC_021163.1	Ca_kabuli_chr04	10035452	TT	CC	1946790112
SNP_P4_40482_10035511	NC_021163.1	Ca_kabuli_chr04	10035511	CC	GG	1946790114
SNP_P4_40484_10036376	NC_021163.1	Ca_kabuli_chr04	10036376	TT	CC	1946790116
SNP_P4_40485_10063728	NC_021163.1	Ca_kabuli_chr04	10063728	AA	TT	1946790118
SNP_P4_40486_10070104	NC_021163.1	Ca_kabuli_chr04	10070104	CC	TT	1946790120
SNP_P4_40487_10073518	NC_021163.1	Ca_kabuli_chr04	10073518	GG	AA	1946790122
SNP_P4_40489_10107258	NC_021163.1	Ca_kabuli_chr04	10107258	CC	TT	1946790124
SNP_P4_40490_10122579	NC_021163.1	Ca_kabuli_chr04	10122579	CC	TT	1946790126
SNP_P4_40491_10129660	NC_021163.1	Ca_kabuli_chr04	10129660	TT	CC	1946790128
SNP_P4_40492_10129663	NC_021163.1	Ca_kabuli_chr04	10129663	TT	AA	1946790131

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_40494_10139273	NC_021163.1	Ca_kabuli_chr04	10139273	TT	AA	1946790133
SNP_P4_40496_10158026	NC_021163.1	Ca_kabuli_chr04	10158026	AA	GG	1946790135
SNP_P4_40498_10205947	NC_021163.1	Ca_kabuli_chr04	10205947	AA	GG	1946790137
SNP_P4_40502_10238732	NC_021163.1	Ca_kabuli_chr04	10238732	TT	CC	1946790139
SNP_P4_40503_10240534	NC_021163.1	Ca_kabuli_chr04	10240534	GG	AA	1946790141
SNP_P4_40504_10240756	NC_021163.1	Ca_kabuli_chr04	10240756	GG	TT	1946790143
SNP_P4_40507_10253310	NC_021163.1	Ca_kabuli_chr04	10253310	TT	GG	1946790145
SNP_P4_40508_10253324	NC_021163.1	Ca_kabuli_chr04	10253324	CC	GG	1946790147
SNP_P4_40509_10253370	NC_021163.1	Ca_kabuli_chr04	10253370	CC	AA	1946790149
SNP_P4_40510_10253569	NC_021163.1	Ca_kabuli_chr04	10253569	AA	GG	1946790151
SNP_P4_40512_10255449	NC_021163.1	Ca_kabuli_chr04	10255449	CC	TT	1946790153
SNP_P4_40513_10255857	NC_021163.1	Ca_kabuli_chr04	10255857	AA	GG	1946790155
SNP_P4_40514_10256874	NC_021163.1	Ca_kabuli_chr04	10256874	TT	GG	1946790157
SNP_P4_40516_10278083	NC_021163.1	Ca_kabuli_chr04	10278083	TT	CC	1946790159
SNP_P4_40517_10278607	NC_021163.1	Ca_kabuli_chr04	10278607	GG	AA	1946790161
SNP_P4_40518_10305402	NC_021163.1	Ca_kabuli_chr04	10305402	GG	TT	1946790163
SNP_P4_40519_10312295	NC_021163.1	Ca_kabuli_chr04	10312295	GG	TT	1946790165
SNP_P4_40520_10319935	NC_021163.1	Ca_kabuli_chr04	10319935	AA	GG	1946790167
SNP_P4_40522_10368349	NC_021163.1	Ca_kabuli_chr04	10368349	CC	TT	1946790169
SNP_P4_40523_10374911	NC_021163.1	Ca_kabuli_chr04	10374911	CC	TT	1946790171
SNP_P4_40524_10374933	NC_021163.1	Ca_kabuli_chr04	10374933	TT	CC	1946790173
SNP_P4_40525_10378823	NC_021163.1	Ca_kabuli_chr04	10378823	TT	CC	1946790175
SNP_P4_40526_10452408	NC_021163.1	Ca_kabuli_chr04	10452408	CC	TT	1946790177
SNP_P4_40529_10460294	NC_021163.1	Ca_kabuli_chr04	10460294	TT	AA	1946790179
SNP_P4_40530_10508502	NC_021163.1	Ca_kabuli_chr04	10508502	GG	AA	1946790181
SNP_P4_40531_10524389	NC_021163.1	Ca_kabuli_chr04	10524389	GG	AA	1946790183
SNP_P4_40533_10555869	NC_021163.1	Ca_kabuli_chr04	10555869	TT	GG	1946790185
SNP_P4_40534_10555870	NC_021163.1	Ca_kabuli_chr04	10555870	AA	GG	1946790187
SNP_P4_40535_10568701	NC_021163.1	Ca_kabuli_chr04	10568701	GG	AA	1946790189
SNP_P4_40536_10571898	NC_021163.1	Ca_kabuli_chr04	10571898	GG	AA	1946790191
SNP_P4_40537_10576490	NC_021163.1	Ca_kabuli_chr04	10576490	CC	AA	1946790193
SNP_P4_40539_10589505	NC_021163.1	Ca_kabuli_chr04	10589505	CC	TT	1946790195
SNP_P4_40540_10600158	NC_021163.1	Ca_kabuli_chr04	10600158	TT	CC	1946790197
SNP_P4_40544_10663329	NC_021163.1	Ca_kabuli_chr04	10663329	GG	AA	1946790199
SNP_P4_40545_10666731	NC_021163.1	Ca_kabuli_chr04	10666731	CC	AA	1946790201
SNP_P4_40546_10705802	NC_021163.1	Ca_kabuli_chr04	10705802	CC	TT	1946790203
SNP_P4_40547_10741327	NC_021163.1	Ca_kabuli_chr04	10741327	GG	AA	1946790205
SNP_P4_40548_10757937	NC_021163.1	Ca_kabuli_chr04	10757937	TT	GG	1946790207
SNP_P4_40549_10757939	NC_021163.1	Ca_kabuli_chr04	10757939	TT	GG	1946790210
SNP_P4_40550_10758518	NC_021163.1	Ca_kabuli_chr04	10758518	TT	CC	1946790212
SNP_P4_40551_10781192	NC_021163.1	Ca_kabuli_chr04	10781192	TT	GG	1946790214
SNP_P4_40553_10791691	NC_021163.1	Ca_kabuli_chr04	10791691	CC	TT	1946790216

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_40555_10821907	NC_021163.1	Ca_kabuli_chr04	10821907	AA	TT	1946790218
SNP_P4_40556_10829189	NC_021163.1	Ca_kabuli_chr04	10829189	TT	CC	1946790220
SNP_P4_40557_10866102	NC_021163.1	Ca_kabuli_chr04	10866102	GG	AA	1946790222
SNP_P4_40558_10879065	NC_021163.1	Ca_kabuli_chr04	10879065	CC	AA	1946790224
SNP_P4_40559_10879282	NC_021163.1	Ca_kabuli_chr04	10879282	TT	CC	1946790226
SNP_P4_40561_10880220	NC_021163.1	Ca_kabuli_chr04	10880220	TT	GG	1946790228
SNP_P4_40562_10880225	NC_021163.1	Ca_kabuli_chr04	10880225	AA	GG	1946790230
SNP_P4_40563_10880231	NC_021163.1	Ca_kabuli_chr04	10880231	TT	AA	1946790232
SNP_P4_40564_10880475	NC_021163.1	Ca_kabuli_chr04	10880475	TT	AA	1946790234
SNP_P4_40565_10880480	NC_021163.1	Ca_kabuli_chr04	10880480	TT	CC	1946790236
SNP_P4_40566_10888887	NC_021163.1	Ca_kabuli_chr04	10888887	CC	TT	1946790238
SNP_P4_40567_10893513	NC_021163.1	Ca_kabuli_chr04	10893513	AA	TT	1946790240
SNP_P4_40568_10915004	NC_021163.1	Ca_kabuli_chr04	10915004	AA	GG	1946790242
SNP_P4_40569_10946958	NC_021163.1	Ca_kabuli_chr04	10946958	AA	GG	1946790244
SNP_P4_40571_10955225	NC_021163.1	Ca_kabuli_chr04	10955225	CC	AA	1946790246
SNP_P4_40572_10958260	NC_021163.1	Ca_kabuli_chr04	10958260	TT	CC	1946790248
SNP_P4_40573_10966762	NC_021163.1	Ca_kabuli_chr04	10966762	TT	CC	1946790250
SNP_P4_40574_10972695	NC_021163.1	Ca_kabuli_chr04	10972695	GG	CC	1946790252
SNP_P4_40576_11003102	NC_021163.1	Ca_kabuli_chr04	11003102	TT	CC	1946790254
SNP_P4_40577_11003109	NC_021163.1	Ca_kabuli_chr04	11003109	TT	CC	1946790255
SNP_P4_40578_11003256	NC_021163.1	Ca_kabuli_chr04	11003256	AA	GG	1946790257
SNP_P4_40579_11003479	NC_021163.1	Ca_kabuli_chr04	11003479	TT	CC	1946790259
SNP_P4_40580_11003672	NC_021163.1	Ca_kabuli_chr04	11003672	AA	GG	1946790261
SNP_P4_40581_11011482	NC_021163.1	Ca_kabuli_chr04	11011482	CC	TT	1946790263
SNP_P4_40582_11021386	NC_021163.1	Ca_kabuli_chr04	11021386	TT	AA	1946790265
SNP_P4_40583_11056889	NC_021163.1	Ca_kabuli_chr04	11056889	TT	AA	1946790267
SNP_P4_40584_11057194	NC_021163.1	Ca_kabuli_chr04	11057194	AA	GG	1946790269
SNP_P4_40587_11147012	NC_021163.1	Ca_kabuli_chr04	11147012	AA	TT	1946790271
SNP_P4_40588_11147013	NC_021163.1	Ca_kabuli_chr04	11147013	AA	TT	1946790273
SNP_P4_40589_11172031	NC_021163.1	Ca_kabuli_chr04	11172031	AA	TT	1946790275
SNP_P4_40590_11195976	NC_021163.1	Ca_kabuli_chr04	11195976	TT	CC	1946790277
SNP_P4_40591_11201838	NC_021163.1	Ca_kabuli_chr04	11201838	GG	AA	1946790279
SNP_P4_40592_11209560	NC_021163.1	Ca_kabuli_chr04	11209560	TT	CC	1946790281
SNP_P4_40593_11211225	NC_021163.1	Ca_kabuli_chr04	11211225	CC	AA	1946790283
SNP_P4_40594_11211420	NC_021163.1	Ca_kabuli_chr04	11211420	GG	TT	1946790285
SNP_P4_40596_11213923	NC_021163.1	Ca_kabuli_chr04	11213923	AA	TT	1946790287
SNP_P4_40597_11213924	NC_021163.1	Ca_kabuli_chr04	11213924	AA	TT	1946790289
SNP_P4_40598_11213987	NC_021163.1	Ca_kabuli_chr04	11213987	GG	CC	1946790291
SNP_P4_40599_11214334	NC_021163.1	Ca_kabuli_chr04	11214334	AA	CC	1946790293
SNP_P4_40600_11214337	NC_021163.1	Ca_kabuli_chr04	11214337	AA	TT	1946790295
SNP_P4_40601_11214469	NC_021163.1	Ca_kabuli_chr04	11214469	GG	AA	1946790297
SNP_P4_40602_11215060	NC_021163.1	Ca_kabuli_chr04	11215060	AA	GG	1946790299

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_40604_11215123	NC_021163.1	Ca_kabuli_chr04	11215123	TT	AA	1946790303
SNP_P4_40605_11215129	NC_021163.1	Ca_kabuli_chr04	11215129	CC	TT	1946790305
SNP_P4_40606_11215145	NC_021163.1	Ca_kabuli_chr04	11215145	AA	GG	1946790307
SNP_P4_40607_11215177	NC_021163.1	Ca_kabuli_chr04	11215177	AA	GG	1946790309
SNP_P4_40608_11215178	NC_021163.1	Ca_kabuli_chr04	11215178	AA	TT	1946790312
SNP_P4_40609_11215180	NC_021163.1	Ca_kabuli_chr04	11215180	CC	GG	1946790314
SNP_P4_40610_11215190	NC_021163.1	Ca_kabuli_chr04	11215190	GG	CC	1946790315
SNP_P4_40611_11215196	NC_021163.1	Ca_kabuli_chr04	11215196	GG	AA	1946790317
SNP_P4_40612_11215253	NC_021163.1	Ca_kabuli_chr04	11215253	TT	AA	1946790320
SNP_P4_40613_11215373	NC_021163.1	Ca_kabuli_chr04	11215373	TT	CC	1946790322
SNP_P4_40614_11215622	NC_021163.1	Ca_kabuli_chr04	11215622	TT	GG	1946790324
SNP_P4_40615_11216025	NC_021163.1	Ca_kabuli_chr04	11216025	TT	GG	1946790326
SNP_P4_40616_11216027	NC_021163.1	Ca_kabuli_chr04	11216027	GG	AA	1946790328
SNP_P4_40617_11216045	NC_021163.1	Ca_kabuli_chr04	11216045	GG	AA	1946790330
SNP_P4_40618_11216048	NC_021163.1	Ca_kabuli_chr04	11216048	TT	GG	1946790332
SNP_P4_40620_11216294	NC_021163.1	Ca_kabuli_chr04	11216294	CC	TT	1946790334
SNP_P4_40621_11216341	NC_021163.1	Ca_kabuli_chr04	11216341	AA	GG	1946790336
SNP_P4_40622_11216435	NC_021163.1	Ca_kabuli_chr04	11216435	CC	TT	1946790338
SNP_P4_40624_11216560	NC_021163.1	Ca_kabuli_chr04	11216560	AA	TT	1946790340
SNP_P4_40626_11217716	NC_021163.1	Ca_kabuli_chr04	11217716	GG	CC	1946790342
SNP_P4_40627_11218059	NC_021163.1	Ca_kabuli_chr04	11218059	AA	TT	1946790343
SNP_P4_40628_11218102	NC_021163.1	Ca_kabuli_chr04	11218102	TT	GG	1946790345
SNP_P4_40629_11218132	NC_021163.1	Ca_kabuli_chr04	11218132	TT	AA	1946790347
SNP_P4_40630_11218248	NC_021163.1	Ca_kabuli_chr04	11218248	AA	GG	1946790349
SNP_P4_40631_11218249	NC_021163.1	Ca_kabuli_chr04	11218249	CC	TT	1946790351
SNP_P4_40632_11218253	NC_021163.1	Ca_kabuli_chr04	11218253	GG	TT	1946790353
SNP_P4_40633_11218306	NC_021163.1	Ca_kabuli_chr04	11218306	TT	AA	1946790356
SNP_P4_40634_11218314	NC_021163.1	Ca_kabuli_chr04	11218314	GG	CC	1946790358
SNP_P4_40635_11218567	NC_021163.1	Ca_kabuli_chr04	11218567	GG	AA	1946790360
SNP_P4_40636_11218577	NC_021163.1	Ca_kabuli_chr04	11218577	CC	TT	1946790362
SNP_P4_40637_11218694	NC_021163.1	Ca_kabuli_chr04	11218694	TT	CC	1946790364
SNP_P4_40638_11219469	NC_021163.1	Ca_kabuli_chr04	11219469	TT	CC	1946790366
SNP_P4_40639_11219545	NC_021163.1	Ca_kabuli_chr04	11219545	AA	GG	1946790368
SNP_P4_40640_11219579	NC_021163.1	Ca_kabuli_chr04	11219579	TT	AA	1946790370
SNP_P4_40641_11219580	NC_021163.1	Ca_kabuli_chr04	11219580	TT	AA	1946790372
SNP_P4_40642_11219596	NC_021163.1	Ca_kabuli_chr04	11219596	GG	AA	1946790374
SNP_P4_40643_11219603	NC_021163.1	Ca_kabuli_chr04	11219603	GG	AA	1946790376
SNP_P4_40644_11219774	NC_021163.1	Ca_kabuli_chr04	11219774	CC	TT	1946790378
SNP_P4_40645_11219948	NC_021163.1	Ca_kabuli_chr04	11219948	AA	TT	1946790380
SNP_P4_40646_11220156	NC_021163.1	Ca_kabuli_chr04	11220156	GG	CC	1946790382
SNP_P4_40647_11220180	NC_021163.1	Ca_kabuli_chr04	11220180	AA	TT	1946790384

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_40649_11220968	NC_021163.1	Ca_kabuli_chr04	11220968	GG	CC	1946790388
SNP_P4_40650_11220975	NC_021163.1	Ca_kabuli_chr04	11220975	CC	TT	1946790390
SNP_P4_40651_11220978	NC_021163.1	Ca_kabuli_chr04	11220978	GG	AA	1946790392
SNP_P4_40652_11221010	NC_021163.1	Ca_kabuli_chr04	11221010	AA	GG	1946790394
SNP_P4_40653_11221029	NC_021163.1	Ca_kabuli_chr04	11221029	CC	GG	1946790396
SNP_P4_40654_11221033	NC_021163.1	Ca_kabuli_chr04	11221033	AA	TT	1946790398
SNP_P4_40655_11221205	NC_021163.1	Ca_kabuli_chr04	11221205	AA	CC	1946790400
SNP_P4_40656_11221255	NC_021163.1	Ca_kabuli_chr04	11221255	GG	TT	1946790402
SNP_P4_40657_11221572	NC_021163.1	Ca_kabuli_chr04	11221572	TT	CC	1946790404
SNP_P4_40660_11225408	NC_021163.1	Ca_kabuli_chr04	11225408	AA	GG	1946790406
SNP_P4_40661_11225935	NC_021163.1	Ca_kabuli_chr04	11225935	AA	GG	1946790408
SNP_P4_40662_11225944	NC_021163.1	Ca_kabuli_chr04	11225944	TT	CC	1946790410
SNP_P4_40663_11225946	NC_021163.1	Ca_kabuli_chr04	11225946	AA	TT	1946790412
SNP_P4_40664_11226326	NC_021163.1	Ca_kabuli_chr04	11226326	CC	AA	1946790414
SNP_P4_40665_11226376	NC_021163.1	Ca_kabuli_chr04	11226376	TT	CC	1946790416
SNP_P4_40666_11226399	NC_021163.1	Ca_kabuli_chr04	11226399	AA	TT	1946790418
SNP_P4_40667_11226687	NC_021163.1	Ca_kabuli_chr04	11226687	GG	TT	1946790420
SNP_P4_40669_11228387	NC_021163.1	Ca_kabuli_chr04	11228387	GG	AA	1946790422
SNP_P4_40670_11228732	NC_021163.1	Ca_kabuli_chr04	11228732	TT	AA	1946790424
SNP_P4_40673_11229005	NC_021163.1	Ca_kabuli_chr04	11229005	CC	TT	1946790426
SNP_P4_40674_11229022	NC_021163.1	Ca_kabuli_chr04	11229022	GG	AA	1946790428
SNP_P4_40675_11229026	NC_021163.1	Ca_kabuli_chr04	11229026	AA	GG	1946790430
SNP_P4_40676_11229031	NC_021163.1	Ca_kabuli_chr04	11229031	TT	CC	1946790432
SNP_P4_40678_11229181	NC_021163.1	Ca_kabuli_chr04	11229181	TT	CC	1946790434
SNP_P4_40679_11229383	NC_021163.1	Ca_kabuli_chr04	11229383	TT	CC	1946790436
SNP_P4_40680_11229538	NC_021163.1	Ca_kabuli_chr04	11229538	GG	AA	1946790438
SNP_P4_40681_11229548	NC_021163.1	Ca_kabuli_chr04	11229548	TT	CC	1946790440
SNP_P4_40683_11229629	NC_021163.1	Ca_kabuli_chr04	11229629	TT	CC	1946790442
SNP_P4_40684_11229839	NC_021163.1	Ca_kabuli_chr04	11229839	AA	CC	1946790443
SNP_P4_40685_11229867	NC_021163.1	Ca_kabuli_chr04	11229867	TT	AA	1946790445
SNP_P4_40686_11230003	NC_021163.1	Ca_kabuli_chr04	11230003	GG	AA	1946790447
SNP_P4_40687_11230184	NC_021163.1	Ca_kabuli_chr04	11230184	TT	AA	1946790449
SNP_P4_40688_11232412	NC_021163.1	Ca_kabuli_chr04	11232412	AA	GG	1946790451
SNP_P4_40689_11232672	NC_021163.1	Ca_kabuli_chr04	11232672	TT	AA	1946790453
SNP_P4_40690_11232990	NC_021163.1	Ca_kabuli_chr04	11232990	CC	TT	1946790455
SNP_P4_40691_11233027	NC_021163.1	Ca_kabuli_chr04	11233027	GG	AA	1946790458
SNP_P4_40692_11233320	NC_021163.1	Ca_kabuli_chr04	11233320	AA	GG	1946790459
SNP_P4_40693_11233710	NC_021163.1	Ca_kabuli_chr04	11233710	TT	CC	1946790461
SNP_P4_40694_11234130	NC_021163.1	Ca_kabuli_chr04	11234130	GG	AA	1946790463
SNP_P4_40695_11236558	NC_021163.1	Ca_kabuli_chr04	11236558	AA	TT	1946790465
SNP_P4_40696_11237603	NC_021163.1	Ca_kabuli_chr04	11237603	TT	CC	1946790467

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_40698_11237629	NC_021163.1	Ca_kabuli_chr04	11237629	GG	CC	1946790471
SNP_P4_40699_11237634	NC_021163.1	Ca_kabuli_chr04	11237634	AA	GG	1946790473
SNP_P4_40700_11237858	NC_021163.1	Ca_kabuli_chr04	11237858	AA	GG	1946790475
SNP_P4_40701_11237971	NC_021163.1	Ca_kabuli_chr04	11237971	CC	TT	1946790477
SNP_P4_40702_11238332	NC_021163.1	Ca_kabuli_chr04	11238332	AA	GG	1946790479
SNP_P4_40703_11238922	NC_021163.1	Ca_kabuli_chr04	11238922	TT	CC	1946790481
SNP_P4_40704_11238976	NC_021163.1	Ca_kabuli_chr04	11238976	CC	TT	1946790483
SNP_P4_40705_11239751	NC_021163.1	Ca_kabuli_chr04	11239751	CC	TT	1946790485
SNP_P4_40706_11239778	NC_021163.1	Ca_kabuli_chr04	11239778	TT	CC	1946790487
SNP_P4_40707_11240421	NC_021163.1	Ca_kabuli_chr04	11240421	CC	TT	1946790489
SNP_P4_40709_11241078	NC_021163.1	Ca_kabuli_chr04	11241078	CC	TT	1946790491
SNP_P4_40710_11242997	NC_021163.1	Ca_kabuli_chr04	11242997	GG	TT	1946790493
SNP_P4_40711_11243006	NC_021163.1	Ca_kabuli_chr04	11243006	GG	AA	1946790495
SNP_P4_40712_11243019	NC_021163.1	Ca_kabuli_chr04	11243019	AA	TT	1946790497
SNP_P4_40713_11243083	NC_021163.1	Ca_kabuli_chr04	11243083	AA	GG	1946790498
SNP_P4_40714_11244451	NC_021163.1	Ca_kabuli_chr04	11244451	TT	CC	1946790500
SNP_P4_40715_11246164	NC_021163.1	Ca_kabuli_chr04	11246164	GG	AA	1946790502
SNP_P4_40716_11246173	NC_021163.1	Ca_kabuli_chr04	11246173	CC	TT	1946790504
SNP_P4_40717_11247133	NC_021163.1	Ca_kabuli_chr04	11247133	GG	AA	1946790506
SNP_P4_40718_11247542	NC_021163.1	Ca_kabuli_chr04	11247542	CC	AA	1946790508
SNP_P4_40719_11247778	NC_021163.1	Ca_kabuli_chr04	11247778	TT	AA	1946790510
SNP_P4_40720_11248034	NC_021163.1	Ca_kabuli_chr04	11248034	TT	CC	1946790512
SNP_P4_40721_11248605	NC_021163.1	Ca_kabuli_chr04	11248605	TT	AA	1946790514
SNP_P4_40722_11248988	NC_021163.1	Ca_kabuli_chr04	11248988	CC	TT	1946790516
SNP_P4_40723_11249291	NC_021163.1	Ca_kabuli_chr04	11249291	TT	CC	1946790518
SNP_P4_40724_11249631	NC_021163.1	Ca_kabuli_chr04	11249631	CC	TT	1946790520
SNP_P4_40725_11249675	NC_021163.1	Ca_kabuli_chr04	11249675	AA	GG	1946790522
SNP_P4_40726_11249951	NC_021163.1	Ca_kabuli_chr04	11249951	TT	AA	1946790524
SNP_P4_40727_11250058	NC_021163.1	Ca_kabuli_chr04	11250058	TT	CC	1946790526
SNP_P4_40728_11250992	NC_021163.1	Ca_kabuli_chr04	11250992	AA	CC	1946790528
SNP_P4_40729_11251000	NC_021163.1	Ca_kabuli_chr04	11251000	CC	TT	1946790531
SNP_P4_40730_11251596	NC_021163.1	Ca_kabuli_chr04	11251596	CC	AA	1946790533
SNP_P4_40731_11252374	NC_021163.1	Ca_kabuli_chr04	11252374	GG	TT	1946790535
SNP_P4_40732_11255005	NC_021163.1	Ca_kabuli_chr04	11255005	TT	CC	1946790537
SNP_P4_40733_11255869	NC_021163.1	Ca_kabuli_chr04	11255869	TT	CC	1946790539
SNP_P4_40734_11255983	NC_021163.1	Ca_kabuli_chr04	11255983	AA	GG	1946790541
SNP_P4_40735_11256242	NC_021163.1	Ca_kabuli_chr04	11256242	CC	GG	1946790543
SNP_P4_40736_11256771	NC_021163.1	Ca_kabuli_chr04	11256771	TT	AA	1946790546
SNP_P4_40737_11257370	NC_021163.1	Ca_kabuli_chr04	11257370	AA	GG	1946790548
SNP_P4_40738_11257398	NC_021163.1	Ca_kabuli_chr04	11257398	GG	AA	1946790550
SNP_P4_40739_11259144	NC_021163.1	Ca_kabuli_chr04	11259144	CC	GG	1946790552

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_40741_11259601	NC_021163.1	Ca_kabuli_chr04	11259601	GG	CC	1946790556
SNP_P4_40742_11259603	NC_021163.1	Ca_kabuli_chr04	11259603	AA	GG	1946790558
SNP_P4_40743_11261069	NC_021163.1	Ca_kabuli_chr04	11261069	AA	TT	1946790560
SNP_P4_40744_11261078	NC_021163.1	Ca_kabuli_chr04	11261078	TT	GG	1946790562
SNP_P4_40745_11261113	NC_021163.1	Ca_kabuli_chr04	11261113	AA	TT	1946790564
SNP_P4_40746_11261220	NC_021163.1	Ca_kabuli_chr04	11261220	CC	TT	1946790565
SNP_P4_40747_11261439	NC_021163.1	Ca_kabuli_chr04	11261439	CC	TT	1946790566
SNP_P4_40748_11261470	NC_021163.1	Ca_kabuli_chr04	11261470	CC	TT	1946790567
SNP_P4_40749_11261544	NC_021163.1	Ca_kabuli_chr04	11261544	AA	GG	1946790568
SNP_P4_40750_11261559	NC_021163.1	Ca_kabuli_chr04	11261559	GG	AA	1946790569
SNP_P4_40751_11262716	NC_021163.1	Ca_kabuli_chr04	11262716	TT	GG	1946790570
SNP_P4_40752_11262724	NC_021163.1	Ca_kabuli_chr04	11262724	TT	CC	1946790571
SNP_P4_40753_11262727	NC_021163.1	Ca_kabuli_chr04	11262727	TT	AA	1946790572
SNP_P4_40754_11262729	NC_021163.1	Ca_kabuli_chr04	11262729	CC	TT	1946790573
SNP_P4_40755_11262918	NC_021163.1	Ca_kabuli_chr04	11262918	GG	CC	1946790576
SNP_P4_40756_11263852	NC_021163.1	Ca_kabuli_chr04	11263852	AA	GG	1946790578
SNP_P4_40759_11264610	NC_021163.1	Ca_kabuli_chr04	11264610	AA	TT	1946790580
SNP_P4_40760_11264611	NC_021163.1	Ca_kabuli_chr04	11264611	TT	AA	1946790582
SNP_P4_40761_11264828	NC_021163.1	Ca_kabuli_chr04	11264828	GG	CC	1946790584
SNP_P4_40762_11264986	NC_021163.1	Ca_kabuli_chr04	11264986	CC	TT	1946790586
SNP_P4_40763_11265004	NC_021163.1	Ca_kabuli_chr04	11265004	AA	TT	1946790588
SNP_P4_40764_11265170	NC_021163.1	Ca_kabuli_chr04	11265170	TT	CC	1946790590
SNP_P4_40765_11265509	NC_021163.1	Ca_kabuli_chr04	11265509	CC	TT	1946790592
SNP_P4_40766_11265542	NC_021163.1	Ca_kabuli_chr04	11265542	CC	TT	1946790594
SNP_P4_40767_11265559	NC_021163.1	Ca_kabuli_chr04	11265559	AA	TT	1946790596
SNP_P4_40768_11265933	NC_021163.1	Ca_kabuli_chr04	11265933	GG	AA	1946790598
SNP_P4_40769_11265985	NC_021163.1	Ca_kabuli_chr04	11265985	TT	GG	1946790601
SNP_P4_40770_11266188	NC_021163.1	Ca_kabuli_chr04	11266188	CC	TT	1946790603
SNP_P4_40771_11267552	NC_021163.1	Ca_kabuli_chr04	11267552	TT	CC	1946790605
SNP_P4_40773_11268045	NC_021163.1	Ca_kabuli_chr04	11268045	CC	TT	1946790607
SNP_P4_40774_11269445	NC_021163.1	Ca_kabuli_chr04	11269445	AA	CC	1946790609
SNP_P4_40775_11269505	NC_021163.1	Ca_kabuli_chr04	11269505	TT	CC	1946790611
SNP_P4_40776_11269580	NC_021163.1	Ca_kabuli_chr04	11269580	TT	GG	1946790613
SNP_P4_40777_11269699	NC_021163.1	Ca_kabuli_chr04	11269699	CC	TT	1946790615
SNP_P4_40778_11269702	NC_021163.1	Ca_kabuli_chr04	11269702	GG	AA	1946790618
SNP_P4_40779_11270245	NC_021163.1	Ca_kabuli_chr04	11270245	CC	TT	1946790620
SNP_P4_40780_11270475	NC_021163.1	Ca_kabuli_chr04	11270475	GG	AA	1946790622
SNP_P4_40782_11271099	NC_021163.1	Ca_kabuli_chr04	11271099	TT	AA	1946790624
SNP_P4_40783_11272888	NC_021163.1	Ca_kabuli_chr04	11272888	TT	CC	1946790626
SNP_P4_40784_11274132	NC_021163.1	Ca_kabuli_chr04	11274132	GG	CC	1946790628
SNP_P4_40785_11275638	NC_021163.1	Ca_kabuli_chr04	11275638	CC	TT	1946790630

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_40787_11280490	NC_021163.1	Ca_kabuli_chr04	11280490	GG	AA	1946790634
SNP_P4_40788_11280839	NC_021163.1	Ca_kabuli_chr04	11280839	CC	TT	1946790637
SNP_P4_40789_11280841	NC_021163.1	Ca_kabuli_chr04	11280841	CC	TT	1946790639
SNP_P4_40791_11280861	NC_021163.1	Ca_kabuli_chr04	11280861	CC	TT	1946790641
SNP_P4_40792_11280905	NC_021163.1	Ca_kabuli_chr04	11280905	TT	CC	1946790643
SNP_P4_40793_11280911	NC_021163.1	Ca_kabuli_chr04	11280911	CC	TT	1946790645
SNP_P4_40794_11280917	NC_021163.1	Ca_kabuli_chr04	11280917	GG	AA	1946790647
SNP_P4_40795_11281298	NC_021163.1	Ca_kabuli_chr04	11281298	AA	GG	1946790649
SNP_P4_40796_11281459	NC_021163.1	Ca_kabuli_chr04	11281459	CC	AA	1946790651
SNP_P4_40797_11281484	NC_021163.1	Ca_kabuli_chr04	11281484	AA	TT	1946790653
SNP_P4_40798_11281566	NC_021163.1	Ca_kabuli_chr04	11281566	GG	AA	1946790655
SNP_P4_40800_11282023	NC_021163.1	Ca_kabuli_chr04	11282023	TT	CC	1946790657
SNP_P4_40801_11282076	NC_021163.1	Ca_kabuli_chr04	11282076	CC	TT	1946790659
SNP_P4_40802_11282096	NC_021163.1	Ca_kabuli_chr04	11282096	CC	TT	1946790662
SNP_P4_40803_11282129	NC_021163.1	Ca_kabuli_chr04	11282129	AA	CC	1946790664
SNP_P4_40805_11282396	NC_021163.1	Ca_kabuli_chr04	11282396	CC	GG	1946790666
SNP_P4_40806_11282402	NC_021163.1	Ca_kabuli_chr04	11282402	CC	TT	1946790668
SNP_P4_40807_11282432	NC_021163.1	Ca_kabuli_chr04	11282432	TT	AA	1946790670
SNP_P4_40808_11282464	NC_021163.1	Ca_kabuli_chr04	11282464	GG	AA	1946790672
SNP_P4_40809_11282795	NC_021163.1	Ca_kabuli_chr04	11282795	CC	TT	1946790674
SNP_P4_40810_11285366	NC_021163.1	Ca_kabuli_chr04	11285366	GG	AA	1946790676
SNP_P4_40812_11289703	NC_021163.1	Ca_kabuli_chr04	11289703	AA	TT	1946790678
SNP_P4_40813_11291213	NC_021163.1	Ca_kabuli_chr04	11291213	CC	TT	1946790680
SNP_P4_40815_11291533	NC_021163.1	Ca_kabuli_chr04	11291533	TT	GG	1946790682
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SNP_P4_40817_11291809	NC_021163.1	Ca_kabuli_chr04	11291809	TT	AA	1946790686
SNP_P4_40818_11291983	NC_021163.1	Ca_kabuli_chr04	11291983	GG	AA	1946790688
SNP_P4_40819_11297517	NC_021163.1	Ca_kabuli_chr04	11297517	TT	CC	1946790690
SNP_P4_40820_11297544	NC_021163.1	Ca_kabuli_chr04	11297544	CC	AA	1946790692
SNP_P4_40821_11297674	NC_021163.1	Ca_kabuli_chr04	11297674	CC	TT	1946790694
SNP_P4_40823_11300107	NC_021163.1	Ca_kabuli_chr04	11300107	CC	TT	1946790696
SNP_P4_40824_11300138	NC_021163.1	Ca_kabuli_chr04	11300138	GG	AA	1946790698
SNP_P4_40825_11300145	NC_021163.1	Ca_kabuli_chr04	11300145	CC	TT	1946790700
SNP_P4_40826_11300182	NC_021163.1	Ca_kabuli_chr04	11300182	CC	GG	1946790703
SNP_P4_40827_11300362	NC_021163.1	Ca_kabuli_chr04	11300362	CC	TT	1946790705
SNP_P4_40828_11300390	NC_021163.1	Ca_kabuli_chr04	11300390	TT	AA	1946790707
SNP_P4_40830_11300673	NC_021163.1	Ca_kabuli_chr04	11300673	TT	GG	1946790709
SNP_P4_40831_11300777	NC_021163.1	Ca_kabuli_chr04	11300777	CC	AA	1946790711
SNP_P4_40832_11300816	NC_021163.1	Ca_kabuli_chr04	11300816	AA	GG	1946790713
SNP_P4_40833_11300956	NC_021163.1	Ca_kabuli_chr04	11300956	AA	GG	1946790715
SNP_P4_40835_11301391	NC_021163.1	Ca_kabuli_chr04	11301391	CC	AA	1946790717

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_40839_11306420	NC_021163.1	Ca_kabuli_chr04	11306420	TT	AA	1946790726
SNP_P4_40840_11307770	NC_021163.1	Ca_kabuli_chr04	11307770	CC	TT	1946790728
SNP_P4_40841_11308000	NC_021163.1	Ca_kabuli_chr04	11308000	GG	TT	1946790730
SNP_P4_40842_11308006	NC_021163.1	Ca_kabuli_chr04	11308006	CC	TT	1946790732
SNP_P4_40843_11308028	NC_021163.1	Ca_kabuli_chr04	11308028	TT	GG	1946790734
SNP_P4_40845_11309392	NC_021163.1	Ca_kabuli_chr04	11309392	GG	CC	1946790736
SNP_P4_40846_11309800	NC_021163.1	Ca_kabuli_chr04	11309800	GG	TT	1946790738
SNP_P4_40847_11310133	NC_021163.1	Ca_kabuli_chr04	11310133	GG	AA	1946790740
SNP_P4_40848_11310196	NC_021163.1	Ca_kabuli_chr04	11310196	TT	CC	1946790742
SNP_P4_40849_11310451	NC_021163.1	Ca_kabuli_chr04	11310451	TT	CC	1946790744
SNP_P4_40850_11310486	NC_021163.1	Ca_kabuli_chr04	11310486	GG	AA	1946790746
SNP_P4_40851_11310504	NC_021163.1	Ca_kabuli_chr04	11310504	AA	GG	1946790748
SNP_P4_40852_11310515	NC_021163.1	Ca_kabuli_chr04	11310515	GG	AA	1946790750
SNP_P4_40854_11310905	NC_021163.1	Ca_kabuli_chr04	11310905	TT	CC	1946790752
SNP_P4_40855_11310906	NC_021163.1	Ca_kabuli_chr04	11310906	GG	AA	1946790754
SNP_P4_40858_11313261	NC_021163.1	Ca_kabuli_chr04	11313261	AA	TT	1946790756
SNP_P4_40859_11313425	NC_021163.1	Ca_kabuli_chr04	11313425	GG	AA	1946790758
SNP_P4_40860_11313428	NC_021163.1	Ca_kabuli_chr04	11313428	GG	AA	1946790760
SNP_P4_40861_11313434	NC_021163.1	Ca_kabuli_chr04	11313434	CC	GG	1946790763
SNP_P4_40862_11313704	NC_021163.1	Ca_kabuli_chr04	11313704	AA	GG	1946790765
SNP_P4_40863_11313726	NC_021163.1	Ca_kabuli_chr04	11313726	GG	TT	1946790767
SNP_P4_40864_11313830	NC_021163.1	Ca_kabuli_chr04	11313830	AA	GG	1946790769
SNP_P4_40865_11313875	NC_021163.1	Ca_kabuli_chr04	11313875	TT	GG	1946790771
SNP_P4_40866_11314123	NC_021163.1	Ca_kabuli_chr04	11314123	AA	GG	1946790773
SNP_P4_40867_11314124	NC_021163.1	Ca_kabuli_chr04	11314124	CC	TT	1946790775
SNP_P4_40868_11315502	NC_021163.1	Ca_kabuli_chr04	11315502	GG	AA	1946790777
SNP_P4_40869_11316385	NC_021163.1	Ca_kabuli_chr04	11316385	TT	GG	1946790779
SNP_P4_40870_11316401	NC_021163.1	Ca_kabuli_chr04	11316401	GG	AA	1946790781
SNP_P4_40871_11316550	NC_021163.1	Ca_kabuli_chr04	11316550	TT	CC	1946790784
SNP_P4_40872_11316859	NC_021163.1	Ca_kabuli_chr04	11316859	CC	TT	1946790786
SNP_P4_40874_11317428	NC_021163.1	Ca_kabuli_chr04	11317428	CC	AA	1946790788
SNP_P4_40875_11317776	NC_021163.1	Ca_kabuli_chr04	11317776	TT	AA	1946790791
SNP_P4_40877_11318395	NC_021163.1	Ca_kabuli_chr04	11318395	CC	TT	1946790793
SNP_P4_40878_11319167	NC_021163.1	Ca_kabuli_chr04	11319167	CC	TT	1946790795
SNP_P4_40879_11319235	NC_021163.1	Ca_kabuli_chr04	11319235	GG	AA	1946790797
SNP_P4_40883_11321299	NC_021163.1	Ca_kabuli_chr04	11321299	TT	AA	1946790800
SNP_P4_40884_11321361	NC_021163.1	Ca_kabuli_chr04	11321361	TT	AA	1946790802
SNP_P4_40885_11321369	NC_021163.1	Ca_kabuli_chr04	11321369	GG	AA	1946790804
SNP_P4_40886_11321402	NC_021163.1	Ca_kabuli_chr04	11321402	CC	TT	1946790806

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_40889_11321643	NC_021163.1	Ca_kabuli_chr04	11321643	GG	AA	1946790810
SNP_P4_40890_11321647	NC_021163.1	Ca_kabuli_chr04	11321647	GG	TT	1946790812
SNP_P4_40892_11321727	NC_021163.1	Ca_kabuli_chr04	11321727	TT	CC	1946790814
SNP_P4_40893_11321745	NC_021163.1	Ca_kabuli_chr04	11321745	TT	CC	1946790816
SNP_P4_40894_11321769	NC_021163.1	Ca_kabuli_chr04	11321769	CC	TT	1946790818
SNP_P4_40895_11321955	NC_021163.1	Ca_kabuli_chr04	11321955	GG	AA	1946790820
SNP_P4_40896_11322070	NC_021163.1	Ca_kabuli_chr04	11322070	AA	CC	1946790822
SNP_P4_40897_11322115	NC_021163.1	Ca_kabuli_chr04	11322115	AA	CC	1946790824
SNP_P4_40898_11322212	NC_021163.1	Ca_kabuli_chr04	11322212	CC	TT	1946790826
SNP_P4_40900_11322401	NC_021163.1	Ca_kabuli_chr04	11322401	CC	TT	1946790828
SNP_P4_40901_11322492	NC_021163.1	Ca_kabuli_chr04	11322492	TT	CC	1946790831
SNP_P4_40902_11322834	NC_021163.1	Ca_kabuli_chr04	11322834	AA	GG	1946790833
SNP_P4_40903_11322905	NC_021163.1	Ca_kabuli_chr04	11322905	AA	CC	1946790835
SNP_P4_40905_11323813	NC_021163.1	Ca_kabuli_chr04	11323813	AA	GG	1946790837
SNP_P4_40906_11323817	NC_021163.1	Ca_kabuli_chr04	11323817	AA	GG	1946790839
SNP_P4_40907_11323853	NC_021163.1	Ca_kabuli_chr04	11323853	GG	AA	1946790841
SNP_P4_40908_11323883	NC_021163.1	Ca_kabuli_chr04	11323883	AA	CC	1946790843
SNP_P4_40909_11323902	NC_021163.1	Ca_kabuli_chr04	11323902	AA	TT	1946790845
SNP_P4_40910_11324052	NC_021163.1	Ca_kabuli_chr04	11324052	TT	AA	1946790847
SNP_P4_40911_11324053	NC_021163.1	Ca_kabuli_chr04	11324053	CC	AA	1946790849
SNP_P4_40912_11325493	NC_021163.1	Ca_kabuli_chr04	11325493	AA	CC	1946790851
SNP_P4_40913_11326428	NC_021163.1	Ca_kabuli_chr04	11326428	GG	AA	1946790853
SNP_P4_40914_11328952	NC_021163.1	Ca_kabuli_chr04	11328952	AA	GG	1946790855
SNP_P4_40915_11328981	NC_021163.1	Ca_kabuli_chr04	11328981	TT	CC	1946790857
SNP_P4_40917_11332327	NC_021163.1	Ca_kabuli_chr04	11332327	AA	CC	1946790859
SNP_P4_40918_11332346	NC_021163.1	Ca_kabuli_chr04	11332346	CC	TT	1946790930
SNP_P4_40919_11332454	NC_021163.1	Ca_kabuli_chr04	11332454	GG	AA	1946790932
SNP_P4_40920_11333618	NC_021163.1	Ca_kabuli_chr04	11333618	CC	GG	1946790934
SNP_P4_40922_11334343	NC_021163.1	Ca_kabuli_chr04	11334343	AA	TT	1946790936
SNP_P4_40923_11334350	NC_021163.1	Ca_kabuli_chr04	11334350	AA	GG	1946790938
SNP_P4_40924_11336489	NC_021163.1	Ca_kabuli_chr04	11336489	TT	CC	1946790941
SNP_P4_40925_11336559	NC_021163.1	Ca_kabuli_chr04	11336559	CC	TT	1946790943
SNP_P4_40926_11337065	NC_021163.1	Ca_kabuli_chr04	11337065	CC	TT	1946790945
SNP_P4_40927_11337133	NC_021163.1	Ca_kabuli_chr04	11337133	CC	TT	1946790947
SNP_P4_40928_11338311	NC_021163.1	Ca_kabuli_chr04	11338311	TT	GG	1946790950
SNP_P4_40930_11338387	NC_021163.1	Ca_kabuli_chr04	11338387	TT	AA	1946790951
SNP_P4_40931_11338722	NC_021163.1	Ca_kabuli_chr04	11338722	TT	GG	1946790952
SNP_P4_40932_11338770	NC_021163.1	Ca_kabuli_chr04	11338770	TT	CC	1946790953
SNP_P4_40933_11338927	NC_021163.1	Ca_kabuli_chr04	11338927	AA	GG	1946790956
SNP_P4_40934_11339249	NC_021163.1	Ca_kabuli_chr04	11339249	CC	TT	1946790958
SNP_P4_40935_11339287	NC_021163.1	Ca_kabuli_chr04	11339287	GG	AA	1946790960

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_40937_11339344	NC_021163.1	Ca_kabuli_chr04	11339344	CC	TT	1946790964
SNP_P4_40938_11339390	NC_021163.1	Ca_kabuli_chr04	11339390	AA	GG	1946790966
SNP_P4_40939_11339544	NC_021163.1	Ca_kabuli_chr04	11339544	TT	AA	1946790968
SNP_P4_40940_11340177	NC_021163.1	Ca_kabuli_chr04	11340177	AA	GG	1946790970
SNP_P4_40941_11340226	NC_021163.1	Ca_kabuli_chr04	11340226	GG	TT	1946790972
SNP_P4_40942_11340243	NC_021163.1	Ca_kabuli_chr04	11340243	GG	AA	1946790973
SNP_P4_40943_11340246	NC_021163.1	Ca_kabuli_chr04	11340246	CC	TT	1946790975
SNP_P4_40944_11340307	NC_021163.1	Ca_kabuli_chr04	11340307	CC	TT	1946790977
SNP_P4_40945_11340315	NC_021163.1	Ca_kabuli_chr04	11340315	AA	GG	1946790979
SNP_P4_40946_11340322	NC_021163.1	Ca_kabuli_chr04	11340322	TT	AA	1946790981
SNP_P4_40947_11340329	NC_021163.1	Ca_kabuli_chr04	11340329	GG	AA	1946790984
SNP_P4_40948_11340498	NC_021163.1	Ca_kabuli_chr04	11340498	CC	TT	1946790985
SNP_P4_40949_11341063	NC_021163.1	Ca_kabuli_chr04	11341063	AA	GG	1946790987
SNP_P4_40951_11341346	NC_021163.1	Ca_kabuli_chr04	11341346	TT	CC	1946790989
SNP_P4_40953_11341416	NC_021163.1	Ca_kabuli_chr04	11341416	TT	AA	1946790991
SNP_P4_40954_11341573	NC_021163.1	Ca_kabuli_chr04	11341573	CC	AA	1946790993
SNP_P4_40955_11343649	NC_021163.1	Ca_kabuli_chr04	11343649	AA	GG	1946790995
SNP_P4_40956_11343925	NC_021163.1	Ca_kabuli_chr04	11343925	TT	AA	1946790997
SNP_P4_40957_11344011	NC_021163.1	Ca_kabuli_chr04	11344011	GG	AA	1946790999
SNP_P4_40958_11346333	NC_021163.1	Ca_kabuli_chr04	11346333	TT	GG	1946791001
SNP_P4_40959_11346334	NC_021163.1	Ca_kabuli_chr04	11346334	CC	TT	1946791003
SNP_P4_40961_11347415	NC_021163.1	Ca_kabuli_chr04	11347415	GG	TT	1946791005
SNP_P4_40962_11347426	NC_021163.1	Ca_kabuli_chr04	11347426	TT	CC	1946791007
SNP_P4_40963_11347434	NC_021163.1	Ca_kabuli_chr04	11347434	AA	GG	1946791009
SNP_P4_40964_11347462	NC_021163.1	Ca_kabuli_chr04	11347462	CC	AA	1946791012
SNP_P4_40965_11347464	NC_021163.1	Ca_kabuli_chr04	11347464	GG	CC	1946791014
SNP_P4_40966_11347475	NC_021163.1	Ca_kabuli_chr04	11347475	CC	TT	1946791016
SNP_P4_40967_11347510	NC_021163.1	Ca_kabuli_chr04	11347510	TT	AA	1946791017
SNP_P4_40968_11347512	NC_021163.1	Ca_kabuli_chr04	11347512	AA	GG	1946791019
SNP_P4_40969_11347519	NC_021163.1	Ca_kabuli_chr04	11347519	GG	AA	1946791021
SNP_P4_40970_11347530	NC_021163.1	Ca_kabuli_chr04	11347530	AA	GG	1946791023
SNP_P4_40971_11347560	NC_021163.1	Ca_kabuli_chr04	11347560	GG	AA	1946791025
SNP_P4_40972_11347601	NC_021163.1	Ca_kabuli_chr04	11347601	TT	CC	1946791027
SNP_P4_40973_11347627	NC_021163.1	Ca_kabuli_chr04	11347627	GG	AA	1946791029
SNP_P4_40975_11347798	NC_021163.1	Ca_kabuli_chr04	11347798	AA	GG	1946791031
SNP_P4_40976_11347800	NC_021163.1	Ca_kabuli_chr04	11347800	TT	AA	1946791034
SNP_P4_40977_11347815	NC_021163.1	Ca_kabuli_chr04	11347815	GG	AA	1946791036
SNP_P4_40978_11347818	NC_021163.1	Ca_kabuli_chr04	11347818	CC	TT	1946791038
SNP_P4_40979_11347835	NC_021163.1	Ca_kabuli_chr04	11347835	CC	TT	1946791040
SNP_P4_40980_11347841	NC_021163.1	Ca_kabuli_chr04	11347841	GG	AA	1946791042
SNP_P4_40981_11347852	NC_021163.1	Ca_kabuli_chr04	11347852	CC	TT	1946791044

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_40984_11347938	NC_021163.1	Ca_kabuli_chr04	11347938	AA	GG	1946791050
SNP_P4_40985_11348102	NC_021163.1	Ca_kabuli_chr04	11348102	CC	AA	1946791051
SNP_P4_40986_11348157	NC_021163.1	Ca_kabuli_chr04	11348157	CC	GG	1946791053
SNP_P4_40987_11348270	NC_021163.1	Ca_kabuli_chr04	11348270	TT	CC	1946791055
SNP_P4_40988_11348328	NC_021163.1	Ca_kabuli_chr04	11348328	TT	CC	1946791057
SNP_P4_40990_11348397	NC_021163.1	Ca_kabuli_chr04	11348397	TT	CC	1946791059
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SNP_P4_40993_11349799	NC_021163.1	Ca_kabuli_chr04	11349799	GG	AA	1946791064
SNP_P4_40994_11349807	NC_021163.1	Ca_kabuli_chr04	11349807	AA	TT	1946791066
SNP_P4_40995_11350439	NC_021163.1	Ca_kabuli_chr04	11350439	AA	GG	1946791068
SNP_P4_40997_11353318	NC_021163.1	Ca_kabuli_chr04	11353318	GG	AA	1946791070
SNP_P4_40998_11354173	NC_021163.1	Ca_kabuli_chr04	11354173	AA	GG	1946791072
SNP_P4_41000_11354441	NC_021163.1	Ca_kabuli_chr04	11354441	CC	TT	1946791074
SNP_P4_41001_11354519	NC_021163.1	Ca_kabuli_chr04	11354519	TT	GG	1946791076
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SNP_P4_41003_11354528	NC_021163.1	Ca_kabuli_chr04	11354528	TT	CC	1946791080
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SNP_P4_41007_11354655	NC_021163.1	Ca_kabuli_chr04	11354655	AA	TT	1946791086
SNP_P4_41008_11355073	NC_021163.1	Ca_kabuli_chr04	11355073	CC	TT	1946791088
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SNP_P4_41016_11357028	NC_021163.1	Ca_kabuli_chr04	11357028	GG	AA	1946791101
SNP_P4_41017_11357064	NC_021163.1	Ca_kabuli_chr04	11357064	AA	GG	1946791103
SNP_P4_41018_11357104	NC_021163.1	Ca_kabuli_chr04	11357104	CC	TT	1946791105
SNP_P4_41019_11357268	NC_021163.1	Ca_kabuli_chr04	11357268	TT	CC	1946791107
SNP_P4_41020_11357290	NC_021163.1	Ca_kabuli_chr04	11357290	TT	CC	1946791109
SNP_P4_41021_11357291	NC_021163.1	Ca_kabuli_chr04	11357291	AA	GG	1946791111
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SNP_P4_41025_11359854	NC_021163.1	Ca_kabuli_chr04	11359854	TT	AA	1946791117
SNP_P4_41026_11359855	NC_021163.1	Ca_kabuli_chr04	11359855	TT	AA	1946791119
SNP_P4_41027_11359918	NC_021163.1	Ca_kabuli_chr04	11359918	TT	CC	1946791121
SNP_P4_41028_11360216	NC_021163.1	Ca_kabuli_chr04	11360216	GG	AA	1946791123
SNP_P4_41030_11364212	NC_021163.1	Ca_kabuli_chr04	11364212	CC	TT	1946791125

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_41033_11365031	NC_021163.1	Ca_kabuli_chr04	11365031	TT	GG	1946791131
SNP_P4_41034_11365190	NC_021163.1	Ca_kabuli_chr04	11365190	TT	CC	1946791133
SNP_P4_41035_11365197	NC_021163.1	Ca_kabuli_chr04	11365197	CC	TT	1946791135
SNP_P4_41036_11365261	NC_021163.1	Ca_kabuli_chr04	11365261	TT	GG	1946791137
SNP_P4_41037_11365698	NC_021163.1	Ca_kabuli_chr04	11365698	TT	CC	1946791139
SNP_P4_41038_11365716	NC_021163.1	Ca_kabuli_chr04	11365716	TT	CC	1946791141
SNP_P4_41039_11365744	NC_021163.1	Ca_kabuli_chr04	11365744	TT	CC	1946791143
SNP_P4_41040_11365873	NC_021163.1	Ca_kabuli_chr04	11365873	AA	GG	1946791144
SNP_P4_41041_11365921	NC_021163.1	Ca_kabuli_chr04	11365921	GG	AA	1946791146
SNP_P4_41042_11366326	NC_021163.1	Ca_kabuli_chr04	11366326	AA	GG	1946791148
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SNP_P4_41044_11366921	NC_021163.1	Ca_kabuli_chr04	11366921	GG	AA	1946791152
SNP_P4_41045_11367037	NC_021163.1	Ca_kabuli_chr04	11367037	TT	CC	1946791155
SNP_P4_41046_11367806	NC_021163.1	Ca_kabuli_chr04	11367806	GG	AA	1946791157
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SNP_P4_41053_11371592	NC_021163.1	Ca_kabuli_chr04	11371592	AA	GG	1946791165
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SNP_P4_41055_11371634	NC_021163.1	Ca_kabuli_chr04	11371634	CC	GG	1946791169
SNP_P4_41056_11371980	NC_021163.1	Ca_kabuli_chr04	11371980	AA	CC	1946791171
SNP_P4_41057_11373200	NC_021163.1	Ca_kabuli_chr04	11373200	GG	AA	1946791173
SNP_P4_41058_11373415	NC_021163.1	Ca_kabuli_chr04	11373415	AA	GG	1946791175
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SNP_P4_41062_11373687	NC_021163.1	Ca_kabuli_chr04	11373687	TT	AA	1946791183
SNP_P4_41063_11373730	NC_021163.1	Ca_kabuli_chr04	11373730	TT	CC	1946791185
SNP_P4_41064_11373732	NC_021163.1	Ca_kabuli_chr04	11373732	CC	AA	1946791187
SNP_P4_41065_11373811	NC_021163.1	Ca_kabuli_chr04	11373811	CC	TT	1946791189
SNP_P4_41066_11373842	NC_021163.1	Ca_kabuli_chr04	11373842	TT	CC	1946791191
SNP_P4_41067_11374612	NC_021163.1	Ca_kabuli_chr04	11374612	CC	AA	1946791193
SNP_P4_41068_11374785	NC_021163.1	Ca_kabuli_chr04	11374785	CC	AA	1946791195
SNP_P4_41069_11374787	NC_021163.1	Ca_kabuli_chr04	11374787	AA	CC	1946791197
SNP_P4_41070_11374984	NC_021163.1	Ca_kabuli_chr04	11374984	CC	AA	1946791199
SNP_P4_41071_11375716	NC_021163.1	Ca_kabuli_chr04	11375716	GG	AA	1946791201
SNP_P4_41072_11375747	NC_021163.1	Ca_kabuli_chr04	11375747	TT	CC	1946791203
SNP_P4_41073_11375789	NC_021163.1	Ca_kabuli_chr04	11375789	AA	CC	1946791205
SNP_P4_41074_11376317	NC_021163.1	Ca_kabuli_chr04	11376317	AA	CC	1946791207
SNP_P4_41075_11376320	NC_021163.1	Ca_kabuli_chr04	11376320	CC	GG	1946791209

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_41077_11376622	NC_021163.1	Ca_kabuli_chr04	11376622	AA	GG	1946791213
SNP_P4_41079_11376684	NC_021163.1	Ca_kabuli_chr04	11376684	TT	AA	1946791215
SNP_P4_41080_11376988	NC_021163.1	Ca_kabuli_chr04	11376988	AA	CC	1946791217
SNP_P4_41081_11377027	NC_021163.1	Ca_kabuli_chr04	11377027	CC	TT	1946791219
SNP_P4_41082_11377034	NC_021163.1	Ca_kabuli_chr04	11377034	TT	CC	1946791221
SNP_P4_41084_11377377	NC_021163.1	Ca_kabuli_chr04	11377377	TT	GG	1946791223
SNP_P4_41085_11377399	NC_021163.1	Ca_kabuli_chr04	11377399	TT	CC	1946791225
SNP_P4_41087_11377637	NC_021163.1	Ca_kabuli_chr04	11377637	CC	GG	1946791227
SNP_P4_41088_11377865	NC_021163.1	Ca_kabuli_chr04	11377865	TT	AA	1946791229
SNP_P4_41089_11379932	NC_021163.1	Ca_kabuli_chr04	11379932	AA	TT	1946791231
SNP_P4_41090_11382006	NC_021163.1	Ca_kabuli_chr04	11382006	TT	GG	1946791233
SNP_P4_41091_11382159	NC_021163.1	Ca_kabuli_chr04	11382159	AA	GG	1946791235
SNP_P4_41092_11382277	NC_021163.1	Ca_kabuli_chr04	11382277	CC	TT	1946791237
SNP_P4_41093_11382348	NC_021163.1	Ca_kabuli_chr04	11382348	TT	AA	1946791239
SNP_P4_41094_11382350	NC_021163.1	Ca_kabuli_chr04	11382350	CC	TT	1946791241
SNP_P4_41095_11382403	NC_021163.1	Ca_kabuli_chr04	11382403	AA	GG	1946791243
SNP_P4_41097_11383377	NC_021163.1	Ca_kabuli_chr04	11383377	AA	TT	1946791245
SNP_P4_41098_11383499	NC_021163.1	Ca_kabuli_chr04	11383499	GG	AA	1946791247
SNP_P4_41099_11383707	NC_021163.1	Ca_kabuli_chr04	11383707	CC	TT	1946791249
SNP_P4_41100_11384678	NC_021163.1	Ca_kabuli_chr04	11384678	AA	CC	1946791251
SNP_P4_41101_11384856	NC_021163.1	Ca_kabuli_chr04	11384856	AA	TT	1946791253
SNP_P4_41102_11384874	NC_021163.1	Ca_kabuli_chr04	11384874	AA	GG	1946791255
SNP_P4_41103_11384887	NC_021163.1	Ca_kabuli_chr04	11384887	TT	AA	1946791257
SNP_P4_41104_11385028	NC_021163.1	Ca_kabuli_chr04	11385028	TT	AA	1946791259
SNP_P4_41105_11385227	NC_021163.1	Ca_kabuli_chr04	11385227	CC	GG	1946791261
SNP_P4_41106_11387391	NC_021163.1	Ca_kabuli_chr04	11387391	TT	AA	1946791263
SNP_P4_41107_11387463	NC_021163.1	Ca_kabuli_chr04	11387463	AA	GG	1946791265
SNP_P4_41108_11390965	NC_021163.1	Ca_kabuli_chr04	11390965	CC	AA	1946791267
SNP_P4_41109_11391254	NC_021163.1	Ca_kabuli_chr04	11391254	TT	CC	1946791269
SNP_P4_41110_11392023	NC_021163.1	Ca_kabuli_chr04	11392023	GG	TT	1946791271
SNP_P4_41111_11393164	NC_021163.1	Ca_kabuli_chr04	11393164	AA	GG	1946791273
SNP_P4_41113_11393464	NC_021163.1	Ca_kabuli_chr04	11393464	GG	AA	1946791275
SNP_P4_41114_11394277	NC_021163.1	Ca_kabuli_chr04	11394277	TT	GG	1946791277
SNP_P4_41116_11395430	NC_021163.1	Ca_kabuli_chr04	11395430	TT	AA	1946791279
SNP_P4_41118_11395697	NC_021163.1	Ca_kabuli_chr04	11395697	TT	AA	1946791281
SNP_P4_41119_11396189	NC_021163.1	Ca_kabuli_chr04	11396189	AA	GG	1946791283
SNP_P4_41120_11396992	NC_021163.1	Ca_kabuli_chr04	11396992	CC	TT	1946791285
SNP_P4_41121_11397336	NC_021163.1	Ca_kabuli_chr04	11397336	AA	GG	1946791288
SNP_P4_41123_11398699	NC_021163.1	Ca_kabuli_chr04	11398699	AA	GG	1946791290
SNP_P4_41124_11400091	NC_021163.1	Ca_kabuli_chr04	11400091	AA	TT	1946791292
SNP_P4_41125_11400134	NC_021163.1	Ca_kabuli_chr04	11400134	GG	AA	1946791294

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_41127_11400539	NC_021163.1	Ca_kabuli_chr04	11400539	CC	GG	1946791298
SNP_P4_41128_11400556	NC_021163.1	Ca_kabuli_chr04	11400556	TT	AA	1946791300
SNP_P4_41129_11400742	NC_021163.1	Ca_kabuli_chr04	11400742	AA	GG	1946791302
SNP_P4_41130_11400826	NC_021163.1	Ca_kabuli_chr04	11400826	CC	AA	1946791304
SNP_P4_41131_11400832	NC_021163.1	Ca_kabuli_chr04	11400832	TT	AA	1946791306
SNP_P4_41132_11400905	NC_021163.1	Ca_kabuli_chr04	11400905	TT	CC	1946791308
SNP_P4_41133_11400915	NC_021163.1	Ca_kabuli_chr04	11400915	GG	AA	1946791310
SNP_P4_41134_11401160	NC_021163.1	Ca_kabuli_chr04	11401160	CC	TT	1946791312
SNP_P4_41135_11401254	NC_021163.1	Ca_kabuli_chr04	11401254	TT	GG	1946791314
SNP_P4_41136_11403537	NC_021163.1	Ca_kabuli_chr04	11403537	AA	CC	1946791316
SNP_P4_41137_11403656	NC_021163.1	Ca_kabuli_chr04	11403656	AA	GG	1946791318
SNP_P4_41138_11403697	NC_021163.1	Ca_kabuli_chr04	11403697	TT	GG	1946791320
SNP_P4_41139_11403703	NC_021163.1	Ca_kabuli_chr04	11403703	CC	AA	1946791322
SNP_P4_41140_11403714	NC_021163.1	Ca_kabuli_chr04	11403714	GG	AA	1946791324
SNP_P4_41141_11403941	NC_021163.1	Ca_kabuli_chr04	11403941	TT	CC	1946791326
SNP_P4_41142_11404742	NC_021163.1	Ca_kabuli_chr04	11404742	GG	AA	1946791328
SNP_P4_41143_11404744	NC_021163.1	Ca_kabuli_chr04	11404744	TT	CC	1946791330
SNP_P4_41144_11404762	NC_021163.1	Ca_kabuli_chr04	11404762	CC	TT	1946791332
SNP_P4_41145_11404801	NC_021163.1	Ca_kabuli_chr04	11404801	AA	CC	1946791334
SNP_P4_41146_11404828	NC_021163.1	Ca_kabuli_chr04	11404828	TT	GG	1946791336
SNP_P4_41147_11404876	NC_021163.1	Ca_kabuli_chr04	11404876	GG	TT	1946791338
SNP_P4_41148_11406943	NC_021163.1	Ca_kabuli_chr04	11406943	AA	CC	1946791340
SNP_P4_41149_11408451	NC_021163.1	Ca_kabuli_chr04	11408451	GG	TT	1946791342
SNP_P4_41150_11408840	NC_021163.1	Ca_kabuli_chr04	11408840	AA	CC	1946791344
SNP_P4_41151_11412761	NC_021163.1	Ca_kabuli_chr04	11412761	GG	CC	1946791345
SNP_P4_41152_11412912	NC_021163.1	Ca_kabuli_chr04	11412912	TT	CC	1946791347
SNP_P4_41153_11414655	NC_021163.1	Ca_kabuli_chr04	11414655	CC	TT	1946791349
SNP_P4_41154_11415090	NC_021163.1	Ca_kabuli_chr04	11415090	TT	CC	1946791351
SNP_P4_41155_11415142	NC_021163.1	Ca_kabuli_chr04	11415142	GG	AA	1946791353
SNP_P4_41156_11415190	NC_021163.1	Ca_kabuli_chr04	11415190	TT	CC	1946791355
SNP_P4_41157_11415266	NC_021163.1	Ca_kabuli_chr04	11415266	TT	GG	1946791357
SNP_P4_41158_11415316	NC_021163.1	Ca_kabuli_chr04	11415316	GG	AA	1946791359
SNP_P4_41159_11415521	NC_021163.1	Ca_kabuli_chr04	11415521	CC	TT	1946791361
SNP_P4_41160_11415646	NC_021163.1	Ca_kabuli_chr04	11415646	TT	CC	1946791362
SNP_P4_41161_11415653	NC_021163.1	Ca_kabuli_chr04	11415653	TT	CC	1946791364
SNP_P4_41162_11415874	NC_021163.1	Ca_kabuli_chr04	11415874	CC	TT	1946791366
SNP_P4_41163_11417676	NC_021163.1	Ca_kabuli_chr04	11417676	CC	TT	1946791368
SNP_P4_41164_11417684	NC_021163.1	Ca_kabuli_chr04	11417684	TT	GG	1946791370
SNP_P4_41165_11419544	NC_021163.1	Ca_kabuli_chr04	11419544	TT	GG	1946791372
SNP_P4_41166_11423261	NC_021163.1	Ca_kabuli_chr04	11423261	GG	AA	1946791374
SNP_P4_41168_11425471	NC_021163.1	Ca_kabuli_chr04	11425471	GG	AA	1946791376

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_41170_11425682	NC_021163.1	Ca_kabuli_chr04	11425682	GG	CC	1946791380
SNP_P4_41172_11425833	NC_021163.1	Ca_kabuli_chr04	11425833	GG	AA	1946791382
SNP_P4_41173_11425844	NC_021163.1	Ca_kabuli_chr04	11425844	AA	GG	1946791384
SNP_P4_41174_11425868	NC_021163.1	Ca_kabuli_chr04	11425868	CC	AA	1946791387
SNP_P4_41175_11425912	NC_021163.1	Ca_kabuli_chr04	11425912	TT	CC	1946791389
SNP_P4_41176_11425919	NC_021163.1	Ca_kabuli_chr04	11425919	TT	CC	1946791391
SNP_P4_41177_11426107	NC_021163.1	Ca_kabuli_chr04	11426107	AA	TT	1946791393
SNP_P4_41178_11426113	NC_021163.1	Ca_kabuli_chr04	11426113	AA	GG	1946791395
SNP_P4_41179_11426116	NC_021163.1	Ca_kabuli_chr04	11426116	AA	CC	1946791397
SNP_P4_41180_11426473	NC_021163.1	Ca_kabuli_chr04	11426473	CC	AA	1946791399
SNP_P4_41181_11426490	NC_021163.1	Ca_kabuli_chr04	11426490	AA	CC	1946791401
SNP_P4_41182_11426577	NC_021163.1	Ca_kabuli_chr04	11426577	GG	CC	1946791403
SNP_P4_41183_11426583	NC_021163.1	Ca_kabuli_chr04	11426583	AA	TT	1946791405
SNP_P4_41184_11426814	NC_021163.1	Ca_kabuli_chr04	11426814	GG	AA	1946791407
SNP_P4_41185_11429847	NC_021163.1	Ca_kabuli_chr04	11429847	AA	CC	1946791409
SNP_P4_41186_11429852	NC_021163.1	Ca_kabuli_chr04	11429852	TT	CC	1946791411
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SNP_P4_41190_11434169	NC_021163.1	Ca_kabuli_chr04	11434169	AA	TT	1946791419
SNP_P4_41191_11434284	NC_021163.1	Ca_kabuli_chr04	11434284	CC	TT	1946791421
SNP_P4_41192_11434343	NC_021163.1	Ca_kabuli_chr04	11434343	AA	GG	1946791423
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SNP_P4_41195_11435161	NC_021163.1	Ca_kabuli_chr04	11435161	AA	GG	1946791427
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SNP_P4_41202_11437977	NC_021163.1	Ca_kabuli_chr04	11437977	GG	TT	1946791439
SNP_P4_41203_11438106	NC_021163.1	Ca_kabuli_chr04	11438106	GG	AA	1946791441
SNP_P4_41204_11440109	NC_021163.1	Ca_kabuli_chr04	11440109	CC	TT	1946791443
SNP_P4_41205_11440311	NC_021163.1	Ca_kabuli_chr04	11440311	AA	CC	1946791445
SNP_P4_41207_11440964	NC_021163.1	Ca_kabuli_chr04	11440964	TT	CC	1946791447
SNP_P4_41208_11440998	NC_021163.1	Ca_kabuli_chr04	11440998	GG	AA	1946791449
SNP_P4_41209_11441257	NC_021163.1	Ca_kabuli_chr04	11441257	CC	AA	1946791451
SNP_P4_41210_11441263	NC_021163.1	Ca_kabuli_chr04	11441263	CC	AA	1946791453
SNP_P4_41211_11441308	NC_021163.1	Ca_kabuli_chr04	11441308	CC	TT	1946791455
SNP_P4_41212_11441536	NC_021163.1	Ca_kabuli_chr04	11441536	AA	GG	1946791457
SNP_P4_41213_11441553	NC_021163.1	Ca_kabuli_chr04	11441553	AA	TT	1946791459
SNP_P4_41214_11441604	NC_021163.1	Ca_kabuli_chr04	11441604	TT	AA	1946791461

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_41217_11443042	NC_021163.1	Ca_kabuli_chr04	11443042	AA	TT	1946791465
SNP_P4_41219_11444433	NC_021163.1	Ca_kabuli_chr04	11444433	CC	TT	1946791467
SNP_P4_41220_11444720	NC_021163.1	Ca_kabuli_chr04	11444720	CC	TT	1946791469
SNP_P4_41221_11444731	NC_021163.1	Ca_kabuli_chr04	11444731	CC	TT	1946791471
SNP_P4_41222_11446048	NC_021163.1	Ca_kabuli_chr04	11446048	AA	GG	1946791473
SNP_P4_41223_11446067	NC_021163.1	Ca_kabuli_chr04	11446067	GG	AA	1946791475
SNP_P4_41224_11446188	NC_021163.1	Ca_kabuli_chr04	11446188	AA	GG	1946791477
SNP_P4_41225_11446194	NC_021163.1	Ca_kabuli_chr04	11446194	AA	GG	1946791479
SNP_P4_41227_11446448	NC_021163.1	Ca_kabuli_chr04	11446448	CC	AA	1946791481
SNP_P4_41228_11446456	NC_021163.1	Ca_kabuli_chr04	11446456	CC	TT	1946791483
SNP_P4_41229_11447407	NC_021163.1	Ca_kabuli_chr04	11447407	GG	AA	1946791485
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SNP_P4_41234_11447899	NC_021163.1	Ca_kabuli_chr04	11447899	TT	CC	1946791491
SNP_P4_41235_11448276	NC_021163.1	Ca_kabuli_chr04	11448276	TT	CC	1946791493
SNP_P4_41238_11449921	NC_021163.1	Ca_kabuli_chr04	11449921	GG	AA	1946791495
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SNP_P4_41240_11450028	NC_021163.1	Ca_kabuli_chr04	11450028	GG	TT	1946791498
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SNP_P4_41244_11451880	NC_021163.1	Ca_kabuli_chr04	11451880	TT	GG	1946791506
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SNP_P4_41248_11453212	NC_021163.1	Ca_kabuli_chr04	11453212	TT	CC	1946791514
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SNP_P4_41251_11453477	NC_021163.1	Ca_kabuli_chr04	11453477	GG	CC	1946791520
SNP_P4_41252_11453531	NC_021163.1	Ca_kabuli_chr04	11453531	CC	TT	1946791522
SNP_P4_41253_11453581	NC_021163.1	Ca_kabuli_chr04	11453581	GG	AA	1946791524
SNP_P4_41254_11453602	NC_021163.1	Ca_kabuli_chr04	11453602	AA	GG	1946791526
SNP_P4_41256_11453785	NC_021163.1	Ca_kabuli_chr04	11453785	CC	GG	1946791528
SNP_P4_41257_11453798	NC_021163.1	Ca_kabuli_chr04	11453798	GG	AA	1946791530
SNP_P4_41258_11454640	NC_021163.1	Ca_kabuli_chr04	11454640	TT	CC	1946791532
SNP_P4_41259_11456503	NC_021163.1	Ca_kabuli_chr04	11456503	TT	CC	1946791534
SNP_P4_41260_11457599	NC_021163.1	Ca_kabuli_chr04	11457599	CC	TT	1946791536
SNP_P4_41261_11457606	NC_021163.1	Ca_kabuli_chr04	11457606	GG	AA	1946791538
SNP_P4_41262_11457654	NC_021163.1	Ca_kabuli_chr04	11457654	TT	CC	1946791540
SNP_P4_41263_11459186	NC_021163.1	Ca_kabuli_chr04	11459186	CC	TT	1946791542
SNP_P4_41264_11459221	NC_021163.1	Ca_kabuli_chr04	11459221	GG	AA	1946791544

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_41267_11459984	NC_021163.1	Ca_kabuli_chr04	11459984	AA	TT	1946791548
SNP_P4_41268_11460230	NC_021163.1	Ca_kabuli_chr04	11460230	GG	AA	1946791550
SNP_P4_41269_11461766	NC_021163.1	Ca_kabuli_chr04	11461766	GG	TT	1946791552
SNP_P4_41271_11462654	NC_021163.1	Ca_kabuli_chr04	11462654	AA	TT	1946791554
SNP_P4_41272_11462665	NC_021163.1	Ca_kabuli_chr04	11462665	AA	CC	1946791556
SNP_P4_41273_11463026	NC_021163.1	Ca_kabuli_chr04	11463026	GG	AA	1946791558
SNP_P4_41274_11463027	NC_021163.1	Ca_kabuli_chr04	11463027	TT	AA	1946791561
SNP_P4_41275_11463030	NC_021163.1	Ca_kabuli_chr04	11463030	AA	TT	1946791563
SNP_P4_41276_11463034	NC_021163.1	Ca_kabuli_chr04	11463034	TT	GG	1946791565
SNP_P4_41277_11463036	NC_021163.1	Ca_kabuli_chr04	11463036	TT	AA	1946791567
SNP_P4_41278_11463037	NC_021163.1	Ca_kabuli_chr04	11463037	TT	CC	1946791569
SNP_P4_41279_11463040	NC_021163.1	Ca_kabuli_chr04	11463040	CC	AA	1946791570
SNP_P4_41280_11463050	NC_021163.1	Ca_kabuli_chr04	11463050	AA	GG	1946791572
SNP_P4_41281_11463057	NC_021163.1	Ca_kabuli_chr04	11463057	GG	AA	1946791574
SNP_P4_41282_11463066	NC_021163.1	Ca_kabuli_chr04	11463066	TT	CC	1946791576
SNP_P4_41283_11463083	NC_021163.1	Ca_kabuli_chr04	11463083	GG	AA	1946791578
SNP_P4_41284_11463174	NC_021163.1	Ca_kabuli_chr04	11463174	AA	GG	1946791580
SNP_P4_41285_11463181	NC_021163.1	Ca_kabuli_chr04	11463181	AA	CC	1946791582
SNP_P4_41286_11463214	NC_021163.1	Ca_kabuli_chr04	11463214	CC	TT	1946791584
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SNP_P4_41288_11463687	NC_021163.1	Ca_kabuli_chr04	11463687	TT	AA	1946791588
SNP_P4_41289_11466893	NC_021163.1	Ca_kabuli_chr04	11466893	GG	AA	1946791590
SNP_P4_41290_11466938	NC_021163.1	Ca_kabuli_chr04	11466938	AA	TT	1946791592
SNP_P4_41291_11466952	NC_021163.1	Ca_kabuli_chr04	11466952	TT	CC	1946791594
SNP_P4_41292_11467351	NC_021163.1	Ca_kabuli_chr04	11467351	CC	AA	1946791596
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SNP_P4_41295_11467778	NC_021163.1	Ca_kabuli_chr04	11467778	CC	TT	1946791602
SNP_P4_41296_11467887	NC_021163.1	Ca_kabuli_chr04	11467887	AA	GG	1946791604
SNP_P4_41297_11467924	NC_021163.1	Ca_kabuli_chr04	11467924	GG	TT	1946791606
SNP_P4_41298_11467968	NC_021163.1	Ca_kabuli_chr04	11467968	AA	GG	1946791608
SNP_P4_41299_11467994	NC_021163.1	Ca_kabuli_chr04	11467994	CC	TT	1946791610
SNP_P4_41300_11468008	NC_021163.1	Ca_kabuli_chr04	11468008	TT	CC	1946791612
SNP_P4_41301_11468012	NC_021163.1	Ca_kabuli_chr04	11468012	AA	TT	1946791614
SNP_P4_41302_11468026	NC_021163.1	Ca_kabuli_chr04	11468026	TT	CC	1946791616
SNP_P4_41303_11468049	NC_021163.1	Ca_kabuli_chr04	11468049	TT	CC	1946791618
SNP_P4_41304_11468050	NC_021163.1	Ca_kabuli_chr04	11468050	CC	TT	1946791620
SNP_P4_41305_11468239	NC_021163.1	Ca_kabuli_chr04	11468239	GG	AA	1946791622
SNP_P4_41306_11468259	NC_021163.1	Ca_kabuli_chr04	11468259	CC	TT	1946791624
SNP_P4_41307_11468305	NC_021163.1	Ca_kabuli_chr04	11468305	TT	CC	1946791626
SNP_P4_41309_11468769	NC_021163.1	Ca_kabuli_chr04	11468769	AA	GG	1946791628

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_41311_11468822	NC_021163.1	Ca_kabuli_chr04	11468822	TT	CC	1946791632
SNP_P4_41312_11468928	NC_021163.1	Ca_kabuli_chr04	11468928	TT	CC	1946791634
SNP_P4_41313_11469203	NC_021163.1	Ca_kabuli_chr04	11469203	GG	AA	1946791636
SNP_P4_41314_11469538	NC_021163.1	Ca_kabuli_chr04	11469538	AA	GG	1946791638
SNP_P4_41315_11469569	NC_021163.1	Ca_kabuli_chr04	11469569	AA	TT	1946791640
SNP_P4_41316_11469906	NC_021163.1	Ca_kabuli_chr04	11469906	CC	AA	1946791642
SNP_P4_41317_11470018	NC_021163.1	Ca_kabuli_chr04	11470018	GG	AA	1946791644
SNP_P4_41318_11470208	NC_021163.1	Ca_kabuli_chr04	11470208	GG	CC	1946791646
SNP_P4_41319_11470486	NC_021163.1	Ca_kabuli_chr04	11470486	GG	AA	1946791649
SNP_P4_41320_11470701	NC_021163.1	Ca_kabuli_chr04	11470701	GG	AA	1946791651
SNP_P4_41321_11470901	NC_021163.1	Ca_kabuli_chr04	11470901	AA	TT	1946791653
SNP_P4_41322_11471018	NC_021163.1	Ca_kabuli_chr04	11471018	CC	AA	1946791655
SNP_P4_41323_11471233	NC_021163.1	Ca_kabuli_chr04	11471233	TT	CC	1946791657
SNP_P4_41324_11471347	NC_021163.1	Ca_kabuli_chr04	11471347	TT	CC	1946791659
SNP_P4_41325_11471426	NC_021163.1	Ca_kabuli_chr04	11471426	TT	GG	1946791661
SNP_P4_41326_11471596	NC_021163.1	Ca_kabuli_chr04	11471596	TT	CC	1946791663
SNP_P4_41327_11471641	NC_021163.1	Ca_kabuli_chr04	11471641	AA	GG	1946791665
SNP_P4_41328_11472048	NC_021163.1	Ca_kabuli_chr04	11472048	CC	TT	1946791667
SNP_P4_41329_11472055	NC_021163.1	Ca_kabuli_chr04	11472055	AA	TT	1946791669
SNP_P4_41330_11472168	NC_021163.1	Ca_kabuli_chr04	11472168	AA	GG	1946791671
SNP_P4_41331_11472182	NC_021163.1	Ca_kabuli_chr04	11472182	TT	CC	1946791673
SNP_P4_41332_11472183	NC_021163.1	Ca_kabuli_chr04	11472183	CC	AA	1946791675
SNP_P4_41334_11473092	NC_021163.1	Ca_kabuli_chr04	11473092	TT	CC	1946791677
SNP_P4_41337_11473591	NC_021163.1	Ca_kabuli_chr04	11473591	CC	GG	1946791679
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SNP_P4_41339_11474609	NC_021163.1	Ca_kabuli_chr04	11474609	AA	GG	1946791684
SNP_P4_41340_11476924	NC_021163.1	Ca_kabuli_chr04	11476924	TT	CC	1946791686
SNP_P4_41341_11476984	NC_021163.1	Ca_kabuli_chr04	11476984	CC	GG	1946791688
SNP_P4_41342_11476992	NC_021163.1	Ca_kabuli_chr04	11476992	TT	AA	1946791690
SNP_P4_41343_11477291	NC_021163.1	Ca_kabuli_chr04	11477291	AA	TT	1946791692
SNP_P4_41344_11477326	NC_021163.1	Ca_kabuli_chr04	11477326	CC	TT	1946791694
SNP_P4_41345_11477588	NC_021163.1	Ca_kabuli_chr04	11477588	TT	CC	1946791696
SNP_P4_41346_11477921	NC_021163.1	Ca_kabuli_chr04	11477921	CC	TT	1946791698
SNP_P4_41347_11478063	NC_021163.1	Ca_kabuli_chr04	11478063	CC	TT	1946791700
SNP_P4_41349_11478147	NC_021163.1	Ca_kabuli_chr04	11478147	AA	CC	1946791703
SNP_P4_41350_11478397	NC_021163.1	Ca_kabuli_chr04	11478397	CC	TT	1946791705
SNP_P4_41353_11479158	NC_021163.1	Ca_kabuli_chr04	11479158	CC	GG	1946791707
SNP_P4_41354_11480310	NC_021163.1	Ca_kabuli_chr04	11480310	GG	TT	1946791709
SNP_P4_41355_11481179	NC_021163.1	Ca_kabuli_chr04	11481179	AA	CC	1946791711
SNP_P4_41356_11481469	NC_021163.1	Ca_kabuli_chr04	11481469	GG	TT	1946791713
SNP_P4_41357_11481484	NC_021163.1	Ca_kabuli_chr04	11481484	TT	CC	1946791715

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_41360_11481943	NC_021163.1	Ca_kabuli_chr04	11481943	TT	AA	1946791721
SNP_P4_41361_11482001	NC_021163.1	Ca_kabuli_chr04	11482001	CC	AA	1946791723
SNP_P4_41362_11482365	NC_021163.1	Ca_kabuli_chr04	11482365	AA	GG	1946791725
SNP_P4_41365_11483761	NC_021163.1	Ca_kabuli_chr04	11483761	AA	GG	1946791727
SNP_P4_41366_11484060	NC_021163.1	Ca_kabuli_chr04	11484060	TT	AA	1946791729
SNP_P4_41367_11484107	NC_021163.1	Ca_kabuli_chr04	11484107	TT	CC	1946791731
SNP_P4_41368_11488876	NC_021163.1	Ca_kabuli_chr04	11488876	AA	GG	1946791733
SNP_P4_41369_11488906	NC_021163.1	Ca_kabuli_chr04	11488906	CC	TT	1946791735
SNP_P4_41370_11488987	NC_021163.1	Ca_kabuli_chr04	11488987	TT	AA	1946791738
SNP_P4_41371_11489186	NC_021163.1	Ca_kabuli_chr04	11489186	AA	TT	1946791740
SNP_P4_41372_11491864	NC_021163.1	Ca_kabuli_chr04	11491864	AA	CC	1946791742
SNP_P4_41373_11492076	NC_021163.1	Ca_kabuli_chr04	11492076	TT	CC	1946791744
SNP_P4_41374_11492185	NC_021163.1	Ca_kabuli_chr04	11492185	CC	AA	1946791746
SNP_P4_41376_11492461	NC_021163.1	Ca_kabuli_chr04	11492461	TT	CC	1946791748
SNP_P4_41377_11492581	NC_021163.1	Ca_kabuli_chr04	11492581	TT	CC	1946791750
SNP_P4_41378_11492588	NC_021163.1	Ca_kabuli_chr04	11492588	TT	GG	1946791752
SNP_P4_41382_11493723	NC_021163.1	Ca_kabuli_chr04	11493723	AA	GG	1946791754
SNP_P4_41384_11493852	NC_021163.1	Ca_kabuli_chr04	11493852	CC	AA	1946791756
SNP_P4_41385_11493898	NC_021163.1	Ca_kabuli_chr04	11493898	GG	TT	1946791758
SNP_P4_41386_11494207	NC_021163.1	Ca_kabuli_chr04	11494207	GG	TT	1946791760
SNP_P4_41388_11494382	NC_021163.1	Ca_kabuli_chr04	11494382	TT	CC	1946791762
SNP_P4_41389_11494440	NC_021163.1	Ca_kabuli_chr04	11494440	CC	TT	1946791764
SNP_P4_41392_11496674	NC_021163.1	Ca_kabuli_chr04	11496674	TT	CC	1946791766
SNP_P4_41393_11496683	NC_021163.1	Ca_kabuli_chr04	11496683	AA	GG	1946791768
SNP_P4_41394_11505325	NC_021163.1	Ca_kabuli_chr04	11505325	CC	AA	1946791770
SNP_P4_41397_11506885	NC_021163.1	Ca_kabuli_chr04	11506885	CC	TT	1946791772
SNP_P4_41398_11512609	NC_021163.1	Ca_kabuli_chr04	11512609	GG	TT	1946791774
SNP_P4_41399_11512638	NC_021163.1	Ca_kabuli_chr04	11512638	TT	GG	1946791776
SNP_P4_41400_11512654	NC_021163.1	Ca_kabuli_chr04	11512654	TT	CC	1946791778
SNP_P4_41401_11512678	NC_021163.1	Ca_kabuli_chr04	11512678	GG	CC	1946791780
SNP_P4_41402_11512872	NC_021163.1	Ca_kabuli_chr04	11512872	TT	CC	1946791783
SNP_P4_41403_11512894	NC_021163.1	Ca_kabuli_chr04	11512894	GG	AA	1946791785
SNP_P4_41404_11513136	NC_021163.1	Ca_kabuli_chr04	11513136	TT	GG	1946791787
SNP_P4_41405_11513426	NC_021163.1	Ca_kabuli_chr04	11513426	GG	TT	1946791789
SNP_P4_41407_11514353	NC_021163.1	Ca_kabuli_chr04	11514353	TT	CC	1946791791
SNP_P4_41408_11514373	NC_021163.1	Ca_kabuli_chr04	11514373	GG	AA	1946791793
SNP_P4_41410_11514456	NC_021163.1	Ca_kabuli_chr04	11514456	AA	GG	1946791795
SNP_P4_41411_11514870	NC_021163.1	Ca_kabuli_chr04	11514870	AA	CC	1946791797
SNP_P4_41412_11515443	NC_021163.1	Ca_kabuli_chr04	11515443	GG	AA	1946791799
SNP_P4_41413_11515735	NC_021163.1	Ca_kabuli_chr04	11515735	CC	TT	1946791801

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_41415_11516293	NC_021163.1	Ca_kabuli_chr04	11516293	AA	GG	1946791806
SNP_P4_41416_11516329	NC_021163.1	Ca_kabuli_chr04	11516329	AA	GG	1946791808
SNP_P4_41417_11516379	NC_021163.1	Ca_kabuli_chr04	11516379	AA	GG	1946791810
SNP_P4_41418_11516547	NC_021163.1	Ca_kabuli_chr04	11516547	TT	CC	1946791812
SNP_P4_41419_11517219	NC_021163.1	Ca_kabuli_chr04	11517219	TT	CC	1946791814
SNP_P4_41420_11517517	NC_021163.1	Ca_kabuli_chr04	11517517	CC	AA	1946791816
SNP_P4_41421_11517969	NC_021163.1	Ca_kabuli_chr04	11517969	CC	TT	1946791819
SNP_P4_41422_11518068	NC_021163.1	Ca_kabuli_chr04	11518068	AA	GG	1946791821
SNP_P4_41423_11518846	NC_021163.1	Ca_kabuli_chr04	11518846	AA	GG	1946791823
SNP_P4_41424_11519124	NC_021163.1	Ca_kabuli_chr04	11519124	GG	AA	1946791825
SNP_P4_41425_11519251	NC_021163.1	Ca_kabuli_chr04	11519251	CC	TT	1946791827
SNP_P4_41426_11519400	NC_021163.1	Ca_kabuli_chr04	11519400	CC	TT	1946791829
SNP_P4_41427_11519562	NC_021163.1	Ca_kabuli_chr04	11519562	AA	GG	1946791831
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SNP_P4_41429_11520644	NC_021163.1	Ca_kabuli_chr04	11520644	AA	GG	1946791835
SNP_P4_41430_11520937	NC_021163.1	Ca_kabuli_chr04	11520937	AA	GG	1946791837
SNP_P4_41431_11521002	NC_021163.1	Ca_kabuli_chr04	11521002	CC	AA	1946791839
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SNP_P4_41434_11524339	NC_021163.1	Ca_kabuli_chr04	11524339	TT	CC	1946791845
SNP_P4_41435_11527360	NC_021163.1	Ca_kabuli_chr04	11527360	AA	TT	1946791848
SNP_P4_41436_11527361	NC_021163.1	Ca_kabuli_chr04	11527361	TT	GG	1946791850
SNP_P4_41437_11527379	NC_021163.1	Ca_kabuli_chr04	11527379	GG	CC	1946791852
SNP_P4_41438_11527412	NC_021163.1	Ca_kabuli_chr04	11527412	TT	GG	1946791854
SNP_P4_41439_11527693	NC_021163.1	Ca_kabuli_chr04	11527693	AA	GG	1946791856
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SNP_P4_41441_11527754	NC_021163.1	Ca_kabuli_chr04	11527754	GG	AA	1946791861
SNP_P4_41442_11527769	NC_021163.1	Ca_kabuli_chr04	11527769	CC	TT	1946791863
SNP_P4_41443_11527831	NC_021163.1	Ca_kabuli_chr04	11527831	CC	TT	1946791865
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SNP_P4_41445_11528172	NC_021163.1	Ca_kabuli_chr04	11528172	CC	TT	1946791869
SNP_P4_41446_11529125	NC_021163.1	Ca_kabuli_chr04	11529125	AA	GG	1946791871
SNP_P4_41447_11529193	NC_021163.1	Ca_kabuli_chr04	11529193	AA	CC	1946791873
SNP_P4_41448_11529259	NC_021163.1	Ca_kabuli_chr04	11529259	TT	GG	1946791876
SNP_P4_41449_11532582	NC_021163.1	Ca_kabuli_chr04	11532582	CC	AA	1946791878
SNP_P4_41450_11532623	NC_021163.1	Ca_kabuli_chr04	11532623	CC	TT	1946791881
SNP_P4_41451_11532679	NC_021163.1	Ca_kabuli_chr04	11532679	CC	TT	1946791883
SNP_P4_41452_11533176	NC_021163.1	Ca_kabuli_chr04	11533176	AA	GG	1946791885
SNP_P4_41453_11533502	NC_021163.1	Ca_kabuli_chr04	11533502	GG	AA	1946791887
SNP_P4_41454_11533508	NC_021163.1	Ca_kabuli_chr04	11533508	GG	AA	1946791889
SNP_P4_41455_11534219	NC_021163.1	Ca_kabuli_chr04	11534219	AA	GG	1946791891

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_41458_11535179	NC_021163.1	Ca_kabuli_chr04	11535179	CC	TT	1946791898
SNP_P4_41459_11535372	NC_021163.1	Ca_kabuli_chr04	11535372	CC	TT	1946791900
SNP_P4_41460_11535422	NC_021163.1	Ca_kabuli_chr04	11535422	GG	AA	1946791902
SNP_P4_41461_11535779	NC_021163.1	Ca_kabuli_chr04	11535779	TT	AA	1946791904
SNP_P4_41462_11535895	NC_021163.1	Ca_kabuli_chr04	11535895	GG	AA	1946791906
SNP_P4_41463_11535919	NC_021163.1	Ca_kabuli_chr04	11535919	GG	AA	1946791908
SNP_P4_41465_11537385	NC_021163.1	Ca_kabuli_chr04	11537385	AA	GG	1946791910
SNP_P4_41466_11537389	NC_021163.1	Ca_kabuli_chr04	11537389	CC	GG	1946791912
SNP_P4_41467_11537392	NC_021163.1	Ca_kabuli_chr04	11537392	CC	TT	1946791914
SNP_P4_41468_11537393	NC_021163.1	Ca_kabuli_chr04	11537393	CC	TT	1946791916
SNP_P4_41469_11537405	NC_021163.1	Ca_kabuli_chr04	11537405	GG	TT	1946791918
SNP_P4_41470_11537634	NC_021163.1	Ca_kabuli_chr04	11537634	AA	GG	1946791920
SNP_P4_41471_11537856	NC_021163.1	Ca_kabuli_chr04	11537856	GG	AA	1946791922
SNP_P4_41472_11539296	NC_021163.1	Ca_kabuli_chr04	11539296	CC	TT	1946791924
SNP_P4_41474_11539400	NC_021163.1	Ca_kabuli_chr04	11539400	CC	TT	1946791926
SNP_P4_41475_11539536	NC_021163.1	Ca_kabuli_chr04	11539536	AA	TT	1946791928
SNP_P4_41476_11539579	NC_021163.1	Ca_kabuli_chr04	11539579	CC	TT	1946791930
SNP_P4_41477_11540218	NC_021163.1	Ca_kabuli_chr04	11540218	CC	TT	1946791932
SNP_P4_41478_11540223	NC_021163.1	Ca_kabuli_chr04	11540223	CC	TT	1946791934
SNP_P4_41479_11541352	NC_021163.1	Ca_kabuli_chr04	11541352	GG	AA	1946791936
SNP_P4_41480_11541376	NC_021163.1	Ca_kabuli_chr04	11541376	GG	CC	1946791938
SNP_P4_41481_11541377	NC_021163.1	Ca_kabuli_chr04	11541377	GG	AA	1946791941
SNP_P4_41482_11541775	NC_021163.1	Ca_kabuli_chr04	11541775	CC	GG	1946791943
SNP_P4_41483_11541784	NC_021163.1	Ca_kabuli_chr04	11541784	TT	AA	1946791945
SNP_P4_41484_11542022	NC_021163.1	Ca_kabuli_chr04	11542022	TT	CC	1946791947
SNP_P4_41485_11542077	NC_021163.1	Ca_kabuli_chr04	11542077	TT	CC	1946791949
SNP_P4_41486_11542112	NC_021163.1	Ca_kabuli_chr04	11542112	AA	GG	1946791951
SNP_P4_41487_11543414	NC_021163.1	Ca_kabuli_chr04	11543414	TT	AA	1946791953
SNP_P4_41488_11543803	NC_021163.1	Ca_kabuli_chr04	11543803	GG	AA	1946791955
SNP_P4_41489_11544530	NC_021163.1	Ca_kabuli_chr04	11544530	GG	AA	1946791957
SNP_P4_41490_11544545	NC_021163.1	Ca_kabuli_chr04	11544545	CC	TT	1946791959
SNP_P4_41491_11544562	NC_021163.1	Ca_kabuli_chr04	11544562	AA	GG	1946791962
SNP_P4_41492_11544582	NC_021163.1	Ca_kabuli_chr04	11544582	AA	GG	1946791964
SNP_P4_41493_11544666	NC_021163.1	Ca_kabuli_chr04	11544666	AA	GG	1946791966
SNP_P4_41494_11544688	NC_021163.1	Ca_kabuli_chr04	11544688	TT	CC	1946791968
SNP_P4_41495_11544694	NC_021163.1	Ca_kabuli_chr04	11544694	TT	AA	1946791970
SNP_P4_41497_11545075	NC_021163.1	Ca_kabuli_chr04	11545075	AA	GG	1946791972
SNP_P4_41498_11545089	NC_021163.1	Ca_kabuli_chr04	11545089	AA	GG	1946791974
SNP_P4_41499_11545152	NC_021163.1	Ca_kabuli_chr04	11545152	GG	CC	1946791976
SNP_P4_41500_11545263	NC_021163.1	Ca_kabuli_chr04	11545263	CC	AA	1946791978

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_41502_11545635	NC_021163.1	Ca_kabuli_chr04	11545635	AA	CC	1946791982
SNP_P4_41503_11545669	NC_021163.1	Ca_kabuli_chr04	11545669	GG	AA	1946791984
SNP_P4_41504_11545838	NC_021163.1	Ca_kabuli_chr04	11545838	TT	GG	1946791986
SNP_P4_41505_11545850	NC_021163.1	Ca_kabuli_chr04	11545850	TT	AA	1946791988
SNP_P4_41506_11545867	NC_021163.1	Ca_kabuli_chr04	11545867	AA	GG	1946791990
SNP_P4_41508_11545920	NC_021163.1	Ca_kabuli_chr04	11545920	TT	AA	1946791992
SNP_P4_41509_11546155	NC_021163.1	Ca_kabuli_chr04	11546155	CC	TT	1946791994
SNP_P4_41510_11546217	NC_021163.1	Ca_kabuli_chr04	11546217	TT	CC	1946791996
SNP_P4_41511_11548304	NC_021163.1	Ca_kabuli_chr04	11548304	GG	AA	1946791998
SNP_P4_41512_11548505	NC_021163.1	Ca_kabuli_chr04	11548505	AA	GG	1946792000
SNP_P4_41513_11548516	NC_021163.1	Ca_kabuli_chr04	11548516	CC	TT	1946792002
SNP_P4_41514_11548523	NC_021163.1	Ca_kabuli_chr04	11548523	TT	GG	1946792004
SNP_P4_41515_11548696	NC_021163.1	Ca_kabuli_chr04	11548696	GG	AA	1946792006
SNP_P4_41516_11548882	NC_021163.1	Ca_kabuli_chr04	11548882	TT	CC	1946792008
SNP_P4_41517_11548903	NC_021163.1	Ca_kabuli_chr04	11548903	CC	TT	1946792011
SNP_P4_41518_11548916	NC_021163.1	Ca_kabuli_chr04	11548916	CC	TT	1946792012
SNP_P4_41519_11548952	NC_021163.1	Ca_kabuli_chr04	11548952	TT	CC	1946792014
SNP_P4_41520_11548987	NC_021163.1	Ca_kabuli_chr04	11548987	GG	TT	1946792016
SNP_P4_41521_11548993	NC_021163.1	Ca_kabuli_chr04	11548993	CC	GG	1946792019
SNP_P4_41522_11549021	NC_021163.1	Ca_kabuli_chr04	11549021	TT	GG	1946792021
SNP_P4_41524_11549217	NC_021163.1	Ca_kabuli_chr04	11549217	CC	TT	1946792023
SNP_P4_41525_11549235	NC_021163.1	Ca_kabuli_chr04	11549235	CC	TT	1946792025
SNP_P4_41526_11549279	NC_021163.1	Ca_kabuli_chr04	11549279	AA	CC	1946792027
SNP_P4_41527_11549289	NC_021163.1	Ca_kabuli_chr04	11549289	AA	TT	1946792029
SNP_P4_41528_11549441	NC_021163.1	Ca_kabuli_chr04	11549441	TT	AA	1946792031
SNP_P4_41529_11549552	NC_021163.1	Ca_kabuli_chr04	11549552	GG	AA	1946792034
SNP_P4_41530_11549598	NC_021163.1	Ca_kabuli_chr04	11549598	AA	GG	1946792036
SNP_P4_41531_11549624	NC_021163.1	Ca_kabuli_chr04	11549624	CC	TT	1946792038
SNP_P4_41533_11549727	NC_021163.1	Ca_kabuli_chr04	11549727	GG	AA	1946792040
SNP_P4_41534_11550598	NC_021163.1	Ca_kabuli_chr04	11550598	CC	AA	1946792042
SNP_P4_41536_11551283	NC_021163.1	Ca_kabuli_chr04	11551283	GG	CC	1946792044
SNP_P4_41537_11552811	NC_021163.1	Ca_kabuli_chr04	11552811	GG	TT	1946792046
SNP_P4_41538_11553184	NC_021163.1	Ca_kabuli_chr04	11553184	GG	AA	1946792048
SNP_P4_41539_11555545	NC_021163.1	Ca_kabuli_chr04	11555545	TT	CC	1946792050
SNP_P4_41540_11555583	NC_021163.1	Ca_kabuli_chr04	11555583	TT	CC	1946792052
SNP_P4_41541_11555589	NC_021163.1	Ca_kabuli_chr04	11555589	CC	AA	1946792054
SNP_P4_41542_11555593	NC_021163.1	Ca_kabuli_chr04	11555593	GG	AA	1946792056
SNP_P4_41543_11555811	NC_021163.1	Ca_kabuli_chr04	11555811	GG	AA	1946792058
SNP_P4_41544_11555823	NC_021163.1	Ca_kabuli_chr04	11555823	AA	CC	1946792060
SNP_P4_41545_11555947	NC_021163.1	Ca_kabuli_chr04	11555947	GG	AA	1946792062
SNP_P4_41547_11556057	NC_021163.1	Ca_kabuli_chr04	11556057	AA	GG	1946792064

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_41550_11558938	NC_021163.1	Ca_kabuli_chr04	11558938	TT	CC	1946792068
SNP_P4_41551_11558941	NC_021163.1	Ca_kabuli_chr04	11558941	GG	AA	1946792070
SNP_P4_41552_11558987	NC_021163.1	Ca_kabuli_chr04	11558987	GG	AA	1946792072
SNP_P4_41553_11560015	NC_021163.1	Ca_kabuli_chr04	11560015	GG	AA	1946792074
SNP_P4_41554_11560078	NC_021163.1	Ca_kabuli_chr04	11560078	CC	TT	1946792076
SNP_P4_41555_11564069	NC_021163.1	Ca_kabuli_chr04	11564069	CC	TT	1946792078
SNP_P4_41556_11564136	NC_021163.1	Ca_kabuli_chr04	11564136	CC	TT	1946792080
SNP_P4_41557_11564380	NC_021163.1	Ca_kabuli_chr04	11564380	AA	GG	1946792082
SNP_P4_41558_11566098	NC_021163.1	Ca_kabuli_chr04	11566098	CC	AA	1946792084
SNP_P4_41559_11568046	NC_021163.1	Ca_kabuli_chr04	11568046	AA	CC	1946792086
SNP_P4_41560_11568295	NC_021163.1	Ca_kabuli_chr04	11568295	TT	CC	1946792088
SNP_P4_41561_11569297	NC_021163.1	Ca_kabuli_chr04	11569297	AA	CC	1946792090
SNP_P4_41562_11569439	NC_021163.1	Ca_kabuli_chr04	11569439	GG	TT	1946792092
SNP_P4_41563_11569570	NC_021163.1	Ca_kabuli_chr04	11569570	AA	TT	1946792094
SNP_P4_41564_11569652	NC_021163.1	Ca_kabuli_chr04	11569652	TT	AA	1946792096
SNP_P4_41565_11570021	NC_021163.1	Ca_kabuli_chr04	11570021	AA	CC	1946792098
SNP_P4_41566_11570426	NC_021163.1	Ca_kabuli_chr04	11570426	AA	CC	1946792101
SNP_P4_41569_11596526	NC_021163.1	Ca_kabuli_chr04	11596526	GG	AA	1946792103
SNP_P4_41571_11602437	NC_021163.1	Ca_kabuli_chr04	11602437	GG	TT	1946792105
SNP_P4_41574_11672415	NC_021163.1	Ca_kabuli_chr04	11672415	TT	AA	1946792107
SNP_P4_41575_11681726	NC_021163.1	Ca_kabuli_chr04	11681726	CC	TT	1946792109
SNP_P4_41576_11681843	NC_021163.1	Ca_kabuli_chr04	11681843	GG	AA	1946792111
SNP_P4_41577_11717422	NC_021163.1	Ca_kabuli_chr04	11717422	TT	AA	1946792114
SNP_P4_41578_11718318	NC_021163.1	Ca_kabuli_chr04	11718318	TT	CC	1946792116
SNP_P4_41579_11726321	NC_021163.1	Ca_kabuli_chr04	11726321	AA	GG	1946792118
SNP_P4_41580_11742384	NC_021163.1	Ca_kabuli_chr04	11742384	TT	GG	1946792120
SNP_P4_41581_11742385	NC_021163.1	Ca_kabuli_chr04	11742385	AA	CC	1946792122
SNP_P4_41582_11758606	NC_021163.1	Ca_kabuli_chr04	11758606	TT	CC	1946792124
SNP_P4_41583_11758636	NC_021163.1	Ca_kabuli_chr04	11758636	AA	CC	1946792126
SNP_P4_41585_11780056	NC_021163.1	Ca_kabuli_chr04	11780056	AA	CC	1946792128
SNP_P4_41586_11785445	NC_021163.1	Ca_kabuli_chr04	11785445	AA	GG	1946792130
SNP_P4_41587_11788317	NC_021163.1	Ca_kabuli_chr04	11788317	CC	GG	1946792132
SNP_P4_41588_11791501	NC_021163.1	Ca_kabuli_chr04	11791501	CC	GG	1946792134
SNP_P4_41589_11793252	NC_021163.1	Ca_kabuli_chr04	11793252	AA	GG	1946792136
SNP_P4_41590_11793596	NC_021163.1	Ca_kabuli_chr04	11793596	TT	CC	1946792138
SNP_P4_41591_11799645	NC_021163.1	Ca_kabuli_chr04	11799645	TT	AA	1946792140
SNP_P4_41592_11809446	NC_021163.1	Ca_kabuli_chr04	11809446	TT	AA	1946792142
SNP_P4_41593_11812023	NC_021163.1	Ca_kabuli_chr04	11812023	TT	CC	1946792144
SNP_P4_41595_11843914	NC_021163.1	Ca_kabuli_chr04	11843914	TT	CC	1946792146
SNP_P4_41596_11844617	NC_021163.1	Ca_kabuli_chr04	11844617	AA	TT	1946792148
SNP_P4_41598_11854405	NC_021163.1	Ca_kabuli_chr04	11854405	TT	GG	1946792150

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_41600_11912180	NC_021163.1	Ca_kabuli_chr04	11912180	CC	TT	1946792154
SNP_P4_41601_11926380	NC_021163.1	Ca_kabuli_chr04	11926380	TT	AA	1946792157
SNP_P4_41602_11974769	NC_021163.1	Ca_kabuli_chr04	11974769	TT	AA	1946792159
SNP_P4_41604_11993067	NC_021163.1	Ca_kabuli_chr04	11993067	TT	CC	1946792161
SNP_P4_41605_11993401	NC_021163.1	Ca_kabuli_chr04	11993401	GG	AA	1946792163
SNP_P4_41608_12033694	NC_021163.1	Ca_kabuli_chr04	12033694	TT	GG	1946792165
SNP_P4_41609_12034942	NC_021163.1	Ca_kabuli_chr04	12034942	TT	CC	1946792167
SNP_P4_41610_12042456	NC_021163.1	Ca_kabuli_chr04	12042456	AA	TT	1946792169
SNP_P4_41611_12042457	NC_021163.1	Ca_kabuli_chr04	12042457	TT	AA	1946792171
SNP_P4_41612_12043012	NC_021163.1	Ca_kabuli_chr04	12043012	TT	CC	1946792173
SNP_P4_41616_12107716	NC_021163.1	Ca_kabuli_chr04	12107716	AA	GG	1946792175
SNP_P4_41617_12119536	NC_021163.1	Ca_kabuli_chr04	12119536	AA	GG	1946792177
SNP_P4_41618_12119559	NC_021163.1	Ca_kabuli_chr04	12119559	TT	AA	1946792179
SNP_P4_41619_12119576	NC_021163.1	Ca_kabuli_chr04	12119576	AA	GG	1946792181
SNP_P4_41621_12127747	NC_021163.1	Ca_kabuli_chr04	12127747	AA	TT	1946792183
SNP_P4_41622_12139607	NC_021163.1	Ca_kabuli_chr04	12139607	AA	TT	1946792185
SNP_P4_41626_12227513	NC_021163.1	Ca_kabuli_chr04	12227513	CC	AA	1946792187
SNP_P4_41627_12255537	NC_021163.1	Ca_kabuli_chr04	12255537	GG	AA	1946792189
SNP_P4_41628_12270147	NC_021163.1	Ca_kabuli_chr04	12270147	AA	GG	1946792191
SNP_P4_41630_12290828	NC_021163.1	Ca_kabuli_chr04	12290828	CC	TT	1946792193
SNP_P4_41631_12292021	NC_021163.1	Ca_kabuli_chr04	12292021	TT	CC	1946792195
SNP_P4_41632_12298586	NC_021163.1	Ca_kabuli_chr04	12298586	TT	CC	1946792197
SNP_P4_41633_12303903	NC_021163.1	Ca_kabuli_chr04	12303903	CC	AA	1946792199
SNP_P4_41634_12322095	NC_021163.1	Ca_kabuli_chr04	12322095	AA	GG	1946792201
SNP_P4_41635_12331116	NC_021163.1	Ca_kabuli_chr04	12331116	AA	GG	1946792203
SNP_P4_41636_12333486	NC_021163.1	Ca_kabuli_chr04	12333486	CC	TT	1946792205
SNP_P4_41637_12333494	NC_021163.1	Ca_kabuli_chr04	12333494	GG	AA	1946792207
SNP_P4_41638_12333495	NC_021163.1	Ca_kabuli_chr04	12333495	GG	CC	1946792209
SNP_P4_41639_12338538	NC_021163.1	Ca_kabuli_chr04	12338538	GG	TT	1946792211
SNP_P4_41640_12338543	NC_021163.1	Ca_kabuli_chr04	12338543	CC	GG	1946792213
SNP_P4_41641_12338562	NC_021163.1	Ca_kabuli_chr04	12338562	AA	CC	1946792215
SNP_P4_41642_12338791	NC_021163.1	Ca_kabuli_chr04	12338791	TT	GG	1946792217
SNP_P4_41643_12338916	NC_021163.1	Ca_kabuli_chr04	12338916	AA	GG	1946792220
SNP_P4_41644_12339153	NC_021163.1	Ca_kabuli_chr04	12339153	TT	CC	1946792222
SNP_P4_41645_12339312	NC_021163.1	Ca_kabuli_chr04	12339312	CC	TT	1946792224
SNP_P4_41646_12339334	NC_021163.1	Ca_kabuli_chr04	12339334	GG	AA	1946792226
SNP_P4_41647_12339362	NC_021163.1	Ca_kabuli_chr04	12339362	AA	GG	1946792228
SNP_P4_41648_12341800	NC_021163.1	Ca_kabuli_chr04	12341800	CC	AA	1946792230
SNP_P4_41650_12371092	NC_021163.1	Ca_kabuli_chr04	12371092	CC	TT	1946792232
SNP_P4_41651_12373989	NC_021163.1	Ca_kabuli_chr04	12373989	CC	TT	1946792234
SNP_P4_41653_12409829	NC_021163.1	Ca_kabuli_chr04	12409829	CC	TT	1946792237

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_41656_12450825	NC_021163.1	Ca_kabuli_chr04	12450825	TT	CC	1946792243
SNP_P4_41657_12460904	NC_021163.1	Ca_kabuli_chr04	12460904	CC	TT	1946792245
SNP_P4_41658_12461639	NC_021163.1	Ca_kabuli_chr04	12461639	GG	AA	1946792247
SNP_P4_41659_12464362	NC_021163.1	Ca_kabuli_chr04	12464362	CC	AA	1946792249
SNP_P4_41660_12464713	NC_021163.1	Ca_kabuli_chr04	12464713	GG	TT	1946792251
SNP_P4_41662_12472751	NC_021163.1	Ca_kabuli_chr04	12472751	TT	CC	1946792253
SNP_P4_41663_12474989	NC_021163.1	Ca_kabuli_chr04	12474989	TT	CC	1946792255
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SNP_P4_41665_12475315	NC_021163.1	Ca_kabuli_chr04	12475315	GG	AA	1946792259
SNP_P4_41666_12475640	NC_021163.1	Ca_kabuli_chr04	12475640	TT	CC	1946792261
SNP_P4_41667_12475660	NC_021163.1	Ca_kabuli_chr04	12475660	AA	GG	1946792263
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SNP_P4_41669_12475993	NC_021163.1	Ca_kabuli_chr04	12475993	GG	AA	1946792267
SNP_P4_41670_12477629	NC_021163.1	Ca_kabuli_chr04	12477629	CC	TT	1946792269
SNP_P4_41671_12477633	NC_021163.1	Ca_kabuli_chr04	12477633	GG	AA	1946792271
SNP_P4_41673_12478463	NC_021163.1	Ca_kabuli_chr04	12478463	AA	TT	1946792273
SNP_P4_41674_12479528	NC_021163.1	Ca_kabuli_chr04	12479528	GG	CC	1946792275
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SNP_P4_41676_12479878	NC_021163.1	Ca_kabuli_chr04	12479878	AA	GG	1946792279
SNP_P4_41678_12480177	NC_021163.1	Ca_kabuli_chr04	12480177	CC	TT	1946792281
SNP_P4_41680_12481059	NC_021163.1	Ca_kabuli_chr04	12481059	GG	AA	1946792283
SNP_P4_41681_12481076	NC_021163.1	Ca_kabuli_chr04	12481076	AA	GG	1946792285
SNP_P4_41682_12481099	NC_021163.1	Ca_kabuli_chr04	12481099	AA	GG	1946792287
SNP_P4_41683_12481118	NC_021163.1	Ca_kabuli_chr04	12481118	TT	CC	1946792289
SNP_P4_41684_12481176	NC_021163.1	Ca_kabuli_chr04	12481176	TT	CC	1946792291
SNP_P4_41685_12481197	NC_021163.1	Ca_kabuli_chr04	12481197	CC	TT	1946792293
SNP_P4_41686_12481455	NC_021163.1	Ca_kabuli_chr04	12481455	TT	CC	1946792295
SNP_P4_41687_12481469	NC_021163.1	Ca_kabuli_chr04	12481469	GG	TT	1946792297
SNP_P4_41688_12481756	NC_021163.1	Ca_kabuli_chr04	12481756	TT	CC	1946792299
SNP_P4_41689_12481762	NC_021163.1	Ca_kabuli_chr04	12481762	AA	TT	1946792301
SNP_P4_41690_12482093	NC_021163.1	Ca_kabuli_chr04	12482093	GG	AA	1946792303
SNP_P4_41691_12482107	NC_021163.1	Ca_kabuli_chr04	12482107	CC	TT	1946792305
SNP_P4_41692_12483107	NC_021163.1	Ca_kabuli_chr04	12483107	AA	GG	1946792307
SNP_P4_41694_12483734	NC_021163.1	Ca_kabuli_chr04	12483734	AA	GG	1946792310
SNP_P4_41695_12483794	NC_021163.1	Ca_kabuli_chr04	12483794	GG	AA	1946792312
SNP_P4_41696_12483907	NC_021163.1	Ca_kabuli_chr04	12483907	AA	TT	1946792314
SNP_P4_41697_12484160	NC_021163.1	Ca_kabuli_chr04	12484160	CC	TT	1946792316
SNP_P4_41698_12485523	NC_021163.1	Ca_kabuli_chr04	12485523	TT	GG	1946792318
SNP_P4_41699_12485577	NC_021163.1	Ca_kabuli_chr04	12485577	CC	AA	1946792320
SNP_P4_41700_12485612	NC_021163.1	Ca_kabuli_chr04	12485612	TT	AA	1946792322

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_41702_12488209	NC_021163.1	Ca_kabuli_chr04	12488209	AA	TT	1946792326
SNP_P4_41703_12489473	NC_021163.1	Ca_kabuli_chr04	12489473	TT	CC	1946792328
SNP_P4_41704_12489765	NC_021163.1	Ca_kabuli_chr04	12489765	AA	GG	1946792330
SNP_P4_41705_12489785	NC_021163.1	Ca_kabuli_chr04	12489785	AA	TT	1946792332
SNP_P4_41706_12489951	NC_021163.1	Ca_kabuli_chr04	12489951	AA	TT	1946792334
SNP_P4_41707_12491870	NC_021163.1	Ca_kabuli_chr04	12491870	AA	GG	1946792336
SNP_P4_41708_12493643	NC_021163.1	Ca_kabuli_chr04	12493643	AA	GG	1946792338
SNP_P4_41710_12493665	NC_021163.1	Ca_kabuli_chr04	12493665	AA	GG	1946792340
SNP_P4_41711_12493668	NC_021163.1	Ca_kabuli_chr04	12493668	CC	TT	1946792342
SNP_P4_41712_12497488	NC_021163.1	Ca_kabuli_chr04	12497488	AA	GG	1946792344
SNP_P4_41713_12497577	NC_021163.1	Ca_kabuli_chr04	12497577	CC	GG	1946792346
SNP_P4_41714_12497631	NC_021163.1	Ca_kabuli_chr04	12497631	CC	GG	1946792348
SNP_P4_41715_12497635	NC_021163.1	Ca_kabuli_chr04	12497635	TT	GG	1946792350
SNP_P4_41716_12498048	NC_021163.1	Ca_kabuli_chr04	12498048	AA	GG	1946792352
SNP_P4_41717_12498106	NC_021163.1	Ca_kabuli_chr04	12498106	AA	GG	1946792354
SNP_P4_41718_12498559	NC_021163.1	Ca_kabuli_chr04	12498559	CC	TT	1946792356
SNP_P4_41719_12498589	NC_021163.1	Ca_kabuli_chr04	12498589	AA	TT	1946792358
SNP_P4_41721_12499010	NC_021163.1	Ca_kabuli_chr04	12499010	TT	AA	1946792360
SNP_P4_41722_12499892	NC_021163.1	Ca_kabuli_chr04	12499892	CC	TT	1946792362
SNP_P4_41723_12501227	NC_021163.1	Ca_kabuli_chr04	12501227	CC	GG	1946792364
SNP_P4_41724_12501232	NC_021163.1	Ca_kabuli_chr04	12501232	CC	TT	1946792366
SNP_P4_41725_12503632	NC_021163.1	Ca_kabuli_chr04	12503632	GG	AA	1946792368
SNP_P4_41726_12503649	NC_021163.1	Ca_kabuli_chr04	12503649	GG	TT	1946792370
SNP_P4_41727_12504111	NC_021163.1	Ca_kabuli_chr04	12504111	AA	TT	1946792372
SNP_P4_41728_12504644	NC_021163.1	Ca_kabuli_chr04	12504644	GG	AA	1946792375
SNP_P4_41730_12505912	NC_021163.1	Ca_kabuli_chr04	12505912	AA	TT	1946792377
SNP_P4_41731_12507364	NC_021163.1	Ca_kabuli_chr04	12507364	TT	AA	1946792379
SNP_P4_41732_12507374	NC_021163.1	Ca_kabuli_chr04	12507374	CC	GG	1946792381
SNP_P4_41733_12507678	NC_021163.1	Ca_kabuli_chr04	12507678	GG	AA	1946792383
SNP_P4_41734_12507685	NC_021163.1	Ca_kabuli_chr04	12507685	CC	TT	1946792385
SNP_P4_41735_12507686	NC_021163.1	Ca_kabuli_chr04	12507686	GG	AA	1946792387
SNP_P4_41736_12507701	NC_021163.1	Ca_kabuli_chr04	12507701	TT	CC	1946792389
SNP_P4_41738_12508123	NC_021163.1	Ca_kabuli_chr04	12508123	CC	AA	1946792391
SNP_P4_41739_12508592	NC_021163.1	Ca_kabuli_chr04	12508592	AA	TT	1946792393
SNP_P4_41740_12508595	NC_021163.1	Ca_kabuli_chr04	12508595	GG	AA	1946792395
SNP_P4_41741_12508603	NC_021163.1	Ca_kabuli_chr04	12508603	TT	CC	1946792397
SNP_P4_41742_12508649	NC_021163.1	Ca_kabuli_chr04	12508649	TT	CC	1946792399
SNP_P4_41743_12508651	NC_021163.1	Ca_kabuli_chr04	12508651	AA	GG	1946792401
SNP_P4_41744_12508657	NC_021163.1	Ca_kabuli_chr04	12508657	GG	AA	1946792403
SNP_P4_41745_12508669	NC_021163.1	Ca_kabuli_chr04	12508669	TT	CC	1946792405
SNP_P4_41746_12508671	NC_021163.1	Ca_kabuli_chr04	12508671	AA	TT	1946792408

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_41748_12510397	NC_021163.1	Ca_kabuli_chr04	12510397	AA	GG	1946792412
SNP_P4_41749_12510417	NC_021163.1	Ca_kabuli_chr04	12510417	CC	TT	1946792414
SNP_P4_41750_12510423	NC_021163.1	Ca_kabuli_chr04	12510423	AA	TT	1946792416
SNP_P4_41751_12510425	NC_021163.1	Ca_kabuli_chr04	12510425	CC	TT	1946792418
SNP_P4_41752_12511128	NC_021163.1	Ca_kabuli_chr04	12511128	TT	CC	1946792420
SNP_P4_41753_12511131	NC_021163.1	Ca_kabuli_chr04	12511131	GG	AA	1946792422
SNP_P4_41754_12511328	NC_021163.1	Ca_kabuli_chr04	12511328	AA	TT	1946792424
SNP_P4_41755_12511330	NC_021163.1	Ca_kabuli_chr04	12511330	TT	AA	1946792426
SNP_P4_41756_12511411	NC_021163.1	Ca_kabuli_chr04	12511411	TT	CC	1946792428
SNP_P4_41757_12511435	NC_021163.1	Ca_kabuli_chr04	12511435	TT	AA	1946792430
SNP_P4_41758_12511441	NC_021163.1	Ca_kabuli_chr04	12511441	AA	TT	1946792432
SNP_P4_41759_12512074	NC_021163.1	Ca_kabuli_chr04	12512074	TT	CC	1946792434
SNP_P4_41760_12512174	NC_021163.1	Ca_kabuli_chr04	12512174	AA	CC	1946792436
SNP_P4_41761_12512187	NC_021163.1	Ca_kabuli_chr04	12512187	CC	TT	1946792438
SNP_P4_41762_12512409	NC_021163.1	Ca_kabuli_chr04	12512409	AA	GG	1946792440
SNP_P4_41763_12517945	NC_021163.1	Ca_kabuli_chr04	12517945	AA	CC	1946792442
SNP_P4_41764_12517957	NC_021163.1	Ca_kabuli_chr04	12517957	GG	CC	1946792444
SNP_P4_41765_12518340	NC_021163.1	Ca_kabuli_chr04	12518340	AA	GG	1946792446
SNP_P4_41766_12518363	NC_021163.1	Ca_kabuli_chr04	12518363	GG	TT	1946792448
SNP_P4_41767_12520282	NC_021163.1	Ca_kabuli_chr04	12520282	TT	AA	1946792451
SNP_P4_41769_12520637	NC_021163.1	Ca_kabuli_chr04	12520637	GG	AA	1946792453
SNP_P4_41771_12522804	NC_021163.1	Ca_kabuli_chr04	12522804	GG	AA	1946792455
SNP_P4_41772_12522824	NC_021163.1	Ca_kabuli_chr04	12522824	CC	GG	1946792457
SNP_P4_41774_12522885	NC_021163.1	Ca_kabuli_chr04	12522885	CC	TT	1946792459
SNP_P4_41775_12522933	NC_021163.1	Ca_kabuli_chr04	12522933	TT	CC	1946792461
SNP_P4_41776_12523173	NC_021163.1	Ca_kabuli_chr04	12523173	TT	AA	1946792463
SNP_P4_41777_12523236	NC_021163.1	Ca_kabuli_chr04	12523236	CC	TT	1946792465
SNP_P4_41778_12523238	NC_021163.1	Ca_kabuli_chr04	12523238	CC	TT	1946792467
SNP_P4_41779_12523242	NC_021163.1	Ca_kabuli_chr04	12523242	GG	TT	1946792469
SNP_P4_41781_12523443	NC_021163.1	Ca_kabuli_chr04	12523443	TT	AA	1946792472
SNP_P4_41782_12523456	NC_021163.1	Ca_kabuli_chr04	12523456	AA	GG	1946792474
SNP_P4_41783_12523474	NC_021163.1	Ca_kabuli_chr04	12523474	GG	TT	1946792476
SNP_P4_41784_12523537	NC_021163.1	Ca_kabuli_chr04	12523537	GG	AA	1946792478
SNP_P4_41785_12523543	NC_021163.1	Ca_kabuli_chr04	12523543	CC	TT	1946792480
SNP_P4_41787_12524032	NC_021163.1	Ca_kabuli_chr04	12524032	TT	AA	1946792482
SNP_P4_41788_12524359	NC_021163.1	Ca_kabuli_chr04	12524359	AA	TT	1946792485
SNP_P4_41789_12524937	NC_021163.1	Ca_kabuli_chr04	12524937	TT	CC	1946792487
SNP_P4_41790_12524973	NC_021163.1	Ca_kabuli_chr04	12524973	GG	TT	1946792489
SNP_P4_41791_12524994	NC_021163.1	Ca_kabuli_chr04	12524994	AA	TT	1946792491
SNP_P4_41792_12525209	NC_021163.1	Ca_kabuli_chr04	12525209	AA	GG	1946792493
SNP_P4_41793_12525222	NC_021163.1	Ca_kabuli_chr04	12525222	TT	CC	1946792495

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_41796_12525379	NC_021163.1	Ca_kabuli_chr04	12525379	AA	CC	1946792501
SNP_P4_41797_12526023	NC_021163.1	Ca_kabuli_chr04	12526023	GG	TT	1946792503
SNP_P4_41798_12527166	NC_021163.1	Ca_kabuli_chr04	12527166	CC	GG	1946792505
SNP_P4_41799_12528154	NC_021163.1	Ca_kabuli_chr04	12528154	GG	AA	1946792507
SNP_P4_41801_12528782	NC_021163.1	Ca_kabuli_chr04	12528782	AA	CC	1946792509
SNP_P4_41803_12528823	NC_021163.1	Ca_kabuli_chr04	12528823	AA	TT	1946792511
SNP_P4_41804_12528853	NC_021163.1	Ca_kabuli_chr04	12528853	AA	GG	1946792513
SNP_P4_41805_12528940	NC_021163.1	Ca_kabuli_chr04	12528940	TT	CC	1946792514
SNP_P4_41807_12529122	NC_021163.1	Ca_kabuli_chr04	12529122	TT	CC	1946792515
SNP_P4_41809_12529509	NC_021163.1	Ca_kabuli_chr04	12529509	AA	GG	1946792516
SNP_P4_41810_12529666	NC_021163.1	Ca_kabuli_chr04	12529666	GG	TT	1946792517
SNP_P4_41811_12529975	NC_021163.1	Ca_kabuli_chr04	12529975	GG	AA	1946792518
SNP_P4_41812_12530084	NC_021163.1	Ca_kabuli_chr04	12530084	GG	AA	1946792520
SNP_P4_41813_12530287	NC_021163.1	Ca_kabuli_chr04	12530287	TT	CC	1946792522
SNP_P4_41815_12535274	NC_021163.1	Ca_kabuli_chr04	12535274	GG	CC	1946792524
SNP_P4_41816_12535281	NC_021163.1	Ca_kabuli_chr04	12535281	TT	AA	1946792526
SNP_P4_41817_12537490	NC_021163.1	Ca_kabuli_chr04	12537490	TT	CC	1946792528
SNP_P4_41818_12537504	NC_021163.1	Ca_kabuli_chr04	12537504	GG	AA	1946792530
SNP_P4_41819_12537515	NC_021163.1	Ca_kabuli_chr04	12537515	AA	GG	1946792532
SNP_P4_41820_12537583	NC_021163.1	Ca_kabuli_chr04	12537583	TT	CC	1946792534
SNP_P4_41821_12539218	NC_021163.1	Ca_kabuli_chr04	12539218	TT	CC	1946792536
SNP_P4_41822_12539512	NC_021163.1	Ca_kabuli_chr04	12539512	TT	CC	1946792539
SNP_P4_41823_12540192	NC_021163.1	Ca_kabuli_chr04	12540192	AA	GG	1946792541
SNP_P4_41824_12540234	NC_021163.1	Ca_kabuli_chr04	12540234	TT	AA	1946792543
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SNP_P4_41826_12541887	NC_021163.1	Ca_kabuli_chr04	12541887	AA	GG	1946792546
SNP_P4_41827_12542320	NC_021163.1	Ca_kabuli_chr04	12542320	CC	AA	1946792548
SNP_P4_41828_12542364	NC_021163.1	Ca_kabuli_chr04	12542364	GG	AA	1946792550
SNP_P4_41829_12542529	NC_021163.1	Ca_kabuli_chr04	12542529	TT	CC	1946792552
SNP_P4_41830_12546353	NC_021163.1	Ca_kabuli_chr04	12546353	AA	CC	1946792554
SNP_P4_41831_12546396	NC_021163.1	Ca_kabuli_chr04	12546396	AA	TT	1946792556
SNP_P4_41832_12547625	NC_021163.1	Ca_kabuli_chr04	12547625	GG	AA	1946792558
SNP_P4_41833_12547638	NC_021163.1	Ca_kabuli_chr04	12547638	AA	TT	1946792560
SNP_P4_41834_12547673	NC_021163.1	Ca_kabuli_chr04	12547673	AA	GG	1946792563
SNP_P4_41835_12547847	NC_021163.1	Ca_kabuli_chr04	12547847	CC	TT	1946792565
SNP_P4_41836_12549071	NC_021163.1	Ca_kabuli_chr04	12549071	AA	GG	1946792567
SNP_P4_41837_12550849	NC_021163.1	Ca_kabuli_chr04	12550849	TT	CC	1946792569
SNP_P4_41838_12550882	NC_021163.1	Ca_kabuli_chr04	12550882	AA	CC	1946792571
SNP_P4_41839_12550942	NC_021163.1	Ca_kabuli_chr04	12550942	CC	TT	1946792573
SNP_P4_41840_12551202	NC_021163.1	Ca_kabuli_chr04	12551202	GG	AA	1946792575

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_41843_12552041	NC_021163.1	Ca_kabuli_chr04	12552041	AA	GG	1946792581
SNP_P4_41844_12552186	NC_021163.1	Ca_kabuli_chr04	12552186	CC	TT	1946792583
SNP_P4_41845_12552295	NC_021163.1	Ca_kabuli_chr04	12552295	TT	CC	1946792585
SNP_P4_41846_12552322	NC_021163.1	Ca_kabuli_chr04	12552322	CC	AA	1946792587
SNP_P4_41847_12552349	NC_021163.1	Ca_kabuli_chr04	12552349	TT	CC	1946792589
SNP_P4_41848_12552921	NC_021163.1	Ca_kabuli_chr04	12552921	AA	CC	1946792591
SNP_P4_41849_12554341	NC_021163.1	Ca_kabuli_chr04	12554341	CC	TT	1946792593
SNP_P4_41851_12555232	NC_021163.1	Ca_kabuli_chr04	12555232	CC	GG	1946792595
SNP_P4_41852_12555279	NC_021163.1	Ca_kabuli_chr04	12555279	GG	CC	1946792597
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SNP_P4_41854_12556605	NC_021163.1	Ca_kabuli_chr04	12556605	TT	CC	1946792602
SNP_P4_41855_12558541	NC_021163.1	Ca_kabuli_chr04	12558541	TT	CC	1946792604
SNP_P4_41857_12561902	NC_021163.1	Ca_kabuli_chr04	12561902	CC	TT	1946792606
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SNP_P4_41859_12562268	NC_021163.1	Ca_kabuli_chr04	12562268	TT	GG	1946792610
SNP_P4_41860_12562576	NC_021163.1	Ca_kabuli_chr04	12562576	AA	GG	1946792612
SNP_P4_41861_12562595	NC_021163.1	Ca_kabuli_chr04	12562595	AA	GG	1946792614
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SNP_P4_41865_12562816	NC_021163.1	Ca_kabuli_chr04	12562816	GG	AA	1946792622
SNP_P4_41866_12562870	NC_021163.1	Ca_kabuli_chr04	12562870	AA	CC	1946792624
SNP_P4_41867_12562912	NC_021163.1	Ca_kabuli_chr04	12562912	CC	TT	1946792626
SNP_P4_41868_12562914	NC_021163.1	Ca_kabuli_chr04	12562914	GG	AA	1946792628
SNP_P4_41869_12562924	NC_021163.1	Ca_kabuli_chr04	12562924	AA	GG	1946792630
SNP_P4_41870_12563005	NC_021163.1	Ca_kabuli_chr04	12563005	TT	CC	1946792633
SNP_P4_41871_12563008	NC_021163.1	Ca_kabuli_chr04	12563008	TT	CC	1946792635
SNP_P4_41872_12563027	NC_021163.1	Ca_kabuli_chr04	12563027	TT	CC	1946792637
SNP_P4_41873_12563092	NC_021163.1	Ca_kabuli_chr04	12563092	GG	AA	1946792639
SNP_P4_41874_12563110	NC_021163.1	Ca_kabuli_chr04	12563110	GG	AA	1946792641
SNP_P4_41875_12563188	NC_021163.1	Ca_kabuli_chr04	12563188	GG	TT	1946792643
SNP_P4_41876_12563196	NC_021163.1	Ca_kabuli_chr04	12563196	GG	AA	1946792645
SNP_P4_41877_12563287	NC_021163.1	Ca_kabuli_chr04	12563287	TT	CC	1946792647
SNP_P4_41878_12563442	NC_021163.1	Ca_kabuli_chr04	12563442	GG	AA	1946792649
SNP_P4_41879_12563598	NC_021163.1	Ca_kabuli_chr04	12563598	CC	TT	1946792653
SNP_P4_41880_12563670	NC_021163.1	Ca_kabuli_chr04	12563670	GG	TT	1946792655
SNP_P4_41881_12563697	NC_021163.1	Ca_kabuli_chr04	12563697	GG	AA	1946792658
SNP_P4_41882_12563743	NC_021163.1	Ca_kabuli_chr04	12563743	CC	AA	1946792660
SNP_P4_41883_12563754	NC_021163.1	Ca_kabuli_chr04	12563754	AA	GG	1946792662
SNP_P4_41885_12563950	NC_021163.1	Ca_kabuli_chr04	12563950	AA	GG	1946792664

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_41886_12563954	NC_021163.1	Ca_kabuli_chr04	12563954	CC	TT	1946792666
SNP_P4_41887_12563967	NC_021163.1	Ca_kabuli_chr04	12563967	GG	AA	1946792669
SNP_P4_41888_12564015	NC_021163.1	Ca_kabuli_chr04	12564015	TT	CC	1946792671
SNP_P4_41889_12564034	NC_021163.1	Ca_kabuli_chr04	12564034	TT	AA	1946792673
SNP_P4_41890_12564036	NC_021163.1	Ca_kabuli_chr04	12564036	AA	CC	1946792675
SNP_P4_41891_12564125	NC_021163.1	Ca_kabuli_chr04	12564125	CC	GG	1946792677
SNP_P4_41892_12564160	NC_021163.1	Ca_kabuli_chr04	12564160	CC	TT	1946792679
SNP_P4_41893_12564434	NC_021163.1	Ca_kabuli_chr04	12564434	GG	TT	1946792682
SNP_P4_41894_12565210	NC_021163.1	Ca_kabuli_chr04	12565210	CC	TT	1946792684
SNP_P4_41895_12565521	NC_021163.1	Ca_kabuli_chr04	12565521	CC	AA	1946792686
SNP_P4_41896_12565567	NC_021163.1	Ca_kabuli_chr04	12565567	CC	AA	1946792688
SNP_P4_41897_12565581	NC_021163.1	Ca_kabuli_chr04	12565581	AA	TT	1946792690
SNP_P4_41898_12566080	NC_021163.1	Ca_kabuli_chr04	12566080	GG	AA	1946792692
SNP_P4_41899_12566148	NC_021163.1	Ca_kabuli_chr04	12566148	GG	AA	1946792694
SNP_P4_41900_12566150	NC_021163.1	Ca_kabuli_chr04	12566150	CC	TT	1946792696
SNP_P4_41901_12566151	NC_021163.1	Ca_kabuli_chr04	12566151	TT	CC	1946792698
SNP_P4_41902_12566192	NC_021163.1	Ca_kabuli_chr04	12566192	TT	CC	1946792700
SNP_P4_41903_12566195	NC_021163.1	Ca_kabuli_chr04	12566195	AA	GG	1946792703
SNP_P4_41904_12566196	NC_021163.1	Ca_kabuli_chr04	12566196	TT	CC	1946792705
SNP_P4_41906_12566319	NC_021163.1	Ca_kabuli_chr04	12566319	TT	CC	1946792707
SNP_P4_41907_12566324	NC_021163.1	Ca_kabuli_chr04	12566324	CC	AA	1946792709
SNP_P4_41908_12566325	NC_021163.1	Ca_kabuli_chr04	12566325	GG	TT	1946792711
SNP_P4_41909_12566413	NC_021163.1	Ca_kabuli_chr04	12566413	CC	TT	1946792713
SNP_P4_41911_12566596	NC_021163.1	Ca_kabuli_chr04	12566596	AA	GG	1946792715
SNP_P4_41913_12566685	NC_021163.1	Ca_kabuli_chr04	12566685	AA	TT	1946792718
SNP_P4_41914_12566762	NC_021163.1	Ca_kabuli_chr04	12566762	TT	GG	1946792720
SNP_P4_41915_12566786	NC_021163.1	Ca_kabuli_chr04	12566786	GG	AA	1946792722
SNP_P4_41916_12566801	NC_021163.1	Ca_kabuli_chr04	12566801	GG	AA	1946792724
SNP_P4_41917_12566840	NC_021163.1	Ca_kabuli_chr04	12566840	GG	AA	1946792726
SNP_P4_41918_12566875	NC_021163.1	Ca_kabuli_chr04	12566875	AA	CC	1946792728
SNP_P4_41919_12566896	NC_021163.1	Ca_kabuli_chr04	12566896	TT	CC	1946792730
SNP_P4_41920_12566922	NC_021163.1	Ca_kabuli_chr04	12566922	AA	GG	1946792732
SNP_P4_41921_12567407	NC_021163.1	Ca_kabuli_chr04	12567407	CC	GG	1946792734
SNP_P4_41922_12567597	NC_021163.1	Ca_kabuli_chr04	12567597	AA	CC	1946792736
SNP_P4_41923_12567909	NC_021163.1	Ca_kabuli_chr04	12567909	GG	AA	1946792738
SNP_P4_41924_12567915	NC_021163.1	Ca_kabuli_chr04	12567915	CC	TT	1946792740
SNP_P4_41926_12570415	NC_021163.1	Ca_kabuli_chr04	12570415	GG	TT	1946792743
SNP_P4_41927_12570488	NC_021163.1	Ca_kabuli_chr04	12570488	TT	AA	1946792745
SNP_P4_41928_12570491	NC_021163.1	Ca_kabuli_chr04	12570491	CC	TT	1946792747
SNP_P4_41929_12570705	NC_021163.1	Ca_kabuli_chr04	12570705	CC	TT	1946792749
SNP_P4_41930_12570762	NC_021163.1	Ca_kabuli_chr04	12570762	GG	AA	1946792751
SNP_P4_41932_12571366	NC_021163.1	Ca_kabuli_chr04	12571366	GG	AA	1946792754

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_41934_12571754	NC_021163.1	Ca_kabuli_chr04	12571754	AA	GG	1946792758
SNP_P4_41936_12571866	NC_021163.1	Ca_kabuli_chr04	12571866	TT	AA	1946792760
SNP_P4_41938_12572289	NC_021163.1	Ca_kabuli_chr04	12572289	AA	GG	1946792762
SNP_P4_41939_12572696	NC_021163.1	Ca_kabuli_chr04	12572696	AA	GG	1946792764
SNP_P4_41940_12572704	NC_021163.1	Ca_kabuli_chr04	12572704	TT	CC	1946792766
SNP_P4_41941_12572771	NC_021163.1	Ca_kabuli_chr04	12572771	TT	GG	1946792769
SNP_P4_41942_12572772	NC_021163.1	Ca_kabuli_chr04	12572772	GG	AA	1946792771
SNP_P4_41943_12572822	NC_021163.1	Ca_kabuli_chr04	12572822	TT	CC	1946792773
SNP_P4_41944_12573046	NC_021163.1	Ca_kabuli_chr04	12573046	AA	GG	1946792775
SNP_P4_41945_12573048	NC_021163.1	Ca_kabuli_chr04	12573048	GG	AA	1946792777
SNP_P4_41946_12573142	NC_021163.1	Ca_kabuli_chr04	12573142	TT	CC	1946792779
SNP_P4_41947_12573172	NC_021163.1	Ca_kabuli_chr04	12573172	CC	TT	1946792781
SNP_P4_41948_12573193	NC_021163.1	Ca_kabuli_chr04	12573193	TT	GG	1946792783
SNP_P4_41949_12573804	NC_021163.1	Ca_kabuli_chr04	12573804	AA	TT	1946792785
SNP_P4_41950_12574735	NC_021163.1	Ca_kabuli_chr04	12574735	CC	TT	1946792787
SNP_P4_41951_12574753	NC_021163.1	Ca_kabuli_chr04	12574753	TT	AA	1946792789
SNP_P4_41952_12575100	NC_021163.1	Ca_kabuli_chr04	12575100	GG	TT	1946792791
SNP_P4_41953_12575922	NC_021163.1	Ca_kabuli_chr04	12575922	CC	TT	1946792793
SNP_P4_41954_12576520	NC_021163.1	Ca_kabuli_chr04	12576520	TT	CC	1946792795
SNP_P4_41955_12576536	NC_021163.1	Ca_kabuli_chr04	12576536	AA	GG	1946792797
SNP_P4_41956_12576696	NC_021163.1	Ca_kabuli_chr04	12576696	AA	CC	1946792799
SNP_P4_41957_12576712	NC_021163.1	Ca_kabuli_chr04	12576712	AA	TT	1946792802
SNP_P4_41958_12577258	NC_021163.1	Ca_kabuli_chr04	12577258	GG	CC	1946792804
SNP_P4_41961_12577739	NC_021163.1	Ca_kabuli_chr04	12577739	GG	CC	1946792806
SNP_P4_41962_12577773	NC_021163.1	Ca_kabuli_chr04	12577773	TT	AA	1946792808
SNP_P4_41963_12577800	NC_021163.1	Ca_kabuli_chr04	12577800	TT	AA	1946792810
SNP_P4_41964_12578928	NC_021163.1	Ca_kabuli_chr04	12578928	CC	AA	1946792812
SNP_P4_41965_12579521	NC_021163.1	Ca_kabuli_chr04	12579521	AA	GG	1946792814
SNP_P4_41966_12579528	NC_021163.1	Ca_kabuli_chr04	12579528	CC	AA	1946792816
SNP_P4_41968_12582119	NC_021163.1	Ca_kabuli_chr04	12582119	AA	GG	1946792818
SNP_P4_41969_12582394	NC_021163.1	Ca_kabuli_chr04	12582394	GG	AA	1946792820
SNP_P4_41970_12582418	NC_021163.1	Ca_kabuli_chr04	12582418	AA	GG	1946792822
SNP_P4_41971_12582804	NC_021163.1	Ca_kabuli_chr04	12582804	GG	AA	1946792824
SNP_P4_41972_12582935	NC_021163.1	Ca_kabuli_chr04	12582935	GG	AA	1946792826
SNP_P4_41974_12583345	NC_021163.1	Ca_kabuli_chr04	12583345	AA	CC	1946792828
SNP_P4_41975_12583349	NC_021163.1	Ca_kabuli_chr04	12583349	AA	TT	1946792830
SNP_P4_41976_12583366	NC_021163.1	Ca_kabuli_chr04	12583366	CC	TT	1946792832
SNP_P4_41978_12583937	NC_021163.1	Ca_kabuli_chr04	12583937	AA	GG	1946792834
SNP_P4_41979_12584002	NC_021163.1	Ca_kabuli_chr04	12584002	TT	GG	1946792836
SNP_P4_41980_12584262	NC_021163.1	Ca_kabuli_chr04	12584262	GG	AA	1946792838
SNP_P4_41981_12584270	NC_021163.1	Ca_kabuli_chr04	12584270	GG	AA	1946792840

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_41983_12584943	NC_021163.1	Ca_kabuli_chr04	12584943	CC	TT	1946792844
SNP_P4_41984_12585470	NC_021163.1	Ca_kabuli_chr04	12585470	GG	AA	1946792846
SNP_P4_41985_12585490	NC_021163.1	Ca_kabuli_chr04	12585490	GG	AA	1946792848
SNP_P4_41986_12585496	NC_021163.1	Ca_kabuli_chr04	12585496	TT	CC	1946792850
SNP_P4_41987_12585762	NC_021163.1	Ca_kabuli_chr04	12585762	TT	CC	1946792852
SNP_P4_41988_12585800	NC_021163.1	Ca_kabuli_chr04	12585800	AA	GG	1946792854
SNP_P4_41989_12586014	NC_021163.1	Ca_kabuli_chr04	12586014	GG	AA	1946792856
SNP_P4_41990_12586034	NC_021163.1	Ca_kabuli_chr04	12586034	CC	GG	1946792858
SNP_P4_41991_12586335	NC_021163.1	Ca_kabuli_chr04	12586335	CC	TT	1946792860
SNP_P4_41992_12586357	NC_021163.1	Ca_kabuli_chr04	12586357	TT	CC	1946792862
SNP_P4_41993_12586410	NC_021163.1	Ca_kabuli_chr04	12586410	GG	AA	1946792864
SNP_P4_41994_12586446	NC_021163.1	Ca_kabuli_chr04	12586446	CC	TT	1946792867
SNP_P4_41995_12586645	NC_021163.1	Ca_kabuli_chr04	12586645	AA	CC	1946792869
SNP_P4_41996_12586689	NC_021163.1	Ca_kabuli_chr04	12586689	TT	CC	1946792871
SNP_P4_41997_12586696	NC_021163.1	Ca_kabuli_chr04	12586696	AA	GG	1946792873
SNP_P4_41998_12586712	NC_021163.1	Ca_kabuli_chr04	12586712	CC	TT	1946792875
SNP_P4_41999_12586730	NC_021163.1	Ca_kabuli_chr04	12586730	CC	TT	1946792877
SNP_P4_42000_12586745	NC_021163.1	Ca_kabuli_chr04	12586745	GG	AA	1946792879
SNP_P4_42001_12586746	NC_021163.1	Ca_kabuli_chr04	12586746	GG	AA	1946792881
SNP_P4_42002_12586768	NC_021163.1	Ca_kabuli_chr04	12586768	CC	TT	1946792883
SNP_P4_42004_12586868	NC_021163.1	Ca_kabuli_chr04	12586868	TT	CC	1946792885
SNP_P4_42005_12586888	NC_021163.1	Ca_kabuli_chr04	12586888	AA	CC	1946792887
SNP_P4_42008_12589390	NC_021163.1	Ca_kabuli_chr04	12589390	CC	TT	1946792890
SNP_P4_42009_12589402	NC_021163.1	Ca_kabuli_chr04	12589402	GG	AA	1946792892
SNP_P4_42010_12591054	NC_021163.1	Ca_kabuli_chr04	12591054	GG	CC	1946792894
SNP_P4_42011_12591173	NC_021163.1	Ca_kabuli_chr04	12591173	TT	GG	1946792896
SNP_P4_42012_12591240	NC_021163.1	Ca_kabuli_chr04	12591240	AA	GG	1946792898
SNP_P4_42013_12591403	NC_021163.1	Ca_kabuli_chr04	12591403	TT	AA	1946792900
SNP_P4_42014_12591449	NC_021163.1	Ca_kabuli_chr04	12591449	GG	TT	1946792902
SNP_P4_42015_12591708	NC_021163.1	Ca_kabuli_chr04	12591708	AA	GG	1946792904
SNP_P4_42016_12591725	NC_021163.1	Ca_kabuli_chr04	12591725	GG	AA	1946792905
SNP_P4_42017_12591742	NC_021163.1	Ca_kabuli_chr04	12591742	AA	TT	1946792906
SNP_P4_42018_12591749	NC_021163.1	Ca_kabuli_chr04	12591749	GG	TT	1946792907
SNP_P4_42019_12591753	NC_021163.1	Ca_kabuli_chr04	12591753	GG	CC	1946792908
SNP_P4_42020_12591897	NC_021163.1	Ca_kabuli_chr04	12591897	AA	GG	1946792910
SNP_P4_42021_12591938	NC_021163.1	Ca_kabuli_chr04	12591938	AA	TT	1946792912
SNP_P4_42023_12592493	NC_021163.1	Ca_kabuli_chr04	12592493	GG	AA	1946792914
SNP_P4_42024_12592697	NC_021163.1	Ca_kabuli_chr04	12592697	CC	AA	1946792916
SNP_P4_42025_12592698	NC_021163.1	Ca_kabuli_chr04	12592698	AA	TT	1946792918
SNP_P4_42026_12592973	NC_021163.1	Ca_kabuli_chr04	12592973	CC	AA	1946792920
SNP_P4_42027_12593112	NC_021163.1	Ca_kabuli_chr04	12593112	TT	CC	1946792922

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_42029_12593359	NC_021163.1	Ca_kabuli_chr04	12593359	AA	GG	1946792926
SNP_P4_42030_12594754	NC_021163.1	Ca_kabuli_chr04	12594754	AA	TT	1946792928
SNP_P4_42032_12595360	NC_021163.1	Ca_kabuli_chr04	12595360	TT	AA	1946792929
SNP_P4_42033_12595607	NC_021163.1	Ca_kabuli_chr04	12595607	AA	TT	1946792931
SNP_P4_42034_12595608	NC_021163.1	Ca_kabuli_chr04	12595608	AA	GG	1946792933
SNP_P4_42035_12595665	NC_021163.1	Ca_kabuli_chr04	12595665	AA	GG	1946792935
SNP_P4_42037_12597123	NC_021163.1	Ca_kabuli_chr04	12597123	GG	AA	1946792938
SNP_P4_42038_12597438	NC_021163.1	Ca_kabuli_chr04	12597438	CC	TT	1946792940
SNP_P4_42039_12597718	NC_021163.1	Ca_kabuli_chr04	12597718	TT	AA	1946792942
SNP_P4_42040_12599315	NC_021163.1	Ca_kabuli_chr04	12599315	GG	AA	1946792944
SNP_P4_42041_12599321	NC_021163.1	Ca_kabuli_chr04	12599321	TT	CC	1946792946
SNP_P4_42042_12599342	NC_021163.1	Ca_kabuli_chr04	12599342	GG	AA	1946792948
SNP_P4_42043_12599350	NC_021163.1	Ca_kabuli_chr04	12599350	GG	AA	1946792950
SNP_P4_42044_12599351	NC_021163.1	Ca_kabuli_chr04	12599351	AA	CC	1946792952
SNP_P4_42045_12600922	NC_021163.1	Ca_kabuli_chr04	12600922	TT	CC	1946792954
SNP_P4_42046_12601148	NC_021163.1	Ca_kabuli_chr04	12601148	CC	AA	1946792956
SNP_P4_42047_12601222	NC_021163.1	Ca_kabuli_chr04	12601222	CC	TT	1946792958
SNP_P4_42048_12601567	NC_021163.1	Ca_kabuli_chr04	12601567	TT	GG	1946792960
SNP_P4_42049_12601984	NC_021163.1	Ca_kabuli_chr04	12601984	AA	TT	1946792962
SNP_P4_42050_12602015	NC_021163.1	Ca_kabuli_chr04	12602015	AA	GG	1946792964
SNP_P4_42051_12602216	NC_021163.1	Ca_kabuli_chr04	12602216	AA	GG	1946792966
SNP_P4_42052_12602321	NC_021163.1	Ca_kabuli_chr04	12602321	CC	TT	1946792968
SNP_P4_42053_12602360	NC_021163.1	Ca_kabuli_chr04	12602360	TT	AA	1946792970
SNP_P4_42054_12602613	NC_021163.1	Ca_kabuli_chr04	12602613	GG	AA	1946792972
SNP_P4_42055_12602651	NC_021163.1	Ca_kabuli_chr04	12602651	CC	TT	1946792974
SNP_P4_42056_12602657	NC_021163.1	Ca_kabuli_chr04	12602657	CC	TT	1946792976
SNP_P4_42057_12602689	NC_021163.1	Ca_kabuli_chr04	12602689	TT	CC	1946792978
SNP_P4_42058_12603606	NC_021163.1	Ca_kabuli_chr04	12603606	CC	GG	1946792980
SNP_P4_42060_12604563	NC_021163.1	Ca_kabuli_chr04	12604563	AA	GG	1946792982
SNP_P4_42061_12604564	NC_021163.1	Ca_kabuli_chr04	12604564	TT	GG	1946792984
SNP_P4_42062_12604571	NC_021163.1	Ca_kabuli_chr04	12604571	AA	CC	1946792986
SNP_P4_42063_12604975	NC_021163.1	Ca_kabuli_chr04	12604975	AA	GG	1946792988
SNP_P4_42064_12605414	NC_021163.1	Ca_kabuli_chr04	12605414	GG	AA	1946792990
SNP_P4_42065_12605619	NC_021163.1	Ca_kabuli_chr04	12605619	CC	TT	1946792992
SNP_P4_42066_12605774	NC_021163.1	Ca_kabuli_chr04	12605774	TT	CC	1946792994
SNP_P4_42067_12605815	NC_021163.1	Ca_kabuli_chr04	12605815	TT	AA	1946792996
SNP_P4_42070_12607409	NC_021163.1	Ca_kabuli_chr04	12607409	AA	TT	1946792998
SNP_P4_42071_12607706	NC_021163.1	Ca_kabuli_chr04	12607706	CC	AA	1946793000
SNP_P4_42072_12607787	NC_021163.1	Ca_kabuli_chr04	12607787	GG	CC	1946793002
SNP_P4_42073_12607854	NC_021163.1	Ca_kabuli_chr04	12607854	AA	GG	1946793004
SNP_P4_42074_12607859	NC_021163.1	Ca_kabuli_chr04	12607859	GG	CC	1946793006

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_42075_12607864	NC_021163.1	Ca_kabuli_chr04	12607864	TT	AA	1946793008
SNP_P4_42076_12607892	NC_021163.1	Ca_kabuli_chr04	12607892	AA	TT	1946793010
SNP_P4_42077_12607924	NC_021163.1	Ca_kabuli_chr04	12607924	GG	TT	1946793012
SNP_P4_42078_12608549	NC_021163.1	Ca_kabuli_chr04	12608549	TT	AA	1946793014
SNP_P4_42079_12608793	NC_021163.1	Ca_kabuli_chr04	12608793	CC	TT	1946793016
SNP_P4_42080_12608795	NC_021163.1	Ca_kabuli_chr04	12608795	GG	AA	1946793018
SNP_P4_42081_12609376	NC_021163.1	Ca_kabuli_chr04	12609376	AA	TT	1946793020
SNP_P4_42082_12612005	NC_021163.1	Ca_kabuli_chr04	12612005	AA	GG	1946793022
SNP_P4_42083_12622076	NC_021163.1	Ca_kabuli_chr04	12622076	CC	TT	1946793024
SNP_P4_42084_12627418	NC_021163.1	Ca_kabuli_chr04	12627418	CC	TT	1946793026
SNP_P4_42085_12627568	NC_021163.1	Ca_kabuli_chr04	12627568	AA	GG	1946793028
SNP_P4_42086_12627730	NC_021163.1	Ca_kabuli_chr04	12627730	CC	TT	1946793030
SNP_P4_42087_12628062	NC_021163.1	Ca_kabuli_chr04	12628062	GG	TT	1946793032
SNP_P4_42088_12656499	NC_021163.1	Ca_kabuli_chr04	12656499	CC	AA	1946793034
SNP_P4_42090_12676345	NC_021163.1	Ca_kabuli_chr04	12676345	GG	AA	1946793036
SNP_P4_42091_12676398	NC_021163.1	Ca_kabuli_chr04	12676398	GG	AA	1946793038
SNP_P4_42092_12676452	NC_021163.1	Ca_kabuli_chr04	12676452	GG	AA	1946793040
SNP_P4_42093_12676486	NC_021163.1	Ca_kabuli_chr04	12676486	TT	CC	1946793042
SNP_P4_42094_12676665	NC_021163.1	Ca_kabuli_chr04	12676665	AA	GG	1946793044
SNP_P4_42095_12676713	NC_021163.1	Ca_kabuli_chr04	12676713	AA	GG	1946793046
SNP_P4_42096_12676757	NC_021163.1	Ca_kabuli_chr04	12676757	GG	AA	1946793048
SNP_P4_42097_12676758	NC_021163.1	Ca_kabuli_chr04	12676758	GG	CC	1946793050
SNP_P4_42098_12676766	NC_021163.1	Ca_kabuli_chr04	12676766	AA	GG	1946793052
SNP_P4_42099_12680229	NC_021163.1	Ca_kabuli_chr04	12680229	TT	AA	1946793054
SNP_P4_42100_12680230	NC_021163.1	Ca_kabuli_chr04	12680230	TT	AA	1946793056
SNP_P4_42101_12700518	NC_021163.1	Ca_kabuli_chr04	12700518	GG	AA	1946793058
SNP_P4_42103_12704195	NC_021163.1	Ca_kabuli_chr04	12704195	GG	AA	1946793060
SNP_P4_42104_12724743	NC_021163.1	Ca_kabuli_chr04	12724743	GG	AA	1946793062
SNP_P4_42106_12756778	NC_021163.1	Ca_kabuli_chr04	12756778	CC	TT	1946793064
SNP_P4_42107_12769779	NC_021163.1	Ca_kabuli_chr04	12769779	AA	TT	1946793067
SNP_P4_42108_12771276	NC_021163.1	Ca_kabuli_chr04	12771276	AA	TT	1946793069
SNP_P4_42109_12772311	NC_021163.1	Ca_kabuli_chr04	12772311	GG	TT	1946793071
SNP_P4_42113_12798952	NC_021163.1	Ca_kabuli_chr04	12798952	AA	GG	1946793073
SNP_P4_42114_12820861	NC_021163.1	Ca_kabuli_chr04	12820861	CC	TT	1946793075
SNP_P4_42115_12828670	NC_021163.1	Ca_kabuli_chr04	12828670	TT	GG	1946793077
SNP_P4_42116_12828673	NC_021163.1	Ca_kabuli_chr04	12828673	TT	CC	1946793079
SNP_P4_42117_12833461	NC_021163.1	Ca_kabuli_chr04	12833461	CC	TT	1946793081
SNP_P4_42118_12833470	NC_021163.1	Ca_kabuli_chr04	12833470	TT	CC	1946793083
SNP_P4_42119_12836541	NC_021163.1	Ca_kabuli_chr04	12836541	AA	CC	1946793085
SNP_P4_42120_12836542	NC_021163.1	Ca_kabuli_chr04	12836542	AA	GG	1946793087
SNP_P4_42124_12888679	NC_021163.1	Ca_kabuli_chr04	12888679	CC	AA	1946793089
SNP_P4_42127_12925888	NC_021163.1	Ca_kabuli_chr04	12925888	AA	GG	1946793091

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_42129_12926479	NC_021163.1	Ca_kabuli_chr04	12926479	CC	TT	1946793096
SNP_P4_42130_12935831	NC_021163.1	Ca_kabuli_chr04	12935831	TT	GG	1946793098
SNP_P4_42131_12968464	NC_021163.1	Ca_kabuli_chr04	12968464	TT	CC	1946793100
SNP_P4_42132_12985967	NC_021163.1	Ca_kabuli_chr04	12985967	TT	CC	1946793102
SNP_P4_42133_12985974	NC_021163.1	Ca_kabuli_chr04	12985974	AA	CC	1946793104
SNP_P4_42134_12985981	NC_021163.1	Ca_kabuli_chr04	12985981	TT	AA	1946793106
SNP_P4_42135_12985994	NC_021163.1	Ca_kabuli_chr04	12985994	TT	GG	1946793108
SNP_P4_42136_12986909	NC_021163.1	Ca_kabuli_chr04	12986909	TT	CC	1946793110
SNP_P4_42139_13031878	NC_021163.1	Ca_kabuli_chr04	13031878	TT	AA	1946793112
SNP_P4_42140_13036288	NC_021163.1	Ca_kabuli_chr04	13036288	CC	TT	1946793114
SNP_P4_42141_13047436	NC_021163.1	Ca_kabuli_chr04	13047436	TT	GG	1946793116
SNP_P4_42142_13047469	NC_021163.1	Ca_kabuli_chr04	13047469	TT	CC	1946793118
SNP_P4_42143_13047488	NC_021163.1	Ca_kabuli_chr04	13047488	TT	CC	1946793120
SNP_P4_42144_13048924	NC_021163.1	Ca_kabuli_chr04	13048924	TT	CC	1946793122
SNP_P4_42145_13049973	NC_021163.1	Ca_kabuli_chr04	13049973	GG	AA	1946793125
SNP_P4_42146_13049974	NC_021163.1	Ca_kabuli_chr04	13049974	TT	AA	1946793127
SNP_P4_42147_13075042	NC_021163.1	Ca_kabuli_chr04	13075042	CC	GG	1946793129
SNP_P4_42148_13081123	NC_021163.1	Ca_kabuli_chr04	13081123	TT	CC	1946793131
SNP_P4_42149_13082266	NC_021163.1	Ca_kabuli_chr04	13082266	AA	TT	1946793133
SNP_P4_42150_13082268	NC_021163.1	Ca_kabuli_chr04	13082268	AA	TT	1946793135
SNP_P4_42151_13092972	NC_021163.1	Ca_kabuli_chr04	13092972	CC	TT	1946793138
SNP_P4_42152_13099523	NC_021163.1	Ca_kabuli_chr04	13099523	CC	TT	1946793140
SNP_P4_42153_13104366	NC_021163.1	Ca_kabuli_chr04	13104366	CC	TT	1946793142
SNP_P4_42154_13126290	NC_021163.1	Ca_kabuli_chr04	13126290	TT	AA	1946793144
SNP_P4_42158_13158189	NC_021163.1	Ca_kabuli_chr04	13158189	TT	CC	1946793146
SNP_P4_42159_13161136	NC_021163.1	Ca_kabuli_chr04	13161136	TT	CC	1946793148
SNP_P4_42160_13185209	NC_021163.1	Ca_kabuli_chr04	13185209	TT	GG	1946793150
SNP_P4_42161_13187696	NC_021163.1	Ca_kabuli_chr04	13187696	TT	AA	1946793153
SNP_P4_42162_13189186	NC_021163.1	Ca_kabuli_chr04	13189186	TT	CC	1946793155
SNP_P4_42164_13195891	NC_021163.1	Ca_kabuli_chr04	13195891	TT	AA	1946793157
SNP_P4_42165_13196349	NC_021163.1	Ca_kabuli_chr04	13196349	AA	CC	1946793159
SNP_P4_42166_13205379	NC_021163.1	Ca_kabuli_chr04	13205379	GG	TT	1946793161
SNP_P4_42168_13214301	NC_021163.1	Ca_kabuli_chr04	13214301	GG	AA	1946793163
SNP_P4_42169_13215821	NC_021163.1	Ca_kabuli_chr04	13215821	AA	GG	1946793166
SNP_P4_42170_13233293	NC_021163.1	Ca_kabuli_chr04	13233293	TT	GG	1946793168
SNP_P4_42171_13233309	NC_021163.1	Ca_kabuli_chr04	13233309	TT	CC	1946793170
SNP_P4_42172_13242649	NC_021163.1	Ca_kabuli_chr04	13242649	GG	AA	1946793172
SNP_P4_42173_13242997	NC_021163.1	Ca_kabuli_chr04	13242997	CC	TT	1946793174
SNP_P4_42175_13303871	NC_021163.1	Ca_kabuli_chr04	13303871	GG	TT	1946793176
SNP_P4_42176_13331455	NC_021163.1	Ca_kabuli_chr04	13331455	CC	AA	1946793178
SNP_P4_42178_13404461	NC_021163.1	Ca_kabuli_chr04	13404461	TT	AA	1946793181

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_42180_13421126	NC_021163.1	Ca_kabuli_chr04	13421126	TT	CC	1946793185
SNP_P4_42182_13436788	NC_021163.1	Ca_kabuli_chr04	13436788	AA	GG	1946793187
SNP_P4_42184_13459684	NC_021163.1	Ca_kabuli_chr04	13459684	AA	GG	1946793189
SNP_P4_42185_13468270	NC_021163.1	Ca_kabuli_chr04	13468270	TT	CC	1946793191
SNP_P4_42186_13468331	NC_021163.1	Ca_kabuli_chr04	13468331	CC	AA	1946793193
SNP_P4_42187_13468978	NC_021163.1	Ca_kabuli_chr04	13468978	AA	GG	1946793195
SNP_P4_42188_13477419	NC_021163.1	Ca_kabuli_chr04	13477419	GG	AA	1946793197
SNP_P4_42191_13496090	NC_021163.1	Ca_kabuli_chr04	13496090	TT	AA	1946793199
SNP_P4_42192_13496091	NC_021163.1	Ca_kabuli_chr04	13496091	TT	CC	1946793201
SNP_P4_42194_13510544	NC_021163.1	Ca_kabuli_chr04	13510544	GG	AA	1946793203
SNP_P4_42195_13543950	NC_021163.1	Ca_kabuli_chr04	13543950	TT	AA	1946793205
SNP_P4_42197_13550069	NC_021163.1	Ca_kabuli_chr04	13550069	CC	TT	1946793207
SNP_P4_42198_13555014	NC_021163.1	Ca_kabuli_chr04	13555014	GG	AA	1946793209
SNP_P4_42199_13555410	NC_021163.1	Ca_kabuli_chr04	13555410	GG	AA	1946793211
SNP_P4_42201_13555506	NC_021163.1	Ca_kabuli_chr04	13555506	CC	TT	1946793213
SNP_P4_42202_13555515	NC_021163.1	Ca_kabuli_chr04	13555515	CC	TT	1946793215
SNP_P4_42203_13555518	NC_021163.1	Ca_kabuli_chr04	13555518	CC	TT	1946793217
SNP_P4_42204_13555590	NC_021163.1	Ca_kabuli_chr04	13555590	GG	CC	1946793218
SNP_P4_42205_13555705	NC_021163.1	Ca_kabuli_chr04	13555705	CC	TT	1946793220
SNP_P4_42206_13555892	NC_021163.1	Ca_kabuli_chr04	13555892	CC	TT	1946793222
SNP_P4_42209_13556960	NC_021163.1	Ca_kabuli_chr04	13556960	CC	AA	1946793224
SNP_P4_42210_13557026	NC_021163.1	Ca_kabuli_chr04	13557026	CC	TT	1946793226
SNP_P4_42211_13557032	NC_021163.1	Ca_kabuli_chr04	13557032	AA	GG	1946793228
SNP_P4_42212_13557034	NC_021163.1	Ca_kabuli_chr04	13557034	TT	CC	1946793230
SNP_P4_42213_13557160	NC_021163.1	Ca_kabuli_chr04	13557160	TT	CC	1946793232
SNP_P4_42214_13557178	NC_021163.1	Ca_kabuli_chr04	13557178	TT	CC	1946793234
SNP_P4_42215_13557218	NC_021163.1	Ca_kabuli_chr04	13557218	CC	AA	1946793236
SNP_P4_42216_13557514	NC_021163.1	Ca_kabuli_chr04	13557514	AA	GG	1946793238
SNP_P4_42217_13558731	NC_021163.1	Ca_kabuli_chr04	13558731	TT	GG	1946793241
SNP_P4_42218_13559935	NC_021163.1	Ca_kabuli_chr04	13559935	CC	TT	1946793243
SNP_P4_42219_13559960	NC_021163.1	Ca_kabuli_chr04	13559960	CC	TT	1946793245
SNP_P4_42220_13559986	NC_021163.1	Ca_kabuli_chr04	13559986	CC	GG	1946793247
SNP_P4_42221_13560257	NC_021163.1	Ca_kabuli_chr04	13560257	AA	GG	1946793249
SNP_P4_42222_13560266	NC_021163.1	Ca_kabuli_chr04	13560266	AA	GG	1946793251
SNP_P4_42223_13560269	NC_021163.1	Ca_kabuli_chr04	13560269	GG	CC	1946793253
SNP_P4_42224_13574475	NC_021163.1	Ca_kabuli_chr04	13574475	CC	GG	1946793255
SNP_P4_42225_13574718	NC_021163.1	Ca_kabuli_chr04	13574718	GG	TT	1946793257
SNP_P4_42226_13574724	NC_021163.1	Ca_kabuli_chr04	13574724	GG	AA	1946793260
SNP_P4_42227_13574730	NC_021163.1	Ca_kabuli_chr04	13574730	CC	TT	1946793262
SNP_P4_42228_13574738	NC_021163.1	Ca_kabuli_chr04	13574738	AA	GG	1946793264
SNP_P4_42229_13574796	NC_021163.1	Ca_kabuli_chr04	13574796	CC	TT	1946793266

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_42232_13577526	NC_021163.1	Ca_kabuli_chr04	13577526	AA	GG	1946793272
SNP_P4_42234_13577793	NC_021163.1	Ca_kabuli_chr04	13577793	AA	CC	1946793274
SNP_P4_42235_13577805	NC_021163.1	Ca_kabuli_chr04	13577805	TT	AA	1946793276
SNP_P4_42238_13579927	NC_021163.1	Ca_kabuli_chr04	13579927	TT	AA	1946793278
SNP_P4_42239_13579934	NC_021163.1	Ca_kabuli_chr04	13579934	TT	AA	1946793280
SNP_P4_42240_13580707	NC_021163.1	Ca_kabuli_chr04	13580707	TT	CC	1946793282
SNP_P4_42241_13581736	NC_021163.1	Ca_kabuli_chr04	13581736	AA	GG	1946793284
SNP_P4_42243_13582192	NC_021163.1	Ca_kabuli_chr04	13582192	CC	TT	1946793286
SNP_P4_42244_13582198	NC_021163.1	Ca_kabuli_chr04	13582198	GG	TT	1946793288
SNP_P4_42245_13582206	NC_021163.1	Ca_kabuli_chr04	13582206	GG	AA	1946793290
SNP_P4_42246_13582213	NC_021163.1	Ca_kabuli_chr04	13582213	GG	AA	1946793292
SNP_P4_42247_13582214	NC_021163.1	Ca_kabuli_chr04	13582214	AA	TT	1946793294
SNP_P4_42248_13582227	NC_021163.1	Ca_kabuli_chr04	13582227	GG	AA	1946793296
SNP_P4_42249_13582324	NC_021163.1	Ca_kabuli_chr04	13582324	TT	CC	1946793298
SNP_P4_42250_13582332	NC_021163.1	Ca_kabuli_chr04	13582332	TT	CC	1946793300
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SNP_P4_42253_13582705	NC_021163.1	Ca_kabuli_chr04	13582705	AA	TT	1946793306
SNP_P4_42254_13582727	NC_021163.1	Ca_kabuli_chr04	13582727	TT	CC	1946793308
SNP_P4_42256_13584539	NC_021163.1	Ca_kabuli_chr04	13584539	CC	TT	1946793310
SNP_P4_42257_13584545	NC_021163.1	Ca_kabuli_chr04	13584545	GG	AA	1946793313
SNP_P4_42259_13584886	NC_021163.1	Ca_kabuli_chr04	13584886	GG	AA	1946793315
SNP_P4_42260_13584899	NC_021163.1	Ca_kabuli_chr04	13584899	CC	TT	1946793317
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SNP_P4_42262_13586114	NC_021163.1	Ca_kabuli_chr04	13586114	TT	CC	1946793322
SNP_P4_42264_13586365	NC_021163.1	Ca_kabuli_chr04	13586365	CC	AA	1946793324
SNP_P4_42265_13586518	NC_021163.1	Ca_kabuli_chr04	13586518	CC	GG	1946793326
SNP_P4_42266_13586555	NC_021163.1	Ca_kabuli_chr04	13586555	TT	AA	1946793328
SNP_P4_42267_13586572	NC_021163.1	Ca_kabuli_chr04	13586572	GG	TT	1946793330
SNP_P4_42269_13586653	NC_021163.1	Ca_kabuli_chr04	13586653	AA	CC	1946793332
SNP_P4_42270_13587329	NC_021163.1	Ca_kabuli_chr04	13587329	CC	AA	1946793334
SNP_P4_42271_13587371	NC_021163.1	Ca_kabuli_chr04	13587371	CC	TT	1946793336
SNP_P4_42272_13587704	NC_021163.1	Ca_kabuli_chr04	13587704	AA	TT	1946793338
SNP_P4_42273_13588759	NC_021163.1	Ca_kabuli_chr04	13588759	GG	CC	1946793341
SNP_P4_42274_13589290	NC_021163.1	Ca_kabuli_chr04	13589290	CC	TT	1946793343
SNP_P4_42275_13589320	NC_021163.1	Ca_kabuli_chr04	13589320	GG	TT	1946793345
SNP_P4_42276_13589618	NC_021163.1	Ca_kabuli_chr04	13589618	CC	GG	1946793347
SNP_P4_42277_13589950	NC_021163.1	Ca_kabuli_chr04	13589950	CC	TT	1946793349
SNP_P4_42278_13589999	NC_021163.1	Ca_kabuli_chr04	13589999	TT	GG	1946793351
SNP_P4_42279_13590760	NC_021163.1	Ca_kabuli_chr04	13590760	GG	TT	1946793353

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_42283_13593769	NC_021163.1	Ca_kabuli_chr04	13593769	CC	TT	1946793359
SNP_P4_42284_13593996	NC_021163.1	Ca_kabuli_chr04	13593996	GG	AA	1946793361
SNP_P4_42285_13602122	NC_021163.1	Ca_kabuli_chr04	13602122	AA	GG	1946793363
SNP_P4_42287_13604467	NC_021163.1	Ca_kabuli_chr04	13604467	CC	TT	1946793365
SNP_P4_42288_13606639	NC_021163.1	Ca_kabuli_chr04	13606639	CC	TT	1946793367
SNP_P4_42289_13608182	NC_021163.1	Ca_kabuli_chr04	13608182	GG	AA	1946793369
SNP_P4_42291_13608348	NC_021163.1	Ca_kabuli_chr04	13608348	AA	CC	1946793371
SNP_P4_42292_13608376	NC_021163.1	Ca_kabuli_chr04	13608376	GG	TT	1946793372
SNP_P4_42295_13610638	NC_021163.1	Ca_kabuli_chr04	13610638	GG	TT	1946793374
SNP_P4_42298_13613333	NC_021163.1	Ca_kabuli_chr04	13613333	AA	TT	1946793376
SNP_P4_42299_13613334	NC_021163.1	Ca_kabuli_chr04	13613334	TT	AA	1946793378
SNP_P4_42300_13613337	NC_021163.1	Ca_kabuli_chr04	13613337	TT	AA	1946793380
SNP_P4_42301_13613350	NC_021163.1	Ca_kabuli_chr04	13613350	CC	TT	1946793382
SNP_P4_42302_13613901	NC_021163.1	Ca_kabuli_chr04	13613901	GG	CC	1946793384
SNP_P4_42303_13613902	NC_021163.1	Ca_kabuli_chr04	13613902	AA	CC	1946793386
SNP_P4_42304_13614057	NC_021163.1	Ca_kabuli_chr04	13614057	CC	TT	1946793388
SNP_P4_42305_13614104	NC_021163.1	Ca_kabuli_chr04	13614104	GG	AA	1946793391
SNP_P4_42306_13614346	NC_021163.1	Ca_kabuli_chr04	13614346	TT	GG	1946793393
SNP_P4_42307_13614348	NC_021163.1	Ca_kabuli_chr04	13614348	AA	GG	1946793395
SNP_P4_42308_13615062	NC_021163.1	Ca_kabuli_chr04	13615062	CC	AA	1946793397
SNP_P4_42309_13615096	NC_021163.1	Ca_kabuli_chr04	13615096	AA	GG	1946793399
SNP_P4_42310_13615634	NC_021163.1	Ca_kabuli_chr04	13615634	GG	TT	1946793401
SNP_P4_42312_13618841	NC_021163.1	Ca_kabuli_chr04	13618841	TT	CC	1946793403
SNP_P4_42313_13618856	NC_021163.1	Ca_kabuli_chr04	13618856	TT	CC	1946793405
SNP_P4_42315_13619114	NC_021163.1	Ca_kabuli_chr04	13619114	AA	GG	1946793407
SNP_P4_42317_13619698	NC_021163.1	Ca_kabuli_chr04	13619698	TT	CC	1946793409
SNP_P4_42318_13619702	NC_021163.1	Ca_kabuli_chr04	13619702	CC	TT	1946793411
SNP_P4_42319_13619732	NC_021163.1	Ca_kabuli_chr04	13619732	TT	CC	1946793413
SNP_P4_42320_13619799	NC_021163.1	Ca_kabuli_chr04	13619799	CC	GG	1946793415
SNP_P4_42321_13619806	NC_021163.1	Ca_kabuli_chr04	13619806	AA	CC	1946793418
SNP_P4_42322_13619982	NC_021163.1	Ca_kabuli_chr04	13619982	GG	TT	1946793420
SNP_P4_42323_13619983	NC_021163.1	Ca_kabuli_chr04	13619983	CC	TT	1946793422
SNP_P4_42324_13620231	NC_021163.1	Ca_kabuli_chr04	13620231	AA	GG	1946793424
SNP_P4_42325_13620954	NC_021163.1	Ca_kabuli_chr04	13620954	CC	AA	1946793426
SNP_P4_42327_13621454	NC_021163.1	Ca_kabuli_chr04	13621454	CC	TT	1946793428
SNP_P4_42328_13621981	NC_021163.1	Ca_kabuli_chr04	13621981	AA	GG	1946793430
SNP_P4_42333_13624393	NC_021163.1	Ca_kabuli_chr04	13624393	CC	TT	1946793432
SNP_P4_42334_13624467	NC_021163.1	Ca_kabuli_chr04	13624467	TT	AA	1946793434
SNP_P4_42335_13624845	NC_021163.1	Ca_kabuli_chr04	13624845	GG	CC	1946793436
SNP_P4_42336_13624849	NC_021163.1	Ca_kabuli_chr04	13624849	CC	GG	1946793438

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_42338_13624872	NC_021163.1	Ca_kabuli_chr04	13624872	TT	CC	1946793442
SNP_P4_42339_13624876	NC_021163.1	Ca_kabuli_chr04	13624876	CC	TT	1946793444
SNP_P4_42340_13626102	NC_021163.1	Ca_kabuli_chr04	13626102	TT	CC	1946793446
SNP_P4_42341_13626160	NC_021163.1	Ca_kabuli_chr04	13626160	TT	CC	1946793448
SNP_P4_42342_13626432	NC_021163.1	Ca_kabuli_chr04	13626432	CC	TT	1946793450
SNP_P4_42343_13626458	NC_021163.1	Ca_kabuli_chr04	13626458	TT	CC	1946793452
SNP_P4_42344_13626484	NC_021163.1	Ca_kabuli_chr04	13626484	GG	AA	1946793454
SNP_P4_42345_13626493	NC_021163.1	Ca_kabuli_chr04	13626493	GG	AA	1946793456
SNP_P4_42346_13626994	NC_021163.1	Ca_kabuli_chr04	13626994	CC	GG	1946793458
SNP_P4_42347_13627281	NC_021163.1	Ca_kabuli_chr04	13627281	TT	AA	1946793460
SNP_P4_42349_13627364	NC_021163.1	Ca_kabuli_chr04	13627364	CC	AA	1946793462
SNP_P4_42350_13627369	NC_021163.1	Ca_kabuli_chr04	13627369	GG	AA	1946793464
SNP_P4_42351_13627412	NC_021163.1	Ca_kabuli_chr04	13627412	TT	CC	1946793466
SNP_P4_42352_13627690	NC_021163.1	Ca_kabuli_chr04	13627690	AA	GG	1946793468
SNP_P4_42353_13627703	NC_021163.1	Ca_kabuli_chr04	13627703	AA	GG	1946793470
SNP_P4_42354_13627707	NC_021163.1	Ca_kabuli_chr04	13627707	CC	TT	1946793473
SNP_P4_42355_13627711	NC_021163.1	Ca_kabuli_chr04	13627711	GG	TT	1946793475
SNP_P4_42356_13627714	NC_021163.1	Ca_kabuli_chr04	13627714	GG	CC	1946793477
SNP_P4_42357_13628286	NC_021163.1	Ca_kabuli_chr04	13628286	GG	AA	1946793479
SNP_P4_42358_13629264	NC_021163.1	Ca_kabuli_chr04	13629264	AA	GG	1946793482
SNP_P4_42359_13629482	NC_021163.1	Ca_kabuli_chr04	13629482	GG	AA	1946793484
SNP_P4_42360_13630600	NC_021163.1	Ca_kabuli_chr04	13630600	TT	CC	1946793486
SNP_P4_42362_13630674	NC_021163.1	Ca_kabuli_chr04	13630674	CC	AA	1946793488
SNP_P4_42363_13630867	NC_021163.1	Ca_kabuli_chr04	13630867	CC	GG	1946793490
SNP_P4_42364_13631031	NC_021163.1	Ca_kabuli_chr04	13631031	CC	TT	1946793492
SNP_P4_42365_13631050	NC_021163.1	Ca_kabuli_chr04	13631050	AA	CC	1946793494
SNP_P4_42367_13631332	NC_021163.1	Ca_kabuli_chr04	13631332	CC	TT	1946793496
SNP_P4_42368_13631671	NC_021163.1	Ca_kabuli_chr04	13631671	AA	TT	1946793498
SNP_P4_42369_13631693	NC_021163.1	Ca_kabuli_chr04	13631693	GG	AA	1946793500
SNP_P4_42370_13632461	NC_021163.1	Ca_kabuli_chr04	13632461	TT	CC	1946793502
SNP_P4_42371_13632463	NC_021163.1	Ca_kabuli_chr04	13632463	GG	AA	1946793504
SNP_P4_42372_13632557	NC_021163.1	Ca_kabuli_chr04	13632557	AA	GG	1946793506
SNP_P4_42373_13632712	NC_021163.1	Ca_kabuli_chr04	13632712	AA	GG	1946793508
SNP_P4_42374_13632740	NC_021163.1	Ca_kabuli_chr04	13632740	AA	GG	1946793510
SNP_P4_42375_13632858	NC_021163.1	Ca_kabuli_chr04	13632858	GG	AA	1946793512
SNP_P4_42376_13632902	NC_021163.1	Ca_kabuli_chr04	13632902	CC	TT	1946793515
SNP_P4_42377_13632975	NC_021163.1	Ca_kabuli_chr04	13632975	CC	TT	1946793517
SNP_P4_42378_13633007	NC_021163.1	Ca_kabuli_chr04	13633007	CC	TT	1946793519
SNP_P4_42379_13633008	NC_021163.1	Ca_kabuli_chr04	13633008	TT	AA	1946793521
SNP_P4_42380_13633023	NC_021163.1	Ca_kabuli_chr04	13633023	TT	CC	1946793523
SNP_P4_42381_13633113	NC_021163.1	Ca_kabuli_chr04	13633113	TT	GG	1946793525

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_42384_13633231	NC_021163.1	Ca_kabuli_chr04	13633231	TT	CC	1946793531
SNP_P4_42385_13633329	NC_021163.1	Ca_kabuli_chr04	13633329	CC	TT	1946793533
SNP_P4_42386_13633341	NC_021163.1	Ca_kabuli_chr04	13633341	GG	AA	1946793535
SNP_P4_42388_13633405	NC_021163.1	Ca_kabuli_chr04	13633405	TT	CC	1946793537
SNP_P4_42389_13633586	NC_021163.1	Ca_kabuli_chr04	13633586	TT	GG	1946793540
SNP_P4_42390_13633659	NC_021163.1	Ca_kabuli_chr04	13633659	AA	CC	1946793542
SNP_P4_42392_13633804	NC_021163.1	Ca_kabuli_chr04	13633804	GG	AA	1946793544
SNP_P4_42393_13633947	NC_021163.1	Ca_kabuli_chr04	13633947	TT	AA	1946793546
SNP_P4_42394_13634206	NC_021163.1	Ca_kabuli_chr04	13634206	AA	TT	1946793548
SNP_P4_42395_13634432	NC_021163.1	Ca_kabuli_chr04	13634432	GG	CC	1946793550
SNP_P4_42396_13635657	NC_021163.1	Ca_kabuli_chr04	13635657	CC	TT	1946793552
SNP_P4_42397_13635698	NC_021163.1	Ca_kabuli_chr04	13635698	TT	CC	1946793554
SNP_P4_42398_13635753	NC_021163.1	Ca_kabuli_chr04	13635753	CC	TT	1946793556
SNP_P4_42399_13636148	NC_021163.1	Ca_kabuli_chr04	13636148	CC	AA	1946793558
SNP_P4_42400_13636931	NC_021163.1	Ca_kabuli_chr04	13636931	GG	TT	1946793560
SNP_P4_42401_13638348	NC_021163.1	Ca_kabuli_chr04	13638348	AA	GG	1946793562
SNP_P4_42402_13638360	NC_021163.1	Ca_kabuli_chr04	13638360	GG	AA	1946793564
SNP_P4_42403_13638744	NC_021163.1	Ca_kabuli_chr04	13638744	TT	CC	1946793566
SNP_P4_42404_13638757	NC_021163.1	Ca_kabuli_chr04	13638757	AA	GG	1946793568
SNP_P4_42405_13638764	NC_021163.1	Ca_kabuli_chr04	13638764	AA	CC	1946793571
SNP_P4_42406_13638791	NC_021163.1	Ca_kabuli_chr04	13638791	GG	AA	1946793573
SNP_P4_42407_13638820	NC_021163.1	Ca_kabuli_chr04	13638820	TT	AA	1946793575
SNP_P4_42408_13639287	NC_021163.1	Ca_kabuli_chr04	13639287	AA	GG	1946793577
SNP_P4_42409_13639373	NC_021163.1	Ca_kabuli_chr04	13639373	CC	TT	1946793579
SNP_P4_42410_13639481	NC_021163.1	Ca_kabuli_chr04	13639481	AA	GG	1946793581
SNP_P4_42411_13641148	NC_021163.1	Ca_kabuli_chr04	13641148	CC	AA	1946793583
SNP_P4_42412_13641318	NC_021163.1	Ca_kabuli_chr04	13641318	CC	AA	1946793585
SNP_P4_42415_13643806	NC_021163.1	Ca_kabuli_chr04	13643806	AA	GG	1946793587
SNP_P4_42419_13644443	NC_021163.1	Ca_kabuli_chr04	13644443	AA	CC	1946793589
SNP_P4_42420_13644698	NC_021163.1	Ca_kabuli_chr04	13644698	GG	CC	1946793591
SNP_P4_42421_13647555	NC_021163.1	Ca_kabuli_chr04	13647555	GG	AA	1946793593
SNP_P4_42422_13647572	NC_021163.1	Ca_kabuli_chr04	13647572	TT	CC	1946793595
SNP_P4_42423_13647850	NC_021163.1	Ca_kabuli_chr04	13647850	CC	AA	1946793597
SNP_P4_42424_13647856	NC_021163.1	Ca_kabuli_chr04	13647856	AA	TT	1946793599
SNP_P4_42425_13647905	NC_021163.1	Ca_kabuli_chr04	13647905	TT	AA	1946793601
SNP_P4_42426_13647906	NC_021163.1	Ca_kabuli_chr04	13647906	TT	AA	1946793603
SNP_P4_42428_13650151	NC_021163.1	Ca_kabuli_chr04	13650151	TT	CC	1946793606
SNP_P4_42429_13650463	NC_021163.1	Ca_kabuli_chr04	13650463	CC	GG	1946793608
SNP_P4_42431_13650825	NC_021163.1	Ca_kabuli_chr04	13650825	CC	TT	1946793610
SNP_P4_42432_13650995	NC_021163.1	Ca_kabuli_chr04	13650995	AA	CC	1946793612

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_42435_13654556	NC_021163.1	Ca_kabuli_chr04	13654556	AA	GG	1946793616
SNP_P4_42436_13654599	NC_021163.1	Ca_kabuli_chr04	13654599	AA	TT	1946793619
SNP_P4_42437_13656180	NC_021163.1	Ca_kabuli_chr04	13656180	GG	CC	1946793621
SNP_P4_42438_13656182	NC_021163.1	Ca_kabuli_chr04	13656182	TT	CC	1946793623
SNP_P4_42439_13656186	NC_021163.1	Ca_kabuli_chr04	13656186	CC	GG	1946793625
SNP_P4_42440_13656211	NC_021163.1	Ca_kabuli_chr04	13656211	CC	TT	1946793627
SNP_P4_42441_13656777	NC_021163.1	Ca_kabuli_chr04	13656777	AA	GG	1946793629
SNP_P4_42443_13657749	NC_021163.1	Ca_kabuli_chr04	13657749	TT	CC	1946793632
SNP_P4_42444_13657953	NC_021163.1	Ca_kabuli_chr04	13657953	AA	TT	1946793634
SNP_P4_42445_13658002	NC_021163.1	Ca_kabuli_chr04	13658002	GG	CC	1946793636
SNP_P4_42446_13658288	NC_021163.1	Ca_kabuli_chr04	13658288	TT	AA	1946793638
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SNP_P4_42449_13659111	NC_021163.1	Ca_kabuli_chr04	13659111	GG	AA	1946793642
SNP_P4_42450_13659260	NC_021163.1	Ca_kabuli_chr04	13659260	TT	CC	1946793644
SNP_P4_42451_13659300	NC_021163.1	Ca_kabuli_chr04	13659300	CC	TT	1946793646
SNP_P4_42452_13659303	NC_021163.1	Ca_kabuli_chr04	13659303	GG	AA	1946793648
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SNP_P4_42454_13659350	NC_021163.1	Ca_kabuli_chr04	13659350	CC	TT	1946793652
SNP_P4_42456_13662104	NC_021163.1	Ca_kabuli_chr04	13662104	AA	GG	1946793654
SNP_P4_42457_13662682	NC_021163.1	Ca_kabuli_chr04	13662682	GG	AA	1946793656
SNP_P4_42458_13662876	NC_021163.1	Ca_kabuli_chr04	13662876	TT	GG	1946793658
SNP_P4_42460_13663092	NC_021163.1	Ca_kabuli_chr04	13663092	TT	CC	1946793660
SNP_P4_42461_13663217	NC_021163.1	Ca_kabuli_chr04	13663217	AA	TT	1946793662
SNP_P4_42462_13663219	NC_021163.1	Ca_kabuli_chr04	13663219	GG	TT	1946793664
SNP_P4_42463_13663304	NC_021163.1	Ca_kabuli_chr04	13663304	TT	AA	1946793666
SNP_P4_42464_13663454	NC_021163.1	Ca_kabuli_chr04	13663454	TT	GG	1946793668
SNP_P4_42465_13663523	NC_021163.1	Ca_kabuli_chr04	13663523	CC	TT	1946793670
SNP_P4_42467_13665737	NC_021163.1	Ca_kabuli_chr04	13665737	TT	AA	1946793672
SNP_P4_42468_13666458	NC_021163.1	Ca_kabuli_chr04	13666458	AA	TT	1946793674
SNP_P4_42469_13666728	NC_021163.1	Ca_kabuli_chr04	13666728	CC	TT	1946793677
SNP_P4_42470_13667403	NC_021163.1	Ca_kabuli_chr04	13667403	TT	CC	1946793679
SNP_P4_42471_13667411	NC_021163.1	Ca_kabuli_chr04	13667411	CC	TT	1946793681
SNP_P4_42472_13667686	NC_021163.1	Ca_kabuli_chr04	13667686	CC	TT	1946793683
SNP_P4_42474_13667903	NC_021163.1	Ca_kabuli_chr04	13667903	GG	AA	1946793685
SNP_P4_42476_13669482	NC_021163.1	Ca_kabuli_chr04	13669482	GG	CC	1946793687
SNP_P4_42478_13669790	NC_021163.1	Ca_kabuli_chr04	13669790	AA	CC	1946793689
SNP_P4_42480_13670082	NC_021163.1	Ca_kabuli_chr04	13670082	CC	TT	1946793691
SNP_P4_42481_13670085	NC_021163.1	Ca_kabuli_chr04	13670085	AA	TT	1946793693
SNP_P4_42482_13670637	NC_021163.1	Ca_kabuli_chr04	13670637	TT	CC	1946793695
SNP_P4_42483_13670675	NC_021163.1	Ca_kabuli_chr04	13670675	AA	GG	1946793697
SNP_P4_42484_13670677	NC_021163.1	Ca_kabuli_chr04	13670677	CC	TT	1946793699

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_42487_13670959	NC_021163.1	Ca_kabuli_chr04	13670959	GG	CC	1946793705
SNP_P4_42488_13670961	NC_021163.1	Ca_kabuli_chr04	13670961	CC	TT	1946793707
SNP_P4_42489_13670977	NC_021163.1	Ca_kabuli_chr04	13670977	GG	AA	1946793709
SNP_P4_42490_13671116	NC_021163.1	Ca_kabuli_chr04	13671116	AA	GG	1946793711
SNP_P4_42491_13671117	NC_021163.1	Ca_kabuli_chr04	13671117	AA	GG	1946793713
SNP_P4_42492_13671137	NC_021163.1	Ca_kabuli_chr04	13671137	CC	TT	1946793715
SNP_P4_42493_13671160	NC_021163.1	Ca_kabuli_chr04	13671160	AA	GG	1946793717
SNP_P4_42497_13674932	NC_021163.1	Ca_kabuli_chr04	13674932	GG	AA	1946793719
SNP_P4_42498_13675263	NC_021163.1	Ca_kabuli_chr04	13675263	TT	CC	1946793721
SNP_P4_42499_13675275	NC_021163.1	Ca_kabuli_chr04	13675275	TT	GG	1946793723
SNP_P4_42500_13675277	NC_021163.1	Ca_kabuli_chr04	13675277	GG	AA	1946793725
SNP_P4_42501_13675287	NC_021163.1	Ca_kabuli_chr04	13675287	AA	GG	1946793727
SNP_P4_42502_13675842	NC_021163.1	Ca_kabuli_chr04	13675842	AA	TT	1946793729
SNP_P4_42503_13675978	NC_021163.1	Ca_kabuli_chr04	13675978	GG	CC	1946793731
SNP_P4_42505_13676251	NC_021163.1	Ca_kabuli_chr04	13676251	AA	GG	1946793733
SNP_P4_42507_13676314	NC_021163.1	Ca_kabuli_chr04	13676314	GG	CC	1946793736
SNP_P4_42508_13676316	NC_021163.1	Ca_kabuli_chr04	13676316	TT	AA	1946793738
SNP_P4_42509_13677885	NC_021163.1	Ca_kabuli_chr04	13677885	AA	GG	1946793740
SNP_P4_42510_13678145	NC_021163.1	Ca_kabuli_chr04	13678145	TT	CC	1946793743
SNP_P4_42511_13678158	NC_021163.1	Ca_kabuli_chr04	13678158	CC	TT	1946793745
SNP_P4_42513_13682276	NC_021163.1	Ca_kabuli_chr04	13682276	CC	TT	1946793747
SNP_P4_42514_13682389	NC_021163.1	Ca_kabuli_chr04	13682389	TT	AA	1946793749
SNP_P4_42515_13682393	NC_021163.1	Ca_kabuli_chr04	13682393	AA	GG	1946793751
SNP_P4_42516_13682491	NC_021163.1	Ca_kabuli_chr04	13682491	AA	GG	1946793753
SNP_P4_42517_13682517	NC_021163.1	Ca_kabuli_chr04	13682517	GG	AA	1946793755
SNP_P4_42518_13682533	NC_021163.1	Ca_kabuli_chr04	13682533	GG	TT	1946793757
SNP_P4_42519_13682742	NC_021163.1	Ca_kabuli_chr04	13682742	GG	AA	1946793759
SNP_P4_42520_13682784	NC_021163.1	Ca_kabuli_chr04	13682784	CC	TT	1946793761
SNP_P4_42521_13683034	NC_021163.1	Ca_kabuli_chr04	13683034	GG	AA	1946793763
SNP_P4_42522_13683060	NC_021163.1	Ca_kabuli_chr04	13683060	AA	GG	1946793765
SNP_P4_42523_13683093	NC_021163.1	Ca_kabuli_chr04	13683093	AA	GG	1946793767
SNP_P4_42524_13683132	NC_021163.1	Ca_kabuli_chr04	13683132	GG	AA	1946793769
SNP_P4_42525_13684843	NC_021163.1	Ca_kabuli_chr04	13684843	GG	AA	1946793771
SNP_P4_42526_13684849	NC_021163.1	Ca_kabuli_chr04	13684849	GG	AA	1946793774
SNP_P4_42527_13687456	NC_021163.1	Ca_kabuli_chr04	13687456	GG	AA	1946793776
SNP_P4_42528_13687636	NC_021163.1	Ca_kabuli_chr04	13687636	CC	GG	1946793778
SNP_P4_42531_13691002	NC_021163.1	Ca_kabuli_chr04	13691002	AA	GG	1946793780
SNP_P4_42532_13691018	NC_021163.1	Ca_kabuli_chr04	13691018	CC	TT	1946793782
SNP_P4_42533_13691820	NC_021163.1	Ca_kabuli_chr04	13691820	GG	TT	1946793784
SNP_P4_42534_13691843	NC_021163.1	Ca_kabuli_chr04	13691843	TT	CC	1946793786

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_42535_13691844	NC_021163.1	Ca_kabuli_chr04	13691844	CC	AA	1946793788
SNP_P4_42536_13691905	NC_021163.1	Ca_kabuli_chr04	13691905	AA	GG	1946793790
SNP_P4_42537_13692461	NC_021163.1	Ca_kabuli_chr04	13692461	AA	TT	1946793792
SNP_P4_42538_13692802	NC_021163.1	Ca_kabuli_chr04	13692802	GG	AA	1946793794
SNP_P4_42539_13693894	NC_021163.1	Ca_kabuli_chr04	13693894	TT	AA	1946793796
SNP_P4_42540_13694225	NC_021163.1	Ca_kabuli_chr04	13694225	TT	CC	1946793798
SNP_P4_42541_13697511	NC_021163.1	Ca_kabuli_chr04	13697511	CC	TT	1946793800
SNP_P4_42543_13698500	NC_021163.1	Ca_kabuli_chr04	13698500	TT	CC	1946793802
SNP_P4_42544_13699400	NC_021163.1	Ca_kabuli_chr04	13699400	GG	TT	1946793804
SNP_P4_42546_13703452	NC_021163.1	Ca_kabuli_chr04	13703452	CC	AA	1946793806
SNP_P4_42547_13703453	NC_021163.1	Ca_kabuli_chr04	13703453	AA	GG	1946793808
SNP_P4_42548_13708182	NC_021163.1	Ca_kabuli_chr04	13708182	TT	CC	1946793810
SNP_P4_42549_13708309	NC_021163.1	Ca_kabuli_chr04	13708309	GG	AA	1946793812
SNP_P4_42551_13709589	NC_021163.1	Ca_kabuli_chr04	13709589	GG	AA	1946793814
SNP_P4_42552_13709614	NC_021163.1	Ca_kabuli_chr04	13709614	TT	GG	1946793816
SNP_P4_42553_13710233	NC_021163.1	Ca_kabuli_chr04	13710233	CC	TT	1946793818
SNP_P4_42555_13712955	NC_021163.1	Ca_kabuli_chr04	13712955	GG	AA	1946793821
SNP_P4_42556_13713550	NC_021163.1	Ca_kabuli_chr04	13713550	GG	CC	1946793823
SNP_P4_42557_13715333	NC_021163.1	Ca_kabuli_chr04	13715333	GG	AA	1946793825
SNP_P4_42558_13718817	NC_021163.1	Ca_kabuli_chr04	13718817	GG	AA	1946793827
SNP_P4_42559_13722342	NC_021163.1	Ca_kabuli_chr04	13722342	GG	CC	1946793829
SNP_P4_42560_13725195	NC_021163.1	Ca_kabuli_chr04	13725195	AA	GG	1946793831
SNP_P4_42561_13728944	NC_021163.1	Ca_kabuli_chr04	13728944	TT	AA	1946793833
SNP_P4_42562_13729786	NC_021163.1	Ca_kabuli_chr04	13729786	CC	TT	1946793835
SNP_P4_42563_13730338	NC_021163.1	Ca_kabuli_chr04	13730338	CC	TT	1946793837
SNP_P4_42564_13731805	NC_021163.1	Ca_kabuli_chr04	13731805	GG	AA	1946793839
SNP_P4_42566_13732621	NC_021163.1	Ca_kabuli_chr04	13732621	GG	CC	1946793841
SNP_P4_42567_13732768	NC_021163.1	Ca_kabuli_chr04	13732768	TT	GG	1946793844
SNP_P4_42568_13732782	NC_021163.1	Ca_kabuli_chr04	13732782	AA	GG	1946793846
SNP_P4_42569_13732797	NC_021163.1	Ca_kabuli_chr04	13732797	GG	CC	1946793848
SNP_P4_42571_13733027	NC_021163.1	Ca_kabuli_chr04	13733027	GG	AA	1946793850
SNP_P4_42572_13733048	NC_021163.1	Ca_kabuli_chr04	13733048	GG	AA	1946793852
SNP_P4_42573_13734262	NC_021163.1	Ca_kabuli_chr04	13734262	AA	GG	1946793855
SNP_P4_42574_13734274	NC_021163.1	Ca_kabuli_chr04	13734274	GG	AA	1946793857
SNP_P4_42575_13735200	NC_021163.1	Ca_kabuli_chr04	13735200	TT	GG	1946793859
SNP_P4_42576_13735477	NC_021163.1	Ca_kabuli_chr04	13735477	AA	GG	1946793861
SNP_P4_42578_13736407	NC_021163.1	Ca_kabuli_chr04	13736407	AA	TT	1946793863
SNP_P4_42579_13737783	NC_021163.1	Ca_kabuli_chr04	13737783	AA	CC	1946793865
SNP_P4_42580_13737792	NC_021163.1	Ca_kabuli_chr04	13737792	TT	CC	1946793867
SNP_P4_42581_13737946	NC_021163.1	Ca_kabuli_chr04	13737946	GG	AA	1946793869
SNP_P4_42582_13738348	NC_021163.1	Ca_kabuli_chr04	13738348	CC	GG	1946793871
SNP_P4_42583_13738426	NC_021163.1	Ca_kabuli_chr04	13738426	AA	CC	1946793873

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_42585_13739835	NC_021163.1	Ca_kabuli_chr04	13739835	GG	AA	1946793878
SNP_P4_42586_13739854	NC_021163.1	Ca_kabuli_chr04	13739854	GG	CC	1946793880
SNP_P4_42587_13739916	NC_021163.1	Ca_kabuli_chr04	13739916	AA	TT	1946793882
SNP_P4_42588_13739918	NC_021163.1	Ca_kabuli_chr04	13739918	TT	CC	1946793884
SNP_P4_42590_13740191	NC_021163.1	Ca_kabuli_chr04	13740191	GG	AA	1946793886
SNP_P4_42591_13746894	NC_021163.1	Ca_kabuli_chr04	13746894	TT	CC	1946793888
SNP_P4_42592_13748062	NC_021163.1	Ca_kabuli_chr04	13748062	AA	CC	1946793890
SNP_P4_42593_13748583	NC_021163.1	Ca_kabuli_chr04	13748583	AA	GG	1946793892
SNP_P4_42594_13749516	NC_021163.1	Ca_kabuli_chr04	13749516	AA	CC	1946793894
SNP_P4_42596_13750753	NC_021163.1	Ca_kabuli_chr04	13750753	GG	AA	1946793897
SNP_P4_42598_13751090	NC_021163.1	Ca_kabuli_chr04	13751090	CC	TT	1946793899
SNP_P4_42599_13751107	NC_021163.1	Ca_kabuli_chr04	13751107	AA	GG	1946793901
SNP_P4_42600_13753086	NC_021163.1	Ca_kabuli_chr04	13753086	TT	CC	1946793903
SNP_P4_42601_13753777	NC_021163.1	Ca_kabuli_chr04	13753777	CC	TT	1946793905
SNP_P4_42603_13757791	NC_021163.1	Ca_kabuli_chr04	13757791	AA	CC	1946793907
SNP_P4_42604_13757850	NC_021163.1	Ca_kabuli_chr04	13757850	CC	AA	1946793909
SNP_P4_42606_13758335	NC_021163.1	Ca_kabuli_chr04	13758335	AA	GG	1946793912
SNP_P4_42607_13758459	NC_021163.1	Ca_kabuli_chr04	13758459	CC	TT	1946793914
SNP_P4_42608_13758909	NC_021163.1	Ca_kabuli_chr04	13758909	AA	GG	1946793916
SNP_P4_42609_13759717	NC_021163.1	Ca_kabuli_chr04	13759717	CC	TT	1946793918
SNP_P4_42610_13760326	NC_021163.1	Ca_kabuli_chr04	13760326	CC	TT	1946793920
SNP_P4_42611_13760927	NC_021163.1	Ca_kabuli_chr04	13760927	TT	GG	1946793922
SNP_P4_42612_13761314	NC_021163.1	Ca_kabuli_chr04	13761314	AA	TT	1946793924
SNP_P4_42613_13761511	NC_021163.1	Ca_kabuli_chr04	13761511	AA	GG	1946793926
SNP_P4_42615_13761721	NC_021163.1	Ca_kabuli_chr04	13761721	TT	AA	1946793928
SNP_P4_42616_13761767	NC_021163.1	Ca_kabuli_chr04	13761767	TT	CC	1946793930
SNP_P4_42617_13764379	NC_021163.1	Ca_kabuli_chr04	13764379	AA	GG	1946793932
SNP_P4_42618_13764476	NC_021163.1	Ca_kabuli_chr04	13764476	AA	TT	1946793934
SNP_P4_42619_13765226	NC_021163.1	Ca_kabuli_chr04	13765226	AA	CC	1946793936
SNP_P4_42621_13766508	NC_021163.1	Ca_kabuli_chr04	13766508	CC	GG	1946793938
SNP_P4_42622_13769749	NC_021163.1	Ca_kabuli_chr04	13769749	TT	AA	1946793941
SNP_P4_42623_13769869	NC_021163.1	Ca_kabuli_chr04	13769869	TT	CC	1946793943
SNP_P4_42624_13770030	NC_021163.1	Ca_kabuli_chr04	13770030	AA	CC	1946793945
SNP_P4_42625_13770039	NC_021163.1	Ca_kabuli_chr04	13770039	CC	TT	1946793947
SNP_P4_42626_13770057	NC_021163.1	Ca_kabuli_chr04	13770057	TT	CC	1946793949
SNP_P4_42627_13770062	NC_021163.1	Ca_kabuli_chr04	13770062	AA	GG	1946793951
SNP_P4_42628_13770087	NC_021163.1	Ca_kabuli_chr04	13770087	GG	AA	1946793953
SNP_P4_42629_13770336	NC_021163.1	Ca_kabuli_chr04	13770336	CC	TT	1946793955
SNP_P4_42630_13770337	NC_021163.1	Ca_kabuli_chr04	13770337	GG	AA	1946793957
SNP_P4_42633_13770481	NC_021163.1	Ca_kabuli_chr04	13770481	TT	CC	1946793959
SNP_P4_42634_13770561	NC_021163.1	Ca_kabuli_chr04	13770561	CC	TT	1946793961

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_42636_13770732	NC_021163.1	Ca_kabuli_chr04	13770732	CC	AA	1946793965
SNP_P4_42637_13770748	NC_021163.1	Ca_kabuli_chr04	13770748	CC	TT	1946793967
SNP_P4_42638_13772604	NC_021163.1	Ca_kabuli_chr04	13772604	TT	CC	1946793969
SNP_P4_42639_13772654	NC_021163.1	Ca_kabuli_chr04	13772654	GG	AA	1946793971
SNP_P4_42640_13773160	NC_021163.1	Ca_kabuli_chr04	13773160	AA	TT	1946793973
SNP_P4_42641_13773823	NC_021163.1	Ca_kabuli_chr04	13773823	TT	AA	1946793975
SNP_P4_42642_13773829	NC_021163.1	Ca_kabuli_chr04	13773829	AA	GG	1946793977
SNP_P4_42643_13773881	NC_021163.1	Ca_kabuli_chr04	13773881	TT	GG	1946793979
SNP_P4_42644_13774151	NC_021163.1	Ca_kabuli_chr04	13774151	AA	GG	1946793981
SNP_P4_42645_13774214	NC_021163.1	Ca_kabuli_chr04	13774214	GG	AA	1946793983
SNP_P4_42646_13775087	NC_021163.1	Ca_kabuli_chr04	13775087	TT	GG	1946793985
SNP_P4_42647_13776474	NC_021163.1	Ca_kabuli_chr04	13776474	GG	AA	1946793987
SNP_P4_42648_13777039	NC_021163.1	Ca_kabuli_chr04	13777039	TT	CC	1946793989
SNP_P4_42649_13777040	NC_021163.1	Ca_kabuli_chr04	13777040	GG	TT	1946793991
SNP_P4_42650_13777058	NC_021163.1	Ca_kabuli_chr04	13777058	CC	TT	1946793993
SNP_P4_42651_13777081	NC_021163.1	Ca_kabuli_chr04	13777081	CC	GG	1946793995
SNP_P4_42652_13777083	NC_021163.1	Ca_kabuli_chr04	13777083	CC	TT	1946793997
SNP_P4_42653_13780146	NC_021163.1	Ca_kabuli_chr04	13780146	CC	GG	1946794000
SNP_P4_42655_13783024	NC_021163.1	Ca_kabuli_chr04	13783024	CC	AA	1946794002
SNP_P4_42656_13783386	NC_021163.1	Ca_kabuli_chr04	13783386	AA	GG	1946794004
SNP_P4_42657_13785316	NC_021163.1	Ca_kabuli_chr04	13785316	TT	AA	1946794007
SNP_P4_42659_13787353	NC_021163.1	Ca_kabuli_chr04	13787353	TT	CC	1946794009
SNP_P4_42660_13787448	NC_021163.1	Ca_kabuli_chr04	13787448	AA	CC	1946794012
SNP_P4_42661_13788136	NC_021163.1	Ca_kabuli_chr04	13788136	AA	TT	1946794014
SNP_P4_42662_13788437	NC_021163.1	Ca_kabuli_chr04	13788437	GG	AA	1946794016
SNP_P4_42663_13788464	NC_021163.1	Ca_kabuli_chr04	13788464	CC	TT	1946794018
SNP_P4_42665_13788491	NC_021163.1	Ca_kabuli_chr04	13788491	CC	AA	1946794020
SNP_P4_42666_13788535	NC_021163.1	Ca_kabuli_chr04	13788535	CC	TT	1946794022
SNP_P4_42667_13788537	NC_021163.1	Ca_kabuli_chr04	13788537	AA	GG	1946794024
SNP_P4_42668_13788582	NC_021163.1	Ca_kabuli_chr04	13788582	GG	AA	1946794027
SNP_P4_42669_13788659	NC_021163.1	Ca_kabuli_chr04	13788659	GG	AA	1946794028
SNP_P4_42671_13788862	NC_021163.1	Ca_kabuli_chr04	13788862	GG	AA	1946794029
SNP_P4_42672_13788916	NC_021163.1	Ca_kabuli_chr04	13788916	TT	CC	1946794030
SNP_P4_42673_13789114	NC_021163.1	Ca_kabuli_chr04	13789114	AA	CC	1946794032
SNP_P4_42674_13789126	NC_021163.1	Ca_kabuli_chr04	13789126	AA	GG	1946794034
SNP_P4_42676_13789170	NC_021163.1	Ca_kabuli_chr04	13789170	CC	GG	1946794037
SNP_P4_42677_13789658	NC_021163.1	Ca_kabuli_chr04	13789658	AA	GG	1946794039
SNP_P4_42678_13789662	NC_021163.1	Ca_kabuli_chr04	13789662	AA	TT	1946794041
SNP_P4_42679_13789667	NC_021163.1	Ca_kabuli_chr04	13789667	CC	TT	1946794043
SNP_P4_42680_13790820	NC_021163.1	Ca_kabuli_chr04	13790820	AA	TT	1946794045
SNP_P4_42681_13790838	NC_021163.1	Ca_kabuli_chr04	13790838	TT	CC	1946794047

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_42683_13791003	NC_021163.1	Ca_kabuli_chr04	13791003	CC	TT	1946794052
SNP_P4_42684_13791061	NC_021163.1	Ca_kabuli_chr04	13791061	GG	CC	1946794054
SNP_P4_42685_13791158	NC_021163.1	Ca_kabuli_chr04	13791158	GG	CC	1946794056
SNP_P4_42686_13792065	NC_021163.1	Ca_kabuli_chr04	13792065	CC	TT	1946794058
SNP_P4_42687_13792099	NC_021163.1	Ca_kabuli_chr04	13792099	TT	GG	1946794060
SNP_P4_42688_13792105	NC_021163.1	Ca_kabuli_chr04	13792105	TT	CC	1946794062
SNP_P4_42691_13794382	NC_021163.1	Ca_kabuli_chr04	13794382	TT	AA	1946794065
SNP_P4_42692_13794387	NC_021163.1	Ca_kabuli_chr04	13794387	TT	GG	1946794067
SNP_P4_42693_13794408	NC_021163.1	Ca_kabuli_chr04	13794408	AA	TT	1946794069
SNP_P4_42694_13794445	NC_021163.1	Ca_kabuli_chr04	13794445	TT	AA	1946794071
SNP_P4_42696_13796045	NC_021163.1	Ca_kabuli_chr04	13796045	AA	CC	1946794073
SNP_P4_42697_13796262	NC_021163.1	Ca_kabuli_chr04	13796262	CC	TT	1946794075
SNP_P4_42698_13796391	NC_021163.1	Ca_kabuli_chr04	13796391	GG	TT	1946794077
SNP_P4_42699_13796396	NC_021163.1	Ca_kabuli_chr04	13796396	CC	AA	1946794079
SNP_P4_42702_13799886	NC_021163.1	Ca_kabuli_chr04	13799886	AA	CC	1946794081
SNP_P4_42703_13799918	NC_021163.1	Ca_kabuli_chr04	13799918	TT	AA	1946794083
SNP_P4_42704_13800584	NC_021163.1	Ca_kabuli_chr04	13800584	CC	AA	1946794086
SNP_P4_42705_13800614	NC_021163.1	Ca_kabuli_chr04	13800614	CC	AA	1946794088
SNP_P4_42706_13802051	NC_021163.1	Ca_kabuli_chr04	13802051	CC	TT	1946794090
SNP_P4_42707_13802081	NC_021163.1	Ca_kabuli_chr04	13802081	CC	TT	1946794092
SNP_P4_42708_13802126	NC_021163.1	Ca_kabuli_chr04	13802126	AA	CC	1946794095
SNP_P4_42709_13802218	NC_021163.1	Ca_kabuli_chr04	13802218	TT	GG	1946794097
SNP_P4_42710_13802223	NC_021163.1	Ca_kabuli_chr04	13802223	CC	TT	1946794099
SNP_P4_42711_13803376	NC_021163.1	Ca_kabuli_chr04	13803376	CC	GG	1946794101
SNP_P4_42712_13803955	NC_021163.1	Ca_kabuli_chr04	13803955	GG	TT	1946794103
SNP_P4_42713_13805873	NC_021163.1	Ca_kabuli_chr04	13805873	TT	AA	1946794106
SNP_P4_42714_13806386	NC_021163.1	Ca_kabuli_chr04	13806386	CC	AA	1946794108
SNP_P4_42715_13806387	NC_021163.1	Ca_kabuli_chr04	13806387	CC	AA	1946794110
SNP_P4_42716_13806496	NC_021163.1	Ca_kabuli_chr04	13806496	GG	AA	1946794112
SNP_P4_42718_13808420	NC_021163.1	Ca_kabuli_chr04	13808420	TT	CC	1946794114
SNP_P4_42719_13808436	NC_021163.1	Ca_kabuli_chr04	13808436	AA	GG	1946794116
SNP_P4_42720_13808642	NC_021163.1	Ca_kabuli_chr04	13808642	AA	CC	1946794118
SNP_P4_42721_13808676	NC_021163.1	Ca_kabuli_chr04	13808676	AA	TT	1946794120
SNP_P4_42723_13809534	NC_021163.1	Ca_kabuli_chr04	13809534	CC	TT	1946794122
SNP_P4_42725_13809805	NC_021163.1	Ca_kabuli_chr04	13809805	GG	CC	1946794124
SNP_P4_42726_13810190	NC_021163.1	Ca_kabuli_chr04	13810190	TT	CC	1946794126
SNP_P4_42727_13811372	NC_021163.1	Ca_kabuli_chr04	13811372	AA	GG	1946794128
SNP_P4_42728_13811377	NC_021163.1	Ca_kabuli_chr04	13811377	GG	AA	1946794130
SNP_P4_42729_13811378	NC_021163.1	Ca_kabuli_chr04	13811378	TT	CC	1946794132
SNP_P4_42730_13811387	NC_021163.1	Ca_kabuli_chr04	13811387	TT	CC	1946794134
SNP_P4_42731_13811403	NC_021163.1	Ca_kabuli_chr04	13811403	TT	CC	1946794136

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_42733_13811580	NC_021163.1	Ca_kabuli_chr04	13811580	CC	AA	1946794140
SNP_P4_42734_13812585	NC_021163.1	Ca_kabuli_chr04	13812585	TT	GG	1946794142
SNP_P4_42735_13812649	NC_021163.1	Ca_kabuli_chr04	13812649	AA	CC	1946794144
SNP_P4_42736_13812739	NC_021163.1	Ca_kabuli_chr04	13812739	CC	TT	1946794147
SNP_P4_42737_13812751	NC_021163.1	Ca_kabuli_chr04	13812751	TT	CC	1946794149
SNP_P4_42738_13812814	NC_021163.1	Ca_kabuli_chr04	13812814	GG	CC	1946794151
SNP_P4_42739_13812920	NC_021163.1	Ca_kabuli_chr04	13812920	GG	AA	1946794153
SNP_P4_42740_13812928	NC_021163.1	Ca_kabuli_chr04	13812928	CC	TT	1946794155
SNP_P4_42741_13812937	NC_021163.1	Ca_kabuli_chr04	13812937	GG	AA	1946794157
SNP_P4_42742_13813018	NC_021163.1	Ca_kabuli_chr04	13813018	GG	AA	1946794159
SNP_P4_42743_13813039	NC_021163.1	Ca_kabuli_chr04	13813039	GG	AA	1946794162
SNP_P4_42745_13815377	NC_021163.1	Ca_kabuli_chr04	13815377	CC	GG	1946794164
SNP_P4_42746_13815413	NC_021163.1	Ca_kabuli_chr04	13815413	TT	AA	1946794166
SNP_P4_42747_13815444	NC_021163.1	Ca_kabuli_chr04	13815444	TT	CC	1946794168
SNP_P4_42748_13815446	NC_021163.1	Ca_kabuli_chr04	13815446	GG	AA	1946794170
SNP_P4_42749_13815467	NC_021163.1	Ca_kabuli_chr04	13815467	CC	AA	1946794173
SNP_P4_42750_13815497	NC_021163.1	Ca_kabuli_chr04	13815497	CC	TT	1946794175
SNP_P4_42751_13815827	NC_021163.1	Ca_kabuli_chr04	13815827	GG	AA	1946794177
SNP_P4_42752_13816112	NC_021163.1	Ca_kabuli_chr04	13816112	CC	TT	1946794179
SNP_P4_42753_13816115	NC_021163.1	Ca_kabuli_chr04	13816115	GG	AA	1946794181
SNP_P4_42754_13816239	NC_021163.1	Ca_kabuli_chr04	13816239	AA	CC	1946794184
SNP_P4_42755_13816286	NC_021163.1	Ca_kabuli_chr04	13816286	CC	TT	1946794186
SNP_P4_42756_13816289	NC_021163.1	Ca_kabuli_chr04	13816289	TT	CC	1946794188
SNP_P4_42757_13816563	NC_021163.1	Ca_kabuli_chr04	13816563	AA	GG	1946794190
SNP_P4_42758_13816588	NC_021163.1	Ca_kabuli_chr04	13816588	AA	CC	1946794192
SNP_P4_42759_13816594	NC_021163.1	Ca_kabuli_chr04	13816594	CC	TT	1946794194
SNP_P4_42760_13816771	NC_021163.1	Ca_kabuli_chr04	13816771	AA	CC	1946794196
SNP_P4_42761_13816772	NC_021163.1	Ca_kabuli_chr04	13816772	TT	GG	1946794198
SNP_P4_42762_13818041	NC_021163.1	Ca_kabuli_chr04	13818041	GG	AA	1946794200
SNP_P4_42763_13820543	NC_021163.1	Ca_kabuli_chr04	13820543	CC	GG	1946794202
SNP_P4_42764_13822628	NC_021163.1	Ca_kabuli_chr04	13822628	AA	TT	1946794205
SNP_P4_42766_13822995	NC_021163.1	Ca_kabuli_chr04	13822995	AA	GG	1946794207
SNP_P4_42767_13825357	NC_021163.1	Ca_kabuli_chr04	13825357	TT	GG	1946794209
SNP_P4_42768_13825358	NC_021163.1	Ca_kabuli_chr04	13825358	AA	GG	1946794211
SNP_P4_42769_13825423	NC_021163.1	Ca_kabuli_chr04	13825423	CC	AA	1946794213
SNP_P4_42770_13825451	NC_021163.1	Ca_kabuli_chr04	13825451	GG	AA	1946794215
SNP_P4_42771_13825706	NC_021163.1	Ca_kabuli_chr04	13825706	TT	CC	1946794218
SNP_P4_42772_13825763	NC_021163.1	Ca_kabuli_chr04	13825763	TT	CC	1946794220
SNP_P4_42773_13825787	NC_021163.1	Ca_kabuli_chr04	13825787	GG	AA	1946794222
SNP_P4_42774_13826044	NC_021163.1	Ca_kabuli_chr04	13826044	GG	AA	1946794224
SNP_P4_42775_13826091	NC_021163.1	Ca_kabuli_chr04	13826091	CC	TT	1946794226

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_42778_13826378	NC_021163.1	Ca_kabuli_chr04	13826378	CC	TT	1946794230
SNP_P4_42779_13826386	NC_021163.1	Ca_kabuli_chr04	13826386	GG	AA	1946794232
SNP_P4_42780_13826597	NC_021163.1	Ca_kabuli_chr04	13826597	AA	GG	1946794234
SNP_P4_42781_13826626	NC_021163.1	Ca_kabuli_chr04	13826626	GG	AA	1946794236
SNP_P4_42782_13827061	NC_021163.1	Ca_kabuli_chr04	13827061	GG	AA	1946794238
SNP_P4_42783_13827243	NC_021163.1	Ca_kabuli_chr04	13827243	CC	TT	1946794240
SNP_P4_42785_13828284	NC_021163.1	Ca_kabuli_chr04	13828284	AA	GG	1946794242
SNP_P4_42786_13828442	NC_021163.1	Ca_kabuli_chr04	13828442	CC	TT	1946794244
SNP_P4_42787_13829293	NC_021163.1	Ca_kabuli_chr04	13829293	CC	AA	1946794247
SNP_P4_42788_13829438	NC_021163.1	Ca_kabuli_chr04	13829438	GG	AA	1946794249
SNP_P4_42789_13829446	NC_021163.1	Ca_kabuli_chr04	13829446	AA	GG	1946794251
SNP_P4_42791_13829811	NC_021163.1	Ca_kabuli_chr04	13829811	TT	GG	1946794253
SNP_P4_42792_13829822	NC_021163.1	Ca_kabuli_chr04	13829822	AA	GG	1946794255
SNP_P4_42793_13829991	NC_021163.1	Ca_kabuli_chr04	13829991	TT	GG	1946794257
SNP_P4_42794_13830031	NC_021163.1	Ca_kabuli_chr04	13830031	TT	CC	1946794259
SNP_P4_42795_13830153	NC_021163.1	Ca_kabuli_chr04	13830153	AA	GG	1946794261
SNP_P4_42797_13830262	NC_021163.1	Ca_kabuli_chr04	13830262	AA	GG	1946794263
SNP_P4_42798_13830333	NC_021163.1	Ca_kabuli_chr04	13830333	CC	TT	1946794265
SNP_P4_42799_13830568	NC_021163.1	Ca_kabuli_chr04	13830568	GG	AA	1946794267
SNP_P4_42800_13830584	NC_021163.1	Ca_kabuli_chr04	13830584	TT	CC	1946794269
SNP_P4_42801_13830585	NC_021163.1	Ca_kabuli_chr04	13830585	CC	TT	1946794271
SNP_P4_42802_13830590	NC_021163.1	Ca_kabuli_chr04	13830590	AA	GG	1946794273
SNP_P4_42803_13830593	NC_021163.1	Ca_kabuli_chr04	13830593	AA	GG	1946794275
SNP_P4_42804_13831063	NC_021163.1	Ca_kabuli_chr04	13831063	CC	TT	1946794277
SNP_P4_42805_13831230	NC_021163.1	Ca_kabuli_chr04	13831230	TT	AA	1946794280
SNP_P4_42806_13831332	NC_021163.1	Ca_kabuli_chr04	13831332	TT	CC	1946794282
SNP_P4_42807_13831337	NC_021163.1	Ca_kabuli_chr04	13831337	GG	AA	1946794284
SNP_P4_42808_13831357	NC_021163.1	Ca_kabuli_chr04	13831357	GG	CC	1946794286
SNP_P4_42810_13831576	NC_021163.1	Ca_kabuli_chr04	13831576	TT	AA	1946794288
SNP_P4_42811_13831836	NC_021163.1	Ca_kabuli_chr04	13831836	AA	TT	1946794290
SNP_P4_42812_13831867	NC_021163.1	Ca_kabuli_chr04	13831867	CC	AA	1946794292
SNP_P4_42813_13831875	NC_021163.1	Ca_kabuli_chr04	13831875	CC	AA	1946794294
SNP_P4_42814_13831889	NC_021163.1	Ca_kabuli_chr04	13831889	CC	AA	1946794296
SNP_P4_42815_13832258	NC_021163.1	Ca_kabuli_chr04	13832258	AA	TT	1946794298
SNP_P4_42816_13832379	NC_021163.1	Ca_kabuli_chr04	13832379	TT	AA	1946794300
SNP_P4_42817_13832380	NC_021163.1	Ca_kabuli_chr04	13832380	GG	AA	1946794302
SNP_P4_42818_13832416	NC_021163.1	Ca_kabuli_chr04	13832416	CC	GG	1946794304
SNP_P4_42819_13832425	NC_021163.1	Ca_kabuli_chr04	13832425	TT	CC	1946794306
SNP_P4_42820_13832443	NC_021163.1	Ca_kabuli_chr04	13832443	TT	CC	1946794308
SNP_P4_42821_13833816	NC_021163.1	Ca_kabuli_chr04	13833816	AA	GG	1946794310
SNP_P4_42822_13834065	NC_021163.1	Ca_kabuli_chr04	13834065	TT	CC	1946794312

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_42825_13836146	NC_021163.1	Ca_kabuli_chr04	13836146	GG	TT	1946794316
SNP_P4_42826_13841279	NC_021163.1	Ca_kabuli_chr04	13841279	CC	AA	1946794318
SNP_P4_42827_13841340	NC_021163.1	Ca_kabuli_chr04	13841340	GG	TT	1946794320
SNP_P4_42828_13845235	NC_021163.1	Ca_kabuli_chr04	13845235	GG	TT	1946794322
SNP_P4_42829_13845260	NC_021163.1	Ca_kabuli_chr04	13845260	AA	CC	1946794325
SNP_P4_42830_13845846	NC_021163.1	Ca_kabuli_chr04	13845846	TT	GG	1946794327
SNP_P4_42831_13846717	NC_021163.1	Ca_kabuli_chr04	13846717	GG	AA	1946794329
SNP_P4_42832_13846775	NC_021163.1	Ca_kabuli_chr04	13846775	CC	AA	1946794331
SNP_P4_42833_13846790	NC_021163.1	Ca_kabuli_chr04	13846790	AA	GG	1946794333
SNP_P4_42834_13846814	NC_021163.1	Ca_kabuli_chr04	13846814	GG	AA	1946794335
SNP_P4_42835_13846820	NC_021163.1	Ca_kabuli_chr04	13846820	TT	GG	1946794337
SNP_P4_42836_13846834	NC_021163.1	Ca_kabuli_chr04	13846834	GG	TT	1946794339
SNP_P4_42837_13846848	NC_021163.1	Ca_kabuli_chr04	13846848	AA	TT	1946794342
SNP_P4_42838_13846867	NC_021163.1	Ca_kabuli_chr04	13846867	GG	AA	1946794344
SNP_P4_42839_13846929	NC_021163.1	Ca_kabuli_chr04	13846929	AA	CC	1946794346
SNP_P4_42840_13846973	NC_021163.1	Ca_kabuli_chr04	13846973	AA	CC	1946794348
SNP_P4_42841_13846991	NC_021163.1	Ca_kabuli_chr04	13846991	GG	AA	1946794350
SNP_P4_42842_13847234	NC_021163.1	Ca_kabuli_chr04	13847234	CC	AA	1946794353
SNP_P4_42843_13847263	NC_021163.1	Ca_kabuli_chr04	13847263	AA	TT	1946794355
SNP_P4_42844_13847610	NC_021163.1	Ca_kabuli_chr04	13847610	TT	GG	1946794357
SNP_P4_42845_13847628	NC_021163.1	Ca_kabuli_chr04	13847628	TT	CC	1946794359
SNP_P4_42847_13847702	NC_021163.1	Ca_kabuli_chr04	13847702	TT	CC	1946794361
SNP_P4_42848_13848369	NC_021163.1	Ca_kabuli_chr04	13848369	TT	CC	1946794363
SNP_P4_42849_13848404	NC_021163.1	Ca_kabuli_chr04	13848404	AA	TT	1946794366
SNP_P4_42850_13848406	NC_021163.1	Ca_kabuli_chr04	13848406	CC	TT	1946794368
SNP_P4_42852_13850868	NC_021163.1	Ca_kabuli_chr04	13850868	TT	CC	1946794370
SNP_P4_42853_13851248	NC_021163.1	Ca_kabuli_chr04	13851248	AA	TT	1946794372
SNP_P4_42854_13851257	NC_021163.1	Ca_kabuli_chr04	13851257	TT	AA	1946794374
SNP_P4_42855_13851638	NC_021163.1	Ca_kabuli_chr04	13851638	AA	CC	1946794376
SNP_P4_42856_13852082	NC_021163.1	Ca_kabuli_chr04	13852082	CC	TT	1946794378
SNP_P4_42858_13852471	NC_021163.1	Ca_kabuli_chr04	13852471	CC	AA	1946794380
SNP_P4_42859_13853196	NC_021163.1	Ca_kabuli_chr04	13853196	GG	AA	1946794382
SNP_P4_42861_13853512	NC_021163.1	Ca_kabuli_chr04	13853512	AA	TT	1946794384
SNP_P4_42862_13853558	NC_021163.1	Ca_kabuli_chr04	13853558	TT	CC	1946794387
SNP_P4_42864_13853589	NC_021163.1	Ca_kabuli_chr04	13853589	AA	GG	1946794389
SNP_P4_42865_13853831	NC_021163.1	Ca_kabuli_chr04	13853831	GG	AA	1946794391
SNP_P4_42866_13854044	NC_021163.1	Ca_kabuli_chr04	13854044	AA	GG	1946794393
SNP_P4_42868_13854207	NC_021163.1	Ca_kabuli_chr04	13854207	CC	TT	1946794395
SNP_P4_42869_13854366	NC_021163.1	Ca_kabuli_chr04	13854366	AA	GG	1946794397
SNP_P4_42870_13855734	NC_021163.1	Ca_kabuli_chr04	13855734	CC	TT	1946794399
SNP_P4_42871_13856347	NC_021163.1	Ca_kabuli_chr04	13856347	GG	AA	1946794401

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_42875_13856730	NC_021163.1	Ca_kabuli_chr04	13856730	CC	TT	1946794407
SNP_P4_42876_13857453	NC_021163.1	Ca_kabuli_chr04	13857453	GG	TT	1946794409
SNP_P4_42877_13857515	NC_021163.1	Ca_kabuli_chr04	13857515	GG	AA	1946794411
SNP_P4_42878_13857602	NC_021163.1	Ca_kabuli_chr04	13857602	TT	CC	1946794413
SNP_P4_42879_13858089	NC_021163.1	Ca_kabuli_chr04	13858089	TT	CC	1946794416
SNP_P4_42880_13858097	NC_021163.1	Ca_kabuli_chr04	13858097	AA	TT	1946794418
SNP_P4_42881_13858113	NC_021163.1	Ca_kabuli_chr04	13858113	AA	GG	1946794420
SNP_P4_42882_13858972	NC_021163.1	Ca_kabuli_chr04	13858972	AA	GG	1946794422
SNP_P4_42883_13860259	NC_021163.1	Ca_kabuli_chr04	13860259	GG	AA	1946794424
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SNP_P4_42885_13861136	NC_021163.1	Ca_kabuli_chr04	13861136	GG	AA	1946794428
SNP_P4_42886_13861957	NC_021163.1	Ca_kabuli_chr04	13861957	GG	AA	1946794430
SNP_P4_42887_13862003	NC_021163.1	Ca_kabuli_chr04	13862003	GG	AA	1946794432
SNP_P4_42888_13862085	NC_021163.1	Ca_kabuli_chr04	13862085	GG	AA	1946794434
SNP_P4_42889_13862361	NC_021163.1	Ca_kabuli_chr04	13862361	TT	AA	1946794436
SNP_P4_42890_13862362	NC_021163.1	Ca_kabuli_chr04	13862362	TT	AA	1946794438
SNP_P4_42891_13862620	NC_021163.1	Ca_kabuli_chr04	13862620	AA	GG	1946794440
SNP_P4_42892_13862675	NC_021163.1	Ca_kabuli_chr04	13862675	TT	AA	1946794442
SNP_P4_42893_13862678	NC_021163.1	Ca_kabuli_chr04	13862678	CC	TT	1946794444
SNP_P4_42894_13862688	NC_021163.1	Ca_kabuli_chr04	13862688	AA	TT	1946794446
SNP_P4_42895_13863075	NC_021163.1	Ca_kabuli_chr04	13863075	CC	GG	1946794448
SNP_P4_42896_13864883	NC_021163.1	Ca_kabuli_chr04	13864883	TT	AA	1946794450
SNP_P4_42897_13865164	NC_021163.1	Ca_kabuli_chr04	13865164	CC	TT	1946794452
SNP_P4_42898_13865179	NC_021163.1	Ca_kabuli_chr04	13865179	TT	CC	1946794454
SNP_P4_42899_13865474	NC_021163.1	Ca_kabuli_chr04	13865474	AA	TT	1946794456
SNP_P4_42901_13865858	NC_021163.1	Ca_kabuli_chr04	13865858	CC	TT	1946794458
SNP_P4_42903_13865888	NC_021163.1	Ca_kabuli_chr04	13865888	CC	TT	1946794460
SNP_P4_42904_13865889	NC_021163.1	Ca_kabuli_chr04	13865889	CC	TT	1946794462
SNP_P4_42905_13865969	NC_021163.1	Ca_kabuli_chr04	13865969	AA	GG	1946794464
SNP_P4_42906_13866085	NC_021163.1	Ca_kabuli_chr04	13866085	AA	GG	1946794466
SNP_P4_42907_13866882	NC_021163.1	Ca_kabuli_chr04	13866882	GG	AA	1946794468
SNP_P4_42908_13867195	NC_021163.1	Ca_kabuli_chr04	13867195	AA	GG	1946794470
SNP_P4_42909_13869114	NC_021163.1	Ca_kabuli_chr04	13869114	TT	GG	1946794472
SNP_P4_42910_13907751	NC_021163.1	Ca_kabuli_chr04	13907751	GG	AA	1946794474
SNP_P4_42911_13908395	NC_021163.1	Ca_kabuli_chr04	13908395	GG	AA	1946794476
SNP_P4_42913_13908749	NC_021163.1	Ca_kabuli_chr04	13908749	GG	AA	1946794478
SNP_P4_42914_13908798	NC_021163.1	Ca_kabuli_chr04	13908798	GG	AA	1946794480
SNP_P4_42915_13908943	NC_021163.1	Ca_kabuli_chr04	13908943	AA	GG	1946794482
SNP_P4_42916_13908979	NC_021163.1	Ca_kabuli_chr04	13908979	GG	TT	1946794485
SNP_P4_42917_13909130	NC_021163.1	Ca_kabuli_chr04	13909130	TT	CC	1946794487

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SNP_P4_42920_13909307	NC_021163.1	Ca_kabuli_chr04	13909307	GG	AA	1946794491
SNP_P4_42921_13911299	NC_021163.1	Ca_kabuli_chr04	13911299	TT	CC	1946794493
SNP_P4_42922_13912327	NC_021163.1	Ca_kabuli_chr04	13912327	AA	GG	1946794495
SNP_P4_42923_13917650	NC_021163.1	Ca_kabuli_chr04	13917650	CC	TT	1946794497
SNP_P4_42924_13946266	NC_021163.1	Ca_kabuli_chr04	13946266	CC	TT	1946794499
SNP_P4_42925_13946602	NC_021163.1	Ca_kabuli_chr04	13946602	GG	AA	1946794501
SNP_P4_42926_13962641	NC_021163.1	Ca_kabuli_chr04	13962641	TT	GG	1946794503
SNP_P4_42927_13962644	NC_021163.1	Ca_kabuli_chr04	13962644	AA	GG	1946794505
SNP_P4_42929_14043021	NC_021163.1	Ca_kabuli_chr04	14043021	CC	TT	1946794507
SNP_P4_42930_14061829	NC_021163.1	Ca_kabuli_chr04	14061829	AA	GG	1946794510
SNP_P4_42932_14108091	NC_021163.1	Ca_kabuli_chr04	14108091	AA	TT	1946794512
SNP_P4_42933_14111779	NC_021163.1	Ca_kabuli_chr04	14111779	AA	CC	1946794514
SNP_P4_42934_14141768	NC_021163.1	Ca_kabuli_chr04	14141768	AA	GG	1946794516
SNP_P4_42935_14159448	NC_021163.1	Ca_kabuli_chr04	14159448	CC	TT	1946794518
SNP_P4_42936_14180446	NC_021163.1	Ca_kabuli_chr04	14180446	GG	TT	1946794520
SNP_P4_42938_14188181	NC_021163.1	Ca_kabuli_chr04	14188181	AA	GG	1946794523
SNP_P4_42939_14204997	NC_021163.1	Ca_kabuli_chr04	14204997	AA	TT	1946794525
SNP_P4_42940_14205449	NC_021163.1	Ca_kabuli_chr04	14205449	GG	AA	1946794527
SNP_P4_42941_14205490	NC_021163.1	Ca_kabuli_chr04	14205490	TT	CC	1946794529
SNP_P4_42942_14205510	NC_021163.1	Ca_kabuli_chr04	14205510	TT	CC	1946794531
SNP_P4_42943_14205511	NC_021163.1	Ca_kabuli_chr04	14205511	AA	GG	1946794533
SNP_P4_42944_14221691	NC_021163.1	Ca_kabuli_chr04	14221691	TT	GG	1946794535
SNP_P4_42945_14224321	NC_021163.1	Ca_kabuli_chr04	14224321	AA	TT	1946794537
SNP_P4_42946_14235417	NC_021163.1	Ca_kabuli_chr04	14235417	TT	CC	1946794539
SNP_P4_42947_14248703	NC_021163.1	Ca_kabuli_chr04	14248703	CC	TT	1946794541
SNP_P4_42948_14260276	NC_021163.1	Ca_kabuli_chr04	14260276	TT	GG	1946794543
SNP_P4_42949_14260354	NC_021163.1	Ca_kabuli_chr04	14260354	TT	CC	1946794545
SNP_P4_42950_14260581	NC_021163.1	Ca_kabuli_chr04	14260581	AA	GG	1946794547
SNP_P4_42951_14260607	NC_021163.1	Ca_kabuli_chr04	14260607	GG	AA	1946794549
SNP_P4_42952_14260648	NC_021163.1	Ca_kabuli_chr04	14260648	GG	AA	1946794551
SNP_P4_42953_14264894	NC_021163.1	Ca_kabuli_chr04	14264894	GG	TT	1946794553
SNP_P4_42954_14271489	NC_021163.1	Ca_kabuli_chr04	14271489	TT	AA	1946794555
SNP_P4_42955_14271531	NC_021163.1	Ca_kabuli_chr04	14271531	TT	CC	1946794557
SNP_P4_42957_14297414	NC_021163.1	Ca_kabuli_chr04	14297414	CC	TT	1946794559
SNP_P4_42958_14308963	NC_021163.1	Ca_kabuli_chr04	14308963	GG	AA	1946794561
SNP_P4_42959_14329783	NC_021163.1	Ca_kabuli_chr04	14329783	GG	AA	1946794564
SNP_P4_42960_14329853	NC_021163.1	Ca_kabuli_chr04	14329853	AA	GG	1946794566
SNP_P4_42961_14329858	NC_021163.1	Ca_kabuli_chr04	14329858	CC	GG	1946794568
SNP_P4_42962_14329863	NC_021163.1	Ca_kabuli_chr04	14329863	TT	CC	1946794570
SNP_P4_42963_14329884	NC_021163.1	Ca_kabuli_chr04	14329884	AA	GG	1946794572
SNP_P4_42964_14329941	NC_021163.1	Ca_kabuli_chr04	14329941	TT	CC	1946794574

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_42966_14330013	NC_021163.1	Ca_kabuli_chr04	14330013	TT	CC	1946794578
SNP_P4_42967_14330037	NC_021163.1	Ca_kabuli_chr04	14330037	TT	CC	1946794580
SNP_P4_42968_14330178	NC_021163.1	Ca_kabuli_chr04	14330178	TT	CC	1946794582
SNP_P4_42969_14330332	NC_021163.1	Ca_kabuli_chr04	14330332	AA	GG	1946794584
SNP_P4_42970_14330355	NC_021163.1	Ca_kabuli_chr04	14330355	AA	TT	1946794586
SNP_P4_42972_14385105	NC_021163.1	Ca_kabuli_chr04	14385105	AA	GG	1946794588
SNP_P4_42973_14392703	NC_021163.1	Ca_kabuli_chr04	14392703	AA	GG	1946794590
SNP_P4_42974_14392721	NC_021163.1	Ca_kabuli_chr04	14392721	TT	GG	1946794592
SNP_P4_42975_14392822	NC_021163.1	Ca_kabuli_chr04	14392822	AA	CC	1946794594
SNP_P4_42978_14397207	NC_021163.1	Ca_kabuli_chr04	14397207	TT	CC	1946794596
SNP_P4_42979_14397224	NC_021163.1	Ca_kabuli_chr04	14397224	GG	AA	1946794598
SNP_P4_42981_14397378	NC_021163.1	Ca_kabuli_chr04	14397378	TT	CC	1946794600
SNP_P4_42982_14397425	NC_021163.1	Ca_kabuli_chr04	14397425	AA	GG	1946794602
SNP_P4_42983_14397507	NC_021163.1	Ca_kabuli_chr04	14397507	AA	CC	1946794604
SNP_P4_42984_14397520	NC_021163.1	Ca_kabuli_chr04	14397520	GG	AA	1946794606
SNP_P4_42985_14397570	NC_021163.1	Ca_kabuli_chr04	14397570	GG	AA	1946794608
SNP_P4_42986_14397591	NC_021163.1	Ca_kabuli_chr04	14397591	CC	TT	1946794610
SNP_P4_42988_14398704	NC_021163.1	Ca_kabuli_chr04	14398704	TT	CC	1946794612
SNP_P4_42989_14398726	NC_021163.1	Ca_kabuli_chr04	14398726	AA	GG	1946794614
SNP_P4_42990_14399029	NC_021163.1	Ca_kabuli_chr04	14399029	TT	CC	1946794616
SNP_P4_42991_14399086	NC_021163.1	Ca_kabuli_chr04	14399086	TT	CC	1946794618
SNP_P4_42992_14399137	NC_021163.1	Ca_kabuli_chr04	14399137	AA	GG	1946794620
SNP_P4_42993_14399150	NC_021163.1	Ca_kabuli_chr04	14399150	TT	GG	1946794622
SNP_P4_42994_14399444	NC_021163.1	Ca_kabuli_chr04	14399444	TT	GG	1946794624
SNP_P4_42995_14403108	NC_021163.1	Ca_kabuli_chr04	14403108	CC	TT	1946794626
SNP_P4_42996_14405509	NC_021163.1	Ca_kabuli_chr04	14405509	CC	TT	1946794628
SNP_P4_42997_14405514	NC_021163.1	Ca_kabuli_chr04	14405514	TT	GG	1946794630
SNP_P4_42998_14405577	NC_021163.1	Ca_kabuli_chr04	14405577	AA	GG	1946794632
SNP_P4_42999_14405593	NC_021163.1	Ca_kabuli_chr04	14405593	GG	TT	1946794634
SNP_P4_43000_14405603	NC_021163.1	Ca_kabuli_chr04	14405603	AA	TT	1946794636
SNP_P4_43002_14405699	NC_021163.1	Ca_kabuli_chr04	14405699	GG	TT	1946794638
SNP_P4_43003_14405707	NC_021163.1	Ca_kabuli_chr04	14405707	CC	TT	1946794640
SNP_P4_43004_14405722	NC_021163.1	Ca_kabuli_chr04	14405722	GG	AA	1946794642
SNP_P4_43006_14405819	NC_021163.1	Ca_kabuli_chr04	14405819	AA	GG	1946794644
SNP_P4_43007_14405826	NC_021163.1	Ca_kabuli_chr04	14405826	CC	TT	1946794647
SNP_P4_43008_14405834	NC_021163.1	Ca_kabuli_chr04	14405834	TT	CC	1946794649
SNP_P4_43009_14405862	NC_021163.1	Ca_kabuli_chr04	14405862	GG	AA	1946794651
SNP_P4_43010_14405865	NC_021163.1	Ca_kabuli_chr04	14405865	GG	CC	1946794653
SNP_P4_43011_14406021	NC_021163.1	Ca_kabuli_chr04	14406021	AA	TT	1946794655
SNP_P4_43013_14406059	NC_021163.1	Ca_kabuli_chr04	14406059	TT	AA	1946794657
SNP_P4_43014_14406071	NC_021163.1	Ca_kabuli_chr04	14406071	TT	CC	1946794659

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_43016_14406101	NC_021163.1	Ca_kabuli_chr04	14406101	TT	CC	1946794663
SNP_P4_43017_14406116	NC_021163.1	Ca_kabuli_chr04	14406116	TT	CC	1946794665
SNP_P4_43019_14406143	NC_021163.1	Ca_kabuli_chr04	14406143	TT	GG	1946794667
SNP_P4_43020_14406166	NC_021163.1	Ca_kabuli_chr04	14406166	GG	AA	1946794669
SNP_P4_43021_14406185	NC_021163.1	Ca_kabuli_chr04	14406185	GG	AA	1946794671
SNP_P4_43022_14406220	NC_021163.1	Ca_kabuli_chr04	14406220	AA	TT	1946794673
SNP_P4_43023_14406221	NC_021163.1	Ca_kabuli_chr04	14406221	GG	AA	1946794675
SNP_P4_43024_14406277	NC_021163.1	Ca_kabuli_chr04	14406277	CC	GG	1946794677
SNP_P4_43025_14406348	NC_021163.1	Ca_kabuli_chr04	14406348	TT	GG	1946794679
SNP_P4_43026_14406381	NC_021163.1	Ca_kabuli_chr04	14406381	TT	GG	1946794681
SNP_P4_43027_14406395	NC_021163.1	Ca_kabuli_chr04	14406395	TT	AA	1946794683
SNP_P4_43028_14406422	NC_021163.1	Ca_kabuli_chr04	14406422	AA	CC	1946794685
SNP_P4_43029_14406474	NC_021163.1	Ca_kabuli_chr04	14406474	GG	CC	1946794687
SNP_P4_43030_14406528	NC_021163.1	Ca_kabuli_chr04	14406528	CC	TT	1946794689
SNP_P4_43031_14407154	NC_021163.1	Ca_kabuli_chr04	14407154	AA	CC	1946794691
SNP_P4_43032_14407155	NC_021163.1	Ca_kabuli_chr04	14407155	TT	AA	1946794694
SNP_P4_43033_14407570	NC_021163.1	Ca_kabuli_chr04	14407570	GG	TT	1946794696
SNP_P4_43035_14421622	NC_021163.1	Ca_kabuli_chr04	14421622	AA	TT	1946794698
SNP_P4_43036_14421887	NC_021163.1	Ca_kabuli_chr04	14421887	AA	GG	1946794700
SNP_P4_43037_14422154	NC_021163.1	Ca_kabuli_chr04	14422154	AA	TT	1946794702
SNP_P4_43038_14422166	NC_021163.1	Ca_kabuli_chr04	14422166	TT	CC	1946794704
SNP_P4_43039_14422183	NC_021163.1	Ca_kabuli_chr04	14422183	CC	GG	1946794706
SNP_P4_43040_14422197	NC_021163.1	Ca_kabuli_chr04	14422197	AA	CC	1946794708
SNP_P4_43041_14422218	NC_021163.1	Ca_kabuli_chr04	14422218	CC	TT	1946794710
SNP_P4_43042_14423490	NC_021163.1	Ca_kabuli_chr04	14423490	CC	GG	1946794712
SNP_P4_43043_14471770	NC_021163.1	Ca_kabuli_chr04	14471770	TT	CC	1946794714
SNP_P4_43044_14473361	NC_021163.1	Ca_kabuli_chr04	14473361	TT	GG	1946794716
SNP_P4_43045_14491148	NC_021163.1	Ca_kabuli_chr04	14491148	TT	GG	1946794718
SNP_P4_43046_14491603	NC_021163.1	Ca_kabuli_chr04	14491603	AA	TT	1946794720
SNP_P4_43047_14491604	NC_021163.1	Ca_kabuli_chr04	14491604	CC	AA	1946794722
SNP_P4_43048_14491605	NC_021163.1	Ca_kabuli_chr04	14491605	TT	CC	1946794725
SNP_P4_43049_14491606	NC_021163.1	Ca_kabuli_chr04	14491606	GG	AA	1946794727
SNP_P4_43050_14491627	NC_021163.1	Ca_kabuli_chr04	14491627	CC	TT	1946794729
SNP_P4_43051_14491645	NC_021163.1	Ca_kabuli_chr04	14491645	GG	AA	1946794731
SNP_P4_43052_14491647	NC_021163.1	Ca_kabuli_chr04	14491647	AA	TT	1946794733
SNP_P4_43053_14491681	NC_021163.1	Ca_kabuli_chr04	14491681	GG	AA	1946794735
SNP_P4_43054_14491685	NC_021163.1	Ca_kabuli_chr04	14491685	AA	TT	1946794737
SNP_P4_43055_14537577	NC_021163.1	Ca_kabuli_chr04	14537577	AA	TT	1946794739
SNP_P4_43056_14544895	NC_021163.1	Ca_kabuli_chr04	14544895	TT	CC	1946794741
SNP_P4_43057_14556047	NC_021163.1	Ca_kabuli_chr04	14556047	GG	AA	1946794743
SNP_P4_43058_14556368	NC_021163.1	Ca_kabuli_chr04	14556368	CC	AA	1946794745

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_43060_14556477	NC_021163.1	Ca_kabuli_chr04	14556477	TT	CC	1946794749
SNP_P4_43061_14556489	NC_021163.1	Ca_kabuli_chr04	14556489	AA	GG	1946794752
SNP_P4_43062_14590181	NC_021163.1	Ca_kabuli_chr04	14590181	TT	CC	1946794754
SNP_P4_43063_14590657	NC_021163.1	Ca_kabuli_chr04	14590657	CC	TT	1946794756
SNP_P4_43064_14620234	NC_021163.1	Ca_kabuli_chr04	14620234	GG	TT	1946794758
SNP_P4_43065_14635995	NC_021163.1	Ca_kabuli_chr04	14635995	TT	AA	1946794760
SNP_P4_43066_14651295	NC_021163.1	Ca_kabuli_chr04	14651295	AA	TT	1946794762
SNP_P4_43067_14651309	NC_021163.1	Ca_kabuli_chr04	14651309	AA	GG	1946794765
SNP_P4_43068_14651315	NC_021163.1	Ca_kabuli_chr04	14651315	AA	GG	1946794767
SNP_P4_43070_14700699	NC_021163.1	Ca_kabuli_chr04	14700699	AA	GG	1946794769
SNP_P4_43071_14793944	NC_021163.1	Ca_kabuli_chr04	14793944	GG	AA	1946794771
SNP_P4_43072_14793989	NC_021163.1	Ca_kabuli_chr04	14793989	TT	AA	1946794773
SNP_P4_43074_14814071	NC_021163.1	Ca_kabuli_chr04	14814071	AA	TT	1946794775
SNP_P4_43075_14846175	NC_021163.1	Ca_kabuli_chr04	14846175	TT	CC	1946794778
SNP_P4_43076_14860899	NC_021163.1	Ca_kabuli_chr04	14860899	GG	TT	1946794780
SNP_P4_43077_14867245	NC_021163.1	Ca_kabuli_chr04	14867245	TT	CC	1946794782
SNP_P4_43078_14867416	NC_021163.1	Ca_kabuli_chr04	14867416	TT	CC	1946794784
SNP_P4_43079_14867849	NC_021163.1	Ca_kabuli_chr04	14867849	GG	AA	1946794786
SNP_P4_43080_14886235	NC_021163.1	Ca_kabuli_chr04	14886235	CC	GG	1946794788
SNP_P4_43081_14911703	NC_021163.1	Ca_kabuli_chr04	14911703	CC	GG	1946794790
SNP_P4_43082_14911719	NC_021163.1	Ca_kabuli_chr04	14911719	TT	AA	1946794792
SNP_P4_43083_14911774	NC_021163.1	Ca_kabuli_chr04	14911774	CC	AA	1946794794
SNP_P4_43084_14911845	NC_021163.1	Ca_kabuli_chr04	14911845	AA	CC	1946794796
SNP_P4_43085_14911867	NC_021163.1	Ca_kabuli_chr04	14911867	AA	GG	1946794798
SNP_P4_43086_14912372	NC_021163.1	Ca_kabuli_chr04	14912372	TT	AA	1946794800
SNP_P4_43087_14932690	NC_021163.1	Ca_kabuli_chr04	14932690	AA	GG	1946794803
SNP_P4_43088_14932739	NC_021163.1	Ca_kabuli_chr04	14932739	TT	AA	1946794805
SNP_P4_43089_14932838	NC_021163.1	Ca_kabuli_chr04	14932838	CC	AA	1946794807
SNP_P4_43091_14933063	NC_021163.1	Ca_kabuli_chr04	14933063	AA	GG	1946794809
SNP_P4_43092_14933118	NC_021163.1	Ca_kabuli_chr04	14933118	GG	TT	1946794811
SNP_P4_43093_14997066	NC_021163.1	Ca_kabuli_chr04	14997066	CC	TT	1946794813
SNP_P4_43095_14999722	NC_021163.1	Ca_kabuli_chr04	14999722	AA	CC	1946794815
SNP_P4_43096_14999727	NC_021163.1	Ca_kabuli_chr04	14999727	CC	TT	1946794817
SNP_P4_43097_14999754	NC_021163.1	Ca_kabuli_chr04	14999754	AA	CC	1946794819
SNP_P4_43098_14999768	NC_021163.1	Ca_kabuli_chr04	14999768	CC	TT	1946794821
SNP_P4_43099_14999788	NC_021163.1	Ca_kabuli_chr04	14999788	CC	TT	1946794823
SNP_P4_43100_14999871	NC_021163.1	Ca_kabuli_chr04	14999871	GG	TT	1946794825
SNP_P4_43101_14999899	NC_021163.1	Ca_kabuli_chr04	14999899	TT	CC	1946794827
SNP_P4_43102_14999984	NC_021163.1	Ca_kabuli_chr04	14999984	CC	TT	1946794829
SNP_P4_43103_14999994	NC_021163.1	Ca_kabuli_chr04	14999994	TT	CC	1946794831
SNP_P4_43104_15000054	NC_021163.1	Ca_kabuli_chr04	15000054	TT	AA	1946794833

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_43106_15000076	NC_021163.1	Ca_kabuli_chr04	15000076	CC	AA	1946794837
SNP_P4_43107_15000079	NC_021163.1	Ca_kabuli_chr04	15000079	AA	CC	1946794839
SNP_P4_43108_15000165	NC_021163.1	Ca_kabuli_chr04	15000165	TT	GG	1946794841
SNP_P4_43109_15000171	NC_021163.1	Ca_kabuli_chr04	15000171	AA	GG	1946794843
SNP_P4_43110_15000207	NC_021163.1	Ca_kabuli_chr04	15000207	TT	AA	1946794845
SNP_P4_43111_15000636	NC_021163.1	Ca_kabuli_chr04	15000636	GG	AA	1946794847
SNP_P4_43112_15004610	NC_021163.1	Ca_kabuli_chr04	15004610	TT	CC	1946794849
SNP_P4_43113_15004759	NC_021163.1	Ca_kabuli_chr04	15004759	TT	GG	1946794851
SNP_P4_43114_15004797	NC_021163.1	Ca_kabuli_chr04	15004797	TT	CC	1946794853
SNP_P4_43115_15004851	NC_021163.1	Ca_kabuli_chr04	15004851	GG	TT	1946794855
SNP_P4_43116_15004852	NC_021163.1	Ca_kabuli_chr04	15004852	TT	GG	1946794857
SNP_P4_43117_15004920	NC_021163.1	Ca_kabuli_chr04	15004920	AA	GG	1946794859
SNP_P4_43118_15004949	NC_021163.1	Ca_kabuli_chr04	15004949	AA	TT	1946794861
SNP_P4_43119_15005007	NC_021163.1	Ca_kabuli_chr04	15005007	CC	AA	1946794863
SNP_P4_43120_15005022	NC_021163.1	Ca_kabuli_chr04	15005022	AA	GG	1946794865
SNP_P4_43121_15005027	NC_021163.1	Ca_kabuli_chr04	15005027	TT	CC	1946794867
SNP_P4_43124_15013659	NC_021163.1	Ca_kabuli_chr04	15013659	GG	AA	1946794869
SNP_P4_43125_15016372	NC_021163.1	Ca_kabuli_chr04	15016372	AA	TT	1946794871
SNP_P4_43126_15048106	NC_021163.1	Ca_kabuli_chr04	15048106	TT	AA	1946794873
SNP_P4_43127_15048121	NC_021163.1	Ca_kabuli_chr04	15048121	AA	CC	1946794875
SNP_P4_43128_15048137	NC_021163.1	Ca_kabuli_chr04	15048137	AA	TT	1946794877
SNP_P4_43129_15048142	NC_021163.1	Ca_kabuli_chr04	15048142	AA	CC	1946794879
SNP_P4_43131_15061397	NC_021163.1	Ca_kabuli_chr04	15061397	GG	AA	1946794881
SNP_P4_43132_15080965	NC_021163.1	Ca_kabuli_chr04	15080965	CC	TT	1946794883
SNP_P4_43133_15080966	NC_021163.1	Ca_kabuli_chr04	15080966	GG	CC	1946794885
SNP_P4_43134_15081007	NC_021163.1	Ca_kabuli_chr04	15081007	CC	TT	1946794887
SNP_P4_43135_15081028	NC_021163.1	Ca_kabuli_chr04	15081028	TT	CC	1946794889
SNP_P4_43136_15081033	NC_021163.1	Ca_kabuli_chr04	15081033	GG	AA	1946794891
SNP_P4_43138_15081062	NC_021163.1	Ca_kabuli_chr04	15081062	TT	AA	1946794893
SNP_P4_43139_15081093	NC_021163.1	Ca_kabuli_chr04	15081093	AA	GG	1946794895
SNP_P4_43140_15081094	NC_021163.1	Ca_kabuli_chr04	15081094	TT	GG	1946794898
SNP_P4_43141_15081144	NC_021163.1	Ca_kabuli_chr04	15081144	GG	TT	1946794900
SNP_P4_43142_15081185	NC_021163.1	Ca_kabuli_chr04	15081185	GG	AA	1946794902
SNP_P4_43143_15095608	NC_021163.1	Ca_kabuli_chr04	15095608	AA	TT	1946794904
SNP_P4_43145_15116906	NC_021163.1	Ca_kabuli_chr04	15116906	TT	CC	1946794906
SNP_P4_43146_15116907	NC_021163.1	Ca_kabuli_chr04	15116907	TT	AA	1946794908
SNP_P4_43147_15118226	NC_021163.1	Ca_kabuli_chr04	15118226	TT	CC	1946794910
SNP_P4_43148_15118309	NC_021163.1	Ca_kabuli_chr04	15118309	TT	GG	1946794913
SNP_P4_43149_15118538	NC_021163.1	Ca_kabuli_chr04	15118538	CC	TT	1946794915
SNP_P4_43150_15118728	NC_021163.1	Ca_kabuli_chr04	15118728	CC	TT	1946794917
SNP_P4_43151_15118778	NC_021163.1	Ca_kabuli_chr04	15118778	AA	TT	1946794919

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_43152_15119207	NC_021163.1	Ca_kabuli_chr04	15119207	TT	GG	1946794921
SNP_P4_43153_15170782	NC_021163.1	Ca_kabuli_chr04	15170782	AA	GG	1946794923
SNP_P4_43154_15174276	NC_021163.1	Ca_kabuli_chr04	15174276	GG	AA	1946794924
SNP_P4_43155_15175371	NC_021163.1	Ca_kabuli_chr04	15175371	TT	GG	1946794925
SNP_P4_43156_15181183	NC_021163.1	Ca_kabuli_chr04	15181183	AA	GG	1946794926
SNP_P4_43157_15201673	NC_021163.1	Ca_kabuli_chr04	15201673	AA	TT	1946794927
SNP_P4_43158_15208564	NC_021163.1	Ca_kabuli_chr04	15208564	AA	GG	1946794928
SNP_P4_43159_15208578	NC_021163.1	Ca_kabuli_chr04	15208578	AA	TT	1946794930
SNP_P4_43160_15208600	NC_021163.1	Ca_kabuli_chr04	15208600	CC	GG	1946794932
SNP_P4_43161_15222672	NC_021163.1	Ca_kabuli_chr04	15222672	AA	TT	1946794934
SNP_P4_43162_15223056	NC_021163.1	Ca_kabuli_chr04	15223056	GG	AA	1946794936
SNP_P4_43163_15252015	NC_021163.1	Ca_kabuli_chr04	15252015	CC	TT	1946794938
SNP_P4_43165_15292097	NC_021163.1	Ca_kabuli_chr04	15292097	AA	GG	1946794940
SNP_P4_43166_15330280	NC_021163.1	Ca_kabuli_chr04	15330280	AA	TT	1946794942
SNP_P4_43168_15333258	NC_021163.1	Ca_kabuli_chr04	15333258	TT	CC	1946794944
SNP_P4_43169_15333300	NC_021163.1	Ca_kabuli_chr04	15333300	AA	GG	1946794946
SNP_P4_43170_15333325	NC_021163.1	Ca_kabuli_chr04	15333325	CC	TT	1946794948
SNP_P4_43171_15333354	NC_021163.1	Ca_kabuli_chr04	15333354	GG	AA	1946794950
SNP_P4_43172_15333356	NC_021163.1	Ca_kabuli_chr04	15333356	TT	CC	1946794952
SNP_P4_43173_15333413	NC_021163.1	Ca_kabuli_chr04	15333413	AA	GG	1946794954
SNP_P4_43174_15333422	NC_021163.1	Ca_kabuli_chr04	15333422	GG	AA	1946794956
SNP_P4_43175_15333426	NC_021163.1	Ca_kabuli_chr04	15333426	TT	GG	1946794958
SNP_P4_43176_15333443	NC_021163.1	Ca_kabuli_chr04	15333443	CC	TT	1946794960
SNP_P4_43177_15333673	NC_021163.1	Ca_kabuli_chr04	15333673	AA	TT	1946794962
SNP_P4_43178_15333727	NC_021163.1	Ca_kabuli_chr04	15333727	AA	CC	1946794964
SNP_P4_43179_15343042	NC_021163.1	Ca_kabuli_chr04	15343042	TT	AA	1946794965
SNP_P4_43180_15343488	NC_021163.1	Ca_kabuli_chr04	15343488	GG	AA	1946794968
SNP_P4_43181_15347087	NC_021163.1	Ca_kabuli_chr04	15347087	TT	CC	1946794970
SNP_P4_43183_15419035	NC_021163.1	Ca_kabuli_chr04	15419035	AA	GG	1946794972
SNP_P4_43184_15439412	NC_021163.1	Ca_kabuli_chr04	15439412	TT	CC	1946794974
SNP_P4_43186_15465084	NC_021163.1	Ca_kabuli_chr04	15465084	TT	AA	1946794975
SNP_P4_43187_15465090	NC_021163.1	Ca_kabuli_chr04	15465090	TT	AA	1946794978
SNP_P4_43189_15499310	NC_021163.1	Ca_kabuli_chr04	15499310	CC	TT	1946794980
SNP_P4_43190_15500343	NC_021163.1	Ca_kabuli_chr04	15500343	CC	TT	1946794982
SNP_P4_43191_15549624	NC_021163.1	Ca_kabuli_chr04	15549624	AA	TT	1946794984
SNP_P4_43192_15573138	NC_021163.1	Ca_kabuli_chr04	15573138	GG	AA	1946794986
SNP_P4_43193_15573144	NC_021163.1	Ca_kabuli_chr04	15573144	TT	AA	1946794988
SNP_P4_43194_15579812	NC_021163.1	Ca_kabuli_chr04	15579812	CC	TT	1946794989
SNP_P4_43195_15579814	NC_021163.1	Ca_kabuli_chr04	15579814	CC	TT	1946794992
SNP_P4_43197_15595736	NC_021163.1	Ca_kabuli_chr04	15595736	TT	CC	1946794994
SNP_P4_43198_15595799	NC_021163.1	Ca_kabuli_chr04	15595799	AA	CC	1946794996
SNP_P4_43199_15608255	NC_021163.1	Ca_kabuli_chr04	15608255	AA	TT	1946794998

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_43202_15620825	NC_021163.1	Ca_kabuli_chr04	15620825	TT	CC	1946795002
SNP_P4_43204_15632522	NC_021163.1	Ca_kabuli_chr04	15632522	CC	TT	1946795004
SNP_P4_43205_15632625	NC_021163.1	Ca_kabuli_chr04	15632625	TT	CC	1946795006
SNP_P4_43206_15632683	NC_021163.1	Ca_kabuli_chr04	15632683	CC	TT	1946795007
SNP_P4_43207_15632697	NC_021163.1	Ca_kabuli_chr04	15632697	TT	CC	1946795009
SNP_P4_43208_15632699	NC_021163.1	Ca_kabuli_chr04	15632699	GG	TT	1946795011
SNP_P4_43209_15632765	NC_021163.1	Ca_kabuli_chr04	15632765	CC	TT	1946795013
SNP_P4_43210_15632924	NC_021163.1	Ca_kabuli_chr04	15632924	TT	AA	1946795015
SNP_P4_43211_15632926	NC_021163.1	Ca_kabuli_chr04	15632926	TT	CC	1946795017
SNP_P4_43212_15632927	NC_021163.1	Ca_kabuli_chr04	15632927	TT	CC	1946795019
SNP_P4_43213_15672030	NC_021163.1	Ca_kabuli_chr04	15672030	AA	TT	1946795021
SNP_P4_43216_15683232	NC_021163.1	Ca_kabuli_chr04	15683232	AA	GG	1946795023
SNP_P4_43217_15698212	NC_021163.1	Ca_kabuli_chr04	15698212	GG	TT	1946795025
SNP_P4_43218_15712400	NC_021163.1	Ca_kabuli_chr04	15712400	GG	AA	1946795026
SNP_P4_43219_15719950	NC_021163.1	Ca_kabuli_chr04	15719950	TT	CC	1946795028
SNP_P4_43220_15719955	NC_021163.1	Ca_kabuli_chr04	15719955	AA	TT	1946795030
SNP_P4_43221_15719956	NC_021163.1	Ca_kabuli_chr04	15719956	AA	TT	1946795032
SNP_P4_43222_15722159	NC_021163.1	Ca_kabuli_chr04	15722159	TT	CC	1946795034
SNP_P4_43223_15722177	NC_021163.1	Ca_kabuli_chr04	15722177	TT	CC	1946795036
SNP_P4_43224_15729658	NC_021163.1	Ca_kabuli_chr04	15729658	AA	TT	1946795038
SNP_P4_43226_15769321	NC_021163.1	Ca_kabuli_chr04	15769321	TT	CC	1946795040
SNP_P4_43227_15769877	NC_021163.1	Ca_kabuli_chr04	15769877	GG	AA	1946795042
SNP_P4_43228_15788354	NC_021163.1	Ca_kabuli_chr04	15788354	AA	GG	1946795044
SNP_P4_43229_15788493	NC_021163.1	Ca_kabuli_chr04	15788493	GG	AA	1946795046
SNP_P4_43230_15788495	NC_021163.1	Ca_kabuli_chr04	15788495	GG	CC	1946795048
SNP_P4_43231_15788519	NC_021163.1	Ca_kabuli_chr04	15788519	TT	CC	1946795050
SNP_P4_43232_15788546	NC_021163.1	Ca_kabuli_chr04	15788546	TT	CC	1946795052
SNP_P4_43233_15788555	NC_021163.1	Ca_kabuli_chr04	15788555	AA	GG	1946795054
SNP_P4_43234_15788564	NC_021163.1	Ca_kabuli_chr04	15788564	GG	AA	1946795056
SNP_P4_43235_15788718	NC_021163.1	Ca_kabuli_chr04	15788718	GG	TT	1946795058
SNP_P4_43237_15800481	NC_021163.1	Ca_kabuli_chr04	15800481	GG	AA	1946795060
SNP_P4_43238_15801277	NC_021163.1	Ca_kabuli_chr04	15801277	TT	CC	1946795062
SNP_P4_43239_15801308	NC_021163.1	Ca_kabuli_chr04	15801308	CC	TT	1946795064
SNP_P4_43240_15815202	NC_021163.1	Ca_kabuli_chr04	15815202	TT	CC	1946795066
SNP_P4_43241_15862712	NC_021163.1	Ca_kabuli_chr04	15862712	GG	AA	1946795068
SNP_P4_43242_15865077	NC_021163.1	Ca_kabuli_chr04	15865077	GG	TT	1946795070
SNP_P4_43243_15869748	NC_021163.1	Ca_kabuli_chr04	15869748	TT	GG	1946795072
SNP_P4_43244_15869762	NC_021163.1	Ca_kabuli_chr04	15869762	AA	GG	1946795074
SNP_P4_43245_15884383	NC_021163.1	Ca_kabuli_chr04	15884383	GG	TT	1946795076
SNP_P4_43246_15896550	NC_021163.1	Ca_kabuli_chr04	15896550	GG	TT	1946795079
SNP_P4_43247_15907205	NC_021163.1	Ca_kabuli_chr04	15907205	TT	CC	1946795081

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_43249_15916935	NC_021163.1	Ca_kabuli_chr04	15916935	CC	AA	1946795085
SNP_P4_43253_15920404	NC_021163.1	Ca_kabuli_chr04	15920404	GG	TT	1946795087
SNP_P4_43255_15922793	NC_021163.1	Ca_kabuli_chr04	15922793	GG	TT	1946795089
SNP_P4_43256_15923944	NC_021163.1	Ca_kabuli_chr04	15923944	CC	GG	1946795091
SNP_P4_43257_15924323	NC_021163.1	Ca_kabuli_chr04	15924323	GG	AA	1946795093
SNP_P4_43258_15924645	NC_021163.1	Ca_kabuli_chr04	15924645	GG	CC	1946795095
SNP_P4_43259_15924652	NC_021163.1	Ca_kabuli_chr04	15924652	GG	CC	1946795097
SNP_P4_43260_15925312	NC_021163.1	Ca_kabuli_chr04	15925312	TT	GG	1946795099
SNP_P4_43261_15925792	NC_021163.1	Ca_kabuli_chr04	15925792	CC	TT	1946795101
SNP_P4_43263_15926280	NC_021163.1	Ca_kabuli_chr04	15926280	AA	GG	1946795103
SNP_P4_43264_15926318	NC_021163.1	Ca_kabuli_chr04	15926318	GG	AA	1946795105
SNP_P4_43265_15927912	NC_021163.1	Ca_kabuli_chr04	15927912	AA	GG	1946795106
SNP_P4_43266_15927962	NC_021163.1	Ca_kabuli_chr04	15927962	CC	AA	1946795108
SNP_P4_43267_15928441	NC_021163.1	Ca_kabuli_chr04	15928441	CC	TT	1946795110
SNP_P4_43268_15929931	NC_021163.1	Ca_kabuli_chr04	15929931	TT	AA	1946795112
SNP_P4_43269_15930498	NC_021163.1	Ca_kabuli_chr04	15930498	GG	CC	1946795114
SNP_P4_43270_15930674	NC_021163.1	Ca_kabuli_chr04	15930674	AA	TT	1946795116
SNP_P4_43271_15930841	NC_021163.1	Ca_kabuli_chr04	15930841	TT	CC	1946795118
SNP_P4_43272_15930860	NC_021163.1	Ca_kabuli_chr04	15930860	TT	AA	1946795120
SNP_P4_43274_15931844	NC_021163.1	Ca_kabuli_chr04	15931844	CC	GG	1946795122
SNP_P4_43275_15932843	NC_021163.1	Ca_kabuli_chr04	15932843	TT	CC	1946795124
SNP_P4_43277_15933422	NC_021163.1	Ca_kabuli_chr04	15933422	CC	TT	1946795126
SNP_P4_43278_15934462	NC_021163.1	Ca_kabuli_chr04	15934462	GG	AA	1946795129
SNP_P4_43279_15935270	NC_021163.1	Ca_kabuli_chr04	15935270	AA	GG	1946795131
SNP_P4_43280_15936145	NC_021163.1	Ca_kabuli_chr04	15936145	AA	GG	1946795133
SNP_P4_43281_15936906	NC_021163.1	Ca_kabuli_chr04	15936906	AA	CC	1946795135
SNP_P4_43282_15937238	NC_021163.1	Ca_kabuli_chr04	15937238	AA	CC	1946795137
SNP_P4_43283_15937243	NC_021163.1	Ca_kabuli_chr04	15937243	GG	CC	1946795139
SNP_P4_43284_15937354	NC_021163.1	Ca_kabuli_chr04	15937354	GG	TT	1946795141
SNP_P4_43285_15937795	NC_021163.1	Ca_kabuli_chr04	15937795	CC	TT	1946795143
SNP_P4_43287_15938882	NC_021163.1	Ca_kabuli_chr04	15938882	AA	GG	1946795145
SNP_P4_43288_15938887	NC_021163.1	Ca_kabuli_chr04	15938887	CC	TT	1946795147
SNP_P4_43289_15938917	NC_021163.1	Ca_kabuli_chr04	15938917	CC	TT	1946795149
SNP_P4_43290_15938924	NC_021163.1	Ca_kabuli_chr04	15938924	GG	AA	1946795151
SNP_P4_43291_15938971	NC_021163.1	Ca_kabuli_chr04	15938971	AA	TT	1946795153
SNP_P4_43293_15941236	NC_021163.1	Ca_kabuli_chr04	15941236	AA	TT	1946795155
SNP_P4_43294_15942039	NC_021163.1	Ca_kabuli_chr04	15942039	AA	GG	1946795157
SNP_P4_43295_15947987	NC_021163.1	Ca_kabuli_chr04	15947987	AA	GG	1946795159
SNP_P4_43296_15948309	NC_021163.1	Ca_kabuli_chr04	15948309	GG	AA	1946795162
SNP_P4_43297_15948376	NC_021163.1	Ca_kabuli_chr04	15948376	CC	GG	1946795164
SNP_P4_43298_15948813	NC_021163.1	Ca_kabuli_chr04	15948813	AA	TT	1946795166

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_43300_15948832	NC_021163.1	Ca_kabuli_chr04	15948832	TT	CC	1946795170
SNP_P4_43301_15948842	NC_021163.1	Ca_kabuli_chr04	15948842	GG	TT	1946795172
SNP_P4_43302_15952007	NC_021163.1	Ca_kabuli_chr04	15952007	GG	AA	1946795174
SNP_P4_43303_15952518	NC_021163.1	Ca_kabuli_chr04	15952518	TT	CC	1946795176
SNP_P4_43304_15952520	NC_021163.1	Ca_kabuli_chr04	15952520	TT	GG	1946795178
SNP_P4_43305_15952555	NC_021163.1	Ca_kabuli_chr04	15952555	AA	GG	1946795180
SNP_P4_43306_15952587	NC_021163.1	Ca_kabuli_chr04	15952587	AA	CC	1946795182
SNP_P4_43308_15952676	NC_021163.1	Ca_kabuli_chr04	15952676	AA	GG	1946795184
SNP_P4_43309_15952705	NC_021163.1	Ca_kabuli_chr04	15952705	TT	GG	1946795186
SNP_P4_43310_15952764	NC_021163.1	Ca_kabuli_chr04	15952764	TT	AA	1946795188
SNP_P4_43311_15953163	NC_021163.1	Ca_kabuli_chr04	15953163	AA	TT	1946795190
SNP_P4_43312_15954443	NC_021163.1	Ca_kabuli_chr04	15954443	GG	AA	1946795192
SNP_P4_43313_15954773	NC_021163.1	Ca_kabuli_chr04	15954773	AA	GG	1946795194
SNP_P4_43315_15958821	NC_021163.1	Ca_kabuli_chr04	15958821	AA	GG	1946795196
SNP_P4_43317_15959748	NC_021163.1	Ca_kabuli_chr04	15959748	TT	GG	1946795199
SNP_P4_43318_15959914	NC_021163.1	Ca_kabuli_chr04	15959914	CC	TT	1946795201
SNP_P4_43319_15959936	NC_021163.1	Ca_kabuli_chr04	15959936	CC	TT	1946795203
SNP_P4_43321_15960170	NC_021163.1	Ca_kabuli_chr04	15960170	AA	CC	1946795205
SNP_P4_43323_15960964	NC_021163.1	Ca_kabuli_chr04	15960964	TT	AA	1946795207
SNP_P4_43324_15961111	NC_021163.1	Ca_kabuli_chr04	15961111	GG	AA	1946795209
SNP_P4_43325_15962521	NC_021163.1	Ca_kabuli_chr04	15962521	CC	TT	1946795211
SNP_P4_43326_15962552	NC_021163.1	Ca_kabuli_chr04	15962552	AA	GG	1946795213
SNP_P4_43328_15962643	NC_021163.1	Ca_kabuli_chr04	15962643	TT	CC	1946795215
SNP_P4_43329_15963255	NC_021163.1	Ca_kabuli_chr04	15963255	TT	CC	1946795217
SNP_P4_43330_15963332	NC_021163.1	Ca_kabuli_chr04	15963332	TT	CC	1946795219
SNP_P4_43331_15966814	NC_021163.1	Ca_kabuli_chr04	15966814	AA	CC	1946795221
SNP_P4_43332_15967169	NC_021163.1	Ca_kabuli_chr04	15967169	AA	GG	1946795223
SNP_P4_43333_15967216	NC_021163.1	Ca_kabuli_chr04	15967216	CC	TT	1946795225
SNP_P4_43334_15967479	NC_021163.1	Ca_kabuli_chr04	15967479	CC	GG	1946795227
SNP_P4_43335_15968040	NC_021163.1	Ca_kabuli_chr04	15968040	AA	GG	1946795229
SNP_P4_43337_15969210	NC_021163.1	Ca_kabuli_chr04	15969210	CC	GG	1946795231
SNP_P4_43338_15969278	NC_021163.1	Ca_kabuli_chr04	15969278	TT	AA	1946795233
SNP_P4_43339_15971713	NC_021163.1	Ca_kabuli_chr04	15971713	CC	AA	1946795235
SNP_P4_43340_15972941	NC_021163.1	Ca_kabuli_chr04	15972941	TT	GG	1946795238
SNP_P4_43341_15972976	NC_021163.1	Ca_kabuli_chr04	15972976	AA	CC	1946795240
SNP_P4_43342_15974549	NC_021163.1	Ca_kabuli_chr04	15974549	GG	TT	1946795242
SNP_P4_43344_15981887	NC_021163.1	Ca_kabuli_chr04	15981887	AA	TT	1946795244
SNP_P4_43345_15981949	NC_021163.1	Ca_kabuli_chr04	15981949	TT	CC	1946795246
SNP_P4_43346_15982270	NC_021163.1	Ca_kabuli_chr04	15982270	AA	CC	1946795248
SNP_P4_43347_15982337	NC_021163.1	Ca_kabuli_chr04	15982337	AA	GG	1946795250
SNP_P4_43348_15983274	NC_021163.1	Ca_kabuli_chr04	15983274	AA	GG	1946795252

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_43349_15983404	NC_021163.1	Ca_kabuli_chr04	15983404	CC	GG	1946795254
SNP_P4_43350_15984042	NC_021163.1	Ca_kabuli_chr04	15984042	AA	GG	1946795256
SNP_P4_43351_15984259	NC_021163.1	Ca_kabuli_chr04	15984259	TT	GG	1946795258
SNP_P4_43352_15984833	NC_021163.1	Ca_kabuli_chr04	15984833	CC	TT	1946795260
SNP_P4_43353_15984995	NC_021163.1	Ca_kabuli_chr04	15984995	CC	TT	1946795262
SNP_P4_43354_15985935	NC_021163.1	Ca_kabuli_chr04	15985935	CC	AA	1946795264
SNP_P4_43356_15989410	NC_021163.1	Ca_kabuli_chr04	15989410	GG	TT	1946795266
SNP_P4_43357_15989591	NC_021163.1	Ca_kabuli_chr04	15989591	AA	GG	1946795268
SNP_P4_43360_15990847	NC_021163.1	Ca_kabuli_chr04	15990847	TT	CC	1946795270
SNP_P4_43361_15990894	NC_021163.1	Ca_kabuli_chr04	15990894	CC	TT	1946795272
SNP_P4_43362_15991205	NC_021163.1	Ca_kabuli_chr04	15991205	TT	CC	1946795274
SNP_P4_43363_15991847	NC_021163.1	Ca_kabuli_chr04	15991847	TT	AA	1946795276
SNP_P4_43364_15991855	NC_021163.1	Ca_kabuli_chr04	15991855	GG	AA	1946795278
SNP_P4_43365_15991869	NC_021163.1	Ca_kabuli_chr04	15991869	CC	AA	1946795281
SNP_P4_43366_15992636	NC_021163.1	Ca_kabuli_chr04	15992636	TT	GG	1946795283
SNP_P4_43367_15994127	NC_021163.1	Ca_kabuli_chr04	15994127	AA	TT	1946795285
SNP_P4_43368_15994816	NC_021163.1	Ca_kabuli_chr04	15994816	CC	TT	1946795287
SNP_P4_43369_15994818	NC_021163.1	Ca_kabuli_chr04	15994818	AA	CC	1946795289
SNP_P4_43370_15996112	NC_021163.1	Ca_kabuli_chr04	15996112	TT	CC	1946795291
SNP_P4_43371_15996183	NC_021163.1	Ca_kabuli_chr04	15996183	AA	GG	1946795293
SNP_P4_43372_16001306	NC_021163.1	Ca_kabuli_chr04	16001306	CC	TT	1946795295
SNP_P4_43373_16001553	NC_021163.1	Ca_kabuli_chr04	16001553	AA	GG	1946795297
SNP_P4_43374_16006150	NC_021163.1	Ca_kabuli_chr04	16006150	AA	GG	1946795299
SNP_P4_43376_16015843	NC_021163.1	Ca_kabuli_chr04	16015843	AA	TT	1946795301
SNP_P4_43377_16016308	NC_021163.1	Ca_kabuli_chr04	16016308	TT	CC	1946795303
SNP_P4_43378_16022858	NC_021163.1	Ca_kabuli_chr04	16022858	CC	GG	1946795305
SNP_P4_43379_16025144	NC_021163.1	Ca_kabuli_chr04	16025144	TT	CC	1946795307
SNP_P4_43380_16025436	NC_021163.1	Ca_kabuli_chr04	16025436	CC	TT	1946795309
SNP_P4_43381_16025745	NC_021163.1	Ca_kabuli_chr04	16025745	CC	TT	1946795311
SNP_P4_43382_16025753	NC_021163.1	Ca_kabuli_chr04	16025753	AA	GG	1946795313
SNP_P4_43383_16026131	NC_021163.1	Ca_kabuli_chr04	16026131	AA	GG	1946795315
SNP_P4_43384_16027272	NC_021163.1	Ca_kabuli_chr04	16027272	GG	AA	1946795317
SNP_P4_43385_16027292	NC_021163.1	Ca_kabuli_chr04	16027292	AA	CC	1946795319
SNP_P4_43386_16027299	NC_021163.1	Ca_kabuli_chr04	16027299	TT	AA	1946795321
SNP_P4_43387_16027457	NC_021163.1	Ca_kabuli_chr04	16027457	TT	GG	1946795323
SNP_P4_43388_16028011	NC_021163.1	Ca_kabuli_chr04	16028011	TT	GG	1946795325
SNP_P4_43390_16028227	NC_021163.1	Ca_kabuli_chr04	16028227	AA	GG	1946795327
SNP_P4_43391_16028585	NC_021163.1	Ca_kabuli_chr04	16028585	CC	TT	1946795329
SNP_P4_43392_16028709	NC_021163.1	Ca_kabuli_chr04	16028709	TT	GG	1946795331
SNP_P4_43393_16028729	NC_021163.1	Ca_kabuli_chr04	16028729	GG	TT	1946795333
SNP_P4_43394_16028774	NC_021163.1	Ca_kabuli_chr04	16028774	GG	AA	1946795335
SNP_P4_43395_16028778	NC_021163.1	Ca_kabuli_chr04	16028778	CC	TT	1946795337

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_43398_16028899	NC_021163.1	Ca_kabuli_chr04	16028899	TT	CC	1946795341
SNP_P4_43399_16028938	NC_021163.1	Ca_kabuli_chr04	16028938	AA	GG	1946795343
SNP_P4_43400_16029195	NC_021163.1	Ca_kabuli_chr04	16029195	AA	GG	1946795345
SNP_P4_43401_16030878	NC_021163.1	Ca_kabuli_chr04	16030878	AA	GG	1946795347
SNP_P4_43402_16031556	NC_021163.1	Ca_kabuli_chr04	16031556	TT	CC	1946795349
SNP_P4_43403_16031557	NC_021163.1	Ca_kabuli_chr04	16031557	CC	GG	1946795351
SNP_P4_43404_16031562	NC_021163.1	Ca_kabuli_chr04	16031562	CC	AA	1946795353
SNP_P4_43405_16031842	NC_021163.1	Ca_kabuli_chr04	16031842	CC	GG	1946795355
SNP_P4_43406_16033220	NC_021163.1	Ca_kabuli_chr04	16033220	CC	GG	1946795357
SNP_P4_43407_16035252	NC_021163.1	Ca_kabuli_chr04	16035252	TT	CC	1946795359
SNP_P4_43409_16035296	NC_021163.1	Ca_kabuli_chr04	16035296	TT	CC	1946795361
SNP_P4_43410_16039028	NC_021163.1	Ca_kabuli_chr04	16039028	TT	AA	1946795363
SNP_P4_43411_16042155	NC_021163.1	Ca_kabuli_chr04	16042155	GG	AA	1946795365
SNP_P4_43412_16042350	NC_021163.1	Ca_kabuli_chr04	16042350	TT	CC	1946795367
SNP_P4_43413_16043451	NC_021163.1	Ca_kabuli_chr04	16043451	AA	TT	1946795369
SNP_P4_43414_16044069	NC_021163.1	Ca_kabuli_chr04	16044069	GG	AA	1946795371
SNP_P4_43415_16044074	NC_021163.1	Ca_kabuli_chr04	16044074	CC	TT	1946795373
SNP_P4_43416_16044075	NC_021163.1	Ca_kabuli_chr04	16044075	CC	TT	1946795375
SNP_P4_43417_16044081	NC_021163.1	Ca_kabuli_chr04	16044081	CC	TT	1946795377
SNP_P4_43418_16044338	NC_021163.1	Ca_kabuli_chr04	16044338	TT	CC	1946795379
SNP_P4_43419_16044361	NC_021163.1	Ca_kabuli_chr04	16044361	TT	AA	1946795381
SNP_P4_43420_16044371	NC_021163.1	Ca_kabuli_chr04	16044371	CC	TT	1946795383
SNP_P4_43421_16045870	NC_021163.1	Ca_kabuli_chr04	16045870	GG	AA	1946795385
SNP_P4_43423_16048787	NC_021163.1	Ca_kabuli_chr04	16048787	AA	GG	1946795387
SNP_P4_43424_16048919	NC_021163.1	Ca_kabuli_chr04	16048919	AA	TT	1946795389
SNP_P4_43425_16049010	NC_021163.1	Ca_kabuli_chr04	16049010	AA	GG	1946795392
SNP_P4_43426_16051721	NC_021163.1	Ca_kabuli_chr04	16051721	AA	GG	1946795394
SNP_P4_43427_16052515	NC_021163.1	Ca_kabuli_chr04	16052515	GG	TT	1946795396
SNP_P4_43428_16053020	NC_021163.1	Ca_kabuli_chr04	16053020	GG	AA	1946795398
SNP_P4_43429_16055627	NC_021163.1	Ca_kabuli_chr04	16055627	CC	AA	1946795400
SNP_P4_43430_16055785	NC_021163.1	Ca_kabuli_chr04	16055785	CC	TT	1946795402
SNP_P4_43431_16056773	NC_021163.1	Ca_kabuli_chr04	16056773	TT	CC	1946795404
SNP_P4_43434_16057681	NC_021163.1	Ca_kabuli_chr04	16057681	GG	AA	1946795406
SNP_P4_43435_16059141	NC_021163.1	Ca_kabuli_chr04	16059141	GG	TT	1946795408
SNP_P4_43436_16059172	NC_021163.1	Ca_kabuli_chr04	16059172	GG	TT	1946795410
SNP_P4_43437_16059354	NC_021163.1	Ca_kabuli_chr04	16059354	GG	AA	1946795412
SNP_P4_43438_16059393	NC_021163.1	Ca_kabuli_chr04	16059393	CC	AA	1946795414
SNP_P4_43439_16059403	NC_021163.1	Ca_kabuli_chr04	16059403	AA	GG	1946795416
SNP_P4_43440_16059426	NC_021163.1	Ca_kabuli_chr04	16059426	CC	TT	1946795419
SNP_P4_43441_16059508	NC_021163.1	Ca_kabuli_chr04	16059508	AA	GG	1946795421
SNP_P4_43442_16059541	NC_021163.1	Ca_kabuli_chr04	16059541	AA	GG	1946795423

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_43444_16059609	NC_021163.1	Ca_kabuli_chr04	16059609	TT	CC	1946795427
SNP_P4_43445_16059619	NC_021163.1	Ca_kabuli_chr04	16059619	TT	AA	1946795429
SNP_P4_43446_16061164	NC_021163.1	Ca_kabuli_chr04	16061164	CC	AA	1946795431
SNP_P4_43447_16061165	NC_021163.1	Ca_kabuli_chr04	16061165	AA	CC	1946795434
SNP_P4_43449_16064259	NC_021163.1	Ca_kabuli_chr04	16064259	CC	AA	1946795436
SNP_P4_43452_16066167	NC_021163.1	Ca_kabuli_chr04	16066167	CC	GG	1946795438
SNP_P4_43453_16066480	NC_021163.1	Ca_kabuli_chr04	16066480	TT	CC	1946795440
SNP_P4_43454_16067339	NC_021163.1	Ca_kabuli_chr04	16067339	TT	GG	1946795442
SNP_P4_43455_16067407	NC_021163.1	Ca_kabuli_chr04	16067407	TT	AA	1946795444
SNP_P4_43456_16067422	NC_021163.1	Ca_kabuli_chr04	16067422	AA	GG	1946795446
SNP_P4_43457_16067484	NC_021163.1	Ca_kabuli_chr04	16067484	GG	AA	1946795448
SNP_P4_43458_16067497	NC_021163.1	Ca_kabuli_chr04	16067497	GG	CC	1946795450
SNP_P4_43460_16072589	NC_021163.1	Ca_kabuli_chr04	16072589	TT	GG	1946795452
SNP_P4_43461_16072597	NC_021163.1	Ca_kabuli_chr04	16072597	AA	TT	1946795454
SNP_P4_43462_16074072	NC_021163.1	Ca_kabuli_chr04	16074072	CC	AA	1946795456
SNP_P4_43464_16077020	NC_021163.1	Ca_kabuli_chr04	16077020	AA	TT	1946795458
SNP_P4_43465_16077021	NC_021163.1	Ca_kabuli_chr04	16077021	CC	TT	1946795460
SNP_P4_43466_16077075	NC_021163.1	Ca_kabuli_chr04	16077075	GG	AA	1946795462
SNP_P4_43467_16077149	NC_021163.1	Ca_kabuli_chr04	16077149	CC	GG	1946795465
SNP_P4_43468_16077316	NC_021163.1	Ca_kabuli_chr04	16077316	GG	CC	1946795467
SNP_P4_43471_16080199	NC_021163.1	Ca_kabuli_chr04	16080199	AA	TT	1946795469
SNP_P4_43472_16080208	NC_021163.1	Ca_kabuli_chr04	16080208	CC	TT	1946795471
SNP_P4_43473_16080221	NC_021163.1	Ca_kabuli_chr04	16080221	TT	CC	1946795473
SNP_P4_43474_16080224	NC_021163.1	Ca_kabuli_chr04	16080224	TT	AA	1946795475
SNP_P4_43477_16080595	NC_021163.1	Ca_kabuli_chr04	16080595	GG	TT	1946795477
SNP_P4_43478_16082718	NC_021163.1	Ca_kabuli_chr04	16082718	AA	TT	1946795479
SNP_P4_43479_16082729	NC_021163.1	Ca_kabuli_chr04	16082729	AA	TT	1946795481
SNP_P4_43480_16082874	NC_021163.1	Ca_kabuli_chr04	16082874	TT	CC	1946795483
SNP_P4_43481_16084856	NC_021163.1	Ca_kabuli_chr04	16084856	GG	AA	1946795485
SNP_P4_43482_16085164	NC_021163.1	Ca_kabuli_chr04	16085164	AA	CC	1946795487
SNP_P4_43483_16085169	NC_021163.1	Ca_kabuli_chr04	16085169	TT	CC	1946795489
SNP_P4_43484_16085206	NC_021163.1	Ca_kabuli_chr04	16085206	TT	CC	1946795491
SNP_P4_43485_16085297	NC_021163.1	Ca_kabuli_chr04	16085297	AA	GG	1946795493
SNP_P4_43486_16085316	NC_021163.1	Ca_kabuli_chr04	16085316	AA	GG	1946795495
SNP_P4_43487_16085322	NC_021163.1	Ca_kabuli_chr04	16085322	TT	CC	1946795497
SNP_P4_43488_16085375	NC_021163.1	Ca_kabuli_chr04	16085375	TT	CC	1946795499
SNP_P4_43489_16085982	NC_021163.1	Ca_kabuli_chr04	16085982	CC	TT	1946795501
SNP_P4_43491_16086054	NC_021163.1	Ca_kabuli_chr04	16086054	AA	GG	1946795503
SNP_P4_43494_16088500	NC_021163.1	Ca_kabuli_chr04	16088500	AA	GG	1946795505
SNP_P4_43495_16088531	NC_021163.1	Ca_kabuli_chr04	16088531	AA	TT	1946795507
SNP_P4_43496_16088814	NC_021163.1	Ca_kabuli_chr04	16088814	AA	CC	1946795509

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_43498_16089686	NC_021163.1	Ca_kabuli_chr04	16089686	AA	TT	1946795513
SNP_P4_43499_16089712	NC_021163.1	Ca_kabuli_chr04	16089712	GG	TT	1946795515
SNP_P4_43500_16089718	NC_021163.1	Ca_kabuli_chr04	16089718	GG	CC	1946795517
SNP_P4_43501_16089747	NC_021163.1	Ca_kabuli_chr04	16089747	TT	GG	1946795519
SNP_P4_43502_16095961	NC_021163.1	Ca_kabuli_chr04	16095961	GG	TT	1946795521
SNP_P4_43503_16095989	NC_021163.1	Ca_kabuli_chr04	16095989	CC	TT	1946795523
SNP_P4_43504_16096759	NC_021163.1	Ca_kabuli_chr04	16096759	AA	CC	1946795525
SNP_P4_43505_16097775	NC_021163.1	Ca_kabuli_chr04	16097775	CC	TT	1946795527
SNP_P4_43507_16098284	NC_021163.1	Ca_kabuli_chr04	16098284	GG	AA	1946795529
SNP_P4_43508_16098287	NC_021163.1	Ca_kabuli_chr04	16098287	AA	TT	1946795532
SNP_P4_43509_16098294	NC_021163.1	Ca_kabuli_chr04	16098294	CC	TT	1946795534
SNP_P4_43511_16098362	NC_021163.1	Ca_kabuli_chr04	16098362	TT	CC	1946795536
SNP_P4_43512_16098392	NC_021163.1	Ca_kabuli_chr04	16098392	AA	GG	1946795538
SNP_P4_43513_16098426	NC_021163.1	Ca_kabuli_chr04	16098426	GG	AA	1946795540
SNP_P4_43515_16098495	NC_021163.1	Ca_kabuli_chr04	16098495	TT	AA	1946795542
SNP_P4_43516_16098514	NC_021163.1	Ca_kabuli_chr04	16098514	CC	TT	1946795544
SNP_P4_43517_16098548	NC_021163.1	Ca_kabuli_chr04	16098548	GG	AA	1946795546
SNP_P4_43518_16098563	NC_021163.1	Ca_kabuli_chr04	16098563	CC	AA	1946795548
SNP_P4_43519_16098774	NC_021163.1	Ca_kabuli_chr04	16098774	GG	AA	1946795550
SNP_P4_43520_16100038	NC_021163.1	Ca_kabuli_chr04	16100038	GG	AA	1946795552
SNP_P4_43521_16100950	NC_021163.1	Ca_kabuli_chr04	16100950	AA	GG	1946795554
SNP_P4_43522_16101024	NC_021163.1	Ca_kabuli_chr04	16101024	TT	GG	1946795556
SNP_P4_43523_16101338	NC_021163.1	Ca_kabuli_chr04	16101338	AA	GG	1946795558
SNP_P4_43525_16102118	NC_021163.1	Ca_kabuli_chr04	16102118	GG	AA	1946795560
SNP_P4_43526_16102891	NC_021163.1	Ca_kabuli_chr04	16102891	AA	TT	1946795562
SNP_P4_43529_16130942	NC_021163.1	Ca_kabuli_chr04	16130942	TT	AA	1946795564
SNP_P4_43530_16132011	NC_021163.1	Ca_kabuli_chr04	16132011	TT	GG	1946795566
SNP_P4_43533_16146596	NC_021163.1	Ca_kabuli_chr04	16146596	CC	TT	1946795568
SNP_P4_43534_16146601	NC_021163.1	Ca_kabuli_chr04	16146601	AA	GG	1946795570
SNP_P4_43535_16149795	NC_021163.1	Ca_kabuli_chr04	16149795	CC	TT	1946795572
SNP_P4_43536_16155503	NC_021163.1	Ca_kabuli_chr04	16155503	AA	GG	1946795575
SNP_P4_43537_16157243	NC_021163.1	Ca_kabuli_chr04	16157243	GG	AA	1946795577
SNP_P4_43539_16208083	NC_021163.1	Ca_kabuli_chr04	16208083	AA	TT	1946795579
SNP_P4_43542_16249151	NC_021163.1	Ca_kabuli_chr04	16249151	AA	GG	1946795581
SNP_P4_43544_16262073	NC_021163.1	Ca_kabuli_chr04	16262073	AA	GG	1946795583
SNP_P4_43545_16263226	NC_021163.1	Ca_kabuli_chr04	16263226	AA	TT	1946795585
SNP_P4_43546_16287429	NC_021163.1	Ca_kabuli_chr04	16287429	TT	GG	1946795587
SNP_P4_43548_16320237	NC_021163.1	Ca_kabuli_chr04	16320237	AA	CC	1946795589
SNP_P4_43549_16337168	NC_021163.1	Ca_kabuli_chr04	16337168	AA	GG	1946795591
SNP_P4_43550_16347012	NC_021163.1	Ca_kabuli_chr04	16347012	CC	GG	1946795593
SNP_P4_43551_16355503	NC_021163.1	Ca_kabuli_chr04	16355503	CC	TT	1946795595

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_43553_16363936	NC_021163.1	Ca_kabuli_chr04	16363936	AA	TT	1946795600
SNP_P4_43554_16379798	NC_021163.1	Ca_kabuli_chr04	16379798	AA	TT	1946795602
SNP_P4_43555_16379864	NC_021163.1	Ca_kabuli_chr04	16379864	AA	TT	1946795604
SNP_P4_43556_16380510	NC_021163.1	Ca_kabuli_chr04	16380510	TT	CC	1946795606
SNP_P4_43557_16382487	NC_021163.1	Ca_kabuli_chr04	16382487	AA	TT	1946795608
SNP_P4_43558_16399893	NC_021163.1	Ca_kabuli_chr04	16399893	AA	GG	1946795611
SNP_P4_43559_16403337	NC_021163.1	Ca_kabuli_chr04	16403337	TT	AA	1946795613
SNP_P4_43560_16403338	NC_021163.1	Ca_kabuli_chr04	16403338	AA	CC	1946795615
SNP_P4_43561_16404607	NC_021163.1	Ca_kabuli_chr04	16404607	AA	CC	1946795617
SNP_P4_43562_16404619	NC_021163.1	Ca_kabuli_chr04	16404619	CC	TT	1946795619
SNP_P4_43563_16408751	NC_021163.1	Ca_kabuli_chr04	16408751	AA	GG	1946795621
SNP_P4_43564_16408754	NC_021163.1	Ca_kabuli_chr04	16408754	AA	GG	1946795623
SNP_P4_43565_16425821	NC_021163.1	Ca_kabuli_chr04	16425821	TT	AA	1946795626
SNP_P4_43566_16425822	NC_021163.1	Ca_kabuli_chr04	16425822	TT	AA	1946795628
SNP_P4_43567_16465752	NC_021163.1	Ca_kabuli_chr04	16465752	CC	TT	1946795630
SNP_P4_43569_16475717	NC_021163.1	Ca_kabuli_chr04	16475717	GG	AA	1946795632
SNP_P4_43571_16483302	NC_021163.1	Ca_kabuli_chr04	16483302	AA	GG	1946795634
SNP_P4_43572_16493846	NC_021163.1	Ca_kabuli_chr04	16493846	CC	TT	1946795636
SNP_P4_43574_16498518	NC_021163.1	Ca_kabuli_chr04	16498518	CC	TT	1946795638
SNP_P4_43575_16526809	NC_021163.1	Ca_kabuli_chr04	16526809	TT	CC	1946795640
SNP_P4_43577_16560757	NC_021163.1	Ca_kabuli_chr04	16560757	AA	GG	1946795642
SNP_P4_43578_16593865	NC_021163.1	Ca_kabuli_chr04	16593865	CC	TT	1946795644
SNP_P4_43579_16594182	NC_021163.1	Ca_kabuli_chr04	16594182	CC	TT	1946795646
SNP_P4_43580_16600794	NC_021163.1	Ca_kabuli_chr04	16600794	AA	TT	1946795649
SNP_P4_43581_16671857	NC_021163.1	Ca_kabuli_chr04	16671857	GG	AA	1946795651
SNP_P4_43582_16679971	NC_021163.1	Ca_kabuli_chr04	16679971	TT	CC	1946795653
SNP_P4_43583_16683523	NC_021163.1	Ca_kabuli_chr04	16683523	AA	GG	1946795655
SNP_P4_43584_16687953	NC_021163.1	Ca_kabuli_chr04	16687953	GG	AA	1946795657
SNP_P4_43585_16688460	NC_021163.1	Ca_kabuli_chr04	16688460	GG	CC	1946795659
SNP_P4_43586_16688862	NC_021163.1	Ca_kabuli_chr04	16688862	AA	GG	1946795661
SNP_P4_43587_16724278	NC_021163.1	Ca_kabuli_chr04	16724278	AA	GG	1946795664
SNP_P4_43589_16728768	NC_021163.1	Ca_kabuli_chr04	16728768	GG	AA	1946795666
SNP_P4_43590_16728772	NC_021163.1	Ca_kabuli_chr04	16728772	TT	AA	1946795668
SNP_P4_43591_16733718	NC_021163.1	Ca_kabuli_chr04	16733718	TT	CC	1946795670
SNP_P4_43593_16785937	NC_021163.1	Ca_kabuli_chr04	16785937	CC	AA	1946795672
SNP_P4_43595_16803352	NC_021163.1	Ca_kabuli_chr04	16803352	AA	CC	1946795674
SNP_P4_43596_16803536	NC_021163.1	Ca_kabuli_chr04	16803536	GG	AA	1946795676
SNP_P4_43598_16803787	NC_021163.1	Ca_kabuli_chr04	16803787	AA	TT	1946795678
SNP_P4_43599_16803789	NC_021163.1	Ca_kabuli_chr04	16803789	AA	TT	1946795680
SNP_P4_43600_16804549	NC_021163.1	Ca_kabuli_chr04	16804549	AA	GG	1946795682
SNP_P4_43602_16816025	NC_021163.1	Ca_kabuli_chr04	16816025	AA	GG	1946795684

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_43605_16826064	NC_021163.1	Ca_kabuli_chr04	16826064	CC	GG	1946795689
SNP_P4_43606_16826107	NC_021163.1	Ca_kabuli_chr04	16826107	CC	TT	1946795691
SNP_P4_43608_16826272	NC_021163.1	Ca_kabuli_chr04	16826272	GG	AA	1946795694
SNP_P4_43610_16834345	NC_021163.1	Ca_kabuli_chr04	16834345	TT	CC	1946795696
SNP_P4_43611_16834422	NC_021163.1	Ca_kabuli_chr04	16834422	AA	GG	1946795698
SNP_P4_43613_16862005	NC_021163.1	Ca_kabuli_chr04	16862005	GG	AA	1946795700
SNP_P4_43615_16879410	NC_021163.1	Ca_kabuli_chr04	16879410	AA	GG	1946795702
SNP_P4_43616_16879411	NC_021163.1	Ca_kabuli_chr04	16879411	AA	GG	1946795705
SNP_P4_43617_16879754	NC_021163.1	Ca_kabuli_chr04	16879754	AA	GG	1946795707
SNP_P4_43618_16883369	NC_021163.1	Ca_kabuli_chr04	16883369	CC	TT	1946795709
SNP_P4_43619_16897460	NC_021163.1	Ca_kabuli_chr04	16897460	AA	CC	1946795711
SNP_P4_43620_16906791	NC_021163.1	Ca_kabuli_chr04	16906791	GG	AA	1946795713
SNP_P4_43621_16906801	NC_021163.1	Ca_kabuli_chr04	16906801	CC	AA	1946795715
SNP_P4_43623_16936300	NC_021163.1	Ca_kabuli_chr04	16936300	CC	TT	1946795717
SNP_P4_43624_16936896	NC_021163.1	Ca_kabuli_chr04	16936896	TT	AA	1946795719
SNP_P4_43625_16936912	NC_021163.1	Ca_kabuli_chr04	16936912	TT	CC	1946795721
SNP_P4_43626_16936947	NC_021163.1	Ca_kabuli_chr04	16936947	TT	CC	1946795723
SNP_P4_43628_16943239	NC_021163.1	Ca_kabuli_chr04	16943239	GG	AA	1946795725
SNP_P4_43629_16943240	NC_021163.1	Ca_kabuli_chr04	16943240	GG	AA	1946795727
SNP_P4_43632_16960812	NC_021163.1	Ca_kabuli_chr04	16960812	CC	AA	1946795729
SNP_P4_43633_16961142	NC_021163.1	Ca_kabuli_chr04	16961142	TT	CC	1946795731
SNP_P4_43634_16963533	NC_021163.1	Ca_kabuli_chr04	16963533	TT	CC	1946795733
SNP_P4_43635_16963563	NC_021163.1	Ca_kabuli_chr04	16963563	GG	AA	1946795735
SNP_P4_43636_16971245	NC_021163.1	Ca_kabuli_chr04	16971245	AA	TT	1946795737
SNP_P4_43637_16978881	NC_021163.1	Ca_kabuli_chr04	16978881	AA	CC	1946795739
SNP_P4_43639_16985138	NC_021163.1	Ca_kabuli_chr04	16985138	CC	TT	1946795741
SNP_P4_43640_16987305	NC_021163.1	Ca_kabuli_chr04	16987305	AA	CC	1946795743
SNP_P4_43641_16987383	NC_021163.1	Ca_kabuli_chr04	16987383	TT	CC	1946795745
SNP_P4_43642_16990405	NC_021163.1	Ca_kabuli_chr04	16990405	GG	AA	1946795747
SNP_P4_43643_16991407	NC_021163.1	Ca_kabuli_chr04	16991407	GG	CC	1946795749
SNP_P4_43644_16993406	NC_021163.1	Ca_kabuli_chr04	16993406	AA	CC	1946795751
SNP_P4_43646_16998825	NC_021163.1	Ca_kabuli_chr04	16998825	GG	AA	1946795753
SNP_P4_43647_16999054	NC_021163.1	Ca_kabuli_chr04	16999054	AA	TT	1946795755
SNP_P4_43648_16999409	NC_021163.1	Ca_kabuli_chr04	16999409	GG	AA	1946795757
SNP_P4_43649_16999529	NC_021163.1	Ca_kabuli_chr04	16999529	CC	AA	1946795759
SNP_P4_43650_17000273	NC_021163.1	Ca_kabuli_chr04	17000273	CC	TT	1946795761
SNP_P4_43651_17001121	NC_021163.1	Ca_kabuli_chr04	17001121	GG	AA	1946795763
SNP_P4_43653_17001487	NC_021163.1	Ca_kabuli_chr04	17001487	GG	CC	1946795765
SNP_P4_43656_17003110	NC_021163.1	Ca_kabuli_chr04	17003110	CC	TT	1946795767
SNP_P4_43657_17003119	NC_021163.1	Ca_kabuli_chr04	17003119	AA	CC	1946795769
SNP_P4_43658_17003759	NC_021163.1	Ca_kabuli_chr04	17003759	TT	GG	1946795771

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_43661_17006187	NC_021163.1	Ca_kabuli_chr04	17006187	CC	TT	1946795775
SNP_P4_43662_17007318	NC_021163.1	Ca_kabuli_chr04	17007318	AA	TT	1946795777
SNP_P4_43663_17007397	NC_021163.1	Ca_kabuli_chr04	17007397	TT	GG	1946795779
SNP_P4_43664_17007444	NC_021163.1	Ca_kabuli_chr04	17007444	AA	CC	1946795781
SNP_P4_43665_17007695	NC_021163.1	Ca_kabuli_chr04	17007695	CC	TT	1946795783
SNP_P4_43666_17007852	NC_021163.1	Ca_kabuli_chr04	17007852	AA	CC	1946795786
SNP_P4_43667_17008032	NC_021163.1	Ca_kabuli_chr04	17008032	GG	TT	1946795788
SNP_P4_43668_17008379	NC_021163.1	Ca_kabuli_chr04	17008379	GG	AA	1946795790
SNP_P4_43671_17011218	NC_021163.1	Ca_kabuli_chr04	17011218	TT	GG	1946795792
SNP_P4_43672_17011438	NC_021163.1	Ca_kabuli_chr04	17011438	GG	TT	1946795794
SNP_P4_43674_17012112	NC_021163.1	Ca_kabuli_chr04	17012112	TT	GG	1946795796
SNP_P4_43675_17012145	NC_021163.1	Ca_kabuli_chr04	17012145	AA	CC	1946795798
SNP_P4_43676_17012674	NC_021163.1	Ca_kabuli_chr04	17012674	TT	CC	1946795800
SNP_P4_43677_17012688	NC_021163.1	Ca_kabuli_chr04	17012688	AA	GG	1946795802
SNP_P4_43678_17013283	NC_021163.1	Ca_kabuli_chr04	17013283	CC	TT	1946795805
SNP_P4_43680_17015429	NC_021163.1	Ca_kabuli_chr04	17015429	TT	CC	1946795807
SNP_P4_43681_17015434	NC_021163.1	Ca_kabuli_chr04	17015434	CC	TT	1946795809
SNP_P4_43682_17015542	NC_021163.1	Ca_kabuli_chr04	17015542	AA	TT	1946795811
SNP_P4_43684_17015703	NC_021163.1	Ca_kabuli_chr04	17015703	GG	AA	1946795813
SNP_P4_43685_17015909	NC_021163.1	Ca_kabuli_chr04	17015909	TT	GG	1946795815
SNP_P4_43687_17015954	NC_021163.1	Ca_kabuli_chr04	17015954	TT	AA	1946795817
SNP_P4_43688_17016151	NC_021163.1	Ca_kabuli_chr04	17016151	AA	GG	1946795819
SNP_P4_43689_17016230	NC_021163.1	Ca_kabuli_chr04	17016230	GG	AA	1946795821
SNP_P4_43690_17016232	NC_021163.1	Ca_kabuli_chr04	17016232	GG	CC	1946795823
SNP_P4_43691_17016262	NC_021163.1	Ca_kabuli_chr04	17016262	CC	TT	1946795825
SNP_P4_43692_17016285	NC_021163.1	Ca_kabuli_chr04	17016285	TT	CC	1946795827
SNP_P4_43693_17016754	NC_021163.1	Ca_kabuli_chr04	17016754	TT	CC	1946795829
SNP_P4_43694_17018011	NC_021163.1	Ca_kabuli_chr04	17018011	AA	TT	1946795831
SNP_P4_43695_17018194	NC_021163.1	Ca_kabuli_chr04	17018194	GG	AA	1946795833
SNP_P4_43696_17018207	NC_021163.1	Ca_kabuli_chr04	17018207	AA	TT	1946795835
SNP_P4_43697_17018457	NC_021163.1	Ca_kabuli_chr04	17018457	CC	TT	1946795837
SNP_P4_43698_17018831	NC_021163.1	Ca_kabuli_chr04	17018831	AA	GG	1946795839
SNP_P4_43700_17019480	NC_021163.1	Ca_kabuli_chr04	17019480	AA	CC	1946795841
SNP_P4_43701_17019486	NC_021163.1	Ca_kabuli_chr04	17019486	TT	CC	1946795843
SNP_P4_43702_17021038	NC_021163.1	Ca_kabuli_chr04	17021038	CC	TT	1946795846
SNP_P4_43703_17021189	NC_021163.1	Ca_kabuli_chr04	17021189	TT	GG	1946795848
SNP_P4_43704_17021216	NC_021163.1	Ca_kabuli_chr04	17021216	CC	GG	1946795850
SNP_P4_43705_17021225	NC_021163.1	Ca_kabuli_chr04	17021225	CC	TT	1946795852
SNP_P4_43706_17021239	NC_021163.1	Ca_kabuli_chr04	17021239	TT	AA	1946795854
SNP_P4_43707_17023158	NC_021163.1	Ca_kabuli_chr04	17023158	AA	TT	1946795856
SNP_P4_43708_17023910	NC_021163.1	Ca_kabuli_chr04	17023910	CC	TT	1946795858

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_43711_17025588	NC_021163.1	Ca_kabuli_chr04	17025588	TT	CC	1946795862
SNP_P4_43714_17030566	NC_021163.1	Ca_kabuli_chr04	17030566	GG	AA	1946795865
SNP_P4_43715_17031485	NC_021163.1	Ca_kabuli_chr04	17031485	CC	AA	1946795867
SNP_P4_43716_17031612	NC_021163.1	Ca_kabuli_chr04	17031612	AA	GG	1946795869
SNP_P4_43718_17036719	NC_021163.1	Ca_kabuli_chr04	17036719	AA	TT	1946795871
SNP_P4_43719_17037314	NC_021163.1	Ca_kabuli_chr04	17037314	AA	CC	1946795873
SNP_P4_43720_17037355	NC_021163.1	Ca_kabuli_chr04	17037355	CC	GG	1946795875
SNP_P4_43722_17037485	NC_021163.1	Ca_kabuli_chr04	17037485	TT	GG	1946795877
SNP_P4_43723_17037544	NC_021163.1	Ca_kabuli_chr04	17037544	AA	TT	1946795879
SNP_P4_43724_17040837	NC_021163.1	Ca_kabuli_chr04	17040837	CC	TT	1946795881
SNP_P4_43726_17042551	NC_021163.1	Ca_kabuli_chr04	17042551	CC	TT	1946795883
SNP_P4_43727_17044210	NC_021163.1	Ca_kabuli_chr04	17044210	CC	TT	1946795885
SNP_P4_43728_17044936	NC_021163.1	Ca_kabuli_chr04	17044936	CC	TT	1946795887
SNP_P4_43729_17045005	NC_021163.1	Ca_kabuli_chr04	17045005	TT	CC	1946795890
SNP_P4_43730_17045240	NC_021163.1	Ca_kabuli_chr04	17045240	AA	GG	1946795892
SNP_P4_43731_17045361	NC_021163.1	Ca_kabuli_chr04	17045361	TT	CC	1946795894
SNP_P4_43732_17045416	NC_021163.1	Ca_kabuli_chr04	17045416	CC	TT	1946795896
SNP_P4_43733_17045428	NC_021163.1	Ca_kabuli_chr04	17045428	TT	AA	1946795898
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SNP_P4_43735_17046874	NC_021163.1	Ca_kabuli_chr04	17046874	CC	TT	1946795902
SNP_P4_43738_17049599	NC_021163.1	Ca_kabuli_chr04	17049599	TT	CC	1946795904
SNP_P4_43739_17050149	NC_021163.1	Ca_kabuli_chr04	17050149	GG	TT	1946795907
SNP_P4_43740_17052241	NC_021163.1	Ca_kabuli_chr04	17052241	TT	GG	1946795909
SNP_P4_43741_17058820	NC_021163.1	Ca_kabuli_chr04	17058820	CC	TT	1946795911
SNP_P4_43742_17058878	NC_021163.1	Ca_kabuli_chr04	17058878	TT	AA	1946795913
SNP_P4_43743_17061840	NC_021163.1	Ca_kabuli_chr04	17061840	GG	CC	1946795915
SNP_P4_43744_17063788	NC_021163.1	Ca_kabuli_chr04	17063788	CC	TT	1946795917
SNP_P4_43745_17064735	NC_021163.1	Ca_kabuli_chr04	17064735	AA	GG	1946795919
SNP_P4_43746_17064832	NC_021163.1	Ca_kabuli_chr04	17064832	GG	AA	1946795921
SNP_P4_43747_17066730	NC_021163.1	Ca_kabuli_chr04	17066730	AA	TT	1946795923
SNP_P4_43748_17067438	NC_021163.1	Ca_kabuli_chr04	17067438	GG	AA	1946795926
SNP_P4_43749_17067453	NC_021163.1	Ca_kabuli_chr04	17067453	GG	AA	1946795928
SNP_P4_43750_17067798	NC_021163.1	Ca_kabuli_chr04	17067798	CC	AA	1946795929
SNP_P4_43751_17068503	NC_021163.1	Ca_kabuli_chr04	17068503	CC	TT	1946795931
SNP_P4_43752_17071708	NC_021163.1	Ca_kabuli_chr04	17071708	TT	AA	1946795933
SNP_P4_43754_17073989	NC_021163.1	Ca_kabuli_chr04	17073989	AA	GG	1946795935
SNP_P4_43755_17077875	NC_021163.1	Ca_kabuli_chr04	17077875	GG	AA	1946795937
SNP_P4_43756_17078996	NC_021163.1	Ca_kabuli_chr04	17078996	CC	TT	1946795939
SNP_P4_43757_17081211	NC_021163.1	Ca_kabuli_chr04	17081211	TT	CC	1946795941
SNP_P4_43758_17081458	NC_021163.1	Ca_kabuli_chr04	17081458	GG	AA	1946795943
SNP_P4_43759_17081489	NC_021163.1	Ca_kabuli_chr04	17081489	TT	CC	1946795945

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_43762_17081535	NC_021163.1	Ca_kabuli_chr04	17081535	CC	TT	1946795952
SNP_P4_43763_17081536	NC_021163.1	Ca_kabuli_chr04	17081536	AA	GG	1946795954
SNP_P4_43764_17081546	NC_021163.1	Ca_kabuli_chr04	17081546	CC	TT	1946795956
SNP_P4_43765_17081588	NC_021163.1	Ca_kabuli_chr04	17081588	GG	AA	1946795958
SNP_P4_43766_17081628	NC_021163.1	Ca_kabuli_chr04	17081628	AA	GG	1946795960
SNP_P4_43767_17081639	NC_021163.1	Ca_kabuli_chr04	17081639	AA	GG	1946795962
SNP_P4_43768_17081662	NC_021163.1	Ca_kabuli_chr04	17081662	CC	TT	1946795964
SNP_P4_43769_17081694	NC_021163.1	Ca_kabuli_chr04	17081694	TT	GG	1946795967
SNP_P4_43772_17081945	NC_021163.1	Ca_kabuli_chr04	17081945	AA	TT	1946795969
SNP_P4_43773_17081985	NC_021163.1	Ca_kabuli_chr04	17081985	AA	TT	1946795971
SNP_P4_43775_17082019	NC_021163.1	Ca_kabuli_chr04	17082019	AA	TT	1946795973
SNP_P4_43776_17086904	NC_021163.1	Ca_kabuli_chr04	17086904	GG	AA	1946795975
SNP_P4_43777_17086966	NC_021163.1	Ca_kabuli_chr04	17086966	TT	GG	1946795978
SNP_P4_43778_17087031	NC_021163.1	Ca_kabuli_chr04	17087031	GG	AA	1946795980
SNP_P4_43779_17087772	NC_021163.1	Ca_kabuli_chr04	17087772	CC	TT	1946795982
SNP_P4_43780_17087866	NC_021163.1	Ca_kabuli_chr04	17087866	AA	GG	1946795984
SNP_P4_43781_17087969	NC_021163.1	Ca_kabuli_chr04	17087969	CC	TT	1946795986
SNP_P4_43782_17087979	NC_021163.1	Ca_kabuli_chr04	17087979	TT	AA	1946795988
SNP_P4_43783_17088154	NC_021163.1	Ca_kabuli_chr04	17088154	AA	CC	1946795991
SNP_P4_43784_17088176	NC_021163.1	Ca_kabuli_chr04	17088176	TT	AA	1946795993
SNP_P4_43785_17088202	NC_021163.1	Ca_kabuli_chr04	17088202	CC	TT	1946795995
SNP_P4_43786_17088269	NC_021163.1	Ca_kabuli_chr04	17088269	CC	TT	1946795997
SNP_P4_43787_17089240	NC_021163.1	Ca_kabuli_chr04	17089240	GG	TT	1946796000
SNP_P4_43788_17089248	NC_021163.1	Ca_kabuli_chr04	17089248	TT	CC	1946796002
SNP_P4_43789_17089251	NC_021163.1	Ca_kabuli_chr04	17089251	TT	CC	1946796004
SNP_P4_43790_17095041	NC_021163.1	Ca_kabuli_chr04	17095041	GG	AA	1946796006
SNP_P4_43791_17095262	NC_021163.1	Ca_kabuli_chr04	17095262	AA	GG	1946796008
SNP_P4_43792_17095714	NC_021163.1	Ca_kabuli_chr04	17095714	AA	TT	1946796010
SNP_P4_43794_17095977	NC_021163.1	Ca_kabuli_chr04	17095977	GG	AA	1946796012
SNP_P4_43795_17096010	NC_021163.1	Ca_kabuli_chr04	17096010	GG	AA	1946796014
SNP_P4_43797_17096081	NC_021163.1	Ca_kabuli_chr04	17096081	TT	CC	1946796017
SNP_P4_43798_17096125	NC_021163.1	Ca_kabuli_chr04	17096125	GG	AA	1946796019
SNP_P4_43799_17096298	NC_021163.1	Ca_kabuli_chr04	17096298	GG	AA	1946796021
SNP_P4_43800_17096299	NC_021163.1	Ca_kabuli_chr04	17096299	TT	CC	1946796023
SNP_P4_43801_17096920	NC_021163.1	Ca_kabuli_chr04	17096920	GG	CC	1946796025
SNP_P4_43802_17096928	NC_021163.1	Ca_kabuli_chr04	17096928	AA	CC	1946796027
SNP_P4_43803_17096939	NC_021163.1	Ca_kabuli_chr04	17096939	TT	CC	1946796029
SNP_P4_43804_17098118	NC_021163.1	Ca_kabuli_chr04	17098118	TT	CC	1946796031
SNP_P4_43805_17098435	NC_021163.1	Ca_kabuli_chr04	17098435	GG	CC	1946796033
SNP_P4_43806_17098557	NC_021163.1	Ca_kabuli_chr04	17098557	CC	AA	1946796035

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_43808_17099356	NC_021163.1	Ca_kabuli_chr04	17099356	GG	AA	1946796039
SNP_P4_43809_17099366	NC_021163.1	Ca_kabuli_chr04	17099366	GG	AA	1946796042
SNP_P4_43810_17099643	NC_021163.1	Ca_kabuli_chr04	17099643	GG	AA	1946796044
SNP_P4_43811_17099664	NC_021163.1	Ca_kabuli_chr04	17099664	TT	GG	1946796046
SNP_P4_43812_17101475	NC_021163.1	Ca_kabuli_chr04	17101475	CC	TT	1946796048
SNP_P4_43814_17102203	NC_021163.1	Ca_kabuli_chr04	17102203	CC	TT	1946796050
SNP_P4_43815_17102396	NC_021163.1	Ca_kabuli_chr04	17102396	GG	CC	1946796052
SNP_P4_43816_17103722	NC_021163.1	Ca_kabuli_chr04	17103722	GG	AA	1946796054
SNP_P4_43817_17103728	NC_021163.1	Ca_kabuli_chr04	17103728	AA	GG	1946796057
SNP_P4_43818_17103748	NC_021163.1	Ca_kabuli_chr04	17103748	CC	TT	1946796059
SNP_P4_43819_17103771	NC_021163.1	Ca_kabuli_chr04	17103771	TT	GG	1946796061
SNP_P4_43820_17105292	NC_021163.1	Ca_kabuli_chr04	17105292	TT	CC	1946796063
SNP_P4_43821_17105715	NC_021163.1	Ca_kabuli_chr04	17105715	AA	CC	1946796065
SNP_P4_43822_17105765	NC_021163.1	Ca_kabuli_chr04	17105765	GG	AA	1946796067
SNP_P4_43823_17114382	NC_021163.1	Ca_kabuli_chr04	17114382	CC	TT	1946796069
SNP_P4_43824_17114957	NC_021163.1	Ca_kabuli_chr04	17114957	AA	GG	1946796071
SNP_P4_43826_17115296	NC_021163.1	Ca_kabuli_chr04	17115296	AA	GG	1946796073
SNP_P4_43827_17115324	NC_021163.1	Ca_kabuli_chr04	17115324	TT	AA	1946796076
SNP_P4_43828_17116468	NC_021163.1	Ca_kabuli_chr04	17116468	TT	CC	1946796078
SNP_P4_43829_17130893	NC_021163.1	Ca_kabuli_chr04	17130893	GG	AA	1946796080
SNP_P4_43831_17131256	NC_021163.1	Ca_kabuli_chr04	17131256	TT	GG	1946796082
SNP_P4_43832_17131304	NC_021163.1	Ca_kabuli_chr04	17131304	GG	AA	1946796084
SNP_P4_43833_17131403	NC_021163.1	Ca_kabuli_chr04	17131403	AA	GG	1946796086
SNP_P4_43834_17131682	NC_021163.1	Ca_kabuli_chr04	17131682	AA	CC	1946796088
SNP_P4_43835_17131739	NC_021163.1	Ca_kabuli_chr04	17131739	AA	GG	1946796090
SNP_P4_43836_17131977	NC_021163.1	Ca_kabuli_chr04	17131977	CC	TT	1946796092
SNP_P4_43837_17132190	NC_021163.1	Ca_kabuli_chr04	17132190	AA	GG	1946796094
SNP_P4_43838_17133083	NC_021163.1	Ca_kabuli_chr04	17133083	GG	AA	1946796096
SNP_P4_43839_17133336	NC_021163.1	Ca_kabuli_chr04	17133336	TT	CC	1946796098
SNP_P4_43840_17133360	NC_021163.1	Ca_kabuli_chr04	17133360	TT	CC	1946796100
SNP_P4_43841_17133450	NC_021163.1	Ca_kabuli_chr04	17133450	CC	TT	1946796102
SNP_P4_43842_17133466	NC_021163.1	Ca_kabuli_chr04	17133466	TT	CC	1946796104
SNP_P4_43844_17134135	NC_021163.1	Ca_kabuli_chr04	17134135	TT	AA	1946796106
SNP_P4_43845_17134444	NC_021163.1	Ca_kabuli_chr04	17134444	AA	GG	1946796108
SNP_P4_43846_17134450	NC_021163.1	Ca_kabuli_chr04	17134450	AA	CC	1946796110
SNP_P4_43847_17134476	NC_021163.1	Ca_kabuli_chr04	17134476	CC	AA	1946796113
SNP_P4_43848_17134511	NC_021163.1	Ca_kabuli_chr04	17134511	TT	CC	1946796115
SNP_P4_43849_17135330	NC_021163.1	Ca_kabuli_chr04	17135330	GG	AA	1946796117
SNP_P4_43850_17135633	NC_021163.1	Ca_kabuli_chr04	17135633	AA	GG	1946796119
SNP_P4_43851_17135664	NC_021163.1	Ca_kabuli_chr04	17135664	CC	TT	1946796121
SNP_P4_43852_17136974	NC_021163.1	Ca_kabuli_chr04	17136974	GG	AA	1946796123

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_43855_17140399	NC_021163.1	Ca_kabuli_chr04	17140399	AA	GG	1946796130
SNP_P4_43856_17140440	NC_021163.1	Ca_kabuli_chr04	17140440	GG	CC	1946796132
SNP_P4_43859_17142450	NC_021163.1	Ca_kabuli_chr04	17142450	CC	AA	1946796134
SNP_P4_43860_17143399	NC_021163.1	Ca_kabuli_chr04	17143399	CC	TT	1946796136
SNP_P4_43861_17143417	NC_021163.1	Ca_kabuli_chr04	17143417	GG	AA	1946796138
SNP_P4_43862_17143445	NC_021163.1	Ca_kabuli_chr04	17143445	CC	TT	1946796140
SNP_P4_43863_17143451	NC_021163.1	Ca_kabuli_chr04	17143451	GG	AA	1946796142
SNP_P4_43864_17143452	NC_021163.1	Ca_kabuli_chr04	17143452	GG	AA	1946796144
SNP_P4_43865_17143483	NC_021163.1	Ca_kabuli_chr04	17143483	GG	AA	1946796145
SNP_P4_43866_17143627	NC_021163.1	Ca_kabuli_chr04	17143627	AA	GG	1946796146
SNP_P4_43868_17143697	NC_021163.1	Ca_kabuli_chr04	17143697	GG	TT	1946796147
SNP_P4_43869_17143717	NC_021163.1	Ca_kabuli_chr04	17143717	GG	AA	1946796149
SNP_P4_43870_17143737	NC_021163.1	Ca_kabuli_chr04	17143737	GG	TT	1946796151
SNP_P4_43871_17143739	NC_021163.1	Ca_kabuli_chr04	17143739	AA	GG	1946796153
SNP_P4_43872_17143775	NC_021163.1	Ca_kabuli_chr04	17143775	CC	TT	1946796155
SNP_P4_43873_17143940	NC_021163.1	Ca_kabuli_chr04	17143940	CC	TT	1946796157
SNP_P4_43874_17145908	NC_021163.1	Ca_kabuli_chr04	17145908	GG	CC	1946796159
SNP_P4_43875_17145962	NC_021163.1	Ca_kabuli_chr04	17145962	AA	CC	1946796161
SNP_P4_43876_17146063	NC_021163.1	Ca_kabuli_chr04	17146063	TT	CC	1946796163
SNP_P4_43877_17146127	NC_021163.1	Ca_kabuli_chr04	17146127	CC	TT	1946796165
SNP_P4_43880_17146427	NC_021163.1	Ca_kabuli_chr04	17146427	TT	AA	1946796167
SNP_P4_43881_17146528	NC_021163.1	Ca_kabuli_chr04	17146528	TT	AA	1946796169
SNP_P4_43882_17148145	NC_021163.1	Ca_kabuli_chr04	17148145	GG	AA	1946796172
SNP_P4_43883_17148434	NC_021163.1	Ca_kabuli_chr04	17148434	AA	GG	1946796174
SNP_P4_43884_17148894	NC_021163.1	Ca_kabuli_chr04	17148894	GG	CC	1946796176
SNP_P4_43885_17149190	NC_021163.1	Ca_kabuli_chr04	17149190	TT	CC	1946796178
SNP_P4_43886_17149498	NC_021163.1	Ca_kabuli_chr04	17149498	CC	TT	1946796180
SNP_P4_43887_17150293	NC_021163.1	Ca_kabuli_chr04	17150293	TT	GG	1946796182
SNP_P4_43888_17150467	NC_021163.1	Ca_kabuli_chr04	17150467	TT	AA	1946796184
SNP_P4_43889_17151129	NC_021163.1	Ca_kabuli_chr04	17151129	CC	TT	1946796186
SNP_P4_43890_17151432	NC_021163.1	Ca_kabuli_chr04	17151432	CC	TT	1946796188
SNP_P4_43892_17154033	NC_021163.1	Ca_kabuli_chr04	17154033	AA	GG	1946796190
SNP_P4_43893_17154455	NC_021163.1	Ca_kabuli_chr04	17154455	AA	GG	1946796192
SNP_P4_43894_17155519	NC_021163.1	Ca_kabuli_chr04	17155519	AA	GG	1946796194
SNP_P4_43895_17157245	NC_021163.1	Ca_kabuli_chr04	17157245	AA	GG	1946796197
SNP_P4_43897_17158098	NC_021163.1	Ca_kabuli_chr04	17158098	TT	CC	1946796199
SNP_P4_43898_17158313	NC_021163.1	Ca_kabuli_chr04	17158313	GG	AA	1946796201
SNP_P4_43899_17158336	NC_021163.1	Ca_kabuli_chr04	17158336	GG	AA	1946796203
SNP_P4_43901_17158376	NC_021163.1	Ca_kabuli_chr04	17158376	GG	CC	1946796204
SNP_P4_43902_17158546	NC_021163.1	Ca_kabuli_chr04	17158546	TT	CC	1946796207

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_43904_17158561	NC_021163.1	Ca_kabuli_chr04	17158561	TT	CC	1946796211
SNP_P4_43905_17158568	NC_021163.1	Ca_kabuli_chr04	17158568	TT	CC	1946796213
SNP_P4_43906_17158697	NC_021163.1	Ca_kabuli_chr04	17158697	AA	GG	1946796215
SNP_P4_43908_17161685	NC_021163.1	Ca_kabuli_chr04	17161685	TT	AA	1946796217
SNP_P4_43909_17163440	NC_021163.1	Ca_kabuli_chr04	17163440	CC	AA	1946796220
SNP_P4_43910_17166319	NC_021163.1	Ca_kabuli_chr04	17166319	CC	TT	1946796222
SNP_P4_43911_17166333	NC_021163.1	Ca_kabuli_chr04	17166333	CC	AA	1946796224
SNP_P4_43912_17166356	NC_021163.1	Ca_kabuli_chr04	17166356	TT	CC	1946796226
SNP_P4_43913_17167420	NC_021163.1	Ca_kabuli_chr04	17167420	TT	CC	1946796228
SNP_P4_43914_17167464	NC_021163.1	Ca_kabuli_chr04	17167464	CC	TT	1946796230
SNP_P4_43915_17167719	NC_021163.1	Ca_kabuli_chr04	17167719	TT	CC	1946796232
SNP_P4_43916_17167728	NC_021163.1	Ca_kabuli_chr04	17167728	AA	TT	1946796234
SNP_P4_43917_17167766	NC_021163.1	Ca_kabuli_chr04	17167766	CC	TT	1946796236
SNP_P4_43918_17167767	NC_021163.1	Ca_kabuli_chr04	17167767	AA	GG	1946796238
SNP_P4_43919_17167918	NC_021163.1	Ca_kabuli_chr04	17167918	TT	GG	1946796241
SNP_P4_43920_17167998	NC_021163.1	Ca_kabuli_chr04	17167998	TT	AA	1946796243
SNP_P4_43922_17168369	NC_021163.1	Ca_kabuli_chr04	17168369	CC	TT	1946796245
SNP_P4_43923_17168455	NC_021163.1	Ca_kabuli_chr04	17168455	GG	AA	1946796247
SNP_P4_43924_17168531	NC_021163.1	Ca_kabuli_chr04	17168531	TT	GG	1946796249
SNP_P4_43925_17169556	NC_021163.1	Ca_kabuli_chr04	17169556	TT	CC	1946796251
SNP_P4_43926_17169629	NC_021163.1	Ca_kabuli_chr04	17169629	AA	GG	1946796253
SNP_P4_43927_17169745	NC_021163.1	Ca_kabuli_chr04	17169745	TT	CC	1946796255
SNP_P4_43928_17169860	NC_021163.1	Ca_kabuli_chr04	17169860	CC	TT	1946796257
SNP_P4_43929_17169901	NC_021163.1	Ca_kabuli_chr04	17169901	AA	GG	1946796259
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SNP_P4_43932_17170987	NC_021163.1	Ca_kabuli_chr04	17170987	TT	CC	1946796265
SNP_P4_43933_17170998	NC_021163.1	Ca_kabuli_chr04	17170998	TT	CC	1946796268
SNP_P4_43934_17171012	NC_021163.1	Ca_kabuli_chr04	17171012	AA	GG	1946796270
SNP_P4_43935_17171013	NC_021163.1	Ca_kabuli_chr04	17171013	GG	AA	1946796272
SNP_P4_43936_17171081	NC_021163.1	Ca_kabuli_chr04	17171081	AA	GG	1946796274
SNP_P4_43937_17171092	NC_021163.1	Ca_kabuli_chr04	17171092	GG	TT	1946796276
SNP_P4_43938_17171113	NC_021163.1	Ca_kabuli_chr04	17171113	CC	GG	1946796278
SNP_P4_43939_17171120	NC_021163.1	Ca_kabuli_chr04	17171120	AA	GG	1946796280
SNP_P4_43940_17171266	NC_021163.1	Ca_kabuli_chr04	17171266	CC	TT	1946796282
SNP_P4_43941_17171287	NC_021163.1	Ca_kabuli_chr04	17171287	GG	AA	1946796284
SNP_P4_43942_17171298	NC_021163.1	Ca_kabuli_chr04	17171298	CC	TT	1946796286
SNP_P4_43943_17171367	NC_021163.1	Ca_kabuli_chr04	17171367	CC	TT	1946796288
SNP_P4_43945_17171526	NC_021163.1	Ca_kabuli_chr04	17171526	AA	GG	1946796290
SNP_P4_43946_17172048	NC_021163.1	Ca_kabuli_chr04	17172048	TT	AA	1946796292
SNP_P4_43947_17172099	NC_021163.1	Ca_kabuli_chr04	17172099	AA	GG	1946796294

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_43950_17172801	NC_021163.1	Ca_kabuli_chr04	17172801	GG	TT	1946796300
SNP_P4_43951_17185175	NC_021163.1	Ca_kabuli_chr04	17185175	AA	GG	1946796302
SNP_P4_43952_17185215	NC_021163.1	Ca_kabuli_chr04	17185215	TT	AA	1946796304
SNP_P4_43953_17185284	NC_021163.1	Ca_kabuli_chr04	17185284	CC	TT	1946796306
SNP_P4_43954_17185444	NC_021163.1	Ca_kabuli_chr04	17185444	CC	TT	1946796308
SNP_P4_43955_17185447	NC_021163.1	Ca_kabuli_chr04	17185447	AA	GG	1946796310
SNP_P4_43956_17185449	NC_021163.1	Ca_kabuli_chr04	17185449	AA	GG	1946796312
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SNP_P4_43958_17185504	NC_021163.1	Ca_kabuli_chr04	17185504	AA	TT	1946796317
SNP_P4_43959_17185516	NC_021163.1	Ca_kabuli_chr04	17185516	TT	AA	1946796319
SNP_P4_43960_17185518	NC_021163.1	Ca_kabuli_chr04	17185518	AA	TT	1946796322
SNP_P4_43961_17186721	NC_021163.1	Ca_kabuli_chr04	17186721	GG	AA	1946796324
SNP_P4_43962_17186742	NC_021163.1	Ca_kabuli_chr04	17186742	AA	GG	1946796326
SNP_P4_43964_17186888	NC_021163.1	Ca_kabuli_chr04	17186888	GG	AA	1946796328
SNP_P4_43965_17186901	NC_021163.1	Ca_kabuli_chr04	17186901	GG	AA	1946796330
SNP_P4_43966_17186903	NC_021163.1	Ca_kabuli_chr04	17186903	TT	CC	1946796332
SNP_P4_43967_17186910	NC_021163.1	Ca_kabuli_chr04	17186910	AA	TT	1946796334
SNP_P4_43969_17187222	NC_021163.1	Ca_kabuli_chr04	17187222	TT	GG	1946796336
SNP_P4_43970_17187385	NC_021163.1	Ca_kabuli_chr04	17187385	GG	AA	1946796339
SNP_P4_43971_17187713	NC_021163.1	Ca_kabuli_chr04	17187713	AA	TT	1946796341
SNP_P4_43972_17187740	NC_021163.1	Ca_kabuli_chr04	17187740	TT	CC	1946796343
SNP_P4_43973_17187908	NC_021163.1	Ca_kabuli_chr04	17187908	GG	AA	1946796345
SNP_P4_43974_17193106	NC_021163.1	Ca_kabuli_chr04	17193106	TT	CC	1946796347
SNP_P4_43976_17193804	NC_021163.1	Ca_kabuli_chr04	17193804	GG	TT	1946796349
SNP_P4_43977_17195431	NC_021163.1	Ca_kabuli_chr04	17195431	TT	GG	1946796351
SNP_P4_43979_17195635	NC_021163.1	Ca_kabuli_chr04	17195635	AA	TT	1946796353
SNP_P4_43980_17195836	NC_021163.1	Ca_kabuli_chr04	17195836	GG	AA	1946796355
SNP_P4_43981_17195974	NC_021163.1	Ca_kabuli_chr04	17195974	TT	AA	1946796358
SNP_P4_43982_17195975	NC_021163.1	Ca_kabuli_chr04	17195975	AA	TT	1946796360
SNP_P4_43984_17197233	NC_021163.1	Ca_kabuli_chr04	17197233	GG	AA	1946796362
SNP_P4_43986_17200658	NC_021163.1	Ca_kabuli_chr04	17200658	AA	GG	1946796364
SNP_P4_43987_17201153	NC_021163.1	Ca_kabuli_chr04	17201153	AA	TT	1946796366
SNP_P4_43988_17201158	NC_021163.1	Ca_kabuli_chr04	17201158	AA	TT	1946796368
SNP_P4_43989_17201166	NC_021163.1	Ca_kabuli_chr04	17201166	AA	GG	1946796370
SNP_P4_43990_17201283	NC_021163.1	Ca_kabuli_chr04	17201283	TT	AA	1946796372
SNP_P4_43991_17201336	NC_021163.1	Ca_kabuli_chr04	17201336	GG	CC	1946796374
SNP_P4_43993_17204871	NC_021163.1	Ca_kabuli_chr04	17204871	AA	CC	1946796377
SNP_P4_43994_17204952	NC_021163.1	Ca_kabuli_chr04	17204952	TT	AA	1946796379
SNP_P4_43995_17205038	NC_021163.1	Ca_kabuli_chr04	17205038	TT	CC	1946796381
SNP_P4_43996_17205044	NC_021163.1	Ca_kabuli_chr04	17205044	TT	CC	1946796383

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_43999_17206453	NC_021163.1	Ca_kabuli_chr04	17206453	TT	CC	1946796387
SNP_P4_44000_17206463	NC_021163.1	Ca_kabuli_chr04	17206463	CC	TT	1946796389
SNP_P4_44001_17206614	NC_021163.1	Ca_kabuli_chr04	17206614	CC	GG	1946796391
SNP_P4_44002_17206636	NC_021163.1	Ca_kabuli_chr04	17206636	AA	TT	1946796393
SNP_P4_44003_17206637	NC_021163.1	Ca_kabuli_chr04	17206637	AA	TT	1946796395
SNP_P4_44004_17206641	NC_021163.1	Ca_kabuli_chr04	17206641	AA	TT	1946796397
SNP_P4_44006_17206761	NC_021163.1	Ca_kabuli_chr04	17206761	TT	CC	1946796399
SNP_P4_44007_17207973	NC_021163.1	Ca_kabuli_chr04	17207973	AA	GG	1946796401
SNP_P4_44008_17207974	NC_021163.1	Ca_kabuli_chr04	17207974	GG	AA	1946796403
SNP_P4_44009_17207984	NC_021163.1	Ca_kabuli_chr04	17207984	GG	AA	1946796405
SNP_P4_44010_17208006	NC_021163.1	Ca_kabuli_chr04	17208006	TT	AA	1946796408
SNP_P4_44011_17208176	NC_021163.1	Ca_kabuli_chr04	17208176	TT	AA	1946796410
SNP_P4_44012_17208831	NC_021163.1	Ca_kabuli_chr04	17208831	TT	AA	1946796412
SNP_P4_44013_17208832	NC_021163.1	Ca_kabuli_chr04	17208832	CC	AA	1946796414
SNP_P4_44014_17208880	NC_021163.1	Ca_kabuli_chr04	17208880	CC	GG	1946796416
SNP_P4_44015_17209519	NC_021163.1	Ca_kabuli_chr04	17209519	CC	TT	1946796418
SNP_P4_44018_17211141	NC_021163.1	Ca_kabuli_chr04	17211141	TT	CC	1946796420
SNP_P4_44019_17211941	NC_021163.1	Ca_kabuli_chr04	17211941	TT	GG	1946796422
SNP_P4_44020_17211970	NC_021163.1	Ca_kabuli_chr04	17211970	CC	TT	1946796424
SNP_P4_44021_17212987	NC_021163.1	Ca_kabuli_chr04	17212987	CC	TT	1946796426
SNP_P4_44022_17213016	NC_021163.1	Ca_kabuli_chr04	17213016	TT	GG	1946796428
SNP_P4_44024_17214473	NC_021163.1	Ca_kabuli_chr04	17214473	GG	AA	1946796430
SNP_P4_44025_17214493	NC_021163.1	Ca_kabuli_chr04	17214493	GG	AA	1946796432
SNP_P4_44026_17214503	NC_021163.1	Ca_kabuli_chr04	17214503	GG	AA	1946796434
SNP_P4_44029_17214679	NC_021163.1	Ca_kabuli_chr04	17214679	AA	TT	1946796436
SNP_P4_44030_17214680	NC_021163.1	Ca_kabuli_chr04	17214680	GG	CC	1946796438
SNP_P4_44032_17219687	NC_021163.1	Ca_kabuli_chr04	17219687	GG	AA	1946796440
SNP_P4_44033_17219705	NC_021163.1	Ca_kabuli_chr04	17219705	AA	GG	1946796442
SNP_P4_44034_17223030	NC_021163.1	Ca_kabuli_chr04	17223030	AA	CC	1946796445
SNP_P4_44035_17223046	NC_021163.1	Ca_kabuli_chr04	17223046	GG	TT	1946796446
SNP_P4_44036_17223330	NC_021163.1	Ca_kabuli_chr04	17223330	GG	TT	1946796448
SNP_P4_44037_17224532	NC_021163.1	Ca_kabuli_chr04	17224532	CC	TT	1946796450
SNP_P4_44038_17224537	NC_021163.1	Ca_kabuli_chr04	17224537	CC	GG	1946796453
SNP_P4_44039_17224572	NC_021163.1	Ca_kabuli_chr04	17224572	AA	TT	1946796455
SNP_P4_44040_17225681	NC_021163.1	Ca_kabuli_chr04	17225681	TT	AA	1946796457
SNP_P4_44041_17226377	NC_021163.1	Ca_kabuli_chr04	17226377	CC	TT	1946796459
SNP_P4_44042_17226678	NC_021163.1	Ca_kabuli_chr04	17226678	TT	CC	1946796461
SNP_P4_44043_17227655	NC_021163.1	Ca_kabuli_chr04	17227655	AA	TT	1946796463
SNP_P4_44044_17228005	NC_021163.1	Ca_kabuli_chr04	17228005	CC	GG	1946796465
SNP_P4_44045_17230036	NC_021163.1	Ca_kabuli_chr04	17230036	AA	GG	1946796467
SNP_P4_44046_17230638	NC_021163.1	Ca_kabuli_chr04	17230638	TT	AA	1946796469

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_44048_17231693	NC_021163.1	Ca_kabuli_chr04	17231693	AA	GG	1946796473
SNP_P4_44049_17234821	NC_021163.1	Ca_kabuli_chr04	17234821	GG	AA	1946796475
SNP_P4_44050_17235243	NC_021163.1	Ca_kabuli_chr04	17235243	AA	GG	1946796477
SNP_P4_44051_17235737	NC_021163.1	Ca_kabuli_chr04	17235737	CC	TT	1946796479
SNP_P4_44052_17236600	NC_021163.1	Ca_kabuli_chr04	17236600	TT	AA	1946796481
SNP_P4_44053_17236634	NC_021163.1	Ca_kabuli_chr04	17236634	AA	GG	1946796483
SNP_P4_44054_17237825	NC_021163.1	Ca_kabuli_chr04	17237825	AA	CC	1946796485
SNP_P4_44055_17238106	NC_021163.1	Ca_kabuli_chr04	17238106	CC	GG	1946796487
SNP_P4_44057_17238660	NC_021163.1	Ca_kabuli_chr04	17238660	AA	TT	1946796489
SNP_P4_44058_17239360	NC_021163.1	Ca_kabuli_chr04	17239360	GG	AA	1946796491
SNP_P4_44059_17239364	NC_021163.1	Ca_kabuli_chr04	17239364	TT	CC	1946796493
SNP_P4_44060_17239391	NC_021163.1	Ca_kabuli_chr04	17239391	CC	AA	1946796495
SNP_P4_44061_17239421	NC_021163.1	Ca_kabuli_chr04	17239421	GG	AA	1946796497
SNP_P4_44062_17239709	NC_021163.1	Ca_kabuli_chr04	17239709	CC	TT	1946796499
SNP_P4_44063_17239745	NC_021163.1	Ca_kabuli_chr04	17239745	GG	AA	1946796502
SNP_P4_44065_17241203	NC_021163.1	Ca_kabuli_chr04	17241203	TT	CC	1946796504
SNP_P4_44066_17241611	NC_021163.1	Ca_kabuli_chr04	17241611	GG	AA	1946796506
SNP_P4_44067_17241622	NC_021163.1	Ca_kabuli_chr04	17241622	GG	AA	1946796508
SNP_P4_44068_17241649	NC_021163.1	Ca_kabuli_chr04	17241649	TT	CC	1946796510
SNP_P4_44069_17241660	NC_021163.1	Ca_kabuli_chr04	17241660	TT	CC	1946796512
SNP_P4_44072_17243645	NC_021163.1	Ca_kabuli_chr04	17243645	TT	GG	1946796514
SNP_P4_44073_17243650	NC_021163.1	Ca_kabuli_chr04	17243650	GG	TT	1946796516
SNP_P4_44074_17243711	NC_021163.1	Ca_kabuli_chr04	17243711	CC	TT	1946796518
SNP_P4_44075_17245087	NC_021163.1	Ca_kabuli_chr04	17245087	TT	CC	1946796520
SNP_P4_44076_17245175	NC_021163.1	Ca_kabuli_chr04	17245175	AA	GG	1946796522
SNP_P4_44077_17245236	NC_021163.1	Ca_kabuli_chr04	17245236	AA	TT	1946796524
SNP_P4_44078_17246540	NC_021163.1	Ca_kabuli_chr04	17246540	GG	AA	1946796526
SNP_P4_44079_17246555	NC_021163.1	Ca_kabuli_chr04	17246555	TT	CC	1946796529
SNP_P4_44080_17246574	NC_021163.1	Ca_kabuli_chr04	17246574	AA	GG	1946796531
SNP_P4_44081_17246905	NC_021163.1	Ca_kabuli_chr04	17246905	GG	TT	1946796533
SNP_P4_44082_17247062	NC_021163.1	Ca_kabuli_chr04	17247062	CC	TT	1946796535
SNP_P4_44083_17247359	NC_021163.1	Ca_kabuli_chr04	17247359	AA	CC	1946796537
SNP_P4_44084_17247534	NC_021163.1	Ca_kabuli_chr04	17247534	TT	AA	1946796539
SNP_P4_44086_17247875	NC_021163.1	Ca_kabuli_chr04	17247875	CC	TT	1946796541
SNP_P4_44087_17247991	NC_021163.1	Ca_kabuli_chr04	17247991	AA	TT	1946796543
SNP_P4_44088_17248071	NC_021163.1	Ca_kabuli_chr04	17248071	GG	AA	1946796545
SNP_P4_44090_17248343	NC_021163.1	Ca_kabuli_chr04	17248343	GG	AA	1946796547
SNP_P4_44091_17248344	NC_021163.1	Ca_kabuli_chr04	17248344	CC	TT	1946796549
SNP_P4_44092_17248773	NC_021163.1	Ca_kabuli_chr04	17248773	AA	GG	1946796551
SNP_P4_44094_17250575	NC_021163.1	Ca_kabuli_chr04	17250575	GG	TT	1946796553
SNP_P4_44095_17250685	NC_021163.1	Ca_kabuli_chr04	17250685	AA	TT	1946796555

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_44099_17251527	NC_021163.1	Ca_kabuli_chr04	17251527	AA	CC	1946796559
SNP_P4_44100_17251563	NC_021163.1	Ca_kabuli_chr04	17251563	CC	AA	1946796561
SNP_P4_44102_17251774	NC_021163.1	Ca_kabuli_chr04	17251774	GG	AA	1946796563
SNP_P4_44103_17251809	NC_021163.1	Ca_kabuli_chr04	17251809	TT	AA	1946796565
SNP_P4_44104_17251876	NC_021163.1	Ca_kabuli_chr04	17251876	TT	AA	1946796567
SNP_P4_44105_17252013	NC_021163.1	Ca_kabuli_chr04	17252013	AA	CC	1946796569
SNP_P4_44107_17252097	NC_021163.1	Ca_kabuli_chr04	17252097	CC	TT	1946796571
SNP_P4_44108_17252102	NC_021163.1	Ca_kabuli_chr04	17252102	CC	GG	1946796573
SNP_P4_44109_17252104	NC_021163.1	Ca_kabuli_chr04	17252104	TT	CC	1946796575
SNP_P4_44110_17252235	NC_021163.1	Ca_kabuli_chr04	17252235	CC	TT	1946796577
SNP_P4_44111_17252248	NC_021163.1	Ca_kabuli_chr04	17252248	CC	TT	1946796579
SNP_P4_44112_17252424	NC_021163.1	Ca_kabuli_chr04	17252424	TT	CC	1946796581
SNP_P4_44113_17252677	NC_021163.1	Ca_kabuli_chr04	17252677	AA	GG	1946796583
SNP_P4_44114_17252969	NC_021163.1	Ca_kabuli_chr04	17252969	TT	CC	1946796585
SNP_P4_44115_17253064	NC_021163.1	Ca_kabuli_chr04	17253064	AA	CC	1946796587
SNP_P4_44116_17253078	NC_021163.1	Ca_kabuli_chr04	17253078	AA	GG	1946796589
SNP_P4_44117_17253098	NC_021163.1	Ca_kabuli_chr04	17253098	AA	CC	1946796591
SNP_P4_44118_17253099	NC_021163.1	Ca_kabuli_chr04	17253099	TT	AA	1946796593
SNP_P4_44119_17253112	NC_021163.1	Ca_kabuli_chr04	17253112	CC	AA	1946796595
SNP_P4_44120_17253125	NC_021163.1	Ca_kabuli_chr04	17253125	AA	GG	1946796597
SNP_P4_44121_17253234	NC_021163.1	Ca_kabuli_chr04	17253234	AA	GG	1946796599
SNP_P4_44122_17253589	NC_021163.1	Ca_kabuli_chr04	17253589	TT	CC	1946796601
SNP_P4_44123_17253928	NC_021163.1	Ca_kabuli_chr04	17253928	AA	CC	1946796603
SNP_P4_44124_17254133	NC_021163.1	Ca_kabuli_chr04	17254133	AA	CC	1946796606
SNP_P4_44125_17254155	NC_021163.1	Ca_kabuli_chr04	17254155	GG	CC	1946796608
SNP_P4_44126_17254592	NC_021163.1	Ca_kabuli_chr04	17254592	AA	TT	1946796609
SNP_P4_44127_17254622	NC_021163.1	Ca_kabuli_chr04	17254622	GG	AA	1946796611
SNP_P4_44129_17255398	NC_021163.1	Ca_kabuli_chr04	17255398	TT	CC	1946796613
SNP_P4_44130_17256142	NC_021163.1	Ca_kabuli_chr04	17256142	AA	GG	1946796615
SNP_P4_44131_17256144	NC_021163.1	Ca_kabuli_chr04	17256144	AA	TT	1946796617
SNP_P4_44132_17257453	NC_021163.1	Ca_kabuli_chr04	17257453	CC	AA	1946796619
SNP_P4_44133_17257467	NC_021163.1	Ca_kabuli_chr04	17257467	CC	TT	1946796621
SNP_P4_44134_17257625	NC_021163.1	Ca_kabuli_chr04	17257625	GG	TT	1946796623
SNP_P4_44135_17257878	NC_021163.1	Ca_kabuli_chr04	17257878	TT	CC	1946796625
SNP_P4_44137_17258172	NC_021163.1	Ca_kabuli_chr04	17258172	AA	GG	1946796627
SNP_P4_44138_17258262	NC_021163.1	Ca_kabuli_chr04	17258262	GG	AA	1946796629
SNP_P4_44139_17258279	NC_021163.1	Ca_kabuli_chr04	17258279	AA	TT	1946796631
SNP_P4_44141_17258362	NC_021163.1	Ca_kabuli_chr04	17258362	GG	AA	1946796633
SNP_P4_44142_17258506	NC_021163.1	Ca_kabuli_chr04	17258506	TT	AA	1946796635
SNP_P4_44143_17258510	NC_021163.1	Ca_kabuli_chr04	17258510	TT	AA	1946796636
SNP_P4_44144_17258556	NC_021163.1	Ca_kabuli_chr04	17258556	CC	TT	1946796638

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_44146_17259025	NC_021163.1	Ca_kabuli_chr04	17259025	AA	GG	1946796642
SNP_P4_44147_17259027	NC_021163.1	Ca_kabuli_chr04	17259027	CC	TT	1946796644
SNP_P4_44149_17259256	NC_021163.1	Ca_kabuli_chr04	17259256	TT	GG	1946796646
SNP_P4_44150_17259350	NC_021163.1	Ca_kabuli_chr04	17259350	GG	AA	1946796648
SNP_P4_44152_17259419	NC_021163.1	Ca_kabuli_chr04	17259419	TT	CC	1946796650
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SNP_P4_44154_17259924	NC_021163.1	Ca_kabuli_chr04	17259924	TT	AA	1946796654
SNP_P4_44155_17259991	NC_021163.1	Ca_kabuli_chr04	17259991	CC	TT	1946796656
SNP_P4_44156_17260184	NC_021163.1	Ca_kabuli_chr04	17260184	CC	GG	1946796658
SNP_P4_44157_17260294	NC_021163.1	Ca_kabuli_chr04	17260294	GG	AA	1946796660
SNP_P4_44158_17260299	NC_021163.1	Ca_kabuli_chr04	17260299	TT	AA	1946796662
SNP_P4_44159_17260341	NC_021163.1	Ca_kabuli_chr04	17260341	AA	GG	1946796664
SNP_P4_44160_17260363	NC_021163.1	Ca_kabuli_chr04	17260363	AA	GG	1946796666
SNP_P4_44161_17260521	NC_021163.1	Ca_kabuli_chr04	17260521	GG	AA	1946796668
SNP_P4_44162_17260556	NC_021163.1	Ca_kabuli_chr04	17260556	AA	GG	1946796670
SNP_P4_44163_17260568	NC_021163.1	Ca_kabuli_chr04	17260568	CC	TT	1946796671
SNP_P4_44164_17261915	NC_021163.1	Ca_kabuli_chr04	17261915	CC	GG	1946796673
SNP_P4_44165_17262306	NC_021163.1	Ca_kabuli_chr04	17262306	GG	TT	1946796675
SNP_P4_44166_17262491	NC_021163.1	Ca_kabuli_chr04	17262491	AA	GG	1946796677
SNP_P4_44167_17262498	NC_021163.1	Ca_kabuli_chr04	17262498	TT	AA	1946796679
SNP_P4_44168_17262506	NC_021163.1	Ca_kabuli_chr04	17262506	AA	GG	1946796681
SNP_P4_44169_17262512	NC_021163.1	Ca_kabuli_chr04	17262512	CC	TT	1946796683
SNP_P4_44170_17266044	NC_021163.1	Ca_kabuli_chr04	17266044	CC	TT	1946796685
SNP_P4_44172_17269077	NC_021163.1	Ca_kabuli_chr04	17269077	TT	AA	1946796687
SNP_P4_44173_17270524	NC_021163.1	Ca_kabuli_chr04	17270524	CC	GG	1946796689
SNP_P4_44174_17270576	NC_021163.1	Ca_kabuli_chr04	17270576	AA	CC	1946796691
SNP_P4_44175_17270587	NC_021163.1	Ca_kabuli_chr04	17270587	AA	TT	1946796693
SNP_P4_44176_17270588	NC_021163.1	Ca_kabuli_chr04	17270588	TT	CC	1946796695
SNP_P4_44177_17271209	NC_021163.1	Ca_kabuli_chr04	17271209	AA	CC	1946796697
SNP_P4_44178_17271210	NC_021163.1	Ca_kabuli_chr04	17271210	GG	AA	1946796699
SNP_P4_44179_17271831	NC_021163.1	Ca_kabuli_chr04	17271831	AA	GG	1946796701
SNP_P4_44180_17271839	NC_021163.1	Ca_kabuli_chr04	17271839	TT	CC	1946796703
SNP_P4_44181_17271853	NC_021163.1	Ca_kabuli_chr04	17271853	TT	CC	1946796706
SNP_P4_44182_17284303	NC_021163.1	Ca_kabuli_chr04	17284303	AA	TT	1946796708
SNP_P4_44183_17284490	NC_021163.1	Ca_kabuli_chr04	17284490	AA	GG	1946796710
SNP_P4_44184_17285206	NC_021163.1	Ca_kabuli_chr04	17285206	TT	AA	1946796712
SNP_P4_44185_17286617	NC_021163.1	Ca_kabuli_chr04	17286617	AA	GG	1946796714
SNP_P4_44186_17286647	NC_021163.1	Ca_kabuli_chr04	17286647	CC	TT	1946796716
SNP_P4_44189_17287353	NC_021163.1	Ca_kabuli_chr04	17287353	GG	AA	1946796718
SNP_P4_44190_17287619	NC_021163.1	Ca_kabuli_chr04	17287619	AA	GG	1946796720
SNP_P4_44191_17287847	NC_021163.1	Ca_kabuli_chr04	17287847	AA	GG	1946796722

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_44193_17288313	NC_021163.1	Ca_kabuli_chr04	17288313	GG	CC	1946796726
SNP_P4_44194_17288315	NC_021163.1	Ca_kabuli_chr04	17288315	GG	AA	1946796728
SNP_P4_44195_17288358	NC_021163.1	Ca_kabuli_chr04	17288358	TT	GG	1946796730
SNP_P4_44196_17288873	NC_021163.1	Ca_kabuli_chr04	17288873	AA	TT	1946796732
SNP_P4_44197_17288914	NC_021163.1	Ca_kabuli_chr04	17288914	GG	AA	1946796734
SNP_P4_44198_17288932	NC_021163.1	Ca_kabuli_chr04	17288932	GG	AA	1946796736
SNP_P4_44199_17289312	NC_021163.1	Ca_kabuli_chr04	17289312	GG	AA	1946796738
SNP_P4_44200_17289320	NC_021163.1	Ca_kabuli_chr04	17289320	AA	CC	1946796740
SNP_P4_44201_17289327	NC_021163.1	Ca_kabuli_chr04	17289327	AA	GG	1946796742
SNP_P4_44202_17289883	NC_021163.1	Ca_kabuli_chr04	17289883	GG	AA	1946796744
SNP_P4_44205_17290793	NC_021163.1	Ca_kabuli_chr04	17290793	CC	TT	1946796746
SNP_P4_44206_17290958	NC_021163.1	Ca_kabuli_chr04	17290958	TT	CC	1946796748
SNP_P4_44207_17290964	NC_021163.1	Ca_kabuli_chr04	17290964	CC	TT	1946796750
SNP_P4_44208_17290969	NC_021163.1	Ca_kabuli_chr04	17290969	AA	TT	1946796752
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SNP_P4_44211_17290989	NC_021163.1	Ca_kabuli_chr04	17290989	GG	AA	1946796758
SNP_P4_44212_17291028	NC_021163.1	Ca_kabuli_chr04	17291028	GG	TT	1946796760
SNP_P4_44213_17292282	NC_021163.1	Ca_kabuli_chr04	17292282	TT	GG	1946796762
SNP_P4_44214_17292292	NC_021163.1	Ca_kabuli_chr04	17292292	AA	GG	1946796764
SNP_P4_44215_17292336	NC_021163.1	Ca_kabuli_chr04	17292336	TT	CC	1946796766
SNP_P4_44216_17292356	NC_021163.1	Ca_kabuli_chr04	17292356	TT	CC	1946796768
SNP_P4_44217_17292374	NC_021163.1	Ca_kabuli_chr04	17292374	AA	CC	1946796770
SNP_P4_44218_17292388	NC_021163.1	Ca_kabuli_chr04	17292388	TT	CC	1946796772
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SNP_P4_44220_17292402	NC_021163.1	Ca_kabuli_chr04	17292402	CC	TT	1946796776
SNP_P4_44221_17292617	NC_021163.1	Ca_kabuli_chr04	17292617	AA	GG	1946796778
SNP_P4_44222_17292639	NC_021163.1	Ca_kabuli_chr04	17292639	AA	GG	1946796780
SNP_P4_44223_17292699	NC_021163.1	Ca_kabuli_chr04	17292699	AA	GG	1946796782
SNP_P4_44224_17292700	NC_021163.1	Ca_kabuli_chr04	17292700	TT	AA	1946796784
SNP_P4_44225_17292706	NC_021163.1	Ca_kabuli_chr04	17292706	AA	GG	1946796786
SNP_P4_44226_17292727	NC_021163.1	Ca_kabuli_chr04	17292727	TT	CC	1946796788
SNP_P4_44228_17293633	NC_021163.1	Ca_kabuli_chr04	17293633	AA	GG	1946796790
SNP_P4_44230_17293768	NC_021163.1	Ca_kabuli_chr04	17293768	AA	GG	1946796792
SNP_P4_44231_17294886	NC_021163.1	Ca_kabuli_chr04	17294886	GG	AA	1946796794
SNP_P4_44232_17295114	NC_021163.1	Ca_kabuli_chr04	17295114	AA	TT	1946796797
SNP_P4_44234_17297563	NC_021163.1	Ca_kabuli_chr04	17297563	GG	AA	1946796799
SNP_P4_44235_17297567	NC_021163.1	Ca_kabuli_chr04	17297567	AA	GG	1946796801
SNP_P4_44236_17297866	NC_021163.1	Ca_kabuli_chr04	17297866	CC	TT	1946796803
SNP_P4_44237_17298555	NC_021163.1	Ca_kabuli_chr04	17298555	TT	CC	1946796805
SNP_P4_44239_17299377	NC_021163.1	Ca_kabuli_chr04	17299377	TT	CC	1946796807

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_44242_17305839	NC_021163.1	Ca_kabuli_chr04	17305839	AA	TT	1946796811
SNP_P4_44243_17309827	NC_021163.1	Ca_kabuli_chr04	17309827	GG	CC	1946796813
SNP_P4_44244_17312414	NC_021163.1	Ca_kabuli_chr04	17312414	TT	CC	1946796815
SNP_P4_44246_17313161	NC_021163.1	Ca_kabuli_chr04	17313161	TT	CC	1946796817
SNP_P4_44248_17314130	NC_021163.1	Ca_kabuli_chr04	17314130	AA	GG	1946796819
SNP_P4_44249_17314543	NC_021163.1	Ca_kabuli_chr04	17314543	AA	TT	1946796821
SNP_P4_44251_17314901	NC_021163.1	Ca_kabuli_chr04	17314901	AA	GG	1946796823
SNP_P4_44252_17315181	NC_021163.1	Ca_kabuli_chr04	17315181	CC	TT	1946796825
SNP_P4_44254_17315205	NC_021163.1	Ca_kabuli_chr04	17315205	GG	AA	1946796827
SNP_P4_44255_17315206	NC_021163.1	Ca_kabuli_chr04	17315206	TT	CC	1946796829
SNP_P4_44256_17315289	NC_021163.1	Ca_kabuli_chr04	17315289	GG	AA	1946796831
SNP_P4_44257_17315465	NC_021163.1	Ca_kabuli_chr04	17315465	AA	TT	1946796833
SNP_P4_44258_17315476	NC_021163.1	Ca_kabuli_chr04	17315476	TT	AA	1946796835
SNP_P4_44259_17317662	NC_021163.1	Ca_kabuli_chr04	17317662	TT	CC	1946796837
SNP_P4_44260_17317985	NC_021163.1	Ca_kabuli_chr04	17317985	GG	AA	1946796839
SNP_P4_44261_17318000	NC_021163.1	Ca_kabuli_chr04	17318000	GG	AA	1946796841
SNP_P4_44264_17318759	NC_021163.1	Ca_kabuli_chr04	17318759	AA	GG	1946796844
SNP_P4_44265_17321701	NC_021163.1	Ca_kabuli_chr04	17321701	TT	CC	1946796846
SNP_P4_44266_17321709	NC_021163.1	Ca_kabuli_chr04	17321709	AA	TT	1946796849
SNP_P4_44267_17321925	NC_021163.1	Ca_kabuli_chr04	17321925	TT	AA	1946796851
SNP_P4_44269_17322164	NC_021163.1	Ca_kabuli_chr04	17322164	TT	CC	1946796853
SNP_P4_44270_17322236	NC_021163.1	Ca_kabuli_chr04	17322236	AA	TT	1946796855
SNP_P4_44272_17324163	NC_021163.1	Ca_kabuli_chr04	17324163	GG	AA	1946796857
SNP_P4_44273_17324177	NC_021163.1	Ca_kabuli_chr04	17324177	GG	TT	1946796859
SNP_P4_44274_17324285	NC_021163.1	Ca_kabuli_chr04	17324285	AA	TT	1946796861
SNP_P4_44275_17324324	NC_021163.1	Ca_kabuli_chr04	17324324	GG	TT	1946796863
SNP_P4_44277_17324406	NC_021163.1	Ca_kabuli_chr04	17324406	TT	AA	1946796865
SNP_P4_44278_17324473	NC_021163.1	Ca_kabuli_chr04	17324473	CC	TT	1946796867
SNP_P4_44279_17324637	NC_021163.1	Ca_kabuli_chr04	17324637	AA	TT	1946796869
SNP_P4_44280_17324660	NC_021163.1	Ca_kabuli_chr04	17324660	CC	GG	1946796871
SNP_P4_44281_17325494	NC_021163.1	Ca_kabuli_chr04	17325494	TT	CC	1946796874
SNP_P4_44282_17325500	NC_021163.1	Ca_kabuli_chr04	17325500	AA	CC	1946796876
SNP_P4_44283_17325648	NC_021163.1	Ca_kabuli_chr04	17325648	TT	CC	1946796879
SNP_P4_44284_17325695	NC_021163.1	Ca_kabuli_chr04	17325695	AA	TT	1946796881
SNP_P4_44285_17325701	NC_021163.1	Ca_kabuli_chr04	17325701	AA	TT	1946796883
SNP_P4_44286_17327331	NC_021163.1	Ca_kabuli_chr04	17327331	AA	GG	1946796885
SNP_P4_44287_17327335	NC_021163.1	Ca_kabuli_chr04	17327335	AA	GG	1946796887
SNP_P4_44288_17327497	NC_021163.1	Ca_kabuli_chr04	17327497	CC	TT	1946796889
SNP_P4_44289_17327498	NC_021163.1	Ca_kabuli_chr04	17327498	TT	AA	1946796891
SNP_P4_44290_17327525	NC_021163.1	Ca_kabuli_chr04	17327525	AA	GG	1946796893
SNP_P4_44292_17328480	NC_021163.1	Ca_kabuli_chr04	17328480	TT	CC	1946796895

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_44294_17328524	NC_021163.1	Ca_kabuli_chr04	17328524	TT	AA	1946796900
SNP_P4_44295_17328537	NC_021163.1	Ca_kabuli_chr04	17328537	AA	GG	1946796902
SNP_P4_44296_17328539	NC_021163.1	Ca_kabuli_chr04	17328539	GG	CC	1946796904
SNP_P4_44297_17328544	NC_021163.1	Ca_kabuli_chr04	17328544	TT	AA	1946796906
SNP_P4_44298_17328624	NC_021163.1	Ca_kabuli_chr04	17328624	TT	AA	1946796908
SNP_P4_44301_17329282	NC_021163.1	Ca_kabuli_chr04	17329282	AA	GG	1946796910
SNP_P4_44302_17329306	NC_021163.1	Ca_kabuli_chr04	17329306	AA	GG	1946796912
SNP_P4_44304_17329576	NC_021163.1	Ca_kabuli_chr04	17329576	TT	CC	1946796914
SNP_P4_44305_17329828	NC_021163.1	Ca_kabuli_chr04	17329828	TT	AA	1946796916
SNP_P4_44306_17330667	NC_021163.1	Ca_kabuli_chr04	17330667	AA	GG	1946796918
SNP_P4_44307_17330768	NC_021163.1	Ca_kabuli_chr04	17330768	CC	TT	1946796920
SNP_P4_44308_17330831	NC_021163.1	Ca_kabuli_chr04	17330831	TT	CC	1946796922
SNP_P4_44309_17331101	NC_021163.1	Ca_kabuli_chr04	17331101	CC	TT	1946796924
SNP_P4_44310_17331268	NC_021163.1	Ca_kabuli_chr04	17331268	CC	TT	1946796926
SNP_P4_44311_17331599	NC_021163.1	Ca_kabuli_chr04	17331599	CC	TT	1946796928
SNP_P4_44313_17332275	NC_021163.1	Ca_kabuli_chr04	17332275	CC	AA	1946796930
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SNP_P4_44315_17332488	NC_021163.1	Ca_kabuli_chr04	17332488	TT	GG	1946796935
SNP_P4_44317_17332764	NC_021163.1	Ca_kabuli_chr04	17332764	AA	TT	1946796937
SNP_P4_44318_17333820	NC_021163.1	Ca_kabuli_chr04	17333820	TT	CC	1946796939
SNP_P4_44319_17333822	NC_021163.1	Ca_kabuli_chr04	17333822	CC	TT	1946796941
SNP_P4_44320_17333887	NC_021163.1	Ca_kabuli_chr04	17333887	CC	AA	1946796943
SNP_P4_44321_17334093	NC_021163.1	Ca_kabuli_chr04	17334093	GG	TT	1946796945
SNP_P4_44322_17334204	NC_021163.1	Ca_kabuli_chr04	17334204	GG	AA	1946796947
SNP_P4_44323_17334359	NC_021163.1	Ca_kabuli_chr04	17334359	TT	AA	1946796949
SNP_P4_44324_17334394	NC_021163.1	Ca_kabuli_chr04	17334394	TT	GG	1946796951
SNP_P4_44325_17334490	NC_021163.1	Ca_kabuli_chr04	17334490	CC	TT	1946796953
SNP_P4_44326_17336709	NC_021163.1	Ca_kabuli_chr04	17336709	GG	AA	1946796955
SNP_P4_44327_17337281	NC_021163.1	Ca_kabuli_chr04	17337281	GG	AA	1946796957
SNP_P4_44328_17338491	NC_021163.1	Ca_kabuli_chr04	17338491	GG	AA	1946796959
SNP_P4_44329_17338610	NC_021163.1	Ca_kabuli_chr04	17338610	GG	CC	1946796961
SNP_P4_44330_17339200	NC_021163.1	Ca_kabuli_chr04	17339200	GG	AA	1946796963
SNP_P4_44331_17339301	NC_021163.1	Ca_kabuli_chr04	17339301	TT	CC	1946796965
SNP_P4_44332_17339350	NC_021163.1	Ca_kabuli_chr04	17339350	CC	TT	1946796967
SNP_P4_44334_17342051	NC_021163.1	Ca_kabuli_chr04	17342051	TT	CC	1946796969
SNP_P4_44335_17342053	NC_021163.1	Ca_kabuli_chr04	17342053	GG	AA	1946796971
SNP_P4_44337_17342347	NC_021163.1	Ca_kabuli_chr04	17342347	GG	AA	1946796974
SNP_P4_44338_17342431	NC_021163.1	Ca_kabuli_chr04	17342431	TT	CC	1946796976
SNP_P4_44339_17343730	NC_021163.1	Ca_kabuli_chr04	17343730	GG	AA	1946796978
SNP_P4_44340_17344627	NC_021163.1	Ca_kabuli_chr04	17344627	AA	GG	1946796980
SNP_P4_44341_17348700	NC_021163.1	Ca_kabuli_chr04	17348700	CC	TT	1946796982

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_44344_17349298	NC_021163.1	Ca_kabuli_chr04	17349298	TT	CC	1946796986
SNP_P4_44345_17349331	NC_021163.1	Ca_kabuli_chr04	17349331	TT	CC	1946796988
SNP_P4_44346_17349367	NC_021163.1	Ca_kabuli_chr04	17349367	TT	CC	1946796990
SNP_P4_44347_17349404	NC_021163.1	Ca_kabuli_chr04	17349404	AA	TT	1946796992
SNP_P4_44348_17349557	NC_021163.1	Ca_kabuli_chr04	17349557	TT	AA	1946796994
SNP_P4_44349_17352895	NC_021163.1	Ca_kabuli_chr04	17352895	CC	AA	1946796996
SNP_P4_44350_17353118	NC_021163.1	Ca_kabuli_chr04	17353118	CC	TT	1946796999
SNP_P4_44351_17353145	NC_021163.1	Ca_kabuli_chr04	17353145	CC	TT	1946797001
SNP_P4_44352_17353174	NC_021163.1	Ca_kabuli_chr04	17353174	GG	TT	1946797003
SNP_P4_44353_17353211	NC_021163.1	Ca_kabuli_chr04	17353211	AA	GG	1946797005
SNP_P4_44354_17353216	NC_021163.1	Ca_kabuli_chr04	17353216	AA	TT	1946797007
SNP_P4_44355_17353946	NC_021163.1	Ca_kabuli_chr04	17353946	TT	GG	1946797009
SNP_P4_44356_17354126	NC_021163.1	Ca_kabuli_chr04	17354126	TT	GG	1946797011
SNP_P4_44357_17354196	NC_021163.1	Ca_kabuli_chr04	17354196	TT	CC	1946797013
SNP_P4_44358_17354444	NC_021163.1	Ca_kabuli_chr04	17354444	AA	TT	1946797015
SNP_P4_44359_17354838	NC_021163.1	Ca_kabuli_chr04	17354838	TT	CC	1946797017
SNP_P4_44360_17354867	NC_021163.1	Ca_kabuli_chr04	17354867	AA	GG	1946797019
SNP_P4_44361_17355029	NC_021163.1	Ca_kabuli_chr04	17355029	GG	AA	1946797021
SNP_P4_44362_17355117	NC_021163.1	Ca_kabuli_chr04	17355117	CC	TT	1946797023
SNP_P4_44363_17355406	NC_021163.1	Ca_kabuli_chr04	17355406	CC	AA	1946797025
SNP_P4_44364_17355998	NC_021163.1	Ca_kabuli_chr04	17355998	GG	AA	1946797027
SNP_P4_44365_17356320	NC_021163.1	Ca_kabuli_chr04	17356320	GG	CC	1946797029
SNP_P4_44366_17357309	NC_021163.1	Ca_kabuli_chr04	17357309	GG	AA	1946797031
SNP_P4_44367_17357341	NC_021163.1	Ca_kabuli_chr04	17357341	CC	TT	1946797033
SNP_P4_44368_17358921	NC_021163.1	Ca_kabuli_chr04	17358921	TT	AA	1946797036
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SNP_P4_44372_17360064	NC_021163.1	Ca_kabuli_chr04	17360064	GG	AA	1946797044
SNP_P4_44374_17361601	NC_021163.1	Ca_kabuli_chr04	17361601	CC	AA	1946797046
SNP_P4_44375_17363378	NC_021163.1	Ca_kabuli_chr04	17363378	AA	GG	1946797048
SNP_P4_44376_17366584	NC_021163.1	Ca_kabuli_chr04	17366584	GG	CC	1946797050
SNP_P4_44377_17366772	NC_021163.1	Ca_kabuli_chr04	17366772	AA	CC	1946797052
SNP_P4_44378_17367052	NC_021163.1	Ca_kabuli_chr04	17367052	TT	AA	1946797054
SNP_P4_44379_17367056	NC_021163.1	Ca_kabuli_chr04	17367056	TT	CC	1946797056
SNP_P4_44380_17367134	NC_021163.1	Ca_kabuli_chr04	17367134	GG	AA	1946797058
SNP_P4_44382_17367173	NC_021163.1	Ca_kabuli_chr04	17367173	CC	TT	1946797060
SNP_P4_44383_17367359	NC_021163.1	Ca_kabuli_chr04	17367359	AA	GG	1946797062
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SNP_P4_44385_17367430	NC_021163.1	Ca_kabuli_chr04	17367430	TT	GG	1946797066
SNP_P4_44386_17367641	NC_021163.1	Ca_kabuli_chr04	17367641	TT	AA	1946797068

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_44390_17367760	NC_021163.1	Ca_kabuli_chr04	17367760	TT	AA	1946797072
SNP_P4_44391_17368744	NC_021163.1	Ca_kabuli_chr04	17368744	AA	GG	1946797074
SNP_P4_44392_17368762	NC_021163.1	Ca_kabuli_chr04	17368762	TT	CC	1946797077
SNP_P4_44393_17371868	NC_021163.1	Ca_kabuli_chr04	17371868	AA	GG	1946797079
SNP_P4_44394_17372056	NC_021163.1	Ca_kabuli_chr04	17372056	GG	TT	1946797081
SNP_P4_44395_17372062	NC_021163.1	Ca_kabuli_chr04	17372062	GG	AA	1946797083
SNP_P4_44396_17372451	NC_021163.1	Ca_kabuli_chr04	17372451	AA	GG	1946797085
SNP_P4_44397_17372469	NC_021163.1	Ca_kabuli_chr04	17372469	GG	AA	1946797087
SNP_P4_44398_17372946	NC_021163.1	Ca_kabuli_chr04	17372946	TT	AA	1946797089
SNP_P4_44399_17373082	NC_021163.1	Ca_kabuli_chr04	17373082	TT	GG	1946797091
SNP_P4_44400_17373612	NC_021163.1	Ca_kabuli_chr04	17373612	GG	CC	1946797093
SNP_P4_44402_17376800	NC_021163.1	Ca_kabuli_chr04	17376800	TT	CC	1946797095
SNP_P4_44404_17382525	NC_021163.1	Ca_kabuli_chr04	17382525	TT	GG	1946797097
SNP_P4_44405_17382554	NC_021163.1	Ca_kabuli_chr04	17382554	TT	CC	1946797099
SNP_P4_44406_17383869	NC_021163.1	Ca_kabuli_chr04	17383869	CC	TT	1946797101
SNP_P4_44407_17383870	NC_021163.1	Ca_kabuli_chr04	17383870	AA	GG	1946797103
SNP_P4_44408_17384599	NC_021163.1	Ca_kabuli_chr04	17384599	GG	TT	1946797105
SNP_P4_44409_17384929	NC_021163.1	Ca_kabuli_chr04	17384929	CC	TT	1946797107
SNP_P4_44410_17385351	NC_021163.1	Ca_kabuli_chr04	17385351	GG	AA	1946797109
SNP_P4_44411_17385936	NC_021163.1	Ca_kabuli_chr04	17385936	GG	AA	1946797111
SNP_P4_44412_17386205	NC_021163.1	Ca_kabuli_chr04	17386205	AA	GG	1946797113
SNP_P4_44413_17386333	NC_021163.1	Ca_kabuli_chr04	17386333	AA	CC	1946797115
SNP_P4_44414_17386651	NC_021163.1	Ca_kabuli_chr04	17386651	CC	GG	1946797118
SNP_P4_44415_17386677	NC_021163.1	Ca_kabuli_chr04	17386677	GG	AA	1946797120
SNP_P4_44416_17386681	NC_021163.1	Ca_kabuli_chr04	17386681	TT	AA	1946797122
SNP_P4_44417_17386694	NC_021163.1	Ca_kabuli_chr04	17386694	GG	TT	1946797124
SNP_P4_44418_17387010	NC_021163.1	Ca_kabuli_chr04	17387010	AA	GG	1946797126
SNP_P4_44419_17387026	NC_021163.1	Ca_kabuli_chr04	17387026	AA	CC	1946797128
SNP_P4_44420_17387030	NC_021163.1	Ca_kabuli_chr04	17387030	AA	CC	1946797130
SNP_P4_44421_17387047	NC_021163.1	Ca_kabuli_chr04	17387047	GG	AA	1946797132
SNP_P4_44422_17387514	NC_021163.1	Ca_kabuli_chr04	17387514	AA	GG	1946797134
SNP_P4_44423_17388206	NC_021163.1	Ca_kabuli_chr04	17388206	CC	TT	1946797136
SNP_P4_44424_17388234	NC_021163.1	Ca_kabuli_chr04	17388234	GG	AA	1946797138
SNP_P4_44425_17388239	NC_021163.1	Ca_kabuli_chr04	17388239	TT	CC	1946797140
SNP_P4_44426_17388621	NC_021163.1	Ca_kabuli_chr04	17388621	CC	AA	1946797142
SNP_P4_44427_17388625	NC_021163.1	Ca_kabuli_chr04	17388625	TT	CC	1946797144
SNP_P4_44428_17389036	NC_021163.1	Ca_kabuli_chr04	17389036	TT	CC	1946797146
SNP_P4_44429_17389212	NC_021163.1	Ca_kabuli_chr04	17389212	AA	GG	1946797149
SNP_P4_44430_17389220	NC_021163.1	Ca_kabuli_chr04	17389220	AA	CC	1946797151
SNP_P4_44431_17389238	NC_021163.1	Ca_kabuli_chr04	17389238	GG	TT	1946797153
SNP_P4_44432_17393811	NC_021163.1	Ca_kabuli_chr04	17393811	TT	CC	1946797155

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_44434_17395146	NC_021163.1	Ca_kabuli_chr04	17395146	AA	GG	1946797159
SNP_P4_44436_17396325	NC_021163.1	Ca_kabuli_chr04	17396325	GG	AA	1946797161
SNP_P4_44437_17396407	NC_021163.1	Ca_kabuli_chr04	17396407	TT	CC	1946797163
SNP_P4_44438_17396594	NC_021163.1	Ca_kabuli_chr04	17396594	GG	TT	1946797165
SNP_P4_44439_17398168	NC_021163.1	Ca_kabuli_chr04	17398168	CC	GG	1946797167
SNP_P4_44440_17399071	NC_021163.1	Ca_kabuli_chr04	17399071	AA	TT	1946797169
SNP_P4_44441_17399873	NC_021163.1	Ca_kabuli_chr04	17399873	CC	GG	1946797171
SNP_P4_44442_17400982	NC_021163.1	Ca_kabuli_chr04	17400982	CC	TT	1946797173
SNP_P4_44443_17404500	NC_021163.1	Ca_kabuli_chr04	17404500	AA	CC	1946797175
SNP_P4_44444_17405476	NC_021163.1	Ca_kabuli_chr04	17405476	CC	TT	1946797177
SNP_P4_44445_17406305	NC_021163.1	Ca_kabuli_chr04	17406305	AA	GG	1946797179
SNP_P4_44446_17407614	NC_021163.1	Ca_kabuli_chr04	17407614	GG	AA	1946797181
SNP_P4_44447_17407736	NC_021163.1	Ca_kabuli_chr04	17407736	AA	GG	1946797183
SNP_P4_44448_17409922	NC_021163.1	Ca_kabuli_chr04	17409922	AA	GG	1946797185
SNP_P4_44449_17409936	NC_021163.1	Ca_kabuli_chr04	17409936	AA	GG	1946797187
SNP_P4_44450_17410435	NC_021163.1	Ca_kabuli_chr04	17410435	CC	TT	1946797189
SNP_P4_44451_17410749	NC_021163.1	Ca_kabuli_chr04	17410749	GG	AA	1946797191
SNP_P4_44452_17411711	NC_021163.1	Ca_kabuli_chr04	17411711	AA	GG	1946797193
SNP_P4_44453_17412057	NC_021163.1	Ca_kabuli_chr04	17412057	TT	CC	1946797195
SNP_P4_44454_17415588	NC_021163.1	Ca_kabuli_chr04	17415588	AA	GG	1946797197
SNP_P4_44455_17415600	NC_021163.1	Ca_kabuli_chr04	17415600	AA	GG	1946797199
SNP_P4_44456_17415609	NC_021163.1	Ca_kabuli_chr04	17415609	TT	AA	1946797201
SNP_P4_44457_17419980	NC_021163.1	Ca_kabuli_chr04	17419980	TT	GG	1946797203
SNP_P4_44458_17420010	NC_021163.1	Ca_kabuli_chr04	17420010	TT	CC	1946797205
SNP_P4_44459_17420033	NC_021163.1	Ca_kabuli_chr04	17420033	CC	TT	1946797207
SNP_P4_44460_17420047	NC_021163.1	Ca_kabuli_chr04	17420047	CC	TT	1946797209
SNP_P4_44461_17420530	NC_021163.1	Ca_kabuli_chr04	17420530	AA	GG	1946797212
SNP_P4_44462_17420543	NC_021163.1	Ca_kabuli_chr04	17420543	TT	GG	1946797214
SNP_P4_44463_17420547	NC_021163.1	Ca_kabuli_chr04	17420547	TT	CC	1946797216
SNP_P4_44464_17420560	NC_021163.1	Ca_kabuli_chr04	17420560	AA	GG	1946797218
SNP_P4_44465_17420561	NC_021163.1	Ca_kabuli_chr04	17420561	AA	GG	1946797221
SNP_P4_44466_17420579	NC_021163.1	Ca_kabuli_chr04	17420579	TT	GG	1946797223
SNP_P4_44467_17420764	NC_021163.1	Ca_kabuli_chr04	17420764	AA	GG	1946797225
SNP_P4_44468_17420788	NC_021163.1	Ca_kabuli_chr04	17420788	TT	AA	1946797227
SNP_P4_44469_17420794	NC_021163.1	Ca_kabuli_chr04	17420794	AA	TT	1946797229
SNP_P4_44470_17420850	NC_021163.1	Ca_kabuli_chr04	17420850	TT	AA	1946797231
SNP_P4_44471_17420852	NC_021163.1	Ca_kabuli_chr04	17420852	TT	CC	1946797233
SNP_P4_44472_17420870	NC_021163.1	Ca_kabuli_chr04	17420870	GG	AA	1946797235
SNP_P4_44473_17420904	NC_021163.1	Ca_kabuli_chr04	17420904	CC	TT	1946797238
SNP_P4_44474_17420936	NC_021163.1	Ca_kabuli_chr04	17420936	AA	CC	1946797240
SNP_P4_44475_17420943	NC_021163.1	Ca_kabuli_chr04	17420943	TT	AA	1946797242

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_44477_17421111	NC_021163.1	Ca_kabuli_chr04	17421111	CC	AA	1946797246
SNP_P4_44480_17421296	NC_021163.1	Ca_kabuli_chr04	17421296	CC	GG	1946797248
SNP_P4_44481_17421619	NC_021163.1	Ca_kabuli_chr04	17421619	AA	GG	1946797250
SNP_P4_44482_17421634	NC_021163.1	Ca_kabuli_chr04	17421634	AA	GG	1946797253
SNP_P4_44483_17421635	NC_021163.1	Ca_kabuli_chr04	17421635	AA	GG	1946797255
SNP_P4_44484_17421665	NC_021163.1	Ca_kabuli_chr04	17421665	GG	AA	1946797257
SNP_P4_44486_17424446	NC_021163.1	Ca_kabuli_chr04	17424446	TT	CC	1946797259
SNP_P4_44487_17424955	NC_021163.1	Ca_kabuli_chr04	17424955	GG	AA	1946797261
SNP_P4_44488_17424989	NC_021163.1	Ca_kabuli_chr04	17424989	CC	TT	1946797264
SNP_P4_44489_17425002	NC_021163.1	Ca_kabuli_chr04	17425002	TT	AA	1946797266
SNP_P4_44490_17425018	NC_021163.1	Ca_kabuli_chr04	17425018	TT	CC	1946797268
SNP_P4_44491_17425610	NC_021163.1	Ca_kabuli_chr04	17425610	CC	TT	1946797270
SNP_P4_44492_17425659	NC_021163.1	Ca_kabuli_chr04	17425659	CC	TT	1946797272
SNP_P4_44493_17425660	NC_021163.1	Ca_kabuli_chr04	17425660	GG	AA	1946797274
SNP_P4_44494_17425665	NC_021163.1	Ca_kabuli_chr04	17425665	TT	CC	1946797276
SNP_P4_44495_17425952	NC_021163.1	Ca_kabuli_chr04	17425952	AA	GG	1946797279
SNP_P4_44496_17426424	NC_021163.1	Ca_kabuli_chr04	17426424	CC	AA	1946797281
SNP_P4_44497_17429113	NC_021163.1	Ca_kabuli_chr04	17429113	TT	AA	1946797283
SNP_P4_44498_17429116	NC_021163.1	Ca_kabuli_chr04	17429116	TT	CC	1946797285
SNP_P4_44499_17429165	NC_021163.1	Ca_kabuli_chr04	17429165	TT	GG	1946797287
SNP_P4_44500_17430084	NC_021163.1	Ca_kabuli_chr04	17430084	TT	CC	1946797290
SNP_P4_44501_17430504	NC_021163.1	Ca_kabuli_chr04	17430504	CC	AA	1946797292
SNP_P4_44502_17431248	NC_021163.1	Ca_kabuli_chr04	17431248	GG	TT	1946797294
SNP_P4_44503_17431464	NC_021163.1	Ca_kabuli_chr04	17431464	GG	AA	1946797296
SNP_P4_44504_17431553	NC_021163.1	Ca_kabuli_chr04	17431553	AA	GG	1946797298
SNP_P4_44506_17431595	NC_021163.1	Ca_kabuli_chr04	17431595	GG	AA	1946797300
SNP_P4_44509_17431814	NC_021163.1	Ca_kabuli_chr04	17431814	GG	AA	1946797302
SNP_P4_44510_17432208	NC_021163.1	Ca_kabuli_chr04	17432208	CC	TT	1946797304
SNP_P4_44511_17432209	NC_021163.1	Ca_kabuli_chr04	17432209	GG	AA	1946797307
SNP_P4_44512_17432425	NC_021163.1	Ca_kabuli_chr04	17432425	GG	TT	1946797309
SNP_P4_44514_17432850	NC_021163.1	Ca_kabuli_chr04	17432850	TT	AA	1946797311
SNP_P4_44517_17434081	NC_021163.1	Ca_kabuli_chr04	17434081	GG	TT	1946797313
SNP_P4_44518_17434664	NC_021163.1	Ca_kabuli_chr04	17434664	CC	TT	1946797315
SNP_P4_44519_17434687	NC_021163.1	Ca_kabuli_chr04	17434687	TT	CC	1946797317
SNP_P4_44520_17434712	NC_021163.1	Ca_kabuli_chr04	17434712	GG	AA	1946797319
SNP_P4_44521_17434716	NC_021163.1	Ca_kabuli_chr04	17434716	GG	AA	1946797321
SNP_P4_44522_17434765	NC_021163.1	Ca_kabuli_chr04	17434765	AA	GG	1946797323
SNP_P4_44523_17435030	NC_021163.1	Ca_kabuli_chr04	17435030	AA	GG	1946797325
SNP_P4_44524_17435036	NC_021163.1	Ca_kabuli_chr04	17435036	TT	CC	1946797328
SNP_P4_44525_17435058	NC_021163.1	Ca_kabuli_chr04	17435058	AA	GG	1946797329
SNP_P4_44526_17435064	NC_021163.1	Ca_kabuli_chr04	17435064	AA	TT	1946797331

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_44528_17435419	NC_021163.1	Ca_kabuli_chr04	17435419	AA	GG	1946797335
SNP_P4_44529_17435422	NC_021163.1	Ca_kabuli_chr04	17435422	AA	GG	1946797338
SNP_P4_44530_17435437	NC_021163.1	Ca_kabuli_chr04	17435437	AA	GG	1946797339
SNP_P4_44531_17435443	NC_021163.1	Ca_kabuli_chr04	17435443	GG	AA	1946797341
SNP_P4_44532_17436250	NC_021163.1	Ca_kabuli_chr04	17436250	TT	AA	1946797343
SNP_P4_44533_17436279	NC_021163.1	Ca_kabuli_chr04	17436279	TT	GG	1946797345
SNP_P4_44534_17436281	NC_021163.1	Ca_kabuli_chr04	17436281	GG	TT	1946797347
SNP_P4_44535_17436288	NC_021163.1	Ca_kabuli_chr04	17436288	AA	GG	1946797349
SNP_P4_44536_17436359	NC_021163.1	Ca_kabuli_chr04	17436359	AA	GG	1946797351
SNP_P4_44537_17436363	NC_021163.1	Ca_kabuli_chr04	17436363	CC	TT	1946797353
SNP_P4_44538_17436792	NC_021163.1	Ca_kabuli_chr04	17436792	CC	TT	1946797356
SNP_P4_44539_17436799	NC_021163.1	Ca_kabuli_chr04	17436799	GG	AA	1946797358
SNP_P4_44540_17436804	NC_021163.1	Ca_kabuli_chr04	17436804	CC	TT	1946797360
SNP_P4_44541_17437640	NC_021163.1	Ca_kabuli_chr04	17437640	CC	TT	1946797362
SNP_P4_44542_17438875	NC_021163.1	Ca_kabuli_chr04	17438875	CC	AA	1946797364
SNP_P4_44543_17438893	NC_021163.1	Ca_kabuli_chr04	17438893	CC	AA	1946797366
SNP_P4_44544_17438947	NC_021163.1	Ca_kabuli_chr04	17438947	AA	TT	1946797368
SNP_P4_44547_17439333	NC_021163.1	Ca_kabuli_chr04	17439333	CC	TT	1946797370
SNP_P4_44548_17439595	NC_021163.1	Ca_kabuli_chr04	17439595	CC	AA	1946797372
SNP_P4_44549_17439634	NC_021163.1	Ca_kabuli_chr04	17439634	TT	CC	1946797374
SNP_P4_44550_17440096	NC_021163.1	Ca_kabuli_chr04	17440096	AA	TT	1946797377
SNP_P4_44551_17440110	NC_021163.1	Ca_kabuli_chr04	17440110	GG	AA	1946797379
SNP_P4_44552_17440677	NC_021163.1	Ca_kabuli_chr04	17440677	TT	AA	1946797381
SNP_P4_44553_17440860	NC_021163.1	Ca_kabuli_chr04	17440860	CC	TT	1946797383
SNP_P4_44554_17442460	NC_021163.1	Ca_kabuli_chr04	17442460	TT	CC	1946797385
SNP_P4_44555_17443056	NC_021163.1	Ca_kabuli_chr04	17443056	AA	GG	1946797387
SNP_P4_44556_17443121	NC_021163.1	Ca_kabuli_chr04	17443121	CC	TT	1946797390
SNP_P4_44558_17452837	NC_021163.1	Ca_kabuli_chr04	17452837	AA	CC	1946797392
SNP_P4_44559_17455570	NC_021163.1	Ca_kabuli_chr04	17455570	TT	GG	1946797394
SNP_P4_44560_17457665	NC_021163.1	Ca_kabuli_chr04	17457665	CC	TT	1946797396
SNP_P4_44561_17457908	NC_021163.1	Ca_kabuli_chr04	17457908	GG	TT	1946797398
SNP_P4_44562_17458120	NC_021163.1	Ca_kabuli_chr04	17458120	GG	AA	1946797400
SNP_P4_44563_17458154	NC_021163.1	Ca_kabuli_chr04	17458154	GG	AA	1946797402
SNP_P4_44564_17458318	NC_021163.1	Ca_kabuli_chr04	17458318	TT	CC	1946797404
SNP_P4_44565_17458322	NC_021163.1	Ca_kabuli_chr04	17458322	AA	CC	1946797406
SNP_P4_44566_17458331	NC_021163.1	Ca_kabuli_chr04	17458331	AA	GG	1946797408
SNP_P4_44567_17458374	NC_021163.1	Ca_kabuli_chr04	17458374	CC	TT	1946797411
SNP_P4_44568_17458396	NC_021163.1	Ca_kabuli_chr04	17458396	GG	AA	1946797413
SNP_P4_44569_17459620	NC_021163.1	Ca_kabuli_chr04	17459620	AA	GG	1946797415
SNP_P4_44570_17459659	NC_021163.1	Ca_kabuli_chr04	17459659	CC	TT	1946797417
SNP_P4_44572_17461204	NC_021163.1	Ca_kabuli_chr04	17461204	TT	GG	1946797419

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_44574_17462034	NC_021163.1	Ca_kabuli_chr04	17462034	TT	CC	1946797424
SNP_P4_44575_17462146	NC_021163.1	Ca_kabuli_chr04	17462146	TT	CC	1946797426
SNP_P4_44576_17462437	NC_021163.1	Ca_kabuli_chr04	17462437	GG	TT	1946797428
SNP_P4_44577_17462628	NC_021163.1	Ca_kabuli_chr04	17462628	AA	GG	1946797430
SNP_P4_44578_17462725	NC_021163.1	Ca_kabuli_chr04	17462725	AA	GG	1946797432
SNP_P4_44579_17462821	NC_021163.1	Ca_kabuli_chr04	17462821	CC	TT	1946797434
SNP_P4_44580_17462827	NC_021163.1	Ca_kabuli_chr04	17462827	TT	CC	1946797436
SNP_P4_44581_17462842	NC_021163.1	Ca_kabuli_chr04	17462842	AA	GG	1946797438
SNP_P4_44582_17462865	NC_021163.1	Ca_kabuli_chr04	17462865	AA	TT	1946797440
SNP_P4_44583_17462874	NC_021163.1	Ca_kabuli_chr04	17462874	AA	GG	1946797442
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SNP_P4_44585_17462977	NC_021163.1	Ca_kabuli_chr04	17462977	GG	AA	1946797446
SNP_P4_44587_17463045	NC_021163.1	Ca_kabuli_chr04	17463045	GG	AA	1946797448
SNP_P4_44588_17463051	NC_021163.1	Ca_kabuli_chr04	17463051	GG	AA	1946797450
SNP_P4_44589_17463403	NC_021163.1	Ca_kabuli_chr04	17463403	CC	TT	1946797452
SNP_P4_44590_17464171	NC_021163.1	Ca_kabuli_chr04	17464171	TT	AA	1946797454
SNP_P4_44593_17464282	NC_021163.1	Ca_kabuli_chr04	17464282	CC	TT	1946797456
SNP_P4_44594_17464338	NC_021163.1	Ca_kabuli_chr04	17464338	GG	AA	1946797458
SNP_P4_44595_17464956	NC_021163.1	Ca_kabuli_chr04	17464956	CC	TT	1946797460
SNP_P4_44596_17465547	NC_021163.1	Ca_kabuli_chr04	17465547	GG	AA	1946797462
SNP_P4_44597_17466772	NC_021163.1	Ca_kabuli_chr04	17466772	TT	CC	1946797464
SNP_P4_44598_17467667	NC_021163.1	Ca_kabuli_chr04	17467667	TT	AA	1946797466
SNP_P4_44599_17467687	NC_021163.1	Ca_kabuli_chr04	17467687	CC	TT	1946797468
SNP_P4_44600_17467875	NC_021163.1	Ca_kabuli_chr04	17467875	TT	GG	1946797470
SNP_P4_44601_17468085	NC_021163.1	Ca_kabuli_chr04	17468085	GG	AA	1946797472
SNP_P4_44602_17468290	NC_021163.1	Ca_kabuli_chr04	17468290	GG	AA	1946797474
SNP_P4_44603_17468316	NC_021163.1	Ca_kabuli_chr04	17468316	GG	AA	1946797476
SNP_P4_44604_17468335	NC_021163.1	Ca_kabuli_chr04	17468335	CC	TT	1946797478
SNP_P4_44605_17468347	NC_021163.1	Ca_kabuli_chr04	17468347	GG	TT	1946797480
SNP_P4_44606_17468485	NC_021163.1	Ca_kabuli_chr04	17468485	AA	TT	1946797482
SNP_P4_44607_17469278	NC_021163.1	Ca_kabuli_chr04	17469278	CC	TT	1946797484
SNP_P4_44608_17469316	NC_021163.1	Ca_kabuli_chr04	17469316	TT	CC	1946797486
SNP_P4_44609_17469526	NC_021163.1	Ca_kabuli_chr04	17469526	AA	TT	1946797488
SNP_P4_44610_17469553	NC_021163.1	Ca_kabuli_chr04	17469553	GG	AA	1946797490
SNP_P4_44611_17469786	NC_021163.1	Ca_kabuli_chr04	17469786	CC	TT	1946797492
SNP_P4_44612_17470037	NC_021163.1	Ca_kabuli_chr04	17470037	AA	CC	1946797494
SNP_P4_44613_17470838	NC_021163.1	Ca_kabuli_chr04	17470838	GG	AA	1946797496
SNP_P4_44615_17471452	NC_021163.1	Ca_kabuli_chr04	17471452	GG	AA	1946797498
SNP_P4_44616_17471700	NC_021163.1	Ca_kabuli_chr04	17471700	CC	GG	1946797500
SNP_P4_44617_17475106	NC_021163.1	Ca_kabuli_chr04	17475106	TT	AA	1946797502
SNP_P4_44619_17475790	NC_021163.1	Ca_kabuli_chr04	17475790	CC	TT	1946797504

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_44621_17475852	NC_021163.1	Ca_kabuli_chr04	17475852	GG	AA	1946797508
SNP_P4_44622_17476401	NC_021163.1	Ca_kabuli_chr04	17476401	CC	AA	1946797510
SNP_P4_44623_17476411	NC_021163.1	Ca_kabuli_chr04	17476411	TT	AA	1946797512
SNP_P4_44624_17477488	NC_021163.1	Ca_kabuli_chr04	17477488	GG	CC	1946797514
SNP_P4_44625_17478676	NC_021163.1	Ca_kabuli_chr04	17478676	GG	AA	1946797516
SNP_P4_44627_17480621	NC_021163.1	Ca_kabuli_chr04	17480621	GG	AA	1946797518
SNP_P4_44628_17481872	NC_021163.1	Ca_kabuli_chr04	17481872	GG	TT	1946797520
SNP_P4_44631_17483403	NC_021163.1	Ca_kabuli_chr04	17483403	CC	TT	1946797522
SNP_P4_44632_17483838	NC_021163.1	Ca_kabuli_chr04	17483838	TT	CC	1946797524
SNP_P4_44633_17483852	NC_021163.1	Ca_kabuli_chr04	17483852	TT	CC	1946797527
SNP_P4_44635_17485430	NC_021163.1	Ca_kabuli_chr04	17485430	GG	AA	1946797529
SNP_P4_44636_17485575	NC_021163.1	Ca_kabuli_chr04	17485575	TT	CC	1946797531
SNP_P4_44637_17486879	NC_021163.1	Ca_kabuli_chr04	17486879	TT	GG	1946797533
SNP_P4_44638_17486908	NC_021163.1	Ca_kabuli_chr04	17486908	GG	AA	1946797535
SNP_P4_44639_17487044	NC_021163.1	Ca_kabuli_chr04	17487044	GG	AA	1946797537
SNP_P4_44640_17488616	NC_021163.1	Ca_kabuli_chr04	17488616	CC	TT	1946797539
SNP_P4_44641_17488685	NC_021163.1	Ca_kabuli_chr04	17488685	TT	CC	1946797541
SNP_P4_44642_17489309	NC_021163.1	Ca_kabuli_chr04	17489309	CC	TT	1946797544
SNP_P4_44643_17491063	NC_021163.1	Ca_kabuli_chr04	17491063	TT	CC	1946797546
SNP_P4_44644_17491107	NC_021163.1	Ca_kabuli_chr04	17491107	CC	TT	1946797548
SNP_P4_44645_17491527	NC_021163.1	Ca_kabuli_chr04	17491527	TT	AA	1946797550
SNP_P4_44647_17491887	NC_021163.1	Ca_kabuli_chr04	17491887	TT	AA	1946797552
SNP_P4_44648_17493127	NC_021163.1	Ca_kabuli_chr04	17493127	GG	AA	1946797554
SNP_P4_44649_17493422	NC_021163.1	Ca_kabuli_chr04	17493422	GG	TT	1946797556
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SNP_P4_44653_17495211	NC_021163.1	Ca_kabuli_chr04	17495211	GG	CC	1946797561
SNP_P4_44654_17495227	NC_021163.1	Ca_kabuli_chr04	17495227	GG	AA	1946797563
SNP_P4_44655_17495318	NC_021163.1	Ca_kabuli_chr04	17495318	TT	CC	1946797565
SNP_P4_44659_17495450	NC_021163.1	Ca_kabuli_chr04	17495450	AA	GG	1946797567
SNP_P4_44660_17495678	NC_021163.1	Ca_kabuli_chr04	17495678	CC	AA	1946797569
SNP_P4_44662_17497197	NC_021163.1	Ca_kabuli_chr04	17497197	CC	TT	1946797571
SNP_P4_44663_17497227	NC_021163.1	Ca_kabuli_chr04	17497227	CC	TT	1946797573
SNP_P4_44664_17497609	NC_021163.1	Ca_kabuli_chr04	17497609	CC	TT	1946797575
SNP_P4_44665_17498345	NC_021163.1	Ca_kabuli_chr04	17498345	CC	TT	1946797578
SNP_P4_44666_17515057	NC_021163.1	Ca_kabuli_chr04	17515057	AA	CC	1946797580
SNP_P4_44667_17523529	NC_021163.1	Ca_kabuli_chr04	17523529	GG	TT	1946797582
SNP_P4_44669_17524659	NC_021163.1	Ca_kabuli_chr04	17524659	TT	AA	1946797584
SNP_P4_44670_17525957	NC_021163.1	Ca_kabuli_chr04	17525957	GG	TT	1946797586
SNP_P4_44671_17526167	NC_021163.1	Ca_kabuli_chr04	17526167	AA	TT	1946797588
SNP_P4_44672_17526610	NC_021163.1	Ca_kabuli_chr04	17526610	GG	AA	1946797590
SNP_P4_44673_17526907	NC_021163.1	Ca_kabuli_chr04	17526907	TT	CC	1946797592

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_44677_17528094	NC_021163.1	Ca_kabuli_chr04	17528094	AA	CC	1946797598
SNP_P4_44678_17528158	NC_021163.1	Ca_kabuli_chr04	17528158	CC	TT	1946797600
SNP_P4_44679_17528462	NC_021163.1	Ca_kabuli_chr04	17528462	GG	AA	1946797602
SNP_P4_44680_17530458	NC_021163.1	Ca_kabuli_chr04	17530458	GG	AA	1946797604
SNP_P4_44681_17530874	NC_021163.1	Ca_kabuli_chr04	17530874	AA	GG	1946797606
SNP_P4_44682_17531649	NC_021163.1	Ca_kabuli_chr04	17531649	GG	TT	1946797608
SNP_P4_44686_17533158	NC_021163.1	Ca_kabuli_chr04	17533158	GG	TT	1946797610
SNP_P4_44689_17533549	NC_021163.1	Ca_kabuli_chr04	17533549	TT	CC	1946797612
SNP_P4_44690_17533622	NC_021163.1	Ca_kabuli_chr04	17533622	CC	AA	1946797614
SNP_P4_44691_17533675	NC_021163.1	Ca_kabuli_chr04	17533675	AA	GG	1946797616
SNP_P4_44693_17534055	NC_021163.1	Ca_kabuli_chr04	17534055	GG	AA	1946797618
SNP_P4_44694_17534136	NC_021163.1	Ca_kabuli_chr04	17534136	TT	AA	1946797620
SNP_P4_44695_17534186	NC_021163.1	Ca_kabuli_chr04	17534186	AA	CC	1946797622
SNP_P4_44696_17534463	NC_021163.1	Ca_kabuli_chr04	17534463	CC	TT	1946797624
SNP_P4_44697_17534529	NC_021163.1	Ca_kabuli_chr04	17534529	TT	AA	1946797626
SNP_P4_44699_17534738	NC_021163.1	Ca_kabuli_chr04	17534738	TT	CC	1946797628
SNP_P4_44700_17534807	NC_021163.1	Ca_kabuli_chr04	17534807	TT	CC	1946797630
SNP_P4_44701_17534847	NC_021163.1	Ca_kabuli_chr04	17534847	CC	TT	1946797633
SNP_P4_44702_17534888	NC_021163.1	Ca_kabuli_chr04	17534888	AA	TT	1946797635
SNP_P4_44703_17534944	NC_021163.1	Ca_kabuli_chr04	17534944	GG	AA	1946797637
SNP_P4_44705_17535053	NC_021163.1	Ca_kabuli_chr04	17535053	AA	GG	1946797639
SNP_P4_44706_17535275	NC_021163.1	Ca_kabuli_chr04	17535275	GG	AA	1946797641
SNP_P4_44707_17535297	NC_021163.1	Ca_kabuli_chr04	17535297	AA	TT	1946797643
SNP_P4_44708_17536750	NC_021163.1	Ca_kabuli_chr04	17536750	GG	AA	1946797645
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SNP_P4_44710_17538063	NC_021163.1	Ca_kabuli_chr04	17538063	CC	TT	1946797649
SNP_P4_44711_17542928	NC_021163.1	Ca_kabuli_chr04	17542928	AA	CC	1946797651
SNP_P4_44713_17545746	NC_021163.1	Ca_kabuli_chr04	17545746	TT	AA	1946797653
SNP_P4_44714_17546268	NC_021163.1	Ca_kabuli_chr04	17546268	AA	GG	1946797655
SNP_P4_44715_17546415	NC_021163.1	Ca_kabuli_chr04	17546415	GG	TT	1946797657
SNP_P4_44716_17548975	NC_021163.1	Ca_kabuli_chr04	17548975	AA	CC	1946797659
SNP_P4_44717_17549220	NC_021163.1	Ca_kabuli_chr04	17549220	GG	AA	1946797661
SNP_P4_44718_17550024	NC_021163.1	Ca_kabuli_chr04	17550024	GG	AA	1946797663
SNP_P4_44719_17551844	NC_021163.1	Ca_kabuli_chr04	17551844	GG	AA	1946797665
SNP_P4_44720_17552224	NC_021163.1	Ca_kabuli_chr04	17552224	GG	AA	1946797667
SNP_P4_44721_17554811	NC_021163.1	Ca_kabuli_chr04	17554811	AA	TT	1946797669
SNP_P4_44722_17556596	NC_021163.1	Ca_kabuli_chr04	17556596	CC	TT	1946797671
SNP_P4_44723_17556822	NC_021163.1	Ca_kabuli_chr04	17556822	GG	AA	1946797673
SNP_P4_44724_17557932	NC_021163.1	Ca_kabuli_chr04	17557932	GG	TT	1946797675
SNP_P4_44725_17558801	NC_021163.1	Ca_kabuli_chr04	17558801	AA	GG	1946797677

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_44727_17560995	NC_021163.1	Ca_kabuli_chr04	17560995	GG	AA	1946797681
SNP_P4_44728_17561103	NC_021163.1	Ca_kabuli_chr04	17561103	AA	CC	1946797683
SNP_P4_44729_17561114	NC_021163.1	Ca_kabuli_chr04	17561114	CC	TT	1946797685
SNP_P4_44730_17562075	NC_021163.1	Ca_kabuli_chr04	17562075	TT	GG	1946797687
SNP_P4_44731_17562084	NC_021163.1	Ca_kabuli_chr04	17562084	TT	CC	1946797689
SNP_P4_44732_17563560	NC_021163.1	Ca_kabuli_chr04	17563560	CC	TT	1946797691
SNP_P4_44733_17566576	NC_021163.1	Ca_kabuli_chr04	17566576	CC	TT	1946797693
SNP_P4_44734_17567079	NC_021163.1	Ca_kabuli_chr04	17567079	TT	CC	1946797695
SNP_P4_44736_17568228	NC_021163.1	Ca_kabuli_chr04	17568228	TT	AA	1946797697
SNP_P4_44737_17573679	NC_021163.1	Ca_kabuli_chr04	17573679	TT	CC	1946797700
SNP_P4_44738_17580830	NC_021163.1	Ca_kabuli_chr04	17580830	CC	TT	1946797702
SNP_P4_44739_17581562	NC_021163.1	Ca_kabuli_chr04	17581562	GG	AA	1946797704
SNP_P4_44740_17581593	NC_021163.1	Ca_kabuli_chr04	17581593	AA	GG	1946797706
SNP_P4_44741_17581611	NC_021163.1	Ca_kabuli_chr04	17581611	AA	TT	1946797708
SNP_P4_44742_17581647	NC_021163.1	Ca_kabuli_chr04	17581647	CC	TT	1946797710
SNP_P4_44743_17581676	NC_021163.1	Ca_kabuli_chr04	17581676	CC	GG	1946797712
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SNP_P4_44748_17585992	NC_021163.1	Ca_kabuli_chr04	17585992	CC	TT	1946797722
SNP_P4_44749_17588425	NC_021163.1	Ca_kabuli_chr04	17588425	AA	GG	1946797725
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SNP_P4_44752_17589143	NC_021163.1	Ca_kabuli_chr04	17589143	GG	AA	1946797729
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SNP_P4_44755_17595864	NC_021163.1	Ca_kabuli_chr04	17595864	TT	AA	1946797736
SNP_P4_44756_17596054	NC_021163.1	Ca_kabuli_chr04	17596054	GG	TT	1946797738
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SNP_P4_44760_17597982	NC_021163.1	Ca_kabuli_chr04	17597982	TT	GG	1946797746
SNP_P4_44761_17598088	NC_021163.1	Ca_kabuli_chr04	17598088	CC	GG	1946797748
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SNP_P4_44763_17599005	NC_021163.1	Ca_kabuli_chr04	17599005	GG	CC	1946797752
SNP_P4_44764_17599183	NC_021163.1	Ca_kabuli_chr04	17599183	AA	TT	1946797754
SNP_P4_44765_17599223	NC_021163.1	Ca_kabuli_chr04	17599223	TT	AA	1946797756
SNP_P4_44766_17599307	NC_021163.1	Ca_kabuli_chr04	17599307	AA	GG	1946797758
SNP_P4_44767_17599326	NC_021163.1	Ca_kabuli_chr04	17599326	AA	GG	1946797761
SNP_P4_44768_17599438	NC_021163.1	Ca_kabuli_chr04	17599438	GG	CC	1946797763
SNP_P4_44769_17599439	NC_021163.1	Ca_kabuli_chr04	17599439	AA	GG	1946797765

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_44772_17600078	NC_021163.1	Ca_kabuli_chr04	17600078	TT	CC	1946797769
SNP_P4_44773_17600259	NC_021163.1	Ca_kabuli_chr04	17600259	GG	AA	1946797771
SNP_P4_44774_17600264	NC_021163.1	Ca_kabuli_chr04	17600264	AA	TT	1946797773
SNP_P4_44775_17600292	NC_021163.1	Ca_kabuli_chr04	17600292	CC	GG	1946797775
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SNP_P4_44777_17600324	NC_021163.1	Ca_kabuli_chr04	17600324	TT	CC	1946797779
SNP_P4_44778_17600388	NC_021163.1	Ca_kabuli_chr04	17600388	TT	GG	1946797781
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SNP_P4_44781_17600562	NC_021163.1	Ca_kabuli_chr04	17600562	TT	GG	1946797787
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SNP_P4_44783_17600744	NC_021163.1	Ca_kabuli_chr04	17600744	GG	AA	1946797791
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SNP_P4_44789_17601081	NC_021163.1	Ca_kabuli_chr04	17601081	TT	AA	1946797799
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SNP_P4_44791_17601603	NC_021163.1	Ca_kabuli_chr04	17601603	GG	AA	1946797804
SNP_P4_44792_17601607	NC_021163.1	Ca_kabuli_chr04	17601607	CC	AA	1946797806
SNP_P4_44794_17601646	NC_021163.1	Ca_kabuli_chr04	17601646	TT	AA	1946797808
SNP_P4_44795_17601815	NC_021163.1	Ca_kabuli_chr04	17601815	CC	TT	1946797810
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SNP_P4_44797_17601835	NC_021163.1	Ca_kabuli_chr04	17601835	GG	AA	1946797814
SNP_P4_44799_17601933	NC_021163.1	Ca_kabuli_chr04	17601933	TT	GG	1946797816
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SNP_P4_44801_17602202	NC_021163.1	Ca_kabuli_chr04	17602202	GG	AA	1946797820
SNP_P4_44802_17602228	NC_021163.1	Ca_kabuli_chr04	17602228	GG	AA	1946797822
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SNP_P4_44804_17602243	NC_021163.1	Ca_kabuli_chr04	17602243	GG	AA	1946797826
SNP_P4_44805_17602244	NC_021163.1	Ca_kabuli_chr04	17602244	TT	GG	1946797828
SNP_P4_44806_17602321	NC_021163.1	Ca_kabuli_chr04	17602321	CC	TT	1946797830
SNP_P4_44807_17602346	NC_021163.1	Ca_kabuli_chr04	17602346	CC	TT	1946797832
SNP_P4_44809_17608551	NC_021163.1	Ca_kabuli_chr04	17608551	TT	CC	1946797834
SNP_P4_44811_17608847	NC_021163.1	Ca_kabuli_chr04	17608847	GG	AA	1946797836
SNP_P4_44812_17609043	NC_021163.1	Ca_kabuli_chr04	17609043	TT	CC	1946797838
SNP_P4_44813_17609489	NC_021163.1	Ca_kabuli_chr04	17609489	GG	TT	1946797840
SNP_P4_44814_17610040	NC_021163.1	Ca_kabuli_chr04	17610040	AA	TT	1946797842
SNP_P4_44815_17610610	NC_021163.1	Ca_kabuli_chr04	17610610	CC	AA	1946797844
SNP_P4_44816_17610727	NC_021163.1	Ca_kabuli_chr04	17610727	TT	CC	1946797846
SNP_P4_44817_17610951	NC_021163.1	Ca_kabuli_chr04	17610951	AA	GG	1946797848

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_44818_17610987	NC_021163.1	Ca_kabuli_chr04	17610987	TT	CC	1946797850
SNP_P4_44819_17611323	NC_021163.1	Ca_kabuli_chr04	17611323	CC	TT	1946797852
SNP_P4_44820_17611497	NC_021163.1	Ca_kabuli_chr04	17611497	GG	AA	1946797854
SNP_P4_44822_17614741	NC_021163.1	Ca_kabuli_chr04	17614741	TT	GG	1946797857
SNP_P4_44823_17614817	NC_021163.1	Ca_kabuli_chr04	17614817	AA	CC	1946797859
SNP_P4_44824_17616662	NC_021163.1	Ca_kabuli_chr04	17616662	AA	GG	1946797861
SNP_P4_44825_17617191	NC_021163.1	Ca_kabuli_chr04	17617191	AA	GG	1946797863
SNP_P4_44826_17617489	NC_021163.1	Ca_kabuli_chr04	17617489	GG	TT	1946797865
SNP_P4_44827_17617670	NC_021163.1	Ca_kabuli_chr04	17617670	GG	AA	1946797867
SNP_P4_44828_17617701	NC_021163.1	Ca_kabuli_chr04	17617701	CC	TT	1946797869
SNP_P4_44829_17618625	NC_021163.1	Ca_kabuli_chr04	17618625	TT	CC	1946797871
SNP_P4_44830_17620396	NC_021163.1	Ca_kabuli_chr04	17620396	TT	CC	1946797873
SNP_P4_44831_17620704	NC_021163.1	Ca_kabuli_chr04	17620704	AA	GG	1946797875
SNP_P4_44832_17620756	NC_021163.1	Ca_kabuli_chr04	17620756	TT	AA	1946797877
SNP_P4_44833_17621380	NC_021163.1	Ca_kabuli_chr04	17621380	TT	AA	1946797879
SNP_P4_44834_17621423	NC_021163.1	Ca_kabuli_chr04	17621423	GG	CC	1946797882
SNP_P4_44835_17624930	NC_021163.1	Ca_kabuli_chr04	17624930	TT	CC	1946797884
SNP_P4_44836_17625163	NC_021163.1	Ca_kabuli_chr04	17625163	TT	CC	1946797886
SNP_P4_44837_17625168	NC_021163.1	Ca_kabuli_chr04	17625168	AA	GG	1946797888
SNP_P4_44838_17625171	NC_021163.1	Ca_kabuli_chr04	17625171	GG	AA	1946797890
SNP_P4_44839_17625176	NC_021163.1	Ca_kabuli_chr04	17625176	TT	AA	1946797892
SNP_P4_44840_17625198	NC_021163.1	Ca_kabuli_chr04	17625198	TT	CC	1946797894
SNP_P4_44841_17625771	NC_021163.1	Ca_kabuli_chr04	17625771	TT	CC	1946797896
SNP_P4_44843_17626731	NC_021163.1	Ca_kabuli_chr04	17626731	AA	GG	1946797898
SNP_P4_44844_17627028	NC_021163.1	Ca_kabuli_chr04	17627028	CC	TT	1946797900
SNP_P4_44845_17627039	NC_021163.1	Ca_kabuli_chr04	17627039	TT	GG	1946797902
SNP_P4_44846_17628231	NC_021163.1	Ca_kabuli_chr04	17628231	TT	CC	1946797904
SNP_P4_44847_17628278	NC_021163.1	Ca_kabuli_chr04	17628278	AA	TT	1946797906
SNP_P4_44849_17628892	NC_021163.1	Ca_kabuli_chr04	17628892	CC	AA	1946797908
SNP_P4_44850_17628910	NC_021163.1	Ca_kabuli_chr04	17628910	GG	AA	1946797910
SNP_P4_44851_17629415	NC_021163.1	Ca_kabuli_chr04	17629415	TT	GG	1946797912
SNP_P4_44852_17631450	NC_021163.1	Ca_kabuli_chr04	17631450	GG	AA	1946797914
SNP_P4_44853_17631456	NC_021163.1	Ca_kabuli_chr04	17631456	GG	CC	1946797916
SNP_P4_44855_17632470	NC_021163.1	Ca_kabuli_chr04	17632470	TT	CC	1946797918
SNP_P4_44856_17632556	NC_021163.1	Ca_kabuli_chr04	17632556	CC	TT	1946797919
SNP_P4_44857_17632621	NC_021163.1	Ca_kabuli_chr04	17632621	TT	CC	1946797921
SNP_P4_44858_17632682	NC_021163.1	Ca_kabuli_chr04	17632682	CC	TT	1946797923
SNP_P4_44859_17632695	NC_021163.1	Ca_kabuli_chr04	17632695	GG	AA	1946797925
SNP_P4_44860_17633666	NC_021163.1	Ca_kabuli_chr04	17633666	TT	CC	1946797927
SNP_P4_44861_17634865	NC_021163.1	Ca_kabuli_chr04	17634865	GG	AA	1946797929
SNP_P4_44864_17636250	NC_021163.1	Ca_kabuli_chr04	17636250	AA	GG	1946797931
SNP_P4_44865_17636811	NC_021163.1	Ca_kabuli_chr04	17636811	AA	GG	1946797934

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_44867_17637196	NC_021163.1	Ca_kabuli_chr04	17637196	CC	TT	1946797938
SNP_P4_44868_17638788	NC_021163.1	Ca_kabuli_chr04	17638788	TT	CC	1946797940
SNP_P4_44870_17640357	NC_021163.1	Ca_kabuli_chr04	17640357	GG	TT	1946797942
SNP_P4_44872_17640707	NC_021163.1	Ca_kabuli_chr04	17640707	GG	AA	1946797944
SNP_P4_44873_17640760	NC_021163.1	Ca_kabuli_chr04	17640760	CC	TT	1946797946
SNP_P4_44874_17641750	NC_021163.1	Ca_kabuli_chr04	17641750	GG	AA	1946797949
SNP_P4_44875_17642087	NC_021163.1	Ca_kabuli_chr04	17642087	CC	TT	1946797951
SNP_P4_44876_17642136	NC_021163.1	Ca_kabuli_chr04	17642136	TT	AA	1946797953
SNP_P4_44877_17642427	NC_021163.1	Ca_kabuli_chr04	17642427	TT	CC	1946797955
SNP_P4_44878_17642451	NC_021163.1	Ca_kabuli_chr04	17642451	GG	AA	1946797957
SNP_P4_44879_17643177	NC_021163.1	Ca_kabuli_chr04	17643177	AA	GG	1946797959
SNP_P4_44880_17645014	NC_021163.1	Ca_kabuli_chr04	17645014	CC	TT	1946797961
SNP_P4_44882_17645707	NC_021163.1	Ca_kabuli_chr04	17645707	TT	CC	1946797963
SNP_P4_44883_17646014	NC_021163.1	Ca_kabuli_chr04	17646014	GG	CC	1946797965
SNP_P4_44884_17646108	NC_021163.1	Ca_kabuli_chr04	17646108	AA	TT	1946797968
SNP_P4_44885_17647478	NC_021163.1	Ca_kabuli_chr04	17647478	AA	GG	1946797970
SNP_P4_44886_17647558	NC_021163.1	Ca_kabuli_chr04	17647558	AA	GG	1946797972
SNP_P4_44887_17647905	NC_021163.1	Ca_kabuli_chr04	17647905	AA	GG	1946797974
SNP_P4_44888_17648836	NC_021163.1	Ca_kabuli_chr04	17648836	TT	CC	1946797976
SNP_P4_44889_17648970	NC_021163.1	Ca_kabuli_chr04	17648970	AA	GG	1946797978
SNP_P4_44890_17648975	NC_021163.1	Ca_kabuli_chr04	17648975	GG	AA	1946797980
SNP_P4_44891_17649235	NC_021163.1	Ca_kabuli_chr04	17649235	CC	TT	1946797982
SNP_P4_44892_17649537	NC_021163.1	Ca_kabuli_chr04	17649537	CC	AA	1946797984
SNP_P4_44893_17649550	NC_021163.1	Ca_kabuli_chr04	17649550	TT	AA	1946797986
SNP_P4_44894_17649577	NC_021163.1	Ca_kabuli_chr04	17649577	AA	TT	1946797988
SNP_P4_44896_17649830	NC_021163.1	Ca_kabuli_chr04	17649830	GG	AA	1946797990
SNP_P4_44897_17649847	NC_021163.1	Ca_kabuli_chr04	17649847	AA	GG	1946797992
SNP_P4_44898_17649884	NC_021163.1	Ca_kabuli_chr04	17649884	CC	TT	1946797995
SNP_P4_44899_17649888	NC_021163.1	Ca_kabuli_chr04	17649888	TT	CC	1946797997
SNP_P4_44900_17650144	NC_021163.1	Ca_kabuli_chr04	17650144	CC	AA	1946797999
SNP_P4_44903_17650634	NC_021163.1	Ca_kabuli_chr04	17650634	GG	CC	1946798001
SNP_P4_44904_17650639	NC_021163.1	Ca_kabuli_chr04	17650639	AA	GG	1946798003
SNP_P4_44906_17653724	NC_021163.1	Ca_kabuli_chr04	17653724	TT	CC	1946798005
SNP_P4_44907_17653739	NC_021163.1	Ca_kabuli_chr04	17653739	TT	CC	1946798007
SNP_P4_44909_17654163	NC_021163.1	Ca_kabuli_chr04	17654163	TT	AA	1946798009
SNP_P4_44911_17654613	NC_021163.1	Ca_kabuli_chr04	17654613	GG	TT	1946798011
SNP_P4_44912_17654954	NC_021163.1	Ca_kabuli_chr04	17654954	TT	CC	1946798013
SNP_P4_44913_17654957	NC_021163.1	Ca_kabuli_chr04	17654957	AA	GG	1946798015
SNP_P4_44914_17656339	NC_021163.1	Ca_kabuli_chr04	17656339	GG	AA	1946798017
SNP_P4_44915_17656357	NC_021163.1	Ca_kabuli_chr04	17656357	TT	CC	1946798019
SNP_P4_44916_17656406	NC_021163.1	Ca_kabuli_chr04	17656406	AA	GG	1946798022

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_44918_17656809	NC_021163.1	Ca_kabuli_chr04	17656809	GG	AA	1946798026
SNP_P4_44919_17656876	NC_021163.1	Ca_kabuli_chr04	17656876	TT	GG	1946798028
SNP_P4_44920_17656877	NC_021163.1	Ca_kabuli_chr04	17656877	GG	AA	1946798030
SNP_P4_44921_17659173	NC_021163.1	Ca_kabuli_chr04	17659173	CC	TT	1946798032
SNP_P4_44922_17659174	NC_021163.1	Ca_kabuli_chr04	17659174	TT	CC	1946798034
SNP_P4_44923_17659357	NC_021163.1	Ca_kabuli_chr04	17659357	GG	AA	1946798036
SNP_P4_44924_17659358	NC_021163.1	Ca_kabuli_chr04	17659358	CC	TT	1946798038
SNP_P4_44925_17659565	NC_021163.1	Ca_kabuli_chr04	17659565	AA	GG	1946798040
SNP_P4_44926_17661077	NC_021163.1	Ca_kabuli_chr04	17661077	GG	AA	1946798042
SNP_P4_44929_17662437	NC_021163.1	Ca_kabuli_chr04	17662437	GG	AA	1946798045
SNP_P4_44930_17663577	NC_021163.1	Ca_kabuli_chr04	17663577	TT	CC	1946798047
SNP_P4_44932_17663691	NC_021163.1	Ca_kabuli_chr04	17663691	AA	CC	1946798049
SNP_P4_44933_17664510	NC_021163.1	Ca_kabuli_chr04	17664510	AA	GG	1946798051
SNP_P4_44934_17664741	NC_021163.1	Ca_kabuli_chr04	17664741	AA	GG	1946798053
SNP_P4_44935_17665757	NC_021163.1	Ca_kabuli_chr04	17665757	CC	TT	1946798055
SNP_P4_44936_17666312	NC_021163.1	Ca_kabuli_chr04	17666312	TT	CC	1946798057
SNP_P4_44937_17666731	NC_021163.1	Ca_kabuli_chr04	17666731	CC	GG	1946798059
SNP_P4_44938_17666776	NC_021163.1	Ca_kabuli_chr04	17666776	AA	GG	1946798061
SNP_P4_44939_17667100	NC_021163.1	Ca_kabuli_chr04	17667100	AA	GG	1946798063
SNP_P4_44940_17667146	NC_021163.1	Ca_kabuli_chr04	17667146	CC	AA	1946798065
SNP_P4_44941_17667811	NC_021163.1	Ca_kabuli_chr04	17667811	AA	GG	1946798067
SNP_P4_44942_17669217	NC_021163.1	Ca_kabuli_chr04	17669217	AA	GG	1946798069
SNP_P4_44943_17671685	NC_021163.1	Ca_kabuli_chr04	17671685	GG	TT	1946798071
SNP_P4_44944_17671697	NC_021163.1	Ca_kabuli_chr04	17671697	CC	TT	1946798073
SNP_P4_44945_17671988	NC_021163.1	Ca_kabuli_chr04	17671988	TT	GG	1946798075
SNP_P4_44946_17672447	NC_021163.1	Ca_kabuli_chr04	17672447	GG	AA	1946798077
SNP_P4_44948_17672722	NC_021163.1	Ca_kabuli_chr04	17672722	AA	GG	1946798079
SNP_P4_44949_17672747	NC_021163.1	Ca_kabuli_chr04	17672747	GG	AA	1946798081
SNP_P4_44950_17672755	NC_021163.1	Ca_kabuli_chr04	17672755	TT	CC	1946798083
SNP_P4_44951_17672756	NC_021163.1	Ca_kabuli_chr04	17672756	TT	CC	1946798085
SNP_P4_44952_17672861	NC_021163.1	Ca_kabuli_chr04	17672861	TT	CC	1946798087
SNP_P4_44953_17672867	NC_021163.1	Ca_kabuli_chr04	17672867	TT	CC	1946798089
SNP_P4_44955_17674760	NC_021163.1	Ca_kabuli_chr04	17674760	CC	TT	1946798091
SNP_P4_44956_17675387	NC_021163.1	Ca_kabuli_chr04	17675387	TT	GG	1946798093
SNP_P4_44957_17675500	NC_021163.1	Ca_kabuli_chr04	17675500	AA	CC	1946798095
SNP_P4_44959_17675684	NC_021163.1	Ca_kabuli_chr04	17675684	GG	AA	1946798097
SNP_P4_44960_17676521	NC_021163.1	Ca_kabuli_chr04	17676521	TT	GG	1946798099
SNP_P4_44961_17676983	NC_021163.1	Ca_kabuli_chr04	17676983	CC	TT	1946798101
SNP_P4_44962_17677076	NC_021163.1	Ca_kabuli_chr04	17677076	TT	CC	1946798103
SNP_P4_44963_17677429	NC_021163.1	Ca_kabuli_chr04	17677429	AA	GG	1946798105
SNP_P4_44965_17677736	NC_021163.1	Ca_kabuli_chr04	17677736	AA	GG	1946798107

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_44967_17680244	NC_021163.1	Ca_kabuli_chr04	17680244	AA	GG	1946798111
SNP_P4_44968_17680429	NC_021163.1	Ca_kabuli_chr04	17680429	CC	TT	1946798113
SNP_P4_44969_17680577	NC_021163.1	Ca_kabuli_chr04	17680577	CC	TT	1946798115
SNP_P4_44970_17680599	NC_021163.1	Ca_kabuli_chr04	17680599	AA	GG	1946798118
SNP_P4_44971_17680911	NC_021163.1	Ca_kabuli_chr04	17680911	AA	GG	1946798120
SNP_P4_44972_17690387	NC_021163.1	Ca_kabuli_chr04	17690387	GG	TT	1946798122
SNP_P4_44973_17690428	NC_021163.1	Ca_kabuli_chr04	17690428	AA	CC	1946798124
SNP_P4_44974_17690454	NC_021163.1	Ca_kabuli_chr04	17690454	TT	CC	1946798126
SNP_P4_44975_17691490	NC_021163.1	Ca_kabuli_chr04	17691490	CC	TT	1946798128
SNP_P4_44976_17693454	NC_021163.1	Ca_kabuli_chr04	17693454	GG	AA	1946798130
SNP_P4_44977_17697694	NC_021163.1	Ca_kabuli_chr04	17697694	CC	TT	1946798132
SNP_P4_44978_17697743	NC_021163.1	Ca_kabuli_chr04	17697743	CC	TT	1946798134
SNP_P4_44979_17697789	NC_021163.1	Ca_kabuli_chr04	17697789	AA	TT	1946798136
SNP_P4_44980_17697799	NC_021163.1	Ca_kabuli_chr04	17697799	AA	GG	1946798138
SNP_P4_44981_17698228	NC_021163.1	Ca_kabuli_chr04	17698228	GG	CC	1946798141
SNP_P4_44982_17699551	NC_021163.1	Ca_kabuli_chr04	17699551	TT	CC	1946798143
SNP_P4_44983_17700183	NC_021163.1	Ca_kabuli_chr04	17700183	AA	GG	1946798145
SNP_P4_44984_17701225	NC_021163.1	Ca_kabuli_chr04	17701225	CC	AA	1946798147
SNP_P4_44985_17701618	NC_021163.1	Ca_kabuli_chr04	17701618	TT	GG	1946798149
SNP_P4_44987_17701956	NC_021163.1	Ca_kabuli_chr04	17701956	AA	TT	1946798151
SNP_P4_44988_17702280	NC_021163.1	Ca_kabuli_chr04	17702280	TT	CC	1946798153
SNP_P4_44989_17703495	NC_021163.1	Ca_kabuli_chr04	17703495	AA	GG	1946798155
SNP_P4_44990_17703569	NC_021163.1	Ca_kabuli_chr04	17703569	GG	AA	1946798158
SNP_P4_44991_17703703	NC_021163.1	Ca_kabuli_chr04	17703703	TT	AA	1946798160
SNP_P4_44992_17703704	NC_021163.1	Ca_kabuli_chr04	17703704	GG	TT	1946798162
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SNP_P4_44998_17705264	NC_021163.1	Ca_kabuli_chr04	17705264	AA	GG	1946798172
SNP_P4_44999_17705308	NC_021163.1	Ca_kabuli_chr04	17705308	GG	AA	1946798175
SNP_P4_45000_17705378	NC_021163.1	Ca_kabuli_chr04	17705378	TT	CC	1946798177
SNP_P4_45001_17705395	NC_021163.1	Ca_kabuli_chr04	17705395	TT	CC	1946798179
SNP_P4_45003_17707029	NC_021163.1	Ca_kabuli_chr04	17707029	AA	GG	1946798181
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SNP_P4_45006_17707333	NC_021163.1	Ca_kabuli_chr04	17707333	CC	GG	1946798185
SNP_P4_45007_17707345	NC_021163.1	Ca_kabuli_chr04	17707345	TT	CC	1946798187
SNP_P4_45008_17707714	NC_021163.1	Ca_kabuli_chr04	17707714	TT	GG	1946798189
SNP_P4_45009_17712755	NC_021163.1	Ca_kabuli_chr04	17712755	CC	TT	1946798191
SNP_P4_45010_17712884	NC_021163.1	Ca_kabuli_chr04	17712884	GG	AA	1946798193
SNP_P4_45011_17713025	NC_021163.1	Ca_kabuli_chr04	17713025	CC	AA	1946798195

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_45014_17713087	NC_021163.1	Ca_kabuli_chr04	17713087	AA	CC	1946798202
SNP_P4_45016_17713522	NC_021163.1	Ca_kabuli_chr04	17713522	TT	CC	1946798204
SNP_P4_45017_17714847	NC_021163.1	Ca_kabuli_chr04	17714847	TT	AA	1946798206
SNP_P4_45018_17715016	NC_021163.1	Ca_kabuli_chr04	17715016	TT	GG	1946798208
SNP_P4_45020_17715526	NC_021163.1	Ca_kabuli_chr04	17715526	CC	TT	1946798210
SNP_P4_45023_17717170	NC_021163.1	Ca_kabuli_chr04	17717170	TT	CC	1946798212
SNP_P4_45024_17717441	NC_021163.1	Ca_kabuli_chr04	17717441	TT	CC	1946798214
SNP_P4_45025_17718882	NC_021163.1	Ca_kabuli_chr04	17718882	CC	AA	1946798216
SNP_P4_45026_17720730	NC_021163.1	Ca_kabuli_chr04	17720730	AA	CC	1946798218
SNP_P4_45027_17720905	NC_021163.1	Ca_kabuli_chr04	17720905	GG	AA	1946798220
SNP_P4_45028_17721198	NC_021163.1	Ca_kabuli_chr04	17721198	GG	AA	1946798222
SNP_P4_45030_17722061	NC_021163.1	Ca_kabuli_chr04	17722061	GG	AA	1946798224
SNP_P4_45031_17722334	NC_021163.1	Ca_kabuli_chr04	17722334	TT	GG	1946798226
SNP_P4_45032_17722340	NC_021163.1	Ca_kabuli_chr04	17722340	CC	TT	1946798228
SNP_P4_45033_17723871	NC_021163.1	Ca_kabuli_chr04	17723871	TT	CC	1946798230
SNP_P4_45034_17726295	NC_021163.1	Ca_kabuli_chr04	17726295	TT	CC	1946798232
SNP_P4_45035_17726789	NC_021163.1	Ca_kabuli_chr04	17726789	GG	AA	1946798234
SNP_P4_45036_17730535	NC_021163.1	Ca_kabuli_chr04	17730535	CC	TT	1946798236
SNP_P4_45037_17731958	NC_021163.1	Ca_kabuli_chr04	17731958	TT	AA	1946798238
SNP_P4_45038_17732902	NC_021163.1	Ca_kabuli_chr04	17732902	AA	TT	1946798240
SNP_P4_45039_17732933	NC_021163.1	Ca_kabuli_chr04	17732933	AA	GG	1946798242
SNP_P4_45040_17732942	NC_021163.1	Ca_kabuli_chr04	17732942	TT	GG	1946798244
SNP_P4_45041_17732960	NC_021163.1	Ca_kabuli_chr04	17732960	TT	AA	1946798246
SNP_P4_45042_17732973	NC_021163.1	Ca_kabuli_chr04	17732973	AA	GG	1946798248
SNP_P4_45043_17734713	NC_021163.1	Ca_kabuli_chr04	17734713	CC	TT	1946798250
SNP_P4_45045_17735538	NC_021163.1	Ca_kabuli_chr04	17735538	CC	TT	1946798252
SNP_P4_45046_17735569	NC_021163.1	Ca_kabuli_chr04	17735569	AA	TT	1946798254
SNP_P4_45048_17735617	NC_021163.1	Ca_kabuli_chr04	17735617	TT	AA	1946798256
SNP_P4_45049_17735618	NC_021163.1	Ca_kabuli_chr04	17735618	TT	AA	1946798258
SNP_P4_45050_17735627	NC_021163.1	Ca_kabuli_chr04	17735627	TT	GG	1946798260
SNP_P4_45051_17735639	NC_021163.1	Ca_kabuli_chr04	17735639	GG	TT	1946798262
SNP_P4_45052_17735648	NC_021163.1	Ca_kabuli_chr04	17735648	CC	AA	1946798264
SNP_P4_45054_17735828	NC_021163.1	Ca_kabuli_chr04	17735828	CC	AA	1946798266
SNP_P4_45055_17735888	NC_021163.1	Ca_kabuli_chr04	17735888	CC	TT	1946798268
SNP_P4_45056_17735913	NC_021163.1	Ca_kabuli_chr04	17735913	AA	GG	1946798270
SNP_P4_45057_17735916	NC_021163.1	Ca_kabuli_chr04	17735916	GG	TT	1946798272
SNP_P4_45058_17735926	NC_021163.1	Ca_kabuli_chr04	17735926	CC	AA	1946798274
SNP_P4_45059_17735934	NC_021163.1	Ca_kabuli_chr04	17735934	GG	AA	1946798276
SNP_P4_45060_17737570	NC_021163.1	Ca_kabuli_chr04	17737570	AA	GG	1946798278
SNP_P4_45061_17737600	NC_021163.1	Ca_kabuli_chr04	17737600	TT	CC	1946798280

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_45063_17737958	NC_021163.1	Ca_kabuli_chr04	17737958	TT	CC	1946798284
SNP_P4_45064_17737961	NC_021163.1	Ca_kabuli_chr04	17737961	CC	GG	1946798286
SNP_P4_45065_17738334	NC_021163.1	Ca_kabuli_chr04	17738334	GG	AA	1946798289
SNP_P4_45066_17738850	NC_021163.1	Ca_kabuli_chr04	17738850	CC	TT	1946798291
SNP_P4_45068_17739172	NC_021163.1	Ca_kabuli_chr04	17739172	CC	GG	1946798293
SNP_P4_45070_17739772	NC_021163.1	Ca_kabuli_chr04	17739772	TT	GG	1946798295
SNP_P4_45071_17739798	NC_021163.1	Ca_kabuli_chr04	17739798	TT	GG	1946798297
SNP_P4_45072_17739845	NC_021163.1	Ca_kabuli_chr04	17739845	GG	AA	1946798299
SNP_P4_45073_17739857	NC_021163.1	Ca_kabuli_chr04	17739857	TT	CC	1946798301
SNP_P4_45074_17740029	NC_021163.1	Ca_kabuli_chr04	17740029	TT	GG	1946798303
SNP_P4_45075_17740069	NC_021163.1	Ca_kabuli_chr04	17740069	TT	GG	1946798305
SNP_P4_45076_17740074	NC_021163.1	Ca_kabuli_chr04	17740074	TT	CC	1946798307
SNP_P4_45077_17740082	NC_021163.1	Ca_kabuli_chr04	17740082	AA	TT	1946798309
SNP_P4_45078_17740128	NC_021163.1	Ca_kabuli_chr04	17740128	AA	GG	1946798311
SNP_P4_45079_17740130	NC_021163.1	Ca_kabuli_chr04	17740130	GG	AA	1946798313
SNP_P4_45080_17740152	NC_021163.1	Ca_kabuli_chr04	17740152	AA	GG	1946798315
SNP_P4_45081_17740159	NC_021163.1	Ca_kabuli_chr04	17740159	TT	GG	1946798317
SNP_P4_45082_17740202	NC_021163.1	Ca_kabuli_chr04	17740202	CC	AA	1946798319
SNP_P4_45083_17740275	NC_021163.1	Ca_kabuli_chr04	17740275	AA	CC	1946798321
SNP_P4_45084_17740290	NC_021163.1	Ca_kabuli_chr04	17740290	AA	GG	1946798323
SNP_P4_45085_17740322	NC_021163.1	Ca_kabuli_chr04	17740322	AA	GG	1946798325
SNP_P4_45086_17740637	NC_021163.1	Ca_kabuli_chr04	17740637	AA	CC	1946798327
SNP_P4_45087_17740658	NC_021163.1	Ca_kabuli_chr04	17740658	GG	TT	1946798329
SNP_P4_45088_17740872	NC_021163.1	Ca_kabuli_chr04	17740872	AA	GG	1946798332
SNP_P4_45089_17740947	NC_021163.1	Ca_kabuli_chr04	17740947	AA	TT	1946798334
SNP_P4_45090_17740966	NC_021163.1	Ca_kabuli_chr04	17740966	GG	AA	1946798336
SNP_P4_45091_17740983	NC_021163.1	Ca_kabuli_chr04	17740983	CC	TT	1946798338
SNP_P4_45092_17741162	NC_021163.1	Ca_kabuli_chr04	17741162	CC	AA	1946798340
SNP_P4_45093_17741214	NC_021163.1	Ca_kabuli_chr04	17741214	CC	TT	1946798342
SNP_P4_45094_17741220	NC_021163.1	Ca_kabuli_chr04	17741220	AA	GG	1946798344
SNP_P4_45095_17741496	NC_021163.1	Ca_kabuli_chr04	17741496	CC	TT	1946798346
SNP_P4_45096_17741513	NC_021163.1	Ca_kabuli_chr04	17741513	CC	TT	1946798348
SNP_P4_45097_17741543	NC_021163.1	Ca_kabuli_chr04	17741543	TT	AA	1946798350
SNP_P4_45098_17741553	NC_021163.1	Ca_kabuli_chr04	17741553	AA	CC	1946798352
SNP_P4_45099_17741759	NC_021163.1	Ca_kabuli_chr04	17741759	TT	CC	1946798354
SNP_P4_45100_17741808	NC_021163.1	Ca_kabuli_chr04	17741808	TT	GG	1946798356
SNP_P4_45101_17743436	NC_021163.1	Ca_kabuli_chr04	17743436	TT	CC	1946798358
SNP_P4_45102_17743682	NC_021163.1	Ca_kabuli_chr04	17743682	AA	CC	1946798360
SNP_P4_45103_17743686	NC_021163.1	Ca_kabuli_chr04	17743686	GG	AA	1946798362
SNP_P4_45104_17743723	NC_021163.1	Ca_kabuli_chr04	17743723	GG	TT	1946798364
SNP_P4_45105_17743909	NC_021163.1	Ca_kabuli_chr04	17743909	TT	GG	1946798366

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_45107_17743919	NC_021163.1	Ca_kabuli_chr04	17743919	CC	AA	1946798370
SNP_P4_45108_17743941	NC_021163.1	Ca_kabuli_chr04	17743941	GG	AA	1946798372
SNP_P4_45110_17744465	NC_021163.1	Ca_kabuli_chr04	17744465	TT	CC	1946798375
SNP_P4_45111_17744884	NC_021163.1	Ca_kabuli_chr04	17744884	GG	TT	1946798377
SNP_P4_45112_17745564	NC_021163.1	Ca_kabuli_chr04	17745564	TT	CC	1946798379
SNP_P4_45113_17745565	NC_021163.1	Ca_kabuli_chr04	17745565	AA	GG	1946798381
SNP_P4_45114_17745699	NC_021163.1	Ca_kabuli_chr04	17745699	AA	GG	1946798383
SNP_P4_45115_17749758	NC_021163.1	Ca_kabuli_chr04	17749758	GG	AA	1946798385
SNP_P4_45116_17749856	NC_021163.1	Ca_kabuli_chr04	17749856	TT	CC	1946798387
SNP_P4_45117_17749991	NC_021163.1	Ca_kabuli_chr04	17749991	GG	AA	1946798389
SNP_P4_45118_17753419	NC_021163.1	Ca_kabuli_chr04	17753419	AA	CC	1946798391
SNP_P4_45120_17754479	NC_021163.1	Ca_kabuli_chr04	17754479	GG	AA	1946798393
SNP_P4_45121_17755386	NC_021163.1	Ca_kabuli_chr04	17755386	CC	TT	1946798395
SNP_P4_45122_17756550	NC_021163.1	Ca_kabuli_chr04	17756550	AA	GG	1946798397
SNP_P4_45123_17758348	NC_021163.1	Ca_kabuli_chr04	17758348	TT	CC	1946798398
SNP_P4_45124_17758824	NC_021163.1	Ca_kabuli_chr04	17758824	CC	GG	1946798400
SNP_P4_45127_17759568	NC_021163.1	Ca_kabuli_chr04	17759568	TT	CC	1946798402
SNP_P4_45128_17760284	NC_021163.1	Ca_kabuli_chr04	17760284	GG	CC	1946798404
SNP_P4_45129_17760497	NC_021163.1	Ca_kabuli_chr04	17760497	TT	GG	1946798406
SNP_P4_45130_17760759	NC_021163.1	Ca_kabuli_chr04	17760759	AA	GG	1946798408
SNP_P4_45131_17760853	NC_021163.1	Ca_kabuli_chr04	17760853	GG	TT	1946798410
SNP_P4_45132_17761188	NC_021163.1	Ca_kabuli_chr04	17761188	TT	AA	1946798412
SNP_P4_45133_17761326	NC_021163.1	Ca_kabuli_chr04	17761326	CC	AA	1946798414
SNP_P4_45134_17761649	NC_021163.1	Ca_kabuli_chr04	17761649	GG	TT	1946798416
SNP_P4_45135_17762203	NC_021163.1	Ca_kabuli_chr04	17762203	CC	TT	1946798418
SNP_P4_45136_17762600	NC_021163.1	Ca_kabuli_chr04	17762600	AA	GG	1946798420
SNP_P4_45137_17762792	NC_021163.1	Ca_kabuli_chr04	17762792	AA	CC	1946798422
SNP_P4_45138_17762794	NC_021163.1	Ca_kabuli_chr04	17762794	CC	TT	1946798424
SNP_P4_45139_17763666	NC_021163.1	Ca_kabuli_chr04	17763666	AA	GG	1946798426
SNP_P4_45140_17765250	NC_021163.1	Ca_kabuli_chr04	17765250	GG	CC	1946798429
SNP_P4_45141_17765288	NC_021163.1	Ca_kabuli_chr04	17765288	CC	TT	1946798431
SNP_P4_45142_17765326	NC_021163.1	Ca_kabuli_chr04	17765326	TT	AA	1946798433
SNP_P4_45146_17766909	NC_021163.1	Ca_kabuli_chr04	17766909	AA	TT	1946798435
SNP_P4_45147_17766946	NC_021163.1	Ca_kabuli_chr04	17766946	TT	AA	1946798437
SNP_P4_45148_17766970	NC_021163.1	Ca_kabuli_chr04	17766970	CC	TT	1946798439
SNP_P4_45149_17767127	NC_021163.1	Ca_kabuli_chr04	17767127	TT	CC	1946798441
SNP_P4_45150_17767134	NC_021163.1	Ca_kabuli_chr04	17767134	CC	GG	1946798443
SNP_P4_45151_17768650	NC_021163.1	Ca_kabuli_chr04	17768650	CC	TT	1946798445
SNP_P4_45154_17770150	NC_021163.1	Ca_kabuli_chr04	17770150	TT	GG	1946798447
SNP_P4_45155_17771658	NC_021163.1	Ca_kabuli_chr04	17771658	GG	AA	1946798449
SNP_P4_45156_17771714	NC_021163.1	Ca_kabuli_chr04	17771714	GG	AA	1946798451

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_45158_17773372	NC_021163.1	Ca_kabuli_chr04	17773372	GG	AA	1946798455
SNP_P4_45159_17773634	NC_021163.1	Ca_kabuli_chr04	17773634	GG	AA	1946798457
SNP_P4_45160_17773675	NC_021163.1	Ca_kabuli_chr04	17773675	TT	AA	1946798459
SNP_P4_45161_17774816	NC_021163.1	Ca_kabuli_chr04	17774816	GG	TT	1946798461
SNP_P4_45163_17775186	NC_021163.1	Ca_kabuli_chr04	17775186	CC	TT	1946798463
SNP_P4_45164_17775206	NC_021163.1	Ca_kabuli_chr04	17775206	CC	TT	1946798465
SNP_P4_45165_17775209	NC_021163.1	Ca_kabuli_chr04	17775209	GG	TT	1946798467
SNP_P4_45166_17775920	NC_021163.1	Ca_kabuli_chr04	17775920	CC	TT	1946798469
SNP_P4_45167_17778510	NC_021163.1	Ca_kabuli_chr04	17778510	GG	AA	1946798471
SNP_P4_45168_17778716	NC_021163.1	Ca_kabuli_chr04	17778716	GG	AA	1946798473
SNP_P4_45169_17778718	NC_021163.1	Ca_kabuli_chr04	17778718	AA	GG	1946798475
SNP_P4_45171_17783438	NC_021163.1	Ca_kabuli_chr04	17783438	TT	CC	1946798477
SNP_P4_45172_17784654	NC_021163.1	Ca_kabuli_chr04	17784654	TT	GG	1946798479
SNP_P4_45174_17786731	NC_021163.1	Ca_kabuli_chr04	17786731	GG	AA	1946798481
SNP_P4_45175_17786734	NC_021163.1	Ca_kabuli_chr04	17786734	AA	GG	1946798483
SNP_P4_45176_17786787	NC_021163.1	Ca_kabuli_chr04	17786787	GG	AA	1946798485
SNP_P4_45177_17787053	NC_021163.1	Ca_kabuli_chr04	17787053	AA	TT	1946798488
SNP_P4_45178_17787116	NC_021163.1	Ca_kabuli_chr04	17787116	GG	AA	1946798490
SNP_P4_45179_17793179	NC_021163.1	Ca_kabuli_chr04	17793179	TT	CC	1946798492
SNP_P4_45180_17795870	NC_021163.1	Ca_kabuli_chr04	17795870	GG	CC	1946798494
SNP_P4_45181_17799621	NC_021163.1	Ca_kabuli_chr04	17799621	TT	CC	1946798496
SNP_P4_45182_17810283	NC_021163.1	Ca_kabuli_chr04	17810283	AA	GG	1946798498
SNP_P4_45183_17810295	NC_021163.1	Ca_kabuli_chr04	17810295	TT	CC	1946798501
SNP_P4_45184_17810380	NC_021163.1	Ca_kabuli_chr04	17810380	CC	TT	1946798503
SNP_P4_45185_17810480	NC_021163.1	Ca_kabuli_chr04	17810480	AA	GG	1946798505
SNP_P4_45186_17810556	NC_021163.1	Ca_kabuli_chr04	17810556	AA	GG	1946798507
SNP_P4_45187_17810731	NC_021163.1	Ca_kabuli_chr04	17810731	GG	AA	1946798509
SNP_P4_45188_17810750	NC_021163.1	Ca_kabuli_chr04	17810750	TT	CC	1946798512
SNP_P4_45189_17810752	NC_021163.1	Ca_kabuli_chr04	17810752	TT	AA	1946798514
SNP_P4_45190_17815132	NC_021163.1	Ca_kabuli_chr04	17815132	TT	CC	1946798516
SNP_P4_45191_17816630	NC_021163.1	Ca_kabuli_chr04	17816630	AA	TT	1946798518
SNP_P4_45192_17816643	NC_021163.1	Ca_kabuli_chr04	17816643	GG	AA	1946798520
SNP_P4_45193_17816659	NC_021163.1	Ca_kabuli_chr04	17816659	TT	CC	1946798522
SNP_P4_45194_17819541	NC_021163.1	Ca_kabuli_chr04	17819541	AA	CC	1946798524
SNP_P4_45195_17819937	NC_021163.1	Ca_kabuli_chr04	17819937	CC	TT	1946798526
SNP_P4_45196_17819968	NC_021163.1	Ca_kabuli_chr04	17819968	CC	TT	1946798528
SNP_P4_45198_17823137	NC_021163.1	Ca_kabuli_chr04	17823137	GG	CC	1946798530
SNP_P4_45199_17823505	NC_021163.1	Ca_kabuli_chr04	17823505	AA	GG	1946798532
SNP_P4_45202_17823853	NC_021163.1	Ca_kabuli_chr04	17823853	AA	TT	1946798534
SNP_P4_45203_17823922	NC_021163.1	Ca_kabuli_chr04	17823922	TT	GG	1946798536
SNP_P4_45204_17825076	NC_021163.1	Ca_kabuli_chr04	17825076	AA	GG	1946798538

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_45207_17825442	NC_021163.1	Ca_kabuli_chr04	17825442	GG	TT	1946798542
SNP_P4_45209_17825542	NC_021163.1	Ca_kabuli_chr04	17825542	GG	TT	1946798545
SNP_P4_45211_17825605	NC_021163.1	Ca_kabuli_chr04	17825605	CC	TT	1946798547
SNP_P4_45212_17825607	NC_021163.1	Ca_kabuli_chr04	17825607	CC	TT	1946798549
SNP_P4_45213_17825626	NC_021163.1	Ca_kabuli_chr04	17825626	CC	TT	1946798551
SNP_P4_45214_17825685	NC_021163.1	Ca_kabuli_chr04	17825685	GG	AA	1946798553
SNP_P4_45215_17825707	NC_021163.1	Ca_kabuli_chr04	17825707	CC	AA	1946798555
SNP_P4_45216_17825748	NC_021163.1	Ca_kabuli_chr04	17825748	GG	AA	1946798558
SNP_P4_45217_17825753	NC_021163.1	Ca_kabuli_chr04	17825753	CC	TT	1946798560
SNP_P4_45218_17825773	NC_021163.1	Ca_kabuli_chr04	17825773	GG	AA	1946798562
SNP_P4_45219_17825804	NC_021163.1	Ca_kabuli_chr04	17825804	CC	TT	1946798564
SNP_P4_45220_17825874	NC_021163.1	Ca_kabuli_chr04	17825874	TT	AA	1946798566
SNP_P4_45222_17825956	NC_021163.1	Ca_kabuli_chr04	17825956	TT	CC	1946798568
SNP_P4_45223_17825974	NC_021163.1	Ca_kabuli_chr04	17825974	TT	AA	1946798570
SNP_P4_45225_17826082	NC_021163.1	Ca_kabuli_chr04	17826082	TT	CC	1946798572
SNP_P4_45226_17826110	NC_021163.1	Ca_kabuli_chr04	17826110	TT	CC	1946798575
SNP_P4_45227_17826165	NC_021163.1	Ca_kabuli_chr04	17826165	TT	CC	1946798577
SNP_P4_45228_17827426	NC_021163.1	Ca_kabuli_chr04	17827426	GG	TT	1946798579
SNP_P4_45229_17827454	NC_021163.1	Ca_kabuli_chr04	17827454	AA	CC	1946798581
SNP_P4_45230_17827458	NC_021163.1	Ca_kabuli_chr04	17827458	GG	AA	1946798583
SNP_P4_45231_17829041	NC_021163.1	Ca_kabuli_chr04	17829041	AA	GG	1946798585
SNP_P4_45232_17829105	NC_021163.1	Ca_kabuli_chr04	17829105	TT	GG	1946798587
SNP_P4_45233_17829162	NC_021163.1	Ca_kabuli_chr04	17829162	TT	GG	1946798589
SNP_P4_45234_17829471	NC_021163.1	Ca_kabuli_chr04	17829471	TT	AA	1946798591
SNP_P4_45235_17829807	NC_021163.1	Ca_kabuli_chr04	17829807	AA	GG	1946798594
SNP_P4_45236_17829877	NC_021163.1	Ca_kabuli_chr04	17829877	GG	AA	1946798596
SNP_P4_45237_17830155	NC_021163.1	Ca_kabuli_chr04	17830155	CC	AA	1946798598
SNP_P4_45238_17830754	NC_021163.1	Ca_kabuli_chr04	17830754	TT	CC	1946798600
SNP_P4_45239_17831005	NC_021163.1	Ca_kabuli_chr04	17831005	TT	CC	1946798602
SNP_P4_45240_17831216	NC_021163.1	Ca_kabuli_chr04	17831216	GG	TT	1946798604
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SNP_P4_45242_17831652	NC_021163.1	Ca_kabuli_chr04	17831652	CC	TT	1946798608
SNP_P4_45243_17831653	NC_021163.1	Ca_kabuli_chr04	17831653	AA	GG	1946798610
SNP_P4_45244_17831718	NC_021163.1	Ca_kabuli_chr04	17831718	GG	AA	1946798612
SNP_P4_45245_17831726	NC_021163.1	Ca_kabuli_chr04	17831726	GG	AA	1946798614
SNP_P4_45246_17831966	NC_021163.1	Ca_kabuli_chr04	17831966	TT	CC	1946798616
SNP_P4_45247_17837514	NC_021163.1	Ca_kabuli_chr04	17837514	TT	CC	1946798618
SNP_P4_45248_17839487	NC_021163.1	Ca_kabuli_chr04	17839487	CC	TT	1946798620
SNP_P4_45249_17842630	NC_021163.1	Ca_kabuli_chr04	17842630	TT	CC	1946798622
SNP_P4_45250_17842631	NC_021163.1	Ca_kabuli_chr04	17842631	TT	CC	1946798625
SNP_P4_45251_17842656	NC_021163.1	Ca_kabuli_chr04	17842656	AA	GG	1946798627

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_45253_17842664	NC_021163.1	Ca_kabuli_chr04	17842664	CC	AA	1946798631
SNP_P4_45254_17842667	NC_021163.1	Ca_kabuli_chr04	17842667	TT	CC	1946798633
SNP_P4_45255_17842727	NC_021163.1	Ca_kabuli_chr04	17842727	TT	CC	1946798635
SNP_P4_45256_17842734	NC_021163.1	Ca_kabuli_chr04	17842734	GG	CC	1946798637
SNP_P4_45257_17842736	NC_021163.1	Ca_kabuli_chr04	17842736	GG	AA	1946798639
SNP_P4_45258_17842965	NC_021163.1	Ca_kabuli_chr04	17842965	TT	AA	1946798641
SNP_P4_45259_17843003	NC_021163.1	Ca_kabuli_chr04	17843003	CC	AA	1946798643
SNP_P4_45260_17843088	NC_021163.1	Ca_kabuli_chr04	17843088	AA	CC	1946798645
SNP_P4_45262_17843329	NC_021163.1	Ca_kabuli_chr04	17843329	AA	TT	1946798647
SNP_P4_45263_17844242	NC_021163.1	Ca_kabuli_chr04	17844242	TT	CC	1946798649
SNP_P4_45264_17846396	NC_021163.1	Ca_kabuli_chr04	17846396	GG	CC	1946798651
SNP_P4_45265_17846440	NC_021163.1	Ca_kabuli_chr04	17846440	AA	CC	1946798653
SNP_P4_45266_17846786	NC_021163.1	Ca_kabuli_chr04	17846786	GG	AA	1946798655
SNP_P4_45267_17846814	NC_021163.1	Ca_kabuli_chr04	17846814	AA	GG	1946798657
SNP_P4_45268_17846899	NC_021163.1	Ca_kabuli_chr04	17846899	TT	CC	1946798660
SNP_P4_45269_17846994	NC_021163.1	Ca_kabuli_chr04	17846994	CC	TT	1946798662
SNP_P4_45270_17847225	NC_021163.1	Ca_kabuli_chr04	17847225	GG	AA	1946798664
SNP_P4_45271_17847248	NC_021163.1	Ca_kabuli_chr04	17847248	AA	GG	1946798666
SNP_P4_45272_17847553	NC_021163.1	Ca_kabuli_chr04	17847553	CC	TT	1946798668
SNP_P4_45273_17847929	NC_021163.1	Ca_kabuli_chr04	17847929	AA	GG	1946798670
SNP_P4_45274_17848037	NC_021163.1	Ca_kabuli_chr04	17848037	AA	TT	1946798672
SNP_P4_45276_17848729	NC_021163.1	Ca_kabuli_chr04	17848729	AA	CC	1946798674
SNP_P4_45277_17849389	NC_021163.1	Ca_kabuli_chr04	17849389	TT	CC	1946798676
SNP_P4_45279_17850668	NC_021163.1	Ca_kabuli_chr04	17850668	AA	TT	1946798678
SNP_P4_45280_17850701	NC_021163.1	Ca_kabuli_chr04	17850701	TT	CC	1946798680
SNP_P4_45281_17850762	NC_021163.1	Ca_kabuli_chr04	17850762	AA	CC	1946798683
SNP_P4_45282_17850763	NC_021163.1	Ca_kabuli_chr04	17850763	AA	GG	1946798685
SNP_P4_45283_17851311	NC_021163.1	Ca_kabuli_chr04	17851311	CC	TT	1946798687
SNP_P4_45284_17851548	NC_021163.1	Ca_kabuli_chr04	17851548	TT	AA	1946798689
SNP_P4_45285_17851583	NC_021163.1	Ca_kabuli_chr04	17851583	AA	TT	1946798691
SNP_P4_45286_17851839	NC_021163.1	Ca_kabuli_chr04	17851839	TT	AA	1946798693
SNP_P4_45290_17854162	NC_021163.1	Ca_kabuli_chr04	17854162	GG	AA	1946798695
SNP_P4_45291_17854798	NC_021163.1	Ca_kabuli_chr04	17854798	CC	GG	1946798697
SNP_P4_45293_17855686	NC_021163.1	Ca_kabuli_chr04	17855686	AA	GG	1946798700
SNP_P4_45294_17855733	NC_021163.1	Ca_kabuli_chr04	17855733	GG	AA	1946798702
SNP_P4_45295_17855992	NC_021163.1	Ca_kabuli_chr04	17855992	AA	GG	1946798704
SNP_P4_45296_17856190	NC_021163.1	Ca_kabuli_chr04	17856190	AA	GG	1946798707
SNP_P4_45297_17856694	NC_021163.1	Ca_kabuli_chr04	17856694	TT	CC	1946798709
SNP_P4_45298_17857421	NC_021163.1	Ca_kabuli_chr04	17857421	TT	GG	1946798711
SNP_P4_45299_17859847	NC_021163.1	Ca_kabuli_chr04	17859847	GG	AA	1946798713
SNP_P4_45300_17861432	NC_021163.1	Ca_kabuli_chr04	17861432	AA	TT	1946798715

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_45302_17861558	NC_021163.1	Ca_kabuli_chr04	17861558	GG	AA	1946798719
SNP_P4_45303_17861575	NC_021163.1	Ca_kabuli_chr04	17861575	TT	AA	1946798722
SNP_P4_45304_17861579	NC_021163.1	Ca_kabuli_chr04	17861579	AA	TT	1946798724
SNP_P4_45305_17861606	NC_021163.1	Ca_kabuli_chr04	17861606	CC	AA	1946798726
SNP_P4_45306_17862757	NC_021163.1	Ca_kabuli_chr04	17862757	AA	TT	1946798728
SNP_P4_45307_17862762	NC_021163.1	Ca_kabuli_chr04	17862762	AA	CC	1946798730
SNP_P4_45309_17863115	NC_021163.1	Ca_kabuli_chr04	17863115	AA	GG	1946798732
SNP_P4_45310_17863388	NC_021163.1	Ca_kabuli_chr04	17863388	TT	GG	1946798734
SNP_P4_45312_17863925	NC_021163.1	Ca_kabuli_chr04	17863925	GG	AA	1946798736
SNP_P4_45314_17864212	NC_021163.1	Ca_kabuli_chr04	17864212	CC	TT	1946798738
SNP_P4_45316_17864515	NC_021163.1	Ca_kabuli_chr04	17864515	GG	AA	1946798740
SNP_P4_45320_17867909	NC_021163.1	Ca_kabuli_chr04	17867909	AA	GG	1946798742
SNP_P4_45321_17871397	NC_021163.1	Ca_kabuli_chr04	17871397	CC	GG	1946798745
SNP_P4_45322_17872441	NC_021163.1	Ca_kabuli_chr04	17872441	CC	TT	1946798747
SNP_P4_45324_17906200	NC_021163.1	Ca_kabuli_chr04	17906200	CC	TT	1946798749
SNP_P4_45325_17921523	NC_021163.1	Ca_kabuli_chr04	17921523	TT	CC	1946798751
SNP_P4_45326_17933336	NC_021163.1	Ca_kabuli_chr04	17933336	GG	AA	1946798753
SNP_P4_45328_17955592	NC_021163.1	Ca_kabuli_chr04	17955592	TT	CC	1946798755
SNP_P4_45330_17975630	NC_021163.1	Ca_kabuli_chr04	17975630	TT	CC	1946798757
SNP_P4_45332_18033495	NC_021163.1	Ca_kabuli_chr04	18033495	GG	AA	1946798759
SNP_P4_45334_18051262	NC_021163.1	Ca_kabuli_chr04	18051262	AA	GG	1946798761
SNP_P4_45336_18069937	NC_021163.1	Ca_kabuli_chr04	18069937	TT	AA	1946798763
SNP_P4_45337_18069938	NC_021163.1	Ca_kabuli_chr04	18069938	TT	CC	1946798766
SNP_P4_45338_18081472	NC_021163.1	Ca_kabuli_chr04	18081472	CC	TT	1946798768
SNP_P4_45340_18101424	NC_021163.1	Ca_kabuli_chr04	18101424	CC	TT	1946798770
SNP_P4_45341_18106199	NC_021163.1	Ca_kabuli_chr04	18106199	TT	CC	1946798772
SNP_P4_45343_18115782	NC_021163.1	Ca_kabuli_chr04	18115782	GG	AA	1946798774
SNP_P4_45345_18131073	NC_021163.1	Ca_kabuli_chr04	18131073	AA	CC	1946798776
SNP_P4_45346_18131155	NC_021163.1	Ca_kabuli_chr04	18131155	AA	GG	1946798778
SNP_P4_45347_18131201	NC_021163.1	Ca_kabuli_chr04	18131201	TT	GG	1946798780
SNP_P4_45348_18131236	NC_021163.1	Ca_kabuli_chr04	18131236	CC	TT	1946798783
SNP_P4_45349_18131269	NC_021163.1	Ca_kabuli_chr04	18131269	CC	AA	1946798785
SNP_P4_45350_18131283	NC_021163.1	Ca_kabuli_chr04	18131283	TT	CC	1946798787
SNP_P4_45351_18131477	NC_021163.1	Ca_kabuli_chr04	18131477	TT	GG	1946798789
SNP_P4_45352_18131497	NC_021163.1	Ca_kabuli_chr04	18131497	TT	CC	1946798791
SNP_P4_45353_18131553	NC_021163.1	Ca_kabuli_chr04	18131553	AA	GG	1946798793
SNP_P4_45354_18131556	NC_021163.1	Ca_kabuli_chr04	18131556	TT	GG	1946798795
SNP_P4_45355_18131653	NC_021163.1	Ca_kabuli_chr04	18131653	AA	TT	1946798797
SNP_P4_45356_18138022	NC_021163.1	Ca_kabuli_chr04	18138022	TT	AA	1946798799
SNP_P4_45357_18138102	NC_021163.1	Ca_kabuli_chr04	18138102	AA	TT	1946798801
SNP_P4_45358_18138248	NC_021163.1	Ca_kabuli_chr04	18138248	CC	AA	1946798803

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_45360_18138738	NC_021163.1	Ca_kabuli_chr04	18138738	GG	AA	1946798807
SNP_P4_45361_18138758	NC_021163.1	Ca_kabuli_chr04	18138758	AA	GG	1946798809
SNP_P4_45362_18143080	NC_021163.1	Ca_kabuli_chr04	18143080	AA	TT	1946798811
SNP_P4_45364_18148303	NC_021163.1	Ca_kabuli_chr04	18148303	GG	AA	1946798813
SNP_P4_45366_18175078	NC_021163.1	Ca_kabuli_chr04	18175078	CC	TT	1946798815
SNP_P4_45368_18201091	NC_021163.1	Ca_kabuli_chr04	18201091	TT	GG	1946798817
SNP_P4_45369_18201095	NC_021163.1	Ca_kabuli_chr04	18201095	TT	CC	1946798819
SNP_P4_45370_18203331	NC_021163.1	Ca_kabuli_chr04	18203331	TT	CC	1946798821
SNP_P4_45371_18213802	NC_021163.1	Ca_kabuli_chr04	18213802	GG	AA	1946798823
SNP_P4_45372_18248198	NC_021163.1	Ca_kabuli_chr04	18248198	AA	GG	1946798825
SNP_P4_45373_18250851	NC_021163.1	Ca_kabuli_chr04	18250851	AA	GG	1946798827
SNP_P4_45374_18253946	NC_021163.1	Ca_kabuli_chr04	18253946	CC	GG	1946798829
SNP_P4_45375_18262308	NC_021163.1	Ca_kabuli_chr04	18262308	TT	AA	1946798831
SNP_P4_45376_18262376	NC_021163.1	Ca_kabuli_chr04	18262376	AA	GG	1946798833
SNP_P4_45377_18262395	NC_021163.1	Ca_kabuli_chr04	18262395	TT	CC	1946798835
SNP_P4_45378_18263815	NC_021163.1	Ca_kabuli_chr04	18263815	AA	GG	1946798837
SNP_P4_45379_18264022	NC_021163.1	Ca_kabuli_chr04	18264022	TT	CC	1946798839
SNP_P4_45380_18264406	NC_021163.1	Ca_kabuli_chr04	18264406	TT	CC	1946798841
SNP_P4_45381_18264423	NC_021163.1	Ca_kabuli_chr04	18264423	TT	AA	1946798843
SNP_P4_45382_18264520	NC_021163.1	Ca_kabuli_chr04	18264520	AA	GG	1946798845
SNP_P4_45383_18264713	NC_021163.1	Ca_kabuli_chr04	18264713	TT	AA	1946798847
SNP_P4_45384_18264802	NC_021163.1	Ca_kabuli_chr04	18264802	TT	CC	1946798849
SNP_P4_45386_18269171	NC_021163.1	Ca_kabuli_chr04	18269171	TT	CC	1946798850
SNP_P4_45387_18269172	NC_021163.1	Ca_kabuli_chr04	18269172	TT	AA	1946798851
SNP_P4_45388_18269200	NC_021163.1	Ca_kabuli_chr04	18269200	TT	CC	1946798853
SNP_P4_45389_18269277	NC_021163.1	Ca_kabuli_chr04	18269277	TT	GG	1946798855
SNP_P4_45390_18291950	NC_021163.1	Ca_kabuli_chr04	18291950	GG	CC	1946798857
SNP_P4_45391_18295254	NC_021163.1	Ca_kabuli_chr04	18295254	AA	GG	1946798859
SNP_P4_45393_18295473	NC_021163.1	Ca_kabuli_chr04	18295473	CC	TT	1946798861
SNP_P4_45394_18295493	NC_021163.1	Ca_kabuli_chr04	18295493	CC	TT	1946798863
SNP_P4_45395_18295502	NC_021163.1	Ca_kabuli_chr04	18295502	AA	TT	1946798865
SNP_P4_45396_18296461	NC_021163.1	Ca_kabuli_chr04	18296461	AA	CC	1946798867
SNP_P4_45397_18296469	NC_021163.1	Ca_kabuli_chr04	18296469	TT	CC	1946798869
SNP_P4_45398_18296982	NC_021163.1	Ca_kabuli_chr04	18296982	GG	TT	1946798871
SNP_P4_45399_18309654	NC_021163.1	Ca_kabuli_chr04	18309654	GG	TT	1946798873
SNP_P4_45400_18310636	NC_021163.1	Ca_kabuli_chr04	18310636	AA	TT	1946798875
SNP_P4_45401_18310770	NC_021163.1	Ca_kabuli_chr04	18310770	GG	AA	1946798877
SNP_P4_45402_18310792	NC_021163.1	Ca_kabuli_chr04	18310792	TT	AA	1946798879
SNP_P4_45403_18335062	NC_021163.1	Ca_kabuli_chr04	18335062	TT	AA	1946798881
SNP_P4_45404_18335362	NC_021163.1	Ca_kabuli_chr04	18335362	GG	TT	1946798883
SNP_P4_45405_18342783	NC_021163.1	Ca_kabuli_chr04	18342783	AA	TT	1946798885

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_45408_18346502	NC_021163.1	Ca_kabuli_chr04	18346502	AA	GG	1946798891
SNP_P4_45409_18353393	NC_021163.1	Ca_kabuli_chr04	18353393	CC	TT	1946798894
SNP_P4_45410_18369514	NC_021163.1	Ca_kabuli_chr04	18369514	CC	AA	1946798896
SNP_P4_45411_18379966	NC_021163.1	Ca_kabuli_chr04	18379966	GG	TT	1946798898
SNP_P4_45412_18388451	NC_021163.1	Ca_kabuli_chr04	18388451	TT	CC	1946798900
SNP_P4_45413_18388616	NC_021163.1	Ca_kabuli_chr04	18388616	AA	TT	1946798902
SNP_P4_45415_18417523	NC_021163.1	Ca_kabuli_chr04	18417523	TT	CC	1946798904
SNP_P4_45417_18512024	NC_021163.1	Ca_kabuli_chr04	18512024	AA	GG	1946798906
SNP_P4_45418_18513426	NC_021163.1	Ca_kabuli_chr04	18513426	GG	AA	1946798908
SNP_P4_45419_18515433	NC_021163.1	Ca_kabuli_chr04	18515433	TT	AA	1946798910
SNP_P4_45422_18544115	NC_021163.1	Ca_kabuli_chr04	18544115	TT	CC	1946798912
SNP_P4_45424_18554885	NC_021163.1	Ca_kabuli_chr04	18554885	CC	TT	1946798914
SNP_P4_45425_18558588	NC_021163.1	Ca_kabuli_chr04	18558588	GG	AA	1946798916
SNP_P4_45426_18561503	NC_021163.1	Ca_kabuli_chr04	18561503	TT	CC	1946798918
SNP_P4_45427_18588241	NC_021163.1	Ca_kabuli_chr04	18588241	GG	AA	1946798921
SNP_P4_45428_18617386	NC_021163.1	Ca_kabuli_chr04	18617386	CC	AA	1946798923
SNP_P4_45429_18626830	NC_021163.1	Ca_kabuli_chr04	18626830	CC	TT	1946798925
SNP_P4_45430_18646435	NC_021163.1	Ca_kabuli_chr04	18646435	TT	AA	1946798927
SNP_P4_45431_18650251	NC_021163.1	Ca_kabuli_chr04	18650251	TT	CC	1946798930
SNP_P4_45432_18650473	NC_021163.1	Ca_kabuli_chr04	18650473	CC	AA	1946798932
SNP_P4_45434_18651426	NC_021163.1	Ca_kabuli_chr04	18651426	TT	CC	1946798934
SNP_P4_45435_18653012	NC_021163.1	Ca_kabuli_chr04	18653012	CC	TT	1946798936
SNP_P4_45436_18656940	NC_021163.1	Ca_kabuli_chr04	18656940	AA	GG	1946798938
SNP_P4_45437_18673134	NC_021163.1	Ca_kabuli_chr04	18673134	GG	AA	1946798940
SNP_P4_45438_18676428	NC_021163.1	Ca_kabuli_chr04	18676428	TT	GG	1946798942
SNP_P4_45439_18676647	NC_021163.1	Ca_kabuli_chr04	18676647	AA	TT	1946798944
SNP_P4_45440_18676838	NC_021163.1	Ca_kabuli_chr04	18676838	TT	CC	1946798946
SNP_P4_45441_18677131	NC_021163.1	Ca_kabuli_chr04	18677131	TT	CC	1946798948
SNP_P4_45442_18677169	NC_021163.1	Ca_kabuli_chr04	18677169	TT	CC	1946798950
SNP_P4_45443_18677191	NC_021163.1	Ca_kabuli_chr04	18677191	GG	AA	1946798952
SNP_P4_45444_18703967	NC_021163.1	Ca_kabuli_chr04	18703967	TT	CC	1946798954
SNP_P4_45446_18704126	NC_021163.1	Ca_kabuli_chr04	18704126	GG	AA	1946798956
SNP_P4_45447_18704377	NC_021163.1	Ca_kabuli_chr04	18704377	AA	GG	1946798958
SNP_P4_45449_18770235	NC_021163.1	Ca_kabuli_chr04	18770235	CC	TT	1946798960
SNP_P4_45450_18784725	NC_021163.1	Ca_kabuli_chr04	18784725	CC	TT	1946798962
SNP_P4_45451_18795305	NC_021163.1	Ca_kabuli_chr04	18795305	CC	GG	1946798964
SNP_P4_45452_18801138	NC_021163.1	Ca_kabuli_chr04	18801138	TT	GG	1946798966
SNP_P4_45453_18801999	NC_021163.1	Ca_kabuli_chr04	18801999	GG	TT	1946798968
SNP_P4_45454_18809711	NC_021163.1	Ca_kabuli_chr04	18809711	AA	GG	1946798970
SNP_P4_45455_18810121	NC_021163.1	Ca_kabuli_chr04	18810121	GG	AA	1946798972

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_45456_18826320	NC_021163.1	Ca_kabuli_chr04	18826320	AA	TT	1946798975
SNP_P4_45457_18829962	NC_021163.1	Ca_kabuli_chr04	18829962	TT	AA	1946798977
SNP_P4_45458_18836506	NC_021163.1	Ca_kabuli_chr04	18836506	AA	GG	1946798979
SNP_P4_45459_18837011	NC_021163.1	Ca_kabuli_chr04	18837011	AA	GG	1946798981
SNP_P4_45460_18837692	NC_021163.1	Ca_kabuli_chr04	18837692	CC	GG	1946798983
SNP_P4_45461_18837698	NC_021163.1	Ca_kabuli_chr04	18837698	AA	CC	1946798985
SNP_P4_45462_18837714	NC_021163.1	Ca_kabuli_chr04	18837714	CC	GG	1946798987
SNP_P4_45463_18837717	NC_021163.1	Ca_kabuli_chr04	18837717	CC	TT	1946798989
SNP_P4_45464_18837721	NC_021163.1	Ca_kabuli_chr04	18837721	AA	GG	1946798992
SNP_P4_45465_18837745	NC_021163.1	Ca_kabuli_chr04	18837745	TT	CC	1946798994
SNP_P4_45467_18837992	NC_021163.1	Ca_kabuli_chr04	18837992	TT	GG	1946798996
SNP_P4_45468_18864277	NC_021163.1	Ca_kabuli_chr04	18864277	TT	CC	1946798998
SNP_P4_45469_18881507	NC_021163.1	Ca_kabuli_chr04	18881507	AA	TT	1946799000
SNP_P4_45470_18881510	NC_021163.1	Ca_kabuli_chr04	18881510	AA	TT	1946799002
SNP_P4_45471_18881513	NC_021163.1	Ca_kabuli_chr04	18881513	AA	TT	1946799004
SNP_P4_45472_18883631	NC_021163.1	Ca_kabuli_chr04	18883631	TT	CC	1946799006
SNP_P4_45474_18895633	NC_021163.1	Ca_kabuli_chr04	18895633	GG	AA	1946799008
SNP_P4_45475_18901425	NC_021163.1	Ca_kabuli_chr04	18901425	TT	AA	1946799010
SNP_P4_45477_18968693	NC_021163.1	Ca_kabuli_chr04	18968693	TT	CC	1946799012
SNP_P4_45478_18969384	NC_021163.1	Ca_kabuli_chr04	18969384	AA	GG	1946799014
SNP_P4_45479_18970279	NC_021163.1	Ca_kabuli_chr04	18970279	AA	GG	1946799016
SNP_P4_45480_18980315	NC_021163.1	Ca_kabuli_chr04	18980315	TT	AA	1946799018
SNP_P4_45481_18988312	NC_021163.1	Ca_kabuli_chr04	18988312	GG	TT	1946799020
SNP_P4_45482_18991864	NC_021163.1	Ca_kabuli_chr04	18991864	TT	AA	1946799022
SNP_P4_45484_19031279	NC_021163.1	Ca_kabuli_chr04	19031279	CC	TT	1946799025
SNP_P4_45486_19045979	NC_021163.1	Ca_kabuli_chr04	19045979	CC	TT	1946799027
SNP_P4_45487_19046014	NC_021163.1	Ca_kabuli_chr04	19046014	AA	TT	1946799029
SNP_P4_45488_19046122	NC_021163.1	Ca_kabuli_chr04	19046122	AA	CC	1946799031
SNP_P4_45489_19046132	NC_021163.1	Ca_kabuli_chr04	19046132	AA	CC	1946799033
SNP_P4_45490_19046282	NC_021163.1	Ca_kabuli_chr04	19046282	GG	AA	1946799035
SNP_P4_45491_19046288	NC_021163.1	Ca_kabuli_chr04	19046288	TT	GG	1946799037
SNP_P4_45492_19068947	NC_021163.1	Ca_kabuli_chr04	19068947	TT	AA	1946799040
SNP_P4_45494_19082324	NC_021163.1	Ca_kabuli_chr04	19082324	GG	AA	1946799042
SNP_P4_45496_19082756	NC_021163.1	Ca_kabuli_chr04	19082756	CC	TT	1946799044
SNP_P4_45497_19084375	NC_021163.1	Ca_kabuli_chr04	19084375	CC	TT	1946799046
SNP_P4_45498_19084384	NC_021163.1	Ca_kabuli_chr04	19084384	CC	AA	1946799048
SNP_P4_45499_19084562	NC_021163.1	Ca_kabuli_chr04	19084562	TT	CC	1946799050
SNP_P4_45500_19084600	NC_021163.1	Ca_kabuli_chr04	19084600	AA	GG	1946799052
SNP_P4_45501_19084665	NC_021163.1	Ca_kabuli_chr04	19084665	GG	TT	1946799055
SNP_P4_45502_19085050	NC_021163.1	Ca_kabuli_chr04	19085050	AA	GG	1946799057
SNP_P4_45503_19085437	NC_021163.1	Ca_kabuli_chr04	19085437	TT	GG	1946799059
SNP_P4_45504_19085439	NC_021163.1	Ca_kabuli_chr04	19085439	GG	TT	1946799061

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_45505_19085442	NC_021163.1	Ca_kabuli_chr04	19085442	TT	CC	1946799063
SNP_P4_45506_19101844	NC_021163.1	Ca_kabuli_chr04	19101844	GG	TT	1946799065
SNP_P4_45507_19103892	NC_021163.1	Ca_kabuli_chr04	19103892	GG	CC	1946799067
SNP_P4_45508_19110450	NC_021163.1	Ca_kabuli_chr04	19110450	GG	CC	1946799069
SNP_P4_45509_19115935	NC_021163.1	Ca_kabuli_chr04	19115935	CC	GG	1946799071
SNP_P4_45510_19147101	NC_021163.1	Ca_kabuli_chr04	19147101	TT	GG	1946799073
SNP_P4_45512_19163488	NC_021163.1	Ca_kabuli_chr04	19163488	AA	GG	1946799076
SNP_P4_45513_19163510	NC_021163.1	Ca_kabuli_chr04	19163510	TT	CC	1946799078
SNP_P4_45514_19163529	NC_021163.1	Ca_kabuli_chr04	19163529	GG	AA	1946799080
SNP_P4_45515_19164417	NC_021163.1	Ca_kabuli_chr04	19164417	AA	TT	1946799082
SNP_P4_45516_19164800	NC_021163.1	Ca_kabuli_chr04	19164800	GG	AA	1946799084
SNP_P4_45519_19288812	NC_021163.1	Ca_kabuli_chr04	19288812	CC	TT	1946799086
SNP_P4_45520_19296688	NC_021163.1	Ca_kabuli_chr04	19296688	AA	TT	1946799089
SNP_P4_45521_19296691	NC_021163.1	Ca_kabuli_chr04	19296691	AA	CC	1946799091
SNP_P4_45522_19303443	NC_021163.1	Ca_kabuli_chr04	19303443	TT	CC	1946799093
SNP_P4_45523_19303445	NC_021163.1	Ca_kabuli_chr04	19303445	TT	CC	1946799095
SNP_P4_45524_19335273	NC_021163.1	Ca_kabuli_chr04	19335273	CC	TT	1946799097
SNP_P4_45525_19335275	NC_021163.1	Ca_kabuli_chr04	19335275	CC	TT	1946799099
SNP_P4_45526_19335647	NC_021163.1	Ca_kabuli_chr04	19335647	CC	TT	1946799101
SNP_P4_45527_19337504	NC_021163.1	Ca_kabuli_chr04	19337504	CC	AA	1946799103
SNP_P4_45528_19341573	NC_021163.1	Ca_kabuli_chr04	19341573	TT	AA	1946799105
SNP_P4_45530_19342420	NC_021163.1	Ca_kabuli_chr04	19342420	GG	AA	1946799107
SNP_P4_45531_19342455	NC_021163.1	Ca_kabuli_chr04	19342455	TT	CC	1946799109
SNP_P4_45532_19342490	NC_021163.1	Ca_kabuli_chr04	19342490	AA	TT	1946799111
SNP_P4_45533_19363990	NC_021163.1	Ca_kabuli_chr04	19363990	TT	CC	1946799113
SNP_P4_45534_19368213	NC_021163.1	Ca_kabuli_chr04	19368213	TT	GG	1946799115
SNP_P4_45535_19368217	NC_021163.1	Ca_kabuli_chr04	19368217	TT	GG	1946799117
SNP_P4_45536_19368222	NC_021163.1	Ca_kabuli_chr04	19368222	TT	GG	1946799119
SNP_P4_45539_19397350	NC_021163.1	Ca_kabuli_chr04	19397350	AA	TT	1946799122
SNP_P4_45540_19397407	NC_021163.1	Ca_kabuli_chr04	19397407	CC	TT	1946799124
SNP_P4_45542_19400448	NC_021163.1	Ca_kabuli_chr04	19400448	TT	CC	1946799126
SNP_P4_45544_19423717	NC_021163.1	Ca_kabuli_chr04	19423717	GG	AA	1946799128
SNP_P4_45545_19445892	NC_021163.1	Ca_kabuli_chr04	19445892	AA	GG	1946799131
SNP_P4_45547_19445972	NC_021163.1	Ca_kabuli_chr04	19445972	TT	GG	1946799133
SNP_P4_45548_19446025	NC_021163.1	Ca_kabuli_chr04	19446025	AA	CC	1946799136
SNP_P4_45549_19446052	NC_021163.1	Ca_kabuli_chr04	19446052	AA	GG	1946799138
SNP_P4_45550_19446068	NC_021163.1	Ca_kabuli_chr04	19446068	CC	AA	1946799140
SNP_P4_45551_19446108	NC_021163.1	Ca_kabuli_chr04	19446108	AA	GG	1946799142
SNP_P4_45552_19446272	NC_021163.1	Ca_kabuli_chr04	19446272	AA	GG	1946799144
SNP_P4_45553_19446307	NC_021163.1	Ca_kabuli_chr04	19446307	TT	CC	1946799147
SNP_P4_45554_19446481	NC_021163.1	Ca_kabuli_chr04	19446481	AA	CC	1946799149
SNP_P4_45555_19455032	NC_021163.1	Ca_kabuli_chr04	19455032	AA	GG	1946799151

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_45556_19462258	NC_021163.1	Ca_kabuli_chr04	19462258	CC	TT	1946799154
SNP_P4_45557_19473885	NC_021163.1	Ca_kabuli_chr04	19473885	TT	CC	1946799156
SNP_P4_45558_19517367	NC_021163.1	Ca_kabuli_chr04	19517367	TT	GG	1946799158
SNP_P4_45559_19517423	NC_021163.1	Ca_kabuli_chr04	19517423	TT	CC	1946799160
SNP_P4_45560_19535442	NC_021163.1	Ca_kabuli_chr04	19535442	GG	AA	1946799163
SNP_P4_45561_19562083	NC_021163.1	Ca_kabuli_chr04	19562083	TT	CC	1946799165
SNP_P4_45562_19563608	NC_021163.1	Ca_kabuli_chr04	19563608	AA	CC	1946799168
SNP_P4_45563_19570779	NC_021163.1	Ca_kabuli_chr04	19570779	AA	GG	1946799171
SNP_P4_45564_19570781	NC_021163.1	Ca_kabuli_chr04	19570781	GG	AA	1946799173
SNP_P4_45565_19577135	NC_021163.1	Ca_kabuli_chr04	19577135	CC	TT	1946799175
SNP_P4_45566_19607593	NC_021163.1	Ca_kabuli_chr04	19607593	AA	GG	1946799177
SNP_P4_45567_19623514	NC_021163.1	Ca_kabuli_chr04	19623514	TT	CC	1946799179
SNP_P4_45568_19629611	NC_021163.1	Ca_kabuli_chr04	19629611	AA	TT	1946799181
SNP_P4_45569_19640894	NC_021163.1	Ca_kabuli_chr04	19640894	GG	CC	1946799183
SNP_P4_45570_19643120	NC_021163.1	Ca_kabuli_chr04	19643120	AA	GG	1946799186
SNP_P4_45572_19644612	NC_021163.1	Ca_kabuli_chr04	19644612	GG	TT	1946799188
SNP_P4_45573_19649039	NC_021163.1	Ca_kabuli_chr04	19649039	GG	AA	1946799190
SNP_P4_45574_19675297	NC_021163.1	Ca_kabuli_chr04	19675297	GG	AA	1946799192
SNP_P4_45577_19692033	NC_021163.1	Ca_kabuli_chr04	19692033	GG	TT	1946799195
SNP_P4_45578_19700385	NC_021163.1	Ca_kabuli_chr04	19700385	AA	GG	1946799197
SNP_P4_45581_19783679	NC_021163.1	Ca_kabuli_chr04	19783679	CC	GG	1946799199
SNP_P4_45582_19783682	NC_021163.1	Ca_kabuli_chr04	19783682	GG	AA	1946799201
SNP_P4_45583_19783692	NC_021163.1	Ca_kabuli_chr04	19783692	TT	AA	1946799204
SNP_P4_45584_19783701	NC_021163.1	Ca_kabuli_chr04	19783701	GG	TT	1946799206
SNP_P4_45585_19783702	NC_021163.1	Ca_kabuli_chr04	19783702	CC	AA	1946799208
SNP_P4_45586_19783715	NC_021163.1	Ca_kabuli_chr04	19783715	TT	CC	1946799210
SNP_P4_45587_19783870	NC_021163.1	Ca_kabuli_chr04	19783870	AA	GG	1946799212
SNP_P4_45588_19783925	NC_021163.1	Ca_kabuli_chr04	19783925	AA	GG	1946799215
SNP_P4_45589_19783987	NC_021163.1	Ca_kabuli_chr04	19783987	AA	TT	1946799217
SNP_P4_45590_19784143	NC_021163.1	Ca_kabuli_chr04	19784143	GG	TT	1946799219
SNP_P4_45592_19789350	NC_021163.1	Ca_kabuli_chr04	19789350	CC	TT	1946799221
SNP_P4_45593_19805342	NC_021163.1	Ca_kabuli_chr04	19805342	GG	CC	1946799223
SNP_P4_45594_19825308	NC_021163.1	Ca_kabuli_chr04	19825308	TT	AA	1946799225
SNP_P4_45595_19856643	NC_021163.1	Ca_kabuli_chr04	19856643	AA	GG	1946799228
SNP_P4_45596_19878638	NC_021163.1	Ca_kabuli_chr04	19878638	CC	TT	1946799230
SNP_P4_45598_19954515	NC_021163.1	Ca_kabuli_chr04	19954515	TT	CC	1946799232
SNP_P4_45599_19955288	NC_021163.1	Ca_kabuli_chr04	19955288	CC	TT	1946799234
SNP_P4_45601_19960546	NC_021163.1	Ca_kabuli_chr04	19960546	GG	AA	1946799236
SNP_P4_45602_19968479	NC_021163.1	Ca_kabuli_chr04	19968479	GG	TT	1946799238
SNP_P4_45603_19968833	NC_021163.1	Ca_kabuli_chr04	19968833	AA	CC	1946799240
SNP_P4_45604_19968887	NC_021163.1	Ca_kabuli_chr04	19968887	AA	CC	1946799243
SNP_P4_45605_19968897	NC_021163.1	Ca_kabuli_chr04	19968897	GG	AA	1946799245

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_45606_19968923	NC_021163.1	Ca_kabuli_chr04	19968923	CC	TT	1946799247
SNP_P4_45607_19997350	NC_021163.1	Ca_kabuli_chr04	19997350	TT	AA	1946799249
SNP_P4_45608_20014434	NC_021163.1	Ca_kabuli_chr04	20014434	AA	CC	1946799251
SNP_P4_45609_20030872	NC_021163.1	Ca_kabuli_chr04	20030872	CC	TT	1946799254
SNP_P4_45610_20035345	NC_021163.1	Ca_kabuli_chr04	20035345	CC	TT	1946799256
SNP_P4_45611_20038251	NC_021163.1	Ca_kabuli_chr04	20038251	CC	TT	1946799258
SNP_P4_45612_20045646	NC_021163.1	Ca_kabuli_chr04	20045646	CC	TT	1946799260
SNP_P4_45614_20057471	NC_021163.1	Ca_kabuli_chr04	20057471	TT	GG	1946799262
SNP_P4_45616_20068535	NC_021163.1	Ca_kabuli_chr04	20068535	CC	AA	1946799264
SNP_P4_45617_20072254	NC_021163.1	Ca_kabuli_chr04	20072254	GG	CC	1946799266
SNP_P4_45618_20072432	NC_021163.1	Ca_kabuli_chr04	20072432	AA	GG	1946799269
SNP_P4_45619_20075633	NC_021163.1	Ca_kabuli_chr04	20075633	TT	CC	1946799271
SNP_P4_45620_20087647	NC_021163.1	Ca_kabuli_chr04	20087647	GG	TT	1946799273
SNP_P4_45621_20088239	NC_021163.1	Ca_kabuli_chr04	20088239	TT	CC	1946799275
SNP_P4_45622_20091187	NC_021163.1	Ca_kabuli_chr04	20091187	TT	GG	1946799277
SNP_P4_45623_20091714	NC_021163.1	Ca_kabuli_chr04	20091714	TT	GG	1946799279
SNP_P4_45624_20097143	NC_021163.1	Ca_kabuli_chr04	20097143	AA	GG	1946799281
SNP_P4_45625_20097455	NC_021163.1	Ca_kabuli_chr04	20097455	AA	GG	1946799284
SNP_P4_45627_20110427	NC_021163.1	Ca_kabuli_chr04	20110427	GG	AA	1946799286
SNP_P4_45628_20110471	NC_021163.1	Ca_kabuli_chr04	20110471	AA	CC	1946799288
SNP_P4_45629_20110860	NC_021163.1	Ca_kabuli_chr04	20110860	AA	GG	1946799290
SNP_P4_45630_20110882	NC_021163.1	Ca_kabuli_chr04	20110882	TT	GG	1946799292
SNP_P4_45631_20111975	NC_021163.1	Ca_kabuli_chr04	20111975	TT	CC	1946799294
SNP_P4_45632_20112198	NC_021163.1	Ca_kabuli_chr04	20112198	AA	GG	1946799296
SNP_P4_45633_20115726	NC_021163.1	Ca_kabuli_chr04	20115726	GG	AA	1946799298
SNP_P4_45634_20130608	NC_021163.1	Ca_kabuli_chr04	20130608	AA	GG	1946799300
SNP_P4_45635_20131214	NC_021163.1	Ca_kabuli_chr04	20131214	TT	CC	1946799302
SNP_P4_45637_20134802	NC_021163.1	Ca_kabuli_chr04	20134802	CC	TT	1946799305
SNP_P4_45638_20140190	NC_021163.1	Ca_kabuli_chr04	20140190	CC	TT	1946799307
SNP_P4_45639_20141072	NC_021163.1	Ca_kabuli_chr04	20141072	AA	TT	1946799309
SNP_P4_45640_20141075	NC_021163.1	Ca_kabuli_chr04	20141075	TT	GG	1946799311
SNP_P4_45641_20145697	NC_021163.1	Ca_kabuli_chr04	20145697	AA	TT	1946799313
SNP_P4_45642_20145788	NC_021163.1	Ca_kabuli_chr04	20145788	TT	CC	1946799315
SNP_P4_45643_20145797	NC_021163.1	Ca_kabuli_chr04	20145797	TT	CC	1946799318
SNP_P4_45644_20147541	NC_021163.1	Ca_kabuli_chr04	20147541	AA	GG	1946799320
SNP_P4_45645_20148341	NC_021163.1	Ca_kabuli_chr04	20148341	TT	GG	1946799322
SNP_P4_45646_20156678	NC_021163.1	Ca_kabuli_chr04	20156678	AA	CC	1946799324
SNP_P4_45647_20156684	NC_021163.1	Ca_kabuli_chr04	20156684	GG	CC	1946799326
SNP_P4_45650_20208155	NC_021163.1	Ca_kabuli_chr04	20208155	GG	AA	1946799329
SNP_P4_45651_20211303	NC_021163.1	Ca_kabuli_chr04	20211303	AA	GG	1946799331
SNP_P4_45652_20212198	NC_021163.1	Ca_kabuli_chr04	20212198	GG	AA	1946799333
SNP_P4_45653_20213398	NC_021163.1	Ca_kabuli_chr04	20213398	AA	GG	1946799335

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_45655_20233667	NC_021163.1	Ca_kabuli_chr04	20233667	TT	GG	1946799338
SNP_P4_45656_20264515	NC_021163.1	Ca_kabuli_chr04	20264515	TT	CC	1946799340
SNP_P4_45657_20266495	NC_021163.1	Ca_kabuli_chr04	20266495	AA	GG	1946799342
SNP_P4_45658_20266508	NC_021163.1	Ca_kabuli_chr04	20266508	AA	CC	1946799344
SNP_P4_45659_20266540	NC_021163.1	Ca_kabuli_chr04	20266540	CC	TT	1946799346
SNP_P4_45660_20266651	NC_021163.1	Ca_kabuli_chr04	20266651	GG	AA	1946799348
SNP_P4_45661_20266670	NC_021163.1	Ca_kabuli_chr04	20266670	TT	CC	1946799350
SNP_P4_45662_20266684	NC_021163.1	Ca_kabuli_chr04	20266684	CC	AA	1946799352
SNP_P4_45663_20266805	NC_021163.1	Ca_kabuli_chr04	20266805	TT	CC	1946799354
SNP_P4_45664_20271633	NC_021163.1	Ca_kabuli_chr04	20271633	CC	TT	1946799356
SNP_P4_45665_20296627	NC_021163.1	Ca_kabuli_chr04	20296627	AA	TT	1946799359
SNP_P4_45666_20317928	NC_021163.1	Ca_kabuli_chr04	20317928	TT	CC	1946799361
SNP_P4_45667_20322386	NC_021163.1	Ca_kabuli_chr04	20322386	GG	CC	1946799363
SNP_P4_45669_20333868	NC_021163.1	Ca_kabuli_chr04	20333868	AA	TT	1946799365
SNP_P4_45670_20340525	NC_021163.1	Ca_kabuli_chr04	20340525	TT	GG	1946799367
SNP_P4_45672_20349134	NC_021163.1	Ca_kabuli_chr04	20349134	GG	CC	1946799369
SNP_P4_45673_20353814	NC_021163.1	Ca_kabuli_chr04	20353814	GG	AA	1946799371
SNP_P4_45675_20408050	NC_021163.1	Ca_kabuli_chr04	20408050	CC	TT	1946799373
SNP_P4_45677_20455141	NC_021163.1	Ca_kabuli_chr04	20455141	GG	TT	1946799375
SNP_P4_45678_20489152	NC_021163.1	Ca_kabuli_chr04	20489152	GG	AA	1946799377
SNP_P4_45681_20509551	NC_021163.1	Ca_kabuli_chr04	20509551	TT	GG	1946799380
SNP_P4_45682_20539785	NC_021163.1	Ca_kabuli_chr04	20539785	AA	GG	1946799382
SNP_P4_45684_20540455	NC_021163.1	Ca_kabuli_chr04	20540455	TT	CC	1946799384
SNP_P4_45685_20540466	NC_021163.1	Ca_kabuli_chr04	20540466	CC	TT	1946799386
SNP_P4_45686_20540589	NC_021163.1	Ca_kabuli_chr04	20540589	GG	AA	1946799388
SNP_P4_45687_20540610	NC_021163.1	Ca_kabuli_chr04	20540610	CC	TT	1946799390
SNP_P4_45688_20544330	NC_021163.1	Ca_kabuli_chr04	20544330	TT	AA	1946799392
SNP_P4_45689_20605481	NC_021163.1	Ca_kabuli_chr04	20605481	AA	CC	1946799394
SNP_P4_45690_20608810	NC_021163.1	Ca_kabuli_chr04	20608810	CC	AA	1946799396
SNP_P4_45692_20625629	NC_021163.1	Ca_kabuli_chr04	20625629	CC	TT	1946799398
SNP_P4_45693_20650666	NC_021163.1	Ca_kabuli_chr04	20650666	TT	AA	1946799400
SNP_P4_45694_20682147	NC_021163.1	Ca_kabuli_chr04	20682147	GG	AA	1946799402
SNP_P4_45696_20713134	NC_021163.1	Ca_kabuli_chr04	20713134	CC	AA	1946799404
SNP_P4_45697_20729418	NC_021163.1	Ca_kabuli_chr04	20729418	CC	TT	1946799406
SNP_P4_45698_20732739	NC_021163.1	Ca_kabuli_chr04	20732739	CC	TT	1946799408
SNP_P4_45699_20733116	NC_021163.1	Ca_kabuli_chr04	20733116	AA	GG	1946799410
SNP_P4_45700_20733123	NC_021163.1	Ca_kabuli_chr04	20733123	TT	AA	1946799412
SNP_P4_45702_20738472	NC_021163.1	Ca_kabuli_chr04	20738472	AA	GG	1946799414
SNP_P4_45703_20738499	NC_021163.1	Ca_kabuli_chr04	20738499	AA	GG	1946799416
SNP_P4_45704_20738517	NC_021163.1	Ca_kabuli_chr04	20738517	TT	GG	1946799418
SNP_P4_45705_20738526	NC_021163.1	Ca_kabuli_chr04	20738526	GG	AA	1946799420
SNP_P4_45708_20798490	NC_021163.1	Ca_kabuli_chr04	20798490	AA	GG	1946799422

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_45710_20798814	NC_021163.1	Ca_kabuli_chr04	20798814	GG	TT	1946799427
SNP_P4_45712_20798875	NC_021163.1	Ca_kabuli_chr04	20798875	CC	AA	1946799429
SNP_P4_45713_20798885	NC_021163.1	Ca_kabuli_chr04	20798885	AA	TT	1946799431
SNP_P4_45714_20798892	NC_021163.1	Ca_kabuli_chr04	20798892	TT	CC	1946799433
SNP_P4_45715_20804936	NC_021163.1	Ca_kabuli_chr04	20804936	GG	AA	1946799435
SNP_P4_45716_20811082	NC_021163.1	Ca_kabuli_chr04	20811082	TT	CC	1946799437
SNP_P4_45717_20811410	NC_021163.1	Ca_kabuli_chr04	20811410	AA	CC	1946799439
SNP_P4_45718_20811451	NC_021163.1	Ca_kabuli_chr04	20811451	GG	AA	1946799441
SNP_P4_45719_20819593	NC_021163.1	Ca_kabuli_chr04	20819593	GG	CC	1946799443
SNP_P4_45720_20819595	NC_021163.1	Ca_kabuli_chr04	20819595	GG	AA	1946799445
SNP_P4_45721_20819639	NC_021163.1	Ca_kabuli_chr04	20819639	TT	GG	1946799447
SNP_P4_45722_20819651	NC_021163.1	Ca_kabuli_chr04	20819651	TT	AA	1946799449
SNP_P4_45723_20819655	NC_021163.1	Ca_kabuli_chr04	20819655	AA	GG	1946799451
SNP_P4_45724_20819656	NC_021163.1	Ca_kabuli_chr04	20819656	GG	AA	1946799453
SNP_P4_45725_20819671	NC_021163.1	Ca_kabuli_chr04	20819671	GG	AA	1946799455
SNP_P4_45726_20819686	NC_021163.1	Ca_kabuli_chr04	20819686	AA	GG	1946799457
SNP_P4_45727_20819755	NC_021163.1	Ca_kabuli_chr04	20819755	TT	CC	1946799459
SNP_P4_45728_20819763	NC_021163.1	Ca_kabuli_chr04	20819763	AA	GG	1946799461
SNP_P4_45729_20819803	NC_021163.1	Ca_kabuli_chr04	20819803	AA	CC	1946799463
SNP_P4_45730_20819806	NC_021163.1	Ca_kabuli_chr04	20819806	CC	TT	1946799465
SNP_P4_45731_20819839	NC_021163.1	Ca_kabuli_chr04	20819839	AA	CC	1946799467
SNP_P4_45732_20819913	NC_021163.1	Ca_kabuli_chr04	20819913	TT	GG	1946799469
SNP_P4_45733_20819925	NC_021163.1	Ca_kabuli_chr04	20819925	AA	GG	1946799472
SNP_P4_45734_20820085	NC_021163.1	Ca_kabuli_chr04	20820085	GG	TT	1946799474
SNP_P4_45735_20820629	NC_021163.1	Ca_kabuli_chr04	20820629	TT	CC	1946799476
SNP_P4_45736_20829920	NC_021163.1	Ca_kabuli_chr04	20829920	CC	GG	1946799478
SNP_P4_45737_20829928	NC_021163.1	Ca_kabuli_chr04	20829928	TT	AA	1946799480
SNP_P4_45738_20830163	NC_021163.1	Ca_kabuli_chr04	20830163	TT	AA	1946799482
SNP_P4_45739_20830228	NC_021163.1	Ca_kabuli_chr04	20830228	GG	TT	1946799484
SNP_P4_45740_20830263	NC_021163.1	Ca_kabuli_chr04	20830263	TT	CC	1946799486
SNP_P4_45741_20830597	NC_021163.1	Ca_kabuli_chr04	20830597	GG	TT	1946799488
SNP_P4_45742_20851006	NC_021163.1	Ca_kabuli_chr04	20851006	AA	GG	1946799490
SNP_P4_45744_20884565	NC_021163.1	Ca_kabuli_chr04	20884565	TT	AA	1946799492
SNP_P4_45746_20910567	NC_021163.1	Ca_kabuli_chr04	20910567	CC	TT	1946799494
SNP_P4_45747_20918233	NC_021163.1	Ca_kabuli_chr04	20918233	AA	GG	1946799496
SNP_P4_45749_20928529	NC_021163.1	Ca_kabuli_chr04	20928529	GG	TT	1946799498
SNP_P4_45752_20969639	NC_021163.1	Ca_kabuli_chr04	20969639	TT	GG	1946799500
SNP_P4_45753_20997743	NC_021163.1	Ca_kabuli_chr04	20997743	GG	CC	1946799502
SNP_P4_45754_20997946	NC_021163.1	Ca_kabuli_chr04	20997946	CC	AA	1946799505
SNP_P4_45755_20997961	NC_021163.1	Ca_kabuli_chr04	20997961	CC	GG	1946799507
SNP_P4_45756_20997965	NC_021163.1	Ca_kabuli_chr04	20997965	TT	GG	1946799509

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_45758_20998741	NC_021163.1	Ca_kabuli_chr04	20998741	CC	TT	1946799513
SNP_P4_45759_21002004	NC_021163.1	Ca_kabuli_chr04	21002004	TT	CC	1946799515
SNP_P4_45760_21006316	NC_021163.1	Ca_kabuli_chr04	21006316	AA	CC	1946799517
SNP_P4_45761_21033938	NC_021163.1	Ca_kabuli_chr04	21033938	CC	TT	1946799519
SNP_P4_45762_21043607	NC_021163.1	Ca_kabuli_chr04	21043607	AA	GG	1946799521
SNP_P4_45763_21063343	NC_021163.1	Ca_kabuli_chr04	21063343	TT	CC	1946799523
SNP_P4_45764_21063349	NC_021163.1	Ca_kabuli_chr04	21063349	TT	GG	1946799525
SNP_P4_45765_21063361	NC_021163.1	Ca_kabuli_chr04	21063361	TT	GG	1946799528
SNP_P4_45766_21063381	NC_021163.1	Ca_kabuli_chr04	21063381	GG	AA	1946799530
SNP_P4_45767_21063392	NC_021163.1	Ca_kabuli_chr04	21063392	TT	CC	1946799532
SNP_P4_45768_21063413	NC_021163.1	Ca_kabuli_chr04	21063413	CC	TT	1946799534
SNP_P4_45769_21063552	NC_021163.1	Ca_kabuli_chr04	21063552	TT	CC	1946799536
SNP_P4_45770_21063560	NC_021163.1	Ca_kabuli_chr04	21063560	AA	CC	1946799538
SNP_P4_45771_21067645	NC_021163.1	Ca_kabuli_chr04	21067645	TT	CC	1946799540
SNP_P4_45772_21067977	NC_021163.1	Ca_kabuli_chr04	21067977	CC	TT	1946799542
SNP_P4_45773_21067983	NC_021163.1	Ca_kabuli_chr04	21067983	AA	CC	1946799544
SNP_P4_45774_21068024	NC_021163.1	Ca_kabuli_chr04	21068024	CC	TT	1946799547
SNP_P4_45775_21068054	NC_021163.1	Ca_kabuli_chr04	21068054	AA	GG	1946799549
SNP_P4_45776_21068705	NC_021163.1	Ca_kabuli_chr04	21068705	AA	GG	1946799551
SNP_P4_45777_21070092	NC_021163.1	Ca_kabuli_chr04	21070092	TT	AA	1946799553
SNP_P4_45778_21070755	NC_021163.1	Ca_kabuli_chr04	21070755	CC	TT	1946799556
SNP_P4_45779_21071758	NC_021163.1	Ca_kabuli_chr04	21071758	TT	AA	1946799558
SNP_P4_45780_21082586	NC_021163.1	Ca_kabuli_chr04	21082586	AA	TT	1946799560
SNP_P4_45781_21082588	NC_021163.1	Ca_kabuli_chr04	21082588	TT	AA	1946799562
SNP_P4_45783_21105903	NC_021163.1	Ca_kabuli_chr04	21105903	GG	AA	1946799564
SNP_P4_45784_21106641	NC_021163.1	Ca_kabuli_chr04	21106641	GG	TT	1946799566
SNP_P4_45785_21106662	NC_021163.1	Ca_kabuli_chr04	21106662	GG	AA	1946799569
SNP_P4_45786_21125560	NC_021163.1	Ca_kabuli_chr04	21125560	GG	AA	1946799571
SNP_P4_45787_21125684	NC_021163.1	Ca_kabuli_chr04	21125684	AA	CC	1946799573
SNP_P4_45788_21160946	NC_021163.1	Ca_kabuli_chr04	21160946	AA	GG	1946799575
SNP_P4_45790_21160967	NC_021163.1	Ca_kabuli_chr04	21160967	AA	GG	1946799577
SNP_P4_45791_21161001	NC_021163.1	Ca_kabuli_chr04	21161001	CC	TT	1946799579
SNP_P4_45792_21161025	NC_021163.1	Ca_kabuli_chr04	21161025	AA	GG	1946799581
SNP_P4_45793_21175052	NC_021163.1	Ca_kabuli_chr04	21175052	TT	CC	1946799583
SNP_P4_45795_21175364	NC_021163.1	Ca_kabuli_chr04	21175364	GG	AA	1946799585
SNP_P4_45796_21183326	NC_021163.1	Ca_kabuli_chr04	21183326	AA	GG	1946799587
SNP_P4_45797_21183341	NC_021163.1	Ca_kabuli_chr04	21183341	GG	AA	1946799590
SNP_P4_45798_21183347	NC_021163.1	Ca_kabuli_chr04	21183347	AA	GG	1946799592
SNP_P4_45800_21229628	NC_021163.1	Ca_kabuli_chr04	21229628	CC	AA	1946799594
SNP_P4_45801_21229669	NC_021163.1	Ca_kabuli_chr04	21229669	AA	TT	1946799596
SNP_P4_45802_21229753	NC_021163.1	Ca_kabuli_chr04	21229753	GG	CC	1946799598

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_45803_21229861	NC_021163.1	Ca_kabuli_chr04	21229861	AA	CC	1946799600
SNP_P4_45804_21229884	NC_021163.1	Ca_kabuli_chr04	21229884	TT	CC	1946799602
SNP_P4_45805_21229968	NC_021163.1	Ca_kabuli_chr04	21229968	GG	TT	1946799604
SNP_P4_45807_21231328	NC_021163.1	Ca_kabuli_chr04	21231328	AA	GG	1946799606
SNP_P4_45808_21231353	NC_021163.1	Ca_kabuli_chr04	21231353	CC	TT	1946799608
SNP_P4_45809_21231441	NC_021163.1	Ca_kabuli_chr04	21231441	GG	CC	1946799610
SNP_P4_45810_21231506	NC_021163.1	Ca_kabuli_chr04	21231506	TT	CC	1946799612
SNP_P4_45811_21231550	NC_021163.1	Ca_kabuli_chr04	21231550	TT	GG	1946799614
SNP_P4_45812_21231591	NC_021163.1	Ca_kabuli_chr04	21231591	AA	GG	1946799616
SNP_P4_45813_21231601	NC_021163.1	Ca_kabuli_chr04	21231601	TT	CC	1946799618
SNP_P4_45814_21234316	NC_021163.1	Ca_kabuli_chr04	21234316	AA	GG	1946799620
SNP_P4_45815_21234709	NC_021163.1	Ca_kabuli_chr04	21234709	TT	GG	1946799622
SNP_P4_45816_21235377	NC_021163.1	Ca_kabuli_chr04	21235377	AA	GG	1946799624
SNP_P4_45817_21239758	NC_021163.1	Ca_kabuli_chr04	21239758	AA	GG	1946799627
SNP_P4_45818_21240167	NC_021163.1	Ca_kabuli_chr04	21240167	AA	TT	1946799629
SNP_P4_45819_21240207	NC_021163.1	Ca_kabuli_chr04	21240207	TT	AA	1946799631
SNP_P4_45820_21243203	NC_021163.1	Ca_kabuli_chr04	21243203	AA	CC	1946799633
SNP_P4_45821_21243734	NC_021163.1	Ca_kabuli_chr04	21243734	GG	AA	1946799635
SNP_P4_45822_21244355	NC_021163.1	Ca_kabuli_chr04	21244355	GG	AA	1946799637
SNP_P4_45823_21244632	NC_021163.1	Ca_kabuli_chr04	21244632	AA	TT	1946799639
SNP_P4_45825_21260220	NC_021163.1	Ca_kabuli_chr04	21260220	GG	AA	1946799641
SNP_P4_45826_21261668	NC_021163.1	Ca_kabuli_chr04	21261668	TT	CC	1946799643
SNP_P4_45828_21318127	NC_021163.1	Ca_kabuli_chr04	21318127	AA	GG	1946799645
SNP_P4_45829_21318138	NC_021163.1	Ca_kabuli_chr04	21318138	CC	AA	1946799647
SNP_P4_45830_21323825	NC_021163.1	Ca_kabuli_chr04	21323825	AA	TT	1946799649
SNP_P4_45831_21346316	NC_021163.1	Ca_kabuli_chr04	21346316	AA	TT	1946799652
SNP_P4_45832_21347292	NC_021163.1	Ca_kabuli_chr04	21347292	AA	GG	1946799654
SNP_P4_45833_21347293	NC_021163.1	Ca_kabuli_chr04	21347293	AA	CC	1946799656
SNP_P4_45834_21347515	NC_021163.1	Ca_kabuli_chr04	21347515	TT	AA	1946799658
SNP_P4_45835_21347905	NC_021163.1	Ca_kabuli_chr04	21347905	CC	AA	1946799660
SNP_P4_45836_21355823	NC_021163.1	Ca_kabuli_chr04	21355823	AA	TT	1946799662
SNP_P4_45837_21357886	NC_021163.1	Ca_kabuli_chr04	21357886	TT	CC	1946799664
SNP_P4_45838_21375338	NC_021163.1	Ca_kabuli_chr04	21375338	AA	CC	1946799666
SNP_P4_45839_21375339	NC_021163.1	Ca_kabuli_chr04	21375339	TT	AA	1946799668
SNP_P4_45840_21381041	NC_021163.1	Ca_kabuli_chr04	21381041	TT	GG	1946799670
SNP_P4_45841_21384314	NC_021163.1	Ca_kabuli_chr04	21384314	CC	TT	1946799672
SNP_P4_45842_21400931	NC_021163.1	Ca_kabuli_chr04	21400931	CC	TT	1946799674
SNP_P4_45843_21405032	NC_021163.1	Ca_kabuli_chr04	21405032	TT	CC	1946799676
SNP_P4_45844_21420982	NC_021163.1	Ca_kabuli_chr04	21420982	CC	TT	1946799678
SNP_P4_45845_21463462	NC_021163.1	Ca_kabuli_chr04	21463462	TT	CC	1946799680
SNP_P4_45846_21498763	NC_021163.1	Ca_kabuli_chr04	21498763	AA	CC	1946799682
SNP_P4_45847_21511779	NC_021163.1	Ca_kabuli_chr04	21511779	TT	GG	1946799684

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_45848_21511820	NC_021163.1	Ca_kabuli_chr04	21511820	AA	GG	1946799686
SNP_P4_45849_21511869	NC_021163.1	Ca_kabuli_chr04	21511869	CC	TT	1946799688
SNP_P4_45850_21511904	NC_021163.1	Ca_kabuli_chr04	21511904	GG	TT	1946799690
SNP_P4_45851_21514458	NC_021163.1	Ca_kabuli_chr04	21514458	AA	TT	1946799692
SNP_P4_45852_21520119	NC_021163.1	Ca_kabuli_chr04	21520119	CC	AA	1946799694
SNP_P4_45853_21520128	NC_021163.1	Ca_kabuli_chr04	21520128	GG	AA	1946799696
SNP_P4_45854_21520282	NC_021163.1	Ca_kabuli_chr04	21520282	AA	GG	1946799698
SNP_P4_45855_21520323	NC_021163.1	Ca_kabuli_chr04	21520323	CC	AA	1946799700
SNP_P4_45856_21520325	NC_021163.1	Ca_kabuli_chr04	21520325	AA	TT	1946799702
SNP_P4_45857_21528970	NC_021163.1	Ca_kabuli_chr04	21528970	CC	AA	1946799704
SNP_P4_45858_21528972	NC_021163.1	Ca_kabuli_chr04	21528972	TT	AA	1946799706
SNP_P4_45859_21528973	NC_021163.1	Ca_kabuli_chr04	21528973	AA	TT	1946799708
SNP_P4_45860_21529154	NC_021163.1	Ca_kabuli_chr04	21529154	CC	TT	1946799710
SNP_P4_45862_21529200	NC_021163.1	Ca_kabuli_chr04	21529200	GG	AA	1946799712
SNP_P4_45864_21529508	NC_021163.1	Ca_kabuli_chr04	21529508	GG	TT	1946799714
SNP_P4_45865_21544129	NC_021163.1	Ca_kabuli_chr04	21544129	GG	CC	1946799716
SNP_P4_45866_21569919	NC_021163.1	Ca_kabuli_chr04	21569919	TT	GG	1946799718
SNP_P4_45867_21569945	NC_021163.1	Ca_kabuli_chr04	21569945	TT	AA	1946799720
SNP_P4_45868_21570243	NC_021163.1	Ca_kabuli_chr04	21570243	AA	GG	1946799722
SNP_P4_45869_21570311	NC_021163.1	Ca_kabuli_chr04	21570311	CC	TT	1946799724
SNP_P4_45870_21571058	NC_021163.1	Ca_kabuli_chr04	21571058	AA	GG	1946799726
SNP_P4_45871_21578362	NC_021163.1	Ca_kabuli_chr04	21578362	CC	TT	1946799728
SNP_P4_45872_21599885	NC_021163.1	Ca_kabuli_chr04	21599885	AA	GG	1946799730
SNP_P4_45873_21601596	NC_021163.1	Ca_kabuli_chr04	21601596	AA	GG	1946799732
SNP_P4_45874_21601795	NC_021163.1	Ca_kabuli_chr04	21601795	CC	TT	1946799734
SNP_P4_45875_21601812	NC_021163.1	Ca_kabuli_chr04	21601812	TT	AA	1946799736
SNP_P4_45876_21601824	NC_021163.1	Ca_kabuli_chr04	21601824	AA	TT	1946799737
SNP_P4_45877_21601835	NC_021163.1	Ca_kabuli_chr04	21601835	CC	TT	1946799738
SNP_P4_45878_21601868	NC_021163.1	Ca_kabuli_chr04	21601868	TT	CC	1946799740
SNP_P4_45879_21601908	NC_021163.1	Ca_kabuli_chr04	21601908	TT	AA	1946799742
SNP_P4_45880_21602279	NC_021163.1	Ca_kabuli_chr04	21602279	AA	CC	1946799744
SNP_P4_45881_21607300	NC_021163.1	Ca_kabuli_chr04	21607300	TT	CC	1946799746
SNP_P4_45882_21607368	NC_021163.1	Ca_kabuli_chr04	21607368	GG	TT	1946799748
SNP_P4_45883_21607768	NC_021163.1	Ca_kabuli_chr04	21607768	TT	GG	1946799750
SNP_P4_45884_21607788	NC_021163.1	Ca_kabuli_chr04	21607788	TT	CC	1946799752
SNP_P4_45885_21607903	NC_021163.1	Ca_kabuli_chr04	21607903	GG	AA	1946799754
SNP_P4_45886_21609261	NC_021163.1	Ca_kabuli_chr04	21609261	TT	AA	1946799756
SNP_P4_45887_21622187	NC_021163.1	Ca_kabuli_chr04	21622187	TT	CC	1946799758
SNP_P4_45889_21622641	NC_021163.1	Ca_kabuli_chr04	21622641	AA	GG	1946799760
SNP_P4_45890_21625751	NC_021163.1	Ca_kabuli_chr04	21625751	GG	AA	1946799762
SNP_P4_45891_21638479	NC_021163.1	Ca_kabuli_chr04	21638479	CC	TT	1946799764
SNP_P4_45892_21638686	NC_021163.1	Ca_kabuli_chr04	21638686	GG	AA	1946799766

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_45895_21645233	NC_021163.1	Ca_kabuli_chr04	21645233	AA	GG	1946799770
SNP_P4_45897_21660697	NC_021163.1	Ca_kabuli_chr04	21660697	CC	TT	1946799772
SNP_P4_45898_21684038	NC_021163.1	Ca_kabuli_chr04	21684038	AA	CC	1946799774
SNP_P4_45899_21684093	NC_021163.1	Ca_kabuli_chr04	21684093	TT	AA	1946799776
SNP_P4_45900_21684347	NC_021163.1	Ca_kabuli_chr04	21684347	TT	AA	1946799778
SNP_P4_45901_21684736	NC_021163.1	Ca_kabuli_chr04	21684736	CC	TT	1946799780
SNP_P4_45902_21690361	NC_021163.1	Ca_kabuli_chr04	21690361	CC	TT	1946799782
SNP_P4_45903_21690616	NC_021163.1	Ca_kabuli_chr04	21690616	CC	AA	1946799784
SNP_P4_45904_21690748	NC_021163.1	Ca_kabuli_chr04	21690748	AA	GG	1946799786
SNP_P4_45905_21691033	NC_021163.1	Ca_kabuli_chr04	21691033	CC	TT	1946799788
SNP_P4_45906_21691060	NC_021163.1	Ca_kabuli_chr04	21691060	CC	TT	1946799790
SNP_P4_45907_21691100	NC_021163.1	Ca_kabuli_chr04	21691100	AA	GG	1946799792
SNP_P4_45908_21692584	NC_021163.1	Ca_kabuli_chr04	21692584	CC	TT	1946799794
SNP_P4_45909_21693494	NC_021163.1	Ca_kabuli_chr04	21693494	GG	TT	1946799796
SNP_P4_45911_21726908	NC_021163.1	Ca_kabuli_chr04	21726908	AA	TT	1946799798
SNP_P4_45913_21729033	NC_021163.1	Ca_kabuli_chr04	21729033	AA	GG	1946799800
SNP_P4_45914_21729050	NC_021163.1	Ca_kabuli_chr04	21729050	AA	TT	1946799802
SNP_P4_45915_21731646	NC_021163.1	Ca_kabuli_chr04	21731646	TT	CC	1946799804
SNP_P4_45916_21731811	NC_021163.1	Ca_kabuli_chr04	21731811	GG	CC	1946799807
SNP_P4_45917_21745318	NC_021163.1	Ca_kabuli_chr04	21745318	TT	CC	1946799809
SNP_P4_45918_21745371	NC_021163.1	Ca_kabuli_chr04	21745371	GG	AA	1946799811
SNP_P4_45919_21767445	NC_021163.1	Ca_kabuli_chr04	21767445	TT	CC	1946799813
SNP_P4_45920_21767447	NC_021163.1	Ca_kabuli_chr04	21767447	AA	GG	1946799815
SNP_P4_45922_21790467	NC_021163.1	Ca_kabuli_chr04	21790467	CC	TT	1946799817
SNP_P4_45923_21793090	NC_021163.1	Ca_kabuli_chr04	21793090	GG	CC	1946799819
SNP_P4_45924_21804619	NC_021163.1	Ca_kabuli_chr04	21804619	GG	AA	1946799821
SNP_P4_45925_21804742	NC_021163.1	Ca_kabuli_chr04	21804742	AA	GG	1946799823
SNP_P4_45927_21804788	NC_021163.1	Ca_kabuli_chr04	21804788	TT	GG	1946799825
SNP_P4_45928_21804812	NC_021163.1	Ca_kabuli_chr04	21804812	AA	GG	1946799827
SNP_P4_45929_21804822	NC_021163.1	Ca_kabuli_chr04	21804822	GG	AA	1946799829
SNP_P4_45931_21839323	NC_021163.1	Ca_kabuli_chr04	21839323	GG	AA	1946799831
SNP_P4_45932_21848587	NC_021163.1	Ca_kabuli_chr04	21848587	CC	TT	1946799833
SNP_P4_45933_21848597	NC_021163.1	Ca_kabuli_chr04	21848597	TT	CC	1946799835
SNP_P4_45934_21848991	NC_021163.1	Ca_kabuli_chr04	21848991	GG	AA	1946799837
SNP_P4_45936_21849031	NC_021163.1	Ca_kabuli_chr04	21849031	AA	GG	1946799839
SNP_P4_45937_21849050	NC_021163.1	Ca_kabuli_chr04	21849050	AA	CC	1946799841
SNP_P4_45938_21849246	NC_021163.1	Ca_kabuli_chr04	21849246	GG	AA	1946799843
SNP_P4_45939_21849255	NC_021163.1	Ca_kabuli_chr04	21849255	GG	TT	1946799845
SNP_P4_45940_21849282	NC_021163.1	Ca_kabuli_chr04	21849282	CC	GG	1946799847
SNP_P4_45941_21849320	NC_021163.1	Ca_kabuli_chr04	21849320	TT	CC	1946799849
SNP_P4_45942_21849528	NC_021163.1	Ca_kabuli_chr04	21849528	GG	AA	1946799851

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_45944_21865111	NC_021163.1	Ca_kabuli_chr04	21865111	CC	AA	1946799855
SNP_P4_45945_21865692	NC_021163.1	Ca_kabuli_chr04	21865692	GG	AA	1946799857
SNP_P4_45946_21894234	NC_021163.1	Ca_kabuli_chr04	21894234	CC	TT	1946799859
SNP_P4_45947_21904215	NC_021163.1	Ca_kabuli_chr04	21904215	GG	TT	1946799861
SNP_P4_45948_21905563	NC_021163.1	Ca_kabuli_chr04	21905563	CC	TT	1946799863
SNP_P4_45949_21909717	NC_021163.1	Ca_kabuli_chr04	21909717	CC	TT	1946799865
SNP_P4_45950_21915039	NC_021163.1	Ca_kabuli_chr04	21915039	GG	AA	1946799867
SNP_P4_45952_21928816	NC_021163.1	Ca_kabuli_chr04	21928816	GG	AA	1946799869
SNP_P4_45954_21936764	NC_021163.1	Ca_kabuli_chr04	21936764	GG	TT	1946799871
SNP_P4_45955_21936785	NC_021163.1	Ca_kabuli_chr04	21936785	CC	TT	1946799873
SNP_P4_45956_21936801	NC_021163.1	Ca_kabuli_chr04	21936801	AA	TT	1946799875
SNP_P4_45957_21946535	NC_021163.1	Ca_kabuli_chr04	21946535	TT	GG	1946799877
SNP_P4_45958_21946672	NC_021163.1	Ca_kabuli_chr04	21946672	GG	AA	1946799879
SNP_P4_45959_21958840	NC_021163.1	Ca_kabuli_chr04	21958840	AA	TT	1946799881
SNP_P4_45960_21958915	NC_021163.1	Ca_kabuli_chr04	21958915	GG	TT	1946799883
SNP_P4_45961_21958918	NC_021163.1	Ca_kabuli_chr04	21958918	TT	GG	1946799885
SNP_P4_45963_21992596	NC_021163.1	Ca_kabuli_chr04	21992596	CC	AA	1946799887
SNP_P4_45964_21996554	NC_021163.1	Ca_kabuli_chr04	21996554	GG	AA	1946799889
SNP_P4_45965_22052591	NC_021163.1	Ca_kabuli_chr04	22052591	TT	GG	1946799891
SNP_P4_45967_22052628	NC_021163.1	Ca_kabuli_chr04	22052628	TT	AA	1946799893
SNP_P4_45968_22052881	NC_021163.1	Ca_kabuli_chr04	22052881	GG	AA	1946799895
SNP_P4_45969_22052910	NC_021163.1	Ca_kabuli_chr04	22052910	AA	TT	1946799897
SNP_P4_45971_22067286	NC_021163.1	Ca_kabuli_chr04	22067286	CC	TT	1946799899
SNP_P4_45972_22071228	NC_021163.1	Ca_kabuli_chr04	22071228	CC	AA	1946799901
SNP_P4_45973_22075712	NC_021163.1	Ca_kabuli_chr04	22075712	AA	TT	1946799903
SNP_P4_45974_22089471	NC_021163.1	Ca_kabuli_chr04	22089471	AA	GG	1946799906
SNP_P4_45975_22092886	NC_021163.1	Ca_kabuli_chr04	22092886	GG	AA	1946799908
SNP_P4_45976_22115061	NC_021163.1	Ca_kabuli_chr04	22115061	AA	GG	1946799910
SNP_P4_45977_22134669	NC_021163.1	Ca_kabuli_chr04	22134669	AA	TT	1946799912
SNP_P4_45978_22134969	NC_021163.1	Ca_kabuli_chr04	22134969	GG	CC	1946799914
SNP_P4_45980_22135016	NC_021163.1	Ca_kabuli_chr04	22135016	TT	GG	1946799916
SNP_P4_45981_22135023	NC_021163.1	Ca_kabuli_chr04	22135023	AA	CC	1946799918
SNP_P4_45982_22135052	NC_021163.1	Ca_kabuli_chr04	22135052	TT	CC	1946799920
SNP_P4_45983_22135108	NC_021163.1	Ca_kabuli_chr04	22135108	AA	TT	1946799922
SNP_P4_45984_22135118	NC_021163.1	Ca_kabuli_chr04	22135118	CC	AA	1946799924
SNP_P4_45985_22135290	NC_021163.1	Ca_kabuli_chr04	22135290	CC	TT	1946799926
SNP_P4_45986_22135296	NC_021163.1	Ca_kabuli_chr04	22135296	TT	CC	1946799928
SNP_P4_45987_22135299	NC_021163.1	Ca_kabuli_chr04	22135299	CC	TT	1946799930
SNP_P4_45988_22135326	NC_021163.1	Ca_kabuli_chr04	22135326	CC	AA	1946799932
SNP_P4_45989_22135389	NC_021163.1	Ca_kabuli_chr04	22135389	GG	AA	1946799934
SNP_P4_45990_22135393	NC_021163.1	Ca_kabuli_chr04	22135393	CC	AA	1946799936

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_45992_22135409	NC_021163.1	Ca_kabuli_chr04	22135409	TT	CC	1946799940
SNP_P4_45993_22135439	NC_021163.1	Ca_kabuli_chr04	22135439	AA	GG	1946799942
SNP_P4_45994_22135451	NC_021163.1	Ca_kabuli_chr04	22135451	CC	TT	1946799944
SNP_P4_45995_22135485	NC_021163.1	Ca_kabuli_chr04	22135485	GG	CC	1946799946
SNP_P4_45996_22135519	NC_021163.1	Ca_kabuli_chr04	22135519	GG	AA	1946799948
SNP_P4_45997_22135523	NC_021163.1	Ca_kabuli_chr04	22135523	AA	TT	1946799950
SNP_P4_45998_22135542	NC_021163.1	Ca_kabuli_chr04	22135542	AA	CC	1946799952
SNP_P4_45999_22135556	NC_021163.1	Ca_kabuli_chr04	22135556	TT	CC	1946799954
SNP_P4_46000_22135622	NC_021163.1	Ca_kabuli_chr04	22135622	TT	AA	1946799956
SNP_P4_46001_22135690	NC_021163.1	Ca_kabuli_chr04	22135690	AA	GG	1946799958
SNP_P4_46002_22135714	NC_021163.1	Ca_kabuli_chr04	22135714	GG	AA	1946799960
SNP_P4_46003_22135718	NC_021163.1	Ca_kabuli_chr04	22135718	GG	TT	1946799962
SNP_P4_46004_22135724	NC_021163.1	Ca_kabuli_chr04	22135724	CC	AA	1946799964
SNP_P4_46005_22135737	NC_021163.1	Ca_kabuli_chr04	22135737	GG	TT	1946799966
SNP_P4_46006_22135746	NC_021163.1	Ca_kabuli_chr04	22135746	AA	GG	1946799968
SNP_P4_46007_22135751	NC_021163.1	Ca_kabuli_chr04	22135751	GG	CC	1946799970
SNP_P4_46008_22135754	NC_021163.1	Ca_kabuli_chr04	22135754	AA	CC	1946799972
SNP_P4_46009_22135756	NC_021163.1	Ca_kabuli_chr04	22135756	CC	AA	1946799974
SNP_P4_46010_22135765	NC_021163.1	Ca_kabuli_chr04	22135765	CC	AA	1946799976
SNP_P4_46011_22135774	NC_021163.1	Ca_kabuli_chr04	22135774	GG	AA	1946799978
SNP_P4_46012_22135787	NC_021163.1	Ca_kabuli_chr04	22135787	GG	AA	1946799980
SNP_P4_46013_22135788	NC_021163.1	Ca_kabuli_chr04	22135788	TT	CC	1946799982
SNP_P4_46014_22135818	NC_021163.1	Ca_kabuli_chr04	22135818	CC	TT	1946799984
SNP_P4_46015_22135886	NC_021163.1	Ca_kabuli_chr04	22135886	AA	CC	1946799986
SNP_P4_46016_22135901	NC_021163.1	Ca_kabuli_chr04	22135901	TT	CC	1946799988
SNP_P4_46017_22135922	NC_021163.1	Ca_kabuli_chr04	22135922	CC	AA	1946799990
SNP_P4_46018_22135932	NC_021163.1	Ca_kabuli_chr04	22135932	GG	CC	1946799992
SNP_P4_46019_22135973	NC_021163.1	Ca_kabuli_chr04	22135973	AA	TT	1946799994
SNP_P4_46020_22135999	NC_021163.1	Ca_kabuli_chr04	22135999	AA	GG	1946799996
SNP_P4_46021_22136020	NC_021163.1	Ca_kabuli_chr04	22136020	GG	AA	1946799998
SNP_P4_46022_22136088	NC_021163.1	Ca_kabuli_chr04	22136088	GG	TT	1946800000
SNP_P4_46023_22136125	NC_021163.1	Ca_kabuli_chr04	22136125	TT	AA	1946800002
SNP_P4_46024_22136128	NC_021163.1	Ca_kabuli_chr04	22136128	GG	AA	1946800004
SNP_P4_46025_22136129	NC_021163.1	Ca_kabuli_chr04	22136129	AA	TT	1946800006
SNP_P4_46026_22136281	NC_021163.1	Ca_kabuli_chr04	22136281	AA	GG	1946800008
SNP_P4_46027_22136283	NC_021163.1	Ca_kabuli_chr04	22136283	TT	CC	1946800010
SNP_P4_46028_22136289	NC_021163.1	Ca_kabuli_chr04	22136289	AA	CC	1946800012
SNP_P4_46029_22136525	NC_021163.1	Ca_kabuli_chr04	22136525	TT	CC	1946800014
SNP_P4_46030_22136898	NC_021163.1	Ca_kabuli_chr04	22136898	AA	GG	1946800016
SNP_P4_46031_22137399	NC_021163.1	Ca_kabuli_chr04	22137399	AA	GG	1946800018
SNP_P4_46032_22138121	NC_021163.1	Ca_kabuli_chr04	22138121	CC	AA	1946800020

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_46035_22156895	NC_021163.1	Ca_kabuli_chr04	22156895	TT	AA	1946800026
SNP_P4_46036_22171457	NC_021163.1	Ca_kabuli_chr04	22171457	TT	CC	1946800028
SNP_P4_46037_22181083	NC_021163.1	Ca_kabuli_chr04	22181083	AA	CC	1946800030
SNP_P4_46038_22191794	NC_021163.1	Ca_kabuli_chr04	22191794	CC	TT	1946800032
SNP_P4_46039_22206101	NC_021163.1	Ca_kabuli_chr04	22206101	TT	AA	1946800034
SNP_P4_46040_22206105	NC_021163.1	Ca_kabuli_chr04	22206105	GG	AA	1946800036
SNP_P4_46042_22241508	NC_021163.1	Ca_kabuli_chr04	22241508	AA	GG	1946800038
SNP_P4_46043_22255791	NC_021163.1	Ca_kabuli_chr04	22255791	TT	GG	1946800040
SNP_P4_46044_22256308	NC_021163.1	Ca_kabuli_chr04	22256308	TT	AA	1946800042
SNP_P4_46045_22279450	NC_021163.1	Ca_kabuli_chr04	22279450	TT	GG	1946800044
SNP_P4_46048_22338587	NC_021163.1	Ca_kabuli_chr04	22338587	GG	AA	1946800046
SNP_P4_46049_22352264	NC_021163.1	Ca_kabuli_chr04	22352264	AA	CC	1946800048
SNP_P4_46050_22369526	NC_021163.1	Ca_kabuli_chr04	22369526	AA	GG	1946800050
SNP_P4_46052_22412124	NC_021163.1	Ca_kabuli_chr04	22412124	AA	GG	1946800052
SNP_P4_46053_22412185	NC_021163.1	Ca_kabuli_chr04	22412185	GG	AA	1946800054
SNP_P4_46054_22412201	NC_021163.1	Ca_kabuli_chr04	22412201	TT	CC	1946800056
SNP_P4_46055_22412216	NC_021163.1	Ca_kabuli_chr04	22412216	AA	GG	1946800058
SNP_P4_46056_22412220	NC_021163.1	Ca_kabuli_chr04	22412220	TT	CC	1946800060
SNP_P4_46057_22441575	NC_021163.1	Ca_kabuli_chr04	22441575	GG	AA	1946800062
SNP_P4_46058_22441743	NC_021163.1	Ca_kabuli_chr04	22441743	GG	AA	1946800064
SNP_P4_46060_22443925	NC_021163.1	Ca_kabuli_chr04	22443925	TT	CC	1946800066
SNP_P4_46061_22444004	NC_021163.1	Ca_kabuli_chr04	22444004	CC	TT	1946800068
SNP_P4_46062_22444241	NC_021163.1	Ca_kabuli_chr04	22444241	GG	AA	1946800070
SNP_P4_46063_22444694	NC_021163.1	Ca_kabuli_chr04	22444694	CC	TT	1946800072
SNP_P4_46065_22472751	NC_021163.1	Ca_kabuli_chr04	22472751	AA	CC	1946800074
SNP_P4_46066_22476632	NC_021163.1	Ca_kabuli_chr04	22476632	TT	GG	1946800076
SNP_P4_46067_22476833	NC_021163.1	Ca_kabuli_chr04	22476833	GG	AA	1946800078
SNP_P4_46068_22483553	NC_021163.1	Ca_kabuli_chr04	22483553	TT	CC	1946800080
SNP_P4_46069_22483695	NC_021163.1	Ca_kabuli_chr04	22483695	CC	TT	1946800082
SNP_P4_46070_22483854	NC_021163.1	Ca_kabuli_chr04	22483854	AA	GG	1946800084
SNP_P4_46071_22483941	NC_021163.1	Ca_kabuli_chr04	22483941	TT	CC	1946800086
SNP_P4_46072_22484203	NC_021163.1	Ca_kabuli_chr04	22484203	CC	TT	1946800088
SNP_P4_46073_22484236	NC_021163.1	Ca_kabuli_chr04	22484236	TT	GG	1946800090
SNP_P4_46074_22521172	NC_021163.1	Ca_kabuli_chr04	22521172	GG	TT	1946800092
SNP_P4_46077_22548674	NC_021163.1	Ca_kabuli_chr04	22548674	GG	AA	1946800094
SNP_P4_46078_22570264	NC_021163.1	Ca_kabuli_chr04	22570264	TT	CC	1946800097
SNP_P4_46079_22570384	NC_021163.1	Ca_kabuli_chr04	22570384	TT	CC	1946800099
SNP_P4_46080_22570443	NC_021163.1	Ca_kabuli_chr04	22570443	TT	CC	1946800101
SNP_P4_46081_22570496	NC_021163.1	Ca_kabuli_chr04	22570496	AA	GG	1946800103
SNP_P4_46082_22570989	NC_021163.1	Ca_kabuli_chr04	22570989	AA	GG	1946800105

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_46084_22601338	NC_021163.1	Ca_kabuli_chr04	22601338	TT	AA	1946800107
SNP_P4_46085_22601350	NC_021163.1	Ca_kabuli_chr04	22601350	AA	TT	1946800109
SNP_P4_46086_22601429	NC_021163.1	Ca_kabuli_chr04	22601429	AA	CC	1946800111
SNP_P4_46087_22601657	NC_021163.1	Ca_kabuli_chr04	22601657	TT	GG	1946800114
SNP_P4_46089_22608737	NC_021163.1	Ca_kabuli_chr04	22608737	GG	CC	1946800116
SNP_P4_46090_22609155	NC_021163.1	Ca_kabuli_chr04	22609155	AA	GG	1946800118
SNP_P4_46091_22618011	NC_021163.1	Ca_kabuli_chr04	22618011	TT	GG	1946800120
SNP_P4_46092_22618309	NC_021163.1	Ca_kabuli_chr04	22618309	TT	CC	1946800122
SNP_P4_46097_22656027	NC_021163.1	Ca_kabuli_chr04	22656027	GG	AA	1946800124
SNP_P4_46098_22660147	NC_021163.1	Ca_kabuli_chr04	22660147	GG	TT	1946800126
SNP_P4_46099_22660180	NC_021163.1	Ca_kabuli_chr04	22660180	TT	GG	1946800128
SNP_P4_46100_22660254	NC_021163.1	Ca_kabuli_chr04	22660254	CC	AA	1946800130
SNP_P4_46101_22660408	NC_021163.1	Ca_kabuli_chr04	22660408	CC	GG	1946800132
SNP_P4_46102_22662063	NC_021163.1	Ca_kabuli_chr04	22662063	AA	CC	1946800134
SNP_P4_46103_22662082	NC_021163.1	Ca_kabuli_chr04	22662082	TT	CC	1946800136
SNP_P4_46105_22664477	NC_021163.1	Ca_kabuli_chr04	22664477	AA	TT	1946800138
SNP_P4_46106_22664503	NC_021163.1	Ca_kabuli_chr04	22664503	AA	TT	1946800140
SNP_P4_46107_22664540	NC_021163.1	Ca_kabuli_chr04	22664540	GG	AA	1946800142
SNP_P4_46108_22664610	NC_021163.1	Ca_kabuli_chr04	22664610	TT	AA	1946800144
SNP_P4_46109_22664611	NC_021163.1	Ca_kabuli_chr04	22664611	AA	TT	1946800146
SNP_P4_46110_22664612	NC_021163.1	Ca_kabuli_chr04	22664612	AA	GG	1946800148
SNP_P4_46111_22664626	NC_021163.1	Ca_kabuli_chr04	22664626	AA	TT	1946800150
SNP_P4_46112_22664748	NC_021163.1	Ca_kabuli_chr04	22664748	CC	AA	1946800152
SNP_P4_46113_22664759	NC_021163.1	Ca_kabuli_chr04	22664759	GG	AA	1946800154
SNP_P4_46114_22664777	NC_021163.1	Ca_kabuli_chr04	22664777	AA	GG	1946800156
SNP_P4_46115_22664808	NC_021163.1	Ca_kabuli_chr04	22664808	AA	CC	1946800158
SNP_P4_46116_22664810	NC_021163.1	Ca_kabuli_chr04	22664810	TT	AA	1946800160
SNP_P4_46118_22664892	NC_021163.1	Ca_kabuli_chr04	22664892	CC	AA	1946800162
SNP_P4_46119_22664921	NC_021163.1	Ca_kabuli_chr04	22664921	GG	TT	1946800164
SNP_P4_46120_22665239	NC_021163.1	Ca_kabuli_chr04	22665239	CC	AA	1946800166
SNP_P4_46121_22665591	NC_021163.1	Ca_kabuli_chr04	22665591	CC	AA	1946800168
SNP_P4_46122_22666511	NC_021163.1	Ca_kabuli_chr04	22666511	TT	AA	1946800170
SNP_P4_46123_22667019	NC_021163.1	Ca_kabuli_chr04	22667019	CC	AA	1946800172
SNP_P4_46124_22667965	NC_021163.1	Ca_kabuli_chr04	22667965	AA	TT	1946800174
SNP_P4_46125_22668226	NC_021163.1	Ca_kabuli_chr04	22668226	TT	CC	1946800177
SNP_P4_46127_22668710	NC_021163.1	Ca_kabuli_chr04	22668710	CC	AA	1946800179
SNP_P4_46128_22668975	NC_021163.1	Ca_kabuli_chr04	22668975	CC	AA	1946800181
SNP_P4_46129_22670294	NC_021163.1	Ca_kabuli_chr04	22670294	CC	TT	1946800183
SNP_P4_46130_22670387	NC_021163.1	Ca_kabuli_chr04	22670387	CC	TT	1946800185
SNP_P4_46131_22670410	NC_021163.1	Ca_kabuli_chr04	22670410	GG	TT	1946800187
SNP_P4_46132_22670445	NC_021163.1	Ca_kabuli_chr04	22670445	GG	CC	1946800189
SNP_P4_46133_22670532	NC_021163.1	Ca_kabuli_chr04	22670532	CC	AA	1946800191

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_46135_22670921	NC_021163.1	Ca_kabuli_chr04	22670921	AA	CC	1946800195
SNP_P4_46136_22671309	NC_021163.1	Ca_kabuli_chr04	22671309	CC	TT	1946800197
SNP_P4_46137_22671373	NC_021163.1	Ca_kabuli_chr04	22671373	AA	GG	1946800199
SNP_P4_46138_22671416	NC_021163.1	Ca_kabuli_chr04	22671416	TT	GG	1946800201
SNP_P4_46139_22671682	NC_021163.1	Ca_kabuli_chr04	22671682	AA	GG	1946800203
SNP_P4_46140_22671730	NC_021163.1	Ca_kabuli_chr04	22671730	AA	GG	1946800205
SNP_P4_46141_22672412	NC_021163.1	Ca_kabuli_chr04	22672412	TT	AA	1946800207
SNP_P4_46142_22672623	NC_021163.1	Ca_kabuli_chr04	22672623	GG	CC	1946800209
SNP_P4_46143_22672669	NC_021163.1	Ca_kabuli_chr04	22672669	CC	GG	1946800211
SNP_P4_46144_22675868	NC_021163.1	Ca_kabuli_chr04	22675868	TT	CC	1946800213
SNP_P4_46145_22676018	NC_021163.1	Ca_kabuli_chr04	22676018	TT	AA	1946800215
SNP_P4_46146_22676697	NC_021163.1	Ca_kabuli_chr04	22676697	TT	GG	1946800217
SNP_P4_46147_22676874	NC_021163.1	Ca_kabuli_chr04	22676874	CC	TT	1946800219
SNP_P4_46148_22676920	NC_021163.1	Ca_kabuli_chr04	22676920	GG	AA	1946800221
SNP_P4_46149_22677518	NC_021163.1	Ca_kabuli_chr04	22677518	CC	TT	1946800223
SNP_P4_46150_22677802	NC_021163.1	Ca_kabuli_chr04	22677802	CC	TT	1946800225
SNP_P4_46152_22678149	NC_021163.1	Ca_kabuli_chr04	22678149	CC	TT	1946800227
SNP_P4_46153_22678183	NC_021163.1	Ca_kabuli_chr04	22678183	GG	AA	1946800229
SNP_P4_46154_22678528	NC_021163.1	Ca_kabuli_chr04	22678528	AA	GG	1946800231
SNP_P4_46155_22678823	NC_021163.1	Ca_kabuli_chr04	22678823	AA	GG	1946800233
SNP_P4_46156_22679414	NC_021163.1	Ca_kabuli_chr04	22679414	TT	AA	1946800235
SNP_P4_46157_22679887	NC_021163.1	Ca_kabuli_chr04	22679887	TT	CC	1946800237
SNP_P4_46158_22680257	NC_021163.1	Ca_kabuli_chr04	22680257	GG	TT	1946800239
SNP_P4_46159_22680270	NC_021163.1	Ca_kabuli_chr04	22680270	AA	GG	1946800241
SNP_P4_46160_22686672	NC_021163.1	Ca_kabuli_chr04	22686672	TT	CC	1946800243
SNP_P4_46161_22686673	NC_021163.1	Ca_kabuli_chr04	22686673	GG	AA	1946800245
SNP_P4_46162_22686686	NC_021163.1	Ca_kabuli_chr04	22686686	AA	TT	1946800247
SNP_P4_46163_22686844	NC_021163.1	Ca_kabuli_chr04	22686844	GG	AA	1946800249
SNP_P4_46164_22686893	NC_021163.1	Ca_kabuli_chr04	22686893	AA	GG	1946800251
SNP_P4_46165_22695403	NC_021163.1	Ca_kabuli_chr04	22695403	TT	CC	1946800253
SNP_P4_46166_22696689	NC_021163.1	Ca_kabuli_chr04	22696689	CC	TT	1946800255
SNP_P4_46167_22696690	NC_021163.1	Ca_kabuli_chr04	22696690	TT	GG	1946800257
SNP_P4_46168_22696790	NC_021163.1	Ca_kabuli_chr04	22696790	GG	TT	1946800259
SNP_P4_46169_22697015	NC_021163.1	Ca_kabuli_chr04	22697015	CC	AA	1946800261
SNP_P4_46170_22697029	NC_021163.1	Ca_kabuli_chr04	22697029	AA	TT	1946800263
SNP_P4_46171_22697042	NC_021163.1	Ca_kabuli_chr04	22697042	AA	GG	1946800265
SNP_P4_46172_22697554	NC_021163.1	Ca_kabuli_chr04	22697554	AA	GG	1946800267
SNP_P4_46173_22698002	NC_021163.1	Ca_kabuli_chr04	22698002	CC	TT	1946800269
SNP_P4_46174_22698006	NC_021163.1	Ca_kabuli_chr04	22698006	TT	CC	1946800271
SNP_P4_46175_22698167	NC_021163.1	Ca_kabuli_chr04	22698167	TT	CC	1946800273
SNP_P4_46176_22698172	NC_021163.1	Ca_kabuli_chr04	22698172	TT	CC	1946800275

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_46178_22699611	NC_021163.1	Ca_kabuli_chr04	22699611	AA	CC	1946800279
SNP_P4_46179_22699651	NC_021163.1	Ca_kabuli_chr04	22699651	CC	TT	1946800280
SNP_P4_46180_22699771	NC_021163.1	Ca_kabuli_chr04	22699771	TT	CC	1946800282
SNP_P4_46181_22700678	NC_021163.1	Ca_kabuli_chr04	22700678	AA	GG	1946800284
SNP_P4_46182_22700686	NC_021163.1	Ca_kabuli_chr04	22700686	TT	AA	1946800286
SNP_P4_46183_22700692	NC_021163.1	Ca_kabuli_chr04	22700692	TT	AA	1946800288
SNP_P4_46184_22700839	NC_021163.1	Ca_kabuli_chr04	22700839	GG	AA	1946800290
SNP_P4_46185_22700850	NC_021163.1	Ca_kabuli_chr04	22700850	TT	CC	1946800292
SNP_P4_46186_22703496	NC_021163.1	Ca_kabuli_chr04	22703496	CC	TT	1946800294
SNP_P4_46187_22703847	NC_021163.1	Ca_kabuli_chr04	22703847	AA	TT	1946800297
SNP_P4_46188_22704061	NC_021163.1	Ca_kabuli_chr04	22704061	AA	TT	1946800299
SNP_P4_46189_22704087	NC_021163.1	Ca_kabuli_chr04	22704087	CC	TT	1946800301
SNP_P4_46190_22704323	NC_021163.1	Ca_kabuli_chr04	22704323	TT	CC	1946800303
SNP_P4_46191_22704991	NC_021163.1	Ca_kabuli_chr04	22704991	AA	TT	1946800305
SNP_P4_46192_22705190	NC_021163.1	Ca_kabuli_chr04	22705190	AA	GG	1946800307
SNP_P4_46194_22707882	NC_021163.1	Ca_kabuli_chr04	22707882	GG	AA	1946800309
SNP_P4_46195_22711938	NC_021163.1	Ca_kabuli_chr04	22711938	GG	AA	1946800311
SNP_P4_46196_22718282	NC_021163.1	Ca_kabuli_chr04	22718282	CC	AA	1946800313
SNP_P4_46197_22718633	NC_021163.1	Ca_kabuli_chr04	22718633	CC	TT	1946800315
SNP_P4_46198_22719162	NC_021163.1	Ca_kabuli_chr04	22719162	TT	CC	1946800317
SNP_P4_46200_22720324	NC_021163.1	Ca_kabuli_chr04	22720324	AA	GG	1946800319
SNP_P4_46202_22728309	NC_021163.1	Ca_kabuli_chr04	22728309	AA	GG	1946800321
SNP_P4_46205_22730637	NC_021163.1	Ca_kabuli_chr04	22730637	TT	GG	1946800323
SNP_P4_46206_22730964	NC_021163.1	Ca_kabuli_chr04	22730964	GG	TT	1946800325
SNP_P4_46208_22735375	NC_021163.1	Ca_kabuli_chr04	22735375	CC	TT	1946800327
SNP_P4_46209_22735450	NC_021163.1	Ca_kabuli_chr04	22735450	CC	TT	1946800329
SNP_P4_46210_22735687	NC_021163.1	Ca_kabuli_chr04	22735687	GG	AA	1946800331
SNP_P4_46211_22735691	NC_021163.1	Ca_kabuli_chr04	22735691	AA	GG	1946800333
SNP_P4_46212_22735882	NC_021163.1	Ca_kabuli_chr04	22735882	GG	AA	1946800335
SNP_P4_46213_22735883	NC_021163.1	Ca_kabuli_chr04	22735883	AA	GG	1946800337
SNP_P4_46214_22736175	NC_021163.1	Ca_kabuli_chr04	22736175	CC	AA	1946800339
SNP_P4_46215_22736189	NC_021163.1	Ca_kabuli_chr04	22736189	TT	CC	1946800341
SNP_P4_46216_22736191	NC_021163.1	Ca_kabuli_chr04	22736191	GG	TT	1946800343
SNP_P4_46217_22736581	NC_021163.1	Ca_kabuli_chr04	22736581	CC	TT	1946800345
SNP_P4_46218_22736613	NC_021163.1	Ca_kabuli_chr04	22736613	TT	GG	1946800347
SNP_P4_46219_22738255	NC_021163.1	Ca_kabuli_chr04	22738255	GG	AA	1946800349
SNP_P4_46220_22738281	NC_021163.1	Ca_kabuli_chr04	22738281	AA	GG	1946800351
SNP_P4_46221_22738680	NC_021163.1	Ca_kabuli_chr04	22738680	TT	CC	1946800353
SNP_P4_46222_22741194	NC_021163.1	Ca_kabuli_chr04	22741194	TT	AA	1946800355
SNP_P4_46223_22741239	NC_021163.1	Ca_kabuli_chr04	22741239	CC	AA	1946800357
SNP_P4_46224_22741352	NC_021163.1	Ca_kabuli_chr04	22741352	GG	AA	1946800359

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_46226_22743402	NC_021163.1	Ca_kabuli_chr04	22743402	CC	AA	1946800364
SNP_P4_46227_22744225	NC_021163.1	Ca_kabuli_chr04	22744225	AA	CC	1946800366
SNP_P4_46228_22744247	NC_021163.1	Ca_kabuli_chr04	22744247	CC	TT	1946800368
SNP_P4_46229_22744265	NC_021163.1	Ca_kabuli_chr04	22744265	AA	CC	1946800370
SNP_P4_46230_22744401	NC_021163.1	Ca_kabuli_chr04	22744401	CC	AA	1946800372
SNP_P4_46233_22744975	NC_021163.1	Ca_kabuli_chr04	22744975	TT	AA	1946800374
SNP_P4_46234_22745173	NC_021163.1	Ca_kabuli_chr04	22745173	CC	TT	1946800376
SNP_P4_46235_22745217	NC_021163.1	Ca_kabuli_chr04	22745217	GG	AA	1946800378
SNP_P4_46236_22745525	NC_021163.1	Ca_kabuli_chr04	22745525	GG	AA	1946800380
SNP_P4_46237_22745534	NC_021163.1	Ca_kabuli_chr04	22745534	GG	AA	1946800382
SNP_P4_46238_22747730	NC_021163.1	Ca_kabuli_chr04	22747730	GG	AA	1946800384
SNP_P4_46239_22748619	NC_021163.1	Ca_kabuli_chr04	22748619	TT	GG	1946800386
SNP_P4_46240_22748925	NC_021163.1	Ca_kabuli_chr04	22748925	CC	TT	1946800388
SNP_P4_46241_22749718	NC_021163.1	Ca_kabuli_chr04	22749718	TT	CC	1946800390
SNP_P4_46242_22749762	NC_021163.1	Ca_kabuli_chr04	22749762	CC	AA	1946800392
SNP_P4_46243_22749967	NC_021163.1	Ca_kabuli_chr04	22749967	GG	TT	1946800394
SNP_P4_46244_22750249	NC_021163.1	Ca_kabuli_chr04	22750249	TT	CC	1946800396
SNP_P4_46245_22750251	NC_021163.1	Ca_kabuli_chr04	22750251	TT	AA	1946800398
SNP_P4_46246_22750324	NC_021163.1	Ca_kabuli_chr04	22750324	AA	TT	1946800400
SNP_P4_46247_22752086	NC_021163.1	Ca_kabuli_chr04	22752086	CC	TT	1946800402
SNP_P4_46248_22753354	NC_021163.1	Ca_kabuli_chr04	22753354	AA	GG	1946800404
SNP_P4_46249_22753429	NC_021163.1	Ca_kabuli_chr04	22753429	CC	GG	1946800406
SNP_P4_46250_22753578	NC_021163.1	Ca_kabuli_chr04	22753578	AA	GG	1946800408
SNP_P4_46251_22753960	NC_021163.1	Ca_kabuli_chr04	22753960	AA	TT	1946800410
SNP_P4_46252_22755119	NC_021163.1	Ca_kabuli_chr04	22755119	GG	TT	1946800412
SNP_P4_46254_22755183	NC_021163.1	Ca_kabuli_chr04	22755183	GG	AA	1946800414
SNP_P4_46255_22755496	NC_021163.1	Ca_kabuli_chr04	22755496	GG	AA	1946800416
SNP_P4_46256_22757172	NC_021163.1	Ca_kabuli_chr04	22757172	CC	TT	1946800418
SNP_P4_46257_22757197	NC_021163.1	Ca_kabuli_chr04	22757197	CC	TT	1946800420
SNP_P4_46258_22757224	NC_021163.1	Ca_kabuli_chr04	22757224	TT	CC	1946800422
SNP_P4_46259_22762799	NC_021163.1	Ca_kabuli_chr04	22762799	TT	CC	1946800424
SNP_P4_46260_22762828	NC_021163.1	Ca_kabuli_chr04	22762828	CC	TT	1946800426
SNP_P4_46261_22762999	NC_021163.1	Ca_kabuli_chr04	22762999	AA	CC	1946800428
SNP_P4_46262_22763037	NC_021163.1	Ca_kabuli_chr04	22763037	TT	AA	1946800430
SNP_P4_46263_22763038	NC_021163.1	Ca_kabuli_chr04	22763038	GG	AA	1946800432
SNP_P4_46264_22763040	NC_021163.1	Ca_kabuli_chr04	22763040	AA	GG	1946800434
SNP_P4_46265_22764141	NC_021163.1	Ca_kabuli_chr04	22764141	TT	GG	1946800436
SNP_P4_46266_22766161	NC_021163.1	Ca_kabuli_chr04	22766161	GG	AA	1946800438
SNP_P4_46267_22766516	NC_021163.1	Ca_kabuli_chr04	22766516	AA	GG	1946800440
SNP_P4_46268_22766520	NC_021163.1	Ca_kabuli_chr04	22766520	AA	TT	1946800442
SNP_P4_46269_22766521	NC_021163.1	Ca_kabuli_chr04	22766521	AA	TT	1946800444

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_46270_22766761	NC_021163.1	Ca_kabuli_chr04	22766761	AA	GG	1946800446
SNP_P4_46271_22767364	NC_021163.1	Ca_kabuli_chr04	22767364	AA	GG	1946800448
SNP_P4_46272_22767369	NC_021163.1	Ca_kabuli_chr04	22767369	TT	CC	1946800450
SNP_P4_46273_22767399	NC_021163.1	Ca_kabuli_chr04	22767399	CC	TT	1946800452
SNP_P4_46274_22767402	NC_021163.1	Ca_kabuli_chr04	22767402	AA	GG	1946800455
SNP_P4_46275_22767737	NC_021163.1	Ca_kabuli_chr04	22767737	AA	TT	1946800457
SNP_P4_46276_22767751	NC_021163.1	Ca_kabuli_chr04	22767751	GG	AA	1946800459
SNP_P4_46277_22767752	NC_021163.1	Ca_kabuli_chr04	22767752	TT	AA	1946800461
SNP_P4_46278_22767778	NC_021163.1	Ca_kabuli_chr04	22767778	TT	CC	1946800463
SNP_P4_46279_22767780	NC_021163.1	Ca_kabuli_chr04	22767780	GG	AA	1946800465
SNP_P4_46280_22767842	NC_021163.1	Ca_kabuli_chr04	22767842	AA	GG	1946800467
SNP_P4_46281_22767879	NC_021163.1	Ca_kabuli_chr04	22767879	TT	AA	1946800469
SNP_P4_46282_22767975	NC_021163.1	Ca_kabuli_chr04	22767975	TT	CC	1946800471
SNP_P4_46283_22768059	NC_021163.1	Ca_kabuli_chr04	22768059	GG	AA	1946800472
SNP_P4_46284_22768168	NC_021163.1	Ca_kabuli_chr04	22768168	CC	GG	1946800474
SNP_P4_46285_22768178	NC_021163.1	Ca_kabuli_chr04	22768178	AA	GG	1946800476
SNP_P4_46286_22772534	NC_021163.1	Ca_kabuli_chr04	22772534	AA	GG	1946800478
SNP_P4_46289_22774735	NC_021163.1	Ca_kabuli_chr04	22774735	AA	GG	1946800480
SNP_P4_46290_22774784	NC_021163.1	Ca_kabuli_chr04	22774784	AA	GG	1946800482
SNP_P4_46291_22774787	NC_021163.1	Ca_kabuli_chr04	22774787	AA	TT	1946800484
SNP_P4_46293_22774984	NC_021163.1	Ca_kabuli_chr04	22774984	GG	AA	1946800486
SNP_P4_46294_22775011	NC_021163.1	Ca_kabuli_chr04	22775011	CC	TT	1946800488
SNP_P4_46295_22775021	NC_021163.1	Ca_kabuli_chr04	22775021	TT	AA	1946800490
SNP_P4_46296_22775038	NC_021163.1	Ca_kabuli_chr04	22775038	TT	CC	1946800493
SNP_P4_46297_22775040	NC_021163.1	Ca_kabuli_chr04	22775040	GG	AA	1946800495
SNP_P4_46298_22775092	NC_021163.1	Ca_kabuli_chr04	22775092	AA	TT	1946800497
SNP_P4_46299_22775704	NC_021163.1	Ca_kabuli_chr04	22775704	GG	AA	1946800499
SNP_P4_46300_22775709	NC_021163.1	Ca_kabuli_chr04	22775709	TT	CC	1946800501
SNP_P4_46301_22775734	NC_021163.1	Ca_kabuli_chr04	22775734	CC	AA	1946800503
SNP_P4_46302_22780656	NC_021163.1	Ca_kabuli_chr04	22780656	TT	AA	1946800505
SNP_P4_46303_22780705	NC_021163.1	Ca_kabuli_chr04	22780705	CC	TT	1946800507
SNP_P4_46305_22780844	NC_021163.1	Ca_kabuli_chr04	22780844	TT	CC	1946800509
SNP_P4_46306_22782562	NC_021163.1	Ca_kabuli_chr04	22782562	TT	CC	1946800511
SNP_P4_46307_22782577	NC_021163.1	Ca_kabuli_chr04	22782577	TT	CC	1946800513
SNP_P4_46308_22782583	NC_021163.1	Ca_kabuli_chr04	22782583	TT	CC	1946800515
SNP_P4_46309_22782592	NC_021163.1	Ca_kabuli_chr04	22782592	CC	TT	1946800517
SNP_P4_46311_22782814	NC_021163.1	Ca_kabuli_chr04	22782814	TT	CC	1946800519
SNP_P4_46312_22783222	NC_021163.1	Ca_kabuli_chr04	22783222	CC	TT	1946800521
SNP_P4_46313_22783471	NC_021163.1	Ca_kabuli_chr04	22783471	CC	AA	1946800523
SNP_P4_46314_22783476	NC_021163.1	Ca_kabuli_chr04	22783476	TT	CC	1946800525
SNP_P4_46315_22786674	NC_021163.1	Ca_kabuli_chr04	22786674	GG	AA	1946800527
SNP_P4_46316_22786690	NC_021163.1	Ca_kabuli_chr04	22786690	TT	CC	1946800529

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_46318_22788785	NC_021163.1	Ca_kabuli_chr04	22788785	CC	TT	1946800533
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SNP_P4_46321_22792938	NC_021163.1	Ca_kabuli_chr04	22792938	TT	AA	1946800537
SNP_P4_46322_22793065	NC_021163.1	Ca_kabuli_chr04	22793065	CC	TT	1946800539
SNP_P4_46323_22793170	NC_021163.1	Ca_kabuli_chr04	22793170	CC	TT	1946800541
SNP_P4_46324_22794312	NC_021163.1	Ca_kabuli_chr04	22794312	AA	CC	1946800543
SNP_P4_46325_22794318	NC_021163.1	Ca_kabuli_chr04	22794318	GG	TT	1946800545
SNP_P4_46327_22794617	NC_021163.1	Ca_kabuli_chr04	22794617	CC	TT	1946800547
SNP_P4_46328_22794656	NC_021163.1	Ca_kabuli_chr04	22794656	TT	CC	1946800549
SNP_P4_46329_22794666	NC_021163.1	Ca_kabuli_chr04	22794666	TT	CC	1946800551
SNP_P4_46331_22796923	NC_021163.1	Ca_kabuli_chr04	22796923	CC	TT	1946800553
SNP_P4_46332_22796931	NC_021163.1	Ca_kabuli_chr04	22796931	CC	TT	1946800555
SNP_P4_46333_22797549	NC_021163.1	Ca_kabuli_chr04	22797549	CC	TT	1946800557
SNP_P4_46335_22798013	NC_021163.1	Ca_kabuli_chr04	22798013	CC	TT	1946800559
SNP_P4_46336_22798360	NC_021163.1	Ca_kabuli_chr04	22798360	AA	CC	1946800561
SNP_P4_46337_22798492	NC_021163.1	Ca_kabuli_chr04	22798492	TT	CC	1946800563
SNP_P4_46338_22798704	NC_021163.1	Ca_kabuli_chr04	22798704	CC	GG	1946800565
SNP_P4_46339_22798733	NC_021163.1	Ca_kabuli_chr04	22798733	CC	TT	1946800567
SNP_P4_46340_22798763	NC_021163.1	Ca_kabuli_chr04	22798763	TT	CC	1946800569
SNP_P4_46342_22799949	NC_021163.1	Ca_kabuli_chr04	22799949	GG	AA	1946800571
SNP_P4_46343_22799951	NC_021163.1	Ca_kabuli_chr04	22799951	GG	CC	1946800573
SNP_P4_46344_22800129	NC_021163.1	Ca_kabuli_chr04	22800129	GG	AA	1946800575
SNP_P4_46345_22800171	NC_021163.1	Ca_kabuli_chr04	22800171	TT	CC	1946800577
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SNP_P4_46348_22800381	NC_021163.1	Ca_kabuli_chr04	22800381	GG	AA	1946800581
SNP_P4_46349_22800562	NC_021163.1	Ca_kabuli_chr04	22800562	CC	TT	1946800583
SNP_P4_46350_22800602	NC_021163.1	Ca_kabuli_chr04	22800602	AA	GG	1946800585
SNP_P4_46351_22801118	NC_021163.1	Ca_kabuli_chr04	22801118	CC	TT	1946800587
SNP_P4_46353_22803958	NC_021163.1	Ca_kabuli_chr04	22803958	AA	GG	1946800589
SNP_P4_46354_22805064	NC_021163.1	Ca_kabuli_chr04	22805064	TT	CC	1946800591
SNP_P4_46355_22806873	NC_021163.1	Ca_kabuli_chr04	22806873	GG	AA	1946800593
SNP_P4_46357_22808692	NC_021163.1	Ca_kabuli_chr04	22808692	AA	TT	1946800595
SNP_P4_46358_22812831	NC_021163.1	Ca_kabuli_chr04	22812831	TT	CC	1946800596
SNP_P4_46360_22816582	NC_021163.1	Ca_kabuli_chr04	22816582	AA	GG	1946800598
SNP_P4_46361_22816596	NC_021163.1	Ca_kabuli_chr04	22816596	TT	AA	1946800600
SNP_P4_46362_22816609	NC_021163.1	Ca_kabuli_chr04	22816609	AA	TT	1946800602
SNP_P4_46363_22816685	NC_021163.1	Ca_kabuli_chr04	22816685	GG	AA	1946800604
SNP_P4_46364_22816772	NC_021163.1	Ca_kabuli_chr04	22816772	TT	AA	1946800606
SNP_P4_46365_22816783	NC_021163.1	Ca_kabuli_chr04	22816783	TT	AA	1946800608
SNP_P4_46366_22816892	NC_021163.1	Ca_kabuli_chr04	22816892	TT	CC	1946800610
SNP_P4_46367_22816901	NC_021163.1	Ca_kabuli_chr04	22816901	CC	TT	1946800612

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_46369_22817065	NC_021163.1	Ca_kabuli_chr04	22817065	CC	TT	1946800616
SNP_P4_46370_22817813	NC_021163.1	Ca_kabuli_chr04	22817813	GG	AA	1946800618
SNP_P4_46371_22818105	NC_021163.1	Ca_kabuli_chr04	22818105	GG	AA	1946800620
SNP_P4_46372_22818111	NC_021163.1	Ca_kabuli_chr04	22818111	TT	AA	1946800622
SNP_P4_46373_22818158	NC_021163.1	Ca_kabuli_chr04	22818158	CC	TT	1946800624
SNP_P4_46374_22818180	NC_021163.1	Ca_kabuli_chr04	22818180	GG	AA	1946800626
SNP_P4_46375_22818183	NC_021163.1	Ca_kabuli_chr04	22818183	TT	CC	1946800627
SNP_P4_46376_22818218	NC_021163.1	Ca_kabuli_chr04	22818218	TT	CC	1946800629
SNP_P4_46377_22818390	NC_021163.1	Ca_kabuli_chr04	22818390	TT	GG	1946800631
SNP_P4_46379_22818540	NC_021163.1	Ca_kabuli_chr04	22818540	AA	CC	1946800633
SNP_P4_46380_22818616	NC_021163.1	Ca_kabuli_chr04	22818616	TT	CC	1946800635
SNP_P4_46381_22818638	NC_021163.1	Ca_kabuli_chr04	22818638	CC	TT	1946800637
SNP_P4_46382_22818647	NC_021163.1	Ca_kabuli_chr04	22818647	TT	CC	1946800639
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SNP_P4_46384_22818973	NC_021163.1	Ca_kabuli_chr04	22818973	TT	GG	1946800643
SNP_P4_46385_22818995	NC_021163.1	Ca_kabuli_chr04	22818995	AA	GG	1946800645
SNP_P4_46386_22819012	NC_021163.1	Ca_kabuli_chr04	22819012	CC	GG	1946800647
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SNP_P4_46388_22820479	NC_021163.1	Ca_kabuli_chr04	22820479	TT	CC	1946800651
SNP_P4_46389_22820880	NC_021163.1	Ca_kabuli_chr04	22820880	AA	GG	1946800653
SNP_P4_46390_22821700	NC_021163.1	Ca_kabuli_chr04	22821700	GG	TT	1946800655
SNP_P4_46391_22822513	NC_021163.1	Ca_kabuli_chr04	22822513	CC	TT	1946800657
SNP_P4_46392_22822527	NC_021163.1	Ca_kabuli_chr04	22822527	CC	AA	1946800659
SNP_P4_46393_22822609	NC_021163.1	Ca_kabuli_chr04	22822609	GG	AA	1946800661
SNP_P4_46395_22824661	NC_021163.1	Ca_kabuli_chr04	22824661	AA	GG	1946800664
SNP_P4_46396_22825104	NC_021163.1	Ca_kabuli_chr04	22825104	TT	CC	1946800666
SNP_P4_46397_22825111	NC_021163.1	Ca_kabuli_chr04	22825111	AA	GG	1946800668
SNP_P4_46398_22825169	NC_021163.1	Ca_kabuli_chr04	22825169	AA	TT	1946800670
SNP_P4_46400_22825343	NC_021163.1	Ca_kabuli_chr04	22825343	GG	AA	1946800672
SNP_P4_46401_22825359	NC_021163.1	Ca_kabuli_chr04	22825359	TT	CC	1946800674
SNP_P4_46402_22825372	NC_021163.1	Ca_kabuli_chr04	22825372	TT	CC	1946800676
SNP_P4_46403_22825381	NC_021163.1	Ca_kabuli_chr04	22825381	AA	GG	1946800678
SNP_P4_46404_22825396	NC_021163.1	Ca_kabuli_chr04	22825396	AA	CC	1946800681
SNP_P4_46405_22825416	NC_021163.1	Ca_kabuli_chr04	22825416	CC	TT	1946800683
SNP_P4_46406_22825427	NC_021163.1	Ca_kabuli_chr04	22825427	TT	GG	1946800685
SNP_P4_46407_22825460	NC_021163.1	Ca_kabuli_chr04	22825460	GG	AA	1946800687
SNP_P4_46408_22825463	NC_021163.1	Ca_kabuli_chr04	22825463	CC	TT	1946800689
SNP_P4_46409_22827207	NC_021163.1	Ca_kabuli_chr04	22827207	CC	TT	1946800691
SNP_P4_46410_22827300	NC_021163.1	Ca_kabuli_chr04	22827300	CC	TT	1946800693
SNP_P4_46412_22833560	NC_021163.1	Ca_kabuli_chr04	22833560	GG	AA	1946800695
SNP_P4_46413_22833937	NC_021163.1	Ca_kabuli_chr04	22833937	TT	CC	1946800697

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_46415_22837072	NC_021163.1	Ca_kabuli_chr04	22837072	AA	CC	1946800701
SNP_P4_46416_22837701	NC_021163.1	Ca_kabuli_chr04	22837701	GG	AA	1946800704
SNP_P4_46418_22837745	NC_021163.1	Ca_kabuli_chr04	22837745	GG	CC	1946800706
SNP_P4_46419_22837765	NC_021163.1	Ca_kabuli_chr04	22837765	GG	AA	1946800708
SNP_P4_46420_22848252	NC_021163.1	Ca_kabuli_chr04	22848252	GG	AA	1946800710
SNP_P4_46421_22848597	NC_021163.1	Ca_kabuli_chr04	22848597	TT	CC	1946800712
SNP_P4_46422_22848647	NC_021163.1	Ca_kabuli_chr04	22848647	AA	CC	1946800714
SNP_P4_46424_22848798	NC_021163.1	Ca_kabuli_chr04	22848798	TT	CC	1946800716
SNP_P4_46425_22851499	NC_021163.1	Ca_kabuli_chr04	22851499	AA	TT	1946800718
SNP_P4_46426_22851515	NC_021163.1	Ca_kabuli_chr04	22851515	AA	GG	1946800720
SNP_P4_46427_22851539	NC_021163.1	Ca_kabuli_chr04	22851539	CC	GG	1946800723
SNP_P4_46429_22853938	NC_021163.1	Ca_kabuli_chr04	22853938	CC	TT	1946800725
SNP_P4_46430_22853960	NC_021163.1	Ca_kabuli_chr04	22853960	AA	GG	1946800727
SNP_P4_46432_22855774	NC_021163.1	Ca_kabuli_chr04	22855774	TT	CC	1946800729
SNP_P4_46436_22856629	NC_021163.1	Ca_kabuli_chr04	22856629	AA	TT	1946800731
SNP_P4_46437_22856723	NC_021163.1	Ca_kabuli_chr04	22856723	GG	CC	1946800733
SNP_P4_46438_22856734	NC_021163.1	Ca_kabuli_chr04	22856734	TT	CC	1946800735
SNP_P4_46439_22857032	NC_021163.1	Ca_kabuli_chr04	22857032	CC	TT	1946800737
SNP_P4_46440_22857711	NC_021163.1	Ca_kabuli_chr04	22857711	TT	AA	1946800739
SNP_P4_46441_22858803	NC_021163.1	Ca_kabuli_chr04	22858803	TT	GG	1946800741
SNP_P4_46442_22862030	NC_021163.1	Ca_kabuli_chr04	22862030	GG	AA	1946800743
SNP_P4_46443_22865009	NC_021163.1	Ca_kabuli_chr04	22865009	CC	TT	1946800745
SNP_P4_46445_22867170	NC_021163.1	Ca_kabuli_chr04	22867170	TT	AA	1946800747
SNP_P4_46446_22867182	NC_021163.1	Ca_kabuli_chr04	22867182	TT	CC	1946800749
SNP_P4_46447_22867205	NC_021163.1	Ca_kabuli_chr04	22867205	AA	GG	1946800751
SNP_P4_46450_22869688	NC_021163.1	Ca_kabuli_chr04	22869688	CC	GG	1946800753
SNP_P4_46451_22869779	NC_021163.1	Ca_kabuli_chr04	22869779	AA	CC	1946800755
SNP_P4_46454_22870184	NC_021163.1	Ca_kabuli_chr04	22870184	CC	TT	1946800757
SNP_P4_46455_22876509	NC_021163.1	Ca_kabuli_chr04	22876509	CC	TT	1946800759
SNP_P4_46456_22876810	NC_021163.1	Ca_kabuli_chr04	22876810	GG	AA	1946800761
SNP_P4_46457_22876816	NC_021163.1	Ca_kabuli_chr04	22876816	TT	GG	1946800763
SNP_P4_46458_22876820	NC_021163.1	Ca_kabuli_chr04	22876820	AA	GG	1946800765
SNP_P4_46460_22879225	NC_021163.1	Ca_kabuli_chr04	22879225	CC	AA	1946800767
SNP_P4_46461_22879458	NC_021163.1	Ca_kabuli_chr04	22879458	GG	TT	1946800769
SNP_P4_46462_22879465	NC_021163.1	Ca_kabuli_chr04	22879465	GG	AA	1946800771
SNP_P4_46463_22879722	NC_021163.1	Ca_kabuli_chr04	22879722	CC	TT	1946800773
SNP_P4_46464_22879782	NC_021163.1	Ca_kabuli_chr04	22879782	GG	AA	1946800775
SNP_P4_46465_22880280	NC_021163.1	Ca_kabuli_chr04	22880280	TT	AA	1946800777
SNP_P4_46466_22880546	NC_021163.1	Ca_kabuli_chr04	22880546	AA	GG	1946800779
SNP_P4_46467_22881586	NC_021163.1	Ca_kabuli_chr04	22881586	AA	GG	1946800782
SNP_P4_46468_22883241	NC_021163.1	Ca_kabuli_chr04	22883241	GG	AA	1946800784

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_46470_22883317	NC_021163.1	Ca_kabuli_chr04	22883317	GG	AA	1946800788
SNP_P4_46471_22883493	NC_021163.1	Ca_kabuli_chr04	22883493	GG	AA	1946800790
SNP_P4_46472_22883556	NC_021163.1	Ca_kabuli_chr04	22883556	AA	GG	1946800792
SNP_P4_46473_22883674	NC_021163.1	Ca_kabuli_chr04	22883674	GG	TT	1946800794
SNP_P4_46474_22883970	NC_021163.1	Ca_kabuli_chr04	22883970	CC	GG	1946800797
SNP_P4_46475_22884026	NC_021163.1	Ca_kabuli_chr04	22884026	TT	AA	1946800799
SNP_P4_46476_22884341	NC_021163.1	Ca_kabuli_chr04	22884341	TT	GG	1946800801
SNP_P4_46477_22884748	NC_021163.1	Ca_kabuli_chr04	22884748	GG	CC	1946800803
SNP_P4_46478_22884796	NC_021163.1	Ca_kabuli_chr04	22884796	AA	GG	1946800805
SNP_P4_46479_22889556	NC_021163.1	Ca_kabuli_chr04	22889556	CC	TT	1946800807
SNP_P4_46481_22889586	NC_021163.1	Ca_kabuli_chr04	22889586	CC	GG	1946800809
SNP_P4_46482_22889612	NC_021163.1	Ca_kabuli_chr04	22889612	CC	AA	1946800811
SNP_P4_46483_22889943	NC_021163.1	Ca_kabuli_chr04	22889943	GG	CC	1946800813
SNP_P4_46484_22890107	NC_021163.1	Ca_kabuli_chr04	22890107	AA	GG	1946800815
SNP_P4_46485_22890174	NC_021163.1	Ca_kabuli_chr04	22890174	CC	GG	1946800817
SNP_P4_46486_22890290	NC_021163.1	Ca_kabuli_chr04	22890290	CC	AA	1946800819
SNP_P4_46488_22890355	NC_021163.1	Ca_kabuli_chr04	22890355	TT	CC	1946800821
SNP_P4_46490_22890628	NC_021163.1	Ca_kabuli_chr04	22890628	AA	GG	1946800823
SNP_P4_46492_22890854	NC_021163.1	Ca_kabuli_chr04	22890854	AA	GG	1946800825
SNP_P4_46493_22894041	NC_021163.1	Ca_kabuli_chr04	22894041	AA	TT	1946800827
SNP_P4_46494_22894416	NC_021163.1	Ca_kabuli_chr04	22894416	TT	GG	1946800829
SNP_P4_46495_22894725	NC_021163.1	Ca_kabuli_chr04	22894725	AA	GG	1946800832
SNP_P4_46496_22894835	NC_021163.1	Ca_kabuli_chr04	22894835	TT	AA	1946800834
SNP_P4_46497_22894897	NC_021163.1	Ca_kabuli_chr04	22894897	CC	AA	1946800836
SNP_P4_46498_22895153	NC_021163.1	Ca_kabuli_chr04	22895153	GG	AA	1946800838
SNP_P4_46499_22895211	NC_021163.1	Ca_kabuli_chr04	22895211	CC	TT	1946800840
SNP_P4_46501_22895453	NC_021163.1	Ca_kabuli_chr04	22895453	GG	CC	1946800842
SNP_P4_46502_22895508	NC_021163.1	Ca_kabuli_chr04	22895508	TT	CC	1946800844
SNP_P4_46503_22896020	NC_021163.1	Ca_kabuli_chr04	22896020	AA	GG	1946800846
SNP_P4_46504_22896739	NC_021163.1	Ca_kabuli_chr04	22896739	TT	CC	1946800848
SNP_P4_46505_22898054	NC_021163.1	Ca_kabuli_chr04	22898054	CC	TT	1946800850
SNP_P4_46506_22900812	NC_021163.1	Ca_kabuli_chr04	22900812	AA	GG	1946800852
SNP_P4_46507_22900814	NC_021163.1	Ca_kabuli_chr04	22900814	TT	AA	1946800854
SNP_P4_46508_22900878	NC_021163.1	Ca_kabuli_chr04	22900878	GG	AA	1946800856
SNP_P4_46509_22901184	NC_021163.1	Ca_kabuli_chr04	22901184	CC	TT	1946800858
SNP_P4_46510_22902256	NC_021163.1	Ca_kabuli_chr04	22902256	TT	AA	1946800860
SNP_P4_46511_22902346	NC_021163.1	Ca_kabuli_chr04	22902346	TT	AA	1946800862
SNP_P4_46513_22905588	NC_021163.1	Ca_kabuli_chr04	22905588	CC	TT	1946800864
SNP_P4_46515_22914536	NC_021163.1	Ca_kabuli_chr04	22914536	CC	TT	1946800866
SNP_P4_46516_22914628	NC_021163.1	Ca_kabuli_chr04	22914628	GG	TT	1946800868
SNP_P4_46517_22916453	NC_021163.1	Ca_kabuli_chr04	22916453	AA	GG	1946800870

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_46519_22916839	NC_021163.1	Ca_kabuli_chr04	22916839	TT	GG	1946800874
SNP_P4_46520_22917544	NC_021163.1	Ca_kabuli_chr04	22917544	AA	GG	1946800876
SNP_P4_46521_22917729	NC_021163.1	Ca_kabuli_chr04	22917729	TT	CC	1946800878
SNP_P4_46522_22917742	NC_021163.1	Ca_kabuli_chr04	22917742	AA	GG	1946800880
SNP_P4_46523_22917759	NC_021163.1	Ca_kabuli_chr04	22917759	TT	AA	1946800882
SNP_P4_46524_22917943	NC_021163.1	Ca_kabuli_chr04	22917943	TT	CC	1946800884
SNP_P4_46525_22917973	NC_021163.1	Ca_kabuli_chr04	22917973	CC	TT	1946800886
SNP_P4_46526_22917980	NC_021163.1	Ca_kabuli_chr04	22917980	GG	AA	1946800888
SNP_P4_46527_22918181	NC_021163.1	Ca_kabuli_chr04	22918181	AA	CC	1946800890
SNP_P4_46529_22924021	NC_021163.1	Ca_kabuli_chr04	22924021	TT	CC	1946800893
SNP_P4_46530_22924498	NC_021163.1	Ca_kabuli_chr04	22924498	AA	GG	1946800895
SNP_P4_46531_22925351	NC_021163.1	Ca_kabuli_chr04	22925351	TT	CC	1946800897
SNP_P4_46532_22927817	NC_021163.1	Ca_kabuli_chr04	22927817	GG	AA	1946800899
SNP_P4_46533_22930475	NC_021163.1	Ca_kabuli_chr04	22930475	GG	AA	1946800901
SNP_P4_46534_22931749	NC_021163.1	Ca_kabuli_chr04	22931749	CC	TT	1946800903
SNP_P4_46536_22932510	NC_021163.1	Ca_kabuli_chr04	22932510	TT	CC	1946800905
SNP_P4_46537_22932683	NC_021163.1	Ca_kabuli_chr04	22932683	CC	TT	1946800907
SNP_P4_46538_22932932	NC_021163.1	Ca_kabuli_chr04	22932932	CC	TT	1946800909
SNP_P4_46539_22934538	NC_021163.1	Ca_kabuli_chr04	22934538	TT	AA	1946800911
SNP_P4_46540_22934732	NC_021163.1	Ca_kabuli_chr04	22934732	CC	AA	1946800913
SNP_P4_46541_22934788	NC_021163.1	Ca_kabuli_chr04	22934788	CC	TT	1946800915
SNP_P4_46542_22934827	NC_021163.1	Ca_kabuli_chr04	22934827	AA	CC	1946800917
SNP_P4_46543_22936652	NC_021163.1	Ca_kabuli_chr04	22936652	AA	GG	1946800919
SNP_P4_46544_22937486	NC_021163.1	Ca_kabuli_chr04	22937486	AA	GG	1946800921
SNP_P4_46545_22937614	NC_021163.1	Ca_kabuli_chr04	22937614	TT	CC	1946800923
SNP_P4_46546_22937663	NC_021163.1	Ca_kabuli_chr04	22937663	AA	TT	1946800925
SNP_P4_46547_22937866	NC_021163.1	Ca_kabuli_chr04	22937866	TT	CC	1946800927
SNP_P4_46548_22938331	NC_021163.1	Ca_kabuli_chr04	22938331	AA	GG	1946800929
SNP_P4_46549_22938359	NC_021163.1	Ca_kabuli_chr04	22938359	TT	CC	1946800932
SNP_P4_46550_22938667	NC_021163.1	Ca_kabuli_chr04	22938667	CC	TT	1946800934
SNP_P4_46551_22939719	NC_021163.1	Ca_kabuli_chr04	22939719	AA	GG	1946800936
SNP_P4_46552_22939972	NC_021163.1	Ca_kabuli_chr04	22939972	TT	CC	1946800938
SNP_P4_46553_22941701	NC_021163.1	Ca_kabuli_chr04	22941701	TT	CC	1946800940
SNP_P4_46554_22942418	NC_021163.1	Ca_kabuli_chr04	22942418	GG	AA	1946800942
SNP_P4_46555_22943447	NC_021163.1	Ca_kabuli_chr04	22943447	CC	TT	1946800944
SNP_P4_46556_22943465	NC_021163.1	Ca_kabuli_chr04	22943465	TT	GG	1946800946
SNP_P4_46557_22943494	NC_021163.1	Ca_kabuli_chr04	22943494	GG	AA	1946800948
SNP_P4_46558_22943582	NC_021163.1	Ca_kabuli_chr04	22943582	TT	CC	1946800950
SNP_P4_46560_22943711	NC_021163.1	Ca_kabuli_chr04	22943711	GG	AA	1946800952
SNP_P4_46561_22943812	NC_021163.1	Ca_kabuli_chr04	22943812	TT	GG	1946800954
SNP_P4_46562_22944159	NC_021163.1	Ca_kabuli_chr04	22944159	TT	CC	1946800956

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_46564_22944912	NC_021163.1	Ca_kabuli_chr04	22944912	CC	TT	1946800960
SNP_P4_46565_22944965	NC_021163.1	Ca_kabuli_chr04	22944965	AA	TT	1946800962
SNP_P4_46566_22944989	NC_021163.1	Ca_kabuli_chr04	22944989	AA	GG	1946800964
SNP_P4_46567_22945261	NC_021163.1	Ca_kabuli_chr04	22945261	TT	CC	1946800966
SNP_P4_46569_22946182	NC_021163.1	Ca_kabuli_chr04	22946182	GG	AA	1946800968
SNP_P4_46570_22946209	NC_021163.1	Ca_kabuli_chr04	22946209	GG	AA	1946800970
SNP_P4_46571_22946218	NC_021163.1	Ca_kabuli_chr04	22946218	AA	CC	1946800972
SNP_P4_46572_22947045	NC_021163.1	Ca_kabuli_chr04	22947045	AA	GG	1946800974
SNP_P4_46573_22947049	NC_021163.1	Ca_kabuli_chr04	22947049	GG	AA	1946800976
SNP_P4_46575_22947094	NC_021163.1	Ca_kabuli_chr04	22947094	AA	GG	1946800978
SNP_P4_46576_22947877	NC_021163.1	Ca_kabuli_chr04	22947877	CC	TT	1946800980
SNP_P4_46577_22948298	NC_021163.1	Ca_kabuli_chr04	22948298	CC	TT	1946800982
SNP_P4_46578_22949000	NC_021163.1	Ca_kabuli_chr04	22949000	TT	CC	1946800984
SNP_P4_46579_22950077	NC_021163.1	Ca_kabuli_chr04	22950077	CC	TT	1946800986
SNP_P4_46580_22950354	NC_021163.1	Ca_kabuli_chr04	22950354	CC	TT	1946800988
SNP_P4_46581_22950800	NC_021163.1	Ca_kabuli_chr04	22950800	GG	AA	1946800990
SNP_P4_46582_22950834	NC_021163.1	Ca_kabuli_chr04	22950834	CC	TT	1946800992
SNP_P4_46583_22951273	NC_021163.1	Ca_kabuli_chr04	22951273	GG	AA	1946800994
SNP_P4_46584_22951564	NC_021163.1	Ca_kabuli_chr04	22951564	TT	CC	1946800996
SNP_P4_46585_22954737	NC_021163.1	Ca_kabuli_chr04	22954737	CC	TT	1946800998
SNP_P4_46586_22957628	NC_021163.1	Ca_kabuli_chr04	22957628	TT	CC	1946801000
SNP_P4_46587_22957661	NC_021163.1	Ca_kabuli_chr04	22957661	TT	CC	1946801002
SNP_P4_46588_22961219	NC_021163.1	Ca_kabuli_chr04	22961219	AA	GG	1946801004
SNP_P4_46589_22966959	NC_021163.1	Ca_kabuli_chr04	22966959	CC	TT	1946801006
SNP_P4_46590_22969275	NC_021163.1	Ca_kabuli_chr04	22969275	AA	GG	1946801008
SNP_P4_46591_22969281	NC_021163.1	Ca_kabuli_chr04	22969281	GG	AA	1946801010
SNP_P4_46593_22970515	NC_021163.1	Ca_kabuli_chr04	22970515	TT	CC	1946801012
SNP_P4_46594_22970599	NC_021163.1	Ca_kabuli_chr04	22970599	TT	CC	1946801014
SNP_P4_46595_22970710	NC_021163.1	Ca_kabuli_chr04	22970710	CC	TT	1946801016
SNP_P4_46596_22970883	NC_021163.1	Ca_kabuli_chr04	22970883	AA	GG	1946801018
SNP_P4_46598_22971608	NC_021163.1	Ca_kabuli_chr04	22971608	TT	AA	1946801020
SNP_P4_46599_22971853	NC_021163.1	Ca_kabuli_chr04	22971853	CC	AA	1946801022
SNP_P4_46600_22973089	NC_021163.1	Ca_kabuli_chr04	22973089	AA	GG	1946801025
SNP_P4_46602_22973424	NC_021163.1	Ca_kabuli_chr04	22973424	CC	TT	1946801027
SNP_P4_46603_22973947	NC_021163.1	Ca_kabuli_chr04	22973947	AA	GG	1946801029
SNP_P4_46606_22975114	NC_021163.1	Ca_kabuli_chr04	22975114	TT	GG	1946801031
SNP_P4_46607_22975418	NC_021163.1	Ca_kabuli_chr04	22975418	CC	TT	1946801033
SNP_P4_46608_22976029	NC_021163.1	Ca_kabuli_chr04	22976029	TT	CC	1946801035
SNP_P4_46609_22976587	NC_021163.1	Ca_kabuli_chr04	22976587	AA	GG	1946801037
SNP_P4_46610_22981332	NC_021163.1	Ca_kabuli_chr04	22981332	GG	AA	1946801039
SNP_P4_46611_22981451	NC_021163.1	Ca_kabuli_chr04	22981451	TT	AA	1946801041

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_46613_22981489	NC_021163.1	Ca_kabuli_chr04	22981489	AA	CC	1946801045
SNP_P4_46614_22981495	NC_021163.1	Ca_kabuli_chr04	22981495	CC	TT	1946801047
SNP_P4_46615_22981526	NC_021163.1	Ca_kabuli_chr04	22981526	TT	GG	1946801049
SNP_P4_46616_22981559	NC_021163.1	Ca_kabuli_chr04	22981559	GG	AA	1946801051
SNP_P4_46617_22981597	NC_021163.1	Ca_kabuli_chr04	22981597	AA	GG	1946801053
SNP_P4_46618_22981769	NC_021163.1	Ca_kabuli_chr04	22981769	GG	CC	1946801055
SNP_P4_46619_22981781	NC_021163.1	Ca_kabuli_chr04	22981781	AA	CC	1946801057
SNP_P4_46620_22982395	NC_021163.1	Ca_kabuli_chr04	22982395	AA	TT	1946801059
SNP_P4_46621_22982762	NC_021163.1	Ca_kabuli_chr04	22982762	GG	AA	1946801061
SNP_P4_46622_22982766	NC_021163.1	Ca_kabuli_chr04	22982766	TT	CC	1946801063
SNP_P4_46623_22982774	NC_021163.1	Ca_kabuli_chr04	22982774	TT	GG	1946801065
SNP_P4_46624_22983764	NC_021163.1	Ca_kabuli_chr04	22983764	AA	TT	1946801067
SNP_P4_46625_22983780	NC_021163.1	Ca_kabuli_chr04	22983780	CC	TT	1946801069
SNP_P4_46627_22988085	NC_021163.1	Ca_kabuli_chr04	22988085	TT	AA	1946801072
SNP_P4_46628_22988122	NC_021163.1	Ca_kabuli_chr04	22988122	GG	AA	1946801074
SNP_P4_46629_22988147	NC_021163.1	Ca_kabuli_chr04	22988147	GG	AA	1946801076
SNP_P4_46631_22988552	NC_021163.1	Ca_kabuli_chr04	22988552	GG	TT	1946801078
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SNP_P4_46633_22988796	NC_021163.1	Ca_kabuli_chr04	22988796	CC	TT	1946801082
SNP_P4_46634_22989530	NC_021163.1	Ca_kabuli_chr04	22989530	TT	CC	1946801084
SNP_P4_46635_23002188	NC_021163.1	Ca_kabuli_chr04	23002188	AA	GG	1946801086
SNP_P4_46636_23002392	NC_021163.1	Ca_kabuli_chr04	23002392	TT	CC	1946801088
SNP_P4_46637_23002428	NC_021163.1	Ca_kabuli_chr04	23002428	CC	GG	1946801090
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SNP_P4_46639_23002472	NC_021163.1	Ca_kabuli_chr04	23002472	TT	CC	1946801095
SNP_P4_46641_23002527	NC_021163.1	Ca_kabuli_chr04	23002527	CC	TT	1946801097
SNP_P4_46644_23002791	NC_021163.1	Ca_kabuli_chr04	23002791	TT	AA	1946801099
SNP_P4_46645_23002880	NC_021163.1	Ca_kabuli_chr04	23002880	CC	TT	1946801101
SNP_P4_46646_23002931	NC_021163.1	Ca_kabuli_chr04	23002931	AA	CC	1946801103
SNP_P4_46647_23002934	NC_021163.1	Ca_kabuli_chr04	23002934	AA	GG	1946801105
SNP_P4_46649_23003034	NC_021163.1	Ca_kabuli_chr04	23003034	GG	AA	1946801107
SNP_P4_46650_23003055	NC_021163.1	Ca_kabuli_chr04	23003055	TT	CC	1946801109
SNP_P4_46651_23003082	NC_021163.1	Ca_kabuli_chr04	23003082	AA	GG	1946801111
SNP_P4_46654_23015300	NC_021163.1	Ca_kabuli_chr04	23015300	AA	CC	1946801113
SNP_P4_46655_23015459	NC_021163.1	Ca_kabuli_chr04	23015459	GG	AA	1946801115
SNP_P4_46656_23016386	NC_021163.1	Ca_kabuli_chr04	23016386	CC	TT	1946801117
SNP_P4_46657_23016437	NC_021163.1	Ca_kabuli_chr04	23016437	GG	AA	1946801119
SNP_P4_46658_23018113	NC_021163.1	Ca_kabuli_chr04	23018113	TT	GG	1946801121
SNP_P4_46659_23018231	NC_021163.1	Ca_kabuli_chr04	23018231	CC	TT	1946801123
SNP_P4_46660_23018274	NC_021163.1	Ca_kabuli_chr04	23018274	CC	AA	1946801125
SNP_P4_46661_23018280	NC_021163.1	Ca_kabuli_chr04	23018280	TT	AA	1946801127

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_46667_23019685	NC_021163.1	Ca_kabuli_chr04	23019685	TT	AA	1946801133
SNP_P4_46668_23019686	NC_021163.1	Ca_kabuli_chr04	23019686	TT	AA	1946801135
SNP_P4_46669_23019702	NC_021163.1	Ca_kabuli_chr04	23019702	CC	TT	1946801137
SNP_P4_46670_23019846	NC_021163.1	Ca_kabuli_chr04	23019846	CC	AA	1946801139
SNP_P4_46671_23020108	NC_021163.1	Ca_kabuli_chr04	23020108	GG	AA	1946801142
SNP_P4_46672_23020132	NC_021163.1	Ca_kabuli_chr04	23020132	CC	TT	1946801144
SNP_P4_46673_23029806	NC_021163.1	Ca_kabuli_chr04	23029806	AA	TT	1946801146
SNP_P4_46674_23030166	NC_021163.1	Ca_kabuli_chr04	23030166	TT	CC	1946801148
SNP_P4_46675_23030623	NC_021163.1	Ca_kabuli_chr04	23030623	AA	GG	1946801150
SNP_P4_46676_23031865	NC_021163.1	Ca_kabuli_chr04	23031865	CC	TT	1946801152
SNP_P4_46677_23032315	NC_021163.1	Ca_kabuli_chr04	23032315	CC	TT	1946801154
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SNP_P4_46679_23034066	NC_021163.1	Ca_kabuli_chr04	23034066	AA	GG	1946801158
SNP_P4_46680_23034261	NC_021163.1	Ca_kabuli_chr04	23034261	AA	TT	1946801160
SNP_P4_46681_23034838	NC_021163.1	Ca_kabuli_chr04	23034838	GG	AA	1946801162
SNP_P4_46682_23036564	NC_021163.1	Ca_kabuli_chr04	23036564	TT	GG	1946801164
SNP_P4_46683_23036675	NC_021163.1	Ca_kabuli_chr04	23036675	GG	CC	1946801166
SNP_P4_46684_23036734	NC_021163.1	Ca_kabuli_chr04	23036734	CC	TT	1946801168
SNP_P4_46685_23036790	NC_021163.1	Ca_kabuli_chr04	23036790	CC	TT	1946801170
SNP_P4_46686_23036811	NC_021163.1	Ca_kabuli_chr04	23036811	GG	AA	1946801172
SNP_P4_46687_23037044	NC_021163.1	Ca_kabuli_chr04	23037044	TT	GG	1946801174
SNP_P4_46688_23037049	NC_021163.1	Ca_kabuli_chr04	23037049	AA	GG	1946801176
SNP_P4_46689_23037051	NC_021163.1	Ca_kabuli_chr04	23037051	GG	TT	1946801178
SNP_P4_46690_23037086	NC_021163.1	Ca_kabuli_chr04	23037086	GG	CC	1946801180
SNP_P4_46691_23037096	NC_021163.1	Ca_kabuli_chr04	23037096	GG	AA	1946801182
SNP_P4_46692_23037127	NC_021163.1	Ca_kabuli_chr04	23037127	TT	CC	1946801184
SNP_P4_46693_23037150	NC_021163.1	Ca_kabuli_chr04	23037150	GG	AA	1946801186
SNP_P4_46694_23037157	NC_021163.1	Ca_kabuli_chr04	23037157	GG	AA	1946801188
SNP_P4_46695_23037405	NC_021163.1	Ca_kabuli_chr04	23037405	TT	CC	1946801190
SNP_P4_46696_23037477	NC_021163.1	Ca_kabuli_chr04	23037477	TT	CC	1946801192
SNP_P4_46697_23037783	NC_021163.1	Ca_kabuli_chr04	23037783	CC	GG	1946801194
SNP_P4_46699_23037815	NC_021163.1	Ca_kabuli_chr04	23037815	GG	AA	1946801196
SNP_P4_46700_23038594	NC_021163.1	Ca_kabuli_chr04	23038594	CC	TT	1946801198
SNP_P4_46701_23038786	NC_021163.1	Ca_kabuli_chr04	23038786	AA	GG	1946801200
SNP_P4_46702_23038940	NC_021163.1	Ca_kabuli_chr04	23038940	CC	AA	1946801202
SNP_P4_46703_23038951	NC_021163.1	Ca_kabuli_chr04	23038951	AA	CC	1946801204
SNP_P4_46704_23038965	NC_021163.1	Ca_kabuli_chr04	23038965	AA	GG	1946801206
SNP_P4_46705_23038970	NC_021163.1	Ca_kabuli_chr04	23038970	CC	TT	1946801208
SNP_P4_46706_23039005	NC_021163.1	Ca_kabuli_chr04	23039005	CC	TT	1946801210
SNP_P4_46707_23039036	NC_021163.1	Ca_kabuli_chr04	23039036	CC	TT	1946801212

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_46709_23039155	NC_021163.1	Ca_kabuli_chr04	23039155	CC	GG	1946801217
SNP_P4_46710_23039157	NC_021163.1	Ca_kabuli_chr04	23039157	AA	GG	1946801219
SNP_P4_46711_23039165	NC_021163.1	Ca_kabuli_chr04	23039165	GG	TT	1946801221
SNP_P4_46712_23039169	NC_021163.1	Ca_kabuli_chr04	23039169	AA	GG	1946801223
SNP_P4_46713_23039217	NC_021163.1	Ca_kabuli_chr04	23039217	AA	CC	1946801225
SNP_P4_46714_23039595	NC_021163.1	Ca_kabuli_chr04	23039595	CC	TT	1946801227
SNP_P4_46716_23039853	NC_021163.1	Ca_kabuli_chr04	23039853	TT	CC	1946801229
SNP_P4_46717_23039908	NC_021163.1	Ca_kabuli_chr04	23039908	TT	CC	1946801231
SNP_P4_46718_23039914	NC_021163.1	Ca_kabuli_chr04	23039914	GG	TT	1946801233
SNP_P4_46719_23039946	NC_021163.1	Ca_kabuli_chr04	23039946	TT	GG	1946801235
SNP_P4_46720_23040200	NC_021163.1	Ca_kabuli_chr04	23040200	GG	TT	1946801237
SNP_P4_46721_23041454	NC_021163.1	Ca_kabuli_chr04	23041454	CC	AA	1946801239
SNP_P4_46722_23041456	NC_021163.1	Ca_kabuli_chr04	23041456	GG	AA	1946801241
SNP_P4_46723_23041478	NC_021163.1	Ca_kabuli_chr04	23041478	AA	CC	1946801243
SNP_P4_46724_23041515	NC_021163.1	Ca_kabuli_chr04	23041515	GG	AA	1946801245
SNP_P4_46725_23041758	NC_021163.1	Ca_kabuli_chr04	23041758	CC	TT	1946801247
SNP_P4_46726_23041765	NC_021163.1	Ca_kabuli_chr04	23041765	TT	CC	1946801249
SNP_P4_46727_23043800	NC_021163.1	Ca_kabuli_chr04	23043800	CC	AA	1946801251
SNP_P4_46728_23043824	NC_021163.1	Ca_kabuli_chr04	23043824	TT	CC	1946801253
SNP_P4_46729_23043826	NC_021163.1	Ca_kabuli_chr04	23043826	AA	GG	1946801255
SNP_P4_46730_23044331	NC_021163.1	Ca_kabuli_chr04	23044331	AA	GG	1946801257
SNP_P4_46731_23046087	NC_021163.1	Ca_kabuli_chr04	23046087	TT	GG	1946801259
SNP_P4_46732_23046235	NC_021163.1	Ca_kabuli_chr04	23046235	AA	GG	1946801261
SNP_P4_46733_23046263	NC_021163.1	Ca_kabuli_chr04	23046263	AA	GG	1946801263
SNP_P4_46734_23046527	NC_021163.1	Ca_kabuli_chr04	23046527	CC	TT	1946801265
SNP_P4_46735_23047041	NC_021163.1	Ca_kabuli_chr04	23047041	TT	AA	1946801267
SNP_P4_46736_23047961	NC_021163.1	Ca_kabuli_chr04	23047961	TT	CC	1946801269
SNP_P4_46738_23050192	NC_021163.1	Ca_kabuli_chr04	23050192	GG	AA	1946801271
SNP_P4_46739_23050194	NC_021163.1	Ca_kabuli_chr04	23050194	AA	TT	1946801273
SNP_P4_46740_23050204	NC_021163.1	Ca_kabuli_chr04	23050204	CC	AA	1946801275
SNP_P4_46741_23050269	NC_021163.1	Ca_kabuli_chr04	23050269	GG	TT	1946801277
SNP_P4_46742_23050283	NC_021163.1	Ca_kabuli_chr04	23050283	AA	GG	1946801279
SNP_P4_46743_23050285	NC_021163.1	Ca_kabuli_chr04	23050285	TT	GG	1946801281
SNP_P4_46744_23050294	NC_021163.1	Ca_kabuli_chr04	23050294	CC	TT	1946801283
SNP_P4_46745_23050308	NC_021163.1	Ca_kabuli_chr04	23050308	CC	TT	1946801285
SNP_P4_46746_23054669	NC_021163.1	Ca_kabuli_chr04	23054669	GG	TT	1946801287
SNP_P4_46747_23054682	NC_021163.1	Ca_kabuli_chr04	23054682	TT	CC	1946801289
SNP_P4_46748_23054741	NC_021163.1	Ca_kabuli_chr04	23054741	CC	TT	1946801291
SNP_P4_46749_23054833	NC_021163.1	Ca_kabuli_chr04	23054833	AA	GG	1946801293
SNP_P4_46750_23054926	NC_021163.1	Ca_kabuli_chr04	23054926	AA	GG	1946801295
SNP_P4_46752_23055092	NC_021163.1	Ca_kabuli_chr04	23055092	TT	CC	1946801297

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_46755_23055468	NC_021163.1	Ca_kabuli_chr04	23055468	AA	GG	1946801301
SNP_P4_46756_23055594	NC_021163.1	Ca_kabuli_chr04	23055594	TT	CC	1946801303
SNP_P4_46757_23055599	NC_021163.1	Ca_kabuli_chr04	23055599	GG	TT	1946801305
SNP_P4_46758_23055601	NC_021163.1	Ca_kabuli_chr04	23055601	AA	GG	1946801307
SNP_P4_46760_23058223	NC_021163.1	Ca_kabuli_chr04	23058223	AA	GG	1946801309
SNP_P4_46761_23058224	NC_021163.1	Ca_kabuli_chr04	23058224	CC	TT	1946801311
SNP_P4_46762_23058230	NC_021163.1	Ca_kabuli_chr04	23058230	TT	CC	1946801313
SNP_P4_46763_23058249	NC_021163.1	Ca_kabuli_chr04	23058249	CC	TT	1946801315
SNP_P4_46764_23058259	NC_021163.1	Ca_kabuli_chr04	23058259	TT	CC	1946801317
SNP_P4_46765_23058395	NC_021163.1	Ca_kabuli_chr04	23058395	GG	AA	1946801319
SNP_P4_46766_23058484	NC_021163.1	Ca_kabuli_chr04	23058484	GG	AA	1946801321
SNP_P4_46768_23058548	NC_021163.1	Ca_kabuli_chr04	23058548	AA	TT	1946801323
SNP_P4_46769_23058585	NC_021163.1	Ca_kabuli_chr04	23058585	GG	AA	1946801325
SNP_P4_46771_23060360	NC_021163.1	Ca_kabuli_chr04	23060360	AA	CC	1946801327
SNP_P4_46772_23060363	NC_021163.1	Ca_kabuli_chr04	23060363	TT	GG	1946801329
SNP_P4_46773_23060475	NC_021163.1	Ca_kabuli_chr04	23060475	AA	CC	1946801331
SNP_P4_46774_23060633	NC_021163.1	Ca_kabuli_chr04	23060633	TT	CC	1946801334
SNP_P4_46775_23061742	NC_021163.1	Ca_kabuli_chr04	23061742	TT	CC	1946801336
SNP_P4_46776_23064524	NC_021163.1	Ca_kabuli_chr04	23064524	GG	CC	1946801338
SNP_P4_46778_23064810	NC_021163.1	Ca_kabuli_chr04	23064810	TT	CC	1946801340
SNP_P4_46779_23064825	NC_021163.1	Ca_kabuli_chr04	23064825	TT	GG	1946801342
SNP_P4_46780_23064831	NC_021163.1	Ca_kabuli_chr04	23064831	TT	CC	1946801344
SNP_P4_46781_23064935	NC_021163.1	Ca_kabuli_chr04	23064935	AA	GG	1946801346
SNP_P4_46782_23067247	NC_021163.1	Ca_kabuli_chr04	23067247	GG	TT	1946801348
SNP_P4_46783_23067319	NC_021163.1	Ca_kabuli_chr04	23067319	CC	TT	1946801350
SNP_P4_46784_23075353	NC_021163.1	Ca_kabuli_chr04	23075353	GG	CC	1946801352
SNP_P4_46785_23075860	NC_021163.1	Ca_kabuli_chr04	23075860	CC	AA	1946801354
SNP_P4_46786_23076070	NC_021163.1	Ca_kabuli_chr04	23076070	CC	TT	1946801356
SNP_P4_46787_23076086	NC_021163.1	Ca_kabuli_chr04	23076086	TT	AA	1946801358
SNP_P4_46788_23076093	NC_021163.1	Ca_kabuli_chr04	23076093	GG	TT	1946801360
SNP_P4_46790_23076260	NC_021163.1	Ca_kabuli_chr04	23076260	CC	TT	1946801362
SNP_P4_46791_23076287	NC_021163.1	Ca_kabuli_chr04	23076287	TT	CC	1946801364
SNP_P4_46792_23076306	NC_021163.1	Ca_kabuli_chr04	23076306	CC	TT	1946801366
SNP_P4_46793_23076307	NC_021163.1	Ca_kabuli_chr04	23076307	CC	GG	1946801368
SNP_P4_46794_23076396	NC_021163.1	Ca_kabuli_chr04	23076396	TT	CC	1946801370
SNP_P4_46795_23076417	NC_021163.1	Ca_kabuli_chr04	23076417	GG	AA	1946801372
SNP_P4_46796_23077474	NC_021163.1	Ca_kabuli_chr04	23077474	CC	TT	1946801374
SNP_P4_46797_23077479	NC_021163.1	Ca_kabuli_chr04	23077479	CC	TT	1946801376
SNP_P4_46798_23077490	NC_021163.1	Ca_kabuli_chr04	23077490	AA	GG	1946801378
SNP_P4_46799_23077505	NC_021163.1	Ca_kabuli_chr04	23077505	TT	CC	1946801380
SNP_P4_46800_23077538	NC_021163.1	Ca_kabuli_chr04	23077538	AA	GG	1946801382

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_46803_23077692	NC_021163.1	Ca_kabuli_chr04	23077692	TT	AA	1946801386
SNP_P4_46804_23077768	NC_021163.1	Ca_kabuli_chr04	23077768	TT	CC	1946801388
SNP_P4_46805_23077775	NC_021163.1	Ca_kabuli_chr04	23077775	GG	TT	1946801390
SNP_P4_46806_23077784	NC_021163.1	Ca_kabuli_chr04	23077784	CC	TT	1946801392
SNP_P4_46807_23077795	NC_021163.1	Ca_kabuli_chr04	23077795	TT	CC	1946801394
SNP_P4_46808_23077850	NC_021163.1	Ca_kabuli_chr04	23077850	GG	AA	1946801396
SNP_P4_46811_23078191	NC_021163.1	Ca_kabuli_chr04	23078191	TT	AA	1946801398
SNP_P4_46813_23078747	NC_021163.1	Ca_kabuli_chr04	23078747	GG	CC	1946801400
SNP_P4_46814_23078751	NC_021163.1	Ca_kabuli_chr04	23078751	CC	AA	1946801402
SNP_P4_46815_23079115	NC_021163.1	Ca_kabuli_chr04	23079115	AA	GG	1946801404
SNP_P4_46816_23079127	NC_021163.1	Ca_kabuli_chr04	23079127	GG	CC	1946801406
SNP_P4_46819_23097925	NC_021163.1	Ca_kabuli_chr04	23097925	CC	GG	1946801408
SNP_P4_46820_23098144	NC_021163.1	Ca_kabuli_chr04	23098144	TT	AA	1946801410
SNP_P4_46823_23098303	NC_021163.1	Ca_kabuli_chr04	23098303	CC	TT	1946801412
SNP_P4_46824_23098305	NC_021163.1	Ca_kabuli_chr04	23098305	TT	CC	1946801414
SNP_P4_46825_23098669	NC_021163.1	Ca_kabuli_chr04	23098669	GG	AA	1946801416
SNP_P4_46826_23098851	NC_021163.1	Ca_kabuli_chr04	23098851	CC	TT	1946801418
SNP_P4_46827_23099103	NC_021163.1	Ca_kabuli_chr04	23099103	CC	TT	1946801420
SNP_P4_46828_23099843	NC_021163.1	Ca_kabuli_chr04	23099843	AA	GG	1946801422
SNP_P4_46829_23099844	NC_021163.1	Ca_kabuli_chr04	23099844	TT	CC	1946801424
SNP_P4_46830_23099870	NC_021163.1	Ca_kabuli_chr04	23099870	TT	CC	1946801426
SNP_P4_46831_23100122	NC_021163.1	Ca_kabuli_chr04	23100122	AA	TT	1946801428
SNP_P4_46832_23100488	NC_021163.1	Ca_kabuli_chr04	23100488	GG	TT	1946801430
SNP_P4_46834_23100701	NC_021163.1	Ca_kabuli_chr04	23100701	GG	AA	1946801432
SNP_P4_46835_23100800	NC_021163.1	Ca_kabuli_chr04	23100800	TT	CC	1946801434
SNP_P4_46836_23100918	NC_021163.1	Ca_kabuli_chr04	23100918	TT	CC	1946801436
SNP_P4_46837_23102455	NC_021163.1	Ca_kabuli_chr04	23102455	TT	CC	1946801438
SNP_P4_46839_23106291	NC_021163.1	Ca_kabuli_chr04	23106291	TT	AA	1946801440
SNP_P4_46841_23108239	NC_021163.1	Ca_kabuli_chr04	23108239	GG	AA	1946801442
SNP_P4_46842_23108257	NC_021163.1	Ca_kabuli_chr04	23108257	CC	AA	1946801444
SNP_P4_46843_23108289	NC_021163.1	Ca_kabuli_chr04	23108289	TT	GG	1946801446
SNP_P4_46844_23108291	NC_021163.1	Ca_kabuli_chr04	23108291	GG	TT	1946801448
SNP_P4_46845_23108518	NC_021163.1	Ca_kabuli_chr04	23108518	TT	CC	1946801450
SNP_P4_46846_23108626	NC_021163.1	Ca_kabuli_chr04	23108626	TT	GG	1946801452
SNP_P4_46847_23108654	NC_021163.1	Ca_kabuli_chr04	23108654	AA	GG	1946801454
SNP_P4_46848_23108668	NC_021163.1	Ca_kabuli_chr04	23108668	TT	GG	1946801456
SNP_P4_46849_23108682	NC_021163.1	Ca_kabuli_chr04	23108682	GG	AA	1946801458
SNP_P4_46851_23108856	NC_021163.1	Ca_kabuli_chr04	23108856	CC	TT	1946801460
SNP_P4_46852_23108876	NC_021163.1	Ca_kabuli_chr04	23108876	AA	GG	1946801462
SNP_P4_46853_23109677	NC_021163.1	Ca_kabuli_chr04	23109677	GG	AA	1946801464
SNP_P4_46854_23111426	NC_021163.1	Ca_kabuli_chr04	23111426	CC	TT	1946801466

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_46856_23112383	NC_021163.1	Ca_kabuli_chr04	23112383	AA	GG	1946801470
SNP_P4_46857_23112441	NC_021163.1	Ca_kabuli_chr04	23112441	CC	TT	1946801472
SNP_P4_46858_23112474	NC_021163.1	Ca_kabuli_chr04	23112474	TT	CC	1946801474
SNP_P4_46859_23116634	NC_021163.1	Ca_kabuli_chr04	23116634	AA	CC	1946801476
SNP_P4_46860_23116702	NC_021163.1	Ca_kabuli_chr04	23116702	AA	GG	1946801478
SNP_P4_46861_23116709	NC_021163.1	Ca_kabuli_chr04	23116709	AA	TT	1946801480
SNP_P4_46862_23116714	NC_021163.1	Ca_kabuli_chr04	23116714	AA	TT	1946801482
SNP_P4_46863_23116722	NC_021163.1	Ca_kabuli_chr04	23116722	AA	GG	1946801484
SNP_P4_46864_23117668	NC_021163.1	Ca_kabuli_chr04	23117668	TT	GG	1946801486
SNP_P4_46865_23117716	NC_021163.1	Ca_kabuli_chr04	23117716	GG	AA	1946801488
SNP_P4_46866_23117736	NC_021163.1	Ca_kabuli_chr04	23117736	TT	CC	1946801490
SNP_P4_46867_23117817	NC_021163.1	Ca_kabuli_chr04	23117817	CC	TT	1946801492
SNP_P4_46868_23117836	NC_021163.1	Ca_kabuli_chr04	23117836	AA	CC	1946801494
SNP_P4_46869_23117898	NC_021163.1	Ca_kabuli_chr04	23117898	TT	CC	1946801497
SNP_P4_46870_23117930	NC_021163.1	Ca_kabuli_chr04	23117930	AA	GG	1946801499
SNP_P4_46871_23118005	NC_021163.1	Ca_kabuli_chr04	23118005	TT	AA	1946801501
SNP_P4_46872_23118097	NC_021163.1	Ca_kabuli_chr04	23118097	CC	AA	1946801503
SNP_P4_46873_23118108	NC_021163.1	Ca_kabuli_chr04	23118108	CC	TT	1946801505
SNP_P4_46874_23118429	NC_021163.1	Ca_kabuli_chr04	23118429	TT	CC	1946801507
SNP_P4_46875_23118451	NC_021163.1	Ca_kabuli_chr04	23118451	TT	CC	1946801509
SNP_P4_46876_23118499	NC_021163.1	Ca_kabuli_chr04	23118499	TT	GG	1946801511
SNP_P4_46877_23118540	NC_021163.1	Ca_kabuli_chr04	23118540	AA	TT	1946801513
SNP_P4_46878_23118829	NC_021163.1	Ca_kabuli_chr04	23118829	TT	CC	1946801515
SNP_P4_46879_23118880	NC_021163.1	Ca_kabuli_chr04	23118880	CC	TT	1946801517
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SNP_P4_46881_23118895	NC_021163.1	Ca_kabuli_chr04	23118895	CC	TT	1946801521
SNP_P4_46882_23119182	NC_021163.1	Ca_kabuli_chr04	23119182	AA	GG	1946801523
SNP_P4_46883_23119222	NC_021163.1	Ca_kabuli_chr04	23119222	AA	CC	1946801525
SNP_P4_46884_23119228	NC_021163.1	Ca_kabuli_chr04	23119228	GG	AA	1946801527
SNP_P4_46885_23119325	NC_021163.1	Ca_kabuli_chr04	23119325	AA	GG	1946801529
SNP_P4_46886_23119331	NC_021163.1	Ca_kabuli_chr04	23119331	GG	AA	1946801531
SNP_P4_46887_23119634	NC_021163.1	Ca_kabuli_chr04	23119634	GG	AA	1946801533
SNP_P4_46888_23120199	NC_021163.1	Ca_kabuli_chr04	23120199	TT	CC	1946801535
SNP_P4_46889_23120511	NC_021163.1	Ca_kabuli_chr04	23120511	CC	TT	1946801537
SNP_P4_46890_23120568	NC_021163.1	Ca_kabuli_chr04	23120568	CC	TT	1946801539
SNP_P4_46891_23121362	NC_021163.1	Ca_kabuli_chr04	23121362	TT	GG	1946801541
SNP_P4_46892_23121397	NC_021163.1	Ca_kabuli_chr04	23121397	TT	CC	1946801543
SNP_P4_46893_23121664	NC_021163.1	Ca_kabuli_chr04	23121664	GG	AA	1946801545
SNP_P4_46894_23121729	NC_021163.1	Ca_kabuli_chr04	23121729	GG	AA	1946801547
SNP_P4_46895_23122255	NC_021163.1	Ca_kabuli_chr04	23122255	AA	GG	1946801549
SNP_P4_46896_23122257	NC_021163.1	Ca_kabuli_chr04	23122257	CC	GG	1946801551

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_46897_23122269	NC_021163.1	Ca_kabuli_chr04	23122269	TT	CC	1946801553
SNP_P4_46898_23122293	NC_021163.1	Ca_kabuli_chr04	23122293	TT	AA	1946801555
SNP_P4_46899_23122298	NC_021163.1	Ca_kabuli_chr04	23122298	CC	TT	1946801557
SNP_P4_46900_23122307	NC_021163.1	Ca_kabuli_chr04	23122307	AA	CC	1946801559
SNP_P4_46901_23129521	NC_021163.1	Ca_kabuli_chr04	23129521	CC	AA	1946801561
SNP_P4_46903_23134526	NC_021163.1	Ca_kabuli_chr04	23134526	GG	AA	1946801563
SNP_P4_46904_23134751	NC_021163.1	Ca_kabuli_chr04	23134751	CC	TT	1946801565
SNP_P4_46905_23134769	NC_021163.1	Ca_kabuli_chr04	23134769	TT	CC	1946801567
SNP_P4_46907_23134813	NC_021163.1	Ca_kabuli_chr04	23134813	CC	TT	1946801569
SNP_P4_46908_23136284	NC_021163.1	Ca_kabuli_chr04	23136284	CC	TT	1946801571
SNP_P4_46909_23136300	NC_021163.1	Ca_kabuli_chr04	23136300	TT	CC	1946801573
SNP_P4_46910_23136373	NC_021163.1	Ca_kabuli_chr04	23136373	TT	CC	1946801575
SNP_P4_46911_23136376	NC_021163.1	Ca_kabuli_chr04	23136376	TT	CC	1946801577
SNP_P4_46912_23136411	NC_021163.1	Ca_kabuli_chr04	23136411	AA	CC	1946801579
SNP_P4_46913_23136431	NC_021163.1	Ca_kabuli_chr04	23136431	TT	CC	1946801581
SNP_P4_46914_23136531	NC_021163.1	Ca_kabuli_chr04	23136531	AA	GG	1946801583
SNP_P4_46915_23136545	NC_021163.1	Ca_kabuli_chr04	23136545	TT	AA	1946801585
SNP_P4_46916_23136599	NC_021163.1	Ca_kabuli_chr04	23136599	TT	CC	1946801587
SNP_P4_46917_23136631	NC_021163.1	Ca_kabuli_chr04	23136631	TT	CC	1946801589
SNP_P4_46918_23136650	NC_021163.1	Ca_kabuli_chr04	23136650	TT	CC	1946801591
SNP_P4_46919_23136655	NC_021163.1	Ca_kabuli_chr04	23136655	GG	TT	1946801593
SNP_P4_46920_23136703	NC_021163.1	Ca_kabuli_chr04	23136703	TT	CC	1946801595
SNP_P4_46921_23136740	NC_021163.1	Ca_kabuli_chr04	23136740	CC	GG	1946801596
SNP_P4_46922_23136744	NC_021163.1	Ca_kabuli_chr04	23136744	TT	CC	1946801598
SNP_P4_46923_23136755	NC_021163.1	Ca_kabuli_chr04	23136755	AA	GG	1946801600
SNP_P4_46924_23136761	NC_021163.1	Ca_kabuli_chr04	23136761	AA	GG	1946801602
SNP_P4_46925_23136774	NC_021163.1	Ca_kabuli_chr04	23136774	GG	AA	1946801604
SNP_P4_46926_23136810	NC_021163.1	Ca_kabuli_chr04	23136810	AA	GG	1946801606
SNP_P4_46927_23137518	NC_021163.1	Ca_kabuli_chr04	23137518	CC	TT	1946801608
SNP_P4_46928_23137556	NC_021163.1	Ca_kabuli_chr04	23137556	GG	AA	1946801610
SNP_P4_46929_23137603	NC_021163.1	Ca_kabuli_chr04	23137603	CC	TT	1946801612
SNP_P4_46930_23137780	NC_021163.1	Ca_kabuli_chr04	23137780	TT	CC	1946801614
SNP_P4_46931_23139541	NC_021163.1	Ca_kabuli_chr04	23139541	TT	AA	1946801616
SNP_P4_46932_23139599	NC_021163.1	Ca_kabuli_chr04	23139599	GG	CC	1946801618
SNP_P4_46933_23144481	NC_021163.1	Ca_kabuli_chr04	23144481	TT	CC	1946801620
SNP_P4_46934_23144498	NC_021163.1	Ca_kabuli_chr04	23144498	AA	GG	1946801622
SNP_P4_46935_23144500	NC_021163.1	Ca_kabuli_chr04	23144500	GG	CC	1946801624
SNP_P4_46938_23145711	NC_021163.1	Ca_kabuli_chr04	23145711	AA	GG	1946801626
SNP_P4_46940_23145956	NC_021163.1	Ca_kabuli_chr04	23145956	GG	TT	1946801628
SNP_P4_46941_23147504	NC_021163.1	Ca_kabuli_chr04	23147504	CC	GG	1946801630
SNP_P4_46942_23147799	NC_021163.1	Ca_kabuli_chr04	23147799	CC	TT	1946801631
SNP_P4_46943_23147850	NC_021163.1	Ca_kabuli_chr04	23147850	AA	CC	1946801633

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_46944_23147862	NC_021163.1	Ca_kabuli_chr04	23147862	AA	GG	1946801635
SNP_P4_46945_23148116	NC_021163.1	Ca_kabuli_chr04	23148116	GG	AA	1946801637
SNP_P4_46946_23148604	NC_021163.1	Ca_kabuli_chr04	23148604	CC	TT	1946801639
SNP_P4_46947_23165964	NC_021163.1	Ca_kabuli_chr04	23165964	AA	GG	1946801641
SNP_P4_46948_23188687	NC_021163.1	Ca_kabuli_chr04	23188687	CC	TT	1946801643
SNP_P4_46949_23191666	NC_021163.1	Ca_kabuli_chr04	23191666	CC	AA	1946801645
SNP_P4_46951_23200546	NC_021163.1	Ca_kabuli_chr04	23200546	AA	GG	1946801647
SNP_P4_46952_23206093	NC_021163.1	Ca_kabuli_chr04	23206093	AA	TT	1946801649
SNP_P4_46955_23228399	NC_021163.1	Ca_kabuli_chr04	23228399	CC	TT	1946801651
SNP_P4_46956_23251609	NC_021163.1	Ca_kabuli_chr04	23251609	AA	GG	1946801653
SNP_P4_46958_23310260	NC_021163.1	Ca_kabuli_chr04	23310260	AA	TT	1946801655
SNP_P4_46959_23310297	NC_021163.1	Ca_kabuli_chr04	23310297	CC	AA	1946801657
SNP_P4_46961_23343534	NC_021163.1	Ca_kabuli_chr04	23343534	TT	GG	1946801659
SNP_P4_46962_23361358	NC_021163.1	Ca_kabuli_chr04	23361358	TT	CC	1946801661
SNP_P4_46963_23361430	NC_021163.1	Ca_kabuli_chr04	23361430	TT	GG	1946801664
SNP_P4_46964_23361484	NC_021163.1	Ca_kabuli_chr04	23361484	TT	CC	1946801666
SNP_P4_46965_23361546	NC_021163.1	Ca_kabuli_chr04	23361546	TT	CC	1946801668
SNP_P4_46966_23361800	NC_021163.1	Ca_kabuli_chr04	23361800	CC	TT	1946801670
SNP_P4_46968_23421217	NC_021163.1	Ca_kabuli_chr04	23421217	TT	GG	1946801671
SNP_P4_46969_23421483	NC_021163.1	Ca_kabuli_chr04	23421483	AA	CC	1946801673
SNP_P4_46970_23421703	NC_021163.1	Ca_kabuli_chr04	23421703	GG	AA	1946801675
SNP_P4_46971_23421711	NC_021163.1	Ca_kabuli_chr04	23421711	CC	AA	1946801677
SNP_P4_46972_23421798	NC_021163.1	Ca_kabuli_chr04	23421798	AA	GG	1946801679
SNP_P4_46973_23421800	NC_021163.1	Ca_kabuli_chr04	23421800	AA	GG	1946801681
SNP_P4_46974_23421865	NC_021163.1	Ca_kabuli_chr04	23421865	TT	CC	1946801683
SNP_P4_46975_23421922	NC_021163.1	Ca_kabuli_chr04	23421922	TT	CC	1946801685
SNP_P4_46976_23422256	NC_021163.1	Ca_kabuli_chr04	23422256	AA	GG	1946801687
SNP_P4_46977_23422257	NC_021163.1	Ca_kabuli_chr04	23422257	GG	AA	1946801689
SNP_P4_46980_23462469	NC_021163.1	Ca_kabuli_chr04	23462469	GG	TT	1946801691
SNP_P4_46981_23470582	NC_021163.1	Ca_kabuli_chr04	23470582	TT	CC	1946801693
SNP_P4_46982_23470592	NC_021163.1	Ca_kabuli_chr04	23470592	TT	CC	1946801695
SNP_P4_46983_23470894	NC_021163.1	Ca_kabuli_chr04	23470894	TT	CC	1946801697
SNP_P4_46985_23503614	NC_021163.1	Ca_kabuli_chr04	23503614	TT	CC	1946801700
SNP_P4_46986_23508620	NC_021163.1	Ca_kabuli_chr04	23508620	TT	CC	1946801702
SNP_P4_46987_23508654	NC_021163.1	Ca_kabuli_chr04	23508654	TT	CC	1946801704
SNP_P4_46988_23508740	NC_021163.1	Ca_kabuli_chr04	23508740	TT	CC	1946801706
SNP_P4_46989_23508757	NC_021163.1	Ca_kabuli_chr04	23508757	CC	TT	1946801708
SNP_P4_46991_23535087	NC_021163.1	Ca_kabuli_chr04	23535087	TT	CC	1946801710
SNP_P4_46992_23535094	NC_021163.1	Ca_kabuli_chr04	23535094	CC	AA	1946801712
SNP_P4_46993_23535100	NC_021163.1	Ca_kabuli_chr04	23535100	GG	TT	1946801714
SNP_P4_46994_23535274	NC_021163.1	Ca_kabuli_chr04	23535274	AA	GG	1946801716
SNP_P4_46995_23535312	NC_021163.1	Ca_kabuli_chr04	23535312	CC	TT	1946801718

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_46997_23536273	NC_021163.1	Ca_kabuli_chr04	23536273	TT	CC	1946801722
SNP_P4_46998_23536533	NC_021163.1	Ca_kabuli_chr04	23536533	GG	CC	1946801724
SNP_P4_46999_23536548	NC_021163.1	Ca_kabuli_chr04	23536548	GG	AA	1946801726
SNP_P4_47000_23538359	NC_021163.1	Ca_kabuli_chr04	23538359	TT	AA	1946801728
SNP_P4_47001_23538470	NC_021163.1	Ca_kabuli_chr04	23538470	TT	CC	1946801730
SNP_P4_47002_23543471	NC_021163.1	Ca_kabuli_chr04	23543471	TT	GG	1946801732
SNP_P4_47003_23543474	NC_021163.1	Ca_kabuli_chr04	23543474	AA	TT	1946801734
SNP_P4_47004_23545375	NC_021163.1	Ca_kabuli_chr04	23545375	TT	GG	1946801736
SNP_P4_47005_23547379	NC_021163.1	Ca_kabuli_chr04	23547379	CC	TT	1946801738
SNP_P4_47006_23570640	NC_021163.1	Ca_kabuli_chr04	23570640	AA	CC	1946801740
SNP_P4_47007_23573297	NC_021163.1	Ca_kabuli_chr04	23573297	AA	GG	1946801742
SNP_P4_47009_23576665	NC_021163.1	Ca_kabuli_chr04	23576665	TT	CC	1946801744
SNP_P4_47010_23585669	NC_021163.1	Ca_kabuli_chr04	23585669	TT	AA	1946801746
SNP_P4_47011_23585727	NC_021163.1	Ca_kabuli_chr04	23585727	TT	CC	1946801748
SNP_P4_47012_23587183	NC_021163.1	Ca_kabuli_chr04	23587183	GG	CC	1946801750
SNP_P4_47013_23590151	NC_021163.1	Ca_kabuli_chr04	23590151	CC	AA	1946801752
SNP_P4_47014_23640829	NC_021163.1	Ca_kabuli_chr04	23640829	GG	AA	1946801754
SNP_P4_47015_23664000	NC_021163.1	Ca_kabuli_chr04	23664000	TT	CC	1946801757
SNP_P4_47016_23665071	NC_021163.1	Ca_kabuli_chr04	23665071	CC	AA	1946801759
SNP_P4_47017_23694347	NC_021163.1	Ca_kabuli_chr04	23694347	TT	GG	1946801761
SNP_P4_47018_23694349	NC_021163.1	Ca_kabuli_chr04	23694349	AA	GG	1946801763
SNP_P4_47019_23694362	NC_021163.1	Ca_kabuli_chr04	23694362	CC	AA	1946801765
SNP_P4_47020_23694367	NC_021163.1	Ca_kabuli_chr04	23694367	GG	AA	1946801767
SNP_P4_47021_23697734	NC_021163.1	Ca_kabuli_chr04	23697734	AA	GG	1946801769
SNP_P4_47022_23699517	NC_021163.1	Ca_kabuli_chr04	23699517	TT	GG	1946801771
SNP_P4_47023_23699525	NC_021163.1	Ca_kabuli_chr04	23699525	AA	TT	1946801773
SNP_P4_47024_23699628	NC_021163.1	Ca_kabuli_chr04	23699628	GG	CC	1946801775
SNP_P4_47025_23699629	NC_021163.1	Ca_kabuli_chr04	23699629	TT	CC	1946801777
SNP_P4_47026_23699658	NC_021163.1	Ca_kabuli_chr04	23699658	AA	GG	1946801779
SNP_P4_47027_23699807	NC_021163.1	Ca_kabuli_chr04	23699807	CC	TT	1946801781
SNP_P4_47028_23701480	NC_021163.1	Ca_kabuli_chr04	23701480	CC	AA	1946801783
SNP_P4_47029_23711979	NC_021163.1	Ca_kabuli_chr04	23711979	GG	AA	1946801785
SNP_P4_47030_23717030	NC_021163.1	Ca_kabuli_chr04	23717030	GG	AA	1946801787
SNP_P4_47031_23717138	NC_021163.1	Ca_kabuli_chr04	23717138	GG	AA	1946801789
SNP_P4_47032_23720323	NC_021163.1	Ca_kabuli_chr04	23720323	GG	AA	1946801791
SNP_P4_47033_23720338	NC_021163.1	Ca_kabuli_chr04	23720338	AA	GG	1946801793
SNP_P4_47034_23720360	NC_021163.1	Ca_kabuli_chr04	23720360	TT	CC	1946801795
SNP_P4_47035_23720625	NC_021163.1	Ca_kabuli_chr04	23720625	CC	TT	1946801797
SNP_P4_47036_23720873	NC_021163.1	Ca_kabuli_chr04	23720873	AA	GG	1946801799
SNP_P4_47039_23757424	NC_021163.1	Ca_kabuli_chr04	23757424	TT	AA	1946801801
SNP_P4_47040_23758168	NC_021163.1	Ca_kabuli_chr04	23758168	AA	GG	1946801803

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_47043_23760468	NC_021163.1	Ca_kabuli_chr04	23760468	TT	GG	1946801807
SNP_P4_47044_23760470	NC_021163.1	Ca_kabuli_chr04	23760470	AA	TT	1946801809
SNP_P4_47046_23765275	NC_021163.1	Ca_kabuli_chr04	23765275	TT	AA	1946801811
SNP_P4_47047_23771051	NC_021163.1	Ca_kabuli_chr04	23771051	TT	AA	1946801813
SNP_P4_47048_23788124	NC_021163.1	Ca_kabuli_chr04	23788124	AA	TT	1946801815
SNP_P4_47049_23806777	NC_021163.1	Ca_kabuli_chr04	23806777	CC	AA	1946801817
SNP_P4_47050_23806778	NC_021163.1	Ca_kabuli_chr04	23806778	AA	TT	1946801819
SNP_P4_47052_23824759	NC_021163.1	Ca_kabuli_chr04	23824759	AA	TT	1946801821
SNP_P4_47053_23824761	NC_021163.1	Ca_kabuli_chr04	23824761	GG	CC	1946801823
SNP_P4_47054_23827904	NC_021163.1	Ca_kabuli_chr04	23827904	CC	TT	1946801825
SNP_P4_47055_23827913	NC_021163.1	Ca_kabuli_chr04	23827913	TT	GG	1946801827
SNP_P4_47056_23828006	NC_021163.1	Ca_kabuli_chr04	23828006	CC	TT	1946801829
SNP_P4_47057_23828033	NC_021163.1	Ca_kabuli_chr04	23828033	AA	TT	1946801831
SNP_P4_47058_23828135	NC_021163.1	Ca_kabuli_chr04	23828135	GG	AA	1946801833
SNP_P4_47059_23828187	NC_021163.1	Ca_kabuli_chr04	23828187	AA	TT	1946801835
SNP_P4_47060_23828193	NC_021163.1	Ca_kabuli_chr04	23828193	GG	AA	1946801838
SNP_P4_47061_23828307	NC_021163.1	Ca_kabuli_chr04	23828307	CC	TT	1946801840
SNP_P4_47062_23828330	NC_021163.1	Ca_kabuli_chr04	23828330	CC	TT	1946801842
SNP_P4_47063_23828353	NC_021163.1	Ca_kabuli_chr04	23828353	AA	CC	1946801844
SNP_P4_47064_23856541	NC_021163.1	Ca_kabuli_chr04	23856541	TT	AA	1946801846
SNP_P4_47067_23941952	NC_021163.1	Ca_kabuli_chr04	23941952	AA	GG	1946801848
SNP_P4_47068_23962927	NC_021163.1	Ca_kabuli_chr04	23962927	AA	TT	1946801850
SNP_P4_47069_23962929	NC_021163.1	Ca_kabuli_chr04	23962929	AA	CC	1946801852
SNP_P4_47070_23975452	NC_021163.1	Ca_kabuli_chr04	23975452	GG	AA	1946801854
SNP_P4_47071_23998357	NC_021163.1	Ca_kabuli_chr04	23998357	TT	CC	1946801857
SNP_P4_47072_24021161	NC_021163.1	Ca_kabuli_chr04	24021161	TT	CC	1946801859
SNP_P4_47073_24021662	NC_021163.1	Ca_kabuli_chr04	24021662	GG	TT	1946801861
SNP_P4_47074_24023395	NC_021163.1	Ca_kabuli_chr04	24023395	CC	TT	1946801863
SNP_P4_47075_24034321	NC_021163.1	Ca_kabuli_chr04	24034321	CC	TT	1946801865
SNP_P4_47076_24063617	NC_021163.1	Ca_kabuli_chr04	24063617	TT	CC	1946801867
SNP_P4_47077_24063619	NC_021163.1	Ca_kabuli_chr04	24063619	AA	GG	1946801869
SNP_P4_47078_24063635	NC_021163.1	Ca_kabuli_chr04	24063635	CC	TT	1946801871
SNP_P4_47079_24063970	NC_021163.1	Ca_kabuli_chr04	24063970	CC	TT	1946801873
SNP_P4_47080_24064239	NC_021163.1	Ca_kabuli_chr04	24064239	CC	TT	1946801875
SNP_P4_47081_24064252	NC_021163.1	Ca_kabuli_chr04	24064252	CC	AA	1946801877
SNP_P4_47082_24064715	NC_021163.1	Ca_kabuli_chr04	24064715	AA	GG	1946801879
SNP_P4_47083_24064727	NC_021163.1	Ca_kabuli_chr04	24064727	AA	CC	1946801881
SNP_P4_47084_24096017	NC_021163.1	Ca_kabuli_chr04	24096017	TT	CC	1946801884
SNP_P4_47085_24096072	NC_021163.1	Ca_kabuli_chr04	24096072	AA	GG	1946801886
SNP_P4_47086_24104266	NC_021163.1	Ca_kabuli_chr04	24104266	GG	AA	1946801888
SNP_P4_47087_24115582	NC_021163.1	Ca_kabuli_chr04	24115582	CC	TT	1946801890

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_47090_24143322	NC_021163.1	Ca_kabuli_chr04	24143322	GG	AA	1946801894
SNP_P4_47091_24147253	NC_021163.1	Ca_kabuli_chr04	24147253	CC	TT	1946801896
SNP_P4_47093_24148223	NC_021163.1	Ca_kabuli_chr04	24148223	TT	AA	1946801899
SNP_P4_47094_24160330	NC_021163.1	Ca_kabuli_chr04	24160330	AA	GG	1946801901
SNP_P4_47095_24161705	NC_021163.1	Ca_kabuli_chr04	24161705	TT	CC	1946801903
SNP_P4_47096_24166046	NC_021163.1	Ca_kabuli_chr04	24166046	CC	TT	1946801905
SNP_P4_47097_24167739	NC_021163.1	Ca_kabuli_chr04	24167739	CC	TT	1946801907
SNP_P4_47098_24178369	NC_021163.1	Ca_kabuli_chr04	24178369	TT	AA	1946801909
SNP_P4_47099_24180061	NC_021163.1	Ca_kabuli_chr04	24180061	TT	GG	1946801911
SNP_P4_47100_24180105	NC_021163.1	Ca_kabuli_chr04	24180105	AA	GG	1946801913
SNP_P4_47101_24212708	NC_021163.1	Ca_kabuli_chr04	24212708	CC	TT	1946801915
SNP_P4_47102_24215995	NC_021163.1	Ca_kabuli_chr04	24215995	AA	TT	1946801917
SNP_P4_47104_24230971	NC_021163.1	Ca_kabuli_chr04	24230971	GG	AA	1946801919
SNP_P4_47105_24231338	NC_021163.1	Ca_kabuli_chr04	24231338	AA	GG	1946801921
SNP_P4_47106_24231367	NC_021163.1	Ca_kabuli_chr04	24231367	GG	AA	1946801923
SNP_P4_47107_24231389	NC_021163.1	Ca_kabuli_chr04	24231389	TT	CC	1946801925
SNP_P4_47108_24231738	NC_021163.1	Ca_kabuli_chr04	24231738	CC	TT	1946801927
SNP_P4_47109_24236706	NC_021163.1	Ca_kabuli_chr04	24236706	GG	AA	1946801929
SNP_P4_47110_24239224	NC_021163.1	Ca_kabuli_chr04	24239224	CC	TT	1946801931
SNP_P4_47111_24239512	NC_021163.1	Ca_kabuli_chr04	24239512	AA	CC	1946801933
SNP_P4_47114_24326929	NC_021163.1	Ca_kabuli_chr04	24326929	AA	GG	1946801935
SNP_P4_47115_24344420	NC_021163.1	Ca_kabuli_chr04	24344420	GG	AA	1946801937
SNP_P4_47116_24347838	NC_021163.1	Ca_kabuli_chr04	24347838	AA	TT	1946801939
SNP_P4_47117_24347995	NC_021163.1	Ca_kabuli_chr04	24347995	CC	TT	1946801941
SNP_P4_47118_24350107	NC_021163.1	Ca_kabuli_chr04	24350107	TT	CC	1946801943
SNP_P4_47119_24350109	NC_021163.1	Ca_kabuli_chr04	24350109	TT	AA	1946801945
SNP_P4_47120_24350112	NC_021163.1	Ca_kabuli_chr04	24350112	TT	CC	1946801947
SNP_P4_47121_24350118	NC_021163.1	Ca_kabuli_chr04	24350118	GG	AA	1946801950
SNP_P4_47122_24350136	NC_021163.1	Ca_kabuli_chr04	24350136	TT	CC	1946801952
SNP_P4_47123_24350213	NC_021163.1	Ca_kabuli_chr04	24350213	TT	CC	1946801954
SNP_P4_47124_24350219	NC_021163.1	Ca_kabuli_chr04	24350219	TT	CC	1946801956
SNP_P4_47125_24356007	NC_021163.1	Ca_kabuli_chr04	24356007	AA	GG	1946801959
SNP_P4_47126_24356008	NC_021163.1	Ca_kabuli_chr04	24356008	TT	GG	1946801961
SNP_P4_47128_24356940	NC_021163.1	Ca_kabuli_chr04	24356940	AA	GG	1946801963
SNP_P4_47129_24356954	NC_021163.1	Ca_kabuli_chr04	24356954	TT	GG	1946801965
SNP_P4_47130_24357039	NC_021163.1	Ca_kabuli_chr04	24357039	TT	CC	1946801967
SNP_P4_47131_24357057	NC_021163.1	Ca_kabuli_chr04	24357057	TT	GG	1946801969
SNP_P4_47132_24357070	NC_021163.1	Ca_kabuli_chr04	24357070	TT	GG	1946801971
SNP_P4_47135_24379715	NC_021163.1	Ca_kabuli_chr04	24379715	GG	AA	1946801973
SNP_P4_47136_24384418	NC_021163.1	Ca_kabuli_chr04	24384418	AA	GG	1946801976
SNP_P4_47137_24402508	NC_021163.1	Ca_kabuli_chr04	24402508	TT	CC	1946801978

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_47139_24407510	NC_021163.1	Ca_kabuli_chr04	24407510	AA	TT	1946801982
SNP_P4_47140_24419135	NC_021163.1	Ca_kabuli_chr04	24419135	AA	CC	1946801984
SNP_P4_47141_24420729	NC_021163.1	Ca_kabuli_chr04	24420729	CC	TT	1946801986
SNP_P4_47144_24428566	NC_021163.1	Ca_kabuli_chr04	24428566	GG	AA	1946801988
SNP_P4_47145_24428600	NC_021163.1	Ca_kabuli_chr04	24428600	TT	CC	1946801990
SNP_P4_47146_24430273	NC_021163.1	Ca_kabuli_chr04	24430273	AA	GG	1946801992
SNP_P4_47147_24430460	NC_021163.1	Ca_kabuli_chr04	24430460	AA	GG	1946801994
SNP_P4_47148_24430468	NC_021163.1	Ca_kabuli_chr04	24430468	AA	GG	1946801996
SNP_P4_47149_24430480	NC_021163.1	Ca_kabuli_chr04	24430480	GG	AA	1946801998
SNP_P4_47150_24430523	NC_021163.1	Ca_kabuli_chr04	24430523	TT	CC	1946802000
SNP_P4_47151_24430540	NC_021163.1	Ca_kabuli_chr04	24430540	TT	CC	1946802002
SNP_P4_47152_24434423	NC_021163.1	Ca_kabuli_chr04	24434423	GG	TT	1946802004
SNP_P4_47153_24435997	NC_021163.1	Ca_kabuli_chr04	24435997	TT	AA	1946802006
SNP_P4_47154_24437737	NC_021163.1	Ca_kabuli_chr04	24437737	TT	CC	1946802008
SNP_P4_47156_24438228	NC_021163.1	Ca_kabuli_chr04	24438228	TT	CC	1946802011
SNP_P4_47157_24438231	NC_021163.1	Ca_kabuli_chr04	24438231	TT	CC	1946802013
SNP_P4_47158_24438244	NC_021163.1	Ca_kabuli_chr04	24438244	CC	TT	1946802015
SNP_P4_47159_24449305	NC_021163.1	Ca_kabuli_chr04	24449305	AA	CC	1946802017
SNP_P4_47160_24453336	NC_021163.1	Ca_kabuli_chr04	24453336	GG	AA	1946802019
SNP_P4_47161_24453377	NC_021163.1	Ca_kabuli_chr04	24453377	TT	GG	1946802021
SNP_P4_47162_24453397	NC_021163.1	Ca_kabuli_chr04	24453397	AA	CC	1946802023
SNP_P4_47163_24453419	NC_021163.1	Ca_kabuli_chr04	24453419	AA	TT	1946802025
SNP_P4_47164_24453421	NC_021163.1	Ca_kabuli_chr04	24453421	AA	CC	1946802028
SNP_P4_47165_24453422	NC_021163.1	Ca_kabuli_chr04	24453422	AA	GG	1946802030
SNP_P4_47166_24453433	NC_021163.1	Ca_kabuli_chr04	24453433	AA	TT	1946802032
SNP_P4_47167_24453739	NC_021163.1	Ca_kabuli_chr04	24453739	TT	AA	1946802034
SNP_P4_47168_24453750	NC_021163.1	Ca_kabuli_chr04	24453750	AA	GG	1946802036
SNP_P4_47169_24453752	NC_021163.1	Ca_kabuli_chr04	24453752	AA	TT	1946802038
SNP_P4_47170_24460050	NC_021163.1	Ca_kabuli_chr04	24460050	TT	GG	1946802040
SNP_P4_47171_24460918	NC_021163.1	Ca_kabuli_chr04	24460918	CC	TT	1946802042
SNP_P4_47172_24474342	NC_021163.1	Ca_kabuli_chr04	24474342	TT	GG	1946802044
SNP_P4_47173_24476083	NC_021163.1	Ca_kabuli_chr04	24476083	AA	GG	1946802046
SNP_P4_47174_24478364	NC_021163.1	Ca_kabuli_chr04	24478364	GG	AA	1946802047
SNP_P4_47175_24478431	NC_021163.1	Ca_kabuli_chr04	24478431	TT	GG	1946802048
SNP_P4_47176_24478677	NC_021163.1	Ca_kabuli_chr04	24478677	AA	GG	1946802049
SNP_P4_47177_24478812	NC_021163.1	Ca_kabuli_chr04	24478812	AA	GG	1946802050
SNP_P4_47178_24478837	NC_021163.1	Ca_kabuli_chr04	24478837	TT	CC	1946802051
SNP_P4_47179_24478841	NC_021163.1	Ca_kabuli_chr04	24478841	AA	CC	1946802052
SNP_P4_47180_24478931	NC_021163.1	Ca_kabuli_chr04	24478931	GG	CC	1946802054
SNP_P4_47183_24479137	NC_021163.1	Ca_kabuli_chr04	24479137	CC	TT	1946802056
SNP_P4_47184_24479172	NC_021163.1	Ca_kabuli_chr04	24479172	CC	TT	1946802058

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_47186_24479205	NC_021163.1	Ca_kabuli_chr04	24479205	GG	AA	1946802062
SNP_P4_47187_24479225	NC_021163.1	Ca_kabuli_chr04	24479225	CC	AA	1946802064
SNP_P4_47188_24479248	NC_021163.1	Ca_kabuli_chr04	24479248	TT	AA	1946802066
SNP_P4_47189_24479308	NC_021163.1	Ca_kabuli_chr04	24479308	GG	AA	1946802068
SNP_P4_47190_24479334	NC_021163.1	Ca_kabuli_chr04	24479334	CC	TT	1946802071
SNP_P4_47191_24479348	NC_021163.1	Ca_kabuli_chr04	24479348	CC	GG	1946802073
SNP_P4_47192_24479443	NC_021163.1	Ca_kabuli_chr04	24479443	TT	CC	1946802075
SNP_P4_47193_24482474	NC_021163.1	Ca_kabuli_chr04	24482474	CC	TT	1946802077
SNP_P4_47194_24482476	NC_021163.1	Ca_kabuli_chr04	24482476	AA	GG	1946802079
SNP_P4_47195_24483846	NC_021163.1	Ca_kabuli_chr04	24483846	CC	AA	1946802081
SNP_P4_47196_24484708	NC_021163.1	Ca_kabuli_chr04	24484708	GG	AA	1946802083
SNP_P4_47198_24488871	NC_021163.1	Ca_kabuli_chr04	24488871	CC	AA	1946802085
SNP_P4_47199_24495118	NC_021163.1	Ca_kabuli_chr04	24495118	TT	CC	1946802087
SNP_P4_47200_24496195	NC_021163.1	Ca_kabuli_chr04	24496195	TT	AA	1946802089
SNP_P4_47201_24503506	NC_021163.1	Ca_kabuli_chr04	24503506	GG	AA	1946802091
SNP_P4_47202_24517353	NC_021163.1	Ca_kabuli_chr04	24517353	AA	GG	1946802093
SNP_P4_47203_24523555	NC_021163.1	Ca_kabuli_chr04	24523555	GG	AA	1946802095
SNP_P4_47205_24538326	NC_021163.1	Ca_kabuli_chr04	24538326	TT	AA	1946802097
SNP_P4_47206_24547807	NC_021163.1	Ca_kabuli_chr04	24547807	CC	GG	1946802099
SNP_P4_47207_24550771	NC_021163.1	Ca_kabuli_chr04	24550771	TT	CC	1946802101
SNP_P4_47209_24554148	NC_021163.1	Ca_kabuli_chr04	24554148	GG	AA	1946802103
SNP_P4_47211_24556522	NC_021163.1	Ca_kabuli_chr04	24556522	CC	AA	1946802105
SNP_P4_47212_24556523	NC_021163.1	Ca_kabuli_chr04	24556523	CC	AA	1946802107
SNP_P4_47213_24556535	NC_021163.1	Ca_kabuli_chr04	24556535	CC	TT	1946802109
SNP_P4_47214_24562940	NC_021163.1	Ca_kabuli_chr04	24562940	CC	TT	1946802112
SNP_P4_47215_24565614	NC_021163.1	Ca_kabuli_chr04	24565614	AA	GG	1946802114
SNP_P4_47216_24565633	NC_021163.1	Ca_kabuli_chr04	24565633	TT	CC	1946802116
SNP_P4_47217_24565636	NC_021163.1	Ca_kabuli_chr04	24565636	AA	CC	1946802118
SNP_P4_47218_24565894	NC_021163.1	Ca_kabuli_chr04	24565894	CC	TT	1946802120
SNP_P4_47219_24566024	NC_021163.1	Ca_kabuli_chr04	24566024	AA	TT	1946802122
SNP_P4_47220_24566377	NC_021163.1	Ca_kabuli_chr04	24566377	AA	TT	1946802123
SNP_P4_47221_24566880	NC_021163.1	Ca_kabuli_chr04	24566880	TT	CC	1946802125
SNP_P4_47222_24568261	NC_021163.1	Ca_kabuli_chr04	24568261	GG	TT	1946802127
SNP_P4_47223_24572781	NC_021163.1	Ca_kabuli_chr04	24572781	GG	AA	1946802129
SNP_P4_47224_24572817	NC_021163.1	Ca_kabuli_chr04	24572817	GG	AA	1946802131
SNP_P4_47225_24572837	NC_021163.1	Ca_kabuli_chr04	24572837	TT	GG	1946802133
SNP_P4_47226_24576997	NC_021163.1	Ca_kabuli_chr04	24576997	AA	TT	1946802135
SNP_P4_47228_24581610	NC_021163.1	Ca_kabuli_chr04	24581610	GG	AA	1946802137
SNP_P4_47229_24581822	NC_021163.1	Ca_kabuli_chr04	24581822	AA	GG	1946802139
SNP_P4_47230_24581967	NC_021163.1	Ca_kabuli_chr04	24581967	CC	AA	1946802141
SNP_P4_47231_24584157	NC_021163.1	Ca_kabuli_chr04	24584157	GG	TT	1946802143

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_47233_24602568	NC_021163.1	Ca_kabuli_chr04	24602568	GG	TT	1946802147
SNP_P4_47234_24602919	NC_021163.1	Ca_kabuli_chr04	24602919	CC	TT	1946802149
SNP_P4_47239_24628556	NC_021163.1	Ca_kabuli_chr04	24628556	CC	TT	1946802151
SNP_P4_47240_24628721	NC_021163.1	Ca_kabuli_chr04	24628721	TT	GG	1946802153
SNP_P4_47241_24628729	NC_021163.1	Ca_kabuli_chr04	24628729	AA	TT	1946802155
SNP_P4_47242_24640733	NC_021163.1	Ca_kabuli_chr04	24640733	AA	GG	1946802156
SNP_P4_47243_24642023	NC_021163.1	Ca_kabuli_chr04	24642023	CC	TT	1946802158
SNP_P4_47244_24666771	NC_021163.1	Ca_kabuli_chr04	24666771	CC	TT	1946802160
SNP_P4_47245_24666997	NC_021163.1	Ca_kabuli_chr04	24666997	CC	AA	1946802162
SNP_P4_47246_24676058	NC_021163.1	Ca_kabuli_chr04	24676058	CC	TT	1946802164
SNP_P4_47248_24685620	NC_021163.1	Ca_kabuli_chr04	24685620	AA	GG	1946802166
SNP_P4_47249_24687605	NC_021163.1	Ca_kabuli_chr04	24687605	CC	TT	1946802168
SNP_P4_47250_24689149	NC_021163.1	Ca_kabuli_chr04	24689149	TT	AA	1946802170
SNP_P4_47251_24690522	NC_021163.1	Ca_kabuli_chr04	24690522	TT	CC	1946802172
SNP_P4_47252_24693389	NC_021163.1	Ca_kabuli_chr04	24693389	CC	AA	1946802174
SNP_P4_47253_24698498	NC_021163.1	Ca_kabuli_chr04	24698498	CC	GG	1946802176
SNP_P4_47254_24704170	NC_021163.1	Ca_kabuli_chr04	24704170	CC	AA	1946802178
SNP_P4_47255_24722350	NC_021163.1	Ca_kabuli_chr04	24722350	GG	TT	1946802180
SNP_P4_47256_24722520	NC_021163.1	Ca_kabuli_chr04	24722520	TT	CC	1946802182
SNP_P4_47257_24728576	NC_021163.1	Ca_kabuli_chr04	24728576	GG	AA	1946802184
SNP_P4_47259_24738940	NC_021163.1	Ca_kabuli_chr04	24738940	AA	TT	1946802186
SNP_P4_47260_24738944	NC_021163.1	Ca_kabuli_chr04	24738944	CC	TT	1946802188
SNP_P4_47261_24739982	NC_021163.1	Ca_kabuli_chr04	24739982	TT	CC	1946802190
SNP_P4_47263_24750568	NC_021163.1	Ca_kabuli_chr04	24750568	TT	AA	1946802192
SNP_P4_47264_24756545	NC_021163.1	Ca_kabuli_chr04	24756545	CC	TT	1946802194
SNP_P4_47265_24760058	NC_021163.1	Ca_kabuli_chr04	24760058	AA	GG	1946802196
SNP_P4_47266_24760113	NC_021163.1	Ca_kabuli_chr04	24760113	AA	TT	1946802198
SNP_P4_47267_24760391	NC_021163.1	Ca_kabuli_chr04	24760391	TT	GG	1946802199
SNP_P4_47268_24760394	NC_021163.1	Ca_kabuli_chr04	24760394	TT	CC	1946802201
SNP_P4_47269_24760416	NC_021163.1	Ca_kabuli_chr04	24760416	TT	CC	1946802203
SNP_P4_47270_24760417	NC_021163.1	Ca_kabuli_chr04	24760417	GG	AA	1946802205
SNP_P4_47271_24760491	NC_021163.1	Ca_kabuli_chr04	24760491	GG	AA	1946802207
SNP_P4_47272_24760505	NC_021163.1	Ca_kabuli_chr04	24760505	AA	CC	1946802209
SNP_P4_47273_24777146	NC_021163.1	Ca_kabuli_chr04	24777146	TT	CC	1946802211
SNP_P4_47274_24777531	NC_021163.1	Ca_kabuli_chr04	24777531	TT	CC	1946802213
SNP_P4_47275_24777563	NC_021163.1	Ca_kabuli_chr04	24777563	AA	GG	1946802215
SNP_P4_47277_24786415	NC_021163.1	Ca_kabuli_chr04	24786415	CC	TT	1946802217
SNP_P4_47278_24786799	NC_021163.1	Ca_kabuli_chr04	24786799	AA	GG	1946802219
SNP_P4_47279_24786856	NC_021163.1	Ca_kabuli_chr04	24786856	AA	GG	1946802221
SNP_P4_47280_24786866	NC_021163.1	Ca_kabuli_chr04	24786866	TT	CC	1946802223
SNP_P4_47281_24786867	NC_021163.1	Ca_kabuli_chr04	24786867	GG	AA	1946802225

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_47284_24793011	NC_021163.1	Ca_kabuli_chr04	24793011	GG	TT	1946802230
SNP_P4_47285_24793029	NC_021163.1	Ca_kabuli_chr04	24793029	CC	TT	1946802232
SNP_P4_47286_24796048	NC_021163.1	Ca_kabuli_chr04	24796048	CC	AA	1946802234
SNP_P4_47287_24798170	NC_021163.1	Ca_kabuli_chr04	24798170	AA	GG	1946802236
SNP_P4_47288_24798437	NC_021163.1	Ca_kabuli_chr04	24798437	TT	GG	1946802238
SNP_P4_47289_24800422	NC_021163.1	Ca_kabuli_chr04	24800422	CC	TT	1946802240
SNP_P4_47290_24809140	NC_021163.1	Ca_kabuli_chr04	24809140	AA	GG	1946802242
SNP_P4_47291_24810431	NC_021163.1	Ca_kabuli_chr04	24810431	GG	AA	1946802244
SNP_P4_47293_24827196	NC_021163.1	Ca_kabuli_chr04	24827196	TT	GG	1946802246
SNP_P4_47294_24827949	NC_021163.1	Ca_kabuli_chr04	24827949	CC	AA	1946802248
SNP_P4_47295_24828178	NC_021163.1	Ca_kabuli_chr04	24828178	AA	GG	1946802250
SNP_P4_47296_24828181	NC_021163.1	Ca_kabuli_chr04	24828181	TT	GG	1946802252
SNP_P4_47297_24828207	NC_021163.1	Ca_kabuli_chr04	24828207	TT	CC	1946802254
SNP_P4_47299_24840434	NC_021163.1	Ca_kabuli_chr04	24840434	GG	TT	1946802256
SNP_P4_47300_24843322	NC_021163.1	Ca_kabuli_chr04	24843322	AA	GG	1946802258
SNP_P4_47301_24843393	NC_021163.1	Ca_kabuli_chr04	24843393	TT	CC	1946802261
SNP_P4_47302_24847689	NC_021163.1	Ca_kabuli_chr04	24847689	GG	AA	1946802263
SNP_P4_47304_24871715	NC_021163.1	Ca_kabuli_chr04	24871715	CC	AA	1946802265
SNP_P4_47305_24877245	NC_021163.1	Ca_kabuli_chr04	24877245	AA	CC	1946802267
SNP_P4_47306_24877472	NC_021163.1	Ca_kabuli_chr04	24877472	CC	AA	1946802269
SNP_P4_47307_24877556	NC_021163.1	Ca_kabuli_chr04	24877556	AA	CC	1946802271
SNP_P4_47308_24877575	NC_021163.1	Ca_kabuli_chr04	24877575	AA	GG	1946802273
SNP_P4_47309_24877584	NC_021163.1	Ca_kabuli_chr04	24877584	AA	GG	1946802275
SNP_P4_47310_24877619	NC_021163.1	Ca_kabuli_chr04	24877619	TT	CC	1946802277
SNP_P4_47311_24877904	NC_021163.1	Ca_kabuli_chr04	24877904	CC	TT	1946802279
SNP_P4_47312_24877963	NC_021163.1	Ca_kabuli_chr04	24877963	GG	AA	1946802281
SNP_P4_47313_24888479	NC_021163.1	Ca_kabuli_chr04	24888479	TT	AA	1946802283
SNP_P4_47314_24906804	NC_021163.1	Ca_kabuli_chr04	24906804	TT	CC	1946802285
SNP_P4_47315_24914825	NC_021163.1	Ca_kabuli_chr04	24914825	TT	GG	1946802287
SNP_P4_47316_24918028	NC_021163.1	Ca_kabuli_chr04	24918028	AA	GG	1946802289
SNP_P4_47318_24919841	NC_021163.1	Ca_kabuli_chr04	24919841	CC	AA	1946802291
SNP_P4_47319_24921438	NC_021163.1	Ca_kabuli_chr04	24921438	TT	CC	1946802293
SNP_P4_47321_24929314	NC_021163.1	Ca_kabuli_chr04	24929314	AA	GG	1946802295
SNP_P4_47322_24929516	NC_021163.1	Ca_kabuli_chr04	24929516	TT	CC	1946802297
SNP_P4_47323_24931535	NC_021163.1	Ca_kabuli_chr04	24931535	AA	CC	1946802299
SNP_P4_47324_24931569	NC_021163.1	Ca_kabuli_chr04	24931569	CC	TT	1946802301
SNP_P4_47325_24931570	NC_021163.1	Ca_kabuli_chr04	24931570	AA	GG	1946802303
SNP_P4_47326_24931843	NC_021163.1	Ca_kabuli_chr04	24931843	TT	GG	1946802305
SNP_P4_47327_24932843	NC_021163.1	Ca_kabuli_chr04	24932843	TT	CC	1946802307
SNP_P4_47328_24936696	NC_021163.1	Ca_kabuli_chr04	24936696	AA	GG	1946802309

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_47330_24948799	NC_021163.1	Ca_kabuli_chr04	24948799	TT	AA	1946802313
SNP_P4_47331_24956633	NC_021163.1	Ca_kabuli_chr04	24956633	AA	GG	1946802315
SNP_P4_47333_24960140	NC_021163.1	Ca_kabuli_chr04	24960140	AA	GG	1946802317
SNP_P4_47334_24961855	NC_021163.1	Ca_kabuli_chr04	24961855	AA	GG	1946802319
SNP_P4_47335_24970340	NC_021163.1	Ca_kabuli_chr04	24970340	AA	TT	1946802321
SNP_P4_47336_24972541	NC_021163.1	Ca_kabuli_chr04	24972541	AA	GG	1946802323
SNP_P4_47338_24996662	NC_021163.1	Ca_kabuli_chr04	24996662	GG	AA	1946802325
SNP_P4_47339_24996716	NC_021163.1	Ca_kabuli_chr04	24996716	AA	GG	1946802327
SNP_P4_47340_24996722	NC_021163.1	Ca_kabuli_chr04	24996722	TT	CC	1946802329
SNP_P4_47341_24996749	NC_021163.1	Ca_kabuli_chr04	24996749	GG	AA	1946802332
SNP_P4_47342_24996858	NC_021163.1	Ca_kabuli_chr04	24996858	TT	CC	1946802334
SNP_P4_47343_24996985	NC_021163.1	Ca_kabuli_chr04	24996985	GG	AA	1946802336
SNP_P4_47344_24997314	NC_021163.1	Ca_kabuli_chr04	24997314	TT	CC	1946802338
SNP_P4_47345_24997954	NC_021163.1	Ca_kabuli_chr04	24997954	CC	TT	1946802340
SNP_P4_47346_25011192	NC_021163.1	Ca_kabuli_chr04	25011192	GG	AA	1946802342
SNP_P4_47347_25011197	NC_021163.1	Ca_kabuli_chr04	25011197	TT	AA	1946802344
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SNP_P4_47349_25011236	NC_021163.1	Ca_kabuli_chr04	25011236	AA	GG	1946802348
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SNP_P4_47352_25011320	NC_021163.1	Ca_kabuli_chr04	25011320	AA	TT	1946802354
SNP_P4_47354_25018847	NC_021163.1	Ca_kabuli_chr04	25018847	AA	GG	1946802356
SNP_P4_47355_25024256	NC_021163.1	Ca_kabuli_chr04	25024256	GG	TT	1946802358
SNP_P4_47356_25024623	NC_021163.1	Ca_kabuli_chr04	25024623	AA	CC	1946802360
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SNP_P4_47361_25028567	NC_021163.1	Ca_kabuli_chr04	25028567	AA	TT	1946802370
SNP_P4_47364_25041771	NC_021163.1	Ca_kabuli_chr04	25041771	GG	AA	1946802372
SNP_P4_47365_25041796	NC_021163.1	Ca_kabuli_chr04	25041796	GG	AA	1946802374
SNP_P4_47366_25046010	NC_021163.1	Ca_kabuli_chr04	25046010	AA	CC	1946802376
SNP_P4_47367_25046415	NC_021163.1	Ca_kabuli_chr04	25046415	CC	TT	1946802378
SNP_P4_47368_25046884	NC_021163.1	Ca_kabuli_chr04	25046884	AA	CC	1946802380
SNP_P4_47369_25046963	NC_021163.1	Ca_kabuli_chr04	25046963	AA	GG	1946802382
SNP_P4_47371_25047032	NC_021163.1	Ca_kabuli_chr04	25047032	AA	GG	1946802385
SNP_P4_47372_25047033	NC_021163.1	Ca_kabuli_chr04	25047033	TT	GG	1946802387
SNP_P4_47373_25047046	NC_021163.1	Ca_kabuli_chr04	25047046	TT	GG	1946802389
SNP_P4_47374_25047110	NC_021163.1	Ca_kabuli_chr04	25047110	GG	AA	1946802391
SNP_P4_47375_25047171	NC_021163.1	Ca_kabuli_chr04	25047171	GG	CC	1946802393
SNP_P4_47376_25047231	NC_021163.1	Ca_kabuli_chr04	25047231	CC	TT	1946802395

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_47379_25047478	NC_021163.1	Ca_kabuli_chr04	25047478	TT	CC	1946802401
SNP_P4_47380_25047712	NC_021163.1	Ca_kabuli_chr04	25047712	CC	GG	1946802403
SNP_P4_47381_25051118	NC_021163.1	Ca_kabuli_chr04	25051118	AA	CC	1946802405
SNP_P4_47382_25051487	NC_021163.1	Ca_kabuli_chr04	25051487	TT	CC	1946802407
SNP_P4_47383_25051513	NC_021163.1	Ca_kabuli_chr04	25051513	GG	TT	1946802409
SNP_P4_47384_25051925	NC_021163.1	Ca_kabuli_chr04	25051925	GG	AA	1946802411
SNP_P4_47385_25052542	NC_021163.1	Ca_kabuli_chr04	25052542	GG	AA	1946802414
SNP_P4_47387_25053677	NC_021163.1	Ca_kabuli_chr04	25053677	TT	GG	1946802416
SNP_P4_47388_25053796	NC_021163.1	Ca_kabuli_chr04	25053796	CC	TT	1946802418
SNP_P4_47389_25054020	NC_021163.1	Ca_kabuli_chr04	25054020	AA	CC	1946802420
SNP_P4_47390_25054468	NC_021163.1	Ca_kabuli_chr04	25054468	AA	GG	1946802422
SNP_P4_47391_25055248	NC_021163.1	Ca_kabuli_chr04	25055248	CC	TT	1946802424
SNP_P4_47392_25059383	NC_021163.1	Ca_kabuli_chr04	25059383	CC	AA	1946802426
SNP_P4_47393_25059399	NC_021163.1	Ca_kabuli_chr04	25059399	GG	AA	1946802428
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SNP_P4_47402_25064503	NC_021163.1	Ca_kabuli_chr04	25064503	GG	AA	1946802442
SNP_P4_47403_25067159	NC_021163.1	Ca_kabuli_chr04	25067159	GG	AA	1946802444
SNP_P4_47404_25067267	NC_021163.1	Ca_kabuli_chr04	25067267	TT	CC	1946802446
SNP_P4_47405_25067762	NC_021163.1	Ca_kabuli_chr04	25067762	AA	CC	1946802448
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SNP_P4_47407_25067765	NC_021163.1	Ca_kabuli_chr04	25067765	AA	CC	1946802453
SNP_P4_47408_25067823	NC_021163.1	Ca_kabuli_chr04	25067823	GG	AA	1946802455
SNP_P4_47409_25068354	NC_021163.1	Ca_kabuli_chr04	25068354	AA	GG	1946802457
SNP_P4_47410_25068414	NC_021163.1	Ca_kabuli_chr04	25068414	CC	AA	1946802460
SNP_P4_47411_25068800	NC_021163.1	Ca_kabuli_chr04	25068800	AA	GG	1946802462
SNP_P4_47412_25069256	NC_021163.1	Ca_kabuli_chr04	25069256	CC	GG	1946802464
SNP_P4_47413_25070308	NC_021163.1	Ca_kabuli_chr04	25070308	GG	AA	1946802466
SNP_P4_47414_25070326	NC_021163.1	Ca_kabuli_chr04	25070326	CC	TT	1946802469
SNP_P4_47415_25070433	NC_021163.1	Ca_kabuli_chr04	25070433	CC	AA	1946802471
SNP_P4_47416_25071036	NC_021163.1	Ca_kabuli_chr04	25071036	TT	GG	1946802473
SNP_P4_47417_25071094	NC_021163.1	Ca_kabuli_chr04	25071094	CC	TT	1946802475
SNP_P4_47419_25071346	NC_021163.1	Ca_kabuli_chr04	25071346	CC	GG	1946802477
SNP_P4_47420_25074157	NC_021163.1	Ca_kabuli_chr04	25074157	GG	AA	1946802479
SNP_P4_47421_25074226	NC_021163.1	Ca_kabuli_chr04	25074226	AA	GG	1946802481
SNP_P4_47422_25074251	NC_021163.1	Ca_kabuli_chr04	25074251	TT	CC	1946802483
SNP_P4_47423_25074287	NC_021163.1	Ca_kabuli_chr04	25074287	AA	GG	1946802485

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_47426_25074559	NC_021163.1	Ca_kabuli_chr04	25074559	CC	TT	1946802492
SNP_P4_47427_25074574	NC_021163.1	Ca_kabuli_chr04	25074574	CC	TT	1946802494
SNP_P4_47428_25074637	NC_021163.1	Ca_kabuli_chr04	25074637	AA	GG	1946802496
SNP_P4_47429_25074654	NC_021163.1	Ca_kabuli_chr04	25074654	AA	CC	1946802498
SNP_P4_47431_25089310	NC_021163.1	Ca_kabuli_chr04	25089310	TT	CC	1946802500
SNP_P4_47432_25089497	NC_021163.1	Ca_kabuli_chr04	25089497	TT	CC	1946802503
SNP_P4_47433_25089610	NC_021163.1	Ca_kabuli_chr04	25089610	TT	CC	1946802505
SNP_P4_47434_25097754	NC_021163.1	Ca_kabuli_chr04	25097754	AA	GG	1946802507
SNP_P4_47435_25104070	NC_021163.1	Ca_kabuli_chr04	25104070	CC	TT	1946802508
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SNP_P4_47438_25104685	NC_021163.1	Ca_kabuli_chr04	25104685	CC	AA	1946802514
SNP_P4_47439_25104708	NC_021163.1	Ca_kabuli_chr04	25104708	AA	TT	1946802516
SNP_P4_47440_25106400	NC_021163.1	Ca_kabuli_chr04	25106400	CC	AA	1946802518
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SNP_P4_47448_25117235	NC_021163.1	Ca_kabuli_chr04	25117235	TT	CC	1946802531
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SNP_P4_47455_25125632	NC_021163.1	Ca_kabuli_chr04	25125632	AA	GG	1946802545
SNP_P4_47456_25125649	NC_021163.1	Ca_kabuli_chr04	25125649	GG	AA	1946802547
SNP_P4_47457_25136982	NC_021163.1	Ca_kabuli_chr04	25136982	GG	AA	1946802549
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SNP_P4_47464_25157229	NC_021163.1	Ca_kabuli_chr04	25157229	GG	CC	1946802559
SNP_P4_47465_25158967	NC_021163.1	Ca_kabuli_chr04	25158967	CC	TT	1946802561
SNP_P4_47466_25158970	NC_021163.1	Ca_kabuli_chr04	25158970	TT	CC	1946802563
SNP_P4_47468_25159005	NC_021163.1	Ca_kabuli_chr04	25159005	GG	AA	1946802565
SNP_P4_47469_25159006	NC_021163.1	Ca_kabuli_chr04	25159006	TT	CC	1946802567
SNP_P4_47471_25160086	NC_021163.1	Ca_kabuli_chr04	25160086	AA	GG	1946802569
SNP_P4_47472_25161199	NC_021163.1	Ca_kabuli_chr04	25161199	CC	TT	1946802571

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_47475_25164979	NC_021163.1	Ca_kabuli_chr04	25164979	CC	TT	1946802577
SNP_P4_47476_25165010	NC_021163.1	Ca_kabuli_chr04	25165010	TT	CC	1946802579
SNP_P4_47477_25166376	NC_021163.1	Ca_kabuli_chr04	25166376	GG	AA	1946802581
SNP_P4_47478_25168094	NC_021163.1	Ca_kabuli_chr04	25168094	TT	GG	1946802583
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SNP_P4_47482_25168802	NC_021163.1	Ca_kabuli_chr04	25168802	CC	TT	1946802589
SNP_P4_47483_25169458	NC_021163.1	Ca_kabuli_chr04	25169458	CC	TT	1946802591
SNP_P4_47484_25169459	NC_021163.1	Ca_kabuli_chr04	25169459	AA	TT	1946802593
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SNP_P4_47487_25180662	NC_021163.1	Ca_kabuli_chr04	25180662	TT	CC	1946802597
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SNP_P4_47489_25185247	NC_021163.1	Ca_kabuli_chr04	25185247	CC	TT	1946802601
SNP_P4_47490_25187687	NC_021163.1	Ca_kabuli_chr04	25187687	CC	TT	1946802603
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SNP_P4_47493_25190215	NC_021163.1	Ca_kabuli_chr04	25190215	AA	CC	1946802607
SNP_P4_47495_25193204	NC_021163.1	Ca_kabuli_chr04	25193204	CC	TT	1946802609
SNP_P4_47496_25200782	NC_021163.1	Ca_kabuli_chr04	25200782	TT	CC	1946802610
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SNP_P4_47498_25202318	NC_021163.1	Ca_kabuli_chr04	25202318	GG	TT	1946802614
SNP_P4_47500_25207259	NC_021163.1	Ca_kabuli_chr04	25207259	GG	AA	1946802616
SNP_P4_47501_25209983	NC_021163.1	Ca_kabuli_chr04	25209983	CC	TT	1946802618
SNP_P4_47502_25210709	NC_021163.1	Ca_kabuli_chr04	25210709	AA	CC	1946802620
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SNP_P4_47507_25215643	NC_021163.1	Ca_kabuli_chr04	25215643	AA	TT	1946802628
SNP_P4_47508_25215650	NC_021163.1	Ca_kabuli_chr04	25215650	GG	AA	1946802630
SNP_P4_47509_25215664	NC_021163.1	Ca_kabuli_chr04	25215664	CC	TT	1946802632
SNP_P4_47510_25215669	NC_021163.1	Ca_kabuli_chr04	25215669	GG	CC	1946802634
SNP_P4_47511_25215683	NC_021163.1	Ca_kabuli_chr04	25215683	AA	GG	1946802636
SNP_P4_47512_25215829	NC_021163.1	Ca_kabuli_chr04	25215829	GG	TT	1946802638
SNP_P4_47513_25216158	NC_021163.1	Ca_kabuli_chr04	25216158	AA	GG	1946802640
SNP_P4_47514_25216163	NC_021163.1	Ca_kabuli_chr04	25216163	GG	AA	1946802642
SNP_P4_47515_25216501	NC_021163.1	Ca_kabuli_chr04	25216501	AA	GG	1946802644
SNP_P4_47516_25216519	NC_021163.1	Ca_kabuli_chr04	25216519	CC	AA	1946802646
SNP_P4_47517_25216526	NC_021163.1	Ca_kabuli_chr04	25216526	GG	AA	1946802648
SNP_P4_47518_25216532	NC_021163.1	Ca_kabuli_chr04	25216532	CC	TT	1946802651
SNP_P4_47519_25216702	NC_021163.1	Ca_kabuli_chr04	25216702	TT	AA	1946802653
SNP_P4_47520_25217739	NC_021163.1	Ca_kabuli_chr04	25217739	TT	CC	1946802655

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_47522_25223163	NC_021163.1	Ca_kabuli_chr04	25223163	CC	AA	1946802659
SNP_P4_47523_25223374	NC_021163.1	Ca_kabuli_chr04	25223374	TT	CC	1946802660
SNP_P4_47524_25223502	NC_021163.1	Ca_kabuli_chr04	25223502	GG	TT	1946802662
SNP_P4_47525_25224822	NC_021163.1	Ca_kabuli_chr04	25224822	TT	CC	1946802664
SNP_P4_47526_25227406	NC_021163.1	Ca_kabuli_chr04	25227406	AA	GG	1946802666
SNP_P4_47527_25227714	NC_021163.1	Ca_kabuli_chr04	25227714	TT	GG	1946802668
SNP_P4_47529_25231636	NC_021163.1	Ca_kabuli_chr04	25231636	GG	AA	1946802670
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SNP_P4_47532_25236199	NC_021163.1	Ca_kabuli_chr04	25236199	AA	CC	1946802675
SNP_P4_47533_25236212	NC_021163.1	Ca_kabuli_chr04	25236212	TT	CC	1946802677
SNP_P4_47534_25236595	NC_021163.1	Ca_kabuli_chr04	25236595	TT	CC	1946802679
SNP_P4_47535_25237175	NC_021163.1	Ca_kabuli_chr04	25237175	TT	CC	1946802681
SNP_P4_47536_25237194	NC_021163.1	Ca_kabuli_chr04	25237194	AA	GG	1946802683
SNP_P4_47537_25237195	NC_021163.1	Ca_kabuli_chr04	25237195	CC	TT	1946802685
SNP_P4_47538_25237506	NC_021163.1	Ca_kabuli_chr04	25237506	GG	AA	1946802687
SNP_P4_47539_25237657	NC_021163.1	Ca_kabuli_chr04	25237657	CC	GG	1946802689
SNP_P4_47540_25237702	NC_021163.1	Ca_kabuli_chr04	25237702	TT	CC	1946802691
SNP_P4_47541_25237707	NC_021163.1	Ca_kabuli_chr04	25237707	TT	CC	1946802693
SNP_P4_47542_25238342	NC_021163.1	Ca_kabuli_chr04	25238342	CC	TT	1946802695
SNP_P4_47543_25238344	NC_021163.1	Ca_kabuli_chr04	25238344	CC	TT	1946802698
SNP_P4_47544_25238373	NC_021163.1	Ca_kabuli_chr04	25238373	CC	AA	1946802700
SNP_P4_47545_25238375	NC_021163.1	Ca_kabuli_chr04	25238375	AA	CC	1946802702
SNP_P4_47546_25238698	NC_021163.1	Ca_kabuli_chr04	25238698	TT	CC	1946802704
SNP_P4_47547_25238709	NC_021163.1	Ca_kabuli_chr04	25238709	TT	CC	1946802706
SNP_P4_47548_25239491	NC_021163.1	Ca_kabuli_chr04	25239491	TT	CC	1946802708
SNP_P4_47549_25241598	NC_021163.1	Ca_kabuli_chr04	25241598	CC	GG	1946802710
SNP_P4_47550_25241617	NC_021163.1	Ca_kabuli_chr04	25241617	GG	TT	1946802712
SNP_P4_47551_25241654	NC_021163.1	Ca_kabuli_chr04	25241654	GG	AA	1946802714
SNP_P4_47552_25241961	NC_021163.1	Ca_kabuli_chr04	25241961	GG	AA	1946802716
SNP_P4_47554_25243071	NC_021163.1	Ca_kabuli_chr04	25243071	CC	TT	1946802718
SNP_P4_47556_25248140	NC_021163.1	Ca_kabuli_chr04	25248140	TT	CC	1946802720
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SNP_P4_47558_25250222	NC_021163.1	Ca_kabuli_chr04	25250222	CC	GG	1946802724
SNP_P4_47559_25251080	NC_021163.1	Ca_kabuli_chr04	25251080	AA	TT	1946802726
SNP_P4_47560_25251808	NC_021163.1	Ca_kabuli_chr04	25251808	CC	AA	1946802728
SNP_P4_47561_25251825	NC_021163.1	Ca_kabuli_chr04	25251825	TT	CC	1946802730
SNP_P4_47562_25251842	NC_021163.1	Ca_kabuli_chr04	25251842	AA	TT	1946802732
SNP_P4_47564_25255773	NC_021163.1	Ca_kabuli_chr04	25255773	GG	AA	1946802734
SNP_P4_47566_25258608	NC_021163.1	Ca_kabuli_chr04	25258608	TT	AA	1946802736
SNP_P4_47567_25258648	NC_021163.1	Ca_kabuli_chr04	25258648	GG	AA	1946802739
SNP_P4_47568_25258924	NC_021163.1	Ca_kabuli_chr04	25258924	CC	TT	1946802741

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_47570_25259416	NC_021163.1	Ca_kabuli_chr04	25259416	TT	CC	1946802745
SNP_P4_47571_25259430	NC_021163.1	Ca_kabuli_chr04	25259430	AA	TT	1946802747
SNP_P4_47573_25260061	NC_021163.1	Ca_kabuli_chr04	25260061	GG	TT	1946802749
SNP_P4_47574_25260394	NC_021163.1	Ca_kabuli_chr04	25260394	GG	AA	1946802751
SNP_P4_47575_25260424	NC_021163.1	Ca_kabuli_chr04	25260424	GG	AA	1946802753
SNP_P4_47576_25260618	NC_021163.1	Ca_kabuli_chr04	25260618	CC	AA	1946802755
SNP_P4_47577_25260893	NC_021163.1	Ca_kabuli_chr04	25260893	TT	AA	1946802757
SNP_P4_47578_25275378	NC_021163.1	Ca_kabuli_chr04	25275378	TT	AA	1946802759
SNP_P4_47579_25275421	NC_021163.1	Ca_kabuli_chr04	25275421	TT	CC	1946802761
SNP_P4_47580_25275424	NC_021163.1	Ca_kabuli_chr04	25275424	TT	CC	1946802763
SNP_P4_47581_25275465	NC_021163.1	Ca_kabuli_chr04	25275465	GG	AA	1946802765
SNP_P4_47582_25279839	NC_021163.1	Ca_kabuli_chr04	25279839	GG	CC	1946802767
SNP_P4_47583_25279886	NC_021163.1	Ca_kabuli_chr04	25279886	CC	TT	1946802769
SNP_P4_47585_25282343	NC_021163.1	Ca_kabuli_chr04	25282343	GG	TT	1946802771
SNP_P4_47587_25285317	NC_021163.1	Ca_kabuli_chr04	25285317	GG	AA	1946802773
SNP_P4_47588_25285763	NC_021163.1	Ca_kabuli_chr04	25285763	CC	GG	1946802775
SNP_P4_47589_25287445	NC_021163.1	Ca_kabuli_chr04	25287445	TT	GG	1946802777
SNP_P4_47590_25287450	NC_021163.1	Ca_kabuli_chr04	25287450	CC	TT	1946802779
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SNP_P4_47592_25290496	NC_021163.1	Ca_kabuli_chr04	25290496	AA	GG	1946802783
SNP_P4_47593_25290577	NC_021163.1	Ca_kabuli_chr04	25290577	GG	AA	1946802785
SNP_P4_47594_25290636	NC_021163.1	Ca_kabuli_chr04	25290636	TT	CC	1946802787
SNP_P4_47595_25291288	NC_021163.1	Ca_kabuli_chr04	25291288	CC	GG	1946802789
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SNP_P4_47598_25291437	NC_021163.1	Ca_kabuli_chr04	25291437	TT	AA	1946802795
SNP_P4_47599_25291450	NC_021163.1	Ca_kabuli_chr04	25291450	TT	CC	1946802797
SNP_P4_47600_25293243	NC_021163.1	Ca_kabuli_chr04	25293243	CC	AA	1946802799
SNP_P4_47601_25293570	NC_021163.1	Ca_kabuli_chr04	25293570	CC	TT	1946802801
SNP_P4_47602_25293812	NC_021163.1	Ca_kabuli_chr04	25293812	CC	AA	1946802803
SNP_P4_47603_25293817	NC_021163.1	Ca_kabuli_chr04	25293817	CC	GG	1946802805
SNP_P4_47604_25293874	NC_021163.1	Ca_kabuli_chr04	25293874	TT	CC	1946802807
SNP_P4_47605_25294880	NC_021163.1	Ca_kabuli_chr04	25294880	CC	AA	1946802809
SNP_P4_47606_25296771	NC_021163.1	Ca_kabuli_chr04	25296771	CC	GG	1946802811
SNP_P4_47607_25297090	NC_021163.1	Ca_kabuli_chr04	25297090	CC	AA	1946802813
SNP_P4_47608_25298945	NC_021163.1	Ca_kabuli_chr04	25298945	AA	CC	1946802815
SNP_P4_47609_25299536	NC_021163.1	Ca_kabuli_chr04	25299536	TT	CC	1946802817
SNP_P4_47610_25299545	NC_021163.1	Ca_kabuli_chr04	25299545	GG	TT	1946802819
SNP_P4_47611_25299547	NC_021163.1	Ca_kabuli_chr04	25299547	AA	CC	1946802821
SNP_P4_47612_25299990	NC_021163.1	Ca_kabuli_chr04	25299990	CC	TT	1946802824
SNP_P4_47613_25300039	NC_021163.1	Ca_kabuli_chr04	25300039	GG	TT	1946802826

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_47615_25303354	NC_021163.1	Ca_kabuli_chr04	25303354	CC	TT	1946802830
SNP_P4_47616_25303417	NC_021163.1	Ca_kabuli_chr04	25303417	CC	GG	1946802832
SNP_P4_47617_25303494	NC_021163.1	Ca_kabuli_chr04	25303494	AA	GG	1946802834
SNP_P4_47618_25303588	NC_021163.1	Ca_kabuli_chr04	25303588	AA	GG	1946802836
SNP_P4_47619_25303597	NC_021163.1	Ca_kabuli_chr04	25303597	CC	TT	1946802838
SNP_P4_47621_25303632	NC_021163.1	Ca_kabuli_chr04	25303632	AA	GG	1946802840
SNP_P4_47622_25303647	NC_021163.1	Ca_kabuli_chr04	25303647	CC	TT	1946802842
SNP_P4_47623_25303797	NC_021163.1	Ca_kabuli_chr04	25303797	AA	GG	1946802844
SNP_P4_47624_25305073	NC_021163.1	Ca_kabuli_chr04	25305073	CC	TT	1946802846
SNP_P4_47625_25305121	NC_021163.1	Ca_kabuli_chr04	25305121	TT	CC	1946802848
SNP_P4_47626_25305147	NC_021163.1	Ca_kabuli_chr04	25305147	AA	GG	1946802850
SNP_P4_47627_25306477	NC_021163.1	Ca_kabuli_chr04	25306477	AA	GG	1946802852
SNP_P4_47628_25306479	NC_021163.1	Ca_kabuli_chr04	25306479	AA	GG	1946802854
SNP_P4_47629_25326903	NC_021163.1	Ca_kabuli_chr04	25326903	AA	GG	1946802856
SNP_P4_47630_25326990	NC_021163.1	Ca_kabuli_chr04	25326990	CC	AA	1946802858
SNP_P4_47631_25326998	NC_021163.1	Ca_kabuli_chr04	25326998	AA	GG	1946802860
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SNP_P4_47643_25327420	NC_021163.1	Ca_kabuli_chr04	25327420	TT	GG	1946802884
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SNP_P4_47645_25327460	NC_021163.1	Ca_kabuli_chr04	25327460	TT	GG	1946802888
SNP_P4_47646_25327468	NC_021163.1	Ca_kabuli_chr04	25327468	TT	CC	1946802890
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SNP_P4_47649_25342250	NC_021163.1	Ca_kabuli_chr04	25342250	TT	GG	1946802896
SNP_P4_47650_25342272	NC_021163.1	Ca_kabuli_chr04	25342272	AA	GG	1946802898
SNP_P4_47651_25342295	NC_021163.1	Ca_kabuli_chr04	25342295	GG	TT	1946802900
SNP_P4_47652_25344578	NC_021163.1	Ca_kabuli_chr04	25344578	AA	CC	1946802902
SNP_P4_47654_25348868	NC_021163.1	Ca_kabuli_chr04	25348868	CC	TT	1946802904
SNP_P4_47655_25351298	NC_021163.1	Ca_kabuli_chr04	25351298	TT	AA	1946802906
SNP_P4_47656_25351680	NC_021163.1	Ca_kabuli_chr04	25351680	GG	CC	1946802908
SNP_P4_47657_25352311	NC_021163.1	Ca_kabuli_chr04	25352311	GG	AA	1946802910

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_47659_25352391	NC_021163.1	Ca_kabuli_chr04	25352391	GG	AA	1946802915
SNP_P4_47660_25352408	NC_021163.1	Ca_kabuli_chr04	25352408	TT	CC	1946802917
SNP_P4_47661_25352414	NC_021163.1	Ca_kabuli_chr04	25352414	GG	CC	1946802919
SNP_P4_47664_25352637	NC_021163.1	Ca_kabuli_chr04	25352637	TT	CC	1946802921
SNP_P4_47665_25352693	NC_021163.1	Ca_kabuli_chr04	25352693	AA	TT	1946802923
SNP_P4_47666_25352701	NC_021163.1	Ca_kabuli_chr04	25352701	CC	AA	1946802925
SNP_P4_47667_25352705	NC_021163.1	Ca_kabuli_chr04	25352705	TT	CC	1946802927
SNP_P4_47668_25352709	NC_021163.1	Ca_kabuli_chr04	25352709	CC	TT	1946802929
SNP_P4_47669_25352772	NC_021163.1	Ca_kabuli_chr04	25352772	GG	AA	1946802931
SNP_P4_47670_25352936	NC_021163.1	Ca_kabuli_chr04	25352936	CC	TT	1946802933
SNP_P4_47671_25352965	NC_021163.1	Ca_kabuli_chr04	25352965	TT	AA	1946802936
SNP_P4_47672_25352971	NC_021163.1	Ca_kabuli_chr04	25352971	CC	AA	1946802938
SNP_P4_47673_25352988	NC_021163.1	Ca_kabuli_chr04	25352988	CC	TT	1946802940
SNP_P4_47674_25353023	NC_021163.1	Ca_kabuli_chr04	25353023	GG	AA	1946802943
SNP_P4_47675_25353035	NC_021163.1	Ca_kabuli_chr04	25353035	GG	AA	1946802945
SNP_P4_47676_25353219	NC_021163.1	Ca_kabuli_chr04	25353219	CC	TT	1946802947
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SNP_P4_47678_25353240	NC_021163.1	Ca_kabuli_chr04	25353240	TT	GG	1946802951
SNP_P4_47679_25353282	NC_021163.1	Ca_kabuli_chr04	25353282	CC	AA	1946802953
SNP_P4_47680_25353292	NC_021163.1	Ca_kabuli_chr04	25353292	GG	AA	1946802955
SNP_P4_47681_25353302	NC_021163.1	Ca_kabuli_chr04	25353302	AA	GG	1946802957
SNP_P4_47682_25353314	NC_021163.1	Ca_kabuli_chr04	25353314	AA	TT	1946802959
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SNP_P4_47684_25353351	NC_021163.1	Ca_kabuli_chr04	25353351	TT	AA	1946802963
SNP_P4_47685_25353360	NC_021163.1	Ca_kabuli_chr04	25353360	GG	TT	1946802965
SNP_P4_47686_25353473	NC_021163.1	Ca_kabuli_chr04	25353473	AA	TT	1946802967
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SNP_P4_47688_25353689	NC_021163.1	Ca_kabuli_chr04	25353689	TT	CC	1946802971
SNP_P4_47689_25354016	NC_021163.1	Ca_kabuli_chr04	25354016	CC	TT	1946802973
SNP_P4_47690_25355452	NC_021163.1	Ca_kabuli_chr04	25355452	AA	GG	1946802975
SNP_P4_47691_25357560	NC_021163.1	Ca_kabuli_chr04	25357560	AA	GG	1946802977
SNP_P4_47692_25357576	NC_021163.1	Ca_kabuli_chr04	25357576	TT	AA	1946802979
SNP_P4_47695_25358164	NC_021163.1	Ca_kabuli_chr04	25358164	GG	AA	1946802981
SNP_P4_47696_25358376	NC_021163.1	Ca_kabuli_chr04	25358376	CC	TT	1946802983
SNP_P4_47697_25358616	NC_021163.1	Ca_kabuli_chr04	25358616	AA	GG	1946802986
SNP_P4_47698_25358692	NC_021163.1	Ca_kabuli_chr04	25358692	AA	GG	1946802988
SNP_P4_47699_25359225	NC_021163.1	Ca_kabuli_chr04	25359225	AA	CC	1946802990
SNP_P4_47700_25359252	NC_021163.1	Ca_kabuli_chr04	25359252	CC	GG	1946802992
SNP_P4_47702_25359549	NC_021163.1	Ca_kabuli_chr04	25359549	TT	AA	1946802994
SNP_P4_47703_25359563	NC_021163.1	Ca_kabuli_chr04	25359563	TT	CC	1946802995
SNP_P4_47704_25360109	NC_021163.1	Ca_kabuli_chr04	25360109	TT	CC	1946802997

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_47708_25366329	NC_021163.1	Ca_kabuli_chr04	25366329	GG	AA	1946803002
SNP_P4_47709_25366484	NC_021163.1	Ca_kabuli_chr04	25366484	AA	GG	1946803004
SNP_P4_47711_25366668	NC_021163.1	Ca_kabuli_chr04	25366668	TT	CC	1946803006
SNP_P4_47712_25366699	NC_021163.1	Ca_kabuli_chr04	25366699	GG	AA	1946803008
SNP_P4_47713_25366762	NC_021163.1	Ca_kabuli_chr04	25366762	AA	CC	1946803010
SNP_P4_47714_25366813	NC_021163.1	Ca_kabuli_chr04	25366813	CC	AA	1946803012
SNP_P4_47715_25366892	NC_021163.1	Ca_kabuli_chr04	25366892	CC	TT	1946803014
SNP_P4_47716_25366908	NC_021163.1	Ca_kabuli_chr04	25366908	AA	GG	1946803016
SNP_P4_47717_25368585	NC_021163.1	Ca_kabuli_chr04	25368585	GG	AA	1946803018
SNP_P4_47718_25368589	NC_021163.1	Ca_kabuli_chr04	25368589	GG	CC	1946803020
SNP_P4_47719_25368631	NC_021163.1	Ca_kabuli_chr04	25368631	AA	CC	1946803022
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SNP_P4_47721_25368921	NC_021163.1	Ca_kabuli_chr04	25368921	TT	AA	1946803026
SNP_P4_47722_25370836	NC_021163.1	Ca_kabuli_chr04	25370836	TT	CC	1946803028
SNP_P4_47723_25370958	NC_021163.1	Ca_kabuli_chr04	25370958	TT	CC	1946803030
SNP_P4_47724_25375081	NC_021163.1	Ca_kabuli_chr04	25375081	GG	AA	1946803032
SNP_P4_47725_25375397	NC_021163.1	Ca_kabuli_chr04	25375397	TT	AA	1946803034
SNP_P4_47726_25375449	NC_021163.1	Ca_kabuli_chr04	25375449	TT	AA	1946803036
SNP_P4_47727_25375483	NC_021163.1	Ca_kabuli_chr04	25375483	TT	CC	1946803038
SNP_P4_47728_25375500	NC_021163.1	Ca_kabuli_chr04	25375500	TT	CC	1946803040
SNP_P4_47729_25375895	NC_021163.1	Ca_kabuli_chr04	25375895	GG	AA	1946803042
SNP_P4_47730_25375933	NC_021163.1	Ca_kabuli_chr04	25375933	GG	AA	1946803044
SNP_P4_47731_25376077	NC_021163.1	Ca_kabuli_chr04	25376077	CC	TT	1946803046
SNP_P4_47732_25376079	NC_021163.1	Ca_kabuli_chr04	25376079	TT	GG	1946803048
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SNP_P4_47734_25376115	NC_021163.1	Ca_kabuli_chr04	25376115	CC	AA	1946803052
SNP_P4_47735_25376263	NC_021163.1	Ca_kabuli_chr04	25376263	GG	TT	1946803054
SNP_P4_47736_25376331	NC_021163.1	Ca_kabuli_chr04	25376331	GG	TT	1946803056
SNP_P4_47737_25376434	NC_021163.1	Ca_kabuli_chr04	25376434	TT	AA	1946803058
SNP_P4_47738_25376456	NC_021163.1	Ca_kabuli_chr04	25376456	CC	TT	1946803060
SNP_P4_47739_25376734	NC_021163.1	Ca_kabuli_chr04	25376734	TT	CC	1946803062
SNP_P4_47740_25376746	NC_021163.1	Ca_kabuli_chr04	25376746	AA	CC	1946803064
SNP_P4_47741_25376855	NC_021163.1	Ca_kabuli_chr04	25376855	AA	GG	1946803066
SNP_P4_47742_25389389	NC_021163.1	Ca_kabuli_chr04	25389389	CC	TT	1946803068
SNP_P4_47743_25389446	NC_021163.1	Ca_kabuli_chr04	25389446	AA	GG	1946803070
SNP_P4_47744_25389453	NC_021163.1	Ca_kabuli_chr04	25389453	AA	GG	1946803072
SNP_P4_47745_25389457	NC_021163.1	Ca_kabuli_chr04	25389457	TT	CC	1946803074
SNP_P4_47746_25389458	NC_021163.1	Ca_kabuli_chr04	25389458	CC	TT	1946803076
SNP_P4_47747_25390727	NC_021163.1	Ca_kabuli_chr04	25390727	AA	CC	1946803078
SNP_P4_47748_25390989	NC_021163.1	Ca_kabuli_chr04	25390989	AA	GG	1946803080
SNP_P4_47749_25391186	NC_021163.1	Ca_kabuli_chr04	25391186	CC	AA	1946803082

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_47751_25391614	NC_021163.1	Ca_kabuli_chr04	25391614	AA	GG	1946803086
SNP_P4_47753_25392466	NC_021163.1	Ca_kabuli_chr04	25392466	TT	CC	1946803088
SNP_P4_47754_25393974	NC_021163.1	Ca_kabuli_chr04	25393974	GG	AA	1946803090
SNP_P4_47755_25394956	NC_021163.1	Ca_kabuli_chr04	25394956	AA	GG	1946803092
SNP_P4_47756_25399762	NC_021163.1	Ca_kabuli_chr04	25399762	GG	AA	1946803094
SNP_P4_47758_25409825	NC_021163.1	Ca_kabuli_chr04	25409825	GG	CC	1946803096
SNP_P4_47759_25409861	NC_021163.1	Ca_kabuli_chr04	25409861	CC	TT	1946803098
SNP_P4_47760_25434325	NC_021163.1	Ca_kabuli_chr04	25434325	TT	GG	1946803100
SNP_P4_47761_25434418	NC_021163.1	Ca_kabuli_chr04	25434418	TT	CC	1946803102
SNP_P4_47762_25434472	NC_021163.1	Ca_kabuli_chr04	25434472	GG	AA	1946803104
SNP_P4_47763_25434590	NC_021163.1	Ca_kabuli_chr04	25434590	GG	CC	1946803106
SNP_P4_47764_25434642	NC_021163.1	Ca_kabuli_chr04	25434642	AA	TT	1946803108
SNP_P4_47765_25434658	NC_021163.1	Ca_kabuli_chr04	25434658	CC	GG	1946803111
SNP_P4_47767_25440131	NC_021163.1	Ca_kabuli_chr04	25440131	CC	AA	1946803113
SNP_P4_47768_25440338	NC_021163.1	Ca_kabuli_chr04	25440338	GG	TT	1946803115
SNP_P4_47769_25440582	NC_021163.1	Ca_kabuli_chr04	25440582	CC	AA	1946803117
SNP_P4_47770_25440737	NC_021163.1	Ca_kabuli_chr04	25440737	TT	CC	1946803119
SNP_P4_47771_25440812	NC_021163.1	Ca_kabuli_chr04	25440812	AA	TT	1946803121
SNP_P4_47772_25440845	NC_021163.1	Ca_kabuli_chr04	25440845	GG	AA	1946803123
SNP_P4_47773_25440915	NC_021163.1	Ca_kabuli_chr04	25440915	TT	AA	1946803125
SNP_P4_47774_25441076	NC_021163.1	Ca_kabuli_chr04	25441076	AA	GG	1946803127
SNP_P4_47775_25441141	NC_021163.1	Ca_kabuli_chr04	25441141	CC	AA	1946803129
SNP_P4_47776_25441982	NC_021163.1	Ca_kabuli_chr04	25441982	CC	AA	1946803131
SNP_P4_47777_25443329	NC_021163.1	Ca_kabuli_chr04	25443329	TT	CC	1946803133
SNP_P4_47778_25446359	NC_021163.1	Ca_kabuli_chr04	25446359	TT	GG	1946803135
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SNP_P4_47780_25446412	NC_021163.1	Ca_kabuli_chr04	25446412	AA	GG	1946803140
SNP_P4_47781_25446421	NC_021163.1	Ca_kabuli_chr04	25446421	TT	CC	1946803142
SNP_P4_47782_25447524	NC_021163.1	Ca_kabuli_chr04	25447524	CC	GG	1946803144
SNP_P4_47783_25447790	NC_021163.1	Ca_kabuli_chr04	25447790	TT	AA	1946803146
SNP_P4_47784_25447791	NC_021163.1	Ca_kabuli_chr04	25447791	CC	AA	1946803148
SNP_P4_47787_25457834	NC_021163.1	Ca_kabuli_chr04	25457834	AA	GG	1946803150
SNP_P4_47788_25458344	NC_021163.1	Ca_kabuli_chr04	25458344	GG	TT	1946803152
SNP_P4_47789_25460349	NC_021163.1	Ca_kabuli_chr04	25460349	AA	CC	1946803154
SNP_P4_47790_25460356	NC_021163.1	Ca_kabuli_chr04	25460356	GG	AA	1946803156
SNP_P4_47791_25460913	NC_021163.1	Ca_kabuli_chr04	25460913	TT	GG	1946803158
SNP_P4_47792_25461051	NC_021163.1	Ca_kabuli_chr04	25461051	CC	TT	1946803160
SNP_P4_47793_25462294	NC_021163.1	Ca_kabuli_chr04	25462294	AA	GG	1946803163
SNP_P4_47794_25463306	NC_021163.1	Ca_kabuli_chr04	25463306	AA	TT	1946803165
SNP_P4_47795_25463318	NC_021163.1	Ca_kabuli_chr04	25463318	AA	GG	1946803167
SNP_P4_47796_25463676	NC_021163.1	Ca_kabuli_chr04	25463676	TT	CC	1946803170

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_47799_25463689	NC_021163.1	Ca_kabuli_chr04	25463689	GG	CC	1946803177
SNP_P4_47800_25464162	NC_021163.1	Ca_kabuli_chr04	25464162	AA	GG	1946803179
SNP_P4_47801_25465117	NC_021163.1	Ca_kabuli_chr04	25465117	GG	CC	1946803182
SNP_P4_47803_25467478	NC_021163.1	Ca_kabuli_chr04	25467478	TT	CC	1946803184
SNP_P4_47804_25467607	NC_021163.1	Ca_kabuli_chr04	25467607	TT	AA	1946803186
SNP_P4_47806_25467911	NC_021163.1	Ca_kabuli_chr04	25467911	AA	GG	1946803188
SNP_P4_47807_25467920	NC_021163.1	Ca_kabuli_chr04	25467920	AA	GG	1946803191
SNP_P4_47809_25470559	NC_021163.1	Ca_kabuli_chr04	25470559	CC	AA	1946803193
SNP_P4_47810_25477605	NC_021163.1	Ca_kabuli_chr04	25477605	GG	AA	1946803195
SNP_P4_47812_25479893	NC_021163.1	Ca_kabuli_chr04	25479893	AA	GG	1946803198
SNP_P4_47813_25485895	NC_021163.1	Ca_kabuli_chr04	25485895	AA	GG	1946803200
SNP_P4_47814_25487047	NC_021163.1	Ca_kabuli_chr04	25487047	TT	AA	1946803202
SNP_P4_47815_25487056	NC_021163.1	Ca_kabuli_chr04	25487056	AA	TT	1946803205
SNP_P4_47816_25488568	NC_021163.1	Ca_kabuli_chr04	25488568	AA	TT	1946803207
SNP_P4_47817_25489158	NC_021163.1	Ca_kabuli_chr04	25489158	TT	CC	1946803209
SNP_P4_47818_25489899	NC_021163.1	Ca_kabuli_chr04	25489899	CC	TT	1946803211
SNP_P4_47819_25489992	NC_021163.1	Ca_kabuli_chr04	25489992	CC	TT	1946803214
SNP_P4_47820_25491920	NC_021163.1	Ca_kabuli_chr04	25491920	AA	GG	1946803216
SNP_P4_47821_25492472	NC_021163.1	Ca_kabuli_chr04	25492472	CC	TT	1946803218
SNP_P4_47822_25494105	NC_021163.1	Ca_kabuli_chr04	25494105	AA	GG	1946803220
SNP_P4_47823_25495813	NC_021163.1	Ca_kabuli_chr04	25495813	AA	GG	1946803223
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SNP_P4_47825_25497678	NC_021163.1	Ca_kabuli_chr04	25497678	TT	GG	1946803227
SNP_P4_47826_25500789	NC_021163.1	Ca_kabuli_chr04	25500789	CC	AA	1946803229
SNP_P4_47827_25502529	NC_021163.1	Ca_kabuli_chr04	25502529	CC	TT	1946803232
SNP_P4_47828_25505905	NC_021163.1	Ca_kabuli_chr04	25505905	GG	AA	1946803234
SNP_P4_47829_25513035	NC_021163.1	Ca_kabuli_chr04	25513035	GG	TT	1946803236
SNP_P4_47830_25513053	NC_021163.1	Ca_kabuli_chr04	25513053	GG	CC	1946803238
SNP_P4_47831_25513059	NC_021163.1	Ca_kabuli_chr04	25513059	GG	CC	1946803240
SNP_P4_47832_25516131	NC_021163.1	Ca_kabuli_chr04	25516131	AA	TT	1946803243
SNP_P4_47833_25516393	NC_021163.1	Ca_kabuli_chr04	25516393	AA	GG	1946803245
SNP_P4_47835_25522701	NC_021163.1	Ca_kabuli_chr04	25522701	GG	TT	1946803247
SNP_P4_47836_25523962	NC_021163.1	Ca_kabuli_chr04	25523962	CC	TT	1946803249
SNP_P4_47841_25541860	NC_021163.1	Ca_kabuli_chr04	25541860	GG	TT	1946803251
SNP_P4_47842_25542976	NC_021163.1	Ca_kabuli_chr04	25542976	TT	GG	1946803253
SNP_P4_47843_25543726	NC_021163.1	Ca_kabuli_chr04	25543726	GG	AA	1946803255
SNP_P4_47845_25543890	NC_021163.1	Ca_kabuli_chr04	25543890	TT	CC	1946803258
SNP_P4_47846_25544454	NC_021163.1	Ca_kabuli_chr04	25544454	TT	CC	1946803260
SNP_P4_47847_25544455	NC_021163.1	Ca_kabuli_chr04	25544455	GG	AA	1946803262
SNP_P4_47848_25544652	NC_021163.1	Ca_kabuli_chr04	25544652	AA	GG	1946803264

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_47850_25544759	NC_021163.1	Ca_kabuli_chr04	25544759	GG	AA	1946803269
SNP_P4_47851_25557556	NC_021163.1	Ca_kabuli_chr04	25557556	AA	TT	1946803271
SNP_P4_47852_25557557	NC_021163.1	Ca_kabuli_chr04	25557557	AA	CC	1946803273
SNP_P4_47853_25557575	NC_021163.1	Ca_kabuli_chr04	25557575	TT	GG	1946803275
SNP_P4_47854_25558115	NC_021163.1	Ca_kabuli_chr04	25558115	AA	GG	1946803277
SNP_P4_47855_25558136	NC_021163.1	Ca_kabuli_chr04	25558136	CC	TT	1946803279
SNP_P4_47856_25558149	NC_021163.1	Ca_kabuli_chr04	25558149	AA	GG	1946803282
SNP_P4_47857_25560082	NC_021163.1	Ca_kabuli_chr04	25560082	TT	AA	1946803284
SNP_P4_47858_25577794	NC_021163.1	Ca_kabuli_chr04	25577794	GG	AA	1946803286
SNP_P4_47859_25578498	NC_021163.1	Ca_kabuli_chr04	25578498	CC	GG	1946803288
SNP_P4_47860_25579919	NC_021163.1	Ca_kabuli_chr04	25579919	GG	AA	1946803290
SNP_P4_47861_25587670	NC_021163.1	Ca_kabuli_chr04	25587670	CC	TT	1946803292
SNP_P4_47864_25594394	NC_021163.1	Ca_kabuli_chr04	25594394	CC	AA	1946803294
SNP_P4_47867_25604028	NC_021163.1	Ca_kabuli_chr04	25604028	AA	GG	1946803296
SNP_P4_47868_25606298	NC_021163.1	Ca_kabuli_chr04	25606298	AA	GG	1946803299
SNP_P4_47869_25608854	NC_021163.1	Ca_kabuli_chr04	25608854	AA	CC	1946803301
SNP_P4_47870_25608860	NC_021163.1	Ca_kabuli_chr04	25608860	CC	TT	1946803303
SNP_P4_47871_25608871	NC_021163.1	Ca_kabuli_chr04	25608871	TT	CC	1946803305
SNP_P4_47872_25610087	NC_021163.1	Ca_kabuli_chr04	25610087	TT	GG	1946803307
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SNP_P4_47874_25619393	NC_021163.1	Ca_kabuli_chr04	25619393	CC	TT	1946803311
SNP_P4_47875_25625312	NC_021163.1	Ca_kabuli_chr04	25625312	AA	TT	1946803313
SNP_P4_47876_25626351	NC_021163.1	Ca_kabuli_chr04	25626351	GG	AA	1946803315
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SNP_P4_47878_25627883	NC_021163.1	Ca_kabuli_chr04	25627883	AA	CC	1946803319
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SNP_P4_47883_25634843	NC_021163.1	Ca_kabuli_chr04	25634843	TT	AA	1946803328
SNP_P4_47884_25638404	NC_021163.1	Ca_kabuli_chr04	25638404	GG	CC	1946803330
SNP_P4_47885_25638461	NC_021163.1	Ca_kabuli_chr04	25638461	TT	CC	1946803332
SNP_P4_47887_25642762	NC_021163.1	Ca_kabuli_chr04	25642762	TT	CC	1946803334
SNP_P4_47889_25665962	NC_021163.1	Ca_kabuli_chr04	25665962	CC	AA	1946803336
SNP_P4_47890_25666174	NC_021163.1	Ca_kabuli_chr04	25666174	CC	TT	1946803339
SNP_P4_47891_25668680	NC_021163.1	Ca_kabuli_chr04	25668680	CC	TT	1946803341
SNP_P4_47892_25670327	NC_021163.1	Ca_kabuli_chr04	25670327	GG	AA	1946803343
SNP_P4_47893_25670381	NC_021163.1	Ca_kabuli_chr04	25670381	CC	TT	1946803346
SNP_P4_47894_25670761	NC_021163.1	Ca_kabuli_chr04	25670761	TT	CC	1946803348
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SNP_P4_47897_25677111	NC_021163.1	Ca_kabuli_chr04	25677111	GG	TT	1946803352
SNP_P4_47899_25683594	NC_021163.1	Ca_kabuli_chr04	25683594	TT	GG	1946803354

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_47901_25683890	NC_021163.1	Ca_kabuli_chr04	25683890	GG	AA	1946803358
SNP_P4_47902_25685306	NC_021163.1	Ca_kabuli_chr04	25685306	AA	GG	1946803361
SNP_P4_47903_25686198	NC_021163.1	Ca_kabuli_chr04	25686198	GG	AA	1946803363
SNP_P4_47904_25686396	NC_021163.1	Ca_kabuli_chr04	25686396	TT	CC	1946803365
SNP_P4_47905_25686789	NC_021163.1	Ca_kabuli_chr04	25686789	AA	GG	1946803367
SNP_P4_47906_25690590	NC_021163.1	Ca_kabuli_chr04	25690590	TT	CC	1946803369
SNP_P4_47907_25693558	NC_021163.1	Ca_kabuli_chr04	25693558	GG	AA	1946803371
SNP_P4_47908_25693684	NC_021163.1	Ca_kabuli_chr04	25693684	AA	CC	1946803373
SNP_P4_47910_25695080	NC_021163.1	Ca_kabuli_chr04	25695080	AA	CC	1946803375
SNP_P4_47911_25695958	NC_021163.1	Ca_kabuli_chr04	25695958	TT	CC	1946803377
SNP_P4_47912_25695974	NC_021163.1	Ca_kabuli_chr04	25695974	CC	TT	1946803379
SNP_P4_47913_25698629	NC_021163.1	Ca_kabuli_chr04	25698629	GG	AA	1946803381
SNP_P4_47914_25699256	NC_021163.1	Ca_kabuli_chr04	25699256	GG	CC	1946803383
SNP_P4_47915_25701886	NC_021163.1	Ca_kabuli_chr04	25701886	GG	AA	1946803385
SNP_P4_47916_25712962	NC_021163.1	Ca_kabuli_chr04	25712962	GG	CC	1946803387
SNP_P4_47917_25716055	NC_021163.1	Ca_kabuli_chr04	25716055	CC	GG	1946803389
SNP_P4_47918_25719468	NC_021163.1	Ca_kabuli_chr04	25719468	AA	CC	1946803391
SNP_P4_47919_25720868	NC_021163.1	Ca_kabuli_chr04	25720868	GG	AA	1946803393
SNP_P4_47920_25720950	NC_021163.1	Ca_kabuli_chr04	25720950	AA	GG	1946803395
SNP_P4_47922_25723398	NC_021163.1	Ca_kabuli_chr04	25723398	GG	AA	1946803397
SNP_P4_47923_25723399	NC_021163.1	Ca_kabuli_chr04	25723399	TT	CC	1946803399
SNP_P4_47924_25723783	NC_021163.1	Ca_kabuli_chr04	25723783	AA	TT	1946803401
SNP_P4_47925_25724105	NC_021163.1	Ca_kabuli_chr04	25724105	CC	GG	1946803403
SNP_P4_47926_25724588	NC_021163.1	Ca_kabuli_chr04	25724588	AA	CC	1946803405
SNP_P4_47927_25727137	NC_021163.1	Ca_kabuli_chr04	25727137	GG	AA	1946803407
SNP_P4_47928_25731043	NC_021163.1	Ca_kabuli_chr04	25731043	CC	TT	1946803409
SNP_P4_47929_25738523	NC_021163.1	Ca_kabuli_chr04	25738523	TT	CC	1946803411
SNP_P4_47930_25738920	NC_021163.1	Ca_kabuli_chr04	25738920	GG	AA	1946803413
SNP_P4_47931_25741517	NC_021163.1	Ca_kabuli_chr04	25741517	AA	GG	1946803415
SNP_P4_47932_25743694	NC_021163.1	Ca_kabuli_chr04	25743694	CC	AA	1946803417
SNP_P4_47934_25756377	NC_021163.1	Ca_kabuli_chr04	25756377	AA	GG	1946803420
SNP_P4_47935_25756897	NC_021163.1	Ca_kabuli_chr04	25756897	TT	CC	1946803422
SNP_P4_47936_25758049	NC_021163.1	Ca_kabuli_chr04	25758049	CC	TT	1946803424
SNP_P4_47938_25758254	NC_021163.1	Ca_kabuli_chr04	25758254	AA	GG	1946803426
SNP_P4_47939_25758945	NC_021163.1	Ca_kabuli_chr04	25758945	GG	TT	1946803428
SNP_P4_47942_25760857	NC_021163.1	Ca_kabuli_chr04	25760857	CC	TT	1946803430
SNP_P4_47944_25762790	NC_021163.1	Ca_kabuli_chr04	25762790	GG	AA	1946803432
SNP_P4_47946_25763196	NC_021163.1	Ca_kabuli_chr04	25763196	GG	TT	1946803434
SNP_P4_47947_25763396	NC_021163.1	Ca_kabuli_chr04	25763396	CC	TT	1946803436
SNP_P4_47948_25763416	NC_021163.1	Ca_kabuli_chr04	25763416	GG	AA	1946803438
SNP_P4_47949_25768063	NC_021163.1	Ca_kabuli_chr04	25768063	GG	AA	1946803440

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_47951_25768466	NC_021163.1	Ca_kabuli_chr04	25768466	AA	GG	1946803444
SNP_P4_47952_25768479	NC_021163.1	Ca_kabuli_chr04	25768479	GG	TT	1946803447
SNP_P4_47953_25768481	NC_021163.1	Ca_kabuli_chr04	25768481	AA	GG	1946803449
SNP_P4_47954_25769226	NC_021163.1	Ca_kabuli_chr04	25769226	AA	GG	1946803451
SNP_P4_47955_25769632	NC_021163.1	Ca_kabuli_chr04	25769632	CC	GG	1946803453
SNP_P4_47956_25770537	NC_021163.1	Ca_kabuli_chr04	25770537	TT	CC	1946803455
SNP_P4_47957_25773324	NC_021163.1	Ca_kabuli_chr04	25773324	GG	AA	1946803457
SNP_P4_47958_25773761	NC_021163.1	Ca_kabuli_chr04	25773761	TT	AA	1946803459
SNP_P4_47960_25774534	NC_021163.1	Ca_kabuli_chr04	25774534	AA	GG	1946803461
SNP_P4_47962_25776377	NC_021163.1	Ca_kabuli_chr04	25776377	GG	AA	1946803463
SNP_P4_47963_25776557	NC_021163.1	Ca_kabuli_chr04	25776557	CC	TT	1946803465
SNP_P4_47964_25777935	NC_021163.1	Ca_kabuli_chr04	25777935	AA	GG	1946803467
SNP_P4_47965_25777981	NC_021163.1	Ca_kabuli_chr04	25777981	TT	CC	1946803469
SNP_P4_47966_25778041	NC_021163.1	Ca_kabuli_chr04	25778041	AA	GG	1946803471
SNP_P4_47967_25778212	NC_021163.1	Ca_kabuli_chr04	25778212	GG	AA	1946803473
SNP_P4_47969_25779272	NC_021163.1	Ca_kabuli_chr04	25779272	TT	CC	1946803475
SNP_P4_47971_25779526	NC_021163.1	Ca_kabuli_chr04	25779526	GG	AA	1946803477
SNP_P4_47972_25779556	NC_021163.1	Ca_kabuli_chr04	25779556	GG	AA	1946803479
SNP_P4_47973_25780821	NC_021163.1	Ca_kabuli_chr04	25780821	AA	TT	1946803481
SNP_P4_47974_25781808	NC_021163.1	Ca_kabuli_chr04	25781808	AA	GG	1946803483
SNP_P4_47975_25783289	NC_021163.1	Ca_kabuli_chr04	25783289	GG	AA	1946803485
SNP_P4_47976_25785042	NC_021163.1	Ca_kabuli_chr04	25785042	TT	AA	1946803487
SNP_P4_47977_25787261	NC_021163.1	Ca_kabuli_chr04	25787261	GG	TT	1946803489
SNP_P4_47978_25787277	NC_021163.1	Ca_kabuli_chr04	25787277	TT	CC	1946803492
SNP_P4_47979_25787294	NC_021163.1	Ca_kabuli_chr04	25787294	GG	AA	1946803494
SNP_P4_47980_25790132	NC_021163.1	Ca_kabuli_chr04	25790132	CC	TT	1946803496
SNP_P4_47981_25790206	NC_021163.1	Ca_kabuli_chr04	25790206	TT	GG	1946803499
SNP_P4_47982_25790421	NC_021163.1	Ca_kabuli_chr04	25790421	GG	TT	1946803501
SNP_P4_47984_25790779	NC_021163.1	Ca_kabuli_chr04	25790779	CC	TT	1946803503
SNP_P4_47985_25791689	NC_021163.1	Ca_kabuli_chr04	25791689	CC	AA	1946803505
SNP_P4_47986_25796206	NC_021163.1	Ca_kabuli_chr04	25796206	GG	AA	1946803507
SNP_P4_47987_25796492	NC_021163.1	Ca_kabuli_chr04	25796492	CC	TT	1946803509
SNP_P4_47988_25803410	NC_021163.1	Ca_kabuli_chr04	25803410	CC	TT	1946803511
SNP_P4_47989_25803723	NC_021163.1	Ca_kabuli_chr04	25803723	GG	AA	1946803513
SNP_P4_47990_25804035	NC_021163.1	Ca_kabuli_chr04	25804035	GG	AA	1946803515
SNP_P4_47991_25804090	NC_021163.1	Ca_kabuli_chr04	25804090	TT	CC	1946803517
SNP_P4_47992_25804124	NC_021163.1	Ca_kabuli_chr04	25804124	GG	TT	1946803519
SNP_P4_47993_25805072	NC_021163.1	Ca_kabuli_chr04	25805072	AA	CC	1946803521
SNP_P4_47994_25808736	NC_021163.1	Ca_kabuli_chr04	25808736	AA	GG	1946803523
SNP_P4_47995_25814068	NC_021163.1	Ca_kabuli_chr04	25814068	CC	GG	1946803526
SNP_P4_47996_25817442	NC_021163.1	Ca_kabuli_chr04	25817442	AA	CC	1946803528

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_47999_25824737	NC_021163.1	Ca_kabuli_chr04	25824737	TT	AA	1946803532
SNP_P4_48000_25824859	NC_021163.1	Ca_kabuli_chr04	25824859	TT	CC	1946803535
SNP_P4_48002_25825140	NC_021163.1	Ca_kabuli_chr04	25825140	AA	CC	1946803537
SNP_P4_48004_25834606	NC_021163.1	Ca_kabuli_chr04	25834606	TT	GG	1946803539
SNP_P4_48005_25834920	NC_021163.1	Ca_kabuli_chr04	25834920	AA	GG	1946803541
SNP_P4_48006_25834945	NC_021163.1	Ca_kabuli_chr04	25834945	TT	CC	1946803543
SNP_P4_48008_25834982	NC_021163.1	Ca_kabuli_chr04	25834982	CC	TT	1946803545
SNP_P4_48009_25847277	NC_021163.1	Ca_kabuli_chr04	25847277	GG	AA	1946803548
SNP_P4_48010_25847288	NC_021163.1	Ca_kabuli_chr04	25847288	GG	TT	1946803550
SNP_P4_48011_25847303	NC_021163.1	Ca_kabuli_chr04	25847303	CC	TT	1946803552
SNP_P4_48012_25847598	NC_021163.1	Ca_kabuli_chr04	25847598	GG	TT	1946803554
SNP_P4_48013_25847655	NC_021163.1	Ca_kabuli_chr04	25847655	CC	AA	1946803556
SNP_P4_48015_25847740	NC_021163.1	Ca_kabuli_chr04	25847740	GG	TT	1946803558
SNP_P4_48017_25852254	NC_021163.1	Ca_kabuli_chr04	25852254	CC	TT	1946803560
SNP_P4_48018_25854351	NC_021163.1	Ca_kabuli_chr04	25854351	TT	GG	1946803562
SNP_P4_48019_25854352	NC_021163.1	Ca_kabuli_chr04	25854352	AA	CC	1946803564
SNP_P4_48020_25857538	NC_021163.1	Ca_kabuli_chr04	25857538	TT	GG	1946803566
SNP_P4_48021_25857682	NC_021163.1	Ca_kabuli_chr04	25857682	TT	CC	1946803568
SNP_P4_48022_25857726	NC_021163.1	Ca_kabuli_chr04	25857726	TT	CC	1946803570
SNP_P4_48023_25860451	NC_021163.1	Ca_kabuli_chr04	25860451	CC	TT	1946803572
SNP_P4_48025_25866443	NC_021163.1	Ca_kabuli_chr04	25866443	GG	CC	1946803574
SNP_P4_48026_25867568	NC_021163.1	Ca_kabuli_chr04	25867568	AA	GG	1946803577
SNP_P4_48028_25869122	NC_021163.1	Ca_kabuli_chr04	25869122	GG	AA	1946803579
SNP_P4_48029_25869132	NC_021163.1	Ca_kabuli_chr04	25869132	TT	CC	1946803581
SNP_P4_48030_25869133	NC_021163.1	Ca_kabuli_chr04	25869133	AA	GG	1946803583
SNP_P4_48031_25870644	NC_021163.1	Ca_kabuli_chr04	25870644	CC	TT	1946803585
SNP_P4_48032_25877077	NC_021163.1	Ca_kabuli_chr04	25877077	CC	TT	1946803587
SNP_P4_48033_25880771	NC_021163.1	Ca_kabuli_chr04	25880771	GG	TT	1946803589
SNP_P4_48034_25882218	NC_021163.1	Ca_kabuli_chr04	25882218	CC	TT	1946803591
SNP_P4_48035_25883625	NC_021163.1	Ca_kabuli_chr04	25883625	AA	CC	1946803593
SNP_P4_48036_25883627	NC_021163.1	Ca_kabuli_chr04	25883627	CC	AA	1946803595
SNP_P4_48037_25883910	NC_021163.1	Ca_kabuli_chr04	25883910	AA	GG	1946803597
SNP_P4_48038_25883945	NC_021163.1	Ca_kabuli_chr04	25883945	CC	TT	1946803599
SNP_P4_48039_25887822	NC_021163.1	Ca_kabuli_chr04	25887822	GG	TT	1946803601
SNP_P4_48040_25887885	NC_021163.1	Ca_kabuli_chr04	25887885	TT	GG	1946803603
SNP_P4_48041_25887963	NC_021163.1	Ca_kabuli_chr04	25887963	AA	GG	1946803605
SNP_P4_48042_25889475	NC_021163.1	Ca_kabuli_chr04	25889475	TT	CC	1946803607
SNP_P4_48043_25892771	NC_021163.1	Ca_kabuli_chr04	25892771	AA	CC	1946803609
SNP_P4_48044_25894582	NC_021163.1	Ca_kabuli_chr04	25894582	TT	CC	1946803611
SNP_P4_48045_25896069	NC_021163.1	Ca_kabuli_chr04	25896069	CC	AA	1946803613
SNP_P4_48046_25896309	NC_021163.1	Ca_kabuli_chr04	25896309	TT	GG	1946803615

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_48048_25896322	NC_021163.1	Ca_kabuli_chr04	25896322	TT	CC	1946803619
SNP_P4_48049_25896387	NC_021163.1	Ca_kabuli_chr04	25896387	AA	GG	1946803621
SNP_P4_48050_25898034	NC_021163.1	Ca_kabuli_chr04	25898034	TT	CC	1946803623
SNP_P4_48051_25905184	NC_021163.1	Ca_kabuli_chr04	25905184	TT	CC	1946803625
SNP_P4_48052_25905226	NC_021163.1	Ca_kabuli_chr04	25905226	TT	CC	1946803627
SNP_P4_48053_25905378	NC_021163.1	Ca_kabuli_chr04	25905378	CC	TT	1946803629
SNP_P4_48054_25910328	NC_021163.1	Ca_kabuli_chr04	25910328	TT	AA	1946803631
SNP_P4_48055_25910329	NC_021163.1	Ca_kabuli_chr04	25910329	TT	CC	1946803633
SNP_P4_48056_25910468	NC_021163.1	Ca_kabuli_chr04	25910468	AA	CC	1946803635
SNP_P4_48057_25910523	NC_021163.1	Ca_kabuli_chr04	25910523	AA	GG	1946803637
SNP_P4_48058_25910544	NC_021163.1	Ca_kabuli_chr04	25910544	GG	AA	1946803639
SNP_P4_48059_25910547	NC_021163.1	Ca_kabuli_chr04	25910547	AA	GG	1946803641
SNP_P4_48060_25910672	NC_021163.1	Ca_kabuli_chr04	25910672	TT	CC	1946803643
SNP_P4_48061_25910696	NC_021163.1	Ca_kabuli_chr04	25910696	TT	CC	1946803645
SNP_P4_48062_25911059	NC_021163.1	Ca_kabuli_chr04	25911059	AA	GG	1946803647
SNP_P4_48063_25911214	NC_021163.1	Ca_kabuli_chr04	25911214	TT	CC	1946803649
SNP_P4_48064_25911394	NC_021163.1	Ca_kabuli_chr04	25911394	CC	TT	1946803651
SNP_P4_48065_25911444	NC_021163.1	Ca_kabuli_chr04	25911444	CC	AA	1946803653
SNP_P4_48066_25912821	NC_021163.1	Ca_kabuli_chr04	25912821	AA	GG	1946803655
SNP_P4_48067_25912835	NC_021163.1	Ca_kabuli_chr04	25912835	CC	TT	1946803657
SNP_P4_48068_25912899	NC_021163.1	Ca_kabuli_chr04	25912899	GG	AA	1946803659
SNP_P4_48069_25913183	NC_021163.1	Ca_kabuli_chr04	25913183	CC	TT	1946803661
SNP_P4_48070_25913474	NC_021163.1	Ca_kabuli_chr04	25913474	TT	AA	1946803663
SNP_P4_48071_25913604	NC_021163.1	Ca_kabuli_chr04	25913604	CC	TT	1946803665
SNP_P4_48072_25916766	NC_021163.1	Ca_kabuli_chr04	25916766	TT	AA	1946803667
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SNP_P4_48075_25917105	NC_021163.1	Ca_kabuli_chr04	25917105	CC	TT	1946803671
SNP_P4_48076_25917994	NC_021163.1	Ca_kabuli_chr04	25917994	GG	AA	1946803673
SNP_P4_48077_25922220	NC_021163.1	Ca_kabuli_chr04	25922220	CC	TT	1946803675
SNP_P4_48078_25923959	NC_021163.1	Ca_kabuli_chr04	25923959	GG	TT	1946803677
SNP_P4_48079_25923977	NC_021163.1	Ca_kabuli_chr04	25923977	GG	AA	1946803679
SNP_P4_48080_25924681	NC_021163.1	Ca_kabuli_chr04	25924681	TT	AA	1946803681
SNP_P4_48082_25925406	NC_021163.1	Ca_kabuli_chr04	25925406	TT	CC	1946803683
SNP_P4_48083_25925539	NC_021163.1	Ca_kabuli_chr04	25925539	GG	TT	1946803685
SNP_P4_48084_25927055	NC_021163.1	Ca_kabuli_chr04	25927055	CC	TT	1946803687
SNP_P4_48085_25927086	NC_021163.1	Ca_kabuli_chr04	25927086	AA	CC	1946803689
SNP_P4_48086_25933716	NC_021163.1	Ca_kabuli_chr04	25933716	AA	CC	1946803691
SNP_P4_48090_25936876	NC_021163.1	Ca_kabuli_chr04	25936876	CC	TT	1946803693
SNP_P4_48092_25937309	NC_021163.1	Ca_kabuli_chr04	25937309	GG	AA	1946803695
SNP_P4_48094_25940115	NC_021163.1	Ca_kabuli_chr04	25940115	TT	CC	1946803697
SNP_P4_48095_25940156	NC_021163.1	Ca_kabuli_chr04	25940156	AA	GG	1946803699

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_48098_25941482	NC_021163.1	Ca_kabuli_chr04	25941482	AA	GG	1946803706
SNP_P4_48101_25942286	NC_021163.1	Ca_kabuli_chr04	25942286	CC	TT	1946803709
SNP_P4_48102_25943450	NC_021163.1	Ca_kabuli_chr04	25943450	CC	AA	1946803711
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SNP_P4_48104_25943820	NC_021163.1	Ca_kabuli_chr04	25943820	CC	TT	1946803715
SNP_P4_48105_25944098	NC_021163.1	Ca_kabuli_chr04	25944098	AA	TT	1946803717
SNP_P4_48106_25944443	NC_021163.1	Ca_kabuli_chr04	25944443	CC	TT	1946803720
SNP_P4_48107_25947115	NC_021163.1	Ca_kabuli_chr04	25947115	CC	TT	1946803722
SNP_P4_48108_25947841	NC_021163.1	Ca_kabuli_chr04	25947841	CC	TT	1946803724
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SNP_P4_48112_25948167	NC_021163.1	Ca_kabuli_chr04	25948167	TT	CC	1946803732
SNP_P4_48113_25948211	NC_021163.1	Ca_kabuli_chr04	25948211	CC	GG	1946803734
SNP_P4_48114_25948430	NC_021163.1	Ca_kabuli_chr04	25948430	CC	TT	1946803736
SNP_P4_48115_25948525	NC_021163.1	Ca_kabuli_chr04	25948525	AA	TT	1946803738
SNP_P4_48116_25948794	NC_021163.1	Ca_kabuli_chr04	25948794	TT	CC	1946803740
SNP_P4_48117_25948813	NC_021163.1	Ca_kabuli_chr04	25948813	CC	TT	1946803742
SNP_P4_48118_25948981	NC_021163.1	Ca_kabuli_chr04	25948981	AA	CC	1946803744
SNP_P4_48119_25948982	NC_021163.1	Ca_kabuli_chr04	25948982	TT	CC	1946803746
SNP_P4_48120_25949018	NC_021163.1	Ca_kabuli_chr04	25949018	CC	GG	1946803749
SNP_P4_48122_25949384	NC_021163.1	Ca_kabuli_chr04	25949384	CC	TT	1946803752
SNP_P4_48123_25950419	NC_021163.1	Ca_kabuli_chr04	25950419	AA	GG	1946803754
SNP_P4_48124_25950593	NC_021163.1	Ca_kabuli_chr04	25950593	TT	AA	1946803756
SNP_P4_48125_25950624	NC_021163.1	Ca_kabuli_chr04	25950624	CC	TT	1946803758
SNP_P4_48127_25951216	NC_021163.1	Ca_kabuli_chr04	25951216	TT	CC	1946803760
SNP_P4_48128_25954225	NC_021163.1	Ca_kabuli_chr04	25954225	GG	AA	1946803762
SNP_P4_48129_25954304	NC_021163.1	Ca_kabuli_chr04	25954304	CC	TT	1946803764
SNP_P4_48130_25954609	NC_021163.1	Ca_kabuli_chr04	25954609	AA	GG	1946803766
SNP_P4_48131_25954900	NC_021163.1	Ca_kabuli_chr04	25954900	TT	AA	1946803768
SNP_P4_48132_25955843	NC_021163.1	Ca_kabuli_chr04	25955843	CC	TT	1946803770
SNP_P4_48133_25956290	NC_021163.1	Ca_kabuli_chr04	25956290	GG	CC	1946803772
SNP_P4_48134_25956691	NC_021163.1	Ca_kabuli_chr04	25956691	GG	TT	1946803775
SNP_P4_48137_25960032	NC_021163.1	Ca_kabuli_chr04	25960032	CC	TT	1946803777
SNP_P4_48138_25960156	NC_021163.1	Ca_kabuli_chr04	25960156	TT	GG	1946803779
SNP_P4_48139_25960278	NC_021163.1	Ca_kabuli_chr04	25960278	AA	TT	1946803781
SNP_P4_48140_25960293	NC_021163.1	Ca_kabuli_chr04	25960293	TT	AA	1946803783
SNP_P4_48141_25960386	NC_021163.1	Ca_kabuli_chr04	25960386	GG	AA	1946803785
SNP_P4_48142_25960545	NC_021163.1	Ca_kabuli_chr04	25960545	CC	TT	1946803787
SNP_P4_48143_25960731	NC_021163.1	Ca_kabuli_chr04	25960731	AA	GG	1946803789

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_48144_25960746	NC_021163.1	Ca_kabuli_chr04	25960746	CC	AA	1946803793
SNP_P4_48145_25962491	NC_021163.1	Ca_kabuli_chr04	25962491	AA	TT	1946803795
SNP_P4_48146_25962522	NC_021163.1	Ca_kabuli_chr04	25962522	TT	CC	1946803797
SNP_P4_48147_25962651	NC_021163.1	Ca_kabuli_chr04	25962651	CC	TT	1946803799
SNP_P4_48148_25962799	NC_021163.1	Ca_kabuli_chr04	25962799	TT	AA	1946803801
SNP_P4_48150_25962875	NC_021163.1	Ca_kabuli_chr04	25962875	AA	TT	1946803803
SNP_P4_48151_25963410	NC_021163.1	Ca_kabuli_chr04	25963410	CC	TT	1946803805
SNP_P4_48152_25963540	NC_021163.1	Ca_kabuli_chr04	25963540	TT	CC	1946803807
SNP_P4_48153_25963542	NC_021163.1	Ca_kabuli_chr04	25963542	GG	AA	1946803809
SNP_P4_48154_25963705	NC_021163.1	Ca_kabuli_chr04	25963705	AA	TT	1946803811
SNP_P4_48156_25964219	NC_021163.1	Ca_kabuli_chr04	25964219	AA	TT	1946803813
SNP_P4_48157_25964269	NC_021163.1	Ca_kabuli_chr04	25964269	CC	AA	1946803815
SNP_P4_48158_25964286	NC_021163.1	Ca_kabuli_chr04	25964286	TT	CC	1946803817
SNP_P4_48159_25964296	NC_021163.1	Ca_kabuli_chr04	25964296	CC	TT	1946803819
SNP_P4_48160_25964368	NC_021163.1	Ca_kabuli_chr04	25964368	GG	AA	1946803821
SNP_P4_48161_25964478	NC_021163.1	Ca_kabuli_chr04	25964478	AA	GG	1946803823
SNP_P4_48162_25964543	NC_021163.1	Ca_kabuli_chr04	25964543	AA	GG	1946803825
SNP_P4_48163_25964692	NC_021163.1	Ca_kabuli_chr04	25964692	AA	CC	1946803827
SNP_P4_48164_25964701	NC_021163.1	Ca_kabuli_chr04	25964701	CC	TT	1946803829
SNP_P4_48165_25964738	NC_021163.1	Ca_kabuli_chr04	25964738	AA	GG	1946803831
SNP_P4_48166_25964847	NC_021163.1	Ca_kabuli_chr04	25964847	GG	TT	1946803833
SNP_P4_48167_25964855	NC_021163.1	Ca_kabuli_chr04	25964855	AA	CC	1946803835
SNP_P4_48169_25965337	NC_021163.1	Ca_kabuli_chr04	25965337	AA	CC	1946803836
SNP_P4_48170_25965466	NC_021163.1	Ca_kabuli_chr04	25965466	CC	AA	1946803838
SNP_P4_48171_25965544	NC_021163.1	Ca_kabuli_chr04	25965544	GG	CC	1946803840
SNP_P4_48172_25965801	NC_021163.1	Ca_kabuli_chr04	25965801	GG	TT	1946803842
SNP_P4_48173_25965820	NC_021163.1	Ca_kabuli_chr04	25965820	GG	AA	1946803845
SNP_P4_48174_25965854	NC_021163.1	Ca_kabuli_chr04	25965854	AA	CC	1946803847
SNP_P4_48175_25965883	NC_021163.1	Ca_kabuli_chr04	25965883	GG	AA	1946803849
SNP_P4_48176_25965993	NC_021163.1	Ca_kabuli_chr04	25965993	GG	AA	1946803851
SNP_P4_48177_25966048	NC_021163.1	Ca_kabuli_chr04	25966048	CC	TT	1946803853
SNP_P4_48178_25966064	NC_021163.1	Ca_kabuli_chr04	25966064	CC	GG	1946803855
SNP_P4_48180_25966076	NC_021163.1	Ca_kabuli_chr04	25966076	GG	AA	1946803857
SNP_P4_48181_25966085	NC_021163.1	Ca_kabuli_chr04	25966085	TT	AA	1946803859
SNP_P4_48182_25966093	NC_021163.1	Ca_kabuli_chr04	25966093	TT	GG	1946803861
SNP_P4_48183_25966111	NC_021163.1	Ca_kabuli_chr04	25966111	TT	GG	1946803863
SNP_P4_48184_25966173	NC_021163.1	Ca_kabuli_chr04	25966173	CC	TT	1946803865
SNP_P4_48185_25966192	NC_021163.1	Ca_kabuli_chr04	25966192	GG	TT	1946803867
SNP_P4_48186_25966283	NC_021163.1	Ca_kabuli_chr04	25966283	TT	GG	1946803870
SNP_P4_48187_25966307	NC_021163.1	Ca_kabuli_chr04	25966307	GG	AA	1946803872
SNP_P4_48188_25966309	NC_021163.1	Ca_kabuli_chr04	25966309	AA	GG	1946803874
SNP_P4_48189_25966318	NC_021163.1	Ca_kabuli_chr04	25966318	CC	TT	1946803876

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_48191_25966366	NC_021163.1	Ca_kabuli_chr04	25966366	CC	TT	1946803880
SNP_P4_48192_25966379	NC_021163.1	Ca_kabuli_chr04	25966379	GG	AA	1946803883
SNP_P4_48193_25966399	NC_021163.1	Ca_kabuli_chr04	25966399	CC	AA	1946803885
SNP_P4_48194_25966407	NC_021163.1	Ca_kabuli_chr04	25966407	AA	GG	1946803887
SNP_P4_48195_25966420	NC_021163.1	Ca_kabuli_chr04	25966420	GG	AA	1946803889
SNP_P4_48196_25966445	NC_021163.1	Ca_kabuli_chr04	25966445	TT	AA	1946803891
SNP_P4_48197_25966458	NC_021163.1	Ca_kabuli_chr04	25966458	TT	AA	1946803893
SNP_P4_48198_25966544	NC_021163.1	Ca_kabuli_chr04	25966544	CC	GG	1946803896
SNP_P4_48199_25966548	NC_021163.1	Ca_kabuli_chr04	25966548	AA	GG	1946803898
SNP_P4_48200_25966590	NC_021163.1	Ca_kabuli_chr04	25966590	CC	TT	1946803900
SNP_P4_48201_25966709	NC_021163.1	Ca_kabuli_chr04	25966709	AA	GG	1946803902
SNP_P4_48202_25966726	NC_021163.1	Ca_kabuli_chr04	25966726	AA	GG	1946803904
SNP_P4_48203_25966738	NC_021163.1	Ca_kabuli_chr04	25966738	TT	GG	1946803907
SNP_P4_48204_25966741	NC_021163.1	Ca_kabuli_chr04	25966741	CC	AA	1946803909
SNP_P4_48205_25966756	NC_021163.1	Ca_kabuli_chr04	25966756	AA	TT	1946803911
SNP_P4_48206_25966782	NC_021163.1	Ca_kabuli_chr04	25966782	CC	AA	1946803913
SNP_P4_48207_25966860	NC_021163.1	Ca_kabuli_chr04	25966860	AA	TT	1946803915
SNP_P4_48208_25966887	NC_021163.1	Ca_kabuli_chr04	25966887	AA	TT	1946803917
SNP_P4_48209_25966909	NC_021163.1	Ca_kabuli_chr04	25966909	AA	GG	1946803920
SNP_P4_48210_25966927	NC_021163.1	Ca_kabuli_chr04	25966927	AA	GG	1946803922
SNP_P4_48211_25966935	NC_021163.1	Ca_kabuli_chr04	25966935	CC	TT	1946803924
SNP_P4_48212_25966953	NC_021163.1	Ca_kabuli_chr04	25966953	GG	TT	1946803927
SNP_P4_48213_25966999	NC_021163.1	Ca_kabuli_chr04	25966999	CC	AA	1946803929
SNP_P4_48214_25967884	NC_021163.1	Ca_kabuli_chr04	25967884	CC	TT	1946803931
SNP_P4_48215_25967968	NC_021163.1	Ca_kabuli_chr04	25967968	CC	TT	1946803933
SNP_P4_48217_25968001	NC_021163.1	Ca_kabuli_chr04	25968001	CC	GG	1946803935
SNP_P4_48218_25968019	NC_021163.1	Ca_kabuli_chr04	25968019	CC	AA	1946803937
SNP_P4_48219_25968020	NC_021163.1	Ca_kabuli_chr04	25968020	AA	TT	1946803939
SNP_P4_48220_25968028	NC_021163.1	Ca_kabuli_chr04	25968028	CC	TT	1946803941
SNP_P4_48221_25968065	NC_021163.1	Ca_kabuli_chr04	25968065	TT	GG	1946803944
SNP_P4_48222_25968240	NC_021163.1	Ca_kabuli_chr04	25968240	TT	CC	1946803946
SNP_P4_48223_25968297	NC_021163.1	Ca_kabuli_chr04	25968297	TT	AA	1946803948
SNP_P4_48224_25968319	NC_021163.1	Ca_kabuli_chr04	25968319	CC	AA	1946803950
SNP_P4_48225_25968364	NC_021163.1	Ca_kabuli_chr04	25968364	AA	CC	1946803952
SNP_P4_48226_25968422	NC_021163.1	Ca_kabuli_chr04	25968422	CC	AA	1946803954
SNP_P4_48227_25968462	NC_021163.1	Ca_kabuli_chr04	25968462	TT	CC	1946803956
SNP_P4_48228_25968501	NC_021163.1	Ca_kabuli_chr04	25968501	TT	GG	1946803959
SNP_P4_48229_25968743	NC_021163.1	Ca_kabuli_chr04	25968743	TT	AA	1946803961
SNP_P4_48230_25968765	NC_021163.1	Ca_kabuli_chr04	25968765	TT	CC	1946803963
SNP_P4_48232_25968852	NC_021163.1	Ca_kabuli_chr04	25968852	TT	CC	1946803965
SNP_P4_48233_25968923	NC_021163.1	Ca_kabuli_chr04	25968923	TT	CC	1946803967

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_48235_25969138	NC_021163.1	Ca_kabuli_chr04	25969138	TT	CC	1946803971
SNP_P4_48236_25969257	NC_021163.1	Ca_kabuli_chr04	25969257	AA	GG	1946803972
SNP_P4_48237_25969297	NC_021163.1	Ca_kabuli_chr04	25969297	GG	AA	1946803973
SNP_P4_48238_25969321	NC_021163.1	Ca_kabuli_chr04	25969321	AA	GG	1946803974
SNP_P4_48239_25969326	NC_021163.1	Ca_kabuli_chr04	25969326	GG	AA	1946803976
SNP_P4_48240_25969351	NC_021163.1	Ca_kabuli_chr04	25969351	GG	TT	1946803978
SNP_P4_48241_25969370	NC_021163.1	Ca_kabuli_chr04	25969370	CC	AA	1946803980
SNP_P4_48242_25969373	NC_021163.1	Ca_kabuli_chr04	25969373	TT	CC	1946803982
SNP_P4_48243_25969489	NC_021163.1	Ca_kabuli_chr04	25969489	CC	AA	1946803984
SNP_P4_48245_25969551	NC_021163.1	Ca_kabuli_chr04	25969551	GG	AA	1946803986
SNP_P4_48246_25969578	NC_021163.1	Ca_kabuli_chr04	25969578	CC	TT	1946803988
SNP_P4_48247_25969613	NC_021163.1	Ca_kabuli_chr04	25969613	CC	TT	1946803991
SNP_P4_48248_25969625	NC_021163.1	Ca_kabuli_chr04	25969625	CC	TT	1946803993
SNP_P4_48249_25969630	NC_021163.1	Ca_kabuli_chr04	25969630	GG	AA	1946803995
SNP_P4_48250_25969715	NC_021163.1	Ca_kabuli_chr04	25969715	GG	AA	1946803997
SNP_P4_48251_25969738	NC_021163.1	Ca_kabuli_chr04	25969738	AA	GG	1946803999
SNP_P4_48252_25969813	NC_021163.1	Ca_kabuli_chr04	25969813	AA	GG	1946804001
SNP_P4_48253_25969849	NC_021163.1	Ca_kabuli_chr04	25969849	TT	CC	1946804003
SNP_P4_48254_25969872	NC_021163.1	Ca_kabuli_chr04	25969872	AA	GG	1946804006
SNP_P4_48255_25969892	NC_021163.1	Ca_kabuli_chr04	25969892	AA	GG	1946804008
SNP_P4_48256_25970135	NC_021163.1	Ca_kabuli_chr04	25970135	AA	GG	1946804010
SNP_P4_48258_25970296	NC_021163.1	Ca_kabuli_chr04	25970296	CC	TT	1946804012
SNP_P4_48259_25970386	NC_021163.1	Ca_kabuli_chr04	25970386	GG	AA	1946804014
SNP_P4_48260_25970396	NC_021163.1	Ca_kabuli_chr04	25970396	CC	TT	1946804016
SNP_P4_48261_25970399	NC_021163.1	Ca_kabuli_chr04	25970399	GG	AA	1946804018
SNP_P4_48262_25970426	NC_021163.1	Ca_kabuli_chr04	25970426	CC	AA	1946804020
SNP_P4_48263_25970467	NC_021163.1	Ca_kabuli_chr04	25970467	AA	CC	1946804023
SNP_P4_48264_25970527	NC_021163.1	Ca_kabuli_chr04	25970527	CC	AA	1946804025
SNP_P4_48265_25970562	NC_021163.1	Ca_kabuli_chr04	25970562	TT	GG	1946804027
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SNP_P4_48269_25970609	NC_021163.1	Ca_kabuli_chr04	25970609	AA	CC	1946804035
SNP_P4_48270_25970671	NC_021163.1	Ca_kabuli_chr04	25970671	GG	AA	1946804037
SNP_P4_48271_25970730	NC_021163.1	Ca_kabuli_chr04	25970730	TT	GG	1946804040
SNP_P4_48272_25970766	NC_021163.1	Ca_kabuli_chr04	25970766	AA	GG	1946804042
SNP_P4_48273_25970795	NC_021163.1	Ca_kabuli_chr04	25970795	CC	AA	1946804045
SNP_P4_48274_25970855	NC_021163.1	Ca_kabuli_chr04	25970855	GG	AA	1946804047
SNP_P4_48275_25970866	NC_021163.1	Ca_kabuli_chr04	25970866	AA	CC	1946804049
SNP_P4_48276_25970867	NC_021163.1	Ca_kabuli_chr04	25970867	CC	TT	1946804051
SNP_P4_48277_25970880	NC_021163.1	Ca_kabuli_chr04	25970880	GG	AA	1946804053

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_48279_25970917	NC_021163.1	Ca_kabuli_chr04	25970917	TT	AA	1946804058
SNP_P4_48280_25970943	NC_021163.1	Ca_kabuli_chr04	25970943	TT	AA	1946804060
SNP_P4_48281_25970944	NC_021163.1	Ca_kabuli_chr04	25970944	AA	TT	1946804062
SNP_P4_48282_25970957	NC_021163.1	Ca_kabuli_chr04	25970957	TT	CC	1946804064
SNP_P4_48283_25971024	NC_021163.1	Ca_kabuli_chr04	25971024	GG	TT	1946804066
SNP_P4_48284_25971030	NC_021163.1	Ca_kabuli_chr04	25971030	CC	TT	1946804068
SNP_P4_48285_25971077	NC_021163.1	Ca_kabuli_chr04	25971077	TT	CC	1946804070
SNP_P4_48286_25971140	NC_021163.1	Ca_kabuli_chr04	25971140	TT	CC	1946804072
SNP_P4_48287_25971158	NC_021163.1	Ca_kabuli_chr04	25971158	GG	AA	1946804074
SNP_P4_48288_25971179	NC_021163.1	Ca_kabuli_chr04	25971179	CC	AA	1946804076
SNP_P4_48289_25971221	NC_021163.1	Ca_kabuli_chr04	25971221	TT	CC	1946804078
SNP_P4_48291_25971301	NC_021163.1	Ca_kabuli_chr04	25971301	GG	CC	1946804080
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SNP_P4_48293_25971402	NC_021163.1	Ca_kabuli_chr04	25971402	TT	GG	1946804085
SNP_P4_48294_25971651	NC_021163.1	Ca_kabuli_chr04	25971651	TT	CC	1946804087
SNP_P4_48295_25971711	NC_021163.1	Ca_kabuli_chr04	25971711	TT	GG	1946804089
SNP_P4_48296_25971778	NC_021163.1	Ca_kabuli_chr04	25971778	AA	CC	1946804091
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SNP_P4_48299_25971914	NC_021163.1	Ca_kabuli_chr04	25971914	GG	AA	1946804095
SNP_P4_48300_25971935	NC_021163.1	Ca_kabuli_chr04	25971935	GG	TT	1946804097
SNP_P4_48301_25971970	NC_021163.1	Ca_kabuli_chr04	25971970	AA	CC	1946804098
SNP_P4_48302_25971982	NC_021163.1	Ca_kabuli_chr04	25971982	AA	GG	1946804099
SNP_P4_48303_25972027	NC_021163.1	Ca_kabuli_chr04	25972027	CC	TT	1946804100
SNP_P4_48304_25972028	NC_021163.1	Ca_kabuli_chr04	25972028	AA	GG	1946804102
SNP_P4_48305_25972067	NC_021163.1	Ca_kabuli_chr04	25972067	CC	AA	1946804104
SNP_P4_48306_25972073	NC_021163.1	Ca_kabuli_chr04	25972073	GG	TT	1946804106
SNP_P4_48307_25972099	NC_021163.1	Ca_kabuli_chr04	25972099	TT	AA	1946804108
SNP_P4_48308_25972155	NC_021163.1	Ca_kabuli_chr04	25972155	TT	CC	1946804110
SNP_P4_48309_25972173	NC_021163.1	Ca_kabuli_chr04	25972173	CC	AA	1946804112
SNP_P4_48310_25972204	NC_021163.1	Ca_kabuli_chr04	25972204	CC	AA	1946804114
SNP_P4_48311_25972211	NC_021163.1	Ca_kabuli_chr04	25972211	GG	TT	1946804116
SNP_P4_48312_25972223	NC_021163.1	Ca_kabuli_chr04	25972223	AA	CC	1946804118
SNP_P4_48313_25972505	NC_021163.1	Ca_kabuli_chr04	25972505	CC	AA	1946804120
SNP_P4_48314_25972702	NC_021163.1	Ca_kabuli_chr04	25972702	AA	GG	1946804122
SNP_P4_48315_25972745	NC_021163.1	Ca_kabuli_chr04	25972745	AA	GG	1946804124
SNP_P4_48316_25973013	NC_021163.1	Ca_kabuli_chr04	25973013	AA	TT	1946804126
SNP_P4_48317_25973395	NC_021163.1	Ca_kabuli_chr04	25973395	CC	TT	1946804128
SNP_P4_48318_25973398	NC_021163.1	Ca_kabuli_chr04	25973398	TT	CC	1946804130
SNP_P4_48320_25973415	NC_021163.1	Ca_kabuli_chr04	25973415	AA	GG	1946804132
SNP_P4_48321_25973522	NC_021163.1	Ca_kabuli_chr04	25973522	AA	TT	1946804134
SNP_P4_48322_25973588	NC_021163.1	Ca_kabuli_chr04	25973588	TT	AA	1946804136

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_48323_25973671	NC_021163.1	Ca_kabuli_chr04	25973671	CC	TT	1946804138
SNP_P4_48324_25973933	NC_021163.1	Ca_kabuli_chr04	25973933	TT	CC	1946804140
SNP_P4_48325_25973984	NC_021163.1	Ca_kabuli_chr04	25973984	TT	CC	1946804142
SNP_P4_48326_25973985	NC_021163.1	Ca_kabuli_chr04	25973985	TT	CC	1946804144
SNP_P4_48327_25974035	NC_021163.1	Ca_kabuli_chr04	25974035	GG	CC	1946804146
SNP_P4_48328_25974065	NC_021163.1	Ca_kabuli_chr04	25974065	GG	TT	1946804148
SNP_P4_48330_25974143	NC_021163.1	Ca_kabuli_chr04	25974143	AA	GG	1946804150
SNP_P4_48331_25974174	NC_021163.1	Ca_kabuli_chr04	25974174	GG	AA	1946804152
SNP_P4_48332_25974226	NC_021163.1	Ca_kabuli_chr04	25974226	CC	TT	1946804154
SNP_P4_48333_25974300	NC_021163.1	Ca_kabuli_chr04	25974300	GG	AA	1946804156
SNP_P4_48334_25974320	NC_021163.1	Ca_kabuli_chr04	25974320	GG	AA	1946804158
SNP_P4_48335_25974357	NC_021163.1	Ca_kabuli_chr04	25974357	TT	CC	1946804160
SNP_P4_48336_25974649	NC_021163.1	Ca_kabuli_chr04	25974649	TT	CC	1946804162
SNP_P4_48337_25974728	NC_021163.1	Ca_kabuli_chr04	25974728	CC	TT	1946804164
SNP_P4_48338_25974771	NC_021163.1	Ca_kabuli_chr04	25974771	GG	AA	1946804166
SNP_P4_48339_25974777	NC_021163.1	Ca_kabuli_chr04	25974777	TT	CC	1946804168
SNP_P4_48340_25974803	NC_021163.1	Ca_kabuli_chr04	25974803	AA	GG	1946804170
SNP_P4_48341_25974945	NC_021163.1	Ca_kabuli_chr04	25974945	CC	GG	1946804173
SNP_P4_48342_25974960	NC_021163.1	Ca_kabuli_chr04	25974960	GG	TT	1946804175
SNP_P4_48343_25975083	NC_021163.1	Ca_kabuli_chr04	25975083	AA	GG	1946804177
SNP_P4_48344_25975092	NC_021163.1	Ca_kabuli_chr04	25975092	TT	CC	1946804179
SNP_P4_48346_25975245	NC_021163.1	Ca_kabuli_chr04	25975245	CC	TT	1946804181
SNP_P4_48347_25975267	NC_021163.1	Ca_kabuli_chr04	25975267	CC	TT	1946804183
SNP_P4_48348_25975280	NC_021163.1	Ca_kabuli_chr04	25975280	CC	TT	1946804185
SNP_P4_48349_25975282	NC_021163.1	Ca_kabuli_chr04	25975282	GG	AA	1946804187
SNP_P4_48350_25975305	NC_021163.1	Ca_kabuli_chr04	25975305	AA	GG	1946804189
SNP_P4_48351_25975319	NC_021163.1	Ca_kabuli_chr04	25975319	CC	TT	1946804191
SNP_P4_48352_25975339	NC_021163.1	Ca_kabuli_chr04	25975339	GG	TT	1946804194
SNP_P4_48353_25975391	NC_021163.1	Ca_kabuli_chr04	25975391	AA	CC	1946804196
SNP_P4_48354_25975479	NC_021163.1	Ca_kabuli_chr04	25975479	AA	GG	1946804198
SNP_P4_48355_25975484	NC_021163.1	Ca_kabuli_chr04	25975484	CC	TT	1946804200
SNP_P4_48356_25975487	NC_021163.1	Ca_kabuli_chr04	25975487	GG	TT	1946804202
SNP_P4_48357_25975550	NC_021163.1	Ca_kabuli_chr04	25975550	GG	TT	1946804204
SNP_P4_48358_25975582	NC_021163.1	Ca_kabuli_chr04	25975582	CC	TT	1946804206
SNP_P4_48359_25975601	NC_021163.1	Ca_kabuli_chr04	25975601	TT	CC	1946804208
SNP_P4_48360_25975675	NC_021163.1	Ca_kabuli_chr04	25975675	GG	CC	1946804210
SNP_P4_48361_25975878	NC_021163.1	Ca_kabuli_chr04	25975878	CC	TT	1946804212
SNP_P4_48363_25976487	NC_021163.1	Ca_kabuli_chr04	25976487	CC	AA	1946804214
SNP_P4_48364_25976524	NC_021163.1	Ca_kabuli_chr04	25976524	GG	AA	1946804217
SNP_P4_48365_25976744	NC_021163.1	Ca_kabuli_chr04	25976744	AA	GG	1946804219
SNP_P4_48366_25976767	NC_021163.1	Ca_kabuli_chr04	25976767	GG	AA	1946804221
SNP_P4_48367_25976885	NC_021163.1	Ca_kabuli_chr04	25976885	CC	TT	1946804223

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_48369_25977012	NC_021163.1	Ca_kabuli_chr04	25977012	AA	GG	1946804227
SNP_P4_48370_25977122	NC_021163.1	Ca_kabuli_chr04	25977122	TT	AA	1946804229
SNP_P4_48371_25977322	NC_021163.1	Ca_kabuli_chr04	25977322	TT	GG	1946804231
SNP_P4_48372_25977345	NC_021163.1	Ca_kabuli_chr04	25977345	TT	CC	1946804233
SNP_P4_48373_25977508	NC_021163.1	Ca_kabuli_chr04	25977508	TT	CC	1946804235
SNP_P4_48374_25977545	NC_021163.1	Ca_kabuli_chr04	25977545	GG	TT	1946804237
SNP_P4_48375_25977819	NC_021163.1	Ca_kabuli_chr04	25977819	TT	CC	1946804239
SNP_P4_48376_25977915	NC_021163.1	Ca_kabuli_chr04	25977915	GG	CC	1946804241
SNP_P4_48377_25977932	NC_021163.1	Ca_kabuli_chr04	25977932	AA	TT	1946804244
SNP_P4_48378_25978079	NC_021163.1	Ca_kabuli_chr04	25978079	GG	AA	1946804246
SNP_P4_48379_25978130	NC_021163.1	Ca_kabuli_chr04	25978130	GG	TT	1946804248
SNP_P4_48381_25978520	NC_021163.1	Ca_kabuli_chr04	25978520	TT	CC	1946804250
SNP_P4_48382_25978751	NC_021163.1	Ca_kabuli_chr04	25978751	TT	CC	1946804252
SNP_P4_48383_25978919	NC_021163.1	Ca_kabuli_chr04	25978919	AA	CC	1946804254
SNP_P4_48384_25978935	NC_021163.1	Ca_kabuli_chr04	25978935	GG	AA	1946804256
SNP_P4_48385_25978974	NC_021163.1	Ca_kabuli_chr04	25978974	TT	GG	1946804258
SNP_P4_48386_25979093	NC_021163.1	Ca_kabuli_chr04	25979093	AA	TT	1946804260
SNP_P4_48387_25979184	NC_021163.1	Ca_kabuli_chr04	25979184	CC	AA	1946804262
SNP_P4_48388_25979225	NC_021163.1	Ca_kabuli_chr04	25979225	CC	TT	1946804264
SNP_P4_48389_25979313	NC_021163.1	Ca_kabuli_chr04	25979313	GG	AA	1946804266
SNP_P4_48390_25979324	NC_021163.1	Ca_kabuli_chr04	25979324	GG	AA	1946804268
SNP_P4_48391_25979377	NC_021163.1	Ca_kabuli_chr04	25979377	GG	CC	1946804270
SNP_P4_48392_25979582	NC_021163.1	Ca_kabuli_chr04	25979582	CC	TT	1946804272
SNP_P4_48393_25979606	NC_021163.1	Ca_kabuli_chr04	25979606	TT	AA	1946804274
SNP_P4_48394_25979657	NC_021163.1	Ca_kabuli_chr04	25979657	AA	GG	1946804276
SNP_P4_48396_25979943	NC_021163.1	Ca_kabuli_chr04	25979943	AA	CC	1946804278
SNP_P4_48397_25979949	NC_021163.1	Ca_kabuli_chr04	25979949	CC	TT	1946804280
SNP_P4_48398_25980075	NC_021163.1	Ca_kabuli_chr04	25980075	CC	TT	1946804282
SNP_P4_48399_25980196	NC_021163.1	Ca_kabuli_chr04	25980196	AA	TT	1946804284
SNP_P4_48400_25980550	NC_021163.1	Ca_kabuli_chr04	25980550	CC	TT	1946804286
SNP_P4_48401_25980630	NC_021163.1	Ca_kabuli_chr04	25980630	CC	TT	1946804288
SNP_P4_48402_25980796	NC_021163.1	Ca_kabuli_chr04	25980796	CC	AA	1946804290
SNP_P4_48403_25980965	NC_021163.1	Ca_kabuli_chr04	25980965	GG	AA	1946804292
SNP_P4_48404_25980995	NC_021163.1	Ca_kabuli_chr04	25980995	GG	AA	1946804294
SNP_P4_48405_25981293	NC_021163.1	Ca_kabuli_chr04	25981293	AA	TT	1946804296
SNP_P4_48406_25981530	NC_021163.1	Ca_kabuli_chr04	25981530	CC	TT	1946804299
SNP_P4_48407_25981533	NC_021163.1	Ca_kabuli_chr04	25981533	GG	AA	1946804301
SNP_P4_48408_25981534	NC_021163.1	Ca_kabuli_chr04	25981534	GG	AA	1946804303
SNP_P4_48409_25981541	NC_021163.1	Ca_kabuli_chr04	25981541	AA	CC	1946804305
SNP_P4_48410_25981653	NC_021163.1	Ca_kabuli_chr04	25981653	AA	CC	1946804307
SNP_P4_48411_25981679	NC_021163.1	Ca_kabuli_chr04	25981679	GG	AA	1946804309

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_48413_25981891	NC_021163.1	Ca_kabuli_chr04	25981891	GG	AA	1946804313
SNP_P4_48414_25981973	NC_021163.1	Ca_kabuli_chr04	25981973	AA	GG	1946804315
SNP_P4_48415_25981974	NC_021163.1	Ca_kabuli_chr04	25981974	TT	CC	1946804317
SNP_P4_48416_25982065	NC_021163.1	Ca_kabuli_chr04	25982065	GG	AA	1946804319
SNP_P4_48417_25982121	NC_021163.1	Ca_kabuli_chr04	25982121	AA	TT	1946804321
SNP_P4_48418_25982137	NC_021163.1	Ca_kabuli_chr04	25982137	TT	CC	1946804324
SNP_P4_48419_25982149	NC_021163.1	Ca_kabuli_chr04	25982149	CC	TT	1946804326
SNP_P4_48420_25982188	NC_021163.1	Ca_kabuli_chr04	25982188	CC	TT	1946804328
SNP_P4_48421_25982226	NC_021163.1	Ca_kabuli_chr04	25982226	CC	AA	1946804330
SNP_P4_48422_25982275	NC_021163.1	Ca_kabuli_chr04	25982275	GG	AA	1946804332
SNP_P4_48423_25982330	NC_021163.1	Ca_kabuli_chr04	25982330	AA	GG	1946804334
SNP_P4_48425_25982534	NC_021163.1	Ca_kabuli_chr04	25982534	GG	AA	1946804336
SNP_P4_48426_25982538	NC_021163.1	Ca_kabuli_chr04	25982538	GG	AA	1946804338
SNP_P4_48427_25982573	NC_021163.1	Ca_kabuli_chr04	25982573	CC	TT	1946804340
SNP_P4_48428_25982587	NC_021163.1	Ca_kabuli_chr04	25982587	GG	TT	1946804343
SNP_P4_48429_25982670	NC_021163.1	Ca_kabuli_chr04	25982670	AA	GG	1946804345
SNP_P4_48430_25982678	NC_021163.1	Ca_kabuli_chr04	25982678	CC	AA	1946804347
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SNP_P4_48432_25982697	NC_021163.1	Ca_kabuli_chr04	25982697	AA	GG	1946804351
SNP_P4_48434_25982763	NC_021163.1	Ca_kabuli_chr04	25982763	TT	CC	1946804353
SNP_P4_48435_25982767	NC_021163.1	Ca_kabuli_chr04	25982767	TT	AA	1946804355
SNP_P4_48436_25982774	NC_021163.1	Ca_kabuli_chr04	25982774	AA	TT	1946804357
SNP_P4_48437_25982797	NC_021163.1	Ca_kabuli_chr04	25982797	CC	GG	1946804359
SNP_P4_48438_25982943	NC_021163.1	Ca_kabuli_chr04	25982943	AA	CC	1946804361
SNP_P4_48439_25982960	NC_021163.1	Ca_kabuli_chr04	25982960	CC	TT	1946804363
SNP_P4_48440_25982968	NC_021163.1	Ca_kabuli_chr04	25982968	AA	GG	1946804366
SNP_P4_48441_25983045	NC_021163.1	Ca_kabuli_chr04	25983045	AA	CC	1946804368
SNP_P4_48442_25983110	NC_021163.1	Ca_kabuli_chr04	25983110	TT	AA	1946804370
SNP_P4_48443_25983119	NC_021163.1	Ca_kabuli_chr04	25983119	CC	AA	1946804372
SNP_P4_48444_25983139	NC_021163.1	Ca_kabuli_chr04	25983139	CC	TT	1946804374
SNP_P4_48445_25983311	NC_021163.1	Ca_kabuli_chr04	25983311	AA	GG	1946804376
SNP_P4_48446_25983366	NC_021163.1	Ca_kabuli_chr04	25983366	TT	CC	1946804378
SNP_P4_48447_25983525	NC_021163.1	Ca_kabuli_chr04	25983525	TT	GG	1946804380
SNP_P4_48448_25983541	NC_021163.1	Ca_kabuli_chr04	25983541	TT	GG	1946804382
SNP_P4_48449_25983567	NC_021163.1	Ca_kabuli_chr04	25983567	TT	GG	1946804384
SNP_P4_48450_25983581	NC_021163.1	Ca_kabuli_chr04	25983581	TT	GG	1946804386
SNP_P4_48451_25983691	NC_021163.1	Ca_kabuli_chr04	25983691	AA	GG	1946804389
SNP_P4_48452_25983776	NC_021163.1	Ca_kabuli_chr04	25983776	TT	GG	1946804391
SNP_P4_48453_25983787	NC_021163.1	Ca_kabuli_chr04	25983787	TT	AA	1946804393
SNP_P4_48454_25983788	NC_021163.1	Ca_kabuli_chr04	25983788	TT	AA	1946804395
SNP_P4_48455_25983825	NC_021163.1	Ca_kabuli_chr04	25983825	CC	AA	1946804397

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_48457_25983911	NC_021163.1	Ca_kabuli_chr04	25983911	GG	AA	1946804401
SNP_P4_48458_25983972	NC_021163.1	Ca_kabuli_chr04	25983972	CC	TT	1946804403
SNP_P4_48459_25983975	NC_021163.1	Ca_kabuli_chr04	25983975	CC	GG	1946804405
SNP_P4_48460_25983978	NC_021163.1	Ca_kabuli_chr04	25983978	GG	TT	1946804407
SNP_P4_48461_25983994	NC_021163.1	Ca_kabuli_chr04	25983994	CC	AA	1946804409
SNP_P4_48462_25984010	NC_021163.1	Ca_kabuli_chr04	25984010	AA	TT	1946804411
SNP_P4_48463_25984012	NC_021163.1	Ca_kabuli_chr04	25984012	GG	AA	1946804412
SNP_P4_48464_25984015	NC_021163.1	Ca_kabuli_chr04	25984015	CC	AA	1946804414
SNP_P4_48465_25984043	NC_021163.1	Ca_kabuli_chr04	25984043	TT	CC	1946804416
SNP_P4_48466_25984118	NC_021163.1	Ca_kabuli_chr04	25984118	GG	AA	1946804418
SNP_P4_48467_25984139	NC_021163.1	Ca_kabuli_chr04	25984139	CC	TT	1946804420
SNP_P4_48468_25984180	NC_021163.1	Ca_kabuli_chr04	25984180	TT	AA	1946804422
SNP_P4_48470_25984211	NC_021163.1	Ca_kabuli_chr04	25984211	TT	CC	1946804424
SNP_P4_48471_25984285	NC_021163.1	Ca_kabuli_chr04	25984285	TT	AA	1946804426
SNP_P4_48472_25984330	NC_021163.1	Ca_kabuli_chr04	25984330	GG	AA	1946804428
SNP_P4_48473_25984368	NC_021163.1	Ca_kabuli_chr04	25984368	GG	AA	1946804431
SNP_P4_48474_25984403	NC_021163.1	Ca_kabuli_chr04	25984403	CC	TT	1946804433
SNP_P4_48476_25984623	NC_021163.1	Ca_kabuli_chr04	25984623	AA	GG	1946804435
SNP_P4_48477_25984647	NC_021163.1	Ca_kabuli_chr04	25984647	AA	GG	1946804437
SNP_P4_48478_25984679	NC_021163.1	Ca_kabuli_chr04	25984679	TT	GG	1946804439
SNP_P4_48479_25984680	NC_021163.1	Ca_kabuli_chr04	25984680	CC	TT	1946804441
SNP_P4_48480_25984785	NC_021163.1	Ca_kabuli_chr04	25984785	AA	CC	1946804443
SNP_P4_48481_25984857	NC_021163.1	Ca_kabuli_chr04	25984857	GG	AA	1946804445
SNP_P4_48482_25984933	NC_021163.1	Ca_kabuli_chr04	25984933	CC	GG	1946804447
SNP_P4_48483_25984965	NC_021163.1	Ca_kabuli_chr04	25984965	CC	TT	1946804449
SNP_P4_48484_25984985	NC_021163.1	Ca_kabuli_chr04	25984985	TT	CC	1946804451
SNP_P4_48485_25985017	NC_021163.1	Ca_kabuli_chr04	25985017	GG	AA	1946804453
SNP_P4_48486_25985099	NC_021163.1	Ca_kabuli_chr04	25985099	TT	GG	1946804455
SNP_P4_48487_25985120	NC_021163.1	Ca_kabuli_chr04	25985120	CC	AA	1946804457
SNP_P4_48488_25985217	NC_021163.1	Ca_kabuli_chr04	25985217	GG	AA	1946804459
SNP_P4_48489_25985231	NC_021163.1	Ca_kabuli_chr04	25985231	TT	CC	1946804461
SNP_P4_48490_25985465	NC_021163.1	Ca_kabuli_chr04	25985465	TT	CC	1946804463
SNP_P4_48491_25985469	NC_021163.1	Ca_kabuli_chr04	25985469	TT	CC	1946804465
SNP_P4_48492_25985484	NC_021163.1	Ca_kabuli_chr04	25985484	CC	GG	1946804467
SNP_P4_48493_25985498	NC_021163.1	Ca_kabuli_chr04	25985498	CC	TT	1946804469
SNP_P4_48494_25985500	NC_021163.1	Ca_kabuli_chr04	25985500	CC	TT	1946804471
SNP_P4_48495_25985801	NC_021163.1	Ca_kabuli_chr04	25985801	TT	CC	1946804473
SNP_P4_48496_25985819	NC_021163.1	Ca_kabuli_chr04	25985819	AA	CC	1946804475
SNP_P4_48497_25985871	NC_021163.1	Ca_kabuli_chr04	25985871	TT	GG	1946804477
SNP_P4_48498_25985982	NC_021163.1	Ca_kabuli_chr04	25985982	GG	AA	1946804479
SNP_P4_48499_25986031	NC_021163.1	Ca_kabuli_chr04	25986031	TT	CC	1946804481

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_48501_25986063	NC_021163.1	Ca_kabuli_chr04	25986063	AA	CC	1946804485
SNP_P4_48502_25986124	NC_021163.1	Ca_kabuli_chr04	25986124	CC	AA	1946804487
SNP_P4_48503_25986176	NC_021163.1	Ca_kabuli_chr04	25986176	TT	CC	1946804489
SNP_P4_48504_25986382	NC_021163.1	Ca_kabuli_chr04	25986382	CC	TT	1946804491
SNP_P4_48505_25986503	NC_021163.1	Ca_kabuli_chr04	25986503	GG	CC	1946804493
SNP_P4_48506_25986623	NC_021163.1	Ca_kabuli_chr04	25986623	GG	AA	1946804496
SNP_P4_48507_25986658	NC_021163.1	Ca_kabuli_chr04	25986658	TT	GG	1946804498
SNP_P4_48508_25986858	NC_021163.1	Ca_kabuli_chr04	25986858	AA	GG	1946804500
SNP_P4_48509_25986900	NC_021163.1	Ca_kabuli_chr04	25986900	TT	GG	1946804502
SNP_P4_48510_25986904	NC_021163.1	Ca_kabuli_chr04	25986904	GG	CC	1946804504
SNP_P4_48511_25987121	NC_021163.1	Ca_kabuli_chr04	25987121	GG	AA	1946804506
SNP_P4_48513_25987138	NC_021163.1	Ca_kabuli_chr04	25987138	TT	AA	1946804508
SNP_P4_48514_25987151	NC_021163.1	Ca_kabuli_chr04	25987151	TT	CC	1946804510
SNP_P4_48515_25987159	NC_021163.1	Ca_kabuli_chr04	25987159	AA	TT	1946804512
SNP_P4_48516_25987187	NC_021163.1	Ca_kabuli_chr04	25987187	TT	AA	1946804514
SNP_P4_48517_25987285	NC_021163.1	Ca_kabuli_chr04	25987285	TT	GG	1946804516
SNP_P4_48518_25987336	NC_021163.1	Ca_kabuli_chr04	25987336	CC	TT	1946804518
SNP_P4_48519_25987341	NC_021163.1	Ca_kabuli_chr04	25987341	GG	AA	1946804520
SNP_P4_48520_25987513	NC_021163.1	Ca_kabuli_chr04	25987513	TT	GG	1946804522
SNP_P4_48521_25987529	NC_021163.1	Ca_kabuli_chr04	25987529	GG	AA	1946804524
SNP_P4_48522_25987571	NC_021163.1	Ca_kabuli_chr04	25987571	GG	AA	1946804526
SNP_P4_48523_25987575	NC_021163.1	Ca_kabuli_chr04	25987575	AA	GG	1946804528
SNP_P4_48525_25987634	NC_021163.1	Ca_kabuli_chr04	25987634	TT	CC	1946804530
SNP_P4_48526_25987706	NC_021163.1	Ca_kabuli_chr04	25987706	AA	CC	1946804532
SNP_P4_48527_25987773	NC_021163.1	Ca_kabuli_chr04	25987773	GG	TT	1946804534
SNP_P4_48529_25987914	NC_021163.1	Ca_kabuli_chr04	25987914	CC	TT	1946804536
SNP_P4_48530_25987961	NC_021163.1	Ca_kabuli_chr04	25987961	TT	CC	1946804538
SNP_P4_48531_25988031	NC_021163.1	Ca_kabuli_chr04	25988031	GG	CC	1946804541
SNP_P4_48532_25988033	NC_021163.1	Ca_kabuli_chr04	25988033	TT	AA	1946804543
SNP_P4_48534_25989057	NC_021163.1	Ca_kabuli_chr04	25989057	CC	TT	1946804545
SNP_P4_48535_25989121	NC_021163.1	Ca_kabuli_chr04	25989121	TT	CC	1946804547
SNP_P4_48536_25989226	NC_021163.1	Ca_kabuli_chr04	25989226	CC	TT	1946804549
SNP_P4_48537_25989271	NC_021163.1	Ca_kabuli_chr04	25989271	CC	TT	1946804551
SNP_P4_48540_25989354	NC_021163.1	Ca_kabuli_chr04	25989354	GG	TT	1946804553
SNP_P4_48541_25989461	NC_021163.1	Ca_kabuli_chr04	25989461	TT	CC	1946804555
SNP_P4_48542_25989518	NC_021163.1	Ca_kabuli_chr04	25989518	AA	CC	1946804557
SNP_P4_48543_25989602	NC_021163.1	Ca_kabuli_chr04	25989602	CC	TT	1946804559
SNP_P4_48544_25989998	NC_021163.1	Ca_kabuli_chr04	25989998	GG	AA	1946804562
SNP_P4_48545_25990052	NC_021163.1	Ca_kabuli_chr04	25990052	CC	AA	1946804564
SNP_P4_48546_25990055	NC_021163.1	Ca_kabuli_chr04	25990055	TT	CC	1946804566
SNP_P4_48547_25990107	NC_021163.1	Ca_kabuli_chr04	25990107	AA	GG	1946804568

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_48550_25990259	NC_021163.1	Ca_kabuli_chr04	25990259	AA	GG	1946804572
SNP_P4_48551_25990267	NC_021163.1	Ca_kabuli_chr04	25990267	TT	AA	1946804574
SNP_P4_48552_25990277	NC_021163.1	Ca_kabuli_chr04	25990277	TT	GG	1946804576
SNP_P4_48553_25990343	NC_021163.1	Ca_kabuli_chr04	25990343	CC	TT	1946804579
SNP_P4_48554_25990353	NC_021163.1	Ca_kabuli_chr04	25990353	TT	CC	1946804581
SNP_P4_48555_25990401	NC_021163.1	Ca_kabuli_chr04	25990401	AA	TT	1946804583
SNP_P4_48556_25990429	NC_021163.1	Ca_kabuli_chr04	25990429	GG	AA	1946804585
SNP_P4_48557_25990450	NC_021163.1	Ca_kabuli_chr04	25990450	GG	AA	1946804587
SNP_P4_48558_25990556	NC_021163.1	Ca_kabuli_chr04	25990556	CC	TT	1946804589
SNP_P4_48559_25990592	NC_021163.1	Ca_kabuli_chr04	25990592	AA	GG	1946804591
SNP_P4_48560_25990670	NC_021163.1	Ca_kabuli_chr04	25990670	CC	TT	1946804593
SNP_P4_48561_25990720	NC_021163.1	Ca_kabuli_chr04	25990720	AA	GG	1946804595
SNP_P4_48562_25990816	NC_021163.1	Ca_kabuli_chr04	25990816	CC	GG	1946804597
SNP_P4_48563_25990827	NC_021163.1	Ca_kabuli_chr04	25990827	GG	CC	1946804599
SNP_P4_48564_25990879	NC_021163.1	Ca_kabuli_chr04	25990879	TT	GG	1946804601
SNP_P4_48565_25991026	NC_021163.1	Ca_kabuli_chr04	25991026	AA	GG	1946804603
SNP_P4_48566_25991032	NC_021163.1	Ca_kabuli_chr04	25991032	CC	TT	1946804605
SNP_P4_48567_25991039	NC_021163.1	Ca_kabuli_chr04	25991039	AA	GG	1946804607
SNP_P4_48568_25991056	NC_021163.1	Ca_kabuli_chr04	25991056	GG	TT	1946804609
SNP_P4_48569_25991375	NC_021163.1	Ca_kabuli_chr04	25991375	AA	TT	1946804611
SNP_P4_48570_25994294	NC_021163.1	Ca_kabuli_chr04	25994294	GG	AA	1946804613
SNP_P4_48571_25994341	NC_021163.1	Ca_kabuli_chr04	25994341	GG	AA	1946804615
SNP_P4_48573_25994468	NC_021163.1	Ca_kabuli_chr04	25994468	GG	CC	1946804617
SNP_P4_48575_25994645	NC_021163.1	Ca_kabuli_chr04	25994645	TT	CC	1946804619
SNP_P4_48576_25994652	NC_021163.1	Ca_kabuli_chr04	25994652	CC	TT	1946804621
SNP_P4_48578_25994789	NC_021163.1	Ca_kabuli_chr04	25994789	AA	GG	1946804623
SNP_P4_48579_25995054	NC_021163.1	Ca_kabuli_chr04	25995054	TT	AA	1946804625
SNP_P4_48581_25995103	NC_021163.1	Ca_kabuli_chr04	25995103	CC	TT	1946804627
SNP_P4_48582_25995382	NC_021163.1	Ca_kabuli_chr04	25995382	CC	GG	1946804630
SNP_P4_48583_25995406	NC_021163.1	Ca_kabuli_chr04	25995406	TT	CC	1946804632
SNP_P4_48584_25995425	NC_021163.1	Ca_kabuli_chr04	25995425	GG	TT	1946804634
SNP_P4_48585_25995457	NC_021163.1	Ca_kabuli_chr04	25995457	GG	AA	1946804636
SNP_P4_48586_25995499	NC_021163.1	Ca_kabuli_chr04	25995499	AA	GG	1946804638
SNP_P4_48587_25995694	NC_021163.1	Ca_kabuli_chr04	25995694	TT	GG	1946804640
SNP_P4_48588_25995698	NC_021163.1	Ca_kabuli_chr04	25995698	GG	AA	1946804643
SNP_P4_48589_25995728	NC_021163.1	Ca_kabuli_chr04	25995728	AA	GG	1946804645
SNP_P4_48590_25995781	NC_021163.1	Ca_kabuli_chr04	25995781	CC	TT	1946804647
SNP_P4_48592_25995843	NC_021163.1	Ca_kabuli_chr04	25995843	TT	CC	1946804649
SNP_P4_48593_25995985	NC_021163.1	Ca_kabuli_chr04	25995985	TT	AA	1946804651
SNP_P4_48594_25995986	NC_021163.1	Ca_kabuli_chr04	25995986	TT	AA	1946804653
SNP_P4_48595_25996071	NC_021163.1	Ca_kabuli_chr04	25996071	CC	GG	1946804655

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_48597_25997706	NC_021163.1	Ca_kabuli_chr04	25997706	CC	TT	1946804660
SNP_P4_48598_25997933	NC_021163.1	Ca_kabuli_chr04	25997933	AA	GG	1946804662
SNP_P4_48599_25997970	NC_021163.1	Ca_kabuli_chr04	25997970	AA	GG	1946804664
SNP_P4_48600_25999229	NC_021163.1	Ca_kabuli_chr04	25999229	CC	GG	1946804667
SNP_P4_48601_25999265	NC_021163.1	Ca_kabuli_chr04	25999265	TT	GG	1946804669
SNP_P4_48603_26002212	NC_021163.1	Ca_kabuli_chr04	26002212	TT	CC	1946804671
SNP_P4_48604_26002325	NC_021163.1	Ca_kabuli_chr04	26002325	GG	TT	1946804673
SNP_P4_48605_26002344	NC_021163.1	Ca_kabuli_chr04	26002344	GG	AA	1946804675
SNP_P4_48606_26009438	NC_021163.1	Ca_kabuli_chr04	26009438	TT	GG	1946804677
SNP_P4_48607_26009439	NC_021163.1	Ca_kabuli_chr04	26009439	TT	GG	1946804680
SNP_P4_48609_26010777	NC_021163.1	Ca_kabuli_chr04	26010777	CC	AA	1946804682
SNP_P4_48611_26011681	NC_021163.1	Ca_kabuli_chr04	26011681	GG	AA	1946804684
SNP_P4_48613_26012938	NC_021163.1	Ca_kabuli_chr04	26012938	GG	AA	1946804686
SNP_P4_48614_26013563	NC_021163.1	Ca_kabuli_chr04	26013563	TT	CC	1946804688
SNP_P4_48615_26017985	NC_021163.1	Ca_kabuli_chr04	26017985	TT	CC	1946804691
SNP_P4_48617_26018686	NC_021163.1	Ca_kabuli_chr04	26018686	AA	CC	1946804693
SNP_P4_48618_26018997	NC_021163.1	Ca_kabuli_chr04	26018997	CC	GG	1946804695
SNP_P4_48619_26019082	NC_021163.1	Ca_kabuli_chr04	26019082	AA	GG	1946804697
SNP_P4_48621_26020613	NC_021163.1	Ca_kabuli_chr04	26020613	TT	CC	1946804699
SNP_P4_48622_26021116	NC_021163.1	Ca_kabuli_chr04	26021116	TT	CC	1946804701
SNP_P4_48623_26023493	NC_021163.1	Ca_kabuli_chr04	26023493	AA	TT	1946804704
SNP_P4_48624_26023515	NC_021163.1	Ca_kabuli_chr04	26023515	TT	GG	1946804706
SNP_P4_48625_26025321	NC_021163.1	Ca_kabuli_chr04	26025321	CC	TT	1946804708
SNP_P4_48626_26025635	NC_021163.1	Ca_kabuli_chr04	26025635	TT	AA	1946804710
SNP_P4_48627_26025636	NC_021163.1	Ca_kabuli_chr04	26025636	AA	TT	1946804712
SNP_P4_48628_26029915	NC_021163.1	Ca_kabuli_chr04	26029915	AA	GG	1946804714
SNP_P4_48629_26029973	NC_021163.1	Ca_kabuli_chr04	26029973	TT	CC	1946804716
SNP_P4_48630_26030294	NC_021163.1	Ca_kabuli_chr04	26030294	TT	CC	1946804718
SNP_P4_48631_26030553	NC_021163.1	Ca_kabuli_chr04	26030553	GG	AA	1946804721
SNP_P4_48632_26030578	NC_021163.1	Ca_kabuli_chr04	26030578	AA	CC	1946804723
SNP_P4_48633_26030895	NC_021163.1	Ca_kabuli_chr04	26030895	CC	AA	1946804725
SNP_P4_48634_26030896	NC_021163.1	Ca_kabuli_chr04	26030896	AA	CC	1946804727
SNP_P4_48635_26031225	NC_021163.1	Ca_kabuli_chr04	26031225	AA	CC	1946804729
SNP_P4_48636_26031226	NC_021163.1	Ca_kabuli_chr04	26031226	AA	GG	1946804731
SNP_P4_48637_26031242	NC_021163.1	Ca_kabuli_chr04	26031242	AA	GG	1946804733
SNP_P4_48638_26031250	NC_021163.1	Ca_kabuli_chr04	26031250	AA	GG	1946804735
SNP_P4_48639_26031546	NC_021163.1	Ca_kabuli_chr04	26031546	CC	AA	1946804738
SNP_P4_48640_26031762	NC_021163.1	Ca_kabuli_chr04	26031762	AA	CC	1946804740
SNP_P4_48641_26035078	NC_021163.1	Ca_kabuli_chr04	26035078	CC	TT	1946804742
SNP_P4_48642_26036891	NC_021163.1	Ca_kabuli_chr04	26036891	CC	TT	1946804744
SNP_P4_48643_26037452	NC_021163.1	Ca_kabuli_chr04	26037452	TT	GG	1946804746

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_48645_26057971	NC_021163.1	Ca_kabuli_chr04	26057971	TT	CC	1946804751
SNP_P4_48647_26060530	NC_021163.1	Ca_kabuli_chr04	26060530	GG	AA	1946804753
SNP_P4_48648_26062707	NC_021163.1	Ca_kabuli_chr04	26062707	GG	TT	1946804755
SNP_P4_48649_26062710	NC_021163.1	Ca_kabuli_chr04	26062710	TT	GG	1946804757
SNP_P4_48650_26062977	NC_021163.1	Ca_kabuli_chr04	26062977	CC	TT	1946804760
SNP_P4_48651_26065248	NC_021163.1	Ca_kabuli_chr04	26065248	TT	CC	1946804762
SNP_P4_48652_26069323	NC_021163.1	Ca_kabuli_chr04	26069323	CC	GG	1946804764
SNP_P4_48653_26069472	NC_021163.1	Ca_kabuli_chr04	26069472	AA	TT	1946804767
SNP_P4_48654_26070404	NC_021163.1	Ca_kabuli_chr04	26070404	GG	AA	1946804769
SNP_P4_48655_26070405	NC_021163.1	Ca_kabuli_chr04	26070405	CC	TT	1946804772
SNP_P4_48656_26071730	NC_021163.1	Ca_kabuli_chr04	26071730	GG	AA	1946804774
SNP_P4_48658_26072512	NC_021163.1	Ca_kabuli_chr04	26072512	AA	GG	1946804776
SNP_P4_48659_26072542	NC_021163.1	Ca_kabuli_chr04	26072542	AA	TT	1946804778
SNP_P4_48660_26072890	NC_021163.1	Ca_kabuli_chr04	26072890	CC	AA	1946804781
SNP_P4_48661_26072900	NC_021163.1	Ca_kabuli_chr04	26072900	GG	AA	1946804783
SNP_P4_48662_26073631	NC_021163.1	Ca_kabuli_chr04	26073631	TT	CC	1946804785
SNP_P4_48665_26075602	NC_021163.1	Ca_kabuli_chr04	26075602	TT	AA	1946804787
SNP_P4_48666_26075612	NC_021163.1	Ca_kabuli_chr04	26075612	TT	AA	1946804790
SNP_P4_48668_26076223	NC_021163.1	Ca_kabuli_chr04	26076223	TT	CC	1946804792
SNP_P4_48669_26079249	NC_021163.1	Ca_kabuli_chr04	26079249	GG	TT	1946804794
SNP_P4_48670_26080170	NC_021163.1	Ca_kabuli_chr04	26080170	GG	AA	1946804796
SNP_P4_48672_26086949	NC_021163.1	Ca_kabuli_chr04	26086949	AA	GG	1946804798
SNP_P4_48673_26089458	NC_021163.1	Ca_kabuli_chr04	26089458	AA	GG	1946804801
SNP_P4_48674_26100751	NC_021163.1	Ca_kabuli_chr04	26100751	AA	GG	1946804803
SNP_P4_48676_26109618	NC_021163.1	Ca_kabuli_chr04	26109618	AA	CC	1946804806
SNP_P4_48677_26110309	NC_021163.1	Ca_kabuli_chr04	26110309	CC	TT	1946804808
SNP_P4_48680_26111180	NC_021163.1	Ca_kabuli_chr04	26111180	TT	CC	1946804810
SNP_P4_48681_26114038	NC_021163.1	Ca_kabuli_chr04	26114038	CC	TT	1946804812
SNP_P4_48682_26114291	NC_021163.1	Ca_kabuli_chr04	26114291	AA	GG	1946804814
SNP_P4_48683_26114639	NC_021163.1	Ca_kabuli_chr04	26114639	GG	AA	1946804817
SNP_P4_48684_26114645	NC_021163.1	Ca_kabuli_chr04	26114645	CC	TT	1946804819
SNP_P4_48685_26115924	NC_021163.1	Ca_kabuli_chr04	26115924	CC	TT	1946804821
SNP_P4_48686_26115933	NC_021163.1	Ca_kabuli_chr04	26115933	AA	TT	1946804823
SNP_P4_48687_26116962	NC_021163.1	Ca_kabuli_chr04	26116962	AA	GG	1946804825
SNP_P4_48688_26117044	NC_021163.1	Ca_kabuli_chr04	26117044	TT	CC	1946804827
SNP_P4_48689_26117103	NC_021163.1	Ca_kabuli_chr04	26117103	GG	AA	1946804829
SNP_P4_48690_26117500	NC_021163.1	Ca_kabuli_chr04	26117500	CC	TT	1946804831
SNP_P4_48691_26118202	NC_021163.1	Ca_kabuli_chr04	26118202	GG	CC	1946804833
SNP_P4_48692_26118416	NC_021163.1	Ca_kabuli_chr04	26118416	CC	AA	1946804835
SNP_P4_48693_26118503	NC_021163.1	Ca_kabuli_chr04	26118503	CC	TT	1946804838
SNP_P4_48696_26128476	NC_021163.1	Ca_kabuli_chr04	26128476	GG	TT	1946804840

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_48698_26128818	NC_021163.1	Ca_kabuli_chr04	26128818	TT	AA	1946804844
SNP_P4_48699_26135385	NC_021163.1	Ca_kabuli_chr04	26135385	CC	GG	1946804846
SNP_P4_48701_26136386	NC_021163.1	Ca_kabuli_chr04	26136386	CC	TT	1946804848
SNP_P4_48702_26136483	NC_021163.1	Ca_kabuli_chr04	26136483	CC	AA	1946804850
SNP_P4_48703_26138705	NC_021163.1	Ca_kabuli_chr04	26138705	CC	TT	1946804853
SNP_P4_48704_26138756	NC_021163.1	Ca_kabuli_chr04	26138756	GG	AA	1946804855
SNP_P4_48705_26138773	NC_021163.1	Ca_kabuli_chr04	26138773	CC	AA	1946804857
SNP_P4_48706_26139667	NC_021163.1	Ca_kabuli_chr04	26139667	TT	GG	1946804859
SNP_P4_48708_26140585	NC_021163.1	Ca_kabuli_chr04	26140585	GG	TT	1946804861
SNP_P4_48709_26144199	NC_021163.1	Ca_kabuli_chr04	26144199	TT	GG	1946804863
SNP_P4_48710_26144568	NC_021163.1	Ca_kabuli_chr04	26144568	AA	GG	1946804865
SNP_P4_48711_26154733	NC_021163.1	Ca_kabuli_chr04	26154733	AA	GG	1946804868
SNP_P4_48712_26161480	NC_021163.1	Ca_kabuli_chr04	26161480	TT	CC	1946804870
SNP_P4_48713_26164614	NC_021163.1	Ca_kabuli_chr04	26164614	CC	TT	1946804872
SNP_P4_48715_26171026	NC_021163.1	Ca_kabuli_chr04	26171026	AA	TT	1946804875
SNP_P4_48716_26171768	NC_021163.1	Ca_kabuli_chr04	26171768	GG	AA	1946804877
SNP_P4_48717_26172504	NC_021163.1	Ca_kabuli_chr04	26172504	AA	GG	1946804879
SNP_P4_48719_26174176	NC_021163.1	Ca_kabuli_chr04	26174176	AA	GG	1946804881
SNP_P4_48720_26175976	NC_021163.1	Ca_kabuli_chr04	26175976	CC	TT	1946804883
SNP_P4_48721_26176412	NC_021163.1	Ca_kabuli_chr04	26176412	CC	TT	1946804885
SNP_P4_48722_26186139	NC_021163.1	Ca_kabuli_chr04	26186139	GG	AA	1946804887
SNP_P4_48723_26186515	NC_021163.1	Ca_kabuli_chr04	26186515	GG	AA	1946804889
SNP_P4_48724_26186760	NC_021163.1	Ca_kabuli_chr04	26186760	GG	AA	1946804891
SNP_P4_48725_26187146	NC_021163.1	Ca_kabuli_chr04	26187146	TT	CC	1946804893
SNP_P4_48726_26187400	NC_021163.1	Ca_kabuli_chr04	26187400	TT	GG	1946804895
SNP_P4_48727_26187810	NC_021163.1	Ca_kabuli_chr04	26187810	CC	TT	1946804898
SNP_P4_48728_26187882	NC_021163.1	Ca_kabuli_chr04	26187882	AA	GG	1946804900
SNP_P4_48729_26188463	NC_021163.1	Ca_kabuli_chr04	26188463	AA	CC	1946804902
SNP_P4_48730_26189103	NC_021163.1	Ca_kabuli_chr04	26189103	AA	TT	1946804904
SNP_P4_48731_26193940	NC_021163.1	Ca_kabuli_chr04	26193940	AA	CC	1946804906
SNP_P4_48732_26194838	NC_021163.1	Ca_kabuli_chr04	26194838	CC	TT	1946804908
SNP_P4_48733_26194892	NC_021163.1	Ca_kabuli_chr04	26194892	AA	GG	1946804910
SNP_P4_48734_26195194	NC_021163.1	Ca_kabuli_chr04	26195194	GG	AA	1946804912
SNP_P4_48735_26195852	NC_021163.1	Ca_kabuli_chr04	26195852	AA	CC	1946804914
SNP_P4_48736_26199445	NC_021163.1	Ca_kabuli_chr04	26199445	CC	TT	1946804916
SNP_P4_48738_26200017	NC_021163.1	Ca_kabuli_chr04	26200017	GG	TT	1946804918
SNP_P4_48739_26200028	NC_021163.1	Ca_kabuli_chr04	26200028	GG	TT	1946804920
SNP_P4_48740_26200029	NC_021163.1	Ca_kabuli_chr04	26200029	CC	TT	1946804922
SNP_P4_48741_26200062	NC_021163.1	Ca_kabuli_chr04	26200062	TT	CC	1946804925
SNP_P4_48742_26200121	NC_021163.1	Ca_kabuli_chr04	26200121	AA	GG	1946804927
SNP_P4_48743_26203300	NC_021163.1	Ca_kabuli_chr04	26203300	TT	CC	1946804929

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_48746_26209095	NC_021163.1	Ca_kabuli_chr04	26209095	TT	CC	1946804933
SNP_P4_48747_26209113	NC_021163.1	Ca_kabuli_chr04	26209113	AA	TT	1946804935
SNP_P4_48748_26209177	NC_021163.1	Ca_kabuli_chr04	26209177	CC	TT	1946804938
SNP_P4_48749_26209193	NC_021163.1	Ca_kabuli_chr04	26209193	TT	CC	1946804940
SNP_P4_48750_26214210	NC_021163.1	Ca_kabuli_chr04	26214210	TT	CC	1946804942
SNP_P4_48751_26214280	NC_021163.1	Ca_kabuli_chr04	26214280	GG	CC	1946804944
SNP_P4_48752_26214631	NC_021163.1	Ca_kabuli_chr04	26214631	GG	AA	1946804946
SNP_P4_48753_26216921	NC_021163.1	Ca_kabuli_chr04	26216921	GG	AA	1946804949
SNP_P4_48754_26223242	NC_021163.1	Ca_kabuli_chr04	26223242	GG	AA	1946804951
SNP_P4_48755_26223911	NC_021163.1	Ca_kabuli_chr04	26223911	CC	AA	1946804953
SNP_P4_48756_26223914	NC_021163.1	Ca_kabuli_chr04	26223914	GG	TT	1946804955
SNP_P4_48757_26223927	NC_021163.1	Ca_kabuli_chr04	26223927	TT	CC	1946804957
SNP_P4_48758_26223941	NC_021163.1	Ca_kabuli_chr04	26223941	TT	CC	1946804959
SNP_P4_48759_26223958	NC_021163.1	Ca_kabuli_chr04	26223958	CC	TT	1946804962
SNP_P4_48760_26232917	NC_021163.1	Ca_kabuli_chr04	26232917	CC	TT	1946804964
SNP_P4_48761_26234181	NC_021163.1	Ca_kabuli_chr04	26234181	GG	AA	1946804966
SNP_P4_48763_26239324	NC_021163.1	Ca_kabuli_chr04	26239324	AA	CC	1946804969
SNP_P4_48764_26241402	NC_021163.1	Ca_kabuli_chr04	26241402	TT	GG	1946804971
SNP_P4_48765_26243097	NC_021163.1	Ca_kabuli_chr04	26243097	GG	CC	1946804973
SNP_P4_48766_26243357	NC_021163.1	Ca_kabuli_chr04	26243357	AA	GG	1946804975
SNP_P4_48767_26243390	NC_021163.1	Ca_kabuli_chr04	26243390	TT	CC	1946804977
SNP_P4_48768_26245170	NC_021163.1	Ca_kabuli_chr04	26245170	AA	GG	1946804980
SNP_P4_48769_26250193	NC_021163.1	Ca_kabuli_chr04	26250193	TT	CC	1946804982
SNP_P4_48770_26257186	NC_021163.1	Ca_kabuli_chr04	26257186	TT	AA	1946804985
SNP_P4_48771_26257699	NC_021163.1	Ca_kabuli_chr04	26257699	TT	CC	1946804987
SNP_P4_48772_26258985	NC_021163.1	Ca_kabuli_chr04	26258985	AA	GG	1946804989
SNP_P4_48773_26259001	NC_021163.1	Ca_kabuli_chr04	26259001	AA	GG	1946804991
SNP_P4_48775_26259138	NC_021163.1	Ca_kabuli_chr04	26259138	AA	GG	1946804993
SNP_P4_48776_26259497	NC_021163.1	Ca_kabuli_chr04	26259497	AA	CC	1946804995
SNP_P4_48777_26259787	NC_021163.1	Ca_kabuli_chr04	26259787	CC	AA	1946804997
SNP_P4_48778_26261398	NC_021163.1	Ca_kabuli_chr04	26261398	GG	CC	1946804999
SNP_P4_48779_26262780	NC_021163.1	Ca_kabuli_chr04	26262780	GG	TT	1946805001
SNP_P4_48780_26262925	NC_021163.1	Ca_kabuli_chr04	26262925	AA	GG	1946805003
SNP_P4_48781_26263313	NC_021163.1	Ca_kabuli_chr04	26263313	AA	GG	1946805005
SNP_P4_48782_26263444	NC_021163.1	Ca_kabuli_chr04	26263444	TT	CC	1946805007
SNP_P4_48783_26263447	NC_021163.1	Ca_kabuli_chr04	26263447	TT	CC	1946805010
SNP_P4_48784_26263528	NC_021163.1	Ca_kabuli_chr04	26263528	TT	CC	1946805012
SNP_P4_48785_26263560	NC_021163.1	Ca_kabuli_chr04	26263560	AA	GG	1946805014
SNP_P4_48786_26263628	NC_021163.1	Ca_kabuli_chr04	26263628	AA	GG	1946805016
SNP_P4_48787_26264183	NC_021163.1	Ca_kabuli_chr04	26264183	GG	AA	1946805018
SNP_P4_48788_26264534	NC_021163.1	Ca_kabuli_chr04	26264534	AA	TT	1946805020

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_48790_26289764	NC_021163.1	Ca_kabuli_chr04	26289764	CC	TT	1946805025
SNP_P4_48791_26294865	NC_021163.1	Ca_kabuli_chr04	26294865	TT	CC	1946805027
SNP_P4_48792_26295027	NC_021163.1	Ca_kabuli_chr04	26295027	AA	TT	1946805030
SNP_P4_48793_26295399	NC_021163.1	Ca_kabuli_chr04	26295399	TT	CC	1946805032
SNP_P4_48794_26295404	NC_021163.1	Ca_kabuli_chr04	26295404	CC	AA	1946805034
SNP_P4_48795_26301694	NC_021163.1	Ca_kabuli_chr04	26301694	CC	TT	1946805036
SNP_P4_48797_26304024	NC_021163.1	Ca_kabuli_chr04	26304024	AA	TT	1946805039
SNP_P4_48798_26305192	NC_021163.1	Ca_kabuli_chr04	26305192	AA	GG	1946805041
SNP_P4_48799_26306713	NC_021163.1	Ca_kabuli_chr04	26306713	AA	CC	1946805043
SNP_P4_48800_26307169	NC_021163.1	Ca_kabuli_chr04	26307169	TT	CC	1946805045
SNP_P4_48801_26307236	NC_021163.1	Ca_kabuli_chr04	26307236	CC	TT	1946805047
SNP_P4_48802_26307461	NC_021163.1	Ca_kabuli_chr04	26307461	TT	CC	1946805049
SNP_P4_48803_26307465	NC_021163.1	Ca_kabuli_chr04	26307465	GG	CC	1946805051
SNP_P4_48804_26307468	NC_021163.1	Ca_kabuli_chr04	26307468	AA	GG	1946805053
SNP_P4_48805_26307478	NC_021163.1	Ca_kabuli_chr04	26307478	GG	AA	1946805055
SNP_P4_48806_26307486	NC_021163.1	Ca_kabuli_chr04	26307486	TT	GG	1946805057
SNP_P4_48807_26307493	NC_021163.1	Ca_kabuli_chr04	26307493	TT	CC	1946805059
SNP_P4_48808_26307508	NC_021163.1	Ca_kabuli_chr04	26307508	CC	TT	1946805061
SNP_P4_48811_26314640	NC_021163.1	Ca_kabuli_chr04	26314640	GG	AA	1946805063
SNP_P4_48815_26329591	NC_021163.1	Ca_kabuli_chr04	26329591	GG	AA	1946805065
SNP_P4_48816_26330198	NC_021163.1	Ca_kabuli_chr04	26330198	TT	GG	1946805067
SNP_P4_48817_26331172	NC_021163.1	Ca_kabuli_chr04	26331172	TT	CC	1946805069
SNP_P4_48818_26332862	NC_021163.1	Ca_kabuli_chr04	26332862	TT	CC	1946805071
SNP_P4_48819_26337135	NC_021163.1	Ca_kabuli_chr04	26337135	TT	GG	1946805073
SNP_P4_48820_26337329	NC_021163.1	Ca_kabuli_chr04	26337329	CC	TT	1946805075
SNP_P4_48821_26337360	NC_021163.1	Ca_kabuli_chr04	26337360	GG	TT	1946805077
SNP_P4_48824_26341850	NC_021163.1	Ca_kabuli_chr04	26341850	GG	AA	1946805079
SNP_P4_48825_26343414	NC_021163.1	Ca_kabuli_chr04	26343414	GG	AA	1946805081
SNP_P4_48826_26349990	NC_021163.1	Ca_kabuli_chr04	26349990	GG	AA	1946805083
SNP_P4_48827_26353726	NC_021163.1	Ca_kabuli_chr04	26353726	TT	CC	1946805085
SNP_P4_48828_26355266	NC_021163.1	Ca_kabuli_chr04	26355266	GG	AA	1946805088
SNP_P4_48829_26355466	NC_021163.1	Ca_kabuli_chr04	26355466	CC	TT	1946805090
SNP_P4_48830_26355700	NC_021163.1	Ca_kabuli_chr04	26355700	CC	TT	1946805092
SNP_P4_48834_26365292	NC_021163.1	Ca_kabuli_chr04	26365292	AA	CC	1946805094
SNP_P4_48835_26365302	NC_021163.1	Ca_kabuli_chr04	26365302	TT	AA	1946805096
SNP_P4_48836_26367810	NC_021163.1	Ca_kabuli_chr04	26367810	CC	TT	1946805099
SNP_P4_48837_26370513	NC_021163.1	Ca_kabuli_chr04	26370513	TT	CC	1946805101
SNP_P4_48838_26370753	NC_021163.1	Ca_kabuli_chr04	26370753	TT	GG	1946805103
SNP_P4_48839_26370815	NC_021163.1	Ca_kabuli_chr04	26370815	CC	TT	1946805105
SNP_P4_48840_26370957	NC_021163.1	Ca_kabuli_chr04	26370957	AA	CC	1946805107
SNP_P4_48841_26372844	NC_021163.1	Ca_kabuli_chr04	26372844	TT	CC	1946805109

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_48843_26373180	NC_021163.1	Ca_kabuli_chr04	26373180	TT	GG	1946805113
SNP_P4_48844_26379203	NC_021163.1	Ca_kabuli_chr04	26379203	TT	CC	1946805116
SNP_P4_48845_26379377	NC_021163.1	Ca_kabuli_chr04	26379377	CC	TT	1946805118
SNP_P4_48846_26379516	NC_021163.1	Ca_kabuli_chr04	26379516	GG	AA	1946805120
SNP_P4_48847_26379880	NC_021163.1	Ca_kabuli_chr04	26379880	CC	TT	1946805122
SNP_P4_48848_26382408	NC_021163.1	Ca_kabuli_chr04	26382408	TT	CC	1946805124
SNP_P4_48849_26383747	NC_021163.1	Ca_kabuli_chr04	26383747	GG	AA	1946805126
SNP_P4_48850_26384134	NC_021163.1	Ca_kabuli_chr04	26384134	TT	GG	1946805128
SNP_P4_48852_26389703	NC_021163.1	Ca_kabuli_chr04	26389703	TT	CC	1946805130
SNP_P4_48853_26389917	NC_021163.1	Ca_kabuli_chr04	26389917	AA	GG	1946805132
SNP_P4_48854_26394986	NC_021163.1	Ca_kabuli_chr04	26394986	GG	TT	1946805134
SNP_P4_48855_26395086	NC_021163.1	Ca_kabuli_chr04	26395086	TT	GG	1946805136
SNP_P4_48856_26397396	NC_021163.1	Ca_kabuli_chr04	26397396	CC	TT	1946805138
SNP_P4_48857_26397458	NC_021163.1	Ca_kabuli_chr04	26397458	TT	CC	1946805140
SNP_P4_48858_26397500	NC_021163.1	Ca_kabuli_chr04	26397500	AA	GG	1946805142
SNP_P4_48859_26397656	NC_021163.1	Ca_kabuli_chr04	26397656	GG	AA	1946805144
SNP_P4_48860_26397957	NC_021163.1	Ca_kabuli_chr04	26397957	CC	TT	1946805146
SNP_P4_48861_26398296	NC_021163.1	Ca_kabuli_chr04	26398296	CC	TT	1946805148
SNP_P4_48862_26398671	NC_021163.1	Ca_kabuli_chr04	26398671	AA	GG	1946805150
SNP_P4_48864_26399000	NC_021163.1	Ca_kabuli_chr04	26399000	CC	TT	1946805152
SNP_P4_48865_26399442	NC_021163.1	Ca_kabuli_chr04	26399442	GG	AA	1946805154
SNP_P4_48866_26402560	NC_021163.1	Ca_kabuli_chr04	26402560	GG	CC	1946805156
SNP_P4_48867_26405445	NC_021163.1	Ca_kabuli_chr04	26405445	AA	GG	1946805158
SNP_P4_48868_26408593	NC_021163.1	Ca_kabuli_chr04	26408593	GG	AA	1946805160
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SNP_P4_48870_26409507	NC_021163.1	Ca_kabuli_chr04	26409507	AA	TT	1946805164
SNP_P4_48871_26409749	NC_021163.1	Ca_kabuli_chr04	26409749	CC	TT	1946805166
SNP_P4_48872_26409880	NC_021163.1	Ca_kabuli_chr04	26409880	AA	GG	1946805168
SNP_P4_48873_26410288	NC_021163.1	Ca_kabuli_chr04	26410288	AA	GG	1946805170
SNP_P4_48874_26410990	NC_021163.1	Ca_kabuli_chr04	26410990	TT	CC	1946805172
SNP_P4_48875_26411090	NC_021163.1	Ca_kabuli_chr04	26411090	AA	TT	1946805174
SNP_P4_48876_26411091	NC_021163.1	Ca_kabuli_chr04	26411091	GG	AA	1946805176
SNP_P4_48877_26411141	NC_021163.1	Ca_kabuli_chr04	26411141	AA	TT	1946805178
SNP_P4_48878_26411203	NC_021163.1	Ca_kabuli_chr04	26411203	TT	CC	1946805181
SNP_P4_48880_26411400	NC_021163.1	Ca_kabuli_chr04	26411400	GG	AA	1946805183
SNP_P4_48881_26411481	NC_021163.1	Ca_kabuli_chr04	26411481	TT	AA	1946805185
SNP_P4_48882_26413953	NC_021163.1	Ca_kabuli_chr04	26413953	TT	AA	1946805187
SNP_P4_48884_26419463	NC_021163.1	Ca_kabuli_chr04	26419463	TT	CC	1946805189
SNP_P4_48885_26456459	NC_021163.1	Ca_kabuli_chr04	26456459	TT	AA	1946805191
SNP_P4_48887_26456558	NC_021163.1	Ca_kabuli_chr04	26456558	TT	AA	1946805193
SNP_P4_48888_26456794	NC_021163.1	Ca_kabuli_chr04	26456794	AA	TT	1946805195

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_48890_26458366	NC_021163.1	Ca_kabuli_chr04	26458366	GG	AA	1946805200
SNP_P4_48893_26464347	NC_021163.1	Ca_kabuli_chr04	26464347	AA	GG	1946805202
SNP_P4_48894_26464564	NC_021163.1	Ca_kabuli_chr04	26464564	CC	TT	1946805204
SNP_P4_48895_26464566	NC_021163.1	Ca_kabuli_chr04	26464566	AA	TT	1946805206
SNP_P4_48896_26464689	NC_021163.1	Ca_kabuli_chr04	26464689	TT	CC	1946805208
SNP_P4_48897_26466423	NC_021163.1	Ca_kabuli_chr04	26466423	GG	AA	1946805211
SNP_P4_48898_26467402	NC_021163.1	Ca_kabuli_chr04	26467402	AA	GG	1946805213
SNP_P4_48899_26468171	NC_021163.1	Ca_kabuli_chr04	26468171	CC	TT	1946805215
SNP_P4_48900_26469196	NC_021163.1	Ca_kabuli_chr04	26469196	TT	CC	1946805217
SNP_P4_48901_26480909	NC_021163.1	Ca_kabuli_chr04	26480909	AA	GG	1946805219
SNP_P4_48902_26481228	NC_021163.1	Ca_kabuli_chr04	26481228	TT	CC	1946805221
SNP_P4_48904_26483830	NC_021163.1	Ca_kabuli_chr04	26483830	AA	TT	1946805224
SNP_P4_48905_26487857	NC_021163.1	Ca_kabuli_chr04	26487857	GG	AA	1946805226
SNP_P4_48907_26489185	NC_021163.1	Ca_kabuli_chr04	26489185	TT	CC	1946805228
SNP_P4_48908_26491091	NC_021163.1	Ca_kabuli_chr04	26491091	GG	AA	1946805230
SNP_P4_48910_26492266	NC_021163.1	Ca_kabuli_chr04	26492266	GG	AA	1946805232
SNP_P4_48911_26494319	NC_021163.1	Ca_kabuli_chr04	26494319	AA	GG	1946805234
SNP_P4_48912_26494387	NC_021163.1	Ca_kabuli_chr04	26494387	TT	CC	1946805236
SNP_P4_48913_26495187	NC_021163.1	Ca_kabuli_chr04	26495187	TT	GG	1946805238
SNP_P4_48915_26495644	NC_021163.1	Ca_kabuli_chr04	26495644	GG	AA	1946805240
SNP_P4_48917_26498409	NC_021163.1	Ca_kabuli_chr04	26498409	GG	AA	1946805242
SNP_P4_48918_26506104	NC_021163.1	Ca_kabuli_chr04	26506104	CC	AA	1946805244
SNP_P4_48919_26506994	NC_021163.1	Ca_kabuli_chr04	26506994	AA	GG	1946805246
SNP_P4_48920_26510055	NC_021163.1	Ca_kabuli_chr04	26510055	GG	TT	1946805248
SNP_P4_48921_26513010	NC_021163.1	Ca_kabuli_chr04	26513010	TT	CC	1946805250
SNP_P4_48922_26514427	NC_021163.1	Ca_kabuli_chr04	26514427	CC	TT	1946805252
SNP_P4_48924_26514931	NC_021163.1	Ca_kabuli_chr04	26514931	TT	GG	1946805254
SNP_P4_48925_26515104	NC_021163.1	Ca_kabuli_chr04	26515104	CC	TT	1946805256
SNP_P4_48926_26515106	NC_021163.1	Ca_kabuli_chr04	26515106	GG	AA	1946805258
SNP_P4_48927_26515212	NC_021163.1	Ca_kabuli_chr04	26515212	AA	GG	1946805260
SNP_P4_48928_26515322	NC_021163.1	Ca_kabuli_chr04	26515322	GG	AA	1946805262
SNP_P4_48929_26515360	NC_021163.1	Ca_kabuli_chr04	26515360	AA	GG	1946805264
SNP_P4_48930_26517565	NC_021163.1	Ca_kabuli_chr04	26517565	CC	AA	1946805266
SNP_P4_48934_26524849	NC_021163.1	Ca_kabuli_chr04	26524849	CC	TT	1946805268
SNP_P4_48936_26526372	NC_021163.1	Ca_kabuli_chr04	26526372	CC	TT	1946805270
SNP_P4_48937_26526377	NC_021163.1	Ca_kabuli_chr04	26526377	AA	GG	1946805272
SNP_P4_48938_26526641	NC_021163.1	Ca_kabuli_chr04	26526641	AA	GG	1946805274
SNP_P4_48940_26528910	NC_021163.1	Ca_kabuli_chr04	26528910	TT	CC	1946805276
SNP_P4_48942_26533887	NC_021163.1	Ca_kabuli_chr04	26533887	AA	TT	1946805278
SNP_P4_48943_26537258	NC_021163.1	Ca_kabuli_chr04	26537258	CC	AA	1946805280
SNP_P4_48945_26543227	NC_021163.1	Ca_kabuli_chr04	26543227	TT	CC	1946805282

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_48946_26546293	NC_021163.1	Ca_kabuli_chr04	26546293	TT	CC	1946805284
SNP_P4_48947_26546944	NC_021163.1	Ca_kabuli_chr04	26546944	GG	AA	1946805286
SNP_P4_48948_26547027	NC_021163.1	Ca_kabuli_chr04	26547027	GG	TT	1946805288
SNP_P4_48949_26547393	NC_021163.1	Ca_kabuli_chr04	26547393	GG	TT	1946805290
SNP_P4_48951_26551678	NC_021163.1	Ca_kabuli_chr04	26551678	AA	GG	1946805292
SNP_P4_48953_26555539	NC_021163.1	Ca_kabuli_chr04	26555539	TT	CC	1946805294
SNP_P4_48954_26555987	NC_021163.1	Ca_kabuli_chr04	26555987	GG	CC	1946805296
SNP_P4_48955_26556298	NC_021163.1	Ca_kabuli_chr04	26556298	TT	CC	1946805298
SNP_P4_48956_26556502	NC_021163.1	Ca_kabuli_chr04	26556502	AA	CC	1946805301
SNP_P4_48957_26556665	NC_021163.1	Ca_kabuli_chr04	26556665	TT	CC	1946805303
SNP_P4_48958_26584672	NC_021163.1	Ca_kabuli_chr04	26584672	AA	GG	1946805305
SNP_P4_48959_26590142	NC_021163.1	Ca_kabuli_chr04	26590142	GG	TT	1946805307
SNP_P4_48960_26590145	NC_021163.1	Ca_kabuli_chr04	26590145	GG	AA	1946805309
SNP_P4_48961_26591392	NC_021163.1	Ca_kabuli_chr04	26591392	CC	TT	1946805311
SNP_P4_48962_26591509	NC_021163.1	Ca_kabuli_chr04	26591509	GG	TT	1946805313
SNP_P4_48963_26592063	NC_021163.1	Ca_kabuli_chr04	26592063	GG	AA	1946805315
SNP_P4_48964_26596705	NC_021163.1	Ca_kabuli_chr04	26596705	CC	GG	1946805317
SNP_P4_48965_26596988	NC_021163.1	Ca_kabuli_chr04	26596988	TT	CC	1946805319
SNP_P4_48966_26599369	NC_021163.1	Ca_kabuli_chr04	26599369	GG	AA	1946805322
SNP_P4_48967_26600954	NC_021163.1	Ca_kabuli_chr04	26600954	TT	GG	1946805324
SNP_P4_48968_26601672	NC_021163.1	Ca_kabuli_chr04	26601672	TT	GG	1946805326
SNP_P4_48969_26603070	NC_021163.1	Ca_kabuli_chr04	26603070	TT	GG	1946805328
SNP_P4_48970_26603343	NC_021163.1	Ca_kabuli_chr04	26603343	GG	AA	1946805330
SNP_P4_48971_26603367	NC_021163.1	Ca_kabuli_chr04	26603367	CC	AA	1946805332
SNP_P4_48972_26603888	NC_021163.1	Ca_kabuli_chr04	26603888	TT	CC	1946805334
SNP_P4_48973_26606278	NC_021163.1	Ca_kabuli_chr04	26606278	TT	CC	1946805336
SNP_P4_48974_26606722	NC_021163.1	Ca_kabuli_chr04	26606722	AA	TT	1946805338
SNP_P4_48975_26607125	NC_021163.1	Ca_kabuli_chr04	26607125	AA	GG	1946805340
SNP_P4_48976_26608172	NC_021163.1	Ca_kabuli_chr04	26608172	GG	TT	1946805342
SNP_P4_48977_26608249	NC_021163.1	Ca_kabuli_chr04	26608249	TT	CC	1946805344
SNP_P4_48978_26608275	NC_021163.1	Ca_kabuli_chr04	26608275	TT	CC	1946805346
SNP_P4_48979_26608936	NC_021163.1	Ca_kabuli_chr04	26608936	GG	AA	1946805348
SNP_P4_48980_26608958	NC_021163.1	Ca_kabuli_chr04	26608958	CC	GG	1946805350
SNP_P4_48981_26617142	NC_021163.1	Ca_kabuli_chr04	26617142	GG	AA	1946805352
SNP_P4_48982_26619033	NC_021163.1	Ca_kabuli_chr04	26619033	TT	AA	1946805354
SNP_P4_48984_26621376	NC_021163.1	Ca_kabuli_chr04	26621376	GG	TT	1946805356
SNP_P4_48985_26622317	NC_021163.1	Ca_kabuli_chr04	26622317	GG	AA	1946805358
SNP_P4_48987_26623414	NC_021163.1	Ca_kabuli_chr04	26623414	GG	CC	1946805360
SNP_P4_48988_26623556	NC_021163.1	Ca_kabuli_chr04	26623556	GG	AA	1946805362
SNP_P4_48989_26624751	NC_021163.1	Ca_kabuli_chr04	26624751	TT	GG	1946805364
SNP_P4_48990_26634974	NC_021163.1	Ca_kabuli_chr04	26634974	CC	TT	1946805366
SNP_P4_48992_26635781	NC_021163.1	Ca_kabuli_chr04	26635781	TT	CC	1946805368

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_48994_26643108	NC_021163.1	Ca_kabuli_chr04	26643108	GG	AA	1946805373
SNP_P4_48996_26647381	NC_021163.1	Ca_kabuli_chr04	26647381	CC	TT	1946805375
SNP_P4_48998_26648326	NC_021163.1	Ca_kabuli_chr04	26648326	TT	CC	1946805377
SNP_P4_48999_26649974	NC_021163.1	Ca_kabuli_chr04	26649974	CC	TT	1946805379
SNP_P4_49000_26650036	NC_021163.1	Ca_kabuli_chr04	26650036	TT	CC	1946805381
SNP_P4_49001_26651146	NC_021163.1	Ca_kabuli_chr04	26651146	AA	GG	1946805383
SNP_P4_49002_26651207	NC_021163.1	Ca_kabuli_chr04	26651207	AA	GG	1946805385
SNP_P4_49003_26652489	NC_021163.1	Ca_kabuli_chr04	26652489	AA	GG	1946805387
SNP_P4_49004_26652586	NC_021163.1	Ca_kabuli_chr04	26652586	GG	AA	1946805389
SNP_P4_49005_26653082	NC_021163.1	Ca_kabuli_chr04	26653082	CC	AA	1946805391
SNP_P4_49006_26654553	NC_021163.1	Ca_kabuli_chr04	26654553	TT	GG	1946805393
SNP_P4_49007_26660195	NC_021163.1	Ca_kabuli_chr04	26660195	AA	TT	1946805395
SNP_P4_49008_26660498	NC_021163.1	Ca_kabuli_chr04	26660498	AA	GG	1946805397
SNP_P4_49009_26660840	NC_021163.1	Ca_kabuli_chr04	26660840	CC	TT	1946805400
SNP_P4_49010_26661299	NC_021163.1	Ca_kabuli_chr04	26661299	AA	GG	1946805402
SNP_P4_49011_26661477	NC_021163.1	Ca_kabuli_chr04	26661477	AA	GG	1946805404
SNP_P4_49012_26662408	NC_021163.1	Ca_kabuli_chr04	26662408	TT	CC	1946805406
SNP_P4_49014_26662752	NC_021163.1	Ca_kabuli_chr04	26662752	AA	TT	1946805408
SNP_P4_49015_26662920	NC_021163.1	Ca_kabuli_chr04	26662920	GG	AA	1946805410
SNP_P4_49016_26663115	NC_021163.1	Ca_kabuli_chr04	26663115	GG	AA	1946805412
SNP_P4_49017_26665913	NC_021163.1	Ca_kabuli_chr04	26665913	GG	AA	1946805414
SNP_P4_49018_26666230	NC_021163.1	Ca_kabuli_chr04	26666230	CC	GG	1946805416
SNP_P4_49019_26666363	NC_021163.1	Ca_kabuli_chr04	26666363	CC	TT	1946805418
SNP_P4_49020_26668191	NC_021163.1	Ca_kabuli_chr04	26668191	CC	AA	1946805420
SNP_P4_49021_26670248	NC_021163.1	Ca_kabuli_chr04	26670248	GG	AA	1946805422
SNP_P4_49022_26670340	NC_021163.1	Ca_kabuli_chr04	26670340	CC	GG	1946805424
SNP_P4_49023_26683838	NC_021163.1	Ca_kabuli_chr04	26683838	GG	TT	1946805426
SNP_P4_49024_26684060	NC_021163.1	Ca_kabuli_chr04	26684060	GG	AA	1946805428
SNP_P4_49026_26720711	NC_021163.1	Ca_kabuli_chr04	26720711	AA	GG	1946805430
SNP_P4_49027_26726282	NC_021163.1	Ca_kabuli_chr04	26726282	AA	GG	1946805432
SNP_P4_49028_26726293	NC_021163.1	Ca_kabuli_chr04	26726293	GG	AA	1946805434
SNP_P4_49030_26726347	NC_021163.1	Ca_kabuli_chr04	26726347	AA	CC	1946805437
SNP_P4_49031_26727805	NC_021163.1	Ca_kabuli_chr04	26727805	GG	AA	1946805439
SNP_P4_49033_26729482	NC_021163.1	Ca_kabuli_chr04	26729482	CC	TT	1946805441
SNP_P4_49034_26731802	NC_021163.1	Ca_kabuli_chr04	26731802	TT	CC	1946805443
SNP_P4_49035_26732863	NC_021163.1	Ca_kabuli_chr04	26732863	TT	CC	1946805445
SNP_P4_49037_26733523	NC_021163.1	Ca_kabuli_chr04	26733523	TT	CC	1946805447
SNP_P4_49038_26733534	NC_021163.1	Ca_kabuli_chr04	26733534	TT	CC	1946805449
SNP_P4_49041_26746221	NC_021163.1	Ca_kabuli_chr04	26746221	CC	TT	1946805451
SNP_P4_49044_26760875	NC_021163.1	Ca_kabuli_chr04	26760875	TT	CC	1946805453
SNP_P4_49045_26764896	NC_021163.1	Ca_kabuli_chr04	26764896	AA	GG	1946805455

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_49048_26766430	NC_021163.1	Ca_kabuli_chr04	26766430	AA	GG	1946805459
SNP_P4_49049_26773641	NC_021163.1	Ca_kabuli_chr04	26773641	TT	CC	1946805461
SNP_P4_49051_26775477	NC_021163.1	Ca_kabuli_chr04	26775477	CC	TT	1946805463
SNP_P4_49052_26776588	NC_021163.1	Ca_kabuli_chr04	26776588	AA	GG	1946805465
SNP_P4_49053_26778404	NC_021163.1	Ca_kabuli_chr04	26778404	TT	AA	1946805467
SNP_P4_49056_26779067	NC_021163.1	Ca_kabuli_chr04	26779067	AA	GG	1946805469
SNP_P4_49057_26779532	NC_021163.1	Ca_kabuli_chr04	26779532	CC	GG	1946805471
SNP_P4_49058_26781894	NC_021163.1	Ca_kabuli_chr04	26781894	CC	TT	1946805473
SNP_P4_49059_26789090	NC_021163.1	Ca_kabuli_chr04	26789090	AA	TT	1946805475
SNP_P4_49061_26793896	NC_021163.1	Ca_kabuli_chr04	26793896	AA	CC	1946805477
SNP_P4_49062_26794110	NC_021163.1	Ca_kabuli_chr04	26794110	AA	CC	1946805479
SNP_P4_49063_26797736	NC_021163.1	Ca_kabuli_chr04	26797736	TT	CC	1946805481
SNP_P4_49064_26805605	NC_021163.1	Ca_kabuli_chr04	26805605	GG	AA	1946805483
SNP_P4_49065_26805821	NC_021163.1	Ca_kabuli_chr04	26805821	AA	GG	1946805485
SNP_P4_49066_26807395	NC_021163.1	Ca_kabuli_chr04	26807395	AA	GG	1946805488
SNP_P4_49067_26807851	NC_021163.1	Ca_kabuli_chr04	26807851	GG	AA	1946805490
SNP_P4_49068_26810481	NC_021163.1	Ca_kabuli_chr04	26810481	TT	CC	1946805492
SNP_P4_49069_26810599	NC_021163.1	Ca_kabuli_chr04	26810599	GG	TT	1946805494
SNP_P4_49070_26810674	NC_021163.1	Ca_kabuli_chr04	26810674	AA	CC	1946805496
SNP_P4_49071_26810680	NC_021163.1	Ca_kabuli_chr04	26810680	CC	TT	1946805498
SNP_P4_49072_26810689	NC_021163.1	Ca_kabuli_chr04	26810689	TT	CC	1946805500
SNP_P4_49073_26810737	NC_021163.1	Ca_kabuli_chr04	26810737	CC	TT	1946805502
SNP_P4_49074_26810749	NC_021163.1	Ca_kabuli_chr04	26810749	GG	AA	1946805504
SNP_P4_49075_26810862	NC_021163.1	Ca_kabuli_chr04	26810862	CC	TT	1946805506
SNP_P4_49076_26814835	NC_021163.1	Ca_kabuli_chr04	26814835	GG	AA	1946805509
SNP_P4_49077_26818111	NC_021163.1	Ca_kabuli_chr04	26818111	AA	TT	1946805511
SNP_P4_49078_26818112	NC_021163.1	Ca_kabuli_chr04	26818112	TT	CC	1946805513
SNP_P4_49079_26819643	NC_021163.1	Ca_kabuli_chr04	26819643	TT	AA	1946805515
SNP_P4_49080_26821666	NC_021163.1	Ca_kabuli_chr04	26821666	AA	TT	1946805517
SNP_P4_49081_26821667	NC_021163.1	Ca_kabuli_chr04	26821667	CC	AA	1946805519
SNP_P4_49082_26822516	NC_021163.1	Ca_kabuli_chr04	26822516	GG	AA	1946805521
SNP_P4_49083_26827058	NC_021163.1	Ca_kabuli_chr04	26827058	CC	TT	1946805523
SNP_P4_49084_26827284	NC_021163.1	Ca_kabuli_chr04	26827284	TT	CC	1946805525
SNP_P4_49085_26828921	NC_021163.1	Ca_kabuli_chr04	26828921	GG	AA	1946805527
SNP_P4_49086_26828931	NC_021163.1	Ca_kabuli_chr04	26828931	GG	CC	1946805529
SNP_P4_49087_26831657	NC_021163.1	Ca_kabuli_chr04	26831657	TT	CC	1946805531
SNP_P4_49088_26833829	NC_021163.1	Ca_kabuli_chr04	26833829	CC	TT	1946805533
SNP_P4_49089_26838861	NC_021163.1	Ca_kabuli_chr04	26838861	CC	TT	1946805535
SNP_P4_49090_26840399	NC_021163.1	Ca_kabuli_chr04	26840399	GG	AA	1946805537
SNP_P4_49091_26840451	NC_021163.1	Ca_kabuli_chr04	26840451	AA	CC	1946805540
SNP_P4_49093_26842935	NC_021163.1	Ca_kabuli_chr04	26842935	GG	CC	1946805542

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_49095_26843421	NC_021163.1	Ca_kabuli_chr04	26843421	AA	CC	1946805546
SNP_P4_49096_26843783	NC_021163.1	Ca_kabuli_chr04	26843783	AA	GG	1946805548
SNP_P4_49097_26844954	NC_021163.1	Ca_kabuli_chr04	26844954	TT	CC	1946805550
SNP_P4_49098_26844968	NC_021163.1	Ca_kabuli_chr04	26844968	TT	CC	1946805552
SNP_P4_49099_26845170	NC_021163.1	Ca_kabuli_chr04	26845170	GG	TT	1946805554
SNP_P4_49100_26845267	NC_021163.1	Ca_kabuli_chr04	26845267	AA	CC	1946805556
SNP_P4_49102_26847187	NC_021163.1	Ca_kabuli_chr04	26847187	AA	GG	1946805558
SNP_P4_49103_26847344	NC_021163.1	Ca_kabuli_chr04	26847344	CC	TT	1946805560
SNP_P4_49104_26847401	NC_021163.1	Ca_kabuli_chr04	26847401	TT	CC	1946805562
SNP_P4_49105_26847454	NC_021163.1	Ca_kabuli_chr04	26847454	AA	GG	1946805564
SNP_P4_49106_26847461	NC_021163.1	Ca_kabuli_chr04	26847461	GG	TT	1946805566
SNP_P4_49107_26847470	NC_021163.1	Ca_kabuli_chr04	26847470	TT	CC	1946805568
SNP_P4_49109_26850093	NC_021163.1	Ca_kabuli_chr04	26850093	TT	CC	1946805570
SNP_P4_49110_26850227	NC_021163.1	Ca_kabuli_chr04	26850227	TT	CC	1946805573
SNP_P4_49111_26850562	NC_021163.1	Ca_kabuli_chr04	26850562	GG	AA	1946805575
SNP_P4_49113_26850731	NC_021163.1	Ca_kabuli_chr04	26850731	TT	CC	1946805577
SNP_P4_49114_26851097	NC_021163.1	Ca_kabuli_chr04	26851097	AA	CC	1946805579
SNP_P4_49115_26857868	NC_021163.1	Ca_kabuli_chr04	26857868	CC	TT	1946805581
SNP_P4_49116_26858372	NC_021163.1	Ca_kabuli_chr04	26858372	AA	GG	1946805583
SNP_P4_49117_26899256	NC_021163.1	Ca_kabuli_chr04	26899256	AA	CC	1946805585
SNP_P4_49118_26900443	NC_021163.1	Ca_kabuli_chr04	26900443	TT	CC	1946805587
SNP_P4_49121_26902778	NC_021163.1	Ca_kabuli_chr04	26902778	TT	GG	1946805589
SNP_P4_49122_26902794	NC_021163.1	Ca_kabuli_chr04	26902794	TT	CC	1946805591
SNP_P4_49123_26902814	NC_021163.1	Ca_kabuli_chr04	26902814	AA	CC	1946805593
SNP_P4_49124_26903017	NC_021163.1	Ca_kabuli_chr04	26903017	AA	GG	1946805596
SNP_P4_49125_26903245	NC_021163.1	Ca_kabuli_chr04	26903245	AA	GG	1946805598
SNP_P4_49126_26903279	NC_021163.1	Ca_kabuli_chr04	26903279	AA	CC	1946805600
SNP_P4_49128_26915837	NC_021163.1	Ca_kabuli_chr04	26915837	CC	TT	1946805602
SNP_P4_49129_26915893	NC_021163.1	Ca_kabuli_chr04	26915893	AA	CC	1946805604
SNP_P4_49130_26916177	NC_021163.1	Ca_kabuli_chr04	26916177	TT	CC	1946805606
SNP_P4_49131_26917108	NC_021163.1	Ca_kabuli_chr04	26917108	AA	TT	1946805608
SNP_P4_49132_26918433	NC_021163.1	Ca_kabuli_chr04	26918433	TT	CC	1946805610
SNP_P4_49133_26918831	NC_021163.1	Ca_kabuli_chr04	26918831	TT	CC	1946805612
SNP_P4_49134_26919498	NC_021163.1	Ca_kabuli_chr04	26919498	GG	CC	1946805614
SNP_P4_49135_26930194	NC_021163.1	Ca_kabuli_chr04	26930194	AA	GG	1946805617
SNP_P4_49136_26935703	NC_021163.1	Ca_kabuli_chr04	26935703	AA	GG	1946805619
SNP_P4_49137_26936463	NC_021163.1	Ca_kabuli_chr04	26936463	TT	CC	1946805622
SNP_P4_49138_26936495	NC_021163.1	Ca_kabuli_chr04	26936495	AA	TT	1946805624
SNP_P4_49139_26936497	NC_021163.1	Ca_kabuli_chr04	26936497	AA	GG	1946805627
SNP_P4_49140_26936524	NC_021163.1	Ca_kabuli_chr04	26936524	CC	TT	1946805629
SNP_P4_49141_26936554	NC_021163.1	Ca_kabuli_chr04	26936554	GG	AA	1946805631

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_49143_26936787	NC_021163.1	Ca_kabuli_chr04	26936787	TT	GG	1946805635
SNP_P4_49145_26936951	NC_021163.1	Ca_kabuli_chr04	26936951	AA	GG	1946805638
SNP_P4_49146_26936954	NC_021163.1	Ca_kabuli_chr04	26936954	TT	AA	1946805640
SNP_P4_49147_26936964	NC_021163.1	Ca_kabuli_chr04	26936964	TT	AA	1946805642
SNP_P4_49148_26937009	NC_021163.1	Ca_kabuli_chr04	26937009	GG	AA	1946805644
SNP_P4_49149_26937019	NC_021163.1	Ca_kabuli_chr04	26937019	TT	AA	1946805646
SNP_P4_49150_26937041	NC_021163.1	Ca_kabuli_chr04	26937041	AA	CC	1946805648
SNP_P4_49151_26937045	NC_021163.1	Ca_kabuli_chr04	26937045	CC	TT	1946805651
SNP_P4_49152_26937046	NC_021163.1	Ca_kabuli_chr04	26937046	TT	CC	1946805653
SNP_P4_49153_26937283	NC_021163.1	Ca_kabuli_chr04	26937283	CC	TT	1946805656
SNP_P4_49155_26947601	NC_021163.1	Ca_kabuli_chr04	26947601	TT	AA	1946805658
SNP_P4_49156_26947662	NC_021163.1	Ca_kabuli_chr04	26947662	AA	GG	1946805660
SNP_P4_49157_26947663	NC_021163.1	Ca_kabuli_chr04	26947663	AA	GG	1946805662
SNP_P4_49158_26947666	NC_021163.1	Ca_kabuli_chr04	26947666	AA	TT	1946805665
SNP_P4_49159_26952429	NC_021163.1	Ca_kabuli_chr04	26952429	GG	AA	1946805668
SNP_P4_49160_26953383	NC_021163.1	Ca_kabuli_chr04	26953383	TT	CC	1946805670
SNP_P4_49163_26957591	NC_021163.1	Ca_kabuli_chr04	26957591	CC	TT	1946805672
SNP_P4_49166_26970286	NC_021163.1	Ca_kabuli_chr04	26970286	TT	AA	1946805674
SNP_P4_49168_26970368	NC_021163.1	Ca_kabuli_chr04	26970368	CC	AA	1946805676
SNP_P4_49169_26970580	NC_021163.1	Ca_kabuli_chr04	26970580	AA	TT	1946805679
SNP_P4_49170_26970670	NC_021163.1	Ca_kabuli_chr04	26970670	CC	AA	1946805681
SNP_P4_49172_26971249	NC_021163.1	Ca_kabuli_chr04	26971249	AA	GG	1946805683
SNP_P4_49173_26972637	NC_021163.1	Ca_kabuli_chr04	26972637	TT	CC	1946805685
SNP_P4_49174_26974666	NC_021163.1	Ca_kabuli_chr04	26974666	CC	TT	1946805687
SNP_P4_49175_26975820	NC_021163.1	Ca_kabuli_chr04	26975820	AA	GG	1946805689
SNP_P4_49176_26975885	NC_021163.1	Ca_kabuli_chr04	26975885	CC	TT	1946805691
SNP_P4_49177_26979144	NC_021163.1	Ca_kabuli_chr04	26979144	TT	CC	1946805693
SNP_P4_49178_26980572	NC_021163.1	Ca_kabuli_chr04	26980572	AA	GG	1946805695
SNP_P4_49179_26990495	NC_021163.1	Ca_kabuli_chr04	26990495	GG	AA	1946805697
SNP_P4_49180_26990509	NC_021163.1	Ca_kabuli_chr04	26990509	TT	AA	1946805700
SNP_P4_49181_26990510	NC_021163.1	Ca_kabuli_chr04	26990510	TT	AA	1946805702
SNP_P4_49183_26993919	NC_021163.1	Ca_kabuli_chr04	26993919	CC	TT	1946805704
SNP_P4_49184_26997465	NC_021163.1	Ca_kabuli_chr04	26997465	CC	TT	1946805706
SNP_P4_49185_26997482	NC_021163.1	Ca_kabuli_chr04	26997482	TT	CC	1946805709
SNP_P4_49186_27003118	NC_021163.1	Ca_kabuli_chr04	27003118	TT	GG	1946805711
SNP_P4_49187_27006652	NC_021163.1	Ca_kabuli_chr04	27006652	CC	TT	1946805713
SNP_P4_49188_27006718	NC_021163.1	Ca_kabuli_chr04	27006718	CC	TT	1946805715
SNP_P4_49189_27007607	NC_021163.1	Ca_kabuli_chr04	27007607	TT	AA	1946805717
SNP_P4_49190_27010315	NC_021163.1	Ca_kabuli_chr04	27010315	AA	CC	1946805720
SNP_P4_49191_27016029	NC_021163.1	Ca_kabuli_chr04	27016029	TT	CC	1946805722
SNP_P4_49192_27016058	NC_021163.1	Ca_kabuli_chr04	27016058	GG	AA	1946805724

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_49194_27016707	NC_021163.1	Ca_kabuli_chr04	27016707	AA	CC	1946805729
SNP_P4_49195_27017121	NC_021163.1	Ca_kabuli_chr04	27017121	AA	GG	1946805732
SNP_P4_49197_27017429	NC_021163.1	Ca_kabuli_chr04	27017429	CC	AA	1946805734
SNP_P4_49198_27017698	NC_021163.1	Ca_kabuli_chr04	27017698	CC	TT	1946805736
SNP_P4_49199_27018012	NC_021163.1	Ca_kabuli_chr04	27018012	CC	TT	1946805738
SNP_P4_49200_27018594	NC_021163.1	Ca_kabuli_chr04	27018594	TT	CC	1946805740
SNP_P4_49201_27018689	NC_021163.1	Ca_kabuli_chr04	27018689	AA	TT	1946805742
SNP_P4_49202_27019383	NC_021163.1	Ca_kabuli_chr04	27019383	CC	TT	1946805744
SNP_P4_49203_27019613	NC_021163.1	Ca_kabuli_chr04	27019613	CC	TT	1946805746
SNP_P4_49204_27019750	NC_021163.1	Ca_kabuli_chr04	27019750	CC	AA	1946805749
SNP_P4_49205_27019754	NC_021163.1	Ca_kabuli_chr04	27019754	CC	AA	1946805751
SNP_P4_49206_27020032	NC_021163.1	Ca_kabuli_chr04	27020032	TT	GG	1946805753
SNP_P4_49207_27020035	NC_021163.1	Ca_kabuli_chr04	27020035	AA	GG	1946805755
SNP_P4_49208_27021007	NC_021163.1	Ca_kabuli_chr04	27021007	AA	GG	1946805757
SNP_P4_49209_27021282	NC_021163.1	Ca_kabuli_chr04	27021282	CC	TT	1946805759
SNP_P4_49210_27021482	NC_021163.1	Ca_kabuli_chr04	27021482	GG	AA	1946805761
SNP_P4_49211_27021491	NC_021163.1	Ca_kabuli_chr04	27021491	GG	AA	1946805763
SNP_P4_49212_27021577	NC_021163.1	Ca_kabuli_chr04	27021577	CC	AA	1946805766
SNP_P4_49213_27022074	NC_021163.1	Ca_kabuli_chr04	27022074	CC	GG	1946805768
SNP_P4_49214_27022890	NC_021163.1	Ca_kabuli_chr04	27022890	GG	TT	1946805770
SNP_P4_49215_27027068	NC_021163.1	Ca_kabuli_chr04	27027068	AA	TT	1946805772
SNP_P4_49216_27030413	NC_021163.1	Ca_kabuli_chr04	27030413	TT	CC	1946805775
SNP_P4_49217_27032958	NC_021163.1	Ca_kabuli_chr04	27032958	GG	AA	1946805777
SNP_P4_49218_27032979	NC_021163.1	Ca_kabuli_chr04	27032979	AA	GG	1946805779
SNP_P4_49219_27035894	NC_021163.1	Ca_kabuli_chr04	27035894	CC	GG	1946805781
SNP_P4_49220_27036560	NC_021163.1	Ca_kabuli_chr04	27036560	AA	GG	1946805783
SNP_P4_49221_27037135	NC_021163.1	Ca_kabuli_chr04	27037135	CC	TT	1946805785
SNP_P4_49222_27037378	NC_021163.1	Ca_kabuli_chr04	27037378	CC	TT	1946805787
SNP_P4_49223_27037449	NC_021163.1	Ca_kabuli_chr04	27037449	TT	GG	1946805789
SNP_P4_49224_27037486	NC_021163.1	Ca_kabuli_chr04	27037486	AA	GG	1946805791
SNP_P4_49225_27038141	NC_021163.1	Ca_kabuli_chr04	27038141	CC	GG	1946805793
SNP_P4_49226_27038220	NC_021163.1	Ca_kabuli_chr04	27038220	CC	TT	1946805795
SNP_P4_49227_27038368	NC_021163.1	Ca_kabuli_chr04	27038368	AA	CC	1946805797
SNP_P4_49228_27038646	NC_021163.1	Ca_kabuli_chr04	27038646	CC	TT	1946805799
SNP_P4_49229_27038658	NC_021163.1	Ca_kabuli_chr04	27038658	GG	AA	1946805801
SNP_P4_49230_27045908	NC_021163.1	Ca_kabuli_chr04	27045908	GG	AA	1946805803
SNP_P4_49231_27051636	NC_021163.1	Ca_kabuli_chr04	27051636	AA	GG	1946805805
SNP_P4_49232_27052054	NC_021163.1	Ca_kabuli_chr04	27052054	CC	TT	1946805807
SNP_P4_49234_27057073	NC_021163.1	Ca_kabuli_chr04	27057073	AA	CC	1946805809
SNP_P4_49235_27058910	NC_021163.1	Ca_kabuli_chr04	27058910	TT	GG	1946805811
SNP_P4_49236_27065069	NC_021163.1	Ca_kabuli_chr04	27065069	AA	CC	1946805813

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_49238_27065197	NC_021163.1	Ca_kabuli_chr04	27065197	GG	TT	1946805817
SNP_P4_49239_27065199	NC_021163.1	Ca_kabuli_chr04	27065199	GG	AA	1946805819
SNP_P4_49240_27066165	NC_021163.1	Ca_kabuli_chr04	27066165	GG	AA	1946805821
SNP_P4_49241_27067080	NC_021163.1	Ca_kabuli_chr04	27067080	AA	GG	1946805823
SNP_P4_49243_27067957	NC_021163.1	Ca_kabuli_chr04	27067957	CC	AA	1946805825
SNP_P4_49244_27068984	NC_021163.1	Ca_kabuli_chr04	27068984	GG	CC	1946805827
SNP_P4_49245_27069048	NC_021163.1	Ca_kabuli_chr04	27069048	TT	AA	1946805829
SNP_P4_49246_27070430	NC_021163.1	Ca_kabuli_chr04	27070430	TT	AA	1946805831
SNP_P4_49247_27070454	NC_021163.1	Ca_kabuli_chr04	27070454	AA	GG	1946805833
SNP_P4_49248_27070513	NC_021163.1	Ca_kabuli_chr04	27070513	CC	TT	1946805835
SNP_P4_49249_27070881	NC_021163.1	Ca_kabuli_chr04	27070881	GG	CC	1946805837
SNP_P4_49250_27070970	NC_021163.1	Ca_kabuli_chr04	27070970	GG	AA	1946805839
SNP_P4_49251_27071119	NC_021163.1	Ca_kabuli_chr04	27071119	CC	GG	1946805841
SNP_P4_49252_27071270	NC_021163.1	Ca_kabuli_chr04	27071270	TT	AA	1946805843
SNP_P4_49253_27071321	NC_021163.1	Ca_kabuli_chr04	27071321	GG	AA	1946805846
SNP_P4_49254_27074060	NC_021163.1	Ca_kabuli_chr04	27074060	AA	GG	1946805848
SNP_P4_49255_27074449	NC_021163.1	Ca_kabuli_chr04	27074449	GG	TT	1946805850
SNP_P4_49256_27074454	NC_021163.1	Ca_kabuli_chr04	27074454	AA	GG	1946805852
SNP_P4_49258_27076631	NC_021163.1	Ca_kabuli_chr04	27076631	TT	GG	1946805854
SNP_P4_49259_27079458	NC_021163.1	Ca_kabuli_chr04	27079458	CC	GG	1946805856
SNP_P4_49260_27080429	NC_021163.1	Ca_kabuli_chr04	27080429	CC	TT	1946805858
SNP_P4_49261_27080899	NC_021163.1	Ca_kabuli_chr04	27080899	GG	AA	1946805860
SNP_P4_49262_27080966	NC_021163.1	Ca_kabuli_chr04	27080966	TT	CC	1946805862
SNP_P4_49263_27081229	NC_021163.1	Ca_kabuli_chr04	27081229	GG	AA	1946805864
SNP_P4_49264_27081760	NC_021163.1	Ca_kabuli_chr04	27081760	CC	TT	1946805866
SNP_P4_49265_27081896	NC_021163.1	Ca_kabuli_chr04	27081896	CC	TT	1946805868
SNP_P4_49266_27082279	NC_021163.1	Ca_kabuli_chr04	27082279	AA	GG	1946805870
SNP_P4_49267_27082391	NC_021163.1	Ca_kabuli_chr04	27082391	TT	AA	1946805872
SNP_P4_49268_27082859	NC_021163.1	Ca_kabuli_chr04	27082859	GG	AA	1946805874
SNP_P4_49269_27082993	NC_021163.1	Ca_kabuli_chr04	27082993	GG	TT	1946805876
SNP_P4_49271_27088723	NC_021163.1	Ca_kabuli_chr04	27088723	GG	TT	1946805878
SNP_P4_49272_27089403	NC_021163.1	Ca_kabuli_chr04	27089403	AA	GG	1946805880
SNP_P4_49273_27090681	NC_021163.1	Ca_kabuli_chr04	27090681	GG	TT	1946805882
SNP_P4_49274_27091260	NC_021163.1	Ca_kabuli_chr04	27091260	CC	TT	1946805884
SNP_P4_49275_27091278	NC_021163.1	Ca_kabuli_chr04	27091278	AA	TT	1946805886
SNP_P4_49276_27093762	NC_021163.1	Ca_kabuli_chr04	27093762	TT	CC	1946805888
SNP_P4_49277_27094755	NC_021163.1	Ca_kabuli_chr04	27094755	TT	GG	1946805890
SNP_P4_49278_27094992	NC_021163.1	Ca_kabuli_chr04	27094992	GG	AA	1946805892
SNP_P4_49279_27095014	NC_021163.1	Ca_kabuli_chr04	27095014	GG	AA	1946805894
SNP_P4_49282_27103199	NC_021163.1	Ca_kabuli_chr04	27103199	CC	TT	1946805896
SNP_P4_49283_27103792	NC_021163.1	Ca_kabuli_chr04	27103792	CC	AA	1946805898

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_49285_27113361	NC_021163.1	Ca_kabuli_chr04	27113361	TT	CC	1946805902
SNP_P4_49286_27114584	NC_021163.1	Ca_kabuli_chr04	27114584	AA	GG	1946805904
SNP_P4_49287_27114595	NC_021163.1	Ca_kabuli_chr04	27114595	GG	AA	1946805906
SNP_P4_49288_27114614	NC_021163.1	Ca_kabuli_chr04	27114614	CC	AA	1946805908
SNP_P4_49289_27115014	NC_021163.1	Ca_kabuli_chr04	27115014	GG	AA	1946805910
SNP_P4_49291_27115603	NC_021163.1	Ca_kabuli_chr04	27115603	AA	GG	1946805912
SNP_P4_49292_27116320	NC_021163.1	Ca_kabuli_chr04	27116320	TT	CC	1946805914
SNP_P4_49293_27119255	NC_021163.1	Ca_kabuli_chr04	27119255	GG	AA	1946805916
SNP_P4_49294_27119281	NC_021163.1	Ca_kabuli_chr04	27119281	CC	TT	1946805918
SNP_P4_49295_27121633	NC_021163.1	Ca_kabuli_chr04	27121633	GG	AA	1946805920
SNP_P4_49296_27124359	NC_021163.1	Ca_kabuli_chr04	27124359	CC	TT	1946805922
SNP_P4_49297_27124361	NC_021163.1	Ca_kabuli_chr04	27124361	AA	TT	1946805924
SNP_P4_49298_27124747	NC_021163.1	Ca_kabuli_chr04	27124747	AA	GG	1946805926
SNP_P4_49299_27133061	NC_021163.1	Ca_kabuli_chr04	27133061	CC	TT	1946805928
SNP_P4_49300_27134116	NC_021163.1	Ca_kabuli_chr04	27134116	GG	AA	1946805930
SNP_P4_49301_27135758	NC_021163.1	Ca_kabuli_chr04	27135758	GG	AA	1946805932
SNP_P4_49302_27136072	NC_021163.1	Ca_kabuli_chr04	27136072	AA	GG	1946805935
SNP_P4_49303_27136112	NC_021163.1	Ca_kabuli_chr04	27136112	GG	AA	1946805937
SNP_P4_49305_27141872	NC_021163.1	Ca_kabuli_chr04	27141872	GG	TT	1946805939
SNP_P4_49306_27143024	NC_021163.1	Ca_kabuli_chr04	27143024	CC	GG	1946805941
SNP_P4_49307_27143030	NC_021163.1	Ca_kabuli_chr04	27143030	CC	TT	1946805943
SNP_P4_49308_27143069	NC_021163.1	Ca_kabuli_chr04	27143069	AA	CC	1946805945
SNP_P4_49309_27143070	NC_021163.1	Ca_kabuli_chr04	27143070	GG	TT	1946805947
SNP_P4_49310_27143276	NC_021163.1	Ca_kabuli_chr04	27143276	GG	AA	1946805949
SNP_P4_49311_27143279	NC_021163.1	Ca_kabuli_chr04	27143279	GG	AA	1946805951
SNP_P4_49312_27143303	NC_021163.1	Ca_kabuli_chr04	27143303	AA	GG	1946805953
SNP_P4_49313_27143433	NC_021163.1	Ca_kabuli_chr04	27143433	AA	CC	1946805955
SNP_P4_49314_27143441	NC_021163.1	Ca_kabuli_chr04	27143441	TT	CC	1946805957
SNP_P4_49315_27143443	NC_021163.1	Ca_kabuli_chr04	27143443	GG	CC	1946805959
SNP_P4_49316_27144775	NC_021163.1	Ca_kabuli_chr04	27144775	GG	TT	1946805961
SNP_P4_49317_27144785	NC_021163.1	Ca_kabuli_chr04	27144785	GG	AA	1946805963
SNP_P4_49318_27147012	NC_021163.1	Ca_kabuli_chr04	27147012	AA	CC	1946805965
SNP_P4_49319_27149861	NC_021163.1	Ca_kabuli_chr04	27149861	TT	GG	1946805967
SNP_P4_49321_27153010	NC_021163.1	Ca_kabuli_chr04	27153010	CC	AA	1946805969
SNP_P4_49322_27153064	NC_021163.1	Ca_kabuli_chr04	27153064	CC	TT	1946805971
SNP_P4_49324_27159681	NC_021163.1	Ca_kabuli_chr04	27159681	CC	GG	1946805973
SNP_P4_49325_27159952	NC_021163.1	Ca_kabuli_chr04	27159952	AA	GG	1946805975
SNP_P4_49326_27162785	NC_021163.1	Ca_kabuli_chr04	27162785	AA	TT	1946805977
SNP_P4_49328_27165485	NC_021163.1	Ca_kabuli_chr04	27165485	TT	CC	1946805979
SNP_P4_49329_27167037	NC_021163.1	Ca_kabuli_chr04	27167037	AA	TT	1946805981
SNP_P4_49331_27173278	NC_021163.1	Ca_kabuli_chr04	27173278	AA	GG	1946805984

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_49333_27182656	NC_021163.1	Ca_kabuli_chr04	27182656	GG	AA	1946805988
SNP_P4_49334_27183504	NC_021163.1	Ca_kabuli_chr04	27183504	AA	TT	1946805990
SNP_P4_49335_27183506	NC_021163.1	Ca_kabuli_chr04	27183506	AA	GG	1946805991
SNP_P4_49336_27185767	NC_021163.1	Ca_kabuli_chr04	27185767	TT	AA	1946805993
SNP_P4_49338_27185920	NC_021163.1	Ca_kabuli_chr04	27185920	CC	TT	1946805995
SNP_P4_49339_27185974	NC_021163.1	Ca_kabuli_chr04	27185974	GG	CC	1946805997
SNP_P4_49340_27191005	NC_021163.1	Ca_kabuli_chr04	27191005	CC	TT	1946805999
SNP_P4_49343_27199028	NC_021163.1	Ca_kabuli_chr04	27199028	CC	AA	1946806001
SNP_P4_49344_27199039	NC_021163.1	Ca_kabuli_chr04	27199039	AA	GG	1946806003
SNP_P4_49345_27199187	NC_021163.1	Ca_kabuli_chr04	27199187	GG	AA	1946806005
SNP_P4_49346_27199249	NC_021163.1	Ca_kabuli_chr04	27199249	TT	CC	1946806007
SNP_P4_49347_27199543	NC_021163.1	Ca_kabuli_chr04	27199543	AA	GG	1946806009
SNP_P4_49348_27200982	NC_021163.1	Ca_kabuli_chr04	27200982	AA	GG	1946806011
SNP_P4_49349_27201040	NC_021163.1	Ca_kabuli_chr04	27201040	CC	TT	1946806013
SNP_P4_49350_27201081	NC_021163.1	Ca_kabuli_chr04	27201081	GG	AA	1946806016
SNP_P4_49352_27206835	NC_021163.1	Ca_kabuli_chr04	27206835	GG	AA	1946806018
SNP_P4_49353_27207357	NC_021163.1	Ca_kabuli_chr04	27207357	AA	TT	1946806020
SNP_P4_49354_27210217	NC_021163.1	Ca_kabuli_chr04	27210217	CC	GG	1946806022
SNP_P4_49355_27210259	NC_021163.1	Ca_kabuli_chr04	27210259	CC	AA	1946806024
SNP_P4_49356_27210284	NC_021163.1	Ca_kabuli_chr04	27210284	AA	GG	1946806026
SNP_P4_49357_27212829	NC_021163.1	Ca_kabuli_chr04	27212829	TT	AA	1946806028
SNP_P4_49358_27213136	NC_021163.1	Ca_kabuli_chr04	27213136	AA	CC	1946806030
SNP_P4_49359_27213170	NC_021163.1	Ca_kabuli_chr04	27213170	AA	GG	1946806032
SNP_P4_49360_27213182	NC_021163.1	Ca_kabuli_chr04	27213182	GG	AA	1946806034
SNP_P4_49361_27213197	NC_021163.1	Ca_kabuli_chr04	27213197	GG	AA	1946806036
SNP_P4_49362_27213241	NC_021163.1	Ca_kabuli_chr04	27213241	CC	AA	1946806038
SNP_P4_49363_27213247	NC_021163.1	Ca_kabuli_chr04	27213247	AA	GG	1946806040
SNP_P4_49364_27213588	NC_021163.1	Ca_kabuli_chr04	27213588	AA	CC	1946806042
SNP_P4_49365_27215519	NC_021163.1	Ca_kabuli_chr04	27215519	TT	CC	1946806044
SNP_P4_49366_27215806	NC_021163.1	Ca_kabuli_chr04	27215806	TT	CC	1946806046
SNP_P4_49367_27215834	NC_021163.1	Ca_kabuli_chr04	27215834	TT	CC	1946806048
SNP_P4_49368_27217626	NC_021163.1	Ca_kabuli_chr04	27217626	GG	AA	1946806050
SNP_P4_49369_27219689	NC_021163.1	Ca_kabuli_chr04	27219689	GG	TT	1946806052
SNP_P4_49370_27219947	NC_021163.1	Ca_kabuli_chr04	27219947	GG	AA	1946806054
SNP_P4_49371_27220289	NC_021163.1	Ca_kabuli_chr04	27220289	AA	GG	1946806056
SNP_P4_49373_27233702	NC_021163.1	Ca_kabuli_chr04	27233702	CC	TT	1946806058
SNP_P4_49374_27233719	NC_021163.1	Ca_kabuli_chr04	27233719	TT	CC	1946806060
SNP_P4_49375_27235264	NC_021163.1	Ca_kabuli_chr04	27235264	CC	GG	1946806062
SNP_P4_49377_27236408	NC_021163.1	Ca_kabuli_chr04	27236408	GG	CC	1946806064
SNP_P4_49378_27240725	NC_021163.1	Ca_kabuli_chr04	27240725	CC	TT	1946806066
SNP_P4_49379_27240882	NC_021163.1	Ca_kabuli_chr04	27240882	TT	AA	1946806068

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_49385_27246990	NC_021163.1	Ca_kabuli_chr04	27246990	AA	GG	1946806074
SNP_P4_49386_27248346	NC_021163.1	Ca_kabuli_chr04	27248346	CC	TT	1946806076
SNP_P4_49387_27254764	NC_021163.1	Ca_kabuli_chr04	27254764	GG	AA	1946806078
SNP_P4_49388_27256785	NC_021163.1	Ca_kabuli_chr04	27256785	GG	CC	1946806080
SNP_P4_49389_27257137	NC_021163.1	Ca_kabuli_chr04	27257137	CC	GG	1946806082
SNP_P4_49390_27257788	NC_021163.1	Ca_kabuli_chr04	27257788	TT	GG	1946806084
SNP_P4_49391_27259632	NC_021163.1	Ca_kabuli_chr04	27259632	GG	AA	1946806086
SNP_P4_49392_27259863	NC_021163.1	Ca_kabuli_chr04	27259863	GG	AA	1946806088
SNP_P4_49393_27260023	NC_021163.1	Ca_kabuli_chr04	27260023	TT	GG	1946806090
SNP_P4_49395_27260356	NC_021163.1	Ca_kabuli_chr04	27260356	CC	TT	1946806092
SNP_P4_49397_27266248	NC_021163.1	Ca_kabuli_chr04	27266248	TT	CC	1946806095
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SNP_P4_49399_27266316	NC_021163.1	Ca_kabuli_chr04	27266316	CC	GG	1946806099
SNP_P4_49400_27266317	NC_021163.1	Ca_kabuli_chr04	27266317	CC	AA	1946806101
SNP_P4_49401_27266370	NC_021163.1	Ca_kabuli_chr04	27266370	GG	AA	1946806103
SNP_P4_49402_27266403	NC_021163.1	Ca_kabuli_chr04	27266403	AA	GG	1946806105
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SNP_P4_49405_27266567	NC_021163.1	Ca_kabuli_chr04	27266567	AA	GG	1946806111
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SNP_P4_49407_27266607	NC_021163.1	Ca_kabuli_chr04	27266607	GG	AA	1946806115
SNP_P4_49408_27266635	NC_021163.1	Ca_kabuli_chr04	27266635	CC	TT	1946806117
SNP_P4_49409_27266644	NC_021163.1	Ca_kabuli_chr04	27266644	CC	AA	1946806119
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SNP_P4_49412_27266748	NC_021163.1	Ca_kabuli_chr04	27266748	TT	AA	1946806125
SNP_P4_49413_27266780	NC_021163.1	Ca_kabuli_chr04	27266780	GG	TT	1946806127
SNP_P4_49414_27266849	NC_021163.1	Ca_kabuli_chr04	27266849	AA	CC	1946806129
SNP_P4_49415_27266887	NC_021163.1	Ca_kabuli_chr04	27266887	AA	TT	1946806131
SNP_P4_49416_27266933	NC_021163.1	Ca_kabuli_chr04	27266933	TT	GG	1946806133
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SNP_P4_49418_27266973	NC_021163.1	Ca_kabuli_chr04	27266973	AA	GG	1946806137
SNP_P4_49419_27267083	NC_021163.1	Ca_kabuli_chr04	27267083	AA	GG	1946806139
SNP_P4_49421_27267220	NC_021163.1	Ca_kabuli_chr04	27267220	AA	GG	1946806142
SNP_P4_49422_27267294	NC_021163.1	Ca_kabuli_chr04	27267294	CC	TT	1946806144
SNP_P4_49423_27270709	NC_021163.1	Ca_kabuli_chr04	27270709	AA	GG	1946806146
SNP_P4_49424_27270763	NC_021163.1	Ca_kabuli_chr04	27270763	TT	CC	1946806148
SNP_P4_49425_27270882	NC_021163.1	Ca_kabuli_chr04	27270882	AA	GG	1946806150
SNP_P4_49426_27270894	NC_021163.1	Ca_kabuli_chr04	27270894	AA	GG	1946806152
SNP_P4_49427_27270905	NC_021163.1	Ca_kabuli_chr04	27270905	CC	TT	1946806154

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_49430_27271021	NC_021163.1	Ca_kabuli_chr04	27271021	CC	TT	1946806160
SNP_P4_49431_27271046	NC_021163.1	Ca_kabuli_chr04	27271046	AA	TT	1946806162
SNP_P4_49432_27272116	NC_021163.1	Ca_kabuli_chr04	27272116	GG	TT	1946806164
SNP_P4_49433_27272522	NC_021163.1	Ca_kabuli_chr04	27272522	GG	AA	1946806166
SNP_P4_49434_27272604	NC_021163.1	Ca_kabuli_chr04	27272604	CC	TT	1946806168
SNP_P4_49435_27274106	NC_021163.1	Ca_kabuli_chr04	27274106	GG	TT	1946806169
SNP_P4_49436_27274151	NC_021163.1	Ca_kabuli_chr04	27274151	AA	CC	1946806170
SNP_P4_49437_27274165	NC_021163.1	Ca_kabuli_chr04	27274165	CC	GG	1946806171
SNP_P4_49438_27274172	NC_021163.1	Ca_kabuli_chr04	27274172	CC	TT	1946806173
SNP_P4_49439_27274177	NC_021163.1	Ca_kabuli_chr04	27274177	TT	AA	1946806175
SNP_P4_49440_27274413	NC_021163.1	Ca_kabuli_chr04	27274413	CC	TT	1946806177
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SNP_P4_49444_27283904	NC_021163.1	Ca_kabuli_chr04	27283904	TT	CC	1946806183
SNP_P4_49445_27285126	NC_021163.1	Ca_kabuli_chr04	27285126	TT	CC	1946806185
SNP_P4_49446_27285248	NC_021163.1	Ca_kabuli_chr04	27285248	GG	AA	1946806186
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SNP_P4_49448_27285379	NC_021163.1	Ca_kabuli_chr04	27285379	AA	GG	1946806190
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SNP_P4_49452_27285563	NC_021163.1	Ca_kabuli_chr04	27285563	GG	AA	1946806198
SNP_P4_49453_27285594	NC_021163.1	Ca_kabuli_chr04	27285594	GG	CC	1946806200
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SNP_P4_49458_27313961	NC_021163.1	Ca_kabuli_chr04	27313961	AA	GG	1946806208
SNP_P4_49459_27314013	NC_021163.1	Ca_kabuli_chr04	27314013	CC	AA	1946806210
SNP_P4_49460_27314014	NC_021163.1	Ca_kabuli_chr04	27314014	AA	TT	1946806212
SNP_P4_49461_27314032	NC_021163.1	Ca_kabuli_chr04	27314032	AA	TT	1946806214
SNP_P4_49462_27314046	NC_021163.1	Ca_kabuli_chr04	27314046	TT	GG	1946806217
SNP_P4_49463_27314065	NC_021163.1	Ca_kabuli_chr04	27314065	TT	CC	1946806219
SNP_P4_49465_27314091	NC_021163.1	Ca_kabuli_chr04	27314091	TT	CC	1946806221
SNP_P4_49466_27314304	NC_021163.1	Ca_kabuli_chr04	27314304	CC	TT	1946806223
SNP_P4_49467_27314343	NC_021163.1	Ca_kabuli_chr04	27314343	TT	CC	1946806226
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SNP_P4_49469_27314646	NC_021163.1	Ca_kabuli_chr04	27314646	GG	AA	1946806230
SNP_P4_49470_27316294	NC_021163.1	Ca_kabuli_chr04	27316294	GG	AA	1946806232
SNP_P4_49471_27317582	NC_021163.1	Ca_kabuli_chr04	27317582	TT	AA	1946806234
SNP_P4_49472_27317912	NC_021163.1	Ca_kabuli_chr04	27317912	TT	CC	1946806236

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_49475_27317941	NC_021163.1	Ca_kabuli_chr04	27317941	AA	GG	1946806242
SNP_P4_49476_27317959	NC_021163.1	Ca_kabuli_chr04	27317959	TT	AA	1946806244
SNP_P4_49477_27318035	NC_021163.1	Ca_kabuli_chr04	27318035	AA	GG	1946806246
SNP_P4_49478_27318798	NC_021163.1	Ca_kabuli_chr04	27318798	TT	GG	1946806248
SNP_P4_49479_27318804	NC_021163.1	Ca_kabuli_chr04	27318804	AA	GG	1946806250
SNP_P4_49480_27318811	NC_021163.1	Ca_kabuli_chr04	27318811	TT	GG	1946806252
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SNP_P4_49482_27318828	NC_021163.1	Ca_kabuli_chr04	27318828	GG	AA	1946806256
SNP_P4_49484_27318877	NC_021163.1	Ca_kabuli_chr04	27318877	GG	AA	1946806258
SNP_P4_49486_27319057	NC_021163.1	Ca_kabuli_chr04	27319057	TT	CC	1946806260
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SNP_P4_49488_27322899	NC_021163.1	Ca_kabuli_chr04	27322899	GG	AA	1946806265
SNP_P4_49489_27322900	NC_021163.1	Ca_kabuli_chr04	27322900	TT	CC	1946806267
SNP_P4_49490_27322908	NC_021163.1	Ca_kabuli_chr04	27322908	AA	GG	1946806269
SNP_P4_49491_27323618	NC_021163.1	Ca_kabuli_chr04	27323618	AA	GG	1946806271
SNP_P4_49492_27323657	NC_021163.1	Ca_kabuli_chr04	27323657	TT	AA	1946806273
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SNP_P4_49504_27326294	NC_021163.1	Ca_kabuli_chr04	27326294	AA	CC	1946806291
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SNP_P4_49507_27329363	NC_021163.1	Ca_kabuli_chr04	27329363	AA	CC	1946806297
SNP_P4_49508_27329377	NC_021163.1	Ca_kabuli_chr04	27329377	TT	AA	1946806299
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SNP_P4_49511_27340739	NC_021163.1	Ca_kabuli_chr04	27340739	GG	TT	1946806303
SNP_P4_49512_27340827	NC_021163.1	Ca_kabuli_chr04	27340827	GG	TT	1946806305
SNP_P4_49513_27340903	NC_021163.1	Ca_kabuli_chr04	27340903	TT	AA	1946806307
SNP_P4_49514_27340909	NC_021163.1	Ca_kabuli_chr04	27340909	GG	AA	1946806309
SNP_P4_49515_27340941	NC_021163.1	Ca_kabuli_chr04	27340941	GG	TT	1946806312
SNP_P4_49516_27341141	NC_021163.1	Ca_kabuli_chr04	27341141	AA	GG	1946806314
SNP_P4_49517_27346801	NC_021163.1	Ca_kabuli_chr04	27346801	AA	GG	1946806316
SNP_P4_49518_27348338	NC_021163.1	Ca_kabuli_chr04	27348338	AA	CC	1946806318

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_49521_27350627	NC_021163.1	Ca_kabuli_chr04	27350627	CC	TT	1946806324
SNP_P4_49522_27350632	NC_021163.1	Ca_kabuli_chr04	27350632	CC	TT	1946806327
SNP_P4_49523_27350649	NC_021163.1	Ca_kabuli_chr04	27350649	AA	TT	1946806329
SNP_P4_49524_27350693	NC_021163.1	Ca_kabuli_chr04	27350693	TT	CC	1946806331
SNP_P4_49525_27350699	NC_021163.1	Ca_kabuli_chr04	27350699	CC	TT	1946806334
SNP_P4_49527_27351069	NC_021163.1	Ca_kabuli_chr04	27351069	GG	AA	1946806336
SNP_P4_49528_27354313	NC_021163.1	Ca_kabuli_chr04	27354313	CC	GG	1946806338
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SNP_P4_49530_27355435	NC_021163.1	Ca_kabuli_chr04	27355435	TT	CC	1946806342
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SNP_P4_49532_27355695	NC_021163.1	Ca_kabuli_chr04	27355695	AA	GG	1946806347
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SNP_P4_49537_27356922	NC_021163.1	Ca_kabuli_chr04	27356922	CC	TT	1946806359
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SNP_P4_49540_27356960	NC_021163.1	Ca_kabuli_chr04	27356960	TT	CC	1946806365
SNP_P4_49542_27357115	NC_021163.1	Ca_kabuli_chr04	27357115	AA	GG	1946806367
SNP_P4_49543_27360426	NC_021163.1	Ca_kabuli_chr04	27360426	TT	GG	1946806369
SNP_P4_49544_27362120	NC_021163.1	Ca_kabuli_chr04	27362120	AA	GG	1946806371
SNP_P4_49545_27362164	NC_021163.1	Ca_kabuli_chr04	27362164	AA	GG	1946806373
SNP_P4_49546_27362210	NC_021163.1	Ca_kabuli_chr04	27362210	CC	TT	1946806375
SNP_P4_49547_27362506	NC_021163.1	Ca_kabuli_chr04	27362506	CC	GG	1946806378
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SNP_P4_49549_27363863	NC_021163.1	Ca_kabuli_chr04	27363863	TT	CC	1946806382
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SNP_P4_49553_27364312	NC_021163.1	Ca_kabuli_chr04	27364312	AA	GG	1946806391
SNP_P4_49554_27364649	NC_021163.1	Ca_kabuli_chr04	27364649	AA	GG	1946806393
SNP_P4_49555_27364651	NC_021163.1	Ca_kabuli_chr04	27364651	CC	TT	1946806395
SNP_P4_49556_27364655	NC_021163.1	Ca_kabuli_chr04	27364655	AA	GG	1946806397
SNP_P4_49558_27364898	NC_021163.1	Ca_kabuli_chr04	27364898	AA	CC	1946806399
SNP_P4_49561_27367025	NC_021163.1	Ca_kabuli_chr04	27367025	GG	AA	1946806401
SNP_P4_49562_27367099	NC_021163.1	Ca_kabuli_chr04	27367099	CC	TT	1946806403
SNP_P4_49563_27367122	NC_021163.1	Ca_kabuli_chr04	27367122	AA	GG	1946806405
SNP_P4_49564_27367869	NC_021163.1	Ca_kabuli_chr04	27367869	AA	GG	1946806407
SNP_P4_49565_27367886	NC_021163.1	Ca_kabuli_chr04	27367886	AA	GG	1946806409

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_49566_27367903	NC_021163.1	Ca_kabuli_chr04	27367903	TT	CC	1946806411
SNP_P4_49567_27368198	NC_021163.1	Ca_kabuli_chr04	27368198	TT	AA	1946806413
SNP_P4_49568_27368375	NC_021163.1	Ca_kabuli_chr04	27368375	TT	CC	1946806415
SNP_P4_49569_27368382	NC_021163.1	Ca_kabuli_chr04	27368382	GG	CC	1946806417
SNP_P4_49570_27368409	NC_021163.1	Ca_kabuli_chr04	27368409	CC	TT	1946806419
SNP_P4_49571_27369259	NC_021163.1	Ca_kabuli_chr04	27369259	GG	AA	1946806420
SNP_P4_49572_27369264	NC_021163.1	Ca_kabuli_chr04	27369264	TT	CC	1946806421
SNP_P4_49573_27369331	NC_021163.1	Ca_kabuli_chr04	27369331	GG	CC	1946806422
SNP_P4_49575_27376607	NC_021163.1	Ca_kabuli_chr04	27376607	TT	CC	1946806424
SNP_P4_49576_27376615	NC_021163.1	Ca_kabuli_chr04	27376615	CC	TT	1946806426
SNP_P4_49577_27377580	NC_021163.1	Ca_kabuli_chr04	27377580	CC	TT	1946806428
SNP_P4_49579_27378530	NC_021163.1	Ca_kabuli_chr04	27378530	AA	GG	1946806430
SNP_P4_49580_27379892	NC_021163.1	Ca_kabuli_chr04	27379892	AA	GG	1946806432
SNP_P4_49581_27380028	NC_021163.1	Ca_kabuli_chr04	27380028	TT	CC	1946806434
SNP_P4_49582_27380507	NC_021163.1	Ca_kabuli_chr04	27380507	AA	GG	1946806436
SNP_P4_49583_27383574	NC_021163.1	Ca_kabuli_chr04	27383574	GG	AA	1946806438
SNP_P4_49585_27388610	NC_021163.1	Ca_kabuli_chr04	27388610	AA	TT	1946806440
SNP_P4_49586_27388611	NC_021163.1	Ca_kabuli_chr04	27388611	CC	GG	1946806442
SNP_P4_49587_27388629	NC_021163.1	Ca_kabuli_chr04	27388629	TT	CC	1946806444
SNP_P4_49588_27388636	NC_021163.1	Ca_kabuli_chr04	27388636	GG	AA	1946806446
SNP_P4_49589_27390010	NC_021163.1	Ca_kabuli_chr04	27390010	CC	TT	1946806448
SNP_P4_49590_27390415	NC_021163.1	Ca_kabuli_chr04	27390415	AA	GG	1946806450
SNP_P4_49591_27390872	NC_021163.1	Ca_kabuli_chr04	27390872	CC	GG	1946806453
SNP_P4_49592_27394120	NC_021163.1	Ca_kabuli_chr04	27394120	GG	TT	1946806454
SNP_P4_49593_27394493	NC_021163.1	Ca_kabuli_chr04	27394493	TT	GG	1946806456
SNP_P4_49594_27394840	NC_021163.1	Ca_kabuli_chr04	27394840	GG	AA	1946806458
SNP_P4_49595_27394951	NC_021163.1	Ca_kabuli_chr04	27394951	GG	AA	1946806460
SNP_P4_49596_27394957	NC_021163.1	Ca_kabuli_chr04	27394957	TT	AA	1946806462
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SNP_P4_49599_27396609	NC_021163.1	Ca_kabuli_chr04	27396609	GG	AA	1946806466
SNP_P4_49600_27398512	NC_021163.1	Ca_kabuli_chr04	27398512	GG	TT	1946806468
SNP_P4_49601_27398513	NC_021163.1	Ca_kabuli_chr04	27398513	CC	TT	1946806470
SNP_P4_49602_27398785	NC_021163.1	Ca_kabuli_chr04	27398785	TT	CC	1946806472
SNP_P4_49603_27399175	NC_021163.1	Ca_kabuli_chr04	27399175	GG	TT	1946806474
SNP_P4_49604_27399413	NC_021163.1	Ca_kabuli_chr04	27399413	CC	TT	1946806476
SNP_P4_49605_27400250	NC_021163.1	Ca_kabuli_chr04	27400250	GG	CC	1946806478
SNP_P4_49608_27402882	NC_021163.1	Ca_kabuli_chr04	27402882	CC	GG	1946806480
SNP_P4_49609_27403145	NC_021163.1	Ca_kabuli_chr04	27403145	GG	AA	1946806482
SNP_P4_49611_27403405	NC_021163.1	Ca_kabuli_chr04	27403405	GG	AA	1946806484
SNP_P4_49612_27403563	NC_021163.1	Ca_kabuli_chr04	27403563	CC	TT	1946806486
SNP_P4_49613_27404936	NC_021163.1	Ca_kabuli_chr04	27404936	AA	TT	1946806488
SNP_P4_49614_27404944	NC_021163.1	Ca_kabuli_chr04	27404944	AA	GG	1946806490

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_49615_27405476	NC_021163.1	Ca_kabuli_chr04	27405476	GG	AA	1946806492
SNP_P4_49616_27405479	NC_021163.1	Ca_kabuli_chr04	27405479	CC	TT	1946806494
SNP_P4_49619_27405724	NC_021163.1	Ca_kabuli_chr04	27405724	GG	CC	1946806496
SNP_P4_49620_27405902	NC_021163.1	Ca_kabuli_chr04	27405902	TT	CC	1946806498
SNP_P4_49621_27406100	NC_021163.1	Ca_kabuli_chr04	27406100	GG	AA	1946806500
SNP_P4_49623_27406136	NC_021163.1	Ca_kabuli_chr04	27406136	TT	CC	1946806502
SNP_P4_49625_27406437	NC_021163.1	Ca_kabuli_chr04	27406437	GG	AA	1946806504
SNP_P4_49626_27406452	NC_021163.1	Ca_kabuli_chr04	27406452	GG	AA	1946806507
SNP_P4_49628_27410784	NC_021163.1	Ca_kabuli_chr04	27410784	CC	AA	1946806509
SNP_P4_49629_27417399	NC_021163.1	Ca_kabuli_chr04	27417399	TT	CC	1946806511
SNP_P4_49630_27417427	NC_021163.1	Ca_kabuli_chr04	27417427	CC	TT	1946806513
SNP_P4_49631_27417454	NC_021163.1	Ca_kabuli_chr04	27417454	TT	CC	1946806515
SNP_P4_49632_27417459	NC_021163.1	Ca_kabuli_chr04	27417459	CC	AA	1946806516
SNP_P4_49633_27417678	NC_021163.1	Ca_kabuli_chr04	27417678	GG	CC	1946806518
SNP_P4_49634_27417712	NC_021163.1	Ca_kabuli_chr04	27417712	AA	GG	1946806520
SNP_P4_49635_27417833	NC_021163.1	Ca_kabuli_chr04	27417833	CC	GG	1946806522
SNP_P4_49636_27418000	NC_021163.1	Ca_kabuli_chr04	27418000	TT	CC	1946806524
SNP_P4_49637_27418035	NC_021163.1	Ca_kabuli_chr04	27418035	TT	CC	1946806526
SNP_P4_49638_27418149	NC_021163.1	Ca_kabuli_chr04	27418149	CC	TT	1946806528
SNP_P4_49639_27418175	NC_021163.1	Ca_kabuli_chr04	27418175	CC	TT	1946806530
SNP_P4_49640_27418180	NC_021163.1	Ca_kabuli_chr04	27418180	GG	TT	1946806532
SNP_P4_49641_27418198	NC_021163.1	Ca_kabuli_chr04	27418198	AA	GG	1946806534
SNP_P4_49642_27418203	NC_021163.1	Ca_kabuli_chr04	27418203	AA	TT	1946806536
SNP_P4_49643_27418252	NC_021163.1	Ca_kabuli_chr04	27418252	GG	AA	1946806538
SNP_P4_49644_27418255	NC_021163.1	Ca_kabuli_chr04	27418255	AA	CC	1946806540
SNP_P4_49645_27418274	NC_021163.1	Ca_kabuli_chr04	27418274	AA	GG	1946806542
SNP_P4_49646_27418287	NC_021163.1	Ca_kabuli_chr04	27418287	CC	TT	1946806544
SNP_P4_49647_27418288	NC_021163.1	Ca_kabuli_chr04	27418288	GG	CC	1946806546
SNP_P4_49648_27418289	NC_021163.1	Ca_kabuli_chr04	27418289	CC	TT	1946806548
SNP_P4_49649_27419286	NC_021163.1	Ca_kabuli_chr04	27419286	TT	CC	1946806550
SNP_P4_49650_27419295	NC_021163.1	Ca_kabuli_chr04	27419295	GG	CC	1946806552
SNP_P4_49651_27419580	NC_021163.1	Ca_kabuli_chr04	27419580	AA	GG	1946806554
SNP_P4_49652_27419590	NC_021163.1	Ca_kabuli_chr04	27419590	AA	GG	1946806556
SNP_P4_49653_27419595	NC_021163.1	Ca_kabuli_chr04	27419595	TT	GG	1946806558
SNP_P4_49654_27419616	NC_021163.1	Ca_kabuli_chr04	27419616	AA	GG	1946806560
SNP_P4_49655_27419651	NC_021163.1	Ca_kabuli_chr04	27419651	TT	CC	1946806562
SNP_P4_49656_27421091	NC_021163.1	Ca_kabuli_chr04	27421091	AA	TT	1946806564
SNP_P4_49657_27421092	NC_021163.1	Ca_kabuli_chr04	27421092	TT	AA	1946806566
SNP_P4_49658_27423124	NC_021163.1	Ca_kabuli_chr04	27423124	CC	TT	1946806568
SNP_P4_49659_27423635	NC_021163.1	Ca_kabuli_chr04	27423635	AA	TT	1946806570
SNP_P4_49660_27423675	NC_021163.1	Ca_kabuli_chr04	27423675	AA	GG	1946806572
SNP_P4_49661_27423684	NC_021163.1	Ca_kabuli_chr04	27423684	AA	GG	1946806574

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_49662_27423704	NC_021163.1	Ca_kabuli_chr04	27423704	TT	AA	1946806575
SNP_P4_49663_27424209	NC_021163.1	Ca_kabuli_chr04	27424209	CC	TT	1946806577
SNP_P4_49664_27424280	NC_021163.1	Ca_kabuli_chr04	27424280	CC	TT	1946806580
SNP_P4_49665_27424306	NC_021163.1	Ca_kabuli_chr04	27424306	AA	GG	1946806582
SNP_P4_49667_27424586	NC_021163.1	Ca_kabuli_chr04	27424586	AA	GG	1946806584
SNP_P4_49668_27424596	NC_021163.1	Ca_kabuli_chr04	27424596	GG	TT	1946806586
SNP_P4_49669_27424602	NC_021163.1	Ca_kabuli_chr04	27424602	GG	TT	1946806588
SNP_P4_49670_27426806	NC_021163.1	Ca_kabuli_chr04	27426806	AA	GG	1946806590
SNP_P4_49671_27426859	NC_021163.1	Ca_kabuli_chr04	27426859	CC	AA	1946806592
SNP_P4_49672_27427168	NC_021163.1	Ca_kabuli_chr04	27427168	AA	GG	1946806594
SNP_P4_49673_27427173	NC_021163.1	Ca_kabuli_chr04	27427173	TT	GG	1946806596
SNP_P4_49674_27427182	NC_021163.1	Ca_kabuli_chr04	27427182	TT	GG	1946806598
SNP_P4_49676_27432908	NC_021163.1	Ca_kabuli_chr04	27432908	TT	CC	1946806600
SNP_P4_49677_27432910	NC_021163.1	Ca_kabuli_chr04	27432910	TT	CC	1946806602
SNP_P4_49678_27432912	NC_021163.1	Ca_kabuli_chr04	27432912	GG	TT	1946806604
SNP_P4_49679_27432914	NC_021163.1	Ca_kabuli_chr04	27432914	AA	GG	1946806606
SNP_P4_49680_27433199	NC_021163.1	Ca_kabuli_chr04	27433199	AA	TT	1946806608
SNP_P4_49681_27433835	NC_021163.1	Ca_kabuli_chr04	27433835	CC	AA	1946806610
SNP_P4_49682_27433851	NC_021163.1	Ca_kabuli_chr04	27433851	CC	GG	1946806612
SNP_P4_49683_27434014	NC_021163.1	Ca_kabuli_chr04	27434014	CC	GG	1946806614
SNP_P4_49684_27434017	NC_021163.1	Ca_kabuli_chr04	27434017	AA	TT	1946806616
SNP_P4_49685_27434048	NC_021163.1	Ca_kabuli_chr04	27434048	GG	AA	1946806618
SNP_P4_49686_27434050	NC_021163.1	Ca_kabuli_chr04	27434050	CC	TT	1946806620
SNP_P4_49687_27434343	NC_021163.1	Ca_kabuli_chr04	27434343	CC	TT	1946806622
SNP_P4_49688_27434836	NC_021163.1	Ca_kabuli_chr04	27434836	TT	CC	1946806624
SNP_P4_49690_27435882	NC_021163.1	Ca_kabuli_chr04	27435882	GG	AA	1946806626
SNP_P4_49691_27436295	NC_021163.1	Ca_kabuli_chr04	27436295	GG	AA	1946806628
SNP_P4_49692_27436486	NC_021163.1	Ca_kabuli_chr04	27436486	CC	TT	1946806630
SNP_P4_49693_27436776	NC_021163.1	Ca_kabuli_chr04	27436776	AA	TT	1946806632
SNP_P4_49694_27440475	NC_021163.1	Ca_kabuli_chr04	27440475	GG	AA	1946806634
SNP_P4_49695_27440687	NC_021163.1	Ca_kabuli_chr04	27440687	GG	AA	1946806636
SNP_P4_49696_27440692	NC_021163.1	Ca_kabuli_chr04	27440692	TT	CC	1946806638
SNP_P4_49697_27440693	NC_021163.1	Ca_kabuli_chr04	27440693	AA	CC	1946806640
SNP_P4_49698_27440925	NC_021163.1	Ca_kabuli_chr04	27440925	GG	AA	1946806642
SNP_P4_49699_27440938	NC_021163.1	Ca_kabuli_chr04	27440938	CC	TT	1946806644
SNP_P4_49700_27444510	NC_021163.1	Ca_kabuli_chr04	27444510	TT	CC	1946806646
SNP_P4_49701_27444528	NC_021163.1	Ca_kabuli_chr04	27444528	AA	GG	1946806648
SNP_P4_49702_27444535	NC_021163.1	Ca_kabuli_chr04	27444535	TT	AA	1946806650
SNP_P4_49703_27444964	NC_021163.1	Ca_kabuli_chr04	27444964	TT	CC	1946806652
SNP_P4_49704_27462647	NC_021163.1	Ca_kabuli_chr04	27462647	CC	TT	1946806654
SNP_P4_49706_27478005	NC_021163.1	Ca_kabuli_chr04	27478005	GG	AA	1946806656
SNP_P4_49707_27478243	NC_021163.1	Ca_kabuli_chr04	27478243	TT	CC	1946806658

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_49709_27478320	NC_021163.1	Ca_kabuli_chr04	27478320	CC	TT	1946806660
SNP_P4_49710_27478340	NC_021163.1	Ca_kabuli_chr04	27478340	GG	AA	1946806662
SNP_P4_49711_27478344	NC_021163.1	Ca_kabuli_chr04	27478344	AA	GG	1946806664
SNP_P4_49712_27478345	NC_021163.1	Ca_kabuli_chr04	27478345	GG	CC	1946806666
SNP_P4_49713_27478525	NC_021163.1	Ca_kabuli_chr04	27478525	AA	GG	1946806668
SNP_P4_49714_27478717	NC_021163.1	Ca_kabuli_chr04	27478717	AA	GG	1946806671
SNP_P4_49716_27481304	NC_021163.1	Ca_kabuli_chr04	27481304	CC	TT	1946806673
SNP_P4_49717_27481414	NC_021163.1	Ca_kabuli_chr04	27481414	GG	AA	1946806675
SNP_P4_49718_27481421	NC_021163.1	Ca_kabuli_chr04	27481421	CC	TT	1946806677
SNP_P4_49719_27481422	NC_021163.1	Ca_kabuli_chr04	27481422	CC	TT	1946806679
SNP_P4_49720_27481427	NC_021163.1	Ca_kabuli_chr04	27481427	TT	CC	1946806681
SNP_P4_49721_27481496	NC_021163.1	Ca_kabuli_chr04	27481496	AA	GG	1946806683
SNP_P4_49722_27481516	NC_021163.1	Ca_kabuli_chr04	27481516	CC	TT	1946806686
SNP_P4_49723_27481722	NC_021163.1	Ca_kabuli_chr04	27481722	GG	AA	1946806688
SNP_P4_49724_27481794	NC_021163.1	Ca_kabuli_chr04	27481794	GG	TT	1946806690
SNP_P4_49726_27484314	NC_021163.1	Ca_kabuli_chr04	27484314	TT	AA	1946806692
SNP_P4_49727_27484380	NC_021163.1	Ca_kabuli_chr04	27484380	GG	AA	1946806694
SNP_P4_49728_27484652	NC_021163.1	Ca_kabuli_chr04	27484652	AA	GG	1946806696
SNP_P4_49729_27484658	NC_021163.1	Ca_kabuli_chr04	27484658	AA	GG	1946806698
SNP_P4_49731_27491062	NC_021163.1	Ca_kabuli_chr04	27491062	TT	AA	1946806700
SNP_P4_49732_27491072	NC_021163.1	Ca_kabuli_chr04	27491072	AA	GG	1946806702
SNP_P4_49733_27491094	NC_021163.1	Ca_kabuli_chr04	27491094	GG	CC	1946806704
SNP_P4_49734_27491095	NC_021163.1	Ca_kabuli_chr04	27491095	TT	AA	1946806706
SNP_P4_49735_27491829	NC_021163.1	Ca_kabuli_chr04	27491829	TT	AA	1946806707
SNP_P4_49736_27491879	NC_021163.1	Ca_kabuli_chr04	27491879	GG	AA	1946806709
SNP_P4_49737_27493246	NC_021163.1	Ca_kabuli_chr04	27493246	AA	TT	1946806711
SNP_P4_49738_27494565	NC_021163.1	Ca_kabuli_chr04	27494565	AA	TT	1946806713
SNP_P4_49739_27496098	NC_021163.1	Ca_kabuli_chr04	27496098	CC	TT	1946806715
SNP_P4_49740_27496381	NC_021163.1	Ca_kabuli_chr04	27496381	GG	CC	1946806717
SNP_P4_49742_27497443	NC_021163.1	Ca_kabuli_chr04	27497443	GG	CC	1946806719
SNP_P4_49745_27498604	NC_021163.1	Ca_kabuli_chr04	27498604	TT	CC	1946806721
SNP_P4_49746_27499561	NC_021163.1	Ca_kabuli_chr04	27499561	CC	GG	1946806723
SNP_P4_49747_27499576	NC_021163.1	Ca_kabuli_chr04	27499576	GG	AA	1946806725
SNP_P4_49748_27500246	NC_021163.1	Ca_kabuli_chr04	27500246	TT	CC	1946806727
SNP_P4_49749_27500270	NC_021163.1	Ca_kabuli_chr04	27500270	AA	TT	1946806729
SNP_P4_49750_27500278	NC_021163.1	Ca_kabuli_chr04	27500278	AA	GG	1946806730
SNP_P4_49751_27500295	NC_021163.1	Ca_kabuli_chr04	27500295	AA	CC	1946806732
SNP_P4_49752_27501197	NC_021163.1	Ca_kabuli_chr04	27501197	TT	CC	1946806734
SNP_P4_49754_27503309	NC_021163.1	Ca_kabuli_chr04	27503309	CC	AA	1946806736
SNP_P4_49755_27503548	NC_021163.1	Ca_kabuli_chr04	27503548	CC	GG	1946806738
SNP_P4_49756_27503625	NC_021163.1	Ca_kabuli_chr04	27503625	AA	GG	1946806740
SNP_P4_49758_27504332	NC_021163.1	Ca_kabuli_chr04	27504332	TT	CC	1946806742

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_49760_27505685	NC_021163.1	Ca_kabuli_chr04	27505685	GG	AA	1946806746
SNP_P4_49761_27505854	NC_021163.1	Ca_kabuli_chr04	27505854	GG	CC	1946806748
SNP_P4_49763_27506357	NC_021163.1	Ca_kabuli_chr04	27506357	TT	CC	1946806750
SNP_P4_49764_27506371	NC_021163.1	Ca_kabuli_chr04	27506371	AA	GG	1946806752
SNP_P4_49766_27509057	NC_021163.1	Ca_kabuli_chr04	27509057	CC	AA	1946806754
SNP_P4_49768_27509830	NC_021163.1	Ca_kabuli_chr04	27509830	GG	AA	1946806756
SNP_P4_49769_27509849	NC_021163.1	Ca_kabuli_chr04	27509849	TT	GG	1946806758
SNP_P4_49770_27510784	NC_021163.1	Ca_kabuli_chr04	27510784	TT	AA	1946806760
SNP_P4_49771_27510948	NC_021163.1	Ca_kabuli_chr04	27510948	TT	CC	1946806762
SNP_P4_49772_27512358	NC_021163.1	Ca_kabuli_chr04	27512358	TT	GG	1946806764
SNP_P4_49775_27514150	NC_021163.1	Ca_kabuli_chr04	27514150	AA	GG	1946806766
SNP_P4_49777_27515699	NC_021163.1	Ca_kabuli_chr04	27515699	AA	GG	1946806768
SNP_P4_49778_27516401	NC_021163.1	Ca_kabuli_chr04	27516401	GG	AA	1946806770
SNP_P4_49779_27517340	NC_021163.1	Ca_kabuli_chr04	27517340	TT	GG	1946806772
SNP_P4_49780_27519188	NC_021163.1	Ca_kabuli_chr04	27519188	AA	TT	1946806774
SNP_P4_49782_27530375	NC_021163.1	Ca_kabuli_chr04	27530375	CC	AA	1946806776
SNP_P4_49783_27531060	NC_021163.1	Ca_kabuli_chr04	27531060	TT	CC	1946806778
SNP_P4_49784_27531378	NC_021163.1	Ca_kabuli_chr04	27531378	TT	GG	1946806780
SNP_P4_49785_27536595	NC_021163.1	Ca_kabuli_chr04	27536595	GG	AA	1946806782
SNP_P4_49787_27538530	NC_021163.1	Ca_kabuli_chr04	27538530	AA	CC	1946806784
SNP_P4_49788_27538708	NC_021163.1	Ca_kabuli_chr04	27538708	AA	GG	1946806786
SNP_P4_49789_27538909	NC_021163.1	Ca_kabuli_chr04	27538909	AA	CC	1946806788
SNP_P4_49792_27540315	NC_021163.1	Ca_kabuli_chr04	27540315	AA	CC	1946806790
SNP_P4_49793_27540326	NC_021163.1	Ca_kabuli_chr04	27540326	CC	TT	1946806792
SNP_P4_49794_27545195	NC_021163.1	Ca_kabuli_chr04	27545195	AA	CC	1946806794
SNP_P4_49795_27545196	NC_021163.1	Ca_kabuli_chr04	27545196	TT	CC	1946806796
SNP_P4_49796_27545242	NC_021163.1	Ca_kabuli_chr04	27545242	CC	TT	1946806798
SNP_P4_49797_27545247	NC_021163.1	Ca_kabuli_chr04	27545247	CC	TT	1946806801
SNP_P4_49798_27545546	NC_021163.1	Ca_kabuli_chr04	27545546	TT	AA	1946806803
SNP_P4_49799_27545576	NC_021163.1	Ca_kabuli_chr04	27545576	CC	TT	1946806805
SNP_P4_49800_27545577	NC_021163.1	Ca_kabuli_chr04	27545577	CC	TT	1946806807
SNP_P4_49801_27548253	NC_021163.1	Ca_kabuli_chr04	27548253	TT	AA	1946806809
SNP_P4_49803_27549091	NC_021163.1	Ca_kabuli_chr04	27549091	GG	AA	1946806811
SNP_P4_49804_27549284	NC_021163.1	Ca_kabuli_chr04	27549284	AA	GG	1946806813
SNP_P4_49805_27549693	NC_021163.1	Ca_kabuli_chr04	27549693	AA	GG	1946806815
SNP_P4_49806_27549707	NC_021163.1	Ca_kabuli_chr04	27549707	CC	TT	1946806818
SNP_P4_49807_27549826	NC_021163.1	Ca_kabuli_chr04	27549826	GG	AA	1946806820
SNP_P4_49808_27550063	NC_021163.1	Ca_kabuli_chr04	27550063	TT	AA	1946806822
SNP_P4_49809_27550595	NC_021163.1	Ca_kabuli_chr04	27550595	TT	CC	1946806824
SNP_P4_49810_27551176	NC_021163.1	Ca_kabuli_chr04	27551176	TT	GG	1946806826
SNP_P4_49811_27551505	NC_021163.1	Ca_kabuli_chr04	27551505	AA	GG	1946806828

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_49813_27553256	NC_021163.1	Ca_kabuli_chr04	27553256	TT	AA	1946806832
SNP_P4_49814_27553343	NC_021163.1	Ca_kabuli_chr04	27553343	CC	TT	1946806834
SNP_P4_49815_27553442	NC_021163.1	Ca_kabuli_chr04	27553442	TT	CC	1946806836
SNP_P4_49816_27554287	NC_021163.1	Ca_kabuli_chr04	27554287	AA	CC	1946806838
SNP_P4_49817_27554405	NC_021163.1	Ca_kabuli_chr04	27554405	TT	CC	1946806840
SNP_P4_49818_27554408	NC_021163.1	Ca_kabuli_chr04	27554408	TT	CC	1946806842
SNP_P4_49819_27554412	NC_021163.1	Ca_kabuli_chr04	27554412	AA	GG	1946806844
SNP_P4_49820_27554429	NC_021163.1	Ca_kabuli_chr04	27554429	TT	CC	1946806846
SNP_P4_49821_27554579	NC_021163.1	Ca_kabuli_chr04	27554579	AA	GG	1946806848
SNP_P4_49823_27554664	NC_021163.1	Ca_kabuli_chr04	27554664	AA	TT	1946806850
SNP_P4_49824_27554669	NC_021163.1	Ca_kabuli_chr04	27554669	GG	TT	1946806852
SNP_P4_49825_27554675	NC_021163.1	Ca_kabuli_chr04	27554675	AA	GG	1946806854
SNP_P4_49826_27554681	NC_021163.1	Ca_kabuli_chr04	27554681	TT	CC	1946806856
SNP_P4_49827_27554831	NC_021163.1	Ca_kabuli_chr04	27554831	TT	CC	1946806858
SNP_P4_49828_27554975	NC_021163.1	Ca_kabuli_chr04	27554975	AA	GG	1946806860
SNP_P4_49830_27555439	NC_021163.1	Ca_kabuli_chr04	27555439	CC	AA	1946806862
SNP_P4_49831_27555446	NC_021163.1	Ca_kabuli_chr04	27555446	AA	GG	1946806864
SNP_P4_49832_27555457	NC_021163.1	Ca_kabuli_chr04	27555457	AA	CC	1946806866
SNP_P4_49833_27555488	NC_021163.1	Ca_kabuli_chr04	27555488	GG	AA	1946806868
SNP_P4_49834_27555494	NC_021163.1	Ca_kabuli_chr04	27555494	TT	AA	1946806870
SNP_P4_49835_27555496	NC_021163.1	Ca_kabuli_chr04	27555496	GG	AA	1946806872
SNP_P4_49836_27555573	NC_021163.1	Ca_kabuli_chr04	27555573	AA	TT	1946806874
SNP_P4_49837_27555581	NC_021163.1	Ca_kabuli_chr04	27555581	TT	CC	1946806876
SNP_P4_49838_27555609	NC_021163.1	Ca_kabuli_chr04	27555609	AA	GG	1946806878
SNP_P4_49839_27555664	NC_021163.1	Ca_kabuli_chr04	27555664	CC	AA	1946806880
SNP_P4_49840_27558181	NC_021163.1	Ca_kabuli_chr04	27558181	GG	AA	1946806882
SNP_P4_49842_27562729	NC_021163.1	Ca_kabuli_chr04	27562729	TT	GG	1946806884
SNP_P4_49843_27567251	NC_021163.1	Ca_kabuli_chr04	27567251	AA	GG	1946806886
SNP_P4_49844_27567256	NC_021163.1	Ca_kabuli_chr04	27567256	GG	AA	1946806888
SNP_P4_49845_27569850	NC_021163.1	Ca_kabuli_chr04	27569850	AA	CC	1946806890
SNP_P4_49846_27569861	NC_021163.1	Ca_kabuli_chr04	27569861	GG	AA	1946806892
SNP_P4_49847_27570360	NC_021163.1	Ca_kabuli_chr04	27570360	TT	CC	1946806894
SNP_P4_49848_27571474	NC_021163.1	Ca_kabuli_chr04	27571474	TT	GG	1946806896
SNP_P4_49850_27573849	NC_021163.1	Ca_kabuli_chr04	27573849	TT	GG	1946806898
SNP_P4_49852_27574573	NC_021163.1	Ca_kabuli_chr04	27574573	TT	CC	1946806900
SNP_P4_49853_27578626	NC_021163.1	Ca_kabuli_chr04	27578626	AA	GG	1946806901
SNP_P4_49854_27579091	NC_021163.1	Ca_kabuli_chr04	27579091	CC	TT	1946806903
SNP_P4_49855_27579469	NC_021163.1	Ca_kabuli_chr04	27579469	GG	AA	1946806907
SNP_P4_49856_27579967	NC_021163.1	Ca_kabuli_chr04	27579967	GG	AA	1946806909
SNP_P4_49858_27580896	NC_021163.1	Ca_kabuli_chr04	27580896	TT	AA	1946806911
SNP_P4_49859_27581153	NC_021163.1	Ca_kabuli_chr04	27581153	AA	TT	1946806914

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_49861_27587074	NC_021163.1	Ca_kabuli_chr04	27587074	AA	CC	1946806918
SNP_P4_49862_27587221	NC_021163.1	Ca_kabuli_chr04	27587221	GG	AA	1946806920
SNP_P4_49863_27587308	NC_021163.1	Ca_kabuli_chr04	27587308	GG	AA	1946806923
SNP_P4_49864_27587423	NC_021163.1	Ca_kabuli_chr04	27587423	AA	CC	1946806925
SNP_P4_49865_27587446	NC_021163.1	Ca_kabuli_chr04	27587446	AA	GG	1946806927
SNP_P4_49866_27587578	NC_021163.1	Ca_kabuli_chr04	27587578	CC	TT	1946806929
SNP_P4_49867_27588110	NC_021163.1	Ca_kabuli_chr04	27588110	TT	CC	1946806931
SNP_P4_49868_27588669	NC_021163.1	Ca_kabuli_chr04	27588669	TT	CC	1946806933
SNP_P4_49869_27588745	NC_021163.1	Ca_kabuli_chr04	27588745	GG	CC	1946806935
SNP_P4_49870_27588750	NC_021163.1	Ca_kabuli_chr04	27588750	CC	TT	1946806938
SNP_P4_49871_27593034	NC_021163.1	Ca_kabuli_chr04	27593034	TT	CC	1946806940
SNP_P4_49872_27593319	NC_021163.1	Ca_kabuli_chr04	27593319	AA	GG	1946806942
SNP_P4_49874_27603495	NC_021163.1	Ca_kabuli_chr04	27603495	CC	TT	1946806945
SNP_P4_49875_27604761	NC_021163.1	Ca_kabuli_chr04	27604761	AA	GG	1946806947
SNP_P4_49876_27611361	NC_021163.1	Ca_kabuli_chr04	27611361	GG	AA	1946806949
SNP_P4_49877_27615308	NC_021163.1	Ca_kabuli_chr04	27615308	GG	AA	1946806951
SNP_P4_49878_27618457	NC_021163.1	Ca_kabuli_chr04	27618457	CC	AA	1946806953
SNP_P4_49879_27618513	NC_021163.1	Ca_kabuli_chr04	27618513	TT	CC	1946806955
SNP_P4_49881_27626999	NC_021163.1	Ca_kabuli_chr04	27626999	TT	CC	1946806957
SNP_P4_49882_27627082	NC_021163.1	Ca_kabuli_chr04	27627082	AA	GG	1946806959
SNP_P4_49884_27631660	NC_021163.1	Ca_kabuli_chr04	27631660	TT	CC	1946806961
SNP_P4_49885_27631675	NC_021163.1	Ca_kabuli_chr04	27631675	CC	TT	1946806964
SNP_P4_49886_27631680	NC_021163.1	Ca_kabuli_chr04	27631680	TT	CC	1946806966
SNP_P4_49887_27631754	NC_021163.1	Ca_kabuli_chr04	27631754	TT	CC	1946806968
SNP_P4_49888_27631758	NC_021163.1	Ca_kabuli_chr04	27631758	GG	AA	1946806970
SNP_P4_49889_27631761	NC_021163.1	Ca_kabuli_chr04	27631761	AA	GG	1946806972
SNP_P4_49890_27631773	NC_021163.1	Ca_kabuli_chr04	27631773	AA	GG	1946806975
SNP_P4_49891_27631774	NC_021163.1	Ca_kabuli_chr04	27631774	TT	CC	1946806977
SNP_P4_49892_27631781	NC_021163.1	Ca_kabuli_chr04	27631781	CC	AA	1946806979
SNP_P4_49893_27631784	NC_021163.1	Ca_kabuli_chr04	27631784	TT	AA	1946806981
SNP_P4_49894_27631922	NC_021163.1	Ca_kabuli_chr04	27631922	AA	GG	1946806983
SNP_P4_49895_27631930	NC_021163.1	Ca_kabuli_chr04	27631930	AA	GG	1946806986
SNP_P4_49896_27631943	NC_021163.1	Ca_kabuli_chr04	27631943	AA	TT	1946806988
SNP_P4_49897_27634482	NC_021163.1	Ca_kabuli_chr04	27634482	GG	AA	1946806990
SNP_P4_49898_27635037	NC_021163.1	Ca_kabuli_chr04	27635037	GG	TT	1946806993
SNP_P4_49899_27635038	NC_021163.1	Ca_kabuli_chr04	27635038	GG	AA	1946806995
SNP_P4_49900_27635080	NC_021163.1	Ca_kabuli_chr04	27635080	GG	AA	1946806997
SNP_P4_49901_27635142	NC_021163.1	Ca_kabuli_chr04	27635142	GG	AA	1946806999
SNP_P4_49902_27635155	NC_021163.1	Ca_kabuli_chr04	27635155	TT	GG	1946807002
SNP_P4_49903_27635202	NC_021163.1	Ca_kabuli_chr04	27635202	CC	TT	1946807004
SNP_P4_49905_27636795	NC_021163.1	Ca_kabuli_chr04	27636795	CC	TT	1946807006

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_49908_27637331	NC_021163.1	Ca_kabuli_chr04	27637331	CC	TT	1946807010
SNP_P4_49910_27637682	NC_021163.1	Ca_kabuli_chr04	27637682	GG	AA	1946807012
SNP_P4_49912_27638128	NC_021163.1	Ca_kabuli_chr04	27638128	CC	TT	1946807014
SNP_P4_49913_27638261	NC_021163.1	Ca_kabuli_chr04	27638261	AA	GG	1946807016
SNP_P4_49915_27639562	NC_021163.1	Ca_kabuli_chr04	27639562	GG	AA	1946807018
SNP_P4_49916_27639575	NC_021163.1	Ca_kabuli_chr04	27639575	GG	AA	1946807020
SNP_P4_49917_27639586	NC_021163.1	Ca_kabuli_chr04	27639586	TT	AA	1946807022
SNP_P4_49918_27639619	NC_021163.1	Ca_kabuli_chr04	27639619	TT	AA	1946807024
SNP_P4_49919_27639620	NC_021163.1	Ca_kabuli_chr04	27639620	TT	AA	1946807026
SNP_P4_49920_27639621	NC_021163.1	Ca_kabuli_chr04	27639621	TT	AA	1946807028
SNP_P4_49921_27639622	NC_021163.1	Ca_kabuli_chr04	27639622	TT	AA	1946807030
SNP_P4_49922_27647413	NC_021163.1	Ca_kabuli_chr04	27647413	CC	TT	1946807032
SNP_P4_49923_27647558	NC_021163.1	Ca_kabuli_chr04	27647558	CC	TT	1946807034
SNP_P4_49925_27647783	NC_021163.1	Ca_kabuli_chr04	27647783	GG	AA	1946807036
SNP_P4_49926_27650331	NC_021163.1	Ca_kabuli_chr04	27650331	TT	CC	1946807038
SNP_P4_49927_27653645	NC_021163.1	Ca_kabuli_chr04	27653645	CC	TT	1946807040
SNP_P4_49928_27654187	NC_021163.1	Ca_kabuli_chr04	27654187	TT	CC	1946807042
SNP_P4_49929_27656590	NC_021163.1	Ca_kabuli_chr04	27656590	TT	GG	1946807044
SNP_P4_49930_27657055	NC_021163.1	Ca_kabuli_chr04	27657055	TT	CC	1946807046
SNP_P4_49931_27657071	NC_021163.1	Ca_kabuli_chr04	27657071	TT	GG	1946807048
SNP_P4_49932_27657148	NC_021163.1	Ca_kabuli_chr04	27657148	TT	AA	1946807050
SNP_P4_49933_27657272	NC_021163.1	Ca_kabuli_chr04	27657272	AA	GG	1946807051
SNP_P4_49934_27657456	NC_021163.1	Ca_kabuli_chr04	27657456	TT	GG	1946807054
SNP_P4_49935_27659499	NC_021163.1	Ca_kabuli_chr04	27659499	AA	GG	1946807056
SNP_P4_49936_27664476	NC_021163.1	Ca_kabuli_chr04	27664476	AA	GG	1946807058
SNP_P4_49938_27675479	NC_021163.1	Ca_kabuli_chr04	27675479	CC	TT	1946807060
SNP_P4_49939_27675820	NC_021163.1	Ca_kabuli_chr04	27675820	CC	GG	1946807062
SNP_P4_49940_27675858	NC_021163.1	Ca_kabuli_chr04	27675858	CC	TT	1946807064
SNP_P4_49941_27678024	NC_021163.1	Ca_kabuli_chr04	27678024	CC	TT	1946807066
SNP_P4_49943_27682672	NC_021163.1	Ca_kabuli_chr04	27682672	AA	GG	1946807068
SNP_P4_49944_27684351	NC_021163.1	Ca_kabuli_chr04	27684351	CC	TT	1946807070
SNP_P4_49945_27684573	NC_021163.1	Ca_kabuli_chr04	27684573	GG	TT	1946807072
SNP_P4_49946_27687134	NC_021163.1	Ca_kabuli_chr04	27687134	AA	GG	1946807074
SNP_P4_49947_27687143	NC_021163.1	Ca_kabuli_chr04	27687143	AA	GG	1946807076
SNP_P4_49949_27690863	NC_021163.1	Ca_kabuli_chr04	27690863	CC	TT	1946807078
SNP_P4_49950_27692026	NC_021163.1	Ca_kabuli_chr04	27692026	AA	GG	1946807080
SNP_P4_49951_27693189	NC_021163.1	Ca_kabuli_chr04	27693189	GG	AA	1946807082
SNP_P4_49952_27693513	NC_021163.1	Ca_kabuli_chr04	27693513	TT	AA	1946807084
SNP_P4_49953_27694501	NC_021163.1	Ca_kabuli_chr04	27694501	GG	TT	1946807086
SNP_P4_49954_27695750	NC_021163.1	Ca_kabuli_chr04	27695750	AA	GG	1946807088
SNP_P4_49955_27696132	NC_021163.1	Ca_kabuli_chr04	27696132	AA	GG	1946807091

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_49957_27698267	NC_021163.1	Ca_kabuli_chr04	27698267	GG	AA	1946807095
SNP_P4_49958_27698989	NC_021163.1	Ca_kabuli_chr04	27698989	GG	AA	1946807097
SNP_P4_49959_27705578	NC_021163.1	Ca_kabuli_chr04	27705578	TT	AA	1946807099
SNP_P4_49960_27706026	NC_021163.1	Ca_kabuli_chr04	27706026	AA	CC	1946807101
SNP_P4_49961_27710474	NC_021163.1	Ca_kabuli_chr04	27710474	GG	CC	1946807103
SNP_P4_49962_27715717	NC_021163.1	Ca_kabuli_chr04	27715717	CC	AA	1946807105
SNP_P4_49963_27718590	NC_021163.1	Ca_kabuli_chr04	27718590	AA	TT	1946807107
SNP_P4_49964_27719525	NC_021163.1	Ca_kabuli_chr04	27719525	AA	GG	1946807109
SNP_P4_49965_27719745	NC_021163.1	Ca_kabuli_chr04	27719745	CC	TT	1946807111
SNP_P4_49966_27724832	NC_021163.1	Ca_kabuli_chr04	27724832	GG	TT	1946807113
SNP_P4_49967_27724894	NC_021163.1	Ca_kabuli_chr04	27724894	CC	TT	1946807115
SNP_P4_49968_27724947	NC_021163.1	Ca_kabuli_chr04	27724947	GG	CC	1946807118
SNP_P4_49969_27724987	NC_021163.1	Ca_kabuli_chr04	27724987	GG	CC	1946807120
SNP_P4_49970_27725196	NC_021163.1	Ca_kabuli_chr04	27725196	AA	TT	1946807122
SNP_P4_49971_27725264	NC_021163.1	Ca_kabuli_chr04	27725264	TT	CC	1946807124
SNP_P4_49972_27731359	NC_021163.1	Ca_kabuli_chr04	27731359	CC	AA	1946807126
SNP_P4_49973_27731577	NC_021163.1	Ca_kabuli_chr04	27731577	AA	GG	1946807128
SNP_P4_49974_27731585	NC_021163.1	Ca_kabuli_chr04	27731585	GG	TT	1946807130
SNP_P4_49975_27732662	NC_021163.1	Ca_kabuli_chr04	27732662	GG	AA	1946807132
SNP_P4_49976_27732886	NC_021163.1	Ca_kabuli_chr04	27732886	AA	GG	1946807134
SNP_P4_49977_27733890	NC_021163.1	Ca_kabuli_chr04	27733890	CC	TT	1946807136
SNP_P4_49978_27734187	NC_021163.1	Ca_kabuli_chr04	27734187	AA	TT	1946807138
SNP_P4_49979_27734472	NC_021163.1	Ca_kabuli_chr04	27734472	CC	AA	1946807141
SNP_P4_49980_27735108	NC_021163.1	Ca_kabuli_chr04	27735108	AA	CC	1946807143
SNP_P4_49981_27739295	NC_021163.1	Ca_kabuli_chr04	27739295	CC	TT	1946807145
SNP_P4_49982_27739310	NC_021163.1	Ca_kabuli_chr04	27739310	TT	GG	1946807147
SNP_P4_49983_27739741	NC_021163.1	Ca_kabuli_chr04	27739741	AA	CC	1946807149
SNP_P4_49984_27740757	NC_021163.1	Ca_kabuli_chr04	27740757	AA	GG	1946807150
SNP_P4_49985_27741546	NC_021163.1	Ca_kabuli_chr04	27741546	GG	CC	1946807153
SNP_P4_49986_27742599	NC_021163.1	Ca_kabuli_chr04	27742599	TT	AA	1946807155
SNP_P4_49987_27746243	NC_021163.1	Ca_kabuli_chr04	27746243	TT	GG	1946807157
SNP_P4_49989_27746551	NC_021163.1	Ca_kabuli_chr04	27746551	CC	TT	1946807159
SNP_P4_49990_27746568	NC_021163.1	Ca_kabuli_chr04	27746568	TT	AA	1946807161
SNP_P4_49991_27746689	NC_021163.1	Ca_kabuli_chr04	27746689	CC	TT	1946807163
SNP_P4_49992_27746721	NC_021163.1	Ca_kabuli_chr04	27746721	TT	CC	1946807165
SNP_P4_49993_27747443	NC_021163.1	Ca_kabuli_chr04	27747443	TT	CC	1946807167
SNP_P4_49994_27752848	NC_021163.1	Ca_kabuli_chr04	27752848	CC	TT	1946807169
SNP_P4_49995_27753131	NC_021163.1	Ca_kabuli_chr04	27753131	CC	TT	1946807171
SNP_P4_49996_27753296	NC_021163.1	Ca_kabuli_chr04	27753296	AA	TT	1946807173
SNP_P4_49997_27759383	NC_021163.1	Ca_kabuli_chr04	27759383	TT	GG	1946807176
SNP_P4_49998_27762725	NC_021163.1	Ca_kabuli_chr04	27762725	GG	CC	1946807178

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_50001_27766257	NC_021163.1	Ca_kabuli_chr04	27766257	GG	CC	1946807182
SNP_P4_50003_27789915	NC_021163.1	Ca_kabuli_chr04	27789915	TT	CC	1946807184
SNP_P4_50004_27790757	NC_021163.1	Ca_kabuli_chr04	27790757	AA	CC	1946807186
SNP_P4_50006_27797719	NC_021163.1	Ca_kabuli_chr04	27797719	CC	TT	1946807188
SNP_P4_50007_27799664	NC_021163.1	Ca_kabuli_chr04	27799664	CC	AA	1946807190
SNP_P4_50008_27800272	NC_021163.1	Ca_kabuli_chr04	27800272	GG	TT	1946807192
SNP_P4_50009_27801522	NC_021163.1	Ca_kabuli_chr04	27801522	AA	TT	1946807194
SNP_P4_50010_27807270	NC_021163.1	Ca_kabuli_chr04	27807270	TT	CC	1946807196
SNP_P4_50011_27819510	NC_021163.1	Ca_kabuli_chr04	27819510	AA	CC	1946807198
SNP_P4_50013_27822874	NC_021163.1	Ca_kabuli_chr04	27822874	CC	AA	1946807200
SNP_P4_50014_27828358	NC_021163.1	Ca_kabuli_chr04	27828358	TT	CC	1946807202
SNP_P4_50015_27837199	NC_021163.1	Ca_kabuli_chr04	27837199	AA	GG	1946807204
SNP_P4_50016_27837312	NC_021163.1	Ca_kabuli_chr04	27837312	AA	GG	1946807206
SNP_P4_50017_27842595	NC_021163.1	Ca_kabuli_chr04	27842595	CC	TT	1946807209
SNP_P4_50018_27843280	NC_021163.1	Ca_kabuli_chr04	27843280	AA	GG	1946807211
SNP_P4_50020_27847393	NC_021163.1	Ca_kabuli_chr04	27847393	GG	AA	1946807213
SNP_P4_50021_27849614	NC_021163.1	Ca_kabuli_chr04	27849614	GG	AA	1946807215
SNP_P4_50022_27849701	NC_021163.1	Ca_kabuli_chr04	27849701	CC	TT	1946807217
SNP_P4_50023_27849734	NC_021163.1	Ca_kabuli_chr04	27849734	GG	AA	1946807219
SNP_P4_50025_27852016	NC_021163.1	Ca_kabuli_chr04	27852016	AA	CC	1946807221
SNP_P4_50027_27853227	NC_021163.1	Ca_kabuli_chr04	27853227	CC	AA	1946807223
SNP_P4_50028_27853230	NC_021163.1	Ca_kabuli_chr04	27853230	TT	CC	1946807225
SNP_P4_50029_27853806	NC_021163.1	Ca_kabuli_chr04	27853806	CC	TT	1946807227
SNP_P4_50030_27854370	NC_021163.1	Ca_kabuli_chr04	27854370	TT	GG	1946807229
SNP_P4_50032_27856914	NC_021163.1	Ca_kabuli_chr04	27856914	TT	AA	1946807231
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SNP_P4_50034_27860770	NC_021163.1	Ca_kabuli_chr04	27860770	AA	GG	1946807235
SNP_P4_50035_27861838	NC_021163.1	Ca_kabuli_chr04	27861838	TT	CC	1946807237
SNP_P4_50036_27862238	NC_021163.1	Ca_kabuli_chr04	27862238	TT	GG	1946807239
SNP_P4_50038_27868907	NC_021163.1	Ca_kabuli_chr04	27868907	GG	AA	1946807241
SNP_P4_50039_27870536	NC_021163.1	Ca_kabuli_chr04	27870536	AA	GG	1946807244
SNP_P4_50040_27872775	NC_021163.1	Ca_kabuli_chr04	27872775	TT	GG	1946807246
SNP_P4_50042_27874449	NC_021163.1	Ca_kabuli_chr04	27874449	AA	GG	1946807248
SNP_P4_50044_27887936	NC_021163.1	Ca_kabuli_chr04	27887936	AA	GG	1946807250
SNP_P4_50045_27896974	NC_021163.1	Ca_kabuli_chr04	27896974	AA	TT	1946807252
SNP_P4_50047_27906848	NC_021163.1	Ca_kabuli_chr04	27906848	TT	CC	1946807254
SNP_P4_50048_27906861	NC_021163.1	Ca_kabuli_chr04	27906861	GG	AA	1946807257
SNP_P4_50049_27907407	NC_021163.1	Ca_kabuli_chr04	27907407	GG	TT	1946807259
SNP_P4_50050_27910206	NC_021163.1	Ca_kabuli_chr04	27910206	TT	CC	1946807261
SNP_P4_50051_27911754	NC_021163.1	Ca_kabuli_chr04	27911754	TT	CC	1946807263
SNP_P4_50052_27924897	NC_021163.1	Ca_kabuli_chr04	27924897	GG	AA	1946807265

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_50054_27927897	NC_021163.1	Ca_kabuli_chr04	27927897	GG	AA	1946807269
SNP_P4_50055_27928558	NC_021163.1	Ca_kabuli_chr04	27928558	TT	CC	1946807271
SNP_P4_50056_27928723	NC_021163.1	Ca_kabuli_chr04	27928723	GG	TT	1946807273
SNP_P4_50057_27928726	NC_021163.1	Ca_kabuli_chr04	27928726	GG	AA	1946807275
SNP_P4_50058_27928746	NC_021163.1	Ca_kabuli_chr04	27928746	TT	CC	1946807278
SNP_P4_50059_27928758	NC_021163.1	Ca_kabuli_chr04	27928758	GG	TT	1946807280
SNP_P4_50060_27928793	NC_021163.1	Ca_kabuli_chr04	27928793	CC	TT	1946807282
SNP_P4_50061_27928804	NC_021163.1	Ca_kabuli_chr04	27928804	AA	CC	1946807284
SNP_P4_50062_27928809	NC_021163.1	Ca_kabuli_chr04	27928809	CC	AA	1946807287
SNP_P4_50064_27928844	NC_021163.1	Ca_kabuli_chr04	27928844	TT	CC	1946807289
SNP_P4_50065_27928869	NC_021163.1	Ca_kabuli_chr04	27928869	CC	TT	1946807291
SNP_P4_50066_27928890	NC_021163.1	Ca_kabuli_chr04	27928890	CC	GG	1946807293
SNP_P4_50067_27928914	NC_021163.1	Ca_kabuli_chr04	27928914	TT	AA	1946807295
SNP_P4_50068_27928930	NC_021163.1	Ca_kabuli_chr04	27928930	TT	GG	1946807298
SNP_P4_50069_27928936	NC_021163.1	Ca_kabuli_chr04	27928936	CC	GG	1946807300
SNP_P4_50070_27928937	NC_021163.1	Ca_kabuli_chr04	27928937	CC	TT	1946807302
SNP_P4_50071_27928958	NC_021163.1	Ca_kabuli_chr04	27928958	AA	CC	1946807305
SNP_P4_50073_27929961	NC_021163.1	Ca_kabuli_chr04	27929961	GG	TT	1946807307
SNP_P4_50074_27930479	NC_021163.1	Ca_kabuli_chr04	27930479	TT	CC	1946807309
SNP_P4_50075_27930489	NC_021163.1	Ca_kabuli_chr04	27930489	TT	CC	1946807312
SNP_P4_50076_27930548	NC_021163.1	Ca_kabuli_chr04	27930548	AA	GG	1946807314
SNP_P4_50077_27930558	NC_021163.1	Ca_kabuli_chr04	27930558	AA	CC	1946807316
SNP_P4_50078_27930572	NC_021163.1	Ca_kabuli_chr04	27930572	TT	CC	1946807318
SNP_P4_50079_27930647	NC_021163.1	Ca_kabuli_chr04	27930647	TT	CC	1946807320
SNP_P4_50080_27931021	NC_021163.1	Ca_kabuli_chr04	27931021	AA	GG	1946807323
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SNP_P4_50082_27936690	NC_021163.1	Ca_kabuli_chr04	27936690	GG	AA	1946807327
SNP_P4_50083_27938039	NC_021163.1	Ca_kabuli_chr04	27938039	TT	CC	1946807329
SNP_P4_50084_27938445	NC_021163.1	Ca_kabuli_chr04	27938445	AA	GG	1946807331
SNP_P4_50085_27938480	NC_021163.1	Ca_kabuli_chr04	27938480	AA	GG	1946807333
SNP_P4_50086_27943461	NC_021163.1	Ca_kabuli_chr04	27943461	TT	GG	1946807335
SNP_P4_50087_27943477	NC_021163.1	Ca_kabuli_chr04	27943477	TT	CC	1946807337
SNP_P4_50088_27943511	NC_021163.1	Ca_kabuli_chr04	27943511	GG	AA	1946807339
SNP_P4_50089_27943636	NC_021163.1	Ca_kabuli_chr04	27943636	TT	GG	1946807341
SNP_P4_50090_27943642	NC_021163.1	Ca_kabuli_chr04	27943642	CC	TT	1946807343
SNP_P4_50091_27943693	NC_021163.1	Ca_kabuli_chr04	27943693	TT	CC	1946807345
SNP_P4_50092_27946409	NC_021163.1	Ca_kabuli_chr04	27946409	GG	TT	1946807347
SNP_P4_50093_27946410	NC_021163.1	Ca_kabuli_chr04	27946410	TT	AA	1946807349
SNP_P4_50094_27953155	NC_021163.1	Ca_kabuli_chr04	27953155	CC	TT	1946807351
SNP_P4_50096_27961328	NC_021163.1	Ca_kabuli_chr04	27961328	TT	CC	1946807353
SNP_P4_50097_27962250	NC_021163.1	Ca_kabuli_chr04	27962250	TT	CC	1946807355

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_50100_27965034	NC_021163.1	Ca_kabuli_chr04	27965034	TT	AA	1946807362
SNP_P4_50101_27967076	NC_021163.1	Ca_kabuli_chr04	27967076	CC	TT	1946807364
SNP_P4_50102_27976346	NC_021163.1	Ca_kabuli_chr04	27976346	AA	GG	1946807366
SNP_P4_50103_27979161	NC_021163.1	Ca_kabuli_chr04	27979161	AA	GG	1946807368
SNP_P4_50104_27981651	NC_021163.1	Ca_kabuli_chr04	27981651	CC	TT	1946807370
SNP_P4_50105_27983516	NC_021163.1	Ca_kabuli_chr04	27983516	GG	AA	1946807372
SNP_P4_50106_27983785	NC_021163.1	Ca_kabuli_chr04	27983785	TT	AA	1946807374
SNP_P4_50107_27984614	NC_021163.1	Ca_kabuli_chr04	27984614	TT	AA	1946807376
SNP_P4_50108_27984835	NC_021163.1	Ca_kabuli_chr04	27984835	TT	AA	1946807379
SNP_P4_50109_27996949	NC_021163.1	Ca_kabuli_chr04	27996949	CC	TT	1946807381
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SNP_P4_50112_27997230	NC_021163.1	Ca_kabuli_chr04	27997230	CC	TT	1946807387
SNP_P4_50113_27997235	NC_021163.1	Ca_kabuli_chr04	27997235	CC	TT	1946807389
SNP_P4_50114_27997239	NC_021163.1	Ca_kabuli_chr04	27997239	AA	TT	1946807391
SNP_P4_50115_27997243	NC_021163.1	Ca_kabuli_chr04	27997243	AA	TT	1946807393
SNP_P4_50116_27997335	NC_021163.1	Ca_kabuli_chr04	27997335	CC	TT	1946807395
SNP_P4_50117_27997512	NC_021163.1	Ca_kabuli_chr04	27997512	AA	CC	1946807397
SNP_P4_50118_27997527	NC_021163.1	Ca_kabuli_chr04	27997527	CC	TT	1946807399
SNP_P4_50119_27997536	NC_021163.1	Ca_kabuli_chr04	27997536	AA	TT	1946807401
SNP_P4_50120_27997538	NC_021163.1	Ca_kabuli_chr04	27997538	TT	GG	1946807404
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SNP_P4_50124_28013390	NC_021163.1	Ca_kabuli_chr04	28013390	TT	GG	1946807410
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SNP_P4_50128_28013476	NC_021163.1	Ca_kabuli_chr04	28013476	AA	GG	1946807418
SNP_P4_50129_28017835	NC_021163.1	Ca_kabuli_chr04	28017835	AA	TT	1946807420
SNP_P4_50130_28017842	NC_021163.1	Ca_kabuli_chr04	28017842	TT	GG	1946807422
SNP_P4_50131_28017871	NC_021163.1	Ca_kabuli_chr04	28017871	TT	CC	1946807424
SNP_P4_50132_28018314	NC_021163.1	Ca_kabuli_chr04	28018314	CC	TT	1946807426
SNP_P4_50133_28018565	NC_021163.1	Ca_kabuli_chr04	28018565	GG	AA	1946807428
SNP_P4_50135_28018610	NC_021163.1	Ca_kabuli_chr04	28018610	CC	TT	1946807430
SNP_P4_50136_28018661	NC_021163.1	Ca_kabuli_chr04	28018661	AA	TT	1946807433
SNP_P4_50137_28018945	NC_021163.1	Ca_kabuli_chr04	28018945	CC	TT	1946807435
SNP_P4_50138_28018969	NC_021163.1	Ca_kabuli_chr04	28018969	AA	GG	1946807437
SNP_P4_50139_28019047	NC_021163.1	Ca_kabuli_chr04	28019047	GG	TT	1946807439
SNP_P4_50140_28019093	NC_021163.1	Ca_kabuli_chr04	28019093	AA	TT	1946807441
SNP_P4_50141_28019097	NC_021163.1	Ca_kabuli_chr04	28019097	TT	AA	1946807443

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_50143_28019271	NC_021163.1	Ca_kabuli_chr04	28019271	GG	CC	1946807447
SNP_P4_50144_28019565	NC_021163.1	Ca_kabuli_chr04	28019565	TT	AA	1946807449
SNP_P4_50146_28020274	NC_021163.1	Ca_kabuli_chr04	28020274	AA	GG	1946807451
SNP_P4_50147_28020286	NC_021163.1	Ca_kabuli_chr04	28020286	AA	GG	1946807453
SNP_P4_50148_28020287	NC_021163.1	Ca_kabuli_chr04	28020287	TT	CC	1946807456
SNP_P4_50149_28020296	NC_021163.1	Ca_kabuli_chr04	28020296	GG	AA	1946807458
SNP_P4_50150_28020569	NC_021163.1	Ca_kabuli_chr04	28020569	TT	GG	1946807460
SNP_P4_50152_28020589	NC_021163.1	Ca_kabuli_chr04	28020589	GG	AA	1946807462
SNP_P4_50153_28020591	NC_021163.1	Ca_kabuli_chr04	28020591	CC	TT	1946807464
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SNP_P4_50159_28022567	NC_021163.1	Ca_kabuli_chr04	28022567	CC	TT	1946807476
SNP_P4_50160_28022606	NC_021163.1	Ca_kabuli_chr04	28022606	TT	AA	1946807478
SNP_P4_50161_28023281	NC_021163.1	Ca_kabuli_chr04	28023281	CC	TT	1946807480
SNP_P4_50163_28023634	NC_021163.1	Ca_kabuli_chr04	28023634	AA	GG	1946807482
SNP_P4_50164_28023654	NC_021163.1	Ca_kabuli_chr04	28023654	TT	CC	1946807484
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SNP_P4_50166_28023753	NC_021163.1	Ca_kabuli_chr04	28023753	AA	GG	1946807488
SNP_P4_50167_28023757	NC_021163.1	Ca_kabuli_chr04	28023757	CC	AA	1946807490
SNP_P4_50168_28023859	NC_021163.1	Ca_kabuli_chr04	28023859	CC	TT	1946807492
SNP_P4_50169_28024898	NC_021163.1	Ca_kabuli_chr04	28024898	GG	AA	1946807494
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SNP_P4_50171_28025314	NC_021163.1	Ca_kabuli_chr04	28025314	CC	TT	1946807499
SNP_P4_50172_28025365	NC_021163.1	Ca_kabuli_chr04	28025365	TT	CC	1946807501
SNP_P4_50173_28025367	NC_021163.1	Ca_kabuli_chr04	28025367	CC	TT	1946807503
SNP_P4_50174_28025374	NC_021163.1	Ca_kabuli_chr04	28025374	GG	AA	1946807505
SNP_P4_50175_28025539	NC_021163.1	Ca_kabuli_chr04	28025539	GG	AA	1946807508
SNP_P4_50176_28025738	NC_021163.1	Ca_kabuli_chr04	28025738	AA	TT	1946807510
SNP_P4_50177_28025757	NC_021163.1	Ca_kabuli_chr04	28025757	AA	CC	1946807512
SNP_P4_50178_28026351	NC_021163.1	Ca_kabuli_chr04	28026351	GG	AA	1946807514
SNP_P4_50179_28026367	NC_021163.1	Ca_kabuli_chr04	28026367	AA	GG	1946807516
SNP_P4_50180_28026488	NC_021163.1	Ca_kabuli_chr04	28026488	CC	AA	1946807519
SNP_P4_50181_28026704	NC_021163.1	Ca_kabuli_chr04	28026704	GG	AA	1946807521
SNP_P4_50182_28026708	NC_021163.1	Ca_kabuli_chr04	28026708	AA	GG	1946807523
SNP_P4_50183_28026730	NC_021163.1	Ca_kabuli_chr04	28026730	AA	GG	1946807525
SNP_P4_50184_28026785	NC_021163.1	Ca_kabuli_chr04	28026785	GG	AA	1946807527
SNP_P4_50185_28026819	NC_021163.1	Ca_kabuli_chr04	28026819	GG	AA	1946807529
SNP_P4_50187_28026893	NC_021163.1	Ca_kabuli_chr04	28026893	GG	TT	1946807531

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_50188_28027120	NC_021163.1	Ca_kabuli_chr04	28027120	AA	GG	1946807533
SNP_P4_50189_28027167	NC_021163.1	Ca_kabuli_chr04	28027167	GG	TT	1946807535
SNP_P4_50190_28027173	NC_021163.1	Ca_kabuli_chr04	28027173	AA	GG	1946807537
SNP_P4_50191_28027209	NC_021163.1	Ca_kabuli_chr04	28027209	GG	AA	1946807539
SNP_P4_50192_28027210	NC_021163.1	Ca_kabuli_chr04	28027210	GG	TT	1946807541
SNP_P4_50193_28027233	NC_021163.1	Ca_kabuli_chr04	28027233	TT	GG	1946807543
SNP_P4_50194_28034833	NC_021163.1	Ca_kabuli_chr04	28034833	CC	GG	1946807545
SNP_P4_50195_28035330	NC_021163.1	Ca_kabuli_chr04	28035330	AA	TT	1946807547
SNP_P4_50196_28039066	NC_021163.1	Ca_kabuli_chr04	28039066	CC	GG	1946807549
SNP_P4_50197_28039079	NC_021163.1	Ca_kabuli_chr04	28039079	AA	GG	1946807551
SNP_P4_50198_28039082	NC_021163.1	Ca_kabuli_chr04	28039082	AA	GG	1946807553
SNP_P4_50199_28041576	NC_021163.1	Ca_kabuli_chr04	28041576	GG	AA	1946807555
SNP_P4_50200_28041577	NC_021163.1	Ca_kabuli_chr04	28041577	GG	TT	1946807557
SNP_P4_50201_28042439	NC_021163.1	Ca_kabuli_chr04	28042439	TT	AA	1946807559
SNP_P4_50202_28042442	NC_021163.1	Ca_kabuli_chr04	28042442	GG	TT	1946807561
SNP_P4_50203_28042454	NC_021163.1	Ca_kabuli_chr04	28042454	CC	TT	1946807563
SNP_P4_50205_28042774	NC_021163.1	Ca_kabuli_chr04	28042774	GG	AA	1946807566
SNP_P4_50206_28042776	NC_021163.1	Ca_kabuli_chr04	28042776	CC	TT	1946807568
SNP_P4_50207_28042820	NC_021163.1	Ca_kabuli_chr04	28042820	GG	AA	1946807570
SNP_P4_50208_28042822	NC_021163.1	Ca_kabuli_chr04	28042822	AA	TT	1946807572
SNP_P4_50209_28042938	NC_021163.1	Ca_kabuli_chr04	28042938	GG	AA	1946807574
SNP_P4_50210_28042988	NC_021163.1	Ca_kabuli_chr04	28042988	AA	CC	1946807576
SNP_P4_50211_28043006	NC_021163.1	Ca_kabuli_chr04	28043006	AA	GG	1946807578
SNP_P4_50212_28043762	NC_021163.1	Ca_kabuli_chr04	28043762	AA	GG	1946807580
SNP_P4_50213_28043764	NC_021163.1	Ca_kabuli_chr04	28043764	GG	TT	1946807582
SNP_P4_50214_28043771	NC_021163.1	Ca_kabuli_chr04	28043771	TT	CC	1946807584
SNP_P4_50215_28044130	NC_021163.1	Ca_kabuli_chr04	28044130	CC	TT	1946807587
SNP_P4_50216_28046780	NC_021163.1	Ca_kabuli_chr04	28046780	CC	AA	1946807589
SNP_P4_50217_28049613	NC_021163.1	Ca_kabuli_chr04	28049613	CC	AA	1946807591
SNP_P4_50218_28049687	NC_021163.1	Ca_kabuli_chr04	28049687	CC	AA	1946807593
SNP_P4_50219_28049938	NC_021163.1	Ca_kabuli_chr04	28049938	GG	TT	1946807595
SNP_P4_50220_28050985	NC_021163.1	Ca_kabuli_chr04	28050985	GG	AA	1946807597
SNP_P4_50221_28050989	NC_021163.1	Ca_kabuli_chr04	28050989	GG	AA	1946807599
SNP_P4_50222_28051043	NC_021163.1	Ca_kabuli_chr04	28051043	CC	TT	1946807601
SNP_P4_50223_28053023	NC_021163.1	Ca_kabuli_chr04	28053023	GG	AA	1946807604
SNP_P4_50224_28056742	NC_021163.1	Ca_kabuli_chr04	28056742	AA	GG	1946807606
SNP_P4_50225_28058182	NC_021163.1	Ca_kabuli_chr04	28058182	AA	GG	1946807608
SNP_P4_50226_28058258	NC_021163.1	Ca_kabuli_chr04	28058258	CC	TT	1946807610
SNP_P4_50229_28061983	NC_021163.1	Ca_kabuli_chr04	28061983	TT	CC	1946807612
SNP_P4_50231_28062476	NC_021163.1	Ca_kabuli_chr04	28062476	AA	GG	1946807615
SNP_P4_50232_28064446	NC_021163.1	Ca_kabuli_chr04	28064446	TT	AA	1946807617
SNP_P4_50233_28064476	NC_021163.1	Ca_kabuli_chr04	28064476	CC	TT	1946807619

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_50234_28066548	NC_021163.1	Ca_kabuli_chr04	28066548	GG	AA	1946807621
SNP_P4_50235_28067801	NC_021163.1	Ca_kabuli_chr04	28067801	AA	CC	1946807623
SNP_P4_50236_28067815	NC_021163.1	Ca_kabuli_chr04	28067815	GG	AA	1946807625
SNP_P4_50237_28068071	NC_021163.1	Ca_kabuli_chr04	28068071	AA	TT	1946807627
SNP_P4_50238_28074708	NC_021163.1	Ca_kabuli_chr04	28074708	CC	TT	1946807629
SNP_P4_50239_28076936	NC_021163.1	Ca_kabuli_chr04	28076936	AA	TT	1946807631
SNP_P4_50240_28078475	NC_021163.1	Ca_kabuli_chr04	28078475	AA	GG	1946807633
SNP_P4_50242_28089178	NC_021163.1	Ca_kabuli_chr04	28089178	GG	AA	1946807635
SNP_P4_50243_28089427	NC_021163.1	Ca_kabuli_chr04	28089427	GG	AA	1946807637
SNP_P4_50244_28098982	NC_021163.1	Ca_kabuli_chr04	28098982	TT	CC	1946807640
SNP_P4_50245_28099190	NC_021163.1	Ca_kabuli_chr04	28099190	GG	AA	1946807642
SNP_P4_50246_28099384	NC_021163.1	Ca_kabuli_chr04	28099384	TT	AA	1946807644
SNP_P4_50247_28101408	NC_021163.1	Ca_kabuli_chr04	28101408	GG	AA	1946807646
SNP_P4_50248_28101520	NC_021163.1	Ca_kabuli_chr04	28101520	CC	AA	1946807648
SNP_P4_50249_28101540	NC_021163.1	Ca_kabuli_chr04	28101540	CC	AA	1946807650
SNP_P4_50250_28101918	NC_021163.1	Ca_kabuli_chr04	28101918	GG	AA	1946807652
SNP_P4_50251_28102976	NC_021163.1	Ca_kabuli_chr04	28102976	CC	TT	1946807654
SNP_P4_50252_28103545	NC_021163.1	Ca_kabuli_chr04	28103545	AA	CC	1946807656
SNP_P4_50253_28103659	NC_021163.1	Ca_kabuli_chr04	28103659	TT	CC	1946807658
SNP_P4_50254_28106442	NC_021163.1	Ca_kabuli_chr04	28106442	TT	AA	1946807660
SNP_P4_50256_28111288	NC_021163.1	Ca_kabuli_chr04	28111288	TT	GG	1946807662
SNP_P4_50257_28112743	NC_021163.1	Ca_kabuli_chr04	28112743	TT	AA	1946807665
SNP_P4_50258_28116321	NC_021163.1	Ca_kabuli_chr04	28116321	GG	CC	1946807667
SNP_P4_50259_28116496	NC_021163.1	Ca_kabuli_chr04	28116496	GG	AA	1946807669
SNP_P4_50260_28116497	NC_021163.1	Ca_kabuli_chr04	28116497	GG	AA	1946807670
SNP_P4_50261_28119542	NC_021163.1	Ca_kabuli_chr04	28119542	CC	TT	1946807672
SNP_P4_50265_28121867	NC_021163.1	Ca_kabuli_chr04	28121867	CC	AA	1946807674
SNP_P4_50266_28122050	NC_021163.1	Ca_kabuli_chr04	28122050	AA	GG	1946807676
SNP_P4_50267_28122090	NC_021163.1	Ca_kabuli_chr04	28122090	TT	CC	1946807678
SNP_P4_50268_28122222	NC_021163.1	Ca_kabuli_chr04	28122222	TT	CC	1946807680
SNP_P4_50269_28123536	NC_021163.1	Ca_kabuli_chr04	28123536	TT	GG	1946807682
SNP_P4_50270_28129097	NC_021163.1	Ca_kabuli_chr04	28129097	AA	TT	1946807684
SNP_P4_50272_28134532	NC_021163.1	Ca_kabuli_chr04	28134532	TT	CC	1946807686
SNP_P4_50273_28139033	NC_021163.1	Ca_kabuli_chr04	28139033	GG	AA	1946807688
SNP_P4_50274_28139041	NC_021163.1	Ca_kabuli_chr04	28139041	AA	GG	1946807690
SNP_P4_50275_28139064	NC_021163.1	Ca_kabuli_chr04	28139064	GG	AA	1946807692
SNP_P4_50276_28139838	NC_021163.1	Ca_kabuli_chr04	28139838	TT	CC	1946807694
SNP_P4_50277_28139930	NC_021163.1	Ca_kabuli_chr04	28139930	CC	AA	1946807696
SNP_P4_50278_28139968	NC_021163.1	Ca_kabuli_chr04	28139968	GG	TT	1946807698
SNP_P4_50279_28140004	NC_021163.1	Ca_kabuli_chr04	28140004	TT	CC	1946807700
SNP_P4_50280_28140051	NC_021163.1	Ca_kabuli_chr04	28140051	CC	GG	1946807702
SNP_P4_50281_28140073	NC_021163.1	Ca_kabuli_chr04	28140073	AA	GG	1946807704

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_50283_28140094	NC_021163.1	Ca_kabuli_chr04	28140094	TT	CC	1946807708
SNP_P4_50284_28140226	NC_021163.1	Ca_kabuli_chr04	28140226	AA	GG	1946807710
SNP_P4_50285_28140234	NC_021163.1	Ca_kabuli_chr04	28140234	GG	AA	1946807712
SNP_P4_50286_28140276	NC_021163.1	Ca_kabuli_chr04	28140276	GG	AA	1946807714
SNP_P4_50287_28140281	NC_021163.1	Ca_kabuli_chr04	28140281	AA	CC	1946807716
SNP_P4_50288_28140331	NC_021163.1	Ca_kabuli_chr04	28140331	TT	CC	1946807718
SNP_P4_50289_28140376	NC_021163.1	Ca_kabuli_chr04	28140376	CC	TT	1946807720
SNP_P4_50290_28141050	NC_021163.1	Ca_kabuli_chr04	28141050	CC	TT	1946807722
SNP_P4_50291_28142303	NC_021163.1	Ca_kabuli_chr04	28142303	GG	AA	1946807724
SNP_P4_50293_28144385	NC_021163.1	Ca_kabuli_chr04	28144385	AA	CC	1946807726
SNP_P4_50294_28145141	NC_021163.1	Ca_kabuli_chr04	28145141	AA	GG	1946807728
SNP_P4_50295_28145307	NC_021163.1	Ca_kabuli_chr04	28145307	CC	TT	1946807730
SNP_P4_50296_28145351	NC_021163.1	Ca_kabuli_chr04	28145351	GG	AA	1946807732
SNP_P4_50297_28145489	NC_021163.1	Ca_kabuli_chr04	28145489	CC	AA	1946807734
SNP_P4_50298_28145675	NC_021163.1	Ca_kabuli_chr04	28145675	TT	GG	1946807736
SNP_P4_50299_28145832	NC_021163.1	Ca_kabuli_chr04	28145832	AA	GG	1946807738
SNP_P4_50300_28148089	NC_021163.1	Ca_kabuli_chr04	28148089	TT	CC	1946807740
SNP_P4_50301_28148272	NC_021163.1	Ca_kabuli_chr04	28148272	AA	GG	1946807742
SNP_P4_50303_28150054	NC_021163.1	Ca_kabuli_chr04	28150054	CC	TT	1946807744
SNP_P4_50305_28150152	NC_021163.1	Ca_kabuli_chr04	28150152	CC	TT	1946807746
SNP_P4_50306_28150522	NC_021163.1	Ca_kabuli_chr04	28150522	GG	AA	1946807748
SNP_P4_50307_28150612	NC_021163.1	Ca_kabuli_chr04	28150612	AA	GG	1946807750
SNP_P4_50308_28150618	NC_021163.1	Ca_kabuli_chr04	28150618	GG	AA	1946807752
SNP_P4_50309_28150697	NC_021163.1	Ca_kabuli_chr04	28150697	GG	AA	1946807754
SNP_P4_50310_28150698	NC_021163.1	Ca_kabuli_chr04	28150698	CC	TT	1946807756
SNP_P4_50311_28150907	NC_021163.1	Ca_kabuli_chr04	28150907	GG	AA	1946807758
SNP_P4_50312_28151113	NC_021163.1	Ca_kabuli_chr04	28151113	TT	CC	1946807760
SNP_P4_50313_28151240	NC_021163.1	Ca_kabuli_chr04	28151240	AA	GG	1946807762
SNP_P4_50314_28151526	NC_021163.1	Ca_kabuli_chr04	28151526	TT	CC	1946807764
SNP_P4_50315_28151537	NC_021163.1	Ca_kabuli_chr04	28151537	AA	GG	1946807766
SNP_P4_50316_28151729	NC_021163.1	Ca_kabuli_chr04	28151729	TT	CC	1946807768
SNP_P4_50317_28152028	NC_021163.1	Ca_kabuli_chr04	28152028	GG	AA	1946807770
SNP_P4_50318_28152276	NC_021163.1	Ca_kabuli_chr04	28152276	CC	AA	1946807772
SNP_P4_50319_28152351	NC_021163.1	Ca_kabuli_chr04	28152351	CC	TT	1946807774
SNP_P4_50320_28152415	NC_021163.1	Ca_kabuli_chr04	28152415	CC	TT	1946807776
SNP_P4_50321_28152462	NC_021163.1	Ca_kabuli_chr04	28152462	GG	CC	1946807778
SNP_P4_50322_28153147	NC_021163.1	Ca_kabuli_chr04	28153147	TT	CC	1946807779
SNP_P4_50324_28153271	NC_021163.1	Ca_kabuli_chr04	28153271	CC	TT	1946807781
SNP_P4_50325_28153351	NC_021163.1	Ca_kabuli_chr04	28153351	CC	TT	1946807783
SNP_P4_50326_28153436	NC_021163.1	Ca_kabuli_chr04	28153436	GG	AA	1946807785
SNP_P4_50328_28159885	NC_021163.1	Ca_kabuli_chr04	28159885	GG	CC	1946807787

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_50329_28160131	NC_021163.1	Ca_kabuli_chr04	28160131	AA	GG	1946807789
SNP_P4_50330_28160163	NC_021163.1	Ca_kabuli_chr04	28160163	AA	CC	1946807791
SNP_P4_50331_28160517	NC_021163.1	Ca_kabuli_chr04	28160517	TT	GG	1946807793
SNP_P4_50332_28160572	NC_021163.1	Ca_kabuli_chr04	28160572	GG	AA	1946807795
SNP_P4_50334_28163326	NC_021163.1	Ca_kabuli_chr04	28163326	GG	AA	1946807797
SNP_P4_50336_28164830	NC_021163.1	Ca_kabuli_chr04	28164830	TT	CC	1946807799
SNP_P4_50337_28166047	NC_021163.1	Ca_kabuli_chr04	28166047	GG	AA	1946807801
SNP_P4_50338_28168679	NC_021163.1	Ca_kabuli_chr04	28168679	CC	AA	1946807803
SNP_P4_50339_28168989	NC_021163.1	Ca_kabuli_chr04	28168989	AA	GG	1946807805
SNP_P4_50340_28168994	NC_021163.1	Ca_kabuli_chr04	28168994	AA	CC	1946807807
SNP_P4_50341_28168998	NC_021163.1	Ca_kabuli_chr04	28168998	TT	GG	1946807809
SNP_P4_50343_28169227	NC_021163.1	Ca_kabuli_chr04	28169227	AA	TT	1946807811
SNP_P4_50345_28169360	NC_021163.1	Ca_kabuli_chr04	28169360	GG	AA	1946807813
SNP_P4_50346_28169750	NC_021163.1	Ca_kabuli_chr04	28169750	GG	CC	1946807815
SNP_P4_50347_28169759	NC_021163.1	Ca_kabuli_chr04	28169759	GG	AA	1946807817
SNP_P4_50348_28171312	NC_021163.1	Ca_kabuli_chr04	28171312	CC	AA	1946807819
SNP_P4_50349_28171545	NC_021163.1	Ca_kabuli_chr04	28171545	GG	AA	1946807821
SNP_P4_50350_28171636	NC_021163.1	Ca_kabuli_chr04	28171636	AA	CC	1946807823
SNP_P4_50351_28172104	NC_021163.1	Ca_kabuli_chr04	28172104	AA	GG	1946807825
SNP_P4_50352_28172236	NC_021163.1	Ca_kabuli_chr04	28172236	TT	AA	1946807827
SNP_P4_50353_28172855	NC_021163.1	Ca_kabuli_chr04	28172855	AA	GG	1946807829
SNP_P4_50354_28172889	NC_021163.1	Ca_kabuli_chr04	28172889	TT	CC	1946807831
SNP_P4_50355_28173646	NC_021163.1	Ca_kabuli_chr04	28173646	CC	AA	1946807833
SNP_P4_50356_28174753	NC_021163.1	Ca_kabuli_chr04	28174753	GG	TT	1946807835
SNP_P4_50357_28175239	NC_021163.1	Ca_kabuli_chr04	28175239	AA	GG	1946807837
SNP_P4_50358_28175567	NC_021163.1	Ca_kabuli_chr04	28175567	TT	GG	1946807839
SNP_P4_50359_28175593	NC_021163.1	Ca_kabuli_chr04	28175593	CC	TT	1946807842
SNP_P4_50360_28175769	NC_021163.1	Ca_kabuli_chr04	28175769	GG	AA	1946807844
SNP_P4_50361_28175770	NC_021163.1	Ca_kabuli_chr04	28175770	CC	TT	1946807846
SNP_P4_50362_28177086	NC_021163.1	Ca_kabuli_chr04	28177086	TT	AA	1946807848
SNP_P4_50363_28177087	NC_021163.1	Ca_kabuli_chr04	28177087	TT	CC	1946807850
SNP_P4_50364_28177412	NC_021163.1	Ca_kabuli_chr04	28177412	AA	TT	1946807852
SNP_P4_50366_28177525	NC_021163.1	Ca_kabuli_chr04	28177525	GG	TT	1946807854
SNP_P4_50367_28177733	NC_021163.1	Ca_kabuli_chr04	28177733	TT	CC	1946807856
SNP_P4_50368_28177780	NC_021163.1	Ca_kabuli_chr04	28177780	AA	GG	1946807858
SNP_P4_50369_28178472	NC_021163.1	Ca_kabuli_chr04	28178472	AA	GG	1946807860
SNP_P4_50370_28178531	NC_021163.1	Ca_kabuli_chr04	28178531	TT	CC	1946807862
SNP_P4_50371_28178543	NC_021163.1	Ca_kabuli_chr04	28178543	CC	TT	1946807864
SNP_P4_50372_28178591	NC_021163.1	Ca_kabuli_chr04	28178591	TT	CC	1946807867
SNP_P4_50373_28178615	NC_021163.1	Ca_kabuli_chr04	28178615	TT	AA	1946807870
SNP_P4_50374_28179156	NC_021163.1	Ca_kabuli_chr04	28179156	CC	GG	1946807872
SNP_P4_50375_28180155	NC_021163.1	Ca_kabuli_chr04	28180155	AA	TT	1946807874

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_50377_28180402	NC_021163.1	Ca_kabuli_chr04	28180402	AA	GG	1946807879
SNP_P4_50378_28180426	NC_021163.1	Ca_kabuli_chr04	28180426	TT	GG	1946807881
SNP_P4_50380_28180459	NC_021163.1	Ca_kabuli_chr04	28180459	TT	CC	1946807883
SNP_P4_50381_28181528	NC_021163.1	Ca_kabuli_chr04	28181528	AA	GG	1946807885
SNP_P4_50382_28181534	NC_021163.1	Ca_kabuli_chr04	28181534	AA	GG	1946807887
SNP_P4_50383_28181787	NC_021163.1	Ca_kabuli_chr04	28181787	TT	CC	1946807889
SNP_P4_50384_28181841	NC_021163.1	Ca_kabuli_chr04	28181841	TT	CC	1946807891
SNP_P4_50385_28181921	NC_021163.1	Ca_kabuli_chr04	28181921	TT	AA	1946807893
SNP_P4_50386_28181926	NC_021163.1	Ca_kabuli_chr04	28181926	TT	AA	1946807895
SNP_P4_50387_28181928	NC_021163.1	Ca_kabuli_chr04	28181928	GG	AA	1946807898
SNP_P4_50388_28181942	NC_021163.1	Ca_kabuli_chr04	28181942	AA	GG	1946807900
SNP_P4_50389_28182064	NC_021163.1	Ca_kabuli_chr04	28182064	AA	GG	1946807902
SNP_P4_50390_28182209	NC_021163.1	Ca_kabuli_chr04	28182209	AA	CC	1946807904
SNP_P4_50391_28182846	NC_021163.1	Ca_kabuli_chr04	28182846	TT	AA	1946807907
SNP_P4_50392_28183140	NC_021163.1	Ca_kabuli_chr04	28183140	GG	TT	1946807909
SNP_P4_50393_28183195	NC_021163.1	Ca_kabuli_chr04	28183195	GG	AA	1946807911
SNP_P4_50394_28183306	NC_021163.1	Ca_kabuli_chr04	28183306	AA	CC	1946807913
SNP_P4_50395_28183323	NC_021163.1	Ca_kabuli_chr04	28183323	CC	AA	1946807915
SNP_P4_50396_28183327	NC_021163.1	Ca_kabuli_chr04	28183327	AA	GG	1946807917
SNP_P4_50397_28183371	NC_021163.1	Ca_kabuli_chr04	28183371	CC	TT	1946807919
SNP_P4_50398_28183460	NC_021163.1	Ca_kabuli_chr04	28183460	AA	GG	1946807921
SNP_P4_50400_28183587	NC_021163.1	Ca_kabuli_chr04	28183587	CC	GG	1946807923
SNP_P4_50401_28183628	NC_021163.1	Ca_kabuli_chr04	28183628	GG	AA	1946807925
SNP_P4_50402_28183808	NC_021163.1	Ca_kabuli_chr04	28183808	CC	AA	1946807927
SNP_P4_50403_28183810	NC_021163.1	Ca_kabuli_chr04	28183810	AA	CC	1946807929
SNP_P4_50404_28183971	NC_021163.1	Ca_kabuli_chr04	28183971	CC	GG	1946807931
SNP_P4_50406_28184138	NC_021163.1	Ca_kabuli_chr04	28184138	AA	TT	1946807933
SNP_P4_50407_28184689	NC_021163.1	Ca_kabuli_chr04	28184689	GG	AA	1946807935
SNP_P4_50409_28201024	NC_021163.1	Ca_kabuli_chr04	28201024	TT	AA	1946807937
SNP_P4_50410_28201408	NC_021163.1	Ca_kabuli_chr04	28201408	GG	AA	1946807939
SNP_P4_50411_28201651	NC_021163.1	Ca_kabuli_chr04	28201651	CC	TT	1946807941
SNP_P4_50412_28201654	NC_021163.1	Ca_kabuli_chr04	28201654	CC	AA	1946807943
SNP_P4_50413_28201685	NC_021163.1	Ca_kabuli_chr04	28201685	AA	TT	1946807945
SNP_P4_50414_28201816	NC_021163.1	Ca_kabuli_chr04	28201816	TT	AA	1946807947
SNP_P4_50415_28201821	NC_021163.1	Ca_kabuli_chr04	28201821	TT	AA	1946807949
SNP_P4_50416_28202148	NC_021163.1	Ca_kabuli_chr04	28202148	CC	AA	1946807951
SNP_P4_50417_28202189	NC_021163.1	Ca_kabuli_chr04	28202189	TT	AA	1946807953
SNP_P4_50418_28202501	NC_021163.1	Ca_kabuli_chr04	28202501	AA	CC	1946807955
SNP_P4_50419_28202522	NC_021163.1	Ca_kabuli_chr04	28202522	CC	TT	1946807957
SNP_P4_50420_28205231	NC_021163.1	Ca_kabuli_chr04	28205231	GG	AA	1946807959
SNP_P4_50422_28206856	NC_021163.1	Ca_kabuli_chr04	28206856	TT	GG	1946807961

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_50424_28206894	NC_021163.1	Ca_kabuli_chr04	28206894	CC	TT	1946807965
SNP_P4_50425_28207375	NC_021163.1	Ca_kabuli_chr04	28207375	CC	TT	1946807967
SNP_P4_50426_28208226	NC_021163.1	Ca_kabuli_chr04	28208226	AA	GG	1946807969
SNP_P4_50427_28208299	NC_021163.1	Ca_kabuli_chr04	28208299	GG	AA	1946807971
SNP_P4_50428_28208313	NC_021163.1	Ca_kabuli_chr04	28208313	AA	GG	1946807973
SNP_P4_50431_28209975	NC_021163.1	Ca_kabuli_chr04	28209975	AA	TT	1946807976
SNP_P4_50432_28213311	NC_021163.1	Ca_kabuli_chr04	28213311	AA	GG	1946807978
SNP_P4_50433_28213316	NC_021163.1	Ca_kabuli_chr04	28213316	CC	TT	1946807980
SNP_P4_50435_28213634	NC_021163.1	Ca_kabuli_chr04	28213634	GG	AA	1946807982
SNP_P4_50436_28213858	NC_021163.1	Ca_kabuli_chr04	28213858	CC	TT	1946807984
SNP_P4_50437_28214236	NC_021163.1	Ca_kabuli_chr04	28214236	TT	CC	1946807986
SNP_P4_50438_28214310	NC_021163.1	Ca_kabuli_chr04	28214310	TT	CC	1946807988
SNP_P4_50439_28214327	NC_021163.1	Ca_kabuli_chr04	28214327	CC	TT	1946807990
SNP_P4_50441_28225466	NC_021163.1	Ca_kabuli_chr04	28225466	AA	GG	1946807993
SNP_P4_50442_28225483	NC_021163.1	Ca_kabuli_chr04	28225483	GG	AA	1946807995
SNP_P4_50443_28225702	NC_021163.1	Ca_kabuli_chr04	28225702	TT	CC	1946807998
SNP_P4_50444_28225714	NC_021163.1	Ca_kabuli_chr04	28225714	TT	CC	1946808000
SNP_P4_50445_28226287	NC_021163.1	Ca_kabuli_chr04	28226287	TT	CC	1946808002
SNP_P4_50446_28232525	NC_021163.1	Ca_kabuli_chr04	28232525	CC	TT	1946808004
SNP_P4_50447_28232709	NC_021163.1	Ca_kabuli_chr04	28232709	AA	GG	1946808006
SNP_P4_50448_28232718	NC_021163.1	Ca_kabuli_chr04	28232718	AA	TT	1946808008
SNP_P4_50449_28234429	NC_021163.1	Ca_kabuli_chr04	28234429	TT	CC	1946808010
SNP_P4_50451_28234757	NC_021163.1	Ca_kabuli_chr04	28234757	CC	AA	1946808012
SNP_P4_50452_28234778	NC_021163.1	Ca_kabuli_chr04	28234778	GG	TT	1946808014
SNP_P4_50453_28234794	NC_021163.1	Ca_kabuli_chr04	28234794	GG	AA	1946808016
SNP_P4_50454_28234809	NC_021163.1	Ca_kabuli_chr04	28234809	TT	AA	1946808018
SNP_P4_50455_28235600	NC_021163.1	Ca_kabuli_chr04	28235600	CC	AA	1946808020
SNP_P4_50456_28235615	NC_021163.1	Ca_kabuli_chr04	28235615	AA	CC	1946808022
SNP_P4_50457_28235651	NC_021163.1	Ca_kabuli_chr04	28235651	GG	AA	1946808024
SNP_P4_50458_28235852	NC_021163.1	Ca_kabuli_chr04	28235852	AA	GG	1946808026
SNP_P4_50459_28235881	NC_021163.1	Ca_kabuli_chr04	28235881	AA	GG	1946808028
SNP_P4_50460_28235891	NC_021163.1	Ca_kabuli_chr04	28235891	AA	TT	1946808030
SNP_P4_50461_28235924	NC_021163.1	Ca_kabuli_chr04	28235924	TT	CC	1946808032
SNP_P4_50462_28236235	NC_021163.1	Ca_kabuli_chr04	28236235	TT	CC	1946808034
SNP_P4_50464_28236776	NC_021163.1	Ca_kabuli_chr04	28236776	GG	CC	1946808037
SNP_P4_50465_28236807	NC_021163.1	Ca_kabuli_chr04	28236807	TT	CC	1946808039
SNP_P4_50466_28236812	NC_021163.1	Ca_kabuli_chr04	28236812	AA	GG	1946808041
SNP_P4_50467_28236845	NC_021163.1	Ca_kabuli_chr04	28236845	AA	TT	1946808043
SNP_P4_50468_28236868	NC_021163.1	Ca_kabuli_chr04	28236868	GG	AA	1946808045
SNP_P4_50469_28236886	NC_021163.1	Ca_kabuli_chr04	28236886	TT	AA	1946808047
SNP_P4_50470_28236928	NC_021163.1	Ca_kabuli_chr04	28236928	GG	AA	1946808050

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_50472_28236953	NC_021163.1	Ca_kabuli_chr04	28236953	GG	AA	1946808054
SNP_P4_50474_28237135	NC_021163.1	Ca_kabuli_chr04	28237135	TT	CC	1946808057
SNP_P4_50475_28237155	NC_021163.1	Ca_kabuli_chr04	28237155	GG	TT	1946808059
SNP_P4_50476_28237170	NC_021163.1	Ca_kabuli_chr04	28237170	TT	AA	1946808061
SNP_P4_50477_28237178	NC_021163.1	Ca_kabuli_chr04	28237178	CC	AA	1946808063
SNP_P4_50478_28237248	NC_021163.1	Ca_kabuli_chr04	28237248	GG	TT	1946808065
SNP_P4_50479_28237278	NC_021163.1	Ca_kabuli_chr04	28237278	CC	AA	1946808068
SNP_P4_50480_28237345	NC_021163.1	Ca_kabuli_chr04	28237345	CC	AA	1946808070
SNP_P4_50481_28237442	NC_021163.1	Ca_kabuli_chr04	28237442	TT	CC	1946808072
SNP_P4_50482_28237462	NC_021163.1	Ca_kabuli_chr04	28237462	CC	TT	1946808074
SNP_P4_50483_28237705	NC_021163.1	Ca_kabuli_chr04	28237705	CC	TT	1946808076
SNP_P4_50484_28237718	NC_021163.1	Ca_kabuli_chr04	28237718	CC	TT	1946808079
SNP_P4_50485_28237730	NC_021163.1	Ca_kabuli_chr04	28237730	AA	GG	1946808081
SNP_P4_50486_28237874	NC_021163.1	Ca_kabuli_chr04	28237874	CC	AA	1946808083
SNP_P4_50488_28237900	NC_021163.1	Ca_kabuli_chr04	28237900	GG	TT	1946808085
SNP_P4_50489_28246771	NC_021163.1	Ca_kabuli_chr04	28246771	AA	GG	1946808087
SNP_P4_50490_28246772	NC_021163.1	Ca_kabuli_chr04	28246772	TT	GG	1946808090
SNP_P4_50492_28263977	NC_021163.1	Ca_kabuli_chr04	28263977	GG	AA	1946808092
SNP_P4_50493_28265157	NC_021163.1	Ca_kabuli_chr04	28265157	GG	AA	1946808094
SNP_P4_50494_28266562	NC_021163.1	Ca_kabuli_chr04	28266562	TT	AA	1946808096
SNP_P4_50495_28266743	NC_021163.1	Ca_kabuli_chr04	28266743	TT	AA	1946808098
SNP_P4_50496_28266960	NC_021163.1	Ca_kabuli_chr04	28266960	AA	GG	1946808101
SNP_P4_50497_28267062	NC_021163.1	Ca_kabuli_chr04	28267062	AA	TT	1946808103
SNP_P4_50498_28267527	NC_021163.1	Ca_kabuli_chr04	28267527	CC	TT	1946808105
SNP_P4_50499_28267932	NC_021163.1	Ca_kabuli_chr04	28267932	CC	TT	1946808107
SNP_P4_50501_28277060	NC_021163.1	Ca_kabuli_chr04	28277060	AA	GG	1946808110
SNP_P4_50502_28277061	NC_021163.1	Ca_kabuli_chr04	28277061	TT	AA	1946808112
SNP_P4_50504_28277398	NC_021163.1	Ca_kabuli_chr04	28277398	TT	AA	1946808114
SNP_P4_50506_28277621	NC_021163.1	Ca_kabuli_chr04	28277621	AA	GG	1946808116
SNP_P4_50507_28277674	NC_021163.1	Ca_kabuli_chr04	28277674	AA	GG	1946808118
SNP_P4_50508_28277758	NC_021163.1	Ca_kabuli_chr04	28277758	CC	TT	1946808121
SNP_P4_50510_28279309	NC_021163.1	Ca_kabuli_chr04	28279309	TT	GG	1946808123
SNP_P4_50511_28279753	NC_021163.1	Ca_kabuli_chr04	28279753	CC	TT	1946808126
SNP_P4_50512_28281363	NC_021163.1	Ca_kabuli_chr04	28281363	AA	GG	1946808128
SNP_P4_50513_28281392	NC_021163.1	Ca_kabuli_chr04	28281392	CC	GG	1946808130
SNP_P4_50514_28281396	NC_021163.1	Ca_kabuli_chr04	28281396	CC	TT	1946808132
SNP_P4_50515_28281403	NC_021163.1	Ca_kabuli_chr04	28281403	TT	CC	1946808135
SNP_P4_50520_28282508	NC_021163.1	Ca_kabuli_chr04	28282508	AA	GG	1946808137
SNP_P4_50521_28282546	NC_021163.1	Ca_kabuli_chr04	28282546	CC	TT	1946808139
SNP_P4_50522_28286049	NC_021163.1	Ca_kabuli_chr04	28286049	CC	TT	1946808141
SNP_P4_50523_28286128	NC_021163.1	Ca_kabuli_chr04	28286128	GG	AA	1946808143

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_50525_28287362	NC_021163.1	Ca_kabuli_chr04	28287362	GG	AA	1946808148
SNP_P4_50526_28287937	NC_021163.1	Ca_kabuli_chr04	28287937	TT	GG	1946808150
SNP_P4_50527_28288201	NC_021163.1	Ca_kabuli_chr04	28288201	TT	CC	1946808152
SNP_P4_50528_28290117	NC_021163.1	Ca_kabuli_chr04	28290117	AA	GG	1946808154
SNP_P4_50532_28295149	NC_021163.1	Ca_kabuli_chr04	28295149	GG	AA	1946808156
SNP_P4_50534_28296624	NC_021163.1	Ca_kabuli_chr04	28296624	TT	CC	1946808158
SNP_P4_50535_28297906	NC_021163.1	Ca_kabuli_chr04	28297906	CC	AA	1946808160
SNP_P4_50536_28297909	NC_021163.1	Ca_kabuli_chr04	28297909	AA	TT	1946808161
SNP_P4_50537_28298534	NC_021163.1	Ca_kabuli_chr04	28298534	AA	TT	1946808163
SNP_P4_50538_28298546	NC_021163.1	Ca_kabuli_chr04	28298546	AA	TT	1946808165
SNP_P4_50539_28300544	NC_021163.1	Ca_kabuli_chr04	28300544	AA	CC	1946808168
SNP_P4_50540_28301096	NC_021163.1	Ca_kabuli_chr04	28301096	GG	AA	1946808170
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SNP_P4_50542_28302441	NC_021163.1	Ca_kabuli_chr04	28302441	CC	TT	1946808174
SNP_P4_50546_28314951	NC_021163.1	Ca_kabuli_chr04	28314951	AA	TT	1946808176
SNP_P4_50547_28315035	NC_021163.1	Ca_kabuli_chr04	28315035	AA	GG	1946808178
SNP_P4_50548_28315240	NC_021163.1	Ca_kabuli_chr04	28315240	AA	GG	1946808180
SNP_P4_50549_28315574	NC_021163.1	Ca_kabuli_chr04	28315574	TT	GG	1946808182
SNP_P4_50550_28316972	NC_021163.1	Ca_kabuli_chr04	28316972	GG	CC	1946808184
SNP_P4_50551_28317032	NC_021163.1	Ca_kabuli_chr04	28317032	TT	CC	1946808186
SNP_P4_50552_28318587	NC_021163.1	Ca_kabuli_chr04	28318587	CC	GG	1946808188
SNP_P4_50553_28319202	NC_021163.1	Ca_kabuli_chr04	28319202	AA	TT	1946808190
SNP_P4_50554_28319230	NC_021163.1	Ca_kabuli_chr04	28319230	GG	AA	1946808192
SNP_P4_50558_28322647	NC_021163.1	Ca_kabuli_chr04	28322647	TT	CC	1946808194
SNP_P4_50559_28322708	NC_021163.1	Ca_kabuli_chr04	28322708	CC	TT	1946808196
SNP_P4_50560_28322733	NC_021163.1	Ca_kabuli_chr04	28322733	CC	TT	1946808198
SNP_P4_50561_28323365	NC_021163.1	Ca_kabuli_chr04	28323365	GG	AA	1946808200
SNP_P4_50562_28323374	NC_021163.1	Ca_kabuli_chr04	28323374	CC	TT	1946808202
SNP_P4_50564_28331527	NC_021163.1	Ca_kabuli_chr04	28331527	CC	TT	1946808205
SNP_P4_50565_28331530	NC_021163.1	Ca_kabuli_chr04	28331530	GG	AA	1946808207
SNP_P4_50566_28331962	NC_021163.1	Ca_kabuli_chr04	28331962	AA	GG	1946808209
SNP_P4_50567_28332144	NC_021163.1	Ca_kabuli_chr04	28332144	TT	GG	1946808211
SNP_P4_50568_28332947	NC_021163.1	Ca_kabuli_chr04	28332947	CC	AA	1946808213
SNP_P4_50569_28333269	NC_021163.1	Ca_kabuli_chr04	28333269	CC	TT	1946808215
SNP_P4_50571_28334415	NC_021163.1	Ca_kabuli_chr04	28334415	TT	CC	1946808217
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SNP_P4_50574_28337359	NC_021163.1	Ca_kabuli_chr04	28337359	TT	CC	1946808221
SNP_P4_50575_28337372	NC_021163.1	Ca_kabuli_chr04	28337372	CC	TT	1946808223
SNP_P4_50576_28337637	NC_021163.1	Ca_kabuli_chr04	28337637	AA	CC	1946808225
SNP_P4_50577_28337667	NC_021163.1	Ca_kabuli_chr04	28337667	AA	GG	1946808227
SNP_P4_50578_28337997	NC_021163.1	Ca_kabuli_chr04	28337997	TT	GG	1946808229

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_50582_28338677	NC_021163.1	Ca_kabuli_chr04	28338677	CC	TT	1946808236
SNP_P4_50585_28338968	NC_021163.1	Ca_kabuli_chr04	28338968	AA	GG	1946808239
SNP_P4_50586_28339392	NC_021163.1	Ca_kabuli_chr04	28339392	AA	TT	1946808241
SNP_P4_50587_28339779	NC_021163.1	Ca_kabuli_chr04	28339779	GG	AA	1946808243
SNP_P4_50588_28339959	NC_021163.1	Ca_kabuli_chr04	28339959	AA	TT	1946808245
SNP_P4_50589_28340316	NC_021163.1	Ca_kabuli_chr04	28340316	CC	TT	1946808247
SNP_P4_50590_28340335	NC_021163.1	Ca_kabuli_chr04	28340335	GG	AA	1946808249
SNP_P4_50591_28340339	NC_021163.1	Ca_kabuli_chr04	28340339	GG	AA	1946808251
SNP_P4_50592_28342169	NC_021163.1	Ca_kabuli_chr04	28342169	TT	CC	1946808253
SNP_P4_50593_28342954	NC_021163.1	Ca_kabuli_chr04	28342954	GG	AA	1946808255
SNP_P4_50594_28344282	NC_021163.1	Ca_kabuli_chr04	28344282	GG	TT	1946808257
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SNP_P4_50599_28345518	NC_021163.1	Ca_kabuli_chr04	28345518	GG	TT	1946808267
SNP_P4_50600_28345600	NC_021163.1	Ca_kabuli_chr04	28345600	TT	CC	1946808270
SNP_P4_50601_28345615	NC_021163.1	Ca_kabuli_chr04	28345615	AA	GG	1946808272
SNP_P4_50603_28346711	NC_021163.1	Ca_kabuli_chr04	28346711	AA	TT	1946808274
SNP_P4_50604_28346921	NC_021163.1	Ca_kabuli_chr04	28346921	TT	AA	1946808276
SNP_P4_50605_28346962	NC_021163.1	Ca_kabuli_chr04	28346962	GG	AA	1946808278
SNP_P4_50606_28346971	NC_021163.1	Ca_kabuli_chr04	28346971	TT	GG	1946808280
SNP_P4_50607_28347164	NC_021163.1	Ca_kabuli_chr04	28347164	CC	GG	1946808282
SNP_P4_50608_28347356	NC_021163.1	Ca_kabuli_chr04	28347356	TT	CC	1946808284
SNP_P4_50609_28348651	NC_021163.1	Ca_kabuli_chr04	28348651	TT	GG	1946808286
SNP_P4_50610_28348658	NC_021163.1	Ca_kabuli_chr04	28348658	CC	TT	1946808288
SNP_P4_50611_28348993	NC_021163.1	Ca_kabuli_chr04	28348993	GG	CC	1946808290
SNP_P4_50612_28349088	NC_021163.1	Ca_kabuli_chr04	28349088	TT	CC	1946808292
SNP_P4_50613_28349094	NC_021163.1	Ca_kabuli_chr04	28349094	CC	TT	1946808294
SNP_P4_50614_28349110	NC_021163.1	Ca_kabuli_chr04	28349110	GG	AA	1946808296
SNP_P4_50615_28349118	NC_021163.1	Ca_kabuli_chr04	28349118	GG	AA	1946808297
SNP_P4_50616_28349126	NC_021163.1	Ca_kabuli_chr04	28349126	AA	CC	1946808298
SNP_P4_50618_28349180	NC_021163.1	Ca_kabuli_chr04	28349180	CC	AA	1946808299
SNP_P4_50619_28349385	NC_021163.1	Ca_kabuli_chr04	28349385	CC	GG	1946808300
SNP_P4_50620_28349420	NC_021163.1	Ca_kabuli_chr04	28349420	CC	TT	1946808301
SNP_P4_50621_28349431	NC_021163.1	Ca_kabuli_chr04	28349431	GG	AA	1946808302
SNP_P4_50622_28349482	NC_021163.1	Ca_kabuli_chr04	28349482	CC	AA	1946808304
SNP_P4_50623_28349499	NC_021163.1	Ca_kabuli_chr04	28349499	AA	CC	1946808306
SNP_P4_50624_28351261	NC_021163.1	Ca_kabuli_chr04	28351261	TT	GG	1946808308
SNP_P4_50625_28351702	NC_021163.1	Ca_kabuli_chr04	28351702	AA	GG	1946808310

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_50628_28353224	NC_021163.1	Ca_kabuli_chr04	28353224	GG	AA	1946808314
SNP_P4_50629_28353717	NC_021163.1	Ca_kabuli_chr04	28353717	CC	TT	1946808316
SNP_P4_50630_28353718	NC_021163.1	Ca_kabuli_chr04	28353718	CC	TT	1946808318
SNP_P4_50631_28354336	NC_021163.1	Ca_kabuli_chr04	28354336	TT	CC	1946808321
SNP_P4_50632_28354345	NC_021163.1	Ca_kabuli_chr04	28354345	TT	CC	1946808323
SNP_P4_50633_28354387	NC_021163.1	Ca_kabuli_chr04	28354387	CC	AA	1946808325
SNP_P4_50634_28356042	NC_021163.1	Ca_kabuli_chr04	28356042	GG	AA	1946808327
SNP_P4_50635_28356429	NC_021163.1	Ca_kabuli_chr04	28356429	TT	CC	1946808329
SNP_P4_50636_28356832	NC_021163.1	Ca_kabuli_chr04	28356832	GG	AA	1946808331
SNP_P4_50637_28356833	NC_021163.1	Ca_kabuli_chr04	28356833	GG	TT	1946808333
SNP_P4_50638_28357981	NC_021163.1	Ca_kabuli_chr04	28357981	TT	CC	1946808335
SNP_P4_50640_28358422	NC_021163.1	Ca_kabuli_chr04	28358422	CC	GG	1946808337
SNP_P4_50641_28358587	NC_021163.1	Ca_kabuli_chr04	28358587	AA	TT	1946808339
SNP_P4_50642_28359414	NC_021163.1	Ca_kabuli_chr04	28359414	AA	TT	1946808341
SNP_P4_50643_28359538	NC_021163.1	Ca_kabuli_chr04	28359538	TT	CC	1946808343
SNP_P4_50644_28359765	NC_021163.1	Ca_kabuli_chr04	28359765	TT	AA	1946808345
SNP_P4_50645_28359801	NC_021163.1	Ca_kabuli_chr04	28359801	TT	AA	1946808347
SNP_P4_50646_28360293	NC_021163.1	Ca_kabuli_chr04	28360293	AA	GG	1946808350
SNP_P4_50647_28360363	NC_021163.1	Ca_kabuli_chr04	28360363	TT	CC	1946808352
SNP_P4_50648_28360640	NC_021163.1	Ca_kabuli_chr04	28360640	CC	TT	1946808354
SNP_P4_50649_28363261	NC_021163.1	Ca_kabuli_chr04	28363261	TT	CC	1946808356
SNP_P4_50650_28363324	NC_021163.1	Ca_kabuli_chr04	28363324	AA	GG	1946808358
SNP_P4_50651_28363333	NC_021163.1	Ca_kabuli_chr04	28363333	TT	CC	1946808360
SNP_P4_50652_28363923	NC_021163.1	Ca_kabuli_chr04	28363923	AA	TT	1946808362
SNP_P4_50653_28363945	NC_021163.1	Ca_kabuli_chr04	28363945	CC	GG	1946808365
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SNP_P4_50655_28363992	NC_021163.1	Ca_kabuli_chr04	28363992	TT	CC	1946808369
SNP_P4_50656_28364040	NC_021163.1	Ca_kabuli_chr04	28364040	GG	AA	1946808371
SNP_P4_50657_28364236	NC_021163.1	Ca_kabuli_chr04	28364236	TT	CC	1946808373
SNP_P4_50658_28364317	NC_021163.1	Ca_kabuli_chr04	28364317	GG	AA	1946808376
SNP_P4_50659_28364466	NC_021163.1	Ca_kabuli_chr04	28364466	CC	AA	1946808378
SNP_P4_50661_28368571	NC_021163.1	Ca_kabuli_chr04	28368571	CC	TT	1946808380
SNP_P4_50662_28369414	NC_021163.1	Ca_kabuli_chr04	28369414	CC	TT	1946808382
SNP_P4_50663_28369616	NC_021163.1	Ca_kabuli_chr04	28369616	CC	TT	1946808385
SNP_P4_50664_28369638	NC_021163.1	Ca_kabuli_chr04	28369638	AA	CC	1946808387
SNP_P4_50665_28369747	NC_021163.1	Ca_kabuli_chr04	28369747	CC	TT	1946808389
SNP_P4_50666_28371020	NC_021163.1	Ca_kabuli_chr04	28371020	GG	AA	1946808391
SNP_P4_50667_28371687	NC_021163.1	Ca_kabuli_chr04	28371687	AA	TT	1946808393
SNP_P4_50668_28373313	NC_021163.1	Ca_kabuli_chr04	28373313	TT	GG	1946808395
SNP_P4_50669_28373526	NC_021163.1	Ca_kabuli_chr04	28373526	GG	AA	1946808397
SNP_P4_50670_28373591	NC_021163.1	Ca_kabuli_chr04	28373591	TT	AA	1946808399

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_50672_28373696	NC_021163.1	Ca_kabuli_chr04	28373696	CC	TT	1946808404
SNP_P4_50673_28374033	NC_021163.1	Ca_kabuli_chr04	28374033	GG	CC	1946808406
SNP_P4_50674_28374052	NC_021163.1	Ca_kabuli_chr04	28374052	GG	AA	1946808408
SNP_P4_50675_28375003	NC_021163.1	Ca_kabuli_chr04	28375003	GG	AA	1946808410
SNP_P4_50676_28375006	NC_021163.1	Ca_kabuli_chr04	28375006	CC	GG	1946808412
SNP_P4_50677_28377294	NC_021163.1	Ca_kabuli_chr04	28377294	CC	TT	1946808414
SNP_P4_50678_28377498	NC_021163.1	Ca_kabuli_chr04	28377498	TT	CC	1946808416
SNP_P4_50679_28377513	NC_021163.1	Ca_kabuli_chr04	28377513	CC	TT	1946808418
SNP_P4_50680_28377785	NC_021163.1	Ca_kabuli_chr04	28377785	AA	TT	1946808420
SNP_P4_50681_28378478	NC_021163.1	Ca_kabuli_chr04	28378478	AA	GG	1946808422
SNP_P4_50682_28378790	NC_021163.1	Ca_kabuli_chr04	28378790	AA	GG	1946808424
SNP_P4_50684_28378914	NC_021163.1	Ca_kabuli_chr04	28378914	GG	TT	1946808426
SNP_P4_50685_28379779	NC_021163.1	Ca_kabuli_chr04	28379779	TT	CC	1946808428
SNP_P4_50686_28380592	NC_021163.1	Ca_kabuli_chr04	28380592	CC	TT	1946808430
SNP_P4_50687_28380769	NC_021163.1	Ca_kabuli_chr04	28380769	GG	TT	1946808432
SNP_P4_50688_28383114	NC_021163.1	Ca_kabuli_chr04	28383114	AA	GG	1946808434
SNP_P4_50689_28383138	NC_021163.1	Ca_kabuli_chr04	28383138	AA	GG	1946808436
SNP_P4_50690_28383749	NC_021163.1	Ca_kabuli_chr04	28383749	TT	CC	1946808438
SNP_P4_50691_28383773	NC_021163.1	Ca_kabuli_chr04	28383773	TT	CC	1946808441
SNP_P4_50692_28383815	NC_021163.1	Ca_kabuli_chr04	28383815	CC	GG	1946808443
SNP_P4_50693_28383818	NC_021163.1	Ca_kabuli_chr04	28383818	TT	AA	1946808445
SNP_P4_50694_28384849	NC_021163.1	Ca_kabuli_chr04	28384849	AA	GG	1946808447
SNP_P4_50695_28387435	NC_021163.1	Ca_kabuli_chr04	28387435	AA	GG	1946808449
SNP_P4_50696_28388158	NC_021163.1	Ca_kabuli_chr04	28388158	TT	CC	1946808451
SNP_P4_50697_28389668	NC_021163.1	Ca_kabuli_chr04	28389668	TT	AA	1946808453
SNP_P4_50698_28389956	NC_021163.1	Ca_kabuli_chr04	28389956	AA	CC	1946808455
SNP_P4_50699_28389957	NC_021163.1	Ca_kabuli_chr04	28389957	AA	TT	1946808457
SNP_P4_50700_28389958	NC_021163.1	Ca_kabuli_chr04	28389958	AA	TT	1946808459
SNP_P4_50701_28390017	NC_021163.1	Ca_kabuli_chr04	28390017	TT	CC	1946808461
SNP_P4_50702_28390147	NC_021163.1	Ca_kabuli_chr04	28390147	GG	AA	1946808463
SNP_P4_50703_28390149	NC_021163.1	Ca_kabuli_chr04	28390149	GG	AA	1946808465
SNP_P4_50704_28390163	NC_021163.1	Ca_kabuli_chr04	28390163	GG	AA	1946808467
SNP_P4_50705_28390231	NC_021163.1	Ca_kabuli_chr04	28390231	TT	CC	1946808469
SNP_P4_50706_28390235	NC_021163.1	Ca_kabuli_chr04	28390235	AA	TT	1946808471
SNP_P4_50708_28390285	NC_021163.1	Ca_kabuli_chr04	28390285	TT	CC	1946808473
SNP_P4_50709_28390394	NC_021163.1	Ca_kabuli_chr04	28390394	GG	TT	1946808475
SNP_P4_50710_28390410	NC_021163.1	Ca_kabuli_chr04	28390410	GG	AA	1946808477
SNP_P4_50712_28390674	NC_021163.1	Ca_kabuli_chr04	28390674	GG	AA	1946808479
SNP_P4_50713_28390675	NC_021163.1	Ca_kabuli_chr04	28390675	GG	AA	1946808481
SNP_P4_50714_28390682	NC_021163.1	Ca_kabuli_chr04	28390682	CC	TT	1946808483
SNP_P4_50715_28390697	NC_021163.1	Ca_kabuli_chr04	28390697	CC	AA	1946808485

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_50718_28402942	NC_021163.1	Ca_kabuli_chr04	28402942	GG	AA	1946808489
SNP_P4_50720_28403142	NC_021163.1	Ca_kabuli_chr04	28403142	AA	GG	1946808491
SNP_P4_50721_28403197	NC_021163.1	Ca_kabuli_chr04	28403197	CC	TT	1946808493
SNP_P4_50722_28403227	NC_021163.1	Ca_kabuli_chr04	28403227	CC	TT	1946808496
SNP_P4_50723_28403280	NC_021163.1	Ca_kabuli_chr04	28403280	CC	TT	1946808498
SNP_P4_50724_28404826	NC_021163.1	Ca_kabuli_chr04	28404826	AA	GG	1946808500
SNP_P4_50725_28406987	NC_021163.1	Ca_kabuli_chr04	28406987	GG	TT	1946808502
SNP_P4_50726_28407190	NC_021163.1	Ca_kabuli_chr04	28407190	CC	AA	1946808504
SNP_P4_50727_28407238	NC_021163.1	Ca_kabuli_chr04	28407238	CC	TT	1946808506
SNP_P4_50728_28407296	NC_021163.1	Ca_kabuli_chr04	28407296	TT	GG	1946808508
SNP_P4_50729_28407560	NC_021163.1	Ca_kabuli_chr04	28407560	AA	CC	1946808510
SNP_P4_50732_28409003	NC_021163.1	Ca_kabuli_chr04	28409003	TT	CC	1946808513
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SNP_P4_50735_28409888	NC_021163.1	Ca_kabuli_chr04	28409888	GG	AA	1946808519
SNP_P4_50736_28409889	NC_021163.1	Ca_kabuli_chr04	28409889	CC	TT	1946808521
SNP_P4_50737_28410000	NC_021163.1	Ca_kabuli_chr04	28410000	GG	TT	1946808523
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SNP_P4_50739_28410086	NC_021163.1	Ca_kabuli_chr04	28410086	CC	AA	1946808527
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SNP_P4_50741_28410209	NC_021163.1	Ca_kabuli_chr04	28410209	TT	AA	1946808531
SNP_P4_50743_28410349	NC_021163.1	Ca_kabuli_chr04	28410349	AA	TT	1946808533
SNP_P4_50744_28410359	NC_021163.1	Ca_kabuli_chr04	28410359	AA	GG	1946808535
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SNP_P4_50747_28412556	NC_021163.1	Ca_kabuli_chr04	28412556	AA	CC	1946808541
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SNP_P4_50749_28413212	NC_021163.1	Ca_kabuli_chr04	28413212	GG	AA	1946808546
SNP_P4_50750_28413277	NC_021163.1	Ca_kabuli_chr04	28413277	AA	TT	1946808548
SNP_P4_50751_28413297	NC_021163.1	Ca_kabuli_chr04	28413297	TT	AA	1946808550
SNP_P4_50752_28413617	NC_021163.1	Ca_kabuli_chr04	28413617	AA	CC	1946808552
SNP_P4_50753_28413659	NC_021163.1	Ca_kabuli_chr04	28413659	GG	AA	1946808554
SNP_P4_50754_28413671	NC_021163.1	Ca_kabuli_chr04	28413671	CC	TT	1946808556
SNP_P4_50755_28413675	NC_021163.1	Ca_kabuli_chr04	28413675	AA	GG	1946808558
SNP_P4_50756_28414260	NC_021163.1	Ca_kabuli_chr04	28414260	CC	GG	1946808560
SNP_P4_50757_28414277	NC_021163.1	Ca_kabuli_chr04	28414277	AA	GG	1946808562
SNP_P4_50758_28414785	NC_021163.1	Ca_kabuli_chr04	28414785	CC	GG	1946808564
SNP_P4_50760_28414949	NC_021163.1	Ca_kabuli_chr04	28414949	AA	GG	1946808566
SNP_P4_50761_28414950	NC_021163.1	Ca_kabuli_chr04	28414950	AA	CC	1946808568
SNP_P4_50762_28415000	NC_021163.1	Ca_kabuli_chr04	28415000	TT	GG	1946808570
SNP_P4_50763_28415117	NC_021163.1	Ca_kabuli_chr04	28415117	TT	CC	1946808572

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_50766_28415190	NC_021163.1	Ca_kabuli_chr04	28415190	CC	TT	1946808578
SNP_P4_50767_28415392	NC_021163.1	Ca_kabuli_chr04	28415392	TT	CC	1946808580
SNP_P4_50768_28415403	NC_021163.1	Ca_kabuli_chr04	28415403	GG	AA	1946808582
SNP_P4_50769_28415466	NC_021163.1	Ca_kabuli_chr04	28415466	CC	TT	1946808584
SNP_P4_50771_28417868	NC_021163.1	Ca_kabuli_chr04	28417868	AA	GG	1946808586
SNP_P4_50772_28418069	NC_021163.1	Ca_kabuli_chr04	28418069	GG	AA	1946808588
SNP_P4_50773_28418081	NC_021163.1	Ca_kabuli_chr04	28418081	CC	TT	1946808590
SNP_P4_50774_28418090	NC_021163.1	Ca_kabuli_chr04	28418090	TT	CC	1946808592
SNP_P4_50775_28418142	NC_021163.1	Ca_kabuli_chr04	28418142	CC	TT	1946808594
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SNP_P4_50779_28419019	NC_021163.1	Ca_kabuli_chr04	28419019	CC	GG	1946808603
SNP_P4_50781_28422077	NC_021163.1	Ca_kabuli_chr04	28422077	AA	GG	1946808605
SNP_P4_50783_28422649	NC_021163.1	Ca_kabuli_chr04	28422649	TT	GG	1946808607
SNP_P4_50784_28422759	NC_021163.1	Ca_kabuli_chr04	28422759	GG	TT	1946808609
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SNP_P4_50786_28428249	NC_021163.1	Ca_kabuli_chr04	28428249	GG	AA	1946808613
SNP_P4_50787_28431706	NC_021163.1	Ca_kabuli_chr04	28431706	AA	GG	1946808615
SNP_P4_50788_28439855	NC_021163.1	Ca_kabuli_chr04	28439855	TT	GG	1946808617
SNP_P4_50789_28440015	NC_021163.1	Ca_kabuli_chr04	28440015	TT	GG	1946808619
SNP_P4_50790_28440023	NC_021163.1	Ca_kabuli_chr04	28440023	AA	GG	1946808621
SNP_P4_50791_28442231	NC_021163.1	Ca_kabuli_chr04	28442231	TT	CC	1946808623
SNP_P4_50792_28442309	NC_021163.1	Ca_kabuli_chr04	28442309	CC	TT	1946808625
SNP_P4_50793_28443433	NC_021163.1	Ca_kabuli_chr04	28443433	TT	AA	1946808627
SNP_P4_50794_28443434	NC_021163.1	Ca_kabuli_chr04	28443434	AA	TT	1946808629
SNP_P4_50795_28444180	NC_021163.1	Ca_kabuli_chr04	28444180	CC	TT	1946808631
SNP_P4_50796_28444688	NC_021163.1	Ca_kabuli_chr04	28444688	AA	CC	1946808633
SNP_P4_50797_28447896	NC_021163.1	Ca_kabuli_chr04	28447896	CC	AA	1946808635
SNP_P4_50798_28451314	NC_021163.1	Ca_kabuli_chr04	28451314	CC	AA	1946808637
SNP_P4_50799_28451743	NC_021163.1	Ca_kabuli_chr04	28451743	TT	CC	1946808640
SNP_P4_50800_28451820	NC_021163.1	Ca_kabuli_chr04	28451820	CC	TT	1946808642
SNP_P4_50801_28451839	NC_021163.1	Ca_kabuli_chr04	28451839	TT	AA	1946808644
SNP_P4_50802_28452117	NC_021163.1	Ca_kabuli_chr04	28452117	GG	AA	1946808646
SNP_P4_50803_28452892	NC_021163.1	Ca_kabuli_chr04	28452892	TT	CC	1946808648
SNP_P4_50804_28452927	NC_021163.1	Ca_kabuli_chr04	28452927	CC	AA	1946808650
SNP_P4_50805_28452948	NC_021163.1	Ca_kabuli_chr04	28452948	TT	CC	1946808652
SNP_P4_50806_28453257	NC_021163.1	Ca_kabuli_chr04	28453257	AA	CC	1946808654
SNP_P4_50807_28453489	NC_021163.1	Ca_kabuli_chr04	28453489	TT	CC	1946808656
SNP_P4_50808_28453757	NC_021163.1	Ca_kabuli_chr04	28453757	GG	AA	1946808658

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_50809_28453811	NC_021163.1	Ca_kabuli_chr04	28453811	GG	AA	1946808660
SNP_P4_50810_28457083	NC_021163.1	Ca_kabuli_chr04	28457083	AA	GG	1946808662
SNP_P4_50811_28457470	NC_021163.1	Ca_kabuli_chr04	28457470	GG	AA	1946808664
SNP_P4_50812_28457478	NC_021163.1	Ca_kabuli_chr04	28457478	CC	AA	1946808666
SNP_P4_50813_28457481	NC_021163.1	Ca_kabuli_chr04	28457481	AA	GG	1946808668
SNP_P4_50814_28457515	NC_021163.1	Ca_kabuli_chr04	28457515	GG	AA	1946808671
SNP_P4_50815_28457524	NC_021163.1	Ca_kabuli_chr04	28457524	GG	TT	1946808673
SNP_P4_50816_28457538	NC_021163.1	Ca_kabuli_chr04	28457538	TT	CC	1946808675
SNP_P4_50817_28457553	NC_021163.1	Ca_kabuli_chr04	28457553	CC	TT	1946808676
SNP_P4_50818_28457554	NC_021163.1	Ca_kabuli_chr04	28457554	AA	GG	1946808678
SNP_P4_50820_28457925	NC_021163.1	Ca_kabuli_chr04	28457925	GG	AA	1946808680
SNP_P4_50821_28458157	NC_021163.1	Ca_kabuli_chr04	28458157	GG	AA	1946808682
SNP_P4_50822_28461619	NC_021163.1	Ca_kabuli_chr04	28461619	TT	CC	1946808684
SNP_P4_50823_28461675	NC_021163.1	Ca_kabuli_chr04	28461675	AA	GG	1946808686
SNP_P4_50824_28461684	NC_021163.1	Ca_kabuli_chr04	28461684	AA	CC	1946808688
SNP_P4_50825_28484288	NC_021163.1	Ca_kabuli_chr04	28484288	CC	AA	1946808690
SNP_P4_50826_28501327	NC_021163.1	Ca_kabuli_chr04	28501327	GG	TT	1946808692
SNP_P4_50828_28504769	NC_021163.1	Ca_kabuli_chr04	28504769	AA	TT	1946808694
SNP_P4_50829_28505701	NC_021163.1	Ca_kabuli_chr04	28505701	TT	CC	1946808696
SNP_P4_50830_28510567	NC_021163.1	Ca_kabuli_chr04	28510567	GG	AA	1946808698
SNP_P4_50831_28511322	NC_021163.1	Ca_kabuli_chr04	28511322	GG	AA	1946808700
SNP_P4_50832_28512601	NC_021163.1	Ca_kabuli_chr04	28512601	GG	AA	1946808702
SNP_P4_50836_28519702	NC_021163.1	Ca_kabuli_chr04	28519702	AA	GG	1946808704
SNP_P4_50839_28525317	NC_021163.1	Ca_kabuli_chr04	28525317	AA	TT	1946808706
SNP_P4_50840_28525892	NC_021163.1	Ca_kabuli_chr04	28525892	AA	GG	1946808708
SNP_P4_50841_28528522	NC_021163.1	Ca_kabuli_chr04	28528522	TT	AA	1946808710
SNP_P4_50842_28531376	NC_021163.1	Ca_kabuli_chr04	28531376	CC	GG	1946808712
SNP_P4_50843_28533437	NC_021163.1	Ca_kabuli_chr04	28533437	GG	AA	1946808714
SNP_P4_50844_28533639	NC_021163.1	Ca_kabuli_chr04	28533639	TT	CC	1946808717
SNP_P4_50845_28535679	NC_021163.1	Ca_kabuli_chr04	28535679	GG	AA	1946808719
SNP_P4_50846_28535830	NC_021163.1	Ca_kabuli_chr04	28535830	GG	AA	1946808721
SNP_P4_50847_28535872	NC_021163.1	Ca_kabuli_chr04	28535872	GG	AA	1946808723
SNP_P4_50848_28536182	NC_021163.1	Ca_kabuli_chr04	28536182	CC	GG	1946808725
SNP_P4_50850_28541053	NC_021163.1	Ca_kabuli_chr04	28541053	TT	CC	1946808726
SNP_P4_50851_28541376	NC_021163.1	Ca_kabuli_chr04	28541376	GG	CC	1946808728
SNP_P4_50853_28542079	NC_021163.1	Ca_kabuli_chr04	28542079	CC	AA	1946808730
SNP_P4_50854_28542290	NC_021163.1	Ca_kabuli_chr04	28542290	AA	GG	1946808733
SNP_P4_50855_28542424	NC_021163.1	Ca_kabuli_chr04	28542424	TT	AA	1946808735
SNP_P4_50856_28542425	NC_021163.1	Ca_kabuli_chr04	28542425	AA	TT	1946808737
SNP_P4_50857_28542872	NC_021163.1	Ca_kabuli_chr04	28542872	GG	AA	1946808739
SNP_P4_50858_28546983	NC_021163.1	Ca_kabuli_chr04	28546983	AA	GG	1946808741
SNP_P4_50859_28549398	NC_021163.1	Ca_kabuli_chr04	28549398	AA	TT	1946808743

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_50861_28555442	NC_021163.1	Ca_kabuli_chr04	28555442	AA	GG	1946808747
SNP_P4_50862_28555798	NC_021163.1	Ca_kabuli_chr04	28555798	AA	GG	1946808749
SNP_P4_50865_28558921	NC_021163.1	Ca_kabuli_chr04	28558921	TT	AA	1946808751
SNP_P4_50867_28559494	NC_021163.1	Ca_kabuli_chr04	28559494	AA	CC	1946808753
SNP_P4_50868_28559791	NC_021163.1	Ca_kabuli_chr04	28559791	TT	AA	1946808755
SNP_P4_50869_28563893	NC_021163.1	Ca_kabuli_chr04	28563893	GG	AA	1946808757
SNP_P4_50870_28564203	NC_021163.1	Ca_kabuli_chr04	28564203	TT	GG	1946808759
SNP_P4_50871_28577393	NC_021163.1	Ca_kabuli_chr04	28577393	CC	AA	1946808761
SNP_P4_50872_28577414	NC_021163.1	Ca_kabuli_chr04	28577414	GG	AA	1946808763
SNP_P4_50874_28581984	NC_021163.1	Ca_kabuli_chr04	28581984	AA	GG	1946808765
SNP_P4_50875_28582111	NC_021163.1	Ca_kabuli_chr04	28582111	CC	TT	1946808767
SNP_P4_50876_28582312	NC_021163.1	Ca_kabuli_chr04	28582312	TT	CC	1946808769
SNP_P4_50877_28582950	NC_021163.1	Ca_kabuli_chr04	28582950	AA	TT	1946808771
SNP_P4_50878_28582952	NC_021163.1	Ca_kabuli_chr04	28582952	GG	AA	1946808774
SNP_P4_50879_28583725	NC_021163.1	Ca_kabuli_chr04	28583725	AA	GG	1946808776
SNP_P4_50881_28583883	NC_021163.1	Ca_kabuli_chr04	28583883	CC	TT	1946808778
SNP_P4_50882_28584103	NC_021163.1	Ca_kabuli_chr04	28584103	GG	TT	1946808780
SNP_P4_50883_28584417	NC_021163.1	Ca_kabuli_chr04	28584417	AA	CC	1946808782
SNP_P4_50884_28584606	NC_021163.1	Ca_kabuli_chr04	28584606	AA	GG	1946808784
SNP_P4_50885_28585200	NC_021163.1	Ca_kabuli_chr04	28585200	TT	CC	1946808786
SNP_P4_50886_28585520	NC_021163.1	Ca_kabuli_chr04	28585520	CC	AA	1946808788
SNP_P4_50887_28585654	NC_021163.1	Ca_kabuli_chr04	28585654	TT	AA	1946808790
SNP_P4_50888_28585731	NC_021163.1	Ca_kabuli_chr04	28585731	AA	GG	1946808791
SNP_P4_50889_28586511	NC_021163.1	Ca_kabuli_chr04	28586511	CC	TT	1946808792
SNP_P4_50891_28587571	NC_021163.1	Ca_kabuli_chr04	28587571	CC	AA	1946808793
SNP_P4_50892_28588161	NC_021163.1	Ca_kabuli_chr04	28588161	GG	AA	1946808795
SNP_P4_50893_28588430	NC_021163.1	Ca_kabuli_chr04	28588430	AA	GG	1946808797
SNP_P4_50894_28591327	NC_021163.1	Ca_kabuli_chr04	28591327	GG	AA	1946808799
SNP_P4_50896_28600438	NC_021163.1	Ca_kabuli_chr04	28600438	GG	TT	1946808801
SNP_P4_50897_28604347	NC_021163.1	Ca_kabuli_chr04	28604347	TT	CC	1946808803
SNP_P4_50898_28604371	NC_021163.1	Ca_kabuli_chr04	28604371	TT	CC	1946808806
SNP_P4_50899_28612496	NC_021163.1	Ca_kabuli_chr04	28612496	TT	AA	1946808808
SNP_P4_50900_28617287	NC_021163.1	Ca_kabuli_chr04	28617287	TT	CC	1946808810
SNP_P4_50901_28619103	NC_021163.1	Ca_kabuli_chr04	28619103	CC	TT	1946808812
SNP_P4_50902_28622013	NC_021163.1	Ca_kabuli_chr04	28622013	CC	AA	1946808814
SNP_P4_50903_28622280	NC_021163.1	Ca_kabuli_chr04	28622280	CC	TT	1946808816
SNP_P4_50904_28622291	NC_021163.1	Ca_kabuli_chr04	28622291	GG	AA	1946808818
SNP_P4_50907_28623364	NC_021163.1	Ca_kabuli_chr04	28623364	CC	TT	1946808820
SNP_P4_50908_28629497	NC_021163.1	Ca_kabuli_chr04	28629497	AA	GG	1946808822
SNP_P4_50909_28630055	NC_021163.1	Ca_kabuli_chr04	28630055	TT	AA	1946808824
SNP_P4_50910_28631070	NC_021163.1	Ca_kabuli_chr04	28631070	AA	GG	1946808826

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_50911_28633469	NC_021163.1	Ca_kabuli_chr04	28633469	GG	AA	1946808828
SNP_P4_50912_28635850	NC_021163.1	Ca_kabuli_chr04	28635850	TT	CC	1946808830
SNP_P4_50913_28637929	NC_021163.1	Ca_kabuli_chr04	28637929	TT	CC	1946808832
SNP_P4_50914_28638280	NC_021163.1	Ca_kabuli_chr04	28638280	GG	AA	1946808834
SNP_P4_50915_28638296	NC_021163.1	Ca_kabuli_chr04	28638296	TT	CC	1946808836
SNP_P4_50916_28638650	NC_021163.1	Ca_kabuli_chr04	28638650	AA	CC	1946808839
SNP_P4_50917_28638740	NC_021163.1	Ca_kabuli_chr04	28638740	CC	TT	1946808841
SNP_P4_50918_28639974	NC_021163.1	Ca_kabuli_chr04	28639974	GG	TT	1946808843
SNP_P4_50919_28640117	NC_021163.1	Ca_kabuli_chr04	28640117	GG	AA	1946808845
SNP_P4_50920_28640316	NC_021163.1	Ca_kabuli_chr04	28640316	TT	AA	1946808847
SNP_P4_50921_28640374	NC_021163.1	Ca_kabuli_chr04	28640374	CC	TT	1946808850
SNP_P4_50922_28640401	NC_021163.1	Ca_kabuli_chr04	28640401	GG	AA	1946808852
SNP_P4_50923_28642096	NC_021163.1	Ca_kabuli_chr04	28642096	CC	TT	1946808854
SNP_P4_50924_28663622	NC_021163.1	Ca_kabuli_chr04	28663622	GG	TT	1946808856
SNP_P4_50925_28663623	NC_021163.1	Ca_kabuli_chr04	28663623	CC	TT	1946808858
SNP_P4_50926_28663633	NC_021163.1	Ca_kabuli_chr04	28663633	AA	TT	1946808860
SNP_P4_50927_28663804	NC_021163.1	Ca_kabuli_chr04	28663804	AA	GG	1946808862
SNP_P4_50928_28663907	NC_021163.1	Ca_kabuli_chr04	28663907	TT	CC	1946808864
SNP_P4_50929_28663976	NC_021163.1	Ca_kabuli_chr04	28663976	GG	AA	1946808867
SNP_P4_50930_28668069	NC_021163.1	Ca_kabuli_chr04	28668069	AA	TT	1946808869
SNP_P4_50931_28668072	NC_021163.1	Ca_kabuli_chr04	28668072	GG	AA	1946808871
SNP_P4_50932_28668148	NC_021163.1	Ca_kabuli_chr04	28668148	CC	GG	1946808873
SNP_P4_50933_28668152	NC_021163.1	Ca_kabuli_chr04	28668152	TT	CC	1946808875
SNP_P4_50934_28668155	NC_021163.1	Ca_kabuli_chr04	28668155	AA	GG	1946808877
SNP_P4_50935_28669450	NC_021163.1	Ca_kabuli_chr04	28669450	CC	AA	1946808880
SNP_P4_50936_28674375	NC_021163.1	Ca_kabuli_chr04	28674375	CC	TT	1946808882
SNP_P4_50937_28674718	NC_021163.1	Ca_kabuli_chr04	28674718	GG	AA	1946808884
SNP_P4_50938_28703148	NC_021163.1	Ca_kabuli_chr04	28703148	TT	GG	1946808886
SNP_P4_50939_28710938	NC_021163.1	Ca_kabuli_chr04	28710938	TT	CC	1946808889
SNP_P4_50940_28714888	NC_021163.1	Ca_kabuli_chr04	28714888	CC	AA	1946808891
SNP_P4_50941_28714936	NC_021163.1	Ca_kabuli_chr04	28714936	AA	GG	1946808893
SNP_P4_50942_28714938	NC_021163.1	Ca_kabuli_chr04	28714938	CC	TT	1946808895
SNP_P4_50943_28714941	NC_021163.1	Ca_kabuli_chr04	28714941	CC	TT	1946808897
SNP_P4_50944_28714950	NC_021163.1	Ca_kabuli_chr04	28714950	CC	TT	1946808899
SNP_P4_50945_28714968	NC_021163.1	Ca_kabuli_chr04	28714968	CC	GG	1946808902
SNP_P4_50946_28714986	NC_021163.1	Ca_kabuli_chr04	28714986	GG	AA	1946808904
SNP_P4_50948_28715024	NC_021163.1	Ca_kabuli_chr04	28715024	GG	AA	1946808906
SNP_P4_50949_28715129	NC_021163.1	Ca_kabuli_chr04	28715129	CC	TT	1946808909
SNP_P4_50951_28715242	NC_021163.1	Ca_kabuli_chr04	28715242	GG	AA	1946808911
SNP_P4_50952_28727151	NC_021163.1	Ca_kabuli_chr04	28727151	TT	AA	1946808913
SNP_P4_50953_28727170	NC_021163.1	Ca_kabuli_chr04	28727170	TT	AA	1946808915
SNP_P4_50954_28755003	NC_021163.1	Ca_kabuli_chr04	28755003	CC	GG	1946808917

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_50956_28777992	NC_021163.1	Ca_kabuli_chr04	28777992	CC	TT	1946808922
SNP_P4_50957_28778012	NC_021163.1	Ca_kabuli_chr04	28778012	TT	GG	1946808924
SNP_P4_50958_28780076	NC_021163.1	Ca_kabuli_chr04	28780076	CC	TT	1946808926
SNP_P4_50960_28783252	NC_021163.1	Ca_kabuli_chr04	28783252	CC	TT	1946808928
SNP_P4_50961_28783771	NC_021163.1	Ca_kabuli_chr04	28783771	GG	AA	1946808931
SNP_P4_50962_28783956	NC_021163.1	Ca_kabuli_chr04	28783956	CC	AA	1946808933
SNP_P4_50963_28783970	NC_021163.1	Ca_kabuli_chr04	28783970	TT	CC	1946808935
SNP_P4_50964_28784308	NC_021163.1	Ca_kabuli_chr04	28784308	CC	TT	1946808937
SNP_P4_50965_28786215	NC_021163.1	Ca_kabuli_chr04	28786215	CC	TT	1946808939
SNP_P4_50966_28786275	NC_021163.1	Ca_kabuli_chr04	28786275	AA	CC	1946808941
SNP_P4_50968_28792283	NC_021163.1	Ca_kabuli_chr04	28792283	TT	GG	1946808943
SNP_P4_50970_28793706	NC_021163.1	Ca_kabuli_chr04	28793706	AA	GG	1946808945
SNP_P4_50971_28793823	NC_021163.1	Ca_kabuli_chr04	28793823	CC	AA	1946808947
SNP_P4_50972_28794130	NC_021163.1	Ca_kabuli_chr04	28794130	GG	TT	1946808949
SNP_P4_50973_28797152	NC_021163.1	Ca_kabuli_chr04	28797152	AA	GG	1946808951
SNP_P4_50975_28799352	NC_021163.1	Ca_kabuli_chr04	28799352	TT	AA	1946808954
SNP_P4_50976_28799368	NC_021163.1	Ca_kabuli_chr04	28799368	GG	AA	1946808957
SNP_P4_50977_28799646	NC_021163.1	Ca_kabuli_chr04	28799646	GG	TT	1946808959
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SNP_P4_50980_28800831	NC_021163.1	Ca_kabuli_chr04	28800831	TT	AA	1946808965
SNP_P4_50981_28800834	NC_021163.1	Ca_kabuli_chr04	28800834	GG	TT	1946808968
SNP_P4_50982_28800901	NC_021163.1	Ca_kabuli_chr04	28800901	CC	TT	1946808970
SNP_P4_50984_28801600	NC_021163.1	Ca_kabuli_chr04	28801600	GG	AA	1946808972
SNP_P4_50985_28801643	NC_021163.1	Ca_kabuli_chr04	28801643	GG	CC	1946808974
SNP_P4_50986_28801674	NC_021163.1	Ca_kabuli_chr04	28801674	CC	TT	1946808976
SNP_P4_50987_28801813	NC_021163.1	Ca_kabuli_chr04	28801813	CC	TT	1946808978
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SNP_P4_50990_28802122	NC_021163.1	Ca_kabuli_chr04	28802122	CC	TT	1946808983
SNP_P4_50991_28802133	NC_021163.1	Ca_kabuli_chr04	28802133	TT	GG	1946808985
SNP_P4_50992_28802148	NC_021163.1	Ca_kabuli_chr04	28802148	AA	GG	1946808987
SNP_P4_50993_28802213	NC_021163.1	Ca_kabuli_chr04	28802213	TT	GG	1946808989
SNP_P4_50994_28802226	NC_021163.1	Ca_kabuli_chr04	28802226	GG	AA	1946808991
SNP_P4_50995_28802255	NC_021163.1	Ca_kabuli_chr04	28802255	TT	CC	1946808994
SNP_P4_50997_28802405	NC_021163.1	Ca_kabuli_chr04	28802405	TT	CC	1946808996
SNP_P4_50998_28802472	NC_021163.1	Ca_kabuli_chr04	28802472	AA	TT	1946808998
SNP_P4_50999_28802661	NC_021163.1	Ca_kabuli_chr04	28802661	GG	AA	1946809000
SNP_P4_51000_28802700	NC_021163.1	Ca_kabuli_chr04	28802700	GG	AA	1946809002
SNP_P4_51001_28802717	NC_021163.1	Ca_kabuli_chr04	28802717	CC	TT	1946809004
SNP_P4_51002_28802726	NC_021163.1	Ca_kabuli_chr04	28802726	CC	GG	1946809006
SNP_P4_51003_28802729	NC_021163.1	Ca_kabuli_chr04	28802729	CC	GG	1946809009

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_51005_28803881	NC_021163.1	Ca_kabuli_chr04	28803881	GG	AA	1946809013
SNP_P4_51006_28806639	NC_021163.1	Ca_kabuli_chr04	28806639	CC	TT	1946809015
SNP_P4_51007_28806709	NC_021163.1	Ca_kabuli_chr04	28806709	CC	TT	1946809017
SNP_P4_51008_28807023	NC_021163.1	Ca_kabuli_chr04	28807023	TT	CC	1946809019
SNP_P4_51009_28817296	NC_021163.1	Ca_kabuli_chr04	28817296	TT	GG	1946809021
SNP_P4_51010_28818392	NC_021163.1	Ca_kabuli_chr04	28818392	TT	CC	1946809023
SNP_P4_51011_28818400	NC_021163.1	Ca_kabuli_chr04	28818400	CC	TT	1946809025
SNP_P4_51012_28818436	NC_021163.1	Ca_kabuli_chr04	28818436	TT	CC	1946809027
SNP_P4_51013_28818438	NC_021163.1	Ca_kabuli_chr04	28818438	GG	AA	1946809030
SNP_P4_51014_28818517	NC_021163.1	Ca_kabuli_chr04	28818517	AA	CC	1946809032
SNP_P4_51015_28818539	NC_021163.1	Ca_kabuli_chr04	28818539	GG	CC	1946809034
SNP_P4_51016_28818560	NC_021163.1	Ca_kabuli_chr04	28818560	CC	GG	1946809036
SNP_P4_51017_28820238	NC_021163.1	Ca_kabuli_chr04	28820238	GG	AA	1946809037
SNP_P4_51018_28820244	NC_021163.1	Ca_kabuli_chr04	28820244	CC	TT	1946809039
SNP_P4_51019_28820245	NC_021163.1	Ca_kabuli_chr04	28820245	TT	CC	1946809041
SNP_P4_51020_28820270	NC_021163.1	Ca_kabuli_chr04	28820270	TT	CC	1946809043
SNP_P4_51021_28820276	NC_021163.1	Ca_kabuli_chr04	28820276	AA	GG	1946809045
SNP_P4_51022_28820282	NC_021163.1	Ca_kabuli_chr04	28820282	AA	TT	1946809047
SNP_P4_51023_28820778	NC_021163.1	Ca_kabuli_chr04	28820778	CC	TT	1946809049
SNP_P4_51024_28820805	NC_021163.1	Ca_kabuli_chr04	28820805	CC	TT	1946809051
SNP_P4_51025_28822111	NC_021163.1	Ca_kabuli_chr04	28822111	CC	TT	1946809054
SNP_P4_51027_28822372	NC_021163.1	Ca_kabuli_chr04	28822372	AA	CC	1946809056
SNP_P4_51029_28822429	NC_021163.1	Ca_kabuli_chr04	28822429	CC	TT	1946809058
SNP_P4_51030_28822450	NC_021163.1	Ca_kabuli_chr04	28822450	AA	CC	1946809060
SNP_P4_51034_28823583	NC_021163.1	Ca_kabuli_chr04	28823583	AA	GG	1946809062
SNP_P4_51035_28825199	NC_021163.1	Ca_kabuli_chr04	28825199	TT	CC	1946809064
SNP_P4_51036_28825201	NC_021163.1	Ca_kabuli_chr04	28825201	AA	CC	1946809066
SNP_P4_51037_28825724	NC_021163.1	Ca_kabuli_chr04	28825724	CC	TT	1946809068
SNP_P4_51038_28825980	NC_021163.1	Ca_kabuli_chr04	28825980	CC	TT	1946809070
SNP_P4_51040_28826325	NC_021163.1	Ca_kabuli_chr04	28826325	AA	GG	1946809072
SNP_P4_51041_28827161	NC_021163.1	Ca_kabuli_chr04	28827161	CC	TT	1946809075
SNP_P4_51042_28827171	NC_021163.1	Ca_kabuli_chr04	28827171	AA	GG	1946809077
SNP_P4_51043_28827525	NC_021163.1	Ca_kabuli_chr04	28827525	GG	CC	1946809079
SNP_P4_51044_28829846	NC_021163.1	Ca_kabuli_chr04	28829846	GG	AA	1946809081
SNP_P4_51045_28830289	NC_021163.1	Ca_kabuli_chr04	28830289	AA	GG	1946809083
SNP_P4_51046_28831254	NC_021163.1	Ca_kabuli_chr04	28831254	CC	TT	1946809086
SNP_P4_51047_28832275	NC_021163.1	Ca_kabuli_chr04	28832275	TT	CC	1946809088
SNP_P4_51049_28834513	NC_021163.1	Ca_kabuli_chr04	28834513	GG	TT	1946809090
SNP_P4_51050_28835536	NC_021163.1	Ca_kabuli_chr04	28835536	GG	AA	1946809092
SNP_P4_51051_28835538	NC_021163.1	Ca_kabuli_chr04	28835538	CC	TT	1946809094
SNP_P4_51052_28835752	NC_021163.1	Ca_kabuli_chr04	28835752	TT	AA	1946809096

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_51054_28842263	NC_021163.1	Ca_kabuli_chr04	28842263	AA	GG	1946809100
SNP_P4_51055_28842278	NC_021163.1	Ca_kabuli_chr04	28842278	GG	AA	1946809103
SNP_P4_51057_28847931	NC_021163.1	Ca_kabuli_chr04	28847931	GG	AA	1946809105
SNP_P4_51059_28848599	NC_021163.1	Ca_kabuli_chr04	28848599	AA	TT	1946809107
SNP_P4_51060_28848719	NC_021163.1	Ca_kabuli_chr04	28848719	GG	AA	1946809109
SNP_P4_51061_28849982	NC_021163.1	Ca_kabuli_chr04	28849982	AA	GG	1946809111
SNP_P4_51063_28851061	NC_021163.1	Ca_kabuli_chr04	28851061	CC	TT	1946809113
SNP_P4_51064_28851303	NC_021163.1	Ca_kabuli_chr04	28851303	CC	TT	1946809115
SNP_P4_51066_28855173	NC_021163.1	Ca_kabuli_chr04	28855173	TT	CC	1946809117
SNP_P4_51067_28855175	NC_021163.1	Ca_kabuli_chr04	28855175	TT	CC	1946809119
SNP_P4_51068_28855663	NC_021163.1	Ca_kabuli_chr04	28855663	AA	TT	1946809121
SNP_P4_51069_28855776	NC_021163.1	Ca_kabuli_chr04	28855776	TT	CC	1946809123
SNP_P4_51070_28855976	NC_021163.1	Ca_kabuli_chr04	28855976	TT	CC	1946809125
SNP_P4_51071_28857130	NC_021163.1	Ca_kabuli_chr04	28857130	TT	CC	1946809127
SNP_P4_51072_28860771	NC_021163.1	Ca_kabuli_chr04	28860771	CC	AA	1946809129
SNP_P4_51073_28862838	NC_021163.1	Ca_kabuli_chr04	28862838	AA	GG	1946809131
SNP_P4_51074_28864866	NC_021163.1	Ca_kabuli_chr04	28864866	CC	TT	1946809133
SNP_P4_51075_28865650	NC_021163.1	Ca_kabuli_chr04	28865650	AA	TT	1946809135
SNP_P4_51076_28871493	NC_021163.1	Ca_kabuli_chr04	28871493	CC	GG	1946809137
SNP_P4_51077_28871702	NC_021163.1	Ca_kabuli_chr04	28871702	AA	GG	1946809139
SNP_P4_51078_28872796	NC_021163.1	Ca_kabuli_chr04	28872796	AA	GG	1946809141
SNP_P4_51079_28880039	NC_021163.1	Ca_kabuli_chr04	28880039	GG	AA	1946809143
SNP_P4_51080_28885929	NC_021163.1	Ca_kabuli_chr04	28885929	TT	CC	1946809145
SNP_P4_51081_28886259	NC_021163.1	Ca_kabuli_chr04	28886259	TT	CC	1946809147
SNP_P4_51082_28886292	NC_021163.1	Ca_kabuli_chr04	28886292	CC	TT	1946809149
SNP_P4_51083_28886719	NC_021163.1	Ca_kabuli_chr04	28886719	TT	CC	1946809151
SNP_P4_51084_28887325	NC_021163.1	Ca_kabuli_chr04	28887325	CC	TT	1946809153
SNP_P4_51085_28887375	NC_021163.1	Ca_kabuli_chr04	28887375	GG	TT	1946809155
SNP_P4_51086_28892209	NC_021163.1	Ca_kabuli_chr04	28892209	CC	TT	1946809157
SNP_P4_51087_28895113	NC_021163.1	Ca_kabuli_chr04	28895113	GG	TT	1946809159
SNP_P4_51088_28900350	NC_021163.1	Ca_kabuli_chr04	28900350	GG	AA	1946809161
SNP_P4_51089_28900358	NC_021163.1	Ca_kabuli_chr04	28900358	CC	TT	1946809163
SNP_P4_51090_28900529	NC_021163.1	Ca_kabuli_chr04	28900529	GG	AA	1946809165
SNP_P4_51091_28901127	NC_021163.1	Ca_kabuli_chr04	28901127	CC	TT	1946809167
SNP_P4_51092_28901262	NC_021163.1	Ca_kabuli_chr04	28901262	CC	AA	1946809170
SNP_P4_51093_28903525	NC_021163.1	Ca_kabuli_chr04	28903525	CC	AA	1946809172
SNP_P4_51095_28911272	NC_021163.1	Ca_kabuli_chr04	28911272	TT	AA	1946809174
SNP_P4_51096_28911274	NC_021163.1	Ca_kabuli_chr04	28911274	AA	GG	1946809176
SNP_P4_51097_28913740	NC_021163.1	Ca_kabuli_chr04	28913740	GG	AA	1946809178
SNP_P4_51099_28914031	NC_021163.1	Ca_kabuli_chr04	28914031	CC	TT	1946809180
SNP_P4_51100_28914111	NC_021163.1	Ca_kabuli_chr04	28914111	AA	CC	1946809182

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_51102_28914717	NC_021163.1	Ca_kabuli_chr04	28914717	AA	TT	1946809187
SNP_P4_51104_28916054	NC_021163.1	Ca_kabuli_chr04	28916054	TT	CC	1946809189
SNP_P4_51105_28917623	NC_021163.1	Ca_kabuli_chr04	28917623	CC	AA	1946809191
SNP_P4_51107_28922045	NC_021163.1	Ca_kabuli_chr04	28922045	CC	TT	1946809193
SNP_P4_51108_28922368	NC_021163.1	Ca_kabuli_chr04	28922368	TT	GG	1946809195
SNP_P4_51109_28924939	NC_021163.1	Ca_kabuli_chr04	28924939	AA	TT	1946809197
SNP_P4_51110_28924999	NC_021163.1	Ca_kabuli_chr04	28924999	AA	GG	1946809199
SNP_P4_51111_28927798	NC_021163.1	Ca_kabuli_chr04	28927798	GG	TT	1946809201
SNP_P4_51112_28928273	NC_021163.1	Ca_kabuli_chr04	28928273	TT	CC	1946809203
SNP_P4_51114_28931739	NC_021163.1	Ca_kabuli_chr04	28931739	GG	AA	1946809206
SNP_P4_51116_28935629	NC_021163.1	Ca_kabuli_chr04	28935629	GG	CC	1946809208
SNP_P4_51118_28939228	NC_021163.1	Ca_kabuli_chr04	28939228	AA	GG	1946809210
SNP_P4_51119_28939622	NC_021163.1	Ca_kabuli_chr04	28939622	TT	CC	1946809212
SNP_P4_51120_28940807	NC_021163.1	Ca_kabuli_chr04	28940807	GG	AA	1946809214
SNP_P4_51122_28952731	NC_021163.1	Ca_kabuli_chr04	28952731	GG	AA	1946809217
SNP_P4_51123_28953540	NC_021163.1	Ca_kabuli_chr04	28953540	GG	AA	1946809219
SNP_P4_51124_28953597	NC_021163.1	Ca_kabuli_chr04	28953597	TT	CC	1946809221
SNP_P4_51125_28954090	NC_021163.1	Ca_kabuli_chr04	28954090	AA	GG	1946809224
SNP_P4_51126_28954333	NC_021163.1	Ca_kabuli_chr04	28954333	CC	AA	1946809226
SNP_P4_51127_28954749	NC_021163.1	Ca_kabuli_chr04	28954749	CC	AA	1946809228
SNP_P4_51128_28957946	NC_021163.1	Ca_kabuli_chr04	28957946	TT	GG	1946809230
SNP_P4_51129_28958003	NC_021163.1	Ca_kabuli_chr04	28958003	TT	GG	1946809232
SNP_P4_51130_28969470	NC_021163.1	Ca_kabuli_chr04	28969470	CC	TT	1946809234
SNP_P4_51131_28969476	NC_021163.1	Ca_kabuli_chr04	28969476	GG	AA	1946809236
SNP_P4_51132_28981315	NC_021163.1	Ca_kabuli_chr04	28981315	GG	TT	1946809239
SNP_P4_51133_28981396	NC_021163.1	Ca_kabuli_chr04	28981396	CC	TT	1946809241
SNP_P4_51134_28981476	NC_021163.1	Ca_kabuli_chr04	28981476	CC	TT	1946809243
SNP_P4_51135_28982457	NC_021163.1	Ca_kabuli_chr04	28982457	TT	AA	1946809245
SNP_P4_51136_28982860	NC_021163.1	Ca_kabuli_chr04	28982860	TT	CC	1946809247
SNP_P4_51137_28982883	NC_021163.1	Ca_kabuli_chr04	28982883	TT	CC	1946809249
SNP_P4_51138_28982942	NC_021163.1	Ca_kabuli_chr04	28982942	CC	TT	1946809251
SNP_P4_51139_28985994	NC_021163.1	Ca_kabuli_chr04	28985994	AA	TT	1946809253
SNP_P4_51140_28986023	NC_021163.1	Ca_kabuli_chr04	28986023	TT	CC	1946809256
SNP_P4_51141_28986145	NC_021163.1	Ca_kabuli_chr04	28986145	GG	AA	1946809258
SNP_P4_51142_28986395	NC_021163.1	Ca_kabuli_chr04	28986395	CC	TT	1946809260
SNP_P4_51143_28986423	NC_021163.1	Ca_kabuli_chr04	28986423	GG	AA	1946809262
SNP_P4_51144_28986433	NC_021163.1	Ca_kabuli_chr04	28986433	AA	TT	1946809264
SNP_P4_51145_28986491	NC_021163.1	Ca_kabuli_chr04	28986491	AA	GG	1946809266
SNP_P4_51146_28986929	NC_021163.1	Ca_kabuli_chr04	28986929	TT	CC	1946809268
SNP_P4_51147_28988612	NC_021163.1	Ca_kabuli_chr04	28988612	TT	GG	1946809270
SNP_P4_51148_28988648	NC_021163.1	Ca_kabuli_chr04	28988648	TT	CC	1946809273

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_51151_28990519	NC_021163.1	Ca_kabuli_chr04	28990519	GG	AA	1946809277
SNP_P4_51152_28990846	NC_021163.1	Ca_kabuli_chr04	28990846	CC	TT	1946809279
SNP_P4_51153_28991647	NC_021163.1	Ca_kabuli_chr04	28991647	GG	CC	1946809281
SNP_P4_51155_28993331	NC_021163.1	Ca_kabuli_chr04	28993331	GG	AA	1946809283
SNP_P4_51156_28993362	NC_021163.1	Ca_kabuli_chr04	28993362	GG	AA	1946809285
SNP_P4_51157_28994453	NC_021163.1	Ca_kabuli_chr04	28994453	GG	TT	1946809287
SNP_P4_51159_28996399	NC_021163.1	Ca_kabuli_chr04	28996399	AA	GG	1946809289
SNP_P4_51160_28997714	NC_021163.1	Ca_kabuli_chr04	28997714	TT	CC	1946809291
SNP_P4_51161_28997715	NC_021163.1	Ca_kabuli_chr04	28997715	TT	CC	1946809293
SNP_P4_51162_29007676	NC_021163.1	Ca_kabuli_chr04	29007676	GG	AA	1946809295
SNP_P4_51163_29007679	NC_021163.1	Ca_kabuli_chr04	29007679	AA	GG	1946809297
SNP_P4_51164_29007686	NC_021163.1	Ca_kabuli_chr04	29007686	CC	TT	1946809300
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SNP_P4_51166_29007711	NC_021163.1	Ca_kabuli_chr04	29007711	CC	AA	1946809304
SNP_P4_51167_29007747	NC_021163.1	Ca_kabuli_chr04	29007747	CC	TT	1946809306
SNP_P4_51168_29007886	NC_021163.1	Ca_kabuli_chr04	29007886	AA	GG	1946809308
SNP_P4_51169_29007894	NC_021163.1	Ca_kabuli_chr04	29007894	TT	CC	1946809310
SNP_P4_51170_29007908	NC_021163.1	Ca_kabuli_chr04	29007908	GG	AA	1946809312
SNP_P4_51171_29007911	NC_021163.1	Ca_kabuli_chr04	29007911	CC	AA	1946809314
SNP_P4_51172_29007949	NC_021163.1	Ca_kabuli_chr04	29007949	CC	TT	1946809316
SNP_P4_51173_29007994	NC_021163.1	Ca_kabuli_chr04	29007994	GG	AA	1946809318
SNP_P4_51174_29008004	NC_021163.1	Ca_kabuli_chr04	29008004	GG	AA	1946809320
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SNP_P4_51178_29008267	NC_021163.1	Ca_kabuli_chr04	29008267	TT	AA	1946809326
SNP_P4_51179_29020032	NC_021163.1	Ca_kabuli_chr04	29020032	GG	AA	1946809328
SNP_P4_51180_29028279	NC_021163.1	Ca_kabuli_chr04	29028279	TT	CC	1946809331
SNP_P4_51181_29028313	NC_021163.1	Ca_kabuli_chr04	29028313	TT	GG	1946809333
SNP_P4_51182_29028335	NC_021163.1	Ca_kabuli_chr04	29028335	GG	TT	1946809335
SNP_P4_51183_29029737	NC_021163.1	Ca_kabuli_chr04	29029737	AA	TT	1946809337
SNP_P4_51184_29029765	NC_021163.1	Ca_kabuli_chr04	29029765	CC	TT	1946809339
SNP_P4_51185_29031808	NC_021163.1	Ca_kabuli_chr04	29031808	AA	CC	1946809341
SNP_P4_51186_29033889	NC_021163.1	Ca_kabuli_chr04	29033889	GG	AA	1946809343
SNP_P4_51188_29034188	NC_021163.1	Ca_kabuli_chr04	29034188	GG	AA	1946809346
SNP_P4_51189_29034454	NC_021163.1	Ca_kabuli_chr04	29034454	CC	TT	1946809348
SNP_P4_51190_29035116	NC_021163.1	Ca_kabuli_chr04	29035116	AA	TT	1946809350
SNP_P4_51191_29035132	NC_021163.1	Ca_kabuli_chr04	29035132	TT	CC	1946809352
SNP_P4_51192_29035147	NC_021163.1	Ca_kabuli_chr04	29035147	GG	AA	1946809354
SNP_P4_51193_29035157	NC_021163.1	Ca_kabuli_chr04	29035157	AA	GG	1946809357
SNP_P4_51195_29037347	NC_021163.1	Ca_kabuli_chr04	29037347	CC	TT	1946809359
SNP_P4_51196_29037669	NC_021163.1	Ca_kabuli_chr04	29037669	TT	CC	1946809361

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_51200_29038002	NC_021163.1	Ca_kabuli_chr04	29038002	TT	CC	1946809367
SNP_P4_51201_29038237	NC_021163.1	Ca_kabuli_chr04	29038237	CC	AA	1946809370
SNP_P4_51202_29038253	NC_021163.1	Ca_kabuli_chr04	29038253	CC	TT	1946809372
SNP_P4_51203_29038924	NC_021163.1	Ca_kabuli_chr04	29038924	TT	AA	1946809374
SNP_P4_51204_29048601	NC_021163.1	Ca_kabuli_chr04	29048601	AA	TT	1946809376
SNP_P4_51205_29049570	NC_021163.1	Ca_kabuli_chr04	29049570	GG	TT	1946809378
SNP_P4_51206_29049574	NC_021163.1	Ca_kabuli_chr04	29049574	TT	AA	1946809380
SNP_P4_51207_29049580	NC_021163.1	Ca_kabuli_chr04	29049580	GG	AA	1946809382
SNP_P4_51208_29049584	NC_021163.1	Ca_kabuli_chr04	29049584	GG	AA	1946809384
SNP_P4_51209_29049664	NC_021163.1	Ca_kabuli_chr04	29049664	TT	CC	1946809386
SNP_P4_51210_29049856	NC_021163.1	Ca_kabuli_chr04	29049856	AA	GG	1946809388
SNP_P4_51211_29049908	NC_021163.1	Ca_kabuli_chr04	29049908	TT	CC	1946809390
SNP_P4_51212_29049923	NC_021163.1	Ca_kabuli_chr04	29049923	TT	CC	1946809392
SNP_P4_51213_29049939	NC_021163.1	Ca_kabuli_chr04	29049939	TT	AA	1946809395
SNP_P4_51214_29051192	NC_021163.1	Ca_kabuli_chr04	29051192	TT	CC	1946809397
SNP_P4_51215_29051193	NC_021163.1	Ca_kabuli_chr04	29051193	TT	CC	1946809399
SNP_P4_51216_29051215	NC_021163.1	Ca_kabuli_chr04	29051215	AA	GG	1946809401
SNP_P4_51217_29051223	NC_021163.1	Ca_kabuli_chr04	29051223	TT	AA	1946809403
SNP_P4_51218_29051823	NC_021163.1	Ca_kabuli_chr04	29051823	TT	CC	1946809405
SNP_P4_51220_29053244	NC_021163.1	Ca_kabuli_chr04	29053244	AA	GG	1946809407
SNP_P4_51221_29053612	NC_021163.1	Ca_kabuli_chr04	29053612	CC	TT	1946809409
SNP_P4_51222_29053648	NC_021163.1	Ca_kabuli_chr04	29053648	TT	CC	1946809411
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SNP_P4_51225_29053711	NC_021163.1	Ca_kabuli_chr04	29053711	TT	AA	1946809417
SNP_P4_51226_29053891	NC_021163.1	Ca_kabuli_chr04	29053891	AA	GG	1946809419
SNP_P4_51227_29053940	NC_021163.1	Ca_kabuli_chr04	29053940	CC	GG	1946809421
SNP_P4_51228_29054169	NC_021163.1	Ca_kabuli_chr04	29054169	AA	CC	1946809423
SNP_P4_51229_29054582	NC_021163.1	Ca_kabuli_chr04	29054582	TT	AA	1946809425
SNP_P4_51230_29054605	NC_021163.1	Ca_kabuli_chr04	29054605	CC	TT	1946809427
SNP_P4_51231_29055244	NC_021163.1	Ca_kabuli_chr04	29055244	TT	CC	1946809429
SNP_P4_51232_29055302	NC_021163.1	Ca_kabuli_chr04	29055302	AA	TT	1946809432
SNP_P4_51233_29055309	NC_021163.1	Ca_kabuli_chr04	29055309	AA	GG	1946809434
SNP_P4_51234_29056423	NC_021163.1	Ca_kabuli_chr04	29056423	GG	AA	1946809436
SNP_P4_51235_29057136	NC_021163.1	Ca_kabuli_chr04	29057136	CC	TT	1946809438
SNP_P4_51236_29057197	NC_021163.1	Ca_kabuli_chr04	29057197	TT	CC	1946809440
SNP_P4_51237_29058991	NC_021163.1	Ca_kabuli_chr04	29058991	AA	TT	1946809442
SNP_P4_51238_29059215	NC_021163.1	Ca_kabuli_chr04	29059215	AA	CC	1946809444
SNP_P4_51239_29059226	NC_021163.1	Ca_kabuli_chr04	29059226	AA	GG	1946809447
SNP_P4_51240_29059257	NC_021163.1	Ca_kabuli_chr04	29059257	GG	TT	1946809449

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_51242_29059278	NC_021163.1	Ca_kabuli_chr04	29059278	TT	CC	1946809454
SNP_P4_51243_29061631	NC_021163.1	Ca_kabuli_chr04	29061631	GG	TT	1946809456
SNP_P4_51244_29061644	NC_021163.1	Ca_kabuli_chr04	29061644	CC	GG	1946809458
SNP_P4_51245_29061671	NC_021163.1	Ca_kabuli_chr04	29061671	AA	GG	1946809460
SNP_P4_51246_29062116	NC_021163.1	Ca_kabuli_chr04	29062116	TT	GG	1946809462
SNP_P4_51247_29062228	NC_021163.1	Ca_kabuli_chr04	29062228	TT	CC	1946809464
SNP_P4_51248_29062766	NC_021163.1	Ca_kabuli_chr04	29062766	GG	TT	1946809467
SNP_P4_51249_29062770	NC_021163.1	Ca_kabuli_chr04	29062770	AA	TT	1946809469
SNP_P4_51250_29063089	NC_021163.1	Ca_kabuli_chr04	29063089	GG	TT	1946809471
SNP_P4_51251_29063097	NC_021163.1	Ca_kabuli_chr04	29063097	TT	CC	1946809473
SNP_P4_51252_29064483	NC_021163.1	Ca_kabuli_chr04	29064483	GG	AA	1946809475
SNP_P4_51253_29064845	NC_021163.1	Ca_kabuli_chr04	29064845	TT	CC	1946809478
SNP_P4_51254_29064858	NC_021163.1	Ca_kabuli_chr04	29064858	GG	AA	1946809480
SNP_P4_51255_29067006	NC_021163.1	Ca_kabuli_chr04	29067006	CC	AA	1946809482
SNP_P4_51256_29067452	NC_021163.1	Ca_kabuli_chr04	29067452	GG	AA	1946809484
SNP_P4_51257_29069914	NC_021163.1	Ca_kabuli_chr04	29069914	TT	CC	1946809486
SNP_P4_51259_29070185	NC_021163.1	Ca_kabuli_chr04	29070185	AA	CC	1946809488
SNP_P4_51260_29070534	NC_021163.1	Ca_kabuli_chr04	29070534	GG	TT	1946809491
SNP_P4_51261_29070544	NC_021163.1	Ca_kabuli_chr04	29070544	TT	CC	1946809493
SNP_P4_51262_29070596	NC_021163.1	Ca_kabuli_chr04	29070596	CC	TT	1946809495
SNP_P4_51263_29071172	NC_021163.1	Ca_kabuli_chr04	29071172	GG	TT	1946809497
SNP_P4_51264_29071427	NC_021163.1	Ca_kabuli_chr04	29071427	GG	TT	1946809499
SNP_P4_51265_29071988	NC_021163.1	Ca_kabuli_chr04	29071988	GG	AA	1946809501
SNP_P4_51266_29072255	NC_021163.1	Ca_kabuli_chr04	29072255	AA	GG	1946809503
SNP_P4_51267_29072275	NC_021163.1	Ca_kabuli_chr04	29072275	AA	CC	1946809505
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SNP_P4_51272_29074040	NC_021163.1	Ca_kabuli_chr04	29074040	CC	TT	1946809514
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SNP_P4_51274_29084202	NC_021163.1	Ca_kabuli_chr04	29084202	AA	GG	1946809519
SNP_P4_51275_29084399	NC_021163.1	Ca_kabuli_chr04	29084399	CC	GG	1946809521
SNP_P4_51276_29084430	NC_021163.1	Ca_kabuli_chr04	29084430	CC	TT	1946809523
SNP_P4_51277_29084698	NC_021163.1	Ca_kabuli_chr04	29084698	CC	AA	1946809525
SNP_P4_51278_29084704	NC_021163.1	Ca_kabuli_chr04	29084704	CC	TT	1946809527
SNP_P4_51279_29084779	NC_021163.1	Ca_kabuli_chr04	29084779	GG	AA	1946809529
SNP_P4_51280_29084832	NC_021163.1	Ca_kabuli_chr04	29084832	GG	AA	1946809531
SNP_P4_51281_29085178	NC_021163.1	Ca_kabuli_chr04	29085178	CC	TT	1946809533
SNP_P4_51282_29086551	NC_021163.1	Ca_kabuli_chr04	29086551	AA	TT	1946809535
SNP_P4_51283_29086557	NC_021163.1	Ca_kabuli_chr04	29086557	GG	AA	1946809537
SNP_P4_51284_29086567	NC_021163.1	Ca_kabuli_chr04	29086567	AA	GG	1946809539

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_51287_29087591	NC_021163.1	Ca_kabuli_chr04	29087591	CC	TT	1946809545
SNP_P4_51288_29089228	NC_021163.1	Ca_kabuli_chr04	29089228	GG	AA	1946809548
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SNP_P4_51290_29090884	NC_021163.1	Ca_kabuli_chr04	29090884	TT	AA	1946809552
SNP_P4_51293_29091340	NC_021163.1	Ca_kabuli_chr04	29091340	CC	AA	1946809554
SNP_P4_51294_29091704	NC_021163.1	Ca_kabuli_chr04	29091704	CC	TT	1946809556
SNP_P4_51295_29091854	NC_021163.1	Ca_kabuli_chr04	29091854	TT	CC	1946809558
SNP_P4_51296_29091875	NC_021163.1	Ca_kabuli_chr04	29091875	CC	GG	1946809560
SNP_P4_51297_29092147	NC_021163.1	Ca_kabuli_chr04	29092147	CC	TT	1946809562
SNP_P4_51298_29092148	NC_021163.1	Ca_kabuli_chr04	29092148	CC	TT	1946809565
SNP_P4_51299_29092608	NC_021163.1	Ca_kabuli_chr04	29092608	TT	AA	1946809567
SNP_P4_51300_29092609	NC_021163.1	Ca_kabuli_chr04	29092609	AA	CC	1946809569
SNP_P4_51301_29092905	NC_021163.1	Ca_kabuli_chr04	29092905	GG	AA	1946809571
SNP_P4_51304_29093813	NC_021163.1	Ca_kabuli_chr04	29093813	AA	GG	1946809573
SNP_P4_51305_29094017	NC_021163.1	Ca_kabuli_chr04	29094017	CC	TT	1946809575
SNP_P4_51306_29094144	NC_021163.1	Ca_kabuli_chr04	29094144	CC	GG	1946809577
SNP_P4_51307_29096692	NC_021163.1	Ca_kabuli_chr04	29096692	TT	AA	1946809579
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SNP_P4_51310_29098145	NC_021163.1	Ca_kabuli_chr04	29098145	CC	TT	1946809586
SNP_P4_51311_29100390	NC_021163.1	Ca_kabuli_chr04	29100390	TT	GG	1946809588
SNP_P4_51312_29100485	NC_021163.1	Ca_kabuli_chr04	29100485	AA	GG	1946809590
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SNP_P4_51317_29100999	NC_021163.1	Ca_kabuli_chr04	29100999	TT	CC	1946809598
SNP_P4_51318_29108314	NC_021163.1	Ca_kabuli_chr04	29108314	AA	CC	1946809600
SNP_P4_51319_29108318	NC_021163.1	Ca_kabuli_chr04	29108318	CC	TT	1946809602
SNP_P4_51320_29108344	NC_021163.1	Ca_kabuli_chr04	29108344	TT	CC	1946809604
SNP_P4_51321_29108352	NC_021163.1	Ca_kabuli_chr04	29108352	GG	AA	1946809606
SNP_P4_51323_29110761	NC_021163.1	Ca_kabuli_chr04	29110761	AA	CC	1946809608
SNP_P4_51324_29111365	NC_021163.1	Ca_kabuli_chr04	29111365	GG	AA	1946809610
SNP_P4_51325_29111612	NC_021163.1	Ca_kabuli_chr04	29111612	AA	CC	1946809612
SNP_P4_51326_29111682	NC_021163.1	Ca_kabuli_chr04	29111682	AA	CC	1946809614
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SNP_P4_51328_29112069	NC_021163.1	Ca_kabuli_chr04	29112069	GG	CC	1946809618
SNP_P4_51329_29112084	NC_021163.1	Ca_kabuli_chr04	29112084	GG	AA	1946809620
SNP_P4_51330_29112100	NC_021163.1	Ca_kabuli_chr04	29112100	CC	TT	1946809623
SNP_P4_51331_29112137	NC_021163.1	Ca_kabuli_chr04	29112137	CC	TT	1946809625
SNP_P4_51332_29112138	NC_021163.1	Ca_kabuli_chr04	29112138	TT	GG	1946809627

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_51335_29112324	NC_021163.1	Ca_kabuli_chr04	29112324	TT	AA	1946809633
SNP_P4_51336_29112415	NC_021163.1	Ca_kabuli_chr04	29112415	CC	AA	1946809635
SNP_P4_51337_29112453	NC_021163.1	Ca_kabuli_chr04	29112453	AA	GG	1946809637
SNP_P4_51338_29113235	NC_021163.1	Ca_kabuli_chr04	29113235	AA	GG	1946809639
SNP_P4_51339_29113521	NC_021163.1	Ca_kabuli_chr04	29113521	TT	CC	1946809641
SNP_P4_51340_29113591	NC_021163.1	Ca_kabuli_chr04	29113591	AA	GG	1946809643
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SNP_P4_51342_29113754	NC_021163.1	Ca_kabuli_chr04	29113754	AA	GG	1946809647
SNP_P4_51343_29113790	NC_021163.1	Ca_kabuli_chr04	29113790	TT	CC	1946809649
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SNP_P4_51345_29114895	NC_021163.1	Ca_kabuli_chr04	29114895	AA	TT	1946809653
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SNP_P4_51347_29115227	NC_021163.1	Ca_kabuli_chr04	29115227	AA	GG	1946809657
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SNP_P4_51349_29115964	NC_021163.1	Ca_kabuli_chr04	29115964	AA	CC	1946809661
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SNP_P4_51355_29121161	NC_021163.1	Ca_kabuli_chr04	29121161	GG	AA	1946809673
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SNP_P4_51368_29124785	NC_021163.1	Ca_kabuli_chr04	29124785	AA	GG	1946809698
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SNP_P4_51370_29134959	NC_021163.1	Ca_kabuli_chr04	29134959	AA	GG	1946809702
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SNP_P4_51372_29134988	NC_021163.1	Ca_kabuli_chr04	29134988	GG	AA	1946809706
SNP_P4_51373_29135595	NC_021163.1	Ca_kabuli_chr04	29135595	TT	CC	1946809708
SNP_P4_51374_29135930	NC_021163.1	Ca_kabuli_chr04	29135930	AA	GG	1946809710
SNP_P4_51375_29136857	NC_021163.1	Ca_kabuli_chr04	29136857	AA	TT	1946809712

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_51379_29156376	NC_021163.1	Ca_kabuli_chr04	29156376	AA	TT	1946809720
SNP_P4_51381_29156578	NC_021163.1	Ca_kabuli_chr04	29156578	GG	TT	1946809722
SNP_P4_51383_29158242	NC_021163.1	Ca_kabuli_chr04	29158242	AA	GG	1946809724
SNP_P4_51384_29158389	NC_021163.1	Ca_kabuli_chr04	29158389	GG	AA	1946809726
SNP_P4_51385_29158392	NC_021163.1	Ca_kabuli_chr04	29158392	CC	TT	1946809728
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SNP_P4_51396_29163045	NC_021163.1	Ca_kabuli_chr04	29163045	AA	GG	1946809742
SNP_P4_51397_29163103	NC_021163.1	Ca_kabuli_chr04	29163103	CC	TT	1946809744
SNP_P4_51398_29163115	NC_021163.1	Ca_kabuli_chr04	29163115	AA	GG	1946809746
SNP_P4_51399_29174942	NC_021163.1	Ca_kabuli_chr04	29174942	TT	AA	1946809748
SNP_P4_51400_29175378	NC_021163.1	Ca_kabuli_chr04	29175378	TT	CC	1946809749
SNP_P4_51401_29175948	NC_021163.1	Ca_kabuli_chr04	29175948	TT	CC	1946809751
SNP_P4_51402_29176336	NC_021163.1	Ca_kabuli_chr04	29176336	AA	TT	1946809753
SNP_P4_51403_29183825	NC_021163.1	Ca_kabuli_chr04	29183825	AA	GG	1946809755
SNP_P4_51404_29183986	NC_021163.1	Ca_kabuli_chr04	29183986	AA	GG	1946809757
SNP_P4_51405_29184558	NC_021163.1	Ca_kabuli_chr04	29184558	AA	CC	1946809759
SNP_P4_51406_29186725	NC_021163.1	Ca_kabuli_chr04	29186725	AA	TT	1946809761
SNP_P4_51407_29187017	NC_021163.1	Ca_kabuli_chr04	29187017	CC	TT	1946809763
SNP_P4_51408_29187841	NC_021163.1	Ca_kabuli_chr04	29187841	AA	GG	1946809766
SNP_P4_51409_29188060	NC_021163.1	Ca_kabuli_chr04	29188060	TT	CC	1946809768
SNP_P4_51411_29191403	NC_021163.1	Ca_kabuli_chr04	29191403	CC	TT	1946809770
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SNP_P4_51413_29195251	NC_021163.1	Ca_kabuli_chr04	29195251	TT	AA	1946809774
SNP_P4_51414_29195333	NC_021163.1	Ca_kabuli_chr04	29195333	TT	CC	1946809776
SNP_P4_51415_29195335	NC_021163.1	Ca_kabuli_chr04	29195335	AA	GG	1946809778
SNP_P4_51416_29195480	NC_021163.1	Ca_kabuli_chr04	29195480	GG	TT	1946809780
SNP_P4_51417_29195506	NC_021163.1	Ca_kabuli_chr04	29195506	CC	TT	1946809782
SNP_P4_51418_29196647	NC_021163.1	Ca_kabuli_chr04	29196647	GG	AA	1946809784
SNP_P4_51419_29202472	NC_021163.1	Ca_kabuli_chr04	29202472	GG	TT	1946809786
SNP_P4_51420_29202507	NC_021163.1	Ca_kabuli_chr04	29202507	AA	CC	1946809788
SNP_P4_51421_29202635	NC_021163.1	Ca_kabuli_chr04	29202635	CC	TT	1946809791
SNP_P4_51422_29202638	NC_021163.1	Ca_kabuli_chr04	29202638	GG	AA	1946809793
SNP_P4_51423_29202659	NC_021163.1	Ca_kabuli_chr04	29202659	TT	GG	1946809795
SNP_P4_51424_29202666	NC_021163.1	Ca_kabuli_chr04	29202666	TT	CC	1946809797

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_51425_29202692	NC_021163.1	Ca_kabuli_chr04	29202692	CC	AA	1946809799
SNP_P4_51426_29202728	NC_021163.1	Ca_kabuli_chr04	29202728	TT	CC	1946809801
SNP_P4_51427_29205657	NC_021163.1	Ca_kabuli_chr04	29205657	TT	AA	1946809803
SNP_P4_51428_29207594	NC_021163.1	Ca_kabuli_chr04	29207594	CC	TT	1946809805
SNP_P4_51429_29207608	NC_021163.1	Ca_kabuli_chr04	29207608	GG	TT	1946809807
SNP_P4_51430_29208185	NC_021163.1	Ca_kabuli_chr04	29208185	CC	TT	1946809809
SNP_P4_51431_29208387	NC_021163.1	Ca_kabuli_chr04	29208387	AA	TT	1946809811
SNP_P4_51432_29208410	NC_021163.1	Ca_kabuli_chr04	29208410	TT	CC	1946809813
SNP_P4_51433_29208444	NC_021163.1	Ca_kabuli_chr04	29208444	TT	CC	1946809815
SNP_P4_51434_29208471	NC_021163.1	Ca_kabuli_chr04	29208471	CC	TT	1946809817
SNP_P4_51436_29209381	NC_021163.1	Ca_kabuli_chr04	29209381	TT	CC	1946809819
SNP_P4_51439_29211164	NC_021163.1	Ca_kabuli_chr04	29211164	AA	CC	1946809821
SNP_P4_51440_29211507	NC_021163.1	Ca_kabuli_chr04	29211507	TT	AA	1946809823
SNP_P4_51441_29211556	NC_021163.1	Ca_kabuli_chr04	29211556	CC	AA	1946809825
SNP_P4_51442_29211768	NC_021163.1	Ca_kabuli_chr04	29211768	CC	TT	1946809827
SNP_P4_51443_29212133	NC_021163.1	Ca_kabuli_chr04	29212133	GG	AA	1946809829
SNP_P4_51444_29212136	NC_021163.1	Ca_kabuli_chr04	29212136	TT	CC	1946809832
SNP_P4_51445_29212151	NC_021163.1	Ca_kabuli_chr04	29212151	TT	CC	1946809834
SNP_P4_51446_29212454	NC_021163.1	Ca_kabuli_chr04	29212454	CC	TT	1946809836
SNP_P4_51447_29212455	NC_021163.1	Ca_kabuli_chr04	29212455	GG	TT	1946809838
SNP_P4_51448_29212488	NC_021163.1	Ca_kabuli_chr04	29212488	CC	GG	1946809840
SNP_P4_51449_29212492	NC_021163.1	Ca_kabuli_chr04	29212492	AA	CC	1946809842
SNP_P4_51450_29215757	NC_021163.1	Ca_kabuli_chr04	29215757	AA	CC	1946809844
SNP_P4_51451_29216365	NC_021163.1	Ca_kabuli_chr04	29216365	AA	CC	1946809846
SNP_P4_51452_29218105	NC_021163.1	Ca_kabuli_chr04	29218105	TT	CC	1946809848
SNP_P4_51453_29218129	NC_021163.1	Ca_kabuli_chr04	29218129	GG	AA	1946809850
SNP_P4_51454_29219338	NC_021163.1	Ca_kabuli_chr04	29219338	TT	CC	1946809852
SNP_P4_51455_29219354	NC_021163.1	Ca_kabuli_chr04	29219354	GG	AA	1946809854
SNP_P4_51456_29219355	NC_021163.1	Ca_kabuli_chr04	29219355	TT	GG	1946809856
SNP_P4_51457_29219735	NC_021163.1	Ca_kabuli_chr04	29219735	AA	GG	1946809858
SNP_P4_51458_29220481	NC_021163.1	Ca_kabuli_chr04	29220481	TT	CC	1946809860
SNP_P4_51459_29220504	NC_021163.1	Ca_kabuli_chr04	29220504	GG	AA	1946809862
SNP_P4_51460_29220553	NC_021163.1	Ca_kabuli_chr04	29220553	AA	GG	1946809865
SNP_P4_51461_29220633	NC_021163.1	Ca_kabuli_chr04	29220633	TT	CC	1946809867
SNP_P4_51462_29220792	NC_021163.1	Ca_kabuli_chr04	29220792	GG	TT	1946809869
SNP_P4_51463_29220852	NC_021163.1	Ca_kabuli_chr04	29220852	AA	GG	1946809871
SNP_P4_51465_29220937	NC_021163.1	Ca_kabuli_chr04	29220937	AA	GG	1946809873
SNP_P4_51466_29221013	NC_021163.1	Ca_kabuli_chr04	29221013	TT	CC	1946809875
SNP_P4_51467_29221660	NC_021163.1	Ca_kabuli_chr04	29221660	TT	AA	1946809877
SNP_P4_51468_29221666	NC_021163.1	Ca_kabuli_chr04	29221666	TT	GG	1946809879
SNP_P4_51469_29221679	NC_021163.1	Ca_kabuli_chr04	29221679	TT	CC	1946809881
SNP_P4_51470_29221682	NC_021163.1	Ca_kabuli_chr04	29221682	AA	TT	1946809884

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_51473_29222001	NC_021163.1	Ca_kabuli_chr04	29222001	TT	AA	1946809886
SNP_P4_51474_29222060	NC_021163.1	Ca_kabuli_chr04	29222060	TT	AA	1946809888
SNP_P4_51476_29222451	NC_021163.1	Ca_kabuli_chr04	29222451	GG	AA	1946809890
SNP_P4_51477_29223202	NC_021163.1	Ca_kabuli_chr04	29223202	CC	TT	1946809892
SNP_P4_51478_29224248	NC_021163.1	Ca_kabuli_chr04	29224248	TT	GG	1946809894
SNP_P4_51479_29224274	NC_021163.1	Ca_kabuli_chr04	29224274	TT	AA	1946809897
SNP_P4_51480_29224275	NC_021163.1	Ca_kabuli_chr04	29224275	AA	TT	1946809899
SNP_P4_51481_29225997	NC_021163.1	Ca_kabuli_chr04	29225997	CC	AA	1946809901
SNP_P4_51482_29226167	NC_021163.1	Ca_kabuli_chr04	29226167	CC	AA	1946809903
SNP_P4_51483_29226216	NC_021163.1	Ca_kabuli_chr04	29226216	TT	AA	1946809905
SNP_P4_51484_29226318	NC_021163.1	Ca_kabuli_chr04	29226318	AA	TT	1946809907
SNP_P4_51485_29226644	NC_021163.1	Ca_kabuli_chr04	29226644	AA	GG	1946809909
SNP_P4_51486_29226681	NC_021163.1	Ca_kabuli_chr04	29226681	CC	TT	1946809911
SNP_P4_51489_29230721	NC_021163.1	Ca_kabuli_chr04	29230721	GG	AA	1946809913
SNP_P4_51490_29230723	NC_021163.1	Ca_kabuli_chr04	29230723	CC	TT	1946809916
SNP_P4_51491_29230763	NC_021163.1	Ca_kabuli_chr04	29230763	TT	AA	1946809918
SNP_P4_51492_29230920	NC_021163.1	Ca_kabuli_chr04	29230920	CC	TT	1946809920
SNP_P4_51493_29230952	NC_021163.1	Ca_kabuli_chr04	29230952	AA	CC	1946809922
SNP_P4_51495_29231709	NC_021163.1	Ca_kabuli_chr04	29231709	TT	CC	1946809924
SNP_P4_51496_29233571	NC_021163.1	Ca_kabuli_chr04	29233571	TT	GG	1946809926
SNP_P4_51498_29235538	NC_021163.1	Ca_kabuli_chr04	29235538	CC	TT	1946809928
SNP_P4_51499_29235761	NC_021163.1	Ca_kabuli_chr04	29235761	GG	AA	1946809930
SNP_P4_51500_29235776	NC_021163.1	Ca_kabuli_chr04	29235776	GG	CC	1946809932
SNP_P4_51501_29235779	NC_021163.1	Ca_kabuli_chr04	29235779	CC	TT	1946809934
SNP_P4_51502_29235786	NC_021163.1	Ca_kabuli_chr04	29235786	TT	CC	1946809936
SNP_P4_51503_29236626	NC_021163.1	Ca_kabuli_chr04	29236626	TT	GG	1946809939
SNP_P4_51504_29237107	NC_021163.1	Ca_kabuli_chr04	29237107	TT	CC	1946809941
SNP_P4_51505_29237381	NC_021163.1	Ca_kabuli_chr04	29237381	GG	AA	1946809943
SNP_P4_51506_29237398	NC_021163.1	Ca_kabuli_chr04	29237398	GG	AA	1946809945
SNP_P4_51507_29237418	NC_021163.1	Ca_kabuli_chr04	29237418	GG	AA	1946809947
SNP_P4_51508_29238083	NC_021163.1	Ca_kabuli_chr04	29238083	GG	AA	1946809949
SNP_P4_51509_29238342	NC_021163.1	Ca_kabuli_chr04	29238342	AA	GG	1946809951
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SNP_P4_51512_29238864	NC_021163.1	Ca_kabuli_chr04	29238864	TT	GG	1946809955
SNP_P4_51513_29239134	NC_021163.1	Ca_kabuli_chr04	29239134	TT	CC	1946809957
SNP_P4_51514_29239171	NC_021163.1	Ca_kabuli_chr04	29239171	GG	AA	1946809959
SNP_P4_51515_29239403	NC_021163.1	Ca_kabuli_chr04	29239403	AA	GG	1946809961
SNP_P4_51516_29239418	NC_021163.1	Ca_kabuli_chr04	29239418	AA	GG	1946809963
SNP_P4_51517_29239483	NC_021163.1	Ca_kabuli_chr04	29239483	TT	GG	1946809966
SNP_P4_51518_29239720	NC_021163.1	Ca_kabuli_chr04	29239720	TT	GG	1946809968
SNP_P4_51519_29240025	NC_021163.1	Ca_kabuli_chr04	29240025	CC	AA	1946809970
SNP_P4_51520_29240031	NC_021163.1	Ca_kabuli_chr04	29240031	TT	CC	1946809972

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_51522_29242865	NC_021163.1	Ca_kabuli_chr04	29242865	AA	GG	1946809976
SNP_P4_51523_29243442	NC_021163.1	Ca_kabuli_chr04	29243442	AA	GG	1946809978
SNP_P4_51524_29243866	NC_021163.1	Ca_kabuli_chr04	29243866	AA	GG	1946809980
SNP_P4_51526_29243935	NC_021163.1	Ca_kabuli_chr04	29243935	TT	CC	1946809982
SNP_P4_51527_29244371	NC_021163.1	Ca_kabuli_chr04	29244371	TT	GG	1946809984
SNP_P4_51528_29244669	NC_021163.1	Ca_kabuli_chr04	29244669	GG	AA	1946809987
SNP_P4_51530_29249203	NC_021163.1	Ca_kabuli_chr04	29249203	TT	CC	1946809989
SNP_P4_51531_29249260	NC_021163.1	Ca_kabuli_chr04	29249260	CC	TT	1946809991
SNP_P4_51532_29249263	NC_021163.1	Ca_kabuli_chr04	29249263	AA	GG	1946809993
SNP_P4_51533_29249533	NC_021163.1	Ca_kabuli_chr04	29249533	GG	AA	1946809995
SNP_P4_51534_29261694	NC_021163.1	Ca_kabuli_chr04	29261694	CC	AA	1946809997
SNP_P4_51536_29264236	NC_021163.1	Ca_kabuli_chr04	29264236	TT	CC	1946809999
SNP_P4_51537_29265350	NC_021163.1	Ca_kabuli_chr04	29265350	AA	CC	1946810001
SNP_P4_51538_29265484	NC_021163.1	Ca_kabuli_chr04	29265484	CC	TT	1946810003
SNP_P4_51539_29265544	NC_021163.1	Ca_kabuli_chr04	29265544	GG	CC	1946810005
SNP_P4_51540_29265872	NC_021163.1	Ca_kabuli_chr04	29265872	CC	TT	1946810007
SNP_P4_51541_29265914	NC_021163.1	Ca_kabuli_chr04	29265914	TT	AA	1946810009
SNP_P4_51542_29265962	NC_021163.1	Ca_kabuli_chr04	29265962	AA	GG	1946810011
SNP_P4_51543_29265966	NC_021163.1	Ca_kabuli_chr04	29265966	GG	AA	1946810013
SNP_P4_51544_29265973	NC_021163.1	Ca_kabuli_chr04	29265973	GG	AA	1946810015
SNP_P4_51545_29265974	NC_021163.1	Ca_kabuli_chr04	29265974	CC	GG	1946810017
SNP_P4_51546_29266685	NC_021163.1	Ca_kabuli_chr04	29266685	GG	AA	1946810019
SNP_P4_51547_29266720	NC_021163.1	Ca_kabuli_chr04	29266720	GG	AA	1946810021
SNP_P4_51548_29266766	NC_021163.1	Ca_kabuli_chr04	29266766	GG	CC	1946810023
SNP_P4_51549_29269481	NC_021163.1	Ca_kabuli_chr04	29269481	GG	AA	1946810025
SNP_P4_51550_29269506	NC_021163.1	Ca_kabuli_chr04	29269506	CC	AA	1946810028
SNP_P4_51551_29272994	NC_021163.1	Ca_kabuli_chr04	29272994	GG	AA	1946810030
SNP_P4_51552_29272995	NC_021163.1	Ca_kabuli_chr04	29272995	TT	AA	1946810032
SNP_P4_51554_29291902	NC_021163.1	Ca_kabuli_chr04	29291902	GG	AA	1946810034
SNP_P4_51555_29292314	NC_021163.1	Ca_kabuli_chr04	29292314	GG	AA	1946810036
SNP_P4_51556_29292346	NC_021163.1	Ca_kabuli_chr04	29292346	AA	CC	1946810038
SNP_P4_51557_29292497	NC_021163.1	Ca_kabuli_chr04	29292497	AA	GG	1946810040
SNP_P4_51559_29298129	NC_021163.1	Ca_kabuli_chr04	29298129	CC	AA	1946810043
SNP_P4_51560_29298385	NC_021163.1	Ca_kabuli_chr04	29298385	CC	TT	1946810045
SNP_P4_51561_29298844	NC_021163.1	Ca_kabuli_chr04	29298844	GG	AA	1946810047
SNP_P4_51562_29298884	NC_021163.1	Ca_kabuli_chr04	29298884	TT	CC	1946810050
SNP_P4_51563_29304655	NC_021163.1	Ca_kabuli_chr04	29304655	GG	AA	1946810052
SNP_P4_51564_29305055	NC_021163.1	Ca_kabuli_chr04	29305055	TT	GG	1946810054
SNP_P4_51565_29305060	NC_021163.1	Ca_kabuli_chr04	29305060	GG	AA	1946810056
SNP_P4_51566_29305061	NC_021163.1	Ca_kabuli_chr04	29305061	TT	CC	1946810058
SNP_P4_51567_29305094	NC_021163.1	Ca_kabuli_chr04	29305094	CC	TT	1946810060

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_51569_29308350	NC_021163.1	Ca_kabuli_chr04	29308350	GG	AA	1946810064
SNP_P4_51570_29308616	NC_021163.1	Ca_kabuli_chr04	29308616	TT	AA	1946810066
SNP_P4_51571_29308673	NC_021163.1	Ca_kabuli_chr04	29308673	TT	CC	1946810068
SNP_P4_51572_29308865	NC_021163.1	Ca_kabuli_chr04	29308865	AA	GG	1946810071
SNP_P4_51573_29308923	NC_021163.1	Ca_kabuli_chr04	29308923	CC	TT	1946810073
SNP_P4_51574_29308929	NC_021163.1	Ca_kabuli_chr04	29308929	TT	AA	1946810075
SNP_P4_51575_29310387	NC_021163.1	Ca_kabuli_chr04	29310387	GG	TT	1946810077
SNP_P4_51577_29311859	NC_021163.1	Ca_kabuli_chr04	29311859	CC	TT	1946810079
SNP_P4_51578_29311861	NC_021163.1	Ca_kabuli_chr04	29311861	GG	AA	1946810081
SNP_P4_51579_29312074	NC_021163.1	Ca_kabuli_chr04	29312074	CC	TT	1946810083
SNP_P4_51580_29312335	NC_021163.1	Ca_kabuli_chr04	29312335	CC	TT	1946810085
SNP_P4_51581_29312767	NC_021163.1	Ca_kabuli_chr04	29312767	AA	TT	1946810087
SNP_P4_51582_29312959	NC_021163.1	Ca_kabuli_chr04	29312959	CC	GG	1946810089
SNP_P4_51583_29313891	NC_021163.1	Ca_kabuli_chr04	29313891	CC	TT	1946810091
SNP_P4_51584_29314108	NC_021163.1	Ca_kabuli_chr04	29314108	TT	CC	1946810093
SNP_P4_51585_29314646	NC_021163.1	Ca_kabuli_chr04	29314646	AA	GG	1946810095
SNP_P4_51586_29314869	NC_021163.1	Ca_kabuli_chr04	29314869	TT	GG	1946810097
SNP_P4_51588_29316127	NC_021163.1	Ca_kabuli_chr04	29316127	TT	CC	1946810099
SNP_P4_51589_29316725	NC_021163.1	Ca_kabuli_chr04	29316725	TT	GG	1946810101
SNP_P4_51590_29319615	NC_021163.1	Ca_kabuli_chr04	29319615	TT	CC	1946810103
SNP_P4_51591_29319700	NC_021163.1	Ca_kabuli_chr04	29319700	GG	AA	1946810105
SNP_P4_51593_29320489	NC_021163.1	Ca_kabuli_chr04	29320489	CC	TT	1946810107
SNP_P4_51594_29320553	NC_021163.1	Ca_kabuli_chr04	29320553	GG	AA	1946810109
SNP_P4_51595_29320848	NC_021163.1	Ca_kabuli_chr04	29320848	TT	CC	1946810111
SNP_P4_51596_29320881	NC_021163.1	Ca_kabuli_chr04	29320881	CC	TT	1946810113
SNP_P4_51597_29320898	NC_021163.1	Ca_kabuli_chr04	29320898	CC	AA	1946810115
SNP_P4_51598_29320930	NC_021163.1	Ca_kabuli_chr04	29320930	GG	AA	1946810117
SNP_P4_51600_29321272	NC_021163.1	Ca_kabuli_chr04	29321272	GG	AA	1946810119
SNP_P4_51601_29321538	NC_021163.1	Ca_kabuli_chr04	29321538	GG	TT	1946810121
SNP_P4_51602_29323587	NC_021163.1	Ca_kabuli_chr04	29323587	TT	AA	1946810123
SNP_P4_51603_29323623	NC_021163.1	Ca_kabuli_chr04	29323623	TT	CC	1946810126
SNP_P4_51604_29323719	NC_021163.1	Ca_kabuli_chr04	29323719	CC	TT	1946810128
SNP_P4_51605_29323739	NC_021163.1	Ca_kabuli_chr04	29323739	CC	TT	1946810130
SNP_P4_51606_29323741	NC_021163.1	Ca_kabuli_chr04	29323741	CC	TT	1946810133
SNP_P4_51607_29323746	NC_021163.1	Ca_kabuli_chr04	29323746	GG	AA	1946810135
SNP_P4_51608_29323752	NC_021163.1	Ca_kabuli_chr04	29323752	TT	CC	1946810137
SNP_P4_51609_29323996	NC_021163.1	Ca_kabuli_chr04	29323996	TT	CC	1946810139
SNP_P4_51610_29324272	NC_021163.1	Ca_kabuli_chr04	29324272	AA	CC	1946810141
SNP_P4_51611_29324746	NC_021163.1	Ca_kabuli_chr04	29324746	AA	CC	1946810143
SNP_P4_51612_29325458	NC_021163.1	Ca_kabuli_chr04	29325458	AA	GG	1946810145
SNP_P4_51613_29325828	NC_021163.1	Ca_kabuli_chr04	29325828	AA	CC	1946810147

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_51615_29326411	NC_021163.1	Ca_kabuli_chr04	29326411	GG	AA	1946810151
SNP_P4_51616_29326423	NC_021163.1	Ca_kabuli_chr04	29326423	CC	TT	1946810154
SNP_P4_51617_29326477	NC_021163.1	Ca_kabuli_chr04	29326477	GG	TT	1946810156
SNP_P4_51618_29326706	NC_021163.1	Ca_kabuli_chr04	29326706	CC	AA	1946810158
SNP_P4_51619_29326725	NC_021163.1	Ca_kabuli_chr04	29326725	TT	CC	1946810160
SNP_P4_51620_29326824	NC_021163.1	Ca_kabuli_chr04	29326824	AA	CC	1946810162
SNP_P4_51621_29326889	NC_021163.1	Ca_kabuli_chr04	29326889	CC	AA	1946810164
SNP_P4_51622_29326972	NC_021163.1	Ca_kabuli_chr04	29326972	GG	AA	1946810166
SNP_P4_51623_29327098	NC_021163.1	Ca_kabuli_chr04	29327098	TT	CC	1946810168
SNP_P4_51624_29327249	NC_021163.1	Ca_kabuli_chr04	29327249	TT	CC	1946810170
SNP_P4_51625_29327379	NC_021163.1	Ca_kabuli_chr04	29327379	AA	GG	1946810172
SNP_P4_51626_29327793	NC_021163.1	Ca_kabuli_chr04	29327793	TT	CC	1946810174
SNP_P4_51627_29330731	NC_021163.1	Ca_kabuli_chr04	29330731	TT	AA	1946810176
SNP_P4_51628_29330764	NC_021163.1	Ca_kabuli_chr04	29330764	CC	TT	1946810178
SNP_P4_51630_29332164	NC_021163.1	Ca_kabuli_chr04	29332164	CC	GG	1946810180
SNP_P4_51631_29332169	NC_021163.1	Ca_kabuli_chr04	29332169	TT	CC	1946810182
SNP_P4_51632_29338382	NC_021163.1	Ca_kabuli_chr04	29338382	GG	AA	1946810184
SNP_P4_51633_29338656	NC_021163.1	Ca_kabuli_chr04	29338656	GG	AA	1946810186
SNP_P4_51634_29343210	NC_021163.1	Ca_kabuli_chr04	29343210	GG	TT	1946810188
SNP_P4_51635_29343480	NC_021163.1	Ca_kabuli_chr04	29343480	GG	AA	1946810190
SNP_P4_51636_29343558	NC_021163.1	Ca_kabuli_chr04	29343558	AA	TT	1946810192
SNP_P4_51638_29350264	NC_021163.1	Ca_kabuli_chr04	29350264	CC	TT	1946810194
SNP_P4_51639_29350292	NC_021163.1	Ca_kabuli_chr04	29350292	TT	AA	1946810196
SNP_P4_51640_29350572	NC_021163.1	Ca_kabuli_chr04	29350572	CC	AA	1946810198
SNP_P4_51641_29350607	NC_021163.1	Ca_kabuli_chr04	29350607	AA	TT	1946810200
SNP_P4_51642_29351273	NC_021163.1	Ca_kabuli_chr04	29351273	AA	GG	1946810202
SNP_P4_51643_29351293	NC_021163.1	Ca_kabuli_chr04	29351293	AA	GG	1946810204
SNP_P4_51644_29351298	NC_021163.1	Ca_kabuli_chr04	29351298	TT	AA	1946810206
SNP_P4_51645_29351891	NC_021163.1	Ca_kabuli_chr04	29351891	GG	AA	1946810208
SNP_P4_51646_29357366	NC_021163.1	Ca_kabuli_chr04	29357366	TT	AA	1946810210
SNP_P4_51647_29357680	NC_021163.1	Ca_kabuli_chr04	29357680	TT	AA	1946810212
SNP_P4_51648_29358287	NC_021163.1	Ca_kabuli_chr04	29358287	TT	CC	1946810214
SNP_P4_51649_29358538	NC_021163.1	Ca_kabuli_chr04	29358538	TT	CC	1946810216
SNP_P4_51651_29358626	NC_021163.1	Ca_kabuli_chr04	29358626	TT	CC	1946810218
SNP_P4_51652_29358683	NC_021163.1	Ca_kabuli_chr04	29358683	TT	CC	1946810220
SNP_P4_51653_29358918	NC_021163.1	Ca_kabuli_chr04	29358918	TT	CC	1946810222
SNP_P4_51654_29359097	NC_021163.1	Ca_kabuli_chr04	29359097	TT	CC	1946810224
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SNP_P4_51657_29366478	NC_021163.1	Ca_kabuli_chr04	29366478	GG	AA	1946810228
SNP_P4_51658_29366793	NC_021163.1	Ca_kabuli_chr04	29366793	TT	CC	1946810230
SNP_P4_51659_29367542	NC_021163.1	Ca_kabuli_chr04	29367542	TT	CC	1946810232

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_51666_29379263	NC_021163.1	Ca_kabuli_chr04	29379263	CC	TT	1946810236
SNP_P4_51667_29379295	NC_021163.1	Ca_kabuli_chr04	29379295	AA	CC	1946810238
SNP_P4_51668_29384732	NC_021163.1	Ca_kabuli_chr04	29384732	GG	TT	1946810240
SNP_P4_51669_29386920	NC_021163.1	Ca_kabuli_chr04	29386920	CC	AA	1946810243
SNP_P4_51670_29389769	NC_021163.1	Ca_kabuli_chr04	29389769	TT	GG	1946810245
SNP_P4_51671_29391474	NC_021163.1	Ca_kabuli_chr04	29391474	TT	GG	1946810247
SNP_P4_51672_29393129	NC_021163.1	Ca_kabuli_chr04	29393129	GG	AA	1946810249
SNP_P4_51674_29400754	NC_021163.1	Ca_kabuli_chr04	29400754	GG	AA	1946810251
SNP_P4_51675_29402452	NC_021163.1	Ca_kabuli_chr04	29402452	TT	CC	1946810254
SNP_P4_51676_29411443	NC_021163.1	Ca_kabuli_chr04	29411443	AA	GG	1946810256
SNP_P4_51677_29415532	NC_021163.1	Ca_kabuli_chr04	29415532	AA	TT	1946810258
SNP_P4_51679_29415578	NC_021163.1	Ca_kabuli_chr04	29415578	AA	GG	1946810260
SNP_P4_51680_29415819	NC_021163.1	Ca_kabuli_chr04	29415819	CC	GG	1946810262
SNP_P4_51681_29416004	NC_021163.1	Ca_kabuli_chr04	29416004	CC	TT	1946810265
SNP_P4_51682_29416290	NC_021163.1	Ca_kabuli_chr04	29416290	AA	CC	1946810267
SNP_P4_51683_29418211	NC_021163.1	Ca_kabuli_chr04	29418211	AA	TT	1946810269
SNP_P4_51685_29419929	NC_021163.1	Ca_kabuli_chr04	29419929	GG	AA	1946810271
SNP_P4_51686_29419933	NC_021163.1	Ca_kabuli_chr04	29419933	TT	CC	1946810273
SNP_P4_51687_29419964	NC_021163.1	Ca_kabuli_chr04	29419964	AA	TT	1946810275
SNP_P4_51688_29420203	NC_021163.1	Ca_kabuli_chr04	29420203	CC	TT	1946810277
SNP_P4_51690_29420231	NC_021163.1	Ca_kabuli_chr04	29420231	AA	GG	1946810279
SNP_P4_51691_29420673	NC_021163.1	Ca_kabuli_chr04	29420673	TT	AA	1946810281
SNP_P4_51692_29420674	NC_021163.1	Ca_kabuli_chr04	29420674	TT	AA	1946810283
SNP_P4_51694_29420935	NC_021163.1	Ca_kabuli_chr04	29420935	AA	GG	1946810286
SNP_P4_51695_29420973	NC_021163.1	Ca_kabuli_chr04	29420973	GG	AA	1946810288
SNP_P4_51696_29421180	NC_021163.1	Ca_kabuli_chr04	29421180	TT	AA	1946810290
SNP_P4_51698_29423023	NC_021163.1	Ca_kabuli_chr04	29423023	CC	GG	1946810292
SNP_P4_51699_29423554	NC_021163.1	Ca_kabuli_chr04	29423554	TT	CC	1946810294
SNP_P4_51700_29424664	NC_021163.1	Ca_kabuli_chr04	29424664	GG	AA	1946810296
SNP_P4_51701_29428182	NC_021163.1	Ca_kabuli_chr04	29428182	AA	TT	1946810299
SNP_P4_51703_29429153	NC_021163.1	Ca_kabuli_chr04	29429153	TT	AA	1946810301
SNP_P4_51705_29433360	NC_021163.1	Ca_kabuli_chr04	29433360	AA	GG	1946810303
SNP_P4_51706_29435126	NC_021163.1	Ca_kabuli_chr04	29435126	AA	GG	1946810305
SNP_P4_51707_29435986	NC_021163.1	Ca_kabuli_chr04	29435986	AA	GG	1946810307
SNP_P4_51708_29439053	NC_021163.1	Ca_kabuli_chr04	29439053	AA	CC	1946810309
SNP_P4_51709_29439110	NC_021163.1	Ca_kabuli_chr04	29439110	CC	TT	1946810312
SNP_P4_51710_29439292	NC_021163.1	Ca_kabuli_chr04	29439292	AA	CC	1946810313
SNP_P4_51712_29443293	NC_021163.1	Ca_kabuli_chr04	29443293	GG	AA	1946810315
SNP_P4_51714_29444223	NC_021163.1	Ca_kabuli_chr04	29444223	AA	GG	1946810317
SNP_P4_51715_29444655	NC_021163.1	Ca_kabuli_chr04	29444655	TT	CC	1946810319
SNP_P4_51716_29445125	NC_021163.1	Ca_kabuli_chr04	29445125	TT	CC	1946810321

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_51718_29447793	NC_021163.1	Ca_kabuli_chr04	29447793	GG	AA	1946810326
SNP_P4_51719_29449125	NC_021163.1	Ca_kabuli_chr04	29449125	GG	AA	1946810328
SNP_P4_51720_29452715	NC_021163.1	Ca_kabuli_chr04	29452715	TT	AA	1946810331
SNP_P4_51721_29453110	NC_021163.1	Ca_kabuli_chr04	29453110	AA	GG	1946810333
SNP_P4_51722_29453113	NC_021163.1	Ca_kabuli_chr04	29453113	CC	TT	1946810335
SNP_P4_51723_29453144	NC_021163.1	Ca_kabuli_chr04	29453144	TT	CC	1946810337
SNP_P4_51724_29453145	NC_021163.1	Ca_kabuli_chr04	29453145	GG	AA	1946810340
SNP_P4_51725_29453157	NC_021163.1	Ca_kabuli_chr04	29453157	TT	GG	1946810342
SNP_P4_51726_29453208	NC_021163.1	Ca_kabuli_chr04	29453208	GG	AA	1946810344
SNP_P4_51727_29456245	NC_021163.1	Ca_kabuli_chr04	29456245	AA	GG	1946810346
SNP_P4_51728_29456685	NC_021163.1	Ca_kabuli_chr04	29456685	CC	TT	1946810349
SNP_P4_51729_29457612	NC_021163.1	Ca_kabuli_chr04	29457612	TT	CC	1946810351
SNP_P4_51730_29457875	NC_021163.1	Ca_kabuli_chr04	29457875	AA	GG	1946810353
SNP_P4_51731_29461084	NC_021163.1	Ca_kabuli_chr04	29461084	CC	TT	1946810355
SNP_P4_51732_29461197	NC_021163.1	Ca_kabuli_chr04	29461197	AA	GG	1946810357
SNP_P4_51733_29464434	NC_021163.1	Ca_kabuli_chr04	29464434	TT	CC	1946810359
SNP_P4_51734_29466893	NC_021163.1	Ca_kabuli_chr04	29466893	CC	TT	1946810361
SNP_P4_51735_29469568	NC_021163.1	Ca_kabuli_chr04	29469568	CC	TT	1946810363
SNP_P4_51736_29469619	NC_021163.1	Ca_kabuli_chr04	29469619	AA	TT	1946810365
SNP_P4_51737_29472191	NC_021163.1	Ca_kabuli_chr04	29472191	CC	GG	1946810367
SNP_P4_51738_29472256	NC_021163.1	Ca_kabuli_chr04	29472256	AA	GG	1946810370
SNP_P4_51739_29472263	NC_021163.1	Ca_kabuli_chr04	29472263	TT	CC	1946810372
SNP_P4_51740_29475029	NC_021163.1	Ca_kabuli_chr04	29475029	TT	AA	1946810374
SNP_P4_51741_29475085	NC_021163.1	Ca_kabuli_chr04	29475085	CC	TT	1946810376
SNP_P4_51742_29475117	NC_021163.1	Ca_kabuli_chr04	29475117	GG	TT	1946810378
SNP_P4_51743_29475366	NC_021163.1	Ca_kabuli_chr04	29475366	AA	GG	1946810380
SNP_P4_51744_29475408	NC_021163.1	Ca_kabuli_chr04	29475408	AA	GG	1946810382
SNP_P4_51745_29477954	NC_021163.1	Ca_kabuli_chr04	29477954	GG	AA	1946810384
SNP_P4_51746_29480645	NC_021163.1	Ca_kabuli_chr04	29480645	TT	GG	1946810386
SNP_P4_51747_29481187	NC_021163.1	Ca_kabuli_chr04	29481187	AA	CC	1946810388
SNP_P4_51748_29481206	NC_021163.1	Ca_kabuli_chr04	29481206	CC	TT	1946810390
SNP_P4_51749_29483186	NC_021163.1	Ca_kabuli_chr04	29483186	CC	TT	1946810392
SNP_P4_51750_29487889	NC_021163.1	Ca_kabuli_chr04	29487889	CC	TT	1946810394
SNP_P4_51751_29487899	NC_021163.1	Ca_kabuli_chr04	29487899	GG	AA	1946810396
SNP_P4_51752_29490702	NC_021163.1	Ca_kabuli_chr04	29490702	TT	GG	1946810398
SNP_P4_51753_29490800	NC_021163.1	Ca_kabuli_chr04	29490800	TT	AA	1946810400
SNP_P4_51754_29490826	NC_021163.1	Ca_kabuli_chr04	29490826	GG	AA	1946810402
SNP_P4_51755_29490839	NC_021163.1	Ca_kabuli_chr04	29490839	AA	GG	1946810404
SNP_P4_51756_29491024	NC_021163.1	Ca_kabuli_chr04	29491024	TT	GG	1946810406
SNP_P4_51757_29491031	NC_021163.1	Ca_kabuli_chr04	29491031	CC	TT	1946810408
SNP_P4_51758_29491092	NC_021163.1	Ca_kabuli_chr04	29491092	TT	AA	1946810410

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_51760_29492860	NC_021163.1	Ca_kabuli_chr04	29492860	AA	TT	1946810414
SNP_P4_51761_29492862	NC_021163.1	Ca_kabuli_chr04	29492862	AA	TT	1946810416
SNP_P4_51762_29492884	NC_021163.1	Ca_kabuli_chr04	29492884	AA	GG	1946810418
SNP_P4_51763_29493217	NC_021163.1	Ca_kabuli_chr04	29493217	TT	CC	1946810420
SNP_P4_51765_29499002	NC_021163.1	Ca_kabuli_chr04	29499002	GG	CC	1946810422
SNP_P4_51767_29509576	NC_021163.1	Ca_kabuli_chr04	29509576	AA	TT	1946810425
SNP_P4_51769_29511922	NC_021163.1	Ca_kabuli_chr04	29511922	GG	AA	1946810427
SNP_P4_51770_29517121	NC_021163.1	Ca_kabuli_chr04	29517121	AA	CC	1946810429
SNP_P4_51771_29520652	NC_021163.1	Ca_kabuli_chr04	29520652	GG	TT	1946810431
SNP_P4_51772_29521490	NC_021163.1	Ca_kabuli_chr04	29521490	CC	TT	1946810433
SNP_P4_51773_29522445	NC_021163.1	Ca_kabuli_chr04	29522445	CC	AA	1946810435
SNP_P4_51774_29528689	NC_021163.1	Ca_kabuli_chr04	29528689	GG	AA	1946810437
SNP_P4_51777_29532867	NC_021163.1	Ca_kabuli_chr04	29532867	TT	AA	1946810439
SNP_P4_51778_29532879	NC_021163.1	Ca_kabuli_chr04	29532879	AA	TT	1946810441
SNP_P4_51780_29534014	NC_021163.1	Ca_kabuli_chr04	29534014	GG	TT	1946810443
SNP_P4_51781_29534241	NC_021163.1	Ca_kabuli_chr04	29534241	GG	AA	1946810445
SNP_P4_51783_29535989	NC_021163.1	Ca_kabuli_chr04	29535989	AA	GG	1946810447
SNP_P4_51784_29542920	NC_021163.1	Ca_kabuli_chr04	29542920	GG	TT	1946810449
SNP_P4_51788_29545621	NC_021163.1	Ca_kabuli_chr04	29545621	GG	AA	1946810451
SNP_P4_51789_29550682	NC_021163.1	Ca_kabuli_chr04	29550682	CC	TT	1946810453
SNP_P4_51790_29553569	NC_021163.1	Ca_kabuli_chr04	29553569	TT	GG	1946810455
SNP_P4_51791_29553830	NC_021163.1	Ca_kabuli_chr04	29553830	CC	TT	1946810457
SNP_P4_51792_29558523	NC_021163.1	Ca_kabuli_chr04	29558523	TT	CC	1946810459
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SNP_P4_51794_29559281	NC_021163.1	Ca_kabuli_chr04	29559281	CC	TT	1946810463
SNP_P4_51795_29564341	NC_021163.1	Ca_kabuli_chr04	29564341	GG	CC	1946810465
SNP_P4_51796_29564349	NC_021163.1	Ca_kabuli_chr04	29564349	TT	CC	1946810467
SNP_P4_51797_29564364	NC_021163.1	Ca_kabuli_chr04	29564364	AA	GG	1946810470
SNP_P4_51798_29564541	NC_021163.1	Ca_kabuli_chr04	29564541	CC	TT	1946810472
SNP_P4_51799_29564590	NC_021163.1	Ca_kabuli_chr04	29564590	CC	TT	1946810474
SNP_P4_51800_29564613	NC_021163.1	Ca_kabuli_chr04	29564613	GG	AA	1946810476
SNP_P4_51802_29570251	NC_021163.1	Ca_kabuli_chr04	29570251	TT	AA	1946810478
SNP_P4_51803_29570480	NC_021163.1	Ca_kabuli_chr04	29570480	AA	GG	1946810480
SNP_P4_51804_29571385	NC_021163.1	Ca_kabuli_chr04	29571385	GG	AA	1946810483
SNP_P4_51805_29571466	NC_021163.1	Ca_kabuli_chr04	29571466	TT	AA	1946810485
SNP_P4_51806_29575141	NC_021163.1	Ca_kabuli_chr04	29575141	TT	AA	1946810487
SNP_P4_51807_29575365	NC_021163.1	Ca_kabuli_chr04	29575365	AA	CC	1946810489
SNP_P4_51808_29575416	NC_021163.1	Ca_kabuli_chr04	29575416	GG	TT	1946810491
SNP_P4_51809_29575420	NC_021163.1	Ca_kabuli_chr04	29575420	AA	TT	1946810493
SNP_P4_51811_29582524	NC_021163.1	Ca_kabuli_chr04	29582524	CC	GG	1946810495
SNP_P4_51813_29584417	NC_021163.1	Ca_kabuli_chr04	29584417	TT	CC	1946810497

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_51815_29591451	NC_021163.1	Ca_kabuli_chr04	29591451	TT	AA	1946810501
SNP_P4_51816_29591530	NC_021163.1	Ca_kabuli_chr04	29591530	CC	AA	1946810504
SNP_P4_51818_29602552	NC_021163.1	Ca_kabuli_chr04	29602552	CC	GG	1946810506
SNP_P4_51819_29602565	NC_021163.1	Ca_kabuli_chr04	29602565	GG	CC	1946810508
SNP_P4_51820_29602578	NC_021163.1	Ca_kabuli_chr04	29602578	TT	CC	1946810510
SNP_P4_51821_29602643	NC_021163.1	Ca_kabuli_chr04	29602643	AA	TT	1946810513
SNP_P4_51822_29602919	NC_021163.1	Ca_kabuli_chr04	29602919	GG	AA	1946810515
SNP_P4_51823_29604814	NC_021163.1	Ca_kabuli_chr04	29604814	CC	TT	1946810517
SNP_P4_51825_29604924	NC_021163.1	Ca_kabuli_chr04	29604924	CC	TT	1946810519
SNP_P4_51826_29604962	NC_021163.1	Ca_kabuli_chr04	29604962	CC	TT	1946810521
SNP_P4_51827_29604995	NC_021163.1	Ca_kabuli_chr04	29604995	CC	TT	1946810523
SNP_P4_51828_29605327	NC_021163.1	Ca_kabuli_chr04	29605327	AA	GG	1946810525
SNP_P4_51829_29605817	NC_021163.1	Ca_kabuli_chr04	29605817	CC	TT	1946810527
SNP_P4_51830_29605822	NC_021163.1	Ca_kabuli_chr04	29605822	GG	TT	1946810529
SNP_P4_51832_29616196	NC_021163.1	Ca_kabuli_chr04	29616196	AA	CC	1946810531
SNP_P4_51833_29616284	NC_021163.1	Ca_kabuli_chr04	29616284	GG	AA	1946810533
SNP_P4_51835_29618097	NC_021163.1	Ca_kabuli_chr04	29618097	CC	TT	1946810535
SNP_P4_51837_29619130	NC_021163.1	Ca_kabuli_chr04	29619130	GG	AA	1946810537
SNP_P4_51838_29619677	NC_021163.1	Ca_kabuli_chr04	29619677	AA	TT	1946810539
SNP_P4_51839_29619709	NC_021163.1	Ca_kabuli_chr04	29619709	TT	CC	1946810541
SNP_P4_51840_29619951	NC_021163.1	Ca_kabuli_chr04	29619951	CC	GG	1946810543
SNP_P4_51841_29620903	NC_021163.1	Ca_kabuli_chr04	29620903	CC	AA	1946810545
SNP_P4_51842_29621873	NC_021163.1	Ca_kabuli_chr04	29621873	AA	GG	1946810547
SNP_P4_51843_29622342	NC_021163.1	Ca_kabuli_chr04	29622342	GG	AA	1946810549
SNP_P4_51844_29622548	NC_021163.1	Ca_kabuli_chr04	29622548	GG	TT	1946810551
SNP_P4_51846_29622837	NC_021163.1	Ca_kabuli_chr04	29622837	CC	TT	1946810553
SNP_P4_51848_29624153	NC_021163.1	Ca_kabuli_chr04	29624153	AA	TT	1946810556
SNP_P4_51849_29624267	NC_021163.1	Ca_kabuli_chr04	29624267	GG	AA	1946810558
SNP_P4_51850_29624547	NC_021163.1	Ca_kabuli_chr04	29624547	TT	GG	1946810560
SNP_P4_51851_29624615	NC_021163.1	Ca_kabuli_chr04	29624615	TT	CC	1946810562
SNP_P4_51852_29624652	NC_021163.1	Ca_kabuli_chr04	29624652	TT	CC	1946810564
SNP_P4_51853_29625726	NC_021163.1	Ca_kabuli_chr04	29625726	AA	GG	1946810566
SNP_P4_51854_29625750	NC_021163.1	Ca_kabuli_chr04	29625750	GG	TT	1946810568
SNP_P4_51856_29626061	NC_021163.1	Ca_kabuli_chr04	29626061	CC	TT	1946810570
SNP_P4_51857_29627088	NC_021163.1	Ca_kabuli_chr04	29627088	CC	AA	1946810572
SNP_P4_51858_29627716	NC_021163.1	Ca_kabuli_chr04	29627716	AA	TT	1946810574
SNP_P4_51859_29627840	NC_021163.1	Ca_kabuli_chr04	29627840	AA	TT	1946810576
SNP_P4_51861_29629807	NC_021163.1	Ca_kabuli_chr04	29629807	TT	GG	1946810578
SNP_P4_51862_29634768	NC_021163.1	Ca_kabuli_chr04	29634768	TT	CC	1946810580
SNP_P4_51863_29635104	NC_021163.1	Ca_kabuli_chr04	29635104	AA	TT	1946810582
SNP_P4_51864_29635157	NC_021163.1	Ca_kabuli_chr04	29635157	GG	TT	1946810584

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_51865_29635194	NC_021163.1	Ca_kabuli_chr04	29635194	CC	TT	1946810586
SNP_P4_51866_29635197	NC_021163.1	Ca_kabuli_chr04	29635197	TT	CC	1946810588
SNP_P4_51867_29635812	NC_021163.1	Ca_kabuli_chr04	29635812	TT	CC	1946810590
SNP_P4_51868_29635817	NC_021163.1	Ca_kabuli_chr04	29635817	TT	CC	1946810592
SNP_P4_51869_29635886	NC_021163.1	Ca_kabuli_chr04	29635886	CC	TT	1946810594
SNP_P4_51870_29636174	NC_021163.1	Ca_kabuli_chr04	29636174	CC	GG	1946810596
SNP_P4_51871_29638720	NC_021163.1	Ca_kabuli_chr04	29638720	AA	CC	1946810598
SNP_P4_51872_29638737	NC_021163.1	Ca_kabuli_chr04	29638737	CC	AA	1946810600
SNP_P4_51873_29639049	NC_021163.1	Ca_kabuli_chr04	29639049	TT	CC	1946810602
SNP_P4_51874_29639234	NC_021163.1	Ca_kabuli_chr04	29639234	GG	AA	1946810604
SNP_P4_51875_29641022	NC_021163.1	Ca_kabuli_chr04	29641022	GG	CC	1946810606
SNP_P4_51876_29641062	NC_021163.1	Ca_kabuli_chr04	29641062	AA	TT	1946810608
SNP_P4_51877_29641087	NC_021163.1	Ca_kabuli_chr04	29641087	CC	TT	1946810611
SNP_P4_51878_29641095	NC_021163.1	Ca_kabuli_chr04	29641095	GG	TT	1946810613
SNP_P4_51879_29641115	NC_021163.1	Ca_kabuli_chr04	29641115	GG	AA	1946810615
SNP_P4_51880_29642018	NC_021163.1	Ca_kabuli_chr04	29642018	CC	TT	1946810617
SNP_P4_51881_29642088	NC_021163.1	Ca_kabuli_chr04	29642088	AA	GG	1946810619
SNP_P4_51882_29642166	NC_021163.1	Ca_kabuli_chr04	29642166	AA	TT	1946810621
SNP_P4_51883_29642173	NC_021163.1	Ca_kabuli_chr04	29642173	TT	AA	1946810623
SNP_P4_51884_29642627	NC_021163.1	Ca_kabuli_chr04	29642627	AA	CC	1946810625
SNP_P4_51885_29644066	NC_021163.1	Ca_kabuli_chr04	29644066	CC	TT	1946810627
SNP_P4_51886_29646572	NC_021163.1	Ca_kabuli_chr04	29646572	GG	AA	1946810629
SNP_P4_51887_29646784	NC_021163.1	Ca_kabuli_chr04	29646784	TT	GG	1946810631
SNP_P4_51888_29646940	NC_021163.1	Ca_kabuli_chr04	29646940	AA	GG	1946810633
SNP_P4_51889_29646966	NC_021163.1	Ca_kabuli_chr04	29646966	GG	AA	1946810636
SNP_P4_51891_29647409	NC_021163.1	Ca_kabuli_chr04	29647409	CC	TT	1946810638
SNP_P4_51892_29647432	NC_021163.1	Ca_kabuli_chr04	29647432	AA	GG	1946810640
SNP_P4_51893_29647835	NC_021163.1	Ca_kabuli_chr04	29647835	GG	AA	1946810641
SNP_P4_51894_29647884	NC_021163.1	Ca_kabuli_chr04	29647884	TT	AA	1946810642
SNP_P4_51895_29647898	NC_021163.1	Ca_kabuli_chr04	29647898	TT	CC	1946810643
SNP_P4_51896_29648259	NC_021163.1	Ca_kabuli_chr04	29648259	CC	TT	1946810644
SNP_P4_51897_29648286	NC_021163.1	Ca_kabuli_chr04	29648286	AA	TT	1946810645
SNP_P4_51898_29648487	NC_021163.1	Ca_kabuli_chr04	29648487	TT	AA	1946810646
SNP_P4_51899_29648508	NC_021163.1	Ca_kabuli_chr04	29648508	GG	TT	1946810647
SNP_P4_51900_29648556	NC_021163.1	Ca_kabuli_chr04	29648556	CC	AA	1946810649
SNP_P4_51902_29650609	NC_021163.1	Ca_kabuli_chr04	29650609	TT	CC	1946810651
SNP_P4_51903_29650897	NC_021163.1	Ca_kabuli_chr04	29650897	TT	CC	1946810653
SNP_P4_51904_29650937	NC_021163.1	Ca_kabuli_chr04	29650937	TT	CC	1946810655
SNP_P4_51905_29651201	NC_021163.1	Ca_kabuli_chr04	29651201	CC	TT	1946810657
SNP_P4_51906_29651357	NC_021163.1	Ca_kabuli_chr04	29651357	CC	TT	1946810659
SNP_P4_51907_29651760	NC_021163.1	Ca_kabuli_chr04	29651760	TT	CC	1946810661
SNP_P4_51908_29651767	NC_021163.1	Ca_kabuli_chr04	29651767	GG	AA	1946810663

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_51910_29652305	NC_021163.1	Ca_kabuli_chr04	29652305	GG	TT	1946810667
SNP_P4_51911_29652874	NC_021163.1	Ca_kabuli_chr04	29652874	CC	TT	1946810669
SNP_P4_51912_29652899	NC_021163.1	Ca_kabuli_chr04	29652899	TT	CC	1946810671
SNP_P4_51913_29653203	NC_021163.1	Ca_kabuli_chr04	29653203	AA	GG	1946810674
SNP_P4_51914_29653248	NC_021163.1	Ca_kabuli_chr04	29653248	AA	CC	1946810676
SNP_P4_51915_29653255	NC_021163.1	Ca_kabuli_chr04	29653255	TT	GG	1946810678
SNP_P4_51916_29653327	NC_021163.1	Ca_kabuli_chr04	29653327	GG	TT	1946810680
SNP_P4_51917_29653520	NC_021163.1	Ca_kabuli_chr04	29653520	CC	TT	1946810682
SNP_P4_51918_29653813	NC_021163.1	Ca_kabuli_chr04	29653813	CC	TT	1946810684
SNP_P4_51919_29653829	NC_021163.1	Ca_kabuli_chr04	29653829	AA	GG	1946810686
SNP_P4_51920_29656965	NC_021163.1	Ca_kabuli_chr04	29656965	CC	TT	1946810688
SNP_P4_51921_29656966	NC_021163.1	Ca_kabuli_chr04	29656966	GG	AA	1946810690
SNP_P4_51922_29659255	NC_021163.1	Ca_kabuli_chr04	29659255	AA	GG	1946810692
SNP_P4_51923_29659481	NC_021163.1	Ca_kabuli_chr04	29659481	CC	TT	1946810694
SNP_P4_51924_29659765	NC_021163.1	Ca_kabuli_chr04	29659765	AA	GG	1946810696
SNP_P4_51925_29659769	NC_021163.1	Ca_kabuli_chr04	29659769	CC	AA	1946810698
SNP_P4_51926_29659999	NC_021163.1	Ca_kabuli_chr04	29659999	GG	AA	1946810700
SNP_P4_51927_29660018	NC_021163.1	Ca_kabuli_chr04	29660018	TT	CC	1946810702
SNP_P4_51928_29660317	NC_021163.1	Ca_kabuli_chr04	29660317	AA	TT	1946810704
SNP_P4_51929_29660324	NC_021163.1	Ca_kabuli_chr04	29660324	CC	TT	1946810706
SNP_P4_51930_29660665	NC_021163.1	Ca_kabuli_chr04	29660665	TT	GG	1946810708
SNP_P4_51931_29660712	NC_021163.1	Ca_kabuli_chr04	29660712	CC	TT	1946810710
SNP_P4_51932_29661353	NC_021163.1	Ca_kabuli_chr04	29661353	TT	CC	1946810712
SNP_P4_51933_29661544	NC_021163.1	Ca_kabuli_chr04	29661544	CC	AA	1946810714
SNP_P4_51934_29661654	NC_021163.1	Ca_kabuli_chr04	29661654	TT	CC	1946810716
SNP_P4_51935_29661689	NC_021163.1	Ca_kabuli_chr04	29661689	TT	GG	1946810718
SNP_P4_51936_29661859	NC_021163.1	Ca_kabuli_chr04	29661859	CC	AA	1946810720
SNP_P4_51937_29666634	NC_021163.1	Ca_kabuli_chr04	29666634	AA	CC	1946810723
SNP_P4_51938_29666662	NC_021163.1	Ca_kabuli_chr04	29666662	AA	TT	1946810725
SNP_P4_51939_29669403	NC_021163.1	Ca_kabuli_chr04	29669403	AA	GG	1946810727
SNP_P4_51941_29670266	NC_021163.1	Ca_kabuli_chr04	29670266	CC	TT	1946810729
SNP_P4_51942_29671042	NC_021163.1	Ca_kabuli_chr04	29671042	CC	TT	1946810731
SNP_P4_51943_29672190	NC_021163.1	Ca_kabuli_chr04	29672190	CC	TT	1946810733
SNP_P4_51944_29672200	NC_021163.1	Ca_kabuli_chr04	29672200	TT	CC	1946810735
SNP_P4_51945_29672823	NC_021163.1	Ca_kabuli_chr04	29672823	CC	AA	1946810737
SNP_P4_51946_29673375	NC_021163.1	Ca_kabuli_chr04	29673375	GG	AA	1946810739
SNP_P4_51947_29680525	NC_021163.1	Ca_kabuli_chr04	29680525	AA	GG	1946810741
SNP_P4_51948_29681723	NC_021163.1	Ca_kabuli_chr04	29681723	AA	GG	1946810743
SNP_P4_51949_29682090	NC_021163.1	Ca_kabuli_chr04	29682090	AA	GG	1946810745
SNP_P4_51951_29683718	NC_021163.1	Ca_kabuli_chr04	29683718	AA	TT	1946810747
SNP_P4_51952_29684096	NC_021163.1	Ca_kabuli_chr04	29684096	TT	CC	1946810750

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_51953_29685286	NC_021163.1	Ca_kabuli_chr04	29685286	AA	GG	1946810752
SNP_P4_51954_29686848	NC_021163.1	Ca_kabuli_chr04	29686848	CC	AA	1946810754
SNP_P4_51955_29687819	NC_021163.1	Ca_kabuli_chr04	29687819	AA	GG	1946810756
SNP_P4_51956_29695789	NC_021163.1	Ca_kabuli_chr04	29695789	GG	CC	1946810758
SNP_P4_51957_29695923	NC_021163.1	Ca_kabuli_chr04	29695923	TT	CC	1946810760
SNP_P4_51958_29696128	NC_021163.1	Ca_kabuli_chr04	29696128	AA	CC	1946810762
SNP_P4_51961_29697618	NC_021163.1	Ca_kabuli_chr04	29697618	CC	GG	1946810764
SNP_P4_51963_29697939	NC_021163.1	Ca_kabuli_chr04	29697939	CC	TT	1946810766
SNP_P4_51964_29699392	NC_021163.1	Ca_kabuli_chr04	29699392	CC	TT	1946810768
SNP_P4_51965_29700810	NC_021163.1	Ca_kabuli_chr04	29700810	GG	AA	1946810770
SNP_P4_51966_29701075	NC_021163.1	Ca_kabuli_chr04	29701075	CC	AA	1946810772
SNP_P4_51967_29701087	NC_021163.1	Ca_kabuli_chr04	29701087	AA	CC	1946810774
SNP_P4_51969_29701799	NC_021163.1	Ca_kabuli_chr04	29701799	GG	TT	1946810776
SNP_P4_51970_29702439	NC_021163.1	Ca_kabuli_chr04	29702439	AA	GG	1946810779
SNP_P4_51971_29702460	NC_021163.1	Ca_kabuli_chr04	29702460	CC	TT	1946810781
SNP_P4_51972_29703064	NC_021163.1	Ca_kabuli_chr04	29703064	TT	CC	1946810783
SNP_P4_51973_29703503	NC_021163.1	Ca_kabuli_chr04	29703503	CC	TT	1946810785
SNP_P4_51974_29704177	NC_021163.1	Ca_kabuli_chr04	29704177	CC	TT	1946810787
SNP_P4_51976_29709055	NC_021163.1	Ca_kabuli_chr04	29709055	GG	AA	1946810789
SNP_P4_51977_29709989	NC_021163.1	Ca_kabuli_chr04	29709989	GG	CC	1946810791
SNP_P4_51978_29710168	NC_021163.1	Ca_kabuli_chr04	29710168	AA	GG	1946810793
SNP_P4_51979_29710170	NC_021163.1	Ca_kabuli_chr04	29710170	TT	AA	1946810795
SNP_P4_51980_29711467	NC_021163.1	Ca_kabuli_chr04	29711467	AA	GG	1946810797
SNP_P4_51981_29712681	NC_021163.1	Ca_kabuli_chr04	29712681	AA	GG	1946810800
SNP_P4_51983_29712698	NC_021163.1	Ca_kabuli_chr04	29712698	AA	TT	1946810802
SNP_P4_51985_29712987	NC_021163.1	Ca_kabuli_chr04	29712987	TT	AA	1946810804
SNP_P4_51986_29715689	NC_021163.1	Ca_kabuli_chr04	29715689	TT	GG	1946810806
SNP_P4_51987_29717029	NC_021163.1	Ca_kabuli_chr04	29717029	CC	TT	1946810808
SNP_P4_51988_29717350	NC_021163.1	Ca_kabuli_chr04	29717350	TT	GG	1946810810
SNP_P4_51990_29717594	NC_021163.1	Ca_kabuli_chr04	29717594	TT	CC	1946810812
SNP_P4_51992_29717895	NC_021163.1	Ca_kabuli_chr04	29717895	AA	CC	1946810814
SNP_P4_51993_29718229	NC_021163.1	Ca_kabuli_chr04	29718229	CC	AA	1946810816
SNP_P4_51996_29721805	NC_021163.1	Ca_kabuli_chr04	29721805	AA	TT	1946810818
SNP_P4_51997_29722369	NC_021163.1	Ca_kabuli_chr04	29722369	TT	AA	1946810820
SNP_P4_51999_29722503	NC_021163.1	Ca_kabuli_chr04	29722503	AA	TT	1946810822
SNP_P4_52000_29722567	NC_021163.1	Ca_kabuli_chr04	29722567	AA	GG	1946810824
SNP_P4_52001_29722588	NC_021163.1	Ca_kabuli_chr04	29722588	AA	CC	1946810826
SNP_P4_52002_29722670	NC_021163.1	Ca_kabuli_chr04	29722670	GG	AA	1946810828
SNP_P4_52003_29722975	NC_021163.1	Ca_kabuli_chr04	29722975	AA	GG	1946810830
SNP_P4_52004_29723043	NC_021163.1	Ca_kabuli_chr04	29723043	CC	GG	1946810833
SNP_P4_52005_29723087	NC_021163.1	Ca_kabuli_chr04	29723087	CC	TT	1946810835
SNP_P4_52006_29730241	NC_021163.1	Ca_kabuli_chr04	29730241	TT	CC	1946810837

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_52008_29730269	NC_021163.1	Ca_kabuli_chr04	29730269	GG	AA	1946810841
SNP_P4_52009_29730272	NC_021163.1	Ca_kabuli_chr04	29730272	AA	TT	1946810843
SNP_P4_52010_29730459	NC_021163.1	Ca_kabuli_chr04	29730459	AA	GG	1946810845
SNP_P4_52011_29730504	NC_021163.1	Ca_kabuli_chr04	29730504	GG	AA	1946810847
SNP_P4_52013_29730527	NC_021163.1	Ca_kabuli_chr04	29730527	AA	GG	1946810849
SNP_P4_52014_29730550	NC_021163.1	Ca_kabuli_chr04	29730550	TT	CC	1946810851
SNP_P4_52015_29730562	NC_021163.1	Ca_kabuli_chr04	29730562	AA	GG	1946810853
SNP_P4_52016_29730600	NC_021163.1	Ca_kabuli_chr04	29730600	AA	GG	1946810855
SNP_P4_52017_29747527	NC_021163.1	Ca_kabuli_chr04	29747527	CC	TT	1946810857
SNP_P4_52018_29747528	NC_021163.1	Ca_kabuli_chr04	29747528	AA	GG	1946810859
SNP_P4_52019_29747533	NC_021163.1	Ca_kabuli_chr04	29747533	CC	TT	1946810861
SNP_P4_52020_29747545	NC_021163.1	Ca_kabuli_chr04	29747545	TT	CC	1946810863
SNP_P4_52021_29753553	NC_021163.1	Ca_kabuli_chr04	29753553	GG	AA	1946810865
SNP_P4_52022_29753558	NC_021163.1	Ca_kabuli_chr04	29753558	CC	TT	1946810867
SNP_P4_52023_29754395	NC_021163.1	Ca_kabuli_chr04	29754395	AA	GG	1946810869
SNP_P4_52024_29754398	NC_021163.1	Ca_kabuli_chr04	29754398	AA	GG	1946810871
SNP_P4_52025_29754413	NC_021163.1	Ca_kabuli_chr04	29754413	GG	AA	1946810873
SNP_P4_52026_29754428	NC_021163.1	Ca_kabuli_chr04	29754428	TT	CC	1946810875
SNP_P4_52027_29762927	NC_021163.1	Ca_kabuli_chr04	29762927	TT	AA	1946810877
SNP_P4_52028_29768671	NC_021163.1	Ca_kabuli_chr04	29768671	CC	TT	1946810879
SNP_P4_52030_29769351	NC_021163.1	Ca_kabuli_chr04	29769351	AA	CC	1946810881
SNP_P4_52031_29769366	NC_021163.1	Ca_kabuli_chr04	29769366	AA	CC	1946810883
SNP_P4_52032_29769622	NC_021163.1	Ca_kabuli_chr04	29769622	TT	CC	1946810885
SNP_P4_52033_29769697	NC_021163.1	Ca_kabuli_chr04	29769697	TT	CC	1946810887
SNP_P4_52035_29769926	NC_021163.1	Ca_kabuli_chr04	29769926	GG	AA	1946810889
SNP_P4_52036_29770176	NC_021163.1	Ca_kabuli_chr04	29770176	AA	GG	1946810891
SNP_P4_52037_29770308	NC_021163.1	Ca_kabuli_chr04	29770308	GG	AA	1946810893
SNP_P4_52038_29770370	NC_021163.1	Ca_kabuli_chr04	29770370	CC	TT	1946810896
SNP_P4_52039_29771364	NC_021163.1	Ca_kabuli_chr04	29771364	AA	CC	1946810898
SNP_P4_52040_29771810	NC_021163.1	Ca_kabuli_chr04	29771810	AA	TT	1946810900
SNP_P4_52041_29772304	NC_021163.1	Ca_kabuli_chr04	29772304	CC	TT	1946810902
SNP_P4_52042_29772309	NC_021163.1	Ca_kabuli_chr04	29772309	TT	CC	1946810904
SNP_P4_52043_29772608	NC_021163.1	Ca_kabuli_chr04	29772608	AA	GG	1946810906
SNP_P4_52044_29776665	NC_021163.1	Ca_kabuli_chr04	29776665	TT	GG	1946810908
SNP_P4_52045_29780551	NC_021163.1	Ca_kabuli_chr04	29780551	CC	AA	1946810910
SNP_P4_52046_29784257	NC_021163.1	Ca_kabuli_chr04	29784257	GG	AA	1946810912
SNP_P4_52047_29784488	NC_021163.1	Ca_kabuli_chr04	29784488	AA	CC	1946810914
SNP_P4_52048_29784852	NC_021163.1	Ca_kabuli_chr04	29784852	GG	CC	1946810916
SNP_P4_52049_29785249	NC_021163.1	Ca_kabuli_chr04	29785249	AA	GG	1946810918
SNP_P4_52050_29787504	NC_021163.1	Ca_kabuli_chr04	29787504	TT	CC	1946810920
SNP_P4_52051_29797095	NC_021163.1	Ca_kabuli_chr04	29797095	AA	GG	1946810923

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_52052_29805092	NC_021163.1	Ca_kabuli_chr04	29805092	AA	TT	1946810925
SNP_P4_52054_29816622	NC_021163.1	Ca_kabuli_chr04	29816622	AA	GG	1946810927
SNP_P4_52055_29817139	NC_021163.1	Ca_kabuli_chr04	29817139	GG	AA	1946810929
SNP_P4_52056_29820253	NC_021163.1	Ca_kabuli_chr04	29820253	AA	GG	1946810931
SNP_P4_52057_29821599	NC_021163.1	Ca_kabuli_chr04	29821599	GG	TT	1946810933
SNP_P4_52059_29821918	NC_021163.1	Ca_kabuli_chr04	29821918	GG	TT	1946810935
SNP_P4_52060_29821919	NC_021163.1	Ca_kabuli_chr04	29821919	GG	CC	1946810937
SNP_P4_52061_29821920	NC_021163.1	Ca_kabuli_chr04	29821920	AA	TT	1946810939
SNP_P4_52062_29821989	NC_021163.1	Ca_kabuli_chr04	29821989	GG	AA	1946810941
SNP_P4_52064_29826330	NC_021163.1	Ca_kabuli_chr04	29826330	AA	GG	1946810943
SNP_P4_52065_29826344	NC_021163.1	Ca_kabuli_chr04	29826344	CC	TT	1946810945
SNP_P4_52066_29826375	NC_021163.1	Ca_kabuli_chr04	29826375	CC	AA	1946810947
SNP_P4_52068_29829402	NC_021163.1	Ca_kabuli_chr04	29829402	AA	GG	1946810949
SNP_P4_52069_29829434	NC_021163.1	Ca_kabuli_chr04	29829434	TT	CC	1946810952
SNP_P4_52070_29829992	NC_021163.1	Ca_kabuli_chr04	29829992	CC	AA	1946810954
SNP_P4_52071_29836860	NC_021163.1	Ca_kabuli_chr04	29836860	AA	GG	1946810956
SNP_P4_52072_29837048	NC_021163.1	Ca_kabuli_chr04	29837048	AA	GG	1946810958
SNP_P4_52074_29851520	NC_021163.1	Ca_kabuli_chr04	29851520	AA	GG	1946810960
SNP_P4_52075_29851737	NC_021163.1	Ca_kabuli_chr04	29851737	TT	CC	1946810962
SNP_P4_52076_29856080	NC_021163.1	Ca_kabuli_chr04	29856080	TT	CC	1946810964
SNP_P4_52077_29858538	NC_021163.1	Ca_kabuli_chr04	29858538	AA	TT	1946810966
SNP_P4_52078_29859792	NC_021163.1	Ca_kabuli_chr04	29859792	CC	TT	1946810968
SNP_P4_52079_29859960	NC_021163.1	Ca_kabuli_chr04	29859960	GG	AA	1946810970
SNP_P4_52080_29862605	NC_021163.1	Ca_kabuli_chr04	29862605	GG	TT	1946810972
SNP_P4_52082_29865898	NC_021163.1	Ca_kabuli_chr04	29865898	TT	CC	1946810974
SNP_P4_52083_29866531	NC_021163.1	Ca_kabuli_chr04	29866531	AA	GG	1946810976
SNP_P4_52084_29867012	NC_021163.1	Ca_kabuli_chr04	29867012	GG	AA	1946810979
SNP_P4_52085_29867084	NC_021163.1	Ca_kabuli_chr04	29867084	GG	AA	1946810981
SNP_P4_52086_29867178	NC_021163.1	Ca_kabuli_chr04	29867178	AA	TT	1946810983
SNP_P4_52087_29868331	NC_021163.1	Ca_kabuli_chr04	29868331	TT	CC	1946810985
SNP_P4_52088_29869713	NC_021163.1	Ca_kabuli_chr04	29869713	TT	CC	1946810987
SNP_P4_52089_29871636	NC_021163.1	Ca_kabuli_chr04	29871636	TT	AA	1946810989
SNP_P4_52091_29875712	NC_021163.1	Ca_kabuli_chr04	29875712	GG	TT	1946810991
SNP_P4_52092_29876014	NC_021163.1	Ca_kabuli_chr04	29876014	CC	TT	1946810993
SNP_P4_52093_29876333	NC_021163.1	Ca_kabuli_chr04	29876333	TT	GG	1946810995
SNP_P4_52094_29879553	NC_021163.1	Ca_kabuli_chr04	29879553	TT	AA	1946810997
SNP_P4_52095_29885108	NC_021163.1	Ca_kabuli_chr04	29885108	CC	TT	1946810999
SNP_P4_52096_29886847	NC_021163.1	Ca_kabuli_chr04	29886847	GG	AA	1946811001
SNP_P4_52097_29896349	NC_021163.1	Ca_kabuli_chr04	29896349	GG	CC	1946811003
SNP_P4_52098_29900191	NC_021163.1	Ca_kabuli_chr04	29900191	CC	TT	1946811005
SNP_P4_52099_29900787	NC_021163.1	Ca_kabuli_chr04	29900787	TT	AA	1946811007
SNP_P4_52100_29902511	NC_021163.1	Ca_kabuli_chr04	29902511	TT	GG	1946811010

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_52103_29907710	NC_021163.1	Ca_kabuli_chr04	29907710	AA	GG	1946811014
SNP_P4_52104_29907943	NC_021163.1	Ca_kabuli_chr04	29907943	AA	TT	1946811016
SNP_P4_52105_29907944	NC_021163.1	Ca_kabuli_chr04	29907944	TT	GG	1946811018
SNP_P4_52107_29910626	NC_021163.1	Ca_kabuli_chr04	29910626	AA	GG	1946811021
SNP_P4_52108_29910722	NC_021163.1	Ca_kabuli_chr04	29910722	CC	TT	1946811023
SNP_P4_52114_29915233	NC_021163.1	Ca_kabuli_chr04	29915233	AA	GG	1946811025
SNP_P4_52115_29916905	NC_021163.1	Ca_kabuli_chr04	29916905	AA	GG	1946811027
SNP_P4_52116_29918805	NC_021163.1	Ca_kabuli_chr04	29918805	CC	TT	1946811029
SNP_P4_52118_29930617	NC_021163.1	Ca_kabuli_chr04	29930617	CC	TT	1946811031
SNP_P4_52120_29930748	NC_021163.1	Ca_kabuli_chr04	29930748	CC	TT	1946811033
SNP_P4_52121_29930879	NC_021163.1	Ca_kabuli_chr04	29930879	GG	CC	1946811035
SNP_P4_52122_29930911	NC_021163.1	Ca_kabuli_chr04	29930911	CC	TT	1946811037
SNP_P4_52123_29930916	NC_021163.1	Ca_kabuli_chr04	29930916	AA	CC	1946811039
SNP_P4_52124_29931040	NC_021163.1	Ca_kabuli_chr04	29931040	CC	TT	1946811041
SNP_P4_52126_29931103	NC_021163.1	Ca_kabuli_chr04	29931103	AA	GG	1946811043
SNP_P4_52127_29931250	NC_021163.1	Ca_kabuli_chr04	29931250	AA	GG	1946811045
SNP_P4_52128_29931260	NC_021163.1	Ca_kabuli_chr04	29931260	GG	CC	1946811047
SNP_P4_52129_29931262	NC_021163.1	Ca_kabuli_chr04	29931262	GG	CC	1946811049
SNP_P4_52130_29931270	NC_021163.1	Ca_kabuli_chr04	29931270	GG	CC	1946811051
SNP_P4_52131_29931275	NC_021163.1	Ca_kabuli_chr04	29931275	TT	CC	1946811053
SNP_P4_52132_29931277	NC_021163.1	Ca_kabuli_chr04	29931277	TT	AA	1946811055
SNP_P4_52133_29931283	NC_021163.1	Ca_kabuli_chr04	29931283	AA	CC	1946811057
SNP_P4_52134_29931290	NC_021163.1	Ca_kabuli_chr04	29931290	TT	CC	1946811059
SNP_P4_52135_29931292	NC_021163.1	Ca_kabuli_chr04	29931292	TT	CC	1946811061
SNP_P4_52136_29931296	NC_021163.1	Ca_kabuli_chr04	29931296	TT	CC	1946811063
SNP_P4_52137_29931298	NC_021163.1	Ca_kabuli_chr04	29931298	GG	AA	1946811065
SNP_P4_52139_29932843	NC_021163.1	Ca_kabuli_chr04	29932843	GG	TT	1946811067
SNP_P4_52140_29932852	NC_021163.1	Ca_kabuli_chr04	29932852	TT	CC	1946811069
SNP_P4_52141_29932853	NC_021163.1	Ca_kabuli_chr04	29932853	TT	CC	1946811071
SNP_P4_52142_29932863	NC_021163.1	Ca_kabuli_chr04	29932863	TT	CC	1946811073
SNP_P4_52143_29932885	NC_021163.1	Ca_kabuli_chr04	29932885	AA	CC	1946811075
SNP_P4_52144_29932895	NC_021163.1	Ca_kabuli_chr04	29932895	AA	TT	1946811077
SNP_P4_52145_29933315	NC_021163.1	Ca_kabuli_chr04	29933315	AA	GG	1946811079
SNP_P4_52146_29933323	NC_021163.1	Ca_kabuli_chr04	29933323	TT	CC	1946811082
SNP_P4_52147_29933464	NC_021163.1	Ca_kabuli_chr04	29933464	CC	AA	1946811084
SNP_P4_52148_29933718	NC_021163.1	Ca_kabuli_chr04	29933718	CC	GG	1946811086
SNP_P4_52149_29933734	NC_021163.1	Ca_kabuli_chr04	29933734	AA	CC	1946811088
SNP_P4_52151_29933794	NC_021163.1	Ca_kabuli_chr04	29933794	TT	GG	1946811090
SNP_P4_52152_29933800	NC_021163.1	Ca_kabuli_chr04	29933800	GG	TT	1946811092
SNP_P4_52153_29934081	NC_021163.1	Ca_kabuli_chr04	29934081	TT	CC	1946811094
SNP_P4_52154_29934096	NC_021163.1	Ca_kabuli_chr04	29934096	GG	TT	1946811096

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_52155_29934139	NC_021163.1	Ca_kabuli_chr04	29934139	AA	GG	1946811098
SNP_P4_52156_29934143	NC_021163.1	Ca_kabuli_chr04	29934143	TT	CC	1946811100
SNP_P4_52157_29934176	NC_021163.1	Ca_kabuli_chr04	29934176	GG	CC	1946811102
SNP_P4_52158_29934197	NC_021163.1	Ca_kabuli_chr04	29934197	TT	CC	1946811104
SNP_P4_52159_29934219	NC_021163.1	Ca_kabuli_chr04	29934219	GG	TT	1946811106
SNP_P4_52160_29934232	NC_021163.1	Ca_kabuli_chr04	29934232	TT	GG	1946811108
SNP_P4_52161_29934260	NC_021163.1	Ca_kabuli_chr04	29934260	AA	CC	1946811110
SNP_P4_52162_29934425	NC_021163.1	Ca_kabuli_chr04	29934425	TT	AA	1946811112
SNP_P4_52163_29934437	NC_021163.1	Ca_kabuli_chr04	29934437	TT	CC	1946811114
SNP_P4_52164_29934446	NC_021163.1	Ca_kabuli_chr04	29934446	AA	CC	1946811116
SNP_P4_52165_29934561	NC_021163.1	Ca_kabuli_chr04	29934561	GG	TT	1946811118
SNP_P4_52166_29934638	NC_021163.1	Ca_kabuli_chr04	29934638	CC	TT	1946811120
SNP_P4_52167_29934644	NC_021163.1	Ca_kabuli_chr04	29934644	GG	CC	1946811122
SNP_P4_52168_29934832	NC_021163.1	Ca_kabuli_chr04	29934832	AA	TT	1946811124
SNP_P4_52169_29936504	NC_021163.1	Ca_kabuli_chr04	29936504	TT	CC	1946811126
SNP_P4_52170_29938140	NC_021163.1	Ca_kabuli_chr04	29938140	CC	TT	1946811129
SNP_P4_52171_29939231	NC_021163.1	Ca_kabuli_chr04	29939231	GG	TT	1946811131
SNP_P4_52172_29939273	NC_021163.1	Ca_kabuli_chr04	29939273	AA	GG	1946811133
SNP_P4_52174_29941504	NC_021163.1	Ca_kabuli_chr04	29941504	TT	CC	1946811135
SNP_P4_52175_29942529	NC_021163.1	Ca_kabuli_chr04	29942529	CC	GG	1946811137
SNP_P4_52176_29942545	NC_021163.1	Ca_kabuli_chr04	29942545	TT	CC	1946811139
SNP_P4_52177_29942826	NC_021163.1	Ca_kabuli_chr04	29942826	AA	GG	1946811141
SNP_P4_52178_29943542	NC_021163.1	Ca_kabuli_chr04	29943542	CC	TT	1946811143
SNP_P4_52180_29944641	NC_021163.1	Ca_kabuli_chr04	29944641	GG	CC	1946811145
SNP_P4_52181_29944953	NC_021163.1	Ca_kabuli_chr04	29944953	TT	AA	1946811148
SNP_P4_52182_29944963	NC_021163.1	Ca_kabuli_chr04	29944963	AA	TT	1946811150
SNP_P4_52183_29944992	NC_021163.1	Ca_kabuli_chr04	29944992	AA	TT	1946811152
SNP_P4_52184_29945017	NC_021163.1	Ca_kabuli_chr04	29945017	GG	AA	1946811154
SNP_P4_52186_29945328	NC_021163.1	Ca_kabuli_chr04	29945328	TT	GG	1946811156
SNP_P4_52187_29945329	NC_021163.1	Ca_kabuli_chr04	29945329	GG	AA	1946811158
SNP_P4_52188_29945335	NC_021163.1	Ca_kabuli_chr04	29945335	CC	AA	1946811160
SNP_P4_52189_29945341	NC_021163.1	Ca_kabuli_chr04	29945341	GG	AA	1946811162
SNP_P4_52190_29945825	NC_021163.1	Ca_kabuli_chr04	29945825	TT	AA	1946811164
SNP_P4_52191_29945846	NC_021163.1	Ca_kabuli_chr04	29945846	TT	CC	1946811166
SNP_P4_52193_29960178	NC_021163.1	Ca_kabuli_chr04	29960178	AA	GG	1946811168
SNP_P4_52194_29961708	NC_021163.1	Ca_kabuli_chr04	29961708	CC	TT	1946811170
SNP_P4_52195_29961731	NC_021163.1	Ca_kabuli_chr04	29961731	AA	GG	1946811172
SNP_P4_52196_29962001	NC_021163.1	Ca_kabuli_chr04	29962001	TT	AA	1946811174
SNP_P4_52197_29962014	NC_021163.1	Ca_kabuli_chr04	29962014	AA	TT	1946811176
SNP_P4_52198_29962058	NC_021163.1	Ca_kabuli_chr04	29962058	TT	CC	1946811178
SNP_P4_52199_29962168	NC_021163.1	Ca_kabuli_chr04	29962168	CC	TT	1946811180
SNP_P4_52201_29962215	NC_021163.1	Ca_kabuli_chr04	29962215	CC	AA	1946811182

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_52205_29975310	NC_021163.1	Ca_kabuli_chr04	29975310	AA	GG	1946811186
SNP_P4_52206_29975408	NC_021163.1	Ca_kabuli_chr04	29975408	TT	AA	1946811188
SNP_P4_52207_29975468	NC_021163.1	Ca_kabuli_chr04	29975468	GG	AA	1946811190
SNP_P4_52208_29975691	NC_021163.1	Ca_kabuli_chr04	29975691	AA	GG	1946811192
SNP_P4_52209_29977728	NC_021163.1	Ca_kabuli_chr04	29977728	AA	CC	1946811194
SNP_P4_52210_29977762	NC_021163.1	Ca_kabuli_chr04	29977762	AA	GG	1946811196
SNP_P4_52211_29977799	NC_021163.1	Ca_kabuli_chr04	29977799	GG	TT	1946811198
SNP_P4_52212_29986237	NC_021163.1	Ca_kabuli_chr04	29986237	GG	AA	1946811200
SNP_P4_52213_29986355	NC_021163.1	Ca_kabuli_chr04	29986355	AA	CC	1946811202
SNP_P4_52214_29986395	NC_021163.1	Ca_kabuli_chr04	29986395	CC	AA	1946811204
SNP_P4_52215_29986491	NC_021163.1	Ca_kabuli_chr04	29986491	CC	TT	1946811206
SNP_P4_52217_29986692	NC_021163.1	Ca_kabuli_chr04	29986692	TT	CC	1946811208
SNP_P4_52218_29986722	NC_021163.1	Ca_kabuli_chr04	29986722	CC	TT	1946811210
SNP_P4_52220_29987939	NC_021163.1	Ca_kabuli_chr04	29987939	GG	TT	1946811212
SNP_P4_52221_29987940	NC_021163.1	Ca_kabuli_chr04	29987940	CC	AA	1946811214
SNP_P4_52222_29987948	NC_021163.1	Ca_kabuli_chr04	29987948	AA	CC	1946811216
SNP_P4_52223_29987956	NC_021163.1	Ca_kabuli_chr04	29987956	CC	TT	1946811218
SNP_P4_52224_30009697	NC_021163.1	Ca_kabuli_chr04	30009697	GG	CC	1946811220
SNP_P4_52225_30009701	NC_021163.1	Ca_kabuli_chr04	30009701	AA	CC	1946811222
SNP_P4_52226_30009737	NC_021163.1	Ca_kabuli_chr04	30009737	TT	AA	1946811223
SNP_P4_52227_30009743	NC_021163.1	Ca_kabuli_chr04	30009743	AA	GG	1946811225
SNP_P4_52228_30009744	NC_021163.1	Ca_kabuli_chr04	30009744	GG	AA	1946811227
SNP_P4_52229_30009749	NC_021163.1	Ca_kabuli_chr04	30009749	GG	CC	1946811229
SNP_P4_52230_30010098	NC_021163.1	Ca_kabuli_chr04	30010098	GG	AA	1946811231
SNP_P4_52231_30010107	NC_021163.1	Ca_kabuli_chr04	30010107	AA	CC	1946811233
SNP_P4_52232_30010130	NC_021163.1	Ca_kabuli_chr04	30010130	CC	AA	1946811235
SNP_P4_52233_30010138	NC_021163.1	Ca_kabuli_chr04	30010138	TT	CC	1946811237
SNP_P4_52234_30019723	NC_021163.1	Ca_kabuli_chr04	30019723	TT	AA	1946811239
SNP_P4_52235_30019740	NC_021163.1	Ca_kabuli_chr04	30019740	GG	AA	1946811241
SNP_P4_52236_30019747	NC_021163.1	Ca_kabuli_chr04	30019747	CC	TT	1946811243
SNP_P4_52237_30019768	NC_021163.1	Ca_kabuli_chr04	30019768	AA	GG	1946811245
SNP_P4_52238_30019800	NC_021163.1	Ca_kabuli_chr04	30019800	TT	AA	1946811247
SNP_P4_52239_30019822	NC_021163.1	Ca_kabuli_chr04	30019822	AA	TT	1946811249
SNP_P4_52240_30025676	NC_021163.1	Ca_kabuli_chr04	30025676	TT	CC	1946811251
SNP_P4_52241_30025708	NC_021163.1	Ca_kabuli_chr04	30025708	AA	GG	1946811253
SNP_P4_52242_30025716	NC_021163.1	Ca_kabuli_chr04	30025716	TT	CC	1946811255
SNP_P4_52243_30025751	NC_021163.1	Ca_kabuli_chr04	30025751	CC	TT	1946811257
SNP_P4_52244_30025770	NC_021163.1	Ca_kabuli_chr04	30025770	GG	AA	1946811259
SNP_P4_52245_30025784	NC_021163.1	Ca_kabuli_chr04	30025784	AA	GG	1946811261
SNP_P4_52246_30025785	NC_021163.1	Ca_kabuli_chr04	30025785	CC	TT	1946811263
SNP_P4_52247_30025828	NC_021163.1	Ca_kabuli_chr04	30025828	AA	GG	1946811265

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_52249_30026101	NC_021163.1	Ca_kabuli_chr04	30026101	TT	CC	1946811269
SNP_P4_52250_30026136	NC_021163.1	Ca_kabuli_chr04	30026136	CC	TT	1946811271
SNP_P4_52252_30033028	NC_021163.1	Ca_kabuli_chr04	30033028	AA	CC	1946811273
SNP_P4_52254_30033348	NC_021163.1	Ca_kabuli_chr04	30033348	GG	TT	1946811275
SNP_P4_52257_30046009	NC_021163.1	Ca_kabuli_chr04	30046009	TT	AA	1946811277
SNP_P4_52259_30047715	NC_021163.1	Ca_kabuli_chr04	30047715	AA	TT	1946811279
SNP_P4_52262_30052047	NC_021163.1	Ca_kabuli_chr04	30052047	TT	CC	1946811281
SNP_P4_52264_30055114	NC_021163.1	Ca_kabuli_chr04	30055114	CC	TT	1946811283
SNP_P4_52265_30055144	NC_021163.1	Ca_kabuli_chr04	30055144	AA	GG	1946811285
SNP_P4_52266_30060530	NC_021163.1	Ca_kabuli_chr04	30060530	CC	TT	1946811287
SNP_P4_52267_30069656	NC_021163.1	Ca_kabuli_chr04	30069656	AA	TT	1946811289
SNP_P4_52268_30069662	NC_021163.1	Ca_kabuli_chr04	30069662	TT	CC	1946811291
SNP_P4_52269_30070419	NC_021163.1	Ca_kabuli_chr04	30070419	CC	TT	1946811293
SNP_P4_52270_30070436	NC_021163.1	Ca_kabuli_chr04	30070436	GG	AA	1946811296
SNP_P4_52271_30070729	NC_021163.1	Ca_kabuli_chr04	30070729	CC	TT	1946811298
SNP_P4_52272_30071922	NC_021163.1	Ca_kabuli_chr04	30071922	GG	AA	1946811300
SNP_P4_52274_30072781	NC_021163.1	Ca_kabuli_chr04	30072781	CC	TT	1946811302
SNP_P4_52276_30075401	NC_021163.1	Ca_kabuli_chr04	30075401	CC	AA	1946811304
SNP_P4_52277_30075460	NC_021163.1	Ca_kabuli_chr04	30075460	GG	AA	1946811306
SNP_P4_52278_30076753	NC_021163.1	Ca_kabuli_chr04	30076753	CC	TT	1946811308
SNP_P4_52280_30076986	NC_021163.1	Ca_kabuli_chr04	30076986	GG	AA	1946811310
SNP_P4_52283_30078196	NC_021163.1	Ca_kabuli_chr04	30078196	TT	CC	1946811312
SNP_P4_52284_30078236	NC_021163.1	Ca_kabuli_chr04	30078236	GG	CC	1946811314
SNP_P4_52285_30079692	NC_021163.1	Ca_kabuli_chr04	30079692	AA	GG	1946811317
SNP_P4_52286_30080732	NC_021163.1	Ca_kabuli_chr04	30080732	AA	CC	1946811319
SNP_P4_52287_30081172	NC_021163.1	Ca_kabuli_chr04	30081172	CC	TT	1946811321
SNP_P4_52288_30081415	NC_021163.1	Ca_kabuli_chr04	30081415	GG	AA	1946811323
SNP_P4_52289_30081779	NC_021163.1	Ca_kabuli_chr04	30081779	CC	TT	1946811325
SNP_P4_52291_30081861	NC_021163.1	Ca_kabuli_chr04	30081861	AA	GG	1946811327
SNP_P4_52292_30081876	NC_021163.1	Ca_kabuli_chr04	30081876	TT	GG	1946811330
SNP_P4_52293_30082043	NC_021163.1	Ca_kabuli_chr04	30082043	CC	TT	1946811332
SNP_P4_52295_30084280	NC_021163.1	Ca_kabuli_chr04	30084280	TT	CC	1946811334
SNP_P4_52297_30084962	NC_021163.1	Ca_kabuli_chr04	30084962	GG	CC	1946811336
SNP_P4_52298_30084973	NC_021163.1	Ca_kabuli_chr04	30084973	GG	AA	1946811338
SNP_P4_52299_30085127	NC_021163.1	Ca_kabuli_chr04	30085127	CC	TT	1946811341
SNP_P4_52300_30085214	NC_021163.1	Ca_kabuli_chr04	30085214	TT	CC	1946811343
SNP_P4_52301_30085292	NC_021163.1	Ca_kabuli_chr04	30085292	AA	GG	1946811345
SNP_P4_52302_30085369	NC_021163.1	Ca_kabuli_chr04	30085369	TT	AA	1946811347
SNP_P4_52303_30085711	NC_021163.1	Ca_kabuli_chr04	30085711	GG	AA	1946811349
SNP_P4_52304_30086792	NC_021163.1	Ca_kabuli_chr04	30086792	AA	TT	1946811351
SNP_P4_52305_30086793	NC_021163.1	Ca_kabuli_chr04	30086793	TT	AA	1946811353

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_52307_30086844	NC_021163.1	Ca_kabuli_chr04	30086844	TT	CC	1946811357
SNP_P4_52309_30086961	NC_021163.1	Ca_kabuli_chr04	30086961	AA	CC	1946811359
SNP_P4_52310_30086966	NC_021163.1	Ca_kabuli_chr04	30086966	TT	CC	1946811361
SNP_P4_52311_30086970	NC_021163.1	Ca_kabuli_chr04	30086970	TT	CC	1946811363
SNP_P4_52312_30087126	NC_021163.1	Ca_kabuli_chr04	30087126	GG	AA	1946811365
SNP_P4_52313_30087179	NC_021163.1	Ca_kabuli_chr04	30087179	TT	AA	1946811367
SNP_P4_52314_30087186	NC_021163.1	Ca_kabuli_chr04	30087186	CC	TT	1946811370
SNP_P4_52315_30087209	NC_021163.1	Ca_kabuli_chr04	30087209	AA	GG	1946811372
SNP_P4_52316_30090770	NC_021163.1	Ca_kabuli_chr04	30090770	CC	TT	1946811374
SNP_P4_52317_30090957	NC_021163.1	Ca_kabuli_chr04	30090957	TT	CC	1946811376
SNP_P4_52319_30093491	NC_021163.1	Ca_kabuli_chr04	30093491	TT	CC	1946811378
SNP_P4_52320_30097775	NC_021163.1	Ca_kabuli_chr04	30097775	CC	GG	1946811380
SNP_P4_52321_30097842	NC_021163.1	Ca_kabuli_chr04	30097842	AA	CC	1946811382
SNP_P4_52322_30097869	NC_021163.1	Ca_kabuli_chr04	30097869	GG	AA	1946811384
SNP_P4_52323_30098153	NC_021163.1	Ca_kabuli_chr04	30098153	CC	TT	1946811386
SNP_P4_52324_30098520	NC_021163.1	Ca_kabuli_chr04	30098520	CC	AA	1946811388
SNP_P4_52325_30098835	NC_021163.1	Ca_kabuli_chr04	30098835	AA	TT	1946811390
SNP_P4_52327_30099122	NC_021163.1	Ca_kabuli_chr04	30099122	TT	GG	1946811393
SNP_P4_52328_30099129	NC_021163.1	Ca_kabuli_chr04	30099129	AA	CC	1946811395
SNP_P4_52329_30100260	NC_021163.1	Ca_kabuli_chr04	30100260	GG	TT	1946811397
SNP_P4_52330_30101544	NC_021163.1	Ca_kabuli_chr04	30101544	TT	CC	1946811399
SNP_P4_52331_30101899	NC_021163.1	Ca_kabuli_chr04	30101899	GG	TT	1946811401
SNP_P4_52332_30102116	NC_021163.1	Ca_kabuli_chr04	30102116	AA	GG	1946811403
SNP_P4_52334_30102135	NC_021163.1	Ca_kabuli_chr04	30102135	AA	GG	1946811405
SNP_P4_52335_30102143	NC_021163.1	Ca_kabuli_chr04	30102143	GG	AA	1946811407
SNP_P4_52336_30102196	NC_021163.1	Ca_kabuli_chr04	30102196	TT	CC	1946811409
SNP_P4_52337_30102341	NC_021163.1	Ca_kabuli_chr04	30102341	GG	AA	1946811411
SNP_P4_52339_30102499	NC_021163.1	Ca_kabuli_chr04	30102499	GG	AA	1946811413
SNP_P4_52340_30102500	NC_021163.1	Ca_kabuli_chr04	30102500	CC	TT	1946811415
SNP_P4_52342_30110004	NC_021163.1	Ca_kabuli_chr04	30110004	GG	CC	1946811417
SNP_P4_52343_30111461	NC_021163.1	Ca_kabuli_chr04	30111461	TT	GG	1946811419
SNP_P4_52344_30111496	NC_021163.1	Ca_kabuli_chr04	30111496	GG	TT	1946811421
SNP_P4_52345_30113748	NC_021163.1	Ca_kabuli_chr04	30113748	GG	AA	1946811424
SNP_P4_52346_30113749	NC_021163.1	Ca_kabuli_chr04	30113749	TT	AA	1946811426
SNP_P4_52347_30113760	NC_021163.1	Ca_kabuli_chr04	30113760	CC	TT	1946811428
SNP_P4_52348_30114151	NC_021163.1	Ca_kabuli_chr04	30114151	TT	CC	1946811430
SNP_P4_52349_30114403	NC_021163.1	Ca_kabuli_chr04	30114403	GG	TT	1946811432
SNP_P4_52350_30114433	NC_021163.1	Ca_kabuli_chr04	30114433	CC	TT	1946811434
SNP_P4_52352_30114981	NC_021163.1	Ca_kabuli_chr04	30114981	GG	AA	1946811436
SNP_P4_52353_30115018	NC_021163.1	Ca_kabuli_chr04	30115018	AA	GG	1946811438
SNP_P4_52354_30115437	NC_021163.1	Ca_kabuli_chr04	30115437	GG	TT	1946811440

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_52356_30116163	NC_021163.1	Ca_kabuli_chr04	30116163	TT	CC	1946811444
SNP_P4_52358_30116886	NC_021163.1	Ca_kabuli_chr04	30116886	GG	AA	1946811446
SNP_P4_52359_30117018	NC_021163.1	Ca_kabuli_chr04	30117018	AA	GG	1946811448
SNP_P4_52360_30117023	NC_021163.1	Ca_kabuli_chr04	30117023	CC	GG	1946811450
SNP_P4_52361_30118292	NC_021163.1	Ca_kabuli_chr04	30118292	TT	CC	1946811452
SNP_P4_52362_30118295	NC_021163.1	Ca_kabuli_chr04	30118295	TT	AA	1946811454
SNP_P4_52363_30118642	NC_021163.1	Ca_kabuli_chr04	30118642	GG	AA	1946811456
SNP_P4_52365_30119008	NC_021163.1	Ca_kabuli_chr04	30119008	TT	CC	1946811458
SNP_P4_52366_30119150	NC_021163.1	Ca_kabuli_chr04	30119150	GG	CC	1946811460
SNP_P4_52367_30119241	NC_021163.1	Ca_kabuli_chr04	30119241	AA	GG	1946811462
SNP_P4_52368_30120215	NC_021163.1	Ca_kabuli_chr04	30120215	GG	CC	1946811464
SNP_P4_52369_30120224	NC_021163.1	Ca_kabuli_chr04	30120224	GG	AA	1946811466
SNP_P4_52370_30120254	NC_021163.1	Ca_kabuli_chr04	30120254	GG	TT	1946811469
SNP_P4_52371_30120555	NC_021163.1	Ca_kabuli_chr04	30120555	TT	GG	1946811471
SNP_P4_52372_30120593	NC_021163.1	Ca_kabuli_chr04	30120593	TT	CC	1946811473
SNP_P4_52373_30120651	NC_021163.1	Ca_kabuli_chr04	30120651	TT	CC	1946811475
SNP_P4_52375_30120709	NC_021163.1	Ca_kabuli_chr04	30120709	CC	TT	1946811477
SNP_P4_52376_30121001	NC_021163.1	Ca_kabuli_chr04	30121001	AA	GG	1946811479
SNP_P4_52378_30124792	NC_021163.1	Ca_kabuli_chr04	30124792	GG	CC	1946811481
SNP_P4_52379_30125274	NC_021163.1	Ca_kabuli_chr04	30125274	TT	GG	1946811483
SNP_P4_52380_30125558	NC_021163.1	Ca_kabuli_chr04	30125558	TT	CC	1946811485
SNP_P4_52381_30125619	NC_021163.1	Ca_kabuli_chr04	30125619	GG	AA	1946811487
SNP_P4_52382_30125652	NC_021163.1	Ca_kabuli_chr04	30125652	GG	AA	1946811489
SNP_P4_52383_30125712	NC_021163.1	Ca_kabuli_chr04	30125712	TT	GG	1946811492
SNP_P4_52384_30125718	NC_021163.1	Ca_kabuli_chr04	30125718	CC	TT	1946811494
SNP_P4_52385_30125960	NC_021163.1	Ca_kabuli_chr04	30125960	GG	AA	1946811496
SNP_P4_52386_30126053	NC_021163.1	Ca_kabuli_chr04	30126053	AA	GG	1946811498
SNP_P4_52387_30131663	NC_021163.1	Ca_kabuli_chr04	30131663	AA	GG	1946811500
SNP_P4_52388_30131886	NC_021163.1	Ca_kabuli_chr04	30131886	CC	TT	1946811502
SNP_P4_52390_30132004	NC_021163.1	Ca_kabuli_chr04	30132004	TT	GG	1946811504
SNP_P4_52391_30134582	NC_021163.1	Ca_kabuli_chr04	30134582	TT	AA	1946811506
SNP_P4_52392_30134586	NC_021163.1	Ca_kabuli_chr04	30134586	TT	CC	1946811508
SNP_P4_52393_30134619	NC_021163.1	Ca_kabuli_chr04	30134619	AA	TT	1946811510
SNP_P4_52394_30137402	NC_021163.1	Ca_kabuli_chr04	30137402	CC	TT	1946811512
SNP_P4_52396_30138302	NC_021163.1	Ca_kabuli_chr04	30138302	CC	TT	1946811514
SNP_P4_52397_30138476	NC_021163.1	Ca_kabuli_chr04	30138476	AA	GG	1946811516
SNP_P4_52398_30138520	NC_021163.1	Ca_kabuli_chr04	30138520	GG	AA	1946811518
SNP_P4_52399_30138554	NC_021163.1	Ca_kabuli_chr04	30138554	TT	GG	1946811520
SNP_P4_52400_30138574	NC_021163.1	Ca_kabuli_chr04	30138574	AA	GG	1946811522
SNP_P4_52401_30138656	NC_021163.1	Ca_kabuli_chr04	30138656	GG	AA	1946811524
SNP_P4_52402_30138744	NC_021163.1	Ca_kabuli_chr04	30138744	GG	AA	1946811526

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_52404_30139170	NC_021163.1	Ca_kabuli_chr04	30139170	GG	AA	1946811530
SNP_P4_52406_30140762	NC_021163.1	Ca_kabuli_chr04	30140762	AA	GG	1946811533
SNP_P4_52407_30142340	NC_021163.1	Ca_kabuli_chr04	30142340	TT	AA	1946811535
SNP_P4_52408_30142343	NC_021163.1	Ca_kabuli_chr04	30142343	GG	CC	1946811537
SNP_P4_52409_30142629	NC_021163.1	Ca_kabuli_chr04	30142629	TT	CC	1946811539
SNP_P4_52410_30142884	NC_021163.1	Ca_kabuli_chr04	30142884	GG	TT	1946811541
SNP_P4_52412_30142946	NC_021163.1	Ca_kabuli_chr04	30142946	GG	AA	1946811543
SNP_P4_52413_30144533	NC_021163.1	Ca_kabuli_chr04	30144533	CC	GG	1946811545
SNP_P4_52414_30144535	NC_021163.1	Ca_kabuli_chr04	30144535	AA	GG	1946811547
SNP_P4_52415_30144577	NC_021163.1	Ca_kabuli_chr04	30144577	CC	AA	1946811549
SNP_P4_52416_30144690	NC_021163.1	Ca_kabuli_chr04	30144690	GG	AA	1946811551
SNP_P4_52417_30144734	NC_021163.1	Ca_kabuli_chr04	30144734	TT	CC	1946811553
SNP_P4_52418_30144735	NC_021163.1	Ca_kabuli_chr04	30144735	GG	AA	1946811555
SNP_P4_52419_30144749	NC_021163.1	Ca_kabuli_chr04	30144749	AA	CC	1946811557
SNP_P4_52420_30144778	NC_021163.1	Ca_kabuli_chr04	30144778	TT	CC	1946811559
SNP_P4_52421_30144780	NC_021163.1	Ca_kabuli_chr04	30144780	AA	CC	1946811561
SNP_P4_52422_30146956	NC_021163.1	Ca_kabuli_chr04	30146956	CC	TT	1946811563
SNP_P4_52423_30146974	NC_021163.1	Ca_kabuli_chr04	30146974	TT	CC	1946811565
SNP_P4_52424_30147020	NC_021163.1	Ca_kabuli_chr04	30147020	TT	GG	1946811567
SNP_P4_52425_30147021	NC_021163.1	Ca_kabuli_chr04	30147021	TT	AA	1946811569
SNP_P4_52426_30147073	NC_021163.1	Ca_kabuli_chr04	30147073	TT	GG	1946811571
SNP_P4_52427_30147828	NC_021163.1	Ca_kabuli_chr04	30147828	AA	GG	1946811573
SNP_P4_52428_30149592	NC_021163.1	Ca_kabuli_chr04	30149592	GG	CC	1946811575
SNP_P4_52429_30149596	NC_021163.1	Ca_kabuli_chr04	30149596	GG	AA	1946811577
SNP_P4_52430_30149705	NC_021163.1	Ca_kabuli_chr04	30149705	TT	AA	1946811579
SNP_P4_52431_30151143	NC_021163.1	Ca_kabuli_chr04	30151143	TT	AA	1946811581
SNP_P4_52432_30151416	NC_021163.1	Ca_kabuli_chr04	30151416	GG	AA	1946811583
SNP_P4_52433_30154958	NC_021163.1	Ca_kabuli_chr04	30154958	AA	GG	1946811585
SNP_P4_52434_30155517	NC_021163.1	Ca_kabuli_chr04	30155517	GG	AA	1946811587
SNP_P4_52435_30170932	NC_021163.1	Ca_kabuli_chr04	30170932	TT	CC	1946811589
SNP_P4_52436_30171323	NC_021163.1	Ca_kabuli_chr04	30171323	AA	GG	1946811591
SNP_P4_52437_30171837	NC_021163.1	Ca_kabuli_chr04	30171837	GG	AA	1946811593
SNP_P4_52438_30171902	NC_021163.1	Ca_kabuli_chr04	30171902	CC	GG	1946811595
SNP_P4_52440_30172049	NC_021163.1	Ca_kabuli_chr04	30172049	AA	GG	1946811597
SNP_P4_52441_30172064	NC_021163.1	Ca_kabuli_chr04	30172064	CC	TT	1946811599
SNP_P4_52442_30172144	NC_021163.1	Ca_kabuli_chr04	30172144	AA	GG	1946811601
SNP_P4_52443_30172214	NC_021163.1	Ca_kabuli_chr04	30172214	GG	AA	1946811603
SNP_P4_52444_30172227	NC_021163.1	Ca_kabuli_chr04	30172227	GG	AA	1946811605
SNP_P4_52446_30173816	NC_021163.1	Ca_kabuli_chr04	30173816	GG	AA	1946811607
SNP_P4_52447_30175444	NC_021163.1	Ca_kabuli_chr04	30175444	AA	CC	1946811609
SNP_P4_52448_30175579	NC_021163.1	Ca_kabuli_chr04	30175579	TT	CC	1946811611

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_52450_30175858	NC_021163.1	Ca_kabuli_chr04	30175858	GG	AA	1946811615
SNP_P4_52451_30175859	NC_021163.1	Ca_kabuli_chr04	30175859	TT	CC	1946811617
SNP_P4_52452_30175883	NC_021163.1	Ca_kabuli_chr04	30175883	GG	AA	1946811619
SNP_P4_52453_30175884	NC_021163.1	Ca_kabuli_chr04	30175884	TT	CC	1946811621
SNP_P4_52454_30175889	NC_021163.1	Ca_kabuli_chr04	30175889	GG	AA	1946811623
SNP_P4_52455_30175903	NC_021163.1	Ca_kabuli_chr04	30175903	CC	GG	1946811625
SNP_P4_52456_30175913	NC_021163.1	Ca_kabuli_chr04	30175913	CC	GG	1946811627
SNP_P4_52457_30175921	NC_021163.1	Ca_kabuli_chr04	30175921	CC	TT	1946811629
SNP_P4_52458_30175930	NC_021163.1	Ca_kabuli_chr04	30175930	AA	CC	1946811631
SNP_P4_52459_30176165	NC_021163.1	Ca_kabuli_chr04	30176165	AA	CC	1946811633
SNP_P4_52460_30176180	NC_021163.1	Ca_kabuli_chr04	30176180	AA	TT	1946811635
SNP_P4_52461_30176228	NC_021163.1	Ca_kabuli_chr04	30176228	TT	CC	1946811638
SNP_P4_52462_30176229	NC_021163.1	Ca_kabuli_chr04	30176229	GG	AA	1946811640
SNP_P4_52463_30176490	NC_021163.1	Ca_kabuli_chr04	30176490	CC	TT	1946811642
SNP_P4_52464_30176919	NC_021163.1	Ca_kabuli_chr04	30176919	CC	TT	1946811644
SNP_P4_52465_30176922	NC_021163.1	Ca_kabuli_chr04	30176922	CC	TT	1946811646
SNP_P4_52466_30177005	NC_021163.1	Ca_kabuli_chr04	30177005	CC	TT	1946811648
SNP_P4_52467_30177296	NC_021163.1	Ca_kabuli_chr04	30177296	TT	GG	1946811650
SNP_P4_52469_30178200	NC_021163.1	Ca_kabuli_chr04	30178200	AA	CC	1946811652
SNP_P4_52470_30178201	NC_021163.1	Ca_kabuli_chr04	30178201	AA	GG	1946811654
SNP_P4_52471_30180469	NC_021163.1	Ca_kabuli_chr04	30180469	AA	GG	1946811656
SNP_P4_52472_30183667	NC_021163.1	Ca_kabuli_chr04	30183667	TT	AA	1946811658
SNP_P4_52473_30183685	NC_021163.1	Ca_kabuli_chr04	30183685	AA	GG	1946811660
SNP_P4_52474_30184196	NC_021163.1	Ca_kabuli_chr04	30184196	CC	TT	1946811662
SNP_P4_52475_30184445	NC_021163.1	Ca_kabuli_chr04	30184445	AA	CC	1946811664
SNP_P4_52476_30184462	NC_021163.1	Ca_kabuli_chr04	30184462	TT	CC	1946811666
SNP_P4_52478_30184825	NC_021163.1	Ca_kabuli_chr04	30184825	CC	AA	1946811668
SNP_P4_52479_30184868	NC_021163.1	Ca_kabuli_chr04	30184868	TT	GG	1946811670
SNP_P4_52480_30184876	NC_021163.1	Ca_kabuli_chr04	30184876	CC	GG	1946811672
SNP_P4_52481_30184908	NC_021163.1	Ca_kabuli_chr04	30184908	TT	CC	1946811675
SNP_P4_52482_30185060	NC_021163.1	Ca_kabuli_chr04	30185060	TT	CC	1946811677
SNP_P4_52483_30185089	NC_021163.1	Ca_kabuli_chr04	30185089	CC	TT	1946811680
SNP_P4_52484_30185156	NC_021163.1	Ca_kabuli_chr04	30185156	CC	AA	1946811682
SNP_P4_52485_30188081	NC_021163.1	Ca_kabuli_chr04	30188081	TT	CC	1946811684
SNP_P4_52486_30188085	NC_021163.1	Ca_kabuli_chr04	30188085	TT	GG	1946811686
SNP_P4_52487_30188122	NC_021163.1	Ca_kabuli_chr04	30188122	GG	TT	1946811688
SNP_P4_52488_30188128	NC_021163.1	Ca_kabuli_chr04	30188128	GG	AA	1946811690
SNP_P4_52489_30188141	NC_021163.1	Ca_kabuli_chr04	30188141	AA	GG	1946811692
SNP_P4_52491_30188599	NC_021163.1	Ca_kabuli_chr04	30188599	TT	CC	1946811694
SNP_P4_52492_30188608	NC_021163.1	Ca_kabuli_chr04	30188608	CC	TT	1946811696
SNP_P4_52493_30188612	NC_021163.1	Ca_kabuli_chr04	30188612	TT	AA	1946811698

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_52495_30188968	NC_021163.1	Ca_kabuli_chr04	30188968	AA	TT	1946811702
SNP_P4_52497_30189086	NC_021163.1	Ca_kabuli_chr04	30189086	AA	GG	1946811704
SNP_P4_52498_30192246	NC_021163.1	Ca_kabuli_chr04	30192246	TT	CC	1946811706
SNP_P4_52499_30192256	NC_021163.1	Ca_kabuli_chr04	30192256	CC	TT	1946811708
SNP_P4_52500_30192295	NC_021163.1	Ca_kabuli_chr04	30192295	CC	TT	1946811710
SNP_P4_52501_30193139	NC_021163.1	Ca_kabuli_chr04	30193139	CC	AA	1946811712
SNP_P4_52502_30195101	NC_021163.1	Ca_kabuli_chr04	30195101	CC	TT	1946811714
SNP_P4_52503_30195142	NC_021163.1	Ca_kabuli_chr04	30195142	AA	TT	1946811716
SNP_P4_52504_30195344	NC_021163.1	Ca_kabuli_chr04	30195344	AA	CC	1946811718
SNP_P4_52505_30195354	NC_021163.1	Ca_kabuli_chr04	30195354	GG	TT	1946811720
SNP_P4_52506_30195378	NC_021163.1	Ca_kabuli_chr04	30195378	AA	CC	1946811722
SNP_P4_52507_30195386	NC_021163.1	Ca_kabuli_chr04	30195386	CC	TT	1946811724
SNP_P4_52508_30195502	NC_021163.1	Ca_kabuli_chr04	30195502	GG	AA	1946811726
SNP_P4_52509_30195531	NC_021163.1	Ca_kabuli_chr04	30195531	CC	TT	1946811728
SNP_P4_52510_30195867	NC_021163.1	Ca_kabuli_chr04	30195867	TT	CC	1946811730
SNP_P4_52511_30195868	NC_021163.1	Ca_kabuli_chr04	30195868	GG	TT	1946811732
SNP_P4_52512_30195878	NC_021163.1	Ca_kabuli_chr04	30195878	CC	TT	1946811734
SNP_P4_52513_30195905	NC_021163.1	Ca_kabuli_chr04	30195905	GG	AA	1946811736
SNP_P4_52514_30196378	NC_021163.1	Ca_kabuli_chr04	30196378	CC	TT	1946811738
SNP_P4_52515_30196633	NC_021163.1	Ca_kabuli_chr04	30196633	CC	AA	1946811740
SNP_P4_52517_30196835	NC_021163.1	Ca_kabuli_chr04	30196835	TT	AA	1946811742
SNP_P4_52518_30196868	NC_021163.1	Ca_kabuli_chr04	30196868	TT	CC	1946811745
SNP_P4_52519_30196880	NC_021163.1	Ca_kabuli_chr04	30196880	TT	AA	1946811747
SNP_P4_52520_30196919	NC_021163.1	Ca_kabuli_chr04	30196919	CC	AA	1946811749
SNP_P4_52521_30196926	NC_021163.1	Ca_kabuli_chr04	30196926	AA	GG	1946811751
SNP_P4_52522_30197018	NC_021163.1	Ca_kabuli_chr04	30197018	AA	CC	1946811753
SNP_P4_52523_30197036	NC_021163.1	Ca_kabuli_chr04	30197036	GG	AA	1946811755
SNP_P4_52524_30197056	NC_021163.1	Ca_kabuli_chr04	30197056	CC	AA	1946811757
SNP_P4_52525_30197134	NC_021163.1	Ca_kabuli_chr04	30197134	GG	AA	1946811759
SNP_P4_52526_30197160	NC_021163.1	Ca_kabuli_chr04	30197160	TT	CC	1946811761
SNP_P4_52528_30197434	NC_021163.1	Ca_kabuli_chr04	30197434	TT	AA	1946811763
SNP_P4_52529_30197564	NC_021163.1	Ca_kabuli_chr04	30197564	CC	TT	1946811765
SNP_P4_52530_30197587	NC_021163.1	Ca_kabuli_chr04	30197587	TT	CC	1946811767
SNP_P4_52531_30197614	NC_021163.1	Ca_kabuli_chr04	30197614	AA	GG	1946811769
SNP_P4_52532_30197705	NC_021163.1	Ca_kabuli_chr04	30197705	GG	TT	1946811771
SNP_P4_52533_30197767	NC_021163.1	Ca_kabuli_chr04	30197767	CC	AA	1946811773
SNP_P4_52534_30197968	NC_021163.1	Ca_kabuli_chr04	30197968	GG	AA	1946811775
SNP_P4_52535_30197991	NC_021163.1	Ca_kabuli_chr04	30197991	TT	CC	1946811777
SNP_P4_52536_30198347	NC_021163.1	Ca_kabuli_chr04	30198347	AA	TT	1946811779
SNP_P4_52537_30198487	NC_021163.1	Ca_kabuli_chr04	30198487	GG	AA	1946811782
SNP_P4_52538_30198533	NC_021163.1	Ca_kabuli_chr04	30198533	TT	CC	1946811784

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_52540_30198601	NC_021163.1	Ca_kabuli_chr04	30198601	CC	TT	1946811788
SNP_P4_52541_30198636	NC_021163.1	Ca_kabuli_chr04	30198636	GG	TT	1946811790
SNP_P4_52542_30198651	NC_021163.1	Ca_kabuli_chr04	30198651	GG	CC	1946811792
SNP_P4_52543_30198829	NC_021163.1	Ca_kabuli_chr04	30198829	GG	AA	1946811794
SNP_P4_52544_30198976	NC_021163.1	Ca_kabuli_chr04	30198976	CC	TT	1946811796
SNP_P4_52545_30199243	NC_021163.1	Ca_kabuli_chr04	30199243	TT	AA	1946811798
SNP_P4_52546_30199273	NC_021163.1	Ca_kabuli_chr04	30199273	AA	TT	1946811800
SNP_P4_52547_30199516	NC_021163.1	Ca_kabuli_chr04	30199516	CC	AA	1946811802
SNP_P4_52548_30199527	NC_021163.1	Ca_kabuli_chr04	30199527	TT	CC	1946811804
SNP_P4_52549_30199563	NC_021163.1	Ca_kabuli_chr04	30199563	CC	TT	1946811806
SNP_P4_52550_30199602	NC_021163.1	Ca_kabuli_chr04	30199602	CC	AA	1946811808
SNP_P4_52551_30199686	NC_021163.1	Ca_kabuli_chr04	30199686	TT	CC	1946811810
SNP_P4_52552_30199728	NC_021163.1	Ca_kabuli_chr04	30199728	TT	GG	1946811812
SNP_P4_52553_30199753	NC_021163.1	Ca_kabuli_chr04	30199753	TT	CC	1946811814
SNP_P4_52554_30199829	NC_021163.1	Ca_kabuli_chr04	30199829	GG	AA	1946811816
SNP_P4_52555_30199847	NC_021163.1	Ca_kabuli_chr04	30199847	TT	CC	1946811818
SNP_P4_52556_30199870	NC_021163.1	Ca_kabuli_chr04	30199870	GG	AA	1946811820
SNP_P4_52557_30200126	NC_021163.1	Ca_kabuli_chr04	30200126	CC	TT	1946811822
SNP_P4_52558_30200141	NC_021163.1	Ca_kabuli_chr04	30200141	TT	CC	1946811824
SNP_P4_52559_30200385	NC_021163.1	Ca_kabuli_chr04	30200385	GG	AA	1946811826
SNP_P4_52560_30200400	NC_021163.1	Ca_kabuli_chr04	30200400	AA	GG	1946811828
SNP_P4_52561_30200404	NC_021163.1	Ca_kabuli_chr04	30200404	GG	AA	1946811830
SNP_P4_52562_30200425	NC_021163.1	Ca_kabuli_chr04	30200425	GG	TT	1946811832
SNP_P4_52563_30200978	NC_021163.1	Ca_kabuli_chr04	30200978	CC	TT	1946811834
SNP_P4_52564_30201043	NC_021163.1	Ca_kabuli_chr04	30201043	TT	AA	1946811836
SNP_P4_52565_30201393	NC_021163.1	Ca_kabuli_chr04	30201393	TT	CC	1946811838
SNP_P4_52566_30202710	NC_021163.1	Ca_kabuli_chr04	30202710	CC	TT	1946811840
SNP_P4_52567_30203041	NC_021163.1	Ca_kabuli_chr04	30203041	CC	TT	1946811842
SNP_P4_52568_30204280	NC_021163.1	Ca_kabuli_chr04	30204280	AA	TT	1946811844
SNP_P4_52569_30204300	NC_021163.1	Ca_kabuli_chr04	30204300	AA	GG	1946811846
SNP_P4_52570_30204303	NC_021163.1	Ca_kabuli_chr04	30204303	GG	AA	1946811848
SNP_P4_52571_30204308	NC_021163.1	Ca_kabuli_chr04	30204308	GG	CC	1946811850
SNP_P4_52572_30204329	NC_021163.1	Ca_kabuli_chr04	30204329	GG	TT	1946811852
SNP_P4_52573_30204334	NC_021163.1	Ca_kabuli_chr04	30204334	GG	TT	1946811854
SNP_P4_52575_30207459	NC_021163.1	Ca_kabuli_chr04	30207459	AA	GG	1946811856
SNP_P4_52576_30210756	NC_021163.1	Ca_kabuli_chr04	30210756	CC	TT	1946811858
SNP_P4_52577_30211423	NC_021163.1	Ca_kabuli_chr04	30211423	TT	CC	1946811860
SNP_P4_52579_30211689	NC_021163.1	Ca_kabuli_chr04	30211689	CC	TT	1946811862
SNP_P4_52580_30211709	NC_021163.1	Ca_kabuli_chr04	30211709	GG	CC	1946811864
SNP_P4_52581_30211746	NC_021163.1	Ca_kabuli_chr04	30211746	GG	AA	1946811866
SNP_P4_52582_30211785	NC_021163.1	Ca_kabuli_chr04	30211785	AA	GG	1946811868

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_52585_30214012	NC_021163.1	Ca_kabuli_chr04	30214012	TT	CC	1946811872
SNP_P4_52586_30214343	NC_021163.1	Ca_kabuli_chr04	30214343	TT	CC	1946811874
SNP_P4_52587_30214573	NC_021163.1	Ca_kabuli_chr04	30214573	TT	CC	1946811876
SNP_P4_52588_30218625	NC_021163.1	Ca_kabuli_chr04	30218625	AA	CC	1946811878
SNP_P4_52589_30218953	NC_021163.1	Ca_kabuli_chr04	30218953	TT	AA	1946811880
SNP_P4_52590_30218954	NC_021163.1	Ca_kabuli_chr04	30218954	AA	TT	1946811882
SNP_P4_52591_30218995	NC_021163.1	Ca_kabuli_chr04	30218995	CC	AA	1946811884
SNP_P4_52592_30219007	NC_021163.1	Ca_kabuli_chr04	30219007	AA	GG	1946811886
SNP_P4_52593_30219016	NC_021163.1	Ca_kabuli_chr04	30219016	AA	GG	1946811889
SNP_P4_52594_30221176	NC_021163.1	Ca_kabuli_chr04	30221176	AA	TT	1946811891
SNP_P4_52595_30224500	NC_021163.1	Ca_kabuli_chr04	30224500	TT	AA	1946811893
SNP_P4_52597_30225228	NC_021163.1	Ca_kabuli_chr04	30225228	AA	TT	1946811895
SNP_P4_52598_30225572	NC_021163.1	Ca_kabuli_chr04	30225572	TT	AA	1946811897
SNP_P4_52599_30226132	NC_021163.1	Ca_kabuli_chr04	30226132	GG	AA	1946811899
SNP_P4_52600_30228076	NC_021163.1	Ca_kabuli_chr04	30228076	TT	AA	1946811901
SNP_P4_52601_30228425	NC_021163.1	Ca_kabuli_chr04	30228425	CC	TT	1946811903
SNP_P4_52602_30228728	NC_021163.1	Ca_kabuli_chr04	30228728	CC	TT	1946811905
SNP_P4_52604_30230544	NC_021163.1	Ca_kabuli_chr04	30230544	CC	TT	1946811907
SNP_P4_52606_30231013	NC_021163.1	Ca_kabuli_chr04	30231013	GG	CC	1946811909
SNP_P4_52608_30237365	NC_021163.1	Ca_kabuli_chr04	30237365	TT	CC	1946811911
SNP_P4_52609_30237413	NC_021163.1	Ca_kabuli_chr04	30237413	TT	AA	1946811913
SNP_P4_52611_30240355	NC_021163.1	Ca_kabuli_chr04	30240355	CC	TT	1946811915
SNP_P4_52613_30252352	NC_021163.1	Ca_kabuli_chr04	30252352	CC	TT	1946811917
SNP_P4_52615_30257214	NC_021163.1	Ca_kabuli_chr04	30257214	TT	CC	1946811920
SNP_P4_52618_30268087	NC_021163.1	Ca_kabuli_chr04	30268087	GG	AA	1946811922
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SNP_P4_52620_30278622	NC_021163.1	Ca_kabuli_chr04	30278622	TT	GG	1946811926
SNP_P4_52621_30279102	NC_021163.1	Ca_kabuli_chr04	30279102	CC	TT	1946811928
SNP_P4_52622_30279441	NC_021163.1	Ca_kabuli_chr04	30279441	CC	TT	1946811930
SNP_P4_52623_30279892	NC_021163.1	Ca_kabuli_chr04	30279892	AA	GG	1946811932
SNP_P4_52624_30285178	NC_021163.1	Ca_kabuli_chr04	30285178	GG	AA	1946811934
SNP_P4_52625_30286155	NC_021163.1	Ca_kabuli_chr04	30286155	AA	TT	1946811936
SNP_P4_52626_30286198	NC_021163.1	Ca_kabuli_chr04	30286198	CC	GG	1946811938
SNP_P4_52627_30286777	NC_021163.1	Ca_kabuli_chr04	30286777	CC	AA	1946811940
SNP_P4_52628_30289709	NC_021163.1	Ca_kabuli_chr04	30289709	GG	TT	1946811942
SNP_P4_52629_30290002	NC_021163.1	Ca_kabuli_chr04	30290002	AA	GG	1946811944
SNP_P4_52630_30295020	NC_021163.1	Ca_kabuli_chr04	30295020	GG	TT	1946811946
SNP_P4_52631_30295021	NC_021163.1	Ca_kabuli_chr04	30295021	AA	TT	1946811948
SNP_P4_52632_30296406	NC_021163.1	Ca_kabuli_chr04	30296406	CC	TT	1946811950
SNP_P4_52634_30316983	NC_021163.1	Ca_kabuli_chr04	30316983	GG	CC	1946811953
SNP_P4_52635_30319440	NC_021163.1	Ca_kabuli_chr04	30319440	GG	TT	1946811955

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_52640_30338778	NC_021163.1	Ca_kabuli_chr04	30338778	TT	AA	1946811961
SNP_P4_52641_30351183	NC_021163.1	Ca_kabuli_chr04	30351183	GG	AA	1946811963
SNP_P4_52643_30351930	NC_021163.1	Ca_kabuli_chr04	30351930	TT	AA	1946811965
SNP_P4_52644_30352790	NC_021163.1	Ca_kabuli_chr04	30352790	CC	GG	1946811967
SNP_P4_52645_30355179	NC_021163.1	Ca_kabuli_chr04	30355179	GG	AA	1946811969
SNP_P4_52646_30361089	NC_021163.1	Ca_kabuli_chr04	30361089	CC	TT	1946811971
SNP_P4_52647_30361420	NC_021163.1	Ca_kabuli_chr04	30361420	TT	CC	1946811973
SNP_P4_52648_30361445	NC_021163.1	Ca_kabuli_chr04	30361445	AA	CC	1946811975
SNP_P4_52649_30361458	NC_021163.1	Ca_kabuli_chr04	30361458	GG	TT	1946811977
SNP_P4_52650_30361494	NC_021163.1	Ca_kabuli_chr04	30361494	AA	CC	1946811979
SNP_P4_52651_30363167	NC_021163.1	Ca_kabuli_chr04	30363167	GG	AA	1946811982
SNP_P4_52652_30363192	NC_021163.1	Ca_kabuli_chr04	30363192	CC	TT	1946811984
SNP_P4_52653_30366411	NC_021163.1	Ca_kabuli_chr04	30366411	TT	CC	1946811986
SNP_P4_52654_30368207	NC_021163.1	Ca_kabuli_chr04	30368207	TT	CC	1946811988
SNP_P4_52655_30369181	NC_021163.1	Ca_kabuli_chr04	30369181	GG	AA	1946811990
SNP_P4_52657_30376885	NC_021163.1	Ca_kabuli_chr04	30376885	TT	CC	1946811992
SNP_P4_52658_30377717	NC_021163.1	Ca_kabuli_chr04	30377717	AA	GG	1946811994
SNP_P4_52659_30379297	NC_021163.1	Ca_kabuli_chr04	30379297	AA	GG	1946811996
SNP_P4_52660_30380825	NC_021163.1	Ca_kabuli_chr04	30380825	CC	TT	1946811998
SNP_P4_52662_30384169	NC_021163.1	Ca_kabuli_chr04	30384169	GG	TT	1946812000
SNP_P4_52663_30390717	NC_021163.1	Ca_kabuli_chr04	30390717	GG	TT	1946812002
SNP_P4_52664_30390747	NC_021163.1	Ca_kabuli_chr04	30390747	AA	TT	1946812004
SNP_P4_52665_30398511	NC_021163.1	Ca_kabuli_chr04	30398511	TT	CC	1946812006
SNP_P4_52666_30398521	NC_021163.1	Ca_kabuli_chr04	30398521	AA	GG	1946812008
SNP_P4_52667_30398634	NC_021163.1	Ca_kabuli_chr04	30398634	AA	GG	1946812010
SNP_P4_52668_30398650	NC_021163.1	Ca_kabuli_chr04	30398650	AA	CC	1946812012
SNP_P4_52669_30398763	NC_021163.1	Ca_kabuli_chr04	30398763	AA	GG	1946812014
SNP_P4_52670_30398803	NC_021163.1	Ca_kabuli_chr04	30398803	AA	GG	1946812016
SNP_P4_52671_30398817	NC_021163.1	Ca_kabuli_chr04	30398817	TT	CC	1946812018
SNP_P4_52672_30398834	NC_021163.1	Ca_kabuli_chr04	30398834	GG	AA	1946812020
SNP_P4_52673_30398936	NC_021163.1	Ca_kabuli_chr04	30398936	GG	CC	1946812022
SNP_P4_52675_30405123	NC_021163.1	Ca_kabuli_chr04	30405123	CC	TT	1946812024
SNP_P4_52676_30406660	NC_021163.1	Ca_kabuli_chr04	30406660	CC	GG	1946812026
SNP_P4_52677_30408409	NC_021163.1	Ca_kabuli_chr04	30408409	GG	AA	1946812028
SNP_P4_52680_30408601	NC_021163.1	Ca_kabuli_chr04	30408601	AA	GG	1946812030
SNP_P4_52683_30408671	NC_021163.1	Ca_kabuli_chr04	30408671	TT	AA	1946812032
SNP_P4_52684_30408673	NC_021163.1	Ca_kabuli_chr04	30408673	CC	AA	1946812034
SNP_P4_52686_30408895	NC_021163.1	Ca_kabuli_chr04	30408895	GG	AA	1946812036
SNP_P4_52687_30415032	NC_021163.1	Ca_kabuli_chr04	30415032	GG	CC	1946812038
SNP_P4_52688_30418096	NC_021163.1	Ca_kabuli_chr04	30418096	GG	AA	1946812040

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_52689_30418363	NC_021163.1	Ca_kabuli_chr04	30418363	GG	AA	1946812042
SNP_P4_52690_30419007	NC_021163.1	Ca_kabuli_chr04	30419007	TT	CC	1946812044
SNP_P4_52691_30421011	NC_021163.1	Ca_kabuli_chr04	30421011	TT	CC	1946812046
SNP_P4_52692_30421196	NC_021163.1	Ca_kabuli_chr04	30421196	GG	TT	1946812048
SNP_P4_52693_30421284	NC_021163.1	Ca_kabuli_chr04	30421284	CC	AA	1946812050
SNP_P4_52694_30421377	NC_021163.1	Ca_kabuli_chr04	30421377	GG	CC	1946812052
SNP_P4_52695_30422233	NC_021163.1	Ca_kabuli_chr04	30422233	AA	CC	1946812054
SNP_P4_52696_30422240	NC_021163.1	Ca_kabuli_chr04	30422240	AA	TT	1946812056
SNP_P4_52697_30422279	NC_021163.1	Ca_kabuli_chr04	30422279	TT	CC	1946812059
SNP_P4_52698_30422713	NC_021163.1	Ca_kabuli_chr04	30422713	TT	AA	1946812061
SNP_P4_52699_30423233	NC_021163.1	Ca_kabuli_chr04	30423233	AA	GG	1946812063
SNP_P4_52700_30423277	NC_021163.1	Ca_kabuli_chr04	30423277	AA	GG	1946812065
SNP_P4_52701_30423299	NC_021163.1	Ca_kabuli_chr04	30423299	AA	GG	1946812067
SNP_P4_52702_30423555	NC_021163.1	Ca_kabuli_chr04	30423555	AA	TT	1946812069
SNP_P4_52703_30423579	NC_021163.1	Ca_kabuli_chr04	30423579	CC	AA	1946812071
SNP_P4_52704_30423580	NC_021163.1	Ca_kabuli_chr04	30423580	CC	TT	1946812073
SNP_P4_52705_30423751	NC_021163.1	Ca_kabuli_chr04	30423751	TT	CC	1946812075
SNP_P4_52706_30423757	NC_021163.1	Ca_kabuli_chr04	30423757	TT	CC	1946812077
SNP_P4_52707_30423897	NC_021163.1	Ca_kabuli_chr04	30423897	CC	TT	1946812080
SNP_P4_52708_30424068	NC_021163.1	Ca_kabuli_chr04	30424068	AA	CC	1946812082
SNP_P4_52709_30424076	NC_021163.1	Ca_kabuli_chr04	30424076	CC	TT	1946812084
SNP_P4_52710_30424138	NC_021163.1	Ca_kabuli_chr04	30424138	TT	CC	1946812086
SNP_P4_52711_30424185	NC_021163.1	Ca_kabuli_chr04	30424185	AA	GG	1946812088
SNP_P4_52712_30424353	NC_021163.1	Ca_kabuli_chr04	30424353	CC	AA	1946812090
SNP_P4_52713_30424356	NC_021163.1	Ca_kabuli_chr04	30424356	CC	TT	1946812092
SNP_P4_52714_30426068	NC_021163.1	Ca_kabuli_chr04	30426068	TT	AA	1946812094
SNP_P4_52715_30426197	NC_021163.1	Ca_kabuli_chr04	30426197	TT	AA	1946812096
SNP_P4_52716_30426290	NC_021163.1	Ca_kabuli_chr04	30426290	CC	TT	1946812098
SNP_P4_52717_30426393	NC_021163.1	Ca_kabuli_chr04	30426393	AA	GG	1946812100
SNP_P4_52719_30426534	NC_021163.1	Ca_kabuli_chr04	30426534	GG	TT	1946812102
SNP_P4_52720_30426541	NC_021163.1	Ca_kabuli_chr04	30426541	TT	GG	1946812105
SNP_P4_52721_30429137	NC_021163.1	Ca_kabuli_chr04	30429137	CC	TT	1946812107
SNP_P4_52724_30436343	NC_021163.1	Ca_kabuli_chr04	30436343	GG	CC	1946812109
SNP_P4_52725_30436732	NC_021163.1	Ca_kabuli_chr04	30436732	GG	TT	1946812111
SNP_P4_52726_30440949	NC_021163.1	Ca_kabuli_chr04	30440949	CC	AA	1946812113
SNP_P4_52727_30445444	NC_021163.1	Ca_kabuli_chr04	30445444	TT	CC	1946812115
SNP_P4_52728_30445481	NC_021163.1	Ca_kabuli_chr04	30445481	TT	CC	1946812118
SNP_P4_52731_30449278	NC_021163.1	Ca_kabuli_chr04	30449278	TT	GG	1946812120
SNP_P4_52733_30452671	NC_021163.1	Ca_kabuli_chr04	30452671	TT	CC	1946812122
SNP_P4_52734_30452673	NC_021163.1	Ca_kabuli_chr04	30452673	GG	TT	1946812124
SNP_P4_52735_30453958	NC_021163.1	Ca_kabuli_chr04	30453958	AA	GG	1946812126
SNP_P4_52738_30457310	NC_021163.1	Ca_kabuli_chr04	30457310	CC	TT	1946812128

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_52745_30465156	NC_021163.1	Ca_kabuli_chr04	30465156	TT	AA	1946812133
SNP_P4_52746_30466072	NC_021163.1	Ca_kabuli_chr04	30466072	TT	CC	1946812135
SNP_P4_52748_30466124	NC_021163.1	Ca_kabuli_chr04	30466124	CC	TT	1946812137
SNP_P4_52749_30466397	NC_021163.1	Ca_kabuli_chr04	30466397	TT	CC	1946812139
SNP_P4_52750_30466398	NC_021163.1	Ca_kabuli_chr04	30466398	AA	CC	1946812141
SNP_P4_52751_30466399	NC_021163.1	Ca_kabuli_chr04	30466399	TT	AA	1946812143
SNP_P4_52752_30466417	NC_021163.1	Ca_kabuli_chr04	30466417	GG	AA	1946812146
SNP_P4_52753_30466474	NC_021163.1	Ca_kabuli_chr04	30466474	GG	AA	1946812148
SNP_P4_52754_30466482	NC_021163.1	Ca_kabuli_chr04	30466482	CC	AA	1946812150
SNP_P4_52755_30468767	NC_021163.1	Ca_kabuli_chr04	30468767	AA	GG	1946812152
SNP_P4_52756_30469856	NC_021163.1	Ca_kabuli_chr04	30469856	AA	TT	1946812154
SNP_P4_52757_30470413	NC_021163.1	Ca_kabuli_chr04	30470413	CC	TT	1946812156
SNP_P4_52758_30470848	NC_021163.1	Ca_kabuli_chr04	30470848	AA	GG	1946812158
SNP_P4_52759_30470849	NC_021163.1	Ca_kabuli_chr04	30470849	CC	AA	1946812160
SNP_P4_52760_30470857	NC_021163.1	Ca_kabuli_chr04	30470857	AA	GG	1946812162
SNP_P4_52762_30470880	NC_021163.1	Ca_kabuli_chr04	30470880	AA	GG	1946812164
SNP_P4_52763_30471855	NC_021163.1	Ca_kabuli_chr04	30471855	CC	TT	1946812167
SNP_P4_52764_30471865	NC_021163.1	Ca_kabuli_chr04	30471865	CC	TT	1946812169
SNP_P4_52765_30471969	NC_021163.1	Ca_kabuli_chr04	30471969	CC	TT	1946812171
SNP_P4_52766_30472002	NC_021163.1	Ca_kabuli_chr04	30472002	CC	TT	1946812173
SNP_P4_52767_30472137	NC_021163.1	Ca_kabuli_chr04	30472137	AA	GG	1946812175
SNP_P4_52768_30472160	NC_021163.1	Ca_kabuli_chr04	30472160	CC	AA	1946812177
SNP_P4_52769_30472168	NC_021163.1	Ca_kabuli_chr04	30472168	AA	GG	1946812179
SNP_P4_52770_30472380	NC_021163.1	Ca_kabuli_chr04	30472380	CC	TT	1946812181
SNP_P4_52771_30478728	NC_021163.1	Ca_kabuli_chr04	30478728	CC	TT	1946812183
SNP_P4_52772_30495760	NC_021163.1	Ca_kabuli_chr04	30495760	CC	TT	1946812185
SNP_P4_52775_30497201	NC_021163.1	Ca_kabuli_chr04	30497201	TT	CC	1946812187
SNP_P4_52776_30497669	NC_021163.1	Ca_kabuli_chr04	30497669	TT	CC	1946812190
SNP_P4_52777_30499385	NC_021163.1	Ca_kabuli_chr04	30499385	AA	TT	1946812192
SNP_P4_52778_30500000	NC_021163.1	Ca_kabuli_chr04	30500000	CC	TT	1946812194
SNP_P4_52779_30505021	NC_021163.1	Ca_kabuli_chr04	30505021	AA	GG	1946812196
SNP_P4_52780_30510406	NC_021163.1	Ca_kabuli_chr04	30510406	GG	TT	1946812198
SNP_P4_52781_30510411	NC_021163.1	Ca_kabuli_chr04	30510411	CC	TT	1946812200
SNP_P4_52782_30510420	NC_021163.1	Ca_kabuli_chr04	30510420	GG	AA	1946812202
SNP_P4_52783_30520011	NC_021163.1	Ca_kabuli_chr04	30520011	TT	CC	1946812204
SNP_P4_52784_30521115	NC_021163.1	Ca_kabuli_chr04	30521115	TT	CC	1946812206
SNP_P4_52785_30521185	NC_021163.1	Ca_kabuli_chr04	30521185	AA	GG	1946812208
SNP_P4_52786_30521194	NC_021163.1	Ca_kabuli_chr04	30521194	TT	AA	1946812210
SNP_P4_52787_30521275	NC_021163.1	Ca_kabuli_chr04	30521275	AA	TT	1946812212
SNP_P4_52788_30521893	NC_021163.1	Ca_kabuli_chr04	30521893	TT	CC	1946812214
SNP_P4_52789_30527051	NC_021163.1	Ca_kabuli_chr04	30527051	AA	GG	1946812216

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_52791_30532504	NC_021163.1	Ca_kabuli_chr04	30532504	AA	GG	1946812220
SNP_P4_52792_30533554	NC_021163.1	Ca_kabuli_chr04	30533554	CC	TT	1946812222
SNP_P4_52793_30534343	NC_021163.1	Ca_kabuli_chr04	30534343	CC	TT	1946812224
SNP_P4_52794_30534621	NC_021163.1	Ca_kabuli_chr04	30534621	TT	AA	1946812226
SNP_P4_52795_30535523	NC_021163.1	Ca_kabuli_chr04	30535523	CC	TT	1946812228
SNP_P4_52797_30536004	NC_021163.1	Ca_kabuli_chr04	30536004	CC	TT	1946812230
SNP_P4_52798_30536366	NC_021163.1	Ca_kabuli_chr04	30536366	AA	GG	1946812232
SNP_P4_52799_30537134	NC_021163.1	Ca_kabuli_chr04	30537134	TT	GG	1946812234
SNP_P4_52800_30537349	NC_021163.1	Ca_kabuli_chr04	30537349	CC	TT	1946812236
SNP_P4_52801_30537482	NC_021163.1	Ca_kabuli_chr04	30537482	AA	GG	1946812239
SNP_P4_52803_30537740	NC_021163.1	Ca_kabuli_chr04	30537740	CC	TT	1946812241
SNP_P4_52804_30537764	NC_021163.1	Ca_kabuli_chr04	30537764	CC	AA	1946812243
SNP_P4_52806_30538411	NC_021163.1	Ca_kabuli_chr04	30538411	AA	GG	1946812245
SNP_P4_52807_30538580	NC_021163.1	Ca_kabuli_chr04	30538580	AA	GG	1946812247
SNP_P4_52808_30538679	NC_021163.1	Ca_kabuli_chr04	30538679	AA	TT	1946812249
SNP_P4_52809_30538680	NC_021163.1	Ca_kabuli_chr04	30538680	AA	TT	1946812251
SNP_P4_52810_30538681	NC_021163.1	Ca_kabuli_chr04	30538681	AA	TT	1946812253
SNP_P4_52811_30538934	NC_021163.1	Ca_kabuli_chr04	30538934	GG	CC	1946812255
SNP_P4_52812_30538964	NC_021163.1	Ca_kabuli_chr04	30538964	CC	AA	1946812257
SNP_P4_52813_30539154	NC_021163.1	Ca_kabuli_chr04	30539154	GG	AA	1946812259
SNP_P4_52814_30539162	NC_021163.1	Ca_kabuli_chr04	30539162	CC	TT	1946812261
SNP_P4_52815_30539175	NC_021163.1	Ca_kabuli_chr04	30539175	GG	AA	1946812263
SNP_P4_52816_30539198	NC_021163.1	Ca_kabuli_chr04	30539198	TT	CC	1946812265
SNP_P4_52817_30539301	NC_021163.1	Ca_kabuli_chr04	30539301	GG	AA	1946812267
SNP_P4_52818_30539306	NC_021163.1	Ca_kabuli_chr04	30539306	GG	AA	1946812269
SNP_P4_52819_30539313	NC_021163.1	Ca_kabuli_chr04	30539313	TT	GG	1946812271
SNP_P4_52820_30540718	NC_021163.1	Ca_kabuli_chr04	30540718	AA	TT	1946812273
SNP_P4_52821_30540780	NC_021163.1	Ca_kabuli_chr04	30540780	TT	CC	1946812276
SNP_P4_52822_30540847	NC_021163.1	Ca_kabuli_chr04	30540847	TT	GG	1946812278
SNP_P4_52823_30540932	NC_021163.1	Ca_kabuli_chr04	30540932	GG	AA	1946812280
SNP_P4_52824_30540954	NC_021163.1	Ca_kabuli_chr04	30540954	CC	TT	1946812282
SNP_P4_52825_30541352	NC_021163.1	Ca_kabuli_chr04	30541352	AA	GG	1946812284
SNP_P4_52826_30541371	NC_021163.1	Ca_kabuli_chr04	30541371	GG	AA	1946812286
SNP_P4_52827_30541374	NC_021163.1	Ca_kabuli_chr04	30541374	CC	TT	1946812288
SNP_P4_52828_30541400	NC_021163.1	Ca_kabuli_chr04	30541400	CC	GG	1946812290
SNP_P4_52829_30541444	NC_021163.1	Ca_kabuli_chr04	30541444	GG	AA	1946812292
SNP_P4_52830_30541497	NC_021163.1	Ca_kabuli_chr04	30541497	TT	CC	1946812294
SNP_P4_52831_30541538	NC_021163.1	Ca_kabuli_chr04	30541538	TT	CC	1946812296
SNP_P4_52832_30541542	NC_021163.1	Ca_kabuli_chr04	30541542	GG	TT	1946812298
SNP_P4_52833_30541548	NC_021163.1	Ca_kabuli_chr04	30541548	TT	CC	1946812300
SNP_P4_52834_30541556	NC_021163.1	Ca_kabuli_chr04	30541556	AA	GG	1946812303

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_52836_30541578	NC_021163.1	Ca_kabuli_chr04	30541578	CC	TT	1946812308
SNP_P4_52837_30541582	NC_021163.1	Ca_kabuli_chr04	30541582	GG	AA	1946812310
SNP_P4_52838_30541592	NC_021163.1	Ca_kabuli_chr04	30541592	CC	TT	1946812312
SNP_P4_52839_30541598	NC_021163.1	Ca_kabuli_chr04	30541598	CC	TT	1946812314
SNP_P4_52840_30541607	NC_021163.1	Ca_kabuli_chr04	30541607	AA	GG	1946812316
SNP_P4_52841_30541634	NC_021163.1	Ca_kabuli_chr04	30541634	AA	GG	1946812318
SNP_P4_52842_30541645	NC_021163.1	Ca_kabuli_chr04	30541645	GG	AA	1946812320
SNP_P4_52843_30541656	NC_021163.1	Ca_kabuli_chr04	30541656	TT	CC	1946812323
SNP_P4_52844_30541657	NC_021163.1	Ca_kabuli_chr04	30541657	TT	CC	1946812325
SNP_P4_52845_30541736	NC_021163.1	Ca_kabuli_chr04	30541736	GG	AA	1946812327
SNP_P4_52846_30541791	NC_021163.1	Ca_kabuli_chr04	30541791	TT	CC	1946812329
SNP_P4_52847_30541795	NC_021163.1	Ca_kabuli_chr04	30541795	CC	TT	1946812331
SNP_P4_52848_30541812	NC_021163.1	Ca_kabuli_chr04	30541812	AA	GG	1946812333
SNP_P4_52849_30541818	NC_021163.1	Ca_kabuli_chr04	30541818	AA	GG	1946812335
SNP_P4_52850_30541866	NC_021163.1	Ca_kabuli_chr04	30541866	AA	GG	1946812337
SNP_P4_52851_30541868	NC_021163.1	Ca_kabuli_chr04	30541868	AA	GG	1946812339
SNP_P4_52852_30541918	NC_021163.1	Ca_kabuli_chr04	30541918	CC	AA	1946812341
SNP_P4_52853_30541936	NC_021163.1	Ca_kabuli_chr04	30541936	AA	GG	1946812343
SNP_P4_52854_30541961	NC_021163.1	Ca_kabuli_chr04	30541961	GG	AA	1946812345
SNP_P4_52855_30541998	NC_021163.1	Ca_kabuli_chr04	30541998	AA	CC	1946812347
SNP_P4_52856_30542003	NC_021163.1	Ca_kabuli_chr04	30542003	TT	CC	1946812349
SNP_P4_52857_30542004	NC_021163.1	Ca_kabuli_chr04	30542004	TT	AA	1946812352
SNP_P4_52858_30542034	NC_021163.1	Ca_kabuli_chr04	30542034	CC	TT	1946812354
SNP_P4_52859_30542109	NC_021163.1	Ca_kabuli_chr04	30542109	AA	CC	1946812356
SNP_P4_52860_30542184	NC_021163.1	Ca_kabuli_chr04	30542184	CC	TT	1946812358
SNP_P4_52861_30542288	NC_021163.1	Ca_kabuli_chr04	30542288	CC	AA	1946812360
SNP_P4_52862_30542428	NC_021163.1	Ca_kabuli_chr04	30542428	AA	GG	1946812362
SNP_P4_52863_30542541	NC_021163.1	Ca_kabuli_chr04	30542541	TT	GG	1946812364
SNP_P4_52864_30542598	NC_021163.1	Ca_kabuli_chr04	30542598	GG	AA	1946812366
SNP_P4_52865_30542611	NC_021163.1	Ca_kabuli_chr04	30542611	GG	CC	1946812368
SNP_P4_52866_30542638	NC_021163.1	Ca_kabuli_chr04	30542638	TT	CC	1946812370
SNP_P4_52867_30542640	NC_021163.1	Ca_kabuli_chr04	30542640	TT	GG	1946812372
SNP_P4_52868_30542659	NC_021163.1	Ca_kabuli_chr04	30542659	CC	TT	1946812374
SNP_P4_52869_30542702	NC_021163.1	Ca_kabuli_chr04	30542702	GG	TT	1946812376
SNP_P4_52870_30542722	NC_021163.1	Ca_kabuli_chr04	30542722	CC	TT	1946812378
SNP_P4_52871_30542905	NC_021163.1	Ca_kabuli_chr04	30542905	CC	GG	1946812380
SNP_P4_52872_30542929	NC_021163.1	Ca_kabuli_chr04	30542929	GG	TT	1946812382
SNP_P4_52873_30542945	NC_021163.1	Ca_kabuli_chr04	30542945	AA	CC	1946812384
SNP_P4_52874_30542950	NC_021163.1	Ca_kabuli_chr04	30542950	TT	CC	1946812386
SNP_P4_52875_30543482	NC_021163.1	Ca_kabuli_chr04	30543482	AA	GG	1946812388
SNP_P4_52877_30544027	NC_021163.1	Ca_kabuli_chr04	30544027	GG	CC	1946812390

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_52878_30544037	NC_021163.1	Ca_kabuli_chr04	30544037	GG	AA	1946812392
SNP_P4_52879_30544144	NC_021163.1	Ca_kabuli_chr04	30544144	CC	GG	1946812394
SNP_P4_52880_30544193	NC_021163.1	Ca_kabuli_chr04	30544193	CC	TT	1946812396
SNP_P4_52881_30544282	NC_021163.1	Ca_kabuli_chr04	30544282	CC	TT	1946812398
SNP_P4_52882_30544300	NC_021163.1	Ca_kabuli_chr04	30544300	AA	CC	1946812400
SNP_P4_52883_30544325	NC_021163.1	Ca_kabuli_chr04	30544325	GG	AA	1946812402
SNP_P4_52884_30544329	NC_021163.1	Ca_kabuli_chr04	30544329	AA	GG	1946812404
SNP_P4_52885_30544360	NC_021163.1	Ca_kabuli_chr04	30544360	CC	TT	1946812406
SNP_P4_52886_30544665	NC_021163.1	Ca_kabuli_chr04	30544665	CC	TT	1946812408
SNP_P4_52887_30544687	NC_021163.1	Ca_kabuli_chr04	30544687	GG	AA	1946812410
SNP_P4_52888_30544689	NC_021163.1	Ca_kabuli_chr04	30544689	GG	TT	1946812412
SNP_P4_52889_30546080	NC_021163.1	Ca_kabuli_chr04	30546080	GG	CC	1946812414
SNP_P4_52890_30546084	NC_021163.1	Ca_kabuli_chr04	30546084	CC	AA	1946812416
SNP_P4_52891_30546092	NC_021163.1	Ca_kabuli_chr04	30546092	TT	AA	1946812418
SNP_P4_52892_30546110	NC_021163.1	Ca_kabuli_chr04	30546110	CC	TT	1946812420
SNP_P4_52893_30546121	NC_021163.1	Ca_kabuli_chr04	30546121	CC	AA	1946812422
SNP_P4_52894_30546358	NC_021163.1	Ca_kabuli_chr04	30546358	CC	TT	1946812424
SNP_P4_52895_30546566	NC_021163.1	Ca_kabuli_chr04	30546566	CC	TT	1946812426
SNP_P4_52896_30546666	NC_021163.1	Ca_kabuli_chr04	30546666	TT	GG	1946812428
SNP_P4_52897_30546684	NC_021163.1	Ca_kabuli_chr04	30546684	AA	GG	1946812430
SNP_P4_52898_30546688	NC_021163.1	Ca_kabuli_chr04	30546688	TT	AA	1946812432
SNP_P4_52899_30546701	NC_021163.1	Ca_kabuli_chr04	30546701	CC	TT	1946812434
SNP_P4_52900_30546702	NC_021163.1	Ca_kabuli_chr04	30546702	CC	TT	1946812436
SNP_P4_52901_30546716	NC_021163.1	Ca_kabuli_chr04	30546716	TT	CC	1946812438
SNP_P4_52902_30546780	NC_021163.1	Ca_kabuli_chr04	30546780	AA	CC	1946812440
SNP_P4_52903_30546795	NC_021163.1	Ca_kabuli_chr04	30546795	CC	TT	1946812442
SNP_P4_52904_30546960	NC_021163.1	Ca_kabuli_chr04	30546960	TT	CC	1946812444
SNP_P4_52905_30546983	NC_021163.1	Ca_kabuli_chr04	30546983	AA	CC	1946812446
SNP_P4_52906_30546985	NC_021163.1	Ca_kabuli_chr04	30546985	TT	CC	1946812448
SNP_P4_52907_30546986	NC_021163.1	Ca_kabuli_chr04	30546986	CC	AA	1946812450
SNP_P4_52908_30549246	NC_021163.1	Ca_kabuli_chr04	30549246	CC	TT	1946812452
SNP_P4_52909_30549446	NC_021163.1	Ca_kabuli_chr04	30549446	CC	AA	1946812454
SNP_P4_52910_30550557	NC_021163.1	Ca_kabuli_chr04	30550557	AA	CC	1946812456
SNP_P4_52913_30554352	NC_021163.1	Ca_kabuli_chr04	30554352	GG	AA	1946812458
SNP_P4_52914_30554374	NC_021163.1	Ca_kabuli_chr04	30554374	CC	TT	1946812460
SNP_P4_52915_30554399	NC_021163.1	Ca_kabuli_chr04	30554399	AA	GG	1946812462
SNP_P4_52916_30554792	NC_021163.1	Ca_kabuli_chr04	30554792	GG	AA	1946812464
SNP_P4_52917_30555078	NC_021163.1	Ca_kabuli_chr04	30555078	CC	TT	1946812466
SNP_P4_52918_30556124	NC_021163.1	Ca_kabuli_chr04	30556124	CC	TT	1946812469
SNP_P4_52919_30557390	NC_021163.1	Ca_kabuli_chr04	30557390	AA	GG	1946812471
SNP_P4_52920_30558132	NC_021163.1	Ca_kabuli_chr04	30558132	GG	TT	1946812473
SNP_P4_52921_30558686	NC_021163.1	Ca_kabuli_chr04	30558686	AA	GG	1946812475

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_52923_30560443	NC_021163.1	Ca_kabuli_chr04	30560443	TT	CC	1946812479
SNP_P4_52925_30561698	NC_021163.1	Ca_kabuli_chr04	30561698	GG	TT	1946812481
SNP_P4_52926_30563855	NC_021163.1	Ca_kabuli_chr04	30563855	TT	CC	1946812483
SNP_P4_52927_30563863	NC_021163.1	Ca_kabuli_chr04	30563863	AA	GG	1946812485
SNP_P4_52928_30564196	NC_021163.1	Ca_kabuli_chr04	30564196	TT	CC	1946812487
SNP_P4_52929_30564298	NC_021163.1	Ca_kabuli_chr04	30564298	TT	AA	1946812489
SNP_P4_52931_30572781	NC_021163.1	Ca_kabuli_chr04	30572781	GG	TT	1946812491
SNP_P4_52932_30574844	NC_021163.1	Ca_kabuli_chr04	30574844	AA	GG	1946812493
SNP_P4_52934_30578949	NC_021163.1	Ca_kabuli_chr04	30578949	AA	GG	1946812495
SNP_P4_52935_30582606	NC_021163.1	Ca_kabuli_chr04	30582606	AA	TT	1946812497
SNP_P4_52937_30584237	NC_021163.1	Ca_kabuli_chr04	30584237	CC	TT	1946812499
SNP_P4_52938_30584831	NC_021163.1	Ca_kabuli_chr04	30584831	AA	CC	1946812501
SNP_P4_52940_30585443	NC_021163.1	Ca_kabuli_chr04	30585443	AA	GG	1946812504
SNP_P4_52942_30586268	NC_021163.1	Ca_kabuli_chr04	30586268	TT	CC	1946812506
SNP_P4_52943_30587357	NC_021163.1	Ca_kabuli_chr04	30587357	TT	CC	1946812508
SNP_P4_52944_30587400	NC_021163.1	Ca_kabuli_chr04	30587400	AA	GG	1946812510
SNP_P4_52945_30588004	NC_021163.1	Ca_kabuli_chr04	30588004	GG	AA	1946812512
SNP_P4_52946_30588049	NC_021163.1	Ca_kabuli_chr04	30588049	AA	GG	1946812514
SNP_P4_52947_30588068	NC_021163.1	Ca_kabuli_chr04	30588068	TT	GG	1946812516
SNP_P4_52948_30588123	NC_021163.1	Ca_kabuli_chr04	30588123	AA	GG	1946812518
SNP_P4_52949_30588462	NC_021163.1	Ca_kabuli_chr04	30588462	TT	GG	1946812520
SNP_P4_52950_30588741	NC_021163.1	Ca_kabuli_chr04	30588741	TT	GG	1946812522
SNP_P4_52951_30588745	NC_021163.1	Ca_kabuli_chr04	30588745	TT	CC	1946812524
SNP_P4_52952_30592175	NC_021163.1	Ca_kabuli_chr04	30592175	GG	AA	1946812526
SNP_P4_52953_30597193	NC_021163.1	Ca_kabuli_chr04	30597193	TT	CC	1946812529
SNP_P4_52954_30600451	NC_021163.1	Ca_kabuli_chr04	30600451	CC	AA	1946812531
SNP_P4_52955_30603655	NC_021163.1	Ca_kabuli_chr04	30603655	TT	CC	1946812533
SNP_P4_52958_30607701	NC_021163.1	Ca_kabuli_chr04	30607701	CC	TT	1946812535
SNP_P4_52959_30607962	NC_021163.1	Ca_kabuli_chr04	30607962	GG	AA	1946812537
SNP_P4_52960_30618472	NC_021163.1	Ca_kabuli_chr04	30618472	AA	GG	1946812539
SNP_P4_52961_30618617	NC_021163.1	Ca_kabuli_chr04	30618617	CC	GG	1946812541
SNP_P4_52962_30619688	NC_021163.1	Ca_kabuli_chr04	30619688	AA	TT	1946812543
SNP_P4_52964_30619868	NC_021163.1	Ca_kabuli_chr04	30619868	CC	AA	1946812545
SNP_P4_52967_30621752	NC_021163.1	Ca_kabuli_chr04	30621752	TT	CC	1946812547
SNP_P4_52968_30626515	NC_021163.1	Ca_kabuli_chr04	30626515	TT	CC	1946812549
SNP_P4_52969_30626581	NC_021163.1	Ca_kabuli_chr04	30626581	TT	CC	1946812551
SNP_P4_52970_30628286	NC_021163.1	Ca_kabuli_chr04	30628286	CC	TT	1946812553
SNP_P4_52973_30630999	NC_021163.1	Ca_kabuli_chr04	30630999	CC	TT	1946812555
SNP_P4_52974_30637639	NC_021163.1	Ca_kabuli_chr04	30637639	AA	GG	1946812557
SNP_P4_52975_30637659	NC_021163.1	Ca_kabuli_chr04	30637659	CC	TT	1946812559
SNP_P4_52976_30637688	NC_021163.1	Ca_kabuli_chr04	30637688	TT	GG	1946812561

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_52979_30638588	NC_021163.1	Ca_kabuli_chr04	30638588	TT	CC	1946812567
SNP_P4_52981_30652726	NC_021163.1	Ca_kabuli_chr04	30652726	GG	AA	1946812569
SNP_P4_52982_30653013	NC_021163.1	Ca_kabuli_chr04	30653013	TT	CC	1946812571
SNP_P4_52983_30653085	NC_021163.1	Ca_kabuli_chr04	30653085	TT	AA	1946812573
SNP_P4_52984_30658608	NC_021163.1	Ca_kabuli_chr04	30658608	TT	AA	1946812575
SNP_P4_52985_30659778	NC_021163.1	Ca_kabuli_chr04	30659778	AA	GG	1946812577
SNP_P4_52986_30660091	NC_021163.1	Ca_kabuli_chr04	30660091	GG	AA	1946812579
SNP_P4_52987_30660173	NC_021163.1	Ca_kabuli_chr04	30660173	CC	TT	1946812581
SNP_P4_52989_30664177	NC_021163.1	Ca_kabuli_chr04	30664177	GG	AA	1946812584
SNP_P4_52990_30664624	NC_021163.1	Ca_kabuli_chr04	30664624	GG	TT	1946812586
SNP_P4_52991_30673458	NC_021163.1	Ca_kabuli_chr04	30673458	AA	TT	1946812588
SNP_P4_52992_30677901	NC_021163.1	Ca_kabuli_chr04	30677901	AA	GG	1946812590
SNP_P4_52993_30681128	NC_021163.1	Ca_kabuli_chr04	30681128	TT	CC	1946812592
SNP_P4_52995_30686908	NC_021163.1	Ca_kabuli_chr04	30686908	TT	CC	1946812594
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SNP_P4_52998_30689184	NC_021163.1	Ca_kabuli_chr04	30689184	CC	TT	1946812598
SNP_P4_53000_30698223	NC_021163.1	Ca_kabuli_chr04	30698223	AA	GG	1946812600
SNP_P4_53001_30702756	NC_021163.1	Ca_kabuli_chr04	30702756	AA	GG	1946812602
SNP_P4_53002_30703822	NC_021163.1	Ca_kabuli_chr04	30703822	CC	GG	1946812604
SNP_P4_53003_30706484	NC_021163.1	Ca_kabuli_chr04	30706484	AA	TT	1946812605
SNP_P4_53004_30713634	NC_021163.1	Ca_kabuli_chr04	30713634	CC	AA	1946812607
SNP_P4_53006_30716002	NC_021163.1	Ca_kabuli_chr04	30716002	AA	GG	1946812609
SNP_P4_53007_30716015	NC_021163.1	Ca_kabuli_chr04	30716015	CC	TT	1946812611
SNP_P4_53008_30716351	NC_021163.1	Ca_kabuli_chr04	30716351	CC	AA	1946812613
SNP_P4_53009_30716405	NC_021163.1	Ca_kabuli_chr04	30716405	AA	GG	1946812615
SNP_P4_53010_30716478	NC_021163.1	Ca_kabuli_chr04	30716478	AA	TT	1946812617
SNP_P4_53011_30717561	NC_021163.1	Ca_kabuli_chr04	30717561	CC	AA	1946812619
SNP_P4_53012_30717634	NC_021163.1	Ca_kabuli_chr04	30717634	CC	AA	1946812621
SNP_P4_53013_30717651	NC_021163.1	Ca_kabuli_chr04	30717651	CC	TT	1946812623
SNP_P4_53014_30718057	NC_021163.1	Ca_kabuli_chr04	30718057	GG	TT	1946812625
SNP_P4_53015_30718353	NC_021163.1	Ca_kabuli_chr04	30718353	AA	GG	1946812627
SNP_P4_53016_30718491	NC_021163.1	Ca_kabuli_chr04	30718491	AA	TT	1946812629
SNP_P4_53017_30718897	NC_021163.1	Ca_kabuli_chr04	30718897	GG	CC	1946812631
SNP_P4_53018_30718914	NC_021163.1	Ca_kabuli_chr04	30718914	AA	TT	1946812633
SNP_P4_53019_30719647	NC_021163.1	Ca_kabuli_chr04	30719647	TT	GG	1946812635
SNP_P4_53020_30719648	NC_021163.1	Ca_kabuli_chr04	30719648	TT	AA	1946812637
SNP_P4_53021_30719760	NC_021163.1	Ca_kabuli_chr04	30719760	TT	GG	1946812639
SNP_P4_53022_30720012	NC_021163.1	Ca_kabuli_chr04	30720012	TT	GG	1946812641
SNP_P4_53023_30720276	NC_021163.1	Ca_kabuli_chr04	30720276	CC	TT	1946812643
SNP_P4_53024_30720316	NC_021163.1	Ca_kabuli_chr04	30720316	AA	TT	1946812645

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_53027_30721736	NC_021163.1	Ca_kabuli_chr04	30721736	GG	TT	1946812651
SNP_P4_53029_30726938	NC_021163.1	Ca_kabuli_chr04	30726938	TT	CC	1946812653
SNP_P4_53031_30730538	NC_021163.1	Ca_kabuli_chr04	30730538	GG	AA	1946812655
SNP_P4_53032_30735680	NC_021163.1	Ca_kabuli_chr04	30735680	GG	CC	1946812657
SNP_P4_53033_30735725	NC_021163.1	Ca_kabuli_chr04	30735725	GG	AA	1946812659
SNP_P4_53034_30735735	NC_021163.1	Ca_kabuli_chr04	30735735	AA	GG	1946812661
SNP_P4_53035_30735991	NC_021163.1	Ca_kabuli_chr04	30735991	GG	CC	1946812663
SNP_P4_53036_30739171	NC_021163.1	Ca_kabuli_chr04	30739171	AA	GG	1946812665
SNP_P4_53037_30739177	NC_021163.1	Ca_kabuli_chr04	30739177	GG	AA	1946812666
SNP_P4_53038_30739188	NC_021163.1	Ca_kabuli_chr04	30739188	AA	GG	1946812668
SNP_P4_53039_30739210	NC_021163.1	Ca_kabuli_chr04	30739210	AA	TT	1946812670
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SNP_P4_53041_30740237	NC_021163.1	Ca_kabuli_chr04	30740237	TT	AA	1946812674
SNP_P4_53042_30741541	NC_021163.1	Ca_kabuli_chr04	30741541	GG	TT	1946812676
SNP_P4_53043_30742913	NC_021163.1	Ca_kabuli_chr04	30742913	AA	GG	1946812678
SNP_P4_53044_30742915	NC_021163.1	Ca_kabuli_chr04	30742915	TT	CC	1946812680
SNP_P4_53045_30744192	NC_021163.1	Ca_kabuli_chr04	30744192	GG	CC	1946812682
SNP_P4_53046_30747206	NC_021163.1	Ca_kabuli_chr04	30747206	AA	GG	1946812684
SNP_P4_53047_30747586	NC_021163.1	Ca_kabuli_chr04	30747586	CC	TT	1946812686
SNP_P4_53048_30749629	NC_021163.1	Ca_kabuli_chr04	30749629	GG	AA	1946812688
SNP_P4_53049_30749631	NC_021163.1	Ca_kabuli_chr04	30749631	GG	AA	1946812690
SNP_P4_53051_30750436	NC_021163.1	Ca_kabuli_chr04	30750436	TT	CC	1946812692
SNP_P4_53052_30750456	NC_021163.1	Ca_kabuli_chr04	30750456	CC	TT	1946812694
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SNP_P4_53056_30763136	NC_021163.1	Ca_kabuli_chr04	30763136	TT	CC	1946812703
SNP_P4_53057_30763821	NC_021163.1	Ca_kabuli_chr04	30763821	GG	AA	1946812705
SNP_P4_53058_30765774	NC_021163.1	Ca_kabuli_chr04	30765774	CC	TT	1946812707
SNP_P4_53059_30766356	NC_021163.1	Ca_kabuli_chr04	30766356	CC	TT	1946812709
SNP_P4_53060_30767731	NC_021163.1	Ca_kabuli_chr04	30767731	CC	TT	1946812711
SNP_P4_53061_30768017	NC_021163.1	Ca_kabuli_chr04	30768017	GG	TT	1946812713
SNP_P4_53062_30768458	NC_021163.1	Ca_kabuli_chr04	30768458	GG	TT	1946812715
SNP_P4_53063_30769470	NC_021163.1	Ca_kabuli_chr04	30769470	GG	TT	1946812717
SNP_P4_53064_30770815	NC_021163.1	Ca_kabuli_chr04	30770815	AA	GG	1946812719
SNP_P4_53067_30776368	NC_021163.1	Ca_kabuli_chr04	30776368	GG	AA	1946812721
SNP_P4_53068_30781970	NC_021163.1	Ca_kabuli_chr04	30781970	AA	GG	1946812723
SNP_P4_53069_30782513	NC_021163.1	Ca_kabuli_chr04	30782513	CC	TT	1946812725
SNP_P4_53070_30782525	NC_021163.1	Ca_kabuli_chr04	30782525	AA	GG	1946812727
SNP_P4_53071_30782542	NC_021163.1	Ca_kabuli_chr04	30782542	CC	TT	1946812729

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_53074_30790303	NC_021163.1	Ca_kabuli_chr04	30790303	CC	AA	1946812733
SNP_P4_53077_30795094	NC_021163.1	Ca_kabuli_chr04	30795094	TT	CC	1946812735
SNP_P4_53078_30799090	NC_021163.1	Ca_kabuli_chr04	30799090	TT	CC	1946812737
SNP_P4_53079_30801965	NC_021163.1	Ca_kabuli_chr04	30801965	TT	GG	1946812739
SNP_P4_53080_30802155	NC_021163.1	Ca_kabuli_chr04	30802155	CC	AA	1946812741
SNP_P4_53081_30805739	NC_021163.1	Ca_kabuli_chr04	30805739	TT	AA	1946812743
SNP_P4_53082_30818937	NC_021163.1	Ca_kabuli_chr04	30818937	AA	GG	1946812745
SNP_P4_53083_30819879	NC_021163.1	Ca_kabuli_chr04	30819879	GG	AA	1946812747
SNP_P4_53084_30820129	NC_021163.1	Ca_kabuli_chr04	30820129	CC	TT	1946812749
SNP_P4_53085_30820460	NC_021163.1	Ca_kabuli_chr04	30820460	CC	AA	1946812751
SNP_P4_53086_30820562	NC_021163.1	Ca_kabuli_chr04	30820562	GG	AA	1946812753
SNP_P4_53087_30822862	NC_021163.1	Ca_kabuli_chr04	30822862	GG	AA	1946812755
SNP_P4_53089_30823387	NC_021163.1	Ca_kabuli_chr04	30823387	GG	AA	1946812757
SNP_P4_53090_30824258	NC_021163.1	Ca_kabuli_chr04	30824258	AA	CC	1946812759
SNP_P4_53092_30826036	NC_021163.1	Ca_kabuli_chr04	30826036	TT	CC	1946812761
SNP_P4_53093_30827427	NC_021163.1	Ca_kabuli_chr04	30827427	GG	AA	1946812763
SNP_P4_53094_30827437	NC_021163.1	Ca_kabuli_chr04	30827437	GG	TT	1946812765
SNP_P4_53095_30827657	NC_021163.1	Ca_kabuli_chr04	30827657	AA	CC	1946812767
SNP_P4_53096_30828557	NC_021163.1	Ca_kabuli_chr04	30828557	TT	CC	1946812769
SNP_P4_53097_30828641	NC_021163.1	Ca_kabuli_chr04	30828641	CC	TT	1946812771
SNP_P4_53098_30828729	NC_021163.1	Ca_kabuli_chr04	30828729	GG	AA	1946812773
SNP_P4_53099_30828912	NC_021163.1	Ca_kabuli_chr04	30828912	TT	AA	1946812775
SNP_P4_53100_30828938	NC_021163.1	Ca_kabuli_chr04	30828938	TT	GG	1946812777
SNP_P4_53101_30829404	NC_021163.1	Ca_kabuli_chr04	30829404	AA	GG	1946812779
SNP_P4_53102_30829655	NC_021163.1	Ca_kabuli_chr04	30829655	TT	CC	1946812781
SNP_P4_53103_30829672	NC_021163.1	Ca_kabuli_chr04	30829672	TT	GG	1946812783
SNP_P4_53104_30829681	NC_021163.1	Ca_kabuli_chr04	30829681	AA	CC	1946812785
SNP_P4_53105_30829706	NC_021163.1	Ca_kabuli_chr04	30829706	TT	GG	1946812787
SNP_P4_53106_30829877	NC_021163.1	Ca_kabuli_chr04	30829877	TT	CC	1946812789
SNP_P4_53107_30829934	NC_021163.1	Ca_kabuli_chr04	30829934	GG	AA	1946812791
SNP_P4_53108_30829942	NC_021163.1	Ca_kabuli_chr04	30829942	TT	GG	1946812793
SNP_P4_53109_30830250	NC_021163.1	Ca_kabuli_chr04	30830250	AA	TT	1946812795
SNP_P4_53110_30831862	NC_021163.1	Ca_kabuli_chr04	30831862	CC	GG	1946812797
SNP_P4_53111_30832190	NC_021163.1	Ca_kabuli_chr04	30832190	CC	TT	1946812800
SNP_P4_53112_30833915	NC_021163.1	Ca_kabuli_chr04	30833915	GG	AA	1946812802
SNP_P4_53113_30843200	NC_021163.1	Ca_kabuli_chr04	30843200	CC	TT	1946812804
SNP_P4_53114_30843569	NC_021163.1	Ca_kabuli_chr04	30843569	AA	CC	1946812806
SNP_P4_53117_30861531	NC_021163.1	Ca_kabuli_chr04	30861531	CC	TT	1946812808
SNP_P4_53118_30861539	NC_021163.1	Ca_kabuli_chr04	30861539	GG	AA	1946812810
SNP_P4_53119_30861554	NC_021163.1	Ca_kabuli_chr04	30861554	GG	AA	1946812812
SNP_P4_53120_30861558	NC_021163.1	Ca_kabuli_chr04	30861558	TT	AA	1946812814

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_53122_30861582	NC_021163.1	Ca_kabuli_chr04	30861582	AA	GG	1946812818
SNP_P4_53123_30861942	NC_021163.1	Ca_kabuli_chr04	30861942	AA	GG	1946812820
SNP_P4_53124_30863297	NC_021163.1	Ca_kabuli_chr04	30863297	GG	AA	1946812822
SNP_P4_53125_30867930	NC_021163.1	Ca_kabuli_chr04	30867930	GG	AA	1946812824
SNP_P4_53126_30868062	NC_021163.1	Ca_kabuli_chr04	30868062	TT	GG	1946812826
SNP_P4_53127_30868126	NC_021163.1	Ca_kabuli_chr04	30868126	AA	GG	1946812828
SNP_P4_53128_30868439	NC_021163.1	Ca_kabuli_chr04	30868439	GG	AA	1946812831
SNP_P4_53129_30869280	NC_021163.1	Ca_kabuli_chr04	30869280	GG	AA	1946812833
SNP_P4_53130_30869287	NC_021163.1	Ca_kabuli_chr04	30869287	AA	CC	1946812835
SNP_P4_53131_30869663	NC_021163.1	Ca_kabuli_chr04	30869663	AA	GG	1946812837
SNP_P4_53132_30869667	NC_021163.1	Ca_kabuli_chr04	30869667	GG	CC	1946812839
SNP_P4_53133_30869988	NC_021163.1	Ca_kabuli_chr04	30869988	AA	TT	1946812841
SNP_P4_53134_30870189	NC_021163.1	Ca_kabuli_chr04	30870189	TT	AA	1946812843
SNP_P4_53135_30870212	NC_021163.1	Ca_kabuli_chr04	30870212	GG	AA	1946812845
SNP_P4_53137_30870268	NC_021163.1	Ca_kabuli_chr04	30870268	CC	TT	1946812847
SNP_P4_53138_30871036	NC_021163.1	Ca_kabuli_chr04	30871036	AA	GG	1946812849
SNP_P4_53139_30871065	NC_021163.1	Ca_kabuli_chr04	30871065	AA	GG	1946812851
SNP_P4_53140_30871493	NC_021163.1	Ca_kabuli_chr04	30871493	AA	TT	1946812853
SNP_P4_53141_30871657	NC_021163.1	Ca_kabuli_chr04	30871657	GG	AA	1946812855
SNP_P4_53142_30871717	NC_021163.1	Ca_kabuli_chr04	30871717	CC	TT	1946812857
SNP_P4_53143_30871722	NC_021163.1	Ca_kabuli_chr04	30871722	CC	AA	1946812859
SNP_P4_53144_30871723	NC_021163.1	Ca_kabuli_chr04	30871723	TT	CC	1946812861
SNP_P4_53145_30871727	NC_021163.1	Ca_kabuli_chr04	30871727	GG	TT	1946812863
SNP_P4_53146_30871733	NC_021163.1	Ca_kabuli_chr04	30871733	TT	CC	1946812865
SNP_P4_53147_30872380	NC_021163.1	Ca_kabuli_chr04	30872380	AA	GG	1946812867
SNP_P4_53148_30872632	NC_021163.1	Ca_kabuli_chr04	30872632	AA	GG	1946812869
SNP_P4_53149_30872646	NC_021163.1	Ca_kabuli_chr04	30872646	GG	TT	1946812871
SNP_P4_53151_30872717	NC_021163.1	Ca_kabuli_chr04	30872717	GG	AA	1946812873
SNP_P4_53153_30872870	NC_021163.1	Ca_kabuli_chr04	30872870	TT	CC	1946812875
SNP_P4_53154_30872900	NC_021163.1	Ca_kabuli_chr04	30872900	AA	CC	1946812877
SNP_P4_53155_30872956	NC_021163.1	Ca_kabuli_chr04	30872956	AA	CC	1946812879
SNP_P4_53156_30873502	NC_021163.1	Ca_kabuli_chr04	30873502	CC	TT	1946812881
SNP_P4_53157_30873509	NC_021163.1	Ca_kabuli_chr04	30873509	GG	AA	1946812883
SNP_P4_53158_30873544	NC_021163.1	Ca_kabuli_chr04	30873544	TT	CC	1946812885
SNP_P4_53160_30874557	NC_021163.1	Ca_kabuli_chr04	30874557	GG	AA	1946812887
SNP_P4_53161_30874571	NC_021163.1	Ca_kabuli_chr04	30874571	GG	TT	1946812889
SNP_P4_53162_30877630	NC_021163.1	Ca_kabuli_chr04	30877630	CC	TT	1946812891
SNP_P4_53163_30881631	NC_021163.1	Ca_kabuli_chr04	30881631	CC	AA	1946812893
SNP_P4_53164_30881642	NC_021163.1	Ca_kabuli_chr04	30881642	CC	AA	1946812895
SNP_P4_53165_30882397	NC_021163.1	Ca_kabuli_chr04	30882397	TT	CC	1946812897
SNP_P4_53167_30883391	NC_021163.1	Ca_kabuli_chr04	30883391	AA	CC	1946812899

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_53170_30884725	NC_021163.1	Ca_kabuli_chr04	30884725	AA	GG	1946812903
SNP_P4_53171_30884756	NC_021163.1	Ca_kabuli_chr04	30884756	CC	TT	1946812905
SNP_P4_53172_30884762	NC_021163.1	Ca_kabuli_chr04	30884762	GG	AA	1946812907
SNP_P4_53173_30884772	NC_021163.1	Ca_kabuli_chr04	30884772	CC	TT	1946812909
SNP_P4_53174_30885000	NC_021163.1	Ca_kabuli_chr04	30885000	CC	TT	1946812911
SNP_P4_53175_30886056	NC_021163.1	Ca_kabuli_chr04	30886056	CC	TT	1946812913
SNP_P4_53176_30886088	NC_021163.1	Ca_kabuli_chr04	30886088	TT	AA	1946812915
SNP_P4_53177_30886286	NC_021163.1	Ca_kabuli_chr04	30886286	AA	GG	1946812917
SNP_P4_53178_30886293	NC_021163.1	Ca_kabuli_chr04	30886293	TT	GG	1946812919
SNP_P4_53179_30886405	NC_021163.1	Ca_kabuli_chr04	30886405	GG	AA	1946812921
SNP_P4_53180_30886764	NC_021163.1	Ca_kabuli_chr04	30886764	CC	TT	1946812923
SNP_P4_53181_30886774	NC_021163.1	Ca_kabuli_chr04	30886774	AA	GG	1946812925
SNP_P4_53182_30886936	NC_021163.1	Ca_kabuli_chr04	30886936	TT	CC	1946812927
SNP_P4_53183_30886940	NC_021163.1	Ca_kabuli_chr04	30886940	TT	CC	1946812929
SNP_P4_53184_30886960	NC_021163.1	Ca_kabuli_chr04	30886960	AA	GG	1946812931
SNP_P4_53185_30887477	NC_021163.1	Ca_kabuli_chr04	30887477	CC	TT	1946812933
SNP_P4_53186_30887752	NC_021163.1	Ca_kabuli_chr04	30887752	TT	GG	1946812935
SNP_P4_53187_30887767	NC_021163.1	Ca_kabuli_chr04	30887767	GG	TT	1946812937
SNP_P4_53188_30888035	NC_021163.1	Ca_kabuli_chr04	30888035	GG	AA	1946812939
SNP_P4_53189_30888082	NC_021163.1	Ca_kabuli_chr04	30888082	AA	TT	1946812941
SNP_P4_53190_30889129	NC_021163.1	Ca_kabuli_chr04	30889129	CC	TT	1946812943
SNP_P4_53191_30889130	NC_021163.1	Ca_kabuli_chr04	30889130	GG	AA	1946812945
SNP_P4_53192_30889146	NC_021163.1	Ca_kabuli_chr04	30889146	TT	AA	1946812947
SNP_P4_53193_30897372	NC_021163.1	Ca_kabuli_chr04	30897372	TT	CC	1946812949
SNP_P4_53194_30897398	NC_021163.1	Ca_kabuli_chr04	30897398	TT	CC	1946812951
SNP_P4_53195_30897428	NC_021163.1	Ca_kabuli_chr04	30897428	TT	CC	1946812953
SNP_P4_53196_30897545	NC_021163.1	Ca_kabuli_chr04	30897545	CC	TT	1946812955
SNP_P4_53197_30897574	NC_021163.1	Ca_kabuli_chr04	30897574	TT	CC	1946812957
SNP_P4_53198_30897584	NC_021163.1	Ca_kabuli_chr04	30897584	TT	AA	1946812959
SNP_P4_53199_30897594	NC_021163.1	Ca_kabuli_chr04	30897594	GG	AA	1946812961
SNP_P4_53200_30897849	NC_021163.1	Ca_kabuli_chr04	30897849	AA	GG	1946812963
SNP_P4_53201_30897870	NC_021163.1	Ca_kabuli_chr04	30897870	AA	GG	1946812965
SNP_P4_53202_30897873	NC_021163.1	Ca_kabuli_chr04	30897873	TT	GG	1946812966
SNP_P4_53203_30897959	NC_021163.1	Ca_kabuli_chr04	30897959	CC	TT	1946812968
SNP_P4_53204_30897960	NC_021163.1	Ca_kabuli_chr04	30897960	AA	TT	1946812970
SNP_P4_53205_30898028	NC_021163.1	Ca_kabuli_chr04	30898028	CC	AA	1946812972
SNP_P4_53206_30918821	NC_021163.1	Ca_kabuli_chr04	30918821	TT	GG	1946812974
SNP_P4_53207_30924415	NC_021163.1	Ca_kabuli_chr04	30924415	AA	GG	1946812976
SNP_P4_53208_30928669	NC_021163.1	Ca_kabuli_chr04	30928669	AA	GG	1946812977
SNP_P4_53209_30928671	NC_021163.1	Ca_kabuli_chr04	30928671	GG	TT	1946812978
SNP_P4_53210_30928674	NC_021163.1	Ca_kabuli_chr04	30928674	CC	GG	1946812979

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_53213_30928842	NC_021163.1	Ca_kabuli_chr04	30928842	AA	CC	1946812981
SNP_P4_53214_30928872	NC_021163.1	Ca_kabuli_chr04	30928872	TT	CC	1946812982
SNP_P4_53215_30940007	NC_021163.1	Ca_kabuli_chr04	30940007	TT	GG	1946812983
SNP_P4_53216_30940141	NC_021163.1	Ca_kabuli_chr04	30940141	AA	TT	1946812984
SNP_P4_53217_30940189	NC_021163.1	Ca_kabuli_chr04	30940189	GG	TT	1946812985
SNP_P4_53218_30940480	NC_021163.1	Ca_kabuli_chr04	30940480	CC	TT	1946812986
SNP_P4_53219_30945352	NC_021163.1	Ca_kabuli_chr04	30945352	AA	GG	1946812987
SNP_P4_53220_30945578	NC_021163.1	Ca_kabuli_chr04	30945578	AA	GG	1946812988
SNP_P4_53221_30945809	NC_021163.1	Ca_kabuli_chr04	30945809	GG	AA	1946812989
SNP_P4_53222_30946345	NC_021163.1	Ca_kabuli_chr04	30946345	CC	GG	1946812990
SNP_P4_53224_30946359	NC_021163.1	Ca_kabuli_chr04	30946359	TT	CC	1946812991
SNP_P4_53225_30946375	NC_021163.1	Ca_kabuli_chr04	30946375	CC	AA	1946812992
SNP_P4_53226_30946379	NC_021163.1	Ca_kabuli_chr04	30946379	GG	AA	1946812993
SNP_P4_53227_30946417	NC_021163.1	Ca_kabuli_chr04	30946417	CC	TT	1946812994
SNP_P4_53228_30946688	NC_021163.1	Ca_kabuli_chr04	30946688	GG	AA	1946812995
SNP_P4_53229_30951498	NC_021163.1	Ca_kabuli_chr04	30951498	CC	TT	1946812996
SNP_P4_53230_30951680	NC_021163.1	Ca_kabuli_chr04	30951680	AA	CC	1946812997
SNP_P4_53231_30951835	NC_021163.1	Ca_kabuli_chr04	30951835	AA	GG	1946812998
SNP_P4_53232_30952222	NC_021163.1	Ca_kabuli_chr04	30952222	TT	AA	1946812999
SNP_P4_53233_30952403	NC_021163.1	Ca_kabuli_chr04	30952403	CC	AA	1946813000
SNP_P4_53234_30952909	NC_021163.1	Ca_kabuli_chr04	30952909	CC	TT	1946813001
SNP_P4_53235_30953041	NC_021163.1	Ca_kabuli_chr04	30953041	CC	TT	1946813002
SNP_P4_53236_30953054	NC_021163.1	Ca_kabuli_chr04	30953054	TT	AA	1946813003
SNP_P4_53237_30953247	NC_021163.1	Ca_kabuli_chr04	30953247	GG	AA	1946813004
SNP_P4_53238_30953269	NC_021163.1	Ca_kabuli_chr04	30953269	CC	TT	1946813005
SNP_P4_53239_30954202	NC_021163.1	Ca_kabuli_chr04	30954202	GG	AA	1946813006
SNP_P4_53240_30954217	NC_021163.1	Ca_kabuli_chr04	30954217	TT	CC	1946813007
SNP_P4_53241_30954512	NC_021163.1	Ca_kabuli_chr04	30954512	AA	GG	1946813008
SNP_P4_53243_30955665	NC_021163.1	Ca_kabuli_chr04	30955665	GG	AA	1946813009
SNP_P4_53244_30956472	NC_021163.1	Ca_kabuli_chr04	30956472	GG	AA	1946813010
SNP_P4_53246_30957161	NC_021163.1	Ca_kabuli_chr04	30957161	CC	TT	1946813011
SNP_P4_53248_30957346	NC_021163.1	Ca_kabuli_chr04	30957346	TT	AA	1946813012
SNP_P4_53249_30957390	NC_021163.1	Ca_kabuli_chr04	30957390	AA	CC	1946813014
SNP_P4_53251_30957651	NC_021163.1	Ca_kabuli_chr04	30957651	GG	TT	1946813016
SNP_P4_53252_30957906	NC_021163.1	Ca_kabuli_chr04	30957906	TT	GG	1946813018
SNP_P4_53253_30957980	NC_021163.1	Ca_kabuli_chr04	30957980	GG	AA	1946813020
SNP_P4_53254_30958013	NC_021163.1	Ca_kabuli_chr04	30958013	TT	GG	1946813022
SNP_P4_53255_30958040	NC_021163.1	Ca_kabuli_chr04	30958040	AA	GG	1946813024
SNP_P4_53256_30958086	NC_021163.1	Ca_kabuli_chr04	30958086	GG	AA	1946813026
SNP_P4_53257_30958382	NC_021163.1	Ca_kabuli_chr04	30958382	AA	GG	1946813028
SNP_P4_53258_30958534	NC_021163.1	Ca_kabuli_chr04	30958534	AA	TT	1946813030

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_53262_30958703	NC_021163.1	Ca_kabuli_chr04	30958703	TT	GG	1946813037
SNP_P4_53263_30958729	NC_021163.1	Ca_kabuli_chr04	30958729	TT	CC	1946813039
SNP_P4_53264_30958966	NC_021163.1	Ca_kabuli_chr04	30958966	TT	AA	1946813041
SNP_P4_53265_30959223	NC_021163.1	Ca_kabuli_chr04	30959223	GG	CC	1946813043
SNP_P4_53266_30962022	NC_021163.1	Ca_kabuli_chr04	30962022	CC	TT	1946813046
SNP_P4_53267_30964579	NC_021163.1	Ca_kabuli_chr04	30964579	GG	CC	1946813048
SNP_P4_53268_30964953	NC_021163.1	Ca_kabuli_chr04	30964953	CC	GG	1946813050
SNP_P4_53269_30965279	NC_021163.1	Ca_kabuli_chr04	30965279	TT	GG	1946813052
SNP_P4_53270_30965322	NC_021163.1	Ca_kabuli_chr04	30965322	CC	AA	1946813054
SNP_P4_53272_30965974	NC_021163.1	Ca_kabuli_chr04	30965974	TT	CC	1946813056
SNP_P4_53273_30980299	NC_021163.1	Ca_kabuli_chr04	30980299	CC	GG	1946813059
SNP_P4_53274_30980344	NC_021163.1	Ca_kabuli_chr04	30980344	CC	TT	1946813061
SNP_P4_53275_30980357	NC_021163.1	Ca_kabuli_chr04	30980357	CC	TT	1946813063
SNP_P4_53276_30980363	NC_021163.1	Ca_kabuli_chr04	30980363	CC	TT	1946813065
SNP_P4_53277_30982341	NC_021163.1	Ca_kabuli_chr04	30982341	GG	AA	1946813067
SNP_P4_53278_30982606	NC_021163.1	Ca_kabuli_chr04	30982606	GG	AA	1946813069
SNP_P4_53279_30982877	NC_021163.1	Ca_kabuli_chr04	30982877	AA	TT	1946813071
SNP_P4_53280_30982993	NC_021163.1	Ca_kabuli_chr04	30982993	CC	AA	1946813073
SNP_P4_53281_30983079	NC_021163.1	Ca_kabuli_chr04	30983079	AA	GG	1946813075
SNP_P4_53282_30983112	NC_021163.1	Ca_kabuli_chr04	30983112	AA	GG	1946813077
SNP_P4_53283_30983205	NC_021163.1	Ca_kabuli_chr04	30983205	AA	TT	1946813079
SNP_P4_53284_30983244	NC_021163.1	Ca_kabuli_chr04	30983244	GG	AA	1946813081
SNP_P4_53285_30983351	NC_021163.1	Ca_kabuli_chr04	30983351	TT	GG	1946813084
SNP_P4_53286_30983392	NC_021163.1	Ca_kabuli_chr04	30983392	TT	CC	1946813086
SNP_P4_53287_30983460	NC_021163.1	Ca_kabuli_chr04	30983460	TT	GG	1946813088
SNP_P4_53288_30983700	NC_021163.1	Ca_kabuli_chr04	30983700	GG	AA	1946813090
SNP_P4_53289_30983901	NC_021163.1	Ca_kabuli_chr04	30983901	TT	CC	1946813092
SNP_P4_53290_30998072	NC_021163.1	Ca_kabuli_chr04	30998072	AA	GG	1946813094
SNP_P4_53291_30998109	NC_021163.1	Ca_kabuli_chr04	30998109	AA	GG	1946813096
SNP_P4_53292_30999031	NC_021163.1	Ca_kabuli_chr04	30999031	TT	CC	1946813098
SNP_P4_53293_31000125	NC_021163.1	Ca_kabuli_chr04	31000125	GG	AA	1946813100
SNP_P4_53294_31000134	NC_021163.1	Ca_kabuli_chr04	31000134	TT	AA	1946813102
SNP_P4_53295_31000144	NC_021163.1	Ca_kabuli_chr04	31000144	CC	AA	1946813104
SNP_P4_53296_31001287	NC_021163.1	Ca_kabuli_chr04	31001287	GG	AA	1946813106
SNP_P4_53297_31001425	NC_021163.1	Ca_kabuli_chr04	31001425	AA	GG	1946813108
SNP_P4_53298_31001470	NC_021163.1	Ca_kabuli_chr04	31001470	AA	GG	1946813110
SNP_P4_53300_31012369	NC_021163.1	Ca_kabuli_chr04	31012369	AA	CC	1946813112
SNP_P4_53301_31012446	NC_021163.1	Ca_kabuli_chr04	31012446	GG	AA	1946813114
SNP_P4_53302_31012453	NC_021163.1	Ca_kabuli_chr04	31012453	CC	TT	1946813116
SNP_P4_53303_31012586	NC_021163.1	Ca_kabuli_chr04	31012586	GG	AA	1946813118

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_53305_31012590	NC_021163.1	Ca_kabuli_chr04	31012590	GG	CC	1946813122
SNP_P4_53306_31012597	NC_021163.1	Ca_kabuli_chr04	31012597	AA	GG	1946813124
SNP_P4_53307_31012604	NC_021163.1	Ca_kabuli_chr04	31012604	TT	CC	1946813126
SNP_P4_53308_31012678	NC_021163.1	Ca_kabuli_chr04	31012678	TT	CC	1946813128
SNP_P4_53309_31015100	NC_021163.1	Ca_kabuli_chr04	31015100	CC	TT	1946813130
SNP_P4_53310_31015913	NC_021163.1	Ca_kabuli_chr04	31015913	AA	GG	1946813132
SNP_P4_53311_31015918	NC_021163.1	Ca_kabuli_chr04	31015918	CC	TT	1946813134
SNP_P4_53312_31015941	NC_021163.1	Ca_kabuli_chr04	31015941	CC	GG	1946813136
SNP_P4_53313_31015950	NC_021163.1	Ca_kabuli_chr04	31015950	GG	AA	1946813138
SNP_P4_53315_31016051	NC_021163.1	Ca_kabuli_chr04	31016051	GG	AA	1946813140
SNP_P4_53316_31016547	NC_021163.1	Ca_kabuli_chr04	31016547	GG	AA	1946813142
SNP_P4_53317_31016580	NC_021163.1	Ca_kabuli_chr04	31016580	GG	TT	1946813144
SNP_P4_53318_31016585	NC_021163.1	Ca_kabuli_chr04	31016585	TT	CC	1946813146
SNP_P4_53319_31016587	NC_021163.1	Ca_kabuli_chr04	31016587	GG	AA	1946813148
SNP_P4_53320_31022916	NC_021163.1	Ca_kabuli_chr04	31022916	GG	AA	1946813150
SNP_P4_53321_31022971	NC_021163.1	Ca_kabuli_chr04	31022971	CC	TT	1946813152
SNP_P4_53322_31023021	NC_021163.1	Ca_kabuli_chr04	31023021	CC	AA	1946813154
SNP_P4_53323_31023243	NC_021163.1	Ca_kabuli_chr04	31023243	CC	TT	1946813156
SNP_P4_53324_31023244	NC_021163.1	Ca_kabuli_chr04	31023244	AA	CC	1946813158
SNP_P4_53326_31024552	NC_021163.1	Ca_kabuli_chr04	31024552	GG	AA	1946813160
SNP_P4_53327_31025544	NC_021163.1	Ca_kabuli_chr04	31025544	AA	GG	1946813162
SNP_P4_53328_31025920	NC_021163.1	Ca_kabuli_chr04	31025920	GG	AA	1946813164
SNP_P4_53329_31025930	NC_021163.1	Ca_kabuli_chr04	31025930	AA	TT	1946813166
SNP_P4_53330_31025937	NC_021163.1	Ca_kabuli_chr04	31025937	GG	CC	1946813168
SNP_P4_53331_31025939	NC_021163.1	Ca_kabuli_chr04	31025939	GG	CC	1946813170
SNP_P4_53332_31026395	NC_021163.1	Ca_kabuli_chr04	31026395	TT	CC	1946813172
SNP_P4_53333_31026400	NC_021163.1	Ca_kabuli_chr04	31026400	AA	GG	1946813174
SNP_P4_53334_31026582	NC_021163.1	Ca_kabuli_chr04	31026582	AA	TT	1946813176
SNP_P4_53335_31026585	NC_021163.1	Ca_kabuli_chr04	31026585	TT	CC	1946813178
SNP_P4_53336_31026590	NC_021163.1	Ca_kabuli_chr04	31026590	TT	GG	1946813180
SNP_P4_53337_31026618	NC_021163.1	Ca_kabuli_chr04	31026618	CC	TT	1946813182
SNP_P4_53338_31026663	NC_021163.1	Ca_kabuli_chr04	31026663	TT	CC	1946813184
SNP_P4_53339_31026665	NC_021163.1	Ca_kabuli_chr04	31026665	GG	AA	1946813186
SNP_P4_53340_31027784	NC_021163.1	Ca_kabuli_chr04	31027784	TT	CC	1946813188
SNP_P4_53341_31028655	NC_021163.1	Ca_kabuli_chr04	31028655	CC	TT	1946813190
SNP_P4_53342_31029104	NC_021163.1	Ca_kabuli_chr04	31029104	CC	GG	1946813192
SNP_P4_53344_31029252	NC_021163.1	Ca_kabuli_chr04	31029252	CC	AA	1946813194
SNP_P4_53345_31029260	NC_021163.1	Ca_kabuli_chr04	31029260	GG	AA	1946813196
SNP_P4_53346_31029346	NC_021163.1	Ca_kabuli_chr04	31029346	AA	TT	1946813198
SNP_P4_53347_31041512	NC_021163.1	Ca_kabuli_chr04	31041512	TT	AA	1946813200
SNP_P4_53348_31051358	NC_021163.1	Ca_kabuli_chr04	31051358	GG	AA	1946813202

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_53351_31051426	NC_021163.1	Ca_kabuli_chr04	31051426	AA	GG	1946813208
SNP_P4_53352_31051453	NC_021163.1	Ca_kabuli_chr04	31051453	TT	CC	1946813210
SNP_P4_53353_31051627	NC_021163.1	Ca_kabuli_chr04	31051627	GG	AA	1946813212
SNP_P4_53354_31051674	NC_021163.1	Ca_kabuli_chr04	31051674	GG	AA	1946813214
SNP_P4_53355_31051677	NC_021163.1	Ca_kabuli_chr04	31051677	GG	CC	1946813216
SNP_P4_53356_31052251	NC_021163.1	Ca_kabuli_chr04	31052251	AA	CC	1946813218
SNP_P4_53357_31052276	NC_021163.1	Ca_kabuli_chr04	31052276	TT	CC	1946813220
SNP_P4_53358_31052282	NC_021163.1	Ca_kabuli_chr04	31052282	CC	TT	1946813222
SNP_P4_53359_31053250	NC_021163.1	Ca_kabuli_chr04	31053250	GG	AA	1946813224
SNP_P4_53360_31053281	NC_021163.1	Ca_kabuli_chr04	31053281	GG	TT	1946813226
SNP_P4_53361_31053622	NC_021163.1	Ca_kabuli_chr04	31053622	CC	TT	1946813228
SNP_P4_53362_31053660	NC_021163.1	Ca_kabuli_chr04	31053660	AA	TT	1946813230
SNP_P4_53363_31053784	NC_021163.1	Ca_kabuli_chr04	31053784	AA	GG	1946813232
SNP_P4_53364_31053804	NC_021163.1	Ca_kabuli_chr04	31053804	GG	AA	1946813234
SNP_P4_53365_31053862	NC_021163.1	Ca_kabuli_chr04	31053862	CC	GG	1946813236
SNP_P4_53366_31053898	NC_021163.1	Ca_kabuli_chr04	31053898	CC	TT	1946813238
SNP_P4_53367_31053925	NC_021163.1	Ca_kabuli_chr04	31053925	TT	AA	1946813240
SNP_P4_53368_31053945	NC_021163.1	Ca_kabuli_chr04	31053945	GG	AA	1946813242
SNP_P4_53369_31054078	NC_021163.1	Ca_kabuli_chr04	31054078	AA	TT	1946813244
SNP_P4_53370_31054276	NC_021163.1	Ca_kabuli_chr04	31054276	TT	CC	1946813246
SNP_P4_53371_31054277	NC_021163.1	Ca_kabuli_chr04	31054277	TT	CC	1946813248
SNP_P4_53372_31054896	NC_021163.1	Ca_kabuli_chr04	31054896	GG	AA	1946813250
SNP_P4_53373_31054900	NC_021163.1	Ca_kabuli_chr04	31054900	TT	CC	1946813252
SNP_P4_53374_31054902	NC_021163.1	Ca_kabuli_chr04	31054902	TT	CC	1946813254
SNP_P4_53375_31055212	NC_021163.1	Ca_kabuli_chr04	31055212	GG	AA	1946813256
SNP_P4_53376_31055221	NC_021163.1	Ca_kabuli_chr04	31055221	TT	AA	1946813258
SNP_P4_53379_31055780	NC_021163.1	Ca_kabuli_chr04	31055780	AA	CC	1946813260
SNP_P4_53380_31055787	NC_021163.1	Ca_kabuli_chr04	31055787	AA	GG	1946813262
SNP_P4_53381_31055811	NC_021163.1	Ca_kabuli_chr04	31055811	AA	GG	1946813264
SNP_P4_53382_31055918	NC_021163.1	Ca_kabuli_chr04	31055918	AA	GG	1946813266
SNP_P4_53383_31056001	NC_021163.1	Ca_kabuli_chr04	31056001	AA	GG	1946813268
SNP_P4_53384_31056205	NC_021163.1	Ca_kabuli_chr04	31056205	TT	AA	1946813270
SNP_P4_53385_31056417	NC_021163.1	Ca_kabuli_chr04	31056417	GG	AA	1946813272
SNP_P4_53386_31056418	NC_021163.1	Ca_kabuli_chr04	31056418	GG	AA	1946813274
SNP_P4_53387_31057610	NC_021163.1	Ca_kabuli_chr04	31057610	GG	CC	1946813276
SNP_P4_53388_31057623	NC_021163.1	Ca_kabuli_chr04	31057623	AA	CC	1946813278
SNP_P4_53389_31057813	NC_021163.1	Ca_kabuli_chr04	31057813	TT	CC	1946813280
SNP_P4_53390_31057962	NC_021163.1	Ca_kabuli_chr04	31057962	GG	TT	1946813282
SNP_P4_53391_31060881	NC_021163.1	Ca_kabuli_chr04	31060881	AA	TT	1946813284
SNP_P4_53392_31061098	NC_021163.1	Ca_kabuli_chr04	31061098	GG	AA	1946813286

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_53394_31061157	NC_021163.1	Ca_kabuli_chr04	31061157	CC	TT	1946813290
SNP_P4_53395_31061191	NC_021163.1	Ca_kabuli_chr04	31061191	CC	TT	1946813292
SNP_P4_53396_31061211	NC_021163.1	Ca_kabuli_chr04	31061211	AA	CC	1946813294
SNP_P4_53397_31061287	NC_021163.1	Ca_kabuli_chr04	31061287	GG	AA	1946813296
SNP_P4_53398_31061293	NC_021163.1	Ca_kabuli_chr04	31061293	GG	AA	1946813298
SNP_P4_53399_31061295	NC_021163.1	Ca_kabuli_chr04	31061295	GG	TT	1946813300
SNP_P4_53400_31061445	NC_021163.1	Ca_kabuli_chr04	31061445	AA	GG	1946813302
SNP_P4_53401_31061499	NC_021163.1	Ca_kabuli_chr04	31061499	CC	GG	1946813304
SNP_P4_53402_31061842	NC_021163.1	Ca_kabuli_chr04	31061842	CC	TT	1946813306
SNP_P4_53403_31062672	NC_021163.1	Ca_kabuli_chr04	31062672	CC	TT	1946813308
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SNP_P4_53407_31063884	NC_021163.1	Ca_kabuli_chr04	31063884	AA	CC	1946813316
SNP_P4_53408_31066094	NC_021163.1	Ca_kabuli_chr04	31066094	TT	GG	1946813318
SNP_P4_53409_31066124	NC_021163.1	Ca_kabuli_chr04	31066124	AA	GG	1946813320
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SNP_P4_53413_31071277	NC_021163.1	Ca_kabuli_chr04	31071277	TT	CC	1946813328
SNP_P4_53414_31071299	NC_021163.1	Ca_kabuli_chr04	31071299	GG	AA	1946813330
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SNP_P4_53419_31075612	NC_021163.1	Ca_kabuli_chr04	31075612	TT	CC	1946813340
SNP_P4_53420_31075694	NC_021163.1	Ca_kabuli_chr04	31075694	GG	TT	1946813342
SNP_P4_53421_31077499	NC_021163.1	Ca_kabuli_chr04	31077499	CC	TT	1946813344
SNP_P4_53422_31077501	NC_021163.1	Ca_kabuli_chr04	31077501	AA	GG	1946813346
SNP_P4_53423_31079279	NC_021163.1	Ca_kabuli_chr04	31079279	TT	GG	1946813348
SNP_P4_53424_31079302	NC_021163.1	Ca_kabuli_chr04	31079302	AA	GG	1946813350
SNP_P4_53425_31079310	NC_021163.1	Ca_kabuli_chr04	31079310	AA	CC	1946813352
SNP_P4_53426_31079327	NC_021163.1	Ca_kabuli_chr04	31079327	AA	GG	1946813354
SNP_P4_53427_31079332	NC_021163.1	Ca_kabuli_chr04	31079332	AA	GG	1946813356
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SNP_P4_53429_31079854	NC_021163.1	Ca_kabuli_chr04	31079854	TT	CC	1946813360
SNP_P4_53430_31079881	NC_021163.1	Ca_kabuli_chr04	31079881	TT	GG	1946813362
SNP_P4_53431_31080136	NC_021163.1	Ca_kabuli_chr04	31080136	GG	AA	1946813364
SNP_P4_53432_31080140	NC_021163.1	Ca_kabuli_chr04	31080140	AA	GG	1946813366
SNP_P4_53433_31080161	NC_021163.1	Ca_kabuli_chr04	31080161	TT	CC	1946813368
SNP_P4_53434_31081929	NC_021163.1	Ca_kabuli_chr04	31081929	CC	TT	1946813370

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_53437_31101273	NC_021163.1	Ca_kabuli_chr04	31101273	AA	GG	1946813376
SNP_P4_53438_31101275	NC_021163.1	Ca_kabuli_chr04	31101275	TT	CC	1946813378
SNP_P4_53439_31101311	NC_021163.1	Ca_kabuli_chr04	31101311	TT	AA	1946813380
SNP_P4_53441_31101614	NC_021163.1	Ca_kabuli_chr04	31101614	TT	GG	1946813382
SNP_P4_53442_31102556	NC_021163.1	Ca_kabuli_chr04	31102556	TT	CC	1946813384
SNP_P4_53443_31104667	NC_021163.1	Ca_kabuli_chr04	31104667	TT	AA	1946813386
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SNP_P4_53445_31104881	NC_021163.1	Ca_kabuli_chr04	31104881	GG	AA	1946813390
SNP_P4_53446_31106271	NC_021163.1	Ca_kabuli_chr04	31106271	TT	GG	1946813392
SNP_P4_53448_31106368	NC_021163.1	Ca_kabuli_chr04	31106368	TT	AA	1946813394
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SNP_P4_53452_31107627	NC_021163.1	Ca_kabuli_chr04	31107627	CC	AA	1946813400
SNP_P4_53454_31107743	NC_021163.1	Ca_kabuli_chr04	31107743	AA	GG	1946813402
SNP_P4_53455_31107762	NC_021163.1	Ca_kabuli_chr04	31107762	GG	AA	1946813404
SNP_P4_53456_31107845	NC_021163.1	Ca_kabuli_chr04	31107845	CC	TT	1946813406
SNP_P4_53457_31107846	NC_021163.1	Ca_kabuli_chr04	31107846	AA	GG	1946813408
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SNP_P4_53460_31107977	NC_021163.1	Ca_kabuli_chr04	31107977	TT	GG	1946813414
SNP_P4_53461_31107986	NC_021163.1	Ca_kabuli_chr04	31107986	GG	AA	1946813416
SNP_P4_53462_31108047	NC_021163.1	Ca_kabuli_chr04	31108047	GG	TT	1946813418
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SNP_P4_53467_31108746	NC_021163.1	Ca_kabuli_chr04	31108746	CC	AA	1946813428
SNP_P4_53468_31109541	NC_021163.1	Ca_kabuli_chr04	31109541	TT	GG	1946813430
SNP_P4_53469_31109565	NC_021163.1	Ca_kabuli_chr04	31109565	CC	GG	1946813432
SNP_P4_53470_31109789	NC_021163.1	Ca_kabuli_chr04	31109789	AA	GG	1946813434
SNP_P4_53471_31109951	NC_021163.1	Ca_kabuli_chr04	31109951	CC	TT	1946813436
SNP_P4_53472_31110765	NC_021163.1	Ca_kabuli_chr04	31110765	TT	CC	1946813438
SNP_P4_53473_31111559	NC_021163.1	Ca_kabuli_chr04	31111559	AA	CC	1946813440
SNP_P4_53474_31111588	NC_021163.1	Ca_kabuli_chr04	31111588	TT	CC	1946813442
SNP_P4_53475_31111597	NC_021163.1	Ca_kabuli_chr04	31111597	TT	CC	1946813444
SNP_P4_53476_31111621	NC_021163.1	Ca_kabuli_chr04	31111621	TT	CC	1946813446
SNP_P4_53477_31113104	NC_021163.1	Ca_kabuli_chr04	31113104	CC	TT	1946813449
SNP_P4_53478_31113137	NC_021163.1	Ca_kabuli_chr04	31113137	TT	GG	1946813451
SNP_P4_53479_31113174	NC_021163.1	Ca_kabuli_chr04	31113174	GG	AA	1946813453
SNP_P4_53480_31113212	NC_021163.1	Ca_kabuli_chr04	31113212	GG	AA	1946813455

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_53481_31113220	NC_021163.1	Ca_kabuli_chr04	31113220	CC	TT	1946813457
SNP_P4_53483_31114434	NC_021163.1	Ca_kabuli_chr04	31114434	TT	CC	1946813459
SNP_P4_53484_31114438	NC_021163.1	Ca_kabuli_chr04	31114438	GG	AA	1946813461
SNP_P4_53485_31114452	NC_021163.1	Ca_kabuli_chr04	31114452	TT	AA	1946813463
SNP_P4_53486_31114472	NC_021163.1	Ca_kabuli_chr04	31114472	GG	AA	1946813465
SNP_P4_53487_31114624	NC_021163.1	Ca_kabuli_chr04	31114624	CC	GG	1946813467
SNP_P4_53488_31114628	NC_021163.1	Ca_kabuli_chr04	31114628	CC	TT	1946813469
SNP_P4_53489_31114661	NC_021163.1	Ca_kabuli_chr04	31114661	GG	AA	1946813471
SNP_P4_53490_31114745	NC_021163.1	Ca_kabuli_chr04	31114745	CC	AA	1946813473
SNP_P4_53492_31115009	NC_021163.1	Ca_kabuli_chr04	31115009	TT	GG	1946813475
SNP_P4_53493_31115049	NC_021163.1	Ca_kabuli_chr04	31115049	CC	TT	1946813477
SNP_P4_53494_31115068	NC_021163.1	Ca_kabuli_chr04	31115068	TT	CC	1946813479
SNP_P4_53495_31115117	NC_021163.1	Ca_kabuli_chr04	31115117	CC	TT	1946813480
SNP_P4_53496_31115381	NC_021163.1	Ca_kabuli_chr04	31115381	GG	AA	1946813482
SNP_P4_53497_31115621	NC_021163.1	Ca_kabuli_chr04	31115621	GG	AA	1946813484
SNP_P4_53498_31115627	NC_021163.1	Ca_kabuli_chr04	31115627	AA	CC	1946813486
SNP_P4_53499_31115867	NC_021163.1	Ca_kabuli_chr04	31115867	TT	AA	1946813488
SNP_P4_53500_31115871	NC_021163.1	Ca_kabuli_chr04	31115871	CC	TT	1946813491
SNP_P4_53501_31115900	NC_021163.1	Ca_kabuli_chr04	31115900	GG	TT	1946813493
SNP_P4_53502_31116389	NC_021163.1	Ca_kabuli_chr04	31116389	TT	CC	1946813495
SNP_P4_53503_31116416	NC_021163.1	Ca_kabuli_chr04	31116416	TT	GG	1946813497
SNP_P4_53505_31118051	NC_021163.1	Ca_kabuli_chr04	31118051	GG	AA	1946813499
SNP_P4_53506_31118062	NC_021163.1	Ca_kabuli_chr04	31118062	CC	AA	1946813501
SNP_P4_53507_31119219	NC_021163.1	Ca_kabuli_chr04	31119219	AA	CC	1946813503
SNP_P4_53508_31119257	NC_021163.1	Ca_kabuli_chr04	31119257	TT	GG	1946813505
SNP_P4_53509_31119308	NC_021163.1	Ca_kabuli_chr04	31119308	GG	AA	1946813507
SNP_P4_53510_31119309	NC_021163.1	Ca_kabuli_chr04	31119309	GG	AA	1946813509
SNP_P4_53511_31119311	NC_021163.1	Ca_kabuli_chr04	31119311	AA	TT	1946813511
SNP_P4_53512_31120517	NC_021163.1	Ca_kabuli_chr04	31120517	TT	CC	1946813513
SNP_P4_53513_31120524	NC_021163.1	Ca_kabuli_chr04	31120524	GG	TT	1946813514
SNP_P4_53514_31120534	NC_021163.1	Ca_kabuli_chr04	31120534	CC	TT	1946813516
SNP_P4_53515_31120606	NC_021163.1	Ca_kabuli_chr04	31120606	TT	CC	1946813518
SNP_P4_53516_31120635	NC_021163.1	Ca_kabuli_chr04	31120635	GG	AA	1946813520
SNP_P4_53517_31120975	NC_021163.1	Ca_kabuli_chr04	31120975	CC	AA	1946813522
SNP_P4_53518_31121298	NC_021163.1	Ca_kabuli_chr04	31121298	CC	TT	1946813524
SNP_P4_53519_31121326	NC_021163.1	Ca_kabuli_chr04	31121326	TT	CC	1946813526
SNP_P4_53520_31122093	NC_021163.1	Ca_kabuli_chr04	31122093	TT	CC	1946813528
SNP_P4_53522_31123245	NC_021163.1	Ca_kabuli_chr04	31123245	CC	TT	1946813530
SNP_P4_53523_31123248	NC_021163.1	Ca_kabuli_chr04	31123248	AA	TT	1946813531
SNP_P4_53524_31123284	NC_021163.1	Ca_kabuli_chr04	31123284	TT	CC	1946813533
SNP_P4_53525_31123559	NC_021163.1	Ca_kabuli_chr04	31123559	AA	TT	1946813535
SNP_P4_53526_31123659	NC_021163.1	Ca_kabuli_chr04	31123659	AA	GG	1946813537

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_53528_31124490	NC_021163.1	Ca_kabuli_chr04	31124490	CC	AA	1946813541
SNP_P4_53529_31124590	NC_021163.1	Ca_kabuli_chr04	31124590	TT	GG	1946813542
SNP_P4_53530_31124624	NC_021163.1	Ca_kabuli_chr04	31124624	CC	AA	1946813543
SNP_P4_53531_31124926	NC_021163.1	Ca_kabuli_chr04	31124926	GG	AA	1946813545
SNP_P4_53532_31127193	NC_021163.1	Ca_kabuli_chr04	31127193	GG	AA	1946813546
SNP_P4_53533_31127194	NC_021163.1	Ca_kabuli_chr04	31127194	CC	AA	1946813548
SNP_P4_53534_31127215	NC_021163.1	Ca_kabuli_chr04	31127215	AA	CC	1946813550
SNP_P4_53535_31127514	NC_021163.1	Ca_kabuli_chr04	31127514	CC	TT	1946813552
SNP_P4_53537_31129439	NC_021163.1	Ca_kabuli_chr04	31129439	TT	AA	1946813554
SNP_P4_53539_31129775	NC_021163.1	Ca_kabuli_chr04	31129775	GG	AA	1946813556
SNP_P4_53540_31129808	NC_021163.1	Ca_kabuli_chr04	31129808	CC	AA	1946813558
SNP_P4_53541_31135399	NC_021163.1	Ca_kabuli_chr04	31135399	TT	CC	1946813560
SNP_P4_53542_31135704	NC_021163.1	Ca_kabuli_chr04	31135704	GG	AA	1946813563
SNP_P4_53543_31136453	NC_021163.1	Ca_kabuli_chr04	31136453	GG	AA	1946813565
SNP_P4_53544_31138249	NC_021163.1	Ca_kabuli_chr04	31138249	AA	GG	1946813567
SNP_P4_53545_31138280	NC_021163.1	Ca_kabuli_chr04	31138280	TT	CC	1946813569
SNP_P4_53546_31143667	NC_021163.1	Ca_kabuli_chr04	31143667	GG	CC	1946813571
SNP_P4_53547_31143677	NC_021163.1	Ca_kabuli_chr04	31143677	GG	AA	1946813573
SNP_P4_53549_31144808	NC_021163.1	Ca_kabuli_chr04	31144808	AA	GG	1946813575
SNP_P4_53550_31147737	NC_021163.1	Ca_kabuli_chr04	31147737	GG	AA	1946813577
SNP_P4_53551_31148553	NC_021163.1	Ca_kabuli_chr04	31148553	TT	CC	1946813579
SNP_P4_53553_31150177	NC_021163.1	Ca_kabuli_chr04	31150177	GG	AA	1946813581
SNP_P4_53554_31153153	NC_021163.1	Ca_kabuli_chr04	31153153	TT	GG	1946813583
SNP_P4_53555_31157702	NC_021163.1	Ca_kabuli_chr04	31157702	AA	GG	1946813585
SNP_P4_53558_31173183	NC_021163.1	Ca_kabuli_chr04	31173183	TT	CC	1946813587
SNP_P4_53559_31176309	NC_021163.1	Ca_kabuli_chr04	31176309	AA	TT	1946813589
SNP_P4_53560_31180815	NC_021163.1	Ca_kabuli_chr04	31180815	GG	TT	1946813591
SNP_P4_53561_31182314	NC_021163.1	Ca_kabuli_chr04	31182314	TT	CC	1946813593
SNP_P4_53562_31182635	NC_021163.1	Ca_kabuli_chr04	31182635	TT	AA	1946813594
SNP_P4_53563_31182658	NC_021163.1	Ca_kabuli_chr04	31182658	TT	CC	1946813596
SNP_P4_53564_31182675	NC_021163.1	Ca_kabuli_chr04	31182675	GG	AA	1946813598
SNP_P4_53565_31182680	NC_021163.1	Ca_kabuli_chr04	31182680	AA	GG	1946813600
SNP_P4_53566_31184630	NC_021163.1	Ca_kabuli_chr04	31184630	AA	GG	1946813602
SNP_P4_53567_31186437	NC_021163.1	Ca_kabuli_chr04	31186437	TT	CC	1946813604
SNP_P4_53568_31187928	NC_021163.1	Ca_kabuli_chr04	31187928	GG	AA	1946813606
SNP_P4_53569_31189832	NC_021163.1	Ca_kabuli_chr04	31189832	AA	GG	1946813608
SNP_P4_53572_31206670	NC_021163.1	Ca_kabuli_chr04	31206670	GG	CC	1946813611
SNP_P4_53573_31206722	NC_021163.1	Ca_kabuli_chr04	31206722	CC	AA	1946813613
SNP_P4_53574_31206741	NC_021163.1	Ca_kabuli_chr04	31206741	AA	TT	1946813615
SNP_P4_53575_31207358	NC_021163.1	Ca_kabuli_chr04	31207358	GG	TT	1946813617
SNP_P4_53576_31208013	NC_021163.1	Ca_kabuli_chr04	31208013	CC	TT	1946813619

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_53578_31212342	NC_021163.1	Ca_kabuli_chr04	31212342	GG	AA	1946813623
SNP_P4_53579_31212352	NC_021163.1	Ca_kabuli_chr04	31212352	AA	TT	1946813625
SNP_P4_53580_31220869	NC_021163.1	Ca_kabuli_chr04	31220869	AA	GG	1946813627
SNP_P4_53583_31221993	NC_021163.1	Ca_kabuli_chr04	31221993	GG	AA	1946813629
SNP_P4_53584_31222197	NC_021163.1	Ca_kabuli_chr04	31222197	CC	TT	1946813631
SNP_P4_53585_31222645	NC_021163.1	Ca_kabuli_chr04	31222645	AA	GG	1946813633
SNP_P4_53586_31222868	NC_021163.1	Ca_kabuli_chr04	31222868	GG	AA	1946813635
SNP_P4_53587_31223193	NC_021163.1	Ca_kabuli_chr04	31223193	TT	CC	1946813637
SNP_P4_53588_31224985	NC_021163.1	Ca_kabuli_chr04	31224985	AA	TT	1946813639
SNP_P4_53589_31225894	NC_021163.1	Ca_kabuli_chr04	31225894	GG	TT	1946813641
SNP_P4_53590_31226887	NC_021163.1	Ca_kabuli_chr04	31226887	GG	AA	1946813643
SNP_P4_53591_31231053	NC_021163.1	Ca_kabuli_chr04	31231053	CC	GG	1946813645
SNP_P4_53592_31231150	NC_021163.1	Ca_kabuli_chr04	31231150	AA	GG	1946813647
SNP_P4_53593_31231209	NC_021163.1	Ca_kabuli_chr04	31231209	TT	GG	1946813649
SNP_P4_53594_31231230	NC_021163.1	Ca_kabuli_chr04	31231230	CC	TT	1946813651
SNP_P4_53595_31232853	NC_021163.1	Ca_kabuli_chr04	31232853	GG	AA	1946813653
SNP_P4_53596_31233818	NC_021163.1	Ca_kabuli_chr04	31233818	CC	TT	1946813655
SNP_P4_53597_31233820	NC_021163.1	Ca_kabuli_chr04	31233820	TT	CC	1946813657
SNP_P4_53598_31233865	NC_021163.1	Ca_kabuli_chr04	31233865	GG	AA	1946813659
SNP_P4_53599_31234047	NC_021163.1	Ca_kabuli_chr04	31234047	CC	AA	1946813661
SNP_P4_53600_31234456	NC_021163.1	Ca_kabuli_chr04	31234456	TT	CC	1946813663
SNP_P4_53601_31234600	NC_021163.1	Ca_kabuli_chr04	31234600	CC	TT	1946813665
SNP_P4_53602_31234628	NC_021163.1	Ca_kabuli_chr04	31234628	AA	GG	1946813667
SNP_P4_53603_31234797	NC_021163.1	Ca_kabuli_chr04	31234797	GG	TT	1946813669
SNP_P4_53604_31234800	NC_021163.1	Ca_kabuli_chr04	31234800	TT	CC	1946813671
SNP_P4_53605_31234898	NC_021163.1	Ca_kabuli_chr04	31234898	TT	CC	1946813673
SNP_P4_53607_31248559	NC_021163.1	Ca_kabuli_chr04	31248559	AA	TT	1946813675
SNP_P4_53608_31248560	NC_021163.1	Ca_kabuli_chr04	31248560	CC	TT	1946813677
SNP_P4_53611_31250568	NC_021163.1	Ca_kabuli_chr04	31250568	CC	GG	1946813679
SNP_P4_53614_31251680	NC_021163.1	Ca_kabuli_chr04	31251680	TT	CC	1946813681
SNP_P4_53615_31251793	NC_021163.1	Ca_kabuli_chr04	31251793	AA	GG	1946813683
SNP_P4_53616_31252018	NC_021163.1	Ca_kabuli_chr04	31252018	GG	CC	1946813685
SNP_P4_53617_31252019	NC_021163.1	Ca_kabuli_chr04	31252019	GG	AA	1946813687
SNP_P4_53618_31252022	NC_021163.1	Ca_kabuli_chr04	31252022	CC	GG	1946813689
SNP_P4_53619_31252023	NC_021163.1	Ca_kabuli_chr04	31252023	TT	CC	1946813691
SNP_P4_53620_31252070	NC_021163.1	Ca_kabuli_chr04	31252070	CC	TT	1946813693
SNP_P4_53621_31252078	NC_021163.1	Ca_kabuli_chr04	31252078	CC	TT	1946813695
SNP_P4_53622_31252193	NC_021163.1	Ca_kabuli_chr04	31252193	TT	CC	1946813697
SNP_P4_53623_31252328	NC_021163.1	Ca_kabuli_chr04	31252328	TT	CC	1946813699
SNP_P4_53624_31253448	NC_021163.1	Ca_kabuli_chr04	31253448	CC	AA	1946813701
SNP_P4_53625_31253455	NC_021163.1	Ca_kabuli_chr04	31253455	AA	GG	1946813703

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_53627_31254151	NC_021163.1	Ca_kabuli_chr04	31254151	TT	AA	1946813707
SNP_P4_53628_31254281	NC_021163.1	Ca_kabuli_chr04	31254281	GG	AA	1946813709
SNP_P4_53629_31254309	NC_021163.1	Ca_kabuli_chr04	31254309	TT	CC	1946813711
SNP_P4_53631_31257622	NC_021163.1	Ca_kabuli_chr04	31257622	TT	AA	1946813713
SNP_P4_53632_31259323	NC_021163.1	Ca_kabuli_chr04	31259323	TT	CC	1946813715
SNP_P4_53633_31259336	NC_021163.1	Ca_kabuli_chr04	31259336	AA	GG	1946813717
SNP_P4_53635_31262371	NC_021163.1	Ca_kabuli_chr04	31262371	AA	GG	1946813719
SNP_P4_53636_31263900	NC_021163.1	Ca_kabuli_chr04	31263900	TT	CC	1946813721
SNP_P4_53638_31270683	NC_021163.1	Ca_kabuli_chr04	31270683	TT	CC	1946813723
SNP_P4_53640_31275441	NC_021163.1	Ca_kabuli_chr04	31275441	AA	GG	1946813725
SNP_P4_53642_31276654	NC_021163.1	Ca_kabuli_chr04	31276654	TT	CC	1946813727
SNP_P4_53643_31276944	NC_021163.1	Ca_kabuli_chr04	31276944	GG	AA	1946813729
SNP_P4_53644_31282559	NC_021163.1	Ca_kabuli_chr04	31282559	TT	CC	1946813731
SNP_P4_53645_31282784	NC_021163.1	Ca_kabuli_chr04	31282784	GG	AA	1946813733
SNP_P4_53646_31282880	NC_021163.1	Ca_kabuli_chr04	31282880	TT	AA	1946813735
SNP_P4_53647_31283635	NC_021163.1	Ca_kabuli_chr04	31283635	TT	CC	1946813737
SNP_P4_53649_31285193	NC_021163.1	Ca_kabuli_chr04	31285193	TT	GG	1946813739
SNP_P4_53650_31287276	NC_021163.1	Ca_kabuli_chr04	31287276	TT	AA	1946813741
SNP_P4_53652_31287927	NC_021163.1	Ca_kabuli_chr04	31287927	GG	TT	1946813743
SNP_P4_53653_31287940	NC_021163.1	Ca_kabuli_chr04	31287940	GG	AA	1946813745
SNP_P4_53654_31287988	NC_021163.1	Ca_kabuli_chr04	31287988	GG	AA	1946813747
SNP_P4_53655_31287989	NC_021163.1	Ca_kabuli_chr04	31287989	AA	TT	1946813749
SNP_P4_53656_31288346	NC_021163.1	Ca_kabuli_chr04	31288346	AA	CC	1946813751
SNP_P4_53657_31288355	NC_021163.1	Ca_kabuli_chr04	31288355	AA	GG	1946813753
SNP_P4_53658_31288365	NC_021163.1	Ca_kabuli_chr04	31288365	GG	AA	1946813755
SNP_P4_53659_31288676	NC_021163.1	Ca_kabuli_chr04	31288676	CC	TT	1946813757
SNP_P4_53660_31290951	NC_021163.1	Ca_kabuli_chr04	31290951	TT	GG	1946813759
SNP_P4_53661_31291277	NC_021163.1	Ca_kabuli_chr04	31291277	TT	CC	1946813761
SNP_P4_53662_31291340	NC_021163.1	Ca_kabuli_chr04	31291340	CC	AA	1946813763
SNP_P4_53663_31291844	NC_021163.1	Ca_kabuli_chr04	31291844	TT	CC	1946813765
SNP_P4_53664_31291855	NC_021163.1	Ca_kabuli_chr04	31291855	TT	AA	1946813767
SNP_P4_53665_31295131	NC_021163.1	Ca_kabuli_chr04	31295131	TT	AA	1946813769
SNP_P4_53666_31295707	NC_021163.1	Ca_kabuli_chr04	31295707	GG	AA	1946813771
SNP_P4_53667_31295936	NC_021163.1	Ca_kabuli_chr04	31295936	AA	GG	1946813772
SNP_P4_53668_31296040	NC_021163.1	Ca_kabuli_chr04	31296040	AA	TT	1946813774
SNP_P4_53669_31296067	NC_021163.1	Ca_kabuli_chr04	31296067	TT	AA	1946813776
SNP_P4_53670_31296431	NC_021163.1	Ca_kabuli_chr04	31296431	GG	CC	1946813778
SNP_P4_53671_31297514	NC_021163.1	Ca_kabuli_chr04	31297514	AA	GG	1946813780
SNP_P4_53672_31303120	NC_021163.1	Ca_kabuli_chr04	31303120	TT	CC	1946813782
SNP_P4_53673_31303157	NC_021163.1	Ca_kabuli_chr04	31303157	GG	AA	1946813784
SNP_P4_53675_31303972	NC_021163.1	Ca_kabuli_chr04	31303972	TT	AA	1946813786

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_53677_31305780	NC_021163.1	Ca_kabuli_chr04	31305780	AA	GG	1946813790
SNP_P4_53678_31305787	NC_021163.1	Ca_kabuli_chr04	31305787	CC	TT	1946813792
SNP_P4_53679_31305810	NC_021163.1	Ca_kabuli_chr04	31305810	AA	GG	1946813794
SNP_P4_53680_31305840	NC_021163.1	Ca_kabuli_chr04	31305840	TT	CC	1946813796
SNP_P4_53681_31305946	NC_021163.1	Ca_kabuli_chr04	31305946	AA	CC	1946813798
SNP_P4_53682_31305947	NC_021163.1	Ca_kabuli_chr04	31305947	TT	CC	1946813800
SNP_P4_53683_31306190	NC_021163.1	Ca_kabuli_chr04	31306190	TT	CC	1946813802
SNP_P4_53684_31306349	NC_021163.1	Ca_kabuli_chr04	31306349	TT	CC	1946813804
SNP_P4_53685_31306390	NC_021163.1	Ca_kabuli_chr04	31306390	CC	AA	1946813806
SNP_P4_53686_31307147	NC_021163.1	Ca_kabuli_chr04	31307147	TT	CC	1946813808
SNP_P4_53687_31307280	NC_021163.1	Ca_kabuli_chr04	31307280	AA	GG	1946813810
SNP_P4_53688_31308494	NC_021163.1	Ca_kabuli_chr04	31308494	GG	TT	1946813812
SNP_P4_53689_31311604	NC_021163.1	Ca_kabuli_chr04	31311604	CC	TT	1946813814
SNP_P4_53690_31311968	NC_021163.1	Ca_kabuli_chr04	31311968	TT	CC	1946813816
SNP_P4_53691_31312392	NC_021163.1	Ca_kabuli_chr04	31312392	AA	CC	1946813818
SNP_P4_53693_31317873	NC_021163.1	Ca_kabuli_chr04	31317873	TT	CC	1946813820
SNP_P4_53694_31317965	NC_021163.1	Ca_kabuli_chr04	31317965	TT	GG	1946813822
SNP_P4_53695_31317981	NC_021163.1	Ca_kabuli_chr04	31317981	CC	TT	1946813824
SNP_P4_53696_31318328	NC_021163.1	Ca_kabuli_chr04	31318328	GG	AA	1946813826
SNP_P4_53697_31318336	NC_021163.1	Ca_kabuli_chr04	31318336	CC	TT	1946813828
SNP_P4_53698_31319076	NC_021163.1	Ca_kabuli_chr04	31319076	CC	AA	1946813830
SNP_P4_53699_31320060	NC_021163.1	Ca_kabuli_chr04	31320060	CC	TT	1946813832
SNP_P4_53700_31321459	NC_021163.1	Ca_kabuli_chr04	31321459	GG	AA	1946813834
SNP_P4_53702_31322999	NC_021163.1	Ca_kabuli_chr04	31322999	CC	TT	1946813836
SNP_P4_53703_31323223	NC_021163.1	Ca_kabuli_chr04	31323223	TT	CC	1946813838
SNP_P4_53704_31325404	NC_021163.1	Ca_kabuli_chr04	31325404	AA	CC	1946813840
SNP_P4_53705_31325998	NC_021163.1	Ca_kabuli_chr04	31325998	GG	AA	1946813842
SNP_P4_53706_31328672	NC_021163.1	Ca_kabuli_chr04	31328672	AA	CC	1946813844
SNP_P4_53707_31330995	NC_021163.1	Ca_kabuli_chr04	31330995	AA	TT	1946813846
SNP_P4_53708_31331398	NC_021163.1	Ca_kabuli_chr04	31331398	GG	AA	1946813848
SNP_P4_53709_31331608	NC_021163.1	Ca_kabuli_chr04	31331608	CC	AA	1946813850
SNP_P4_53710_31331879	NC_021163.1	Ca_kabuli_chr04	31331879	TT	AA	1946813852
SNP_P4_53711_31332093	NC_021163.1	Ca_kabuli_chr04	31332093	AA	GG	1946813854
SNP_P4_53713_31332382	NC_021163.1	Ca_kabuli_chr04	31332382	CC	AA	1946813856
SNP_P4_53714_31333049	NC_021163.1	Ca_kabuli_chr04	31333049	GG	CC	1946813858
SNP_P4_53715_31333306	NC_021163.1	Ca_kabuli_chr04	31333306	TT	CC	1946813860
SNP_P4_53716_31333408	NC_021163.1	Ca_kabuli_chr04	31333408	CC	TT	1946813862
SNP_P4_53717_31333492	NC_021163.1	Ca_kabuli_chr04	31333492	AA	TT	1946813864
SNP_P4_53718_31333786	NC_021163.1	Ca_kabuli_chr04	31333786	TT	CC	1946813866
SNP_P4_53719_31333959	NC_021163.1	Ca_kabuli_chr04	31333959	AA	TT	1946813868
SNP_P4_53721_31347169	NC_021163.1	Ca_kabuli_chr04	31347169	CC	TT	1946813870

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_53724_31365685	NC_021163.1	Ca_kabuli_chr04	31365685	GG	AA	1946813874
SNP_P4_53725_31366062	NC_021163.1	Ca_kabuli_chr04	31366062	GG	AA	1946813876
SNP_P4_53726_31367904	NC_021163.1	Ca_kabuli_chr04	31367904	TT	CC	1946813878
SNP_P4_53727_31375851	NC_021163.1	Ca_kabuli_chr04	31375851	GG	AA	1946813880
SNP_P4_53728_31384516	NC_021163.1	Ca_kabuli_chr04	31384516	AA	GG	1946813882
SNP_P4_53729_31385214	NC_021163.1	Ca_kabuli_chr04	31385214	TT	CC	1946813884
SNP_P4_53730_31388578	NC_021163.1	Ca_kabuli_chr04	31388578	CC	AA	1946813886
SNP_P4_53731_31388593	NC_021163.1	Ca_kabuli_chr04	31388593	TT	GG	1946813888
SNP_P4_53732_31388980	NC_021163.1	Ca_kabuli_chr04	31388980	GG	AA	1946813890
SNP_P4_53733_31390613	NC_021163.1	Ca_kabuli_chr04	31390613	GG	AA	1946813892
SNP_P4_53735_31400441	NC_021163.1	Ca_kabuli_chr04	31400441	AA	CC	1946813894
SNP_P4_53736_31400788	NC_021163.1	Ca_kabuli_chr04	31400788	TT	GG	1946813896
SNP_P4_53737_31400795	NC_021163.1	Ca_kabuli_chr04	31400795	TT	CC	1946813899
SNP_P4_53738_31400814	NC_021163.1	Ca_kabuli_chr04	31400814	AA	GG	1946813901
SNP_P4_53739_31400823	NC_021163.1	Ca_kabuli_chr04	31400823	CC	TT	1946813903
SNP_P4_53740_31400828	NC_021163.1	Ca_kabuli_chr04	31400828	TT	CC	1946813905
SNP_P4_53741_31400928	NC_021163.1	Ca_kabuli_chr04	31400928	AA	GG	1946813907
SNP_P4_53742_31410498	NC_021163.1	Ca_kabuli_chr04	31410498	GG	CC	1946813909
SNP_P4_53743_31410522	NC_021163.1	Ca_kabuli_chr04	31410522	AA	TT	1946813911
SNP_P4_53744_31410541	NC_021163.1	Ca_kabuli_chr04	31410541	AA	CC	1946813913
SNP_P4_53745_31410580	NC_021163.1	Ca_kabuli_chr04	31410580	AA	TT	1946813915
SNP_P4_53746_31410929	NC_021163.1	Ca_kabuli_chr04	31410929	TT	AA	1946813917
SNP_P4_53748_31415903	NC_021163.1	Ca_kabuli_chr04	31415903	TT	CC	1946813919
SNP_P4_53749_31416238	NC_021163.1	Ca_kabuli_chr04	31416238	GG	AA	1946813921
SNP_P4_53750_31416258	NC_021163.1	Ca_kabuli_chr04	31416258	CC	TT	1946813923
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SNP_P4_53752_31424640	NC_021163.1	Ca_kabuli_chr04	31424640	AA	GG	1946813927
SNP_P4_53753_31424686	NC_021163.1	Ca_kabuli_chr04	31424686	TT	GG	1946813929
SNP_P4_53754_31424774	NC_021163.1	Ca_kabuli_chr04	31424774	TT	CC	1946813932
SNP_P4_53755_31424860	NC_021163.1	Ca_kabuli_chr04	31424860	CC	GG	1946813934
SNP_P4_53756_31424884	NC_021163.1	Ca_kabuli_chr04	31424884	CC	TT	1946813936
SNP_P4_53757_31424888	NC_021163.1	Ca_kabuli_chr04	31424888	AA	CC	1946813938
SNP_P4_53758_31425097	NC_021163.1	Ca_kabuli_chr04	31425097	TT	CC	1946813940
SNP_P4_53759_31426028	NC_021163.1	Ca_kabuli_chr04	31426028	CC	AA	1946813942
SNP_P4_53761_31444983	NC_021163.1	Ca_kabuli_chr04	31444983	TT	CC	1946813944
SNP_P4_53762_31445165	NC_021163.1	Ca_kabuli_chr04	31445165	TT	CC	1946813946
SNP_P4_53763_31445198	NC_021163.1	Ca_kabuli_chr04	31445198	TT	CC	1946813948
SNP_P4_53764_31445200	NC_021163.1	Ca_kabuli_chr04	31445200	AA	GG	1946813950
SNP_P4_53765_31445232	NC_021163.1	Ca_kabuli_chr04	31445232	TT	CC	1946813952
SNP_P4_53766_31445237	NC_021163.1	Ca_kabuli_chr04	31445237	TT	AA	1946813954
SNP_P4_53768_31449620	NC_021163.1	Ca_kabuli_chr04	31449620	TT	CC	1946813956

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_53771_31453826	NC_021163.1	Ca_kabuli_chr04	31453826	AA	GG	1946813960
SNP_P4_53772_31454365	NC_021163.1	Ca_kabuli_chr04	31454365	CC	TT	1946813962
SNP_P4_53773_31463416	NC_021163.1	Ca_kabuli_chr04	31463416	AA	TT	1946813964
SNP_P4_53775_31464014	NC_021163.1	Ca_kabuli_chr04	31464014	AA	GG	1946813966
SNP_P4_53776_31467918	NC_021163.1	Ca_kabuli_chr04	31467918	TT	CC	1946813968
SNP_P4_53777_31470393	NC_021163.1	Ca_kabuli_chr04	31470393	GG	AA	1946813970
SNP_P4_53778_31471156	NC_021163.1	Ca_kabuli_chr04	31471156	GG	AA	1946813972
SNP_P4_53780_31511947	NC_021163.1	Ca_kabuli_chr04	31511947	AA	TT	1946813974
SNP_P4_53782_31518716	NC_021163.1	Ca_kabuli_chr04	31518716	AA	TT	1946813976
SNP_P4_53783_31522982	NC_021163.1	Ca_kabuli_chr04	31522982	AA	GG	1946813978
SNP_P4_53785_31525602	NC_021163.1	Ca_kabuli_chr04	31525602	TT	AA	1946813980
SNP_P4_53787_31531499	NC_021163.1	Ca_kabuli_chr04	31531499	AA	GG	1946813983
SNP_P4_53788_31531507	NC_021163.1	Ca_kabuli_chr04	31531507	GG	AA	1946813985
SNP_P4_53789_31531615	NC_021163.1	Ca_kabuli_chr04	31531615	GG	TT	1946813987
SNP_P4_53790_31531644	NC_021163.1	Ca_kabuli_chr04	31531644	GG	TT	1946813989
SNP_P4_53791_31531661	NC_021163.1	Ca_kabuli_chr04	31531661	TT	CC	1946813991
SNP_P4_53792_31533032	NC_021163.1	Ca_kabuli_chr04	31533032	TT	CC	1946813993
SNP_P4_53793_31533047	NC_021163.1	Ca_kabuli_chr04	31533047	TT	AA	1946813995
SNP_P4_53794_31533384	NC_021163.1	Ca_kabuli_chr04	31533384	AA	GG	1946813997
SNP_P4_53795_31533653	NC_021163.1	Ca_kabuli_chr04	31533653	TT	AA	1946813999
SNP_P4_53796_31534190	NC_021163.1	Ca_kabuli_chr04	31534190	CC	TT	1946814001
SNP_P4_53798_31534845	NC_021163.1	Ca_kabuli_chr04	31534845	CC	AA	1946814004
SNP_P4_53799_31534850	NC_021163.1	Ca_kabuli_chr04	31534850	TT	GG	1946814006
SNP_P4_53800_31545519	NC_021163.1	Ca_kabuli_chr04	31545519	CC	AA	1946814008
SNP_P4_53801_31546233	NC_021163.1	Ca_kabuli_chr04	31546233	TT	CC	1946814010
SNP_P4_53803_31549227	NC_021163.1	Ca_kabuli_chr04	31549227	AA	CC	1946814012
SNP_P4_53804_31549231	NC_021163.1	Ca_kabuli_chr04	31549231	TT	AA	1946814014
SNP_P4_53805_31549910	NC_021163.1	Ca_kabuli_chr04	31549910	CC	TT	1946814016
SNP_P4_53806_31549914	NC_021163.1	Ca_kabuli_chr04	31549914	TT	CC	1946814019
SNP_P4_53807_31552416	NC_021163.1	Ca_kabuli_chr04	31552416	AA	GG	1946814021
SNP_P4_53808_31552683	NC_021163.1	Ca_kabuli_chr04	31552683	TT	CC	1946814023
SNP_P4_53809_31554384	NC_021163.1	Ca_kabuli_chr04	31554384	TT	AA	1946814026
SNP_P4_53810_31554403	NC_021163.1	Ca_kabuli_chr04	31554403	AA	CC	1946814028
SNP_P4_53811_31555271	NC_021163.1	Ca_kabuli_chr04	31555271	AA	GG	1946814030
SNP_P4_53812_31556277	NC_021163.1	Ca_kabuli_chr04	31556277	AA	GG	1946814032
SNP_P4_53814_31558627	NC_021163.1	Ca_kabuli_chr04	31558627	TT	CC	1946814034
SNP_P4_53815_31558693	NC_021163.1	Ca_kabuli_chr04	31558693	TT	GG	1946814036
SNP_P4_53816_31559450	NC_021163.1	Ca_kabuli_chr04	31559450	TT	GG	1946814039
SNP_P4_53817_31559475	NC_021163.1	Ca_kabuli_chr04	31559475	TT	CC	1946814041
SNP_P4_53818_31559483	NC_021163.1	Ca_kabuli_chr04	31559483	TT	CC	1946814043
SNP_P4_53819_31559520	NC_021163.1	Ca_kabuli_chr04	31559520	GG	AA	1946814045

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_53822_31561057	NC_021163.1	Ca_kabuli_chr04	31561057	GG	AA	1946814049
SNP_P4_53823_31561325	NC_021163.1	Ca_kabuli_chr04	31561325	AA	GG	1946814051
SNP_P4_53824_31561361	NC_021163.1	Ca_kabuli_chr04	31561361	TT	CC	1946814053
SNP_P4_53825_31561426	NC_021163.1	Ca_kabuli_chr04	31561426	CC	TT	1946814055
SNP_P4_53826_31561520	NC_021163.1	Ca_kabuli_chr04	31561520	GG	TT	1946814057
SNP_P4_53827_31561809	NC_021163.1	Ca_kabuli_chr04	31561809	AA	GG	1946814059
SNP_P4_53828_31562081	NC_021163.1	Ca_kabuli_chr04	31562081	TT	AA	1946814061
SNP_P4_53829_31567853	NC_021163.1	Ca_kabuli_chr04	31567853	AA	TT	1946814063
SNP_P4_53830_31569977	NC_021163.1	Ca_kabuli_chr04	31569977	GG	AA	1946814066
SNP_P4_53831_31571350	NC_021163.1	Ca_kabuli_chr04	31571350	AA	GG	1946814068
SNP_P4_53832_31578577	NC_021163.1	Ca_kabuli_chr04	31578577	AA	GG	1946814070
SNP_P4_53833_31578579	NC_021163.1	Ca_kabuli_chr04	31578579	CC	TT	1946814072
SNP_P4_53834_31578906	NC_021163.1	Ca_kabuli_chr04	31578906	CC	TT	1946814074
SNP_P4_53835_31579229	NC_021163.1	Ca_kabuli_chr04	31579229	AA	GG	1946814076
SNP_P4_53836_31579266	NC_021163.1	Ca_kabuli_chr04	31579266	GG	TT	1946814078
SNP_P4_53837_31590645	NC_021163.1	Ca_kabuli_chr04	31590645	CC	TT	1946814081
SNP_P4_53838_31600787	NC_021163.1	Ca_kabuli_chr04	31600787	TT	CC	1946814083
SNP_P4_53839_31611826	NC_021163.1	Ca_kabuli_chr04	31611826	GG	AA	1946814085
SNP_P4_53842_31611887	NC_021163.1	Ca_kabuli_chr04	31611887	AA	GG	1946814087
SNP_P4_53844_31614792	NC_021163.1	Ca_kabuli_chr04	31614792	AA	TT	1946814089
SNP_P4_53845_31614804	NC_021163.1	Ca_kabuli_chr04	31614804	CC	AA	1946814091
SNP_P4_53846_31614809	NC_021163.1	Ca_kabuli_chr04	31614809	TT	CC	1946814093
SNP_P4_53847_31614824	NC_021163.1	Ca_kabuli_chr04	31614824	GG	AA	1946814095
SNP_P4_53848_31615069	NC_021163.1	Ca_kabuli_chr04	31615069	AA	GG	1946814097
SNP_P4_53849_31616593	NC_021163.1	Ca_kabuli_chr04	31616593	CC	TT	1946814099
SNP_P4_53850_31618086	NC_021163.1	Ca_kabuli_chr04	31618086	TT	CC	1946814102
SNP_P4_53851_31619044	NC_021163.1	Ca_kabuli_chr04	31619044	GG	AA	1946814104
SNP_P4_53852_31619071	NC_021163.1	Ca_kabuli_chr04	31619071	CC	TT	1946814106
SNP_P4_53853_31619074	NC_021163.1	Ca_kabuli_chr04	31619074	GG	AA	1946814108
SNP_P4_53854_31619288	NC_021163.1	Ca_kabuli_chr04	31619288	TT	CC	1946814110
SNP_P4_53855_31619317	NC_021163.1	Ca_kabuli_chr04	31619317	CC	TT	1946814112
SNP_P4_53856_31619322	NC_021163.1	Ca_kabuli_chr04	31619322	AA	GG	1946814114
SNP_P4_53857_31619386	NC_021163.1	Ca_kabuli_chr04	31619386	CC	TT	1946814116
SNP_P4_53859_31620383	NC_021163.1	Ca_kabuli_chr04	31620383	GG	AA	1946814118
SNP_P4_53860_31620618	NC_021163.1	Ca_kabuli_chr04	31620618	TT	CC	1946814121
SNP_P4_53861_31621209	NC_021163.1	Ca_kabuli_chr04	31621209	AA	CC	1946814123
SNP_P4_53862_31621228	NC_021163.1	Ca_kabuli_chr04	31621228	GG	CC	1946814125
SNP_P4_53863_31621481	NC_021163.1	Ca_kabuli_chr04	31621481	TT	GG	1946814127
SNP_P4_53864_31621727	NC_021163.1	Ca_kabuli_chr04	31621727	GG	AA	1946814129
SNP_P4_53865_31622045	NC_021163.1	Ca_kabuli_chr04	31622045	GG	AA	1946814131
SNP_P4_53866_31622077	NC_021163.1	Ca_kabuli_chr04	31622077	CC	TT	1946814134

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_53868_31623696	NC_021163.1	Ca_kabuli_chr04	31623696	CC	TT	1946814138
SNP_P4_53869_31624176	NC_021163.1	Ca_kabuli_chr04	31624176	GG	AA	1946814140
SNP_P4_53870_31624419	NC_021163.1	Ca_kabuli_chr04	31624419	AA	GG	1946814142
SNP_P4_53871_31626549	NC_021163.1	Ca_kabuli_chr04	31626549	GG	TT	1946814144
SNP_P4_53872_31626624	NC_021163.1	Ca_kabuli_chr04	31626624	AA	GG	1946814147
SNP_P4_53873_31626809	NC_021163.1	Ca_kabuli_chr04	31626809	CC	GG	1946814149
SNP_P4_53874_31626989	NC_021163.1	Ca_kabuli_chr04	31626989	CC	AA	1946814151
SNP_P4_53875_31628016	NC_021163.1	Ca_kabuli_chr04	31628016	CC	AA	1946814153
SNP_P4_53876_31628144	NC_021163.1	Ca_kabuli_chr04	31628144	CC	GG	1946814155
SNP_P4_53877_31628194	NC_021163.1	Ca_kabuli_chr04	31628194	AA	GG	1946814158
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SNP_P4_53879_31628987	NC_021163.1	Ca_kabuli_chr04	31628987	CC	TT	1946814162
SNP_P4_53882_31629702	NC_021163.1	Ca_kabuli_chr04	31629702	TT	CC	1946814164
SNP_P4_53883_31629726	NC_021163.1	Ca_kabuli_chr04	31629726	AA	GG	1946814166
SNP_P4_53884_31630014	NC_021163.1	Ca_kabuli_chr04	31630014	TT	GG	1946814168
SNP_P4_53885_31630016	NC_021163.1	Ca_kabuli_chr04	31630016	GG	TT	1946814170
SNP_P4_53886_31630032	NC_021163.1	Ca_kabuli_chr04	31630032	CC	TT	1946814173
SNP_P4_53887_31630959	NC_021163.1	Ca_kabuli_chr04	31630959	GG	AA	1946814175
SNP_P4_53888_31630998	NC_021163.1	Ca_kabuli_chr04	31630998	GG	AA	1946814177
SNP_P4_53889_31631050	NC_021163.1	Ca_kabuli_chr04	31631050	AA	GG	1946814179
SNP_P4_53890_31632045	NC_021163.1	Ca_kabuli_chr04	31632045	AA	TT	1946814181
SNP_P4_53891_31632682	NC_021163.1	Ca_kabuli_chr04	31632682	AA	CC	1946814183
SNP_P4_53892_31632692	NC_021163.1	Ca_kabuli_chr04	31632692	CC	GG	1946814185
SNP_P4_53895_31632958	NC_021163.1	Ca_kabuli_chr04	31632958	AA	GG	1946814187
SNP_P4_53896_31633003	NC_021163.1	Ca_kabuli_chr04	31633003	TT	AA	1946814189
SNP_P4_53898_31634058	NC_021163.1	Ca_kabuli_chr04	31634058	TT	AA	1946814191
SNP_P4_53899_31634065	NC_021163.1	Ca_kabuli_chr04	31634065	GG	AA	1946814194
SNP_P4_53900_31636173	NC_021163.1	Ca_kabuli_chr04	31636173	CC	TT	1946814196
SNP_P4_53901_31636178	NC_021163.1	Ca_kabuli_chr04	31636178	TT	GG	1946814198
SNP_P4_53902_31636193	NC_021163.1	Ca_kabuli_chr04	31636193	AA	GG	1946814200
SNP_P4_53903_31636210	NC_021163.1	Ca_kabuli_chr04	31636210	GG	AA	1946814202
SNP_P4_53904_31636231	NC_021163.1	Ca_kabuli_chr04	31636231	CC	TT	1946814204
SNP_P4_53905_31636481	NC_021163.1	Ca_kabuli_chr04	31636481	GG	AA	1946814206
SNP_P4_53906_31636483	NC_021163.1	Ca_kabuli_chr04	31636483	TT	AA	1946814208
SNP_P4_53908_31638781	NC_021163.1	Ca_kabuli_chr04	31638781	AA	GG	1946814210
SNP_P4_53909_31638803	NC_021163.1	Ca_kabuli_chr04	31638803	TT	AA	1946814212
SNP_P4_53910_31638838	NC_021163.1	Ca_kabuli_chr04	31638838	CC	TT	1946814214
SNP_P4_53911_31638848	NC_021163.1	Ca_kabuli_chr04	31638848	AA	TT	1946814216
SNP_P4_53912_31638856	NC_021163.1	Ca_kabuli_chr04	31638856	AA	GG	1946814218
SNP_P4_53913_31639442	NC_021163.1	Ca_kabuli_chr04	31639442	CC	TT	1946814220
SNP_P4_53914_31639443	NC_021163.1	Ca_kabuli_chr04	31639443	AA	GG	1946814222

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_53916_31639457	NC_021163.1	Ca_kabuli_chr04	31639457	GG	AA	1946814227
SNP_P4_53918_31639795	NC_021163.1	Ca_kabuli_chr04	31639795	TT	CC	1946814229
SNP_P4_53919_31639807	NC_021163.1	Ca_kabuli_chr04	31639807	AA	GG	1946814231
SNP_P4_53920_31639812	NC_021163.1	Ca_kabuli_chr04	31639812	CC	TT	1946814233
SNP_P4_53921_31639844	NC_021163.1	Ca_kabuli_chr04	31639844	AA	GG	1946814235
SNP_P4_53922_31639928	NC_021163.1	Ca_kabuli_chr04	31639928	CC	AA	1946814237
SNP_P4_53923_31639933	NC_021163.1	Ca_kabuli_chr04	31639933	CC	GG	1946814239
SNP_P4_53924_31639942	NC_021163.1	Ca_kabuli_chr04	31639942	TT	GG	1946814241
SNP_P4_53925_31639947	NC_021163.1	Ca_kabuli_chr04	31639947	CC	TT	1946814244
SNP_P4_53926_31639965	NC_021163.1	Ca_kabuli_chr04	31639965	AA	GG	1946814246
SNP_P4_53927_31640010	NC_021163.1	Ca_kabuli_chr04	31640010	CC	GG	1946814248
SNP_P4_53929_31642549	NC_021163.1	Ca_kabuli_chr04	31642549	GG	CC	1946814250
SNP_P4_53930_31642683	NC_021163.1	Ca_kabuli_chr04	31642683	CC	TT	1946814252
SNP_P4_53931_31644030	NC_021163.1	Ca_kabuli_chr04	31644030	TT	AA	1946814254
SNP_P4_53932_31644360	NC_021163.1	Ca_kabuli_chr04	31644360	AA	CC	1946814256
SNP_P4_53933_31644630	NC_021163.1	Ca_kabuli_chr04	31644630	AA	CC	1946814258
SNP_P4_53934_31644657	NC_021163.1	Ca_kabuli_chr04	31644657	GG	CC	1946814260
SNP_P4_53935_31644668	NC_021163.1	Ca_kabuli_chr04	31644668	GG	TT	1946814262
SNP_P4_53939_31647808	NC_021163.1	Ca_kabuli_chr04	31647808	GG	TT	1946814264
SNP_P4_53940_31647841	NC_021163.1	Ca_kabuli_chr04	31647841	TT	CC	1946814266
SNP_P4_53941_31648799	NC_021163.1	Ca_kabuli_chr04	31648799	TT	CC	1946814269
SNP_P4_53942_31649256	NC_021163.1	Ca_kabuli_chr04	31649256	TT	CC	1946814271
SNP_P4_53943_31649283	NC_021163.1	Ca_kabuli_chr04	31649283	CC	AA	1946814273
SNP_P4_53946_31652815	NC_021163.1	Ca_kabuli_chr04	31652815	AA	GG	1946814275
SNP_P4_53947_31653167	NC_021163.1	Ca_kabuli_chr04	31653167	CC	AA	1946814277
SNP_P4_53948_31653177	NC_021163.1	Ca_kabuli_chr04	31653177	GG	TT	1946814279
SNP_P4_53949_31653230	NC_021163.1	Ca_kabuli_chr04	31653230	TT	AA	1946814281
SNP_P4_53951_31653505	NC_021163.1	Ca_kabuli_chr04	31653505	CC	TT	1946814283
SNP_P4_53952_31653507	NC_021163.1	Ca_kabuli_chr04	31653507	TT	GG	1946814285
SNP_P4_53953_31653518	NC_021163.1	Ca_kabuli_chr04	31653518	TT	CC	1946814287
SNP_P4_53954_31653559	NC_021163.1	Ca_kabuli_chr04	31653559	TT	AA	1946814289
SNP_P4_53955_31653724	NC_021163.1	Ca_kabuli_chr04	31653724	TT	GG	1946814291
SNP_P4_53956_31653966	NC_021163.1	Ca_kabuli_chr04	31653966	TT	GG	1946814293
SNP_P4_53957_31654032	NC_021163.1	Ca_kabuli_chr04	31654032	CC	AA	1946814295
SNP_P4_53958_31654035	NC_021163.1	Ca_kabuli_chr04	31654035	CC	GG	1946814297
SNP_P4_53959_31654104	NC_021163.1	Ca_kabuli_chr04	31654104	AA	GG	1946814299
SNP_P4_53960_31658140	NC_021163.1	Ca_kabuli_chr04	31658140	TT	CC	1946814301
SNP_P4_53961_31659111	NC_021163.1	Ca_kabuli_chr04	31659111	GG	TT	1946814303
SNP_P4_53962_31663678	NC_021163.1	Ca_kabuli_chr04	31663678	TT	GG	1946814305
SNP_P4_53963_31663761	NC_021163.1	Ca_kabuli_chr04	31663761	AA	GG	1946814307
SNP_P4_53964_31668065	NC_021163.1	Ca_kabuli_chr04	31668065	CC	TT	1946814309

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_53966_31674747	NC_021163.1	Ca_kabuli_chr04	31674747	GG	TT	1946814313
SNP_P4_53967_31679618	NC_021163.1	Ca_kabuli_chr04	31679618	GG	AA	1946814315
SNP_P4_53968_31682998	NC_021163.1	Ca_kabuli_chr04	31682998	TT	GG	1946814317
SNP_P4_53969_31684236	NC_021163.1	Ca_kabuli_chr04	31684236	CC	AA	1946814319
SNP_P4_53970_31684340	NC_021163.1	Ca_kabuli_chr04	31684340	AA	TT	1946814321
SNP_P4_53971_31703189	NC_021163.1	Ca_kabuli_chr04	31703189	AA	GG	1946814323
SNP_P4_53972_31703400	NC_021163.1	Ca_kabuli_chr04	31703400	GG	TT	1946814325
SNP_P4_53973_31703403	NC_021163.1	Ca_kabuli_chr04	31703403	AA	TT	1946814327
SNP_P4_53974_31703543	NC_021163.1	Ca_kabuli_chr04	31703543	AA	GG	1946814329
SNP_P4_53975_31711865	NC_021163.1	Ca_kabuli_chr04	31711865	AA	GG	1946814331
SNP_P4_53976_31713214	NC_021163.1	Ca_kabuli_chr04	31713214	TT	CC	1946814333
SNP_P4_53978_31719811	NC_021163.1	Ca_kabuli_chr04	31719811	GG	TT	1946814335
SNP_P4_53979_31721937	NC_021163.1	Ca_kabuli_chr04	31721937	CC	TT	1946814337
SNP_P4_53981_31734024	NC_021163.1	Ca_kabuli_chr04	31734024	CC	AA	1946814339
SNP_P4_53982_31734288	NC_021163.1	Ca_kabuli_chr04	31734288	CC	AA	1946814341
SNP_P4_53983_31737608	NC_021163.1	Ca_kabuli_chr04	31737608	GG	AA	1946814343
SNP_P4_53984_31745366	NC_021163.1	Ca_kabuli_chr04	31745366	CC	AA	1946814345
SNP_P4_53985_31748284	NC_021163.1	Ca_kabuli_chr04	31748284	CC	AA	1946814347
SNP_P4_53986_31749114	NC_021163.1	Ca_kabuli_chr04	31749114	TT	CC	1946814349
SNP_P4_53987_31749815	NC_021163.1	Ca_kabuli_chr04	31749815	GG	TT	1946814351
SNP_P4_53988_31749823	NC_021163.1	Ca_kabuli_chr04	31749823	AA	GG	1946814353
SNP_P4_53989_31751653	NC_021163.1	Ca_kabuli_chr04	31751653	CC	TT	1946814355
SNP_P4_53990_31752359	NC_021163.1	Ca_kabuli_chr04	31752359	CC	TT	1946814358
SNP_P4_53993_31753402	NC_021163.1	Ca_kabuli_chr04	31753402	AA	GG	1946814360
SNP_P4_53995_31757282	NC_021163.1	Ca_kabuli_chr04	31757282	CC	AA	1946814362
SNP_P4_53996_31757299	NC_021163.1	Ca_kabuli_chr04	31757299	AA	TT	1946814364
SNP_P4_53997_31759332	NC_021163.1	Ca_kabuli_chr04	31759332	AA	GG	1946814366
SNP_P4_53998_31763428	NC_021163.1	Ca_kabuli_chr04	31763428	AA	TT	1946814368
SNP_P4_54000_31768410	NC_021163.1	Ca_kabuli_chr04	31768410	CC	TT	1946814370
SNP_P4_54001_31769568	NC_021163.1	Ca_kabuli_chr04	31769568	GG	AA	1946814372
SNP_P4_54002_31769855	NC_021163.1	Ca_kabuli_chr04	31769855	TT	AA	1946814374
SNP_P4_54003_31771366	NC_021163.1	Ca_kabuli_chr04	31771366	AA	TT	1946814376
SNP_P4_54004_31771786	NC_021163.1	Ca_kabuli_chr04	31771786	AA	TT	1946814378
SNP_P4_54005_31773388	NC_021163.1	Ca_kabuli_chr04	31773388	GG	AA	1946814380
SNP_P4_54006_31775130	NC_021163.1	Ca_kabuli_chr04	31775130	TT	CC	1946814382
SNP_P4_54007_31775157	NC_021163.1	Ca_kabuli_chr04	31775157	TT	GG	1946814384
SNP_P4_54008_31778047	NC_021163.1	Ca_kabuli_chr04	31778047	CC	TT	1946814386
SNP_P4_54009_31780082	NC_021163.1	Ca_kabuli_chr04	31780082	AA	TT	1946814388
SNP_P4_54010_31780432	NC_021163.1	Ca_kabuli_chr04	31780432	GG	AA	1946814390
SNP_P4_54011_31780486	NC_021163.1	Ca_kabuli_chr04	31780486	AA	CC	1946814392
SNP_P4_54012_31781811	NC_021163.1	Ca_kabuli_chr04	31781811	CC	TT	1946814394

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_54014_31781857	NC_021163.1	Ca_kabuli_chr04	31781857	TT	CC	1946814398
SNP_P4_54015_31781878	NC_021163.1	Ca_kabuli_chr04	31781878	TT	CC	1946814400
SNP_P4_54016_31790030	NC_021163.1	Ca_kabuli_chr04	31790030	TT	GG	1946814402
SNP_P4_54017_31797527	NC_021163.1	Ca_kabuli_chr04	31797527	TT	CC	1946814404
SNP_P4_54018_31800949	NC_021163.1	Ca_kabuli_chr04	31800949	CC	AA	1946814406
SNP_P4_54019_31803228	NC_021163.1	Ca_kabuli_chr04	31803228	CC	AA	1946814408
SNP_P4_54021_31807419	NC_021163.1	Ca_kabuli_chr04	31807419	CC	AA	1946814410
SNP_P4_54022_31807506	NC_021163.1	Ca_kabuli_chr04	31807506	AA	CC	1946814413
SNP_P4_54023_31808854	NC_021163.1	Ca_kabuli_chr04	31808854	GG	AA	1946814415
SNP_P4_54024_31812236	NC_021163.1	Ca_kabuli_chr04	31812236	CC	TT	1946814417
SNP_P4_54025_31812253	NC_021163.1	Ca_kabuli_chr04	31812253	GG	AA	1946814419
SNP_P4_54026_31812362	NC_021163.1	Ca_kabuli_chr04	31812362	CC	TT	1946814421
SNP_P4_54027_31813602	NC_021163.1	Ca_kabuli_chr04	31813602	AA	CC	1946814423
SNP_P4_54028_31814205	NC_021163.1	Ca_kabuli_chr04	31814205	TT	AA	1946814425
SNP_P4_54030_31822942	NC_021163.1	Ca_kabuli_chr04	31822942	TT	CC	1946814427
SNP_P4_54031_31824905	NC_021163.1	Ca_kabuli_chr04	31824905	CC	TT	1946814429
SNP_P4_54032_31825015	NC_021163.1	Ca_kabuli_chr04	31825015	CC	GG	1946814431
SNP_P4_54033_31827863	NC_021163.1	Ca_kabuli_chr04	31827863	TT	AA	1946814433
SNP_P4_54034_31831634	NC_021163.1	Ca_kabuli_chr04	31831634	CC	TT	1946814435
SNP_P4_54035_31831837	NC_021163.1	Ca_kabuli_chr04	31831837	AA	TT	1946814437
SNP_P4_54036_31832079	NC_021163.1	Ca_kabuli_chr04	31832079	TT	CC	1946814439
SNP_P4_54037_31832146	NC_021163.1	Ca_kabuli_chr04	31832146	AA	GG	1946814441
SNP_P4_54038_31832157	NC_021163.1	Ca_kabuli_chr04	31832157	GG	TT	1946814443
SNP_P4_54039_31832162	NC_021163.1	Ca_kabuli_chr04	31832162	CC	TT	1946814445
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SNP_P4_54041_31832396	NC_021163.1	Ca_kabuli_chr04	31832396	TT	CC	1946814449
SNP_P4_54042_31832431	NC_021163.1	Ca_kabuli_chr04	31832431	CC	TT	1946814451
SNP_P4_54043_31832446	NC_021163.1	Ca_kabuli_chr04	31832446	CC	GG	1946814453
SNP_P4_54044_31832456	NC_021163.1	Ca_kabuli_chr04	31832456	TT	CC	1946814455
SNP_P4_54045_31832471	NC_021163.1	Ca_kabuli_chr04	31832471	TT	CC	1946814457
SNP_P4_54046_31832525	NC_021163.1	Ca_kabuli_chr04	31832525	TT	CC	1946814459
SNP_P4_54047_31832532	NC_021163.1	Ca_kabuli_chr04	31832532	TT	CC	1946814460
SNP_P4_54048_31835173	NC_021163.1	Ca_kabuli_chr04	31835173	GG	AA	1946814462
SNP_P4_54050_31839575	NC_021163.1	Ca_kabuli_chr04	31839575	GG	AA	1946814464
SNP_P4_54051_31852159	NC_021163.1	Ca_kabuli_chr04	31852159	AA	CC	1946814466
SNP_P4_54053_31855791	NC_021163.1	Ca_kabuli_chr04	31855791	TT	CC	1946814468
SNP_P4_54054_31857097	NC_021163.1	Ca_kabuli_chr04	31857097	CC	TT	1946814470
SNP_P4_54055_31857732	NC_021163.1	Ca_kabuli_chr04	31857732	GG	AA	1946814472
SNP_P4_54056_31858693	NC_021163.1	Ca_kabuli_chr04	31858693	TT	CC	1946814474
SNP_P4_54059_31867163	NC_021163.1	Ca_kabuli_chr04	31867163	CC	GG	1946814476
SNP_P4_54060_31870722	NC_021163.1	Ca_kabuli_chr04	31870722	AA	CC	1946814478

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_54062_31871920	NC_021163.1	Ca_kabuli_chr04	31871920	TT	CC	1946814482
SNP_P4_54064_31873939	NC_021163.1	Ca_kabuli_chr04	31873939	AA	TT	1946814483
SNP_P4_54065_31875493	NC_021163.1	Ca_kabuli_chr04	31875493	GG	AA	1946814486
SNP_P4_54066_31881527	NC_021163.1	Ca_kabuli_chr04	31881527	TT	GG	1946814488
SNP_P4_54070_31887000	NC_021163.1	Ca_kabuli_chr04	31887000	CC	TT	1946814490
SNP_P4_54071_31887538	NC_021163.1	Ca_kabuli_chr04	31887538	TT	AA	1946814492
SNP_P4_54072_31887541	NC_021163.1	Ca_kabuli_chr04	31887541	GG	AA	1946814494
SNP_P4_54073_31889340	NC_021163.1	Ca_kabuli_chr04	31889340	TT	GG	1946814496
SNP_P4_54074_31891756	NC_021163.1	Ca_kabuli_chr04	31891756	TT	CC	1946814498
SNP_P4_54076_31892272	NC_021163.1	Ca_kabuli_chr04	31892272	TT	CC	1946814500
SNP_P4_54078_31895633	NC_021163.1	Ca_kabuli_chr04	31895633	AA	TT	1946814502
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SNP_P4_54080_31910002	NC_021163.1	Ca_kabuli_chr04	31910002	TT	GG	1946814506
SNP_P4_54081_31910527	NC_021163.1	Ca_kabuli_chr04	31910527	AA	GG	1946814508
SNP_P4_54082_31911863	NC_021163.1	Ca_kabuli_chr04	31911863	CC	TT	1946814510
SNP_P4_54083_31914936	NC_021163.1	Ca_kabuli_chr04	31914936	TT	CC	1946814512
SNP_P4_54084_31915715	NC_021163.1	Ca_kabuli_chr04	31915715	GG	AA	1946814514
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SNP_P4_54086_31916136	NC_021163.1	Ca_kabuli_chr04	31916136	TT	CC	1946814518
SNP_P4_54087_31916281	NC_021163.1	Ca_kabuli_chr04	31916281	CC	GG	1946814520
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SNP_P4_54089_31916541	NC_021163.1	Ca_kabuli_chr04	31916541	AA	GG	1946814524
SNP_P4_54092_31924402	NC_021163.1	Ca_kabuli_chr04	31924402	TT	CC	1946814526
SNP_P4_54093_31925411	NC_021163.1	Ca_kabuli_chr04	31925411	TT	CC	1946814528
SNP_P4_54094_31925739	NC_021163.1	Ca_kabuli_chr04	31925739	CC	TT	1946814530
SNP_P4_54095_31929055	NC_021163.1	Ca_kabuli_chr04	31929055	AA	TT	1946814532
SNP_P4_54096_31929144	NC_021163.1	Ca_kabuli_chr04	31929144	TT	CC	1946814534
SNP_P4_54097_31932165	NC_021163.1	Ca_kabuli_chr04	31932165	CC	TT	1946814536
SNP_P4_54098_31936145	NC_021163.1	Ca_kabuli_chr04	31936145	GG	AA	1946814538
SNP_P4_54099_31937163	NC_021163.1	Ca_kabuli_chr04	31937163	CC	TT	1946814540
SNP_P4_54100_31938071	NC_021163.1	Ca_kabuli_chr04	31938071	AA	CC	1946814542
SNP_P4_54101_31941431	NC_021163.1	Ca_kabuli_chr04	31941431	GG	AA	1946814544
SNP_P4_54102_31941768	NC_021163.1	Ca_kabuli_chr04	31941768	AA	GG	1946814546
SNP_P4_54103_31943970	NC_021163.1	Ca_kabuli_chr04	31943970	AA	GG	1946814548
SNP_P4_54105_31948705	NC_021163.1	Ca_kabuli_chr04	31948705	TT	GG	1946814550
SNP_P4_54106_31951878	NC_021163.1	Ca_kabuli_chr04	31951878	CC	GG	1946814552
SNP_P4_54107_31954625	NC_021163.1	Ca_kabuli_chr04	31954625	GG	AA	1946814554
SNP_P4_54108_31954628	NC_021163.1	Ca_kabuli_chr04	31954628	AA	GG	1946814556
SNP_P4_54109_31954629	NC_021163.1	Ca_kabuli_chr04	31954629	CC	TT	1946814558
SNP_P4_54110_31955943	NC_021163.1	Ca_kabuli_chr04	31955943	GG	AA	1946814560
SNP_P4_54111_31955948	NC_021163.1	Ca_kabuli_chr04	31955948	AA	GG	1946814562

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_54112_31955988	NC_021163.1	Ca_kabuli_chr04	31955988	TT	GG	1946814564
SNP_P4_54114_31956274	NC_021163.1	Ca_kabuli_chr04	31956274	GG	TT	1946814567
SNP_P4_54115_31956278	NC_021163.1	Ca_kabuli_chr04	31956278	TT	CC	1946814569
SNP_P4_54116_31956296	NC_021163.1	Ca_kabuli_chr04	31956296	TT	CC	1946814571
SNP_P4_54117_31956305	NC_021163.1	Ca_kabuli_chr04	31956305	CC	TT	1946814573
SNP_P4_54118_31957338	NC_021163.1	Ca_kabuli_chr04	31957338	AA	GG	1946814575
SNP_P4_54119_31960056	NC_021163.1	Ca_kabuli_chr04	31960056	CC	TT	1946814577
SNP_P4_54120_31960093	NC_021163.1	Ca_kabuli_chr04	31960093	GG	CC	1946814579
SNP_P4_54121_31960126	NC_021163.1	Ca_kabuli_chr04	31960126	CC	TT	1946814581
SNP_P4_54122_31960128	NC_021163.1	Ca_kabuli_chr04	31960128	TT	AA	1946814583
SNP_P4_54123_31960227	NC_021163.1	Ca_kabuli_chr04	31960227	GG	CC	1946814585
SNP_P4_54124_31960231	NC_021163.1	Ca_kabuli_chr04	31960231	TT	CC	1946814587
SNP_P4_54125_31960333	NC_021163.1	Ca_kabuli_chr04	31960333	GG	AA	1946814589
SNP_P4_54126_31960343	NC_021163.1	Ca_kabuli_chr04	31960343	AA	GG	1946814591
SNP_P4_54127_31960362	NC_021163.1	Ca_kabuli_chr04	31960362	TT	CC	1946814593
SNP_P4_54128_31960375	NC_021163.1	Ca_kabuli_chr04	31960375	TT	CC	1946814595
SNP_P4_54129_31960391	NC_021163.1	Ca_kabuli_chr04	31960391	CC	TT	1946814597
SNP_P4_54130_31960459	NC_021163.1	Ca_kabuli_chr04	31960459	TT	GG	1946814599
SNP_P4_54131_31960465	NC_021163.1	Ca_kabuli_chr04	31960465	CC	TT	1946814601
SNP_P4_54132_31960593	NC_021163.1	Ca_kabuli_chr04	31960593	AA	CC	1946814603
SNP_P4_54133_31960612	NC_021163.1	Ca_kabuli_chr04	31960612	TT	GG	1946814605
SNP_P4_54134_31962515	NC_021163.1	Ca_kabuli_chr04	31962515	CC	TT	1946814607
SNP_P4_54135_31962517	NC_021163.1	Ca_kabuli_chr04	31962517	GG	CC	1946814609
SNP_P4_54136_31962963	NC_021163.1	Ca_kabuli_chr04	31962963	CC	TT	1946814611
SNP_P4_54137_31962965	NC_021163.1	Ca_kabuli_chr04	31962965	GG	TT	1946814613
SNP_P4_54138_31963404	NC_021163.1	Ca_kabuli_chr04	31963404	CC	TT	1946814614
SNP_P4_54140_31963426	NC_021163.1	Ca_kabuli_chr04	31963426	AA	GG	1946814616
SNP_P4_54141_31963432	NC_021163.1	Ca_kabuli_chr04	31963432	CC	AA	1946814618
SNP_P4_54142_31963441	NC_021163.1	Ca_kabuli_chr04	31963441	CC	TT	1946814620
SNP_P4_54143_31963443	NC_021163.1	Ca_kabuli_chr04	31963443	CC	TT	1946814622
SNP_P4_54144_31965195	NC_021163.1	Ca_kabuli_chr04	31965195	CC	GG	1946814624
SNP_P4_54146_31967592	NC_021163.1	Ca_kabuli_chr04	31967592	GG	TT	1946814626
SNP_P4_54147_31969722	NC_021163.1	Ca_kabuli_chr04	31969722	GG	AA	1946814628
SNP_P4_54148_31969728	NC_021163.1	Ca_kabuli_chr04	31969728	AA	GG	1946814630
SNP_P4_54149_31969907	NC_021163.1	Ca_kabuli_chr04	31969907	AA	CC	1946814632
SNP_P4_54150_31970704	NC_021163.1	Ca_kabuli_chr04	31970704	TT	CC	1946814634
SNP_P4_54152_31973087	NC_021163.1	Ca_kabuli_chr04	31973087	TT	GG	1946814636
SNP_P4_54153_31973099	NC_021163.1	Ca_kabuli_chr04	31973099	CC	GG	1946814638
SNP_P4_54154_31973102	NC_021163.1	Ca_kabuli_chr04	31973102	GG	AA	1946814641
SNP_P4_54155_31973109	NC_021163.1	Ca_kabuli_chr04	31973109	TT	CC	1946814643
SNP_P4_54156_31973123	NC_021163.1	Ca_kabuli_chr04	31973123	CC	TT	1946814645
SNP_P4_54157_31973125	NC_021163.1	Ca_kabuli_chr04	31973125	GG	AA	1946814647

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_54159_31973175	NC_021163.1	Ca_kabuli_chr04	31973175	GG	AA	1946814651
SNP_P4_54160_31973178	NC_021163.1	Ca_kabuli_chr04	31973178	AA	TT	1946814654
SNP_P4_54161_31973180	NC_021163.1	Ca_kabuli_chr04	31973180	AA	GG	1946814656
SNP_P4_54162_31973181	NC_021163.1	Ca_kabuli_chr04	31973181	CC	TT	1946814658
SNP_P4_54163_31973204	NC_021163.1	Ca_kabuli_chr04	31973204	GG	AA	1946814660
SNP_P4_54164_31973209	NC_021163.1	Ca_kabuli_chr04	31973209	CC	TT	1946814662
SNP_P4_54165_31973264	NC_021163.1	Ca_kabuli_chr04	31973264	AA	CC	1946814664
SNP_P4_54166_31973278	NC_021163.1	Ca_kabuli_chr04	31973278	TT	CC	1946814666
SNP_P4_54168_31973437	NC_021163.1	Ca_kabuli_chr04	31973437	CC	TT	1946814668
SNP_P4_54170_31973478	NC_021163.1	Ca_kabuli_chr04	31973478	TT	AA	1946814670
SNP_P4_54171_31973523	NC_021163.1	Ca_kabuli_chr04	31973523	GG	AA	1946814672
SNP_P4_54172_31973534	NC_021163.1	Ca_kabuli_chr04	31973534	AA	GG	1946814674
SNP_P4_54173_31973553	NC_021163.1	Ca_kabuli_chr04	31973553	CC	TT	1946814676
SNP_P4_54174_31973554	NC_021163.1	Ca_kabuli_chr04	31973554	AA	TT	1946814678
SNP_P4_54175_31973579	NC_021163.1	Ca_kabuli_chr04	31973579	AA	GG	1946814680
SNP_P4_54176_31973581	NC_021163.1	Ca_kabuli_chr04	31973581	TT	CC	1946814682
SNP_P4_54177_31973585	NC_021163.1	Ca_kabuli_chr04	31973585	AA	GG	1946814684
SNP_P4_54178_31973785	NC_021163.1	Ca_kabuli_chr04	31973785	TT	AA	1946814686
SNP_P4_54179_31974880	NC_021163.1	Ca_kabuli_chr04	31974880	GG	CC	1946814688
SNP_P4_54181_31974944	NC_021163.1	Ca_kabuli_chr04	31974944	TT	CC	1946814690
SNP_P4_54182_31975081	NC_021163.1	Ca_kabuli_chr04	31975081	AA	GG	1946814692
SNP_P4_54183_31975092	NC_021163.1	Ca_kabuli_chr04	31975092	TT	AA	1946814694
SNP_P4_54184_31975096	NC_021163.1	Ca_kabuli_chr04	31975096	GG	AA	1946814696
SNP_P4_54185_31975314	NC_021163.1	Ca_kabuli_chr04	31975314	TT	AA	1946814699
SNP_P4_54186_31975316	NC_021163.1	Ca_kabuli_chr04	31975316	TT	GG	1946814701
SNP_P4_54188_31977296	NC_021163.1	Ca_kabuli_chr04	31977296	CC	AA	1946814703
SNP_P4_54189_31978210	NC_021163.1	Ca_kabuli_chr04	31978210	AA	TT	1946814705
SNP_P4_54190_31978505	NC_021163.1	Ca_kabuli_chr04	31978505	CC	TT	1946814707
SNP_P4_54191_31978506	NC_021163.1	Ca_kabuli_chr04	31978506	CC	TT	1946814709
SNP_P4_54192_31978823	NC_021163.1	Ca_kabuli_chr04	31978823	TT	GG	1946814711
SNP_P4_54193_31978827	NC_021163.1	Ca_kabuli_chr04	31978827	CC	AA	1946814713
SNP_P4_54194_31978845	NC_021163.1	Ca_kabuli_chr04	31978845	AA	GG	1946814715
SNP_P4_54196_31981127	NC_021163.1	Ca_kabuli_chr04	31981127	GG	AA	1946814717
SNP_P4_54197_31982631	NC_021163.1	Ca_kabuli_chr04	31982631	GG	AA	1946814719
SNP_P4_54198_31985073	NC_021163.1	Ca_kabuli_chr04	31985073	CC	TT	1946814721
SNP_P4_54199_31988330	NC_021163.1	Ca_kabuli_chr04	31988330	TT	CC	1946814723
SNP_P4_54200_31988754	NC_021163.1	Ca_kabuli_chr04	31988754	CC	GG	1946814725
SNP_P4_54201_31989033	NC_021163.1	Ca_kabuli_chr04	31989033	CC	TT	1946814727
SNP_P4_54202_31989291	NC_021163.1	Ca_kabuli_chr04	31989291	GG	AA	1946814729
SNP_P4_54203_31989292	NC_021163.1	Ca_kabuli_chr04	31989292	GG	TT	1946814731
SNP_P4_54204_31989312	NC_021163.1	Ca_kabuli_chr04	31989312	GG	AA	1946814733

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_54205_31989323	NC_021163.1	Ca_kabuli_chr04	31989323	CC	TT	1946814735
SNP_P4_54206_31989334	NC_021163.1	Ca_kabuli_chr04	31989334	AA	GG	1946814737
SNP_P4_54207_31989593	NC_021163.1	Ca_kabuli_chr04	31989593	CC	GG	1946814739
SNP_P4_54208_31989604	NC_021163.1	Ca_kabuli_chr04	31989604	TT	CC	1946814741
SNP_P4_54209_31989635	NC_021163.1	Ca_kabuli_chr04	31989635	AA	TT	1946814743
SNP_P4_54211_31989655	NC_021163.1	Ca_kabuli_chr04	31989655	TT	GG	1946814745
SNP_P4_54212_31989786	NC_021163.1	Ca_kabuli_chr04	31989786	AA	GG	1946814747
SNP_P4_54213_31989810	NC_021163.1	Ca_kabuli_chr04	31989810	AA	TT	1946814749
SNP_P4_54214_31990086	NC_021163.1	Ca_kabuli_chr04	31990086	TT	GG	1946814751
SNP_P4_54215_31991222	NC_021163.1	Ca_kabuli_chr04	31991222	AA	CC	1946814753
SNP_P4_54216_31991232	NC_021163.1	Ca_kabuli_chr04	31991232	AA	TT	1946814755
SNP_P4_54217_31991273	NC_021163.1	Ca_kabuli_chr04	31991273	TT	GG	1946814757
SNP_P4_54218_31991515	NC_021163.1	Ca_kabuli_chr04	31991515	CC	TT	1946814759
SNP_P4_54219_31991578	NC_021163.1	Ca_kabuli_chr04	31991578	AA	GG	1946814761
SNP_P4_54221_31992502	NC_021163.1	Ca_kabuli_chr04	31992502	TT	CC	1946814763
SNP_P4_54222_31992843	NC_021163.1	Ca_kabuli_chr04	31992843	CC	TT	1946814765
SNP_P4_54223_31992976	NC_021163.1	Ca_kabuli_chr04	31992976	CC	AA	1946814767
SNP_P4_54224_31993199	NC_021163.1	Ca_kabuli_chr04	31993199	AA	TT	1946814769
SNP_P4_54225_31994356	NC_021163.1	Ca_kabuli_chr04	31994356	TT	CC	1946814771
SNP_P4_54227_31994547	NC_021163.1	Ca_kabuli_chr04	31994547	TT	CC	1946814773
SNP_P4_54228_31994597	NC_021163.1	Ca_kabuli_chr04	31994597	AA	CC	1946814775
SNP_P4_54229_31997468	NC_021163.1	Ca_kabuli_chr04	31997468	GG	AA	1946814777
SNP_P4_54230_31997770	NC_021163.1	Ca_kabuli_chr04	31997770	CC	TT	1946814779
SNP_P4_54231_31997813	NC_021163.1	Ca_kabuli_chr04	31997813	TT	AA	1946814781
SNP_P4_54232_31998044	NC_021163.1	Ca_kabuli_chr04	31998044	GG	AA	1946814783
SNP_P4_54233_31998672	NC_021163.1	Ca_kabuli_chr04	31998672	GG	CC	1946814785
SNP_P4_54234_31999386	NC_021163.1	Ca_kabuli_chr04	31999386	CC	TT	1946814787
SNP_P4_54235_31999454	NC_021163.1	Ca_kabuli_chr04	31999454	AA	GG	1946814789
SNP_P4_54236_31999785	NC_021163.1	Ca_kabuli_chr04	31999785	TT	CC	1946814791
SNP_P4_54237_32000133	NC_021163.1	Ca_kabuli_chr04	32000133	GG	AA	1946814793
SNP_P4_54238_32000161	NC_021163.1	Ca_kabuli_chr04	32000161	GG	TT	1946814795
SNP_P4_54239_32000189	NC_021163.1	Ca_kabuli_chr04	32000189	AA	GG	1946814797
SNP_P4_54240_32000214	NC_021163.1	Ca_kabuli_chr04	32000214	AA	GG	1946814799
SNP_P4_54241_32000217	NC_021163.1	Ca_kabuli_chr04	32000217	AA	TT	1946814801
SNP_P4_54242_32000242	NC_021163.1	Ca_kabuli_chr04	32000242	GG	AA	1946814803
SNP_P4_54243_32000308	NC_021163.1	Ca_kabuli_chr04	32000308	AA	CC	1946814805
SNP_P4_54245_32001798	NC_021163.1	Ca_kabuli_chr04	32001798	TT	CC	1946814807
SNP_P4_54246_32002086	NC_021163.1	Ca_kabuli_chr04	32002086	TT	CC	1946814809
SNP_P4_54247_32002380	NC_021163.1	Ca_kabuli_chr04	32002380	TT	AA	1946814811
SNP_P4_54248_32002516	NC_021163.1	Ca_kabuli_chr04	32002516	CC	TT	1946814813
SNP_P4_54249_32002539	NC_021163.1	Ca_kabuli_chr04	32002539	TT	CC	1946814815
SNP_P4_54250_32002559	NC_021163.1	Ca_kabuli_chr04	32002559	CC	TT	1946814817

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_54252_32004209	NC_021163.1	Ca_kabuli_chr04	32004209	AA	GG	1946814819
SNP_P4_54253_32005186	NC_021163.1	Ca_kabuli_chr04	32005186	CC	TT	1946814821
SNP_P4_54254_32006523	NC_021163.1	Ca_kabuli_chr04	32006523	GG	CC	1946814823
SNP_P4_54256_32006669	NC_021163.1	Ca_kabuli_chr04	32006669	AA	GG	1946814825
SNP_P4_54257_32006677	NC_021163.1	Ca_kabuli_chr04	32006677	GG	AA	1946814827
SNP_P4_54258_32007427	NC_021163.1	Ca_kabuli_chr04	32007427	GG	CC	1946814829
SNP_P4_54259_32008705	NC_021163.1	Ca_kabuli_chr04	32008705	TT	CC	1946814831
SNP_P4_54260_32008964	NC_021163.1	Ca_kabuli_chr04	32008964	GG	AA	1946814833
SNP_P4_54261_32009024	NC_021163.1	Ca_kabuli_chr04	32009024	GG	AA	1946814835
SNP_P4_54262_32009460	NC_021163.1	Ca_kabuli_chr04	32009460	AA	TT	1946814837
SNP_P4_54263_32009477	NC_021163.1	Ca_kabuli_chr04	32009477	GG	AA	1946814839
SNP_P4_54264_32009491	NC_021163.1	Ca_kabuli_chr04	32009491	AA	GG	1946814841
SNP_P4_54265_32009854	NC_021163.1	Ca_kabuli_chr04	32009854	GG	AA	1946814843
SNP_P4_54266_32010083	NC_021163.1	Ca_kabuli_chr04	32010083	GG	AA	1946814845
SNP_P4_54267_32010096	NC_021163.1	Ca_kabuli_chr04	32010096	GG	AA	1946814847
SNP_P4_54268_32010102	NC_021163.1	Ca_kabuli_chr04	32010102	CC	TT	1946814849
SNP_P4_54269_32011900	NC_021163.1	Ca_kabuli_chr04	32011900	AA	GG	1946814851
SNP_P4_54270_32011948	NC_021163.1	Ca_kabuli_chr04	32011948	AA	TT	1946814853
SNP_P4_54271_32011989	NC_021163.1	Ca_kabuli_chr04	32011989	AA	CC	1946814855
SNP_P4_54272_32012035	NC_021163.1	Ca_kabuli_chr04	32012035	CC	GG	1946814857
SNP_P4_54273_32012772	NC_021163.1	Ca_kabuli_chr04	32012772	TT	AA	1946814859
SNP_P4_54274_32013053	NC_021163.1	Ca_kabuli_chr04	32013053	CC	TT	1946814861
SNP_P4_54275_32013083	NC_021163.1	Ca_kabuli_chr04	32013083	CC	TT	1946814863
SNP_P4_54276_32013089	NC_021163.1	Ca_kabuli_chr04	32013089	GG	TT	1946814865
SNP_P4_54277_32013549	NC_021163.1	Ca_kabuli_chr04	32013549	AA	TT	1946814867
SNP_P4_54278_32014381	NC_021163.1	Ca_kabuli_chr04	32014381	CC	AA	1946814869
SNP_P4_54279_32014388	NC_021163.1	Ca_kabuli_chr04	32014388	TT	CC	1946814871
SNP_P4_54280_32014577	NC_021163.1	Ca_kabuli_chr04	32014577	CC	TT	1946814873
SNP_P4_54281_32014632	NC_021163.1	Ca_kabuli_chr04	32014632	TT	CC	1946814876
SNP_P4_54282_32015091	NC_021163.1	Ca_kabuli_chr04	32015091	AA	GG	1946814878
SNP_P4_54283_32015649	NC_021163.1	Ca_kabuli_chr04	32015649	TT	CC	1946814880
SNP_P4_54284_32015843	NC_021163.1	Ca_kabuli_chr04	32015843	CC	TT	1946814882
SNP_P4_54285_32015980	NC_021163.1	Ca_kabuli_chr04	32015980	TT	CC	1946814884
SNP_P4_54286_32016005	NC_021163.1	Ca_kabuli_chr04	32016005	TT	CC	1946814886
SNP_P4_54288_32016421	NC_021163.1	Ca_kabuli_chr04	32016421	GG	AA	1946814888
SNP_P4_54289_32016556	NC_021163.1	Ca_kabuli_chr04	32016556	CC	GG	1946814890
SNP_P4_54290_32016593	NC_021163.1	Ca_kabuli_chr04	32016593	TT	CC	1946814892
SNP_P4_54291_32017314	NC_021163.1	Ca_kabuli_chr04	32017314	AA	GG	1946814894
SNP_P4_54292_32017474	NC_021163.1	Ca_kabuli_chr04	32017474	AA	GG	1946814896
SNP_P4_54293_32017617	NC_021163.1	Ca_kabuli_chr04	32017617	TT	CC	1946814898
SNP_P4_54294_32017626	NC_021163.1	Ca_kabuli_chr04	32017626	AA	CC	1946814900
SNP_P4_54295_32017660	NC_021163.1	Ca_kabuli_chr04	32017660	CC	TT	1946814902

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_54296_32018032	NC_021163.1	Ca_kabuli_chr04	32018032	GG	TT	1946814904
SNP_P4_54297_32018084	NC_021163.1	Ca_kabuli_chr04	32018084	AA	GG	1946814906
SNP_P4_54298_32018283	NC_021163.1	Ca_kabuli_chr04	32018283	AA	TT	1946814908
SNP_P4_54299_32018286	NC_021163.1	Ca_kabuli_chr04	32018286	TT	AA	1946814910
SNP_P4_54300_32018352	NC_021163.1	Ca_kabuli_chr04	32018352	GG	AA	1946814912
SNP_P4_54301_32019150	NC_021163.1	Ca_kabuli_chr04	32019150	AA	TT	1946814915
SNP_P4_54302_32019198	NC_021163.1	Ca_kabuli_chr04	32019198	GG	AA	1946814917
SNP_P4_54303_32019507	NC_021163.1	Ca_kabuli_chr04	32019507	CC	TT	1946814919
SNP_P4_54304_32019508	NC_021163.1	Ca_kabuli_chr04	32019508	TT	GG	1946814921
SNP_P4_54305_32019520	NC_021163.1	Ca_kabuli_chr04	32019520	AA	GG	1946814923
SNP_P4_54306_32019574	NC_021163.1	Ca_kabuli_chr04	32019574	AA	GG	1946814925
SNP_P4_54307_32019579	NC_021163.1	Ca_kabuli_chr04	32019579	AA	GG	1946814927
SNP_P4_54308_32019581	NC_021163.1	Ca_kabuli_chr04	32019581	TT	CC	1946814929
SNP_P4_54309_32019593	NC_021163.1	Ca_kabuli_chr04	32019593	CC	TT	1946814931
SNP_P4_54310_32021062	NC_021163.1	Ca_kabuli_chr04	32021062	TT	CC	1946814933
SNP_P4_54312_32021081	NC_021163.1	Ca_kabuli_chr04	32021081	CC	AA	1946814935
SNP_P4_54313_32021968	NC_021163.1	Ca_kabuli_chr04	32021968	CC	TT	1946814937
SNP_P4_54314_32022249	NC_021163.1	Ca_kabuli_chr04	32022249	GG	AA	1946814939
SNP_P4_54315_32022305	NC_021163.1	Ca_kabuli_chr04	32022305	GG	CC	1946814941
SNP_P4_54316_32022563	NC_021163.1	Ca_kabuli_chr04	32022563	TT	CC	1946814943
SNP_P4_54317_32022571	NC_021163.1	Ca_kabuli_chr04	32022571	TT	GG	1946814945
SNP_P4_54318_32022579	NC_021163.1	Ca_kabuli_chr04	32022579	TT	CC	1946814947
SNP_P4_54319_32022630	NC_021163.1	Ca_kabuli_chr04	32022630	TT	CC	1946814949
SNP_P4_54320_32031837	NC_021163.1	Ca_kabuli_chr04	32031837	AA	GG	1946814951
SNP_P4_54321_32031912	NC_021163.1	Ca_kabuli_chr04	32031912	CC	TT	1946814953
SNP_P4_54322_32032014	NC_021163.1	Ca_kabuli_chr04	32032014	TT	CC	1946814955
SNP_P4_54323_32032074	NC_021163.1	Ca_kabuli_chr04	32032074	GG	AA	1946814957
SNP_P4_54324_32035302	NC_021163.1	Ca_kabuli_chr04	32035302	CC	AA	1946814959
SNP_P4_54325_32036273	NC_021163.1	Ca_kabuli_chr04	32036273	TT	CC	1946814961
SNP_P4_54326_32036317	NC_021163.1	Ca_kabuli_chr04	32036317	CC	TT	1946814964
SNP_P4_54327_32036330	NC_021163.1	Ca_kabuli_chr04	32036330	AA	GG	1946814966
SNP_P4_54328_32038032	NC_021163.1	Ca_kabuli_chr04	32038032	GG	CC	1946814968
SNP_P4_54330_32038241	NC_021163.1	Ca_kabuli_chr04	32038241	AA	GG	1946814970
SNP_P4_54331_32038295	NC_021163.1	Ca_kabuli_chr04	32038295	GG	CC	1946814972
SNP_P4_54332_32038307	NC_021163.1	Ca_kabuli_chr04	32038307	AA	GG	1946814974
SNP_P4_54333_32038618	NC_021163.1	Ca_kabuli_chr04	32038618	CC	TT	1946814976
SNP_P4_54334_32038974	NC_021163.1	Ca_kabuli_chr04	32038974	TT	CC	1946814978
SNP_P4_54335_32039391	NC_021163.1	Ca_kabuli_chr04	32039391	AA	GG	1946814980
SNP_P4_54336_32041547	NC_021163.1	Ca_kabuli_chr04	32041547	AA	GG	1946814982
SNP_P4_54338_32042317	NC_021163.1	Ca_kabuli_chr04	32042317	TT	CC	1946814984
SNP_P4_54340_32043237	NC_021163.1	Ca_kabuli_chr04	32043237	GG	AA	1946814986
SNP_P4_54341_32043693	NC_021163.1	Ca_kabuli_chr04	32043693	TT	CC	1946814988

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_54345_32044319	NC_021163.1	Ca_kabuli_chr04	32044319	GG	TT	1946814992
SNP_P4_54346_32044349	NC_021163.1	Ca_kabuli_chr04	32044349	CC	TT	1946814994
SNP_P4_54347_32044359	NC_021163.1	Ca_kabuli_chr04	32044359	GG	AA	1946814996
SNP_P4_54348_32045040	NC_021163.1	Ca_kabuli_chr04	32045040	AA	GG	1946814998
SNP_P4_54349_32045045	NC_021163.1	Ca_kabuli_chr04	32045045	TT	CC	1946815000
SNP_P4_54352_32047453	NC_021163.1	Ca_kabuli_chr04	32047453	AA	GG	1946815002
SNP_P4_54353_32048170	NC_021163.1	Ca_kabuli_chr04	32048170	TT	CC	1946815004
SNP_P4_54354_32048185	NC_021163.1	Ca_kabuli_chr04	32048185	TT	CC	1946815006
SNP_P4_54355_32048202	NC_021163.1	Ca_kabuli_chr04	32048202	TT	CC	1946815008
SNP_P4_54356_32048322	NC_021163.1	Ca_kabuli_chr04	32048322	AA	TT	1946815011
SNP_P4_54357_32048506	NC_021163.1	Ca_kabuli_chr04	32048506	GG	CC	1946815013
SNP_P4_54359_32048572	NC_021163.1	Ca_kabuli_chr04	32048572	TT	CC	1946815015
SNP_P4_54360_32048656	NC_021163.1	Ca_kabuli_chr04	32048656	TT	CC	1946815017
SNP_P4_54361_32048679	NC_021163.1	Ca_kabuli_chr04	32048679	CC	TT	1946815019
SNP_P4_54362_32048800	NC_021163.1	Ca_kabuli_chr04	32048800	AA	GG	1946815022
SNP_P4_54363_32048804	NC_021163.1	Ca_kabuli_chr04	32048804	AA	TT	1946815024
SNP_P4_54368_32053423	NC_021163.1	Ca_kabuli_chr04	32053423	CC	AA	1946815026
SNP_P4_54369_32053463	NC_021163.1	Ca_kabuli_chr04	32053463	TT	AA	1946815028
SNP_P4_54370_32053635	NC_021163.1	Ca_kabuli_chr04	32053635	TT	CC	1946815030
SNP_P4_54373_32055142	NC_021163.1	Ca_kabuli_chr04	32055142	AA	GG	1946815032
SNP_P4_54374_32055499	NC_021163.1	Ca_kabuli_chr04	32055499	TT	AA	1946815034
SNP_P4_54376_32057269	NC_021163.1	Ca_kabuli_chr04	32057269	TT	CC	1946815037
SNP_P4_54377_32057316	NC_021163.1	Ca_kabuli_chr04	32057316	TT	CC	1946815039
SNP_P4_54379_32057344	NC_021163.1	Ca_kabuli_chr04	32057344	AA	TT	1946815041
SNP_P4_54381_32057483	NC_021163.1	Ca_kabuli_chr04	32057483	CC	TT	1946815043
SNP_P4_54382_32057507	NC_021163.1	Ca_kabuli_chr04	32057507	TT	CC	1946815045
SNP_P4_54383_32057635	NC_021163.1	Ca_kabuli_chr04	32057635	AA	CC	1946815048
SNP_P4_54384_32057636	NC_021163.1	Ca_kabuli_chr04	32057636	CC	TT	1946815050
SNP_P4_54385_32057667	NC_021163.1	Ca_kabuli_chr04	32057667	TT	GG	1946815052
SNP_P4_54386_32057672	NC_021163.1	Ca_kabuli_chr04	32057672	TT	CC	1946815054
SNP_P4_54387_32057675	NC_021163.1	Ca_kabuli_chr04	32057675	AA	GG	1946815056
SNP_P4_54388_32058006	NC_021163.1	Ca_kabuli_chr04	32058006	GG	CC	1946815059
SNP_P4_54389_32058021	NC_021163.1	Ca_kabuli_chr04	32058021	TT	CC	1946815061
SNP_P4_54391_32058258	NC_021163.1	Ca_kabuli_chr04	32058258	CC	AA	1946815063
SNP_P4_54392_32058281	NC_021163.1	Ca_kabuli_chr04	32058281	CC	TT	1946815065
SNP_P4_54393_32060334	NC_021163.1	Ca_kabuli_chr04	32060334	TT	AA	1946815067
SNP_P4_54394_32060411	NC_021163.1	Ca_kabuli_chr04	32060411	CC	TT	1946815069
SNP_P4_54395_32060420	NC_021163.1	Ca_kabuli_chr04	32060420	GG	CC	1946815071
SNP_P4_54396_32062223	NC_021163.1	Ca_kabuli_chr04	32062223	AA	GG	1946815073
SNP_P4_54397_32062418	NC_021163.1	Ca_kabuli_chr04	32062418	TT	CC	1946815075
SNP_P4_54398_32062468	NC_021163.1	Ca_kabuli_chr04	32062468	GG	CC	1946815077

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_54400_32067356	NC_021163.1	Ca_kabuli_chr04	32067356	CC	TT	1946815081
SNP_P4_54401_32067364	NC_021163.1	Ca_kabuli_chr04	32067364	CC	TT	1946815083
SNP_P4_54402_32067401	NC_021163.1	Ca_kabuli_chr04	32067401	GG	AA	1946815085
SNP_P4_54403_32067405	NC_021163.1	Ca_kabuli_chr04	32067405	GG	AA	1946815087
SNP_P4_54404_32068250	NC_021163.1	Ca_kabuli_chr04	32068250	CC	TT	1946815089
SNP_P4_54405_32069381	NC_021163.1	Ca_kabuli_chr04	32069381	CC	TT	1946815091
SNP_P4_54407_32069414	NC_021163.1	Ca_kabuli_chr04	32069414	GG	CC	1946815093
SNP_P4_54408_32069431	NC_021163.1	Ca_kabuli_chr04	32069431	TT	CC	1946815096
SNP_P4_54409_32069789	NC_021163.1	Ca_kabuli_chr04	32069789	TT	CC	1946815098
SNP_P4_54410_32069814	NC_021163.1	Ca_kabuli_chr04	32069814	GG	AA	1946815100
SNP_P4_54411_32069817	NC_021163.1	Ca_kabuli_chr04	32069817	AA	TT	1946815102
SNP_P4_54412_32069820	NC_021163.1	Ca_kabuli_chr04	32069820	TT	GG	1946815104
SNP_P4_54413_32069823	NC_021163.1	Ca_kabuli_chr04	32069823	CC	TT	1946815106
SNP_P4_54414_32083185	NC_021163.1	Ca_kabuli_chr04	32083185	AA	GG	1946815108
SNP_P4_54415_32083299	NC_021163.1	Ca_kabuli_chr04	32083299	AA	GG	1946815110
SNP_P4_54416_32083302	NC_021163.1	Ca_kabuli_chr04	32083302	AA	TT	1946815113
SNP_P4_54417_32083348	NC_021163.1	Ca_kabuli_chr04	32083348	GG	TT	1946815115
SNP_P4_54418_32083354	NC_021163.1	Ca_kabuli_chr04	32083354	GG	AA	1946815117
SNP_P4_54419_32083372	NC_021163.1	Ca_kabuli_chr04	32083372	GG	AA	1946815119
SNP_P4_54420_32083421	NC_021163.1	Ca_kabuli_chr04	32083421	AA	GG	1946815121
SNP_P4_54421_32083491	NC_021163.1	Ca_kabuli_chr04	32083491	AA	GG	1946815123
SNP_P4_54422_32083500	NC_021163.1	Ca_kabuli_chr04	32083500	GG	AA	1946815126
SNP_P4_54423_32083760	NC_021163.1	Ca_kabuli_chr04	32083760	AA	GG	1946815128
SNP_P4_54424_32083774	NC_021163.1	Ca_kabuli_chr04	32083774	TT	CC	1946815130
SNP_P4_54425_32085937	NC_021163.1	Ca_kabuli_chr04	32085937	CC	TT	1946815132
SNP_P4_54426_32085938	NC_021163.1	Ca_kabuli_chr04	32085938	AA	GG	1946815134
SNP_P4_54427_32100606	NC_021163.1	Ca_kabuli_chr04	32100606	GG	AA	1946815136
SNP_P4_54428_32100608	NC_021163.1	Ca_kabuli_chr04	32100608	CC	AA	1946815138
SNP_P4_54429_32100609	NC_021163.1	Ca_kabuli_chr04	32100609	AA	GG	1946815140
SNP_P4_54431_32100648	NC_021163.1	Ca_kabuli_chr04	32100648	AA	GG	1946815142
SNP_P4_54432_32101235	NC_021163.1	Ca_kabuli_chr04	32101235	TT	AA	1946815144
SNP_P4_54433_32101569	NC_021163.1	Ca_kabuli_chr04	32101569	AA	GG	1946815146
SNP_P4_54434_32101576	NC_021163.1	Ca_kabuli_chr04	32101576	AA	TT	1946815148
SNP_P4_54436_32103296	NC_021163.1	Ca_kabuli_chr04	32103296	AA	CC	1946815150
SNP_P4_54437_32103572	NC_021163.1	Ca_kabuli_chr04	32103572	GG	AA	1946815152
SNP_P4_54438_32103944	NC_021163.1	Ca_kabuli_chr04	32103944	AA	GG	1946815154
SNP_P4_54439_32106831	NC_021163.1	Ca_kabuli_chr04	32106831	GG	AA	1946815156
SNP_P4_54440_32106878	NC_021163.1	Ca_kabuli_chr04	32106878	AA	CC	1946815158
SNP_P4_54441_32107168	NC_021163.1	Ca_kabuli_chr04	32107168	CC	TT	1946815160
SNP_P4_54442_32107211	NC_021163.1	Ca_kabuli_chr04	32107211	GG	AA	1946815163
SNP_P4_54443_32107217	NC_021163.1	Ca_kabuli_chr04	32107217	TT	CC	1946815165

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_54445_32111175	NC_021163.1	Ca_kabuli_chr04	32111175	CC	TT	1946815169
SNP_P4_54446_32112369	NC_021163.1	Ca_kabuli_chr04	32112369	CC	AA	1946815171
SNP_P4_54447_32112407	NC_021163.1	Ca_kabuli_chr04	32112407	AA	TT	1946815173
SNP_P4_54448_32112416	NC_021163.1	Ca_kabuli_chr04	32112416	TT	CC	1946815175
SNP_P4_54449_32115728	NC_021163.1	Ca_kabuli_chr04	32115728	AA	GG	1946815177
SNP_P4_54450_32115737	NC_021163.1	Ca_kabuli_chr04	32115737	GG	CC	1946815179
SNP_P4_54451_32116051	NC_021163.1	Ca_kabuli_chr04	32116051	CC	TT	1946815181
SNP_P4_54452_32116248	NC_021163.1	Ca_kabuli_chr04	32116248	AA	TT	1946815183
SNP_P4_54453_32116468	NC_021163.1	Ca_kabuli_chr04	32116468	CC	TT	1946815185
SNP_P4_54454_32117153	NC_021163.1	Ca_kabuli_chr04	32117153	TT	CC	1946815188
SNP_P4_54455_32117155	NC_021163.1	Ca_kabuli_chr04	32117155	GG	AA	1946815190
SNP_P4_54456_32117180	NC_021163.1	Ca_kabuli_chr04	32117180	CC	TT	1946815192
SNP_P4_54457_32117384	NC_021163.1	Ca_kabuli_chr04	32117384	CC	GG	1946815194
SNP_P4_54458_32118122	NC_021163.1	Ca_kabuli_chr04	32118122	GG	TT	1946815196
SNP_P4_54459_32118181	NC_021163.1	Ca_kabuli_chr04	32118181	AA	GG	1946815198
SNP_P4_54460_32118344	NC_021163.1	Ca_kabuli_chr04	32118344	TT	CC	1946815200
SNP_P4_54461_32118559	NC_021163.1	Ca_kabuli_chr04	32118559	CC	AA	1946815202
SNP_P4_54462_32118605	NC_021163.1	Ca_kabuli_chr04	32118605	TT	GG	1946815204
SNP_P4_54464_32118922	NC_021163.1	Ca_kabuli_chr04	32118922	GG	AA	1946815206
SNP_P4_54465_32121016	NC_021163.1	Ca_kabuli_chr04	32121016	AA	GG	1946815208
SNP_P4_54467_32121529	NC_021163.1	Ca_kabuli_chr04	32121529	AA	GG	1946815211
SNP_P4_54470_32121900	NC_021163.1	Ca_kabuli_chr04	32121900	AA	GG	1946815213
SNP_P4_54471_32122880	NC_021163.1	Ca_kabuli_chr04	32122880	TT	CC	1946815215
SNP_P4_54472_32122986	NC_021163.1	Ca_kabuli_chr04	32122986	TT	CC	1946815217
SNP_P4_54473_32123141	NC_021163.1	Ca_kabuli_chr04	32123141	TT	CC	1946815219
SNP_P4_54474_32123143	NC_021163.1	Ca_kabuli_chr04	32123143	GG	TT	1946815221
SNP_P4_54475_32123169	NC_021163.1	Ca_kabuli_chr04	32123169	GG	AA	1946815223
SNP_P4_54476_32123184	NC_021163.1	Ca_kabuli_chr04	32123184	GG	CC	1946815226
SNP_P4_54477_32123362	NC_021163.1	Ca_kabuli_chr04	32123362	GG	TT	1946815228
SNP_P4_54478_32124971	NC_021163.1	Ca_kabuli_chr04	32124971	CC	AA	1946815230
SNP_P4_54480_32128774	NC_021163.1	Ca_kabuli_chr04	32128774	TT	GG	1946815232
SNP_P4_54481_32136737	NC_021163.1	Ca_kabuli_chr04	32136737	AA	TT	1946815234
SNP_P4_54483_32138080	NC_021163.1	Ca_kabuli_chr04	32138080	CC	AA	1946815236
SNP_P4_54484_32138124	NC_021163.1	Ca_kabuli_chr04	32138124	AA	TT	1946815239
SNP_P4_54486_32139052	NC_021163.1	Ca_kabuli_chr04	32139052	GG	AA	1946815241
SNP_P4_54487_32139239	NC_021163.1	Ca_kabuli_chr04	32139239	TT	CC	1946815243
SNP_P4_54488_32139329	NC_021163.1	Ca_kabuli_chr04	32139329	TT	CC	1946815245
SNP_P4_54489_32140352	NC_021163.1	Ca_kabuli_chr04	32140352	AA	TT	1946815247
SNP_P4_54490_32140774	NC_021163.1	Ca_kabuli_chr04	32140774	TT	GG	1946815249
SNP_P4_54491_32140776	NC_021163.1	Ca_kabuli_chr04	32140776	GG	AA	1946815251
SNP_P4_54492_32140794	NC_021163.1	Ca_kabuli_chr04	32140794	GG	TT	1946815253

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_54495_32141403	NC_021163.1	Ca_kabuli_chr04	32141403	AA	GG	1946815257
SNP_P4_54496_32141405	NC_021163.1	Ca_kabuli_chr04	32141405	AA	GG	1946815260
SNP_P4_54497_32141411	NC_021163.1	Ca_kabuli_chr04	32141411	TT	GG	1946815262
SNP_P4_54498_32141447	NC_021163.1	Ca_kabuli_chr04	32141447	CC	TT	1946815264
SNP_P4_54499_32141475	NC_021163.1	Ca_kabuli_chr04	32141475	TT	GG	1946815266
SNP_P4_54500_32141550	NC_021163.1	Ca_kabuli_chr04	32141550	CC	TT	1946815268
SNP_P4_54501_32141560	NC_021163.1	Ca_kabuli_chr04	32141560	CC	TT	1946815270
SNP_P4_54502_32141758	NC_021163.1	Ca_kabuli_chr04	32141758	GG	AA	1946815272
SNP_P4_54503_32141812	NC_021163.1	Ca_kabuli_chr04	32141812	AA	GG	1946815274
SNP_P4_54504_32141818	NC_021163.1	Ca_kabuli_chr04	32141818	TT	GG	1946815276
SNP_P4_54505_32142775	NC_021163.1	Ca_kabuli_chr04	32142775	TT	AA	1946815279
SNP_P4_54506_32142784	NC_021163.1	Ca_kabuli_chr04	32142784	AA	GG	1946815281
SNP_P4_54507_32142787	NC_021163.1	Ca_kabuli_chr04	32142787	GG	TT	1946815283
SNP_P4_54509_32144754	NC_021163.1	Ca_kabuli_chr04	32144754	CC	TT	1946815285
SNP_P4_54510_32144802	NC_021163.1	Ca_kabuli_chr04	32144802	CC	TT	1946815287
SNP_P4_54511_32144807	NC_021163.1	Ca_kabuli_chr04	32144807	CC	TT	1946815289
SNP_P4_54512_32144813	NC_021163.1	Ca_kabuli_chr04	32144813	GG	TT	1946815291
SNP_P4_54513_32145028	NC_021163.1	Ca_kabuli_chr04	32145028	CC	AA	1946815293
SNP_P4_54514_32146201	NC_021163.1	Ca_kabuli_chr04	32146201	CC	TT	1946815295
SNP_P4_54515_32146236	NC_021163.1	Ca_kabuli_chr04	32146236	TT	CC	1946815297
SNP_P4_54516_32146238	NC_021163.1	Ca_kabuli_chr04	32146238	CC	TT	1946815299
SNP_P4_54517_32146265	NC_021163.1	Ca_kabuli_chr04	32146265	GG	AA	1946815301
SNP_P4_54518_32146975	NC_021163.1	Ca_kabuli_chr04	32146975	CC	TT	1946815303
SNP_P4_54519_32147641	NC_021163.1	Ca_kabuli_chr04	32147641	TT	CC	1946815305
SNP_P4_54521_32148365	NC_021163.1	Ca_kabuli_chr04	32148365	GG	AA	1946815307
SNP_P4_54522_32148848	NC_021163.1	Ca_kabuli_chr04	32148848	AA	TT	1946815309
SNP_P4_54524_32149301	NC_021163.1	Ca_kabuli_chr04	32149301	TT	AA	1946815311
SNP_P4_54526_32149531	NC_021163.1	Ca_kabuli_chr04	32149531	GG	AA	1946815313
SNP_P4_54527_32149532	NC_021163.1	Ca_kabuli_chr04	32149532	TT	CC	1946815315
SNP_P4_54528_32149581	NC_021163.1	Ca_kabuli_chr04	32149581	GG	AA	1946815317
SNP_P4_54530_32149995	NC_021163.1	Ca_kabuli_chr04	32149995	GG	AA	1946815319
SNP_P4_54531_32150022	NC_021163.1	Ca_kabuli_chr04	32150022	AA	TT	1946815321
SNP_P4_54532_32150041	NC_021163.1	Ca_kabuli_chr04	32150041	CC	AA	1946815323
SNP_P4_54533_32150437	NC_021163.1	Ca_kabuli_chr04	32150437	TT	AA	1946815325
SNP_P4_54534_32150852	NC_021163.1	Ca_kabuli_chr04	32150852	AA	TT	1946815327
SNP_P4_54535_32150992	NC_021163.1	Ca_kabuli_chr04	32150992	AA	GG	1946815329
SNP_P4_54536_32151560	NC_021163.1	Ca_kabuli_chr04	32151560	GG	AA	1946815331
SNP_P4_54537_32151900	NC_021163.1	Ca_kabuli_chr04	32151900	GG	AA	1946815333
SNP_P4_54538_32152181	NC_021163.1	Ca_kabuli_chr04	32152181	TT	CC	1946815336
SNP_P4_54539_32152206	NC_021163.1	Ca_kabuli_chr04	32152206	GG	AA	1946815338
SNP_P4_54540_32152250	NC_021163.1	Ca_kabuli_chr04	32152250	TT	AA	1946815340

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_54542_32155670	NC_021163.1	Ca_kabuli_chr04	32155670	TT	AA	1946815344
SNP_P4_54543_32155672	NC_021163.1	Ca_kabuli_chr04	32155672	TT	CC	1946815346
SNP_P4_54544_32155700	NC_021163.1	Ca_kabuli_chr04	32155700	TT	CC	1946815348
SNP_P4_54545_32155716	NC_021163.1	Ca_kabuli_chr04	32155716	TT	AA	1946815350
SNP_P4_54546_32155746	NC_021163.1	Ca_kabuli_chr04	32155746	TT	CC	1946815352
SNP_P4_54547_32155782	NC_021163.1	Ca_kabuli_chr04	32155782	CC	TT	1946815354
SNP_P4_54548_32155865	NC_021163.1	Ca_kabuli_chr04	32155865	CC	TT	1946815356
SNP_P4_54549_32155907	NC_021163.1	Ca_kabuli_chr04	32155907	AA	CC	1946815358
SNP_P4_54550_32156008	NC_021163.1	Ca_kabuli_chr04	32156008	TT	AA	1946815360
SNP_P4_54551_32156181	NC_021163.1	Ca_kabuli_chr04	32156181	AA	CC	1946815362
SNP_P4_54552_32156188	NC_021163.1	Ca_kabuli_chr04	32156188	TT	CC	1946815364
SNP_P4_54553_32156214	NC_021163.1	Ca_kabuli_chr04	32156214	CC	GG	1946815366
SNP_P4_54554_32156485	NC_021163.1	Ca_kabuli_chr04	32156485	AA	GG	1946815368
SNP_P4_54555_32156489	NC_021163.1	Ca_kabuli_chr04	32156489	GG	AA	1946815370
SNP_P4_54559_32161733	NC_021163.1	Ca_kabuli_chr04	32161733	CC	TT	1946815372
SNP_P4_54560_32163181	NC_021163.1	Ca_kabuli_chr04	32163181	CC	TT	1946815374
SNP_P4_54561_32163322	NC_021163.1	Ca_kabuli_chr04	32163322	TT	CC	1946815376
SNP_P4_54562_32163324	NC_021163.1	Ca_kabuli_chr04	32163324	CC	TT	1946815377
SNP_P4_54563_32163346	NC_021163.1	Ca_kabuli_chr04	32163346	TT	CC	1946815379
SNP_P4_54564_32163358	NC_021163.1	Ca_kabuli_chr04	32163358	AA	TT	1946815381
SNP_P4_54565_32163465	NC_021163.1	Ca_kabuli_chr04	32163465	CC	TT	1946815383
SNP_P4_54566_32163503	NC_021163.1	Ca_kabuli_chr04	32163503	CC	TT	1946815385
SNP_P4_54567_32163538	NC_021163.1	Ca_kabuli_chr04	32163538	CC	TT	1946815387
SNP_P4_54568_32167596	NC_021163.1	Ca_kabuli_chr04	32167596	TT	GG	1946815389
SNP_P4_54569_32167630	NC_021163.1	Ca_kabuli_chr04	32167630	CC	TT	1946815391
SNP_P4_54570_32167651	NC_021163.1	Ca_kabuli_chr04	32167651	CC	TT	1946815393
SNP_P4_54571_32167684	NC_021163.1	Ca_kabuli_chr04	32167684	AA	GG	1946815395
SNP_P4_54572_32167736	NC_021163.1	Ca_kabuli_chr04	32167736	GG	CC	1946815397
SNP_P4_54574_32167907	NC_021163.1	Ca_kabuli_chr04	32167907	TT	CC	1946815399
SNP_P4_54575_32167949	NC_021163.1	Ca_kabuli_chr04	32167949	AA	GG	1946815401
SNP_P4_54576_32167956	NC_021163.1	Ca_kabuli_chr04	32167956	AA	CC	1946815403
SNP_P4_54577_32167991	NC_021163.1	Ca_kabuli_chr04	32167991	CC	TT	1946815405
SNP_P4_54578_32168230	NC_021163.1	Ca_kabuli_chr04	32168230	CC	AA	1946815407
SNP_P4_54579_32168236	NC_021163.1	Ca_kabuli_chr04	32168236	GG	AA	1946815409
SNP_P4_54580_32168254	NC_021163.1	Ca_kabuli_chr04	32168254	TT	GG	1946815411
SNP_P4_54581_32168289	NC_021163.1	Ca_kabuli_chr04	32168289	GG	AA	1946815413
SNP_P4_54582_32168307	NC_021163.1	Ca_kabuli_chr04	32168307	GG	AA	1946815415
SNP_P4_54583_32168973	NC_021163.1	Ca_kabuli_chr04	32168973	CC	GG	1946815417
SNP_P4_54584_32168989	NC_021163.1	Ca_kabuli_chr04	32168989	CC	TT	1946815419
SNP_P4_54585_32169015	NC_021163.1	Ca_kabuli_chr04	32169015	GG	AA	1946815421
SNP_P4_54586_32169016	NC_021163.1	Ca_kabuli_chr04	32169016	TT	GG	1946815423

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_54588_32173571	NC_021163.1	Ca_kabuli_chr04	32173571	TT	CC	1946815427
SNP_P4_54589_32173602	NC_021163.1	Ca_kabuli_chr04	32173602	TT	AA	1946815429
SNP_P4_54590_32173942	NC_021163.1	Ca_kabuli_chr04	32173942	AA	TT	1946815431
SNP_P4_54591_32174166	NC_021163.1	Ca_kabuli_chr04	32174166	CC	GG	1946815433
SNP_P4_54593_32174625	NC_021163.1	Ca_kabuli_chr04	32174625	GG	TT	1946815435
SNP_P4_54594_32174754	NC_021163.1	Ca_kabuli_chr04	32174754	TT	AA	1946815437
SNP_P4_54595_32174871	NC_021163.1	Ca_kabuli_chr04	32174871	TT	CC	1946815439
SNP_P4_54596_32179061	NC_021163.1	Ca_kabuli_chr04	32179061	CC	TT	1946815441
SNP_P4_54597_32179432	NC_021163.1	Ca_kabuli_chr04	32179432	CC	TT	1946815443
SNP_P4_54598_32179441	NC_021163.1	Ca_kabuli_chr04	32179441	CC	AA	1946815445
SNP_P4_54599_32179444	NC_021163.1	Ca_kabuli_chr04	32179444	CC	TT	1946815447
SNP_P4_54600_32179598	NC_021163.1	Ca_kabuli_chr04	32179598	TT	CC	1946815449
SNP_P4_54601_32179599	NC_021163.1	Ca_kabuli_chr04	32179599	AA	CC	1946815451
SNP_P4_54603_32179674	NC_021163.1	Ca_kabuli_chr04	32179674	GG	TT	1946815453
SNP_P4_54605_32181718	NC_021163.1	Ca_kabuli_chr04	32181718	AA	GG	1946815455
SNP_P4_54606_32181724	NC_021163.1	Ca_kabuli_chr04	32181724	AA	TT	1946815457
SNP_P4_54607_32181725	NC_021163.1	Ca_kabuli_chr04	32181725	GG	TT	1946815459
SNP_P4_54609_32182759	NC_021163.1	Ca_kabuli_chr04	32182759	GG	TT	1946815461
SNP_P4_54610_32182796	NC_021163.1	Ca_kabuli_chr04	32182796	AA	TT	1946815463
SNP_P4_54611_32182842	NC_021163.1	Ca_kabuli_chr04	32182842	CC	TT	1946815465
SNP_P4_54612_32182869	NC_021163.1	Ca_kabuli_chr04	32182869	CC	TT	1946815467
SNP_P4_54613_32182871	NC_021163.1	Ca_kabuli_chr04	32182871	AA	TT	1946815469
SNP_P4_54614_32183307	NC_021163.1	Ca_kabuli_chr04	32183307	GG	CC	1946815471
SNP_P4_54615_32183493	NC_021163.1	Ca_kabuli_chr04	32183493	GG	AA	1946815473
SNP_P4_54617_32183659	NC_021163.1	Ca_kabuli_chr04	32183659	TT	AA	1946815475
SNP_P4_54618_32183754	NC_021163.1	Ca_kabuli_chr04	32183754	CC	TT	1946815477
SNP_P4_54619_32184340	NC_021163.1	Ca_kabuli_chr04	32184340	GG	AA	1946815479
SNP_P4_54620_32184628	NC_021163.1	Ca_kabuli_chr04	32184628	GG	AA	1946815481
SNP_P4_54621_32188375	NC_021163.1	Ca_kabuli_chr04	32188375	GG	TT	1946815483
SNP_P4_54622_32189137	NC_021163.1	Ca_kabuli_chr04	32189137	AA	CC	1946815485
SNP_P4_54623_32189590	NC_021163.1	Ca_kabuli_chr04	32189590	AA	CC	1946815487
SNP_P4_54624_32190526	NC_021163.1	Ca_kabuli_chr04	32190526	GG	AA	1946815489
SNP_P4_54625_32203152	NC_021163.1	Ca_kabuli_chr04	32203152	AA	GG	1946815491
SNP_P4_54626_32203160	NC_021163.1	Ca_kabuli_chr04	32203160	GG	TT	1946815493
SNP_P4_54627_32203186	NC_021163.1	Ca_kabuli_chr04	32203186	TT	GG	1946815495
SNP_P4_54628_32204042	NC_021163.1	Ca_kabuli_chr04	32204042	GG	CC	1946815497
SNP_P4_54629_32206082	NC_021163.1	Ca_kabuli_chr04	32206082	GG	AA	1946815499
SNP_P4_54630_32206498	NC_021163.1	Ca_kabuli_chr04	32206498	CC	TT	1946815501
SNP_P4_54631_32206524	NC_021163.1	Ca_kabuli_chr04	32206524	CC	AA	1946815503
SNP_P4_54632_32206658	NC_021163.1	Ca_kabuli_chr04	32206658	AA	TT	1946815505
SNP_P4_54633_32208797	NC_021163.1	Ca_kabuli_chr04	32208797	GG	AA	1946815507

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_54634_32208830	NC_021163.1	Ca_kabuli_chr04	32208830	AA	GG	1946815509
SNP_P4_54635_32208831	NC_021163.1	Ca_kabuli_chr04	32208831	AA	GG	1946815511
SNP_P4_54636_32208849	NC_021163.1	Ca_kabuli_chr04	32208849	GG	AA	1946815513
SNP_P4_54637_32208856	NC_021163.1	Ca_kabuli_chr04	32208856	AA	GG	1946815515
SNP_P4_54638_32209156	NC_021163.1	Ca_kabuli_chr04	32209156	GG	TT	1946815517
SNP_P4_54639_32209160	NC_021163.1	Ca_kabuli_chr04	32209160	CC	TT	1946815519
SNP_P4_54640_32209188	NC_021163.1	Ca_kabuli_chr04	32209188	TT	CC	1946815521
SNP_P4_54641_32209213	NC_021163.1	Ca_kabuli_chr04	32209213	CC	TT	1946815523
SNP_P4_54642_32209218	NC_021163.1	Ca_kabuli_chr04	32209218	GG	AA	1946815525
SNP_P4_54643_32209375	NC_021163.1	Ca_kabuli_chr04	32209375	TT	CC	1946815527
SNP_P4_54644_32209383	NC_021163.1	Ca_kabuli_chr04	32209383	TT	CC	1946815529
SNP_P4_54645_32209428	NC_021163.1	Ca_kabuli_chr04	32209428	TT	CC	1946815531
SNP_P4_54646_32209455	NC_021163.1	Ca_kabuli_chr04	32209455	CC	TT	1946815533
SNP_P4_54647_32209467	NC_021163.1	Ca_kabuli_chr04	32209467	CC	TT	1946815535
SNP_P4_54648_32209469	NC_021163.1	Ca_kabuli_chr04	32209469	AA	GG	1946815537
SNP_P4_54649_32209586	NC_021163.1	Ca_kabuli_chr04	32209586	AA	GG	1946815539
SNP_P4_54650_32209590	NC_021163.1	Ca_kabuli_chr04	32209590	CC	TT	1946815541
SNP_P4_54651_32209610	NC_021163.1	Ca_kabuli_chr04	32209610	TT	CC	1946815543
SNP_P4_54652_32209659	NC_021163.1	Ca_kabuli_chr04	32209659	GG	AA	1946815545
SNP_P4_54653_32209804	NC_021163.1	Ca_kabuli_chr04	32209804	GG	AA	1946815547
SNP_P4_54654_32211162	NC_021163.1	Ca_kabuli_chr04	32211162	CC	AA	1946815549
SNP_P4_54655_32212690	NC_021163.1	Ca_kabuli_chr04	32212690	AA	GG	1946815551
SNP_P4_54656_32212700	NC_021163.1	Ca_kabuli_chr04	32212700	TT	CC	1946815553
SNP_P4_54658_32214893	NC_021163.1	Ca_kabuli_chr04	32214893	AA	TT	1946815555
SNP_P4_54659_32215685	NC_021163.1	Ca_kabuli_chr04	32215685	TT	AA	1946815557
SNP_P4_54660_32215690	NC_021163.1	Ca_kabuli_chr04	32215690	CC	AA	1946815559
SNP_P4_54662_32216885	NC_021163.1	Ca_kabuli_chr04	32216885	AA	GG	1946815561
SNP_P4_54663_32216929	NC_021163.1	Ca_kabuli_chr04	32216929	GG	AA	1946815563
SNP_P4_54664_32217744	NC_021163.1	Ca_kabuli_chr04	32217744	AA	GG	1946815565
SNP_P4_54665_32217864	NC_021163.1	Ca_kabuli_chr04	32217864	CC	TT	1946815567
SNP_P4_54666_32217897	NC_021163.1	Ca_kabuli_chr04	32217897	TT	CC	1946815569
SNP_P4_54667_32218147	NC_021163.1	Ca_kabuli_chr04	32218147	CC	TT	1946815571
SNP_P4_54668_32218176	NC_021163.1	Ca_kabuli_chr04	32218176	GG	AA	1946815573
SNP_P4_54669_32218739	NC_021163.1	Ca_kabuli_chr04	32218739	CC	GG	1946815575
SNP_P4_54670_32219638	NC_021163.1	Ca_kabuli_chr04	32219638	CC	TT	1946815577
SNP_P4_54671_32219963	NC_021163.1	Ca_kabuli_chr04	32219963	AA	CC	1946815579
SNP_P4_54672_32219972	NC_021163.1	Ca_kabuli_chr04	32219972	GG	AA	1946815581
SNP_P4_54674_32220159	NC_021163.1	Ca_kabuli_chr04	32220159	TT	CC	1946815583
SNP_P4_54675_32220163	NC_021163.1	Ca_kabuli_chr04	32220163	AA	GG	1946815585
SNP_P4_54676_32220522	NC_021163.1	Ca_kabuli_chr04	32220522	GG	AA	1946815587
SNP_P4_54677_32220704	NC_021163.1	Ca_kabuli_chr04	32220704	CC	TT	1946815589
SNP_P4_54678_32220759	NC_021163.1	Ca_kabuli_chr04	32220759	TT	CC	1946815591

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_54680_32220770	NC_021163.1	Ca_kabuli_chr04	32220770	AA	GG	1946815595
SNP_P4_54681_32220771	NC_021163.1	Ca_kabuli_chr04	32220771	GG	TT	1946815597
SNP_P4_54682_32220807	NC_021163.1	Ca_kabuli_chr04	32220807	AA	GG	1946815599
SNP_P4_54683_32220897	NC_021163.1	Ca_kabuli_chr04	32220897	TT	CC	1946815601
SNP_P4_54684_32220955	NC_021163.1	Ca_kabuli_chr04	32220955	CC	TT	1946815603
SNP_P4_54685_32221017	NC_021163.1	Ca_kabuli_chr04	32221017	GG	TT	1946815605
SNP_P4_54686_32221091	NC_021163.1	Ca_kabuli_chr04	32221091	TT	AA	1946815607
SNP_P4_54687_32221111	NC_021163.1	Ca_kabuli_chr04	32221111	AA	GG	1946815609
SNP_P4_54688_32221112	NC_021163.1	Ca_kabuli_chr04	32221112	AA	TT	1946815611
SNP_P4_54689_32221131	NC_021163.1	Ca_kabuli_chr04	32221131	CC	TT	1946815613
SNP_P4_54690_32221157	NC_021163.1	Ca_kabuli_chr04	32221157	TT	CC	1946815615
SNP_P4_54691_32221158	NC_021163.1	Ca_kabuli_chr04	32221158	CC	TT	1946815617
SNP_P4_54692_32221179	NC_021163.1	Ca_kabuli_chr04	32221179	CC	TT	1946815619
SNP_P4_54693_32221313	NC_021163.1	Ca_kabuli_chr04	32221313	AA	CC	1946815621
SNP_P4_54694_32221981	NC_021163.1	Ca_kabuli_chr04	32221981	TT	CC	1946815623
SNP_P4_54695_32221992	NC_021163.1	Ca_kabuli_chr04	32221992	GG	AA	1946815625
SNP_P4_54696_32222395	NC_021163.1	Ca_kabuli_chr04	32222395	GG	AA	1946815627
SNP_P4_54697_32222405	NC_021163.1	Ca_kabuli_chr04	32222405	GG	AA	1946815630
SNP_P4_54698_32222431	NC_021163.1	Ca_kabuli_chr04	32222431	AA	GG	1946815632
SNP_P4_54699_32222451	NC_021163.1	Ca_kabuli_chr04	32222451	TT	GG	1946815634
SNP_P4_54700_32223066	NC_021163.1	Ca_kabuli_chr04	32223066	TT	CC	1946815636
SNP_P4_54701_32223074	NC_021163.1	Ca_kabuli_chr04	32223074	TT	GG	1946815638
SNP_P4_54702_32223105	NC_021163.1	Ca_kabuli_chr04	32223105	TT	AA	1946815640
SNP_P4_54703_32223153	NC_021163.1	Ca_kabuli_chr04	32223153	AA	GG	1946815642
SNP_P4_54704_32223214	NC_021163.1	Ca_kabuli_chr04	32223214	GG	AA	1946815644
SNP_P4_54705_32223228	NC_021163.1	Ca_kabuli_chr04	32223228	GG	TT	1946815646
SNP_P4_54706_32223258	NC_021163.1	Ca_kabuli_chr04	32223258	TT	GG	1946815648
SNP_P4_54707_32223292	NC_021163.1	Ca_kabuli_chr04	32223292	GG	AA	1946815650
SNP_P4_54708_32223320	NC_021163.1	Ca_kabuli_chr04	32223320	CC	TT	1946815652
SNP_P4_54709_32223430	NC_021163.1	Ca_kabuli_chr04	32223430	CC	AA	1946815654
SNP_P4_54710_32223464	NC_021163.1	Ca_kabuli_chr04	32223464	GG	TT	1946815656
SNP_P4_54711_32223510	NC_021163.1	Ca_kabuli_chr04	32223510	GG	AA	1946815658
SNP_P4_54712_32223522	NC_021163.1	Ca_kabuli_chr04	32223522	TT	GG	1946815660
SNP_P4_54713_32223620	NC_021163.1	Ca_kabuli_chr04	32223620	AA	CC	1946815662
SNP_P4_54714_32223736	NC_021163.1	Ca_kabuli_chr04	32223736	CC	AA	1946815665
SNP_P4_54716_32224286	NC_021163.1	Ca_kabuli_chr04	32224286	TT	CC	1946815666
SNP_P4_54717_32224305	NC_021163.1	Ca_kabuli_chr04	32224305	CC	TT	1946815667
SNP_P4_54718_32224535	NC_021163.1	Ca_kabuli_chr04	32224535	TT	AA	1946815668
SNP_P4_54719_32224543	NC_021163.1	Ca_kabuli_chr04	32224543	AA	GG	1946815669
SNP_P4_54720_32224627	NC_021163.1	Ca_kabuli_chr04	32224627	CC	TT	1946815670
SNP_P4_54721_32224696	NC_021163.1	Ca_kabuli_chr04	32224696	AA	GG	1946815671

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_54724_32224852	NC_021163.1	Ca_kabuli_chr04	32224852	CC	TT	1946815673
SNP_P4_54725_32224857	NC_021163.1	Ca_kabuli_chr04	32224857	GG	AA	1946815674
SNP_P4_54726_32224911	NC_021163.1	Ca_kabuli_chr04	32224911	GG	AA	1946815675
SNP_P4_54727_32224942	NC_021163.1	Ca_kabuli_chr04	32224942	CC	TT	1946815676
SNP_P4_54728_32225054	NC_021163.1	Ca_kabuli_chr04	32225054	TT	CC	1946815677
SNP_P4_54729_32225062	NC_021163.1	Ca_kabuli_chr04	32225062	AA	GG	1946815678
SNP_P4_54730_32225081	NC_021163.1	Ca_kabuli_chr04	32225081	AA	GG	1946815679
SNP_P4_54731_32225100	NC_021163.1	Ca_kabuli_chr04	32225100	TT	AA	1946815680
SNP_P4_54732_32225127	NC_021163.1	Ca_kabuli_chr04	32225127	AA	CC	1946815681
SNP_P4_54733_32225135	NC_021163.1	Ca_kabuli_chr04	32225135	CC	TT	1946815683
SNP_P4_54734_32225173	NC_021163.1	Ca_kabuli_chr04	32225173	CC	TT	1946815685
SNP_P4_54735_32225231	NC_021163.1	Ca_kabuli_chr04	32225231	AA	GG	1946815687
SNP_P4_54736_32225341	NC_021163.1	Ca_kabuli_chr04	32225341	TT	CC	1946815689
SNP_P4_54737_32225389	NC_021163.1	Ca_kabuli_chr04	32225389	TT	CC	1946815691
SNP_P4_54739_32225469	NC_021163.1	Ca_kabuli_chr04	32225469	GG	TT	1946815693
SNP_P4_54740_32225490	NC_021163.1	Ca_kabuli_chr04	32225490	GG	AA	1946815695
SNP_P4_54742_32226288	NC_021163.1	Ca_kabuli_chr04	32226288	GG	CC	1946815697
SNP_P4_54743_32227174	NC_021163.1	Ca_kabuli_chr04	32227174	GG	AA	1946815699
SNP_P4_54744_32227204	NC_021163.1	Ca_kabuli_chr04	32227204	CC	AA	1946815701
SNP_P4_54746_32227337	NC_021163.1	Ca_kabuli_chr04	32227337	AA	CC	1946815703
SNP_P4_54748_32227679	NC_021163.1	Ca_kabuli_chr04	32227679	GG	AA	1946815705
SNP_P4_54749_32227759	NC_021163.1	Ca_kabuli_chr04	32227759	GG	AA	1946815707
SNP_P4_54750_32231537	NC_021163.1	Ca_kabuli_chr04	32231537	GG	AA	1946815709
SNP_P4_54751_32232019	NC_021163.1	Ca_kabuli_chr04	32232019	CC	TT	1946815711
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SNP_P4_54756_32236613	NC_021163.1	Ca_kabuli_chr04	32236613	AA	GG	1946815720
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SNP_P4_54758_32236620	NC_021163.1	Ca_kabuli_chr04	32236620	CC	TT	1946815724
SNP_P4_54759_32238509	NC_021163.1	Ca_kabuli_chr04	32238509	TT	AA	1946815726
SNP_P4_54760_32239443	NC_021163.1	Ca_kabuli_chr04	32239443	TT	CC	1946815728
SNP_P4_54761_32239935	NC_021163.1	Ca_kabuli_chr04	32239935	TT	AA	1946815730
SNP_P4_54763_32241722	NC_021163.1	Ca_kabuli_chr04	32241722	GG	CC	1946815732
SNP_P4_54764_32241731	NC_021163.1	Ca_kabuli_chr04	32241731	GG	CC	1946815734
SNP_P4_54766_32242528	NC_021163.1	Ca_kabuli_chr04	32242528	CC	AA	1946815736
SNP_P4_54767_32243858	NC_021163.1	Ca_kabuli_chr04	32243858	TT	CC	1946815738
SNP_P4_54768_32255618	NC_021163.1	Ca_kabuli_chr04	32255618	TT	CC	1946815740
SNP_P4_54769_32255638	NC_021163.1	Ca_kabuli_chr04	32255638	GG	CC	1946815742
SNP_P4_54770_32255644	NC_021163.1	Ca_kabuli_chr04	32255644	GG	AA	1946815744
SNP_P4_54771_32256007	NC_021163.1	Ca_kabuli_chr04	32256007	GG	AA	1946815746

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_54776_32258673	NC_021163.1	Ca_kabuli_chr04	32258673	CC	TT	1946815752
SNP_P4_54777_32258707	NC_021163.1	Ca_kabuli_chr04	32258707	AA	TT	1946815755
SNP_P4_54778_32258711	NC_021163.1	Ca_kabuli_chr04	32258711	AA	GG	1946815757
SNP_P4_54779_32258716	NC_021163.1	Ca_kabuli_chr04	32258716	GG	AA	1946815759
SNP_P4_54780_32259136	NC_021163.1	Ca_kabuli_chr04	32259136	CC	TT	1946815761
SNP_P4_54781_32262450	NC_021163.1	Ca_kabuli_chr04	32262450	CC	TT	1946815763
SNP_P4_54782_32262451	NC_021163.1	Ca_kabuli_chr04	32262451	TT	AA	1946815765
SNP_P4_54783_32262532	NC_021163.1	Ca_kabuli_chr04	32262532	GG	AA	1946815767
SNP_P4_54784_32262553	NC_021163.1	Ca_kabuli_chr04	32262553	CC	TT	1946815769
SNP_P4_54785_32262633	NC_021163.1	Ca_kabuli_chr04	32262633	GG	AA	1946815771
SNP_P4_54786_32262645	NC_021163.1	Ca_kabuli_chr04	32262645	TT	GG	1946815773
SNP_P4_54787_32262672	NC_021163.1	Ca_kabuli_chr04	32262672	TT	CC	1946815775
SNP_P4_54788_32262686	NC_021163.1	Ca_kabuli_chr04	32262686	TT	CC	1946815777
SNP_P4_54789_32262689	NC_021163.1	Ca_kabuli_chr04	32262689	CC	TT	1946815779
SNP_P4_54790_32262850	NC_021163.1	Ca_kabuli_chr04	32262850	GG	TT	1946815781
SNP_P4_54791_32262861	NC_021163.1	Ca_kabuli_chr04	32262861	GG	AA	1946815783
SNP_P4_54792_32262884	NC_021163.1	Ca_kabuli_chr04	32262884	GG	AA	1946815786
SNP_P4_54793_32263078	NC_021163.1	Ca_kabuli_chr04	32263078	AA	GG	1946815788
SNP_P4_54794_32263276	NC_021163.1	Ca_kabuli_chr04	32263276	GG	AA	1946815790
SNP_P4_54795_32263323	NC_021163.1	Ca_kabuli_chr04	32263323	AA	CC	1946815792
SNP_P4_54797_32263666	NC_021163.1	Ca_kabuli_chr04	32263666	CC	TT	1946815794
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SNP_P4_54802_32264256	NC_021163.1	Ca_kabuli_chr04	32264256	CC	TT	1946815802
SNP_P4_54804_32264338	NC_021163.1	Ca_kabuli_chr04	32264338	GG	AA	1946815804
SNP_P4_54805_32264355	NC_021163.1	Ca_kabuli_chr04	32264355	TT	CC	1946815806
SNP_P4_54806_32264378	NC_021163.1	Ca_kabuli_chr04	32264378	CC	TT	1946815808
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SNP_P4_54808_32264383	NC_021163.1	Ca_kabuli_chr04	32264383	AA	TT	1946815812
SNP_P4_54809_32264384	NC_021163.1	Ca_kabuli_chr04	32264384	AA	TT	1946815814
SNP_P4_54812_32264654	NC_021163.1	Ca_kabuli_chr04	32264654	AA	CC	1946815816
SNP_P4_54813_32264962	NC_021163.1	Ca_kabuli_chr04	32264962	TT	CC	1946815818
SNP_P4_54815_32265004	NC_021163.1	Ca_kabuli_chr04	32265004	CC	TT	1946815820
SNP_P4_54816_32265038	NC_021163.1	Ca_kabuli_chr04	32265038	GG	CC	1946815822
SNP_P4_54817_32266350	NC_021163.1	Ca_kabuli_chr04	32266350	TT	CC	1946815824
SNP_P4_54818_32266353	NC_021163.1	Ca_kabuli_chr04	32266353	AA	GG	1946815826
SNP_P4_54819_32266513	NC_021163.1	Ca_kabuli_chr04	32266513	CC	TT	1946815828
SNP_P4_54820_32266574	NC_021163.1	Ca_kabuli_chr04	32266574	TT	CC	1946815830
SNP_P4_54821_32266662	NC_021163.1	Ca_kabuli_chr04	32266662	CC	TT	1946815832

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_54824_32267021	NC_021163.1	Ca_kabuli_chr04	32267021	TT	CC	1946815839
SNP_P4_54825_32267070	NC_021163.1	Ca_kabuli_chr04	32267070	AA	CC	1946815841
SNP_P4_54826_32267631	NC_021163.1	Ca_kabuli_chr04	32267631	TT	GG	1946815843
SNP_P4_54827_32267933	NC_021163.1	Ca_kabuli_chr04	32267933	TT	CC	1946815845
SNP_P4_54828_32271682	NC_021163.1	Ca_kabuli_chr04	32271682	CC	TT	1946815847
SNP_P4_54829_32271683	NC_021163.1	Ca_kabuli_chr04	32271683	CC	TT	1946815849
SNP_P4_54830_32271684	NC_021163.1	Ca_kabuli_chr04	32271684	AA	TT	1946815851
SNP_P4_54831_32280823	NC_021163.1	Ca_kabuli_chr04	32280823	CC	TT	1946815853
SNP_P4_54833_32291411	NC_021163.1	Ca_kabuli_chr04	32291411	CC	TT	1946815855
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SNP_P4_54835_32291737	NC_021163.1	Ca_kabuli_chr04	32291737	GG	TT	1946815859
SNP_P4_54836_32291738	NC_021163.1	Ca_kabuli_chr04	32291738	AA	TT	1946815861
SNP_P4_54837_32292369	NC_021163.1	Ca_kabuli_chr04	32292369	GG	AA	1946815863
SNP_P4_54838_32297830	NC_021163.1	Ca_kabuli_chr04	32297830	CC	GG	1946815865
SNP_P4_54839_32297848	NC_021163.1	Ca_kabuli_chr04	32297848	GG	AA	1946815866
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SNP_P4_54842_32298017	NC_021163.1	Ca_kabuli_chr04	32298017	AA	GG	1946815870
SNP_P4_54843_32298033	NC_021163.1	Ca_kabuli_chr04	32298033	GG	AA	1946815872
SNP_P4_54845_32300844	NC_021163.1	Ca_kabuli_chr04	32300844	AA	CC	1946815874
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SNP_P4_54847_32316703	NC_021163.1	Ca_kabuli_chr04	32316703	TT	CC	1946815878
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SNP_P4_54851_32316998	NC_021163.1	Ca_kabuli_chr04	32316998	CC	AA	1946815886
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SNP_P4_54853_32317031	NC_021163.1	Ca_kabuli_chr04	32317031	AA	GG	1946815891
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SNP_P4_54855_32317214	NC_021163.1	Ca_kabuli_chr04	32317214	GG	TT	1946815895
SNP_P4_54856_32317223	NC_021163.1	Ca_kabuli_chr04	32317223	GG	AA	1946815897
SNP_P4_54857_32318167	NC_021163.1	Ca_kabuli_chr04	32318167	CC	AA	1946815899
SNP_P4_54858_32318224	NC_021163.1	Ca_kabuli_chr04	32318224	AA	GG	1946815901
SNP_P4_54859_32318349	NC_021163.1	Ca_kabuli_chr04	32318349	CC	TT	1946815903
SNP_P4_54860_32318351	NC_021163.1	Ca_kabuli_chr04	32318351	AA	GG	1946815905
SNP_P4_54861_32318368	NC_021163.1	Ca_kabuli_chr04	32318368	TT	CC	1946815907
SNP_P4_54862_32318382	NC_021163.1	Ca_kabuli_chr04	32318382	GG	AA	1946815910
SNP_P4_54863_32318389	NC_021163.1	Ca_kabuli_chr04	32318389	TT	CC	1946815912
SNP_P4_54864_32321714	NC_021163.1	Ca_kabuli_chr04	32321714	TT	CC	1946815914
SNP_P4_54865_32331905	NC_021163.1	Ca_kabuli_chr04	32331905	AA	TT	1946815916
SNP_P4_54866_32331935	NC_021163.1	Ca_kabuli_chr04	32331935	TT	CC	1946815918

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_54871_32335276	NC_021163.1	Ca_kabuli_chr04	32335276	AA	GG	1946815926
SNP_P4_54872_32335461	NC_021163.1	Ca_kabuli_chr04	32335461	TT	CC	1946815928
SNP_P4_54873_32335620	NC_021163.1	Ca_kabuli_chr04	32335620	CC	GG	1946815930
SNP_P4_54874_32335699	NC_021163.1	Ca_kabuli_chr04	32335699	TT	CC	1946815932
SNP_P4_54875_32335720	NC_021163.1	Ca_kabuli_chr04	32335720	CC	TT	1946815934
SNP_P4_54876_32335742	NC_021163.1	Ca_kabuli_chr04	32335742	TT	GG	1946815936
SNP_P4_54877_32336986	NC_021163.1	Ca_kabuli_chr04	32336986	AA	TT	1946815938
SNP_P4_54878_32339316	NC_021163.1	Ca_kabuli_chr04	32339316	AA	GG	1946815940
SNP_P4_54879_32344941	NC_021163.1	Ca_kabuli_chr04	32344941	CC	TT	1946815942
SNP_P4_54880_32348069	NC_021163.1	Ca_kabuli_chr04	32348069	AA	TT	1946815944
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SNP_P4_54882_32351225	NC_021163.1	Ca_kabuli_chr04	32351225	TT	CC	1946815948
SNP_P4_54883_32351227	NC_021163.1	Ca_kabuli_chr04	32351227	TT	CC	1946815950
SNP_P4_54884_32351239	NC_021163.1	Ca_kabuli_chr04	32351239	TT	CC	1946815952
SNP_P4_54885_32351244	NC_021163.1	Ca_kabuli_chr04	32351244	CC	AA	1946815954
SNP_P4_54887_32351884	NC_021163.1	Ca_kabuli_chr04	32351884	AA	GG	1946815956
SNP_P4_54888_32363877	NC_021163.1	Ca_kabuli_chr04	32363877	TT	GG	1946815957
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SNP_P4_54890_32363943	NC_021163.1	Ca_kabuli_chr04	32363943	GG	AA	1946815961
SNP_P4_54891_32364564	NC_021163.1	Ca_kabuli_chr04	32364564	CC	TT	1946815963
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SNP_P4_54893_32364898	NC_021163.1	Ca_kabuli_chr04	32364898	GG	CC	1946815967
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SNP_P4_54896_32365244	NC_021163.1	Ca_kabuli_chr04	32365244	CC	AA	1946815973
SNP_P4_54897_32365374	NC_021163.1	Ca_kabuli_chr04	32365374	GG	AA	1946815975
SNP_P4_54898_32365718	NC_021163.1	Ca_kabuli_chr04	32365718	CC	TT	1946815977
SNP_P4_54899_32366364	NC_021163.1	Ca_kabuli_chr04	32366364	GG	AA	1946815979
SNP_P4_54900_32367242	NC_021163.1	Ca_kabuli_chr04	32367242	TT	AA	1946815981
SNP_P4_54901_32368333	NC_021163.1	Ca_kabuli_chr04	32368333	GG	CC	1946815983
SNP_P4_54902_32373256	NC_021163.1	Ca_kabuli_chr04	32373256	GG	AA	1946815985
SNP_P4_54903_32373345	NC_021163.1	Ca_kabuli_chr04	32373345	GG	TT	1946815987
SNP_P4_54904_32373384	NC_021163.1	Ca_kabuli_chr04	32373384	AA	GG	1946815989
SNP_P4_54905_32373421	NC_021163.1	Ca_kabuli_chr04	32373421	CC	TT	1946815991
SNP_P4_54906_32373569	NC_021163.1	Ca_kabuli_chr04	32373569	CC	AA	1946815993
SNP_P4_54907_32373603	NC_021163.1	Ca_kabuli_chr04	32373603	AA	GG	1946815995
SNP_P4_54909_32373632	NC_021163.1	Ca_kabuli_chr04	32373632	CC	AA	1946815997
SNP_P4_54910_32373650	NC_021163.1	Ca_kabuli_chr04	32373650	GG	TT	1946816000
SNP_P4_54912_32373700	NC_021163.1	Ca_kabuli_chr04	32373700	AA	GG	1946816002

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_54913_32373772	NC_021163.1	Ca_kabuli_chr04	32373772	AA	TT	1946816004
SNP_P4_54914_32373773	NC_021163.1	Ca_kabuli_chr04	32373773	AA	TT	1946816006
SNP_P4_54915_32373774	NC_021163.1	Ca_kabuli_chr04	32373774	AA	TT	1946816008
SNP_P4_54916_32373930	NC_021163.1	Ca_kabuli_chr04	32373930	CC	TT	1946816010
SNP_P4_54917_32374161	NC_021163.1	Ca_kabuli_chr04	32374161	CC	GG	1946816011
SNP_P4_54918_32374359	NC_021163.1	Ca_kabuli_chr04	32374359	GG	AA	1946816013
SNP_P4_54919_32375390	NC_021163.1	Ca_kabuli_chr04	32375390	AA	GG	1946816015
SNP_P4_54920_32375391	NC_021163.1	Ca_kabuli_chr04	32375391	AA	GG	1946816017
SNP_P4_54921_32375471	NC_021163.1	Ca_kabuli_chr04	32375471	TT	CC	1946816019
SNP_P4_54922_32375496	NC_021163.1	Ca_kabuli_chr04	32375496	GG	AA	1946816021
SNP_P4_54923_32375500	NC_021163.1	Ca_kabuli_chr04	32375500	TT	CC	1946816023
SNP_P4_54924_32375811	NC_021163.1	Ca_kabuli_chr04	32375811	CC	TT	1946816025
SNP_P4_54925_32376026	NC_021163.1	Ca_kabuli_chr04	32376026	GG	TT	1946816027
SNP_P4_54926_32376245	NC_021163.1	Ca_kabuli_chr04	32376245	CC	TT	1946816029
SNP_P4_54927_32376502	NC_021163.1	Ca_kabuli_chr04	32376502	GG	CC	1946816031
SNP_P4_54928_32376745	NC_021163.1	Ca_kabuli_chr04	32376745	GG	AA	1946816033
SNP_P4_54929_32376746	NC_021163.1	Ca_kabuli_chr04	32376746	TT	CC	1946816035
SNP_P4_54930_32376776	NC_021163.1	Ca_kabuli_chr04	32376776	GG	TT	1946816037
SNP_P4_54931_32377884	NC_021163.1	Ca_kabuli_chr04	32377884	AA	CC	1946816039
SNP_P4_54932_32378137	NC_021163.1	Ca_kabuli_chr04	32378137	AA	GG	1946816041
SNP_P4_54933_32378169	NC_021163.1	Ca_kabuli_chr04	32378169	TT	CC	1946816043
SNP_P4_54934_32378359	NC_021163.1	Ca_kabuli_chr04	32378359	AA	TT	1946816046
SNP_P4_54935_32378376	NC_021163.1	Ca_kabuli_chr04	32378376	CC	TT	1946816048
SNP_P4_54936_32378580	NC_021163.1	Ca_kabuli_chr04	32378580	CC	TT	1946816051
SNP_P4_54938_32380371	NC_021163.1	Ca_kabuli_chr04	32380371	TT	GG	1946816053
SNP_P4_54939_32380422	NC_021163.1	Ca_kabuli_chr04	32380422	TT	CC	1946816055
SNP_P4_54940_32381396	NC_021163.1	Ca_kabuli_chr04	32381396	TT	GG	1946816057
SNP_P4_54941_32381903	NC_021163.1	Ca_kabuli_chr04	32381903	TT	AA	1946816059
SNP_P4_54943_32382152	NC_021163.1	Ca_kabuli_chr04	32382152	CC	TT	1946816061
SNP_P4_54944_32383371	NC_021163.1	Ca_kabuli_chr04	32383371	GG	TT	1946816063
SNP_P4_54945_32386922	NC_021163.1	Ca_kabuli_chr04	32386922	GG	TT	1946816065
SNP_P4_54946_32387089	NC_021163.1	Ca_kabuli_chr04	32387089	TT	GG	1946816067
SNP_P4_54947_32387705	NC_021163.1	Ca_kabuli_chr04	32387705	AA	GG	1946816069
SNP_P4_54948_32387757	NC_021163.1	Ca_kabuli_chr04	32387757	GG	AA	1946816071
SNP_P4_54949_32388280	NC_021163.1	Ca_kabuli_chr04	32388280	CC	TT	1946816073
SNP_P4_54951_32388950	NC_021163.1	Ca_kabuli_chr04	32388950	GG	CC	1946816075
SNP_P4_54952_32388955	NC_021163.1	Ca_kabuli_chr04	32388955	GG	AA	1946816077
SNP_P4_54954_32389006	NC_021163.1	Ca_kabuli_chr04	32389006	CC	TT	1946816079
SNP_P4_54955_32389012	NC_021163.1	Ca_kabuli_chr04	32389012	TT	AA	1946816081
SNP_P4_54956_32389021	NC_021163.1	Ca_kabuli_chr04	32389021	GG	AA	1946816083
SNP_P4_54957_32392330	NC_021163.1	Ca_kabuli_chr04	32392330	CC	TT	1946816085
SNP_P4_54958_32393001	NC_021163.1	Ca_kabuli_chr04	32393001	TT	GG	1946816087

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_54962_32395942	NC_021163.1	Ca_kabuli_chr04	32395942	AA	GG	1946816091
SNP_P4_54963_32397439	NC_021163.1	Ca_kabuli_chr04	32397439	TT	GG	1946816094
SNP_P4_54964_32397486	NC_021163.1	Ca_kabuli_chr04	32397486	AA	TT	1946816096
SNP_P4_54965_32397745	NC_021163.1	Ca_kabuli_chr04	32397745	TT	AA	1946816098
SNP_P4_54966_32397791	NC_021163.1	Ca_kabuli_chr04	32397791	CC	TT	1946816100
SNP_P4_54967_32397804	NC_021163.1	Ca_kabuli_chr04	32397804	GG	AA	1946816102
SNP_P4_54968_32398049	NC_021163.1	Ca_kabuli_chr04	32398049	GG	AA	1946816104
SNP_P4_54969_32398075	NC_021163.1	Ca_kabuli_chr04	32398075	TT	CC	1946816106
SNP_P4_54970_32400244	NC_021163.1	Ca_kabuli_chr04	32400244	TT	CC	1946816108
SNP_P4_54971_32402031	NC_021163.1	Ca_kabuli_chr04	32402031	GG	CC	1946816110
SNP_P4_54972_32402066	NC_021163.1	Ca_kabuli_chr04	32402066	TT	CC	1946816112
SNP_P4_54973_32404326	NC_021163.1	Ca_kabuli_chr04	32404326	TT	CC	1946816114
SNP_P4_54974_32404398	NC_021163.1	Ca_kabuli_chr04	32404398	AA	CC	1946816116
SNP_P4_54975_32404433	NC_021163.1	Ca_kabuli_chr04	32404433	TT	CC	1946816118
SNP_P4_54976_32404604	NC_021163.1	Ca_kabuli_chr04	32404604	TT	CC	1946816120
SNP_P4_54979_32411652	NC_021163.1	Ca_kabuli_chr04	32411652	AA	GG	1946816122
SNP_P4_54980_32411657	NC_021163.1	Ca_kabuli_chr04	32411657	GG	TT	1946816124
SNP_P4_54981_32412012	NC_021163.1	Ca_kabuli_chr04	32412012	TT	CC	1946816126
SNP_P4_54982_32412288	NC_021163.1	Ca_kabuli_chr04	32412288	GG	AA	1946816128
SNP_P4_54983_32412289	NC_021163.1	Ca_kabuli_chr04	32412289	CC	AA	1946816131
SNP_P4_54984_32412330	NC_021163.1	Ca_kabuli_chr04	32412330	CC	TT	1946816133
SNP_P4_54985_32412335	NC_021163.1	Ca_kabuli_chr04	32412335	AA	TT	1946816135
SNP_P4_54986_32412339	NC_021163.1	Ca_kabuli_chr04	32412339	AA	TT	1946816137
SNP_P4_54987_32412340	NC_021163.1	Ca_kabuli_chr04	32412340	GG	TT	1946816139
SNP_P4_54988_32412664	NC_021163.1	Ca_kabuli_chr04	32412664	AA	GG	1946816141
SNP_P4_54990_32413589	NC_021163.1	Ca_kabuli_chr04	32413589	AA	GG	1946816143
SNP_P4_54991_32413782	NC_021163.1	Ca_kabuli_chr04	32413782	TT	CC	1946816145
SNP_P4_54992_32415669	NC_021163.1	Ca_kabuli_chr04	32415669	CC	TT	1946816147
SNP_P4_54993_32415738	NC_021163.1	Ca_kabuli_chr04	32415738	GG	AA	1946816149
SNP_P4_54994_32415762	NC_021163.1	Ca_kabuli_chr04	32415762	CC	TT	1946816151
SNP_P4_54995_32415765	NC_021163.1	Ca_kabuli_chr04	32415765	TT	CC	1946816153
SNP_P4_54996_32415768	NC_021163.1	Ca_kabuli_chr04	32415768	GG	AA	1946816155
SNP_P4_54997_32415804	NC_021163.1	Ca_kabuli_chr04	32415804	AA	CC	1946816157
SNP_P4_54998_32415853	NC_021163.1	Ca_kabuli_chr04	32415853	CC	GG	1946816159
SNP_P4_54999_32415856	NC_021163.1	Ca_kabuli_chr04	32415856	AA	GG	1946816161
SNP_P4_55000_32415857	NC_021163.1	Ca_kabuli_chr04	32415857	GG	AA	1946816163
SNP_P4_55001_32416917	NC_021163.1	Ca_kabuli_chr04	32416917	TT	CC	1946816166
SNP_P4_55002_32416947	NC_021163.1	Ca_kabuli_chr04	32416947	CC	TT	1946816168
SNP_P4_55003_32416964	NC_021163.1	Ca_kabuli_chr04	32416964	TT	CC	1946816170
SNP_P4_55004_32417325	NC_021163.1	Ca_kabuli_chr04	32417325	AA	TT	1946816172
SNP_P4_55005_32422848	NC_021163.1	Ca_kabuli_chr04	32422848	GG	TT	1946816174

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_55007_32431899	NC_021163.1	Ca_kabuli_chr04	32431899	GG	TT	1946816178
SNP_P4_55008_32431971	NC_021163.1	Ca_kabuli_chr04	32431971	CC	TT	1946816180
SNP_P4_55009_32432124	NC_021163.1	Ca_kabuli_chr04	32432124	GG	AA	1946816182
SNP_P4_55010_32432148	NC_021163.1	Ca_kabuli_chr04	32432148	TT	CC	1946816184
SNP_P4_55012_32432222	NC_021163.1	Ca_kabuli_chr04	32432222	TT	AA	1946816186
SNP_P4_55013_32432422	NC_021163.1	Ca_kabuli_chr04	32432422	AA	GG	1946816188
SNP_P4_55014_32445950	NC_021163.1	Ca_kabuli_chr04	32445950	GG	AA	1946816190
SNP_P4_55015_32450390	NC_021163.1	Ca_kabuli_chr04	32450390	TT	CC	1946816192
SNP_P4_55017_32450654	NC_021163.1	Ca_kabuli_chr04	32450654	TT	AA	1946816194
SNP_P4_55018_32454996	NC_021163.1	Ca_kabuli_chr04	32454996	TT	GG	1946816196
SNP_P4_55019_32455603	NC_021163.1	Ca_kabuli_chr04	32455603	GG	CC	1946816198
SNP_P4_55020_32455765	NC_021163.1	Ca_kabuli_chr04	32455765	GG	AA	1946816200
SNP_P4_55021_32455823	NC_021163.1	Ca_kabuli_chr04	32455823	AA	GG	1946816202
SNP_P4_55022_32455963	NC_021163.1	Ca_kabuli_chr04	32455963	CC	TT	1946816204
SNP_P4_55024_32457668	NC_021163.1	Ca_kabuli_chr04	32457668	CC	AA	1946816206
SNP_P4_55025_32458057	NC_021163.1	Ca_kabuli_chr04	32458057	GG	AA	1946816208
SNP_P4_55026_32458880	NC_021163.1	Ca_kabuli_chr04	32458880	GG	AA	1946816210
SNP_P4_55027_32458961	NC_021163.1	Ca_kabuli_chr04	32458961	GG	AA	1946816212
SNP_P4_55028_32459106	NC_021163.1	Ca_kabuli_chr04	32459106	CC	AA	1946816214
SNP_P4_55029_32459201	NC_021163.1	Ca_kabuli_chr04	32459201	TT	AA	1946816217
SNP_P4_55031_32465396	NC_021163.1	Ca_kabuli_chr04	32465396	TT	AA	1946816219
SNP_P4_55033_32466515	NC_021163.1	Ca_kabuli_chr04	32466515	AA	CC	1946816221
SNP_P4_55034_32466717	NC_021163.1	Ca_kabuli_chr04	32466717	AA	CC	1946816223
SNP_P4_55035_32466817	NC_021163.1	Ca_kabuli_chr04	32466817	TT	CC	1946816225
SNP_P4_55036_32466826	NC_021163.1	Ca_kabuli_chr04	32466826	GG	CC	1946816227
SNP_P4_55037_32468239	NC_021163.1	Ca_kabuli_chr04	32468239	TT	AA	1946816229
SNP_P4_55038_32468258	NC_021163.1	Ca_kabuli_chr04	32468258	AA	GG	1946816231
SNP_P4_55039_32468333	NC_021163.1	Ca_kabuli_chr04	32468333	CC	TT	1946816233
SNP_P4_55040_32470155	NC_021163.1	Ca_kabuli_chr04	32470155	TT	CC	1946816235
SNP_P4_55042_32470205	NC_021163.1	Ca_kabuli_chr04	32470205	CC	TT	1946816237
SNP_P4_55043_32470210	NC_021163.1	Ca_kabuli_chr04	32470210	GG	AA	1946816239
SNP_P4_55044_32470231	NC_021163.1	Ca_kabuli_chr04	32470231	CC	TT	1946816241
SNP_P4_55045_32470492	NC_021163.1	Ca_kabuli_chr04	32470492	GG	AA	1946816243
SNP_P4_55046_32471622	NC_021163.1	Ca_kabuli_chr04	32471622	GG	TT	1946816245
SNP_P4_55047_32471651	NC_021163.1	Ca_kabuli_chr04	32471651	GG	AA	1946816247
SNP_P4_55048_32473200	NC_021163.1	Ca_kabuli_chr04	32473200	GG	AA	1946816249
SNP_P4_55049_32474436	NC_021163.1	Ca_kabuli_chr04	32474436	GG	TT	1946816251
SNP_P4_55050_32474735	NC_021163.1	Ca_kabuli_chr04	32474735	TT	CC	1946816253
SNP_P4_55051_32474877	NC_021163.1	Ca_kabuli_chr04	32474877	AA	GG	1946816255
SNP_P4_55053_32475095	NC_021163.1	Ca_kabuli_chr04	32475095	GG	AA	1946816257
SNP_P4_55054_32481187	NC_021163.1	Ca_kabuli_chr04	32481187	AA	CC	1946816259

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_55056_32481218	NC_021163.1	Ca_kabuli_chr04	32481218	AA	GG	1946816263
SNP_P4_55057_32481367	NC_021163.1	Ca_kabuli_chr04	32481367	GG	AA	1946816265
SNP_P4_55058_32481426	NC_021163.1	Ca_kabuli_chr04	32481426	GG	AA	1946816267
SNP_P4_55059_32481452	NC_021163.1	Ca_kabuli_chr04	32481452	CC	TT	1946816269
SNP_P4_55060_32481453	NC_021163.1	Ca_kabuli_chr04	32481453	CC	AA	1946816271
SNP_P4_55061_32481948	NC_021163.1	Ca_kabuli_chr04	32481948	TT	CC	1946816273
SNP_P4_55062_32481950	NC_021163.1	Ca_kabuli_chr04	32481950	TT	GG	1946816275
SNP_P4_55063_32483254	NC_021163.1	Ca_kabuli_chr04	32483254	CC	AA	1946816277
SNP_P4_55064_32483260	NC_021163.1	Ca_kabuli_chr04	32483260	AA	TT	1946816279
SNP_P4_55065_32483357	NC_021163.1	Ca_kabuli_chr04	32483357	CC	AA	1946816281
SNP_P4_55066_32483552	NC_021163.1	Ca_kabuli_chr04	32483552	CC	AA	1946816283
SNP_P4_55067_32483585	NC_021163.1	Ca_kabuli_chr04	32483585	CC	TT	1946816285
SNP_P4_55068_32483615	NC_021163.1	Ca_kabuli_chr04	32483615	AA	CC	1946816287
SNP_P4_55069_32483851	NC_021163.1	Ca_kabuli_chr04	32483851	CC	TT	1946816289
SNP_P4_55070_32485524	NC_021163.1	Ca_kabuli_chr04	32485524	CC	TT	1946816291
SNP_P4_55072_32485791	NC_021163.1	Ca_kabuli_chr04	32485791	CC	TT	1946816293
SNP_P4_55073_32487014	NC_021163.1	Ca_kabuli_chr04	32487014	TT	AA	1946816296
SNP_P4_55074_32487021	NC_021163.1	Ca_kabuli_chr04	32487021	GG	AA	1946816298
SNP_P4_55076_32488738	NC_021163.1	Ca_kabuli_chr04	32488738	TT	CC	1946816300
SNP_P4_55077_32488748	NC_021163.1	Ca_kabuli_chr04	32488748	AA	GG	1946816302
SNP_P4_55078_32488910	NC_021163.1	Ca_kabuli_chr04	32488910	GG	AA	1946816304
SNP_P4_55079_32488914	NC_021163.1	Ca_kabuli_chr04	32488914	AA	GG	1946816306
SNP_P4_55080_32489426	NC_021163.1	Ca_kabuli_chr04	32489426	CC	AA	1946816308
SNP_P4_55081_32489699	NC_021163.1	Ca_kabuli_chr04	32489699	GG	AA	1946816310
SNP_P4_55082_32489724	NC_021163.1	Ca_kabuli_chr04	32489724	TT	CC	1946816312
SNP_P4_55084_32489945	NC_021163.1	Ca_kabuli_chr04	32489945	CC	AA	1946816314
SNP_P4_55085_32489957	NC_021163.1	Ca_kabuli_chr04	32489957	AA	GG	1946816316
SNP_P4_55087_32492637	NC_021163.1	Ca_kabuli_chr04	32492637	CC	TT	1946816319
SNP_P4_55088_32492642	NC_021163.1	Ca_kabuli_chr04	32492642	AA	GG	1946816321
SNP_P4_55089_32493316	NC_021163.1	Ca_kabuli_chr04	32493316	AA	GG	1946816323
SNP_P4_55091_32494495	NC_021163.1	Ca_kabuli_chr04	32494495	AA	TT	1946816325
SNP_P4_55092_32494509	NC_021163.1	Ca_kabuli_chr04	32494509	TT	CC	1946816327
SNP_P4_55093_32494741	NC_021163.1	Ca_kabuli_chr04	32494741	AA	TT	1946816329
SNP_P4_55094_32494816	NC_021163.1	Ca_kabuli_chr04	32494816	AA	GG	1946816331
SNP_P4_55095_32495146	NC_021163.1	Ca_kabuli_chr04	32495146	AA	TT	1946816333
SNP_P4_55096_32496960	NC_021163.1	Ca_kabuli_chr04	32496960	AA	CC	1946816335
SNP_P4_55097_32497075	NC_021163.1	Ca_kabuli_chr04	32497075	GG	AA	1946816337
SNP_P4_55098_32497256	NC_021163.1	Ca_kabuli_chr04	32497256	GG	AA	1946816339
SNP_P4_55099_32497827	NC_021163.1	Ca_kabuli_chr04	32497827	TT	CC	1946816341
SNP_P4_55101_32500164	NC_021163.1	Ca_kabuli_chr04	32500164	AA	TT	1946816343
SNP_P4_55102_32500454	NC_021163.1	Ca_kabuli_chr04	32500454	AA	TT	1946816345

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_55104_32509008	NC_021163.1	Ca_kabuli_chr04	32509008	GG	AA	1946816349
SNP_P4_55105_32509150	NC_021163.1	Ca_kabuli_chr04	32509150	TT	CC	1946816351
SNP_P4_55106_32509167	NC_021163.1	Ca_kabuli_chr04	32509167	CC	AA	1946816353
SNP_P4_55107_32509332	NC_021163.1	Ca_kabuli_chr04	32509332	GG	AA	1946816355
SNP_P4_55109_32509692	NC_021163.1	Ca_kabuli_chr04	32509692	TT	CC	1946816357
SNP_P4_55111_32510240	NC_021163.1	Ca_kabuli_chr04	32510240	TT	CC	1946816359
SNP_P4_55112_32510495	NC_021163.1	Ca_kabuli_chr04	32510495	TT	CC	1946816361
SNP_P4_55113_32510512	NC_021163.1	Ca_kabuli_chr04	32510512	AA	TT	1946816363
SNP_P4_55114_32510536	NC_021163.1	Ca_kabuli_chr04	32510536	TT	CC	1946816365
SNP_P4_55115_32510625	NC_021163.1	Ca_kabuli_chr04	32510625	TT	CC	1946816367
SNP_P4_55116_32510684	NC_021163.1	Ca_kabuli_chr04	32510684	CC	TT	1946816369
SNP_P4_55117_32510730	NC_021163.1	Ca_kabuli_chr04	32510730	AA	GG	1946816371
SNP_P4_55118_32510795	NC_021163.1	Ca_kabuli_chr04	32510795	CC	AA	1946816373
SNP_P4_55119_32510977	NC_021163.1	Ca_kabuli_chr04	32510977	TT	CC	1946816375
SNP_P4_55120_32511010	NC_021163.1	Ca_kabuli_chr04	32511010	AA	CC	1946816377
SNP_P4_55123_32511898	NC_021163.1	Ca_kabuli_chr04	32511898	CC	TT	1946816379
SNP_P4_55125_32511942	NC_021163.1	Ca_kabuli_chr04	32511942	CC	TT	1946816381
SNP_P4_55126_32512774	NC_021163.1	Ca_kabuli_chr04	32512774	GG	AA	1946816383
SNP_P4_55127_32513081	NC_021163.1	Ca_kabuli_chr04	32513081	AA	CC	1946816385
SNP_P4_55129_32513507	NC_021163.1	Ca_kabuli_chr04	32513507	TT	GG	1946816387
SNP_P4_55130_32514193	NC_021163.1	Ca_kabuli_chr04	32514193	AA	GG	1946816389
SNP_P4_55132_32516308	NC_021163.1	Ca_kabuli_chr04	32516308	GG	AA	1946816392
SNP_P4_55133_32516418	NC_021163.1	Ca_kabuli_chr04	32516418	AA	GG	1946816394
SNP_P4_55134_32519875	NC_021163.1	Ca_kabuli_chr04	32519875	CC	TT	1946816396
SNP_P4_55135_32519908	NC_021163.1	Ca_kabuli_chr04	32519908	GG	AA	1946816398
SNP_P4_55137_32522537	NC_021163.1	Ca_kabuli_chr04	32522537	TT	GG	1946816400
SNP_P4_55139_32523496	NC_021163.1	Ca_kabuli_chr04	32523496	GG	AA	1946816402
SNP_P4_55140_32523530	NC_021163.1	Ca_kabuli_chr04	32523530	CC	TT	1946816404
SNP_P4_55141_32523542	NC_021163.1	Ca_kabuli_chr04	32523542	TT	AA	1946816406
SNP_P4_55143_32523578	NC_021163.1	Ca_kabuli_chr04	32523578	TT	AA	1946816408
SNP_P4_55144_32523587	NC_021163.1	Ca_kabuli_chr04	32523587	AA	GG	1946816410
SNP_P4_55145_32523854	NC_021163.1	Ca_kabuli_chr04	32523854	TT	CC	1946816412
SNP_P4_55146_32523994	NC_021163.1	Ca_kabuli_chr04	32523994	AA	GG	1946816414
SNP_P4_55147_32524240	NC_021163.1	Ca_kabuli_chr04	32524240	CC	TT	1946816416
SNP_P4_55148_32524305	NC_021163.1	Ca_kabuli_chr04	32524305	GG	CC	1946816418
SNP_P4_55149_32524440	NC_021163.1	Ca_kabuli_chr04	32524440	GG	AA	1946816420
SNP_P4_55150_32524442	NC_021163.1	Ca_kabuli_chr04	32524442	TT	AA	1946816422
SNP_P4_55151_32524472	NC_021163.1	Ca_kabuli_chr04	32524472	AA	GG	1946816424
SNP_P4_55152_32524532	NC_021163.1	Ca_kabuli_chr04	32524532	AA	GG	1946816426
SNP_P4_55153_32524545	NC_021163.1	Ca_kabuli_chr04	32524545	TT	CC	1946816428
SNP_P4_55155_32525524	NC_021163.1	Ca_kabuli_chr04	32525524	GG	TT	1946816430

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_55157_32526807	NC_021163.1	Ca_kabuli_chr04	32526807	TT	CC	1946816434
SNP_P4_55158_32526905	NC_021163.1	Ca_kabuli_chr04	32526905	CC	TT	1946816436
SNP_P4_55159_32526920	NC_021163.1	Ca_kabuli_chr04	32526920	GG	AA	1946816438
SNP_P4_55160_32527307	NC_021163.1	Ca_kabuli_chr04	32527307	CC	TT	1946816440
SNP_P4_55161_32527308	NC_021163.1	Ca_kabuli_chr04	32527308	AA	TT	1946816442
SNP_P4_55162_32529117	NC_021163.1	Ca_kabuli_chr04	32529117	TT	AA	1946816444
SNP_P4_55163_32530565	NC_021163.1	Ca_kabuli_chr04	32530565	CC	TT	1946816446
SNP_P4_55164_32530910	NC_021163.1	Ca_kabuli_chr04	32530910	GG	AA	1946816448
SNP_P4_55165_32531221	NC_021163.1	Ca_kabuli_chr04	32531221	CC	TT	1946816450
SNP_P4_55166_32531412	NC_021163.1	Ca_kabuli_chr04	32531412	TT	CC	1946816452
SNP_P4_55168_32531488	NC_021163.1	Ca_kabuli_chr04	32531488	GG	CC	1946816454
SNP_P4_55169_32531949	NC_021163.1	Ca_kabuli_chr04	32531949	CC	AA	1946816456
SNP_P4_55170_32531976	NC_021163.1	Ca_kabuli_chr04	32531976	AA	TT	1946816458
SNP_P4_55171_32531983	NC_021163.1	Ca_kabuli_chr04	32531983	CC	TT	1946816461
SNP_P4_55172_32534166	NC_021163.1	Ca_kabuli_chr04	32534166	CC	TT	1946816463
SNP_P4_55173_32534195	NC_021163.1	Ca_kabuli_chr04	32534195	CC	GG	1946816465
SNP_P4_55174_32534441	NC_021163.1	Ca_kabuli_chr04	32534441	CC	AA	1946816467
SNP_P4_55175_32537072	NC_021163.1	Ca_kabuli_chr04	32537072	GG	CC	1946816469
SNP_P4_55176_32537426	NC_021163.1	Ca_kabuli_chr04	32537426	CC	AA	1946816471
SNP_P4_55177_32537952	NC_021163.1	Ca_kabuli_chr04	32537952	CC	TT	1946816473
SNP_P4_55178_32538416	NC_021163.1	Ca_kabuli_chr04	32538416	TT	CC	1946816475
SNP_P4_55179_32538452	NC_021163.1	Ca_kabuli_chr04	32538452	GG	AA	1946816477
SNP_P4_55180_32538747	NC_021163.1	Ca_kabuli_chr04	32538747	TT	CC	1946816479
SNP_P4_55181_32545496	NC_021163.1	Ca_kabuli_chr04	32545496	AA	GG	1946816481
SNP_P4_55182_32545500	NC_021163.1	Ca_kabuli_chr04	32545500	CC	TT	1946816483
SNP_P4_55183_32545523	NC_021163.1	Ca_kabuli_chr04	32545523	CC	TT	1946816485
SNP_P4_55184_32545548	NC_021163.1	Ca_kabuli_chr04	32545548	GG	CC	1946816487
SNP_P4_55186_32550418	NC_021163.1	Ca_kabuli_chr04	32550418	AA	GG	1946816489
SNP_P4_55187_32550910	NC_021163.1	Ca_kabuli_chr04	32550910	TT	AA	1946816491
SNP_P4_55188_32550916	NC_021163.1	Ca_kabuli_chr04	32550916	AA	GG	1946816493
SNP_P4_55189_32550932	NC_021163.1	Ca_kabuli_chr04	32550932	AA	GG	1946816495
SNP_P4_55190_32551390	NC_021163.1	Ca_kabuli_chr04	32551390	AA	GG	1946816497
SNP_P4_55191_32551760	NC_021163.1	Ca_kabuli_chr04	32551760	AA	GG	1946816499
SNP_P4_55192_32551832	NC_021163.1	Ca_kabuli_chr04	32551832	CC	TT	1946816501
SNP_P4_55193_32552885	NC_021163.1	Ca_kabuli_chr04	32552885	AA	TT	1946816503
SNP_P4_55194_32552919	NC_021163.1	Ca_kabuli_chr04	32552919	AA	GG	1946816505
SNP_P4_55195_32554124	NC_021163.1	Ca_kabuli_chr04	32554124	TT	CC	1946816507
SNP_P4_55196_32554281	NC_021163.1	Ca_kabuli_chr04	32554281	GG	AA	1946816509
SNP_P4_55198_32554449	NC_021163.1	Ca_kabuli_chr04	32554449	AA	GG	1946816511
SNP_P4_55199_32554498	NC_021163.1	Ca_kabuli_chr04	32554498	CC	TT	1946816513
SNP_P4_55200_32554502	NC_021163.1	Ca_kabuli_chr04	32554502	CC	TT	1946816515

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_55202_32556032	NC_021163.1	Ca_kabuli_chr04	32556032	AA	GG	1946816519
SNP_P4_55203_32556973	NC_021163.1	Ca_kabuli_chr04	32556973	CC	TT	1946816521
SNP_P4_55204_32558071	NC_021163.1	Ca_kabuli_chr04	32558071	AA	GG	1946816523
SNP_P4_55205_32558086	NC_021163.1	Ca_kabuli_chr04	32558086	AA	GG	1946816525
SNP_P4_55208_32559951	NC_021163.1	Ca_kabuli_chr04	32559951	TT	CC	1946816527
SNP_P4_55209_32560079	NC_021163.1	Ca_kabuli_chr04	32560079	CC	TT	1946816529
SNP_P4_55210_32561718	NC_021163.1	Ca_kabuli_chr04	32561718	TT	CC	1946816531
SNP_P4_55211_32561953	NC_021163.1	Ca_kabuli_chr04	32561953	TT	CC	1946816533
SNP_P4_55212_32562148	NC_021163.1	Ca_kabuli_chr04	32562148	GG	AA	1946816535
SNP_P4_55214_32562586	NC_021163.1	Ca_kabuli_chr04	32562586	AA	GG	1946816537
SNP_P4_55215_32565446	NC_021163.1	Ca_kabuli_chr04	32565446	CC	GG	1946816540
SNP_P4_55217_32567093	NC_021163.1	Ca_kabuli_chr04	32567093	CC	GG	1946816542
SNP_P4_55220_32568221	NC_021163.1	Ca_kabuli_chr04	32568221	CC	TT	1946816544
SNP_P4_55221_32568512	NC_021163.1	Ca_kabuli_chr04	32568512	AA	GG	1946816546
SNP_P4_55222_32568976	NC_021163.1	Ca_kabuli_chr04	32568976	TT	AA	1946816548
SNP_P4_55223_32569008	NC_021163.1	Ca_kabuli_chr04	32569008	CC	GG	1946816550
SNP_P4_55224_32569165	NC_021163.1	Ca_kabuli_chr04	32569165	TT	CC	1946816552
SNP_P4_55225_32569790	NC_021163.1	Ca_kabuli_chr04	32569790	AA	GG	1946816554
SNP_P4_55226_32570501	NC_021163.1	Ca_kabuli_chr04	32570501	GG	AA	1946816556
SNP_P4_55227_32576348	NC_021163.1	Ca_kabuli_chr04	32576348	GG	AA	1946816558
SNP_P4_55228_32576558	NC_021163.1	Ca_kabuli_chr04	32576558	AA	CC	1946816560
SNP_P4_55229_32576581	NC_021163.1	Ca_kabuli_chr04	32576581	TT	CC	1946816562
SNP_P4_55230_32576622	NC_021163.1	Ca_kabuli_chr04	32576622	TT	AA	1946816564
SNP_P4_55231_32576638	NC_021163.1	Ca_kabuli_chr04	32576638	AA	GG	1946816566
SNP_P4_55232_32578903	NC_021163.1	Ca_kabuli_chr04	32578903	GG	AA	1946816568
SNP_P4_55233_32578950	NC_021163.1	Ca_kabuli_chr04	32578950	GG	TT	1946816570
SNP_P4_55234_32579558	NC_021163.1	Ca_kabuli_chr04	32579558	AA	CC	1946816572
SNP_P4_55235_32580847	NC_021163.1	Ca_kabuli_chr04	32580847	AA	GG	1946816574
SNP_P4_55236_32581366	NC_021163.1	Ca_kabuli_chr04	32581366	TT	GG	1946816576
SNP_P4_55237_32581371	NC_021163.1	Ca_kabuli_chr04	32581371	TT	CC	1946816578
SNP_P4_55238_32581393	NC_021163.1	Ca_kabuli_chr04	32581393	AA	GG	1946816580
SNP_P4_55239_32581441	NC_021163.1	Ca_kabuli_chr04	32581441	GG	TT	1946816582
SNP_P4_55240_32581442	NC_021163.1	Ca_kabuli_chr04	32581442	AA	GG	1946816584
SNP_P4_55241_32581460	NC_021163.1	Ca_kabuli_chr04	32581460	CC	AA	1946816586
SNP_P4_55242_32581734	NC_021163.1	Ca_kabuli_chr04	32581734	GG	AA	1946816588
SNP_P4_55243_32581878	NC_021163.1	Ca_kabuli_chr04	32581878	GG	AA	1946816590
SNP_P4_55244_32581902	NC_021163.1	Ca_kabuli_chr04	32581902	TT	CC	1946816592
SNP_P4_55245_32583457	NC_021163.1	Ca_kabuli_chr04	32583457	AA	TT	1946816594
SNP_P4_55248_32587903	NC_021163.1	Ca_kabuli_chr04	32587903	TT	CC	1946816596
SNP_P4_55249_32587904	NC_021163.1	Ca_kabuli_chr04	32587904	AA	TT	1946816598
SNP_P4_55250_32588077	NC_021163.1	Ca_kabuli_chr04	32588077	CC	TT	1946816600

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_55252_32589704	NC_021163.1	Ca_kabuli_chr04	32589704	TT	AA	1946816604
SNP_P4_55253_32590130	NC_021163.1	Ca_kabuli_chr04	32590130	GG	TT	1946816606
SNP_P4_55255_32590591	NC_021163.1	Ca_kabuli_chr04	32590591	TT	CC	1946816608
SNP_P4_55256_32590667	NC_021163.1	Ca_kabuli_chr04	32590667	GG	TT	1946816610
SNP_P4_55257_32590805	NC_021163.1	Ca_kabuli_chr04	32590805	GG	AA	1946816612
SNP_P4_55259_32593013	NC_021163.1	Ca_kabuli_chr04	32593013	GG	AA	1946816614
SNP_P4_55260_32594385	NC_021163.1	Ca_kabuli_chr04	32594385	CC	TT	1946816616
SNP_P4_55261_32594923	NC_021163.1	Ca_kabuli_chr04	32594923	TT	CC	1946816618
SNP_P4_55262_32595056	NC_021163.1	Ca_kabuli_chr04	32595056	CC	TT	1946816620
SNP_P4_55263_32597457	NC_021163.1	Ca_kabuli_chr04	32597457	AA	GG	1946816622
SNP_P4_55264_32598208	NC_021163.1	Ca_kabuli_chr04	32598208	CC	TT	1946816625
SNP_P4_55265_32598458	NC_021163.1	Ca_kabuli_chr04	32598458	GG	AA	1946816627
SNP_P4_55266_32601318	NC_021163.1	Ca_kabuli_chr04	32601318	AA	GG	1946816629
SNP_P4_55267_32602011	NC_021163.1	Ca_kabuli_chr04	32602011	GG	AA	1946816631
SNP_P4_55269_32602382	NC_021163.1	Ca_kabuli_chr04	32602382	AA	TT	1946816633
SNP_P4_55270_32602586	NC_021163.1	Ca_kabuli_chr04	32602586	CC	TT	1946816635
SNP_P4_55272_32603146	NC_021163.1	Ca_kabuli_chr04	32603146	TT	AA	1946816637
SNP_P4_55273_32603371	NC_021163.1	Ca_kabuli_chr04	32603371	AA	GG	1946816639
SNP_P4_55274_32603390	NC_021163.1	Ca_kabuli_chr04	32603390	AA	GG	1946816641
SNP_P4_55275_32603828	NC_021163.1	Ca_kabuli_chr04	32603828	CC	TT	1946816643
SNP_P4_55276_32604313	NC_021163.1	Ca_kabuli_chr04	32604313	TT	CC	1946816645
SNP_P4_55277_32604538	NC_021163.1	Ca_kabuli_chr04	32604538	CC	TT	1946816647
SNP_P4_55278_32604997	NC_021163.1	Ca_kabuli_chr04	32604997	AA	GG	1946816649
SNP_P4_55279_32605580	NC_021163.1	Ca_kabuli_chr04	32605580	TT	CC	1946816651
SNP_P4_55280_32606622	NC_021163.1	Ca_kabuli_chr04	32606622	TT	AA	1946816653
SNP_P4_55281_32608905	NC_021163.1	Ca_kabuli_chr04	32608905	GG	AA	1946816655
SNP_P4_55282_32608908	NC_021163.1	Ca_kabuli_chr04	32608908	GG	AA	1946816657
SNP_P4_55283_32609130	NC_021163.1	Ca_kabuli_chr04	32609130	GG	AA	1946816659
SNP_P4_55284_32609375	NC_021163.1	Ca_kabuli_chr04	32609375	AA	GG	1946816661
SNP_P4_55285_32609649	NC_021163.1	Ca_kabuli_chr04	32609649	GG	TT	1946816663
SNP_P4_55286_32609695	NC_021163.1	Ca_kabuli_chr04	32609695	TT	CC	1946816665
SNP_P4_55287_32609701	NC_021163.1	Ca_kabuli_chr04	32609701	CC	AA	1946816667
SNP_P4_55288_32610160	NC_021163.1	Ca_kabuli_chr04	32610160	AA	GG	1946816669
SNP_P4_55289_32615579	NC_021163.1	Ca_kabuli_chr04	32615579	TT	CC	1946816671
SNP_P4_55291_32615640	NC_021163.1	Ca_kabuli_chr04	32615640	CC	TT	1946816673
SNP_P4_55292_32615923	NC_021163.1	Ca_kabuli_chr04	32615923	TT	CC	1946816675
SNP_P4_55293_32615953	NC_021163.1	Ca_kabuli_chr04	32615953	CC	AA	1946816677
SNP_P4_55294_32616185	NC_021163.1	Ca_kabuli_chr04	32616185	TT	CC	1946816679
SNP_P4_55295_32618624	NC_021163.1	Ca_kabuli_chr04	32618624	CC	AA	1946816681
SNP_P4_55296_32618630	NC_021163.1	Ca_kabuli_chr04	32618630	CC	TT	1946816683
SNP_P4_55297_32618650	NC_021163.1	Ca_kabuli_chr04	32618650	CC	TT	1946816685

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_55300_32619680	NC_021163.1	Ca_kabuli_chr04	32619680	GG	AA	1946816691
SNP_P4_55301_32620150	NC_021163.1	Ca_kabuli_chr04	32620150	TT	GG	1946816693
SNP_P4_55302_32620162	NC_021163.1	Ca_kabuli_chr04	32620162	GG	AA	1946816696
SNP_P4_55303_32620667	NC_021163.1	Ca_kabuli_chr04	32620667	CC	TT	1946816698
SNP_P4_55304_32621011	NC_021163.1	Ca_kabuli_chr04	32621011	TT	CC	1946816700
SNP_P4_55306_32629535	NC_021163.1	Ca_kabuli_chr04	32629535	GG	AA	1946816702
SNP_P4_55307_32629573	NC_021163.1	Ca_kabuli_chr04	32629573	TT	AA	1946816704
SNP_P4_55309_32634194	NC_021163.1	Ca_kabuli_chr04	32634194	TT	CC	1946816706
SNP_P4_55311_32635638	NC_021163.1	Ca_kabuli_chr04	32635638	GG	AA	1946816709
SNP_P4_55313_32636459	NC_021163.1	Ca_kabuli_chr04	32636459	GG	AA	1946816711
SNP_P4_55314_32638022	NC_021163.1	Ca_kabuli_chr04	32638022	GG	TT	1946816713
SNP_P4_55315_32638542	NC_021163.1	Ca_kabuli_chr04	32638542	CC	GG	1946816715
SNP_P4_55316_32638994	NC_021163.1	Ca_kabuli_chr04	32638994	GG	AA	1946816717
SNP_P4_55317_32639860	NC_021163.1	Ca_kabuli_chr04	32639860	TT	CC	1946816719
SNP_P4_55318_32640058	NC_021163.1	Ca_kabuli_chr04	32640058	CC	TT	1946816721
SNP_P4_55319_32640373	NC_021163.1	Ca_kabuli_chr04	32640373	AA	GG	1946816724
SNP_P4_55320_32641121	NC_021163.1	Ca_kabuli_chr04	32641121	AA	TT	1946816726
SNP_P4_55321_32641428	NC_021163.1	Ca_kabuli_chr04	32641428	CC	TT	1946816728
SNP_P4_55322_32641469	NC_021163.1	Ca_kabuli_chr04	32641469	GG	AA	1946816730
SNP_P4_55323_32641538	NC_021163.1	Ca_kabuli_chr04	32641538	TT	CC	1946816732
SNP_P4_55324_32644084	NC_021163.1	Ca_kabuli_chr04	32644084	AA	CC	1946816734
SNP_P4_55325_32644122	NC_021163.1	Ca_kabuli_chr04	32644122	CC	TT	1946816736
SNP_P4_55327_32644210	NC_021163.1	Ca_kabuli_chr04	32644210	AA	CC	1946816738
SNP_P4_55328_32644211	NC_021163.1	Ca_kabuli_chr04	32644211	GG	AA	1946816740
SNP_P4_55329_32648855	NC_021163.1	Ca_kabuli_chr04	32648855	AA	GG	1946816742
SNP_P4_55330_32649000	NC_021163.1	Ca_kabuli_chr04	32649000	TT	CC	1946816744
SNP_P4_55332_32656623	NC_021163.1	Ca_kabuli_chr04	32656623	GG	AA	1946816746
SNP_P4_55333_32657648	NC_021163.1	Ca_kabuli_chr04	32657648	CC	TT	1946816748
SNP_P4_55335_32665874	NC_021163.1	Ca_kabuli_chr04	32665874	CC	AA	1946816750
SNP_P4_55336_32673206	NC_021163.1	Ca_kabuli_chr04	32673206	TT	CC	1946816752
SNP_P4_55337_32673237	NC_021163.1	Ca_kabuli_chr04	32673237	AA	GG	1946816754
SNP_P4_55338_32673764	NC_021163.1	Ca_kabuli_chr04	32673764	AA	GG	1946816756
SNP_P4_55339_32681007	NC_021163.1	Ca_kabuli_chr04	32681007	TT	CC	1946816758
SNP_P4_55340_32682653	NC_021163.1	Ca_kabuli_chr04	32682653	TT	AA	1946816760
SNP_P4_55341_32682883	NC_021163.1	Ca_kabuli_chr04	32682883	GG	AA	1946816763
SNP_P4_55347_32699643	NC_021163.1	Ca_kabuli_chr04	32699643	AA	CC	1946816765
SNP_P4_55349_32717726	NC_021163.1	Ca_kabuli_chr04	32717726	TT	GG	1946816767
SNP_P4_55350_32735829	NC_021163.1	Ca_kabuli_chr04	32735829	GG	AA	1946816769
SNP_P4_55351_32738700	NC_021163.1	Ca_kabuli_chr04	32738700	AA	CC	1946816771
SNP_P4_55352_32738704	NC_021163.1	Ca_kabuli_chr04	32738704	TT	CC	1946816773

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_55354_32738733	NC_021163.1	Ca_kabuli_chr04	32738733	GG	AA	1946816777
SNP_P4_55355_32738739	NC_021163.1	Ca_kabuli_chr04	32738739	CC	AA	1946816779
SNP_P4_55356_32738754	NC_021163.1	Ca_kabuli_chr04	32738754	GG	AA	1946816781
SNP_P4_55357_32739909	NC_021163.1	Ca_kabuli_chr04	32739909	GG	AA	1946816783
SNP_P4_55358_32739929	NC_021163.1	Ca_kabuli_chr04	32739929	CC	TT	1946816785
SNP_P4_55360_32765112	NC_021163.1	Ca_kabuli_chr04	32765112	TT	CC	1946816787
SNP_P4_55361_32765146	NC_021163.1	Ca_kabuli_chr04	32765146	GG	AA	1946816789
SNP_P4_55362_32766058	NC_021163.1	Ca_kabuli_chr04	32766058	TT	CC	1946816791
SNP_P4_55363_32766152	NC_021163.1	Ca_kabuli_chr04	32766152	CC	TT	1946816793
SNP_P4_55364_32767031	NC_021163.1	Ca_kabuli_chr04	32767031	CC	AA	1946816795
SNP_P4_55365_32767038	NC_021163.1	Ca_kabuli_chr04	32767038	TT	GG	1946816797
SNP_P4_55366_32767057	NC_021163.1	Ca_kabuli_chr04	32767057	GG	AA	1946816799
SNP_P4_55367_32767069	NC_021163.1	Ca_kabuli_chr04	32767069	AA	TT	1946816801
SNP_P4_55368_32767079	NC_021163.1	Ca_kabuli_chr04	32767079	CC	TT	1946816803
SNP_P4_55369_32767287	NC_021163.1	Ca_kabuli_chr04	32767287	CC	TT	1946816805
SNP_P4_55370_32767306	NC_021163.1	Ca_kabuli_chr04	32767306	TT	CC	1946816807
SNP_P4_55371_32767318	NC_021163.1	Ca_kabuli_chr04	32767318	AA	CC	1946816809
SNP_P4_55372_32768828	NC_021163.1	Ca_kabuli_chr04	32768828	TT	CC	1946816811
SNP_P4_55373_32768829	NC_021163.1	Ca_kabuli_chr04	32768829	TT	CC	1946816813
SNP_P4_55374_32768830	NC_021163.1	Ca_kabuli_chr04	32768830	GG	TT	1946816815
SNP_P4_55375_32768835	NC_021163.1	Ca_kabuli_chr04	32768835	GG	AA	1946816817
SNP_P4_55376_32783211	NC_021163.1	Ca_kabuli_chr04	32783211	CC	TT	1946816819
SNP_P4_55377_32792107	NC_021163.1	Ca_kabuli_chr04	32792107	TT	AA	1946816821
SNP_P4_55378_32793483	NC_021163.1	Ca_kabuli_chr04	32793483	AA	GG	1946816823
SNP_P4_55379_32793967	NC_021163.1	Ca_kabuli_chr04	32793967	AA	GG	1946816825
SNP_P4_55380_32795325	NC_021163.1	Ca_kabuli_chr04	32795325	AA	GG	1946816827
SNP_P4_55381_32795328	NC_021163.1	Ca_kabuli_chr04	32795328	GG	TT	1946816829
SNP_P4_55383_32830178	NC_021163.1	Ca_kabuli_chr04	32830178	TT	CC	1946816832
SNP_P4_55384_32861899	NC_021163.1	Ca_kabuli_chr04	32861899	AA	GG	1946816834
SNP_P4_55385_32861926	NC_021163.1	Ca_kabuli_chr04	32861926	GG	AA	1946816836
SNP_P4_55386_32861935	NC_021163.1	Ca_kabuli_chr04	32861935	TT	CC	1946816838
SNP_P4_55387_32861978	NC_021163.1	Ca_kabuli_chr04	32861978	AA	GG	1946816840
SNP_P4_55388_32871626	NC_021163.1	Ca_kabuli_chr04	32871626	TT	GG	1946816842
SNP_P4_55389_32871648	NC_021163.1	Ca_kabuli_chr04	32871648	GG	TT	1946816844
SNP_P4_55390_32873074	NC_021163.1	Ca_kabuli_chr04	32873074	TT	AA	1946816846
SNP_P4_55392_32873093	NC_021163.1	Ca_kabuli_chr04	32873093	TT	AA	1946816848
SNP_P4_55393_32884368	NC_021163.1	Ca_kabuli_chr04	32884368	AA	GG	1946816850
SNP_P4_55394_32885181	NC_021163.1	Ca_kabuli_chr04	32885181	AA	GG	1946816851
SNP_P4_55395_32885342	NC_021163.1	Ca_kabuli_chr04	32885342	AA	GG	1946816852
SNP_P4_55396_32885360	NC_021163.1	Ca_kabuli_chr04	32885360	AA	GG	1946816853
SNP_P4_55397_32885364	NC_021163.1	Ca_kabuli_chr04	32885364	CC	TT	1946816854

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_55399_32885397	NC_021163.1	Ca_kabuli_chr04	32885397	CC	AA	1946816856
SNP_P4_55400_32885401	NC_021163.1	Ca_kabuli_chr04	32885401	TT	GG	1946816857
SNP_P4_55401_32885493	NC_021163.1	Ca_kabuli_chr04	32885493	CC	TT	1946816858
SNP_P4_55402_32885560	NC_021163.1	Ca_kabuli_chr04	32885560	GG	AA	1946816860
SNP_P4_55403_32885592	NC_021163.1	Ca_kabuli_chr04	32885592	CC	GG	1946816862
SNP_P4_55404_32885614	NC_021163.1	Ca_kabuli_chr04	32885614	AA	GG	1946816865
SNP_P4_55405_32885640	NC_021163.1	Ca_kabuli_chr04	32885640	TT	CC	1946816867
SNP_P4_55406_32885657	NC_021163.1	Ca_kabuli_chr04	32885657	CC	TT	1946816869
SNP_P4_55407_32885687	NC_021163.1	Ca_kabuli_chr04	32885687	TT	CC	1946816871
SNP_P4_55408_32885694	NC_021163.1	Ca_kabuli_chr04	32885694	AA	CC	1946816873
SNP_P4_55409_32885833	NC_021163.1	Ca_kabuli_chr04	32885833	AA	CC	1946816876
SNP_P4_55410_32885912	NC_021163.1	Ca_kabuli_chr04	32885912	GG	AA	1946816879
SNP_P4_55411_32885987	NC_021163.1	Ca_kabuli_chr04	32885987	AA	CC	1946816881
SNP_P4_55412_32886065	NC_021163.1	Ca_kabuli_chr04	32886065	GG	AA	1946816883
SNP_P4_55413_32886077	NC_021163.1	Ca_kabuli_chr04	32886077	TT	AA	1946816885
SNP_P4_55414_32886092	NC_021163.1	Ca_kabuli_chr04	32886092	CC	AA	1946816887
SNP_P4_55415_32886149	NC_021163.1	Ca_kabuli_chr04	32886149	AA	CC	1946816889
SNP_P4_55416_32886200	NC_021163.1	Ca_kabuli_chr04	32886200	AA	TT	1946816891
SNP_P4_55417_32886217	NC_021163.1	Ca_kabuli_chr04	32886217	CC	TT	1946816893
SNP_P4_55418_32886233	NC_021163.1	Ca_kabuli_chr04	32886233	GG	AA	1946816895
SNP_P4_55419_32886312	NC_021163.1	Ca_kabuli_chr04	32886312	GG	TT	1946816897
SNP_P4_55420_32886314	NC_021163.1	Ca_kabuli_chr04	32886314	AA	GG	1946816900
SNP_P4_55421_32886372	NC_021163.1	Ca_kabuli_chr04	32886372	AA	GG	1946816902
SNP_P4_55422_32886385	NC_021163.1	Ca_kabuli_chr04	32886385	AA	GG	1946816904
SNP_P4_55424_32886408	NC_021163.1	Ca_kabuli_chr04	32886408	TT	CC	1946816906
SNP_P4_55425_32886442	NC_021163.1	Ca_kabuli_chr04	32886442	TT	CC	1946816909
SNP_P4_55426_32886445	NC_021163.1	Ca_kabuli_chr04	32886445	AA	GG	1946816911
SNP_P4_55427_32886446	NC_021163.1	Ca_kabuli_chr04	32886446	CC	TT	1946816913
SNP_P4_55428_32886469	NC_021163.1	Ca_kabuli_chr04	32886469	GG	AA	1946816915
SNP_P4_55429_32886477	NC_021163.1	Ca_kabuli_chr04	32886477	GG	CC	1946816918
SNP_P4_55430_32886482	NC_021163.1	Ca_kabuli_chr04	32886482	GG	AA	1946816920
SNP_P4_55431_32886496	NC_021163.1	Ca_kabuli_chr04	32886496	TT	CC	1946816922
SNP_P4_55432_32886525	NC_021163.1	Ca_kabuli_chr04	32886525	GG	AA	1946816924
SNP_P4_55433_32886676	NC_021163.1	Ca_kabuli_chr04	32886676	AA	GG	1946816926
SNP_P4_55434_32886720	NC_021163.1	Ca_kabuli_chr04	32886720	GG	AA	1946816929
SNP_P4_55435_32886749	NC_021163.1	Ca_kabuli_chr04	32886749	AA	CC	1946816931
SNP_P4_55436_32886801	NC_021163.1	Ca_kabuli_chr04	32886801	TT	CC	1946816933
SNP_P4_55437_32886887	NC_021163.1	Ca_kabuli_chr04	32886887	AA	GG	1946816935
SNP_P4_55438_32888536	NC_021163.1	Ca_kabuli_chr04	32888536	AA	CC	1946816937
SNP_P4_55439_32888538	NC_021163.1	Ca_kabuli_chr04	32888538	GG	TT	1946816939
SNP_P4_55440_32888760	NC_021163.1	Ca_kabuli_chr04	32888760	AA	CC	1946816941

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_55442_32888845	NC_021163.1	Ca_kabuli_chr04	32888845	TT	CC	1946816945
SNP_P4_55443_32888869	NC_021163.1	Ca_kabuli_chr04	32888869	AA	GG	1946816947
SNP_P4_55444_32890253	NC_021163.1	Ca_kabuli_chr04	32890253	GG	AA	1946816950
SNP_P4_55445_32890258	NC_021163.1	Ca_kabuli_chr04	32890258	TT	CC	1946816952
SNP_P4_55446_32890265	NC_021163.1	Ca_kabuli_chr04	32890265	TT	CC	1946816954
SNP_P4_55447_32890271	NC_021163.1	Ca_kabuli_chr04	32890271	TT	GG	1946816956
SNP_P4_55448_32902298	NC_021163.1	Ca_kabuli_chr04	32902298	AA	GG	1946816958
SNP_P4_55449_32902349	NC_021163.1	Ca_kabuli_chr04	32902349	GG	AA	1946816960
SNP_P4_55451_32902638	NC_021163.1	Ca_kabuli_chr04	32902638	AA	CC	1946816962
SNP_P4_55452_32902670	NC_021163.1	Ca_kabuli_chr04	32902670	CC	GG	1946816964
SNP_P4_55453_32902704	NC_021163.1	Ca_kabuli_chr04	32902704	GG	AA	1946816966
SNP_P4_55454_32902763	NC_021163.1	Ca_kabuli_chr04	32902763	CC	TT	1946816968
SNP_P4_55455_32902771	NC_021163.1	Ca_kabuli_chr04	32902771	CC	TT	1946816970
SNP_P4_55456_32902780	NC_021163.1	Ca_kabuli_chr04	32902780	AA	CC	1946816972
SNP_P4_55457_32902786	NC_021163.1	Ca_kabuli_chr04	32902786	TT	CC	1946816974
SNP_P4_55458_32902812	NC_021163.1	Ca_kabuli_chr04	32902812	GG	CC	1946816976
SNP_P4_55460_32909963	NC_021163.1	Ca_kabuli_chr04	32909963	AA	GG	1946816978
SNP_P4_55462_32917124	NC_021163.1	Ca_kabuli_chr04	32917124	CC	TT	1946816980
SNP_P4_55463_32936922	NC_021163.1	Ca_kabuli_chr04	32936922	CC	GG	1946816982
SNP_P4_55464_32946856	NC_021163.1	Ca_kabuli_chr04	32946856	TT	AA	1946816985
SNP_P4_55465_32946900	NC_021163.1	Ca_kabuli_chr04	32946900	AA	TT	1946816987
SNP_P4_55466_32959305	NC_021163.1	Ca_kabuli_chr04	32959305	AA	TT	1946816989
SNP_P4_55467_32959308	NC_021163.1	Ca_kabuli_chr04	32959308	GG	TT	1946816991
SNP_P4_55468_32959315	NC_021163.1	Ca_kabuli_chr04	32959315	AA	CC	1946816993
SNP_P4_55469_32959670	NC_021163.1	Ca_kabuli_chr04	32959670	TT	CC	1946816995
SNP_P4_55470_32967406	NC_021163.1	Ca_kabuli_chr04	32967406	CC	TT	1946816997
SNP_P4_55471_32967410	NC_021163.1	Ca_kabuli_chr04	32967410	CC	GG	1946816999
SNP_P4_55472_32967975	NC_021163.1	Ca_kabuli_chr04	32967975	AA	CC	1946817001
SNP_P4_55473_32968008	NC_021163.1	Ca_kabuli_chr04	32968008	CC	TT	1946817003
SNP_P4_55474_33030394	NC_021163.1	Ca_kabuli_chr04	33030394	TT	AA	1946817005
SNP_P4_55475_33035819	NC_021163.1	Ca_kabuli_chr04	33035819	TT	AA	1946817007
SNP_P4_55476_33050006	NC_021163.1	Ca_kabuli_chr04	33050006	GG	AA	1946817009
SNP_P4_55477_33050523	NC_021163.1	Ca_kabuli_chr04	33050523	AA	GG	1946817011
SNP_P4_55481_33055232	NC_021163.1	Ca_kabuli_chr04	33055232	AA	GG	1946817013
SNP_P4_55482_33060815	NC_021163.1	Ca_kabuli_chr04	33060815	GG	TT	1946817015
SNP_P4_55484_33069658	NC_021163.1	Ca_kabuli_chr04	33069658	CC	AA	1946817017
SNP_P4_55485_33071060	NC_021163.1	Ca_kabuli_chr04	33071060	AA	GG	1946817019
SNP_P4_55486_33076776	NC_021163.1	Ca_kabuli_chr04	33076776	AA	GG	1946817021
SNP_P4_55487_33076781	NC_021163.1	Ca_kabuli_chr04	33076781	GG	AA	1946817023
SNP_P4_55489_33087597	NC_021163.1	Ca_kabuli_chr04	33087597	CC	TT	1946817025
SNP_P4_55490_33089412	NC_021163.1	Ca_kabuli_chr04	33089412	CC	AA	1946817027

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_55492_33090083	NC_021163.1	Ca_kabuli_chr04	33090083	GG	CC	1946817031
SNP_P4_55493_33091145	NC_021163.1	Ca_kabuli_chr04	33091145	AA	TT	1946817033
SNP_P4_55494_33094369	NC_021163.1	Ca_kabuli_chr04	33094369	TT	CC	1946817036
SNP_P4_55495_33094874	NC_021163.1	Ca_kabuli_chr04	33094874	CC	TT	1946817038
SNP_P4_55496_33095008	NC_021163.1	Ca_kabuli_chr04	33095008	CC	GG	1946817040
SNP_P4_55497_33095026	NC_021163.1	Ca_kabuli_chr04	33095026	CC	GG	1946817042
SNP_P4_55498_33096130	NC_021163.1	Ca_kabuli_chr04	33096130	GG	AA	1946817044
SNP_P4_55499_33098003	NC_021163.1	Ca_kabuli_chr04	33098003	GG	CC	1946817046
SNP_P4_55500_33101544	NC_021163.1	Ca_kabuli_chr04	33101544	TT	CC	1946817048
SNP_P4_55501_33101591	NC_021163.1	Ca_kabuli_chr04	33101591	TT	GG	1946817050
SNP_P4_55502_33101999	NC_021163.1	Ca_kabuli_chr04	33101999	GG	TT	1946817053
SNP_P4_55503_33102636	NC_021163.1	Ca_kabuli_chr04	33102636	CC	GG	1946817055
SNP_P4_55504_33105392	NC_021163.1	Ca_kabuli_chr04	33105392	TT	GG	1946817057
SNP_P4_55505_33106054	NC_021163.1	Ca_kabuli_chr04	33106054	AA	GG	1946817059
SNP_P4_55506_33106613	NC_021163.1	Ca_kabuli_chr04	33106613	AA	GG	1946817061
SNP_P4_55507_33108855	NC_021163.1	Ca_kabuli_chr04	33108855	CC	GG	1946817063
SNP_P4_55508_33115145	NC_021163.1	Ca_kabuli_chr04	33115145	CC	TT	1946817065
SNP_P4_55509_33115235	NC_021163.1	Ca_kabuli_chr04	33115235	GG	TT	1946817067
SNP_P4_55510_33115391	NC_021163.1	Ca_kabuli_chr04	33115391	TT	CC	1946817069
SNP_P4_55511_33120751	NC_021163.1	Ca_kabuli_chr04	33120751	TT	CC	1946817071
SNP_P4_55512_33121083	NC_021163.1	Ca_kabuli_chr04	33121083	CC	TT	1946817074
SNP_P4_55513_33121105	NC_021163.1	Ca_kabuli_chr04	33121105	TT	CC	1946817076
SNP_P4_55514_33121189	NC_021163.1	Ca_kabuli_chr04	33121189	CC	TT	1946817078
SNP_P4_55515_33125779	NC_021163.1	Ca_kabuli_chr04	33125779	TT	AA	1946817080
SNP_P4_55516_33128452	NC_021163.1	Ca_kabuli_chr04	33128452	CC	GG	1946817082
SNP_P4_55517_33129817	NC_021163.1	Ca_kabuli_chr04	33129817	TT	CC	1946817084
SNP_P4_55518_33130017	NC_021163.1	Ca_kabuli_chr04	33130017	GG	TT	1946817086
SNP_P4_55519_33130445	NC_021163.1	Ca_kabuli_chr04	33130445	GG	TT	1946817088
SNP_P4_55520_33130979	NC_021163.1	Ca_kabuli_chr04	33130979	AA	CC	1946817090
SNP_P4_55521_33132306	NC_021163.1	Ca_kabuli_chr04	33132306	AA	GG	1946817092
SNP_P4_55522_33132546	NC_021163.1	Ca_kabuli_chr04	33132546	TT	CC	1946817094
SNP_P4_55523_33133917	NC_021163.1	Ca_kabuli_chr04	33133917	TT	AA	1946817096
SNP_P4_55524_33135278	NC_021163.1	Ca_kabuli_chr04	33135278	CC	TT	1946817098
SNP_P4_55525_33135327	NC_021163.1	Ca_kabuli_chr04	33135327	TT	CC	1946817100
SNP_P4_55526_33135421	NC_021163.1	Ca_kabuli_chr04	33135421	AA	GG	1946817102
SNP_P4_55527_33137108	NC_021163.1	Ca_kabuli_chr04	33137108	GG	TT	1946817104
SNP_P4_55528_33141011	NC_021163.1	Ca_kabuli_chr04	33141011	AA	GG	1946817106
SNP_P4_55529_33143001	NC_021163.1	Ca_kabuli_chr04	33143001	TT	CC	1946817108
SNP_P4_55530_33143052	NC_021163.1	Ca_kabuli_chr04	33143052	AA	GG	1946817110
SNP_P4_55531_33143941	NC_021163.1	Ca_kabuli_chr04	33143941	AA	GG	1946817112
SNP_P4_55532_33145591	NC_021163.1	Ca_kabuli_chr04	33145591	GG	TT	1946817114

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_55535_33166087	NC_021163.1	Ca_kabuli_chr04	33166087	TT	CC	1946817119
SNP_P4_55536_33167701	NC_021163.1	Ca_kabuli_chr04	33167701	TT	CC	1946817121
SNP_P4_55537_33173580	NC_021163.1	Ca_kabuli_chr04	33173580	TT	GG	1946817123
SNP_P4_55539_33179160	NC_021163.1	Ca_kabuli_chr04	33179160	TT	GG	1946817125
SNP_P4_55540_33179286	NC_021163.1	Ca_kabuli_chr04	33179286	AA	GG	1946817127
SNP_P4_55541_33179298	NC_021163.1	Ca_kabuli_chr04	33179298	AA	GG	1946817129
SNP_P4_55542_33185947	NC_021163.1	Ca_kabuli_chr04	33185947	CC	TT	1946817131
SNP_P4_55544_33189487	NC_021163.1	Ca_kabuli_chr04	33189487	TT	GG	1946817133
SNP_P4_55545_33189518	NC_021163.1	Ca_kabuli_chr04	33189518	AA	TT	1946817135
SNP_P4_55546_33194000	NC_021163.1	Ca_kabuli_chr04	33194000	CC	TT	1946817137
SNP_P4_55547_33195083	NC_021163.1	Ca_kabuli_chr04	33195083	CC	TT	1946817139
SNP_P4_55548_33195088	NC_021163.1	Ca_kabuli_chr04	33195088	TT	CC	1946817141
SNP_P4_55549_33195135	NC_021163.1	Ca_kabuli_chr04	33195135	TT	AA	1946817143
SNP_P4_55550_33195226	NC_021163.1	Ca_kabuli_chr04	33195226	GG	AA	1946817145
SNP_P4_55551_33195284	NC_021163.1	Ca_kabuli_chr04	33195284	GG	AA	1946817147
SNP_P4_55552_33195296	NC_021163.1	Ca_kabuli_chr04	33195296	AA	CC	1946817149
SNP_P4_55553_33195437	NC_021163.1	Ca_kabuli_chr04	33195437	CC	TT	1946817151
SNP_P4_55554_33195461	NC_021163.1	Ca_kabuli_chr04	33195461	GG	TT	1946817153
SNP_P4_55555_33195462	NC_021163.1	Ca_kabuli_chr04	33195462	CC	TT	1946817155
SNP_P4_55556_33195533	NC_021163.1	Ca_kabuli_chr04	33195533	AA	GG	1946817157
SNP_P4_55557_33195542	NC_021163.1	Ca_kabuli_chr04	33195542	GG	AA	1946817159
SNP_P4_55558_33195601	NC_021163.1	Ca_kabuli_chr04	33195601	GG	AA	1946817161
SNP_P4_55559_33195625	NC_021163.1	Ca_kabuli_chr04	33195625	CC	AA	1946817163
SNP_P4_55560_33198779	NC_021163.1	Ca_kabuli_chr04	33198779	TT	GG	1946817165
SNP_P4_55561_33200124	NC_021163.1	Ca_kabuli_chr04	33200124	TT	GG	1946817167
SNP_P4_55562_33200704	NC_021163.1	Ca_kabuli_chr04	33200704	AA	GG	1946817169
SNP_P4_55563_33203368	NC_021163.1	Ca_kabuli_chr04	33203368	AA	GG	1946817171
SNP_P4_55564_33203369	NC_021163.1	Ca_kabuli_chr04	33203369	AA	TT	1946817173
SNP_P4_55565_33203370	NC_021163.1	Ca_kabuli_chr04	33203370	AA	TT	1946817175
SNP_P4_55566_33203393	NC_021163.1	Ca_kabuli_chr04	33203393	TT	GG	1946817177
SNP_P4_55568_33207698	NC_021163.1	Ca_kabuli_chr04	33207698	TT	CC	1946817179
SNP_P4_55569_33208327	NC_021163.1	Ca_kabuli_chr04	33208327	CC	AA	1946817181
SNP_P4_55570_33210371	NC_021163.1	Ca_kabuli_chr04	33210371	AA	GG	1946817183
SNP_P4_55571_33210373	NC_021163.1	Ca_kabuli_chr04	33210373	CC	TT	1946817185
SNP_P4_55573_33212267	NC_021163.1	Ca_kabuli_chr04	33212267	AA	CC	1946817187
SNP_P4_55576_33215269	NC_021163.1	Ca_kabuli_chr04	33215269	TT	CC	1946817190
SNP_P4_55577_33215585	NC_021163.1	Ca_kabuli_chr04	33215585	TT	CC	1946817192
SNP_P4_55578_33222955	NC_021163.1	Ca_kabuli_chr04	33222955	GG	AA	1946817194
SNP_P4_55579_33223101	NC_021163.1	Ca_kabuli_chr04	33223101	TT	CC	1946817196
SNP_P4_55580_33223186	NC_021163.1	Ca_kabuli_chr04	33223186	GG	TT	1946817198
SNP_P4_55581_33239287	NC_021163.1	Ca_kabuli_chr04	33239287	GG	AA	1946817200

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_55583_33242258	NC_021163.1	Ca_kabuli_chr04	33242258	TT	AA	1946817204
SNP_P4_55584_33243916	NC_021163.1	Ca_kabuli_chr04	33243916	AA	GG	1946817206
SNP_P4_55585_33252781	NC_021163.1	Ca_kabuli_chr04	33252781	GG	AA	1946817208
SNP_P4_55586_33255537	NC_021163.1	Ca_kabuli_chr04	33255537	GG	TT	1946817210
SNP_P4_55587_33255725	NC_021163.1	Ca_kabuli_chr04	33255725	AA	GG	1946817212
SNP_P4_55588_33256057	NC_021163.1	Ca_kabuli_chr04	33256057	TT	GG	1946817214
SNP_P4_55590_33259039	NC_021163.1	Ca_kabuli_chr04	33259039	AA	CC	1946817216
SNP_P4_55592_33262293	NC_021163.1	Ca_kabuli_chr04	33262293	GG	CC	1946817218
SNP_P4_55593_33264467	NC_021163.1	Ca_kabuli_chr04	33264467	GG	AA	1946817220
SNP_P4_55594_33265849	NC_021163.1	Ca_kabuli_chr04	33265849	TT	CC	1946817222
SNP_P4_55595_33266030	NC_021163.1	Ca_kabuli_chr04	33266030	GG	AA	1946817224
SNP_P4_55596_33269906	NC_021163.1	Ca_kabuli_chr04	33269906	CC	TT	1946817226
SNP_P4_55597_33272476	NC_021163.1	Ca_kabuli_chr04	33272476	TT	GG	1946817229
SNP_P4_55598_33272900	NC_021163.1	Ca_kabuli_chr04	33272900	GG	AA	1946817231
SNP_P4_55599_33274157	NC_021163.1	Ca_kabuli_chr04	33274157	GG	AA	1946817233
SNP_P4_55601_33293410	NC_021163.1	Ca_kabuli_chr04	33293410	AA	GG	1946817235
SNP_P4_55602_33293494	NC_021163.1	Ca_kabuli_chr04	33293494	CC	GG	1946817237
SNP_P4_55604_33300006	NC_021163.1	Ca_kabuli_chr04	33300006	CC	TT	1946817239
SNP_P4_55605_33306758	NC_021163.1	Ca_kabuli_chr04	33306758	GG	AA	1946817241
SNP_P4_55606_33307224	NC_021163.1	Ca_kabuli_chr04	33307224	GG	AA	1946817243
SNP_P4_55607_33307840	NC_021163.1	Ca_kabuli_chr04	33307840	AA	CC	1946817245
SNP_P4_55609_33309002	NC_021163.1	Ca_kabuli_chr04	33309002	TT	CC	1946817247
SNP_P4_55610_33309412	NC_021163.1	Ca_kabuli_chr04	33309412	AA	GG	1946817249
SNP_P4_55611_33311339	NC_021163.1	Ca_kabuli_chr04	33311339	CC	TT	1946817251
SNP_P4_55612_33312098	NC_021163.1	Ca_kabuli_chr04	33312098	CC	TT	1946817253
SNP_P4_55613_33312100	NC_021163.1	Ca_kabuli_chr04	33312100	AA	GG	1946817255
SNP_P4_55614_33312157	NC_021163.1	Ca_kabuli_chr04	33312157	CC	AA	1946817258
SNP_P4_55615_33312288	NC_021163.1	Ca_kabuli_chr04	33312288	TT	CC	1946817260
SNP_P4_55616_33312304	NC_021163.1	Ca_kabuli_chr04	33312304	GG	TT	1946817262
SNP_P4_55617_33314006	NC_021163.1	Ca_kabuli_chr04	33314006	CC	AA	1946817264
SNP_P4_55618_33314008	NC_021163.1	Ca_kabuli_chr04	33314008	TT	AA	1946817266
SNP_P4_55619_33314014	NC_021163.1	Ca_kabuli_chr04	33314014	CC	GG	1946817268
SNP_P4_55620_33314589	NC_021163.1	Ca_kabuli_chr04	33314589	TT	CC	1946817270
SNP_P4_55621_33314592	NC_021163.1	Ca_kabuli_chr04	33314592	GG	TT	1946817272
SNP_P4_55622_33315581	NC_021163.1	Ca_kabuli_chr04	33315581	GG	AA	1946817274
SNP_P4_55623_33315658	NC_021163.1	Ca_kabuli_chr04	33315658	AA	CC	1946817276
SNP_P4_55625_33315735	NC_021163.1	Ca_kabuli_chr04	33315735	GG	TT	1946817278
SNP_P4_55627_33316552	NC_021163.1	Ca_kabuli_chr04	33316552	TT	CC	1946817280
SNP_P4_55628_33317464	NC_021163.1	Ca_kabuli_chr04	33317464	GG	TT	1946817283
SNP_P4_55629_33320435	NC_021163.1	Ca_kabuli_chr04	33320435	TT	CC	1946817285
SNP_P4_55630_33320727	NC_021163.1	Ca_kabuli_chr04	33320727	TT	GG	1946817287

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_55634_33327067	NC_021163.1	Ca_kabuli_chr04	33327067	TT	AA	1946817291
SNP_P4_55635_33329447	NC_021163.1	Ca_kabuli_chr04	33329447	AA	GG	1946817293
SNP_P4_55636_33329448	NC_021163.1	Ca_kabuli_chr04	33329448	GG	AA	1946817295
SNP_P4_55637_33329578	NC_021163.1	Ca_kabuli_chr04	33329578	CC	TT	1946817297
SNP_P4_55638_33329979	NC_021163.1	Ca_kabuli_chr04	33329979	TT	CC	1946817299
SNP_P4_55639_33330731	NC_021163.1	Ca_kabuli_chr04	33330731	CC	GG	1946817301
SNP_P4_55640_33331488	NC_021163.1	Ca_kabuli_chr04	33331488	GG	AA	1946817303
SNP_P4_55641_33331916	NC_021163.1	Ca_kabuli_chr04	33331916	CC	TT	1946817305
SNP_P4_55642_33332119	NC_021163.1	Ca_kabuli_chr04	33332119	AA	CC	1946817307
SNP_P4_55643_33334729	NC_021163.1	Ca_kabuli_chr04	33334729	GG	CC	1946817309
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SNP_P4_55648_33337353	NC_021163.1	Ca_kabuli_chr04	33337353	GG	CC	1946817317
SNP_P4_55649_33337364	NC_021163.1	Ca_kabuli_chr04	33337364	GG	AA	1946817319
SNP_P4_55650_33338024	NC_021163.1	Ca_kabuli_chr04	33338024	TT	CC	1946817321
SNP_P4_55651_33339687	NC_021163.1	Ca_kabuli_chr04	33339687	AA	TT	1946817323
SNP_P4_55652_33339688	NC_021163.1	Ca_kabuli_chr04	33339688	CC	TT	1946817325
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SNP_P4_55654_33340067	NC_021163.1	Ca_kabuli_chr04	33340067	TT	GG	1946817329
SNP_P4_55655_33340151	NC_021163.1	Ca_kabuli_chr04	33340151	AA	GG	1946817331
SNP_P4_55656_33340309	NC_021163.1	Ca_kabuli_chr04	33340309	TT	CC	1946817333
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SNP_P4_55658_33342306	NC_021163.1	Ca_kabuli_chr04	33342306	AA	GG	1946817337
SNP_P4_55659_33342307	NC_021163.1	Ca_kabuli_chr04	33342307	AA	CC	1946817339
SNP_P4_55661_33342877	NC_021163.1	Ca_kabuli_chr04	33342877	CC	TT	1946817341
SNP_P4_55662_33346340	NC_021163.1	Ca_kabuli_chr04	33346340	TT	GG	1946817343
SNP_P4_55663_33346347	NC_021163.1	Ca_kabuli_chr04	33346347	TT	GG	1946817345
SNP_P4_55664_33346358	NC_021163.1	Ca_kabuli_chr04	33346358	AA	TT	1946817347
SNP_P4_55665_33346395	NC_021163.1	Ca_kabuli_chr04	33346395	AA	CC	1946817349
SNP_P4_55666_33346565	NC_021163.1	Ca_kabuli_chr04	33346565	TT	AA	1946817352
SNP_P4_55667_33346582	NC_021163.1	Ca_kabuli_chr04	33346582	GG	TT	1946817354
SNP_P4_55668_33346586	NC_021163.1	Ca_kabuli_chr04	33346586	AA	TT	1946817356
SNP_P4_55669_33346741	NC_021163.1	Ca_kabuli_chr04	33346741	AA	GG	1946817358
SNP_P4_55670_33346804	NC_021163.1	Ca_kabuli_chr04	33346804	GG	TT	1946817360
SNP_P4_55671_33346832	NC_021163.1	Ca_kabuli_chr04	33346832	TT	GG	1946817362
SNP_P4_55673_33347072	NC_021163.1	Ca_kabuli_chr04	33347072	CC	TT	1946817364
SNP_P4_55674_33347134	NC_021163.1	Ca_kabuli_chr04	33347134	AA	TT	1946817366
SNP_P4_55675_33347258	NC_021163.1	Ca_kabuli_chr04	33347258	AA	CC	1946817368
SNP_P4_55676_33347299	NC_021163.1	Ca_kabuli_chr04	33347299	TT	CC	1946817370
SNP_P4_55677_33347416	NC_021163.1	Ca_kabuli_chr04	33347416	GG	TT	1946817372

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_55680_33347516	NC_021163.1	Ca_kabuli_chr04	33347516	TT	CC	1946817378
SNP_P4_55681_33347529	NC_021163.1	Ca_kabuli_chr04	33347529	CC	TT	1946817380
SNP_P4_55682_33347559	NC_021163.1	Ca_kabuli_chr04	33347559	GG	AA	1946817382
SNP_P4_55683_33347589	NC_021163.1	Ca_kabuli_chr04	33347589	AA	CC	1946817384
SNP_P4_55684_33347651	NC_021163.1	Ca_kabuli_chr04	33347651	TT	CC	1946817386
SNP_P4_55685_33347670	NC_021163.1	Ca_kabuli_chr04	33347670	AA	CC	1946817388
SNP_P4_55686_33347692	NC_021163.1	Ca_kabuli_chr04	33347692	TT	CC	1946817390
SNP_P4_55687_33347732	NC_021163.1	Ca_kabuli_chr04	33347732	GG	AA	1946817392
SNP_P4_55688_33347736	NC_021163.1	Ca_kabuli_chr04	33347736	TT	CC	1946817394
SNP_P4_55689_33347746	NC_021163.1	Ca_kabuli_chr04	33347746	AA	GG	1946817396
SNP_P4_55690_33347829	NC_021163.1	Ca_kabuli_chr04	33347829	AA	TT	1946817399
SNP_P4_55691_33347837	NC_021163.1	Ca_kabuli_chr04	33347837	CC	TT	1946817401
SNP_P4_55692_33347870	NC_021163.1	Ca_kabuli_chr04	33347870	AA	GG	1946817403
SNP_P4_55693_33347913	NC_021163.1	Ca_kabuli_chr04	33347913	CC	TT	1946817405
SNP_P4_55694_33347924	NC_021163.1	Ca_kabuli_chr04	33347924	AA	TT	1946817407
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SNP_P4_55696_33348163	NC_021163.1	Ca_kabuli_chr04	33348163	AA	GG	1946817411
SNP_P4_55698_33348285	NC_021163.1	Ca_kabuli_chr04	33348285	GG	TT	1946817413
SNP_P4_55699_33348530	NC_021163.1	Ca_kabuli_chr04	33348530	GG	TT	1946817415
SNP_P4_55700_33348558	NC_021163.1	Ca_kabuli_chr04	33348558	GG	TT	1946817417
SNP_P4_55701_33348677	NC_021163.1	Ca_kabuli_chr04	33348677	GG	TT	1946817419
SNP_P4_55702_33353982	NC_021163.1	Ca_kabuli_chr04	33353982	TT	CC	1946817421
SNP_P4_55703_33354712	NC_021163.1	Ca_kabuli_chr04	33354712	AA	GG	1946817423
SNP_P4_55704_33356253	NC_021163.1	Ca_kabuli_chr04	33356253	GG	TT	1946817425
SNP_P4_55705_33356262	NC_021163.1	Ca_kabuli_chr04	33356262	GG	TT	1946817427
SNP_P4_55706_33356410	NC_021163.1	Ca_kabuli_chr04	33356410	AA	GG	1946817429
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SNP_P4_55708_33356972	NC_021163.1	Ca_kabuli_chr04	33356972	CC	TT	1946817433
SNP_P4_55709_33357057	NC_021163.1	Ca_kabuli_chr04	33357057	AA	GG	1946817435
SNP_P4_55710_33357117	NC_021163.1	Ca_kabuli_chr04	33357117	TT	CC	1946817437
SNP_P4_55711_33357125	NC_021163.1	Ca_kabuli_chr04	33357125	TT	AA	1946817439
SNP_P4_55712_33357147	NC_021163.1	Ca_kabuli_chr04	33357147	GG	AA	1946817441
SNP_P4_55713_33357771	NC_021163.1	Ca_kabuli_chr04	33357771	TT	GG	1946817443
SNP_P4_55714_33358170	NC_021163.1	Ca_kabuli_chr04	33358170	GG	AA	1946817445
SNP_P4_55715_33358460	NC_021163.1	Ca_kabuli_chr04	33358460	CC	GG	1946817447
SNP_P4_55716_33358467	NC_021163.1	Ca_kabuli_chr04	33358467	CC	AA	1946817449
SNP_P4_55717_33359621	NC_021163.1	Ca_kabuli_chr04	33359621	CC	TT	1946817451
SNP_P4_55718_33359687	NC_021163.1	Ca_kabuli_chr04	33359687	TT	GG	1946817453
SNP_P4_55719_33361120	NC_021163.1	Ca_kabuli_chr04	33361120	CC	TT	1946817455
SNP_P4_55720_33362869	NC_021163.1	Ca_kabuli_chr04	33362869	CC	TT	1946817457

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_55722_33373736	NC_021163.1	Ca_kabuli_chr04	33373736	CC	TT	1946817459
SNP_P4_55723_33373780	NC_021163.1	Ca_kabuli_chr04	33373780	CC	TT	1946817461
SNP_P4_55724_33373784	NC_021163.1	Ca_kabuli_chr04	33373784	AA	GG	1946817463
SNP_P4_55725_33373806	NC_021163.1	Ca_kabuli_chr04	33373806	GG	AA	1946817465
SNP_P4_55726_33375316	NC_021163.1	Ca_kabuli_chr04	33375316	CC	TT	1946817467
SNP_P4_55727_33377264	NC_021163.1	Ca_kabuli_chr04	33377264	CC	TT	1946817469
SNP_P4_55728_33377314	NC_021163.1	Ca_kabuli_chr04	33377314	TT	GG	1946817471
SNP_P4_55729_33377530	NC_021163.1	Ca_kabuli_chr04	33377530	CC	TT	1946817473
SNP_P4_55730_33377567	NC_021163.1	Ca_kabuli_chr04	33377567	CC	TT	1946817475
SNP_P4_55731_33386529	NC_021163.1	Ca_kabuli_chr04	33386529	TT	CC	1946817477
SNP_P4_55733_33387019	NC_021163.1	Ca_kabuli_chr04	33387019	CC	TT	1946817479
SNP_P4_55734_33388786	NC_021163.1	Ca_kabuli_chr04	33388786	AA	TT	1946817481
SNP_P4_55735_33389960	NC_021163.1	Ca_kabuli_chr04	33389960	GG	AA	1946817483
SNP_P4_55736_33390862	NC_021163.1	Ca_kabuli_chr04	33390862	AA	GG	1946817485
SNP_P4_55737_33391837	NC_021163.1	Ca_kabuli_chr04	33391837	GG	AA	1946817487
SNP_P4_55738_33391867	NC_021163.1	Ca_kabuli_chr04	33391867	AA	TT	1946817489
SNP_P4_55739_33391868	NC_021163.1	Ca_kabuli_chr04	33391868	TT	AA	1946817491
SNP_P4_55740_33392091	NC_021163.1	Ca_kabuli_chr04	33392091	TT	AA	1946817493
SNP_P4_55741_33392207	NC_021163.1	Ca_kabuli_chr04	33392207	GG	CC	1946817495
SNP_P4_55742_33392294	NC_021163.1	Ca_kabuli_chr04	33392294	TT	CC	1946817498
SNP_P4_55744_33392367	NC_021163.1	Ca_kabuli_chr04	33392367	TT	CC	1946817500
SNP_P4_55745_33394920	NC_021163.1	Ca_kabuli_chr04	33394920	CC	TT	1946817502
SNP_P4_55746_33394926	NC_021163.1	Ca_kabuli_chr04	33394926	TT	CC	1946817504
SNP_P4_55747_33396245	NC_021163.1	Ca_kabuli_chr04	33396245	AA	TT	1946817506
SNP_P4_55748_33396297	NC_021163.1	Ca_kabuli_chr04	33396297	GG	TT	1946817508
SNP_P4_55750_33401199	NC_021163.1	Ca_kabuli_chr04	33401199	CC	TT	1946817510
SNP_P4_55752_33410034	NC_021163.1	Ca_kabuli_chr04	33410034	TT	GG	1946817512
SNP_P4_55753_33411491	NC_021163.1	Ca_kabuli_chr04	33411491	AA	GG	1946817514
SNP_P4_55755_33413639	NC_021163.1	Ca_kabuli_chr04	33413639	AA	CC	1946817516
SNP_P4_55756_33413645	NC_021163.1	Ca_kabuli_chr04	33413645	TT	GG	1946817518
SNP_P4_55757_33414128	NC_021163.1	Ca_kabuli_chr04	33414128	CC	TT	1946817520
SNP_P4_55758_33416814	NC_021163.1	Ca_kabuli_chr04	33416814	CC	GG	1946817523
SNP_P4_55759_33416922	NC_021163.1	Ca_kabuli_chr04	33416922	AA	CC	1946817525
SNP_P4_55760_33417207	NC_021163.1	Ca_kabuli_chr04	33417207	AA	GG	1946817527
SNP_P4_55761_33417621	NC_021163.1	Ca_kabuli_chr04	33417621	GG	TT	1946817529
SNP_P4_55762_33419450	NC_021163.1	Ca_kabuli_chr04	33419450	TT	CC	1946817531
SNP_P4_55763_33426363	NC_021163.1	Ca_kabuli_chr04	33426363	AA	CC	1946817533
SNP_P4_55765_33434567	NC_021163.1	Ca_kabuli_chr04	33434567	AA	GG	1946817535
SNP_P4_55766_33435714	NC_021163.1	Ca_kabuli_chr04	33435714	AA	GG	1946817537
SNP_P4_55767_33444070	NC_021163.1	Ca_kabuli_chr04	33444070	AA	GG	1946817539
SNP_P4_55768_33444524	NC_021163.1	Ca_kabuli_chr04	33444524	GG	CC	1946817541
SNP_P4_55769_33454032	NC_021163.1	Ca_kabuli_chr04	33454032	GG	AA	1946817543

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_55771_33468169	NC_021163.1	Ca_kabuli_chr04	33468169	TT	CC	1946817545
SNP_P4_55772_33469132	NC_021163.1	Ca_kabuli_chr04	33469132	AA	GG	1946817547
SNP_P4_55773_33469352	NC_021163.1	Ca_kabuli_chr04	33469352	TT	CC	1946817549
SNP_P4_55774_33483926	NC_021163.1	Ca_kabuli_chr04	33483926	TT	CC	1946817551
SNP_P4_55776_33494414	NC_021163.1	Ca_kabuli_chr04	33494414	AA	GG	1946817553
SNP_P4_55777_33495286	NC_021163.1	Ca_kabuli_chr04	33495286	TT	AA	1946817555
SNP_P4_55778_33495621	NC_021163.1	Ca_kabuli_chr04	33495621	AA	GG	1946817557
SNP_P4_55779_33495753	NC_021163.1	Ca_kabuli_chr04	33495753	TT	AA	1946817559
SNP_P4_55780_33496241	NC_021163.1	Ca_kabuli_chr04	33496241	AA	GG	1946817561
SNP_P4_55781_33497460	NC_021163.1	Ca_kabuli_chr04	33497460	AA	TT	1946817563
SNP_P4_55783_33500490	NC_021163.1	Ca_kabuli_chr04	33500490	CC	AA	1946817565
SNP_P4_55785_33503710	NC_021163.1	Ca_kabuli_chr04	33503710	AA	TT	1946817567
SNP_P4_55786_33508800	NC_021163.1	Ca_kabuli_chr04	33508800	GG	AA	1946817569
SNP_P4_55787_33509373	NC_021163.1	Ca_kabuli_chr04	33509373	CC	TT	1946817571
SNP_P4_55788_33509434	NC_021163.1	Ca_kabuli_chr04	33509434	GG	TT	1946817573
SNP_P4_55789_33513271	NC_021163.1	Ca_kabuli_chr04	33513271	TT	CC	1946817576
SNP_P4_55790_33513281	NC_021163.1	Ca_kabuli_chr04	33513281	CC	AA	1946817578
SNP_P4_55791_33516045	NC_021163.1	Ca_kabuli_chr04	33516045	AA	GG	1946817580
SNP_P4_55792_33516654	NC_021163.1	Ca_kabuli_chr04	33516654	GG	AA	1946817582
SNP_P4_55793_33520303	NC_021163.1	Ca_kabuli_chr04	33520303	TT	GG	1946817584
SNP_P4_55794_33529670	NC_021163.1	Ca_kabuli_chr04	33529670	GG	AA	1946817586
SNP_P4_55795_33533586	NC_021163.1	Ca_kabuli_chr04	33533586	CC	AA	1946817588
SNP_P4_55796_33538357	NC_021163.1	Ca_kabuli_chr04	33538357	AA	CC	1946817590
SNP_P4_55797_33541800	NC_021163.1	Ca_kabuli_chr04	33541800	CC	AA	1946817592
SNP_P4_55798_33543072	NC_021163.1	Ca_kabuli_chr04	33543072	TT	GG	1946817594
SNP_P4_55799_33546798	NC_021163.1	Ca_kabuli_chr04	33546798	TT	GG	1946817596
SNP_P4_55800_33553524	NC_021163.1	Ca_kabuli_chr04	33553524	CC	AA	1946817599
SNP_P4_55801_33553655	NC_021163.1	Ca_kabuli_chr04	33553655	CC	TT	1946817601
SNP_P4_55802_33554568	NC_021163.1	Ca_kabuli_chr04	33554568	TT	CC	1946817603
SNP_P4_55804_33555136	NC_021163.1	Ca_kabuli_chr04	33555136	GG	AA	1946817605
SNP_P4_55805_33558453	NC_021163.1	Ca_kabuli_chr04	33558453	CC	TT	1946817607
SNP_P4_55806_33561198	NC_021163.1	Ca_kabuli_chr04	33561198	GG	TT	1946817609
SNP_P4_55807_33561516	NC_021163.1	Ca_kabuli_chr04	33561516	TT	AA	1946817611
SNP_P4_55808_33562764	NC_021163.1	Ca_kabuli_chr04	33562764	TT	GG	1946817613
SNP_P4_55809_33562789	NC_021163.1	Ca_kabuli_chr04	33562789	TT	CC	1946817615
SNP_P4_55810_33562813	NC_021163.1	Ca_kabuli_chr04	33562813	GG	AA	1946817618
SNP_P4_55811_33562834	NC_021163.1	Ca_kabuli_chr04	33562834	TT	GG	1946817620
SNP_P4_55812_33565776	NC_021163.1	Ca_kabuli_chr04	33565776	GG	TT	1946817622
SNP_P4_55814_33567812	NC_021163.1	Ca_kabuli_chr04	33567812	TT	CC	1946817624
SNP_P4_55815_33570222	NC_021163.1	Ca_kabuli_chr04	33570222	TT	AA	1946817626
SNP_P4_55816_33570374	NC_021163.1	Ca_kabuli_chr04	33570374	TT	CC	1946817628
SNP_P4_55817_33570375	NC_021163.1	Ca_kabuli_chr04	33570375	TT	CC	1946817630

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_55818_33570393	NC_021163.1	Ca_kabuli_chr04	33570393	TT	CC	1946817632
SNP_P4_55819_33570515	NC_021163.1	Ca_kabuli_chr04	33570515	CC	GG	1946817634
SNP_P4_55820_33570574	NC_021163.1	Ca_kabuli_chr04	33570574	TT	AA	1946817636
SNP_P4_55821_33570654	NC_021163.1	Ca_kabuli_chr04	33570654	TT	CC	1946817638
SNP_P4_55822_33570888	NC_021163.1	Ca_kabuli_chr04	33570888	GG	AA	1946817640
SNP_P4_55823_33570951	NC_021163.1	Ca_kabuli_chr04	33570951	GG	AA	1946817642
SNP_P4_55824_33572761	NC_021163.1	Ca_kabuli_chr04	33572761	AA	GG	1946817644
SNP_P4_55825_33585700	NC_021163.1	Ca_kabuli_chr04	33585700	GG	AA	1946817646
SNP_P4_55826_33587285	NC_021163.1	Ca_kabuli_chr04	33587285	AA	GG	1946817648
SNP_P4_55827_33599746	NC_021163.1	Ca_kabuli_chr04	33599746	AA	GG	1946817650
SNP_P4_55828_33600915	NC_021163.1	Ca_kabuli_chr04	33600915	GG	AA	1946817652
SNP_P4_55829_33602550	NC_021163.1	Ca_kabuli_chr04	33602550	GG	CC	1946817654
SNP_P4_55830_33607352	NC_021163.1	Ca_kabuli_chr04	33607352	AA	GG	1946817656
SNP_P4_55831_33611915	NC_021163.1	Ca_kabuli_chr04	33611915	CC	AA	1946817658
SNP_P4_55832_33612523	NC_021163.1	Ca_kabuli_chr04	33612523	GG	TT	1946817660
SNP_P4_55833_33613316	NC_021163.1	Ca_kabuli_chr04	33613316	CC	TT	1946817662
SNP_P4_55834_33614767	NC_021163.1	Ca_kabuli_chr04	33614767	CC	AA	1946817664
SNP_P4_55835_33614768	NC_021163.1	Ca_kabuli_chr04	33614768	TT	AA	1946817666
SNP_P4_55836_33614769	NC_021163.1	Ca_kabuli_chr04	33614769	TT	AA	1946817668
SNP_P4_55837_33614853	NC_021163.1	Ca_kabuli_chr04	33614853	TT	AA	1946817670
SNP_P4_55838_33615115	NC_021163.1	Ca_kabuli_chr04	33615115	GG	TT	1946817672
SNP_P4_55839_33615195	NC_021163.1	Ca_kabuli_chr04	33615195	CC	TT	1946817674
SNP_P4_55840_33615454	NC_021163.1	Ca_kabuli_chr04	33615454	TT	CC	1946817676
SNP_P4_55842_33615503	NC_021163.1	Ca_kabuli_chr04	33615503	AA	GG	1946817678
SNP_P4_55843_33615709	NC_021163.1	Ca_kabuli_chr04	33615709	TT	AA	1946817680
SNP_P4_55844_33615795	NC_021163.1	Ca_kabuli_chr04	33615795	AA	GG	1946817682
SNP_P4_55845_33615837	NC_021163.1	Ca_kabuli_chr04	33615837	CC	TT	1946817685
SNP_P4_55846_33616030	NC_021163.1	Ca_kabuli_chr04	33616030	CC	TT	1946817687
SNP_P4_55847_33616062	NC_021163.1	Ca_kabuli_chr04	33616062	CC	TT	1946817689
SNP_P4_55848_33616081	NC_021163.1	Ca_kabuli_chr04	33616081	AA	TT	1946817691
SNP_P4_55849_33616090	NC_021163.1	Ca_kabuli_chr04	33616090	CC	AA	1946817693
SNP_P4_55850_33616162	NC_021163.1	Ca_kabuli_chr04	33616162	TT	CC	1946817695
SNP_P4_55851_33616165	NC_021163.1	Ca_kabuli_chr04	33616165	AA	TT	1946817697
SNP_P4_55852_33616178	NC_021163.1	Ca_kabuli_chr04	33616178	CC	TT	1946817699
SNP_P4_55853_33616370	NC_021163.1	Ca_kabuli_chr04	33616370	GG	AA	1946817701
SNP_P4_55854_33616432	NC_021163.1	Ca_kabuli_chr04	33616432	CC	AA	1946817703
SNP_P4_55855_33616550	NC_021163.1	Ca_kabuli_chr04	33616550	AA	GG	1946817705
SNP_P4_55856_33616657	NC_021163.1	Ca_kabuli_chr04	33616657	AA	GG	1946817707
SNP_P4_55857_33616676	NC_021163.1	Ca_kabuli_chr04	33616676	AA	GG	1946817709
SNP_P4_55858_33616734	NC_021163.1	Ca_kabuli_chr04	33616734	AA	GG	1946817711
SNP_P4_55859_33616999	NC_021163.1	Ca_kabuli_chr04	33616999	CC	TT	1946817713
SNP_P4_55860_33617101	NC_021163.1	Ca_kabuli_chr04	33617101	TT	CC	1946817715

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_55861_33617244	NC_021163.1	Ca_kabuli_chr04	33617244	TT	AA	1946817717
SNP_P4_55862_33617274	NC_021163.1	Ca_kabuli_chr04	33617274	TT	CC	1946817719
SNP_P4_55864_33617664	NC_021163.1	Ca_kabuli_chr04	33617664	AA	GG	1946817721
SNP_P4_55865_33617720	NC_021163.1	Ca_kabuli_chr04	33617720	GG	AA	1946817723
SNP_P4_55867_33617818	NC_021163.1	Ca_kabuli_chr04	33617818	CC	TT	1946817725
SNP_P4_55868_33617847	NC_021163.1	Ca_kabuli_chr04	33617847	AA	GG	1946817727
SNP_P4_55869_33618689	NC_021163.1	Ca_kabuli_chr04	33618689	CC	TT	1946817729
SNP_P4_55870_33618888	NC_021163.1	Ca_kabuli_chr04	33618888	TT	CC	1946817731
SNP_P4_55871_33619084	NC_021163.1	Ca_kabuli_chr04	33619084	AA	GG	1946817733
SNP_P4_55872_33619100	NC_021163.1	Ca_kabuli_chr04	33619100	TT	AA	1946817735
SNP_P4_55873_33619106	NC_021163.1	Ca_kabuli_chr04	33619106	CC	AA	1946817737
SNP_P4_55875_33619267	NC_021163.1	Ca_kabuli_chr04	33619267	TT	GG	1946817739
SNP_P4_55877_33619709	NC_021163.1	Ca_kabuli_chr04	33619709	GG	CC	1946817741
SNP_P4_55878_33620078	NC_021163.1	Ca_kabuli_chr04	33620078	CC	AA	1946817743
SNP_P4_55879_33620129	NC_021163.1	Ca_kabuli_chr04	33620129	GG	TT	1946817745
SNP_P4_55880_33620406	NC_021163.1	Ca_kabuli_chr04	33620406	GG	AA	1946817747
SNP_P4_55881_33620432	NC_021163.1	Ca_kabuli_chr04	33620432	TT	AA	1946817750
SNP_P4_55882_33620543	NC_021163.1	Ca_kabuli_chr04	33620543	CC	TT	1946817752
SNP_P4_55883_33620552	NC_021163.1	Ca_kabuli_chr04	33620552	TT	CC	1946817754
SNP_P4_55884_33620567	NC_021163.1	Ca_kabuli_chr04	33620567	TT	CC	1946817756
SNP_P4_55885_33620607	NC_021163.1	Ca_kabuli_chr04	33620607	CC	TT	1946817758
SNP_P4_55886_33620611	NC_021163.1	Ca_kabuli_chr04	33620611	GG	AA	1946817760
SNP_P4_55887_33620619	NC_021163.1	Ca_kabuli_chr04	33620619	AA	GG	1946817762
SNP_P4_55888_33620670	NC_021163.1	Ca_kabuli_chr04	33620670	TT	CC	1946817764
SNP_P4_55889_33620740	NC_021163.1	Ca_kabuli_chr04	33620740	TT	CC	1946817766
SNP_P4_55890_33620761	NC_021163.1	Ca_kabuli_chr04	33620761	GG	AA	1946817768
SNP_P4_55891_33620764	NC_021163.1	Ca_kabuli_chr04	33620764	GG	AA	1946817770
SNP_P4_55892_33620778	NC_021163.1	Ca_kabuli_chr04	33620778	CC	TT	1946817772
SNP_P4_55893_33620781	NC_021163.1	Ca_kabuli_chr04	33620781	AA	CC	1946817774
SNP_P4_55894_33620782	NC_021163.1	Ca_kabuli_chr04	33620782	TT	CC	1946817776
SNP_P4_55895_33620786	NC_021163.1	Ca_kabuli_chr04	33620786	GG	AA	1946817779
SNP_P4_55896_33620787	NC_021163.1	Ca_kabuli_chr04	33620787	AA	TT	1946817781
SNP_P4_55897_33620823	NC_021163.1	Ca_kabuli_chr04	33620823	TT	CC	1946817783
SNP_P4_55898_33620843	NC_021163.1	Ca_kabuli_chr04	33620843	CC	TT	1946817785
SNP_P4_55899_33620861	NC_021163.1	Ca_kabuli_chr04	33620861	TT	CC	1946817787
SNP_P4_55900_33620867	NC_021163.1	Ca_kabuli_chr04	33620867	TT	CC	1946817789
SNP_P4_55901_33620876	NC_021163.1	Ca_kabuli_chr04	33620876	GG	CC	1946817791
SNP_P4_55902_33620880	NC_021163.1	Ca_kabuli_chr04	33620880	AA	GG	1946817793
SNP_P4_55903_33620908	NC_021163.1	Ca_kabuli_chr04	33620908	AA	GG	1946817795
SNP_P4_55904_33620984	NC_021163.1	Ca_kabuli_chr04	33620984	TT	CC	1946817797
SNP_P4_55905_33621317	NC_021163.1	Ca_kabuli_chr04	33621317	GG	TT	1946817800
SNP_P4_55906_33621320	NC_021163.1	Ca_kabuli_chr04	33621320	GG	AA	1946817802

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_55908_33621681	NC_021163.1	Ca_kabuli_chr04	33621681	CC	TT	1946817806
SNP_P4_55909_33621773	NC_021163.1	Ca_kabuli_chr04	33621773	AA	TT	1946817808
SNP_P4_55910_33625770	NC_021163.1	Ca_kabuli_chr04	33625770	GG	TT	1946817810
SNP_P4_55911_33625787	NC_021163.1	Ca_kabuli_chr04	33625787	CC	TT	1946817812
SNP_P4_55912_33625840	NC_021163.1	Ca_kabuli_chr04	33625840	TT	CC	1946817815
SNP_P4_55913_33625860	NC_021163.1	Ca_kabuli_chr04	33625860	CC	TT	1946817817
SNP_P4_55914_33626146	NC_021163.1	Ca_kabuli_chr04	33626146	CC	GG	1946817819
SNP_P4_55915_33626163	NC_021163.1	Ca_kabuli_chr04	33626163	CC	GG	1946817821
SNP_P4_55916_33626165	NC_021163.1	Ca_kabuli_chr04	33626165	CC	TT	1946817823
SNP_P4_55917_33626194	NC_021163.1	Ca_kabuli_chr04	33626194	AA	TT	1946817825
SNP_P4_55918_33626245	NC_021163.1	Ca_kabuli_chr04	33626245	AA	GG	1946817827
SNP_P4_55919_33626250	NC_021163.1	Ca_kabuli_chr04	33626250	CC	TT	1946817829
SNP_P4_55920_33626279	NC_021163.1	Ca_kabuli_chr04	33626279	CC	TT	1946817831
SNP_P4_55921_33626283	NC_021163.1	Ca_kabuli_chr04	33626283	AA	CC	1946817833
SNP_P4_55922_33626286	NC_021163.1	Ca_kabuli_chr04	33626286	AA	CC	1946817835
SNP_P4_55923_33626305	NC_021163.1	Ca_kabuli_chr04	33626305	CC	TT	1946817837
SNP_P4_55924_33626311	NC_021163.1	Ca_kabuli_chr04	33626311	TT	CC	1946817840
SNP_P4_55925_33626384	NC_021163.1	Ca_kabuli_chr04	33626384	CC	TT	1946817842
SNP_P4_55926_33627054	NC_021163.1	Ca_kabuli_chr04	33627054	TT	AA	1946817844
SNP_P4_55927_33627088	NC_021163.1	Ca_kabuli_chr04	33627088	AA	GG	1946817846
SNP_P4_55928_33627131	NC_021163.1	Ca_kabuli_chr04	33627131	GG	AA	1946817848
SNP_P4_55929_33627147	NC_021163.1	Ca_kabuli_chr04	33627147	GG	AA	1946817850
SNP_P4_55931_33627707	NC_021163.1	Ca_kabuli_chr04	33627707	AA	GG	1946817852
SNP_P4_55932_33627871	NC_021163.1	Ca_kabuli_chr04	33627871	TT	CC	1946817854
SNP_P4_55933_33628693	NC_021163.1	Ca_kabuli_chr04	33628693	AA	TT	1946817856
SNP_P4_55934_33629872	NC_021163.1	Ca_kabuli_chr04	33629872	TT	CC	1946817858
SNP_P4_55935_33629887	NC_021163.1	Ca_kabuli_chr04	33629887	GG	AA	1946817860
SNP_P4_55936_33629896	NC_021163.1	Ca_kabuli_chr04	33629896	CC	TT	1946817862
SNP_P4_55937_33629904	NC_021163.1	Ca_kabuli_chr04	33629904	AA	GG	1946817864
SNP_P4_55938_33629912	NC_021163.1	Ca_kabuli_chr04	33629912	GG	AA	1946817866
SNP_P4_55939_33629914	NC_021163.1	Ca_kabuli_chr04	33629914	AA	GG	1946817868
SNP_P4_55941_33629980	NC_021163.1	Ca_kabuli_chr04	33629980	TT	CC	1946817870
SNP_P4_55942_33629992	NC_021163.1	Ca_kabuli_chr04	33629992	TT	CC	1946817872
SNP_P4_55943_33629995	NC_021163.1	Ca_kabuli_chr04	33629995	AA	CC	1946817874
SNP_P4_55944_33630007	NC_021163.1	Ca_kabuli_chr04	33630007	GG	AA	1946817876
SNP_P4_55945_33630014	NC_021163.1	Ca_kabuli_chr04	33630014	TT	CC	1946817878
SNP_P4_55946_33630025	NC_021163.1	Ca_kabuli_chr04	33630025	AA	TT	1946817880
SNP_P4_55947_33630027	NC_021163.1	Ca_kabuli_chr04	33630027	CC	GG	1946817882
SNP_P4_55948_33630038	NC_021163.1	Ca_kabuli_chr04	33630038	GG	CC	1946817884
SNP_P4_55949_33630039	NC_021163.1	Ca_kabuli_chr04	33630039	GG	AA	1946817886
SNP_P4_55950_33630078	NC_021163.1	Ca_kabuli_chr04	33630078	CC	TT	1946817888

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_55952_33630081	NC_021163.1	Ca_kabuli_chr04	33630081	AA	GG	1946817892
SNP_P4_55953_33630090	NC_021163.1	Ca_kabuli_chr04	33630090	TT	CC	1946817894
SNP_P4_55955_33634988	NC_021163.1	Ca_kabuli_chr04	33634988	AA	TT	1946817896
SNP_P4_55956_33651114	NC_021163.1	Ca_kabuli_chr04	33651114	AA	GG	1946817898
SNP_P4_55957_33655275	NC_021163.1	Ca_kabuli_chr04	33655275	AA	GG	1946817900
SNP_P4_55958_33664422	NC_021163.1	Ca_kabuli_chr04	33664422	TT	CC	1946817902
SNP_P4_55959_33669024	NC_021163.1	Ca_kabuli_chr04	33669024	GG	AA	1946817904
SNP_P4_55960_33670441	NC_021163.1	Ca_kabuli_chr04	33670441	TT	GG	1946817907
SNP_P4_55961_33675061	NC_021163.1	Ca_kabuli_chr04	33675061	CC	AA	1946817909
SNP_P4_55962_33675509	NC_021163.1	Ca_kabuli_chr04	33675509	AA	GG	1946817911
SNP_P4_55963_33693960	NC_021163.1	Ca_kabuli_chr04	33693960	GG	AA	1946817913
SNP_P4_55965_33702642	NC_021163.1	Ca_kabuli_chr04	33702642	GG	AA	1946817915
SNP_P4_55966_33702649	NC_021163.1	Ca_kabuli_chr04	33702649	CC	TT	1946817917
SNP_P4_55967_33712394	NC_021163.1	Ca_kabuli_chr04	33712394	AA	GG	1946817919
SNP_P4_55968_33713233	NC_021163.1	Ca_kabuli_chr04	33713233	TT	CC	1946817921
SNP_P4_55969_33713245	NC_021163.1	Ca_kabuli_chr04	33713245	CC	TT	1946817923
SNP_P4_55970_33713866	NC_021163.1	Ca_kabuli_chr04	33713866	TT	CC	1946817925
SNP_P4_55971_33713955	NC_021163.1	Ca_kabuli_chr04	33713955	CC	AA	1946817927
SNP_P4_55972_33714031	NC_021163.1	Ca_kabuli_chr04	33714031	GG	AA	1946817929
SNP_P4_55973_33714074	NC_021163.1	Ca_kabuli_chr04	33714074	TT	AA	1946817931
SNP_P4_55976_33714593	NC_021163.1	Ca_kabuli_chr04	33714593	GG	TT	1946817933
SNP_P4_55977_33714737	NC_021163.1	Ca_kabuli_chr04	33714737	AA	GG	1946817935
SNP_P4_55978_33715120	NC_021163.1	Ca_kabuli_chr04	33715120	GG	AA	1946817937
SNP_P4_55979_33715134	NC_021163.1	Ca_kabuli_chr04	33715134	CC	TT	1946817939
SNP_P4_55980_33715138	NC_021163.1	Ca_kabuli_chr04	33715138	GG	AA	1946817942
SNP_P4_55981_33715217	NC_021163.1	Ca_kabuli_chr04	33715217	AA	GG	1946817944
SNP_P4_55983_33715962	NC_021163.1	Ca_kabuli_chr04	33715962	CC	GG	1946817946
SNP_P4_55984_33716339	NC_021163.1	Ca_kabuli_chr04	33716339	AA	TT	1946817948
SNP_P4_55985_33716607	NC_021163.1	Ca_kabuli_chr04	33716607	GG	AA	1946817950
SNP_P4_55986_33717044	NC_021163.1	Ca_kabuli_chr04	33717044	GG	AA	1946817952
SNP_P4_55987_33717195	NC_021163.1	Ca_kabuli_chr04	33717195	AA	CC	1946817954
SNP_P4_55988_33717350	NC_021163.1	Ca_kabuli_chr04	33717350	TT	CC	1946817956
SNP_P4_55989_33717427	NC_021163.1	Ca_kabuli_chr04	33717427	AA	GG	1946817958
SNP_P4_55990_33717748	NC_021163.1	Ca_kabuli_chr04	33717748	GG	AA	1946817960
SNP_P4_55991_33717802	NC_021163.1	Ca_kabuli_chr04	33717802	TT	AA	1946817963
SNP_P4_55993_33717957	NC_021163.1	Ca_kabuli_chr04	33717957	AA	CC	1946817965
SNP_P4_55994_33717964	NC_021163.1	Ca_kabuli_chr04	33717964	GG	TT	1946817967
SNP_P4_55995_33718341	NC_021163.1	Ca_kabuli_chr04	33718341	TT	CC	1946817969
SNP_P4_55996_33718355	NC_021163.1	Ca_kabuli_chr04	33718355	TT	GG	1946817971
SNP_P4_55997_33718511	NC_021163.1	Ca_kabuli_chr04	33718511	CC	TT	1946817973
SNP_P4_55998_33719215	NC_021163.1	Ca_kabuli_chr04	33719215	TT	CC	1946817975

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_56000_33719502	NC_021163.1	Ca_kabuli_chr04	33719502	AA	GG	1946817979
SNP_P4_56001_33719553	NC_021163.1	Ca_kabuli_chr04	33719553	CC	GG	1946817981
SNP_P4_56002_33719576	NC_021163.1	Ca_kabuli_chr04	33719576	TT	AA	1946817983
SNP_P4_56003_33719687	NC_021163.1	Ca_kabuli_chr04	33719687	AA	GG	1946817985
SNP_P4_56004_33720042	NC_021163.1	Ca_kabuli_chr04	33720042	CC	TT	1946817987
SNP_P4_56005_33720303	NC_021163.1	Ca_kabuli_chr04	33720303	CC	AA	1946817989
SNP_P4_56006_33720513	NC_021163.1	Ca_kabuli_chr04	33720513	AA	CC	1946817991
SNP_P4_56007_33720742	NC_021163.1	Ca_kabuli_chr04	33720742	AA	CC	1946817993
SNP_P4_56008_33721019	NC_021163.1	Ca_kabuli_chr04	33721019	TT	AA	1946817995
SNP_P4_56009_33721137	NC_021163.1	Ca_kabuli_chr04	33721137	GG	TT	1946817997
SNP_P4_56010_33721142	NC_021163.1	Ca_kabuli_chr04	33721142	AA	CC	1946817999
SNP_P4_56011_33721236	NC_021163.1	Ca_kabuli_chr04	33721236	CC	AA	1946818001
SNP_P4_56012_33721381	NC_021163.1	Ca_kabuli_chr04	33721381	AA	TT	1946818003
SNP_P4_56013_33721404	NC_021163.1	Ca_kabuli_chr04	33721404	TT	AA	1946818006
SNP_P4_56014_33721410	NC_021163.1	Ca_kabuli_chr04	33721410	AA	GG	1946818008
SNP_P4_56015_33721483	NC_021163.1	Ca_kabuli_chr04	33721483	GG	AA	1946818010
SNP_P4_56016_33721536	NC_021163.1	Ca_kabuli_chr04	33721536	CC	TT	1946818012
SNP_P4_56017_33721846	NC_021163.1	Ca_kabuli_chr04	33721846	GG	AA	1946818014
SNP_P4_56018_33721975	NC_021163.1	Ca_kabuli_chr04	33721975	GG	AA	1946818016
SNP_P4_56019_33721990	NC_021163.1	Ca_kabuli_chr04	33721990	TT	CC	1946818018
SNP_P4_56020_33722064	NC_021163.1	Ca_kabuli_chr04	33722064	TT	CC	1946818020
SNP_P4_56021_33722159	NC_021163.1	Ca_kabuli_chr04	33722159	GG	CC	1946818022
SNP_P4_56022_33732799	NC_021163.1	Ca_kabuli_chr04	33732799	GG	AA	1946818024
SNP_P4_56023_33732979	NC_021163.1	Ca_kabuli_chr04	33732979	AA	CC	1946818026
SNP_P4_56024_33733178	NC_021163.1	Ca_kabuli_chr04	33733178	GG	AA	1946818028
SNP_P4_56026_33739176	NC_021163.1	Ca_kabuli_chr04	33739176	AA	GG	1946818030
SNP_P4_56027_33739190	NC_021163.1	Ca_kabuli_chr04	33739190	TT	AA	1946818032
SNP_P4_56029_33741404	NC_021163.1	Ca_kabuli_chr04	33741404	CC	TT	1946818034
SNP_P4_56030_33742031	NC_021163.1	Ca_kabuli_chr04	33742031	CC	AA	1946818036
SNP_P4_56031_33742318	NC_021163.1	Ca_kabuli_chr04	33742318	AA	CC	1946818038
SNP_P4_56032_33742332	NC_021163.1	Ca_kabuli_chr04	33742332	CC	TT	1946818040
SNP_P4_56033_33743686	NC_021163.1	Ca_kabuli_chr04	33743686	AA	GG	1946818042
SNP_P4_56035_33746897	NC_021163.1	Ca_kabuli_chr04	33746897	CC	TT	1946818044
SNP_P4_56036_33747360	NC_021163.1	Ca_kabuli_chr04	33747360	CC	TT	1946818046
SNP_P4_56037_33750122	NC_021163.1	Ca_kabuli_chr04	33750122	AA	GG	1946818048
SNP_P4_56038_33750704	NC_021163.1	Ca_kabuli_chr04	33750704	GG	AA	1946818049
SNP_P4_56039_33751114	NC_021163.1	Ca_kabuli_chr04	33751114	AA	GG	1946818051
SNP_P4_56040_33752350	NC_021163.1	Ca_kabuli_chr04	33752350	TT	AA	1946818053
SNP_P4_56041_33752657	NC_021163.1	Ca_kabuli_chr04	33752657	GG	AA	1946818055
SNP_P4_56042_33753652	NC_021163.1	Ca_kabuli_chr04	33753652	GG	CC	1946818057
SNP_P4_56043_33755607	NC_021163.1	Ca_kabuli_chr04	33755607	TT	GG	1946818059

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_56045_33757761	NC_021163.1	Ca_kabuli_chr04	33757761	GG	AA	1946818063
SNP_P4_56046_33758053	NC_021163.1	Ca_kabuli_chr04	33758053	TT	GG	1946818065
SNP_P4_56047_33762630	NC_021163.1	Ca_kabuli_chr04	33762630	GG	AA	1946818067
SNP_P4_56048_33763297	NC_021163.1	Ca_kabuli_chr04	33763297	GG	AA	1946818069
SNP_P4_56049_33763529	NC_021163.1	Ca_kabuli_chr04	33763529	GG	AA	1946818071
SNP_P4_56050_33768136	NC_021163.1	Ca_kabuli_chr04	33768136	GG	AA	1946818073
SNP_P4_56051_33768834	NC_021163.1	Ca_kabuli_chr04	33768834	AA	TT	1946818075
SNP_P4_56052_33772093	NC_021163.1	Ca_kabuli_chr04	33772093	TT	CC	1946818076
SNP_P4_56053_33772884	NC_021163.1	Ca_kabuli_chr04	33772884	TT	CC	1946818077
SNP_P4_56054_33773421	NC_021163.1	Ca_kabuli_chr04	33773421	GG	TT	1946818078
SNP_P4_56055_33773427	NC_021163.1	Ca_kabuli_chr04	33773427	AA	GG	1946818079
SNP_P4_56057_33773447	NC_021163.1	Ca_kabuli_chr04	33773447	CC	TT	1946818080
SNP_P4_56058_33773853	NC_021163.1	Ca_kabuli_chr04	33773853	AA	GG	1946818081
SNP_P4_56059_33773927	NC_021163.1	Ca_kabuli_chr04	33773927	CC	GG	1946818083
SNP_P4_56060_33774308	NC_021163.1	Ca_kabuli_chr04	33774308	TT	AA	1946818085
SNP_P4_56061_33776827	NC_021163.1	Ca_kabuli_chr04	33776827	CC	TT	1946818087
SNP_P4_56062_33777032	NC_021163.1	Ca_kabuli_chr04	33777032	GG	AA	1946818089
SNP_P4_56063_33777120	NC_021163.1	Ca_kabuli_chr04	33777120	TT	AA	1946818091
SNP_P4_56065_33777360	NC_021163.1	Ca_kabuli_chr04	33777360	GG	AA	1946818093
SNP_P4_56066_33779231	NC_021163.1	Ca_kabuli_chr04	33779231	CC	TT	1946818095
SNP_P4_56067_33779655	NC_021163.1	Ca_kabuli_chr04	33779655	AA	GG	1946818097
SNP_P4_56068_33781859	NC_021163.1	Ca_kabuli_chr04	33781859	GG	AA	1946818099
SNP_P4_56069_33783770	NC_021163.1	Ca_kabuli_chr04	33783770	AA	TT	1946818101
SNP_P4_56070_33786844	NC_021163.1	Ca_kabuli_chr04	33786844	CC	TT	1946818103
SNP_P4_56071_33787798	NC_021163.1	Ca_kabuli_chr04	33787798	GG	CC	1946818105
SNP_P4_56072_33787996	NC_021163.1	Ca_kabuli_chr04	33787996	GG	AA	1946818107
SNP_P4_56073_33790830	NC_021163.1	Ca_kabuli_chr04	33790830	AA	GG	1946818109
SNP_P4_56074_33793561	NC_021163.1	Ca_kabuli_chr04	33793561	CC	TT	1946818111
SNP_P4_56076_33797447	NC_021163.1	Ca_kabuli_chr04	33797447	AA	GG	1946818113
SNP_P4_56077_33797841	NC_021163.1	Ca_kabuli_chr04	33797841	GG	AA	1946818115
SNP_P4_56078_33799112	NC_021163.1	Ca_kabuli_chr04	33799112	CC	TT	1946818117
SNP_P4_56079_33799168	NC_021163.1	Ca_kabuli_chr04	33799168	TT	GG	1946818120
SNP_P4_56080_33803088	NC_021163.1	Ca_kabuli_chr04	33803088	AA	GG	1946818122
SNP_P4_56081_33803220	NC_021163.1	Ca_kabuli_chr04	33803220	AA	GG	1946818124
SNP_P4_56083_33810648	NC_021163.1	Ca_kabuli_chr04	33810648	TT	GG	1946818126
SNP_P4_56084_33810691	NC_021163.1	Ca_kabuli_chr04	33810691	AA	TT	1946818128
SNP_P4_56085_33810713	NC_021163.1	Ca_kabuli_chr04	33810713	AA	TT	1946818130
SNP_P4_56086_33810950	NC_021163.1	Ca_kabuli_chr04	33810950	GG	AA	1946818132
SNP_P4_56087_33811060	NC_021163.1	Ca_kabuli_chr04	33811060	AA	GG	1946818134
SNP_P4_56089_33817185	NC_021163.1	Ca_kabuli_chr04	33817185	AA	GG	1946818136
SNP_P4_56090_33817215	NC_021163.1	Ca_kabuli_chr04	33817215	CC	AA	1946818138

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_56092_33822204	NC_021163.1	Ca_kabuli_chr04	33822204	TT	AA	1946818142
SNP_P4_56093_33825993	NC_021163.1	Ca_kabuli_chr04	33825993	AA	GG	1946818144
SNP_P4_56094_33826072	NC_021163.1	Ca_kabuli_chr04	33826072	GG	AA	1946818146
SNP_P4_56095_33826073	NC_021163.1	Ca_kabuli_chr04	33826073	TT	GG	1946818148
SNP_P4_56096_33828705	NC_021163.1	Ca_kabuli_chr04	33828705	TT	AA	1946818150
SNP_P4_56097_33833532	NC_021163.1	Ca_kabuli_chr04	33833532	AA	TT	1946818152
SNP_P4_56100_33834197	NC_021163.1	Ca_kabuli_chr04	33834197	AA	TT	1946818154
SNP_P4_56101_33834358	NC_021163.1	Ca_kabuli_chr04	33834358	TT	CC	1946818156
SNP_P4_56102_33834510	NC_021163.1	Ca_kabuli_chr04	33834510	CC	GG	1946818158
SNP_P4_56107_33836313	NC_021163.1	Ca_kabuli_chr04	33836313	TT	GG	1946818160
SNP_P4_56109_33837672	NC_021163.1	Ca_kabuli_chr04	33837672	TT	GG	1946818162
SNP_P4_56112_33840542	NC_021163.1	Ca_kabuli_chr04	33840542	TT	CC	1946818164
SNP_P4_56113_33845014	NC_021163.1	Ca_kabuli_chr04	33845014	CC	TT	1946818166
SNP_P4_56114_33849639	NC_021163.1	Ca_kabuli_chr04	33849639	CC	TT	1946818168
SNP_P4_56115_33849651	NC_021163.1	Ca_kabuli_chr04	33849651	CC	TT	1946818170
SNP_P4_56116_33853299	NC_021163.1	Ca_kabuli_chr04	33853299	TT	CC	1946818172
SNP_P4_56117_33853391	NC_021163.1	Ca_kabuli_chr04	33853391	TT	AA	1946818175
SNP_P4_56118_33853402	NC_021163.1	Ca_kabuli_chr04	33853402	AA	TT	1946818177
SNP_P4_56119_33853438	NC_021163.1	Ca_kabuli_chr04	33853438	CC	TT	1946818179
SNP_P4_56120_33853439	NC_021163.1	Ca_kabuli_chr04	33853439	AA	GG	1946818181
SNP_P4_56121_33853523	NC_021163.1	Ca_kabuli_chr04	33853523	CC	TT	1946818183
SNP_P4_56122_33853781	NC_021163.1	Ca_kabuli_chr04	33853781	AA	GG	1946818185
SNP_P4_56123_33853816	NC_021163.1	Ca_kabuli_chr04	33853816	TT	CC	1946818187
SNP_P4_56124_33853820	NC_021163.1	Ca_kabuli_chr04	33853820	CC	TT	1946818189
SNP_P4_56125_33853821	NC_021163.1	Ca_kabuli_chr04	33853821	CC	AA	1946818191
SNP_P4_56126_33856182	NC_021163.1	Ca_kabuli_chr04	33856182	GG	AA	1946818193
SNP_P4_56128_33856623	NC_021163.1	Ca_kabuli_chr04	33856623	TT	AA	1946818195
SNP_P4_56129_33857891	NC_021163.1	Ca_kabuli_chr04	33857891	TT	GG	1946818197
SNP_P4_56130_33857934	NC_021163.1	Ca_kabuli_chr04	33857934	CC	GG	1946818199
SNP_P4_56133_33865182	NC_021163.1	Ca_kabuli_chr04	33865182	AA	CC	1946818201
SNP_P4_56135_33865726	NC_021163.1	Ca_kabuli_chr04	33865726	GG	TT	1946818203
SNP_P4_56136_33866963	NC_021163.1	Ca_kabuli_chr04	33866963	AA	TT	1946818205
SNP_P4_56137_33868236	NC_021163.1	Ca_kabuli_chr04	33868236	CC	AA	1946818207
SNP_P4_56138_33871111	NC_021163.1	Ca_kabuli_chr04	33871111	AA	GG	1946818209
SNP_P4_56139_33871350	NC_021163.1	Ca_kabuli_chr04	33871350	AA	GG	1946818211
SNP_P4_56140_33871356	NC_021163.1	Ca_kabuli_chr04	33871356	TT	CC	1946818213
SNP_P4_56141_33871358	NC_021163.1	Ca_kabuli_chr04	33871358	GG	AA	1946818215
SNP_P4_56142_33871368	NC_021163.1	Ca_kabuli_chr04	33871368	CC	TT	1946818217
SNP_P4_56143_33871451	NC_021163.1	Ca_kabuli_chr04	33871451	CC	TT	1946818219
SNP_P4_56144_33871508	NC_021163.1	Ca_kabuli_chr04	33871508	AA	TT	1946818221
SNP_P4_56145_33871509	NC_021163.1	Ca_kabuli_chr04	33871509	CC	GG	1946818223

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_56147_33871525	NC_021163.1	Ca_kabuli_chr04	33871525	CC	AA	1946818227
SNP_P4_56148_33871623	NC_021163.1	Ca_kabuli_chr04	33871623	AA	CC	1946818229
SNP_P4_56149_33871660	NC_021163.1	Ca_kabuli_chr04	33871660	GG	TT	1946818231
SNP_P4_56150_33873045	NC_021163.1	Ca_kabuli_chr04	33873045	GG	AA	1946818233
SNP_P4_56151_33873255	NC_021163.1	Ca_kabuli_chr04	33873255	CC	TT	1946818235
SNP_P4_56153_33873396	NC_021163.1	Ca_kabuli_chr04	33873396	AA	GG	1946818237
SNP_P4_56154_33875060	NC_021163.1	Ca_kabuli_chr04	33875060	AA	GG	1946818239
SNP_P4_56155_33876158	NC_021163.1	Ca_kabuli_chr04	33876158	GG	TT	1946818241
SNP_P4_56157_33879869	NC_021163.1	Ca_kabuli_chr04	33879869	GG	AA	1946818243
SNP_P4_56158_33882286	NC_021163.1	Ca_kabuli_chr04	33882286	GG	CC	1946818245
SNP_P4_56160_33886847	NC_021163.1	Ca_kabuli_chr04	33886847	CC	TT	1946818247
SNP_P4_56161_33891055	NC_021163.1	Ca_kabuli_chr04	33891055	CC	TT	1946818249
SNP_P4_56162_33893364	NC_021163.1	Ca_kabuli_chr04	33893364	AA	GG	1946818251
SNP_P4_56163_33897491	NC_021163.1	Ca_kabuli_chr04	33897491	AA	GG	1946818253
SNP_P4_56164_33897494	NC_021163.1	Ca_kabuli_chr04	33897494	AA	TT	1946818255
SNP_P4_56165_33897956	NC_021163.1	Ca_kabuli_chr04	33897956	TT	AA	1946818257
SNP_P4_56166_33899416	NC_021163.1	Ca_kabuli_chr04	33899416	GG	TT	1946818259
SNP_P4_56167_33900650	NC_021163.1	Ca_kabuli_chr04	33900650	AA	GG	1946818261
SNP_P4_56168_33901098	NC_021163.1	Ca_kabuli_chr04	33901098	CC	TT	1946818263
SNP_P4_56169_33905376	NC_021163.1	Ca_kabuli_chr04	33905376	GG	AA	1946818265
SNP_P4_56170_33908525	NC_021163.1	Ca_kabuli_chr04	33908525	CC	TT	1946818267
SNP_P4_56171_33913973	NC_021163.1	Ca_kabuli_chr04	33913973	TT	CC	1946818269
SNP_P4_56172_33922759	NC_021163.1	Ca_kabuli_chr04	33922759	TT	CC	1946818271
SNP_P4_56173_33923004	NC_021163.1	Ca_kabuli_chr04	33923004	TT	AA	1946818273
SNP_P4_56175_33936588	NC_021163.1	Ca_kabuli_chr04	33936588	CC	TT	1946818275
SNP_P4_56176_33936941	NC_021163.1	Ca_kabuli_chr04	33936941	CC	TT	1946818277
SNP_P4_56177_33939035	NC_021163.1	Ca_kabuli_chr04	33939035	CC	TT	1946818279
SNP_P4_56178_33939124	NC_021163.1	Ca_kabuli_chr04	33939124	CC	TT	1946818281
SNP_P4_56179_33940904	NC_021163.1	Ca_kabuli_chr04	33940904	TT	CC	1946818283
SNP_P4_56180_33953055	NC_021163.1	Ca_kabuli_chr04	33953055	AA	GG	1946818285
SNP_P4_56183_33955116	NC_021163.1	Ca_kabuli_chr04	33955116	AA	GG	1946818287
SNP_P4_56184_33957403	NC_021163.1	Ca_kabuli_chr04	33957403	CC	GG	1946818289
SNP_P4_56185_33957743	NC_021163.1	Ca_kabuli_chr04	33957743	GG	AA	1946818291
SNP_P4_56189_33979019	NC_021163.1	Ca_kabuli_chr04	33979019	CC	AA	1946818293
SNP_P4_56190_33980122	NC_021163.1	Ca_kabuli_chr04	33980122	TT	GG	1946818295
SNP_P4_56191_33986565	NC_021163.1	Ca_kabuli_chr04	33986565	CC	AA	1946818297
SNP_P4_56192_33996398	NC_021163.1	Ca_kabuli_chr04	33996398	GG	AA	1946818299
SNP_P4_56193_33998508	NC_021163.1	Ca_kabuli_chr04	33998508	CC	AA	1946818301
SNP_P4_56194_33999567	NC_021163.1	Ca_kabuli_chr04	33999567	TT	CC	1946818303
SNP_P4_56195_33999879	NC_021163.1	Ca_kabuli_chr04	33999879	AA	TT	1946818305
SNP_P4_56196_34002035	NC_021163.1	Ca_kabuli_chr04	34002035	TT	CC	1946818307

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_56198_34004468	NC_021163.1	Ca_kabuli_chr04	34004468	GG	TT	1946818311
SNP_P4_56199_34005984	NC_021163.1	Ca_kabuli_chr04	34005984	TT	CC	1946818313
SNP_P4_56200_34009073	NC_021163.1	Ca_kabuli_chr04	34009073	CC	TT	1946818314
SNP_P4_56201_34011067	NC_021163.1	Ca_kabuli_chr04	34011067	AA	GG	1946818316
SNP_P4_56202_34040939	NC_021163.1	Ca_kabuli_chr04	34040939	TT	GG	1946818318
SNP_P4_56203_34041540	NC_021163.1	Ca_kabuli_chr04	34041540	TT	CC	1946818320
SNP_P4_56204_34043793	NC_021163.1	Ca_kabuli_chr04	34043793	TT	CC	1946818322
SNP_P4_56205_34052308	NC_021163.1	Ca_kabuli_chr04	34052308	TT	CC	1946818324
SNP_P4_56206_34053024	NC_021163.1	Ca_kabuli_chr04	34053024	CC	AA	1946818326
SNP_P4_56209_34071929	NC_021163.1	Ca_kabuli_chr04	34071929	CC	TT	1946818328
SNP_P4_56210_34072419	NC_021163.1	Ca_kabuli_chr04	34072419	CC	TT	1946818330
SNP_P4_56211_34078194	NC_021163.1	Ca_kabuli_chr04	34078194	GG	AA	1946818332
SNP_P4_56212_34078616	NC_021163.1	Ca_kabuli_chr04	34078616	AA	CC	1946818334
SNP_P4_56213_34078617	NC_021163.1	Ca_kabuli_chr04	34078617	TT	AA	1946818336
SNP_P4_56214_34078623	NC_021163.1	Ca_kabuli_chr04	34078623	TT	CC	1946818338
SNP_P4_56215_34078656	NC_021163.1	Ca_kabuli_chr04	34078656	AA	GG	1946818340
SNP_P4_56216_34078760	NC_021163.1	Ca_kabuli_chr04	34078760	GG	AA	1946818342
SNP_P4_56217_34083769	NC_021163.1	Ca_kabuli_chr04	34083769	GG	AA	1946818344
SNP_P4_56218_34087330	NC_021163.1	Ca_kabuli_chr04	34087330	GG	TT	1946818346
SNP_P4_56219_34096890	NC_021163.1	Ca_kabuli_chr04	34096890	TT	CC	1946818348
SNP_P4_56220_34097830	NC_021163.1	Ca_kabuli_chr04	34097830	AA	GG	1946818350
SNP_P4_56221_34100220	NC_021163.1	Ca_kabuli_chr04	34100220	TT	GG	1946818352
SNP_P4_56222_34117757	NC_021163.1	Ca_kabuli_chr04	34117757	TT	GG	1946818355
SNP_P4_56223_34117855	NC_021163.1	Ca_kabuli_chr04	34117855	AA	TT	1946818357
SNP_P4_56224_34118053	NC_021163.1	Ca_kabuli_chr04	34118053	CC	TT	1946818359
SNP_P4_56225_34126738	NC_021163.1	Ca_kabuli_chr04	34126738	AA	TT	1946818361
SNP_P4_56226_34129628	NC_021163.1	Ca_kabuli_chr04	34129628	AA	GG	1946818363
SNP_P4_56227_34130424	NC_021163.1	Ca_kabuli_chr04	34130424	AA	GG	1946818365
SNP_P4_56228_34131309	NC_021163.1	Ca_kabuli_chr04	34131309	GG	TT	1946818367
SNP_P4_56229_34133289	NC_021163.1	Ca_kabuli_chr04	34133289	CC	TT	1946818369
SNP_P4_56231_34152859	NC_021163.1	Ca_kabuli_chr04	34152859	CC	TT	1946818371
SNP_P4_56232_34156391	NC_021163.1	Ca_kabuli_chr04	34156391	CC	TT	1946818373
SNP_P4_56233_34159968	NC_021163.1	Ca_kabuli_chr04	34159968	AA	GG	1946818375
SNP_P4_56234_34160104	NC_021163.1	Ca_kabuli_chr04	34160104	GG	AA	1946818377
SNP_P4_56235_34160149	NC_021163.1	Ca_kabuli_chr04	34160149	GG	TT	1946818379
SNP_P4_56236_34161367	NC_021163.1	Ca_kabuli_chr04	34161367	AA	CC	1946818381
SNP_P4_56237_34161398	NC_021163.1	Ca_kabuli_chr04	34161398	CC	GG	1946818383
SNP_P4_56238_34161400	NC_021163.1	Ca_kabuli_chr04	34161400	CC	TT	1946818385
SNP_P4_56239_34161445	NC_021163.1	Ca_kabuli_chr04	34161445	GG	AA	1946818387
SNP_P4_56240_34161476	NC_021163.1	Ca_kabuli_chr04	34161476	GG	AA	1946818389
SNP_P4_56241_34166639	NC_021163.1	Ca_kabuli_chr04	34166639	AA	TT	1946818391

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_56243_34167385	NC_021163.1	Ca_kabuli_chr04	34167385	TT	CC	1946818395
SNP_P4_56244_34167513	NC_021163.1	Ca_kabuli_chr04	34167513	AA	CC	1946818397
SNP_P4_56246_34170628	NC_021163.1	Ca_kabuli_chr04	34170628	AA	CC	1946818400
SNP_P4_56247_34173543	NC_021163.1	Ca_kabuli_chr04	34173543	CC	TT	1946818402
SNP_P4_56248_34177504	NC_021163.1	Ca_kabuli_chr04	34177504	TT	CC	1946818404
SNP_P4_56249_34177505	NC_021163.1	Ca_kabuli_chr04	34177505	AA	CC	1946818406
SNP_P4_56250_34184581	NC_021163.1	Ca_kabuli_chr04	34184581	AA	GG	1946818408
SNP_P4_56251_34188494	NC_021163.1	Ca_kabuli_chr04	34188494	TT	CC	1946818410
SNP_P4_56252_34200016	NC_021163.1	Ca_kabuli_chr04	34200016	CC	AA	1946818412
SNP_P4_56253_34200044	NC_021163.1	Ca_kabuli_chr04	34200044	TT	CC	1946818414
SNP_P4_56254_34200048	NC_021163.1	Ca_kabuli_chr04	34200048	AA	TT	1946818416
SNP_P4_56255_34200388	NC_021163.1	Ca_kabuli_chr04	34200388	AA	GG	1946818418
SNP_P4_56256_34202963	NC_021163.1	Ca_kabuli_chr04	34202963	GG	TT	1946818421
SNP_P4_56257_34202985	NC_021163.1	Ca_kabuli_chr04	34202985	TT	CC	1946818423
SNP_P4_56258_34203015	NC_021163.1	Ca_kabuli_chr04	34203015	CC	AA	1946818425
SNP_P4_56259_34203027	NC_021163.1	Ca_kabuli_chr04	34203027	GG	AA	1946818427
SNP_P4_56260_34203028	NC_021163.1	Ca_kabuli_chr04	34203028	AA	TT	1946818429
SNP_P4_56261_34203030	NC_021163.1	Ca_kabuli_chr04	34203030	TT	CC	1946818431
SNP_P4_56262_34203096	NC_021163.1	Ca_kabuli_chr04	34203096	AA	GG	1946818433
SNP_P4_56263_34203130	NC_021163.1	Ca_kabuli_chr04	34203130	TT	CC	1946818435
SNP_P4_56264_34209558	NC_021163.1	Ca_kabuli_chr04	34209558	TT	AA	1946818437
SNP_P4_56265_34212192	NC_021163.1	Ca_kabuli_chr04	34212192	CC	TT	1946818439
SNP_P4_56266_34212193	NC_021163.1	Ca_kabuli_chr04	34212193	CC	TT	1946818441
SNP_P4_56267_34213114	NC_021163.1	Ca_kabuli_chr04	34213114	GG	AA	1946818443
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SNP_P4_56269_34213859	NC_021163.1	Ca_kabuli_chr04	34213859	CC	TT	1946818447
SNP_P4_56270_34215407	NC_021163.1	Ca_kabuli_chr04	34215407	TT	CC	1946818450
SNP_P4_56271_34216306	NC_021163.1	Ca_kabuli_chr04	34216306	AA	GG	1946818452
SNP_P4_56272_34216311	NC_021163.1	Ca_kabuli_chr04	34216311	TT	CC	1946818454
SNP_P4_56273_34217921	NC_021163.1	Ca_kabuli_chr04	34217921	AA	GG	1946818456
SNP_P4_56274_34218580	NC_021163.1	Ca_kabuli_chr04	34218580	AA	GG	1946818458
SNP_P4_56275_34219029	NC_021163.1	Ca_kabuli_chr04	34219029	TT	CC	1946818460
SNP_P4_56276_34219139	NC_021163.1	Ca_kabuli_chr04	34219139	GG	AA	1946818463
SNP_P4_56277_34225229	NC_021163.1	Ca_kabuli_chr04	34225229	AA	GG	1946818465
SNP_P4_56279_34232769	NC_021163.1	Ca_kabuli_chr04	34232769	AA	GG	1946818467
SNP_P4_56280_34233577	NC_021163.1	Ca_kabuli_chr04	34233577	GG	TT	1946818469
SNP_P4_56281_34235063	NC_021163.1	Ca_kabuli_chr04	34235063	CC	GG	1946818471
SNP_P4_56282_34236243	NC_021163.1	Ca_kabuli_chr04	34236243	AA	GG	1946818473
SNP_P4_56283_34240005	NC_021163.1	Ca_kabuli_chr04	34240005	CC	GG	1946818475
SNP_P4_56284_34240408	NC_021163.1	Ca_kabuli_chr04	34240408	CC	TT	1946818477
SNP_P4_56285_34240465	NC_021163.1	Ca_kabuli_chr04	34240465	GG	AA	1946818479

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_56288_34249053	NC_021163.1	Ca_kabuli_chr04	34249053	CC	GG	1946818484
SNP_P4_56289_34252882	NC_021163.1	Ca_kabuli_chr04	34252882	CC	TT	1946818486
SNP_P4_56290_34252884	NC_021163.1	Ca_kabuli_chr04	34252884	AA	GG	1946818488
SNP_P4_56291_34253461	NC_021163.1	Ca_kabuli_chr04	34253461	CC	AA	1946818490
SNP_P4_56292_34260268	NC_021163.1	Ca_kabuli_chr04	34260268	AA	GG	1946818492
SNP_P4_56293_34260343	NC_021163.1	Ca_kabuli_chr04	34260343	GG	TT	1946818494
SNP_P4_56294_34262341	NC_021163.1	Ca_kabuli_chr04	34262341	TT	CC	1946818496
SNP_P4_56297_34266313	NC_021163.1	Ca_kabuli_chr04	34266313	AA	GG	1946818498
SNP_P4_56298_34266579	NC_021163.1	Ca_kabuli_chr04	34266579	TT	CC	1946818500
SNP_P4_56299_34266746	NC_021163.1	Ca_kabuli_chr04	34266746	AA	GG	1946818502
SNP_P4_56300_34266755	NC_021163.1	Ca_kabuli_chr04	34266755	AA	GG	1946818504
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SNP_P4_56302_34271997	NC_021163.1	Ca_kabuli_chr04	34271997	TT	CC	1946818508
SNP_P4_56303_34272265	NC_021163.1	Ca_kabuli_chr04	34272265	GG	AA	1946818510
SNP_P4_56304_34272520	NC_021163.1	Ca_kabuli_chr04	34272520	CC	TT	1946818512
SNP_P4_56305_34276247	NC_021163.1	Ca_kabuli_chr04	34276247	AA	TT	1946818514
SNP_P4_56306_34280335	NC_021163.1	Ca_kabuli_chr04	34280335	CC	TT	1946818516
SNP_P4_56307_34286807	NC_021163.1	Ca_kabuli_chr04	34286807	CC	TT	1946818518
SNP_P4_56308_34287065	NC_021163.1	Ca_kabuli_chr04	34287065	TT	AA	1946818520
SNP_P4_56309_34288364	NC_021163.1	Ca_kabuli_chr04	34288364	CC	TT	1946818523
SNP_P4_56310_34292691	NC_021163.1	Ca_kabuli_chr04	34292691	AA	GG	1946818525
SNP_P4_56311_34294430	NC_021163.1	Ca_kabuli_chr04	34294430	AA	GG	1946818527
SNP_P4_56312_34294880	NC_021163.1	Ca_kabuli_chr04	34294880	CC	TT	1946818529
SNP_P4_56313_34294881	NC_021163.1	Ca_kabuli_chr04	34294881	TT	CC	1946818531
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SNP_P4_56315_34301574	NC_021163.1	Ca_kabuli_chr04	34301574	CC	TT	1946818535
SNP_P4_56317_34325406	NC_021163.1	Ca_kabuli_chr04	34325406	TT	AA	1946818537
SNP_P4_56318_34325664	NC_021163.1	Ca_kabuli_chr04	34325664	GG	AA	1946818539
SNP_P4_56320_34330906	NC_021163.1	Ca_kabuli_chr04	34330906	TT	CC	1946818541
SNP_P4_56321_34331221	NC_021163.1	Ca_kabuli_chr04	34331221	GG	AA	1946818543
SNP_P4_56322_34332092	NC_021163.1	Ca_kabuli_chr04	34332092	CC	GG	1946818545
SNP_P4_56323_34333275	NC_021163.1	Ca_kabuli_chr04	34333275	GG	AA	1946818547
SNP_P4_56325_34335856	NC_021163.1	Ca_kabuli_chr04	34335856	AA	GG	1946818549
SNP_P4_56326_34339822	NC_021163.1	Ca_kabuli_chr04	34339822	TT	CC	1946818551
SNP_P4_56327_34342170	NC_021163.1	Ca_kabuli_chr04	34342170	AA	CC	1946818553
SNP_P4_56328_34342188	NC_021163.1	Ca_kabuli_chr04	34342188	CC	TT	1946818555
SNP_P4_56329_34354227	NC_021163.1	Ca_kabuli_chr04	34354227	AA	TT	1946818557
SNP_P4_56331_34376812	NC_021163.1	Ca_kabuli_chr04	34376812	CC	TT	1946818559
SNP_P4_56332_34380437	NC_021163.1	Ca_kabuli_chr04	34380437	GG	AA	1946818561
SNP_P4_56333_34384596	NC_021163.1	Ca_kabuli_chr04	34384596	TT	CC	1946818563
SNP_P4_56334_34384696	NC_021163.1	Ca_kabuli_chr04	34384696	AA	TT	1946818565

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_56335_34384698	NC_021163.1	Ca_kabuli_chr04	34384698	AA	CC	1946818567
SNP_P4_56336_34384734	NC_021163.1	Ca_kabuli_chr04	34384734	AA	CC	1946818569
SNP_P4_56337_34384813	NC_021163.1	Ca_kabuli_chr04	34384813	CC	TT	1946818571
SNP_P4_56339_34387600	NC_021163.1	Ca_kabuli_chr04	34387600	GG	CC	1946818573
SNP_P4_56340_34387924	NC_021163.1	Ca_kabuli_chr04	34387924	CC	TT	1946818575
SNP_P4_56341_34387996	NC_021163.1	Ca_kabuli_chr04	34387996	TT	GG	1946818577
SNP_P4_56344_34389100	NC_021163.1	Ca_kabuli_chr04	34389100	AA	GG	1946818579
SNP_P4_56345_34390975	NC_021163.1	Ca_kabuli_chr04	34390975	GG	TT	1946818581
SNP_P4_56346_34394032	NC_021163.1	Ca_kabuli_chr04	34394032	AA	GG	1946818583
SNP_P4_56347_34404493	NC_021163.1	Ca_kabuli_chr04	34404493	GG	AA	1946818585
SNP_P4_56348_34406293	NC_021163.1	Ca_kabuli_chr04	34406293	AA	CC	1946818587
SNP_P4_56349_34407343	NC_021163.1	Ca_kabuli_chr04	34407343	TT	AA	1946818589
SNP_P4_56350_34407349	NC_021163.1	Ca_kabuli_chr04	34407349	GG	TT	1946818591
SNP_P4_56351_34407458	NC_021163.1	Ca_kabuli_chr04	34407458	AA	GG	1946818593
SNP_P4_56353_34412628	NC_021163.1	Ca_kabuli_chr04	34412628	AA	GG	1946818595
SNP_P4_56354_34412645	NC_021163.1	Ca_kabuli_chr04	34412645	TT	CC	1946818597
SNP_P4_56356_34417701	NC_021163.1	Ca_kabuli_chr04	34417701	TT	CC	1946818599
SNP_P4_56357_34417939	NC_021163.1	Ca_kabuli_chr04	34417939	GG	AA	1946818601
SNP_P4_56358_34421287	NC_021163.1	Ca_kabuli_chr04	34421287	TT	CC	1946818603
SNP_P4_56359_34423282	NC_021163.1	Ca_kabuli_chr04	34423282	CC	TT	1946818605
SNP_P4_56360_34423751	NC_021163.1	Ca_kabuli_chr04	34423751	AA	GG	1946818607
SNP_P4_56361_34424020	NC_021163.1	Ca_kabuli_chr04	34424020	TT	CC	1946818609
SNP_P4_56362_34430231	NC_021163.1	Ca_kabuli_chr04	34430231	AA	GG	1946818611
SNP_P4_56363_34431258	NC_021163.1	Ca_kabuli_chr04	34431258	CC	TT	1946818613
SNP_P4_56364_34432063	NC_021163.1	Ca_kabuli_chr04	34432063	AA	GG	1946818615
SNP_P4_56365_34432147	NC_021163.1	Ca_kabuli_chr04	34432147	CC	GG	1946818617
SNP_P4_56367_34436552	NC_021163.1	Ca_kabuli_chr04	34436552	CC	TT	1946818620
SNP_P4_56368_34442705	NC_021163.1	Ca_kabuli_chr04	34442705	TT	CC	1946818622
SNP_P4_56369_34444107	NC_021163.1	Ca_kabuli_chr04	34444107	TT	GG	1946818624
SNP_P4_56370_34444315	NC_021163.1	Ca_kabuli_chr04	34444315	GG	TT	1946818626
SNP_P4_56371_34445230	NC_021163.1	Ca_kabuli_chr04	34445230	CC	TT	1946818628
SNP_P4_56372_34446825	NC_021163.1	Ca_kabuli_chr04	34446825	AA	GG	1946818630
SNP_P4_56373_34448082	NC_021163.1	Ca_kabuli_chr04	34448082	CC	TT	1946818632
SNP_P4_56374_34449401	NC_021163.1	Ca_kabuli_chr04	34449401	GG	AA	1946818634
SNP_P4_56375_34458791	NC_021163.1	Ca_kabuli_chr04	34458791	AA	GG	1946818637
SNP_P4_56376_34458801	NC_021163.1	Ca_kabuli_chr04	34458801	AA	GG	1946818639
SNP_P4_56378_34461554	NC_021163.1	Ca_kabuli_chr04	34461554	CC	GG	1946818641
SNP_P4_56383_34472342	NC_021163.1	Ca_kabuli_chr04	34472342	TT	CC	1946818643
SNP_P4_56385_34490566	NC_021163.1	Ca_kabuli_chr04	34490566	TT	CC	1946818645
SNP_P4_56386_34491652	NC_021163.1	Ca_kabuli_chr04	34491652	AA	CC	1946818647
SNP_P4_56387_34491653	NC_021163.1	Ca_kabuli_chr04	34491653	AA	TT	1946818649
SNP_P4_56389_34493325	NC_021163.1	Ca_kabuli_chr04	34493325	CC	TT	1946818651

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_56391_34496956	NC_021163.1	Ca_kabuli_chr04	34496956	CC	TT	1946818655
SNP_P4_56392_34496962	NC_021163.1	Ca_kabuli_chr04	34496962	GG	AA	1946818657
SNP_P4_56393_34503298	NC_021163.1	Ca_kabuli_chr04	34503298	GG	AA	1946818659
SNP_P4_56395_34503637	NC_021163.1	Ca_kabuli_chr04	34503637	CC	TT	1946818661
SNP_P4_56396_34503644	NC_021163.1	Ca_kabuli_chr04	34503644	AA	GG	1946818663
SNP_P4_56397_34503797	NC_021163.1	Ca_kabuli_chr04	34503797	CC	TT	1946818665
SNP_P4_56398_34507800	NC_021163.1	Ca_kabuli_chr04	34507800	CC	GG	1946818667
SNP_P4_56399_34513411	NC_021163.1	Ca_kabuli_chr04	34513411	AA	GG	1946818669
SNP_P4_56401_34520659	NC_021163.1	Ca_kabuli_chr04	34520659	CC	GG	1946818671
SNP_P4_56402_34520775	NC_021163.1	Ca_kabuli_chr04	34520775	AA	TT	1946818673
SNP_P4_56403_34520848	NC_021163.1	Ca_kabuli_chr04	34520848	TT	AA	1946818675
SNP_P4_56404_34520878	NC_021163.1	Ca_kabuli_chr04	34520878	TT	CC	1946818677
SNP_P4_56405_34520974	NC_021163.1	Ca_kabuli_chr04	34520974	AA	TT	1946818679
SNP_P4_56406_34525158	NC_021163.1	Ca_kabuli_chr04	34525158	TT	CC	1946818681
SNP_P4_56407_34525236	NC_021163.1	Ca_kabuli_chr04	34525236	TT	CC	1946818683
SNP_P4_56408_34526980	NC_021163.1	Ca_kabuli_chr04	34526980	AA	GG	1946818685
SNP_P4_56409_34527008	NC_021163.1	Ca_kabuli_chr04	34527008	AA	GG	1946818687
SNP_P4_56410_34527026	NC_021163.1	Ca_kabuli_chr04	34527026	AA	GG	1946818689
SNP_P4_56411_34554541	NC_021163.1	Ca_kabuli_chr04	34554541	AA	GG	1946818691
SNP_P4_56412_34557892	NC_021163.1	Ca_kabuli_chr04	34557892	GG	TT	1946818693
SNP_P4_56413_34557908	NC_021163.1	Ca_kabuli_chr04	34557908	CC	AA	1946818695
SNP_P4_56414_34566166	NC_021163.1	Ca_kabuli_chr04	34566166	CC	TT	1946818697
SNP_P4_56416_34566337	NC_021163.1	Ca_kabuli_chr04	34566337	AA	GG	1946818699
SNP_P4_56418_34568184	NC_021163.1	Ca_kabuli_chr04	34568184	AA	GG	1946818701
SNP_P4_56419_34568796	NC_021163.1	Ca_kabuli_chr04	34568796	GG	AA	1946818703
SNP_P4_56420_34568822	NC_021163.1	Ca_kabuli_chr04	34568822	GG	AA	1946818706
SNP_P4_56421_34568829	NC_021163.1	Ca_kabuli_chr04	34568829	AA	TT	1946818708
SNP_P4_56422_34570263	NC_021163.1	Ca_kabuli_chr04	34570263	CC	AA	1946818710
SNP_P4_56423_34582083	NC_021163.1	Ca_kabuli_chr04	34582083	CC	GG	1946818712
SNP_P4_56424_34582114	NC_021163.1	Ca_kabuli_chr04	34582114	CC	TT	1946818714
SNP_P4_56425_34582328	NC_021163.1	Ca_kabuli_chr04	34582328	TT	AA	1946818716
SNP_P4_56426_34582570	NC_021163.1	Ca_kabuli_chr04	34582570	CC	AA	1946818718
SNP_P4_56427_34582594	NC_021163.1	Ca_kabuli_chr04	34582594	TT	GG	1946818720
SNP_P4_56428_34586455	NC_021163.1	Ca_kabuli_chr04	34586455	CC	TT	1946818722
SNP_P4_56429_34586566	NC_021163.1	Ca_kabuli_chr04	34586566	AA	GG	1946818724
SNP_P4_56430_34586570	NC_021163.1	Ca_kabuli_chr04	34586570	AA	TT	1946818726
SNP_P4_56431_34586657	NC_021163.1	Ca_kabuli_chr04	34586657	TT	GG	1946818728
SNP_P4_56432_34586668	NC_021163.1	Ca_kabuli_chr04	34586668	AA	CC	1946818730
SNP_P4_56433_34586669	NC_021163.1	Ca_kabuli_chr04	34586669	TT	AA	1946818732
SNP_P4_56434_34586762	NC_021163.1	Ca_kabuli_chr04	34586762	CC	TT	1946818734
SNP_P4_56435_34586792	NC_021163.1	Ca_kabuli_chr04	34586792	TT	AA	1946818736

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_56437_34588023	NC_021163.1	Ca_kabuli_chr04	34588023	GG	CC	1946818738
SNP_P4_56438_34588673	NC_021163.1	Ca_kabuli_chr04	34588673	CC	GG	1946818739
SNP_P4_56439_34590757	NC_021163.1	Ca_kabuli_chr04	34590757	GG	CC	1946818740
SNP_P4_56440_34590761	NC_021163.1	Ca_kabuli_chr04	34590761	AA	GG	1946818741
SNP_P4_56441_34598904	NC_021163.1	Ca_kabuli_chr04	34598904	AA	TT	1946818743
SNP_P4_56442_34599117	NC_021163.1	Ca_kabuli_chr04	34599117	CC	AA	1946818745
SNP_P4_56443_34599239	NC_021163.1	Ca_kabuli_chr04	34599239	GG	CC	1946818747
SNP_P4_56444_34601674	NC_021163.1	Ca_kabuli_chr04	34601674	TT	AA	1946818749
SNP_P4_56445_34601691	NC_021163.1	Ca_kabuli_chr04	34601691	TT	CC	1946818751
SNP_P4_56448_34605419	NC_021163.1	Ca_kabuli_chr04	34605419	TT	AA	1946818753
SNP_P4_56449_34605424	NC_021163.1	Ca_kabuli_chr04	34605424	AA	GG	1946818755
SNP_P4_56450_34605539	NC_021163.1	Ca_kabuli_chr04	34605539	TT	CC	1946818757
SNP_P4_56451_34605540	NC_021163.1	Ca_kabuli_chr04	34605540	CC	GG	1946818759
SNP_P4_56452_34605544	NC_021163.1	Ca_kabuli_chr04	34605544	GG	AA	1946818761
SNP_P4_56453_34605545	NC_021163.1	Ca_kabuli_chr04	34605545	CC	AA	1946818763
SNP_P4_56454_34605547	NC_021163.1	Ca_kabuli_chr04	34605547	AA	TT	1946818765
SNP_P4_56455_34605564	NC_021163.1	Ca_kabuli_chr04	34605564	GG	AA	1946818767
SNP_P4_56456_34605570	NC_021163.1	Ca_kabuli_chr04	34605570	TT	GG	1946818769
SNP_P4_56458_34605595	NC_021163.1	Ca_kabuli_chr04	34605595	TT	CC	1946818771
SNP_P4_56459_34606687	NC_021163.1	Ca_kabuli_chr04	34606687	GG	CC	1946818773
SNP_P4_56460_34634905	NC_021163.1	Ca_kabuli_chr04	34634905	TT	CC	1946818775
SNP_P4_56461_34634914	NC_021163.1	Ca_kabuli_chr04	34634914	AA	TT	1946818777
SNP_P4_56462_34634921	NC_021163.1	Ca_kabuli_chr04	34634921	AA	TT	1946818779
SNP_P4_56463_34642259	NC_021163.1	Ca_kabuli_chr04	34642259	TT	GG	1946818781
SNP_P4_56464_34647722	NC_021163.1	Ca_kabuli_chr04	34647722	AA	GG	1946818784
SNP_P4_56465_34649337	NC_021163.1	Ca_kabuli_chr04	34649337	AA	TT	1946818786
SNP_P4_56466_34664310	NC_021163.1	Ca_kabuli_chr04	34664310	TT	GG	1946818788
SNP_P4_56467_34664329	NC_021163.1	Ca_kabuli_chr04	34664329	GG	TT	1946818790
SNP_P4_56468_34683690	NC_021163.1	Ca_kabuli_chr04	34683690	TT	CC	1946818792
SNP_P4_56469_34683694	NC_021163.1	Ca_kabuli_chr04	34683694	GG	AA	1946818794
SNP_P4_56470_34695504	NC_021163.1	Ca_kabuli_chr04	34695504	CC	TT	1946818796
SNP_P4_56471_34695505	NC_021163.1	Ca_kabuli_chr04	34695505	CC	AA	1946818798
SNP_P4_56472_34695510	NC_021163.1	Ca_kabuli_chr04	34695510	TT	AA	1946818800
SNP_P4_56473_34695514	NC_021163.1	Ca_kabuli_chr04	34695514	CC	AA	1946818802
SNP_P4_56474_34695520	NC_021163.1	Ca_kabuli_chr04	34695520	CC	AA	1946818804
SNP_P4_56475_34695531	NC_021163.1	Ca_kabuli_chr04	34695531	GG	CC	1946818806
SNP_P4_56476_34695533	NC_021163.1	Ca_kabuli_chr04	34695533	AA	TT	1946818808
SNP_P4_56477_34704178	NC_021163.1	Ca_kabuli_chr04	34704178	GG	AA	1946818810
SNP_P4_56478_34704215	NC_021163.1	Ca_kabuli_chr04	34704215	TT	CC	1946818813
SNP_P4_56479_34704245	NC_021163.1	Ca_kabuli_chr04	34704245	TT	CC	1946818815
SNP_P4_56480_34704249	NC_021163.1	Ca_kabuli_chr04	34704249	CC	GG	1946818817

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_56482_34704507	NC_021163.1	Ca_kabuli_chr04	34704507	AA	GG	1946818821
SNP_P4_56484_34704510	NC_021163.1	Ca_kabuli_chr04	34704510	GG	AA	1946818823
SNP_P4_56485_34704511	NC_021163.1	Ca_kabuli_chr04	34704511	GG	AA	1946818825
SNP_P4_56486_34704636	NC_021163.1	Ca_kabuli_chr04	34704636	AA	GG	1946818827
SNP_P4_56487_34704802	NC_021163.1	Ca_kabuli_chr04	34704802	GG	AA	1946818829
SNP_P4_56488_34712597	NC_021163.1	Ca_kabuli_chr04	34712597	TT	AA	1946818831
SNP_P4_56489_34715464	NC_021163.1	Ca_kabuli_chr04	34715464	GG	AA	1946818833
SNP_P4_56490_34743426	NC_021163.1	Ca_kabuli_chr04	34743426	TT	CC	1946818835
SNP_P4_56491_34774264	NC_021163.1	Ca_kabuli_chr04	34774264	AA	CC	1946818837
SNP_P4_56492_34785902	NC_021163.1	Ca_kabuli_chr04	34785902	AA	GG	1946818839
SNP_P4_56493_34794377	NC_021163.1	Ca_kabuli_chr04	34794377	CC	TT	1946818841
SNP_P4_56494_34831908	NC_021163.1	Ca_kabuli_chr04	34831908	AA	GG	1946818843
SNP_P4_56495_34832375	NC_021163.1	Ca_kabuli_chr04	34832375	GG	AA	1946818845
SNP_P4_56496_34833925	NC_021163.1	Ca_kabuli_chr04	34833925	AA	GG	1946818847
SNP_P4_56497_34833955	NC_021163.1	Ca_kabuli_chr04	34833955	GG	TT	1946818849
SNP_P4_56498_34833971	NC_021163.1	Ca_kabuli_chr04	34833971	AA	GG	1946818852
SNP_P4_56499_34834025	NC_021163.1	Ca_kabuli_chr04	34834025	TT	CC	1946818854
SNP_P4_56500_34834395	NC_021163.1	Ca_kabuli_chr04	34834395	TT	CC	1946818856
SNP_P4_56501_34840681	NC_021163.1	Ca_kabuli_chr04	34840681	TT	GG	1946818858
SNP_P4_56502_34840688	NC_021163.1	Ca_kabuli_chr04	34840688	AA	GG	1946818860
SNP_P4_56503_34840714	NC_021163.1	Ca_kabuli_chr04	34840714	AA	GG	1946818862
SNP_P4_56504_34850214	NC_021163.1	Ca_kabuli_chr04	34850214	TT	AA	1946818864
SNP_P4_56505_34854231	NC_021163.1	Ca_kabuli_chr04	34854231	AA	GG	1946818866
SNP_P4_56506_34854672	NC_021163.1	Ca_kabuli_chr04	34854672	CC	TT	1946818868
SNP_P4_56507_34854681	NC_021163.1	Ca_kabuli_chr04	34854681	CC	TT	1946818870
SNP_P4_56508_34883297	NC_021163.1	Ca_kabuli_chr04	34883297	CC	TT	1946818872
SNP_P4_56509_34883315	NC_021163.1	Ca_kabuli_chr04	34883315	TT	CC	1946818874
SNP_P4_56510_34883316	NC_021163.1	Ca_kabuli_chr04	34883316	TT	CC	1946818876
SNP_P4_56511_34883320	NC_021163.1	Ca_kabuli_chr04	34883320	CC	TT	1946818878
SNP_P4_56512_34883366	NC_021163.1	Ca_kabuli_chr04	34883366	AA	GG	1946818881
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SNP_P4_56514_34883519	NC_021163.1	Ca_kabuli_chr04	34883519	TT	CC	1946818885
SNP_P4_56515_34883526	NC_021163.1	Ca_kabuli_chr04	34883526	TT	CC	1946818887
SNP_P4_56516_34883528	NC_021163.1	Ca_kabuli_chr04	34883528	CC	TT	1946818889
SNP_P4_56517_34883539	NC_021163.1	Ca_kabuli_chr04	34883539	TT	CC	1946818891
SNP_P4_56518_34883572	NC_021163.1	Ca_kabuli_chr04	34883572	TT	GG	1946818893
SNP_P4_56519_34883604	NC_021163.1	Ca_kabuli_chr04	34883604	AA	GG	1946818895
SNP_P4_56520_34883620	NC_021163.1	Ca_kabuli_chr04	34883620	AA	GG	1946818897
SNP_P4_56521_34883627	NC_021163.1	Ca_kabuli_chr04	34883627	AA	GG	1946818899
SNP_P4_56522_34883652	NC_021163.1	Ca_kabuli_chr04	34883652	AA	GG	1946818901
SNP_P4_56523_34883663	NC_021163.1	Ca_kabuli_chr04	34883663	AA	GG	1946818903

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_56525_34883678	NC_021163.1	Ca_kabuli_chr04	34883678	CC	TT	1946818907
SNP_P4_56526_34883724	NC_021163.1	Ca_kabuli_chr04	34883724	AA	CC	1946818909
SNP_P4_56527_34883727	NC_021163.1	Ca_kabuli_chr04	34883727	TT	AA	1946818911
SNP_P4_56528_34883734	NC_021163.1	Ca_kabuli_chr04	34883734	AA	GG	1946818913
SNP_P4_56529_34883796	NC_021163.1	Ca_kabuli_chr04	34883796	TT	GG	1946818915
SNP_P4_56530_34883885	NC_021163.1	Ca_kabuli_chr04	34883885	TT	AA	1946818917
SNP_P4_56531_34883887	NC_021163.1	Ca_kabuli_chr04	34883887	TT	CC	1946818919
SNP_P4_56532_34883893	NC_021163.1	Ca_kabuli_chr04	34883893	TT	AA	1946818921
SNP_P4_56533_34883941	NC_021163.1	Ca_kabuli_chr04	34883941	CC	AA	1946818923
SNP_P4_56534_34883945	NC_021163.1	Ca_kabuli_chr04	34883945	GG	AA	1946818925
SNP_P4_56535_34883960	NC_021163.1	Ca_kabuli_chr04	34883960	AA	GG	1946818927
SNP_P4_56536_34883965	NC_021163.1	Ca_kabuli_chr04	34883965	TT	GG	1946818929
SNP_P4_56537_34883978	NC_021163.1	Ca_kabuli_chr04	34883978	TT	GG	1946818931
SNP_P4_56538_34883996	NC_021163.1	Ca_kabuli_chr04	34883996	AA	TT	1946818933
SNP_P4_56539_34884038	NC_021163.1	Ca_kabuli_chr04	34884038	AA	GG	1946818935
SNP_P4_56540_34884092	NC_021163.1	Ca_kabuli_chr04	34884092	TT	GG	1946818937
SNP_P4_56541_34884096	NC_021163.1	Ca_kabuli_chr04	34884096	CC	TT	1946818939
SNP_P4_56542_34884112	NC_021163.1	Ca_kabuli_chr04	34884112	TT	CC	1946818941
SNP_P4_56543_34884377	NC_021163.1	Ca_kabuli_chr04	34884377	AA	CC	1946818943
SNP_P4_56544_34884380	NC_021163.1	Ca_kabuli_chr04	34884380	TT	CC	1946818945
SNP_P4_56545_34884386	NC_021163.1	Ca_kabuli_chr04	34884386	TT	GG	1946818947
SNP_P4_56546_34884505	NC_021163.1	Ca_kabuli_chr04	34884505	AA	TT	1946818949
SNP_P4_56547_34884518	NC_021163.1	Ca_kabuli_chr04	34884518	AA	TT	1946818951
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SNP_P4_56551_34884589	NC_021163.1	Ca_kabuli_chr04	34884589	TT	GG	1946818957
SNP_P4_56552_34884590	NC_021163.1	Ca_kabuli_chr04	34884590	TT	GG	1946818959
SNP_P4_56553_34884594	NC_021163.1	Ca_kabuli_chr04	34884594	AA	TT	1946818961
SNP_P4_56554_34884603	NC_021163.1	Ca_kabuli_chr04	34884603	TT	CC	1946818963
SNP_P4_56555_34884737	NC_021163.1	Ca_kabuli_chr04	34884737	AA	TT	1946818965
SNP_P4_56556_34884750	NC_021163.1	Ca_kabuli_chr04	34884750	TT	GG	1946818967
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SNP_P4_56559_34902938	NC_021163.1	Ca_kabuli_chr04	34902938	GG	AA	1946818971
SNP_P4_56560_34902955	NC_021163.1	Ca_kabuli_chr04	34902955	AA	TT	1946818973
SNP_P4_56561_34902963	NC_021163.1	Ca_kabuli_chr04	34902963	CC	TT	1946818975
SNP_P4_56562_34903226	NC_021163.1	Ca_kabuli_chr04	34903226	TT	CC	1946818978
SNP_P4_56563_34903239	NC_021163.1	Ca_kabuli_chr04	34903239	CC	AA	1946818980
SNP_P4_56564_34903255	NC_021163.1	Ca_kabuli_chr04	34903255	TT	CC	1946818982
SNP_P4_56565_34911075	NC_021163.1	Ca_kabuli_chr04	34911075	GG	AA	1946818985
SNP_P4_56566_34911076	NC_021163.1	Ca_kabuli_chr04	34911076	AA	TT	1946818987
SNP_P4_56567_34911077	NC_021163.1	Ca_kabuli_chr04	34911077	CC	TT	1946818989

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_56569_34912982	NC_021163.1	Ca_kabuli_chr04	34912982	CC	TT	1946818993
SNP_P4_56570_34912990	NC_021163.1	Ca_kabuli_chr04	34912990	TT	CC	1946818995
SNP_P4_56571_34912995	NC_021163.1	Ca_kabuli_chr04	34912995	TT	AA	1946818997
SNP_P4_56572_34913006	NC_021163.1	Ca_kabuli_chr04	34913006	AA	CC	1946819000
SNP_P4_56573_34913083	NC_021163.1	Ca_kabuli_chr04	34913083	AA	GG	1946819002
SNP_P4_56574_34920873	NC_021163.1	Ca_kabuli_chr04	34920873	TT	AA	1946819004
SNP_P4_56575_34937139	NC_021163.1	Ca_kabuli_chr04	34937139	GG	AA	1946819006
SNP_P4_56576_34937644	NC_021163.1	Ca_kabuli_chr04	34937644	CC	TT	1946819008
SNP_P4_56578_34955174	NC_021163.1	Ca_kabuli_chr04	34955174	GG	TT	1946819010
SNP_P4_56579_34964961	NC_021163.1	Ca_kabuli_chr04	34964961	TT	AA	1946819012
SNP_P4_56581_34972094	NC_021163.1	Ca_kabuli_chr04	34972094	TT	GG	1946819014
SNP_P4_56582_34973955	NC_021163.1	Ca_kabuli_chr04	34973955	GG	AA	1946819017
SNP_P4_56583_34990622	NC_021163.1	Ca_kabuli_chr04	34990622	GG	AA	1946819019
SNP_P4_56584_35018635	NC_021163.1	Ca_kabuli_chr04	35018635	AA	CC	1946819021
SNP_P4_56585_35019342	NC_021163.1	Ca_kabuli_chr04	35019342	CC	TT	1946819023
SNP_P4_56586_35021374	NC_021163.1	Ca_kabuli_chr04	35021374	AA	CC	1946819025
SNP_P4_56587_35027136	NC_021163.1	Ca_kabuli_chr04	35027136	CC	AA	1946819027
SNP_P4_56588_35037251	NC_021163.1	Ca_kabuli_chr04	35037251	AA	CC	1946819029
SNP_P4_56589_35043751	NC_021163.1	Ca_kabuli_chr04	35043751	CC	TT	1946819031
SNP_P4_56590_35047703	NC_021163.1	Ca_kabuli_chr04	35047703	CC	TT	1946819033
SNP_P4_56591_35051557	NC_021163.1	Ca_kabuli_chr04	35051557	AA	GG	1946819035
SNP_P4_56592_35053421	NC_021163.1	Ca_kabuli_chr04	35053421	GG	AA	1946819037
SNP_P4_56593_35061110	NC_021163.1	Ca_kabuli_chr04	35061110	TT	CC	1946819039
SNP_P4_56594_35077127	NC_021163.1	Ca_kabuli_chr04	35077127	AA	CC	1946819042
SNP_P4_56595_35077140	NC_021163.1	Ca_kabuli_chr04	35077140	AA	CC	1946819044
SNP_P4_56596_35095188	NC_021163.1	Ca_kabuli_chr04	35095188	AA	TT	1946819046
SNP_P4_56597_35095189	NC_021163.1	Ca_kabuli_chr04	35095189	TT	AA	1946819048
SNP_P4_56598_35095630	NC_021163.1	Ca_kabuli_chr04	35095630	AA	GG	1946819050
SNP_P4_56599_35095636	NC_021163.1	Ca_kabuli_chr04	35095636	CC	GG	1946819052
SNP_P4_56600_35099486	NC_021163.1	Ca_kabuli_chr04	35099486	TT	CC	1946819055
SNP_P4_56601_35111353	NC_021163.1	Ca_kabuli_chr04	35111353	AA	CC	1946819057
SNP_P4_56603_35114980	NC_021163.1	Ca_kabuli_chr04	35114980	AA	GG	1946819059
SNP_P4_56604_35115012	NC_021163.1	Ca_kabuli_chr04	35115012	CC	AA	1946819061
SNP_P4_56605_35115173	NC_021163.1	Ca_kabuli_chr04	35115173	TT	AA	1946819063
SNP_P4_56606_35115181	NC_021163.1	Ca_kabuli_chr04	35115181	TT	CC	1946819065
SNP_P4_56607_35115209	NC_021163.1	Ca_kabuli_chr04	35115209	GG	AA	1946819067
SNP_P4_56608_35115215	NC_021163.1	Ca_kabuli_chr04	35115215	AA	CC	1946819069
SNP_P4_56609_35115248	NC_021163.1	Ca_kabuli_chr04	35115248	AA	GG	1946819071
SNP_P4_56610_35115266	NC_021163.1	Ca_kabuli_chr04	35115266	AA	GG	1946819073
SNP_P4_56611_35115281	NC_021163.1	Ca_kabuli_chr04	35115281	GG	AA	1946819075
SNP_P4_56612_35115299	NC_021163.1	Ca_kabuli_chr04	35115299	AA	GG	1946819077

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_56614_35115356	NC_021163.1	Ca_kabuli_chr04	35115356	AA	TT	1946819081
SNP_P4_56615_35136166	NC_021163.1	Ca_kabuli_chr04	35136166	TT	AA	1946819083
SNP_P4_56616_35139446	NC_021163.1	Ca_kabuli_chr04	35139446	AA	TT	1946819085
SNP_P4_56617_35141778	NC_021163.1	Ca_kabuli_chr04	35141778	AA	TT	1946819087
SNP_P4_56618_35182259	NC_021163.1	Ca_kabuli_chr04	35182259	AA	GG	1946819089
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SNP_P4_56620_35185386	NC_021163.1	Ca_kabuli_chr04	35185386	CC	TT	1946819093
SNP_P4_56621_35187464	NC_021163.1	Ca_kabuli_chr04	35187464	AA	GG	1946819095
SNP_P4_56622_35187517	NC_021163.1	Ca_kabuli_chr04	35187517	AA	TT	1946819097
SNP_P4_56623_35187536	NC_021163.1	Ca_kabuli_chr04	35187536	AA	TT	1946819099
SNP_P4_56624_35187553	NC_021163.1	Ca_kabuli_chr04	35187553	GG	TT	1946819101
SNP_P4_56625_35195303	NC_021163.1	Ca_kabuli_chr04	35195303	TT	CC	1946819103
SNP_P4_56626_35213101	NC_021163.1	Ca_kabuli_chr04	35213101	AA	GG	1946819105
SNP_P4_56627_35222682	NC_021163.1	Ca_kabuli_chr04	35222682	AA	GG	1946819107
SNP_P4_56628_35246316	NC_021163.1	Ca_kabuli_chr04	35246316	GG	AA	1946819109
SNP_P4_56629_35257274	NC_021163.1	Ca_kabuli_chr04	35257274	CC	TT	1946819111
SNP_P4_56630_35257617	NC_021163.1	Ca_kabuli_chr04	35257617	CC	AA	1946819113
SNP_P4_56631_35258030	NC_021163.1	Ca_kabuli_chr04	35258030	AA	CC	1946819115
SNP_P4_56632_35267781	NC_021163.1	Ca_kabuli_chr04	35267781	TT	GG	1946819117
SNP_P4_56633_35267787	NC_021163.1	Ca_kabuli_chr04	35267787	GG	CC	1946819119
SNP_P4_56634_35284433	NC_021163.1	Ca_kabuli_chr04	35284433	TT	AA	1946819121
SNP_P4_56636_35342311	NC_021163.1	Ca_kabuli_chr04	35342311	CC	TT	1946819123
SNP_P4_56637_35342386	NC_021163.1	Ca_kabuli_chr04	35342386	GG	AA	1946819125
SNP_P4_56638_35342671	NC_021163.1	Ca_kabuli_chr04	35342671	GG	TT	1946819126
SNP_P4_56639_35342724	NC_021163.1	Ca_kabuli_chr04	35342724	AA	GG	1946819128
SNP_P4_56640_35342858	NC_021163.1	Ca_kabuli_chr04	35342858	TT	CC	1946819130
SNP_P4_56641_35342923	NC_021163.1	Ca_kabuli_chr04	35342923	GG	AA	1946819132
SNP_P4_56642_35343917	NC_021163.1	Ca_kabuli_chr04	35343917	CC	TT	1946819134
SNP_P4_56643_35343934	NC_021163.1	Ca_kabuli_chr04	35343934	AA	GG	1946819136
SNP_P4_56644_35343974	NC_021163.1	Ca_kabuli_chr04	35343974	CC	TT	1946819138
SNP_P4_56646_35345936	NC_021163.1	Ca_kabuli_chr04	35345936	CC	TT	1946819140
SNP_P4_56647_35369564	NC_021163.1	Ca_kabuli_chr04	35369564	TT	GG	1946819142
SNP_P4_56648_35377035	NC_021163.1	Ca_kabuli_chr04	35377035	CC	TT	1946819144
SNP_P4_56649_35390634	NC_021163.1	Ca_kabuli_chr04	35390634	CC	AA	1946819146
SNP_P4_56650_35391598	NC_021163.1	Ca_kabuli_chr04	35391598	CC	GG	1946819148
SNP_P4_56651_35391918	NC_021163.1	Ca_kabuli_chr04	35391918	TT	GG	1946819150
SNP_P4_56652_35391939	NC_021163.1	Ca_kabuli_chr04	35391939	AA	TT	1946819152
SNP_P4_56653_35391951	NC_021163.1	Ca_kabuli_chr04	35391951	AA	TT	1946819154
SNP_P4_56655_35430317	NC_021163.1	Ca_kabuli_chr04	35430317	GG	AA	1946819156
SNP_P4_56656_35430378	NC_021163.1	Ca_kabuli_chr04	35430378	GG	AA	1946819158
SNP_P4_56657_35430382	NC_021163.1	Ca_kabuli_chr04	35430382	TT	AA	1946819160

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_56659_35430892	NC_021163.1	Ca_kabuli_chr04	35430892	TT	AA	1946819164
SNP_P4_56660_35430948	NC_021163.1	Ca_kabuli_chr04	35430948	TT	CC	1946819165
SNP_P4_56661_35431031	NC_021163.1	Ca_kabuli_chr04	35431031	AA	GG	1946819167
SNP_P4_56662_35431538	NC_021163.1	Ca_kabuli_chr04	35431538	AA	CC	1946819169
SNP_P4_56663_35431549	NC_021163.1	Ca_kabuli_chr04	35431549	TT	AA	1946819171
SNP_P4_56664_35431567	NC_021163.1	Ca_kabuli_chr04	35431567	CC	GG	1946819173
SNP_P4_56665_35431591	NC_021163.1	Ca_kabuli_chr04	35431591	CC	TT	1946819175
SNP_P4_56667_35431628	NC_021163.1	Ca_kabuli_chr04	35431628	AA	GG	1946819177
SNP_P4_56668_35431680	NC_021163.1	Ca_kabuli_chr04	35431680	CC	AA	1946819179
SNP_P4_56669_35431816	NC_021163.1	Ca_kabuli_chr04	35431816	CC	TT	1946819181
SNP_P4_56670_35431897	NC_021163.1	Ca_kabuli_chr04	35431897	AA	CC	1946819183
SNP_P4_56671_35431910	NC_021163.1	Ca_kabuli_chr04	35431910	AA	GG	1946819185
SNP_P4_56672_35431944	NC_021163.1	Ca_kabuli_chr04	35431944	CC	AA	1946819187
SNP_P4_56673_35431977	NC_021163.1	Ca_kabuli_chr04	35431977	TT	CC	1946819189
SNP_P4_56674_35431995	NC_021163.1	Ca_kabuli_chr04	35431995	CC	TT	1946819191
SNP_P4_56676_35432022	NC_021163.1	Ca_kabuli_chr04	35432022	GG	AA	1946819193
SNP_P4_56677_35432082	NC_021163.1	Ca_kabuli_chr04	35432082	GG	AA	1946819195
SNP_P4_56678_35432335	NC_021163.1	Ca_kabuli_chr04	35432335	AA	GG	1946819197
SNP_P4_56679_35432465	NC_021163.1	Ca_kabuli_chr04	35432465	GG	AA	1946819199
SNP_P4_56680_35432506	NC_021163.1	Ca_kabuli_chr04	35432506	TT	CC	1946819201
SNP_P4_56681_35432513	NC_021163.1	Ca_kabuli_chr04	35432513	GG	CC	1946819204
SNP_P4_56682_35432547	NC_021163.1	Ca_kabuli_chr04	35432547	TT	CC	1946819206
SNP_P4_56683_35432552	NC_021163.1	Ca_kabuli_chr04	35432552	GG	AA	1946819208
SNP_P4_56684_35432589	NC_021163.1	Ca_kabuli_chr04	35432589	AA	GG	1946819210
SNP_P4_56685_35432599	NC_021163.1	Ca_kabuli_chr04	35432599	GG	TT	1946819212
SNP_P4_56686_35432683	NC_021163.1	Ca_kabuli_chr04	35432683	TT	GG	1946819214
SNP_P4_56687_35432763	NC_021163.1	Ca_kabuli_chr04	35432763	TT	GG	1946819216
SNP_P4_56688_35432814	NC_021163.1	Ca_kabuli_chr04	35432814	CC	TT	1946819218
SNP_P4_56689_35432824	NC_021163.1	Ca_kabuli_chr04	35432824	GG	AA	1946819220
SNP_P4_56691_35432884	NC_021163.1	Ca_kabuli_chr04	35432884	TT	GG	1946819222
SNP_P4_56693_35433183	NC_021163.1	Ca_kabuli_chr04	35433183	GG	TT	1946819224
SNP_P4_56695_35433358	NC_021163.1	Ca_kabuli_chr04	35433358	AA	TT	1946819227
SNP_P4_56696_35433360	NC_021163.1	Ca_kabuli_chr04	35433360	TT	CC	1946819229
SNP_P4_56698_35446156	NC_021163.1	Ca_kabuli_chr04	35446156	TT	AA	1946819231
SNP_P4_56699_35450940	NC_021163.1	Ca_kabuli_chr04	35450940	AA	GG	1946819233
SNP_P4_56700_35453631	NC_021163.1	Ca_kabuli_chr04	35453631	GG	AA	1946819235
SNP_P4_56701_35454842	NC_021163.1	Ca_kabuli_chr04	35454842	CC	AA	1946819237
SNP_P4_56702_35454883	NC_021163.1	Ca_kabuli_chr04	35454883	CC	AA	1946819239
SNP_P4_56703_35455062	NC_021163.1	Ca_kabuli_chr04	35455062	TT	AA	1946819241
SNP_P4_56704_35455218	NC_021163.1	Ca_kabuli_chr04	35455218	CC	TT	1946819243
SNP_P4_56705_35455648	NC_021163.1	Ca_kabuli_chr04	35455648	CC	TT	1946819245

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_56708_35457119	NC_021163.1	Ca_kabuli_chr04	35457119	TT	AA	1946819249
SNP_P4_56709_35457161	NC_021163.1	Ca_kabuli_chr04	35457161	GG	TT	1946819252
SNP_P4_56710_35457303	NC_021163.1	Ca_kabuli_chr04	35457303	GG	AA	1946819254
SNP_P4_56711_35457316	NC_021163.1	Ca_kabuli_chr04	35457316	TT	CC	1946819256
SNP_P4_56712_35457511	NC_021163.1	Ca_kabuli_chr04	35457511	CC	GG	1946819258
SNP_P4_56713_35461251	NC_021163.1	Ca_kabuli_chr04	35461251	TT	CC	1946819260
SNP_P4_56714_35462130	NC_021163.1	Ca_kabuli_chr04	35462130	TT	AA	1946819262
SNP_P4_56715_35469224	NC_021163.1	Ca_kabuli_chr04	35469224	TT	CC	1946819264
SNP_P4_56716_35469304	NC_021163.1	Ca_kabuli_chr04	35469304	GG	AA	1946819266
SNP_P4_56717_35469394	NC_021163.1	Ca_kabuli_chr04	35469394	CC	TT	1946819268
SNP_P4_56718_35469506	NC_021163.1	Ca_kabuli_chr04	35469506	CC	TT	1946819270
SNP_P4_56719_35469609	NC_021163.1	Ca_kabuli_chr04	35469609	CC	TT	1946819272
SNP_P4_56720_35469667	NC_021163.1	Ca_kabuli_chr04	35469667	AA	CC	1946819274
SNP_P4_56721_35469740	NC_021163.1	Ca_kabuli_chr04	35469740	AA	TT	1946819276
SNP_P4_56722_35469741	NC_021163.1	Ca_kabuli_chr04	35469741	TT	GG	1946819278
SNP_P4_56723_35469851	NC_021163.1	Ca_kabuli_chr04	35469851	GG	AA	1946819280
SNP_P4_56724_35469868	NC_021163.1	Ca_kabuli_chr04	35469868	GG	AA	1946819282
SNP_P4_56725_35469894	NC_021163.1	Ca_kabuli_chr04	35469894	AA	TT	1946819284
SNP_P4_56726_35469930	NC_021163.1	Ca_kabuli_chr04	35469930	AA	TT	1946819286
SNP_P4_56727_35469972	NC_021163.1	Ca_kabuli_chr04	35469972	GG	AA	1946819288
SNP_P4_56728_35470016	NC_021163.1	Ca_kabuli_chr04	35470016	AA	GG	1946819290
SNP_P4_56729_35470027	NC_021163.1	Ca_kabuli_chr04	35470027	CC	TT	1946819292
SNP_P4_56730_35470103	NC_021163.1	Ca_kabuli_chr04	35470103	TT	AA	1946819294
SNP_P4_56731_35470158	NC_021163.1	Ca_kabuli_chr04	35470158	GG	CC	1946819296
SNP_P4_56732_35470160	NC_021163.1	Ca_kabuli_chr04	35470160	TT	CC	1946819298
SNP_P4_56733_35470167	NC_021163.1	Ca_kabuli_chr04	35470167	CC	TT	1946819300
SNP_P4_56734_35470186	NC_021163.1	Ca_kabuli_chr04	35470186	TT	CC	1946819302
SNP_P4_56735_35470200	NC_021163.1	Ca_kabuli_chr04	35470200	CC	TT	1946819304
SNP_P4_56736_35470241	NC_021163.1	Ca_kabuli_chr04	35470241	GG	AA	1946819306
SNP_P4_56737_35470291	NC_021163.1	Ca_kabuli_chr04	35470291	GG	AA	1946819308
SNP_P4_56738_35470304	NC_021163.1	Ca_kabuli_chr04	35470304	TT	CC	1946819310
SNP_P4_56739_35470319	NC_021163.1	Ca_kabuli_chr04	35470319	GG	AA	1946819312
SNP_P4_56740_35477528	NC_021163.1	Ca_kabuli_chr04	35477528	TT	GG	1946819314
SNP_P4_56741_35486535	NC_021163.1	Ca_kabuli_chr04	35486535	GG	TT	1946819316
SNP_P4_56742_35486602	NC_021163.1	Ca_kabuli_chr04	35486602	TT	AA	1946819318
SNP_P4_56743_35487121	NC_021163.1	Ca_kabuli_chr04	35487121	GG	AA	1946819320
SNP_P4_56744_35490885	NC_021163.1	Ca_kabuli_chr04	35490885	CC	TT	1946819322
SNP_P4_56745_35511787	NC_021163.1	Ca_kabuli_chr04	35511787	TT	CC	1946819324
SNP_P4_56746_35511830	NC_021163.1	Ca_kabuli_chr04	35511830	TT	CC	1946819326
SNP_P4_56747_35511845	NC_021163.1	Ca_kabuli_chr04	35511845	GG	AA	1946819328
SNP_P4_56748_35511873	NC_021163.1	Ca_kabuli_chr04	35511873	TT	CC	1946819330

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_56750_35512169	NC_021163.1	Ca_kabuli_chr04	35512169	CC	GG	1946819335
SNP_P4_56751_35512303	NC_021163.1	Ca_kabuli_chr04	35512303	GG	AA	1946819337
SNP_P4_56752_35512312	NC_021163.1	Ca_kabuli_chr04	35512312	CC	AA	1946819339
SNP_P4_56753_35512474	NC_021163.1	Ca_kabuli_chr04	35512474	CC	AA	1946819341
SNP_P4_56754_35521739	NC_021163.1	Ca_kabuli_chr04	35521739	AA	TT	1946819343
SNP_P4_56755_35521740	NC_021163.1	Ca_kabuli_chr04	35521740	TT	AA	1946819345
SNP_P4_56756_35563436	NC_021163.1	Ca_kabuli_chr04	35563436	AA	CC	1946819347
SNP_P4_56757_35563462	NC_021163.1	Ca_kabuli_chr04	35563462	CC	AA	1946819349
SNP_P4_56758_35563515	NC_021163.1	Ca_kabuli_chr04	35563515	TT	CC	1946819351
SNP_P4_56759_35567519	NC_021163.1	Ca_kabuli_chr04	35567519	GG	AA	1946819353
SNP_P4_56760_35580332	NC_021163.1	Ca_kabuli_chr04	35580332	TT	GG	1946819355
SNP_P4_56761_35580336	NC_021163.1	Ca_kabuli_chr04	35580336	AA	GG	1946819357
SNP_P4_56762_35597845	NC_021163.1	Ca_kabuli_chr04	35597845	CC	AA	1946819359
SNP_P4_56763_35600793	NC_021163.1	Ca_kabuli_chr04	35600793	CC	TT	1946819361
SNP_P4_56764_35600897	NC_021163.1	Ca_kabuli_chr04	35600897	CC	AA	1946819363
SNP_P4_56765_35609724	NC_021163.1	Ca_kabuli_chr04	35609724	GG	AA	1946819365
SNP_P4_56766_35610487	NC_021163.1	Ca_kabuli_chr04	35610487	TT	CC	1946819367
SNP_P4_56767_35610516	NC_021163.1	Ca_kabuli_chr04	35610516	TT	GG	1946819369
SNP_P4_56768_35610743	NC_021163.1	Ca_kabuli_chr04	35610743	AA	CC	1946819371
SNP_P4_56769_35610766	NC_021163.1	Ca_kabuli_chr04	35610766	TT	CC	1946819373
SNP_P4_56770_35610772	NC_021163.1	Ca_kabuli_chr04	35610772	GG	TT	1946819375
SNP_P4_56771_35615862	NC_021163.1	Ca_kabuli_chr04	35615862	TT	CC	1946819377
SNP_P4_56772_35615895	NC_021163.1	Ca_kabuli_chr04	35615895	AA	GG	1946819379
SNP_P4_56773_35615912	NC_021163.1	Ca_kabuli_chr04	35615912	TT	GG	1946819382
SNP_P4_56774_35615979	NC_021163.1	Ca_kabuli_chr04	35615979	GG	AA	1946819384
SNP_P4_56775_35616071	NC_021163.1	Ca_kabuli_chr04	35616071	TT	CC	1946819386
SNP_P4_56776_35616382	NC_021163.1	Ca_kabuli_chr04	35616382	AA	CC	1946819388
SNP_P4_56777_35616719	NC_021163.1	Ca_kabuli_chr04	35616719	TT	CC	1946819390
SNP_P4_56778_35616725	NC_021163.1	Ca_kabuli_chr04	35616725	CC	AA	1946819392
SNP_P4_56779_35616749	NC_021163.1	Ca_kabuli_chr04	35616749	GG	AA	1946819394
SNP_P4_56780_35616942	NC_021163.1	Ca_kabuli_chr04	35616942	CC	AA	1946819396
SNP_P4_56781_35617089	NC_021163.1	Ca_kabuli_chr04	35617089	GG	CC	1946819398
SNP_P4_56782_35617112	NC_021163.1	Ca_kabuli_chr04	35617112	AA	GG	1946819400
SNP_P4_56783_35617119	NC_021163.1	Ca_kabuli_chr04	35617119	AA	GG	1946819402
SNP_P4_56784_35617122	NC_021163.1	Ca_kabuli_chr04	35617122	TT	CC	1946819404
SNP_P4_56785_35617155	NC_021163.1	Ca_kabuli_chr04	35617155	CC	TT	1946819406
SNP_P4_56786_35617195	NC_021163.1	Ca_kabuli_chr04	35617195	TT	CC	1946819408
SNP_P4_56787_35617252	NC_021163.1	Ca_kabuli_chr04	35617252	GG	AA	1946819410
SNP_P4_56788_35617354	NC_021163.1	Ca_kabuli_chr04	35617354	TT	AA	1946819412
SNP_P4_56789_35617372	NC_021163.1	Ca_kabuli_chr04	35617372	CC	AA	1946819414
SNP_P4_56790_35617377	NC_021163.1	Ca_kabuli_chr04	35617377	CC	AA	1946819416

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_56792_35626157	NC_021163.1	Ca_kabuli_chr04	35626157	GG	AA	1946819421
SNP_P4_56793_35628213	NC_021163.1	Ca_kabuli_chr04	35628213	CC	TT	1946819423
SNP_P4_56794_35628813	NC_021163.1	Ca_kabuli_chr04	35628813	TT	GG	1946819425
SNP_P4_56795_35628815	NC_021163.1	Ca_kabuli_chr04	35628815	AA	CC	1946819427
SNP_P4_56796_35629151	NC_021163.1	Ca_kabuli_chr04	35629151	GG	TT	1946819429
SNP_P4_56797_35629680	NC_021163.1	Ca_kabuli_chr04	35629680	AA	TT	1946819431
SNP_P4_56798_35643538	NC_021163.1	Ca_kabuli_chr04	35643538	CC	TT	1946819433
SNP_P4_56800_35691584	NC_021163.1	Ca_kabuli_chr04	35691584	CC	TT	1946819435
SNP_P4_56801_35691657	NC_021163.1	Ca_kabuli_chr04	35691657	CC	AA	1946819437
SNP_P4_56802_35691710	NC_021163.1	Ca_kabuli_chr04	35691710	CC	GG	1946819439
SNP_P4_56803_35695333	NC_021163.1	Ca_kabuli_chr04	35695333	TT	GG	1946819442
SNP_P4_56804_35695354	NC_021163.1	Ca_kabuli_chr04	35695354	GG	AA	1946819444
SNP_P4_56805_35695400	NC_021163.1	Ca_kabuli_chr04	35695400	CC	AA	1946819446
SNP_P4_56806_35695427	NC_021163.1	Ca_kabuli_chr04	35695427	TT	AA	1946819448
SNP_P4_56807_35695729	NC_021163.1	Ca_kabuli_chr04	35695729	TT	GG	1946819450
SNP_P4_56808_35695794	NC_021163.1	Ca_kabuli_chr04	35695794	GG	AA	1946819452
SNP_P4_56809_35700975	NC_021163.1	Ca_kabuli_chr04	35700975	TT	CC	1946819454
SNP_P4_56810_35708706	NC_021163.1	Ca_kabuli_chr04	35708706	CC	TT	1946819456
SNP_P4_56811_35708734	NC_021163.1	Ca_kabuli_chr04	35708734	AA	GG	1946819458
SNP_P4_56812_35708738	NC_021163.1	Ca_kabuli_chr04	35708738	GG	AA	1946819460
SNP_P4_56813_35711966	NC_021163.1	Ca_kabuli_chr04	35711966	TT	GG	1946819462
SNP_P4_56814_35711998	NC_021163.1	Ca_kabuli_chr04	35711998	TT	GG	1946819464
SNP_P4_56815_35712317	NC_021163.1	Ca_kabuli_chr04	35712317	AA	GG	1946819466
SNP_P4_56816_35712329	NC_021163.1	Ca_kabuli_chr04	35712329	AA	GG	1946819468
SNP_P4_56817_35712394	NC_021163.1	Ca_kabuli_chr04	35712394	AA	CC	1946819470
SNP_P4_56818_35723244	NC_021163.1	Ca_kabuli_chr04	35723244	CC	AA	1946819472
SNP_P4_56819_35728180	NC_021163.1	Ca_kabuli_chr04	35728180	GG	AA	1946819474
SNP_P4_56820_35740717	NC_021163.1	Ca_kabuli_chr04	35740717	CC	TT	1946819476
SNP_P4_56821_35762731	NC_021163.1	Ca_kabuli_chr04	35762731	TT	CC	1946819478
SNP_P4_56822_35768413	NC_021163.1	Ca_kabuli_chr04	35768413	AA	TT	1946819480
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SNP_P4_56824_35779968	NC_021163.1	Ca_kabuli_chr04	35779968	TT	AA	1946819484
SNP_P4_56825_35779972	NC_021163.1	Ca_kabuli_chr04	35779972	AA	TT	1946819486
SNP_P4_56826_35780031	NC_021163.1	Ca_kabuli_chr04	35780031	AA	GG	1946819488
SNP_P4_56827_35780209	NC_021163.1	Ca_kabuli_chr04	35780209	TT	CC	1946819490
SNP_P4_56828_35780234	NC_021163.1	Ca_kabuli_chr04	35780234	CC	AA	1946819492
SNP_P4_56829_35780302	NC_021163.1	Ca_kabuli_chr04	35780302	TT	AA	1946819494
SNP_P4_56830_35780428	NC_021163.1	Ca_kabuli_chr04	35780428	GG	AA	1946819496
SNP_P4_56831_35780505	NC_021163.1	Ca_kabuli_chr04	35780505	GG	AA	1946819498
SNP_P4_56832_35780538	NC_021163.1	Ca_kabuli_chr04	35780538	CC	TT	1946819500
SNP_P4_56833_35791340	NC_021163.1	Ca_kabuli_chr04	35791340	CC	GG	1946819502

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_56835_35791567	NC_021163.1	Ca_kabuli_chr04	35791567	AA	TT	1946819507
SNP_P4_56836_35791676	NC_021163.1	Ca_kabuli_chr04	35791676	GG	CC	1946819509
SNP_P4_56837_35791756	NC_021163.1	Ca_kabuli_chr04	35791756	TT	AA	1946819511
SNP_P4_56838_35791774	NC_021163.1	Ca_kabuli_chr04	35791774	TT	AA	1946819513
SNP_P4_56839_35791781	NC_021163.1	Ca_kabuli_chr04	35791781	AA	TT	1946819515
SNP_P4_56840_35791839	NC_021163.1	Ca_kabuli_chr04	35791839	TT	CC	1946819517
SNP_P4_56841_35791840	NC_021163.1	Ca_kabuli_chr04	35791840	GG	AA	1946819519
SNP_P4_56842_35792129	NC_021163.1	Ca_kabuli_chr04	35792129	AA	TT	1946819521
SNP_P4_56843_35792208	NC_021163.1	Ca_kabuli_chr04	35792208	GG	AA	1946819523
SNP_P4_56844_35793320	NC_021163.1	Ca_kabuli_chr04	35793320	AA	TT	1946819525
SNP_P4_56845_35793474	NC_021163.1	Ca_kabuli_chr04	35793474	GG	AA	1946819527
SNP_P4_56846_35793809	NC_021163.1	Ca_kabuli_chr04	35793809	CC	GG	1946819529
SNP_P4_56847_35796585	NC_021163.1	Ca_kabuli_chr04	35796585	GG	AA	1946819531
SNP_P4_56848_35798271	NC_021163.1	Ca_kabuli_chr04	35798271	CC	TT	1946819532
SNP_P4_56849_35798285	NC_021163.1	Ca_kabuli_chr04	35798285	AA	TT	1946819534
SNP_P4_56850_35798391	NC_021163.1	Ca_kabuli_chr04	35798391	CC	AA	1946819536
SNP_P4_56851_35798427	NC_021163.1	Ca_kabuli_chr04	35798427	TT	AA	1946819538
SNP_P4_56852_35798514	NC_021163.1	Ca_kabuli_chr04	35798514	TT	GG	1946819540
SNP_P4_56853_35802496	NC_021163.1	Ca_kabuli_chr04	35802496	AA	GG	1946819542
SNP_P4_56854_35803664	NC_021163.1	Ca_kabuli_chr04	35803664	GG	AA	1946819544
SNP_P4_56855_35803666	NC_021163.1	Ca_kabuli_chr04	35803666	AA	GG	1946819546
SNP_P4_56856_35808010	NC_021163.1	Ca_kabuli_chr04	35808010	AA	TT	1946819548
SNP_P4_56857_35808011	NC_021163.1	Ca_kabuli_chr04	35808011	TT	AA	1946819550
SNP_P4_56859_35819027	NC_021163.1	Ca_kabuli_chr04	35819027	CC	TT	1946819552
SNP_P4_56860_35819088	NC_021163.1	Ca_kabuli_chr04	35819088	AA	GG	1946819554
SNP_P4_56861_35819162	NC_021163.1	Ca_kabuli_chr04	35819162	TT	GG	1946819556
SNP_P4_56862_35819233	NC_021163.1	Ca_kabuli_chr04	35819233	TT	CC	1946819558
SNP_P4_56863_35819523	NC_021163.1	Ca_kabuli_chr04	35819523	GG	TT	1946819560
SNP_P4_56864_35819525	NC_021163.1	Ca_kabuli_chr04	35819525	TT	CC	1946819563
SNP_P4_56865_35822286	NC_021163.1	Ca_kabuli_chr04	35822286	CC	TT	1946819565
SNP_P4_56866_35822336	NC_021163.1	Ca_kabuli_chr04	35822336	AA	GG	1946819567
SNP_P4_56868_35828698	NC_021163.1	Ca_kabuli_chr04	35828698	TT	GG	1946819569
SNP_P4_56869_35828742	NC_021163.1	Ca_kabuli_chr04	35828742	AA	CC	1946819571
SNP_P4_56870_35828798	NC_021163.1	Ca_kabuli_chr04	35828798	AA	GG	1946819574
SNP_P4_56871_35828819	NC_021163.1	Ca_kabuli_chr04	35828819	AA	CC	1946819577
SNP_P4_56872_35828919	NC_021163.1	Ca_kabuli_chr04	35828919	CC	TT	1946819579
SNP_P4_56873_35828930	NC_021163.1	Ca_kabuli_chr04	35828930	GG	AA	1946819581
SNP_P4_56874_35828974	NC_021163.1	Ca_kabuli_chr04	35828974	CC	TT	1946819583
SNP_P4_56875_35829015	NC_021163.1	Ca_kabuli_chr04	35829015	TT	CC	1946819585
SNP_P4_56876_35831323	NC_021163.1	Ca_kabuli_chr04	35831323	CC	TT	1946819587
SNP_P4_56877_35831365	NC_021163.1	Ca_kabuli_chr04	35831365	AA	CC	1946819589

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_56879_35876200	NC_021163.1	Ca_kabuli_chr04	35876200	GG	AA	1946819593
SNP_P4_56880_35876201	NC_021163.1	Ca_kabuli_chr04	35876201	TT	CC	1946819595
SNP_P4_56881_35891213	NC_021163.1	Ca_kabuli_chr04	35891213	TT	GG	1946819597
SNP_P4_56882_35891229	NC_021163.1	Ca_kabuli_chr04	35891229	AA	GG	1946819599
SNP_P4_56883_35893488	NC_021163.1	Ca_kabuli_chr04	35893488	CC	TT	1946819601
SNP_P4_56884_35900757	NC_021163.1	Ca_kabuli_chr04	35900757	AA	CC	1946819603
SNP_P4_56885_35901183	NC_021163.1	Ca_kabuli_chr04	35901183	TT	GG	1946819605
SNP_P4_56888_35960557	NC_021163.1	Ca_kabuli_chr04	35960557	AA	GG	1946819607
SNP_P4_56890_35984541	NC_021163.1	Ca_kabuli_chr04	35984541	TT	AA	1946819609
SNP_P4_56891_35984560	NC_021163.1	Ca_kabuli_chr04	35984560	AA	CC	1946819611
SNP_P4_56892_36012964	NC_021163.1	Ca_kabuli_chr04	36012964	AA	TT	1946819613
SNP_P4_56893_36027244	NC_021163.1	Ca_kabuli_chr04	36027244	CC	GG	1946819615
SNP_P4_56894_36027246	NC_021163.1	Ca_kabuli_chr04	36027246	TT	GG	1946819617
SNP_P4_56895_36052421	NC_021163.1	Ca_kabuli_chr04	36052421	AA	GG	1946819619
SNP_P4_56896_36065567	NC_021163.1	Ca_kabuli_chr04	36065567	GG	CC	1946819621
SNP_P4_56897_36068793	NC_021163.1	Ca_kabuli_chr04	36068793	AA	CC	1946819623
SNP_P4_56898_36068835	NC_021163.1	Ca_kabuli_chr04	36068835	AA	GG	1946819625
SNP_P4_56900_36079188	NC_021163.1	Ca_kabuli_chr04	36079188	GG	AA	1946819627
SNP_P4_56901_36079331	NC_021163.1	Ca_kabuli_chr04	36079331	CC	AA	1946819629
SNP_P4_56902_36079340	NC_021163.1	Ca_kabuli_chr04	36079340	GG	AA	1946819631
SNP_P4_56903_36079543	NC_021163.1	Ca_kabuli_chr04	36079543	CC	TT	1946819633
SNP_P4_56904_36079554	NC_021163.1	Ca_kabuli_chr04	36079554	CC	TT	1946819635
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SNP_P4_56907_36096096	NC_021163.1	Ca_kabuli_chr04	36096096	CC	TT	1946819639
SNP_P4_56908_36098975	NC_021163.1	Ca_kabuli_chr04	36098975	CC	TT	1946819641
SNP_P4_56909_36099025	NC_021163.1	Ca_kabuli_chr04	36099025	GG	AA	1946819643
SNP_P4_56910_36099075	NC_021163.1	Ca_kabuli_chr04	36099075	TT	GG	1946819645
SNP_P4_56911_36099100	NC_021163.1	Ca_kabuli_chr04	36099100	TT	AA	1946819647
SNP_P4_56912_36099425	NC_021163.1	Ca_kabuli_chr04	36099425	TT	CC	1946819649
SNP_P4_56913_36106762	NC_021163.1	Ca_kabuli_chr04	36106762	AA	CC	1946819651
SNP_P4_56914_36118930	NC_021163.1	Ca_kabuli_chr04	36118930	GG	TT	1946819652
SNP_P4_56915_36118936	NC_021163.1	Ca_kabuli_chr04	36118936	GG	TT	1946819654
SNP_P4_56916_36118947	NC_021163.1	Ca_kabuli_chr04	36118947	CC	AA	1946819656
SNP_P4_56917_36118948	NC_021163.1	Ca_kabuli_chr04	36118948	CC	TT	1946819658
SNP_P4_56918_36118965	NC_021163.1	Ca_kabuli_chr04	36118965	CC	TT	1946819660
SNP_P4_56919_36129045	NC_021163.1	Ca_kabuli_chr04	36129045	AA	GG	1946819662
SNP_P4_56920_36138268	NC_021163.1	Ca_kabuli_chr04	36138268	GG	TT	1946819664
SNP_P4_56922_36140244	NC_021163.1	Ca_kabuli_chr04	36140244	TT	CC	1946819666
SNP_P4_56923_36189697	NC_021163.1	Ca_kabuli_chr04	36189697	GG	AA	1946819668
SNP_P4_56925_36235387	NC_021163.1	Ca_kabuli_chr04	36235387	TT	CC	1946819670
SNP_P4_56928_36249973	NC_021163.1	Ca_kabuli_chr04	36249973	TT	CC	1946819672

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_56930_36269066	NC_021163.1	Ca_kabuli_chr04	36269066	GG	AA	1946819676
SNP_P4_56931_36291048	NC_021163.1	Ca_kabuli_chr04	36291048	GG	AA	1946819678
SNP_P4_56932_36299798	NC_021163.1	Ca_kabuli_chr04	36299798	GG	AA	1946819680
SNP_P4_56933_36300103	NC_021163.1	Ca_kabuli_chr04	36300103	TT	CC	1946819682
SNP_P4_56934_36300176	NC_021163.1	Ca_kabuli_chr04	36300176	AA	GG	1946819684
SNP_P4_56935_36300222	NC_021163.1	Ca_kabuli_chr04	36300222	AA	GG	1946819686
SNP_P4_56936_36334952	NC_021163.1	Ca_kabuli_chr04	36334952	AA	GG	1946819688
SNP_P4_56937_36334981	NC_021163.1	Ca_kabuli_chr04	36334981	CC	TT	1946819690
SNP_P4_56938_36335023	NC_021163.1	Ca_kabuli_chr04	36335023	TT	AA	1946819692
SNP_P4_56939_36335061	NC_021163.1	Ca_kabuli_chr04	36335061	GG	AA	1946819694
SNP_P4_56940_36335296	NC_021163.1	Ca_kabuli_chr04	36335296	CC	TT	1946819696
SNP_P4_56942_36335399	NC_021163.1	Ca_kabuli_chr04	36335399	TT	CC	1946819698
SNP_P4_56943_36335840	NC_021163.1	Ca_kabuli_chr04	36335840	TT	GG	1946819700
SNP_P4_56944_36335873	NC_021163.1	Ca_kabuli_chr04	36335873	CC	TT	1946819702
SNP_P4_56945_36335983	NC_021163.1	Ca_kabuli_chr04	36335983	TT	CC	1946819704
SNP_P4_56946_36336016	NC_021163.1	Ca_kabuli_chr04	36336016	CC	AA	1946819706
SNP_P4_56947_36336040	NC_021163.1	Ca_kabuli_chr04	36336040	CC	TT	1946819708
SNP_P4_56948_36336043	NC_021163.1	Ca_kabuli_chr04	36336043	AA	GG	1946819710
SNP_P4_56949_36336049	NC_021163.1	Ca_kabuli_chr04	36336049	AA	TT	1946819712
SNP_P4_56950_36336059	NC_021163.1	Ca_kabuli_chr04	36336059	CC	TT	1946819714
SNP_P4_56951_36336107	NC_021163.1	Ca_kabuli_chr04	36336107	TT	CC	1946819716
SNP_P4_56952_36336201	NC_021163.1	Ca_kabuli_chr04	36336201	CC	TT	1946819718
SNP_P4_56953_36336220	NC_021163.1	Ca_kabuli_chr04	36336220	CC	TT	1946819720
SNP_P4_56954_36336701	NC_021163.1	Ca_kabuli_chr04	36336701	GG	AA	1946819722
SNP_P4_56955_36336712	NC_021163.1	Ca_kabuli_chr04	36336712	TT	AA	1946819724
SNP_P4_56956_36336741	NC_021163.1	Ca_kabuli_chr04	36336741	TT	CC	1946819726
SNP_P4_56957_36336755	NC_021163.1	Ca_kabuli_chr04	36336755	CC	GG	1946819728
SNP_P4_56958_36336872	NC_021163.1	Ca_kabuli_chr04	36336872	GG	AA	1946819730
SNP_P4_56960_36336927	NC_021163.1	Ca_kabuli_chr04	36336927	CC	AA	1946819732
SNP_P4_56961_36336951	NC_021163.1	Ca_kabuli_chr04	36336951	CC	TT	1946819734
SNP_P4_56962_36336967	NC_021163.1	Ca_kabuli_chr04	36336967	AA	TT	1946819736
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SNP_P4_56964_36337004	NC_021163.1	Ca_kabuli_chr04	36337004	AA	GG	1946819740
SNP_P4_56965_36337010	NC_021163.1	Ca_kabuli_chr04	36337010	CC	TT	1946819742
SNP_P4_56966_36337106	NC_021163.1	Ca_kabuli_chr04	36337106	AA	GG	1946819744
SNP_P4_56967_36337115	NC_021163.1	Ca_kabuli_chr04	36337115	AA	GG	1946819746
SNP_P4_56969_36337230	NC_021163.1	Ca_kabuli_chr04	36337230	GG	AA	1946819748
SNP_P4_56971_36337313	NC_021163.1	Ca_kabuli_chr04	36337313	AA	GG	1946819750
SNP_P4_56972_36337318	NC_021163.1	Ca_kabuli_chr04	36337318	CC	GG	1946819752
SNP_P4_56974_36342440	NC_021163.1	Ca_kabuli_chr04	36342440	TT	GG	1946819754
SNP_P4_56975_36342450	NC_021163.1	Ca_kabuli_chr04	36342450	GG	AA	1946819756

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_56977_36342572	NC_021163.1	Ca_kabuli_chr04	36342572	AA	CC	1946819760
SNP_P4_56978_36342735	NC_021163.1	Ca_kabuli_chr04	36342735	CC	TT	1946819762
SNP_P4_56979_36342800	NC_021163.1	Ca_kabuli_chr04	36342800	AA	CC	1946819764
SNP_P4_56980_36375830	NC_021163.1	Ca_kabuli_chr04	36375830	GG	TT	1946819765
SNP_P4_56981_36377192	NC_021163.1	Ca_kabuli_chr04	36377192	TT	CC	1946819767
SNP_P4_56982_36377385	NC_021163.1	Ca_kabuli_chr04	36377385	GG	AA	1946819769
SNP_P4_56983_36377398	NC_021163.1	Ca_kabuli_chr04	36377398	CC	AA	1946819771
SNP_P4_56984_36377401	NC_021163.1	Ca_kabuli_chr04	36377401	TT	CC	1946819773
SNP_P4_56985_36377402	NC_021163.1	Ca_kabuli_chr04	36377402	CC	AA	1946819775
SNP_P4_56986_36377453	NC_021163.1	Ca_kabuli_chr04	36377453	TT	CC	1946819777
SNP_P4_56987_36377491	NC_021163.1	Ca_kabuli_chr04	36377491	AA	GG	1946819779
SNP_P4_56989_36377577	NC_021163.1	Ca_kabuli_chr04	36377577	AA	TT	1946819781
SNP_P4_56990_36377676	NC_021163.1	Ca_kabuli_chr04	36377676	GG	CC	1946819783
SNP_P4_56991_36378808	NC_021163.1	Ca_kabuli_chr04	36378808	CC	TT	1946819785
SNP_P4_56992_36380319	NC_021163.1	Ca_kabuli_chr04	36380319	TT	CC	1946819787
SNP_P4_56993_36380548	NC_021163.1	Ca_kabuli_chr04	36380548	GG	AA	1946819789
SNP_P4_56994_36380572	NC_021163.1	Ca_kabuli_chr04	36380572	AA	GG	1946819791
SNP_P4_56995_36380583	NC_021163.1	Ca_kabuli_chr04	36380583	GG	AA	1946819793
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SNP_P4_56997_36380719	NC_021163.1	Ca_kabuli_chr04	36380719	TT	CC	1946819797
SNP_P4_56998_36380720	NC_021163.1	Ca_kabuli_chr04	36380720	AA	GG	1946819799
SNP_P4_56999_36380741	NC_021163.1	Ca_kabuli_chr04	36380741	CC	TT	1946819801
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SNP_P4_57002_36381071	NC_021163.1	Ca_kabuli_chr04	36381071	CC	TT	1946819807
SNP_P4_57003_36381097	NC_021163.1	Ca_kabuli_chr04	36381097	AA	GG	1946819809
SNP_P4_57004_36381301	NC_021163.1	Ca_kabuli_chr04	36381301	GG	AA	1946819810
SNP_P4_57005_36381303	NC_021163.1	Ca_kabuli_chr04	36381303	CC	TT	1946819812
SNP_P4_57006_36381610	NC_021163.1	Ca_kabuli_chr04	36381610	AA	GG	1946819814
SNP_P4_57007_36381642	NC_021163.1	Ca_kabuli_chr04	36381642	TT	CC	1946819816
SNP_P4_57008_36382413	NC_021163.1	Ca_kabuli_chr04	36382413	CC	TT	1946819818
SNP_P4_57009_36382457	NC_021163.1	Ca_kabuli_chr04	36382457	AA	GG	1946819820
SNP_P4_57010_36382515	NC_021163.1	Ca_kabuli_chr04	36382515	GG	AA	1946819822
SNP_P4_57011_36382575	NC_021163.1	Ca_kabuli_chr04	36382575	TT	GG	1946819824
SNP_P4_57012_36382613	NC_021163.1	Ca_kabuli_chr04	36382613	TT	CC	1946819826
SNP_P4_57013_36382615	NC_021163.1	Ca_kabuli_chr04	36382615	AA	GG	1946819828
SNP_P4_57014_36382743	NC_021163.1	Ca_kabuli_chr04	36382743	AA	GG	1946819830
SNP_P4_57015_36382786	NC_021163.1	Ca_kabuli_chr04	36382786	TT	CC	1946819832
SNP_P4_57016_36382790	NC_021163.1	Ca_kabuli_chr04	36382790	AA	GG	1946819833
SNP_P4_57017_36382791	NC_021163.1	Ca_kabuli_chr04	36382791	CC	TT	1946819835
SNP_P4_57018_36382814	NC_021163.1	Ca_kabuli_chr04	36382814	AA	GG	1946819837

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_57020_36383391	NC_021163.1	Ca_kabuli_chr04	36383391	TT	CC	1946819842
SNP_P4_57021_36383657	NC_021163.1	Ca_kabuli_chr04	36383657	AA	GG	1946819844
SNP_P4_57022_36383662	NC_021163.1	Ca_kabuli_chr04	36383662	AA	GG	1946819846
SNP_P4_57023_36383766	NC_021163.1	Ca_kabuli_chr04	36383766	GG	TT	1946819848
SNP_P4_57024_36383771	NC_021163.1	Ca_kabuli_chr04	36383771	TT	GG	1946819850
SNP_P4_57025_36384928	NC_021163.1	Ca_kabuli_chr04	36384928	CC	GG	1946819852
SNP_P4_57026_36385083	NC_021163.1	Ca_kabuli_chr04	36385083	CC	TT	1946819854
SNP_P4_57027_36385284	NC_021163.1	Ca_kabuli_chr04	36385284	GG	TT	1946819856
SNP_P4_57028_36385326	NC_021163.1	Ca_kabuli_chr04	36385326	CC	TT	1946819858
SNP_P4_57029_36386041	NC_021163.1	Ca_kabuli_chr04	36386041	TT	CC	1946819860
SNP_P4_57030_36386046	NC_021163.1	Ca_kabuli_chr04	36386046	GG	TT	1946819862
SNP_P4_57031_36386057	NC_021163.1	Ca_kabuli_chr04	36386057	TT	GG	1946819864
SNP_P4_57032_36386069	NC_021163.1	Ca_kabuli_chr04	36386069	AA	GG	1946819866
SNP_P4_57033_36386074	NC_021163.1	Ca_kabuli_chr04	36386074	CC	TT	1946819868
SNP_P4_57034_36386613	NC_021163.1	Ca_kabuli_chr04	36386613	TT	CC	1946819870
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SNP_P4_57036_36387069	NC_021163.1	Ca_kabuli_chr04	36387069	GG	AA	1946819874
SNP_P4_57037_36387097	NC_021163.1	Ca_kabuli_chr04	36387097	AA	GG	1946819876
SNP_P4_57038_36387366	NC_021163.1	Ca_kabuli_chr04	36387366	GG	AA	1946819878
SNP_P4_57039_36387394	NC_021163.1	Ca_kabuli_chr04	36387394	GG	CC	1946819880
SNP_P4_57040_36388348	NC_021163.1	Ca_kabuli_chr04	36388348	GG	AA	1946819882
SNP_P4_57041_36388352	NC_021163.1	Ca_kabuli_chr04	36388352	TT	AA	1946819885
SNP_P4_57042_36388636	NC_021163.1	Ca_kabuli_chr04	36388636	AA	GG	1946819887
SNP_P4_57043_36388637	NC_021163.1	Ca_kabuli_chr04	36388637	GG	AA	1946819889
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SNP_P4_57048_36392841	NC_021163.1	Ca_kabuli_chr04	36392841	GG	AA	1946819895
SNP_P4_57049_36392848	NC_021163.1	Ca_kabuli_chr04	36392848	GG	AA	1946819897
SNP_P4_57050_36392851	NC_021163.1	Ca_kabuli_chr04	36392851	CC	TT	1946819899
SNP_P4_57051_36394123	NC_021163.1	Ca_kabuli_chr04	36394123	AA	CC	1946819901
SNP_P4_57052_36394189	NC_021163.1	Ca_kabuli_chr04	36394189	AA	GG	1946819903
SNP_P4_57053_36394197	NC_021163.1	Ca_kabuli_chr04	36394197	AA	TT	1946819905
SNP_P4_57054_36394296	NC_021163.1	Ca_kabuli_chr04	36394296	GG	CC	1946819907
SNP_P4_57055_36394950	NC_021163.1	Ca_kabuli_chr04	36394950	TT	CC	1946819909
SNP_P4_57056_36396717	NC_021163.1	Ca_kabuli_chr04	36396717	TT	CC	1946819911
SNP_P4_57057_36401345	NC_021163.1	Ca_kabuli_chr04	36401345	CC	TT	1946819913
SNP_P4_57058_36401348	NC_021163.1	Ca_kabuli_chr04	36401348	CC	TT	1946819915
SNP_P4_57059_36401360	NC_021163.1	Ca_kabuli_chr04	36401360	GG	TT	1946819918
SNP_P4_57060_36401378	NC_021163.1	Ca_kabuli_chr04	36401378	TT	CC	1946819920
SNP_P4_57061_36404258	NC_021163.1	Ca_kabuli_chr04	36404258	GG	AA	1946819922
SNP_P4_57062_36404283	NC_021163.1	Ca_kabuli_chr04	36404283	GG	AA	1946819924

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_57067_36408157	NC_021163.1	Ca_kabuli_chr04	36408157	GG	AA	1946819930
SNP_P4_57068_36408180	NC_021163.1	Ca_kabuli_chr04	36408180	TT	AA	1946819932
SNP_P4_57069_36408319	NC_021163.1	Ca_kabuli_chr04	36408319	AA	GG	1946819934
SNP_P4_57070_36408330	NC_021163.1	Ca_kabuli_chr04	36408330	TT	AA	1946819936
SNP_P4_57071_36408348	NC_021163.1	Ca_kabuli_chr04	36408348	GG	AA	1946819938
SNP_P4_57072_36408380	NC_021163.1	Ca_kabuli_chr04	36408380	TT	CC	1946819940
SNP_P4_57073_36408383	NC_021163.1	Ca_kabuli_chr04	36408383	CC	GG	1946819942
SNP_P4_57074_36408619	NC_021163.1	Ca_kabuli_chr04	36408619	AA	CC	1946819944
SNP_P4_57075_36408641	NC_021163.1	Ca_kabuli_chr04	36408641	AA	GG	1946819946
SNP_P4_57076_36408649	NC_021163.1	Ca_kabuli_chr04	36408649	AA	CC	1946819949
SNP_P4_57077_36408727	NC_021163.1	Ca_kabuli_chr04	36408727	GG	TT	1946819951
SNP_P4_57078_36408770	NC_021163.1	Ca_kabuli_chr04	36408770	GG	TT	1946819953
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SNP_P4_57080_36408834	NC_021163.1	Ca_kabuli_chr04	36408834	CC	TT	1946819955
SNP_P4_57081_36408842	NC_021163.1	Ca_kabuli_chr04	36408842	TT	CC	1946819956
SNP_P4_57082_36409091	NC_021163.1	Ca_kabuli_chr04	36409091	AA	TT	1946819957
SNP_P4_57083_36409113	NC_021163.1	Ca_kabuli_chr04	36409113	AA	GG	1946819959
SNP_P4_57084_36409429	NC_021163.1	Ca_kabuli_chr04	36409429	GG	TT	1946819961
SNP_P4_57085_36409509	NC_021163.1	Ca_kabuli_chr04	36409509	CC	TT	1946819963
SNP_P4_57086_36409745	NC_021163.1	Ca_kabuli_chr04	36409745	TT	GG	1946819966
SNP_P4_57087_36410139	NC_021163.1	Ca_kabuli_chr04	36410139	AA	GG	1946819968
SNP_P4_57088_36410369	NC_021163.1	Ca_kabuli_chr04	36410369	AA	TT	1946819970
SNP_P4_57089_36410515	NC_021163.1	Ca_kabuli_chr04	36410515	CC	TT	1946819972
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SNP_P4_57091_36412078	NC_021163.1	Ca_kabuli_chr04	36412078	CC	GG	1946819976
SNP_P4_57092_36413407	NC_021163.1	Ca_kabuli_chr04	36413407	AA	GG	1946819978
SNP_P4_57093_36413421	NC_021163.1	Ca_kabuli_chr04	36413421	TT	GG	1946819980
SNP_P4_57094_36413627	NC_021163.1	Ca_kabuli_chr04	36413627	CC	TT	1946819982
SNP_P4_57095_36413644	NC_021163.1	Ca_kabuli_chr04	36413644	TT	CC	1946819984
SNP_P4_57096_36413647	NC_021163.1	Ca_kabuli_chr04	36413647	AA	GG	1946819986
SNP_P4_57097_36413658	NC_021163.1	Ca_kabuli_chr04	36413658	CC	GG	1946819988
SNP_P4_57098_36413670	NC_021163.1	Ca_kabuli_chr04	36413670	AA	CC	1946819990
SNP_P4_57099_36413717	NC_021163.1	Ca_kabuli_chr04	36413717	GG	AA	1946819992
SNP_P4_57100_36413718	NC_021163.1	Ca_kabuli_chr04	36413718	GG	AA	1946819994
SNP_P4_57101_36419212	NC_021163.1	Ca_kabuli_chr04	36419212	AA	TT	1946819996
SNP_P4_57102_36419216	NC_021163.1	Ca_kabuli_chr04	36419216	TT	AA	1946819998
SNP_P4_57104_36419469	NC_021163.1	Ca_kabuli_chr04	36419469	TT	AA	1946820000
SNP_P4_57105_36419482	NC_021163.1	Ca_kabuli_chr04	36419482	CC	GG	1946820002
SNP_P4_57106_36419511	NC_021163.1	Ca_kabuli_chr04	36419511	AA	CC	1946820004
SNP_P4_57107_36419531	NC_021163.1	Ca_kabuli_chr04	36419531	AA	TT	1946820006

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_57108_36419627	NC_021163.1	Ca_kabuli_chr04	36419627	AA	CC	1946820008
SNP_P4_57110_36420908	NC_021163.1	Ca_kabuli_chr04	36420908	CC	TT	1946820010
SNP_P4_57111_36420911	NC_021163.1	Ca_kabuli_chr04	36420911	CC	AA	1946820012
SNP_P4_57112_36422404	NC_021163.1	Ca_kabuli_chr04	36422404	AA	TT	1946820014
SNP_P4_57113_36422532	NC_021163.1	Ca_kabuli_chr04	36422532	GG	AA	1946820016
SNP_P4_57114_36422537	NC_021163.1	Ca_kabuli_chr04	36422537	GG	TT	1946820018
SNP_P4_57115_36422697	NC_021163.1	Ca_kabuli_chr04	36422697	GG	TT	1946820020
SNP_P4_57116_36423045	NC_021163.1	Ca_kabuli_chr04	36423045	AA	GG	1946820022
SNP_P4_57117_36423055	NC_021163.1	Ca_kabuli_chr04	36423055	TT	CC	1946820024
SNP_P4_57118_36423398	NC_021163.1	Ca_kabuli_chr04	36423398	CC	GG	1946820026
SNP_P4_57119_36424126	NC_021163.1	Ca_kabuli_chr04	36424126	AA	GG	1946820028
SNP_P4_57120_36424181	NC_021163.1	Ca_kabuli_chr04	36424181	AA	CC	1946820030
SNP_P4_57121_36425012	NC_021163.1	Ca_kabuli_chr04	36425012	AA	GG	1946820032
SNP_P4_57122_36425015	NC_021163.1	Ca_kabuli_chr04	36425015	AA	GG	1946820034
SNP_P4_57123_36427557	NC_021163.1	Ca_kabuli_chr04	36427557	TT	CC	1946820036
SNP_P4_57124_36428498	NC_021163.1	Ca_kabuli_chr04	36428498	CC	TT	1946820038
SNP_P4_57125_36428500	NC_021163.1	Ca_kabuli_chr04	36428500	AA	GG	1946820040
SNP_P4_57126_36429014	NC_021163.1	Ca_kabuli_chr04	36429014	AA	GG	1946820042
SNP_P4_57127_36429354	NC_021163.1	Ca_kabuli_chr04	36429354	GG	AA	1946820044
SNP_P4_57128_36434282	NC_021163.1	Ca_kabuli_chr04	36434282	CC	TT	1946820046
SNP_P4_57129_36434289	NC_021163.1	Ca_kabuli_chr04	36434289	CC	AA	1946820048
SNP_P4_57130_36434495	NC_021163.1	Ca_kabuli_chr04	36434495	GG	TT	1946820050
SNP_P4_57131_36434531	NC_021163.1	Ca_kabuli_chr04	36434531	GG	AA	1946820052
SNP_P4_57132_36435037	NC_021163.1	Ca_kabuli_chr04	36435037	CC	TT	1946820055
SNP_P4_57133_36435105	NC_021163.1	Ca_kabuli_chr04	36435105	AA	TT	1946820057
SNP_P4_57134_36436361	NC_021163.1	Ca_kabuli_chr04	36436361	CC	TT	1946820059
SNP_P4_57135_36436421	NC_021163.1	Ca_kabuli_chr04	36436421	CC	TT	1946820061
SNP_P4_57136_36436432	NC_021163.1	Ca_kabuli_chr04	36436432	CC	TT	1946820063
SNP_P4_57137_36436435	NC_021163.1	Ca_kabuli_chr04	36436435	GG	AA	1946820065
SNP_P4_57138_36436817	NC_021163.1	Ca_kabuli_chr04	36436817	AA	GG	1946820067
SNP_P4_57139_36436920	NC_021163.1	Ca_kabuli_chr04	36436920	CC	GG	1946820069
SNP_P4_57140_36436950	NC_021163.1	Ca_kabuli_chr04	36436950	GG	TT	1946820071
SNP_P4_57141_36436951	NC_021163.1	Ca_kabuli_chr04	36436951	TT	AA	1946820073
SNP_P4_57142_36436987	NC_021163.1	Ca_kabuli_chr04	36436987	TT	GG	1946820075
SNP_P4_57143_36437002	NC_021163.1	Ca_kabuli_chr04	36437002	TT	CC	1946820077
SNP_P4_57144_36437190	NC_021163.1	Ca_kabuli_chr04	36437190	AA	GG	1946820079
SNP_P4_57145_36437281	NC_021163.1	Ca_kabuli_chr04	36437281	GG	CC	1946820081
SNP_P4_57146_36437315	NC_021163.1	Ca_kabuli_chr04	36437315	AA	TT	1946820083
SNP_P4_57147_36437622	NC_021163.1	Ca_kabuli_chr04	36437622	TT	GG	1946820085
SNP_P4_57148_36437815	NC_021163.1	Ca_kabuli_chr04	36437815	TT	AA	1946820087
SNP_P4_57149_36437909	NC_021163.1	Ca_kabuli_chr04	36437909	AA	TT	1946820089
SNP_P4_57150_36438006	NC_021163.1	Ca_kabuli_chr04	36438006	AA	TT	1946820091

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_57152_36438506	NC_021163.1	Ca_kabuli_chr04	36438506	TT	AA	1946820096
SNP_P4_57153_36438509	NC_021163.1	Ca_kabuli_chr04	36438509	AA	GG	1946820098
SNP_P4_57154_36438515	NC_021163.1	Ca_kabuli_chr04	36438515	TT	CC	1946820100
SNP_P4_57155_36438519	NC_021163.1	Ca_kabuli_chr04	36438519	AA	GG	1946820102
SNP_P4_57156_36438569	NC_021163.1	Ca_kabuli_chr04	36438569	CC	AA	1946820104
SNP_P4_57158_36438855	NC_021163.1	Ca_kabuli_chr04	36438855	GG	AA	1946820106
SNP_P4_57159_36438856	NC_021163.1	Ca_kabuli_chr04	36438856	AA	GG	1946820108
SNP_P4_57160_36442489	NC_021163.1	Ca_kabuli_chr04	36442489	CC	AA	1946820110
SNP_P4_57161_36444508	NC_021163.1	Ca_kabuli_chr04	36444508	GG	AA	1946820112
SNP_P4_57162_36445345	NC_021163.1	Ca_kabuli_chr04	36445345	GG	AA	1946820114
SNP_P4_57163_36450292	NC_021163.1	Ca_kabuli_chr04	36450292	AA	GG	1946820116
SNP_P4_57164_36450497	NC_021163.1	Ca_kabuli_chr04	36450497	TT	CC	1946820118
SNP_P4_57166_36450543	NC_021163.1	Ca_kabuli_chr04	36450543	TT	CC	1946820120
SNP_P4_57167_36450556	NC_021163.1	Ca_kabuli_chr04	36450556	CC	TT	1946820122
SNP_P4_57168_36450567	NC_021163.1	Ca_kabuli_chr04	36450567	TT	GG	1946820124
SNP_P4_57169_36450582	NC_021163.1	Ca_kabuli_chr04	36450582	CC	TT	1946820126
SNP_P4_57170_36450591	NC_021163.1	Ca_kabuli_chr04	36450591	CC	GG	1946820128
SNP_P4_57171_36452074	NC_021163.1	Ca_kabuli_chr04	36452074	GG	AA	1946820130
SNP_P4_57172_36452718	NC_021163.1	Ca_kabuli_chr04	36452718	GG	AA	1946820132
SNP_P4_57173_36452725	NC_021163.1	Ca_kabuli_chr04	36452725	TT	GG	1946820134
SNP_P4_57174_36452767	NC_021163.1	Ca_kabuli_chr04	36452767	CC	GG	1946820136
SNP_P4_57175_36452793	NC_021163.1	Ca_kabuli_chr04	36452793	AA	GG	1946820138
SNP_P4_57176_36452938	NC_021163.1	Ca_kabuli_chr04	36452938	CC	TT	1946820140
SNP_P4_57177_36452980	NC_021163.1	Ca_kabuli_chr04	36452980	TT	CC	1946820142
SNP_P4_57178_36452991	NC_021163.1	Ca_kabuli_chr04	36452991	CC	TT	1946820144
SNP_P4_57179_36453035	NC_021163.1	Ca_kabuli_chr04	36453035	CC	AA	1946820146
SNP_P4_57180_36453060	NC_021163.1	Ca_kabuli_chr04	36453060	GG	AA	1946820148
SNP_P4_57181_36453243	NC_021163.1	Ca_kabuli_chr04	36453243	CC	TT	1946820150
SNP_P4_57183_36453564	NC_021163.1	Ca_kabuli_chr04	36453564	GG	AA	1946820152
SNP_P4_57184_36455745	NC_021163.1	Ca_kabuli_chr04	36455745	CC	AA	1946820154
SNP_P4_57186_36458304	NC_021163.1	Ca_kabuli_chr04	36458304	GG	TT	1946820156
SNP_P4_57187_36458306	NC_021163.1	Ca_kabuli_chr04	36458306	GG	TT	1946820158
SNP_P4_57188_36458308	NC_021163.1	Ca_kabuli_chr04	36458308	GG	TT	1946820160
SNP_P4_57190_36458418	NC_021163.1	Ca_kabuli_chr04	36458418	GG	TT	1946820162
SNP_P4_57191_36458564	NC_021163.1	Ca_kabuli_chr04	36458564	TT	CC	1946820164
SNP_P4_57193_36462625	NC_021163.1	Ca_kabuli_chr04	36462625	GG	CC	1946820166
SNP_P4_57194_36464074	NC_021163.1	Ca_kabuli_chr04	36464074	CC	TT	1946820168
SNP_P4_57195_36464077	NC_021163.1	Ca_kabuli_chr04	36464077	TT	AA	1946820170
SNP_P4_57196_36464121	NC_021163.1	Ca_kabuli_chr04	36464121	GG	TT	1946820172
SNP_P4_57197_36464177	NC_021163.1	Ca_kabuli_chr04	36464177	AA	GG	1946820174
SNP_P4_57198_36464226	NC_021163.1	Ca_kabuli_chr04	36464226	CC	AA	1946820176

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_57199_36464467	NC_021163.1	Ca_kabuli_chr04	36464467	CC	GG	1946820178
SNP_P4_57200_36464486	NC_021163.1	Ca_kabuli_chr04	36464486	CC	AA	1946820180
SNP_P4_57201_36464518	NC_021163.1	Ca_kabuli_chr04	36464518	AA	CC	1946820182
SNP_P4_57202_36466557	NC_021163.1	Ca_kabuli_chr04	36466557	CC	GG	1946820184
SNP_P4_57203_36467016	NC_021163.1	Ca_kabuli_chr04	36467016	TT	CC	1946820186
SNP_P4_57204_36467421	NC_021163.1	Ca_kabuli_chr04	36467421	GG	AA	1946820188
SNP_P4_57205_36467706	NC_021163.1	Ca_kabuli_chr04	36467706	CC	TT	1946820190
SNP_P4_57206_36467943	NC_021163.1	Ca_kabuli_chr04	36467943	AA	GG	1946820192
SNP_P4_57207_36468545	NC_021163.1	Ca_kabuli_chr04	36468545	AA	GG	1946820194
SNP_P4_57208_36468562	NC_021163.1	Ca_kabuli_chr04	36468562	TT	AA	1946820196
SNP_P4_57209_36469012	NC_021163.1	Ca_kabuli_chr04	36469012	TT	CC	1946820198
SNP_P4_57210_36469223	NC_021163.1	Ca_kabuli_chr04	36469223	TT	CC	1946820200
SNP_P4_57211_36469282	NC_021163.1	Ca_kabuli_chr04	36469282	GG	AA	1946820202
SNP_P4_57212_36470890	NC_021163.1	Ca_kabuli_chr04	36470890	AA	TT	1946820204
SNP_P4_57213_36470961	NC_021163.1	Ca_kabuli_chr04	36470961	GG	TT	1946820206
SNP_P4_57214_36470972	NC_021163.1	Ca_kabuli_chr04	36470972	TT	CC	1946820208
SNP_P4_57215_36471475	NC_021163.1	Ca_kabuli_chr04	36471475	CC	TT	1946820210
SNP_P4_57217_36472097	NC_021163.1	Ca_kabuli_chr04	36472097	GG	AA	1946820212
SNP_P4_57218_36472204	NC_021163.1	Ca_kabuli_chr04	36472204	CC	TT	1946820214
SNP_P4_57220_36473208	NC_021163.1	Ca_kabuli_chr04	36473208	GG	AA	1946820216
SNP_P4_57221_36473558	NC_021163.1	Ca_kabuli_chr04	36473558	GG	AA	1946820218
SNP_P4_57222_36474063	NC_021163.1	Ca_kabuli_chr04	36474063	TT	CC	1946820220
SNP_P4_57224_36474647	NC_021163.1	Ca_kabuli_chr04	36474647	TT	GG	1946820222
SNP_P4_57225_36474857	NC_021163.1	Ca_kabuli_chr04	36474857	TT	CC	1946820224
SNP_P4_57226_36478028	NC_021163.1	Ca_kabuli_chr04	36478028	TT	GG	1946820226
SNP_P4_57227_36478040	NC_021163.1	Ca_kabuli_chr04	36478040	CC	AA	1946820228
SNP_P4_57228_36478385	NC_021163.1	Ca_kabuli_chr04	36478385	CC	TT	1946820230
SNP_P4_57229_36478804	NC_021163.1	Ca_kabuli_chr04	36478804	CC	TT	1946820232
SNP_P4_57230_36479167	NC_021163.1	Ca_kabuli_chr04	36479167	GG	AA	1946820234
SNP_P4_57231_36482643	NC_021163.1	Ca_kabuli_chr04	36482643	TT	GG	1946820236
SNP_P4_57232_36483814	NC_021163.1	Ca_kabuli_chr04	36483814	AA	GG	1946820238
SNP_P4_57233_36483833	NC_021163.1	Ca_kabuli_chr04	36483833	AA	GG	1946820240
SNP_P4_57235_36484147	NC_021163.1	Ca_kabuli_chr04	36484147	TT	AA	1946820242
SNP_P4_57236_36484166	NC_021163.1	Ca_kabuli_chr04	36484166	AA	GG	1946820244
SNP_P4_57237_36484194	NC_021163.1	Ca_kabuli_chr04	36484194	GG	TT	1946820245
SNP_P4_57238_36484593	NC_021163.1	Ca_kabuli_chr04	36484593	GG	AA	1946820247
SNP_P4_57239_36484617	NC_021163.1	Ca_kabuli_chr04	36484617	GG	AA	1946820249
SNP_P4_57240_36484638	NC_021163.1	Ca_kabuli_chr04	36484638	CC	TT	1946820251
SNP_P4_57241_36484661	NC_021163.1	Ca_kabuli_chr04	36484661	AA	GG	1946820253
SNP_P4_57244_36488114	NC_021163.1	Ca_kabuli_chr04	36488114	GG	TT	1946820255
SNP_P4_57245_36489335	NC_021163.1	Ca_kabuli_chr04	36489335	TT	AA	1946820257
SNP_P4_57246_36489507	NC_021163.1	Ca_kabuli_chr04	36489507	CC	TT	1946820259

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_57247_36489522	NC_021163.1	Ca_kabuli_chr04	36489522	TT	AA	1946820261
SNP_P4_57248_36489547	NC_021163.1	Ca_kabuli_chr04	36489547	GG	AA	1946820263
SNP_P4_57249_36489623	NC_021163.1	Ca_kabuli_chr04	36489623	CC	AA	1946820266
SNP_P4_57252_36495397	NC_021163.1	Ca_kabuli_chr04	36495397	CC	TT	1946820268
SNP_P4_57253_36495401	NC_021163.1	Ca_kabuli_chr04	36495401	TT	CC	1946820270
SNP_P4_57254_36495433	NC_021163.1	Ca_kabuli_chr04	36495433	TT	CC	1946820272
SNP_P4_57255_36496841	NC_021163.1	Ca_kabuli_chr04	36496841	GG	TT	1946820274
SNP_P4_57256_36497022	NC_021163.1	Ca_kabuli_chr04	36497022	AA	GG	1946820276
SNP_P4_57257_36497241	NC_021163.1	Ca_kabuli_chr04	36497241	GG	CC	1946820278
SNP_P4_57258_36499553	NC_021163.1	Ca_kabuli_chr04	36499553	GG	AA	1946820280
SNP_P4_57259_36501485	NC_021163.1	Ca_kabuli_chr04	36501485	GG	AA	1946820282
SNP_P4_57260_36501551	NC_021163.1	Ca_kabuli_chr04	36501551	CC	TT	1946820284
SNP_P4_57261_36501557	NC_021163.1	Ca_kabuli_chr04	36501557	AA	CC	1946820286
SNP_P4_57262_36501663	NC_021163.1	Ca_kabuli_chr04	36501663	TT	AA	1946820288
SNP_P4_57263_36501675	NC_021163.1	Ca_kabuli_chr04	36501675	AA	GG	1946820290
SNP_P4_57264_36501689	NC_021163.1	Ca_kabuli_chr04	36501689	GG	AA	1946820292
SNP_P4_57265_36501820	NC_021163.1	Ca_kabuli_chr04	36501820	AA	CC	1946820294
SNP_P4_57266_36501855	NC_021163.1	Ca_kabuli_chr04	36501855	GG	TT	1946820296
SNP_P4_57268_36506706	NC_021163.1	Ca_kabuli_chr04	36506706	CC	AA	1946820298
SNP_P4_57269_36507307	NC_021163.1	Ca_kabuli_chr04	36507307	TT	GG	1946820300
SNP_P4_57270_36507759	NC_021163.1	Ca_kabuli_chr04	36507759	TT	AA	1946820302
SNP_P4_57271_36508235	NC_021163.1	Ca_kabuli_chr04	36508235	CC	TT	1946820304
SNP_P4_57272_36508256	NC_021163.1	Ca_kabuli_chr04	36508256	AA	GG	1946820306
SNP_P4_57273_36508261	NC_021163.1	Ca_kabuli_chr04	36508261	CC	TT	1946820308
SNP_P4_57274_36508283	NC_021163.1	Ca_kabuli_chr04	36508283	TT	CC	1946820310
SNP_P4_57275_36508353	NC_021163.1	Ca_kabuli_chr04	36508353	GG	AA	1946820312
SNP_P4_57276_36508407	NC_021163.1	Ca_kabuli_chr04	36508407	CC	TT	1946820314
SNP_P4_57277_36508425	NC_021163.1	Ca_kabuli_chr04	36508425	TT	CC	1946820316
SNP_P4_57278_36509362	NC_021163.1	Ca_kabuli_chr04	36509362	CC	TT	1946820318
SNP_P4_57279_36509364	NC_021163.1	Ca_kabuli_chr04	36509364	TT	CC	1946820320
SNP_P4_57280_36509406	NC_021163.1	Ca_kabuli_chr04	36509406	GG	AA	1946820322
SNP_P4_57282_36510187	NC_021163.1	Ca_kabuli_chr04	36510187	AA	CC	1946820324
SNP_P4_57283_36510236	NC_021163.1	Ca_kabuli_chr04	36510236	CC	AA	1946820326
SNP_P4_57284_36510371	NC_021163.1	Ca_kabuli_chr04	36510371	CC	TT	1946820328
SNP_P4_57285_36510385	NC_021163.1	Ca_kabuli_chr04	36510385	TT	CC	1946820330
SNP_P4_57286_36510499	NC_021163.1	Ca_kabuli_chr04	36510499	TT	CC	1946820332
SNP_P4_57287_36510508	NC_021163.1	Ca_kabuli_chr04	36510508	AA	CC	1946820334
SNP_P4_57289_36510558	NC_021163.1	Ca_kabuli_chr04	36510558	GG	TT	1946820336
SNP_P4_57290_36510583	NC_021163.1	Ca_kabuli_chr04	36510583	AA	GG	1946820338
SNP_P4_57291_36511530	NC_021163.1	Ca_kabuli_chr04	36511530	TT	CC	1946820340
SNP_P4_57292_36515777	NC_021163.1	Ca_kabuli_chr04	36515777	GG	AA	1946820342
SNP_P4_57293_36516328	NC_021163.1	Ca_kabuli_chr04	36516328	CC	AA	1946820344

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_57295_36516684	NC_021163.1	Ca_kabuli_chr04	36516684	AA	GG	1946820348
SNP_P4_57296_36516720	NC_021163.1	Ca_kabuli_chr04	36516720	AA	CC	1946820350
SNP_P4_57297_36517842	NC_021163.1	Ca_kabuli_chr04	36517842	AA	CC	1946820352
SNP_P4_57298_36517877	NC_021163.1	Ca_kabuli_chr04	36517877	CC	TT	1946820354
SNP_P4_57299_36518078	NC_021163.1	Ca_kabuli_chr04	36518078	CC	TT	1946820356
SNP_P4_57300_36518102	NC_021163.1	Ca_kabuli_chr04	36518102	TT	CC	1946820358
SNP_P4_57301_36518151	NC_021163.1	Ca_kabuli_chr04	36518151	AA	GG	1946820360
SNP_P4_57302_36518547	NC_021163.1	Ca_kabuli_chr04	36518547	AA	GG	1946820362
SNP_P4_57303_36527020	NC_021163.1	Ca_kabuli_chr04	36527020	CC	TT	1946820364
SNP_P4_57304_36527128	NC_021163.1	Ca_kabuli_chr04	36527128	CC	AA	1946820366
SNP_P4_57306_36527992	NC_021163.1	Ca_kabuli_chr04	36527992	GG	AA	1946820368
SNP_P4_57307_36529504	NC_021163.1	Ca_kabuli_chr04	36529504	GG	AA	1946820370
SNP_P4_57308_36530294	NC_021163.1	Ca_kabuli_chr04	36530294	CC	TT	1946820372
SNP_P4_57309_36533234	NC_021163.1	Ca_kabuli_chr04	36533234	GG	AA	1946820374
SNP_P4_57310_36533244	NC_021163.1	Ca_kabuli_chr04	36533244	CC	AA	1946820376
SNP_P4_57311_36533256	NC_021163.1	Ca_kabuli_chr04	36533256	TT	CC	1946820378
SNP_P4_57312_36533515	NC_021163.1	Ca_kabuli_chr04	36533515	GG	AA	1946820380
SNP_P4_57313_36533522	NC_021163.1	Ca_kabuli_chr04	36533522	AA	TT	1946820382
SNP_P4_57314_36533712	NC_021163.1	Ca_kabuli_chr04	36533712	TT	CC	1946820384
SNP_P4_57315_36534468	NC_021163.1	Ca_kabuli_chr04	36534468	TT	CC	1946820386
SNP_P4_57317_36536416	NC_021163.1	Ca_kabuli_chr04	36536416	GG	TT	1946820388
SNP_P4_57318_36539612	NC_021163.1	Ca_kabuli_chr04	36539612	TT	CC	1946820390
SNP_P4_57319_36540223	NC_021163.1	Ca_kabuli_chr04	36540223	CC	TT	1946820392
SNP_P4_57320_36541409	NC_021163.1	Ca_kabuli_chr04	36541409	AA	GG	1946820394
SNP_P4_57321_36542201	NC_021163.1	Ca_kabuli_chr04	36542201	GG	AA	1946820396
SNP_P4_57322_36542684	NC_021163.1	Ca_kabuli_chr04	36542684	TT	CC	1946820398
SNP_P4_57323_36542860	NC_021163.1	Ca_kabuli_chr04	36542860	GG	AA	1946820400
SNP_P4_57324_36543092	NC_021163.1	Ca_kabuli_chr04	36543092	CC	AA	1946820402
SNP_P4_57325_36543374	NC_021163.1	Ca_kabuli_chr04	36543374	AA	CC	1946820404
SNP_P4_57326_36543399	NC_021163.1	Ca_kabuli_chr04	36543399	CC	AA	1946820406
SNP_P4_57327_36544009	NC_021163.1	Ca_kabuli_chr04	36544009	TT	CC	1946820408
SNP_P4_57328_36544020	NC_021163.1	Ca_kabuli_chr04	36544020	AA	TT	1946820410
SNP_P4_57329_36544296	NC_021163.1	Ca_kabuli_chr04	36544296	GG	AA	1946820412
SNP_P4_57330_36545271	NC_021163.1	Ca_kabuli_chr04	36545271	GG	AA	1946820414
SNP_P4_57331_36545281	NC_021163.1	Ca_kabuli_chr04	36545281	CC	AA	1946820416
SNP_P4_57332_36545836	NC_021163.1	Ca_kabuli_chr04	36545836	TT	CC	1946820418
SNP_P4_57333_36545864	NC_021163.1	Ca_kabuli_chr04	36545864	CC	AA	1946820420
SNP_P4_57334_36553896	NC_021163.1	Ca_kabuli_chr04	36553896	CC	TT	1946820422
SNP_P4_57335_36559031	NC_021163.1	Ca_kabuli_chr04	36559031	AA	GG	1946820424
SNP_P4_57336_36560939	NC_021163.1	Ca_kabuli_chr04	36560939	AA	GG	1946820426
SNP_P4_57338_36561006	NC_021163.1	Ca_kabuli_chr04	36561006	GG	AA	1946820428

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_57341_36561890	NC_021163.1	Ca_kabuli_chr04	36561890	CC	TT	1946820432
SNP_P4_57342_36562072	NC_021163.1	Ca_kabuli_chr04	36562072	TT	AA	1946820434
SNP_P4_57343_36562085	NC_021163.1	Ca_kabuli_chr04	36562085	TT	CC	1946820436
SNP_P4_57344_36563839	NC_021163.1	Ca_kabuli_chr04	36563839	AA	CC	1946820438
SNP_P4_57345_36563841	NC_021163.1	Ca_kabuli_chr04	36563841	TT	CC	1946820440
SNP_P4_57346_36563857	NC_021163.1	Ca_kabuli_chr04	36563857	TT	CC	1946820442
SNP_P4_57347_36565153	NC_021163.1	Ca_kabuli_chr04	36565153	GG	TT	1946820444
SNP_P4_57348_36565155	NC_021163.1	Ca_kabuli_chr04	36565155	GG	AA	1946820447
SNP_P4_57349_36565403	NC_021163.1	Ca_kabuli_chr04	36565403	CC	TT	1946820449
SNP_P4_57350_36565413	NC_021163.1	Ca_kabuli_chr04	36565413	TT	CC	1946820451
SNP_P4_57352_36565675	NC_021163.1	Ca_kabuli_chr04	36565675	TT	AA	1946820453
SNP_P4_57354_36567207	NC_021163.1	Ca_kabuli_chr04	36567207	CC	TT	1946820455
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SNP_P4_57356_36567319	NC_021163.1	Ca_kabuli_chr04	36567319	AA	GG	1946820460
SNP_P4_57357_36567373	NC_021163.1	Ca_kabuli_chr04	36567373	GG	TT	1946820462
SNP_P4_57358_36567515	NC_021163.1	Ca_kabuli_chr04	36567515	GG	AA	1946820464
SNP_P4_57359_36567563	NC_021163.1	Ca_kabuli_chr04	36567563	TT	CC	1946820467
SNP_P4_57360_36568331	NC_021163.1	Ca_kabuli_chr04	36568331	GG	CC	1946820469
SNP_P4_57361_36572768	NC_021163.1	Ca_kabuli_chr04	36572768	TT	GG	1946820471
SNP_P4_57362_36573034	NC_021163.1	Ca_kabuli_chr04	36573034	GG	TT	1946820473
SNP_P4_57363_36573039	NC_021163.1	Ca_kabuli_chr04	36573039	AA	GG	1946820475
SNP_P4_57364_36575031	NC_021163.1	Ca_kabuli_chr04	36575031	TT	CC	1946820478
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SNP_P4_57369_36587349	NC_021163.1	Ca_kabuli_chr04	36587349	AA	GG	1946820488
SNP_P4_57370_36588379	NC_021163.1	Ca_kabuli_chr04	36588379	GG	TT	1946820490
SNP_P4_57371_36588431	NC_021163.1	Ca_kabuli_chr04	36588431	TT	CC	1946820493
SNP_P4_57372_36589553	NC_021163.1	Ca_kabuli_chr04	36589553	AA	TT	1946820495
SNP_P4_57373_36589557	NC_021163.1	Ca_kabuli_chr04	36589557	GG	AA	1946820497
SNP_P4_57374_36589597	NC_021163.1	Ca_kabuli_chr04	36589597	AA	TT	1946820499
SNP_P4_57375_36589598	NC_021163.1	Ca_kabuli_chr04	36589598	AA	GG	1946820502
SNP_P4_57376_36592952	NC_021163.1	Ca_kabuli_chr04	36592952	CC	AA	1946820504
SNP_P4_57377_36592999	NC_021163.1	Ca_kabuli_chr04	36592999	GG	AA	1946820506
SNP_P4_57378_36593269	NC_021163.1	Ca_kabuli_chr04	36593269	AA	CC	1946820509
SNP_P4_57379_36593488	NC_021163.1	Ca_kabuli_chr04	36593488	TT	CC	1946820511
SNP_P4_57380_36593499	NC_021163.1	Ca_kabuli_chr04	36593499	CC	TT	1946820513
SNP_P4_57381_36593539	NC_021163.1	Ca_kabuli_chr04	36593539	GG	TT	1946820515
SNP_P4_57382_36593695	NC_021163.1	Ca_kabuli_chr04	36593695	GG	AA	1946820517
SNP_P4_57383_36593811	NC_021163.1	Ca_kabuli_chr04	36593811	TT	GG	1946820519

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_57386_36593880	NC_021163.1	Ca_kabuli_chr04	36593880	GG	AA	1946820526
SNP_P4_57387_36593882	NC_021163.1	Ca_kabuli_chr04	36593882	CC	TT	1946820528
SNP_P4_57388_36593923	NC_021163.1	Ca_kabuli_chr04	36593923	GG	AA	1946820530
SNP_P4_57389_36593943	NC_021163.1	Ca_kabuli_chr04	36593943	CC	AA	1946820532
SNP_P4_57390_36593957	NC_021163.1	Ca_kabuli_chr04	36593957	TT	CC	1946820534
SNP_P4_57391_36595452	NC_021163.1	Ca_kabuli_chr04	36595452	AA	GG	1946820537
SNP_P4_57392_36595646	NC_021163.1	Ca_kabuli_chr04	36595646	AA	GG	1946820539
SNP_P4_57393_36595718	NC_021163.1	Ca_kabuli_chr04	36595718	AA	TT	1946820541
SNP_P4_57394_36595735	NC_021163.1	Ca_kabuli_chr04	36595735	TT	CC	1946820543
SNP_P4_57395_36595964	NC_021163.1	Ca_kabuli_chr04	36595964	CC	TT	1946820545
SNP_P4_57396_36595976	NC_021163.1	Ca_kabuli_chr04	36595976	CC	AA	1946820547
SNP_P4_57397_36596013	NC_021163.1	Ca_kabuli_chr04	36596013	AA	TT	1946820549
SNP_P4_57398_36596027	NC_021163.1	Ca_kabuli_chr04	36596027	AA	TT	1946820551
SNP_P4_57399_36596049	NC_021163.1	Ca_kabuli_chr04	36596049	CC	GG	1946820553
SNP_P4_57400_36596262	NC_021163.1	Ca_kabuli_chr04	36596262	CC	AA	1946820555
SNP_P4_57401_36596314	NC_021163.1	Ca_kabuli_chr04	36596314	GG	TT	1946820557
SNP_P4_57402_36597812	NC_021163.1	Ca_kabuli_chr04	36597812	CC	TT	1946820559
SNP_P4_57403_36597854	NC_021163.1	Ca_kabuli_chr04	36597854	TT	CC	1946820561
SNP_P4_57404_36597881	NC_021163.1	Ca_kabuli_chr04	36597881	TT	AA	1946820563
SNP_P4_57405_36599968	NC_021163.1	Ca_kabuli_chr04	36599968	TT	CC	1946820565
SNP_P4_57406_36600132	NC_021163.1	Ca_kabuli_chr04	36600132	GG	AA	1946820567
SNP_P4_57407_36600164	NC_021163.1	Ca_kabuli_chr04	36600164	AA	TT	1946820569
SNP_P4_57408_36600492	NC_021163.1	Ca_kabuli_chr04	36600492	AA	GG	1946820571
SNP_P4_57410_36601322	NC_021163.1	Ca_kabuli_chr04	36601322	CC	TT	1946820573
SNP_P4_57411_36601523	NC_021163.1	Ca_kabuli_chr04	36601523	GG	AA	1946820575
SNP_P4_57412_36601565	NC_021163.1	Ca_kabuli_chr04	36601565	CC	AA	1946820577
SNP_P4_57414_36603837	NC_021163.1	Ca_kabuli_chr04	36603837	CC	TT	1946820579
SNP_P4_57415_36604030	NC_021163.1	Ca_kabuli_chr04	36604030	GG	AA	1946820581
SNP_P4_57416_36604067	NC_021163.1	Ca_kabuli_chr04	36604067	AA	CC	1946820583
SNP_P4_57417_36609185	NC_021163.1	Ca_kabuli_chr04	36609185	CC	TT	1946820585
SNP_P4_57418_36609192	NC_021163.1	Ca_kabuli_chr04	36609192	GG	AA	1946820588
SNP_P4_57419_36616495	NC_021163.1	Ca_kabuli_chr04	36616495	AA	TT	1946820590
SNP_P4_57420_36617839	NC_021163.1	Ca_kabuli_chr04	36617839	AA	TT	1946820592
SNP_P4_57421_36617889	NC_021163.1	Ca_kabuli_chr04	36617889	TT	CC	1946820594
SNP_P4_57422_36619939	NC_021163.1	Ca_kabuli_chr04	36619939	CC	TT	1946820596
SNP_P4_57423_36620535	NC_021163.1	Ca_kabuli_chr04	36620535	TT	GG	1946820598
SNP_P4_57424_36620554	NC_021163.1	Ca_kabuli_chr04	36620554	TT	CC	1946820600
SNP_P4_57425_36621142	NC_021163.1	Ca_kabuli_chr04	36621142	AA	GG	1946820602
SNP_P4_57426_36621171	NC_021163.1	Ca_kabuli_chr04	36621171	CC	TT	1946820604
SNP_P4_57427_36621195	NC_021163.1	Ca_kabuli_chr04	36621195	GG	AA	1946820606

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_57430_36621778	NC_021163.1	Ca_kabuli_chr04	36621778	AA	GG	1946820612
SNP_P4_57431_36622047	NC_021163.1	Ca_kabuli_chr04	36622047	AA	GG	1946820613
SNP_P4_57433_36622252	NC_021163.1	Ca_kabuli_chr04	36622252	AA	CC	1946820616
SNP_P4_57434_36622773	NC_021163.1	Ca_kabuli_chr04	36622773	GG	TT	1946820618
SNP_P4_57435_36622828	NC_021163.1	Ca_kabuli_chr04	36622828	AA	TT	1946820620
SNP_P4_57437_36623374	NC_021163.1	Ca_kabuli_chr04	36623374	TT	AA	1946820622
SNP_P4_57439_36624763	NC_021163.1	Ca_kabuli_chr04	36624763	GG	CC	1946820624
SNP_P4_57440_36624786	NC_021163.1	Ca_kabuli_chr04	36624786	AA	GG	1946820626
SNP_P4_57441_36627918	NC_021163.1	Ca_kabuli_chr04	36627918	AA	TT	1946820628
SNP_P4_57442_36627944	NC_021163.1	Ca_kabuli_chr04	36627944	TT	CC	1946820630
SNP_P4_57443_36628138	NC_021163.1	Ca_kabuli_chr04	36628138	TT	CC	1946820632
SNP_P4_57444_36629787	NC_021163.1	Ca_kabuli_chr04	36629787	GG	AA	1946820634
SNP_P4_57445_36629859	NC_021163.1	Ca_kabuli_chr04	36629859	TT	CC	1946820636
SNP_P4_57446_36629973	NC_021163.1	Ca_kabuli_chr04	36629973	AA	GG	1946820638
SNP_P4_57447_36631064	NC_021163.1	Ca_kabuli_chr04	36631064	AA	CC	1946820640
SNP_P4_57448_36631344	NC_021163.1	Ca_kabuli_chr04	36631344	GG	TT	1946820642
SNP_P4_57450_36631684	NC_021163.1	Ca_kabuli_chr04	36631684	AA	GG	1946820644
SNP_P4_57451_36631899	NC_021163.1	Ca_kabuli_chr04	36631899	GG	AA	1946820646
SNP_P4_57452_36631936	NC_021163.1	Ca_kabuli_chr04	36631936	AA	TT	1946820647
SNP_P4_57453_36632217	NC_021163.1	Ca_kabuli_chr04	36632217	TT	CC	1946820649
SNP_P4_57454_36632549	NC_021163.1	Ca_kabuli_chr04	36632549	GG	AA	1946820651
SNP_P4_57455_36633138	NC_021163.1	Ca_kabuli_chr04	36633138	TT	CC	1946820653
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SNP_P4_57459_36633286	NC_021163.1	Ca_kabuli_chr04	36633286	TT	GG	1946820659
SNP_P4_57460_36633303	NC_021163.1	Ca_kabuli_chr04	36633303	GG	TT	1946820661
SNP_P4_57461_36633578	NC_021163.1	Ca_kabuli_chr04	36633578	GG	AA	1946820663
SNP_P4_57462_36634272	NC_021163.1	Ca_kabuli_chr04	36634272	CC	TT	1946820665
SNP_P4_57463_36634414	NC_021163.1	Ca_kabuli_chr04	36634414	GG	AA	1946820667
SNP_P4_57464_36634682	NC_021163.1	Ca_kabuli_chr04	36634682	AA	GG	1946820669
SNP_P4_57465_36634692	NC_021163.1	Ca_kabuli_chr04	36634692	GG	AA	1946820670
SNP_P4_57466_36634725	NC_021163.1	Ca_kabuli_chr04	36634725	CC	TT	1946820672
SNP_P4_57467_36634866	NC_021163.1	Ca_kabuli_chr04	36634866	CC	AA	1946820674
SNP_P4_57468_36637574	NC_021163.1	Ca_kabuli_chr04	36637574	CC	TT	1946820676
SNP_P4_57469_36637922	NC_021163.1	Ca_kabuli_chr04	36637922	CC	TT	1946820678
SNP_P4_57470_36638037	NC_021163.1	Ca_kabuli_chr04	36638037	CC	AA	1946820680
SNP_P4_57472_36639442	NC_021163.1	Ca_kabuli_chr04	36639442	AA	GG	1946820682
SNP_P4_57473_36639831	NC_021163.1	Ca_kabuli_chr04	36639831	CC	TT	1946820684
SNP_P4_57475_36644567	NC_021163.1	Ca_kabuli_chr04	36644567	CC	TT	1946820686
SNP_P4_57476_36645270	NC_021163.1	Ca_kabuli_chr04	36645270	AA	TT	1946820688

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_57479_36646015	NC_021163.1	Ca_kabuli_chr04	36646015	GG	AA	1946820694
SNP_P4_57480_36647686	NC_021163.1	Ca_kabuli_chr04	36647686	GG	AA	1946820696
SNP_P4_57481_36648372	NC_021163.1	Ca_kabuli_chr04	36648372	TT	CC	1946820698
SNP_P4_57482_36663465	NC_021163.1	Ca_kabuli_chr04	36663465	AA	GG	1946820700
SNP_P4_57483_36663863	NC_021163.1	Ca_kabuli_chr04	36663863	AA	GG	1946820702
SNP_P4_57484_36663880	NC_021163.1	Ca_kabuli_chr04	36663880	CC	TT	1946820704
SNP_P4_57485_36663883	NC_021163.1	Ca_kabuli_chr04	36663883	AA	GG	1946820706
SNP_P4_57486_36665196	NC_021163.1	Ca_kabuli_chr04	36665196	AA	GG	1946820708
SNP_P4_57487_36667369	NC_021163.1	Ca_kabuli_chr04	36667369	AA	GG	1946820710
SNP_P4_57488_36674183	NC_021163.1	Ca_kabuli_chr04	36674183	TT	CC	1946820712
SNP_P4_57489_36676658	NC_021163.1	Ca_kabuli_chr04	36676658	AA	GG	1946820714
SNP_P4_57490_36682523	NC_021163.1	Ca_kabuli_chr04	36682523	AA	GG	1946820716
SNP_P4_57491_36690403	NC_021163.1	Ca_kabuli_chr04	36690403	AA	CC	1946820718
SNP_P4_57492_36693515	NC_021163.1	Ca_kabuli_chr04	36693515	GG	TT	1946820720
SNP_P4_57494_36726607	NC_021163.1	Ca_kabuli_chr04	36726607	TT	CC	1946820722
SNP_P4_57495_36726627	NC_021163.1	Ca_kabuli_chr04	36726627	TT	CC	1946820724
SNP_P4_57496_36726657	NC_021163.1	Ca_kabuli_chr04	36726657	TT	CC	1946820726
SNP_P4_57497_36726681	NC_021163.1	Ca_kabuli_chr04	36726681	CC	TT	1946820728
SNP_P4_57498_36726704	NC_021163.1	Ca_kabuli_chr04	36726704	TT	CC	1946820730
SNP_P4_57499_36726720	NC_021163.1	Ca_kabuli_chr04	36726720	AA	CC	1946820732
SNP_P4_57500_36726745	NC_021163.1	Ca_kabuli_chr04	36726745	TT	CC	1946820734
SNP_P4_57501_36726750	NC_021163.1	Ca_kabuli_chr04	36726750	AA	GG	1946820736
SNP_P4_57502_36726819	NC_021163.1	Ca_kabuli_chr04	36726819	CC	AA	1946820738
SNP_P4_57503_36726986	NC_021163.1	Ca_kabuli_chr04	36726986	AA	GG	1946820740
SNP_P4_57504_36727121	NC_021163.1	Ca_kabuli_chr04	36727121	TT	AA	1946820742
SNP_P4_57505_36727163	NC_021163.1	Ca_kabuli_chr04	36727163	TT	CC	1946820744
SNP_P4_57506_36735153	NC_021163.1	Ca_kabuli_chr04	36735153	CC	TT	1946820746
SNP_P4_57507_36735293	NC_021163.1	Ca_kabuli_chr04	36735293	CC	TT	1946820748
SNP_P4_57508_36761432	NC_021163.1	Ca_kabuli_chr04	36761432	CC	AA	1946820750
SNP_P4_57509_36777104	NC_021163.1	Ca_kabuli_chr04	36777104	TT	GG	1946820752
SNP_P4_57510_36785197	NC_021163.1	Ca_kabuli_chr04	36785197	GG	AA	1946820753
SNP_P4_57511_36810042	NC_021163.1	Ca_kabuli_chr04	36810042	AA	GG	1946820755
SNP_P4_57512_36814829	NC_021163.1	Ca_kabuli_chr04	36814829	CC	TT	1946820757
SNP_P4_57514_36859655	NC_021163.1	Ca_kabuli_chr04	36859655	GG	TT	1946820759
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SNP_P4_57516_36897993	NC_021163.1	Ca_kabuli_chr04	36897993	CC	AA	1946820763
SNP_P4_57517_36899487	NC_021163.1	Ca_kabuli_chr04	36899487	TT	CC	1946820765
SNP_P4_57519_36907623	NC_021163.1	Ca_kabuli_chr04	36907623	AA	GG	1946820767
SNP_P4_57520_36907686	NC_021163.1	Ca_kabuli_chr04	36907686	AA	GG	1946820769
SNP_P4_57521_36917722	NC_021163.1	Ca_kabuli_chr04	36917722	CC	AA	1946820771

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_57524_36931530	NC_021163.1	Ca_kabuli_chr04	36931530	TT	CC	1946820774
SNP_P4_57525_36931832	NC_021163.1	Ca_kabuli_chr04	36931832	CC	TT	1946820776
SNP_P4_57526_36931880	NC_021163.1	Ca_kabuli_chr04	36931880	AA	GG	1946820778
SNP_P4_57527_36931881	NC_021163.1	Ca_kabuli_chr04	36931881	TT	GG	1946820780
SNP_P4_57528_36932554	NC_021163.1	Ca_kabuli_chr04	36932554	CC	TT	1946820782
SNP_P4_57529_36937984	NC_021163.1	Ca_kabuli_chr04	36937984	GG	TT	1946820784
SNP_P4_57530_36947977	NC_021163.1	Ca_kabuli_chr04	36947977	AA	GG	1946820786
SNP_P4_57531_36952554	NC_021163.1	Ca_kabuli_chr04	36952554	CC	TT	1946820788
SNP_P4_57532_36952588	NC_021163.1	Ca_kabuli_chr04	36952588	GG	TT	1946820790
SNP_P4_57534_36952750	NC_021163.1	Ca_kabuli_chr04	36952750	GG	TT	1946820792
SNP_P4_57536_36955203	NC_021163.1	Ca_kabuli_chr04	36955203	TT	AA	1946820794
SNP_P4_57537_36956982	NC_021163.1	Ca_kabuli_chr04	36956982	TT	AA	1946820796
SNP_P4_57538_36957135	NC_021163.1	Ca_kabuli_chr04	36957135	CC	GG	1946820798
SNP_P4_57539_36957146	NC_021163.1	Ca_kabuli_chr04	36957146	CC	AA	1946820800
SNP_P4_57540_36957325	NC_021163.1	Ca_kabuli_chr04	36957325	CC	TT	1946820802
SNP_P4_57542_36957460	NC_021163.1	Ca_kabuli_chr04	36957460	GG	TT	1946820804
SNP_P4_57544_36957739	NC_021163.1	Ca_kabuli_chr04	36957739	CC	TT	1946820806
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SNP_P4_57546_36959401	NC_021163.1	Ca_kabuli_chr04	36959401	CC	GG	1946820810
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SNP_P4_57548_36959511	NC_021163.1	Ca_kabuli_chr04	36959511	AA	GG	1946820814
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SNP_P4_57550_36959631	NC_021163.1	Ca_kabuli_chr04	36959631	GG	AA	1946820818
SNP_P4_57552_36959823	NC_021163.1	Ca_kabuli_chr04	36959823	CC	AA	1946820820
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SNP_P4_57557_36962418	NC_021163.1	Ca_kabuli_chr04	36962418	AA	GG	1946820829
SNP_P4_57558_36962419	NC_021163.1	Ca_kabuli_chr04	36962419	AA	GG	1946820831
SNP_P4_57559_36965282	NC_021163.1	Ca_kabuli_chr04	36965282	GG	AA	1946820833
SNP_P4_57563_36968824	NC_021163.1	Ca_kabuli_chr04	36968824	GG	AA	1946820835
SNP_P4_57564_36969393	NC_021163.1	Ca_kabuli_chr04	36969393	GG	AA	1946820837
SNP_P4_57565_36969466	NC_021163.1	Ca_kabuli_chr04	36969466	AA	GG	1946820839
SNP_P4_57567_36969685	NC_021163.1	Ca_kabuli_chr04	36969685	CC	GG	1946820841
SNP_P4_57568_36969702	NC_021163.1	Ca_kabuli_chr04	36969702	GG	TT	1946820843
SNP_P4_57569_36969768	NC_021163.1	Ca_kabuli_chr04	36969768	AA	GG	1946820845
SNP_P4_57570_36969774	NC_021163.1	Ca_kabuli_chr04	36969774	TT	CC	1946820847
SNP_P4_57571_36971373	NC_021163.1	Ca_kabuli_chr04	36971373	GG	AA	1946820850
SNP_P4_57574_36971435	NC_021163.1	Ca_kabuli_chr04	36971435	AA	GG	1946820852
SNP_P4_57575_36971526	NC_021163.1	Ca_kabuli_chr04	36971526	AA	GG	1946820854
SNP_P4_57576_36971597	NC_021163.1	Ca_kabuli_chr04	36971597	AA	GG	1946820856

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_57580_36972582	NC_021163.1	Ca_kabuli_chr04	36972582	AA	TT	1946820860
SNP_P4_57581_36972613	NC_021163.1	Ca_kabuli_chr04	36972613	CC	GG	1946820862
SNP_P4_57582_36976279	NC_021163.1	Ca_kabuli_chr04	36976279	TT	GG	1946820864
SNP_P4_57584_36976494	NC_021163.1	Ca_kabuli_chr04	36976494	TT	CC	1946820867
SNP_P4_57585_36976544	NC_021163.1	Ca_kabuli_chr04	36976544	TT	CC	1946820869
SNP_P4_57586_36977631	NC_021163.1	Ca_kabuli_chr04	36977631	CC	TT	1946820871
SNP_P4_57587_36977961	NC_021163.1	Ca_kabuli_chr04	36977961	TT	GG	1946820873
SNP_P4_57588_36978092	NC_021163.1	Ca_kabuli_chr04	36978092	TT	GG	1946820875
SNP_P4_57589_36978158	NC_021163.1	Ca_kabuli_chr04	36978158	GG	AA	1946820877
SNP_P4_57590_36978159	NC_021163.1	Ca_kabuli_chr04	36978159	GG	AA	1946820879
SNP_P4_57591_36979879	NC_021163.1	Ca_kabuli_chr04	36979879	CC	TT	1946820881
SNP_P4_57592_36981057	NC_021163.1	Ca_kabuli_chr04	36981057	GG	AA	1946820883
SNP_P4_57593_36981273	NC_021163.1	Ca_kabuli_chr04	36981273	GG	AA	1946820885
SNP_P4_57594_36983851	NC_021163.1	Ca_kabuli_chr04	36983851	GG	AA	1946820887
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SNP_P4_57596_37004425	NC_021163.1	Ca_kabuli_chr04	37004425	TT	GG	1946820891
SNP_P4_57597_37007372	NC_021163.1	Ca_kabuli_chr04	37007372	TT	CC	1946820893
SNP_P4_57598_37007409	NC_021163.1	Ca_kabuli_chr04	37007409	TT	GG	1946820895
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SNP_P4_57602_37007484	NC_021163.1	Ca_kabuli_chr04	37007484	AA	GG	1946820901
SNP_P4_57603_37007518	NC_021163.1	Ca_kabuli_chr04	37007518	AA	CC	1946820903
SNP_P4_57604_37007726	NC_021163.1	Ca_kabuli_chr04	37007726	GG	AA	1946820905
SNP_P4_57605_37007732	NC_021163.1	Ca_kabuli_chr04	37007732	GG	AA	1946820907
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SNP_P4_57608_37007785	NC_021163.1	Ca_kabuli_chr04	37007785	GG	AA	1946820913
SNP_P4_57609_37007813	NC_021163.1	Ca_kabuli_chr04	37007813	CC	TT	1946820915
SNP_P4_57610_37008879	NC_021163.1	Ca_kabuli_chr04	37008879	TT	CC	1946820917
SNP_P4_57611_37008881	NC_021163.1	Ca_kabuli_chr04	37008881	TT	CC	1946820919
SNP_P4_57612_37008884	NC_021163.1	Ca_kabuli_chr04	37008884	AA	CC	1946820921
SNP_P4_57613_37008893	NC_021163.1	Ca_kabuli_chr04	37008893	GG	TT	1946820924
SNP_P4_57614_37008901	NC_021163.1	Ca_kabuli_chr04	37008901	TT	CC	1946820926
SNP_P4_57615_37008952	NC_021163.1	Ca_kabuli_chr04	37008952	TT	CC	1946820928
SNP_P4_57616_37008963	NC_021163.1	Ca_kabuli_chr04	37008963	CC	TT	1946820930
SNP_P4_57617_37008969	NC_021163.1	Ca_kabuli_chr04	37008969	CC	AA	1946820932
SNP_P4_57618_37009219	NC_021163.1	Ca_kabuli_chr04	37009219	AA	GG	1946820934
SNP_P4_57619_37011820	NC_021163.1	Ca_kabuli_chr04	37011820	TT	AA	1946820936
SNP_P4_57621_37012778	NC_021163.1	Ca_kabuli_chr04	37012778	TT	GG	1946820938
SNP_P4_57622_37013005	NC_021163.1	Ca_kabuli_chr04	37013005	AA	TT	1946820940
SNP_P4_57623_37013071	NC_021163.1	Ca_kabuli_chr04	37013071	AA	TT	1946820942

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_57625_37013556	NC_021163.1	Ca_kabuli_chr04	37013556	CC	TT	1946820946
SNP_P4_57626_37013579	NC_021163.1	Ca_kabuli_chr04	37013579	AA	TT	1946820948
SNP_P4_57627_37013684	NC_021163.1	Ca_kabuli_chr04	37013684	GG	TT	1946820950
SNP_P4_57628_37013776	NC_021163.1	Ca_kabuli_chr04	37013776	AA	GG	1946820952
SNP_P4_57629_37013797	NC_021163.1	Ca_kabuli_chr04	37013797	GG	AA	1946820954
SNP_P4_57630_37013829	NC_021163.1	Ca_kabuli_chr04	37013829	TT	CC	1946820956
SNP_P4_57631_37013855	NC_021163.1	Ca_kabuli_chr04	37013855	CC	TT	1946820958
SNP_P4_57632_37013861	NC_021163.1	Ca_kabuli_chr04	37013861	AA	TT	1946820960
SNP_P4_57633_37015014	NC_021163.1	Ca_kabuli_chr04	37015014	AA	CC	1946820962
SNP_P4_57634_37015020	NC_021163.1	Ca_kabuli_chr04	37015020	AA	GG	1946820964
SNP_P4_57635_37015347	NC_021163.1	Ca_kabuli_chr04	37015347	AA	GG	1946820966
SNP_P4_57636_37015379	NC_021163.1	Ca_kabuli_chr04	37015379	TT	CC	1946820968
SNP_P4_57637_37015686	NC_021163.1	Ca_kabuli_chr04	37015686	AA	CC	1946820970
SNP_P4_57638_37015865	NC_021163.1	Ca_kabuli_chr04	37015865	GG	TT	1946820972
SNP_P4_57639_37015870	NC_021163.1	Ca_kabuli_chr04	37015870	TT	CC	1946820974
SNP_P4_57640_37024175	NC_021163.1	Ca_kabuli_chr04	37024175	TT	GG	1946820976
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SNP_P4_57645_37025697	NC_021163.1	Ca_kabuli_chr04	37025697	TT	CC	1946820986
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SNP_P4_57653_37034341	NC_021163.1	Ca_kabuli_chr04	37034341	GG	AA	1946821002
SNP_P4_57655_37034722	NC_021163.1	Ca_kabuli_chr04	37034722	TT	CC	1946821004
SNP_P4_57656_37038472	NC_021163.1	Ca_kabuli_chr04	37038472	GG	AA	1946821006
SNP_P4_57657_37038491	NC_021163.1	Ca_kabuli_chr04	37038491	AA	GG	1946821008
SNP_P4_57658_37038495	NC_021163.1	Ca_kabuli_chr04	37038495	CC	TT	1946821010
SNP_P4_57660_37038604	NC_021163.1	Ca_kabuli_chr04	37038604	AA	TT	1946821012
SNP_P4_57661_37039140	NC_021163.1	Ca_kabuli_chr04	37039140	CC	TT	1946821014
SNP_P4_57662_37039143	NC_021163.1	Ca_kabuli_chr04	37039143	GG	AA	1946821016
SNP_P4_57664_37040396	NC_021163.1	Ca_kabuli_chr04	37040396	AA	GG	1946821018
SNP_P4_57666_37040495	NC_021163.1	Ca_kabuli_chr04	37040495	CC	TT	1946821020
SNP_P4_57667_37040843	NC_021163.1	Ca_kabuli_chr04	37040843	AA	GG	1946821022
SNP_P4_57668_37042574	NC_021163.1	Ca_kabuli_chr04	37042574	AA	GG	1946821024
SNP_P4_57669_37042596	NC_021163.1	Ca_kabuli_chr04	37042596	GG	AA	1946821026

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_57673_37044407	NC_021163.1	Ca_kabuli_chr04	37044407	TT	CC	1946821032
SNP_P4_57674_37044422	NC_021163.1	Ca_kabuli_chr04	37044422	GG	AA	1946821034
SNP_P4_57675_37044426	NC_021163.1	Ca_kabuli_chr04	37044426	GG	AA	1946821036
SNP_P4_57676_37044824	NC_021163.1	Ca_kabuli_chr04	37044824	AA	TT	1946821038
SNP_P4_57678_37045748	NC_021163.1	Ca_kabuli_chr04	37045748	GG	CC	1946821040
SNP_P4_57679_37045786	NC_021163.1	Ca_kabuli_chr04	37045786	CC	TT	1946821042
SNP_P4_57680_37046460	NC_021163.1	Ca_kabuli_chr04	37046460	AA	CC	1946821044
SNP_P4_57681_37046480	NC_021163.1	Ca_kabuli_chr04	37046480	TT	CC	1946821046
SNP_P4_57682_37046494	NC_021163.1	Ca_kabuli_chr04	37046494	TT	CC	1946821048
SNP_P4_57683_37046504	NC_021163.1	Ca_kabuli_chr04	37046504	TT	GG	1946821050
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SNP_P4_57685_37046902	NC_021163.1	Ca_kabuli_chr04	37046902	TT	CC	1946821054
SNP_P4_57686_37046928	NC_021163.1	Ca_kabuli_chr04	37046928	GG	TT	1946821056
SNP_P4_57687_37046965	NC_021163.1	Ca_kabuli_chr04	37046965	AA	GG	1946821058
SNP_P4_57688_37046976	NC_021163.1	Ca_kabuli_chr04	37046976	AA	GG	1946821061
SNP_P4_57690_37047160	NC_021163.1	Ca_kabuli_chr04	37047160	CC	TT	1946821063
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SNP_P4_57692_37047691	NC_021163.1	Ca_kabuli_chr04	37047691	AA	GG	1946821067
SNP_P4_57694_37047884	NC_021163.1	Ca_kabuli_chr04	37047884	GG	CC	1946821069
SNP_P4_57695_37047900	NC_021163.1	Ca_kabuli_chr04	37047900	TT	CC	1946821071
SNP_P4_57696_37047910	NC_021163.1	Ca_kabuli_chr04	37047910	GG	AA	1946821073
SNP_P4_57697_37047921	NC_021163.1	Ca_kabuli_chr04	37047921	AA	GG	1946821075
SNP_P4_57698_37047941	NC_021163.1	Ca_kabuli_chr04	37047941	TT	CC	1946821077
SNP_P4_57699_37048575	NC_021163.1	Ca_kabuli_chr04	37048575	GG	AA	1946821079
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SNP_P4_57701_37053239	NC_021163.1	Ca_kabuli_chr04	37053239	AA	GG	1946821083
SNP_P4_57702_37053245	NC_021163.1	Ca_kabuli_chr04	37053245	CC	AA	1946821085
SNP_P4_57703_37053377	NC_021163.1	Ca_kabuli_chr04	37053377	TT	AA	1946821087
SNP_P4_57704_37053732	NC_021163.1	Ca_kabuli_chr04	37053732	AA	CC	1946821089
SNP_P4_57705_37054979	NC_021163.1	Ca_kabuli_chr04	37054979	GG	TT	1946821091
SNP_P4_57706_37055197	NC_021163.1	Ca_kabuli_chr04	37055197	CC	GG	1946821093
SNP_P4_57707_37055205	NC_021163.1	Ca_kabuli_chr04	37055205	TT	GG	1946821095
SNP_P4_57708_37055267	NC_021163.1	Ca_kabuli_chr04	37055267	CC	TT	1946821098
SNP_P4_57709_37055334	NC_021163.1	Ca_kabuli_chr04	37055334	AA	GG	1946821100
SNP_P4_57711_37055521	NC_021163.1	Ca_kabuli_chr04	37055521	TT	AA	1946821102
SNP_P4_57713_37055597	NC_021163.1	Ca_kabuli_chr04	37055597	CC	TT	1946821104
SNP_P4_57714_37055923	NC_021163.1	Ca_kabuli_chr04	37055923	GG	AA	1946821106
SNP_P4_57717_37059633	NC_021163.1	Ca_kabuli_chr04	37059633	AA	GG	1946821108
SNP_P4_57719_37066032	NC_021163.1	Ca_kabuli_chr04	37066032	CC	TT	1946821110
SNP_P4_57720_37066082	NC_021163.1	Ca_kabuli_chr04	37066082	GG	TT	1946821112

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_57722_37070110	NC_021163.1	Ca_kabuli_chr04	37070110	CC	AA	1946821116
SNP_P4_57723_37070153	NC_021163.1	Ca_kabuli_chr04	37070153	TT	CC	1946821118
SNP_P4_57725_37070307	NC_021163.1	Ca_kabuli_chr04	37070307	TT	GG	1946821120
SNP_P4_57726_37076418	NC_021163.1	Ca_kabuli_chr04	37076418	TT	GG	1946821122
SNP_P4_57727_37076450	NC_021163.1	Ca_kabuli_chr04	37076450	TT	CC	1946821124
SNP_P4_57728_37076452	NC_021163.1	Ca_kabuli_chr04	37076452	GG	AA	1946821126
SNP_P4_57729_37076459	NC_021163.1	Ca_kabuli_chr04	37076459	TT	AA	1946821128
SNP_P4_57730_37076460	NC_021163.1	Ca_kabuli_chr04	37076460	CC	TT	1946821130
SNP_P4_57731_37082980	NC_021163.1	Ca_kabuli_chr04	37082980	AA	TT	1946821132
SNP_P4_57732_37083190	NC_021163.1	Ca_kabuli_chr04	37083190	AA	GG	1946821134
SNP_P4_57733_37083223	NC_021163.1	Ca_kabuli_chr04	37083223	TT	GG	1946821137
SNP_P4_57734_37083253	NC_021163.1	Ca_kabuli_chr04	37083253	CC	AA	1946821139
SNP_P4_57735_37083311	NC_021163.1	Ca_kabuli_chr04	37083311	TT	AA	1946821141
SNP_P4_57736_37083338	NC_021163.1	Ca_kabuli_chr04	37083338	AA	GG	1946821143
SNP_P4_57737_37086938	NC_021163.1	Ca_kabuli_chr04	37086938	AA	TT	1946821145
SNP_P4_57738_37086966	NC_021163.1	Ca_kabuli_chr04	37086966	AA	GG	1946821147
SNP_P4_57739_37087002	NC_021163.1	Ca_kabuli_chr04	37087002	TT	AA	1946821149
SNP_P4_57740_37087004	NC_021163.1	Ca_kabuli_chr04	37087004	AA	TT	1946821151
SNP_P4_57741_37087060	NC_021163.1	Ca_kabuli_chr04	37087060	AA	CC	1946821153
SNP_P4_57742_37087089	NC_021163.1	Ca_kabuli_chr04	37087089	CC	TT	1946821155
SNP_P4_57743_37087109	NC_021163.1	Ca_kabuli_chr04	37087109	AA	GG	1946821157
SNP_P4_57744_37087238	NC_021163.1	Ca_kabuli_chr04	37087238	CC	TT	1946821159
SNP_P4_57745_37087251	NC_021163.1	Ca_kabuli_chr04	37087251	CC	TT	1946821161
SNP_P4_57746_37087253	NC_021163.1	Ca_kabuli_chr04	37087253	CC	GG	1946821163
SNP_P4_57747_37087296	NC_021163.1	Ca_kabuli_chr04	37087296	AA	GG	1946821165
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SNP_P4_57750_37087822	NC_021163.1	Ca_kabuli_chr04	37087822	CC	TT	1946821171
SNP_P4_57751_37087827	NC_021163.1	Ca_kabuli_chr04	37087827	GG	TT	1946821173
SNP_P4_57752_37087845	NC_021163.1	Ca_kabuli_chr04	37087845	AA	GG	1946821175
SNP_P4_57753_37089503	NC_021163.1	Ca_kabuli_chr04	37089503	AA	TT	1946821177
SNP_P4_57754_37089555	NC_021163.1	Ca_kabuli_chr04	37089555	TT	CC	1946821179
SNP_P4_57755_37090359	NC_021163.1	Ca_kabuli_chr04	37090359	AA	GG	1946821181
SNP_P4_57756_37090724	NC_021163.1	Ca_kabuli_chr04	37090724	AA	TT	1946821183
SNP_P4_57757_37090739	NC_021163.1	Ca_kabuli_chr04	37090739	CC	TT	1946821185
SNP_P4_57758_37090766	NC_021163.1	Ca_kabuli_chr04	37090766	GG	AA	1946821187
SNP_P4_57759_37091640	NC_021163.1	Ca_kabuli_chr04	37091640	AA	GG	1946821189
SNP_P4_57761_37092069	NC_021163.1	Ca_kabuli_chr04	37092069	GG	AA	1946821191
SNP_P4_57762_37092098	NC_021163.1	Ca_kabuli_chr04	37092098	CC	GG	1946821193
SNP_P4_57763_37092109	NC_021163.1	Ca_kabuli_chr04	37092109	CC	TT	1946821195
SNP_P4_57764_37093415	NC_021163.1	Ca_kabuli_chr04	37093415	CC	AA	1946821197

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_57766_37095046	NC_021163.1	Ca_kabuli_chr04	37095046	CC	TT	1946821201
SNP_P4_57767_37095079	NC_021163.1	Ca_kabuli_chr04	37095079	GG	AA	1946821203
SNP_P4_57769_37096879	NC_021163.1	Ca_kabuli_chr04	37096879	TT	GG	1946821205
SNP_P4_57770_37098468	NC_021163.1	Ca_kabuli_chr04	37098468	CC	TT	1946821207
SNP_P4_57771_37099437	NC_021163.1	Ca_kabuli_chr04	37099437	GG	TT	1946821208
SNP_P4_57772_37099785	NC_021163.1	Ca_kabuli_chr04	37099785	AA	CC	1946821210
SNP_P4_57774_37099853	NC_021163.1	Ca_kabuli_chr04	37099853	TT	GG	1946821212
SNP_P4_57775_37099987	NC_021163.1	Ca_kabuli_chr04	37099987	GG	AA	1946821214
SNP_P4_57776_37100076	NC_021163.1	Ca_kabuli_chr04	37100076	CC	TT	1946821216
SNP_P4_57777_37100208	NC_021163.1	Ca_kabuli_chr04	37100208	GG	AA	1946821218
SNP_P4_57778_37100245	NC_021163.1	Ca_kabuli_chr04	37100245	TT	AA	1946821220
SNP_P4_57779_37100290	NC_021163.1	Ca_kabuli_chr04	37100290	TT	GG	1946821222
SNP_P4_57780_37100320	NC_021163.1	Ca_kabuli_chr04	37100320	GG	AA	1946821224
SNP_P4_57781_37100345	NC_021163.1	Ca_kabuli_chr04	37100345	CC	TT	1946821226
SNP_P4_57782_37100353	NC_021163.1	Ca_kabuli_chr04	37100353	CC	TT	1946821228
SNP_P4_57783_37100362	NC_021163.1	Ca_kabuli_chr04	37100362	AA	TT	1946821230
SNP_P4_57784_37100383	NC_021163.1	Ca_kabuli_chr04	37100383	CC	TT	1946821232
SNP_P4_57785_37101508	NC_021163.1	Ca_kabuli_chr04	37101508	GG	AA	1946821234
SNP_P4_57786_37101531	NC_021163.1	Ca_kabuli_chr04	37101531	GG	AA	1946821236
SNP_P4_57787_37101533	NC_021163.1	Ca_kabuli_chr04	37101533	CC	TT	1946821238
SNP_P4_57788_37101759	NC_021163.1	Ca_kabuli_chr04	37101759	AA	GG	1946821240
SNP_P4_57789_37101770	NC_021163.1	Ca_kabuli_chr04	37101770	GG	CC	1946821242
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SNP_P4_57792_37104423	NC_021163.1	Ca_kabuli_chr04	37104423	AA	TT	1946821248
SNP_P4_57793_37104453	NC_021163.1	Ca_kabuli_chr04	37104453	AA	GG	1946821250
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SNP_P4_57796_37104832	NC_021163.1	Ca_kabuli_chr04	37104832	TT	AA	1946821254
SNP_P4_57797_37105263	NC_021163.1	Ca_kabuli_chr04	37105263	CC	TT	1946821256
SNP_P4_57798_37105272	NC_021163.1	Ca_kabuli_chr04	37105272	GG	TT	1946821258
SNP_P4_57799_37105304	NC_021163.1	Ca_kabuli_chr04	37105304	GG	AA	1946821260
SNP_P4_57800_37105310	NC_021163.1	Ca_kabuli_chr04	37105310	TT	GG	1946821262
SNP_P4_57801_37105312	NC_021163.1	Ca_kabuli_chr04	37105312	TT	CC	1946821264
SNP_P4_57802_37105333	NC_021163.1	Ca_kabuli_chr04	37105333	AA	CC	1946821266
SNP_P4_57804_37105904	NC_021163.1	Ca_kabuli_chr04	37105904	GG	AA	1946821268
SNP_P4_57805_37106560	NC_021163.1	Ca_kabuli_chr04	37106560	AA	GG	1946821270
SNP_P4_57806_37106568	NC_021163.1	Ca_kabuli_chr04	37106568	GG	CC	1946821272
SNP_P4_57807_37106752	NC_021163.1	Ca_kabuli_chr04	37106752	GG	AA	1946821274
SNP_P4_57808_37106758	NC_021163.1	Ca_kabuli_chr04	37106758	CC	TT	1946821276
SNP_P4_57809_37106812	NC_021163.1	Ca_kabuli_chr04	37106812	TT	CC	1946821278
SNP_P4_57810_37107167	NC_021163.1	Ca_kabuli_chr04	37107167	CC	TT	1946821280

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_57813_37107262	NC_021163.1	Ca_kabuli_chr04	37107262	AA	GG	1946821285
SNP_P4_57814_37107266	NC_021163.1	Ca_kabuli_chr04	37107266	CC	AA	1946821287
SNP_P4_57815_37107505	NC_021163.1	Ca_kabuli_chr04	37107505	TT	GG	1946821289
SNP_P4_57817_37107776	NC_021163.1	Ca_kabuli_chr04	37107776	TT	CC	1946821291
SNP_P4_57818_37107791	NC_021163.1	Ca_kabuli_chr04	37107791	AA	GG	1946821293
SNP_P4_57820_37107873	NC_021163.1	Ca_kabuli_chr04	37107873	CC	TT	1946821295
SNP_P4_57821_37107904	NC_021163.1	Ca_kabuli_chr04	37107904	TT	GG	1946821297
SNP_P4_57822_37107948	NC_021163.1	Ca_kabuli_chr04	37107948	CC	TT	1946821299
SNP_P4_57823_37108072	NC_021163.1	Ca_kabuli_chr04	37108072	TT	GG	1946821301
SNP_P4_57825_37108422	NC_021163.1	Ca_kabuli_chr04	37108422	TT	GG	1946821304
SNP_P4_57826_37108449	NC_021163.1	Ca_kabuli_chr04	37108449	AA	CC	1946821306
SNP_P4_57827_37108503	NC_021163.1	Ca_kabuli_chr04	37108503	CC	TT	1946821308
SNP_P4_57828_37108721	NC_021163.1	Ca_kabuli_chr04	37108721	CC	TT	1946821310
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SNP_P4_57830_37109183	NC_021163.1	Ca_kabuli_chr04	37109183	TT	CC	1946821314
SNP_P4_57831_37109190	NC_021163.1	Ca_kabuli_chr04	37109190	CC	TT	1946821316
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SNP_P4_57834_37109393	NC_021163.1	Ca_kabuli_chr04	37109393	GG	AA	1946821322
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SNP_P4_57842_37109620	NC_021163.1	Ca_kabuli_chr04	37109620	GG	AA	1946821338
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SNP_P4_57845_37110282	NC_021163.1	Ca_kabuli_chr04	37110282	CC	TT	1946821344
SNP_P4_57847_37110323	NC_021163.1	Ca_kabuli_chr04	37110323	AA	CC	1946821346
SNP_P4_57848_37117810	NC_021163.1	Ca_kabuli_chr04	37117810	CC	TT	1946821348
SNP_P4_57849_37119583	NC_021163.1	Ca_kabuli_chr04	37119583	TT	AA	1946821350
SNP_P4_57850_37119655	NC_021163.1	Ca_kabuli_chr04	37119655	AA	GG	1946821351
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SNP_P4_57854_37120017	NC_021163.1	Ca_kabuli_chr04	37120017	AA	CC	1946821355
SNP_P4_57855_37121352	NC_021163.1	Ca_kabuli_chr04	37121352	AA	GG	1946821357
SNP_P4_57856_37121485	NC_021163.1	Ca_kabuli_chr04	37121485	AA	TT	1946821359
SNP_P4_57857_37121517	NC_021163.1	Ca_kabuli_chr04	37121517	TT	AA	1946821361
SNP_P4_57858_37121735	NC_021163.1	Ca_kabuli_chr04	37121735	TT	CC	1946821363
SNP_P4_57859_37121771	NC_021163.1	Ca_kabuli_chr04	37121771	CC	TT	1946821365

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_57863_37127646	NC_021163.1	Ca_kabuli_chr04	37127646	CC	GG	1946821371
SNP_P4_57864_37127672	NC_021163.1	Ca_kabuli_chr04	37127672	CC	TT	1946821373
SNP_P4_57865_37128566	NC_021163.1	Ca_kabuli_chr04	37128566	GG	AA	1946821375
SNP_P4_57866_37128760	NC_021163.1	Ca_kabuli_chr04	37128760	GG	TT	1946821377
SNP_P4_57868_37128899	NC_021163.1	Ca_kabuli_chr04	37128899	AA	TT	1946821379
SNP_P4_57869_37128904	NC_021163.1	Ca_kabuli_chr04	37128904	GG	TT	1946821381
SNP_P4_57871_37130941	NC_021163.1	Ca_kabuli_chr04	37130941	TT	GG	1946821383
SNP_P4_57872_37131123	NC_021163.1	Ca_kabuli_chr04	37131123	GG	AA	1946821385
SNP_P4_57873_37131157	NC_021163.1	Ca_kabuli_chr04	37131157	CC	TT	1946821387
SNP_P4_57874_37131175	NC_021163.1	Ca_kabuli_chr04	37131175	AA	GG	1946821388
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SNP_P4_57878_37131249	NC_021163.1	Ca_kabuli_chr04	37131249	GG	AA	1946821394
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SNP_P4_57881_37131343	NC_021163.1	Ca_kabuli_chr04	37131343	GG	AA	1946821398
SNP_P4_57884_37146456	NC_021163.1	Ca_kabuli_chr04	37146456	CC	TT	1946821400
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SNP_P4_57887_37151444	NC_021163.1	Ca_kabuli_chr04	37151444	AA	GG	1946821404
SNP_P4_57888_37151985	NC_021163.1	Ca_kabuli_chr04	37151985	GG	AA	1946821406
SNP_P4_57889_37155245	NC_021163.1	Ca_kabuli_chr04	37155245	CC	GG	1946821408
SNP_P4_57892_37156946	NC_021163.1	Ca_kabuli_chr04	37156946	CC	AA	1946821410
SNP_P4_57893_37157237	NC_021163.1	Ca_kabuli_chr04	37157237	CC	TT	1946821412
SNP_P4_57894_37157247	NC_021163.1	Ca_kabuli_chr04	37157247	AA	GG	1946821414
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SNP_P4_57899_37160346	NC_021163.1	Ca_kabuli_chr04	37160346	GG	AA	1946821424
SNP_P4_57900_37160622	NC_021163.1	Ca_kabuli_chr04	37160622	TT	CC	1946821426
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SNP_P4_57902_37161313	NC_021163.1	Ca_kabuli_chr04	37161313	AA	GG	1946821430
SNP_P4_57903_37166949	NC_021163.1	Ca_kabuli_chr04	37166949	CC	TT	1946821432
SNP_P4_57904_37168284	NC_021163.1	Ca_kabuli_chr04	37168284	AA	GG	1946821434
SNP_P4_57905_37173240	NC_021163.1	Ca_kabuli_chr04	37173240	TT	AA	1946821436
SNP_P4_57906_37174254	NC_021163.1	Ca_kabuli_chr04	37174254	AA	GG	1946821438
SNP_P4_57908_37176632	NC_021163.1	Ca_kabuli_chr04	37176632	TT	GG	1946821440
SNP_P4_57909_37181965	NC_021163.1	Ca_kabuli_chr04	37181965	GG	AA	1946821442
SNP_P4_57910_37182619	NC_021163.1	Ca_kabuli_chr04	37182619	AA	GG	1946821444
SNP_P4_57911_37185703	NC_021163.1	Ca_kabuli_chr04	37185703	AA	GG	1946821446
SNP_P4_57912_37185725	NC_021163.1	Ca_kabuli_chr04	37185725	TT	CC	1946821448

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_57913_37187512	NC_021163.1	Ca_kabuli_chr04	37187512	CC	TT	1946821450
SNP_P4_57914_37187656	NC_021163.1	Ca_kabuli_chr04	37187656	AA	TT	1946821452
SNP_P4_57916_37189167	NC_021163.1	Ca_kabuli_chr04	37189167	AA	CC	1946821454
SNP_P4_57917_37190011	NC_021163.1	Ca_kabuli_chr04	37190011	TT	CC	1946821456
SNP_P4_57919_37194350	NC_021163.1	Ca_kabuli_chr04	37194350	TT	CC	1946821458
SNP_P4_57920_37194370	NC_021163.1	Ca_kabuli_chr04	37194370	AA	CC	1946821461
SNP_P4_57921_37195137	NC_021163.1	Ca_kabuli_chr04	37195137	CC	TT	1946821463
SNP_P4_57922_37195890	NC_021163.1	Ca_kabuli_chr04	37195890	AA	CC	1946821465
SNP_P4_57923_37196919	NC_021163.1	Ca_kabuli_chr04	37196919	AA	CC	1946821467
SNP_P4_57925_37197688	NC_021163.1	Ca_kabuli_chr04	37197688	AA	GG	1946821469
SNP_P4_57926_37198828	NC_021163.1	Ca_kabuli_chr04	37198828	CC	TT	1946821471
SNP_P4_57927_37200514	NC_021163.1	Ca_kabuli_chr04	37200514	AA	GG	1946821473
SNP_P4_57928_37200567	NC_021163.1	Ca_kabuli_chr04	37200567	AA	GG	1946821475
SNP_P4_57929_37200796	NC_021163.1	Ca_kabuli_chr04	37200796	AA	CC	1946821477
SNP_P4_57930_37200983	NC_021163.1	Ca_kabuli_chr04	37200983	GG	AA	1946821479
SNP_P4_57932_37202637	NC_021163.1	Ca_kabuli_chr04	37202637	AA	TT	1946821481
SNP_P4_57934_37203575	NC_021163.1	Ca_kabuli_chr04	37203575	TT	AA	1946821483
SNP_P4_57936_37203820	NC_021163.1	Ca_kabuli_chr04	37203820	TT	AA	1946821485
SNP_P4_57937_37203996	NC_021163.1	Ca_kabuli_chr04	37203996	AA	TT	1946821487
SNP_P4_57939_37204019	NC_021163.1	Ca_kabuli_chr04	37204019	TT	GG	1946821489
SNP_P4_57940_37204450	NC_021163.1	Ca_kabuli_chr04	37204450	CC	TT	1946821491
SNP_P4_57941_37204768	NC_021163.1	Ca_kabuli_chr04	37204768	CC	AA	1946821493
SNP_P4_57942_37204792	NC_021163.1	Ca_kabuli_chr04	37204792	TT	AA	1946821495
SNP_P4_57943_37204812	NC_021163.1	Ca_kabuli_chr04	37204812	CC	GG	1946821497
SNP_P4_57944_37204823	NC_021163.1	Ca_kabuli_chr04	37204823	TT	CC	1946821499
SNP_P4_57945_37205316	NC_021163.1	Ca_kabuli_chr04	37205316	AA	TT	1946821501
SNP_P4_57946_37206016	NC_021163.1	Ca_kabuli_chr04	37206016	TT	GG	1946821503
SNP_P4_57947_37206035	NC_021163.1	Ca_kabuli_chr04	37206035	GG	AA	1946821505
SNP_P4_57948_37206036	NC_021163.1	Ca_kabuli_chr04	37206036	CC	TT	1946821507
SNP_P4_57949_37206073	NC_021163.1	Ca_kabuli_chr04	37206073	CC	TT	1946821509
SNP_P4_57950_37206819	NC_021163.1	Ca_kabuli_chr04	37206819	CC	AA	1946821511
SNP_P4_57951_37206920	NC_021163.1	Ca_kabuli_chr04	37206920	AA	TT	1946821513
SNP_P4_57952_37207660	NC_021163.1	Ca_kabuli_chr04	37207660	TT	GG	1946821516
SNP_P4_57953_37207873	NC_021163.1	Ca_kabuli_chr04	37207873	AA	CC	1946821518
SNP_P4_57954_37208216	NC_021163.1	Ca_kabuli_chr04	37208216	TT	CC	1946821520
SNP_P4_57955_37209039	NC_021163.1	Ca_kabuli_chr04	37209039	TT	AA	1946821522
SNP_P4_57956_37209768	NC_021163.1	Ca_kabuli_chr04	37209768	AA	GG	1946821524
SNP_P4_57957_37213603	NC_021163.1	Ca_kabuli_chr04	37213603	TT	AA	1946821526
SNP_P4_57958_37214796	NC_021163.1	Ca_kabuli_chr04	37214796	GG	AA	1946821528
SNP_P4_57959_37214843	NC_021163.1	Ca_kabuli_chr04	37214843	GG	AA	1946821530
SNP_P4_57960_37214847	NC_021163.1	Ca_kabuli_chr04	37214847	GG	AA	1946821532
SNP_P4_57961_37214859	NC_021163.1	Ca_kabuli_chr04	37214859	CC	TT	1946821534

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_57963_37215735	NC_021163.1	Ca_kabuli_chr04	37215735	AA	GG	1946821538
SNP_P4_57964_37215825	NC_021163.1	Ca_kabuli_chr04	37215825	TT	CC	1946821540
SNP_P4_57965_37215833	NC_021163.1	Ca_kabuli_chr04	37215833	AA	TT	1946821542
SNP_P4_57966_37215872	NC_021163.1	Ca_kabuli_chr04	37215872	CC	TT	1946821544
SNP_P4_57967_37216152	NC_021163.1	Ca_kabuli_chr04	37216152	TT	AA	1946821546
SNP_P4_57968_37216835	NC_021163.1	Ca_kabuli_chr04	37216835	TT	CC	1946821548
SNP_P4_57969_37216919	NC_021163.1	Ca_kabuli_chr04	37216919	AA	TT	1946821550
SNP_P4_57970_37217115	NC_021163.1	Ca_kabuli_chr04	37217115	CC	TT	1946821552
SNP_P4_57971_37217146	NC_021163.1	Ca_kabuli_chr04	37217146	AA	TT	1946821554
SNP_P4_57972_37217494	NC_021163.1	Ca_kabuli_chr04	37217494	CC	TT	1946821557
SNP_P4_57973_37217500	NC_021163.1	Ca_kabuli_chr04	37217500	CC	AA	1946821559
SNP_P4_57974_37217535	NC_021163.1	Ca_kabuli_chr04	37217535	GG	TT	1946821561
SNP_P4_57975_37217760	NC_021163.1	Ca_kabuli_chr04	37217760	GG	TT	1946821563
SNP_P4_57976_37217832	NC_021163.1	Ca_kabuli_chr04	37217832	TT	CC	1946821565
SNP_P4_57977_37217833	NC_021163.1	Ca_kabuli_chr04	37217833	GG	AA	1946821567
SNP_P4_57978_37218017	NC_021163.1	Ca_kabuli_chr04	37218017	AA	GG	1946821569
SNP_P4_57979_37218023	NC_021163.1	Ca_kabuli_chr04	37218023	CC	TT	1946821571
SNP_P4_57980_37218241	NC_021163.1	Ca_kabuli_chr04	37218241	CC	TT	1946821573
SNP_P4_57981_37218263	NC_021163.1	Ca_kabuli_chr04	37218263	AA	GG	1946821575
SNP_P4_57982_37218278	NC_021163.1	Ca_kabuli_chr04	37218278	CC	AA	1946821577
SNP_P4_57983_37218296	NC_021163.1	Ca_kabuli_chr04	37218296	GG	AA	1946821579
SNP_P4_57984_37218367	NC_021163.1	Ca_kabuli_chr04	37218367	TT	CC	1946821581
SNP_P4_57985_37219116	NC_021163.1	Ca_kabuli_chr04	37219116	TT	AA	1946821583
SNP_P4_57986_37219188	NC_021163.1	Ca_kabuli_chr04	37219188	AA	GG	1946821585
SNP_P4_57987_37219219	NC_021163.1	Ca_kabuli_chr04	37219219	CC	TT	1946821587
SNP_P4_57988_37219303	NC_021163.1	Ca_kabuli_chr04	37219303	CC	TT	1946821589
SNP_P4_57989_37220339	NC_021163.1	Ca_kabuli_chr04	37220339	CC	TT	1946821591
SNP_P4_57990_37220563	NC_021163.1	Ca_kabuli_chr04	37220563	GG	AA	1946821593
SNP_P4_57991_37220588	NC_021163.1	Ca_kabuli_chr04	37220588	GG	AA	1946821595
SNP_P4_57992_37220621	NC_021163.1	Ca_kabuli_chr04	37220621	CC	TT	1946821597
SNP_P4_57993_37220670	NC_021163.1	Ca_kabuli_chr04	37220670	GG	AA	1946821599
SNP_P4_57994_37220672	NC_021163.1	Ca_kabuli_chr04	37220672	TT	AA	1946821601
SNP_P4_57995_37220964	NC_021163.1	Ca_kabuli_chr04	37220964	CC	AA	1946821603
SNP_P4_57997_37221271	NC_021163.1	Ca_kabuli_chr04	37221271	AA	GG	1946821605
SNP_P4_57998_37221283	NC_021163.1	Ca_kabuli_chr04	37221283	GG	AA	1946821607
SNP_P4_58000_37222460	NC_021163.1	Ca_kabuli_chr04	37222460	AA	TT	1946821609
SNP_P4_58001_37222520	NC_021163.1	Ca_kabuli_chr04	37222520	CC	AA	1946821611
SNP_P4_58002_37222538	NC_021163.1	Ca_kabuli_chr04	37222538	GG	AA	1946821613
SNP_P4_58003_37222848	NC_021163.1	Ca_kabuli_chr04	37222848	CC	AA	1946821614
SNP_P4_58004_37223630	NC_021163.1	Ca_kabuli_chr04	37223630	GG	TT	1946821616
SNP_P4_58005_37223670	NC_021163.1	Ca_kabuli_chr04	37223670	CC	AA	1946821618

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_58006_37224825	NC_021163.1	Ca_kabuli_chr04	37224825	AA	GG	1946821620
SNP_P4_58007_37227809	NC_021163.1	Ca_kabuli_chr04	37227809	TT	CC	1946821622
SNP_P4_58008_37229598	NC_021163.1	Ca_kabuli_chr04	37229598	GG	AA	1946821624
SNP_P4_58009_37229929	NC_021163.1	Ca_kabuli_chr04	37229929	AA	GG	1946821626
SNP_P4_58010_37230325	NC_021163.1	Ca_kabuli_chr04	37230325	CC	AA	1946821627
SNP_P4_58011_37230740	NC_021163.1	Ca_kabuli_chr04	37230740	AA	GG	1946821628
SNP_P4_58012_37230791	NC_021163.1	Ca_kabuli_chr04	37230791	AA	GG	1946821629
SNP_P4_58013_37231008	NC_021163.1	Ca_kabuli_chr04	37231008	GG	AA	1946821630
SNP_P4_58014_37231243	NC_021163.1	Ca_kabuli_chr04	37231243	TT	CC	1946821631
SNP_P4_58015_37232639	NC_021163.1	Ca_kabuli_chr04	37232639	AA	GG	1946821632
SNP_P4_58016_37232848	NC_021163.1	Ca_kabuli_chr04	37232848	TT	GG	1946821633
SNP_P4_58017_37233057	NC_021163.1	Ca_kabuli_chr04	37233057	CC	AA	1946821634
SNP_P4_58018_37233130	NC_021163.1	Ca_kabuli_chr04	37233130	AA	GG	1946821636
SNP_P4_58019_37233988	NC_021163.1	Ca_kabuli_chr04	37233988	CC	GG	1946821638
SNP_P4_58020_37234977	NC_021163.1	Ca_kabuli_chr04	37234977	AA	GG	1946821640
SNP_P4_58021_37235370	NC_021163.1	Ca_kabuli_chr04	37235370	AA	TT	1946821642
SNP_P4_58022_37235393	NC_021163.1	Ca_kabuli_chr04	37235393	TT	CC	1946821644
SNP_P4_58023_37235394	NC_021163.1	Ca_kabuli_chr04	37235394	AA	GG	1946821646
SNP_P4_58024_37235541	NC_021163.1	Ca_kabuli_chr04	37235541	GG	AA	1946821648
SNP_P4_58025_37238323	NC_021163.1	Ca_kabuli_chr04	37238323	AA	GG	1946821650
SNP_P4_58026_37239566	NC_021163.1	Ca_kabuli_chr04	37239566	CC	AA	1946821652
SNP_P4_58027_37241235	NC_021163.1	Ca_kabuli_chr04	37241235	GG	AA	1946821654
SNP_P4_58028_37242851	NC_021163.1	Ca_kabuli_chr04	37242851	CC	AA	1946821656
SNP_P4_58029_37242861	NC_021163.1	Ca_kabuli_chr04	37242861	CC	TT	1946821658
SNP_P4_58030_37242862	NC_021163.1	Ca_kabuli_chr04	37242862	AA	TT	1946821660
SNP_P4_58031_37242902	NC_021163.1	Ca_kabuli_chr04	37242902	CC	AA	1946821662
SNP_P4_58033_37245293	NC_021163.1	Ca_kabuli_chr04	37245293	AA	GG	1946821664
SNP_P4_58034_37246314	NC_021163.1	Ca_kabuli_chr04	37246314	AA	TT	1946821666
SNP_P4_58035_37247305	NC_021163.1	Ca_kabuli_chr04	37247305	GG	AA	1946821668
SNP_P4_58036_37247473	NC_021163.1	Ca_kabuli_chr04	37247473	GG	AA	1946821670
SNP_P4_58037_37247493	NC_021163.1	Ca_kabuli_chr04	37247493	TT	GG	1946821672
SNP_P4_58038_37247533	NC_021163.1	Ca_kabuli_chr04	37247533	GG	AA	1946821674
SNP_P4_58039_37248915	NC_021163.1	Ca_kabuli_chr04	37248915	TT	CC	1946821676
SNP_P4_58040_37248916	NC_021163.1	Ca_kabuli_chr04	37248916	GG	AA	1946821678
SNP_P4_58041_37249207	NC_021163.1	Ca_kabuli_chr04	37249207	AA	CC	1946821680
SNP_P4_58043_37253114	NC_021163.1	Ca_kabuli_chr04	37253114	GG	CC	1946821682
SNP_P4_58044_37254302	NC_021163.1	Ca_kabuli_chr04	37254302	CC	TT	1946821684
SNP_P4_58045_37255462	NC_021163.1	Ca_kabuli_chr04	37255462	AA	GG	1946821686
SNP_P4_58046_37257730	NC_021163.1	Ca_kabuli_chr04	37257730	AA	GG	1946821688
SNP_P4_58047_37257750	NC_021163.1	Ca_kabuli_chr04	37257750	GG	AA	1946821690
SNP_P4_58048_37257834	NC_021163.1	Ca_kabuli_chr04	37257834	GG	AA	1946821692
SNP_P4_58049_37257955	NC_021163.1	Ca_kabuli_chr04	37257955	TT	CC	1946821694

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_58051_37258904	NC_021163.1	Ca_kabuli_chr04	37258904	AA	TT	1946821698
SNP_P4_58052_37258905	NC_021163.1	Ca_kabuli_chr04	37258905	AA	TT	1946821700
SNP_P4_58053_37261270	NC_021163.1	Ca_kabuli_chr04	37261270	TT	CC	1946821702
SNP_P4_58054_37265638	NC_021163.1	Ca_kabuli_chr04	37265638	TT	CC	1946821704
SNP_P4_58055_37267144	NC_021163.1	Ca_kabuli_chr04	37267144	GG	CC	1946821706
SNP_P4_58056_37267364	NC_021163.1	Ca_kabuli_chr04	37267364	CC	TT	1946821708
SNP_P4_58058_37270022	NC_021163.1	Ca_kabuli_chr04	37270022	GG	CC	1946821710
SNP_P4_58059_37270527	NC_021163.1	Ca_kabuli_chr04	37270527	CC	AA	1946821712
SNP_P4_58060_37270704	NC_021163.1	Ca_kabuli_chr04	37270704	AA	TT	1946821714
SNP_P4_58062_37273260	NC_021163.1	Ca_kabuli_chr04	37273260	AA	TT	1946821716
SNP_P4_58063_37273592	NC_021163.1	Ca_kabuli_chr04	37273592	TT	CC	1946821718
SNP_P4_58064_37273671	NC_021163.1	Ca_kabuli_chr04	37273671	CC	AA	1946821720
SNP_P4_58065_37274931	NC_021163.1	Ca_kabuli_chr04	37274931	CC	TT	1946821723
SNP_P4_58066_37276789	NC_021163.1	Ca_kabuli_chr04	37276789	CC	TT	1946821725
SNP_P4_58067_37277188	NC_021163.1	Ca_kabuli_chr04	37277188	AA	CC	1946821727
SNP_P4_58068_37278266	NC_021163.1	Ca_kabuli_chr04	37278266	AA	TT	1946821729
SNP_P4_58069_37281053	NC_021163.1	Ca_kabuli_chr04	37281053	TT	AA	1946821731
SNP_P4_58070_37281072	NC_021163.1	Ca_kabuli_chr04	37281072	AA	CC	1946821733
SNP_P4_58071_37281184	NC_021163.1	Ca_kabuli_chr04	37281184	GG	TT	1946821735
SNP_P4_58072_37281257	NC_021163.1	Ca_kabuli_chr04	37281257	CC	GG	1946821737
SNP_P4_58073_37281327	NC_021163.1	Ca_kabuli_chr04	37281327	GG	AA	1946821739
SNP_P4_58074_37281328	NC_021163.1	Ca_kabuli_chr04	37281328	AA	TT	1946821741
SNP_P4_58075_37281360	NC_021163.1	Ca_kabuli_chr04	37281360	TT	GG	1946821743
SNP_P4_58076_37281362	NC_021163.1	Ca_kabuli_chr04	37281362	AA	TT	1946821745
SNP_P4_58077_37281381	NC_021163.1	Ca_kabuli_chr04	37281381	TT	CC	1946821747
SNP_P4_58078_37281401	NC_021163.1	Ca_kabuli_chr04	37281401	TT	AA	1946821749
SNP_P4_58079_37281404	NC_021163.1	Ca_kabuli_chr04	37281404	TT	GG	1946821751
SNP_P4_58080_37281414	NC_021163.1	Ca_kabuli_chr04	37281414	CC	TT	1946821753
SNP_P4_58081_37281418	NC_021163.1	Ca_kabuli_chr04	37281418	GG	TT	1946821756
SNP_P4_58082_37281420	NC_021163.1	Ca_kabuli_chr04	37281420	TT	GG	1946821758
SNP_P4_58083_37281423	NC_021163.1	Ca_kabuli_chr04	37281423	CC	TT	1946821760
SNP_P4_58084_37281431	NC_021163.1	Ca_kabuli_chr04	37281431	CC	TT	1946821762
SNP_P4_58085_37281534	NC_021163.1	Ca_kabuli_chr04	37281534	GG	AA	1946821764
SNP_P4_58086_37282754	NC_021163.1	Ca_kabuli_chr04	37282754	CC	TT	1946821766
SNP_P4_58087_37282858	NC_021163.1	Ca_kabuli_chr04	37282858	TT	CC	1946821768
SNP_P4_58088_37283141	NC_021163.1	Ca_kabuli_chr04	37283141	CC	GG	1946821770
SNP_P4_58089_37283160	NC_021163.1	Ca_kabuli_chr04	37283160	TT	AA	1946821772
SNP_P4_58091_37283568	NC_021163.1	Ca_kabuli_chr04	37283568	GG	AA	1946821774
SNP_P4_58092_37285405	NC_021163.1	Ca_kabuli_chr04	37285405	TT	CC	1946821776
SNP_P4_58093_37292735	NC_021163.1	Ca_kabuli_chr04	37292735	GG	AA	1946821778
SNP_P4_58094_37293540	NC_021163.1	Ca_kabuli_chr04	37293540	GG	AA	1946821780

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_58097_37294396	NC_021163.1	Ca_kabuli_chr04	37294396	GG	AA	1946821784
SNP_P4_58098_37295317	NC_021163.1	Ca_kabuli_chr04	37295317	GG	AA	1946821786
SNP_P4_58099_37299244	NC_021163.1	Ca_kabuli_chr04	37299244	CC	TT	1946821788
SNP_P4_58100_37299288	NC_021163.1	Ca_kabuli_chr04	37299288	TT	GG	1946821790
SNP_P4_58102_37300412	NC_021163.1	Ca_kabuli_chr04	37300412	AA	GG	1946821792
SNP_P4_58103_37300654	NC_021163.1	Ca_kabuli_chr04	37300654	TT	CC	1946821794
SNP_P4_58104_37300968	NC_021163.1	Ca_kabuli_chr04	37300968	TT	CC	1946821796
SNP_P4_58105_37301927	NC_021163.1	Ca_kabuli_chr04	37301927	CC	AA	1946821798
SNP_P4_58106_37302378	NC_021163.1	Ca_kabuli_chr04	37302378	GG	AA	1946821800
SNP_P4_58107_37302380	NC_021163.1	Ca_kabuli_chr04	37302380	CC	AA	1946821802
SNP_P4_58108_37302400	NC_021163.1	Ca_kabuli_chr04	37302400	TT	AA	1946821804
SNP_P4_58109_37302429	NC_021163.1	Ca_kabuli_chr04	37302429	CC	TT	1946821806
SNP_P4_58110_37303011	NC_021163.1	Ca_kabuli_chr04	37303011	AA	GG	1946821809
SNP_P4_58111_37303016	NC_021163.1	Ca_kabuli_chr04	37303016	GG	TT	1946821811
SNP_P4_58112_37303017	NC_021163.1	Ca_kabuli_chr04	37303017	CC	TT	1946821813
SNP_P4_58113_37303094	NC_021163.1	Ca_kabuli_chr04	37303094	TT	CC	1946821815
SNP_P4_58114_37303203	NC_021163.1	Ca_kabuli_chr04	37303203	TT	CC	1946821817
SNP_P4_58116_37304993	NC_021163.1	Ca_kabuli_chr04	37304993	GG	AA	1946821819
SNP_P4_58117_37304998	NC_021163.1	Ca_kabuli_chr04	37304998	CC	TT	1946821821
SNP_P4_58118_37305121	NC_021163.1	Ca_kabuli_chr04	37305121	CC	TT	1946821823
SNP_P4_58119_37305260	NC_021163.1	Ca_kabuli_chr04	37305260	GG	AA	1946821825
SNP_P4_58120_37305278	NC_021163.1	Ca_kabuli_chr04	37305278	AA	TT	1946821827
SNP_P4_58121_37305281	NC_021163.1	Ca_kabuli_chr04	37305281	TT	AA	1946821829
SNP_P4_58122_37305322	NC_021163.1	Ca_kabuli_chr04	37305322	AA	GG	1946821831
SNP_P4_58123_37305358	NC_021163.1	Ca_kabuli_chr04	37305358	CC	GG	1946821833
SNP_P4_58124_37305431	NC_021163.1	Ca_kabuli_chr04	37305431	TT	AA	1946821835
SNP_P4_58125_37305476	NC_021163.1	Ca_kabuli_chr04	37305476	AA	CC	1946821837
SNP_P4_58126_37305495	NC_021163.1	Ca_kabuli_chr04	37305495	GG	AA	1946821839
SNP_P4_58128_37305795	NC_021163.1	Ca_kabuli_chr04	37305795	GG	AA	1946821841
SNP_P4_58129_37306266	NC_021163.1	Ca_kabuli_chr04	37306266	CC	TT	1946821843
SNP_P4_58131_37306642	NC_021163.1	Ca_kabuli_chr04	37306642	GG	CC	1946821845
SNP_P4_58132_37306648	NC_021163.1	Ca_kabuli_chr04	37306648	GG	AA	1946821847
SNP_P4_58133_37306650	NC_021163.1	Ca_kabuli_chr04	37306650	AA	GG	1946821849
SNP_P4_58134_37306654	NC_021163.1	Ca_kabuli_chr04	37306654	CC	TT	1946821851
SNP_P4_58135_37306672	NC_021163.1	Ca_kabuli_chr04	37306672	GG	AA	1946821853
SNP_P4_58136_37306692	NC_021163.1	Ca_kabuli_chr04	37306692	TT	CC	1946821855
SNP_P4_58137_37306694	NC_021163.1	Ca_kabuli_chr04	37306694	GG	AA	1946821857
SNP_P4_58138_37306768	NC_021163.1	Ca_kabuli_chr04	37306768	TT	CC	1946821859
SNP_P4_58139_37306782	NC_021163.1	Ca_kabuli_chr04	37306782	CC	TT	1946821861
SNP_P4_58140_37306824	NC_021163.1	Ca_kabuli_chr04	37306824	TT	CC	1946821863
SNP_P4_58141_37306832	NC_021163.1	Ca_kabuli_chr04	37306832	GG	CC	1946821865

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_58143_37308090	NC_021163.1	Ca_kabuli_chr04	37308090	GG	TT	1946821869
SNP_P4_58144_37308122	NC_021163.1	Ca_kabuli_chr04	37308122	GG	AA	1946821871
SNP_P4_58145_37308123	NC_021163.1	Ca_kabuli_chr04	37308123	CC	TT	1946821873
SNP_P4_58146_37308247	NC_021163.1	Ca_kabuli_chr04	37308247	AA	TT	1946821876
SNP_P4_58149_37308895	NC_021163.1	Ca_kabuli_chr04	37308895	GG	CC	1946821878
SNP_P4_58150_37309151	NC_021163.1	Ca_kabuli_chr04	37309151	GG	AA	1946821880
SNP_P4_58151_37309168	NC_021163.1	Ca_kabuli_chr04	37309168	GG	TT	1946821882
SNP_P4_58152_37309178	NC_021163.1	Ca_kabuli_chr04	37309178	GG	AA	1946821884
SNP_P4_58153_37309204	NC_021163.1	Ca_kabuli_chr04	37309204	TT	CC	1946821886
SNP_P4_58154_37309208	NC_021163.1	Ca_kabuli_chr04	37309208	CC	TT	1946821888
SNP_P4_58155_37312730	NC_021163.1	Ca_kabuli_chr04	37312730	TT	AA	1946821890
SNP_P4_58156_37312757	NC_021163.1	Ca_kabuli_chr04	37312757	AA	GG	1946821892
SNP_P4_58157_37312778	NC_021163.1	Ca_kabuli_chr04	37312778	TT	CC	1946821894
SNP_P4_58158_37313067	NC_021163.1	Ca_kabuli_chr04	37313067	TT	CC	1946821896
SNP_P4_58159_37313372	NC_021163.1	Ca_kabuli_chr04	37313372	AA	GG	1946821898
SNP_P4_58160_37315239	NC_021163.1	Ca_kabuli_chr04	37315239	CC	TT	1946821900
SNP_P4_58161_37317069	NC_021163.1	Ca_kabuli_chr04	37317069	AA	GG	1946821902
SNP_P4_58162_37317463	NC_021163.1	Ca_kabuli_chr04	37317463	AA	GG	1946821904
SNP_P4_58163_37317591	NC_021163.1	Ca_kabuli_chr04	37317591	AA	GG	1946821906
SNP_P4_58164_37317609	NC_021163.1	Ca_kabuli_chr04	37317609	TT	CC	1946821908
SNP_P4_58165_37317834	NC_021163.1	Ca_kabuli_chr04	37317834	AA	TT	1946821910
SNP_P4_58166_37317922	NC_021163.1	Ca_kabuli_chr04	37317922	TT	CC	1946821912
SNP_P4_58167_37318004	NC_021163.1	Ca_kabuli_chr04	37318004	CC	TT	1946821914
SNP_P4_58168_37318006	NC_021163.1	Ca_kabuli_chr04	37318006	TT	CC	1946821916
SNP_P4_58169_37318025	NC_021163.1	Ca_kabuli_chr04	37318025	AA	CC	1946821918
SNP_P4_58170_37318368	NC_021163.1	Ca_kabuli_chr04	37318368	AA	GG	1946821920
SNP_P4_58171_37318546	NC_021163.1	Ca_kabuli_chr04	37318546	CC	AA	1946821922
SNP_P4_58172_37318602	NC_021163.1	Ca_kabuli_chr04	37318602	GG	AA	1946821924
SNP_P4_58173_37329069	NC_021163.1	Ca_kabuli_chr04	37329069	AA	GG	1946821926
SNP_P4_58174_37329111	NC_021163.1	Ca_kabuli_chr04	37329111	TT	CC	1946821928
SNP_P4_58175_37330938	NC_021163.1	Ca_kabuli_chr04	37330938	CC	TT	1946821930
SNP_P4_58176_37331708	NC_021163.1	Ca_kabuli_chr04	37331708	TT	CC	1946821932
SNP_P4_58177_37331850	NC_021163.1	Ca_kabuli_chr04	37331850	TT	CC	1946821935
SNP_P4_58179_37331905	NC_021163.1	Ca_kabuli_chr04	37331905	AA	GG	1946821937
SNP_P4_58180_37332055	NC_021163.1	Ca_kabuli_chr04	37332055	CC	TT	1946821939
SNP_P4_58181_37332207	NC_021163.1	Ca_kabuli_chr04	37332207	AA	GG	1946821941
SNP_P4_58182_37332240	NC_021163.1	Ca_kabuli_chr04	37332240	AA	TT	1946821943
SNP_P4_58183_37332246	NC_021163.1	Ca_kabuli_chr04	37332246	TT	CC	1946821945
SNP_P4_58184_37332279	NC_021163.1	Ca_kabuli_chr04	37332279	TT	CC	1946821947
SNP_P4_58186_37332373	NC_021163.1	Ca_kabuli_chr04	37332373	TT	GG	1946821949
SNP_P4_58187_37332378	NC_021163.1	Ca_kabuli_chr04	37332378	CC	GG	1946821951

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_58189_37332443	NC_021163.1	Ca_kabuli_chr04	37332443	AA	GG	1946821955
SNP_P4_58190_37332448	NC_021163.1	Ca_kabuli_chr04	37332448	CC	AA	1946821957
SNP_P4_58191_37332456	NC_021163.1	Ca_kabuli_chr04	37332456	GG	TT	1946821959
SNP_P4_58192_37332495	NC_021163.1	Ca_kabuli_chr04	37332495	TT	AA	1946821961
SNP_P4_58194_37332779	NC_021163.1	Ca_kabuli_chr04	37332779	TT	AA	1946821963
SNP_P4_58195_37333376	NC_021163.1	Ca_kabuli_chr04	37333376	CC	TT	1946821965
SNP_P4_58196_37333401	NC_021163.1	Ca_kabuli_chr04	37333401	GG	AA	1946821967
SNP_P4_58197_37333670	NC_021163.1	Ca_kabuli_chr04	37333670	TT	CC	1946821969
SNP_P4_58198_37333744	NC_021163.1	Ca_kabuli_chr04	37333744	GG	AA	1946821971
SNP_P4_58199_37340195	NC_021163.1	Ca_kabuli_chr04	37340195	AA	CC	1946821973
SNP_P4_58200_37341713	NC_021163.1	Ca_kabuli_chr04	37341713	AA	CC	1946821975
SNP_P4_58201_37341786	NC_021163.1	Ca_kabuli_chr04	37341786	CC	TT	1946821978
SNP_P4_58202_37342085	NC_021163.1	Ca_kabuli_chr04	37342085	CC	AA	1946821980
SNP_P4_58203_37342088	NC_021163.1	Ca_kabuli_chr04	37342088	GG	AA	1946821982
SNP_P4_58204_37342105	NC_021163.1	Ca_kabuli_chr04	37342105	CC	TT	1946821984
SNP_P4_58205_37342111	NC_021163.1	Ca_kabuli_chr04	37342111	TT	GG	1946821986
SNP_P4_58206_37342502	NC_021163.1	Ca_kabuli_chr04	37342502	TT	CC	1946821988
SNP_P4_58207_37342718	NC_021163.1	Ca_kabuli_chr04	37342718	TT	CC	1946821990
SNP_P4_58208_37342872	NC_021163.1	Ca_kabuli_chr04	37342872	TT	AA	1946821992
SNP_P4_58209_37343193	NC_021163.1	Ca_kabuli_chr04	37343193	GG	AA	1946821994
SNP_P4_58210_37343199	NC_021163.1	Ca_kabuli_chr04	37343199	GG	TT	1946821996
SNP_P4_58211_37343210	NC_021163.1	Ca_kabuli_chr04	37343210	TT	CC	1946821998
SNP_P4_58212_37343214	NC_021163.1	Ca_kabuli_chr04	37343214	TT	CC	1946822000
SNP_P4_58213_37343220	NC_021163.1	Ca_kabuli_chr04	37343220	AA	GG	1946822002
SNP_P4_58214_37343240	NC_021163.1	Ca_kabuli_chr04	37343240	CC	TT	1946822004
SNP_P4_58215_37343299	NC_021163.1	Ca_kabuli_chr04	37343299	CC	TT	1946822006
SNP_P4_58216_37343311	NC_021163.1	Ca_kabuli_chr04	37343311	GG	TT	1946822008
SNP_P4_58217_37343340	NC_021163.1	Ca_kabuli_chr04	37343340	TT	CC	1946822010
SNP_P4_58218_37343452	NC_021163.1	Ca_kabuli_chr04	37343452	GG	AA	1946822012
SNP_P4_58219_37343514	NC_021163.1	Ca_kabuli_chr04	37343514	TT	CC	1946822014
SNP_P4_58220_37343577	NC_021163.1	Ca_kabuli_chr04	37343577	CC	TT	1946822016
SNP_P4_58221_37344255	NC_021163.1	Ca_kabuli_chr04	37344255	TT	CC	1946822018
SNP_P4_58224_37345011	NC_021163.1	Ca_kabuli_chr04	37345011	AA	CC	1946822020
SNP_P4_58225_37345023	NC_021163.1	Ca_kabuli_chr04	37345023	AA	CC	1946822022
SNP_P4_58226_37345277	NC_021163.1	Ca_kabuli_chr04	37345277	CC	AA	1946822025
SNP_P4_58227_37345287	NC_021163.1	Ca_kabuli_chr04	37345287	AA	GG	1946822027
SNP_P4_58228_37345291	NC_021163.1	Ca_kabuli_chr04	37345291	CC	TT	1946822029
SNP_P4_58229_37345885	NC_021163.1	Ca_kabuli_chr04	37345885	TT	GG	1946822031
SNP_P4_58230_37345915	NC_021163.1	Ca_kabuli_chr04	37345915	CC	TT	1946822033
SNP_P4_58232_37346631	NC_021163.1	Ca_kabuli_chr04	37346631	AA	GG	1946822035
SNP_P4_58233_37346795	NC_021163.1	Ca_kabuli_chr04	37346795	CC	TT	1946822037

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_58235_37347787	NC_021163.1	Ca_kabuli_chr04	37347787	CC	AA	1946822041
SNP_P4_58236_37347792	NC_021163.1	Ca_kabuli_chr04	37347792	CC	AA	1946822043
SNP_P4_58237_37348012	NC_021163.1	Ca_kabuli_chr04	37348012	CC	GG	1946822045
SNP_P4_58238_37348105	NC_021163.1	Ca_kabuli_chr04	37348105	TT	CC	1946822047
SNP_P4_58239_37348869	NC_021163.1	Ca_kabuli_chr04	37348869	CC	GG	1946822049
SNP_P4_58240_37349055	NC_021163.1	Ca_kabuli_chr04	37349055	TT	GG	1946822051
SNP_P4_58241_37349212	NC_021163.1	Ca_kabuli_chr04	37349212	CC	AA	1946822053
SNP_P4_58242_37350052	NC_021163.1	Ca_kabuli_chr04	37350052	TT	CC	1946822055
SNP_P4_58243_37350204	NC_021163.1	Ca_kabuli_chr04	37350204	GG	AA	1946822057
SNP_P4_58244_37350212	NC_021163.1	Ca_kabuli_chr04	37350212	CC	TT	1946822059
SNP_P4_58245_37350476	NC_021163.1	Ca_kabuli_chr04	37350476	CC	TT	1946822061
SNP_P4_58246_37350507	NC_021163.1	Ca_kabuli_chr04	37350507	TT	CC	1946822063
SNP_P4_58247_37350534	NC_021163.1	Ca_kabuli_chr04	37350534	GG	AA	1946822065
SNP_P4_58248_37350786	NC_021163.1	Ca_kabuli_chr04	37350786	GG	TT	1946822067
SNP_P4_58249_37352985	NC_021163.1	Ca_kabuli_chr04	37352985	TT	CC	1946822069
SNP_P4_58250_37354860	NC_021163.1	Ca_kabuli_chr04	37354860	AA	GG	1946822072
SNP_P4_58251_37355160	NC_021163.1	Ca_kabuli_chr04	37355160	GG	AA	1946822074
SNP_P4_58252_37355296	NC_021163.1	Ca_kabuli_chr04	37355296	AA	GG	1946822076
SNP_P4_58253_37358073	NC_021163.1	Ca_kabuli_chr04	37358073	AA	CC	1946822078
SNP_P4_58254_37361644	NC_021163.1	Ca_kabuli_chr04	37361644	GG	TT	1946822080
SNP_P4_58256_37361809	NC_021163.1	Ca_kabuli_chr04	37361809	AA	TT	1946822082
SNP_P4_58257_37361954	NC_021163.1	Ca_kabuli_chr04	37361954	AA	GG	1946822084
SNP_P4_58258_37362040	NC_021163.1	Ca_kabuli_chr04	37362040	TT	AA	1946822086
SNP_P4_58259_37362049	NC_021163.1	Ca_kabuli_chr04	37362049	GG	CC	1946822088
SNP_P4_58261_37362257	NC_021163.1	Ca_kabuli_chr04	37362257	CC	TT	1946822090
SNP_P4_58262_37362381	NC_021163.1	Ca_kabuli_chr04	37362381	GG	AA	1946822092
SNP_P4_58263_37363917	NC_021163.1	Ca_kabuli_chr04	37363917	GG	CC	1946822094
SNP_P4_58264_37364166	NC_021163.1	Ca_kabuli_chr04	37364166	GG	TT	1946822096
SNP_P4_58265_37364357	NC_021163.1	Ca_kabuli_chr04	37364357	CC	TT	1946822098
SNP_P4_58266_37364815	NC_021163.1	Ca_kabuli_chr04	37364815	CC	TT	1946822100
SNP_P4_58267_37365299	NC_021163.1	Ca_kabuli_chr04	37365299	TT	GG	1946822102
SNP_P4_58268_37366279	NC_021163.1	Ca_kabuli_chr04	37366279	AA	CC	1946822104
SNP_P4_58269_37366687	NC_021163.1	Ca_kabuli_chr04	37366687	CC	GG	1946822106
SNP_P4_58270_37366690	NC_021163.1	Ca_kabuli_chr04	37366690	AA	TT	1946822108
SNP_P4_58272_37366744	NC_021163.1	Ca_kabuli_chr04	37366744	TT	CC	1946822110
SNP_P4_58273_37366758	NC_021163.1	Ca_kabuli_chr04	37366758	GG	AA	1946822112
SNP_P4_58276_37367680	NC_021163.1	Ca_kabuli_chr04	37367680	AA	GG	1946822114
SNP_P4_58277_37370892	NC_021163.1	Ca_kabuli_chr04	37370892	TT	CC	1946822116
SNP_P4_58279_37371079	NC_021163.1	Ca_kabuli_chr04	37371079	GG	CC	1946822118
SNP_P4_58280_37373394	NC_021163.1	Ca_kabuli_chr04	37373394	GG	TT	1946822120
SNP_P4_58281_37373606	NC_021163.1	Ca_kabuli_chr04	37373606	TT	GG	1946822122

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_58283_37374860	NC_021163.1	Ca_kabuli_chr04	37374860	GG	AA	1946822126
SNP_P4_58284_37374861	NC_021163.1	Ca_kabuli_chr04	37374861	GG	AA	1946822128
SNP_P4_58285_37374867	NC_021163.1	Ca_kabuli_chr04	37374867	TT	CC	1946822130
SNP_P4_58286_37374871	NC_021163.1	Ca_kabuli_chr04	37374871	AA	GG	1946822132
SNP_P4_58287_37375955	NC_021163.1	Ca_kabuli_chr04	37375955	CC	TT	1946822134
SNP_P4_58288_37377408	NC_021163.1	Ca_kabuli_chr04	37377408	CC	GG	1946822136
SNP_P4_58289_37381238	NC_021163.1	Ca_kabuli_chr04	37381238	GG	AA	1946822138
SNP_P4_58290_37385952	NC_021163.1	Ca_kabuli_chr04	37385952	AA	TT	1946822140
SNP_P4_58291_37385980	NC_021163.1	Ca_kabuli_chr04	37385980	CC	AA	1946822142
SNP_P4_58293_37388950	NC_021163.1	Ca_kabuli_chr04	37388950	GG	TT	1946822144
SNP_P4_58294_37389971	NC_021163.1	Ca_kabuli_chr04	37389971	TT	CC	1946822146
SNP_P4_58295_37390009	NC_021163.1	Ca_kabuli_chr04	37390009	AA	CC	1946822147
SNP_P4_58296_37390017	NC_021163.1	Ca_kabuli_chr04	37390017	CC	TT	1946822149
SNP_P4_58297_37390048	NC_021163.1	Ca_kabuli_chr04	37390048	GG	AA	1946822151
SNP_P4_58298_37390075	NC_021163.1	Ca_kabuli_chr04	37390075	AA	CC	1946822153
SNP_P4_58299_37390086	NC_021163.1	Ca_kabuli_chr04	37390086	TT	CC	1946822155
SNP_P4_58301_37390255	NC_021163.1	Ca_kabuli_chr04	37390255	GG	AA	1946822157
SNP_P4_58302_37390270	NC_021163.1	Ca_kabuli_chr04	37390270	GG	AA	1946822159
SNP_P4_58303_37390281	NC_021163.1	Ca_kabuli_chr04	37390281	TT	AA	1946822161
SNP_P4_58304_37390315	NC_021163.1	Ca_kabuli_chr04	37390315	TT	CC	1946822163
SNP_P4_58305_37390556	NC_021163.1	Ca_kabuli_chr04	37390556	CC	TT	1946822165
SNP_P4_58306_37390614	NC_021163.1	Ca_kabuli_chr04	37390614	CC	GG	1946822167
SNP_P4_58307_37390652	NC_021163.1	Ca_kabuli_chr04	37390652	AA	GG	1946822170
SNP_P4_58308_37390684	NC_021163.1	Ca_kabuli_chr04	37390684	CC	TT	1946822172
SNP_P4_58309_37390787	NC_021163.1	Ca_kabuli_chr04	37390787	AA	GG	1946822174
SNP_P4_58310_37392045	NC_021163.1	Ca_kabuli_chr04	37392045	CC	TT	1946822176
SNP_P4_58311_37393210	NC_021163.1	Ca_kabuli_chr04	37393210	AA	TT	1946822178
SNP_P4_58312_37396680	NC_021163.1	Ca_kabuli_chr04	37396680	TT	GG	1946822180
SNP_P4_58313_37396681	NC_021163.1	Ca_kabuli_chr04	37396681	GG	AA	1946822182
SNP_P4_58314_37396685	NC_021163.1	Ca_kabuli_chr04	37396685	CC	TT	1946822184
SNP_P4_58315_37396692	NC_021163.1	Ca_kabuli_chr04	37396692	AA	GG	1946822186
SNP_P4_58316_37396714	NC_021163.1	Ca_kabuli_chr04	37396714	GG	AA	1946822188
SNP_P4_58317_37396715	NC_021163.1	Ca_kabuli_chr04	37396715	TT	AA	1946822190
SNP_P4_58319_37397053	NC_021163.1	Ca_kabuli_chr04	37397053	CC	AA	1946822192
SNP_P4_58321_37397154	NC_021163.1	Ca_kabuli_chr04	37397154	AA	GG	1946822194
SNP_P4_58322_37397221	NC_021163.1	Ca_kabuli_chr04	37397221	CC	TT	1946822196
SNP_P4_58323_37403171	NC_021163.1	Ca_kabuli_chr04	37403171	CC	GG	1946822198
SNP_P4_58324_37403182	NC_021163.1	Ca_kabuli_chr04	37403182	GG	CC	1946822200
SNP_P4_58325_37403206	NC_021163.1	Ca_kabuli_chr04	37403206	CC	TT	1946822202
SNP_P4_58326_37403210	NC_021163.1	Ca_kabuli_chr04	37403210	GG	CC	1946822204
SNP_P4_58327_37403227	NC_021163.1	Ca_kabuli_chr04	37403227	TT	AA	1946822206

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_58329_37403584	NC_021163.1	Ca_kabuli_chr04	37403584	GG	AA	1946822210
SNP_P4_58330_37403605	NC_021163.1	Ca_kabuli_chr04	37403605	AA	TT	1946822212
SNP_P4_58332_37403743	NC_021163.1	Ca_kabuli_chr04	37403743	AA	CC	1946822214
SNP_P4_58333_37403745	NC_021163.1	Ca_kabuli_chr04	37403745	GG	AA	1946822216
SNP_P4_58334_37403767	NC_021163.1	Ca_kabuli_chr04	37403767	CC	TT	1946822218
SNP_P4_58336_37404260	NC_021163.1	Ca_kabuli_chr04	37404260	GG	AA	1946822220
SNP_P4_58337_37404297	NC_021163.1	Ca_kabuli_chr04	37404297	GG	AA	1946822222
SNP_P4_58338_37404318	NC_021163.1	Ca_kabuli_chr04	37404318	AA	GG	1946822224
SNP_P4_58339_37404351	NC_021163.1	Ca_kabuli_chr04	37404351	CC	TT	1946822226
SNP_P4_58340_37404982	NC_021163.1	Ca_kabuli_chr04	37404982	AA	CC	1946822228
SNP_P4_58341_37404997	NC_021163.1	Ca_kabuli_chr04	37404997	TT	GG	1946822230
SNP_P4_58342_37405231	NC_021163.1	Ca_kabuli_chr04	37405231	AA	TT	1946822232
SNP_P4_58343_37405252	NC_021163.1	Ca_kabuli_chr04	37405252	CC	TT	1946822234
SNP_P4_58344_37405293	NC_021163.1	Ca_kabuli_chr04	37405293	CC	TT	1946822236
SNP_P4_58345_37405313	NC_021163.1	Ca_kabuli_chr04	37405313	TT	GG	1946822238
SNP_P4_58346_37405552	NC_021163.1	Ca_kabuli_chr04	37405552	TT	AA	1946822240
SNP_P4_58348_37407822	NC_021163.1	Ca_kabuli_chr04	37407822	AA	GG	1946822243
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SNP_P4_58350_37407918	NC_021163.1	Ca_kabuli_chr04	37407918	GG	AA	1946822247
SNP_P4_58351_37408035	NC_021163.1	Ca_kabuli_chr04	37408035	TT	AA	1946822249
SNP_P4_58353_37409969	NC_021163.1	Ca_kabuli_chr04	37409969	CC	TT	1946822251
SNP_P4_58354_37410764	NC_021163.1	Ca_kabuli_chr04	37410764	TT	AA	1946822253
SNP_P4_58355_37410817	NC_021163.1	Ca_kabuli_chr04	37410817	TT	CC	1946822255
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SNP_P4_58359_37417511	NC_021163.1	Ca_kabuli_chr04	37417511	AA	CC	1946822263
SNP_P4_58360_37420609	NC_021163.1	Ca_kabuli_chr04	37420609	TT	CC	1946822265
SNP_P4_58361_37420804	NC_021163.1	Ca_kabuli_chr04	37420804	GG	TT	1946822267
SNP_P4_58362_37421924	NC_021163.1	Ca_kabuli_chr04	37421924	TT	CC	1946822269
SNP_P4_58363_37422441	NC_021163.1	Ca_kabuli_chr04	37422441	CC	TT	1946822271
SNP_P4_58364_37422479	NC_021163.1	Ca_kabuli_chr04	37422479	AA	TT	1946822273
SNP_P4_58365_37422796	NC_021163.1	Ca_kabuli_chr04	37422796	TT	CC	1946822275
SNP_P4_58366_37434751	NC_021163.1	Ca_kabuli_chr04	37434751	TT	CC	1946822277
SNP_P4_58367_37434789	NC_021163.1	Ca_kabuli_chr04	37434789	AA	TT	1946822279
SNP_P4_58368_37434829	NC_021163.1	Ca_kabuli_chr04	37434829	CC	TT	1946822282
SNP_P4_58369_37435114	NC_021163.1	Ca_kabuli_chr04	37435114	TT	AA	1946822284
SNP_P4_58370_37435133	NC_021163.1	Ca_kabuli_chr04	37435133	TT	CC	1946822286
SNP_P4_58371_37435170	NC_021163.1	Ca_kabuli_chr04	37435170	TT	CC	1946822288
SNP_P4_58372_37435634	NC_021163.1	Ca_kabuli_chr04	37435634	AA	GG	1946822290
SNP_P4_58373_37436576	NC_021163.1	Ca_kabuli_chr04	37436576	CC	TT	1946822292

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_58375_37438626	NC_021163.1	Ca_kabuli_chr04	37438626	CC	TT	1946822296
SNP_P4_58376_37439441	NC_021163.1	Ca_kabuli_chr04	37439441	GG	CC	1946822298
SNP_P4_58377_37439657	NC_021163.1	Ca_kabuli_chr04	37439657	TT	CC	1946822301
SNP_P4_58378_37439797	NC_021163.1	Ca_kabuli_chr04	37439797	CC	TT	1946822303
SNP_P4_58379_37440015	NC_021163.1	Ca_kabuli_chr04	37440015	AA	GG	1946822305
SNP_P4_58380_37440031	NC_021163.1	Ca_kabuli_chr04	37440031	CC	TT	1946822307
SNP_P4_58381_37440032	NC_021163.1	Ca_kabuli_chr04	37440032	TT	GG	1946822309
SNP_P4_58382_37440625	NC_021163.1	Ca_kabuli_chr04	37440625	TT	CC	1946822311
SNP_P4_58383_37441542	NC_021163.1	Ca_kabuli_chr04	37441542	AA	GG	1946822313
SNP_P4_58384_37441921	NC_021163.1	Ca_kabuli_chr04	37441921	AA	GG	1946822315
SNP_P4_58385_37442072	NC_021163.1	Ca_kabuli_chr04	37442072	TT	CC	1946822317
SNP_P4_58386_37442076	NC_021163.1	Ca_kabuli_chr04	37442076	AA	GG	1946822319
SNP_P4_58387_37442092	NC_021163.1	Ca_kabuli_chr04	37442092	GG	AA	1946822321
SNP_P4_58388_37442115	NC_021163.1	Ca_kabuli_chr04	37442115	TT	CC	1946822323
SNP_P4_58389_37442816	NC_021163.1	Ca_kabuli_chr04	37442816	AA	GG	1946822325
SNP_P4_58390_37443204	NC_021163.1	Ca_kabuli_chr04	37443204	TT	CC	1946822327
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SNP_P4_58397_37448260	NC_021163.1	Ca_kabuli_chr04	37448260	GG	AA	1946822339
SNP_P4_58398_37448279	NC_021163.1	Ca_kabuli_chr04	37448279	GG	AA	1946822341
SNP_P4_58399_37448767	NC_021163.1	Ca_kabuli_chr04	37448767	CC	GG	1946822343
SNP_P4_58400_37448823	NC_021163.1	Ca_kabuli_chr04	37448823	AA	GG	1946822345
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SNP_P4_58402_37450873	NC_021163.1	Ca_kabuli_chr04	37450873	TT	CC	1946822349
SNP_P4_58403_37452598	NC_021163.1	Ca_kabuli_chr04	37452598	AA	GG	1946822351
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SNP_P4_58406_37452618	NC_021163.1	Ca_kabuli_chr04	37452618	GG	CC	1946822357
SNP_P4_58407_37453209	NC_021163.1	Ca_kabuli_chr04	37453209	GG	AA	1946822359
SNP_P4_58408_37460337	NC_021163.1	Ca_kabuli_chr04	37460337	AA	TT	1946822362
SNP_P4_58409_37460516	NC_021163.1	Ca_kabuli_chr04	37460516	TT	GG	1946822364
SNP_P4_58410_37468494	NC_021163.1	Ca_kabuli_chr04	37468494	AA	GG	1946822366
SNP_P4_58411_37468937	NC_021163.1	Ca_kabuli_chr04	37468937	CC	TT	1946822368
SNP_P4_58412_37469490	NC_021163.1	Ca_kabuli_chr04	37469490	AA	GG	1946822370
SNP_P4_58413_37469551	NC_021163.1	Ca_kabuli_chr04	37469551	GG	AA	1946822372
SNP_P4_58414_37469857	NC_021163.1	Ca_kabuli_chr04	37469857	TT	CC	1946822374
SNP_P4_58415_37469868	NC_021163.1	Ca_kabuli_chr04	37469868	GG	AA	1946822376
SNP_P4_58416_37469967	NC_021163.1	Ca_kabuli_chr04	37469967	GG	AA	1946822378

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_58419_37475495	NC_021163.1	Ca_kabuli_chr04	37475495	TT	CC	1946822382
SNP_P4_58420_37476668	NC_021163.1	Ca_kabuli_chr04	37476668	AA	GG	1946822383
SNP_P4_58421_37476819	NC_021163.1	Ca_kabuli_chr04	37476819	TT	CC	1946822384
SNP_P4_58422_37479850	NC_021163.1	Ca_kabuli_chr04	37479850	CC	TT	1946822385
SNP_P4_58424_37480779	NC_021163.1	Ca_kabuli_chr04	37480779	TT	GG	1946822386
SNP_P4_58425_37482528	NC_021163.1	Ca_kabuli_chr04	37482528	AA	TT	1946822388
SNP_P4_58427_37483232	NC_021163.1	Ca_kabuli_chr04	37483232	TT	CC	1946822390
SNP_P4_58428_37483698	NC_021163.1	Ca_kabuli_chr04	37483698	AA	CC	1946822392
SNP_P4_58429_37483897	NC_021163.1	Ca_kabuli_chr04	37483897	CC	AA	1946822394
SNP_P4_58430_37484375	NC_021163.1	Ca_kabuli_chr04	37484375	GG	AA	1946822396
SNP_P4_58431_37484376	NC_021163.1	Ca_kabuli_chr04	37484376	TT	AA	1946822398
SNP_P4_58432_37484385	NC_021163.1	Ca_kabuli_chr04	37484385	CC	TT	1946822400
SNP_P4_58433_37484407	NC_021163.1	Ca_kabuli_chr04	37484407	CC	TT	1946822402
SNP_P4_58434_37484680	NC_021163.1	Ca_kabuli_chr04	37484680	GG	AA	1946822404
SNP_P4_58435_37484693	NC_021163.1	Ca_kabuli_chr04	37484693	AA	TT	1946822406
SNP_P4_58436_37485209	NC_021163.1	Ca_kabuli_chr04	37485209	GG	AA	1946822408
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SNP_P4_58439_37490886	NC_021163.1	Ca_kabuli_chr04	37490886	GG	AA	1946822414
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SNP_P4_58458_37492787	NC_021163.1	Ca_kabuli_chr04	37492787	AA	CC	1946822453
SNP_P4_58459_37493579	NC_021163.1	Ca_kabuli_chr04	37493579	AA	GG	1946822455
SNP_P4_58460_37494192	NC_021163.1	Ca_kabuli_chr04	37494192	GG	TT	1946822457

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_58463_37495183	NC_021163.1	Ca_kabuli_chr04	37495183	GG	AA	1946822463
SNP_P4_58464_37495203	NC_021163.1	Ca_kabuli_chr04	37495203	CC	AA	1946822465
SNP_P4_58465_37496172	NC_021163.1	Ca_kabuli_chr04	37496172	GG	AA	1946822467
SNP_P4_58466_37498083	NC_021163.1	Ca_kabuli_chr04	37498083	TT	CC	1946822469
SNP_P4_58467_37498298	NC_021163.1	Ca_kabuli_chr04	37498298	TT	CC	1946822471
SNP_P4_58468_37498358	NC_021163.1	Ca_kabuli_chr04	37498358	GG	TT	1946822473
SNP_P4_58469_37498363	NC_021163.1	Ca_kabuli_chr04	37498363	AA	GG	1946822475
SNP_P4_58470_37498843	NC_021163.1	Ca_kabuli_chr04	37498843	TT	AA	1946822477
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SNP_P4_58476_37502882	NC_021163.1	Ca_kabuli_chr04	37502882	GG	AA	1946822489
SNP_P4_58477_37503208	NC_021163.1	Ca_kabuli_chr04	37503208	AA	GG	1946822491
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SNP_P4_58481_37504709	NC_021163.1	Ca_kabuli_chr04	37504709	TT	CC	1946822499
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SNP_P4_58483_37504929	NC_021163.1	Ca_kabuli_chr04	37504929	AA	GG	1946822503
SNP_P4_58484_37505336	NC_021163.1	Ca_kabuli_chr04	37505336	CC	TT	1946822505
SNP_P4_58485_37505585	NC_021163.1	Ca_kabuli_chr04	37505585	TT	GG	1946822507
SNP_P4_58486_37505590	NC_021163.1	Ca_kabuli_chr04	37505590	AA	GG	1946822509
SNP_P4_58487_37505607	NC_021163.1	Ca_kabuli_chr04	37505607	GG	TT	1946822511
SNP_P4_58488_37505924	NC_021163.1	Ca_kabuli_chr04	37505924	CC	TT	1946822513
SNP_P4_58489_37505935	NC_021163.1	Ca_kabuli_chr04	37505935	AA	GG	1946822515
SNP_P4_58490_37506409	NC_021163.1	Ca_kabuli_chr04	37506409	TT	CC	1946822517
SNP_P4_58491_37506423	NC_021163.1	Ca_kabuli_chr04	37506423	TT	CC	1946822519
SNP_P4_58492_37507157	NC_021163.1	Ca_kabuli_chr04	37507157	GG	TT	1946822521
SNP_P4_58493_37507180	NC_021163.1	Ca_kabuli_chr04	37507180	TT	AA	1946822523
SNP_P4_58494_37507181	NC_021163.1	Ca_kabuli_chr04	37507181	AA	TT	1946822525
SNP_P4_58495_37507206	NC_021163.1	Ca_kabuli_chr04	37507206	CC	GG	1946822527
SNP_P4_58496_37507602	NC_021163.1	Ca_kabuli_chr04	37507602	TT	AA	1946822529
SNP_P4_58497_37507935	NC_021163.1	Ca_kabuli_chr04	37507935	GG	AA	1946822531
SNP_P4_58498_37508173	NC_021163.1	Ca_kabuli_chr04	37508173	TT	GG	1946822533
SNP_P4_58499_37508189	NC_021163.1	Ca_kabuli_chr04	37508189	AA	TT	1946822535
SNP_P4_58501_37508742	NC_021163.1	Ca_kabuli_chr04	37508742	AA	TT	1946822537
SNP_P4_58502_37508743	NC_021163.1	Ca_kabuli_chr04	37508743	AA	TT	1946822539
SNP_P4_58503_37508839	NC_021163.1	Ca_kabuli_chr04	37508839	CC	TT	1946822540

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_58505_37509110	NC_021163.1	Ca_kabuli_chr04	37509110	AA	CC	1946822544
SNP_P4_58506_37509686	NC_021163.1	Ca_kabuli_chr04	37509686	AA	GG	1946822546
SNP_P4_58507_37511900	NC_021163.1	Ca_kabuli_chr04	37511900	AA	TT	1946822548
SNP_P4_58508_37512086	NC_021163.1	Ca_kabuli_chr04	37512086	TT	CC	1946822550
SNP_P4_58509_37512364	NC_021163.1	Ca_kabuli_chr04	37512364	GG	AA	1946822552
SNP_P4_58510_37512505	NC_021163.1	Ca_kabuli_chr04	37512505	AA	TT	1946822554
SNP_P4_58511_37513337	NC_021163.1	Ca_kabuli_chr04	37513337	CC	TT	1946822556
SNP_P4_58512_37516466	NC_021163.1	Ca_kabuli_chr04	37516466	CC	TT	1946822558
SNP_P4_58513_37516468	NC_021163.1	Ca_kabuli_chr04	37516468	AA	GG	1946822560
SNP_P4_58514_37519455	NC_021163.1	Ca_kabuli_chr04	37519455	TT	CC	1946822562
SNP_P4_58515_37519467	NC_021163.1	Ca_kabuli_chr04	37519467	TT	CC	1946822564
SNP_P4_58516_37519893	NC_021163.1	Ca_kabuli_chr04	37519893	AA	GG	1946822566
SNP_P4_58517_37533182	NC_021163.1	Ca_kabuli_chr04	37533182	TT	CC	1946822568
SNP_P4_58518_37533402	NC_021163.1	Ca_kabuli_chr04	37533402	AA	GG	1946822570
SNP_P4_58520_37540599	NC_021163.1	Ca_kabuli_chr04	37540599	GG	CC	1946822572
SNP_P4_58521_37540894	NC_021163.1	Ca_kabuli_chr04	37540894	AA	CC	1946822574
SNP_P4_58522_37541095	NC_021163.1	Ca_kabuli_chr04	37541095	CC	TT	1946822576
SNP_P4_58523_37541311	NC_021163.1	Ca_kabuli_chr04	37541311	CC	TT	1946822578
SNP_P4_58524_37541733	NC_021163.1	Ca_kabuli_chr04	37541733	TT	CC	1946822580
SNP_P4_58525_37543392	NC_021163.1	Ca_kabuli_chr04	37543392	GG	CC	1946822582
SNP_P4_58527_37544511	NC_021163.1	Ca_kabuli_chr04	37544511	TT	GG	1946822584
SNP_P4_58528_37545754	NC_021163.1	Ca_kabuli_chr04	37545754	AA	CC	1946822586
SNP_P4_58529_37545780	NC_021163.1	Ca_kabuli_chr04	37545780	TT	CC	1946822588
SNP_P4_58530_37547383	NC_021163.1	Ca_kabuli_chr04	37547383	TT	AA	1946822590
SNP_P4_58531_37547552	NC_021163.1	Ca_kabuli_chr04	37547552	GG	AA	1946822592
SNP_P4_58532_37547651	NC_021163.1	Ca_kabuli_chr04	37547651	AA	CC	1946822594
SNP_P4_58533_37548350	NC_021163.1	Ca_kabuli_chr04	37548350	CC	TT	1946822596
SNP_P4_58534_37549410	NC_021163.1	Ca_kabuli_chr04	37549410	TT	CC	1946822598
SNP_P4_58535_37551663	NC_021163.1	Ca_kabuli_chr04	37551663	TT	AA	1946822600
SNP_P4_58536_37552201	NC_021163.1	Ca_kabuli_chr04	37552201	GG	AA	1946822602
SNP_P4_58537_37554827	NC_021163.1	Ca_kabuli_chr04	37554827	CC	GG	1946822604
SNP_P4_58538_37555886	NC_021163.1	Ca_kabuli_chr04	37555886	TT	CC	1946822606
SNP_P4_58539_37558418	NC_021163.1	Ca_kabuli_chr04	37558418	CC	TT	1946822608
SNP_P4_58540_37562395	NC_021163.1	Ca_kabuli_chr04	37562395	GG	AA	1946822610
SNP_P4_58541_37564104	NC_021163.1	Ca_kabuli_chr04	37564104	AA	TT	1946822611
SNP_P4_58542_37565167	NC_021163.1	Ca_kabuli_chr04	37565167	GG	AA	1946822612
SNP_P4_58543_37565644	NC_021163.1	Ca_kabuli_chr04	37565644	GG	AA	1946822613
SNP_P4_58544_37565765	NC_021163.1	Ca_kabuli_chr04	37565765	CC	TT	1946822615
SNP_P4_58545_37568948	NC_021163.1	Ca_kabuli_chr04	37568948	CC	TT	1946822617
SNP_P4_58546_37570104	NC_021163.1	Ca_kabuli_chr04	37570104	GG	TT	1946822619
SNP_P4_58547_37576334	NC_021163.1	Ca_kabuli_chr04	37576334	AA	GG	1946822621

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_58549_37576678	NC_021163.1	Ca_kabuli_chr04	37576678	GG	AA	1946822625
SNP_P4_58550_37576730	NC_021163.1	Ca_kabuli_chr04	37576730	CC	TT	1946822627
SNP_P4_58551_37578072	NC_021163.1	Ca_kabuli_chr04	37578072	AA	GG	1946822630
SNP_P4_58552_37578196	NC_021163.1	Ca_kabuli_chr04	37578196	TT	AA	1946822632
SNP_P4_58553_37579859	NC_021163.1	Ca_kabuli_chr04	37579859	TT	AA	1946822634
SNP_P4_58554_37582355	NC_021163.1	Ca_kabuli_chr04	37582355	CC	AA	1946822636
SNP_P4_58555_37584852	NC_021163.1	Ca_kabuli_chr04	37584852	CC	TT	1946822638
SNP_P4_58556_37584982	NC_021163.1	Ca_kabuli_chr04	37584982	TT	GG	1946822640
SNP_P4_58557_37585088	NC_021163.1	Ca_kabuli_chr04	37585088	GG	AA	1946822642
SNP_P4_58558_37605362	NC_021163.1	Ca_kabuli_chr04	37605362	GG	TT	1946822644
SNP_P4_58559_37605391	NC_021163.1	Ca_kabuli_chr04	37605391	TT	CC	1946822646
SNP_P4_58560_37605556	NC_021163.1	Ca_kabuli_chr04	37605556	AA	GG	1946822648
SNP_P4_58561_37605565	NC_021163.1	Ca_kabuli_chr04	37605565	TT	AA	1946822650
SNP_P4_58562_37605652	NC_021163.1	Ca_kabuli_chr04	37605652	GG	AA	1946822652
SNP_P4_58563_37605674	NC_021163.1	Ca_kabuli_chr04	37605674	CC	TT	1946822654
SNP_P4_58564_37605726	NC_021163.1	Ca_kabuli_chr04	37605726	TT	CC	1946822656
SNP_P4_58566_37608323	NC_021163.1	Ca_kabuli_chr04	37608323	GG	AA	1946822658
SNP_P4_58567_37608982	NC_021163.1	Ca_kabuli_chr04	37608982	TT	CC	1946822660
SNP_P4_58568_37609051	NC_021163.1	Ca_kabuli_chr04	37609051	GG	CC	1946822662
SNP_P4_58569_37612426	NC_021163.1	Ca_kabuli_chr04	37612426	GG	AA	1946822664
SNP_P4_58570_37612889	NC_021163.1	Ca_kabuli_chr04	37612889	AA	GG	1946822666
SNP_P4_58571_37612903	NC_021163.1	Ca_kabuli_chr04	37612903	AA	GG	1946822668
SNP_P4_58572_37612974	NC_021163.1	Ca_kabuli_chr04	37612974	TT	CC	1946822670
SNP_P4_58573_37612975	NC_021163.1	Ca_kabuli_chr04	37612975	CC	AA	1946822672
SNP_P4_58574_37613088	NC_021163.1	Ca_kabuli_chr04	37613088	AA	GG	1946822675
SNP_P4_58575_37615051	NC_021163.1	Ca_kabuli_chr04	37615051	AA	GG	1946822677
SNP_P4_58576_37615133	NC_021163.1	Ca_kabuli_chr04	37615133	GG	CC	1946822679
SNP_P4_58578_37617523	NC_021163.1	Ca_kabuli_chr04	37617523	CC	AA	1946822681
SNP_P4_58579_37618015	NC_021163.1	Ca_kabuli_chr04	37618015	CC	GG	1946822683
SNP_P4_58580_37618022	NC_021163.1	Ca_kabuli_chr04	37618022	GG	AA	1946822685
SNP_P4_58581_37618311	NC_021163.1	Ca_kabuli_chr04	37618311	TT	AA	1946822687
SNP_P4_58583_37619597	NC_021163.1	Ca_kabuli_chr04	37619597	CC	AA	1946822689
SNP_P4_58584_37620063	NC_021163.1	Ca_kabuli_chr04	37620063	AA	CC	1946822691
SNP_P4_58585_37621698	NC_021163.1	Ca_kabuli_chr04	37621698	TT	CC	1946822693
SNP_P4_58586_37622100	NC_021163.1	Ca_kabuli_chr04	37622100	AA	CC	1946822695
SNP_P4_58587_37630840	NC_021163.1	Ca_kabuli_chr04	37630840	AA	TT	1946822697
SNP_P4_58588_37632260	NC_021163.1	Ca_kabuli_chr04	37632260	AA	GG	1946822699
SNP_P4_58589_37634286	NC_021163.1	Ca_kabuli_chr04	37634286	TT	CC	1946822701
SNP_P4_58590_37634347	NC_021163.1	Ca_kabuli_chr04	37634347	TT	CC	1946822703
SNP_P4_58591_37635534	NC_021163.1	Ca_kabuli_chr04	37635534	CC	AA	1946822705
SNP_P4_58592_37636163	NC_021163.1	Ca_kabuli_chr04	37636163	CC	TT	1946822707

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_58594_37637650	NC_021163.1	Ca_kabuli_chr04	37637650	GG	CC	1946822711
SNP_P4_58595_37637696	NC_021163.1	Ca_kabuli_chr04	37637696	CC	TT	1946822713
SNP_P4_58596_37637701	NC_021163.1	Ca_kabuli_chr04	37637701	CC	TT	1946822715
SNP_P4_58597_37637734	NC_021163.1	Ca_kabuli_chr04	37637734	TT	CC	1946822717
SNP_P4_58598_37637737	NC_021163.1	Ca_kabuli_chr04	37637737	TT	AA	1946822719
SNP_P4_58599_37637919	NC_021163.1	Ca_kabuli_chr04	37637919	GG	AA	1946822721
SNP_P4_58600_37637922	NC_021163.1	Ca_kabuli_chr04	37637922	AA	GG	1946822723
SNP_P4_58601_37638723	NC_021163.1	Ca_kabuli_chr04	37638723	GG	AA	1946822725
SNP_P4_58602_37641565	NC_021163.1	Ca_kabuli_chr04	37641565	AA	GG	1946822727
SNP_P4_58603_37643300	NC_021163.1	Ca_kabuli_chr04	37643300	GG	AA	1946822729
SNP_P4_58604_37643957	NC_021163.1	Ca_kabuli_chr04	37643957	GG	TT	1946822731
SNP_P4_58605_37644199	NC_021163.1	Ca_kabuli_chr04	37644199	TT	CC	1946822733
SNP_P4_58606_37645153	NC_021163.1	Ca_kabuli_chr04	37645153	TT	AA	1946822735
SNP_P4_58607_37646394	NC_021163.1	Ca_kabuli_chr04	37646394	GG	AA	1946822737
SNP_P4_58609_37646853	NC_021163.1	Ca_kabuli_chr04	37646853	CC	TT	1946822739
SNP_P4_58610_37647867	NC_021163.1	Ca_kabuli_chr04	37647867	AA	GG	1946822741
SNP_P4_58612_37648145	NC_021163.1	Ca_kabuli_chr04	37648145	CC	TT	1946822743
SNP_P4_58613_37648354	NC_021163.1	Ca_kabuli_chr04	37648354	TT	CC	1946822745
SNP_P4_58614_37652227	NC_021163.1	Ca_kabuli_chr04	37652227	CC	TT	1946822747
SNP_P4_58615_37652616	NC_021163.1	Ca_kabuli_chr04	37652616	TT	CC	1946822749
SNP_P4_58616_37659819	NC_021163.1	Ca_kabuli_chr04	37659819	AA	CC	1946822751
SNP_P4_58617_37659824	NC_021163.1	Ca_kabuli_chr04	37659824	GG	TT	1946822753
SNP_P4_58618_37659922	NC_021163.1	Ca_kabuli_chr04	37659922	AA	TT	1946822755
SNP_P4_58619_37659923	NC_021163.1	Ca_kabuli_chr04	37659923	CC	AA	1946822757
SNP_P4_58620_37659924	NC_021163.1	Ca_kabuli_chr04	37659924	TT	CC	1946822759
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SNP_P4_58622_37660247	NC_021163.1	Ca_kabuli_chr04	37660247	GG	AA	1946822763
SNP_P4_58623_37661616	NC_021163.1	Ca_kabuli_chr04	37661616	TT	CC	1946822765
SNP_P4_58624_37662640	NC_021163.1	Ca_kabuli_chr04	37662640	AA	GG	1946822767
SNP_P4_58625_37662685	NC_021163.1	Ca_kabuli_chr04	37662685	GG	AA	1946822769
SNP_P4_58627_37677228	NC_021163.1	Ca_kabuli_chr04	37677228	TT	GG	1946822771
SNP_P4_58628_37677579	NC_021163.1	Ca_kabuli_chr04	37677579	AA	GG	1946822773
SNP_P4_58629_37678552	NC_021163.1	Ca_kabuli_chr04	37678552	AA	TT	1946822775
SNP_P4_58630_37678580	NC_021163.1	Ca_kabuli_chr04	37678580	GG	AA	1946822777
SNP_P4_58631_37678581	NC_021163.1	Ca_kabuli_chr04	37678581	AA	TT	1946822779
SNP_P4_58632_37678590	NC_021163.1	Ca_kabuli_chr04	37678590	TT	AA	1946822781
SNP_P4_58633_37679156	NC_021163.1	Ca_kabuli_chr04	37679156	CC	AA	1946822783
SNP_P4_58634_37679437	NC_021163.1	Ca_kabuli_chr04	37679437	CC	TT	1946822785
SNP_P4_58635_37679463	NC_021163.1	Ca_kabuli_chr04	37679463	CC	TT	1946822787
SNP_P4_58636_37681116	NC_021163.1	Ca_kabuli_chr04	37681116	GG	AA	1946822789
SNP_P4_58637_37681118	NC_021163.1	Ca_kabuli_chr04	37681118	TT	CC	1946822791

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_58639_37681140	NC_021163.1	Ca_kabuli_chr04	37681140	CC	TT	1946822795
SNP_P4_58640_37681297	NC_021163.1	Ca_kabuli_chr04	37681297	CC	TT	1946822797
SNP_P4_58641_37681347	NC_021163.1	Ca_kabuli_chr04	37681347	CC	TT	1946822799
SNP_P4_58642_37681463	NC_021163.1	Ca_kabuli_chr04	37681463	CC	AA	1946822801
SNP_P4_58643_37681893	NC_021163.1	Ca_kabuli_chr04	37681893	CC	GG	1946822803
SNP_P4_58644_37682095	NC_021163.1	Ca_kabuli_chr04	37682095	AA	TT	1946822805
SNP_P4_58645_37682114	NC_021163.1	Ca_kabuli_chr04	37682114	GG	AA	1946822807
SNP_P4_58646_37682145	NC_021163.1	Ca_kabuli_chr04	37682145	TT	CC	1946822809
SNP_P4_58647_37682146	NC_021163.1	Ca_kabuli_chr04	37682146	TT	AA	1946822811
SNP_P4_58648_37682194	NC_021163.1	Ca_kabuli_chr04	37682194	CC	GG	1946822813
SNP_P4_58649_37682371	NC_021163.1	Ca_kabuli_chr04	37682371	CC	TT	1946822815
SNP_P4_58650_37682376	NC_021163.1	Ca_kabuli_chr04	37682376	TT	CC	1946822817
SNP_P4_58651_37682998	NC_021163.1	Ca_kabuli_chr04	37682998	AA	GG	1946822820
SNP_P4_58652_37683602	NC_021163.1	Ca_kabuli_chr04	37683602	TT	AA	1946822822
SNP_P4_58653_37684740	NC_021163.1	Ca_kabuli_chr04	37684740	TT	GG	1946822824
SNP_P4_58654_37684755	NC_021163.1	Ca_kabuli_chr04	37684755	CC	TT	1946822826
SNP_P4_58655_37688361	NC_021163.1	Ca_kabuli_chr04	37688361	GG	TT	1946822828
SNP_P4_58657_37688651	NC_021163.1	Ca_kabuli_chr04	37688651	AA	GG	1946822830
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SNP_P4_58660_37691096	NC_021163.1	Ca_kabuli_chr04	37691096	TT	CC	1946822836
SNP_P4_58662_37691131	NC_021163.1	Ca_kabuli_chr04	37691131	GG	AA	1946822838
SNP_P4_58663_37693463	NC_021163.1	Ca_kabuli_chr04	37693463	TT	GG	1946822840
SNP_P4_58665_37693502	NC_021163.1	Ca_kabuli_chr04	37693502	GG	AA	1946822842
SNP_P4_58666_37693829	NC_021163.1	Ca_kabuli_chr04	37693829	CC	TT	1946822844
SNP_P4_58667_37694694	NC_021163.1	Ca_kabuli_chr04	37694694	CC	TT	1946822846
SNP_P4_58668_37694701	NC_021163.1	Ca_kabuli_chr04	37694701	CC	TT	1946822848
SNP_P4_58670_37695906	NC_021163.1	Ca_kabuli_chr04	37695906	AA	TT	1946822850
SNP_P4_58671_37695924	NC_021163.1	Ca_kabuli_chr04	37695924	GG	CC	1946822852
SNP_P4_58672_37695925	NC_021163.1	Ca_kabuli_chr04	37695925	CC	TT	1946822855
SNP_P4_58673_37695969	NC_021163.1	Ca_kabuli_chr04	37695969	TT	CC	1946822857
SNP_P4_58674_37695976	NC_021163.1	Ca_kabuli_chr04	37695976	CC	TT	1946822859
SNP_P4_58677_37697682	NC_021163.1	Ca_kabuli_chr04	37697682	GG	AA	1946822861
SNP_P4_58679_37699176	NC_021163.1	Ca_kabuli_chr04	37699176	AA	GG	1946822863
SNP_P4_58680_37699782	NC_021163.1	Ca_kabuli_chr04	37699782	GG	AA	1946822865
SNP_P4_58681_37699894	NC_021163.1	Ca_kabuli_chr04	37699894	CC	TT	1946822867
SNP_P4_58682_37699981	NC_021163.1	Ca_kabuli_chr04	37699981	GG	TT	1946822869
SNP_P4_58683_37700066	NC_021163.1	Ca_kabuli_chr04	37700066	AA	GG	1946822871
SNP_P4_58685_37700345	NC_021163.1	Ca_kabuli_chr04	37700345	AA	GG	1946822873
SNP_P4_58687_37701414	NC_021163.1	Ca_kabuli_chr04	37701414	CC	TT	1946822875
SNP_P4_58688_37702101	NC_021163.1	Ca_kabuli_chr04	37702101	TT	GG	1946822877

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_58689_37702373	NC_021163.1	Ca_kabuli_chr04	37702373	CC	TT	1946822879
SNP_P4_58690_37702424	NC_021163.1	Ca_kabuli_chr04	37702424	AA	CC	1946822881
SNP_P4_58691_37702443	NC_021163.1	Ca_kabuli_chr04	37702443	TT	AA	1946822883
SNP_P4_58692_37702446	NC_021163.1	Ca_kabuli_chr04	37702446	GG	TT	1946822886
SNP_P4_58693_37702456	NC_021163.1	Ca_kabuli_chr04	37702456	TT	GG	1946822888
SNP_P4_58694_37703751	NC_021163.1	Ca_kabuli_chr04	37703751	TT	CC	1946822890
SNP_P4_58695_37703863	NC_021163.1	Ca_kabuli_chr04	37703863	AA	TT	1946822892
SNP_P4_58696_37703941	NC_021163.1	Ca_kabuli_chr04	37703941	AA	GG	1946822894
SNP_P4_58699_37704106	NC_021163.1	Ca_kabuli_chr04	37704106	CC	AA	1946822896
SNP_P4_58700_37704109	NC_021163.1	Ca_kabuli_chr04	37704109	AA	CC	1946822898
SNP_P4_58702_37704272	NC_021163.1	Ca_kabuli_chr04	37704272	TT	GG	1946822900
SNP_P4_58704_37704345	NC_021163.1	Ca_kabuli_chr04	37704345	AA	GG	1946822902
SNP_P4_58705_37704705	NC_021163.1	Ca_kabuli_chr04	37704705	TT	GG	1946822904
SNP_P4_58706_37704755	NC_021163.1	Ca_kabuli_chr04	37704755	AA	CC	1946822906
SNP_P4_58707_37704782	NC_021163.1	Ca_kabuli_chr04	37704782	CC	AA	1946822908
SNP_P4_58708_37705061	NC_021163.1	Ca_kabuli_chr04	37705061	TT	AA	1946822910
SNP_P4_58709_37705224	NC_021163.1	Ca_kabuli_chr04	37705224	GG	TT	1946822912
SNP_P4_58710_37705317	NC_021163.1	Ca_kabuli_chr04	37705317	AA	GG	1946822914
SNP_P4_58711_37705335	NC_021163.1	Ca_kabuli_chr04	37705335	TT	CC	1946822916
SNP_P4_58712_37705349	NC_021163.1	Ca_kabuli_chr04	37705349	CC	TT	1946822919
SNP_P4_58713_37705350	NC_021163.1	Ca_kabuli_chr04	37705350	GG	AA	1946822921
SNP_P4_58715_37706061	NC_021163.1	Ca_kabuli_chr04	37706061	AA	GG	1946822923
SNP_P4_58719_37707088	NC_021163.1	Ca_kabuli_chr04	37707088	CC	TT	1946822925
SNP_P4_58720_37707106	NC_021163.1	Ca_kabuli_chr04	37707106	GG	CC	1946822927
SNP_P4_58722_37707192	NC_021163.1	Ca_kabuli_chr04	37707192	AA	TT	1946822929
SNP_P4_58723_37707198	NC_021163.1	Ca_kabuli_chr04	37707198	TT	GG	1946822931
SNP_P4_58724_37707346	NC_021163.1	Ca_kabuli_chr04	37707346	CC	GG	1946822933
SNP_P4_58726_37708911	NC_021163.1	Ca_kabuli_chr04	37708911	GG	CC	1946822935
SNP_P4_58727_37708964	NC_021163.1	Ca_kabuli_chr04	37708964	GG	TT	1946822937
SNP_P4_58728_37708976	NC_021163.1	Ca_kabuli_chr04	37708976	TT	CC	1946822939
SNP_P4_58729_37709043	NC_021163.1	Ca_kabuli_chr04	37709043	GG	TT	1946822941
SNP_P4_58730_37709111	NC_021163.1	Ca_kabuli_chr04	37709111	CC	TT	1946822943
SNP_P4_58731_37709144	NC_021163.1	Ca_kabuli_chr04	37709144	TT	GG	1946822945
SNP_P4_58732_37709221	NC_021163.1	Ca_kabuli_chr04	37709221	TT	CC	1946822947
SNP_P4_58733_37709251	NC_021163.1	Ca_kabuli_chr04	37709251	TT	GG	1946822949
SNP_P4_58734_37709255	NC_021163.1	Ca_kabuli_chr04	37709255	AA	CC	1946822951
SNP_P4_58735_37709257	NC_021163.1	Ca_kabuli_chr04	37709257	AA	GG	1946822953
SNP_P4_58736_37709723	NC_021163.1	Ca_kabuli_chr04	37709723	AA	GG	1946822955
SNP_P4_58737_37710133	NC_021163.1	Ca_kabuli_chr04	37710133	TT	AA	1946822957
SNP_P4_58738_37710234	NC_021163.1	Ca_kabuli_chr04	37710234	AA	GG	1946822959
SNP_P4_58739_37710252	NC_021163.1	Ca_kabuli_chr04	37710252	TT	AA	1946822961
SNP_P4_58740_37710420	NC_021163.1	Ca_kabuli_chr04	37710420	AA	GG	1946822963

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_58743_37711484	NC_021163.1	Ca_kabuli_chr04	37711484	CC	TT	1946822967
SNP_P4_58744_37711492	NC_021163.1	Ca_kabuli_chr04	37711492	AA	CC	1946822969
SNP_P4_58746_37712458	NC_021163.1	Ca_kabuli_chr04	37712458	AA	CC	1946822971
SNP_P4_58747_37713209	NC_021163.1	Ca_kabuli_chr04	37713209	AA	GG	1946822973
SNP_P4_58748_37715050	NC_021163.1	Ca_kabuli_chr04	37715050	CC	TT	1946822975
SNP_P4_58749_37717354	NC_021163.1	Ca_kabuli_chr04	37717354	AA	GG	1946822977
SNP_P4_58750_37718446	NC_021163.1	Ca_kabuli_chr04	37718446	AA	TT	1946822979
SNP_P4_58751_37718479	NC_021163.1	Ca_kabuli_chr04	37718479	TT	CC	1946822981
SNP_P4_58752_37721468	NC_021163.1	Ca_kabuli_chr04	37721468	CC	TT	1946822984
SNP_P4_58753_37723859	NC_021163.1	Ca_kabuli_chr04	37723859	CC	TT	1946822986
SNP_P4_58754_37724158	NC_021163.1	Ca_kabuli_chr04	37724158	AA	GG	1946822988
SNP_P4_58755_37725558	NC_021163.1	Ca_kabuli_chr04	37725558	AA	GG	1946822990
SNP_P4_58756_37725965	NC_021163.1	Ca_kabuli_chr04	37725965	TT	GG	1946822992
SNP_P4_58757_37726662	NC_021163.1	Ca_kabuli_chr04	37726662	AA	GG	1946822994
SNP_P4_58758_37726910	NC_021163.1	Ca_kabuli_chr04	37726910	AA	GG	1946822996
SNP_P4_58760_37728325	NC_021163.1	Ca_kabuli_chr04	37728325	AA	TT	1946822998
SNP_P4_58761_37728326	NC_021163.1	Ca_kabuli_chr04	37728326	GG	AA	1946823000
SNP_P4_58762_37728381	NC_021163.1	Ca_kabuli_chr04	37728381	AA	GG	1946823002
SNP_P4_58763_37728385	NC_021163.1	Ca_kabuli_chr04	37728385	CC	TT	1946823004
SNP_P4_58764_37728429	NC_021163.1	Ca_kabuli_chr04	37728429	AA	GG	1946823006
SNP_P4_58765_37728550	NC_021163.1	Ca_kabuli_chr04	37728550	GG	AA	1946823008
SNP_P4_58766_37728620	NC_021163.1	Ca_kabuli_chr04	37728620	TT	AA	1946823010
SNP_P4_58767_37728622	NC_021163.1	Ca_kabuli_chr04	37728622	TT	AA	1946823012
SNP_P4_58768_37728632	NC_021163.1	Ca_kabuli_chr04	37728632	TT	CC	1946823014
SNP_P4_58769_37728646	NC_021163.1	Ca_kabuli_chr04	37728646	TT	CC	1946823016
SNP_P4_58770_37728651	NC_021163.1	Ca_kabuli_chr04	37728651	TT	GG	1946823018
SNP_P4_58771_37728666	NC_021163.1	Ca_kabuli_chr04	37728666	CC	TT	1946823020
SNP_P4_58772_37728801	NC_021163.1	Ca_kabuli_chr04	37728801	AA	GG	1946823022
SNP_P4_58773_37729285	NC_021163.1	Ca_kabuli_chr04	37729285	AA	GG	1946823024
SNP_P4_58774_37730145	NC_021163.1	Ca_kabuli_chr04	37730145	GG	AA	1946823026
SNP_P4_58775_37730215	NC_021163.1	Ca_kabuli_chr04	37730215	CC	TT	1946823028
SNP_P4_58776_37730666	NC_021163.1	Ca_kabuli_chr04	37730666	TT	CC	1946823030
SNP_P4_58777_37731044	NC_021163.1	Ca_kabuli_chr04	37731044	CC	TT	1946823032
SNP_P4_58778_37731102	NC_021163.1	Ca_kabuli_chr04	37731102	CC	TT	1946823034
SNP_P4_58779_37731477	NC_021163.1	Ca_kabuli_chr04	37731477	GG	TT	1946823036
SNP_P4_58780_37735417	NC_021163.1	Ca_kabuli_chr04	37735417	GG	AA	1946823038
SNP_P4_58781_37735450	NC_021163.1	Ca_kabuli_chr04	37735450	AA	GG	1946823040
SNP_P4_58782_37737511	NC_021163.1	Ca_kabuli_chr04	37737511	CC	GG	1946823042
SNP_P4_58783_37737524	NC_021163.1	Ca_kabuli_chr04	37737524	TT	GG	1946823044
SNP_P4_58784_37737533	NC_021163.1	Ca_kabuli_chr04	37737533	GG	AA	1946823046
SNP_P4_58785_37737547	NC_021163.1	Ca_kabuli_chr04	37737547	TT	CC	1946823048

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_58787_37737804	NC_021163.1	Ca_kabuli_chr04	37737804	AA	GG	1946823052
SNP_P4_58788_37737859	NC_021163.1	Ca_kabuli_chr04	37737859	AA	TT	1946823054
SNP_P4_58789_37737946	NC_021163.1	Ca_kabuli_chr04	37737946	CC	TT	1946823056
SNP_P4_58790_37738267	NC_021163.1	Ca_kabuli_chr04	37738267	TT	CC	1946823059
SNP_P4_58791_37738279	NC_021163.1	Ca_kabuli_chr04	37738279	AA	GG	1946823061
SNP_P4_58792_37741329	NC_021163.1	Ca_kabuli_chr04	37741329	TT	GG	1946823063
SNP_P4_58793_37741666	NC_021163.1	Ca_kabuli_chr04	37741666	GG	AA	1946823065
SNP_P4_58794_37741835	NC_021163.1	Ca_kabuli_chr04	37741835	GG	AA	1946823067
SNP_P4_58795_37742888	NC_021163.1	Ca_kabuli_chr04	37742888	AA	TT	1946823069
SNP_P4_58796_37743028	NC_021163.1	Ca_kabuli_chr04	37743028	AA	GG	1946823071
SNP_P4_58797_37743149	NC_021163.1	Ca_kabuli_chr04	37743149	GG	CC	1946823073
SNP_P4_58798_37743151	NC_021163.1	Ca_kabuli_chr04	37743151	AA	GG	1946823075
SNP_P4_58799_37743155	NC_021163.1	Ca_kabuli_chr04	37743155	AA	GG	1946823077
SNP_P4_58800_37743285	NC_021163.1	Ca_kabuli_chr04	37743285	TT	AA	1946823079
SNP_P4_58801_37743300	NC_021163.1	Ca_kabuli_chr04	37743300	CC	GG	1946823081
SNP_P4_58802_37743943	NC_021163.1	Ca_kabuli_chr04	37743943	GG	CC	1946823083
SNP_P4_58804_37746074	NC_021163.1	Ca_kabuli_chr04	37746074	TT	CC	1946823085
SNP_P4_58806_37746453	NC_021163.1	Ca_kabuli_chr04	37746453	GG	AA	1946823087
SNP_P4_58807_37746458	NC_021163.1	Ca_kabuli_chr04	37746458	TT	CC	1946823089
SNP_P4_58808_37747548	NC_021163.1	Ca_kabuli_chr04	37747548	TT	AA	1946823091
SNP_P4_58809_37748156	NC_021163.1	Ca_kabuli_chr04	37748156	TT	GG	1946823093
SNP_P4_58810_37748277	NC_021163.1	Ca_kabuli_chr04	37748277	CC	TT	1946823095
SNP_P4_58811_37748375	NC_021163.1	Ca_kabuli_chr04	37748375	GG	AA	1946823097
SNP_P4_58812_37748377	NC_021163.1	Ca_kabuli_chr04	37748377	CC	TT	1946823099
SNP_P4_58813_37748418	NC_021163.1	Ca_kabuli_chr04	37748418	GG	AA	1946823101
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SNP_P4_58815_37748615	NC_021163.1	Ca_kabuli_chr04	37748615	TT	AA	1946823105
SNP_P4_58816_37748657	NC_021163.1	Ca_kabuli_chr04	37748657	GG	TT	1946823107
SNP_P4_58817_37748675	NC_021163.1	Ca_kabuli_chr04	37748675	TT	CC	1946823109
SNP_P4_58818_37748677	NC_021163.1	Ca_kabuli_chr04	37748677	CC	TT	1946823111
SNP_P4_58819_37748678	NC_021163.1	Ca_kabuli_chr04	37748678	AA	GG	1946823113
SNP_P4_58820_37749831	NC_021163.1	Ca_kabuli_chr04	37749831	CC	TT	1946823115
SNP_P4_58821_37750109	NC_021163.1	Ca_kabuli_chr04	37750109	GG	AA	1946823117
SNP_P4_58822_37750245	NC_021163.1	Ca_kabuli_chr04	37750245	GG	AA	1946823119
SNP_P4_58823_37750490	NC_021163.1	Ca_kabuli_chr04	37750490	AA	CC	1946823121
SNP_P4_58824_37751147	NC_021163.1	Ca_kabuli_chr04	37751147	CC	TT	1946823123
SNP_P4_58825_37751166	NC_021163.1	Ca_kabuli_chr04	37751166	AA	GG	1946823125
SNP_P4_58826_37751199	NC_021163.1	Ca_kabuli_chr04	37751199	TT	CC	1946823127
SNP_P4_58827_37751371	NC_021163.1	Ca_kabuli_chr04	37751371	CC	AA	1946823129
SNP_P4_58828_37751406	NC_021163.1	Ca_kabuli_chr04	37751406	GG	AA	1946823131
SNP_P4_58831_37755608	NC_021163.1	Ca_kabuli_chr04	37755608	CC	TT	1946823133

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_58834_37757205	NC_021163.1	Ca_kabuli_chr04	37757205	GG	AA	1946823139
SNP_P4_58835_37757395	NC_021163.1	Ca_kabuli_chr04	37757395	CC	TT	1946823141
SNP_P4_58836_37757401	NC_021163.1	Ca_kabuli_chr04	37757401	AA	GG	1946823143
SNP_P4_58837_37757435	NC_021163.1	Ca_kabuli_chr04	37757435	TT	CC	1946823146
SNP_P4_58838_37757437	NC_021163.1	Ca_kabuli_chr04	37757437	AA	CC	1946823148
SNP_P4_58839_37757472	NC_021163.1	Ca_kabuli_chr04	37757472	GG	AA	1946823150
SNP_P4_58840_37760147	NC_021163.1	Ca_kabuli_chr04	37760147	CC	TT	1946823152
SNP_P4_58842_37760692	NC_021163.1	Ca_kabuli_chr04	37760692	CC	TT	1946823154
SNP_P4_58843_37760936	NC_021163.1	Ca_kabuli_chr04	37760936	GG	AA	1946823156
SNP_P4_58844_37760950	NC_021163.1	Ca_kabuli_chr04	37760950	GG	AA	1946823158
SNP_P4_58845_37760980	NC_021163.1	Ca_kabuli_chr04	37760980	AA	GG	1946823160
SNP_P4_58846_37761162	NC_021163.1	Ca_kabuli_chr04	37761162	AA	CC	1946823162
SNP_P4_58847_37761761	NC_021163.1	Ca_kabuli_chr04	37761761	TT	CC	1946823164
SNP_P4_58848_37761779	NC_021163.1	Ca_kabuli_chr04	37761779	CC	TT	1946823166
SNP_P4_58849_37761846	NC_021163.1	Ca_kabuli_chr04	37761846	TT	GG	1946823168
SNP_P4_58850_37761879	NC_021163.1	Ca_kabuli_chr04	37761879	AA	GG	1946823170
SNP_P4_58851_37761981	NC_021163.1	Ca_kabuli_chr04	37761981	GG	AA	1946823172
SNP_P4_58852_37762279	NC_021163.1	Ca_kabuli_chr04	37762279	TT	CC	1946823174
SNP_P4_58853_37762358	NC_021163.1	Ca_kabuli_chr04	37762358	GG	AA	1946823176
SNP_P4_58854_37767712	NC_021163.1	Ca_kabuli_chr04	37767712	GG	AA	1946823178
SNP_P4_58855_37769877	NC_021163.1	Ca_kabuli_chr04	37769877	GG	AA	1946823180
SNP_P4_58856_37770390	NC_021163.1	Ca_kabuli_chr04	37770390	AA	GG	1946823182
SNP_P4_58857_37777378	NC_021163.1	Ca_kabuli_chr04	37777378	TT	CC	1946823184
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SNP_P4_58859_37781034	NC_021163.1	Ca_kabuli_chr04	37781034	AA	GG	1946823188
SNP_P4_58860_37783916	NC_021163.1	Ca_kabuli_chr04	37783916	GG	AA	1946823190
SNP_P4_58861_37783959	NC_021163.1	Ca_kabuli_chr04	37783959	GG	AA	1946823192
SNP_P4_58862_37783967	NC_021163.1	Ca_kabuli_chr04	37783967	TT	AA	1946823194
SNP_P4_58863_37783984	NC_021163.1	Ca_kabuli_chr04	37783984	TT	GG	1946823196
SNP_P4_58864_37783999	NC_021163.1	Ca_kabuli_chr04	37783999	TT	CC	1946823198
SNP_P4_58865_37784003	NC_021163.1	Ca_kabuli_chr04	37784003	GG	AA	1946823200
SNP_P4_58866_37784014	NC_021163.1	Ca_kabuli_chr04	37784014	CC	GG	1946823202
SNP_P4_58867_37785626	NC_021163.1	Ca_kabuli_chr04	37785626	AA	GG	1946823204
SNP_P4_58868_37786953	NC_021163.1	Ca_kabuli_chr04	37786953	TT	CC	1946823206
SNP_P4_58869_37787440	NC_021163.1	Ca_kabuli_chr04	37787440	TT	GG	1946823208
SNP_P4_58870_37787624	NC_021163.1	Ca_kabuli_chr04	37787624	TT	CC	1946823210
SNP_P4_58871_37787746	NC_021163.1	Ca_kabuli_chr04	37787746	TT	CC	1946823212
SNP_P4_58873_37788485	NC_021163.1	Ca_kabuli_chr04	37788485	TT	CC	1946823214
SNP_P4_58874_37790288	NC_021163.1	Ca_kabuli_chr04	37790288	CC	TT	1946823216
SNP_P4_58875_37790295	NC_021163.1	Ca_kabuli_chr04	37790295	TT	AA	1946823218

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_58878_37793574	NC_021163.1	Ca_kabuli_chr04	37793574	TT	AA	1946823224
SNP_P4_58879_37793749	NC_021163.1	Ca_kabuli_chr04	37793749	GG	AA	1946823227
SNP_P4_58880_37793757	NC_021163.1	Ca_kabuli_chr04	37793757	AA	CC	1946823229
SNP_P4_58881_37793766	NC_021163.1	Ca_kabuli_chr04	37793766	GG	AA	1946823231
SNP_P4_58882_37796140	NC_021163.1	Ca_kabuli_chr04	37796140	CC	GG	1946823233
SNP_P4_58883_37796357	NC_021163.1	Ca_kabuli_chr04	37796357	AA	GG	1946823235
SNP_P4_58884_37797651	NC_021163.1	Ca_kabuli_chr04	37797651	GG	CC	1946823237
SNP_P4_58885_37797676	NC_021163.1	Ca_kabuli_chr04	37797676	CC	TT	1946823239
SNP_P4_58886_37798792	NC_021163.1	Ca_kabuli_chr04	37798792	CC	TT	1946823241
SNP_P4_58887_37800495	NC_021163.1	Ca_kabuli_chr04	37800495	GG	TT	1946823243
SNP_P4_58888_37800578	NC_021163.1	Ca_kabuli_chr04	37800578	CC	TT	1946823245
SNP_P4_58889_37800581	NC_021163.1	Ca_kabuli_chr04	37800581	CC	TT	1946823247
SNP_P4_58890_37800582	NC_021163.1	Ca_kabuli_chr04	37800582	AA	GG	1946823249
SNP_P4_58891_37800606	NC_021163.1	Ca_kabuli_chr04	37800606	AA	GG	1946823251
SNP_P4_58892_37801631	NC_021163.1	Ca_kabuli_chr04	37801631	CC	TT	1946823253
SNP_P4_58893_37801636	NC_021163.1	Ca_kabuli_chr04	37801636	CC	TT	1946823255
SNP_P4_58894_37801867	NC_021163.1	Ca_kabuli_chr04	37801867	TT	AA	1946823257
SNP_P4_58895_37801878	NC_021163.1	Ca_kabuli_chr04	37801878	CC	TT	1946823259
SNP_P4_58896_37801892	NC_021163.1	Ca_kabuli_chr04	37801892	TT	AA	1946823261
SNP_P4_58897_37801909	NC_021163.1	Ca_kabuli_chr04	37801909	TT	GG	1946823263
SNP_P4_58898_37801947	NC_021163.1	Ca_kabuli_chr04	37801947	TT	CC	1946823265
SNP_P4_58899_37801993	NC_021163.1	Ca_kabuli_chr04	37801993	TT	CC	1946823267
SNP_P4_58900_37801999	NC_021163.1	Ca_kabuli_chr04	37801999	AA	GG	1946823269
SNP_P4_58901_37802182	NC_021163.1	Ca_kabuli_chr04	37802182	GG	AA	1946823271
SNP_P4_58902_37802193	NC_021163.1	Ca_kabuli_chr04	37802193	TT	CC	1946823273
SNP_P4_58903_37802194	NC_021163.1	Ca_kabuli_chr04	37802194	AA	CC	1946823275
SNP_P4_58904_37802210	NC_021163.1	Ca_kabuli_chr04	37802210	TT	CC	1946823277
SNP_P4_58905_37802212	NC_021163.1	Ca_kabuli_chr04	37802212	AA	GG	1946823279
SNP_P4_58906_37802217	NC_021163.1	Ca_kabuli_chr04	37802217	CC	AA	1946823281
SNP_P4_58907_37802245	NC_021163.1	Ca_kabuli_chr04	37802245	TT	CC	1946823283
SNP_P4_58908_37802650	NC_021163.1	Ca_kabuli_chr04	37802650	TT	CC	1946823285
SNP_P4_58909_37802676	NC_021163.1	Ca_kabuli_chr04	37802676	GG	AA	1946823288
SNP_P4_58910_37802721	NC_021163.1	Ca_kabuli_chr04	37802721	CC	TT	1946823290
SNP_P4_58911_37802723	NC_021163.1	Ca_kabuli_chr04	37802723	TT	CC	1946823292
SNP_P4_58912_37802730	NC_021163.1	Ca_kabuli_chr04	37802730	CC	TT	1946823294
SNP_P4_58913_37804912	NC_021163.1	Ca_kabuli_chr04	37804912	AA	GG	1946823296
SNP_P4_58914_37805568	NC_021163.1	Ca_kabuli_chr04	37805568	GG	AA	1946823298
SNP_P4_58915_37806745	NC_021163.1	Ca_kabuli_chr04	37806745	AA	TT	1946823300
SNP_P4_58916_37810673	NC_021163.1	Ca_kabuli_chr04	37810673	AA	GG	1946823302
SNP_P4_58917_37810681	NC_021163.1	Ca_kabuli_chr04	37810681	GG	TT	1946823304

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_58919_37811241	NC_021163.1	Ca_kabuli_chr04	37811241	AA	TT	1946823308
SNP_P4_58920_37811294	NC_021163.1	Ca_kabuli_chr04	37811294	AA	GG	1946823310
SNP_P4_58921_37815310	NC_021163.1	Ca_kabuli_chr04	37815310	AA	CC	1946823312
SNP_P4_58922_37815356	NC_021163.1	Ca_kabuli_chr04	37815356	AA	GG	1946823314
SNP_P4_58924_37817646	NC_021163.1	Ca_kabuli_chr04	37817646	GG	AA	1946823316
SNP_P4_58925_37817685	NC_021163.1	Ca_kabuli_chr04	37817685	AA	TT	1946823318
SNP_P4_58926_37819100	NC_021163.1	Ca_kabuli_chr04	37819100	AA	GG	1946823320
SNP_P4_58927_37820317	NC_021163.1	Ca_kabuli_chr04	37820317	CC	TT	1946823322
SNP_P4_58928_37823122	NC_021163.1	Ca_kabuli_chr04	37823122	GG	AA	1946823324
SNP_P4_58929_37823352	NC_021163.1	Ca_kabuli_chr04	37823352	TT	CC	1946823326
SNP_P4_58931_37826846	NC_021163.1	Ca_kabuli_chr04	37826846	GG	AA	1946823328
SNP_P4_58932_37827383	NC_021163.1	Ca_kabuli_chr04	37827383	GG	AA	1946823330
SNP_P4_58933_37827386	NC_021163.1	Ca_kabuli_chr04	37827386	AA	TT	1946823332
SNP_P4_58934_37827405	NC_021163.1	Ca_kabuli_chr04	37827405	GG	CC	1946823334
SNP_P4_58935_37827640	NC_021163.1	Ca_kabuli_chr04	37827640	AA	TT	1946823336
SNP_P4_58936_37827664	NC_021163.1	Ca_kabuli_chr04	37827664	AA	TT	1946823338
SNP_P4_58937_37828355	NC_021163.1	Ca_kabuli_chr04	37828355	TT	AA	1946823340
SNP_P4_58938_37828379	NC_021163.1	Ca_kabuli_chr04	37828379	TT	CC	1946823342
SNP_P4_58939_37836932	NC_021163.1	Ca_kabuli_chr04	37836932	CC	TT	1946823344
SNP_P4_58940_37838782	NC_021163.1	Ca_kabuli_chr04	37838782	CC	TT	1946823346
SNP_P4_58941_37838804	NC_021163.1	Ca_kabuli_chr04	37838804	GG	AA	1946823348
SNP_P4_58942_37840497	NC_021163.1	Ca_kabuli_chr04	37840497	CC	TT	1946823350
SNP_P4_58943_37841854	NC_021163.1	Ca_kabuli_chr04	37841854	CC	TT	1946823353
SNP_P4_58944_37842151	NC_021163.1	Ca_kabuli_chr04	37842151	CC	TT	1946823355
SNP_P4_58945_37842186	NC_021163.1	Ca_kabuli_chr04	37842186	GG	TT	1946823357
SNP_P4_58946_37842204	NC_021163.1	Ca_kabuli_chr04	37842204	CC	AA	1946823359
SNP_P4_58947_37842425	NC_021163.1	Ca_kabuli_chr04	37842425	CC	TT	1946823361
SNP_P4_58948_37843297	NC_021163.1	Ca_kabuli_chr04	37843297	AA	TT	1946823363
SNP_P4_58949_37843331	NC_021163.1	Ca_kabuli_chr04	37843331	TT	AA	1946823365
SNP_P4_58950_37843349	NC_021163.1	Ca_kabuli_chr04	37843349	TT	CC	1946823367
SNP_P4_58951_37843360	NC_021163.1	Ca_kabuli_chr04	37843360	CC	GG	1946823369
SNP_P4_58952_37844204	NC_021163.1	Ca_kabuli_chr04	37844204	TT	CC	1946823371
SNP_P4_58953_37846166	NC_021163.1	Ca_kabuli_chr04	37846166	AA	GG	1946823373
SNP_P4_58954_37846197	NC_021163.1	Ca_kabuli_chr04	37846197	AA	GG	1946823374
SNP_P4_58955_37846227	NC_021163.1	Ca_kabuli_chr04	37846227	AA	CC	1946823375
SNP_P4_58956_37846242	NC_021163.1	Ca_kabuli_chr04	37846242	CC	TT	1946823376
SNP_P4_58957_37846256	NC_021163.1	Ca_kabuli_chr04	37846256	TT	CC	1946823377
SNP_P4_58958_37846260	NC_021163.1	Ca_kabuli_chr04	37846260	CC	TT	1946823379
SNP_P4_58959_37846261	NC_021163.1	Ca_kabuli_chr04	37846261	TT	CC	1946823381
SNP_P4_58960_37846264	NC_021163.1	Ca_kabuli_chr04	37846264	CC	AA	1946823383
SNP_P4_58961_37846279	NC_021163.1	Ca_kabuli_chr04	37846279	CC	TT	1946823385

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_58963_37846598	NC_021163.1	Ca_kabuli_chr04	37846598	CC	TT	1946823390
SNP_P4_58964_37846691	NC_021163.1	Ca_kabuli_chr04	37846691	AA	GG	1946823392
SNP_P4_58965_37846697	NC_021163.1	Ca_kabuli_chr04	37846697	GG	AA	1946823394
SNP_P4_58966_37846715	NC_021163.1	Ca_kabuli_chr04	37846715	AA	GG	1946823396
SNP_P4_58967_37846742	NC_021163.1	Ca_kabuli_chr04	37846742	TT	CC	1946823398
SNP_P4_58968_37846748	NC_021163.1	Ca_kabuli_chr04	37846748	GG	AA	1946823400
SNP_P4_58969_37846941	NC_021163.1	Ca_kabuli_chr04	37846941	GG	TT	1946823402
SNP_P4_58970_37847869	NC_021163.1	Ca_kabuli_chr04	37847869	CC	TT	1946823404
SNP_P4_58971_37848204	NC_021163.1	Ca_kabuli_chr04	37848204	TT	CC	1946823406
SNP_P4_58972_37848213	NC_021163.1	Ca_kabuli_chr04	37848213	TT	GG	1946823408
SNP_P4_58973_37848477	NC_021163.1	Ca_kabuli_chr04	37848477	CC	TT	1946823410
SNP_P4_58974_37848496	NC_021163.1	Ca_kabuli_chr04	37848496	CC	TT	1946823412
SNP_P4_58975_37849164	NC_021163.1	Ca_kabuli_chr04	37849164	CC	TT	1946823414
SNP_P4_58976_37850392	NC_021163.1	Ca_kabuli_chr04	37850392	CC	TT	1946823416
SNP_P4_58977_37850408	NC_021163.1	Ca_kabuli_chr04	37850408	GG	AA	1946823418
SNP_P4_58978_37850521	NC_021163.1	Ca_kabuli_chr04	37850521	TT	CC	1946823420
SNP_P4_58980_37850644	NC_021163.1	Ca_kabuli_chr04	37850644	TT	AA	1946823422
SNP_P4_58981_37850819	NC_021163.1	Ca_kabuli_chr04	37850819	GG	AA	1946823424
SNP_P4_58982_37850873	NC_021163.1	Ca_kabuli_chr04	37850873	CC	TT	1946823426
SNP_P4_58983_37850888	NC_021163.1	Ca_kabuli_chr04	37850888	GG	AA	1946823428
SNP_P4_58984_37850919	NC_021163.1	Ca_kabuli_chr04	37850919	AA	GG	1946823430
SNP_P4_58985_37852110	NC_021163.1	Ca_kabuli_chr04	37852110	GG	AA	1946823432
SNP_P4_58986_37853550	NC_021163.1	Ca_kabuli_chr04	37853550	AA	GG	1946823434
SNP_P4_58987_37853559	NC_021163.1	Ca_kabuli_chr04	37853559	TT	CC	1946823436
SNP_P4_58988_37853572	NC_021163.1	Ca_kabuli_chr04	37853572	TT	CC	1946823438
SNP_P4_58989_37853610	NC_021163.1	Ca_kabuli_chr04	37853610	GG	AA	1946823440
SNP_P4_58990_37857921	NC_021163.1	Ca_kabuli_chr04	37857921	GG	AA	1946823442
SNP_P4_58991_37859795	NC_021163.1	Ca_kabuli_chr04	37859795	CC	AA	1946823444
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SNP_P4_58995_37861846	NC_021163.1	Ca_kabuli_chr04	37861846	TT	AA	1946823448
SNP_P4_58996_37861890	NC_021163.1	Ca_kabuli_chr04	37861890	AA	GG	1946823450
SNP_P4_58997_37862981	NC_021163.1	Ca_kabuli_chr04	37862981	TT	AA	1946823452
SNP_P4_58998_37865722	NC_021163.1	Ca_kabuli_chr04	37865722	AA	GG	1946823454
SNP_P4_58999_37866221	NC_021163.1	Ca_kabuli_chr04	37866221	TT	CC	1946823456
SNP_P4_59000_37866224	NC_021163.1	Ca_kabuli_chr04	37866224	GG	AA	1946823458
SNP_P4_59001_37867341	NC_021163.1	Ca_kabuli_chr04	37867341	GG	TT	1946823460
SNP_P4_59002_37868612	NC_021163.1	Ca_kabuli_chr04	37868612	GG	AA	1946823462
SNP_P4_59003_37868644	NC_021163.1	Ca_kabuli_chr04	37868644	GG	AA	1946823464
SNP_P4_59004_37869061	NC_021163.1	Ca_kabuli_chr04	37869061	TT	CC	1946823466
SNP_P4_59006_37871915	NC_021163.1	Ca_kabuli_chr04	37871915	CC	TT	1946823468
SNP_P4_59007_37872448	NC_021163.1	Ca_kabuli_chr04	37872448	TT	GG	1946823470

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_59010_37872776	NC_021163.1	Ca_kabuli_chr04	37872776	TT	CC	1946823474
SNP_P4_59011_37874767	NC_021163.1	Ca_kabuli_chr04	37874767	AA	TT	1946823476
SNP_P4_59012_37876083	NC_021163.1	Ca_kabuli_chr04	37876083	TT	AA	1946823478
SNP_P4_59013_37879621	NC_021163.1	Ca_kabuli_chr04	37879621	TT	GG	1946823480
SNP_P4_59014_37880199	NC_021163.1	Ca_kabuli_chr04	37880199	CC	TT	1946823482
SNP_P4_59015_37880218	NC_021163.1	Ca_kabuli_chr04	37880218	GG	AA	1946823484
SNP_P4_59016_37880958	NC_021163.1	Ca_kabuli_chr04	37880958	AA	GG	1946823486
SNP_P4_59018_37881264	NC_021163.1	Ca_kabuli_chr04	37881264	GG	AA	1946823488
SNP_P4_59019_37881461	NC_021163.1	Ca_kabuli_chr04	37881461	GG	CC	1946823490
SNP_P4_59020_37881651	NC_021163.1	Ca_kabuli_chr04	37881651	TT	AA	1946823492
SNP_P4_59021_37883168	NC_021163.1	Ca_kabuli_chr04	37883168	TT	CC	1946823494
SNP_P4_59022_37883181	NC_021163.1	Ca_kabuli_chr04	37883181	AA	CC	1946823496
SNP_P4_59023_37883469	NC_021163.1	Ca_kabuli_chr04	37883469	CC	TT	1946823498
SNP_P4_59024_37884220	NC_021163.1	Ca_kabuli_chr04	37884220	CC	AA	1946823500
SNP_P4_59025_37884256	NC_021163.1	Ca_kabuli_chr04	37884256	AA	CC	1946823502
SNP_P4_59026_37884283	NC_021163.1	Ca_kabuli_chr04	37884283	GG	TT	1946823504
SNP_P4_59027_37884464	NC_021163.1	Ca_kabuli_chr04	37884464	GG	TT	1946823506
SNP_P4_59028_37884712	NC_021163.1	Ca_kabuli_chr04	37884712	GG	AA	1946823508
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SNP_P4_59030_37884739	NC_021163.1	Ca_kabuli_chr04	37884739	GG	AA	1946823513
SNP_P4_59031_37884744	NC_021163.1	Ca_kabuli_chr04	37884744	TT	GG	1946823515
SNP_P4_59032_37884810	NC_021163.1	Ca_kabuli_chr04	37884810	CC	AA	1946823517
SNP_P4_59033_37884828	NC_021163.1	Ca_kabuli_chr04	37884828	GG	AA	1946823519
SNP_P4_59034_37884921	NC_021163.1	Ca_kabuli_chr04	37884921	CC	AA	1946823521
SNP_P4_59035_37884982	NC_021163.1	Ca_kabuli_chr04	37884982	AA	GG	1946823523
SNP_P4_59036_37885015	NC_021163.1	Ca_kabuli_chr04	37885015	GG	AA	1946823525
SNP_P4_59037_37885154	NC_021163.1	Ca_kabuli_chr04	37885154	GG	AA	1946823527
SNP_P4_59038_37885245	NC_021163.1	Ca_kabuli_chr04	37885245	CC	TT	1946823529
SNP_P4_59039_37885293	NC_021163.1	Ca_kabuli_chr04	37885293	AA	GG	1946823531
SNP_P4_59040_37886280	NC_021163.1	Ca_kabuli_chr04	37886280	AA	GG	1946823533
SNP_P4_59041_37886315	NC_021163.1	Ca_kabuli_chr04	37886315	CC	AA	1946823535
SNP_P4_59042_37886672	NC_021163.1	Ca_kabuli_chr04	37886672	AA	CC	1946823537
SNP_P4_59043_37886825	NC_021163.1	Ca_kabuli_chr04	37886825	GG	AA	1946823539
SNP_P4_59044_37887022	NC_021163.1	Ca_kabuli_chr04	37887022	CC	TT	1946823541
SNP_P4_59045_37887045	NC_021163.1	Ca_kabuli_chr04	37887045	TT	CC	1946823543
SNP_P4_59046_37887049	NC_021163.1	Ca_kabuli_chr04	37887049	TT	CC	1946823545
SNP_P4_59047_37887055	NC_021163.1	Ca_kabuli_chr04	37887055	TT	AA	1946823547
SNP_P4_59048_37887062	NC_021163.1	Ca_kabuli_chr04	37887062	GG	AA	1946823549
SNP_P4_59049_37887674	NC_021163.1	Ca_kabuli_chr04	37887674	CC	TT	1946823551
SNP_P4_59050_37887901	NC_021163.1	Ca_kabuli_chr04	37887901	AA	TT	1946823553
SNP_P4_59051_37889393	NC_021163.1	Ca_kabuli_chr04	37889393	TT	AA	1946823555

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_59054_37891023	NC_021163.1	Ca_kabuli_chr04	37891023	TT	CC	1946823561
SNP_P4_59055_37891402	NC_021163.1	Ca_kabuli_chr04	37891402	GG	AA	1946823563
SNP_P4_59057_37895220	NC_021163.1	Ca_kabuli_chr04	37895220	TT	GG	1946823565
SNP_P4_59058_37895540	NC_021163.1	Ca_kabuli_chr04	37895540	GG	TT	1946823568
SNP_P4_59059_37895601	NC_021163.1	Ca_kabuli_chr04	37895601	GG	CC	1946823570
SNP_P4_59061_37900930	NC_021163.1	Ca_kabuli_chr04	37900930	GG	AA	1946823572
SNP_P4_59062_37907161	NC_021163.1	Ca_kabuli_chr04	37907161	GG	AA	1946823574
SNP_P4_59063_37907165	NC_021163.1	Ca_kabuli_chr04	37907165	CC	TT	1946823576
SNP_P4_59064_37907738	NC_021163.1	Ca_kabuli_chr04	37907738	CC	TT	1946823578
SNP_P4_59065_37907769	NC_021163.1	Ca_kabuli_chr04	37907769	TT	CC	1946823580
SNP_P4_59066_37907793	NC_021163.1	Ca_kabuli_chr04	37907793	AA	GG	1946823582
SNP_P4_59067_37908490	NC_021163.1	Ca_kabuli_chr04	37908490	TT	CC	1946823584
SNP_P4_59068_37908501	NC_021163.1	Ca_kabuli_chr04	37908501	AA	GG	1946823586
SNP_P4_59069_37908511	NC_021163.1	Ca_kabuli_chr04	37908511	AA	GG	1946823588
SNP_P4_59071_37909209	NC_021163.1	Ca_kabuli_chr04	37909209	CC	AA	1946823590
SNP_P4_59072_37909210	NC_021163.1	Ca_kabuli_chr04	37909210	AA	CC	1946823592
SNP_P4_59073_37909712	NC_021163.1	Ca_kabuli_chr04	37909712	CC	AA	1946823594
SNP_P4_59074_37910552	NC_021163.1	Ca_kabuli_chr04	37910552	CC	TT	1946823596
SNP_P4_59075_37910570	NC_021163.1	Ca_kabuli_chr04	37910570	GG	AA	1946823598
SNP_P4_59076_37910605	NC_021163.1	Ca_kabuli_chr04	37910605	TT	CC	1946823600
SNP_P4_59077_37910609	NC_021163.1	Ca_kabuli_chr04	37910609	TT	CC	1946823602
SNP_P4_59078_37911545	NC_021163.1	Ca_kabuli_chr04	37911545	AA	GG	1946823603
SNP_P4_59079_37911558	NC_021163.1	Ca_kabuli_chr04	37911558	CC	TT	1946823604
SNP_P4_59080_37911566	NC_021163.1	Ca_kabuli_chr04	37911566	CC	TT	1946823605
SNP_P4_59081_37911568	NC_021163.1	Ca_kabuli_chr04	37911568	AA	GG	1946823606
SNP_P4_59082_37911707	NC_021163.1	Ca_kabuli_chr04	37911707	CC	AA	1946823608
SNP_P4_59083_37911727	NC_021163.1	Ca_kabuli_chr04	37911727	TT	CC	1946823610
SNP_P4_59084_37911761	NC_021163.1	Ca_kabuli_chr04	37911761	TT	CC	1946823612
SNP_P4_59085_37911771	NC_021163.1	Ca_kabuli_chr04	37911771	GG	AA	1946823614
SNP_P4_59086_37912007	NC_021163.1	Ca_kabuli_chr04	37912007	CC	TT	1946823616
SNP_P4_59087_37912018	NC_021163.1	Ca_kabuli_chr04	37912018	AA	TT	1946823618
SNP_P4_59088_37917057	NC_021163.1	Ca_kabuli_chr04	37917057	TT	AA	1946823620
SNP_P4_59089_37918859	NC_021163.1	Ca_kabuli_chr04	37918859	CC	AA	1946823622
SNP_P4_59090_37918958	NC_021163.1	Ca_kabuli_chr04	37918958	CC	TT	1946823624
SNP_P4_59091_37919671	NC_021163.1	Ca_kabuli_chr04	37919671	CC	TT	1946823626
SNP_P4_59092_37920004	NC_021163.1	Ca_kabuli_chr04	37920004	CC	AA	1946823628
SNP_P4_59093_37930908	NC_021163.1	Ca_kabuli_chr04	37930908	TT	CC	1946823630
SNP_P4_59094_37930932	NC_021163.1	Ca_kabuli_chr04	37930932	GG	AA	1946823632
SNP_P4_59095_37930949	NC_021163.1	Ca_kabuli_chr04	37930949	TT	CC	1946823634
SNP_P4_59096_37930972	NC_021163.1	Ca_kabuli_chr04	37930972	AA	GG	1946823636

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_59098_37931139	NC_021163.1	Ca_kabuli_chr04	37931139	CC	TT	1946823640
SNP_P4_59099_37931141	NC_021163.1	Ca_kabuli_chr04	37931141	TT	CC	1946823642
SNP_P4_59100_37931143	NC_021163.1	Ca_kabuli_chr04	37931143	GG	TT	1946823644
SNP_P4_59101_37931165	NC_021163.1	Ca_kabuli_chr04	37931165	TT	CC	1946823646
SNP_P4_59102_37931216	NC_021163.1	Ca_kabuli_chr04	37931216	CC	TT	1946823648
SNP_P4_59103_37931219	NC_021163.1	Ca_kabuli_chr04	37931219	GG	AA	1946823650
SNP_P4_59104_37932385	NC_021163.1	Ca_kabuli_chr04	37932385	GG	AA	1946823652
SNP_P4_59105_37932950	NC_021163.1	Ca_kabuli_chr04	37932950	TT	AA	1946823654
SNP_P4_59106_37933355	NC_021163.1	Ca_kabuli_chr04	37933355	TT	CC	1946823656
SNP_P4_59107_37933662	NC_021163.1	Ca_kabuli_chr04	37933662	CC	TT	1946823658
SNP_P4_59108_37933716	NC_021163.1	Ca_kabuli_chr04	37933716	AA	GG	1946823660
SNP_P4_59109_37933733	NC_021163.1	Ca_kabuli_chr04	37933733	AA	TT	1946823662
SNP_P4_59110_37933781	NC_021163.1	Ca_kabuli_chr04	37933781	TT	AA	1946823664
SNP_P4_59111_37933833	NC_021163.1	Ca_kabuli_chr04	37933833	TT	CC	1946823666
SNP_P4_59112_37935651	NC_021163.1	Ca_kabuli_chr04	37935651	CC	GG	1946823668
SNP_P4_59113_37938078	NC_021163.1	Ca_kabuli_chr04	37938078	CC	GG	1946823670
SNP_P4_59114_37938081	NC_021163.1	Ca_kabuli_chr04	37938081	AA	TT	1946823672
SNP_P4_59115_37938095	NC_021163.1	Ca_kabuli_chr04	37938095	AA	GG	1946823674
SNP_P4_59116_37938336	NC_021163.1	Ca_kabuli_chr04	37938336	CC	TT	1946823676
SNP_P4_59117_37938350	NC_021163.1	Ca_kabuli_chr04	37938350	AA	GG	1946823678
SNP_P4_59119_37938640	NC_021163.1	Ca_kabuli_chr04	37938640	GG	AA	1946823680
SNP_P4_59120_37938678	NC_021163.1	Ca_kabuli_chr04	37938678	AA	TT	1946823682
SNP_P4_59121_37938702	NC_021163.1	Ca_kabuli_chr04	37938702	AA	GG	1946823684
SNP_P4_59122_37953343	NC_021163.1	Ca_kabuli_chr04	37953343	TT	CC	1946823686
SNP_P4_59123_37953837	NC_021163.1	Ca_kabuli_chr04	37953837	CC	TT	1946823688
SNP_P4_59124_37953839	NC_021163.1	Ca_kabuli_chr04	37953839	AA	GG	1946823691
SNP_P4_59125_37974422	NC_021163.1	Ca_kabuli_chr04	37974422	TT	CC	1946823693
SNP_P4_59126_37974779	NC_021163.1	Ca_kabuli_chr04	37974779	AA	GG	1946823695
SNP_P4_59127_37974800	NC_021163.1	Ca_kabuli_chr04	37974800	TT	CC	1946823697
SNP_P4_59128_37975462	NC_021163.1	Ca_kabuli_chr04	37975462	TT	CC	1946823699
SNP_P4_59129_37975600	NC_021163.1	Ca_kabuli_chr04	37975600	CC	TT	1946823701
SNP_P4_59130_37975786	NC_021163.1	Ca_kabuli_chr04	37975786	GG	AA	1946823703
SNP_P4_59131_37975949	NC_021163.1	Ca_kabuli_chr04	37975949	AA	CC	1946823705
SNP_P4_59132_37976042	NC_021163.1	Ca_kabuli_chr04	37976042	TT	CC	1946823707
SNP_P4_59133_37976233	NC_021163.1	Ca_kabuli_chr04	37976233	CC	TT	1946823709
SNP_P4_59134_37976247	NC_021163.1	Ca_kabuli_chr04	37976247	AA	GG	1946823711
SNP_P4_59135_37976598	NC_021163.1	Ca_kabuli_chr04	37976598	GG	AA	1946823713
SNP_P4_59136_37976962	NC_021163.1	Ca_kabuli_chr04	37976962	CC	TT	1946823715
SNP_P4_59137_37977073	NC_021163.1	Ca_kabuli_chr04	37977073	GG	AA	1946823717
SNP_P4_59138_37977286	NC_021163.1	Ca_kabuli_chr04	37977286	CC	GG	1946823719
SNP_P4_59140_37977780	NC_021163.1	Ca_kabuli_chr04	37977780	TT	AA	1946823721

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_59143_37980137	NC_021163.1	Ca_kabuli_chr04	37980137	CC	AA	1946823725
SNP_P4_59144_37980185	NC_021163.1	Ca_kabuli_chr04	37980185	TT	AA	1946823727
SNP_P4_59145_37980547	NC_021163.1	Ca_kabuli_chr04	37980547	CC	GG	1946823729
SNP_P4_59147_37983196	NC_021163.1	Ca_kabuli_chr04	37983196	AA	CC	1946823731
SNP_P4_59148_37983214	NC_021163.1	Ca_kabuli_chr04	37983214	CC	AA	1946823733
SNP_P4_59149_37984789	NC_021163.1	Ca_kabuli_chr04	37984789	TT	CC	1946823735
SNP_P4_59150_37984791	NC_021163.1	Ca_kabuli_chr04	37984791	TT	CC	1946823737
SNP_P4_59151_37985179	NC_021163.1	Ca_kabuli_chr04	37985179	AA	GG	1946823739
SNP_P4_59152_37986881	NC_021163.1	Ca_kabuli_chr04	37986881	AA	GG	1946823742
SNP_P4_59153_37986899	NC_021163.1	Ca_kabuli_chr04	37986899	CC	AA	1946823744
SNP_P4_59154_37986971	NC_021163.1	Ca_kabuli_chr04	37986971	TT	CC	1946823746
SNP_P4_59155_37989239	NC_021163.1	Ca_kabuli_chr04	37989239	CC	AA	1946823748
SNP_P4_59156_37989265	NC_021163.1	Ca_kabuli_chr04	37989265	TT	CC	1946823750
SNP_P4_59157_37989270	NC_021163.1	Ca_kabuli_chr04	37989270	CC	TT	1946823752
SNP_P4_59158_37989616	NC_021163.1	Ca_kabuli_chr04	37989616	CC	TT	1946823754
SNP_P4_59159_37989633	NC_021163.1	Ca_kabuli_chr04	37989633	CC	GG	1946823756
SNP_P4_59160_37989693	NC_021163.1	Ca_kabuli_chr04	37989693	CC	TT	1946823758
SNP_P4_59161_37989817	NC_021163.1	Ca_kabuli_chr04	37989817	AA	GG	1946823760
SNP_P4_59162_37989838	NC_021163.1	Ca_kabuli_chr04	37989838	AA	GG	1946823762
SNP_P4_59164_37990022	NC_021163.1	Ca_kabuli_chr04	37990022	AA	GG	1946823764
SNP_P4_59165_37990110	NC_021163.1	Ca_kabuli_chr04	37990110	GG	AA	1946823766
SNP_P4_59166_37990248	NC_021163.1	Ca_kabuli_chr04	37990248	TT	CC	1946823768
SNP_P4_59167_37991071	NC_021163.1	Ca_kabuli_chr04	37991071	CC	TT	1946823770
SNP_P4_59168_37991079	NC_021163.1	Ca_kabuli_chr04	37991079	GG	AA	1946823772
SNP_P4_59169_37991794	NC_021163.1	Ca_kabuli_chr04	37991794	GG	AA	1946823775
SNP_P4_59170_37991962	NC_021163.1	Ca_kabuli_chr04	37991962	AA	GG	1946823777
SNP_P4_59173_37994354	NC_021163.1	Ca_kabuli_chr04	37994354	CC	TT	1946823779
SNP_P4_59174_37994498	NC_021163.1	Ca_kabuli_chr04	37994498	GG	AA	1946823781
SNP_P4_59175_37994503	NC_021163.1	Ca_kabuli_chr04	37994503	TT	CC	1946823783
SNP_P4_59176_37994527	NC_021163.1	Ca_kabuli_chr04	37994527	CC	TT	1946823785
SNP_P4_59177_38001230	NC_021163.1	Ca_kabuli_chr04	38001230	GG	AA	1946823787
SNP_P4_59178_38001285	NC_021163.1	Ca_kabuli_chr04	38001285	CC	TT	1946823789
SNP_P4_59179_38003811	NC_021163.1	Ca_kabuli_chr04	38003811	GG	AA	1946823791
SNP_P4_59180_38003987	NC_021163.1	Ca_kabuli_chr04	38003987	AA	TT	1946823793
SNP_P4_59181_38004023	NC_021163.1	Ca_kabuli_chr04	38004023	CC	TT	1946823795
SNP_P4_59182_38004302	NC_021163.1	Ca_kabuli_chr04	38004302	TT	CC	1946823798
SNP_P4_59184_38004332	NC_021163.1	Ca_kabuli_chr04	38004332	CC	TT	1946823800
SNP_P4_59185_38004705	NC_021163.1	Ca_kabuli_chr04	38004705	CC	TT	1946823802
SNP_P4_59186_38004749	NC_021163.1	Ca_kabuli_chr04	38004749	TT	AA	1946823804
SNP_P4_59187_38005103	NC_021163.1	Ca_kabuli_chr04	38005103	AA	TT	1946823806
SNP_P4_59188_38005486	NC_021163.1	Ca_kabuli_chr04	38005486	CC	GG	1946823808

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_59190_38006582	NC_021163.1	Ca_kabuli_chr04	38006582	AA	GG	1946823812
SNP_P4_59191_38007416	NC_021163.1	Ca_kabuli_chr04	38007416	TT	CC	1946823814
SNP_P4_59192_38008205	NC_021163.1	Ca_kabuli_chr04	38008205	GG	AA	1946823816
SNP_P4_59193_38008227	NC_021163.1	Ca_kabuli_chr04	38008227	GG	TT	1946823818
SNP_P4_59194_38009451	NC_021163.1	Ca_kabuli_chr04	38009451	TT	CC	1946823820
SNP_P4_59195_38009845	NC_021163.1	Ca_kabuli_chr04	38009845	GG	TT	1946823822
SNP_P4_59196_38010070	NC_021163.1	Ca_kabuli_chr04	38010070	CC	TT	1946823824
SNP_P4_59197_38011067	NC_021163.1	Ca_kabuli_chr04	38011067	GG	AA	1946823826
SNP_P4_59198_38011602	NC_021163.1	Ca_kabuli_chr04	38011602	CC	GG	1946823828
SNP_P4_59199_38011693	NC_021163.1	Ca_kabuli_chr04	38011693	AA	GG	1946823830
SNP_P4_59200_38011702	NC_021163.1	Ca_kabuli_chr04	38011702	TT	CC	1946823832
SNP_P4_59202_38015202	NC_021163.1	Ca_kabuli_chr04	38015202	TT	CC	1946823834
SNP_P4_59203_38015213	NC_021163.1	Ca_kabuli_chr04	38015213	CC	AA	1946823836
SNP_P4_59205_38017491	NC_021163.1	Ca_kabuli_chr04	38017491	AA	TT	1946823838
SNP_P4_59206_38017727	NC_021163.1	Ca_kabuli_chr04	38017727	CC	TT	1946823840
SNP_P4_59207_38017737	NC_021163.1	Ca_kabuli_chr04	38017737	GG	AA	1946823842
SNP_P4_59208_38018629	NC_021163.1	Ca_kabuli_chr04	38018629	AA	CC	1946823844
SNP_P4_59209_38018670	NC_021163.1	Ca_kabuli_chr04	38018670	TT	CC	1946823846
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SNP_P4_59212_38018961	NC_021163.1	Ca_kabuli_chr04	38018961	GG	AA	1946823852
SNP_P4_59213_38018980	NC_021163.1	Ca_kabuli_chr04	38018980	AA	GG	1946823854
SNP_P4_59215_38019173	NC_021163.1	Ca_kabuli_chr04	38019173	AA	GG	1946823856
SNP_P4_59217_38021870	NC_021163.1	Ca_kabuli_chr04	38021870	AA	GG	1946823858
SNP_P4_59218_38021904	NC_021163.1	Ca_kabuli_chr04	38021904	CC	TT	1946823860
SNP_P4_59219_38021916	NC_021163.1	Ca_kabuli_chr04	38021916	AA	TT	1946823863
SNP_P4_59220_38024361	NC_021163.1	Ca_kabuli_chr04	38024361	AA	TT	1946823865
SNP_P4_59221_38024403	NC_021163.1	Ca_kabuli_chr04	38024403	TT	AA	1946823867
SNP_P4_59222_38024526	NC_021163.1	Ca_kabuli_chr04	38024526	AA	GG	1946823869
SNP_P4_59223_38024534	NC_021163.1	Ca_kabuli_chr04	38024534	TT	CC	1946823871
SNP_P4_59225_38026081	NC_021163.1	Ca_kabuli_chr04	38026081	TT	CC	1946823873
SNP_P4_59226_38026083	NC_021163.1	Ca_kabuli_chr04	38026083	AA	CC	1946823875
SNP_P4_59227_38026233	NC_021163.1	Ca_kabuli_chr04	38026233	TT	CC	1946823877
SNP_P4_59229_38026283	NC_021163.1	Ca_kabuli_chr04	38026283	GG	AA	1946823879
SNP_P4_59230_38026296	NC_021163.1	Ca_kabuli_chr04	38026296	TT	CC	1946823881
SNP_P4_59231_38026612	NC_021163.1	Ca_kabuli_chr04	38026612	TT	CC	1946823883
SNP_P4_59232_38026850	NC_021163.1	Ca_kabuli_chr04	38026850	AA	GG	1946823885
SNP_P4_59233_38027055	NC_021163.1	Ca_kabuli_chr04	38027055	GG	AA	1946823887
SNP_P4_59234_38029380	NC_021163.1	Ca_kabuli_chr04	38029380	AA	GG	1946823889
SNP_P4_59235_38030673	NC_021163.1	Ca_kabuli_chr04	38030673	TT	AA	1946823891
SNP_P4_59236_38033979	NC_021163.1	Ca_kabuli_chr04	38033979	TT	CC	1946823893

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_59238_38034061	NC_021163.1	Ca_kabuli_chr04	38034061	GG	AA	1946823897
SNP_P4_59239_38034325	NC_021163.1	Ca_kabuli_chr04	38034325	AA	CC	1946823899
SNP_P4_59240_38034339	NC_021163.1	Ca_kabuli_chr04	38034339	AA	TT	1946823901
SNP_P4_59241_38034362	NC_021163.1	Ca_kabuli_chr04	38034362	TT	CC	1946823903
SNP_P4_59242_38034577	NC_021163.1	Ca_kabuli_chr04	38034577	GG	CC	1946823905
SNP_P4_59243_38034579	NC_021163.1	Ca_kabuli_chr04	38034579	TT	CC	1946823907
SNP_P4_59244_38034785	NC_021163.1	Ca_kabuli_chr04	38034785	GG	AA	1946823909
SNP_P4_59245_38034793	NC_021163.1	Ca_kabuli_chr04	38034793	TT	AA	1946823911
SNP_P4_59246_38035359	NC_021163.1	Ca_kabuli_chr04	38035359	AA	GG	1946823913
SNP_P4_59247_38035361	NC_021163.1	Ca_kabuli_chr04	38035361	AA	GG	1946823915
SNP_P4_59248_38035414	NC_021163.1	Ca_kabuli_chr04	38035414	TT	CC	1946823917
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SNP_P4_59255_38040436	NC_021163.1	Ca_kabuli_chr04	38040436	GG	AA	1946823926
SNP_P4_59256_38040573	NC_021163.1	Ca_kabuli_chr04	38040573	TT	GG	1946823928
SNP_P4_59258_38045054	NC_021163.1	Ca_kabuli_chr04	38045054	CC	TT	1946823930
SNP_P4_59259_38045110	NC_021163.1	Ca_kabuli_chr04	38045110	AA	GG	1946823932
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SNP_P4_59261_38045397	NC_021163.1	Ca_kabuli_chr04	38045397	TT	CC	1946823936
SNP_P4_59262_38045398	NC_021163.1	Ca_kabuli_chr04	38045398	CC	TT	1946823938
SNP_P4_59263_38045412	NC_021163.1	Ca_kabuli_chr04	38045412	GG	AA	1946823940
SNP_P4_59264_38045438	NC_021163.1	Ca_kabuli_chr04	38045438	TT	CC	1946823942
SNP_P4_59265_38046004	NC_021163.1	Ca_kabuli_chr04	38046004	GG	TT	1946823944
SNP_P4_59266_38046305	NC_021163.1	Ca_kabuli_chr04	38046305	TT	AA	1946823946
SNP_P4_59267_38049466	NC_021163.1	Ca_kabuli_chr04	38049466	AA	TT	1946823948
SNP_P4_59268_38049533	NC_021163.1	Ca_kabuli_chr04	38049533	CC	TT	1946823950
SNP_P4_59269_38049556	NC_021163.1	Ca_kabuli_chr04	38049556	AA	GG	1946823952
SNP_P4_59270_38049587	NC_021163.1	Ca_kabuli_chr04	38049587	TT	CC	1946823955
SNP_P4_59273_38051404	NC_021163.1	Ca_kabuli_chr04	38051404	TT	AA	1946823957
SNP_P4_59274_38051408	NC_021163.1	Ca_kabuli_chr04	38051408	CC	AA	1946823959
SNP_P4_59275_38052094	NC_021163.1	Ca_kabuli_chr04	38052094	GG	AA	1946823961
SNP_P4_59276_38053611	NC_021163.1	Ca_kabuli_chr04	38053611	TT	CC	1946823963
SNP_P4_59277_38054383	NC_021163.1	Ca_kabuli_chr04	38054383	CC	TT	1946823965
SNP_P4_59278_38054404	NC_021163.1	Ca_kabuli_chr04	38054404	GG	CC	1946823967
SNP_P4_59279_38054412	NC_021163.1	Ca_kabuli_chr04	38054412	TT	CC	1946823970
SNP_P4_59280_38054416	NC_021163.1	Ca_kabuli_chr04	38054416	AA	GG	1946823972
SNP_P4_59281_38054417	NC_021163.1	Ca_kabuli_chr04	38054417	TT	CC	1946823974
SNP_P4_59283_38055158	NC_021163.1	Ca_kabuli_chr04	38055158	TT	CC	1946823976
SNP_P4_59284_38055885	NC_021163.1	Ca_kabuli_chr04	38055885	GG	AA	1946823978
SNP_P4_59285_38061422	NC_021163.1	Ca_kabuli_chr04	38061422	TT	CC	1946823980

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_59286_38062173	NC_021163.1	Ca_kabuli_chr04	38062173	CC	GG	1946823982
SNP_P4_59287_38062200	NC_021163.1	Ca_kabuli_chr04	38062200	CC	AA	1946823985
SNP_P4_59288_38063807	NC_021163.1	Ca_kabuli_chr04	38063807	AA	TT	1946823987
SNP_P4_59289_38063958	NC_021163.1	Ca_kabuli_chr04	38063958	TT	CC	1946823989
SNP_P4_59290_38073315	NC_021163.1	Ca_kabuli_chr04	38073315	TT	CC	1946823991
SNP_P4_59292_38074538	NC_021163.1	Ca_kabuli_chr04	38074538	TT	CC	1946823993
SNP_P4_59293_38074559	NC_021163.1	Ca_kabuli_chr04	38074559	TT	CC	1946823995
SNP_P4_59294_38074583	NC_021163.1	Ca_kabuli_chr04	38074583	CC	TT	1946823997
SNP_P4_59295_38074816	NC_021163.1	Ca_kabuli_chr04	38074816	GG	TT	1946823999
SNP_P4_59296_38074844	NC_021163.1	Ca_kabuli_chr04	38074844	AA	GG	1946824002
SNP_P4_59297_38074860	NC_021163.1	Ca_kabuli_chr04	38074860	CC	TT	1946824004
SNP_P4_59298_38074861	NC_021163.1	Ca_kabuli_chr04	38074861	GG	AA	1946824006
SNP_P4_59299_38074871	NC_021163.1	Ca_kabuli_chr04	38074871	CC	TT	1946824008
SNP_P4_59300_38075212	NC_021163.1	Ca_kabuli_chr04	38075212	AA	GG	1946824010
SNP_P4_59301_38075514	NC_021163.1	Ca_kabuli_chr04	38075514	TT	CC	1946824012
SNP_P4_59302_38077107	NC_021163.1	Ca_kabuli_chr04	38077107	CC	AA	1946824013
SNP_P4_59303_38079573	NC_021163.1	Ca_kabuli_chr04	38079573	TT	CC	1946824014
SNP_P4_59304_38079576	NC_021163.1	Ca_kabuli_chr04	38079576	CC	AA	1946824015
SNP_P4_59305_38084745	NC_021163.1	Ca_kabuli_chr04	38084745	CC	TT	1946824016
SNP_P4_59306_38084746	NC_021163.1	Ca_kabuli_chr04	38084746	GG	AA	1946824017
SNP_P4_59307_38084769	NC_021163.1	Ca_kabuli_chr04	38084769	TT	GG	1946824018
SNP_P4_59308_38084773	NC_021163.1	Ca_kabuli_chr04	38084773	AA	CC	1946824019
SNP_P4_59309_38084807	NC_021163.1	Ca_kabuli_chr04	38084807	AA	CC	1946824020
SNP_P4_59310_38084825	NC_021163.1	Ca_kabuli_chr04	38084825	AA	GG	1946824022
SNP_P4_59311_38085197	NC_021163.1	Ca_kabuli_chr04	38085197	TT	AA	1946824024
SNP_P4_59313_38085872	NC_021163.1	Ca_kabuli_chr04	38085872	GG	AA	1946824026
SNP_P4_59314_38092063	NC_021163.1	Ca_kabuli_chr04	38092063	GG	AA	1946824028
SNP_P4_59315_38099083	NC_021163.1	Ca_kabuli_chr04	38099083	AA	GG	1946824030
SNP_P4_59316_38099108	NC_021163.1	Ca_kabuli_chr04	38099108	CC	TT	1946824032
SNP_P4_59317_38099114	NC_021163.1	Ca_kabuli_chr04	38099114	AA	GG	1946824034
SNP_P4_59318_38099369	NC_021163.1	Ca_kabuli_chr04	38099369	AA	GG	1946824036
SNP_P4_59319_38102384	NC_021163.1	Ca_kabuli_chr04	38102384	GG	TT	1946824038
SNP_P4_59320_38104381	NC_021163.1	Ca_kabuli_chr04	38104381	AA	GG	1946824040
SNP_P4_59321_38104425	NC_021163.1	Ca_kabuli_chr04	38104425	CC	TT	1946824042
SNP_P4_59322_38104641	NC_021163.1	Ca_kabuli_chr04	38104641	CC	TT	1946824044
SNP_P4_59323_38104655	NC_021163.1	Ca_kabuli_chr04	38104655	CC	TT	1946824046
SNP_P4_59324_38104670	NC_021163.1	Ca_kabuli_chr04	38104670	TT	AA	1946824048
SNP_P4_59325_38104694	NC_021163.1	Ca_kabuli_chr04	38104694	CC	TT	1946824050
SNP_P4_59326_38104699	NC_021163.1	Ca_kabuli_chr04	38104699	GG	AA	1946824052
SNP_P4_59327_38105293	NC_021163.1	Ca_kabuli_chr04	38105293	CC	GG	1946824054
SNP_P4_59328_38105465	NC_021163.1	Ca_kabuli_chr04	38105465	TT	AA	1946824056
SNP_P4_59329_38106658	NC_021163.1	Ca_kabuli_chr04	38106658	AA	GG	1946824058

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_59331_38107767	NC_021163.1	Ca_kabuli_chr04	38107767	AA	TT	1946824062
SNP_P4_59332_38108033	NC_021163.1	Ca_kabuli_chr04	38108033	GG	AA	1946824064
SNP_P4_59333_38108042	NC_021163.1	Ca_kabuli_chr04	38108042	AA	CC	1946824066
SNP_P4_59334_38108107	NC_021163.1	Ca_kabuli_chr04	38108107	GG	TT	1946824068
SNP_P4_59337_38108644	NC_021163.1	Ca_kabuli_chr04	38108644	GG	TT	1946824070
SNP_P4_59338_38108853	NC_021163.1	Ca_kabuli_chr04	38108853	GG	TT	1946824072
SNP_P4_59339_38108877	NC_021163.1	Ca_kabuli_chr04	38108877	GG	CC	1946824074
SNP_P4_59340_38109144	NC_021163.1	Ca_kabuli_chr04	38109144	CC	TT	1946824076
SNP_P4_59341_38109308	NC_021163.1	Ca_kabuli_chr04	38109308	CC	TT	1946824078
SNP_P4_59342_38109813	NC_021163.1	Ca_kabuli_chr04	38109813	AA	TT	1946824080
SNP_P4_59343_38110072	NC_021163.1	Ca_kabuli_chr04	38110072	TT	CC	1946824082
SNP_P4_59344_38110201	NC_021163.1	Ca_kabuli_chr04	38110201	CC	TT	1946824084
SNP_P4_59345_38111612	NC_021163.1	Ca_kabuli_chr04	38111612	GG	TT	1946824086
SNP_P4_59346_38112468	NC_021163.1	Ca_kabuli_chr04	38112468	CC	TT	1946824088
SNP_P4_59347_38113328	NC_021163.1	Ca_kabuli_chr04	38113328	GG	AA	1946824090
SNP_P4_59348_38113369	NC_021163.1	Ca_kabuli_chr04	38113369	TT	CC	1946824092
SNP_P4_59349_38113375	NC_021163.1	Ca_kabuli_chr04	38113375	GG	AA	1946824094
SNP_P4_59350_38113622	NC_021163.1	Ca_kabuli_chr04	38113622	TT	GG	1946824096
SNP_P4_59351_38114333	NC_021163.1	Ca_kabuli_chr04	38114333	AA	GG	1946824098
SNP_P4_59352_38114734	NC_021163.1	Ca_kabuli_chr04	38114734	TT	CC	1946824100
SNP_P4_59353_38114787	NC_021163.1	Ca_kabuli_chr04	38114787	GG	AA	1946824102
SNP_P4_59354_38114793	NC_021163.1	Ca_kabuli_chr04	38114793	GG	AA	1946824104
SNP_P4_59355_38115586	NC_021163.1	Ca_kabuli_chr04	38115586	AA	GG	1946824106
SNP_P4_59356_38115592	NC_021163.1	Ca_kabuli_chr04	38115592	GG	AA	1946824108
SNP_P4_59357_38119128	NC_021163.1	Ca_kabuli_chr04	38119128	CC	TT	1946824110
SNP_P4_59358_38119129	NC_021163.1	Ca_kabuli_chr04	38119129	CC	TT	1946824113
SNP_P4_59359_38119141	NC_021163.1	Ca_kabuli_chr04	38119141	TT	CC	1946824115
SNP_P4_59360_38120945	NC_021163.1	Ca_kabuli_chr04	38120945	AA	TT	1946824117
SNP_P4_59361_38121305	NC_021163.1	Ca_kabuli_chr04	38121305	TT	CC	1946824119
SNP_P4_59362_38121508	NC_021163.1	Ca_kabuli_chr04	38121508	GG	AA	1946824121
SNP_P4_59363_38121708	NC_021163.1	Ca_kabuli_chr04	38121708	TT	CC	1946824123
SNP_P4_59364_38121777	NC_021163.1	Ca_kabuli_chr04	38121777	GG	AA	1946824125
SNP_P4_59365_38121784	NC_021163.1	Ca_kabuli_chr04	38121784	GG	TT	1946824127
SNP_P4_59366_38121827	NC_021163.1	Ca_kabuli_chr04	38121827	TT	CC	1946824129
SNP_P4_59367_38121852	NC_021163.1	Ca_kabuli_chr04	38121852	GG	AA	1946824131
SNP_P4_59369_38123774	NC_021163.1	Ca_kabuli_chr04	38123774	TT	CC	1946824133
SNP_P4_59371_38124895	NC_021163.1	Ca_kabuli_chr04	38124895	GG	AA	1946824135
SNP_P4_59372_38126047	NC_021163.1	Ca_kabuli_chr04	38126047	TT	AA	1946824137
SNP_P4_59373_38128427	NC_021163.1	Ca_kabuli_chr04	38128427	CC	GG	1946824139
SNP_P4_59374_38128750	NC_021163.1	Ca_kabuli_chr04	38128750	GG	TT	1946824141
SNP_P4_59375_38128755	NC_021163.1	Ca_kabuli_chr04	38128755	AA	TT	1946824143

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_59377_38128766	NC_021163.1	Ca_kabuli_chr04	38128766	TT	CC	1946824147
SNP_P4_59378_38128786	NC_021163.1	Ca_kabuli_chr04	38128786	TT	CC	1946824149
SNP_P4_59379_38128787	NC_021163.1	Ca_kabuli_chr04	38128787	TT	AA	1946824151
SNP_P4_59380_38129566	NC_021163.1	Ca_kabuli_chr04	38129566	CC	AA	1946824154
SNP_P4_59381_38129641	NC_021163.1	Ca_kabuli_chr04	38129641	GG	CC	1946824156
SNP_P4_59382_38129642	NC_021163.1	Ca_kabuli_chr04	38129642	TT	AA	1946824158
SNP_P4_59383_38132009	NC_021163.1	Ca_kabuli_chr04	38132009	GG	TT	1946824161
SNP_P4_59384_38132474	NC_021163.1	Ca_kabuli_chr04	38132474	GG	AA	1946824163
SNP_P4_59385_38132491	NC_021163.1	Ca_kabuli_chr04	38132491	TT	CC	1946824165
SNP_P4_59386_38133367	NC_021163.1	Ca_kabuli_chr04	38133367	CC	GG	1946824167
SNP_P4_59387_38133400	NC_021163.1	Ca_kabuli_chr04	38133400	GG	TT	1946824169
SNP_P4_59388_38133450	NC_021163.1	Ca_kabuli_chr04	38133450	CC	TT	1946824171
SNP_P4_59389_38133887	NC_021163.1	Ca_kabuli_chr04	38133887	TT	CC	1946824173
SNP_P4_59392_38138009	NC_021163.1	Ca_kabuli_chr04	38138009	GG	AA	1946824175
SNP_P4_59393_38139043	NC_021163.1	Ca_kabuli_chr04	38139043	CC	TT	1946824177
SNP_P4_59395_38139465	NC_021163.1	Ca_kabuli_chr04	38139465	TT	AA	1946824179
SNP_P4_59396_38139473	NC_021163.1	Ca_kabuli_chr04	38139473	AA	CC	1946824181
SNP_P4_59397_38141013	NC_021163.1	Ca_kabuli_chr04	38141013	TT	AA	1946824183
SNP_P4_59398_38141501	NC_021163.1	Ca_kabuli_chr04	38141501	TT	AA	1946824185
SNP_P4_59399_38150128	NC_021163.1	Ca_kabuli_chr04	38150128	GG	AA	1946824187
SNP_P4_59400_38150155	NC_021163.1	Ca_kabuli_chr04	38150155	CC	TT	1946824189
SNP_P4_59401_38150450	NC_021163.1	Ca_kabuli_chr04	38150450	AA	GG	1946824191
SNP_P4_59402_38151767	NC_021163.1	Ca_kabuli_chr04	38151767	GG	AA	1946824193
SNP_P4_59403_38151829	NC_021163.1	Ca_kabuli_chr04	38151829	CC	TT	1946824195
SNP_P4_59404_38152826	NC_021163.1	Ca_kabuli_chr04	38152826	AA	GG	1946824197
SNP_P4_59405_38154481	NC_021163.1	Ca_kabuli_chr04	38154481	GG	AA	1946824199
SNP_P4_59406_38154495	NC_021163.1	Ca_kabuli_chr04	38154495	GG	AA	1946824201
SNP_P4_59407_38156108	NC_021163.1	Ca_kabuli_chr04	38156108	AA	GG	1946824203
SNP_P4_59408_38157551	NC_021163.1	Ca_kabuli_chr04	38157551	AA	GG	1946824205
SNP_P4_59409_38157956	NC_021163.1	Ca_kabuli_chr04	38157956	TT	CC	1946824207
SNP_P4_59410_38159348	NC_021163.1	Ca_kabuli_chr04	38159348	CC	TT	1946824209
SNP_P4_59411_38160299	NC_021163.1	Ca_kabuli_chr04	38160299	TT	GG	1946824211
SNP_P4_59412_38160326	NC_021163.1	Ca_kabuli_chr04	38160326	AA	GG	1946824213
SNP_P4_59413_38160337	NC_021163.1	Ca_kabuli_chr04	38160337	TT	CC	1946824215
SNP_P4_59414_38160375	NC_021163.1	Ca_kabuli_chr04	38160375	GG	AA	1946824217
SNP_P4_59415_38160522	NC_021163.1	Ca_kabuli_chr04	38160522	GG	AA	1946824219
SNP_P4_59416_38162097	NC_021163.1	Ca_kabuli_chr04	38162097	TT	CC	1946824222
SNP_P4_59417_38162098	NC_021163.1	Ca_kabuli_chr04	38162098	TT	GG	1946824224
SNP_P4_59418_38162122	NC_021163.1	Ca_kabuli_chr04	38162122	CC	AA	1946824226
SNP_P4_59419_38162159	NC_021163.1	Ca_kabuli_chr04	38162159	AA	CC	1946824228
SNP_P4_59420_38162163	NC_021163.1	Ca_kabuli_chr04	38162163	CC	TT	1946824230

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_59422_38162718	NC_021163.1	Ca_kabuli_chr04	38162718	CC	TT	1946824234
SNP_P4_59423_38162745	NC_021163.1	Ca_kabuli_chr04	38162745	GG	AA	1946824236
SNP_P4_59424_38162797	NC_021163.1	Ca_kabuli_chr04	38162797	AA	GG	1946824238
SNP_P4_59425_38164318	NC_021163.1	Ca_kabuli_chr04	38164318	CC	GG	1946824240
SNP_P4_59426_38164380	NC_021163.1	Ca_kabuli_chr04	38164380	GG	TT	1946824242
SNP_P4_59427_38164387	NC_021163.1	Ca_kabuli_chr04	38164387	CC	TT	1946824244
SNP_P4_59428_38164545	NC_021163.1	Ca_kabuli_chr04	38164545	AA	GG	1946824246
SNP_P4_59429_38164548	NC_021163.1	Ca_kabuli_chr04	38164548	TT	CC	1946824248
SNP_P4_59430_38164565	NC_021163.1	Ca_kabuli_chr04	38164565	CC	AA	1946824250
SNP_P4_59431_38164575	NC_021163.1	Ca_kabuli_chr04	38164575	TT	CC	1946824252
SNP_P4_59432_38164761	NC_021163.1	Ca_kabuli_chr04	38164761	CC	TT	1946824254
SNP_P4_59433_38164840	NC_021163.1	Ca_kabuli_chr04	38164840	AA	GG	1946824256
SNP_P4_59434_38165555	NC_021163.1	Ca_kabuli_chr04	38165555	AA	GG	1946824258
SNP_P4_59435_38165584	NC_021163.1	Ca_kabuli_chr04	38165584	GG	AA	1946824260
SNP_P4_59436_38165587	NC_021163.1	Ca_kabuli_chr04	38165587	AA	GG	1946824262
SNP_P4_59437_38165774	NC_021163.1	Ca_kabuli_chr04	38165774	TT	CC	1946824264
SNP_P4_59438_38165836	NC_021163.1	Ca_kabuli_chr04	38165836	GG	TT	1946824266
SNP_P4_59439_38165851	NC_021163.1	Ca_kabuli_chr04	38165851	AA	GG	1946824268
SNP_P4_59440_38165907	NC_021163.1	Ca_kabuli_chr04	38165907	AA	GG	1946824270
SNP_P4_59441_38166472	NC_021163.1	Ca_kabuli_chr04	38166472	AA	GG	1946824272
SNP_P4_59442_38166485	NC_021163.1	Ca_kabuli_chr04	38166485	TT	GG	1946824274
SNP_P4_59443_38166487	NC_021163.1	Ca_kabuli_chr04	38166487	AA	TT	1946824276
SNP_P4_59444_38166490	NC_021163.1	Ca_kabuli_chr04	38166490	TT	CC	1946824278
SNP_P4_59445_38166494	NC_021163.1	Ca_kabuli_chr04	38166494	GG	TT	1946824280
SNP_P4_59446_38166500	NC_021163.1	Ca_kabuli_chr04	38166500	GG	AA	1946824282
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SNP_P4_59449_38167132	NC_021163.1	Ca_kabuli_chr04	38167132	TT	CC	1946824288
SNP_P4_59450_38167198	NC_021163.1	Ca_kabuli_chr04	38167198	CC	TT	1946824290
SNP_P4_59451_38167269	NC_021163.1	Ca_kabuli_chr04	38167269	TT	CC	1946824292
SNP_P4_59452_38167287	NC_021163.1	Ca_kabuli_chr04	38167287	GG	CC	1946824294
SNP_P4_59453_38169187	NC_021163.1	Ca_kabuli_chr04	38169187	AA	GG	1946824296
SNP_P4_59454_38169199	NC_021163.1	Ca_kabuli_chr04	38169199	GG	TT	1946824299
SNP_P4_59455_38169378	NC_021163.1	Ca_kabuli_chr04	38169378	AA	GG	1946824301
SNP_P4_59456_38169517	NC_021163.1	Ca_kabuli_chr04	38169517	AA	GG	1946824303
SNP_P4_59458_38169646	NC_021163.1	Ca_kabuli_chr04	38169646	TT	CC	1946824305
SNP_P4_59459_38169662	NC_021163.1	Ca_kabuli_chr04	38169662	TT	CC	1946824307
SNP_P4_59460_38169866	NC_021163.1	Ca_kabuli_chr04	38169866	GG	AA	1946824309
SNP_P4_59461_38169879	NC_021163.1	Ca_kabuli_chr04	38169879	TT	CC	1946824311
SNP_P4_59462_38173999	NC_021163.1	Ca_kabuli_chr04	38173999	TT	CC	1946824313
SNP_P4_59463_38174195	NC_021163.1	Ca_kabuli_chr04	38174195	AA	TT	1946824315

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_59465_38174260	NC_021163.1	Ca_kabuli_chr04	38174260	GG	TT	1946824319
SNP_P4_59466_38174275	NC_021163.1	Ca_kabuli_chr04	38174275	GG	AA	1946824321
SNP_P4_59467_38175002	NC_021163.1	Ca_kabuli_chr04	38175002	GG	AA	1946824323
SNP_P4_59469_38176052	NC_021163.1	Ca_kabuli_chr04	38176052	CC	TT	1946824325
SNP_P4_59470_38176055	NC_021163.1	Ca_kabuli_chr04	38176055	TT	GG	1946824327
SNP_P4_59471_38178368	NC_021163.1	Ca_kabuli_chr04	38178368	GG	AA	1946824329
SNP_P4_59472_38178433	NC_021163.1	Ca_kabuli_chr04	38178433	CC	AA	1946824331
SNP_P4_59473_38178447	NC_021163.1	Ca_kabuli_chr04	38178447	GG	AA	1946824333
SNP_P4_59474_38178455	NC_021163.1	Ca_kabuli_chr04	38178455	CC	TT	1946824335
SNP_P4_59475_38178729	NC_021163.1	Ca_kabuli_chr04	38178729	CC	TT	1946824337
SNP_P4_59476_38184628	NC_021163.1	Ca_kabuli_chr04	38184628	TT	CC	1946824339
SNP_P4_59477_38191986	NC_021163.1	Ca_kabuli_chr04	38191986	GG	TT	1946824341
SNP_P4_59478_38192135	NC_021163.1	Ca_kabuli_chr04	38192135	GG	AA	1946824343
SNP_P4_59479_38192161	NC_021163.1	Ca_kabuli_chr04	38192161	CC	AA	1946824345
SNP_P4_59480_38192170	NC_021163.1	Ca_kabuli_chr04	38192170	GG	AA	1946824347
SNP_P4_59481_38192184	NC_021163.1	Ca_kabuli_chr04	38192184	TT	CC	1946824349
SNP_P4_59482_38192306	NC_021163.1	Ca_kabuli_chr04	38192306	AA	GG	1946824351
SNP_P4_59483_38192313	NC_021163.1	Ca_kabuli_chr04	38192313	AA	TT	1946824353
SNP_P4_59484_38192339	NC_021163.1	Ca_kabuli_chr04	38192339	AA	GG	1946824355
SNP_P4_59485_38192345	NC_021163.1	Ca_kabuli_chr04	38192345	GG	AA	1946824357
SNP_P4_59486_38192367	NC_021163.1	Ca_kabuli_chr04	38192367	TT	CC	1946824359
SNP_P4_59487_38192573	NC_021163.1	Ca_kabuli_chr04	38192573	TT	GG	1946824361
SNP_P4_59488_38193070	NC_021163.1	Ca_kabuli_chr04	38193070	TT	CC	1946824363
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SNP_P4_59490_38193720	NC_021163.1	Ca_kabuli_chr04	38193720	AA	GG	1946824368
SNP_P4_59491_38195044	NC_021163.1	Ca_kabuli_chr04	38195044	CC	GG	1946824370
SNP_P4_59492_38196077	NC_021163.1	Ca_kabuli_chr04	38196077	GG	CC	1946824372
SNP_P4_59493_38196078	NC_021163.1	Ca_kabuli_chr04	38196078	AA	GG	1946824374
SNP_P4_59495_38197293	NC_021163.1	Ca_kabuli_chr04	38197293	AA	GG	1946824376
SNP_P4_59496_38197792	NC_021163.1	Ca_kabuli_chr04	38197792	TT	CC	1946824378
SNP_P4_59497_38197983	NC_021163.1	Ca_kabuli_chr04	38197983	AA	CC	1946824380
SNP_P4_59498_38198971	NC_021163.1	Ca_kabuli_chr04	38198971	AA	TT	1946824382
SNP_P4_59499_38200872	NC_021163.1	Ca_kabuli_chr04	38200872	TT	CC	1946824384
SNP_P4_59500_38200917	NC_021163.1	Ca_kabuli_chr04	38200917	GG	CC	1946824386
SNP_P4_59501_38204259	NC_021163.1	Ca_kabuli_chr04	38204259	CC	TT	1946824388
SNP_P4_59502_38204491	NC_021163.1	Ca_kabuli_chr04	38204491	TT	AA	1946824390
SNP_P4_59503_38204504	NC_021163.1	Ca_kabuli_chr04	38204504	GG	CC	1946824392
SNP_P4_59505_38207039	NC_021163.1	Ca_kabuli_chr04	38207039	GG	AA	1946824394
SNP_P4_59506_38207055	NC_021163.1	Ca_kabuli_chr04	38207055	AA	TT	1946824397
SNP_P4_59508_38211257	NC_021163.1	Ca_kabuli_chr04	38211257	AA	CC	1946824399
SNP_P4_59509_38211332	NC_021163.1	Ca_kabuli_chr04	38211332	GG	AA	1946824401

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_59511_38220765	NC_021163.1	Ca_kabuli_chr04	38220765	GG	TT	1946824405
SNP_P4_59512_38222263	NC_021163.1	Ca_kabuli_chr04	38222263	TT	CC	1946824407
SNP_P4_59513_38222944	NC_021163.1	Ca_kabuli_chr04	38222944	TT	AA	1946824409
SNP_P4_59514_38225558	NC_021163.1	Ca_kabuli_chr04	38225558	GG	AA	1946824411
SNP_P4_59515_38225572	NC_021163.1	Ca_kabuli_chr04	38225572	GG	AA	1946824413
SNP_P4_59516_38225585	NC_021163.1	Ca_kabuli_chr04	38225585	AA	GG	1946824415
SNP_P4_59517_38225599	NC_021163.1	Ca_kabuli_chr04	38225599	GG	AA	1946824417
SNP_P4_59519_38226029	NC_021163.1	Ca_kabuli_chr04	38226029	GG	AA	1946824419
SNP_P4_59520_38226207	NC_021163.1	Ca_kabuli_chr04	38226207	GG	CC	1946824421
SNP_P4_59521_38226487	NC_021163.1	Ca_kabuli_chr04	38226487	GG	AA	1946824423
SNP_P4_59522_38226563	NC_021163.1	Ca_kabuli_chr04	38226563	GG	TT	1946824425
SNP_P4_59523_38226569	NC_021163.1	Ca_kabuli_chr04	38226569	CC	AA	1946824427
SNP_P4_59524_38226583	NC_021163.1	Ca_kabuli_chr04	38226583	TT	CC	1946824429
SNP_P4_59526_38226862	NC_021163.1	Ca_kabuli_chr04	38226862	GG	AA	1946824431
SNP_P4_59527_38226903	NC_021163.1	Ca_kabuli_chr04	38226903	AA	TT	1946824433
SNP_P4_59528_38226958	NC_021163.1	Ca_kabuli_chr04	38226958	GG	AA	1946824435
SNP_P4_59529_38227004	NC_021163.1	Ca_kabuli_chr04	38227004	GG	AA	1946824437
SNP_P4_59530_38227387	NC_021163.1	Ca_kabuli_chr04	38227387	TT	CC	1946824439
SNP_P4_59531_38227401	NC_021163.1	Ca_kabuli_chr04	38227401	CC	TT	1946824441
SNP_P4_59532_38227449	NC_021163.1	Ca_kabuli_chr04	38227449	CC	AA	1946824443
SNP_P4_59533_38227639	NC_021163.1	Ca_kabuli_chr04	38227639	GG	AA	1946824445
SNP_P4_59534_38227645	NC_021163.1	Ca_kabuli_chr04	38227645	TT	GG	1946824447
SNP_P4_59535_38228224	NC_021163.1	Ca_kabuli_chr04	38228224	TT	CC	1946824449
SNP_P4_59536_38228429	NC_021163.1	Ca_kabuli_chr04	38228429	CC	TT	1946824452
SNP_P4_59537_38228465	NC_021163.1	Ca_kabuli_chr04	38228465	GG	AA	1946824454
SNP_P4_59538_38228534	NC_021163.1	Ca_kabuli_chr04	38228534	GG	TT	1946824456
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SNP_P4_59540_38228636	NC_021163.1	Ca_kabuli_chr04	38228636	AA	GG	1946824460
SNP_P4_59541_38228792	NC_021163.1	Ca_kabuli_chr04	38228792	AA	GG	1946824462
SNP_P4_59542_38228865	NC_021163.1	Ca_kabuli_chr04	38228865	AA	GG	1946824464
SNP_P4_59543_38229006	NC_021163.1	Ca_kabuli_chr04	38229006	CC	TT	1946824466
SNP_P4_59544_38229691	NC_021163.1	Ca_kabuli_chr04	38229691	TT	CC	1946824468
SNP_P4_59545_38232052	NC_021163.1	Ca_kabuli_chr04	38232052	AA	CC	1946824470
SNP_P4_59546_38232340	NC_021163.1	Ca_kabuli_chr04	38232340	GG	AA	1946824472
SNP_P4_59547_38232357	NC_021163.1	Ca_kabuli_chr04	38232357	GG	AA	1946824474
SNP_P4_59548_38232380	NC_021163.1	Ca_kabuli_chr04	38232380	GG	AA	1946824476
SNP_P4_59549_38233658	NC_021163.1	Ca_kabuli_chr04	38233658	GG	AA	1946824478
SNP_P4_59550_38233663	NC_021163.1	Ca_kabuli_chr04	38233663	GG	CC	1946824480
SNP_P4_59551_38237520	NC_021163.1	Ca_kabuli_chr04	38237520	CC	TT	1946824482
SNP_P4_59552_38237532	NC_021163.1	Ca_kabuli_chr04	38237532	GG	TT	1946824484
SNP_P4_59553_38237535	NC_021163.1	Ca_kabuli_chr04	38237535	TT	AA	1946824486

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_59555_38237706	NC_021163.1	Ca_kabuli_chr04	38237706	TT	GG	1946824490
SNP_P4_59557_38238764	NC_021163.1	Ca_kabuli_chr04	38238764	TT	AA	1946824492
SNP_P4_59558_38238863	NC_021163.1	Ca_kabuli_chr04	38238863	AA	GG	1946824494
SNP_P4_59559_38238891	NC_021163.1	Ca_kabuli_chr04	38238891	GG	AA	1946824496
SNP_P4_59560_38239079	NC_021163.1	Ca_kabuli_chr04	38239079	AA	GG	1946824498
SNP_P4_59561_38239315	NC_021163.1	Ca_kabuli_chr04	38239315	CC	TT	1946824500
SNP_P4_59562_38240368	NC_021163.1	Ca_kabuli_chr04	38240368	TT	CC	1946824502
SNP_P4_59563_38240538	NC_021163.1	Ca_kabuli_chr04	38240538	TT	AA	1946824504
SNP_P4_59564_38240542	NC_021163.1	Ca_kabuli_chr04	38240542	AA	CC	1946824507
SNP_P4_59565_38240613	NC_021163.1	Ca_kabuli_chr04	38240613	GG	TT	1946824509
SNP_P4_59566_38240791	NC_021163.1	Ca_kabuli_chr04	38240791	CC	TT	1946824511
SNP_P4_59568_38245695	NC_021163.1	Ca_kabuli_chr04	38245695	TT	CC	1946824513
SNP_P4_59569_38246391	NC_021163.1	Ca_kabuli_chr04	38246391	GG	TT	1946824515
SNP_P4_59570_38246931	NC_021163.1	Ca_kabuli_chr04	38246931	TT	AA	1946824517
SNP_P4_59571_38246977	NC_021163.1	Ca_kabuli_chr04	38246977	GG	TT	1946824519
SNP_P4_59572_38280256	NC_021163.1	Ca_kabuli_chr04	38280256	AA	CC	1946824521
SNP_P4_59573_38280271	NC_021163.1	Ca_kabuli_chr04	38280271	CC	TT	1946824523
SNP_P4_59574_38280281	NC_021163.1	Ca_kabuli_chr04	38280281	CC	TT	1946824525
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SNP_P4_59576_38280946	NC_021163.1	Ca_kabuli_chr04	38280946	GG	AA	1946824529
SNP_P4_59577_38280948	NC_021163.1	Ca_kabuli_chr04	38280948	CC	TT	1946824531
SNP_P4_59578_38280991	NC_021163.1	Ca_kabuli_chr04	38280991	GG	TT	1946824533
SNP_P4_59579_38281036	NC_021163.1	Ca_kabuli_chr04	38281036	GG	TT	1946824535
SNP_P4_59580_38281362	NC_021163.1	Ca_kabuli_chr04	38281362	AA	TT	1946824537
SNP_P4_59581_38281380	NC_021163.1	Ca_kabuli_chr04	38281380	AA	GG	1946824539
SNP_P4_59582_38284139	NC_021163.1	Ca_kabuli_chr04	38284139	GG	TT	1946824541
SNP_P4_59584_38284375	NC_021163.1	Ca_kabuli_chr04	38284375	AA	GG	1946824543
SNP_P4_59585_38284400	NC_021163.1	Ca_kabuli_chr04	38284400	GG	AA	1946824545
SNP_P4_59586_38284434	NC_021163.1	Ca_kabuli_chr04	38284434	AA	GG	1946824547
SNP_P4_59587_38284675	NC_021163.1	Ca_kabuli_chr04	38284675	AA	GG	1946824549
SNP_P4_59588_38285853	NC_021163.1	Ca_kabuli_chr04	38285853	TT	AA	1946824551
SNP_P4_59589_38286393	NC_021163.1	Ca_kabuli_chr04	38286393	AA	GG	1946824553
SNP_P4_59590_38287375	NC_021163.1	Ca_kabuli_chr04	38287375	CC	TT	1946824555
SNP_P4_59591_38287532	NC_021163.1	Ca_kabuli_chr04	38287532	GG	CC	1946824557
SNP_P4_59592_38287829	NC_021163.1	Ca_kabuli_chr04	38287829	TT	AA	1946824559
SNP_P4_59593_38287883	NC_021163.1	Ca_kabuli_chr04	38287883	CC	TT	1946824562
SNP_P4_59594_38287889	NC_021163.1	Ca_kabuli_chr04	38287889	TT	CC	1946824564
SNP_P4_59595_38288076	NC_021163.1	Ca_kabuli_chr04	38288076	GG	AA	1946824566
SNP_P4_59596_38288205	NC_021163.1	Ca_kabuli_chr04	38288205	GG	TT	1946824568
SNP_P4_59597_38288220	NC_021163.1	Ca_kabuli_chr04	38288220	AA	GG	1946824570
SNP_P4_59598_38288235	NC_021163.1	Ca_kabuli_chr04	38288235	AA	CC	1946824572

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_59600_38288300	NC_021163.1	Ca_kabuli_chr04	38288300	CC	AA	1946824576
SNP_P4_59601_38288357	NC_021163.1	Ca_kabuli_chr04	38288357	TT	CC	1946824578
SNP_P4_59602_38288376	NC_021163.1	Ca_kabuli_chr04	38288376	TT	AA	1946824580
SNP_P4_59603_38288823	NC_021163.1	Ca_kabuli_chr04	38288823	TT	GG	1946824582
SNP_P4_59604_38289566	NC_021163.1	Ca_kabuli_chr04	38289566	CC	TT	1946824584
SNP_P4_59605_38289585	NC_021163.1	Ca_kabuli_chr04	38289585	GG	AA	1946824586
SNP_P4_59606_38291168	NC_021163.1	Ca_kabuli_chr04	38291168	GG	AA	1946824589
SNP_P4_59607_38294067	NC_021163.1	Ca_kabuli_chr04	38294067	TT	CC	1946824591
SNP_P4_59608_38294082	NC_021163.1	Ca_kabuli_chr04	38294082	CC	AA	1946824593
SNP_P4_59609_38294326	NC_021163.1	Ca_kabuli_chr04	38294326	CC	TT	1946824595
SNP_P4_59610_38294364	NC_021163.1	Ca_kabuli_chr04	38294364	TT	GG	1946824597
SNP_P4_59611_38294395	NC_021163.1	Ca_kabuli_chr04	38294395	AA	GG	1946824599
SNP_P4_59612_38294397	NC_021163.1	Ca_kabuli_chr04	38294397	AA	CC	1946824602
SNP_P4_59613_38296299	NC_021163.1	Ca_kabuli_chr04	38296299	TT	GG	1946824604
SNP_P4_59614_38297079	NC_021163.1	Ca_kabuli_chr04	38297079	TT	AA	1946824606
SNP_P4_59615_38297086	NC_021163.1	Ca_kabuli_chr04	38297086	CC	TT	1946824608
SNP_P4_59617_38297146	NC_021163.1	Ca_kabuli_chr04	38297146	TT	CC	1946824610
SNP_P4_59618_38297155	NC_021163.1	Ca_kabuli_chr04	38297155	GG	AA	1946824612
SNP_P4_59619_38297418	NC_021163.1	Ca_kabuli_chr04	38297418	AA	GG	1946824614
SNP_P4_59620_38297474	NC_021163.1	Ca_kabuli_chr04	38297474	CC	GG	1946824616
SNP_P4_59621_38297631	NC_021163.1	Ca_kabuli_chr04	38297631	TT	GG	1946824618
SNP_P4_59623_38298595	NC_021163.1	Ca_kabuli_chr04	38298595	GG	TT	1946824620
SNP_P4_59624_38299697	NC_021163.1	Ca_kabuli_chr04	38299697	CC	TT	1946824622
SNP_P4_59625_38299731	NC_021163.1	Ca_kabuli_chr04	38299731	CC	TT	1946824624
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SNP_P4_59627_38303627	NC_021163.1	Ca_kabuli_chr04	38303627	TT	GG	1946824628
SNP_P4_59628_38303716	NC_021163.1	Ca_kabuli_chr04	38303716	AA	TT	1946824630
SNP_P4_59629_38303727	NC_021163.1	Ca_kabuli_chr04	38303727	AA	TT	1946824632
SNP_P4_59630_38303754	NC_021163.1	Ca_kabuli_chr04	38303754	AA	CC	1946824634
SNP_P4_59631_38303911	NC_021163.1	Ca_kabuli_chr04	38303911	GG	TT	1946824636
SNP_P4_59632_38303918	NC_021163.1	Ca_kabuli_chr04	38303918	GG	AA	1946824638
SNP_P4_59633_38304104	NC_021163.1	Ca_kabuli_chr04	38304104	CC	TT	1946824640
SNP_P4_59634_38304146	NC_021163.1	Ca_kabuli_chr04	38304146	AA	GG	1946824642
SNP_P4_59635_38305720	NC_021163.1	Ca_kabuli_chr04	38305720	GG	AA	1946824644
SNP_P4_59636_38306032	NC_021163.1	Ca_kabuli_chr04	38306032	CC	TT	1946824646
SNP_P4_59637_38306374	NC_021163.1	Ca_kabuli_chr04	38306374	TT	GG	1946824648
SNP_P4_59638_38306386	NC_021163.1	Ca_kabuli_chr04	38306386	TT	GG	1946824650
SNP_P4_59639_38309669	NC_021163.1	Ca_kabuli_chr04	38309669	TT	CC	1946824652
SNP_P4_59640_38311627	NC_021163.1	Ca_kabuli_chr04	38311627	GG	CC	1946824654
SNP_P4_59642_38311815	NC_021163.1	Ca_kabuli_chr04	38311815	GG	CC	1946824656
SNP_P4_59643_38312151	NC_021163.1	Ca_kabuli_chr04	38312151	TT	CC	1946824658

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_59645_38312497	NC_021163.1	Ca_kabuli_chr04	38312497	TT	CC	1946824662
SNP_P4_59646_38312503	NC_021163.1	Ca_kabuli_chr04	38312503	CC	TT	1946824664
SNP_P4_59647_38313821	NC_021163.1	Ca_kabuli_chr04	38313821	AA	GG	1946824666
SNP_P4_59648_38314872	NC_021163.1	Ca_kabuli_chr04	38314872	TT	CC	1946824668
SNP_P4_59649_38316064	NC_021163.1	Ca_kabuli_chr04	38316064	CC	GG	1946824670
SNP_P4_59650_38316065	NC_021163.1	Ca_kabuli_chr04	38316065	AA	GG	1946824672
SNP_P4_59652_38317296	NC_021163.1	Ca_kabuli_chr04	38317296	AA	GG	1946824674
SNP_P4_59653_38317325	NC_021163.1	Ca_kabuli_chr04	38317325	CC	TT	1946824676
SNP_P4_59654_38317358	NC_021163.1	Ca_kabuli_chr04	38317358	TT	AA	1946824678
SNP_P4_59655_38317434	NC_021163.1	Ca_kabuli_chr04	38317434	TT	CC	1946824680
SNP_P4_59656_38317508	NC_021163.1	Ca_kabuli_chr04	38317508	CC	TT	1946824682
SNP_P4_59658_38318594	NC_021163.1	Ca_kabuli_chr04	38318594	GG	AA	1946824684
SNP_P4_59659_38318734	NC_021163.1	Ca_kabuli_chr04	38318734	CC	AA	1946824686
SNP_P4_59660_38318924	NC_021163.1	Ca_kabuli_chr04	38318924	GG	TT	1946824688
SNP_P4_59661_38318931	NC_021163.1	Ca_kabuli_chr04	38318931	GG	AA	1946824690
SNP_P4_59662_38319139	NC_021163.1	Ca_kabuli_chr04	38319139	GG	AA	1946824692
SNP_P4_59663_38319208	NC_021163.1	Ca_kabuli_chr04	38319208	TT	CC	1946824694
SNP_P4_59664_38319279	NC_021163.1	Ca_kabuli_chr04	38319279	TT	AA	1946824696
SNP_P4_59665_38319697	NC_021163.1	Ca_kabuli_chr04	38319697	TT	AA	1946824698
SNP_P4_59666_38320463	NC_021163.1	Ca_kabuli_chr04	38320463	CC	TT	1946824700
SNP_P4_59667_38321161	NC_021163.1	Ca_kabuli_chr04	38321161	AA	GG	1946824702
SNP_P4_59668_38321359	NC_021163.1	Ca_kabuli_chr04	38321359	TT	AA	1946824704
SNP_P4_59669_38322709	NC_021163.1	Ca_kabuli_chr04	38322709	CC	TT	1946824706
SNP_P4_59670_38323037	NC_021163.1	Ca_kabuli_chr04	38323037	TT	GG	1946824708
SNP_P4_59671_38323056	NC_021163.1	Ca_kabuli_chr04	38323056	TT	CC	1946824710
SNP_P4_59672_38323139	NC_021163.1	Ca_kabuli_chr04	38323139	GG	AA	1946824712
SNP_P4_59673_38323164	NC_021163.1	Ca_kabuli_chr04	38323164	GG	TT	1946824714
SNP_P4_59674_38323321	NC_021163.1	Ca_kabuli_chr04	38323321	GG	TT	1946824716
SNP_P4_59675_38323345	NC_021163.1	Ca_kabuli_chr04	38323345	AA	TT	1946824718
SNP_P4_59676_38323426	NC_021163.1	Ca_kabuli_chr04	38323426	AA	CC	1946824721
SNP_P4_59677_38323433	NC_021163.1	Ca_kabuli_chr04	38323433	GG	CC	1946824723
SNP_P4_59678_38324752	NC_021163.1	Ca_kabuli_chr04	38324752	GG	CC	1946824725
SNP_P4_59679_38324758	NC_021163.1	Ca_kabuli_chr04	38324758	AA	GG	1946824727
SNP_P4_59680_38324764	NC_021163.1	Ca_kabuli_chr04	38324764	TT	AA	1946824729
SNP_P4_59681_38324802	NC_021163.1	Ca_kabuli_chr04	38324802	GG	AA	1946824731
SNP_P4_59682_38324805	NC_021163.1	Ca_kabuli_chr04	38324805	GG	CC	1946824733
SNP_P4_59683_38324814	NC_021163.1	Ca_kabuli_chr04	38324814	CC	TT	1946824735
SNP_P4_59684_38324906	NC_021163.1	Ca_kabuli_chr04	38324906	CC	TT	1946824737
SNP_P4_59685_38325575	NC_021163.1	Ca_kabuli_chr04	38325575	TT	CC	1946824739
SNP_P4_59686_38325742	NC_021163.1	Ca_kabuli_chr04	38325742	GG	AA	1946824741
SNP_P4_59687_38326123	NC_021163.1	Ca_kabuli_chr04	38326123	GG	AA	1946824743

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_59689_38335653	NC_021163.1	Ca_kabuli_chr04	38335653	TT	CC	1946824747
SNP_P4_59690_38335773	NC_021163.1	Ca_kabuli_chr04	38335773	AA	CC	1946824749
SNP_P4_59691_38335819	NC_021163.1	Ca_kabuli_chr04	38335819	GG	AA	1946824751
SNP_P4_59692_38336050	NC_021163.1	Ca_kabuli_chr04	38336050	GG	AA	1946824753
SNP_P4_59693_38336251	NC_021163.1	Ca_kabuli_chr04	38336251	TT	CC	1946824755
SNP_P4_59694_38336291	NC_021163.1	Ca_kabuli_chr04	38336291	CC	TT	1946824758
SNP_P4_59695_38336312	NC_021163.1	Ca_kabuli_chr04	38336312	TT	CC	1946824760
SNP_P4_59696_38338566	NC_021163.1	Ca_kabuli_chr04	38338566	AA	TT	1946824762
SNP_P4_59697_38339479	NC_021163.1	Ca_kabuli_chr04	38339479	GG	AA	1946824764
SNP_P4_59698_38341723	NC_021163.1	Ca_kabuli_chr04	38341723	TT	CC	1946824766
SNP_P4_59699_38343474	NC_021163.1	Ca_kabuli_chr04	38343474	AA	GG	1946824768
SNP_P4_59700_38343477	NC_021163.1	Ca_kabuli_chr04	38343477	CC	TT	1946824770
SNP_P4_59701_38343505	NC_021163.1	Ca_kabuli_chr04	38343505	GG	AA	1946824772
SNP_P4_59702_38344891	NC_021163.1	Ca_kabuli_chr04	38344891	GG	AA	1946824774
SNP_P4_59703_38346128	NC_021163.1	Ca_kabuli_chr04	38346128	TT	GG	1946824776
SNP_P4_59704_38346207	NC_021163.1	Ca_kabuli_chr04	38346207	CC	TT	1946824778
SNP_P4_59705_38348609	NC_021163.1	Ca_kabuli_chr04	38348609	CC	TT	1946824780
SNP_P4_59706_38348617	NC_021163.1	Ca_kabuli_chr04	38348617	CC	TT	1946824782
SNP_P4_59707_38348619	NC_021163.1	Ca_kabuli_chr04	38348619	AA	TT	1946824784
SNP_P4_59708_38348682	NC_021163.1	Ca_kabuli_chr04	38348682	TT	CC	1946824786
SNP_P4_59709_38348692	NC_021163.1	Ca_kabuli_chr04	38348692	GG	AA	1946824788
SNP_P4_59710_38348700	NC_021163.1	Ca_kabuli_chr04	38348700	TT	CC	1946824790
SNP_P4_59711_38348703	NC_021163.1	Ca_kabuli_chr04	38348703	CC	AA	1946824792
SNP_P4_59712_38348772	NC_021163.1	Ca_kabuli_chr04	38348772	TT	AA	1946824794
SNP_P4_59713_38348779	NC_021163.1	Ca_kabuli_chr04	38348779	AA	GG	1946824797
SNP_P4_59714_38348946	NC_021163.1	Ca_kabuli_chr04	38348946	CC	TT	1946824799
SNP_P4_59715_38348951	NC_021163.1	Ca_kabuli_chr04	38348951	GG	AA	1946824801
SNP_P4_59716_38349178	NC_021163.1	Ca_kabuli_chr04	38349178	CC	TT	1946824803
SNP_P4_59717_38349231	NC_021163.1	Ca_kabuli_chr04	38349231	GG	AA	1946824805
SNP_P4_59718_38349233	NC_021163.1	Ca_kabuli_chr04	38349233	GG	AA	1946824807
SNP_P4_59719_38349250	NC_021163.1	Ca_kabuli_chr04	38349250	CC	TT	1946824809
SNP_P4_59720_38349290	NC_021163.1	Ca_kabuli_chr04	38349290	TT	GG	1946824811
SNP_P4_59721_38349294	NC_021163.1	Ca_kabuli_chr04	38349294	AA	GG	1946824813
SNP_P4_59722_38349493	NC_021163.1	Ca_kabuli_chr04	38349493	AA	GG	1946824815
SNP_P4_59723_38349510	NC_021163.1	Ca_kabuli_chr04	38349510	AA	GG	1946824817
SNP_P4_59724_38349516	NC_021163.1	Ca_kabuli_chr04	38349516	AA	GG	1946824819
SNP_P4_59725_38349565	NC_021163.1	Ca_kabuli_chr04	38349565	TT	CC	1946824821
SNP_P4_59726_38349584	NC_021163.1	Ca_kabuli_chr04	38349584	AA	GG	1946824823
SNP_P4_59727_38349598	NC_021163.1	Ca_kabuli_chr04	38349598	TT	CC	1946824825
SNP_P4_59728_38349972	NC_021163.1	Ca_kabuli_chr04	38349972	AA	GG	1946824827
SNP_P4_59729_38350692	NC_021163.1	Ca_kabuli_chr04	38350692	GG	TT	1946824829

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_59731_38352794	NC_021163.1	Ca_kabuli_chr04	38352794	AA	TT	1946824833
SNP_P4_59732_38353632	NC_021163.1	Ca_kabuli_chr04	38353632	GG	AA	1946824835
SNP_P4_59733_38353653	NC_021163.1	Ca_kabuli_chr04	38353653	AA	GG	1946824837
SNP_P4_59734_38353656	NC_021163.1	Ca_kabuli_chr04	38353656	CC	TT	1946824839
SNP_P4_59735_38353888	NC_021163.1	Ca_kabuli_chr04	38353888	AA	TT	1946824841
SNP_P4_59736_38354267	NC_021163.1	Ca_kabuli_chr04	38354267	AA	GG	1946824843
SNP_P4_59737_38354328	NC_021163.1	Ca_kabuli_chr04	38354328	AA	GG	1946824845
SNP_P4_59739_38360723	NC_021163.1	Ca_kabuli_chr04	38360723	CC	GG	1946824847
SNP_P4_59740_38360838	NC_021163.1	Ca_kabuli_chr04	38360838	TT	CC	1946824849
SNP_P4_59741_38360936	NC_021163.1	Ca_kabuli_chr04	38360936	CC	AA	1946824851
SNP_P4_59742_38361736	NC_021163.1	Ca_kabuli_chr04	38361736	GG	AA	1946824853
SNP_P4_59744_38367581	NC_021163.1	Ca_kabuli_chr04	38367581	AA	CC	1946824855
SNP_P4_59745_38367582	NC_021163.1	Ca_kabuli_chr04	38367582	TT	GG	1946824857
SNP_P4_59746_38367953	NC_021163.1	Ca_kabuli_chr04	38367953	AA	GG	1946824859
SNP_P4_59747_38367967	NC_021163.1	Ca_kabuli_chr04	38367967	AA	GG	1946824861
SNP_P4_59748_38368265	NC_021163.1	Ca_kabuli_chr04	38368265	CC	TT	1946824863
SNP_P4_59749_38368626	NC_021163.1	Ca_kabuli_chr04	38368626	CC	AA	1946824865
SNP_P4_59751_38369330	NC_021163.1	Ca_kabuli_chr04	38369330	CC	TT	1946824867
SNP_P4_59752_38369336	NC_021163.1	Ca_kabuli_chr04	38369336	TT	CC	1946824869
SNP_P4_59753_38369617	NC_021163.1	Ca_kabuli_chr04	38369617	GG	AA	1946824871
SNP_P4_59754_38369647	NC_021163.1	Ca_kabuli_chr04	38369647	TT	CC	1946824873
SNP_P4_59755_38369889	NC_021163.1	Ca_kabuli_chr04	38369889	TT	CC	1946824875
SNP_P4_59756_38370506	NC_021163.1	Ca_kabuli_chr04	38370506	TT	CC	1946824877
SNP_P4_59757_38370941	NC_021163.1	Ca_kabuli_chr04	38370941	AA	GG	1946824879
SNP_P4_59758_38371060	NC_021163.1	Ca_kabuli_chr04	38371060	TT	CC	1946824881
SNP_P4_59759_38371144	NC_021163.1	Ca_kabuli_chr04	38371144	AA	CC	1946824883
SNP_P4_59760_38371146	NC_021163.1	Ca_kabuli_chr04	38371146	GG	AA	1946824885
SNP_P4_59761_38371328	NC_021163.1	Ca_kabuli_chr04	38371328	GG	TT	1946824887
SNP_P4_59762_38371367	NC_021163.1	Ca_kabuli_chr04	38371367	TT	CC	1946824889
SNP_P4_59763_38371370	NC_021163.1	Ca_kabuli_chr04	38371370	TT	AA	1946824891
SNP_P4_59764_38372471	NC_021163.1	Ca_kabuli_chr04	38372471	TT	CC	1946824893
SNP_P4_59765_38372945	NC_021163.1	Ca_kabuli_chr04	38372945	GG	AA	1946824895
SNP_P4_59766_38373975	NC_021163.1	Ca_kabuli_chr04	38373975	TT	CC	1946824897
SNP_P4_59767_38373998	NC_021163.1	Ca_kabuli_chr04	38373998	GG	AA	1946824900
SNP_P4_59768_38373999	NC_021163.1	Ca_kabuli_chr04	38373999	AA	TT	1946824902
SNP_P4_59770_38377006	NC_021163.1	Ca_kabuli_chr04	38377006	AA	TT	1946824904
SNP_P4_59771_38377075	NC_021163.1	Ca_kabuli_chr04	38377075	GG	AA	1946824906
SNP_P4_59773_38377707	NC_021163.1	Ca_kabuli_chr04	38377707	AA	TT	1946824908
SNP_P4_59775_38378315	NC_021163.1	Ca_kabuli_chr04	38378315	AA	GG	1946824910
SNP_P4_59776_38378499	NC_021163.1	Ca_kabuli_chr04	38378499	CC	TT	1946824912
SNP_P4_59777_38378688	NC_021163.1	Ca_kabuli_chr04	38378688	TT	AA	1946824914

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_59780_38380044	NC_021163.1	Ca_kabuli_chr04	38380044	GG	AA	1946824918
SNP_P4_59781_38381695	NC_021163.1	Ca_kabuli_chr04	38381695	AA	TT	1946824920
SNP_P4_59782_38381834	NC_021163.1	Ca_kabuli_chr04	38381834	TT	CC	1946824922
SNP_P4_59783_38382229	NC_021163.1	Ca_kabuli_chr04	38382229	CC	TT	1946824924
SNP_P4_59784_38382298	NC_021163.1	Ca_kabuli_chr04	38382298	TT	AA	1946824926
SNP_P4_59785_38384564	NC_021163.1	Ca_kabuli_chr04	38384564	CC	TT	1946824928
SNP_P4_59786_38388830	NC_021163.1	Ca_kabuli_chr04	38388830	TT	CC	1946824930
SNP_P4_59787_38388948	NC_021163.1	Ca_kabuli_chr04	38388948	AA	GG	1946824932
SNP_P4_59788_38398486	NC_021163.1	Ca_kabuli_chr04	38398486	TT	CC	1946824934
SNP_P4_59789_38402453	NC_021163.1	Ca_kabuli_chr04	38402453	TT	CC	1946824936
SNP_P4_59790_38407304	NC_021163.1	Ca_kabuli_chr04	38407304	TT	CC	1946824938
SNP_P4_59791_38412789	NC_021163.1	Ca_kabuli_chr04	38412789	CC	AA	1946824940
SNP_P4_59792_38412812	NC_021163.1	Ca_kabuli_chr04	38412812	CC	AA	1946824942
SNP_P4_59793_38412869	NC_021163.1	Ca_kabuli_chr04	38412869	GG	AA	1946824944
SNP_P4_59794_38412954	NC_021163.1	Ca_kabuli_chr04	38412954	AA	TT	1946824946
SNP_P4_59795_38413025	NC_021163.1	Ca_kabuli_chr04	38413025	GG	TT	1946824948
SNP_P4_59796_38413273	NC_021163.1	Ca_kabuli_chr04	38413273	CC	TT	1946824950
SNP_P4_59797_38413279	NC_021163.1	Ca_kabuli_chr04	38413279	AA	TT	1946824952
SNP_P4_59798_38413358	NC_021163.1	Ca_kabuli_chr04	38413358	CC	TT	1946824954
SNP_P4_59800_38414871	NC_021163.1	Ca_kabuli_chr04	38414871	TT	AA	1946824956
SNP_P4_59801_38414913	NC_021163.1	Ca_kabuli_chr04	38414913	GG	AA	1946824958
SNP_P4_59802_38415992	NC_021163.1	Ca_kabuli_chr04	38415992	GG	AA	1946824960
SNP_P4_59803_38417359	NC_021163.1	Ca_kabuli_chr04	38417359	CC	AA	1946824962
SNP_P4_59804_38417799	NC_021163.1	Ca_kabuli_chr04	38417799	GG	AA	1946824964
SNP_P4_59805_38417825	NC_021163.1	Ca_kabuli_chr04	38417825	AA	GG	1946824967
SNP_P4_59806_38417871	NC_021163.1	Ca_kabuli_chr04	38417871	GG	AA	1946824969
SNP_P4_59807_38418574	NC_021163.1	Ca_kabuli_chr04	38418574	CC	TT	1946824971
SNP_P4_59808_38418615	NC_021163.1	Ca_kabuli_chr04	38418615	CC	TT	1946824973
SNP_P4_59809_38418668	NC_021163.1	Ca_kabuli_chr04	38418668	TT	CC	1946824975
SNP_P4_59810_38418684	NC_021163.1	Ca_kabuli_chr04	38418684	AA	GG	1946824977
SNP_P4_59811_38418734	NC_021163.1	Ca_kabuli_chr04	38418734	TT	GG	1946824980
SNP_P4_59812_38422578	NC_021163.1	Ca_kabuli_chr04	38422578	TT	GG	1946824982
SNP_P4_59813_38425675	NC_021163.1	Ca_kabuli_chr04	38425675	AA	GG	1946824984
SNP_P4_59814_38427912	NC_021163.1	Ca_kabuli_chr04	38427912	CC	AA	1946824986
SNP_P4_59815_38429102	NC_021163.1	Ca_kabuli_chr04	38429102	GG	AA	1946824988
SNP_P4_59816_38433090	NC_021163.1	Ca_kabuli_chr04	38433090	CC	AA	1946824990
SNP_P4_59817_38434327	NC_021163.1	Ca_kabuli_chr04	38434327	GG	AA	1946824992
SNP_P4_59818_38435671	NC_021163.1	Ca_kabuli_chr04	38435671	GG	TT	1946824994
SNP_P4_59819_38436253	NC_021163.1	Ca_kabuli_chr04	38436253	CC	TT	1946824996
SNP_P4_59820_38436876	NC_021163.1	Ca_kabuli_chr04	38436876	GG	AA	1946824999
SNP_P4_59821_38436879	NC_021163.1	Ca_kabuli_chr04	38436879	CC	GG	1946825001

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_59823_38438220	NC_021163.1	Ca_kabuli_chr04	38438220	GG	AA	1946825005
SNP_P4_59824_38438222	NC_021163.1	Ca_kabuli_chr04	38438222	AA	CC	1946825007
SNP_P4_59825_38438248	NC_021163.1	Ca_kabuli_chr04	38438248	AA	GG	1946825010
SNP_P4_59826_38438867	NC_021163.1	Ca_kabuli_chr04	38438867	AA	GG	1946825012
SNP_P4_59827_38438870	NC_021163.1	Ca_kabuli_chr04	38438870	TT	GG	1946825014
SNP_P4_59828_38438874	NC_021163.1	Ca_kabuli_chr04	38438874	CC	TT	1946825016
SNP_P4_59829_38439997	NC_021163.1	Ca_kabuli_chr04	38439997	GG	AA	1946825018
SNP_P4_59830_38440264	NC_021163.1	Ca_kabuli_chr04	38440264	GG	AA	1946825020
SNP_P4_59831_38440270	NC_021163.1	Ca_kabuli_chr04	38440270	TT	CC	1946825022
SNP_P4_59832_38443133	NC_021163.1	Ca_kabuli_chr04	38443133	CC	TT	1946825025
SNP_P4_59833_38443135	NC_021163.1	Ca_kabuli_chr04	38443135	AA	GG	1946825027
SNP_P4_59834_38444129	NC_021163.1	Ca_kabuli_chr04	38444129	TT	CC	1946825029
SNP_P4_59835_38445242	NC_021163.1	Ca_kabuli_chr04	38445242	AA	GG	1946825031
SNP_P4_59836_38445245	NC_021163.1	Ca_kabuli_chr04	38445245	GG	AA	1946825033
SNP_P4_59837_38445632	NC_021163.1	Ca_kabuli_chr04	38445632	AA	GG	1946825035
SNP_P4_59838_38445766	NC_021163.1	Ca_kabuli_chr04	38445766	GG	AA	1946825037
SNP_P4_59839_38445795	NC_021163.1	Ca_kabuli_chr04	38445795	CC	TT	1946825039
SNP_P4_59840_38445942	NC_021163.1	Ca_kabuli_chr04	38445942	AA	TT	1946825041
SNP_P4_59842_38446357	NC_021163.1	Ca_kabuli_chr04	38446357	GG	CC	1946825043
SNP_P4_59844_38446722	NC_021163.1	Ca_kabuli_chr04	38446722	CC	TT	1946825045
SNP_P4_59845_38447052	NC_021163.1	Ca_kabuli_chr04	38447052	AA	GG	1946825047
SNP_P4_59846_38447082	NC_021163.1	Ca_kabuli_chr04	38447082	AA	GG	1946825049
SNP_P4_59847_38447121	NC_021163.1	Ca_kabuli_chr04	38447121	GG	TT	1946825051
SNP_P4_59848_38447128	NC_021163.1	Ca_kabuli_chr04	38447128	AA	GG	1946825053
SNP_P4_59849_38447130	NC_021163.1	Ca_kabuli_chr04	38447130	GG	AA	1946825055
SNP_P4_59850_38449821	NC_021163.1	Ca_kabuli_chr04	38449821	TT	CC	1946825057
SNP_P4_59851_38450228	NC_021163.1	Ca_kabuli_chr04	38450228	TT	CC	1946825060
SNP_P4_59852_38452319	NC_021163.1	Ca_kabuli_chr04	38452319	GG	AA	1946825062
SNP_P4_59853_38452370	NC_021163.1	Ca_kabuli_chr04	38452370	CC	TT	1946825064
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SNP_P4_59855_38452905	NC_021163.1	Ca_kabuli_chr04	38452905	CC	TT	1946825068
SNP_P4_59856_38453400	NC_021163.1	Ca_kabuli_chr04	38453400	TT	CC	1946825070
SNP_P4_59857_38453569	NC_021163.1	Ca_kabuli_chr04	38453569	TT	GG	1946825072
SNP_P4_59858_38453610	NC_021163.1	Ca_kabuli_chr04	38453610	GG	AA	1946825074
SNP_P4_59859_38454786	NC_021163.1	Ca_kabuli_chr04	38454786	CC	AA	1946825076
SNP_P4_59860_38456486	NC_021163.1	Ca_kabuli_chr04	38456486	GG	TT	1946825078
SNP_P4_59861_38456670	NC_021163.1	Ca_kabuli_chr04	38456670	GG	AA	1946825080
SNP_P4_59862_38456769	NC_021163.1	Ca_kabuli_chr04	38456769	TT	CC	1946825082
SNP_P4_59863_38456809	NC_021163.1	Ca_kabuli_chr04	38456809	AA	CC	1946825084
SNP_P4_59865_38458273	NC_021163.1	Ca_kabuli_chr04	38458273	GG	AA	1946825086
SNP_P4_59866_38458307	NC_021163.1	Ca_kabuli_chr04	38458307	CC	TT	1946825088

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_59868_38460127	NC_021163.1	Ca_kabuli_chr04	38460127	CC	TT	1946825092
SNP_P4_59869_38461703	NC_021163.1	Ca_kabuli_chr04	38461703	CC	TT	1946825094
SNP_P4_59870_38461990	NC_021163.1	Ca_kabuli_chr04	38461990	TT	CC	1946825096
SNP_P4_59871_38464343	NC_021163.1	Ca_kabuli_chr04	38464343	AA	CC	1946825098
SNP_P4_59872_38464597	NC_021163.1	Ca_kabuli_chr04	38464597	AA	GG	1946825100
SNP_P4_59873_38465322	NC_021163.1	Ca_kabuli_chr04	38465322	AA	GG	1946825102
SNP_P4_59874_38465355	NC_021163.1	Ca_kabuli_chr04	38465355	TT	CC	1946825104
SNP_P4_59875_38465720	NC_021163.1	Ca_kabuli_chr04	38465720	TT	GG	1946825106
SNP_P4_59876_38466497	NC_021163.1	Ca_kabuli_chr04	38466497	CC	TT	1946825108
SNP_P4_59877_38467849	NC_021163.1	Ca_kabuli_chr04	38467849	AA	GG	1946825110
SNP_P4_59878_38476948	NC_021163.1	Ca_kabuli_chr04	38476948	GG	AA	1946825112
SNP_P4_59879_38477846	NC_021163.1	Ca_kabuli_chr04	38477846	GG	AA	1946825114
SNP_P4_59880_38477868	NC_021163.1	Ca_kabuli_chr04	38477868	AA	GG	1946825116
SNP_P4_59881_38478095	NC_021163.1	Ca_kabuli_chr04	38478095	GG	AA	1946825118
SNP_P4_59882_38478443	NC_021163.1	Ca_kabuli_chr04	38478443	GG	AA	1946825121
SNP_P4_59883_38478457	NC_021163.1	Ca_kabuli_chr04	38478457	CC	TT	1946825123
SNP_P4_59884_38478923	NC_021163.1	Ca_kabuli_chr04	38478923	GG	CC	1946825125
SNP_P4_59885_38478925	NC_021163.1	Ca_kabuli_chr04	38478925	CC	TT	1946825127
SNP_P4_59886_38478928	NC_021163.1	Ca_kabuli_chr04	38478928	AA	GG	1946825129
SNP_P4_59887_38478939	NC_021163.1	Ca_kabuli_chr04	38478939	GG	AA	1946825131
SNP_P4_59890_38482663	NC_021163.1	Ca_kabuli_chr04	38482663	TT	CC	1946825133
SNP_P4_59891_38482665	NC_021163.1	Ca_kabuli_chr04	38482665	TT	CC	1946825135
SNP_P4_59892_38482686	NC_021163.1	Ca_kabuli_chr04	38482686	TT	CC	1946825137
SNP_P4_59895_38482994	NC_021163.1	Ca_kabuli_chr04	38482994	TT	CC	1946825139
SNP_P4_59896_38483164	NC_021163.1	Ca_kabuli_chr04	38483164	CC	TT	1946825141
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SNP_P4_59898_38483202	NC_021163.1	Ca_kabuli_chr04	38483202	TT	CC	1946825145
SNP_P4_59902_38484145	NC_021163.1	Ca_kabuli_chr04	38484145	GG	CC	1946825147
SNP_P4_59905_38485158	NC_021163.1	Ca_kabuli_chr04	38485158	CC	TT	1946825149
SNP_P4_59908_38485250	NC_021163.1	Ca_kabuli_chr04	38485250	TT	CC	1946825151
SNP_P4_59909_38485298	NC_021163.1	Ca_kabuli_chr04	38485298	TT	GG	1946825153
SNP_P4_59910_38485346	NC_021163.1	Ca_kabuli_chr04	38485346	GG	AA	1946825155
SNP_P4_59911_38488880	NC_021163.1	Ca_kabuli_chr04	38488880	TT	CC	1946825157
SNP_P4_59912_38489026	NC_021163.1	Ca_kabuli_chr04	38489026	CC	GG	1946825159
SNP_P4_59913_38489559	NC_021163.1	Ca_kabuli_chr04	38489559	CC	TT	1946825161
SNP_P4_59914_38490100	NC_021163.1	Ca_kabuli_chr04	38490100	AA	GG	1946825163
SNP_P4_59915_38491574	NC_021163.1	Ca_kabuli_chr04	38491574	TT	GG	1946825165
SNP_P4_59916_38491577	NC_021163.1	Ca_kabuli_chr04	38491577	GG	AA	1946825167
SNP_P4_59917_38491638	NC_021163.1	Ca_kabuli_chr04	38491638	CC	AA	1946825169
SNP_P4_59918_38491685	NC_021163.1	Ca_kabuli_chr04	38491685	CC	TT	1946825171
SNP_P4_59919_38491817	NC_021163.1	Ca_kabuli_chr04	38491817	AA	CC	1946825173

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_59921_38492639	NC_021163.1	Ca_kabuli_chr04	38492639	CC	TT	1946825177
SNP_P4_59922_38492706	NC_021163.1	Ca_kabuli_chr04	38492706	TT	CC	1946825179
SNP_P4_59923_38493381	NC_021163.1	Ca_kabuli_chr04	38493381	CC	TT	1946825181
SNP_P4_59924_38493397	NC_021163.1	Ca_kabuli_chr04	38493397	AA	TT	1946825183
SNP_P4_59925_38493761	NC_021163.1	Ca_kabuli_chr04	38493761	TT	CC	1946825185
SNP_P4_59926_38493798	NC_021163.1	Ca_kabuli_chr04	38493798	AA	GG	1946825187
SNP_P4_59927_38493812	NC_021163.1	Ca_kabuli_chr04	38493812	GG	AA	1946825189
SNP_P4_59928_38493838	NC_021163.1	Ca_kabuli_chr04	38493838	GG	CC	1946825191
SNP_P4_59929_38493871	NC_021163.1	Ca_kabuli_chr04	38493871	GG	TT	1946825193
SNP_P4_59930_38494917	NC_021163.1	Ca_kabuli_chr04	38494917	AA	GG	1946825195
SNP_P4_59931_38494927	NC_021163.1	Ca_kabuli_chr04	38494927	GG	AA	1946825197
SNP_P4_59932_38495451	NC_021163.1	Ca_kabuli_chr04	38495451	TT	CC	1946825199
SNP_P4_59933_38495452	NC_021163.1	Ca_kabuli_chr04	38495452	GG	AA	1946825201
SNP_P4_59934_38495666	NC_021163.1	Ca_kabuli_chr04	38495666	TT	CC	1946825204
SNP_P4_59935_38500147	NC_021163.1	Ca_kabuli_chr04	38500147	GG	AA	1946825206
SNP_P4_59936_38500469	NC_021163.1	Ca_kabuli_chr04	38500469	AA	CC	1946825208
SNP_P4_59937_38500514	NC_021163.1	Ca_kabuli_chr04	38500514	GG	CC	1946825210
SNP_P4_59938_38500820	NC_021163.1	Ca_kabuli_chr04	38500820	CC	TT	1946825212
SNP_P4_59939_38501002	NC_021163.1	Ca_kabuli_chr04	38501002	GG	AA	1946825214
SNP_P4_59940_38501765	NC_021163.1	Ca_kabuli_chr04	38501765	AA	GG	1946825216
SNP_P4_59941_38503430	NC_021163.1	Ca_kabuli_chr04	38503430	GG	TT	1946825218
SNP_P4_59942_38506691	NC_021163.1	Ca_kabuli_chr04	38506691	TT	GG	1946825220
SNP_P4_59943_38506711	NC_021163.1	Ca_kabuli_chr04	38506711	AA	CC	1946825222
SNP_P4_59944_38506732	NC_021163.1	Ca_kabuli_chr04	38506732	TT	CC	1946825224
SNP_P4_59945_38508396	NC_021163.1	Ca_kabuli_chr04	38508396	CC	TT	1946825226
SNP_P4_59948_38514831	NC_021163.1	Ca_kabuli_chr04	38514831	TT	CC	1946825228
SNP_P4_59949_38514836	NC_021163.1	Ca_kabuli_chr04	38514836	GG	AA	1946825230
SNP_P4_59950_38515061	NC_021163.1	Ca_kabuli_chr04	38515061	TT	AA	1946825232
SNP_P4_59951_38515080	NC_021163.1	Ca_kabuli_chr04	38515080	GG	AA	1946825234
SNP_P4_59953_38518954	NC_021163.1	Ca_kabuli_chr04	38518954	AA	CC	1946825236
SNP_P4_59954_38518981	NC_021163.1	Ca_kabuli_chr04	38518981	TT	AA	1946825238
SNP_P4_59955_38518995	NC_021163.1	Ca_kabuli_chr04	38518995	AA	GG	1946825240
SNP_P4_59956_38519243	NC_021163.1	Ca_kabuli_chr04	38519243	GG	AA	1946825242
SNP_P4_59957_38519378	NC_021163.1	Ca_kabuli_chr04	38519378	AA	GG	1946825244
SNP_P4_59958_38520897	NC_021163.1	Ca_kabuli_chr04	38520897	AA	TT	1946825246
SNP_P4_59959_38520935	NC_021163.1	Ca_kabuli_chr04	38520935	TT	GG	1946825248
SNP_P4_59960_38520941	NC_021163.1	Ca_kabuli_chr04	38520941	TT	CC	1946825250
SNP_P4_59961_38523148	NC_021163.1	Ca_kabuli_chr04	38523148	TT	AA	1946825252
SNP_P4_59962_38523302	NC_021163.1	Ca_kabuli_chr04	38523302	GG	AA	1946825254
SNP_P4_59963_38524710	NC_021163.1	Ca_kabuli_chr04	38524710	GG	AA	1946825256
SNP_P4_59964_38526506	NC_021163.1	Ca_kabuli_chr04	38526506	TT	CC	1946825258

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_59966_38527353	NC_021163.1	Ca_kabuli_chr04	38527353	CC	AA	1946825262
SNP_P4_59967_38527624	NC_021163.1	Ca_kabuli_chr04	38527624	CC	TT	1946825264
SNP_P4_59969_38527721	NC_021163.1	Ca_kabuli_chr04	38527721	TT	GG	1946825266
SNP_P4_59970_38529863	NC_021163.1	Ca_kabuli_chr04	38529863	TT	CC	1946825268
SNP_P4_59971_38531853	NC_021163.1	Ca_kabuli_chr04	38531853	CC	GG	1946825270
SNP_P4_59972_38532177	NC_021163.1	Ca_kabuli_chr04	38532177	GG	CC	1946825272
SNP_P4_59973_38533664	NC_021163.1	Ca_kabuli_chr04	38533664	CC	GG	1946825274
SNP_P4_59974_38534446	NC_021163.1	Ca_kabuli_chr04	38534446	AA	GG	1946825276
SNP_P4_59975_38535520	NC_021163.1	Ca_kabuli_chr04	38535520	CC	TT	1946825278
SNP_P4_59976_38536709	NC_021163.1	Ca_kabuli_chr04	38536709	TT	CC	1946825280
SNP_P4_59979_38537369	NC_021163.1	Ca_kabuli_chr04	38537369	TT	CC	1946825282
SNP_P4_59980_38537538	NC_021163.1	Ca_kabuli_chr04	38537538	TT	CC	1946825284
SNP_P4_59982_38537882	NC_021163.1	Ca_kabuli_chr04	38537882	GG	AA	1946825286
SNP_P4_59983_38538017	NC_021163.1	Ca_kabuli_chr04	38538017	TT	AA	1946825288
SNP_P4_59984_38538056	NC_021163.1	Ca_kabuli_chr04	38538056	AA	TT	1946825290
SNP_P4_59985_38545454	NC_021163.1	Ca_kabuli_chr04	38545454	GG	AA	1946825292
SNP_P4_59986_38545471	NC_021163.1	Ca_kabuli_chr04	38545471	GG	AA	1946825294
SNP_P4_59987_38545508	NC_021163.1	Ca_kabuli_chr04	38545508	GG	AA	1946825296
SNP_P4_59988_38545642	NC_021163.1	Ca_kabuli_chr04	38545642	TT	AA	1946825298
SNP_P4_59989_38547308	NC_021163.1	Ca_kabuli_chr04	38547308	TT	AA	1946825300
SNP_P4_59990_38547634	NC_021163.1	Ca_kabuli_chr04	38547634	AA	TT	1946825302
SNP_P4_59991_38547820	NC_021163.1	Ca_kabuli_chr04	38547820	AA	GG	1946825304
SNP_P4_59992_38547824	NC_021163.1	Ca_kabuli_chr04	38547824	GG	AA	1946825306
SNP_P4_59994_38549058	NC_021163.1	Ca_kabuli_chr04	38549058	TT	CC	1946825308
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SNP_P4_59997_38550983	NC_021163.1	Ca_kabuli_chr04	38550983	AA	TT	1946825314
SNP_P4_59998_38551370	NC_021163.1	Ca_kabuli_chr04	38551370	CC	TT	1946825316
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SNP_P4_60000_38551537	NC_021163.1	Ca_kabuli_chr04	38551537	TT	GG	1946825321
SNP_P4_60001_38552010	NC_021163.1	Ca_kabuli_chr04	38552010	AA	GG	1946825323
SNP_P4_60002_38552032	NC_021163.1	Ca_kabuli_chr04	38552032	GG	AA	1946825325
SNP_P4_60003_38552089	NC_021163.1	Ca_kabuli_chr04	38552089	AA	GG	1946825327
SNP_P4_60004_38552104	NC_021163.1	Ca_kabuli_chr04	38552104	AA	GG	1946825329
SNP_P4_60005_38552626	NC_021163.1	Ca_kabuli_chr04	38552626	GG	AA	1946825331
SNP_P4_60006_38552798	NC_021163.1	Ca_kabuli_chr04	38552798	GG	AA	1946825333
SNP_P4_60007_38552882	NC_021163.1	Ca_kabuli_chr04	38552882	GG	CC	1946825335
SNP_P4_60008_38553069	NC_021163.1	Ca_kabuli_chr04	38553069	AA	GG	1946825338
SNP_P4_60009_38553070	NC_021163.1	Ca_kabuli_chr04	38553070	AA	GG	1946825340
SNP_P4_60010_38553151	NC_021163.1	Ca_kabuli_chr04	38553151	GG	CC	1946825342
SNP_P4_60011_38553163	NC_021163.1	Ca_kabuli_chr04	38553163	TT	CC	1946825344

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_60013_38553902	NC_021163.1	Ca_kabuli_chr04	38553902	GG	TT	1946825348
SNP_P4_60014_38554361	NC_021163.1	Ca_kabuli_chr04	38554361	AA	GG	1946825350
SNP_P4_60015_38554471	NC_021163.1	Ca_kabuli_chr04	38554471	TT	CC	1946825352
SNP_P4_60016_38558913	NC_021163.1	Ca_kabuli_chr04	38558913	CC	TT	1946825354
SNP_P4_60017_38558945	NC_021163.1	Ca_kabuli_chr04	38558945	TT	CC	1946825356
SNP_P4_60018_38559017	NC_021163.1	Ca_kabuli_chr04	38559017	AA	CC	1946825358
SNP_P4_60019_38561714	NC_021163.1	Ca_kabuli_chr04	38561714	GG	AA	1946825360
SNP_P4_60020_38561746	NC_021163.1	Ca_kabuli_chr04	38561746	TT	CC	1946825362
SNP_P4_60021_38561757	NC_021163.1	Ca_kabuli_chr04	38561757	CC	TT	1946825364
SNP_P4_60022_38562266	NC_021163.1	Ca_kabuli_chr04	38562266	TT	CC	1946825367
SNP_P4_60023_38562284	NC_021163.1	Ca_kabuli_chr04	38562284	AA	CC	1946825369
SNP_P4_60024_38562494	NC_021163.1	Ca_kabuli_chr04	38562494	TT	CC	1946825371
SNP_P4_60025_38563421	NC_021163.1	Ca_kabuli_chr04	38563421	AA	TT	1946825373
SNP_P4_60026_38563834	NC_021163.1	Ca_kabuli_chr04	38563834	GG	AA	1946825375
SNP_P4_60027_38563923	NC_021163.1	Ca_kabuli_chr04	38563923	GG	AA	1946825377
SNP_P4_60028_38564132	NC_021163.1	Ca_kabuli_chr04	38564132	AA	GG	1946825379
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SNP_P4_60032_38564964	NC_021163.1	Ca_kabuli_chr04	38564964	AA	TT	1946825388
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SNP_P4_60034_38565250	NC_021163.1	Ca_kabuli_chr04	38565250	GG	AA	1946825392
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SNP_P4_60036_38567191	NC_021163.1	Ca_kabuli_chr04	38567191	GG	TT	1946825396
SNP_P4_60037_38567217	NC_021163.1	Ca_kabuli_chr04	38567217	AA	GG	1946825398
SNP_P4_60039_38567256	NC_021163.1	Ca_kabuli_chr04	38567256	CC	TT	1946825400
SNP_P4_60040_38567418	NC_021163.1	Ca_kabuli_chr04	38567418	GG	AA	1946825402
SNP_P4_60041_38567464	NC_021163.1	Ca_kabuli_chr04	38567464	AA	GG	1946825404
SNP_P4_60042_38567824	NC_021163.1	Ca_kabuli_chr04	38567824	TT	GG	1946825406
SNP_P4_60043_38568123	NC_021163.1	Ca_kabuli_chr04	38568123	AA	GG	1946825408
SNP_P4_60044_38568343	NC_021163.1	Ca_kabuli_chr04	38568343	AA	TT	1946825410
SNP_P4_60045_38568350	NC_021163.1	Ca_kabuli_chr04	38568350	AA	TT	1946825412
SNP_P4_60048_38569321	NC_021163.1	Ca_kabuli_chr04	38569321	TT	AA	1946825414
SNP_P4_60049_38569545	NC_021163.1	Ca_kabuli_chr04	38569545	TT	GG	1946825416
SNP_P4_60050_38570263	NC_021163.1	Ca_kabuli_chr04	38570263	AA	TT	1946825418
SNP_P4_60051_38570362	NC_021163.1	Ca_kabuli_chr04	38570362	CC	TT	1946825420
SNP_P4_60052_38571181	NC_021163.1	Ca_kabuli_chr04	38571181	GG	TT	1946825422
SNP_P4_60053_38572152	NC_021163.1	Ca_kabuli_chr04	38572152	TT	CC	1946825424
SNP_P4_60054_38572613	NC_021163.1	Ca_kabuli_chr04	38572613	CC	TT	1946825426
SNP_P4_60056_38574210	NC_021163.1	Ca_kabuli_chr04	38574210	TT	CC	1946825428
SNP_P4_60057_38574218	NC_021163.1	Ca_kabuli_chr04	38574218	CC	AA	1946825430

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_60058_38574256	NC_021163.1	Ca_kabuli_chr04	38574256	TT	CC	1946825432
SNP_P4_60059_38574507	NC_021163.1	Ca_kabuli_chr04	38574507	GG	AA	1946825434
SNP_P4_60060_38574514	NC_021163.1	Ca_kabuli_chr04	38574514	TT	CC	1946825436
SNP_P4_60061_38574547	NC_021163.1	Ca_kabuli_chr04	38574547	TT	CC	1946825438
SNP_P4_60062_38574911	NC_021163.1	Ca_kabuli_chr04	38574911	TT	CC	1946825440
SNP_P4_60063_38575252	NC_021163.1	Ca_kabuli_chr04	38575252	GG	TT	1946825442
SNP_P4_60064_38575635	NC_021163.1	Ca_kabuli_chr04	38575635	GG	AA	1946825444
SNP_P4_60065_38576259	NC_021163.1	Ca_kabuli_chr04	38576259	GG	TT	1946825447
SNP_P4_60066_38577551	NC_021163.1	Ca_kabuli_chr04	38577551	AA	GG	1946825449
SNP_P4_60067_38577553	NC_021163.1	Ca_kabuli_chr04	38577553	TT	GG	1946825451
SNP_P4_60068_38579631	NC_021163.1	Ca_kabuli_chr04	38579631	CC	AA	1946825453
SNP_P4_60069_38579676	NC_021163.1	Ca_kabuli_chr04	38579676	TT	AA	1946825455
SNP_P4_60070_38579677	NC_021163.1	Ca_kabuli_chr04	38579677	AA	TT	1946825457
SNP_P4_60071_38579778	NC_021163.1	Ca_kabuli_chr04	38579778	TT	AA	1946825459
SNP_P4_60072_38579808	NC_021163.1	Ca_kabuli_chr04	38579808	TT	CC	1946825461
SNP_P4_60073_38579888	NC_021163.1	Ca_kabuli_chr04	38579888	CC	GG	1946825463
SNP_P4_60074_38579912	NC_021163.1	Ca_kabuli_chr04	38579912	CC	TT	1946825465
SNP_P4_60075_38579913	NC_021163.1	Ca_kabuli_chr04	38579913	CC	AA	1946825467
SNP_P4_60076_38579925	NC_021163.1	Ca_kabuli_chr04	38579925	CC	TT	1946825469
SNP_P4_60077_38579928	NC_021163.1	Ca_kabuli_chr04	38579928	AA	GG	1946825471
SNP_P4_60078_38579935	NC_021163.1	Ca_kabuli_chr04	38579935	CC	AA	1946825473
SNP_P4_60079_38579978	NC_021163.1	Ca_kabuli_chr04	38579978	CC	AA	1946825475
SNP_P4_60080_38580148	NC_021163.1	Ca_kabuli_chr04	38580148	TT	CC	1946825477
SNP_P4_60081_38580962	NC_021163.1	Ca_kabuli_chr04	38580962	GG	CC	1946825479
SNP_P4_60082_38581016	NC_021163.1	Ca_kabuli_chr04	38581016	GG	CC	1946825481
SNP_P4_60083_38581034	NC_021163.1	Ca_kabuli_chr04	38581034	AA	GG	1946825483
SNP_P4_60084_38581071	NC_021163.1	Ca_kabuli_chr04	38581071	TT	GG	1946825485
SNP_P4_60085_38581333	NC_021163.1	Ca_kabuli_chr04	38581333	GG	AA	1946825487
SNP_P4_60086_38581543	NC_021163.1	Ca_kabuli_chr04	38581543	AA	GG	1946825489
SNP_P4_60087_38584722	NC_021163.1	Ca_kabuli_chr04	38584722	GG	AA	1946825491
SNP_P4_60088_38584975	NC_021163.1	Ca_kabuli_chr04	38584975	AA	GG	1946825493
SNP_P4_60091_38586531	NC_021163.1	Ca_kabuli_chr04	38586531	TT	GG	1946825495
SNP_P4_60092_38586546	NC_021163.1	Ca_kabuli_chr04	38586546	AA	CC	1946825497
SNP_P4_60093_38586806	NC_021163.1	Ca_kabuli_chr04	38586806	AA	TT	1946825499
SNP_P4_60094_38587071	NC_021163.1	Ca_kabuli_chr04	38587071	CC	AA	1946825501
SNP_P4_60095_38587090	NC_021163.1	Ca_kabuli_chr04	38587090	TT	GG	1946825503
SNP_P4_60096_38587152	NC_021163.1	Ca_kabuli_chr04	38587152	TT	CC	1946825505
SNP_P4_60097_38587202	NC_021163.1	Ca_kabuli_chr04	38587202	GG	AA	1946825507
SNP_P4_60098_38587388	NC_021163.1	Ca_kabuli_chr04	38587388	AA	GG	1946825509
SNP_P4_60099_38587393	NC_021163.1	Ca_kabuli_chr04	38587393	CC	TT	1946825511
SNP_P4_60100_38588227	NC_021163.1	Ca_kabuli_chr04	38588227	TT	CC	1946825513
SNP_P4_60101_38589541	NC_021163.1	Ca_kabuli_chr04	38589541	TT	CC	1946825515

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_60102_38592444	NC_021163.1	Ca_kabuli_chr04	38592444	CC	AA	1946825517
SNP_P4_60103_38592709	NC_021163.1	Ca_kabuli_chr04	38592709	CC	AA	1946825519
SNP_P4_60104_38594463	NC_021163.1	Ca_kabuli_chr04	38594463	GG	AA	1946825522
SNP_P4_60105_38594849	NC_021163.1	Ca_kabuli_chr04	38594849	AA	GG	1946825524
SNP_P4_60106_38594867	NC_021163.1	Ca_kabuli_chr04	38594867	AA	GG	1946825526
SNP_P4_60107_38594949	NC_021163.1	Ca_kabuli_chr04	38594949	TT	AA	1946825528
SNP_P4_60108_38595214	NC_021163.1	Ca_kabuli_chr04	38595214	AA	CC	1946825530
SNP_P4_60109_38595216	NC_021163.1	Ca_kabuli_chr04	38595216	CC	AA	1946825532
SNP_P4_60110_38596431	NC_021163.1	Ca_kabuli_chr04	38596431	TT	AA	1946825534
SNP_P4_60111_38602282	NC_021163.1	Ca_kabuli_chr04	38602282	GG	AA	1946825536
SNP_P4_60112_38602314	NC_021163.1	Ca_kabuli_chr04	38602314	TT	AA	1946825538
SNP_P4_60113_38602583	NC_021163.1	Ca_kabuli_chr04	38602583	AA	TT	1946825540
SNP_P4_60114_38602970	NC_021163.1	Ca_kabuli_chr04	38602970	GG	AA	1946825542
SNP_P4_60115_38602994	NC_021163.1	Ca_kabuli_chr04	38602994	GG	CC	1946825544
SNP_P4_60116_38603005	NC_021163.1	Ca_kabuli_chr04	38603005	GG	AA	1946825546
SNP_P4_60117_38603811	NC_021163.1	Ca_kabuli_chr04	38603811	GG	AA	1946825548
SNP_P4_60118_38603845	NC_021163.1	Ca_kabuli_chr04	38603845	AA	GG	1946825550
SNP_P4_60120_38604373	NC_021163.1	Ca_kabuli_chr04	38604373	AA	CC	1946825552
SNP_P4_60121_38604590	NC_021163.1	Ca_kabuli_chr04	38604590	CC	TT	1946825554
SNP_P4_60122_38608522	NC_021163.1	Ca_kabuli_chr04	38608522	TT	CC	1946825556
SNP_P4_60123_38608577	NC_021163.1	Ca_kabuli_chr04	38608577	AA	TT	1946825558
SNP_P4_60124_38608679	NC_021163.1	Ca_kabuli_chr04	38608679	AA	TT	1946825560
SNP_P4_60125_38608943	NC_021163.1	Ca_kabuli_chr04	38608943	CC	AA	1946825562
SNP_P4_60126_38609649	NC_021163.1	Ca_kabuli_chr04	38609649	TT	AA	1946825564
SNP_P4_60127_38609651	NC_021163.1	Ca_kabuli_chr04	38609651	AA	GG	1946825566
SNP_P4_60128_38609659	NC_021163.1	Ca_kabuli_chr04	38609659	GG	AA	1946825568
SNP_P4_60129_38611852	NC_021163.1	Ca_kabuli_chr04	38611852	TT	GG	1946825570
SNP_P4_60130_38612783	NC_021163.1	Ca_kabuli_chr04	38612783	AA	CC	1946825572
SNP_P4_60131_38612870	NC_021163.1	Ca_kabuli_chr04	38612870	CC	TT	1946825574
SNP_P4_60133_38613835	NC_021163.1	Ca_kabuli_chr04	38613835	GG	TT	1946825576
SNP_P4_60134_38613858	NC_021163.1	Ca_kabuli_chr04	38613858	GG	TT	1946825578
SNP_P4_60135_38615833	NC_021163.1	Ca_kabuli_chr04	38615833	CC	AA	1946825580
SNP_P4_60137_38617150	NC_021163.1	Ca_kabuli_chr04	38617150	TT	GG	1946825582
SNP_P4_60138_38618610	NC_021163.1	Ca_kabuli_chr04	38618610	AA	GG	1946825584
SNP_P4_60141_38619552	NC_021163.1	Ca_kabuli_chr04	38619552	AA	TT	1946825586
SNP_P4_60142_38620042	NC_021163.1	Ca_kabuli_chr04	38620042	CC	AA	1946825588
SNP_P4_60143_38620068	NC_021163.1	Ca_kabuli_chr04	38620068	TT	CC	1946825591
SNP_P4_60145_38620413	NC_021163.1	Ca_kabuli_chr04	38620413	AA	TT	1946825593
SNP_P4_60146_38620422	NC_021163.1	Ca_kabuli_chr04	38620422	GG	TT	1946825595
SNP_P4_60147_38620435	NC_021163.1	Ca_kabuli_chr04	38620435	CC	AA	1946825597
SNP_P4_60149_38620845	NC_021163.1	Ca_kabuli_chr04	38620845	TT	CC	1946825599
SNP_P4_60150_38622161	NC_021163.1	Ca_kabuli_chr04	38622161	TT	GG	1946825601

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_60151_38624501	NC_021163.1	Ca_kabuli_chr04	38624501	CC	TT	1946825603
SNP_P4_60152_38624705	NC_021163.1	Ca_kabuli_chr04	38624705	GG	AA	1946825605
SNP_P4_60153_38625691	NC_021163.1	Ca_kabuli_chr04	38625691	TT	CC	1946825607
SNP_P4_60154_38625868	NC_021163.1	Ca_kabuli_chr04	38625868	CC	TT	1946825609
SNP_P4_60155_38626038	NC_021163.1	Ca_kabuli_chr04	38626038	TT	AA	1946825611
SNP_P4_60157_38627708	NC_021163.1	Ca_kabuli_chr04	38627708	GG	AA	1946825613
SNP_P4_60158_38628066	NC_021163.1	Ca_kabuli_chr04	38628066	GG	AA	1946825615
SNP_P4_60159_38628069	NC_021163.1	Ca_kabuli_chr04	38628069	AA	GG	1946825617
SNP_P4_60160_38628731	NC_021163.1	Ca_kabuli_chr04	38628731	AA	GG	1946825619
SNP_P4_60161_38639094	NC_021163.1	Ca_kabuli_chr04	38639094	TT	CC	1946825621
SNP_P4_60162_38639549	NC_021163.1	Ca_kabuli_chr04	38639549	TT	CC	1946825623
SNP_P4_60163_38643959	NC_021163.1	Ca_kabuli_chr04	38643959	CC	AA	1946825625
SNP_P4_60164_38644142	NC_021163.1	Ca_kabuli_chr04	38644142	CC	TT	1946825627
SNP_P4_60165_38644333	NC_021163.1	Ca_kabuli_chr04	38644333	AA	TT	1946825629
SNP_P4_60166_38644339	NC_021163.1	Ca_kabuli_chr04	38644339	TT	CC	1946825631
SNP_P4_60168_38645732	NC_021163.1	Ca_kabuli_chr04	38645732	CC	TT	1946825633
SNP_P4_60169_38647103	NC_021163.1	Ca_kabuli_chr04	38647103	AA	GG	1946825635
SNP_P4_60170_38647108	NC_021163.1	Ca_kabuli_chr04	38647108	AA	GG	1946825637
SNP_P4_60171_38647137	NC_021163.1	Ca_kabuli_chr04	38647137	AA	TT	1946825639
SNP_P4_60172_38647149	NC_021163.1	Ca_kabuli_chr04	38647149	AA	GG	1946825641
SNP_P4_60173_38647914	NC_021163.1	Ca_kabuli_chr04	38647914	GG	AA	1946825643
SNP_P4_60174_38647915	NC_021163.1	Ca_kabuli_chr04	38647915	GG	AA	1946825645
SNP_P4_60175_38647926	NC_021163.1	Ca_kabuli_chr04	38647926	GG	AA	1946825647
SNP_P4_60176_38648249	NC_021163.1	Ca_kabuli_chr04	38648249	CC	AA	1946825649
SNP_P4_60179_38649421	NC_021163.1	Ca_kabuli_chr04	38649421	AA	CC	1946825651
SNP_P4_60180_38649484	NC_021163.1	Ca_kabuli_chr04	38649484	TT	CC	1946825653
SNP_P4_60181_38649639	NC_021163.1	Ca_kabuli_chr04	38649639	TT	AA	1946825655
SNP_P4_60182_38649648	NC_021163.1	Ca_kabuli_chr04	38649648	TT	GG	1946825657
SNP_P4_60183_38651914	NC_021163.1	Ca_kabuli_chr04	38651914	TT	GG	1946825660
SNP_P4_60184_38652011	NC_021163.1	Ca_kabuli_chr04	38652011	CC	TT	1946825662
SNP_P4_60186_38657103	NC_021163.1	Ca_kabuli_chr04	38657103	GG	AA	1946825664
SNP_P4_60187_38657294	NC_021163.1	Ca_kabuli_chr04	38657294	CC	TT	1946825666
SNP_P4_60188_38660739	NC_021163.1	Ca_kabuli_chr04	38660739	TT	GG	1946825668
SNP_P4_60189_38660773	NC_021163.1	Ca_kabuli_chr04	38660773	AA	TT	1946825670
SNP_P4_60190_38660928	NC_021163.1	Ca_kabuli_chr04	38660928	AA	TT	1946825672
SNP_P4_60191_38662122	NC_021163.1	Ca_kabuli_chr04	38662122	CC	TT	1946825674
SNP_P4_60192_38662464	NC_021163.1	Ca_kabuli_chr04	38662464	GG	AA	1946825676
SNP_P4_60193_38662544	NC_021163.1	Ca_kabuli_chr04	38662544	AA	GG	1946825678
SNP_P4_60194_38662546	NC_021163.1	Ca_kabuli_chr04	38662546	TT	CC	1946825680
SNP_P4_60195_38664255	NC_021163.1	Ca_kabuli_chr04	38664255	AA	GG	1946825682
SNP_P4_60197_38667442	NC_021163.1	Ca_kabuli_chr04	38667442	AA	GG	1946825684
SNP_P4_60198_38667469	NC_021163.1	Ca_kabuli_chr04	38667469	TT	AA	1946825686

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_60200_38668275	NC_021163.1	Ca_kabuli_chr04	38668275	AA	CC	1946825690
SNP_P4_60202_38669498	NC_021163.1	Ca_kabuli_chr04	38669498	CC	GG	1946825692
SNP_P4_60203_38670294	NC_021163.1	Ca_kabuli_chr04	38670294	AA	TT	1946825694
SNP_P4_60204_38670299	NC_021163.1	Ca_kabuli_chr04	38670299	CC	AA	1946825696
SNP_P4_60205_38670310	NC_021163.1	Ca_kabuli_chr04	38670310	AA	CC	1946825698
SNP_P4_60206_38670993	NC_021163.1	Ca_kabuli_chr04	38670993	GG	CC	1946825700
SNP_P4_60207_38671364	NC_021163.1	Ca_kabuli_chr04	38671364	TT	CC	1946825702
SNP_P4_60208_38671372	NC_021163.1	Ca_kabuli_chr04	38671372	CC	GG	1946825704
SNP_P4_60209_38671580	NC_021163.1	Ca_kabuli_chr04	38671580	AA	GG	1946825706
SNP_P4_60210_38674152	NC_021163.1	Ca_kabuli_chr04	38674152	CC	TT	1946825708
SNP_P4_60211_38674185	NC_021163.1	Ca_kabuli_chr04	38674185	TT	GG	1946825710
SNP_P4_60212_38674213	NC_021163.1	Ca_kabuli_chr04	38674213	CC	TT	1946825713
SNP_P4_60213_38674527	NC_021163.1	Ca_kabuli_chr04	38674527	TT	CC	1946825715
SNP_P4_60214_38674822	NC_021163.1	Ca_kabuli_chr04	38674822	TT	CC	1946825717
SNP_P4_60215_38675725	NC_021163.1	Ca_kabuli_chr04	38675725	TT	GG	1946825719
SNP_P4_60216_38676098	NC_021163.1	Ca_kabuli_chr04	38676098	TT	CC	1946825721
SNP_P4_60217_38676106	NC_021163.1	Ca_kabuli_chr04	38676106	TT	AA	1946825723
SNP_P4_60218_38676114	NC_021163.1	Ca_kabuli_chr04	38676114	AA	TT	1946825725
SNP_P4_60219_38676349	NC_021163.1	Ca_kabuli_chr04	38676349	CC	TT	1946825727
SNP_P4_60220_38677102	NC_021163.1	Ca_kabuli_chr04	38677102	TT	CC	1946825729
SNP_P4_60222_38680483	NC_021163.1	Ca_kabuli_chr04	38680483	GG	AA	1946825731
SNP_P4_60223_38680546	NC_021163.1	Ca_kabuli_chr04	38680546	AA	TT	1946825733
SNP_P4_60224_38682048	NC_021163.1	Ca_kabuli_chr04	38682048	AA	CC	1946825735
SNP_P4_60225_38682505	NC_021163.1	Ca_kabuli_chr04	38682505	AA	CC	1946825737
SNP_P4_60226_38682546	NC_021163.1	Ca_kabuli_chr04	38682546	CC	TT	1946825739
SNP_P4_60228_38683156	NC_021163.1	Ca_kabuli_chr04	38683156	AA	GG	1946825741
SNP_P4_60229_38683881	NC_021163.1	Ca_kabuli_chr04	38683881	TT	AA	1946825743
SNP_P4_60230_38686376	NC_021163.1	Ca_kabuli_chr04	38686376	AA	GG	1946825745
SNP_P4_60231_38686393	NC_021163.1	Ca_kabuli_chr04	38686393	GG	AA	1946825748
SNP_P4_60233_38686982	NC_021163.1	Ca_kabuli_chr04	38686982	GG	AA	1946825750
SNP_P4_60234_38687197	NC_021163.1	Ca_kabuli_chr04	38687197	GG	AA	1946825752
SNP_P4_60235_38687402	NC_021163.1	Ca_kabuli_chr04	38687402	TT	GG	1946825754
SNP_P4_60236_38687934	NC_021163.1	Ca_kabuli_chr04	38687934	TT	GG	1946825756
SNP_P4_60237_38688027	NC_021163.1	Ca_kabuli_chr04	38688027	AA	GG	1946825758
SNP_P4_60238_38688240	NC_021163.1	Ca_kabuli_chr04	38688240	TT	CC	1946825760
SNP_P4_60239_38688855	NC_021163.1	Ca_kabuli_chr04	38688855	CC	AA	1946825762
SNP_P4_60240_38690558	NC_021163.1	Ca_kabuli_chr04	38690558	AA	TT	1946825764
SNP_P4_60241_38691127	NC_021163.1	Ca_kabuli_chr04	38691127	GG	AA	1946825766
SNP_P4_60242_38691154	NC_021163.1	Ca_kabuli_chr04	38691154	GG	AA	1946825768
SNP_P4_60243_38691188	NC_021163.1	Ca_kabuli_chr04	38691188	AA	GG	1946825770
SNP_P4_60245_38691618	NC_021163.1	Ca_kabuli_chr04	38691618	TT	AA	1946825772

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_60246_38692352	NC_021163.1	Ca_kabuli_chr04	38692352	TT	AA	1946825774
SNP_P4_60247_38692359	NC_021163.1	Ca_kabuli_chr04	38692359	TT	AA	1946825776
SNP_P4_60248_38693096	NC_021163.1	Ca_kabuli_chr04	38693096	GG	CC	1946825778
SNP_P4_60249_38693186	NC_021163.1	Ca_kabuli_chr04	38693186	AA	GG	1946825780
SNP_P4_60250_38693691	NC_021163.1	Ca_kabuli_chr04	38693691	TT	AA	1946825782
SNP_P4_60251_38693723	NC_021163.1	Ca_kabuli_chr04	38693723	CC	TT	1946825784
SNP_P4_60252_38694007	NC_021163.1	Ca_kabuli_chr04	38694007	TT	CC	1946825786
SNP_P4_60253_38694075	NC_021163.1	Ca_kabuli_chr04	38694075	AA	TT	1946825788
SNP_P4_60254_38695281	NC_021163.1	Ca_kabuli_chr04	38695281	GG	AA	1946825790
SNP_P4_60255_38695292	NC_021163.1	Ca_kabuli_chr04	38695292	CC	AA	1946825792
SNP_P4_60256_38695520	NC_021163.1	Ca_kabuli_chr04	38695520	TT	GG	1946825794
SNP_P4_60257_38695559	NC_021163.1	Ca_kabuli_chr04	38695559	GG	AA	1946825796
SNP_P4_60258_38695801	NC_021163.1	Ca_kabuli_chr04	38695801	GG	AA	1946825798
SNP_P4_60259_38696017	NC_021163.1	Ca_kabuli_chr04	38696017	AA	GG	1946825800
SNP_P4_60260_38696031	NC_021163.1	Ca_kabuli_chr04	38696031	CC	TT	1946825802
SNP_P4_60261_38696059	NC_021163.1	Ca_kabuli_chr04	38696059	AA	GG	1946825804
SNP_P4_60262_38697151	NC_021163.1	Ca_kabuli_chr04	38697151	GG	TT	1946825806
SNP_P4_60263_38701641	NC_021163.1	Ca_kabuli_chr04	38701641	GG	TT	1946825808
SNP_P4_60264_38701642	NC_021163.1	Ca_kabuli_chr04	38701642	TT	GG	1946825810
SNP_P4_60265_38701646	NC_021163.1	Ca_kabuli_chr04	38701646	CC	TT	1946825812
SNP_P4_60266_38702875	NC_021163.1	Ca_kabuli_chr04	38702875	CC	GG	1946825814
SNP_P4_60267_38703735	NC_021163.1	Ca_kabuli_chr04	38703735	GG	AA	1946825816
SNP_P4_60268_38703926	NC_021163.1	Ca_kabuli_chr04	38703926	AA	GG	1946825818
SNP_P4_60269_38704495	NC_021163.1	Ca_kabuli_chr04	38704495	GG	TT	1946825820
SNP_P4_60270_38704496	NC_021163.1	Ca_kabuli_chr04	38704496	CC	TT	1946825823
SNP_P4_60271_38704555	NC_021163.1	Ca_kabuli_chr04	38704555	AA	GG	1946825825
SNP_P4_60272_38704683	NC_021163.1	Ca_kabuli_chr04	38704683	TT	CC	1946825827
SNP_P4_60273_38704717	NC_021163.1	Ca_kabuli_chr04	38704717	CC	TT	1946825829
SNP_P4_60274_38704749	NC_021163.1	Ca_kabuli_chr04	38704749	AA	GG	1946825831
SNP_P4_60275_38704827	NC_021163.1	Ca_kabuli_chr04	38704827	TT	CC	1946825833
SNP_P4_60276_38704837	NC_021163.1	Ca_kabuli_chr04	38704837	AA	TT	1946825835
SNP_P4_60277_38705150	NC_021163.1	Ca_kabuli_chr04	38705150	TT	AA	1946825837
SNP_P4_60278_38705163	NC_021163.1	Ca_kabuli_chr04	38705163	CC	AA	1946825839
SNP_P4_60280_38707464	NC_021163.1	Ca_kabuli_chr04	38707464	TT	GG	1946825841
SNP_P4_60281_38707479	NC_021163.1	Ca_kabuli_chr04	38707479	CC	TT	1946825843
SNP_P4_60282_38707489	NC_021163.1	Ca_kabuli_chr04	38707489	AA	GG	1946825845
SNP_P4_60283_38707490	NC_021163.1	Ca_kabuli_chr04	38707490	AA	TT	1946825847
SNP_P4_60284_38707503	NC_021163.1	Ca_kabuli_chr04	38707503	TT	CC	1946825849
SNP_P4_60285_38708484	NC_021163.1	Ca_kabuli_chr04	38708484	TT	AA	1946825850
SNP_P4_60286_38708489	NC_021163.1	Ca_kabuli_chr04	38708489	AA	TT	1946825851
SNP_P4_60287_38709125	NC_021163.1	Ca_kabuli_chr04	38709125	TT	CC	1946825852
SNP_P4_60288_38710759	NC_021163.1	Ca_kabuli_chr04	38710759	CC	AA	1946825853

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_60291_38711543	NC_021163.1	Ca_kabuli_chr04	38711543	CC	AA	1946825857
SNP_P4_60292_38711784	NC_021163.1	Ca_kabuli_chr04	38711784	TT	GG	1946825859
SNP_P4_60293_38712875	NC_021163.1	Ca_kabuli_chr04	38712875	TT	CC	1946825861
SNP_P4_60294_38712886	NC_021163.1	Ca_kabuli_chr04	38712886	CC	TT	1946825863
SNP_P4_60295_38713212	NC_021163.1	Ca_kabuli_chr04	38713212	GG	AA	1946825865
SNP_P4_60296_38713223	NC_021163.1	Ca_kabuli_chr04	38713223	TT	CC	1946825868
SNP_P4_60297_38713242	NC_021163.1	Ca_kabuli_chr04	38713242	TT	CC	1946825870
SNP_P4_60298_38713292	NC_021163.1	Ca_kabuli_chr04	38713292	TT	CC	1946825872
SNP_P4_60299_38713310	NC_021163.1	Ca_kabuli_chr04	38713310	CC	TT	1946825874
SNP_P4_60300_38713673	NC_021163.1	Ca_kabuli_chr04	38713673	TT	AA	1946825876
SNP_P4_60301_38713991	NC_021163.1	Ca_kabuli_chr04	38713991	CC	TT	1946825878
SNP_P4_60302_38714031	NC_021163.1	Ca_kabuli_chr04	38714031	CC	TT	1946825880
SNP_P4_60303_38714032	NC_021163.1	Ca_kabuli_chr04	38714032	TT	CC	1946825882
SNP_P4_60304_38714108	NC_021163.1	Ca_kabuli_chr04	38714108	AA	CC	1946825884
SNP_P4_60305_38714148	NC_021163.1	Ca_kabuli_chr04	38714148	TT	CC	1946825886
SNP_P4_60306_38714154	NC_021163.1	Ca_kabuli_chr04	38714154	TT	AA	1946825889
SNP_P4_60307_38714182	NC_021163.1	Ca_kabuli_chr04	38714182	TT	AA	1946825891
SNP_P4_60308_38714195	NC_021163.1	Ca_kabuli_chr04	38714195	GG	CC	1946825893
SNP_P4_60309_38714371	NC_021163.1	Ca_kabuli_chr04	38714371	CC	AA	1946825895
SNP_P4_60311_38714520	NC_021163.1	Ca_kabuli_chr04	38714520	GG	AA	1946825898
SNP_P4_60312_38714652	NC_021163.1	Ca_kabuli_chr04	38714652	CC	AA	1946825900
SNP_P4_60313_38715459	NC_021163.1	Ca_kabuli_chr04	38715459	AA	GG	1946825902
SNP_P4_60314_38715478	NC_021163.1	Ca_kabuli_chr04	38715478	AA	GG	1946825904
SNP_P4_60315_38715583	NC_021163.1	Ca_kabuli_chr04	38715583	GG	TT	1946825907
SNP_P4_60316_38715603	NC_021163.1	Ca_kabuli_chr04	38715603	AA	CC	1946825909
SNP_P4_60317_38715655	NC_021163.1	Ca_kabuli_chr04	38715655	CC	TT	1946825911
SNP_P4_60318_38715660	NC_021163.1	Ca_kabuli_chr04	38715660	AA	TT	1946825913
SNP_P4_60319_38715681	NC_021163.1	Ca_kabuli_chr04	38715681	CC	GG	1946825915
SNP_P4_60320_38716075	NC_021163.1	Ca_kabuli_chr04	38716075	CC	TT	1946825917
SNP_P4_60321_38716078	NC_021163.1	Ca_kabuli_chr04	38716078	CC	TT	1946825920
SNP_P4_60322_38716087	NC_021163.1	Ca_kabuli_chr04	38716087	CC	TT	1946825922
SNP_P4_60323_38716279	NC_021163.1	Ca_kabuli_chr04	38716279	AA	CC	1946825924
SNP_P4_60324_38716284	NC_021163.1	Ca_kabuli_chr04	38716284	CC	AA	1946825926
SNP_P4_60325_38717932	NC_021163.1	Ca_kabuli_chr04	38717932	AA	GG	1946825928
SNP_P4_60326_38718167	NC_021163.1	Ca_kabuli_chr04	38718167	AA	GG	1946825930
SNP_P4_60327_38718268	NC_021163.1	Ca_kabuli_chr04	38718268	CC	TT	1946825932
SNP_P4_60328_38718280	NC_021163.1	Ca_kabuli_chr04	38718280	TT	CC	1946825934
SNP_P4_60329_38718466	NC_021163.1	Ca_kabuli_chr04	38718466	GG	AA	1946825937
SNP_P4_60330_38718657	NC_021163.1	Ca_kabuli_chr04	38718657	GG	AA	1946825939
SNP_P4_60331_38719414	NC_021163.1	Ca_kabuli_chr04	38719414	GG	AA	1946825941
SNP_P4_60332_38719451	NC_021163.1	Ca_kabuli_chr04	38719451	CC	TT	1946825943

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_60334_38720828	NC_021163.1	Ca_kabuli_chr04	38720828	GG	AA	1946825947
SNP_P4_60335_38720868	NC_021163.1	Ca_kabuli_chr04	38720868	AA	GG	1946825949
SNP_P4_60336_38721502	NC_021163.1	Ca_kabuli_chr04	38721502	CC	TT	1946825951
SNP_P4_60337_38721792	NC_021163.1	Ca_kabuli_chr04	38721792	TT	CC	1946825953
SNP_P4_60338_38721836	NC_021163.1	Ca_kabuli_chr04	38721836	GG	TT	1946825955
SNP_P4_60339_38721839	NC_021163.1	Ca_kabuli_chr04	38721839	TT	CC	1946825957
SNP_P4_60340_38723976	NC_021163.1	Ca_kabuli_chr04	38723976	CC	TT	1946825959
SNP_P4_60341_38725412	NC_021163.1	Ca_kabuli_chr04	38725412	TT	CC	1946825961
SNP_P4_60342_38726462	NC_021163.1	Ca_kabuli_chr04	38726462	GG	AA	1946825963
SNP_P4_60343_38726504	NC_021163.1	Ca_kabuli_chr04	38726504	GG	AA	1946825965
SNP_P4_60345_38727739	NC_021163.1	Ca_kabuli_chr04	38727739	CC	TT	1946825967
SNP_P4_60346_38729073	NC_021163.1	Ca_kabuli_chr04	38729073	TT	CC	1946825969
SNP_P4_60347_38729103	NC_021163.1	Ca_kabuli_chr04	38729103	AA	CC	1946825971
SNP_P4_60348_38729131	NC_021163.1	Ca_kabuli_chr04	38729131	CC	TT	1946825973
SNP_P4_60349_38729714	NC_021163.1	Ca_kabuli_chr04	38729714	CC	TT	1946825975
SNP_P4_60350_38730269	NC_021163.1	Ca_kabuli_chr04	38730269	CC	TT	1946825977
SNP_P4_60351_38730918	NC_021163.1	Ca_kabuli_chr04	38730918	TT	CC	1946825979
SNP_P4_60352_38730977	NC_021163.1	Ca_kabuli_chr04	38730977	TT	CC	1946825981
SNP_P4_60353_38730980	NC_021163.1	Ca_kabuli_chr04	38730980	TT	CC	1946825983
SNP_P4_60354_38731002	NC_021163.1	Ca_kabuli_chr04	38731002	CC	TT	1946825985
SNP_P4_60355_38731135	NC_021163.1	Ca_kabuli_chr04	38731135	CC	TT	1946825987
SNP_P4_60356_38731406	NC_021163.1	Ca_kabuli_chr04	38731406	TT	CC	1946825989
SNP_P4_60357_38733343	NC_021163.1	Ca_kabuli_chr04	38733343	AA	GG	1946825991
SNP_P4_60358_38733351	NC_021163.1	Ca_kabuli_chr04	38733351	CC	TT	1946825993
SNP_P4_60359_38733402	NC_021163.1	Ca_kabuli_chr04	38733402	TT	GG	1946825995
SNP_P4_60361_38734181	NC_021163.1	Ca_kabuli_chr04	38734181	AA	GG	1946825997
SNP_P4_60363_38736691	NC_021163.1	Ca_kabuli_chr04	38736691	TT	CC	1946825999
SNP_P4_60364_38737798	NC_021163.1	Ca_kabuli_chr04	38737798	CC	TT	1946826001
SNP_P4_60365_38738327	NC_021163.1	Ca_kabuli_chr04	38738327	CC	TT	1946826003
SNP_P4_60366_38738331	NC_021163.1	Ca_kabuli_chr04	38738331	AA	CC	1946826005
SNP_P4_60367_38738586	NC_021163.1	Ca_kabuli_chr04	38738586	TT	CC	1946826007
SNP_P4_60368_38738631	NC_021163.1	Ca_kabuli_chr04	38738631	TT	CC	1946826009
SNP_P4_60369_38738906	NC_021163.1	Ca_kabuli_chr04	38738906	TT	CC	1946826011
SNP_P4_60371_38739362	NC_021163.1	Ca_kabuli_chr04	38739362	CC	TT	1946826013
SNP_P4_60372_38739390	NC_021163.1	Ca_kabuli_chr04	38739390	TT	CC	1946826015
SNP_P4_60373_38739430	NC_021163.1	Ca_kabuli_chr04	38739430	TT	CC	1946826017
SNP_P4_60374_38739626	NC_021163.1	Ca_kabuli_chr04	38739626	CC	AA	1946826019
SNP_P4_60376_38743579	NC_021163.1	Ca_kabuli_chr04	38743579	GG	AA	1946826021
SNP_P4_60377_38743771	NC_021163.1	Ca_kabuli_chr04	38743771	GG	TT	1946826023
SNP_P4_60379_38744181	NC_021163.1	Ca_kabuli_chr04	38744181	AA	GG	1946826025
SNP_P4_60380_38744442	NC_021163.1	Ca_kabuli_chr04	38744442	AA	GG	1946826027

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_60383_38746314	NC_021163.1	Ca_kabuli_chr04	38746314	CC	AA	1946826031
SNP_P4_60384_38747497	NC_021163.1	Ca_kabuli_chr04	38747497	TT	AA	1946826033
SNP_P4_60385_38748876	NC_021163.1	Ca_kabuli_chr04	38748876	GG	AA	1946826035
SNP_P4_60386_38749055	NC_021163.1	Ca_kabuli_chr04	38749055	CC	TT	1946826037
SNP_P4_60387_38749125	NC_021163.1	Ca_kabuli_chr04	38749125	TT	CC	1946826039
SNP_P4_60388_38750062	NC_021163.1	Ca_kabuli_chr04	38750062	AA	GG	1946826041
SNP_P4_60390_38750378	NC_021163.1	Ca_kabuli_chr04	38750378	TT	CC	1946826043
SNP_P4_60391_38750383	NC_021163.1	Ca_kabuli_chr04	38750383	CC	TT	1946826045
SNP_P4_60392_38750423	NC_021163.1	Ca_kabuli_chr04	38750423	AA	GG	1946826047
SNP_P4_60393_38750575	NC_021163.1	Ca_kabuli_chr04	38750575	TT	CC	1946826049
SNP_P4_60394_38751376	NC_021163.1	Ca_kabuli_chr04	38751376	TT	CC	1946826052
SNP_P4_60395_38751383	NC_021163.1	Ca_kabuli_chr04	38751383	TT	GG	1946826054
SNP_P4_60396_38751653	NC_021163.1	Ca_kabuli_chr04	38751653	GG	AA	1946826056
SNP_P4_60397_38752144	NC_021163.1	Ca_kabuli_chr04	38752144	GG	AA	1946826058
SNP_P4_60398_38752160	NC_021163.1	Ca_kabuli_chr04	38752160	GG	AA	1946826060
SNP_P4_60399_38753259	NC_021163.1	Ca_kabuli_chr04	38753259	AA	GG	1946826062
SNP_P4_60400_38753472	NC_021163.1	Ca_kabuli_chr04	38753472	TT	AA	1946826064
SNP_P4_60401_38755675	NC_021163.1	Ca_kabuli_chr04	38755675	CC	GG	1946826066
SNP_P4_60402_38755964	NC_021163.1	Ca_kabuli_chr04	38755964	GG	CC	1946826068
SNP_P4_60403_38757439	NC_021163.1	Ca_kabuli_chr04	38757439	CC	GG	1946826070
SNP_P4_60404_38757441	NC_021163.1	Ca_kabuli_chr04	38757441	GG	AA	1946826072
SNP_P4_60406_38757478	NC_021163.1	Ca_kabuli_chr04	38757478	AA	TT	1946826074
SNP_P4_60407_38757701	NC_021163.1	Ca_kabuli_chr04	38757701	AA	GG	1946826076
SNP_P4_60409_38761337	NC_021163.1	Ca_kabuli_chr04	38761337	TT	CC	1946826078
SNP_P4_60410_38761392	NC_021163.1	Ca_kabuli_chr04	38761392	GG	TT	1946826080
SNP_P4_60411_38763925	NC_021163.1	Ca_kabuli_chr04	38763925	GG	AA	1946826082
SNP_P4_60412_38764022	NC_021163.1	Ca_kabuli_chr04	38764022	AA	GG	1946826084
SNP_P4_60413_38764044	NC_021163.1	Ca_kabuli_chr04	38764044	GG	TT	1946826086
SNP_P4_60414_38764256	NC_021163.1	Ca_kabuli_chr04	38764256	GG	TT	1946826088
SNP_P4_60415_38768828	NC_021163.1	Ca_kabuli_chr04	38768828	AA	CC	1946826090
SNP_P4_60416_38768833	NC_021163.1	Ca_kabuli_chr04	38768833	GG	AA	1946826092
SNP_P4_60417_38770288	NC_021163.1	Ca_kabuli_chr04	38770288	AA	GG	1946826094
SNP_P4_60418_38770582	NC_021163.1	Ca_kabuli_chr04	38770582	AA	GG	1946826096
SNP_P4_60422_38773829	NC_021163.1	Ca_kabuli_chr04	38773829	TT	AA	1946826098
SNP_P4_60423_38773984	NC_021163.1	Ca_kabuli_chr04	38773984	AA	TT	1946826100
SNP_P4_60424_38774562	NC_021163.1	Ca_kabuli_chr04	38774562	TT	CC	1946826102
SNP_P4_60425_38774597	NC_021163.1	Ca_kabuli_chr04	38774597	GG	AA	1946826104
SNP_P4_60426_38779291	NC_021163.1	Ca_kabuli_chr04	38779291	CC	TT	1946826106
SNP_P4_60427_38779595	NC_021163.1	Ca_kabuli_chr04	38779595	TT	CC	1946826109
SNP_P4_60428_38780791	NC_021163.1	Ca_kabuli_chr04	38780791	AA	TT	1946826111
SNP_P4_60429_38780850	NC_021163.1	Ca_kabuli_chr04	38780850	CC	TT	1946826113

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_60431_38781809	NC_021163.1	Ca_kabuli_chr04	38781809	GG	TT	1946826117
SNP_P4_60432_38782329	NC_021163.1	Ca_kabuli_chr04	38782329	TT	GG	1946826119
SNP_P4_60433_38782486	NC_021163.1	Ca_kabuli_chr04	38782486	CC	TT	1946826121
SNP_P4_60434_38782894	NC_021163.1	Ca_kabuli_chr04	38782894	AA	GG	1946826123
SNP_P4_60435_38784045	NC_021163.1	Ca_kabuli_chr04	38784045	GG	CC	1946826125
SNP_P4_60436_38784500	NC_021163.1	Ca_kabuli_chr04	38784500	GG	TT	1946826127
SNP_P4_60437_38786540	NC_021163.1	Ca_kabuli_chr04	38786540	AA	GG	1946826129
SNP_P4_60438_38786701	NC_021163.1	Ca_kabuli_chr04	38786701	CC	TT	1946826131
SNP_P4_60439_38786819	NC_021163.1	Ca_kabuli_chr04	38786819	AA	GG	1946826133
SNP_P4_60440_38788573	NC_021163.1	Ca_kabuli_chr04	38788573	CC	AA	1946826135
SNP_P4_60441_38788743	NC_021163.1	Ca_kabuli_chr04	38788743	CC	TT	1946826137
SNP_P4_60442_38788812	NC_021163.1	Ca_kabuli_chr04	38788812	CC	TT	1946826139
SNP_P4_60443_38789006	NC_021163.1	Ca_kabuli_chr04	38789006	CC	AA	1946826141
SNP_P4_60444_38789019	NC_021163.1	Ca_kabuli_chr04	38789019	TT	CC	1946826143
SNP_P4_60445_38789051	NC_021163.1	Ca_kabuli_chr04	38789051	TT	CC	1946826145
SNP_P4_60446_38789074	NC_021163.1	Ca_kabuli_chr04	38789074	TT	AA	1946826147
SNP_P4_60447_38789512	NC_021163.1	Ca_kabuli_chr04	38789512	CC	TT	1946826149
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SNP_P4_60449_38789537	NC_021163.1	Ca_kabuli_chr04	38789537	GG	AA	1946826153
SNP_P4_60450_38789836	NC_021163.1	Ca_kabuli_chr04	38789836	TT	CC	1946826155
SNP_P4_60451_38789838	NC_021163.1	Ca_kabuli_chr04	38789838	AA	CC	1946826158
SNP_P4_60452_38789901	NC_021163.1	Ca_kabuli_chr04	38789901	GG	AA	1946826160
SNP_P4_60453_38790192	NC_021163.1	Ca_kabuli_chr04	38790192	GG	AA	1946826161
SNP_P4_60454_38790220	NC_021163.1	Ca_kabuli_chr04	38790220	CC	TT	1946826163
SNP_P4_60455_38790231	NC_021163.1	Ca_kabuli_chr04	38790231	GG	AA	1946826165
SNP_P4_60456_38790257	NC_021163.1	Ca_kabuli_chr04	38790257	TT	CC	1946826167
SNP_P4_60457_38790991	NC_021163.1	Ca_kabuli_chr04	38790991	AA	TT	1946826169
SNP_P4_60458_38796637	NC_021163.1	Ca_kabuli_chr04	38796637	CC	TT	1946826171
SNP_P4_60459_38796640	NC_021163.1	Ca_kabuli_chr04	38796640	TT	CC	1946826173
SNP_P4_60460_38798731	NC_021163.1	Ca_kabuli_chr04	38798731	AA	GG	1946826175
SNP_P4_60461_38798741	NC_021163.1	Ca_kabuli_chr04	38798741	AA	TT	1946826177
SNP_P4_60462_38798743	NC_021163.1	Ca_kabuli_chr04	38798743	AA	TT	1946826179
SNP_P4_60463_38798759	NC_021163.1	Ca_kabuli_chr04	38798759	AA	GG	1946826181
SNP_P4_60464_38799021	NC_021163.1	Ca_kabuli_chr04	38799021	AA	GG	1946826183
SNP_P4_60465_38799035	NC_021163.1	Ca_kabuli_chr04	38799035	GG	TT	1946826185
SNP_P4_60466_38799037	NC_021163.1	Ca_kabuli_chr04	38799037	TT	AA	1946826187
SNP_P4_60467_38800162	NC_021163.1	Ca_kabuli_chr04	38800162	AA	GG	1946826189
SNP_P4_60468_38800492	NC_021163.1	Ca_kabuli_chr04	38800492	GG	TT	1946826191
SNP_P4_60469_38800499	NC_021163.1	Ca_kabuli_chr04	38800499	TT	CC	1946826193
SNP_P4_60470_38800513	NC_021163.1	Ca_kabuli_chr04	38800513	AA	TT	1946826195
SNP_P4_60472_38806152	NC_021163.1	Ca_kabuli_chr04	38806152	CC	TT	1946826197

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_60474_38806174	NC_021163.1	Ca_kabuli_chr04	38806174	CC	TT	1946826201
SNP_P4_60476_38807238	NC_021163.1	Ca_kabuli_chr04	38807238	TT	AA	1946826203
SNP_P4_60477_38807246	NC_021163.1	Ca_kabuli_chr04	38807246	AA	GG	1946826205
SNP_P4_60478_38807849	NC_021163.1	Ca_kabuli_chr04	38807849	CC	TT	1946826207
SNP_P4_60479_38807862	NC_021163.1	Ca_kabuli_chr04	38807862	AA	CC	1946826209
SNP_P4_60480_38808418	NC_021163.1	Ca_kabuli_chr04	38808418	AA	GG	1946826211
SNP_P4_60481_38808627	NC_021163.1	Ca_kabuli_chr04	38808627	GG	CC	1946826213
SNP_P4_60482_38808632	NC_021163.1	Ca_kabuli_chr04	38808632	TT	CC	1946826215
SNP_P4_60483_38810369	NC_021163.1	Ca_kabuli_chr04	38810369	AA	CC	1946826217
SNP_P4_60484_38810376	NC_021163.1	Ca_kabuli_chr04	38810376	GG	TT	1946826219
SNP_P4_60485_38811896	NC_021163.1	Ca_kabuli_chr04	38811896	CC	TT	1946826221
SNP_P4_60486_38812141	NC_021163.1	Ca_kabuli_chr04	38812141	CC	AA	1946826223
SNP_P4_60487_38813145	NC_021163.1	Ca_kabuli_chr04	38813145	CC	AA	1946826225
SNP_P4_60488_38814293	NC_021163.1	Ca_kabuli_chr04	38814293	CC	TT	1946826227
SNP_P4_60489_38814470	NC_021163.1	Ca_kabuli_chr04	38814470	GG	TT	1946826229
SNP_P4_60490_38814475	NC_021163.1	Ca_kabuli_chr04	38814475	TT	CC	1946826231
SNP_P4_60491_38814476	NC_021163.1	Ca_kabuli_chr04	38814476	AA	GG	1946826233
SNP_P4_60492_38814551	NC_021163.1	Ca_kabuli_chr04	38814551	CC	TT	1946826235
SNP_P4_60493_38814574	NC_021163.1	Ca_kabuli_chr04	38814574	TT	GG	1946826237
SNP_P4_60494_38815211	NC_021163.1	Ca_kabuli_chr04	38815211	TT	CC	1946826239
SNP_P4_60495_38815373	NC_021163.1	Ca_kabuli_chr04	38815373	TT	CC	1946826241
SNP_P4_60496_38816562	NC_021163.1	Ca_kabuli_chr04	38816562	TT	AA	1946826243
SNP_P4_60498_38820457	NC_021163.1	Ca_kabuli_chr04	38820457	TT	GG	1946826245
SNP_P4_60500_38823234	NC_021163.1	Ca_kabuli_chr04	38823234	CC	AA	1946826247
SNP_P4_60501_38823463	NC_021163.1	Ca_kabuli_chr04	38823463	GG	TT	1946826249
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SNP_P4_60503_38823515	NC_021163.1	Ca_kabuli_chr04	38823515	TT	AA	1946826253
SNP_P4_60504_38824103	NC_021163.1	Ca_kabuli_chr04	38824103	TT	CC	1946826255
SNP_P4_60505_38824126	NC_021163.1	Ca_kabuli_chr04	38824126	CC	GG	1946826257
SNP_P4_60506_38824403	NC_021163.1	Ca_kabuli_chr04	38824403	TT	AA	1946826259
SNP_P4_60507_38825240	NC_021163.1	Ca_kabuli_chr04	38825240	GG	AA	1946826261
SNP_P4_60508_38825292	NC_021163.1	Ca_kabuli_chr04	38825292	GG	AA	1946826263
SNP_P4_60509_38825358	NC_021163.1	Ca_kabuli_chr04	38825358	GG	TT	1946826265
SNP_P4_60510_38825606	NC_021163.1	Ca_kabuli_chr04	38825606	AA	GG	1946826267
SNP_P4_60511_38825847	NC_021163.1	Ca_kabuli_chr04	38825847	AA	TT	1946826269
SNP_P4_60512_38825951	NC_021163.1	Ca_kabuli_chr04	38825951	CC	TT	1946826271
SNP_P4_60513_38829455	NC_021163.1	Ca_kabuli_chr04	38829455	AA	TT	1946826273
SNP_P4_60514_38830289	NC_021163.1	Ca_kabuli_chr04	38830289	TT	CC	1946826275
SNP_P4_60515_38830300	NC_021163.1	Ca_kabuli_chr04	38830300	AA	CC	1946826277
SNP_P4_60516_38830473	NC_021163.1	Ca_kabuli_chr04	38830473	CC	TT	1946826279
SNP_P4_60518_38830558	NC_021163.1	Ca_kabuli_chr04	38830558	TT	CC	1946826281

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_60520_38830784	NC_021163.1	Ca_kabuli_chr04	38830784	GG	TT	1946826285
SNP_P4_60521_38832740	NC_021163.1	Ca_kabuli_chr04	38832740	AA	CC	1946826287
SNP_P4_60523_38837670	NC_021163.1	Ca_kabuli_chr04	38837670	GG	TT	1946826289
SNP_P4_60524_38837672	NC_021163.1	Ca_kabuli_chr04	38837672	TT	GG	1946826291
SNP_P4_60525_38838052	NC_021163.1	Ca_kabuli_chr04	38838052	AA	GG	1946826293
SNP_P4_60526_38840151	NC_021163.1	Ca_kabuli_chr04	38840151	TT	CC	1946826295
SNP_P4_60527_38840564	NC_021163.1	Ca_kabuli_chr04	38840564	CC	TT	1946826297
SNP_P4_60528_38845573	NC_021163.1	Ca_kabuli_chr04	38845573	CC	AA	1946826299
SNP_P4_60529_38845925	NC_021163.1	Ca_kabuli_chr04	38845925	TT	CC	1946826301
SNP_P4_60530_38845933	NC_021163.1	Ca_kabuli_chr04	38845933	CC	TT	1946826303
SNP_P4_60531_38846005	NC_021163.1	Ca_kabuli_chr04	38846005	AA	TT	1946826305
SNP_P4_60532_38846227	NC_021163.1	Ca_kabuli_chr04	38846227	GG	CC	1946826307
SNP_P4_60533_38846920	NC_021163.1	Ca_kabuli_chr04	38846920	CC	GG	1946826309
SNP_P4_60534_38848009	NC_021163.1	Ca_kabuli_chr04	38848009	CC	AA	1946826312
SNP_P4_60535_38850376	NC_021163.1	Ca_kabuli_chr04	38850376	GG	TT	1946826314
SNP_P4_60536_38851691	NC_021163.1	Ca_kabuli_chr04	38851691	AA	GG	1946826316
SNP_P4_60537_38852066	NC_021163.1	Ca_kabuli_chr04	38852066	GG	CC	1946826318
SNP_P4_60538_38852101	NC_021163.1	Ca_kabuli_chr04	38852101	AA	GG	1946826320
SNP_P4_60539_38858905	NC_021163.1	Ca_kabuli_chr04	38858905	AA	TT	1946826322
SNP_P4_60540_38858930	NC_021163.1	Ca_kabuli_chr04	38858930	GG	AA	1946826324
SNP_P4_60541_38858945	NC_021163.1	Ca_kabuli_chr04	38858945	AA	TT	1946826326
SNP_P4_60543_38859855	NC_021163.1	Ca_kabuli_chr04	38859855	TT	CC	1946826328
SNP_P4_60544_38859914	NC_021163.1	Ca_kabuli_chr04	38859914	CC	TT	1946826330
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SNP_P4_60546_38859923	NC_021163.1	Ca_kabuli_chr04	38859923	TT	AA	1946826334
SNP_P4_60547_38859963	NC_021163.1	Ca_kabuli_chr04	38859963	CC	TT	1946826336
SNP_P4_60548_38860294	NC_021163.1	Ca_kabuli_chr04	38860294	CC	TT	1946826338
SNP_P4_60549_38860311	NC_021163.1	Ca_kabuli_chr04	38860311	TT	AA	1946826340
SNP_P4_60550_38864899	NC_021163.1	Ca_kabuli_chr04	38864899	CC	TT	1946826342
SNP_P4_60551_38864970	NC_021163.1	Ca_kabuli_chr04	38864970	CC	GG	1946826344
SNP_P4_60552_38864979	NC_021163.1	Ca_kabuli_chr04	38864979	AA	TT	1946826346
SNP_P4_60553_38868384	NC_021163.1	Ca_kabuli_chr04	38868384	TT	CC	1946826348
SNP_P4_60554_38869370	NC_021163.1	Ca_kabuli_chr04	38869370	CC	TT	1946826350
SNP_P4_60555_38870938	NC_021163.1	Ca_kabuli_chr04	38870938	GG	AA	1946826352
SNP_P4_60556_38871867	NC_021163.1	Ca_kabuli_chr04	38871867	TT	GG	1946826354
SNP_P4_60557_38871900	NC_021163.1	Ca_kabuli_chr04	38871900	GG	CC	1946826356
SNP_P4_60558_38872231	NC_021163.1	Ca_kabuli_chr04	38872231	AA	GG	1946826358
SNP_P4_60559_38872232	NC_021163.1	Ca_kabuli_chr04	38872232	CC	TT	1946826360
SNP_P4_60560_38874486	NC_021163.1	Ca_kabuli_chr04	38874486	AA	GG	1946826362
SNP_P4_60561_38874491	NC_021163.1	Ca_kabuli_chr04	38874491	GG	AA	1946826364
SNP_P4_60562_38874542	NC_021163.1	Ca_kabuli_chr04	38874542	AA	CC	1946826366

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_60566_38874790	NC_021163.1	Ca_kabuli_chr04	38874790	AA	GG	1946826372
SNP_P4_60567_38875209	NC_021163.1	Ca_kabuli_chr04	38875209	AA	GG	1946826374
SNP_P4_60568_38875237	NC_021163.1	Ca_kabuli_chr04	38875237	GG	AA	1946826376
SNP_P4_60569_38875265	NC_021163.1	Ca_kabuli_chr04	38875265	GG	AA	1946826378
SNP_P4_60570_38877152	NC_021163.1	Ca_kabuli_chr04	38877152	GG	AA	1946826380
SNP_P4_60571_38877296	NC_021163.1	Ca_kabuli_chr04	38877296	CC	TT	1946826382
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SNP_P4_60574_38877936	NC_021163.1	Ca_kabuli_chr04	38877936	CC	TT	1946826388
SNP_P4_60575_38877953	NC_021163.1	Ca_kabuli_chr04	38877953	AA	GG	1946826390
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SNP_P4_60578_38881452	NC_021163.1	Ca_kabuli_chr04	38881452	AA	GG	1946826396
SNP_P4_60579_38881476	NC_021163.1	Ca_kabuli_chr04	38881476	AA	GG	1946826398
SNP_P4_60580_38881523	NC_021163.1	Ca_kabuli_chr04	38881523	GG	AA	1946826400
SNP_P4_60581_38881568	NC_021163.1	Ca_kabuli_chr04	38881568	AA	GG	1946826402
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SNP_P4_60583_38881607	NC_021163.1	Ca_kabuli_chr04	38881607	CC	AA	1946826406
SNP_P4_60584_38881633	NC_021163.1	Ca_kabuli_chr04	38881633	GG	AA	1946826408
SNP_P4_60585_38881863	NC_021163.1	Ca_kabuli_chr04	38881863	CC	AA	1946826410
SNP_P4_60586_38881869	NC_021163.1	Ca_kabuli_chr04	38881869	GG	AA	1946826412
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SNP_P4_60591_38883131	NC_021163.1	Ca_kabuli_chr04	38883131	AA	GG	1946826422
SNP_P4_60592_38883929	NC_021163.1	Ca_kabuli_chr04	38883929	GG	AA	1946826424
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SNP_P4_60594_38884887	NC_021163.1	Ca_kabuli_chr04	38884887	GG	CC	1946826428
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SNP_P4_60597_38885497	NC_021163.1	Ca_kabuli_chr04	38885497	AA	GG	1946826432
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SNP_P4_60602_38887154	NC_021163.1	Ca_kabuli_chr04	38887154	TT	CC	1946826438
SNP_P4_60605_38887619	NC_021163.1	Ca_kabuli_chr04	38887619	TT	GG	1946826440
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SNP_P4_60607_38887877	NC_021163.1	Ca_kabuli_chr04	38887877	AA	GG	1946826444
SNP_P4_60608_38888144	NC_021163.1	Ca_kabuli_chr04	38888144	TT	CC	1946826446
SNP_P4_60609_38889481	NC_021163.1	Ca_kabuli_chr04	38889481	CC	TT	1946826448
SNP_P4_60610_38889527	NC_021163.1	Ca_kabuli_chr04	38889527	TT	CC	1946826450

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_60614_38892200	NC_021163.1	Ca_kabuli_chr04	38892200	TT	CC	1946826456
SNP_P4_60615_38894848	NC_021163.1	Ca_kabuli_chr04	38894848	TT	CC	1946826458
SNP_P4_60618_38896224	NC_021163.1	Ca_kabuli_chr04	38896224	TT	CC	1946826460
SNP_P4_60619_38898943	NC_021163.1	Ca_kabuli_chr04	38898943	CC	GG	1946826462
SNP_P4_60620_38898962	NC_021163.1	Ca_kabuli_chr04	38898962	TT	GG	1946826464
SNP_P4_60621_38913898	NC_021163.1	Ca_kabuli_chr04	38913898	TT	CC	1946826466
SNP_P4_60622_38913950	NC_021163.1	Ca_kabuli_chr04	38913950	AA	CC	1946826468
SNP_P4_60623_38914440	NC_021163.1	Ca_kabuli_chr04	38914440	TT	GG	1946826470
SNP_P4_60625_38915084	NC_021163.1	Ca_kabuli_chr04	38915084	AA	GG	1946826472
SNP_P4_60626_38915380	NC_021163.1	Ca_kabuli_chr04	38915380	AA	TT	1946826474
SNP_P4_60627_38915405	NC_021163.1	Ca_kabuli_chr04	38915405	GG	TT	1946826476
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SNP_P4_60629_38915632	NC_021163.1	Ca_kabuli_chr04	38915632	AA	CC	1946826480
SNP_P4_60630_38915656	NC_021163.1	Ca_kabuli_chr04	38915656	CC	TT	1946826482
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SNP_P4_60632_38916830	NC_021163.1	Ca_kabuli_chr04	38916830	AA	TT	1946826486
SNP_P4_60633_38916844	NC_021163.1	Ca_kabuli_chr04	38916844	TT	CC	1946826488
SNP_P4_60634_38917174	NC_021163.1	Ca_kabuli_chr04	38917174	CC	TT	1946826490
SNP_P4_60635_38917176	NC_021163.1	Ca_kabuli_chr04	38917176	AA	GG	1946826492
SNP_P4_60636_38917351	NC_021163.1	Ca_kabuli_chr04	38917351	CC	GG	1946826495
SNP_P4_60637_38917354	NC_021163.1	Ca_kabuli_chr04	38917354	CC	TT	1946826497
SNP_P4_60638_38917712	NC_021163.1	Ca_kabuli_chr04	38917712	TT	CC	1946826499
SNP_P4_60639_38917990	NC_021163.1	Ca_kabuli_chr04	38917990	TT	CC	1946826501
SNP_P4_60640_38918904	NC_021163.1	Ca_kabuli_chr04	38918904	GG	CC	1946826503
SNP_P4_60641_38918916	NC_021163.1	Ca_kabuli_chr04	38918916	CC	TT	1946826505
SNP_P4_60642_38922377	NC_021163.1	Ca_kabuli_chr04	38922377	CC	TT	1946826507
SNP_P4_60643_38924463	NC_021163.1	Ca_kabuli_chr04	38924463	TT	CC	1946826509
SNP_P4_60644_38924493	NC_021163.1	Ca_kabuli_chr04	38924493	CC	GG	1946826511
SNP_P4_60645_38924515	NC_021163.1	Ca_kabuli_chr04	38924515	TT	CC	1946826513
SNP_P4_60646_38924540	NC_021163.1	Ca_kabuli_chr04	38924540	TT	AA	1946826515
SNP_P4_60647_38925203	NC_021163.1	Ca_kabuli_chr04	38925203	TT	AA	1946826517
SNP_P4_60648_38925241	NC_021163.1	Ca_kabuli_chr04	38925241	TT	AA	1946826519
SNP_P4_60649_38925262	NC_021163.1	Ca_kabuli_chr04	38925262	AA	TT	1946826521
SNP_P4_60650_38926165	NC_021163.1	Ca_kabuli_chr04	38926165	GG	AA	1946826523
SNP_P4_60651_38928030	NC_021163.1	Ca_kabuli_chr04	38928030	TT	CC	1946826525
SNP_P4_60652_38929400	NC_021163.1	Ca_kabuli_chr04	38929400	CC	TT	1946826527
SNP_P4_60653_38930225	NC_021163.1	Ca_kabuli_chr04	38930225	GG	TT	1946826529
SNP_P4_60654_38930909	NC_021163.1	Ca_kabuli_chr04	38930909	TT	AA	1946826531
SNP_P4_60655_38931497	NC_021163.1	Ca_kabuli_chr04	38931497	TT	CC	1946826533
SNP_P4_60656_38931709	NC_021163.1	Ca_kabuli_chr04	38931709	GG	TT	1946826535

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_60657_38931862	NC_021163.1	Ca_kabuli_chr04	38931862	GG	TT	1946826537
SNP_P4_60658_38931882	NC_021163.1	Ca_kabuli_chr04	38931882	AA	GG	1946826539
SNP_P4_60659_38932495	NC_021163.1	Ca_kabuli_chr04	38932495	TT	AA	1946826541
SNP_P4_60660_38932555	NC_021163.1	Ca_kabuli_chr04	38932555	GG	AA	1946826543
SNP_P4_60661_38933120	NC_021163.1	Ca_kabuli_chr04	38933120	AA	CC	1946826545
SNP_P4_60662_38933124	NC_021163.1	Ca_kabuli_chr04	38933124	AA	GG	1946826547
SNP_P4_60663_38933455	NC_021163.1	Ca_kabuli_chr04	38933455	GG	AA	1946826549
SNP_P4_60664_38933456	NC_021163.1	Ca_kabuli_chr04	38933456	CC	TT	1946826551
SNP_P4_60665_38935870	NC_021163.1	Ca_kabuli_chr04	38935870	GG	AA	1946826553
SNP_P4_60666_38935871	NC_021163.1	Ca_kabuli_chr04	38935871	CC	TT	1946826555
SNP_P4_60668_38937847	NC_021163.1	Ca_kabuli_chr04	38937847	AA	GG	1946826557
SNP_P4_60669_38940385	NC_021163.1	Ca_kabuli_chr04	38940385	TT	CC	1946826559
SNP_P4_60670_38940417	NC_021163.1	Ca_kabuli_chr04	38940417	TT	CC	1946826561
SNP_P4_60671_38940710	NC_021163.1	Ca_kabuli_chr04	38940710	TT	CC	1946826563
SNP_P4_60672_38940716	NC_021163.1	Ca_kabuli_chr04	38940716	AA	TT	1946826565
SNP_P4_60673_38940723	NC_021163.1	Ca_kabuli_chr04	38940723	CC	TT	1946826567
SNP_P4_60674_38942781	NC_021163.1	Ca_kabuli_chr04	38942781	GG	AA	1946826569
SNP_P4_60675_38942789	NC_021163.1	Ca_kabuli_chr04	38942789	AA	GG	1946826571
SNP_P4_60676_38942810	NC_021163.1	Ca_kabuli_chr04	38942810	CC	AA	1946826573
SNP_P4_60677_38942875	NC_021163.1	Ca_kabuli_chr04	38942875	TT	CC	1946826575
SNP_P4_60678_38942897	NC_021163.1	Ca_kabuli_chr04	38942897	AA	CC	1946826577
SNP_P4_60679_38943054	NC_021163.1	Ca_kabuli_chr04	38943054	AA	GG	1946826579
SNP_P4_60680_38943067	NC_021163.1	Ca_kabuli_chr04	38943067	AA	GG	1946826581
SNP_P4_60682_38943087	NC_021163.1	Ca_kabuli_chr04	38943087	CC	TT	1946826583
SNP_P4_60683_38944147	NC_021163.1	Ca_kabuli_chr04	38944147	TT	CC	1946826585
SNP_P4_60684_38944171	NC_021163.1	Ca_kabuli_chr04	38944171	TT	AA	1946826587
SNP_P4_60685_38944186	NC_021163.1	Ca_kabuli_chr04	38944186	CC	TT	1946826589
SNP_P4_60687_38946387	NC_021163.1	Ca_kabuli_chr04	38946387	TT	CC	1946826591
SNP_P4_60688_38946394	NC_021163.1	Ca_kabuli_chr04	38946394	TT	CC	1946826593
SNP_P4_60689_38946395	NC_021163.1	Ca_kabuli_chr04	38946395	CC	TT	1946826595
SNP_P4_60690_38948736	NC_021163.1	Ca_kabuli_chr04	38948736	CC	TT	1946826597
SNP_P4_60691_38948788	NC_021163.1	Ca_kabuli_chr04	38948788	AA	TT	1946826599
SNP_P4_60694_38950243	NC_021163.1	Ca_kabuli_chr04	38950243	CC	TT	1946826601
SNP_P4_60696_38952143	NC_021163.1	Ca_kabuli_chr04	38952143	AA	GG	1946826603
SNP_P4_60697_38952145	NC_021163.1	Ca_kabuli_chr04	38952145	GG	AA	1946826606
SNP_P4_60698_38952147	NC_021163.1	Ca_kabuli_chr04	38952147	AA	TT	1946826608
SNP_P4_60699_38953177	NC_021163.1	Ca_kabuli_chr04	38953177	TT	GG	1946826610
SNP_P4_60700_38953193	NC_021163.1	Ca_kabuli_chr04	38953193	CC	TT	1946826612
SNP_P4_60701_38953206	NC_021163.1	Ca_kabuli_chr04	38953206	TT	AA	1946826614
SNP_P4_60702_38954751	NC_021163.1	Ca_kabuli_chr04	38954751	TT	GG	1946826616
SNP_P4_60703_38954766	NC_021163.1	Ca_kabuli_chr04	38954766	CC	GG	1946826618
SNP_P4_60704_38955067	NC_021163.1	Ca_kabuli_chr04	38955067	CC	TT	1946826620

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_60707_38956031	NC_021163.1	Ca_kabuli_chr04	38956031	GG	CC	1946826624
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SNP_P4_60709_38956172	NC_021163.1	Ca_kabuli_chr04	38956172	GG	TT	1946826628
SNP_P4_60710_38956195	NC_021163.1	Ca_kabuli_chr04	38956195	TT	CC	1946826630
SNP_P4_60711_38956226	NC_021163.1	Ca_kabuli_chr04	38956226	GG	AA	1946826632
SNP_P4_60712_38958985	NC_021163.1	Ca_kabuli_chr04	38958985	CC	AA	1946826634
SNP_P4_60713_38959001	NC_021163.1	Ca_kabuli_chr04	38959001	AA	TT	1946826636
SNP_P4_60714_38959173	NC_021163.1	Ca_kabuli_chr04	38959173	AA	TT	1946826638
SNP_P4_60715_38959189	NC_021163.1	Ca_kabuli_chr04	38959189	GG	TT	1946826640
SNP_P4_60717_38961604	NC_021163.1	Ca_kabuli_chr04	38961604	TT	AA	1946826642
SNP_P4_60718_38961803	NC_021163.1	Ca_kabuli_chr04	38961803	GG	TT	1946826644
SNP_P4_60719_38962654	NC_021163.1	Ca_kabuli_chr04	38962654	GG	TT	1946826646
SNP_P4_60722_38963666	NC_021163.1	Ca_kabuli_chr04	38963666	TT	AA	1946826648
SNP_P4_60723_38963922	NC_021163.1	Ca_kabuli_chr04	38963922	TT	CC	1946826650
SNP_P4_60724_38963999	NC_021163.1	Ca_kabuli_chr04	38963999	TT	CC	1946826652
SNP_P4_60726_38965172	NC_021163.1	Ca_kabuli_chr04	38965172	AA	CC	1946826654
SNP_P4_60727_38967597	NC_021163.1	Ca_kabuli_chr04	38967597	CC	AA	1946826656
SNP_P4_60728_38968468	NC_021163.1	Ca_kabuli_chr04	38968468	CC	TT	1946826658
SNP_P4_60729_38968487	NC_021163.1	Ca_kabuli_chr04	38968487	AA	GG	1946826660
SNP_P4_60730_38968529	NC_021163.1	Ca_kabuli_chr04	38968529	GG	AA	1946826662
SNP_P4_60731_38968539	NC_021163.1	Ca_kabuli_chr04	38968539	GG	CC	1946826664
SNP_P4_60732_38970032	NC_021163.1	Ca_kabuli_chr04	38970032	GG	AA	1946826666
SNP_P4_60733_38970043	NC_021163.1	Ca_kabuli_chr04	38970043	AA	TT	1946826668
SNP_P4_60734_38970047	NC_021163.1	Ca_kabuli_chr04	38970047	GG	AA	1946826670
SNP_P4_60736_38970767	NC_021163.1	Ca_kabuli_chr04	38970767	AA	TT	1946826672
SNP_P4_60737_38970768	NC_021163.1	Ca_kabuli_chr04	38970768	CC	AA	1946826674
SNP_P4_60738_38970800	NC_021163.1	Ca_kabuli_chr04	38970800	TT	AA	1946826676
SNP_P4_60739_38972230	NC_021163.1	Ca_kabuli_chr04	38972230	AA	GG	1946826678
SNP_P4_60740_38972246	NC_021163.1	Ca_kabuli_chr04	38972246	TT	CC	1946826680
SNP_P4_60741_38972258	NC_021163.1	Ca_kabuli_chr04	38972258	AA	CC	1946826682
SNP_P4_60742_38972579	NC_021163.1	Ca_kabuli_chr04	38972579	CC	TT	1946826684
SNP_P4_60743_38972585	NC_021163.1	Ca_kabuli_chr04	38972585	GG	CC	1946826686
SNP_P4_60744_38972590	NC_021163.1	Ca_kabuli_chr04	38972590	TT	CC	1946826688
SNP_P4_60745_38972594	NC_021163.1	Ca_kabuli_chr04	38972594	AA	CC	1946826690
SNP_P4_60746_38975178	NC_021163.1	Ca_kabuli_chr04	38975178	CC	TT	1946826692
SNP_P4_60747_38975184	NC_021163.1	Ca_kabuli_chr04	38975184	GG	CC	1946826694
SNP_P4_60748_38975386	NC_021163.1	Ca_kabuli_chr04	38975386	TT	GG	1946826696
SNP_P4_60749_38976865	NC_021163.1	Ca_kabuli_chr04	38976865	CC	TT	1946826698
SNP_P4_60750_38977622	NC_021163.1	Ca_kabuli_chr04	38977622	TT	GG	1946826700
SNP_P4_60751_38979313	NC_021163.1	Ca_kabuli_chr04	38979313	AA	GG	1946826702
SNP_P4_60752_38979626	NC_021163.1	Ca_kabuli_chr04	38979626	CC	AA	1946826704

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_60754_38981179	NC_021163.1	Ca_kabuli_chr04	38981179	AA	GG	1946826708
SNP_P4_60755_38981188	NC_021163.1	Ca_kabuli_chr04	38981188	AA	TT	1946826710
SNP_P4_60756_38981588	NC_021163.1	Ca_kabuli_chr04	38981588	GG	AA	1946826712
SNP_P4_60757_38982833	NC_021163.1	Ca_kabuli_chr04	38982833	TT	AA	1946826714
SNP_P4_60759_38984176	NC_021163.1	Ca_kabuli_chr04	38984176	TT	CC	1946826716
SNP_P4_60760_38984316	NC_021163.1	Ca_kabuli_chr04	38984316	TT	GG	1946826718
SNP_P4_60761_38987062	NC_021163.1	Ca_kabuli_chr04	38987062	CC	AA	1946826720
SNP_P4_60763_38989162	NC_021163.1	Ca_kabuli_chr04	38989162	GG	AA	1946826722
SNP_P4_60764_38989835	NC_021163.1	Ca_kabuli_chr04	38989835	AA	CC	1946826724
SNP_P4_60765_38989836	NC_021163.1	Ca_kabuli_chr04	38989836	CC	TT	1946826726
SNP_P4_60766_38990458	NC_021163.1	Ca_kabuli_chr04	38990458	CC	TT	1946826729
SNP_P4_60767_38990468	NC_021163.1	Ca_kabuli_chr04	38990468	AA	GG	1946826731
SNP_P4_60768_38991212	NC_021163.1	Ca_kabuli_chr04	38991212	CC	GG	1946826733
SNP_P4_60769_38991218	NC_021163.1	Ca_kabuli_chr04	38991218	GG	CC	1946826735
SNP_P4_60770_38991824	NC_021163.1	Ca_kabuli_chr04	38991824	CC	AA	1946826737
SNP_P4_60771_38992553	NC_021163.1	Ca_kabuli_chr04	38992553	AA	GG	1946826739
SNP_P4_60772_38993829	NC_021163.1	Ca_kabuli_chr04	38993829	AA	GG	1946826741
SNP_P4_60774_38994594	NC_021163.1	Ca_kabuli_chr04	38994594	AA	GG	1946826743
SNP_P4_60776_38995474	NC_021163.1	Ca_kabuli_chr04	38995474	AA	CC	1946826745
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SNP_P4_60778_38995504	NC_021163.1	Ca_kabuli_chr04	38995504	TT	GG	1946826749
SNP_P4_60779_38996465	NC_021163.1	Ca_kabuli_chr04	38996465	TT	AA	1946826751
SNP_P4_60780_38996469	NC_021163.1	Ca_kabuli_chr04	38996469	GG	TT	1946826753
SNP_P4_60781_38996478	NC_021163.1	Ca_kabuli_chr04	38996478	TT	CC	1946826755
SNP_P4_60782_38997309	NC_021163.1	Ca_kabuli_chr04	38997309	AA	TT	1946826757
SNP_P4_60784_38997902	NC_021163.1	Ca_kabuli_chr04	38997902	GG	AA	1946826759
SNP_P4_60785_38998096	NC_021163.1	Ca_kabuli_chr04	38998096	GG	AA	1946826761
SNP_P4_60786_38998189	NC_021163.1	Ca_kabuli_chr04	38998189	GG	AA	1946826763
SNP_P4_60787_39000675	NC_021163.1	Ca_kabuli_chr04	39000675	AA	TT	1946826765
SNP_P4_60788_39000846	NC_021163.1	Ca_kabuli_chr04	39000846	TT	CC	1946826767
SNP_P4_60789_39000899	NC_021163.1	Ca_kabuli_chr04	39000899	CC	TT	1946826769
SNP_P4_60790_39001755	NC_021163.1	Ca_kabuli_chr04	39001755	AA	GG	1946826771
SNP_P4_60792_39001862	NC_021163.1	Ca_kabuli_chr04	39001862	CC	AA	1946826773
SNP_P4_60794_39002834	NC_021163.1	Ca_kabuli_chr04	39002834	TT	AA	1946826775
SNP_P4_60795_39002840	NC_021163.1	Ca_kabuli_chr04	39002840	AA	GG	1946826776
SNP_P4_60796_39003052	NC_021163.1	Ca_kabuli_chr04	39003052	AA	GG	1946826777
SNP_P4_60797_39003112	NC_021163.1	Ca_kabuli_chr04	39003112	GG	AA	1946826778
SNP_P4_60798_39003140	NC_021163.1	Ca_kabuli_chr04	39003140	TT	CC	1946826779
SNP_P4_60799_39003183	NC_021163.1	Ca_kabuli_chr04	39003183	AA	TT	1946826781
SNP_P4_60800_39003199	NC_021163.1	Ca_kabuli_chr04	39003199	AA	GG	1946826783
SNP_P4_60801_39003219	NC_021163.1	Ca_kabuli_chr04	39003219	GG	TT	1946826785

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_60803_39004430	NC_021163.1	Ca_kabuli_chr04	39004430	AA	GG	1946826789
SNP_P4_60804_39004519	NC_021163.1	Ca_kabuli_chr04	39004519	CC	TT	1946826791
SNP_P4_60805_39004534	NC_021163.1	Ca_kabuli_chr04	39004534	CC	TT	1946826793
SNP_P4_60806_39006695	NC_021163.1	Ca_kabuli_chr04	39006695	TT	GG	1946826795
SNP_P4_60807_39006790	NC_021163.1	Ca_kabuli_chr04	39006790	AA	TT	1946826797
SNP_P4_60808_39006817	NC_021163.1	Ca_kabuli_chr04	39006817	GG	AA	1946826799
SNP_P4_60809_39006822	NC_021163.1	Ca_kabuli_chr04	39006822	TT	AA	1946826801
SNP_P4_60810_39007083	NC_021163.1	Ca_kabuli_chr04	39007083	AA	CC	1946826803
SNP_P4_60811_39009644	NC_021163.1	Ca_kabuli_chr04	39009644	AA	TT	1946826805
SNP_P4_60812_39009690	NC_021163.1	Ca_kabuli_chr04	39009690	CC	AA	1946826807
SNP_P4_60813_39009905	NC_021163.1	Ca_kabuli_chr04	39009905	CC	TT	1946826809
SNP_P4_60814_39010677	NC_021163.1	Ca_kabuli_chr04	39010677	TT	CC	1946826811
SNP_P4_60815_39010897	NC_021163.1	Ca_kabuli_chr04	39010897	CC	TT	1946826814
SNP_P4_60816_39010923	NC_021163.1	Ca_kabuli_chr04	39010923	TT	CC	1946826816
SNP_P4_60817_39010928	NC_021163.1	Ca_kabuli_chr04	39010928	AA	TT	1946826818
SNP_P4_60818_39010937	NC_021163.1	Ca_kabuli_chr04	39010937	GG	AA	1946826820
SNP_P4_60819_39011016	NC_021163.1	Ca_kabuli_chr04	39011016	CC	TT	1946826822
SNP_P4_60820_39011225	NC_021163.1	Ca_kabuli_chr04	39011225	AA	GG	1946826824
SNP_P4_60821_39011230	NC_021163.1	Ca_kabuli_chr04	39011230	AA	GG	1946826826
SNP_P4_60822_39011245	NC_021163.1	Ca_kabuli_chr04	39011245	AA	CC	1946826828
SNP_P4_60823_39011331	NC_021163.1	Ca_kabuli_chr04	39011331	TT	CC	1946826830
SNP_P4_60824_39011386	NC_021163.1	Ca_kabuli_chr04	39011386	TT	CC	1946826832
SNP_P4_60825_39011615	NC_021163.1	Ca_kabuli_chr04	39011615	AA	TT	1946826834
SNP_P4_60826_39013190	NC_021163.1	Ca_kabuli_chr04	39013190	TT	GG	1946826836
SNP_P4_60827_39013251	NC_021163.1	Ca_kabuli_chr04	39013251	CC	TT	1946826838
SNP_P4_60829_39015004	NC_021163.1	Ca_kabuli_chr04	39015004	AA	CC	1946826840
SNP_P4_60830_39015577	NC_021163.1	Ca_kabuli_chr04	39015577	AA	TT	1946826842
SNP_P4_60831_39015810	NC_021163.1	Ca_kabuli_chr04	39015810	TT	CC	1946826844
SNP_P4_60832_39015849	NC_021163.1	Ca_kabuli_chr04	39015849	AA	TT	1946826846
SNP_P4_60833_39015853	NC_021163.1	Ca_kabuli_chr04	39015853	TT	AA	1946826848
SNP_P4_60834_39015859	NC_021163.1	Ca_kabuli_chr04	39015859	GG	TT	1946826850
SNP_P4_60835_39015865	NC_021163.1	Ca_kabuli_chr04	39015865	TT	AA	1946826852
SNP_P4_60836_39016616	NC_021163.1	Ca_kabuli_chr04	39016616	AA	GG	1946826854
SNP_P4_60837_39016780	NC_021163.1	Ca_kabuli_chr04	39016780	TT	CC	1946826856
SNP_P4_60839_39017168	NC_021163.1	Ca_kabuli_chr04	39017168	AA	GG	1946826859
SNP_P4_60840_39017774	NC_021163.1	Ca_kabuli_chr04	39017774	TT	CC	1946826861
SNP_P4_60841_39017777	NC_021163.1	Ca_kabuli_chr04	39017777	CC	GG	1946826863
SNP_P4_60842_39017958	NC_021163.1	Ca_kabuli_chr04	39017958	CC	AA	1946826865
SNP_P4_60843_39018610	NC_021163.1	Ca_kabuli_chr04	39018610	AA	TT	1946826867
SNP_P4_60844_39018620	NC_021163.1	Ca_kabuli_chr04	39018620	CC	TT	1946826869
SNP_P4_60845_39018797	NC_021163.1	Ca_kabuli_chr04	39018797	GG	TT	1946826871

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_60847_39019432	NC_021163.1	Ca_kabuli_chr04	39019432	AA	TT	1946826875
SNP_P4_60850_39023630	NC_021163.1	Ca_kabuli_chr04	39023630	AA	TT	1946826877
SNP_P4_60851_39025173	NC_021163.1	Ca_kabuli_chr04	39025173	AA	GG	1946826879
SNP_P4_60852_39025209	NC_021163.1	Ca_kabuli_chr04	39025209	AA	CC	1946826881
SNP_P4_60853_39026088	NC_021163.1	Ca_kabuli_chr04	39026088	CC	TT	1946826883
SNP_P4_60854_39026569	NC_021163.1	Ca_kabuli_chr04	39026569	AA	GG	1946826885
SNP_P4_60855_39026855	NC_021163.1	Ca_kabuli_chr04	39026855	TT	CC	1946826887
SNP_P4_60856_39026956	NC_021163.1	Ca_kabuli_chr04	39026956	CC	AA	1946826889
SNP_P4_60858_39027962	NC_021163.1	Ca_kabuli_chr04	39027962	TT	CC	1946826891
SNP_P4_60859_39028164	NC_021163.1	Ca_kabuli_chr04	39028164	AA	GG	1946826893
SNP_P4_60860_39028190	NC_021163.1	Ca_kabuli_chr04	39028190	TT	CC	1946826895
SNP_P4_60861_39028198	NC_021163.1	Ca_kabuli_chr04	39028198	CC	AA	1946826897
SNP_P4_60862_39028225	NC_021163.1	Ca_kabuli_chr04	39028225	GG	AA	1946826899
SNP_P4_60863_39029231	NC_021163.1	Ca_kabuli_chr04	39029231	AA	GG	1946826901
SNP_P4_60864_39029307	NC_021163.1	Ca_kabuli_chr04	39029307	CC	TT	1946826903
SNP_P4_60865_39029451	NC_021163.1	Ca_kabuli_chr04	39029451	TT	CC	1946826905
SNP_P4_60866_39029533	NC_021163.1	Ca_kabuli_chr04	39029533	GG	CC	1946826907
SNP_P4_60867_39030097	NC_021163.1	Ca_kabuli_chr04	39030097	AA	TT	1946826909
SNP_P4_60868_39030409	NC_021163.1	Ca_kabuli_chr04	39030409	GG	CC	1946826911
SNP_P4_60869_39030485	NC_021163.1	Ca_kabuli_chr04	39030485	GG	AA	1946826913
SNP_P4_60870_39030749	NC_021163.1	Ca_kabuli_chr04	39030749	TT	GG	1946826915
SNP_P4_60871_39031208	NC_021163.1	Ca_kabuli_chr04	39031208	TT	GG	1946826917
SNP_P4_60872_39031823	NC_021163.1	Ca_kabuli_chr04	39031823	AA	GG	1946826919
SNP_P4_60874_39033435	NC_021163.1	Ca_kabuli_chr04	39033435	TT	CC	1946826921
SNP_P4_60875_39034789	NC_021163.1	Ca_kabuli_chr04	39034789	GG	TT	1946826923
SNP_P4_60877_39034960	NC_021163.1	Ca_kabuli_chr04	39034960	CC	TT	1946826925
SNP_P4_60878_39034983	NC_021163.1	Ca_kabuli_chr04	39034983	TT	CC	1946826927
SNP_P4_60879_39036213	NC_021163.1	Ca_kabuli_chr04	39036213	TT	AA	1946826929
SNP_P4_60880_39036835	NC_021163.1	Ca_kabuli_chr04	39036835	CC	TT	1946826931
SNP_P4_60882_39038708	NC_021163.1	Ca_kabuli_chr04	39038708	AA	GG	1946826933
SNP_P4_60883_39039615	NC_021163.1	Ca_kabuli_chr04	39039615	TT	CC	1946826935
SNP_P4_60884_39039796	NC_021163.1	Ca_kabuli_chr04	39039796	GG	AA	1946826937
SNP_P4_60885_39039800	NC_021163.1	Ca_kabuli_chr04	39039800	TT	GG	1946826939
SNP_P4_60886_39039804	NC_021163.1	Ca_kabuli_chr04	39039804	TT	AA	1946826941
SNP_P4_60887_39039884	NC_021163.1	Ca_kabuli_chr04	39039884	CC	TT	1946826943
SNP_P4_60888_39042938	NC_021163.1	Ca_kabuli_chr04	39042938	GG	TT	1946826945
SNP_P4_60889_39043179	NC_021163.1	Ca_kabuli_chr04	39043179	TT	CC	1946826947
SNP_P4_60890_39044457	NC_021163.1	Ca_kabuli_chr04	39044457	TT	CC	1946826950
SNP_P4_60891_39044478	NC_021163.1	Ca_kabuli_chr04	39044478	GG	AA	1946826952
SNP_P4_60892_39045263	NC_021163.1	Ca_kabuli_chr04	39045263	AA	GG	1946826954
SNP_P4_60893_39047906	NC_021163.1	Ca_kabuli_chr04	39047906	CC	AA	1946826956

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_60895_39050889	NC_021163.1	Ca_kabuli_chr04	39050889	TT	GG	1946826960
SNP_P4_60897_39051171	NC_021163.1	Ca_kabuli_chr04	39051171	GG	CC	1946826962
SNP_P4_60898_39051203	NC_021163.1	Ca_kabuli_chr04	39051203	AA	GG	1946826964
SNP_P4_60899_39051218	NC_021163.1	Ca_kabuli_chr04	39051218	GG	TT	1946826966
SNP_P4_60900_39051226	NC_021163.1	Ca_kabuli_chr04	39051226	TT	CC	1946826968
SNP_P4_60901_39051245	NC_021163.1	Ca_kabuli_chr04	39051245	TT	CC	1946826970
SNP_P4_60902_39051416	NC_021163.1	Ca_kabuli_chr04	39051416	AA	GG	1946826972
SNP_P4_60904_39053582	NC_021163.1	Ca_kabuli_chr04	39053582	AA	GG	1946826974
SNP_P4_60905_39053728	NC_021163.1	Ca_kabuli_chr04	39053728	AA	CC	1946826976
SNP_P4_60906_39053982	NC_021163.1	Ca_kabuli_chr04	39053982	CC	TT	1946826978
SNP_P4_60907_39054045	NC_021163.1	Ca_kabuli_chr04	39054045	CC	TT	1946826980
SNP_P4_60908_39054201	NC_021163.1	Ca_kabuli_chr04	39054201	TT	CC	1946826982
SNP_P4_60909_39054380	NC_021163.1	Ca_kabuli_chr04	39054380	AA	GG	1946826984
SNP_P4_60912_39057473	NC_021163.1	Ca_kabuli_chr04	39057473	AA	GG	1946826986
SNP_P4_60913_39057861	NC_021163.1	Ca_kabuli_chr04	39057861	AA	GG	1946826988
SNP_P4_60914_39057918	NC_021163.1	Ca_kabuli_chr04	39057918	GG	CC	1946826990
SNP_P4_60915_39061689	NC_021163.1	Ca_kabuli_chr04	39061689	GG	AA	1946826991
SNP_P4_60916_39061692	NC_021163.1	Ca_kabuli_chr04	39061692	AA	GG	1946826993
SNP_P4_60917_39061746	NC_021163.1	Ca_kabuli_chr04	39061746	GG	TT	1946826995
SNP_P4_60918_39062288	NC_021163.1	Ca_kabuli_chr04	39062288	TT	AA	1946826997
SNP_P4_60919_39062435	NC_021163.1	Ca_kabuli_chr04	39062435	TT	AA	1946826999
SNP_P4_60921_39063055	NC_021163.1	Ca_kabuli_chr04	39063055	TT	CC	1946827001
SNP_P4_60922_39063059	NC_021163.1	Ca_kabuli_chr04	39063059	TT	AA	1946827003
SNP_P4_60923_39063137	NC_021163.1	Ca_kabuli_chr04	39063137	TT	CC	1946827006
SNP_P4_60924_39063266	NC_021163.1	Ca_kabuli_chr04	39063266	CC	AA	1946827008
SNP_P4_60925_39063369	NC_021163.1	Ca_kabuli_chr04	39063369	TT	AA	1946827010
SNP_P4_60926_39063651	NC_021163.1	Ca_kabuli_chr04	39063651	AA	CC	1946827012
SNP_P4_60927_39063696	NC_021163.1	Ca_kabuli_chr04	39063696	CC	AA	1946827014
SNP_P4_60928_39063710	NC_021163.1	Ca_kabuli_chr04	39063710	GG	AA	1946827016
SNP_P4_60929_39063769	NC_021163.1	Ca_kabuli_chr04	39063769	AA	GG	1946827018
SNP_P4_60930_39064677	NC_021163.1	Ca_kabuli_chr04	39064677	GG	AA	1946827020
SNP_P4_60931_39064682	NC_021163.1	Ca_kabuli_chr04	39064682	CC	TT	1946827022
SNP_P4_60932_39065479	NC_021163.1	Ca_kabuli_chr04	39065479	TT	CC	1946827024
SNP_P4_60933_39067347	NC_021163.1	Ca_kabuli_chr04	39067347	TT	CC	1946827026
SNP_P4_60934_39072793	NC_021163.1	Ca_kabuli_chr04	39072793	CC	TT	1946827028
SNP_P4_60935_39072949	NC_021163.1	Ca_kabuli_chr04	39072949	TT	GG	1946827030
SNP_P4_60936_39072954	NC_021163.1	Ca_kabuli_chr04	39072954	GG	AA	1946827032
SNP_P4_60937_39074502	NC_021163.1	Ca_kabuli_chr04	39074502	CC	TT	1946827034
SNP_P4_60938_39074559	NC_021163.1	Ca_kabuli_chr04	39074559	GG	AA	1946827036
SNP_P4_60940_39074949	NC_021163.1	Ca_kabuli_chr04	39074949	GG	TT	1946827038
SNP_P4_60941_39074993	NC_021163.1	Ca_kabuli_chr04	39074993	GG	TT	1946827040

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_60943_39075436	NC_021163.1	Ca_kabuli_chr04	39075436	CC	TT	1946827044
SNP_P4_60944_39075461	NC_021163.1	Ca_kabuli_chr04	39075461	AA	GG	1946827046
SNP_P4_60945_39075549	NC_021163.1	Ca_kabuli_chr04	39075549	GG	TT	1946827048
SNP_P4_60946_39075620	NC_021163.1	Ca_kabuli_chr04	39075620	GG	AA	1946827050
SNP_P4_60947_39076190	NC_021163.1	Ca_kabuli_chr04	39076190	GG	AA	1946827052
SNP_P4_60948_39076215	NC_021163.1	Ca_kabuli_chr04	39076215	TT	GG	1946827054
SNP_P4_60949_39076729	NC_021163.1	Ca_kabuli_chr04	39076729	AA	GG	1946827056
SNP_P4_60950_39077179	NC_021163.1	Ca_kabuli_chr04	39077179	GG	AA	1946827058
SNP_P4_60951_39077189	NC_021163.1	Ca_kabuli_chr04	39077189	TT	CC	1946827060
SNP_P4_60952_39077193	NC_021163.1	Ca_kabuli_chr04	39077193	CC	TT	1946827062
SNP_P4_60953_39077688	NC_021163.1	Ca_kabuli_chr04	39077688	AA	GG	1946827064
SNP_P4_60954_39078090	NC_021163.1	Ca_kabuli_chr04	39078090	AA	GG	1946827066
SNP_P4_60956_39078174	NC_021163.1	Ca_kabuli_chr04	39078174	AA	CC	1946827068
SNP_P4_60957_39078467	NC_021163.1	Ca_kabuli_chr04	39078467	GG	AA	1946827070
SNP_P4_60958_39078469	NC_021163.1	Ca_kabuli_chr04	39078469	CC	TT	1946827072
SNP_P4_60960_39079003	NC_021163.1	Ca_kabuli_chr04	39079003	AA	CC	1946827074
SNP_P4_60962_39079834	NC_021163.1	Ca_kabuli_chr04	39079834	GG	AA	1946827076
SNP_P4_60963_39082828	NC_021163.1	Ca_kabuli_chr04	39082828	AA	TT	1946827078
SNP_P4_60964_39083123	NC_021163.1	Ca_kabuli_chr04	39083123	TT	CC	1946827080
SNP_P4_60965_39083824	NC_021163.1	Ca_kabuli_chr04	39083824	AA	GG	1946827082
SNP_P4_60966_39085821	NC_021163.1	Ca_kabuli_chr04	39085821	CC	AA	1946827084
SNP_P4_60967_39086017	NC_021163.1	Ca_kabuli_chr04	39086017	TT	AA	1946827086
SNP_P4_60968_39086345	NC_021163.1	Ca_kabuli_chr04	39086345	CC	AA	1946827088
SNP_P4_60969_39086700	NC_021163.1	Ca_kabuli_chr04	39086700	GG	AA	1946827090
SNP_P4_60970_39086712	NC_021163.1	Ca_kabuli_chr04	39086712	AA	GG	1946827092
SNP_P4_60971_39093096	NC_021163.1	Ca_kabuli_chr04	39093096	AA	CC	1946827094
SNP_P4_60972_39098835	NC_021163.1	Ca_kabuli_chr04	39098835	CC	AA	1946827096
SNP_P4_60973_39101164	NC_021163.1	Ca_kabuli_chr04	39101164	AA	TT	1946827098
SNP_P4_60974_39124789	NC_021163.1	Ca_kabuli_chr04	39124789	AA	TT	1946827100
SNP_P4_60975_39131022	NC_021163.1	Ca_kabuli_chr04	39131022	TT	CC	1946827102
SNP_P4_60976_39132695	NC_021163.1	Ca_kabuli_chr04	39132695	GG	AA	1946827104
SNP_P4_60977_39153741	NC_021163.1	Ca_kabuli_chr04	39153741	TT	AA	1946827106
SNP_P4_60980_39177690	NC_021163.1	Ca_kabuli_chr04	39177690	GG	AA	1946827108
SNP_P4_60981_39183749	NC_021163.1	Ca_kabuli_chr04	39183749	GG	TT	1946827110
SNP_P4_60983_39189724	NC_021163.1	Ca_kabuli_chr04	39189724	TT	CC	1946827112
SNP_P4_60984_39193971	NC_021163.1	Ca_kabuli_chr04	39193971	CC	AA	1946827114
SNP_P4_60985_39194796	NC_021163.1	Ca_kabuli_chr04	39194796	CC	AA	1946827116
SNP_P4_60986_39221372	NC_021163.1	Ca_kabuli_chr04	39221372	CC	TT	1946827118
SNP_P4_60989_39291392	NC_021163.1	Ca_kabuli_chr04	39291392	GG	AA	1946827120
SNP_P4_60990_39291434	NC_021163.1	Ca_kabuli_chr04	39291434	GG	CC	1946827122
SNP_P4_60991_39298454	NC_021163.1	Ca_kabuli_chr04	39298454	CC	AA	1946827124

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_60993_39298599	NC_021163.1	Ca_kabuli_chr04	39298599	AA	GG	1946827128
SNP_P4_60994_39298732	NC_021163.1	Ca_kabuli_chr04	39298732	AA	GG	1946827130
SNP_P4_60995_39298762	NC_021163.1	Ca_kabuli_chr04	39298762	AA	TT	1946827132
SNP_P4_60996_39298786	NC_021163.1	Ca_kabuli_chr04	39298786	AA	CC	1946827134
SNP_P4_60997_39299025	NC_021163.1	Ca_kabuli_chr04	39299025	GG	CC	1946827136
SNP_P4_60999_39299050	NC_021163.1	Ca_kabuli_chr04	39299050	AA	GG	1946827138
SNP_P4_61000_39315056	NC_021163.1	Ca_kabuli_chr04	39315056	AA	GG	1946827140
SNP_P4_61001_39331079	NC_021163.1	Ca_kabuli_chr04	39331079	TT	CC	1946827142
SNP_P4_61002_39331811	NC_021163.1	Ca_kabuli_chr04	39331811	AA	GG	1946827144
SNP_P4_61004_39378568	NC_021163.1	Ca_kabuli_chr04	39378568	AA	GG	1946827146
SNP_P4_61005_39392913	NC_021163.1	Ca_kabuli_chr04	39392913	GG	AA	1946827148
SNP_P4_61007_39393308	NC_021163.1	Ca_kabuli_chr04	39393308	TT	AA	1946827150
SNP_P4_61008_39393329	NC_021163.1	Ca_kabuli_chr04	39393329	AA	GG	1946827152
SNP_P4_61009_39398492	NC_021163.1	Ca_kabuli_chr04	39398492	GG	AA	1946827154
SNP_P4_61010_39640454	NC_021163.1	Ca_kabuli_chr04	39640454	TT	GG	1946827156
SNP_P4_61011_39640483	NC_021163.1	Ca_kabuli_chr04	39640483	CC	TT	1946827158
SNP_P4_61012_39641833	NC_021163.1	Ca_kabuli_chr04	39641833	AA	TT	1946827160
SNP_P4_61013_39641881	NC_021163.1	Ca_kabuli_chr04	39641881	GG	AA	1946827162
SNP_P4_61017_39643114	NC_021163.1	Ca_kabuli_chr04	39643114	CC	AA	1946827164
SNP_P4_61018_39643318	NC_021163.1	Ca_kabuli_chr04	39643318	AA	GG	1946827166
SNP_P4_61019_39644394	NC_021163.1	Ca_kabuli_chr04	39644394	GG	AA	1946827168
SNP_P4_61020_39644471	NC_021163.1	Ca_kabuli_chr04	39644471	TT	CC	1946827170
SNP_P4_61021_39644482	NC_021163.1	Ca_kabuli_chr04	39644482	AA	GG	1946827172
SNP_P4_61022_39644484	NC_021163.1	Ca_kabuli_chr04	39644484	AA	GG	1946827174
SNP_P4_61023_39644511	NC_021163.1	Ca_kabuli_chr04	39644511	AA	GG	1946827177
SNP_P4_61025_39644551	NC_021163.1	Ca_kabuli_chr04	39644551	CC	TT	1946827179
SNP_P4_61026_39644845	NC_021163.1	Ca_kabuli_chr04	39644845	AA	TT	1946827181
SNP_P4_61027_39644867	NC_021163.1	Ca_kabuli_chr04	39644867	TT	CC	1946827183
SNP_P4_61028_39647285	NC_021163.1	Ca_kabuli_chr04	39647285	CC	TT	1946827185
SNP_P4_61029_39688910	NC_021163.1	Ca_kabuli_chr04	39688910	AA	CC	1946827187
SNP_P4_61030_39689095	NC_021163.1	Ca_kabuli_chr04	39689095	CC	AA	1946827190
SNP_P4_61032_39689210	NC_021163.1	Ca_kabuli_chr04	39689210	GG	AA	1946827192
SNP_P4_61033_39689278	NC_021163.1	Ca_kabuli_chr04	39689278	AA	CC	1946827194
SNP_P4_61034_39689287	NC_021163.1	Ca_kabuli_chr04	39689287	TT	GG	1946827196
SNP_P4_61035_39689301	NC_021163.1	Ca_kabuli_chr04	39689301	AA	CC	1946827198
SNP_P4_61036_39689308	NC_021163.1	Ca_kabuli_chr04	39689308	AA	GG	1946827200
SNP_P4_61037_39689320	NC_021163.1	Ca_kabuli_chr04	39689320	TT	CC	1946827202
SNP_P4_61038_39689349	NC_021163.1	Ca_kabuli_chr04	39689349	GG	AA	1946827204
SNP_P4_61039_39689386	NC_021163.1	Ca_kabuli_chr04	39689386	TT	AA	1946827206
SNP_P4_61040_39691197	NC_021163.1	Ca_kabuli_chr04	39691197	TT	CC	1946827209
SNP_P4_61041_39691217	NC_021163.1	Ca_kabuli_chr04	39691217	TT	CC	1946827211

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_61043_39691539	NC_021163.1	Ca_kabuli_chr04	39691539	TT	AA	1946827217
SNP_P4_61044_39691540	NC_021163.1	Ca_kabuli_chr04	39691540	AA	GG	1946827219
SNP_P4_61045_39704740	NC_021163.1	Ca_kabuli_chr04	39704740	AA	TT	1946827222
SNP_P4_61046_39745870	NC_021163.1	Ca_kabuli_chr04	39745870	GG	TT	1946827225
SNP_P4_61047_39759069	NC_021163.1	Ca_kabuli_chr04	39759069	TT	AA	1946827228
SNP_P4_61048_39762732	NC_021163.1	Ca_kabuli_chr04	39762732	GG	AA	1946827230
SNP_P4_61049_39768886	NC_021163.1	Ca_kabuli_chr04	39768886	TT	CC	1946827233
SNP_P4_61051_39832250	NC_021163.1	Ca_kabuli_chr04	39832250	TT	AA	1946827235
SNP_P4_61052_39863278	NC_021163.1	Ca_kabuli_chr04	39863278	CC	TT	1946827238
SNP_P4_61053_39876640	NC_021163.1	Ca_kabuli_chr04	39876640	AA	CC	1946827240
SNP_P4_61054_39882838	NC_021163.1	Ca_kabuli_chr04	39882838	GG	AA	1946827243
SNP_P4_61055_39889358	NC_021163.1	Ca_kabuli_chr04	39889358	GG	AA	1946827246
SNP_P4_61056_39889359	NC_021163.1	Ca_kabuli_chr04	39889359	AA	GG	1946827248
SNP_P4_61057_39889371	NC_021163.1	Ca_kabuli_chr04	39889371	TT	CC	1946827251
SNP_P4_61058_39889383	NC_021163.1	Ca_kabuli_chr04	39889383	TT	CC	1946827253
SNP_P4_61059_39889399	NC_021163.1	Ca_kabuli_chr04	39889399	AA	CC	1946827255
SNP_P4_61060_39889413	NC_021163.1	Ca_kabuli_chr04	39889413	AA	GG	1946827257
SNP_P4_61061_39889447	NC_021163.1	Ca_kabuli_chr04	39889447	GG	AA	1946827259
SNP_P4_61062_39889473	NC_021163.1	Ca_kabuli_chr04	39889473	GG	AA	1946827261
SNP_P4_61063_39889515	NC_021163.1	Ca_kabuli_chr04	39889515	AA	TT	1946827263
SNP_P4_61064_39889534	NC_021163.1	Ca_kabuli_chr04	39889534	GG	AA	1946827265
SNP_P4_61065_39892228	NC_021163.1	Ca_kabuli_chr04	39892228	AA	CC	1946827268
SNP_P4_61066_39892577	NC_021163.1	Ca_kabuli_chr04	39892577	TT	CC	1946827270
SNP_P4_61067_39898498	NC_021163.1	Ca_kabuli_chr04	39898498	AA	TT	1946827272
SNP_P4_61068_39903408	NC_021163.1	Ca_kabuli_chr04	39903408	AA	TT	1946827274
SNP_P4_61069_39903434	NC_021163.1	Ca_kabuli_chr04	39903434	CC	TT	1946827276
SNP_P4_61070_39903772	NC_021163.1	Ca_kabuli_chr04	39903772	TT	CC	1946827278
SNP_P4_61071_39907464	NC_021163.1	Ca_kabuli_chr04	39907464	AA	CC	1946827280
SNP_P4_61072_39907474	NC_021163.1	Ca_kabuli_chr04	39907474	AA	CC	1946827282
SNP_P4_61073_39946111	NC_021163.1	Ca_kabuli_chr04	39946111	TT	CC	1946827284
SNP_P4_61074_39986657	NC_021163.1	Ca_kabuli_chr04	39986657	AA	GG	1946827286
SNP_P4_61075_39986658	NC_021163.1	Ca_kabuli_chr04	39986658	GG	AA	1946827288
SNP_P4_61076_39986690	NC_021163.1	Ca_kabuli_chr04	39986690	AA	TT	1946827290
SNP_P4_61077_39986693	NC_021163.1	Ca_kabuli_chr04	39986693	GG	CC	1946827292
SNP_P4_61078_39986740	NC_021163.1	Ca_kabuli_chr04	39986740	AA	GG	1946827294
SNP_P4_61079_39986757	NC_021163.1	Ca_kabuli_chr04	39986757	CC	TT	1946827296
SNP_P4_61080_39986759	NC_021163.1	Ca_kabuli_chr04	39986759	GG	AA	1946827299
SNP_P4_61081_39986779	NC_021163.1	Ca_kabuli_chr04	39986779	AA	TT	1946827301
SNP_P4_61082_39986965	NC_021163.1	Ca_kabuli_chr04	39986965	TT	CC	1946827303
SNP_P4_61083_39987165	NC_021163.1	Ca_kabuli_chr04	39987165	TT	CC	1946827305
SNP_P4_61084_39987259	NC_021163.1	Ca_kabuli_chr04	39987259	AA	CC	1946827307

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_61087_39994029	NC_021163.1	Ca_kabuli_chr04	39994029	GG	AA	1946827311
SNP_P4_61088_40022359	NC_021163.1	Ca_kabuli_chr04	40022359	TT	AA	1946827313
SNP_P4_61090_40059090	NC_021163.1	Ca_kabuli_chr04	40059090	AA	GG	1946827315
SNP_P4_61091_40072050	NC_021163.1	Ca_kabuli_chr04	40072050	AA	CC	1946827317
SNP_P4_61092_40095848	NC_021163.1	Ca_kabuli_chr04	40095848	TT	CC	1946827319
SNP_P4_61093_40096117	NC_021163.1	Ca_kabuli_chr04	40096117	TT	AA	1946827321
SNP_P4_61095_40114557	NC_021163.1	Ca_kabuli_chr04	40114557	TT	CC	1946827323
SNP_P4_61096_40114572	NC_021163.1	Ca_kabuli_chr04	40114572	AA	GG	1946827325
SNP_P4_61097_40114613	NC_021163.1	Ca_kabuli_chr04	40114613	AA	GG	1946827327
SNP_P4_61098_40114919	NC_021163.1	Ca_kabuli_chr04	40114919	GG	TT	1946827329
SNP_P4_61099_40131350	NC_021163.1	Ca_kabuli_chr04	40131350	TT	CC	1946827331
SNP_P4_61100_40139389	NC_021163.1	Ca_kabuli_chr04	40139389	AA	CC	1946827334
SNP_P4_61101_40142892	NC_021163.1	Ca_kabuli_chr04	40142892	AA	TT	1946827336
SNP_P4_61103_40171953	NC_021163.1	Ca_kabuli_chr04	40171953	GG	TT	1946827338
SNP_P4_61104_40171978	NC_021163.1	Ca_kabuli_chr04	40171978	TT	CC	1946827340
SNP_P4_61105_40182331	NC_021163.1	Ca_kabuli_chr04	40182331	AA	CC	1946827342
SNP_P4_61106_40241065	NC_021163.1	Ca_kabuli_chr04	40241065	GG	AA	1946827344
SNP_P4_61108_40250486	NC_021163.1	Ca_kabuli_chr04	40250486	AA	GG	1946827346
SNP_P4_61111_40320780	NC_021163.1	Ca_kabuli_chr04	40320780	TT	GG	1946827348
SNP_P4_61112_40320783	NC_021163.1	Ca_kabuli_chr04	40320783	TT	GG	1946827350
SNP_P4_61113_40326984	NC_021163.1	Ca_kabuli_chr04	40326984	CC	GG	1946827352
SNP_P4_61114_40334836	NC_021163.1	Ca_kabuli_chr04	40334836	GG	AA	1946827354
SNP_P4_61115_40334857	NC_021163.1	Ca_kabuli_chr04	40334857	GG	AA	1946827356
SNP_P4_61116_40334872	NC_021163.1	Ca_kabuli_chr04	40334872	AA	TT	1946827358
SNP_P4_61117_40334906	NC_021163.1	Ca_kabuli_chr04	40334906	AA	GG	1946827360
SNP_P4_61118_40334922	NC_021163.1	Ca_kabuli_chr04	40334922	TT	CC	1946827362
SNP_P4_61119_40335048	NC_021163.1	Ca_kabuli_chr04	40335048	AA	GG	1946827364
SNP_P4_61120_40335095	NC_021163.1	Ca_kabuli_chr04	40335095	AA	GG	1946827366
SNP_P4_61121_40335178	NC_021163.1	Ca_kabuli_chr04	40335178	TT	CC	1946827368
SNP_P4_61122_40335291	NC_021163.1	Ca_kabuli_chr04	40335291	TT	CC	1946827370
SNP_P4_61123_40335297	NC_021163.1	Ca_kabuli_chr04	40335297	AA	CC	1946827372
SNP_P4_61124_40335317	NC_021163.1	Ca_kabuli_chr04	40335317	CC	AA	1946827374
SNP_P4_61125_40335340	NC_021163.1	Ca_kabuli_chr04	40335340	AA	GG	1946827376
SNP_P4_61126_40335348	NC_021163.1	Ca_kabuli_chr04	40335348	TT	GG	1946827378
SNP_P4_61127_40335430	NC_021163.1	Ca_kabuli_chr04	40335430	AA	GG	1946827380
SNP_P4_61128_40335438	NC_021163.1	Ca_kabuli_chr04	40335438	TT	CC	1946827382
SNP_P4_61129_40341846	NC_021163.1	Ca_kabuli_chr04	40341846	AA	TT	1946827385
SNP_P4_61130_40341864	NC_021163.1	Ca_kabuli_chr04	40341864	GG	AA	1946827387
SNP_P4_61131_40341905	NC_021163.1	Ca_kabuli_chr04	40341905	AA	GG	1946827389
SNP_P4_61132_40342350	NC_021163.1	Ca_kabuli_chr04	40342350	TT	AA	1946827391
SNP_P4_61133_40342351	NC_021163.1	Ca_kabuli_chr04	40342351	TT	AA	1946827393

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_61137_40354286	NC_021163.1	Ca_kabuli_chr04	40354286	AA	GG	1946827397
SNP_P4_61139_40425120	NC_021163.1	Ca_kabuli_chr04	40425120	CC	TT	1946827399
SNP_P4_61141_40461508	NC_021163.1	Ca_kabuli_chr04	40461508	AA	GG	1946827401
SNP_P4_61142_40473259	NC_021163.1	Ca_kabuli_chr04	40473259	CC	TT	1946827403
SNP_P4_61143_40478942	NC_021163.1	Ca_kabuli_chr04	40478942	TT	CC	1946827405
SNP_P4_61144_40479237	NC_021163.1	Ca_kabuli_chr04	40479237	TT	AA	1946827407
SNP_P4_61146_40481903	NC_021163.1	Ca_kabuli_chr04	40481903	CC	TT	1946827409
SNP_P4_61147_40482288	NC_021163.1	Ca_kabuli_chr04	40482288	TT	CC	1946827411
SNP_P4_61148_40482307	NC_021163.1	Ca_kabuli_chr04	40482307	TT	CC	1946827413
SNP_P4_61150_40483825	NC_021163.1	Ca_kabuli_chr04	40483825	AA	GG	1946827415
SNP_P4_61151_40483864	NC_021163.1	Ca_kabuli_chr04	40483864	AA	GG	1946827417
SNP_P4_61152_40484690	NC_021163.1	Ca_kabuli_chr04	40484690	GG	AA	1946827418
SNP_P4_61153_40484694	NC_021163.1	Ca_kabuli_chr04	40484694	AA	GG	1946827420
SNP_P4_61154_40485326	NC_021163.1	Ca_kabuli_chr04	40485326	GG	AA	1946827422
SNP_P4_61155_40486963	NC_021163.1	Ca_kabuli_chr04	40486963	TT	CC	1946827424
SNP_P4_61157_40487955	NC_021163.1	Ca_kabuli_chr04	40487955	GG	AA	1946827426
SNP_P4_61158_40488210	NC_021163.1	Ca_kabuli_chr04	40488210	TT	CC	1946827428
SNP_P4_61159_40488258	NC_021163.1	Ca_kabuli_chr04	40488258	AA	GG	1946827430
SNP_P4_61160_40488266	NC_021163.1	Ca_kabuli_chr04	40488266	AA	TT	1946827432
SNP_P4_61161_40488626	NC_021163.1	Ca_kabuli_chr04	40488626	GG	AA	1946827434
SNP_P4_61162_40489626	NC_021163.1	Ca_kabuli_chr04	40489626	AA	GG	1946827436
SNP_P4_61163_40489878	NC_021163.1	Ca_kabuli_chr04	40489878	GG	TT	1946827438
SNP_P4_61164_40491074	NC_021163.1	Ca_kabuli_chr04	40491074	GG	CC	1946827440
SNP_P4_61166_40491505	NC_021163.1	Ca_kabuli_chr04	40491505	AA	TT	1946827442
SNP_P4_61167_40491507	NC_021163.1	Ca_kabuli_chr04	40491507	GG	TT	1946827444
SNP_P4_61168_40491544	NC_021163.1	Ca_kabuli_chr04	40491544	AA	CC	1946827446
SNP_P4_61169_40491772	NC_021163.1	Ca_kabuli_chr04	40491772	GG	CC	1946827448
SNP_P4_61170_40492382	NC_021163.1	Ca_kabuli_chr04	40492382	TT	GG	1946827450
SNP_P4_61171_40492416	NC_021163.1	Ca_kabuli_chr04	40492416	CC	GG	1946827452
SNP_P4_61172_40492432	NC_021163.1	Ca_kabuli_chr04	40492432	AA	GG	1946827454
SNP_P4_61173_40493710	NC_021163.1	Ca_kabuli_chr04	40493710	AA	TT	1946827456
SNP_P4_61174_40493718	NC_021163.1	Ca_kabuli_chr04	40493718	TT	GG	1946827458
SNP_P4_61175_40493822	NC_021163.1	Ca_kabuli_chr04	40493822	TT	AA	1946827460
SNP_P4_61176_40493878	NC_021163.1	Ca_kabuli_chr04	40493878	GG	AA	1946827462
SNP_P4_61177_40493990	NC_021163.1	Ca_kabuli_chr04	40493990	CC	TT	1946827464
SNP_P4_61178_40493991	NC_021163.1	Ca_kabuli_chr04	40493991	TT	CC	1946827466
SNP_P4_61179_40493993	NC_021163.1	Ca_kabuli_chr04	40493993	AA	GG	1946827468
SNP_P4_61180_40494059	NC_021163.1	Ca_kabuli_chr04	40494059	GG	AA	1946827470
SNP_P4_61181_40494079	NC_021163.1	Ca_kabuli_chr04	40494079	AA	GG	1946827472
SNP_P4_61182_40494086	NC_021163.1	Ca_kabuli_chr04	40494086	TT	CC	1946827474
SNP_P4_61183_40495199	NC_021163.1	Ca_kabuli_chr04	40495199	CC	AA	1946827476

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_61185_40495769	NC_021163.1	Ca_kabuli_chr04	40495769	CC	TT	1946827479
SNP_P4_61186_40498901	NC_021163.1	Ca_kabuli_chr04	40498901	GG	AA	1946827481
SNP_P4_61188_40500748	NC_021163.1	Ca_kabuli_chr04	40500748	GG	TT	1946827483
SNP_P4_61189_40501012	NC_021163.1	Ca_kabuli_chr04	40501012	TT	AA	1946827485
SNP_P4_61190_40501014	NC_021163.1	Ca_kabuli_chr04	40501014	AA	CC	1946827487
SNP_P4_61191_40501854	NC_021163.1	Ca_kabuli_chr04	40501854	AA	TT	1946827489
SNP_P4_61192_40501894	NC_021163.1	Ca_kabuli_chr04	40501894	CC	TT	1946827491
SNP_P4_61193_40501920	NC_021163.1	Ca_kabuli_chr04	40501920	TT	GG	1946827493
SNP_P4_61194_40501921	NC_021163.1	Ca_kabuli_chr04	40501921	AA	GG	1946827495
SNP_P4_61195_40502132	NC_021163.1	Ca_kabuli_chr04	40502132	CC	TT	1946827497
SNP_P4_61196_40502141	NC_021163.1	Ca_kabuli_chr04	40502141	GG	TT	1946827499
SNP_P4_61197_40502155	NC_021163.1	Ca_kabuli_chr04	40502155	CC	TT	1946827501
SNP_P4_61198_40502168	NC_021163.1	Ca_kabuli_chr04	40502168	CC	GG	1946827503
SNP_P4_61200_40503765	NC_021163.1	Ca_kabuli_chr04	40503765	TT	CC	1946827505
SNP_P4_61201_40503817	NC_021163.1	Ca_kabuli_chr04	40503817	AA	GG	1946827507
SNP_P4_61202_40504128	NC_021163.1	Ca_kabuli_chr04	40504128	TT	CC	1946827508
SNP_P4_61203_40505113	NC_021163.1	Ca_kabuli_chr04	40505113	AA	GG	1946827510
SNP_P4_61204_40505461	NC_021163.1	Ca_kabuli_chr04	40505461	GG	AA	1946827512
SNP_P4_61205_40505473	NC_021163.1	Ca_kabuli_chr04	40505473	TT	AA	1946827514
SNP_P4_61206_40505609	NC_021163.1	Ca_kabuli_chr04	40505609	GG	AA	1946827516
SNP_P4_61207_40505851	NC_021163.1	Ca_kabuli_chr04	40505851	TT	GG	1946827518
SNP_P4_61208_40505900	NC_021163.1	Ca_kabuli_chr04	40505900	AA	TT	1946827520
SNP_P4_61210_40506570	NC_021163.1	Ca_kabuli_chr04	40506570	AA	TT	1946827522
SNP_P4_61211_40507219	NC_021163.1	Ca_kabuli_chr04	40507219	CC	TT	1946827524
SNP_P4_61212_40507523	NC_021163.1	Ca_kabuli_chr04	40507523	CC	TT	1946827526
SNP_P4_61213_40507537	NC_021163.1	Ca_kabuli_chr04	40507537	CC	TT	1946827528
SNP_P4_61214_40508078	NC_021163.1	Ca_kabuli_chr04	40508078	AA	GG	1946827530
SNP_P4_61215_40509437	NC_021163.1	Ca_kabuli_chr04	40509437	TT	CC	1946827532
SNP_P4_61216_40510763	NC_021163.1	Ca_kabuli_chr04	40510763	TT	CC	1946827534
SNP_P4_61217_40511837	NC_021163.1	Ca_kabuli_chr04	40511837	TT	CC	1946827536
SNP_P4_61218_40512122	NC_021163.1	Ca_kabuli_chr04	40512122	CC	AA	1946827538
SNP_P4_61219_40512456	NC_021163.1	Ca_kabuli_chr04	40512456	TT	GG	1946827540
SNP_P4_61220_40512646	NC_021163.1	Ca_kabuli_chr04	40512646	GG	TT	1946827542
SNP_P4_61221_40513733	NC_021163.1	Ca_kabuli_chr04	40513733	TT	CC	1946827544
SNP_P4_61222_40513928	NC_021163.1	Ca_kabuli_chr04	40513928	GG	AA	1946827546
SNP_P4_61223_40514077	NC_021163.1	Ca_kabuli_chr04	40514077	GG	AA	1946827548
SNP_P4_61226_40514922	NC_021163.1	Ca_kabuli_chr04	40514922	CC	TT	1946827550
SNP_P4_61227_40514924	NC_021163.1	Ca_kabuli_chr04	40514924	CC	TT	1946827552
SNP_P4_61229_40515866	NC_021163.1	Ca_kabuli_chr04	40515866	AA	GG	1946827554
SNP_P4_61230_40516511	NC_021163.1	Ca_kabuli_chr04	40516511	AA	GG	1946827556
SNP_P4_61231_40516526	NC_021163.1	Ca_kabuli_chr04	40516526	AA	GG	1946827558

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_61233_40516667	NC_021163.1	Ca_kabuli_chr04	40516667	AA	GG	1946827562
SNP_P4_61234_40517007	NC_021163.1	Ca_kabuli_chr04	40517007	TT	CC	1946827564
SNP_P4_61235_40517010	NC_021163.1	Ca_kabuli_chr04	40517010	AA	GG	1946827566
SNP_P4_61236_40517015	NC_021163.1	Ca_kabuli_chr04	40517015	AA	GG	1946827568
SNP_P4_61237_40517534	NC_021163.1	Ca_kabuli_chr04	40517534	TT	CC	1946827570
SNP_P4_61238_40517694	NC_021163.1	Ca_kabuli_chr04	40517694	CC	TT	1946827572
SNP_P4_61239_40517726	NC_021163.1	Ca_kabuli_chr04	40517726	GG	AA	1946827574
SNP_P4_61240_40517729	NC_021163.1	Ca_kabuli_chr04	40517729	TT	AA	1946827576
SNP_P4_61241_40517757	NC_021163.1	Ca_kabuli_chr04	40517757	TT	CC	1946827578
SNP_P4_61242_40518714	NC_021163.1	Ca_kabuli_chr04	40518714	CC	TT	1946827580
SNP_P4_61243_40518723	NC_021163.1	Ca_kabuli_chr04	40518723	CC	TT	1946827582
SNP_P4_61244_40518741	NC_021163.1	Ca_kabuli_chr04	40518741	GG	AA	1946827583
SNP_P4_61245_40518744	NC_021163.1	Ca_kabuli_chr04	40518744	GG	AA	1946827584
SNP_P4_61246_40518762	NC_021163.1	Ca_kabuli_chr04	40518762	GG	AA	1946827585
SNP_P4_61247_40518763	NC_021163.1	Ca_kabuli_chr04	40518763	TT	CC	1946827586
SNP_P4_61248_40518769	NC_021163.1	Ca_kabuli_chr04	40518769	GG	AA	1946827587
SNP_P4_61249_40519111	NC_021163.1	Ca_kabuli_chr04	40519111	GG	AA	1946827588
SNP_P4_61250_40519190	NC_021163.1	Ca_kabuli_chr04	40519190	CC	TT	1946827589
SNP_P4_61251_40519236	NC_021163.1	Ca_kabuli_chr04	40519236	CC	TT	1946827590
SNP_P4_61252_40519323	NC_021163.1	Ca_kabuli_chr04	40519323	TT	CC	1946827591
SNP_P4_61253_40519431	NC_021163.1	Ca_kabuli_chr04	40519431	CC	TT	1946827592
SNP_P4_61254_40519446	NC_021163.1	Ca_kabuli_chr04	40519446	AA	TT	1946827593
SNP_P4_61255_40519502	NC_021163.1	Ca_kabuli_chr04	40519502	CC	AA	1946827594
SNP_P4_61256_40519660	NC_021163.1	Ca_kabuli_chr04	40519660	GG	AA	1946827595
SNP_P4_61257_40519708	NC_021163.1	Ca_kabuli_chr04	40519708	GG	AA	1946827596
SNP_P4_61258_40519756	NC_021163.1	Ca_kabuli_chr04	40519756	AA	GG	1946827597
SNP_P4_61259_40519805	NC_021163.1	Ca_kabuli_chr04	40519805	TT	CC	1946827598
SNP_P4_61260_40519806	NC_021163.1	Ca_kabuli_chr04	40519806	GG	AA	1946827599
SNP_P4_61261_40519863	NC_021163.1	Ca_kabuli_chr04	40519863	GG	AA	1946827600
SNP_P4_61262_40519882	NC_021163.1	Ca_kabuli_chr04	40519882	TT	CC	1946827601
SNP_P4_61263_40519884	NC_021163.1	Ca_kabuli_chr04	40519884	TT	GG	1946827602
SNP_P4_61264_40519913	NC_021163.1	Ca_kabuli_chr04	40519913	GG	CC	1946827603
SNP_P4_61265_40520030	NC_021163.1	Ca_kabuli_chr04	40520030	GG	TT	1946827604
SNP_P4_61266_40523252	NC_021163.1	Ca_kabuli_chr04	40523252	CC	GG	1946827605
SNP_P4_61267_40523293	NC_021163.1	Ca_kabuli_chr04	40523293	GG	AA	1946827606
SNP_P4_61268_40523864	NC_021163.1	Ca_kabuli_chr04	40523864	TT	CC	1946827607
SNP_P4_61269_40524314	NC_021163.1	Ca_kabuli_chr04	40524314	AA	GG	1946827608
SNP_P4_61270_40524490	NC_021163.1	Ca_kabuli_chr04	40524490	GG	AA	1946827609
SNP_P4_61271_40524909	NC_021163.1	Ca_kabuli_chr04	40524909	AA	CC	1946827610
SNP_P4_61272_40525272	NC_021163.1	Ca_kabuli_chr04	40525272	AA	GG	1946827611
SNP_P4_61274_40528471	NC_021163.1	Ca_kabuli_chr04	40528471	AA	GG	1946827612

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_61276_40531736	NC_021163.1	Ca_kabuli_chr04	40531736	CC	TT	1946827614
SNP_P4_61277_40531764	NC_021163.1	Ca_kabuli_chr04	40531764	AA	GG	1946827615
SNP_P4_61278_40531786	NC_021163.1	Ca_kabuli_chr04	40531786	GG	AA	1946827616
SNP_P4_61279_40531908	NC_021163.1	Ca_kabuli_chr04	40531908	AA	CC	1946827617
SNP_P4_61281_40532660	NC_021163.1	Ca_kabuli_chr04	40532660	AA	GG	1946827618
SNP_P4_61282_40533165	NC_021163.1	Ca_kabuli_chr04	40533165	GG	CC	1946827619
SNP_P4_61283_40533234	NC_021163.1	Ca_kabuli_chr04	40533234	TT	AA	1946827620
SNP_P4_61284_40533244	NC_021163.1	Ca_kabuli_chr04	40533244	CC	AA	1946827621
SNP_P4_61285_40533278	NC_021163.1	Ca_kabuli_chr04	40533278	AA	CC	1946827622
SNP_P4_61286_40533821	NC_021163.1	Ca_kabuli_chr04	40533821	CC	GG	1946827623
SNP_P4_61287_40533858	NC_021163.1	Ca_kabuli_chr04	40533858	AA	GG	1946827624
SNP_P4_61289_40534906	NC_021163.1	Ca_kabuli_chr04	40534906	GG	AA	1946827625
SNP_P4_61290_40538051	NC_021163.1	Ca_kabuli_chr04	40538051	TT	AA	1946827626
SNP_P4_61291_40539576	NC_021163.1	Ca_kabuli_chr04	40539576	CC	TT	1946827627
SNP_P4_61292_40539583	NC_021163.1	Ca_kabuli_chr04	40539583	TT	CC	1946827628
SNP_P4_61293_40540890	NC_021163.1	Ca_kabuli_chr04	40540890	GG	TT	1946827629
SNP_P4_61294_40540921	NC_021163.1	Ca_kabuli_chr04	40540921	AA	GG	1946827630
SNP_P4_61295_40541644	NC_021163.1	Ca_kabuli_chr04	40541644	GG	CC	1946827631
SNP_P4_61296_40542351	NC_021163.1	Ca_kabuli_chr04	40542351	GG	AA	1946827632
SNP_P4_61297_40546323	NC_021163.1	Ca_kabuli_chr04	40546323	TT	AA	1946827633
SNP_P4_61298_40546881	NC_021163.1	Ca_kabuli_chr04	40546881	AA	GG	1946827634
SNP_P4_61299_40546891	NC_021163.1	Ca_kabuli_chr04	40546891	TT	GG	1946827635
SNP_P4_61300_40547057	NC_021163.1	Ca_kabuli_chr04	40547057	CC	TT	1946827636
SNP_P4_61301_40547090	NC_021163.1	Ca_kabuli_chr04	40547090	AA	GG	1946827637
SNP_P4_61302_40547399	NC_021163.1	Ca_kabuli_chr04	40547399	TT	GG	1946827638
SNP_P4_61303_40547557	NC_021163.1	Ca_kabuli_chr04	40547557	AA	TT	1946827639
SNP_P4_61304_40549820	NC_021163.1	Ca_kabuli_chr04	40549820	GG	AA	1946827640
SNP_P4_61305_40550103	NC_021163.1	Ca_kabuli_chr04	40550103	GG	AA	1946827641
SNP_P4_61306_40551386	NC_021163.1	Ca_kabuli_chr04	40551386	CC	AA	1946827642
SNP_P4_61308_40552636	NC_021163.1	Ca_kabuli_chr04	40552636	TT	GG	1946827643
SNP_P4_61309_40552724	NC_021163.1	Ca_kabuli_chr04	40552724	CC	AA	1946827644
SNP_P4_61310_40552770	NC_021163.1	Ca_kabuli_chr04	40552770	TT	GG	1946827645
SNP_P4_61311_40553223	NC_021163.1	Ca_kabuli_chr04	40553223	TT	GG	1946827646
SNP_P4_61312_40553444	NC_021163.1	Ca_kabuli_chr04	40553444	TT	GG	1946827647
SNP_P4_61313_40553634	NC_021163.1	Ca_kabuli_chr04	40553634	AA	GG	1946827648
SNP_P4_61314_40553886	NC_021163.1	Ca_kabuli_chr04	40553886	GG	CC	1946827649
SNP_P4_61315_40553911	NC_021163.1	Ca_kabuli_chr04	40553911	CC	TT	1946827650
SNP_P4_61316_40553964	NC_021163.1	Ca_kabuli_chr04	40553964	GG	TT	1946827651
SNP_P4_61317_40553971	NC_021163.1	Ca_kabuli_chr04	40553971	GG	CC	1946827652
SNP_P4_61318_40555030	NC_021163.1	Ca_kabuli_chr04	40555030	CC	TT	1946827653
SNP_P4_61319_40555374	NC_021163.1	Ca_kabuli_chr04	40555374	AA	TT	1946827654

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_61321_40555475	NC_021163.1	Ca_kabuli_chr04	40555475	TT	CC	1946827656
SNP_P4_61322_40555546	NC_021163.1	Ca_kabuli_chr04	40555546	TT	GG	1946827657
SNP_P4_61323_40556000	NC_021163.1	Ca_kabuli_chr04	40556000	CC	TT	1946827658
SNP_P4_61324_40556045	NC_021163.1	Ca_kabuli_chr04	40556045	TT	AA	1946827659
SNP_P4_61325_40557716	NC_021163.1	Ca_kabuli_chr04	40557716	CC	TT	1946827660
SNP_P4_61326_40558595	NC_021163.1	Ca_kabuli_chr04	40558595	TT	CC	1946827661
SNP_P4_61327_40559104	NC_021163.1	Ca_kabuli_chr04	40559104	AA	CC	1946827662
SNP_P4_61328_40559197	NC_021163.1	Ca_kabuli_chr04	40559197	TT	CC	1946827663
SNP_P4_61330_40559484	NC_021163.1	Ca_kabuli_chr04	40559484	GG	AA	1946827664
SNP_P4_61331_40559489	NC_021163.1	Ca_kabuli_chr04	40559489	CC	TT	1946827665
SNP_P4_61332_40559513	NC_021163.1	Ca_kabuli_chr04	40559513	TT	CC	1946827666
SNP_P4_61333_40559534	NC_021163.1	Ca_kabuli_chr04	40559534	CC	TT	1946827667
SNP_P4_61334_40559575	NC_021163.1	Ca_kabuli_chr04	40559575	AA	GG	1946827668
SNP_P4_61335_40559957	NC_021163.1	Ca_kabuli_chr04	40559957	CC	TT	1946827669
SNP_P4_61336_40560292	NC_021163.1	Ca_kabuli_chr04	40560292	AA	GG	1946827670
SNP_P4_61337_40560543	NC_021163.1	Ca_kabuli_chr04	40560543	GG	AA	1946827671
SNP_P4_61339_40560600	NC_021163.1	Ca_kabuli_chr04	40560600	TT	CC	1946827672
SNP_P4_61340_40560603	NC_021163.1	Ca_kabuli_chr04	40560603	GG	TT	1946827673
SNP_P4_61341_40560760	NC_021163.1	Ca_kabuli_chr04	40560760	GG	AA	1946827674
SNP_P4_61342_40560801	NC_021163.1	Ca_kabuli_chr04	40560801	TT	GG	1946827675
SNP_P4_61343_40560839	NC_021163.1	Ca_kabuli_chr04	40560839	TT	CC	1946827676
SNP_P4_61344_40560866	NC_021163.1	Ca_kabuli_chr04	40560866	TT	AA	1946827677
SNP_P4_61345_40560879	NC_021163.1	Ca_kabuli_chr04	40560879	GG	AA	1946827678
SNP_P4_61346_40560880	NC_021163.1	Ca_kabuli_chr04	40560880	TT	CC	1946827679
SNP_P4_61347_40560898	NC_021163.1	Ca_kabuli_chr04	40560898	GG	AA	1946827680
SNP_P4_61348_40560982	NC_021163.1	Ca_kabuli_chr04	40560982	AA	GG	1946827681
SNP_P4_61349_40560995	NC_021163.1	Ca_kabuli_chr04	40560995	TT	CC	1946827682
SNP_P4_61350_40560996	NC_021163.1	Ca_kabuli_chr04	40560996	GG	AA	1946827683
SNP_P4_61351_40561060	NC_021163.1	Ca_kabuli_chr04	40561060	AA	TT	1946827684
SNP_P4_61352_40561337	NC_021163.1	Ca_kabuli_chr04	40561337	GG	TT	1946827685
SNP_P4_61353_40567206	NC_021163.1	Ca_kabuli_chr04	40567206	GG	AA	1946827686
SNP_P4_61354_40567210	NC_021163.1	Ca_kabuli_chr04	40567210	AA	TT	1946827687
SNP_P4_61355_40567237	NC_021163.1	Ca_kabuli_chr04	40567237	TT	CC	1946827688
SNP_P4_61356_40567455	NC_021163.1	Ca_kabuli_chr04	40567455	CC	TT	1946827689
SNP_P4_61357_40569716	NC_021163.1	Ca_kabuli_chr04	40569716	GG	AA	1946827690
SNP_P4_61358_40571040	NC_021163.1	Ca_kabuli_chr04	40571040	TT	CC	1946827691
SNP_P4_61359_40571081	NC_021163.1	Ca_kabuli_chr04	40571081	AA	GG	1946827692
SNP_P4_61360_40571099	NC_021163.1	Ca_kabuli_chr04	40571099	AA	TT	1946827693
SNP_P4_61361_40571699	NC_021163.1	Ca_kabuli_chr04	40571699	GG	AA	1946827694
SNP_P4_61362_40571706	NC_021163.1	Ca_kabuli_chr04	40571706	AA	GG	1946827695
SNP_P4_61363_40571708	NC_021163.1	Ca_kabuli_chr04	40571708	AA	TT	1946827696

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_61366_40572002	NC_021163.1	Ca_kabuli_chr04	40572002	AA	CC	1946827698
SNP_P4_61367_40572152	NC_021163.1	Ca_kabuli_chr04	40572152	AA	GG	1946827699
SNP_P4_61368_40572157	NC_021163.1	Ca_kabuli_chr04	40572157	TT	CC	1946827700
SNP_P4_61369_40572159	NC_021163.1	Ca_kabuli_chr04	40572159	AA	GG	1946827701
SNP_P4_61370_40572167	NC_021163.1	Ca_kabuli_chr04	40572167	CC	AA	1946827702
SNP_P4_61371_40572207	NC_021163.1	Ca_kabuli_chr04	40572207	GG	CC	1946827703
SNP_P4_61372_40572208	NC_021163.1	Ca_kabuli_chr04	40572208	AA	TT	1946827704
SNP_P4_61373_40572239	NC_021163.1	Ca_kabuli_chr04	40572239	AA	GG	1946827705
SNP_P4_61374_40572477	NC_021163.1	Ca_kabuli_chr04	40572477	AA	GG	1946827706
SNP_P4_61375_40573267	NC_021163.1	Ca_kabuli_chr04	40573267	AA	GG	1946827707
SNP_P4_61376_40573329	NC_021163.1	Ca_kabuli_chr04	40573329	CC	TT	1946827708
SNP_P4_61377_40573367	NC_021163.1	Ca_kabuli_chr04	40573367	GG	AA	1946827709
SNP_P4_61378_40573447	NC_021163.1	Ca_kabuli_chr04	40573447	CC	TT	1946827710
SNP_P4_61379_40573486	NC_021163.1	Ca_kabuli_chr04	40573486	CC	GG	1946827711
SNP_P4_61381_40573659	NC_021163.1	Ca_kabuli_chr04	40573659	AA	TT	1946827712
SNP_P4_61382_40574263	NC_021163.1	Ca_kabuli_chr04	40574263	AA	GG	1946827713
SNP_P4_61383_40574269	NC_021163.1	Ca_kabuli_chr04	40574269	TT	GG	1946827714
SNP_P4_61384_40574277	NC_021163.1	Ca_kabuli_chr04	40574277	AA	GG	1946827715
SNP_P4_61386_40574683	NC_021163.1	Ca_kabuli_chr04	40574683	CC	TT	1946827716
SNP_P4_61387_40574725	NC_021163.1	Ca_kabuli_chr04	40574725	CC	TT	1946827717
SNP_P4_61388_40574737	NC_021163.1	Ca_kabuli_chr04	40574737	AA	GG	1946827718
SNP_P4_61389_40574758	NC_021163.1	Ca_kabuli_chr04	40574758	AA	GG	1946827719
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SNP_P4_61393_40575273	NC_021163.1	Ca_kabuli_chr04	40575273	GG	AA	1946827723
SNP_P4_61395_40576877	NC_021163.1	Ca_kabuli_chr04	40576877	GG	AA	1946827724
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SNP_P4_61397_40577089	NC_021163.1	Ca_kabuli_chr04	40577089	CC	TT	1946827726
SNP_P4_61398_40577221	NC_021163.1	Ca_kabuli_chr04	40577221	AA	CC	1946827727
SNP_P4_61400_40580037	NC_021163.1	Ca_kabuli_chr04	40580037	AA	GG	1946827728
SNP_P4_61402_40587185	NC_021163.1	Ca_kabuli_chr04	40587185	GG	AA	1946827729
SNP_P4_61403_40587478	NC_021163.1	Ca_kabuli_chr04	40587478	TT	AA	1946827730
SNP_P4_61406_40591120	NC_021163.1	Ca_kabuli_chr04	40591120	CC	TT	1946827731
SNP_P4_61407_40591471	NC_021163.1	Ca_kabuli_chr04	40591471	AA	CC	1946827732
SNP_P4_61408_40591707	NC_021163.1	Ca_kabuli_chr04	40591707	GG	AA	1946827733
SNP_P4_61409_40592621	NC_021163.1	Ca_kabuli_chr04	40592621	TT	AA	1946827734
SNP_P4_61410_40592806	NC_021163.1	Ca_kabuli_chr04	40592806	TT	AA	1946827735
SNP_P4_61411_40593014	NC_021163.1	Ca_kabuli_chr04	40593014	TT	CC	1946827736
SNP_P4_61413_40593301	NC_021163.1	Ca_kabuli_chr04	40593301	TT	CC	1946827737
SNP_P4_61414_40593316	NC_021163.1	Ca_kabuli_chr04	40593316	GG	AA	1946827738

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_61418_40598631	NC_021163.1	Ca_kabuli_chr04	40598631	CC	GG	1946827742
SNP_P4_61419_40599444	NC_021163.1	Ca_kabuli_chr04	40599444	GG	AA	1946827744
SNP_P4_61420_40600350	NC_021163.1	Ca_kabuli_chr04	40600350	GG	AA	1946827746
SNP_P4_61421_40600354	NC_021163.1	Ca_kabuli_chr04	40600354	TT	GG	1946827748
SNP_P4_61422_40601388	NC_021163.1	Ca_kabuli_chr04	40601388	GG	TT	1946827750
SNP_P4_61426_40604060	NC_021163.1	Ca_kabuli_chr04	40604060	CC	TT	1946827752
SNP_P4_61427_40604067	NC_021163.1	Ca_kabuli_chr04	40604067	GG	AA	1946827754
SNP_P4_61429_40611261	NC_021163.1	Ca_kabuli_chr04	40611261	GG	AA	1946827756
SNP_P4_61430_40611333	NC_021163.1	Ca_kabuli_chr04	40611333	TT	AA	1946827758
SNP_P4_61431_40613328	NC_021163.1	Ca_kabuli_chr04	40613328	AA	GG	1946827760
SNP_P4_61433_40615140	NC_021163.1	Ca_kabuli_chr04	40615140	CC	AA	1946827762
SNP_P4_61434_40615637	NC_021163.1	Ca_kabuli_chr04	40615637	TT	GG	1946827764
SNP_P4_61435_40618403	NC_021163.1	Ca_kabuli_chr04	40618403	TT	CC	1946827766
SNP_P4_61436_40620824	NC_021163.1	Ca_kabuli_chr04	40620824	AA	TT	1946827768
SNP_P4_61437_40620840	NC_021163.1	Ca_kabuli_chr04	40620840	CC	TT	1946827770
SNP_P4_61439_40621859	NC_021163.1	Ca_kabuli_chr04	40621859	GG	AA	1946827772
SNP_P4_61440_40622109	NC_021163.1	Ca_kabuli_chr04	40622109	TT	GG	1946827774
SNP_P4_61442_40625207	NC_021163.1	Ca_kabuli_chr04	40625207	GG	AA	1946827776
SNP_P4_61443_40625425	NC_021163.1	Ca_kabuli_chr04	40625425	CC	TT	1946827778
SNP_P4_61444_40629607	NC_021163.1	Ca_kabuli_chr04	40629607	TT	CC	1946827780
SNP_P4_61445_40630366	NC_021163.1	Ca_kabuli_chr04	40630366	TT	CC	1946827782
SNP_P4_61446_40630367	NC_021163.1	Ca_kabuli_chr04	40630367	AA	CC	1946827784
SNP_P4_61447_40630368	NC_021163.1	Ca_kabuli_chr04	40630368	GG	AA	1946827786
SNP_P4_61448_40630369	NC_021163.1	Ca_kabuli_chr04	40630369	TT	AA	1946827788
SNP_P4_61449_40630370	NC_021163.1	Ca_kabuli_chr04	40630370	TT	CC	1946827790
SNP_P4_61450_40630411	NC_021163.1	Ca_kabuli_chr04	40630411	GG	AA	1946827792
SNP_P4_61451_40630664	NC_021163.1	Ca_kabuli_chr04	40630664	CC	TT	1946827794
SNP_P4_61452_40632226	NC_021163.1	Ca_kabuli_chr04	40632226	TT	AA	1946827796
SNP_P4_61454_40633850	NC_021163.1	Ca_kabuli_chr04	40633850	TT	CC	1946827798
SNP_P4_61455_40633889	NC_021163.1	Ca_kabuli_chr04	40633889	TT	CC	1946827800
SNP_P4_61456_40634006	NC_021163.1	Ca_kabuli_chr04	40634006	CC	TT	1946827802
SNP_P4_61457_40634624	NC_021163.1	Ca_kabuli_chr04	40634624	TT	AA	1946827804
SNP_P4_61458_40635062	NC_021163.1	Ca_kabuli_chr04	40635062	GG	TT	1946827806
SNP_P4_61459_40635475	NC_021163.1	Ca_kabuli_chr04	40635475	AA	GG	1946827808
SNP_P4_61460_40637789	NC_021163.1	Ca_kabuli_chr04	40637789	TT	CC	1946827810
SNP_P4_61461_40637790	NC_021163.1	Ca_kabuli_chr04	40637790	CC	AA	1946827812
SNP_P4_61462_40638071	NC_021163.1	Ca_kabuli_chr04	40638071	CC	TT	1946827814
SNP_P4_61463_40638686	NC_021163.1	Ca_kabuli_chr04	40638686	CC	TT	1946827816
SNP_P4_61464_40638713	NC_021163.1	Ca_kabuli_chr04	40638713	TT	CC	1946827818
SNP_P4_61466_40638745	NC_021163.1	Ca_kabuli_chr04	40638745	TT	CC	1946827820

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_61467_40638748	NC_021163.1	Ca_kabuli_chr04	40638748	TT	CC	1946827822
SNP_P4_61469_40639403	NC_021163.1	Ca_kabuli_chr04	40639403	TT	AA	1946827824
SNP_P4_61470_40639635	NC_021163.1	Ca_kabuli_chr04	40639635	AA	GG	1946827826
SNP_P4_61471_40639640	NC_021163.1	Ca_kabuli_chr04	40639640	AA	GG	1946827828
SNP_P4_61472_40639653	NC_021163.1	Ca_kabuli_chr04	40639653	TT	CC	1946827830
SNP_P4_61474_40640164	NC_021163.1	Ca_kabuli_chr04	40640164	AA	CC	1946827832
SNP_P4_61475_40640413	NC_021163.1	Ca_kabuli_chr04	40640413	CC	TT	1946827834
SNP_P4_61476_40640442	NC_021163.1	Ca_kabuli_chr04	40640442	CC	TT	1946827836
SNP_P4_61477_40640445	NC_021163.1	Ca_kabuli_chr04	40640445	GG	AA	1946827838
SNP_P4_61478_40640456	NC_021163.1	Ca_kabuli_chr04	40640456	CC	TT	1946827840
SNP_P4_61479_40640461	NC_021163.1	Ca_kabuli_chr04	40640461	AA	TT	1946827842
SNP_P4_61480_40640469	NC_021163.1	Ca_kabuli_chr04	40640469	TT	CC	1946827845
SNP_P4_61481_40640491	NC_021163.1	Ca_kabuli_chr04	40640491	AA	GG	1946827847
SNP_P4_61483_40642301	NC_021163.1	Ca_kabuli_chr04	40642301	TT	CC	1946827849
SNP_P4_61484_40643967	NC_021163.1	Ca_kabuli_chr04	40643967	CC	TT	1946827851
SNP_P4_61485_40644004	NC_021163.1	Ca_kabuli_chr04	40644004	GG	AA	1946827853
SNP_P4_61486_40644027	NC_021163.1	Ca_kabuli_chr04	40644027	TT	CC	1946827855
SNP_P4_61487_40645336	NC_021163.1	Ca_kabuli_chr04	40645336	TT	CC	1946827857
SNP_P4_61488_40645382	NC_021163.1	Ca_kabuli_chr04	40645382	GG	CC	1946827859
SNP_P4_61490_40647474	NC_021163.1	Ca_kabuli_chr04	40647474	TT	AA	1946827861
SNP_P4_61491_40647596	NC_021163.1	Ca_kabuli_chr04	40647596	TT	CC	1946827863
SNP_P4_61492_40647605	NC_021163.1	Ca_kabuli_chr04	40647605	CC	TT	1946827865
SNP_P4_61493_40647938	NC_021163.1	Ca_kabuli_chr04	40647938	AA	CC	1946827867
SNP_P4_61494_40648050	NC_021163.1	Ca_kabuli_chr04	40648050	AA	CC	1946827869
SNP_P4_61495_40648072	NC_021163.1	Ca_kabuli_chr04	40648072	TT	AA	1946827871
SNP_P4_61496_40648128	NC_021163.1	Ca_kabuli_chr04	40648128	TT	GG	1946827873
SNP_P4_61497_40648207	NC_021163.1	Ca_kabuli_chr04	40648207	CC	TT	1946827875
SNP_P4_61498_40648290	NC_021163.1	Ca_kabuli_chr04	40648290	TT	CC	1946827878
SNP_P4_61499_40648326	NC_021163.1	Ca_kabuli_chr04	40648326	CC	TT	1946827880
SNP_P4_61500_40648339	NC_021163.1	Ca_kabuli_chr04	40648339	GG	AA	1946827882
SNP_P4_61501_40648359	NC_021163.1	Ca_kabuli_chr04	40648359	TT	CC	1946827884
SNP_P4_61502_40648618	NC_021163.1	Ca_kabuli_chr04	40648618	CC	TT	1946827886
SNP_P4_61503_40648743	NC_021163.1	Ca_kabuli_chr04	40648743	CC	TT	1946827888
SNP_P4_61504_40648869	NC_021163.1	Ca_kabuli_chr04	40648869	TT	GG	1946827890
SNP_P4_61505_40648877	NC_021163.1	Ca_kabuli_chr04	40648877	CC	AA	1946827892
SNP_P4_61506_40648899	NC_021163.1	Ca_kabuli_chr04	40648899	GG	AA	1946827894
SNP_P4_61507_40648933	NC_021163.1	Ca_kabuli_chr04	40648933	CC	TT	1946827896
SNP_P4_61509_40649069	NC_021163.1	Ca_kabuli_chr04	40649069	GG	CC	1946827898
SNP_P4_61510_40649078	NC_021163.1	Ca_kabuli_chr04	40649078	GG	AA	1946827900
SNP_P4_61511_40649120	NC_021163.1	Ca_kabuli_chr04	40649120	TT	AA	1946827902
SNP_P4_61512_40651378	NC_021163.1	Ca_kabuli_chr04	40651378	CC	AA	1946827904
SNP_P4_61513_40651379	NC_021163.1	Ca_kabuli_chr04	40651379	TT	CC	1946827906

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_61514_40651380	NC_021163.1	Ca_kabuli_chr04	40651380	CC	GG	1946827908
SNP_P4_61515_40651518	NC_021163.1	Ca_kabuli_chr04	40651518	GG	AA	1946827910
SNP_P4_61516_40651569	NC_021163.1	Ca_kabuli_chr04	40651569	GG	AA	1946827913
SNP_P4_61517_40651807	NC_021163.1	Ca_kabuli_chr04	40651807	CC	TT	1946827915
SNP_P4_61518_40651848	NC_021163.1	Ca_kabuli_chr04	40651848	AA	TT	1946827916
SNP_P4_61519_40652279	NC_021163.1	Ca_kabuli_chr04	40652279	AA	GG	1946827918
SNP_P4_61520_40653040	NC_021163.1	Ca_kabuli_chr04	40653040	TT	AA	1946827921
SNP_P4_61521_40653093	NC_021163.1	Ca_kabuli_chr04	40653093	GG	TT	1946827923
SNP_P4_61522_40653116	NC_021163.1	Ca_kabuli_chr04	40653116	CC	AA	1946827924
SNP_P4_61524_40700993	NC_021163.1	Ca_kabuli_chr04	40700993	AA	GG	1946827926
SNP_P4_61525_40701279	NC_021163.1	Ca_kabuli_chr04	40701279	AA	TT	1946827928
SNP_P4_61526_40702056	NC_021163.1	Ca_kabuli_chr04	40702056	CC	TT	1946827930
SNP_P4_61527_40702074	NC_021163.1	Ca_kabuli_chr04	40702074	TT	CC	1946827932
SNP_P4_61528_40702215	NC_021163.1	Ca_kabuli_chr04	40702215	TT	CC	1946827934
SNP_P4_61529_40702232	NC_021163.1	Ca_kabuli_chr04	40702232	CC	TT	1946827936
SNP_P4_61530_40702587	NC_021163.1	Ca_kabuli_chr04	40702587	CC	GG	1946827938
SNP_P4_61531_40702637	NC_021163.1	Ca_kabuli_chr04	40702637	AA	GG	1946827940
SNP_P4_61532_40702649	NC_021163.1	Ca_kabuli_chr04	40702649	AA	CC	1946827942
SNP_P4_61533_40702673	NC_021163.1	Ca_kabuli_chr04	40702673	AA	GG	1946827944
SNP_P4_61535_40702781	NC_021163.1	Ca_kabuli_chr04	40702781	CC	TT	1946827946
SNP_P4_61536_40703141	NC_021163.1	Ca_kabuli_chr04	40703141	TT	CC	1946827948
SNP_P4_61537_40703270	NC_021163.1	Ca_kabuli_chr04	40703270	CC	AA	1946827950
SNP_P4_61538_40703398	NC_021163.1	Ca_kabuli_chr04	40703398	GG	AA	1946827952
SNP_P4_61539_40704137	NC_021163.1	Ca_kabuli_chr04	40704137	TT	CC	1946827954
SNP_P4_61541_40704881	NC_021163.1	Ca_kabuli_chr04	40704881	TT	AA	1946827956
SNP_P4_61543_40707256	NC_021163.1	Ca_kabuli_chr04	40707256	GG	AA	1946827958
SNP_P4_61544_40708045	NC_021163.1	Ca_kabuli_chr04	40708045	GG	AA	1946827960
SNP_P4_61545_40714458	NC_021163.1	Ca_kabuli_chr04	40714458	TT	AA	1946827962
SNP_P4_61546_40717742	NC_021163.1	Ca_kabuli_chr04	40717742	GG	AA	1946827964
SNP_P4_61547_40718340	NC_021163.1	Ca_kabuli_chr04	40718340	GG	AA	1946827966
SNP_P4_61548_40720663	NC_021163.1	Ca_kabuli_chr04	40720663	TT	CC	1946827968
SNP_P4_61550_40722666	NC_021163.1	Ca_kabuli_chr04	40722666	CC	TT	1946827970
SNP_P4_61552_40728475	NC_021163.1	Ca_kabuli_chr04	40728475	TT	GG	1946827972
SNP_P4_61553_40728509	NC_021163.1	Ca_kabuli_chr04	40728509	CC	TT	1946827974
SNP_P4_61554_40729241	NC_021163.1	Ca_kabuli_chr04	40729241	TT	CC	1946827976
SNP_P4_61555_40729362	NC_021163.1	Ca_kabuli_chr04	40729362	AA	GG	1946827978
SNP_P4_61556_40729369	NC_021163.1	Ca_kabuli_chr04	40729369	AA	GG	1946827979
SNP_P4_61558_40729412	NC_021163.1	Ca_kabuli_chr04	40729412	CC	AA	1946827982
SNP_P4_61559_40729433	NC_021163.1	Ca_kabuli_chr04	40729433	TT	GG	1946827984
SNP_P4_61560_40729690	NC_021163.1	Ca_kabuli_chr04	40729690	CC	GG	1946827986
SNP_P4_61561_40729744	NC_021163.1	Ca_kabuli_chr04	40729744	GG	AA	1946827988
SNP_P4_61562_40729915	NC_021163.1	Ca_kabuli_chr04	40729915	GG	AA	1946827990

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_61563_40729918	NC_021163.1	Ca_kabuli_chr04	40729918	GG	TT	1946827992
SNP_P4_61564_40730105	NC_021163.1	Ca_kabuli_chr04	40730105	GG	AA	1946827994
SNP_P4_61565_40730107	NC_021163.1	Ca_kabuli_chr04	40730107	TT	AA	1946827996
SNP_P4_61566_40730150	NC_021163.1	Ca_kabuli_chr04	40730150	GG	TT	1946827998
SNP_P4_61567_40730213	NC_021163.1	Ca_kabuli_chr04	40730213	GG	AA	1946828000
SNP_P4_61568_40730225	NC_021163.1	Ca_kabuli_chr04	40730225	AA	GG	1946828002
SNP_P4_61569_40730260	NC_021163.1	Ca_kabuli_chr04	40730260	CC	TT	1946828004
SNP_P4_61570_40730549	NC_021163.1	Ca_kabuli_chr04	40730549	CC	TT	1946828005
SNP_P4_61571_40730830	NC_021163.1	Ca_kabuli_chr04	40730830	AA	GG	1946828007
SNP_P4_61572_40731013	NC_021163.1	Ca_kabuli_chr04	40731013	AA	TT	1946828009
SNP_P4_61573_40731133	NC_021163.1	Ca_kabuli_chr04	40731133	AA	GG	1946828011
SNP_P4_61575_40731159	NC_021163.1	Ca_kabuli_chr04	40731159	CC	AA	1946828013
SNP_P4_61576_40731810	NC_021163.1	Ca_kabuli_chr04	40731810	AA	GG	1946828015
SNP_P4_61577_40732168	NC_021163.1	Ca_kabuli_chr04	40732168	TT	CC	1946828017
SNP_P4_61578_40732188	NC_021163.1	Ca_kabuli_chr04	40732188	CC	TT	1946828019
SNP_P4_61579_40732224	NC_021163.1	Ca_kabuli_chr04	40732224	AA	CC	1946828021
SNP_P4_61580_40733575	NC_021163.1	Ca_kabuli_chr04	40733575	AA	TT	1946828023
SNP_P4_61581_40734572	NC_021163.1	Ca_kabuli_chr04	40734572	GG	TT	1946828025
SNP_P4_61582_40735525	NC_021163.1	Ca_kabuli_chr04	40735525	TT	CC	1946828027
SNP_P4_61583_40736396	NC_021163.1	Ca_kabuli_chr04	40736396	CC	TT	1946828029
SNP_P4_61584_40736402	NC_021163.1	Ca_kabuli_chr04	40736402	GG	AA	1946828031
SNP_P4_61585_40736442	NC_021163.1	Ca_kabuli_chr04	40736442	GG	AA	1946828033
SNP_P4_61586_40736712	NC_021163.1	Ca_kabuli_chr04	40736712	AA	GG	1946828035
SNP_P4_61587_40736721	NC_021163.1	Ca_kabuli_chr04	40736721	AA	GG	1946828037
SNP_P4_61588_40737462	NC_021163.1	Ca_kabuli_chr04	40737462	AA	TT	1946828039
SNP_P4_61589_40737474	NC_021163.1	Ca_kabuli_chr04	40737474	AA	GG	1946828041
SNP_P4_61590_40737523	NC_021163.1	Ca_kabuli_chr04	40737523	GG	AA	1946828043
SNP_P4_61591_40737530	NC_021163.1	Ca_kabuli_chr04	40737530	TT	CC	1946828045
SNP_P4_61593_40738402	NC_021163.1	Ca_kabuli_chr04	40738402	TT	AA	1946828047
SNP_P4_61594_40738475	NC_021163.1	Ca_kabuli_chr04	40738475	AA	TT	1946828049
SNP_P4_61595_40738515	NC_021163.1	Ca_kabuli_chr04	40738515	CC	AA	1946828051
SNP_P4_61596_40742532	NC_021163.1	Ca_kabuli_chr04	40742532	TT	CC	1946828053
SNP_P4_61597_40742568	NC_021163.1	Ca_kabuli_chr04	40742568	CC	TT	1946828055
SNP_P4_61598_40743273	NC_021163.1	Ca_kabuli_chr04	40743273	AA	GG	1946828057
SNP_P4_61599_40743317	NC_021163.1	Ca_kabuli_chr04	40743317	GG	AA	1946828060
SNP_P4_61601_40743630	NC_021163.1	Ca_kabuli_chr04	40743630	AA	CC	1946828062
SNP_P4_61602_40744600	NC_021163.1	Ca_kabuli_chr04	40744600	AA	GG	1946828064
SNP_P4_61603_40744605	NC_021163.1	Ca_kabuli_chr04	40744605	GG	TT	1946828066
SNP_P4_61604_40746510	NC_021163.1	Ca_kabuli_chr04	40746510	TT	CC	1946828068
SNP_P4_61605_40746514	NC_021163.1	Ca_kabuli_chr04	40746514	GG	AA	1946828070
SNP_P4_61606_40746532	NC_021163.1	Ca_kabuli_chr04	40746532	CC	GG	1946828072
SNP_P4_61607_40746765	NC_021163.1	Ca_kabuli_chr04	40746765	GG	AA	1946828074

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_61608_40746793	NC_021163.1	Ca_kabuli_chr04	40746793	TT	CC	1946828076
SNP_P4_61609_40748647	NC_021163.1	Ca_kabuli_chr04	40748647	CC	TT	1946828078
SNP_P4_61610_40748671	NC_021163.1	Ca_kabuli_chr04	40748671	TT	CC	1946828080
SNP_P4_61611_40748712	NC_021163.1	Ca_kabuli_chr04	40748712	CC	TT	1946828082
SNP_P4_61612_40749375	NC_021163.1	Ca_kabuli_chr04	40749375	TT	CC	1946828084
SNP_P4_61613_40749378	NC_021163.1	Ca_kabuli_chr04	40749378	AA	GG	1946828086
SNP_P4_61614_40749658	NC_021163.1	Ca_kabuli_chr04	40749658	GG	AA	1946828088
SNP_P4_61615_40749662	NC_021163.1	Ca_kabuli_chr04	40749662	TT	CC	1946828090
SNP_P4_61616_40749675	NC_021163.1	Ca_kabuli_chr04	40749675	CC	TT	1946828092
SNP_P4_61617_40749676	NC_021163.1	Ca_kabuli_chr04	40749676	TT	CC	1946828094
SNP_P4_61618_40749733	NC_021163.1	Ca_kabuli_chr04	40749733	AA	GG	1946828096
SNP_P4_61619_40749740	NC_021163.1	Ca_kabuli_chr04	40749740	TT	AA	1946828098
SNP_P4_61620_40750555	NC_021163.1	Ca_kabuli_chr04	40750555	AA	GG	1946828100
SNP_P4_61621_40751000	NC_021163.1	Ca_kabuli_chr04	40751000	TT	CC	1946828102
SNP_P4_61622_40751087	NC_021163.1	Ca_kabuli_chr04	40751087	GG	CC	1946828104
SNP_P4_61623_40754010	NC_021163.1	Ca_kabuli_chr04	40754010	TT	CC	1946828106
SNP_P4_61624_40754971	NC_021163.1	Ca_kabuli_chr04	40754971	TT	CC	1946828108
SNP_P4_61625_40755565	NC_021163.1	Ca_kabuli_chr04	40755565	AA	GG	1946828110
SNP_P4_61626_40755721	NC_021163.1	Ca_kabuli_chr04	40755721	GG	AA	1946828112
SNP_P4_61627_40755879	NC_021163.1	Ca_kabuli_chr04	40755879	TT	CC	1946828114
SNP_P4_61628_40755996	NC_021163.1	Ca_kabuli_chr04	40755996	CC	AA	1946828116
SNP_P4_61629_40756104	NC_021163.1	Ca_kabuli_chr04	40756104	CC	TT	1946828118
SNP_P4_61631_40757508	NC_021163.1	Ca_kabuli_chr04	40757508	CC	TT	1946828120
SNP_P4_61632_40757515	NC_021163.1	Ca_kabuli_chr04	40757515	CC	AA	1946828122
SNP_P4_61633_40757534	NC_021163.1	Ca_kabuli_chr04	40757534	GG	AA	1946828123
SNP_P4_61634_40760435	NC_021163.1	Ca_kabuli_chr04	40760435	TT	CC	1946828124
SNP_P4_61635_40760440	NC_021163.1	Ca_kabuli_chr04	40760440	AA	TT	1946828125
SNP_P4_61636_40761315	NC_021163.1	Ca_kabuli_chr04	40761315	AA	TT	1946828127
SNP_P4_61637_40761320	NC_021163.1	Ca_kabuli_chr04	40761320	AA	CC	1946828128
SNP_P4_61638_40761323	NC_021163.1	Ca_kabuli_chr04	40761323	AA	TT	1946828130
SNP_P4_61639_40761775	NC_021163.1	Ca_kabuli_chr04	40761775	TT	AA	1946828132
SNP_P4_61640_40762003	NC_021163.1	Ca_kabuli_chr04	40762003	GG	CC	1946828134
SNP_P4_61641_40762031	NC_021163.1	Ca_kabuli_chr04	40762031	CC	TT	1946828136
SNP_P4_61643_40762210	NC_021163.1	Ca_kabuli_chr04	40762210	TT	CC	1946828138
SNP_P4_61644_40762216	NC_021163.1	Ca_kabuli_chr04	40762216	CC	TT	1946828140
SNP_P4_61645_40762221	NC_021163.1	Ca_kabuli_chr04	40762221	CC	TT	1946828142
SNP_P4_61646_40762231	NC_021163.1	Ca_kabuli_chr04	40762231	CC	TT	1946828144
SNP_P4_61647_40762267	NC_021163.1	Ca_kabuli_chr04	40762267	TT	CC	1946828146
SNP_P4_61648_40762286	NC_021163.1	Ca_kabuli_chr04	40762286	CC	TT	1946828148
SNP_P4_61649_40762297	NC_021163.1	Ca_kabuli_chr04	40762297	AA	GG	1946828150
SNP_P4_61650_40762300	NC_021163.1	Ca_kabuli_chr04	40762300	CC	TT	1946828152
SNP_P4_61651_40763003	NC_021163.1	Ca_kabuli_chr04	40763003	TT	AA	1946828154

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_61653_40763078	NC_021163.1	Ca_kabuli_chr04	40763078	AA	TT	1946828158
SNP_P4_61654_40763081	NC_021163.1	Ca_kabuli_chr04	40763081	AA	TT	1946828160
SNP_P4_61656_40763676	NC_021163.1	Ca_kabuli_chr04	40763676	TT	CC	1946828162
SNP_P4_61658_40763743	NC_021163.1	Ca_kabuli_chr04	40763743	AA	GG	1946828164
SNP_P4_61659_40763766	NC_021163.1	Ca_kabuli_chr04	40763766	TT	CC	1946828166
SNP_P4_61660_40763912	NC_021163.1	Ca_kabuli_chr04	40763912	GG	TT	1946828168
SNP_P4_61661_40764000	NC_021163.1	Ca_kabuli_chr04	40764000	TT	GG	1946828170
SNP_P4_61662_40764005	NC_021163.1	Ca_kabuli_chr04	40764005	AA	GG	1946828172
SNP_P4_61663_40764008	NC_021163.1	Ca_kabuli_chr04	40764008	AA	GG	1946828175
SNP_P4_61664_40764012	NC_021163.1	Ca_kabuli_chr04	40764012	AA	GG	1946828177
SNP_P4_61665_40764211	NC_021163.1	Ca_kabuli_chr04	40764211	GG	AA	1946828179
SNP_P4_61666_40765069	NC_021163.1	Ca_kabuli_chr04	40765069	AA	GG	1946828181
SNP_P4_61667_40765401	NC_021163.1	Ca_kabuli_chr04	40765401	GG	AA	1946828183
SNP_P4_61668_40765412	NC_021163.1	Ca_kabuli_chr04	40765412	AA	GG	1946828185
SNP_P4_61669_40765858	NC_021163.1	Ca_kabuli_chr04	40765858	CC	TT	1946828187
SNP_P4_61670_40766101	NC_021163.1	Ca_kabuli_chr04	40766101	CC	TT	1946828189
SNP_P4_61671_40766168	NC_021163.1	Ca_kabuli_chr04	40766168	TT	AA	1946828191
SNP_P4_61672_40766172	NC_021163.1	Ca_kabuli_chr04	40766172	GG	AA	1946828193
SNP_P4_61673_40766406	NC_021163.1	Ca_kabuli_chr04	40766406	TT	CC	1946828195
SNP_P4_61674_40766692	NC_021163.1	Ca_kabuli_chr04	40766692	TT	CC	1946828197
SNP_P4_61675_40767261	NC_021163.1	Ca_kabuli_chr04	40767261	AA	TT	1946828199
SNP_P4_61676_40767283	NC_021163.1	Ca_kabuli_chr04	40767283	CC	GG	1946828201
SNP_P4_61677_40767764	NC_021163.1	Ca_kabuli_chr04	40767764	TT	AA	1946828203
SNP_P4_61679_40768047	NC_021163.1	Ca_kabuli_chr04	40768047	AA	TT	1946828205
SNP_P4_61680_40768072	NC_021163.1	Ca_kabuli_chr04	40768072	CC	TT	1946828207
SNP_P4_61681_40768110	NC_021163.1	Ca_kabuli_chr04	40768110	TT	GG	1946828209
SNP_P4_61682_40768114	NC_021163.1	Ca_kabuli_chr04	40768114	AA	CC	1946828211
SNP_P4_61683_40768128	NC_021163.1	Ca_kabuli_chr04	40768128	TT	CC	1946828213
SNP_P4_61684_40768134	NC_021163.1	Ca_kabuli_chr04	40768134	GG	AA	1946828215
SNP_P4_61685_40769101	NC_021163.1	Ca_kabuli_chr04	40769101	TT	AA	1946828217
SNP_P4_61686_40769103	NC_021163.1	Ca_kabuli_chr04	40769103	GG	TT	1946828218
SNP_P4_61689_40771285	NC_021163.1	Ca_kabuli_chr04	40771285	GG	AA	1946828219
SNP_P4_61690_40771356	NC_021163.1	Ca_kabuli_chr04	40771356	CC	TT	1946828220
SNP_P4_61691_40771388	NC_021163.1	Ca_kabuli_chr04	40771388	CC	GG	1946828221
SNP_P4_61692_40771433	NC_021163.1	Ca_kabuli_chr04	40771433	AA	GG	1946828222
SNP_P4_61693_40771550	NC_021163.1	Ca_kabuli_chr04	40771550	TT	CC	1946828223
SNP_P4_61694_40771763	NC_021163.1	Ca_kabuli_chr04	40771763	TT	GG	1946828224
SNP_P4_61695_40772598	NC_021163.1	Ca_kabuli_chr04	40772598	AA	GG	1946828226
SNP_P4_61696_40772615	NC_021163.1	Ca_kabuli_chr04	40772615	AA	GG	1946828228
SNP_P4_61697_40772617	NC_021163.1	Ca_kabuli_chr04	40772617	TT	CC	1946828230
SNP_P4_61698_40772656	NC_021163.1	Ca_kabuli_chr04	40772656	GG	AA	1946828232

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_61700_40772890	NC_021163.1	Ca_kabuli_chr04	40772890	CC	TT	1946828236
SNP_P4_61701_40772952	NC_021163.1	Ca_kabuli_chr04	40772952	AA	GG	1946828238
SNP_P4_61702_40772988	NC_021163.1	Ca_kabuli_chr04	40772988	CC	GG	1946828240
SNP_P4_61703_40772993	NC_021163.1	Ca_kabuli_chr04	40772993	GG	AA	1946828242
SNP_P4_61704_40773239	NC_021163.1	Ca_kabuli_chr04	40773239	CC	TT	1946828244
SNP_P4_61705_40773254	NC_021163.1	Ca_kabuli_chr04	40773254	GG	AA	1946828246
SNP_P4_61706_40773259	NC_021163.1	Ca_kabuli_chr04	40773259	GG	TT	1946828248
SNP_P4_61707_40773273	NC_021163.1	Ca_kabuli_chr04	40773273	AA	GG	1946828250
SNP_P4_61708_40773294	NC_021163.1	Ca_kabuli_chr04	40773294	GG	AA	1946828252
SNP_P4_61709_40773919	NC_021163.1	Ca_kabuli_chr04	40773919	GG	AA	1946828254
SNP_P4_61710_40776363	NC_021163.1	Ca_kabuli_chr04	40776363	CC	TT	1946828256
SNP_P4_61711_40776379	NC_021163.1	Ca_kabuli_chr04	40776379	AA	GG	1946828258
SNP_P4_61712_40776380	NC_021163.1	Ca_kabuli_chr04	40776380	AA	GG	1946828260
SNP_P4_61713_40777538	NC_021163.1	Ca_kabuli_chr04	40777538	GG	TT	1946828262
SNP_P4_61714_40777585	NC_021163.1	Ca_kabuli_chr04	40777585	AA	CC	1946828264
SNP_P4_61715_40777655	NC_021163.1	Ca_kabuli_chr04	40777655	TT	AA	1946828266
SNP_P4_61716_40777681	NC_021163.1	Ca_kabuli_chr04	40777681	GG	AA	1946828268
SNP_P4_61717_40777877	NC_021163.1	Ca_kabuli_chr04	40777877	AA	GG	1946828270
SNP_P4_61718_40777918	NC_021163.1	Ca_kabuli_chr04	40777918	CC	TT	1946828272
SNP_P4_61719_40777956	NC_021163.1	Ca_kabuli_chr04	40777956	AA	CC	1946828274
SNP_P4_61720_40778021	NC_021163.1	Ca_kabuli_chr04	40778021	GG	AA	1946828276
SNP_P4_61721_40778024	NC_021163.1	Ca_kabuli_chr04	40778024	CC	TT	1946828278
SNP_P4_61722_40778095	NC_021163.1	Ca_kabuli_chr04	40778095	TT	CC	1946828280
SNP_P4_61723_40778134	NC_021163.1	Ca_kabuli_chr04	40778134	CC	GG	1946828282
SNP_P4_61724_40778234	NC_021163.1	Ca_kabuli_chr04	40778234	CC	TT	1946828284
SNP_P4_61725_40778251	NC_021163.1	Ca_kabuli_chr04	40778251	TT	GG	1946828286
SNP_P4_61726_40778365	NC_021163.1	Ca_kabuli_chr04	40778365	CC	TT	1946828288
SNP_P4_61727_40778609	NC_021163.1	Ca_kabuli_chr04	40778609	AA	GG	1946828290
SNP_P4_61728_40778610	NC_021163.1	Ca_kabuli_chr04	40778610	GG	AA	1946828292
SNP_P4_61730_40778783	NC_021163.1	Ca_kabuli_chr04	40778783	TT	GG	1946828294
SNP_P4_61731_40778884	NC_021163.1	Ca_kabuli_chr04	40778884	GG	AA	1946828296
SNP_P4_61732_40779754	NC_021163.1	Ca_kabuli_chr04	40779754	GG	AA	1946828298
SNP_P4_61733_40781593	NC_021163.1	Ca_kabuli_chr04	40781593	CC	TT	1946828300
SNP_P4_61734_40781831	NC_021163.1	Ca_kabuli_chr04	40781831	AA	GG	1946828302
SNP_P4_61735_40781881	NC_021163.1	Ca_kabuli_chr04	40781881	GG	TT	1946828304
SNP_P4_61736_40781891	NC_021163.1	Ca_kabuli_chr04	40781891	GG	AA	1946828306
SNP_P4_61737_40781928	NC_021163.1	Ca_kabuli_chr04	40781928	AA	CC	1946828308
SNP_P4_61738_40782219	NC_021163.1	Ca_kabuli_chr04	40782219	AA	GG	1946828310
SNP_P4_61739_40782220	NC_021163.1	Ca_kabuli_chr04	40782220	CC	TT	1946828312
SNP_P4_61740_40783269	NC_021163.1	Ca_kabuli_chr04	40783269	CC	TT	1946828314
SNP_P4_61741_40783296	NC_021163.1	Ca_kabuli_chr04	40783296	AA	GG	1946828316

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_61744_40785145	NC_021163.1	Ca_kabuli_chr04	40785145	AA	GG	1946828320
SNP_P4_61745_40785351	NC_021163.1	Ca_kabuli_chr04	40785351	CC	TT	1946828322
SNP_P4_61747_40786760	NC_021163.1	Ca_kabuli_chr04	40786760	TT	CC	1946828324
SNP_P4_61748_40787980	NC_021163.1	Ca_kabuli_chr04	40787980	GG	AA	1946828326
SNP_P4_61749_40789753	NC_021163.1	Ca_kabuli_chr04	40789753	CC	AA	1946828328
SNP_P4_61750_40789969	NC_021163.1	Ca_kabuli_chr04	40789969	GG	TT	1946828330
SNP_P4_61751_40790011	NC_021163.1	Ca_kabuli_chr04	40790011	CC	GG	1946828332
SNP_P4_61753_40790489	NC_021163.1	Ca_kabuli_chr04	40790489	AA	TT	1946828334
SNP_P4_61754_40790490	NC_021163.1	Ca_kabuli_chr04	40790490	TT	GG	1946828336
SNP_P4_61755_40793380	NC_021163.1	Ca_kabuli_chr04	40793380	AA	GG	1946828338
SNP_P4_61756_40793681	NC_021163.1	Ca_kabuli_chr04	40793681	AA	GG	1946828340
SNP_P4_61758_40794676	NC_021163.1	Ca_kabuli_chr04	40794676	TT	AA	1946828342
SNP_P4_61759_40795306	NC_021163.1	Ca_kabuli_chr04	40795306	CC	GG	1946828344
SNP_P4_61760_40795319	NC_021163.1	Ca_kabuli_chr04	40795319	TT	CC	1946828346
SNP_P4_61761_40795384	NC_021163.1	Ca_kabuli_chr04	40795384	CC	TT	1946828348
SNP_P4_61762_40795668	NC_021163.1	Ca_kabuli_chr04	40795668	AA	GG	1946828350
SNP_P4_61763_40795670	NC_021163.1	Ca_kabuli_chr04	40795670	CC	GG	1946828352
SNP_P4_61764_40795672	NC_021163.1	Ca_kabuli_chr04	40795672	AA	GG	1946828354
SNP_P4_61765_40795699	NC_021163.1	Ca_kabuli_chr04	40795699	AA	GG	1946828356
SNP_P4_61766_40797201	NC_021163.1	Ca_kabuli_chr04	40797201	TT	CC	1946828358
SNP_P4_61767_40797216	NC_021163.1	Ca_kabuli_chr04	40797216	GG	TT	1946828360
SNP_P4_61768_40797225	NC_021163.1	Ca_kabuli_chr04	40797225	AA	GG	1946828362
SNP_P4_61769_40797583	NC_021163.1	Ca_kabuli_chr04	40797583	CC	TT	1946828364
SNP_P4_61770_40797846	NC_021163.1	Ca_kabuli_chr04	40797846	AA	GG	1946828366
SNP_P4_61771_40798847	NC_021163.1	Ca_kabuli_chr04	40798847	CC	TT	1946828368
SNP_P4_61772_40798849	NC_021163.1	Ca_kabuli_chr04	40798849	AA	GG	1946828370
SNP_P4_61773_40799039	NC_021163.1	Ca_kabuli_chr04	40799039	AA	TT	1946828372
SNP_P4_61774_40799069	NC_021163.1	Ca_kabuli_chr04	40799069	AA	GG	1946828374
SNP_P4_61775_40799325	NC_021163.1	Ca_kabuli_chr04	40799325	AA	CC	1946828376
SNP_P4_61776_40799656	NC_021163.1	Ca_kabuli_chr04	40799656	TT	CC	1946828378
SNP_P4_61779_40801999	NC_021163.1	Ca_kabuli_chr04	40801999	AA	GG	1946828380
SNP_P4_61780_40802335	NC_021163.1	Ca_kabuli_chr04	40802335	TT	AA	1946828382
SNP_P4_61782_40803608	NC_021163.1	Ca_kabuli_chr04	40803608	TT	AA	1946828384
SNP_P4_61783_40803611	NC_021163.1	Ca_kabuli_chr04	40803611	CC	TT	1946828386
SNP_P4_61784_40803646	NC_021163.1	Ca_kabuli_chr04	40803646	TT	GG	1946828388
SNP_P4_61785_40803799	NC_021163.1	Ca_kabuli_chr04	40803799	GG	TT	1946828390
SNP_P4_61786_40804138	NC_021163.1	Ca_kabuli_chr04	40804138	TT	GG	1946828392
SNP_P4_61787_40804861	NC_021163.1	Ca_kabuli_chr04	40804861	TT	CC	1946828394
SNP_P4_61788_40804893	NC_021163.1	Ca_kabuli_chr04	40804893	TT	CC	1946828396
SNP_P4_61789_40805835	NC_021163.1	Ca_kabuli_chr04	40805835	AA	CC	1946828398
SNP_P4_61790_40805839	NC_021163.1	Ca_kabuli_chr04	40805839	CC	TT	1946828400

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_61792_40806274	NC_021163.1	Ca_kabuli_chr04	40806274	AA	GG	1946828404
SNP_P4_61793_40807053	NC_021163.1	Ca_kabuli_chr04	40807053	TT	GG	1946828406
SNP_P4_61794_40807183	NC_021163.1	Ca_kabuli_chr04	40807183	CC	TT	1946828408
SNP_P4_61795_40808210	NC_021163.1	Ca_kabuli_chr04	40808210	CC	AA	1946828410
SNP_P4_61796_40808235	NC_021163.1	Ca_kabuli_chr04	40808235	AA	GG	1946828412
SNP_P4_61797_40808405	NC_021163.1	Ca_kabuli_chr04	40808405	CC	GG	1946828414
SNP_P4_61798_40808411	NC_021163.1	Ca_kabuli_chr04	40808411	TT	GG	1946828416
SNP_P4_61799_40808449	NC_021163.1	Ca_kabuli_chr04	40808449	TT	AA	1946828418
SNP_P4_61800_40808617	NC_021163.1	Ca_kabuli_chr04	40808617	CC	TT	1946828420
SNP_P4_61801_40808637	NC_021163.1	Ca_kabuli_chr04	40808637	GG	AA	1946828422
SNP_P4_61802_40808664	NC_021163.1	Ca_kabuli_chr04	40808664	TT	CC	1946828424
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SNP_P4_61804_40808864	NC_021163.1	Ca_kabuli_chr04	40808864	CC	GG	1946828428
SNP_P4_61805_40808873	NC_021163.1	Ca_kabuli_chr04	40808873	GG	AA	1946828430
SNP_P4_61806_40809006	NC_021163.1	Ca_kabuli_chr04	40809006	AA	GG	1946828432
SNP_P4_61807_40809304	NC_021163.1	Ca_kabuli_chr04	40809304	AA	GG	1946828434
SNP_P4_61808_40811304	NC_021163.1	Ca_kabuli_chr04	40811304	GG	CC	1946828436
SNP_P4_61809_40811598	NC_021163.1	Ca_kabuli_chr04	40811598	TT	CC	1946828438
SNP_P4_61811_40811689	NC_021163.1	Ca_kabuli_chr04	40811689	GG	TT	1946828440
SNP_P4_61812_40811698	NC_021163.1	Ca_kabuli_chr04	40811698	AA	GG	1946828442
SNP_P4_61813_40811701	NC_021163.1	Ca_kabuli_chr04	40811701	CC	AA	1946828444
SNP_P4_61814_40811720	NC_021163.1	Ca_kabuli_chr04	40811720	AA	GG	1946828446
SNP_P4_61815_40811759	NC_021163.1	Ca_kabuli_chr04	40811759	AA	GG	1946828448
SNP_P4_61816_40811823	NC_021163.1	Ca_kabuli_chr04	40811823	TT	CC	1946828450
SNP_P4_61817_40811850	NC_021163.1	Ca_kabuli_chr04	40811850	GG	AA	1946828452
SNP_P4_61818_40811851	NC_021163.1	Ca_kabuli_chr04	40811851	CC	TT	1946828454
SNP_P4_61819_40811956	NC_021163.1	Ca_kabuli_chr04	40811956	GG	AA	1946828455
SNP_P4_61820_40812029	NC_021163.1	Ca_kabuli_chr04	40812029	TT	GG	1946828457
SNP_P4_61821_40812086	NC_021163.1	Ca_kabuli_chr04	40812086	CC	TT	1946828459
SNP_P4_61822_40812123	NC_021163.1	Ca_kabuli_chr04	40812123	GG	CC	1946828461
SNP_P4_61823_40817132	NC_021163.1	Ca_kabuli_chr04	40817132	CC	TT	1946828463
SNP_P4_61824_40817441	NC_021163.1	Ca_kabuli_chr04	40817441	AA	CC	1946828465
SNP_P4_61825_40817510	NC_021163.1	Ca_kabuli_chr04	40817510	TT	CC	1946828467
SNP_P4_61826_40817911	NC_021163.1	Ca_kabuli_chr04	40817911	AA	GG	1946828469
SNP_P4_61827_40817933	NC_021163.1	Ca_kabuli_chr04	40817933	AA	GG	1946828471
SNP_P4_61828_40817985	NC_021163.1	Ca_kabuli_chr04	40817985	GG	AA	1946828473
SNP_P4_61829_40818184	NC_021163.1	Ca_kabuli_chr04	40818184	AA	GG	1946828475
SNP_P4_61832_40821076	NC_021163.1	Ca_kabuli_chr04	40821076	AA	GG	1946828477
SNP_P4_61833_40821276	NC_021163.1	Ca_kabuli_chr04	40821276	GG	AA	1946828479
SNP_P4_61834_40822141	NC_021163.1	Ca_kabuli_chr04	40822141	TT	GG	1946828481
SNP_P4_61835_40822439	NC_021163.1	Ca_kabuli_chr04	40822439	TT	CC	1946828483

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_61837_40828629	NC_021163.1	Ca_kabuli_chr04	40828629	CC	TT	1946828487
SNP_P4_61838_40829302	NC_021163.1	Ca_kabuli_chr04	40829302	GG	AA	1946828489
SNP_P4_61839_40829652	NC_021163.1	Ca_kabuli_chr04	40829652	TT	CC	1946828491
SNP_P4_61840_40829771	NC_021163.1	Ca_kabuli_chr04	40829771	TT	CC	1946828493
SNP_P4_61841_40832447	NC_021163.1	Ca_kabuli_chr04	40832447	GG	TT	1946828495
SNP_P4_61843_40833489	NC_021163.1	Ca_kabuli_chr04	40833489	GG	AA	1946828497
SNP_P4_61844_40834901	NC_021163.1	Ca_kabuli_chr04	40834901	CC	TT	1946828499
SNP_P4_61845_40835680	NC_021163.1	Ca_kabuli_chr04	40835680	TT	CC	1946828501
SNP_P4_61846_40837373	NC_021163.1	Ca_kabuli_chr04	40837373	AA	TT	1946828503
SNP_P4_61847_40837626	NC_021163.1	Ca_kabuli_chr04	40837626	AA	TT	1946828505
SNP_P4_61848_40837934	NC_021163.1	Ca_kabuli_chr04	40837934	AA	GG	1946828507
SNP_P4_61849_40838150	NC_021163.1	Ca_kabuli_chr04	40838150	GG	TT	1946828509
SNP_P4_61850_40838170	NC_021163.1	Ca_kabuli_chr04	40838170	GG	CC	1946828511
SNP_P4_61851_40838204	NC_021163.1	Ca_kabuli_chr04	40838204	TT	AA	1946828513
SNP_P4_61852_40838339	NC_021163.1	Ca_kabuli_chr04	40838339	AA	GG	1946828515
SNP_P4_61854_40838999	NC_021163.1	Ca_kabuli_chr04	40838999	TT	GG	1946828517
SNP_P4_61855_40839005	NC_021163.1	Ca_kabuli_chr04	40839005	AA	CC	1946828519
SNP_P4_61856_40839623	NC_021163.1	Ca_kabuli_chr04	40839623	AA	TT	1946828521
SNP_P4_61857_40841182	NC_021163.1	Ca_kabuli_chr04	40841182	AA	GG	1946828523
SNP_P4_61858_40841360	NC_021163.1	Ca_kabuli_chr04	40841360	CC	TT	1946828525
SNP_P4_61859_40841449	NC_021163.1	Ca_kabuli_chr04	40841449	TT	CC	1946828527
SNP_P4_61860_40841477	NC_021163.1	Ca_kabuli_chr04	40841477	TT	AA	1946828529
SNP_P4_61861_40841567	NC_021163.1	Ca_kabuli_chr04	40841567	CC	GG	1946828531
SNP_P4_61864_40843882	NC_021163.1	Ca_kabuli_chr04	40843882	TT	AA	1946828533
SNP_P4_61866_40843965	NC_021163.1	Ca_kabuli_chr04	40843965	GG	TT	1946828535
SNP_P4_61867_40843999	NC_021163.1	Ca_kabuli_chr04	40843999	CC	TT	1946828537
SNP_P4_61868_40844259	NC_021163.1	Ca_kabuli_chr04	40844259	GG	AA	1946828539
SNP_P4_61869_40844264	NC_021163.1	Ca_kabuli_chr04	40844264	GG	AA	1946828541
SNP_P4_61870_40844701	NC_021163.1	Ca_kabuli_chr04	40844701	TT	CC	1946828543
SNP_P4_61871_40844706	NC_021163.1	Ca_kabuli_chr04	40844706	CC	GG	1946828545
SNP_P4_61872_40844708	NC_021163.1	Ca_kabuli_chr04	40844708	CC	AA	1946828547
SNP_P4_61874_40845350	NC_021163.1	Ca_kabuli_chr04	40845350	TT	AA	1946828549
SNP_P4_61875_40845641	NC_021163.1	Ca_kabuli_chr04	40845641	CC	AA	1946828551
SNP_P4_61876_40845794	NC_021163.1	Ca_kabuli_chr04	40845794	GG	AA	1946828553
SNP_P4_61878_40847836	NC_021163.1	Ca_kabuli_chr04	40847836	TT	CC	1946828555
SNP_P4_61879_40848091	NC_021163.1	Ca_kabuli_chr04	40848091	AA	GG	1946828557
SNP_P4_61880_40848207	NC_021163.1	Ca_kabuli_chr04	40848207	AA	GG	1946828559
SNP_P4_61881_40848615	NC_021163.1	Ca_kabuli_chr04	40848615	CC	TT	1946828561
SNP_P4_61882_40848951	NC_021163.1	Ca_kabuli_chr04	40848951	CC	TT	1946828563
SNP_P4_61883_40852144	NC_021163.1	Ca_kabuli_chr04	40852144	TT	CC	1946828565
SNP_P4_61884_40852149	NC_021163.1	Ca_kabuli_chr04	40852149	AA	GG	1946828567

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_61885_40853638	NC_021163.1	Ca_kabuli_chr04	40853638	TT	CC	1946828569
SNP_P4_61886_40853644	NC_021163.1	Ca_kabuli_chr04	40853644	AA	TT	1946828571
SNP_P4_61887_40853653	NC_021163.1	Ca_kabuli_chr04	40853653	GG	CC	1946828573
SNP_P4_61890_40880003	NC_021163.1	Ca_kabuli_chr04	40880003	AA	GG	1946828575
SNP_P4_61891_40880048	NC_021163.1	Ca_kabuli_chr04	40880048	CC	AA	1946828577
SNP_P4_61892_40880256	NC_021163.1	Ca_kabuli_chr04	40880256	CC	AA	1946828579
SNP_P4_61894_40880313	NC_021163.1	Ca_kabuli_chr04	40880313	CC	TT	1946828581
SNP_P4_61895_40880333	NC_021163.1	Ca_kabuli_chr04	40880333	CC	GG	1946828583
SNP_P4_61896_40881402	NC_021163.1	Ca_kabuli_chr04	40881402	AA	TT	1946828585
SNP_P4_61898_40883688	NC_021163.1	Ca_kabuli_chr04	40883688	TT	CC	1946828587
SNP_P4_61899_40885199	NC_021163.1	Ca_kabuli_chr04	40885199	GG	AA	1946828589
SNP_P4_61900_40885216	NC_021163.1	Ca_kabuli_chr04	40885216	CC	TT	1946828591
SNP_P4_61901_40885225	NC_021163.1	Ca_kabuli_chr04	40885225	TT	CC	1946828593
SNP_P4_61902_40886552	NC_021163.1	Ca_kabuli_chr04	40886552	AA	GG	1946828595
SNP_P4_61903_40887191	NC_021163.1	Ca_kabuli_chr04	40887191	AA	TT	1946828597
SNP_P4_61904_40887274	NC_021163.1	Ca_kabuli_chr04	40887274	CC	TT	1946828599
SNP_P4_61905_40890654	NC_021163.1	Ca_kabuli_chr04	40890654	CC	GG	1946828601
SNP_P4_61906_40890713	NC_021163.1	Ca_kabuli_chr04	40890713	AA	CC	1946828603
SNP_P4_61907_40891118	NC_021163.1	Ca_kabuli_chr04	40891118	AA	GG	1946828605
SNP_P4_61908_40891375	NC_021163.1	Ca_kabuli_chr04	40891375	AA	TT	1946828607
SNP_P4_61909_40891595	NC_021163.1	Ca_kabuli_chr04	40891595	TT	CC	1946828609
SNP_P4_61912_40892356	NC_021163.1	Ca_kabuli_chr04	40892356	GG	TT	1946828611
SNP_P4_61913_40892398	NC_021163.1	Ca_kabuli_chr04	40892398	AA	GG	1946828613
SNP_P4_61914_40892578	NC_021163.1	Ca_kabuli_chr04	40892578	CC	TT	1946828615
SNP_P4_61915_40892582	NC_021163.1	Ca_kabuli_chr04	40892582	TT	AA	1946828617
SNP_P4_61916_40893185	NC_021163.1	Ca_kabuli_chr04	40893185	AA	TT	1946828619
SNP_P4_61917_40893467	NC_021163.1	Ca_kabuli_chr04	40893467	CC	AA	1946828621
SNP_P4_61918_40893469	NC_021163.1	Ca_kabuli_chr04	40893469	AA	CC	1946828623
SNP_P4_61920_40893646	NC_021163.1	Ca_kabuli_chr04	40893646	TT	CC	1946828625
SNP_P4_61921_40893665	NC_021163.1	Ca_kabuli_chr04	40893665	TT	AA	1946828627
SNP_P4_61922_40893700	NC_021163.1	Ca_kabuli_chr04	40893700	TT	CC	1946828629
SNP_P4_61923_40895080	NC_021163.1	Ca_kabuli_chr04	40895080	GG	AA	1946828631
SNP_P4_61924_40895084	NC_021163.1	Ca_kabuli_chr04	40895084	GG	CC	1946828633
SNP_P4_61925_40895265	NC_021163.1	Ca_kabuli_chr04	40895265	AA	GG	1946828635
SNP_P4_61926_40895283	NC_021163.1	Ca_kabuli_chr04	40895283	CC	TT	1946828637
SNP_P4_61927_40895330	NC_021163.1	Ca_kabuli_chr04	40895330	AA	GG	1946828639
SNP_P4_61929_40895441	NC_021163.1	Ca_kabuli_chr04	40895441	AA	GG	1946828641
SNP_P4_61930_40895490	NC_021163.1	Ca_kabuli_chr04	40895490	CC	TT	1946828643
SNP_P4_61931_40895755	NC_021163.1	Ca_kabuli_chr04	40895755	GG	AA	1946828645
SNP_P4_61933_40896563	NC_021163.1	Ca_kabuli_chr04	40896563	CC	TT	1946828647
SNP_P4_61934_40896605	NC_021163.1	Ca_kabuli_chr04	40896605	AA	GG	1946828649
SNP_P4_61935_40897429	NC_021163.1	Ca_kabuli_chr04	40897429	CC	TT	1946828651

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_61936_40900608	NC_021163.1	Ca_kabuli_chr04	40900608	AA	TT	1946828653
SNP_P4_61937_40900768	NC_021163.1	Ca_kabuli_chr04	40900768	TT	AA	1946828655
SNP_P4_61938_40900792	NC_021163.1	Ca_kabuli_chr04	40900792	TT	GG	1946828657
SNP_P4_61939_40900844	NC_021163.1	Ca_kabuli_chr04	40900844	CC	TT	1946828659
SNP_P4_61940_40901327	NC_021163.1	Ca_kabuli_chr04	40901327	CC	TT	1946828661
SNP_P4_61941_40901330	NC_021163.1	Ca_kabuli_chr04	40901330	CC	TT	1946828663
SNP_P4_61942_40901952	NC_021163.1	Ca_kabuli_chr04	40901952	GG	TT	1946828666
SNP_P4_61943_40906914	NC_021163.1	Ca_kabuli_chr04	40906914	AA	GG	1946828668
SNP_P4_61944_40907733	NC_021163.1	Ca_kabuli_chr04	40907733	GG	AA	1946828670
SNP_P4_61945_40907743	NC_021163.1	Ca_kabuli_chr04	40907743	CC	TT	1946828672
SNP_P4_61946_40907751	NC_021163.1	Ca_kabuli_chr04	40907751	AA	GG	1946828674
SNP_P4_61947_40907831	NC_021163.1	Ca_kabuli_chr04	40907831	TT	AA	1946828676
SNP_P4_61948_40908249	NC_021163.1	Ca_kabuli_chr04	40908249	TT	AA	1946828678
SNP_P4_61949_40909046	NC_021163.1	Ca_kabuli_chr04	40909046	GG	CC	1946828680
SNP_P4_61950_40909585	NC_021163.1	Ca_kabuli_chr04	40909585	TT	CC	1946828681
SNP_P4_61951_40911100	NC_021163.1	Ca_kabuli_chr04	40911100	GG	TT	1946828684
SNP_P4_61952_40911179	NC_021163.1	Ca_kabuli_chr04	40911179	TT	CC	1946828686
SNP_P4_61953_40911192	NC_021163.1	Ca_kabuli_chr04	40911192	GG	AA	1946828688
SNP_P4_61954_40911207	NC_021163.1	Ca_kabuli_chr04	40911207	GG	TT	1946828690
SNP_P4_61955_40911249	NC_021163.1	Ca_kabuli_chr04	40911249	TT	CC	1946828692
SNP_P4_61956_40912089	NC_021163.1	Ca_kabuli_chr04	40912089	AA	CC	1946828694
SNP_P4_61957_40913200	NC_021163.1	Ca_kabuli_chr04	40913200	GG	CC	1946828696
SNP_P4_61958_40914583	NC_021163.1	Ca_kabuli_chr04	40914583	TT	CC	1946828698
SNP_P4_61959_40914691	NC_021163.1	Ca_kabuli_chr04	40914691	CC	GG	1946828701
SNP_P4_61960_40916282	NC_021163.1	Ca_kabuli_chr04	40916282	AA	TT	1946828703
SNP_P4_61961_40917071	NC_021163.1	Ca_kabuli_chr04	40917071	AA	GG	1946828705
SNP_P4_61962_40919728	NC_021163.1	Ca_kabuli_chr04	40919728	AA	TT	1946828708
SNP_P4_61963_40920837	NC_021163.1	Ca_kabuli_chr04	40920837	CC	AA	1946828710
SNP_P4_61964_40920868	NC_021163.1	Ca_kabuli_chr04	40920868	GG	AA	1946828712
SNP_P4_61965_40920871	NC_021163.1	Ca_kabuli_chr04	40920871	AA	TT	1946828714
SNP_P4_61966_40920893	NC_021163.1	Ca_kabuli_chr04	40920893	TT	CC	1946828716
SNP_P4_61967_40920895	NC_021163.1	Ca_kabuli_chr04	40920895	TT	GG	1946828718
SNP_P4_61968_40921172	NC_021163.1	Ca_kabuli_chr04	40921172	TT	CC	1946828721
SNP_P4_61969_40921218	NC_021163.1	Ca_kabuli_chr04	40921218	GG	TT	1946828723
SNP_P4_61970_40921239	NC_021163.1	Ca_kabuli_chr04	40921239	GG	TT	1946828725
SNP_P4_61971_40921610	NC_021163.1	Ca_kabuli_chr04	40921610	CC	TT	1946828727
SNP_P4_61972_40921923	NC_021163.1	Ca_kabuli_chr04	40921923	AA	TT	1946828729
SNP_P4_61973_40922213	NC_021163.1	Ca_kabuli_chr04	40922213	AA	TT	1946828731
SNP_P4_61975_40924297	NC_021163.1	Ca_kabuli_chr04	40924297	GG	AA	1946828733
SNP_P4_61976_40924673	NC_021163.1	Ca_kabuli_chr04	40924673	GG	AA	1946828735
SNP_P4_61977_40926669	NC_021163.1	Ca_kabuli_chr04	40926669	GG	AA	1946828737
SNP_P4_61978_40927093	NC_021163.1	Ca_kabuli_chr04	40927093	GG	AA	1946828739

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_61980_40927622	NC_021163.1	Ca_kabuli_chr04	40927622	AA	GG	1946828743
SNP_P4_61981_40927717	NC_021163.1	Ca_kabuli_chr04	40927717	TT	CC	1946828745
SNP_P4_61982_40929043	NC_021163.1	Ca_kabuli_chr04	40929043	AA	GG	1946828747
SNP_P4_61985_40929446	NC_021163.1	Ca_kabuli_chr04	40929446	GG	AA	1946828749
SNP_P4_61986_40929655	NC_021163.1	Ca_kabuli_chr04	40929655	CC	AA	1946828751
SNP_P4_61987_40929674	NC_021163.1	Ca_kabuli_chr04	40929674	AA	GG	1946828753
SNP_P4_61988_40930911	NC_021163.1	Ca_kabuli_chr04	40930911	GG	TT	1946828755
SNP_P4_61989_40931385	NC_021163.1	Ca_kabuli_chr04	40931385	TT	CC	1946828757
SNP_P4_61990_40931418	NC_021163.1	Ca_kabuli_chr04	40931418	CC	AA	1946828759
SNP_P4_61991_40931433	NC_021163.1	Ca_kabuli_chr04	40931433	AA	CC	1946828762
SNP_P4_61992_40931961	NC_021163.1	Ca_kabuli_chr04	40931961	AA	TT	1946828764
SNP_P4_61993_40933534	NC_021163.1	Ca_kabuli_chr04	40933534	CC	AA	1946828766
SNP_P4_61994_40933554	NC_021163.1	Ca_kabuli_chr04	40933554	AA	TT	1946828768
SNP_P4_61995_40933873	NC_021163.1	Ca_kabuli_chr04	40933873	AA	GG	1946828770
SNP_P4_61996_40933879	NC_021163.1	Ca_kabuli_chr04	40933879	CC	TT	1946828772
SNP_P4_61998_40934492	NC_021163.1	Ca_kabuli_chr04	40934492	TT	CC	1946828774
SNP_P4_61999_40934525	NC_021163.1	Ca_kabuli_chr04	40934525	AA	GG	1946828776
SNP_P4_62000_40934576	NC_021163.1	Ca_kabuli_chr04	40934576	CC	TT	1946828778
SNP_P4_62001_40935877	NC_021163.1	Ca_kabuli_chr04	40935877	CC	TT	1946828780
SNP_P4_62003_40937520	NC_021163.1	Ca_kabuli_chr04	40937520	TT	AA	1946828782
SNP_P4_62004_40937526	NC_021163.1	Ca_kabuli_chr04	40937526	CC	TT	1946828784
SNP_P4_62005_40937527	NC_021163.1	Ca_kabuli_chr04	40937527	GG	AA	1946828786
SNP_P4_62006_40937591	NC_021163.1	Ca_kabuli_chr04	40937591	AA	TT	1946828788
SNP_P4_62007_40937597	NC_021163.1	Ca_kabuli_chr04	40937597	TT	CC	1946828790
SNP_P4_62008_40937605	NC_021163.1	Ca_kabuli_chr04	40937605	CC	TT	1946828793
SNP_P4_62009_40937614	NC_021163.1	Ca_kabuli_chr04	40937614	GG	AA	1946828795
SNP_P4_62010_40937628	NC_021163.1	Ca_kabuli_chr04	40937628	AA	GG	1946828797
SNP_P4_62011_40937730	NC_021163.1	Ca_kabuli_chr04	40937730	GG	AA	1946828799
SNP_P4_62012_40937761	NC_021163.1	Ca_kabuli_chr04	40937761	CC	AA	1946828801
SNP_P4_62013_40937762	NC_021163.1	Ca_kabuli_chr04	40937762	GG	AA	1946828803
SNP_P4_62014_40939087	NC_021163.1	Ca_kabuli_chr04	40939087	CC	TT	1946828805
SNP_P4_62015_40939995	NC_021163.1	Ca_kabuli_chr04	40939995	GG	AA	1946828807
SNP_P4_62016_40940040	NC_021163.1	Ca_kabuli_chr04	40940040	AA	CC	1946828809
SNP_P4_62017_40940108	NC_021163.1	Ca_kabuli_chr04	40940108	TT	AA	1946828811
SNP_P4_62019_40940259	NC_021163.1	Ca_kabuli_chr04	40940259	GG	AA	1946828813
SNP_P4_62020_40941094	NC_021163.1	Ca_kabuli_chr04	40941094	AA	TT	1946828815
SNP_P4_62021_40941283	NC_021163.1	Ca_kabuli_chr04	40941283	GG	AA	1946828817
SNP_P4_62022_40945496	NC_021163.1	Ca_kabuli_chr04	40945496	GG	AA	1946828819
SNP_P4_62023_40947303	NC_021163.1	Ca_kabuli_chr04	40947303	AA	GG	1946828821
SNP_P4_62024_40947331	NC_021163.1	Ca_kabuli_chr04	40947331	GG	AA	1946828823
SNP_P4_62025_40947332	NC_021163.1	Ca_kabuli_chr04	40947332	GG	TT	1946828825

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_62026_40947341	NC_021163.1	Ca_kabuli_chr04	40947341	GG	AA	1946828827
SNP_P4_62027_40947377	NC_021163.1	Ca_kabuli_chr04	40947377	GG	TT	1946828829
SNP_P4_62028_40947697	NC_021163.1	Ca_kabuli_chr04	40947697	CC	TT	1946828831
SNP_P4_62029_40948368	NC_021163.1	Ca_kabuli_chr04	40948368	GG	CC	1946828833
SNP_P4_62030_40948386	NC_021163.1	Ca_kabuli_chr04	40948386	GG	AA	1946828835
SNP_P4_62032_40949619	NC_021163.1	Ca_kabuli_chr04	40949619	CC	TT	1946828837
SNP_P4_62033_40949946	NC_021163.1	Ca_kabuli_chr04	40949946	GG	CC	1946828839
SNP_P4_62034_40949948	NC_021163.1	Ca_kabuli_chr04	40949948	GG	TT	1946828841
SNP_P4_62035_40949965	NC_021163.1	Ca_kabuli_chr04	40949965	TT	AA	1946828843
SNP_P4_62036_40949986	NC_021163.1	Ca_kabuli_chr04	40949986	CC	TT	1946828845
SNP_P4_62037_40950190	NC_021163.1	Ca_kabuli_chr04	40950190	CC	TT	1946828847
SNP_P4_62038_40953765	NC_021163.1	Ca_kabuli_chr04	40953765	GG	AA	1946828849
SNP_P4_62039_40953773	NC_021163.1	Ca_kabuli_chr04	40953773	CC	TT	1946828851
SNP_P4_62040_40955460	NC_021163.1	Ca_kabuli_chr04	40955460	AA	CC	1946828853
SNP_P4_62042_40955494	NC_021163.1	Ca_kabuli_chr04	40955494	AA	GG	1946828855
SNP_P4_62043_40955730	NC_021163.1	Ca_kabuli_chr04	40955730	CC	TT	1946828857
SNP_P4_62044_40955742	NC_021163.1	Ca_kabuli_chr04	40955742	GG	AA	1946828859
SNP_P4_62045_40955748	NC_021163.1	Ca_kabuli_chr04	40955748	AA	TT	1946828862
SNP_P4_62046_40955758	NC_021163.1	Ca_kabuli_chr04	40955758	AA	GG	1946828864
SNP_P4_62047_40955767	NC_021163.1	Ca_kabuli_chr04	40955767	AA	GG	1946828866
SNP_P4_62048_40955814	NC_021163.1	Ca_kabuli_chr04	40955814	AA	GG	1946828868
SNP_P4_62049_40955823	NC_021163.1	Ca_kabuli_chr04	40955823	TT	CC	1946828870
SNP_P4_62050_40955834	NC_021163.1	Ca_kabuli_chr04	40955834	CC	TT	1946828872
SNP_P4_62051_40956033	NC_021163.1	Ca_kabuli_chr04	40956033	AA	GG	1946828874
SNP_P4_62052_40956100	NC_021163.1	Ca_kabuli_chr04	40956100	AA	GG	1946828876
SNP_P4_62053_40956105	NC_021163.1	Ca_kabuli_chr04	40956105	TT	CC	1946828878
SNP_P4_62054_40957349	NC_021163.1	Ca_kabuli_chr04	40957349	GG	TT	1946828880
SNP_P4_62055_40959464	NC_021163.1	Ca_kabuli_chr04	40959464	AA	GG	1946828882
SNP_P4_62056_40959470	NC_021163.1	Ca_kabuli_chr04	40959470	TT	CC	1946828884
SNP_P4_62057_40959845	NC_021163.1	Ca_kabuli_chr04	40959845	AA	GG	1946828886
SNP_P4_62058_40960858	NC_021163.1	Ca_kabuli_chr04	40960858	TT	CC	1946828888
SNP_P4_62059_40960915	NC_021163.1	Ca_kabuli_chr04	40960915	CC	AA	1946828890
SNP_P4_62060_40961614	NC_021163.1	Ca_kabuli_chr04	40961614	AA	CC	1946828892
SNP_P4_62061_40961617	NC_021163.1	Ca_kabuli_chr04	40961617	AA	TT	1946828894
SNP_P4_62062_40961676	NC_021163.1	Ca_kabuli_chr04	40961676	GG	AA	1946828896
SNP_P4_62063_40961684	NC_021163.1	Ca_kabuli_chr04	40961684	AA	GG	1946828898
SNP_P4_62064_40961709	NC_021163.1	Ca_kabuli_chr04	40961709	AA	GG	1946828900
SNP_P4_62065_40961793	NC_021163.1	Ca_kabuli_chr04	40961793	AA	GG	1946828902
SNP_P4_62066_40961903	NC_021163.1	Ca_kabuli_chr04	40961903	CC	AA	1946828905
SNP_P4_62067_40961963	NC_021163.1	Ca_kabuli_chr04	40961963	AA	TT	1946828907
SNP_P4_62068_40962565	NC_021163.1	Ca_kabuli_chr04	40962565	CC	AA	1946828909
SNP_P4_62069_40962727	NC_021163.1	Ca_kabuli_chr04	40962727	TT	CC	1946828911

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_62070_40963185	NC_021163.1	Ca_kabuli_chr04	40963185	AA	GG	1946828913
SNP_P4_62071_40963211	NC_021163.1	Ca_kabuli_chr04	40963211	GG	TT	1946828915
SNP_P4_62072_40963921	NC_021163.1	Ca_kabuli_chr04	40963921	CC	TT	1946828917
SNP_P4_62073_40963992	NC_021163.1	Ca_kabuli_chr04	40963992	GG	AA	1946828919
SNP_P4_62075_40964278	NC_021163.1	Ca_kabuli_chr04	40964278	AA	GG	1946828921
SNP_P4_62076_40964373	NC_021163.1	Ca_kabuli_chr04	40964373	CC	AA	1946828923
SNP_P4_62077_40964714	NC_021163.1	Ca_kabuli_chr04	40964714	AA	GG	1946828925
SNP_P4_62078_40965455	NC_021163.1	Ca_kabuli_chr04	40965455	TT	AA	1946828927
SNP_P4_62080_40967393	NC_021163.1	Ca_kabuli_chr04	40967393	CC	AA	1946828929
SNP_P4_62081_40967863	NC_021163.1	Ca_kabuli_chr04	40967863	AA	GG	1946828931
SNP_P4_62082_40968003	NC_021163.1	Ca_kabuli_chr04	40968003	AA	GG	1946828933
SNP_P4_62083_40968230	NC_021163.1	Ca_kabuli_chr04	40968230	CC	TT	1946828935
SNP_P4_62084_40968600	NC_021163.1	Ca_kabuli_chr04	40968600	CC	TT	1946828937
SNP_P4_62085_40968641	NC_021163.1	Ca_kabuli_chr04	40968641	GG	AA	1946828939
SNP_P4_62086_40968705	NC_021163.1	Ca_kabuli_chr04	40968705	GG	AA	1946828941
SNP_P4_62087_40968766	NC_021163.1	Ca_kabuli_chr04	40968766	CC	GG	1946828943
SNP_P4_62089_40969273	NC_021163.1	Ca_kabuli_chr04	40969273	TT	CC	1946828946
SNP_P4_62090_40969303	NC_021163.1	Ca_kabuli_chr04	40969303	AA	GG	1946828948
SNP_P4_62091_40969350	NC_021163.1	Ca_kabuli_chr04	40969350	TT	GG	1946828950
SNP_P4_62092_40969383	NC_021163.1	Ca_kabuli_chr04	40969383	AA	CC	1946828952
SNP_P4_62093_40969618	NC_021163.1	Ca_kabuli_chr04	40969618	GG	AA	1946828954
SNP_P4_62094_40969626	NC_021163.1	Ca_kabuli_chr04	40969626	CC	TT	1946828956
SNP_P4_62095_40970884	NC_021163.1	Ca_kabuli_chr04	40970884	AA	TT	1946828958
SNP_P4_62096_40972028	NC_021163.1	Ca_kabuli_chr04	40972028	CC	TT	1946828960
SNP_P4_62097_40972077	NC_021163.1	Ca_kabuli_chr04	40972077	AA	GG	1946828962
SNP_P4_62098_40972093	NC_021163.1	Ca_kabuli_chr04	40972093	AA	CC	1946828964
SNP_P4_62099_40972094	NC_021163.1	Ca_kabuli_chr04	40972094	TT	CC	1946828966
SNP_P4_62100_40972106	NC_021163.1	Ca_kabuli_chr04	40972106	AA	GG	1946828968
SNP_P4_62101_40972115	NC_021163.1	Ca_kabuli_chr04	40972115	TT	CC	1946828970
SNP_P4_62102_40972157	NC_021163.1	Ca_kabuli_chr04	40972157	AA	GG	1946828973
SNP_P4_62103_40972172	NC_021163.1	Ca_kabuli_chr04	40972172	TT	CC	1946828975
SNP_P4_62104_40972305	NC_021163.1	Ca_kabuli_chr04	40972305	AA	GG	1946828977
SNP_P4_62105_40972359	NC_021163.1	Ca_kabuli_chr04	40972359	TT	CC	1946828979
SNP_P4_62106_40974025	NC_021163.1	Ca_kabuli_chr04	40974025	GG	AA	1946828981
SNP_P4_62107_40975358	NC_021163.1	Ca_kabuli_chr04	40975358	AA	TT	1946828983
SNP_P4_62108_40975925	NC_021163.1	Ca_kabuli_chr04	40975925	CC	TT	1946828985
SNP_P4_62109_40977052	NC_021163.1	Ca_kabuli_chr04	40977052	TT	AA	1946828987
SNP_P4_62110_40977295	NC_021163.1	Ca_kabuli_chr04	40977295	CC	TT	1946828989
SNP_P4_62111_40977463	NC_021163.1	Ca_kabuli_chr04	40977463	TT	CC	1946828991
SNP_P4_62112_40981983	NC_021163.1	Ca_kabuli_chr04	40981983	AA	GG	1946828993
SNP_P4_62113_40982049	NC_021163.1	Ca_kabuli_chr04	40982049	GG	TT	1946828995
SNP_P4_62114_40982388	NC_021163.1	Ca_kabuli_chr04	40982388	TT	GG	1946828997

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_62116_40982420	NC_021163.1	Ca_kabuli_chr04	40982420	TT	CC	1946829001
SNP_P4_62117_40982478	NC_021163.1	Ca_kabuli_chr04	40982478	CC	TT	1946829003
SNP_P4_62118_40988142	NC_021163.1	Ca_kabuli_chr04	40988142	GG	AA	1946829005
SNP_P4_62119_40988184	NC_021163.1	Ca_kabuli_chr04	40988184	TT	CC	1946829007
SNP_P4_62120_40988747	NC_021163.1	Ca_kabuli_chr04	40988747	TT	GG	1946829009
SNP_P4_62121_40989412	NC_021163.1	Ca_kabuli_chr04	40989412	AA	TT	1946829011
SNP_P4_62122_40990191	NC_021163.1	Ca_kabuli_chr04	40990191	CC	TT	1946829013
SNP_P4_62123_40991499	NC_021163.1	Ca_kabuli_chr04	40991499	TT	GG	1946829015
SNP_P4_62124_40994027	NC_021163.1	Ca_kabuli_chr04	40994027	AA	GG	1946829017
SNP_P4_62125_40995115	NC_021163.1	Ca_kabuli_chr04	40995115	TT	CC	1946829019
SNP_P4_62126_40995343	NC_021163.1	Ca_kabuli_chr04	40995343	AA	GG	1946829021
SNP_P4_62127_40995389	NC_021163.1	Ca_kabuli_chr04	40995389	AA	GG	1946829023
SNP_P4_62128_40995391	NC_021163.1	Ca_kabuli_chr04	40995391	GG	AA	1946829025
SNP_P4_62130_40996788	NC_021163.1	Ca_kabuli_chr04	40996788	GG	AA	1946829027
SNP_P4_62131_40997480	NC_021163.1	Ca_kabuli_chr04	40997480	CC	GG	1946829028
SNP_P4_62132_40997852	NC_021163.1	Ca_kabuli_chr04	40997852	CC	TT	1946829030
SNP_P4_62133_40997854	NC_021163.1	Ca_kabuli_chr04	40997854	TT	CC	1946829032
SNP_P4_62134_40997856	NC_021163.1	Ca_kabuli_chr04	40997856	TT	CC	1946829034
SNP_P4_62136_40997923	NC_021163.1	Ca_kabuli_chr04	40997923	AA	GG	1946829036
SNP_P4_62137_40998360	NC_021163.1	Ca_kabuli_chr04	40998360	CC	TT	1946829039
SNP_P4_62138_40998375	NC_021163.1	Ca_kabuli_chr04	40998375	AA	TT	1946829041
SNP_P4_62139_40998920	NC_021163.1	Ca_kabuli_chr04	40998920	TT	CC	1946829042
SNP_P4_62140_40998946	NC_021163.1	Ca_kabuli_chr04	40998946	TT	CC	1946829045
SNP_P4_62141_41000051	NC_021163.1	Ca_kabuli_chr04	41000051	GG	TT	1946829047
SNP_P4_62142_41000053	NC_021163.1	Ca_kabuli_chr04	41000053	TT	CC	1946829049
SNP_P4_62143_41000062	NC_021163.1	Ca_kabuli_chr04	41000062	TT	CC	1946829051
SNP_P4_62144_41000114	NC_021163.1	Ca_kabuli_chr04	41000114	GG	TT	1946829053
SNP_P4_62145_41000374	NC_021163.1	Ca_kabuli_chr04	41000374	GG	AA	1946829056
SNP_P4_62146_41000546	NC_021163.1	Ca_kabuli_chr04	41000546	AA	GG	1946829058
SNP_P4_62147_41003940	NC_021163.1	Ca_kabuli_chr04	41003940	GG	AA	1946829059
SNP_P4_62148_41003950	NC_021163.1	Ca_kabuli_chr04	41003950	GG	AA	1946829061
SNP_P4_62149_41006613	NC_021163.1	Ca_kabuli_chr04	41006613	GG	AA	1946829064
SNP_P4_62150_41006622	NC_021163.1	Ca_kabuli_chr04	41006622	TT	CC	1946829066
SNP_P4_62151_41006664	NC_021163.1	Ca_kabuli_chr04	41006664	CC	TT	1946829068
SNP_P4_62152_41006909	NC_021163.1	Ca_kabuli_chr04	41006909	AA	TT	1946829070
SNP_P4_62153_41006919	NC_021163.1	Ca_kabuli_chr04	41006919	GG	TT	1946829072
SNP_P4_62154_41006932	NC_021163.1	Ca_kabuli_chr04	41006932	GG	TT	1946829074
SNP_P4_62155_41006965	NC_021163.1	Ca_kabuli_chr04	41006965	TT	CC	1946829076
SNP_P4_62156_41006966	NC_021163.1	Ca_kabuli_chr04	41006966	AA	GG	1946829078
SNP_P4_62157_41007026	NC_021163.1	Ca_kabuli_chr04	41007026	AA	GG	1946829080
SNP_P4_62158_41007040	NC_021163.1	Ca_kabuli_chr04	41007040	AA	GG	1946829082

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_62160_41007052	NC_021163.1	Ca_kabuli_chr04	41007052	TT	GG	1946829086
SNP_P4_62161_41007074	NC_021163.1	Ca_kabuli_chr04	41007074	GG	AA	1946829088
SNP_P4_62162_41007080	NC_021163.1	Ca_kabuli_chr04	41007080	GG	CC	1946829090
SNP_P4_62163_41007085	NC_021163.1	Ca_kabuli_chr04	41007085	CC	TT	1946829092
SNP_P4_62164_41007146	NC_021163.1	Ca_kabuli_chr04	41007146	CC	AA	1946829094
SNP_P4_62165_41010100	NC_021163.1	Ca_kabuli_chr04	41010100	TT	AA	1946829096
SNP_P4_62166_41010140	NC_021163.1	Ca_kabuli_chr04	41010140	AA	GG	1946829099
SNP_P4_62167_41010154	NC_021163.1	Ca_kabuli_chr04	41010154	AA	TT	1946829100
SNP_P4_62168_41010209	NC_021163.1	Ca_kabuli_chr04	41010209	GG	AA	1946829102
SNP_P4_62171_41011115	NC_021163.1	Ca_kabuli_chr04	41011115	CC	TT	1946829105
SNP_P4_62172_41011117	NC_021163.1	Ca_kabuli_chr04	41011117	AA	GG	1946829107
SNP_P4_62173_41011122	NC_021163.1	Ca_kabuli_chr04	41011122	AA	GG	1946829109
SNP_P4_62174_41011127	NC_021163.1	Ca_kabuli_chr04	41011127	GG	AA	1946829111
SNP_P4_62176_41012530	NC_021163.1	Ca_kabuli_chr04	41012530	CC	AA	1946829113
SNP_P4_62177_41012747	NC_021163.1	Ca_kabuli_chr04	41012747	CC	TT	1946829115
SNP_P4_62178_41012751	NC_021163.1	Ca_kabuli_chr04	41012751	AA	GG	1946829117
SNP_P4_62180_41013079	NC_021163.1	Ca_kabuli_chr04	41013079	CC	TT	1946829119
SNP_P4_62181_41013428	NC_021163.1	Ca_kabuli_chr04	41013428	CC	TT	1946829121
SNP_P4_62182_41013732	NC_021163.1	Ca_kabuli_chr04	41013732	TT	GG	1946829123
SNP_P4_62185_41015747	NC_021163.1	Ca_kabuli_chr04	41015747	AA	GG	1946829125
SNP_P4_62186_41015776	NC_021163.1	Ca_kabuli_chr04	41015776	CC	TT	1946829127
SNP_P4_62187_41016071	NC_021163.1	Ca_kabuli_chr04	41016071	TT	CC	1946829129
SNP_P4_62188_41016099	NC_021163.1	Ca_kabuli_chr04	41016099	TT	AA	1946829131
SNP_P4_62189_41016114	NC_021163.1	Ca_kabuli_chr04	41016114	TT	CC	1946829133
SNP_P4_62190_41016412	NC_021163.1	Ca_kabuli_chr04	41016412	GG	CC	1946829135
SNP_P4_62191_41017115	NC_021163.1	Ca_kabuli_chr04	41017115	TT	AA	1946829137
SNP_P4_62192_41018087	NC_021163.1	Ca_kabuli_chr04	41018087	AA	TT	1946829139
SNP_P4_62193_41018089	NC_021163.1	Ca_kabuli_chr04	41018089	GG	AA	1946829141
SNP_P4_62194_41027534	NC_021163.1	Ca_kabuli_chr04	41027534	TT	CC	1946829143
SNP_P4_62196_41038739	NC_021163.1	Ca_kabuli_chr04	41038739	CC	GG	1946829145
SNP_P4_62197_41060963	NC_021163.1	Ca_kabuli_chr04	41060963	GG	CC	1946829147
SNP_P4_62198_41126152	NC_021163.1	Ca_kabuli_chr04	41126152	AA	TT	1946829149
SNP_P4_62199_41126153	NC_021163.1	Ca_kabuli_chr04	41126153	AA	TT	1946829151
SNP_P4_62200_41126156	NC_021163.1	Ca_kabuli_chr04	41126156	GG	TT	1946829153
SNP_P4_62201_41158412	NC_021163.1	Ca_kabuli_chr04	41158412	AA	GG	1946829155
SNP_P4_62203_41172737	NC_021163.1	Ca_kabuli_chr04	41172737	AA	GG	1946829157
SNP_P4_62204_41172744	NC_021163.1	Ca_kabuli_chr04	41172744	AA	GG	1946829159
SNP_P4_62205_41179214	NC_021163.1	Ca_kabuli_chr04	41179214	AA	TT	1946829161
SNP_P4_62206_41179224	NC_021163.1	Ca_kabuli_chr04	41179224	AA	CC	1946829163
SNP_P4_62207_41179227	NC_021163.1	Ca_kabuli_chr04	41179227	AA	GG	1946829165
SNP_P4_62209_41245162	NC_021163.1	Ca_kabuli_chr04	41245162	AA	GG	1946829167

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_62213_41301894	NC_021163.1	Ca_kabuli_chr04	41301894	AA	CC	1946829171
SNP_P4_62214_41306037	NC_021163.1	Ca_kabuli_chr04	41306037	GG	AA	1946829173
SNP_P4_62216_41323258	NC_021163.1	Ca_kabuli_chr04	41323258	GG	AA	1946829175
SNP_P4_62217_41327864	NC_021163.1	Ca_kabuli_chr04	41327864	TT	CC	1946829177
SNP_P4_62218_41371930	NC_021163.1	Ca_kabuli_chr04	41371930	TT	AA	1946829179
SNP_P4_62219_41379386	NC_021163.1	Ca_kabuli_chr04	41379386	AA	GG	1946829181
SNP_P4_62220_41410538	NC_021163.1	Ca_kabuli_chr04	41410538	TT	CC	1946829183
SNP_P4_62221_41435270	NC_021163.1	Ca_kabuli_chr04	41435270	TT	AA	1946829185
SNP_P4_62223_41435766	NC_021163.1	Ca_kabuli_chr04	41435766	CC	TT	1946829187
SNP_P4_62225_41442214	NC_021163.1	Ca_kabuli_chr04	41442214	GG	CC	1946829189
SNP_P4_62226_41452045	NC_021163.1	Ca_kabuli_chr04	41452045	AA	CC	1946829191
SNP_P4_62227_41473315	NC_021163.1	Ca_kabuli_chr04	41473315	GG	AA	1946829193
SNP_P4_62228_41478524	NC_021163.1	Ca_kabuli_chr04	41478524	AA	CC	1946829195
SNP_P4_62229_41497468	NC_021163.1	Ca_kabuli_chr04	41497468	TT	CC	1946829197
SNP_P4_62230_41510128	NC_021163.1	Ca_kabuli_chr04	41510128	GG	AA	1946829199
SNP_P4_62231_41523723	NC_021163.1	Ca_kabuli_chr04	41523723	TT	CC	1946829201
SNP_P4_62234_41624975	NC_021163.1	Ca_kabuli_chr04	41624975	GG	AA	1946829203
SNP_P4_62237_41641072	NC_021163.1	Ca_kabuli_chr04	41641072	TT	CC	1946829205
SNP_P4_62239_41666917	NC_021163.1	Ca_kabuli_chr04	41666917	AA	GG	1946829207
SNP_P4_62240_41696034	NC_021163.1	Ca_kabuli_chr04	41696034	AA	GG	1946829209
SNP_P4_62241_41781987	NC_021163.1	Ca_kabuli_chr04	41781987	AA	GG	1946829211
SNP_P4_62242_41786255	NC_021163.1	Ca_kabuli_chr04	41786255	AA	GG	1946829213
SNP_P4_62243_41786256	NC_021163.1	Ca_kabuli_chr04	41786256	TT	CC	1946829215
SNP_P4_62246_41806133	NC_021163.1	Ca_kabuli_chr04	41806133	AA	TT	1946829216
SNP_P4_62250_41806637	NC_021163.1	Ca_kabuli_chr04	41806637	TT	AA	1946829218
SNP_P4_62251_41806645	NC_021163.1	Ca_kabuli_chr04	41806645	CC	TT	1946829220
SNP_P4_62252_41806670	NC_021163.1	Ca_kabuli_chr04	41806670	CC	TT	1946829222
SNP_P4_62253_41806888	NC_021163.1	Ca_kabuli_chr04	41806888	CC	GG	1946829224
SNP_P4_62254_41807602	NC_021163.1	Ca_kabuli_chr04	41807602	TT	CC	1946829226
SNP_P4_62255_41807605	NC_021163.1	Ca_kabuli_chr04	41807605	GG	AA	1946829228
SNP_P4_62256_41807606	NC_021163.1	Ca_kabuli_chr04	41807606	TT	AA	1946829230
SNP_P4_62257_41807607	NC_021163.1	Ca_kabuli_chr04	41807607	AA	TT	1946829232
SNP_P4_62258_41807622	NC_021163.1	Ca_kabuli_chr04	41807622	TT	CC	1946829234
SNP_P4_62259_41807632	NC_021163.1	Ca_kabuli_chr04	41807632	TT	CC	1946829236
SNP_P4_62260_41807642	NC_021163.1	Ca_kabuli_chr04	41807642	TT	CC	1946829238
SNP_P4_62262_41808444	NC_021163.1	Ca_kabuli_chr04	41808444	AA	GG	1946829240
SNP_P4_62263_41808456	NC_021163.1	Ca_kabuli_chr04	41808456	TT	AA	1946829242
SNP_P4_62264_41808463	NC_021163.1	Ca_kabuli_chr04	41808463	CC	TT	1946829244
SNP_P4_62265_41808507	NC_021163.1	Ca_kabuli_chr04	41808507	CC	GG	1946829246
SNP_P4_62267_41808917	NC_021163.1	Ca_kabuli_chr04	41808917	AA	TT	1946829248
SNP_P4_62268_41810267	NC_021163.1	Ca_kabuli_chr04	41810267	GG	AA	1946829250

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_62271_41814560	NC_021163.1	Ca_kabuli_chr04	41814560	GG	AA	1946829254
SNP_P4_62272_41814578	NC_021163.1	Ca_kabuli_chr04	41814578	GG	AA	1946829256
SNP_P4_62273_41814644	NC_021163.1	Ca_kabuli_chr04	41814644	GG	AA	1946829258
SNP_P4_62274_41814651	NC_021163.1	Ca_kabuli_chr04	41814651	CC	TT	1946829260
SNP_P4_62275_41814654	NC_021163.1	Ca_kabuli_chr04	41814654	AA	GG	1946829262
SNP_P4_62276_41819737	NC_021163.1	Ca_kabuli_chr04	41819737	CC	TT	1946829264
SNP_P4_62277_41823453	NC_021163.1	Ca_kabuli_chr04	41823453	CC	TT	1946829266
SNP_P4_62279_41824003	NC_021163.1	Ca_kabuli_chr04	41824003	TT	CC	1946829268
SNP_P4_62280_41824308	NC_021163.1	Ca_kabuli_chr04	41824308	TT	CC	1946829270
SNP_P4_62281_41824328	NC_021163.1	Ca_kabuli_chr04	41824328	GG	CC	1946829272
SNP_P4_62282_41824333	NC_021163.1	Ca_kabuli_chr04	41824333	CC	TT	1946829274
SNP_P4_62283_41824530	NC_021163.1	Ca_kabuli_chr04	41824530	AA	TT	1946829276
SNP_P4_62284_41824541	NC_021163.1	Ca_kabuli_chr04	41824541	AA	GG	1946829278
SNP_P4_62285_41824562	NC_021163.1	Ca_kabuli_chr04	41824562	GG	AA	1946829280
SNP_P4_62286_41824566	NC_021163.1	Ca_kabuli_chr04	41824566	TT	CC	1946829282
SNP_P4_62287_41824672	NC_021163.1	Ca_kabuli_chr04	41824672	TT	CC	1946829284
SNP_P4_62288_41825801	NC_021163.1	Ca_kabuli_chr04	41825801	GG	AA	1946829286
SNP_P4_62289_41828822	NC_021163.1	Ca_kabuli_chr04	41828822	GG	AA	1946829288
SNP_P4_62290_41829659	NC_021163.1	Ca_kabuli_chr04	41829659	TT	CC	1946829290
SNP_P4_62291_41829938	NC_021163.1	Ca_kabuli_chr04	41829938	TT	CC	1946829292
SNP_P4_62292_41830005	NC_021163.1	Ca_kabuli_chr04	41830005	CC	TT	1946829294
SNP_P4_62293_41830202	NC_021163.1	Ca_kabuli_chr04	41830202	TT	CC	1946829296
SNP_P4_62294_41830207	NC_021163.1	Ca_kabuli_chr04	41830207	CC	GG	1946829298
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SNP_P4_62296_41832309	NC_021163.1	Ca_kabuli_chr04	41832309	GG	AA	1946829302
SNP_P4_62297_41832787	NC_021163.1	Ca_kabuli_chr04	41832787	AA	GG	1946829304
SNP_P4_62299_41838436	NC_021163.1	Ca_kabuli_chr04	41838436	CC	AA	1946829306
SNP_P4_62301_41859766	NC_021163.1	Ca_kabuli_chr04	41859766	CC	TT	1946829309
SNP_P4_62302_41873364	NC_021163.1	Ca_kabuli_chr04	41873364	TT	CC	1946829311
SNP_P4_62303_41895604	NC_021163.1	Ca_kabuli_chr04	41895604	CC	TT	1946829312
SNP_P4_62304_41895638	NC_021163.1	Ca_kabuli_chr04	41895638	AA	GG	1946829315
SNP_P4_62305_41897047	NC_021163.1	Ca_kabuli_chr04	41897047	AA	TT	1946829316
SNP_P4_62306_41905035	NC_021163.1	Ca_kabuli_chr04	41905035	TT	CC	1946829319
SNP_P4_62307_41905041	NC_021163.1	Ca_kabuli_chr04	41905041	GG	CC	1946829321
SNP_P4_62308_41905054	NC_021163.1	Ca_kabuli_chr04	41905054	CC	AA	1946829323
SNP_P4_62309_41905095	NC_021163.1	Ca_kabuli_chr04	41905095	GG	TT	1946829325
SNP_P4_62310_41905098	NC_021163.1	Ca_kabuli_chr04	41905098	TT	GG	1946829326
SNP_P4_62311_41905429	NC_021163.1	Ca_kabuli_chr04	41905429	CC	TT	1946829329
SNP_P4_62312_41912472	NC_021163.1	Ca_kabuli_chr04	41912472	AA	GG	1946829331
SNP_P4_62313_41925475	NC_021163.1	Ca_kabuli_chr04	41925475	CC	TT	1946829332
SNP_P4_62314_41935139	NC_021163.1	Ca_kabuli_chr04	41935139	CC	GG	1946829334

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_62316_41967322	NC_021163.1	Ca_kabuli_chr04	41967322	CC	AA	1946829338
SNP_P4_62318_41985657	NC_021163.1	Ca_kabuli_chr04	41985657	AA	GG	1946829340
SNP_P4_62319_42013044	NC_021163.1	Ca_kabuli_chr04	42013044	CC	GG	1946829343
SNP_P4_62320_42013050	NC_021163.1	Ca_kabuli_chr04	42013050	AA	TT	1946829345
SNP_P4_62321_42016625	NC_021163.1	Ca_kabuli_chr04	42016625	GG	TT	1946829347
SNP_P4_62322_42017322	NC_021163.1	Ca_kabuli_chr04	42017322	CC	TT	1946829349
SNP_P4_62324_42034865	NC_021163.1	Ca_kabuli_chr04	42034865	TT	AA	1946829351
SNP_P4_62325_42034874	NC_021163.1	Ca_kabuli_chr04	42034874	TT	AA	1946829353
SNP_P4_62326_42034875	NC_021163.1	Ca_kabuli_chr04	42034875	AA	TT	1946829355
SNP_P4_62327_42034876	NC_021163.1	Ca_kabuli_chr04	42034876	TT	AA	1946829357
SNP_P4_62328_42035918	NC_021163.1	Ca_kabuli_chr04	42035918	AA	GG	1946829359
SNP_P4_62329_42041924	NC_021163.1	Ca_kabuli_chr04	42041924	GG	CC	1946829360
SNP_P4_62330_42041928	NC_021163.1	Ca_kabuli_chr04	42041928	TT	CC	1946829362
SNP_P4_62331_42073261	NC_021163.1	Ca_kabuli_chr04	42073261	AA	TT	1946829364
SNP_P4_62332_42076709	NC_021163.1	Ca_kabuli_chr04	42076709	GG	AA	1946829366
SNP_P4_62333_42078518	NC_021163.1	Ca_kabuli_chr04	42078518	GG	AA	1946829368
SNP_P4_62334_42078713	NC_021163.1	Ca_kabuli_chr04	42078713	TT	AA	1946829370
SNP_P4_62335_42078837	NC_021163.1	Ca_kabuli_chr04	42078837	TT	CC	1946829372
SNP_P4_62336_42078964	NC_021163.1	Ca_kabuli_chr04	42078964	AA	GG	1946829374
SNP_P4_62337_42081334	NC_021163.1	Ca_kabuli_chr04	42081334	GG	AA	1946829376
SNP_P4_62338_42081699	NC_021163.1	Ca_kabuli_chr04	42081699	TT	GG	1946829378
SNP_P4_62339_42083393	NC_021163.1	Ca_kabuli_chr04	42083393	AA	TT	1946829380
SNP_P4_62340_42083506	NC_021163.1	Ca_kabuli_chr04	42083506	AA	GG	1946829382
SNP_P4_62341_42083557	NC_021163.1	Ca_kabuli_chr04	42083557	CC	GG	1946829384
SNP_P4_62342_42083558	NC_021163.1	Ca_kabuli_chr04	42083558	GG	AA	1946829386
SNP_P4_62343_42083560	NC_021163.1	Ca_kabuli_chr04	42083560	CC	AA	1946829388
SNP_P4_62344_42083697	NC_021163.1	Ca_kabuli_chr04	42083697	CC	AA	1946829390
SNP_P4_62345_42083699	NC_021163.1	Ca_kabuli_chr04	42083699	TT	GG	1946829392
SNP_P4_62346_42083743	NC_021163.1	Ca_kabuli_chr04	42083743	AA	GG	1946829394
SNP_P4_62347_42083770	NC_021163.1	Ca_kabuli_chr04	42083770	TT	CC	1946829396
SNP_P4_62348_42083840	NC_021163.1	Ca_kabuli_chr04	42083840	GG	AA	1946829398
SNP_P4_62349_42095853	NC_021163.1	Ca_kabuli_chr04	42095853	TT	CC	1946829400
SNP_P4_62351_42117783	NC_021163.1	Ca_kabuli_chr04	42117783	CC	AA	1946829402
SNP_P4_62353_42119016	NC_021163.1	Ca_kabuli_chr04	42119016	AA	CC	1946829404
SNP_P4_62354_42119020	NC_021163.1	Ca_kabuli_chr04	42119020	TT	AA	1946829406
SNP_P4_62355_42119024	NC_021163.1	Ca_kabuli_chr04	42119024	CC	TT	1946829408
SNP_P4_62356_42119025	NC_021163.1	Ca_kabuli_chr04	42119025	CC	TT	1946829410
SNP_P4_62357_42119027	NC_021163.1	Ca_kabuli_chr04	42119027	CC	GG	1946829412
SNP_P4_62358_42119062	NC_021163.1	Ca_kabuli_chr04	42119062	AA	GG	1946829414
SNP_P4_62359_42119194	NC_021163.1	Ca_kabuli_chr04	42119194	TT	CC	1946829416
SNP_P4_62360_42119269	NC_021163.1	Ca_kabuli_chr04	42119269	CC	TT	1946829418

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_62362_42119422	NC_021163.1	Ca_kabuli_chr04	42119422	GG	TT	1946829422
SNP_P4_62363_42119423	NC_021163.1	Ca_kabuli_chr04	42119423	GG	AA	1946829424
SNP_P4_62364_42119513	NC_021163.1	Ca_kabuli_chr04	42119513	TT	GG	1946829426
SNP_P4_62365_42119554	NC_021163.1	Ca_kabuli_chr04	42119554	GG	TT	1946829428
SNP_P4_62366_42119704	NC_021163.1	Ca_kabuli_chr04	42119704	TT	AA	1946829430
SNP_P4_62367_42119716	NC_021163.1	Ca_kabuli_chr04	42119716	GG	AA	1946829432
SNP_P4_62368_42119757	NC_021163.1	Ca_kabuli_chr04	42119757	GG	AA	1946829435
SNP_P4_62369_42119889	NC_021163.1	Ca_kabuli_chr04	42119889	AA	CC	1946829437
SNP_P4_62370_42119936	NC_021163.1	Ca_kabuli_chr04	42119936	GG	CC	1946829439
SNP_P4_62371_42119945	NC_021163.1	Ca_kabuli_chr04	42119945	TT	AA	1946829441
SNP_P4_62372_42120012	NC_021163.1	Ca_kabuli_chr04	42120012	CC	GG	1946829443
SNP_P4_62373_42120055	NC_021163.1	Ca_kabuli_chr04	42120055	AA	GG	1946829445
SNP_P4_62374_42120201	NC_021163.1	Ca_kabuli_chr04	42120201	GG	CC	1946829447
SNP_P4_62375_42120202	NC_021163.1	Ca_kabuli_chr04	42120202	GG	TT	1946829449
SNP_P4_62376_42120203	NC_021163.1	Ca_kabuli_chr04	42120203	AA	GG	1946829451
SNP_P4_62377_42120236	NC_021163.1	Ca_kabuli_chr04	42120236	TT	CC	1946829453
SNP_P4_62378_42120295	NC_021163.1	Ca_kabuli_chr04	42120295	AA	GG	1946829455
SNP_P4_62379_42120323	NC_021163.1	Ca_kabuli_chr04	42120323	AA	GG	1946829457
SNP_P4_62380_42120377	NC_021163.1	Ca_kabuli_chr04	42120377	GG	AA	1946829458
SNP_P4_62381_42120426	NC_021163.1	Ca_kabuli_chr04	42120426	AA	GG	1946829459
SNP_P4_62383_42120452	NC_021163.1	Ca_kabuli_chr04	42120452	TT	CC	1946829460
SNP_P4_62384_42120505	NC_021163.1	Ca_kabuli_chr04	42120505	GG	AA	1946829461
SNP_P4_62387_42120649	NC_021163.1	Ca_kabuli_chr04	42120649	CC	AA	1946829462
SNP_P4_62388_42120655	NC_021163.1	Ca_kabuli_chr04	42120655	GG	TT	1946829463
SNP_P4_62389_42120817	NC_021163.1	Ca_kabuli_chr04	42120817	AA	GG	1946829465
SNP_P4_62390_42120824	NC_021163.1	Ca_kabuli_chr04	42120824	CC	AA	1946829467
SNP_P4_62392_42147955	NC_021163.1	Ca_kabuli_chr04	42147955	TT	AA	1946829469
SNP_P4_62393_42147961	NC_021163.1	Ca_kabuli_chr04	42147961	TT	CC	1946829471
SNP_P4_62394_42148089	NC_021163.1	Ca_kabuli_chr04	42148089	AA	TT	1946829473
SNP_P4_62395_42148102	NC_021163.1	Ca_kabuli_chr04	42148102	AA	GG	1946829475
SNP_P4_62396_42148118	NC_021163.1	Ca_kabuli_chr04	42148118	AA	GG	1946829477
SNP_P4_62397_42148119	NC_021163.1	Ca_kabuli_chr04	42148119	TT	CC	1946829479
SNP_P4_62398_42148121	NC_021163.1	Ca_kabuli_chr04	42148121	TT	GG	1946829481
SNP_P4_62399_42148122	NC_021163.1	Ca_kabuli_chr04	42148122	TT	AA	1946829483
SNP_P4_62400_42148229	NC_021163.1	Ca_kabuli_chr04	42148229	TT	CC	1946829485
SNP_P4_62401_42148243	NC_021163.1	Ca_kabuli_chr04	42148243	AA	GG	1946829487
SNP_P4_62403_42171863	NC_021163.1	Ca_kabuli_chr04	42171863	TT	AA	1946829489
SNP_P4_62404_42230408	NC_021163.1	Ca_kabuli_chr04	42230408	AA	GG	1946829491
SNP_P4_62405_42259643	NC_021163.1	Ca_kabuli_chr04	42259643	CC	TT	1946829493
SNP_P4_62406_42259644	NC_021163.1	Ca_kabuli_chr04	42259644	AA	GG	1946829495
SNP_P4_62407_42259780	NC_021163.1	Ca_kabuli_chr04	42259780	TT	GG	1946829497

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_62410_42285197	NC_021163.1	Ca_kabuli_chr04	42285197	TT	AA	1946829503
SNP_P4_62411_42285202	NC_021163.1	Ca_kabuli_chr04	42285202	TT	CC	1946829505
SNP_P4_62412_42285207	NC_021163.1	Ca_kabuli_chr04	42285207	AA	TT	1946829508
SNP_P4_62413_42285380	NC_021163.1	Ca_kabuli_chr04	42285380	TT	AA	1946829510
SNP_P4_62414_42286597	NC_021163.1	Ca_kabuli_chr04	42286597	GG	CC	1946829512
SNP_P4_62415_42299403	NC_021163.1	Ca_kabuli_chr04	42299403	CC	AA	1946829514
SNP_P4_62416_42305857	NC_021163.1	Ca_kabuli_chr04	42305857	TT	AA	1946829516
SNP_P4_62417_42305866	NC_021163.1	Ca_kabuli_chr04	42305866	AA	GG	1946829518
SNP_P4_62418_42305917	NC_021163.1	Ca_kabuli_chr04	42305917	GG	AA	1946829521
SNP_P4_62419_42306150	NC_021163.1	Ca_kabuli_chr04	42306150	GG	AA	1946829523
SNP_P4_62420_42306221	NC_021163.1	Ca_kabuli_chr04	42306221	AA	GG	1946829525
SNP_P4_62421_42308266	NC_021163.1	Ca_kabuli_chr04	42308266	GG	AA	1946829527
SNP_P4_62423_42355726	NC_021163.1	Ca_kabuli_chr04	42355726	GG	TT	1946829529
SNP_P4_62424_42355728	NC_021163.1	Ca_kabuli_chr04	42355728	TT	CC	1946829531
SNP_P4_62425_42407140	NC_021163.1	Ca_kabuli_chr04	42407140	AA	GG	1946829533
SNP_P4_62426_42407151	NC_021163.1	Ca_kabuli_chr04	42407151	TT	CC	1946829535
SNP_P4_62427_42407455	NC_021163.1	Ca_kabuli_chr04	42407455	CC	GG	1946829537
SNP_P4_62428_42408865	NC_021163.1	Ca_kabuli_chr04	42408865	AA	GG	1946829539
SNP_P4_62430_42438471	NC_021163.1	Ca_kabuli_chr04	42438471	CC	TT	1946829541
SNP_P4_62431_42438660	NC_021163.1	Ca_kabuli_chr04	42438660	GG	AA	1946829543
SNP_P4_62432_42439297	NC_021163.1	Ca_kabuli_chr04	42439297	AA	CC	1946829545
SNP_P4_62433_42439797	NC_021163.1	Ca_kabuli_chr04	42439797	GG	AA	1946829547
SNP_P4_62434_42481520	NC_021163.1	Ca_kabuli_chr04	42481520	TT	CC	1946829549
SNP_P4_62435_42508514	NC_021163.1	Ca_kabuli_chr04	42508514	TT	CC	1946829551
SNP_P4_62436_42514032	NC_021163.1	Ca_kabuli_chr04	42514032	TT	AA	1946829553
SNP_P4_62437_42516755	NC_021163.1	Ca_kabuli_chr04	42516755	TT	CC	1946829555
SNP_P4_62438_42516759	NC_021163.1	Ca_kabuli_chr04	42516759	AA	GG	1946829557
SNP_P4_62439_42517079	NC_021163.1	Ca_kabuli_chr04	42517079	AA	GG	1946829559
SNP_P4_62440_42517101	NC_021163.1	Ca_kabuli_chr04	42517101	CC	AA	1946829561
SNP_P4_62443_42546825	NC_021163.1	Ca_kabuli_chr04	42546825	AA	CC	1946829563
SNP_P4_62444_42546842	NC_021163.1	Ca_kabuli_chr04	42546842	TT	GG	1946829565
SNP_P4_62446_42561382	NC_021163.1	Ca_kabuli_chr04	42561382	AA	TT	1946829567
SNP_P4_62448_42579481	NC_021163.1	Ca_kabuli_chr04	42579481	GG	AA	1946829569
SNP_P4_62449_42580703	NC_021163.1	Ca_kabuli_chr04	42580703	AA	CC	1946829571
SNP_P4_62450_42580753	NC_021163.1	Ca_kabuli_chr04	42580753	CC	TT	1946829573
SNP_P4_62451_42588557	NC_021163.1	Ca_kabuli_chr04	42588557	TT	CC	1946829575
SNP_P4_62452_42588597	NC_021163.1	Ca_kabuli_chr04	42588597	TT	AA	1946829578
SNP_P4_62453_42588891	NC_021163.1	Ca_kabuli_chr04	42588891	GG	AA	1946829579
SNP_P4_62454_42588903	NC_021163.1	Ca_kabuli_chr04	42588903	AA	GG	1946829581
SNP_P4_62455_42588937	NC_021163.1	Ca_kabuli_chr04	42588937	CC	TT	1946829583

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_62457_42589453	NC_021163.1	Ca_kabuli_chr04	42589453	GG	AA	1946829587
SNP_P4_62458_42589488	NC_021163.1	Ca_kabuli_chr04	42589488	CC	TT	1946829589
SNP_P4_62459_42589491	NC_021163.1	Ca_kabuli_chr04	42589491	AA	GG	1946829591
SNP_P4_62460_42589492	NC_021163.1	Ca_kabuli_chr04	42589492	CC	AA	1946829593
SNP_P4_62461_42589518	NC_021163.1	Ca_kabuli_chr04	42589518	TT	AA	1946829595
SNP_P4_62462_42592247	NC_021163.1	Ca_kabuli_chr04	42592247	GG	CC	1946829597
SNP_P4_62463_42592785	NC_021163.1	Ca_kabuli_chr04	42592785	AA	GG	1946829599
SNP_P4_62464_42609857	NC_021163.1	Ca_kabuli_chr04	42609857	AA	GG	1946829601
SNP_P4_62465_42610204	NC_021163.1	Ca_kabuli_chr04	42610204	TT	AA	1946829603
SNP_P4_62467_42663707	NC_021163.1	Ca_kabuli_chr04	42663707	GG	AA	1946829605
SNP_P4_62469_42704777	NC_021163.1	Ca_kabuli_chr04	42704777	GG	AA	1946829607
SNP_P4_62470_42755287	NC_021163.1	Ca_kabuli_chr04	42755287	GG	AA	1946829609
SNP_P4_62471_42755289	NC_021163.1	Ca_kabuli_chr04	42755289	GG	AA	1946829611
SNP_P4_62472_42755291	NC_021163.1	Ca_kabuli_chr04	42755291	TT	GG	1946829613
SNP_P4_62474_42807957	NC_021163.1	Ca_kabuli_chr04	42807957	AA	GG	1946829615
SNP_P4_62475_42817819	NC_021163.1	Ca_kabuli_chr04	42817819	CC	TT	1946829617
SNP_P4_62476_42820770	NC_021163.1	Ca_kabuli_chr04	42820770	AA	GG	1946829619
SNP_P4_62477_42820788	NC_021163.1	Ca_kabuli_chr04	42820788	GG	AA	1946829621
SNP_P4_62478_42820848	NC_021163.1	Ca_kabuli_chr04	42820848	TT	GG	1946829623
SNP_P4_62479_42820893	NC_021163.1	Ca_kabuli_chr04	42820893	TT	CC	1946829625
SNP_P4_62480_42820896	NC_021163.1	Ca_kabuli_chr04	42820896	CC	TT	1946829627
SNP_P4_62481_42820898	NC_021163.1	Ca_kabuli_chr04	42820898	TT	GG	1946829629
SNP_P4_62482_42820901	NC_021163.1	Ca_kabuli_chr04	42820901	GG	AA	1946829631
SNP_P4_62483_42821098	NC_021163.1	Ca_kabuli_chr04	42821098	CC	AA	1946829633
SNP_P4_62484_42821104	NC_021163.1	Ca_kabuli_chr04	42821104	AA	TT	1946829635
SNP_P4_62485_42821106	NC_021163.1	Ca_kabuli_chr04	42821106	GG	AA	1946829637
SNP_P4_62486_42821130	NC_021163.1	Ca_kabuli_chr04	42821130	AA	CC	1946829639
SNP_P4_62487_42821250	NC_021163.1	Ca_kabuli_chr04	42821250	CC	TT	1946829641
SNP_P4_62488_42829258	NC_021163.1	Ca_kabuli_chr04	42829258	TT	CC	1946829643
SNP_P4_62489_42829263	NC_021163.1	Ca_kabuli_chr04	42829263	CC	TT	1946829645
SNP_P4_62490_42829265	NC_021163.1	Ca_kabuli_chr04	42829265	AA	GG	1946829647
SNP_P4_62491_42829346	NC_021163.1	Ca_kabuli_chr04	42829346	TT	CC	1946829649
SNP_P4_62492_42829370	NC_021163.1	Ca_kabuli_chr04	42829370	AA	TT	1946829651
SNP_P4_62493_42829408	NC_021163.1	Ca_kabuli_chr04	42829408	GG	TT	1946829653
SNP_P4_62494_42829662	NC_021163.1	Ca_kabuli_chr04	42829662	CC	TT	1946829656
SNP_P4_62495_42829710	NC_021163.1	Ca_kabuli_chr04	42829710	TT	CC	1946829658
SNP_P4_62496_42829720	NC_021163.1	Ca_kabuli_chr04	42829720	TT	CC	1946829660
SNP_P4_62497_42829743	NC_021163.1	Ca_kabuli_chr04	42829743	TT	CC	1946829662
SNP_P4_62498_42840834	NC_021163.1	Ca_kabuli_chr04	42840834	AA	CC	1946829664
SNP_P4_62499_42844531	NC_021163.1	Ca_kabuli_chr04	42844531	AA	TT	1946829666
SNP_P4_62500_42845107	NC_021163.1	Ca_kabuli_chr04	42845107	TT	GG	1946829668

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_62502_42845599	NC_021163.1	Ca_kabuli_chr04	42845599	AA	GG	1946829672
SNP_P4_62503_42864703	NC_021163.1	Ca_kabuli_chr04	42864703	AA	GG	1946829674
SNP_P4_62504_42883402	NC_021163.1	Ca_kabuli_chr04	42883402	TT	AA	1946829676
SNP_P4_62505_42889013	NC_021163.1	Ca_kabuli_chr04	42889013	CC	AA	1946829678
SNP_P4_62506_42889022	NC_021163.1	Ca_kabuli_chr04	42889022	TT	AA	1946829680
SNP_P4_62507_42889032	NC_021163.1	Ca_kabuli_chr04	42889032	CC	AA	1946829682
SNP_P4_62508_42892422	NC_021163.1	Ca_kabuli_chr04	42892422	TT	CC	1946829684
SNP_P4_62509_42892518	NC_021163.1	Ca_kabuli_chr04	42892518	CC	TT	1946829686
SNP_P4_62510_42892581	NC_021163.1	Ca_kabuli_chr04	42892581	TT	AA	1946829688
SNP_P4_62511_42892620	NC_021163.1	Ca_kabuli_chr04	42892620	TT	AA	1946829690
SNP_P4_62512_42892839	NC_021163.1	Ca_kabuli_chr04	42892839	CC	AA	1946829692
SNP_P4_62513_42892850	NC_021163.1	Ca_kabuli_chr04	42892850	CC	TT	1946829694
SNP_P4_62514_42892953	NC_021163.1	Ca_kabuli_chr04	42892953	AA	GG	1946829696
SNP_P4_62515_42893016	NC_021163.1	Ca_kabuli_chr04	42893016	AA	CC	1946829698
SNP_P4_62516_42893382	NC_021163.1	Ca_kabuli_chr04	42893382	TT	AA	1946829700
SNP_P4_62517_42893394	NC_021163.1	Ca_kabuli_chr04	42893394	CC	TT	1946829702
SNP_P4_62518_42893400	NC_021163.1	Ca_kabuli_chr04	42893400	GG	AA	1946829704
SNP_P4_62519_42904493	NC_021163.1	Ca_kabuli_chr04	42904493	TT	AA	1946829706
SNP_P4_62520_42915842	NC_021163.1	Ca_kabuli_chr04	42915842	CC	TT	1946829708
SNP_P4_62521_42916168	NC_021163.1	Ca_kabuli_chr04	42916168	AA	GG	1946829710
SNP_P4_62522_42947345	NC_021163.1	Ca_kabuli_chr04	42947345	CC	TT	1946829712
SNP_P4_62523_42947372	NC_021163.1	Ca_kabuli_chr04	42947372	AA	CC	1946829714
SNP_P4_62524_42947736	NC_021163.1	Ca_kabuli_chr04	42947736	CC	TT	1946829716
SNP_P4_62525_42961506	NC_021163.1	Ca_kabuli_chr04	42961506	CC	GG	1946829718
SNP_P4_62527_42968168	NC_021163.1	Ca_kabuli_chr04	42968168	CC	TT	1946829720
SNP_P4_62528_42973891	NC_021163.1	Ca_kabuli_chr04	42973891	GG	AA	1946829722
SNP_P4_62529_42973919	NC_021163.1	Ca_kabuli_chr04	42973919	CC	TT	1946829723
SNP_P4_62530_42973930	NC_021163.1	Ca_kabuli_chr04	42973930	AA	GG	1946829725
SNP_P4_62531_42992337	NC_021163.1	Ca_kabuli_chr04	42992337	AA	GG	1946829727
SNP_P4_62532_42996102	NC_021163.1	Ca_kabuli_chr04	42996102	TT	AA	1946829730
SNP_P4_62533_43001887	NC_021163.1	Ca_kabuli_chr04	43001887	TT	GG	1946829732
SNP_P4_62534_43001898	NC_021163.1	Ca_kabuli_chr04	43001898	TT	AA	1946829734
SNP_P4_62535_43001969	NC_021163.1	Ca_kabuli_chr04	43001969	CC	AA	1946829736
SNP_P4_62536_43002145	NC_021163.1	Ca_kabuli_chr04	43002145	CC	TT	1946829738
SNP_P4_62537_43002146	NC_021163.1	Ca_kabuli_chr04	43002146	AA	GG	1946829740
SNP_P4_62538_43002162	NC_021163.1	Ca_kabuli_chr04	43002162	CC	TT	1946829742
SNP_P4_62539_43002184	NC_021163.1	Ca_kabuli_chr04	43002184	AA	GG	1946829744
SNP_P4_62540_43002200	NC_021163.1	Ca_kabuli_chr04	43002200	CC	TT	1946829746
SNP_P4_62541_43002309	NC_021163.1	Ca_kabuli_chr04	43002309	AA	TT	1946829748
SNP_P4_62542_43002331	NC_021163.1	Ca_kabuli_chr04	43002331	AA	TT	1946829750
SNP_P4_62543_43002341	NC_021163.1	Ca_kabuli_chr04	43002341	TT	AA	1946829752

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_62545_43002348	NC_021163.1	Ca_kabuli_chr04	43002348	TT	AA	1946829755
SNP_P4_62546_43002349	NC_021163.1	Ca_kabuli_chr04	43002349	AA	TT	1946829757
SNP_P4_62547_43002405	NC_021163.1	Ca_kabuli_chr04	43002405	TT	CC	1946829760
SNP_P4_62548_43002422	NC_021163.1	Ca_kabuli_chr04	43002422	AA	TT	1946829762
SNP_P4_62549_43002611	NC_021163.1	Ca_kabuli_chr04	43002611	TT	CC	1946829764
SNP_P4_62550_43005274	NC_021163.1	Ca_kabuli_chr04	43005274	GG	AA	1946829766
SNP_P4_62551_43006059	NC_021163.1	Ca_kabuli_chr04	43006059	GG	TT	1946829768
SNP_P4_62552_43006101	NC_021163.1	Ca_kabuli_chr04	43006101	GG	AA	1946829770
SNP_P4_62553_43006123	NC_021163.1	Ca_kabuli_chr04	43006123	CC	TT	1946829771
SNP_P4_62554_43006177	NC_021163.1	Ca_kabuli_chr04	43006177	AA	TT	1946829773
SNP_P4_62555_43006195	NC_021163.1	Ca_kabuli_chr04	43006195	TT	AA	1946829775
SNP_P4_62556_43006199	NC_021163.1	Ca_kabuli_chr04	43006199	TT	AA	1946829777
SNP_P4_62557_43006203	NC_021163.1	Ca_kabuli_chr04	43006203	AA	GG	1946829780
SNP_P4_62558_43006205	NC_021163.1	Ca_kabuli_chr04	43006205	GG	TT	1946829782
SNP_P4_62559_43006207	NC_021163.1	Ca_kabuli_chr04	43006207	AA	TT	1946829784
SNP_P4_62560_43009986	NC_021163.1	Ca_kabuli_chr04	43009986	GG	TT	1946829786
SNP_P4_62561_43010349	NC_021163.1	Ca_kabuli_chr04	43010349	TT	CC	1946829788
SNP_P4_62562_43010356	NC_021163.1	Ca_kabuli_chr04	43010356	GG	AA	1946829790
SNP_P4_62563_43010371	NC_021163.1	Ca_kabuli_chr04	43010371	GG	AA	1946829792
SNP_P4_62564_43010396	NC_021163.1	Ca_kabuli_chr04	43010396	GG	AA	1946829794
SNP_P4_62565_43010409	NC_021163.1	Ca_kabuli_chr04	43010409	TT	GG	1946829796
SNP_P4_62566_43015191	NC_021163.1	Ca_kabuli_chr04	43015191	CC	TT	1946829798
SNP_P4_62567_43022007	NC_021163.1	Ca_kabuli_chr04	43022007	TT	CC	1946829800
SNP_P4_62568_43024108	NC_021163.1	Ca_kabuli_chr04	43024108	TT	AA	1946829802
SNP_P4_62569_43024123	NC_021163.1	Ca_kabuli_chr04	43024123	TT	AA	1946829804
SNP_P4_62570_43024134	NC_021163.1	Ca_kabuli_chr04	43024134	TT	CC	1946829806
SNP_P4_62571_43024147	NC_021163.1	Ca_kabuli_chr04	43024147	TT	CC	1946829808
SNP_P4_62572_43028337	NC_021163.1	Ca_kabuli_chr04	43028337	GG	CC	1946829810
SNP_P4_62573_43028638	NC_021163.1	Ca_kabuli_chr04	43028638	AA	GG	1946829812
SNP_P4_62574_43028684	NC_021163.1	Ca_kabuli_chr04	43028684	TT	CC	1946829814
SNP_P4_62575_43030798	NC_021163.1	Ca_kabuli_chr04	43030798	GG	AA	1946829816
SNP_P4_62576_43031348	NC_021163.1	Ca_kabuli_chr04	43031348	TT	CC	1946829819
SNP_P4_62577_43036135	NC_021163.1	Ca_kabuli_chr04	43036135	CC	TT	1946829821
SNP_P4_62578_43047550	NC_021163.1	Ca_kabuli_chr04	43047550	CC	GG	1946829823
SNP_P4_62579_43049661	NC_021163.1	Ca_kabuli_chr04	43049661	GG	AA	1946829825
SNP_P4_62580_43049680	NC_021163.1	Ca_kabuli_chr04	43049680	AA	TT	1946829827
SNP_P4_62582_43053884	NC_021163.1	Ca_kabuli_chr04	43053884	GG	AA	1946829829
SNP_P4_62583_43055789	NC_021163.1	Ca_kabuli_chr04	43055789	CC	AA	1946829831
SNP_P4_62584_43055803	NC_021163.1	Ca_kabuli_chr04	43055803	CC	TT	1946829833
SNP_P4_62585_43055820	NC_021163.1	Ca_kabuli_chr04	43055820	GG	AA	1946829835
SNP_P4_62586_43055847	NC_021163.1	Ca_kabuli_chr04	43055847	TT	CC	1946829837

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_62589_43061698	NC_021163.1	Ca_kabuli_chr04	43061698	AA	GG	1946829843
SNP_P4_62590_43061818	NC_021163.1	Ca_kabuli_chr04	43061818	CC	GG	1946829845
SNP_P4_62591_43061853	NC_021163.1	Ca_kabuli_chr04	43061853	AA	CC	1946829847
SNP_P4_62592_43062230	NC_021163.1	Ca_kabuli_chr04	43062230	GG	TT	1946829849
SNP_P4_62593_43062247	NC_021163.1	Ca_kabuli_chr04	43062247	AA	GG	1946829851
SNP_P4_62594_43062694	NC_021163.1	Ca_kabuli_chr04	43062694	TT	CC	1946829853
SNP_P4_62595_43062714	NC_021163.1	Ca_kabuli_chr04	43062714	GG	AA	1946829855
SNP_P4_62596_43065440	NC_021163.1	Ca_kabuli_chr04	43065440	AA	CC	1946829857
SNP_P4_62597_43065449	NC_021163.1	Ca_kabuli_chr04	43065449	GG	AA	1946829859
SNP_P4_62598_43073557	NC_021163.1	Ca_kabuli_chr04	43073557	TT	AA	1946829861
SNP_P4_62599_43073720	NC_021163.1	Ca_kabuli_chr04	43073720	GG	AA	1946829863
SNP_P4_62600_43073953	NC_021163.1	Ca_kabuli_chr04	43073953	GG	CC	1946829865
SNP_P4_62601_43083212	NC_021163.1	Ca_kabuli_chr04	43083212	AA	TT	1946829867
SNP_P4_62602_43083219	NC_021163.1	Ca_kabuli_chr04	43083219	AA	TT	1946829869
SNP_P4_62603_43083696	NC_021163.1	Ca_kabuli_chr04	43083696	CC	AA	1946829871
SNP_P4_62604_43093279	NC_021163.1	Ca_kabuli_chr04	43093279	TT	CC	1946829873
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SNP_P4_62606_43098172	NC_021163.1	Ca_kabuli_chr04	43098172	GG	AA	1946829877
SNP_P4_62607_43105268	NC_021163.1	Ca_kabuli_chr04	43105268	CC	AA	1946829879
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SNP_P4_62609_43111702	NC_021163.1	Ca_kabuli_chr04	43111702	TT	CC	1946829883
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SNP_P4_62615_43116199	NC_021163.1	Ca_kabuli_chr04	43116199	AA	GG	1946829895
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SNP_P4_62617_43116273	NC_021163.1	Ca_kabuli_chr04	43116273	AA	CC	1946829899
SNP_P4_62618_43120029	NC_021163.1	Ca_kabuli_chr04	43120029	CC	AA	1946829901
SNP_P4_62619_43120030	NC_021163.1	Ca_kabuli_chr04	43120030	TT	CC	1946829903
SNP_P4_62620_43120960	NC_021163.1	Ca_kabuli_chr04	43120960	GG	AA	1946829905
SNP_P4_62621_43120994	NC_021163.1	Ca_kabuli_chr04	43120994	TT	AA	1946829907
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SNP_P4_62623_43121747	NC_021163.1	Ca_kabuli_chr04	43121747	AA	GG	1946829911
SNP_P4_62624_43123849	NC_021163.1	Ca_kabuli_chr04	43123849	CC	GG	1946829913
SNP_P4_62625_43127969	NC_021163.1	Ca_kabuli_chr04	43127969	GG	AA	1946829915
SNP_P4_62626_43128042	NC_021163.1	Ca_kabuli_chr04	43128042	CC	AA	1946829917
SNP_P4_62627_43128046	NC_021163.1	Ca_kabuli_chr04	43128046	TT	GG	1946829919
SNP_P4_62628_43143376	NC_021163.1	Ca_kabuli_chr04	43143376	CC	TT	1946829921

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_62631_43146862	NC_021163.1	Ca_kabuli_chr04	43146862	GG	TT	1946829928
SNP_P4_62632_43146878	NC_021163.1	Ca_kabuli_chr04	43146878	CC	GG	1946829931
SNP_P4_62633_43146893	NC_021163.1	Ca_kabuli_chr04	43146893	GG	AA	1946829933
SNP_P4_62634_43146954	NC_021163.1	Ca_kabuli_chr04	43146954	CC	TT	1946829935
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SNP_P4_62636_43146983	NC_021163.1	Ca_kabuli_chr04	43146983	CC	TT	1946829939
SNP_P4_62637_43146991	NC_021163.1	Ca_kabuli_chr04	43146991	CC	TT	1946829941
SNP_P4_62638_43146996	NC_021163.1	Ca_kabuli_chr04	43146996	CC	TT	1946829943
SNP_P4_62639_43147715	NC_021163.1	Ca_kabuli_chr04	43147715	AA	GG	1946829945
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SNP_P4_62641_43154626	NC_021163.1	Ca_kabuli_chr04	43154626	TT	AA	1946829949
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SNP_P4_62644_43191698	NC_021163.1	Ca_kabuli_chr04	43191698	GG	AA	1946829955
SNP_P4_62645_43192036	NC_021163.1	Ca_kabuli_chr04	43192036	GG	AA	1946829957
SNP_P4_62646_43192456	NC_021163.1	Ca_kabuli_chr04	43192456	AA	GG	1946829959
SNP_P4_62647_43192523	NC_021163.1	Ca_kabuli_chr04	43192523	TT	CC	1946829961
SNP_P4_62648_43193191	NC_021163.1	Ca_kabuli_chr04	43193191	GG	AA	1946829963
SNP_P4_62649_43193309	NC_021163.1	Ca_kabuli_chr04	43193309	AA	GG	1946829965
SNP_P4_62651_43200277	NC_021163.1	Ca_kabuli_chr04	43200277	AA	CC	1946829967
SNP_P4_62652_43205061	NC_021163.1	Ca_kabuli_chr04	43205061	CC	TT	1946829969
SNP_P4_62653_43205071	NC_021163.1	Ca_kabuli_chr04	43205071	CC	TT	1946829971
SNP_P4_62654_43205245	NC_021163.1	Ca_kabuli_chr04	43205245	CC	TT	1946829974
SNP_P4_62655_43205434	NC_021163.1	Ca_kabuli_chr04	43205434	AA	GG	1946829976
SNP_P4_62656_43207195	NC_021163.1	Ca_kabuli_chr04	43207195	CC	GG	1946829978
SNP_P4_62657_43207196	NC_021163.1	Ca_kabuli_chr04	43207196	CC	TT	1946829980
SNP_P4_62658_43209294	NC_021163.1	Ca_kabuli_chr04	43209294	CC	TT	1946829982
SNP_P4_62659_43212036	NC_021163.1	Ca_kabuli_chr04	43212036	TT	AA	1946829984
SNP_P4_62660_43213237	NC_021163.1	Ca_kabuli_chr04	43213237	AA	GG	1946829986
SNP_P4_62661_43213442	NC_021163.1	Ca_kabuli_chr04	43213442	AA	GG	1946829987
SNP_P4_62662_43215184	NC_021163.1	Ca_kabuli_chr04	43215184	CC	AA	1946829989
SNP_P4_62663_43217463	NC_021163.1	Ca_kabuli_chr04	43217463	GG	AA	1946829991
SNP_P4_62666_43226627	NC_021163.1	Ca_kabuli_chr04	43226627	GG	AA	1946829993
SNP_P4_62667_43226725	NC_021163.1	Ca_kabuli_chr04	43226725	AA	GG	1946829995
SNP_P4_62668_43226733	NC_021163.1	Ca_kabuli_chr04	43226733	CC	GG	1946829997
SNP_P4_62669_43227552	NC_021163.1	Ca_kabuli_chr04	43227552	AA	CC	1946829999
SNP_P4_62670_43227809	NC_021163.1	Ca_kabuli_chr04	43227809	GG	TT	1946830001
SNP_P4_62671_43240566	NC_021163.1	Ca_kabuli_chr04	43240566	AA	GG	1946830003
SNP_P4_62672_43240667	NC_021163.1	Ca_kabuli_chr04	43240667	AA	CC	1946830005
SNP_P4_62673_43241011	NC_021163.1	Ca_kabuli_chr04	43241011	AA	GG	1946830006

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_62675_43243585	NC_021163.1	Ca_kabuli_chr04	43243585	CC	TT	1946830010
SNP_P4_62676_43243592	NC_021163.1	Ca_kabuli_chr04	43243592	TT	CC	1946830012
SNP_P4_62677_43243610	NC_021163.1	Ca_kabuli_chr04	43243610	GG	AA	1946830014
SNP_P4_62678_43243646	NC_021163.1	Ca_kabuli_chr04	43243646	AA	GG	1946830016
SNP_P4_62679_43243663	NC_021163.1	Ca_kabuli_chr04	43243663	AA	GG	1946830018
SNP_P4_62680_43243667	NC_021163.1	Ca_kabuli_chr04	43243667	AA	GG	1946830020
SNP_P4_62681_43243713	NC_021163.1	Ca_kabuli_chr04	43243713	TT	GG	1946830022
SNP_P4_62682_43243727	NC_021163.1	Ca_kabuli_chr04	43243727	TT	AA	1946830024
SNP_P4_62684_43243945	NC_021163.1	Ca_kabuli_chr04	43243945	GG	AA	1946830026
SNP_P4_62685_43243984	NC_021163.1	Ca_kabuli_chr04	43243984	CC	TT	1946830028
SNP_P4_62686_43243990	NC_021163.1	Ca_kabuli_chr04	43243990	AA	TT	1946830030
SNP_P4_62687_43244008	NC_021163.1	Ca_kabuli_chr04	43244008	TT	AA	1946830031
SNP_P4_62688_43244017	NC_021163.1	Ca_kabuli_chr04	43244017	GG	AA	1946830033
SNP_P4_62689_43244018	NC_021163.1	Ca_kabuli_chr04	43244018	AA	GG	1946830035
SNP_P4_62690_43244528	NC_021163.1	Ca_kabuli_chr04	43244528	TT	GG	1946830037
SNP_P4_62691_43268401	NC_021163.1	Ca_kabuli_chr04	43268401	TT	CC	1946830039
SNP_P4_62692_43268543	NC_021163.1	Ca_kabuli_chr04	43268543	AA	CC	1946830041
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SNP_P4_62694_43274576	NC_021163.1	Ca_kabuli_chr04	43274576	CC	TT	1946830045
SNP_P4_62695_43274779	NC_021163.1	Ca_kabuli_chr04	43274779	CC	AA	1946830047
SNP_P4_62696_43274785	NC_021163.1	Ca_kabuli_chr04	43274785	TT	CC	1946830049
SNP_P4_62697_43274786	NC_021163.1	Ca_kabuli_chr04	43274786	CC	AA	1946830051
SNP_P4_62698_43274792	NC_021163.1	Ca_kabuli_chr04	43274792	CC	TT	1946830053
SNP_P4_62699_43274798	NC_021163.1	Ca_kabuli_chr04	43274798	GG	AA	1946830055
SNP_P4_62700_43274816	NC_021163.1	Ca_kabuli_chr04	43274816	GG	AA	1946830057
SNP_P4_62701_43274849	NC_021163.1	Ca_kabuli_chr04	43274849	GG	AA	1946830059
SNP_P4_62702_43274864	NC_021163.1	Ca_kabuli_chr04	43274864	TT	CC	1946830060
SNP_P4_62703_43274894	NC_021163.1	Ca_kabuli_chr04	43274894	CC	TT	1946830062
SNP_P4_62704_43274909	NC_021163.1	Ca_kabuli_chr04	43274909	TT	GG	1946830064
SNP_P4_62705_43274911	NC_021163.1	Ca_kabuli_chr04	43274911	TT	CC	1946830066
SNP_P4_62706_43274912	NC_021163.1	Ca_kabuli_chr04	43274912	CC	TT	1946830068
SNP_P4_62707_43274919	NC_021163.1	Ca_kabuli_chr04	43274919	AA	CC	1946830070
SNP_P4_62708_43274924	NC_021163.1	Ca_kabuli_chr04	43274924	AA	CC	1946830072
SNP_P4_62709_43274932	NC_021163.1	Ca_kabuli_chr04	43274932	TT	CC	1946830074
SNP_P4_62710_43275190	NC_021163.1	Ca_kabuli_chr04	43275190	AA	GG	1946830076
SNP_P4_62711_43275206	NC_021163.1	Ca_kabuli_chr04	43275206	CC	TT	1946830078
SNP_P4_62712_43275239	NC_021163.1	Ca_kabuli_chr04	43275239	TT	CC	1946830080
SNP_P4_62713_43275244	NC_021163.1	Ca_kabuli_chr04	43275244	CC	TT	1946830082
SNP_P4_62714_43275251	NC_021163.1	Ca_kabuli_chr04	43275251	AA	GG	1946830084
SNP_P4_62715_43277404	NC_021163.1	Ca_kabuli_chr04	43277404	AA	CC	1946830086
SNP_P4_62716_43277473	NC_021163.1	Ca_kabuli_chr04	43277473	TT	CC	1946830087

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_62718_43281944	NC_021163.1	Ca_kabuli_chr04	43281944	TT	CC	1946830091
SNP_P4_62719_43289403	NC_021163.1	Ca_kabuli_chr04	43289403	AA	TT	1946830093
SNP_P4_62720_43290006	NC_021163.1	Ca_kabuli_chr04	43290006	TT	AA	1946830095
SNP_P4_62721_43291265	NC_021163.1	Ca_kabuli_chr04	43291265	AA	CC	1946830097
SNP_P4_62723_43294938	NC_021163.1	Ca_kabuli_chr04	43294938	TT	CC	1946830099
SNP_P4_62725_43298432	NC_021163.1	Ca_kabuli_chr04	43298432	AA	GG	1946830101
SNP_P4_62726_43299191	NC_021163.1	Ca_kabuli_chr04	43299191	AA	TT	1946830103
SNP_P4_62727_43299760	NC_021163.1	Ca_kabuli_chr04	43299760	AA	GG	1946830105
SNP_P4_62728_43301079	NC_021163.1	Ca_kabuli_chr04	43301079	GG	AA	1946830106
SNP_P4_62730_43301251	NC_021163.1	Ca_kabuli_chr04	43301251	CC	TT	1946830108
SNP_P4_62731_43301586	NC_021163.1	Ca_kabuli_chr04	43301586	AA	CC	1946830110
SNP_P4_62732_43303587	NC_021163.1	Ca_kabuli_chr04	43303587	GG	CC	1946830112
SNP_P4_62733_43305940	NC_021163.1	Ca_kabuli_chr04	43305940	AA	GG	1946830114
SNP_P4_62734_43306800	NC_021163.1	Ca_kabuli_chr04	43306800	CC	TT	1946830116
SNP_P4_62735_43306830	NC_021163.1	Ca_kabuli_chr04	43306830	TT	CC	1946830118
SNP_P4_62736_43308349	NC_021163.1	Ca_kabuli_chr04	43308349	AA	TT	1946830120
SNP_P4_62737_43308358	NC_021163.1	Ca_kabuli_chr04	43308358	CC	AA	1946830122
SNP_P4_62738_43310446	NC_021163.1	Ca_kabuli_chr04	43310446	AA	TT	1946830124
SNP_P4_62739_43310639	NC_021163.1	Ca_kabuli_chr04	43310639	AA	TT	1946830126
SNP_P4_62740_43310640	NC_021163.1	Ca_kabuli_chr04	43310640	AA	TT	1946830128
SNP_P4_62742_43312953	NC_021163.1	Ca_kabuli_chr04	43312953	AA	TT	1946830129
SNP_P4_62743_43316125	NC_021163.1	Ca_kabuli_chr04	43316125	GG	AA	1946830131
SNP_P4_62744_43317151	NC_021163.1	Ca_kabuli_chr04	43317151	TT	CC	1946830133
SNP_P4_62745_43317173	NC_021163.1	Ca_kabuli_chr04	43317173	AA	GG	1946830135
SNP_P4_62746_43317276	NC_021163.1	Ca_kabuli_chr04	43317276	CC	TT	1946830137
SNP_P4_62747_43317320	NC_021163.1	Ca_kabuli_chr04	43317320	TT	AA	1946830139
SNP_P4_62748_43318076	NC_021163.1	Ca_kabuli_chr04	43318076	AA	GG	1946830141
SNP_P4_62749_43319040	NC_021163.1	Ca_kabuli_chr04	43319040	GG	AA	1946830143
SNP_P4_62750_43319057	NC_021163.1	Ca_kabuli_chr04	43319057	TT	AA	1946830145
SNP_P4_62751_43319098	NC_021163.1	Ca_kabuli_chr04	43319098	CC	TT	1946830147
SNP_P4_62753_43319180	NC_021163.1	Ca_kabuli_chr04	43319180	AA	CC	1946830149
SNP_P4_62754_43319207	NC_021163.1	Ca_kabuli_chr04	43319207	GG	TT	1946830151
SNP_P4_62755_43319208	NC_021163.1	Ca_kabuli_chr04	43319208	TT	GG	1946830153
SNP_P4_62756_43319251	NC_021163.1	Ca_kabuli_chr04	43319251	GG	CC	1946830155
SNP_P4_62757_43319360	NC_021163.1	Ca_kabuli_chr04	43319360	TT	CC	1946830157
SNP_P4_62758_43319378	NC_021163.1	Ca_kabuli_chr04	43319378	TT	GG	1946830159
SNP_P4_62759_43319709	NC_021163.1	Ca_kabuli_chr04	43319709	TT	CC	1946830161
SNP_P4_62761_43320142	NC_021163.1	Ca_kabuli_chr04	43320142	AA	GG	1946830163
SNP_P4_62762_43320591	NC_021163.1	Ca_kabuli_chr04	43320591	TT	CC	1946830165
SNP_P4_62763_43320666	NC_021163.1	Ca_kabuli_chr04	43320666	AA	GG	1946830167
SNP_P4_62764_43320692	NC_021163.1	Ca_kabuli_chr04	43320692	AA	TT	1946830169

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_62767_43323470	NC_021163.1	Ca_kabuli_chr04	43323470	CC	TT	1946830174
SNP_P4_62768_43323614	NC_021163.1	Ca_kabuli_chr04	43323614	TT	AA	1946830176
SNP_P4_62769_43323626	NC_021163.1	Ca_kabuli_chr04	43323626	GG	CC	1946830178
SNP_P4_62771_43325483	NC_021163.1	Ca_kabuli_chr04	43325483	TT	CC	1946830180
SNP_P4_62772_43326620	NC_021163.1	Ca_kabuli_chr04	43326620	CC	TT	1946830182
SNP_P4_62773_43327729	NC_021163.1	Ca_kabuli_chr04	43327729	TT	AA	1946830184
SNP_P4_62775_43328421	NC_021163.1	Ca_kabuli_chr04	43328421	CC	TT	1946830186
SNP_P4_62776_43332335	NC_021163.1	Ca_kabuli_chr04	43332335	GG	TT	1946830188
SNP_P4_62777_43332496	NC_021163.1	Ca_kabuli_chr04	43332496	GG	CC	1946830190
SNP_P4_62778_43332625	NC_021163.1	Ca_kabuli_chr04	43332625	GG	AA	1946830192
SNP_P4_62779_43333003	NC_021163.1	Ca_kabuli_chr04	43333003	AA	GG	1946830194
SNP_P4_62780_43333288	NC_021163.1	Ca_kabuli_chr04	43333288	AA	GG	1946830196
SNP_P4_62782_43334655	NC_021163.1	Ca_kabuli_chr04	43334655	GG	AA	1946830198
SNP_P4_62783_43334664	NC_021163.1	Ca_kabuli_chr04	43334664	GG	AA	1946830200
SNP_P4_62784_43334671	NC_021163.1	Ca_kabuli_chr04	43334671	AA	GG	1946830201
SNP_P4_62785_43334699	NC_021163.1	Ca_kabuli_chr04	43334699	CC	TT	1946830203
SNP_P4_62786_43334709	NC_021163.1	Ca_kabuli_chr04	43334709	AA	GG	1946830205
SNP_P4_62787_43339780	NC_021163.1	Ca_kabuli_chr04	43339780	GG	CC	1946830207
SNP_P4_62788_43339811	NC_021163.1	Ca_kabuli_chr04	43339811	AA	TT	1946830209
SNP_P4_62790_43340441	NC_021163.1	Ca_kabuli_chr04	43340441	AA	GG	1946830211
SNP_P4_62792_43346374	NC_021163.1	Ca_kabuli_chr04	43346374	CC	AA	1946830213
SNP_P4_62793_43346382	NC_021163.1	Ca_kabuli_chr04	43346382	GG	AA	1946830215
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SNP_P4_62796_43346631	NC_021163.1	Ca_kabuli_chr04	43346631	GG	CC	1946830219
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SNP_P4_62800_43350249	NC_021163.1	Ca_kabuli_chr04	43350249	AA	GG	1946830227
SNP_P4_62801_43350325	NC_021163.1	Ca_kabuli_chr04	43350325	TT	CC	1946830229
SNP_P4_62803_43350434	NC_021163.1	Ca_kabuli_chr04	43350434	TT	CC	1946830231
SNP_P4_62804_43350556	NC_021163.1	Ca_kabuli_chr04	43350556	CC	GG	1946830233
SNP_P4_62805_43350732	NC_021163.1	Ca_kabuli_chr04	43350732	TT	AA	1946830235
SNP_P4_62806_43351489	NC_021163.1	Ca_kabuli_chr04	43351489	AA	GG	1946830237
SNP_P4_62807_43351532	NC_021163.1	Ca_kabuli_chr04	43351532	CC	TT	1946830239
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SNP_P4_62809_43351911	NC_021163.1	Ca_kabuli_chr04	43351911	TT	CC	1946830243
SNP_P4_62810_43351960	NC_021163.1	Ca_kabuli_chr04	43351960	GG	AA	1946830244
SNP_P4_62811_43351967	NC_021163.1	Ca_kabuli_chr04	43351967	GG	AA	1946830246
SNP_P4_62812_43352422	NC_021163.1	Ca_kabuli_chr04	43352422	CC	TT	1946830248
SNP_P4_62813_43352428	NC_021163.1	Ca_kabuli_chr04	43352428	GG	TT	1946830250
SNP_P4_62814_43352449	NC_021163.1	Ca_kabuli_chr04	43352449	GG	AA	1946830252

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_62816_43359074	NC_021163.1	Ca_kabuli_chr04	43359074	AA	CC	1946830256
SNP_P4_62817_43359386	NC_021163.1	Ca_kabuli_chr04	43359386	AA	GG	1946830258
SNP_P4_62818_43359573	NC_021163.1	Ca_kabuli_chr04	43359573	GG	AA	1946830260
SNP_P4_62819_43363959	NC_021163.1	Ca_kabuli_chr04	43363959	CC	AA	1946830262
SNP_P4_62820_43369448	NC_021163.1	Ca_kabuli_chr04	43369448	TT	CC	1946830264
SNP_P4_62821_43369475	NC_021163.1	Ca_kabuli_chr04	43369475	GG	TT	1946830265
SNP_P4_62822_43370679	NC_021163.1	Ca_kabuli_chr04	43370679	TT	AA	1946830267
SNP_P4_62823_43372392	NC_021163.1	Ca_kabuli_chr04	43372392	TT	CC	1946830269
SNP_P4_62824_43372788	NC_021163.1	Ca_kabuli_chr04	43372788	AA	GG	1946830271
SNP_P4_62825_43373025	NC_021163.1	Ca_kabuli_chr04	43373025	CC	TT	1946830273
SNP_P4_62826_43380165	NC_021163.1	Ca_kabuli_chr04	43380165	AA	CC	1946830275
SNP_P4_62827_43380169	NC_021163.1	Ca_kabuli_chr04	43380169	AA	GG	1946830277
SNP_P4_62829_43383628	NC_021163.1	Ca_kabuli_chr04	43383628	CC	TT	1946830279
SNP_P4_62830_43384691	NC_021163.1	Ca_kabuli_chr04	43384691	AA	GG	1946830281
SNP_P4_62831_43385074	NC_021163.1	Ca_kabuli_chr04	43385074	GG	CC	1946830283
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SNP_P4_62838_43391027	NC_021163.1	Ca_kabuli_chr04	43391027	CC	TT	1946830297
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SNP_P4_62840_43399932	NC_021163.1	Ca_kabuli_chr04	43399932	TT	CC	1946830301
SNP_P4_62842_43403038	NC_021163.1	Ca_kabuli_chr04	43403038	GG	TT	1946830303
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SNP_P4_62844_43405958	NC_021163.1	Ca_kabuli_chr04	43405958	TT	AA	1946830307
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SNP_P4_62847_43409325	NC_021163.1	Ca_kabuli_chr04	43409325	TT	CC	1946830313
SNP_P4_62848_43409332	NC_021163.1	Ca_kabuli_chr04	43409332	TT	CC	1946830315
SNP_P4_62849_43409477	NC_021163.1	Ca_kabuli_chr04	43409477	AA	GG	1946830317
SNP_P4_62850_43409569	NC_021163.1	Ca_kabuli_chr04	43409569	TT	AA	1946830319
SNP_P4_62851_43412225	NC_021163.1	Ca_kabuli_chr04	43412225	TT	GG	1946830321
SNP_P4_62852_43412310	NC_021163.1	Ca_kabuli_chr04	43412310	CC	TT	1946830323
SNP_P4_62853_43412800	NC_021163.1	Ca_kabuli_chr04	43412800	CC	TT	1946830325
SNP_P4_62854_43412804	NC_021163.1	Ca_kabuli_chr04	43412804	CC	TT	1946830327
SNP_P4_62855_43413050	NC_021163.1	Ca_kabuli_chr04	43413050	AA	CC	1946830329
SNP_P4_62856_43413058	NC_021163.1	Ca_kabuli_chr04	43413058	TT	CC	1946830331
SNP_P4_62857_43413080	NC_021163.1	Ca_kabuli_chr04	43413080	TT	AA	1946830333
SNP_P4_62858_43413100	NC_021163.1	Ca_kabuli_chr04	43413100	CC	TT	1946830335

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_62859_43413108	NC_021163.1	Ca_kabuli_chr04	43413108	GG	AA	1946830337
SNP_P4_62860_43413214	NC_021163.1	Ca_kabuli_chr04	43413214	CC	AA	1946830339
SNP_P4_62861_43415549	NC_021163.1	Ca_kabuli_chr04	43415549	TT	CC	1946830341
SNP_P4_62862_43415557	NC_021163.1	Ca_kabuli_chr04	43415557	CC	TT	1946830343
SNP_P4_62863_43415681	NC_021163.1	Ca_kabuli_chr04	43415681	CC	TT	1946830345
SNP_P4_62864_43415705	NC_021163.1	Ca_kabuli_chr04	43415705	GG	TT	1946830347
SNP_P4_62865_43415732	NC_021163.1	Ca_kabuli_chr04	43415732	AA	GG	1946830349
SNP_P4_62866_43415764	NC_021163.1	Ca_kabuli_chr04	43415764	GG	AA	1946830351
SNP_P4_62867_43416166	NC_021163.1	Ca_kabuli_chr04	43416166	TT	CC	1946830353
SNP_P4_62868_43416229	NC_021163.1	Ca_kabuli_chr04	43416229	GG	AA	1946830355
SNP_P4_62870_43423071	NC_021163.1	Ca_kabuli_chr04	43423071	AA	GG	1946830357
SNP_P4_62871_43423369	NC_021163.1	Ca_kabuli_chr04	43423369	TT	CC	1946830359
SNP_P4_62872_43423393	NC_021163.1	Ca_kabuli_chr04	43423393	AA	TT	1946830361
SNP_P4_62874_43428002	NC_021163.1	Ca_kabuli_chr04	43428002	TT	AA	1946830363
SNP_P4_62875_43428696	NC_021163.1	Ca_kabuli_chr04	43428696	AA	TT	1946830365
SNP_P4_62876_43428923	NC_021163.1	Ca_kabuli_chr04	43428923	AA	CC	1946830366
SNP_P4_62877_43428963	NC_021163.1	Ca_kabuli_chr04	43428963	CC	TT	1946830368
SNP_P4_62878_43429069	NC_021163.1	Ca_kabuli_chr04	43429069	GG	AA	1946830370
SNP_P4_62879_43429417	NC_021163.1	Ca_kabuli_chr04	43429417	CC	TT	1946830372
SNP_P4_62880_43429460	NC_021163.1	Ca_kabuli_chr04	43429460	TT	GG	1946830374
SNP_P4_62881_43429461	NC_021163.1	Ca_kabuli_chr04	43429461	CC	GG	1946830376
SNP_P4_62882_43430742	NC_021163.1	Ca_kabuli_chr04	43430742	AA	CC	1946830378
SNP_P4_62883_43431031	NC_021163.1	Ca_kabuli_chr04	43431031	AA	GG	1946830380
SNP_P4_62884_43431241	NC_021163.1	Ca_kabuli_chr04	43431241	AA	CC	1946830382
SNP_P4_62885_43431815	NC_021163.1	Ca_kabuli_chr04	43431815	GG	TT	1946830384
SNP_P4_62886_43432206	NC_021163.1	Ca_kabuli_chr04	43432206	GG	AA	1946830386
SNP_P4_62887_43433748	NC_021163.1	Ca_kabuli_chr04	43433748	GG	AA	1946830388
SNP_P4_62888_43435887	NC_021163.1	Ca_kabuli_chr04	43435887	CC	AA	1946830390
SNP_P4_62889_43437272	NC_021163.1	Ca_kabuli_chr04	43437272	CC	TT	1946830392
SNP_P4_62890_43439412	NC_021163.1	Ca_kabuli_chr04	43439412	GG	TT	1946830394
SNP_P4_62891_43440079	NC_021163.1	Ca_kabuli_chr04	43440079	TT	CC	1946830396
SNP_P4_62892_43440356	NC_021163.1	Ca_kabuli_chr04	43440356	GG	TT	1946830398
SNP_P4_62893_43440655	NC_021163.1	Ca_kabuli_chr04	43440655	TT	CC	1946830399
SNP_P4_62894_43443922	NC_021163.1	Ca_kabuli_chr04	43443922	TT	GG	1946830401
SNP_P4_62895_43445271	NC_021163.1	Ca_kabuli_chr04	43445271	GG	AA	1946830403
SNP_P4_62896_43445551	NC_021163.1	Ca_kabuli_chr04	43445551	TT	GG	1946830405
SNP_P4_62897_43446017	NC_021163.1	Ca_kabuli_chr04	43446017	TT	CC	1946830407
SNP_P4_62898_43446203	NC_021163.1	Ca_kabuli_chr04	43446203	AA	TT	1946830409
SNP_P4_62900_43451306	NC_021163.1	Ca_kabuli_chr04	43451306	AA	GG	1946830411
SNP_P4_62901_43452951	NC_021163.1	Ca_kabuli_chr04	43452951	CC	TT	1946830413
SNP_P4_62902_43452952	NC_021163.1	Ca_kabuli_chr04	43452952	TT	CC	1946830415
SNP_P4_62903_43453318	NC_021163.1	Ca_kabuli_chr04	43453318	GG	TT	1946830417

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_62905_43453931	NC_021163.1	Ca_kabuli_chr04	43453931	CC	TT	1946830421
SNP_P4_62906_43454155	NC_021163.1	Ca_kabuli_chr04	43454155	TT	CC	1946830423
SNP_P4_62907_43454198	NC_021163.1	Ca_kabuli_chr04	43454198	CC	TT	1946830425
SNP_P4_62908_43454208	NC_021163.1	Ca_kabuli_chr04	43454208	GG	TT	1946830427
SNP_P4_62909_43454785	NC_021163.1	Ca_kabuli_chr04	43454785	TT	CC	1946830429
SNP_P4_62910_43455205	NC_021163.1	Ca_kabuli_chr04	43455205	AA	CC	1946830430
SNP_P4_62911_43455898	NC_021163.1	Ca_kabuli_chr04	43455898	GG	AA	1946830432
SNP_P4_62912_43456133	NC_021163.1	Ca_kabuli_chr04	43456133	TT	CC	1946830434
SNP_P4_62913_43456159	NC_021163.1	Ca_kabuli_chr04	43456159	AA	GG	1946830436
SNP_P4_62914_43458698	NC_021163.1	Ca_kabuli_chr04	43458698	GG	CC	1946830438
SNP_P4_62916_43459016	NC_021163.1	Ca_kabuli_chr04	43459016	TT	GG	1946830440
SNP_P4_62917_43459021	NC_021163.1	Ca_kabuli_chr04	43459021	AA	GG	1946830442
SNP_P4_62918_43459249	NC_021163.1	Ca_kabuli_chr04	43459249	TT	AA	1946830444
SNP_P4_62919_43459252	NC_021163.1	Ca_kabuli_chr04	43459252	AA	CC	1946830446
SNP_P4_62920_43459284	NC_021163.1	Ca_kabuli_chr04	43459284	CC	AA	1946830447
SNP_P4_62921_43459294	NC_021163.1	Ca_kabuli_chr04	43459294	CC	TT	1946830450
SNP_P4_62922_43459465	NC_021163.1	Ca_kabuli_chr04	43459465	CC	TT	1946830452
SNP_P4_62923_43459466	NC_021163.1	Ca_kabuli_chr04	43459466	TT	CC	1946830454
SNP_P4_62924_43459475	NC_021163.1	Ca_kabuli_chr04	43459475	TT	CC	1946830456
SNP_P4_62926_43459710	NC_021163.1	Ca_kabuli_chr04	43459710	TT	CC	1946830457
SNP_P4_62927_43459742	NC_021163.1	Ca_kabuli_chr04	43459742	CC	TT	1946830459
SNP_P4_62928_43459793	NC_021163.1	Ca_kabuli_chr04	43459793	TT	CC	1946830461
SNP_P4_62929_43460170	NC_021163.1	Ca_kabuli_chr04	43460170	AA	GG	1946830463
SNP_P4_62931_43468666	NC_021163.1	Ca_kabuli_chr04	43468666	AA	CC	1946830465
SNP_P4_62932_43468726	NC_021163.1	Ca_kabuli_chr04	43468726	AA	GG	1946830467
SNP_P4_62933_43472852	NC_021163.1	Ca_kabuli_chr04	43472852	CC	TT	1946830469
SNP_P4_62934_43475040	NC_021163.1	Ca_kabuli_chr04	43475040	TT	CC	1946830471
SNP_P4_62935_43475093	NC_021163.1	Ca_kabuli_chr04	43475093	GG	TT	1946830473
SNP_P4_62936_43475150	NC_021163.1	Ca_kabuli_chr04	43475150	GG	TT	1946830475
SNP_P4_62938_43475535	NC_021163.1	Ca_kabuli_chr04	43475535	AA	GG	1946830477
SNP_P4_62939_43475547	NC_021163.1	Ca_kabuli_chr04	43475547	CC	TT	1946830479
SNP_P4_62940_43475563	NC_021163.1	Ca_kabuli_chr04	43475563	CC	AA	1946830481
SNP_P4_62941_43477625	NC_021163.1	Ca_kabuli_chr04	43477625	AA	GG	1946830483
SNP_P4_62942_43477629	NC_021163.1	Ca_kabuli_chr04	43477629	GG	AA	1946830485
SNP_P4_62943_43485327	NC_021163.1	Ca_kabuli_chr04	43485327	TT	CC	1946830487
SNP_P4_62945_43490887	NC_021163.1	Ca_kabuli_chr04	43490887	GG	AA	1946830489
SNP_P4_62947_43497657	NC_021163.1	Ca_kabuli_chr04	43497657	AA	GG	1946830491
SNP_P4_62948_43510547	NC_021163.1	Ca_kabuli_chr04	43510547	AA	GG	1946830493
SNP_P4_62949_43510707	NC_021163.1	Ca_kabuli_chr04	43510707	TT	CC	1946830495
SNP_P4_62950_43510740	NC_021163.1	Ca_kabuli_chr04	43510740	TT	CC	1946830498
SNP_P4_62951_43510916	NC_021163.1	Ca_kabuli_chr04	43510916	CC	TT	1946830500

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_62953_43511138	NC_021163.1	Ca_kabuli_chr04	43511138	GG	AA	1946830505
SNP_P4_62954_43517839	NC_021163.1	Ca_kabuli_chr04	43517839	TT	GG	1946830507
SNP_P4_62955_43517860	NC_021163.1	Ca_kabuli_chr04	43517860	TT	CC	1946830509
SNP_P4_62957_43518569	NC_021163.1	Ca_kabuli_chr04	43518569	TT	CC	1946830511
SNP_P4_62960_43524377	NC_021163.1	Ca_kabuli_chr04	43524377	GG	CC	1946830513
SNP_P4_62961_43525473	NC_021163.1	Ca_kabuli_chr04	43525473	AA	TT	1946830515
SNP_P4_62962_43525676	NC_021163.1	Ca_kabuli_chr04	43525676	GG	AA	1946830517
SNP_P4_62963_43532712	NC_021163.1	Ca_kabuli_chr04	43532712	AA	GG	1946830519
SNP_P4_62964_43532750	NC_021163.1	Ca_kabuli_chr04	43532750	GG	TT	1946830520
SNP_P4_62965_43533107	NC_021163.1	Ca_kabuli_chr04	43533107	AA	GG	1946830521
SNP_P4_62966_43533141	NC_021163.1	Ca_kabuli_chr04	43533141	GG	AA	1946830522
SNP_P4_62967_43533161	NC_021163.1	Ca_kabuli_chr04	43533161	CC	AA	1946830524
SNP_P4_62968_43533278	NC_021163.1	Ca_kabuli_chr04	43533278	TT	AA	1946830526
SNP_P4_62969_43533662	NC_021163.1	Ca_kabuli_chr04	43533662	GG	TT	1946830528
SNP_P4_62970_43534467	NC_021163.1	Ca_kabuli_chr04	43534467	TT	AA	1946830530
SNP_P4_62971_43535093	NC_021163.1	Ca_kabuli_chr04	43535093	CC	TT	1946830532
SNP_P4_62972_43535113	NC_021163.1	Ca_kabuli_chr04	43535113	GG	AA	1946830534
SNP_P4_62973_43535205	NC_021163.1	Ca_kabuli_chr04	43535205	CC	GG	1946830536
SNP_P4_62974_43536329	NC_021163.1	Ca_kabuli_chr04	43536329	CC	TT	1946830538
SNP_P4_62975_43536529	NC_021163.1	Ca_kabuli_chr04	43536529	AA	TT	1946830540
SNP_P4_62977_43544323	NC_021163.1	Ca_kabuli_chr04	43544323	CC	TT	1946830542
SNP_P4_62979_43544465	NC_021163.1	Ca_kabuli_chr04	43544465	CC	TT	1946830544
SNP_P4_62980_43545048	NC_021163.1	Ca_kabuli_chr04	43545048	TT	CC	1946830546
SNP_P4_62981_43545730	NC_021163.1	Ca_kabuli_chr04	43545730	CC	TT	1946830548
SNP_P4_62982_43545777	NC_021163.1	Ca_kabuli_chr04	43545777	CC	AA	1946830550
SNP_P4_62983_43546882	NC_021163.1	Ca_kabuli_chr04	43546882	GG	CC	1946830552
SNP_P4_62984_43548204	NC_021163.1	Ca_kabuli_chr04	43548204	GG	TT	1946830554
SNP_P4_62985_43548958	NC_021163.1	Ca_kabuli_chr04	43548958	CC	TT	1946830556
SNP_P4_62987_43549657	NC_021163.1	Ca_kabuli_chr04	43549657	TT	CC	1946830558
SNP_P4_62988_43549766	NC_021163.1	Ca_kabuli_chr04	43549766	AA	TT	1946830560
SNP_P4_62990_43549834	NC_021163.1	Ca_kabuli_chr04	43549834	TT	AA	1946830562
SNP_P4_62991_43550014	NC_021163.1	Ca_kabuli_chr04	43550014	GG	AA	1946830564
SNP_P4_62992_43553391	NC_021163.1	Ca_kabuli_chr04	43553391	AA	GG	1946830566
SNP_P4_62994_43553696	NC_021163.1	Ca_kabuli_chr04	43553696	AA	GG	1946830568
SNP_P4_62995_43553701	NC_021163.1	Ca_kabuli_chr04	43553701	TT	AA	1946830570
SNP_P4_62996_43554609	NC_021163.1	Ca_kabuli_chr04	43554609	GG	AA	1946830572
SNP_P4_62997_43556330	NC_021163.1	Ca_kabuli_chr04	43556330	CC	GG	1946830574
SNP_P4_62998_43556630	NC_021163.1	Ca_kabuli_chr04	43556630	CC	TT	1946830576
SNP_P4_62999_43557305	NC_021163.1	Ca_kabuli_chr04	43557305	TT	GG	1946830578
SNP_P4_63000_43559153	NC_021163.1	Ca_kabuli_chr04	43559153	TT	CC	1946830580
SNP_P4_63001_43560074	NC_021163.1	Ca_kabuli_chr04	43560074	CC	TT	1946830582

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_63003_43560773	NC_021163.1	Ca_kabuli_chr04	43560773	AA	GG	1946830586
SNP_P4_63004_43560953	NC_021163.1	Ca_kabuli_chr04	43560953	AA	GG	1946830588
SNP_P4_63005_43561094	NC_021163.1	Ca_kabuli_chr04	43561094	AA	GG	1946830591
SNP_P4_63006_43561230	NC_021163.1	Ca_kabuli_chr04	43561230	GG	AA	1946830593
SNP_P4_63007_43561433	NC_021163.1	Ca_kabuli_chr04	43561433	CC	TT	1946830595
SNP_P4_63008_43562549	NC_021163.1	Ca_kabuli_chr04	43562549	TT	AA	1946830597
SNP_P4_63010_43565657	NC_021163.1	Ca_kabuli_chr04	43565657	GG	TT	1946830599
SNP_P4_63011_43565669	NC_021163.1	Ca_kabuli_chr04	43565669	AA	GG	1946830601
SNP_P4_63012_43566091	NC_021163.1	Ca_kabuli_chr04	43566091	TT	GG	1946830603
SNP_P4_63014_43566444	NC_021163.1	Ca_kabuli_chr04	43566444	CC	TT	1946830605
SNP_P4_63015_43566451	NC_021163.1	Ca_kabuli_chr04	43566451	CC	GG	1946830607
SNP_P4_63016_43566918	NC_021163.1	Ca_kabuli_chr04	43566918	TT	CC	1946830609
SNP_P4_63017_43568798	NC_021163.1	Ca_kabuli_chr04	43568798	GG	AA	1946830611
SNP_P4_63018_43569305	NC_021163.1	Ca_kabuli_chr04	43569305	AA	GG	1946830613
SNP_P4_63020_43570372	NC_021163.1	Ca_kabuli_chr04	43570372	TT	GG	1946830615
SNP_P4_63021_43573252	NC_021163.1	Ca_kabuli_chr04	43573252	GG	AA	1946830617
SNP_P4_63022_43579433	NC_021163.1	Ca_kabuli_chr04	43579433	TT	AA	1946830619
SNP_P4_63023_43579481	NC_021163.1	Ca_kabuli_chr04	43579481	AA	TT	1946830621
SNP_P4_63024_43579547	NC_021163.1	Ca_kabuli_chr04	43579547	CC	TT	1946830623
SNP_P4_63025_43605201	NC_021163.1	Ca_kabuli_chr04	43605201	TT	CC	1946830625
SNP_P4_63026_43606280	NC_021163.1	Ca_kabuli_chr04	43606280	GG	AA	1946830627
SNP_P4_63027_43620208	NC_021163.1	Ca_kabuli_chr04	43620208	AA	GG	1946830629
SNP_P4_63028_43636143	NC_021163.1	Ca_kabuli_chr04	43636143	CC	TT	1946830631
SNP_P4_63030_43664752	NC_021163.1	Ca_kabuli_chr04	43664752	GG	TT	1946830633
SNP_P4_63031_43664763	NC_021163.1	Ca_kabuli_chr04	43664763	CC	TT	1946830635
SNP_P4_63032_43665084	NC_021163.1	Ca_kabuli_chr04	43665084	TT	AA	1946830637
SNP_P4_63033_43734593	NC_021163.1	Ca_kabuli_chr04	43734593	AA	CC	1946830639
SNP_P4_63034_43757371	NC_021163.1	Ca_kabuli_chr04	43757371	CC	GG	1946830641
SNP_P4_63035_43757413	NC_021163.1	Ca_kabuli_chr04	43757413	AA	GG	1946830643
SNP_P4_63036_43757476	NC_021163.1	Ca_kabuli_chr04	43757476	TT	CC	1946830645
SNP_P4_63037_43757505	NC_021163.1	Ca_kabuli_chr04	43757505	AA	GG	1946830647
SNP_P4_63038_43774619	NC_021163.1	Ca_kabuli_chr04	43774619	AA	TT	1946830649
SNP_P4_63039_43789693	NC_021163.1	Ca_kabuli_chr04	43789693	TT	GG	1946830651
SNP_P4_63040_43789713	NC_021163.1	Ca_kabuli_chr04	43789713	GG	CC	1946830653
SNP_P4_63041_43819386	NC_021163.1	Ca_kabuli_chr04	43819386	AA	GG	1946830655
SNP_P4_63042_43849763	NC_021163.1	Ca_kabuli_chr04	43849763	CC	TT	1946830657
SNP_P4_63043_43871457	NC_021163.1	Ca_kabuli_chr04	43871457	AA	CC	1946830659
SNP_P4_63044_43879745	NC_021163.1	Ca_kabuli_chr04	43879745	GG	AA	1946830661
SNP_P4_63045_43887084	NC_021163.1	Ca_kabuli_chr04	43887084	CC	AA	1946830663
SNP_P4_63048_43916021	NC_021163.1	Ca_kabuli_chr04	43916021	AA	GG	1946830665
SNP_P4_63049_43971987	NC_021163.1	Ca_kabuli_chr04	43971987	TT	AA	1946830667

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_63053_44000923	NC_021163.1	Ca_kabuli_chr04	44000923	TT	CC	1946830671
SNP_P4_63054_44039297	NC_021163.1	Ca_kabuli_chr04	44039297	TT	CC	1946830673
SNP_P4_63055_44041572	NC_021163.1	Ca_kabuli_chr04	44041572	CC	GG	1946830675
SNP_P4_63056_44096498	NC_021163.1	Ca_kabuli_chr04	44096498	AA	GG	1946830677
SNP_P4_63057_44134103	NC_021163.1	Ca_kabuli_chr04	44134103	CC	TT	1946830679
SNP_P4_63058_44134618	NC_021163.1	Ca_kabuli_chr04	44134618	CC	TT	1946830681
SNP_P4_63059_44134635	NC_021163.1	Ca_kabuli_chr04	44134635	AA	GG	1946830683
SNP_P4_63060_44134674	NC_021163.1	Ca_kabuli_chr04	44134674	CC	TT	1946830685
SNP_P4_63061_44134774	NC_021163.1	Ca_kabuli_chr04	44134774	AA	GG	1946830687
SNP_P4_63062_44134836	NC_021163.1	Ca_kabuli_chr04	44134836	CC	TT	1946830689
SNP_P4_63063_44134954	NC_021163.1	Ca_kabuli_chr04	44134954	AA	GG	1946830691
SNP_P4_63064_44135047	NC_021163.1	Ca_kabuli_chr04	44135047	TT	CC	1946830694
SNP_P4_63065_44135050	NC_021163.1	Ca_kabuli_chr04	44135050	CC	TT	1946830696
SNP_P4_63066_44135175	NC_021163.1	Ca_kabuli_chr04	44135175	TT	CC	1946830698
SNP_P4_63067_44135203	NC_021163.1	Ca_kabuli_chr04	44135203	TT	AA	1946830700
SNP_P4_63068_44135205	NC_021163.1	Ca_kabuli_chr04	44135205	TT	CC	1946830702
SNP_P4_63069_44135241	NC_021163.1	Ca_kabuli_chr04	44135241	AA	GG	1946830704
SNP_P4_63070_44135380	NC_021163.1	Ca_kabuli_chr04	44135380	AA	CC	1946830706
SNP_P4_63071_44163792	NC_021163.1	Ca_kabuli_chr04	44163792	AA	TT	1946830708
SNP_P4_63072_44163793	NC_021163.1	Ca_kabuli_chr04	44163793	CC	AA	1946830710
SNP_P4_63073_44191103	NC_021163.1	Ca_kabuli_chr04	44191103	GG	CC	1946830713
SNP_P4_63074_44198065	NC_021163.1	Ca_kabuli_chr04	44198065	GG	CC	1946830715
SNP_P4_63075_44198072	NC_021163.1	Ca_kabuli_chr04	44198072	CC	TT	1946830718
SNP_P4_63076_44198550	NC_021163.1	Ca_kabuli_chr04	44198550	AA	GG	1946830721
SNP_P4_63077_44198555	NC_021163.1	Ca_kabuli_chr04	44198555	AA	GG	1946830723
SNP_P4_63078_44213361	NC_021163.1	Ca_kabuli_chr04	44213361	CC	TT	1946830725
SNP_P4_63079_44214537	NC_021163.1	Ca_kabuli_chr04	44214537	GG	AA	1946830727
SNP_P4_63080_44214538	NC_021163.1	Ca_kabuli_chr04	44214538	AA	CC	1946830729
SNP_P4_63081_44214566	NC_021163.1	Ca_kabuli_chr04	44214566	TT	AA	1946830731
SNP_P4_63082_44215626	NC_021163.1	Ca_kabuli_chr04	44215626	CC	AA	1946830733
SNP_P4_63083_44215639	NC_021163.1	Ca_kabuli_chr04	44215639	CC	TT	1946830735
SNP_P4_63084_44219092	NC_021163.1	Ca_kabuli_chr04	44219092	CC	TT	1946830737
SNP_P4_63085_44227647	NC_021163.1	Ca_kabuli_chr04	44227647	GG	AA	1946830739
SNP_P4_63086_44227720	NC_021163.1	Ca_kabuli_chr04	44227720	CC	TT	1946830741
SNP_P4_63087_44235280	NC_021163.1	Ca_kabuli_chr04	44235280	AA	GG	1946830743
SNP_P4_63088_44240915	NC_021163.1	Ca_kabuli_chr04	44240915	GG	TT	1946830745
SNP_P4_63089_44240989	NC_021163.1	Ca_kabuli_chr04	44240989	TT	GG	1946830747
SNP_P4_63090_44247689	NC_021163.1	Ca_kabuli_chr04	44247689	GG	AA	1946830749
SNP_P4_63091_44250828	NC_021163.1	Ca_kabuli_chr04	44250828	GG	AA	1946830751
SNP_P4_63092_44256389	NC_021163.1	Ca_kabuli_chr04	44256389	CC	AA	1946830753
SNP_P4_63093_44267500	NC_021163.1	Ca_kabuli_chr04	44267500	GG	AA	1946830755

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_63095_44281587	NC_021163.1	Ca_kabuli_chr04	44281587	CC	TT	1946830759
SNP_P4_63096_44287684	NC_021163.1	Ca_kabuli_chr04	44287684	CC	TT	1946830761
SNP_P4_63097_44293924	NC_021163.1	Ca_kabuli_chr04	44293924	CC	AA	1946830763
SNP_P4_63098_44294024	NC_021163.1	Ca_kabuli_chr04	44294024	CC	TT	1946830765
SNP_P4_63099_44294073	NC_021163.1	Ca_kabuli_chr04	44294073	AA	GG	1946830767
SNP_P4_63100_44294102	NC_021163.1	Ca_kabuli_chr04	44294102	AA	TT	1946830769
SNP_P4_63101_44294103	NC_021163.1	Ca_kabuli_chr04	44294103	CC	GG	1946830771
SNP_P4_63102_44294308	NC_021163.1	Ca_kabuli_chr04	44294308	GG	TT	1946830773
SNP_P4_63103_44294440	NC_021163.1	Ca_kabuli_chr04	44294440	TT	GG	1946830775
SNP_P4_63104_44294514	NC_021163.1	Ca_kabuli_chr04	44294514	TT	CC	1946830777
SNP_P4_63105_44294595	NC_021163.1	Ca_kabuli_chr04	44294595	TT	CC	1946830779
SNP_P4_63106_44294621	NC_021163.1	Ca_kabuli_chr04	44294621	AA	GG	1946830781
SNP_P4_63107_44294737	NC_021163.1	Ca_kabuli_chr04	44294737	TT	CC	1946830783
SNP_P4_63108_44294965	NC_021163.1	Ca_kabuli_chr04	44294965	AA	TT	1946830785
SNP_P4_63109_44294987	NC_021163.1	Ca_kabuli_chr04	44294987	CC	TT	1946830787
SNP_P4_63110_44295073	NC_021163.1	Ca_kabuli_chr04	44295073	AA	GG	1946830789
SNP_P4_63111_44295162	NC_021163.1	Ca_kabuli_chr04	44295162	AA	GG	1946830791
SNP_P4_63112_44295260	NC_021163.1	Ca_kabuli_chr04	44295260	CC	TT	1946830793
SNP_P4_63113_44295280	NC_021163.1	Ca_kabuli_chr04	44295280	AA	CC	1946830795
SNP_P4_63114_44295325	NC_021163.1	Ca_kabuli_chr04	44295325	TT	CC	1946830798
SNP_P4_63116_44342714	NC_021163.1	Ca_kabuli_chr04	44342714	CC	TT	1946830800
SNP_P4_63118_44346629	NC_021163.1	Ca_kabuli_chr04	44346629	CC	TT	1946830802
SNP_P4_63119_44376515	NC_021163.1	Ca_kabuli_chr04	44376515	TT	CC	1946830804
SNP_P4_63120_44383617	NC_021163.1	Ca_kabuli_chr04	44383617	GG	AA	1946830806
SNP_P4_63121_44417167	NC_021163.1	Ca_kabuli_chr04	44417167	TT	AA	1946830808
SNP_P4_63123_44444484	NC_021163.1	Ca_kabuli_chr04	44444484	AA	CC	1946830810
SNP_P4_63124_44470789	NC_021163.1	Ca_kabuli_chr04	44470789	CC	TT	1946830812
SNP_P4_63125_44486683	NC_021163.1	Ca_kabuli_chr04	44486683	CC	GG	1946830814
SNP_P4_63126_44486701	NC_021163.1	Ca_kabuli_chr04	44486701	AA	GG	1946830816
SNP_P4_63127_44486751	NC_021163.1	Ca_kabuli_chr04	44486751	AA	TT	1946830818
SNP_P4_63129_44486880	NC_021163.1	Ca_kabuli_chr04	44486880	AA	GG	1946830820
SNP_P4_63130_44486897	NC_021163.1	Ca_kabuli_chr04	44486897	TT	CC	1946830822
SNP_P4_63131_44488004	NC_021163.1	Ca_kabuli_chr04	44488004	CC	TT	1946830824
SNP_P4_63132_44488011	NC_021163.1	Ca_kabuli_chr04	44488011	TT	CC	1946830826
SNP_P4_63134_44488499	NC_021163.1	Ca_kabuli_chr04	44488499	GG	CC	1946830828
SNP_P4_63135_44489285	NC_021163.1	Ca_kabuli_chr04	44489285	AA	GG	1946830830
SNP_P4_63136_44489336	NC_021163.1	Ca_kabuli_chr04	44489336	GG	AA	1946830832
SNP_P4_63137_44489347	NC_021163.1	Ca_kabuli_chr04	44489347	TT	AA	1946830834
SNP_P4_63139_44489409	NC_021163.1	Ca_kabuli_chr04	44489409	TT	CC	1946830836
SNP_P4_63140_44489494	NC_021163.1	Ca_kabuli_chr04	44489494	AA	GG	1946830838
SNP_P4_63142_44489916	NC_021163.1	Ca_kabuli_chr04	44489916	AA	TT	1946830840

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_63145_44490616	NC_021163.1	Ca_kabuli_chr04	44490616	CC	AA	1946830844
SNP_P4_63146_44490626	NC_021163.1	Ca_kabuli_chr04	44490626	AA	GG	1946830846
SNP_P4_63147_44490629	NC_021163.1	Ca_kabuli_chr04	44490629	TT	GG	1946830848
SNP_P4_63148_44490641	NC_021163.1	Ca_kabuli_chr04	44490641	TT	CC	1946830850
SNP_P4_63149_44490932	NC_021163.1	Ca_kabuli_chr04	44490932	TT	CC	1946830852
SNP_P4_63150_44490951	NC_021163.1	Ca_kabuli_chr04	44490951	CC	TT	1946830854
SNP_P4_63151_44490979	NC_021163.1	Ca_kabuli_chr04	44490979	AA	GG	1946830856
SNP_P4_63152_44491409	NC_021163.1	Ca_kabuli_chr04	44491409	TT	AA	1946830858
SNP_P4_63153_44491424	NC_021163.1	Ca_kabuli_chr04	44491424	TT	GG	1946830860
SNP_P4_63154_44493109	NC_021163.1	Ca_kabuli_chr04	44493109	TT	CC	1946830862
SNP_P4_63156_44493154	NC_021163.1	Ca_kabuli_chr04	44493154	GG	CC	1946830864
SNP_P4_63157_44493176	NC_021163.1	Ca_kabuli_chr04	44493176	TT	GG	1946830866
SNP_P4_63159_44496711	NC_021163.1	Ca_kabuli_chr04	44496711	CC	TT	1946830867
SNP_P4_63160_44496827	NC_021163.1	Ca_kabuli_chr04	44496827	AA	GG	1946830869
SNP_P4_63161_44499501	NC_021163.1	Ca_kabuli_chr04	44499501	CC	TT	1946830871
SNP_P4_63162_44499513	NC_021163.1	Ca_kabuli_chr04	44499513	CC	TT	1946830873
SNP_P4_63163_44499810	NC_021163.1	Ca_kabuli_chr04	44499810	AA	CC	1946830875
SNP_P4_63164_44499848	NC_021163.1	Ca_kabuli_chr04	44499848	GG	AA	1946830877
SNP_P4_63165_44499860	NC_021163.1	Ca_kabuli_chr04	44499860	TT	GG	1946830879
SNP_P4_63166_44499914	NC_021163.1	Ca_kabuli_chr04	44499914	TT	AA	1946830881
SNP_P4_63167_44500104	NC_021163.1	Ca_kabuli_chr04	44500104	TT	CC	1946830883
SNP_P4_63168_44501366	NC_021163.1	Ca_kabuli_chr04	44501366	TT	CC	1946830885
SNP_P4_63169_44501401	NC_021163.1	Ca_kabuli_chr04	44501401	AA	TT	1946830887
SNP_P4_63170_44501445	NC_021163.1	Ca_kabuli_chr04	44501445	TT	CC	1946830889
SNP_P4_63171_44501589	NC_021163.1	Ca_kabuli_chr04	44501589	CC	TT	1946830891
SNP_P4_63172_44501700	NC_021163.1	Ca_kabuli_chr04	44501700	TT	CC	1946830893
SNP_P4_63173_44501936	NC_021163.1	Ca_kabuli_chr04	44501936	CC	TT	1946830895
SNP_P4_63174_44502032	NC_021163.1	Ca_kabuli_chr04	44502032	GG	TT	1946830897
SNP_P4_63175_44502076	NC_021163.1	Ca_kabuli_chr04	44502076	GG	AA	1946830899
SNP_P4_63176_44502558	NC_021163.1	Ca_kabuli_chr04	44502558	GG	TT	1946830901
SNP_P4_63177_44502562	NC_021163.1	Ca_kabuli_chr04	44502562	AA	TT	1946830903
SNP_P4_63178_44505118	NC_021163.1	Ca_kabuli_chr04	44505118	AA	CC	1946830905
SNP_P4_63179_44505153	NC_021163.1	Ca_kabuli_chr04	44505153	CC	TT	1946830907
SNP_P4_63180_44505420	NC_021163.1	Ca_kabuli_chr04	44505420	AA	TT	1946830909
SNP_P4_63181_44505436	NC_021163.1	Ca_kabuli_chr04	44505436	AA	GG	1946830911
SNP_P4_63182_44505442	NC_021163.1	Ca_kabuli_chr04	44505442	CC	TT	1946830913
SNP_P4_63183_44505470	NC_021163.1	Ca_kabuli_chr04	44505470	CC	AA	1946830915
SNP_P4_63184_44505672	NC_021163.1	Ca_kabuli_chr04	44505672	GG	AA	1946830917
SNP_P4_63185_44506105	NC_021163.1	Ca_kabuli_chr04	44506105	CC	AA	1946830919
SNP_P4_63186_44507256	NC_021163.1	Ca_kabuli_chr04	44507256	AA	GG	1946830921
SNP_P4_63187_44507258	NC_021163.1	Ca_kabuli_chr04	44507258	GG	CC	1946830923

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_63189_44507910	NC_021163.1	Ca_kabuli_chr04	44507910	TT	AA	1946830927
SNP_P4_63190_44507915	NC_021163.1	Ca_kabuli_chr04	44507915	AA	GG	1946830929
SNP_P4_63192_44507952	NC_021163.1	Ca_kabuli_chr04	44507952	AA	TT	1946830931
SNP_P4_63193_44508550	NC_021163.1	Ca_kabuli_chr04	44508550	CC	AA	1946830933
SNP_P4_63194_44508912	NC_021163.1	Ca_kabuli_chr04	44508912	AA	TT	1946830935
SNP_P4_63195_44508914	NC_021163.1	Ca_kabuli_chr04	44508914	AA	CC	1946830937
SNP_P4_63196_44508924	NC_021163.1	Ca_kabuli_chr04	44508924	AA	CC	1946830939
SNP_P4_63197_44509221	NC_021163.1	Ca_kabuli_chr04	44509221	CC	AA	1946830941
SNP_P4_63198_44509547	NC_021163.1	Ca_kabuli_chr04	44509547	AA	GG	1946830943
SNP_P4_63199_44509584	NC_021163.1	Ca_kabuli_chr04	44509584	CC	AA	1946830945
SNP_P4_63200_44509589	NC_021163.1	Ca_kabuli_chr04	44509589	TT	CC	1946830947
SNP_P4_63201_44509702	NC_021163.1	Ca_kabuli_chr04	44509702	TT	GG	1946830949
SNP_P4_63202_44509879	NC_021163.1	Ca_kabuli_chr04	44509879	GG	CC	1946830951
SNP_P4_63203_44510093	NC_021163.1	Ca_kabuli_chr04	44510093	AA	GG	1946830953
SNP_P4_63204_44510134	NC_021163.1	Ca_kabuli_chr04	44510134	AA	GG	1946830955
SNP_P4_63205_44510297	NC_021163.1	Ca_kabuli_chr04	44510297	CC	TT	1946830957
SNP_P4_63206_44510311	NC_021163.1	Ca_kabuli_chr04	44510311	CC	TT	1946830960
SNP_P4_63207_44510505	NC_021163.1	Ca_kabuli_chr04	44510505	TT	CC	1946830962
SNP_P4_63208_44510554	NC_021163.1	Ca_kabuli_chr04	44510554	AA	GG	1946830964
SNP_P4_63209_44510842	NC_021163.1	Ca_kabuli_chr04	44510842	TT	CC	1946830966
SNP_P4_63210_44510850	NC_021163.1	Ca_kabuli_chr04	44510850	CC	AA	1946830968
SNP_P4_63212_44511512	NC_021163.1	Ca_kabuli_chr04	44511512	CC	AA	1946830970
SNP_P4_63213_44512150	NC_021163.1	Ca_kabuli_chr04	44512150	CC	AA	1946830972
SNP_P4_63214_44512391	NC_021163.1	Ca_kabuli_chr04	44512391	AA	GG	1946830974
SNP_P4_63215_44512442	NC_021163.1	Ca_kabuli_chr04	44512442	GG	AA	1946830976
SNP_P4_63216_44512690	NC_021163.1	Ca_kabuli_chr04	44512690	CC	TT	1946830978
SNP_P4_63217_44513092	NC_021163.1	Ca_kabuli_chr04	44513092	GG	CC	1946830980
SNP_P4_63218_44513423	NC_021163.1	Ca_kabuli_chr04	44513423	CC	TT	1946830983
SNP_P4_63219_44513699	NC_021163.1	Ca_kabuli_chr04	44513699	TT	CC	1946830985
SNP_P4_63220_44513942	NC_021163.1	Ca_kabuli_chr04	44513942	GG	AA	1946830987
SNP_P4_63221_44513956	NC_021163.1	Ca_kabuli_chr04	44513956	GG	AA	1946830989
SNP_P4_63222_44514311	NC_021163.1	Ca_kabuli_chr04	44514311	CC	TT	1946830991
SNP_P4_63223_44514344	NC_021163.1	Ca_kabuli_chr04	44514344	TT	AA	1946830993
SNP_P4_63224_44515060	NC_021163.1	Ca_kabuli_chr04	44515060	TT	GG	1946830995
SNP_P4_63225_44515063	NC_021163.1	Ca_kabuli_chr04	44515063	TT	CC	1946830997
SNP_P4_63226_44515240	NC_021163.1	Ca_kabuli_chr04	44515240	TT	GG	1946830999
SNP_P4_63227_44515474	NC_021163.1	Ca_kabuli_chr04	44515474	TT	CC	1946831000
SNP_P4_63228_44515495	NC_021163.1	Ca_kabuli_chr04	44515495	CC	AA	1946831002
SNP_P4_63229_44518779	NC_021163.1	Ca_kabuli_chr04	44518779	AA	GG	1946831004
SNP_P4_63230_44519129	NC_021163.1	Ca_kabuli_chr04	44519129	AA	CC	1946831006
SNP_P4_63231_44519131	NC_021163.1	Ca_kabuli_chr04	44519131	CC	AA	1946831008

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_63233_44520962	NC_021163.1	Ca_kabuli_chr04	44520962	TT	GG	1946831013
SNP_P4_63236_44523249	NC_021163.1	Ca_kabuli_chr04	44523249	TT	CC	1946831015
SNP_P4_63237_44523295	NC_021163.1	Ca_kabuli_chr04	44523295	TT	CC	1946831017
SNP_P4_63238_44523560	NC_021163.1	Ca_kabuli_chr04	44523560	TT	AA	1946831019
SNP_P4_63240_44524461	NC_021163.1	Ca_kabuli_chr04	44524461	GG	AA	1946831021
SNP_P4_63241_44524708	NC_021163.1	Ca_kabuli_chr04	44524708	AA	TT	1946831023
SNP_P4_63242_44524752	NC_021163.1	Ca_kabuli_chr04	44524752	TT	AA	1946831025
SNP_P4_63243_44524884	NC_021163.1	Ca_kabuli_chr04	44524884	CC	TT	1946831027
SNP_P4_63248_44529321	NC_021163.1	Ca_kabuli_chr04	44529321	TT	GG	1946831029
SNP_P4_63249_44529420	NC_021163.1	Ca_kabuli_chr04	44529420	TT	AA	1946831031
SNP_P4_63250_44529441	NC_021163.1	Ca_kabuli_chr04	44529441	CC	TT	1946831034
SNP_P4_63251_44530549	NC_021163.1	Ca_kabuli_chr04	44530549	TT	AA	1946831036
SNP_P4_63252_44532061	NC_021163.1	Ca_kabuli_chr04	44532061	AA	CC	1946831038
SNP_P4_63253_44532293	NC_021163.1	Ca_kabuli_chr04	44532293	CC	TT	1946831040
SNP_P4_63255_44540221	NC_021163.1	Ca_kabuli_chr04	44540221	CC	GG	1946831042
SNP_P4_63256_44540573	NC_021163.1	Ca_kabuli_chr04	44540573	GG	TT	1946831044
SNP_P4_63257_44540593	NC_021163.1	Ca_kabuli_chr04	44540593	CC	TT	1946831046
SNP_P4_63260_44540838	NC_021163.1	Ca_kabuli_chr04	44540838	TT	CC	1946831048
SNP_P4_63261_44541586	NC_021163.1	Ca_kabuli_chr04	44541586	CC	TT	1946831050
SNP_P4_63262_44542339	NC_021163.1	Ca_kabuli_chr04	44542339	GG	AA	1946831052
SNP_P4_63263_44543486	NC_021163.1	Ca_kabuli_chr04	44543486	TT	CC	1946831054
SNP_P4_63264_44543487	NC_021163.1	Ca_kabuli_chr04	44543487	GG	CC	1946831056
SNP_P4_63265_44543510	NC_021163.1	Ca_kabuli_chr04	44543510	AA	GG	1946831059
SNP_P4_63266_44543548	NC_021163.1	Ca_kabuli_chr04	44543548	CC	TT	1946831061
SNP_P4_63267_44543555	NC_021163.1	Ca_kabuli_chr04	44543555	GG	TT	1946831063
SNP_P4_63268_44543595	NC_021163.1	Ca_kabuli_chr04	44543595	TT	AA	1946831065
SNP_P4_63269_44543658	NC_021163.1	Ca_kabuli_chr04	44543658	CC	TT	1946831067
SNP_P4_63270_44543721	NC_021163.1	Ca_kabuli_chr04	44543721	GG	AA	1946831069
SNP_P4_63271_44543761	NC_021163.1	Ca_kabuli_chr04	44543761	TT	AA	1946831072
SNP_P4_63272_44543821	NC_021163.1	Ca_kabuli_chr04	44543821	CC	TT	1946831074
SNP_P4_63273_44543828	NC_021163.1	Ca_kabuli_chr04	44543828	CC	TT	1946831076
SNP_P4_63274_44543851	NC_021163.1	Ca_kabuli_chr04	44543851	CC	AA	1946831078
SNP_P4_63275_44543889	NC_021163.1	Ca_kabuli_chr04	44543889	TT	CC	1946831079
SNP_P4_63276_44543890	NC_021163.1	Ca_kabuli_chr04	44543890	AA	GG	1946831081
SNP_P4_63277_44543916	NC_021163.1	Ca_kabuli_chr04	44543916	AA	CC	1946831083
SNP_P4_63278_44543924	NC_021163.1	Ca_kabuli_chr04	44543924	GG	AA	1946831085
SNP_P4_63279_44543962	NC_021163.1	Ca_kabuli_chr04	44543962	AA	GG	1946831087
SNP_P4_63280_44543998	NC_021163.1	Ca_kabuli_chr04	44543998	GG	AA	1946831089
SNP_P4_63281_44544651	NC_021163.1	Ca_kabuli_chr04	44544651	AA	TT	1946831091
SNP_P4_63282_44544652	NC_021163.1	Ca_kabuli_chr04	44544652	AA	TT	1946831093
SNP_P4_63283_44544653	NC_021163.1	Ca_kabuli_chr04	44544653	AA	TT	1946831095

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_63285_44545089	NC_021163.1	Ca_kabuli_chr04	44545089	TT	CC	1946831099
SNP_P4_63286_44545133	NC_021163.1	Ca_kabuli_chr04	44545133	GG	AA	1946831101
SNP_P4_63288_44545268	NC_021163.1	Ca_kabuli_chr04	44545268	TT	GG	1946831103
SNP_P4_63289_44545287	NC_021163.1	Ca_kabuli_chr04	44545287	TT	CC	1946831105
SNP_P4_63290_44546482	NC_021163.1	Ca_kabuli_chr04	44546482	GG	AA	1946831107
SNP_P4_63291_44548226	NC_021163.1	Ca_kabuli_chr04	44548226	GG	AA	1946831109
SNP_P4_63292_44549460	NC_021163.1	Ca_kabuli_chr04	44549460	TT	GG	1946831111
SNP_P4_63293_44549504	NC_021163.1	Ca_kabuli_chr04	44549504	TT	AA	1946831113
SNP_P4_63294_44549647	NC_021163.1	Ca_kabuli_chr04	44549647	GG	AA	1946831114
SNP_P4_63295_44549747	NC_021163.1	Ca_kabuli_chr04	44549747	CC	TT	1946831116
SNP_P4_63296_44549751	NC_021163.1	Ca_kabuli_chr04	44549751	AA	GG	1946831119
SNP_P4_63297_44549857	NC_021163.1	Ca_kabuli_chr04	44549857	AA	TT	1946831120
SNP_P4_63298_44549873	NC_021163.1	Ca_kabuli_chr04	44549873	GG	TT	1946831122
SNP_P4_63299_44549889	NC_021163.1	Ca_kabuli_chr04	44549889	AA	CC	1946831125
SNP_P4_63300_44549921	NC_021163.1	Ca_kabuli_chr04	44549921	TT	AA	1946831126
SNP_P4_63301_44550135	NC_021163.1	Ca_kabuli_chr04	44550135	TT	CC	1946831128
SNP_P4_63302_44550168	NC_021163.1	Ca_kabuli_chr04	44550168	CC	AA	1946831130
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SNP_P4_63304_44550242	NC_021163.1	Ca_kabuli_chr04	44550242	TT	CC	1946831134
SNP_P4_63305_44550720	NC_021163.1	Ca_kabuli_chr04	44550720	AA	GG	1946831136
SNP_P4_63306_44550920	NC_021163.1	Ca_kabuli_chr04	44550920	GG	TT	1946831138
SNP_P4_63307_44550985	NC_021163.1	Ca_kabuli_chr04	44550985	GG	TT	1946831140
SNP_P4_63308_44551042	NC_021163.1	Ca_kabuli_chr04	44551042	CC	AA	1946831142
SNP_P4_63309_44551046	NC_021163.1	Ca_kabuli_chr04	44551046	TT	AA	1946831144
SNP_P4_63310_44551063	NC_021163.1	Ca_kabuli_chr04	44551063	AA	GG	1946831146
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SNP_P4_63312_44552027	NC_021163.1	Ca_kabuli_chr04	44552027	CC	TT	1946831150
SNP_P4_63313_44554175	NC_021163.1	Ca_kabuli_chr04	44554175	CC	GG	1946831152
SNP_P4_63314_44554215	NC_021163.1	Ca_kabuli_chr04	44554215	TT	CC	1946831154
SNP_P4_63315_44554268	NC_021163.1	Ca_kabuli_chr04	44554268	CC	TT	1946831156
SNP_P4_63316_44554270	NC_021163.1	Ca_kabuli_chr04	44554270	TT	GG	1946831158
SNP_P4_63317_44554271	NC_021163.1	Ca_kabuli_chr04	44554271	AA	GG	1946831160
SNP_P4_63319_44555472	NC_021163.1	Ca_kabuli_chr04	44555472	TT	CC	1946831162
SNP_P4_63320_44555604	NC_021163.1	Ca_kabuli_chr04	44555604	AA	TT	1946831164
SNP_P4_63322_44556590	NC_021163.1	Ca_kabuli_chr04	44556590	AA	TT	1946831165
SNP_P4_63323_44557967	NC_021163.1	Ca_kabuli_chr04	44557967	CC	AA	1946831167
SNP_P4_63324_44558756	NC_021163.1	Ca_kabuli_chr04	44558756	GG	AA	1946831169
SNP_P4_63325_44559025	NC_021163.1	Ca_kabuli_chr04	44559025	TT	CC	1946831171
SNP_P4_63326_44559695	NC_021163.1	Ca_kabuli_chr04	44559695	TT	GG	1946831173
SNP_P4_63327_44559697	NC_021163.1	Ca_kabuli_chr04	44559697	CC	TT	1946831175
SNP_P4_63328_44560410	NC_021163.1	Ca_kabuli_chr04	44560410	CC	TT	1946831177

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_63330_44560742	NC_021163.1	Ca_kabuli_chr04	44560742	GG	AA	1946831181
SNP_P4_63331_44560829	NC_021163.1	Ca_kabuli_chr04	44560829	AA	TT	1946831184
SNP_P4_63332_44561247	NC_021163.1	Ca_kabuli_chr04	44561247	GG	CC	1946831186
SNP_P4_63334_44561295	NC_021163.1	Ca_kabuli_chr04	44561295	AA	GG	1946831188
SNP_P4_63335_44561296	NC_021163.1	Ca_kabuli_chr04	44561296	TT	AA	1946831190
SNP_P4_63336_44561347	NC_021163.1	Ca_kabuli_chr04	44561347	TT	AA	1946831192
SNP_P4_63337_44561676	NC_021163.1	Ca_kabuli_chr04	44561676	CC	TT	1946831194
SNP_P4_63338_44561678	NC_021163.1	Ca_kabuli_chr04	44561678	TT	CC	1946831196
SNP_P4_63339_44561959	NC_021163.1	Ca_kabuli_chr04	44561959	TT	CC	1946831198
SNP_P4_63340_44562213	NC_021163.1	Ca_kabuli_chr04	44562213	TT	CC	1946831200
SNP_P4_63341_44563193	NC_021163.1	Ca_kabuli_chr04	44563193	TT	CC	1946831202
SNP_P4_63342_44563477	NC_021163.1	Ca_kabuli_chr04	44563477	GG	AA	1946831204
SNP_P4_63343_44563479	NC_021163.1	Ca_kabuli_chr04	44563479	CC	AA	1946831206
SNP_P4_63345_44563558	NC_021163.1	Ca_kabuli_chr04	44563558	TT	GG	1946831208
SNP_P4_63346_44563681	NC_021163.1	Ca_kabuli_chr04	44563681	TT	GG	1946831210
SNP_P4_63347_44563818	NC_021163.1	Ca_kabuli_chr04	44563818	GG	AA	1946831212
SNP_P4_63348_44565469	NC_021163.1	Ca_kabuli_chr04	44565469	TT	CC	1946831215
SNP_P4_63349_44565488	NC_021163.1	Ca_kabuli_chr04	44565488	AA	TT	1946831217
SNP_P4_63350_44565491	NC_021163.1	Ca_kabuli_chr04	44565491	AA	GG	1946831219
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SNP_P4_63352_44566415	NC_021163.1	Ca_kabuli_chr04	44566415	TT	AA	1946831223
SNP_P4_63353_44566642	NC_021163.1	Ca_kabuli_chr04	44566642	CC	TT	1946831225
SNP_P4_63354_44566976	NC_021163.1	Ca_kabuli_chr04	44566976	AA	TT	1946831227
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SNP_P4_63358_44567229	NC_021163.1	Ca_kabuli_chr04	44567229	TT	AA	1946831235
SNP_P4_63359_44567232	NC_021163.1	Ca_kabuli_chr04	44567232	TT	CC	1946831237
SNP_P4_63360_44567465	NC_021163.1	Ca_kabuli_chr04	44567465	TT	AA	1946831239
SNP_P4_63361_44567753	NC_021163.1	Ca_kabuli_chr04	44567753	CC	TT	1946831241
SNP_P4_63362_44567804	NC_021163.1	Ca_kabuli_chr04	44567804	AA	GG	1946831243
SNP_P4_63364_44569586	NC_021163.1	Ca_kabuli_chr04	44569586	TT	AA	1946831245
SNP_P4_63365_44570054	NC_021163.1	Ca_kabuli_chr04	44570054	TT	AA	1946831247
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SNP_P4_63367_44570902	NC_021163.1	Ca_kabuli_chr04	44570902	GG	TT	1946831251
SNP_P4_63368_44570969	NC_021163.1	Ca_kabuli_chr04	44570969	CC	TT	1946831253
SNP_P4_63369_44571061	NC_021163.1	Ca_kabuli_chr04	44571061	GG	TT	1946831255
SNP_P4_63370_44572458	NC_021163.1	Ca_kabuli_chr04	44572458	AA	CC	1946831257
SNP_P4_63371_44577913	NC_021163.1	Ca_kabuli_chr04	44577913	AA	GG	1946831259
SNP_P4_63372_44578259	NC_021163.1	Ca_kabuli_chr04	44578259	TT	CC	1946831261
SNP_P4_63373_44578275	NC_021163.1	Ca_kabuli_chr04	44578275	TT	CC	1946831263

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_63376_44578778	NC_021163.1	Ca_kabuli_chr04	44578778	AA	TT	1946831267
SNP_P4_63377_44579150	NC_021163.1	Ca_kabuli_chr04	44579150	CC	AA	1946831269
SNP_P4_63378_44579429	NC_021163.1	Ca_kabuli_chr04	44579429	AA	GG	1946831271
SNP_P4_63380_44581081	NC_021163.1	Ca_kabuli_chr04	44581081	CC	GG	1946831273
SNP_P4_63381_44581087	NC_021163.1	Ca_kabuli_chr04	44581087	AA	GG	1946831275
SNP_P4_63382_44581146	NC_021163.1	Ca_kabuli_chr04	44581146	GG	AA	1946831277
SNP_P4_63383_44581541	NC_021163.1	Ca_kabuli_chr04	44581541	TT	AA	1946831279
SNP_P4_63384_44581845	NC_021163.1	Ca_kabuli_chr04	44581845	TT	CC	1946831281
SNP_P4_63385_44582088	NC_021163.1	Ca_kabuli_chr04	44582088	AA	GG	1946831283
SNP_P4_63386_44582471	NC_021163.1	Ca_kabuli_chr04	44582471	CC	AA	1946831285
SNP_P4_63388_44583733	NC_021163.1	Ca_kabuli_chr04	44583733	CC	TT	1946831287
SNP_P4_63389_44583741	NC_021163.1	Ca_kabuli_chr04	44583741	GG	AA	1946831289
SNP_P4_63390_44583743	NC_021163.1	Ca_kabuli_chr04	44583743	GG	TT	1946831291
SNP_P4_63391_44583803	NC_021163.1	Ca_kabuli_chr04	44583803	CC	TT	1946831293
SNP_P4_63392_44583811	NC_021163.1	Ca_kabuli_chr04	44583811	GG	AA	1946831295
SNP_P4_63393_44584465	NC_021163.1	Ca_kabuli_chr04	44584465	GG	AA	1946831297
SNP_P4_63394_44584484	NC_021163.1	Ca_kabuli_chr04	44584484	CC	TT	1946831299
SNP_P4_63395_44585314	NC_021163.1	Ca_kabuli_chr04	44585314	AA	GG	1946831301
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SNP_P4_63397_44585327	NC_021163.1	Ca_kabuli_chr04	44585327	CC	TT	1946831305
SNP_P4_63398_44585595	NC_021163.1	Ca_kabuli_chr04	44585595	CC	TT	1946831307
SNP_P4_63400_44585922	NC_021163.1	Ca_kabuli_chr04	44585922	AA	GG	1946831309
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SNP_P4_63402_44586363	NC_021163.1	Ca_kabuli_chr04	44586363	CC	TT	1946831313
SNP_P4_63403_44587929	NC_021163.1	Ca_kabuli_chr04	44587929	TT	AA	1946831315
SNP_P4_63404_44592359	NC_021163.1	Ca_kabuli_chr04	44592359	AA	TT	1946831318
SNP_P4_63405_44592360	NC_021163.1	Ca_kabuli_chr04	44592360	AA	TT	1946831320
SNP_P4_63407_44594739	NC_021163.1	Ca_kabuli_chr04	44594739	AA	GG	1946831322
SNP_P4_63408_44594819	NC_021163.1	Ca_kabuli_chr04	44594819	GG	AA	1946831324
SNP_P4_63409_44594853	NC_021163.1	Ca_kabuli_chr04	44594853	GG	AA	1946831326
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SNP_P4_63411_44594876	NC_021163.1	Ca_kabuli_chr04	44594876	AA	GG	1946831330
SNP_P4_63412_44594893	NC_021163.1	Ca_kabuli_chr04	44594893	TT	CC	1946831332
SNP_P4_63413_44594914	NC_021163.1	Ca_kabuli_chr04	44594914	GG	AA	1946831334
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SNP_P4_63415_44594968	NC_021163.1	Ca_kabuli_chr04	44594968	GG	AA	1946831338
SNP_P4_63416_44594976	NC_021163.1	Ca_kabuli_chr04	44594976	TT	CC	1946831340
SNP_P4_63417_44595210	NC_021163.1	Ca_kabuli_chr04	44595210	TT	CC	1946831342
SNP_P4_63418_44595420	NC_021163.1	Ca_kabuli_chr04	44595420	AA	TT	1946831344
SNP_P4_63419_44598809	NC_021163.1	Ca_kabuli_chr04	44598809	AA	GG	1946831346
SNP_P4_63420_44598882	NC_021163.1	Ca_kabuli_chr04	44598882	TT	GG	1946831348

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_63423_44599529	NC_021163.1	Ca_kabuli_chr04	44599529	TT	AA	1946831354
SNP_P4_63424_44600218	NC_021163.1	Ca_kabuli_chr04	44600218	TT	AA	1946831356
SNP_P4_63425_44600244	NC_021163.1	Ca_kabuli_chr04	44600244	GG	AA	1946831358
SNP_P4_63426_44600567	NC_021163.1	Ca_kabuli_chr04	44600567	TT	CC	1946831360
SNP_P4_63427_44601334	NC_021163.1	Ca_kabuli_chr04	44601334	TT	CC	1946831362
SNP_P4_63428_44601481	NC_021163.1	Ca_kabuli_chr04	44601481	GG	AA	1946831364
SNP_P4_63429_44601531	NC_021163.1	Ca_kabuli_chr04	44601531	TT	GG	1946831367
SNP_P4_63430_44601544	NC_021163.1	Ca_kabuli_chr04	44601544	CC	TT	1946831369
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SNP_P4_63436_44602460	NC_021163.1	Ca_kabuli_chr04	44602460	GG	AA	1946831380
SNP_P4_63438_44603335	NC_021163.1	Ca_kabuli_chr04	44603335	TT	CC	1946831382
SNP_P4_63439_44603479	NC_021163.1	Ca_kabuli_chr04	44603479	GG	TT	1946831384
SNP_P4_63440_44603525	NC_021163.1	Ca_kabuli_chr04	44603525	GG	TT	1946831387
SNP_P4_63441_44603527	NC_021163.1	Ca_kabuli_chr04	44603527	CC	TT	1946831389
SNP_P4_63442_44603538	NC_021163.1	Ca_kabuli_chr04	44603538	AA	GG	1946831391
SNP_P4_63443_44603554	NC_021163.1	Ca_kabuli_chr04	44603554	AA	GG	1946831393
SNP_P4_63444_44603559	NC_021163.1	Ca_kabuli_chr04	44603559	GG	AA	1946831395
SNP_P4_63445_44603564	NC_021163.1	Ca_kabuli_chr04	44603564	GG	TT	1946831397
SNP_P4_63446_44606993	NC_021163.1	Ca_kabuli_chr04	44606993	TT	CC	1946831399
SNP_P4_63448_44607024	NC_021163.1	Ca_kabuli_chr04	44607024	AA	GG	1946831401
SNP_P4_63450_44607308	NC_021163.1	Ca_kabuli_chr04	44607308	AA	GG	1946831403
SNP_P4_63451_44607445	NC_021163.1	Ca_kabuli_chr04	44607445	GG	AA	1946831405
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SNP_P4_63455_44607891	NC_021163.1	Ca_kabuli_chr04	44607891	GG	AA	1946831412
SNP_P4_63456_44608847	NC_021163.1	Ca_kabuli_chr04	44608847	TT	CC	1946831413
SNP_P4_63457_44608888	NC_021163.1	Ca_kabuli_chr04	44608888	AA	GG	1946831414
SNP_P4_63458_44608892	NC_021163.1	Ca_kabuli_chr04	44608892	AA	TT	1946831416
SNP_P4_63459_44608895	NC_021163.1	Ca_kabuli_chr04	44608895	TT	CC	1946831418
SNP_P4_63460_44609998	NC_021163.1	Ca_kabuli_chr04	44609998	CC	TT	1946831420
SNP_P4_63461_44610000	NC_021163.1	Ca_kabuli_chr04	44610000	CC	AA	1946831422
SNP_P4_63462_44610002	NC_021163.1	Ca_kabuli_chr04	44610002	AA	GG	1946831424
SNP_P4_63463_44610149	NC_021163.1	Ca_kabuli_chr04	44610149	AA	CC	1946831426
SNP_P4_63464_44610176	NC_021163.1	Ca_kabuli_chr04	44610176	GG	AA	1946831428
SNP_P4_63465_44611490	NC_021163.1	Ca_kabuli_chr04	44611490	GG	AA	1946831430
SNP_P4_63467_44611734	NC_021163.1	Ca_kabuli_chr04	44611734	AA	GG	1946831432

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_63468_44611769	NC_021163.1	Ca_kabuli_chr04	44611769	TT	CC	1946831434
SNP_P4_63469_44611774	NC_021163.1	Ca_kabuli_chr04	44611774	CC	AA	1946831436
SNP_P4_63470_44612036	NC_021163.1	Ca_kabuli_chr04	44612036	CC	TT	1946831438
SNP_P4_63471_44612042	NC_021163.1	Ca_kabuli_chr04	44612042	TT	CC	1946831440
SNP_P4_63472_44612048	NC_021163.1	Ca_kabuli_chr04	44612048	TT	CC	1946831442
SNP_P4_63473_44612818	NC_021163.1	Ca_kabuli_chr04	44612818	CC	TT	1946831444
SNP_P4_63474_44612850	NC_021163.1	Ca_kabuli_chr04	44612850	TT	CC	1946831446
SNP_P4_63475_44612969	NC_021163.1	Ca_kabuli_chr04	44612969	TT	AA	1946831448
SNP_P4_63476_44613041	NC_021163.1	Ca_kabuli_chr04	44613041	AA	TT	1946831450
SNP_P4_63477_44613047	NC_021163.1	Ca_kabuli_chr04	44613047	AA	GG	1946831452
SNP_P4_63479_44613538	NC_021163.1	Ca_kabuli_chr04	44613538	AA	CC	1946831454
SNP_P4_63480_44613638	NC_021163.1	Ca_kabuli_chr04	44613638	CC	TT	1946831456
SNP_P4_63482_44614112	NC_021163.1	Ca_kabuli_chr04	44614112	AA	CC	1946831458
SNP_P4_63483_44617540	NC_021163.1	Ca_kabuli_chr04	44617540	CC	TT	1946831460
SNP_P4_63484_44617800	NC_021163.1	Ca_kabuli_chr04	44617800	AA	GG	1946831462
SNP_P4_63485_44621446	NC_021163.1	Ca_kabuli_chr04	44621446	AA	GG	1946831464
SNP_P4_63486_44621455	NC_021163.1	Ca_kabuli_chr04	44621455	CC	TT	1946831466
SNP_P4_63487_44622369	NC_021163.1	Ca_kabuli_chr04	44622369	AA	TT	1946831468
SNP_P4_63489_44622659	NC_021163.1	Ca_kabuli_chr04	44622659	TT	AA	1946831470
SNP_P4_63490_44624585	NC_021163.1	Ca_kabuli_chr04	44624585	CC	TT	1946831472
SNP_P4_63491_44625355	NC_021163.1	Ca_kabuli_chr04	44625355	GG	AA	1946831474
SNP_P4_63493_44625711	NC_021163.1	Ca_kabuli_chr04	44625711	TT	CC	1946831476
SNP_P4_63494_44626034	NC_021163.1	Ca_kabuli_chr04	44626034	TT	GG	1946831478
SNP_P4_63495_44626645	NC_021163.1	Ca_kabuli_chr04	44626645	CC	AA	1946831480
SNP_P4_63496_44626753	NC_021163.1	Ca_kabuli_chr04	44626753	TT	CC	1946831481
SNP_P4_63497_44626770	NC_021163.1	Ca_kabuli_chr04	44626770	TT	GG	1946831483
SNP_P4_63498_44628790	NC_021163.1	Ca_kabuli_chr04	44628790	AA	CC	1946831485
SNP_P4_63499_44629671	NC_021163.1	Ca_kabuli_chr04	44629671	TT	AA	1946831487
SNP_P4_63500_44629735	NC_021163.1	Ca_kabuli_chr04	44629735	TT	CC	1946831489
SNP_P4_63501_44629859	NC_021163.1	Ca_kabuli_chr04	44629859	CC	TT	1946831492
SNP_P4_63503_44629938	NC_021163.1	Ca_kabuli_chr04	44629938	CC	AA	1946831494
SNP_P4_63504_44630021	NC_021163.1	Ca_kabuli_chr04	44630021	TT	CC	1946831496
SNP_P4_63505_44630819	NC_021163.1	Ca_kabuli_chr04	44630819	CC	TT	1946831498
SNP_P4_63506_44631098	NC_021163.1	Ca_kabuli_chr04	44631098	TT	AA	1946831500
SNP_P4_63507_44631119	NC_021163.1	Ca_kabuli_chr04	44631119	GG	CC	1946831502
SNP_P4_63508_44631142	NC_021163.1	Ca_kabuli_chr04	44631142	TT	CC	1946831504
SNP_P4_63510_44631207	NC_021163.1	Ca_kabuli_chr04	44631207	CC	AA	1946831506
SNP_P4_63511_44631474	NC_021163.1	Ca_kabuli_chr04	44631474	TT	CC	1946831508
SNP_P4_63514_44632477	NC_021163.1	Ca_kabuli_chr04	44632477	GG	AA	1946831510
SNP_P4_63515_44632513	NC_021163.1	Ca_kabuli_chr04	44632513	AA	GG	1946831512
SNP_P4_63516_44632525	NC_021163.1	Ca_kabuli_chr04	44632525	AA	CC	1946831514
SNP_P4_63517_44632574	NC_021163.1	Ca_kabuli_chr04	44632574	TT	CC	1946831516

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_63520_44632847	NC_021163.1	Ca_kabuli_chr04	44632847	AA	CC	1946831520
SNP_P4_63521_44632900	NC_021163.1	Ca_kabuli_chr04	44632900	CC	AA	1946831522
SNP_P4_63522_44632917	NC_021163.1	Ca_kabuli_chr04	44632917	TT	CC	1946831524
SNP_P4_63523_44632928	NC_021163.1	Ca_kabuli_chr04	44632928	GG	AA	1946831526
SNP_P4_63524_44632930	NC_021163.1	Ca_kabuli_chr04	44632930	CC	AA	1946831528
SNP_P4_63525_44632934	NC_021163.1	Ca_kabuli_chr04	44632934	GG	AA	1946831530
SNP_P4_63526_44633091	NC_021163.1	Ca_kabuli_chr04	44633091	AA	GG	1946831532
SNP_P4_63527_44633115	NC_021163.1	Ca_kabuli_chr04	44633115	GG	AA	1946831534
SNP_P4_63528_44633128	NC_021163.1	Ca_kabuli_chr04	44633128	GG	AA	1946831536
SNP_P4_63529_44633551	NC_021163.1	Ca_kabuli_chr04	44633551	GG	AA	1946831538
SNP_P4_63530_44633583	NC_021163.1	Ca_kabuli_chr04	44633583	GG	TT	1946831540
SNP_P4_63532_44634148	NC_021163.1	Ca_kabuli_chr04	44634148	GG	AA	1946831542
SNP_P4_63533_44634170	NC_021163.1	Ca_kabuli_chr04	44634170	AA	CC	1946831544
SNP_P4_63534_44634454	NC_021163.1	Ca_kabuli_chr04	44634454	TT	CC	1946831546
SNP_P4_63535_44634517	NC_021163.1	Ca_kabuli_chr04	44634517	AA	GG	1946831548
SNP_P4_63536_44634703	NC_021163.1	Ca_kabuli_chr04	44634703	GG	AA	1946831550
SNP_P4_63537_44636817	NC_021163.1	Ca_kabuli_chr04	44636817	AA	GG	1946831552
SNP_P4_63538_44637064	NC_021163.1	Ca_kabuli_chr04	44637064	AA	CC	1946831554
SNP_P4_63539_44637079	NC_021163.1	Ca_kabuli_chr04	44637079	CC	AA	1946831556
SNP_P4_63540_44637472	NC_021163.1	Ca_kabuli_chr04	44637472	TT	AA	1946831558
SNP_P4_63541_44637743	NC_021163.1	Ca_kabuli_chr04	44637743	TT	CC	1946831560
SNP_P4_63543_44638490	NC_021163.1	Ca_kabuli_chr04	44638490	CC	GG	1946831562
SNP_P4_63544_44640128	NC_021163.1	Ca_kabuli_chr04	44640128	CC	TT	1946831564
SNP_P4_63545_44640145	NC_021163.1	Ca_kabuli_chr04	44640145	CC	TT	1946831567
SNP_P4_63546_44640148	NC_021163.1	Ca_kabuli_chr04	44640148	CC	TT	1946831569
SNP_P4_63547_44640208	NC_021163.1	Ca_kabuli_chr04	44640208	TT	CC	1946831572
SNP_P4_63548_44640224	NC_021163.1	Ca_kabuli_chr04	44640224	AA	GG	1946831574
SNP_P4_63549_44640353	NC_021163.1	Ca_kabuli_chr04	44640353	GG	CC	1946831576
SNP_P4_63550_44640493	NC_021163.1	Ca_kabuli_chr04	44640493	TT	CC	1946831578
SNP_P4_63551_44640526	NC_021163.1	Ca_kabuli_chr04	44640526	GG	CC	1946831580
SNP_P4_63552_44642882	NC_021163.1	Ca_kabuli_chr04	44642882	AA	GG	1946831582
SNP_P4_63553_44642968	NC_021163.1	Ca_kabuli_chr04	44642968	AA	GG	1946831584
SNP_P4_63554_44643284	NC_021163.1	Ca_kabuli_chr04	44643284	CC	TT	1946831586
SNP_P4_63555_44643312	NC_021163.1	Ca_kabuli_chr04	44643312	CC	AA	1946831588
SNP_P4_63556_44646567	NC_021163.1	Ca_kabuli_chr04	44646567	CC	GG	1946831590
SNP_P4_63559_44657709	NC_021163.1	Ca_kabuli_chr04	44657709	AA	GG	1946831592
SNP_P4_63560_44658408	NC_021163.1	Ca_kabuli_chr04	44658408	TT	GG	1946831594
SNP_P4_63561_44658456	NC_021163.1	Ca_kabuli_chr04	44658456	CC	TT	1946831596
SNP_P4_63562_44658474	NC_021163.1	Ca_kabuli_chr04	44658474	CC	TT	1946831599
SNP_P4_63564_44660953	NC_021163.1	Ca_kabuli_chr04	44660953	AA	TT	1946831601
SNP_P4_63566_44661044	NC_021163.1	Ca_kabuli_chr04	44661044	CC	TT	1946831603

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_63570_44661797	NC_021163.1	Ca_kabuli_chr04	44661797	AA	GG	1946831609
SNP_P4_63571_44661811	NC_021163.1	Ca_kabuli_chr04	44661811	TT	CC	1946831611
SNP_P4_63572_44662108	NC_021163.1	Ca_kabuli_chr04	44662108	TT	CC	1946831613
SNP_P4_63573_44662424	NC_021163.1	Ca_kabuli_chr04	44662424	CC	TT	1946831615
SNP_P4_63576_44663135	NC_021163.1	Ca_kabuli_chr04	44663135	TT	GG	1946831617
SNP_P4_63577_44663203	NC_021163.1	Ca_kabuli_chr04	44663203	CC	GG	1946831619
SNP_P4_63578_44663209	NC_021163.1	Ca_kabuli_chr04	44663209	AA	CC	1946831621
SNP_P4_63579_44663214	NC_021163.1	Ca_kabuli_chr04	44663214	TT	CC	1946831623
SNP_P4_63580_44663229	NC_021163.1	Ca_kabuli_chr04	44663229	AA	GG	1946831625
SNP_P4_63582_44665762	NC_021163.1	Ca_kabuli_chr04	44665762	CC	GG	1946831627
SNP_P4_63583_44665811	NC_021163.1	Ca_kabuli_chr04	44665811	GG	AA	1946831629
SNP_P4_63584_44666849	NC_021163.1	Ca_kabuli_chr04	44666849	AA	GG	1946831631
SNP_P4_63585_44666868	NC_021163.1	Ca_kabuli_chr04	44666868	AA	GG	1946831633
SNP_P4_63586_44666871	NC_021163.1	Ca_kabuli_chr04	44666871	AA	GG	1946831635
SNP_P4_63587_44666952	NC_021163.1	Ca_kabuli_chr04	44666952	AA	GG	1946831637
SNP_P4_63588_44666967	NC_021163.1	Ca_kabuli_chr04	44666967	CC	TT	1946831639
SNP_P4_63589_44667584	NC_021163.1	Ca_kabuli_chr04	44667584	AA	TT	1946831641
SNP_P4_63590_44668030	NC_021163.1	Ca_kabuli_chr04	44668030	GG	AA	1946831643
SNP_P4_63591_44668052	NC_021163.1	Ca_kabuli_chr04	44668052	TT	CC	1946831645
SNP_P4_63592_44668098	NC_021163.1	Ca_kabuli_chr04	44668098	CC	AA	1946831647
SNP_P4_63593_44668722	NC_021163.1	Ca_kabuli_chr04	44668722	AA	TT	1946831649
SNP_P4_63594_44668800	NC_021163.1	Ca_kabuli_chr04	44668800	GG	CC	1946831651
SNP_P4_63597_44670088	NC_021163.1	Ca_kabuli_chr04	44670088	GG	AA	1946831653
SNP_P4_63598_44670976	NC_021163.1	Ca_kabuli_chr04	44670976	GG	TT	1946831655
SNP_P4_63599_44671177	NC_021163.1	Ca_kabuli_chr04	44671177	AA	GG	1946831657
SNP_P4_63600_44671215	NC_021163.1	Ca_kabuli_chr04	44671215	GG	CC	1946831659
SNP_P4_63601_44672809	NC_021163.1	Ca_kabuli_chr04	44672809	GG	TT	1946831661
SNP_P4_63602_44672812	NC_021163.1	Ca_kabuli_chr04	44672812	GG	TT	1946831663
SNP_P4_63603_44672817	NC_021163.1	Ca_kabuli_chr04	44672817	GG	AA	1946831665
SNP_P4_63604_44672922	NC_021163.1	Ca_kabuli_chr04	44672922	AA	GG	1946831667
SNP_P4_63605_44673159	NC_021163.1	Ca_kabuli_chr04	44673159	GG	AA	1946831669
SNP_P4_63606_44673680	NC_021163.1	Ca_kabuli_chr04	44673680	CC	TT	1946831671
SNP_P4_63607_44673711	NC_021163.1	Ca_kabuli_chr04	44673711	AA	GG	1946831673
SNP_P4_63608_44673712	NC_021163.1	Ca_kabuli_chr04	44673712	AA	TT	1946831675
SNP_P4_63609_44673719	NC_021163.1	Ca_kabuli_chr04	44673719	GG	AA	1946831677
SNP_P4_63610_44673746	NC_021163.1	Ca_kabuli_chr04	44673746	GG	TT	1946831679
SNP_P4_63611_44673780	NC_021163.1	Ca_kabuli_chr04	44673780	AA	GG	1946831681
SNP_P4_63612_44673949	NC_021163.1	Ca_kabuli_chr04	44673949	GG	AA	1946831683
SNP_P4_63613_44674043	NC_021163.1	Ca_kabuli_chr04	44674043	GG	TT	1946831685
SNP_P4_63615_44675447	NC_021163.1	Ca_kabuli_chr04	44675447	GG	AA	1946831688

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_63618_44677660	NC_021163.1	Ca_kabuli_chr04	44677660	TT	CC	1946831694
SNP_P4_63619_44677968	NC_021163.1	Ca_kabuli_chr04	44677968	GG	AA	1946831696
SNP_P4_63620_44678033	NC_021163.1	Ca_kabuli_chr04	44678033	AA	GG	1946831698
SNP_P4_63621_44678205	NC_021163.1	Ca_kabuli_chr04	44678205	TT	CC	1946831700
SNP_P4_63622_44678213	NC_021163.1	Ca_kabuli_chr04	44678213	TT	CC	1946831702
SNP_P4_63623_44678224	NC_021163.1	Ca_kabuli_chr04	44678224	GG	AA	1946831704
SNP_P4_63624_44678362	NC_021163.1	Ca_kabuli_chr04	44678362	AA	GG	1946831706
SNP_P4_63626_44678388	NC_021163.1	Ca_kabuli_chr04	44678388	TT	GG	1946831708
SNP_P4_63627_44678451	NC_021163.1	Ca_kabuli_chr04	44678451	AA	GG	1946831710
SNP_P4_63628_44678462	NC_021163.1	Ca_kabuli_chr04	44678462	AA	GG	1946831712
SNP_P4_63629_44678471	NC_021163.1	Ca_kabuli_chr04	44678471	GG	AA	1946831714
SNP_P4_63630_44679044	NC_021163.1	Ca_kabuli_chr04	44679044	AA	TT	1946831716
SNP_P4_63631_44679210	NC_021163.1	Ca_kabuli_chr04	44679210	TT	AA	1946831718
SNP_P4_63632_44679287	NC_021163.1	Ca_kabuli_chr04	44679287	TT	AA	1946831720
SNP_P4_63633_44679328	NC_021163.1	Ca_kabuli_chr04	44679328	GG	CC	1946831722
SNP_P4_63636_44679493	NC_021163.1	Ca_kabuli_chr04	44679493	AA	TT	1946831724
SNP_P4_63637_44679505	NC_021163.1	Ca_kabuli_chr04	44679505	TT	AA	1946831726
SNP_P4_63638_44679514	NC_021163.1	Ca_kabuli_chr04	44679514	TT	GG	1946831728
SNP_P4_63639_44679651	NC_021163.1	Ca_kabuli_chr04	44679651	AA	GG	1946831730
SNP_P4_63640_44679670	NC_021163.1	Ca_kabuli_chr04	44679670	GG	AA	1946831732
SNP_P4_63641_44679743	NC_021163.1	Ca_kabuli_chr04	44679743	AA	GG	1946831735
SNP_P4_63643_44680847	NC_021163.1	Ca_kabuli_chr04	44680847	TT	CC	1946831736
SNP_P4_63644_44680873	NC_021163.1	Ca_kabuli_chr04	44680873	TT	CC	1946831739
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SNP_P4_63646_44680997	NC_021163.1	Ca_kabuli_chr04	44680997	AA	GG	1946831743
SNP_P4_63648_44681318	NC_021163.1	Ca_kabuli_chr04	44681318	CC	TT	1946831745
SNP_P4_63652_44683023	NC_021163.1	Ca_kabuli_chr04	44683023	AA	TT	1946831747
SNP_P4_63653_44683468	NC_021163.1	Ca_kabuli_chr04	44683468	TT	CC	1946831749
SNP_P4_63654_44685589	NC_021163.1	Ca_kabuli_chr04	44685589	TT	GG	1946831751
SNP_P4_63655_44685613	NC_021163.1	Ca_kabuli_chr04	44685613	TT	CC	1946831753
SNP_P4_63657_44685691	NC_021163.1	Ca_kabuli_chr04	44685691	GG	AA	1946831755
SNP_P4_63658_44685695	NC_021163.1	Ca_kabuli_chr04	44685695	TT	CC	1946831757
SNP_P4_63660_44685893	NC_021163.1	Ca_kabuli_chr04	44685893	GG	AA	1946831759
SNP_P4_63661_44686411	NC_021163.1	Ca_kabuli_chr04	44686411	GG	TT	1946831761
SNP_P4_63662_44686655	NC_021163.1	Ca_kabuli_chr04	44686655	AA	TT	1946831763
SNP_P4_63663_44687597	NC_021163.1	Ca_kabuli_chr04	44687597	CC	TT	1946831765
SNP_P4_63664_44687600	NC_021163.1	Ca_kabuli_chr04	44687600	AA	GG	1946831767
SNP_P4_63665_44687603	NC_021163.1	Ca_kabuli_chr04	44687603	TT	CC	1946831769
SNP_P4_63666_44687639	NC_021163.1	Ca_kabuli_chr04	44687639	TT	CC	1946831771
SNP_P4_63668_44688807	NC_021163.1	Ca_kabuli_chr04	44688807	GG	AA	1946831773

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_63670_44692304	NC_021163.1	Ca_kabuli_chr04	44692304	CC	TT	1946831778
SNP_P4_63671_44693810	NC_021163.1	Ca_kabuli_chr04	44693810	TT	AA	1946831780
SNP_P4_63672_44693840	NC_021163.1	Ca_kabuli_chr04	44693840	CC	GG	1946831781
SNP_P4_63674_44694130	NC_021163.1	Ca_kabuli_chr04	44694130	TT	CC	1946831783
SNP_P4_63675_44694154	NC_021163.1	Ca_kabuli_chr04	44694154	AA	CC	1946831785
SNP_P4_63676_44694166	NC_021163.1	Ca_kabuli_chr04	44694166	TT	AA	1946831787
SNP_P4_63677_44694436	NC_021163.1	Ca_kabuli_chr04	44694436	CC	TT	1946831789
SNP_P4_63678_44694493	NC_021163.1	Ca_kabuli_chr04	44694493	AA	TT	1946831791
SNP_P4_63679_44694498	NC_021163.1	Ca_kabuli_chr04	44694498	TT	AA	1946831794
SNP_P4_63680_44694508	NC_021163.1	Ca_kabuli_chr04	44694508	TT	AA	1946831796
SNP_P4_63681_44694555	NC_021163.1	Ca_kabuli_chr04	44694555	TT	AA	1946831798
SNP_P4_63682_44694586	NC_021163.1	Ca_kabuli_chr04	44694586	TT	GG	1946831800
SNP_P4_63683_44694600	NC_021163.1	Ca_kabuli_chr04	44694600	AA	TT	1946831802
SNP_P4_63684_44694601	NC_021163.1	Ca_kabuli_chr04	44694601	AA	GG	1946831804
SNP_P4_63687_44694695	NC_021163.1	Ca_kabuli_chr04	44694695	TT	GG	1946831806
SNP_P4_63688_44694745	NC_021163.1	Ca_kabuli_chr04	44694745	AA	TT	1946831808
SNP_P4_63689_44694750	NC_021163.1	Ca_kabuli_chr04	44694750	CC	AA	1946831810
SNP_P4_63690_44694751	NC_021163.1	Ca_kabuli_chr04	44694751	AA	TT	1946831812
SNP_P4_63691_44694795	NC_021163.1	Ca_kabuli_chr04	44694795	TT	GG	1946831814
SNP_P4_63692_44697986	NC_021163.1	Ca_kabuli_chr04	44697986	AA	GG	1946831816
SNP_P4_63693_44698217	NC_021163.1	Ca_kabuli_chr04	44698217	TT	GG	1946831818
SNP_P4_63694_44703763	NC_021163.1	Ca_kabuli_chr04	44703763	TT	CC	1946831820
SNP_P4_63695_44704117	NC_021163.1	Ca_kabuli_chr04	44704117	GG	AA	1946831822
SNP_P4_63696_44704154	NC_021163.1	Ca_kabuli_chr04	44704154	TT	AA	1946831824
SNP_P4_63697_44704366	NC_021163.1	Ca_kabuli_chr04	44704366	TT	CC	1946831826
SNP_P4_63698_44704524	NC_021163.1	Ca_kabuli_chr04	44704524	TT	GG	1946831828
SNP_P4_63700_44704754	NC_021163.1	Ca_kabuli_chr04	44704754	GG	CC	1946831830
SNP_P4_63701_44705096	NC_021163.1	Ca_kabuli_chr04	44705096	AA	CC	1946831832
SNP_P4_63703_44705170	NC_021163.1	Ca_kabuli_chr04	44705170	CC	TT	1946831833
SNP_P4_63704_44706422	NC_021163.1	Ca_kabuli_chr04	44706422	GG	AA	1946831834
SNP_P4_63706_44706645	NC_021163.1	Ca_kabuli_chr04	44706645	TT	AA	1946831835
SNP_P4_63708_44707080	NC_021163.1	Ca_kabuli_chr04	44707080	CC	AA	1946831836
SNP_P4_63709_44707119	NC_021163.1	Ca_kabuli_chr04	44707119	GG	AA	1946831837
SNP_P4_63710_44707328	NC_021163.1	Ca_kabuli_chr04	44707328	GG	TT	1946831838
SNP_P4_63712_44707499	NC_021163.1	Ca_kabuli_chr04	44707499	GG	TT	1946831841
SNP_P4_63713_44708222	NC_021163.1	Ca_kabuli_chr04	44708222	AA	TT	1946831843
SNP_P4_63715_44710215	NC_021163.1	Ca_kabuli_chr04	44710215	TT	CC	1946831845
SNP_P4_63716_44710227	NC_021163.1	Ca_kabuli_chr04	44710227	GG	AA	1946831847
SNP_P4_63718_44710346	NC_021163.1	Ca_kabuli_chr04	44710346	CC	TT	1946831849
SNP_P4_63719_44710420	NC_021163.1	Ca_kabuli_chr04	44710420	AA	CC	1946831851
SNP_P4_63721_44710537	NC_021163.1	Ca_kabuli_chr04	44710537	AA	GG	1946831853

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_63724_44710685	NC_021163.1	Ca_kabuli_chr04	44710685	CC	GG	1946831857
SNP_P4_63725_44711186	NC_021163.1	Ca_kabuli_chr04	44711186	CC	TT	1946831859
SNP_P4_63727_44711254	NC_021163.1	Ca_kabuli_chr04	44711254	CC	TT	1946831861
SNP_P4_63728_44712225	NC_021163.1	Ca_kabuli_chr04	44712225	GG	CC	1946831863
SNP_P4_63729_44712530	NC_021163.1	Ca_kabuli_chr04	44712530	TT	AA	1946831865
SNP_P4_63730_44713192	NC_021163.1	Ca_kabuli_chr04	44713192	CC	TT	1946831867
SNP_P4_63731_44713203	NC_021163.1	Ca_kabuli_chr04	44713203	TT	CC	1946831869
SNP_P4_63732_44713435	NC_021163.1	Ca_kabuli_chr04	44713435	CC	TT	1946831872
SNP_P4_63733_44713474	NC_021163.1	Ca_kabuli_chr04	44713474	TT	CC	1946831874
SNP_P4_63734_44713587	NC_021163.1	Ca_kabuli_chr04	44713587	CC	TT	1946831876
SNP_P4_63735_44713666	NC_021163.1	Ca_kabuli_chr04	44713666	CC	TT	1946831878
SNP_P4_63736_44714351	NC_021163.1	Ca_kabuli_chr04	44714351	AA	GG	1946831880
SNP_P4_63737_44714488	NC_021163.1	Ca_kabuli_chr04	44714488	AA	TT	1946831882
SNP_P4_63738_44714510	NC_021163.1	Ca_kabuli_chr04	44714510	TT	AA	1946831884
SNP_P4_63739_44714541	NC_021163.1	Ca_kabuli_chr04	44714541	GG	AA	1946831886
SNP_P4_63740_44714571	NC_021163.1	Ca_kabuli_chr04	44714571	AA	GG	1946831888
SNP_P4_63741_44714587	NC_021163.1	Ca_kabuli_chr04	44714587	AA	GG	1946831890
SNP_P4_63742_44714648	NC_021163.1	Ca_kabuli_chr04	44714648	AA	TT	1946831892
SNP_P4_63743_44714662	NC_021163.1	Ca_kabuli_chr04	44714662	TT	AA	1946831895
SNP_P4_63744_44714690	NC_021163.1	Ca_kabuli_chr04	44714690	AA	TT	1946831897
SNP_P4_63745_44717560	NC_021163.1	Ca_kabuli_chr04	44717560	AA	GG	1946831899
SNP_P4_63746_44717593	NC_021163.1	Ca_kabuli_chr04	44717593	TT	CC	1946831901
SNP_P4_63747_44717607	NC_021163.1	Ca_kabuli_chr04	44717607	GG	AA	1946831903
SNP_P4_63748_44717776	NC_021163.1	Ca_kabuli_chr04	44717776	TT	GG	1946831905
SNP_P4_63749_44717958	NC_021163.1	Ca_kabuli_chr04	44717958	CC	AA	1946831907
SNP_P4_63750_44717967	NC_021163.1	Ca_kabuli_chr04	44717967	AA	TT	1946831909
SNP_P4_63751_44718145	NC_021163.1	Ca_kabuli_chr04	44718145	TT	CC	1946831912
SNP_P4_63752_44718186	NC_021163.1	Ca_kabuli_chr04	44718186	GG	CC	1946831914
SNP_P4_63753_44718216	NC_021163.1	Ca_kabuli_chr04	44718216	GG	AA	1946831916
SNP_P4_63754_44718501	NC_021163.1	Ca_kabuli_chr04	44718501	TT	AA	1946831918
SNP_P4_63755_44718554	NC_021163.1	Ca_kabuli_chr04	44718554	CC	TT	1946831920
SNP_P4_63756_44718578	NC_021163.1	Ca_kabuli_chr04	44718578	GG	CC	1946831923
SNP_P4_63758_44718619	NC_021163.1	Ca_kabuli_chr04	44718619	TT	GG	1946831925
SNP_P4_63759_44718713	NC_021163.1	Ca_kabuli_chr04	44718713	GG	AA	1946831927
SNP_P4_63760_44718714	NC_021163.1	Ca_kabuli_chr04	44718714	CC	TT	1946831929
SNP_P4_63761_44718739	NC_021163.1	Ca_kabuli_chr04	44718739	TT	CC	1946831931
SNP_P4_63762_44718749	NC_021163.1	Ca_kabuli_chr04	44718749	GG	TT	1946831933
SNP_P4_63763_44718760	NC_021163.1	Ca_kabuli_chr04	44718760	AA	TT	1946831935
SNP_P4_63764_44718802	NC_021163.1	Ca_kabuli_chr04	44718802	GG	CC	1946831937
SNP_P4_63765_44718857	NC_021163.1	Ca_kabuli_chr04	44718857	GG	TT	1946831939
SNP_P4_63766_44718858	NC_021163.1	Ca_kabuli_chr04	44718858	TT	CC	1946831941

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_63768_44719713	NC_021163.1	Ca_kabuli_chr04	44719713	TT	CC	1946831945
SNP_P4_63769_44720979	NC_021163.1	Ca_kabuli_chr04	44720979	AA	CC	1946831947
SNP_P4_63770_44721037	NC_021163.1	Ca_kabuli_chr04	44721037	TT	CC	1946831949
SNP_P4_63771_44721393	NC_021163.1	Ca_kabuli_chr04	44721393	AA	GG	1946831951
SNP_P4_63772_44721695	NC_021163.1	Ca_kabuli_chr04	44721695	GG	AA	1946831953
SNP_P4_63773_44724562	NC_021163.1	Ca_kabuli_chr04	44724562	AA	GG	1946831955
SNP_P4_63774_44724606	NC_021163.1	Ca_kabuli_chr04	44724606	CC	TT	1946831957
SNP_P4_63775_44724616	NC_021163.1	Ca_kabuli_chr04	44724616	AA	TT	1946831959
SNP_P4_63776_44724810	NC_021163.1	Ca_kabuli_chr04	44724810	AA	GG	1946831961
SNP_P4_63777_44724870	NC_021163.1	Ca_kabuli_chr04	44724870	CC	TT	1946831963
SNP_P4_63778_44724975	NC_021163.1	Ca_kabuli_chr04	44724975	CC	TT	1946831965
SNP_P4_63779_44725139	NC_021163.1	Ca_kabuli_chr04	44725139	GG	AA	1946831967
SNP_P4_63780_44725148	NC_021163.1	Ca_kabuli_chr04	44725148	CC	TT	1946831969
SNP_P4_63781_44725151	NC_021163.1	Ca_kabuli_chr04	44725151	GG	AA	1946831971
SNP_P4_63782_44725166	NC_021163.1	Ca_kabuli_chr04	44725166	GG	AA	1946831973
SNP_P4_63783_44725172	NC_021163.1	Ca_kabuli_chr04	44725172	AA	GG	1946831975
SNP_P4_63784_44725198	NC_021163.1	Ca_kabuli_chr04	44725198	TT	CC	1946831978
SNP_P4_63785_44725551	NC_021163.1	Ca_kabuli_chr04	44725551	TT	AA	1946831980
SNP_P4_63787_44727362	NC_021163.1	Ca_kabuli_chr04	44727362	AA	GG	1946831982
SNP_P4_63788_44727415	NC_021163.1	Ca_kabuli_chr04	44727415	AA	GG	1946831984
SNP_P4_63789_44727430	NC_021163.1	Ca_kabuli_chr04	44727430	AA	GG	1946831986
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SNP_P4_63791_44727477	NC_021163.1	Ca_kabuli_chr04	44727477	CC	TT	1946831990
SNP_P4_63792_44727478	NC_021163.1	Ca_kabuli_chr04	44727478	TT	CC	1946831992
SNP_P4_63793_44727509	NC_021163.1	Ca_kabuli_chr04	44727509	TT	AA	1946831994
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SNP_P4_63795_44727828	NC_021163.1	Ca_kabuli_chr04	44727828	AA	CC	1946831998
SNP_P4_63796_44727876	NC_021163.1	Ca_kabuli_chr04	44727876	GG	TT	1946832000
SNP_P4_63797_44728613	NC_021163.1	Ca_kabuli_chr04	44728613	CC	TT	1946832002
SNP_P4_63799_44729645	NC_021163.1	Ca_kabuli_chr04	44729645	CC	TT	1946832004
SNP_P4_63800_44729728	NC_021163.1	Ca_kabuli_chr04	44729728	AA	TT	1946832006
SNP_P4_63801_44729869	NC_021163.1	Ca_kabuli_chr04	44729869	GG	TT	1946832008
SNP_P4_63802_44729897	NC_021163.1	Ca_kabuli_chr04	44729897	AA	GG	1946832010
SNP_P4_63803_44729903	NC_021163.1	Ca_kabuli_chr04	44729903	TT	AA	1946832012
SNP_P4_63804_44729915	NC_021163.1	Ca_kabuli_chr04	44729915	AA	GG	1946832014
SNP_P4_63805_44729958	NC_021163.1	Ca_kabuli_chr04	44729958	TT	CC	1946832016
SNP_P4_63806_44729965	NC_021163.1	Ca_kabuli_chr04	44729965	CC	TT	1946832018
SNP_P4_63807_44729972	NC_021163.1	Ca_kabuli_chr04	44729972	CC	TT	1946832021
SNP_P4_63808_44732128	NC_021163.1	Ca_kabuli_chr04	44732128	TT	AA	1946832023
SNP_P4_63809_44732129	NC_021163.1	Ca_kabuli_chr04	44732129	AA	TT	1946832025
SNP_P4_63810_44733067	NC_021163.1	Ca_kabuli_chr04	44733067	AA	TT	1946832027

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_63813_44738532	NC_021163.1	Ca_kabuli_chr04	44738532	TT	CC	1946832031
SNP_P4_63816_44738826	NC_021163.1	Ca_kabuli_chr04	44738826	AA	CC	1946832033
SNP_P4_63817_44739658	NC_021163.1	Ca_kabuli_chr04	44739658	CC	GG	1946832035
SNP_P4_63818_44739670	NC_021163.1	Ca_kabuli_chr04	44739670	AA	TT	1946832037
SNP_P4_63819_44739709	NC_021163.1	Ca_kabuli_chr04	44739709	TT	CC	1946832039
SNP_P4_63821_44740359	NC_021163.1	Ca_kabuli_chr04	44740359	CC	TT	1946832041
SNP_P4_63822_44740620	NC_021163.1	Ca_kabuli_chr04	44740620	AA	GG	1946832043
SNP_P4_63823_44740621	NC_021163.1	Ca_kabuli_chr04	44740621	TT	AA	1946832045
SNP_P4_63824_44740933	NC_021163.1	Ca_kabuli_chr04	44740933	CC	GG	1946832047
SNP_P4_63825_44740949	NC_021163.1	Ca_kabuli_chr04	44740949	TT	CC	1946832049
SNP_P4_63826_44741058	NC_021163.1	Ca_kabuli_chr04	44741058	AA	TT	1946832051
SNP_P4_63827_44741138	NC_021163.1	Ca_kabuli_chr04	44741138	CC	TT	1946832053
SNP_P4_63828_44741888	NC_021163.1	Ca_kabuli_chr04	44741888	CC	TT	1946832055
SNP_P4_63829_44742102	NC_021163.1	Ca_kabuli_chr04	44742102	GG	AA	1946832057
SNP_P4_63830_44742149	NC_021163.1	Ca_kabuli_chr04	44742149	AA	TT	1946832059
SNP_P4_63831_44742175	NC_021163.1	Ca_kabuli_chr04	44742175	TT	CC	1946832061
SNP_P4_63832_44742277	NC_021163.1	Ca_kabuli_chr04	44742277	GG	AA	1946832063
SNP_P4_63834_44742852	NC_021163.1	Ca_kabuli_chr04	44742852	AA	GG	1946832065
SNP_P4_63835_44743289	NC_021163.1	Ca_kabuli_chr04	44743289	AA	CC	1946832067
SNP_P4_63836_44743324	NC_021163.1	Ca_kabuli_chr04	44743324	GG	AA	1946832069
SNP_P4_63837_44744746	NC_021163.1	Ca_kabuli_chr04	44744746	TT	GG	1946832071
SNP_P4_63838_44744780	NC_021163.1	Ca_kabuli_chr04	44744780	CC	GG	1946832074
SNP_P4_63840_44746529	NC_021163.1	Ca_kabuli_chr04	44746529	AA	CC	1946832076
SNP_P4_63841_44746593	NC_021163.1	Ca_kabuli_chr04	44746593	GG	AA	1946832078
SNP_P4_63842_44747457	NC_021163.1	Ca_kabuli_chr04	44747457	AA	GG	1946832080
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SNP_P4_63846_44748110	NC_021163.1	Ca_kabuli_chr04	44748110	GG	CC	1946832087
SNP_P4_63847_44748113	NC_021163.1	Ca_kabuli_chr04	44748113	AA	GG	1946832089
SNP_P4_63848_44748115	NC_021163.1	Ca_kabuli_chr04	44748115	CC	GG	1946832091
SNP_P4_63849_44748418	NC_021163.1	Ca_kabuli_chr04	44748418	AA	GG	1946832093
SNP_P4_63850_44748895	NC_021163.1	Ca_kabuli_chr04	44748895	AA	TT	1946832095
SNP_P4_63851_44748904	NC_021163.1	Ca_kabuli_chr04	44748904	CC	TT	1946832096
SNP_P4_63852_44748916	NC_021163.1	Ca_kabuli_chr04	44748916	TT	CC	1946832098
SNP_P4_63853_44748928	NC_021163.1	Ca_kabuli_chr04	44748928	GG	AA	1946832101
SNP_P4_63854_44748953	NC_021163.1	Ca_kabuli_chr04	44748953	AA	GG	1946832102
SNP_P4_63855_44748973	NC_021163.1	Ca_kabuli_chr04	44748973	GG	AA	1946832104
SNP_P4_63856_44749262	NC_021163.1	Ca_kabuli_chr04	44749262	TT	CC	1946832106
SNP_P4_63857_44749467	NC_021163.1	Ca_kabuli_chr04	44749467	TT	AA	1946832108
SNP_P4_63858_44749490	NC_021163.1	Ca_kabuli_chr04	44749490	GG	TT	1946832110
SNP_P4_63859_44749802	NC_021163.1	Ca_kabuli_chr04	44749802	GG	AA	1946832112

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_63861_44750159	NC_021163.1	Ca_kabuli_chr04	44750159	AA	CC	1946832116
SNP_P4_63862_44750277	NC_021163.1	Ca_kabuli_chr04	44750277	TT	CC	1946832118
SNP_P4_63863_44750289	NC_021163.1	Ca_kabuli_chr04	44750289	AA	GG	1946832120
SNP_P4_63865_44750613	NC_021163.1	Ca_kabuli_chr04	44750613	GG	AA	1946832122
SNP_P4_63867_44751008	NC_021163.1	Ca_kabuli_chr04	44751008	CC	TT	1946832124
SNP_P4_63868_44751089	NC_021163.1	Ca_kabuli_chr04	44751089	TT	AA	1946832126
SNP_P4_63869_44751118	NC_021163.1	Ca_kabuli_chr04	44751118	CC	GG	1946832128
SNP_P4_63870_44751123	NC_021163.1	Ca_kabuli_chr04	44751123	TT	GG	1946832130
SNP_P4_63871_44751151	NC_021163.1	Ca_kabuli_chr04	44751151	CC	TT	1946832132
SNP_P4_63872_44751355	NC_021163.1	Ca_kabuli_chr04	44751355	GG	AA	1946832134
SNP_P4_63873_44751370	NC_021163.1	Ca_kabuli_chr04	44751370	GG	TT	1946832136
SNP_P4_63874_44751389	NC_021163.1	Ca_kabuli_chr04	44751389	AA	GG	1946832138
SNP_P4_63875_44751467	NC_021163.1	Ca_kabuli_chr04	44751467	AA	TT	1946832140
SNP_P4_63876_44753391	NC_021163.1	Ca_kabuli_chr04	44753391	GG	TT	1946832142
SNP_P4_63877_44755475	NC_021163.1	Ca_kabuli_chr04	44755475	GG	TT	1946832144
SNP_P4_63878_44758317	NC_021163.1	Ca_kabuli_chr04	44758317	GG	CC	1946832146
SNP_P4_63879_44758330	NC_021163.1	Ca_kabuli_chr04	44758330	AA	GG	1946832148
SNP_P4_63880_44760169	NC_021163.1	Ca_kabuli_chr04	44760169	GG	AA	1946832150
SNP_P4_63881_44760171	NC_021163.1	Ca_kabuli_chr04	44760171	CC	TT	1946832152
SNP_P4_63882_44760402	NC_021163.1	Ca_kabuli_chr04	44760402	CC	GG	1946832154
SNP_P4_63883_44762074	NC_021163.1	Ca_kabuli_chr04	44762074	TT	CC	1946832156
SNP_P4_63884_44762090	NC_021163.1	Ca_kabuli_chr04	44762090	CC	TT	1946832158
SNP_P4_63885_44762140	NC_021163.1	Ca_kabuli_chr04	44762140	AA	GG	1946832160
SNP_P4_63886_44762965	NC_021163.1	Ca_kabuli_chr04	44762965	CC	AA	1946832162
SNP_P4_63887_44763640	NC_021163.1	Ca_kabuli_chr04	44763640	GG	AA	1946832164
SNP_P4_63888_44763665	NC_021163.1	Ca_kabuli_chr04	44763665	TT	AA	1946832166
SNP_P4_63889_44763951	NC_021163.1	Ca_kabuli_chr04	44763951	AA	GG	1946832167
SNP_P4_63890_44764272	NC_021163.1	Ca_kabuli_chr04	44764272	GG	AA	1946832169
SNP_P4_63892_44764298	NC_021163.1	Ca_kabuli_chr04	44764298	AA	GG	1946832171
SNP_P4_63893_44764335	NC_021163.1	Ca_kabuli_chr04	44764335	GG	TT	1946832173
SNP_P4_63894_44764364	NC_021163.1	Ca_kabuli_chr04	44764364	AA	GG	1946832175
SNP_P4_63895_44764533	NC_021163.1	Ca_kabuli_chr04	44764533	TT	AA	1946832177
SNP_P4_63896_44764543	NC_021163.1	Ca_kabuli_chr04	44764543	AA	TT	1946832179
SNP_P4_63898_44764816	NC_021163.1	Ca_kabuli_chr04	44764816	AA	TT	1946832181
SNP_P4_63899_44764817	NC_021163.1	Ca_kabuli_chr04	44764817	TT	AA	1946832183
SNP_P4_63900_44765535	NC_021163.1	Ca_kabuli_chr04	44765535	TT	CC	1946832185
SNP_P4_63901_44766416	NC_021163.1	Ca_kabuli_chr04	44766416	CC	TT	1946832187
SNP_P4_63902_44766887	NC_021163.1	Ca_kabuli_chr04	44766887	TT	CC	1946832189
SNP_P4_63903_44767161	NC_021163.1	Ca_kabuli_chr04	44767161	GG	TT	1946832191
SNP_P4_63904_44767166	NC_021163.1	Ca_kabuli_chr04	44767166	TT	CC	1946832193
SNP_P4_63905_44767169	NC_021163.1	Ca_kabuli_chr04	44767169	CC	TT	1946832195

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_63908_44769640	NC_021163.1	Ca_kabuli_chr04	44769640	AA	GG	1946832200
SNP_P4_63909_44769677	NC_021163.1	Ca_kabuli_chr04	44769677	CC	TT	1946832202
SNP_P4_63910_44769695	NC_021163.1	Ca_kabuli_chr04	44769695	GG	CC	1946832204
SNP_P4_63911_44769713	NC_021163.1	Ca_kabuli_chr04	44769713	AA	TT	1946832206
SNP_P4_63912_44769875	NC_021163.1	Ca_kabuli_chr04	44769875	TT	CC	1946832207
SNP_P4_63913_44770018	NC_021163.1	Ca_kabuli_chr04	44770018	GG	AA	1946832209
SNP_P4_63914_44770053	NC_021163.1	Ca_kabuli_chr04	44770053	GG	AA	1946832211
SNP_P4_63915_44770093	NC_021163.1	Ca_kabuli_chr04	44770093	AA	GG	1946832213
SNP_P4_63916_44770098	NC_021163.1	Ca_kabuli_chr04	44770098	AA	GG	1946832215
SNP_P4_63917_44770452	NC_021163.1	Ca_kabuli_chr04	44770452	GG	AA	1946832217
SNP_P4_63918_44770915	NC_021163.1	Ca_kabuli_chr04	44770915	GG	TT	1946832219
SNP_P4_63919_44771276	NC_021163.1	Ca_kabuli_chr04	44771276	TT	GG	1946832222
SNP_P4_63921_44771297	NC_021163.1	Ca_kabuli_chr04	44771297	CC	TT	1946832224
SNP_P4_63922_44771336	NC_021163.1	Ca_kabuli_chr04	44771336	TT	CC	1946832226
SNP_P4_63923_44771644	NC_021163.1	Ca_kabuli_chr04	44771644	AA	CC	1946832228
SNP_P4_63924_44772416	NC_021163.1	Ca_kabuli_chr04	44772416	TT	CC	1946832230
SNP_P4_63926_44773069	NC_021163.1	Ca_kabuli_chr04	44773069	AA	TT	1946832232
SNP_P4_63928_44773165	NC_021163.1	Ca_kabuli_chr04	44773165	AA	GG	1946832234
SNP_P4_63929_44773327	NC_021163.1	Ca_kabuli_chr04	44773327	TT	CC	1946832236
SNP_P4_63930_44773328	NC_021163.1	Ca_kabuli_chr04	44773328	GG	AA	1946832238
SNP_P4_63931_44773387	NC_021163.1	Ca_kabuli_chr04	44773387	CC	TT	1946832241
SNP_P4_63932_44773392	NC_021163.1	Ca_kabuli_chr04	44773392	CC	TT	1946832243
SNP_P4_63933_44773407	NC_021163.1	Ca_kabuli_chr04	44773407	GG	AA	1946832245
SNP_P4_63936_44773799	NC_021163.1	Ca_kabuli_chr04	44773799	TT	CC	1946832247
SNP_P4_63937_44773868	NC_021163.1	Ca_kabuli_chr04	44773868	TT	GG	1946832249
SNP_P4_63939_44774086	NC_021163.1	Ca_kabuli_chr04	44774086	AA	CC	1946832251
SNP_P4_63940_44776540	NC_021163.1	Ca_kabuli_chr04	44776540	CC	AA	1946832253
SNP_P4_63941_44776672	NC_021163.1	Ca_kabuli_chr04	44776672	GG	AA	1946832255
SNP_P4_63942_44776682	NC_021163.1	Ca_kabuli_chr04	44776682	AA	GG	1946832257
SNP_P4_63943_44776683	NC_021163.1	Ca_kabuli_chr04	44776683	AA	CC	1946832259
SNP_P4_63944_44776698	NC_021163.1	Ca_kabuli_chr04	44776698	TT	CC	1946832261
SNP_P4_63945_44776701	NC_021163.1	Ca_kabuli_chr04	44776701	CC	TT	1946832263
SNP_P4_63946_44776750	NC_021163.1	Ca_kabuli_chr04	44776750	TT	CC	1946832265
SNP_P4_63947_44776765	NC_021163.1	Ca_kabuli_chr04	44776765	GG	AA	1946832267
SNP_P4_63948_44776934	NC_021163.1	Ca_kabuli_chr04	44776934	CC	TT	1946832269
SNP_P4_63949_44776953	NC_021163.1	Ca_kabuli_chr04	44776953	TT	CC	1946832271
SNP_P4_63950_44776970	NC_021163.1	Ca_kabuli_chr04	44776970	CC	TT	1946832273
SNP_P4_63951_44776982	NC_021163.1	Ca_kabuli_chr04	44776982	CC	TT	1946832275
SNP_P4_63952_44777033	NC_021163.1	Ca_kabuli_chr04	44777033	TT	CC	1946832278
SNP_P4_63953_44777038	NC_021163.1	Ca_kabuli_chr04	44777038	AA	GG	1946832280
SNP_P4_63954_44777076	NC_021163.1	Ca_kabuli_chr04	44777076	CC	TT	1946832282

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_63956_44777310	NC_021163.1	Ca_kabuli_chr04	44777310	CC	TT	1946832286
SNP_P4_63957_44777358	NC_021163.1	Ca_kabuli_chr04	44777358	GG	TT	1946832288
SNP_P4_63958_44777369	NC_021163.1	Ca_kabuli_chr04	44777369	TT	GG	1946832290
SNP_P4_63959_44777645	NC_021163.1	Ca_kabuli_chr04	44777645	AA	CC	1946832292
SNP_P4_63960_44777657	NC_021163.1	Ca_kabuli_chr04	44777657	CC	TT	1946832294
SNP_P4_63961_44777706	NC_021163.1	Ca_kabuli_chr04	44777706	GG	AA	1946832296
SNP_P4_63963_44777831	NC_021163.1	Ca_kabuli_chr04	44777831	AA	GG	1946832298
SNP_P4_63964_44778021	NC_021163.1	Ca_kabuli_chr04	44778021	CC	TT	1946832300
SNP_P4_63965_44778029	NC_021163.1	Ca_kabuli_chr04	44778029	CC	TT	1946832302
SNP_P4_63966_44778047	NC_021163.1	Ca_kabuli_chr04	44778047	GG	AA	1946832304
SNP_P4_63967_44778065	NC_021163.1	Ca_kabuli_chr04	44778065	AA	GG	1946832306
SNP_P4_63968_44779296	NC_021163.1	Ca_kabuli_chr04	44779296	TT	AA	1946832308
SNP_P4_63969_44779408	NC_021163.1	Ca_kabuli_chr04	44779408	CC	TT	1946832310
SNP_P4_63970_44779517	NC_021163.1	Ca_kabuli_chr04	44779517	TT	CC	1946832312
SNP_P4_63971_44779633	NC_021163.1	Ca_kabuli_chr04	44779633	AA	GG	1946832314
SNP_P4_63972_44779673	NC_021163.1	Ca_kabuli_chr04	44779673	TT	CC	1946832316
SNP_P4_63973_44780281	NC_021163.1	Ca_kabuli_chr04	44780281	TT	CC	1946832318
SNP_P4_63974_44780357	NC_021163.1	Ca_kabuli_chr04	44780357	CC	TT	1946832320
SNP_P4_63976_44781275	NC_021163.1	Ca_kabuli_chr04	44781275	GG	AA	1946832322
SNP_P4_63978_44782290	NC_021163.1	Ca_kabuli_chr04	44782290	AA	GG	1946832324
SNP_P4_63980_44783831	NC_021163.1	Ca_kabuli_chr04	44783831	AA	GG	1946832326
SNP_P4_63981_44784480	NC_021163.1	Ca_kabuli_chr04	44784480	GG	TT	1946832328
SNP_P4_63982_44784873	NC_021163.1	Ca_kabuli_chr04	44784873	GG	AA	1946832331
SNP_P4_63983_44784911	NC_021163.1	Ca_kabuli_chr04	44784911	TT	CC	1946832333
SNP_P4_63984_44785331	NC_021163.1	Ca_kabuli_chr04	44785331	GG	AA	1946832335
SNP_P4_63985_44785477	NC_021163.1	Ca_kabuli_chr04	44785477	TT	AA	1946832337
SNP_P4_63986_44785692	NC_021163.1	Ca_kabuli_chr04	44785692	AA	GG	1946832339
SNP_P4_63987_44785846	NC_021163.1	Ca_kabuli_chr04	44785846	CC	AA	1946832341
SNP_P4_63990_44786715	NC_021163.1	Ca_kabuli_chr04	44786715	AA	GG	1946832343
SNP_P4_63991_44786724	NC_021163.1	Ca_kabuli_chr04	44786724	TT	CC	1946832345
SNP_P4_63992_44786727	NC_021163.1	Ca_kabuli_chr04	44786727	GG	TT	1946832347
SNP_P4_63993_44786742	NC_021163.1	Ca_kabuli_chr04	44786742	TT	AA	1946832349
SNP_P4_63995_44787133	NC_021163.1	Ca_kabuli_chr04	44787133	AA	GG	1946832351
SNP_P4_63997_44792093	NC_021163.1	Ca_kabuli_chr04	44792093	AA	GG	1946832353
SNP_P4_63998_44792300	NC_021163.1	Ca_kabuli_chr04	44792300	AA	CC	1946832355
SNP_P4_63999_44793404	NC_021163.1	Ca_kabuli_chr04	44793404	AA	TT	1946832357
SNP_P4_64000_44793407	NC_021163.1	Ca_kabuli_chr04	44793407	AA	GG	1946832359
SNP_P4_64001_44793415	NC_021163.1	Ca_kabuli_chr04	44793415	GG	AA	1946832361
SNP_P4_64002_44793419	NC_021163.1	Ca_kabuli_chr04	44793419	CC	GG	1946832363
SNP_P4_64003_44794226	NC_021163.1	Ca_kabuli_chr04	44794226	GG	TT	1946832365
SNP_P4_64004_44794268	NC_021163.1	Ca_kabuli_chr04	44794268	CC	TT	1946832367

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_64006_44794710	NC_021163.1	Ca_kabuli_chr04	44794710	AA	TT	1946832372
SNP_P4_64007_44794842	NC_021163.1	Ca_kabuli_chr04	44794842	TT	CC	1946832375
SNP_P4_64008_44795835	NC_021163.1	Ca_kabuli_chr04	44795835	TT	CC	1946832377
SNP_P4_64009_44797973	NC_021163.1	Ca_kabuli_chr04	44797973	AA	GG	1946832379
SNP_P4_64010_44798592	NC_021163.1	Ca_kabuli_chr04	44798592	TT	CC	1946832381
SNP_P4_64011_44798862	NC_021163.1	Ca_kabuli_chr04	44798862	GG	CC	1946832383
SNP_P4_64013_44803694	NC_021163.1	Ca_kabuli_chr04	44803694	TT	AA	1946832385
SNP_P4_64014_44813879	NC_021163.1	Ca_kabuli_chr04	44813879	AA	GG	1946832387
SNP_P4_64015_44816284	NC_021163.1	Ca_kabuli_chr04	44816284	CC	TT	1946832389
SNP_P4_64016_44819653	NC_021163.1	Ca_kabuli_chr04	44819653	AA	GG	1946832391
SNP_P4_64017_44819671	NC_021163.1	Ca_kabuli_chr04	44819671	CC	TT	1946832393
SNP_P4_64018_44819854	NC_021163.1	Ca_kabuli_chr04	44819854	AA	GG	1946832395
SNP_P4_64019_44819870	NC_021163.1	Ca_kabuli_chr04	44819870	AA	GG	1946832397
SNP_P4_64020_44819941	NC_021163.1	Ca_kabuli_chr04	44819941	TT	CC	1946832399
SNP_P4_64021_44820024	NC_021163.1	Ca_kabuli_chr04	44820024	GG	TT	1946832401
SNP_P4_64022_44820050	NC_021163.1	Ca_kabuli_chr04	44820050	TT	CC	1946832403
SNP_P4_64023_44820094	NC_021163.1	Ca_kabuli_chr04	44820094	CC	TT	1946832405
SNP_P4_64024_44820201	NC_021163.1	Ca_kabuli_chr04	44820201	AA	CC	1946832407
SNP_P4_64025_44820470	NC_021163.1	Ca_kabuli_chr04	44820470	TT	AA	1946832409
SNP_P4_64026_44821255	NC_021163.1	Ca_kabuli_chr04	44821255	CC	TT	1946832412
SNP_P4_64027_44822509	NC_021163.1	Ca_kabuli_chr04	44822509	CC	AA	1946832414
SNP_P4_64029_44831009	NC_021163.1	Ca_kabuli_chr04	44831009	TT	GG	1946832416
SNP_P4_64030_44832795	NC_021163.1	Ca_kabuli_chr04	44832795	AA	CC	1946832418
SNP_P4_64031_44832839	NC_021163.1	Ca_kabuli_chr04	44832839	AA	GG	1946832420
SNP_P4_64032_44832862	NC_021163.1	Ca_kabuli_chr04	44832862	AA	GG	1946832422
SNP_P4_64033_44832891	NC_021163.1	Ca_kabuli_chr04	44832891	TT	CC	1946832425
SNP_P4_64034_44833070	NC_021163.1	Ca_kabuli_chr04	44833070	TT	GG	1946832427
SNP_P4_64035_44833347	NC_021163.1	Ca_kabuli_chr04	44833347	CC	AA	1946832429
SNP_P4_64036_44833365	NC_021163.1	Ca_kabuli_chr04	44833365	AA	GG	1946832431
SNP_P4_64037_44833556	NC_021163.1	Ca_kabuli_chr04	44833556	TT	AA	1946832433
SNP_P4_64038_44833560	NC_021163.1	Ca_kabuli_chr04	44833560	TT	AA	1946832435
SNP_P4_64039_44833564	NC_021163.1	Ca_kabuli_chr04	44833564	AA	TT	1946832437
SNP_P4_64040_44836454	NC_021163.1	Ca_kabuli_chr04	44836454	GG	TT	1946832439
SNP_P4_64041_44836544	NC_021163.1	Ca_kabuli_chr04	44836544	GG	TT	1946832441
SNP_P4_64042_44836598	NC_021163.1	Ca_kabuli_chr04	44836598	CC	TT	1946832443
SNP_P4_64044_44836845	NC_021163.1	Ca_kabuli_chr04	44836845	TT	AA	1946832445
SNP_P4_64045_44837120	NC_021163.1	Ca_kabuli_chr04	44837120	AA	CC	1946832447
SNP_P4_64047_44837685	NC_021163.1	Ca_kabuli_chr04	44837685	CC	TT	1946832449
SNP_P4_64048_44837756	NC_021163.1	Ca_kabuli_chr04	44837756	TT	GG	1946832451
SNP_P4_64051_44838075	NC_021163.1	Ca_kabuli_chr04	44838075	TT	AA	1946832453
SNP_P4_64052_44838215	NC_021163.1	Ca_kabuli_chr04	44838215	CC	TT	1946832455

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_64054_44838294	NC_021163.1	Ca_kabuli_chr04	44838294	AA	TT	1946832459
SNP_P4_64055_44838315	NC_021163.1	Ca_kabuli_chr04	44838315	AA	CC	1946832461
SNP_P4_64056_44838322	NC_021163.1	Ca_kabuli_chr04	44838322	AA	TT	1946832463
SNP_P4_64058_44838554	NC_021163.1	Ca_kabuli_chr04	44838554	CC	TT	1946832465
SNP_P4_64059_44838625	NC_021163.1	Ca_kabuli_chr04	44838625	AA	CC	1946832467
SNP_P4_64060_44838677	NC_021163.1	Ca_kabuli_chr04	44838677	GG	AA	1946832469
SNP_P4_64061_44838857	NC_021163.1	Ca_kabuli_chr04	44838857	TT	AA	1946832471
SNP_P4_64062_44838938	NC_021163.1	Ca_kabuli_chr04	44838938	CC	TT	1946832473
SNP_P4_64063_44839105	NC_021163.1	Ca_kabuli_chr04	44839105	CC	TT	1946832475
SNP_P4_64064_44841941	NC_021163.1	Ca_kabuli_chr04	44841941	GG	AA	1946832477
SNP_P4_64065_44842867	NC_021163.1	Ca_kabuli_chr04	44842867	TT	CC	1946832480
SNP_P4_64066_44842882	NC_021163.1	Ca_kabuli_chr04	44842882	TT	CC	1946832482
SNP_P4_64067_44842884	NC_021163.1	Ca_kabuli_chr04	44842884	AA	GG	1946832484
SNP_P4_64069_44843129	NC_021163.1	Ca_kabuli_chr04	44843129	CC	TT	1946832486
SNP_P4_64070_44843151	NC_021163.1	Ca_kabuli_chr04	44843151	AA	CC	1946832488
SNP_P4_64071_44843165	NC_021163.1	Ca_kabuli_chr04	44843165	TT	AA	1946832491
SNP_P4_64072_44843491	NC_021163.1	Ca_kabuli_chr04	44843491	AA	TT	1946832493
SNP_P4_64073_44845268	NC_021163.1	Ca_kabuli_chr04	44845268	TT	CC	1946832495
SNP_P4_64074_44845272	NC_021163.1	Ca_kabuli_chr04	44845272	GG	AA	1946832496
SNP_P4_64075_44845549	NC_021163.1	Ca_kabuli_chr04	44845549	TT	AA	1946832498
SNP_P4_64076_44845553	NC_021163.1	Ca_kabuli_chr04	44845553	AA	GG	1946832500
SNP_P4_64077_44847519	NC_021163.1	Ca_kabuli_chr04	44847519	AA	GG	1946832502
SNP_P4_64079_44848410	NC_021163.1	Ca_kabuli_chr04	44848410	AA	CC	1946832504
SNP_P4_64081_44853181	NC_021163.1	Ca_kabuli_chr04	44853181	GG	CC	1946832506
SNP_P4_64082_44854058	NC_021163.1	Ca_kabuli_chr04	44854058	AA	TT	1946832509
SNP_P4_64083_44854070	NC_021163.1	Ca_kabuli_chr04	44854070	CC	TT	1946832511
SNP_P4_64084_44854113	NC_021163.1	Ca_kabuli_chr04	44854113	TT	CC	1946832513
SNP_P4_64085_44854141	NC_021163.1	Ca_kabuli_chr04	44854141	AA	GG	1946832515
SNP_P4_64087_44854409	NC_021163.1	Ca_kabuli_chr04	44854409	AA	TT	1946832517
SNP_P4_64089_44854674	NC_021163.1	Ca_kabuli_chr04	44854674	AA	CC	1946832519
SNP_P4_64091_44854958	NC_021163.1	Ca_kabuli_chr04	44854958	CC	TT	1946832521
SNP_P4_64092_44854963	NC_021163.1	Ca_kabuli_chr04	44854963	GG	AA	1946832523
SNP_P4_64093_44855124	NC_021163.1	Ca_kabuli_chr04	44855124	GG	TT	1946832525
SNP_P4_64094_44855148	NC_021163.1	Ca_kabuli_chr04	44855148	AA	CC	1946832527
SNP_P4_64097_44856798	NC_021163.1	Ca_kabuli_chr04	44856798	GG	AA	1946832529
SNP_P4_64099_44856914	NC_021163.1	Ca_kabuli_chr04	44856914	AA	CC	1946832531
SNP_P4_64100_44860954	NC_021163.1	Ca_kabuli_chr04	44860954	GG	TT	1946832534
SNP_P4_64101_44861486	NC_021163.1	Ca_kabuli_chr04	44861486	CC	GG	1946832536
SNP_P4_64102_44862195	NC_021163.1	Ca_kabuli_chr04	44862195	TT	CC	1946832538
SNP_P4_64104_44863365	NC_021163.1	Ca_kabuli_chr04	44863365	GG	CC	1946832540
SNP_P4_64105_44863384	NC_021163.1	Ca_kabuli_chr04	44863384	AA	TT	1946832542

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_64107_44864267	NC_021163.1	Ca_kabuli_chr04	44864267	GG	AA	1946832546
SNP_P4_64108_44864468	NC_021163.1	Ca_kabuli_chr04	44864468	AA	TT	1946832548
SNP_P4_64109_44865317	NC_021163.1	Ca_kabuli_chr04	44865317	AA	TT	1946832550
SNP_P4_64110_44865472	NC_021163.1	Ca_kabuli_chr04	44865472	TT	CC	1946832558
SNP_P4_64112_44865527	NC_021163.1	Ca_kabuli_chr04	44865527	TT	CC	1946832560
SNP_P4_64113_44865731	NC_021163.1	Ca_kabuli_chr04	44865731	GG	AA	1946832562
SNP_P4_64114_44866190	NC_021163.1	Ca_kabuli_chr04	44866190	TT	CC	1946832564
SNP_P4_64115_44868179	NC_021163.1	Ca_kabuli_chr04	44868179	TT	GG	1946832566
SNP_P4_64116_44868597	NC_021163.1	Ca_kabuli_chr04	44868597	GG	CC	1946832568
SNP_P4_64117_44869660	NC_021163.1	Ca_kabuli_chr04	44869660	AA	CC	1946832570
SNP_P4_64118_44870337	NC_021163.1	Ca_kabuli_chr04	44870337	CC	GG	1946832572
SNP_P4_64119_44870338	NC_021163.1	Ca_kabuli_chr04	44870338	AA	GG	1946832574
SNP_P4_64120_44870519	NC_021163.1	Ca_kabuli_chr04	44870519	GG	AA	1946832576
SNP_P4_64121_44871398	NC_021163.1	Ca_kabuli_chr04	44871398	GG	AA	1946832579
SNP_P4_64122_44871469	NC_021163.1	Ca_kabuli_chr04	44871469	AA	GG	1946832581
SNP_P4_64123_44871509	NC_021163.1	Ca_kabuli_chr04	44871509	AA	GG	1946832583
SNP_P4_64124_44871676	NC_021163.1	Ca_kabuli_chr04	44871676	TT	CC	1946832585
SNP_P4_64125_44872157	NC_021163.1	Ca_kabuli_chr04	44872157	AA	GG	1946832587
SNP_P4_64126_44872500	NC_021163.1	Ca_kabuli_chr04	44872500	GG	TT	1946832589
SNP_P4_64127_44872676	NC_021163.1	Ca_kabuli_chr04	44872676	GG	AA	1946832591
SNP_P4_64128_44872759	NC_021163.1	Ca_kabuli_chr04	44872759	GG	TT	1946832593
SNP_P4_64129_44872966	NC_021163.1	Ca_kabuli_chr04	44872966	CC	TT	1946832595
SNP_P4_64130_44873942	NC_021163.1	Ca_kabuli_chr04	44873942	GG	TT	1946832597
SNP_P4_64131_44874204	NC_021163.1	Ca_kabuli_chr04	44874204	CC	GG	1946832600
SNP_P4_64132_44874721	NC_021163.1	Ca_kabuli_chr04	44874721	AA	GG	1946832602
SNP_P4_64133_44875906	NC_021163.1	Ca_kabuli_chr04	44875906	TT	AA	1946832604
SNP_P4_64134_44875908	NC_021163.1	Ca_kabuli_chr04	44875908	TT	AA	1946832606
SNP_P4_64135_44876552	NC_021163.1	Ca_kabuli_chr04	44876552	CC	TT	1946832608
SNP_P4_64136_44876586	NC_021163.1	Ca_kabuli_chr04	44876586	AA	GG	1946832610
SNP_P4_64137_44876614	NC_021163.1	Ca_kabuli_chr04	44876614	TT	CC	1946832612
SNP_P4_64138_44877916	NC_021163.1	Ca_kabuli_chr04	44877916	GG	AA	1946832614
SNP_P4_64140_44878490	NC_021163.1	Ca_kabuli_chr04	44878490	CC	GG	1946832616
SNP_P4_64141_44878538	NC_021163.1	Ca_kabuli_chr04	44878538	CC	GG	1946832618
SNP_P4_64142_44881440	NC_021163.1	Ca_kabuli_chr04	44881440	AA	GG	1946832620
SNP_P4_64143_44881805	NC_021163.1	Ca_kabuli_chr04	44881805	TT	GG	1946832622
SNP_P4_64144_44881850	NC_021163.1	Ca_kabuli_chr04	44881850	TT	CC	1946832624
SNP_P4_64145_44881885	NC_021163.1	Ca_kabuli_chr04	44881885	AA	CC	1946832627
SNP_P4_64146_44882062	NC_021163.1	Ca_kabuli_chr04	44882062	GG	AA	1946832629
SNP_P4_64147_44883335	NC_021163.1	Ca_kabuli_chr04	44883335	TT	GG	1946832631
SNP_P4_64148_44883348	NC_021163.1	Ca_kabuli_chr04	44883348	TT	GG	1946832633
SNP_P4_64149_44883425	NC_021163.1	Ca_kabuli_chr04	44883425	CC	TT	1946832635

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_64151_44883636	NC_021163.1	Ca_kabuli_chr04	44883636	CC	AA	1946832639
SNP_P4_64152_44884440	NC_021163.1	Ca_kabuli_chr04	44884440	TT	AA	1946832641
SNP_P4_64153_44884782	NC_021163.1	Ca_kabuli_chr04	44884782	CC	AA	1946832643
SNP_P4_64154_44884784	NC_021163.1	Ca_kabuli_chr04	44884784	AA	CC	1946832645
SNP_P4_64155_44884811	NC_021163.1	Ca_kabuli_chr04	44884811	TT	AA	1946832647
SNP_P4_64156_44884820	NC_021163.1	Ca_kabuli_chr04	44884820	AA	GG	1946832649
SNP_P4_64157_44884903	NC_021163.1	Ca_kabuli_chr04	44884903	GG	CC	1946832651
SNP_P4_64158_44884944	NC_021163.1	Ca_kabuli_chr04	44884944	AA	CC	1946832653
SNP_P4_64159_44885149	NC_021163.1	Ca_kabuli_chr04	44885149	TT	CC	1946832656
SNP_P4_64160_44885179	NC_021163.1	Ca_kabuli_chr04	44885179	TT	CC	1946832658
SNP_P4_64161_44886023	NC_021163.1	Ca_kabuli_chr04	44886023	AA	TT	1946832660
SNP_P4_64162_44886049	NC_021163.1	Ca_kabuli_chr04	44886049	GG	AA	1946832662
SNP_P4_64163_44886066	NC_021163.1	Ca_kabuli_chr04	44886066	CC	TT	1946832664
SNP_P4_64164_44886259	NC_021163.1	Ca_kabuli_chr04	44886259	GG	AA	1946832666
SNP_P4_64165_44886284	NC_021163.1	Ca_kabuli_chr04	44886284	GG	AA	1946832668
SNP_P4_64166_44886307	NC_021163.1	Ca_kabuli_chr04	44886307	GG	TT	1946832670
SNP_P4_64167_44886364	NC_021163.1	Ca_kabuli_chr04	44886364	AA	GG	1946832672
SNP_P4_64168_44886373	NC_021163.1	Ca_kabuli_chr04	44886373	TT	CC	1946832674
SNP_P4_64169_44886377	NC_021163.1	Ca_kabuli_chr04	44886377	TT	CC	1946832677
SNP_P4_64170_44886392	NC_021163.1	Ca_kabuli_chr04	44886392	AA	GG	1946832679
SNP_P4_64172_44886584	NC_021163.1	Ca_kabuli_chr04	44886584	TT	AA	1946832681
SNP_P4_64173_44886741	NC_021163.1	Ca_kabuli_chr04	44886741	TT	GG	1946832683
SNP_P4_64174_44888917	NC_021163.1	Ca_kabuli_chr04	44888917	GG	CC	1946832685
SNP_P4_64175_44889413	NC_021163.1	Ca_kabuli_chr04	44889413	CC	TT	1946832687
SNP_P4_64176_44889415	NC_021163.1	Ca_kabuli_chr04	44889415	GG	TT	1946832689
SNP_P4_64177_44889438	NC_021163.1	Ca_kabuli_chr04	44889438	TT	CC	1946832692
SNP_P4_64180_44889549	NC_021163.1	Ca_kabuli_chr04	44889549	TT	GG	1946832694
SNP_P4_64181_44889773	NC_021163.1	Ca_kabuli_chr04	44889773	TT	AA	1946832697
SNP_P4_64182_44889846	NC_021163.1	Ca_kabuli_chr04	44889846	TT	GG	1946832699
SNP_P4_64183_44897354	NC_021163.1	Ca_kabuli_chr04	44897354	GG	TT	1946832701
SNP_P4_64185_44899413	NC_021163.1	Ca_kabuli_chr04	44899413	GG	AA	1946832703
SNP_P4_64186_44900047	NC_021163.1	Ca_kabuli_chr04	44900047	AA	GG	1946832704
SNP_P4_64187_44900068	NC_021163.1	Ca_kabuli_chr04	44900068	AA	GG	1946832706
SNP_P4_64189_44900124	NC_021163.1	Ca_kabuli_chr04	44900124	AA	GG	1946832708
SNP_P4_64190_44900335	NC_021163.1	Ca_kabuli_chr04	44900335	AA	TT	1946832710
SNP_P4_64192_44901199	NC_021163.1	Ca_kabuli_chr04	44901199	AA	GG	1946832712
SNP_P4_64193_44901201	NC_021163.1	Ca_kabuli_chr04	44901201	GG	CC	1946832714
SNP_P4_64194_44901383	NC_021163.1	Ca_kabuli_chr04	44901383	TT	CC	1946832717
SNP_P4_64195_44902192	NC_021163.1	Ca_kabuli_chr04	44902192	CC	TT	1946832719
SNP_P4_64197_44902393	NC_021163.1	Ca_kabuli_chr04	44902393	TT	CC	1946832721
SNP_P4_64198_44902417	NC_021163.1	Ca_kabuli_chr04	44902417	TT	AA	1946832723

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_64200_44902526	NC_021163.1	Ca_kabuli_chr04	44902526	AA	TT	1946832727
SNP_P4_64201_44903363	NC_021163.1	Ca_kabuli_chr04	44903363	GG	AA	1946832729
SNP_P4_64202_44903371	NC_021163.1	Ca_kabuli_chr04	44903371	CC	AA	1946832731
SNP_P4_64204_44905273	NC_021163.1	Ca_kabuli_chr04	44905273	GG	CC	1946832733
SNP_P4_64205_44905290	NC_021163.1	Ca_kabuli_chr04	44905290	GG	AA	1946832736
SNP_P4_64206_44905317	NC_021163.1	Ca_kabuli_chr04	44905317	AA	TT	1946832738
SNP_P4_64207_44905385	NC_021163.1	Ca_kabuli_chr04	44905385	AA	GG	1946832740
SNP_P4_64208_44905447	NC_021163.1	Ca_kabuli_chr04	44905447	GG	AA	1946832742
SNP_P4_64209_44905811	NC_021163.1	Ca_kabuli_chr04	44905811	GG	CC	1946832745
SNP_P4_64210_44905814	NC_021163.1	Ca_kabuli_chr04	44905814	TT	CC	1946832746
SNP_P4_64211_44905818	NC_021163.1	Ca_kabuli_chr04	44905818	GG	AA	1946832749
SNP_P4_64212_44905844	NC_021163.1	Ca_kabuli_chr04	44905844	GG	AA	1946832750
SNP_P4_64213_44906153	NC_021163.1	Ca_kabuli_chr04	44906153	GG	TT	1946832751
SNP_P4_64214_44906820	NC_021163.1	Ca_kabuli_chr04	44906820	AA	GG	1946832752
SNP_P4_64215_44907077	NC_021163.1	Ca_kabuli_chr04	44907077	TT	AA	1946832754
SNP_P4_64216_44907108	NC_021163.1	Ca_kabuli_chr04	44907108	CC	TT	1946832755
SNP_P4_64217_44907530	NC_021163.1	Ca_kabuli_chr04	44907530	CC	TT	1946832757
SNP_P4_64218_44907549	NC_021163.1	Ca_kabuli_chr04	44907549	GG	AA	1946832760
SNP_P4_64219_44907566	NC_021163.1	Ca_kabuli_chr04	44907566	GG	AA	1946832762
SNP_P4_64220_44907913	NC_021163.1	Ca_kabuli_chr04	44907913	CC	TT	1946832764
SNP_P4_64221_44908105	NC_021163.1	Ca_kabuli_chr04	44908105	GG	TT	1946832766
SNP_P4_64222_44908387	NC_021163.1	Ca_kabuli_chr04	44908387	AA	TT	1946832768
SNP_P4_64223_44909712	NC_021163.1	Ca_kabuli_chr04	44909712	AA	TT	1946832770
SNP_P4_64225_44909762	NC_021163.1	Ca_kabuli_chr04	44909762	CC	TT	1946832772
SNP_P4_64226_44913246	NC_021163.1	Ca_kabuli_chr04	44913246	AA	TT	1946832774
SNP_P4_64227_44913269	NC_021163.1	Ca_kabuli_chr04	44913269	CC	TT	1946832776
SNP_P4_64228_44913595	NC_021163.1	Ca_kabuli_chr04	44913595	CC	TT	1946832778
SNP_P4_64229_44913724	NC_021163.1	Ca_kabuli_chr04	44913724	CC	AA	1946832780
SNP_P4_64230_44913762	NC_021163.1	Ca_kabuli_chr04	44913762	AA	GG	1946832782
SNP_P4_64231_44914001	NC_021163.1	Ca_kabuli_chr04	44914001	GG	AA	1946832784
SNP_P4_64232_44914008	NC_021163.1	Ca_kabuli_chr04	44914008	GG	AA	1946832786
SNP_P4_64233_44914282	NC_021163.1	Ca_kabuli_chr04	44914282	AA	GG	1946832788
SNP_P4_64234_44916088	NC_021163.1	Ca_kabuli_chr04	44916088	AA	GG	1946832790
SNP_P4_64235_44916101	NC_021163.1	Ca_kabuli_chr04	44916101	GG	AA	1946832792
SNP_P4_64236_44916107	NC_021163.1	Ca_kabuli_chr04	44916107	GG	AA	1946832794
SNP_P4_64237_44917070	NC_021163.1	Ca_kabuli_chr04	44917070	TT	GG	1946832796
SNP_P4_64238_44917094	NC_021163.1	Ca_kabuli_chr04	44917094	AA	GG	1946832798
SNP_P4_64241_44917559	NC_021163.1	Ca_kabuli_chr04	44917559	CC	GG	1946832800
SNP_P4_64242_44917890	NC_021163.1	Ca_kabuli_chr04	44917890	AA	GG	1946832802
SNP_P4_64243_44918666	NC_021163.1	Ca_kabuli_chr04	44918666	TT	CC	1946832804
SNP_P4_64244_44918675	NC_021163.1	Ca_kabuli_chr04	44918675	TT	AA	1946832807

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_64246_44918682	NC_021163.1	Ca_kabuli_chr04	44918682	AA	TT	1946832811
SNP_P4_64247_44918699	NC_021163.1	Ca_kabuli_chr04	44918699	AA	CC	1946832813
SNP_P4_64248_44918708	NC_021163.1	Ca_kabuli_chr04	44918708	TT	CC	1946832815
SNP_P4_64249_44918751	NC_021163.1	Ca_kabuli_chr04	44918751	AA	GG	1946832817
SNP_P4_64250_44919017	NC_021163.1	Ca_kabuli_chr04	44919017	TT	CC	1946832819
SNP_P4_64251_44920028	NC_021163.1	Ca_kabuli_chr04	44920028	GG	AA	1946832821
SNP_P4_64252_44920034	NC_021163.1	Ca_kabuli_chr04	44920034	TT	CC	1946832823
SNP_P4_64253_44920036	NC_021163.1	Ca_kabuli_chr04	44920036	GG	AA	1946832825
SNP_P4_64254_44920053	NC_021163.1	Ca_kabuli_chr04	44920053	TT	CC	1946832826
SNP_P4_64255_44920061	NC_021163.1	Ca_kabuli_chr04	44920061	TT	CC	1946832828
SNP_P4_64256_44920081	NC_021163.1	Ca_kabuli_chr04	44920081	GG	AA	1946832830
SNP_P4_64257_44920085	NC_021163.1	Ca_kabuli_chr04	44920085	AA	GG	1946832833
SNP_P4_64258_44920630	NC_021163.1	Ca_kabuli_chr04	44920630	CC	AA	1946832835
SNP_P4_64259_44920764	NC_021163.1	Ca_kabuli_chr04	44920764	TT	CC	1946832837
SNP_P4_64260_44920772	NC_021163.1	Ca_kabuli_chr04	44920772	GG	AA	1946832839
SNP_P4_64261_44920785	NC_021163.1	Ca_kabuli_chr04	44920785	GG	AA	1946832841
SNP_P4_64262_44922212	NC_021163.1	Ca_kabuli_chr04	44922212	GG	AA	1946832843
SNP_P4_64264_44922339	NC_021163.1	Ca_kabuli_chr04	44922339	TT	CC	1946832845
SNP_P4_64266_44923592	NC_021163.1	Ca_kabuli_chr04	44923592	CC	TT	1946832847
SNP_P4_64267_44923793	NC_021163.1	Ca_kabuli_chr04	44923793	GG	AA	1946832849
SNP_P4_64268_44923869	NC_021163.1	Ca_kabuli_chr04	44923869	AA	GG	1946832851
SNP_P4_64269_44924031	NC_021163.1	Ca_kabuli_chr04	44924031	AA	TT	1946832853
SNP_P4_64270_44924038	NC_021163.1	Ca_kabuli_chr04	44924038	TT	CC	1946832855
SNP_P4_64271_44924235	NC_021163.1	Ca_kabuli_chr04	44924235	TT	CC	1946832857
SNP_P4_64272_44924398	NC_021163.1	Ca_kabuli_chr04	44924398	GG	AA	1946832859
SNP_P4_64273_44924405	NC_021163.1	Ca_kabuli_chr04	44924405	GG	AA	1946832861
SNP_P4_64274_44924424	NC_021163.1	Ca_kabuli_chr04	44924424	AA	TT	1946832863
SNP_P4_64275_44924431	NC_021163.1	Ca_kabuli_chr04	44924431	AA	CC	1946832865
SNP_P4_64276_44924592	NC_021163.1	Ca_kabuli_chr04	44924592	GG	AA	1946832867
SNP_P4_64277_44924627	NC_021163.1	Ca_kabuli_chr04	44924627	TT	AA	1946832869
SNP_P4_64278_44926132	NC_021163.1	Ca_kabuli_chr04	44926132	CC	GG	1946832871
SNP_P4_64279_44926168	NC_021163.1	Ca_kabuli_chr04	44926168	GG	AA	1946832873
SNP_P4_64281_44927591	NC_021163.1	Ca_kabuli_chr04	44927591	CC	TT	1946832875
SNP_P4_64282_44927625	NC_021163.1	Ca_kabuli_chr04	44927625	TT	CC	1946832877
SNP_P4_64283_44927676	NC_021163.1	Ca_kabuli_chr04	44927676	TT	CC	1946832879
SNP_P4_64284_44928136	NC_021163.1	Ca_kabuli_chr04	44928136	CC	TT	1946832881
SNP_P4_64285_44928156	NC_021163.1	Ca_kabuli_chr04	44928156	GG	AA	1946832883
SNP_P4_64286_44928231	NC_021163.1	Ca_kabuli_chr04	44928231	TT	GG	1946832885
SNP_P4_64287_44928275	NC_021163.1	Ca_kabuli_chr04	44928275	AA	CC	1946832887
SNP_P4_64288_44930661	NC_021163.1	Ca_kabuli_chr04	44930661	TT	CC	1946832889
SNP_P4_64289_44932136	NC_021163.1	Ca_kabuli_chr04	44932136	CC	TT	1946832891

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_64290_44932485	NC_021163.1	Ca_kabuli_chr04	44932485	AA	GG	1946832893
SNP_P4_64291_44932486	NC_021163.1	Ca_kabuli_chr04	44932486	GG	AA	1946832895
SNP_P4_64292_44932536	NC_021163.1	Ca_kabuli_chr04	44932536	CC	TT	1946832897
SNP_P4_64293_44932555	NC_021163.1	Ca_kabuli_chr04	44932555	AA	GG	1946832899
SNP_P4_64294_44932813	NC_021163.1	Ca_kabuli_chr04	44932813	GG	AA	1946832901
SNP_P4_64295_44932822	NC_021163.1	Ca_kabuli_chr04	44932822	AA	TT	1946832903
SNP_P4_64296_44932854	NC_021163.1	Ca_kabuli_chr04	44932854	TT	CC	1946832905
SNP_P4_64297_44932871	NC_021163.1	Ca_kabuli_chr04	44932871	TT	GG	1946832907
SNP_P4_64298_44932881	NC_021163.1	Ca_kabuli_chr04	44932881	GG	AA	1946832909
SNP_P4_64299_44932889	NC_021163.1	Ca_kabuli_chr04	44932889	CC	TT	1946832911
SNP_P4_64300_44933083	NC_021163.1	Ca_kabuli_chr04	44933083	AA	CC	1946832913
SNP_P4_64302_44934355	NC_021163.1	Ca_kabuli_chr04	44934355	GG	AA	1946832915
SNP_P4_64303_44934367	NC_021163.1	Ca_kabuli_chr04	44934367	TT	CC	1946832917
SNP_P4_64304_44934376	NC_021163.1	Ca_kabuli_chr04	44934376	CC	TT	1946832919
SNP_P4_64305_44934459	NC_021163.1	Ca_kabuli_chr04	44934459	CC	GG	1946832921
SNP_P4_64306_44934750	NC_021163.1	Ca_kabuli_chr04	44934750	CC	AA	1946832923
SNP_P4_64307_44935023	NC_021163.1	Ca_kabuli_chr04	44935023	GG	CC	1946832926
SNP_P4_64308_44935794	NC_021163.1	Ca_kabuli_chr04	44935794	AA	GG	1946832927
SNP_P4_64309_44936710	NC_021163.1	Ca_kabuli_chr04	44936710	TT	GG	1946832929
SNP_P4_64310_44936793	NC_021163.1	Ca_kabuli_chr04	44936793	AA	GG	1946832931
SNP_P4_64311_44936854	NC_021163.1	Ca_kabuli_chr04	44936854	AA	GG	1946832933
SNP_P4_64312_44936918	NC_021163.1	Ca_kabuli_chr04	44936918	CC	TT	1946832935
SNP_P4_64314_44937058	NC_021163.1	Ca_kabuli_chr04	44937058	CC	TT	1946832937
SNP_P4_64315_44937096	NC_021163.1	Ca_kabuli_chr04	44937096	TT	CC	1946832939
SNP_P4_64316_44937151	NC_021163.1	Ca_kabuli_chr04	44937151	AA	TT	1946832941
SNP_P4_64318_44938390	NC_021163.1	Ca_kabuli_chr04	44938390	AA	GG	1946832943
SNP_P4_64319_44938809	NC_021163.1	Ca_kabuli_chr04	44938809	TT	CC	1946832945
SNP_P4_64320_44939343	NC_021163.1	Ca_kabuli_chr04	44939343	CC	TT	1946832947
SNP_P4_64321_44939366	NC_021163.1	Ca_kabuli_chr04	44939366	AA	GG	1946832949
SNP_P4_64322_44939374	NC_021163.1	Ca_kabuli_chr04	44939374	CC	TT	1946832951
SNP_P4_64323_44939577	NC_021163.1	Ca_kabuli_chr04	44939577	AA	GG	1946832953
SNP_P4_64324_44939579	NC_021163.1	Ca_kabuli_chr04	44939579	AA	GG	1946832955
SNP_P4_64325_44939587	NC_021163.1	Ca_kabuli_chr04	44939587	TT	CC	1946832957
SNP_P4_64326_44939615	NC_021163.1	Ca_kabuli_chr04	44939615	TT	AA	1946832959
SNP_P4_64328_44939729	NC_021163.1	Ca_kabuli_chr04	44939729	AA	GG	1946832961
SNP_P4_64329_44939741	NC_021163.1	Ca_kabuli_chr04	44939741	AA	GG	1946832962
SNP_P4_64330_44939745	NC_021163.1	Ca_kabuli_chr04	44939745	TT	GG	1946832964
SNP_P4_64331_44939943	NC_021163.1	Ca_kabuli_chr04	44939943	TT	CC	1946832966
SNP_P4_64332_44939946	NC_021163.1	Ca_kabuli_chr04	44939946	CC	TT	1946832968
SNP_P4_64333_44939965	NC_021163.1	Ca_kabuli_chr04	44939965	GG	TT	1946832970
SNP_P4_64334_44939993	NC_021163.1	Ca_kabuli_chr04	44939993	GG	AA	1946832972
SNP_P4_64335_44940015	NC_021163.1	Ca_kabuli_chr04	44940015	GG	TT	1946832974

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_64336_44942866	NC_021163.1	Ca_kabuli_chr04	44942866	GG	AA	1946832976
SNP_P4_64337_44942868	NC_021163.1	Ca_kabuli_chr04	44942868	TT	AA	1946832978
SNP_P4_64338_44942880	NC_021163.1	Ca_kabuli_chr04	44942880	TT	CC	1946832980
SNP_P4_64339_44942895	NC_021163.1	Ca_kabuli_chr04	44942895	TT	GG	1946832982
SNP_P4_64341_44944490	NC_021163.1	Ca_kabuli_chr04	44944490	AA	CC	1946832984
SNP_P4_64342_44944584	NC_021163.1	Ca_kabuli_chr04	44944584	AA	TT	1946832986
SNP_P4_64343_44944586	NC_021163.1	Ca_kabuli_chr04	44944586	GG	CC	1946832988
SNP_P4_64344_44944590	NC_021163.1	Ca_kabuli_chr04	44944590	AA	GG	1946832990
SNP_P4_64346_44945037	NC_021163.1	Ca_kabuli_chr04	44945037	AA	TT	1946832992
SNP_P4_64347_44945702	NC_021163.1	Ca_kabuli_chr04	44945702	TT	CC	1946832994
SNP_P4_64348_44945713	NC_021163.1	Ca_kabuli_chr04	44945713	CC	TT	1946832996
SNP_P4_64349_44945932	NC_021163.1	Ca_kabuli_chr04	44945932	AA	GG	1946832998
SNP_P4_64350_44945972	NC_021163.1	Ca_kabuli_chr04	44945972	TT	CC	1946833000
SNP_P4_64352_44947093	NC_021163.1	Ca_kabuli_chr04	44947093	GG	CC	1946833002
SNP_P4_64353_44947939	NC_021163.1	Ca_kabuli_chr04	44947939	CC	TT	1946833004
SNP_P4_64354_44947940	NC_021163.1	Ca_kabuli_chr04	44947940	GG	AA	1946833006
SNP_P4_64355_44947941	NC_021163.1	Ca_kabuli_chr04	44947941	AA	GG	1946833008
SNP_P4_64356_44947952	NC_021163.1	Ca_kabuli_chr04	44947952	CC	TT	1946833010
SNP_P4_64357_44948051	NC_021163.1	Ca_kabuli_chr04	44948051	TT	CC	1946833012
SNP_P4_64358_44948861	NC_021163.1	Ca_kabuli_chr04	44948861	AA	GG	1946833015
SNP_P4_64359_44949045	NC_021163.1	Ca_kabuli_chr04	44949045	CC	TT	1946833017
SNP_P4_64360_44949061	NC_021163.1	Ca_kabuli_chr04	44949061	TT	AA	1946833019
SNP_P4_64361_44949079	NC_021163.1	Ca_kabuli_chr04	44949079	CC	GG	1946833021
SNP_P4_64362_44949081	NC_021163.1	Ca_kabuli_chr04	44949081	CC	AA	1946833023
SNP_P4_64363_44949082	NC_021163.1	Ca_kabuli_chr04	44949082	GG	TT	1946833025
SNP_P4_64364_44949106	NC_021163.1	Ca_kabuli_chr04	44949106	CC	TT	1946833027
SNP_P4_64366_44949277	NC_021163.1	Ca_kabuli_chr04	44949277	AA	TT	1946833029
SNP_P4_64367_44949619	NC_021163.1	Ca_kabuli_chr04	44949619	TT	CC	1946833031
SNP_P4_64368_44949620	NC_021163.1	Ca_kabuli_chr04	44949620	CC	AA	1946833033
SNP_P4_64369_44950094	NC_021163.1	Ca_kabuli_chr04	44950094	AA	GG	1946833035
SNP_P4_64370_44950138	NC_021163.1	Ca_kabuli_chr04	44950138	GG	AA	1946833037
SNP_P4_64371_44950413	NC_021163.1	Ca_kabuli_chr04	44950413	CC	AA	1946833039
SNP_P4_64372_44950454	NC_021163.1	Ca_kabuli_chr04	44950454	CC	AA	1946833042
SNP_P4_64373_44960338	NC_021163.1	Ca_kabuli_chr04	44960338	AA	GG	1946833044
SNP_P4_64374_44963902	NC_021163.1	Ca_kabuli_chr04	44963902	GG	AA	1946833046
SNP_P4_64377_44973703	NC_021163.1	Ca_kabuli_chr04	44973703	TT	GG	1946833048
SNP_P4_64378_44988424	NC_021163.1	Ca_kabuli_chr04	44988424	GG	AA	1946833050
SNP_P4_64379_45000653	NC_021163.1	Ca_kabuli_chr04	45000653	GG	TT	1946833052
SNP_P4_64380_45007587	NC_021163.1	Ca_kabuli_chr04	45007587	TT	CC	1946833054
SNP_P4_64381_45010189	NC_021163.1	Ca_kabuli_chr04	45010189	AA	TT	1946833056
SNP_P4_64382_45012236	NC_021163.1	Ca_kabuli_chr04	45012236	AA	GG	1946833058
SNP_P4_64383_45022634	NC_021163.1	Ca_kabuli_chr04	45022634	GG	CC	1946833060

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_64386_45048344	NC_021163.1	Ca_kabuli_chr04	45048344	AA	TT	1946833064
SNP_P4_64388_45053008	NC_021163.1	Ca_kabuli_chr04	45053008	TT	CC	1946833066
SNP_P4_64391_45054227	NC_021163.1	Ca_kabuli_chr04	45054227	AA	GG	1946833068
SNP_P4_64392_45054970	NC_021163.1	Ca_kabuli_chr04	45054970	AA	GG	1946833070
SNP_P4_64393_45057704	NC_021163.1	Ca_kabuli_chr04	45057704	GG	AA	1946833072
SNP_P4_64394_45057834	NC_021163.1	Ca_kabuli_chr04	45057834	GG	AA	1946833074
SNP_P4_64395_45057838	NC_021163.1	Ca_kabuli_chr04	45057838	AA	GG	1946833076
SNP_P4_64396_45057853	NC_021163.1	Ca_kabuli_chr04	45057853	CC	TT	1946833078
SNP_P4_64397_45057874	NC_021163.1	Ca_kabuli_chr04	45057874	AA	GG	1946833080
SNP_P4_64398_45057879	NC_021163.1	Ca_kabuli_chr04	45057879	CC	TT	1946833082
SNP_P4_64400_45058025	NC_021163.1	Ca_kabuli_chr04	45058025	CC	TT	1946833084
SNP_P4_64401_45058026	NC_021163.1	Ca_kabuli_chr04	45058026	AA	TT	1946833087
SNP_P4_64402_45058261	NC_021163.1	Ca_kabuli_chr04	45058261	AA	GG	1946833089
SNP_P4_64403_45058286	NC_021163.1	Ca_kabuli_chr04	45058286	GG	AA	1946833091
SNP_P4_64404_45058301	NC_021163.1	Ca_kabuli_chr04	45058301	AA	GG	1946833093
SNP_P4_64406_45060127	NC_021163.1	Ca_kabuli_chr04	45060127	AA	CC	1946833095
SNP_P4_64407_45060187	NC_021163.1	Ca_kabuli_chr04	45060187	TT	CC	1946833097
SNP_P4_64408_45060194	NC_021163.1	Ca_kabuli_chr04	45060194	AA	TT	1946833099
SNP_P4_64409_45060224	NC_021163.1	Ca_kabuli_chr04	45060224	CC	AA	1946833101
SNP_P4_64410_45060493	NC_021163.1	Ca_kabuli_chr04	45060493	AA	GG	1946833103
SNP_P4_64411_45061305	NC_021163.1	Ca_kabuli_chr04	45061305	TT	GG	1946833105
SNP_P4_64412_45061348	NC_021163.1	Ca_kabuli_chr04	45061348	GG	AA	1946833107
SNP_P4_64413_45061971	NC_021163.1	Ca_kabuli_chr04	45061971	CC	TT	1946833109
SNP_P4_64414_45062089	NC_021163.1	Ca_kabuli_chr04	45062089	AA	CC	1946833111
SNP_P4_64415_45062159	NC_021163.1	Ca_kabuli_chr04	45062159	CC	AA	1946833113
SNP_P4_64417_45062234	NC_021163.1	Ca_kabuli_chr04	45062234	CC	AA	1946833115
SNP_P4_64418_45062394	NC_021163.1	Ca_kabuli_chr04	45062394	AA	GG	1946833117
SNP_P4_64419_45062404	NC_021163.1	Ca_kabuli_chr04	45062404	TT	CC	1946833119
SNP_P4_64420_45063572	NC_021163.1	Ca_kabuli_chr04	45063572	GG	AA	1946833121
SNP_P4_64422_45065318	NC_021163.1	Ca_kabuli_chr04	45065318	CC	TT	1946833123
SNP_P4_64423_45065335	NC_021163.1	Ca_kabuli_chr04	45065335	CC	TT	1946833125
SNP_P4_64424_45065365	NC_021163.1	Ca_kabuli_chr04	45065365	AA	TT	1946833127
SNP_P4_64425_45065408	NC_021163.1	Ca_kabuli_chr04	45065408	CC	TT	1946833129
SNP_P4_64426_45065488	NC_021163.1	Ca_kabuli_chr04	45065488	GG	TT	1946833131
SNP_P4_64427_45065563	NC_021163.1	Ca_kabuli_chr04	45065563	TT	CC	1946833133
SNP_P4_64429_45065658	NC_021163.1	Ca_kabuli_chr04	45065658	CC	TT	1946833135
SNP_P4_64431_45065795	NC_021163.1	Ca_kabuli_chr04	45065795	GG	AA	1946833137
SNP_P4_64432_45067638	NC_021163.1	Ca_kabuli_chr04	45067638	AA	GG	1946833139
SNP_P4_64433_45067910	NC_021163.1	Ca_kabuli_chr04	45067910	TT	GG	1946833141
SNP_P4_64434_45068236	NC_021163.1	Ca_kabuli_chr04	45068236	CC	TT	1946833143
SNP_P4_64435_45068331	NC_021163.1	Ca_kabuli_chr04	45068331	CC	TT	1946833145

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_64437_45072519	NC_021163.1	Ca_kabuli_chr04	45072519	CC	TT	1946833149
SNP_P4_64438_45073966	NC_021163.1	Ca_kabuli_chr04	45073966	TT	CC	1946833151
SNP_P4_64439_45073985	NC_021163.1	Ca_kabuli_chr04	45073985	GG	CC	1946833153
SNP_P4_64440_45075226	NC_021163.1	Ca_kabuli_chr04	45075226	GG	AA	1946833155
SNP_P4_64441_45075548	NC_021163.1	Ca_kabuli_chr04	45075548	AA	TT	1946833157
SNP_P4_64442_45075565	NC_021163.1	Ca_kabuli_chr04	45075565	CC	TT	1946833159
SNP_P4_64443_45075576	NC_021163.1	Ca_kabuli_chr04	45075576	GG	AA	1946833161
SNP_P4_64444_45075584	NC_021163.1	Ca_kabuli_chr04	45075584	AA	GG	1946833163
SNP_P4_64445_45075837	NC_021163.1	Ca_kabuli_chr04	45075837	GG	AA	1946833165
SNP_P4_64446_45075860	NC_021163.1	Ca_kabuli_chr04	45075860	AA	CC	1946833167
SNP_P4_64447_45076186	NC_021163.1	Ca_kabuli_chr04	45076186	TT	CC	1946833169
SNP_P4_64448_45076219	NC_021163.1	Ca_kabuli_chr04	45076219	CC	TT	1946833172
SNP_P4_64449_45076232	NC_021163.1	Ca_kabuli_chr04	45076232	CC	GG	1946833174
SNP_P4_64450_45076242	NC_021163.1	Ca_kabuli_chr04	45076242	TT	CC	1946833176
SNP_P4_64451_45076246	NC_021163.1	Ca_kabuli_chr04	45076246	AA	CC	1946833178
SNP_P4_64454_45076917	NC_021163.1	Ca_kabuli_chr04	45076917	AA	CC	1946833180
SNP_P4_64455_45077121	NC_021163.1	Ca_kabuli_chr04	45077121	AA	GG	1946833182
SNP_P4_64456_45077421	NC_021163.1	Ca_kabuli_chr04	45077421	GG	CC	1946833184
SNP_P4_64457_45077423	NC_021163.1	Ca_kabuli_chr04	45077423	CC	TT	1946833186
SNP_P4_64458_45077443	NC_021163.1	Ca_kabuli_chr04	45077443	CC	GG	1946833188
SNP_P4_64459_45078520	NC_021163.1	Ca_kabuli_chr04	45078520	TT	CC	1946833190
SNP_P4_64460_45078689	NC_021163.1	Ca_kabuli_chr04	45078689	AA	CC	1946833192
SNP_P4_64461_45078709	NC_021163.1	Ca_kabuli_chr04	45078709	TT	AA	1946833195
SNP_P4_64462_45078747	NC_021163.1	Ca_kabuli_chr04	45078747	TT	CC	1946833197
SNP_P4_64463_45078764	NC_021163.1	Ca_kabuli_chr04	45078764	GG	CC	1946833198
SNP_P4_64464_45078773	NC_021163.1	Ca_kabuli_chr04	45078773	CC	TT	1946833200
SNP_P4_64465_45078775	NC_021163.1	Ca_kabuli_chr04	45078775	AA	GG	1946833202
SNP_P4_64466_45078807	NC_021163.1	Ca_kabuli_chr04	45078807	TT	GG	1946833204
SNP_P4_64467_45078843	NC_021163.1	Ca_kabuli_chr04	45078843	AA	GG	1946833206
SNP_P4_64468_45078844	NC_021163.1	Ca_kabuli_chr04	45078844	AA	GG	1946833208
SNP_P4_64469_45078877	NC_021163.1	Ca_kabuli_chr04	45078877	AA	GG	1946833210
SNP_P4_64470_45078890	NC_021163.1	Ca_kabuli_chr04	45078890	AA	GG	1946833213
SNP_P4_64471_45079043	NC_021163.1	Ca_kabuli_chr04	45079043	GG	AA	1946833214
SNP_P4_64472_45080306	NC_021163.1	Ca_kabuli_chr04	45080306	TT	CC	1946833216
SNP_P4_64473_45080327	NC_021163.1	Ca_kabuli_chr04	45080327	TT	CC	1946833218
SNP_P4_64474_45081275	NC_021163.1	Ca_kabuli_chr04	45081275	GG	AA	1946833220
SNP_P4_64476_45084828	NC_021163.1	Ca_kabuli_chr04	45084828	GG	CC	1946833223
SNP_P4_64477_45089502	NC_021163.1	Ca_kabuli_chr04	45089502	GG	TT	1946833224
SNP_P4_64478_45089570	NC_021163.1	Ca_kabuli_chr04	45089570	TT	CC	1946833226
SNP_P4_64479_45092098	NC_021163.1	Ca_kabuli_chr04	45092098	GG	AA	1946833228
SNP_P4_64480_45092113	NC_021163.1	Ca_kabuli_chr04	45092113	TT	GG	1946833230

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_64482_45092244	NC_021163.1	Ca_kabuli_chr04	45092244	CC	AA	1946833234
SNP_P4_64483_45092265	NC_021163.1	Ca_kabuli_chr04	45092265	GG	AA	1946833236
SNP_P4_64484_45092725	NC_021163.1	Ca_kabuli_chr04	45092725	TT	AA	1946833238
SNP_P4_64485_45092726	NC_021163.1	Ca_kabuli_chr04	45092726	TT	AA	1946833240
SNP_P4_64487_45094365	NC_021163.1	Ca_kabuli_chr04	45094365	AA	GG	1946833242
SNP_P4_64488_45095000	NC_021163.1	Ca_kabuli_chr04	45095000	TT	AA	1946833244
SNP_P4_64489_45096152	NC_021163.1	Ca_kabuli_chr04	45096152	TT	AA	1946833246
SNP_P4_64490_45096315	NC_021163.1	Ca_kabuli_chr04	45096315	GG	AA	1946833248
SNP_P4_64491_45098074	NC_021163.1	Ca_kabuli_chr04	45098074	GG	CC	1946833250
SNP_P4_64492_45098250	NC_021163.1	Ca_kabuli_chr04	45098250	CC	TT	1946833252
SNP_P4_64493_45098264	NC_021163.1	Ca_kabuli_chr04	45098264	GG	AA	1946833254
SNP_P4_64495_45098641	NC_021163.1	Ca_kabuli_chr04	45098641	CC	TT	1946833256
SNP_P4_64496_45099373	NC_021163.1	Ca_kabuli_chr04	45099373	CC	TT	1946833258
SNP_P4_64498_45101416	NC_021163.1	Ca_kabuli_chr04	45101416	GG	AA	1946833260
SNP_P4_64499_45101426	NC_021163.1	Ca_kabuli_chr04	45101426	GG	AA	1946833262
SNP_P4_64500_45101999	NC_021163.1	Ca_kabuli_chr04	45101999	GG	CC	1946833264
SNP_P4_64501_45102220	NC_021163.1	Ca_kabuli_chr04	45102220	GG	AA	1946833266
SNP_P4_64502_45102279	NC_021163.1	Ca_kabuli_chr04	45102279	AA	GG	1946833268
SNP_P4_64503_45102302	NC_021163.1	Ca_kabuli_chr04	45102302	CC	TT	1946833270
SNP_P4_64504_45102323	NC_021163.1	Ca_kabuli_chr04	45102323	CC	TT	1946833273
SNP_P4_64505_45102369	NC_021163.1	Ca_kabuli_chr04	45102369	AA	GG	1946833275
SNP_P4_64506_45102437	NC_021163.1	Ca_kabuli_chr04	45102437	AA	CC	1946833277
SNP_P4_64507_45103029	NC_021163.1	Ca_kabuli_chr04	45103029	TT	CC	1946833279
SNP_P4_64508_45105428	NC_021163.1	Ca_kabuli_chr04	45105428	TT	AA	1946833281
SNP_P4_64509_45106127	NC_021163.1	Ca_kabuli_chr04	45106127	GG	AA	1946833283
SNP_P4_64510_45107822	NC_021163.1	Ca_kabuli_chr04	45107822	AA	GG	1946833285
SNP_P4_64512_45108476	NC_021163.1	Ca_kabuli_chr04	45108476	TT	CC	1946833287
SNP_P4_64513_45108493	NC_021163.1	Ca_kabuli_chr04	45108493	TT	CC	1946833289
SNP_P4_64514_45108868	NC_021163.1	Ca_kabuli_chr04	45108868	TT	AA	1946833290
SNP_P4_64516_45108915	NC_021163.1	Ca_kabuli_chr04	45108915	CC	TT	1946833293
SNP_P4_64518_45112423	NC_021163.1	Ca_kabuli_chr04	45112423	CC	TT	1946833294
SNP_P4_64519_45112437	NC_021163.1	Ca_kabuli_chr04	45112437	AA	TT	1946833296
SNP_P4_64520_45112451	NC_021163.1	Ca_kabuli_chr04	45112451	GG	AA	1946833298
SNP_P4_64521_45112834	NC_021163.1	Ca_kabuli_chr04	45112834	TT	CC	1946833300
SNP_P4_64522_45113178	NC_021163.1	Ca_kabuli_chr04	45113178	GG	AA	1946833302
SNP_P4_64523_45113847	NC_021163.1	Ca_kabuli_chr04	45113847	CC	GG	1946833304
SNP_P4_64525_45114638	NC_021163.1	Ca_kabuli_chr04	45114638	CC	TT	1946833306
SNP_P4_64526_45114655	NC_021163.1	Ca_kabuli_chr04	45114655	GG	TT	1946833308
SNP_P4_64527_45114662	NC_021163.1	Ca_kabuli_chr04	45114662	GG	CC	1946833310
SNP_P4_64528_45114828	NC_021163.1	Ca_kabuli_chr04	45114828	AA	GG	1946833312
SNP_P4_64529_45114914	NC_021163.1	Ca_kabuli_chr04	45114914	AA	GG	1946833314

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_64531_45114932	NC_021163.1	Ca_kabuli_chr04	45114932	GG	AA	1946833318
SNP_P4_64532_45114996	NC_021163.1	Ca_kabuli_chr04	45114996	TT	CC	1946833321
SNP_P4_64533_45115268	NC_021163.1	Ca_kabuli_chr04	45115268	AA	GG	1946833323
SNP_P4_64535_45116039	NC_021163.1	Ca_kabuli_chr04	45116039	GG	TT	1946833325
SNP_P4_64536_45116074	NC_021163.1	Ca_kabuli_chr04	45116074	GG	AA	1946833327
SNP_P4_64537_45116400	NC_021163.1	Ca_kabuli_chr04	45116400	TT	AA	1946833329
SNP_P4_64538_45116902	NC_021163.1	Ca_kabuli_chr04	45116902	CC	TT	1946833331
SNP_P4_64539_45118276	NC_021163.1	Ca_kabuli_chr04	45118276	TT	CC	1946833333
SNP_P4_64540_45118832	NC_021163.1	Ca_kabuli_chr04	45118832	CC	TT	1946833335
SNP_P4_64542_45118904	NC_021163.1	Ca_kabuli_chr04	45118904	TT	AA	1946833338
SNP_P4_64543_45119794	NC_021163.1	Ca_kabuli_chr04	45119794	TT	CC	1946833340
SNP_P4_64544_45119861	NC_021163.1	Ca_kabuli_chr04	45119861	CC	GG	1946833342
SNP_P4_64545_45119912	NC_021163.1	Ca_kabuli_chr04	45119912	CC	TT	1946833344
SNP_P4_64546_45120560	NC_021163.1	Ca_kabuli_chr04	45120560	CC	TT	1946833347
SNP_P4_64549_45122875	NC_021163.1	Ca_kabuli_chr04	45122875	CC	TT	1946833349
SNP_P4_64550_45124613	NC_021163.1	Ca_kabuli_chr04	45124613	TT	GG	1946833351
SNP_P4_64551_45124616	NC_021163.1	Ca_kabuli_chr04	45124616	AA	GG	1946833353
SNP_P4_64552_45124625	NC_021163.1	Ca_kabuli_chr04	45124625	TT	CC	1946833355
SNP_P4_64553_45125052	NC_021163.1	Ca_kabuli_chr04	45125052	CC	TT	1946833357
SNP_P4_64554_45126334	NC_021163.1	Ca_kabuli_chr04	45126334	CC	TT	1946833360
SNP_P4_64556_45127987	NC_021163.1	Ca_kabuli_chr04	45127987	AA	TT	1946833362
SNP_P4_64557_45128594	NC_021163.1	Ca_kabuli_chr04	45128594	TT	CC	1946833364
SNP_P4_64558_45128842	NC_021163.1	Ca_kabuli_chr04	45128842	AA	GG	1946833366
SNP_P4_64559_45128855	NC_021163.1	Ca_kabuli_chr04	45128855	GG	CC	1946833368
SNP_P4_64560_45128879	NC_021163.1	Ca_kabuli_chr04	45128879	CC	TT	1946833370
SNP_P4_64561_45128884	NC_021163.1	Ca_kabuli_chr04	45128884	AA	TT	1946833373
SNP_P4_64562_45129095	NC_021163.1	Ca_kabuli_chr04	45129095	TT	GG	1946833375
SNP_P4_64563_45130800	NC_021163.1	Ca_kabuli_chr04	45130800	AA	TT	1946833377
SNP_P4_64564_45130982	NC_021163.1	Ca_kabuli_chr04	45130982	TT	GG	1946833379
SNP_P4_64565_45131359	NC_021163.1	Ca_kabuli_chr04	45131359	GG	AA	1946833381
SNP_P4_64566_45131372	NC_021163.1	Ca_kabuli_chr04	45131372	AA	TT	1946833383
SNP_P4_64567_45131430	NC_021163.1	Ca_kabuli_chr04	45131430	CC	AA	1946833385
SNP_P4_64568_45131738	NC_021163.1	Ca_kabuli_chr04	45131738	AA	TT	1946833388
SNP_P4_64569_45131784	NC_021163.1	Ca_kabuli_chr04	45131784	GG	TT	1946833390
SNP_P4_64570_45131994	NC_021163.1	Ca_kabuli_chr04	45131994	TT	CC	1946833392
SNP_P4_64571_45132019	NC_021163.1	Ca_kabuli_chr04	45132019	GG	AA	1946833394
SNP_P4_64572_45132025	NC_021163.1	Ca_kabuli_chr04	45132025	AA	TT	1946833396
SNP_P4_64573_45132442	NC_021163.1	Ca_kabuli_chr04	45132442	AA	GG	1946833398
SNP_P4_64574_45132737	NC_021163.1	Ca_kabuli_chr04	45132737	AA	GG	1946833400
SNP_P4_64575_45132742	NC_021163.1	Ca_kabuli_chr04	45132742	AA	CC	1946833403
SNP_P4_64576_45132819	NC_021163.1	Ca_kabuli_chr04	45132819	TT	GG	1946833405

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_64578_45132969	NC_021163.1	Ca_kabuli_chr04	45132969	CC	TT	1946833409
SNP_P4_64579_45133239	NC_021163.1	Ca_kabuli_chr04	45133239	GG	TT	1946833411
SNP_P4_64580_45133454	NC_021163.1	Ca_kabuli_chr04	45133454	TT	GG	1946833413
SNP_P4_64581_45134324	NC_021163.1	Ca_kabuli_chr04	45134324	AA	TT	1946833415
SNP_P4_64582_45135161	NC_021163.1	Ca_kabuli_chr04	45135161	AA	TT	1946833417
SNP_P4_64584_45135509	NC_021163.1	Ca_kabuli_chr04	45135509	CC	TT	1946833420
SNP_P4_64585_45135513	NC_021163.1	Ca_kabuli_chr04	45135513	AA	TT	1946833422
SNP_P4_64586_45135529	NC_021163.1	Ca_kabuli_chr04	45135529	AA	CC	1946833424
SNP_P4_64587_45137102	NC_021163.1	Ca_kabuli_chr04	45137102	AA	CC	1946833426
SNP_P4_64588_45137107	NC_021163.1	Ca_kabuli_chr04	45137107	GG	TT	1946833428
SNP_P4_64589_45137138	NC_021163.1	Ca_kabuli_chr04	45137138	GG	TT	1946833430
SNP_P4_64590_45137403	NC_021163.1	Ca_kabuli_chr04	45137403	AA	GG	1946833432
SNP_P4_64591_45137666	NC_021163.1	Ca_kabuli_chr04	45137666	CC	TT	1946833434
SNP_P4_64592_45137709	NC_021163.1	Ca_kabuli_chr04	45137709	AA	GG	1946833436
SNP_P4_64593_45137798	NC_021163.1	Ca_kabuli_chr04	45137798	GG	CC	1946833438
SNP_P4_64594_45137926	NC_021163.1	Ca_kabuli_chr04	45137926	AA	GG	1946833440
SNP_P4_64596_45138321	NC_021163.1	Ca_kabuli_chr04	45138321	TT	AA	1946833442
SNP_P4_64597_45138348	NC_021163.1	Ca_kabuli_chr04	45138348	GG	AA	1946833444
SNP_P4_64598_45138640	NC_021163.1	Ca_kabuli_chr04	45138640	AA	TT	1946833446
SNP_P4_64599_45138662	NC_021163.1	Ca_kabuli_chr04	45138662	CC	TT	1946833448
SNP_P4_64600_45138695	NC_021163.1	Ca_kabuli_chr04	45138695	TT	CC	1946833450
SNP_P4_64601_45138883	NC_021163.1	Ca_kabuli_chr04	45138883	GG	AA	1946833452
SNP_P4_64602_45138886	NC_021163.1	Ca_kabuli_chr04	45138886	TT	CC	1946833454
SNP_P4_64603_45139329	NC_021163.1	Ca_kabuli_chr04	45139329	GG	CC	1946833456
SNP_P4_64604_45140826	NC_021163.1	Ca_kabuli_chr04	45140826	CC	TT	1946833458
SNP_P4_64605_45140837	NC_021163.1	Ca_kabuli_chr04	45140837	TT	AA	1946833460
SNP_P4_64606_45141410	NC_021163.1	Ca_kabuli_chr04	45141410	GG	CC	1946833462
SNP_P4_64607_45141539	NC_021163.1	Ca_kabuli_chr04	45141539	AA	TT	1946833464
SNP_P4_64608_45141572	NC_021163.1	Ca_kabuli_chr04	45141572	CC	TT	1946833466
SNP_P4_64609_45141609	NC_021163.1	Ca_kabuli_chr04	45141609	GG	AA	1946833468
SNP_P4_64610_45142020	NC_021163.1	Ca_kabuli_chr04	45142020	TT	CC	1946833470
SNP_P4_64611_45142021	NC_021163.1	Ca_kabuli_chr04	45142021	CC	TT	1946833472
SNP_P4_64612_45143016	NC_021163.1	Ca_kabuli_chr04	45143016	TT	CC	1946833474
SNP_P4_64613_45143030	NC_021163.1	Ca_kabuli_chr04	45143030	TT	CC	1946833476
SNP_P4_64614_45143038	NC_021163.1	Ca_kabuli_chr04	45143038	CC	TT	1946833478
SNP_P4_64615_45143044	NC_021163.1	Ca_kabuli_chr04	45143044	CC	GG	1946833480
SNP_P4_64616_45143166	NC_021163.1	Ca_kabuli_chr04	45143166	TT	CC	1946833482
SNP_P4_64618_45143920	NC_021163.1	Ca_kabuli_chr04	45143920	CC	TT	1946833484
SNP_P4_64619_45144359	NC_021163.1	Ca_kabuli_chr04	45144359	TT	GG	1946833486
SNP_P4_64620_45145623	NC_021163.1	Ca_kabuli_chr04	45145623	AA	GG	1946833488
SNP_P4_64621_45145646	NC_021163.1	Ca_kabuli_chr04	45145646	GG	AA	1946833490

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_64623_45145856	NC_021163.1	Ca_kabuli_chr04	45145856	TT	CC	1946833494
SNP_P4_64624_45146271	NC_021163.1	Ca_kabuli_chr04	45146271	AA	CC	1946833496
SNP_P4_64625_45147630	NC_021163.1	Ca_kabuli_chr04	45147630	AA	GG	1946833499
SNP_P4_64626_45148325	NC_021163.1	Ca_kabuli_chr04	45148325	GG	TT	1946833501
SNP_P4_64628_45148571	NC_021163.1	Ca_kabuli_chr04	45148571	TT	GG	1946833503
SNP_P4_64629_45148595	NC_021163.1	Ca_kabuli_chr04	45148595	CC	GG	1946833505
SNP_P4_64630_45149269	NC_021163.1	Ca_kabuli_chr04	45149269	GG	AA	1946833507
SNP_P4_64631_45149758	NC_021163.1	Ca_kabuli_chr04	45149758	TT	AA	1946833509
SNP_P4_64632_45150184	NC_021163.1	Ca_kabuli_chr04	45150184	CC	TT	1946833511
SNP_P4_64633_45150199	NC_021163.1	Ca_kabuli_chr04	45150199	CC	TT	1946833513
SNP_P4_64635_45150270	NC_021163.1	Ca_kabuli_chr04	45150270	TT	GG	1946833515
SNP_P4_64636_45150280	NC_021163.1	Ca_kabuli_chr04	45150280	TT	CC	1946833517
SNP_P4_64637_45150292	NC_021163.1	Ca_kabuli_chr04	45150292	CC	TT	1946833519
SNP_P4_64638_45151430	NC_021163.1	Ca_kabuli_chr04	45151430	TT	AA	1946833521
SNP_P4_64640_45152192	NC_021163.1	Ca_kabuli_chr04	45152192	AA	CC	1946833523
SNP_P4_64642_45153948	NC_021163.1	Ca_kabuli_chr04	45153948	AA	TT	1946833525
SNP_P4_64643_45154452	NC_021163.1	Ca_kabuli_chr04	45154452	CC	TT	1946833527
SNP_P4_64644_45154485	NC_021163.1	Ca_kabuli_chr04	45154485	AA	TT	1946833529
SNP_P4_64645_45155065	NC_021163.1	Ca_kabuli_chr04	45155065	GG	TT	1946833531
SNP_P4_64646_45157000	NC_021163.1	Ca_kabuli_chr04	45157000	GG	AA	1946833532
SNP_P4_64648_45161367	NC_021163.1	Ca_kabuli_chr04	45161367	CC	TT	1946833534
SNP_P4_64650_45163408	NC_021163.1	Ca_kabuli_chr04	45163408	TT	GG	1946833536
SNP_P4_64651_45163436	NC_021163.1	Ca_kabuli_chr04	45163436	TT	CC	1946833538
SNP_P4_64652_45164077	NC_021163.1	Ca_kabuli_chr04	45164077	GG	AA	1946833540
SNP_P4_64653_45164118	NC_021163.1	Ca_kabuli_chr04	45164118	CC	TT	1946833543
SNP_P4_64654_45164144	NC_021163.1	Ca_kabuli_chr04	45164144	AA	GG	1946833545
SNP_P4_64655_45164307	NC_021163.1	Ca_kabuli_chr04	45164307	TT	CC	1946833547
SNP_P4_64656_45164518	NC_021163.1	Ca_kabuli_chr04	45164518	TT	GG	1946833549
SNP_P4_64657_45164742	NC_021163.1	Ca_kabuli_chr04	45164742	AA	GG	1946833551
SNP_P4_64658_45164945	NC_021163.1	Ca_kabuli_chr04	45164945	GG	AA	1946833553
SNP_P4_64660_45165327	NC_021163.1	Ca_kabuli_chr04	45165327	TT	CC	1946833555
SNP_P4_64661_45165368	NC_021163.1	Ca_kabuli_chr04	45165368	CC	TT	1946833557
SNP_P4_64662_45165653	NC_021163.1	Ca_kabuli_chr04	45165653	CC	TT	1946833559
SNP_P4_64663_45166003	NC_021163.1	Ca_kabuli_chr04	45166003	CC	AA	1946833561
SNP_P4_64664_45166023	NC_021163.1	Ca_kabuli_chr04	45166023	AA	GG	1946833563
SNP_P4_64665_45166298	NC_021163.1	Ca_kabuli_chr04	45166298	TT	CC	1946833565
SNP_P4_64666_45166302	NC_021163.1	Ca_kabuli_chr04	45166302	GG	AA	1946833567
SNP_P4_64667_45167158	NC_021163.1	Ca_kabuli_chr04	45167158	AA	TT	1946833569
SNP_P4_64668_45167168	NC_021163.1	Ca_kabuli_chr04	45167168	AA	TT	1946833571
SNP_P4_64669_45167988	NC_021163.1	Ca_kabuli_chr04	45167988	GG	AA	1946833574
SNP_P4_64671_45169089	NC_021163.1	Ca_kabuli_chr04	45169089	TT	CC	1946833576

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_64674_45169667	NC_021163.1	Ca_kabuli_chr04	45169667	AA	GG	1946833580
SNP_P4_64675_45171354	NC_021163.1	Ca_kabuli_chr04	45171354	GG	TT	1946833582
SNP_P4_64676_45171664	NC_021163.1	Ca_kabuli_chr04	45171664	AA	TT	1946833584
SNP_P4_64677_45174336	NC_021163.1	Ca_kabuli_chr04	45174336	CC	TT	1946833586
SNP_P4_64678_45174359	NC_021163.1	Ca_kabuli_chr04	45174359	CC	AA	1946833588
SNP_P4_64680_45174622	NC_021163.1	Ca_kabuli_chr04	45174622	AA	GG	1946833590
SNP_P4_64682_45174790	NC_021163.1	Ca_kabuli_chr04	45174790	AA	CC	1946833592
SNP_P4_64683_45175735	NC_021163.1	Ca_kabuli_chr04	45175735	AA	CC	1946833594
SNP_P4_64684_45176012	NC_021163.1	Ca_kabuli_chr04	45176012	AA	GG	1946833596
SNP_P4_64685_45176053	NC_021163.1	Ca_kabuli_chr04	45176053	TT	CC	1946833598
SNP_P4_64686_45176061	NC_021163.1	Ca_kabuli_chr04	45176061	CC	TT	1946833600
SNP_P4_64687_45176077	NC_021163.1	Ca_kabuli_chr04	45176077	CC	TT	1946833602
SNP_P4_64688_45176103	NC_021163.1	Ca_kabuli_chr04	45176103	CC	TT	1946833604
SNP_P4_64689_45176198	NC_021163.1	Ca_kabuli_chr04	45176198	CC	TT	1946833606
SNP_P4_64690_45176355	NC_021163.1	Ca_kabuli_chr04	45176355	AA	CC	1946833608
SNP_P4_64691_45176391	NC_021163.1	Ca_kabuli_chr04	45176391	CC	TT	1946833610
SNP_P4_64692_45177035	NC_021163.1	Ca_kabuli_chr04	45177035	TT	CC	1946833613
SNP_P4_64694_45177060	NC_021163.1	Ca_kabuli_chr04	45177060	CC	TT	1946833615
SNP_P4_64696_45177841	NC_021163.1	Ca_kabuli_chr04	45177841	TT	GG	1946833617
SNP_P4_64698_45178038	NC_021163.1	Ca_kabuli_chr04	45178038	AA	GG	1946833619
SNP_P4_64699_45178070	NC_021163.1	Ca_kabuli_chr04	45178070	TT	CC	1946833621
SNP_P4_64700_45179662	NC_021163.1	Ca_kabuli_chr04	45179662	AA	GG	1946833623
SNP_P4_64701_45179694	NC_021163.1	Ca_kabuli_chr04	45179694	TT	AA	1946833625
SNP_P4_64702_45179696	NC_021163.1	Ca_kabuli_chr04	45179696	GG	TT	1946833627
SNP_P4_64703_45179722	NC_021163.1	Ca_kabuli_chr04	45179722	CC	TT	1946833629
SNP_P4_64704_45179729	NC_021163.1	Ca_kabuli_chr04	45179729	AA	GG	1946833631
SNP_P4_64705_45179935	NC_021163.1	Ca_kabuli_chr04	45179935	TT	CC	1946833633
SNP_P4_64706_45179990	NC_021163.1	Ca_kabuli_chr04	45179990	GG	AA	1946833635
SNP_P4_64707_45180000	NC_021163.1	Ca_kabuli_chr04	45180000	CC	AA	1946833636
SNP_P4_64708_45180214	NC_021163.1	Ca_kabuli_chr04	45180214	CC	AA	1946833639
SNP_P4_64709_45180517	NC_021163.1	Ca_kabuli_chr04	45180517	AA	GG	1946833641
SNP_P4_64710_45180609	NC_021163.1	Ca_kabuli_chr04	45180609	TT	CC	1946833643
SNP_P4_64711_45180900	NC_021163.1	Ca_kabuli_chr04	45180900	CC	TT	1946833645
SNP_P4_64712_45180975	NC_021163.1	Ca_kabuli_chr04	45180975	CC	TT	1946833647
SNP_P4_64713_45181124	NC_021163.1	Ca_kabuli_chr04	45181124	CC	TT	1946833649
SNP_P4_64714_45181728	NC_021163.1	Ca_kabuli_chr04	45181728	GG	AA	1946833651
SNP_P4_64715_45181774	NC_021163.1	Ca_kabuli_chr04	45181774	AA	TT	1946833653
SNP_P4_64716_45181785	NC_021163.1	Ca_kabuli_chr04	45181785	CC	TT	1946833654
SNP_P4_64717_45182322	NC_021163.1	Ca_kabuli_chr04	45182322	CC	GG	1946833656
SNP_P4_64719_45182560	NC_021163.1	Ca_kabuli_chr04	45182560	TT	AA	1946833658
SNP_P4_64720_45182566	NC_021163.1	Ca_kabuli_chr04	45182566	TT	GG	1946833660

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_64722_45182614	NC_021163.1	Ca_kabuli_chr04	45182614	TT	CC	1946833664
SNP_P4_64723_45182662	NC_021163.1	Ca_kabuli_chr04	45182662	AA	CC	1946833667
SNP_P4_64724_45182665	NC_021163.1	Ca_kabuli_chr04	45182665	AA	TT	1946833669
SNP_P4_64725_45182685	NC_021163.1	Ca_kabuli_chr04	45182685	TT	CC	1946833671
SNP_P4_64729_45184391	NC_021163.1	Ca_kabuli_chr04	45184391	GG	AA	1946833673
SNP_P4_64730_45184401	NC_021163.1	Ca_kabuli_chr04	45184401	CC	AA	1946833675
SNP_P4_64731_45184410	NC_021163.1	Ca_kabuli_chr04	45184410	TT	CC	1946833677
SNP_P4_64732_45184428	NC_021163.1	Ca_kabuli_chr04	45184428	CC	GG	1946833679
SNP_P4_64733_45184488	NC_021163.1	Ca_kabuli_chr04	45184488	GG	AA	1946833681
SNP_P4_64734_45184504	NC_021163.1	Ca_kabuli_chr04	45184504	AA	GG	1946833683
SNP_P4_64735_45185355	NC_021163.1	Ca_kabuli_chr04	45185355	CC	TT	1946833685
SNP_P4_64737_45185867	NC_021163.1	Ca_kabuli_chr04	45185867	CC	AA	1946833687
SNP_P4_64738_45186475	NC_021163.1	Ca_kabuli_chr04	45186475	GG	CC	1946833689
SNP_P4_64739_45186495	NC_021163.1	Ca_kabuli_chr04	45186495	TT	AA	1946833691
SNP_P4_64740_45187531	NC_021163.1	Ca_kabuli_chr04	45187531	CC	TT	1946833693
SNP_P4_64741_45189961	NC_021163.1	Ca_kabuli_chr04	45189961	AA	GG	1946833695
SNP_P4_64742_45190336	NC_021163.1	Ca_kabuli_chr04	45190336	CC	TT	1946833697
SNP_P4_64744_45194314	NC_021163.1	Ca_kabuli_chr04	45194314	AA	GG	1946833699
SNP_P4_64745_45194320	NC_021163.1	Ca_kabuli_chr04	45194320	AA	GG	1946833701
SNP_P4_64746_45194697	NC_021163.1	Ca_kabuli_chr04	45194697	CC	TT	1946833703
SNP_P4_64747_45194704	NC_021163.1	Ca_kabuli_chr04	45194704	CC	TT	1946833705
SNP_P4_64748_45194752	NC_021163.1	Ca_kabuli_chr04	45194752	AA	TT	1946833707
SNP_P4_64749_45194824	NC_021163.1	Ca_kabuli_chr04	45194824	TT	CC	1946833709
SNP_P4_64750_45194829	NC_021163.1	Ca_kabuli_chr04	45194829	TT	CC	1946833711
SNP_P4_64751_45194890	NC_021163.1	Ca_kabuli_chr04	45194890	CC	TT	1946833713
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SNP_P4_64753_45194976	NC_021163.1	Ca_kabuli_chr04	45194976	GG	TT	1946833717
SNP_P4_64754_45195872	NC_021163.1	Ca_kabuli_chr04	45195872	GG	AA	1946833719
SNP_P4_64755_45195874	NC_021163.1	Ca_kabuli_chr04	45195874	GG	TT	1946833721
SNP_P4_64756_45196108	NC_021163.1	Ca_kabuli_chr04	45196108	GG	AA	1946833723
SNP_P4_64757_45196303	NC_021163.1	Ca_kabuli_chr04	45196303	AA	TT	1946833725
SNP_P4_64758_45196310	NC_021163.1	Ca_kabuli_chr04	45196310	TT	CC	1946833727
SNP_P4_64759_45196554	NC_021163.1	Ca_kabuli_chr04	45196554	AA	GG	1946833729
SNP_P4_64760_45196564	NC_021163.1	Ca_kabuli_chr04	45196564	TT	CC	1946833731
SNP_P4_64761_45196580	NC_021163.1	Ca_kabuli_chr04	45196580	GG	CC	1946833733
SNP_P4_64762_45196601	NC_021163.1	Ca_kabuli_chr04	45196601	AA	TT	1946833735
SNP_P4_64764_45196998	NC_021163.1	Ca_kabuli_chr04	45196998	GG	CC	1946833737
SNP_P4_64765_45197913	NC_021163.1	Ca_kabuli_chr04	45197913	TT	GG	1946833739
SNP_P4_64766_45197944	NC_021163.1	Ca_kabuli_chr04	45197944	CC	TT	1946833741
SNP_P4_64767_45198597	NC_021163.1	Ca_kabuli_chr04	45198597	AA	GG	1946833744
SNP_P4_64768_45199408	NC_021163.1	Ca_kabuli_chr04	45199408	TT	CC	1946833746

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_64770_45199574	NC_021163.1	Ca_kabuli_chr04	45199574	AA	GG	1946833750
SNP_P4_64771_45199745	NC_021163.1	Ca_kabuli_chr04	45199745	TT	GG	1946833752
SNP_P4_64772_45199775	NC_021163.1	Ca_kabuli_chr04	45199775	AA	GG	1946833754
SNP_P4_64773_45199947	NC_021163.1	Ca_kabuli_chr04	45199947	CC	GG	1946833756
SNP_P4_64775_45200015	NC_021163.1	Ca_kabuli_chr04	45200015	GG	AA	1946833758
SNP_P4_64776_45200507	NC_021163.1	Ca_kabuli_chr04	45200507	TT	AA	1946833760
SNP_P4_64777_45202299	NC_021163.1	Ca_kabuli_chr04	45202299	GG	AA	1946833762
SNP_P4_64779_45203504	NC_021163.1	Ca_kabuli_chr04	45203504	GG	AA	1946833765
SNP_P4_64780_45203512	NC_021163.1	Ca_kabuli_chr04	45203512	TT	GG	1946833767
SNP_P4_64781_45205023	NC_021163.1	Ca_kabuli_chr04	45205023	GG	AA	1946833769
SNP_P4_64782_45205027	NC_021163.1	Ca_kabuli_chr04	45205027	CC	TT	1946833771
SNP_P4_64785_45205355	NC_021163.1	Ca_kabuli_chr04	45205355	AA	TT	1946833773
SNP_P4_64786_45205364	NC_021163.1	Ca_kabuli_chr04	45205364	AA	GG	1946833775
SNP_P4_64787_45205365	NC_021163.1	Ca_kabuli_chr04	45205365	CC	TT	1946833777
SNP_P4_64788_45205487	NC_021163.1	Ca_kabuli_chr04	45205487	CC	TT	1946833779
SNP_P4_64789_45205607	NC_021163.1	Ca_kabuli_chr04	45205607	GG	CC	1946833781
SNP_P4_64790_45205660	NC_021163.1	Ca_kabuli_chr04	45205660	GG	AA	1946833783
SNP_P4_64791_45205664	NC_021163.1	Ca_kabuli_chr04	45205664	GG	CC	1946833785
SNP_P4_64793_45206032	NC_021163.1	Ca_kabuli_chr04	45206032	GG	TT	1946833787
SNP_P4_64794_45206035	NC_021163.1	Ca_kabuli_chr04	45206035	TT	AA	1946833789
SNP_P4_64795_45206383	NC_021163.1	Ca_kabuli_chr04	45206383	AA	CC	1946833791
SNP_P4_64796_45206887	NC_021163.1	Ca_kabuli_chr04	45206887	TT	GG	1946833793
SNP_P4_64797_45206892	NC_021163.1	Ca_kabuli_chr04	45206892	TT	CC	1946833795
SNP_P4_64798_45206907	NC_021163.1	Ca_kabuli_chr04	45206907	AA	GG	1946833797
SNP_P4_64799_45206920	NC_021163.1	Ca_kabuli_chr04	45206920	AA	GG	1946833799
SNP_P4_64800_45207110	NC_021163.1	Ca_kabuli_chr04	45207110	GG	TT	1946833801
SNP_P4_64801_45208566	NC_021163.1	Ca_kabuli_chr04	45208566	CC	TT	1946833803
SNP_P4_64802_45208597	NC_021163.1	Ca_kabuli_chr04	45208597	AA	TT	1946833805
SNP_P4_64803_45210511	NC_021163.1	Ca_kabuli_chr04	45210511	TT	CC	1946833807
SNP_P4_64804_45210612	NC_021163.1	Ca_kabuli_chr04	45210612	CC	TT	1946833809
SNP_P4_64805_45210778	NC_021163.1	Ca_kabuli_chr04	45210778	AA	CC	1946833811
SNP_P4_64809_45215501	NC_021163.1	Ca_kabuli_chr04	45215501	CC	TT	1946833813
SNP_P4_64810_45216031	NC_021163.1	Ca_kabuli_chr04	45216031	TT	CC	1946833815
SNP_P4_64811_45216134	NC_021163.1	Ca_kabuli_chr04	45216134	TT	GG	1946833817
SNP_P4_64812_45218129	NC_021163.1	Ca_kabuli_chr04	45218129	CC	AA	1946833819
SNP_P4_64813_45218873	NC_021163.1	Ca_kabuli_chr04	45218873	AA	TT	1946833821
SNP_P4_64814_45219587	NC_021163.1	Ca_kabuli_chr04	45219587	AA	GG	1946833823
SNP_P4_64815_45220084	NC_021163.1	Ca_kabuli_chr04	45220084	GG	TT	1946833825
SNP_P4_64818_45222138	NC_021163.1	Ca_kabuli_chr04	45222138	GG	TT	1946833827
SNP_P4_64819_45222152	NC_021163.1	Ca_kabuli_chr04	45222152	CC	GG	1946833829
SNP_P4_64820_45222334	NC_021163.1	Ca_kabuli_chr04	45222334	TT	CC	1946833831

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_64822_45223210	NC_021163.1	Ca_kabuli_chr04	45223210	GG	AA	1946833835
SNP_P4_64824_45223548	NC_021163.1	Ca_kabuli_chr04	45223548	AA	TT	1946833837
SNP_P4_64825_45224596	NC_021163.1	Ca_kabuli_chr04	45224596	CC	GG	1946833839
SNP_P4_64826_45224907	NC_021163.1	Ca_kabuli_chr04	45224907	CC	AA	1946833841
SNP_P4_64828_45225941	NC_021163.1	Ca_kabuli_chr04	45225941	CC	TT	1946833843
SNP_P4_64829_45226830	NC_021163.1	Ca_kabuli_chr04	45226830	TT	CC	1946833845
SNP_P4_64830_45226837	NC_021163.1	Ca_kabuli_chr04	45226837	TT	CC	1946833847
SNP_P4_64831_45226869	NC_021163.1	Ca_kabuli_chr04	45226869	AA	GG	1946833849
SNP_P4_64832_45226878	NC_021163.1	Ca_kabuli_chr04	45226878	TT	CC	1946833851
SNP_P4_64833_45226882	NC_021163.1	Ca_kabuli_chr04	45226882	AA	CC	1946833853
SNP_P4_64835_45227076	NC_021163.1	Ca_kabuli_chr04	45227076	TT	GG	1946833855
SNP_P4_64836_45227095	NC_021163.1	Ca_kabuli_chr04	45227095	GG	AA	1946833857
SNP_P4_64837_45227112	NC_021163.1	Ca_kabuli_chr04	45227112	TT	GG	1946833859
SNP_P4_64838_45227155	NC_021163.1	Ca_kabuli_chr04	45227155	CC	TT	1946833861
SNP_P4_64839_45227157	NC_021163.1	Ca_kabuli_chr04	45227157	AA	CC	1946833863
SNP_P4_64840_45227161	NC_021163.1	Ca_kabuli_chr04	45227161	GG	AA	1946833865
SNP_P4_64841_45227182	NC_021163.1	Ca_kabuli_chr04	45227182	AA	GG	1946833867
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SNP_P4_64845_45227333	NC_021163.1	Ca_kabuli_chr04	45227333	CC	TT	1946833875
SNP_P4_64846_45228740	NC_021163.1	Ca_kabuli_chr04	45228740	AA	GG	1946833877
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SNP_P4_64848_45231209	NC_021163.1	Ca_kabuli_chr04	45231209	GG	TT	1946833880
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SNP_P4_64850_45232627	NC_021163.1	Ca_kabuli_chr04	45232627	AA	GG	1946833884
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SNP_P4_64852_45233925	NC_021163.1	Ca_kabuli_chr04	45233925	AA	CC	1946833887
SNP_P4_64853_45235615	NC_021163.1	Ca_kabuli_chr04	45235615	CC	TT	1946833890
SNP_P4_64854_45235747	NC_021163.1	Ca_kabuli_chr04	45235747	CC	TT	1946833892
SNP_P4_64856_45236451	NC_021163.1	Ca_kabuli_chr04	45236451	GG	CC	1946833894
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SNP_P4_64858_45236678	NC_021163.1	Ca_kabuli_chr04	45236678	GG	AA	1946833898
SNP_P4_64859_45236693	NC_021163.1	Ca_kabuli_chr04	45236693	CC	TT	1946833900
SNP_P4_64860_45244714	NC_021163.1	Ca_kabuli_chr04	45244714	CC	TT	1946833902
SNP_P4_64861_45244737	NC_021163.1	Ca_kabuli_chr04	45244737	AA	GG	1946833904
SNP_P4_64862_45244778	NC_021163.1	Ca_kabuli_chr04	45244778	GG	AA	1946833906
SNP_P4_64863_45244779	NC_021163.1	Ca_kabuli_chr04	45244779	TT	CC	1946833908
SNP_P4_64866_45245711	NC_021163.1	Ca_kabuli_chr04	45245711	GG	AA	1946833910
SNP_P4_64867_45245802	NC_021163.1	Ca_kabuli_chr04	45245802	AA	CC	1946833912
SNP_P4_64868_45245906	NC_021163.1	Ca_kabuli_chr04	45245906	AA	TT	1946833914

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_64872_45247569	NC_021163.1	Ca_kabuli_chr04	45247569	TT	AA	1946833920
SNP_P4_64873_45247570	NC_021163.1	Ca_kabuli_chr04	45247570	TT	AA	1946833922
SNP_P4_64874_45247571	NC_021163.1	Ca_kabuli_chr04	45247571	TT	AA	1946833924
SNP_P4_64877_45248307	NC_021163.1	Ca_kabuli_chr04	45248307	AA	TT	1946833926
SNP_P4_64878_45249477	NC_021163.1	Ca_kabuli_chr04	45249477	CC	GG	1946833928
SNP_P4_64879_45249518	NC_021163.1	Ca_kabuli_chr04	45249518	CC	GG	1946833930
SNP_P4_64880_45249558	NC_021163.1	Ca_kabuli_chr04	45249558	CC	GG	1946833932
SNP_P4_64881_45249873	NC_021163.1	Ca_kabuli_chr04	45249873	AA	GG	1946833934
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SNP_P4_64888_45251201	NC_021163.1	Ca_kabuli_chr04	45251201	CC	TT	1946833945
SNP_P4_64889_45255910	NC_021163.1	Ca_kabuli_chr04	45255910	AA	TT	1946833947
SNP_P4_64890_45255940	NC_021163.1	Ca_kabuli_chr04	45255940	AA	GG	1946833949
SNP_P4_64891_45255948	NC_021163.1	Ca_kabuli_chr04	45255948	TT	AA	1946833951
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SNP_P4_64893_45256409	NC_021163.1	Ca_kabuli_chr04	45256409	GG	AA	1946833955
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SNP_P4_64896_45256904	NC_021163.1	Ca_kabuli_chr04	45256904	GG	AA	1946833961
SNP_P4_64897_45256908	NC_021163.1	Ca_kabuli_chr04	45256908	GG	AA	1946833963
SNP_P4_64898_45257235	NC_021163.1	Ca_kabuli_chr04	45257235	AA	GG	1946833965
SNP_P4_64899_45258288	NC_021163.1	Ca_kabuli_chr04	45258288	TT	GG	1946833967
SNP_P4_64900_45258373	NC_021163.1	Ca_kabuli_chr04	45258373	TT	CC	1946833970
SNP_P4_64901_45258395	NC_021163.1	Ca_kabuli_chr04	45258395	TT	CC	1946833972
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SNP_P4_64903_45258959	NC_021163.1	Ca_kabuli_chr04	45258959	GG	AA	1946833976
SNP_P4_64904_45258972	NC_021163.1	Ca_kabuli_chr04	45258972	AA	CC	1946833978
SNP_P4_64905_45259216	NC_021163.1	Ca_kabuli_chr04	45259216	TT	CC	1946833980
SNP_P4_64906_45259280	NC_021163.1	Ca_kabuli_chr04	45259280	TT	CC	1946833982
SNP_P4_64908_45261805	NC_021163.1	Ca_kabuli_chr04	45261805	GG	AA	1946833984
SNP_P4_64909_45261829	NC_021163.1	Ca_kabuli_chr04	45261829	TT	CC	1946833986
SNP_P4_64910_45261830	NC_021163.1	Ca_kabuli_chr04	45261830	AA	GG	1946833988
SNP_P4_64911_45261876	NC_021163.1	Ca_kabuli_chr04	45261876	TT	AA	1946833989
SNP_P4_64913_45266152	NC_021163.1	Ca_kabuli_chr04	45266152	GG	AA	1946833991
SNP_P4_64915_45268350	NC_021163.1	Ca_kabuli_chr04	45268350	CC	TT	1946833993
SNP_P4_64916_45268374	NC_021163.1	Ca_kabuli_chr04	45268374	GG	TT	1946833995
SNP_P4_64917_45268375	NC_021163.1	Ca_kabuli_chr04	45268375	TT	AA	1946833998
SNP_P4_64919_45268974	NC_021163.1	Ca_kabuli_chr04	45268974	CC	AA	1946834000

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_64921_45269649	NC_021163.1	Ca_kabuli_chr04	45269649	CC	GG	1946834004
SNP_P4_64922_45270083	NC_021163.1	Ca_kabuli_chr04	45270083	AA	GG	1946834006
SNP_P4_64923_45270587	NC_021163.1	Ca_kabuli_chr04	45270587	AA	GG	1946834008
SNP_P4_64926_45271757	NC_021163.1	Ca_kabuli_chr04	45271757	AA	GG	1946834010
SNP_P4_64927_45273283	NC_021163.1	Ca_kabuli_chr04	45273283	AA	CC	1946834012
SNP_P4_64928_45273629	NC_021163.1	Ca_kabuli_chr04	45273629	CC	TT	1946834014
SNP_P4_64929_45273857	NC_021163.1	Ca_kabuli_chr04	45273857	CC	TT	1946834016
SNP_P4_64933_45274847	NC_021163.1	Ca_kabuli_chr04	45274847	TT	GG	1946834018
SNP_P4_64935_45275401	NC_021163.1	Ca_kabuli_chr04	45275401	GG	AA	1946834020
SNP_P4_64936_45275696	NC_021163.1	Ca_kabuli_chr04	45275696	AA	TT	1946834022
SNP_P4_64937_45275735	NC_021163.1	Ca_kabuli_chr04	45275735	TT	CC	1946834024
SNP_P4_64938_45275748	NC_021163.1	Ca_kabuli_chr04	45275748	AA	CC	1946834026
SNP_P4_64939_45275772	NC_021163.1	Ca_kabuli_chr04	45275772	GG	CC	1946834028
SNP_P4_64940_45289803	NC_021163.1	Ca_kabuli_chr04	45289803	GG	AA	1946834030
SNP_P4_64942_45289977	NC_021163.1	Ca_kabuli_chr04	45289977	AA	GG	1946834032
SNP_P4_64943_45290157	NC_021163.1	Ca_kabuli_chr04	45290157	AA	GG	1946834034
SNP_P4_64944_45290250	NC_021163.1	Ca_kabuli_chr04	45290250	AA	GG	1946834036
SNP_P4_64945_45290285	NC_021163.1	Ca_kabuli_chr04	45290285	CC	TT	1946834038
SNP_P4_64946_45290369	NC_021163.1	Ca_kabuli_chr04	45290369	CC	AA	1946834040
SNP_P4_64947_45290411	NC_021163.1	Ca_kabuli_chr04	45290411	AA	TT	1946834042
SNP_P4_64949_45290606	NC_021163.1	Ca_kabuli_chr04	45290606	CC	TT	1946834044
SNP_P4_64950_45290660	NC_021163.1	Ca_kabuli_chr04	45290660	CC	TT	1946834046
SNP_P4_64951_45290847	NC_021163.1	Ca_kabuli_chr04	45290847	AA	GG	1946834048
SNP_P4_64952_45290891	NC_021163.1	Ca_kabuli_chr04	45290891	TT	CC	1946834050
SNP_P4_64953_45295007	NC_021163.1	Ca_kabuli_chr04	45295007	TT	CC	1946834052
SNP_P4_64954_45295033	NC_021163.1	Ca_kabuli_chr04	45295033	TT	CC	1946834054
SNP_P4_64955_45295262	NC_021163.1	Ca_kabuli_chr04	45295262	AA	GG	1946834056
SNP_P4_64956_45295287	NC_021163.1	Ca_kabuli_chr04	45295287	GG	AA	1946834059
SNP_P4_64958_45295411	NC_021163.1	Ca_kabuli_chr04	45295411	TT	AA	1946834061
SNP_P4_64959_45296255	NC_021163.1	Ca_kabuli_chr04	45296255	TT	AA	1946834063
SNP_P4_64960_45296262	NC_021163.1	Ca_kabuli_chr04	45296262	AA	GG	1946834065
SNP_P4_64961_45296379	NC_021163.1	Ca_kabuli_chr04	45296379	AA	GG	1946834067
SNP_P4_64963_45296414	NC_021163.1	Ca_kabuli_chr04	45296414	CC	TT	1946834069
SNP_P4_64964_45296445	NC_021163.1	Ca_kabuli_chr04	45296445	TT	CC	1946834071
SNP_P4_64965_45296456	NC_021163.1	Ca_kabuli_chr04	45296456	AA	GG	1946834073
SNP_P4_64966_45296457	NC_021163.1	Ca_kabuli_chr04	45296457	CC	TT	1946834075
SNP_P4_64967_45296499	NC_021163.1	Ca_kabuli_chr04	45296499	CC	TT	1946834077
SNP_P4_64968_45296505	NC_021163.1	Ca_kabuli_chr04	45296505	AA	GG	1946834079
SNP_P4_64969_45296506	NC_021163.1	Ca_kabuli_chr04	45296506	GG	AA	1946834081
SNP_P4_64970_45296509	NC_021163.1	Ca_kabuli_chr04	45296509	GG	AA	1946834083
SNP_P4_64971_45296513	NC_021163.1	Ca_kabuli_chr04	45296513	AA	TT	1946834085

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_64973_45296553	NC_021163.1	Ca_kabuli_chr04	45296553	TT	AA	1946834089
SNP_P4_64974_45296623	NC_021163.1	Ca_kabuli_chr04	45296623	GG	AA	1946834092
SNP_P4_64975_45296716	NC_021163.1	Ca_kabuli_chr04	45296716	GG	CC	1946834094
SNP_P4_64976_45296756	NC_021163.1	Ca_kabuli_chr04	45296756	CC	TT	1946834096
SNP_P4_64977_45296765	NC_021163.1	Ca_kabuli_chr04	45296765	AA	CC	1946834098
SNP_P4_64978_45296825	NC_021163.1	Ca_kabuli_chr04	45296825	GG	TT	1946834100
SNP_P4_64979_45296982	NC_021163.1	Ca_kabuli_chr04	45296982	CC	TT	1946834102
SNP_P4_64980_45297014	NC_021163.1	Ca_kabuli_chr04	45297014	AA	GG	1946834104
SNP_P4_64981_45297221	NC_021163.1	Ca_kabuli_chr04	45297221	AA	GG	1946834106
SNP_P4_64982_45297262	NC_021163.1	Ca_kabuli_chr04	45297262	AA	GG	1946834108
SNP_P4_64986_45297841	NC_021163.1	Ca_kabuli_chr04	45297841	AA	GG	1946834110
SNP_P4_64987_45297847	NC_021163.1	Ca_kabuli_chr04	45297847	GG	CC	1946834112
SNP_P4_64988_45297896	NC_021163.1	Ca_kabuli_chr04	45297896	CC	AA	1946834114
SNP_P4_64989_45297950	NC_021163.1	Ca_kabuli_chr04	45297950	CC	TT	1946834116
SNP_P4_64991_45298000	NC_021163.1	Ca_kabuli_chr04	45298000	GG	TT	1946834118
SNP_P4_64992_45298113	NC_021163.1	Ca_kabuli_chr04	45298113	AA	CC	1946834120
SNP_P4_64993_45298140	NC_021163.1	Ca_kabuli_chr04	45298140	CC	TT	1946834122
SNP_P4_64994_45298151	NC_021163.1	Ca_kabuli_chr04	45298151	AA	TT	1946834124
SNP_P4_64995_45298159	NC_021163.1	Ca_kabuli_chr04	45298159	GG	AA	1946834126
SNP_P4_64996_45298213	NC_021163.1	Ca_kabuli_chr04	45298213	CC	TT	1946834128
SNP_P4_64997_45298222	NC_021163.1	Ca_kabuli_chr04	45298222	TT	CC	1946834130
SNP_P4_64998_45298239	NC_021163.1	Ca_kabuli_chr04	45298239	AA	TT	1946834132
SNP_P4_64999_45298242	NC_021163.1	Ca_kabuli_chr04	45298242	AA	GG	1946834134
SNP_P4_65000_45298638	NC_021163.1	Ca_kabuli_chr04	45298638	GG	AA	1946834136
SNP_P4_65001_45298669	NC_021163.1	Ca_kabuli_chr04	45298669	CC	AA	1946834138
SNP_P4_65002_45300508	NC_021163.1	Ca_kabuli_chr04	45300508	GG	AA	1946834140
SNP_P4_65003_45302876	NC_021163.1	Ca_kabuli_chr04	45302876	GG	AA	1946834142
SNP_P4_65004_45303306	NC_021163.1	Ca_kabuli_chr04	45303306	AA	CC	1946834144
SNP_P4_65005_45317990	NC_021163.1	Ca_kabuli_chr04	45317990	TT	CC	1946834146
SNP_P4_65006_45317997	NC_021163.1	Ca_kabuli_chr04	45317997	CC	TT	1946834148
SNP_P4_65007_45318020	NC_021163.1	Ca_kabuli_chr04	45318020	CC	AA	1946834150
SNP_P4_65009_45318175	NC_021163.1	Ca_kabuli_chr04	45318175	GG	AA	1946834152
SNP_P4_65010_45318769	NC_021163.1	Ca_kabuli_chr04	45318769	GG	AA	1946834154
SNP_P4_65011_45318822	NC_021163.1	Ca_kabuli_chr04	45318822	TT	CC	1946834157
SNP_P4_65012_45319004	NC_021163.1	Ca_kabuli_chr04	45319004	CC	TT	1946834159
SNP_P4_65013_45319010	NC_021163.1	Ca_kabuli_chr04	45319010	TT	AA	1946834162
SNP_P4_65014_45319027	NC_021163.1	Ca_kabuli_chr04	45319027	AA	TT	1946834164
SNP_P4_65015_45319171	NC_021163.1	Ca_kabuli_chr04	45319171	TT	CC	1946834166
SNP_P4_65017_45320414	NC_021163.1	Ca_kabuli_chr04	45320414	TT	CC	1946834168
SNP_P4_65018_45320447	NC_021163.1	Ca_kabuli_chr04	45320447	AA	TT	1946834170
SNP_P4_65019_45320449	NC_021163.1	Ca_kabuli_chr04	45320449	CC	GG	1946834172

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_65021_45320503	NC_021163.1	Ca_kabuli_chr04	45320503	CC	AA	1946834176
SNP_P4_65022_45321508	NC_021163.1	Ca_kabuli_chr04	45321508	CC	GG	1946834178
SNP_P4_65023_45321544	NC_021163.1	Ca_kabuli_chr04	45321544	AA	CC	1946834181
SNP_P4_65024_45321938	NC_021163.1	Ca_kabuli_chr04	45321938	TT	CC	1946834183
SNP_P4_65025_45321952	NC_021163.1	Ca_kabuli_chr04	45321952	AA	GG	1946834184
SNP_P4_65026_45321953	NC_021163.1	Ca_kabuli_chr04	45321953	TT	AA	1946834187
SNP_P4_65027_45322160	NC_021163.1	Ca_kabuli_chr04	45322160	AA	GG	1946834189
SNP_P4_65029_45322252	NC_021163.1	Ca_kabuli_chr04	45322252	GG	AA	1946834191
SNP_P4_65030_45322458	NC_021163.1	Ca_kabuli_chr04	45322458	CC	TT	1946834193
SNP_P4_65032_45322752	NC_021163.1	Ca_kabuli_chr04	45322752	GG	AA	1946834195
SNP_P4_65033_45322762	NC_021163.1	Ca_kabuli_chr04	45322762	AA	GG	1946834196
SNP_P4_65034_45322779	NC_021163.1	Ca_kabuli_chr04	45322779	AA	GG	1946834198
SNP_P4_65035_45322830	NC_021163.1	Ca_kabuli_chr04	45322830	CC	GG	1946834200
SNP_P4_65036_45324620	NC_021163.1	Ca_kabuli_chr04	45324620	GG	CC	1946834202
SNP_P4_65037_45327535	NC_021163.1	Ca_kabuli_chr04	45327535	CC	GG	1946834204
SNP_P4_65038_45327728	NC_021163.1	Ca_kabuli_chr04	45327728	AA	GG	1946834206
SNP_P4_65039_45329105	NC_021163.1	Ca_kabuli_chr04	45329105	TT	AA	1946834208
SNP_P4_65040_45330627	NC_021163.1	Ca_kabuli_chr04	45330627	GG	AA	1946834210
SNP_P4_65041_45330918	NC_021163.1	Ca_kabuli_chr04	45330918	CC	TT	1946834212
SNP_P4_65042_45331394	NC_021163.1	Ca_kabuli_chr04	45331394	AA	GG	1946834214
SNP_P4_65043_45331602	NC_021163.1	Ca_kabuli_chr04	45331602	AA	CC	1946834216
SNP_P4_65044_45331622	NC_021163.1	Ca_kabuli_chr04	45331622	GG	TT	1946834218
SNP_P4_65045_45331646	NC_021163.1	Ca_kabuli_chr04	45331646	AA	GG	1946834220
SNP_P4_65046_45331890	NC_021163.1	Ca_kabuli_chr04	45331890	AA	GG	1946834222
SNP_P4_65047_45331916	NC_021163.1	Ca_kabuli_chr04	45331916	TT	GG	1946834224
SNP_P4_65048_45332058	NC_021163.1	Ca_kabuli_chr04	45332058	AA	CC	1946834226
SNP_P4_65049_45332279	NC_021163.1	Ca_kabuli_chr04	45332279	GG	TT	1946834228
SNP_P4_65050_45332363	NC_021163.1	Ca_kabuli_chr04	45332363	CC	TT	1946834230
SNP_P4_65051_45332374	NC_021163.1	Ca_kabuli_chr04	45332374	AA	GG	1946834231
SNP_P4_65052_45332376	NC_021163.1	Ca_kabuli_chr04	45332376	CC	TT	1946834232
SNP_P4_65053_45332379	NC_021163.1	Ca_kabuli_chr04	45332379	GG	AA	1946834233
SNP_P4_65054_45332382	NC_021163.1	Ca_kabuli_chr04	45332382	CC	TT	1946834234
SNP_P4_65055_45332562	NC_021163.1	Ca_kabuli_chr04	45332562	TT	CC	1946834235
SNP_P4_65056_45332567	NC_021163.1	Ca_kabuli_chr04	45332567	GG	AA	1946834236
SNP_P4_65057_45332599	NC_021163.1	Ca_kabuli_chr04	45332599	CC	AA	1946834237
SNP_P4_65058_45332602	NC_021163.1	Ca_kabuli_chr04	45332602	AA	GG	1946834238
SNP_P4_65059_45332657	NC_021163.1	Ca_kabuli_chr04	45332657	AA	GG	1946834239
SNP_P4_65060_45332685	NC_021163.1	Ca_kabuli_chr04	45332685	TT	CC	1946834240
SNP_P4_65061_45333421	NC_021163.1	Ca_kabuli_chr04	45333421	AA	GG	1946834243
SNP_P4_65062_45333426	NC_021163.1	Ca_kabuli_chr04	45333426	GG	CC	1946834244
SNP_P4_65063_45333453	NC_021163.1	Ca_kabuli_chr04	45333453	AA	GG	1946834246

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_65065_45333505	NC_021163.1	Ca_kabuli_chr04	45333505	TT	CC	1946834250
SNP_P4_65066_45333731	NC_021163.1	Ca_kabuli_chr04	45333731	GG	AA	1946834252
SNP_P4_65067_45333735	NC_021163.1	Ca_kabuli_chr04	45333735	AA	GG	1946834254
SNP_P4_65068_45333753	NC_021163.1	Ca_kabuli_chr04	45333753	GG	AA	1946834256
SNP_P4_65069_45333773	NC_021163.1	Ca_kabuli_chr04	45333773	GG	AA	1946834258
SNP_P4_65070_45333777	NC_021163.1	Ca_kabuli_chr04	45333777	AA	GG	1946834260
SNP_P4_65071_45333779	NC_021163.1	Ca_kabuli_chr04	45333779	GG	AA	1946834262
SNP_P4_65072_45333866	NC_021163.1	Ca_kabuli_chr04	45333866	CC	AA	1946834264
SNP_P4_65073_45334048	NC_021163.1	Ca_kabuli_chr04	45334048	GG	AA	1946834266
SNP_P4_65074_45334067	NC_021163.1	Ca_kabuli_chr04	45334067	AA	TT	1946834268
SNP_P4_65075_45334091	NC_021163.1	Ca_kabuli_chr04	45334091	TT	CC	1946834270
SNP_P4_65076_45334097	NC_021163.1	Ca_kabuli_chr04	45334097	GG	AA	1946834272
SNP_P4_65077_45334270	NC_021163.1	Ca_kabuli_chr04	45334270	TT	GG	1946834274
SNP_P4_65078_45334402	NC_021163.1	Ca_kabuli_chr04	45334402	TT	CC	1946834276
SNP_P4_65080_45334501	NC_021163.1	Ca_kabuli_chr04	45334501	TT	AA	1946834279
SNP_P4_65081_45334601	NC_021163.1	Ca_kabuli_chr04	45334601	AA	CC	1946834281
SNP_P4_65082_45334618	NC_021163.1	Ca_kabuli_chr04	45334618	AA	GG	1946834283
SNP_P4_65083_45334638	NC_021163.1	Ca_kabuli_chr04	45334638	GG	CC	1946834284
SNP_P4_65085_45334730	NC_021163.1	Ca_kabuli_chr04	45334730	AA	GG	1946834286
SNP_P4_65086_45334776	NC_021163.1	Ca_kabuli_chr04	45334776	CC	TT	1946834288
SNP_P4_65087_45334819	NC_021163.1	Ca_kabuli_chr04	45334819	GG	AA	1946834290
SNP_P4_65089_45334896	NC_021163.1	Ca_kabuli_chr04	45334896	GG	AA	1946834292
SNP_P4_65090_45334922	NC_021163.1	Ca_kabuli_chr04	45334922	CC	TT	1946834294
SNP_P4_65092_45335033	NC_021163.1	Ca_kabuli_chr04	45335033	AA	GG	1946834296
SNP_P4_65093_45335054	NC_021163.1	Ca_kabuli_chr04	45335054	TT	GG	1946834298
SNP_P4_65094_45335433	NC_021163.1	Ca_kabuli_chr04	45335433	AA	CC	1946834300
SNP_P4_65097_45339326	NC_021163.1	Ca_kabuli_chr04	45339326	AA	GG	1946834302
SNP_P4_65098_45339980	NC_021163.1	Ca_kabuli_chr04	45339980	CC	GG	1946834304
SNP_P4_65099_45341247	NC_021163.1	Ca_kabuli_chr04	45341247	AA	GG	1946834306
SNP_P4_65101_45341521	NC_021163.1	Ca_kabuli_chr04	45341521	CC	TT	1946834308
SNP_P4_65103_45341657	NC_021163.1	Ca_kabuli_chr04	45341657	CC	GG	1946834310
SNP_P4_65104_45342282	NC_021163.1	Ca_kabuli_chr04	45342282	GG	AA	1946834312
SNP_P4_65105_45347464	NC_021163.1	Ca_kabuli_chr04	45347464	AA	GG	1946834314
SNP_P4_65106_45347724	NC_021163.1	Ca_kabuli_chr04	45347724	AA	GG	1946834316
SNP_P4_65107_45349655	NC_021163.1	Ca_kabuli_chr04	45349655	TT	CC	1946834318
SNP_P4_65108_45349784	NC_021163.1	Ca_kabuli_chr04	45349784	GG	AA	1946834320
SNP_P4_65109_45349966	NC_021163.1	Ca_kabuli_chr04	45349966	AA	GG	1946834322
SNP_P4_65110_45350842	NC_021163.1	Ca_kabuli_chr04	45350842	TT	GG	1946834324
SNP_P4_65111_45351140	NC_021163.1	Ca_kabuli_chr04	45351140	CC	TT	1946834326
SNP_P4_65112_45351146	NC_021163.1	Ca_kabuli_chr04	45351146	GG	AA	1946834329
SNP_P4_65113_45351152	NC_021163.1	Ca_kabuli_chr04	45351152	AA	GG	1946834331

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_65115_45352564	NC_021163.1	Ca_kabuli_chr04	45352564	GG	AA	1946834335
SNP_P4_65116_45353483	NC_021163.1	Ca_kabuli_chr04	45353483	CC	AA	1946834337
SNP_P4_65119_45365383	NC_021163.1	Ca_kabuli_chr04	45365383	GG	AA	1946834339
SNP_P4_65120_45366891	NC_021163.1	Ca_kabuli_chr04	45366891	AA	TT	1946834341
SNP_P4_65121_45366894	NC_021163.1	Ca_kabuli_chr04	45366894	CC	TT	1946834344
SNP_P4_65122_45366895	NC_021163.1	Ca_kabuli_chr04	45366895	CC	TT	1946834346
SNP_P4_65123_45366910	NC_021163.1	Ca_kabuli_chr04	45366910	AA	GG	1946834348
SNP_P4_65125_45368836	NC_021163.1	Ca_kabuli_chr04	45368836	GG	CC	1946834351
SNP_P4_65127_45369208	NC_021163.1	Ca_kabuli_chr04	45369208	GG	AA	1946834353
SNP_P4_65128_45369315	NC_021163.1	Ca_kabuli_chr04	45369315	AA	GG	1946834355
SNP_P4_65129_45369989	NC_021163.1	Ca_kabuli_chr04	45369989	CC	TT	1946834357
SNP_P4_65130_45369992	NC_021163.1	Ca_kabuli_chr04	45369992	GG	AA	1946834359
SNP_P4_65131_45370365	NC_021163.1	Ca_kabuli_chr04	45370365	TT	CC	1946834361
SNP_P4_65132_45370387	NC_021163.1	Ca_kabuli_chr04	45370387	TT	AA	1946834363
SNP_P4_65133_45371478	NC_021163.1	Ca_kabuli_chr04	45371478	TT	CC	1946834365
SNP_P4_65134_45371839	NC_021163.1	Ca_kabuli_chr04	45371839	GG	AA	1946834367
SNP_P4_65135_45372773	NC_021163.1	Ca_kabuli_chr04	45372773	TT	GG	1946834369
SNP_P4_65136_45372844	NC_021163.1	Ca_kabuli_chr04	45372844	TT	CC	1946834372
SNP_P4_65137_45372847	NC_021163.1	Ca_kabuli_chr04	45372847	AA	CC	1946834374
SNP_P4_65138_45372851	NC_021163.1	Ca_kabuli_chr04	45372851	TT	GG	1946834376
SNP_P4_65139_45372880	NC_021163.1	Ca_kabuli_chr04	45372880	CC	TT	1946834378
SNP_P4_65140_45372894	NC_021163.1	Ca_kabuli_chr04	45372894	CC	TT	1946834380
SNP_P4_65141_45374055	NC_021163.1	Ca_kabuli_chr04	45374055	TT	CC	1946834382
SNP_P4_65142_45375024	NC_021163.1	Ca_kabuli_chr04	45375024	CC	TT	1946834384
SNP_P4_65143_45375212	NC_021163.1	Ca_kabuli_chr04	45375212	GG	AA	1946834386
SNP_P4_65144_45375234	NC_021163.1	Ca_kabuli_chr04	45375234	CC	TT	1946834389
SNP_P4_65145_45375414	NC_021163.1	Ca_kabuli_chr04	45375414	CC	TT	1946834391
SNP_P4_65147_45376940	NC_021163.1	Ca_kabuli_chr04	45376940	GG	AA	1946834393
SNP_P4_65148_45377555	NC_021163.1	Ca_kabuli_chr04	45377555	AA	CC	1946834395
SNP_P4_65151_45377863	NC_021163.1	Ca_kabuli_chr04	45377863	GG	AA	1946834397
SNP_P4_65152_45379258	NC_021163.1	Ca_kabuli_chr04	45379258	CC	TT	1946834399
SNP_P4_65153_45383604	NC_021163.1	Ca_kabuli_chr04	45383604	TT	CC	1946834401
SNP_P4_65154_45383608	NC_021163.1	Ca_kabuli_chr04	45383608	CC	TT	1946834403
SNP_P4_65155_45384032	NC_021163.1	Ca_kabuli_chr04	45384032	CC	TT	1946834405
SNP_P4_65156_45384129	NC_021163.1	Ca_kabuli_chr04	45384129	TT	GG	1946834407
SNP_P4_65157_45384152	NC_021163.1	Ca_kabuli_chr04	45384152	AA	GG	1946834409
SNP_P4_65158_45384157	NC_021163.1	Ca_kabuli_chr04	45384157	CC	TT	1946834412
SNP_P4_65159_45384163	NC_021163.1	Ca_kabuli_chr04	45384163	GG	TT	1946834414
SNP_P4_65160_45384181	NC_021163.1	Ca_kabuli_chr04	45384181	TT	CC	1946834416
SNP_P4_65161_45384183	NC_021163.1	Ca_kabuli_chr04	45384183	CC	TT	1946834418
SNP_P4_65163_45384442	NC_021163.1	Ca_kabuli_chr04	45384442	AA	TT	1946834420

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_65165_45384609	NC_021163.1	Ca_kabuli_chr04	45384609	CC	AA	1946834424
SNP_P4_65166_45384684	NC_021163.1	Ca_kabuli_chr04	45384684	AA	CC	1946834426
SNP_P4_65167_45384714	NC_021163.1	Ca_kabuli_chr04	45384714	CC	TT	1946834427
SNP_P4_65168_45384874	NC_021163.1	Ca_kabuli_chr04	45384874	GG	TT	1946834429
SNP_P4_65169_45384914	NC_021163.1	Ca_kabuli_chr04	45384914	GG	AA	1946834431
SNP_P4_65173_45386384	NC_021163.1	Ca_kabuli_chr04	45386384	TT	CC	1946834433
SNP_P4_65174_45387728	NC_021163.1	Ca_kabuli_chr04	45387728	GG	TT	1946834435
SNP_P4_65175_45387737	NC_021163.1	Ca_kabuli_chr04	45387737	CC	TT	1946834437
SNP_P4_65176_45387833	NC_021163.1	Ca_kabuli_chr04	45387833	CC	AA	1946834439
SNP_P4_65178_45387936	NC_021163.1	Ca_kabuli_chr04	45387936	TT	CC	1946834441
SNP_P4_65179_45389918	NC_021163.1	Ca_kabuli_chr04	45389918	CC	TT	1946834443
SNP_P4_65181_45389942	NC_021163.1	Ca_kabuli_chr04	45389942	CC	TT	1946834445
SNP_P4_65182_45389957	NC_021163.1	Ca_kabuli_chr04	45389957	GG	AA	1946834448
SNP_P4_65183_45390324	NC_021163.1	Ca_kabuli_chr04	45390324	GG	TT	1946834450
SNP_P4_65184_45390374	NC_021163.1	Ca_kabuli_chr04	45390374	CC	AA	1946834452
SNP_P4_65185_45390400	NC_021163.1	Ca_kabuli_chr04	45390400	AA	GG	1946834454
SNP_P4_65186_45390413	NC_021163.1	Ca_kabuli_chr04	45390413	TT	CC	1946834456
SNP_P4_65188_45390706	NC_021163.1	Ca_kabuli_chr04	45390706	CC	TT	1946834458
SNP_P4_65189_45390715	NC_021163.1	Ca_kabuli_chr04	45390715	CC	AA	1946834460
SNP_P4_65190_45390736	NC_021163.1	Ca_kabuli_chr04	45390736	GG	TT	1946834461
SNP_P4_65191_45390799	NC_021163.1	Ca_kabuli_chr04	45390799	GG	TT	1946834463
SNP_P4_65192_45391056	NC_021163.1	Ca_kabuli_chr04	45391056	CC	AA	1946834465
SNP_P4_65193_45391058	NC_021163.1	Ca_kabuli_chr04	45391058	CC	TT	1946834467
SNP_P4_65195_45391088	NC_021163.1	Ca_kabuli_chr04	45391088	AA	TT	1946834469
SNP_P4_65196_45391091	NC_021163.1	Ca_kabuli_chr04	45391091	AA	TT	1946834471
SNP_P4_65197_45391224	NC_021163.1	Ca_kabuli_chr04	45391224	CC	TT	1946834473
SNP_P4_65198_45391351	NC_021163.1	Ca_kabuli_chr04	45391351	AA	TT	1946834475
SNP_P4_65199_45391361	NC_021163.1	Ca_kabuli_chr04	45391361	AA	GG	1946834477
SNP_P4_65200_45391368	NC_021163.1	Ca_kabuli_chr04	45391368	AA	GG	1946834479
SNP_P4_65201_45391395	NC_021163.1	Ca_kabuli_chr04	45391395	AA	GG	1946834481
SNP_P4_65202_45391467	NC_021163.1	Ca_kabuli_chr04	45391467	GG	AA	1946834483
SNP_P4_65203_45391540	NC_021163.1	Ca_kabuli_chr04	45391540	AA	GG	1946834485
SNP_P4_65205_45391934	NC_021163.1	Ca_kabuli_chr04	45391934	CC	AA	1946834487
SNP_P4_65206_45392020	NC_021163.1	Ca_kabuli_chr04	45392020	TT	CC	1946834489
SNP_P4_65207_45395105	NC_021163.1	Ca_kabuli_chr04	45395105	AA	GG	1946834491
SNP_P4_65208_45395118	NC_021163.1	Ca_kabuli_chr04	45395118	AA	TT	1946834493
SNP_P4_65209_45395163	NC_021163.1	Ca_kabuli_chr04	45395163	TT	AA	1946834495
SNP_P4_65210_45395596	NC_021163.1	Ca_kabuli_chr04	45395596	TT	AA	1946834497
SNP_P4_65211_45395610	NC_021163.1	Ca_kabuli_chr04	45395610	GG	AA	1946834499
SNP_P4_65212_45396434	NC_021163.1	Ca_kabuli_chr04	45396434	TT	AA	1946834501
SNP_P4_65213_45396452	NC_021163.1	Ca_kabuli_chr04	45396452	AA	TT	1946834503

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_65215_45396704	NC_021163.1	Ca_kabuli_chr04	45396704	CC	TT	1946834507
SNP_P4_65217_45396739	NC_021163.1	Ca_kabuli_chr04	45396739	AA	TT	1946834509
SNP_P4_65218_45396769	NC_021163.1	Ca_kabuli_chr04	45396769	AA	TT	1946834511
SNP_P4_65219_45396793	NC_021163.1	Ca_kabuli_chr04	45396793	TT	CC	1946834513
SNP_P4_65220_45396920	NC_021163.1	Ca_kabuli_chr04	45396920	GG	AA	1946834515
SNP_P4_65222_45397440	NC_021163.1	Ca_kabuli_chr04	45397440	TT	AA	1946834517
SNP_P4_65223_45397446	NC_021163.1	Ca_kabuli_chr04	45397446	AA	CC	1946834519
SNP_P4_65224_45397501	NC_021163.1	Ca_kabuli_chr04	45397501	TT	AA	1946834520
SNP_P4_65225_45399295	NC_021163.1	Ca_kabuli_chr04	45399295	AA	TT	1946834522
SNP_P4_65226_45399316	NC_021163.1	Ca_kabuli_chr04	45399316	TT	CC	1946834524
SNP_P4_65228_45399356	NC_021163.1	Ca_kabuli_chr04	45399356	TT	GG	1946834526
SNP_P4_65229_45400098	NC_021163.1	Ca_kabuli_chr04	45400098	CC	TT	1946834528
SNP_P4_65230_45400126	NC_021163.1	Ca_kabuli_chr04	45400126	GG	TT	1946834530
SNP_P4_65231_45400280	NC_021163.1	Ca_kabuli_chr04	45400280	CC	TT	1946834532
SNP_P4_65232_45400284	NC_021163.1	Ca_kabuli_chr04	45400284	CC	TT	1946834534
SNP_P4_65233_45400322	NC_021163.1	Ca_kabuli_chr04	45400322	AA	CC	1946834536
SNP_P4_65234_45400327	NC_021163.1	Ca_kabuli_chr04	45400327	CC	TT	1946834538
SNP_P4_65235_45400333	NC_021163.1	Ca_kabuli_chr04	45400333	TT	CC	1946834540
SNP_P4_65236_45400334	NC_021163.1	Ca_kabuli_chr04	45400334	TT	CC	1946834542
SNP_P4_65237_45400341	NC_021163.1	Ca_kabuli_chr04	45400341	CC	TT	1946834544
SNP_P4_65238_45400349	NC_021163.1	Ca_kabuli_chr04	45400349	GG	AA	1946834547
SNP_P4_65239_45400363	NC_021163.1	Ca_kabuli_chr04	45400363	AA	GG	1946834549
SNP_P4_65240_45400387	NC_021163.1	Ca_kabuli_chr04	45400387	AA	GG	1946834551
SNP_P4_65241_45400390	NC_021163.1	Ca_kabuli_chr04	45400390	CC	GG	1946834553
SNP_P4_65242_45400393	NC_021163.1	Ca_kabuli_chr04	45400393	AA	GG	1946834555
SNP_P4_65243_45400646	NC_021163.1	Ca_kabuli_chr04	45400646	GG	AA	1946834557
SNP_P4_65244_45400685	NC_021163.1	Ca_kabuli_chr04	45400685	GG	AA	1946834559
SNP_P4_65245_45401025	NC_021163.1	Ca_kabuli_chr04	45401025	TT	AA	1946834561
SNP_P4_65246_45401914	NC_021163.1	Ca_kabuli_chr04	45401914	TT	CC	1946834563
SNP_P4_65247_45401950	NC_021163.1	Ca_kabuli_chr04	45401950	AA	TT	1946834565
SNP_P4_65249_45404695	NC_021163.1	Ca_kabuli_chr04	45404695	AA	GG	1946834567
SNP_P4_65250_45405895	NC_021163.1	Ca_kabuli_chr04	45405895	AA	TT	1946834569
SNP_P4_65251_45406042	NC_021163.1	Ca_kabuli_chr04	45406042	GG	TT	1946834571
SNP_P4_65252_45406046	NC_021163.1	Ca_kabuli_chr04	45406046	CC	TT	1946834573
SNP_P4_65253_45407010	NC_021163.1	Ca_kabuli_chr04	45407010	CC	TT	1946834575
SNP_P4_65254_45407033	NC_021163.1	Ca_kabuli_chr04	45407033	GG	AA	1946834577
SNP_P4_65255_45407040	NC_021163.1	Ca_kabuli_chr04	45407040	AA	GG	1946834579
SNP_P4_65256_45407291	NC_021163.1	Ca_kabuli_chr04	45407291	TT	CC	1946834580
SNP_P4_65257_45407654	NC_021163.1	Ca_kabuli_chr04	45407654	GG	TT	1946834582
SNP_P4_65258_45408478	NC_021163.1	Ca_kabuli_chr04	45408478	GG	AA	1946834584
SNP_P4_65259_45411412	NC_021163.1	Ca_kabuli_chr04	45411412	TT	CC	1946834586

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_65261_45413540	NC_021163.1	Ca_kabuli_chr04	45413540	AA	GG	1946834590
SNP_P4_65262_45413556	NC_021163.1	Ca_kabuli_chr04	45413556	AA	GG	1946834592
SNP_P4_65263_45413568	NC_021163.1	Ca_kabuli_chr04	45413568	AA	GG	1946834594
SNP_P4_65264_45414005	NC_021163.1	Ca_kabuli_chr04	45414005	AA	GG	1946834596
SNP_P4_65265_45414041	NC_021163.1	Ca_kabuli_chr04	45414041	GG	AA	1946834598
SNP_P4_65266_45414044	NC_021163.1	Ca_kabuli_chr04	45414044	TT	CC	1946834600
SNP_P4_65267_45414323	NC_021163.1	Ca_kabuli_chr04	45414323	AA	TT	1946834602
SNP_P4_65268_45414357	NC_021163.1	Ca_kabuli_chr04	45414357	CC	AA	1946834604
SNP_P4_65269_45414371	NC_021163.1	Ca_kabuli_chr04	45414371	TT	AA	1946834606
SNP_P4_65270_45414580	NC_021163.1	Ca_kabuli_chr04	45414580	AA	TT	1946834608
SNP_P4_65272_45415118	NC_021163.1	Ca_kabuli_chr04	45415118	AA	GG	1946834610
SNP_P4_65274_45415791	NC_021163.1	Ca_kabuli_chr04	45415791	TT	AA	1946834612
SNP_P4_65275_45416481	NC_021163.1	Ca_kabuli_chr04	45416481	AA	GG	1946834614
SNP_P4_65276_45416833	NC_021163.1	Ca_kabuli_chr04	45416833	AA	CC	1946834616
SNP_P4_65277_45416845	NC_021163.1	Ca_kabuli_chr04	45416845	AA	TT	1946834618
SNP_P4_65278_45416858	NC_021163.1	Ca_kabuli_chr04	45416858	TT	AA	1946834620
SNP_P4_65279_45416874	NC_021163.1	Ca_kabuli_chr04	45416874	CC	TT	1946834622
SNP_P4_65280_45416879	NC_021163.1	Ca_kabuli_chr04	45416879	TT	AA	1946834624
SNP_P4_65283_45417444	NC_021163.1	Ca_kabuli_chr04	45417444	GG	AA	1946834626
SNP_P4_65284_45417741	NC_021163.1	Ca_kabuli_chr04	45417741	TT	AA	1946834628
SNP_P4_65285_45418058	NC_021163.1	Ca_kabuli_chr04	45418058	GG	AA	1946834630
SNP_P4_65286_45418059	NC_021163.1	Ca_kabuli_chr04	45418059	GG	AA	1946834632
SNP_P4_65287_45418060	NC_021163.1	Ca_kabuli_chr04	45418060	CC	AA	1946834634
SNP_P4_65288_45418064	NC_021163.1	Ca_kabuli_chr04	45418064	GG	AA	1946834636
SNP_P4_65289_45418257	NC_021163.1	Ca_kabuli_chr04	45418257	TT	AA	1946834638
SNP_P4_65290_45418275	NC_021163.1	Ca_kabuli_chr04	45418275	CC	TT	1946834640
SNP_P4_65291_45418312	NC_021163.1	Ca_kabuli_chr04	45418312	CC	TT	1946834642
SNP_P4_65292_45418323	NC_021163.1	Ca_kabuli_chr04	45418323	CC	AA	1946834644
SNP_P4_65293_45420193	NC_021163.1	Ca_kabuli_chr04	45420193	CC	TT	1946834646
SNP_P4_65294_45420949	NC_021163.1	Ca_kabuli_chr04	45420949	CC	TT	1946834648
SNP_P4_65295_45420966	NC_021163.1	Ca_kabuli_chr04	45420966	CC	GG	1946834650
SNP_P4_65296_45421482	NC_021163.1	Ca_kabuli_chr04	45421482	TT	AA	1946834652
SNP_P4_65297_45422280	NC_021163.1	Ca_kabuli_chr04	45422280	CC	TT	1946834654
SNP_P4_65298_45422326	NC_021163.1	Ca_kabuli_chr04	45422326	AA	CC	1946834656
SNP_P4_65299_45422329	NC_021163.1	Ca_kabuli_chr04	45422329	TT	CC	1946834658
SNP_P4_65300_45422352	NC_021163.1	Ca_kabuli_chr04	45422352	CC	TT	1946834660
SNP_P4_65301_45422617	NC_021163.1	Ca_kabuli_chr04	45422617	TT	CC	1946834662
SNP_P4_65302_45422625	NC_021163.1	Ca_kabuli_chr04	45422625	GG	TT	1946834664
SNP_P4_65303_45422635	NC_021163.1	Ca_kabuli_chr04	45422635	AA	GG	1946834666
SNP_P4_65304_45422746	NC_021163.1	Ca_kabuli_chr04	45422746	TT	CC	1946834669
SNP_P4_65305_45422755	NC_021163.1	Ca_kabuli_chr04	45422755	CC	TT	1946834671

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_65307_45422980	NC_021163.1	Ca_kabuli_chr04	45422980	GG	AA	1946834675
SNP_P4_65308_45423019	NC_021163.1	Ca_kabuli_chr04	45423019	AA	TT	1946834677
SNP_P4_65309_45423025	NC_021163.1	Ca_kabuli_chr04	45423025	CC	TT	1946834679
SNP_P4_65310_45423029	NC_021163.1	Ca_kabuli_chr04	45423029	AA	GG	1946834681
SNP_P4_65311_45429205	NC_021163.1	Ca_kabuli_chr04	45429205	GG	TT	1946834683
SNP_P4_65312_45429371	NC_021163.1	Ca_kabuli_chr04	45429371	CC	TT	1946834685
SNP_P4_65313_45429401	NC_021163.1	Ca_kabuli_chr04	45429401	AA	GG	1946834687
SNP_P4_65314_45429420	NC_021163.1	Ca_kabuli_chr04	45429420	AA	GG	1946834689
SNP_P4_65315_45429427	NC_021163.1	Ca_kabuli_chr04	45429427	GG	CC	1946834691
SNP_P4_65316_45430558	NC_021163.1	Ca_kabuli_chr04	45430558	CC	TT	1946834693
SNP_P4_65317_45430562	NC_021163.1	Ca_kabuli_chr04	45430562	AA	GG	1946834695
SNP_P4_65318_45430576	NC_021163.1	Ca_kabuli_chr04	45430576	TT	GG	1946834697
SNP_P4_65319_45430682	NC_021163.1	Ca_kabuli_chr04	45430682	GG	TT	1946834698
SNP_P4_65320_45430683	NC_021163.1	Ca_kabuli_chr04	45430683	GG	TT	1946834700
SNP_P4_65321_45431002	NC_021163.1	Ca_kabuli_chr04	45431002	AA	CC	1946834702
SNP_P4_65322_45431097	NC_021163.1	Ca_kabuli_chr04	45431097	CC	AA	1946834704
SNP_P4_65325_45431384	NC_021163.1	Ca_kabuli_chr04	45431384	CC	TT	1946834706
SNP_P4_65327_45432288	NC_021163.1	Ca_kabuli_chr04	45432288	CC	AA	1946834708
SNP_P4_65328_45432356	NC_021163.1	Ca_kabuli_chr04	45432356	GG	AA	1946834710
SNP_P4_65329_45432428	NC_021163.1	Ca_kabuli_chr04	45432428	GG	AA	1946834712
SNP_P4_65330_45433454	NC_021163.1	Ca_kabuli_chr04	45433454	CC	TT	1946834714
SNP_P4_65331_45433940	NC_021163.1	Ca_kabuli_chr04	45433940	CC	AA	1946834716
SNP_P4_65332_45433957	NC_021163.1	Ca_kabuli_chr04	45433957	GG	AA	1946834718
SNP_P4_65334_45434604	NC_021163.1	Ca_kabuli_chr04	45434604	CC	TT	1946834720
SNP_P4_65335_45434731	NC_021163.1	Ca_kabuli_chr04	45434731	GG	AA	1946834722
SNP_P4_65337_45435256	NC_021163.1	Ca_kabuli_chr04	45435256	AA	TT	1946834724
SNP_P4_65339_45436269	NC_021163.1	Ca_kabuli_chr04	45436269	TT	AA	1946834726
SNP_P4_65342_45437602	NC_021163.1	Ca_kabuli_chr04	45437602	GG	AA	1946834728
SNP_P4_65343_45437802	NC_021163.1	Ca_kabuli_chr04	45437802	GG	CC	1946834730
SNP_P4_65345_45438344	NC_021163.1	Ca_kabuli_chr04	45438344	GG	TT	1946834732
SNP_P4_65346_45438358	NC_021163.1	Ca_kabuli_chr04	45438358	AA	CC	1946834734
SNP_P4_65347_45438519	NC_021163.1	Ca_kabuli_chr04	45438519	GG	AA	1946834736
SNP_P4_65348_45438526	NC_021163.1	Ca_kabuli_chr04	45438526	TT	CC	1946834738
SNP_P4_65349_45438535	NC_021163.1	Ca_kabuli_chr04	45438535	AA	CC	1946834740
SNP_P4_65350_45438540	NC_021163.1	Ca_kabuli_chr04	45438540	TT	CC	1946834742
SNP_P4_65351_45438670	NC_021163.1	Ca_kabuli_chr04	45438670	CC	TT	1946834744
SNP_P4_65352_45438684	NC_021163.1	Ca_kabuli_chr04	45438684	GG	AA	1946834746
SNP_P4_65353_45438716	NC_021163.1	Ca_kabuli_chr04	45438716	TT	CC	1946834748
SNP_P4_65355_45439659	NC_021163.1	Ca_kabuli_chr04	45439659	AA	CC	1946834750
SNP_P4_65356_45439677	NC_021163.1	Ca_kabuli_chr04	45439677	TT	CC	1946834752
SNP_P4_65357_45439701	NC_021163.1	Ca_kabuli_chr04	45439701	GG	AA	1946834754

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_65359_45439971	NC_021163.1	Ca_kabuli_chr04	45439971	GG	AA	1946834758
SNP_P4_65360_45439973	NC_021163.1	Ca_kabuli_chr04	45439973	GG	AA	1946834761
SNP_P4_65361_45440342	NC_021163.1	Ca_kabuli_chr04	45440342	TT	GG	1946834762
SNP_P4_65362_45440353	NC_021163.1	Ca_kabuli_chr04	45440353	CC	TT	1946834764
SNP_P4_65364_45441214	NC_021163.1	Ca_kabuli_chr04	45441214	CC	TT	1946834767
SNP_P4_65366_45441520	NC_021163.1	Ca_kabuli_chr04	45441520	CC	TT	1946834769
SNP_P4_65367_45441545	NC_021163.1	Ca_kabuli_chr04	45441545	CC	TT	1946834771
SNP_P4_65368_45441583	NC_021163.1	Ca_kabuli_chr04	45441583	GG	CC	1946834772
SNP_P4_65370_45453628	NC_021163.1	Ca_kabuli_chr04	45453628	AA	TT	1946834774
SNP_P4_65371_45470106	NC_021163.1	Ca_kabuli_chr04	45470106	GG	TT	1946834776
SNP_P4_65372_45472043	NC_021163.1	Ca_kabuli_chr04	45472043	GG	TT	1946834778
SNP_P4_65373_45472250	NC_021163.1	Ca_kabuli_chr04	45472250	GG	AA	1946834780
SNP_P4_65375_45501118	NC_021163.1	Ca_kabuli_chr04	45501118	AA	TT	1946834782
SNP_P4_65376_45502741	NC_021163.1	Ca_kabuli_chr04	45502741	AA	CC	1946834784
SNP_P4_65377_45507934	NC_021163.1	Ca_kabuli_chr04	45507934	CC	GG	1946834786
SNP_P4_65379_45551595	NC_021163.1	Ca_kabuli_chr04	45551595	CC	TT	1946834788
SNP_P4_65382_45575040	NC_021163.1	Ca_kabuli_chr04	45575040	AA	GG	1946834790
SNP_P4_65384_45589759	NC_021163.1	Ca_kabuli_chr04	45589759	GG	AA	1946834792
SNP_P4_65385_45589880	NC_021163.1	Ca_kabuli_chr04	45589880	TT	CC	1946834794
SNP_P4_65386_45590166	NC_021163.1	Ca_kabuli_chr04	45590166	GG	AA	1946834797
SNP_P4_65389_45599372	NC_021163.1	Ca_kabuli_chr04	45599372	TT	CC	1946834799
SNP_P4_65390_45645573	NC_021163.1	Ca_kabuli_chr04	45645573	AA	GG	1946834801
SNP_P4_65391_45645663	NC_021163.1	Ca_kabuli_chr04	45645663	GG	AA	1946834803
SNP_P4_65392_45645926	NC_021163.1	Ca_kabuli_chr04	45645926	AA	CC	1946834805
SNP_P4_65394_45646086	NC_021163.1	Ca_kabuli_chr04	45646086	TT	AA	1946834807
SNP_P4_65395_45646089	NC_021163.1	Ca_kabuli_chr04	45646089	CC	AA	1946834809
SNP_P4_65396_45668626	NC_021163.1	Ca_kabuli_chr04	45668626	CC	GG	1946834811
SNP_P4_65398_45709391	NC_021163.1	Ca_kabuli_chr04	45709391	TT	AA	1946834813
SNP_P4_65399_45709392	NC_021163.1	Ca_kabuli_chr04	45709392	AA	CC	1946834815
SNP_P4_65400_45714154	NC_021163.1	Ca_kabuli_chr04	45714154	TT	AA	1946834817
SNP_P4_65401_45730193	NC_021163.1	Ca_kabuli_chr04	45730193	AA	CC	1946834819
SNP_P4_65402_45735828	NC_021163.1	Ca_kabuli_chr04	45735828	CC	TT	1946834821
SNP_P4_65403_45736176	NC_021163.1	Ca_kabuli_chr04	45736176	GG	CC	1946834823
SNP_P4_65405_45752662	NC_021163.1	Ca_kabuli_chr04	45752662	CC	TT	1946834825
SNP_P4_65406_45752663	NC_021163.1	Ca_kabuli_chr04	45752663	AA	GG	1946834827
SNP_P4_65407_45752707	NC_021163.1	Ca_kabuli_chr04	45752707	CC	TT	1946834829
SNP_P4_65408_45752981	NC_021163.1	Ca_kabuli_chr04	45752981	GG	TT	1946834831
SNP_P4_65409_45756241	NC_021163.1	Ca_kabuli_chr04	45756241	AA	GG	1946834833
SNP_P4_65410_45756317	NC_021163.1	Ca_kabuli_chr04	45756317	TT	CC	1946834835
SNP_P4_65411_45756408	NC_021163.1	Ca_kabuli_chr04	45756408	GG	TT	1946834837
SNP_P4_65412_45756574	NC_021163.1	Ca_kabuli_chr04	45756574	AA	TT	1946834839

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_65414_45756592	NC_021163.1	Ca_kabuli_chr04	45756592	GG	TT	1946834843
SNP_P4_65415_45756594	NC_021163.1	Ca_kabuli_chr04	45756594	GG	AA	1946834845
SNP_P4_65416_45756597	NC_021163.1	Ca_kabuli_chr04	45756597	TT	AA	1946834847
SNP_P4_65417_45756714	NC_021163.1	Ca_kabuli_chr04	45756714	GG	CC	1946834849
SNP_P4_65419_45767751	NC_021163.1	Ca_kabuli_chr04	45767751	CC	TT	1946834851
SNP_P4_65420_45767760	NC_021163.1	Ca_kabuli_chr04	45767760	AA	GG	1946834853
SNP_P4_65421_45767795	NC_021163.1	Ca_kabuli_chr04	45767795	AA	GG	1946834855
SNP_P4_65422_45771282	NC_021163.1	Ca_kabuli_chr04	45771282	CC	AA	1946834857
SNP_P4_65423_45793338	NC_021163.1	Ca_kabuli_chr04	45793338	TT	CC	1946834859
SNP_P4_65424_45825733	NC_021163.1	Ca_kabuli_chr04	45825733	GG	AA	1946834861
SNP_P4_65425_45826278	NC_021163.1	Ca_kabuli_chr04	45826278	TT	CC	1946834863
SNP_P4_65426_45828352	NC_021163.1	Ca_kabuli_chr04	45828352	GG	AA	1946834865
SNP_P4_65428_45849174	NC_021163.1	Ca_kabuli_chr04	45849174	TT	AA	1946834867
SNP_P4_65429_45849201	NC_021163.1	Ca_kabuli_chr04	45849201	TT	CC	1946834869
SNP_P4_65430_45849418	NC_021163.1	Ca_kabuli_chr04	45849418	TT	GG	1946834870
SNP_P4_65432_45888339	NC_021163.1	Ca_kabuli_chr04	45888339	CC	TT	1946834872
SNP_P4_65433_45892267	NC_021163.1	Ca_kabuli_chr04	45892267	CC	TT	1946834874
SNP_P4_65434_45903330	NC_021163.1	Ca_kabuli_chr04	45903330	TT	CC	1946834876
SNP_P4_65435_45915877	NC_021163.1	Ca_kabuli_chr04	45915877	CC	TT	1946834878
SNP_P4_65437_45934006	NC_021163.1	Ca_kabuli_chr04	45934006	GG	AA	1946834880
SNP_P4_65438_45941971	NC_021163.1	Ca_kabuli_chr04	45941971	CC	TT	1946834882
SNP_P4_65439_45948691	NC_021163.1	Ca_kabuli_chr04	45948691	AA	GG	1946834884
SNP_P4_65441_45949984	NC_021163.1	Ca_kabuli_chr04	45949984	GG	TT	1946834886
SNP_P4_65442_45953953	NC_021163.1	Ca_kabuli_chr04	45953953	TT	CC	1946834888
SNP_P4_65444_45974911	NC_021163.1	Ca_kabuli_chr04	45974911	GG	TT	1946834890
SNP_P4_65447_46005900	NC_021163.1	Ca_kabuli_chr04	46005900	GG	AA	1946834892
SNP_P4_65448_46005907	NC_021163.1	Ca_kabuli_chr04	46005907	AA	GG	1946834894
SNP_P4_65449_46005925	NC_021163.1	Ca_kabuli_chr04	46005925	GG	AA	1946834896
SNP_P4_65450_46005941	NC_021163.1	Ca_kabuli_chr04	46005941	CC	TT	1946834898
SNP_P4_65451_46005949	NC_021163.1	Ca_kabuli_chr04	46005949	AA	GG	1946834900
SNP_P4_65452_46005950	NC_021163.1	Ca_kabuli_chr04	46005950	GG	AA	1946834902
SNP_P4_65453_46005956	NC_021163.1	Ca_kabuli_chr04	46005956	CC	TT	1946834904
SNP_P4_65455_46026852	NC_021163.1	Ca_kabuli_chr04	46026852	AA	GG	1946834906
SNP_P4_65456_46026867	NC_021163.1	Ca_kabuli_chr04	46026867	GG	AA	1946834908
SNP_P4_65457_46027076	NC_021163.1	Ca_kabuli_chr04	46027076	TT	AA	1946834910
SNP_P4_65458_46027446	NC_021163.1	Ca_kabuli_chr04	46027446	GG	CC	1946834912
SNP_P4_65459_46031841	NC_021163.1	Ca_kabuli_chr04	46031841	CC	TT	1946834914
SNP_P4_65460_46031891	NC_021163.1	Ca_kabuli_chr04	46031891	CC	TT	1946834916
SNP_P4_65462_46035639	NC_021163.1	Ca_kabuli_chr04	46035639	TT	CC	1946834918
SNP_P4_65463_46040213	NC_021163.1	Ca_kabuli_chr04	46040213	TT	AA	1946834920
SNP_P4_65464_46040214	NC_021163.1	Ca_kabuli_chr04	46040214	CC	TT	1946834922

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_65467_46057362	NC_021163.1	Ca_kabuli_chr04	46057362	GG	AA	1946834926
SNP_P4_65470_46060502	NC_021163.1	Ca_kabuli_chr04	46060502	AA	GG	1946834928
SNP_P4_65471_46060549	NC_021163.1	Ca_kabuli_chr04	46060549	AA	GG	1946834930
SNP_P4_65472_46081408	NC_021163.1	Ca_kabuli_chr04	46081408	AA	GG	1946834932
SNP_P4_65473_46106806	NC_021163.1	Ca_kabuli_chr04	46106806	AA	TT	1946834935
SNP_P4_65474_46113290	NC_021163.1	Ca_kabuli_chr04	46113290	GG	AA	1946834937
SNP_P4_65475_46113467	NC_021163.1	Ca_kabuli_chr04	46113467	GG	AA	1946834939
SNP_P4_65476_46127896	NC_021163.1	Ca_kabuli_chr04	46127896	AA	TT	1946834941
SNP_P4_65477_46128767	NC_021163.1	Ca_kabuli_chr04	46128767	AA	CC	1946834943
SNP_P4_65478_46130824	NC_021163.1	Ca_kabuli_chr04	46130824	AA	GG	1946834945
SNP_P4_65480_46141275	NC_021163.1	Ca_kabuli_chr04	46141275	AA	TT	1946834947
SNP_P4_65483_46191224	NC_021163.1	Ca_kabuli_chr04	46191224	AA	TT	1946834949
SNP_P4_65484_46228218	NC_021163.1	Ca_kabuli_chr04	46228218	TT	CC	1946834951
SNP_P4_65485_46239828	NC_021163.1	Ca_kabuli_chr04	46239828	CC	GG	1946834953
SNP_P4_65486_46243078	NC_021163.1	Ca_kabuli_chr04	46243078	TT	CC	1946834955
SNP_P4_65487_46282668	NC_021163.1	Ca_kabuli_chr04	46282668	CC	GG	1946834957
SNP_P4_65488_46321989	NC_021163.1	Ca_kabuli_chr04	46321989	AA	GG	1946834959
SNP_P4_65489_46322024	NC_021163.1	Ca_kabuli_chr04	46322024	AA	GG	1946834961
SNP_P4_65490_46322268	NC_021163.1	Ca_kabuli_chr04	46322268	AA	GG	1946834963
SNP_P4_65491_46322341	NC_021163.1	Ca_kabuli_chr04	46322341	GG	AA	1946834965
SNP_P4_65492_46322521	NC_021163.1	Ca_kabuli_chr04	46322521	GG	AA	1946834967
SNP_P4_65493_46322553	NC_021163.1	Ca_kabuli_chr04	46322553	GG	TT	1946834969
SNP_P4_65494_46322560	NC_021163.1	Ca_kabuli_chr04	46322560	AA	GG	1946834971
SNP_P4_65495_46322812	NC_021163.1	Ca_kabuli_chr04	46322812	TT	CC	1946834973
SNP_P4_65496_46322831	NC_021163.1	Ca_kabuli_chr04	46322831	TT	GG	1946834975
SNP_P4_65497_46322866	NC_021163.1	Ca_kabuli_chr04	46322866	TT	CC	1946834977
SNP_P4_65498_46322869	NC_021163.1	Ca_kabuli_chr04	46322869	TT	CC	1946834979
SNP_P4_65499_46322879	NC_021163.1	Ca_kabuli_chr04	46322879	GG	AA	1946834981
SNP_P4_65500_46377539	NC_021163.1	Ca_kabuli_chr04	46377539	AA	TT	1946834983
SNP_P4_65503_46385863	NC_021163.1	Ca_kabuli_chr04	46385863	AA	GG	1946834985
SNP_P4_65504_46385956	NC_021163.1	Ca_kabuli_chr04	46385956	CC	AA	1946834987
SNP_P4_65505_46388109	NC_021163.1	Ca_kabuli_chr04	46388109	AA	GG	1946834989
SNP_P4_65506_46388170	NC_021163.1	Ca_kabuli_chr04	46388170	GG	TT	1946834991
SNP_P4_65507_46388342	NC_021163.1	Ca_kabuli_chr04	46388342	CC	AA	1946834993
SNP_P4_65509_46426419	NC_021163.1	Ca_kabuli_chr04	46426419	GG	AA	1946834995
SNP_P4_65510_46471787	NC_021163.1	Ca_kabuli_chr04	46471787	AA	GG	1946834997
SNP_P4_65511_46472367	NC_021163.1	Ca_kabuli_chr04	46472367	AA	TT	1946834999
SNP_P4_65512_46473881	NC_021163.1	Ca_kabuli_chr04	46473881	AA	TT	1946835001
SNP_P4_65513_46473904	NC_021163.1	Ca_kabuli_chr04	46473904	AA	GG	1946835003
SNP_P4_65514_46473923	NC_021163.1	Ca_kabuli_chr04	46473923	CC	AA	1946835005
SNP_P4_65515_46492908	NC_021163.1	Ca_kabuli_chr04	46492908	TT	CC	1946835007

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_65518_46492994	NC_021163.1	Ca_kabuli_chr04	46492994	GG	AA	1946835013
SNP_P4_65521_46494958	NC_021163.1	Ca_kabuli_chr04	46494958	AA	GG	1946835015
SNP_P4_65522_46494983	NC_021163.1	Ca_kabuli_chr04	46494983	TT	AA	1946835017
SNP_P4_65524_46495131	NC_021163.1	Ca_kabuli_chr04	46495131	AA	CC	1946835019
SNP_P4_65525_46495162	NC_021163.1	Ca_kabuli_chr04	46495162	TT	AA	1946835022
SNP_P4_65526_46495311	NC_021163.1	Ca_kabuli_chr04	46495311	TT	AA	1946835024
SNP_P4_65527_46495398	NC_021163.1	Ca_kabuli_chr04	46495398	AA	GG	1946835026
SNP_P4_65528_46495580	NC_021163.1	Ca_kabuli_chr04	46495580	AA	GG	1946835028
SNP_P4_65529_46495585	NC_021163.1	Ca_kabuli_chr04	46495585	GG	AA	1946835030
SNP_P4_65532_46514924	NC_021163.1	Ca_kabuli_chr04	46514924	CC	AA	1946835033
SNP_P4_65533_46539348	NC_021163.1	Ca_kabuli_chr04	46539348	GG	CC	1946835035
SNP_P4_65534_46539586	NC_021163.1	Ca_kabuli_chr04	46539586	AA	GG	1946835037
SNP_P4_65535_46546977	NC_021163.1	Ca_kabuli_chr04	46546977	CC	TT	1946835039
SNP_P4_65537_46561484	NC_021163.1	Ca_kabuli_chr04	46561484	TT	AA	1946835041
SNP_P4_65538_46581281	NC_021163.1	Ca_kabuli_chr04	46581281	GG	AA	1946835043
SNP_P4_65540_46583353	NC_021163.1	Ca_kabuli_chr04	46583353	GG	AA	1946835045
SNP_P4_65541_46594700	NC_021163.1	Ca_kabuli_chr04	46594700	AA	TT	1946835047
SNP_P4_65542_46597677	NC_021163.1	Ca_kabuli_chr04	46597677	TT	GG	1946835049
SNP_P4_65543_46606380	NC_021163.1	Ca_kabuli_chr04	46606380	GG	TT	1946835051
SNP_P4_65544_46615573	NC_021163.1	Ca_kabuli_chr04	46615573	AA	GG	1946835053
SNP_P4_65545_46621877	NC_021163.1	Ca_kabuli_chr04	46621877	AA	GG	1946835055
SNP_P4_65546_46636542	NC_021163.1	Ca_kabuli_chr04	46636542	CC	GG	1946835057
SNP_P4_65547_46641461	NC_021163.1	Ca_kabuli_chr04	46641461	TT	CC	1946835059
SNP_P4_65548_46647091	NC_021163.1	Ca_kabuli_chr04	46647091	AA	GG	1946835061
SNP_P4_65549_46647092	NC_021163.1	Ca_kabuli_chr04	46647092	AA	CC	1946835063
SNP_P4_65550_46657858	NC_021163.1	Ca_kabuli_chr04	46657858	TT	AA	1946835065
SNP_P4_65552_46675101	NC_021163.1	Ca_kabuli_chr04	46675101	TT	CC	1946835067
SNP_P4_65554_46688797	NC_021163.1	Ca_kabuli_chr04	46688797	TT	AA	1946835069
SNP_P4_65555_46705812	NC_021163.1	Ca_kabuli_chr04	46705812	CC	GG	1946835072
SNP_P4_65556_46705819	NC_021163.1	Ca_kabuli_chr04	46705819	CC	TT	1946835074
SNP_P4_65557_46705824	NC_021163.1	Ca_kabuli_chr04	46705824	CC	AA	1946835076
SNP_P4_65558_46705835	NC_021163.1	Ca_kabuli_chr04	46705835	CC	TT	1946835078
SNP_P4_65559_46705858	NC_021163.1	Ca_kabuli_chr04	46705858	TT	AA	1946835080
SNP_P4_65560_46706563	NC_021163.1	Ca_kabuli_chr04	46706563	CC	TT	1946835082
SNP_P4_65561_46708301	NC_021163.1	Ca_kabuli_chr04	46708301	GG	AA	1946835084
SNP_P4_65563_46708470	NC_021163.1	Ca_kabuli_chr04	46708470	AA	CC	1946835086
SNP_P4_65564_46708837	NC_021163.1	Ca_kabuli_chr04	46708837	GG	CC	1946835088
SNP_P4_65565_46708863	NC_021163.1	Ca_kabuli_chr04	46708863	TT	AA	1946835090
SNP_P4_65566_46708872	NC_021163.1	Ca_kabuli_chr04	46708872	GG	AA	1946835092
SNP_P4_65567_46709769	NC_021163.1	Ca_kabuli_chr04	46709769	GG	AA	1946835094

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_65569_46709782	NC_021163.1	Ca_kabuli_chr04	46709782	TT	AA	1946835098
SNP_P4_65570_46709793	NC_021163.1	Ca_kabuli_chr04	46709793	TT	CC	1946835100
SNP_P4_65571_46709911	NC_021163.1	Ca_kabuli_chr04	46709911	CC	TT	1946835102
SNP_P4_65572_46710092	NC_021163.1	Ca_kabuli_chr04	46710092	GG	AA	1946835104
SNP_P4_65573_46710101	NC_021163.1	Ca_kabuli_chr04	46710101	AA	TT	1946835106
SNP_P4_65574_46710144	NC_021163.1	Ca_kabuli_chr04	46710144	CC	TT	1946835108
SNP_P4_65575_46710292	NC_021163.1	Ca_kabuli_chr04	46710292	CC	TT	1946835110
SNP_P4_65576_46710315	NC_021163.1	Ca_kabuli_chr04	46710315	TT	CC	1946835112
SNP_P4_65577_46710413	NC_021163.1	Ca_kabuli_chr04	46710413	AA	GG	1946835114
SNP_P4_65578_46710467	NC_021163.1	Ca_kabuli_chr04	46710467	CC	TT	1946835116
SNP_P4_65579_46710504	NC_021163.1	Ca_kabuli_chr04	46710504	GG	TT	1946835118
SNP_P4_65580_46710534	NC_021163.1	Ca_kabuli_chr04	46710534	CC	AA	1946835120
SNP_P4_65581_46710755	NC_021163.1	Ca_kabuli_chr04	46710755	CC	AA	1946835122
SNP_P4_65582_46711452	NC_021163.1	Ca_kabuli_chr04	46711452	AA	TT	1946835124
SNP_P4_65584_46712394	NC_021163.1	Ca_kabuli_chr04	46712394	TT	GG	1946835126
SNP_P4_65585_46713145	NC_021163.1	Ca_kabuli_chr04	46713145	CC	TT	1946835128
SNP_P4_65587_46717200	NC_021163.1	Ca_kabuli_chr04	46717200	CC	TT	1946835130
SNP_P4_65588_46717337	NC_021163.1	Ca_kabuli_chr04	46717337	TT	CC	1946835132
SNP_P4_65589_46717537	NC_021163.1	Ca_kabuli_chr04	46717537	AA	GG	1946835134
SNP_P4_65590_46723483	NC_021163.1	Ca_kabuli_chr04	46723483	AA	TT	1946835136
SNP_P4_65591_46725985	NC_021163.1	Ca_kabuli_chr04	46725985	AA	CC	1946835138
SNP_P4_65592_46726169	NC_021163.1	Ca_kabuli_chr04	46726169	GG	AA	1946835140
SNP_P4_65593_46726178	NC_021163.1	Ca_kabuli_chr04	46726178	GG	AA	1946835142
SNP_P4_65594_46726341	NC_021163.1	Ca_kabuli_chr04	46726341	TT	CC	1946835144
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SNP_P4_65596_46727698	NC_021163.1	Ca_kabuli_chr04	46727698	AA	GG	1946835148
SNP_P4_65597_46727781	NC_021163.1	Ca_kabuli_chr04	46727781	TT	AA	1946835150
SNP_P4_65598_46728872	NC_021163.1	Ca_kabuli_chr04	46728872	AA	GG	1946835152
SNP_P4_65601_46730423	NC_021163.1	Ca_kabuli_chr04	46730423	TT	AA	1946835154
SNP_P4_65602_46730428	NC_021163.1	Ca_kabuli_chr04	46730428	TT	CC	1946835156
SNP_P4_65604_46730677	NC_021163.1	Ca_kabuli_chr04	46730677	GG	TT	1946835158
SNP_P4_65605_46730679	NC_021163.1	Ca_kabuli_chr04	46730679	CC	TT	1946835160
SNP_P4_65606_46730696	NC_021163.1	Ca_kabuli_chr04	46730696	TT	CC	1946835162
SNP_P4_65607_46730702	NC_021163.1	Ca_kabuli_chr04	46730702	AA	GG	1946835164
SNP_P4_65608_46730768	NC_021163.1	Ca_kabuli_chr04	46730768	CC	TT	1946835166
SNP_P4_65609_46730872	NC_021163.1	Ca_kabuli_chr04	46730872	TT	CC	1946835168
SNP_P4_65610_46730877	NC_021163.1	Ca_kabuli_chr04	46730877	TT	AA	1946835170
SNP_P4_65611_46730880	NC_021163.1	Ca_kabuli_chr04	46730880	GG	TT	1946835172
SNP_P4_65613_46730957	NC_021163.1	Ca_kabuli_chr04	46730957	TT	CC	1946835174
SNP_P4_65614_46730969	NC_021163.1	Ca_kabuli_chr04	46730969	TT	CC	1946835176
SNP_P4_65615_46731155	NC_021163.1	Ca_kabuli_chr04	46731155	GG	CC	1946835179

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_65617_46732476	NC_021163.1	Ca_kabuli_chr04	46732476	CC	GG	1946835183
SNP_P4_65619_46732531	NC_021163.1	Ca_kabuli_chr04	46732531	TT	AA	1946835185
SNP_P4_65620_46733965	NC_021163.1	Ca_kabuli_chr04	46733965	AA	GG	1946835188
SNP_P4_65621_46734047	NC_021163.1	Ca_kabuli_chr04	46734047	GG	AA	1946835190
SNP_P4_65622_46734469	NC_021163.1	Ca_kabuli_chr04	46734469	CC	TT	1946835192
SNP_P4_65623_46734522	NC_021163.1	Ca_kabuli_chr04	46734522	GG	AA	1946835194
SNP_P4_65624_46734525	NC_021163.1	Ca_kabuli_chr04	46734525	TT	CC	1946835196
SNP_P4_65625_46734651	NC_021163.1	Ca_kabuli_chr04	46734651	GG	AA	1946835198
SNP_P4_65626_46734701	NC_021163.1	Ca_kabuli_chr04	46734701	AA	TT	1946835200
SNP_P4_65627_46734705	NC_021163.1	Ca_kabuli_chr04	46734705	CC	TT	1946835202
SNP_P4_65628_46734724	NC_021163.1	Ca_kabuli_chr04	46734724	GG	TT	1946835204
SNP_P4_65629_46735746	NC_021163.1	Ca_kabuli_chr04	46735746	TT	CC	1946835206
SNP_P4_65630_46735784	NC_021163.1	Ca_kabuli_chr04	46735784	GG	TT	1946835208
SNP_P4_65631_46735833	NC_021163.1	Ca_kabuli_chr04	46735833	AA	GG	1946835210
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SNP_P4_65634_46736007	NC_021163.1	Ca_kabuli_chr04	46736007	TT	CC	1946835212
SNP_P4_65635_46736124	NC_021163.1	Ca_kabuli_chr04	46736124	AA	CC	1946835213
SNP_P4_65636_46736179	NC_021163.1	Ca_kabuli_chr04	46736179	GG	AA	1946835214
SNP_P4_65637_46736306	NC_021163.1	Ca_kabuli_chr04	46736306	GG	CC	1946835215
SNP_P4_65639_46736389	NC_021163.1	Ca_kabuli_chr04	46736389	GG	AA	1946835218
SNP_P4_65640_46736785	NC_021163.1	Ca_kabuli_chr04	46736785	CC	TT	1946835220
SNP_P4_65641_46736847	NC_021163.1	Ca_kabuli_chr04	46736847	TT	CC	1946835222
SNP_P4_65642_46736862	NC_021163.1	Ca_kabuli_chr04	46736862	TT	CC	1946835224
SNP_P4_65643_46736929	NC_021163.1	Ca_kabuli_chr04	46736929	AA	GG	1946835226
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SNP_P4_65647_46737570	NC_021163.1	Ca_kabuli_chr04	46737570	GG	CC	1946835234
SNP_P4_65648_46737580	NC_021163.1	Ca_kabuli_chr04	46737580	GG	TT	1946835236
SNP_P4_65649_46737747	NC_021163.1	Ca_kabuli_chr04	46737747	CC	TT	1946835238
SNP_P4_65650_46737765	NC_021163.1	Ca_kabuli_chr04	46737765	GG	AA	1946835240
SNP_P4_65651_46737805	NC_021163.1	Ca_kabuli_chr04	46737805	AA	GG	1946835242
SNP_P4_65652_46737892	NC_021163.1	Ca_kabuli_chr04	46737892	TT	AA	1946835244
SNP_P4_65653_46737947	NC_021163.1	Ca_kabuli_chr04	46737947	CC	TT	1946835246
SNP_P4_65654_46737949	NC_021163.1	Ca_kabuli_chr04	46737949	GG	AA	1946835249
SNP_P4_65655_46738196	NC_021163.1	Ca_kabuli_chr04	46738196	AA	GG	1946835251
SNP_P4_65656_46738276	NC_021163.1	Ca_kabuli_chr04	46738276	TT	CC	1946835253
SNP_P4_65657_46738400	NC_021163.1	Ca_kabuli_chr04	46738400	TT	CC	1946835255
SNP_P4_65659_46738800	NC_021163.1	Ca_kabuli_chr04	46738800	AA	TT	1946835257
SNP_P4_65660_46739039	NC_021163.1	Ca_kabuli_chr04	46739039	TT	AA	1946835259
SNP_P4_65661_46741333	NC_021163.1	Ca_kabuli_chr04	46741333	TT	AA	1946835261

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_65663_46742183	NC_021163.1	Ca_kabuli_chr04	46742183	GG	AA	1946835265
SNP_P4_65664_46744337	NC_021163.1	Ca_kabuli_chr04	46744337	TT	CC	1946835267
SNP_P4_65665_46744364	NC_021163.1	Ca_kabuli_chr04	46744364	TT	CC	1946835269
SNP_P4_65669_46748650	NC_021163.1	Ca_kabuli_chr04	46748650	GG	AA	1946835271
SNP_P4_65670_46748719	NC_021163.1	Ca_kabuli_chr04	46748719	CC	GG	1946835273
SNP_P4_65671_46748862	NC_021163.1	Ca_kabuli_chr04	46748862	AA	GG	1946835275
SNP_P4_65672_46749002	NC_021163.1	Ca_kabuli_chr04	46749002	CC	GG	1946835277
SNP_P4_65673_46749016	NC_021163.1	Ca_kabuli_chr04	46749016	CC	TT	1946835279
SNP_P4_65674_46749827	NC_021163.1	Ca_kabuli_chr04	46749827	TT	AA	1946835282
SNP_P4_65675_46749836	NC_021163.1	Ca_kabuli_chr04	46749836	CC	TT	1946835284
SNP_P4_65676_46753030	NC_021163.1	Ca_kabuli_chr04	46753030	GG	AA	1946835286
SNP_P4_65677_46753074	NC_021163.1	Ca_kabuli_chr04	46753074	CC	TT	1946835288
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SNP_P4_65680_46753162	NC_021163.1	Ca_kabuli_chr04	46753162	TT	CC	1946835292
SNP_P4_65681_46753172	NC_021163.1	Ca_kabuli_chr04	46753172	TT	CC	1946835294
SNP_P4_65682_46753203	NC_021163.1	Ca_kabuli_chr04	46753203	TT	CC	1946835296
SNP_P4_65683_46753220	NC_021163.1	Ca_kabuli_chr04	46753220	AA	TT	1946835298
SNP_P4_65684_46753267	NC_021163.1	Ca_kabuli_chr04	46753267	AA	CC	1946835300
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SNP_P4_65694_46754806	NC_021163.1	Ca_kabuli_chr04	46754806	TT	GG	1946835320
SNP_P4_65695_46754885	NC_021163.1	Ca_kabuli_chr04	46754885	GG	TT	1946835322
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SNP_P4_65697_46755747	NC_021163.1	Ca_kabuli_chr04	46755747	CC	TT	1946835326
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SNP_P4_65699_46756067	NC_021163.1	Ca_kabuli_chr04	46756067	AA	GG	1946835330
SNP_P4_65700_46756165	NC_021163.1	Ca_kabuli_chr04	46756165	TT	CC	1946835332
SNP_P4_65701_46756168	NC_021163.1	Ca_kabuli_chr04	46756168	AA	GG	1946835334
SNP_P4_65703_46757859	NC_021163.1	Ca_kabuli_chr04	46757859	TT	GG	1946835336
SNP_P4_65704_46757954	NC_021163.1	Ca_kabuli_chr04	46757954	TT	AA	1946835338
SNP_P4_65705_46757969	NC_021163.1	Ca_kabuli_chr04	46757969	CC	TT	1946835339
SNP_P4_65706_46758173	NC_021163.1	Ca_kabuli_chr04	46758173	TT	AA	1946835341
SNP_P4_65707_46758257	NC_021163.1	Ca_kabuli_chr04	46758257	GG	AA	1946835343
SNP_P4_65708_46759449	NC_021163.1	Ca_kabuli_chr04	46759449	CC	TT	1946835345

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_65711_46760077	NC_021163.1	Ca_kabuli_chr04	46760077	TT	AA	1946835349
SNP_P4_65712_46760078	NC_021163.1	Ca_kabuli_chr04	46760078	TT	CC	1946835351
SNP_P4_65714_46760715	NC_021163.1	Ca_kabuli_chr04	46760715	AA	CC	1946835353
SNP_P4_65715_46760728	NC_021163.1	Ca_kabuli_chr04	46760728	TT	AA	1946835355
SNP_P4_65716_46760756	NC_021163.1	Ca_kabuli_chr04	46760756	CC	AA	1946835357
SNP_P4_65718_46761101	NC_021163.1	Ca_kabuli_chr04	46761101	AA	TT	1946835359
SNP_P4_65721_46762281	NC_021163.1	Ca_kabuli_chr04	46762281	GG	TT	1946835361
SNP_P4_65722_46762709	NC_021163.1	Ca_kabuli_chr04	46762709	TT	AA	1946835363
SNP_P4_65723_46764897	NC_021163.1	Ca_kabuli_chr04	46764897	CC	AA	1946835365
SNP_P4_65724_46764921	NC_021163.1	Ca_kabuli_chr04	46764921	AA	CC	1946835367
SNP_P4_65725_46764929	NC_021163.1	Ca_kabuli_chr04	46764929	CC	TT	1946835369
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SNP_P4_65736_46767127	NC_021163.1	Ca_kabuli_chr04	46767127	CC	AA	1946835391
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SNP_P4_65742_46769077	NC_021163.1	Ca_kabuli_chr04	46769077	CC	AA	1946835399
SNP_P4_65743_46769183	NC_021163.1	Ca_kabuli_chr04	46769183	AA	TT	1946835401
SNP_P4_65744_46769197	NC_021163.1	Ca_kabuli_chr04	46769197	AA	GG	1946835403
SNP_P4_65746_46769347	NC_021163.1	Ca_kabuli_chr04	46769347	TT	AA	1946835405
SNP_P4_65747_46769634	NC_021163.1	Ca_kabuli_chr04	46769634	CC	TT	1946835407
SNP_P4_65748_46769753	NC_021163.1	Ca_kabuli_chr04	46769753	GG	AA	1946835409
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SNP_P4_65750_46770009	NC_021163.1	Ca_kabuli_chr04	46770009	TT	CC	1946835413
SNP_P4_65751_46770364	NC_021163.1	Ca_kabuli_chr04	46770364	CC	TT	1946835415
SNP_P4_65752_46770367	NC_021163.1	Ca_kabuli_chr04	46770367	GG	AA	1946835417
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SNP_P4_65754_46770376	NC_021163.1	Ca_kabuli_chr04	46770376	GG	AA	1946835421
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SNP_P4_65756_46770406	NC_021163.1	Ca_kabuli_chr04	46770406	GG	TT	1946835425
SNP_P4_65757_46770509	NC_021163.1	Ca_kabuli_chr04	46770509	TT	AA	1946835427
SNP_P4_65758_47183182	NC_021163.1	Ca_kabuli_chr04	47183182	TT	AA	1946835429

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_65759_47185064	NC_021163.1	Ca_kabuli_chr04	47185064	TT	GG	1946835431
SNP_P4_65760_47185775	NC_021163.1	Ca_kabuli_chr04	47185775	AA	GG	1946835433
SNP_P4_65762_47186181	NC_021163.1	Ca_kabuli_chr04	47186181	CC	TT	1946835435
SNP_P4_65763_47187215	NC_021163.1	Ca_kabuli_chr04	47187215	AA	GG	1946835436
SNP_P4_65764_47189415	NC_021163.1	Ca_kabuli_chr04	47189415	CC	TT	1946835438
SNP_P4_65765_47189855	NC_021163.1	Ca_kabuli_chr04	47189855	CC	TT	1946835440
SNP_P4_65766_47189880	NC_021163.1	Ca_kabuli_chr04	47189880	AA	GG	1946835442
SNP_P4_65767_47189886	NC_021163.1	Ca_kabuli_chr04	47189886	AA	GG	1946835444
SNP_P4_65768_47189892	NC_021163.1	Ca_kabuli_chr04	47189892	GG	AA	1946835446
SNP_P4_65769_47190428	NC_021163.1	Ca_kabuli_chr04	47190428	GG	TT	1946835448
SNP_P4_65771_47193179	NC_021163.1	Ca_kabuli_chr04	47193179	AA	GG	1946835450
SNP_P4_65772_47194407	NC_021163.1	Ca_kabuli_chr04	47194407	AA	GG	1946835452
SNP_P4_65773_47195659	NC_021163.1	Ca_kabuli_chr04	47195659	AA	GG	1946835454
SNP_P4_65775_47196023	NC_021163.1	Ca_kabuli_chr04	47196023	CC	TT	1946835456
SNP_P4_65776_47196051	NC_021163.1	Ca_kabuli_chr04	47196051	GG	TT	1946835458
SNP_P4_65777_47196297	NC_021163.1	Ca_kabuli_chr04	47196297	CC	AA	1946835460
SNP_P4_65778_47198243	NC_021163.1	Ca_kabuli_chr04	47198243	AA	TT	1946835462
SNP_P4_65779_47199025	NC_021163.1	Ca_kabuli_chr04	47199025	CC	TT	1946835463
SNP_P4_65780_47199026	NC_021163.1	Ca_kabuli_chr04	47199026	AA	CC	1946835465
SNP_P4_65781_47199028	NC_021163.1	Ca_kabuli_chr04	47199028	TT	AA	1946835467
SNP_P4_65782_47204773	NC_021163.1	Ca_kabuli_chr04	47204773	AA	GG	1946835469
SNP_P4_65783_47205706	NC_021163.1	Ca_kabuli_chr04	47205706	CC	AA	1946835471
SNP_P4_65785_47206112	NC_021163.1	Ca_kabuli_chr04	47206112	GG	AA	1946835473
SNP_P4_65787_47206313	NC_021163.1	Ca_kabuli_chr04	47206313	GG	AA	1946835475
SNP_P4_65788_47206688	NC_021163.1	Ca_kabuli_chr04	47206688	TT	AA	1946835476
SNP_P4_65789_47206730	NC_021163.1	Ca_kabuli_chr04	47206730	TT	CC	1946835477
SNP_P4_65791_47207169	NC_021163.1	Ca_kabuli_chr04	47207169	AA	CC	1946835478
SNP_P4_65792_47207879	NC_021163.1	Ca_kabuli_chr04	47207879	TT	CC	1946835479
SNP_P4_65793_47207951	NC_021163.1	Ca_kabuli_chr04	47207951	GG	AA	1946835480
SNP_P4_65794_47208252	NC_021163.1	Ca_kabuli_chr04	47208252	CC	TT	1946835481
SNP_P4_65795_47208262	NC_021163.1	Ca_kabuli_chr04	47208262	TT	CC	1946835482
SNP_P4_65796_47209154	NC_021163.1	Ca_kabuli_chr04	47209154	GG	AA	1946835483
SNP_P4_65797_47210009	NC_021163.1	Ca_kabuli_chr04	47210009	CC	TT	1946835484
SNP_P4_65798_47210114	NC_021163.1	Ca_kabuli_chr04	47210114	GG	AA	1946835485
SNP_P4_65799_47211088	NC_021163.1	Ca_kabuli_chr04	47211088	GG	TT	1946835486
SNP_P4_65800_47211119	NC_021163.1	Ca_kabuli_chr04	47211119	AA	GG	1946835487
SNP_P4_65801_47211413	NC_021163.1	Ca_kabuli_chr04	47211413	GG	CC	1946835488
SNP_P4_65803_47212281	NC_021163.1	Ca_kabuli_chr04	47212281	GG	AA	1946835489
SNP_P4_65804_47214247	NC_021163.1	Ca_kabuli_chr04	47214247	GG	AA	1946835490
SNP_P4_65805_47215300	NC_021163.1	Ca_kabuli_chr04	47215300	AA	GG	1946835491
SNP_P4_65806_47215305	NC_021163.1	Ca_kabuli_chr04	47215305	TT	GG	1946835492
SNP_P4_65807_47215340	NC_021163.1	Ca_kabuli_chr04	47215340	AA	TT	1946835493

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_65809_47215867	NC_021163.1	Ca_kabuli_chr04	47215867	CC	TT	1946835495
SNP_P4_65810_47216149	NC_021163.1	Ca_kabuli_chr04	47216149	GG	AA	1946835496
SNP_P4_65811_47216384	NC_021163.1	Ca_kabuli_chr04	47216384	TT	CC	1946835497
SNP_P4_65812_47216475	NC_021163.1	Ca_kabuli_chr04	47216475	AA	TT	1946835498
SNP_P4_65813_47216497	NC_021163.1	Ca_kabuli_chr04	47216497	TT	GG	1946835499
SNP_P4_65814_47218047	NC_021163.1	Ca_kabuli_chr04	47218047	TT	GG	1946835500
SNP_P4_65815_47218609	NC_021163.1	Ca_kabuli_chr04	47218609	AA	TT	1946835501
SNP_P4_65816_47218908	NC_021163.1	Ca_kabuli_chr04	47218908	AA	GG	1946835502
SNP_P4_65817_47219169	NC_021163.1	Ca_kabuli_chr04	47219169	TT	CC	1946835503
SNP_P4_65818_47219561	NC_021163.1	Ca_kabuli_chr04	47219561	GG	AA	1946835504
SNP_P4_65820_47220222	NC_021163.1	Ca_kabuli_chr04	47220222	CC	TT	1946835505
SNP_P4_65821_47220308	NC_021163.1	Ca_kabuli_chr04	47220308	AA	GG	1946835506
SNP_P4_65822_47220670	NC_021163.1	Ca_kabuli_chr04	47220670	CC	TT	1946835507
SNP_P4_65823_47220672	NC_021163.1	Ca_kabuli_chr04	47220672	CC	TT	1946835508
SNP_P4_65824_47220789	NC_021163.1	Ca_kabuli_chr04	47220789	TT	CC	1946835509
SNP_P4_65825_47220795	NC_021163.1	Ca_kabuli_chr04	47220795	GG	AA	1946835510
SNP_P4_65826_47220796	NC_021163.1	Ca_kabuli_chr04	47220796	TT	AA	1946835511
SNP_P4_65827_47220801	NC_021163.1	Ca_kabuli_chr04	47220801	CC	TT	1946835512
SNP_P4_65828_47220819	NC_021163.1	Ca_kabuli_chr04	47220819	TT	CC	1946835513
SNP_P4_65829_47220822	NC_021163.1	Ca_kabuli_chr04	47220822	AA	TT	1946835514
SNP_P4_65830_47221098	NC_021163.1	Ca_kabuli_chr04	47221098	TT	GG	1946835515
SNP_P4_65831_47221209	NC_021163.1	Ca_kabuli_chr04	47221209	AA	TT	1946835516
SNP_P4_65832_47221211	NC_021163.1	Ca_kabuli_chr04	47221211	AA	GG	1946835517
SNP_P4_65833_47221809	NC_021163.1	Ca_kabuli_chr04	47221809	AA	CC	1946835518
SNP_P4_65834_47221965	NC_021163.1	Ca_kabuli_chr04	47221965	GG	AA	1946835519
SNP_P4_65835_47222693	NC_021163.1	Ca_kabuli_chr04	47222693	TT	CC	1946835520
SNP_P4_65836_47222694	NC_021163.1	Ca_kabuli_chr04	47222694	GG	AA	1946835521
SNP_P4_65837_47222701	NC_021163.1	Ca_kabuli_chr04	47222701	GG	CC	1946835523
SNP_P4_65838_47223047	NC_021163.1	Ca_kabuli_chr04	47223047	AA	GG	1946835525
SNP_P4_65839_47224713	NC_021163.1	Ca_kabuli_chr04	47224713	CC	TT	1946835527
SNP_P4_65840_47224754	NC_021163.1	Ca_kabuli_chr04	47224754	CC	TT	1946835530
SNP_P4_65841_47224784	NC_021163.1	Ca_kabuli_chr04	47224784	AA	GG	1946835532
SNP_P4_65842_47229001	NC_021163.1	Ca_kabuli_chr04	47229001	GG	AA	1946835534
SNP_P4_65843_47229006	NC_021163.1	Ca_kabuli_chr04	47229006	GG	AA	1946835536
SNP_P4_65844_47230063	NC_021163.1	Ca_kabuli_chr04	47230063	AA	TT	1946835538
SNP_P4_65845_47230081	NC_021163.1	Ca_kabuli_chr04	47230081	GG	AA	1946835539
SNP_P4_65846_47230123	NC_021163.1	Ca_kabuli_chr04	47230123	AA	TT	1946835541
SNP_P4_65848_47230338	NC_021163.1	Ca_kabuli_chr04	47230338	GG	AA	1946835543
SNP_P4_65849_47230502	NC_021163.1	Ca_kabuli_chr04	47230502	TT	GG	1946835545
SNP_P4_65850_47230534	NC_021163.1	Ca_kabuli_chr04	47230534	GG	AA	1946835547
SNP_P4_65851_47230549	NC_021163.1	Ca_kabuli_chr04	47230549	GG	AA	1946835549

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_65853_47230823	NC_021163.1	Ca_kabuli_chr04	47230823	GG	AA	1946835553
SNP_P4_65854_47231611	NC_021163.1	Ca_kabuli_chr04	47231611	AA	GG	1946835555
SNP_P4_65855_47231696	NC_021163.1	Ca_kabuli_chr04	47231696	GG	CC	1946835557
SNP_P4_65856_47232602	NC_021163.1	Ca_kabuli_chr04	47232602	CC	TT	1946835559
SNP_P4_65857_47232613	NC_021163.1	Ca_kabuli_chr04	47232613	CC	AA	1946835561
SNP_P4_65858_47232927	NC_021163.1	Ca_kabuli_chr04	47232927	TT	CC	1946835563
SNP_P4_65860_47233546	NC_021163.1	Ca_kabuli_chr04	47233546	CC	TT	1946835565
SNP_P4_65861_47233561	NC_021163.1	Ca_kabuli_chr04	47233561	GG	AA	1946835567
SNP_P4_65863_47234671	NC_021163.1	Ca_kabuli_chr04	47234671	CC	TT	1946835569
SNP_P4_65864_47234977	NC_021163.1	Ca_kabuli_chr04	47234977	CC	TT	1946835571
SNP_P4_65865_47235007	NC_021163.1	Ca_kabuli_chr04	47235007	TT	CC	1946835573
SNP_P4_65866_47238655	NC_021163.1	Ca_kabuli_chr04	47238655	GG	TT	1946835575
SNP_P4_65869_47238945	NC_021163.1	Ca_kabuli_chr04	47238945	GG	AA	1946835577
SNP_P4_65870_47239067	NC_021163.1	Ca_kabuli_chr04	47239067	CC	TT	1946835579
SNP_P4_65871_47239068	NC_021163.1	Ca_kabuli_chr04	47239068	CC	TT	1946835581
SNP_P4_65872_47240043	NC_021163.1	Ca_kabuli_chr04	47240043	AA	GG	1946835583
SNP_P4_65873_47240106	NC_021163.1	Ca_kabuli_chr04	47240106	AA	GG	1946835585
SNP_P4_65875_47241329	NC_021163.1	Ca_kabuli_chr04	47241329	TT	CC	1946835587
SNP_P4_65876_47241330	NC_021163.1	Ca_kabuli_chr04	47241330	GG	AA	1946835589
SNP_P4_65877_47241896	NC_021163.1	Ca_kabuli_chr04	47241896	CC	TT	1946835591
SNP_P4_65878_47241914	NC_021163.1	Ca_kabuli_chr04	47241914	TT	GG	1946835593
SNP_P4_65880_47242309	NC_021163.1	Ca_kabuli_chr04	47242309	CC	TT	1946835595
SNP_P4_65881_47246683	NC_021163.1	Ca_kabuli_chr04	47246683	CC	TT	1946835597
SNP_P4_65883_47247408	NC_021163.1	Ca_kabuli_chr04	47247408	TT	GG	1946835599
SNP_P4_65884_47247638	NC_021163.1	Ca_kabuli_chr04	47247638	GG	AA	1946835601
SNP_P4_65885_47249943	NC_021163.1	Ca_kabuli_chr04	47249943	CC	TT	1946835603
SNP_P4_65886_47249952	NC_021163.1	Ca_kabuli_chr04	47249952	TT	CC	1946835605
SNP_P4_65887_47249987	NC_021163.1	Ca_kabuli_chr04	47249987	CC	TT	1946835607
SNP_P4_65888_47254507	NC_021163.1	Ca_kabuli_chr04	47254507	TT	AA	1946835609
SNP_P4_65889_47254943	NC_021163.1	Ca_kabuli_chr04	47254943	TT	CC	1946835611
SNP_P4_65890_47255710	NC_021163.1	Ca_kabuli_chr04	47255710	AA	GG	1946835613
SNP_P4_65891_47255720	NC_021163.1	Ca_kabuli_chr04	47255720	TT	CC	1946835615
SNP_P4_65892_47256399	NC_021163.1	Ca_kabuli_chr04	47256399	GG	AA	1946835617
SNP_P4_65893_47256588	NC_021163.1	Ca_kabuli_chr04	47256588	AA	GG	1946835619
SNP_P4_65894_47257014	NC_021163.1	Ca_kabuli_chr04	47257014	TT	GG	1946835621
SNP_P4_65895_47257039	NC_021163.1	Ca_kabuli_chr04	47257039	TT	CC	1946835623
SNP_P4_65896_47257048	NC_021163.1	Ca_kabuli_chr04	47257048	GG	AA	1946835625
SNP_P4_65898_47257205	NC_021163.1	Ca_kabuli_chr04	47257205	AA	TT	1946835627
SNP_P4_65899_47262892	NC_021163.1	Ca_kabuli_chr04	47262892	AA	CC	1946835629
SNP_P4_65900_47264158	NC_021163.1	Ca_kabuli_chr04	47264158	TT	CC	1946835631
SNP_P4_65903_47305460	NC_021163.1	Ca_kabuli_chr04	47305460	AA	GG	1946835633

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_65904_47305468	NC_021163.1	Ca_kabuli_chr04	47305468	AA	GG	1946835635
SNP_P4_65905_47315974	NC_021163.1	Ca_kabuli_chr04	47315974	GG	AA	1946835637
SNP_P4_65906_47316398	NC_021163.1	Ca_kabuli_chr04	47316398	CC	AA	1946835639
SNP_P4_65907_47332462	NC_021163.1	Ca_kabuli_chr04	47332462	AA	GG	1946835641
SNP_P4_65908_47333767	NC_021163.1	Ca_kabuli_chr04	47333767	AA	GG	1946835643
SNP_P4_65910_47363089	NC_021163.1	Ca_kabuli_chr04	47363089	AA	GG	1946835645
SNP_P4_65911_47372944	NC_021163.1	Ca_kabuli_chr04	47372944	TT	CC	1946835647
SNP_P4_65912_47376492	NC_021163.1	Ca_kabuli_chr04	47376492	GG	AA	1946835649
SNP_P4_65913_47377931	NC_021163.1	Ca_kabuli_chr04	47377931	AA	GG	1946835651
SNP_P4_65914_47398069	NC_021163.1	Ca_kabuli_chr04	47398069	TT	CC	1946835652
SNP_P4_65916_47404992	NC_021163.1	Ca_kabuli_chr04	47404992	TT	CC	1946835654
SNP_P4_65917_47405000	NC_021163.1	Ca_kabuli_chr04	47405000	TT	CC	1946835656
SNP_P4_65918_47420422	NC_021163.1	Ca_kabuli_chr04	47420422	AA	CC	1946835658
SNP_P4_65919_47420426	NC_021163.1	Ca_kabuli_chr04	47420426	TT	GG	1946835660
SNP_P4_65920_47420810	NC_021163.1	Ca_kabuli_chr04	47420810	TT	CC	1946835662
SNP_P4_65921_47423125	NC_021163.1	Ca_kabuli_chr04	47423125	AA	TT	1946835664
SNP_P4_65924_47437581	NC_021163.1	Ca_kabuli_chr04	47437581	GG	CC	1946835666
SNP_P4_65925_47453954	NC_021163.1	Ca_kabuli_chr04	47453954	AA	GG	1946835668
SNP_P4_65926_47454488	NC_021163.1	Ca_kabuli_chr04	47454488	CC	TT	1946835670
SNP_P4_65927_47456370	NC_021163.1	Ca_kabuli_chr04	47456370	GG	AA	1946835672
SNP_P4_65929_47485458	NC_021163.1	Ca_kabuli_chr04	47485458	GG	AA	1946835674
SNP_P4_65930_47522529	NC_021163.1	Ca_kabuli_chr04	47522529	TT	AA	1946835676
SNP_P4_65931_47547190	NC_021163.1	Ca_kabuli_chr04	47547190	GG	AA	1946835678
SNP_P4_65932_47552320	NC_021163.1	Ca_kabuli_chr04	47552320	TT	CC	1946835680
SNP_P4_65933_47552332	NC_021163.1	Ca_kabuli_chr04	47552332	GG	TT	1946835682
SNP_P4_65935_47573766	NC_021163.1	Ca_kabuli_chr04	47573766	AA	TT	1946835684
SNP_P4_65936_47586883	NC_021163.1	Ca_kabuli_chr04	47586883	CC	TT	1946835686
SNP_P4_65938_47604531	NC_021163.1	Ca_kabuli_chr04	47604531	AA	GG	1946835688
SNP_P4_65939_47604533	NC_021163.1	Ca_kabuli_chr04	47604533	TT	CC	1946835690
SNP_P4_65940_47625138	NC_021163.1	Ca_kabuli_chr04	47625138	TT	AA	1946835692
SNP_P4_65941_47633373	NC_021163.1	Ca_kabuli_chr04	47633373	TT	CC	1946835695
SNP_P4_65942_47664104	NC_021163.1	Ca_kabuli_chr04	47664104	TT	CC	1946835697
SNP_P4_65943_47669489	NC_021163.1	Ca_kabuli_chr04	47669489	CC	TT	1946835699
SNP_P4_65944_47674057	NC_021163.1	Ca_kabuli_chr04	47674057	TT	CC	1946835701
SNP_P4_65945_47674400	NC_021163.1	Ca_kabuli_chr04	47674400	CC	TT	1946835703
SNP_P4_65946_47674690	NC_021163.1	Ca_kabuli_chr04	47674690	TT	CC	1946835705
SNP_P4_65948_47685837	NC_021163.1	Ca_kabuli_chr04	47685837	GG	TT	1946835707
SNP_P4_65950_47685967	NC_021163.1	Ca_kabuli_chr04	47685967	TT	AA	1946835710
SNP_P4_65951_47685968	NC_021163.1	Ca_kabuli_chr04	47685968	GG	TT	1946835712
SNP_P4_65952_47686118	NC_021163.1	Ca_kabuli_chr04	47686118	AA	GG	1946835714
SNP_P4_65953_47686129	NC_021163.1	Ca_kabuli_chr04	47686129	CC	TT	1946835716
SNP_P4_65954_47686187	NC_021163.1	Ca_kabuli_chr04	47686187	AA	CC	1946835718

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_65956_47702115	NC_021163.1	Ca_kabuli_chr04	47702115	AA	GG	1946835722
SNP_P4_65957_47732651	NC_021163.1	Ca_kabuli_chr04	47732651	CC	GG	1946835724
SNP_P4_65958_47743970	NC_021163.1	Ca_kabuli_chr04	47743970	TT	CC	1946835726
SNP_P4_65960_47744356	NC_021163.1	Ca_kabuli_chr04	47744356	TT	CC	1946835728
SNP_P4_65961_47756775	NC_021163.1	Ca_kabuli_chr04	47756775	CC	AA	1946835730
SNP_P4_65962_47757559	NC_021163.1	Ca_kabuli_chr04	47757559	CC	TT	1946835732
SNP_P4_65963_47770014	NC_021163.1	Ca_kabuli_chr04	47770014	CC	AA	1946835734
SNP_P4_65964_47782034	NC_021163.1	Ca_kabuli_chr04	47782034	GG	AA	1946835736
SNP_P4_65965_47782297	NC_021163.1	Ca_kabuli_chr04	47782297	AA	GG	1946835738
SNP_P4_65966_47803581	NC_021163.1	Ca_kabuli_chr04	47803581	AA	GG	1946835740
SNP_P4_65967_47838699	NC_021163.1	Ca_kabuli_chr04	47838699	AA	GG	1946835742
SNP_P4_65969_47851126	NC_021163.1	Ca_kabuli_chr04	47851126	TT	CC	1946835744
SNP_P4_65971_47875036	NC_021163.1	Ca_kabuli_chr04	47875036	AA	CC	1946835746
SNP_P4_65972_47875038	NC_021163.1	Ca_kabuli_chr04	47875038	GG	AA	1946835748
SNP_P4_65973_47893748	NC_021163.1	Ca_kabuli_chr04	47893748	CC	TT	1946835750
SNP_P4_65974_47909452	NC_021163.1	Ca_kabuli_chr04	47909452	GG	AA	1946835752
SNP_P4_65975_47916217	NC_021163.1	Ca_kabuli_chr04	47916217	GG	AA	1946835754
SNP_P4_65976_47916249	NC_021163.1	Ca_kabuli_chr04	47916249	AA	CC	1946835756
SNP_P4_65977_47916419	NC_021163.1	Ca_kabuli_chr04	47916419	GG	AA	1946835758
SNP_P4_65978_47935139	NC_021163.1	Ca_kabuli_chr04	47935139	AA	GG	1946835760
SNP_P4_65979_47939870	NC_021163.1	Ca_kabuli_chr04	47939870	TT	CC	1946835762
SNP_P4_65980_47939930	NC_021163.1	Ca_kabuli_chr04	47939930	AA	GG	1946835764
SNP_P4_65981_47955266	NC_021163.1	Ca_kabuli_chr04	47955266	AA	GG	1946835766
SNP_P4_65982_47955433	NC_021163.1	Ca_kabuli_chr04	47955433	TT	CC	1946835768
SNP_P4_65983_47955884	NC_021163.1	Ca_kabuli_chr04	47955884	CC	GG	1946835770
SNP_P4_65984_47955965	NC_021163.1	Ca_kabuli_chr04	47955965	GG	AA	1946835772
SNP_P4_65985_47956147	NC_021163.1	Ca_kabuli_chr04	47956147	GG	TT	1946835774
SNP_P4_65986_47958880	NC_021163.1	Ca_kabuli_chr04	47958880	TT	GG	1946835776
SNP_P4_65987_47959113	NC_021163.1	Ca_kabuli_chr04	47959113	TT	CC	1946835778
SNP_P4_65988_47959199	NC_021163.1	Ca_kabuli_chr04	47959199	GG	TT	1946835780
SNP_P4_65989_47960972	NC_021163.1	Ca_kabuli_chr04	47960972	TT	CC	1946835782
SNP_P4_65990_47960991	NC_021163.1	Ca_kabuli_chr04	47960991	CC	TT	1946835784
SNP_P4_65991_47961159	NC_021163.1	Ca_kabuli_chr04	47961159	CC	TT	1946835786
SNP_P4_65992_47961212	NC_021163.1	Ca_kabuli_chr04	47961212	AA	TT	1946835788
SNP_P4_65993_47961358	NC_021163.1	Ca_kabuli_chr04	47961358	GG	TT	1946835790
SNP_P4_65994_47961640	NC_021163.1	Ca_kabuli_chr04	47961640	GG	AA	1946835792
SNP_P4_65995_47961647	NC_021163.1	Ca_kabuli_chr04	47961647	AA	TT	1946835794
SNP_P4_65996_47961649	NC_021163.1	Ca_kabuli_chr04	47961649	CC	TT	1946835796
SNP_P4_65997_47961664	NC_021163.1	Ca_kabuli_chr04	47961664	CC	TT	1946835798
SNP_P4_65998_47961758	NC_021163.1	Ca_kabuli_chr04	47961758	CC	AA	1946835800
SNP_P4_65999_47962076	NC_021163.1	Ca_kabuli_chr04	47962076	TT	CC	1946835802

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_66001_47962800	NC_021163.1	Ca_kabuli_chr04	47962800	GG	AA	1946835806
SNP_P4_66002_47962816	NC_021163.1	Ca_kabuli_chr04	47962816	GG	AA	1946835808
SNP_P4_66003_47962978	NC_021163.1	Ca_kabuli_chr04	47962978	CC	GG	1946835810
SNP_P4_66004_47962981	NC_021163.1	Ca_kabuli_chr04	47962981	CC	TT	1946835812
SNP_P4_66005_47963095	NC_021163.1	Ca_kabuli_chr04	47963095	GG	TT	1946835814
SNP_P4_66006_47966308	NC_021163.1	Ca_kabuli_chr04	47966308	TT	AA	1946835816
SNP_P4_66007_47966373	NC_021163.1	Ca_kabuli_chr04	47966373	CC	TT	1946835818
SNP_P4_66009_47966476	NC_021163.1	Ca_kabuli_chr04	47966476	AA	GG	1946835821
SNP_P4_66010_47966500	NC_021163.1	Ca_kabuli_chr04	47966500	GG	AA	1946835823
SNP_P4_66011_47966508	NC_021163.1	Ca_kabuli_chr04	47966508	CC	GG	1946835825
SNP_P4_66012_47967931	NC_021163.1	Ca_kabuli_chr04	47967931	TT	AA	1946835827
SNP_P4_66013_47981465	NC_021163.1	Ca_kabuli_chr04	47981465	CC	TT	1946835829
SNP_P4_66014_47982180	NC_021163.1	Ca_kabuli_chr04	47982180	CC	GG	1946835831
SNP_P4_66015_47982273	NC_021163.1	Ca_kabuli_chr04	47982273	CC	TT	1946835833
SNP_P4_66016_47982342	NC_021163.1	Ca_kabuli_chr04	47982342	TT	GG	1946835835
SNP_P4_66017_47982400	NC_021163.1	Ca_kabuli_chr04	47982400	CC	AA	1946835837
SNP_P4_66018_47982429	NC_021163.1	Ca_kabuli_chr04	47982429	TT	AA	1946835839
SNP_P4_66019_47982458	NC_021163.1	Ca_kabuli_chr04	47982458	CC	TT	1946835841
SNP_P4_66020_47982487	NC_021163.1	Ca_kabuli_chr04	47982487	GG	TT	1946835843
SNP_P4_66021_47982567	NC_021163.1	Ca_kabuli_chr04	47982567	AA	GG	1946835845
SNP_P4_66022_47982587	NC_021163.1	Ca_kabuli_chr04	47982587	TT	AA	1946835847
SNP_P4_66025_47982687	NC_021163.1	Ca_kabuli_chr04	47982687	AA	GG	1946835849
SNP_P4_66026_47982839	NC_021163.1	Ca_kabuli_chr04	47982839	CC	TT	1946835851
SNP_P4_66027_47990957	NC_021163.1	Ca_kabuli_chr04	47990957	AA	CC	1946835853
SNP_P4_66028_47990971	NC_021163.1	Ca_kabuli_chr04	47990971	TT	CC	1946835855
SNP_P4_66029_47990981	NC_021163.1	Ca_kabuli_chr04	47990981	AA	GG	1946835857
SNP_P4_66030_47991035	NC_021163.1	Ca_kabuli_chr04	47991035	GG	CC	1946835859
SNP_P4_66033_47991321	NC_021163.1	Ca_kabuli_chr04	47991321	CC	TT	1946835861
SNP_P4_66034_47991348	NC_021163.1	Ca_kabuli_chr04	47991348	AA	GG	1946835863
SNP_P4_66035_47991452	NC_021163.1	Ca_kabuli_chr04	47991452	AA	GG	1946835865
SNP_P4_66036_47997241	NC_021163.1	Ca_kabuli_chr04	47997241	CC	AA	1946835867
SNP_P4_66037_47997500	NC_021163.1	Ca_kabuli_chr04	47997500	TT	CC	1946835869
SNP_P4_66038_47999511	NC_021163.1	Ca_kabuli_chr04	47999511	CC	TT	1946835871
SNP_P4_66039_48005621	NC_021163.1	Ca_kabuli_chr04	48005621	AA	GG	1946835873
SNP_P4_66040_48027876	NC_021163.1	Ca_kabuli_chr04	48027876	AA	GG	1946835875
SNP_P4_66041_48037366	NC_021163.1	Ca_kabuli_chr04	48037366	GG	AA	1946835877
SNP_P4_66043_48047640	NC_021163.1	Ca_kabuli_chr04	48047640	AA	GG	1946835879
SNP_P4_66045_48052503	NC_021163.1	Ca_kabuli_chr04	48052503	AA	CC	1946835881
SNP_P4_66047_48066874	NC_021163.1	Ca_kabuli_chr04	48066874	TT	GG	1946835883
SNP_P4_66048_48067818	NC_021163.1	Ca_kabuli_chr04	48067818	TT	AA	1946835885
SNP_P4_66050_48078472	NC_021163.1	Ca_kabuli_chr04	48078472	GG	CC	1946835887

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_66053_48089680	NC_021163.1	Ca_kabuli_chr04	48089680	AA	GG	1946835891
SNP_P4_66054_48104229	NC_021163.1	Ca_kabuli_chr04	48104229	AA	GG	1946835893
SNP_P4_66056_48161689	NC_021163.1	Ca_kabuli_chr04	48161689	AA	TT	1946835895
SNP_P4_66057_48161718	NC_021163.1	Ca_kabuli_chr04	48161718	AA	TT	1946835897
SNP_P4_66058_48182857	NC_021163.1	Ca_kabuli_chr04	48182857	AA	GG	1946835899
SNP_P4_66059_48189097	NC_021163.1	Ca_kabuli_chr04	48189097	CC	TT	1946835901
SNP_P4_66061_48202928	NC_021163.1	Ca_kabuli_chr04	48202928	GG	TT	1946835903
SNP_P4_66062_48203009	NC_021163.1	Ca_kabuli_chr04	48203009	GG	AA	1946835905
SNP_P4_66063_48203339	NC_021163.1	Ca_kabuli_chr04	48203339	CC	TT	1946835907
SNP_P4_66064_48203478	NC_021163.1	Ca_kabuli_chr04	48203478	AA	GG	1946835909
SNP_P4_66065_48203594	NC_021163.1	Ca_kabuli_chr04	48203594	GG	CC	1946835911
SNP_P4_66066_48203596	NC_021163.1	Ca_kabuli_chr04	48203596	TT	CC	1946835913
SNP_P4_66067_48203730	NC_021163.1	Ca_kabuli_chr04	48203730	TT	CC	1946835915
SNP_P4_66068_48203751	NC_021163.1	Ca_kabuli_chr04	48203751	TT	CC	1946835917
SNP_P4_66069_48203754	NC_021163.1	Ca_kabuli_chr04	48203754	CC	TT	1946835919
SNP_P4_66070_48203995	NC_021163.1	Ca_kabuli_chr04	48203995	GG	TT	1946835921
SNP_P4_66071_48204007	NC_021163.1	Ca_kabuli_chr04	48204007	CC	GG	1946835923
SNP_P4_66072_48204157	NC_021163.1	Ca_kabuli_chr04	48204157	TT	GG	1946835925
SNP_P4_66073_48204231	NC_021163.1	Ca_kabuli_chr04	48204231	TT	AA	1946835927
SNP_P4_66074_48204310	NC_021163.1	Ca_kabuli_chr04	48204310	AA	TT	1946835929
SNP_P4_66076_48204519	NC_021163.1	Ca_kabuli_chr04	48204519	TT	AA	1946835931
SNP_P4_66077_48204526	NC_021163.1	Ca_kabuli_chr04	48204526	AA	TT	1946835933
SNP_P4_66078_48204799	NC_021163.1	Ca_kabuli_chr04	48204799	CC	TT	1946835935
SNP_P4_66079_48205427	NC_021163.1	Ca_kabuli_chr04	48205427	TT	CC	1946835937
SNP_P4_66080_48205454	NC_021163.1	Ca_kabuli_chr04	48205454	TT	AA	1946835939
SNP_P4_66081_48205478	NC_021163.1	Ca_kabuli_chr04	48205478	CC	GG	1946835941
SNP_P4_66082_48205784	NC_021163.1	Ca_kabuli_chr04	48205784	GG	CC	1946835943
SNP_P4_66083_48205877	NC_021163.1	Ca_kabuli_chr04	48205877	TT	AA	1946835945
SNP_P4_66084_48205892	NC_021163.1	Ca_kabuli_chr04	48205892	GG	AA	1946835947
SNP_P4_66085_48205923	NC_021163.1	Ca_kabuli_chr04	48205923	CC	TT	1946835949
SNP_P4_66086_48205966	NC_021163.1	Ca_kabuli_chr04	48205966	TT	GG	1946835951
SNP_P4_66087_48205968	NC_021163.1	Ca_kabuli_chr04	48205968	AA	GG	1946835954
SNP_P4_66088_48206062	NC_021163.1	Ca_kabuli_chr04	48206062	CC	TT	1946835956
SNP_P4_66089_48206071	NC_021163.1	Ca_kabuli_chr04	48206071	GG	TT	1946835958
SNP_P4_66090_48206095	NC_021163.1	Ca_kabuli_chr04	48206095	GG	CC	1946835960
SNP_P4_66091_48206111	NC_021163.1	Ca_kabuli_chr04	48206111	GG	AA	1946835962
SNP_P4_66092_48206150	NC_021163.1	Ca_kabuli_chr04	48206150	CC	TT	1946835964
SNP_P4_66093_48206205	NC_021163.1	Ca_kabuli_chr04	48206205	CC	TT	1946835966
SNP_P4_66094_48206270	NC_021163.1	Ca_kabuli_chr04	48206270	GG	AA	1946835968
SNP_P4_66095_48206278	NC_021163.1	Ca_kabuli_chr04	48206278	AA	GG	1946835970
SNP_P4_66096_48206290	NC_021163.1	Ca_kabuli_chr04	48206290	CC	TT	1946835972

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_66098_48206376	NC_021163.1	Ca_kabuli_chr04	48206376	AA	CC	1946835976
SNP_P4_66099_48206379	NC_021163.1	Ca_kabuli_chr04	48206379	GG	AA	1946835978
SNP_P4_66100_48206556	NC_021163.1	Ca_kabuli_chr04	48206556	CC	GG	1946835980
SNP_P4_66101_48206565	NC_021163.1	Ca_kabuli_chr04	48206565	GG	CC	1946835982
SNP_P4_66102_48206618	NC_021163.1	Ca_kabuli_chr04	48206618	CC	AA	1946835984
SNP_P4_66103_48206722	NC_021163.1	Ca_kabuli_chr04	48206722	GG	AA	1946835986
SNP_P4_66104_48206746	NC_021163.1	Ca_kabuli_chr04	48206746	TT	CC	1946835988
SNP_P4_66106_48206808	NC_021163.1	Ca_kabuli_chr04	48206808	AA	GG	1946835990
SNP_P4_66108_48207413	NC_021163.1	Ca_kabuli_chr04	48207413	CC	TT	1946835992
SNP_P4_66109_48207547	NC_021163.1	Ca_kabuli_chr04	48207547	GG	CC	1946835994
SNP_P4_66110_48207597	NC_021163.1	Ca_kabuli_chr04	48207597	CC	TT	1946835996
SNP_P4_66111_48207955	NC_021163.1	Ca_kabuli_chr04	48207955	TT	CC	1946835998
SNP_P4_66112_48208611	NC_021163.1	Ca_kabuli_chr04	48208611	TT	CC	1946836000
SNP_P4_66114_48208626	NC_021163.1	Ca_kabuli_chr04	48208626	AA	GG	1946836002
SNP_P4_66116_48209869	NC_021163.1	Ca_kabuli_chr04	48209869	CC	GG	1946836004
SNP_P4_66117_48209883	NC_021163.1	Ca_kabuli_chr04	48209883	AA	GG	1946836006
SNP_P4_66118_48209891	NC_021163.1	Ca_kabuli_chr04	48209891	AA	GG	1946836008
SNP_P4_66120_48210113	NC_021163.1	Ca_kabuli_chr04	48210113	CC	TT	1946836010
SNP_P4_66121_48210127	NC_021163.1	Ca_kabuli_chr04	48210127	GG	TT	1946836012
SNP_P4_66123_48210323	NC_021163.1	Ca_kabuli_chr04	48210323	TT	CC	1946836014
SNP_P4_66124_48210334	NC_021163.1	Ca_kabuli_chr04	48210334	AA	GG	1946836016
SNP_P4_66125_48210340	NC_021163.1	Ca_kabuli_chr04	48210340	CC	TT	1946836018
SNP_P4_66126_48210405	NC_021163.1	Ca_kabuli_chr04	48210405	AA	GG	1946836020
SNP_P4_66128_48211961	NC_021163.1	Ca_kabuli_chr04	48211961	GG	AA	1946836022
SNP_P4_66130_48212310	NC_021163.1	Ca_kabuli_chr04	48212310	AA	GG	1946836024
SNP_P4_66131_48212622	NC_021163.1	Ca_kabuli_chr04	48212622	GG	TT	1946836026
SNP_P4_66132_48213957	NC_021163.1	Ca_kabuli_chr04	48213957	TT	AA	1946836028
SNP_P4_66133_48214200	NC_021163.1	Ca_kabuli_chr04	48214200	TT	CC	1946836030
SNP_P4_66134_48214219	NC_021163.1	Ca_kabuli_chr04	48214219	GG	AA	1946836032
SNP_P4_66135_48214256	NC_021163.1	Ca_kabuli_chr04	48214256	GG	TT	1946836035
SNP_P4_66136_48214618	NC_021163.1	Ca_kabuli_chr04	48214618	TT	CC	1946836037
SNP_P4_66137_48214646	NC_021163.1	Ca_kabuli_chr04	48214646	AA	GG	1946836039
SNP_P4_66138_48214666	NC_021163.1	Ca_kabuli_chr04	48214666	CC	TT	1946836041
SNP_P4_66140_48214709	NC_021163.1	Ca_kabuli_chr04	48214709	TT	CC	1946836043
SNP_P4_66141_48214750	NC_021163.1	Ca_kabuli_chr04	48214750	AA	TT	1946836045
SNP_P4_66142_48214761	NC_021163.1	Ca_kabuli_chr04	48214761	GG	AA	1946836047
SNP_P4_66143_48214778	NC_021163.1	Ca_kabuli_chr04	48214778	CC	AA	1946836049
SNP_P4_66144_48214935	NC_021163.1	Ca_kabuli_chr04	48214935	TT	CC	1946836051
SNP_P4_66146_48215270	NC_021163.1	Ca_kabuli_chr04	48215270	GG	AA	1946836053
SNP_P4_66147_48215522	NC_021163.1	Ca_kabuli_chr04	48215522	TT	CC	1946836056
SNP_P4_66148_48215547	NC_021163.1	Ca_kabuli_chr04	48215547	TT	AA	1946836058

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_66151_48216646	NC_021163.1	Ca_kabuli_chr04	48216646	AA	GG	1946836062
SNP_P4_66152_48216650	NC_021163.1	Ca_kabuli_chr04	48216650	AA	TT	1946836064
SNP_P4_66153_48217541	NC_021163.1	Ca_kabuli_chr04	48217541	CC	AA	1946836066
SNP_P4_66154_48217893	NC_021163.1	Ca_kabuli_chr04	48217893	AA	GG	1946836068
SNP_P4_66155_48217916	NC_021163.1	Ca_kabuli_chr04	48217916	GG	AA	1946836070
SNP_P4_66156_48217918	NC_021163.1	Ca_kabuli_chr04	48217918	TT	CC	1946836072
SNP_P4_66157_48217922	NC_021163.1	Ca_kabuli_chr04	48217922	CC	TT	1946836074
SNP_P4_66160_48218682	NC_021163.1	Ca_kabuli_chr04	48218682	CC	GG	1946836076
SNP_P4_66161_48218707	NC_021163.1	Ca_kabuli_chr04	48218707	AA	GG	1946836078
SNP_P4_66162_48218765	NC_021163.1	Ca_kabuli_chr04	48218765	CC	AA	1946836081
SNP_P4_66163_48218785	NC_021163.1	Ca_kabuli_chr04	48218785	AA	CC	1946836083
SNP_P4_66164_48218786	NC_021163.1	Ca_kabuli_chr04	48218786	TT	CC	1946836085
SNP_P4_66165_48223378	NC_021163.1	Ca_kabuli_chr04	48223378	CC	TT	1946836087
SNP_P4_66166_48223382	NC_021163.1	Ca_kabuli_chr04	48223382	GG	AA	1946836089
SNP_P4_66167_48223383	NC_021163.1	Ca_kabuli_chr04	48223383	GG	CC	1946836091
SNP_P4_66168_48223407	NC_021163.1	Ca_kabuli_chr04	48223407	GG	CC	1946836093
SNP_P4_66170_48224361	NC_021163.1	Ca_kabuli_chr04	48224361	TT	AA	1946836212
SNP_P4_66171_48225117	NC_021163.1	Ca_kabuli_chr04	48225117	GG	AA	1946836214
SNP_P4_66172_48226116	NC_021163.1	Ca_kabuli_chr04	48226116	GG	CC	1946836216
SNP_P4_66174_48226437	NC_021163.1	Ca_kabuli_chr04	48226437	CC	TT	1946836218
SNP_P4_66175_48226528	NC_021163.1	Ca_kabuli_chr04	48226528	TT	CC	1946836220
SNP_P4_66176_48228888	NC_021163.1	Ca_kabuli_chr04	48228888	AA	GG	1946836223
SNP_P4_66177_48229101	NC_021163.1	Ca_kabuli_chr04	48229101	CC	TT	1946836225
SNP_P4_66178_48229206	NC_021163.1	Ca_kabuli_chr04	48229206	AA	GG	1946836227
SNP_P4_66180_48231105	NC_021163.1	Ca_kabuli_chr04	48231105	CC	TT	1946836229
SNP_P4_66181_48231167	NC_021163.1	Ca_kabuli_chr04	48231167	TT	GG	1946836231
SNP_P4_66182_48232305	NC_021163.1	Ca_kabuli_chr04	48232305	TT	CC	1946836233
SNP_P4_66183_48232731	NC_021163.1	Ca_kabuli_chr04	48232731	GG	TT	1946836235
SNP_P4_66184_48234779	NC_021163.1	Ca_kabuli_chr04	48234779	GG	CC	1946836236
SNP_P4_66185_48235267	NC_021163.1	Ca_kabuli_chr04	48235267	TT	CC	1946836238
SNP_P4_66186_48237028	NC_021163.1	Ca_kabuli_chr04	48237028	AA	GG	1946836240
SNP_P4_66187_48239201	NC_021163.1	Ca_kabuli_chr04	48239201	AA	GG	1946836242
SNP_P4_66188_48240735	NC_021163.1	Ca_kabuli_chr04	48240735	AA	TT	1946836244
SNP_P4_66189_48240743	NC_021163.1	Ca_kabuli_chr04	48240743	TT	AA	1946836246
SNP_P4_66190_48241708	NC_021163.1	Ca_kabuli_chr04	48241708	CC	TT	1946836248
SNP_P4_66191_48241716	NC_021163.1	Ca_kabuli_chr04	48241716	TT	CC	1946836250
SNP_P4_66192_48243658	NC_021163.1	Ca_kabuli_chr04	48243658	GG	AA	1946836252
SNP_P4_66193_48243988	NC_021163.1	Ca_kabuli_chr04	48243988	GG	AA	1946836254
SNP_P4_66194_48244068	NC_021163.1	Ca_kabuli_chr04	48244068	CC	TT	1946836256
SNP_P4_66195_48244091	NC_021163.1	Ca_kabuli_chr04	48244091	CC	TT	1946836258
SNP_P4_66196_48244186	NC_021163.1	Ca_kabuli_chr04	48244186	TT	CC	1946836260

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_66198_48244213	NC_021163.1	Ca_kabuli_chr04	48244213	TT	CC	1946836264
SNP_P4_66199_48244234	NC_021163.1	Ca_kabuli_chr04	48244234	AA	GG	1946836266
SNP_P4_66200_48244305	NC_021163.1	Ca_kabuli_chr04	48244305	GG	AA	1946836268
SNP_P4_66201_48244495	NC_021163.1	Ca_kabuli_chr04	48244495	GG	CC	1946836270
SNP_P4_66202_48244571	NC_021163.1	Ca_kabuli_chr04	48244571	CC	TT	1946836272
SNP_P4_66203_48244582	NC_021163.1	Ca_kabuli_chr04	48244582	AA	CC	1946836274
SNP_P4_66204_48244594	NC_021163.1	Ca_kabuli_chr04	48244594	AA	GG	1946836276
SNP_P4_66205_48244610	NC_021163.1	Ca_kabuli_chr04	48244610	CC	TT	1946836278
SNP_P4_66206_48247218	NC_021163.1	Ca_kabuli_chr04	48247218	TT	CC	1946836281
SNP_P4_66207_48247369	NC_021163.1	Ca_kabuli_chr04	48247369	CC	TT	1946836283
SNP_P4_66208_48247705	NC_021163.1	Ca_kabuli_chr04	48247705	TT	AA	1946836285
SNP_P4_66210_48248170	NC_021163.1	Ca_kabuli_chr04	48248170	AA	GG	1946836287
SNP_P4_66211_48255076	NC_021163.1	Ca_kabuli_chr04	48255076	CC	TT	1946836289
SNP_P4_66212_48255101	NC_021163.1	Ca_kabuli_chr04	48255101	CC	TT	1946836291
SNP_P4_66213_48255115	NC_021163.1	Ca_kabuli_chr04	48255115	GG	TT	1946836293
SNP_P4_66214_48255138	NC_021163.1	Ca_kabuli_chr04	48255138	CC	TT	1946836295
SNP_P4_66215_48255174	NC_021163.1	Ca_kabuli_chr04	48255174	TT	AA	1946836297
SNP_P4_66216_48256377	NC_021163.1	Ca_kabuli_chr04	48256377	AA	CC	1946836299
SNP_P4_66217_48256428	NC_021163.1	Ca_kabuli_chr04	48256428	GG	CC	1946836301
SNP_P4_66218_48256475	NC_021163.1	Ca_kabuli_chr04	48256475	AA	CC	1946836303
SNP_P4_66219_48256566	NC_021163.1	Ca_kabuli_chr04	48256566	AA	GG	1946836305
SNP_P4_66220_48256600	NC_021163.1	Ca_kabuli_chr04	48256600	CC	TT	1946836307
SNP_P4_66221_48259494	NC_021163.1	Ca_kabuli_chr04	48259494	AA	GG	1946836309
SNP_P4_66222_48259835	NC_021163.1	Ca_kabuli_chr04	48259835	CC	TT	1946836311
SNP_P4_66224_48262947	NC_021163.1	Ca_kabuli_chr04	48262947	TT	CC	1946836313
SNP_P4_66226_48263292	NC_021163.1	Ca_kabuli_chr04	48263292	CC	TT	1946836315
SNP_P4_66227_48263603	NC_021163.1	Ca_kabuli_chr04	48263603	AA	GG	1946836317
SNP_P4_66228_48265078	NC_021163.1	Ca_kabuli_chr04	48265078	AA	GG	1946836319
SNP_P4_66229_48265350	NC_021163.1	Ca_kabuli_chr04	48265350	CC	TT	1946836321
SNP_P4_66231_48266024	NC_021163.1	Ca_kabuli_chr04	48266024	GG	AA	1946836323
SNP_P4_66232_48266889	NC_021163.1	Ca_kabuli_chr04	48266889	TT	CC	1946836325
SNP_P4_66233_48268868	NC_021163.1	Ca_kabuli_chr04	48268868	TT	AA	1946836327
SNP_P4_66234_48270212	NC_021163.1	Ca_kabuli_chr04	48270212	CC	AA	1946836329
SNP_P4_66235_48272422	NC_021163.1	Ca_kabuli_chr04	48272422	GG	AA	1946836331
SNP_P4_66236_48272480	NC_021163.1	Ca_kabuli_chr04	48272480	TT	AA	1946836333
SNP_P4_66237_48272837	NC_021163.1	Ca_kabuli_chr04	48272837	CC	AA	1946836335
SNP_P4_66238_48274429	NC_021163.1	Ca_kabuli_chr04	48274429	AA	TT	1946836337
SNP_P4_66239_48275728	NC_021163.1	Ca_kabuli_chr04	48275728	GG	AA	1946836339
SNP_P4_66240_48275740	NC_021163.1	Ca_kabuli_chr04	48275740	AA	TT	1946836341
SNP_P4_66241_48276584	NC_021163.1	Ca_kabuli_chr04	48276584	GG	TT	1946836343
SNP_P4_66242_48277248	NC_021163.1	Ca_kabuli_chr04	48277248	AA	TT	1946836346

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_66244_48277616	NC_021163.1	Ca_kabuli_chr04	48277616	AA	GG	1946836350
SNP_P4_66245_48277646	NC_021163.1	Ca_kabuli_chr04	48277646	TT	AA	1946836352
SNP_P4_66246_48277932	NC_021163.1	Ca_kabuli_chr04	48277932	TT	CC	1946836354
SNP_P4_66247_48278576	NC_021163.1	Ca_kabuli_chr04	48278576	GG	AA	1946836356
SNP_P4_66248_48278587	NC_021163.1	Ca_kabuli_chr04	48278587	TT	GG	1946836358
SNP_P4_66249_48278646	NC_021163.1	Ca_kabuli_chr04	48278646	GG	AA	1946836360
SNP_P4_66250_48278651	NC_021163.1	Ca_kabuli_chr04	48278651	AA	GG	1946836362
SNP_P4_66252_48278693	NC_021163.1	Ca_kabuli_chr04	48278693	GG	AA	1946836364
SNP_P4_66253_48278917	NC_021163.1	Ca_kabuli_chr04	48278917	TT	CC	1946836366
SNP_P4_66254_48278919	NC_021163.1	Ca_kabuli_chr04	48278919	CC	GG	1946836368
SNP_P4_66255_48278973	NC_021163.1	Ca_kabuli_chr04	48278973	CC	TT	1946836370
SNP_P4_66257_48279338	NC_021163.1	Ca_kabuli_chr04	48279338	AA	GG	1946836372
SNP_P4_66258_48279350	NC_021163.1	Ca_kabuli_chr04	48279350	TT	AA	1946836374
SNP_P4_66260_48291855	NC_021163.1	Ca_kabuli_chr04	48291855	GG	AA	1946836376
SNP_P4_66261_48291923	NC_021163.1	Ca_kabuli_chr04	48291923	CC	AA	1946836378
SNP_P4_66262_48291926	NC_021163.1	Ca_kabuli_chr04	48291926	TT	CC	1946836380
SNP_P4_66263_48291927	NC_021163.1	Ca_kabuli_chr04	48291927	CC	AA	1946836382
SNP_P4_66264_48292370	NC_021163.1	Ca_kabuli_chr04	48292370	AA	TT	1946836384
SNP_P4_66265_48292385	NC_021163.1	Ca_kabuli_chr04	48292385	GG	CC	1946836386
SNP_P4_66266_48293942	NC_021163.1	Ca_kabuli_chr04	48293942	CC	TT	1946836388
SNP_P4_66268_48295365	NC_021163.1	Ca_kabuli_chr04	48295365	CC	TT	1946836390
SNP_P4_66269_48296294	NC_021163.1	Ca_kabuli_chr04	48296294	AA	TT	1946836392
SNP_P4_66271_48297989	NC_021163.1	Ca_kabuli_chr04	48297989	CC	TT	1946836394
SNP_P4_66272_48298511	NC_021163.1	Ca_kabuli_chr04	48298511	AA	TT	1946836396
SNP_P4_66273_48298549	NC_021163.1	Ca_kabuli_chr04	48298549	AA	GG	1946836399
SNP_P4_66275_48299804	NC_021163.1	Ca_kabuli_chr04	48299804	TT	CC	1946836401
SNP_P4_66276_48299808	NC_021163.1	Ca_kabuli_chr04	48299808	GG	AA	1946836403
SNP_P4_66277_48299839	NC_021163.1	Ca_kabuli_chr04	48299839	TT	CC	1946836405
SNP_P4_66278_48299940	NC_021163.1	Ca_kabuli_chr04	48299940	GG	AA	1946836407
SNP_P4_66279_48299955	NC_021163.1	Ca_kabuli_chr04	48299955	TT	CC	1946836409
SNP_P4_66280_48300164	NC_021163.1	Ca_kabuli_chr04	48300164	CC	TT	1946836411
SNP_P4_66281_48300206	NC_021163.1	Ca_kabuli_chr04	48300206	AA	CC	1946836413
SNP_P4_66286_48304831	NC_021163.1	Ca_kabuli_chr04	48304831	CC	AA	1946836415
SNP_P4_66287_48304852	NC_021163.1	Ca_kabuli_chr04	48304852	TT	AA	1946836418
SNP_P4_66288_48304857	NC_021163.1	Ca_kabuli_chr04	48304857	TT	CC	1946836420
SNP_P4_66289_48304914	NC_021163.1	Ca_kabuli_chr04	48304914	AA	GG	1946836422
SNP_P4_66290_48305839	NC_021163.1	Ca_kabuli_chr04	48305839	AA	TT	1946836424
SNP_P4_66291_48306460	NC_021163.1	Ca_kabuli_chr04	48306460	TT	AA	1946836426
SNP_P4_66292_48306488	NC_021163.1	Ca_kabuli_chr04	48306488	CC	TT	1946836428
SNP_P4_66294_48306523	NC_021163.1	Ca_kabuli_chr04	48306523	GG	TT	1946836431
SNP_P4_66295_48307816	NC_021163.1	Ca_kabuli_chr04	48307816	GG	AA	1946836433

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_66299_48308971	NC_021163.1	Ca_kabuli_chr04	48308971	TT	CC	1946836439
SNP_P4_66300_48308998	NC_021163.1	Ca_kabuli_chr04	48308998	AA	GG	1946836441
SNP_P4_66301_48309006	NC_021163.1	Ca_kabuli_chr04	48309006	TT	AA	1946836443
SNP_P4_66302_48309029	NC_021163.1	Ca_kabuli_chr04	48309029	AA	GG	1946836446
SNP_P4_66303_48309032	NC_021163.1	Ca_kabuli_chr04	48309032	GG	AA	1946836448
SNP_P4_66304_48309033	NC_021163.1	Ca_kabuli_chr04	48309033	CC	TT	1946836450
SNP_P4_66305_48309199	NC_021163.1	Ca_kabuli_chr04	48309199	GG	AA	1946836452
SNP_P4_66306_48309237	NC_021163.1	Ca_kabuli_chr04	48309237	GG	TT	1946836454
SNP_P4_66308_48309723	NC_021163.1	Ca_kabuli_chr04	48309723	AA	TT	1946836456
SNP_P4_66310_48310843	NC_021163.1	Ca_kabuli_chr04	48310843	AA	TT	1946836458
SNP_P4_66311_48314503	NC_021163.1	Ca_kabuli_chr04	48314503	AA	CC	1946836460
SNP_P4_66313_48314847	NC_021163.1	Ca_kabuli_chr04	48314847	TT	AA	1946836462
SNP_P4_66314_48314865	NC_021163.1	Ca_kabuli_chr04	48314865	TT	CC	1946836464
SNP_P4_66316_48315224	NC_021163.1	Ca_kabuli_chr04	48315224	AA	CC	1946836466
SNP_P4_66317_48315535	NC_021163.1	Ca_kabuli_chr04	48315535	TT	AA	1946836469
SNP_P4_66318_48315568	NC_021163.1	Ca_kabuli_chr04	48315568	TT	CC	1946836471
SNP_P4_66319_48315862	NC_021163.1	Ca_kabuli_chr04	48315862	AA	CC	1946836473
SNP_P4_66320_48316180	NC_021163.1	Ca_kabuli_chr04	48316180	AA	TT	1946836475
SNP_P4_66322_48316479	NC_021163.1	Ca_kabuli_chr04	48316479	GG	AA	1946836477
SNP_P4_66323_48316971	NC_021163.1	Ca_kabuli_chr04	48316971	AA	GG	1946836479
SNP_P4_66324_48316981	NC_021163.1	Ca_kabuli_chr04	48316981	GG	AA	1946836481
SNP_P4_66325_48317494	NC_021163.1	Ca_kabuli_chr04	48317494	AA	GG	1946836483
SNP_P4_66326_48317629	NC_021163.1	Ca_kabuli_chr04	48317629	GG	AA	1946836485
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SNP_P4_66331_48323504	NC_021163.1	Ca_kabuli_chr04	48323504	CC	TT	1946836494
SNP_P4_66332_48323514	NC_021163.1	Ca_kabuli_chr04	48323514	GG	TT	1946836496
SNP_P4_66333_48324061	NC_021163.1	Ca_kabuli_chr04	48324061	GG	TT	1946836498
SNP_P4_66334_48324193	NC_021163.1	Ca_kabuli_chr04	48324193	AA	TT	1946836500
SNP_P4_66335_48324454	NC_021163.1	Ca_kabuli_chr04	48324454	TT	AA	1946836502
SNP_P4_66336_48325103	NC_021163.1	Ca_kabuli_chr04	48325103	TT	CC	1946836504
SNP_P4_66337_48325611	NC_021163.1	Ca_kabuli_chr04	48325611	GG	AA	1946836506
SNP_P4_66338_48326201	NC_021163.1	Ca_kabuli_chr04	48326201	CC	TT	1946836508
SNP_P4_66339_48326893	NC_021163.1	Ca_kabuli_chr04	48326893	TT	AA	1946836510
SNP_P4_66340_48326898	NC_021163.1	Ca_kabuli_chr04	48326898	AA	TT	1946836512
SNP_P4_66341_48326952	NC_021163.1	Ca_kabuli_chr04	48326952	CC	TT	1946836514
SNP_P4_66342_48326976	NC_021163.1	Ca_kabuli_chr04	48326976	TT	AA	1946836516
SNP_P4_66343_48327014	NC_021163.1	Ca_kabuli_chr04	48327014	AA	TT	1946836518
SNP_P4_66346_48331990	NC_021163.1	Ca_kabuli_chr04	48331990	CC	AA	1946836520

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_66350_48333183	NC_021163.1	Ca_kabuli_chr04	48333183	CC	TT	1946836526
SNP_P4_66351_48335890	NC_021163.1	Ca_kabuli_chr04	48335890	AA	TT	1946836528
SNP_P4_66353_48338164	NC_021163.1	Ca_kabuli_chr04	48338164	GG	TT	1946836530
SNP_P4_66354_48338189	NC_021163.1	Ca_kabuli_chr04	48338189	AA	GG	1946836532
SNP_P4_66355_48338208	NC_021163.1	Ca_kabuli_chr04	48338208	GG	AA	1946836534
SNP_P4_66356_48338240	NC_021163.1	Ca_kabuli_chr04	48338240	TT	CC	1946836536
SNP_P4_66357_48338269	NC_021163.1	Ca_kabuli_chr04	48338269	TT	CC	1946836538
SNP_P4_66358_48338873	NC_021163.1	Ca_kabuli_chr04	48338873	GG	AA	1946836540
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SNP_P4_66362_48340654	NC_021163.1	Ca_kabuli_chr04	48340654	CC	TT	1946836544
SNP_P4_66363_48340669	NC_021163.1	Ca_kabuli_chr04	48340669	GG	AA	1946836546
SNP_P4_66364_48340934	NC_021163.1	Ca_kabuli_chr04	48340934	CC	TT	1946836548
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SNP_P4_66366_48341241	NC_021163.1	Ca_kabuli_chr04	48341241	TT	CC	1946836552
SNP_P4_66367_48341390	NC_021163.1	Ca_kabuli_chr04	48341390	GG	AA	1946836554
SNP_P4_66368_48341406	NC_021163.1	Ca_kabuli_chr04	48341406	GG	AA	1946836556
SNP_P4_66369_48341407	NC_021163.1	Ca_kabuli_chr04	48341407	TT	AA	1946836558
SNP_P4_66370_48341440	NC_021163.1	Ca_kabuli_chr04	48341440	AA	GG	1946836560
SNP_P4_66371_48341480	NC_021163.1	Ca_kabuli_chr04	48341480	GG	TT	1946836562
SNP_P4_66372_48341503	NC_021163.1	Ca_kabuli_chr04	48341503	CC	GG	1946836564
SNP_P4_66373_48341542	NC_021163.1	Ca_kabuli_chr04	48341542	AA	GG	1946836566
SNP_P4_66374_48341822	NC_021163.1	Ca_kabuli_chr04	48341822	GG	AA	1946836568
SNP_P4_66375_48341826	NC_021163.1	Ca_kabuli_chr04	48341826	AA	CC	1946836570
SNP_P4_66376_48341962	NC_021163.1	Ca_kabuli_chr04	48341962	CC	TT	1946836572
SNP_P4_66378_48342004	NC_021163.1	Ca_kabuli_chr04	48342004	TT	AA	1946836574
SNP_P4_66379_48342021	NC_021163.1	Ca_kabuli_chr04	48342021	CC	TT	1946836577
SNP_P4_66380_48342064	NC_021163.1	Ca_kabuli_chr04	48342064	CC	TT	1946836580
SNP_P4_66381_48342076	NC_021163.1	Ca_kabuli_chr04	48342076	GG	AA	1946836582
SNP_P4_66383_48342753	NC_021163.1	Ca_kabuli_chr04	48342753	AA	TT	1946836584
SNP_P4_66384_48342814	NC_021163.1	Ca_kabuli_chr04	48342814	TT	GG	1946836586
SNP_P4_66385_48343363	NC_021163.1	Ca_kabuli_chr04	48343363	TT	CC	1946836588
SNP_P4_66387_48344797	NC_021163.1	Ca_kabuli_chr04	48344797	CC	GG	1946836590
SNP_P4_66388_48344984	NC_021163.1	Ca_kabuli_chr04	48344984	GG	AA	1946836592
SNP_P4_66389_48345093	NC_021163.1	Ca_kabuli_chr04	48345093	TT	AA	1946836594
SNP_P4_66390_48345202	NC_021163.1	Ca_kabuli_chr04	48345202	AA	GG	1946836596
SNP_P4_66391_48345399	NC_021163.1	Ca_kabuli_chr04	48345399	TT	CC	1946836598
SNP_P4_66392_48347400	NC_021163.1	Ca_kabuli_chr04	48347400	AA	TT	1946836600
SNP_P4_66393_48348447	NC_021163.1	Ca_kabuli_chr04	48348447	AA	CC	1946836602
SNP_P4_66394_48350095	NC_021163.1	Ca_kabuli_chr04	48350095	AA	CC	1946836604
SNP_P4_66395_48350140	NC_021163.1	Ca_kabuli_chr04	48350140	AA	GG	1946836606

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_66398_48351855	NC_021163.1	Ca_kabuli_chr04	48351855	TT	GG	1946836610
SNP_P4_66399_48351873	NC_021163.1	Ca_kabuli_chr04	48351873	AA	GG	1946836612
SNP_P4_66400_48351919	NC_021163.1	Ca_kabuli_chr04	48351919	AA	CC	1946836614
SNP_P4_66401_48351948	NC_021163.1	Ca_kabuli_chr04	48351948	AA	GG	1946836616
SNP_P4_66402_48352940	NC_021163.1	Ca_kabuli_chr04	48352940	CC	AA	1946836618
SNP_P4_66403_48353116	NC_021163.1	Ca_kabuli_chr04	48353116	CC	TT	1946836620
SNP_P4_66404_48354750	NC_021163.1	Ca_kabuli_chr04	48354750	CC	TT	1946836622
SNP_P4_66405_48359900	NC_021163.1	Ca_kabuli_chr04	48359900	GG	TT	1946836624
SNP_P4_66406_48361612	NC_021163.1	Ca_kabuli_chr04	48361612	GG	TT	1946836626
SNP_P4_66407_48363940	NC_021163.1	Ca_kabuli_chr04	48363940	GG	AA	1946836628
SNP_P4_66408_48363945	NC_021163.1	Ca_kabuli_chr04	48363945	GG	TT	1946836630
SNP_P4_66409_48363972	NC_021163.1	Ca_kabuli_chr04	48363972	AA	TT	1946836632
SNP_P4_66410_48364170	NC_021163.1	Ca_kabuli_chr04	48364170	AA	GG	1946836634
SNP_P4_66412_48366445	NC_021163.1	Ca_kabuli_chr04	48366445	AA	GG	1946836636
SNP_P4_66414_48368676	NC_021163.1	Ca_kabuli_chr04	48368676	GG	CC	1946836638
SNP_P4_66415_48369088	NC_021163.1	Ca_kabuli_chr04	48369088	CC	TT	1946836640
SNP_P4_66416_48370172	NC_021163.1	Ca_kabuli_chr04	48370172	AA	CC	1946836642
SNP_P4_66417_48380839	NC_021163.1	Ca_kabuli_chr04	48380839	CC	TT	1946836644
SNP_P4_66418_48380841	NC_021163.1	Ca_kabuli_chr04	48380841	TT	CC	1946836646
SNP_P4_66419_48382145	NC_021163.1	Ca_kabuli_chr04	48382145	CC	TT	1946836648
SNP_P4_66420_48382262	NC_021163.1	Ca_kabuli_chr04	48382262	GG	AA	1946836650
SNP_P4_66421_48382274	NC_021163.1	Ca_kabuli_chr04	48382274	TT	CC	1946836652
SNP_P4_66422_48382666	NC_021163.1	Ca_kabuli_chr04	48382666	CC	GG	1946836654
SNP_P4_66423_48383114	NC_021163.1	Ca_kabuli_chr04	48383114	GG	CC	1946836656
SNP_P4_66424_48383447	NC_021163.1	Ca_kabuli_chr04	48383447	CC	TT	1946836658
SNP_P4_66425_48385339	NC_021163.1	Ca_kabuli_chr04	48385339	GG	AA	1946836660
SNP_P4_66427_48386950	NC_021163.1	Ca_kabuli_chr04	48386950	GG	AA	1946836662
SNP_P4_66428_48389100	NC_021163.1	Ca_kabuli_chr04	48389100	TT	CC	1946836664
SNP_P4_66429_48389107	NC_021163.1	Ca_kabuli_chr04	48389107	AA	TT	1946836666
SNP_P4_66430_48389161	NC_021163.1	Ca_kabuli_chr04	48389161	AA	GG	1946836668
SNP_P4_66431_48389820	NC_021163.1	Ca_kabuli_chr04	48389820	TT	GG	1946836670
SNP_P4_66433_48389878	NC_021163.1	Ca_kabuli_chr04	48389878	GG	TT	1946836672
SNP_P4_66434_48389926	NC_021163.1	Ca_kabuli_chr04	48389926	TT	GG	1946836674
SNP_P4_66435_48392422	NC_021163.1	Ca_kabuli_chr04	48392422	CC	TT	1946836676
SNP_P4_66436_48394263	NC_021163.1	Ca_kabuli_chr04	48394263	AA	GG	1946836678
SNP_P4_66437_48394288	NC_021163.1	Ca_kabuli_chr04	48394288	TT	CC	1946836681
SNP_P4_66438_48395329	NC_021163.1	Ca_kabuli_chr04	48395329	AA	GG	1946836683
SNP_P4_66439_48395373	NC_021163.1	Ca_kabuli_chr04	48395373	AA	GG	1946836685
SNP_P4_66440_48396395	NC_021163.1	Ca_kabuli_chr04	48396395	TT	GG	1946836687
SNP_P4_66441_48398914	NC_021163.1	Ca_kabuli_chr04	48398914	CC	GG	1946836689
SNP_P4_66442_48401112	NC_021163.1	Ca_kabuli_chr04	48401112	AA	GG	1946836691

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_66444_48401374	NC_021163.1	Ca_kabuli_chr04	48401374	CC	TT	1946836695
SNP_P4_66445_48401385	NC_021163.1	Ca_kabuli_chr04	48401385	GG	AA	1946836697
SNP_P4_66447_48403777	NC_021163.1	Ca_kabuli_chr04	48403777	TT	CC	1946836699
SNP_P4_66448_48403948	NC_021163.1	Ca_kabuli_chr04	48403948	GG	AA	1946836701
SNP_P4_66449_48403955	NC_021163.1	Ca_kabuli_chr04	48403955	AA	CC	1946836703
SNP_P4_66450_48404005	NC_021163.1	Ca_kabuli_chr04	48404005	CC	TT	1946836705
SNP_P4_66452_48404158	NC_021163.1	Ca_kabuli_chr04	48404158	CC	GG	1946836707
SNP_P4_66453_48404165	NC_021163.1	Ca_kabuli_chr04	48404165	GG	AA	1946836709
SNP_P4_66454_48404396	NC_021163.1	Ca_kabuli_chr04	48404396	AA	TT	1946836712
SNP_P4_66455_48404400	NC_021163.1	Ca_kabuli_chr04	48404400	AA	GG	1946836715
SNP_P4_66456_48404540	NC_021163.1	Ca_kabuli_chr04	48404540	AA	GG	1946836717
SNP_P4_66457_48404613	NC_021163.1	Ca_kabuli_chr04	48404613	GG	TT	1946836720
SNP_P4_66459_48404846	NC_021163.1	Ca_kabuli_chr04	48404846	TT	AA	1946836722
SNP_P4_66463_48405379	NC_021163.1	Ca_kabuli_chr04	48405379	CC	AA	1946836724
SNP_P4_66464_48406708	NC_021163.1	Ca_kabuli_chr04	48406708	CC	TT	1946836726
SNP_P4_66465_48406972	NC_021163.1	Ca_kabuli_chr04	48406972	AA	GG	1946836728
SNP_P4_66466_48406973	NC_021163.1	Ca_kabuli_chr04	48406973	AA	TT	1946836730
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SNP_P4_66468_48409678	NC_021163.1	Ca_kabuli_chr04	48409678	TT	AA	1946836734
SNP_P4_66469_48409679	NC_021163.1	Ca_kabuli_chr04	48409679	TT	CC	1946836736
SNP_P4_66470_48409714	NC_021163.1	Ca_kabuli_chr04	48409714	AA	CC	1946836738
SNP_P4_66471_48409726	NC_021163.1	Ca_kabuli_chr04	48409726	CC	AA	1946836740
SNP_P4_66472_48410025	NC_021163.1	Ca_kabuli_chr04	48410025	TT	CC	1946836742
SNP_P4_66476_48412087	NC_021163.1	Ca_kabuli_chr04	48412087	AA	GG	1946836744
SNP_P4_66477_48412110	NC_021163.1	Ca_kabuli_chr04	48412110	AA	TT	1946836746
SNP_P4_66478_48412118	NC_021163.1	Ca_kabuli_chr04	48412118	TT	AA	1946836748
SNP_P4_66479_48413233	NC_021163.1	Ca_kabuli_chr04	48413233	GG	AA	1946836750
SNP_P4_66480_48413317	NC_021163.1	Ca_kabuli_chr04	48413317	CC	TT	1946836752
SNP_P4_66482_48427993	NC_021163.1	Ca_kabuli_chr04	48427993	GG	AA	1946836754
SNP_P4_66483_48428027	NC_021163.1	Ca_kabuli_chr04	48428027	TT	CC	1946836756
SNP_P4_66484_48428037	NC_021163.1	Ca_kabuli_chr04	48428037	AA	GG	1946836758
SNP_P4_66485_48428040	NC_021163.1	Ca_kabuli_chr04	48428040	GG	AA	1946836760
SNP_P4_66486_48428046	NC_021163.1	Ca_kabuli_chr04	48428046	TT	AA	1946836762
SNP_P4_66487_48428864	NC_021163.1	Ca_kabuli_chr04	48428864	CC	AA	1946836764
SNP_P4_66489_48431353	NC_021163.1	Ca_kabuli_chr04	48431353	TT	AA	1946836766
SNP_P4_66490_48431923	NC_021163.1	Ca_kabuli_chr04	48431923	TT	CC	1946836768
SNP_P4_66491_48432057	NC_021163.1	Ca_kabuli_chr04	48432057	AA	GG	1946836770
SNP_P4_66492_48432248	NC_021163.1	Ca_kabuli_chr04	48432248	GG	TT	1946836772
SNP_P4_66493_48432295	NC_021163.1	Ca_kabuli_chr04	48432295	TT	GG	1946836774
SNP_P4_66494_48432329	NC_021163.1	Ca_kabuli_chr04	48432329	GG	AA	1946836776
SNP_P4_66495_48432397	NC_021163.1	Ca_kabuli_chr04	48432397	AA	GG	1946836778

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_66497_48432608	NC_021163.1	Ca_kabuli_chr04	48432608	GG	AA	1946836782
SNP_P4_66498_48433537	NC_021163.1	Ca_kabuli_chr04	48433537	AA	GG	1946836784
SNP_P4_66499_48434211	NC_021163.1	Ca_kabuli_chr04	48434211	GG	AA	1946836787
SNP_P4_66500_48434580	NC_021163.1	Ca_kabuli_chr04	48434580	AA	GG	1946836789
SNP_P4_66501_48434622	NC_021163.1	Ca_kabuli_chr04	48434622	GG	AA	1946836791
SNP_P4_66502_48434640	NC_021163.1	Ca_kabuli_chr04	48434640	TT	CC	1946836793
SNP_P4_66503_48434699	NC_021163.1	Ca_kabuli_chr04	48434699	AA	GG	1946836795
SNP_P4_66505_48434803	NC_021163.1	Ca_kabuli_chr04	48434803	TT	AA	1946836797
SNP_P4_66506_48434827	NC_021163.1	Ca_kabuli_chr04	48434827	GG	AA	1946836799
SNP_P4_66507_48434828	NC_021163.1	Ca_kabuli_chr04	48434828	AA	TT	1946836801
SNP_P4_66508_48435124	NC_021163.1	Ca_kabuli_chr04	48435124	GG	AA	1946836803
SNP_P4_66509_48435704	NC_021163.1	Ca_kabuli_chr04	48435704	TT	CC	1946836805
SNP_P4_66510_48435743	NC_021163.1	Ca_kabuli_chr04	48435743	GG	CC	1946836807
SNP_P4_66511_48436167	NC_021163.1	Ca_kabuli_chr04	48436167	CC	GG	1946836809
SNP_P4_66513_48436642	NC_021163.1	Ca_kabuli_chr04	48436642	AA	GG	1946836811
SNP_P4_66514_48436919	NC_021163.1	Ca_kabuli_chr04	48436919	GG	TT	1946836813
SNP_P4_66515_48436944	NC_021163.1	Ca_kabuli_chr04	48436944	CC	TT	1946836815
SNP_P4_66516_48436956	NC_021163.1	Ca_kabuli_chr04	48436956	GG	AA	1946836817
SNP_P4_66517_48437365	NC_021163.1	Ca_kabuli_chr04	48437365	AA	GG	1946836819
SNP_P4_66518_48437386	NC_021163.1	Ca_kabuli_chr04	48437386	CC	AA	1946836821
SNP_P4_66519_48440235	NC_021163.1	Ca_kabuli_chr04	48440235	GG	AA	1946836823
SNP_P4_66520_48440250	NC_021163.1	Ca_kabuli_chr04	48440250	TT	GG	1946836825
SNP_P4_66522_48440628	NC_021163.1	Ca_kabuli_chr04	48440628	GG	AA	1946836827
SNP_P4_66523_48440732	NC_021163.1	Ca_kabuli_chr04	48440732	TT	CC	1946836829
SNP_P4_66524_48441603	NC_021163.1	Ca_kabuli_chr04	48441603	GG	AA	1946836831
SNP_P4_66525_48442513	NC_021163.1	Ca_kabuli_chr04	48442513	TT	CC	1946836833
SNP_P4_66526_48443314	NC_021163.1	Ca_kabuli_chr04	48443314	CC	TT	1946836835
SNP_P4_66527_48443345	NC_021163.1	Ca_kabuli_chr04	48443345	CC	TT	1946836837
SNP_P4_66529_48443507	NC_021163.1	Ca_kabuli_chr04	48443507	CC	TT	1946836838
SNP_P4_66530_48443773	NC_021163.1	Ca_kabuli_chr04	48443773	TT	GG	1946836840
SNP_P4_66531_48443797	NC_021163.1	Ca_kabuli_chr04	48443797	AA	TT	1946836843
SNP_P4_66532_48444140	NC_021163.1	Ca_kabuli_chr04	48444140	GG	TT	1946836845
SNP_P4_66533_48444549	NC_021163.1	Ca_kabuli_chr04	48444549	TT	AA	1946836847
SNP_P4_66534_48444579	NC_021163.1	Ca_kabuli_chr04	48444579	GG	TT	1946836849
SNP_P4_66535_48444590	NC_021163.1	Ca_kabuli_chr04	48444590	TT	CC	1946836851
SNP_P4_66536_48444591	NC_021163.1	Ca_kabuli_chr04	48444591	GG	AA	1946836853
SNP_P4_66537_48444593	NC_021163.1	Ca_kabuli_chr04	48444593	AA	TT	1946836855
SNP_P4_66538_48444607	NC_021163.1	Ca_kabuli_chr04	48444607	AA	GG	1946836857
SNP_P4_66539_48444629	NC_021163.1	Ca_kabuli_chr04	48444629	TT	AA	1946836859
SNP_P4_66540_48444630	NC_021163.1	Ca_kabuli_chr04	48444630	GG	TT	1946836861
SNP_P4_66541_48444633	NC_021163.1	Ca_kabuli_chr04	48444633	CC	TT	1946836863

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_66543_48444766	NC_021163.1	Ca_kabuli_chr04	48444766	CC	TT	1946836867
SNP_P4_66544_48444790	NC_021163.1	Ca_kabuli_chr04	48444790	GG	AA	1946836869
SNP_P4_66545_48444840	NC_021163.1	Ca_kabuli_chr04	48444840	GG	AA	1946836871
SNP_P4_66546_48444866	NC_021163.1	Ca_kabuli_chr04	48444866	AA	GG	1946836873
SNP_P4_66547_48444947	NC_021163.1	Ca_kabuli_chr04	48444947	TT	GG	1946836875
SNP_P4_66548_48444951	NC_021163.1	Ca_kabuli_chr04	48444951	CC	TT	1946836877
SNP_P4_66549_48444994	NC_021163.1	Ca_kabuli_chr04	48444994	TT	CC	1946836879
SNP_P4_66550_48445004	NC_021163.1	Ca_kabuli_chr04	48445004	GG	AA	1946836881
SNP_P4_66551_48445008	NC_021163.1	Ca_kabuli_chr04	48445008	CC	TT	1946836883
SNP_P4_66552_48445058	NC_021163.1	Ca_kabuli_chr04	48445058	GG	AA	1946836885
SNP_P4_66553_48445059	NC_021163.1	Ca_kabuli_chr04	48445059	GG	AA	1946836887
SNP_P4_66554_48445064	NC_021163.1	Ca_kabuli_chr04	48445064	TT	AA	1946836889
SNP_P4_66555_48445117	NC_021163.1	Ca_kabuli_chr04	48445117	GG	AA	1946836891
SNP_P4_66556_48445148	NC_021163.1	Ca_kabuli_chr04	48445148	AA	CC	1946836894
SNP_P4_66557_48445192	NC_021163.1	Ca_kabuli_chr04	48445192	CC	TT	1946836896
SNP_P4_66559_48445238	NC_021163.1	Ca_kabuli_chr04	48445238	CC	AA	1946836898
SNP_P4_66560_48445275	NC_021163.1	Ca_kabuli_chr04	48445275	CC	TT	1946836900
SNP_P4_66561_48445744	NC_021163.1	Ca_kabuli_chr04	48445744	GG	CC	1946836902
SNP_P4_66563_48445822	NC_021163.1	Ca_kabuli_chr04	48445822	CC	TT	1946836904
SNP_P4_66564_48445883	NC_021163.1	Ca_kabuli_chr04	48445883	TT	GG	1946836906
SNP_P4_66565_48445884	NC_021163.1	Ca_kabuli_chr04	48445884	GG	TT	1946836908
SNP_P4_66566_48445889	NC_021163.1	Ca_kabuli_chr04	48445889	TT	CC	1946836910
SNP_P4_66567_48446045	NC_021163.1	Ca_kabuli_chr04	48446045	GG	AA	1946836912
SNP_P4_66569_48446124	NC_021163.1	Ca_kabuli_chr04	48446124	AA	GG	1946836914
SNP_P4_66570_48446177	NC_021163.1	Ca_kabuli_chr04	48446177	CC	TT	1946836916
SNP_P4_66571_48446181	NC_021163.1	Ca_kabuli_chr04	48446181	CC	TT	1946836918
SNP_P4_66572_48446371	NC_021163.1	Ca_kabuli_chr04	48446371	GG	AA	1946836920
SNP_P4_66574_48446864	NC_021163.1	Ca_kabuli_chr04	48446864	GG	AA	1946836922
SNP_P4_66575_48446870	NC_021163.1	Ca_kabuli_chr04	48446870	CC	TT	1946836924
SNP_P4_66576_48447100	NC_021163.1	Ca_kabuli_chr04	48447100	TT	CC	1946836926
SNP_P4_66577_48447119	NC_021163.1	Ca_kabuli_chr04	48447119	TT	GG	1946836928
SNP_P4_66579_48447394	NC_021163.1	Ca_kabuli_chr04	48447394	TT	CC	1946836930
SNP_P4_66580_48448889	NC_021163.1	Ca_kabuli_chr04	48448889	CC	TT	1946836932
SNP_P4_66581_48448892	NC_021163.1	Ca_kabuli_chr04	48448892	CC	TT	1946836934
SNP_P4_66582_48449337	NC_021163.1	Ca_kabuli_chr04	48449337	AA	GG	1946836936
SNP_P4_66583_48449364	NC_021163.1	Ca_kabuli_chr04	48449364	TT	CC	1946836938
SNP_P4_66584_48450167	NC_021163.1	Ca_kabuli_chr04	48450167	AA	GG	1946836940
SNP_P4_66585_48450181	NC_021163.1	Ca_kabuli_chr04	48450181	AA	TT	1946836941
SNP_P4_66586_48450367	NC_021163.1	Ca_kabuli_chr04	48450367	GG	AA	1946836943
SNP_P4_66587_48450454	NC_021163.1	Ca_kabuli_chr04	48450454	AA	TT	1946836945
SNP_P4_66588_48450769	NC_021163.1	Ca_kabuli_chr04	48450769	CC	TT	1946836947

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_66590_48451176	NC_021163.1	Ca_kabuli_chr04	48451176	AA	GG	1946836951
SNP_P4_66591_48451181	NC_021163.1	Ca_kabuli_chr04	48451181	TT	CC	1946836953
SNP_P4_66592_48451227	NC_021163.1	Ca_kabuli_chr04	48451227	TT	CC	1946836955
SNP_P4_66593_48451232	NC_021163.1	Ca_kabuli_chr04	48451232	AA	GG	1946836957
SNP_P4_66595_48451321	NC_021163.1	Ca_kabuli_chr04	48451321	TT	CC	1946836959
SNP_P4_66596_48452059	NC_021163.1	Ca_kabuli_chr04	48452059	AA	GG	1946836961
SNP_P4_66597_48452060	NC_021163.1	Ca_kabuli_chr04	48452060	CC	TT	1946836963
SNP_P4_66600_48455054	NC_021163.1	Ca_kabuli_chr04	48455054	TT	AA	1946836965
SNP_P4_66601_48455326	NC_021163.1	Ca_kabuli_chr04	48455326	TT	CC	1946836967
SNP_P4_66602_48457943	NC_021163.1	Ca_kabuli_chr04	48457943	TT	CC	1946836968
SNP_P4_66603_48459175	NC_021163.1	Ca_kabuli_chr04	48459175	CC	TT	1946836970
SNP_P4_66604_48459274	NC_021163.1	Ca_kabuli_chr04	48459274	GG	AA	1946836972
SNP_P4_66606_48459523	NC_021163.1	Ca_kabuli_chr04	48459523	AA	TT	1946836974
SNP_P4_66608_48460117	NC_021163.1	Ca_kabuli_chr04	48460117	AA	GG	1946836976
SNP_P4_66609_48460501	NC_021163.1	Ca_kabuli_chr04	48460501	TT	CC	1946836978
SNP_P4_66610_48460504	NC_021163.1	Ca_kabuli_chr04	48460504	TT	CC	1946836980
SNP_P4_66611_48460506	NC_021163.1	Ca_kabuli_chr04	48460506	AA	GG	1946836982
SNP_P4_66612_48460519	NC_021163.1	Ca_kabuli_chr04	48460519	TT	CC	1946836984
SNP_P4_66613_48461884	NC_021163.1	Ca_kabuli_chr04	48461884	TT	CC	1946836986
SNP_P4_66614_48461903	NC_021163.1	Ca_kabuli_chr04	48461903	GG	TT	1946836988
SNP_P4_66615_48461976	NC_021163.1	Ca_kabuli_chr04	48461976	CC	TT	1946836990
SNP_P4_66616_48465416	NC_021163.1	Ca_kabuli_chr04	48465416	TT	CC	1946836992
SNP_P4_66617_48466535	NC_021163.1	Ca_kabuli_chr04	48466535	TT	AA	1946836994
SNP_P4_66618_48466599	NC_021163.1	Ca_kabuli_chr04	48466599	AA	GG	1946836996
SNP_P4_66619_48471127	NC_021163.1	Ca_kabuli_chr04	48471127	AA	GG	1946836998
SNP_P4_66620_48471145	NC_021163.1	Ca_kabuli_chr04	48471145	TT	CC	1946837000
SNP_P4_66621_48471413	NC_021163.1	Ca_kabuli_chr04	48471413	TT	CC	1946837002
SNP_P4_66622_48472766	NC_021163.1	Ca_kabuli_chr04	48472766	GG	CC	1946837004
SNP_P4_66623_48472897	NC_021163.1	Ca_kabuli_chr04	48472897	CC	TT	1946837006
SNP_P4_66624_48472943	NC_021163.1	Ca_kabuli_chr04	48472943	CC	AA	1946837008
SNP_P4_66625_48477661	NC_021163.1	Ca_kabuli_chr04	48477661	AA	GG	1946837010
SNP_P4_66626_48477664	NC_021163.1	Ca_kabuli_chr04	48477664	TT	CC	1946837011
SNP_P4_66627_48478817	NC_021163.1	Ca_kabuli_chr04	48478817	TT	CC	1946837013
SNP_P4_66628_48479881	NC_021163.1	Ca_kabuli_chr04	48479881	AA	CC	1946837015
SNP_P4_66629_48479906	NC_021163.1	Ca_kabuli_chr04	48479906	GG	AA	1946837017
SNP_P4_66630_48479920	NC_021163.1	Ca_kabuli_chr04	48479920	AA	GG	1946837019
SNP_P4_66631_48481113	NC_021163.1	Ca_kabuli_chr04	48481113	TT	AA	1946837021
SNP_P4_66632_48481391	NC_021163.1	Ca_kabuli_chr04	48481391	CC	TT	1946837023
SNP_P4_66633_48481425	NC_021163.1	Ca_kabuli_chr04	48481425	GG	AA	1946837025
SNP_P4_66634_48481427	NC_021163.1	Ca_kabuli_chr04	48481427	CC	TT	1946837027
SNP_P4_66635_48481577	NC_021163.1	Ca_kabuli_chr04	48481577	TT	GG	1946837029

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_66638_48487583	NC_021163.1	Ca_kabuli_chr04	48487583	AA	GG	1946837033
SNP_P4_66639_48487622	NC_021163.1	Ca_kabuli_chr04	48487622	GG	TT	1946837035
SNP_P4_66640_48487689	NC_021163.1	Ca_kabuli_chr04	48487689	GG	AA	1946837037
SNP_P4_66641_48488096	NC_021163.1	Ca_kabuli_chr04	48488096	AA	TT	1946837039
SNP_P4_66642_48488115	NC_021163.1	Ca_kabuli_chr04	48488115	TT	GG	1946837041
SNP_P4_66643_48488188	NC_021163.1	Ca_kabuli_chr04	48488188	TT	AA	1946837043
SNP_P4_66644_48493609	NC_021163.1	Ca_kabuli_chr04	48493609	CC	TT	1946837045
SNP_P4_66645_48493645	NC_021163.1	Ca_kabuli_chr04	48493645	CC	TT	1946837047
SNP_P4_66646_48493684	NC_021163.1	Ca_kabuli_chr04	48493684	GG	CC	1946837049
SNP_P4_66647_48494374	NC_021163.1	Ca_kabuli_chr04	48494374	TT	CC	1946837051
SNP_P4_66648_48494417	NC_021163.1	Ca_kabuli_chr04	48494417	TT	CC	1946837053
SNP_P4_66649_48494426	NC_021163.1	Ca_kabuli_chr04	48494426	GG	AA	1946837055
SNP_P4_66650_48494434	NC_021163.1	Ca_kabuli_chr04	48494434	CC	AA	1946837057
SNP_P4_66652_48494545	NC_021163.1	Ca_kabuli_chr04	48494545	TT	GG	1946837059
SNP_P4_66654_48494614	NC_021163.1	Ca_kabuli_chr04	48494614	CC	TT	1946837061
SNP_P4_66655_48494914	NC_021163.1	Ca_kabuli_chr04	48494914	AA	GG	1946837063
SNP_P4_66656_48495002	NC_021163.1	Ca_kabuli_chr04	48495002	AA	TT	1946837065
SNP_P4_66657_48496721	NC_021163.1	Ca_kabuli_chr04	48496721	CC	TT	1946837067
SNP_P4_66658_48498331	NC_021163.1	Ca_kabuli_chr04	48498331	AA	TT	1946837069
SNP_P4_66659_48498334	NC_021163.1	Ca_kabuli_chr04	48498334	GG	TT	1946837070
SNP_P4_66660_48498368	NC_021163.1	Ca_kabuli_chr04	48498368	TT	CC	1946837072
SNP_P4_66661_48498612	NC_021163.1	Ca_kabuli_chr04	48498612	AA	GG	1946837074
SNP_P4_66662_48498750	NC_021163.1	Ca_kabuli_chr04	48498750	TT	AA	1946837076
SNP_P4_66663_48499065	NC_021163.1	Ca_kabuli_chr04	48499065	CC	AA	1946837078
SNP_P4_66664_48499469	NC_021163.1	Ca_kabuli_chr04	48499469	GG	TT	1946837080
SNP_P4_66665_48499477	NC_021163.1	Ca_kabuli_chr04	48499477	TT	GG	1946837082
SNP_P4_66666_48499784	NC_021163.1	Ca_kabuli_chr04	48499784	GG	AA	1946837084
SNP_P4_66667_48499856	NC_021163.1	Ca_kabuli_chr04	48499856	CC	AA	1946837086
SNP_P4_66668_48500117	NC_021163.1	Ca_kabuli_chr04	48500117	GG	TT	1946837088
SNP_P4_66670_48500699	NC_021163.1	Ca_kabuli_chr04	48500699	CC	TT	1946837090
SNP_P4_66671_48501170	NC_021163.1	Ca_kabuli_chr04	48501170	TT	CC	1946837092
SNP_P4_66672_48503257	NC_021163.1	Ca_kabuli_chr04	48503257	TT	AA	1946837094
SNP_P4_66673_48503280	NC_021163.1	Ca_kabuli_chr04	48503280	TT	CC	1946837096
SNP_P4_66675_48503636	NC_021163.1	Ca_kabuli_chr04	48503636	GG	AA	1946837098
SNP_P4_66676_48503653	NC_021163.1	Ca_kabuli_chr04	48503653	AA	TT	1946837100
SNP_P4_66677_48503656	NC_021163.1	Ca_kabuli_chr04	48503656	GG	AA	1946837102
SNP_P4_66678_48503841	NC_021163.1	Ca_kabuli_chr04	48503841	CC	AA	1946837104
SNP_P4_66679_48503935	NC_021163.1	Ca_kabuli_chr04	48503935	GG	AA	1946837106
SNP_P4_66680_48504073	NC_021163.1	Ca_kabuli_chr04	48504073	TT	CC	1946837108
SNP_P4_66681_48504101	NC_021163.1	Ca_kabuli_chr04	48504101	AA	TT	1946837110
SNP_P4_66682_48504330	NC_021163.1	Ca_kabuli_chr04	48504330	CC	GG	1946837112

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_66685_48504685	NC_021163.1	Ca_kabuli_chr04	48504685	GG	CC	1946837116
SNP_P4_66686_48504686	NC_021163.1	Ca_kabuli_chr04	48504686	TT	AA	1946837117
SNP_P4_66688_48505584	NC_021163.1	Ca_kabuli_chr04	48505584	CC	AA	1946837118
SNP_P4_66690_48505819	NC_021163.1	Ca_kabuli_chr04	48505819	TT	CC	1946837119
SNP_P4_66691_48505820	NC_021163.1	Ca_kabuli_chr04	48505820	TT	AA	1946837121
SNP_P4_66692_48508487	NC_021163.1	Ca_kabuli_chr04	48508487	AA	TT	1946837123
SNP_P4_66693_48509311	NC_021163.1	Ca_kabuli_chr04	48509311	CC	TT	1946837125
SNP_P4_66694_48509356	NC_021163.1	Ca_kabuli_chr04	48509356	CC	GG	1946837127
SNP_P4_66696_48509707	NC_021163.1	Ca_kabuli_chr04	48509707	AA	TT	1946837129
SNP_P4_66697_48511628	NC_021163.1	Ca_kabuli_chr04	48511628	TT	AA	1946837131
SNP_P4_66698_48511807	NC_021163.1	Ca_kabuli_chr04	48511807	CC	TT	1946837133
SNP_P4_66699_48511814	NC_021163.1	Ca_kabuli_chr04	48511814	AA	TT	1946837135
SNP_P4_66700_48511817	NC_021163.1	Ca_kabuli_chr04	48511817	TT	CC	1946837137
SNP_P4_66701_48511874	NC_021163.1	Ca_kabuli_chr04	48511874	AA	GG	1946837139
SNP_P4_66702_48511876	NC_021163.1	Ca_kabuli_chr04	48511876	TT	CC	1946837141
SNP_P4_66704_48513349	NC_021163.1	Ca_kabuli_chr04	48513349	AA	TT	1946837143
SNP_P4_66705_48513352	NC_021163.1	Ca_kabuli_chr04	48513352	CC	TT	1946837145
SNP_P4_66706_48513365	NC_021163.1	Ca_kabuli_chr04	48513365	AA	GG	1946837147
SNP_P4_66707_48513375	NC_021163.1	Ca_kabuli_chr04	48513375	TT	GG	1946837149
SNP_P4_66708_48514465	NC_021163.1	Ca_kabuli_chr04	48514465	CC	AA	1946837151
SNP_P4_66709_48515157	NC_021163.1	Ca_kabuli_chr04	48515157	GG	AA	1946837153
SNP_P4_66710_48515774	NC_021163.1	Ca_kabuli_chr04	48515774	CC	TT	1946837155
SNP_P4_66711_48516139	NC_021163.1	Ca_kabuli_chr04	48516139	AA	TT	1946837157
SNP_P4_66712_48516540	NC_021163.1	Ca_kabuli_chr04	48516540	TT	CC	1946837159
SNP_P4_66713_48516573	NC_021163.1	Ca_kabuli_chr04	48516573	CC	AA	1946837161
SNP_P4_66714_48517684	NC_021163.1	Ca_kabuli_chr04	48517684	GG	AA	1946837163
SNP_P4_66717_48520857	NC_021163.1	Ca_kabuli_chr04	48520857	CC	AA	1946837165
SNP_P4_66718_48521692	NC_021163.1	Ca_kabuli_chr04	48521692	TT	CC	1946837168
SNP_P4_66719_48521707	NC_021163.1	Ca_kabuli_chr04	48521707	AA	TT	1946837170
SNP_P4_66720_48521743	NC_021163.1	Ca_kabuli_chr04	48521743	AA	GG	1946837172
SNP_P4_66722_48530418	NC_021163.1	Ca_kabuli_chr04	48530418	AA	GG	1946837174
SNP_P4_66723_48541105	NC_021163.1	Ca_kabuli_chr04	48541105	GG	TT	1946837176
SNP_P4_66725_48574481	NC_021163.1	Ca_kabuli_chr04	48574481	GG	AA	1946837178
SNP_P4_66726_48574530	NC_021163.1	Ca_kabuli_chr04	48574530	CC	TT	1946837180
SNP_P4_66727_48574926	NC_021163.1	Ca_kabuli_chr04	48574926	AA	TT	1946837182
SNP_P4_66728_48575242	NC_021163.1	Ca_kabuli_chr04	48575242	GG	TT	1946837184
SNP_P4_66729_48575833	NC_021163.1	Ca_kabuli_chr04	48575833	TT	AA	1946837187
SNP_P4_66733_48580382	NC_021163.1	Ca_kabuli_chr04	48580382	GG	AA	1946837189
SNP_P4_66734_48592399	NC_021163.1	Ca_kabuli_chr04	48592399	GG	AA	1946837191
SNP_P4_66735_48620682	NC_021163.1	Ca_kabuli_chr04	48620682	AA	GG	1946837193

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_66738_48630807	NC_021163.1	Ca_kabuli_chr04	48630807	CC	TT	1946837199
SNP_P4_66739_48645314	NC_021163.1	Ca_kabuli_chr04	48645314	AA	GG	1946837201
SNP_P4_66740_48646239	NC_021163.1	Ca_kabuli_chr04	48646239	TT	CC	1946837203
SNP_P4_66741_48650739	NC_021163.1	Ca_kabuli_chr04	48650739	CC	TT	1946837205
SNP_P4_66742_48657505	NC_021163.1	Ca_kabuli_chr04	48657505	GG	TT	1946837207
SNP_P4_66743_48659908	NC_021163.1	Ca_kabuli_chr04	48659908	TT	CC	1946837209
SNP_P4_66744_48661907	NC_021163.1	Ca_kabuli_chr04	48661907	TT	CC	1946837211
SNP_P4_66745_48661942	NC_021163.1	Ca_kabuli_chr04	48661942	CC	TT	1946837213
SNP_P4_66746_48662062	NC_021163.1	Ca_kabuli_chr04	48662062	GG	CC	1946837215
SNP_P4_66747_48662147	NC_021163.1	Ca_kabuli_chr04	48662147	GG	AA	1946837217
SNP_P4_66748_48662178	NC_021163.1	Ca_kabuli_chr04	48662178	AA	TT	1946837219
SNP_P4_66749_48662367	NC_021163.1	Ca_kabuli_chr04	48662367	AA	GG	1946837222
SNP_P4_66750_48662828	NC_021163.1	Ca_kabuli_chr04	48662828	GG	AA	1946837224
SNP_P4_66753_48663212	NC_021163.1	Ca_kabuli_chr04	48663212	CC	AA	1946837226
SNP_P4_66754_48663219	NC_021163.1	Ca_kabuli_chr04	48663219	AA	CC	1946837228
SNP_P4_66756_48663817	NC_021163.1	Ca_kabuli_chr04	48663817	CC	GG	1946837230
SNP_P4_66757_48663858	NC_021163.1	Ca_kabuli_chr04	48663858	AA	TT	1946837232
SNP_P4_66758_48664003	NC_021163.1	Ca_kabuli_chr04	48664003	TT	CC	1946837234
SNP_P4_66759_48664049	NC_021163.1	Ca_kabuli_chr04	48664049	CC	TT	1946837236
SNP_P4_66760_48664186	NC_021163.1	Ca_kabuli_chr04	48664186	GG	AA	1946837238
SNP_P4_66761_48664251	NC_021163.1	Ca_kabuli_chr04	48664251	TT	AA	1946837240
SNP_P4_66762_48664252	NC_021163.1	Ca_kabuli_chr04	48664252	TT	AA	1946837242
SNP_P4_66763_48664281	NC_021163.1	Ca_kabuli_chr04	48664281	AA	TT	1946837244
SNP_P4_66764_48664600	NC_021163.1	Ca_kabuli_chr04	48664600	GG	CC	1946837246
SNP_P4_66765_48665225	NC_021163.1	Ca_kabuli_chr04	48665225	TT	CC	1946837248
SNP_P4_66766_48665517	NC_021163.1	Ca_kabuli_chr04	48665517	AA	GG	1946837250
SNP_P4_66768_48666819	NC_021163.1	Ca_kabuli_chr04	48666819	TT	CC	1946837252
SNP_P4_66769_48667177	NC_021163.1	Ca_kabuli_chr04	48667177	TT	CC	1946837254
SNP_P4_66770_48667231	NC_021163.1	Ca_kabuli_chr04	48667231	GG	AA	1946837256
SNP_P4_66771_48667659	NC_021163.1	Ca_kabuli_chr04	48667659	GG	AA	1946837258
SNP_P4_66772_48668504	NC_021163.1	Ca_kabuli_chr04	48668504	GG	AA	1946837260
SNP_P4_66773_48670066	NC_021163.1	Ca_kabuli_chr04	48670066	TT	GG	1946837262
SNP_P4_66774_48670089	NC_021163.1	Ca_kabuli_chr04	48670089	CC	TT	1946837264
SNP_P4_66776_48670367	NC_021163.1	Ca_kabuli_chr04	48670367	CC	TT	1946837266
SNP_P4_66777_48670394	NC_021163.1	Ca_kabuli_chr04	48670394	CC	TT	1946837268
SNP_P4_66779_48670628	NC_021163.1	Ca_kabuli_chr04	48670628	CC	AA	1946837270
SNP_P4_66780_48670878	NC_021163.1	Ca_kabuli_chr04	48670878	CC	TT	1946837272
SNP_P4_66781_48670958	NC_021163.1	Ca_kabuli_chr04	48670958	TT	GG	1946837274
SNP_P4_66783_48671136	NC_021163.1	Ca_kabuli_chr04	48671136	TT	CC	1946837276
SNP_P4_66784_48671161	NC_021163.1	Ca_kabuli_chr04	48671161	AA	GG	1946837278

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_66786_48671311	NC_021163.1	Ca_kabuli_chr04	48671311	TT	AA	1946837282
SNP_P4_66787_48671625	NC_021163.1	Ca_kabuli_chr04	48671625	GG	TT	1946837284
SNP_P4_66788_48671863	NC_021163.1	Ca_kabuli_chr04	48671863	TT	CC	1946837286
SNP_P4_66791_48673777	NC_021163.1	Ca_kabuli_chr04	48673777	CC	TT	1946837288
SNP_P4_66792_48673781	NC_021163.1	Ca_kabuli_chr04	48673781	TT	AA	1946837290
SNP_P4_66794_48674176	NC_021163.1	Ca_kabuli_chr04	48674176	CC	TT	1946837292
SNP_P4_66795_48679708	NC_021163.1	Ca_kabuli_chr04	48679708	AA	GG	1946837294
SNP_P4_66796_48680998	NC_021163.1	Ca_kabuli_chr04	48680998	TT	CC	1946837296
SNP_P4_66797_48681151	NC_021163.1	Ca_kabuli_chr04	48681151	TT	CC	1946837298
SNP_P4_66798_48681589	NC_021163.1	Ca_kabuli_chr04	48681589	TT	AA	1946837300
SNP_P4_66799_48681625	NC_021163.1	Ca_kabuli_chr04	48681625	AA	GG	1946837302
SNP_P4_66800_48683689	NC_021163.1	Ca_kabuli_chr04	48683689	GG	AA	1946837304
SNP_P4_66801_48684321	NC_021163.1	Ca_kabuli_chr04	48684321	AA	CC	1946837306
SNP_P4_66802_48684520	NC_021163.1	Ca_kabuli_chr04	48684520	TT	AA	1946837308
SNP_P4_66803_48684567	NC_021163.1	Ca_kabuli_chr04	48684567	GG	AA	1946837310
SNP_P4_66804_48685801	NC_021163.1	Ca_kabuli_chr04	48685801	CC	TT	1946837312
SNP_P4_66805_48685839	NC_021163.1	Ca_kabuli_chr04	48685839	CC	AA	1946837314
SNP_P4_66806_48685996	NC_021163.1	Ca_kabuli_chr04	48685996	TT	CC	1946837316
SNP_P4_66807_48686011	NC_021163.1	Ca_kabuli_chr04	48686011	TT	CC	1946837318
SNP_P4_66808_48686911	NC_021163.1	Ca_kabuli_chr04	48686911	GG	TT	1946837320
SNP_P4_66809_48686915	NC_021163.1	Ca_kabuli_chr04	48686915	TT	GG	1946837322
SNP_P4_66810_48687061	NC_021163.1	Ca_kabuli_chr04	48687061	CC	TT	1946837324
SNP_P4_66811_48687080	NC_021163.1	Ca_kabuli_chr04	48687080	CC	AA	1946837326
SNP_P4_66812_48687096	NC_021163.1	Ca_kabuli_chr04	48687096	AA	GG	1946837328
SNP_P4_66813_48687110	NC_021163.1	Ca_kabuli_chr04	48687110	AA	GG	1946837330
SNP_P4_66814_48687126	NC_021163.1	Ca_kabuli_chr04	48687126	CC	TT	1946837332
SNP_P4_66815_48687336	NC_021163.1	Ca_kabuli_chr04	48687336	GG	TT	1946837334
SNP_P4_66816_48687769	NC_021163.1	Ca_kabuli_chr04	48687769	AA	TT	1946837336
SNP_P4_66817_48688830	NC_021163.1	Ca_kabuli_chr04	48688830	AA	TT	1946837338
SNP_P4_66821_48691096	NC_021163.1	Ca_kabuli_chr04	48691096	CC	TT	1946837340
SNP_P4_66822_48691122	NC_021163.1	Ca_kabuli_chr04	48691122	TT	AA	1946837342
SNP_P4_66823_48691146	NC_021163.1	Ca_kabuli_chr04	48691146	CC	GG	1946837344
SNP_P4_66824_48691173	NC_021163.1	Ca_kabuli_chr04	48691173	GG	TT	1946837347
SNP_P4_66825_48691193	NC_021163.1	Ca_kabuli_chr04	48691193	TT	AA	1946837349
SNP_P4_66826_48691207	NC_021163.1	Ca_kabuli_chr04	48691207	TT	GG	1946837351
SNP_P4_66827_48691466	NC_021163.1	Ca_kabuli_chr04	48691466	AA	GG	1946837353
SNP_P4_66828_48691467	NC_021163.1	Ca_kabuli_chr04	48691467	AA	GG	1946837355
SNP_P4_66829_48691889	NC_021163.1	Ca_kabuli_chr04	48691889	GG	TT	1946837357
SNP_P4_66830_48692146	NC_021163.1	Ca_kabuli_chr04	48692146	AA	GG	1946837359
SNP_P4_66831_48692157	NC_021163.1	Ca_kabuli_chr04	48692157	AA	CC	1946837361
SNP_P4_66832_48692164	NC_021163.1	Ca_kabuli_chr04	48692164	TT	CC	1946837363

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_66834_48692903	NC_021163.1	Ca_kabuli_chr04	48692903	CC	TT	1946837367
SNP_P4_66835_48693101	NC_021163.1	Ca_kabuli_chr04	48693101	AA	GG	1946837369
SNP_P4_66836_48693125	NC_021163.1	Ca_kabuli_chr04	48693125	AA	GG	1946837371
SNP_P4_66837_48693202	NC_021163.1	Ca_kabuli_chr04	48693202	GG	AA	1946837373
SNP_P4_66838_48693235	NC_021163.1	Ca_kabuli_chr04	48693235	CC	TT	1946837375
SNP_P4_66839_48693269	NC_021163.1	Ca_kabuli_chr04	48693269	CC	TT	1946837377
SNP_P4_66840_48693280	NC_021163.1	Ca_kabuli_chr04	48693280	CC	TT	1946837380
SNP_P4_66841_48693303	NC_021163.1	Ca_kabuli_chr04	48693303	AA	GG	1946837382
SNP_P4_66842_48693306	NC_021163.1	Ca_kabuli_chr04	48693306	AA	GG	1946837384
SNP_P4_66843_48693320	NC_021163.1	Ca_kabuli_chr04	48693320	AA	CC	1946837386
SNP_P4_66844_48693601	NC_021163.1	Ca_kabuli_chr04	48693601	CC	AA	1946837387
SNP_P4_66845_48693668	NC_021163.1	Ca_kabuli_chr04	48693668	TT	GG	1946837389
SNP_P4_66846_48693671	NC_021163.1	Ca_kabuli_chr04	48693671	GG	TT	1946837391
SNP_P4_66848_48695362	NC_021163.1	Ca_kabuli_chr04	48695362	AA	GG	1946837393
SNP_P4_66849_48695780	NC_021163.1	Ca_kabuli_chr04	48695780	GG	AA	1946837395
SNP_P4_66850_48697672	NC_021163.1	Ca_kabuli_chr04	48697672	TT	CC	1946837397
SNP_P4_66851_48697689	NC_021163.1	Ca_kabuli_chr04	48697689	TT	GG	1946837399
SNP_P4_66852_48697710	NC_021163.1	Ca_kabuli_chr04	48697710	AA	GG	1946837401
SNP_P4_66853_48697745	NC_021163.1	Ca_kabuli_chr04	48697745	AA	GG	1946837402
SNP_P4_66854_48697751	NC_021163.1	Ca_kabuli_chr04	48697751	TT	CC	1946837404
SNP_P4_66855_48697805	NC_021163.1	Ca_kabuli_chr04	48697805	AA	CC	1946837406
SNP_P4_66856_48697811	NC_021163.1	Ca_kabuli_chr04	48697811	AA	GG	1946837408
SNP_P4_66857_48697970	NC_021163.1	Ca_kabuli_chr04	48697970	TT	CC	1946837410
SNP_P4_66858_48698005	NC_021163.1	Ca_kabuli_chr04	48698005	AA	GG	1946837412
SNP_P4_66859_48698006	NC_021163.1	Ca_kabuli_chr04	48698006	AA	GG	1946837414
SNP_P4_66860_48706437	NC_021163.1	Ca_kabuli_chr04	48706437	GG	AA	1946837416
SNP_P4_66862_48708364	NC_021163.1	Ca_kabuli_chr04	48708364	GG	AA	1946837418
SNP_P4_66864_48711031	NC_021163.1	Ca_kabuli_chr04	48711031	GG	TT	1946837419
SNP_P4_66866_48711496	NC_021163.1	Ca_kabuli_chr04	48711496	GG	AA	1946837421
SNP_P4_66867_48711790	NC_021163.1	Ca_kabuli_chr04	48711790	TT	CC	1946837423
SNP_P4_66869_48713023	NC_021163.1	Ca_kabuli_chr04	48713023	AA	GG	1946837425
SNP_P4_66870_48713101	NC_021163.1	Ca_kabuli_chr04	48713101	TT	GG	1946837427
SNP_P4_66871_48714668	NC_021163.1	Ca_kabuli_chr04	48714668	GG	AA	1946837429
SNP_P4_66872_48714724	NC_021163.1	Ca_kabuli_chr04	48714724	CC	TT	1946837431
SNP_P4_66873_48715843	NC_021163.1	Ca_kabuli_chr04	48715843	TT	GG	1946837433
SNP_P4_66874_48715917	NC_021163.1	Ca_kabuli_chr04	48715917	AA	GG	1946837435
SNP_P4_66876_48717120	NC_021163.1	Ca_kabuli_chr04	48717120	CC	TT	1946837437
SNP_P4_66877_48718314	NC_021163.1	Ca_kabuli_chr04	48718314	GG	CC	1946837440
SNP_P4_66879_48718941	NC_021163.1	Ca_kabuli_chr04	48718941	TT	AA	1946837442
SNP_P4_66880_48719182	NC_021163.1	Ca_kabuli_chr04	48719182	TT	AA	1946837444
SNP_P4_66881_48719184	NC_021163.1	Ca_kabuli_chr04	48719184	GG	AA	1946837446

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_66883_48719216	NC_021163.1	Ca_kabuli_chr04	48719216	GG	AA	1946837450
SNP_P4_66884_48719237	NC_021163.1	Ca_kabuli_chr04	48719237	GG	CC	1946837452
SNP_P4_66885_48719238	NC_021163.1	Ca_kabuli_chr04	48719238	CC	TT	1946837454
SNP_P4_66886_48720665	NC_021163.1	Ca_kabuli_chr04	48720665	GG	CC	1946837456
SNP_P4_66888_48721968	NC_021163.1	Ca_kabuli_chr04	48721968	AA	CC	1946837458
SNP_P4_66889_48721989	NC_021163.1	Ca_kabuli_chr04	48721989	GG	CC	1946837460
SNP_P4_66890_48721993	NC_021163.1	Ca_kabuli_chr04	48721993	AA	TT	1946837462
SNP_P4_66891_48722294	NC_021163.1	Ca_kabuli_chr04	48722294	AA	TT	1946837464
SNP_P4_66892_48722326	NC_021163.1	Ca_kabuli_chr04	48722326	TT	CC	1946837466
SNP_P4_66893_48722347	NC_021163.1	Ca_kabuli_chr04	48722347	AA	CC	1946837468
SNP_P4_66894_48722354	NC_021163.1	Ca_kabuli_chr04	48722354	AA	GG	1946837470
SNP_P4_66895_48722355	NC_021163.1	Ca_kabuli_chr04	48722355	AA	GG	1946837472
SNP_P4_66896_48723111	NC_021163.1	Ca_kabuli_chr04	48723111	AA	CC	1946837474
SNP_P4_66898_48723421	NC_021163.1	Ca_kabuli_chr04	48723421	CC	TT	1946837476
SNP_P4_66899_48723454	NC_021163.1	Ca_kabuli_chr04	48723454	TT	CC	1946837478
SNP_P4_66900_48723466	NC_021163.1	Ca_kabuli_chr04	48723466	TT	CC	1946837480
SNP_P4_66901_48723468	NC_021163.1	Ca_kabuli_chr04	48723468	GG	AA	1946837482
SNP_P4_66902_48723473	NC_021163.1	Ca_kabuli_chr04	48723473	AA	TT	1946837484
SNP_P4_66904_48723727	NC_021163.1	Ca_kabuli_chr04	48723727	AA	TT	1946837486
SNP_P4_66905_48723745	NC_021163.1	Ca_kabuli_chr04	48723745	GG	AA	1946837487
SNP_P4_66906_48725331	NC_021163.1	Ca_kabuli_chr04	48725331	CC	GG	1946837489
SNP_P4_66907_48725382	NC_021163.1	Ca_kabuli_chr04	48725382	CC	TT	1946837491
SNP_P4_66908_48725407	NC_021163.1	Ca_kabuli_chr04	48725407	TT	AA	1946837494
SNP_P4_66909_48725723	NC_021163.1	Ca_kabuli_chr04	48725723	TT	GG	1946837496
SNP_P4_66910_48725725	NC_021163.1	Ca_kabuli_chr04	48725725	CC	AA	1946837498
SNP_P4_66911_48725731	NC_021163.1	Ca_kabuli_chr04	48725731	GG	TT	1946837500
SNP_P4_66912_48725743	NC_021163.1	Ca_kabuli_chr04	48725743	AA	GG	1946837502
SNP_P4_66913_48726038	NC_021163.1	Ca_kabuli_chr04	48726038	CC	TT	1946837504
SNP_P4_66914_48726098	NC_021163.1	Ca_kabuli_chr04	48726098	AA	GG	1946837506
SNP_P4_66915_48726168	NC_021163.1	Ca_kabuli_chr04	48726168	AA	GG	1946837508
SNP_P4_66917_48726278	NC_021163.1	Ca_kabuli_chr04	48726278	CC	TT	1946837510
SNP_P4_66918_48726403	NC_021163.1	Ca_kabuli_chr04	48726403	AA	GG	1946837512
SNP_P4_66919_48726410	NC_021163.1	Ca_kabuli_chr04	48726410	CC	TT	1946837514
SNP_P4_66920_48726413	NC_021163.1	Ca_kabuli_chr04	48726413	CC	TT	1946837516
SNP_P4_66921_48726414	NC_021163.1	Ca_kabuli_chr04	48726414	AA	CC	1946837518
SNP_P4_66922_48726444	NC_021163.1	Ca_kabuli_chr04	48726444	CC	TT	1946837520
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SNP_P4_66924_48730272	NC_021163.1	Ca_kabuli_chr04	48730272	CC	AA	1946837524
SNP_P4_66925_48730280	NC_021163.1	Ca_kabuli_chr04	48730280	GG	TT	1946837526
SNP_P4_66926_48733506	NC_021163.1	Ca_kabuli_chr04	48733506	AA	GG	1946837528
SNP_P4_66927_48739519	NC_021163.1	Ca_kabuli_chr04	48739519	AA	TT	1946837530

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_66929_48739561	NC_021163.1	Ca_kabuli_chr04	48739561	CC	TT	1946837533
SNP_P4_66930_48739597	NC_021163.1	Ca_kabuli_chr04	48739597	AA	GG	1946837534
SNP_P4_66931_48739619	NC_021163.1	Ca_kabuli_chr04	48739619	GG	AA	1946837535
SNP_P4_66932_48739684	NC_021163.1	Ca_kabuli_chr04	48739684	CC	GG	1946837536
SNP_P4_66934_48739717	NC_021163.1	Ca_kabuli_chr04	48739717	GG	TT	1946837537
SNP_P4_66935_48739726	NC_021163.1	Ca_kabuli_chr04	48739726	AA	GG	1946837539
SNP_P4_66936_48739738	NC_021163.1	Ca_kabuli_chr04	48739738	GG	CC	1946837541
SNP_P4_66937_48739751	NC_021163.1	Ca_kabuli_chr04	48739751	AA	TT	1946837543
SNP_P4_66938_48740225	NC_021163.1	Ca_kabuli_chr04	48740225	AA	TT	1946837545
SNP_P4_66939_48740457	NC_021163.1	Ca_kabuli_chr04	48740457	CC	TT	1946837547
SNP_P4_66940_48740475	NC_021163.1	Ca_kabuli_chr04	48740475	AA	GG	1946837549
SNP_P4_66941_48740476	NC_021163.1	Ca_kabuli_chr04	48740476	GG	AA	1946837551
SNP_P4_66942_48740498	NC_021163.1	Ca_kabuli_chr04	48740498	TT	CC	1946837553
SNP_P4_66943_48740557	NC_021163.1	Ca_kabuli_chr04	48740557	AA	GG	1946837555
SNP_P4_66944_48740558	NC_021163.1	Ca_kabuli_chr04	48740558	GG	CC	1946837557
SNP_P4_66945_48740572	NC_021163.1	Ca_kabuli_chr04	48740572	AA	GG	1946837559
SNP_P4_66946_48740578	NC_021163.1	Ca_kabuli_chr04	48740578	AA	GG	1946837561
SNP_P4_66947_48740604	NC_021163.1	Ca_kabuli_chr04	48740604	TT	AA	1946837563
SNP_P4_66948_48740620	NC_021163.1	Ca_kabuli_chr04	48740620	CC	TT	1946837565
SNP_P4_66951_48741900	NC_021163.1	Ca_kabuli_chr04	48741900	AA	CC	1946837567
SNP_P4_66952_48742083	NC_021163.1	Ca_kabuli_chr04	48742083	CC	TT	1946837569
SNP_P4_66953_48742111	NC_021163.1	Ca_kabuli_chr04	48742111	AA	GG	1946837571
SNP_P4_66954_48742247	NC_021163.1	Ca_kabuli_chr04	48742247	GG	AA	1946837573
SNP_P4_66955_48742267	NC_021163.1	Ca_kabuli_chr04	48742267	AA	GG	1946837575
SNP_P4_66956_48742291	NC_021163.1	Ca_kabuli_chr04	48742291	CC	AA	1946837577
SNP_P4_66957_48742320	NC_021163.1	Ca_kabuli_chr04	48742320	CC	TT	1946837579
SNP_P4_66958_48742327	NC_021163.1	Ca_kabuli_chr04	48742327	GG	AA	1946837581
SNP_P4_66959_48742386	NC_021163.1	Ca_kabuli_chr04	48742386	TT	AA	1946837583
SNP_P4_66960_48742396	NC_021163.1	Ca_kabuli_chr04	48742396	GG	AA	1946837585
SNP_P4_66961_48742455	NC_021163.1	Ca_kabuli_chr04	48742455	TT	CC	1946837586
SNP_P4_66962_48742465	NC_021163.1	Ca_kabuli_chr04	48742465	GG	CC	1946837588
SNP_P4_66963_48742500	NC_021163.1	Ca_kabuli_chr04	48742500	GG	CC	1946837590
SNP_P4_66964_48742738	NC_021163.1	Ca_kabuli_chr04	48742738	AA	CC	1946837592
SNP_P4_66965_48752800	NC_021163.1	Ca_kabuli_chr04	48752800	GG	AA	1946837594
SNP_P4_66966_48752801	NC_021163.1	Ca_kabuli_chr04	48752801	TT	CC	1946837596
SNP_P4_66967_48752995	NC_021163.1	Ca_kabuli_chr04	48752995	TT	GG	1946837598
SNP_P4_66968_48755108	NC_021163.1	Ca_kabuli_chr04	48755108	AA	GG	1946837600
SNP_P4_66969_48755112	NC_021163.1	Ca_kabuli_chr04	48755112	CC	TT	1946837602
SNP_P4_66970_48755113	NC_021163.1	Ca_kabuli_chr04	48755113	CC	TT	1946837604
SNP_P4_66971_48755155	NC_021163.1	Ca_kabuli_chr04	48755155	CC	TT	1946837606
SNP_P4_66972_48756250	NC_021163.1	Ca_kabuli_chr04	48756250	TT	CC	1946837608

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_66974_48758501	NC_021163.1	Ca_kabuli_chr04	48758501	GG	AA	1946837611
SNP_P4_66975_48758516	NC_021163.1	Ca_kabuli_chr04	48758516	GG	TT	1946837613
SNP_P4_66977_48759050	NC_021163.1	Ca_kabuli_chr04	48759050	TT	AA	1946837615
SNP_P4_66978_48759103	NC_021163.1	Ca_kabuli_chr04	48759103	AA	GG	1946837617
SNP_P4_66980_48760230	NC_021163.1	Ca_kabuli_chr04	48760230	CC	AA	1946837619
SNP_P4_66981_48760624	NC_021163.1	Ca_kabuli_chr04	48760624	CC	AA	1946837621
SNP_P4_66982_48760880	NC_021163.1	Ca_kabuli_chr04	48760880	CC	AA	1946837623
SNP_P4_66983_48760900	NC_021163.1	Ca_kabuli_chr04	48760900	GG	AA	1946837625
SNP_P4_66984_48760983	NC_021163.1	Ca_kabuli_chr04	48760983	AA	GG	1946837627
SNP_P4_66985_48766853	NC_021163.1	Ca_kabuli_chr04	48766853	GG	TT	1946837629
SNP_P4_66986_48766872	NC_021163.1	Ca_kabuli_chr04	48766872	CC	TT	1946837630
SNP_P4_66987_48768360	NC_021163.1	Ca_kabuli_chr04	48768360	AA	GG	1946837632
SNP_P4_66988_48768367	NC_021163.1	Ca_kabuli_chr04	48768367	CC	TT	1946837634
SNP_P4_66989_48768444	NC_021163.1	Ca_kabuli_chr04	48768444	GG	AA	1946837636
SNP_P4_66990_48768524	NC_021163.1	Ca_kabuli_chr04	48768524	CC	TT	1946837638
SNP_P4_66991_48768536	NC_021163.1	Ca_kabuli_chr04	48768536	CC	AA	1946837640
SNP_P4_66992_48768538	NC_021163.1	Ca_kabuli_chr04	48768538	CC	TT	1946837642
SNP_P4_66993_48768539	NC_021163.1	Ca_kabuli_chr04	48768539	TT	CC	1946837644
SNP_P4_66994_48768635	NC_021163.1	Ca_kabuli_chr04	48768635	AA	GG	1946837646
SNP_P4_66995_48768655	NC_021163.1	Ca_kabuli_chr04	48768655	GG	TT	1946837648
SNP_P4_66996_48768758	NC_021163.1	Ca_kabuli_chr04	48768758	GG	AA	1946837650
SNP_P4_66998_48770243	NC_021163.1	Ca_kabuli_chr04	48770243	GG	CC	1946837651
SNP_P4_66999_48770271	NC_021163.1	Ca_kabuli_chr04	48770271	AA	GG	1946837653
SNP_P4_67000_48770277	NC_021163.1	Ca_kabuli_chr04	48770277	GG	CC	1946837655
SNP_P4_67002_48772352	NC_021163.1	Ca_kabuli_chr04	48772352	CC	GG	1946837657
SNP_P4_67003_48772357	NC_021163.1	Ca_kabuli_chr04	48772357	AA	GG	1946837659
SNP_P4_67004_48772359	NC_021163.1	Ca_kabuli_chr04	48772359	TT	AA	1946837661
SNP_P4_67005_48772362	NC_021163.1	Ca_kabuli_chr04	48772362	AA	TT	1946837663
SNP_P4_67006_48772398	NC_021163.1	Ca_kabuli_chr04	48772398	AA	GG	1946837665
SNP_P4_67007_48774280	NC_021163.1	Ca_kabuli_chr04	48774280	TT	CC	1946837667
SNP_P4_67008_48774299	NC_021163.1	Ca_kabuli_chr04	48774299	AA	GG	1946837669
SNP_P4_67009_48774318	NC_021163.1	Ca_kabuli_chr04	48774318	AA	GG	1946837671
SNP_P4_67010_48774320	NC_021163.1	Ca_kabuli_chr04	48774320	AA	GG	1946837673
SNP_P4_67011_48774435	NC_021163.1	Ca_kabuli_chr04	48774435	CC	TT	1946837675
SNP_P4_67012_48774457	NC_021163.1	Ca_kabuli_chr04	48774457	GG	AA	1946837677
SNP_P4_67013_48774459	NC_021163.1	Ca_kabuli_chr04	48774459	GG	AA	1946837679
SNP_P4_67014_48774468	NC_021163.1	Ca_kabuli_chr04	48774468	TT	CC	1946837680
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SNP_P4_67016_48774665	NC_021163.1	Ca_kabuli_chr04	48774665	AA	GG	1946837684
SNP_P4_67017_48774666	NC_021163.1	Ca_kabuli_chr04	48774666	GG	AA	1946837686
SNP_P4_67018_48781263	NC_021163.1	Ca_kabuli_chr04	48781263	AA	GG	1946837688

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_67020_48782889	NC_021163.1	Ca_kabuli_chr04	48782889	TT	CC	1946837692
SNP_P4_67021_48782891	NC_021163.1	Ca_kabuli_chr04	48782891	TT	CC	1946837694
SNP_P4_67022_48784053	NC_021163.1	Ca_kabuli_chr04	48784053	TT	CC	1946837696
SNP_P4_67023_48784074	NC_021163.1	Ca_kabuli_chr04	48784074	TT	GG	1946837698
SNP_P4_67024_48784112	NC_021163.1	Ca_kabuli_chr04	48784112	GG	AA	1946837700
SNP_P4_67025_48784113	NC_021163.1	Ca_kabuli_chr04	48784113	AA	TT	1946837702
SNP_P4_67026_48784151	NC_021163.1	Ca_kabuli_chr04	48784151	TT	GG	1946837703
SNP_P4_67027_48784481	NC_021163.1	Ca_kabuli_chr04	48784481	CC	GG	1946837705
SNP_P4_67028_48784504	NC_021163.1	Ca_kabuli_chr04	48784504	AA	GG	1946837707
SNP_P4_67029_48784505	NC_021163.1	Ca_kabuli_chr04	48784505	TT	AA	1946837709
SNP_P4_67030_48786258	NC_021163.1	Ca_kabuli_chr04	48786258	TT	GG	1946837711
SNP_P4_67031_48786406	NC_021163.1	Ca_kabuli_chr04	48786406	AA	TT	1946837713
SNP_P4_67032_48786553	NC_021163.1	Ca_kabuli_chr04	48786553	AA	GG	1946837715
SNP_P4_67033_48786631	NC_021163.1	Ca_kabuli_chr04	48786631	TT	CC	1946837717
SNP_P4_67034_48786633	NC_021163.1	Ca_kabuli_chr04	48786633	GG	TT	1946837719
SNP_P4_67036_48786655	NC_021163.1	Ca_kabuli_chr04	48786655	CC	TT	1946837721
SNP_P4_67037_48786689	NC_021163.1	Ca_kabuli_chr04	48786689	AA	TT	1946837723
SNP_P4_67038_48786749	NC_021163.1	Ca_kabuli_chr04	48786749	TT	CC	1946837725
SNP_P4_67039_48786781	NC_021163.1	Ca_kabuli_chr04	48786781	GG	TT	1946837726
SNP_P4_67040_48786835	NC_021163.1	Ca_kabuli_chr04	48786835	CC	TT	1946837728
SNP_P4_67041_48786884	NC_021163.1	Ca_kabuli_chr04	48786884	AA	TT	1946837730
SNP_P4_67042_48786886	NC_021163.1	Ca_kabuli_chr04	48786886	TT	CC	1946837732
SNP_P4_67043_48787511	NC_021163.1	Ca_kabuli_chr04	48787511	CC	GG	1946837734
SNP_P4_67044_48792049	NC_021163.1	Ca_kabuli_chr04	48792049	AA	CC	1946837736
SNP_P4_67047_48793630	NC_021163.1	Ca_kabuli_chr04	48793630	CC	TT	1946837738
SNP_P4_67048_48793850	NC_021163.1	Ca_kabuli_chr04	48793850	CC	AA	1946837740
SNP_P4_67050_48794144	NC_021163.1	Ca_kabuli_chr04	48794144	TT	GG	1946837742
SNP_P4_67051_48794875	NC_021163.1	Ca_kabuli_chr04	48794875	AA	GG	1946837744
SNP_P4_67052_48795158	NC_021163.1	Ca_kabuli_chr04	48795158	GG	TT	1946837746
SNP_P4_67053_48795812	NC_021163.1	Ca_kabuli_chr04	48795812	CC	GG	1946837748
SNP_P4_67054_48795847	NC_021163.1	Ca_kabuli_chr04	48795847	CC	GG	1946837750
SNP_P4_67055_48795850	NC_021163.1	Ca_kabuli_chr04	48795850	AA	CC	1946837752
SNP_P4_67056_48796167	NC_021163.1	Ca_kabuli_chr04	48796167	TT	CC	1946837754
SNP_P4_67057_48797121	NC_021163.1	Ca_kabuli_chr04	48797121	AA	GG	1946837756
SNP_P4_67058_48797137	NC_021163.1	Ca_kabuli_chr04	48797137	TT	AA	1946837758
SNP_P4_67059_48798125	NC_021163.1	Ca_kabuli_chr04	48798125	TT	AA	1946837760
SNP_P4_67060_48798668	NC_021163.1	Ca_kabuli_chr04	48798668	GG	AA	1946837762
SNP_P4_67061_48799708	NC_021163.1	Ca_kabuli_chr04	48799708	AA	CC	1946837764
SNP_P4_67062_48800653	NC_021163.1	Ca_kabuli_chr04	48800653	CC	AA	1946837766
SNP_P4_67063_48801618	NC_021163.1	Ca_kabuli_chr04	48801618	CC	TT	1946837768
SNP_P4_67064_48801649	NC_021163.1	Ca_kabuli_chr04	48801649	GG	TT	1946837770

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_67066_48802102	NC_021163.1	Ca_kabuli_chr04	48802102	AA	CC	1946837774
SNP_P4_67067_48802345	NC_021163.1	Ca_kabuli_chr04	48802345	TT	CC	1946837776
SNP_P4_67068_48809005	NC_021163.1	Ca_kabuli_chr04	48809005	TT	AA	1946837778
SNP_P4_67069_48809340	NC_021163.1	Ca_kabuli_chr04	48809340	CC	TT	1946837780
SNP_P4_67070_48810139	NC_021163.1	Ca_kabuli_chr04	48810139	AA	GG	1946837782
SNP_P4_67071_48810707	NC_021163.1	Ca_kabuli_chr04	48810707	AA	CC	1946837784
SNP_P4_67072_48811114	NC_021163.1	Ca_kabuli_chr04	48811114	GG	TT	1946837786
SNP_P4_67073_48811223	NC_021163.1	Ca_kabuli_chr04	48811223	AA	GG	1946837788
SNP_P4_67074_48811224	NC_021163.1	Ca_kabuli_chr04	48811224	TT	CC	1946837790
SNP_P4_67075_48811252	NC_021163.1	Ca_kabuli_chr04	48811252	GG	AA	1946837792
SNP_P4_67076_48812575	NC_021163.1	Ca_kabuli_chr04	48812575	CC	TT	1946837794
SNP_P4_67077_48812765	NC_021163.1	Ca_kabuli_chr04	48812765	CC	TT	1946837796
SNP_P4_67078_48812766	NC_021163.1	Ca_kabuli_chr04	48812766	AA	GG	1946837798
SNP_P4_67079_48813596	NC_021163.1	Ca_kabuli_chr04	48813596	TT	CC	1946837800
SNP_P4_67080_48813762	NC_021163.1	Ca_kabuli_chr04	48813762	GG	CC	1946837802
SNP_P4_67081_48813901	NC_021163.1	Ca_kabuli_chr04	48813901	TT	CC	1946837804
SNP_P4_67082_48814146	NC_021163.1	Ca_kabuli_chr04	48814146	CC	TT	1946837806
SNP_P4_67083_48814166	NC_021163.1	Ca_kabuli_chr04	48814166	TT	CC	1946837808
SNP_P4_67084_48815765	NC_021163.1	Ca_kabuli_chr04	48815765	CC	AA	1946837810
SNP_P4_67085_48816968	NC_021163.1	Ca_kabuli_chr04	48816968	AA	CC	1946837812
SNP_P4_67086_48817016	NC_021163.1	Ca_kabuli_chr04	48817016	CC	TT	1946837814
SNP_P4_67087_48817466	NC_021163.1	Ca_kabuli_chr04	48817466	AA	CC	1946837816
SNP_P4_67088_48818082	NC_021163.1	Ca_kabuli_chr04	48818082	GG	CC	1946837818
SNP_P4_67089_48818375	NC_021163.1	Ca_kabuli_chr04	48818375	TT	CC	1946837820
SNP_P4_67090_48818471	NC_021163.1	Ca_kabuli_chr04	48818471	GG	AA	1946837822
SNP_P4_67091_48818538	NC_021163.1	Ca_kabuli_chr04	48818538	TT	CC	1946837824
SNP_P4_67092_48818545	NC_021163.1	Ca_kabuli_chr04	48818545	CC	GG	1946837826
SNP_P4_67093_48818616	NC_021163.1	Ca_kabuli_chr04	48818616	AA	TT	1946837828
SNP_P4_67094_48818624	NC_021163.1	Ca_kabuli_chr04	48818624	AA	GG	1946837829
SNP_P4_67095_48818655	NC_021163.1	Ca_kabuli_chr04	48818655	AA	GG	1946837830
SNP_P4_67096_48818758	NC_021163.1	Ca_kabuli_chr04	48818758	GG	AA	1946837831
SNP_P4_67097_48819583	NC_021163.1	Ca_kabuli_chr04	48819583	GG	AA	1946837832
SNP_P4_67098_48820086	NC_021163.1	Ca_kabuli_chr04	48820086	TT	CC	1946837833
SNP_P4_67099_48820089	NC_021163.1	Ca_kabuli_chr04	48820089	AA	GG	1946837834
SNP_P4_67100_48820386	NC_021163.1	Ca_kabuli_chr04	48820386	AA	CC	1946837962
SNP_P4_67101_48821548	NC_021163.1	Ca_kabuli_chr04	48821548	GG	AA	1946837964
SNP_P4_67102_48822792	NC_021163.1	Ca_kabuli_chr04	48822792	CC	AA	1946837967
SNP_P4_67103_48824003	NC_021163.1	Ca_kabuli_chr04	48824003	AA	GG	1946837969
SNP_P4_67104_48824581	NC_021163.1	Ca_kabuli_chr04	48824581	GG	AA	1946837971
SNP_P4_67105_48824585	NC_021163.1	Ca_kabuli_chr04	48824585	TT	CC	1946837973
SNP_P4_67107_48824695	NC_021163.1	Ca_kabuli_chr04	48824695	GG	AA	1946837975

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_67110_48827158	NC_021163.1	Ca_kabuli_chr04	48827158	TT	CC	1946837979
SNP_P4_67111_48827160	NC_021163.1	Ca_kabuli_chr04	48827160	TT	CC	1946837981
SNP_P4_67112_48827824	NC_021163.1	Ca_kabuli_chr04	48827824	GG	AA	1946837983
SNP_P4_67113_48827888	NC_021163.1	Ca_kabuli_chr04	48827888	AA	TT	1946837985
SNP_P4_67115_48831919	NC_021163.1	Ca_kabuli_chr04	48831919	GG	TT	1946837988
SNP_P4_67116_48832104	NC_021163.1	Ca_kabuli_chr04	48832104	TT	AA	1946837990
SNP_P4_67119_48837398	NC_021163.1	Ca_kabuli_chr04	48837398	GG	TT	1946837992
SNP_P4_67120_48837426	NC_021163.1	Ca_kabuli_chr04	48837426	GG	AA	1946837994
SNP_P4_67122_48845353	NC_021163.1	Ca_kabuli_chr04	48845353	TT	AA	1946837996
SNP_P4_67123_48845859	NC_021163.1	Ca_kabuli_chr04	48845859	AA	GG	1946837998
SNP_P4_67124_48847261	NC_021163.1	Ca_kabuli_chr04	48847261	TT	AA	1946838000
SNP_P4_67128_48849226	NC_021163.1	Ca_kabuli_chr04	48849226	GG	AA	1946838002
SNP_P4_67129_48849704	NC_021163.1	Ca_kabuli_chr04	48849704	TT	CC	1946838004
SNP_P4_67130_48849718	NC_021163.1	Ca_kabuli_chr04	48849718	AA	GG	1946838007
SNP_P4_67131_48849767	NC_021163.1	Ca_kabuli_chr04	48849767	AA	GG	1946838009
SNP_P4_67132_48849959	NC_021163.1	Ca_kabuli_chr04	48849959	AA	CC	1946838011
SNP_P4_67133_48850001	NC_021163.1	Ca_kabuli_chr04	48850001	TT	AA	1946838013
SNP_P4_67134_48850011	NC_021163.1	Ca_kabuli_chr04	48850011	CC	TT	1946838015
SNP_P4_67135_48851329	NC_021163.1	Ca_kabuli_chr04	48851329	CC	TT	1946838017
SNP_P4_67137_48851626	NC_021163.1	Ca_kabuli_chr04	48851626	CC	AA	1946838019
SNP_P4_67138_48851627	NC_021163.1	Ca_kabuli_chr04	48851627	AA	GG	1946838021
SNP_P4_67139_48851880	NC_021163.1	Ca_kabuli_chr04	48851880	TT	GG	1946838023
SNP_P4_67140_48853416	NC_021163.1	Ca_kabuli_chr04	48853416	AA	TT	1946838025
SNP_P4_67141_48853652	NC_021163.1	Ca_kabuli_chr04	48853652	CC	TT	1946838027
SNP_P4_67142_48864515	NC_021163.1	Ca_kabuli_chr04	48864515	GG	TT	1946838029
SNP_P4_67143_48873354	NC_021163.1	Ca_kabuli_chr04	48873354	GG	TT	1946838031
SNP_P4_67144_48878101	NC_021163.1	Ca_kabuli_chr04	48878101	GG	TT	1946838033
SNP_P4_67145_48879601	NC_021163.1	Ca_kabuli_chr04	48879601	AA	GG	1946838035
SNP_P4_67146_48879619	NC_021163.1	Ca_kabuli_chr04	48879619	TT	CC	1946838037
SNP_P4_67147_48879970	NC_021163.1	Ca_kabuli_chr04	48879970	AA	GG	1946838039
SNP_P4_67148_48880089	NC_021163.1	Ca_kabuli_chr04	48880089	AA	GG	1946838041
SNP_P4_67149_48880447	NC_021163.1	Ca_kabuli_chr04	48880447	AA	GG	1946838043
SNP_P4_67150_48881798	NC_021163.1	Ca_kabuli_chr04	48881798	GG	TT	1946838045
SNP_P4_67151_48881801	NC_021163.1	Ca_kabuli_chr04	48881801	AA	TT	1946838047
SNP_P4_67152_48884633	NC_021163.1	Ca_kabuli_chr04	48884633	TT	AA	1946838049
SNP_P4_67153_48884748	NC_021163.1	Ca_kabuli_chr04	48884748	TT	CC	1946838051
SNP_P4_67154_48885097	NC_021163.1	Ca_kabuli_chr04	48885097	AA	GG	1946838053
SNP_P4_67155_48885103	NC_021163.1	Ca_kabuli_chr04	48885103	AA	GG	1946838056
SNP_P4_67156_48902978	NC_021163.1	Ca_kabuli_chr04	48902978	TT	CC	1946838058
SNP_P4_67157_48906398	NC_021163.1	Ca_kabuli_chr04	48906398	GG	CC	1946838060
SNP_P4_67158_48910068	NC_021163.1	Ca_kabuli_chr04	48910068	TT	CC	1946838062

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_67161_48975084	NC_021163.1	Ca_kabuli_chr04	48975084	GG	AA	1946838066
SNP_P4_67162_48975423	NC_021163.1	Ca_kabuli_chr04	48975423	TT	GG	1946838068
SNP_P4_67163_48975435	NC_021163.1	Ca_kabuli_chr04	48975435	AA	GG	1946838070
SNP_P4_67164_48999915	NC_021163.1	Ca_kabuli_chr04	48999915	TT	CC	1946838072
SNP_P4_67165_49020909	NC_021163.1	Ca_kabuli_chr04	49020909	AA	GG	1946838074
SNP_P4_67166_49036545	NC_021163.1	Ca_kabuli_chr04	49036545	AA	GG	1946838076
SNP_P4_67167_49037905	NC_021163.1	Ca_kabuli_chr04	49037905	GG	AA	1946838078
SNP_P4_67168_49049614	NC_021163.1	Ca_kabuli_chr04	49049614	AA	GG	1946838080
SNP_P4_67169_49066955	NC_021163.1	Ca_kabuli_chr04	49066955	TT	CC	1946838082
SNP_P4_67170_49074675	NC_021163.1	Ca_kabuli_chr04	49074675	TT	AA	1946838084
SNP_P4_67175_49107112	NC_021163.1	Ca_kabuli_chr04	49107112	CC	AA	1946838086
SNP_P4_67176_49115446	NC_021163.1	Ca_kabuli_chr04	49115446	TT	AA	1946838088
SNP_P4_67180_49159025	NC_021163.1	Ca_kabuli_chr04	49159025	CC	TT	1946838090
SNP_P4_67181_49159418	NC_021163.1	Ca_kabuli_chr04	49159418	GG	AA	1946838092
SNP_P4_67182_49163046	NC_021163.1	Ca_kabuli_chr04	49163046	AA	GG	1946838094
SNP_P4_67183_49168464	NC_021163.1	Ca_kabuli_chr04	49168464	CC	TT	1946838096
SNP_P4_67184_49168775	NC_021163.1	Ca_kabuli_chr04	49168775	GG	TT	1946838098
SNP_P4_67185_49170463	NC_021163.1	Ca_kabuli_chr04	49170463	GG	AA	1946838100
SNP_P4_67186_49170465	NC_021163.1	Ca_kabuli_chr04	49170465	CC	AA	1946838102
SNP_P4_67187_49177737	NC_021163.1	Ca_kabuli_chr04	49177737	TT	CC	1946838104
SNP_P4_67188_49178861	NC_021163.1	Ca_kabuli_chr04	49178861	GG	AA	1946838106
SNP_P4_67189_49179453	NC_021163.1	Ca_kabuli_chr04	49179453	GG	AA	1946838108
SNP_P4_67190_49179475	NC_021163.1	Ca_kabuli_chr04	49179475	CC	TT	1946838110
SNP_P4_67191_49179516	NC_021163.1	Ca_kabuli_chr04	49179516	GG	TT	1946838112
SNP_P4_67192_49189576	NC_021163.1	Ca_kabuli_chr04	49189576	AA	TT	1946838114
SNP_P4_67193_49191424	NC_021163.1	Ca_kabuli_chr04	49191424	AA	GG	1946838116
SNP_P4_67194_49191426	NC_021163.1	Ca_kabuli_chr04	49191426	TT	CC	1946838118
SNP_P4_67195_49191433	NC_021163.1	Ca_kabuli_chr04	49191433	AA	CC	1946838120
SNP_P4_67196_49191450	NC_021163.1	Ca_kabuli_chr04	49191450	TT	CC	1946838122
SNP_P4_67197_27938	NC_021164.1	Ca_kabuli_chr05	27938	AA	GG	1946838124
SNP_P4_67199_32585	NC_021164.1	Ca_kabuli_chr05	32585	GG	CC	1946838126
SNP_P4_67200_33000	NC_021164.1	Ca_kabuli_chr05	33000	CC	AA	1946838128
SNP_P4_67201_44428	NC_021164.1	Ca_kabuli_chr05	44428	GG	TT	1946838130
SNP_P4_67202_44628	NC_021164.1	Ca_kabuli_chr05	44628	TT	AA	1946838132
SNP_P4_67203_44701	NC_021164.1	Ca_kabuli_chr05	44701	TT	CC	1946838134
SNP_P4_67204_44722	NC_021164.1	Ca_kabuli_chr05	44722	AA	CC	1946838136
SNP_P4_67205_44864	NC_021164.1	Ca_kabuli_chr05	44864	GG	CC	1946838138
SNP_P4_67206_44889	NC_021164.1	Ca_kabuli_chr05	44889	TT	CC	1946838140
SNP_P4_67207_45198	NC_021164.1	Ca_kabuli_chr05	45198	CC	AA	1946838142
SNP_P4_67208_50507	NC_021164.1	Ca_kabuli_chr05	50507	TT	AA	1946838144
SNP_P4_67209_50809	NC_021164.1	Ca_kabuli_chr05	50809	CC	TT	1946838146

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_67210_55383	NC_021164.1	Ca_kabuli_chr05	55383	AA	GG	1946838148
SNP_P4_67211_57602	NC_021164.1	Ca_kabuli_chr05	57602	CC	TT	1946838150
SNP_P4_67214_76223	NC_021164.1	Ca_kabuli_chr05	76223	TT	CC	1946838152
SNP_P4_67215_77807	NC_021164.1	Ca_kabuli_chr05	77807	CC	TT	1946838154
SNP_P4_67216_96455	NC_021164.1	Ca_kabuli_chr05	96455	GG	AA	1946838156
SNP_P4_67217_100888	NC_021164.1	Ca_kabuli_chr05	100888	TT	CC	1946838158
SNP_P4_67218_100890	NC_021164.1	Ca_kabuli_chr05	100890	GG	AA	1946838160
SNP_P4_67219_101170	NC_021164.1	Ca_kabuli_chr05	101170	AA	GG	1946838162
SNP_P4_67220_101224	NC_021164.1	Ca_kabuli_chr05	101224	AA	TT	1946838164
SNP_P4_67221_101303	NC_021164.1	Ca_kabuli_chr05	101303	TT	AA	1946838166
SNP_P4_67223_105710	NC_021164.1	Ca_kabuli_chr05	105710	CC	TT	1946838168
SNP_P4_67226_130741	NC_021164.1	Ca_kabuli_chr05	130741	TT	CC	1946838170
SNP_P4_67227_131397	NC_021164.1	Ca_kabuli_chr05	131397	AA	TT	1946838172
SNP_P4_67228_131707	NC_021164.1	Ca_kabuli_chr05	131707	TT	CC	1946838174
SNP_P4_67233_133179	NC_021164.1	Ca_kabuli_chr05	133179	TT	AA	1946838176
SNP_P4_67236_133441	NC_021164.1	Ca_kabuli_chr05	133441	TT	CC	1946838178
SNP_P4_67238_133830	NC_021164.1	Ca_kabuli_chr05	133830	CC	TT	1946838180
SNP_P4_67240_134226	NC_021164.1	Ca_kabuli_chr05	134226	CC	TT	1946838182
SNP_P4_67241_134244	NC_021164.1	Ca_kabuli_chr05	134244	TT	AA	1946838184
SNP_P4_67242_134320	NC_021164.1	Ca_kabuli_chr05	134320	TT	CC	1946838186
SNP_P4_67243_134367	NC_021164.1	Ca_kabuli_chr05	134367	GG	AA	1946838188
SNP_P4_67244_134384	NC_021164.1	Ca_kabuli_chr05	134384	TT	AA	1946838190
SNP_P4_67245_134392	NC_021164.1	Ca_kabuli_chr05	134392	GG	AA	1946838192
SNP_P4_67246_134435	NC_021164.1	Ca_kabuli_chr05	134435	CC	TT	1946838194
SNP_P4_67247_134466	NC_021164.1	Ca_kabuli_chr05	134466	GG	AA	1946838196
SNP_P4_67248_134487	NC_021164.1	Ca_kabuli_chr05	134487	CC	AA	1946838198
SNP_P4_67249_134514	NC_021164.1	Ca_kabuli_chr05	134514	TT	CC	1946838200
SNP_P4_67250_134710	NC_021164.1	Ca_kabuli_chr05	134710	TT	AA	1946838202
SNP_P4_67251_134778	NC_021164.1	Ca_kabuli_chr05	134778	AA	GG	1946838204
SNP_P4_67252_134858	NC_021164.1	Ca_kabuli_chr05	134858	CC	AA	1946838206
SNP_P4_67253_134871	NC_021164.1	Ca_kabuli_chr05	134871	CC	TT	1946838208
SNP_P4_67254_134888	NC_021164.1	Ca_kabuli_chr05	134888	CC	TT	1946838210
SNP_P4_67255_134892	NC_021164.1	Ca_kabuli_chr05	134892	AA	GG	1946838212
SNP_P4_67256_134913	NC_021164.1	Ca_kabuli_chr05	134913	GG	AA	1946838214
SNP_P4_67257_134948	NC_021164.1	Ca_kabuli_chr05	134948	AA	GG	1946838216
SNP_P4_67258_134976	NC_021164.1	Ca_kabuli_chr05	134976	AA	GG	1946838218
SNP_P4_67259_134992	NC_021164.1	Ca_kabuli_chr05	134992	TT	GG	1946838220
SNP_P4_67260_134996	NC_021164.1	Ca_kabuli_chr05	134996	AA	GG	1946838222
SNP_P4_67261_135002	NC_021164.1	Ca_kabuli_chr05	135002	GG	AA	1946838224
SNP_P4_67262_135033	NC_021164.1	Ca_kabuli_chr05	135033	AA	GG	1946838226
SNP_P4_67264_135685	NC_021164.1	Ca_kabuli_chr05	135685	GG	AA	1946838228
SNP_P4_67265_135931	NC_021164.1	Ca_kabuli_chr05	135931	CC	TT	1946838230

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_67266_136021	NC_021164.1	Ca_kabuli_chr05	136021	TT	AA	1946838232
SNP_P4_67268_140321	NC_021164.1	Ca_kabuli_chr05	140321	CC	AA	1946838234
SNP_P4_67270_140543	NC_021164.1	Ca_kabuli_chr05	140543	AA	CC	1946838236
SNP_P4_67271_140923	NC_021164.1	Ca_kabuli_chr05	140923	CC	TT	1946838238
SNP_P4_67273_146875	NC_021164.1	Ca_kabuli_chr05	146875	TT	AA	1946838240
SNP_P4_67274_146876	NC_021164.1	Ca_kabuli_chr05	146876	TT	AA	1946838242
SNP_P4_67275_146881	NC_021164.1	Ca_kabuli_chr05	146881	CC	TT	1946838244
SNP_P4_67276_146908	NC_021164.1	Ca_kabuli_chr05	146908	TT	CC	1946838246
SNP_P4_67277_146979	NC_021164.1	Ca_kabuli_chr05	146979	TT	AA	1946838248
SNP_P4_67278_148420	NC_021164.1	Ca_kabuli_chr05	148420	AA	GG	1946838250
SNP_P4_67279_150761	NC_021164.1	Ca_kabuli_chr05	150761	TT	GG	1946838252
SNP_P4_67280_150770	NC_021164.1	Ca_kabuli_chr05	150770	AA	TT	1946838254
SNP_P4_67281_151393	NC_021164.1	Ca_kabuli_chr05	151393	GG	TT	1946838256
SNP_P4_67282_152196	NC_021164.1	Ca_kabuli_chr05	152196	TT	CC	1946838258
SNP_P4_67284_152630	NC_021164.1	Ca_kabuli_chr05	152630	GG	AA	1946838260
SNP_P4_67285_152632	NC_021164.1	Ca_kabuli_chr05	152632	AA	CC	1946838262
SNP_P4_67286_152648	NC_021164.1	Ca_kabuli_chr05	152648	TT	AA	1946838264
SNP_P4_67287_153448	NC_021164.1	Ca_kabuli_chr05	153448	TT	AA	1946838266
SNP_P4_67288_153449	NC_021164.1	Ca_kabuli_chr05	153449	AA	TT	1946838268
SNP_P4_67290_154013	NC_021164.1	Ca_kabuli_chr05	154013	GG	TT	1946838270
SNP_P4_67292_156794	NC_021164.1	Ca_kabuli_chr05	156794	AA	GG	1946838272
SNP_P4_67293_157839	NC_021164.1	Ca_kabuli_chr05	157839	AA	TT	1946838274
SNP_P4_67294_157840	NC_021164.1	Ca_kabuli_chr05	157840	GG	TT	1946838276
SNP_P4_67295_157890	NC_021164.1	Ca_kabuli_chr05	157890	AA	TT	1946838278
SNP_P4_67297_158539	NC_021164.1	Ca_kabuli_chr05	158539	AA	TT	1946838280
SNP_P4_67298_158755	NC_021164.1	Ca_kabuli_chr05	158755	GG	AA	1946838282
SNP_P4_67300_158835	NC_021164.1	Ca_kabuli_chr05	158835	TT	AA	1946838284
SNP_P4_67301_159072	NC_021164.1	Ca_kabuli_chr05	159072	GG	AA	1946838286
SNP_P4_67302_159135	NC_021164.1	Ca_kabuli_chr05	159135	TT	GG	1946838288
SNP_P4_67304_159990	NC_021164.1	Ca_kabuli_chr05	159990	TT	CC	1946838290
SNP_P4_67305_160014	NC_021164.1	Ca_kabuli_chr05	160014	CC	GG	1946838292
SNP_P4_67306_160019	NC_021164.1	Ca_kabuli_chr05	160019	GG	AA	1946838294
SNP_P4_67307_160339	NC_021164.1	Ca_kabuli_chr05	160339	AA	GG	1946838296
SNP_P4_67308_160378	NC_021164.1	Ca_kabuli_chr05	160378	TT	CC	1946838298
SNP_P4_67309_160529	NC_021164.1	Ca_kabuli_chr05	160529	GG	AA	1946838300
SNP_P4_67311_160863	NC_021164.1	Ca_kabuli_chr05	160863	GG	AA	1946838302
SNP_P4_67313_161179	NC_021164.1	Ca_kabuli_chr05	161179	CC	TT	1946838304
SNP_P4_67315_161513	NC_021164.1	Ca_kabuli_chr05	161513	AA	CC	1946838306
SNP_P4_67316_162383	NC_021164.1	Ca_kabuli_chr05	162383	TT	CC	1946838308
SNP_P4_67317_162843	NC_021164.1	Ca_kabuli_chr05	162843	TT	AA	1946838310
SNP_P4_67318_162845	NC_021164.1	Ca_kabuli_chr05	162845	TT	CC	1946838312
SNP_P4_67319_162853	NC_021164.1	Ca_kabuli_chr05	162853	TT	AA	1946838314

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_67321_164185	NC_021164.1	Ca_kabuli_chr05	164185	TT	GG	1946838316
SNP_P4_67322_164457	NC_021164.1	Ca_kabuli_chr05	164457	TT	AA	1946838318
SNP_P4_67323_167037	NC_021164.1	Ca_kabuli_chr05	167037	CC	TT	1946838320
SNP_P4_67324_167930	NC_021164.1	Ca_kabuli_chr05	167930	TT	CC	1946838322
SNP_P4_67325_168218	NC_021164.1	Ca_kabuli_chr05	168218	CC	TT	1946838323
SNP_P4_67327_168403	NC_021164.1	Ca_kabuli_chr05	168403	TT	CC	1946838325
SNP_P4_67328_168529	NC_021164.1	Ca_kabuli_chr05	168529	GG	AA	1946838327
SNP_P4_67329_168573	NC_021164.1	Ca_kabuli_chr05	168573	AA	TT	1946838329
SNP_P4_67330_168629	NC_021164.1	Ca_kabuli_chr05	168629	TT	CC	1946838331
SNP_P4_67331_169888	NC_021164.1	Ca_kabuli_chr05	169888	CC	TT	1946838333
SNP_P4_67332_170992	NC_021164.1	Ca_kabuli_chr05	170992	GG	AA	1946838335
SNP_P4_67333_171257	NC_021164.1	Ca_kabuli_chr05	171257	CC	AA	1946838337
SNP_P4_67334_171793	NC_021164.1	Ca_kabuli_chr05	171793	GG	CC	1946838339
SNP_P4_67335_172212	NC_021164.1	Ca_kabuli_chr05	172212	TT	CC	1946838341
SNP_P4_67336_172239	NC_021164.1	Ca_kabuli_chr05	172239	GG	AA	1946838343
SNP_P4_67337_172713	NC_021164.1	Ca_kabuli_chr05	172713	TT	CC	1946838345
SNP_P4_67338_172962	NC_021164.1	Ca_kabuli_chr05	172962	CC	TT	1946838347
SNP_P4_67341_174101	NC_021164.1	Ca_kabuli_chr05	174101	CC	TT	1946838348
SNP_P4_67342_178534	NC_021164.1	Ca_kabuli_chr05	178534	GG	AA	1946838350
SNP_P4_67343_178549	NC_021164.1	Ca_kabuli_chr05	178549	TT	GG	1946838352
SNP_P4_67344_178588	NC_021164.1	Ca_kabuli_chr05	178588	GG	AA	1946838354
SNP_P4_67345_178808	NC_021164.1	Ca_kabuli_chr05	178808	AA	CC	1946838356
SNP_P4_67346_178848	NC_021164.1	Ca_kabuli_chr05	178848	AA	CC	1946838358
SNP_P4_67347_180041	NC_021164.1	Ca_kabuli_chr05	180041	GG	CC	1946838360
SNP_P4_67348_180525	NC_021164.1	Ca_kabuli_chr05	180525	AA	GG	1946838362
SNP_P4_67349_180707	NC_021164.1	Ca_kabuli_chr05	180707	TT	AA	1946838364
SNP_P4_67350_180748	NC_021164.1	Ca_kabuli_chr05	180748	AA	TT	1946838366
SNP_P4_67351_180986	NC_021164.1	Ca_kabuli_chr05	180986	TT	CC	1946838368
SNP_P4_67352_184274	NC_021164.1	Ca_kabuli_chr05	184274	CC	TT	1946838370
SNP_P4_67353_184483	NC_021164.1	Ca_kabuli_chr05	184483	AA	TT	1946838371
SNP_P4_67354_184851	NC_021164.1	Ca_kabuli_chr05	184851	AA	GG	1946838373
SNP_P4_67355_185682	NC_021164.1	Ca_kabuli_chr05	185682	CC	TT	1946838375
SNP_P4_67359_193986	NC_021164.1	Ca_kabuli_chr05	193986	TT	AA	1946838377
SNP_P4_67360_193993	NC_021164.1	Ca_kabuli_chr05	193993	TT	CC	1946838379
SNP_P4_67361_194061	NC_021164.1	Ca_kabuli_chr05	194061	GG	AA	1946838381
SNP_P4_67362_194266	NC_021164.1	Ca_kabuli_chr05	194266	CC	AA	1946838383
SNP_P4_67363_194291	NC_021164.1	Ca_kabuli_chr05	194291	TT	GG	1946838385
SNP_P4_67364_194755	NC_021164.1	Ca_kabuli_chr05	194755	AA	TT	1946838387
SNP_P4_67365_194995	NC_021164.1	Ca_kabuli_chr05	194995	AA	GG	1946838389
SNP_P4_67366_195331	NC_021164.1	Ca_kabuli_chr05	195331	CC	AA	1946838391
SNP_P4_67367_195339	NC_021164.1	Ca_kabuli_chr05	195339	CC	TT	1946838392
SNP_P4_67368_195476	NC_021164.1	Ca_kabuli_chr05	195476	GG	AA	1946838394

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_67369_195520	NC_021164.1	Ca_kabuli_chr05	195520	TT	CC	1946838396
SNP_P4_67370_195644	NC_021164.1	Ca_kabuli_chr05	195644	AA	GG	1946838398
SNP_P4_67371_195669	NC_021164.1	Ca_kabuli_chr05	195669	CC	GG	1946838400
SNP_P4_67372_195671	NC_021164.1	Ca_kabuli_chr05	195671	AA	TT	1946838402
SNP_P4_67373_195675	NC_021164.1	Ca_kabuli_chr05	195675	AA	TT	1946838404
SNP_P4_67374_195709	NC_021164.1	Ca_kabuli_chr05	195709	GG	AA	1946838406
SNP_P4_67377_197700	NC_021164.1	Ca_kabuli_chr05	197700	AA	TT	1946838408
SNP_P4_67378_197722	NC_021164.1	Ca_kabuli_chr05	197722	GG	TT	1946838410
SNP_P4_67380_201293	NC_021164.1	Ca_kabuli_chr05	201293	CC	TT	1946838412
SNP_P4_67381_202119	NC_021164.1	Ca_kabuli_chr05	202119	TT	GG	1946838414
SNP_P4_67383_203100	NC_021164.1	Ca_kabuli_chr05	203100	AA	CC	1946838416
SNP_P4_67384_204437	NC_021164.1	Ca_kabuli_chr05	204437	CC	TT	1946838418
SNP_P4_67385_205115	NC_021164.1	Ca_kabuli_chr05	205115	CC	GG	1946838420
SNP_P4_67386_205701	NC_021164.1	Ca_kabuli_chr05	205701	CC	TT	1946838422
SNP_P4_67387_205923	NC_021164.1	Ca_kabuli_chr05	205923	TT	CC	1946838424
SNP_P4_67388_206388	NC_021164.1	Ca_kabuli_chr05	206388	GG	AA	1946838426
SNP_P4_67389_206482	NC_021164.1	Ca_kabuli_chr05	206482	AA	GG	1946838428
SNP_P4_67390_206497	NC_021164.1	Ca_kabuli_chr05	206497	GG	TT	1946838430
SNP_P4_67392_206576	NC_021164.1	Ca_kabuli_chr05	206576	GG	AA	1946838432
SNP_P4_67393_206715	NC_021164.1	Ca_kabuli_chr05	206715	TT	GG	1946838434
SNP_P4_67395_206823	NC_021164.1	Ca_kabuli_chr05	206823	AA	GG	1946838436
SNP_P4_67396_206955	NC_021164.1	Ca_kabuli_chr05	206955	CC	GG	1946838438
SNP_P4_67397_207384	NC_021164.1	Ca_kabuli_chr05	207384	TT	AA	1946838440
SNP_P4_67398_207385	NC_021164.1	Ca_kabuli_chr05	207385	GG	TT	1946838442
SNP_P4_67399_207765	NC_021164.1	Ca_kabuli_chr05	207765	TT	CC	1946838444
SNP_P4_67400_207884	NC_021164.1	Ca_kabuli_chr05	207884	CC	TT	1946838446
SNP_P4_67402_208156	NC_021164.1	Ca_kabuli_chr05	208156	GG	CC	1946838448
SNP_P4_67404_209388	NC_021164.1	Ca_kabuli_chr05	209388	TT	CC	1946838450
SNP_P4_67409_210125	NC_021164.1	Ca_kabuli_chr05	210125	AA	TT	1946838452
SNP_P4_67411_210232	NC_021164.1	Ca_kabuli_chr05	210232	CC	GG	1946838454
SNP_P4_67414_210818	NC_021164.1	Ca_kabuli_chr05	210818	GG	CC	1946838456
SNP_P4_67415_212161	NC_021164.1	Ca_kabuli_chr05	212161	GG	TT	1946838458
SNP_P4_67416_212211	NC_021164.1	Ca_kabuli_chr05	212211	TT	GG	1946838460
SNP_P4_67417_212339	NC_021164.1	Ca_kabuli_chr05	212339	AA	TT	1946838462
SNP_P4_67419_212697	NC_021164.1	Ca_kabuli_chr05	212697	TT	AA	1946838464
SNP_P4_67420_212742	NC_021164.1	Ca_kabuli_chr05	212742	CC	GG	1946838466
SNP_P4_67421_212752	NC_021164.1	Ca_kabuli_chr05	212752	CC	AA	1946838468
SNP_P4_67422_212757	NC_021164.1	Ca_kabuli_chr05	212757	AA	CC	1946838470
SNP_P4_67423_212767	NC_021164.1	Ca_kabuli_chr05	212767	TT	CC	1946838471
SNP_P4_67424_212808	NC_021164.1	Ca_kabuli_chr05	212808	AA	CC	1946838473
SNP_P4_67425_213538	NC_021164.1	Ca_kabuli_chr05	213538	CC	TT	1946838475
SNP_P4_67426_214896	NC_021164.1	Ca_kabuli_chr05	214896	AA	GG	1946838477

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_67427_217768	NC_021164.1	Ca_kabuli_chr05	217768	AA	CC	1946838479
SNP_P4_67428_217805	NC_021164.1	Ca_kabuli_chr05	217805	CC	TT	1946838481
SNP_P4_67429_217859	NC_021164.1	Ca_kabuli_chr05	217859	CC	GG	1946838483
SNP_P4_67430_218395	NC_021164.1	Ca_kabuli_chr05	218395	GG	TT	1946838485
SNP_P4_67431_218418	NC_021164.1	Ca_kabuli_chr05	218418	GG	CC	1946838487
SNP_P4_67433_218520	NC_021164.1	Ca_kabuli_chr05	218520	TT	AA	1946838489
SNP_P4_67435_218718	NC_021164.1	Ca_kabuli_chr05	218718	CC	GG	1946838491
SNP_P4_67436_219678	NC_021164.1	Ca_kabuli_chr05	219678	TT	AA	1946838493
SNP_P4_67437_220965	NC_021164.1	Ca_kabuli_chr05	220965	GG	TT	1946838495
SNP_P4_67439_222391	NC_021164.1	Ca_kabuli_chr05	222391	AA	GG	1946838497
SNP_P4_67440_225229	NC_021164.1	Ca_kabuli_chr05	225229	AA	CC	1946838498
SNP_P4_67441_225380	NC_021164.1	Ca_kabuli_chr05	225380	GG	TT	1946838500
SNP_P4_67443_225484	NC_021164.1	Ca_kabuli_chr05	225484	AA	GG	1946838502
SNP_P4_67445_225574	NC_021164.1	Ca_kabuli_chr05	225574	TT	CC	1946838504
SNP_P4_67446_225597	NC_021164.1	Ca_kabuli_chr05	225597	CC	TT	1946838506
SNP_P4_67447_225610	NC_021164.1	Ca_kabuli_chr05	225610	GG	AA	1946838508
SNP_P4_67448_225650	NC_021164.1	Ca_kabuli_chr05	225650	TT	AA	1946838510
SNP_P4_67449_225652	NC_021164.1	Ca_kabuli_chr05	225652	TT	CC	1946838512
SNP_P4_67450_225682	NC_021164.1	Ca_kabuli_chr05	225682	AA	GG	1946838514
SNP_P4_67451_225823	NC_021164.1	Ca_kabuli_chr05	225823	CC	AA	1946838516
SNP_P4_67453_230526	NC_021164.1	Ca_kabuli_chr05	230526	TT	CC	1946838518
SNP_P4_67454_230575	NC_021164.1	Ca_kabuli_chr05	230575	CC	TT	1946838520
SNP_P4_67455_230621	NC_021164.1	Ca_kabuli_chr05	230621	GG	TT	1946838522
SNP_P4_67456_231058	NC_021164.1	Ca_kabuli_chr05	231058	GG	AA	1946838524
SNP_P4_67457_232454	NC_021164.1	Ca_kabuli_chr05	232454	AA	GG	1946838525
SNP_P4_67462_237083	NC_021164.1	Ca_kabuli_chr05	237083	TT	CC	1946838527
SNP_P4_67463_237119	NC_021164.1	Ca_kabuli_chr05	237119	GG	AA	1946838529
SNP_P4_67464_237157	NC_021164.1	Ca_kabuli_chr05	237157	GG	AA	1946838531
SNP_P4_67466_237288	NC_021164.1	Ca_kabuli_chr05	237288	TT	CC	1946838533
SNP_P4_67468_237612	NC_021164.1	Ca_kabuli_chr05	237612	TT	CC	1946838535
SNP_P4_67469_237713	NC_021164.1	Ca_kabuli_chr05	237713	TT	AA	1946838537
SNP_P4_67471_238089	NC_021164.1	Ca_kabuli_chr05	238089	GG	CC	1946838539
SNP_P4_67472_238923	NC_021164.1	Ca_kabuli_chr05	238923	TT	AA	1946838541
SNP_P4_67473_238935	NC_021164.1	Ca_kabuli_chr05	238935	AA	TT	1946838543
SNP_P4_67475_239555	NC_021164.1	Ca_kabuli_chr05	239555	TT	CC	1946838545
SNP_P4_67476_239605	NC_021164.1	Ca_kabuli_chr05	239605	TT	GG	1946838547
SNP_P4_67478_240335	NC_021164.1	Ca_kabuli_chr05	240335	AA	TT	1946838549
SNP_P4_67479_240337	NC_021164.1	Ca_kabuli_chr05	240337	CC	TT	1946838551
SNP_P4_67480_240344	NC_021164.1	Ca_kabuli_chr05	240344	TT	CC	1946838553
SNP_P4_67481_240380	NC_021164.1	Ca_kabuli_chr05	240380	GG	AA	1946838555
SNP_P4_67482_240384	NC_021164.1	Ca_kabuli_chr05	240384	GG	CC	1946838557
SNP_P4_67483_240391	NC_021164.1	Ca_kabuli_chr05	240391	AA	GG	1946838559

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_67484_240487	NC_021164.1	Ca_kabuli_chr05	240487	AA	GG	1946838561
SNP_P4_67485_240496	NC_021164.1	Ca_kabuli_chr05	240496	AA	GG	1946838563
SNP_P4_67486_240505	NC_021164.1	Ca_kabuli_chr05	240505	AA	CC	1946838565
SNP_P4_67487_240510	NC_021164.1	Ca_kabuli_chr05	240510	AA	CC	1946838567
SNP_P4_67488_240562	NC_021164.1	Ca_kabuli_chr05	240562	CC	GG	1946838569
SNP_P4_67489_240593	NC_021164.1	Ca_kabuli_chr05	240593	GG	AA	1946838571
SNP_P4_67490_240596	NC_021164.1	Ca_kabuli_chr05	240596	GG	AA	1946838573
SNP_P4_67491_240632	NC_021164.1	Ca_kabuli_chr05	240632	CC	GG	1946838575
SNP_P4_67492_240637	NC_021164.1	Ca_kabuli_chr05	240637	GG	AA	1946838577
SNP_P4_67494_240781	NC_021164.1	Ca_kabuli_chr05	240781	AA	CC	1946838579
SNP_P4_67495_241154	NC_021164.1	Ca_kabuli_chr05	241154	CC	AA	1946838581
SNP_P4_67496_241159	NC_021164.1	Ca_kabuli_chr05	241159	TT	AA	1946838583
SNP_P4_67498_241209	NC_021164.1	Ca_kabuli_chr05	241209	GG	TT	1946838585
SNP_P4_67499_241343	NC_021164.1	Ca_kabuli_chr05	241343	AA	CC	1946838587
SNP_P4_67500_241375	NC_021164.1	Ca_kabuli_chr05	241375	TT	CC	1946838589
SNP_P4_67502_243201	NC_021164.1	Ca_kabuli_chr05	243201	CC	TT	1946838591
SNP_P4_67503_243397	NC_021164.1	Ca_kabuli_chr05	243397	CC	GG	1946838593
SNP_P4_67504_243543	NC_021164.1	Ca_kabuli_chr05	243543	AA	GG	1946838595
SNP_P4_67505_243786	NC_021164.1	Ca_kabuli_chr05	243786	GG	TT	1946838597
SNP_P4_67506_243820	NC_021164.1	Ca_kabuli_chr05	243820	AA	GG	1946838599
SNP_P4_67507_243878	NC_021164.1	Ca_kabuli_chr05	243878	TT	CC	1946838601
SNP_P4_67508_243887	NC_021164.1	Ca_kabuli_chr05	243887	TT	CC	1946838603
SNP_P4_67509_243929	NC_021164.1	Ca_kabuli_chr05	243929	CC	TT	1946838605
SNP_P4_67510_243945	NC_021164.1	Ca_kabuli_chr05	243945	TT	CC	1946838607
SNP_P4_67511_244004	NC_021164.1	Ca_kabuli_chr05	244004	AA	GG	1946838609
SNP_P4_67512_244034	NC_021164.1	Ca_kabuli_chr05	244034	TT	CC	1946838611
SNP_P4_67513_244076	NC_021164.1	Ca_kabuli_chr05	244076	AA	CC	1946838613
SNP_P4_67515_244169	NC_021164.1	Ca_kabuli_chr05	244169	CC	TT	1946838615
SNP_P4_67516_244215	NC_021164.1	Ca_kabuli_chr05	244215	CC	AA	1946838617
SNP_P4_67518_244276	NC_021164.1	Ca_kabuli_chr05	244276	CC	AA	1946838619
SNP_P4_67519_244299	NC_021164.1	Ca_kabuli_chr05	244299	AA	GG	1946838621
SNP_P4_67521_244370	NC_021164.1	Ca_kabuli_chr05	244370	GG	AA	1946838623
SNP_P4_67522_244419	NC_021164.1	Ca_kabuli_chr05	244419	CC	TT	1946838625
SNP_P4_67523_244422	NC_021164.1	Ca_kabuli_chr05	244422	CC	AA	1946838627
SNP_P4_67524_244424	NC_021164.1	Ca_kabuli_chr05	244424	TT	AA	1946838629
SNP_P4_67525_244450	NC_021164.1	Ca_kabuli_chr05	244450	AA	GG	1946838631
SNP_P4_67526_244457	NC_021164.1	Ca_kabuli_chr05	244457	AA	GG	1946838633
SNP_P4_67527_244594	NC_021164.1	Ca_kabuli_chr05	244594	CC	TT	1946838635
SNP_P4_67530_246466	NC_021164.1	Ca_kabuli_chr05	246466	TT	AA	1946838637
SNP_P4_67531_252396	NC_021164.1	Ca_kabuli_chr05	252396	TT	CC	1946838639
SNP_P4_67532_252649	NC_021164.1	Ca_kabuli_chr05	252649	TT	CC	1946838641
SNP_P4_67533_259475	NC_021164.1	Ca_kabuli_chr05	259475	TT	CC	1946838643

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_67536_260966	NC_021164.1	Ca_kabuli_chr05	260966	AA	GG	1946838647
SNP_P4_67537_261261	NC_021164.1	Ca_kabuli_chr05	261261	GG	TT	1946838649
SNP_P4_67539_267342	NC_021164.1	Ca_kabuli_chr05	267342	CC	TT	1946838651
SNP_P4_67540_271551	NC_021164.1	Ca_kabuli_chr05	271551	GG	CC	1946838653
SNP_P4_67541_271887	NC_021164.1	Ca_kabuli_chr05	271887	TT	AA	1946838655
SNP_P4_67542_272972	NC_021164.1	Ca_kabuli_chr05	272972	AA	TT	1946838656
SNP_P4_67544_278551	NC_021164.1	Ca_kabuli_chr05	278551	AA	GG	1946838658
SNP_P4_67547_286669	NC_021164.1	Ca_kabuli_chr05	286669	AA	GG	1946838660
SNP_P4_67548_287671	NC_021164.1	Ca_kabuli_chr05	287671	AA	GG	1946838662
SNP_P4_67552_289683	NC_021164.1	Ca_kabuli_chr05	289683	AA	GG	1946838664
SNP_P4_67553_289781	NC_021164.1	Ca_kabuli_chr05	289781	TT	AA	1946838666
SNP_P4_67554_289794	NC_021164.1	Ca_kabuli_chr05	289794	GG	AA	1946838668
SNP_P4_67556_290880	NC_021164.1	Ca_kabuli_chr05	290880	GG	TT	1946838670
SNP_P4_67557_290885	NC_021164.1	Ca_kabuli_chr05	290885	AA	TT	1946838672
SNP_P4_67558_291039	NC_021164.1	Ca_kabuli_chr05	291039	AA	TT	1946838674
SNP_P4_67559_291040	NC_021164.1	Ca_kabuli_chr05	291040	GG	CC	1946838676
SNP_P4_67561_291116	NC_021164.1	Ca_kabuli_chr05	291116	TT	CC	1946838678
SNP_P4_67562_291177	NC_021164.1	Ca_kabuli_chr05	291177	CC	TT	1946838680
SNP_P4_67563_291228	NC_021164.1	Ca_kabuli_chr05	291228	GG	AA	1946838682
SNP_P4_67564_291250	NC_021164.1	Ca_kabuli_chr05	291250	GG	AA	1946838684
SNP_P4_67565_291296	NC_021164.1	Ca_kabuli_chr05	291296	GG	AA	1946838686
SNP_P4_67566_291301	NC_021164.1	Ca_kabuli_chr05	291301	AA	TT	1946838688
SNP_P4_67567_291315	NC_021164.1	Ca_kabuli_chr05	291315	GG	AA	1946838691
SNP_P4_67568_291347	NC_021164.1	Ca_kabuli_chr05	291347	AA	GG	1946838693
SNP_P4_67570_291421	NC_021164.1	Ca_kabuli_chr05	291421	GG	AA	1946838695
SNP_P4_67571_291439	NC_021164.1	Ca_kabuli_chr05	291439	GG	AA	1946838697
SNP_P4_67572_291545	NC_021164.1	Ca_kabuli_chr05	291545	CC	GG	1946838698
SNP_P4_67573_291546	NC_021164.1	Ca_kabuli_chr05	291546	AA	TT	1946838700
SNP_P4_67576_291981	NC_021164.1	Ca_kabuli_chr05	291981	AA	CC	1946838702
SNP_P4_67577_291986	NC_021164.1	Ca_kabuli_chr05	291986	GG	AA	1946838704
SNP_P4_67578_292029	NC_021164.1	Ca_kabuli_chr05	292029	TT	AA	1946838706
SNP_P4_67580_292231	NC_021164.1	Ca_kabuli_chr05	292231	CC	AA	1946838708
SNP_P4_67581_292255	NC_021164.1	Ca_kabuli_chr05	292255	CC	TT	1946838710
SNP_P4_67582_292286	NC_021164.1	Ca_kabuli_chr05	292286	AA	GG	1946838712
SNP_P4_67583_292296	NC_021164.1	Ca_kabuli_chr05	292296	TT	AA	1946838714
SNP_P4_67584_292423	NC_021164.1	Ca_kabuli_chr05	292423	TT	CC	1946838716
SNP_P4_67585_292460	NC_021164.1	Ca_kabuli_chr05	292460	AA	CC	1946838718
SNP_P4_67586_292517	NC_021164.1	Ca_kabuli_chr05	292517	CC	AA	1946838720
SNP_P4_67587_292525	NC_021164.1	Ca_kabuli_chr05	292525	GG	TT	1946838722
SNP_P4_67588_292546	NC_021164.1	Ca_kabuli_chr05	292546	TT	CC	1946838724
SNP_P4_67589_292675	NC_021164.1	Ca_kabuli_chr05	292675	TT	GG	1946838726

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_67591_293681	NC_021164.1	Ca_kabuli_chr05	293681	CC	AA	1946838730
SNP_P4_67592_293793	NC_021164.1	Ca_kabuli_chr05	293793	GG	AA	1946838732
SNP_P4_67593_294098	NC_021164.1	Ca_kabuli_chr05	294098	GG	AA	1946838734
SNP_P4_67594_297032	NC_021164.1	Ca_kabuli_chr05	297032	TT	CC	1946838736
SNP_P4_67595_297102	NC_021164.1	Ca_kabuli_chr05	297102	CC	TT	1946838738
SNP_P4_67596_298190	NC_021164.1	Ca_kabuli_chr05	298190	CC	TT	1946838739
SNP_P4_67597_298554	NC_021164.1	Ca_kabuli_chr05	298554	GG	AA	1946838741
SNP_P4_67598_301620	NC_021164.1	Ca_kabuli_chr05	301620	CC	TT	1946838743
SNP_P4_67599_301933	NC_021164.1	Ca_kabuli_chr05	301933	AA	GG	1946838745
SNP_P4_67600_301992	NC_021164.1	Ca_kabuli_chr05	301992	AA	GG	1946838747
SNP_P4_67601_302015	NC_021164.1	Ca_kabuli_chr05	302015	TT	CC	1946838749
SNP_P4_67602_302099	NC_021164.1	Ca_kabuli_chr05	302099	AA	TT	1946838751
SNP_P4_67603_316698	NC_021164.1	Ca_kabuli_chr05	316698	TT	AA	1946838753
SNP_P4_67605_317821	NC_021164.1	Ca_kabuli_chr05	317821	GG	TT	1946838755
SNP_P4_67606_319114	NC_021164.1	Ca_kabuli_chr05	319114	AA	GG	1946838757
SNP_P4_67607_319144	NC_021164.1	Ca_kabuli_chr05	319144	CC	AA	1946838759
SNP_P4_67608_319335	NC_021164.1	Ca_kabuli_chr05	319335	GG	AA	1946838761
SNP_P4_67609_322908	NC_021164.1	Ca_kabuli_chr05	322908	AA	GG	1946838763
SNP_P4_67611_323263	NC_021164.1	Ca_kabuli_chr05	323263	CC	TT	1946838765
SNP_P4_67613_335325	NC_021164.1	Ca_kabuli_chr05	335325	GG	AA	1946838767
SNP_P4_67614_336324	NC_021164.1	Ca_kabuli_chr05	336324	CC	AA	1946838769
SNP_P4_67617_337856	NC_021164.1	Ca_kabuli_chr05	337856	TT	AA	1946838771
SNP_P4_67618_340362	NC_021164.1	Ca_kabuli_chr05	340362	GG	AA	1946838773
SNP_P4_67619_340669	NC_021164.1	Ca_kabuli_chr05	340669	CC	TT	1946838775
SNP_P4_67620_347596	NC_021164.1	Ca_kabuli_chr05	347596	AA	CC	1946838777
SNP_P4_67621_347634	NC_021164.1	Ca_kabuli_chr05	347634	AA	TT	1946838779
SNP_P4_67622_347656	NC_021164.1	Ca_kabuli_chr05	347656	GG	AA	1946838781
SNP_P4_67623_347675	NC_021164.1	Ca_kabuli_chr05	347675	GG	AA	1946838783
SNP_P4_67624_348034	NC_021164.1	Ca_kabuli_chr05	348034	GG	AA	1946838785
SNP_P4_67625_357266	NC_021164.1	Ca_kabuli_chr05	357266	TT	CC	1946838787
SNP_P4_67627_362389	NC_021164.1	Ca_kabuli_chr05	362389	AA	GG	1946838789
SNP_P4_67628_362831	NC_021164.1	Ca_kabuli_chr05	362831	TT	AA	1946838791
SNP_P4_67629_362851	NC_021164.1	Ca_kabuli_chr05	362851	AA	CC	1946838793
SNP_P4_67630_362971	NC_021164.1	Ca_kabuli_chr05	362971	AA	GG	1946838795
SNP_P4_67631_362981	NC_021164.1	Ca_kabuli_chr05	362981	TT	CC	1946838797
SNP_P4_67632_371371	NC_021164.1	Ca_kabuli_chr05	371371	TT	CC	1946838799
SNP_P4_67633_373587	NC_021164.1	Ca_kabuli_chr05	373587	AA	GG	1946838801
SNP_P4_67634_375127	NC_021164.1	Ca_kabuli_chr05	375127	TT	AA	1946838803
SNP_P4_67635_384515	NC_021164.1	Ca_kabuli_chr05	384515	GG	TT	1946838805
SNP_P4_67636_388423	NC_021164.1	Ca_kabuli_chr05	388423	CC	GG	1946838807
SNP_P4_67637_394768	NC_021164.1	Ca_kabuli_chr05	394768	AA	TT	1946838809

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_67640_395994	NC_021164.1	Ca_kabuli_chr05	395994	CC	TT	1946838813
SNP_P4_67641_396969	NC_021164.1	Ca_kabuli_chr05	396969	CC	TT	1946838815
SNP_P4_67642_406752	NC_021164.1	Ca_kabuli_chr05	406752	CC	TT	1946838817
SNP_P4_67643_411600	NC_021164.1	Ca_kabuli_chr05	411600	TT	CC	1946838819
SNP_P4_67644_412472	NC_021164.1	Ca_kabuli_chr05	412472	GG	AA	1946838821
SNP_P4_67646_422768	NC_021164.1	Ca_kabuli_chr05	422768	TT	CC	1946838823
SNP_P4_67648_425659	NC_021164.1	Ca_kabuli_chr05	425659	AA	GG	1946838825
SNP_P4_67649_437847	NC_021164.1	Ca_kabuli_chr05	437847	TT	CC	1946838827
SNP_P4_67650_440628	NC_021164.1	Ca_kabuli_chr05	440628	TT	CC	1946838829
SNP_P4_67651_440817	NC_021164.1	Ca_kabuli_chr05	440817	CC	TT	1946838831
SNP_P4_67652_440938	NC_021164.1	Ca_kabuli_chr05	440938	TT	CC	1946838833
SNP_P4_67653_441136	NC_021164.1	Ca_kabuli_chr05	441136	AA	GG	1946838835
SNP_P4_67654_441250	NC_021164.1	Ca_kabuli_chr05	441250	GG	AA	1946838838
SNP_P4_67655_441330	NC_021164.1	Ca_kabuli_chr05	441330	TT	CC	1946838840
SNP_P4_67656_441998	NC_021164.1	Ca_kabuli_chr05	441998	GG	AA	1946838842
SNP_P4_67658_446261	NC_021164.1	Ca_kabuli_chr05	446261	CC	AA	1946838844
SNP_P4_67659_449941	NC_021164.1	Ca_kabuli_chr05	449941	AA	GG	1946838846
SNP_P4_67660_450718	NC_021164.1	Ca_kabuli_chr05	450718	TT	AA	1946838848
SNP_P4_67661_453070	NC_021164.1	Ca_kabuli_chr05	453070	CC	TT	1946838850
SNP_P4_67662_456129	NC_021164.1	Ca_kabuli_chr05	456129	TT	GG	1946838852
SNP_P4_67664_456534	NC_021164.1	Ca_kabuli_chr05	456534	CC	TT	1946838854
SNP_P4_67666_457025	NC_021164.1	Ca_kabuli_chr05	457025	GG	AA	1946838856
SNP_P4_67669_461695	NC_021164.1	Ca_kabuli_chr05	461695	GG	AA	1946838858
SNP_P4_67670_463981	NC_021164.1	Ca_kabuli_chr05	463981	AA	GG	1946838860
SNP_P4_67672_464291	NC_021164.1	Ca_kabuli_chr05	464291	TT	CC	1946838862
SNP_P4_67674_464328	NC_021164.1	Ca_kabuli_chr05	464328	GG	AA	1946838864
SNP_P4_67675_470485	NC_021164.1	Ca_kabuli_chr05	470485	TT	GG	1946838866
SNP_P4_67677_474156	NC_021164.1	Ca_kabuli_chr05	474156	TT	CC	1946838868
SNP_P4_67678_475450	NC_021164.1	Ca_kabuli_chr05	475450	TT	AA	1946838870
SNP_P4_67681_479501	NC_021164.1	Ca_kabuli_chr05	479501	CC	TT	1946838872
SNP_P4_67682_479787	NC_021164.1	Ca_kabuli_chr05	479787	GG	AA	1946838874
SNP_P4_67683_479996	NC_021164.1	Ca_kabuli_chr05	479996	TT	CC	1946838876
SNP_P4_67684_480163	NC_021164.1	Ca_kabuli_chr05	480163	AA	GG	1946838878
SNP_P4_67685_480245	NC_021164.1	Ca_kabuli_chr05	480245	AA	CC	1946838880
SNP_P4_67687_480948	NC_021164.1	Ca_kabuli_chr05	480948	GG	AA	1946838882
SNP_P4_67688_481727	NC_021164.1	Ca_kabuli_chr05	481727	CC	AA	1946838884
SNP_P4_67689_481731	NC_021164.1	Ca_kabuli_chr05	481731	CC	TT	1946838886
SNP_P4_67690_481743	NC_021164.1	Ca_kabuli_chr05	481743	TT	CC	1946838889
SNP_P4_67691_481770	NC_021164.1	Ca_kabuli_chr05	481770	CC	TT	1946838891
SNP_P4_67692_481778	NC_021164.1	Ca_kabuli_chr05	481778	GG	AA	1946838893
SNP_P4_67694_483187	NC_021164.1	Ca_kabuli_chr05	483187	AA	GG	1946838895

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_67695_485056	NC_021164.1	Ca_kabuli_chr05	485056	TT	CC	1946838897
SNP_P4_67696_485111	NC_021164.1	Ca_kabuli_chr05	485111	AA	GG	1946838899
SNP_P4_67697_485226	NC_021164.1	Ca_kabuli_chr05	485226	TT	AA	1946838901
SNP_P4_67698_485628	NC_021164.1	Ca_kabuli_chr05	485628	AA	GG	1946838903
SNP_P4_67699_487304	NC_021164.1	Ca_kabuli_chr05	487304	CC	TT	1946838905
SNP_P4_67700_488291	NC_021164.1	Ca_kabuli_chr05	488291	GG	TT	1946838907
SNP_P4_67701_489922	NC_021164.1	Ca_kabuli_chr05	489922	TT	CC	1946838909
SNP_P4_67702_489923	NC_021164.1	Ca_kabuli_chr05	489923	GG	TT	1946838911
SNP_P4_67703_490231	NC_021164.1	Ca_kabuli_chr05	490231	CC	GG	1946838914
SNP_P4_67704_490239	NC_021164.1	Ca_kabuli_chr05	490239	AA	GG	1946838916
SNP_P4_67705_490258	NC_021164.1	Ca_kabuli_chr05	490258	GG	AA	1946838918
SNP_P4_67706_490263	NC_021164.1	Ca_kabuli_chr05	490263	AA	GG	1946838920
SNP_P4_67707_490278	NC_021164.1	Ca_kabuli_chr05	490278	AA	GG	1946838922
SNP_P4_67708_492007	NC_021164.1	Ca_kabuli_chr05	492007	TT	CC	1946838924
SNP_P4_67709_492064	NC_021164.1	Ca_kabuli_chr05	492064	AA	TT	1946838926
SNP_P4_67710_492086	NC_021164.1	Ca_kabuli_chr05	492086	TT	GG	1946838928
SNP_P4_67711_492090	NC_021164.1	Ca_kabuli_chr05	492090	TT	CC	1946838930
SNP_P4_67712_492130	NC_021164.1	Ca_kabuli_chr05	492130	GG	TT	1946838932
SNP_P4_67713_492145	NC_021164.1	Ca_kabuli_chr05	492145	AA	TT	1946838934
SNP_P4_67714_492148	NC_021164.1	Ca_kabuli_chr05	492148	CC	TT	1946838937
SNP_P4_67715_492196	NC_021164.1	Ca_kabuli_chr05	492196	TT	AA	1946838939
SNP_P4_67716_492197	NC_021164.1	Ca_kabuli_chr05	492197	TT	CC	1946838941
SNP_P4_67717_492198	NC_021164.1	Ca_kabuli_chr05	492198	TT	CC	1946838943
SNP_P4_67718_492203	NC_021164.1	Ca_kabuli_chr05	492203	AA	GG	1946838945
SNP_P4_67719_492251	NC_021164.1	Ca_kabuli_chr05	492251	CC	AA	1946838947
SNP_P4_67720_492252	NC_021164.1	Ca_kabuli_chr05	492252	AA	TT	1946838949
SNP_P4_67721_492292	NC_021164.1	Ca_kabuli_chr05	492292	CC	GG	1946838951
SNP_P4_67722_492447	NC_021164.1	Ca_kabuli_chr05	492447	AA	GG	1946838953
SNP_P4_67723_492471	NC_021164.1	Ca_kabuli_chr05	492471	CC	TT	1946838955
SNP_P4_67724_492511	NC_021164.1	Ca_kabuli_chr05	492511	AA	GG	1946838957
SNP_P4_67725_492516	NC_021164.1	Ca_kabuli_chr05	492516	GG	TT	1946838959
SNP_P4_67726_492583	NC_021164.1	Ca_kabuli_chr05	492583	AA	TT	1946838961
SNP_P4_67727_492585	NC_021164.1	Ca_kabuli_chr05	492585	TT	AA	1946838963
SNP_P4_67729_492675	NC_021164.1	Ca_kabuli_chr05	492675	TT	GG	1946838965
SNP_P4_67730_492679	NC_021164.1	Ca_kabuli_chr05	492679	TT	CC	1946838967
SNP_P4_67731_492735	NC_021164.1	Ca_kabuli_chr05	492735	GG	TT	1946838970
SNP_P4_67732_492868	NC_021164.1	Ca_kabuli_chr05	492868	AA	GG	1946838972
SNP_P4_67733_492892	NC_021164.1	Ca_kabuli_chr05	492892	TT	AA	1946838974
SNP_P4_67734_493025	NC_021164.1	Ca_kabuli_chr05	493025	GG	TT	1946838976
SNP_P4_67735_493082	NC_021164.1	Ca_kabuli_chr05	493082	GG	AA	1946838978
SNP_P4_67736_496238	NC_021164.1	Ca_kabuli_chr05	496238	AA	GG	1946838980
SNP_P4_67737_496275	NC_021164.1	Ca_kabuli_chr05	496275	CC	TT	1946838982

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_67738_496734	NC_021164.1	Ca_kabuli_chr05	496734	CC	TT	1946838984
SNP_P4_67739_497005	NC_021164.1	Ca_kabuli_chr05	497005	AA	CC	1946838986
SNP_P4_67741_497152	NC_021164.1	Ca_kabuli_chr05	497152	GG	TT	1946838988
SNP_P4_67742_497175	NC_021164.1	Ca_kabuli_chr05	497175	TT	GG	1946838990
SNP_P4_67743_497203	NC_021164.1	Ca_kabuli_chr05	497203	TT	CC	1946838992
SNP_P4_67744_497462	NC_021164.1	Ca_kabuli_chr05	497462	CC	TT	1946838994
SNP_P4_67745_497512	NC_021164.1	Ca_kabuli_chr05	497512	AA	GG	1946838996
SNP_P4_67746_497519	NC_021164.1	Ca_kabuli_chr05	497519	AA	CC	1946838998
SNP_P4_67747_512911	NC_021164.1	Ca_kabuli_chr05	512911	TT	CC	1946839000
SNP_P4_67748_514540	NC_021164.1	Ca_kabuli_chr05	514540	TT	CC	1946839002
SNP_P4_67749_529250	NC_021164.1	Ca_kabuli_chr05	529250	CC	AA	1946839004
SNP_P4_67750_548556	NC_021164.1	Ca_kabuli_chr05	548556	TT	CC	1946839006
SNP_P4_67751_573341	NC_021164.1	Ca_kabuli_chr05	573341	GG	AA	1946839008
SNP_P4_67752_573574	NC_021164.1	Ca_kabuli_chr05	573574	GG	TT	1946839010
SNP_P4_67753_584020	NC_021164.1	Ca_kabuli_chr05	584020	CC	TT	1946839012
SNP_P4_67754_597770	NC_021164.1	Ca_kabuli_chr05	597770	GG	AA	1946839015
SNP_P4_67755_599383	NC_021164.1	Ca_kabuli_chr05	599383	TT	GG	1946839017
SNP_P4_67756_599387	NC_021164.1	Ca_kabuli_chr05	599387	TT	AA	1946839019
SNP_P4_67757_617275	NC_021164.1	Ca_kabuli_chr05	617275	TT	CC	1946839021
SNP_P4_67758_617747	NC_021164.1	Ca_kabuli_chr05	617747	CC	TT	1946839023
SNP_P4_67759_622549	NC_021164.1	Ca_kabuli_chr05	622549	TT	CC	1946839025
SNP_P4_67760_622725	NC_021164.1	Ca_kabuli_chr05	622725	AA	GG	1946839027
SNP_P4_67761_622729	NC_021164.1	Ca_kabuli_chr05	622729	GG	AA	1946839030
SNP_P4_67762_622737	NC_021164.1	Ca_kabuli_chr05	622737	GG	AA	1946839032
SNP_P4_67763_622774	NC_021164.1	Ca_kabuli_chr05	622774	GG	TT	1946839034
SNP_P4_67764_622782	NC_021164.1	Ca_kabuli_chr05	622782	TT	CC	1946839036
SNP_P4_67765_622828	NC_021164.1	Ca_kabuli_chr05	622828	AA	GG	1946839038
SNP_P4_67766_622834	NC_021164.1	Ca_kabuli_chr05	622834	AA	CC	1946839040
SNP_P4_67767_622837	NC_021164.1	Ca_kabuli_chr05	622837	CC	GG	1946839042
SNP_P4_67769_622915	NC_021164.1	Ca_kabuli_chr05	622915	AA	GG	1946839043
SNP_P4_67770_625529	NC_021164.1	Ca_kabuli_chr05	625529	CC	AA	1946839044
SNP_P4_67771_627588	NC_021164.1	Ca_kabuli_chr05	627588	AA	TT	1946839045
SNP_P4_67772_627589	NC_021164.1	Ca_kabuli_chr05	627589	AA	GG	1946839046
SNP_P4_67773_629744	NC_021164.1	Ca_kabuli_chr05	629744	GG	AA	1946839047
SNP_P4_67774_629964	NC_021164.1	Ca_kabuli_chr05	629964	GG	AA	1946839048
SNP_P4_67775_629999	NC_021164.1	Ca_kabuli_chr05	629999	AA	GG	1946839049
SNP_P4_67776_636063	NC_021164.1	Ca_kabuli_chr05	636063	AA	TT	1946839050
SNP_P4_67777_636074	NC_021164.1	Ca_kabuli_chr05	636074	AA	CC	1946839051
SNP_P4_67778_636076	NC_021164.1	Ca_kabuli_chr05	636076	TT	AA	1946839052
SNP_P4_67779_638378	NC_021164.1	Ca_kabuli_chr05	638378	AA	TT	1946839053
SNP_P4_67780_638402	NC_021164.1	Ca_kabuli_chr05	638402	TT	GG	1946839054
SNP_P4_67781_642123	NC_021164.1	Ca_kabuli_chr05	642123	TT	AA	1946839055

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_67783_642133	NC_021164.1	Ca_kabuli_chr05	642133	GG	AA	1946839057
SNP_P4_67784_643166	NC_021164.1	Ca_kabuli_chr05	643166	GG	AA	1946839058
SNP_P4_67785_643195	NC_021164.1	Ca_kabuli_chr05	643195	GG	TT	1946839059
SNP_P4_67786_643373	NC_021164.1	Ca_kabuli_chr05	643373	GG	AA	1946839060
SNP_P4_67787_643678	NC_021164.1	Ca_kabuli_chr05	643678	TT	AA	1946839061
SNP_P4_67788_643684	NC_021164.1	Ca_kabuli_chr05	643684	CC	TT	1946839062
SNP_P4_67789_643701	NC_021164.1	Ca_kabuli_chr05	643701	TT	CC	1946839063
SNP_P4_67790_644922	NC_021164.1	Ca_kabuli_chr05	644922	GG	TT	1946839064
SNP_P4_67791_655547	NC_021164.1	Ca_kabuli_chr05	655547	CC	GG	1946839065
SNP_P4_67792_655632	NC_021164.1	Ca_kabuli_chr05	655632	TT	CC	1946839066
SNP_P4_67793_655659	NC_021164.1	Ca_kabuli_chr05	655659	GG	CC	1946839067
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SNP_P4_67795_655675	NC_021164.1	Ca_kabuli_chr05	655675	CC	TT	1946839069
SNP_P4_67797_657118	NC_021164.1	Ca_kabuli_chr05	657118	AA	GG	1946839070
SNP_P4_67798_659717	NC_021164.1	Ca_kabuli_chr05	659717	CC	TT	1946839071
SNP_P4_67799_659724	NC_021164.1	Ca_kabuli_chr05	659724	AA	GG	1946839072
SNP_P4_67800_659733	NC_021164.1	Ca_kabuli_chr05	659733	AA	TT	1946839073
SNP_P4_67801_664351	NC_021164.1	Ca_kabuli_chr05	664351	GG	AA	1946839074
SNP_P4_67802_664544	NC_021164.1	Ca_kabuli_chr05	664544	TT	AA	1946839075
SNP_P4_67803_664702	NC_021164.1	Ca_kabuli_chr05	664702	TT	CC	1946839076
SNP_P4_67804_664870	NC_021164.1	Ca_kabuli_chr05	664870	AA	CC	1946839077
SNP_P4_67805_664946	NC_021164.1	Ca_kabuli_chr05	664946	TT	CC	1946839078
SNP_P4_67806_666157	NC_021164.1	Ca_kabuli_chr05	666157	AA	GG	1946839079
SNP_P4_67808_666502	NC_021164.1	Ca_kabuli_chr05	666502	GG	TT	1946839080
SNP_P4_67809_666524	NC_021164.1	Ca_kabuli_chr05	666524	TT	CC	1946839081
SNP_P4_67810_666539	NC_021164.1	Ca_kabuli_chr05	666539	AA	CC	1946839082
SNP_P4_67811_666879	NC_021164.1	Ca_kabuli_chr05	666879	GG	TT	1946839083
SNP_P4_67812_667266	NC_021164.1	Ca_kabuli_chr05	667266	TT	CC	1946839084
SNP_P4_67813_667292	NC_021164.1	Ca_kabuli_chr05	667292	AA	GG	1946839085
SNP_P4_67814_667304	NC_021164.1	Ca_kabuli_chr05	667304	GG	AA	1946839086
SNP_P4_67815_667307	NC_021164.1	Ca_kabuli_chr05	667307	AA	GG	1946839088
SNP_P4_67817_668041	NC_021164.1	Ca_kabuli_chr05	668041	GG	TT	1946839090
SNP_P4_67818_668044	NC_021164.1	Ca_kabuli_chr05	668044	TT	AA	1946839092
SNP_P4_67819_668059	NC_021164.1	Ca_kabuli_chr05	668059	CC	TT	1946839094
SNP_P4_67821_668157	NC_021164.1	Ca_kabuli_chr05	668157	AA	CC	1946839096
SNP_P4_67822_668279	NC_021164.1	Ca_kabuli_chr05	668279	CC	AA	1946839098
SNP_P4_67823_671406	NC_021164.1	Ca_kabuli_chr05	671406	CC	TT	1946839100
SNP_P4_67824_671408	NC_021164.1	Ca_kabuli_chr05	671408	AA	GG	1946839102
SNP_P4_67825_672174	NC_021164.1	Ca_kabuli_chr05	672174	CC	TT	1946839104
SNP_P4_67826_676203	NC_021164.1	Ca_kabuli_chr05	676203	GG	CC	1946839106
SNP_P4_67827_676226	NC_021164.1	Ca_kabuli_chr05	676226	GG	CC	1946839109

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_67828_676853	NC_021164.1	Ca_kabuli_chr05	676853	AA	TT	1946839111
SNP_P4_67829_677995	NC_021164.1	Ca_kabuli_chr05	677995	AA	GG	1946839113
SNP_P4_67830_681200	NC_021164.1	Ca_kabuli_chr05	681200	GG	TT	1946839114
SNP_P4_67831_681210	NC_021164.1	Ca_kabuli_chr05	681210	GG	CC	1946839116
SNP_P4_67832_681213	NC_021164.1	Ca_kabuli_chr05	681213	GG	TT	1946839118
SNP_P4_67833_681214	NC_021164.1	Ca_kabuli_chr05	681214	TT	CC	1946839120
SNP_P4_67834_681215	NC_021164.1	Ca_kabuli_chr05	681215	GG	AA	1946839122
SNP_P4_67835_681220	NC_021164.1	Ca_kabuli_chr05	681220	TT	GG	1946839124
SNP_P4_67836_681221	NC_021164.1	Ca_kabuli_chr05	681221	GG	TT	1946839126
SNP_P4_67837_681330	NC_021164.1	Ca_kabuli_chr05	681330	AA	TT	1946839128
SNP_P4_67838_681348	NC_021164.1	Ca_kabuli_chr05	681348	TT	CC	1946839130
SNP_P4_67839_681349	NC_021164.1	Ca_kabuli_chr05	681349	CC	TT	1946839132
SNP_P4_67840_681352	NC_021164.1	Ca_kabuli_chr05	681352	CC	TT	1946839134
SNP_P4_67841_681362	NC_021164.1	Ca_kabuli_chr05	681362	AA	CC	1946839136
SNP_P4_67842_681363	NC_021164.1	Ca_kabuli_chr05	681363	AA	TT	1946839138
SNP_P4_67843_681977	NC_021164.1	Ca_kabuli_chr05	681977	GG	CC	1946839140
SNP_P4_67844_681983	NC_021164.1	Ca_kabuli_chr05	681983	GG	AA	1946839142
SNP_P4_67845_681994	NC_021164.1	Ca_kabuli_chr05	681994	CC	TT	1946839144
SNP_P4_67846_682020	NC_021164.1	Ca_kabuli_chr05	682020	CC	TT	1946839146
SNP_P4_67847_682055	NC_021164.1	Ca_kabuli_chr05	682055	TT	CC	1946839147
SNP_P4_67848_697825	NC_021164.1	Ca_kabuli_chr05	697825	CC	TT	1946839149
SNP_P4_67849_715244	NC_021164.1	Ca_kabuli_chr05	715244	GG	TT	1946839151
SNP_P4_67850_715246	NC_021164.1	Ca_kabuli_chr05	715246	AA	CC	1946839153
SNP_P4_67851_715272	NC_021164.1	Ca_kabuli_chr05	715272	CC	AA	1946839155
SNP_P4_67852_715277	NC_021164.1	Ca_kabuli_chr05	715277	TT	CC	1946839157
SNP_P4_67853_715522	NC_021164.1	Ca_kabuli_chr05	715522	CC	TT	1946839159
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SNP_P4_67855_715537	NC_021164.1	Ca_kabuli_chr05	715537	TT	CC	1946839163
SNP_P4_67856_715582	NC_021164.1	Ca_kabuli_chr05	715582	CC	TT	1946839165
SNP_P4_67857_715619	NC_021164.1	Ca_kabuli_chr05	715619	CC	GG	1946839167
SNP_P4_67858_719373	NC_021164.1	Ca_kabuli_chr05	719373	CC	TT	1946839169
SNP_P4_67859_723388	NC_021164.1	Ca_kabuli_chr05	723388	TT	CC	1946839171
SNP_P4_67860_738239	NC_021164.1	Ca_kabuli_chr05	738239	TT	AA	1946839173
SNP_P4_67861_738240	NC_021164.1	Ca_kabuli_chr05	738240	GG	TT	1946839175
SNP_P4_67862_738249	NC_021164.1	Ca_kabuli_chr05	738249	GG	CC	1946839176
SNP_P4_67863_738250	NC_021164.1	Ca_kabuli_chr05	738250	GG	TT	1946839178
SNP_P4_67864_755303	NC_021164.1	Ca_kabuli_chr05	755303	CC	TT	1946839180
SNP_P4_67865_755980	NC_021164.1	Ca_kabuli_chr05	755980	GG	TT	1946839182
SNP_P4_67866_789787	NC_021164.1	Ca_kabuli_chr05	789787	AA	GG	1946839184
SNP_P4_67867_795136	NC_021164.1	Ca_kabuli_chr05	795136	TT	GG	1946839186
SNP_P4_67868_795138	NC_021164.1	Ca_kabuli_chr05	795138	AA	CC	1946839188
SNP_P4_67869_805859	NC_021164.1	Ca_kabuli_chr05	805859	CC	TT	1946839190

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_67872_814481	NC_021164.1	Ca_kabuli_chr05	814481	CC	TT	1946839194
SNP_P4_67873_814580	NC_021164.1	Ca_kabuli_chr05	814580	CC	TT	1946839196
SNP_P4_67874_834278	NC_021164.1	Ca_kabuli_chr05	834278	AA	GG	1946839198
SNP_P4_67875_834609	NC_021164.1	Ca_kabuli_chr05	834609	GG	TT	1946839200
SNP_P4_67876_842317	NC_021164.1	Ca_kabuli_chr05	842317	GG	AA	1946839202
SNP_P4_67877_853328	NC_021164.1	Ca_kabuli_chr05	853328	CC	TT	1946839204
SNP_P4_67878_853390	NC_021164.1	Ca_kabuli_chr05	853390	AA	GG	1946839206
SNP_P4_67879_853530	NC_021164.1	Ca_kabuli_chr05	853530	TT	CC	1946839208
SNP_P4_67880_853707	NC_021164.1	Ca_kabuli_chr05	853707	AA	GG	1946839210
SNP_P4_67881_877125	NC_021164.1	Ca_kabuli_chr05	877125	AA	TT	1946839212
SNP_P4_67882_877433	NC_021164.1	Ca_kabuli_chr05	877433	AA	TT	1946839214
SNP_P4_67883_877485	NC_021164.1	Ca_kabuli_chr05	877485	AA	GG	1946839216
SNP_P4_67884_884448	NC_021164.1	Ca_kabuli_chr05	884448	TT	CC	1946839218
SNP_P4_67885_884522	NC_021164.1	Ca_kabuli_chr05	884522	TT	CC	1946839220
SNP_P4_67887_885251	NC_021164.1	Ca_kabuli_chr05	885251	AA	CC	1946839222
SNP_P4_67888_897033	NC_021164.1	Ca_kabuli_chr05	897033	TT	CC	1946839224
SNP_P4_67889_897054	NC_021164.1	Ca_kabuli_chr05	897054	CC	TT	1946839226
SNP_P4_67890_897287	NC_021164.1	Ca_kabuli_chr05	897287	GG	TT	1946839228
SNP_P4_67891_897346	NC_021164.1	Ca_kabuli_chr05	897346	AA	TT	1946839230
SNP_P4_67892_904708	NC_021164.1	Ca_kabuli_chr05	904708	CC	TT	1946839232
SNP_P4_67893_907809	NC_021164.1	Ca_kabuli_chr05	907809	CC	TT	1946839234
SNP_P4_67894_917727	NC_021164.1	Ca_kabuli_chr05	917727	GG	AA	1946839236
SNP_P4_67897_927701	NC_021164.1	Ca_kabuli_chr05	927701	AA	GG	1946839238
SNP_P4_67898_927931	NC_021164.1	Ca_kabuli_chr05	927931	TT	CC	1946839240
SNP_P4_67899_930756	NC_021164.1	Ca_kabuli_chr05	930756	AA	TT	1946839242
SNP_P4_67900_930809	NC_021164.1	Ca_kabuli_chr05	930809	AA	GG	1946839244
SNP_P4_67901_931154	NC_021164.1	Ca_kabuli_chr05	931154	CC	TT	1946839246
SNP_P4_67902_940525	NC_021164.1	Ca_kabuli_chr05	940525	TT	GG	1946839248
SNP_P4_67903_944744	NC_021164.1	Ca_kabuli_chr05	944744	GG	AA	1946839250
SNP_P4_67904_944816	NC_021164.1	Ca_kabuli_chr05	944816	GG	TT	1946839252
SNP_P4_67905_951708	NC_021164.1	Ca_kabuli_chr05	951708	AA	GG	1946839254
SNP_P4_67907_984608	NC_021164.1	Ca_kabuli_chr05	984608	CC	TT	1946839256
SNP_P4_67908_984610	NC_021164.1	Ca_kabuli_chr05	984610	TT	CC	1946839258
SNP_P4_67909_988742	NC_021164.1	Ca_kabuli_chr05	988742	TT	CC	1946839260
SNP_P4_67911_1001792	NC_021164.1	Ca_kabuli_chr05	1001792	AA	GG	1946839262
SNP_P4_67912_1001803	NC_021164.1	Ca_kabuli_chr05	1001803	GG	AA	1946839264
SNP_P4_67913_1001814	NC_021164.1	Ca_kabuli_chr05	1001814	TT	CC	1946839266
SNP_P4_67914_1001817	NC_021164.1	Ca_kabuli_chr05	1001817	GG	AA	1946839268
SNP_P4_67915_1001823	NC_021164.1	Ca_kabuli_chr05	1001823	AA	TT	1946839270
SNP_P4_67916_1001839	NC_021164.1	Ca_kabuli_chr05	1001839	TT	CC	1946839272
SNP_P4_67917_1001840	NC_021164.1	Ca_kabuli_chr05	1001840	TT	CC	1946839274

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_67919_1001848	NC_021164.1	Ca_kabuli_chr05	1001848	AA	TT	1946839278
SNP_P4_67920_1001851	NC_021164.1	Ca_kabuli_chr05	1001851	AA	CC	1946839280
SNP_P4_67921_1001852	NC_021164.1	Ca_kabuli_chr05	1001852	AA	GG	1946839281
SNP_P4_67922_1001853	NC_021164.1	Ca_kabuli_chr05	1001853	GG	AA	1946839283
SNP_P4_67923_1009705	NC_021164.1	Ca_kabuli_chr05	1009705	AA	CC	1946839285
SNP_P4_67924_1009715	NC_021164.1	Ca_kabuli_chr05	1009715	TT	CC	1946839287
SNP_P4_67925_1009787	NC_021164.1	Ca_kabuli_chr05	1009787	GG	AA	1946839289
SNP_P4_67926_1010416	NC_021164.1	Ca_kabuli_chr05	1010416	GG	TT	1946839291
SNP_P4_67927_1011998	NC_021164.1	Ca_kabuli_chr05	1011998	GG	AA	1946839293
SNP_P4_67928_1012077	NC_021164.1	Ca_kabuli_chr05	1012077	TT	CC	1946839295
SNP_P4_67929_1012080	NC_021164.1	Ca_kabuli_chr05	1012080	AA	GG	1946839297
SNP_P4_67930_1012193	NC_021164.1	Ca_kabuli_chr05	1012193	CC	TT	1946839299
SNP_P4_67931_1012338	NC_021164.1	Ca_kabuli_chr05	1012338	CC	TT	1946839301
SNP_P4_67932_1012410	NC_021164.1	Ca_kabuli_chr05	1012410	GG	AA	1946839303
SNP_P4_67933_1012428	NC_021164.1	Ca_kabuli_chr05	1012428	TT	CC	1946839305
SNP_P4_67934_1018509	NC_021164.1	Ca_kabuli_chr05	1018509	GG	AA	1946839307
SNP_P4_67936_1024293	NC_021164.1	Ca_kabuli_chr05	1024293	GG	AA	1946839308
SNP_P4_67937_1024317	NC_021164.1	Ca_kabuli_chr05	1024317	TT	CC	1946839310
SNP_P4_67938_1027481	NC_021164.1	Ca_kabuli_chr05	1027481	CC	AA	1946839312
SNP_P4_67939_1027782	NC_021164.1	Ca_kabuli_chr05	1027782	TT	CC	1946839314
SNP_P4_67941_1030091	NC_021164.1	Ca_kabuli_chr05	1030091	AA	GG	1946839316
SNP_P4_67942_1030120	NC_021164.1	Ca_kabuli_chr05	1030120	GG	AA	1946839318
SNP_P4_67943_1030189	NC_021164.1	Ca_kabuli_chr05	1030189	TT	CC	1946839320
SNP_P4_67944_1033120	NC_021164.1	Ca_kabuli_chr05	1033120	CC	TT	1946839322
SNP_P4_67945_1033524	NC_021164.1	Ca_kabuli_chr05	1033524	TT	CC	1946839324
SNP_P4_67946_1033570	NC_021164.1	Ca_kabuli_chr05	1033570	CC	TT	1946839326
SNP_P4_67947_1037037	NC_021164.1	Ca_kabuli_chr05	1037037	CC	TT	1946839329
SNP_P4_67948_1038624	NC_021164.1	Ca_kabuli_chr05	1038624	TT	CC	1946839331
SNP_P4_67949_1038839	NC_021164.1	Ca_kabuli_chr05	1038839	TT	CC	1946839333
SNP_P4_67950_1038849	NC_021164.1	Ca_kabuli_chr05	1038849	CC	TT	1946839335
SNP_P4_67951_1038953	NC_021164.1	Ca_kabuli_chr05	1038953	GG	AA	1946839337
SNP_P4_67952_1039005	NC_021164.1	Ca_kabuli_chr05	1039005	TT	GG	1946839339
SNP_P4_67953_1065240	NC_021164.1	Ca_kabuli_chr05	1065240	GG	AA	1946839341
SNP_P4_67954_1065457	NC_021164.1	Ca_kabuli_chr05	1065457	TT	CC	1946839343
SNP_P4_67955_1065458	NC_021164.1	Ca_kabuli_chr05	1065458	CC	TT	1946839345
SNP_P4_67956_1065481	NC_021164.1	Ca_kabuli_chr05	1065481	TT	CC	1946839347
SNP_P4_67957_1065523	NC_021164.1	Ca_kabuli_chr05	1065523	TT	CC	1946839349
SNP_P4_67958_1065536	NC_021164.1	Ca_kabuli_chr05	1065536	CC	TT	1946839351
SNP_P4_67960_1126429	NC_021164.1	Ca_kabuli_chr05	1126429	GG	AA	1946839353
SNP_P4_67961_1126452	NC_021164.1	Ca_kabuli_chr05	1126452	TT	AA	1946839355
SNP_P4_67963_1136826	NC_021164.1	Ca_kabuli_chr05	1136826	CC	AA	1946839357

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_67965_1139172	NC_021164.1	Ca_kabuli_chr05	1139172	CC	TT	1946839361
SNP_P4_67966_1139464	NC_021164.1	Ca_kabuli_chr05	1139464	GG	AA	1946839363
SNP_P4_67967_1143538	NC_021164.1	Ca_kabuli_chr05	1143538	AA	GG	1946839365
SNP_P4_67968_1151011	NC_021164.1	Ca_kabuli_chr05	1151011	AA	GG	1946839367
SNP_P4_67969_1151024	NC_021164.1	Ca_kabuli_chr05	1151024	AA	GG	1946839369
SNP_P4_67970_1151028	NC_021164.1	Ca_kabuli_chr05	1151028	TT	CC	1946839371
SNP_P4_67971_1159999	NC_021164.1	Ca_kabuli_chr05	1159999	CC	TT	1946839373
SNP_P4_67972_1160002	NC_021164.1	Ca_kabuli_chr05	1160002	CC	TT	1946839375
SNP_P4_67973_1160008	NC_021164.1	Ca_kabuli_chr05	1160008	CC	TT	1946839377
SNP_P4_67974_1162997	NC_021164.1	Ca_kabuli_chr05	1162997	GG	AA	1946839379
SNP_P4_67975_1162998	NC_021164.1	Ca_kabuli_chr05	1162998	TT	AA	1946839381
SNP_P4_67976_1171919	NC_021164.1	Ca_kabuli_chr05	1171919	CC	AA	1946839383
SNP_P4_67977_1172000	NC_021164.1	Ca_kabuli_chr05	1172000	CC	AA	1946839385
SNP_P4_67978_1172023	NC_021164.1	Ca_kabuli_chr05	1172023	CC	TT	1946839388
SNP_P4_67979_1172038	NC_021164.1	Ca_kabuli_chr05	1172038	TT	CC	1946839390
SNP_P4_67980_1174416	NC_021164.1	Ca_kabuli_chr05	1174416	CC	TT	1946839392
SNP_P4_67981_1174566	NC_021164.1	Ca_kabuli_chr05	1174566	TT	GG	1946839394
SNP_P4_67982_1174583	NC_021164.1	Ca_kabuli_chr05	1174583	GG	AA	1946839396
SNP_P4_67983_1176384	NC_021164.1	Ca_kabuli_chr05	1176384	CC	AA	1946839398
SNP_P4_67984_1176399	NC_021164.1	Ca_kabuli_chr05	1176399	AA	GG	1946839400
SNP_P4_67985_1189808	NC_021164.1	Ca_kabuli_chr05	1189808	TT	AA	1946839402
SNP_P4_67986_1230208	NC_021164.1	Ca_kabuli_chr05	1230208	AA	TT	1946839404
SNP_P4_67987_1230217	NC_021164.1	Ca_kabuli_chr05	1230217	AA	CC	1946839406
SNP_P4_67988_1230375	NC_021164.1	Ca_kabuli_chr05	1230375	TT	CC	1946839408
SNP_P4_67989_1230531	NC_021164.1	Ca_kabuli_chr05	1230531	TT	GG	1946839410
SNP_P4_67992_1247250	NC_021164.1	Ca_kabuli_chr05	1247250	AA	TT	1946839412
SNP_P4_67993_1247253	NC_021164.1	Ca_kabuli_chr05	1247253	AA	GG	1946839414
SNP_P4_67994_1260682	NC_021164.1	Ca_kabuli_chr05	1260682	CC	AA	1946839416
SNP_P4_67995_1263552	NC_021164.1	Ca_kabuli_chr05	1263552	GG	AA	1946839418
SNP_P4_67997_1275420	NC_021164.1	Ca_kabuli_chr05	1275420	GG	AA	1946839420
SNP_P4_67998_1288248	NC_021164.1	Ca_kabuli_chr05	1288248	AA	GG	1946839422
SNP_P4_67999_1330128	NC_021164.1	Ca_kabuli_chr05	1330128	TT	AA	1946839423
SNP_P4_68000_1330174	NC_021164.1	Ca_kabuli_chr05	1330174	TT	CC	1946839425
SNP_P4_68001_1330201	NC_021164.1	Ca_kabuli_chr05	1330201	TT	CC	1946839427
SNP_P4_68002_1330497	NC_021164.1	Ca_kabuli_chr05	1330497	GG	CC	1946839429
SNP_P4_68003_1330499	NC_021164.1	Ca_kabuli_chr05	1330499	TT	GG	1946839431
SNP_P4_68004_1330524	NC_021164.1	Ca_kabuli_chr05	1330524	CC	TT	1946839433
SNP_P4_68005_1330752	NC_021164.1	Ca_kabuli_chr05	1330752	TT	CC	1946839435
SNP_P4_68006_1330754	NC_021164.1	Ca_kabuli_chr05	1330754	GG	AA	1946839437
SNP_P4_68007_1334409	NC_021164.1	Ca_kabuli_chr05	1334409	AA	TT	1946839439
SNP_P4_68008_1336047	NC_021164.1	Ca_kabuli_chr05	1336047	TT	CC	1946839441

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_68010_1369615	NC_021164.1	Ca_kabuli_chr05	1369615	TT	CC	1946839445
SNP_P4_68011_1369626	NC_021164.1	Ca_kabuli_chr05	1369626	AA	GG	1946839447
SNP_P4_68012_1369629	NC_021164.1	Ca_kabuli_chr05	1369629	AA	CC	1946839449
SNP_P4_68013_1372095	NC_021164.1	Ca_kabuli_chr05	1372095	GG	AA	1946839451
SNP_P4_68014_1377754	NC_021164.1	Ca_kabuli_chr05	1377754	CC	AA	1946839452
SNP_P4_68015_1377765	NC_021164.1	Ca_kabuli_chr05	1377765	AA	GG	1946839454
SNP_P4_68017_1377951	NC_021164.1	Ca_kabuli_chr05	1377951	TT	CC	1946839456
SNP_P4_68018_1378008	NC_021164.1	Ca_kabuli_chr05	1378008	CC	TT	1946839458
SNP_P4_68019_1378191	NC_021164.1	Ca_kabuli_chr05	1378191	GG	AA	1946839460
SNP_P4_68020_1378261	NC_021164.1	Ca_kabuli_chr05	1378261	GG	TT	1946839462
SNP_P4_68021_1378289	NC_021164.1	Ca_kabuli_chr05	1378289	TT	GG	1946839464
SNP_P4_68022_1378309	NC_021164.1	Ca_kabuli_chr05	1378309	GG	AA	1946839466
SNP_P4_68023_1378313	NC_021164.1	Ca_kabuli_chr05	1378313	CC	TT	1946839468
SNP_P4_68024_1378363	NC_021164.1	Ca_kabuli_chr05	1378363	TT	CC	1946839470
SNP_P4_68025_1378381	NC_021164.1	Ca_kabuli_chr05	1378381	CC	TT	1946839472
SNP_P4_68026_1378384	NC_021164.1	Ca_kabuli_chr05	1378384	AA	GG	1946839474
SNP_P4_68027_1380488	NC_021164.1	Ca_kabuli_chr05	1380488	GG	AA	1946839476
SNP_P4_68028_1381091	NC_021164.1	Ca_kabuli_chr05	1381091	AA	GG	1946839478
SNP_P4_68029_1381130	NC_021164.1	Ca_kabuli_chr05	1381130	AA	GG	1946839480
SNP_P4_68030_1381184	NC_021164.1	Ca_kabuli_chr05	1381184	AA	GG	1946839482
SNP_P4_68031_1381542	NC_021164.1	Ca_kabuli_chr05	1381542	GG	AA	1946839484
SNP_P4_68032_1388469	NC_021164.1	Ca_kabuli_chr05	1388469	AA	GG	1946839486
SNP_P4_68034_1391113	NC_021164.1	Ca_kabuli_chr05	1391113	CC	GG	1946839488
SNP_P4_68035_1421670	NC_021164.1	Ca_kabuli_chr05	1421670	CC	TT	1946839490
SNP_P4_68036_1421695	NC_021164.1	Ca_kabuli_chr05	1421695	GG	CC	1946839492
SNP_P4_68037_1424820	NC_021164.1	Ca_kabuli_chr05	1424820	AA	GG	1946839494
SNP_P4_68038_1441609	NC_021164.1	Ca_kabuli_chr05	1441609	AA	TT	1946839496
SNP_P4_68039_1441667	NC_021164.1	Ca_kabuli_chr05	1441667	GG	AA	1946839498
SNP_P4_68040_1444270	NC_021164.1	Ca_kabuli_chr05	1444270	TT	CC	1946839500
SNP_P4_68041_1444273	NC_021164.1	Ca_kabuli_chr05	1444273	TT	AA	1946839502
SNP_P4_68042_1447621	NC_021164.1	Ca_kabuli_chr05	1447621	AA	TT	1946839504
SNP_P4_68044_1454083	NC_021164.1	Ca_kabuli_chr05	1454083	TT	CC	1946839505
SNP_P4_68045_1457040	NC_021164.1	Ca_kabuli_chr05	1457040	AA	GG	1946839507
SNP_P4_68046_1457054	NC_021164.1	Ca_kabuli_chr05	1457054	CC	AA	1946839509
SNP_P4_68047_1457222	NC_021164.1	Ca_kabuli_chr05	1457222	AA	GG	1946839511
SNP_P4_68048_1457257	NC_021164.1	Ca_kabuli_chr05	1457257	CC	TT	1946839513
SNP_P4_68049_1457460	NC_021164.1	Ca_kabuli_chr05	1457460	CC	TT	1946839515
SNP_P4_68050_1457500	NC_021164.1	Ca_kabuli_chr05	1457500	AA	CC	1946839517
SNP_P4_68051_1457506	NC_021164.1	Ca_kabuli_chr05	1457506	CC	TT	1946839519
SNP_P4_68052_1457528	NC_021164.1	Ca_kabuli_chr05	1457528	TT	CC	1946839521
SNP_P4_68053_1488719	NC_021164.1	Ca_kabuli_chr05	1488719	GG	AA	1946839523

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_68055_1497217	NC_021164.1	Ca_kabuli_chr05	1497217	TT	CC	1946839527
SNP_P4_68056_1501308	NC_021164.1	Ca_kabuli_chr05	1501308	TT	CC	1946839529
SNP_P4_68057_1501309	NC_021164.1	Ca_kabuli_chr05	1501309	AA	TT	1946839531
SNP_P4_68058_1501381	NC_021164.1	Ca_kabuli_chr05	1501381	TT	CC	1946839533
SNP_P4_68059_1501641	NC_021164.1	Ca_kabuli_chr05	1501641	TT	CC	1946839535
SNP_P4_68060_1509637	NC_021164.1	Ca_kabuli_chr05	1509637	GG	AA	1946839537
SNP_P4_68062_1510764	NC_021164.1	Ca_kabuli_chr05	1510764	TT	CC	1946839539
SNP_P4_68063_1510776	NC_021164.1	Ca_kabuli_chr05	1510776	GG	AA	1946839541
SNP_P4_68064_1510784	NC_021164.1	Ca_kabuli_chr05	1510784	CC	TT	1946839543
SNP_P4_68065_1510842	NC_021164.1	Ca_kabuli_chr05	1510842	CC	TT	1946839545
SNP_P4_68066_1511058	NC_021164.1	Ca_kabuli_chr05	1511058	AA	GG	1946839547
SNP_P4_68067_1511105	NC_021164.1	Ca_kabuli_chr05	1511105	GG	TT	1946839549
SNP_P4_68068_1511107	NC_021164.1	Ca_kabuli_chr05	1511107	GG	AA	1946839551
SNP_P4_68069_1511132	NC_021164.1	Ca_kabuli_chr05	1511132	CC	TT	1946839553
SNP_P4_68070_1511146	NC_021164.1	Ca_kabuli_chr05	1511146	AA	CC	1946839555
SNP_P4_68071_1511182	NC_021164.1	Ca_kabuli_chr05	1511182	AA	GG	1946839557
SNP_P4_68072_1511186	NC_021164.1	Ca_kabuli_chr05	1511186	GG	AA	1946839559
SNP_P4_68073_1511213	NC_021164.1	Ca_kabuli_chr05	1511213	TT	AA	1946839561
SNP_P4_68074_1520951	NC_021164.1	Ca_kabuli_chr05	1520951	AA	GG	1946839563
SNP_P4_68075_1520970	NC_021164.1	Ca_kabuli_chr05	1520970	GG	TT	1946839565
SNP_P4_68077_1521431	NC_021164.1	Ca_kabuli_chr05	1521431	GG	AA	1946839567
SNP_P4_68078_1521550	NC_021164.1	Ca_kabuli_chr05	1521550	TT	CC	1946839569
SNP_P4_68079_1521708	NC_021164.1	Ca_kabuli_chr05	1521708	AA	GG	1946839571
SNP_P4_68080_1526713	NC_021164.1	Ca_kabuli_chr05	1526713	CC	TT	1946839574
SNP_P4_68081_1526729	NC_021164.1	Ca_kabuli_chr05	1526729	AA	TT	1946839575
SNP_P4_68083_1526747	NC_021164.1	Ca_kabuli_chr05	1526747	GG	TT	1946839577
SNP_P4_68084_1526756	NC_021164.1	Ca_kabuli_chr05	1526756	CC	TT	1946839579
SNP_P4_68085_1526793	NC_021164.1	Ca_kabuli_chr05	1526793	AA	GG	1946839582
SNP_P4_68086_1528101	NC_021164.1	Ca_kabuli_chr05	1528101	AA	GG	1946839584
SNP_P4_68087_1528413	NC_021164.1	Ca_kabuli_chr05	1528413	CC	TT	1946839586
SNP_P4_68088_1528667	NC_021164.1	Ca_kabuli_chr05	1528667	CC	TT	1946839588
SNP_P4_68089_1528673	NC_021164.1	Ca_kabuli_chr05	1528673	TT	GG	1946839589
SNP_P4_68090_1528702	NC_021164.1	Ca_kabuli_chr05	1528702	CC	TT	1946839591
SNP_P4_68091_1535157	NC_021164.1	Ca_kabuli_chr05	1535157	TT	CC	1946839593
SNP_P4_68092_1535169	NC_021164.1	Ca_kabuli_chr05	1535169	CC	AA	1946839595
SNP_P4_68093_1535311	NC_021164.1	Ca_kabuli_chr05	1535311	AA	CC	1946839597
SNP_P4_68094_1535360	NC_021164.1	Ca_kabuli_chr05	1535360	TT	AA	1946839599
SNP_P4_68095_1535373	NC_021164.1	Ca_kabuli_chr05	1535373	AA	GG	1946839601
SNP_P4_68098_1591247	NC_021164.1	Ca_kabuli_chr05	1591247	AA	CC	1946839603
SNP_P4_68099_1601073	NC_021164.1	Ca_kabuli_chr05	1601073	GG	TT	1946839605
SNP_P4_68100_1606354	NC_021164.1	Ca_kabuli_chr05	1606354	AA	TT	1946839607

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_68101_1629526	NC_021164.1	Ca_kabuli_chr05	1629526	TT	AA	1946839609
SNP_P4_68102_1633688	NC_021164.1	Ca_kabuli_chr05	1633688	GG	AA	1946839611
SNP_P4_68104_1679521	NC_021164.1	Ca_kabuli_chr05	1679521	CC	TT	1946839613
SNP_P4_68105_1679540	NC_021164.1	Ca_kabuli_chr05	1679540	GG	CC	1946839615
SNP_P4_68106_1679644	NC_021164.1	Ca_kabuli_chr05	1679644	GG	AA	1946839617
SNP_P4_68107_1679645	NC_021164.1	Ca_kabuli_chr05	1679645	GG	TT	1946839619
SNP_P4_68108_1679652	NC_021164.1	Ca_kabuli_chr05	1679652	CC	TT	1946839621
SNP_P4_68109_1679665	NC_021164.1	Ca_kabuli_chr05	1679665	AA	TT	1946839622
SNP_P4_68110_1679817	NC_021164.1	Ca_kabuli_chr05	1679817	GG	TT	1946839624
SNP_P4_68111_1679832	NC_021164.1	Ca_kabuli_chr05	1679832	GG	TT	1946839626
SNP_P4_68112_1679881	NC_021164.1	Ca_kabuli_chr05	1679881	AA	TT	1946839628
SNP_P4_68113_1679966	NC_021164.1	Ca_kabuli_chr05	1679966	AA	CC	1946839630
SNP_P4_68114_1681163	NC_021164.1	Ca_kabuli_chr05	1681163	TT	CC	1946839632
SNP_P4_68115_1681529	NC_021164.1	Ca_kabuli_chr05	1681529	GG	AA	1946839635
SNP_P4_68116_1681558	NC_021164.1	Ca_kabuli_chr05	1681558	AA	CC	1946839637
SNP_P4_68117_1681585	NC_021164.1	Ca_kabuli_chr05	1681585	TT	CC	1946839639
SNP_P4_68118_1687804	NC_021164.1	Ca_kabuli_chr05	1687804	GG	AA	1946839641
SNP_P4_68119_1706471	NC_021164.1	Ca_kabuli_chr05	1706471	TT	GG	1946839642
SNP_P4_68120_1713353	NC_021164.1	Ca_kabuli_chr05	1713353	CC	AA	1946839643
SNP_P4_68121_1713439	NC_021164.1	Ca_kabuli_chr05	1713439	AA	GG	1946839644
SNP_P4_68122_1719503	NC_021164.1	Ca_kabuli_chr05	1719503	GG	AA	1946839645
SNP_P4_68123_1719527	NC_021164.1	Ca_kabuli_chr05	1719527	TT	CC	1946839646
SNP_P4_68124_1719528	NC_021164.1	Ca_kabuli_chr05	1719528	TT	AA	1946839647
SNP_P4_68125_1763507	NC_021164.1	Ca_kabuli_chr05	1763507	AA	TT	1946839649
SNP_P4_68126_1770168	NC_021164.1	Ca_kabuli_chr05	1770168	TT	CC	1946839651
SNP_P4_68127_1770300	NC_021164.1	Ca_kabuli_chr05	1770300	TT	CC	1946839653
SNP_P4_68128_1770556	NC_021164.1	Ca_kabuli_chr05	1770556	TT	AA	1946839655
SNP_P4_68130_1780075	NC_021164.1	Ca_kabuli_chr05	1780075	CC	TT	1946839657
SNP_P4_68131_1780096	NC_021164.1	Ca_kabuli_chr05	1780096	AA	GG	1946839659
SNP_P4_68132_1781411	NC_021164.1	Ca_kabuli_chr05	1781411	GG	AA	1946839661
SNP_P4_68133_1781413	NC_021164.1	Ca_kabuli_chr05	1781413	CC	TT	1946839663
SNP_P4_68135_1808860	NC_021164.1	Ca_kabuli_chr05	1808860	TT	CC	1946839666
SNP_P4_68136_1809399	NC_021164.1	Ca_kabuli_chr05	1809399	AA	GG	1946839668
SNP_P4_68137_1812571	NC_021164.1	Ca_kabuli_chr05	1812571	AA	CC	1946839670
SNP_P4_68138_1813406	NC_021164.1	Ca_kabuli_chr05	1813406	TT	GG	1946839672
SNP_P4_68139_1814489	NC_021164.1	Ca_kabuli_chr05	1814489	GG	AA	1946839674
SNP_P4_68140_1814836	NC_021164.1	Ca_kabuli_chr05	1814836	TT	GG	1946839676
SNP_P4_68141_1818299	NC_021164.1	Ca_kabuli_chr05	1818299	AA	GG	1946839678
SNP_P4_68142_1819162	NC_021164.1	Ca_kabuli_chr05	1819162	GG	CC	1946839680
SNP_P4_68143_1819163	NC_021164.1	Ca_kabuli_chr05	1819163	TT	AA	1946839682
SNP_P4_68144_1819315	NC_021164.1	Ca_kabuli_chr05	1819315	TT	CC	1946839684
SNP_P4_68145_1819410	NC_021164.1	Ca_kabuli_chr05	1819410	AA	TT	1946839686

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_68146_1819444	NC_021164.1	Ca_kabuli_chr05	1819444	CC	TT	1946839688
SNP_P4_68147_1819471	NC_021164.1	Ca_kabuli_chr05	1819471	TT	AA	1946839690
SNP_P4_68148_1819778	NC_021164.1	Ca_kabuli_chr05	1819778	CC	TT	1946839692
SNP_P4_68149_1819781	NC_021164.1	Ca_kabuli_chr05	1819781	GG	TT	1946839694
SNP_P4_68150_1819824	NC_021164.1	Ca_kabuli_chr05	1819824	CC	GG	1946839696
SNP_P4_68151_1819829	NC_021164.1	Ca_kabuli_chr05	1819829	AA	CC	1946839698
SNP_P4_68152_1819846	NC_021164.1	Ca_kabuli_chr05	1819846	TT	AA	1946839700
SNP_P4_68153_1825425	NC_021164.1	Ca_kabuli_chr05	1825425	CC	GG	1946839702
SNP_P4_68154_1825439	NC_021164.1	Ca_kabuli_chr05	1825439	TT	CC	1946839704
SNP_P4_68155_1825706	NC_021164.1	Ca_kabuli_chr05	1825706	AA	GG	1946839706
SNP_P4_68156_1827517	NC_021164.1	Ca_kabuli_chr05	1827517	GG	CC	1946839708
SNP_P4_68157_1828535	NC_021164.1	Ca_kabuli_chr05	1828535	AA	GG	1946839710
SNP_P4_68158_1828588	NC_021164.1	Ca_kabuli_chr05	1828588	AA	CC	1946839712
SNP_P4_68159_1829280	NC_021164.1	Ca_kabuli_chr05	1829280	CC	GG	1946839714
SNP_P4_68160_1829568	NC_021164.1	Ca_kabuli_chr05	1829568	GG	AA	1946839716
SNP_P4_68161_1829577	NC_021164.1	Ca_kabuli_chr05	1829577	AA	TT	1946839718
SNP_P4_68162_1829595	NC_021164.1	Ca_kabuli_chr05	1829595	TT	AA	1946839720
SNP_P4_68163_1829597	NC_021164.1	Ca_kabuli_chr05	1829597	TT	CC	1946839722
SNP_P4_68164_1829609	NC_021164.1	Ca_kabuli_chr05	1829609	AA	GG	1946839724
SNP_P4_68165_1829610	NC_021164.1	Ca_kabuli_chr05	1829610	TT	GG	1946839726
SNP_P4_68166_1829616	NC_021164.1	Ca_kabuli_chr05	1829616	GG	AA	1946839728
SNP_P4_68167_1829674	NC_021164.1	Ca_kabuli_chr05	1829674	TT	GG	1946839730
SNP_P4_68168_1829682	NC_021164.1	Ca_kabuli_chr05	1829682	TT	GG	1946839732
SNP_P4_68169_1829712	NC_021164.1	Ca_kabuli_chr05	1829712	AA	TT	1946839734
SNP_P4_68170_1829716	NC_021164.1	Ca_kabuli_chr05	1829716	CC	TT	1946839737
SNP_P4_68171_1830816	NC_021164.1	Ca_kabuli_chr05	1830816	TT	CC	1946839739
SNP_P4_68172_1832827	NC_021164.1	Ca_kabuli_chr05	1832827	AA	CC	1946839741
SNP_P4_68173_1833191	NC_021164.1	Ca_kabuli_chr05	1833191	AA	CC	1946839743
SNP_P4_68174_1836026	NC_021164.1	Ca_kabuli_chr05	1836026	CC	TT	1946839745
SNP_P4_68175_1837567	NC_021164.1	Ca_kabuli_chr05	1837567	CC	TT	1946839747
SNP_P4_68176_1839363	NC_021164.1	Ca_kabuli_chr05	1839363	CC	AA	1946839750
SNP_P4_68177_1839395	NC_021164.1	Ca_kabuli_chr05	1839395	GG	AA	1946839752
SNP_P4_68178_1839403	NC_021164.1	Ca_kabuli_chr05	1839403	TT	AA	1946839754
SNP_P4_68179_1839431	NC_021164.1	Ca_kabuli_chr05	1839431	GG	CC	1946839756
SNP_P4_68180_1839437	NC_021164.1	Ca_kabuli_chr05	1839437	AA	TT	1946839758
SNP_P4_68181_1839441	NC_021164.1	Ca_kabuli_chr05	1839441	TT	AA	1946839760
SNP_P4_68182_1839483	NC_021164.1	Ca_kabuli_chr05	1839483	CC	TT	1946839762
SNP_P4_68183_1863770	NC_021164.1	Ca_kabuli_chr05	1863770	AA	TT	1946839764
SNP_P4_68184_1863775	NC_021164.1	Ca_kabuli_chr05	1863775	CC	AA	1946839766
SNP_P4_68185_1863804	NC_021164.1	Ca_kabuli_chr05	1863804	AA	TT	1946839769
SNP_P4_68186_1864412	NC_021164.1	Ca_kabuli_chr05	1864412	CC	TT	1946839771
SNP_P4_68187_1875027	NC_021164.1	Ca_kabuli_chr05	1875027	GG	AA	1946839773

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_68188_1875913	NC_021164.1	Ca_kabuli_chr05	1875913	AA	GG	1946839775
SNP_P4_68189_1875921	NC_021164.1	Ca_kabuli_chr05	1875921	TT	CC	1946839777
SNP_P4_68190_1876003	NC_021164.1	Ca_kabuli_chr05	1876003	AA	GG	1946839779
SNP_P4_68191_1876006	NC_021164.1	Ca_kabuli_chr05	1876006	AA	GG	1946839781
SNP_P4_68192_1876046	NC_021164.1	Ca_kabuli_chr05	1876046	GG	TT	1946839783
SNP_P4_68193_1876054	NC_021164.1	Ca_kabuli_chr05	1876054	GG	AA	1946839785
SNP_P4_68194_1876075	NC_021164.1	Ca_kabuli_chr05	1876075	GG	AA	1946839787
SNP_P4_68195_1876080	NC_021164.1	Ca_kabuli_chr05	1876080	AA	GG	1946839789
SNP_P4_68196_1876108	NC_021164.1	Ca_kabuli_chr05	1876108	CC	TT	1946839791
SNP_P4_68197_1876231	NC_021164.1	Ca_kabuli_chr05	1876231	GG	AA	1946839793
SNP_P4_68198_1876261	NC_021164.1	Ca_kabuli_chr05	1876261	GG	CC	1946839795
SNP_P4_68199_1876286	NC_021164.1	Ca_kabuli_chr05	1876286	GG	AA	1946839797
SNP_P4_68200_1876475	NC_021164.1	Ca_kabuli_chr05	1876475	AA	GG	1946839799
SNP_P4_68201_1878876	NC_021164.1	Ca_kabuli_chr05	1878876	GG	CC	1946839802
SNP_P4_68202_1879422	NC_021164.1	Ca_kabuli_chr05	1879422	GG	AA	1946839804
SNP_P4_68203_1879452	NC_021164.1	Ca_kabuli_chr05	1879452	GG	CC	1946839806
SNP_P4_68204_1879820	NC_021164.1	Ca_kabuli_chr05	1879820	AA	GG	1946839808
SNP_P4_68205_1881703	NC_021164.1	Ca_kabuli_chr05	1881703	AA	GG	1946839810
SNP_P4_68206_1881716	NC_021164.1	Ca_kabuli_chr05	1881716	GG	CC	1946839813
SNP_P4_68207_1881974	NC_021164.1	Ca_kabuli_chr05	1881974	AA	GG	1946839815
SNP_P4_68208_1887479	NC_021164.1	Ca_kabuli_chr05	1887479	TT	AA	1946839817
SNP_P4_68209_1887646	NC_021164.1	Ca_kabuli_chr05	1887646	GG	AA	1946839819
SNP_P4_68210_1887780	NC_021164.1	Ca_kabuli_chr05	1887780	CC	TT	1946839821
SNP_P4_68211_1887808	NC_021164.1	Ca_kabuli_chr05	1887808	TT	GG	1946839823
SNP_P4_68212_1887875	NC_021164.1	Ca_kabuli_chr05	1887875	AA	TT	1946839825
SNP_P4_68213_1887879	NC_021164.1	Ca_kabuli_chr05	1887879	CC	TT	1946839827
SNP_P4_68214_1887880	NC_021164.1	Ca_kabuli_chr05	1887880	AA	TT	1946839830
SNP_P4_68215_1887889	NC_021164.1	Ca_kabuli_chr05	1887889	TT	AA	1946839832
SNP_P4_68216_1887890	NC_021164.1	Ca_kabuli_chr05	1887890	GG	CC	1946839834
SNP_P4_68217_1887898	NC_021164.1	Ca_kabuli_chr05	1887898	TT	AA	1946839836
SNP_P4_68218_1887971	NC_021164.1	Ca_kabuli_chr05	1887971	CC	TT	1946839838
SNP_P4_68219_1888027	NC_021164.1	Ca_kabuli_chr05	1888027	GG	CC	1946839840
SNP_P4_68220_1888049	NC_021164.1	Ca_kabuli_chr05	1888049	CC	AA	1946839842
SNP_P4_68221_1888368	NC_021164.1	Ca_kabuli_chr05	1888368	CC	TT	1946839844
SNP_P4_68222_1899037	NC_021164.1	Ca_kabuli_chr05	1899037	TT	CC	1946839846
SNP_P4_68223_1899050	NC_021164.1	Ca_kabuli_chr05	1899050	CC	TT	1946839848
SNP_P4_68224_1899051	NC_021164.1	Ca_kabuli_chr05	1899051	TT	CC	1946839850
SNP_P4_68225_1899081	NC_021164.1	Ca_kabuli_chr05	1899081	GG	AA	1946839852
SNP_P4_68226_1899105	NC_021164.1	Ca_kabuli_chr05	1899105	TT	AA	1946839854
SNP_P4_68227_1899471	NC_021164.1	Ca_kabuli_chr05	1899471	AA	TT	1946839856
SNP_P4_68228_1899530	NC_021164.1	Ca_kabuli_chr05	1899530	TT	CC	1946839858
SNP_P4_68229_1902831	NC_021164.1	Ca_kabuli_chr05	1902831	CC	TT	1946839860

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_68231_1905744	NC_021164.1	Ca_kabuli_chr05	1905744	CC	AA	1946839862
SNP_P4_68232_1907896	NC_021164.1	Ca_kabuli_chr05	1907896	AA	TT	1946839864
SNP_P4_68233_1907946	NC_021164.1	Ca_kabuli_chr05	1907946	GG	CC	1946839866
SNP_P4_68234_1907967	NC_021164.1	Ca_kabuli_chr05	1907967	TT	AA	1946839868
SNP_P4_68235_1908012	NC_021164.1	Ca_kabuli_chr05	1908012	AA	GG	1946839870
SNP_P4_68236_1908242	NC_021164.1	Ca_kabuli_chr05	1908242	GG	AA	1946839872
SNP_P4_68237_1908273	NC_021164.1	Ca_kabuli_chr05	1908273	TT	CC	1946839874
SNP_P4_68238_1909959	NC_021164.1	Ca_kabuli_chr05	1909959	TT	CC	1946839876
SNP_P4_68239_1911394	NC_021164.1	Ca_kabuli_chr05	1911394	GG	CC	1946839878
SNP_P4_68240_1925675	NC_021164.1	Ca_kabuli_chr05	1925675	CC	TT	1946839880
SNP_P4_68241_1925719	NC_021164.1	Ca_kabuli_chr05	1925719	GG	AA	1946839882
SNP_P4_68242_1925741	NC_021164.1	Ca_kabuli_chr05	1925741	AA	CC	1946839884
SNP_P4_68243_1925863	NC_021164.1	Ca_kabuli_chr05	1925863	AA	GG	1946839886
SNP_P4_68244_1925976	NC_021164.1	Ca_kabuli_chr05	1925976	GG	CC	1946839888
SNP_P4_68245_1926016	NC_021164.1	Ca_kabuli_chr05	1926016	AA	CC	1946839890
SNP_P4_68246_1926041	NC_021164.1	Ca_kabuli_chr05	1926041	AA	GG	1946839892
SNP_P4_68247_1930902	NC_021164.1	Ca_kabuli_chr05	1930902	CC	TT	1946839894
SNP_P4_68248_1941298	NC_021164.1	Ca_kabuli_chr05	1941298	GG	AA	1946839896
SNP_P4_68249_1942387	NC_021164.1	Ca_kabuli_chr05	1942387	TT	CC	1946839898
SNP_P4_68250_1945468	NC_021164.1	Ca_kabuli_chr05	1945468	TT	CC	1946839900
SNP_P4_68251_1948472	NC_021164.1	Ca_kabuli_chr05	1948472	CC	TT	1946839902
SNP_P4_68252_1951010	NC_021164.1	Ca_kabuli_chr05	1951010	TT	CC	1946839904
SNP_P4_68253_1957957	NC_021164.1	Ca_kabuli_chr05	1957957	TT	CC	1946839906
SNP_P4_68254_1960624	NC_021164.1	Ca_kabuli_chr05	1960624	AA	GG	1946839908
SNP_P4_68255_1964862	NC_021164.1	Ca_kabuli_chr05	1964862	TT	CC	1946839910
SNP_P4_68256_1980117	NC_021164.1	Ca_kabuli_chr05	1980117	GG	TT	1946839912
SNP_P4_68257_1980329	NC_021164.1	Ca_kabuli_chr05	1980329	AA	GG	1946839914
SNP_P4_68258_1980943	NC_021164.1	Ca_kabuli_chr05	1980943	GG	CC	1946839916
SNP_P4_68259_1983501	NC_021164.1	Ca_kabuli_chr05	1983501	AA	CC	1946839918
SNP_P4_68260_1984841	NC_021164.1	Ca_kabuli_chr05	1984841	CC	TT	1946839920
SNP_P4_68261_1994562	NC_021164.1	Ca_kabuli_chr05	1994562	TT	CC	1946839922
SNP_P4_68262_1994663	NC_021164.1	Ca_kabuli_chr05	1994663	CC	TT	1946839924
SNP_P4_68263_1994738	NC_021164.1	Ca_kabuli_chr05	1994738	CC	GG	1946839926
SNP_P4_68264_1995023	NC_021164.1	Ca_kabuli_chr05	1995023	AA	TT	1946839928
SNP_P4_68265_1995129	NC_021164.1	Ca_kabuli_chr05	1995129	AA	TT	1946839930
SNP_P4_68266_1995157	NC_021164.1	Ca_kabuli_chr05	1995157	CC	GG	1946839932
SNP_P4_68267_1995279	NC_021164.1	Ca_kabuli_chr05	1995279	TT	AA	1946839934
SNP_P4_68268_1995414	NC_021164.1	Ca_kabuli_chr05	1995414	CC	TT	1946839936
SNP_P4_68270_2000474	NC_021164.1	Ca_kabuli_chr05	2000474	AA	GG	1946839938
SNP_P4_68271_2000494	NC_021164.1	Ca_kabuli_chr05	2000494	AA	GG	1946839940
SNP_P4_68272_2000569	NC_021164.1	Ca_kabuli_chr05	2000569	AA	TT	1946839942
SNP_P4_68273_2000590	NC_021164.1	Ca_kabuli_chr05	2000590	TT	CC	1946839944

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_68274_2000618	NC_021164.1	Ca_kabuli_chr05	2000618	AA	GG	1946839946
SNP_P4_68275_2000669	NC_021164.1	Ca_kabuli_chr05	2000669	CC	TT	1946839948
SNP_P4_68276_2000695	NC_021164.1	Ca_kabuli_chr05	2000695	AA	TT	1946839950
SNP_P4_68278_2002314	NC_021164.1	Ca_kabuli_chr05	2002314	TT	CC	1946839952
SNP_P4_68279_2002326	NC_021164.1	Ca_kabuli_chr05	2002326	TT	CC	1946839954
SNP_P4_68280_2002469	NC_021164.1	Ca_kabuli_chr05	2002469	GG	CC	1946839956
SNP_P4_68281_2002471	NC_021164.1	Ca_kabuli_chr05	2002471	TT	CC	1946839958
SNP_P4_68282_2006878	NC_021164.1	Ca_kabuli_chr05	2006878	AA	TT	1946839960
SNP_P4_68283_2007937	NC_021164.1	Ca_kabuli_chr05	2007937	TT	CC	1946839962
SNP_P4_68284_2008014	NC_021164.1	Ca_kabuli_chr05	2008014	GG	TT	1946839964
SNP_P4_68286_2008433	NC_021164.1	Ca_kabuli_chr05	2008433	TT	CC	1946839966
SNP_P4_68287_2008444	NC_021164.1	Ca_kabuli_chr05	2008444	AA	GG	1946839968
SNP_P4_68288_2008447	NC_021164.1	Ca_kabuli_chr05	2008447	TT	GG	1946839970
SNP_P4_68289_2008542	NC_021164.1	Ca_kabuli_chr05	2008542	TT	AA	1946839972
SNP_P4_68290_2008849	NC_021164.1	Ca_kabuli_chr05	2008849	TT	CC	1946839974
SNP_P4_68291_2008870	NC_021164.1	Ca_kabuli_chr05	2008870	AA	CC	1946839976
SNP_P4_68292_2008885	NC_021164.1	Ca_kabuli_chr05	2008885	TT	CC	1946839978
SNP_P4_68293_2008903	NC_021164.1	Ca_kabuli_chr05	2008903	CC	TT	1946839980
SNP_P4_68294_2009005	NC_021164.1	Ca_kabuli_chr05	2009005	TT	AA	1946839982
SNP_P4_68295_2009019	NC_021164.1	Ca_kabuli_chr05	2009019	GG	AA	1946839984
SNP_P4_68296_2017091	NC_021164.1	Ca_kabuli_chr05	2017091	AA	GG	1946839986
SNP_P4_68297_2017154	NC_021164.1	Ca_kabuli_chr05	2017154	CC	AA	1946839988
SNP_P4_68298_2018530	NC_021164.1	Ca_kabuli_chr05	2018530	AA	GG	1946839990
SNP_P4_68299_2018925	NC_021164.1	Ca_kabuli_chr05	2018925	TT	CC	1946839992
SNP_P4_68300_2019065	NC_021164.1	Ca_kabuli_chr05	2019065	AA	TT	1946839994
SNP_P4_68301_2019095	NC_021164.1	Ca_kabuli_chr05	2019095	GG	AA	1946839996
SNP_P4_68302_2019380	NC_021164.1	Ca_kabuli_chr05	2019380	GG	TT	1946839998
SNP_P4_68303_2031738	NC_021164.1	Ca_kabuli_chr05	2031738	CC	AA	1946839999
SNP_P4_68304_2034522	NC_021164.1	Ca_kabuli_chr05	2034522	GG	CC	1946840001
SNP_P4_68305_2034538	NC_021164.1	Ca_kabuli_chr05	2034538	AA	GG	1946840003
SNP_P4_68306_2043286	NC_021164.1	Ca_kabuli_chr05	2043286	GG	AA	1946840005
SNP_P4_68307_2043314	NC_021164.1	Ca_kabuli_chr05	2043314	AA	CC	1946840007
SNP_P4_68308_2043494	NC_021164.1	Ca_kabuli_chr05	2043494	CC	TT	1946840009
SNP_P4_68309_2084413	NC_021164.1	Ca_kabuli_chr05	2084413	GG	TT	1946840011
SNP_P4_68310_2096863	NC_021164.1	Ca_kabuli_chr05	2096863	AA	GG	1946840013
SNP_P4_68311_2097072	NC_021164.1	Ca_kabuli_chr05	2097072	AA	TT	1946840015
SNP_P4_68312_2097145	NC_021164.1	Ca_kabuli_chr05	2097145	AA	TT	1946840017
SNP_P4_68313_2097357	NC_021164.1	Ca_kabuli_chr05	2097357	AA	CC	1946840019
SNP_P4_68314_2098889	NC_021164.1	Ca_kabuli_chr05	2098889	TT	CC	1946840021
SNP_P4_68315_2100307	NC_021164.1	Ca_kabuli_chr05	2100307	GG	AA	1946840023
SNP_P4_68317_2100931	NC_021164.1	Ca_kabuli_chr05	2100931	GG	TT	1946840025
SNP_P4_68318_2100942	NC_021164.1	Ca_kabuli_chr05	2100942	CC	TT	1946840027

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_68319_2131587	NC_021164.1	Ca_kabuli_chr05	2131587	CC	TT	1946840029
SNP_P4_68321_2192099	NC_021164.1	Ca_kabuli_chr05	2192099	GG	AA	1946840031
SNP_P4_68322_2208025	NC_021164.1	Ca_kabuli_chr05	2208025	AA	TT	1946840033
SNP_P4_68323_2274697	NC_021164.1	Ca_kabuli_chr05	2274697	CC	TT	1946840035
SNP_P4_68325_2277811	NC_021164.1	Ca_kabuli_chr05	2277811	AA	GG	1946840037
SNP_P4_68326_2291160	NC_021164.1	Ca_kabuli_chr05	2291160	CC	TT	1946840039
SNP_P4_68327_2291272	NC_021164.1	Ca_kabuli_chr05	2291272	GG	AA	1946840041
SNP_P4_68328_2293085	NC_021164.1	Ca_kabuli_chr05	2293085	TT	CC	1946840043
SNP_P4_68329_2293943	NC_021164.1	Ca_kabuli_chr05	2293943	CC	GG	1946840045
SNP_P4_68330_2295090	NC_021164.1	Ca_kabuli_chr05	2295090	TT	CC	1946840047
SNP_P4_68331_2296517	NC_021164.1	Ca_kabuli_chr05	2296517	GG	AA	1946840049
SNP_P4_68332_2297474	NC_021164.1	Ca_kabuli_chr05	2297474	TT	GG	1946840051
SNP_P4_68333_2299167	NC_021164.1	Ca_kabuli_chr05	2299167	CC	TT	1946840053
SNP_P4_68334_2302945	NC_021164.1	Ca_kabuli_chr05	2302945	AA	GG	1946840055
SNP_P4_68335_2304566	NC_021164.1	Ca_kabuli_chr05	2304566	TT	CC	1946840057
SNP_P4_68336_2305207	NC_021164.1	Ca_kabuli_chr05	2305207	CC	AA	1946840059
SNP_P4_68337_2305434	NC_021164.1	Ca_kabuli_chr05	2305434	TT	CC	1946840061
SNP_P4_68338_2305619	NC_021164.1	Ca_kabuli_chr05	2305619	TT	CC	1946840063
SNP_P4_68339_2323228	NC_021164.1	Ca_kabuli_chr05	2323228	CC	TT	1946840065
SNP_P4_68340_2323425	NC_021164.1	Ca_kabuli_chr05	2323425	CC	TT	1946840067
SNP_P4_68342_2323476	NC_021164.1	Ca_kabuli_chr05	2323476	TT	GG	1946840069
SNP_P4_68343_2323564	NC_021164.1	Ca_kabuli_chr05	2323564	GG	AA	1946840071
SNP_P4_68344_2323590	NC_021164.1	Ca_kabuli_chr05	2323590	AA	GG	1946840073
SNP_P4_68345_2323599	NC_021164.1	Ca_kabuli_chr05	2323599	AA	CC	1946840075
SNP_P4_68346_2323727	NC_021164.1	Ca_kabuli_chr05	2323727	TT	CC	1946840076
SNP_P4_68348_2323868	NC_021164.1	Ca_kabuli_chr05	2323868	CC	TT	1946840078
SNP_P4_68349_2323904	NC_021164.1	Ca_kabuli_chr05	2323904	TT	CC	1946840080
SNP_P4_68350_2323935	NC_021164.1	Ca_kabuli_chr05	2323935	TT	AA	1946840082
SNP_P4_68351_2324109	NC_021164.1	Ca_kabuli_chr05	2324109	TT	CC	1946840084
SNP_P4_68352_2324295	NC_021164.1	Ca_kabuli_chr05	2324295	TT	CC	1946840086
SNP_P4_68353_2324315	NC_021164.1	Ca_kabuli_chr05	2324315	CC	AA	1946840088
SNP_P4_68354_2324326	NC_021164.1	Ca_kabuli_chr05	2324326	AA	CC	1946840090
SNP_P4_68355_2324346	NC_021164.1	Ca_kabuli_chr05	2324346	CC	TT	1946840092
SNP_P4_68356_2324438	NC_021164.1	Ca_kabuli_chr05	2324438	CC	TT	1946840094
SNP_P4_68357_2324452	NC_021164.1	Ca_kabuli_chr05	2324452	TT	AA	1946840096
SNP_P4_68358_2324454	NC_021164.1	Ca_kabuli_chr05	2324454	AA	TT	1946840098
SNP_P4_68359_2324535	NC_021164.1	Ca_kabuli_chr05	2324535	TT	GG	1946840100
SNP_P4_68360_2324573	NC_021164.1	Ca_kabuli_chr05	2324573	TT	GG	1946840102
SNP_P4_68361_2324630	NC_021164.1	Ca_kabuli_chr05	2324630	GG	AA	1946840104
SNP_P4_68362_2324641	NC_021164.1	Ca_kabuli_chr05	2324641	CC	AA	1946840106
SNP_P4_68363_2324665	NC_021164.1	Ca_kabuli_chr05	2324665	AA	GG	1946840108
SNP_P4_68364_2324815	NC_021164.1	Ca_kabuli_chr05	2324815	GG	CC	1946840110

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_68365_2324845	NC_021164.1	Ca_kabuli_chr05	2324845	TT	AA	1946840113
SNP_P4_68366_2324934	NC_021164.1	Ca_kabuli_chr05	2324934	TT	CC	1946840115
SNP_P4_68367_2325042	NC_021164.1	Ca_kabuli_chr05	2325042	TT	CC	1946840117
SNP_P4_68368_2325059	NC_021164.1	Ca_kabuli_chr05	2325059	AA	CC	1946840119
SNP_P4_68369_2325063	NC_021164.1	Ca_kabuli_chr05	2325063	TT	AA	1946840121
SNP_P4_68370_2325064	NC_021164.1	Ca_kabuli_chr05	2325064	AA	GG	1946840123
SNP_P4_68371_2325120	NC_021164.1	Ca_kabuli_chr05	2325120	AA	GG	1946840125
SNP_P4_68372_2325154	NC_021164.1	Ca_kabuli_chr05	2325154	TT	AA	1946840127
SNP_P4_68373_2325270	NC_021164.1	Ca_kabuli_chr05	2325270	AA	TT	1946840129
SNP_P4_68374_2325298	NC_021164.1	Ca_kabuli_chr05	2325298	CC	GG	1946840131
SNP_P4_68375_2325624	NC_021164.1	Ca_kabuli_chr05	2325624	GG	TT	1946840133
SNP_P4_68376_2325629	NC_021164.1	Ca_kabuli_chr05	2325629	TT	CC	1946840135
SNP_P4_68377_2325635	NC_021164.1	Ca_kabuli_chr05	2325635	TT	GG	1946840137
SNP_P4_68378_2325696	NC_021164.1	Ca_kabuli_chr05	2325696	AA	GG	1946840139
SNP_P4_68379_2325881	NC_021164.1	Ca_kabuli_chr05	2325881	GG	TT	1946840141
SNP_P4_68380_2325928	NC_021164.1	Ca_kabuli_chr05	2325928	TT	CC	1946840143
SNP_P4_68381_2326349	NC_021164.1	Ca_kabuli_chr05	2326349	TT	AA	1946840145
SNP_P4_68382_2326540	NC_021164.1	Ca_kabuli_chr05	2326540	TT	CC	1946840147
SNP_P4_68383_2326682	NC_021164.1	Ca_kabuli_chr05	2326682	AA	CC	1946840149
SNP_P4_68384_2326793	NC_021164.1	Ca_kabuli_chr05	2326793	AA	CC	1946840151
SNP_P4_68385_2326873	NC_021164.1	Ca_kabuli_chr05	2326873	CC	TT	1946840153
SNP_P4_68386_2326890	NC_021164.1	Ca_kabuli_chr05	2326890	AA	GG	1946840155
SNP_P4_68387_2326917	NC_021164.1	Ca_kabuli_chr05	2326917	GG	CC	1946840157
SNP_P4_68388_2326919	NC_021164.1	Ca_kabuli_chr05	2326919	AA	TT	1946840159
SNP_P4_68389_2326968	NC_021164.1	Ca_kabuli_chr05	2326968	AA	GG	1946840160
SNP_P4_68390_2327069	NC_021164.1	Ca_kabuli_chr05	2327069	CC	AA	1946840162
SNP_P4_68391_2327108	NC_021164.1	Ca_kabuli_chr05	2327108	AA	CC	1946840164
SNP_P4_68392_2327170	NC_021164.1	Ca_kabuli_chr05	2327170	CC	AA	1946840166
SNP_P4_68393_2327178	NC_021164.1	Ca_kabuli_chr05	2327178	AA	TT	1946840168
SNP_P4_68394_2327210	NC_021164.1	Ca_kabuli_chr05	2327210	TT	GG	1946840170
SNP_P4_68396_2327313	NC_021164.1	Ca_kabuli_chr05	2327313	AA	GG	1946840172
SNP_P4_68397_2327323	NC_021164.1	Ca_kabuli_chr05	2327323	AA	GG	1946840174
SNP_P4_68398_2327360	NC_021164.1	Ca_kabuli_chr05	2327360	AA	GG	1946840176
SNP_P4_68399_2327361	NC_021164.1	Ca_kabuli_chr05	2327361	CC	TT	1946840178
SNP_P4_68400_2327383	NC_021164.1	Ca_kabuli_chr05	2327383	TT	CC	1946840180
SNP_P4_68401_2327390	NC_021164.1	Ca_kabuli_chr05	2327390	GG	TT	1946840183
SNP_P4_68402_2327396	NC_021164.1	Ca_kabuli_chr05	2327396	GG	AA	1946840185
SNP_P4_68403_2327440	NC_021164.1	Ca_kabuli_chr05	2327440	AA	CC	1946840187
SNP_P4_68404_2327472	NC_021164.1	Ca_kabuli_chr05	2327472	AA	GG	1946840189
SNP_P4_68405_2327524	NC_021164.1	Ca_kabuli_chr05	2327524	TT	CC	1946840191
SNP_P4_68406_2327588	NC_021164.1	Ca_kabuli_chr05	2327588	CC	TT	1946840193
SNP_P4_68407_2327591	NC_021164.1	Ca_kabuli_chr05	2327591	TT	CC	1946840195

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_68408_2327653	NC_021164.1	Ca_kabuli_chr05	2327653	CC	GG	1946840197
SNP_P4_68409_2327687	NC_021164.1	Ca_kabuli_chr05	2327687	TT	CC	1946840199
SNP_P4_68410_2327832	NC_021164.1	Ca_kabuli_chr05	2327832	AA	GG	1946840201
SNP_P4_68411_2327912	NC_021164.1	Ca_kabuli_chr05	2327912	TT	AA	1946840203
SNP_P4_68412_2327929	NC_021164.1	Ca_kabuli_chr05	2327929	TT	AA	1946840205
SNP_P4_68413_2327930	NC_021164.1	Ca_kabuli_chr05	2327930	GG	AA	1946840207
SNP_P4_68414_2327955	NC_021164.1	Ca_kabuli_chr05	2327955	CC	TT	1946840209
SNP_P4_68415_2327980	NC_021164.1	Ca_kabuli_chr05	2327980	CC	TT	1946840211
SNP_P4_68416_2328090	NC_021164.1	Ca_kabuli_chr05	2328090	TT	AA	1946840213
SNP_P4_68417_2328128	NC_021164.1	Ca_kabuli_chr05	2328128	TT	CC	1946840215
SNP_P4_68418_2328450	NC_021164.1	Ca_kabuli_chr05	2328450	GG	AA	1946840217
SNP_P4_68419_2328451	NC_021164.1	Ca_kabuli_chr05	2328451	GG	AA	1946840219
SNP_P4_68420_2328485	NC_021164.1	Ca_kabuli_chr05	2328485	AA	GG	1946840221
SNP_P4_68421_2339970	NC_021164.1	Ca_kabuli_chr05	2339970	AA	TT	1946840223
SNP_P4_68422_2355651	NC_021164.1	Ca_kabuli_chr05	2355651	GG	AA	1946840225
SNP_P4_68423_2355661	NC_021164.1	Ca_kabuli_chr05	2355661	GG	TT	1946840227
SNP_P4_68424_2355776	NC_021164.1	Ca_kabuli_chr05	2355776	AA	CC	1946840229
SNP_P4_68426_2375490	NC_021164.1	Ca_kabuli_chr05	2375490	TT	GG	1946840231
SNP_P4_68427_2379860	NC_021164.1	Ca_kabuli_chr05	2379860	CC	GG	1946840233
SNP_P4_68428_2380011	NC_021164.1	Ca_kabuli_chr05	2380011	CC	AA	1946840235
SNP_P4_68429_2402307	NC_021164.1	Ca_kabuli_chr05	2402307	TT	CC	1946840237
SNP_P4_68431_2402660	NC_021164.1	Ca_kabuli_chr05	2402660	AA	CC	1946840239
SNP_P4_68432_2404441	NC_021164.1	Ca_kabuli_chr05	2404441	CC	TT	1946840241
SNP_P4_68434_2420874	NC_021164.1	Ca_kabuli_chr05	2420874	TT	CC	1946840243
SNP_P4_68435_2421141	NC_021164.1	Ca_kabuli_chr05	2421141	TT	CC	1946840245
SNP_P4_68436_2421829	NC_021164.1	Ca_kabuli_chr05	2421829	AA	TT	1946840247
SNP_P4_68437_2421832	NC_021164.1	Ca_kabuli_chr05	2421832	AA	TT	1946840249
SNP_P4_68439_2454809	NC_021164.1	Ca_kabuli_chr05	2454809	AA	CC	1946840251
SNP_P4_68440_2476755	NC_021164.1	Ca_kabuli_chr05	2476755	TT	CC	1946840253
SNP_P4_68441_2495578	NC_021164.1	Ca_kabuli_chr05	2495578	GG	TT	1946840255
SNP_P4_68442_2504088	NC_021164.1	Ca_kabuli_chr05	2504088	TT	AA	1946840257
SNP_P4_68443_2504098	NC_021164.1	Ca_kabuli_chr05	2504098	TT	AA	1946840259
SNP_P4_68444_2508771	NC_021164.1	Ca_kabuli_chr05	2508771	TT	CC	1946840261
SNP_P4_68445_2519150	NC_021164.1	Ca_kabuli_chr05	2519150	CC	AA	1946840263
SNP_P4_68446_2519218	NC_021164.1	Ca_kabuli_chr05	2519218	CC	TT	1946840265
SNP_P4_68447_2519728	NC_021164.1	Ca_kabuli_chr05	2519728	CC	TT	1946840267
SNP_P4_68448_2539536	NC_021164.1	Ca_kabuli_chr05	2539536	TT	CC	1946840269
SNP_P4_68449_2539760	NC_021164.1	Ca_kabuli_chr05	2539760	CC	TT	1946840271
SNP_P4_68450_2540094	NC_021164.1	Ca_kabuli_chr05	2540094	TT	GG	1946840273
SNP_P4_68451_2540108	NC_021164.1	Ca_kabuli_chr05	2540108	TT	GG	1946840275
SNP_P4_68452_2540174	NC_021164.1	Ca_kabuli_chr05	2540174	GG	TT	1946840277
SNP_P4_68453_2546738	NC_021164.1	Ca_kabuli_chr05	2546738	TT	CC	1946840279

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_68454_2547461	NC_021164.1	Ca_kabuli_chr05	2547461	CC	AA	1946840281
SNP_P4_68455_2548038	NC_021164.1	Ca_kabuli_chr05	2548038	AA	GG	1946840283
SNP_P4_68457_2548050	NC_021164.1	Ca_kabuli_chr05	2548050	GG	AA	1946840285
SNP_P4_68458_2548061	NC_021164.1	Ca_kabuli_chr05	2548061	GG	AA	1946840287
SNP_P4_68459_2550825	NC_021164.1	Ca_kabuli_chr05	2550825	CC	AA	1946840289
SNP_P4_68461_2559087	NC_021164.1	Ca_kabuli_chr05	2559087	TT	CC	1946840291
SNP_P4_68462_2600805	NC_021164.1	Ca_kabuli_chr05	2600805	TT	GG	1946840293
SNP_P4_68463_2626781	NC_021164.1	Ca_kabuli_chr05	2626781	AA	TT	1946840295
SNP_P4_68464_2628357	NC_021164.1	Ca_kabuli_chr05	2628357	AA	TT	1946840297
SNP_P4_68465_2628499	NC_021164.1	Ca_kabuli_chr05	2628499	AA	TT	1946840299
SNP_P4_68466_2628508	NC_021164.1	Ca_kabuli_chr05	2628508	TT	CC	1946840301
SNP_P4_68467_2628538	NC_021164.1	Ca_kabuli_chr05	2628538	CC	TT	1946840303
SNP_P4_68469_2628594	NC_021164.1	Ca_kabuli_chr05	2628594	GG	AA	1946840305
SNP_P4_68470_2628682	NC_021164.1	Ca_kabuli_chr05	2628682	CC	AA	1946840307
SNP_P4_68471_2628719	NC_021164.1	Ca_kabuli_chr05	2628719	GG	AA	1946840309
SNP_P4_68472_2629012	NC_021164.1	Ca_kabuli_chr05	2629012	CC	TT	1946840310
SNP_P4_68473_2641145	NC_021164.1	Ca_kabuli_chr05	2641145	CC	AA	1946840312
SNP_P4_68474_2659156	NC_021164.1	Ca_kabuli_chr05	2659156	TT	CC	1946840314
SNP_P4_68475_2663865	NC_021164.1	Ca_kabuli_chr05	2663865	AA	GG	1946840316
SNP_P4_68476_2664041	NC_021164.1	Ca_kabuli_chr05	2664041	GG	AA	1946840318
SNP_P4_68477_2664226	NC_021164.1	Ca_kabuli_chr05	2664226	AA	TT	1946840320
SNP_P4_68478_2669306	NC_021164.1	Ca_kabuli_chr05	2669306	CC	TT	1946840322
SNP_P4_68479_2669324	NC_021164.1	Ca_kabuli_chr05	2669324	GG	AA	1946840324
SNP_P4_68480_2669921	NC_021164.1	Ca_kabuli_chr05	2669921	GG	TT	1946840326
SNP_P4_68481_2670102	NC_021164.1	Ca_kabuli_chr05	2670102	GG	AA	1946840328
SNP_P4_68482_2698882	NC_021164.1	Ca_kabuli_chr05	2698882	TT	AA	1946840330
SNP_P4_68483_2698923	NC_021164.1	Ca_kabuli_chr05	2698923	CC	TT	1946840332
SNP_P4_68484_2699053	NC_021164.1	Ca_kabuli_chr05	2699053	GG	AA	1946840334
SNP_P4_68485_2699058	NC_021164.1	Ca_kabuli_chr05	2699058	CC	TT	1946840337
SNP_P4_68486_2699060	NC_021164.1	Ca_kabuli_chr05	2699060	CC	AA	1946840339
SNP_P4_68487_2699067	NC_021164.1	Ca_kabuli_chr05	2699067	GG	TT	1946840341
SNP_P4_68488_2699071	NC_021164.1	Ca_kabuli_chr05	2699071	AA	GG	1946840343
SNP_P4_68489_2699076	NC_021164.1	Ca_kabuli_chr05	2699076	CC	TT	1946840345
SNP_P4_68490_2699080	NC_021164.1	Ca_kabuli_chr05	2699080	AA	GG	1946840347
SNP_P4_68492_2719098	NC_021164.1	Ca_kabuli_chr05	2719098	TT	GG	1946840349
SNP_P4_68493_2739328	NC_021164.1	Ca_kabuli_chr05	2739328	AA	CC	1946840351
SNP_P4_68494_2739935	NC_021164.1	Ca_kabuli_chr05	2739935	GG	AA	1946840353
SNP_P4_68495_2740021	NC_021164.1	Ca_kabuli_chr05	2740021	AA	GG	1946840355
SNP_P4_68496_2744336	NC_021164.1	Ca_kabuli_chr05	2744336	GG	AA	1946840357
SNP_P4_68497_2744583	NC_021164.1	Ca_kabuli_chr05	2744583	CC	AA	1946840359
SNP_P4_68498_2744585	NC_021164.1	Ca_kabuli_chr05	2744585	CC	AA	1946840361
SNP_P4_68499_2744588	NC_021164.1	Ca_kabuli_chr05	2744588	CC	TT	1946840363

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_68500_2744639	NC_021164.1	Ca_kabuli_chr05	2744639	AA	GG	1946840365
SNP_P4_68501_2744686	NC_021164.1	Ca_kabuli_chr05	2744686	TT	CC	1946840367
SNP_P4_68502_2753644	NC_021164.1	Ca_kabuli_chr05	2753644	AA	GG	1946840369
SNP_P4_68503_2828783	NC_021164.1	Ca_kabuli_chr05	2828783	AA	CC	1946840371
SNP_P4_68504_2830289	NC_021164.1	Ca_kabuli_chr05	2830289	AA	GG	1946840373
SNP_P4_68505_2830655	NC_021164.1	Ca_kabuli_chr05	2830655	AA	GG	1946840375
SNP_P4_68506_2830698	NC_021164.1	Ca_kabuli_chr05	2830698	AA	GG	1946840377
SNP_P4_68507_2831020	NC_021164.1	Ca_kabuli_chr05	2831020	GG	AA	1946840379
SNP_P4_68508_2831185	NC_021164.1	Ca_kabuli_chr05	2831185	AA	GG	1946840380
SNP_P4_68509_2840443	NC_021164.1	Ca_kabuli_chr05	2840443	AA	GG	1946840382
SNP_P4_68510_2851116	NC_021164.1	Ca_kabuli_chr05	2851116	GG	AA	1946840384
SNP_P4_68511_2912543	NC_021164.1	Ca_kabuli_chr05	2912543	AA	GG	1946840386
SNP_P4_68512_2920680	NC_021164.1	Ca_kabuli_chr05	2920680	AA	GG	1946840388
SNP_P4_68513_2947219	NC_021164.1	Ca_kabuli_chr05	2947219	AA	GG	1946840391
SNP_P4_68514_2948530	NC_021164.1	Ca_kabuli_chr05	2948530	GG	TT	1946840393
SNP_P4_68515_2948531	NC_021164.1	Ca_kabuli_chr05	2948531	TT	CC	1946840395
SNP_P4_68516_2978840	NC_021164.1	Ca_kabuli_chr05	2978840	CC	TT	1946840397
SNP_P4_68517_2992969	NC_021164.1	Ca_kabuli_chr05	2992969	CC	TT	1946840399
SNP_P4_68518_2997091	NC_021164.1	Ca_kabuli_chr05	2997091	GG	AA	1946840401
SNP_P4_68520_3066729	NC_021164.1	Ca_kabuli_chr05	3066729	AA	GG	1946840403
SNP_P4_68521_3067090	NC_021164.1	Ca_kabuli_chr05	3067090	GG	AA	1946840405
SNP_P4_68522_3067114	NC_021164.1	Ca_kabuli_chr05	3067114	CC	TT	1946840407
SNP_P4_68523_3067124	NC_021164.1	Ca_kabuli_chr05	3067124	GG	AA	1946840409
SNP_P4_68524_3067141	NC_021164.1	Ca_kabuli_chr05	3067141	AA	GG	1946840411
SNP_P4_68525_3067204	NC_021164.1	Ca_kabuli_chr05	3067204	CC	TT	1946840413
SNP_P4_68526_3070154	NC_021164.1	Ca_kabuli_chr05	3070154	CC	TT	1946840415
SNP_P4_68527_3070196	NC_021164.1	Ca_kabuli_chr05	3070196	GG	AA	1946840417
SNP_P4_68528_3070557	NC_021164.1	Ca_kabuli_chr05	3070557	GG	AA	1946840419
SNP_P4_68529_3091775	NC_021164.1	Ca_kabuli_chr05	3091775	TT	AA	1946840421
SNP_P4_68532_3117498	NC_021164.1	Ca_kabuli_chr05	3117498	AA	CC	1946840423
SNP_P4_68534_3117523	NC_021164.1	Ca_kabuli_chr05	3117523	TT	CC	1946840425
SNP_P4_68535_3117605	NC_021164.1	Ca_kabuli_chr05	3117605	AA	GG	1946840427
SNP_P4_68536_3117639	NC_021164.1	Ca_kabuli_chr05	3117639	TT	CC	1946840429
SNP_P4_68537_3117975	NC_021164.1	Ca_kabuli_chr05	3117975	TT	GG	1946840431
SNP_P4_68538_3118035	NC_021164.1	Ca_kabuli_chr05	3118035	CC	TT	1946840433
SNP_P4_68539_3170635	NC_021164.1	Ca_kabuli_chr05	3170635	TT	CC	1946840435
SNP_P4_68540_3199660	NC_021164.1	Ca_kabuli_chr05	3199660	TT	GG	1946840437
SNP_P4_68541_3199685	NC_021164.1	Ca_kabuli_chr05	3199685	GG	TT	1946840439
SNP_P4_68542_3199718	NC_021164.1	Ca_kabuli_chr05	3199718	AA	GG	1946840441
SNP_P4_68543_3199728	NC_021164.1	Ca_kabuli_chr05	3199728	CC	TT	1946840443
SNP_P4_68544_3243551	NC_021164.1	Ca_kabuli_chr05	3243551	GG	TT	1946840445
SNP_P4_68545_3279744	NC_021164.1	Ca_kabuli_chr05	3279744	TT	CC	1946840447

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_68546_3297859	NC_021164.1	Ca_kabuli_chr05	3297859	GG	AA	1946840449
SNP_P4_68548_3343935	NC_021164.1	Ca_kabuli_chr05	3343935	TT	CC	1946840451
SNP_P4_68549_3344126	NC_021164.1	Ca_kabuli_chr05	3344126	AA	GG	1946840453
SNP_P4_68550_3345314	NC_021164.1	Ca_kabuli_chr05	3345314	TT	CC	1946840455
SNP_P4_68551_3345518	NC_021164.1	Ca_kabuli_chr05	3345518	AA	TT	1946840457
SNP_P4_68552_3348181	NC_021164.1	Ca_kabuli_chr05	3348181	GG	AA	1946840459
SNP_P4_68553_3352863	NC_021164.1	Ca_kabuli_chr05	3352863	GG	AA	1946840461
SNP_P4_68554_3353375	NC_021164.1	Ca_kabuli_chr05	3353375	AA	GG	1946840463
SNP_P4_68555_3389002	NC_021164.1	Ca_kabuli_chr05	3389002	TT	CC	1946840465
SNP_P4_68557_3406623	NC_021164.1	Ca_kabuli_chr05	3406623	GG	CC	1946840467
SNP_P4_68558_3411158	NC_021164.1	Ca_kabuli_chr05	3411158	TT	GG	1946840469
SNP_P4_68559_3413170	NC_021164.1	Ca_kabuli_chr05	3413170	AA	CC	1946840471
SNP_P4_68560_3415080	NC_021164.1	Ca_kabuli_chr05	3415080	GG	AA	1946840473
SNP_P4_68561_3415475	NC_021164.1	Ca_kabuli_chr05	3415475	GG	AA	1946840475
SNP_P4_68562_3419948	NC_021164.1	Ca_kabuli_chr05	3419948	GG	AA	1946840477
SNP_P4_68563_3433327	NC_021164.1	Ca_kabuli_chr05	3433327	AA	TT	1946840479
SNP_P4_68564_3454470	NC_021164.1	Ca_kabuli_chr05	3454470	TT	GG	1946840481
SNP_P4_68565_3457108	NC_021164.1	Ca_kabuli_chr05	3457108	TT	AA	1946840483
SNP_P4_68566_3464705	NC_021164.1	Ca_kabuli_chr05	3464705	GG	AA	1946840486
SNP_P4_68567_3466703	NC_021164.1	Ca_kabuli_chr05	3466703	TT	AA	1946840488
SNP_P4_68568_3466704	NC_021164.1	Ca_kabuli_chr05	3466704	GG	TT	1946840490
SNP_P4_68569_3466711	NC_021164.1	Ca_kabuli_chr05	3466711	CC	TT	1946840492
SNP_P4_68570_3466714	NC_021164.1	Ca_kabuli_chr05	3466714	TT	CC	1946840494
SNP_P4_68571_3466719	NC_021164.1	Ca_kabuli_chr05	3466719	GG	TT	1946840496
SNP_P4_68572_3476691	NC_021164.1	Ca_kabuli_chr05	3476691	GG	AA	1946840498
SNP_P4_68573_3476727	NC_021164.1	Ca_kabuli_chr05	3476727	GG	TT	1946840500
SNP_P4_68574_3481226	NC_021164.1	Ca_kabuli_chr05	3481226	CC	GG	1946840503
SNP_P4_68575_3483199	NC_021164.1	Ca_kabuli_chr05	3483199	GG	AA	1946840505
SNP_P4_68577_3527006	NC_021164.1	Ca_kabuli_chr05	3527006	GG	TT	1946840507
SNP_P4_68578_3527009	NC_021164.1	Ca_kabuli_chr05	3527009	CC	TT	1946840509
SNP_P4_68580_3568422	NC_021164.1	Ca_kabuli_chr05	3568422	AA	CC	1946840511
SNP_P4_68581_3570468	NC_021164.1	Ca_kabuli_chr05	3570468	AA	GG	1946840513
SNP_P4_68582_3570504	NC_021164.1	Ca_kabuli_chr05	3570504	AA	GG	1946840515
SNP_P4_68583_3570602	NC_021164.1	Ca_kabuli_chr05	3570602	GG	AA	1946840517
SNP_P4_68584_3570619	NC_021164.1	Ca_kabuli_chr05	3570619	CC	TT	1946840519
SNP_P4_68585_3570634	NC_021164.1	Ca_kabuli_chr05	3570634	GG	AA	1946840521
SNP_P4_68586_3570654	NC_021164.1	Ca_kabuli_chr05	3570654	TT	AA	1946840523
SNP_P4_68587_3570659	NC_021164.1	Ca_kabuli_chr05	3570659	GG	AA	1946840525
SNP_P4_68588_3570676	NC_021164.1	Ca_kabuli_chr05	3570676	TT	GG	1946840527
SNP_P4_68589_3570746	NC_021164.1	Ca_kabuli_chr05	3570746	GG	AA	1946840529
SNP_P4_68590_3570788	NC_021164.1	Ca_kabuli_chr05	3570788	AA	TT	1946840531
SNP_P4_68591_3570796	NC_021164.1	Ca_kabuli_chr05	3570796	AA	TT	1946840533

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_68592_3570834	NC_021164.1	Ca_kabuli_chr05	3570834	CC	AA	1946840535
SNP_P4_68593_3571363	NC_021164.1	Ca_kabuli_chr05	3571363	AA	GG	1946840537
SNP_P4_68594_3575426	NC_021164.1	Ca_kabuli_chr05	3575426	AA	GG	1946840539
SNP_P4_68596_3577752	NC_021164.1	Ca_kabuli_chr05	3577752	AA	GG	1946840541
SNP_P4_68597_3577759	NC_021164.1	Ca_kabuli_chr05	3577759	TT	CC	1946840543
SNP_P4_68598_3577762	NC_021164.1	Ca_kabuli_chr05	3577762	AA	GG	1946840545
SNP_P4_68599_3577793	NC_021164.1	Ca_kabuli_chr05	3577793	GG	TT	1946840547
SNP_P4_68600_3577794	NC_021164.1	Ca_kabuli_chr05	3577794	AA	GG	1946840549
SNP_P4_68601_3577837	NC_021164.1	Ca_kabuli_chr05	3577837	AA	CC	1946840551
SNP_P4_68602_3578127	NC_021164.1	Ca_kabuli_chr05	3578127	CC	TT	1946840553
SNP_P4_68603_3578205	NC_021164.1	Ca_kabuli_chr05	3578205	AA	CC	1946840555
SNP_P4_68604_3578208	NC_021164.1	Ca_kabuli_chr05	3578208	CC	AA	1946840557
SNP_P4_68605_3578730	NC_021164.1	Ca_kabuli_chr05	3578730	CC	TT	1946840559
SNP_P4_68606_3579237	NC_021164.1	Ca_kabuli_chr05	3579237	TT	CC	1946840561
SNP_P4_68607_3579254	NC_021164.1	Ca_kabuli_chr05	3579254	AA	GG	1946840563
SNP_P4_68608_3579258	NC_021164.1	Ca_kabuli_chr05	3579258	TT	GG	1946840565
SNP_P4_68609_3589828	NC_021164.1	Ca_kabuli_chr05	3589828	CC	TT	1946840567
SNP_P4_68610_3589834	NC_021164.1	Ca_kabuli_chr05	3589834	TT	CC	1946840569
SNP_P4_68611_3589867	NC_021164.1	Ca_kabuli_chr05	3589867	TT	AA	1946840571
SNP_P4_68612_3589969	NC_021164.1	Ca_kabuli_chr05	3589969	TT	AA	1946840573
SNP_P4_68613_3590337	NC_021164.1	Ca_kabuli_chr05	3590337	AA	GG	1946840575
SNP_P4_68614_3590791	NC_021164.1	Ca_kabuli_chr05	3590791	GG	AA	1946840576
SNP_P4_68615_3591195	NC_021164.1	Ca_kabuli_chr05	3591195	GG	CC	1946840578
SNP_P4_68616_3591198	NC_021164.1	Ca_kabuli_chr05	3591198	CC	AA	1946840580
SNP_P4_68617_3591200	NC_021164.1	Ca_kabuli_chr05	3591200	CC	GG	1946840582
SNP_P4_68618_3591399	NC_021164.1	Ca_kabuli_chr05	3591399	CC	AA	1946840584
SNP_P4_68619_3592446	NC_021164.1	Ca_kabuli_chr05	3592446	AA	TT	1946840586
SNP_P4_68620_3592452	NC_021164.1	Ca_kabuli_chr05	3592452	CC	AA	1946840588
SNP_P4_68621_3592773	NC_021164.1	Ca_kabuli_chr05	3592773	AA	TT	1946840590
SNP_P4_68622_3596554	NC_021164.1	Ca_kabuli_chr05	3596554	TT	AA	1946840592
SNP_P4_68623_3598098	NC_021164.1	Ca_kabuli_chr05	3598098	GG	AA	1946840594
SNP_P4_68624_3639215	NC_021164.1	Ca_kabuli_chr05	3639215	GG	AA	1946840595
SNP_P4_68625_3639262	NC_021164.1	Ca_kabuli_chr05	3639262	TT	CC	1946840597
SNP_P4_68626_3639552	NC_021164.1	Ca_kabuli_chr05	3639552	GG	AA	1946840599
SNP_P4_68627_3639553	NC_021164.1	Ca_kabuli_chr05	3639553	TT	CC	1946840601
SNP_P4_68628_3639573	NC_021164.1	Ca_kabuli_chr05	3639573	AA	GG	1946840603
SNP_P4_68629_3639654	NC_021164.1	Ca_kabuli_chr05	3639654	TT	AA	1946840605
SNP_P4_68630_3639720	NC_021164.1	Ca_kabuli_chr05	3639720	AA	TT	1946840607
SNP_P4_68631_3640677	NC_021164.1	Ca_kabuli_chr05	3640677	AA	CC	1946840609
SNP_P4_68632_3645647	NC_021164.1	Ca_kabuli_chr05	3645647	GG	AA	1946840611
SNP_P4_68633_3645903	NC_021164.1	Ca_kabuli_chr05	3645903	GG	TT	1946840613
SNP_P4_68634_3645921	NC_021164.1	Ca_kabuli_chr05	3645921	CC	TT	1946840615

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_68635_3662034	NC_021164.1	Ca_kabuli_chr05	3662034	AA	GG	1946840617
SNP_P4_68636_3662037	NC_021164.1	Ca_kabuli_chr05	3662037	TT	GG	1946840619
SNP_P4_68637_3691097	NC_021164.1	Ca_kabuli_chr05	3691097	AA	GG	1946840621
SNP_P4_68638_3691099	NC_021164.1	Ca_kabuli_chr05	3691099	CC	TT	1946840623
SNP_P4_68639_3717237	NC_021164.1	Ca_kabuli_chr05	3717237	CC	TT	1946840625
SNP_P4_68641_3742124	NC_021164.1	Ca_kabuli_chr05	3742124	GG	AA	1946840627
SNP_P4_68642_3742461	NC_021164.1	Ca_kabuli_chr05	3742461	TT	CC	1946840629
SNP_P4_68643_3742570	NC_021164.1	Ca_kabuli_chr05	3742570	TT	AA	1946840631
SNP_P4_68644_3742626	NC_021164.1	Ca_kabuli_chr05	3742626	AA	GG	1946840633
SNP_P4_68645_3742702	NC_021164.1	Ca_kabuli_chr05	3742702	TT	AA	1946840635
SNP_P4_68646_3742766	NC_021164.1	Ca_kabuli_chr05	3742766	AA	GG	1946840637
SNP_P4_68647_3742807	NC_021164.1	Ca_kabuli_chr05	3742807	CC	TT	1946840639
SNP_P4_68648_3742940	NC_021164.1	Ca_kabuli_chr05	3742940	CC	TT	1946840641
SNP_P4_68649_3749569	NC_021164.1	Ca_kabuli_chr05	3749569	TT	AA	1946840643
SNP_P4_68650_3782556	NC_021164.1	Ca_kabuli_chr05	3782556	GG	AA	1946840645
SNP_P4_68651_3783020	NC_021164.1	Ca_kabuli_chr05	3783020	AA	TT	1946840647
SNP_P4_68652_3783045	NC_021164.1	Ca_kabuli_chr05	3783045	AA	GG	1946840649
SNP_P4_68653_3783720	NC_021164.1	Ca_kabuli_chr05	3783720	AA	TT	1946840651
SNP_P4_68654_3791548	NC_021164.1	Ca_kabuli_chr05	3791548	AA	CC	1946840653
SNP_P4_68655_3791587	NC_021164.1	Ca_kabuli_chr05	3791587	TT	GG	1946840655
SNP_P4_68656_3793220	NC_021164.1	Ca_kabuli_chr05	3793220	TT	AA	1946840657
SNP_P4_68657_3795973	NC_021164.1	Ca_kabuli_chr05	3795973	CC	TT	1946840658
SNP_P4_68658_3797799	NC_021164.1	Ca_kabuli_chr05	3797799	GG	TT	1946840660
SNP_P4_68659_3798574	NC_021164.1	Ca_kabuli_chr05	3798574	AA	GG	1946840662
SNP_P4_68660_3798618	NC_021164.1	Ca_kabuli_chr05	3798618	AA	GG	1946840664
SNP_P4_68661_3798662	NC_021164.1	Ca_kabuli_chr05	3798662	CC	AA	1946840666
SNP_P4_68662_3798931	NC_021164.1	Ca_kabuli_chr05	3798931	AA	CC	1946840668
SNP_P4_68663_3798982	NC_021164.1	Ca_kabuli_chr05	3798982	TT	AA	1946840670
SNP_P4_68664_3798988	NC_021164.1	Ca_kabuli_chr05	3798988	AA	CC	1946840672
SNP_P4_68665_3799007	NC_021164.1	Ca_kabuli_chr05	3799007	GG	AA	1946840675
SNP_P4_68666_3799036	NC_021164.1	Ca_kabuli_chr05	3799036	TT	CC	1946840677
SNP_P4_68667_3799066	NC_021164.1	Ca_kabuli_chr05	3799066	TT	AA	1946840679
SNP_P4_68668_3801240	NC_021164.1	Ca_kabuli_chr05	3801240	AA	CC	1946840682
SNP_P4_68669_3806155	NC_021164.1	Ca_kabuli_chr05	3806155	TT	CC	1946840684
SNP_P4_68670_3806274	NC_021164.1	Ca_kabuli_chr05	3806274	CC	TT	1946840686
SNP_P4_68671_3808700	NC_021164.1	Ca_kabuli_chr05	3808700	AA	GG	1946840688
SNP_P4_68672_3808798	NC_021164.1	Ca_kabuli_chr05	3808798	TT	CC	1946840690
SNP_P4_68673_3808837	NC_021164.1	Ca_kabuli_chr05	3808837	CC	TT	1946840692
SNP_P4_68674_3808849	NC_021164.1	Ca_kabuli_chr05	3808849	AA	TT	1946840694
SNP_P4_68675_3808882	NC_021164.1	Ca_kabuli_chr05	3808882	TT	CC	1946840696
SNP_P4_68676_3809087	NC_021164.1	Ca_kabuli_chr05	3809087	AA	GG	1946840698
SNP_P4_68677_3809118	NC_021164.1	Ca_kabuli_chr05	3809118	AA	GG	1946840700

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_68678_3809263	NC_021164.1	Ca_kabuli_chr05	3809263	TT	CC	1946840702
SNP_P4_68679_3830506	NC_021164.1	Ca_kabuli_chr05	3830506	GG	CC	1946840704
SNP_P4_68680_3838231	NC_021164.1	Ca_kabuli_chr05	3838231	TT	CC	1946840706
SNP_P4_68681_3843442	NC_021164.1	Ca_kabuli_chr05	3843442	TT	CC	1946840708
SNP_P4_68682_3843711	NC_021164.1	Ca_kabuli_chr05	3843711	TT	GG	1946840710
SNP_P4_68683_3843842	NC_021164.1	Ca_kabuli_chr05	3843842	AA	GG	1946840712
SNP_P4_68684_3843848	NC_021164.1	Ca_kabuli_chr05	3843848	GG	TT	1946840714
SNP_P4_68685_3847922	NC_021164.1	Ca_kabuli_chr05	3847922	CC	TT	1946840716
SNP_P4_68686_3847949	NC_021164.1	Ca_kabuli_chr05	3847949	AA	GG	1946840718
SNP_P4_68687_3847962	NC_021164.1	Ca_kabuli_chr05	3847962	TT	CC	1946840720
SNP_P4_68688_3847965	NC_021164.1	Ca_kabuli_chr05	3847965	AA	CC	1946840722
SNP_P4_68689_3847978	NC_021164.1	Ca_kabuli_chr05	3847978	TT	CC	1946840724
SNP_P4_68690_3848325	NC_021164.1	Ca_kabuli_chr05	3848325	GG	AA	1946840726
SNP_P4_68691_3852600	NC_021164.1	Ca_kabuli_chr05	3852600	GG	TT	1946840728
SNP_P4_68692_3852613	NC_021164.1	Ca_kabuli_chr05	3852613	AA	CC	1946840730
SNP_P4_68693_3852618	NC_021164.1	Ca_kabuli_chr05	3852618	AA	CC	1946840732
SNP_P4_68694_3852983	NC_021164.1	Ca_kabuli_chr05	3852983	CC	GG	1946840734
SNP_P4_68696_3864961	NC_021164.1	Ca_kabuli_chr05	3864961	TT	AA	1946840736
SNP_P4_68697_3865035	NC_021164.1	Ca_kabuli_chr05	3865035	AA	TT	1946840738
SNP_P4_68698_3865098	NC_021164.1	Ca_kabuli_chr05	3865098	TT	AA	1946840741
SNP_P4_68699_3865353	NC_021164.1	Ca_kabuli_chr05	3865353	AA	TT	1946840743
SNP_P4_68700_3865363	NC_021164.1	Ca_kabuli_chr05	3865363	AA	TT	1946840745
SNP_P4_68701_3865364	NC_021164.1	Ca_kabuli_chr05	3865364	GG	AA	1946840747
SNP_P4_68702_3865497	NC_021164.1	Ca_kabuli_chr05	3865497	CC	TT	1946840749
SNP_P4_68703_3865616	NC_021164.1	Ca_kabuli_chr05	3865616	AA	TT	1946840751
SNP_P4_68704_3865709	NC_021164.1	Ca_kabuli_chr05	3865709	AA	TT	1946840753
SNP_P4_68705_3865747	NC_021164.1	Ca_kabuli_chr05	3865747	GG	AA	1946840755
SNP_P4_68706_3865756	NC_021164.1	Ca_kabuli_chr05	3865756	CC	AA	1946840757
SNP_P4_68708_3865925	NC_021164.1	Ca_kabuli_chr05	3865925	GG	TT	1946840759
SNP_P4_68709_3866219	NC_021164.1	Ca_kabuli_chr05	3866219	GG	AA	1946840761
SNP_P4_68710_3866266	NC_021164.1	Ca_kabuli_chr05	3866266	GG	AA	1946840763
SNP_P4_68711_3866426	NC_021164.1	Ca_kabuli_chr05	3866426	GG	AA	1946840765
SNP_P4_68712_3866551	NC_021164.1	Ca_kabuli_chr05	3866551	AA	TT	1946840767
SNP_P4_68713_3866553	NC_021164.1	Ca_kabuli_chr05	3866553	CC	TT	1946840769
SNP_P4_68714_3869349	NC_021164.1	Ca_kabuli_chr05	3869349	TT	AA	1946840771
SNP_P4_68715_3869459	NC_021164.1	Ca_kabuli_chr05	3869459	AA	GG	1946840773
SNP_P4_68718_3874624	NC_021164.1	Ca_kabuli_chr05	3874624	GG	AA	1946840775
SNP_P4_68719_3874676	NC_021164.1	Ca_kabuli_chr05	3874676	TT	CC	1946840777
SNP_P4_68720_3880275	NC_021164.1	Ca_kabuli_chr05	3880275	TT	CC	1946840779
SNP_P4_68722_3991968	NC_021164.1	Ca_kabuli_chr05	3991968	TT	CC	1946840781
SNP_P4_68724_3993169	NC_021164.1	Ca_kabuli_chr05	3993169	TT	AA	1946840783
SNP_P4_68725_3993202	NC_021164.1	Ca_kabuli_chr05	3993202	GG	TT	1946840785

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_68726_3993219	NC_021164.1	Ca_kabuli_chr05	3993219	CC	AA	1946840787
SNP_P4_68727_3993248	NC_021164.1	Ca_kabuli_chr05	3993248	AA	CC	1946840789
SNP_P4_68728_3993255	NC_021164.1	Ca_kabuli_chr05	3993255	GG	TT	1946840791
SNP_P4_68729_3993444	NC_021164.1	Ca_kabuli_chr05	3993444	GG	TT	1946840793
SNP_P4_68730_3993615	NC_021164.1	Ca_kabuli_chr05	3993615	GG	TT	1946840795
SNP_P4_68731_3993683	NC_021164.1	Ca_kabuli_chr05	3993683	GG	TT	1946840797
SNP_P4_68732_4007744	NC_021164.1	Ca_kabuli_chr05	4007744	AA	GG	1946840799
SNP_P4_68733_4030146	NC_021164.1	Ca_kabuli_chr05	4030146	CC	TT	1946840801
SNP_P4_68734_4058552	NC_021164.1	Ca_kabuli_chr05	4058552	AA	CC	1946840803
SNP_P4_68735_4059599	NC_021164.1	Ca_kabuli_chr05	4059599	TT	GG	1946840805
SNP_P4_68737_4064778	NC_021164.1	Ca_kabuli_chr05	4064778	GG	AA	1946840807
SNP_P4_68738_4071473	NC_021164.1	Ca_kabuli_chr05	4071473	AA	GG	1946840809
SNP_P4_68739_4085325	NC_021164.1	Ca_kabuli_chr05	4085325	GG	CC	1946840811
SNP_P4_68740_4124063	NC_021164.1	Ca_kabuli_chr05	4124063	AA	GG	1946840813
SNP_P4_68741_4124064	NC_021164.1	Ca_kabuli_chr05	4124064	TT	CC	1946840815
SNP_P4_68742_4124088	NC_021164.1	Ca_kabuli_chr05	4124088	TT	CC	1946840817
SNP_P4_68743_4124099	NC_021164.1	Ca_kabuli_chr05	4124099	GG	TT	1946840819
SNP_P4_68744_4124113	NC_021164.1	Ca_kabuli_chr05	4124113	CC	GG	1946840821
SNP_P4_68745_4141138	NC_021164.1	Ca_kabuli_chr05	4141138	AA	GG	1946840823
SNP_P4_68746_4141170	NC_021164.1	Ca_kabuli_chr05	4141170	CC	AA	1946840825
SNP_P4_68747_4141199	NC_021164.1	Ca_kabuli_chr05	4141199	CC	TT	1946840827
SNP_P4_68748_4141447	NC_021164.1	Ca_kabuli_chr05	4141447	CC	TT	1946840829
SNP_P4_68749_4141551	NC_021164.1	Ca_kabuli_chr05	4141551	GG	CC	1946840831
SNP_P4_68750_4141582	NC_021164.1	Ca_kabuli_chr05	4141582	TT	AA	1946840833
SNP_P4_68751_4141623	NC_021164.1	Ca_kabuli_chr05	4141623	AA	GG	1946840835
SNP_P4_68752_4141656	NC_021164.1	Ca_kabuli_chr05	4141656	AA	GG	1946840837
SNP_P4_68753_4141765	NC_021164.1	Ca_kabuli_chr05	4141765	CC	TT	1946840839
SNP_P4_68754_4141806	NC_021164.1	Ca_kabuli_chr05	4141806	AA	GG	1946840841
SNP_P4_68755_4141811	NC_021164.1	Ca_kabuli_chr05	4141811	GG	AA	1946840843
SNP_P4_68756_4146307	NC_021164.1	Ca_kabuli_chr05	4146307	TT	CC	1946840845
SNP_P4_68757_4152784	NC_021164.1	Ca_kabuli_chr05	4152784	AA	GG	1946840847
SNP_P4_68758_4154318	NC_021164.1	Ca_kabuli_chr05	4154318	AA	GG	1946840849
SNP_P4_68759_4155052	NC_021164.1	Ca_kabuli_chr05	4155052	TT	CC	1946840852
SNP_P4_68760_4155070	NC_021164.1	Ca_kabuli_chr05	4155070	GG	AA	1946840854
SNP_P4_68761_4155758	NC_021164.1	Ca_kabuli_chr05	4155758	CC	TT	1946840856
SNP_P4_68762_4156295	NC_021164.1	Ca_kabuli_chr05	4156295	AA	GG	1946840858
SNP_P4_68763_4157200	NC_021164.1	Ca_kabuli_chr05	4157200	GG	AA	1946840860
SNP_P4_68764_4157310	NC_021164.1	Ca_kabuli_chr05	4157310	AA	GG	1946840862
SNP_P4_68765_4157670	NC_021164.1	Ca_kabuli_chr05	4157670	AA	TT	1946840864
SNP_P4_68766_4157877	NC_021164.1	Ca_kabuli_chr05	4157877	TT	AA	1946840867
SNP_P4_68767_4157888	NC_021164.1	Ca_kabuli_chr05	4157888	AA	GG	1946840869
SNP_P4_68768_4157901	NC_021164.1	Ca_kabuli_chr05	4157901	TT	CC	1946840871

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_68769_4158095	NC_021164.1	Ca_kabuli_chr05	4158095	GG	CC	1946840873
SNP_P4_68770_4158810	NC_021164.1	Ca_kabuli_chr05	4158810	TT	GG	1946840875
SNP_P4_68771_4158877	NC_021164.1	Ca_kabuli_chr05	4158877	AA	CC	1946840877
SNP_P4_68772_4158889	NC_021164.1	Ca_kabuli_chr05	4158889	TT	GG	1946840879
SNP_P4_68773_4159018	NC_021164.1	Ca_kabuli_chr05	4159018	GG	AA	1946840881
SNP_P4_68774_4159023	NC_021164.1	Ca_kabuli_chr05	4159023	AA	TT	1946840883
SNP_P4_68775_4159032	NC_021164.1	Ca_kabuli_chr05	4159032	AA	GG	1946840885
SNP_P4_68776_4159104	NC_021164.1	Ca_kabuli_chr05	4159104	AA	TT	1946840887
SNP_P4_68777_4159260	NC_021164.1	Ca_kabuli_chr05	4159260	AA	GG	1946840889
SNP_P4_68778_4172730	NC_021164.1	Ca_kabuli_chr05	4172730	TT	AA	1946840891
SNP_P4_68779_4172776	NC_021164.1	Ca_kabuli_chr05	4172776	AA	GG	1946840893
SNP_P4_68780_4172823	NC_021164.1	Ca_kabuli_chr05	4172823	AA	GG	1946840895
SNP_P4_68781_4176329	NC_021164.1	Ca_kabuli_chr05	4176329	AA	TT	1946840897
SNP_P4_68782_4176341	NC_021164.1	Ca_kabuli_chr05	4176341	CC	GG	1946840899
SNP_P4_68783_4176346	NC_021164.1	Ca_kabuli_chr05	4176346	AA	GG	1946840901
SNP_P4_68784_4178539	NC_021164.1	Ca_kabuli_chr05	4178539	TT	GG	1946840903
SNP_P4_68785_4179112	NC_021164.1	Ca_kabuli_chr05	4179112	TT	GG	1946840905
SNP_P4_68786_4179186	NC_021164.1	Ca_kabuli_chr05	4179186	GG	AA	1946840907
SNP_P4_68787_4179222	NC_021164.1	Ca_kabuli_chr05	4179222	GG	CC	1946840909
SNP_P4_68790_4182339	NC_021164.1	Ca_kabuli_chr05	4182339	AA	TT	1946840911
SNP_P4_68791_4182340	NC_021164.1	Ca_kabuli_chr05	4182340	GG	AA	1946840913
SNP_P4_68792_4185719	NC_021164.1	Ca_kabuli_chr05	4185719	CC	TT	1946840915
SNP_P4_68793_4192401	NC_021164.1	Ca_kabuli_chr05	4192401	GG	CC	1946840917
SNP_P4_68794_4192403	NC_021164.1	Ca_kabuli_chr05	4192403	AA	GG	1946840919
SNP_P4_68795_4192414	NC_021164.1	Ca_kabuli_chr05	4192414	TT	CC	1946840921
SNP_P4_68796_4192434	NC_021164.1	Ca_kabuli_chr05	4192434	AA	CC	1946840923
SNP_P4_68797_4194084	NC_021164.1	Ca_kabuli_chr05	4194084	AA	GG	1946840925
SNP_P4_68798_4194086	NC_021164.1	Ca_kabuli_chr05	4194086	AA	TT	1946840927
SNP_P4_68799_4194091	NC_021164.1	Ca_kabuli_chr05	4194091	TT	GG	1946840929
SNP_P4_68800_4194116	NC_021164.1	Ca_kabuli_chr05	4194116	AA	CC	1946840931
SNP_P4_68801_4194117	NC_021164.1	Ca_kabuli_chr05	4194117	GG	AA	1946840933
SNP_P4_68802_4194130	NC_021164.1	Ca_kabuli_chr05	4194130	AA	CC	1946840935
SNP_P4_68803_4194131	NC_021164.1	Ca_kabuli_chr05	4194131	GG	AA	1946840937
SNP_P4_68804_4194133	NC_021164.1	Ca_kabuli_chr05	4194133	CC	GG	1946840939
SNP_P4_68805_4198567	NC_021164.1	Ca_kabuli_chr05	4198567	AA	GG	1946840941
SNP_P4_68806_4198593	NC_021164.1	Ca_kabuli_chr05	4198593	GG	AA	1946840943
SNP_P4_68807_4198598	NC_021164.1	Ca_kabuli_chr05	4198598	TT	CC	1946840945
SNP_P4_68808_4211447	NC_021164.1	Ca_kabuli_chr05	4211447	AA	GG	1946840947
SNP_P4_68809_4212401	NC_021164.1	Ca_kabuli_chr05	4212401	GG	AA	1946840949
SNP_P4_68810_4212626	NC_021164.1	Ca_kabuli_chr05	4212626	GG	AA	1946840951
SNP_P4_68811_4212663	NC_021164.1	Ca_kabuli_chr05	4212663	TT	CC	1946840953
SNP_P4_68812_4212757	NC_021164.1	Ca_kabuli_chr05	4212757	TT	GG	1946840955

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_68813_4213199	NC_021164.1	Ca_kabuli_chr05	4213199	AA	GG	1946840957
SNP_P4_68814_4213205	NC_021164.1	Ca_kabuli_chr05	4213205	AA	GG	1946840959
SNP_P4_68815_4219744	NC_021164.1	Ca_kabuli_chr05	4219744	AA	GG	1946840961
SNP_P4_68816_4219809	NC_021164.1	Ca_kabuli_chr05	4219809	CC	AA	1946840963
SNP_P4_68817_4219843	NC_021164.1	Ca_kabuli_chr05	4219843	GG	AA	1946840965
SNP_P4_68818_4219858	NC_021164.1	Ca_kabuli_chr05	4219858	GG	TT	1946840967
SNP_P4_68819_4219867	NC_021164.1	Ca_kabuli_chr05	4219867	AA	CC	1946840969
SNP_P4_68820_4219913	NC_021164.1	Ca_kabuli_chr05	4219913	AA	CC	1946840971
SNP_P4_68821_4219927	NC_021164.1	Ca_kabuli_chr05	4219927	CC	GG	1946840973
SNP_P4_68822_4220036	NC_021164.1	Ca_kabuli_chr05	4220036	TT	CC	1946840975
SNP_P4_68823_4220114	NC_021164.1	Ca_kabuli_chr05	4220114	AA	GG	1946840977
SNP_P4_68824_4220212	NC_021164.1	Ca_kabuli_chr05	4220212	CC	TT	1946840979
SNP_P4_68825_4220245	NC_021164.1	Ca_kabuli_chr05	4220245	GG	AA	1946840981
SNP_P4_68826_4221019	NC_021164.1	Ca_kabuli_chr05	4221019	AA	GG	1946840983
SNP_P4_68827_4221096	NC_021164.1	Ca_kabuli_chr05	4221096	AA	GG	1946840985
SNP_P4_68828_4222592	NC_021164.1	Ca_kabuli_chr05	4222592	TT	CC	1946840987
SNP_P4_68829_4222638	NC_021164.1	Ca_kabuli_chr05	4222638	TT	CC	1946840989
SNP_P4_68830_4222649	NC_021164.1	Ca_kabuli_chr05	4222649	AA	GG	1946840991
SNP_P4_68831_4222661	NC_021164.1	Ca_kabuli_chr05	4222661	AA	CC	1946840993
SNP_P4_68832_4222754	NC_021164.1	Ca_kabuli_chr05	4222754	GG	AA	1946840995
SNP_P4_68833_4222770	NC_021164.1	Ca_kabuli_chr05	4222770	AA	GG	1946840997
SNP_P4_68834_4222836	NC_021164.1	Ca_kabuli_chr05	4222836	CC	TT	1946840998
SNP_P4_68835_4222899	NC_021164.1	Ca_kabuli_chr05	4222899	AA	GG	1946841000
SNP_P4_68836_4223052	NC_021164.1	Ca_kabuli_chr05	4223052	AA	GG	1946841002
SNP_P4_68837_4223064	NC_021164.1	Ca_kabuli_chr05	4223064	GG	AA	1946841004
SNP_P4_68838_4223273	NC_021164.1	Ca_kabuli_chr05	4223273	CC	AA	1946841006
SNP_P4_68839_4223285	NC_021164.1	Ca_kabuli_chr05	4223285	AA	GG	1946841008
SNP_P4_68840_4225313	NC_021164.1	Ca_kabuli_chr05	4225313	TT	GG	1946841010
SNP_P4_68841_4231668	NC_021164.1	Ca_kabuli_chr05	4231668	AA	GG	1946841012
SNP_P4_68842_4231739	NC_021164.1	Ca_kabuli_chr05	4231739	GG	AA	1946841014
SNP_P4_68843_4231870	NC_021164.1	Ca_kabuli_chr05	4231870	GG	CC	1946841016
SNP_P4_68844_4231900	NC_021164.1	Ca_kabuli_chr05	4231900	TT	CC	1946841018
SNP_P4_68845_4231918	NC_021164.1	Ca_kabuli_chr05	4231918	AA	GG	1946841020
SNP_P4_68846_4233971	NC_021164.1	Ca_kabuli_chr05	4233971	GG	CC	1946841022
SNP_P4_68847_4234456	NC_021164.1	Ca_kabuli_chr05	4234456	CC	TT	1946841024
SNP_P4_68848_4237407	NC_021164.1	Ca_kabuli_chr05	4237407	TT	AA	1946841026
SNP_P4_68849_4238224	NC_021164.1	Ca_kabuli_chr05	4238224	AA	GG	1946841028
SNP_P4_68850_4238251	NC_021164.1	Ca_kabuli_chr05	4238251	GG	AA	1946841030
SNP_P4_68851_4238252	NC_021164.1	Ca_kabuli_chr05	4238252	AA	GG	1946841032
SNP_P4_68852_4238678	NC_021164.1	Ca_kabuli_chr05	4238678	TT	CC	1946841034
SNP_P4_68853_4238681	NC_021164.1	Ca_kabuli_chr05	4238681	TT	CC	1946841036
SNP_P4_68854_4242013	NC_021164.1	Ca_kabuli_chr05	4242013	GG	AA	1946841038

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_68856_4242096	NC_021164.1	Ca_kabuli_chr05	4242096	TT	GG	1946841043
SNP_P4_68857_4242265	NC_021164.1	Ca_kabuli_chr05	4242265	GG	AA	1946841045
SNP_P4_68858_4242318	NC_021164.1	Ca_kabuli_chr05	4242318	CC	TT	1946841047
SNP_P4_68859_4242339	NC_021164.1	Ca_kabuli_chr05	4242339	TT	AA	1946841049
SNP_P4_68860_4247753	NC_021164.1	Ca_kabuli_chr05	4247753	GG	TT	1946841051
SNP_P4_68861_4250201	NC_021164.1	Ca_kabuli_chr05	4250201	GG	AA	1946841052
SNP_P4_68862_4257261	NC_021164.1	Ca_kabuli_chr05	4257261	GG	AA	1946841054
SNP_P4_68863_4257285	NC_021164.1	Ca_kabuli_chr05	4257285	TT	CC	1946841056
SNP_P4_68864_4257286	NC_021164.1	Ca_kabuli_chr05	4257286	GG	AA	1946841058
SNP_P4_68865_4257562	NC_021164.1	Ca_kabuli_chr05	4257562	CC	TT	1946841060
SNP_P4_68866_4257575	NC_021164.1	Ca_kabuli_chr05	4257575	GG	CC	1946841062
SNP_P4_68867_4257597	NC_021164.1	Ca_kabuli_chr05	4257597	TT	GG	1946841064
SNP_P4_68868_4257610	NC_021164.1	Ca_kabuli_chr05	4257610	AA	GG	1946841066
SNP_P4_68869_4264060	NC_021164.1	Ca_kabuli_chr05	4264060	TT	CC	1946841068
SNP_P4_68870_4264080	NC_021164.1	Ca_kabuli_chr05	4264080	AA	CC	1946841070
SNP_P4_68871_4264292	NC_021164.1	Ca_kabuli_chr05	4264292	TT	AA	1946841072
SNP_P4_68872_4264301	NC_021164.1	Ca_kabuli_chr05	4264301	CC	AA	1946841074
SNP_P4_68873_4264323	NC_021164.1	Ca_kabuli_chr05	4264323	TT	AA	1946841076
SNP_P4_68874_4270193	NC_021164.1	Ca_kabuli_chr05	4270193	CC	TT	1946841078
SNP_P4_68875_4273010	NC_021164.1	Ca_kabuli_chr05	4273010	CC	AA	1946841080
SNP_P4_68876_4273019	NC_021164.1	Ca_kabuli_chr05	4273019	TT	CC	1946841082
SNP_P4_68877_4273459	NC_021164.1	Ca_kabuli_chr05	4273459	GG	AA	1946841084
SNP_P4_68880_4280725	NC_021164.1	Ca_kabuli_chr05	4280725	CC	AA	1946841086
SNP_P4_68881_4281095	NC_021164.1	Ca_kabuli_chr05	4281095	CC	GG	1946841088
SNP_P4_68882_4281096	NC_021164.1	Ca_kabuli_chr05	4281096	TT	CC	1946841090
SNP_P4_68883_4282906	NC_021164.1	Ca_kabuli_chr05	4282906	GG	TT	1946841092
SNP_P4_68884_4297732	NC_021164.1	Ca_kabuli_chr05	4297732	AA	CC	1946841094
SNP_P4_68885_4297737	NC_021164.1	Ca_kabuli_chr05	4297737	CC	TT	1946841096
SNP_P4_68886_4297824	NC_021164.1	Ca_kabuli_chr05	4297824	AA	GG	1946841098
SNP_P4_68887_4297870	NC_021164.1	Ca_kabuli_chr05	4297870	CC	TT	1946841100
SNP_P4_68888_4297914	NC_021164.1	Ca_kabuli_chr05	4297914	CC	TT	1946841102
SNP_P4_68889_4297967	NC_021164.1	Ca_kabuli_chr05	4297967	AA	GG	1946841104
SNP_P4_68890_4298054	NC_021164.1	Ca_kabuli_chr05	4298054	AA	GG	1946841106
SNP_P4_68891_4298070	NC_021164.1	Ca_kabuli_chr05	4298070	TT	CC	1946841108
SNP_P4_68892_4301703	NC_021164.1	Ca_kabuli_chr05	4301703	GG	AA	1946841110
SNP_P4_68893_4313525	NC_021164.1	Ca_kabuli_chr05	4313525	CC	TT	1946841112
SNP_P4_68894_4313563	NC_021164.1	Ca_kabuli_chr05	4313563	TT	CC	1946841114
SNP_P4_68895_4314623	NC_021164.1	Ca_kabuli_chr05	4314623	GG	AA	1946841116
SNP_P4_68896_4314908	NC_021164.1	Ca_kabuli_chr05	4314908	GG	TT	1946841118
SNP_P4_68897_4314909	NC_021164.1	Ca_kabuli_chr05	4314909	TT	AA	1946841120
SNP_P4_68898_4315393	NC_021164.1	Ca_kabuli_chr05	4315393	AA	GG	1946841122

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_68900_4317061	NC_021164.1	Ca_kabuli_chr05	4317061	GG	AA	1946841125
SNP_P4_68901_4317068	NC_021164.1	Ca_kabuli_chr05	4317068	AA	GG	1946841127
SNP_P4_68902_4324037	NC_021164.1	Ca_kabuli_chr05	4324037	AA	GG	1946841129
SNP_P4_68903_4357204	NC_021164.1	Ca_kabuli_chr05	4357204	GG	TT	1946841131
SNP_P4_68904_4375937	NC_021164.1	Ca_kabuli_chr05	4375937	GG	AA	1946841133
SNP_P4_68905_4377432	NC_021164.1	Ca_kabuli_chr05	4377432	CC	TT	1946841135
SNP_P4_68906_4377456	NC_021164.1	Ca_kabuli_chr05	4377456	AA	GG	1946841137
SNP_P4_68907_4377509	NC_021164.1	Ca_kabuli_chr05	4377509	CC	TT	1946841138
SNP_P4_68908_4378807	NC_021164.1	Ca_kabuli_chr05	4378807	GG	AA	1946841140
SNP_P4_68909_4379449	NC_021164.1	Ca_kabuli_chr05	4379449	CC	TT	1946841142
SNP_P4_68910_4379477	NC_021164.1	Ca_kabuli_chr05	4379477	CC	AA	1946841144
SNP_P4_68911_4379984	NC_021164.1	Ca_kabuli_chr05	4379984	AA	GG	1946841146
SNP_P4_68914_4398803	NC_021164.1	Ca_kabuli_chr05	4398803	GG	AA	1946841148
SNP_P4_68915_4417470	NC_021164.1	Ca_kabuli_chr05	4417470	TT	AA	1946841150
SNP_P4_68916_4430777	NC_021164.1	Ca_kabuli_chr05	4430777	CC	TT	1946841152
SNP_P4_68917_4433503	NC_021164.1	Ca_kabuli_chr05	4433503	CC	AA	1946841154
SNP_P4_68918_4433506	NC_021164.1	Ca_kabuli_chr05	4433506	TT	CC	1946841156
SNP_P4_68919_4433515	NC_021164.1	Ca_kabuli_chr05	4433515	AA	TT	1946841158
SNP_P4_68920_4433759	NC_021164.1	Ca_kabuli_chr05	4433759	TT	CC	1946841160
SNP_P4_68921_4433783	NC_021164.1	Ca_kabuli_chr05	4433783	TT	AA	1946841162
SNP_P4_68922_4433829	NC_021164.1	Ca_kabuli_chr05	4433829	GG	AA	1946841164
SNP_P4_68923_4434019	NC_021164.1	Ca_kabuli_chr05	4434019	TT	GG	1946841166
SNP_P4_68924_4437038	NC_021164.1	Ca_kabuli_chr05	4437038	GG	CC	1946841168
SNP_P4_68925_4483791	NC_021164.1	Ca_kabuli_chr05	4483791	CC	AA	1946841171
SNP_P4_68926_4485787	NC_021164.1	Ca_kabuli_chr05	4485787	AA	CC	1946841173
SNP_P4_68927_4487227	NC_021164.1	Ca_kabuli_chr05	4487227	AA	GG	1946841175
SNP_P4_68928_4507718	NC_021164.1	Ca_kabuli_chr05	4507718	CC	AA	1946841177
SNP_P4_68929_4507719	NC_021164.1	Ca_kabuli_chr05	4507719	TT	AA	1946841179
SNP_P4_68930_4521983	NC_021164.1	Ca_kabuli_chr05	4521983	GG	AA	1946841181
SNP_P4_68931_4536055	NC_021164.1	Ca_kabuli_chr05	4536055	AA	GG	1946841183
SNP_P4_68932_4536846	NC_021164.1	Ca_kabuli_chr05	4536846	AA	TT	1946841185
SNP_P4_68933_4541683	NC_021164.1	Ca_kabuli_chr05	4541683	AA	GG	1946841187
SNP_P4_68934_4542018	NC_021164.1	Ca_kabuli_chr05	4542018	TT	GG	1946841189
SNP_P4_68935_4542076	NC_021164.1	Ca_kabuli_chr05	4542076	GG	AA	1946841191
SNP_P4_68936_4542198	NC_021164.1	Ca_kabuli_chr05	4542198	CC	GG	1946841193
SNP_P4_68937_4542224	NC_021164.1	Ca_kabuli_chr05	4542224	TT	CC	1946841195
SNP_P4_68938_4542230	NC_021164.1	Ca_kabuli_chr05	4542230	GG	TT	1946841197
SNP_P4_68939_4543735	NC_021164.1	Ca_kabuli_chr05	4543735	CC	AA	1946841199
SNP_P4_68940_4543859	NC_021164.1	Ca_kabuli_chr05	4543859	AA	CC	1946841201
SNP_P4_68941_4545796	NC_021164.1	Ca_kabuli_chr05	4545796	GG	AA	1946841203
SNP_P4_68943_4552588	NC_021164.1	Ca_kabuli_chr05	4552588	GG	AA	1946841206

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_68946_4616014	NC_021164.1	Ca_kabuli_chr05	4616014	TT	CC	1946841210
SNP_P4_68947_4616269	NC_021164.1	Ca_kabuli_chr05	4616269	AA	CC	1946841212
SNP_P4_68948_4616270	NC_021164.1	Ca_kabuli_chr05	4616270	AA	GG	1946841214
SNP_P4_68949_4616298	NC_021164.1	Ca_kabuli_chr05	4616298	AA	CC	1946841216
SNP_P4_68950_4616303	NC_021164.1	Ca_kabuli_chr05	4616303	AA	TT	1946841218
SNP_P4_68951_4616334	NC_021164.1	Ca_kabuli_chr05	4616334	AA	GG	1946841220
SNP_P4_68952_4616451	NC_021164.1	Ca_kabuli_chr05	4616451	TT	CC	1946841222
SNP_P4_68953_4616456	NC_021164.1	Ca_kabuli_chr05	4616456	AA	GG	1946841224
SNP_P4_68954_4620723	NC_021164.1	Ca_kabuli_chr05	4620723	GG	AA	1946841226
SNP_P4_68955_4620782	NC_021164.1	Ca_kabuli_chr05	4620782	TT	CC	1946841228
SNP_P4_68956_4670636	NC_021164.1	Ca_kabuli_chr05	4670636	CC	TT	1946841229
SNP_P4_68957_4673199	NC_021164.1	Ca_kabuli_chr05	4673199	TT	CC	1946841231
SNP_P4_68958_4673215	NC_021164.1	Ca_kabuli_chr05	4673215	GG	AA	1946841233
SNP_P4_68959_4673220	NC_021164.1	Ca_kabuli_chr05	4673220	AA	GG	1946841235
SNP_P4_68960_4673246	NC_021164.1	Ca_kabuli_chr05	4673246	CC	TT	1946841237
SNP_P4_68961_4673279	NC_021164.1	Ca_kabuli_chr05	4673279	AA	TT	1946841239
SNP_P4_68962_4673285	NC_021164.1	Ca_kabuli_chr05	4673285	TT	AA	1946841241
SNP_P4_68963_4678114	NC_021164.1	Ca_kabuli_chr05	4678114	TT	GG	1946841243
SNP_P4_68964_4678267	NC_021164.1	Ca_kabuli_chr05	4678267	GG	AA	1946841245
SNP_P4_68965_4678281	NC_021164.1	Ca_kabuli_chr05	4678281	CC	GG	1946841247
SNP_P4_68966_4678318	NC_021164.1	Ca_kabuli_chr05	4678318	TT	AA	1946841249
SNP_P4_68967_4678539	NC_021164.1	Ca_kabuli_chr05	4678539	TT	GG	1946841251
SNP_P4_68968_4681520	NC_021164.1	Ca_kabuli_chr05	4681520	GG	CC	1946841253
SNP_P4_68969_4689247	NC_021164.1	Ca_kabuli_chr05	4689247	AA	CC	1946841255
SNP_P4_68970_4689578	NC_021164.1	Ca_kabuli_chr05	4689578	TT	GG	1946841256
SNP_P4_68971_4690461	NC_021164.1	Ca_kabuli_chr05	4690461	AA	TT	1946841258
SNP_P4_68972_4711673	NC_021164.1	Ca_kabuli_chr05	4711673	GG	AA	1946841260
SNP_P4_68973_4713421	NC_021164.1	Ca_kabuli_chr05	4713421	CC	TT	1946841262
SNP_P4_68974_4713707	NC_021164.1	Ca_kabuli_chr05	4713707	TT	GG	1946841264
SNP_P4_68975_4727024	NC_021164.1	Ca_kabuli_chr05	4727024	CC	TT	1946841266
SNP_P4_68976_4727076	NC_021164.1	Ca_kabuli_chr05	4727076	GG	CC	1946841268
SNP_P4_68977_4730857	NC_021164.1	Ca_kabuli_chr05	4730857	CC	TT	1946841270
SNP_P4_68978_4730928	NC_021164.1	Ca_kabuli_chr05	4730928	TT	CC	1946841272
SNP_P4_68979_4731052	NC_021164.1	Ca_kabuli_chr05	4731052	GG	AA	1946841274
SNP_P4_68980_4731379	NC_021164.1	Ca_kabuli_chr05	4731379	TT	CC	1946841276
SNP_P4_68981_4731531	NC_021164.1	Ca_kabuli_chr05	4731531	TT	CC	1946841278
SNP_P4_68982_4731615	NC_021164.1	Ca_kabuli_chr05	4731615	AA	GG	1946841280
SNP_P4_68983_4731679	NC_021164.1	Ca_kabuli_chr05	4731679	AA	CC	1946841282
SNP_P4_68984_4737099	NC_021164.1	Ca_kabuli_chr05	4737099	GG	AA	1946841284
SNP_P4_68985_4737110	NC_021164.1	Ca_kabuli_chr05	4737110	AA	CC	1946841286
SNP_P4_68986_4737129	NC_021164.1	Ca_kabuli_chr05	4737129	GG	AA	1946841288

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_68988_4747911	NC_021164.1	Ca_kabuli_chr05	4747911	TT	CC	1946841292
SNP_P4_68989_4747981	NC_021164.1	Ca_kabuli_chr05	4747981	AA	TT	1946841294
SNP_P4_68990_4748102	NC_021164.1	Ca_kabuli_chr05	4748102	TT	CC	1946841296
SNP_P4_68991_4748760	NC_021164.1	Ca_kabuli_chr05	4748760	TT	AA	1946841298
SNP_P4_68992_4750975	NC_021164.1	Ca_kabuli_chr05	4750975	TT	CC	1946841300
SNP_P4_68993_4750995	NC_021164.1	Ca_kabuli_chr05	4750995	AA	GG	1946841302
SNP_P4_68994_4751874	NC_021164.1	Ca_kabuli_chr05	4751874	TT	GG	1946841304
SNP_P4_68995_4762755	NC_021164.1	Ca_kabuli_chr05	4762755	AA	GG	1946841306
SNP_P4_68996_4763105	NC_021164.1	Ca_kabuli_chr05	4763105	GG	AA	1946841308
SNP_P4_68997_4763141	NC_021164.1	Ca_kabuli_chr05	4763141	CC	GG	1946841310
SNP_P4_68998_4763146	NC_021164.1	Ca_kabuli_chr05	4763146	GG	AA	1946841312
SNP_P4_68999_4763170	NC_021164.1	Ca_kabuli_chr05	4763170	CC	TT	1946841314
SNP_P4_69000_4767646	NC_021164.1	Ca_kabuli_chr05	4767646	AA	GG	1946841316
SNP_P4_69001_4767713	NC_021164.1	Ca_kabuli_chr05	4767713	TT	CC	1946841318
SNP_P4_69002_4768004	NC_021164.1	Ca_kabuli_chr05	4768004	AA	TT	1946841320
SNP_P4_69003_4768020	NC_021164.1	Ca_kabuli_chr05	4768020	GG	TT	1946841322
SNP_P4_69004_4768040	NC_021164.1	Ca_kabuli_chr05	4768040	AA	GG	1946841324
SNP_P4_69005_4768427	NC_021164.1	Ca_kabuli_chr05	4768427	TT	CC	1946841326
SNP_P4_69006_4768442	NC_021164.1	Ca_kabuli_chr05	4768442	TT	CC	1946841328
SNP_P4_69007_4768622	NC_021164.1	Ca_kabuli_chr05	4768622	AA	GG	1946841330
SNP_P4_69008_4768638	NC_021164.1	Ca_kabuli_chr05	4768638	GG	TT	1946841332
SNP_P4_69009_4768667	NC_021164.1	Ca_kabuli_chr05	4768667	TT	CC	1946841334
SNP_P4_69010_4768668	NC_021164.1	Ca_kabuli_chr05	4768668	AA	TT	1946841336
SNP_P4_69011_4768703	NC_021164.1	Ca_kabuli_chr05	4768703	GG	AA	1946841338
SNP_P4_69012_4768706	NC_021164.1	Ca_kabuli_chr05	4768706	CC	TT	1946841340
SNP_P4_69013_4768709	NC_021164.1	Ca_kabuli_chr05	4768709	TT	CC	1946841342
SNP_P4_69014_4768712	NC_021164.1	Ca_kabuli_chr05	4768712	GG	CC	1946841344
SNP_P4_69015_4768723	NC_021164.1	Ca_kabuli_chr05	4768723	GG	AA	1946841346
SNP_P4_69016_4768730	NC_021164.1	Ca_kabuli_chr05	4768730	CC	TT	1946841348
SNP_P4_69017_4768757	NC_021164.1	Ca_kabuli_chr05	4768757	AA	GG	1946841350
SNP_P4_69018_4768802	NC_021164.1	Ca_kabuli_chr05	4768802	TT	CC	1946841352
SNP_P4_69019_4786669	NC_021164.1	Ca_kabuli_chr05	4786669	TT	CC	1946841354
SNP_P4_69020_4793965	NC_021164.1	Ca_kabuli_chr05	4793965	CC	TT	1946841356
SNP_P4_69021_4794649	NC_021164.1	Ca_kabuli_chr05	4794649	CC	TT	1946841358
SNP_P4_69022_4794650	NC_021164.1	Ca_kabuli_chr05	4794650	AA	GG	1946841360
SNP_P4_69023_4794656	NC_021164.1	Ca_kabuli_chr05	4794656	TT	CC	1946841362
SNP_P4_69024_4794657	NC_021164.1	Ca_kabuli_chr05	4794657	GG	TT	1946841364
SNP_P4_69025_4794743	NC_021164.1	Ca_kabuli_chr05	4794743	GG	AA	1946841366
SNP_P4_69026_4808596	NC_021164.1	Ca_kabuli_chr05	4808596	CC	AA	1946841368
SNP_P4_69028_4830568	NC_021164.1	Ca_kabuli_chr05	4830568	TT	CC	1946841370
SNP_P4_69029_4832418	NC_021164.1	Ca_kabuli_chr05	4832418	TT	CC	1946841372

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_69030_4832610	NC_021164.1	Ca_kabuli_chr05	4832610	CC	TT	1946841374
SNP_P4_69031_4833910	NC_021164.1	Ca_kabuli_chr05	4833910	AA	GG	1946841376
SNP_P4_69032_4833957	NC_021164.1	Ca_kabuli_chr05	4833957	AA	GG	1946841378
SNP_P4_69033_4833982	NC_021164.1	Ca_kabuli_chr05	4833982	TT	AA	1946841380
SNP_P4_69034_4856044	NC_021164.1	Ca_kabuli_chr05	4856044	GG	AA	1946841382
SNP_P4_69035_4856183	NC_021164.1	Ca_kabuli_chr05	4856183	TT	CC	1946841384
SNP_P4_69036_4856227	NC_021164.1	Ca_kabuli_chr05	4856227	AA	GG	1946841386
SNP_P4_69037_4856228	NC_021164.1	Ca_kabuli_chr05	4856228	GG	TT	1946841388
SNP_P4_69038_4856253	NC_021164.1	Ca_kabuli_chr05	4856253	GG	AA	1946841390
SNP_P4_69039_4856291	NC_021164.1	Ca_kabuli_chr05	4856291	CC	TT	1946841392
SNP_P4_69040_4856543	NC_021164.1	Ca_kabuli_chr05	4856543	AA	CC	1946841394
SNP_P4_69041_4856977	NC_021164.1	Ca_kabuli_chr05	4856977	AA	GG	1946841396
SNP_P4_69043_4857288	NC_021164.1	Ca_kabuli_chr05	4857288	AA	CC	1946841398
SNP_P4_69044_4869275	NC_021164.1	Ca_kabuli_chr05	4869275	AA	GG	1946841401
SNP_P4_69045_4869298	NC_021164.1	Ca_kabuli_chr05	4869298	TT	CC	1946841403
SNP_P4_69046_4869935	NC_021164.1	Ca_kabuli_chr05	4869935	CC	TT	1946841405
SNP_P4_69047_4870151	NC_021164.1	Ca_kabuli_chr05	4870151	TT	CC	1946841407
SNP_P4_69048_4870185	NC_021164.1	Ca_kabuli_chr05	4870185	GG	AA	1946841409
SNP_P4_69049_4870492	NC_021164.1	Ca_kabuli_chr05	4870492	CC	TT	1946841411
SNP_P4_69050_4870528	NC_021164.1	Ca_kabuli_chr05	4870528	GG	AA	1946841413
SNP_P4_69051_4870537	NC_021164.1	Ca_kabuli_chr05	4870537	GG	AA	1946841415
SNP_P4_69052_4870563	NC_021164.1	Ca_kabuli_chr05	4870563	AA	TT	1946841417
SNP_P4_69054_4882901	NC_021164.1	Ca_kabuli_chr05	4882901	CC	TT	1946841419
SNP_P4_69055_4884844	NC_021164.1	Ca_kabuli_chr05	4884844	TT	GG	1946841421
SNP_P4_69056_4885274	NC_021164.1	Ca_kabuli_chr05	4885274	GG	TT	1946841423
SNP_P4_69057_4907892	NC_021164.1	Ca_kabuli_chr05	4907892	GG	AA	1946841425
SNP_P4_69058_4908598	NC_021164.1	Ca_kabuli_chr05	4908598	GG	TT	1946841427
SNP_P4_69059_4909195	NC_021164.1	Ca_kabuli_chr05	4909195	TT	CC	1946841429
SNP_P4_69060_4955590	NC_021164.1	Ca_kabuli_chr05	4955590	CC	AA	1946841431
SNP_P4_69061_4955609	NC_021164.1	Ca_kabuli_chr05	4955609	TT	CC	1946841433
SNP_P4_69062_4957941	NC_021164.1	Ca_kabuli_chr05	4957941	CC	TT	1946841435
SNP_P4_69063_4959519	NC_021164.1	Ca_kabuli_chr05	4959519	AA	CC	1946841437
SNP_P4_69064_4959559	NC_021164.1	Ca_kabuli_chr05	4959559	CC	TT	1946841439
SNP_P4_69065_4961707	NC_021164.1	Ca_kabuli_chr05	4961707	GG	AA	1946841441
SNP_P4_69066_4962394	NC_021164.1	Ca_kabuli_chr05	4962394	CC	AA	1946841443
SNP_P4_69067_4969348	NC_021164.1	Ca_kabuli_chr05	4969348	TT	CC	1946841445
SNP_P4_69068_4969350	NC_021164.1	Ca_kabuli_chr05	4969350	TT	CC	1946841447
SNP_P4_69069_4969579	NC_021164.1	Ca_kabuli_chr05	4969579	CC	TT	1946841449
SNP_P4_69070_4969655	NC_021164.1	Ca_kabuli_chr05	4969655	AA	GG	1946841451
SNP_P4_69071_4969686	NC_021164.1	Ca_kabuli_chr05	4969686	AA	TT	1946841453
SNP_P4_69072_4969758	NC_021164.1	Ca_kabuli_chr05	4969758	AA	GG	1946841455
SNP_P4_69073_4969792	NC_021164.1	Ca_kabuli_chr05	4969792	AA	GG	1946841457

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_69075_4970495	NC_021164.1	Ca_kabuli_chr05	4970495	CC	TT	1946841459
SNP_P4_69079_5052229	NC_021164.1	Ca_kabuli_chr05	5052229	TT	GG	1946841461
SNP_P4_69080_5054177	NC_021164.1	Ca_kabuli_chr05	5054177	TT	CC	1946841463
SNP_P4_69081_5077249	NC_021164.1	Ca_kabuli_chr05	5077249	CC	GG	1946841465
SNP_P4_69082_5083388	NC_021164.1	Ca_kabuli_chr05	5083388	GG	AA	1946841467
SNP_P4_69083_5122433	NC_021164.1	Ca_kabuli_chr05	5122433	CC	TT	1946841469
SNP_P4_69084_5133905	NC_021164.1	Ca_kabuli_chr05	5133905	GG	AA	1946841471
SNP_P4_69085_5147401	NC_021164.1	Ca_kabuli_chr05	5147401	TT	CC	1946841473
SNP_P4_69086_5157166	NC_021164.1	Ca_kabuli_chr05	5157166	GG	AA	1946841475
SNP_P4_69088_5193962	NC_021164.1	Ca_kabuli_chr05	5193962	CC	TT	1946841477
SNP_P4_69089_5194011	NC_021164.1	Ca_kabuli_chr05	5194011	AA	GG	1946841479
SNP_P4_69090_5194030	NC_021164.1	Ca_kabuli_chr05	5194030	GG	TT	1946841481
SNP_P4_69091_5194031	NC_021164.1	Ca_kabuli_chr05	5194031	AA	GG	1946841483
SNP_P4_69092_5194049	NC_021164.1	Ca_kabuli_chr05	5194049	AA	GG	1946841485
SNP_P4_69093_5194096	NC_021164.1	Ca_kabuli_chr05	5194096	TT	CC	1946841487
SNP_P4_69094_5194103	NC_021164.1	Ca_kabuli_chr05	5194103	TT	CC	1946841489
SNP_P4_69095_5194128	NC_021164.1	Ca_kabuli_chr05	5194128	TT	CC	1946841491
SNP_P4_69096_5194140	NC_021164.1	Ca_kabuli_chr05	5194140	TT	GG	1946841493
SNP_P4_69097_5194142	NC_021164.1	Ca_kabuli_chr05	5194142	TT	AA	1946841495
SNP_P4_69098_5194168	NC_021164.1	Ca_kabuli_chr05	5194168	TT	CC	1946841497
SNP_P4_69099_5194177	NC_021164.1	Ca_kabuli_chr05	5194177	AA	GG	1946841499
SNP_P4_69101_5269099	NC_021164.1	Ca_kabuli_chr05	5269099	AA	CC	1946841501
SNP_P4_69102_5269122	NC_021164.1	Ca_kabuli_chr05	5269122	TT	CC	1946841503
SNP_P4_69103_5269137	NC_021164.1	Ca_kabuli_chr05	5269137	AA	GG	1946841504
SNP_P4_69104_5269149	NC_021164.1	Ca_kabuli_chr05	5269149	GG	TT	1946841505
SNP_P4_69105_5269155	NC_021164.1	Ca_kabuli_chr05	5269155	AA	TT	1946841506
SNP_P4_69106_5269158	NC_021164.1	Ca_kabuli_chr05	5269158	GG	AA	1946841507
SNP_P4_69107_5269228	NC_021164.1	Ca_kabuli_chr05	5269228	TT	AA	1946841508
SNP_P4_69108_5269291	NC_021164.1	Ca_kabuli_chr05	5269291	AA	GG	1946841509
SNP_P4_69109_5284779	NC_021164.1	Ca_kabuli_chr05	5284779	CC	TT	1946841510
SNP_P4_69112_5297193	NC_021164.1	Ca_kabuli_chr05	5297193	CC	GG	1946841511
SNP_P4_69113_5298648	NC_021164.1	Ca_kabuli_chr05	5298648	TT	CC	1946841513
SNP_P4_69114_5299414	NC_021164.1	Ca_kabuli_chr05	5299414	CC	GG	1946841515
SNP_P4_69115_5299448	NC_021164.1	Ca_kabuli_chr05	5299448	CC	TT	1946841516
SNP_P4_69116_5299472	NC_021164.1	Ca_kabuli_chr05	5299472	CC	TT	1946841518
SNP_P4_69117_5299505	NC_021164.1	Ca_kabuli_chr05	5299505	CC	TT	1946841520
SNP_P4_69118_5299520	NC_021164.1	Ca_kabuli_chr05	5299520	TT	CC	1946841523
SNP_P4_69119_5299687	NC_021164.1	Ca_kabuli_chr05	5299687	AA	GG	1946841525
SNP_P4_69120_5299767	NC_021164.1	Ca_kabuli_chr05	5299767	TT	CC	1946841527
SNP_P4_69121_5299771	NC_021164.1	Ca_kabuli_chr05	5299771	TT	CC	1946841529
SNP_P4_69122_5299830	NC_021164.1	Ca_kabuli_chr05	5299830	AA	GG	1946841531
SNP_P4_69123_5299870	NC_021164.1	Ca_kabuli_chr05	5299870	AA	CC	1946841533

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_69125_5299883	NC_021164.1	Ca_kabuli_chr05	5299883	TT	CC	1946841537
SNP_P4_69126_5299898	NC_021164.1	Ca_kabuli_chr05	5299898	TT	CC	1946841539
SNP_P4_69127_5299936	NC_021164.1	Ca_kabuli_chr05	5299936	AA	GG	1946841541
SNP_P4_69128_5300036	NC_021164.1	Ca_kabuli_chr05	5300036	TT	CC	1946841543
SNP_P4_69129_5300041	NC_021164.1	Ca_kabuli_chr05	5300041	GG	TT	1946841545
SNP_P4_69131_5318972	NC_021164.1	Ca_kabuli_chr05	5318972	CC	GG	1946841547
SNP_P4_69132_5350609	NC_021164.1	Ca_kabuli_chr05	5350609	CC	AA	1946841549
SNP_P4_69133_5352379	NC_021164.1	Ca_kabuli_chr05	5352379	CC	TT	1946841551
SNP_P4_69134_5352903	NC_021164.1	Ca_kabuli_chr05	5352903	TT	CC	1946841553
SNP_P4_69135_5352983	NC_021164.1	Ca_kabuli_chr05	5352983	TT	AA	1946841555
SNP_P4_69136_5353002	NC_021164.1	Ca_kabuli_chr05	5353002	CC	TT	1946841557
SNP_P4_69137_5363215	NC_021164.1	Ca_kabuli_chr05	5363215	TT	GG	1946841559
SNP_P4_69138_5363260	NC_021164.1	Ca_kabuli_chr05	5363260	TT	GG	1946841561
SNP_P4_69139_5363282	NC_021164.1	Ca_kabuli_chr05	5363282	TT	CC	1946841563
SNP_P4_69140_5363286	NC_021164.1	Ca_kabuli_chr05	5363286	CC	GG	1946841565
SNP_P4_69141_5363375	NC_021164.1	Ca_kabuli_chr05	5363375	AA	CC	1946841567
SNP_P4_69142_5363419	NC_021164.1	Ca_kabuli_chr05	5363419	TT	CC	1946841569
SNP_P4_69143_5363524	NC_021164.1	Ca_kabuli_chr05	5363524	TT	GG	1946841571
SNP_P4_69144_5363545	NC_021164.1	Ca_kabuli_chr05	5363545	AA	CC	1946841573
SNP_P4_69145_5363665	NC_021164.1	Ca_kabuli_chr05	5363665	GG	AA	1946841576
SNP_P4_69146_5364897	NC_021164.1	Ca_kabuli_chr05	5364897	GG	AA	1946841578
SNP_P4_69147_5364909	NC_021164.1	Ca_kabuli_chr05	5364909	TT	CC	1946841580
SNP_P4_69148_5366159	NC_021164.1	Ca_kabuli_chr05	5366159	CC	TT	1946841582
SNP_P4_69149_5366545	NC_021164.1	Ca_kabuli_chr05	5366545	AA	GG	1946841584
SNP_P4_69150_5371447	NC_021164.1	Ca_kabuli_chr05	5371447	GG	AA	1946841586
SNP_P4_69151_5372397	NC_021164.1	Ca_kabuli_chr05	5372397	GG	AA	1946841588
SNP_P4_69154_5422053	NC_021164.1	Ca_kabuli_chr05	5422053	CC	TT	1946841590
SNP_P4_69155_5425215	NC_021164.1	Ca_kabuli_chr05	5425215	GG	TT	1946841592
SNP_P4_69156_5425216	NC_021164.1	Ca_kabuli_chr05	5425216	AA	GG	1946841594
SNP_P4_69157_5425252	NC_021164.1	Ca_kabuli_chr05	5425252	GG	TT	1946841596
SNP_P4_69158_5425455	NC_021164.1	Ca_kabuli_chr05	5425455	GG	AA	1946841598
SNP_P4_69159_5425483	NC_021164.1	Ca_kabuli_chr05	5425483	GG	AA	1946841599
SNP_P4_69160_5425485	NC_021164.1	Ca_kabuli_chr05	5425485	TT	CC	1946841601
SNP_P4_69161_5436551	NC_021164.1	Ca_kabuli_chr05	5436551	AA	GG	1946841603
SNP_P4_69162_5458039	NC_021164.1	Ca_kabuli_chr05	5458039	GG	AA	1946841605
SNP_P4_69163_5465686	NC_021164.1	Ca_kabuli_chr05	5465686	AA	TT	1946841607
SNP_P4_69164_5474756	NC_021164.1	Ca_kabuli_chr05	5474756	GG	TT	1946841609
SNP_P4_69166_5499149	NC_021164.1	Ca_kabuli_chr05	5499149	CC	TT	1946841611
SNP_P4_69167_5502688	NC_021164.1	Ca_kabuli_chr05	5502688	GG	CC	1946841613
SNP_P4_69168_5503920	NC_021164.1	Ca_kabuli_chr05	5503920	CC	TT	1946841615
SNP_P4_69169_5504068	NC_021164.1	Ca_kabuli_chr05	5504068	TT	CC	1946841617

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_69170_5534153	NC_021164.1	Ca_kabuli_chr05	5534153	AA	GG	1946841619
SNP_P4_69171_5534354	NC_021164.1	Ca_kabuli_chr05	5534354	TT	GG	1946841621
SNP_P4_69172_5534367	NC_021164.1	Ca_kabuli_chr05	5534367	CC	TT	1946841623
SNP_P4_69173_5570051	NC_021164.1	Ca_kabuli_chr05	5570051	TT	CC	1946841625
SNP_P4_69174_5580660	NC_021164.1	Ca_kabuli_chr05	5580660	AA	GG	1946841627
SNP_P4_69175_5585095	NC_021164.1	Ca_kabuli_chr05	5585095	CC	TT	1946841629
SNP_P4_69176_5586003	NC_021164.1	Ca_kabuli_chr05	5586003	TT	CC	1946841631
SNP_P4_69177_5586104	NC_021164.1	Ca_kabuli_chr05	5586104	AA	GG	1946841633
SNP_P4_69178_5586111	NC_021164.1	Ca_kabuli_chr05	5586111	CC	GG	1946841635
SNP_P4_69179_5586245	NC_021164.1	Ca_kabuli_chr05	5586245	GG	TT	1946841637
SNP_P4_69180_5586247	NC_021164.1	Ca_kabuli_chr05	5586247	TT	CC	1946841639
SNP_P4_69181_5586251	NC_021164.1	Ca_kabuli_chr05	5586251	CC	TT	1946841641
SNP_P4_69182_5586412	NC_021164.1	Ca_kabuli_chr05	5586412	CC	TT	1946841643
SNP_P4_69183_5586416	NC_021164.1	Ca_kabuli_chr05	5586416	GG	TT	1946841645
SNP_P4_69184_5590660	NC_021164.1	Ca_kabuli_chr05	5590660	AA	GG	1946841647
SNP_P4_69185_5590827	NC_021164.1	Ca_kabuli_chr05	5590827	TT	GG	1946841649
SNP_P4_69186_5590860	NC_021164.1	Ca_kabuli_chr05	5590860	AA	GG	1946841651
SNP_P4_69187_5591035	NC_021164.1	Ca_kabuli_chr05	5591035	TT	GG	1946841653
SNP_P4_69188_5591062	NC_021164.1	Ca_kabuli_chr05	5591062	TT	CC	1946841655
SNP_P4_69189_5602925	NC_021164.1	Ca_kabuli_chr05	5602925	AA	TT	1946841657
SNP_P4_69190_5608251	NC_021164.1	Ca_kabuli_chr05	5608251	CC	TT	1946841659
SNP_P4_69191_5609465	NC_021164.1	Ca_kabuli_chr05	5609465	TT	GG	1946841660
SNP_P4_69192_5609480	NC_021164.1	Ca_kabuli_chr05	5609480	TT	CC	1946841662
SNP_P4_69194_5631208	NC_021164.1	Ca_kabuli_chr05	5631208	AA	GG	1946841664
SNP_P4_69195_5702989	NC_021164.1	Ca_kabuli_chr05	5702989	AA	GG	1946841666
SNP_P4_69196_5703050	NC_021164.1	Ca_kabuli_chr05	5703050	TT	GG	1946841668
SNP_P4_69197_5703445	NC_021164.1	Ca_kabuli_chr05	5703445	AA	TT	1946841670
SNP_P4_69199_5735419	NC_021164.1	Ca_kabuli_chr05	5735419	AA	TT	1946841672
SNP_P4_69200_5735426	NC_021164.1	Ca_kabuli_chr05	5735426	TT	CC	1946841674
SNP_P4_69201_5735616	NC_021164.1	Ca_kabuli_chr05	5735616	GG	AA	1946841676
SNP_P4_69202_5769482	NC_021164.1	Ca_kabuli_chr05	5769482	TT	CC	1946841678
SNP_P4_69203_5769866	NC_021164.1	Ca_kabuli_chr05	5769866	TT	GG	1946841680
SNP_P4_69204_5786947	NC_021164.1	Ca_kabuli_chr05	5786947	AA	GG	1946841682
SNP_P4_69205_5787031	NC_021164.1	Ca_kabuli_chr05	5787031	CC	TT	1946841684
SNP_P4_69206_5787156	NC_021164.1	Ca_kabuli_chr05	5787156	TT	GG	1946841686
SNP_P4_69207_5788971	NC_021164.1	Ca_kabuli_chr05	5788971	GG	TT	1946841688
SNP_P4_69209_5823553	NC_021164.1	Ca_kabuli_chr05	5823553	AA	TT	1946841690
SNP_P4_69210_5823971	NC_021164.1	Ca_kabuli_chr05	5823971	AA	TT	1946841692
SNP_P4_69211_5824708	NC_021164.1	Ca_kabuli_chr05	5824708	TT	CC	1946841694
SNP_P4_69212_5825113	NC_021164.1	Ca_kabuli_chr05	5825113	GG	AA	1946841696
SNP_P4_69213_5825142	NC_021164.1	Ca_kabuli_chr05	5825142	TT	GG	1946841698
SNP_P4_69214_5825443	NC_021164.1	Ca_kabuli_chr05	5825443	AA	GG	1946841700

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_69216_5825577	NC_021164.1	Ca_kabuli_chr05	5825577	GG	AA	1946841704
SNP_P4_69217_5825774	NC_021164.1	Ca_kabuli_chr05	5825774	GG	TT	1946841706
SNP_P4_69218_5825819	NC_021164.1	Ca_kabuli_chr05	5825819	AA	CC	1946841708
SNP_P4_69219_5825906	NC_021164.1	Ca_kabuli_chr05	5825906	GG	AA	1946841710
SNP_P4_69220_5825910	NC_021164.1	Ca_kabuli_chr05	5825910	AA	CC	1946841712
SNP_P4_69221_5825997	NC_021164.1	Ca_kabuli_chr05	5825997	TT	AA	1946841714
SNP_P4_69222_5826207	NC_021164.1	Ca_kabuli_chr05	5826207	AA	CC	1946841716
SNP_P4_69223_5827337	NC_021164.1	Ca_kabuli_chr05	5827337	CC	TT	1946841718
SNP_P4_69224_5827357	NC_021164.1	Ca_kabuli_chr05	5827357	TT	CC	1946841720
SNP_P4_69225_5827402	NC_021164.1	Ca_kabuli_chr05	5827402	AA	TT	1946841722
SNP_P4_69226_5827445	NC_021164.1	Ca_kabuli_chr05	5827445	AA	CC	1946841724
SNP_P4_69227_5827458	NC_021164.1	Ca_kabuli_chr05	5827458	TT	GG	1946841726
SNP_P4_69228_5827525	NC_021164.1	Ca_kabuli_chr05	5827525	CC	TT	1946841728
SNP_P4_69229_5827550	NC_021164.1	Ca_kabuli_chr05	5827550	AA	CC	1946841730
SNP_P4_69230_5827556	NC_021164.1	Ca_kabuli_chr05	5827556	AA	GG	1946841732
SNP_P4_69231_5827585	NC_021164.1	Ca_kabuli_chr05	5827585	TT	GG	1946841734
SNP_P4_69232_5827634	NC_021164.1	Ca_kabuli_chr05	5827634	CC	TT	1946841736
SNP_P4_69233_5827823	NC_021164.1	Ca_kabuli_chr05	5827823	CC	TT	1946841738
SNP_P4_69234_5827833	NC_021164.1	Ca_kabuli_chr05	5827833	GG	AA	1946841740
SNP_P4_69235_5827835	NC_021164.1	Ca_kabuli_chr05	5827835	CC	TT	1946841742
SNP_P4_69236_5827837	NC_021164.1	Ca_kabuli_chr05	5827837	AA	GG	1946841744
SNP_P4_69237_5828130	NC_021164.1	Ca_kabuli_chr05	5828130	CC	GG	1946841746
SNP_P4_69238_5828170	NC_021164.1	Ca_kabuli_chr05	5828170	AA	GG	1946841748
SNP_P4_69239_5828199	NC_021164.1	Ca_kabuli_chr05	5828199	TT	AA	1946841750
SNP_P4_69240_5831378	NC_021164.1	Ca_kabuli_chr05	5831378	TT	GG	1946841752
SNP_P4_69241_5831442	NC_021164.1	Ca_kabuli_chr05	5831442	CC	GG	1946841754
SNP_P4_69242_5831649	NC_021164.1	Ca_kabuli_chr05	5831649	TT	CC	1946841756
SNP_P4_69243_5833063	NC_021164.1	Ca_kabuli_chr05	5833063	GG	TT	1946841758
SNP_P4_69244_5833064	NC_021164.1	Ca_kabuli_chr05	5833064	GG	AA	1946841760
SNP_P4_69245_5835250	NC_021164.1	Ca_kabuli_chr05	5835250	AA	CC	1946841762
SNP_P4_69246_5835354	NC_021164.1	Ca_kabuli_chr05	5835354	AA	TT	1946841764
SNP_P4_69247_5835422	NC_021164.1	Ca_kabuli_chr05	5835422	TT	AA	1946841766
SNP_P4_69248_5835428	NC_021164.1	Ca_kabuli_chr05	5835428	TT	AA	1946841768
SNP_P4_69249_5835517	NC_021164.1	Ca_kabuli_chr05	5835517	AA	GG	1946841770
SNP_P4_69250_5835712	NC_021164.1	Ca_kabuli_chr05	5835712	TT	CC	1946841772
SNP_P4_69251_5835725	NC_021164.1	Ca_kabuli_chr05	5835725	GG	TT	1946841774
SNP_P4_69252_5836280	NC_021164.1	Ca_kabuli_chr05	5836280	TT	CC	1946841776
SNP_P4_69253_5836284	NC_021164.1	Ca_kabuli_chr05	5836284	CC	AA	1946841778
SNP_P4_69254_5836316	NC_021164.1	Ca_kabuli_chr05	5836316	AA	GG	1946841780
SNP_P4_69255_5836322	NC_021164.1	Ca_kabuli_chr05	5836322	CC	AA	1946841782
SNP_P4_69256_5836376	NC_021164.1	Ca_kabuli_chr05	5836376	CC	TT	1946841784

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_69257_5836473	NC_021164.1	Ca_kabuli_chr05	5836473	CC	TT	1946841786
SNP_P4_69258_5836479	NC_021164.1	Ca_kabuli_chr05	5836479	CC	AA	1946841788
SNP_P4_69259_5836528	NC_021164.1	Ca_kabuli_chr05	5836528	AA	CC	1946841790
SNP_P4_69260_5836709	NC_021164.1	Ca_kabuli_chr05	5836709	CC	AA	1946841792
SNP_P4_69261_5836718	NC_021164.1	Ca_kabuli_chr05	5836718	GG	AA	1946841794
SNP_P4_69262_5836721	NC_021164.1	Ca_kabuli_chr05	5836721	GG	AA	1946841796
SNP_P4_69264_5836913	NC_021164.1	Ca_kabuli_chr05	5836913	CC	GG	1946841797
SNP_P4_69265_5836920	NC_021164.1	Ca_kabuli_chr05	5836920	TT	GG	1946841799
SNP_P4_69266_5836955	NC_021164.1	Ca_kabuli_chr05	5836955	TT	GG	1946841801
SNP_P4_69267_5836999	NC_021164.1	Ca_kabuli_chr05	5836999	TT	AA	1946841803
SNP_P4_69268_5837024	NC_021164.1	Ca_kabuli_chr05	5837024	GG	AA	1946841805
SNP_P4_69270_5837099	NC_021164.1	Ca_kabuli_chr05	5837099	TT	AA	1946841807
SNP_P4_69271_5837131	NC_021164.1	Ca_kabuli_chr05	5837131	TT	CC	1946841809
SNP_P4_69272_5837271	NC_021164.1	Ca_kabuli_chr05	5837271	TT	CC	1946841811
SNP_P4_69273_5837283	NC_021164.1	Ca_kabuli_chr05	5837283	AA	GG	1946841813
SNP_P4_69274_5837327	NC_021164.1	Ca_kabuli_chr05	5837327	TT	AA	1946841815
SNP_P4_69275_5837444	NC_021164.1	Ca_kabuli_chr05	5837444	CC	AA	1946841817
SNP_P4_69276_5855011	NC_021164.1	Ca_kabuli_chr05	5855011	TT	GG	1946841819
SNP_P4_69277_5855039	NC_021164.1	Ca_kabuli_chr05	5855039	AA	GG	1946841821
SNP_P4_69278_5855099	NC_021164.1	Ca_kabuli_chr05	5855099	TT	AA	1946841823
SNP_P4_69279_5855528	NC_021164.1	Ca_kabuli_chr05	5855528	CC	AA	1946841825
SNP_P4_69280_5855829	NC_021164.1	Ca_kabuli_chr05	5855829	CC	AA	1946841827
SNP_P4_69281_5855840	NC_021164.1	Ca_kabuli_chr05	5855840	GG	AA	1946841829
SNP_P4_69282_5857839	NC_021164.1	Ca_kabuli_chr05	5857839	TT	CC	1946841831
SNP_P4_69283_5869851	NC_021164.1	Ca_kabuli_chr05	5869851	AA	GG	1946841833
SNP_P4_69284_5870139	NC_021164.1	Ca_kabuli_chr05	5870139	AA	GG	1946841835
SNP_P4_69285_5870150	NC_021164.1	Ca_kabuli_chr05	5870150	AA	CC	1946841837
SNP_P4_69286_5870240	NC_021164.1	Ca_kabuli_chr05	5870240	GG	TT	1946841839
SNP_P4_69287_5870259	NC_021164.1	Ca_kabuli_chr05	5870259	AA	GG	1946841841
SNP_P4_69288_5870288	NC_021164.1	Ca_kabuli_chr05	5870288	GG	TT	1946841843
SNP_P4_69289_5870303	NC_021164.1	Ca_kabuli_chr05	5870303	CC	AA	1946841845
SNP_P4_69290_5873106	NC_021164.1	Ca_kabuli_chr05	5873106	TT	CC	1946841847
SNP_P4_69291_5883554	NC_021164.1	Ca_kabuli_chr05	5883554	CC	TT	1946841849
SNP_P4_69294_5906760	NC_021164.1	Ca_kabuli_chr05	5906760	TT	AA	1946841851
SNP_P4_69295_5906773	NC_021164.1	Ca_kabuli_chr05	5906773	TT	GG	1946841853
SNP_P4_69296_5906798	NC_021164.1	Ca_kabuli_chr05	5906798	CC	TT	1946841855
SNP_P4_69298_5919367	NC_021164.1	Ca_kabuli_chr05	5919367	AA	CC	1946841857
SNP_P4_69299_5957172	NC_021164.1	Ca_kabuli_chr05	5957172	AA	CC	1946841859
SNP_P4_69300_5969684	NC_021164.1	Ca_kabuli_chr05	5969684	AA	GG	1946841861
SNP_P4_69301_5969685	NC_021164.1	Ca_kabuli_chr05	5969685	TT	AA	1946841864
SNP_P4_69302_5969722	NC_021164.1	Ca_kabuli_chr05	5969722	GG	CC	1946841866
SNP_P4_69303_5969749	NC_021164.1	Ca_kabuli_chr05	5969749	TT	AA	1946841868

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_69305_5969798	NC_021164.1	Ca_kabuli_chr05	5969798	TT	CC	1946841872
SNP_P4_69306_5969870	NC_021164.1	Ca_kabuli_chr05	5969870	AA	CC	1946841874
SNP_P4_69307_5969893	NC_021164.1	Ca_kabuli_chr05	5969893	AA	TT	1946841876
SNP_P4_69308_5969897	NC_021164.1	Ca_kabuli_chr05	5969897	AA	CC	1946841878
SNP_P4_69309_5969919	NC_021164.1	Ca_kabuli_chr05	5969919	CC	AA	1946841880
SNP_P4_69311_5969953	NC_021164.1	Ca_kabuli_chr05	5969953	AA	CC	1946841882
SNP_P4_69312_5969957	NC_021164.1	Ca_kabuli_chr05	5969957	AA	CC	1946841884
SNP_P4_69313_5969974	NC_021164.1	Ca_kabuli_chr05	5969974	GG	TT	1946841886
SNP_P4_69314_5969978	NC_021164.1	Ca_kabuli_chr05	5969978	GG	TT	1946841888
SNP_P4_69315_5970030	NC_021164.1	Ca_kabuli_chr05	5970030	AA	GG	1946841890
SNP_P4_69316_5970043	NC_021164.1	Ca_kabuli_chr05	5970043	AA	CC	1946841892
SNP_P4_69317_5970132	NC_021164.1	Ca_kabuli_chr05	5970132	TT	CC	1946841894
SNP_P4_69318_5970184	NC_021164.1	Ca_kabuli_chr05	5970184	CC	GG	1946841897
SNP_P4_69319_5970238	NC_021164.1	Ca_kabuli_chr05	5970238	GG	AA	1946841899
SNP_P4_69320_5970262	NC_021164.1	Ca_kabuli_chr05	5970262	CC	TT	1946841901
SNP_P4_69321_5970267	NC_021164.1	Ca_kabuli_chr05	5970267	CC	AA	1946841903
SNP_P4_69322_5970295	NC_021164.1	Ca_kabuli_chr05	5970295	TT	CC	1946841905
SNP_P4_69323_5970396	NC_021164.1	Ca_kabuli_chr05	5970396	AA	CC	1946841907
SNP_P4_69324_5970402	NC_021164.1	Ca_kabuli_chr05	5970402	AA	GG	1946841909
SNP_P4_69325_5970526	NC_021164.1	Ca_kabuli_chr05	5970526	TT	CC	1946841911
SNP_P4_69326_5975265	NC_021164.1	Ca_kabuli_chr05	5975265	AA	TT	1946841912
SNP_P4_69327_5975554	NC_021164.1	Ca_kabuli_chr05	5975554	TT	CC	1946841915
SNP_P4_69328_5990992	NC_021164.1	Ca_kabuli_chr05	5990992	TT	GG	1946841917
SNP_P4_69329_5990994	NC_021164.1	Ca_kabuli_chr05	5990994	GG	TT	1946841919
SNP_P4_69330_5991485	NC_021164.1	Ca_kabuli_chr05	5991485	GG	AA	1946841921
SNP_P4_69331_5991840	NC_021164.1	Ca_kabuli_chr05	5991840	CC	TT	1946841923
SNP_P4_69332_5991978	NC_021164.1	Ca_kabuli_chr05	5991978	GG	AA	1946841925
SNP_P4_69333_5993886	NC_021164.1	Ca_kabuli_chr05	5993886	AA	GG	1946841927
SNP_P4_69334_5993887	NC_021164.1	Ca_kabuli_chr05	5993887	AA	TT	1946841929
SNP_P4_69335_5994351	NC_021164.1	Ca_kabuli_chr05	5994351	CC	TT	1946841931
SNP_P4_69336_5994806	NC_021164.1	Ca_kabuli_chr05	5994806	TT	AA	1946841933
SNP_P4_69337_5994915	NC_021164.1	Ca_kabuli_chr05	5994915	CC	TT	1946841935
SNP_P4_69338_5994944	NC_021164.1	Ca_kabuli_chr05	5994944	AA	CC	1946841937
SNP_P4_69339_6001404	NC_021164.1	Ca_kabuli_chr05	6001404	CC	GG	1946841939
SNP_P4_69340_6033288	NC_021164.1	Ca_kabuli_chr05	6033288	TT	CC	1946841941
SNP_P4_69341_6036006	NC_021164.1	Ca_kabuli_chr05	6036006	GG	CC	1946841943
SNP_P4_69342_6044831	NC_021164.1	Ca_kabuli_chr05	6044831	CC	TT	1946841945
SNP_P4_69343_6045066	NC_021164.1	Ca_kabuli_chr05	6045066	TT	GG	1946841947
SNP_P4_69344_6045227	NC_021164.1	Ca_kabuli_chr05	6045227	TT	CC	1946841949
SNP_P4_69345_6045846	NC_021164.1	Ca_kabuli_chr05	6045846	GG	TT	1946841952
SNP_P4_69346_6045848	NC_021164.1	Ca_kabuli_chr05	6045848	TT	CC	1946841954

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_69348_6045875	NC_021164.1	Ca_kabuli_chr05	6045875	AA	GG	1946841958
SNP_P4_69349_6045913	NC_021164.1	Ca_kabuli_chr05	6045913	AA	CC	1946841960
SNP_P4_69350_6045918	NC_021164.1	Ca_kabuli_chr05	6045918	CC	AA	1946841962
SNP_P4_69351_6045923	NC_021164.1	Ca_kabuli_chr05	6045923	TT	CC	1946841964
SNP_P4_69352_6045944	NC_021164.1	Ca_kabuli_chr05	6045944	AA	GG	1946841966
SNP_P4_69353_6052829	NC_021164.1	Ca_kabuli_chr05	6052829	TT	CC	1946841968
SNP_P4_69354_6067694	NC_021164.1	Ca_kabuli_chr05	6067694	GG	AA	1946841971
SNP_P4_69355_6067736	NC_021164.1	Ca_kabuli_chr05	6067736	TT	AA	1946841973
SNP_P4_69356_6067737	NC_021164.1	Ca_kabuli_chr05	6067737	TT	AA	1946841976
SNP_P4_69358_6077541	NC_021164.1	Ca_kabuli_chr05	6077541	CC	TT	1946841978
SNP_P4_69359_6094465	NC_021164.1	Ca_kabuli_chr05	6094465	AA	GG	1946841980
SNP_P4_69360_6124817	NC_021164.1	Ca_kabuli_chr05	6124817	TT	CC	1946841982
SNP_P4_69361_6155045	NC_021164.1	Ca_kabuli_chr05	6155045	CC	TT	1946841984
SNP_P4_69362_6198275	NC_021164.1	Ca_kabuli_chr05	6198275	GG	AA	1946841986
SNP_P4_69364_6199892	NC_021164.1	Ca_kabuli_chr05	6199892	AA	TT	1946841988
SNP_P4_69365_6199901	NC_021164.1	Ca_kabuli_chr05	6199901	TT	CC	1946841991
SNP_P4_69366_6199908	NC_021164.1	Ca_kabuli_chr05	6199908	TT	CC	1946841993
SNP_P4_69367_6199936	NC_021164.1	Ca_kabuli_chr05	6199936	GG	AA	1946841995
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SNP_P4_69370_6200128	NC_021164.1	Ca_kabuli_chr05	6200128	CC	TT	1946841999
SNP_P4_69371_6200225	NC_021164.1	Ca_kabuli_chr05	6200225	CC	TT	1946842001
SNP_P4_69372_6200270	NC_021164.1	Ca_kabuli_chr05	6200270	AA	GG	1946842003
SNP_P4_69373_6200347	NC_021164.1	Ca_kabuli_chr05	6200347	GG	TT	1946842005
SNP_P4_69374_6200375	NC_021164.1	Ca_kabuli_chr05	6200375	TT	GG	1946842007
SNP_P4_69375_6200468	NC_021164.1	Ca_kabuli_chr05	6200468	AA	GG	1946842009
SNP_P4_69376_6200526	NC_021164.1	Ca_kabuli_chr05	6200526	TT	AA	1946842011
SNP_P4_69378_6219689	NC_021164.1	Ca_kabuli_chr05	6219689	CC	GG	1946842013
SNP_P4_69379_6227141	NC_021164.1	Ca_kabuli_chr05	6227141	TT	AA	1946842015
SNP_P4_69381_6227257	NC_021164.1	Ca_kabuli_chr05	6227257	TT	CC	1946842017
SNP_P4_69382_6239208	NC_021164.1	Ca_kabuli_chr05	6239208	CC	TT	1946842019
SNP_P4_69383_6239421	NC_021164.1	Ca_kabuli_chr05	6239421	GG	TT	1946842021
SNP_P4_69384_6247101	NC_021164.1	Ca_kabuli_chr05	6247101	TT	CC	1946842023
SNP_P4_69385_6263252	NC_021164.1	Ca_kabuli_chr05	6263252	AA	GG	1946842025
SNP_P4_69386_6263471	NC_021164.1	Ca_kabuli_chr05	6263471	TT	CC	1946842027
SNP_P4_69387_6263785	NC_021164.1	Ca_kabuli_chr05	6263785	GG	AA	1946842029
SNP_P4_69388_6263851	NC_021164.1	Ca_kabuli_chr05	6263851	TT	AA	1946842031
SNP_P4_69389_6263884	NC_021164.1	Ca_kabuli_chr05	6263884	AA	GG	1946842033
SNP_P4_69390_6264775	NC_021164.1	Ca_kabuli_chr05	6264775	TT	AA	1946842035
SNP_P4_69391_6264795	NC_021164.1	Ca_kabuli_chr05	6264795	GG	AA	1946842037
SNP_P4_69392_6264798	NC_021164.1	Ca_kabuli_chr05	6264798	GG	TT	1946842039
SNP_P4_69393_6289673	NC_021164.1	Ca_kabuli_chr05	6289673	CC	TT	1946842041

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_69395_6291064	NC_021164.1	Ca_kabuli_chr05	6291064	TT	CC	1946842045
SNP_P4_69396_6297622	NC_021164.1	Ca_kabuli_chr05	6297622	CC	TT	1946842047
SNP_P4_69397_6310463	NC_021164.1	Ca_kabuli_chr05	6310463	TT	GG	1946842049
SNP_P4_69398_6310483	NC_021164.1	Ca_kabuli_chr05	6310483	GG	CC	1946842051
SNP_P4_69399_6310498	NC_021164.1	Ca_kabuli_chr05	6310498	AA	GG	1946842053
SNP_P4_69400_6310538	NC_021164.1	Ca_kabuli_chr05	6310538	AA	GG	1946842055
SNP_P4_69401_6310740	NC_021164.1	Ca_kabuli_chr05	6310740	AA	CC	1946842057
SNP_P4_69402_6310934	NC_021164.1	Ca_kabuli_chr05	6310934	GG	AA	1946842059
SNP_P4_69403_6311053	NC_021164.1	Ca_kabuli_chr05	6311053	GG	AA	1946842061
SNP_P4_69404_6369003	NC_021164.1	Ca_kabuli_chr05	6369003	GG	TT	1946842063
SNP_P4_69405_6369197	NC_021164.1	Ca_kabuli_chr05	6369197	TT	AA	1946842065
SNP_P4_69406_6369404	NC_021164.1	Ca_kabuli_chr05	6369404	GG	AA	1946842067
SNP_P4_69407_6369424	NC_021164.1	Ca_kabuli_chr05	6369424	TT	GG	1946842069
SNP_P4_69408_6369431	NC_021164.1	Ca_kabuli_chr05	6369431	TT	CC	1946842071
SNP_P4_69409_6369432	NC_021164.1	Ca_kabuli_chr05	6369432	GG	AA	1946842073
SNP_P4_69410_6369442	NC_021164.1	Ca_kabuli_chr05	6369442	AA	CC	1946842075
SNP_P4_69411_6369470	NC_021164.1	Ca_kabuli_chr05	6369470	AA	TT	1946842077
SNP_P4_69412_6369543	NC_021164.1	Ca_kabuli_chr05	6369543	AA	CC	1946842079
SNP_P4_69414_6369679	NC_021164.1	Ca_kabuli_chr05	6369679	CC	TT	1946842081
SNP_P4_69415_6369731	NC_021164.1	Ca_kabuli_chr05	6369731	GG	AA	1946842083
SNP_P4_69416_6369736	NC_021164.1	Ca_kabuli_chr05	6369736	CC	TT	1946842085
SNP_P4_69417_6369742	NC_021164.1	Ca_kabuli_chr05	6369742	GG	TT	1946842087
SNP_P4_69418_6369769	NC_021164.1	Ca_kabuli_chr05	6369769	GG	AA	1946842089
SNP_P4_69419_6369807	NC_021164.1	Ca_kabuli_chr05	6369807	CC	AA	1946842091
SNP_P4_69420_6369878	NC_021164.1	Ca_kabuli_chr05	6369878	CC	AA	1946842093
SNP_P4_69421_6397470	NC_021164.1	Ca_kabuli_chr05	6397470	AA	GG	1946842095
SNP_P4_69422_6409853	NC_021164.1	Ca_kabuli_chr05	6409853	TT	CC	1946842097
SNP_P4_69423_6416355	NC_021164.1	Ca_kabuli_chr05	6416355	AA	CC	1946842099
SNP_P4_69424_6416673	NC_021164.1	Ca_kabuli_chr05	6416673	AA	GG	1946842101
SNP_P4_69425_6416698	NC_021164.1	Ca_kabuli_chr05	6416698	TT	CC	1946842103
SNP_P4_69426_6420643	NC_021164.1	Ca_kabuli_chr05	6420643	CC	TT	1946842105
SNP_P4_69427_6420648	NC_021164.1	Ca_kabuli_chr05	6420648	TT	AA	1946842107
SNP_P4_69428_6420666	NC_021164.1	Ca_kabuli_chr05	6420666	CC	AA	1946842109
SNP_P4_69429_6420673	NC_021164.1	Ca_kabuli_chr05	6420673	CC	TT	1946842111
SNP_P4_69430_6420674	NC_021164.1	Ca_kabuli_chr05	6420674	CC	TT	1946842113
SNP_P4_69431_6421051	NC_021164.1	Ca_kabuli_chr05	6421051	TT	CC	1946842115
SNP_P4_69432_6421484	NC_021164.1	Ca_kabuli_chr05	6421484	AA	CC	1946842117
SNP_P4_69433_6421534	NC_021164.1	Ca_kabuli_chr05	6421534	TT	CC	1946842119
SNP_P4_69434_6421573	NC_021164.1	Ca_kabuli_chr05	6421573	GG	AA	1946842121
SNP_P4_69435_6421867	NC_021164.1	Ca_kabuli_chr05	6421867	TT	GG	1946842123
SNP_P4_69436_6428479	NC_021164.1	Ca_kabuli_chr05	6428479	GG	AA	1946842125

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_69437_6441603	NC_021164.1	Ca_kabuli_chr05	6441603	TT	CC	1946842127
SNP_P4_69438_6441823	NC_021164.1	Ca_kabuli_chr05	6441823	GG	TT	1946842129
SNP_P4_69439_6441826	NC_021164.1	Ca_kabuli_chr05	6441826	CC	TT	1946842131
SNP_P4_69440_6442015	NC_021164.1	Ca_kabuli_chr05	6442015	TT	AA	1946842133
SNP_P4_69441_6454787	NC_021164.1	Ca_kabuli_chr05	6454787	AA	TT	1946842135
SNP_P4_69442_6460715	NC_021164.1	Ca_kabuli_chr05	6460715	TT	AA	1946842137
SNP_P4_69443_6461065	NC_021164.1	Ca_kabuli_chr05	6461065	TT	CC	1946842139
SNP_P4_69444_6461080	NC_021164.1	Ca_kabuli_chr05	6461080	CC	TT	1946842141
SNP_P4_69445_6467879	NC_021164.1	Ca_kabuli_chr05	6467879	AA	GG	1946842143
SNP_P4_69446_6474806	NC_021164.1	Ca_kabuli_chr05	6474806	TT	GG	1946842145
SNP_P4_69447_6474808	NC_021164.1	Ca_kabuli_chr05	6474808	TT	CC	1946842147
SNP_P4_69448_6477705	NC_021164.1	Ca_kabuli_chr05	6477705	CC	TT	1946842149
SNP_P4_69449_6478082	NC_021164.1	Ca_kabuli_chr05	6478082	TT	AA	1946842151
SNP_P4_69450_6478085	NC_021164.1	Ca_kabuli_chr05	6478085	AA	CC	1946842153
SNP_P4_69451_6478128	NC_021164.1	Ca_kabuli_chr05	6478128	TT	GG	1946842155
SNP_P4_69452_6478179	NC_021164.1	Ca_kabuli_chr05	6478179	AA	GG	1946842157
SNP_P4_69454_6494037	NC_021164.1	Ca_kabuli_chr05	6494037	TT	CC	1946842159
SNP_P4_69455_6494040	NC_021164.1	Ca_kabuli_chr05	6494040	GG	TT	1946842161
SNP_P4_69456_6494063	NC_021164.1	Ca_kabuli_chr05	6494063	AA	GG	1946842163
SNP_P4_69457_6494099	NC_021164.1	Ca_kabuli_chr05	6494099	GG	AA	1946842165
SNP_P4_69458_6494111	NC_021164.1	Ca_kabuli_chr05	6494111	TT	CC	1946842167
SNP_P4_69459_6494123	NC_021164.1	Ca_kabuli_chr05	6494123	AA	GG	1946842169
SNP_P4_69460_6494150	NC_021164.1	Ca_kabuli_chr05	6494150	CC	TT	1946842171
SNP_P4_69461_6494152	NC_021164.1	Ca_kabuli_chr05	6494152	TT	CC	1946842173
SNP_P4_69462_6494156	NC_021164.1	Ca_kabuli_chr05	6494156	TT	GG	1946842175
SNP_P4_69463_6494159	NC_021164.1	Ca_kabuli_chr05	6494159	TT	CC	1946842177
SNP_P4_69464_6494162	NC_021164.1	Ca_kabuli_chr05	6494162	TT	CC	1946842179
SNP_P4_69465_6494189	NC_021164.1	Ca_kabuli_chr05	6494189	TT	CC	1946842181
SNP_P4_69466_6494207	NC_021164.1	Ca_kabuli_chr05	6494207	TT	CC	1946842183
SNP_P4_69467_6494257	NC_021164.1	Ca_kabuli_chr05	6494257	GG	AA	1946842185
SNP_P4_69468_6494494	NC_021164.1	Ca_kabuli_chr05	6494494	TT	CC	1946842187
SNP_P4_69469_6494548	NC_021164.1	Ca_kabuli_chr05	6494548	TT	GG	1946842189
SNP_P4_69470_6494566	NC_021164.1	Ca_kabuli_chr05	6494566	GG	AA	1946842191
SNP_P4_69471_6494572	NC_021164.1	Ca_kabuli_chr05	6494572	AA	TT	1946842193
SNP_P4_69472_6494575	NC_021164.1	Ca_kabuli_chr05	6494575	GG	AA	1946842195
SNP_P4_69473_6497062	NC_021164.1	Ca_kabuli_chr05	6497062	GG	AA	1946842197
SNP_P4_69474_6497078	NC_021164.1	Ca_kabuli_chr05	6497078	CC	AA	1946842199
SNP_P4_69476_6512942	NC_021164.1	Ca_kabuli_chr05	6512942	GG	AA	1946842201
SNP_P4_69477_6527698	NC_021164.1	Ca_kabuli_chr05	6527698	GG	AA	1946842203
SNP_P4_69478_6530924	NC_021164.1	Ca_kabuli_chr05	6530924	TT	AA	1946842205
SNP_P4_69479_6532183	NC_021164.1	Ca_kabuli_chr05	6532183	GG	AA	1946842207
SNP_P4_69481_6532709	NC_021164.1	Ca_kabuli_chr05	6532709	AA	TT	1946842209

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_69483_6535226	NC_021164.1	Ca_kabuli_chr05	6535226	CC	TT	1946842213
SNP_P4_69484_6535261	NC_021164.1	Ca_kabuli_chr05	6535261	TT	CC	1946842215
SNP_P4_69486_6535322	NC_021164.1	Ca_kabuli_chr05	6535322	AA	GG	1946842217
SNP_P4_69487_6535340	NC_021164.1	Ca_kabuli_chr05	6535340	AA	TT	1946842219
SNP_P4_69488_6535346	NC_021164.1	Ca_kabuli_chr05	6535346	CC	TT	1946842221
SNP_P4_69489_6535353	NC_021164.1	Ca_kabuli_chr05	6535353	AA	GG	1946842223
SNP_P4_69490_6535363	NC_021164.1	Ca_kabuli_chr05	6535363	TT	AA	1946842225
SNP_P4_69491_6535385	NC_021164.1	Ca_kabuli_chr05	6535385	AA	CC	1946842227
SNP_P4_69492_6535391	NC_021164.1	Ca_kabuli_chr05	6535391	AA	GG	1946842229
SNP_P4_69493_6535439	NC_021164.1	Ca_kabuli_chr05	6535439	CC	TT	1946842231
SNP_P4_69494_6535535	NC_021164.1	Ca_kabuli_chr05	6535535	AA	GG	1946842233
SNP_P4_69495_6535594	NC_021164.1	Ca_kabuli_chr05	6535594	TT	CC	1946842235
SNP_P4_69496_6535747	NC_021164.1	Ca_kabuli_chr05	6535747	AA	CC	1946842237
SNP_P4_69497_6535765	NC_021164.1	Ca_kabuli_chr05	6535765	AA	TT	1946842239
SNP_P4_69498_6535780	NC_021164.1	Ca_kabuli_chr05	6535780	TT	AA	1946842241
SNP_P4_69499_6535801	NC_021164.1	Ca_kabuli_chr05	6535801	AA	TT	1946842243
SNP_P4_69500_6535835	NC_021164.1	Ca_kabuli_chr05	6535835	TT	CC	1946842245
SNP_P4_69501_6535837	NC_021164.1	Ca_kabuli_chr05	6535837	AA	GG	1946842247
SNP_P4_69502_6535843	NC_021164.1	Ca_kabuli_chr05	6535843	AA	GG	1946842249
SNP_P4_69503_6535868	NC_021164.1	Ca_kabuli_chr05	6535868	CC	AA	1946842251
SNP_P4_69504_6535888	NC_021164.1	Ca_kabuli_chr05	6535888	TT	CC	1946842253
SNP_P4_69505_6535919	NC_021164.1	Ca_kabuli_chr05	6535919	AA	GG	1946842255
SNP_P4_69506_6535932	NC_021164.1	Ca_kabuli_chr05	6535932	AA	GG	1946842257
SNP_P4_69507_6535935	NC_021164.1	Ca_kabuli_chr05	6535935	TT	CC	1946842259
SNP_P4_69508_6535960	NC_021164.1	Ca_kabuli_chr05	6535960	GG	AA	1946842261
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SNP_P4_69510_6536202	NC_021164.1	Ca_kabuli_chr05	6536202	CC	GG	1946842265
SNP_P4_69511_6536207	NC_021164.1	Ca_kabuli_chr05	6536207	AA	CC	1946842267
SNP_P4_69512_6536258	NC_021164.1	Ca_kabuli_chr05	6536258	CC	AA	1946842269
SNP_P4_69513_6536265	NC_021164.1	Ca_kabuli_chr05	6536265	AA	GG	1946842271
SNP_P4_69514_6536303	NC_021164.1	Ca_kabuli_chr05	6536303	AA	CC	1946842273
SNP_P4_69515_6536372	NC_021164.1	Ca_kabuli_chr05	6536372	GG	AA	1946842275
SNP_P4_69516_6536586	NC_021164.1	Ca_kabuli_chr05	6536586	AA	GG	1946842277
SNP_P4_69517_6536595	NC_021164.1	Ca_kabuli_chr05	6536595	AA	TT	1946842279
SNP_P4_69518_6536597	NC_021164.1	Ca_kabuli_chr05	6536597	CC	TT	1946842281
SNP_P4_69519_6536693	NC_021164.1	Ca_kabuli_chr05	6536693	CC	TT	1946842283
SNP_P4_69520_6536750	NC_021164.1	Ca_kabuli_chr05	6536750	GG	AA	1946842285
SNP_P4_69521_6536761	NC_021164.1	Ca_kabuli_chr05	6536761	CC	AA	1946842287
SNP_P4_69522_6536819	NC_021164.1	Ca_kabuli_chr05	6536819	TT	GG	1946842289
SNP_P4_69523_6542599	NC_021164.1	Ca_kabuli_chr05	6542599	CC	TT	1946842291
SNP_P4_69524_6589954	NC_021164.1	Ca_kabuli_chr05	6589954	GG	AA	1946842293

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_69526_6590167	NC_021164.1	Ca_kabuli_chr05	6590167	GG	AA	1946842297
SNP_P4_69527_6590220	NC_021164.1	Ca_kabuli_chr05	6590220	AA	GG	1946842299
SNP_P4_69528_6590284	NC_021164.1	Ca_kabuli_chr05	6590284	GG	CC	1946842301
SNP_P4_69529_6590329	NC_021164.1	Ca_kabuli_chr05	6590329	CC	AA	1946842302
SNP_P4_69530_6590415	NC_021164.1	Ca_kabuli_chr05	6590415	CC	AA	1946842304
SNP_P4_69531_6590548	NC_021164.1	Ca_kabuli_chr05	6590548	GG	CC	1946842306
SNP_P4_69532_6590755	NC_021164.1	Ca_kabuli_chr05	6590755	TT	AA	1946842308
SNP_P4_69533_6591493	NC_021164.1	Ca_kabuli_chr05	6591493	TT	CC	1946842310
SNP_P4_69534_6591590	NC_021164.1	Ca_kabuli_chr05	6591590	TT	GG	1946842312
SNP_P4_69535_6607971	NC_021164.1	Ca_kabuli_chr05	6607971	AA	CC	1946842314
SNP_P4_69536_6609609	NC_021164.1	Ca_kabuli_chr05	6609609	CC	TT	1946842316
SNP_P4_69537_6609715	NC_021164.1	Ca_kabuli_chr05	6609715	CC	GG	1946842318
SNP_P4_69538_6609993	NC_021164.1	Ca_kabuli_chr05	6609993	TT	CC	1946842320
SNP_P4_69539_6610002	NC_021164.1	Ca_kabuli_chr05	6610002	GG	AA	1946842322
SNP_P4_69540_6610064	NC_021164.1	Ca_kabuli_chr05	6610064	AA	TT	1946842324
SNP_P4_69541_6610066	NC_021164.1	Ca_kabuli_chr05	6610066	TT	CC	1946842325
SNP_P4_69542_6610093	NC_021164.1	Ca_kabuli_chr05	6610093	AA	GG	1946842327
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SNP_P4_69546_6632480	NC_021164.1	Ca_kabuli_chr05	6632480	TT	CC	1946842335
SNP_P4_69547_6646569	NC_021164.1	Ca_kabuli_chr05	6646569	CC	GG	1946842337
SNP_P4_69548_6646803	NC_021164.1	Ca_kabuli_chr05	6646803	AA	GG	1946842339
SNP_P4_69549_6646910	NC_021164.1	Ca_kabuli_chr05	6646910	AA	TT	1946842341
SNP_P4_69550_6646921	NC_021164.1	Ca_kabuli_chr05	6646921	GG	TT	1946842343
SNP_P4_69551_6647311	NC_021164.1	Ca_kabuli_chr05	6647311	TT	GG	1946842345
SNP_P4_69552_6647492	NC_021164.1	Ca_kabuli_chr05	6647492	CC	GG	1946842347
SNP_P4_69553_6647799	NC_021164.1	Ca_kabuli_chr05	6647799	AA	CC	1946842348
SNP_P4_69554_6647844	NC_021164.1	Ca_kabuli_chr05	6647844	CC	TT	1946842350
SNP_P4_69555_6647860	NC_021164.1	Ca_kabuli_chr05	6647860	AA	TT	1946842352
SNP_P4_69556_6647861	NC_021164.1	Ca_kabuli_chr05	6647861	CC	TT	1946842354
SNP_P4_69557_6648048	NC_021164.1	Ca_kabuli_chr05	6648048	TT	CC	1946842356
SNP_P4_69558_6648100	NC_021164.1	Ca_kabuli_chr05	6648100	AA	GG	1946842358
SNP_P4_69559_6648129	NC_021164.1	Ca_kabuli_chr05	6648129	TT	AA	1946842360
SNP_P4_69560_6648130	NC_021164.1	Ca_kabuli_chr05	6648130	CC	AA	1946842362
SNP_P4_69561_6648177	NC_021164.1	Ca_kabuli_chr05	6648177	TT	CC	1946842364
SNP_P4_69563_6668087	NC_021164.1	Ca_kabuli_chr05	6668087	AA	GG	1946842366
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SNP_P4_69565_6674895	NC_021164.1	Ca_kabuli_chr05	6674895	GG	AA	1946842370
SNP_P4_69566_6675073	NC_021164.1	Ca_kabuli_chr05	6675073	AA	TT	1946842372
SNP_P4_69567_6675300	NC_021164.1	Ca_kabuli_chr05	6675300	CC	GG	1946842373

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_69570_6715042	NC_021164.1	Ca_kabuli_chr05	6715042	AA	CC	1946842379
SNP_P4_69571_6723684	NC_021164.1	Ca_kabuli_chr05	6723684	CC	AA	1946842381
SNP_P4_69572_6723686	NC_021164.1	Ca_kabuli_chr05	6723686	TT	AA	1946842383
SNP_P4_69573_6723692	NC_021164.1	Ca_kabuli_chr05	6723692	CC	AA	1946842385
SNP_P4_69574_6723693	NC_021164.1	Ca_kabuli_chr05	6723693	TT	AA	1946842387
SNP_P4_69575_6723702	NC_021164.1	Ca_kabuli_chr05	6723702	GG	TT	1946842389
SNP_P4_69576_6723706	NC_021164.1	Ca_kabuli_chr05	6723706	TT	CC	1946842391
SNP_P4_69577_6723707	NC_021164.1	Ca_kabuli_chr05	6723707	TT	AA	1946842393
SNP_P4_69578_6723718	NC_021164.1	Ca_kabuli_chr05	6723718	AA	TT	1946842395
SNP_P4_69579_6739607	NC_021164.1	Ca_kabuli_chr05	6739607	GG	AA	1946842397
SNP_P4_69580_6739681	NC_021164.1	Ca_kabuli_chr05	6739681	TT	CC	1946842398
SNP_P4_69581_6739719	NC_021164.1	Ca_kabuli_chr05	6739719	CC	TT	1946842400
SNP_P4_69582_6739736	NC_021164.1	Ca_kabuli_chr05	6739736	CC	TT	1946842402
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SNP_P4_69584_6739808	NC_021164.1	Ca_kabuli_chr05	6739808	TT	GG	1946842406
SNP_P4_69585_6739921	NC_021164.1	Ca_kabuli_chr05	6739921	TT	CC	1946842408
SNP_P4_69586_6740034	NC_021164.1	Ca_kabuli_chr05	6740034	AA	GG	1946842410
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SNP_P4_69591_6753953	NC_021164.1	Ca_kabuli_chr05	6753953	CC	GG	1946842419
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SNP_P4_69598_6761099	NC_021164.1	Ca_kabuli_chr05	6761099	TT	CC	1946842431
SNP_P4_69600_6763453	NC_021164.1	Ca_kabuli_chr05	6763453	TT	AA	1946842433
SNP_P4_69601_6763454	NC_021164.1	Ca_kabuli_chr05	6763454	CC	TT	1946842435
SNP_P4_69603_6764239	NC_021164.1	Ca_kabuli_chr05	6764239	CC	TT	1946842437
SNP_P4_69604_6764258	NC_021164.1	Ca_kabuli_chr05	6764258	TT	AA	1946842439
SNP_P4_69606_6765962	NC_021164.1	Ca_kabuli_chr05	6765962	TT	CC	1946842441
SNP_P4_69607_6769194	NC_021164.1	Ca_kabuli_chr05	6769194	TT	CC	1946842443
SNP_P4_69608_6771855	NC_021164.1	Ca_kabuli_chr05	6771855	CC	TT	1946842445
SNP_P4_69609_6771981	NC_021164.1	Ca_kabuli_chr05	6771981	TT	CC	1946842447
SNP_P4_69610_6772186	NC_021164.1	Ca_kabuli_chr05	6772186	AA	TT	1946842449
SNP_P4_69611_6772228	NC_021164.1	Ca_kabuli_chr05	6772228	TT	GG	1946842451
SNP_P4_69612_6772253	NC_021164.1	Ca_kabuli_chr05	6772253	AA	TT	1946842453
SNP_P4_69614_6772313	NC_021164.1	Ca_kabuli_chr05	6772313	TT	CC	1946842455

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_69618_6772502	NC_021164.1	Ca_kabuli_chr05	6772502	AA	CC	1946842461
SNP_P4_69619_6772506	NC_021164.1	Ca_kabuli_chr05	6772506	CC	GG	1946842463
SNP_P4_69620_6772577	NC_021164.1	Ca_kabuli_chr05	6772577	CC	GG	1946842465
SNP_P4_69621_6772781	NC_021164.1	Ca_kabuli_chr05	6772781	TT	CC	1946842467
SNP_P4_69622_6772856	NC_021164.1	Ca_kabuli_chr05	6772856	GG	AA	1946842469
SNP_P4_69623_6772898	NC_021164.1	Ca_kabuli_chr05	6772898	CC	TT	1946842470
SNP_P4_69624_6772974	NC_021164.1	Ca_kabuli_chr05	6772974	GG	AA	1946842472
SNP_P4_69625_6772983	NC_021164.1	Ca_kabuli_chr05	6772983	TT	CC	1946842474
SNP_P4_69626_6773134	NC_021164.1	Ca_kabuli_chr05	6773134	AA	GG	1946842476
SNP_P4_69627_6773245	NC_021164.1	Ca_kabuli_chr05	6773245	GG	TT	1946842478
SNP_P4_69628_6773348	NC_021164.1	Ca_kabuli_chr05	6773348	TT	AA	1946842480
SNP_P4_69629_6773487	NC_021164.1	Ca_kabuli_chr05	6773487	AA	GG	1946842482
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SNP_P4_69632_6791986	NC_021164.1	Ca_kabuli_chr05	6791986	AA	CC	1946842487
SNP_P4_69633_6791995	NC_021164.1	Ca_kabuli_chr05	6791995	TT	AA	1946842489
SNP_P4_69634_6791996	NC_021164.1	Ca_kabuli_chr05	6791996	TT	GG	1946842491
SNP_P4_69635_6821835	NC_021164.1	Ca_kabuli_chr05	6821835	TT	CC	1946842493
SNP_P4_69636_6821852	NC_021164.1	Ca_kabuli_chr05	6821852	AA	CC	1946842495
SNP_P4_69637_6830206	NC_021164.1	Ca_kabuli_chr05	6830206	CC	GG	1946842497
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SNP_P4_69639_6830429	NC_021164.1	Ca_kabuli_chr05	6830429	TT	GG	1946842501
SNP_P4_69640_6830446	NC_021164.1	Ca_kabuli_chr05	6830446	CC	TT	1946842503
SNP_P4_69641_6830539	NC_021164.1	Ca_kabuli_chr05	6830539	GG	AA	1946842505
SNP_P4_69642_6830578	NC_021164.1	Ca_kabuli_chr05	6830578	CC	TT	1946842507
SNP_P4_69643_6830589	NC_021164.1	Ca_kabuli_chr05	6830589	CC	TT	1946842509
SNP_P4_69644_6830797	NC_021164.1	Ca_kabuli_chr05	6830797	AA	GG	1946842511
SNP_P4_69645_6830875	NC_021164.1	Ca_kabuli_chr05	6830875	TT	GG	1946842513
SNP_P4_69646_6830893	NC_021164.1	Ca_kabuli_chr05	6830893	AA	GG	1946842515
SNP_P4_69647_6830920	NC_021164.1	Ca_kabuli_chr05	6830920	AA	GG	1946842517
SNP_P4_69648_6830930	NC_021164.1	Ca_kabuli_chr05	6830930	CC	AA	1946842519
SNP_P4_69649_6830933	NC_021164.1	Ca_kabuli_chr05	6830933	CC	TT	1946842521
SNP_P4_69650_6830948	NC_021164.1	Ca_kabuli_chr05	6830948	AA	GG	1946842523
SNP_P4_69651_6831383	NC_021164.1	Ca_kabuli_chr05	6831383	AA	GG	1946842525
SNP_P4_69652_6831456	NC_021164.1	Ca_kabuli_chr05	6831456	AA	GG	1946842527
SNP_P4_69653_6831507	NC_021164.1	Ca_kabuli_chr05	6831507	GG	AA	1946842529
SNP_P4_69654_6831563	NC_021164.1	Ca_kabuli_chr05	6831563	TT	CC	1946842531
SNP_P4_69655_6831715	NC_021164.1	Ca_kabuli_chr05	6831715	AA	GG	1946842533
SNP_P4_69657_6832854	NC_021164.1	Ca_kabuli_chr05	6832854	TT	CC	1946842534
SNP_P4_69658_6832855	NC_021164.1	Ca_kabuli_chr05	6832855	CC	TT	1946842536

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_69659_6832958	NC_021164.1	Ca_kabuli_chr05	6832958	GG	AA	1946842539
SNP_P4_69660_6832968	NC_021164.1	Ca_kabuli_chr05	6832968	TT	AA	1946842541
SNP_P4_69662_6833658	NC_021164.1	Ca_kabuli_chr05	6833658	TT	AA	1946842543
SNP_P4_69664_6833713	NC_021164.1	Ca_kabuli_chr05	6833713	GG	CC	1946842545
SNP_P4_69665_6833769	NC_021164.1	Ca_kabuli_chr05	6833769	CC	TT	1946842547
SNP_P4_69667_6833877	NC_021164.1	Ca_kabuli_chr05	6833877	GG	AA	1946842549
SNP_P4_69669_6834075	NC_021164.1	Ca_kabuli_chr05	6834075	AA	TT	1946842551
SNP_P4_69670_6834233	NC_021164.1	Ca_kabuli_chr05	6834233	TT	CC	1946842553
SNP_P4_69672_6834319	NC_021164.1	Ca_kabuli_chr05	6834319	AA	TT	1946842555
SNP_P4_69673_6834384	NC_021164.1	Ca_kabuli_chr05	6834384	CC	AA	1946842557
SNP_P4_69674_6834393	NC_021164.1	Ca_kabuli_chr05	6834393	TT	GG	1946842558
SNP_P4_69675_6834482	NC_021164.1	Ca_kabuli_chr05	6834482	AA	TT	1946842560
SNP_P4_69676_6834492	NC_021164.1	Ca_kabuli_chr05	6834492	TT	CC	1946842562
SNP_P4_69677_6834577	NC_021164.1	Ca_kabuli_chr05	6834577	GG	AA	1946842564
SNP_P4_69678_6834613	NC_021164.1	Ca_kabuli_chr05	6834613	AA	TT	1946842566
SNP_P4_69679_6834614	NC_021164.1	Ca_kabuli_chr05	6834614	CC	TT	1946842568
SNP_P4_69680_6834624	NC_021164.1	Ca_kabuli_chr05	6834624	GG	TT	1946842570
SNP_P4_69681_6834675	NC_021164.1	Ca_kabuli_chr05	6834675	AA	CC	1946842572
SNP_P4_69682_6834690	NC_021164.1	Ca_kabuli_chr05	6834690	TT	CC	1946842574
SNP_P4_69683_6834698	NC_021164.1	Ca_kabuli_chr05	6834698	AA	CC	1946842576
SNP_P4_69685_6834723	NC_021164.1	Ca_kabuli_chr05	6834723	TT	GG	1946842578
SNP_P4_69686_6834755	NC_021164.1	Ca_kabuli_chr05	6834755	AA	TT	1946842580
SNP_P4_69687_6834775	NC_021164.1	Ca_kabuli_chr05	6834775	TT	AA	1946842581
SNP_P4_69688_6834835	NC_021164.1	Ca_kabuli_chr05	6834835	TT	AA	1946842583
SNP_P4_69689_6834887	NC_021164.1	Ca_kabuli_chr05	6834887	CC	TT	1946842585
SNP_P4_69690_6834888	NC_021164.1	Ca_kabuli_chr05	6834888	TT	AA	1946842587
SNP_P4_69692_6835152	NC_021164.1	Ca_kabuli_chr05	6835152	GG	TT	1946842589
SNP_P4_69693_6835200	NC_021164.1	Ca_kabuli_chr05	6835200	TT	CC	1946842591
SNP_P4_69694_6835399	NC_021164.1	Ca_kabuli_chr05	6835399	AA	TT	1946842593
SNP_P4_69695_6835547	NC_021164.1	Ca_kabuli_chr05	6835547	CC	AA	1946842595
SNP_P4_69696_6835690	NC_021164.1	Ca_kabuli_chr05	6835690	TT	AA	1946842597
SNP_P4_69697_6835695	NC_021164.1	Ca_kabuli_chr05	6835695	TT	GG	1946842599
SNP_P4_69698_6835750	NC_021164.1	Ca_kabuli_chr05	6835750	GG	AA	1946842601
SNP_P4_69699_6835751	NC_021164.1	Ca_kabuli_chr05	6835751	TT	CC	1946842603
SNP_P4_69700_6835784	NC_021164.1	Ca_kabuli_chr05	6835784	GG	AA	1946842605
SNP_P4_69701_6835863	NC_021164.1	Ca_kabuli_chr05	6835863	TT	CC	1946842607
SNP_P4_69702_6835878	NC_021164.1	Ca_kabuli_chr05	6835878	CC	TT	1946842609
SNP_P4_69703_6836020	NC_021164.1	Ca_kabuli_chr05	6836020	CC	TT	1946842611
SNP_P4_69704_6836141	NC_021164.1	Ca_kabuli_chr05	6836141	AA	GG	1946842613
SNP_P4_69705_6836160	NC_021164.1	Ca_kabuli_chr05	6836160	TT	CC	1946842615
SNP_P4_69706_6836214	NC_021164.1	Ca_kabuli_chr05	6836214	CC	GG	1946842616
SNP_P4_69707_6836350	NC_021164.1	Ca_kabuli_chr05	6836350	AA	TT	1946842736

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_69708_6836450	NC_021164.1	Ca_kabuli_chr05	6836450	CC	GG	1946842738
SNP_P4_69709_6836513	NC_021164.1	Ca_kabuli_chr05	6836513	CC	TT	1946842740
SNP_P4_69710_6836567	NC_021164.1	Ca_kabuli_chr05	6836567	CC	TT	1946842742
SNP_P4_69711_6836571	NC_021164.1	Ca_kabuli_chr05	6836571	AA	CC	1946842744
SNP_P4_69712_6836615	NC_021164.1	Ca_kabuli_chr05	6836615	AA	GG	1946842746
SNP_P4_69713_6837180	NC_021164.1	Ca_kabuli_chr05	6837180	TT	CC	1946842748
SNP_P4_69714_6837235	NC_021164.1	Ca_kabuli_chr05	6837235	GG	AA	1946842750
SNP_P4_69715_6837352	NC_021164.1	Ca_kabuli_chr05	6837352	AA	CC	1946842752
SNP_P4_69716_6837415	NC_021164.1	Ca_kabuli_chr05	6837415	AA	TT	1946842754
SNP_P4_69717_6837423	NC_021164.1	Ca_kabuli_chr05	6837423	CC	GG	1946842756
SNP_P4_69718_6837425	NC_021164.1	Ca_kabuli_chr05	6837425	AA	GG	1946842758
SNP_P4_69719_6837767	NC_021164.1	Ca_kabuli_chr05	6837767	CC	GG	1946842759
SNP_P4_69720_6837905	NC_021164.1	Ca_kabuli_chr05	6837905	GG	AA	1946842761
SNP_P4_69721_6837956	NC_021164.1	Ca_kabuli_chr05	6837956	AA	GG	1946842763
SNP_P4_69723_6838027	NC_021164.1	Ca_kabuli_chr05	6838027	AA	GG	1946842765
SNP_P4_69724_6849305	NC_021164.1	Ca_kabuli_chr05	6849305	CC	TT	1946842767
SNP_P4_69725_6849417	NC_021164.1	Ca_kabuli_chr05	6849417	TT	CC	1946842769
SNP_P4_69726_6872417	NC_021164.1	Ca_kabuli_chr05	6872417	GG	AA	1946842771
SNP_P4_69727_6872508	NC_021164.1	Ca_kabuli_chr05	6872508	CC	TT	1946842773
SNP_P4_69729_6875422	NC_021164.1	Ca_kabuli_chr05	6875422	GG	TT	1946842775
SNP_P4_69730_6875426	NC_021164.1	Ca_kabuli_chr05	6875426	AA	GG	1946842777
SNP_P4_69731_6896735	NC_021164.1	Ca_kabuli_chr05	6896735	GG	AA	1946842779
SNP_P4_69732_6897083	NC_021164.1	Ca_kabuli_chr05	6897083	TT	GG	1946842781
SNP_P4_69733_6897825	NC_021164.1	Ca_kabuli_chr05	6897825	TT	GG	1946842782
SNP_P4_69734_6897939	NC_021164.1	Ca_kabuli_chr05	6897939	AA	TT	1946842783
SNP_P4_69735_6897958	NC_021164.1	Ca_kabuli_chr05	6897958	GG	AA	1946842784
SNP_P4_69736_6898303	NC_021164.1	Ca_kabuli_chr05	6898303	AA	TT	1946842785
SNP_P4_69737_6898355	NC_021164.1	Ca_kabuli_chr05	6898355	TT	CC	1946842787
SNP_P4_69738_6898443	NC_021164.1	Ca_kabuli_chr05	6898443	CC	GG	1946842789
SNP_P4_69739_6898450	NC_021164.1	Ca_kabuli_chr05	6898450	AA	GG	1946842791
SNP_P4_69740_6898458	NC_021164.1	Ca_kabuli_chr05	6898458	TT	CC	1946842793
SNP_P4_69741_6898467	NC_021164.1	Ca_kabuli_chr05	6898467	TT	CC	1946842795
SNP_P4_69742_6901712	NC_021164.1	Ca_kabuli_chr05	6901712	CC	TT	1946842797
SNP_P4_69744_6906291	NC_021164.1	Ca_kabuli_chr05	6906291	GG	AA	1946842799
SNP_P4_69745_6906431	NC_021164.1	Ca_kabuli_chr05	6906431	AA	GG	1946842801
SNP_P4_69746_6906454	NC_021164.1	Ca_kabuli_chr05	6906454	GG	AA	1946842803
SNP_P4_69747_6906629	NC_021164.1	Ca_kabuli_chr05	6906629	CC	TT	1946842805
SNP_P4_69748_6906636	NC_021164.1	Ca_kabuli_chr05	6906636	AA	GG	1946842807
SNP_P4_69749_6906774	NC_021164.1	Ca_kabuli_chr05	6906774	GG	CC	1946842808
SNP_P4_69750_6906811	NC_021164.1	Ca_kabuli_chr05	6906811	AA	TT	1946842810
SNP_P4_69751_6906930	NC_021164.1	Ca_kabuli_chr05	6906930	GG	TT	1946842812
SNP_P4_69752_6907067	NC_021164.1	Ca_kabuli_chr05	6907067	CC	GG	1946842814

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_69754_6907236	NC_021164.1	Ca_kabuli_chr05	6907236	GG	AA	1946842818
SNP_P4_69755_6907237	NC_021164.1	Ca_kabuli_chr05	6907237	TT	AA	1946842820
SNP_P4_69756_6907238	NC_021164.1	Ca_kabuli_chr05	6907238	TT	AA	1946842822
SNP_P4_69757_6907329	NC_021164.1	Ca_kabuli_chr05	6907329	TT	CC	1946842824
SNP_P4_69758_6907335	NC_021164.1	Ca_kabuli_chr05	6907335	AA	GG	1946842826
SNP_P4_69759_6907399	NC_021164.1	Ca_kabuli_chr05	6907399	GG	TT	1946842828
SNP_P4_69760_6907403	NC_021164.1	Ca_kabuli_chr05	6907403	CC	TT	1946842830
SNP_P4_69761_6907407	NC_021164.1	Ca_kabuli_chr05	6907407	AA	CC	1946842832
SNP_P4_69762_6907409	NC_021164.1	Ca_kabuli_chr05	6907409	AA	GG	1946842834
SNP_P4_69763_6907474	NC_021164.1	Ca_kabuli_chr05	6907474	TT	CC	1946842836
SNP_P4_69764_6907524	NC_021164.1	Ca_kabuli_chr05	6907524	GG	AA	1946842837
SNP_P4_69765_6907546	NC_021164.1	Ca_kabuli_chr05	6907546	AA	GG	1946842839
SNP_P4_69767_6907661	NC_021164.1	Ca_kabuli_chr05	6907661	CC	TT	1946842841
SNP_P4_69768_6907712	NC_021164.1	Ca_kabuli_chr05	6907712	GG	CC	1946842843
SNP_P4_69769_6907713	NC_021164.1	Ca_kabuli_chr05	6907713	AA	GG	1946842845
SNP_P4_69770_6907720	NC_021164.1	Ca_kabuli_chr05	6907720	GG	AA	1946842847
SNP_P4_69771_6907781	NC_021164.1	Ca_kabuli_chr05	6907781	AA	GG	1946842849
SNP_P4_69772_6907800	NC_021164.1	Ca_kabuli_chr05	6907800	TT	AA	1946842851
SNP_P4_69774_6908161	NC_021164.1	Ca_kabuli_chr05	6908161	TT	CC	1946842853
SNP_P4_69775_6908174	NC_021164.1	Ca_kabuli_chr05	6908174	TT	CC	1946842855
SNP_P4_69776_6908242	NC_021164.1	Ca_kabuli_chr05	6908242	AA	GG	1946842857
SNP_P4_69780_6909720	NC_021164.1	Ca_kabuli_chr05	6909720	GG	AA	1946842859
SNP_P4_69781_6909722	NC_021164.1	Ca_kabuli_chr05	6909722	TT	CC	1946842861
SNP_P4_69782_6909725	NC_021164.1	Ca_kabuli_chr05	6909725	TT	CC	1946842863
SNP_P4_69783_6909817	NC_021164.1	Ca_kabuli_chr05	6909817	GG	AA	1946842865
SNP_P4_69784_6909903	NC_021164.1	Ca_kabuli_chr05	6909903	CC	TT	1946842867
SNP_P4_69785_6909912	NC_021164.1	Ca_kabuli_chr05	6909912	CC	TT	1946842869
SNP_P4_69786_6909931	NC_021164.1	Ca_kabuli_chr05	6909931	TT	GG	1946842871
SNP_P4_69788_6909995	NC_021164.1	Ca_kabuli_chr05	6909995	AA	GG	1946842873
SNP_P4_69789_6910221	NC_021164.1	Ca_kabuli_chr05	6910221	GG	AA	1946842875
SNP_P4_69791_6910707	NC_021164.1	Ca_kabuli_chr05	6910707	GG	TT	1946842877
SNP_P4_69792_6910732	NC_021164.1	Ca_kabuli_chr05	6910732	TT	AA	1946842879
SNP_P4_69793_6911796	NC_021164.1	Ca_kabuli_chr05	6911796	CC	GG	1946842881
SNP_P4_69794_6911925	NC_021164.1	Ca_kabuli_chr05	6911925	AA	GG	1946842883
SNP_P4_69795_6912562	NC_021164.1	Ca_kabuli_chr05	6912562	TT	CC	1946842885
SNP_P4_69796_6912639	NC_021164.1	Ca_kabuli_chr05	6912639	AA	GG	1946842887
SNP_P4_69797_6912653	NC_021164.1	Ca_kabuli_chr05	6912653	CC	TT	1946842889
SNP_P4_69798_6913533	NC_021164.1	Ca_kabuli_chr05	6913533	AA	TT	1946842891
SNP_P4_69799_6913570	NC_021164.1	Ca_kabuli_chr05	6913570	CC	TT	1946842893
SNP_P4_69800_6913609	NC_021164.1	Ca_kabuli_chr05	6913609	AA	GG	1946842895
SNP_P4_69801_6913632	NC_021164.1	Ca_kabuli_chr05	6913632	CC	AA	1946842897

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_69803_6913835	NC_021164.1	Ca_kabuli_chr05	6913835	TT	GG	1946842901
SNP_P4_69804_6913861	NC_021164.1	Ca_kabuli_chr05	6913861	TT	GG	1946842903
SNP_P4_69805_6913931	NC_021164.1	Ca_kabuli_chr05	6913931	CC	TT	1946842905
SNP_P4_69806_6914049	NC_021164.1	Ca_kabuli_chr05	6914049	CC	TT	1946842907
SNP_P4_69807_6914052	NC_021164.1	Ca_kabuli_chr05	6914052	AA	GG	1946842909
SNP_P4_69808_6914194	NC_021164.1	Ca_kabuli_chr05	6914194	TT	CC	1946842911
SNP_P4_69809_6914729	NC_021164.1	Ca_kabuli_chr05	6914729	AA	GG	1946842913
SNP_P4_69810_6914776	NC_021164.1	Ca_kabuli_chr05	6914776	CC	AA	1946842915
SNP_P4_69811_6914793	NC_021164.1	Ca_kabuli_chr05	6914793	CC	TT	1946842917
SNP_P4_69812_6914913	NC_021164.1	Ca_kabuli_chr05	6914913	CC	TT	1946842919
SNP_P4_69813_6914934	NC_021164.1	Ca_kabuli_chr05	6914934	GG	TT	1946842921
SNP_P4_69814_6915081	NC_021164.1	Ca_kabuli_chr05	6915081	CC	TT	1946842923
SNP_P4_69815_6915088	NC_021164.1	Ca_kabuli_chr05	6915088	GG	AA	1946842925
SNP_P4_69816_6915112	NC_021164.1	Ca_kabuli_chr05	6915112	GG	AA	1946842927
SNP_P4_69817_6915173	NC_021164.1	Ca_kabuli_chr05	6915173	TT	GG	1946842929
SNP_P4_69818_6915178	NC_021164.1	Ca_kabuli_chr05	6915178	CC	GG	1946842931
SNP_P4_69819_6915186	NC_021164.1	Ca_kabuli_chr05	6915186	GG	AA	1946842933
SNP_P4_69820_6915187	NC_021164.1	Ca_kabuli_chr05	6915187	TT	AA	1946842935
SNP_P4_69821_6915191	NC_021164.1	Ca_kabuli_chr05	6915191	TT	CC	1946842937
SNP_P4_69822_6915211	NC_021164.1	Ca_kabuli_chr05	6915211	GG	AA	1946842939
SNP_P4_69823_6942482	NC_021164.1	Ca_kabuli_chr05	6942482	AA	TT	1946842941
SNP_P4_69824_7000860	NC_021164.1	Ca_kabuli_chr05	7000860	GG	AA	1946842943
SNP_P4_69825_7002040	NC_021164.1	Ca_kabuli_chr05	7002040	AA	GG	1946842945
SNP_P4_69826_7003273	NC_021164.1	Ca_kabuli_chr05	7003273	TT	CC	1946842947
SNP_P4_69828_7023675	NC_021164.1	Ca_kabuli_chr05	7023675	GG	AA	1946842949
SNP_P4_69829_7023682	NC_021164.1	Ca_kabuli_chr05	7023682	TT	CC	1946842951
SNP_P4_69830_7023698	NC_021164.1	Ca_kabuli_chr05	7023698	AA	GG	1946842953
SNP_P4_69831_7023908	NC_021164.1	Ca_kabuli_chr05	7023908	AA	GG	1946842955
SNP_P4_69832_7034890	NC_021164.1	Ca_kabuli_chr05	7034890	CC	TT	1946842957
SNP_P4_69833_7092535	NC_021164.1	Ca_kabuli_chr05	7092535	AA	CC	1946842959
SNP_P4_69834_7092556	NC_021164.1	Ca_kabuli_chr05	7092556	TT	CC	1946842961
SNP_P4_69835_7092589	NC_021164.1	Ca_kabuli_chr05	7092589	AA	GG	1946842963
SNP_P4_69836_7092636	NC_021164.1	Ca_kabuli_chr05	7092636	AA	TT	1946842965
SNP_P4_69837_7092763	NC_021164.1	Ca_kabuli_chr05	7092763	TT	CC	1946842967
SNP_P4_69839_7092850	NC_021164.1	Ca_kabuli_chr05	7092850	TT	CC	1946842969
SNP_P4_69840_7092866	NC_021164.1	Ca_kabuli_chr05	7092866	TT	CC	1946842971
SNP_P4_69841_7092870	NC_021164.1	Ca_kabuli_chr05	7092870	AA	GG	1946842973
SNP_P4_69842_7093141	NC_021164.1	Ca_kabuli_chr05	7093141	GG	AA	1946842975
SNP_P4_69843_7093148	NC_021164.1	Ca_kabuli_chr05	7093148	TT	CC	1946842977
SNP_P4_69845_7103654	NC_021164.1	Ca_kabuli_chr05	7103654	AA	TT	1946842979
SNP_P4_69846_7103693	NC_021164.1	Ca_kabuli_chr05	7103693	TT	AA	1946842981

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_69847_7103979	NC_021164.1	Ca_kabuli_chr05	7103979	AA	GG	1946842983
SNP_P4_69849_7107072	NC_021164.1	Ca_kabuli_chr05	7107072	CC	GG	1946842985
SNP_P4_69850_7107075	NC_021164.1	Ca_kabuli_chr05	7107075	AA	GG	1946842987
SNP_P4_69851_7107124	NC_021164.1	Ca_kabuli_chr05	7107124	CC	TT	1946842989
SNP_P4_69852_7107342	NC_021164.1	Ca_kabuli_chr05	7107342	AA	CC	1946842991
SNP_P4_69853_7107804	NC_021164.1	Ca_kabuli_chr05	7107804	CC	TT	1946842993
SNP_P4_69855_7114454	NC_021164.1	Ca_kabuli_chr05	7114454	GG	AA	1946842995
SNP_P4_69856_7114484	NC_021164.1	Ca_kabuli_chr05	7114484	AA	GG	1946842997
SNP_P4_69857_7114487	NC_021164.1	Ca_kabuli_chr05	7114487	TT	CC	1946842999
SNP_P4_69858_7114509	NC_021164.1	Ca_kabuli_chr05	7114509	CC	TT	1946843001
SNP_P4_69859_7114510	NC_021164.1	Ca_kabuli_chr05	7114510	TT	CC	1946843003
SNP_P4_69861_7120141	NC_021164.1	Ca_kabuli_chr05	7120141	CC	TT	1946843005
SNP_P4_69862_7120262	NC_021164.1	Ca_kabuli_chr05	7120262	CC	TT	1946843007
SNP_P4_69863_7120303	NC_021164.1	Ca_kabuli_chr05	7120303	AA	GG	1946843009
SNP_P4_69864_7123642	NC_021164.1	Ca_kabuli_chr05	7123642	AA	GG	1946843011
SNP_P4_69865_7124053	NC_021164.1	Ca_kabuli_chr05	7124053	GG	TT	1946843013
SNP_P4_69866_7124060	NC_021164.1	Ca_kabuli_chr05	7124060	TT	AA	1946843015
SNP_P4_69867_7124064	NC_021164.1	Ca_kabuli_chr05	7124064	GG	CC	1946843017
SNP_P4_69868_7125260	NC_021164.1	Ca_kabuli_chr05	7125260	GG	AA	1946843019
SNP_P4_69869_7125305	NC_021164.1	Ca_kabuli_chr05	7125305	AA	GG	1946843021
SNP_P4_69870_7125503	NC_021164.1	Ca_kabuli_chr05	7125503	TT	CC	1946843023
SNP_P4_69871_7125559	NC_021164.1	Ca_kabuli_chr05	7125559	AA	CC	1946843025
SNP_P4_69872_7125560	NC_021164.1	Ca_kabuli_chr05	7125560	AA	CC	1946843027
SNP_P4_69873_7125570	NC_021164.1	Ca_kabuli_chr05	7125570	AA	TT	1946843029
SNP_P4_69874_7125745	NC_021164.1	Ca_kabuli_chr05	7125745	TT	AA	1946843031
SNP_P4_69875_7226932	NC_021164.1	Ca_kabuli_chr05	7226932	TT	CC	1946843033
SNP_P4_69876_7227493	NC_021164.1	Ca_kabuli_chr05	7227493	AA	GG	1946843035
SNP_P4_69877_7227497	NC_021164.1	Ca_kabuli_chr05	7227497	TT	GG	1946843038
SNP_P4_69878_7227719	NC_021164.1	Ca_kabuli_chr05	7227719	GG	CC	1946843040
SNP_P4_69879_7232850	NC_021164.1	Ca_kabuli_chr05	7232850	CC	TT	1946843042
SNP_P4_69880_7233013	NC_021164.1	Ca_kabuli_chr05	7233013	AA	TT	1946843044
SNP_P4_69881_7233043	NC_021164.1	Ca_kabuli_chr05	7233043	TT	CC	1946843046
SNP_P4_69882_7233071	NC_021164.1	Ca_kabuli_chr05	7233071	TT	CC	1946843048
SNP_P4_69883_7233162	NC_021164.1	Ca_kabuli_chr05	7233162	TT	CC	1946843050
SNP_P4_69884_7236290	NC_021164.1	Ca_kabuli_chr05	7236290	CC	GG	1946843052
SNP_P4_69885_7236321	NC_021164.1	Ca_kabuli_chr05	7236321	TT	GG	1946843054
SNP_P4_69886_7236372	NC_021164.1	Ca_kabuli_chr05	7236372	CC	AA	1946843056
SNP_P4_69887_7236374	NC_021164.1	Ca_kabuli_chr05	7236374	TT	GG	1946843058
SNP_P4_69888_7236695	NC_021164.1	Ca_kabuli_chr05	7236695	TT	GG	1946843060
SNP_P4_69890_7262211	NC_021164.1	Ca_kabuli_chr05	7262211	CC	TT	1946843062
SNP_P4_69891_7263182	NC_021164.1	Ca_kabuli_chr05	7263182	GG	AA	1946843064
SNP_P4_69892_7264054	NC_021164.1	Ca_kabuli_chr05	7264054	CC	GG	1946843066

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_69893_7264067	NC_021164.1	Ca_kabuli_chr05	7264067	TT	CC	1946843068
SNP_P4_69894_7267111	NC_021164.1	Ca_kabuli_chr05	7267111	TT	CC	1946843070
SNP_P4_69895_7267566	NC_021164.1	Ca_kabuli_chr05	7267566	AA	GG	1946843072
SNP_P4_69897_7293480	NC_021164.1	Ca_kabuli_chr05	7293480	AA	GG	1946843074
SNP_P4_69898_7317569	NC_021164.1	Ca_kabuli_chr05	7317569	TT	CC	1946843076
SNP_P4_69899_7317788	NC_021164.1	Ca_kabuli_chr05	7317788	TT	GG	1946843078
SNP_P4_69900_7326932	NC_021164.1	Ca_kabuli_chr05	7326932	AA	TT	1946843080
SNP_P4_69901_7327274	NC_021164.1	Ca_kabuli_chr05	7327274	AA	GG	1946843082
SNP_P4_69902_7327349	NC_021164.1	Ca_kabuli_chr05	7327349	TT	AA	1946843084
SNP_P4_69903_7339407	NC_021164.1	Ca_kabuli_chr05	7339407	TT	GG	1946843086
SNP_P4_69904_7358598	NC_021164.1	Ca_kabuli_chr05	7358598	GG	AA	1946843088
SNP_P4_69905_7359142	NC_021164.1	Ca_kabuli_chr05	7359142	AA	GG	1946843090
SNP_P4_69906_7359185	NC_021164.1	Ca_kabuli_chr05	7359185	TT	CC	1946843091
SNP_P4_69907_7359222	NC_021164.1	Ca_kabuli_chr05	7359222	TT	CC	1946843093
SNP_P4_69908_7359527	NC_021164.1	Ca_kabuli_chr05	7359527	AA	GG	1946843095
SNP_P4_69909_7359550	NC_021164.1	Ca_kabuli_chr05	7359550	TT	GG	1946843098
SNP_P4_69910_7359610	NC_021164.1	Ca_kabuli_chr05	7359610	AA	GG	1946843100
SNP_P4_69911_7359680	NC_021164.1	Ca_kabuli_chr05	7359680	AA	CC	1946843102
SNP_P4_69912_7359709	NC_021164.1	Ca_kabuli_chr05	7359709	AA	GG	1946843104
SNP_P4_69913_7359715	NC_021164.1	Ca_kabuli_chr05	7359715	CC	TT	1946843106
SNP_P4_69914_7359725	NC_021164.1	Ca_kabuli_chr05	7359725	GG	TT	1946843108
SNP_P4_69915_7359738	NC_021164.1	Ca_kabuli_chr05	7359738	TT	GG	1946843110
SNP_P4_69916_7359769	NC_021164.1	Ca_kabuli_chr05	7359769	GG	AA	1946843112
SNP_P4_69917_7365464	NC_021164.1	Ca_kabuli_chr05	7365464	TT	CC	1946843114
SNP_P4_69918_7385679	NC_021164.1	Ca_kabuli_chr05	7385679	TT	AA	1946843116
SNP_P4_69919_7388214	NC_021164.1	Ca_kabuli_chr05	7388214	GG	TT	1946843118
SNP_P4_69920_7404116	NC_021164.1	Ca_kabuli_chr05	7404116	TT	GG	1946843120
SNP_P4_69921_7448892	NC_021164.1	Ca_kabuli_chr05	7448892	AA	TT	1946843122
SNP_P4_69922_7464834	NC_021164.1	Ca_kabuli_chr05	7464834	AA	GG	1946843124
SNP_P4_69923_7498661	NC_021164.1	Ca_kabuli_chr05	7498661	CC	TT	1946843126
SNP_P4_69924_7502924	NC_021164.1	Ca_kabuli_chr05	7502924	AA	CC	1946843128
SNP_P4_69925_7503398	NC_021164.1	Ca_kabuli_chr05	7503398	AA	GG	1946843130
SNP_P4_69926_7503444	NC_021164.1	Ca_kabuli_chr05	7503444	CC	TT	1946843132
SNP_P4_69927_7509287	NC_021164.1	Ca_kabuli_chr05	7509287	AA	CC	1946843134
SNP_P4_69928_7519387	NC_021164.1	Ca_kabuli_chr05	7519387	TT	CC	1946843136
SNP_P4_69929_7519563	NC_021164.1	Ca_kabuli_chr05	7519563	GG	TT	1946843138
SNP_P4_69932_7564906	NC_021164.1	Ca_kabuli_chr05	7564906	GG	AA	1946843140
SNP_P4_69933_7569503	NC_021164.1	Ca_kabuli_chr05	7569503	AA	CC	1946843142
SNP_P4_69934_7584380	NC_021164.1	Ca_kabuli_chr05	7584380	AA	CC	1946843144
SNP_P4_69935_7602670	NC_021164.1	Ca_kabuli_chr05	7602670	CC	TT	1946843146
SNP_P4_69936_7602678	NC_021164.1	Ca_kabuli_chr05	7602678	AA	CC	1946843148
SNP_P4_69937_7617640	NC_021164.1	Ca_kabuli_chr05	7617640	GG	CC	1946843150

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_69938_7624127	NC_021164.1	Ca_kabuli_chr05	7624127	GG	AA	1946843152
SNP_P4_69940_7647035	NC_021164.1	Ca_kabuli_chr05	7647035	AA	GG	1946843154
SNP_P4_69941_7648988	NC_021164.1	Ca_kabuli_chr05	7648988	TT	CC	1946843156
SNP_P4_69942_7649078	NC_021164.1	Ca_kabuli_chr05	7649078	GG	AA	1946843158
SNP_P4_69943_7649112	NC_021164.1	Ca_kabuli_chr05	7649112	CC	TT	1946843160
SNP_P4_69944_7649114	NC_021164.1	Ca_kabuli_chr05	7649114	GG	AA	1946843162
SNP_P4_69945_7654385	NC_021164.1	Ca_kabuli_chr05	7654385	TT	CC	1946843164
SNP_P4_69946_7655024	NC_021164.1	Ca_kabuli_chr05	7655024	TT	CC	1946843166
SNP_P4_69947_7688085	NC_021164.1	Ca_kabuli_chr05	7688085	GG	TT	1946843168
SNP_P4_69948_7701490	NC_021164.1	Ca_kabuli_chr05	7701490	GG	AA	1946843170
SNP_P4_69949_7701503	NC_021164.1	Ca_kabuli_chr05	7701503	TT	CC	1946843172
SNP_P4_69950_7702329	NC_021164.1	Ca_kabuli_chr05	7702329	GG	AA	1946843174
SNP_P4_69951_7705480	NC_021164.1	Ca_kabuli_chr05	7705480	AA	TT	1946843176
SNP_P4_69952_7707391	NC_021164.1	Ca_kabuli_chr05	7707391	GG	TT	1946843178
SNP_P4_69953_7707392	NC_021164.1	Ca_kabuli_chr05	7707392	AA	TT	1946843180
SNP_P4_69954_7707511	NC_021164.1	Ca_kabuli_chr05	7707511	TT	AA	1946843182
SNP_P4_69955_7707536	NC_021164.1	Ca_kabuli_chr05	7707536	AA	GG	1946843184
SNP_P4_69956_7707558	NC_021164.1	Ca_kabuli_chr05	7707558	AA	GG	1946843186
SNP_P4_69957_7707569	NC_021164.1	Ca_kabuli_chr05	7707569	AA	CC	1946843188
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SNP_P4_69959_7707637	NC_021164.1	Ca_kabuli_chr05	7707637	AA	GG	1946843192
SNP_P4_69960_7707650	NC_021164.1	Ca_kabuli_chr05	7707650	AA	CC	1946843194
SNP_P4_69961_7707665	NC_021164.1	Ca_kabuli_chr05	7707665	AA	GG	1946843196
SNP_P4_69962_7708050	NC_021164.1	Ca_kabuli_chr05	7708050	GG	CC	1946843198
SNP_P4_69963_7710685	NC_021164.1	Ca_kabuli_chr05	7710685	GG	AA	1946843200
SNP_P4_69964_7710692	NC_021164.1	Ca_kabuli_chr05	7710692	GG	AA	1946843202
SNP_P4_69966_7728228	NC_021164.1	Ca_kabuli_chr05	7728228	CC	TT	1946843204
SNP_P4_69967_7751934	NC_021164.1	Ca_kabuli_chr05	7751934	CC	TT	1946843206
SNP_P4_69968_7751961	NC_021164.1	Ca_kabuli_chr05	7751961	AA	TT	1946843208
SNP_P4_69969_7752108	NC_021164.1	Ca_kabuli_chr05	7752108	AA	GG	1946843210
SNP_P4_69970_7752256	NC_021164.1	Ca_kabuli_chr05	7752256	GG	AA	1946843212
SNP_P4_69971_7752284	NC_021164.1	Ca_kabuli_chr05	7752284	TT	AA	1946843214
SNP_P4_69972_7752321	NC_021164.1	Ca_kabuli_chr05	7752321	CC	TT	1946843216
SNP_P4_69973_7775038	NC_021164.1	Ca_kabuli_chr05	7775038	TT	CC	1946843218
SNP_P4_69974_7775055	NC_021164.1	Ca_kabuli_chr05	7775055	GG	AA	1946843220
SNP_P4_69975_7775065	NC_021164.1	Ca_kabuli_chr05	7775065	AA	CC	1946843222
SNP_P4_69976_7775100	NC_021164.1	Ca_kabuli_chr05	7775100	GG	AA	1946843224
SNP_P4_69977_7775122	NC_021164.1	Ca_kabuli_chr05	7775122	TT	CC	1946843226
SNP_P4_69978_7775123	NC_021164.1	Ca_kabuli_chr05	7775123	TT	GG	1946843228
SNP_P4_69979_7775172	NC_021164.1	Ca_kabuli_chr05	7775172	TT	CC	1946843230
SNP_P4_69980_7775219	NC_021164.1	Ca_kabuli_chr05	7775219	CC	GG	1946843232
SNP_P4_69981_7775298	NC_021164.1	Ca_kabuli_chr05	7775298	AA	TT	1946843234

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_69982_7775375	NC_021164.1	Ca_kabuli_chr05	7775375	GG	AA	1946843236
SNP_P4_69983_7775426	NC_021164.1	Ca_kabuli_chr05	7775426	GG	TT	1946843238
SNP_P4_69984_7775456	NC_021164.1	Ca_kabuli_chr05	7775456	TT	CC	1946843240
SNP_P4_69985_7775472	NC_021164.1	Ca_kabuli_chr05	7775472	GG	AA	1946843242
SNP_P4_69986_7775497	NC_021164.1	Ca_kabuli_chr05	7775497	GG	CC	1946843243
SNP_P4_69987_7775516	NC_021164.1	Ca_kabuli_chr05	7775516	AA	GG	1946843245
SNP_P4_69989_7796712	NC_021164.1	Ca_kabuli_chr05	7796712	AA	TT	1946843247
SNP_P4_69990_7802501	NC_021164.1	Ca_kabuli_chr05	7802501	TT	GG	1946843249
SNP_P4_69991_7802979	NC_021164.1	Ca_kabuli_chr05	7802979	GG	AA	1946843251
SNP_P4_69992_7805208	NC_021164.1	Ca_kabuli_chr05	7805208	TT	AA	1946843253
SNP_P4_69993_7808088	NC_021164.1	Ca_kabuli_chr05	7808088	GG	TT	1946843255
SNP_P4_69994_7808148	NC_021164.1	Ca_kabuli_chr05	7808148	CC	AA	1946843257
SNP_P4_69995_7808154	NC_021164.1	Ca_kabuli_chr05	7808154	CC	TT	1946843259
SNP_P4_69996_7808179	NC_021164.1	Ca_kabuli_chr05	7808179	TT	CC	1946843261
SNP_P4_69997_7808407	NC_021164.1	Ca_kabuli_chr05	7808407	TT	AA	1946843263
SNP_P4_69998_7823450	NC_021164.1	Ca_kabuli_chr05	7823450	GG	AA	1946843265
SNP_P4_69999_7823487	NC_021164.1	Ca_kabuli_chr05	7823487	AA	GG	1946843267
SNP_P4_70000_7823515	NC_021164.1	Ca_kabuli_chr05	7823515	CC	AA	1946843269
SNP_P4_70001_7825517	NC_021164.1	Ca_kabuli_chr05	7825517	AA	GG	1946843271
SNP_P4_70002_7829309	NC_021164.1	Ca_kabuli_chr05	7829309	AA	TT	1946843273
SNP_P4_70003_7829311	NC_021164.1	Ca_kabuli_chr05	7829311	TT	AA	1946843275
SNP_P4_70004_7829312	NC_021164.1	Ca_kabuli_chr05	7829312	TT	AA	1946843276
SNP_P4_70005_7842160	NC_021164.1	Ca_kabuli_chr05	7842160	GG	AA	1946843278
SNP_P4_70006_7846192	NC_021164.1	Ca_kabuli_chr05	7846192	CC	AA	1946843280
SNP_P4_70008_7875689	NC_021164.1	Ca_kabuli_chr05	7875689	CC	TT	1946843282
SNP_P4_70009_7879133	NC_021164.1	Ca_kabuli_chr05	7879133	TT	CC	1946843284
SNP_P4_70010_7883611	NC_021164.1	Ca_kabuli_chr05	7883611	TT	CC	1946843286
SNP_P4_70011_7885167	NC_021164.1	Ca_kabuli_chr05	7885167	AA	CC	1946843288
SNP_P4_70013_7907286	NC_021164.1	Ca_kabuli_chr05	7907286	GG	CC	1946843290
SNP_P4_70015_7928311	NC_021164.1	Ca_kabuli_chr05	7928311	GG	CC	1946843292
SNP_P4_70016_7929683	NC_021164.1	Ca_kabuli_chr05	7929683	AA	GG	1946843294
SNP_P4_70018_7929805	NC_021164.1	Ca_kabuli_chr05	7929805	AA	TT	1946843296
SNP_P4_70019_7929826	NC_021164.1	Ca_kabuli_chr05	7929826	CC	AA	1946843298
SNP_P4_70020_7930070	NC_021164.1	Ca_kabuli_chr05	7930070	GG	AA	1946843300
SNP_P4_70021_7930096	NC_021164.1	Ca_kabuli_chr05	7930096	AA	GG	1946843302
SNP_P4_70022_7930155	NC_021164.1	Ca_kabuli_chr05	7930155	AA	GG	1946843304
SNP_P4_70023_7936996	NC_021164.1	Ca_kabuli_chr05	7936996	GG	AA	1946843306
SNP_P4_70025_7937570	NC_021164.1	Ca_kabuli_chr05	7937570	AA	CC	1946843308
SNP_P4_70026_7937594	NC_021164.1	Ca_kabuli_chr05	7937594	CC	AA	1946843310
SNP_P4_70027_7937607	NC_021164.1	Ca_kabuli_chr05	7937607	AA	GG	1946843313
SNP_P4_70028_7940728	NC_021164.1	Ca_kabuli_chr05	7940728	TT	CC	1946843315
SNP_P4_70029_7940797	NC_021164.1	Ca_kabuli_chr05	7940797	TT	CC	1946843317

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_70030_7941007	NC_021164.1	Ca_kabuli_chr05	7941007	GG	AA	1946843319
SNP_P4_70032_7941072	NC_021164.1	Ca_kabuli_chr05	7941072	AA	GG	1946843321
SNP_P4_70033_7941361	NC_021164.1	Ca_kabuli_chr05	7941361	CC	TT	1946843323
SNP_P4_70034_7941440	NC_021164.1	Ca_kabuli_chr05	7941440	TT	AA	1946843325
SNP_P4_70035_7941907	NC_021164.1	Ca_kabuli_chr05	7941907	GG	TT	1946843327
SNP_P4_70036_7947631	NC_021164.1	Ca_kabuli_chr05	7947631	AA	GG	1946843329
SNP_P4_70037_7947836	NC_021164.1	Ca_kabuli_chr05	7947836	TT	CC	1946843331
SNP_P4_70038_7983428	NC_021164.1	Ca_kabuli_chr05	7983428	CC	TT	1946843333
SNP_P4_70039_8035539	NC_021164.1	Ca_kabuli_chr05	8035539	TT	CC	1946843335
SNP_P4_70040_8035642	NC_021164.1	Ca_kabuli_chr05	8035642	CC	TT	1946843337
SNP_P4_70042_8040292	NC_021164.1	Ca_kabuli_chr05	8040292	AA	GG	1946843339
SNP_P4_70043_8040389	NC_021164.1	Ca_kabuli_chr05	8040389	TT	CC	1946843341
SNP_P4_70044_8040438	NC_021164.1	Ca_kabuli_chr05	8040438	TT	CC	1946843343
SNP_P4_70045_8040483	NC_021164.1	Ca_kabuli_chr05	8040483	AA	GG	1946843345
SNP_P4_70046_8040643	NC_021164.1	Ca_kabuli_chr05	8040643	TT	GG	1946843347
SNP_P4_70047_8040673	NC_021164.1	Ca_kabuli_chr05	8040673	CC	GG	1946843349
SNP_P4_70048_8040703	NC_021164.1	Ca_kabuli_chr05	8040703	TT	GG	1946843351
SNP_P4_70049_8051471	NC_021164.1	Ca_kabuli_chr05	8051471	AA	CC	1946843353
SNP_P4_70050_8053087	NC_021164.1	Ca_kabuli_chr05	8053087	AA	CC	1946843355
SNP_P4_70051_8061494	NC_021164.1	Ca_kabuli_chr05	8061494	TT	CC	1946843357
SNP_P4_70053_8126915	NC_021164.1	Ca_kabuli_chr05	8126915	AA	GG	1946843359
SNP_P4_70055_8135924	NC_021164.1	Ca_kabuli_chr05	8135924	GG	CC	1946843361
SNP_P4_70056_8138709	NC_021164.1	Ca_kabuli_chr05	8138709	AA	CC	1946843363
SNP_P4_70057_8138733	NC_021164.1	Ca_kabuli_chr05	8138733	TT	CC	1946843365
SNP_P4_70058_8161065	NC_021164.1	Ca_kabuli_chr05	8161065	AA	TT	1946843367
SNP_P4_70059_8163698	NC_021164.1	Ca_kabuli_chr05	8163698	GG	AA	1946843369
SNP_P4_70060_8163708	NC_021164.1	Ca_kabuli_chr05	8163708	TT	CC	1946843371
SNP_P4_70061_8163713	NC_021164.1	Ca_kabuli_chr05	8163713	GG	AA	1946843373
SNP_P4_70062_8164000	NC_021164.1	Ca_kabuli_chr05	8164000	CC	TT	1946843375
SNP_P4_70063_8164003	NC_021164.1	Ca_kabuli_chr05	8164003	CC	TT	1946843377
SNP_P4_70064_8164006	NC_021164.1	Ca_kabuli_chr05	8164006	AA	GG	1946843379
SNP_P4_70065_8164630	NC_021164.1	Ca_kabuli_chr05	8164630	AA	GG	1946843381
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SNP_P4_70067_8164726	NC_021164.1	Ca_kabuli_chr05	8164726	AA	TT	1946843385
SNP_P4_70068_8167029	NC_021164.1	Ca_kabuli_chr05	8167029	AA	TT	1946843387
SNP_P4_70069_8173546	NC_021164.1	Ca_kabuli_chr05	8173546	CC	TT	1946843389
SNP_P4_70070_8185966	NC_021164.1	Ca_kabuli_chr05	8185966	AA	GG	1946843391
SNP_P4_70071_8186229	NC_021164.1	Ca_kabuli_chr05	8186229	CC	TT	1946843393
SNP_P4_70072_8186271	NC_021164.1	Ca_kabuli_chr05	8186271	TT	GG	1946843395
SNP_P4_70073_8186585	NC_021164.1	Ca_kabuli_chr05	8186585	TT	GG	1946843397
SNP_P4_70074_8186631	NC_021164.1	Ca_kabuli_chr05	8186631	GG	CC	1946843399
SNP_P4_70075_8198094	NC_021164.1	Ca_kabuli_chr05	8198094	GG	TT	1946843401

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_70078_8210305	NC_021164.1	Ca_kabuli_chr05	8210305	TT	CC	1946843407
SNP_P4_70079_8222906	NC_021164.1	Ca_kabuli_chr05	8222906	GG	AA	1946843409
SNP_P4_70080_8222914	NC_021164.1	Ca_kabuli_chr05	8222914	AA	GG	1946843411
SNP_P4_70082_8231875	NC_021164.1	Ca_kabuli_chr05	8231875	TT	GG	1946843413
SNP_P4_70083_8231904	NC_021164.1	Ca_kabuli_chr05	8231904	CC	AA	1946843415
SNP_P4_70084_8233337	NC_021164.1	Ca_kabuli_chr05	8233337	TT	CC	1946843418
SNP_P4_70085_8241170	NC_021164.1	Ca_kabuli_chr05	8241170	TT	AA	1946843420
SNP_P4_70086_8241625	NC_021164.1	Ca_kabuli_chr05	8241625	GG	AA	1946843421
SNP_P4_70087_8241683	NC_021164.1	Ca_kabuli_chr05	8241683	CC	TT	1946843423
SNP_P4_70088_8241727	NC_021164.1	Ca_kabuli_chr05	8241727	CC	TT	1946843425
SNP_P4_70090_8241850	NC_021164.1	Ca_kabuli_chr05	8241850	GG	AA	1946843427
SNP_P4_70091_8259061	NC_021164.1	Ca_kabuli_chr05	8259061	CC	AA	1946843429
SNP_P4_70093_8263214	NC_021164.1	Ca_kabuli_chr05	8263214	CC	TT	1946843431
SNP_P4_70094_8263249	NC_021164.1	Ca_kabuli_chr05	8263249	TT	CC	1946843433
SNP_P4_70095_8263304	NC_021164.1	Ca_kabuli_chr05	8263304	AA	GG	1946843435
SNP_P4_70096_8263310	NC_021164.1	Ca_kabuli_chr05	8263310	AA	TT	1946843437
SNP_P4_70097_8263421	NC_021164.1	Ca_kabuli_chr05	8263421	CC	TT	1946843439
SNP_P4_70098_8263447	NC_021164.1	Ca_kabuli_chr05	8263447	AA	TT	1946843441
SNP_P4_70099_8263483	NC_021164.1	Ca_kabuli_chr05	8263483	GG	AA	1946843443
SNP_P4_70100_8263617	NC_021164.1	Ca_kabuli_chr05	8263617	AA	GG	1946843445
SNP_P4_70101_8263624	NC_021164.1	Ca_kabuli_chr05	8263624	TT	GG	1946843447
SNP_P4_70102_8263625	NC_021164.1	Ca_kabuli_chr05	8263625	AA	TT	1946843449
SNP_P4_70103_8263631	NC_021164.1	Ca_kabuli_chr05	8263631	TT	GG	1946843451
SNP_P4_70104_8263633	NC_021164.1	Ca_kabuli_chr05	8263633	CC	AA	1946843453
SNP_P4_70105_8264941	NC_021164.1	Ca_kabuli_chr05	8264941	CC	AA	1946843455
SNP_P4_70106_8264942	NC_021164.1	Ca_kabuli_chr05	8264942	GG	AA	1946843457
SNP_P4_70107_8265721	NC_021164.1	Ca_kabuli_chr05	8265721	AA	CC	1946843459
SNP_P4_70108_8272853	NC_021164.1	Ca_kabuli_chr05	8272853	AA	GG	1946843461
SNP_P4_70109_8274839	NC_021164.1	Ca_kabuli_chr05	8274839	GG	AA	1946843463
SNP_P4_70110_8278870	NC_021164.1	Ca_kabuli_chr05	8278870	TT	CC	1946843465
SNP_P4_70111_8278876	NC_021164.1	Ca_kabuli_chr05	8278876	CC	TT	1946843467
SNP_P4_70112_8281099	NC_021164.1	Ca_kabuli_chr05	8281099	CC	TT	1946843469
SNP_P4_70113_8281390	NC_021164.1	Ca_kabuli_chr05	8281390	CC	TT	1946843471
SNP_P4_70114_8284074	NC_021164.1	Ca_kabuli_chr05	8284074	TT	CC	1946843473
SNP_P4_70115_8284168	NC_021164.1	Ca_kabuli_chr05	8284168	AA	CC	1946843475
SNP_P4_70116_8293302	NC_021164.1	Ca_kabuli_chr05	8293302	TT	CC	1946843477
SNP_P4_70117_8293325	NC_021164.1	Ca_kabuli_chr05	8293325	TT	AA	1946843479
SNP_P4_70118_8293354	NC_021164.1	Ca_kabuli_chr05	8293354	TT	AA	1946843481
SNP_P4_70119_8293355	NC_021164.1	Ca_kabuli_chr05	8293355	TT	CC	1946843483
SNP_P4_70120_8293444	NC_021164.1	Ca_kabuli_chr05	8293444	CC	TT	1946843485

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_70122_8293510	NC_021164.1	Ca_kabuli_chr05	8293510	CC	TT	1946843489
SNP_P4_70123_8293519	NC_021164.1	Ca_kabuli_chr05	8293519	TT	AA	1946843491
SNP_P4_70124_8293520	NC_021164.1	Ca_kabuli_chr05	8293520	AA	GG	1946843493
SNP_P4_70125_8293559	NC_021164.1	Ca_kabuli_chr05	8293559	GG	AA	1946843495
SNP_P4_70126_8293572	NC_021164.1	Ca_kabuli_chr05	8293572	GG	AA	1946843497
SNP_P4_70127_8309158	NC_021164.1	Ca_kabuli_chr05	8309158	GG	AA	1946843499
SNP_P4_70128_8309180	NC_021164.1	Ca_kabuli_chr05	8309180	TT	GG	1946843501
SNP_P4_70130_8314228	NC_021164.1	Ca_kabuli_chr05	8314228	AA	GG	1946843503
SNP_P4_70131_8314239	NC_021164.1	Ca_kabuli_chr05	8314239	GG	AA	1946843505
SNP_P4_70133_8314353	NC_021164.1	Ca_kabuli_chr05	8314353	CC	TT	1946843507
SNP_P4_70134_8314359	NC_021164.1	Ca_kabuli_chr05	8314359	TT	CC	1946843509
SNP_P4_70135_8314368	NC_021164.1	Ca_kabuli_chr05	8314368	CC	GG	1946843511
SNP_P4_70136_8314395	NC_021164.1	Ca_kabuli_chr05	8314395	CC	TT	1946843513
SNP_P4_70137_8314448	NC_021164.1	Ca_kabuli_chr05	8314448	TT	CC	1946843515
SNP_P4_70138_8314475	NC_021164.1	Ca_kabuli_chr05	8314475	AA	GG	1946843517
SNP_P4_70139_8342054	NC_021164.1	Ca_kabuli_chr05	8342054	GG	CC	1946843519
SNP_P4_70141_8346490	NC_021164.1	Ca_kabuli_chr05	8346490	TT	GG	1946843520
SNP_P4_70142_8346564	NC_021164.1	Ca_kabuli_chr05	8346564	TT	CC	1946843522
SNP_P4_70143_8346573	NC_021164.1	Ca_kabuli_chr05	8346573	TT	AA	1946843524
SNP_P4_70144_8346584	NC_021164.1	Ca_kabuli_chr05	8346584	TT	CC	1946843526
SNP_P4_70145_8346607	NC_021164.1	Ca_kabuli_chr05	8346607	AA	GG	1946843528
SNP_P4_70146_8361410	NC_021164.1	Ca_kabuli_chr05	8361410	TT	CC	1946843530
SNP_P4_70147_8361879	NC_021164.1	Ca_kabuli_chr05	8361879	CC	TT	1946843532
SNP_P4_70148_8361910	NC_021164.1	Ca_kabuli_chr05	8361910	CC	TT	1946843534
SNP_P4_70149_8361985	NC_021164.1	Ca_kabuli_chr05	8361985	AA	TT	1946843536
SNP_P4_70150_8362605	NC_021164.1	Ca_kabuli_chr05	8362605	CC	AA	1946843538
SNP_P4_70151_8373567	NC_021164.1	Ca_kabuli_chr05	8373567	CC	TT	1946843540
SNP_P4_70152_8387088	NC_021164.1	Ca_kabuli_chr05	8387088	GG	AA	1946843542
SNP_P4_70153_8387195	NC_021164.1	Ca_kabuli_chr05	8387195	TT	GG	1946843544
SNP_P4_70154_8410498	NC_021164.1	Ca_kabuli_chr05	8410498	TT	CC	1946843546
SNP_P4_70155_8410905	NC_021164.1	Ca_kabuli_chr05	8410905	AA	CC	1946843548
SNP_P4_70156_8412370	NC_021164.1	Ca_kabuli_chr05	8412370	AA	CC	1946843550
SNP_P4_70157_8412373	NC_021164.1	Ca_kabuli_chr05	8412373	AA	CC	1946843552
SNP_P4_70158_8412415	NC_021164.1	Ca_kabuli_chr05	8412415	GG	TT	1946843554
SNP_P4_70159_8413204	NC_021164.1	Ca_kabuli_chr05	8413204	AA	TT	1946843556
SNP_P4_70160_8413487	NC_021164.1	Ca_kabuli_chr05	8413487	AA	GG	1946843558
SNP_P4_70161_8413754	NC_021164.1	Ca_kabuli_chr05	8413754	CC	TT	1946843560
SNP_P4_70162_8413758	NC_021164.1	Ca_kabuli_chr05	8413758	GG	AA	1946843562
SNP_P4_70163_8473090	NC_021164.1	Ca_kabuli_chr05	8473090	TT	AA	1946843564
SNP_P4_70164_8478056	NC_021164.1	Ca_kabuli_chr05	8478056	GG	AA	1946843566
SNP_P4_70165_8480965	NC_021164.1	Ca_kabuli_chr05	8480965	TT	CC	1946843568

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_70167_8483283	NC_021164.1	Ca_kabuli_chr05	8483283	CC	AA	1946843572
SNP_P4_70168_8485517	NC_021164.1	Ca_kabuli_chr05	8485517	CC	AA	1946843574
SNP_P4_70169_8485640	NC_021164.1	Ca_kabuli_chr05	8485640	AA	GG	1946843576
SNP_P4_70170_8485665	NC_021164.1	Ca_kabuli_chr05	8485665	GG	AA	1946843578
SNP_P4_70171_8485797	NC_021164.1	Ca_kabuli_chr05	8485797	GG	CC	1946843580
SNP_P4_70172_8485909	NC_021164.1	Ca_kabuli_chr05	8485909	AA	GG	1946843582
SNP_P4_70173_8485920	NC_021164.1	Ca_kabuli_chr05	8485920	CC	TT	1946843584
SNP_P4_70174_8485926	NC_021164.1	Ca_kabuli_chr05	8485926	CC	GG	1946843586
SNP_P4_70175_8485928	NC_021164.1	Ca_kabuli_chr05	8485928	CC	TT	1946843588
SNP_P4_70176_8485992	NC_021164.1	Ca_kabuli_chr05	8485992	AA	GG	1946843590
SNP_P4_70177_8486002	NC_021164.1	Ca_kabuli_chr05	8486002	GG	AA	1946843592
SNP_P4_70178_8496235	NC_021164.1	Ca_kabuli_chr05	8496235	AA	CC	1946843594
SNP_P4_70179_8500310	NC_021164.1	Ca_kabuli_chr05	8500310	GG	AA	1946843596
SNP_P4_70180_8500624	NC_021164.1	Ca_kabuli_chr05	8500624	TT	AA	1946843598
SNP_P4_70181_8512603	NC_021164.1	Ca_kabuli_chr05	8512603	AA	GG	1946843600
SNP_P4_70182_8512612	NC_021164.1	Ca_kabuli_chr05	8512612	GG	AA	1946843602
SNP_P4_70183_8531185	NC_021164.1	Ca_kabuli_chr05	8531185	TT	AA	1946843604
SNP_P4_70184_8536194	NC_021164.1	Ca_kabuli_chr05	8536194	GG	AA	1946843606
SNP_P4_70185_8559185	NC_021164.1	Ca_kabuli_chr05	8559185	AA	GG	1946843608
SNP_P4_70186_8568156	NC_021164.1	Ca_kabuli_chr05	8568156	AA	GG	1946843610
SNP_P4_70187_8582521	NC_021164.1	Ca_kabuli_chr05	8582521	TT	GG	1946843612
SNP_P4_70188_8582522	NC_021164.1	Ca_kabuli_chr05	8582522	TT	GG	1946843614
SNP_P4_70190_8599204	NC_021164.1	Ca_kabuli_chr05	8599204	GG	AA	1946843616
SNP_P4_70192_8741740	NC_021164.1	Ca_kabuli_chr05	8741740	AA	GG	1946843618
SNP_P4_70194_8764413	NC_021164.1	Ca_kabuli_chr05	8764413	GG	AA	1946843620
SNP_P4_70195_8766079	NC_021164.1	Ca_kabuli_chr05	8766079	AA	TT	1946843622
SNP_P4_70196_8766087	NC_021164.1	Ca_kabuli_chr05	8766087	TT	GG	1946843624
SNP_P4_70197_8766117	NC_021164.1	Ca_kabuli_chr05	8766117	CC	TT	1946843626
SNP_P4_70198_8766121	NC_021164.1	Ca_kabuli_chr05	8766121	TT	AA	1946843628
SNP_P4_70199_8766132	NC_021164.1	Ca_kabuli_chr05	8766132	CC	TT	1946843630
SNP_P4_70201_8805677	NC_021164.1	Ca_kabuli_chr05	8805677	GG	AA	1946843632
SNP_P4_70202_8805954	NC_021164.1	Ca_kabuli_chr05	8805954	AA	CC	1946843634
SNP_P4_70203_8805961	NC_021164.1	Ca_kabuli_chr05	8805961	AA	CC	1946843636
SNP_P4_70204_8805981	NC_021164.1	Ca_kabuli_chr05	8805981	CC	TT	1946843638
SNP_P4_70205_8805990	NC_021164.1	Ca_kabuli_chr05	8805990	GG	AA	1946843640
SNP_P4_70206_8806001	NC_021164.1	Ca_kabuli_chr05	8806001	GG	AA	1946843642
SNP_P4_70207_8806010	NC_021164.1	Ca_kabuli_chr05	8806010	GG	AA	1946843644
SNP_P4_70208_8806027	NC_021164.1	Ca_kabuli_chr05	8806027	GG	AA	1946843646
SNP_P4_70209_8806056	NC_021164.1	Ca_kabuli_chr05	8806056	TT	CC	1946843648
SNP_P4_70210_8807187	NC_021164.1	Ca_kabuli_chr05	8807187	GG	AA	1946843650
SNP_P4_70211_8807329	NC_021164.1	Ca_kabuli_chr05	8807329	TT	CC	1946843652

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_70215_8836305	NC_021164.1	Ca_kabuli_chr05	8836305	CC	AA	1946843658
SNP_P4_70216_8850814	NC_021164.1	Ca_kabuli_chr05	8850814	AA	GG	1946843660
SNP_P4_70217_8853599	NC_021164.1	Ca_kabuli_chr05	8853599	AA	GG	1946843662
SNP_P4_70218_8949604	NC_021164.1	Ca_kabuli_chr05	8949604	TT	AA	1946843664
SNP_P4_70220_8975066	NC_021164.1	Ca_kabuli_chr05	8975066	CC	AA	1946843666
SNP_P4_70221_8975073	NC_021164.1	Ca_kabuli_chr05	8975073	AA	GG	1946843668
SNP_P4_70222_8975162	NC_021164.1	Ca_kabuli_chr05	8975162	GG	AA	1946843670
SNP_P4_70224_8998746	NC_021164.1	Ca_kabuli_chr05	8998746	CC	TT	1946843672
SNP_P4_70225_8998862	NC_021164.1	Ca_kabuli_chr05	8998862	TT	CC	1946843674
SNP_P4_70226_8998951	NC_021164.1	Ca_kabuli_chr05	8998951	AA	GG	1946843676
SNP_P4_70228_8999002	NC_021164.1	Ca_kabuli_chr05	8999002	TT	AA	1946843678
SNP_P4_70229_8999030	NC_021164.1	Ca_kabuli_chr05	8999030	TT	CC	1946843680
SNP_P4_70230_8999459	NC_021164.1	Ca_kabuli_chr05	8999459	CC	GG	1946843682
SNP_P4_70231_8999610	NC_021164.1	Ca_kabuli_chr05	8999610	CC	TT	1946843684
SNP_P4_70232_8999612	NC_021164.1	Ca_kabuli_chr05	8999612	CC	AA	1946843686
SNP_P4_70233_8999629	NC_021164.1	Ca_kabuli_chr05	8999629	CC	AA	1946843688
SNP_P4_70234_8999636	NC_021164.1	Ca_kabuli_chr05	8999636	GG	AA	1946843690
SNP_P4_70236_8999842	NC_021164.1	Ca_kabuli_chr05	8999842	AA	GG	1946843692
SNP_P4_70237_8999930	NC_021164.1	Ca_kabuli_chr05	8999930	GG	AA	1946843694
SNP_P4_70238_8999946	NC_021164.1	Ca_kabuli_chr05	8999946	GG	AA	1946843696
SNP_P4_70239_8999967	NC_021164.1	Ca_kabuli_chr05	8999967	GG	AA	1946843698
SNP_P4_70240_8999969	NC_021164.1	Ca_kabuli_chr05	8999969	CC	AA	1946843699
SNP_P4_70241_9000017	NC_021164.1	Ca_kabuli_chr05	9000017	AA	GG	1946843701
SNP_P4_70242_9000338	NC_021164.1	Ca_kabuli_chr05	9000338	CC	TT	1946843703
SNP_P4_70243_9039300	NC_021164.1	Ca_kabuli_chr05	9039300	AA	GG	1946843705
SNP_P4_70244_9057350	NC_021164.1	Ca_kabuli_chr05	9057350	GG	AA	1946843707
SNP_P4_70245_9091617	NC_021164.1	Ca_kabuli_chr05	9091617	AA	GG	1946843709
SNP_P4_70246_9091691	NC_021164.1	Ca_kabuli_chr05	9091691	CC	TT	1946843711
SNP_P4_70247_9091727	NC_021164.1	Ca_kabuli_chr05	9091727	AA	GG	1946843713
SNP_P4_70248_9091915	NC_021164.1	Ca_kabuli_chr05	9091915	AA	GG	1946843715
SNP_P4_70249_9092251	NC_021164.1	Ca_kabuli_chr05	9092251	AA	TT	1946843717
SNP_P4_70250_9092255	NC_021164.1	Ca_kabuli_chr05	9092255	AA	GG	1946843719
SNP_P4_70251_9092262	NC_021164.1	Ca_kabuli_chr05	9092262	CC	GG	1946843721
SNP_P4_70252_9092324	NC_021164.1	Ca_kabuli_chr05	9092324	CC	GG	1946843723
SNP_P4_70253_9092328	NC_021164.1	Ca_kabuli_chr05	9092328	TT	CC	1946843725
SNP_P4_70255_9175008	NC_021164.1	Ca_kabuli_chr05	9175008	CC	TT	1946843727
SNP_P4_70256_9187776	NC_021164.1	Ca_kabuli_chr05	9187776	AA	GG	1946843729
SNP_P4_70257_9201874	NC_021164.1	Ca_kabuli_chr05	9201874	TT	AA	1946843731
SNP_P4_70258_9201897	NC_021164.1	Ca_kabuli_chr05	9201897	TT	CC	1946843733
SNP_P4_70259_9202241	NC_021164.1	Ca_kabuli_chr05	9202241	AA	GG	1946843735

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_70261_9202647	NC_021164.1	Ca_kabuli_chr05	9202647	CC	TT	1946843739
SNP_P4_70262_9203027	NC_021164.1	Ca_kabuli_chr05	9203027	GG	AA	1946843741
SNP_P4_70263_9212180	NC_021164.1	Ca_kabuli_chr05	9212180	GG	AA	1946843743
SNP_P4_70264_9249182	NC_021164.1	Ca_kabuli_chr05	9249182	CC	TT	1946843745
SNP_P4_70266_9256207	NC_021164.1	Ca_kabuli_chr05	9256207	AA	TT	1946843747
SNP_P4_70269_9277895	NC_021164.1	Ca_kabuli_chr05	9277895	TT	GG	1946843749
SNP_P4_70270_9294143	NC_021164.1	Ca_kabuli_chr05	9294143	GG	AA	1946843751
SNP_P4_70271_9294161	NC_021164.1	Ca_kabuli_chr05	9294161	TT	GG	1946843753
SNP_P4_70272_9304770	NC_021164.1	Ca_kabuli_chr05	9304770	AA	GG	1946843755
SNP_P4_70273_9340234	NC_021164.1	Ca_kabuli_chr05	9340234	TT	AA	1946843757
SNP_P4_70274_9345768	NC_021164.1	Ca_kabuli_chr05	9345768	TT	CC	1946843759
SNP_P4_70276_9361169	NC_021164.1	Ca_kabuli_chr05	9361169	AA	GG	1946843761
SNP_P4_70277_9365844	NC_021164.1	Ca_kabuli_chr05	9365844	AA	GG	1946843763
SNP_P4_70278_9365865	NC_021164.1	Ca_kabuli_chr05	9365865	GG	CC	1946843765
SNP_P4_70279_9365889	NC_021164.1	Ca_kabuli_chr05	9365889	TT	CC	1946843767
SNP_P4_70280_9365934	NC_021164.1	Ca_kabuli_chr05	9365934	GG	AA	1946843769
SNP_P4_70281_9366003	NC_021164.1	Ca_kabuli_chr05	9366003	GG	AA	1946843771
SNP_P4_70282_9366053	NC_021164.1	Ca_kabuli_chr05	9366053	AA	TT	1946843773
SNP_P4_70283_9366183	NC_021164.1	Ca_kabuli_chr05	9366183	AA	TT	1946843775
SNP_P4_70284_9366210	NC_021164.1	Ca_kabuli_chr05	9366210	TT	AA	1946843777
SNP_P4_70285_9366262	NC_021164.1	Ca_kabuli_chr05	9366262	AA	GG	1946843778
SNP_P4_70286_9366291	NC_021164.1	Ca_kabuli_chr05	9366291	TT	CC	1946843780
SNP_P4_70287_9366330	NC_021164.1	Ca_kabuli_chr05	9366330	TT	AA	1946843782
SNP_P4_70288_9366401	NC_021164.1	Ca_kabuli_chr05	9366401	TT	CC	1946843784
SNP_P4_70289_9368728	NC_021164.1	Ca_kabuli_chr05	9368728	AA	GG	1946843786
SNP_P4_70290_9374176	NC_021164.1	Ca_kabuli_chr05	9374176	AA	GG	1946843788
SNP_P4_70291_9374297	NC_021164.1	Ca_kabuli_chr05	9374297	TT	CC	1946843790
SNP_P4_70292_9374450	NC_021164.1	Ca_kabuli_chr05	9374450	AA	GG	1946843792
SNP_P4_70293_9374476	NC_021164.1	Ca_kabuli_chr05	9374476	GG	AA	1946843794
SNP_P4_70294_9374487	NC_021164.1	Ca_kabuli_chr05	9374487	TT	GG	1946843796
SNP_P4_70295_9374500	NC_021164.1	Ca_kabuli_chr05	9374500	TT	AA	1946843798
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SNP_P4_70297_9382674	NC_021164.1	Ca_kabuli_chr05	9382674	CC	TT	1946843802
SNP_P4_70298_9382828	NC_021164.1	Ca_kabuli_chr05	9382828	CC	TT	1946843804
SNP_P4_70299_9384808	NC_021164.1	Ca_kabuli_chr05	9384808	AA	CC	1946843806
SNP_P4_70302_9384913	NC_021164.1	Ca_kabuli_chr05	9384913	TT	AA	1946843808
SNP_P4_70303_9393445	NC_021164.1	Ca_kabuli_chr05	9393445	AA	TT	1946843810
SNP_P4_70304_9393453	NC_021164.1	Ca_kabuli_chr05	9393453	TT	CC	1946843812
SNP_P4_70305_9393464	NC_021164.1	Ca_kabuli_chr05	9393464	TT	GG	1946843814
SNP_P4_70306_9393472	NC_021164.1	Ca_kabuli_chr05	9393472	TT	CC	1946843816
SNP_P4_70307_9403081	NC_021164.1	Ca_kabuli_chr05	9403081	AA	GG	1946843818

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_70309_9403166	NC_021164.1	Ca_kabuli_chr05	9403166	TT	AA	1946843822
SNP_P4_70310_9403211	NC_021164.1	Ca_kabuli_chr05	9403211	GG	AA	1946843824
SNP_P4_70311_9403389	NC_021164.1	Ca_kabuli_chr05	9403389	TT	CC	1946843826
SNP_P4_70312_9403409	NC_021164.1	Ca_kabuli_chr05	9403409	AA	TT	1946843828
SNP_P4_70314_9403491	NC_021164.1	Ca_kabuli_chr05	9403491	TT	CC	1946843830
SNP_P4_70315_9403544	NC_021164.1	Ca_kabuli_chr05	9403544	AA	GG	1946843832
SNP_P4_70316_9403605	NC_021164.1	Ca_kabuli_chr05	9403605	AA	CC	1946843834
SNP_P4_70317_9403641	NC_021164.1	Ca_kabuli_chr05	9403641	CC	AA	1946843836
SNP_P4_70318_9403713	NC_021164.1	Ca_kabuli_chr05	9403713	CC	GG	1946843838
SNP_P4_70319_9403722	NC_021164.1	Ca_kabuli_chr05	9403722	GG	AA	1946843840
SNP_P4_70320_9433577	NC_021164.1	Ca_kabuli_chr05	9433577	TT	CC	1946843842
SNP_P4_70321_9433587	NC_021164.1	Ca_kabuli_chr05	9433587	TT	GG	1946843844
SNP_P4_70322_9433683	NC_021164.1	Ca_kabuli_chr05	9433683	AA	GG	1946843846
SNP_P4_70323_9433699	NC_021164.1	Ca_kabuli_chr05	9433699	AA	CC	1946843848
SNP_P4_70324_9440091	NC_021164.1	Ca_kabuli_chr05	9440091	TT	CC	1946843850
SNP_P4_70325_9440120	NC_021164.1	Ca_kabuli_chr05	9440120	AA	GG	1946843852
SNP_P4_70328_9441794	NC_021164.1	Ca_kabuli_chr05	9441794	TT	CC	1946843854
SNP_P4_70329_9467206	NC_021164.1	Ca_kabuli_chr05	9467206	GG	TT	1946843856
SNP_P4_70330_9467215	NC_021164.1	Ca_kabuli_chr05	9467215	GG	AA	1946843858
SNP_P4_70331_9467217	NC_021164.1	Ca_kabuli_chr05	9467217	GG	TT	1946843860
SNP_P4_70332_9467518	NC_021164.1	Ca_kabuli_chr05	9467518	TT	CC	1946843862
SNP_P4_70333_9467705	NC_021164.1	Ca_kabuli_chr05	9467705	AA	GG	1946843864
SNP_P4_70334_9467778	NC_021164.1	Ca_kabuli_chr05	9467778	TT	AA	1946843866
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SNP_P4_70337_9467998	NC_021164.1	Ca_kabuli_chr05	9467998	AA	GG	1946843873
SNP_P4_70338_9468232	NC_021164.1	Ca_kabuli_chr05	9468232	TT	CC	1946843875
SNP_P4_70339_9468243	NC_021164.1	Ca_kabuli_chr05	9468243	CC	TT	1946843877
SNP_P4_70340_9507378	NC_021164.1	Ca_kabuli_chr05	9507378	AA	GG	1946843880
SNP_P4_70341_9540558	NC_021164.1	Ca_kabuli_chr05	9540558	CC	AA	1946843882
SNP_P4_70342_9544133	NC_021164.1	Ca_kabuli_chr05	9544133	GG	TT	1946843884
SNP_P4_70343_9553069	NC_021164.1	Ca_kabuli_chr05	9553069	GG	TT	1946843886
SNP_P4_70344_9583818	NC_021164.1	Ca_kabuli_chr05	9583818	TT	CC	1946843888
SNP_P4_70346_9625042	NC_021164.1	Ca_kabuli_chr05	9625042	CC	TT	1946843890
SNP_P4_70347_9625659	NC_021164.1	Ca_kabuli_chr05	9625659	GG	CC	1946843892
SNP_P4_70348_9625705	NC_021164.1	Ca_kabuli_chr05	9625705	AA	CC	1946843894
SNP_P4_70349_9625870	NC_021164.1	Ca_kabuli_chr05	9625870	AA	TT	1946843896
SNP_P4_70350_9625871	NC_021164.1	Ca_kabuli_chr05	9625871	TT	AA	1946843898
SNP_P4_70351_9625872	NC_021164.1	Ca_kabuli_chr05	9625872	AA	CC	1946843900
SNP_P4_70352_9625875	NC_021164.1	Ca_kabuli_chr05	9625875	GG	AA	1946843902
SNP_P4_70353_9625887	NC_021164.1	Ca_kabuli_chr05	9625887	AA	GG	1946843904

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_70355_9626230	NC_021164.1	Ca_kabuli_chr05	9626230	CC	AA	1946843908
SNP_P4_70356_9651608	NC_021164.1	Ca_kabuli_chr05	9651608	GG	AA	1946843910
SNP_P4_70357_9683936	NC_021164.1	Ca_kabuli_chr05	9683936	CC	TT	1946843912
SNP_P4_70358_9690372	NC_021164.1	Ca_kabuli_chr05	9690372	TT	GG	1946843914
SNP_P4_70359_9690596	NC_021164.1	Ca_kabuli_chr05	9690596	AA	GG	1946843916
SNP_P4_70360_9690623	NC_021164.1	Ca_kabuli_chr05	9690623	CC	AA	1946843918
SNP_P4_70361_9690625	NC_021164.1	Ca_kabuli_chr05	9690625	TT	CC	1946843920
SNP_P4_70362_9690872	NC_021164.1	Ca_kabuli_chr05	9690872	AA	GG	1946843922
SNP_P4_70363_9692530	NC_021164.1	Ca_kabuli_chr05	9692530	TT	AA	1946843924
SNP_P4_70365_9713854	NC_021164.1	Ca_kabuli_chr05	9713854	CC	TT	1946843926
SNP_P4_70366_9724910	NC_021164.1	Ca_kabuli_chr05	9724910	GG	AA	1946843927
SNP_P4_70367_9732191	NC_021164.1	Ca_kabuli_chr05	9732191	TT	AA	1946843929
SNP_P4_70369_9746188	NC_021164.1	Ca_kabuli_chr05	9746188	AA	GG	1946843931
SNP_P4_70370_9746461	NC_021164.1	Ca_kabuli_chr05	9746461	AA	GG	1946843933
SNP_P4_70371_9746586	NC_021164.1	Ca_kabuli_chr05	9746586	GG	AA	1946843935
SNP_P4_70372_9769988	NC_021164.1	Ca_kabuli_chr05	9769988	TT	AA	1946843937
SNP_P4_70375_9847746	NC_021164.1	Ca_kabuli_chr05	9847746	AA	TT	1946843939
SNP_P4_70377_9898510	NC_021164.1	Ca_kabuli_chr05	9898510	TT	GG	1946843941
SNP_P4_70378_9898514	NC_021164.1	Ca_kabuli_chr05	9898514	GG	AA	1946843943
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SNP_P4_70381_9921411	NC_021164.1	Ca_kabuli_chr05	9921411	TT	CC	1946843949
SNP_P4_70382_9921458	NC_021164.1	Ca_kabuli_chr05	9921458	AA	CC	1946843951
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SNP_P4_70386_9924750	NC_021164.1	Ca_kabuli_chr05	9924750	AA	TT	1946843959
SNP_P4_70387_9936203	NC_021164.1	Ca_kabuli_chr05	9936203	AA	TT	1946843961
SNP_P4_70388_9937412	NC_021164.1	Ca_kabuli_chr05	9937412	AA	GG	1946843963
SNP_P4_70389_9937433	NC_021164.1	Ca_kabuli_chr05	9937433	TT	AA	1946843965
SNP_P4_70390_9937738	NC_021164.1	Ca_kabuli_chr05	9937738	CC	TT	1946843966
SNP_P4_70391_9937779	NC_021164.1	Ca_kabuli_chr05	9937779	GG	AA	1946843968
SNP_P4_70392_9947267	NC_021164.1	Ca_kabuli_chr05	9947267	TT	CC	1946843970
SNP_P4_70393_9947309	NC_021164.1	Ca_kabuli_chr05	9947309	CC	GG	1946843972
SNP_P4_70394_9947644	NC_021164.1	Ca_kabuli_chr05	9947644	AA	GG	1946843974
SNP_P4_70395_9947645	NC_021164.1	Ca_kabuli_chr05	9947645	GG	AA	1946843976
SNP_P4_70396_9968761	NC_021164.1	Ca_kabuli_chr05	9968761	TT	CC	1946843978
SNP_P4_70397_9978491	NC_021164.1	Ca_kabuli_chr05	9978491	TT	CC	1946843979
SNP_P4_70398_10016532	NC_021164.1	Ca_kabuli_chr05	10016532	AA	GG	1946843981
SNP_P4_70399_10021506	NC_021164.1	Ca_kabuli_chr05	10021506	CC	TT	1946843983
SNP_P4_70400_10056571	NC_021164.1	Ca_kabuli_chr05	10056571	TT	AA	1946843985

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_70403_10090081	NC_021164.1	Ca_kabuli_chr05	10090081	AA	GG	1946843987
SNP_P4_70404_10092912	NC_021164.1	Ca_kabuli_chr05	10092912	AA	GG	1946843988
SNP_P4_70405_10111551	NC_021164.1	Ca_kabuli_chr05	10111551	GG	TT	1946843990
SNP_P4_70406_10111993	NC_021164.1	Ca_kabuli_chr05	10111993	TT	CC	1946843992
SNP_P4_70407_10143468	NC_021164.1	Ca_kabuli_chr05	10143468	GG	AA	1946843994
SNP_P4_70409_10191995	NC_021164.1	Ca_kabuli_chr05	10191995	CC	TT	1946843996
SNP_P4_70410_10193740	NC_021164.1	Ca_kabuli_chr05	10193740	AA	GG	1946843998
SNP_P4_70411_10194749	NC_021164.1	Ca_kabuli_chr05	10194749	GG	AA	1946844000
SNP_P4_70412_10213511	NC_021164.1	Ca_kabuli_chr05	10213511	TT	CC	1946844002
SNP_P4_70413_10213519	NC_021164.1	Ca_kabuli_chr05	10213519	CC	TT	1946844004
SNP_P4_70414_10213532	NC_021164.1	Ca_kabuli_chr05	10213532	AA	CC	1946844006
SNP_P4_70416_10220368	NC_021164.1	Ca_kabuli_chr05	10220368	AA	CC	1946844008
SNP_P4_70417_10249954	NC_021164.1	Ca_kabuli_chr05	10249954	TT	AA	1946844010
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SNP_P4_70420_10253892	NC_021164.1	Ca_kabuli_chr05	10253892	AA	GG	1946844016
SNP_P4_70422_10283358	NC_021164.1	Ca_kabuli_chr05	10283358	CC	AA	1946844018
SNP_P4_70423_10287151	NC_021164.1	Ca_kabuli_chr05	10287151	AA	GG	1946844020
SNP_P4_70424_10287153	NC_021164.1	Ca_kabuli_chr05	10287153	AA	GG	1946844022
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SNP_P4_70429_10322794	NC_021164.1	Ca_kabuli_chr05	10322794	TT	AA	1946844028
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SNP_P4_70432_10341859	NC_021164.1	Ca_kabuli_chr05	10341859	TT	AA	1946844034
SNP_P4_70433_10343780	NC_021164.1	Ca_kabuli_chr05	10343780	GG	CC	1946844036
SNP_P4_70434_10348759	NC_021164.1	Ca_kabuli_chr05	10348759	TT	GG	1946844038
SNP_P4_70435_10348765	NC_021164.1	Ca_kabuli_chr05	10348765	CC	TT	1946844040
SNP_P4_70436_10349158	NC_021164.1	Ca_kabuli_chr05	10349158	GG	CC	1946844042
SNP_P4_70437_10349164	NC_021164.1	Ca_kabuli_chr05	10349164	AA	CC	1946844044
SNP_P4_70438_10349191	NC_021164.1	Ca_kabuli_chr05	10349191	AA	GG	1946844046
SNP_P4_70439_10362633	NC_021164.1	Ca_kabuli_chr05	10362633	CC	TT	1946844049
SNP_P4_70440_10362889	NC_021164.1	Ca_kabuli_chr05	10362889	TT	CC	1946844051
SNP_P4_70441_10362983	NC_021164.1	Ca_kabuli_chr05	10362983	GG	AA	1946844053
SNP_P4_70442_10374021	NC_021164.1	Ca_kabuli_chr05	10374021	TT	CC	1946844055
SNP_P4_70443_10376091	NC_021164.1	Ca_kabuli_chr05	10376091	AA	CC	1946844057
SNP_P4_70444_10376120	NC_021164.1	Ca_kabuli_chr05	10376120	TT	CC	1946844059
SNP_P4_70445_10376384	NC_021164.1	Ca_kabuli_chr05	10376384	AA	CC	1946844061
SNP_P4_70446_10418977	NC_021164.1	Ca_kabuli_chr05	10418977	TT	CC	1946844063
SNP_P4_70449_10433830	NC_021164.1	Ca_kabuli_chr05	10433830	GG	AA	1946844065
SNP_P4_70450_10438709	NC_021164.1	Ca_kabuli_chr05	10438709	GG	TT	1946844067

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_70451_10451704	NC_021164.1	Ca_kabuli_chr05	10451704	TT	CC	1946844069
SNP_P4_70452_10475930	NC_021164.1	Ca_kabuli_chr05	10475930	TT	GG	1946844071
SNP_P4_70453_10476333	NC_021164.1	Ca_kabuli_chr05	10476333	CC	TT	1946844073
SNP_P4_70454_10476586	NC_021164.1	Ca_kabuli_chr05	10476586	TT	CC	1946844075
SNP_P4_70455_10481409	NC_021164.1	Ca_kabuli_chr05	10481409	TT	CC	1946844077
SNP_P4_70456_10496251	NC_021164.1	Ca_kabuli_chr05	10496251	AA	GG	1946844079
SNP_P4_70459_10514214	NC_021164.1	Ca_kabuli_chr05	10514214	TT	AA	1946844081
SNP_P4_70460_10514217	NC_021164.1	Ca_kabuli_chr05	10514217	TT	AA	1946844083
SNP_P4_70461_10514445	NC_021164.1	Ca_kabuli_chr05	10514445	GG	AA	1946844085
SNP_P4_70462_10523358	NC_021164.1	Ca_kabuli_chr05	10523358	TT	AA	1946844087
SNP_P4_70463_10526035	NC_021164.1	Ca_kabuli_chr05	10526035	CC	TT	1946844089
SNP_P4_70464_10526133	NC_021164.1	Ca_kabuli_chr05	10526133	CC	AA	1946844091
SNP_P4_70465_10526751	NC_021164.1	Ca_kabuli_chr05	10526751	CC	TT	1946844093
SNP_P4_70466_10545265	NC_021164.1	Ca_kabuli_chr05	10545265	CC	AA	1946844095
SNP_P4_70468_10595352	NC_021164.1	Ca_kabuli_chr05	10595352	AA	TT	1946844097
SNP_P4_70469_10600691	NC_021164.1	Ca_kabuli_chr05	10600691	AA	GG	1946844099
SNP_P4_70470_10604599	NC_021164.1	Ca_kabuli_chr05	10604599	TT	AA	1946844101
SNP_P4_70471_10604953	NC_021164.1	Ca_kabuli_chr05	10604953	AA	GG	1946844103
SNP_P4_70472_10616900	NC_021164.1	Ca_kabuli_chr05	10616900	GG	AA	1946844105
SNP_P4_70473_10616912	NC_021164.1	Ca_kabuli_chr05	10616912	AA	TT	1946844107
SNP_P4_70474_10617038	NC_021164.1	Ca_kabuli_chr05	10617038	TT	CC	1946844109
SNP_P4_70475_10617116	NC_021164.1	Ca_kabuli_chr05	10617116	AA	GG	1946844111
SNP_P4_70476_10617405	NC_021164.1	Ca_kabuli_chr05	10617405	GG	AA	1946844113
SNP_P4_70477_10617417	NC_021164.1	Ca_kabuli_chr05	10617417	AA	GG	1946844115
SNP_P4_70478_10617659	NC_021164.1	Ca_kabuli_chr05	10617659	GG	AA	1946844117
SNP_P4_70479_10617760	NC_021164.1	Ca_kabuli_chr05	10617760	GG	AA	1946844119
SNP_P4_70480_10623982	NC_021164.1	Ca_kabuli_chr05	10623982	TT	AA	1946844121
SNP_P4_70481_10626737	NC_021164.1	Ca_kabuli_chr05	10626737	CC	TT	1946844123
SNP_P4_70482_10634092	NC_021164.1	Ca_kabuli_chr05	10634092	CC	TT	1946844125
SNP_P4_70483_10634191	NC_021164.1	Ca_kabuli_chr05	10634191	CC	TT	1946844127
SNP_P4_70485_10634346	NC_021164.1	Ca_kabuli_chr05	10634346	TT	CC	1946844129
SNP_P4_70486_10634448	NC_021164.1	Ca_kabuli_chr05	10634448	GG	TT	1946844131
SNP_P4_70487_10634480	NC_021164.1	Ca_kabuli_chr05	10634480	AA	TT	1946844133
SNP_P4_70488_10634489	NC_021164.1	Ca_kabuli_chr05	10634489	AA	GG	1946844135
SNP_P4_70489_10646516	NC_021164.1	Ca_kabuli_chr05	10646516	AA	GG	1946844137
SNP_P4_70490_10646750	NC_021164.1	Ca_kabuli_chr05	10646750	CC	AA	1946844139
SNP_P4_70491_10646908	NC_021164.1	Ca_kabuli_chr05	10646908	CC	TT	1946844141
SNP_P4_70492_10646944	NC_021164.1	Ca_kabuli_chr05	10646944	TT	AA	1946844143
SNP_P4_70493_10646951	NC_021164.1	Ca_kabuli_chr05	10646951	TT	GG	1946844144
SNP_P4_70494_10650234	NC_021164.1	Ca_kabuli_chr05	10650234	GG	CC	1946844146
SNP_P4_70495_10650278	NC_021164.1	Ca_kabuli_chr05	10650278	TT	CC	1946844148
SNP_P4_70496_10650280	NC_021164.1	Ca_kabuli_chr05	10650280	CC	TT	1946844150

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_70498_10650532	NC_021164.1	Ca_kabuli_chr05	10650532	TT	CC	1946844154
SNP_P4_70499_10650586	NC_021164.1	Ca_kabuli_chr05	10650586	AA	GG	1946844156
SNP_P4_70500_10667937	NC_021164.1	Ca_kabuli_chr05	10667937	TT	CC	1946844158
SNP_P4_70501_10667964	NC_021164.1	Ca_kabuli_chr05	10667964	GG	AA	1946844160
SNP_P4_70502_10668048	NC_021164.1	Ca_kabuli_chr05	10668048	GG	TT	1946844162
SNP_P4_70504_10671952	NC_021164.1	Ca_kabuli_chr05	10671952	CC	AA	1946844164
SNP_P4_70505_10671984	NC_021164.1	Ca_kabuli_chr05	10671984	TT	CC	1946844166
SNP_P4_70506_10672038	NC_021164.1	Ca_kabuli_chr05	10672038	CC	TT	1946844168
SNP_P4_70507_10672091	NC_021164.1	Ca_kabuli_chr05	10672091	AA	GG	1946844170
SNP_P4_70508_10672102	NC_021164.1	Ca_kabuli_chr05	10672102	CC	TT	1946844172
SNP_P4_70509_10672108	NC_021164.1	Ca_kabuli_chr05	10672108	TT	CC	1946844174
SNP_P4_70510_10672242	NC_021164.1	Ca_kabuli_chr05	10672242	GG	TT	1946844176
SNP_P4_70511_10672246	NC_021164.1	Ca_kabuli_chr05	10672246	CC	AA	1946844178
SNP_P4_70512_10672313	NC_021164.1	Ca_kabuli_chr05	10672313	AA	GG	1946844180
SNP_P4_70513_10672325	NC_021164.1	Ca_kabuli_chr05	10672325	CC	TT	1946844182
SNP_P4_70514_10672377	NC_021164.1	Ca_kabuli_chr05	10672377	GG	CC	1946844184
SNP_P4_70515_10672423	NC_021164.1	Ca_kabuli_chr05	10672423	GG	TT	1946844186
SNP_P4_70516_10672510	NC_021164.1	Ca_kabuli_chr05	10672510	CC	TT	1946844188
SNP_P4_70517_10672635	NC_021164.1	Ca_kabuli_chr05	10672635	GG	AA	1946844190
SNP_P4_70518_10672825	NC_021164.1	Ca_kabuli_chr05	10672825	CC	TT	1946844192
SNP_P4_70519_10672969	NC_021164.1	Ca_kabuli_chr05	10672969	TT	CC	1946844194
SNP_P4_70520_10673009	NC_021164.1	Ca_kabuli_chr05	10673009	TT	CC	1946844196
SNP_P4_70521_10673179	NC_021164.1	Ca_kabuli_chr05	10673179	GG	AA	1946844198
SNP_P4_70522_10673403	NC_021164.1	Ca_kabuli_chr05	10673403	CC	TT	1946844200
SNP_P4_70523_10673605	NC_021164.1	Ca_kabuli_chr05	10673605	TT	CC	1946844202
SNP_P4_70524_10673819	NC_021164.1	Ca_kabuli_chr05	10673819	GG	TT	1946844204
SNP_P4_70525_10673820	NC_021164.1	Ca_kabuli_chr05	10673820	TT	GG	1946844206
SNP_P4_70526_10673821	NC_021164.1	Ca_kabuli_chr05	10673821	GG	TT	1946844208
SNP_P4_70527_10673831	NC_021164.1	Ca_kabuli_chr05	10673831	GG	TT	1946844210
SNP_P4_70528_10673882	NC_021164.1	Ca_kabuli_chr05	10673882	TT	AA	1946844212
SNP_P4_70529_10673913	NC_021164.1	Ca_kabuli_chr05	10673913	AA	TT	1946844214
SNP_P4_70530_10674136	NC_021164.1	Ca_kabuli_chr05	10674136	GG	TT	1946844216
SNP_P4_70531_10674158	NC_021164.1	Ca_kabuli_chr05	10674158	GG	AA	1946844218
SNP_P4_70532_10674211	NC_021164.1	Ca_kabuli_chr05	10674211	CC	TT	1946844220
SNP_P4_70533_10674506	NC_021164.1	Ca_kabuli_chr05	10674506	GG	TT	1946844222
SNP_P4_70534_10674546	NC_021164.1	Ca_kabuli_chr05	10674546	AA	GG	1946844224
SNP_P4_70535_10674718	NC_021164.1	Ca_kabuli_chr05	10674718	AA	GG	1946844226
SNP_P4_70536_10674808	NC_021164.1	Ca_kabuli_chr05	10674808	CC	AA	1946844228
SNP_P4_70537_10676063	NC_021164.1	Ca_kabuli_chr05	10676063	GG	CC	1946844230
SNP_P4_70538_10676093	NC_021164.1	Ca_kabuli_chr05	10676093	CC	TT	1946844232
SNP_P4_70539_10676159	NC_021164.1	Ca_kabuli_chr05	10676159	GG	AA	1946844234

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_70541_10676416	NC_021164.1	Ca_kabuli_chr05	10676416	GG	AA	1946844238
SNP_P4_70542_10676548	NC_021164.1	Ca_kabuli_chr05	10676548	AA	TT	1946844240
SNP_P4_70543_10676603	NC_021164.1	Ca_kabuli_chr05	10676603	TT	CC	1946844242
SNP_P4_70544_10676608	NC_021164.1	Ca_kabuli_chr05	10676608	AA	GG	1946844245
SNP_P4_70545_10676761	NC_021164.1	Ca_kabuli_chr05	10676761	TT	GG	1946844247
SNP_P4_70546_10677705	NC_021164.1	Ca_kabuli_chr05	10677705	TT	CC	1946844249
SNP_P4_70547_10677868	NC_021164.1	Ca_kabuli_chr05	10677868	GG	AA	1946844251
SNP_P4_70548_10678076	NC_021164.1	Ca_kabuli_chr05	10678076	GG	CC	1946844253
SNP_P4_70549_10678201	NC_021164.1	Ca_kabuli_chr05	10678201	CC	TT	1946844255
SNP_P4_70550_10678206	NC_021164.1	Ca_kabuli_chr05	10678206	AA	GG	1946844257
SNP_P4_70551_10678303	NC_021164.1	Ca_kabuli_chr05	10678303	CC	TT	1946844259
SNP_P4_70552_10678305	NC_021164.1	Ca_kabuli_chr05	10678305	GG	AA	1946844261
SNP_P4_70553_10678331	NC_021164.1	Ca_kabuli_chr05	10678331	GG	AA	1946844263
SNP_P4_70554_10678351	NC_021164.1	Ca_kabuli_chr05	10678351	TT	GG	1946844265
SNP_P4_70555_10679836	NC_021164.1	Ca_kabuli_chr05	10679836	CC	TT	1946844267
SNP_P4_70556_10679843	NC_021164.1	Ca_kabuli_chr05	10679843	AA	CC	1946844269
SNP_P4_70557_10679884	NC_021164.1	Ca_kabuli_chr05	10679884	TT	AA	1946844271
SNP_P4_70558_10679910	NC_021164.1	Ca_kabuli_chr05	10679910	CC	TT	1946844273
SNP_P4_70559_10679919	NC_021164.1	Ca_kabuli_chr05	10679919	TT	CC	1946844275
SNP_P4_70560_10679957	NC_021164.1	Ca_kabuli_chr05	10679957	CC	TT	1946844277
SNP_P4_70561_10679963	NC_021164.1	Ca_kabuli_chr05	10679963	CC	TT	1946844279
SNP_P4_70562_10679967	NC_021164.1	Ca_kabuli_chr05	10679967	TT	GG	1946844281
SNP_P4_70563_10679989	NC_021164.1	Ca_kabuli_chr05	10679989	GG	CC	1946844283
SNP_P4_70564_10679991	NC_021164.1	Ca_kabuli_chr05	10679991	CC	AA	1946844285
SNP_P4_70565_10680016	NC_021164.1	Ca_kabuli_chr05	10680016	CC	TT	1946844287
SNP_P4_70566_10680056	NC_021164.1	Ca_kabuli_chr05	10680056	GG	AA	1946844289
SNP_P4_70567_10680063	NC_021164.1	Ca_kabuli_chr05	10680063	GG	TT	1946844291
SNP_P4_70568_10680066	NC_021164.1	Ca_kabuli_chr05	10680066	TT	CC	1946844293
SNP_P4_70569_10680067	NC_021164.1	Ca_kabuli_chr05	10680067	CC	TT	1946844295
SNP_P4_70570_10680100	NC_021164.1	Ca_kabuli_chr05	10680100	CC	AA	1946844297
SNP_P4_70571_10680107	NC_021164.1	Ca_kabuli_chr05	10680107	AA	GG	1946844299
SNP_P4_70572_10680109	NC_021164.1	Ca_kabuli_chr05	10680109	CC	AA	1946844301
SNP_P4_70573_10680152	NC_021164.1	Ca_kabuli_chr05	10680152	AA	TT	1946844303
SNP_P4_70574_10680168	NC_021164.1	Ca_kabuli_chr05	10680168	AA	TT	1946844305
SNP_P4_70575_10680170	NC_021164.1	Ca_kabuli_chr05	10680170	GG	AA	1946844307
SNP_P4_70576_10680185	NC_021164.1	Ca_kabuli_chr05	10680185	CC	TT	1946844309
SNP_P4_70577_10680193	NC_021164.1	Ca_kabuli_chr05	10680193	TT	GG	1946844311
SNP_P4_70578_10686889	NC_021164.1	Ca_kabuli_chr05	10686889	AA	GG	1946844313
SNP_P4_70579_10686922	NC_021164.1	Ca_kabuli_chr05	10686922	CC	TT	1946844315
SNP_P4_70580_10686957	NC_021164.1	Ca_kabuli_chr05	10686957	TT	CC	1946844317
SNP_P4_70581_10686975	NC_021164.1	Ca_kabuli_chr05	10686975	TT	CC	1946844319

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_70584_10687131	NC_021164.1	Ca_kabuli_chr05	10687131	AA	GG	1946844323
SNP_P4_70585_10687204	NC_021164.1	Ca_kabuli_chr05	10687204	TT	GG	1946844325
SNP_P4_70586_10687251	NC_021164.1	Ca_kabuli_chr05	10687251	GG	AA	1946844327
SNP_P4_70587_10687320	NC_021164.1	Ca_kabuli_chr05	10687320	GG	TT	1946844329
SNP_P4_70588_10687375	NC_021164.1	Ca_kabuli_chr05	10687375	TT	GG	1946844331
SNP_P4_70589_10687455	NC_021164.1	Ca_kabuli_chr05	10687455	AA	CC	1946844333
SNP_P4_70590_10687490	NC_021164.1	Ca_kabuli_chr05	10687490	TT	CC	1946844335
SNP_P4_70591_10687500	NC_021164.1	Ca_kabuli_chr05	10687500	TT	AA	1946844337
SNP_P4_70592_10687502	NC_021164.1	Ca_kabuli_chr05	10687502	CC	TT	1946844339
SNP_P4_70593_10687823	NC_021164.1	Ca_kabuli_chr05	10687823	TT	AA	1946844341
SNP_P4_70595_10688106	NC_021164.1	Ca_kabuli_chr05	10688106	CC	TT	1946844343
SNP_P4_70596_10688108	NC_021164.1	Ca_kabuli_chr05	10688108	CC	TT	1946844345
SNP_P4_70597_10688182	NC_021164.1	Ca_kabuli_chr05	10688182	AA	TT	1946844347
SNP_P4_70598_10688185	NC_021164.1	Ca_kabuli_chr05	10688185	GG	TT	1946844349
SNP_P4_70599_10688278	NC_021164.1	Ca_kabuli_chr05	10688278	GG	AA	1946844351
SNP_P4_70600_10688368	NC_021164.1	Ca_kabuli_chr05	10688368	TT	GG	1946844353
SNP_P4_70601_10688549	NC_021164.1	Ca_kabuli_chr05	10688549	GG	CC	1946844356
SNP_P4_70603_10688585	NC_021164.1	Ca_kabuli_chr05	10688585	CC	TT	1946844358
SNP_P4_70604_10688847	NC_021164.1	Ca_kabuli_chr05	10688847	GG	TT	1946844360
SNP_P4_70605_10688886	NC_021164.1	Ca_kabuli_chr05	10688886	CC	TT	1946844362
SNP_P4_70606_10688896	NC_021164.1	Ca_kabuli_chr05	10688896	TT	AA	1946844364
SNP_P4_70607_10688907	NC_021164.1	Ca_kabuli_chr05	10688907	AA	CC	1946844366
SNP_P4_70611_10689336	NC_021164.1	Ca_kabuli_chr05	10689336	AA	TT	1946844368
SNP_P4_70612_10689387	NC_021164.1	Ca_kabuli_chr05	10689387	TT	AA	1946844370
SNP_P4_70613_10689433	NC_021164.1	Ca_kabuli_chr05	10689433	TT	CC	1946844372
SNP_P4_70615_10689693	NC_021164.1	Ca_kabuli_chr05	10689693	GG	CC	1946844374
SNP_P4_70616_10690245	NC_021164.1	Ca_kabuli_chr05	10690245	AA	TT	1946844376
SNP_P4_70617_10690942	NC_021164.1	Ca_kabuli_chr05	10690942	TT	CC	1946844378
SNP_P4_70618_10691274	NC_021164.1	Ca_kabuli_chr05	10691274	TT	AA	1946844380
SNP_P4_70619_10691317	NC_021164.1	Ca_kabuli_chr05	10691317	AA	GG	1946844382
SNP_P4_70620_10692068	NC_021164.1	Ca_kabuli_chr05	10692068	AA	GG	1946844384
SNP_P4_70621_10693440	NC_021164.1	Ca_kabuli_chr05	10693440	AA	GG	1946844386
SNP_P4_70622_10693715	NC_021164.1	Ca_kabuli_chr05	10693715	TT	GG	1946844388
SNP_P4_70624_10707083	NC_021164.1	Ca_kabuli_chr05	10707083	TT	CC	1946844390
SNP_P4_70625_10712216	NC_021164.1	Ca_kabuli_chr05	10712216	AA	GG	1946844392
SNP_P4_70626_10712222	NC_021164.1	Ca_kabuli_chr05	10712222	AA	GG	1946844394
SNP_P4_70627_10759700	NC_021164.1	Ca_kabuli_chr05	10759700	TT	CC	1946844396
SNP_P4_70628_10759855	NC_021164.1	Ca_kabuli_chr05	10759855	GG	TT	1946844398
SNP_P4_70629_10775580	NC_021164.1	Ca_kabuli_chr05	10775580	GG	CC	1946844400
SNP_P4_70630_10794946	NC_021164.1	Ca_kabuli_chr05	10794946	TT	AA	1946844403
SNP_P4_70633_10854988	NC_021164.1	Ca_kabuli_chr05	10854988	GG	AA	1946844405

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_70636_10954805	NC_021164.1	Ca_kabuli_chr05	10954805	CC	TT	1946844409
SNP_P4_70637_10954884	NC_021164.1	Ca_kabuli_chr05	10954884	TT	CC	1946844411
SNP_P4_70638_10954911	NC_021164.1	Ca_kabuli_chr05	10954911	TT	CC	1946844413
SNP_P4_70639_10955241	NC_021164.1	Ca_kabuli_chr05	10955241	CC	TT	1946844415
SNP_P4_70640_10955344	NC_021164.1	Ca_kabuli_chr05	10955344	TT	CC	1946844417
SNP_P4_70641_10955345	NC_021164.1	Ca_kabuli_chr05	10955345	GG	TT	1946844419
SNP_P4_70642_10959596	NC_021164.1	Ca_kabuli_chr05	10959596	AA	GG	1946844421
SNP_P4_70643_10965995	NC_021164.1	Ca_kabuli_chr05	10965995	GG	AA	1946844423
SNP_P4_70644_10968130	NC_021164.1	Ca_kabuli_chr05	10968130	TT	GG	1946844425
SNP_P4_70645_10977631	NC_021164.1	Ca_kabuli_chr05	10977631	CC	AA	1946844427
SNP_P4_70646_10995542	NC_021164.1	Ca_kabuli_chr05	10995542	TT	GG	1946844429
SNP_P4_70647_10995548	NC_021164.1	Ca_kabuli_chr05	10995548	AA	CC	1946844431
SNP_P4_70648_11007801	NC_021164.1	Ca_kabuli_chr05	11007801	GG	AA	1946844433
SNP_P4_70649_11007972	NC_021164.1	Ca_kabuli_chr05	11007972	TT	CC	1946844435
SNP_P4_70650_11057513	NC_021164.1	Ca_kabuli_chr05	11057513	AA	CC	1946844437
SNP_P4_70651_11064390	NC_021164.1	Ca_kabuli_chr05	11064390	AA	GG	1946844439
SNP_P4_70652_11075430	NC_021164.1	Ca_kabuli_chr05	11075430	AA	GG	1946844441
SNP_P4_70653_11075471	NC_021164.1	Ca_kabuli_chr05	11075471	AA	GG	1946844443
SNP_P4_70654_11075490	NC_021164.1	Ca_kabuli_chr05	11075490	AA	GG	1946844445
SNP_P4_70655_11075517	NC_021164.1	Ca_kabuli_chr05	11075517	AA	CC	1946844447
SNP_P4_70656_11075547	NC_021164.1	Ca_kabuli_chr05	11075547	CC	TT	1946844449
SNP_P4_70658_11131153	NC_021164.1	Ca_kabuli_chr05	11131153	AA	GG	1946844451
SNP_P4_70659_11131266	NC_021164.1	Ca_kabuli_chr05	11131266	GG	TT	1946844453
SNP_P4_70660_11131292	NC_021164.1	Ca_kabuli_chr05	11131292	TT	AA	1946844455
SNP_P4_70661_11131301	NC_021164.1	Ca_kabuli_chr05	11131301	GG	TT	1946844457
SNP_P4_70662_11131304	NC_021164.1	Ca_kabuli_chr05	11131304	CC	GG	1946844459
SNP_P4_70663_11131344	NC_021164.1	Ca_kabuli_chr05	11131344	GG	AA	1946844461
SNP_P4_70664_11131345	NC_021164.1	Ca_kabuli_chr05	11131345	TT	GG	1946844463
SNP_P4_70665_11131348	NC_021164.1	Ca_kabuli_chr05	11131348	AA	GG	1946844465
SNP_P4_70666_11131356	NC_021164.1	Ca_kabuli_chr05	11131356	TT	CC	1946844467
SNP_P4_70667_11131364	NC_021164.1	Ca_kabuli_chr05	11131364	CC	AA	1946844469
SNP_P4_70668_11131368	NC_021164.1	Ca_kabuli_chr05	11131368	GG	AA	1946844471
SNP_P4_70669_11131534	NC_021164.1	Ca_kabuli_chr05	11131534	TT	GG	1946844473
SNP_P4_70670_11132450	NC_021164.1	Ca_kabuli_chr05	11132450	AA	TT	1946844475
SNP_P4_70671_11132502	NC_021164.1	Ca_kabuli_chr05	11132502	CC	GG	1946844477
SNP_P4_70672_11132567	NC_021164.1	Ca_kabuli_chr05	11132567	TT	CC	1946844479
SNP_P4_70673_11132616	NC_021164.1	Ca_kabuli_chr05	11132616	AA	TT	1946844481
SNP_P4_70675_11132747	NC_021164.1	Ca_kabuli_chr05	11132747	TT	CC	1946844483
SNP_P4_70676_11132768	NC_021164.1	Ca_kabuli_chr05	11132768	AA	GG	1946844485
SNP_P4_70677_11132778	NC_021164.1	Ca_kabuli_chr05	11132778	CC	TT	1946844487
SNP_P4_70678_11132945	NC_021164.1	Ca_kabuli_chr05	11132945	GG	TT	1946844489

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_70681_11146857	NC_021164.1	Ca_kabuli_chr05	11146857	GG	AA	1946844493
SNP_P4_70682_11150528	NC_021164.1	Ca_kabuli_chr05	11150528	TT	GG	1946844495
SNP_P4_70683_11150531	NC_021164.1	Ca_kabuli_chr05	11150531	AA	CC	1946844497
SNP_P4_70684_11167454	NC_021164.1	Ca_kabuli_chr05	11167454	GG	AA	1946844499
SNP_P4_70685_11167551	NC_021164.1	Ca_kabuli_chr05	11167551	TT	AA	1946844502
SNP_P4_70686_11167607	NC_021164.1	Ca_kabuli_chr05	11167607	AA	GG	1946844504
SNP_P4_70687_11167791	NC_021164.1	Ca_kabuli_chr05	11167791	AA	GG	1946844506
SNP_P4_70688_11167841	NC_021164.1	Ca_kabuli_chr05	11167841	TT	AA	1946844508
SNP_P4_70690_11167868	NC_021164.1	Ca_kabuli_chr05	11167868	GG	CC	1946844510
SNP_P4_70691_11167878	NC_021164.1	Ca_kabuli_chr05	11167878	TT	CC	1946844512
SNP_P4_70692_11167883	NC_021164.1	Ca_kabuli_chr05	11167883	AA	CC	1946844514
SNP_P4_70693_11167887	NC_021164.1	Ca_kabuli_chr05	11167887	TT	CC	1946844516
SNP_P4_70694_11167891	NC_021164.1	Ca_kabuli_chr05	11167891	GG	AA	1946844518
SNP_P4_70695_11167892	NC_021164.1	Ca_kabuli_chr05	11167892	TT	CC	1946844520
SNP_P4_70696_11167898	NC_021164.1	Ca_kabuli_chr05	11167898	AA	GG	1946844522
SNP_P4_70697_11167900	NC_021164.1	Ca_kabuli_chr05	11167900	TT	GG	1946844524
SNP_P4_70698_11167944	NC_021164.1	Ca_kabuli_chr05	11167944	GG	CC	1946844526
SNP_P4_70699_11167948	NC_021164.1	Ca_kabuli_chr05	11167948	CC	TT	1946844528
SNP_P4_70700_11167975	NC_021164.1	Ca_kabuli_chr05	11167975	TT	CC	1946844530
SNP_P4_70701_11167977	NC_021164.1	Ca_kabuli_chr05	11167977	CC	AA	1946844532
SNP_P4_70702_11167986	NC_021164.1	Ca_kabuli_chr05	11167986	TT	GG	1946844534
SNP_P4_70703_11167997	NC_021164.1	Ca_kabuli_chr05	11167997	CC	GG	1946844536
SNP_P4_70704_11168012	NC_021164.1	Ca_kabuli_chr05	11168012	GG	AA	1946844538
SNP_P4_70705_11168022	NC_021164.1	Ca_kabuli_chr05	11168022	TT	CC	1946844540
SNP_P4_70706_11168046	NC_021164.1	Ca_kabuli_chr05	11168046	TT	AA	1946844541
SNP_P4_70707_11168052	NC_021164.1	Ca_kabuli_chr05	11168052	TT	CC	1946844543
SNP_P4_70708_11168115	NC_021164.1	Ca_kabuli_chr05	11168115	CC	TT	1946844545
SNP_P4_70709_11168142	NC_021164.1	Ca_kabuli_chr05	11168142	AA	TT	1946844547
SNP_P4_70710_11168165	NC_021164.1	Ca_kabuli_chr05	11168165	GG	CC	1946844549
SNP_P4_70711_11168237	NC_021164.1	Ca_kabuli_chr05	11168237	AA	CC	1946844551
SNP_P4_70712_11168238	NC_021164.1	Ca_kabuli_chr05	11168238	AA	TT	1946844553
SNP_P4_70714_11168454	NC_021164.1	Ca_kabuli_chr05	11168454	TT	CC	1946844555
SNP_P4_70715_11168514	NC_021164.1	Ca_kabuli_chr05	11168514	GG	AA	1946844557
SNP_P4_70716_11168544	NC_021164.1	Ca_kabuli_chr05	11168544	GG	TT	1946844559
SNP_P4_70717_11168611	NC_021164.1	Ca_kabuli_chr05	11168611	AA	TT	1946844561
SNP_P4_70718_11168644	NC_021164.1	Ca_kabuli_chr05	11168644	TT	CC	1946844564
SNP_P4_70719_11168668	NC_021164.1	Ca_kabuli_chr05	11168668	GG	TT	1946844566
SNP_P4_70720_11168669	NC_021164.1	Ca_kabuli_chr05	11168669	AA	GG	1946844568
SNP_P4_70721_11168754	NC_021164.1	Ca_kabuli_chr05	11168754	AA	GG	1946844570
SNP_P4_70723_11168829	NC_021164.1	Ca_kabuli_chr05	11168829	TT	CC	1946844572
SNP_P4_70724_11168861	NC_021164.1	Ca_kabuli_chr05	11168861	GG	AA	1946844574

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_70726_11168881	NC_021164.1	Ca_kabuli_chr05	11168881	CC	TT	1946844577
SNP_P4_70727_11168882	NC_021164.1	Ca_kabuli_chr05	11168882	CC	TT	1946844579
SNP_P4_70729_11168984	NC_021164.1	Ca_kabuli_chr05	11168984	AA	TT	1946844581
SNP_P4_70730_11168986	NC_021164.1	Ca_kabuli_chr05	11168986	CC	AA	1946844583
SNP_P4_70732_11169069	NC_021164.1	Ca_kabuli_chr05	11169069	GG	AA	1946844585
SNP_P4_70733_11169094	NC_021164.1	Ca_kabuli_chr05	11169094	GG	TT	1946844587
SNP_P4_70734_11169151	NC_021164.1	Ca_kabuli_chr05	11169151	AA	GG	1946844589
SNP_P4_70735_11169198	NC_021164.1	Ca_kabuli_chr05	11169198	CC	AA	1946844591
SNP_P4_70736_11169218	NC_021164.1	Ca_kabuli_chr05	11169218	TT	CC	1946844593
SNP_P4_70737_11169228	NC_021164.1	Ca_kabuli_chr05	11169228	CC	TT	1946844595
SNP_P4_70738_11169234	NC_021164.1	Ca_kabuli_chr05	11169234	AA	CC	1946844597
SNP_P4_70739_11169282	NC_021164.1	Ca_kabuli_chr05	11169282	GG	AA	1946844599
SNP_P4_70740_11169372	NC_021164.1	Ca_kabuli_chr05	11169372	TT	CC	1946844601
SNP_P4_70741_11169396	NC_021164.1	Ca_kabuli_chr05	11169396	CC	AA	1946844603
SNP_P4_70742_11169409	NC_021164.1	Ca_kabuli_chr05	11169409	AA	GG	1946844605
SNP_P4_70743_11169531	NC_021164.1	Ca_kabuli_chr05	11169531	TT	GG	1946844607
SNP_P4_70744_11169543	NC_021164.1	Ca_kabuli_chr05	11169543	AA	CC	1946844609
SNP_P4_70745_11169550	NC_021164.1	Ca_kabuli_chr05	11169550	GG	TT	1946844611
SNP_P4_70746_11169552	NC_021164.1	Ca_kabuli_chr05	11169552	AA	GG	1946844613
SNP_P4_70747_11169578	NC_021164.1	Ca_kabuli_chr05	11169578	CC	GG	1946844615
SNP_P4_70748_11169588	NC_021164.1	Ca_kabuli_chr05	11169588	CC	TT	1946844617
SNP_P4_70750_11169627	NC_021164.1	Ca_kabuli_chr05	11169627	AA	CC	1946844619
SNP_P4_70751_11169638	NC_021164.1	Ca_kabuli_chr05	11169638	AA	GG	1946844621
SNP_P4_70752_11180493	NC_021164.1	Ca_kabuli_chr05	11180493	CC	TT	1946844623
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SNP_P4_70754_11181747	NC_021164.1	Ca_kabuli_chr05	11181747	TT	AA	1946844627
SNP_P4_70755_11181769	NC_021164.1	Ca_kabuli_chr05	11181769	TT	AA	1946844629
SNP_P4_70756_11181788	NC_021164.1	Ca_kabuli_chr05	11181788	CC	GG	1946844631
SNP_P4_70757_11181865	NC_021164.1	Ca_kabuli_chr05	11181865	TT	CC	1946844633
SNP_P4_70758_11181896	NC_021164.1	Ca_kabuli_chr05	11181896	GG	CC	1946844635
SNP_P4_70759_11181899	NC_021164.1	Ca_kabuli_chr05	11181899	GG	AA	1946844637
SNP_P4_70760_11182020	NC_021164.1	Ca_kabuli_chr05	11182020	AA	GG	1946844639
SNP_P4_70761_11182140	NC_021164.1	Ca_kabuli_chr05	11182140	GG	TT	1946844641
SNP_P4_70762_11182235	NC_021164.1	Ca_kabuli_chr05	11182235	CC	AA	1946844643
SNP_P4_70763_11182292	NC_021164.1	Ca_kabuli_chr05	11182292	CC	TT	1946844645
SNP_P4_70764_11182506	NC_021164.1	Ca_kabuli_chr05	11182506	AA	TT	1946844647
SNP_P4_70765_11182518	NC_021164.1	Ca_kabuli_chr05	11182518	GG	CC	1946844648
SNP_P4_70766_11182557	NC_021164.1	Ca_kabuli_chr05	11182557	CC	TT	1946844650
SNP_P4_70767_11182561	NC_021164.1	Ca_kabuli_chr05	11182561	TT	AA	1946844652
SNP_P4_70768_11182617	NC_021164.1	Ca_kabuli_chr05	11182617	CC	GG	1946844654
SNP_P4_70769_11187940	NC_021164.1	Ca_kabuli_chr05	11187940	TT	AA	1946844656

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_70771_11187971	NC_021164.1	Ca_kabuli_chr05	11187971	AA	TT	1946844660
SNP_P4_70772_11193040	NC_021164.1	Ca_kabuli_chr05	11193040	TT	CC	1946844662
SNP_P4_70773_11230713	NC_021164.1	Ca_kabuli_chr05	11230713	TT	CC	1946844664
SNP_P4_70774_11232966	NC_021164.1	Ca_kabuli_chr05	11232966	GG	AA	1946844666
SNP_P4_70775_11232984	NC_021164.1	Ca_kabuli_chr05	11232984	CC	AA	1946844668
SNP_P4_70777_11233259	NC_021164.1	Ca_kabuli_chr05	11233259	CC	TT	1946844670
SNP_P4_70778_11233456	NC_021164.1	Ca_kabuli_chr05	11233456	GG	TT	1946844672
SNP_P4_70779_11235459	NC_021164.1	Ca_kabuli_chr05	11235459	CC	TT	1946844674
SNP_P4_70780_11243728	NC_021164.1	Ca_kabuli_chr05	11243728	TT	CC	1946844676
SNP_P4_70781_11243886	NC_021164.1	Ca_kabuli_chr05	11243886	CC	TT	1946844678
SNP_P4_70782_11244012	NC_021164.1	Ca_kabuli_chr05	11244012	GG	AA	1946844680
SNP_P4_70783_11244028	NC_021164.1	Ca_kabuli_chr05	11244028	AA	CC	1946844682
SNP_P4_70784_11244064	NC_021164.1	Ca_kabuli_chr05	11244064	GG	TT	1946844684
SNP_P4_70785_11244084	NC_021164.1	Ca_kabuli_chr05	11244084	TT	CC	1946844686
SNP_P4_70786_11244182	NC_021164.1	Ca_kabuli_chr05	11244182	AA	TT	1946844688
SNP_P4_70787_11244241	NC_021164.1	Ca_kabuli_chr05	11244241	TT	GG	1946844690
SNP_P4_70788_11271174	NC_021164.1	Ca_kabuli_chr05	11271174	GG	TT	1946844692
SNP_P4_70789_11298179	NC_021164.1	Ca_kabuli_chr05	11298179	CC	AA	1946844694
SNP_P4_70790_11298181	NC_021164.1	Ca_kabuli_chr05	11298181	AA	TT	1946844696
SNP_P4_70791_11298624	NC_021164.1	Ca_kabuli_chr05	11298624	GG	AA	1946844698
SNP_P4_70792_11298773	NC_021164.1	Ca_kabuli_chr05	11298773	TT	CC	1946844700
SNP_P4_70793_11299194	NC_021164.1	Ca_kabuli_chr05	11299194	CC	TT	1946844702
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SNP_P4_70795_11317445	NC_021164.1	Ca_kabuli_chr05	11317445	TT	AA	1946844706
SNP_P4_70796_11317455	NC_021164.1	Ca_kabuli_chr05	11317455	GG	AA	1946844708
SNP_P4_70797_11317456	NC_021164.1	Ca_kabuli_chr05	11317456	CC	AA	1946844710
SNP_P4_70799_11324576	NC_021164.1	Ca_kabuli_chr05	11324576	CC	TT	1946844712
SNP_P4_70800_11324578	NC_021164.1	Ca_kabuli_chr05	11324578	AA	GG	1946844714
SNP_P4_70801_11324664	NC_021164.1	Ca_kabuli_chr05	11324664	AA	CC	1946844716
SNP_P4_70802_11324668	NC_021164.1	Ca_kabuli_chr05	11324668	CC	TT	1946844718
SNP_P4_70803_11346306	NC_021164.1	Ca_kabuli_chr05	11346306	TT	CC	1946844720
SNP_P4_70804_11346317	NC_021164.1	Ca_kabuli_chr05	11346317	TT	GG	1946844722
SNP_P4_70805_11346407	NC_021164.1	Ca_kabuli_chr05	11346407	CC	AA	1946844724
SNP_P4_70806_11346428	NC_021164.1	Ca_kabuli_chr05	11346428	GG	CC	1946844726
SNP_P4_70807_11346441	NC_021164.1	Ca_kabuli_chr05	11346441	TT	CC	1946844728
SNP_P4_70808_11346647	NC_021164.1	Ca_kabuli_chr05	11346647	TT	CC	1946844730
SNP_P4_70809_11346677	NC_021164.1	Ca_kabuli_chr05	11346677	AA	CC	1946844732
SNP_P4_70810_11346683	NC_021164.1	Ca_kabuli_chr05	11346683	TT	CC	1946844734
SNP_P4_70811_11346704	NC_021164.1	Ca_kabuli_chr05	11346704	GG	AA	1946844736
SNP_P4_70812_11346752	NC_021164.1	Ca_kabuli_chr05	11346752	GG	TT	1946844738
SNP_P4_70813_11346760	NC_021164.1	Ca_kabuli_chr05	11346760	GG	TT	1946844739

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_70816_11346864	NC_021164.1	Ca_kabuli_chr05	11346864	CC	GG	1946844745
SNP_P4_70817_11346866	NC_021164.1	Ca_kabuli_chr05	11346866	TT	CC	1946844747
SNP_P4_70818_11347018	NC_021164.1	Ca_kabuli_chr05	11347018	TT	CC	1946844749
SNP_P4_70819_11352071	NC_021164.1	Ca_kabuli_chr05	11352071	GG	AA	1946844751
SNP_P4_70820_11352601	NC_021164.1	Ca_kabuli_chr05	11352601	GG	AA	1946844753
SNP_P4_70821_11362580	NC_021164.1	Ca_kabuli_chr05	11362580	AA	GG	1946844755
SNP_P4_70822_11362940	NC_021164.1	Ca_kabuli_chr05	11362940	AA	GG	1946844757
SNP_P4_70825_11416802	NC_021164.1	Ca_kabuli_chr05	11416802	GG	TT	1946844759
SNP_P4_70826_11420751	NC_021164.1	Ca_kabuli_chr05	11420751	AA	CC	1946844761
SNP_P4_70827_11420779	NC_021164.1	Ca_kabuli_chr05	11420779	CC	TT	1946844763
SNP_P4_70831_11512091	NC_021164.1	Ca_kabuli_chr05	11512091	TT	GG	1946844765
SNP_P4_70832_11512541	NC_021164.1	Ca_kabuli_chr05	11512541	TT	CC	1946844767
SNP_P4_70833_11512560	NC_021164.1	Ca_kabuli_chr05	11512560	AA	GG	1946844769
SNP_P4_70834_11512585	NC_021164.1	Ca_kabuli_chr05	11512585	CC	TT	1946844771
SNP_P4_70835_11512589	NC_021164.1	Ca_kabuli_chr05	11512589	AA	CC	1946844773
SNP_P4_70836_11512617	NC_021164.1	Ca_kabuli_chr05	11512617	TT	CC	1946844775
SNP_P4_70837_11512715	NC_021164.1	Ca_kabuli_chr05	11512715	GG	TT	1946844777
SNP_P4_70838_11516009	NC_021164.1	Ca_kabuli_chr05	11516009	AA	GG	1946844779
SNP_P4_70839_11516014	NC_021164.1	Ca_kabuli_chr05	11516014	CC	GG	1946844781
SNP_P4_70840_11516070	NC_021164.1	Ca_kabuli_chr05	11516070	AA	CC	1946844783
SNP_P4_70841_11516098	NC_021164.1	Ca_kabuli_chr05	11516098	TT	CC	1946844785
SNP_P4_70842_11516114	NC_021164.1	Ca_kabuli_chr05	11516114	CC	TT	1946844787
SNP_P4_70843_11516472	NC_021164.1	Ca_kabuli_chr05	11516472	GG	AA	1946844789
SNP_P4_70844_11535296	NC_021164.1	Ca_kabuli_chr05	11535296	TT	CC	1946844791
SNP_P4_70845_11535311	NC_021164.1	Ca_kabuli_chr05	11535311	AA	TT	1946844793
SNP_P4_70846_11535333	NC_021164.1	Ca_kabuli_chr05	11535333	TT	CC	1946844795
SNP_P4_70847_11545381	NC_021164.1	Ca_kabuli_chr05	11545381	TT	AA	1946844797
SNP_P4_70848_11548226	NC_021164.1	Ca_kabuli_chr05	11548226	GG	AA	1946844799
SNP_P4_70849_11548976	NC_021164.1	Ca_kabuli_chr05	11548976	TT	CC	1946844801
SNP_P4_70851_11558972	NC_021164.1	Ca_kabuli_chr05	11558972	AA	GG	1946844803
SNP_P4_70852_11572403	NC_021164.1	Ca_kabuli_chr05	11572403	TT	AA	1946844805
SNP_P4_70854_11582978	NC_021164.1	Ca_kabuli_chr05	11582978	TT	GG	1946844807
SNP_P4_70855_11582991	NC_021164.1	Ca_kabuli_chr05	11582991	CC	TT	1946844809
SNP_P4_70856_11582994	NC_021164.1	Ca_kabuli_chr05	11582994	CC	AA	1946844811
SNP_P4_70857_11583028	NC_021164.1	Ca_kabuli_chr05	11583028	TT	GG	1946844813
SNP_P4_70858_11605069	NC_021164.1	Ca_kabuli_chr05	11605069	TT	AA	1946844815
SNP_P4_70859_11619152	NC_021164.1	Ca_kabuli_chr05	11619152	AA	GG	1946844817
SNP_P4_70860_11648799	NC_021164.1	Ca_kabuli_chr05	11648799	GG	AA	1946844819
SNP_P4_70861_11649032	NC_021164.1	Ca_kabuli_chr05	11649032	AA	GG	1946844821
SNP_P4_70862_11649033	NC_021164.1	Ca_kabuli_chr05	11649033	CC	AA	1946844823

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_70863_11657149	NC_021164.1	Ca_kabuli_chr05	11657149	CC	TT	1946844824
SNP_P4_70865_11667517	NC_021164.1	Ca_kabuli_chr05	11667517	TT	CC	1946844826
SNP_P4_70866_11667522	NC_021164.1	Ca_kabuli_chr05	11667522	TT	CC	1946844828
SNP_P4_70867_11667531	NC_021164.1	Ca_kabuli_chr05	11667531	AA	GG	1946844831
SNP_P4_70868_11667532	NC_021164.1	Ca_kabuli_chr05	11667532	CC	TT	1946844833
SNP_P4_70869_11667561	NC_021164.1	Ca_kabuli_chr05	11667561	TT	CC	1946844835
SNP_P4_70870_11667567	NC_021164.1	Ca_kabuli_chr05	11667567	GG	AA	1946844837
SNP_P4_70871_11667574	NC_021164.1	Ca_kabuli_chr05	11667574	TT	CC	1946844839
SNP_P4_70872_11667919	NC_021164.1	Ca_kabuli_chr05	11667919	TT	GG	1946844841
SNP_P4_70873_11671644	NC_021164.1	Ca_kabuli_chr05	11671644	TT	AA	1946844842
SNP_P4_70874_11687588	NC_021164.1	Ca_kabuli_chr05	11687588	AA	GG	1946844844
SNP_P4_70875_11703812	NC_021164.1	Ca_kabuli_chr05	11703812	TT	CC	1946844846
SNP_P4_70876_11703837	NC_021164.1	Ca_kabuli_chr05	11703837	GG	AA	1946844848
SNP_P4_70877_11703849	NC_021164.1	Ca_kabuli_chr05	11703849	TT	AA	1946844850
SNP_P4_70878_11703852	NC_021164.1	Ca_kabuli_chr05	11703852	AA	GG	1946844852
SNP_P4_70879_11703872	NC_021164.1	Ca_kabuli_chr05	11703872	AA	GG	1946844854
SNP_P4_70880_11703923	NC_021164.1	Ca_kabuli_chr05	11703923	GG	AA	1946844856
SNP_P4_70881_11703932	NC_021164.1	Ca_kabuli_chr05	11703932	TT	CC	1946844858
SNP_P4_70882_11703947	NC_021164.1	Ca_kabuli_chr05	11703947	AA	TT	1946844860
SNP_P4_70883_11703950	NC_021164.1	Ca_kabuli_chr05	11703950	GG	AA	1946844862
SNP_P4_70884_11703953	NC_021164.1	Ca_kabuli_chr05	11703953	GG	TT	1946844864
SNP_P4_70885_11704287	NC_021164.1	Ca_kabuli_chr05	11704287	TT	CC	1946844866
SNP_P4_70886_11704294	NC_021164.1	Ca_kabuli_chr05	11704294	CC	TT	1946844868
SNP_P4_70887_11704315	NC_021164.1	Ca_kabuli_chr05	11704315	CC	TT	1946844870
SNP_P4_70888_11720426	NC_021164.1	Ca_kabuli_chr05	11720426	GG	AA	1946844872
SNP_P4_70889_11721060	NC_021164.1	Ca_kabuli_chr05	11721060	GG	AA	1946844874
SNP_P4_70890_11721982	NC_021164.1	Ca_kabuli_chr05	11721982	AA	CC	1946844876
SNP_P4_70891_11722285	NC_021164.1	Ca_kabuli_chr05	11722285	TT	AA	1946844878
SNP_P4_70892_11722474	NC_021164.1	Ca_kabuli_chr05	11722474	CC	TT	1946844880
SNP_P4_70893_11727515	NC_021164.1	Ca_kabuli_chr05	11727515	TT	GG	1946844882
SNP_P4_70894_11727588	NC_021164.1	Ca_kabuli_chr05	11727588	AA	GG	1946844883
SNP_P4_70895_11727710	NC_021164.1	Ca_kabuli_chr05	11727710	CC	TT	1946844885
SNP_P4_70897_11729501	NC_021164.1	Ca_kabuli_chr05	11729501	AA	GG	1946844887
SNP_P4_70898_11729551	NC_021164.1	Ca_kabuli_chr05	11729551	AA	GG	1946844889
SNP_P4_70899_11729556	NC_021164.1	Ca_kabuli_chr05	11729556	AA	TT	1946844891
SNP_P4_70901_11729608	NC_021164.1	Ca_kabuli_chr05	11729608	AA	TT	1946844893
SNP_P4_70902_11729725	NC_021164.1	Ca_kabuli_chr05	11729725	TT	AA	1946844895
SNP_P4_70903_11729839	NC_021164.1	Ca_kabuli_chr05	11729839	AA	GG	1946844897
SNP_P4_70904_11759275	NC_021164.1	Ca_kabuli_chr05	11759275	CC	TT	1946844899
SNP_P4_70905_11759289	NC_021164.1	Ca_kabuli_chr05	11759289	TT	AA	1946844901
SNP_P4_70906_11823098	NC_021164.1	Ca_kabuli_chr05	11823098	GG	AA	1946844903
SNP_P4_70907_11829850	NC_021164.1	Ca_kabuli_chr05	11829850	TT	CC	1946844905

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_70909_11831527	NC_021164.1	Ca_kabuli_chr05	11831527	CC	TT	1946844908
SNP_P4_70910_11832435	NC_021164.1	Ca_kabuli_chr05	11832435	CC	GG	1946844911
SNP_P4_70911_11878903	NC_021164.1	Ca_kabuli_chr05	11878903	GG	TT	1946844913
SNP_P4_70913_11879188	NC_021164.1	Ca_kabuli_chr05	11879188	TT	CC	1946844916
SNP_P4_70914_11879285	NC_021164.1	Ca_kabuli_chr05	11879285	AA	GG	1946844918
SNP_P4_70915_11879333	NC_021164.1	Ca_kabuli_chr05	11879333	TT	CC	1946844920
SNP_P4_70916_11879395	NC_021164.1	Ca_kabuli_chr05	11879395	AA	CC	1946844922
SNP_P4_70917_11880600	NC_021164.1	Ca_kabuli_chr05	11880600	TT	CC	1946844924
SNP_P4_70918_11880609	NC_021164.1	Ca_kabuli_chr05	11880609	TT	AA	1946844926
SNP_P4_70919_11880929	NC_021164.1	Ca_kabuli_chr05	11880929	CC	AA	1946844928
SNP_P4_70920_11880931	NC_021164.1	Ca_kabuli_chr05	11880931	TT	CC	1946844930
SNP_P4_70921_11900472	NC_021164.1	Ca_kabuli_chr05	11900472	TT	CC	1946844932
SNP_P4_70922_11912911	NC_021164.1	Ca_kabuli_chr05	11912911	AA	GG	1946844934
SNP_P4_70923_11912938	NC_021164.1	Ca_kabuli_chr05	11912938	TT	GG	1946844936
SNP_P4_70924_11912950	NC_021164.1	Ca_kabuli_chr05	11912950	AA	GG	1946844938
SNP_P4_70925_11913251	NC_021164.1	Ca_kabuli_chr05	11913251	TT	CC	1946844940
SNP_P4_70926_11913269	NC_021164.1	Ca_kabuli_chr05	11913269	GG	AA	1946844942
SNP_P4_70927_11913279	NC_021164.1	Ca_kabuli_chr05	11913279	AA	GG	1946844944
SNP_P4_70928_11913322	NC_021164.1	Ca_kabuli_chr05	11913322	TT	CC	1946844946
SNP_P4_70929_11913326	NC_021164.1	Ca_kabuli_chr05	11913326	AA	GG	1946844948
SNP_P4_70930_11913352	NC_021164.1	Ca_kabuli_chr05	11913352	TT	CC	1946844950
SNP_P4_70931_11913362	NC_021164.1	Ca_kabuli_chr05	11913362	TT	GG	1946844952
SNP_P4_70932_11913390	NC_021164.1	Ca_kabuli_chr05	11913390	AA	GG	1946844955
SNP_P4_70933_11913391	NC_021164.1	Ca_kabuli_chr05	11913391	GG	CC	1946844957
SNP_P4_70934_11913408	NC_021164.1	Ca_kabuli_chr05	11913408	CC	TT	1946844959
SNP_P4_70935_11913421	NC_021164.1	Ca_kabuli_chr05	11913421	AA	GG	1946844961
SNP_P4_70936_11927562	NC_021164.1	Ca_kabuli_chr05	11927562	CC	TT	1946844963
SNP_P4_70937_11927570	NC_021164.1	Ca_kabuli_chr05	11927570	TT	CC	1946844965
SNP_P4_70938_11979625	NC_021164.1	Ca_kabuli_chr05	11979625	AA	GG	1946844967
SNP_P4_70939_11983015	NC_021164.1	Ca_kabuli_chr05	11983015	TT	CC	1946844969
SNP_P4_70940_11983713	NC_021164.1	Ca_kabuli_chr05	11983713	TT	CC	1946844971
SNP_P4_70942_12004067	NC_021164.1	Ca_kabuli_chr05	12004067	GG	CC	1946844973
SNP_P4_70943_12010496	NC_021164.1	Ca_kabuli_chr05	12010496	AA	GG	1946844975
SNP_P4_70944_12010520	NC_021164.1	Ca_kabuli_chr05	12010520	TT	CC	1946844977
SNP_P4_70945_12024836	NC_021164.1	Ca_kabuli_chr05	12024836	CC	TT	1946844979
SNP_P4_70946_12054078	NC_021164.1	Ca_kabuli_chr05	12054078	AA	TT	1946844981
SNP_P4_70947_12091099	NC_021164.1	Ca_kabuli_chr05	12091099	AA	GG	1946844983
SNP_P4_70948_12091100	NC_021164.1	Ca_kabuli_chr05	12091100	CC	TT	1946844985
SNP_P4_70949_12091106	NC_021164.1	Ca_kabuli_chr05	12091106	AA	GG	1946844987
SNP_P4_70950_12091153	NC_021164.1	Ca_kabuli_chr05	12091153	GG	AA	1946844989
SNP_P4_70951_12091167	NC_021164.1	Ca_kabuli_chr05	12091167	AA	GG	1946844991

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_70953_12091460	NC_021164.1	Ca_kabuli_chr05	12091460	GG	AA	1946844995
SNP_P4_70954_12091461	NC_021164.1	Ca_kabuli_chr05	12091461	TT	CC	1946844997
SNP_P4_70955_12093279	NC_021164.1	Ca_kabuli_chr05	12093279	AA	GG	1946844999
SNP_P4_70956_12093621	NC_021164.1	Ca_kabuli_chr05	12093621	CC	AA	1946845001
SNP_P4_70957_12093637	NC_021164.1	Ca_kabuli_chr05	12093637	TT	CC	1946845003
SNP_P4_70958_12093639	NC_021164.1	Ca_kabuli_chr05	12093639	GG	AA	1946845005
SNP_P4_70959_12093643	NC_021164.1	Ca_kabuli_chr05	12093643	TT	GG	1946845007
SNP_P4_70960_12093649	NC_021164.1	Ca_kabuli_chr05	12093649	AA	GG	1946845008
SNP_P4_70961_12093706	NC_021164.1	Ca_kabuli_chr05	12093706	TT	CC	1946845010
SNP_P4_70962_12093746	NC_021164.1	Ca_kabuli_chr05	12093746	AA	CC	1946845012
SNP_P4_70963_12093747	NC_021164.1	Ca_kabuli_chr05	12093747	GG	AA	1946845014
SNP_P4_70964_12093764	NC_021164.1	Ca_kabuli_chr05	12093764	GG	TT	1946845016
SNP_P4_70965_12095764	NC_021164.1	Ca_kabuli_chr05	12095764	CC	TT	1946845018
SNP_P4_70966_12095768	NC_021164.1	Ca_kabuli_chr05	12095768	AA	GG	1946845020
SNP_P4_70967_12095769	NC_021164.1	Ca_kabuli_chr05	12095769	TT	CC	1946845022
SNP_P4_70969_12095796	NC_021164.1	Ca_kabuli_chr05	12095796	TT	CC	1946845024
SNP_P4_70970_12095849	NC_021164.1	Ca_kabuli_chr05	12095849	TT	CC	1946845026
SNP_P4_70971_12101420	NC_021164.1	Ca_kabuli_chr05	12101420	AA	GG	1946845028
SNP_P4_70973_12106429	NC_021164.1	Ca_kabuli_chr05	12106429	AA	TT	1946845030
SNP_P4_70974_12146898	NC_021164.1	Ca_kabuli_chr05	12146898	AA	GG	1946845032
SNP_P4_70975_12157014	NC_021164.1	Ca_kabuli_chr05	12157014	GG	AA	1946845034
SNP_P4_70976_12161736	NC_021164.1	Ca_kabuli_chr05	12161736	TT	CC	1946845036
SNP_P4_70977_12161802	NC_021164.1	Ca_kabuli_chr05	12161802	GG	AA	1946845038
SNP_P4_70978_12161811	NC_021164.1	Ca_kabuli_chr05	12161811	GG	AA	1946845040
SNP_P4_70980_12161910	NC_021164.1	Ca_kabuli_chr05	12161910	GG	AA	1946845042
SNP_P4_70981_12161933	NC_021164.1	Ca_kabuli_chr05	12161933	CC	GG	1946845044
SNP_P4_70983_12184134	NC_021164.1	Ca_kabuli_chr05	12184134	GG	TT	1946845046
SNP_P4_70984_12184142	NC_021164.1	Ca_kabuli_chr05	12184142	GG	TT	1946845048
SNP_P4_70985_12270941	NC_021164.1	Ca_kabuli_chr05	12270941	GG	AA	1946845050
SNP_P4_70986_12271799	NC_021164.1	Ca_kabuli_chr05	12271799	GG	AA	1946845052
SNP_P4_70987_12272966	NC_021164.1	Ca_kabuli_chr05	12272966	TT	AA	1946845053
SNP_P4_70988_12273148	NC_021164.1	Ca_kabuli_chr05	12273148	AA	CC	1946845054
SNP_P4_70989_12273385	NC_021164.1	Ca_kabuli_chr05	12273385	AA	CC	1946845055
SNP_P4_70990_12273390	NC_021164.1	Ca_kabuli_chr05	12273390	CC	TT	1946845056
SNP_P4_70991_12282440	NC_021164.1	Ca_kabuli_chr05	12282440	TT	GG	1946845057
SNP_P4_70992_12282459	NC_021164.1	Ca_kabuli_chr05	12282459	AA	TT	1946845059
SNP_P4_70993_12282774	NC_021164.1	Ca_kabuli_chr05	12282774	GG	CC	1946845061
SNP_P4_70994_12283226	NC_021164.1	Ca_kabuli_chr05	12283226	CC	AA	1946845063
SNP_P4_70995_12283228	NC_021164.1	Ca_kabuli_chr05	12283228	AA	GG	1946845065
SNP_P4_70996_12283306	NC_021164.1	Ca_kabuli_chr05	12283306	AA	GG	1946845067
SNP_P4_70997_12283543	NC_021164.1	Ca_kabuli_chr05	12283543	TT	CC	1946845069

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_71000_12292339	NC_021164.1	Ca_kabuli_chr05	12292339	TT	AA	1946845075
SNP_P4_71001_12292340	NC_021164.1	Ca_kabuli_chr05	12292340	TT	GG	1946845077
SNP_P4_71002_12299512	NC_021164.1	Ca_kabuli_chr05	12299512	GG	AA	1946845079
SNP_P4_71003_12318714	NC_021164.1	Ca_kabuli_chr05	12318714	GG	AA	1946845081
SNP_P4_71004_12318880	NC_021164.1	Ca_kabuli_chr05	12318880	TT	AA	1946845083
SNP_P4_71006_12331268	NC_021164.1	Ca_kabuli_chr05	12331268	GG	TT	1946845085
SNP_P4_71007_12360829	NC_021164.1	Ca_kabuli_chr05	12360829	GG	AA	1946845087
SNP_P4_71008_12360912	NC_021164.1	Ca_kabuli_chr05	12360912	TT	GG	1946845089
SNP_P4_71009_12360934	NC_021164.1	Ca_kabuli_chr05	12360934	AA	GG	1946845091
SNP_P4_71010_12442308	NC_021164.1	Ca_kabuli_chr05	12442308	AA	GG	1946845093
SNP_P4_71011_12450029	NC_021164.1	Ca_kabuli_chr05	12450029	TT	CC	1946845095
SNP_P4_71012_12462023	NC_021164.1	Ca_kabuli_chr05	12462023	TT	CC	1946845097
SNP_P4_71013_12473858	NC_021164.1	Ca_kabuli_chr05	12473858	GG	TT	1946845099
SNP_P4_71014_12496390	NC_021164.1	Ca_kabuli_chr05	12496390	TT	GG	1946845101
SNP_P4_71015_12496391	NC_021164.1	Ca_kabuli_chr05	12496391	TT	GG	1946845103
SNP_P4_71017_12532713	NC_021164.1	Ca_kabuli_chr05	12532713	AA	GG	1946845105
SNP_P4_71018_12532785	NC_021164.1	Ca_kabuli_chr05	12532785	AA	CC	1946845107
SNP_P4_71019_12535132	NC_021164.1	Ca_kabuli_chr05	12535132	GG	AA	1946845109
SNP_P4_71020_12535216	NC_021164.1	Ca_kabuli_chr05	12535216	AA	GG	1946845111
SNP_P4_71022_12561356	NC_021164.1	Ca_kabuli_chr05	12561356	TT	CC	1946845113
SNP_P4_71023_12588682	NC_021164.1	Ca_kabuli_chr05	12588682	AA	CC	1946845115
SNP_P4_71024_12588822	NC_021164.1	Ca_kabuli_chr05	12588822	AA	CC	1946845117
SNP_P4_71025_12588847	NC_021164.1	Ca_kabuli_chr05	12588847	GG	AA	1946845119
SNP_P4_71026_12589969	NC_021164.1	Ca_kabuli_chr05	12589969	TT	CC	1946845121
SNP_P4_71027_12590676	NC_021164.1	Ca_kabuli_chr05	12590676	CC	GG	1946845123
SNP_P4_71028_12594321	NC_021164.1	Ca_kabuli_chr05	12594321	TT	CC	1946845125
SNP_P4_71029_12594429	NC_021164.1	Ca_kabuli_chr05	12594429	AA	CC	1946845127
SNP_P4_71030_12594666	NC_021164.1	Ca_kabuli_chr05	12594666	CC	TT	1946845129
SNP_P4_71031_12594833	NC_021164.1	Ca_kabuli_chr05	12594833	AA	CC	1946845131
SNP_P4_71032_12628453	NC_021164.1	Ca_kabuli_chr05	12628453	CC	TT	1946845133
SNP_P4_71033_12635305	NC_021164.1	Ca_kabuli_chr05	12635305	TT	CC	1946845135
SNP_P4_71034_12658736	NC_021164.1	Ca_kabuli_chr05	12658736	TT	GG	1946845137
SNP_P4_71035_12658854	NC_021164.1	Ca_kabuli_chr05	12658854	AA	TT	1946845139
SNP_P4_71036_12658868	NC_021164.1	Ca_kabuli_chr05	12658868	AA	TT	1946845141
SNP_P4_71037_12658882	NC_021164.1	Ca_kabuli_chr05	12658882	CC	TT	1946845143
SNP_P4_71038_12659040	NC_021164.1	Ca_kabuli_chr05	12659040	GG	AA	1946845145
SNP_P4_71040_12659177	NC_021164.1	Ca_kabuli_chr05	12659177	TT	GG	1946845147
SNP_P4_71041_12659178	NC_021164.1	Ca_kabuli_chr05	12659178	AA	TT	1946845149
SNP_P4_71042_12659221	NC_021164.1	Ca_kabuli_chr05	12659221	CC	GG	1946845151
SNP_P4_71043_12659223	NC_021164.1	Ca_kabuli_chr05	12659223	CC	AA	1946845153

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_71044_12659225	NC_021164.1	Ca_kabuli_chr05	12659225	AA	TT	1946845155
SNP_P4_71045_12659228	NC_021164.1	Ca_kabuli_chr05	12659228	TT	AA	1946845157
SNP_P4_71047_12672873	NC_021164.1	Ca_kabuli_chr05	12672873	GG	AA	1946845159
SNP_P4_71048_12672886	NC_021164.1	Ca_kabuli_chr05	12672886	CC	TT	1946845161
SNP_P4_71049_12673242	NC_021164.1	Ca_kabuli_chr05	12673242	TT	CC	1946845163
SNP_P4_71050_12673256	NC_021164.1	Ca_kabuli_chr05	12673256	AA	GG	1946845166
SNP_P4_71051_12673284	NC_021164.1	Ca_kabuli_chr05	12673284	CC	TT	1946845167
SNP_P4_71052_12673305	NC_021164.1	Ca_kabuli_chr05	12673305	AA	CC	1946845169
SNP_P4_71053_12674532	NC_021164.1	Ca_kabuli_chr05	12674532	AA	GG	1946845171
SNP_P4_71054_13580166	NC_021164.1	Ca_kabuli_chr05	13580166	GG	AA	1946845173
SNP_P4_71055_13585384	NC_021164.1	Ca_kabuli_chr05	13585384	CC	TT	1946845175
SNP_P4_71056_13586052	NC_021164.1	Ca_kabuli_chr05	13586052	AA	GG	1946845177
SNP_P4_71057_13591851	NC_021164.1	Ca_kabuli_chr05	13591851	TT	CC	1946845179
SNP_P4_71058_13592721	NC_021164.1	Ca_kabuli_chr05	13592721	TT	AA	1946845181
SNP_P4_71059_13592722	NC_021164.1	Ca_kabuli_chr05	13592722	TT	CC	1946845184
SNP_P4_71060_13599581	NC_021164.1	Ca_kabuli_chr05	13599581	AA	TT	1946845186
SNP_P4_71061_13610540	NC_021164.1	Ca_kabuli_chr05	13610540	GG	TT	1946845188
SNP_P4_71062_13610551	NC_021164.1	Ca_kabuli_chr05	13610551	GG	AA	1946845190
SNP_P4_71063_13610554	NC_021164.1	Ca_kabuli_chr05	13610554	TT	AA	1946845192
SNP_P4_71064_13610566	NC_021164.1	Ca_kabuli_chr05	13610566	CC	TT	1946845194
SNP_P4_71065_13610570	NC_021164.1	Ca_kabuli_chr05	13610570	TT	GG	1946845196
SNP_P4_71066_13610826	NC_021164.1	Ca_kabuli_chr05	13610826	TT	AA	1946845198
SNP_P4_71067_13611760	NC_021164.1	Ca_kabuli_chr05	13611760	AA	GG	1946845200
SNP_P4_71068_13611775	NC_021164.1	Ca_kabuli_chr05	13611775	GG	AA	1946845202
SNP_P4_71069_13611853	NC_021164.1	Ca_kabuli_chr05	13611853	AA	TT	1946845204
SNP_P4_71070_13611905	NC_021164.1	Ca_kabuli_chr05	13611905	GG	AA	1946845206
SNP_P4_71071_13612084	NC_021164.1	Ca_kabuli_chr05	13612084	CC	GG	1946845208
SNP_P4_71072_13612107	NC_021164.1	Ca_kabuli_chr05	13612107	CC	TT	1946845210
SNP_P4_71073_13612168	NC_021164.1	Ca_kabuli_chr05	13612168	GG	AA	1946845212
SNP_P4_71074_13612188	NC_021164.1	Ca_kabuli_chr05	13612188	TT	CC	1946845214
SNP_P4_71075_13612192	NC_021164.1	Ca_kabuli_chr05	13612192	GG	AA	1946845216
SNP_P4_71076_13612212	NC_021164.1	Ca_kabuli_chr05	13612212	TT	CC	1946845219
SNP_P4_71077_13612221	NC_021164.1	Ca_kabuli_chr05	13612221	AA	GG	1946845221
SNP_P4_71078_13616029	NC_021164.1	Ca_kabuli_chr05	13616029	CC	TT	1946845223
SNP_P4_71079_13623728	NC_021164.1	Ca_kabuli_chr05	13623728	AA	TT	1946845225
SNP_P4_71080_13623833	NC_021164.1	Ca_kabuli_chr05	13623833	GG	AA	1946845227
SNP_P4_71081_13623877	NC_021164.1	Ca_kabuli_chr05	13623877	AA	GG	1946845229
SNP_P4_71082_13623898	NC_021164.1	Ca_kabuli_chr05	13623898	TT	GG	1946845231
SNP_P4_71083_13623983	NC_021164.1	Ca_kabuli_chr05	13623983	GG	AA	1946845233
SNP_P4_71084_13623989	NC_021164.1	Ca_kabuli_chr05	13623989	GG	CC	1946845235
SNP_P4_71085_13624047	NC_021164.1	Ca_kabuli_chr05	13624047	AA	GG	1946845237
SNP_P4_71086_13624077	NC_021164.1	Ca_kabuli_chr05	13624077	GG	AA	1946845239

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_71089_13624305	NC_021164.1	Ca_kabuli_chr05	13624305	TT	CC	1946845243
SNP_P4_71090_13624307	NC_021164.1	Ca_kabuli_chr05	13624307	TT	AA	1946845245
SNP_P4_71091_13624331	NC_021164.1	Ca_kabuli_chr05	13624331	TT	AA	1946845247
SNP_P4_71092_13628491	NC_021164.1	Ca_kabuli_chr05	13628491	TT	GG	1946845249
SNP_P4_71093_13628512	NC_021164.1	Ca_kabuli_chr05	13628512	GG	TT	1946845251
SNP_P4_71094_13628536	NC_021164.1	Ca_kabuli_chr05	13628536	GG	TT	1946845253
SNP_P4_71095_13628746	NC_021164.1	Ca_kabuli_chr05	13628746	CC	AA	1946845255
SNP_P4_71096_13628773	NC_021164.1	Ca_kabuli_chr05	13628773	CC	TT	1946845257
SNP_P4_71097_13628789	NC_021164.1	Ca_kabuli_chr05	13628789	TT	GG	1946845259
SNP_P4_71098_13628934	NC_021164.1	Ca_kabuli_chr05	13628934	GG	CC	1946845261
SNP_P4_71099_13628974	NC_021164.1	Ca_kabuli_chr05	13628974	TT	AA	1946845263
SNP_P4_71100_13629051	NC_021164.1	Ca_kabuli_chr05	13629051	CC	GG	1946845265
SNP_P4_71101_13636242	NC_021164.1	Ca_kabuli_chr05	13636242	GG	AA	1946845267
SNP_P4_71102_13636255	NC_021164.1	Ca_kabuli_chr05	13636255	AA	GG	1946845269
SNP_P4_71104_13636558	NC_021164.1	Ca_kabuli_chr05	13636558	AA	CC	1946845271
SNP_P4_71105_13636663	NC_021164.1	Ca_kabuli_chr05	13636663	TT	CC	1946845273
SNP_P4_71106_13636672	NC_021164.1	Ca_kabuli_chr05	13636672	AA	GG	1946845275
SNP_P4_71107_13636815	NC_021164.1	Ca_kabuli_chr05	13636815	TT	CC	1946845277
SNP_P4_71108_13636852	NC_021164.1	Ca_kabuli_chr05	13636852	AA	TT	1946845279
SNP_P4_71109_13636910	NC_021164.1	Ca_kabuli_chr05	13636910	CC	GG	1946845281
SNP_P4_71111_13637051	NC_021164.1	Ca_kabuli_chr05	13637051	AA	TT	1946845283
SNP_P4_71112_13647436	NC_021164.1	Ca_kabuli_chr05	13647436	CC	AA	1946845285
SNP_P4_71113_13650792	NC_021164.1	Ca_kabuli_chr05	13650792	CC	GG	1946845287
SNP_P4_71114_13650977	NC_021164.1	Ca_kabuli_chr05	13650977	TT	AA	1946845289
SNP_P4_71115_13651001	NC_021164.1	Ca_kabuli_chr05	13651001	CC	AA	1946845291
SNP_P4_71116_13651029	NC_021164.1	Ca_kabuli_chr05	13651029	GG	AA	1946845293
SNP_P4_71117_13651179	NC_021164.1	Ca_kabuli_chr05	13651179	CC	TT	1946845295
SNP_P4_71118_13651264	NC_021164.1	Ca_kabuli_chr05	13651264	AA	GG	1946845297
SNP_P4_71119_13651268	NC_021164.1	Ca_kabuli_chr05	13651268	CC	TT	1946845299
SNP_P4_71120_13651299	NC_021164.1	Ca_kabuli_chr05	13651299	AA	GG	1946845301
SNP_P4_71121_13651363	NC_021164.1	Ca_kabuli_chr05	13651363	CC	TT	1946845303
SNP_P4_71122_13663530	NC_021164.1	Ca_kabuli_chr05	13663530	TT	CC	1946845305
SNP_P4_71123_13675438	NC_021164.1	Ca_kabuli_chr05	13675438	GG	AA	1946845308
SNP_P4_71124_13675486	NC_021164.1	Ca_kabuli_chr05	13675486	GG	AA	1946845310
SNP_P4_71125_13683442	NC_021164.1	Ca_kabuli_chr05	13683442	AA	TT	1946845312
SNP_P4_71126_13693752	NC_021164.1	Ca_kabuli_chr05	13693752	AA	TT	1946845314
SNP_P4_71127_13695613	NC_021164.1	Ca_kabuli_chr05	13695613	AA	TT	1946845316
SNP_P4_71128_13695676	NC_021164.1	Ca_kabuli_chr05	13695676	TT	CC	1946845318
SNP_P4_71129_13695944	NC_021164.1	Ca_kabuli_chr05	13695944	TT	CC	1946845320
SNP_P4_71130_13695975	NC_021164.1	Ca_kabuli_chr05	13695975	GG	CC	1946845322
SNP_P4_71131_13695993	NC_021164.1	Ca_kabuli_chr05	13695993	AA	GG	1946845324

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_71133_13708156	NC_021164.1	Ca_kabuli_chr05	13708156	CC	TT	1946845328
SNP_P4_71134_13714932	NC_021164.1	Ca_kabuli_chr05	13714932	AA	CC	1946845330
SNP_P4_71135_13737116	NC_021164.1	Ca_kabuli_chr05	13737116	CC	TT	1946845332
SNP_P4_71136_13737536	NC_021164.1	Ca_kabuli_chr05	13737536	AA	GG	1946845334
SNP_P4_71137_13737550	NC_021164.1	Ca_kabuli_chr05	13737550	TT	CC	1946845336
SNP_P4_71139_13765808	NC_021164.1	Ca_kabuli_chr05	13765808	AA	CC	1946845338
SNP_P4_71140_13770895	NC_021164.1	Ca_kabuli_chr05	13770895	GG	AA	1946845340
SNP_P4_71142_13812292	NC_021164.1	Ca_kabuli_chr05	13812292	TT	CC	1946845341
SNP_P4_71143_13812315	NC_021164.1	Ca_kabuli_chr05	13812315	TT	CC	1946845343
SNP_P4_71144_13812321	NC_021164.1	Ca_kabuli_chr05	13812321	TT	CC	1946845345
SNP_P4_71145_13826373	NC_021164.1	Ca_kabuli_chr05	13826373	TT	AA	1946845347
SNP_P4_71146_13826378	NC_021164.1	Ca_kabuli_chr05	13826378	AA	GG	1946845349
SNP_P4_71147_13826400	NC_021164.1	Ca_kabuli_chr05	13826400	AA	TT	1946845351
SNP_P4_71148_13826404	NC_021164.1	Ca_kabuli_chr05	13826404	TT	AA	1946845353
SNP_P4_71149_13826406	NC_021164.1	Ca_kabuli_chr05	13826406	AA	TT	1946845355
SNP_P4_71150_13826413	NC_021164.1	Ca_kabuli_chr05	13826413	TT	GG	1946845357
SNP_P4_71151_13826419	NC_021164.1	Ca_kabuli_chr05	13826419	AA	CC	1946845359
SNP_P4_71152_13834404	NC_021164.1	Ca_kabuli_chr05	13834404	CC	TT	1946845361
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SNP_P4_71154_13837615	NC_021164.1	Ca_kabuli_chr05	13837615	GG	TT	1946845365
SNP_P4_71155_13838120	NC_021164.1	Ca_kabuli_chr05	13838120	TT	GG	1946845367
SNP_P4_71156_13838445	NC_021164.1	Ca_kabuli_chr05	13838445	AA	GG	1946845369
SNP_P4_71157_13838453	NC_021164.1	Ca_kabuli_chr05	13838453	TT	CC	1946845371
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SNP_P4_71160_13854320	NC_021164.1	Ca_kabuli_chr05	13854320	TT	AA	1946845377
SNP_P4_71161_13854334	NC_021164.1	Ca_kabuli_chr05	13854334	TT	CC	1946845379
SNP_P4_71162_13854335	NC_021164.1	Ca_kabuli_chr05	13854335	CC	TT	1946845381
SNP_P4_71163_13854362	NC_021164.1	Ca_kabuli_chr05	13854362	TT	CC	1946845383
SNP_P4_71164_13854416	NC_021164.1	Ca_kabuli_chr05	13854416	CC	TT	1946845385
SNP_P4_71165_13854583	NC_021164.1	Ca_kabuli_chr05	13854583	TT	CC	1946845387
SNP_P4_71166_13854592	NC_021164.1	Ca_kabuli_chr05	13854592	TT	CC	1946845389
SNP_P4_71167_13854614	NC_021164.1	Ca_kabuli_chr05	13854614	AA	GG	1946845391
SNP_P4_71168_13854627	NC_021164.1	Ca_kabuli_chr05	13854627	AA	GG	1946845393
SNP_P4_71169_13854631	NC_021164.1	Ca_kabuli_chr05	13854631	GG	AA	1946845394
SNP_P4_71170_13854652	NC_021164.1	Ca_kabuli_chr05	13854652	GG	AA	1946845395
SNP_P4_71171_13854655	NC_021164.1	Ca_kabuli_chr05	13854655	TT	CC	1946845397
SNP_P4_71172_13854663	NC_021164.1	Ca_kabuli_chr05	13854663	TT	GG	1946845399
SNP_P4_71173_13854694	NC_021164.1	Ca_kabuli_chr05	13854694	CC	AA	1946845401
SNP_P4_71174_13854721	NC_021164.1	Ca_kabuli_chr05	13854721	TT	CC	1946845403
SNP_P4_71175_13854725	NC_021164.1	Ca_kabuli_chr05	13854725	AA	GG	1946845404

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_71178_13854751	NC_021164.1	Ca_kabuli_chr05	13854751	CC	AA	1946845408
SNP_P4_71179_13854757	NC_021164.1	Ca_kabuli_chr05	13854757	CC	TT	1946845410
SNP_P4_71180_13854775	NC_021164.1	Ca_kabuli_chr05	13854775	TT	AA	1946845412
SNP_P4_71181_13855484	NC_021164.1	Ca_kabuli_chr05	13855484	AA	GG	1946845414
SNP_P4_71182_13855569	NC_021164.1	Ca_kabuli_chr05	13855569	TT	AA	1946845416
SNP_P4_71183_13855593	NC_021164.1	Ca_kabuli_chr05	13855593	CC	AA	1946845418
SNP_P4_71184_13855616	NC_021164.1	Ca_kabuli_chr05	13855616	TT	AA	1946845420
SNP_P4_71185_13855627	NC_021164.1	Ca_kabuli_chr05	13855627	CC	AA	1946845422
SNP_P4_71186_13855650	NC_021164.1	Ca_kabuli_chr05	13855650	TT	CC	1946845424
SNP_P4_71187_13855720	NC_021164.1	Ca_kabuli_chr05	13855720	CC	AA	1946845426
SNP_P4_71188_13855736	NC_021164.1	Ca_kabuli_chr05	13855736	AA	TT	1946845428
SNP_P4_71189_13855892	NC_021164.1	Ca_kabuli_chr05	13855892	TT	CC	1946845430
SNP_P4_71190_13856038	NC_021164.1	Ca_kabuli_chr05	13856038	TT	GG	1946845432
SNP_P4_71191_13856113	NC_021164.1	Ca_kabuli_chr05	13856113	AA	GG	1946845434
SNP_P4_71192_13856199	NC_021164.1	Ca_kabuli_chr05	13856199	AA	GG	1946845436
SNP_P4_71193_13856203	NC_021164.1	Ca_kabuli_chr05	13856203	GG	CC	1946845438
SNP_P4_71194_13856393	NC_021164.1	Ca_kabuli_chr05	13856393	TT	GG	1946845440
SNP_P4_71195_13856397	NC_021164.1	Ca_kabuli_chr05	13856397	AA	GG	1946845442
SNP_P4_71196_13858149	NC_021164.1	Ca_kabuli_chr05	13858149	GG	AA	1946845444
SNP_P4_71197_13858475	NC_021164.1	Ca_kabuli_chr05	13858475	GG	AA	1946845446
SNP_P4_71198_13871740	NC_021164.1	Ca_kabuli_chr05	13871740	TT	CC	1946845448
SNP_P4_71199_13892532	NC_021164.1	Ca_kabuli_chr05	13892532	TT	CC	1946845450
SNP_P4_71200_13892549	NC_021164.1	Ca_kabuli_chr05	13892549	CC	TT	1946845452
SNP_P4_71201_13892575	NC_021164.1	Ca_kabuli_chr05	13892575	AA	GG	1946845454
SNP_P4_71202_13892590	NC_021164.1	Ca_kabuli_chr05	13892590	AA	GG	1946845456
SNP_P4_71203_13892613	NC_021164.1	Ca_kabuli_chr05	13892613	CC	TT	1946845458
SNP_P4_71204_13892637	NC_021164.1	Ca_kabuli_chr05	13892637	TT	CC	1946845460
SNP_P4_71205_13892648	NC_021164.1	Ca_kabuli_chr05	13892648	GG	TT	1946845462
SNP_P4_71206_13892670	NC_021164.1	Ca_kabuli_chr05	13892670	CC	TT	1946845464
SNP_P4_71207_13892699	NC_021164.1	Ca_kabuli_chr05	13892699	AA	GG	1946845466
SNP_P4_71208_13892711	NC_021164.1	Ca_kabuli_chr05	13892711	AA	GG	1946845468
SNP_P4_71209_13892900	NC_021164.1	Ca_kabuli_chr05	13892900	GG	TT	1946845470
SNP_P4_71210_13892953	NC_021164.1	Ca_kabuli_chr05	13892953	TT	CC	1946845472
SNP_P4_71211_13892969	NC_021164.1	Ca_kabuli_chr05	13892969	CC	TT	1946845474
SNP_P4_71212_13893013	NC_021164.1	Ca_kabuli_chr05	13893013	TT	CC	1946845476
SNP_P4_71213_13893036	NC_021164.1	Ca_kabuli_chr05	13893036	TT	CC	1946845478
SNP_P4_71214_13893112	NC_021164.1	Ca_kabuli_chr05	13893112	GG	AA	1946845480
SNP_P4_71215_13893148	NC_021164.1	Ca_kabuli_chr05	13893148	TT	GG	1946845482
SNP_P4_71216_13893161	NC_021164.1	Ca_kabuli_chr05	13893161	AA	CC	1946845484
SNP_P4_71217_13893173	NC_021164.1	Ca_kabuli_chr05	13893173	TT	CC	1946845486
SNP_P4_71218_13934955	NC_021164.1	Ca_kabuli_chr05	13934955	TT	CC	1946845488

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_71219_13936232	NC_021164.1	Ca_kabuli_chr05	13936232	AA	CC	1946845490
SNP_P4_71220_13936246	NC_021164.1	Ca_kabuli_chr05	13936246	GG	AA	1946845492
SNP_P4_71221_13936250	NC_021164.1	Ca_kabuli_chr05	13936250	AA	GG	1946845494
SNP_P4_71222_13936923	NC_021164.1	Ca_kabuli_chr05	13936923	GG	AA	1946845496
SNP_P4_71223_13939179	NC_021164.1	Ca_kabuli_chr05	13939179	GG	CC	1946845498
SNP_P4_71224_13939195	NC_021164.1	Ca_kabuli_chr05	13939195	TT	AA	1946845500
SNP_P4_71225_13939232	NC_021164.1	Ca_kabuli_chr05	13939232	AA	CC	1946845502
SNP_P4_71226_13939251	NC_021164.1	Ca_kabuli_chr05	13939251	GG	CC	1946845504
SNP_P4_71227_13939270	NC_021164.1	Ca_kabuli_chr05	13939270	AA	GG	1946845506
SNP_P4_71228_13939286	NC_021164.1	Ca_kabuli_chr05	13939286	CC	TT	1946845508
SNP_P4_71229_13939299	NC_021164.1	Ca_kabuli_chr05	13939299	GG	TT	1946845510
SNP_P4_71230_13939383	NC_021164.1	Ca_kabuli_chr05	13939383	GG	CC	1946845512
SNP_P4_71231_13939394	NC_021164.1	Ca_kabuli_chr05	13939394	GG	TT	1946845514
SNP_P4_71232_13939398	NC_021164.1	Ca_kabuli_chr05	13939398	CC	GG	1946845516
SNP_P4_71233_13939447	NC_021164.1	Ca_kabuli_chr05	13939447	TT	CC	1946845518
SNP_P4_71234_13939465	NC_021164.1	Ca_kabuli_chr05	13939465	AA	CC	1946845520
SNP_P4_71235_13939815	NC_021164.1	Ca_kabuli_chr05	13939815	TT	CC	1946845522
SNP_P4_71236_13941069	NC_021164.1	Ca_kabuli_chr05	13941069	TT	CC	1946845524
SNP_P4_71238_13971753	NC_021164.1	Ca_kabuli_chr05	13971753	TT	CC	1946845526
SNP_P4_71239_13971800	NC_021164.1	Ca_kabuli_chr05	13971800	GG	TT	1946845528
SNP_P4_71241_13971986	NC_021164.1	Ca_kabuli_chr05	13971986	CC	AA	1946845530
SNP_P4_71242_13971994	NC_021164.1	Ca_kabuli_chr05	13971994	TT	CC	1946845532
SNP_P4_71243_13972029	NC_021164.1	Ca_kabuli_chr05	13972029	TT	CC	1946845534
SNP_P4_71244_13972096	NC_021164.1	Ca_kabuli_chr05	13972096	TT	CC	1946845535
SNP_P4_71245_13972686	NC_021164.1	Ca_kabuli_chr05	13972686	AA	GG	1946845537
SNP_P4_71246_13981561	NC_021164.1	Ca_kabuli_chr05	13981561	GG	AA	1946845539
SNP_P4_71247_13986878	NC_021164.1	Ca_kabuli_chr05	13986878	AA	GG	1946845541
SNP_P4_71248_13987161	NC_021164.1	Ca_kabuli_chr05	13987161	TT	GG	1946845543
SNP_P4_71249_13987176	NC_021164.1	Ca_kabuli_chr05	13987176	AA	GG	1946845545
SNP_P4_71250_14018190	NC_021164.1	Ca_kabuli_chr05	14018190	AA	GG	1946845547
SNP_P4_71251_14018404	NC_021164.1	Ca_kabuli_chr05	14018404	TT	GG	1946845549
SNP_P4_71252_14018409	NC_021164.1	Ca_kabuli_chr05	14018409	TT	CC	1946845551
SNP_P4_71253_14018418	NC_021164.1	Ca_kabuli_chr05	14018418	AA	GG	1946845553
SNP_P4_71254_14018433	NC_021164.1	Ca_kabuli_chr05	14018433	AA	GG	1946845555
SNP_P4_71255_14018447	NC_021164.1	Ca_kabuli_chr05	14018447	AA	TT	1946845557
SNP_P4_71256_14018469	NC_021164.1	Ca_kabuli_chr05	14018469	GG	CC	1946845559
SNP_P4_71257_14018512	NC_021164.1	Ca_kabuli_chr05	14018512	TT	CC	1946845561
SNP_P4_71258_14020378	NC_021164.1	Ca_kabuli_chr05	14020378	AA	GG	1946845563
SNP_P4_71260_14022690	NC_021164.1	Ca_kabuli_chr05	14022690	TT	CC	1946845565
SNP_P4_71261_14022808	NC_021164.1	Ca_kabuli_chr05	14022808	CC	AA	1946845567
SNP_P4_71262_14022846	NC_021164.1	Ca_kabuli_chr05	14022846	AA	GG	1946845568
SNP_P4_71263_14022857	NC_021164.1	Ca_kabuli_chr05	14022857	GG	CC	1946845570

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_71265_14022888	NC_021164.1	Ca_kabuli_chr05	14022888	TT	CC	1946845574
SNP_P4_71266_14022906	NC_021164.1	Ca_kabuli_chr05	14022906	AA	GG	1946845576
SNP_P4_71267_14023077	NC_021164.1	Ca_kabuli_chr05	14023077	CC	TT	1946845578
SNP_P4_71268_14023082	NC_021164.1	Ca_kabuli_chr05	14023082	AA	CC	1946845580
SNP_P4_71269_14023085	NC_021164.1	Ca_kabuli_chr05	14023085	GG	TT	1946845582
SNP_P4_71270_14023097	NC_021164.1	Ca_kabuli_chr05	14023097	CC	TT	1946845584
SNP_P4_71271_14058224	NC_021164.1	Ca_kabuli_chr05	14058224	CC	TT	1946845586
SNP_P4_71272_14058233	NC_021164.1	Ca_kabuli_chr05	14058233	CC	TT	1946845589
SNP_P4_71273_14058275	NC_021164.1	Ca_kabuli_chr05	14058275	TT	AA	1946845591
SNP_P4_71274_14058299	NC_021164.1	Ca_kabuli_chr05	14058299	TT	CC	1946845593
SNP_P4_71275_14058315	NC_021164.1	Ca_kabuli_chr05	14058315	CC	TT	1946845595
SNP_P4_71276_14058329	NC_021164.1	Ca_kabuli_chr05	14058329	GG	AA	1946845597
SNP_P4_71277_14058360	NC_021164.1	Ca_kabuli_chr05	14058360	GG	AA	1946845599
SNP_P4_71278_14058363	NC_021164.1	Ca_kabuli_chr05	14058363	TT	CC	1946845601
SNP_P4_71279_14058380	NC_021164.1	Ca_kabuli_chr05	14058380	TT	AA	1946845603
SNP_P4_71280_14058384	NC_021164.1	Ca_kabuli_chr05	14058384	CC	AA	1946845605
SNP_P4_71281_14058398	NC_021164.1	Ca_kabuli_chr05	14058398	CC	TT	1946845607
SNP_P4_71282_14058557	NC_021164.1	Ca_kabuli_chr05	14058557	CC	AA	1946845609
SNP_P4_71283_14058649	NC_021164.1	Ca_kabuli_chr05	14058649	TT	GG	1946845611
SNP_P4_71284_14058651	NC_021164.1	Ca_kabuli_chr05	14058651	GG	AA	1946845613
SNP_P4_71285_14058670	NC_021164.1	Ca_kabuli_chr05	14058670	CC	AA	1946845615
SNP_P4_71286_14058678	NC_021164.1	Ca_kabuli_chr05	14058678	AA	CC	1946845617
SNP_P4_71287_14059136	NC_021164.1	Ca_kabuli_chr05	14059136	GG	AA	1946845619
SNP_P4_71288_14059159	NC_021164.1	Ca_kabuli_chr05	14059159	TT	GG	1946845621
SNP_P4_71290_14059398	NC_021164.1	Ca_kabuli_chr05	14059398	CC	AA	1946845623
SNP_P4_71291_14059493	NC_021164.1	Ca_kabuli_chr05	14059493	GG	TT	1946845625
SNP_P4_71292_14062493	NC_021164.1	Ca_kabuli_chr05	14062493	CC	TT	1946845627
SNP_P4_71293_14066299	NC_021164.1	Ca_kabuli_chr05	14066299	AA	TT	1946845629
SNP_P4_71294_14094766	NC_021164.1	Ca_kabuli_chr05	14094766	AA	GG	1946845631
SNP_P4_71295_14113067	NC_021164.1	Ca_kabuli_chr05	14113067	AA	TT	1946845633
SNP_P4_71296_14167390	NC_021164.1	Ca_kabuli_chr05	14167390	TT	CC	1946845635
SNP_P4_71297_14167402	NC_021164.1	Ca_kabuli_chr05	14167402	TT	AA	1946845637
SNP_P4_71298_14167619	NC_021164.1	Ca_kabuli_chr05	14167619	CC	TT	1946845638
SNP_P4_71299_14195844	NC_021164.1	Ca_kabuli_chr05	14195844	CC	TT	1946845640
SNP_P4_71300_14206595	NC_021164.1	Ca_kabuli_chr05	14206595	GG	TT	1946845642
SNP_P4_71301_14228474	NC_021164.1	Ca_kabuli_chr05	14228474	TT	GG	1946845644
SNP_P4_71302_14230362	NC_021164.1	Ca_kabuli_chr05	14230362	AA	CC	1946845646
SNP_P4_71304_14272964	NC_021164.1	Ca_kabuli_chr05	14272964	GG	AA	1946845648
SNP_P4_71305_14273109	NC_021164.1	Ca_kabuli_chr05	14273109	CC	TT	1946845650
SNP_P4_71306_14273186	NC_021164.1	Ca_kabuli_chr05	14273186	AA	CC	1946845652
SNP_P4_71307_14273342	NC_021164.1	Ca_kabuli_chr05	14273342	CC	TT	1946845654

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_71311_14326489	NC_021164.1	Ca_kabuli_chr05	14326489	GG	AA	1946845658
SNP_P4_71312_14326512	NC_021164.1	Ca_kabuli_chr05	14326512	CC	GG	1946845660
SNP_P4_71314_14365035	NC_021164.1	Ca_kabuli_chr05	14365035	AA	GG	1946845662
SNP_P4_71315_14365036	NC_021164.1	Ca_kabuli_chr05	14365036	AA	GG	1946845663
SNP_P4_71316_14390596	NC_021164.1	Ca_kabuli_chr05	14390596	CC	AA	1946845665
SNP_P4_71317_14390600	NC_021164.1	Ca_kabuli_chr05	14390600	CC	TT	1946845667
SNP_P4_71318_14390605	NC_021164.1	Ca_kabuli_chr05	14390605	TT	CC	1946845669
SNP_P4_71320_14394944	NC_021164.1	Ca_kabuli_chr05	14394944	CC	TT	1946845671
SNP_P4_71321_14394979	NC_021164.1	Ca_kabuli_chr05	14394979	TT	CC	1946845673
SNP_P4_71322_14395026	NC_021164.1	Ca_kabuli_chr05	14395026	TT	CC	1946845675
SNP_P4_71323_14395028	NC_021164.1	Ca_kabuli_chr05	14395028	TT	CC	1946845677
SNP_P4_71324_14395043	NC_021164.1	Ca_kabuli_chr05	14395043	AA	CC	1946845679
SNP_P4_71325_14395108	NC_021164.1	Ca_kabuli_chr05	14395108	AA	CC	1946845681
SNP_P4_71326_14395115	NC_021164.1	Ca_kabuli_chr05	14395115	GG	AA	1946845683
SNP_P4_71327_14395132	NC_021164.1	Ca_kabuli_chr05	14395132	TT	CC	1946845685
SNP_P4_71328_14395139	NC_021164.1	Ca_kabuli_chr05	14395139	TT	CC	1946845687
SNP_P4_71329_14395217	NC_021164.1	Ca_kabuli_chr05	14395217	CC	TT	1946845689
SNP_P4_71330_14395272	NC_021164.1	Ca_kabuli_chr05	14395272	TT	CC	1946845691
SNP_P4_71331_14395286	NC_021164.1	Ca_kabuli_chr05	14395286	CC	TT	1946845693
SNP_P4_71332_14395334	NC_021164.1	Ca_kabuli_chr05	14395334	TT	AA	1946845695
SNP_P4_71333_14395347	NC_021164.1	Ca_kabuli_chr05	14395347	AA	TT	1946845697
SNP_P4_71334_14395372	NC_021164.1	Ca_kabuli_chr05	14395372	CC	GG	1946845699
SNP_P4_71335_14395437	NC_021164.1	Ca_kabuli_chr05	14395437	CC	TT	1946845701
SNP_P4_71336_15111962	NC_021164.1	Ca_kabuli_chr05	15111962	TT	CC	1946845703
SNP_P4_71337_15116182	NC_021164.1	Ca_kabuli_chr05	15116182	AA	GG	1946845705
SNP_P4_71338_15126450	NC_021164.1	Ca_kabuli_chr05	15126450	GG	TT	1946845707
SNP_P4_71339_15126573	NC_021164.1	Ca_kabuli_chr05	15126573	TT	AA	1946845709
SNP_P4_71340_15162884	NC_021164.1	Ca_kabuli_chr05	15162884	GG	AA	1946845711
SNP_P4_71341_15166612	NC_021164.1	Ca_kabuli_chr05	15166612	TT	CC	1946845713
SNP_P4_71342_15166626	NC_021164.1	Ca_kabuli_chr05	15166626	AA	CC	1946845715
SNP_P4_71343_15167483	NC_021164.1	Ca_kabuli_chr05	15167483	AA	GG	1946845717
SNP_P4_71344_15167501	NC_021164.1	Ca_kabuli_chr05	15167501	TT	CC	1946845719
SNP_P4_71345_15169926	NC_021164.1	Ca_kabuli_chr05	15169926	TT	CC	1946845721
SNP_P4_71346_15169997	NC_021164.1	Ca_kabuli_chr05	15169997	CC	TT	1946845723
SNP_P4_71347_15170385	NC_021164.1	Ca_kabuli_chr05	15170385	AA	GG	1946845725
SNP_P4_71348_15170912	NC_021164.1	Ca_kabuli_chr05	15170912	GG	AA	1946845727
SNP_P4_71350_15203010	NC_021164.1	Ca_kabuli_chr05	15203010	TT	CC	1946845729
SNP_P4_71351_15203049	NC_021164.1	Ca_kabuli_chr05	15203049	CC	TT	1946845731
SNP_P4_71352_15205030	NC_021164.1	Ca_kabuli_chr05	15205030	AA	GG	1946845733
SNP_P4_71353_15205033	NC_021164.1	Ca_kabuli_chr05	15205033	AA	CC	1946845735
SNP_P4_71354_15205070	NC_021164.1	Ca_kabuli_chr05	15205070	AA	GG	1946845737

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_71356_15205145	NC_021164.1	Ca_kabuli_chr05	15205145	GG	AA	1946845741
SNP_P4_71357_15205166	NC_021164.1	Ca_kabuli_chr05	15205166	CC	AA	1946845743
SNP_P4_71358_15205180	NC_021164.1	Ca_kabuli_chr05	15205180	CC	TT	1946845745
SNP_P4_71359_15205486	NC_021164.1	Ca_kabuli_chr05	15205486	TT	GG	1946845747
SNP_P4_71360_15205493	NC_021164.1	Ca_kabuli_chr05	15205493	AA	GG	1946845749
SNP_P4_71361_15205659	NC_021164.1	Ca_kabuli_chr05	15205659	GG	CC	1946845751
SNP_P4_71362_15205736	NC_021164.1	Ca_kabuli_chr05	15205736	TT	GG	1946845753
SNP_P4_71363_15205767	NC_021164.1	Ca_kabuli_chr05	15205767	GG	TT	1946845755
SNP_P4_71364_15205786	NC_021164.1	Ca_kabuli_chr05	15205786	TT	GG	1946845757
SNP_P4_71365_15234926	NC_021164.1	Ca_kabuli_chr05	15234926	CC	GG	1946845759
SNP_P4_71366_15286454	NC_021164.1	Ca_kabuli_chr05	15286454	TT	CC	1946845761
SNP_P4_71367_15295924	NC_021164.1	Ca_kabuli_chr05	15295924	CC	AA	1946845763
SNP_P4_71368_15331504	NC_021164.1	Ca_kabuli_chr05	15331504	CC	TT	1946845765
SNP_P4_71369_15331513	NC_021164.1	Ca_kabuli_chr05	15331513	CC	TT	1946845767
SNP_P4_71371_15362485	NC_021164.1	Ca_kabuli_chr05	15362485	TT	AA	1946845769
SNP_P4_71372_15362529	NC_021164.1	Ca_kabuli_chr05	15362529	GG	AA	1946845771
SNP_P4_71373_15363002	NC_021164.1	Ca_kabuli_chr05	15363002	TT	CC	1946845773
SNP_P4_71374_15363023	NC_021164.1	Ca_kabuli_chr05	15363023	CC	TT	1946845775
SNP_P4_71375_15363031	NC_021164.1	Ca_kabuli_chr05	15363031	TT	CC	1946845777
SNP_P4_71376_15417246	NC_021164.1	Ca_kabuli_chr05	15417246	CC	GG	1946845779
SNP_P4_71377_15417248	NC_021164.1	Ca_kabuli_chr05	15417248	GG	TT	1946845781
SNP_P4_71378_15417251	NC_021164.1	Ca_kabuli_chr05	15417251	AA	CC	1946845783
SNP_P4_71379_15417266	NC_021164.1	Ca_kabuli_chr05	15417266	TT	CC	1946845785
SNP_P4_71380_15417274	NC_021164.1	Ca_kabuli_chr05	15417274	CC	GG	1946845787
SNP_P4_71381_15417286	NC_021164.1	Ca_kabuli_chr05	15417286	TT	CC	1946845789
SNP_P4_71382_15417313	NC_021164.1	Ca_kabuli_chr05	15417313	GG	AA	1946845791
SNP_P4_71383_15417315	NC_021164.1	Ca_kabuli_chr05	15417315	TT	AA	1946845793
SNP_P4_71384_15417317	NC_021164.1	Ca_kabuli_chr05	15417317	TT	CC	1946845795
SNP_P4_71385_15417363	NC_021164.1	Ca_kabuli_chr05	15417363	TT	CC	1946845797
SNP_P4_71386_15417396	NC_021164.1	Ca_kabuli_chr05	15417396	AA	TT	1946845799
SNP_P4_71387_15417397	NC_021164.1	Ca_kabuli_chr05	15417397	CC	TT	1946845801
SNP_P4_71388_15417398	NC_021164.1	Ca_kabuli_chr05	15417398	AA	TT	1946845803
SNP_P4_71389_15417544	NC_021164.1	Ca_kabuli_chr05	15417544	CC	TT	1946845805
SNP_P4_71390_15417708	NC_021164.1	Ca_kabuli_chr05	15417708	AA	GG	1946845808
SNP_P4_71391_15417709	NC_021164.1	Ca_kabuli_chr05	15417709	AA	GG	1946845810
SNP_P4_71392_15417723	NC_021164.1	Ca_kabuli_chr05	15417723	GG	AA	1946845812
SNP_P4_71393_15417981	NC_021164.1	Ca_kabuli_chr05	15417981	CC	TT	1946845814
SNP_P4_71394_15422563	NC_021164.1	Ca_kabuli_chr05	15422563	CC	TT	1946845816
SNP_P4_71395_15422625	NC_021164.1	Ca_kabuli_chr05	15422625	TT	GG	1946845818
SNP_P4_71396_15422985	NC_021164.1	Ca_kabuli_chr05	15422985	AA	GG	1946845820
SNP_P4_71397_15424446	NC_021164.1	Ca_kabuli_chr05	15424446	TT	CC	1946845822

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_71399_15424561	NC_021164.1	Ca_kabuli_chr05	15424561	AA	GG	1946845826
SNP_P4_71400_15424586	NC_021164.1	Ca_kabuli_chr05	15424586	GG	CC	1946845828
SNP_P4_71401_15424626	NC_021164.1	Ca_kabuli_chr05	15424626	AA	GG	1946845830
SNP_P4_71402_15424649	NC_021164.1	Ca_kabuli_chr05	15424649	AA	GG	1946845832
SNP_P4_71403_15424705	NC_021164.1	Ca_kabuli_chr05	15424705	TT	GG	1946845834
SNP_P4_71404_15424728	NC_021164.1	Ca_kabuli_chr05	15424728	AA	GG	1946845836
SNP_P4_71405_15424737	NC_021164.1	Ca_kabuli_chr05	15424737	TT	AA	1946845838
SNP_P4_71406_15424974	NC_021164.1	Ca_kabuli_chr05	15424974	AA	GG	1946845840
SNP_P4_71407_15424997	NC_021164.1	Ca_kabuli_chr05	15424997	CC	AA	1946845842
SNP_P4_71408_15448131	NC_021164.1	Ca_kabuli_chr05	15448131	GG	AA	1946845844
SNP_P4_71411_15488007	NC_021164.1	Ca_kabuli_chr05	15488007	GG	AA	1946845846
SNP_P4_71412_15502367	NC_021164.1	Ca_kabuli_chr05	15502367	GG	AA	1946845848
SNP_P4_71413_15502761	NC_021164.1	Ca_kabuli_chr05	15502761	AA	CC	1946845850
SNP_P4_71414_15502783	NC_021164.1	Ca_kabuli_chr05	15502783	CC	TT	1946845852
SNP_P4_71415_15503457	NC_021164.1	Ca_kabuli_chr05	15503457	GG	AA	1946845854
SNP_P4_71416_15503474	NC_021164.1	Ca_kabuli_chr05	15503474	GG	AA	1946845856
SNP_P4_71417_15503491	NC_021164.1	Ca_kabuli_chr05	15503491	GG	AA	1946845858
SNP_P4_71418_15503801	NC_021164.1	Ca_kabuli_chr05	15503801	TT	CC	1946845860
SNP_P4_71420_15511389	NC_021164.1	Ca_kabuli_chr05	15511389	TT	AA	1946845862
SNP_P4_71421_15511983	NC_021164.1	Ca_kabuli_chr05	15511983	AA	GG	1946845864
SNP_P4_71422_15526431	NC_021164.1	Ca_kabuli_chr05	15526431	TT	AA	1946845866
SNP_P4_71423_15526439	NC_021164.1	Ca_kabuli_chr05	15526439	CC	TT	1946845868
SNP_P4_71424_15526483	NC_021164.1	Ca_kabuli_chr05	15526483	TT	CC	1946845870
SNP_P4_71425_15533821	NC_021164.1	Ca_kabuli_chr05	15533821	TT	AA	1946845872
SNP_P4_71426_15535240	NC_021164.1	Ca_kabuli_chr05	15535240	GG	AA	1946845874
SNP_P4_71427_15535289	NC_021164.1	Ca_kabuli_chr05	15535289	TT	GG	1946845876
SNP_P4_71428_15535303	NC_021164.1	Ca_kabuli_chr05	15535303	AA	CC	1946845878
SNP_P4_71429_15538001	NC_021164.1	Ca_kabuli_chr05	15538001	TT	CC	1946845880
SNP_P4_71430_15538008	NC_021164.1	Ca_kabuli_chr05	15538008	AA	GG	1946845882
SNP_P4_71432_15545994	NC_021164.1	Ca_kabuli_chr05	15545994	GG	AA	1946845884
SNP_P4_71433_15546009	NC_021164.1	Ca_kabuli_chr05	15546009	TT	CC	1946845886
SNP_P4_71434_15546277	NC_021164.1	Ca_kabuli_chr05	15546277	CC	AA	1946845888
SNP_P4_71435_15567759	NC_021164.1	Ca_kabuli_chr05	15567759	GG	AA	1946845890
SNP_P4_71436_15570698	NC_021164.1	Ca_kabuli_chr05	15570698	AA	GG	1946845892
SNP_P4_71437_15570724	NC_021164.1	Ca_kabuli_chr05	15570724	AA	GG	1946845894
SNP_P4_71438_15570853	NC_021164.1	Ca_kabuli_chr05	15570853	AA	GG	1946845896
SNP_P4_71439_15587146	NC_021164.1	Ca_kabuli_chr05	15587146	TT	AA	1946845898
SNP_P4_71440_15587166	NC_021164.1	Ca_kabuli_chr05	15587166	CC	TT	1946845900
SNP_P4_71441_15611358	NC_021164.1	Ca_kabuli_chr05	15611358	TT	GG	1946845902
SNP_P4_71442_15611418	NC_021164.1	Ca_kabuli_chr05	15611418	CC	AA	1946845904
SNP_P4_71443_15644966	NC_021164.1	Ca_kabuli_chr05	15644966	TT	AA	1946845906

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_71444_15644998	NC_021164.1	Ca_kabuli_chr05	15644998	AA	TT	1946845908
SNP_P4_71445_15668343	NC_021164.1	Ca_kabuli_chr05	15668343	AA	CC	1946845910
SNP_P4_71446_15689869	NC_021164.1	Ca_kabuli_chr05	15689869	TT	GG	1946845912
SNP_P4_71449_15729540	NC_021164.1	Ca_kabuli_chr05	15729540	GG	CC	1946845914
SNP_P4_71451_15741564	NC_021164.1	Ca_kabuli_chr05	15741564	TT	GG	1946845916
SNP_P4_71452_15754804	NC_021164.1	Ca_kabuli_chr05	15754804	CC	AA	1946845918
SNP_P4_71455_15784342	NC_021164.1	Ca_kabuli_chr05	15784342	TT	GG	1946845920
SNP_P4_71456_15795284	NC_021164.1	Ca_kabuli_chr05	15795284	AA	GG	1946845922
SNP_P4_71457_15803978	NC_021164.1	Ca_kabuli_chr05	15803978	AA	CC	1946845924
SNP_P4_71458_15815214	NC_021164.1	Ca_kabuli_chr05	15815214	AA	TT	1946845926
SNP_P4_71459_15835005	NC_021164.1	Ca_kabuli_chr05	15835005	CC	TT	1946845928
SNP_P4_71460_15835151	NC_021164.1	Ca_kabuli_chr05	15835151	CC	GG	1946845930
SNP_P4_71461_15835203	NC_021164.1	Ca_kabuli_chr05	15835203	CC	AA	1946845932
SNP_P4_71462_15835217	NC_021164.1	Ca_kabuli_chr05	15835217	AA	CC	1946845934
SNP_P4_71463_15835242	NC_021164.1	Ca_kabuli_chr05	15835242	TT	AA	1946845936
SNP_P4_71464_15835278	NC_021164.1	Ca_kabuli_chr05	15835278	TT	CC	1946845938
SNP_P4_71465_15835338	NC_021164.1	Ca_kabuli_chr05	15835338	AA	GG	1946845940
SNP_P4_71466_15835352	NC_021164.1	Ca_kabuli_chr05	15835352	TT	CC	1946845942
SNP_P4_71468_15862598	NC_021164.1	Ca_kabuli_chr05	15862598	TT	AA	1946845944
SNP_P4_71469_15875910	NC_021164.1	Ca_kabuli_chr05	15875910	AA	CC	1946845946
SNP_P4_71470_15876693	NC_021164.1	Ca_kabuli_chr05	15876693	AA	TT	1946845948
SNP_P4_71471_15876821	NC_021164.1	Ca_kabuli_chr05	15876821	CC	AA	1946845950
SNP_P4_71472_15876823	NC_021164.1	Ca_kabuli_chr05	15876823	GG	TT	1946845952
SNP_P4_71473_15876888	NC_021164.1	Ca_kabuli_chr05	15876888	AA	TT	1946845954
SNP_P4_71474_15876897	NC_021164.1	Ca_kabuli_chr05	15876897	AA	CC	1946845956
SNP_P4_71475_15877053	NC_021164.1	Ca_kabuli_chr05	15877053	GG	CC	1946845958
SNP_P4_71476_15877056	NC_021164.1	Ca_kabuli_chr05	15877056	GG	CC	1946845960
SNP_P4_71477_15877077	NC_021164.1	Ca_kabuli_chr05	15877077	AA	GG	1946845962
SNP_P4_71478_15877179	NC_021164.1	Ca_kabuli_chr05	15877179	GG	AA	1946845964
SNP_P4_71479_15877242	NC_021164.1	Ca_kabuli_chr05	15877242	TT	AA	1946845966
SNP_P4_71480_15877335	NC_021164.1	Ca_kabuli_chr05	15877335	TT	CC	1946845968
SNP_P4_71482_15877456	NC_021164.1	Ca_kabuli_chr05	15877456	GG	AA	1946845970
SNP_P4_71483_15885177	NC_021164.1	Ca_kabuli_chr05	15885177	AA	TT	1946845972
SNP_P4_71484_15891872	NC_021164.1	Ca_kabuli_chr05	15891872	GG	AA	1946845974
SNP_P4_71485_15893272	NC_021164.1	Ca_kabuli_chr05	15893272	GG	CC	1946845976
SNP_P4_71486_15893283	NC_021164.1	Ca_kabuli_chr05	15893283	TT	CC	1946845978
SNP_P4_71487_15893308	NC_021164.1	Ca_kabuli_chr05	15893308	CC	TT	1946845980
SNP_P4_71488_15893411	NC_021164.1	Ca_kabuli_chr05	15893411	CC	TT	1946845982
SNP_P4_71489_15894641	NC_021164.1	Ca_kabuli_chr05	15894641	AA	TT	1946845984
SNP_P4_71490_15894720	NC_021164.1	Ca_kabuli_chr05	15894720	TT	AA	1946845986
SNP_P4_71491_15894724	NC_021164.1	Ca_kabuli_chr05	15894724	AA	TT	1946845988
SNP_P4_71492_15894842	NC_021164.1	Ca_kabuli_chr05	15894842	TT	AA	1946845990

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_71494_15908469	NC_021164.1	Ca_kabuli_chr05	15908469	GG	TT	1946845994
SNP_P4_71495_15908479	NC_021164.1	Ca_kabuli_chr05	15908479	AA	CC	1946845996
SNP_P4_71496_15908497	NC_021164.1	Ca_kabuli_chr05	15908497	AA	GG	1946845998
SNP_P4_71497_15908509	NC_021164.1	Ca_kabuli_chr05	15908509	AA	GG	1946846000
SNP_P4_71498_15908521	NC_021164.1	Ca_kabuli_chr05	15908521	CC	TT	1946846002
SNP_P4_71499_15908523	NC_021164.1	Ca_kabuli_chr05	15908523	CC	TT	1946846004
SNP_P4_71500_15908535	NC_021164.1	Ca_kabuli_chr05	15908535	GG	AA	1946846006
SNP_P4_71501_15908546	NC_021164.1	Ca_kabuli_chr05	15908546	CC	TT	1946846008
SNP_P4_71502_15910607	NC_021164.1	Ca_kabuli_chr05	15910607	TT	CC	1946846010
SNP_P4_71503_15910620	NC_021164.1	Ca_kabuli_chr05	15910620	GG	AA	1946846012
SNP_P4_71504_15910628	NC_021164.1	Ca_kabuli_chr05	15910628	GG	AA	1946846014
SNP_P4_71505_15910634	NC_021164.1	Ca_kabuli_chr05	15910634	TT	CC	1946846016
SNP_P4_71506_15910869	NC_021164.1	Ca_kabuli_chr05	15910869	CC	AA	1946846018
SNP_P4_71507_15910947	NC_021164.1	Ca_kabuli_chr05	15910947	GG	AA	1946846020
SNP_P4_71508_15912222	NC_021164.1	Ca_kabuli_chr05	15912222	TT	AA	1946846022
SNP_P4_71509_15918447	NC_021164.1	Ca_kabuli_chr05	15918447	GG	AA	1946846024
SNP_P4_71511_15922251	NC_021164.1	Ca_kabuli_chr05	15922251	AA	GG	1946846026
SNP_P4_71512_15923733	NC_021164.1	Ca_kabuli_chr05	15923733	TT	CC	1946846028
SNP_P4_71513_15928680	NC_021164.1	Ca_kabuli_chr05	15928680	CC	GG	1946846030
SNP_P4_71515_15929285	NC_021164.1	Ca_kabuli_chr05	15929285	CC	TT	1946846032
SNP_P4_71516_15929288	NC_021164.1	Ca_kabuli_chr05	15929288	TT	AA	1946846034
SNP_P4_71517_15929317	NC_021164.1	Ca_kabuli_chr05	15929317	TT	CC	1946846036
SNP_P4_71519_15929590	NC_021164.1	Ca_kabuli_chr05	15929590	AA	GG	1946846038
SNP_P4_71520_15929617	NC_021164.1	Ca_kabuli_chr05	15929617	AA	CC	1946846040
SNP_P4_71521_15929658	NC_021164.1	Ca_kabuli_chr05	15929658	AA	TT	1946846042
SNP_P4_71522_15929716	NC_021164.1	Ca_kabuli_chr05	15929716	AA	CC	1946846044
SNP_P4_71523_15931178	NC_021164.1	Ca_kabuli_chr05	15931178	AA	GG	1946846046
SNP_P4_71524_15931556	NC_021164.1	Ca_kabuli_chr05	15931556	TT	AA	1946846048
SNP_P4_71525_15931594	NC_021164.1	Ca_kabuli_chr05	15931594	AA	TT	1946846050
SNP_P4_71526_15936778	NC_021164.1	Ca_kabuli_chr05	15936778	CC	TT	1946846052
SNP_P4_71527_15938554	NC_021164.1	Ca_kabuli_chr05	15938554	AA	TT	1946846054
SNP_P4_71528_15956833	NC_021164.1	Ca_kabuli_chr05	15956833	AA	CC	1946846056
SNP_P4_71529_15957391	NC_021164.1	Ca_kabuli_chr05	15957391	CC	TT	1946846058
SNP_P4_71530_15957631	NC_021164.1	Ca_kabuli_chr05	15957631	CC	AA	1946846060
SNP_P4_71531_15957678	NC_021164.1	Ca_kabuli_chr05	15957678	GG	AA	1946846062
SNP_P4_71533_16005498	NC_021164.1	Ca_kabuli_chr05	16005498	TT	CC	1946846064
SNP_P4_71534_16005551	NC_021164.1	Ca_kabuli_chr05	16005551	TT	CC	1946846066
SNP_P4_71535_16022067	NC_021164.1	Ca_kabuli_chr05	16022067	TT	CC	1946846068
SNP_P4_71536_16022568	NC_021164.1	Ca_kabuli_chr05	16022568	TT	AA	1946846070
SNP_P4_71537_16022728	NC_021164.1	Ca_kabuli_chr05	16022728	TT	CC	1946846072
SNP_P4_71538_16022785	NC_021164.1	Ca_kabuli_chr05	16022785	TT	CC	1946846074

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_71540_16022822	NC_021164.1	Ca_kabuli_chr05	16022822	GG	AA	1946846078
SNP_P4_71542_16083111	NC_021164.1	Ca_kabuli_chr05	16083111	CC	AA	1946846080
SNP_P4_71543_16083241	NC_021164.1	Ca_kabuli_chr05	16083241	AA	GG	1946846082
SNP_P4_71544_16083267	NC_021164.1	Ca_kabuli_chr05	16083267	GG	AA	1946846084
SNP_P4_71546_16083460	NC_021164.1	Ca_kabuli_chr05	16083460	TT	CC	1946846086
SNP_P4_71547_16083503	NC_021164.1	Ca_kabuli_chr05	16083503	TT	GG	1946846088
SNP_P4_71548_16083504	NC_021164.1	Ca_kabuli_chr05	16083504	TT	CC	1946846090
SNP_P4_71549_16083549	NC_021164.1	Ca_kabuli_chr05	16083549	TT	AA	1946846092
SNP_P4_71550_16083613	NC_021164.1	Ca_kabuli_chr05	16083613	AA	GG	1946846094
SNP_P4_71551_16089552	NC_021164.1	Ca_kabuli_chr05	16089552	AA	GG	1946846096
SNP_P4_71552_16089901	NC_021164.1	Ca_kabuli_chr05	16089901	TT	CC	1946846098
SNP_P4_71553_16113319	NC_021164.1	Ca_kabuli_chr05	16113319	TT	CC	1946846100
SNP_P4_71554_16113395	NC_021164.1	Ca_kabuli_chr05	16113395	TT	CC	1946846102
SNP_P4_71555_16113583	NC_021164.1	Ca_kabuli_chr05	16113583	TT	CC	1946846104
SNP_P4_71556_16113585	NC_021164.1	Ca_kabuli_chr05	16113585	GG	CC	1946846106
SNP_P4_71557_16113600	NC_021164.1	Ca_kabuli_chr05	16113600	CC	TT	1946846108
SNP_P4_71558_16113664	NC_021164.1	Ca_kabuli_chr05	16113664	TT	CC	1946846110
SNP_P4_71559_16115274	NC_021164.1	Ca_kabuli_chr05	16115274	CC	TT	1946846112
SNP_P4_71561_16152144	NC_021164.1	Ca_kabuli_chr05	16152144	GG	TT	1946846114
SNP_P4_71562_16152239	NC_021164.1	Ca_kabuli_chr05	16152239	GG	AA	1946846116
SNP_P4_71563_16152299	NC_021164.1	Ca_kabuli_chr05	16152299	AA	TT	1946846118
SNP_P4_71564_16152304	NC_021164.1	Ca_kabuli_chr05	16152304	GG	TT	1946846120
SNP_P4_71565_16152338	NC_021164.1	Ca_kabuli_chr05	16152338	TT	CC	1946846122
SNP_P4_71566_16152340	NC_021164.1	Ca_kabuli_chr05	16152340	AA	GG	1946846124
SNP_P4_71567_16152444	NC_021164.1	Ca_kabuli_chr05	16152444	TT	CC	1946846126
SNP_P4_71568_16199625	NC_021164.1	Ca_kabuli_chr05	16199625	CC	TT	1946846128
SNP_P4_71569_16203643	NC_021164.1	Ca_kabuli_chr05	16203643	GG	AA	1946846130
SNP_P4_71570_16230576	NC_021164.1	Ca_kabuli_chr05	16230576	AA	CC	1946846132
SNP_P4_71571_16230599	NC_021164.1	Ca_kabuli_chr05	16230599	TT	CC	1946846134
SNP_P4_71572_16230633	NC_021164.1	Ca_kabuli_chr05	16230633	CC	AA	1946846136
SNP_P4_71573_16294887	NC_021164.1	Ca_kabuli_chr05	16294887	AA	GG	1946846138
SNP_P4_71574_16319742	NC_021164.1	Ca_kabuli_chr05	16319742	TT	CC	1946846140
SNP_P4_71575_16319897	NC_021164.1	Ca_kabuli_chr05	16319897	GG	CC	1946846142
SNP_P4_71577_16320123	NC_021164.1	Ca_kabuli_chr05	16320123	AA	CC	1946846144
SNP_P4_71578_16322032	NC_021164.1	Ca_kabuli_chr05	16322032	AA	GG	1946846146
SNP_P4_71579_16322048	NC_021164.1	Ca_kabuli_chr05	16322048	AA	TT	1946846148
SNP_P4_71580_16322082	NC_021164.1	Ca_kabuli_chr05	16322082	TT	CC	1946846150
SNP_P4_71581_16340492	NC_021164.1	Ca_kabuli_chr05	16340492	GG	AA	1946846152
SNP_P4_71582_16340525	NC_021164.1	Ca_kabuli_chr05	16340525	AA	TT	1946846155
SNP_P4_71583_16341179	NC_021164.1	Ca_kabuli_chr05	16341179	TT	AA	1946846157
SNP_P4_71584_16361302	NC_021164.1	Ca_kabuli_chr05	16361302	GG	AA	1946846159

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_71585_16361368	NC_021164.1	Ca_kabuli_chr05	16361368	AA	GG	1946846161
SNP_P4_71586_16361532	NC_021164.1	Ca_kabuli_chr05	16361532	GG	AA	1946846163
SNP_P4_71587_16361637	NC_021164.1	Ca_kabuli_chr05	16361637	TT	CC	1946846165
SNP_P4_71588_16361640	NC_021164.1	Ca_kabuli_chr05	16361640	AA	TT	1946846167
SNP_P4_71589_16365729	NC_021164.1	Ca_kabuli_chr05	16365729	AA	GG	1946846169
SNP_P4_71590_16369783	NC_021164.1	Ca_kabuli_chr05	16369783	CC	TT	1946846171
SNP_P4_71591_16396119	NC_021164.1	Ca_kabuli_chr05	16396119	GG	AA	1946846173
SNP_P4_71593_16429580	NC_021164.1	Ca_kabuli_chr05	16429580	GG	TT	1946846175
SNP_P4_71594_16429607	NC_021164.1	Ca_kabuli_chr05	16429607	AA	CC	1946846177
SNP_P4_71595_16431636	NC_021164.1	Ca_kabuli_chr05	16431636	AA	CC	1946846179
SNP_P4_71597_16487834	NC_021164.1	Ca_kabuli_chr05	16487834	AA	CC	1946846181
SNP_P4_71598_16487836	NC_021164.1	Ca_kabuli_chr05	16487836	AA	TT	1946846183
SNP_P4_71599_16490126	NC_021164.1	Ca_kabuli_chr05	16490126	GG	AA	1946846185
SNP_P4_71600_16492243	NC_021164.1	Ca_kabuli_chr05	16492243	AA	CC	1946846187
SNP_P4_71601_16494096	NC_021164.1	Ca_kabuli_chr05	16494096	AA	GG	1946846189
SNP_P4_71602_16500064	NC_021164.1	Ca_kabuli_chr05	16500064	TT	CC	1946846191
SNP_P4_71603_16507256	NC_021164.1	Ca_kabuli_chr05	16507256	AA	CC	1946846193
SNP_P4_71604_16508337	NC_021164.1	Ca_kabuli_chr05	16508337	GG	CC	1946846195
SNP_P4_71608_16551859	NC_021164.1	Ca_kabuli_chr05	16551859	TT	CC	1946846197
SNP_P4_71609_16552298	NC_021164.1	Ca_kabuli_chr05	16552298	AA	GG	1946846199
SNP_P4_71610_16552310	NC_021164.1	Ca_kabuli_chr05	16552310	TT	AA	1946846201
SNP_P4_71612_16616871	NC_021164.1	Ca_kabuli_chr05	16616871	GG	AA	1946846203
SNP_P4_71613_16636111	NC_021164.1	Ca_kabuli_chr05	16636111	AA	GG	1946846205
SNP_P4_71615_16649867	NC_021164.1	Ca_kabuli_chr05	16649867	CC	TT	1946846207
SNP_P4_71616_16649904	NC_021164.1	Ca_kabuli_chr05	16649904	CC	AA	1946846209
SNP_P4_71617_16649946	NC_021164.1	Ca_kabuli_chr05	16649946	GG	AA	1946846211
SNP_P4_71619_16650646	NC_021164.1	Ca_kabuli_chr05	16650646	AA	GG	1946846213
SNP_P4_71620_16650668	NC_021164.1	Ca_kabuli_chr05	16650668	GG	AA	1946846215
SNP_P4_71621_16650859	NC_021164.1	Ca_kabuli_chr05	16650859	CC	GG	1946846217
SNP_P4_71622_16651514	NC_021164.1	Ca_kabuli_chr05	16651514	TT	GG	1946846219
SNP_P4_71623_16651521	NC_021164.1	Ca_kabuli_chr05	16651521	TT	CC	1946846221
SNP_P4_71624_16658326	NC_021164.1	Ca_kabuli_chr05	16658326	AA	CC	1946846223
SNP_P4_71625_16663245	NC_021164.1	Ca_kabuli_chr05	16663245	AA	GG	1946846225
SNP_P4_71626_16667273	NC_021164.1	Ca_kabuli_chr05	16667273	GG	AA	1946846227
SNP_P4_71627_16684531	NC_021164.1	Ca_kabuli_chr05	16684531	GG	CC	1946846229
SNP_P4_71628_16703325	NC_021164.1	Ca_kabuli_chr05	16703325	TT	CC	1946846231
SNP_P4_71629_16703465	NC_021164.1	Ca_kabuli_chr05	16703465	AA	GG	1946846233
SNP_P4_71630_16703469	NC_021164.1	Ca_kabuli_chr05	16703469	AA	GG	1946846235
SNP_P4_71631_16703494	NC_021164.1	Ca_kabuli_chr05	16703494	TT	CC	1946846237
SNP_P4_71632_16703529	NC_021164.1	Ca_kabuli_chr05	16703529	TT	GG	1946846239
SNP_P4_71633_16703531	NC_021164.1	Ca_kabuli_chr05	16703531	AA	CC	1946846241
SNP_P4_71634_16703546	NC_021164.1	Ca_kabuli_chr05	16703546	TT	GG	1946846243

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_71636_16703701	NC_021164.1	Ca_kabuli_chr05	16703701	TT	CC	1946846247
SNP_P4_71639_16727592	NC_021164.1	Ca_kabuli_chr05	16727592	TT	CC	1946846249
SNP_P4_71640_16730064	NC_021164.1	Ca_kabuli_chr05	16730064	GG	AA	1946846251
SNP_P4_71642_16765983	NC_021164.1	Ca_kabuli_chr05	16765983	CC	TT	1946846253
SNP_P4_71643_16766060	NC_021164.1	Ca_kabuli_chr05	16766060	GG	TT	1946846255
SNP_P4_71644_16766128	NC_021164.1	Ca_kabuli_chr05	16766128	TT	AA	1946846257
SNP_P4_71645_16766130	NC_021164.1	Ca_kabuli_chr05	16766130	AA	TT	1946846259
SNP_P4_71646_16766132	NC_021164.1	Ca_kabuli_chr05	16766132	TT	AA	1946846261
SNP_P4_71647_16766167	NC_021164.1	Ca_kabuli_chr05	16766167	CC	GG	1946846263
SNP_P4_71648_16766290	NC_021164.1	Ca_kabuli_chr05	16766290	GG	AA	1946846265
SNP_P4_71649_16766978	NC_021164.1	Ca_kabuli_chr05	16766978	AA	TT	1946846267
SNP_P4_71650_16767958	NC_021164.1	Ca_kabuli_chr05	16767958	GG	TT	1946846269
SNP_P4_71651_16767965	NC_021164.1	Ca_kabuli_chr05	16767965	AA	GG	1946846271
SNP_P4_71652_16814475	NC_021164.1	Ca_kabuli_chr05	16814475	AA	CC	1946846273
SNP_P4_71653_16821291	NC_021164.1	Ca_kabuli_chr05	16821291	GG	AA	1946846275
SNP_P4_71654_16821294	NC_021164.1	Ca_kabuli_chr05	16821294	CC	TT	1946846277
SNP_P4_71655_16821310	NC_021164.1	Ca_kabuli_chr05	16821310	CC	TT	1946846279
SNP_P4_71656_16821365	NC_021164.1	Ca_kabuli_chr05	16821365	GG	TT	1946846281
SNP_P4_71657_16821405	NC_021164.1	Ca_kabuli_chr05	16821405	CC	GG	1946846283
SNP_P4_71658_16821412	NC_021164.1	Ca_kabuli_chr05	16821412	GG	AA	1946846285
SNP_P4_71659_16854591	NC_021164.1	Ca_kabuli_chr05	16854591	GG	TT	1946846287
SNP_P4_71660_16863622	NC_021164.1	Ca_kabuli_chr05	16863622	AA	GG	1946846289
SNP_P4_71661_16863646	NC_021164.1	Ca_kabuli_chr05	16863646	TT	CC	1946846291
SNP_P4_71662_16863799	NC_021164.1	Ca_kabuli_chr05	16863799	AA	CC	1946846293
SNP_P4_71663_16863986	NC_021164.1	Ca_kabuli_chr05	16863986	TT	CC	1946846295
SNP_P4_71664_16865795	NC_021164.1	Ca_kabuli_chr05	16865795	CC	TT	1946846297
SNP_P4_71665_16878790	NC_021164.1	Ca_kabuli_chr05	16878790	AA	CC	1946846299
SNP_P4_71667_16916776	NC_021164.1	Ca_kabuli_chr05	16916776	GG	TT	1946846301
SNP_P4_71668_16920589	NC_021164.1	Ca_kabuli_chr05	16920589	CC	TT	1946846303
SNP_P4_71669_16924382	NC_021164.1	Ca_kabuli_chr05	16924382	AA	TT	1946846305
SNP_P4_71670_16944978	NC_021164.1	Ca_kabuli_chr05	16944978	AA	TT	1946846307
SNP_P4_71672_16948672	NC_021164.1	Ca_kabuli_chr05	16948672	AA	CC	1946846309
SNP_P4_71673_16949252	NC_021164.1	Ca_kabuli_chr05	16949252	AA	GG	1946846311
SNP_P4_71674_16952591	NC_021164.1	Ca_kabuli_chr05	16952591	GG	TT	1946846313
SNP_P4_71675_16957693	NC_021164.1	Ca_kabuli_chr05	16957693	TT	AA	1946846315
SNP_P4_71676_16957706	NC_021164.1	Ca_kabuli_chr05	16957706	GG	AA	1946846317
SNP_P4_71677_16958100	NC_021164.1	Ca_kabuli_chr05	16958100	GG	AA	1946846319
SNP_P4_71678_16995629	NC_021164.1	Ca_kabuli_chr05	16995629	CC	TT	1946846321
SNP_P4_71679_17007180	NC_021164.1	Ca_kabuli_chr05	17007180	AA	GG	1946846323
SNP_P4_71681_17012385	NC_021164.1	Ca_kabuli_chr05	17012385	GG	AA	1946846325
SNP_P4_71682_17012411	NC_021164.1	Ca_kabuli_chr05	17012411	AA	GG	1946846327

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_71684_17012608	NC_021164.1	Ca_kabuli_chr05	17012608	GG	AA	1946846331
SNP_P4_71685_17012635	NC_021164.1	Ca_kabuli_chr05	17012635	TT	CC	1946846333
SNP_P4_71686_17012653	NC_021164.1	Ca_kabuli_chr05	17012653	AA	GG	1946846335
SNP_P4_71687_17012665	NC_021164.1	Ca_kabuli_chr05	17012665	GG	AA	1946846337
SNP_P4_71688_17012686	NC_021164.1	Ca_kabuli_chr05	17012686	TT	AA	1946846339
SNP_P4_71689_17012701	NC_021164.1	Ca_kabuli_chr05	17012701	CC	TT	1946846341
SNP_P4_71690_17012708	NC_021164.1	Ca_kabuli_chr05	17012708	CC	TT	1946846343
SNP_P4_71691_17012740	NC_021164.1	Ca_kabuli_chr05	17012740	AA	GG	1946846345
SNP_P4_71692_17012749	NC_021164.1	Ca_kabuli_chr05	17012749	CC	TT	1946846347
SNP_P4_71693_17012751	NC_021164.1	Ca_kabuli_chr05	17012751	AA	GG	1946846349
SNP_P4_71694_17020456	NC_021164.1	Ca_kabuli_chr05	17020456	GG	AA	1946846351
SNP_P4_71695_17020542	NC_021164.1	Ca_kabuli_chr05	17020542	TT	CC	1946846353
SNP_P4_71697_17035780	NC_021164.1	Ca_kabuli_chr05	17035780	GG	AA	1946846356
SNP_P4_71699_17056653	NC_021164.1	Ca_kabuli_chr05	17056653	TT	GG	1946846358
SNP_P4_71700_17062623	NC_021164.1	Ca_kabuli_chr05	17062623	TT	GG	1946846360
SNP_P4_71701_17062990	NC_021164.1	Ca_kabuli_chr05	17062990	CC	TT	1946846362
SNP_P4_71702_17063013	NC_021164.1	Ca_kabuli_chr05	17063013	AA	GG	1946846364
SNP_P4_71703_17063047	NC_021164.1	Ca_kabuli_chr05	17063047	AA	GG	1946846367
SNP_P4_71704_17063048	NC_021164.1	Ca_kabuli_chr05	17063048	AA	GG	1946846369
SNP_P4_71705_17063068	NC_021164.1	Ca_kabuli_chr05	17063068	AA	GG	1946846371
SNP_P4_71706_17063074	NC_021164.1	Ca_kabuli_chr05	17063074	GG	AA	1946846373
SNP_P4_71707_17063092	NC_021164.1	Ca_kabuli_chr05	17063092	TT	CC	1946846376
SNP_P4_71708_17063121	NC_021164.1	Ca_kabuli_chr05	17063121	AA	GG	1946846378
SNP_P4_71709_17063129	NC_021164.1	Ca_kabuli_chr05	17063129	TT	AA	1946846380
SNP_P4_71710_17063150	NC_021164.1	Ca_kabuli_chr05	17063150	AA	GG	1946846382
SNP_P4_71711_17084748	NC_021164.1	Ca_kabuli_chr05	17084748	AA	TT	1946846384
SNP_P4_71713_17153648	NC_021164.1	Ca_kabuli_chr05	17153648	CC	TT	1946846386
SNP_P4_71714_17154856	NC_021164.1	Ca_kabuli_chr05	17154856	TT	CC	1946846388
SNP_P4_71715_17163637	NC_021164.1	Ca_kabuli_chr05	17163637	TT	AA	1946846390
SNP_P4_71716_17171749	NC_021164.1	Ca_kabuli_chr05	17171749	TT	CC	1946846392
SNP_P4_71717_17212909	NC_021164.1	Ca_kabuli_chr05	17212909	GG	AA	1946846394
SNP_P4_71718_17212939	NC_021164.1	Ca_kabuli_chr05	17212939	GG	CC	1946846397
SNP_P4_71719_17212941	NC_021164.1	Ca_kabuli_chr05	17212941	TT	CC	1946846399
SNP_P4_71720_17212959	NC_021164.1	Ca_kabuli_chr05	17212959	GG	AA	1946846401
SNP_P4_71721_17233803	NC_021164.1	Ca_kabuli_chr05	17233803	AA	GG	1946846403
SNP_P4_71722_17233854	NC_021164.1	Ca_kabuli_chr05	17233854	AA	TT	1946846405
SNP_P4_71723_17233872	NC_021164.1	Ca_kabuli_chr05	17233872	CC	TT	1946846407
SNP_P4_71724_17233881	NC_021164.1	Ca_kabuli_chr05	17233881	CC	TT	1946846409
SNP_P4_71725_17233897	NC_021164.1	Ca_kabuli_chr05	17233897	AA	GG	1946846412
SNP_P4_71726_17233907	NC_021164.1	Ca_kabuli_chr05	17233907	GG	AA	1946846414
SNP_P4_71727_17233968	NC_021164.1	Ca_kabuli_chr05	17233968	AA	GG	1946846416

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_71730_17233995	NC_021164.1	Ca_kabuli_chr05	17233995	AA	GG	1946846422
SNP_P4_71731_17234235	NC_021164.1	Ca_kabuli_chr05	17234235	CC	TT	1946846424
SNP_P4_71732_17234361	NC_021164.1	Ca_kabuli_chr05	17234361	CC	AA	1946846426
SNP_P4_71733_17234362	NC_021164.1	Ca_kabuli_chr05	17234362	AA	GG	1946846428
SNP_P4_71734_17234464	NC_021164.1	Ca_kabuli_chr05	17234464	AA	GG	1946846430
SNP_P4_71735_17234704	NC_021164.1	Ca_kabuli_chr05	17234704	GG	AA	1946846432
SNP_P4_71736_17234740	NC_021164.1	Ca_kabuli_chr05	17234740	TT	CC	1946846435
SNP_P4_71737_17234746	NC_021164.1	Ca_kabuli_chr05	17234746	GG	AA	1946846437
SNP_P4_71738_17239539	NC_021164.1	Ca_kabuli_chr05	17239539	CC	TT	1946846439
SNP_P4_71739_17239623	NC_021164.1	Ca_kabuli_chr05	17239623	GG	AA	1946846441
SNP_P4_71740_17241041	NC_021164.1	Ca_kabuli_chr05	17241041	GG	AA	1946846443
SNP_P4_71741_17242922	NC_021164.1	Ca_kabuli_chr05	17242922	AA	GG	1946846445
SNP_P4_71742_17242964	NC_021164.1	Ca_kabuli_chr05	17242964	TT	CC	1946846447
SNP_P4_71743_17244321	NC_021164.1	Ca_kabuli_chr05	17244321	AA	TT	1946846449
SNP_P4_71745_17248815	NC_021164.1	Ca_kabuli_chr05	17248815	CC	TT	1946846451
SNP_P4_71746_17254721	NC_021164.1	Ca_kabuli_chr05	17254721	TT	GG	1946846453
SNP_P4_71747_17254791	NC_021164.1	Ca_kabuli_chr05	17254791	TT	CC	1946846455
SNP_P4_71748_17254825	NC_021164.1	Ca_kabuli_chr05	17254825	TT	AA	1946846457
SNP_P4_71749_17255086	NC_021164.1	Ca_kabuli_chr05	17255086	AA	CC	1946846459
SNP_P4_71750_17258956	NC_021164.1	Ca_kabuli_chr05	17258956	GG	CC	1946846461
SNP_P4_71751_17289859	NC_021164.1	Ca_kabuli_chr05	17289859	CC	TT	1946846463
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SNP_P4_71753_17303939	NC_021164.1	Ca_kabuli_chr05	17303939	TT	AA	1946846467
SNP_P4_71755_17321708	NC_021164.1	Ca_kabuli_chr05	17321708	CC	TT	1946846469
SNP_P4_71756_17321710	NC_021164.1	Ca_kabuli_chr05	17321710	GG	AA	1946846471
SNP_P4_71757_17323606	NC_021164.1	Ca_kabuli_chr05	17323606	TT	CC	1946846473
SNP_P4_71758_17323751	NC_021164.1	Ca_kabuli_chr05	17323751	GG	AA	1946846475
SNP_P4_71759_17323827	NC_021164.1	Ca_kabuli_chr05	17323827	AA	GG	1946846477
SNP_P4_71760_17324019	NC_021164.1	Ca_kabuli_chr05	17324019	AA	CC	1946846479
SNP_P4_71761_17324100	NC_021164.1	Ca_kabuli_chr05	17324100	AA	TT	1946846481
SNP_P4_71762_17324102	NC_021164.1	Ca_kabuli_chr05	17324102	TT	GG	1946846483
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SNP_P4_71764_17324113	NC_021164.1	Ca_kabuli_chr05	17324113	AA	TT	1946846487
SNP_P4_71765_17324168	NC_021164.1	Ca_kabuli_chr05	17324168	GG	TT	1946846489
SNP_P4_71766_17324224	NC_021164.1	Ca_kabuli_chr05	17324224	TT	CC	1946846491
SNP_P4_71767_17369906	NC_021164.1	Ca_kabuli_chr05	17369906	CC	TT	1946846493
SNP_P4_71768_17369907	NC_021164.1	Ca_kabuli_chr05	17369907	GG	AA	1946846495
SNP_P4_71769_17369908	NC_021164.1	Ca_kabuli_chr05	17369908	AA	TT	1946846497
SNP_P4_71770_17369910	NC_021164.1	Ca_kabuli_chr05	17369910	AA	GG	1946846499
SNP_P4_71771_17369931	NC_021164.1	Ca_kabuli_chr05	17369931	AA	GG	1946846501

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_71774_17382597	NC_021164.1	Ca_kabuli_chr05	17382597	AA	GG	1946846507
SNP_P4_71776_17450330	NC_021164.1	Ca_kabuli_chr05	17450330	AA	TT	1946846509
SNP_P4_71777_17463174	NC_021164.1	Ca_kabuli_chr05	17463174	AA	GG	1946846511
SNP_P4_71778_17463259	NC_021164.1	Ca_kabuli_chr05	17463259	AA	GG	1946846513
SNP_P4_71779_17473825	NC_021164.1	Ca_kabuli_chr05	17473825	TT	CC	1946846515
SNP_P4_71780_17474044	NC_021164.1	Ca_kabuli_chr05	17474044	CC	GG	1946846517
SNP_P4_71781_17474216	NC_021164.1	Ca_kabuli_chr05	17474216	TT	CC	1946846519
SNP_P4_71782_17482654	NC_021164.1	Ca_kabuli_chr05	17482654	AA	GG	1946846521
SNP_P4_71783_17494731	NC_021164.1	Ca_kabuli_chr05	17494731	AA	CC	1946846523
SNP_P4_71784_17494742	NC_021164.1	Ca_kabuli_chr05	17494742	TT	GG	1946846525
SNP_P4_71785_17494750	NC_021164.1	Ca_kabuli_chr05	17494750	GG	AA	1946846527
SNP_P4_71786_17494840	NC_021164.1	Ca_kabuli_chr05	17494840	AA	GG	1946846529
SNP_P4_71788_17494898	NC_021164.1	Ca_kabuli_chr05	17494898	AA	GG	1946846531
SNP_P4_71789_17495060	NC_021164.1	Ca_kabuli_chr05	17495060	AA	GG	1946846533
SNP_P4_71790_17505399	NC_021164.1	Ca_kabuli_chr05	17505399	GG	CC	1946846535
SNP_P4_71791_17510319	NC_021164.1	Ca_kabuli_chr05	17510319	CC	TT	1946846537
SNP_P4_71792_17512926	NC_021164.1	Ca_kabuli_chr05	17512926	GG	AA	1946846539
SNP_P4_71793_17512978	NC_021164.1	Ca_kabuli_chr05	17512978	TT	AA	1946846541
SNP_P4_71794_17526678	NC_021164.1	Ca_kabuli_chr05	17526678	AA	TT	1946846543
SNP_P4_71796_17526907	NC_021164.1	Ca_kabuli_chr05	17526907	CC	TT	1946846545
SNP_P4_71797_17526910	NC_021164.1	Ca_kabuli_chr05	17526910	TT	CC	1946846547
SNP_P4_71798_17526919	NC_021164.1	Ca_kabuli_chr05	17526919	CC	TT	1946846549
SNP_P4_71799_17526949	NC_021164.1	Ca_kabuli_chr05	17526949	AA	CC	1946846551
SNP_P4_71801_17542381	NC_021164.1	Ca_kabuli_chr05	17542381	TT	CC	1946846553
SNP_P4_71802_17542853	NC_021164.1	Ca_kabuli_chr05	17542853	AA	TT	1946846555
SNP_P4_71803_17543055	NC_021164.1	Ca_kabuli_chr05	17543055	GG	AA	1946846557
SNP_P4_71804_17543069	NC_021164.1	Ca_kabuli_chr05	17543069	AA	TT	1946846558
SNP_P4_71806_17572985	NC_021164.1	Ca_kabuli_chr05	17572985	AA	CC	1946846559
SNP_P4_71807_17575494	NC_021164.1	Ca_kabuli_chr05	17575494	CC	TT	1946846561
SNP_P4_71808_17575508	NC_021164.1	Ca_kabuli_chr05	17575508	CC	TT	1946846563
SNP_P4_71809_17575524	NC_021164.1	Ca_kabuli_chr05	17575524	AA	CC	1946846565
SNP_P4_71810_17575527	NC_021164.1	Ca_kabuli_chr05	17575527	AA	GG	1946846567
SNP_P4_71811_17595567	NC_021164.1	Ca_kabuli_chr05	17595567	GG	AA	1946846569
SNP_P4_71812_17595576	NC_021164.1	Ca_kabuli_chr05	17595576	TT	GG	1946846571
SNP_P4_71813_17595606	NC_021164.1	Ca_kabuli_chr05	17595606	TT	CC	1946846573
SNP_P4_71814_17595840	NC_021164.1	Ca_kabuli_chr05	17595840	AA	GG	1946846575
SNP_P4_71815_17595909	NC_021164.1	Ca_kabuli_chr05	17595909	AA	CC	1946846577
SNP_P4_71816_17596219	NC_021164.1	Ca_kabuli_chr05	17596219	CC	TT	1946846579
SNP_P4_71817_17612217	NC_021164.1	Ca_kabuli_chr05	17612217	TT	AA	1946846581
SNP_P4_71818_17612347	NC_021164.1	Ca_kabuli_chr05	17612347	TT	AA	1946846583

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_71819_17612381	NC_021164.1	Ca_kabuli_chr05	17612381	AA	GG	1946846585
SNP_P4_71820_17612405	NC_021164.1	Ca_kabuli_chr05	17612405	CC	AA	1946846587
SNP_P4_71821_17612495	NC_021164.1	Ca_kabuli_chr05	17612495	CC	TT	1946846589
SNP_P4_71822_17612559	NC_021164.1	Ca_kabuli_chr05	17612559	GG	AA	1946846591
SNP_P4_71823_17612664	NC_021164.1	Ca_kabuli_chr05	17612664	CC	TT	1946846593
SNP_P4_71824_17612680	NC_021164.1	Ca_kabuli_chr05	17612680	TT	AA	1946846595
SNP_P4_71825_17612718	NC_021164.1	Ca_kabuli_chr05	17612718	TT	AA	1946846597
SNP_P4_71826_17612758	NC_021164.1	Ca_kabuli_chr05	17612758	AA	GG	1946846599
SNP_P4_71827_17630967	NC_021164.1	Ca_kabuli_chr05	17630967	AA	GG	1946846601
SNP_P4_71828_17633202	NC_021164.1	Ca_kabuli_chr05	17633202	AA	GG	1946846603
SNP_P4_71829_17634057	NC_021164.1	Ca_kabuli_chr05	17634057	AA	CC	1946846605
SNP_P4_71830_17672076	NC_021164.1	Ca_kabuli_chr05	17672076	CC	GG	1946846607
SNP_P4_71831_17672092	NC_021164.1	Ca_kabuli_chr05	17672092	GG	AA	1946846609
SNP_P4_71832_17672137	NC_021164.1	Ca_kabuli_chr05	17672137	AA	GG	1946846611
SNP_P4_71833_17672148	NC_021164.1	Ca_kabuli_chr05	17672148	TT	CC	1946846613
SNP_P4_71834_17672406	NC_021164.1	Ca_kabuli_chr05	17672406	GG	AA	1946846616
SNP_P4_71835_17672420	NC_021164.1	Ca_kabuli_chr05	17672420	TT	CC	1946846618
SNP_P4_71836_17693889	NC_021164.1	Ca_kabuli_chr05	17693889	TT	CC	1946846621
SNP_P4_71837_17693891	NC_021164.1	Ca_kabuli_chr05	17693891	TT	CC	1946846623
SNP_P4_71838_17693892	NC_021164.1	Ca_kabuli_chr05	17693892	TT	CC	1946846625
SNP_P4_71839_17693909	NC_021164.1	Ca_kabuli_chr05	17693909	CC	TT	1946846627
SNP_P4_71840_17693922	NC_021164.1	Ca_kabuli_chr05	17693922	CC	AA	1946846629
SNP_P4_71841_17694000	NC_021164.1	Ca_kabuli_chr05	17694000	GG	TT	1946846631
SNP_P4_71842_17694337	NC_021164.1	Ca_kabuli_chr05	17694337	AA	CC	1946846633
SNP_P4_71843_17694346	NC_021164.1	Ca_kabuli_chr05	17694346	TT	AA	1946846635
SNP_P4_71844_17694373	NC_021164.1	Ca_kabuli_chr05	17694373	AA	CC	1946846637
SNP_P4_71845_17699826	NC_021164.1	Ca_kabuli_chr05	17699826	CC	TT	1946846639
SNP_P4_71846_17703790	NC_021164.1	Ca_kabuli_chr05	17703790	TT	CC	1946846641
SNP_P4_71847_17711802	NC_021164.1	Ca_kabuli_chr05	17711802	GG	AA	1946846643
SNP_P4_71848_17711891	NC_021164.1	Ca_kabuli_chr05	17711891	TT	GG	1946846645
SNP_P4_71850_17752662	NC_021164.1	Ca_kabuli_chr05	17752662	AA	TT	1946846647
SNP_P4_71852_17762239	NC_021164.1	Ca_kabuli_chr05	17762239	AA	TT	1946846649
SNP_P4_71853_17784140	NC_021164.1	Ca_kabuli_chr05	17784140	CC	TT	1946846651
SNP_P4_71854_17797996	NC_021164.1	Ca_kabuli_chr05	17797996	AA	GG	1946846653
SNP_P4_71855_17824373	NC_021164.1	Ca_kabuli_chr05	17824373	CC	TT	1946846655
SNP_P4_71856_17837850	NC_021164.1	Ca_kabuli_chr05	17837850	CC	TT	1946846657
SNP_P4_71857_17848441	NC_021164.1	Ca_kabuli_chr05	17848441	GG	AA	1946846659
SNP_P4_71858_17848749	NC_021164.1	Ca_kabuli_chr05	17848749	AA	CC	1946846661
SNP_P4_71859_17848853	NC_021164.1	Ca_kabuli_chr05	17848853	TT	AA	1946846663
SNP_P4_71860_17859794	NC_021164.1	Ca_kabuli_chr05	17859794	AA	GG	1946846665
SNP_P4_71861_17867151	NC_021164.1	Ca_kabuli_chr05	17867151	AA	CC	1946846667
SNP_P4_71862_17867384	NC_021164.1	Ca_kabuli_chr05	17867384	CC	TT	1946846669

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_71864_17867498	NC_021164.1	Ca_kabuli_chr05	17867498	GG	AA	1946846674
SNP_P4_71865_17867556	NC_021164.1	Ca_kabuli_chr05	17867556	TT	AA	1946846676
SNP_P4_71866_17867719	NC_021164.1	Ca_kabuli_chr05	17867719	CC	TT	1946846678
SNP_P4_71867_17867746	NC_021164.1	Ca_kabuli_chr05	17867746	TT	CC	1946846680
SNP_P4_71868_17867763	NC_021164.1	Ca_kabuli_chr05	17867763	GG	TT	1946846682
SNP_P4_71869_17867786	NC_021164.1	Ca_kabuli_chr05	17867786	AA	TT	1946846684
SNP_P4_71870_17867787	NC_021164.1	Ca_kabuli_chr05	17867787	CC	AA	1946846686
SNP_P4_71871_17867801	NC_021164.1	Ca_kabuli_chr05	17867801	GG	AA	1946846688
SNP_P4_71872_17867844	NC_021164.1	Ca_kabuli_chr05	17867844	TT	GG	1946846690
SNP_P4_71873_17867916	NC_021164.1	Ca_kabuli_chr05	17867916	GG	TT	1946846692
SNP_P4_71874_17868190	NC_021164.1	Ca_kabuli_chr05	17868190	AA	CC	1946846694
SNP_P4_71875_17868231	NC_021164.1	Ca_kabuli_chr05	17868231	CC	AA	1946846696
SNP_P4_71876_17869668	NC_021164.1	Ca_kabuli_chr05	17869668	TT	GG	1946846698
SNP_P4_71877_17873478	NC_021164.1	Ca_kabuli_chr05	17873478	GG	TT	1946846700
SNP_P4_71878_17874845	NC_021164.1	Ca_kabuli_chr05	17874845	GG	CC	1946846702
SNP_P4_71879_17874869	NC_021164.1	Ca_kabuli_chr05	17874869	TT	GG	1946846704
SNP_P4_71880_17874896	NC_021164.1	Ca_kabuli_chr05	17874896	CC	TT	1946846706
SNP_P4_71882_17876545	NC_021164.1	Ca_kabuli_chr05	17876545	GG	AA	1946846708
SNP_P4_71883_17876569	NC_021164.1	Ca_kabuli_chr05	17876569	AA	GG	1946846710
SNP_P4_71884_17876602	NC_021164.1	Ca_kabuli_chr05	17876602	CC	TT	1946846712
SNP_P4_71885_17876608	NC_021164.1	Ca_kabuli_chr05	17876608	AA	CC	1946846714
SNP_P4_71886_17876611	NC_021164.1	Ca_kabuli_chr05	17876611	TT	AA	1946846716
SNP_P4_71887_17876613	NC_021164.1	Ca_kabuli_chr05	17876613	CC	GG	1946846718
SNP_P4_71888_17876643	NC_021164.1	Ca_kabuli_chr05	17876643	CC	GG	1946846720
SNP_P4_71889_17876650	NC_021164.1	Ca_kabuli_chr05	17876650	AA	CC	1946846722
SNP_P4_71892_17877144	NC_021164.1	Ca_kabuli_chr05	17877144	TT	CC	1946846724
SNP_P4_71893_17899595	NC_021164.1	Ca_kabuli_chr05	17899595	CC	AA	1946846726
SNP_P4_71894_17899607	NC_021164.1	Ca_kabuli_chr05	17899607	TT	CC	1946846728
SNP_P4_71895_17899625	NC_021164.1	Ca_kabuli_chr05	17899625	CC	TT	1946846730
SNP_P4_71896_17899632	NC_021164.1	Ca_kabuli_chr05	17899632	AA	GG	1946846732
SNP_P4_71897_17899633	NC_021164.1	Ca_kabuli_chr05	17899633	AA	TT	1946846734
SNP_P4_71898_17899682	NC_021164.1	Ca_kabuli_chr05	17899682	TT	AA	1946846736
SNP_P4_71899_17899727	NC_021164.1	Ca_kabuli_chr05	17899727	AA	TT	1946846738
SNP_P4_71900_17900074	NC_021164.1	Ca_kabuli_chr05	17900074	AA	TT	1946846740
SNP_P4_71901_17900101	NC_021164.1	Ca_kabuli_chr05	17900101	TT	CC	1946846742
SNP_P4_71902_17918034	NC_021164.1	Ca_kabuli_chr05	17918034	AA	CC	1946846744
SNP_P4_71903_17922055	NC_021164.1	Ca_kabuli_chr05	17922055	TT	AA	1946846746
SNP_P4_71904_17932508	NC_021164.1	Ca_kabuli_chr05	17932508	TT	CC	1946846748
SNP_P4_71905_17932521	NC_021164.1	Ca_kabuli_chr05	17932521	TT	CC	1946846750
SNP_P4_71906_17933066	NC_021164.1	Ca_kabuli_chr05	17933066	AA	GG	1946846752
SNP_P4_71908_17955840	NC_021164.1	Ca_kabuli_chr05	17955840	AA	CC	1946846754

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_71911_17960418	NC_021164.1	Ca_kabuli_chr05	17960418	AA	CC	1946846758
SNP_P4_71912_18033831	NC_021164.1	Ca_kabuli_chr05	18033831	GG	TT	1946846760
SNP_P4_71913_18033846	NC_021164.1	Ca_kabuli_chr05	18033846	TT	AA	1946846762
SNP_P4_71914_18033849	NC_021164.1	Ca_kabuli_chr05	18033849	AA	GG	1946846764
SNP_P4_71915_18033850	NC_021164.1	Ca_kabuli_chr05	18033850	TT	GG	1946846766
SNP_P4_71917_18062620	NC_021164.1	Ca_kabuli_chr05	18062620	CC	TT	1946846769
SNP_P4_71918_18066767	NC_021164.1	Ca_kabuli_chr05	18066767	AA	GG	1946846771
SNP_P4_71919_18066773	NC_021164.1	Ca_kabuli_chr05	18066773	TT	CC	1946846773
SNP_P4_71920_18066777	NC_021164.1	Ca_kabuli_chr05	18066777	TT	CC	1946846775
SNP_P4_71921_18066785	NC_021164.1	Ca_kabuli_chr05	18066785	AA	GG	1946846777
SNP_P4_71923_18078809	NC_021164.1	Ca_kabuli_chr05	18078809	AA	CC	1946846779
SNP_P4_71924_18078976	NC_021164.1	Ca_kabuli_chr05	18078976	GG	TT	1946846781
SNP_P4_71925_18079120	NC_021164.1	Ca_kabuli_chr05	18079120	CC	TT	1946846783
SNP_P4_71926_18079206	NC_021164.1	Ca_kabuli_chr05	18079206	GG	AA	1946846785
SNP_P4_71927_18089263	NC_021164.1	Ca_kabuli_chr05	18089263	TT	AA	1946846787
SNP_P4_71928_18089267	NC_021164.1	Ca_kabuli_chr05	18089267	AA	GG	1946846789
SNP_P4_71929_18089329	NC_021164.1	Ca_kabuli_chr05	18089329	TT	GG	1946846791
SNP_P4_71930_18105246	NC_021164.1	Ca_kabuli_chr05	18105246	GG	AA	1946846793
SNP_P4_71931_18105771	NC_021164.1	Ca_kabuli_chr05	18105771	GG	CC	1946846795
SNP_P4_71932_18123759	NC_021164.1	Ca_kabuli_chr05	18123759	GG	TT	1946846797
SNP_P4_71933_18126688	NC_021164.1	Ca_kabuli_chr05	18126688	TT	GG	1946846799
SNP_P4_71934_18126697	NC_021164.1	Ca_kabuli_chr05	18126697	GG	CC	1946846801
SNP_P4_71935_18136075	NC_021164.1	Ca_kabuli_chr05	18136075	TT	CC	1946846803
SNP_P4_71937_18167755	NC_021164.1	Ca_kabuli_chr05	18167755	AA	CC	1946846805
SNP_P4_71938_18167757	NC_021164.1	Ca_kabuli_chr05	18167757	AA	CC	1946846807
SNP_P4_71940_18201139	NC_021164.1	Ca_kabuli_chr05	18201139	AA	CC	1946846809
SNP_P4_71941_18201171	NC_021164.1	Ca_kabuli_chr05	18201171	GG	TT	1946846811
SNP_P4_71942_18210001	NC_021164.1	Ca_kabuli_chr05	18210001	AA	GG	1946846813
SNP_P4_71943_18233194	NC_021164.1	Ca_kabuli_chr05	18233194	TT	CC	1946846815
SNP_P4_71944_18242652	NC_021164.1	Ca_kabuli_chr05	18242652	TT	AA	1946846817
SNP_P4_71945_18242679	NC_021164.1	Ca_kabuli_chr05	18242679	GG	AA	1946846819
SNP_P4_71946_18245970	NC_021164.1	Ca_kabuli_chr05	18245970	GG	AA	1946846821
SNP_P4_71947_18258033	NC_021164.1	Ca_kabuli_chr05	18258033	TT	CC	1946846823
SNP_P4_71948_18258035	NC_021164.1	Ca_kabuli_chr05	18258035	AA	GG	1946846825
SNP_P4_71949_18258041	NC_021164.1	Ca_kabuli_chr05	18258041	CC	TT	1946846827
SNP_P4_71950_18260035	NC_021164.1	Ca_kabuli_chr05	18260035	TT	CC	1946846829
SNP_P4_71951_18279548	NC_021164.1	Ca_kabuli_chr05	18279548	GG	AA	1946846832
SNP_P4_71952_18279557	NC_021164.1	Ca_kabuli_chr05	18279557	GG	AA	1946846834
SNP_P4_71953_18280471	NC_021164.1	Ca_kabuli_chr05	18280471	AA	GG	1946846836
SNP_P4_71954_18280514	NC_021164.1	Ca_kabuli_chr05	18280514	AA	TT	1946846838
SNP_P4_71955_18280623	NC_021164.1	Ca_kabuli_chr05	18280623	AA	GG	1946846840

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_71957_18280718	NC_021164.1	Ca_kabuli_chr05	18280718	TT	CC	1946846844
SNP_P4_71958_18282715	NC_021164.1	Ca_kabuli_chr05	18282715	AA	TT	1946846846
SNP_P4_71959_18282873	NC_021164.1	Ca_kabuli_chr05	18282873	AA	CC	1946846848
SNP_P4_71960_18282875	NC_021164.1	Ca_kabuli_chr05	18282875	TT	GG	1946846850
SNP_P4_71961_18282916	NC_021164.1	Ca_kabuli_chr05	18282916	TT	CC	1946846852
SNP_P4_71962_18282944	NC_021164.1	Ca_kabuli_chr05	18282944	TT	CC	1946846854
SNP_P4_71963_18282952	NC_021164.1	Ca_kabuli_chr05	18282952	CC	TT	1946846856
SNP_P4_71964_18282985	NC_021164.1	Ca_kabuli_chr05	18282985	CC	TT	1946846858
SNP_P4_71965_18282988	NC_021164.1	Ca_kabuli_chr05	18282988	GG	AA	1946846860
SNP_P4_71966_18282997	NC_021164.1	Ca_kabuli_chr05	18282997	TT	CC	1946846862
SNP_P4_71967_18283009	NC_021164.1	Ca_kabuli_chr05	18283009	GG	AA	1946846864
SNP_P4_71968_18283197	NC_021164.1	Ca_kabuli_chr05	18283197	TT	CC	1946846866
SNP_P4_71969_18283237	NC_021164.1	Ca_kabuli_chr05	18283237	AA	GG	1946846868
SNP_P4_71970_18285792	NC_021164.1	Ca_kabuli_chr05	18285792	TT	GG	1946846870
SNP_P4_71971_18285826	NC_021164.1	Ca_kabuli_chr05	18285826	CC	TT	1946846872
SNP_P4_71972_18285829	NC_021164.1	Ca_kabuli_chr05	18285829	TT	CC	1946846874
SNP_P4_71973_18285911	NC_021164.1	Ca_kabuli_chr05	18285911	AA	TT	1946846876
SNP_P4_71974_18286173	NC_021164.1	Ca_kabuli_chr05	18286173	TT	CC	1946846878
SNP_P4_71975_18286181	NC_021164.1	Ca_kabuli_chr05	18286181	TT	CC	1946846880
SNP_P4_71976_18290490	NC_021164.1	Ca_kabuli_chr05	18290490	TT	AA	1946846882
SNP_P4_71977_18313560	NC_021164.1	Ca_kabuli_chr05	18313560	TT	AA	1946846884
SNP_P4_71978_18314132	NC_021164.1	Ca_kabuli_chr05	18314132	CC	TT	1946846886
SNP_P4_71979_18314451	NC_021164.1	Ca_kabuli_chr05	18314451	GG	AA	1946846888
SNP_P4_71980_18314465	NC_021164.1	Ca_kabuli_chr05	18314465	TT	CC	1946846890
SNP_P4_71981_18314467	NC_021164.1	Ca_kabuli_chr05	18314467	AA	GG	1946846892
SNP_P4_71982_18314495	NC_021164.1	Ca_kabuli_chr05	18314495	TT	GG	1946846894
SNP_P4_71983_18314500	NC_021164.1	Ca_kabuli_chr05	18314500	GG	CC	1946846896
SNP_P4_71984_18314599	NC_021164.1	Ca_kabuli_chr05	18314599	CC	AA	1946846898
SNP_P4_71985_18319890	NC_021164.1	Ca_kabuli_chr05	18319890	AA	GG	1946846900
SNP_P4_71986_18320214	NC_021164.1	Ca_kabuli_chr05	18320214	GG	AA	1946846902
SNP_P4_71987_18320245	NC_021164.1	Ca_kabuli_chr05	18320245	TT	AA	1946846904
SNP_P4_71988_18320280	NC_021164.1	Ca_kabuli_chr05	18320280	AA	GG	1946846906
SNP_P4_71989_18325015	NC_021164.1	Ca_kabuli_chr05	18325015	AA	GG	1946846908
SNP_P4_71990_18325448	NC_021164.1	Ca_kabuli_chr05	18325448	TT	CC	1946846910
SNP_P4_71991_18325955	NC_021164.1	Ca_kabuli_chr05	18325955	GG	TT	1946846912
SNP_P4_71992_18327005	NC_021164.1	Ca_kabuli_chr05	18327005	AA	TT	1946846914
SNP_P4_71993_18327177	NC_021164.1	Ca_kabuli_chr05	18327177	AA	GG	1946846916
SNP_P4_71994_18327194	NC_021164.1	Ca_kabuli_chr05	18327194	AA	GG	1946846918
SNP_P4_71995_18327206	NC_021164.1	Ca_kabuli_chr05	18327206	GG	AA	1946846920
SNP_P4_71996_18327207	NC_021164.1	Ca_kabuli_chr05	18327207	AA	GG	1946846922
SNP_P4_71997_18327231	NC_021164.1	Ca_kabuli_chr05	18327231	GG	TT	1946846924

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_71999_18416359	NC_021164.1	Ca_kabuli_chr05	18416359	CC	GG	1946846928
SNP_P4_72000_18428698	NC_021164.1	Ca_kabuli_chr05	18428698	AA	GG	1946846930
SNP_P4_72001_18431838	NC_021164.1	Ca_kabuli_chr05	18431838	TT	CC	1946846932
SNP_P4_72002_18432135	NC_021164.1	Ca_kabuli_chr05	18432135	GG	AA	1946846934
SNP_P4_72003_18497775	NC_021164.1	Ca_kabuli_chr05	18497775	AA	TT	1946846936
SNP_P4_72004_18497985	NC_021164.1	Ca_kabuli_chr05	18497985	TT	GG	1946846938
SNP_P4_72005_18498005	NC_021164.1	Ca_kabuli_chr05	18498005	AA	TT	1946846940
SNP_P4_72006_18498031	NC_021164.1	Ca_kabuli_chr05	18498031	AA	GG	1946846942
SNP_P4_72007_18518322	NC_021164.1	Ca_kabuli_chr05	18518322	TT	GG	1946846944
SNP_P4_72008_18556603	NC_021164.1	Ca_kabuli_chr05	18556603	TT	CC	1946846946
SNP_P4_72009_18556652	NC_021164.1	Ca_kabuli_chr05	18556652	TT	AA	1946846948
SNP_P4_72010_18556659	NC_021164.1	Ca_kabuli_chr05	18556659	GG	CC	1946846950
SNP_P4_72011_18556712	NC_021164.1	Ca_kabuli_chr05	18556712	GG	TT	1946846952
SNP_P4_72012_18556726	NC_021164.1	Ca_kabuli_chr05	18556726	CC	GG	1946846954
SNP_P4_72013_18556733	NC_021164.1	Ca_kabuli_chr05	18556733	GG	AA	1946846956
SNP_P4_72014_18562039	NC_021164.1	Ca_kabuli_chr05	18562039	GG	AA	1946846958
SNP_P4_72016_18590368	NC_021164.1	Ca_kabuli_chr05	18590368	TT	AA	1946846960
SNP_P4_72017_18590395	NC_021164.1	Ca_kabuli_chr05	18590395	TT	AA	1946846962
SNP_P4_72018_18590427	NC_021164.1	Ca_kabuli_chr05	18590427	GG	TT	1946846964
SNP_P4_72019_18590616	NC_021164.1	Ca_kabuli_chr05	18590616	GG	AA	1946846966
SNP_P4_72020_18590622	NC_021164.1	Ca_kabuli_chr05	18590622	GG	AA	1946846968
SNP_P4_72021_18590661	NC_021164.1	Ca_kabuli_chr05	18590661	CC	TT	1946846970
SNP_P4_72022_18590692	NC_021164.1	Ca_kabuli_chr05	18590692	CC	TT	1946846972
SNP_P4_72023_18590828	NC_021164.1	Ca_kabuli_chr05	18590828	TT	AA	1946846974
SNP_P4_72024_18590833	NC_021164.1	Ca_kabuli_chr05	18590833	TT	CC	1946846976
SNP_P4_72025_18592479	NC_021164.1	Ca_kabuli_chr05	18592479	TT	CC	1946846978
SNP_P4_72026_18593008	NC_021164.1	Ca_kabuli_chr05	18593008	TT	CC	1946846980
SNP_P4_72027_18593104	NC_021164.1	Ca_kabuli_chr05	18593104	AA	GG	1946846982
SNP_P4_72028_18593110	NC_021164.1	Ca_kabuli_chr05	18593110	AA	GG	1946846984
SNP_P4_72029_18593146	NC_021164.1	Ca_kabuli_chr05	18593146	AA	GG	1946846986
SNP_P4_72030_18593178	NC_021164.1	Ca_kabuli_chr05	18593178	TT	GG	1946846988
SNP_P4_72031_18593202	NC_021164.1	Ca_kabuli_chr05	18593202	AA	GG	1946846990
SNP_P4_72032_18593223	NC_021164.1	Ca_kabuli_chr05	18593223	TT	GG	1946846992
SNP_P4_72033_18593365	NC_021164.1	Ca_kabuli_chr05	18593365	GG	AA	1946846994
SNP_P4_72034_18593383	NC_021164.1	Ca_kabuli_chr05	18593383	GG	TT	1946846997
SNP_P4_72035_18593403	NC_021164.1	Ca_kabuli_chr05	18593403	AA	GG	1946846999
SNP_P4_72036_18593578	NC_021164.1	Ca_kabuli_chr05	18593578	GG	TT	1946847001
SNP_P4_72037_18593642	NC_021164.1	Ca_kabuli_chr05	18593642	GG	AA	1946847003
SNP_P4_72038_18593649	NC_021164.1	Ca_kabuli_chr05	18593649	GG	CC	1946847005
SNP_P4_72039_18593736	NC_021164.1	Ca_kabuli_chr05	18593736	AA	GG	1946847007
SNP_P4_72040_18593780	NC_021164.1	Ca_kabuli_chr05	18593780	AA	GG	1946847009

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_72041_18593830	NC_021164.1	Ca_kabuli_chr05	18593830	GG	AA	1946847011
SNP_P4_72043_18593958	NC_021164.1	Ca_kabuli_chr05	18593958	AA	GG	1946847013
SNP_P4_72044_18593960	NC_021164.1	Ca_kabuli_chr05	18593960	GG	TT	1946847015
SNP_P4_72045_18594078	NC_021164.1	Ca_kabuli_chr05	18594078	GG	AA	1946847017
SNP_P4_72046_18594132	NC_021164.1	Ca_kabuli_chr05	18594132	GG	TT	1946847019
SNP_P4_72047_18612809	NC_021164.1	Ca_kabuli_chr05	18612809	TT	CC	1946847021
SNP_P4_72048_18612810	NC_021164.1	Ca_kabuli_chr05	18612810	TT	AA	1946847023
SNP_P4_72049_18624861	NC_021164.1	Ca_kabuli_chr05	18624861	TT	CC	1946847025
SNP_P4_72050_18649701	NC_021164.1	Ca_kabuli_chr05	18649701	CC	TT	1946847027
SNP_P4_72051_18678592	NC_021164.1	Ca_kabuli_chr05	18678592	TT	GG	1946847029
SNP_P4_72052_18678615	NC_021164.1	Ca_kabuli_chr05	18678615	TT	CC	1946847031
SNP_P4_72053_18678649	NC_021164.1	Ca_kabuli_chr05	18678649	AA	GG	1946847033
SNP_P4_72054_18678701	NC_021164.1	Ca_kabuli_chr05	18678701	AA	CC	1946847035
SNP_P4_72055_18678703	NC_021164.1	Ca_kabuli_chr05	18678703	GG	CC	1946847037
SNP_P4_72056_18678723	NC_021164.1	Ca_kabuli_chr05	18678723	AA	CC	1946847039
SNP_P4_72057_18678736	NC_021164.1	Ca_kabuli_chr05	18678736	AA	CC	1946847041
SNP_P4_72058_18678773	NC_021164.1	Ca_kabuli_chr05	18678773	GG	CC	1946847043
SNP_P4_72059_18679655	NC_021164.1	Ca_kabuli_chr05	18679655	AA	GG	1946847045
SNP_P4_72060_18679660	NC_021164.1	Ca_kabuli_chr05	18679660	GG	CC	1946847047
SNP_P4_72061_18679683	NC_021164.1	Ca_kabuli_chr05	18679683	TT	CC	1946847049
SNP_P4_72062_18679734	NC_021164.1	Ca_kabuli_chr05	18679734	AA	CC	1946847051
SNP_P4_72063_18679737	NC_021164.1	Ca_kabuli_chr05	18679737	TT	CC	1946847053
SNP_P4_72064_18681538	NC_021164.1	Ca_kabuli_chr05	18681538	GG	CC	1946847055
SNP_P4_72065_18681540	NC_021164.1	Ca_kabuli_chr05	18681540	CC	GG	1946847057
SNP_P4_72066_18682921	NC_021164.1	Ca_kabuli_chr05	18682921	GG	AA	1946847059
SNP_P4_72067_18682979	NC_021164.1	Ca_kabuli_chr05	18682979	AA	CC	1946847061
SNP_P4_72068_18683047	NC_021164.1	Ca_kabuli_chr05	18683047	GG	CC	1946847063
SNP_P4_72069_18683064	NC_021164.1	Ca_kabuli_chr05	18683064	TT	CC	1946847065
SNP_P4_72070_18683067	NC_021164.1	Ca_kabuli_chr05	18683067	AA	GG	1946847067
SNP_P4_72071_18683081	NC_021164.1	Ca_kabuli_chr05	18683081	AA	CC	1946847069
SNP_P4_72072_18683156	NC_021164.1	Ca_kabuli_chr05	18683156	TT	CC	1946847071
SNP_P4_72073_18683174	NC_021164.1	Ca_kabuli_chr05	18683174	AA	GG	1946847073
SNP_P4_72075_18683922	NC_021164.1	Ca_kabuli_chr05	18683922	AA	TT	1946847075
SNP_P4_72076_18683950	NC_021164.1	Ca_kabuli_chr05	18683950	TT	CC	1946847077
SNP_P4_72077_18684009	NC_021164.1	Ca_kabuli_chr05	18684009	AA	CC	1946847079
SNP_P4_72078_18684021	NC_021164.1	Ca_kabuli_chr05	18684021	CC	TT	1946847081
SNP_P4_72079_18684035	NC_021164.1	Ca_kabuli_chr05	18684035	AA	GG	1946847083
SNP_P4_72080_18686075	NC_021164.1	Ca_kabuli_chr05	18686075	AA	TT	1946847084
SNP_P4_72082_18694592	NC_021164.1	Ca_kabuli_chr05	18694592	CC	TT	1946847086
SNP_P4_72083_18694616	NC_021164.1	Ca_kabuli_chr05	18694616	CC	TT	1946847088
SNP_P4_72084_18694638	NC_021164.1	Ca_kabuli_chr05	18694638	CC	TT	1946847090
SNP_P4_72085_18735388	NC_021164.1	Ca_kabuli_chr05	18735388	GG	TT	1946847092

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_72087_18787497	NC_021164.1	Ca_kabuli_chr05	18787497	CC	TT	1946847096
SNP_P4_72088_18794069	NC_021164.1	Ca_kabuli_chr05	18794069	AA	GG	1946847098
SNP_P4_72089_18794142	NC_021164.1	Ca_kabuli_chr05	18794142	TT	CC	1946847100
SNP_P4_72090_18794162	NC_021164.1	Ca_kabuli_chr05	18794162	TT	CC	1946847102
SNP_P4_72091_18794198	NC_021164.1	Ca_kabuli_chr05	18794198	GG	AA	1946847104
SNP_P4_72092_18794554	NC_021164.1	Ca_kabuli_chr05	18794554	TT	GG	1946847106
SNP_P4_72094_18820942	NC_021164.1	Ca_kabuli_chr05	18820942	TT	CC	1946847108
SNP_P4_72095_18820952	NC_021164.1	Ca_kabuli_chr05	18820952	TT	AA	1946847110
SNP_P4_72096_18831787	NC_021164.1	Ca_kabuli_chr05	18831787	GG	AA	1946847112
SNP_P4_72097_18834755	NC_021164.1	Ca_kabuli_chr05	18834755	TT	AA	1946847114
SNP_P4_72098_18834760	NC_021164.1	Ca_kabuli_chr05	18834760	TT	GG	1946847116
SNP_P4_72099_18834783	NC_021164.1	Ca_kabuli_chr05	18834783	TT	GG	1946847118
SNP_P4_72100_18846403	NC_021164.1	Ca_kabuli_chr05	18846403	CC	TT	1946847120
SNP_P4_72101_18846424	NC_021164.1	Ca_kabuli_chr05	18846424	AA	GG	1946847122
SNP_P4_72102_18846490	NC_021164.1	Ca_kabuli_chr05	18846490	CC	GG	1946847124
SNP_P4_72103_18846759	NC_021164.1	Ca_kabuli_chr05	18846759	AA	GG	1946847126
SNP_P4_72104_18869370	NC_021164.1	Ca_kabuli_chr05	18869370	TT	CC	1946847128
SNP_P4_72105_18888650	NC_021164.1	Ca_kabuli_chr05	18888650	AA	CC	1946847130
SNP_P4_72106_18898511	NC_021164.1	Ca_kabuli_chr05	18898511	CC	TT	1946847132
SNP_P4_72107_18899964	NC_021164.1	Ca_kabuli_chr05	18899964	AA	GG	1946847134
SNP_P4_72108_18899996	NC_021164.1	Ca_kabuli_chr05	18899996	AA	GG	1946847136
SNP_P4_72109_18900004	NC_021164.1	Ca_kabuli_chr05	18900004	TT	CC	1946847138
SNP_P4_72110_18923780	NC_021164.1	Ca_kabuli_chr05	18923780	AA	GG	1946847140
SNP_P4_72111_18944145	NC_021164.1	Ca_kabuli_chr05	18944145	GG	CC	1946847142
SNP_P4_72112_18944209	NC_021164.1	Ca_kabuli_chr05	18944209	CC	TT	1946847143
SNP_P4_72113_18944248	NC_021164.1	Ca_kabuli_chr05	18944248	CC	TT	1946847145
SNP_P4_72114_18944273	NC_021164.1	Ca_kabuli_chr05	18944273	GG	AA	1946847147
SNP_P4_72115_18944292	NC_021164.1	Ca_kabuli_chr05	18944292	AA	TT	1946847149
SNP_P4_72116_18944340	NC_021164.1	Ca_kabuli_chr05	18944340	CC	TT	1946847151
SNP_P4_72117_18944364	NC_021164.1	Ca_kabuli_chr05	18944364	TT	GG	1946847153
SNP_P4_72118_18944468	NC_021164.1	Ca_kabuli_chr05	18944468	GG	CC	1946847155
SNP_P4_72119_18944483	NC_021164.1	Ca_kabuli_chr05	18944483	AA	CC	1946847157
SNP_P4_72120_18944501	NC_021164.1	Ca_kabuli_chr05	18944501	CC	TT	1946847159
SNP_P4_72121_18944543	NC_021164.1	Ca_kabuli_chr05	18944543	AA	CC	1946847161
SNP_P4_72122_18944547	NC_021164.1	Ca_kabuli_chr05	18944547	GG	CC	1946847163
SNP_P4_72124_18944708	NC_021164.1	Ca_kabuli_chr05	18944708	TT	CC	1946847165
SNP_P4_72125_18944719	NC_021164.1	Ca_kabuli_chr05	18944719	TT	AA	1946847167
SNP_P4_72126_18944725	NC_021164.1	Ca_kabuli_chr05	18944725	TT	GG	1946847169
SNP_P4_72127_18948093	NC_021164.1	Ca_kabuli_chr05	18948093	CC	TT	1946847171
SNP_P4_72128_18956156	NC_021164.1	Ca_kabuli_chr05	18956156	TT	AA	1946847173
SNP_P4_72130_19302043	NC_021164.1	Ca_kabuli_chr05	19302043	AA	GG	1946847175

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_72132_19304922	NC_021164.1	Ca_kabuli_chr05	19304922	TT	CC	1946847179
SNP_P4_72133_19305070	NC_021164.1	Ca_kabuli_chr05	19305070	GG	CC	1946847181
SNP_P4_72134_19305394	NC_021164.1	Ca_kabuli_chr05	19305394	GG	AA	1946847183
SNP_P4_72135_19305750	NC_021164.1	Ca_kabuli_chr05	19305750	AA	TT	1946847185
SNP_P4_72136_19315676	NC_021164.1	Ca_kabuli_chr05	19315676	GG	CC	1946847187
SNP_P4_72137_19324327	NC_021164.1	Ca_kabuli_chr05	19324327	GG	AA	1946847189
SNP_P4_72138_19331809	NC_021164.1	Ca_kabuli_chr05	19331809	TT	CC	1946847191
SNP_P4_72139_19361654	NC_021164.1	Ca_kabuli_chr05	19361654	GG	AA	1946847193
SNP_P4_72140_19375004	NC_021164.1	Ca_kabuli_chr05	19375004	GG	AA	1946847195
SNP_P4_72141_19375013	NC_021164.1	Ca_kabuli_chr05	19375013	GG	CC	1946847197
SNP_P4_72142_19375029	NC_021164.1	Ca_kabuli_chr05	19375029	CC	TT	1946847199
SNP_P4_72143_19375034	NC_021164.1	Ca_kabuli_chr05	19375034	GG	AA	1946847201
SNP_P4_72144_19375035	NC_021164.1	Ca_kabuli_chr05	19375035	CC	TT	1946847202
SNP_P4_72145_19375042	NC_021164.1	Ca_kabuli_chr05	19375042	CC	AA	1946847204
SNP_P4_72146_19375062	NC_021164.1	Ca_kabuli_chr05	19375062	CC	TT	1946847206
SNP_P4_72147_19375063	NC_021164.1	Ca_kabuli_chr05	19375063	AA	CC	1946847208
SNP_P4_72148_19380620	NC_021164.1	Ca_kabuli_chr05	19380620	CC	TT	1946847210
SNP_P4_72149_19385578	NC_021164.1	Ca_kabuli_chr05	19385578	TT	GG	1946847212
SNP_P4_72150_19385631	NC_021164.1	Ca_kabuli_chr05	19385631	TT	CC	1946847214
SNP_P4_72151_19385951	NC_021164.1	Ca_kabuli_chr05	19385951	CC	TT	1946847216
SNP_P4_72152_19385953	NC_021164.1	Ca_kabuli_chr05	19385953	AA	TT	1946847218
SNP_P4_72153_19385973	NC_021164.1	Ca_kabuli_chr05	19385973	AA	GG	1946847220
SNP_P4_72154_19385978	NC_021164.1	Ca_kabuli_chr05	19385978	TT	AA	1946847222
SNP_P4_72155_19386682	NC_021164.1	Ca_kabuli_chr05	19386682	TT	AA	1946847223
SNP_P4_72156_19386704	NC_021164.1	Ca_kabuli_chr05	19386704	TT	GG	1946847225
SNP_P4_72157_19386720	NC_021164.1	Ca_kabuli_chr05	19386720	GG	AA	1946847227
SNP_P4_72158_19399641	NC_021164.1	Ca_kabuli_chr05	19399641	GG	AA	1946847229
SNP_P4_72159_19458061	NC_021164.1	Ca_kabuli_chr05	19458061	CC	TT	1946847231
SNP_P4_72160_19476571	NC_021164.1	Ca_kabuli_chr05	19476571	TT	CC	1946847233
SNP_P4_72161_19477821	NC_021164.1	Ca_kabuli_chr05	19477821	TT	GG	1946847235
SNP_P4_72162_19477902	NC_021164.1	Ca_kabuli_chr05	19477902	AA	GG	1946847237
SNP_P4_72163_19477905	NC_021164.1	Ca_kabuli_chr05	19477905	AA	TT	1946847239
SNP_P4_72164_19477943	NC_021164.1	Ca_kabuli_chr05	19477943	GG	CC	1946847241
SNP_P4_72165_19478219	NC_021164.1	Ca_kabuli_chr05	19478219	TT	AA	1946847244
SNP_P4_72166_19482483	NC_021164.1	Ca_kabuli_chr05	19482483	AA	GG	1946847246
SNP_P4_72167_19482511	NC_021164.1	Ca_kabuli_chr05	19482511	AA	GG	1946847248
SNP_P4_72168_19482888	NC_021164.1	Ca_kabuli_chr05	19482888	AA	GG	1946847250
SNP_P4_72169_19497917	NC_021164.1	Ca_kabuli_chr05	19497917	CC	TT	1946847252
SNP_P4_72170_19498331	NC_021164.1	Ca_kabuli_chr05	19498331	GG	TT	1946847254
SNP_P4_72171_19498558	NC_021164.1	Ca_kabuli_chr05	19498558	TT	CC	1946847256
SNP_P4_72172_19498586	NC_021164.1	Ca_kabuli_chr05	19498586	AA	GG	1946847258

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_72173_19498588	NC_021164.1	Ca_kabuli_chr05	19498588	AA	GG	1946847260
SNP_P4_72174_19498610	NC_021164.1	Ca_kabuli_chr05	19498610	CC	TT	1946847262
SNP_P4_72175_19498649	NC_021164.1	Ca_kabuli_chr05	19498649	TT	CC	1946847264
SNP_P4_72176_19498692	NC_021164.1	Ca_kabuli_chr05	19498692	AA	GG	1946847266
SNP_P4_72177_19516883	NC_021164.1	Ca_kabuli_chr05	19516883	TT	GG	1946847268
SNP_P4_72178_19521087	NC_021164.1	Ca_kabuli_chr05	19521087	AA	GG	1946847270
SNP_P4_72179_19528633	NC_021164.1	Ca_kabuli_chr05	19528633	AA	TT	1946847272
SNP_P4_72180_19531083	NC_021164.1	Ca_kabuli_chr05	19531083	AA	GG	1946847274
SNP_P4_72181_19533810	NC_021164.1	Ca_kabuli_chr05	19533810	TT	GG	1946847276
SNP_P4_72182_19533911	NC_021164.1	Ca_kabuli_chr05	19533911	CC	GG	1946847278
SNP_P4_72183_19533955	NC_021164.1	Ca_kabuli_chr05	19533955	TT	CC	1946847280
SNP_P4_72184_19533992	NC_021164.1	Ca_kabuli_chr05	19533992	CC	TT	1946847282
SNP_P4_72185_19534218	NC_021164.1	Ca_kabuli_chr05	19534218	CC	TT	1946847284
SNP_P4_72186_19538397	NC_021164.1	Ca_kabuli_chr05	19538397	AA	GG	1946847286
SNP_P4_72187_19538724	NC_021164.1	Ca_kabuli_chr05	19538724	TT	AA	1946847288
SNP_P4_72188_19538882	NC_021164.1	Ca_kabuli_chr05	19538882	TT	GG	1946847290
SNP_P4_72189_19542846	NC_021164.1	Ca_kabuli_chr05	19542846	CC	TT	1946847293
SNP_P4_72191_19545066	NC_021164.1	Ca_kabuli_chr05	19545066	TT	AA	1946847295
SNP_P4_72192_19545067	NC_021164.1	Ca_kabuli_chr05	19545067	GG	AA	1946847297
SNP_P4_72193_19545068	NC_021164.1	Ca_kabuli_chr05	19545068	GG	CC	1946847299
SNP_P4_72194_19545488	NC_021164.1	Ca_kabuli_chr05	19545488	AA	GG	1946847301
SNP_P4_72195_19590084	NC_021164.1	Ca_kabuli_chr05	19590084	TT	CC	1946847303
SNP_P4_72196_19590673	NC_021164.1	Ca_kabuli_chr05	19590673	TT	CC	1946847305
SNP_P4_72197_19590750	NC_021164.1	Ca_kabuli_chr05	19590750	GG	TT	1946847307
SNP_P4_72198_19590759	NC_021164.1	Ca_kabuli_chr05	19590759	TT	CC	1946847309
SNP_P4_72199_19590856	NC_021164.1	Ca_kabuli_chr05	19590856	AA	TT	1946847311
SNP_P4_72200_19591054	NC_021164.1	Ca_kabuli_chr05	19591054	TT	AA	1946847313
SNP_P4_72201_19591147	NC_021164.1	Ca_kabuli_chr05	19591147	TT	CC	1946847315
SNP_P4_72203_19591367	NC_021164.1	Ca_kabuli_chr05	19591367	TT	CC	1946847317
SNP_P4_72204_19591429	NC_021164.1	Ca_kabuli_chr05	19591429	GG	TT	1946847319
SNP_P4_72205_19620515	NC_021164.1	Ca_kabuli_chr05	19620515	TT	AA	1946847320
SNP_P4_72206_19650569	NC_021164.1	Ca_kabuli_chr05	19650569	AA	GG	1946847322
SNP_P4_72207_19655200	NC_021164.1	Ca_kabuli_chr05	19655200	AA	CC	1946847324
SNP_P4_72208_19667500	NC_021164.1	Ca_kabuli_chr05	19667500	CC	TT	1946847326
SNP_P4_72209_19667587	NC_021164.1	Ca_kabuli_chr05	19667587	GG	TT	1946847328
SNP_P4_72210_19667626	NC_021164.1	Ca_kabuli_chr05	19667626	AA	GG	1946847330
SNP_P4_72211_19667697	NC_021164.1	Ca_kabuli_chr05	19667697	AA	GG	1946847331
SNP_P4_72212_19667853	NC_021164.1	Ca_kabuli_chr05	19667853	GG	AA	1946847332
SNP_P4_72213_19669598	NC_021164.1	Ca_kabuli_chr05	19669598	AA	GG	1946847333
SNP_P4_72214_19669602	NC_021164.1	Ca_kabuli_chr05	19669602	TT	CC	1946847334
SNP_P4_72215_19702801	NC_021164.1	Ca_kabuli_chr05	19702801	TT	CC	1946847335
SNP_P4_72216_19702828	NC_021164.1	Ca_kabuli_chr05	19702828	GG	AA	1946847337

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_72217_19703017	NC_021164.1	Ca_kabuli_chr05	19703017	GG	AA	1946847339
SNP_P4_72218_19705241	NC_021164.1	Ca_kabuli_chr05	19705241	CC	TT	1946847342
SNP_P4_72220_19716362	NC_021164.1	Ca_kabuli_chr05	19716362	GG	AA	1946847344
SNP_P4_72221_19725589	NC_021164.1	Ca_kabuli_chr05	19725589	AA	GG	1946847346
SNP_P4_72222_19725658	NC_021164.1	Ca_kabuli_chr05	19725658	CC	TT	1946847348
SNP_P4_72223_19725742	NC_021164.1	Ca_kabuli_chr05	19725742	TT	GG	1946847350
SNP_P4_72225_19725982	NC_021164.1	Ca_kabuli_chr05	19725982	GG	AA	1946847352
SNP_P4_72226_19726096	NC_021164.1	Ca_kabuli_chr05	19726096	CC	TT	1946847354
SNP_P4_72227_19726102	NC_021164.1	Ca_kabuli_chr05	19726102	AA	GG	1946847356
SNP_P4_72228_19726114	NC_021164.1	Ca_kabuli_chr05	19726114	GG	AA	1946847358
SNP_P4_72229_19726130	NC_021164.1	Ca_kabuli_chr05	19726130	CC	AA	1946847360
SNP_P4_72230_19729692	NC_021164.1	Ca_kabuli_chr05	19729692	GG	AA	1946847362
SNP_P4_72231_19729737	NC_021164.1	Ca_kabuli_chr05	19729737	AA	TT	1946847364
SNP_P4_72232_19729740	NC_021164.1	Ca_kabuli_chr05	19729740	TT	CC	1946847366
SNP_P4_72233_19729743	NC_021164.1	Ca_kabuli_chr05	19729743	GG	AA	1946847368
SNP_P4_72234_19729749	NC_021164.1	Ca_kabuli_chr05	19729749	GG	AA	1946847370
SNP_P4_72235_19729785	NC_021164.1	Ca_kabuli_chr05	19729785	CC	TT	1946847372
SNP_P4_72236_19729788	NC_021164.1	Ca_kabuli_chr05	19729788	CC	TT	1946847374
SNP_P4_72237_19740875	NC_021164.1	Ca_kabuli_chr05	19740875	GG	CC	1946847376
SNP_P4_72238_19740877	NC_021164.1	Ca_kabuli_chr05	19740877	TT	GG	1946847378
SNP_P4_72240_19777085	NC_021164.1	Ca_kabuli_chr05	19777085	AA	CC	1946847380
SNP_P4_72241_19777092	NC_021164.1	Ca_kabuli_chr05	19777092	AA	CC	1946847382
SNP_P4_72242_19777105	NC_021164.1	Ca_kabuli_chr05	19777105	AA	GG	1946847384
SNP_P4_72246_19824306	NC_021164.1	Ca_kabuli_chr05	19824306	TT	CC	1946847386
SNP_P4_72247_19830608	NC_021164.1	Ca_kabuli_chr05	19830608	AA	GG	1946847388
SNP_P4_72248_19830784	NC_021164.1	Ca_kabuli_chr05	19830784	GG	AA	1946847390
SNP_P4_72249_19830806	NC_021164.1	Ca_kabuli_chr05	19830806	TT	CC	1946847392
SNP_P4_72250_19830907	NC_021164.1	Ca_kabuli_chr05	19830907	TT	CC	1946847394
SNP_P4_72251_19830985	NC_021164.1	Ca_kabuli_chr05	19830985	GG	AA	1946847396
SNP_P4_72252_19830997	NC_021164.1	Ca_kabuli_chr05	19830997	GG	AA	1946847398
SNP_P4_72253_19908543	NC_021164.1	Ca_kabuli_chr05	19908543	TT	CC	1946847400
SNP_P4_72254_19908777	NC_021164.1	Ca_kabuli_chr05	19908777	TT	GG	1946847402
SNP_P4_72255_19908788	NC_021164.1	Ca_kabuli_chr05	19908788	CC	AA	1946847404
SNP_P4_72256_19908815	NC_021164.1	Ca_kabuli_chr05	19908815	AA	TT	1946847406
SNP_P4_72257_19908818	NC_021164.1	Ca_kabuli_chr05	19908818	TT	CC	1946847408
SNP_P4_72258_19908926	NC_021164.1	Ca_kabuli_chr05	19908926	AA	CC	1946847410
SNP_P4_72259_19908957	NC_021164.1	Ca_kabuli_chr05	19908957	TT	AA	1946847412
SNP_P4_72260_19909123	NC_021164.1	Ca_kabuli_chr05	19909123	TT	CC	1946847414
SNP_P4_72261_19912815	NC_021164.1	Ca_kabuli_chr05	19912815	TT	CC	1946847416
SNP_P4_72262_19914397	NC_021164.1	Ca_kabuli_chr05	19914397	AA	GG	1946847418
SNP_P4_72263_19914453	NC_021164.1	Ca_kabuli_chr05	19914453	GG	CC	1946847420
SNP_P4_72266_19914536	NC_021164.1	Ca_kabuli_chr05	19914536	TT	CC	1946847422

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_72267_19914578	NC_021164.1	Ca_kabuli_chr05	19914578	GG	AA	1946847424
SNP_P4_72269_19914599	NC_021164.1	Ca_kabuli_chr05	19914599	CC	TT	1946847426
SNP_P4_72270_19914602	NC_021164.1	Ca_kabuli_chr05	19914602	GG	AA	1946847428
SNP_P4_72271_19914604	NC_021164.1	Ca_kabuli_chr05	19914604	CC	TT	1946847430
SNP_P4_72272_19914611	NC_021164.1	Ca_kabuli_chr05	19914611	TT	AA	1946847432
SNP_P4_72273_19922077	NC_021164.1	Ca_kabuli_chr05	19922077	AA	CC	1946847434
SNP_P4_72274_19922129	NC_021164.1	Ca_kabuli_chr05	19922129	AA	GG	1946847436
SNP_P4_72275_19922157	NC_021164.1	Ca_kabuli_chr05	19922157	TT	CC	1946847438
SNP_P4_72276_19922350	NC_021164.1	Ca_kabuli_chr05	19922350	GG	TT	1946847440
SNP_P4_72277_19922486	NC_021164.1	Ca_kabuli_chr05	19922486	AA	GG	1946847442
SNP_P4_72278_19922498	NC_021164.1	Ca_kabuli_chr05	19922498	TT	AA	1946847444
SNP_P4_72279_19922506	NC_021164.1	Ca_kabuli_chr05	19922506	CC	TT	1946847446
SNP_P4_72280_19923519	NC_021164.1	Ca_kabuli_chr05	19923519	AA	CC	1946847448
SNP_P4_72281_19923564	NC_021164.1	Ca_kabuli_chr05	19923564	GG	TT	1946847450
SNP_P4_72283_19960976	NC_021164.1	Ca_kabuli_chr05	19960976	CC	TT	1946847452
SNP_P4_72284_19961102	NC_021164.1	Ca_kabuli_chr05	19961102	TT	CC	1946847454
SNP_P4_72285_19961222	NC_021164.1	Ca_kabuli_chr05	19961222	TT	AA	1946847456
SNP_P4_72286_19978581	NC_021164.1	Ca_kabuli_chr05	19978581	GG	AA	1946847458
SNP_P4_72287_19998269	NC_021164.1	Ca_kabuli_chr05	19998269	GG	AA	1946847460
SNP_P4_72288_19998317	NC_021164.1	Ca_kabuli_chr05	19998317	TT	CC	1946847462
SNP_P4_72289_19998359	NC_021164.1	Ca_kabuli_chr05	19998359	TT	CC	1946847464
SNP_P4_72290_19998437	NC_021164.1	Ca_kabuli_chr05	19998437	TT	CC	1946847466
SNP_P4_72291_19998479	NC_021164.1	Ca_kabuli_chr05	19998479	AA	GG	1946847468
SNP_P4_72293_20073961	NC_021164.1	Ca_kabuli_chr05	20073961	AA	GG	1946847470
SNP_P4_72294_20073969	NC_021164.1	Ca_kabuli_chr05	20073969	TT	CC	1946847472
SNP_P4_72295_20074004	NC_021164.1	Ca_kabuli_chr05	20074004	TT	CC	1946847474
SNP_P4_72296_20089268	NC_021164.1	Ca_kabuli_chr05	20089268	AA	GG	1946847476
SNP_P4_72297_20089389	NC_021164.1	Ca_kabuli_chr05	20089389	CC	TT	1946847478
SNP_P4_72298_20105937	NC_021164.1	Ca_kabuli_chr05	20105937	TT	GG	1946847480
SNP_P4_72299_20106115	NC_021164.1	Ca_kabuli_chr05	20106115	GG	AA	1946847482
SNP_P4_72301_20126734	NC_021164.1	Ca_kabuli_chr05	20126734	CC	TT	1946847484
SNP_P4_72302_20299666	NC_021164.1	Ca_kabuli_chr05	20299666	AA	CC	1946847486
SNP_P4_72303_20341571	NC_021164.1	Ca_kabuli_chr05	20341571	AA	TT	1946847488
SNP_P4_72304_20366777	NC_021164.1	Ca_kabuli_chr05	20366777	TT	GG	1946847490
SNP_P4_72305_20374586	NC_021164.1	Ca_kabuli_chr05	20374586	TT	CC	1946847492
SNP_P4_72306_20374601	NC_021164.1	Ca_kabuli_chr05	20374601	TT	CC	1946847494
SNP_P4_72307_20374628	NC_021164.1	Ca_kabuli_chr05	20374628	CC	GG	1946847496
SNP_P4_72308_20374674	NC_021164.1	Ca_kabuli_chr05	20374674	TT	CC	1946847498
SNP_P4_72309_20374974	NC_021164.1	Ca_kabuli_chr05	20374974	CC	TT	1946847499
SNP_P4_72310_20392292	NC_021164.1	Ca_kabuli_chr05	20392292	AA	GG	1946847501
SNP_P4_72311_20392336	NC_021164.1	Ca_kabuli_chr05	20392336	AA	GG	1946847504
SNP_P4_72312_20392379	NC_021164.1	Ca_kabuli_chr05	20392379	TT	CC	1946847506

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_72313_20392646	NC_021164.1	Ca_kabuli_chr05	20392646	AA	GG	1946847508
SNP_P4_72314_20392702	NC_021164.1	Ca_kabuli_chr05	20392702	TT	CC	1946847510
SNP_P4_72315_20392842	NC_021164.1	Ca_kabuli_chr05	20392842	TT	AA	1946847512
SNP_P4_72316_20394374	NC_021164.1	Ca_kabuli_chr05	20394374	TT	CC	1946847514
SNP_P4_72317_20394377	NC_021164.1	Ca_kabuli_chr05	20394377	AA	GG	1946847516
SNP_P4_72318_20394434	NC_021164.1	Ca_kabuli_chr05	20394434	TT	AA	1946847517
SNP_P4_72319_20394441	NC_021164.1	Ca_kabuli_chr05	20394441	AA	GG	1946847519
SNP_P4_72320_20394445	NC_021164.1	Ca_kabuli_chr05	20394445	AA	GG	1946847520
SNP_P4_72321_20394465	NC_021164.1	Ca_kabuli_chr05	20394465	TT	CC	1946847521
SNP_P4_72322_20394499	NC_021164.1	Ca_kabuli_chr05	20394499	TT	CC	1946847522
SNP_P4_72323_20394511	NC_021164.1	Ca_kabuli_chr05	20394511	TT	CC	1946847523
SNP_P4_72324_20394620	NC_021164.1	Ca_kabuli_chr05	20394620	TT	GG	1946847524
SNP_P4_72325_20394694	NC_021164.1	Ca_kabuli_chr05	20394694	CC	TT	1946847525
SNP_P4_72326_20394717	NC_021164.1	Ca_kabuli_chr05	20394717	TT	CC	1946847527
SNP_P4_72327_20394872	NC_021164.1	Ca_kabuli_chr05	20394872	AA	GG	1946847529
SNP_P4_72328_20395149	NC_021164.1	Ca_kabuli_chr05	20395149	CC	TT	1946847531
SNP_P4_72329_20399044	NC_021164.1	Ca_kabuli_chr05	20399044	TT	AA	1946847533
SNP_P4_72330_20399211	NC_021164.1	Ca_kabuli_chr05	20399211	TT	CC	1946847535
SNP_P4_72331_20399441	NC_021164.1	Ca_kabuli_chr05	20399441	AA	TT	1946847537
SNP_P4_72332_20402581	NC_021164.1	Ca_kabuli_chr05	20402581	TT	CC	1946847539
SNP_P4_72333_20402624	NC_021164.1	Ca_kabuli_chr05	20402624	TT	GG	1946847541
SNP_P4_72334_20402838	NC_021164.1	Ca_kabuli_chr05	20402838	GG	CC	1946847542
SNP_P4_72336_20406364	NC_021164.1	Ca_kabuli_chr05	20406364	TT	GG	1946847544
SNP_P4_72337_20406370	NC_021164.1	Ca_kabuli_chr05	20406370	TT	GG	1946847546
SNP_P4_72338_20407202	NC_021164.1	Ca_kabuli_chr05	20407202	TT	GG	1946847548
SNP_P4_72339_20419329	NC_021164.1	Ca_kabuli_chr05	20419329	CC	TT	1946847550
SNP_P4_72340_20420798	NC_021164.1	Ca_kabuli_chr05	20420798	TT	CC	1946847552
SNP_P4_72341_20433227	NC_021164.1	Ca_kabuli_chr05	20433227	TT	AA	1946847554
SNP_P4_72342_20433559	NC_021164.1	Ca_kabuli_chr05	20433559	AA	GG	1946847556
SNP_P4_72343_20433564	NC_021164.1	Ca_kabuli_chr05	20433564	CC	TT	1946847558
SNP_P4_72344_20433646	NC_021164.1	Ca_kabuli_chr05	20433646	TT	CC	1946847560
SNP_P4_72345_20433864	NC_021164.1	Ca_kabuli_chr05	20433864	AA	CC	1946847562
SNP_P4_72346_20433892	NC_021164.1	Ca_kabuli_chr05	20433892	GG	CC	1946847564
SNP_P4_72347_20433926	NC_021164.1	Ca_kabuli_chr05	20433926	AA	GG	1946847566
SNP_P4_72348_20433946	NC_021164.1	Ca_kabuli_chr05	20433946	AA	TT	1946847567
SNP_P4_72349_20434493	NC_021164.1	Ca_kabuli_chr05	20434493	TT	AA	1946847569
SNP_P4_72351_20438984	NC_021164.1	Ca_kabuli_chr05	20438984	GG	TT	1946847571
SNP_P4_72352_20439692	NC_021164.1	Ca_kabuli_chr05	20439692	AA	GG	1946847573
SNP_P4_72353_20453050	NC_021164.1	Ca_kabuli_chr05	20453050	GG	AA	1946847575
SNP_P4_72354_20453051	NC_021164.1	Ca_kabuli_chr05	20453051	CC	AA	1946847577
SNP_P4_72355_20453168	NC_021164.1	Ca_kabuli_chr05	20453168	CC	TT	1946847579
SNP_P4_72356_20454386	NC_021164.1	Ca_kabuli_chr05	20454386	CC	TT	1946847581

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_72357_20454388	NC_021164.1	Ca_kabuli_chr05	20454388	CC	TT	1946847583
SNP_P4_72358_20454414	NC_021164.1	Ca_kabuli_chr05	20454414	CC	TT	1946847585
SNP_P4_72359_20454415	NC_021164.1	Ca_kabuli_chr05	20454415	CC	AA	1946847586
SNP_P4_72360_20454419	NC_021164.1	Ca_kabuli_chr05	20454419	TT	GG	1946847588
SNP_P4_72361_20454541	NC_021164.1	Ca_kabuli_chr05	20454541	AA	GG	1946847590
SNP_P4_72362_20520198	NC_021164.1	Ca_kabuli_chr05	20520198	GG	CC	1946847592
SNP_P4_72363_20520488	NC_021164.1	Ca_kabuli_chr05	20520488	CC	TT	1946847594
SNP_P4_72364_20520638	NC_021164.1	Ca_kabuli_chr05	20520638	AA	GG	1946847596
SNP_P4_72365_20520673	NC_021164.1	Ca_kabuli_chr05	20520673	CC	TT	1946847598
SNP_P4_72367_20533524	NC_021164.1	Ca_kabuli_chr05	20533524	TT	AA	1946847600
SNP_P4_72370_20547373	NC_021164.1	Ca_kabuli_chr05	20547373	GG	AA	1946847602
SNP_P4_72371_20547724	NC_021164.1	Ca_kabuli_chr05	20547724	AA	GG	1946847604
SNP_P4_72372_20547725	NC_021164.1	Ca_kabuli_chr05	20547725	GG	AA	1946847606
SNP_P4_72373_20547781	NC_021164.1	Ca_kabuli_chr05	20547781	CC	AA	1946847607
SNP_P4_72374_20548242	NC_021164.1	Ca_kabuli_chr05	20548242	TT	GG	1946847609
SNP_P4_72375_20554208	NC_021164.1	Ca_kabuli_chr05	20554208	CC	TT	1946847611
SNP_P4_72376_20562474	NC_021164.1	Ca_kabuli_chr05	20562474	CC	TT	1946847613
SNP_P4_72377_20564722	NC_021164.1	Ca_kabuli_chr05	20564722	GG	AA	1946847615
SNP_P4_72378_20569357	NC_021164.1	Ca_kabuli_chr05	20569357	AA	GG	1946847617
SNP_P4_72379_20577015	NC_021164.1	Ca_kabuli_chr05	20577015	GG	AA	1946847619
SNP_P4_72380_20577018	NC_021164.1	Ca_kabuli_chr05	20577018	AA	GG	1946847621
SNP_P4_72381_20577042	NC_021164.1	Ca_kabuli_chr05	20577042	CC	TT	1946847622
SNP_P4_72382_20577071	NC_021164.1	Ca_kabuli_chr05	20577071	GG	AA	1946847624
SNP_P4_72383_20583856	NC_021164.1	Ca_kabuli_chr05	20583856	TT	CC	1946847626
SNP_P4_72384_20626078	NC_021164.1	Ca_kabuli_chr05	20626078	GG	AA	1946847628
SNP_P4_72385_20626180	NC_021164.1	Ca_kabuli_chr05	20626180	CC	TT	1946847630
SNP_P4_72386_20626194	NC_021164.1	Ca_kabuli_chr05	20626194	TT	CC	1946847632
SNP_P4_72387_20631880	NC_021164.1	Ca_kabuli_chr05	20631880	CC	TT	1946847634
SNP_P4_72388_20654590	NC_021164.1	Ca_kabuli_chr05	20654590	GG	AA	1946847636
SNP_P4_72389_20655287	NC_021164.1	Ca_kabuli_chr05	20655287	TT	CC	1946847637
SNP_P4_72390_20670619	NC_021164.1	Ca_kabuli_chr05	20670619	CC	TT	1946847639
SNP_P4_72391_20683425	NC_021164.1	Ca_kabuli_chr05	20683425	CC	TT	1946847641
SNP_P4_72392_20683439	NC_021164.1	Ca_kabuli_chr05	20683439	CC	GG	1946847643
SNP_P4_72393_20699614	NC_021164.1	Ca_kabuli_chr05	20699614	GG	CC	1946847645
SNP_P4_72394_20699782	NC_021164.1	Ca_kabuli_chr05	20699782	GG	AA	1946847647
SNP_P4_72395_20700146	NC_021164.1	Ca_kabuli_chr05	20700146	CC	TT	1946847649
SNP_P4_72396_20700186	NC_021164.1	Ca_kabuli_chr05	20700186	AA	GG	1946847651
SNP_P4_72397_20700212	NC_021164.1	Ca_kabuli_chr05	20700212	CC	AA	1946847653
SNP_P4_72398_20700216	NC_021164.1	Ca_kabuli_chr05	20700216	TT	AA	1946847655
SNP_P4_72399_20701061	NC_021164.1	Ca_kabuli_chr05	20701061	GG	TT	1946847657
SNP_P4_72400_20701118	NC_021164.1	Ca_kabuli_chr05	20701118	TT	GG	1946847658
SNP_P4_72401_20701152	NC_021164.1	Ca_kabuli_chr05	20701152	CC	TT	1946847660

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_72402_20701157	NC_021164.1	Ca_kabuli_chr05	20701157	CC	TT	1946847662
SNP_P4_72403_20706454	NC_021164.1	Ca_kabuli_chr05	20706454	TT	CC	1946847664
SNP_P4_72406_20748244	NC_021164.1	Ca_kabuli_chr05	20748244	GG	AA	1946847666
SNP_P4_72407_20763503	NC_021164.1	Ca_kabuli_chr05	20763503	AA	CC	1946847668
SNP_P4_72409_20791695	NC_021164.1	Ca_kabuli_chr05	20791695	AA	GG	1946847670
SNP_P4_72410_20822348	NC_021164.1	Ca_kabuli_chr05	20822348	CC	TT	1946847671
SNP_P4_72411_20845062	NC_021164.1	Ca_kabuli_chr05	20845062	CC	TT	1946847673
SNP_P4_72412_20856693	NC_021164.1	Ca_kabuli_chr05	20856693	TT	CC	1946847675
SNP_P4_72413_20856696	NC_021164.1	Ca_kabuli_chr05	20856696	TT	AA	1946847677
SNP_P4_72414_20856701	NC_021164.1	Ca_kabuli_chr05	20856701	TT	CC	1946847679
SNP_P4_72415_20856775	NC_021164.1	Ca_kabuli_chr05	20856775	TT	CC	1946847681
SNP_P4_72416_20856826	NC_021164.1	Ca_kabuli_chr05	20856826	CC	TT	1946847683
SNP_P4_72417_20856979	NC_021164.1	Ca_kabuli_chr05	20856979	CC	TT	1946847685
SNP_P4_72418_20857025	NC_021164.1	Ca_kabuli_chr05	20857025	AA	TT	1946847687
SNP_P4_72419_20857027	NC_021164.1	Ca_kabuli_chr05	20857027	AA	GG	1946847689
SNP_P4_72420_20857028	NC_021164.1	Ca_kabuli_chr05	20857028	TT	GG	1946847690
SNP_P4_72421_20857067	NC_021164.1	Ca_kabuli_chr05	20857067	AA	GG	1946847692
SNP_P4_72422_20905357	NC_021164.1	Ca_kabuli_chr05	20905357	GG	AA	1946847694
SNP_P4_72424_20961140	NC_021164.1	Ca_kabuli_chr05	20961140	AA	TT	1946847696
SNP_P4_72425_20971397	NC_021164.1	Ca_kabuli_chr05	20971397	TT	AA	1946847698
SNP_P4_72426_20997792	NC_021164.1	Ca_kabuli_chr05	20997792	CC	AA	1946847700
SNP_P4_72428_21050663	NC_021164.1	Ca_kabuli_chr05	21050663	GG	AA	1946847702
SNP_P4_72429_21066307	NC_021164.1	Ca_kabuli_chr05	21066307	AA	GG	1946847704
SNP_P4_72430_21066317	NC_021164.1	Ca_kabuli_chr05	21066317	AA	GG	1946847706
SNP_P4_72431_21066334	NC_021164.1	Ca_kabuli_chr05	21066334	GG	AA	1946847707
SNP_P4_72432_21066341	NC_021164.1	Ca_kabuli_chr05	21066341	GG	AA	1946847709
SNP_P4_72433_21069882	NC_021164.1	Ca_kabuli_chr05	21069882	TT	AA	1946847711
SNP_P4_72435_21086032	NC_021164.1	Ca_kabuli_chr05	21086032	TT	CC	1946847713
SNP_P4_72436_21086040	NC_021164.1	Ca_kabuli_chr05	21086040	GG	CC	1946847715
SNP_P4_72437_21088836	NC_021164.1	Ca_kabuli_chr05	21088836	GG	TT	1946847717
SNP_P4_72438_21116527	NC_021164.1	Ca_kabuli_chr05	21116527	GG	AA	1946847719
SNP_P4_72439_21116806	NC_021164.1	Ca_kabuli_chr05	21116806	TT	AA	1946847721
SNP_P4_72440_21117105	NC_021164.1	Ca_kabuli_chr05	21117105	AA	GG	1946847722
SNP_P4_72441_21127290	NC_021164.1	Ca_kabuli_chr05	21127290	TT	CC	1946847724
SNP_P4_72442_21132201	NC_021164.1	Ca_kabuli_chr05	21132201	CC	TT	1946847726
SNP_P4_72443_21143197	NC_021164.1	Ca_kabuli_chr05	21143197	GG	AA	1946847728
SNP_P4_72444_21175545	NC_021164.1	Ca_kabuli_chr05	21175545	GG	AA	1946847730
SNP_P4_72446_21185177	NC_021164.1	Ca_kabuli_chr05	21185177	AA	GG	1946847732
SNP_P4_72448_21263308	NC_021164.1	Ca_kabuli_chr05	21263308	TT	AA	1946847734
SNP_P4_72449_21267551	NC_021164.1	Ca_kabuli_chr05	21267551	TT	AA	1946847736
SNP_P4_72450_21275016	NC_021164.1	Ca_kabuli_chr05	21275016	TT	AA	1946847737
SNP_P4_72451_21275036	NC_021164.1	Ca_kabuli_chr05	21275036	CC	TT	1946847739

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_72456_21415415	NC_021164.1	Ca_kabuli_chr05	21415415	TT	CC	1946847743
SNP_P4_72457_21416688	NC_021164.1	Ca_kabuli_chr05	21416688	GG	AA	1946847745
SNP_P4_72458_21424465	NC_021164.1	Ca_kabuli_chr05	21424465	AA	GG	1946847747
SNP_P4_72459_21447319	NC_021164.1	Ca_kabuli_chr05	21447319	AA	GG	1946847749
SNP_P4_72460_21448692	NC_021164.1	Ca_kabuli_chr05	21448692	TT	CC	1946847751
SNP_P4_72463_21484934	NC_021164.1	Ca_kabuli_chr05	21484934	TT	CC	1946847752
SNP_P4_72464_21485195	NC_021164.1	Ca_kabuli_chr05	21485195	TT	CC	1946847754
SNP_P4_72465_21485228	NC_021164.1	Ca_kabuli_chr05	21485228	AA	GG	1946847756
SNP_P4_72466_21485245	NC_021164.1	Ca_kabuli_chr05	21485245	AA	CC	1946847758
SNP_P4_72467_21485250	NC_021164.1	Ca_kabuli_chr05	21485250	AA	GG	1946847760
SNP_P4_72468_21485255	NC_021164.1	Ca_kabuli_chr05	21485255	AA	GG	1946847762
SNP_P4_72469_21498121	NC_021164.1	Ca_kabuli_chr05	21498121	GG	TT	1946847764
SNP_P4_72470_21498128	NC_021164.1	Ca_kabuli_chr05	21498128	TT	AA	1946847765
SNP_P4_72471_21498147	NC_021164.1	Ca_kabuli_chr05	21498147	GG	TT	1946847767
SNP_P4_72472_21498312	NC_021164.1	Ca_kabuli_chr05	21498312	TT	GG	1946847769
SNP_P4_72474_21503156	NC_021164.1	Ca_kabuli_chr05	21503156	AA	TT	1946847771
SNP_P4_72476_21527085	NC_021164.1	Ca_kabuli_chr05	21527085	AA	GG	1946847773
SNP_P4_72477_21527146	NC_021164.1	Ca_kabuli_chr05	21527146	AA	GG	1946847775
SNP_P4_72478_21536673	NC_021164.1	Ca_kabuli_chr05	21536673	TT	CC	1946847777
SNP_P4_72479_21556587	NC_021164.1	Ca_kabuli_chr05	21556587	TT	AA	1946847779
SNP_P4_72480_21597910	NC_021164.1	Ca_kabuli_chr05	21597910	CC	TT	1946847781
SNP_P4_72482_21623168	NC_021164.1	Ca_kabuli_chr05	21623168	CC	TT	1946847783
SNP_P4_72483_21623397	NC_021164.1	Ca_kabuli_chr05	21623397	AA	TT	1946847785
SNP_P4_72485_21623579	NC_021164.1	Ca_kabuli_chr05	21623579	CC	TT	1946847786
SNP_P4_72486_21623842	NC_021164.1	Ca_kabuli_chr05	21623842	AA	TT	1946847788
SNP_P4_72487_21623847	NC_021164.1	Ca_kabuli_chr05	21623847	TT	GG	1946847790
SNP_P4_72488_21623986	NC_021164.1	Ca_kabuli_chr05	21623986	AA	GG	1946847792
SNP_P4_72489_21624086	NC_021164.1	Ca_kabuli_chr05	21624086	GG	CC	1946847794
SNP_P4_72490_21624281	NC_021164.1	Ca_kabuli_chr05	21624281	AA	CC	1946847796
SNP_P4_72491_21643837	NC_021164.1	Ca_kabuli_chr05	21643837	TT	CC	1946847798
SNP_P4_72492_21644662	NC_021164.1	Ca_kabuli_chr05	21644662	AA	GG	1946847800
SNP_P4_72493_21645511	NC_021164.1	Ca_kabuli_chr05	21645511	TT	GG	1946847802
SNP_P4_72494_21648650	NC_021164.1	Ca_kabuli_chr05	21648650	CC	TT	1946847804
SNP_P4_72495_21648701	NC_021164.1	Ca_kabuli_chr05	21648701	TT	GG	1946847806
SNP_P4_72496_21658675	NC_021164.1	Ca_kabuli_chr05	21658675	TT	AA	1946847808
SNP_P4_72497_21658682	NC_021164.1	Ca_kabuli_chr05	21658682	GG	TT	1946847810
SNP_P4_72498_21658704	NC_021164.1	Ca_kabuli_chr05	21658704	GG	TT	1946847812
SNP_P4_72499_21658842	NC_021164.1	Ca_kabuli_chr05	21658842	TT	AA	1946847814
SNP_P4_72500_21658966	NC_021164.1	Ca_kabuli_chr05	21658966	GG	AA	1946847816
SNP_P4_72501_21663556	NC_021164.1	Ca_kabuli_chr05	21663556	CC	TT	1946847818
SNP_P4_72502_21665858	NC_021164.1	Ca_kabuli_chr05	21665858	GG	CC	1946847820

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_72504_21665906	NC_021164.1	Ca_kabuli_chr05	21665906	GG	AA	1946847824
SNP_P4_72505_21665931	NC_021164.1	Ca_kabuli_chr05	21665931	GG	TT	1946847826
SNP_P4_72506_21666258	NC_021164.1	Ca_kabuli_chr05	21666258	TT	CC	1946847828
SNP_P4_72507_21670974	NC_021164.1	Ca_kabuli_chr05	21670974	CC	TT	1946847830
SNP_P4_72508_21670976	NC_021164.1	Ca_kabuli_chr05	21670976	AA	GG	1946847832
SNP_P4_72509_21671052	NC_021164.1	Ca_kabuli_chr05	21671052	CC	AA	1946847834
SNP_P4_72510_21675813	NC_021164.1	Ca_kabuli_chr05	21675813	AA	GG	1946847836
SNP_P4_72511_21681648	NC_021164.1	Ca_kabuli_chr05	21681648	GG	TT	1946847838
SNP_P4_72512_21681649	NC_021164.1	Ca_kabuli_chr05	21681649	TT	GG	1946847840
SNP_P4_72513_21681655	NC_021164.1	Ca_kabuli_chr05	21681655	CC	TT	1946847842
SNP_P4_72514_21683445	NC_021164.1	Ca_kabuli_chr05	21683445	CC	TT	1946847844
SNP_P4_72515_21684225	NC_021164.1	Ca_kabuli_chr05	21684225	AA	TT	1946847846
SNP_P4_72516_21684232	NC_021164.1	Ca_kabuli_chr05	21684232	GG	AA	1946847848
SNP_P4_72517_21684233	NC_021164.1	Ca_kabuli_chr05	21684233	TT	CC	1946847850
SNP_P4_72518_21684235	NC_021164.1	Ca_kabuli_chr05	21684235	TT	CC	1946847852
SNP_P4_72519_21684389	NC_021164.1	Ca_kabuli_chr05	21684389	AA	GG	1946847853
SNP_P4_72520_21684507	NC_021164.1	Ca_kabuli_chr05	21684507	CC	GG	1946847855
SNP_P4_72521_21684529	NC_021164.1	Ca_kabuli_chr05	21684529	AA	GG	1946847857
SNP_P4_72522_21684537	NC_021164.1	Ca_kabuli_chr05	21684537	TT	CC	1946847859
SNP_P4_72523_21684553	NC_021164.1	Ca_kabuli_chr05	21684553	CC	AA	1946847861
SNP_P4_72524_21684825	NC_021164.1	Ca_kabuli_chr05	21684825	GG	AA	1946847863
SNP_P4_72525_21684906	NC_021164.1	Ca_kabuli_chr05	21684906	GG	CC	1946847865
SNP_P4_72526_21684929	NC_021164.1	Ca_kabuli_chr05	21684929	CC	TT	1946847867
SNP_P4_72527_21692138	NC_021164.1	Ca_kabuli_chr05	21692138	AA	TT	1946847869
SNP_P4_72528_21692283	NC_021164.1	Ca_kabuli_chr05	21692283	GG	AA	1946847871
SNP_P4_72529_21692570	NC_021164.1	Ca_kabuli_chr05	21692570	GG	AA	1946847873
SNP_P4_72530_21692581	NC_021164.1	Ca_kabuli_chr05	21692581	TT	CC	1946847875
SNP_P4_72531_21692711	NC_021164.1	Ca_kabuli_chr05	21692711	AA	GG	1946847877
SNP_P4_72532_21693039	NC_021164.1	Ca_kabuli_chr05	21693039	CC	TT	1946847879
SNP_P4_72533_21693382	NC_021164.1	Ca_kabuli_chr05	21693382	AA	GG	1946847881
SNP_P4_72534_21693399	NC_021164.1	Ca_kabuli_chr05	21693399	AA	TT	1946847883
SNP_P4_72535_21693416	NC_021164.1	Ca_kabuli_chr05	21693416	CC	TT	1946847885
SNP_P4_72536_21693530	NC_021164.1	Ca_kabuli_chr05	21693530	TT	GG	1946847887
SNP_P4_72537_21693671	NC_021164.1	Ca_kabuli_chr05	21693671	GG	AA	1946847889
SNP_P4_72538_21693672	NC_021164.1	Ca_kabuli_chr05	21693672	TT	GG	1946847891
SNP_P4_72539_21698909	NC_021164.1	Ca_kabuli_chr05	21698909	GG	TT	1946847893
SNP_P4_72540_21698910	NC_021164.1	Ca_kabuli_chr05	21698910	CC	TT	1946847895
SNP_P4_72541_21699491	NC_021164.1	Ca_kabuli_chr05	21699491	CC	AA	1946847897
SNP_P4_72542_21699522	NC_021164.1	Ca_kabuli_chr05	21699522	GG	AA	1946847899
SNP_P4_72543_21699646	NC_021164.1	Ca_kabuli_chr05	21699646	TT	AA	1946847901
SNP_P4_72544_21714085	NC_021164.1	Ca_kabuli_chr05	21714085	CC	TT	1946847903

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_72546_21714097	NC_021164.1	Ca_kabuli_chr05	21714097	AA	TT	1946847907
SNP_P4_72547_21719090	NC_021164.1	Ca_kabuli_chr05	21719090	TT	GG	1946847909
SNP_P4_72548_21719111	NC_021164.1	Ca_kabuli_chr05	21719111	GG	CC	1946847911
SNP_P4_72549_21720786	NC_021164.1	Ca_kabuli_chr05	21720786	CC	TT	1946847913
SNP_P4_72550_21720826	NC_021164.1	Ca_kabuli_chr05	21720826	AA	CC	1946847915
SNP_P4_72551_21720843	NC_021164.1	Ca_kabuli_chr05	21720843	CC	GG	1946847916
SNP_P4_72552_21721001	NC_021164.1	Ca_kabuli_chr05	21721001	CC	TT	1946847918
SNP_P4_72553_21723302	NC_021164.1	Ca_kabuli_chr05	21723302	TT	CC	1946847920
SNP_P4_72554_21723696	NC_021164.1	Ca_kabuli_chr05	21723696	TT	GG	1946847922
SNP_P4_72555_21723945	NC_021164.1	Ca_kabuli_chr05	21723945	GG	AA	1946847924
SNP_P4_72556_21726057	NC_021164.1	Ca_kabuli_chr05	21726057	GG	AA	1946847926
SNP_P4_72557_21727759	NC_021164.1	Ca_kabuli_chr05	21727759	TT	AA	1946847928
SNP_P4_72558_21740618	NC_021164.1	Ca_kabuli_chr05	21740618	CC	TT	1946847930
SNP_P4_72559_21740678	NC_021164.1	Ca_kabuli_chr05	21740678	AA	GG	1946847932
SNP_P4_72560_21740920	NC_021164.1	Ca_kabuli_chr05	21740920	TT	CC	1946847934
SNP_P4_72561_21740939	NC_021164.1	Ca_kabuli_chr05	21740939	TT	CC	1946847936
SNP_P4_72562_21740948	NC_021164.1	Ca_kabuli_chr05	21740948	CC	TT	1946847938
SNP_P4_72563_21740970	NC_021164.1	Ca_kabuli_chr05	21740970	TT	CC	1946847940
SNP_P4_72564_21740972	NC_021164.1	Ca_kabuli_chr05	21740972	TT	AA	1946847942
SNP_P4_72565_21740990	NC_021164.1	Ca_kabuli_chr05	21740990	CC	TT	1946847944
SNP_P4_72566_21741001	NC_021164.1	Ca_kabuli_chr05	21741001	AA	CC	1946847946
SNP_P4_72567_21741063	NC_021164.1	Ca_kabuli_chr05	21741063	CC	TT	1946847948
SNP_P4_72568_21745782	NC_021164.1	Ca_kabuli_chr05	21745782	AA	TT	1946847949
SNP_P4_72569_21746170	NC_021164.1	Ca_kabuli_chr05	21746170	TT	CC	1946847951
SNP_P4_72570_21746172	NC_021164.1	Ca_kabuli_chr05	21746172	TT	CC	1946847953
SNP_P4_72571_21746181	NC_021164.1	Ca_kabuli_chr05	21746181	TT	CC	1946847955
SNP_P4_72572_21746241	NC_021164.1	Ca_kabuli_chr05	21746241	TT	GG	1946847957
SNP_P4_72574_21755230	NC_021164.1	Ca_kabuli_chr05	21755230	AA	GG	1946847959
SNP_P4_72576_21785992	NC_021164.1	Ca_kabuli_chr05	21785992	CC	AA	1946847961
SNP_P4_72577_21786261	NC_021164.1	Ca_kabuli_chr05	21786261	CC	TT	1946847963
SNP_P4_72578_21822450	NC_021164.1	Ca_kabuli_chr05	21822450	GG	TT	1946847966
SNP_P4_72579_21822475	NC_021164.1	Ca_kabuli_chr05	21822475	GG	AA	1946847968
SNP_P4_72580_21822477	NC_021164.1	Ca_kabuli_chr05	21822477	TT	CC	1946847970
SNP_P4_72581_21822478	NC_021164.1	Ca_kabuli_chr05	21822478	GG	AA	1946847972
SNP_P4_72582_21822479	NC_021164.1	Ca_kabuli_chr05	21822479	AA	GG	1946847974
SNP_P4_72583_21822501	NC_021164.1	Ca_kabuli_chr05	21822501	AA	GG	1946847976
SNP_P4_72584_21822511	NC_021164.1	Ca_kabuli_chr05	21822511	AA	CC	1946847978
SNP_P4_72585_21822514	NC_021164.1	Ca_kabuli_chr05	21822514	TT	GG	1946847980
SNP_P4_72586_21822536	NC_021164.1	Ca_kabuli_chr05	21822536	TT	GG	1946847982
SNP_P4_72587_21822920	NC_021164.1	Ca_kabuli_chr05	21822920	TT	CC	1946847984
SNP_P4_72588_21844419	NC_021164.1	Ca_kabuli_chr05	21844419	CC	TT	1946847986

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_72589_21845212	NC_021164.1	Ca_kabuli_chr05	21845212	GG	AA	1946847988
SNP_P4_72590_21845225	NC_021164.1	Ca_kabuli_chr05	21845225	TT	CC	1946847990
SNP_P4_72591_21846422	NC_021164.1	Ca_kabuli_chr05	21846422	GG	AA	1946847992
SNP_P4_72592_21846444	NC_021164.1	Ca_kabuli_chr05	21846444	TT	AA	1946847994
SNP_P4_72593_21846449	NC_021164.1	Ca_kabuli_chr05	21846449	AA	GG	1946847996
SNP_P4_72594_21846562	NC_021164.1	Ca_kabuli_chr05	21846562	GG	TT	1946847998
SNP_P4_72595_21846567	NC_021164.1	Ca_kabuli_chr05	21846567	AA	TT	1946848000
SNP_P4_72596_21846608	NC_021164.1	Ca_kabuli_chr05	21846608	GG	AA	1946848002
SNP_P4_72597_21846662	NC_021164.1	Ca_kabuli_chr05	21846662	TT	GG	1946848004
SNP_P4_72598_21846677	NC_021164.1	Ca_kabuli_chr05	21846677	TT	CC	1946848006
SNP_P4_72599_21846685	NC_021164.1	Ca_kabuli_chr05	21846685	AA	GG	1946848008
SNP_P4_72600_21846725	NC_021164.1	Ca_kabuli_chr05	21846725	AA	CC	1946848010
SNP_P4_72601_21846807	NC_021164.1	Ca_kabuli_chr05	21846807	AA	TT	1946848012
SNP_P4_72602_21846827	NC_021164.1	Ca_kabuli_chr05	21846827	AA	CC	1946848014
SNP_P4_72603_21846832	NC_021164.1	Ca_kabuli_chr05	21846832	AA	GG	1946848016
SNP_P4_72604_21846876	NC_021164.1	Ca_kabuli_chr05	21846876	AA	GG	1946848018
SNP_P4_72605_21851286	NC_021164.1	Ca_kabuli_chr05	21851286	GG	TT	1946848020
SNP_P4_72606_21851290	NC_021164.1	Ca_kabuli_chr05	21851290	GG	AA	1946848022
SNP_P4_72607_21851369	NC_021164.1	Ca_kabuli_chr05	21851369	TT	GG	1946848024
SNP_P4_72608_21853701	NC_021164.1	Ca_kabuli_chr05	21853701	TT	CC	1946848026
SNP_P4_72609_21853717	NC_021164.1	Ca_kabuli_chr05	21853717	TT	GG	1946848028
SNP_P4_72611_21865103	NC_021164.1	Ca_kabuli_chr05	21865103	TT	CC	1946848030
SNP_P4_72612_21865444	NC_021164.1	Ca_kabuli_chr05	21865444	TT	CC	1946848032
SNP_P4_72613_21865477	NC_021164.1	Ca_kabuli_chr05	21865477	GG	TT	1946848034
SNP_P4_72614_21865490	NC_021164.1	Ca_kabuli_chr05	21865490	TT	CC	1946848036
SNP_P4_72615_21865540	NC_021164.1	Ca_kabuli_chr05	21865540	AA	GG	1946848038
SNP_P4_72616_21865543	NC_021164.1	Ca_kabuli_chr05	21865543	AA	GG	1946848040
SNP_P4_72618_21867725	NC_021164.1	Ca_kabuli_chr05	21867725	TT	CC	1946848042
SNP_P4_72619_21867734	NC_021164.1	Ca_kabuli_chr05	21867734	AA	GG	1946848044
SNP_P4_72620_21867781	NC_021164.1	Ca_kabuli_chr05	21867781	TT	AA	1946848046
SNP_P4_72621_21867902	NC_021164.1	Ca_kabuli_chr05	21867902	TT	GG	1946848048
SNP_P4_72622_21867963	NC_021164.1	Ca_kabuli_chr05	21867963	AA	GG	1946848050
SNP_P4_72623_21867965	NC_021164.1	Ca_kabuli_chr05	21867965	AA	GG	1946848052
SNP_P4_72624_21867967	NC_021164.1	Ca_kabuli_chr05	21867967	TT	CC	1946848054
SNP_P4_72625_21891779	NC_021164.1	Ca_kabuli_chr05	21891779	TT	CC	1946848056
SNP_P4_72626_21891815	NC_021164.1	Ca_kabuli_chr05	21891815	AA	GG	1946848058
SNP_P4_72627_21892004	NC_021164.1	Ca_kabuli_chr05	21892004	AA	GG	1946848060
SNP_P4_72628_21894619	NC_021164.1	Ca_kabuli_chr05	21894619	TT	CC	1946848062
SNP_P4_72629_21894925	NC_021164.1	Ca_kabuli_chr05	21894925	TT	CC	1946848064
SNP_P4_72630_21894939	NC_021164.1	Ca_kabuli_chr05	21894939	AA	GG	1946848066
SNP_P4_72631_21898491	NC_021164.1	Ca_kabuli_chr05	21898491	GG	CC	1946848068
SNP_P4_72632_21898552	NC_021164.1	Ca_kabuli_chr05	21898552	GG	AA	1946848070

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_72635_21900721	NC_021164.1	Ca_kabuli_chr05	21900721	AA	GG	1946848074
SNP_P4_72636_21900803	NC_021164.1	Ca_kabuli_chr05	21900803	GG	AA	1946848076
SNP_P4_72637_21900809	NC_021164.1	Ca_kabuli_chr05	21900809	AA	GG	1946848078
SNP_P4_72638_21901069	NC_021164.1	Ca_kabuli_chr05	21901069	TT	CC	1946848080
SNP_P4_72639_21901094	NC_021164.1	Ca_kabuli_chr05	21901094	GG	AA	1946848082
SNP_P4_72640_21901113	NC_021164.1	Ca_kabuli_chr05	21901113	TT	CC	1946848084
SNP_P4_72641_21901124	NC_021164.1	Ca_kabuli_chr05	21901124	GG	TT	1946848086
SNP_P4_72642_21901149	NC_021164.1	Ca_kabuli_chr05	21901149	AA	CC	1946848088
SNP_P4_72643_21901206	NC_021164.1	Ca_kabuli_chr05	21901206	AA	CC	1946848091
SNP_P4_72644_21901207	NC_021164.1	Ca_kabuli_chr05	21901207	TT	GG	1946848093
SNP_P4_72645_21901208	NC_021164.1	Ca_kabuli_chr05	21901208	GG	AA	1946848095
SNP_P4_72646_21901224	NC_021164.1	Ca_kabuli_chr05	21901224	GG	TT	1946848097
SNP_P4_72647_21908414	NC_021164.1	Ca_kabuli_chr05	21908414	TT	CC	1946848099
SNP_P4_72648_21909051	NC_021164.1	Ca_kabuli_chr05	21909051	CC	TT	1946848101
SNP_P4_72649_21909350	NC_021164.1	Ca_kabuli_chr05	21909350	TT	CC	1946848103
SNP_P4_72650_21918442	NC_021164.1	Ca_kabuli_chr05	21918442	TT	CC	1946848105
SNP_P4_72651_21918445	NC_021164.1	Ca_kabuli_chr05	21918445	TT	CC	1946848107
SNP_P4_72652_21918804	NC_021164.1	Ca_kabuli_chr05	21918804	AA	CC	1946848109
SNP_P4_72653_21918813	NC_021164.1	Ca_kabuli_chr05	21918813	AA	GG	1946848111
SNP_P4_72654_21918846	NC_021164.1	Ca_kabuli_chr05	21918846	TT	CC	1946848113
SNP_P4_72655_21918863	NC_021164.1	Ca_kabuli_chr05	21918863	CC	GG	1946848115
SNP_P4_72656_21918870	NC_021164.1	Ca_kabuli_chr05	21918870	CC	TT	1946848117
SNP_P4_72657_21918876	NC_021164.1	Ca_kabuli_chr05	21918876	AA	GG	1946848119
SNP_P4_72658_21921123	NC_021164.1	Ca_kabuli_chr05	21921123	TT	AA	1946848121
SNP_P4_72659_21921362	NC_021164.1	Ca_kabuli_chr05	21921362	TT	GG	1946848123
SNP_P4_72660_21921387	NC_021164.1	Ca_kabuli_chr05	21921387	GG	AA	1946848125
SNP_P4_72661_21921388	NC_021164.1	Ca_kabuli_chr05	21921388	TT	GG	1946848127
SNP_P4_72662_21921402	NC_021164.1	Ca_kabuli_chr05	21921402	CC	AA	1946848129
SNP_P4_72663_21921472	NC_021164.1	Ca_kabuli_chr05	21921472	TT	AA	1946848131
SNP_P4_72664_21921528	NC_021164.1	Ca_kabuli_chr05	21921528	AA	TT	1946848133
SNP_P4_72665_21921543	NC_021164.1	Ca_kabuli_chr05	21921543	TT	AA	1946848135
SNP_P4_72666_21921547	NC_021164.1	Ca_kabuli_chr05	21921547	GG	CC	1946848137
SNP_P4_72667_21921590	NC_021164.1	Ca_kabuli_chr05	21921590	TT	GG	1946848139
SNP_P4_72668_21921609	NC_021164.1	Ca_kabuli_chr05	21921609	TT	CC	1946848141
SNP_P4_72669_21921665	NC_021164.1	Ca_kabuli_chr05	21921665	AA	GG	1946848143
SNP_P4_72670_21921783	NC_021164.1	Ca_kabuli_chr05	21921783	TT	AA	1946848145
SNP_P4_72671_21921803	NC_021164.1	Ca_kabuli_chr05	21921803	TT	AA	1946848147
SNP_P4_72672_21944872	NC_021164.1	Ca_kabuli_chr05	21944872	GG	AA	1946848149
SNP_P4_72675_22003166	NC_021164.1	Ca_kabuli_chr05	22003166	TT	CC	1946848151
SNP_P4_72676_22020648	NC_021164.1	Ca_kabuli_chr05	22020648	TT	CC	1946848153
SNP_P4_72677_22052624	NC_021164.1	Ca_kabuli_chr05	22052624	GG	CC	1946848156

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_72679_22058575	NC_021164.1	Ca_kabuli_chr05	22058575	AA	GG	1946848160
SNP_P4_72680_22060397	NC_021164.1	Ca_kabuli_chr05	22060397	TT	GG	1946848162
SNP_P4_72684_22140842	NC_021164.1	Ca_kabuli_chr05	22140842	AA	GG	1946848164
SNP_P4_72685_22144960	NC_021164.1	Ca_kabuli_chr05	22144960	AA	CC	1946848166
SNP_P4_72688_22205883	NC_021164.1	Ca_kabuli_chr05	22205883	AA	TT	1946848168
SNP_P4_72689_22205901	NC_021164.1	Ca_kabuli_chr05	22205901	CC	TT	1946848170
SNP_P4_72690_22205934	NC_021164.1	Ca_kabuli_chr05	22205934	TT	GG	1946848172
SNP_P4_72692_22208806	NC_021164.1	Ca_kabuli_chr05	22208806	GG	AA	1946848174
SNP_P4_72693_22208813	NC_021164.1	Ca_kabuli_chr05	22208813	GG	TT	1946848176
SNP_P4_72694_22208814	NC_021164.1	Ca_kabuli_chr05	22208814	GG	AA	1946848178
SNP_P4_72695_22209036	NC_021164.1	Ca_kabuli_chr05	22209036	AA	GG	1946848180
SNP_P4_72696_22210180	NC_021164.1	Ca_kabuli_chr05	22210180	TT	CC	1946848182
SNP_P4_72697_22210200	NC_021164.1	Ca_kabuli_chr05	22210200	CC	GG	1946848184
SNP_P4_72698_22210338	NC_021164.1	Ca_kabuli_chr05	22210338	TT	AA	1946848186
SNP_P4_72699_22210629	NC_021164.1	Ca_kabuli_chr05	22210629	GG	AA	1946848188
SNP_P4_72700_22210632	NC_021164.1	Ca_kabuli_chr05	22210632	GG	AA	1946848190
SNP_P4_72701_22210637	NC_021164.1	Ca_kabuli_chr05	22210637	TT	CC	1946848192
SNP_P4_72702_22217445	NC_021164.1	Ca_kabuli_chr05	22217445	TT	CC	1946848194
SNP_P4_72704_22279101	NC_021164.1	Ca_kabuli_chr05	22279101	GG	AA	1946848196
SNP_P4_72705_22291211	NC_021164.1	Ca_kabuli_chr05	22291211	TT	CC	1946848198
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SNP_P4_72707_22293745	NC_021164.1	Ca_kabuli_chr05	22293745	AA	GG	1946848203
SNP_P4_72708_22293768	NC_021164.1	Ca_kabuli_chr05	22293768	TT	CC	1946848205
SNP_P4_72709_22293778	NC_021164.1	Ca_kabuli_chr05	22293778	TT	CC	1946848207
SNP_P4_72710_22293826	NC_021164.1	Ca_kabuli_chr05	22293826	TT	CC	1946848209
SNP_P4_72711_22293909	NC_021164.1	Ca_kabuli_chr05	22293909	TT	AA	1946848211
SNP_P4_72712_22294110	NC_021164.1	Ca_kabuli_chr05	22294110	AA	GG	1946848213
SNP_P4_72713_22294142	NC_021164.1	Ca_kabuli_chr05	22294142	GG	AA	1946848215
SNP_P4_72714_22294156	NC_021164.1	Ca_kabuli_chr05	22294156	GG	AA	1946848217
SNP_P4_72715_22294157	NC_021164.1	Ca_kabuli_chr05	22294157	TT	CC	1946848219
SNP_P4_72716_22294175	NC_021164.1	Ca_kabuli_chr05	22294175	GG	AA	1946848221
SNP_P4_72717_22294247	NC_021164.1	Ca_kabuli_chr05	22294247	CC	TT	1946848223
SNP_P4_72718_22294329	NC_021164.1	Ca_kabuli_chr05	22294329	AA	GG	1946848225
SNP_P4_72719_22294596	NC_021164.1	Ca_kabuli_chr05	22294596	CC	TT	1946848226
SNP_P4_72720_22294607	NC_021164.1	Ca_kabuli_chr05	22294607	TT	CC	1946848228
SNP_P4_72721_22325909	NC_021164.1	Ca_kabuli_chr05	22325909	CC	AA	1946848230
SNP_P4_72722_22340812	NC_021164.1	Ca_kabuli_chr05	22340812	CC	TT	1946848232
SNP_P4_72724_22380898	NC_021164.1	Ca_kabuli_chr05	22380898	CC	TT	1946848234
SNP_P4_72725_22382212	NC_021164.1	Ca_kabuli_chr05	22382212	TT	CC	1946848236
SNP_P4_72727_22401676	NC_021164.1	Ca_kabuli_chr05	22401676	TT	CC	1946848238
SNP_P4_72728_22401678	NC_021164.1	Ca_kabuli_chr05	22401678	GG	TT	1946848240

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_72730_22413301	NC_021164.1	Ca_kabuli_chr05	22413301	GG	AA	1946848244
SNP_P4_72731_22428521	NC_021164.1	Ca_kabuli_chr05	22428521	CC	TT	1946848246
SNP_P4_72732_22451722	NC_021164.1	Ca_kabuli_chr05	22451722	AA	GG	1946848248
SNP_P4_72734_22492041	NC_021164.1	Ca_kabuli_chr05	22492041	GG	AA	1946848250
SNP_P4_72735_22513598	NC_021164.1	Ca_kabuli_chr05	22513598	GG	AA	1946848252
SNP_P4_72736_22530793	NC_021164.1	Ca_kabuli_chr05	22530793	AA	CC	1946848254
SNP_P4_72737_22544087	NC_021164.1	Ca_kabuli_chr05	22544087	TT	CC	1946848256
SNP_P4_72738_22544376	NC_021164.1	Ca_kabuli_chr05	22544376	TT	CC	1946848258
SNP_P4_72739_22554519	NC_021164.1	Ca_kabuli_chr05	22554519	CC	AA	1946848260
SNP_P4_72740_22573026	NC_021164.1	Ca_kabuli_chr05	22573026	GG	TT	1946848262
SNP_P4_72742_22615555	NC_021164.1	Ca_kabuli_chr05	22615555	CC	TT	1946848264
SNP_P4_72743_22616048	NC_021164.1	Ca_kabuli_chr05	22616048	TT	AA	1946848266
SNP_P4_72744_22616312	NC_021164.1	Ca_kabuli_chr05	22616312	CC	AA	1946848269
SNP_P4_72745_22648438	NC_021164.1	Ca_kabuli_chr05	22648438	TT	CC	1946848271
SNP_P4_72746_22659192	NC_021164.1	Ca_kabuli_chr05	22659192	AA	GG	1946848273
SNP_P4_72747_22659218	NC_021164.1	Ca_kabuli_chr05	22659218	CC	GG	1946848275
SNP_P4_72749_22664344	NC_021164.1	Ca_kabuli_chr05	22664344	AA	CC	1946848277
SNP_P4_72750_22667893	NC_021164.1	Ca_kabuli_chr05	22667893	CC	TT	1946848279
SNP_P4_72751_22668897	NC_021164.1	Ca_kabuli_chr05	22668897	AA	GG	1946848281
SNP_P4_72752_22668920	NC_021164.1	Ca_kabuli_chr05	22668920	CC	AA	1946848283
SNP_P4_72753_22691809	NC_021164.1	Ca_kabuli_chr05	22691809	GG	CC	1946848285
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SNP_P4_72756_22691831	NC_021164.1	Ca_kabuli_chr05	22691831	TT	GG	1946848291
SNP_P4_72757_22691832	NC_021164.1	Ca_kabuli_chr05	22691832	GG	CC	1946848293
SNP_P4_72758_22691841	NC_021164.1	Ca_kabuli_chr05	22691841	CC	AA	1946848295
SNP_P4_72759_22691844	NC_021164.1	Ca_kabuli_chr05	22691844	CC	GG	1946848297
SNP_P4_72760_22691874	NC_021164.1	Ca_kabuli_chr05	22691874	CC	AA	1946848299
SNP_P4_72761_22691876	NC_021164.1	Ca_kabuli_chr05	22691876	TT	GG	1946848301
SNP_P4_72762_22691880	NC_021164.1	Ca_kabuli_chr05	22691880	GG	AA	1946848303
SNP_P4_72763_22691910	NC_021164.1	Ca_kabuli_chr05	22691910	TT	CC	1946848305
SNP_P4_72764_22691957	NC_021164.1	Ca_kabuli_chr05	22691957	CC	GG	1946848307
SNP_P4_72765_22691958	NC_021164.1	Ca_kabuli_chr05	22691958	AA	GG	1946848309
SNP_P4_72766_22692002	NC_021164.1	Ca_kabuli_chr05	22692002	TT	CC	1946848311
SNP_P4_72768_22693505	NC_021164.1	Ca_kabuli_chr05	22693505	AA	TT	1946848313
SNP_P4_72769_22693788	NC_021164.1	Ca_kabuli_chr05	22693788	GG	TT	1946848315
SNP_P4_72770_22693789	NC_021164.1	Ca_kabuli_chr05	22693789	AA	CC	1946848317
SNP_P4_72771_22693936	NC_021164.1	Ca_kabuli_chr05	22693936	CC	AA	1946848319
SNP_P4_72772_22694037	NC_021164.1	Ca_kabuli_chr05	22694037	CC	AA	1946848321
SNP_P4_72773_22694063	NC_021164.1	Ca_kabuli_chr05	22694063	AA	GG	1946848323
SNP_P4_72774_22695590	NC_021164.1	Ca_kabuli_chr05	22695590	TT	CC	1946848325

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_72777_22726987	NC_021164.1	Ca_kabuli_chr05	22726987	AA	TT	1946848329
SNP_P4_72778_22727365	NC_021164.1	Ca_kabuli_chr05	22727365	AA	TT	1946848331
SNP_P4_72779_22727366	NC_021164.1	Ca_kabuli_chr05	22727366	AA	TT	1946848333
SNP_P4_72782_22752254	NC_021164.1	Ca_kabuli_chr05	22752254	CC	TT	1946848335
SNP_P4_72784_22800625	NC_021164.1	Ca_kabuli_chr05	22800625	CC	TT	1946848337
SNP_P4_72785_22864595	NC_021164.1	Ca_kabuli_chr05	22864595	TT	CC	1946848339
SNP_P4_72786_22864602	NC_021164.1	Ca_kabuli_chr05	22864602	CC	TT	1946848341
SNP_P4_72787_22864635	NC_021164.1	Ca_kabuli_chr05	22864635	TT	CC	1946848343
SNP_P4_72788_22864643	NC_021164.1	Ca_kabuli_chr05	22864643	AA	GG	1946848345
SNP_P4_72789_22864767	NC_021164.1	Ca_kabuli_chr05	22864767	GG	AA	1946848347
SNP_P4_72790_22865575	NC_021164.1	Ca_kabuli_chr05	22865575	TT	CC	1946848349
SNP_P4_72791_22866034	NC_021164.1	Ca_kabuli_chr05	22866034	AA	CC	1946848351
SNP_P4_72792_22866105	NC_021164.1	Ca_kabuli_chr05	22866105	GG	AA	1946848353
SNP_P4_72793_22867431	NC_021164.1	Ca_kabuli_chr05	22867431	TT	CC	1946848355
SNP_P4_72794_22867454	NC_021164.1	Ca_kabuli_chr05	22867454	TT	CC	1946848357
SNP_P4_72795_22867618	NC_021164.1	Ca_kabuli_chr05	22867618	AA	GG	1946848359
SNP_P4_72796_22867876	NC_021164.1	Ca_kabuli_chr05	22867876	GG	AA	1946848362
SNP_P4_72797_22867956	NC_021164.1	Ca_kabuli_chr05	22867956	AA	GG	1946848364
SNP_P4_72798_22868003	NC_021164.1	Ca_kabuli_chr05	22868003	GG	AA	1946848366
SNP_P4_72799_22879766	NC_021164.1	Ca_kabuli_chr05	22879766	CC	AA	1946848368
SNP_P4_72800_22879854	NC_021164.1	Ca_kabuli_chr05	22879854	GG	AA	1946848370
SNP_P4_72801_22879856	NC_021164.1	Ca_kabuli_chr05	22879856	CC	GG	1946848372
SNP_P4_72802_22880160	NC_021164.1	Ca_kabuli_chr05	22880160	CC	AA	1946848374
SNP_P4_72803_22880346	NC_021164.1	Ca_kabuli_chr05	22880346	CC	TT	1946848376
SNP_P4_72804_22890875	NC_021164.1	Ca_kabuli_chr05	22890875	GG	AA	1946848378
SNP_P4_72805_22896273	NC_021164.1	Ca_kabuli_chr05	22896273	TT	CC	1946848380
SNP_P4_72806_22906559	NC_021164.1	Ca_kabuli_chr05	22906559	AA	GG	1946848382
SNP_P4_72807_22918209	NC_021164.1	Ca_kabuli_chr05	22918209	AA	GG	1946848384
SNP_P4_72808_22918247	NC_021164.1	Ca_kabuli_chr05	22918247	GG	AA	1946848386
SNP_P4_72809_22918293	NC_021164.1	Ca_kabuli_chr05	22918293	AA	TT	1946848388
SNP_P4_72810_22918353	NC_021164.1	Ca_kabuli_chr05	22918353	TT	CC	1946848390
SNP_P4_72811_22918357	NC_021164.1	Ca_kabuli_chr05	22918357	CC	TT	1946848392
SNP_P4_72812_22918439	NC_021164.1	Ca_kabuli_chr05	22918439	CC	GG	1946848394
SNP_P4_72815_22918579	NC_021164.1	Ca_kabuli_chr05	22918579	AA	TT	1946848396
SNP_P4_72816_22918580	NC_021164.1	Ca_kabuli_chr05	22918580	TT	GG	1946848398
SNP_P4_72817_22918582	NC_021164.1	Ca_kabuli_chr05	22918582	AA	GG	1946848400
SNP_P4_72818_22918600	NC_021164.1	Ca_kabuli_chr05	22918600	CC	GG	1946848402
SNP_P4_72819_22918622	NC_021164.1	Ca_kabuli_chr05	22918622	CC	TT	1946848404
SNP_P4_72820_22918640	NC_021164.1	Ca_kabuli_chr05	22918640	AA	TT	1946848406
SNP_P4_72821_22918677	NC_021164.1	Ca_kabuli_chr05	22918677	AA	GG	1946848408
SNP_P4_72822_22918684	NC_021164.1	Ca_kabuli_chr05	22918684	TT	CC	1946848410

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_72824_22918694	NC_021164.1	Ca_kabuli_chr05	22918694	TT	CC	1946848414
SNP_P4_72825_22918855	NC_021164.1	Ca_kabuli_chr05	22918855	CC	TT	1946848415
SNP_P4_72826_22918863	NC_021164.1	Ca_kabuli_chr05	22918863	TT	AA	1946848417
SNP_P4_72827_22918880	NC_021164.1	Ca_kabuli_chr05	22918880	CC	GG	1946848419
SNP_P4_72828_22918883	NC_021164.1	Ca_kabuli_chr05	22918883	AA	GG	1946848421
SNP_P4_72829_22919267	NC_021164.1	Ca_kabuli_chr05	22919267	AA	TT	1946848423
SNP_P4_72830_22919298	NC_021164.1	Ca_kabuli_chr05	22919298	GG	AA	1946848425
SNP_P4_72831_22919314	NC_021164.1	Ca_kabuli_chr05	22919314	TT	AA	1946848427
SNP_P4_72832_22919387	NC_021164.1	Ca_kabuli_chr05	22919387	AA	GG	1946848429
SNP_P4_72833_22919393	NC_021164.1	Ca_kabuli_chr05	22919393	TT	AA	1946848431
SNP_P4_72834_22919430	NC_021164.1	Ca_kabuli_chr05	22919430	AA	GG	1946848433
SNP_P4_72835_22919484	NC_021164.1	Ca_kabuli_chr05	22919484	TT	CC	1946848435
SNP_P4_72836_22919514	NC_021164.1	Ca_kabuli_chr05	22919514	TT	GG	1946848437
SNP_P4_72837_22919534	NC_021164.1	Ca_kabuli_chr05	22919534	GG	AA	1946848439
SNP_P4_72838_22919601	NC_021164.1	Ca_kabuli_chr05	22919601	CC	GG	1946848441
SNP_P4_72840_22919703	NC_021164.1	Ca_kabuli_chr05	22919703	GG	AA	1946848443
SNP_P4_72842_22919734	NC_021164.1	Ca_kabuli_chr05	22919734	GG	AA	1946848445
SNP_P4_72843_22919760	NC_021164.1	Ca_kabuli_chr05	22919760	TT	CC	1946848446
SNP_P4_72844_22919777	NC_021164.1	Ca_kabuli_chr05	22919777	CC	AA	1946848448
SNP_P4_72845_22928381	NC_021164.1	Ca_kabuli_chr05	22928381	TT	CC	1946848450
SNP_P4_72846_22928382	NC_021164.1	Ca_kabuli_chr05	22928382	GG	TT	1946848452
SNP_P4_72847_22928409	NC_021164.1	Ca_kabuli_chr05	22928409	GG	AA	1946848454
SNP_P4_72848_22928427	NC_021164.1	Ca_kabuli_chr05	22928427	CC	AA	1946848456
SNP_P4_72849_22952088	NC_021164.1	Ca_kabuli_chr05	22952088	CC	TT	1946848458
SNP_P4_72850_22952323	NC_021164.1	Ca_kabuli_chr05	22952323	GG	AA	1946848460
SNP_P4_72851_22954113	NC_021164.1	Ca_kabuli_chr05	22954113	TT	CC	1946848462
SNP_P4_72852_22960155	NC_021164.1	Ca_kabuli_chr05	22960155	GG	AA	1946848464
SNP_P4_72853_22960168	NC_021164.1	Ca_kabuli_chr05	22960168	TT	CC	1946848466
SNP_P4_72854_22960169	NC_021164.1	Ca_kabuli_chr05	22960169	CC	AA	1946848468
SNP_P4_72855_22960186	NC_021164.1	Ca_kabuli_chr05	22960186	CC	TT	1946848470
SNP_P4_72856_22961372	NC_021164.1	Ca_kabuli_chr05	22961372	TT	CC	1946848472
SNP_P4_72858_23037194	NC_021164.1	Ca_kabuli_chr05	23037194	CC	AA	1946848473
SNP_P4_72859_23050152	NC_021164.1	Ca_kabuli_chr05	23050152	AA	GG	1946848475
SNP_P4_72861_23085223	NC_021164.1	Ca_kabuli_chr05	23085223	AA	GG	1946848477
SNP_P4_72862_23096845	NC_021164.1	Ca_kabuli_chr05	23096845	CC	TT	1946848479
SNP_P4_72863_23096939	NC_021164.1	Ca_kabuli_chr05	23096939	CC	TT	1946848481
SNP_P4_72864_23099260	NC_021164.1	Ca_kabuli_chr05	23099260	GG	TT	1946848483
SNP_P4_72866_23164818	NC_021164.1	Ca_kabuli_chr05	23164818	CC	AA	1946848485
SNP_P4_72867_23165902	NC_021164.1	Ca_kabuli_chr05	23165902	TT	GG	1946848487
SNP_P4_72870_23191302	NC_021164.1	Ca_kabuli_chr05	23191302	CC	AA	1946848489
SNP_P4_72871_23217483	NC_021164.1	Ca_kabuli_chr05	23217483	AA	GG	1946848491

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_72873_23219924	NC_021164.1	Ca_kabuli_chr05	23219924	GG	AA	1946848495
SNP_P4_72874_23246623	NC_021164.1	Ca_kabuli_chr05	23246623	TT	AA	1946848496
SNP_P4_72875_23247963	NC_021164.1	Ca_kabuli_chr05	23247963	CC	TT	1946848498
SNP_P4_72877_23336109	NC_021164.1	Ca_kabuli_chr05	23336109	TT	AA	1946848500
SNP_P4_72878_23336129	NC_021164.1	Ca_kabuli_chr05	23336129	TT	AA	1946848502
SNP_P4_72879_23336130	NC_021164.1	Ca_kabuli_chr05	23336130	AA	TT	1946848504
SNP_P4_72880_23336151	NC_021164.1	Ca_kabuli_chr05	23336151	CC	TT	1946848506
SNP_P4_72881_23336212	NC_021164.1	Ca_kabuli_chr05	23336212	AA	CC	1946848508
SNP_P4_72882_23336462	NC_021164.1	Ca_kabuli_chr05	23336462	GG	TT	1946848510
SNP_P4_72883_23336547	NC_021164.1	Ca_kabuli_chr05	23336547	TT	AA	1946848512
SNP_P4_72884_23336556	NC_021164.1	Ca_kabuli_chr05	23336556	AA	GG	1946848514
SNP_P4_72885_23336615	NC_021164.1	Ca_kabuli_chr05	23336615	AA	GG	1946848516
SNP_P4_72886_23336651	NC_021164.1	Ca_kabuli_chr05	23336651	GG	AA	1946848518
SNP_P4_72887_23336730	NC_021164.1	Ca_kabuli_chr05	23336730	CC	AA	1946848520
SNP_P4_72888_23342599	NC_021164.1	Ca_kabuli_chr05	23342599	GG	TT	1946848522
SNP_P4_72889_23352213	NC_021164.1	Ca_kabuli_chr05	23352213	TT	AA	1946848524
SNP_P4_72890_23352449	NC_021164.1	Ca_kabuli_chr05	23352449	GG	AA	1946848526
SNP_P4_72891_23352485	NC_021164.1	Ca_kabuli_chr05	23352485	AA	TT	1946848528
SNP_P4_72892_23356005	NC_021164.1	Ca_kabuli_chr05	23356005	TT	AA	1946848529
SNP_P4_72893_23356014	NC_021164.1	Ca_kabuli_chr05	23356014	CC	TT	1946848531
SNP_P4_72894_23381473	NC_021164.1	Ca_kabuli_chr05	23381473	AA	CC	1946848533
SNP_P4_72895_23406363	NC_021164.1	Ca_kabuli_chr05	23406363	GG	TT	1946848535
SNP_P4_72896_23425243	NC_021164.1	Ca_kabuli_chr05	23425243	GG	AA	1946848537
SNP_P4_72897_23429678	NC_021164.1	Ca_kabuli_chr05	23429678	GG	TT	1946848539
SNP_P4_72898_23462452	NC_021164.1	Ca_kabuli_chr05	23462452	GG	TT	1946848541
SNP_P4_72899_23462461	NC_021164.1	Ca_kabuli_chr05	23462461	TT	CC	1946848544
SNP_P4_72900_23464788	NC_021164.1	Ca_kabuli_chr05	23464788	CC	GG	1946848546
SNP_P4_72901_23464795	NC_021164.1	Ca_kabuli_chr05	23464795	TT	CC	1946848548
SNP_P4_72902_23464819	NC_021164.1	Ca_kabuli_chr05	23464819	GG	TT	1946848550
SNP_P4_72903_23470581	NC_021164.1	Ca_kabuli_chr05	23470581	CC	TT	1946848551
SNP_P4_72904_23485413	NC_021164.1	Ca_kabuli_chr05	23485413	CC	TT	1946848553
SNP_P4_72905_23487805	NC_021164.1	Ca_kabuli_chr05	23487805	GG	AA	1946848555
SNP_P4_72906_23487809	NC_021164.1	Ca_kabuli_chr05	23487809	AA	TT	1946848557
SNP_P4_72907_23488117	NC_021164.1	Ca_kabuli_chr05	23488117	AA	CC	1946848559
SNP_P4_72908_23488250	NC_021164.1	Ca_kabuli_chr05	23488250	CC	GG	1946848561
SNP_P4_72909_23488679	NC_021164.1	Ca_kabuli_chr05	23488679	GG	AA	1946848563
SNP_P4_72910_23488705	NC_021164.1	Ca_kabuli_chr05	23488705	AA	GG	1946848565
SNP_P4_72911_23533742	NC_021164.1	Ca_kabuli_chr05	23533742	CC	TT	1946848567
SNP_P4_72912_23544732	NC_021164.1	Ca_kabuli_chr05	23544732	CC	TT	1946848569
SNP_P4_72913_23547645	NC_021164.1	Ca_kabuli_chr05	23547645	AA	GG	1946848571
SNP_P4_72914_23547666	NC_021164.1	Ca_kabuli_chr05	23547666	CC	AA	1946848573

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_72917_23557651	NC_021164.1	Ca_kabuli_chr05	23557651	AA	GG	1946848577
SNP_P4_72918_23557661	NC_021164.1	Ca_kabuli_chr05	23557661	CC	AA	1946848579
SNP_P4_72919_23557662	NC_021164.1	Ca_kabuli_chr05	23557662	GG	TT	1946848581
SNP_P4_72920_23557665	NC_021164.1	Ca_kabuli_chr05	23557665	GG	CC	1946848583
SNP_P4_72921_23557666	NC_021164.1	Ca_kabuli_chr05	23557666	AA	GG	1946848585
SNP_P4_72922_23557703	NC_021164.1	Ca_kabuli_chr05	23557703	TT	CC	1946848587
SNP_P4_72923_23557735	NC_021164.1	Ca_kabuli_chr05	23557735	TT	AA	1946848589
SNP_P4_72924_23557754	NC_021164.1	Ca_kabuli_chr05	23557754	TT	CC	1946848591
SNP_P4_72925_23557762	NC_021164.1	Ca_kabuli_chr05	23557762	TT	AA	1946848593
SNP_P4_72926_23558112	NC_021164.1	Ca_kabuli_chr05	23558112	TT	CC	1946848595
SNP_P4_72927_23559200	NC_021164.1	Ca_kabuli_chr05	23559200	TT	CC	1946848597
SNP_P4_72928_23559208	NC_021164.1	Ca_kabuli_chr05	23559208	TT	AA	1946848599
SNP_P4_72929_23559219	NC_021164.1	Ca_kabuli_chr05	23559219	TT	CC	1946848601
SNP_P4_72930_23559226	NC_021164.1	Ca_kabuli_chr05	23559226	TT	CC	1946848603
SNP_P4_72931_23559232	NC_021164.1	Ca_kabuli_chr05	23559232	CC	TT	1946848605
SNP_P4_72932_23559237	NC_021164.1	Ca_kabuli_chr05	23559237	TT	AA	1946848607
SNP_P4_72933_23559271	NC_021164.1	Ca_kabuli_chr05	23559271	CC	GG	1946848609
SNP_P4_72934_23559280	NC_021164.1	Ca_kabuli_chr05	23559280	TT	AA	1946848611
SNP_P4_72935_23559292	NC_021164.1	Ca_kabuli_chr05	23559292	TT	CC	1946848613
SNP_P4_72936_23559294	NC_021164.1	Ca_kabuli_chr05	23559294	AA	CC	1946848615
SNP_P4_72937_23559296	NC_021164.1	Ca_kabuli_chr05	23559296	GG	CC	1946848617
SNP_P4_72938_23559302	NC_021164.1	Ca_kabuli_chr05	23559302	GG	AA	1946848619
SNP_P4_72939_23559310	NC_021164.1	Ca_kabuli_chr05	23559310	AA	CC	1946848621
SNP_P4_72940_23559311	NC_021164.1	Ca_kabuli_chr05	23559311	TT	CC	1946848623
SNP_P4_72941_23566676	NC_021164.1	Ca_kabuli_chr05	23566676	GG	CC	1946848625
SNP_P4_72942_23566740	NC_021164.1	Ca_kabuli_chr05	23566740	TT	GG	1946848627
SNP_P4_72943_23567091	NC_021164.1	Ca_kabuli_chr05	23567091	AA	CC	1946848629
SNP_P4_72944_23567114	NC_021164.1	Ca_kabuli_chr05	23567114	TT	GG	1946848631
SNP_P4_72945_23567119	NC_021164.1	Ca_kabuli_chr05	23567119	GG	TT	1946848633
SNP_P4_72946_23567130	NC_021164.1	Ca_kabuli_chr05	23567130	AA	TT	1946848635
SNP_P4_72948_23568336	NC_021164.1	Ca_kabuli_chr05	23568336	CC	TT	1946848637
SNP_P4_72949_23573083	NC_021164.1	Ca_kabuli_chr05	23573083	GG	AA	1946848639
SNP_P4_72950_23585048	NC_021164.1	Ca_kabuli_chr05	23585048	CC	AA	1946848641
SNP_P4_72951_23585072	NC_021164.1	Ca_kabuli_chr05	23585072	CC	TT	1946848643
SNP_P4_72952_23585118	NC_021164.1	Ca_kabuli_chr05	23585118	TT	CC	1946848645
SNP_P4_72953_23585130	NC_021164.1	Ca_kabuli_chr05	23585130	GG	TT	1946848647
SNP_P4_72954_23585491	NC_021164.1	Ca_kabuli_chr05	23585491	TT	CC	1946848649
SNP_P4_72955_23588479	NC_021164.1	Ca_kabuli_chr05	23588479	TT	CC	1946848651
SNP_P4_72956_23588820	NC_021164.1	Ca_kabuli_chr05	23588820	TT	CC	1946848653
SNP_P4_72957_23588926	NC_021164.1	Ca_kabuli_chr05	23588926	GG	TT	1946848655
SNP_P4_72958_23588937	NC_021164.1	Ca_kabuli_chr05	23588937	GG	CC	1946848657

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_72960_23595400	NC_021164.1	Ca_kabuli_chr05	23595400	GG	TT	1946848661
SNP_P4_72961_23596547	NC_021164.1	Ca_kabuli_chr05	23596547	GG	AA	1946848663
SNP_P4_72962_23596643	NC_021164.1	Ca_kabuli_chr05	23596643	AA	GG	1946848665
SNP_P4_72963_23596690	NC_021164.1	Ca_kabuli_chr05	23596690	TT	CC	1946848667
SNP_P4_72964_23596842	NC_021164.1	Ca_kabuli_chr05	23596842	AA	GG	1946848669
SNP_P4_72965_23606244	NC_021164.1	Ca_kabuli_chr05	23606244	GG	AA	1946848671
SNP_P4_72966_23606271	NC_021164.1	Ca_kabuli_chr05	23606271	TT	AA	1946848673
SNP_P4_72967_23606472	NC_021164.1	Ca_kabuli_chr05	23606472	GG	AA	1946848675
SNP_P4_72968_23606509	NC_021164.1	Ca_kabuli_chr05	23606509	AA	CC	1946848677
SNP_P4_72969_23606525	NC_021164.1	Ca_kabuli_chr05	23606525	CC	AA	1946848679
SNP_P4_72970_23606527	NC_021164.1	Ca_kabuli_chr05	23606527	TT	CC	1946848681
SNP_P4_72971_23607238	NC_021164.1	Ca_kabuli_chr05	23607238	AA	CC	1946848683
SNP_P4_72972_23619493	NC_021164.1	Ca_kabuli_chr05	23619493	TT	AA	1946848685
SNP_P4_72973_23640818	NC_021164.1	Ca_kabuli_chr05	23640818	TT	CC	1946848687
SNP_P4_72974_23640828	NC_021164.1	Ca_kabuli_chr05	23640828	TT	AA	1946848689
SNP_P4_72975_23640859	NC_021164.1	Ca_kabuli_chr05	23640859	GG	TT	1946848691
SNP_P4_72977_23644704	NC_021164.1	Ca_kabuli_chr05	23644704	TT	CC	1946848693
SNP_P4_72978_23644770	NC_021164.1	Ca_kabuli_chr05	23644770	TT	CC	1946848695
SNP_P4_72979_23645018	NC_021164.1	Ca_kabuli_chr05	23645018	GG	AA	1946848697
SNP_P4_72980_23645021	NC_021164.1	Ca_kabuli_chr05	23645021	GG	TT	1946848699
SNP_P4_72981_23645121	NC_021164.1	Ca_kabuli_chr05	23645121	CC	TT	1946848701
SNP_P4_72982_23645153	NC_021164.1	Ca_kabuli_chr05	23645153	GG	AA	1946848703
SNP_P4_72983_23645186	NC_021164.1	Ca_kabuli_chr05	23645186	AA	GG	1946848705
SNP_P4_72984_23645206	NC_021164.1	Ca_kabuli_chr05	23645206	AA	TT	1946848707
SNP_P4_72985_23645213	NC_021164.1	Ca_kabuli_chr05	23645213	AA	GG	1946848709
SNP_P4_72986_23645228	NC_021164.1	Ca_kabuli_chr05	23645228	AA	GG	1946848711
SNP_P4_72987_23645295	NC_021164.1	Ca_kabuli_chr05	23645295	GG	AA	1946848713
SNP_P4_72988_23645347	NC_021164.1	Ca_kabuli_chr05	23645347	AA	GG	1946848716
SNP_P4_72989_23645961	NC_021164.1	Ca_kabuli_chr05	23645961	CC	GG	1946848718
SNP_P4_72990_23646303	NC_021164.1	Ca_kabuli_chr05	23646303	AA	GG	1946848720
SNP_P4_72991_23647028	NC_021164.1	Ca_kabuli_chr05	23647028	AA	CC	1946848722
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SNP_P4_72994_23663168	NC_021164.1	Ca_kabuli_chr05	23663168	AA	GG	1946848726
SNP_P4_72995_23663195	NC_021164.1	Ca_kabuli_chr05	23663195	CC	AA	1946848728
SNP_P4_72996_23664201	NC_021164.1	Ca_kabuli_chr05	23664201	AA	GG	1946848730
SNP_P4_72997_23664245	NC_021164.1	Ca_kabuli_chr05	23664245	TT	CC	1946848732
SNP_P4_72998_23664292	NC_021164.1	Ca_kabuli_chr05	23664292	AA	CC	1946848734
SNP_P4_72999_23664301	NC_021164.1	Ca_kabuli_chr05	23664301	AA	GG	1946848736
SNP_P4_73000_23664373	NC_021164.1	Ca_kabuli_chr05	23664373	AA	CC	1946848738
SNP_P4_73001_23664483	NC_021164.1	Ca_kabuli_chr05	23664483	AA	GG	1946848740
SNP_P4_73002_23664514	NC_021164.1	Ca_kabuli_chr05	23664514	AA	GG	1946848742

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_73005_23668830	NC_021164.1	Ca_kabuli_chr05	23668830	GG	TT	1946848746
SNP_P4_73006_23668919	NC_021164.1	Ca_kabuli_chr05	23668919	GG	TT	1946848748
SNP_P4_73007_23668943	NC_021164.1	Ca_kabuli_chr05	23668943	GG	AA	1946848750
SNP_P4_73008_23669358	NC_021164.1	Ca_kabuli_chr05	23669358	TT	CC	1946848752
SNP_P4_73009_23669370	NC_021164.1	Ca_kabuli_chr05	23669370	TT	CC	1946848754
SNP_P4_73010_23670085	NC_021164.1	Ca_kabuli_chr05	23670085	TT	CC	1946848756
SNP_P4_73011_23670111	NC_021164.1	Ca_kabuli_chr05	23670111	AA	GG	1946848758
SNP_P4_73012_23670171	NC_021164.1	Ca_kabuli_chr05	23670171	AA	CC	1946848760
SNP_P4_73013_23670548	NC_021164.1	Ca_kabuli_chr05	23670548	AA	GG	1946848762
SNP_P4_73014_23670567	NC_021164.1	Ca_kabuli_chr05	23670567	AA	GG	1946848764
SNP_P4_73015_23670617	NC_021164.1	Ca_kabuli_chr05	23670617	CC	TT	1946848766
SNP_P4_73016_23670762	NC_021164.1	Ca_kabuli_chr05	23670762	AA	GG	1946848768
SNP_P4_73017_23670780	NC_021164.1	Ca_kabuli_chr05	23670780	TT	CC	1946848770
SNP_P4_73018_23670875	NC_021164.1	Ca_kabuli_chr05	23670875	TT	CC	1946848772
SNP_P4_73019_23670919	NC_021164.1	Ca_kabuli_chr05	23670919	TT	AA	1946848774
SNP_P4_73020_23670932	NC_021164.1	Ca_kabuli_chr05	23670932	AA	CC	1946848776
SNP_P4_73021_23671224	NC_021164.1	Ca_kabuli_chr05	23671224	TT	CC	1946848778
SNP_P4_73022_23671250	NC_021164.1	Ca_kabuli_chr05	23671250	AA	GG	1946848780
SNP_P4_73023_23671278	NC_021164.1	Ca_kabuli_chr05	23671278	TT	CC	1946848782
SNP_P4_73024_23671337	NC_021164.1	Ca_kabuli_chr05	23671337	TT	CC	1946848783
SNP_P4_73025_23671356	NC_021164.1	Ca_kabuli_chr05	23671356	CC	AA	1946848784
SNP_P4_73026_23671386	NC_021164.1	Ca_kabuli_chr05	23671386	TT	CC	1946848785
SNP_P4_73028_23673810	NC_021164.1	Ca_kabuli_chr05	23673810	AA	GG	1946848786
SNP_P4_73029_23673860	NC_021164.1	Ca_kabuli_chr05	23673860	TT	CC	1946848787
SNP_P4_73030_23674057	NC_021164.1	Ca_kabuli_chr05	23674057	AA	GG	1946848788
SNP_P4_73031_23674065	NC_021164.1	Ca_kabuli_chr05	23674065	AA	CC	1946848790
SNP_P4_73032_23674462	NC_021164.1	Ca_kabuli_chr05	23674462	TT	CC	1946848792
SNP_P4_73033_23674485	NC_021164.1	Ca_kabuli_chr05	23674485	AA	GG	1946848794
SNP_P4_73034_23674525	NC_021164.1	Ca_kabuli_chr05	23674525	TT	CC	1946848796
SNP_P4_73035_23674586	NC_021164.1	Ca_kabuli_chr05	23674586	TT	CC	1946848798
SNP_P4_73036_23674595	NC_021164.1	Ca_kabuli_chr05	23674595	TT	CC	1946848800
SNP_P4_73037_23674758	NC_021164.1	Ca_kabuli_chr05	23674758	TT	CC	1946848802
SNP_P4_73038_23674768	NC_021164.1	Ca_kabuli_chr05	23674768	CC	TT	1946848804
SNP_P4_73039_23674846	NC_021164.1	Ca_kabuli_chr05	23674846	TT	CC	1946848806
SNP_P4_73040_23674893	NC_021164.1	Ca_kabuli_chr05	23674893	AA	GG	1946848808
SNP_P4_73042_23689684	NC_021164.1	Ca_kabuli_chr05	23689684	AA	GG	1946848810
SNP_P4_73043_23752386	NC_021164.1	Ca_kabuli_chr05	23752386	CC	TT	1946848812
SNP_P4_73045_23796696	NC_021164.1	Ca_kabuli_chr05	23796696	AA	CC	1946848815
SNP_P4_73046_23796724	NC_021164.1	Ca_kabuli_chr05	23796724	TT	AA	1946848817
SNP_P4_73047_23796726	NC_021164.1	Ca_kabuli_chr05	23796726	AA	TT	1946848819
SNP_P4_73048_23796740	NC_021164.1	Ca_kabuli_chr05	23796740	GG	TT	1946848821

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_73053_23893910	NC_021164.1	Ca_kabuli_chr05	23893910	TT	AA	1946848827
SNP_P4_73054_23898899	NC_021164.1	Ca_kabuli_chr05	23898899	AA	GG	1946848829
SNP_P4_73056_23945743	NC_021164.1	Ca_kabuli_chr05	23945743	TT	AA	1946848831
SNP_P4_73057_23945746	NC_021164.1	Ca_kabuli_chr05	23945746	AA	CC	1946848833
SNP_P4_73058_23948553	NC_021164.1	Ca_kabuli_chr05	23948553	AA	TT	1946848835
SNP_P4_73060_23978688	NC_021164.1	Ca_kabuli_chr05	23978688	GG	AA	1946848837
SNP_P4_73062_24007395	NC_021164.1	Ca_kabuli_chr05	24007395	CC	TT	1946848839
SNP_P4_73063_24007396	NC_021164.1	Ca_kabuli_chr05	24007396	AA	CC	1946848841
SNP_P4_73064_24007434	NC_021164.1	Ca_kabuli_chr05	24007434	GG	AA	1946848843
SNP_P4_73065_24008088	NC_021164.1	Ca_kabuli_chr05	24008088	CC	AA	1946848845
SNP_P4_73067_24097291	NC_021164.1	Ca_kabuli_chr05	24097291	TT	CC	1946848847
SNP_P4_73069_24108537	NC_021164.1	Ca_kabuli_chr05	24108537	GG	TT	1946848849
SNP_P4_73070_24108541	NC_021164.1	Ca_kabuli_chr05	24108541	GG	AA	1946848851
SNP_P4_73071_24108556	NC_021164.1	Ca_kabuli_chr05	24108556	GG	CC	1946848853
SNP_P4_73072_24108557	NC_021164.1	Ca_kabuli_chr05	24108557	TT	CC	1946848855
SNP_P4_73073_24124147	NC_021164.1	Ca_kabuli_chr05	24124147	TT	CC	1946848857
SNP_P4_73074_24124148	NC_021164.1	Ca_kabuli_chr05	24124148	CC	AA	1946848859
SNP_P4_73075_24124149	NC_021164.1	Ca_kabuli_chr05	24124149	GG	AA	1946848861
SNP_P4_73076_24129659	NC_021164.1	Ca_kabuli_chr05	24129659	GG	TT	1946848863
SNP_P4_73077_24129701	NC_021164.1	Ca_kabuli_chr05	24129701	GG	AA	1946848865
SNP_P4_73078_24143587	NC_021164.1	Ca_kabuli_chr05	24143587	AA	TT	1946848867
SNP_P4_73079_24147920	NC_021164.1	Ca_kabuli_chr05	24147920	GG	TT	1946848869
SNP_P4_73080_24147951	NC_021164.1	Ca_kabuli_chr05	24147951	TT	GG	1946848871
SNP_P4_73082_24157268	NC_021164.1	Ca_kabuli_chr05	24157268	CC	TT	1946848873
SNP_P4_73083_24157319	NC_021164.1	Ca_kabuli_chr05	24157319	CC	TT	1946848875
SNP_P4_73084_24157347	NC_021164.1	Ca_kabuli_chr05	24157347	AA	TT	1946848877
SNP_P4_73085_24178939	NC_021164.1	Ca_kabuli_chr05	24178939	AA	TT	1946848879
SNP_P4_73086_24179002	NC_021164.1	Ca_kabuli_chr05	24179002	AA	CC	1946848881
SNP_P4_73087_24220226	NC_021164.1	Ca_kabuli_chr05	24220226	GG	CC	1946848883
SNP_P4_73088_24223696	NC_021164.1	Ca_kabuli_chr05	24223696	TT	CC	1946848885
SNP_P4_73089_24223710	NC_021164.1	Ca_kabuli_chr05	24223710	TT	CC	1946848887
SNP_P4_73090_24223798	NC_021164.1	Ca_kabuli_chr05	24223798	TT	CC	1946848889
SNP_P4_73091_24223887	NC_021164.1	Ca_kabuli_chr05	24223887	TT	GG	1946848891
SNP_P4_73092_24224139	NC_021164.1	Ca_kabuli_chr05	24224139	GG	TT	1946848893
SNP_P4_73093_24224156	NC_021164.1	Ca_kabuli_chr05	24224156	TT	CC	1946848895
SNP_P4_73094_24224219	NC_021164.1	Ca_kabuli_chr05	24224219	GG	TT	1946848897
SNP_P4_73095_24224244	NC_021164.1	Ca_kabuli_chr05	24224244	TT	GG	1946848899
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SNP_P4_73097_24224259	NC_021164.1	Ca_kabuli_chr05	24224259	CC	TT	1946848903
SNP_P4_73098_24226716	NC_021164.1	Ca_kabuli_chr05	24226716	TT	CC	1946848905

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_73100_24251813	NC_021164.1	Ca_kabuli_chr05	24251813	CC	TT	1946848909
SNP_P4_73101_24261236	NC_021164.1	Ca_kabuli_chr05	24261236	TT	GG	1946848911
SNP_P4_73102_24261248	NC_021164.1	Ca_kabuli_chr05	24261248	AA	CC	1946848913
SNP_P4_73103_24261364	NC_021164.1	Ca_kabuli_chr05	24261364	GG	AA	1946848915
SNP_P4_73105_24270348	NC_021164.1	Ca_kabuli_chr05	24270348	TT	GG	1946848918
SNP_P4_73106_24270698	NC_021164.1	Ca_kabuli_chr05	24270698	AA	GG	1946848920
SNP_P4_73107_24270727	NC_021164.1	Ca_kabuli_chr05	24270727	AA	GG	1946848922
SNP_P4_73108_24270756	NC_021164.1	Ca_kabuli_chr05	24270756	CC	TT	1946848924
SNP_P4_73109_24270798	NC_021164.1	Ca_kabuli_chr05	24270798	TT	GG	1946848926
SNP_P4_73110_24270825	NC_021164.1	Ca_kabuli_chr05	24270825	GG	AA	1946848928
SNP_P4_73111_24277139	NC_021164.1	Ca_kabuli_chr05	24277139	AA	GG	1946848930
SNP_P4_73112_24277168	NC_021164.1	Ca_kabuli_chr05	24277168	AA	GG	1946848932
SNP_P4_73113_24277172	NC_021164.1	Ca_kabuli_chr05	24277172	AA	GG	1946848934
SNP_P4_73114_24277713	NC_021164.1	Ca_kabuli_chr05	24277713	TT	GG	1946848936
SNP_P4_73115_24277727	NC_021164.1	Ca_kabuli_chr05	24277727	AA	TT	1946848938
SNP_P4_73116_24297764	NC_021164.1	Ca_kabuli_chr05	24297764	AA	TT	1946848940
SNP_P4_73117_24297807	NC_021164.1	Ca_kabuli_chr05	24297807	CC	AA	1946848942
SNP_P4_73119_24300515	NC_021164.1	Ca_kabuli_chr05	24300515	AA	GG	1946848945
SNP_P4_73120_24300516	NC_021164.1	Ca_kabuli_chr05	24300516	AA	GG	1946848947
SNP_P4_73121_24300954	NC_021164.1	Ca_kabuli_chr05	24300954	AA	GG	1946848949
SNP_P4_73122_24300995	NC_021164.1	Ca_kabuli_chr05	24300995	GG	CC	1946848951
SNP_P4_73123_24302287	NC_021164.1	Ca_kabuli_chr05	24302287	AA	TT	1946848953
SNP_P4_73124_24302290	NC_021164.1	Ca_kabuli_chr05	24302290	GG	AA	1946848955
SNP_P4_73125_24302324	NC_021164.1	Ca_kabuli_chr05	24302324	TT	CC	1946848957
SNP_P4_73126_24302326	NC_021164.1	Ca_kabuli_chr05	24302326	AA	GG	1946848959
SNP_P4_73127_24302327	NC_021164.1	Ca_kabuli_chr05	24302327	AA	CC	1946848961
SNP_P4_73128_24302333	NC_021164.1	Ca_kabuli_chr05	24302333	GG	AA	1946848963
SNP_P4_73129_24302345	NC_021164.1	Ca_kabuli_chr05	24302345	CC	TT	1946848965
SNP_P4_73130_24302374	NC_021164.1	Ca_kabuli_chr05	24302374	AA	TT	1946848967
SNP_P4_73131_24326797	NC_021164.1	Ca_kabuli_chr05	24326797	GG	AA	1946848969
SNP_P4_73132_24327693	NC_021164.1	Ca_kabuli_chr05	24327693	AA	CC	1946848971
SNP_P4_73133_24327708	NC_021164.1	Ca_kabuli_chr05	24327708	AA	GG	1946848974
SNP_P4_73134_24327821	NC_021164.1	Ca_kabuli_chr05	24327821	TT	AA	1946848976
SNP_P4_73135_24327880	NC_021164.1	Ca_kabuli_chr05	24327880	AA	GG	1946848978
SNP_P4_73136_24327903	NC_021164.1	Ca_kabuli_chr05	24327903	CC	TT	1946848980
SNP_P4_73137_24328122	NC_021164.1	Ca_kabuli_chr05	24328122	TT	CC	1946848982
SNP_P4_73138_24392151	NC_021164.1	Ca_kabuli_chr05	24392151	TT	AA	1946848984
SNP_P4_73139_24440144	NC_021164.1	Ca_kabuli_chr05	24440144	AA	GG	1946848986
SNP_P4_73140_24447137	NC_021164.1	Ca_kabuli_chr05	24447137	TT	AA	1946848988
SNP_P4_73141_24452364	NC_021164.1	Ca_kabuli_chr05	24452364	CC	TT	1946848990
SNP_P4_73142_24488052	NC_021164.1	Ca_kabuli_chr05	24488052	TT	CC	1946848992

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_73144_24505821	NC_021164.1	Ca_kabuli_chr05	24505821	CC	TT	1946848997
SNP_P4_73145_24505836	NC_021164.1	Ca_kabuli_chr05	24505836	AA	GG	1946848999
SNP_P4_73146_24505912	NC_021164.1	Ca_kabuli_chr05	24505912	AA	GG	1946849001
SNP_P4_73148_24532449	NC_021164.1	Ca_kabuli_chr05	24532449	CC	TT	1946849003
SNP_P4_73149_24532530	NC_021164.1	Ca_kabuli_chr05	24532530	CC	TT	1946849005
SNP_P4_73150_24532540	NC_021164.1	Ca_kabuli_chr05	24532540	AA	GG	1946849007
SNP_P4_73151_24532548	NC_021164.1	Ca_kabuli_chr05	24532548	TT	CC	1946849009
SNP_P4_73152_24532604	NC_021164.1	Ca_kabuli_chr05	24532604	GG	AA	1946849011
SNP_P4_73153_24532819	NC_021164.1	Ca_kabuli_chr05	24532819	AA	TT	1946849013
SNP_P4_73155_24532855	NC_021164.1	Ca_kabuli_chr05	24532855	TT	CC	1946849015
SNP_P4_73156_24532883	NC_021164.1	Ca_kabuli_chr05	24532883	GG	AA	1946849017
SNP_P4_73157_24532904	NC_021164.1	Ca_kabuli_chr05	24532904	CC	TT	1946849019
SNP_P4_73158_24533815	NC_021164.1	Ca_kabuli_chr05	24533815	GG	AA	1946849021
SNP_P4_73159_24533968	NC_021164.1	Ca_kabuli_chr05	24533968	AA	CC	1946849023
SNP_P4_73160_24534632	NC_021164.1	Ca_kabuli_chr05	24534632	TT	CC	1946849025
SNP_P4_73161_24571965	NC_021164.1	Ca_kabuli_chr05	24571965	TT	GG	1946849027
SNP_P4_73162_24576561	NC_021164.1	Ca_kabuli_chr05	24576561	AA	GG	1946849029
SNP_P4_73163_24576593	NC_021164.1	Ca_kabuli_chr05	24576593	TT	CC	1946849031
SNP_P4_73164_24581358	NC_021164.1	Ca_kabuli_chr05	24581358	CC	TT	1946849033
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SNP_P4_73166_24611746	NC_021164.1	Ca_kabuli_chr05	24611746	TT	GG	1946849037
SNP_P4_73168_24639135	NC_021164.1	Ca_kabuli_chr05	24639135	TT	GG	1946849039
SNP_P4_73169_24639254	NC_021164.1	Ca_kabuli_chr05	24639254	TT	CC	1946849041
SNP_P4_73170_24639522	NC_021164.1	Ca_kabuli_chr05	24639522	GG	AA	1946849043
SNP_P4_73171_24648713	NC_021164.1	Ca_kabuli_chr05	24648713	TT	CC	1946849045
SNP_P4_73172_24697575	NC_021164.1	Ca_kabuli_chr05	24697575	TT	AA	1946849047
SNP_P4_73173_24697576	NC_021164.1	Ca_kabuli_chr05	24697576	AA	TT	1946849049
SNP_P4_73175_24747179	NC_021164.1	Ca_kabuli_chr05	24747179	AA	GG	1946849051
SNP_P4_73176_24747587	NC_021164.1	Ca_kabuli_chr05	24747587	CC	AA	1946849053
SNP_P4_73178_24752512	NC_021164.1	Ca_kabuli_chr05	24752512	CC	TT	1946849055
SNP_P4_73179_24752529	NC_021164.1	Ca_kabuli_chr05	24752529	TT	CC	1946849057
SNP_P4_73180_24755888	NC_021164.1	Ca_kabuli_chr05	24755888	TT	AA	1946849059
SNP_P4_73181_24755893	NC_021164.1	Ca_kabuli_chr05	24755893	GG	TT	1946849061
SNP_P4_73182_24755919	NC_021164.1	Ca_kabuli_chr05	24755919	CC	TT	1946849063
SNP_P4_73183_24755921	NC_021164.1	Ca_kabuli_chr05	24755921	AA	GG	1946849065
SNP_P4_73184_24755948	NC_021164.1	Ca_kabuli_chr05	24755948	CC	TT	1946849067
SNP_P4_73185_24756085	NC_021164.1	Ca_kabuli_chr05	24756085	GG	CC	1946849069
SNP_P4_73186_24756401	NC_021164.1	Ca_kabuli_chr05	24756401	AA	TT	1946849071
SNP_P4_73187_24756459	NC_021164.1	Ca_kabuli_chr05	24756459	TT	CC	1946849073
SNP_P4_73188_24756466	NC_021164.1	Ca_kabuli_chr05	24756466	CC	TT	1946849075
SNP_P4_73189_24764359	NC_021164.1	Ca_kabuli_chr05	24764359	CC	GG	1946849077

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_73191_24764741	NC_021164.1	Ca_kabuli_chr05	24764741	GG	AA	1946849081
SNP_P4_73192_24764742	NC_021164.1	Ca_kabuli_chr05	24764742	TT	CC	1946849083
SNP_P4_73193_24764942	NC_021164.1	Ca_kabuli_chr05	24764942	TT	CC	1946849085
SNP_P4_73194_24764952	NC_021164.1	Ca_kabuli_chr05	24764952	AA	GG	1946849087
SNP_P4_73195_24764962	NC_021164.1	Ca_kabuli_chr05	24764962	CC	TT	1946849089
SNP_P4_73196_24764979	NC_021164.1	Ca_kabuli_chr05	24764979	CC	TT	1946849091
SNP_P4_73197_24764999	NC_021164.1	Ca_kabuli_chr05	24764999	GG	AA	1946849093
SNP_P4_73199_24822328	NC_021164.1	Ca_kabuli_chr05	24822328	AA	TT	1946849095
SNP_P4_73201_24862023	NC_021164.1	Ca_kabuli_chr05	24862023	TT	AA	1946849097
SNP_P4_73202_24862085	NC_021164.1	Ca_kabuli_chr05	24862085	TT	CC	1946849100
SNP_P4_73203_24862734	NC_021164.1	Ca_kabuli_chr05	24862734	TT	AA	1946849102
SNP_P4_73204_24863994	NC_021164.1	Ca_kabuli_chr05	24863994	AA	CC	1946849104
SNP_P4_73205_24877812	NC_021164.1	Ca_kabuli_chr05	24877812	GG	TT	1946849106
SNP_P4_73207_24910390	NC_021164.1	Ca_kabuli_chr05	24910390	AA	GG	1946849108
SNP_P4_73208_24910412	NC_021164.1	Ca_kabuli_chr05	24910412	AA	GG	1946849110
SNP_P4_73209_24915371	NC_021164.1	Ca_kabuli_chr05	24915371	GG	AA	1946849112
SNP_P4_73210_24922969	NC_021164.1	Ca_kabuli_chr05	24922969	TT	GG	1946849114
SNP_P4_73211_24922987	NC_021164.1	Ca_kabuli_chr05	24922987	CC	AA	1946849116
SNP_P4_73212_24923629	NC_021164.1	Ca_kabuli_chr05	24923629	TT	CC	1946849118
SNP_P4_73213_24923632	NC_021164.1	Ca_kabuli_chr05	24923632	TT	AA	1946849120
SNP_P4_73214_24928850	NC_021164.1	Ca_kabuli_chr05	24928850	GG	AA	1946849122
SNP_P4_73216_24943592	NC_021164.1	Ca_kabuli_chr05	24943592	GG	AA	1946849124
SNP_P4_73217_24960390	NC_021164.1	Ca_kabuli_chr05	24960390	AA	GG	1946849126
SNP_P4_73219_24982143	NC_021164.1	Ca_kabuli_chr05	24982143	GG	AA	1946849128
SNP_P4_73221_24994903	NC_021164.1	Ca_kabuli_chr05	24994903	AA	GG	1946849130
SNP_P4_73222_24994915	NC_021164.1	Ca_kabuli_chr05	24994915	AA	GG	1946849133
SNP_P4_73223_24994939	NC_021164.1	Ca_kabuli_chr05	24994939	AA	GG	1946849135
SNP_P4_73224_24994994	NC_021164.1	Ca_kabuli_chr05	24994994	AA	GG	1946849137
SNP_P4_73225_25027123	NC_021164.1	Ca_kabuli_chr05	25027123	AA	TT	1946849139
SNP_P4_73227_25040355	NC_021164.1	Ca_kabuli_chr05	25040355	TT	CC	1946849141
SNP_P4_73228_25041909	NC_021164.1	Ca_kabuli_chr05	25041909	GG	AA	1946849143
SNP_P4_73229_25106662	NC_021164.1	Ca_kabuli_chr05	25106662	AA	GG	1946849145
SNP_P4_73230_25107702	NC_021164.1	Ca_kabuli_chr05	25107702	CC	TT	1946849147
SNP_P4_73231_25120661	NC_021164.1	Ca_kabuli_chr05	25120661	GG	AA	1946849149
SNP_P4_73233_25140422	NC_021164.1	Ca_kabuli_chr05	25140422	TT	CC	1946849151
SNP_P4_73234_25159675	NC_021164.1	Ca_kabuli_chr05	25159675	TT	CC	1946849153
SNP_P4_73235_25165836	NC_021164.1	Ca_kabuli_chr05	25165836	TT	AA	1946849155
SNP_P4_73236_25186064	NC_021164.1	Ca_kabuli_chr05	25186064	CC	TT	1946849157
SNP_P4_73239_25230823	NC_021164.1	Ca_kabuli_chr05	25230823	TT	AA	1946849159
SNP_P4_73240_25230834	NC_021164.1	Ca_kabuli_chr05	25230834	GG	AA	1946849161
SNP_P4_73241_25230835	NC_021164.1	Ca_kabuli_chr05	25230835	AA	CC	1946849163

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_73243_25230897	NC_021164.1	Ca_kabuli_chr05	25230897	TT	AA	1946849167
SNP_P4_73244_25232440	NC_021164.1	Ca_kabuli_chr05	25232440	TT	CC	1946849169
SNP_P4_73245_25232455	NC_021164.1	Ca_kabuli_chr05	25232455	GG	CC	1946849171
SNP_P4_73246_25232466	NC_021164.1	Ca_kabuli_chr05	25232466	AA	CC	1946849173
SNP_P4_73248_25232512	NC_021164.1	Ca_kabuli_chr05	25232512	AA	CC	1946849175
SNP_P4_73249_25232520	NC_021164.1	Ca_kabuli_chr05	25232520	TT	CC	1946849177
SNP_P4_73250_25232530	NC_021164.1	Ca_kabuli_chr05	25232530	GG	AA	1946849179
SNP_P4_73252_25232711	NC_021164.1	Ca_kabuli_chr05	25232711	AA	TT	1946849181
SNP_P4_73253_25232850	NC_021164.1	Ca_kabuli_chr05	25232850	GG	AA	1946849183
SNP_P4_73254_25235983	NC_021164.1	Ca_kabuli_chr05	25235983	AA	CC	1946849185
SNP_P4_73255_25243049	NC_021164.1	Ca_kabuli_chr05	25243049	AA	TT	1946849187
SNP_P4_73256_25243441	NC_021164.1	Ca_kabuli_chr05	25243441	GG	AA	1946849189
SNP_P4_73257_25245845	NC_021164.1	Ca_kabuli_chr05	25245845	TT	CC	1946849191
SNP_P4_73258_25245858	NC_021164.1	Ca_kabuli_chr05	25245858	AA	GG	1946849193
SNP_P4_73259_25245886	NC_021164.1	Ca_kabuli_chr05	25245886	AA	CC	1946849195
SNP_P4_73260_25246049	NC_021164.1	Ca_kabuli_chr05	25246049	AA	GG	1946849197
SNP_P4_73261_25246214	NC_021164.1	Ca_kabuli_chr05	25246214	TT	CC	1946849199
SNP_P4_73262_25246239	NC_021164.1	Ca_kabuli_chr05	25246239	AA	CC	1946849201
SNP_P4_73263_25246248	NC_021164.1	Ca_kabuli_chr05	25246248	AA	CC	1946849203
SNP_P4_73264_25246374	NC_021164.1	Ca_kabuli_chr05	25246374	GG	AA	1946849205
SNP_P4_73265_25246655	NC_021164.1	Ca_kabuli_chr05	25246655	AA	GG	1946849207
SNP_P4_73266_25246761	NC_021164.1	Ca_kabuli_chr05	25246761	GG	AA	1946849209
SNP_P4_73267_25246762	NC_021164.1	Ca_kabuli_chr05	25246762	TT	GG	1946849211
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SNP_P4_73269_25246791	NC_021164.1	Ca_kabuli_chr05	25246791	AA	TT	1946849215
SNP_P4_73270_25248719	NC_021164.1	Ca_kabuli_chr05	25248719	CC	TT	1946849217
SNP_P4_73271_25248747	NC_021164.1	Ca_kabuli_chr05	25248747	CC	AA	1946849219
SNP_P4_73272_25264989	NC_021164.1	Ca_kabuli_chr05	25264989	CC	TT	1946849221
SNP_P4_73273_25275121	NC_021164.1	Ca_kabuli_chr05	25275121	TT	AA	1946849223
SNP_P4_73274_25287534	NC_021164.1	Ca_kabuli_chr05	25287534	GG	TT	1946849225
SNP_P4_73275_25288153	NC_021164.1	Ca_kabuli_chr05	25288153	GG	AA	1946849227
SNP_P4_73276_25298830	NC_021164.1	Ca_kabuli_chr05	25298830	GG	AA	1946849229
SNP_P4_73277_25298833	NC_021164.1	Ca_kabuli_chr05	25298833	AA	TT	1946849231
SNP_P4_73278_25298888	NC_021164.1	Ca_kabuli_chr05	25298888	TT	AA	1946849233
SNP_P4_73279_25298890	NC_021164.1	Ca_kabuli_chr05	25298890	CC	TT	1946849235
SNP_P4_73280_25298900	NC_021164.1	Ca_kabuli_chr05	25298900	TT	AA	1946849237
SNP_P4_73281_25298901	NC_021164.1	Ca_kabuli_chr05	25298901	CC	AA	1946849239
SNP_P4_73282_25299069	NC_021164.1	Ca_kabuli_chr05	25299069	CC	TT	1946849241
SNP_P4_73283_25299074	NC_021164.1	Ca_kabuli_chr05	25299074	AA	GG	1946849243
SNP_P4_73284_25301733	NC_021164.1	Ca_kabuli_chr05	25301733	TT	CC	1946849245
SNP_P4_73285_25304276	NC_021164.1	Ca_kabuli_chr05	25304276	AA	TT	1946849247

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_73287_25304307	NC_021164.1	Ca_kabuli_chr05	25304307	TT	CC	1946849251
SNP_P4_73288_25304311	NC_021164.1	Ca_kabuli_chr05	25304311	GG	TT	1946849253
SNP_P4_73289_25304447	NC_021164.1	Ca_kabuli_chr05	25304447	TT	CC	1946849255
SNP_P4_73290_25317329	NC_021164.1	Ca_kabuli_chr05	25317329	TT	CC	1946849257
SNP_P4_73291_25354605	NC_021164.1	Ca_kabuli_chr05	25354605	CC	AA	1946849259
SNP_P4_73292_25362947	NC_021164.1	Ca_kabuli_chr05	25362947	AA	GG	1946849261
SNP_P4_73293_25362949	NC_021164.1	Ca_kabuli_chr05	25362949	TT	GG	1946849263
SNP_P4_73294_25373699	NC_021164.1	Ca_kabuli_chr05	25373699	CC	TT	1946849265
SNP_P4_73295_25373712	NC_021164.1	Ca_kabuli_chr05	25373712	AA	GG	1946849267
SNP_P4_73297_25391240	NC_021164.1	Ca_kabuli_chr05	25391240	CC	AA	1946849269
SNP_P4_73298_25399115	NC_021164.1	Ca_kabuli_chr05	25399115	TT	GG	1946849271
SNP_P4_73299_25424017	NC_021164.1	Ca_kabuli_chr05	25424017	AA	CC	1946849273
SNP_P4_73300_25424032	NC_021164.1	Ca_kabuli_chr05	25424032	CC	TT	1946849275
SNP_P4_73301_25424056	NC_021164.1	Ca_kabuli_chr05	25424056	TT	CC	1946849277
SNP_P4_73302_25426290	NC_021164.1	Ca_kabuli_chr05	25426290	TT	AA	1946849279
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SNP_P4_73309_25521118	NC_021164.1	Ca_kabuli_chr05	25521118	CC	AA	1946849293
SNP_P4_73310_25522140	NC_021164.1	Ca_kabuli_chr05	25522140	CC	GG	1946849295
SNP_P4_73311_25524459	NC_021164.1	Ca_kabuli_chr05	25524459	AA	CC	1946849297
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SNP_P4_73313_25528157	NC_021164.1	Ca_kabuli_chr05	25528157	TT	CC	1946849301
SNP_P4_73314_25531157	NC_021164.1	Ca_kabuli_chr05	25531157	CC	TT	1946849303
SNP_P4_73316_25546423	NC_021164.1	Ca_kabuli_chr05	25546423	TT	CC	1946849305
SNP_P4_73317_25555630	NC_021164.1	Ca_kabuli_chr05	25555630	CC	TT	1946849307
SNP_P4_73318_25557608	NC_021164.1	Ca_kabuli_chr05	25557608	AA	GG	1946849309
SNP_P4_73319_25558820	NC_021164.1	Ca_kabuli_chr05	25558820	TT	CC	1946849311
SNP_P4_73321_25578113	NC_021164.1	Ca_kabuli_chr05	25578113	AA	CC	1946849313
SNP_P4_73323_25602692	NC_021164.1	Ca_kabuli_chr05	25602692	AA	TT	1946849315
SNP_P4_73324_25614796	NC_021164.1	Ca_kabuli_chr05	25614796	GG	AA	1946849317
SNP_P4_73327_25656626	NC_021164.1	Ca_kabuli_chr05	25656626	AA	CC	1946849319
SNP_P4_73328_25657008	NC_021164.1	Ca_kabuli_chr05	25657008	TT	CC	1946849321
SNP_P4_73329_25657056	NC_021164.1	Ca_kabuli_chr05	25657056	CC	TT	1946849323
SNP_P4_73330_25657073	NC_021164.1	Ca_kabuli_chr05	25657073	CC	TT	1946849325
SNP_P4_73333_25662141	NC_021164.1	Ca_kabuli_chr05	25662141	TT	CC	1946849327
SNP_P4_73334_25690627	NC_021164.1	Ca_kabuli_chr05	25690627	TT	AA	1946849329
SNP_P4_73335_25690880	NC_021164.1	Ca_kabuli_chr05	25690880	AA	GG	1946849331

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_73338_25733650	NC_021164.1	Ca_kabuli_chr05	25733650	AA	GG	1946849338
SNP_P4_73339_25733677	NC_021164.1	Ca_kabuli_chr05	25733677	TT	CC	1946849340
SNP_P4_73340_25733984	NC_021164.1	Ca_kabuli_chr05	25733984	TT	CC	1946849342
SNP_P4_73341_25734035	NC_021164.1	Ca_kabuli_chr05	25734035	TT	CC	1946849344
SNP_P4_73342_25734075	NC_021164.1	Ca_kabuli_chr05	25734075	GG	CC	1946849346
SNP_P4_73343_25734090	NC_021164.1	Ca_kabuli_chr05	25734090	GG	AA	1946849348
SNP_P4_73345_25769500	NC_021164.1	Ca_kabuli_chr05	25769500	AA	GG	1946849350
SNP_P4_73346_25769643	NC_021164.1	Ca_kabuli_chr05	25769643	AA	GG	1946849352
SNP_P4_73349_25789328	NC_021164.1	Ca_kabuli_chr05	25789328	AA	CC	1946849354
SNP_P4_73350_25802216	NC_021164.1	Ca_kabuli_chr05	25802216	AA	GG	1946849356
SNP_P4_73352_25802262	NC_021164.1	Ca_kabuli_chr05	25802262	GG	AA	1946849358
SNP_P4_73353_25803726	NC_021164.1	Ca_kabuli_chr05	25803726	CC	GG	1946849360
SNP_P4_73354_25803731	NC_021164.1	Ca_kabuli_chr05	25803731	CC	TT	1946849362
SNP_P4_73356_25803883	NC_021164.1	Ca_kabuli_chr05	25803883	TT	GG	1946849364
SNP_P4_73357_25803912	NC_021164.1	Ca_kabuli_chr05	25803912	TT	CC	1946849366
SNP_P4_73358_25804029	NC_021164.1	Ca_kabuli_chr05	25804029	GG	AA	1946849368
SNP_P4_73359_25804093	NC_021164.1	Ca_kabuli_chr05	25804093	CC	TT	1946849370
SNP_P4_73360_25804190	NC_021164.1	Ca_kabuli_chr05	25804190	CC	TT	1946849372
SNP_P4_73361_25804195	NC_021164.1	Ca_kabuli_chr05	25804195	TT	AA	1946849374
SNP_P4_73362_25804254	NC_021164.1	Ca_kabuli_chr05	25804254	CC	TT	1946849376
SNP_P4_73363_25804256	NC_021164.1	Ca_kabuli_chr05	25804256	AA	TT	1946849378
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SNP_P4_73366_25810020	NC_021164.1	Ca_kabuli_chr05	25810020	GG	AA	1946849384
SNP_P4_73368_25836446	NC_021164.1	Ca_kabuli_chr05	25836446	CC	AA	1946849386
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SNP_P4_73371_25836635	NC_021164.1	Ca_kabuli_chr05	25836635	CC	TT	1946849390
SNP_P4_73372_25836690	NC_021164.1	Ca_kabuli_chr05	25836690	AA	CC	1946849392
SNP_P4_73373_25836706	NC_021164.1	Ca_kabuli_chr05	25836706	TT	CC	1946849394
SNP_P4_73374_25840875	NC_021164.1	Ca_kabuli_chr05	25840875	CC	TT	1946849396
SNP_P4_73375_25840887	NC_021164.1	Ca_kabuli_chr05	25840887	TT	CC	1946849398
SNP_P4_73376_25847787	NC_021164.1	Ca_kabuli_chr05	25847787	GG	TT	1946849400
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SNP_P4_73378_25847880	NC_021164.1	Ca_kabuli_chr05	25847880	AA	CC	1946849404
SNP_P4_73379_25855120	NC_021164.1	Ca_kabuli_chr05	25855120	GG	AA	1946849406
SNP_P4_73381_25861494	NC_021164.1	Ca_kabuli_chr05	25861494	TT	CC	1946849408
SNP_P4_73382_25861512	NC_021164.1	Ca_kabuli_chr05	25861512	TT	AA	1946849410
SNP_P4_73385_25896597	NC_021164.1	Ca_kabuli_chr05	25896597	AA	GG	1946849412
SNP_P4_73387_25902942	NC_021164.1	Ca_kabuli_chr05	25902942	TT	GG	1946849414
SNP_P4_73389_25948241	NC_021164.1	Ca_kabuli_chr05	25948241	TT	GG	1946849416

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_73392_25955187	NC_021164.1	Ca_kabuli_chr05	25955187	TT	CC	1946849422
SNP_P4_73393_25967565	NC_021164.1	Ca_kabuli_chr05	25967565	CC	TT	1946849425
SNP_P4_73394_25985508	NC_021164.1	Ca_kabuli_chr05	25985508	AA	GG	1946849427
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SNP_P4_73396_26041712	NC_021164.1	Ca_kabuli_chr05	26041712	AA	CC	1946849432
SNP_P4_73397_26041713	NC_021164.1	Ca_kabuli_chr05	26041713	TT	AA	1946849434
SNP_P4_73398_26077290	NC_021164.1	Ca_kabuli_chr05	26077290	AA	GG	1946849436
SNP_P4_73399_26077341	NC_021164.1	Ca_kabuli_chr05	26077341	CC	TT	1946849438
SNP_P4_73400_26077393	NC_021164.1	Ca_kabuli_chr05	26077393	AA	GG	1946849440
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SNP_P4_73413_26217776	NC_021164.1	Ca_kabuli_chr05	26217776	TT	CC	1946849462
SNP_P4_73414_26233295	NC_021164.1	Ca_kabuli_chr05	26233295	AA	TT	1946849464
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SNP_P4_73418_26269688	NC_021164.1	Ca_kabuli_chr05	26269688	CC	TT	1946849470
SNP_P4_73420_26281314	NC_021164.1	Ca_kabuli_chr05	26281314	TT	AA	1946849472
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SNP_P4_73422_26285409	NC_021164.1	Ca_kabuli_chr05	26285409	CC	TT	1946849476
SNP_P4_73423_26285482	NC_021164.1	Ca_kabuli_chr05	26285482	GG	AA	1946849478
SNP_P4_73424_26285676	NC_021164.1	Ca_kabuli_chr05	26285676	CC	AA	1946849480
SNP_P4_73425_26308208	NC_021164.1	Ca_kabuli_chr05	26308208	AA	CC	1946849482
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SNP_P4_73427_26308235	NC_021164.1	Ca_kabuli_chr05	26308235	TT	GG	1946849486
SNP_P4_73428_26308258	NC_021164.1	Ca_kabuli_chr05	26308258	CC	TT	1946849488
SNP_P4_73430_26333626	NC_021164.1	Ca_kabuli_chr05	26333626	TT	CC	1946849490
SNP_P4_73431_26333677	NC_021164.1	Ca_kabuli_chr05	26333677	AA	CC	1946849492
SNP_P4_73432_26379452	NC_021164.1	Ca_kabuli_chr05	26379452	GG	AA	1946849494
SNP_P4_73433_26380022	NC_021164.1	Ca_kabuli_chr05	26380022	TT	CC	1946849496
SNP_P4_73434_26391147	NC_021164.1	Ca_kabuli_chr05	26391147	AA	GG	1946849498
SNP_P4_73435_26395735	NC_021164.1	Ca_kabuli_chr05	26395735	CC	AA	1946849500
SNP_P4_73436_26396668	NC_021164.1	Ca_kabuli_chr05	26396668	CC	AA	1946849502

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_73440_26424859	NC_021164.1	Ca_kabuli_chr05	26424859	AA	GG	1946849508
SNP_P4_73441_26438761	NC_021164.1	Ca_kabuli_chr05	26438761	CC	AA	1946849510
SNP_P4_73442_26449326	NC_021164.1	Ca_kabuli_chr05	26449326	CC	TT	1946849512
SNP_P4_73443_26449343	NC_021164.1	Ca_kabuli_chr05	26449343	CC	TT	1946849514
SNP_P4_73444_26451440	NC_021164.1	Ca_kabuli_chr05	26451440	CC	GG	1946849516
SNP_P4_73445_26454077	NC_021164.1	Ca_kabuli_chr05	26454077	TT	GG	1946849518
SNP_P4_73446_26454136	NC_021164.1	Ca_kabuli_chr05	26454136	TT	AA	1946849520
SNP_P4_73447_26454172	NC_021164.1	Ca_kabuli_chr05	26454172	GG	AA	1946849522
SNP_P4_73448_26454210	NC_021164.1	Ca_kabuli_chr05	26454210	GG	AA	1946849524
SNP_P4_73449_26454469	NC_021164.1	Ca_kabuli_chr05	26454469	AA	TT	1946849526
SNP_P4_73450_26454475	NC_021164.1	Ca_kabuli_chr05	26454475	TT	GG	1946849528
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SNP_P4_73452_26454499	NC_021164.1	Ca_kabuli_chr05	26454499	AA	GG	1946849532
SNP_P4_73453_26456545	NC_021164.1	Ca_kabuli_chr05	26456545	AA	GG	1946849534
SNP_P4_73454_26456995	NC_021164.1	Ca_kabuli_chr05	26456995	TT	GG	1946849536
SNP_P4_73456_26457062	NC_021164.1	Ca_kabuli_chr05	26457062	AA	GG	1946849538
SNP_P4_73457_26457067	NC_021164.1	Ca_kabuli_chr05	26457067	AA	GG	1946849540
SNP_P4_73458_26457101	NC_021164.1	Ca_kabuli_chr05	26457101	GG	AA	1946849542
SNP_P4_73459_26457104	NC_021164.1	Ca_kabuli_chr05	26457104	TT	CC	1946849544
SNP_P4_73460_26457118	NC_021164.1	Ca_kabuli_chr05	26457118	AA	GG	1946849546
SNP_P4_73461_26457121	NC_021164.1	Ca_kabuli_chr05	26457121	TT	CC	1946849548
SNP_P4_73462_26457135	NC_021164.1	Ca_kabuli_chr05	26457135	TT	GG	1946849550
SNP_P4_73463_26457136	NC_021164.1	Ca_kabuli_chr05	26457136	TT	GG	1946849552
SNP_P4_73464_26457140	NC_021164.1	Ca_kabuli_chr05	26457140	TT	CC	1946849554
SNP_P4_73465_26457176	NC_021164.1	Ca_kabuli_chr05	26457176	AA	CC	1946849556
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SNP_P4_73467_26461676	NC_021164.1	Ca_kabuli_chr05	26461676	CC	TT	1946849560
SNP_P4_73468_26463127	NC_021164.1	Ca_kabuli_chr05	26463127	GG	TT	1946849562
SNP_P4_73469_26490362	NC_021164.1	Ca_kabuli_chr05	26490362	TT	CC	1946849565
SNP_P4_73470_26512780	NC_021164.1	Ca_kabuli_chr05	26512780	TT	CC	1946849566
SNP_P4_73471_26521330	NC_021164.1	Ca_kabuli_chr05	26521330	AA	CC	1946849569
SNP_P4_73473_26537446	NC_021164.1	Ca_kabuli_chr05	26537446	TT	CC	1946849571
SNP_P4_73476_26587957	NC_021164.1	Ca_kabuli_chr05	26587957	CC	TT	1946849573
SNP_P4_73477_26680631	NC_021164.1	Ca_kabuli_chr05	26680631	GG	AA	1946849575
SNP_P4_73478_26796601	NC_021164.1	Ca_kabuli_chr05	26796601	TT	CC	1946849577
SNP_P4_73479_26799718	NC_021164.1	Ca_kabuli_chr05	26799718	CC	AA	1946849579
SNP_P4_73481_26856682	NC_021164.1	Ca_kabuli_chr05	26856682	AA	TT	1946849581
SNP_P4_73482_26857687	NC_021164.1	Ca_kabuli_chr05	26857687	AA	GG	1946849583
SNP_P4_73485_26889308	NC_021164.1	Ca_kabuli_chr05	26889308	CC	TT	1946849585
SNP_P4_73486_26889327	NC_021164.1	Ca_kabuli_chr05	26889327	TT	AA	1946849587

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_73490_26889538	NC_021164.1	Ca_kabuli_chr05	26889538	GG	AA	1946849593
SNP_P4_73491_26889539	NC_021164.1	Ca_kabuli_chr05	26889539	TT	CC	1946849595
SNP_P4_73492_26889555	NC_021164.1	Ca_kabuli_chr05	26889555	GG	AA	1946849597
SNP_P4_73493_26889557	NC_021164.1	Ca_kabuli_chr05	26889557	TT	CC	1946849599
SNP_P4_73494_26929010	NC_021164.1	Ca_kabuli_chr05	26929010	GG	CC	1946849601
SNP_P4_73495_26935803	NC_021164.1	Ca_kabuli_chr05	26935803	CC	AA	1946849603
SNP_P4_73496_26987645	NC_021164.1	Ca_kabuli_chr05	26987645	TT	AA	1946849605
SNP_P4_73497_26987679	NC_021164.1	Ca_kabuli_chr05	26987679	AA	GG	1946849607
SNP_P4_73498_26987707	NC_021164.1	Ca_kabuli_chr05	26987707	TT	CC	1946849610
SNP_P4_73499_26987788	NC_021164.1	Ca_kabuli_chr05	26987788	AA	GG	1946849612
SNP_P4_73500_26988136	NC_021164.1	Ca_kabuli_chr05	26988136	GG	TT	1946849614
SNP_P4_73501_26988162	NC_021164.1	Ca_kabuli_chr05	26988162	TT	CC	1946849616
SNP_P4_73502_26988206	NC_021164.1	Ca_kabuli_chr05	26988206	CC	TT	1946849618
SNP_P4_73503_26988211	NC_021164.1	Ca_kabuli_chr05	26988211	CC	TT	1946849620
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SNP_P4_73509_26989104	NC_021164.1	Ca_kabuli_chr05	26989104	AA	TT	1946849633
SNP_P4_73510_26989121	NC_021164.1	Ca_kabuli_chr05	26989121	CC	TT	1946849635
SNP_P4_73512_26989181	NC_021164.1	Ca_kabuli_chr05	26989181	TT	CC	1946849637
SNP_P4_73513_26989268	NC_021164.1	Ca_kabuli_chr05	26989268	TT	AA	1946849639
SNP_P4_73514_26989282	NC_021164.1	Ca_kabuli_chr05	26989282	AA	CC	1946849641
SNP_P4_73515_26989455	NC_021164.1	Ca_kabuli_chr05	26989455	TT	CC	1946849643
SNP_P4_73516_26989457	NC_021164.1	Ca_kabuli_chr05	26989457	GG	AA	1946849645
SNP_P4_73517_26994524	NC_021164.1	Ca_kabuli_chr05	26994524	AA	TT	1946849647
SNP_P4_73518_26994526	NC_021164.1	Ca_kabuli_chr05	26994526	TT	AA	1946849649
SNP_P4_73519_26994527	NC_021164.1	Ca_kabuli_chr05	26994527	TT	AA	1946849651
SNP_P4_73520_26994528	NC_021164.1	Ca_kabuli_chr05	26994528	CC	GG	1946849653
SNP_P4_73521_26994529	NC_021164.1	Ca_kabuli_chr05	26994529	TT	GG	1946849655
SNP_P4_73522_26994530	NC_021164.1	Ca_kabuli_chr05	26994530	GG	TT	1946849657
SNP_P4_73523_26994531	NC_021164.1	Ca_kabuli_chr05	26994531	CC	TT	1946849659
SNP_P4_73524_26994560	NC_021164.1	Ca_kabuli_chr05	26994560	CC	TT	1946849661
SNP_P4_73525_26994609	NC_021164.1	Ca_kabuli_chr05	26994609	GG	AA	1946849663
SNP_P4_73526_26994661	NC_021164.1	Ca_kabuli_chr05	26994661	CC	AA	1946849665
SNP_P4_73527_26994821	NC_021164.1	Ca_kabuli_chr05	26994821	TT	GG	1946849667
SNP_P4_73528_26994864	NC_021164.1	Ca_kabuli_chr05	26994864	TT	CC	1946849669
SNP_P4_73529_26994930	NC_021164.1	Ca_kabuli_chr05	26994930	TT	CC	1946849672
SNP_P4_73530_26994958	NC_021164.1	Ca_kabuli_chr05	26994958	TT	CC	1946849674

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_73534_26995118	NC_021164.1	Ca_kabuli_chr05	26995118	GG	AA	1946849680
SNP_P4_73535_26995132	NC_021164.1	Ca_kabuli_chr05	26995132	AA	TT	1946849682
SNP_P4_73537_26995983	NC_021164.1	Ca_kabuli_chr05	26995983	TT	CC	1946849684
SNP_P4_73538_26996045	NC_021164.1	Ca_kabuli_chr05	26996045	CC	AA	1946849686
SNP_P4_73539_26996074	NC_021164.1	Ca_kabuli_chr05	26996074	TT	CC	1946849688
SNP_P4_73540_26996096	NC_021164.1	Ca_kabuli_chr05	26996096	AA	GG	1946849690
SNP_P4_73541_26996104	NC_021164.1	Ca_kabuli_chr05	26996104	TT	CC	1946849692
SNP_P4_73542_26996105	NC_021164.1	Ca_kabuli_chr05	26996105	TT	CC	1946849694
SNP_P4_73543_26996106	NC_021164.1	Ca_kabuli_chr05	26996106	AA	GG	1946849696
SNP_P4_73545_26996197	NC_021164.1	Ca_kabuli_chr05	26996197	AA	GG	1946849698
SNP_P4_73546_26996207	NC_021164.1	Ca_kabuli_chr05	26996207	TT	CC	1946849700
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SNP_P4_73548_26996236	NC_021164.1	Ca_kabuli_chr05	26996236	AA	GG	1946849704
SNP_P4_73549_26996352	NC_021164.1	Ca_kabuli_chr05	26996352	TT	CC	1946849706
SNP_P4_73550_26996382	NC_021164.1	Ca_kabuli_chr05	26996382	AA	GG	1946849708
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SNP_P4_73556_26996515	NC_021164.1	Ca_kabuli_chr05	26996515	TT	CC	1946849720
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SNP_P4_73566_26997057	NC_021164.1	Ca_kabuli_chr05	26997057	TT	CC	1946849738
SNP_P4_73567_26997067	NC_021164.1	Ca_kabuli_chr05	26997067	AA	GG	1946849740
SNP_P4_73568_26997209	NC_021164.1	Ca_kabuli_chr05	26997209	TT	CC	1946849742
SNP_P4_73569_26997245	NC_021164.1	Ca_kabuli_chr05	26997245	TT	CC	1946849744
SNP_P4_73570_26997263	NC_021164.1	Ca_kabuli_chr05	26997263	AA	CC	1946849746
SNP_P4_73571_26997489	NC_021164.1	Ca_kabuli_chr05	26997489	AA	GG	1946849748
SNP_P4_73572_26997512	NC_021164.1	Ca_kabuli_chr05	26997512	TT	CC	1946849750
SNP_P4_73573_26997632	NC_021164.1	Ca_kabuli_chr05	26997632	TT	GG	1946849752
SNP_P4_73574_26997647	NC_021164.1	Ca_kabuli_chr05	26997647	TT	CC	1946849754
SNP_P4_73575_26997826	NC_021164.1	Ca_kabuli_chr05	26997826	TT	CC	1946849756
SNP_P4_73576_26997832	NC_021164.1	Ca_kabuli_chr05	26997832	TT	CC	1946849758

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_73579_26997937	NC_021164.1	Ca_kabuli_chr05	26997937	TT	CC	1946849765
SNP_P4_73580_26997968	NC_021164.1	Ca_kabuli_chr05	26997968	AA	GG	1946849767
SNP_P4_73581_26997987	NC_021164.1	Ca_kabuli_chr05	26997987	TT	CC	1946849769
SNP_P4_73582_26997997	NC_021164.1	Ca_kabuli_chr05	26997997	TT	GG	1946849770
SNP_P4_73583_26998004	NC_021164.1	Ca_kabuli_chr05	26998004	TT	CC	1946849771
SNP_P4_73584_26998028	NC_021164.1	Ca_kabuli_chr05	26998028	TT	CC	1946849772
SNP_P4_73585_26998036	NC_021164.1	Ca_kabuli_chr05	26998036	AA	CC	1946849773
SNP_P4_73586_26998051	NC_021164.1	Ca_kabuli_chr05	26998051	AA	GG	1946849774
SNP_P4_73587_26998141	NC_021164.1	Ca_kabuli_chr05	26998141	AA	GG	1946849775
SNP_P4_73588_26998172	NC_021164.1	Ca_kabuli_chr05	26998172	AA	CC	1946849776
SNP_P4_73589_26998219	NC_021164.1	Ca_kabuli_chr05	26998219	TT	CC	1946849777
SNP_P4_73590_26998354	NC_021164.1	Ca_kabuli_chr05	26998354	TT	CC	1946849778
SNP_P4_73591_26998414	NC_021164.1	Ca_kabuli_chr05	26998414	TT	CC	1946849780
SNP_P4_73592_26998429	NC_021164.1	Ca_kabuli_chr05	26998429	TT	CC	1946849782
SNP_P4_73593_26998483	NC_021164.1	Ca_kabuli_chr05	26998483	TT	CC	1946849784
SNP_P4_73594_26998558	NC_021164.1	Ca_kabuli_chr05	26998558	GG	CC	1946849786
SNP_P4_73596_26998614	NC_021164.1	Ca_kabuli_chr05	26998614	CC	GG	1946849788
SNP_P4_73597_26998624	NC_021164.1	Ca_kabuli_chr05	26998624	TT	CC	1946849790
SNP_P4_73598_26998653	NC_021164.1	Ca_kabuli_chr05	26998653	AA	GG	1946849792
SNP_P4_73599_26998683	NC_021164.1	Ca_kabuli_chr05	26998683	TT	CC	1946849794
SNP_P4_73600_26998848	NC_021164.1	Ca_kabuli_chr05	26998848	AA	CC	1946849796
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SNP_P4_73603_26998900	NC_021164.1	Ca_kabuli_chr05	26998900	AA	GG	1946849802
SNP_P4_73604_26998937	NC_021164.1	Ca_kabuli_chr05	26998937	GG	TT	1946849804
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SNP_P4_73606_26999645	NC_021164.1	Ca_kabuli_chr05	26999645	GG	TT	1946849808
SNP_P4_73607_26999681	NC_021164.1	Ca_kabuli_chr05	26999681	AA	CC	1946849810
SNP_P4_73608_26999797	NC_021164.1	Ca_kabuli_chr05	26999797	AA	GG	1946849812
SNP_P4_73609_26999813	NC_021164.1	Ca_kabuli_chr05	26999813	TT	GG	1946849814
SNP_P4_73610_26999851	NC_021164.1	Ca_kabuli_chr05	26999851	CC	AA	1946849816
SNP_P4_73611_26999898	NC_021164.1	Ca_kabuli_chr05	26999898	AA	GG	1946849818
SNP_P4_73612_26999903	NC_021164.1	Ca_kabuli_chr05	26999903	TT	AA	1946849820
SNP_P4_73613_26999950	NC_021164.1	Ca_kabuli_chr05	26999950	AA	TT	1946849822
SNP_P4_73615_27000090	NC_021164.1	Ca_kabuli_chr05	27000090	AA	GG	1946849824
SNP_P4_73616_27000104	NC_021164.1	Ca_kabuli_chr05	27000104	AA	CC	1946849826
SNP_P4_73619_27000280	NC_021164.1	Ca_kabuli_chr05	27000280	TT	GG	1946849828
SNP_P4_73620_27000295	NC_021164.1	Ca_kabuli_chr05	27000295	AA	CC	1946849830
SNP_P4_73621_27000343	NC_021164.1	Ca_kabuli_chr05	27000343	TT	CC	1946849832
SNP_P4_73622_27000385	NC_021164.1	Ca_kabuli_chr05	27000385	TT	CC	1946849834

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_73626_27000509	NC_021164.1	Ca_kabuli_chr05	27000509	GG	AA	1946849840
SNP_P4_73628_27000545	NC_021164.1	Ca_kabuli_chr05	27000545	GG	TT	1946849842
SNP_P4_73629_27000550	NC_021164.1	Ca_kabuli_chr05	27000550	CC	TT	1946849844
SNP_P4_73630_27000627	NC_021164.1	Ca_kabuli_chr05	27000627	AA	CC	1946849846
SNP_P4_73631_27000630	NC_021164.1	Ca_kabuli_chr05	27000630	AA	GG	1946849848
SNP_P4_73632_27000723	NC_021164.1	Ca_kabuli_chr05	27000723	CC	TT	1946849850
SNP_P4_73634_27000810	NC_021164.1	Ca_kabuli_chr05	27000810	CC	TT	1946849852
SNP_P4_73636_27000878	NC_021164.1	Ca_kabuli_chr05	27000878	TT	AA	1946849854
SNP_P4_73637_27000886	NC_021164.1	Ca_kabuli_chr05	27000886	AA	CC	1946849856
SNP_P4_73638_27000994	NC_021164.1	Ca_kabuli_chr05	27000994	AA	CC	1946849858
SNP_P4_73639_27001020	NC_021164.1	Ca_kabuli_chr05	27001020	AA	CC	1946849860
SNP_P4_73640_27001081	NC_021164.1	Ca_kabuli_chr05	27001081	AA	GG	1946849862
SNP_P4_73641_27001101	NC_021164.1	Ca_kabuli_chr05	27001101	AA	TT	1946849865
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SNP_P4_73644_27001273	NC_021164.1	Ca_kabuli_chr05	27001273	CC	AA	1946849871
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SNP_P4_73649_27036944	NC_021164.1	Ca_kabuli_chr05	27036944	AA	CC	1946849881
SNP_P4_73650_27048712	NC_021164.1	Ca_kabuli_chr05	27048712	CC	AA	1946849883
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SNP_P4_73652_27090240	NC_021164.1	Ca_kabuli_chr05	27090240	GG	AA	1946849887
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SNP_P4_73657_27107343	NC_021164.1	Ca_kabuli_chr05	27107343	AA	TT	1946849896
SNP_P4_73658_27107349	NC_021164.1	Ca_kabuli_chr05	27107349	TT	CC	1946849898
SNP_P4_73659_27107383	NC_021164.1	Ca_kabuli_chr05	27107383	AA	TT	1946849900
SNP_P4_73660_27107639	NC_021164.1	Ca_kabuli_chr05	27107639	CC	TT	1946849903
SNP_P4_73661_27107670	NC_021164.1	Ca_kabuli_chr05	27107670	TT	CC	1946849905
SNP_P4_73662_27107718	NC_021164.1	Ca_kabuli_chr05	27107718	CC	TT	1946849907
SNP_P4_73663_27107725	NC_021164.1	Ca_kabuli_chr05	27107725	TT	AA	1946849909
SNP_P4_73664_27135749	NC_021164.1	Ca_kabuli_chr05	27135749	GG	TT	1946849911
SNP_P4_73665_27135768	NC_021164.1	Ca_kabuli_chr05	27135768	CC	TT	1946849913
SNP_P4_73666_27164955	NC_021164.1	Ca_kabuli_chr05	27164955	AA	GG	1946849916
SNP_P4_73667_27164956	NC_021164.1	Ca_kabuli_chr05	27164956	TT	GG	1946849918
SNP_P4_73668_27178567	NC_021164.1	Ca_kabuli_chr05	27178567	CC	TT	1946849920
SNP_P4_73669_27204647	NC_021164.1	Ca_kabuli_chr05	27204647	CC	TT	1946849922

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_73672_27204849	NC_021164.1	Ca_kabuli_chr05	27204849	TT	AA	1946849928
SNP_P4_73673_27204850	NC_021164.1	Ca_kabuli_chr05	27204850	TT	CC	1946849930
SNP_P4_73674_27204851	NC_021164.1	Ca_kabuli_chr05	27204851	CC	AA	1946849932
SNP_P4_73675_27204852	NC_021164.1	Ca_kabuli_chr05	27204852	GG	AA	1946849934
SNP_P4_73676_27204853	NC_021164.1	Ca_kabuli_chr05	27204853	GG	CC	1946849936
SNP_P4_73677_27214628	NC_021164.1	Ca_kabuli_chr05	27214628	CC	TT	1946849938
SNP_P4_73679_27245074	NC_021164.1	Ca_kabuli_chr05	27245074	TT	CC	1946849940
SNP_P4_73680_27245099	NC_021164.1	Ca_kabuli_chr05	27245099	TT	CC	1946849942
SNP_P4_73681_27245148	NC_021164.1	Ca_kabuli_chr05	27245148	TT	GG	1946849944
SNP_P4_73682_27245167	NC_021164.1	Ca_kabuli_chr05	27245167	GG	AA	1946849945
SNP_P4_73683_27245177	NC_021164.1	Ca_kabuli_chr05	27245177	AA	TT	1946849947
SNP_P4_73684_27245201	NC_021164.1	Ca_kabuli_chr05	27245201	TT	GG	1946849949
SNP_P4_73685_27245206	NC_021164.1	Ca_kabuli_chr05	27245206	AA	CC	1946849951
SNP_P4_73686_27276804	NC_021164.1	Ca_kabuli_chr05	27276804	AA	GG	1946849953
SNP_P4_73687_27279897	NC_021164.1	Ca_kabuli_chr05	27279897	AA	GG	1946849955
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SNP_P4_73691_27346713	NC_021164.1	Ca_kabuli_chr05	27346713	TT	GG	1946849963
SNP_P4_73692_27346714	NC_021164.1	Ca_kabuli_chr05	27346714	AA	TT	1946849965
SNP_P4_73693_27357084	NC_021164.1	Ca_kabuli_chr05	27357084	TT	AA	1946849967
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SNP_P4_73695_27368447	NC_021164.1	Ca_kabuli_chr05	27368447	AA	GG	1946849971
SNP_P4_73696_27386961	NC_021164.1	Ca_kabuli_chr05	27386961	TT	CC	1946849973
SNP_P4_73697_27388096	NC_021164.1	Ca_kabuli_chr05	27388096	AA	GG	1946849975
SNP_P4_73699_27392954	NC_021164.1	Ca_kabuli_chr05	27392954	TT	CC	1946849977
SNP_P4_73701_27425053	NC_021164.1	Ca_kabuli_chr05	27425053	GG	AA	1946849979
SNP_P4_73702_27427458	NC_021164.1	Ca_kabuli_chr05	27427458	TT	AA	1946849981
SNP_P4_73703_27427459	NC_021164.1	Ca_kabuli_chr05	27427459	GG	TT	1946849983
SNP_P4_73704_27427622	NC_021164.1	Ca_kabuli_chr05	27427622	AA	CC	1946849985
SNP_P4_73705_27427694	NC_021164.1	Ca_kabuli_chr05	27427694	GG	AA	1946849987
SNP_P4_73706_27427695	NC_021164.1	Ca_kabuli_chr05	27427695	TT	CC	1946849989
SNP_P4_73707_27427699	NC_021164.1	Ca_kabuli_chr05	27427699	AA	TT	1946849991
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SNP_P4_73710_27427716	NC_021164.1	Ca_kabuli_chr05	27427716	GG	AA	1946849997
SNP_P4_73711_27427725	NC_021164.1	Ca_kabuli_chr05	27427725	GG	TT	1946849999
SNP_P4_73712_27427732	NC_021164.1	Ca_kabuli_chr05	27427732	CC	GG	1946850001
SNP_P4_73713_27427734	NC_021164.1	Ca_kabuli_chr05	27427734	TT	AA	1946850003
SNP_P4_73714_27428266	NC_021164.1	Ca_kabuli_chr05	27428266	CC	TT	1946850005

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_73717_27458394	NC_021164.1	Ca_kabuli_chr05	27458394	AA	TT	1946850011
SNP_P4_73718_27458395	NC_021164.1	Ca_kabuli_chr05	27458395	TT	CC	1946850013
SNP_P4_73721_27473345	NC_021164.1	Ca_kabuli_chr05	27473345	CC	TT	1946850015
SNP_P4_73722_27491979	NC_021164.1	Ca_kabuli_chr05	27491979	GG	CC	1946850017
SNP_P4_73725_27537329	NC_021164.1	Ca_kabuli_chr05	27537329	AA	GG	1946850018
SNP_P4_73726_27537332	NC_021164.1	Ca_kabuli_chr05	27537332	TT	CC	1946850020
SNP_P4_73727_27557946	NC_021164.1	Ca_kabuli_chr05	27557946	TT	AA	1946850022
SNP_P4_73728_27557947	NC_021164.1	Ca_kabuli_chr05	27557947	AA	TT	1946850024
SNP_P4_73729_27560636	NC_021164.1	Ca_kabuli_chr05	27560636	CC	TT	1946850026
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SNP_P4_73736_27567571	NC_021164.1	Ca_kabuli_chr05	27567571	TT	GG	1946850040
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SNP_P4_73749_27654802	NC_021164.1	Ca_kabuli_chr05	27654802	AA	TT	1946850065
SNP_P4_73750_27672246	NC_021164.1	Ca_kabuli_chr05	27672246	GG	AA	1946850067
SNP_P4_73751_27674600	NC_021164.1	Ca_kabuli_chr05	27674600	CC	AA	1946850069
SNP_P4_73752_27685793	NC_021164.1	Ca_kabuli_chr05	27685793	GG	AA	1946850070
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SNP_P4_73761_27800816	NC_021164.1	Ca_kabuli_chr05	27800816	GG	AA	1946850078
SNP_P4_73763_27800979	NC_021164.1	Ca_kabuli_chr05	27800979	GG	AA	1946850080
SNP_P4_73764_27801044	NC_021164.1	Ca_kabuli_chr05	27801044	GG	AA	1946850082
SNP_P4_73765_27811474	NC_021164.1	Ca_kabuli_chr05	27811474	CC	GG	1946850084
SNP_P4_73766_27811625	NC_021164.1	Ca_kabuli_chr05	27811625	CC	TT	1946850086

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_73769_27835141	NC_021164.1	Ca_kabuli_chr05	27835141	CC	TT	1946850092
SNP_P4_73770_27835154	NC_021164.1	Ca_kabuli_chr05	27835154	AA	TT	1946850094
SNP_P4_73771_27835228	NC_021164.1	Ca_kabuli_chr05	27835228	AA	GG	1946850096
SNP_P4_73772_27835250	NC_021164.1	Ca_kabuli_chr05	27835250	CC	AA	1946850098
SNP_P4_73773_27835281	NC_021164.1	Ca_kabuli_chr05	27835281	CC	TT	1946850100
SNP_P4_73774_27835286	NC_021164.1	Ca_kabuli_chr05	27835286	AA	GG	1946850102
SNP_P4_73775_27835292	NC_021164.1	Ca_kabuli_chr05	27835292	AA	TT	1946850104
SNP_P4_73776_27835348	NC_021164.1	Ca_kabuli_chr05	27835348	TT	CC	1946850106
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SNP_P4_73782_27844864	NC_021164.1	Ca_kabuli_chr05	27844864	TT	GG	1946850118
SNP_P4_73783_27846104	NC_021164.1	Ca_kabuli_chr05	27846104	AA	GG	1946850120
SNP_P4_73784_27847858	NC_021164.1	Ca_kabuli_chr05	27847858	CC	GG	1946850122
SNP_P4_73785_27863580	NC_021164.1	Ca_kabuli_chr05	27863580	TT	AA	1946850124
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SNP_P4_73787_27905228	NC_021164.1	Ca_kabuli_chr05	27905228	TT	AA	1946850128
SNP_P4_73789_27923605	NC_021164.1	Ca_kabuli_chr05	27923605	TT	AA	1946850130
SNP_P4_73790_27923611	NC_021164.1	Ca_kabuli_chr05	27923611	AA	TT	1946850132
SNP_P4_73791_27929617	NC_021164.1	Ca_kabuli_chr05	27929617	TT	CC	1946850134
SNP_P4_73793_27950142	NC_021164.1	Ca_kabuli_chr05	27950142	TT	AA	1946850136
SNP_P4_73794_27950372	NC_021164.1	Ca_kabuli_chr05	27950372	GG	TT	1946850137
SNP_P4_73795_27953082	NC_021164.1	Ca_kabuli_chr05	27953082	CC	TT	1946850139
SNP_P4_73796_27953109	NC_021164.1	Ca_kabuli_chr05	27953109	CC	AA	1946850141
SNP_P4_73797_27953161	NC_021164.1	Ca_kabuli_chr05	27953161	GG	TT	1946850143
SNP_P4_73798_27953164	NC_021164.1	Ca_kabuli_chr05	27953164	GG	AA	1946850145
SNP_P4_73799_27953200	NC_021164.1	Ca_kabuli_chr05	27953200	GG	AA	1946850147
SNP_P4_73800_27953206	NC_021164.1	Ca_kabuli_chr05	27953206	TT	AA	1946850149
SNP_P4_73801_27953212	NC_021164.1	Ca_kabuli_chr05	27953212	TT	AA	1946850151
SNP_P4_73802_27953245	NC_021164.1	Ca_kabuli_chr05	27953245	GG	AA	1946850153
SNP_P4_73803_27953293	NC_021164.1	Ca_kabuli_chr05	27953293	GG	AA	1946850155
SNP_P4_73804_27953475	NC_021164.1	Ca_kabuli_chr05	27953475	GG	CC	1946850157
SNP_P4_73805_27953501	NC_021164.1	Ca_kabuli_chr05	27953501	TT	CC	1946850159
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SNP_P4_73807_27953633	NC_021164.1	Ca_kabuli_chr05	27953633	GG	CC	1946850163
SNP_P4_73808_27953635	NC_021164.1	Ca_kabuli_chr05	27953635	GG	AA	1946850165
SNP_P4_73809_27953648	NC_021164.1	Ca_kabuli_chr05	27953648	AA	TT	1946850167
SNP_P4_73810_27953649	NC_021164.1	Ca_kabuli_chr05	27953649	AA	TT	1946850169

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_73812_27953654	NC_021164.1	Ca_kabuli_chr05	27953654	AA	GG	1946850173
SNP_P4_73814_27954262	NC_021164.1	Ca_kabuli_chr05	27954262	AA	TT	1946850175
SNP_P4_73815_27954369	NC_021164.1	Ca_kabuli_chr05	27954369	AA	TT	1946850176
SNP_P4_73816_27954390	NC_021164.1	Ca_kabuli_chr05	27954390	CC	TT	1946850178
SNP_P4_73817_27954692	NC_021164.1	Ca_kabuli_chr05	27954692	GG	AA	1946850180
SNP_P4_73818_27954712	NC_021164.1	Ca_kabuli_chr05	27954712	GG	AA	1946850182
SNP_P4_73819_27954714	NC_021164.1	Ca_kabuli_chr05	27954714	AA	TT	1946850184
SNP_P4_73820_27954722	NC_021164.1	Ca_kabuli_chr05	27954722	TT	AA	1946850186
SNP_P4_73821_27954723	NC_021164.1	Ca_kabuli_chr05	27954723	TT	AA	1946850188
SNP_P4_73822_27954801	NC_021164.1	Ca_kabuli_chr05	27954801	AA	GG	1946850190
SNP_P4_73823_27954820	NC_021164.1	Ca_kabuli_chr05	27954820	CC	AA	1946850192
SNP_P4_73824_27954850	NC_021164.1	Ca_kabuli_chr05	27954850	TT	GG	1946850194
SNP_P4_73826_27967328	NC_021164.1	Ca_kabuli_chr05	27967328	AA	TT	1946850196
SNP_P4_73828_28021031	NC_021164.1	Ca_kabuli_chr05	28021031	TT	AA	1946850198
SNP_P4_73829_28049808	NC_021164.1	Ca_kabuli_chr05	28049808	CC	TT	1946850200
SNP_P4_73830_28055695	NC_021164.1	Ca_kabuli_chr05	28055695	CC	TT	1946850202
SNP_P4_73831_28056188	NC_021164.1	Ca_kabuli_chr05	28056188	GG	AA	1946850204
SNP_P4_73832_28058152	NC_021164.1	Ca_kabuli_chr05	28058152	CC	TT	1946850205
SNP_P4_73833_28058181	NC_021164.1	Ca_kabuli_chr05	28058181	GG	AA	1946850207
SNP_P4_73834_28058213	NC_021164.1	Ca_kabuli_chr05	28058213	TT	AA	1946850209
SNP_P4_73835_28058489	NC_021164.1	Ca_kabuli_chr05	28058489	GG	CC	1946850211
SNP_P4_73836_28058519	NC_021164.1	Ca_kabuli_chr05	28058519	GG	AA	1946850213
SNP_P4_73837_28058532	NC_021164.1	Ca_kabuli_chr05	28058532	TT	AA	1946850215
SNP_P4_73838_28058584	NC_021164.1	Ca_kabuli_chr05	28058584	TT	CC	1946850217
SNP_P4_73840_28064131	NC_021164.1	Ca_kabuli_chr05	28064131	GG	AA	1946850219
SNP_P4_73841_28067487	NC_021164.1	Ca_kabuli_chr05	28067487	TT	GG	1946850221
SNP_P4_73842_28067515	NC_021164.1	Ca_kabuli_chr05	28067515	CC	AA	1946850223
SNP_P4_73843_28089250	NC_021164.1	Ca_kabuli_chr05	28089250	CC	GG	1946850225
SNP_P4_73844_28089455	NC_021164.1	Ca_kabuli_chr05	28089455	TT	CC	1946850227
SNP_P4_73846_28106519	NC_021164.1	Ca_kabuli_chr05	28106519	CC	TT	1946850229
SNP_P4_73847_28125407	NC_021164.1	Ca_kabuli_chr05	28125407	TT	GG	1946850231
SNP_P4_73848_28134972	NC_021164.1	Ca_kabuli_chr05	28134972	AA	GG	1946850233
SNP_P4_73849_28143069	NC_021164.1	Ca_kabuli_chr05	28143069	CC	GG	1946850234
SNP_P4_73851_28155678	NC_021164.1	Ca_kabuli_chr05	28155678	TT	CC	1946850236
SNP_P4_73854_28190973	NC_021164.1	Ca_kabuli_chr05	28190973	GG	TT	1946850238
SNP_P4_73856_28216712	NC_021164.1	Ca_kabuli_chr05	28216712	TT	AA	1946850240
SNP_P4_73857_28238681	NC_021164.1	Ca_kabuli_chr05	28238681	TT	AA	1946850242
SNP_P4_73858_28238682	NC_021164.1	Ca_kabuli_chr05	28238682	AA	CC	1946850244
SNP_P4_73861_28248454	NC_021164.1	Ca_kabuli_chr05	28248454	CC	TT	1946850246
SNP_P4_73862_28248460	NC_021164.1	Ca_kabuli_chr05	28248460	AA	GG	1946850248
SNP_P4_73863_28248737	NC_021164.1	Ca_kabuli_chr05	28248737	AA	CC	1946850250

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_73865_28271732	NC_021164.1	Ca_kabuli_chr05	28271732	CC	TT	1946850254
SNP_P4_73866_28276686	NC_021164.1	Ca_kabuli_chr05	28276686	AA	TT	1946850255
SNP_P4_73869_28305429	NC_021164.1	Ca_kabuli_chr05	28305429	AA	TT	1946850257
SNP_P4_73871_28305498	NC_021164.1	Ca_kabuli_chr05	28305498	AA	GG	1946850259
SNP_P4_73872_28305499	NC_021164.1	Ca_kabuli_chr05	28305499	TT	GG	1946850261
SNP_P4_73873_28307501	NC_021164.1	Ca_kabuli_chr05	28307501	TT	CC	1946850263
SNP_P4_73875_28327868	NC_021164.1	Ca_kabuli_chr05	28327868	GG	AA	1946850265
SNP_P4_73877_28372589	NC_021164.1	Ca_kabuli_chr05	28372589	CC	GG	1946850267
SNP_P4_73878_28373745	NC_021164.1	Ca_kabuli_chr05	28373745	AA	GG	1946850269
SNP_P4_73879_28375215	NC_021164.1	Ca_kabuli_chr05	28375215	AA	GG	1946850271
SNP_P4_73880_28391737	NC_021164.1	Ca_kabuli_chr05	28391737	AA	GG	1946850273
SNP_P4_73881_28391780	NC_021164.1	Ca_kabuli_chr05	28391780	TT	CC	1946850275
SNP_P4_73882_28392189	NC_021164.1	Ca_kabuli_chr05	28392189	AA	TT	1946850277
SNP_P4_73883_28398388	NC_021164.1	Ca_kabuli_chr05	28398388	GG	AA	1946850278
SNP_P4_73885_28409305	NC_021164.1	Ca_kabuli_chr05	28409305	TT	CC	1946850280
SNP_P4_73886_28409621	NC_021164.1	Ca_kabuli_chr05	28409621	GG	AA	1946850282
SNP_P4_73887_28409782	NC_021164.1	Ca_kabuli_chr05	28409782	TT	CC	1946850284
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SNP_P4_73891_28413409	NC_021164.1	Ca_kabuli_chr05	28413409	CC	AA	1946850290
SNP_P4_73892_28413468	NC_021164.1	Ca_kabuli_chr05	28413468	TT	GG	1946850292
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SNP_P4_73898_28480018	NC_021164.1	Ca_kabuli_chr05	28480018	TT	AA	1946850302
SNP_P4_73899_28480051	NC_021164.1	Ca_kabuli_chr05	28480051	AA	CC	1946850304
SNP_P4_73900_28480125	NC_021164.1	Ca_kabuli_chr05	28480125	CC	TT	1946850306
SNP_P4_73901_28480126	NC_021164.1	Ca_kabuli_chr05	28480126	TT	GG	1946850307
SNP_P4_73902_28480396	NC_021164.1	Ca_kabuli_chr05	28480396	AA	GG	1946850309
SNP_P4_73903_28480434	NC_021164.1	Ca_kabuli_chr05	28480434	AA	GG	1946850311
SNP_P4_73904_28480454	NC_021164.1	Ca_kabuli_chr05	28480454	TT	GG	1946850313
SNP_P4_73905_28480455	NC_021164.1	Ca_kabuli_chr05	28480455	AA	GG	1946850315
SNP_P4_73906_28480505	NC_021164.1	Ca_kabuli_chr05	28480505	TT	CC	1946850317
SNP_P4_73907_28480511	NC_021164.1	Ca_kabuli_chr05	28480511	TT	GG	1946850319
SNP_P4_73908_28480574	NC_021164.1	Ca_kabuli_chr05	28480574	TT	CC	1946850321
SNP_P4_73909_28480938	NC_021164.1	Ca_kabuli_chr05	28480938	GG	TT	1946850323
SNP_P4_73911_28515721	NC_021164.1	Ca_kabuli_chr05	28515721	AA	TT	1946850325
SNP_P4_73912_28515723	NC_021164.1	Ca_kabuli_chr05	28515723	TT	AA	1946850327
SNP_P4_73913_28522632	NC_021164.1	Ca_kabuli_chr05	28522632	TT	CC	1946850329
SNP_P4_73914_28525109	NC_021164.1	Ca_kabuli_chr05	28525109	AA	GG	1946850331

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_73916_28525151	NC_021164.1	Ca_kabuli_chr05	28525151	AA	TT	1946850334
SNP_P4_73917_28525158	NC_021164.1	Ca_kabuli_chr05	28525158	GG	AA	1946850336
SNP_P4_73918_28525162	NC_021164.1	Ca_kabuli_chr05	28525162	AA	GG	1946850338
SNP_P4_73919_28525200	NC_021164.1	Ca_kabuli_chr05	28525200	AA	GG	1946850340
SNP_P4_73920_28525282	NC_021164.1	Ca_kabuli_chr05	28525282	AA	GG	1946850342
SNP_P4_73921_28525309	NC_021164.1	Ca_kabuli_chr05	28525309	GG	AA	1946850344
SNP_P4_73922_28525415	NC_021164.1	Ca_kabuli_chr05	28525415	GG	AA	1946850346
SNP_P4_73923_28525444	NC_021164.1	Ca_kabuli_chr05	28525444	AA	GG	1946850348
SNP_P4_73924_28525478	NC_021164.1	Ca_kabuli_chr05	28525478	GG	AA	1946850350
SNP_P4_73925_28525514	NC_021164.1	Ca_kabuli_chr05	28525514	GG	CC	1946850352
SNP_P4_73926_28525527	NC_021164.1	Ca_kabuli_chr05	28525527	CC	TT	1946850353
SNP_P4_73927_28525547	NC_021164.1	Ca_kabuli_chr05	28525547	AA	TT	1946850355
SNP_P4_73928_28525586	NC_021164.1	Ca_kabuli_chr05	28525586	CC	TT	1946850357
SNP_P4_73929_28525622	NC_021164.1	Ca_kabuli_chr05	28525622	TT	CC	1946850359
SNP_P4_73930_28525630	NC_021164.1	Ca_kabuli_chr05	28525630	AA	TT	1946850361
SNP_P4_73931_28525635	NC_021164.1	Ca_kabuli_chr05	28525635	AA	GG	1946850363
SNP_P4_73932_28525662	NC_021164.1	Ca_kabuli_chr05	28525662	TT	CC	1946850365
SNP_P4_73933_28525687	NC_021164.1	Ca_kabuli_chr05	28525687	TT	CC	1946850367
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SNP_P4_73936_28550564	NC_021164.1	Ca_kabuli_chr05	28550564	GG	AA	1946850373
SNP_P4_73937_28569378	NC_021164.1	Ca_kabuli_chr05	28569378	CC	TT	1946850374
SNP_P4_73938_28569962	NC_021164.1	Ca_kabuli_chr05	28569962	AA	CC	1946850376
SNP_P4_73939_28569993	NC_021164.1	Ca_kabuli_chr05	28569993	AA	GG	1946850378
SNP_P4_73940_28572382	NC_021164.1	Ca_kabuli_chr05	28572382	TT	CC	1946850380
SNP_P4_73941_28585610	NC_021164.1	Ca_kabuli_chr05	28585610	AA	TT	1946850382
SNP_P4_73942_28585966	NC_021164.1	Ca_kabuli_chr05	28585966	CC	TT	1946850384
SNP_P4_73944_28599225	NC_021164.1	Ca_kabuli_chr05	28599225	AA	TT	1946850386
SNP_P4_73945_28629586	NC_021164.1	Ca_kabuli_chr05	28629586	TT	CC	1946850388
SNP_P4_73946_28630501	NC_021164.1	Ca_kabuli_chr05	28630501	CC	TT	1946850390
SNP_P4_73947_28638658	NC_021164.1	Ca_kabuli_chr05	28638658	TT	CC	1946850392
SNP_P4_73948_28643246	NC_021164.1	Ca_kabuli_chr05	28643246	AA	GG	1946850393
SNP_P4_73949_28651625	NC_021164.1	Ca_kabuli_chr05	28651625	CC	GG	1946850395
SNP_P4_73950_28651650	NC_021164.1	Ca_kabuli_chr05	28651650	TT	CC	1946850397
SNP_P4_73951_28651663	NC_021164.1	Ca_kabuli_chr05	28651663	GG	AA	1946850399
SNP_P4_73952_28651676	NC_021164.1	Ca_kabuli_chr05	28651676	CC	AA	1946850401
SNP_P4_73953_28651680	NC_021164.1	Ca_kabuli_chr05	28651680	TT	GG	1946850403
SNP_P4_73954_28651724	NC_021164.1	Ca_kabuli_chr05	28651724	TT	CC	1946850405
SNP_P4_73955_28651771	NC_021164.1	Ca_kabuli_chr05	28651771	AA	GG	1946850406
SNP_P4_73956_28651916	NC_021164.1	Ca_kabuli_chr05	28651916	AA	TT	1946850408
SNP_P4_73957_28651992	NC_021164.1	Ca_kabuli_chr05	28651992	GG	TT	1946850410

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_73961_28740552	NC_021164.1	Ca_kabuli_chr05	28740552	CC	TT	1946850415
SNP_P4_73962_28744009	NC_021164.1	Ca_kabuli_chr05	28744009	CC	TT	1946850417
SNP_P4_73963_28751469	NC_021164.1	Ca_kabuli_chr05	28751469	AA	TT	1946850419
SNP_P4_73964_28751471	NC_021164.1	Ca_kabuli_chr05	28751471	AA	TT	1946850421
SNP_P4_73965_28766391	NC_021164.1	Ca_kabuli_chr05	28766391	GG	AA	1946850423
SNP_P4_73966_28767700	NC_021164.1	Ca_kabuli_chr05	28767700	TT	GG	1946850425
SNP_P4_73967_28795015	NC_021164.1	Ca_kabuli_chr05	28795015	GG	AA	1946850427
SNP_P4_73969_28850202	NC_021164.1	Ca_kabuli_chr05	28850202	AA	TT	1946850429
SNP_P4_73971_28862385	NC_021164.1	Ca_kabuli_chr05	28862385	CC	AA	1946850431
SNP_P4_73973_28945844	NC_021164.1	Ca_kabuli_chr05	28945844	TT	CC	1946850433
SNP_P4_73974_28949573	NC_021164.1	Ca_kabuli_chr05	28949573	GG	AA	1946850435
SNP_P4_73976_28977894	NC_021164.1	Ca_kabuli_chr05	28977894	TT	CC	1946850437
SNP_P4_73977_28999129	NC_021164.1	Ca_kabuli_chr05	28999129	GG	TT	1946850439
SNP_P4_73979_29007346	NC_021164.1	Ca_kabuli_chr05	29007346	GG	TT	1946850441
SNP_P4_73985_29166328	NC_021164.1	Ca_kabuli_chr05	29166328	GG	AA	1946850443
SNP_P4_73986_29187445	NC_021164.1	Ca_kabuli_chr05	29187445	AA	CC	1946850445
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SNP_P4_73990_29333305	NC_021164.1	Ca_kabuli_chr05	29333305	TT	AA	1946850453
SNP_P4_73992_29361455	NC_021164.1	Ca_kabuli_chr05	29361455	AA	CC	1946850455
SNP_P4_73996_29423069	NC_021164.1	Ca_kabuli_chr05	29423069	AA	GG	1946850457
SNP_P4_73997_29423070	NC_021164.1	Ca_kabuli_chr05	29423070	AA	TT	1946850459
SNP_P4_73998_29423303	NC_021164.1	Ca_kabuli_chr05	29423303	GG	AA	1946850461
SNP_P4_73999_29428189	NC_021164.1	Ca_kabuli_chr05	29428189	CC	GG	1946850463
SNP_P4_74000_29435247	NC_021164.1	Ca_kabuli_chr05	29435247	AA	GG	1946850465
SNP_P4_74001_29460824	NC_021164.1	Ca_kabuli_chr05	29460824	CC	GG	1946850467
SNP_P4_74003_29476543	NC_021164.1	Ca_kabuli_chr05	29476543	TT	AA	1946850469
SNP_P4_74004_29476544	NC_021164.1	Ca_kabuli_chr05	29476544	GG	CC	1946850471
SNP_P4_74005_29480541	NC_021164.1	Ca_kabuli_chr05	29480541	GG	CC	1946850473
SNP_P4_74006_29508793	NC_021164.1	Ca_kabuli_chr05	29508793	TT	CC	1946850475
SNP_P4_74007_29514470	NC_021164.1	Ca_kabuli_chr05	29514470	GG	TT	1946850477
SNP_P4_74008_29514479	NC_021164.1	Ca_kabuli_chr05	29514479	GG	CC	1946850479
SNP_P4_74010_29516246	NC_021164.1	Ca_kabuli_chr05	29516246	TT	GG	1946850480
SNP_P4_74011_29516249	NC_021164.1	Ca_kabuli_chr05	29516249	GG	CC	1946850483
SNP_P4_74012_29518833	NC_021164.1	Ca_kabuli_chr05	29518833	AA	GG	1946850485
SNP_P4_74013_29536189	NC_021164.1	Ca_kabuli_chr05	29536189	TT	CC	1946850487
SNP_P4_74014_29536303	NC_021164.1	Ca_kabuli_chr05	29536303	TT	CC	1946850489
SNP_P4_74015_29539133	NC_021164.1	Ca_kabuli_chr05	29539133	CC	AA	1946850491
SNP_P4_74016_29539677	NC_021164.1	Ca_kabuli_chr05	29539677	AA	CC	1946850493

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_74017_29539702	NC_021164.1	Ca_kabuli_chr05	29539702	GG	TT	1946850495
SNP_P4_74019_29626480	NC_021164.1	Ca_kabuli_chr05	29626480	AA	GG	1946850497
SNP_P4_74020_29631895	NC_021164.1	Ca_kabuli_chr05	29631895	TT	CC	1946850499
SNP_P4_74021_29635805	NC_021164.1	Ca_kabuli_chr05	29635805	AA	CC	1946850501
SNP_P4_74022_29636658	NC_021164.1	Ca_kabuli_chr05	29636658	AA	GG	1946850503
SNP_P4_74026_29667351	NC_021164.1	Ca_kabuli_chr05	29667351	TT	CC	1946850505
SNP_P4_74027_29675843	NC_021164.1	Ca_kabuli_chr05	29675843	AA	GG	1946850507
SNP_P4_74028_29675844	NC_021164.1	Ca_kabuli_chr05	29675844	AA	TT	1946850509
SNP_P4_74029_29676442	NC_021164.1	Ca_kabuli_chr05	29676442	TT	CC	1946850511
SNP_P4_74030_29676471	NC_021164.1	Ca_kabuli_chr05	29676471	CC	GG	1946850513
SNP_P4_74031_29704202	NC_021164.1	Ca_kabuli_chr05	29704202	AA	GG	1946850515
SNP_P4_74032_29715100	NC_021164.1	Ca_kabuli_chr05	29715100	TT	GG	1946850517
SNP_P4_74033_29715102	NC_021164.1	Ca_kabuli_chr05	29715102	AA	CC	1946850519
SNP_P4_74034_29717122	NC_021164.1	Ca_kabuli_chr05	29717122	CC	AA	1946850521
SNP_P4_74035_29721738	NC_021164.1	Ca_kabuli_chr05	29721738	CC	TT	1946850523
SNP_P4_74036_29724119	NC_021164.1	Ca_kabuli_chr05	29724119	CC	TT	1946850525
SNP_P4_74040_29739368	NC_021164.1	Ca_kabuli_chr05	29739368	TT	CC	1946850527
SNP_P4_74042_29759720	NC_021164.1	Ca_kabuli_chr05	29759720	TT	AA	1946850529
SNP_P4_74044_29778105	NC_021164.1	Ca_kabuli_chr05	29778105	GG	AA	1946850531
SNP_P4_74045_29778113	NC_021164.1	Ca_kabuli_chr05	29778113	CC	TT	1946850533
SNP_P4_74046_29778227	NC_021164.1	Ca_kabuli_chr05	29778227	AA	GG	1946850535
SNP_P4_74047_29838244	NC_021164.1	Ca_kabuli_chr05	29838244	GG	AA	1946850537
SNP_P4_74048_29841197	NC_021164.1	Ca_kabuli_chr05	29841197	AA	GG	1946850539
SNP_P4_74049_29856975	NC_021164.1	Ca_kabuli_chr05	29856975	CC	AA	1946850541
SNP_P4_74050_29858315	NC_021164.1	Ca_kabuli_chr05	29858315	CC	AA	1946850543
SNP_P4_74053_29859687	NC_021164.1	Ca_kabuli_chr05	29859687	TT	AA	1946850545
SNP_P4_74055_29911227	NC_021164.1	Ca_kabuli_chr05	29911227	GG	AA	1946850546
SNP_P4_74056_29917613	NC_021164.1	Ca_kabuli_chr05	29917613	CC	TT	1946850548
SNP_P4_74057_29917651	NC_021164.1	Ca_kabuli_chr05	29917651	TT	GG	1946850550
SNP_P4_74058_29917680	NC_021164.1	Ca_kabuli_chr05	29917680	TT	AA	1946850552
SNP_P4_74059_29919284	NC_021164.1	Ca_kabuli_chr05	29919284	GG	AA	1946850554
SNP_P4_74061_29920999	NC_021164.1	Ca_kabuli_chr05	29920999	AA	CC	1946850557
SNP_P4_74062_29921049	NC_021164.1	Ca_kabuli_chr05	29921049	CC	TT	1946850559
SNP_P4_74063_29921081	NC_021164.1	Ca_kabuli_chr05	29921081	AA	TT	1946850561
SNP_P4_74064_29921082	NC_021164.1	Ca_kabuli_chr05	29921082	AA	GG	1946850563
SNP_P4_74065_29932064	NC_021164.1	Ca_kabuli_chr05	29932064	TT	CC	1946850565
SNP_P4_74066_29932135	NC_021164.1	Ca_kabuli_chr05	29932135	GG	TT	1946850567
SNP_P4_74067_29932159	NC_021164.1	Ca_kabuli_chr05	29932159	CC	TT	1946850569
SNP_P4_74068_29932160	NC_021164.1	Ca_kabuli_chr05	29932160	CC	GG	1946850571
SNP_P4_74069_29932161	NC_021164.1	Ca_kabuli_chr05	29932161	TT	AA	1946850573
SNP_P4_74070_29932304	NC_021164.1	Ca_kabuli_chr05	29932304	TT	GG	1946850575
SNP_P4_74071_29932320	NC_021164.1	Ca_kabuli_chr05	29932320	GG	AA	1946850577

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_74073_29932355	NC_021164.1	Ca_kabuli_chr05	29932355	GG	AA	1946850581
SNP_P4_74074_29932374	NC_021164.1	Ca_kabuli_chr05	29932374	GG	AA	1946850583
SNP_P4_74075_29932515	NC_021164.1	Ca_kabuli_chr05	29932515	GG	AA	1946850585
SNP_P4_74076_29933084	NC_021164.1	Ca_kabuli_chr05	29933084	CC	GG	1946850587
SNP_P4_74078_29933992	NC_021164.1	Ca_kabuli_chr05	29933992	TT	CC	1946850590
SNP_P4_74079_29934615	NC_021164.1	Ca_kabuli_chr05	29934615	CC	TT	1946850592
SNP_P4_74080_29938073	NC_021164.1	Ca_kabuli_chr05	29938073	AA	TT	1946850594
SNP_P4_74081_29938136	NC_021164.1	Ca_kabuli_chr05	29938136	GG	AA	1946850596
SNP_P4_74084_29938497	NC_021164.1	Ca_kabuli_chr05	29938497	TT	GG	1946850598
SNP_P4_74085_29964303	NC_021164.1	Ca_kabuli_chr05	29964303	GG	AA	1946850600
SNP_P4_74086_29974791	NC_021164.1	Ca_kabuli_chr05	29974791	AA	GG	1946850602
SNP_P4_74087_29978279	NC_021164.1	Ca_kabuli_chr05	29978279	AA	GG	1946850604
SNP_P4_74088_29999161	NC_021164.1	Ca_kabuli_chr05	29999161	TT	CC	1946850606
SNP_P4_74089_30008557	NC_021164.1	Ca_kabuli_chr05	30008557	GG	AA	1946850608
SNP_P4_74090_30011657	NC_021164.1	Ca_kabuli_chr05	30011657	AA	TT	1946850610
SNP_P4_74091_30018549	NC_021164.1	Ca_kabuli_chr05	30018549	CC	TT	1946850612
SNP_P4_74092_30019097	NC_021164.1	Ca_kabuli_chr05	30019097	GG	AA	1946850614
SNP_P4_74093_30035410	NC_021164.1	Ca_kabuli_chr05	30035410	TT	CC	1946850616
SNP_P4_74094_30040605	NC_021164.1	Ca_kabuli_chr05	30040605	TT	AA	1946850618
SNP_P4_74095_30052812	NC_021164.1	Ca_kabuli_chr05	30052812	AA	TT	1946850620
SNP_P4_74096_30058024	NC_021164.1	Ca_kabuli_chr05	30058024	CC	TT	1946850622
SNP_P4_74097_30106400	NC_021164.1	Ca_kabuli_chr05	30106400	TT	GG	1946850624
SNP_P4_74098_30106660	NC_021164.1	Ca_kabuli_chr05	30106660	GG	AA	1946850626
SNP_P4_74099_30106730	NC_021164.1	Ca_kabuli_chr05	30106730	CC	AA	1946850628
SNP_P4_74100_30106871	NC_021164.1	Ca_kabuli_chr05	30106871	GG	CC	1946850630
SNP_P4_74102_30107037	NC_021164.1	Ca_kabuli_chr05	30107037	GG	AA	1946850632
SNP_P4_74103_30107041	NC_021164.1	Ca_kabuli_chr05	30107041	CC	TT	1946850634
SNP_P4_74104_30107049	NC_021164.1	Ca_kabuli_chr05	30107049	TT	CC	1946850636
SNP_P4_74105_30107160	NC_021164.1	Ca_kabuli_chr05	30107160	GG	AA	1946850638
SNP_P4_74106_30107213	NC_021164.1	Ca_kabuli_chr05	30107213	TT	CC	1946850640
SNP_P4_74107_30107279	NC_021164.1	Ca_kabuli_chr05	30107279	AA	GG	1946850642
SNP_P4_74108_30107307	NC_021164.1	Ca_kabuli_chr05	30107307	TT	AA	1946850644
SNP_P4_74109_30107315	NC_021164.1	Ca_kabuli_chr05	30107315	CC	TT	1946850646
SNP_P4_74110_30107550	NC_021164.1	Ca_kabuli_chr05	30107550	TT	CC	1946850648
SNP_P4_74111_30107576	NC_021164.1	Ca_kabuli_chr05	30107576	AA	CC	1946850650
SNP_P4_74112_30108506	NC_021164.1	Ca_kabuli_chr05	30108506	GG	CC	1946850652
SNP_P4_74113_30108652	NC_021164.1	Ca_kabuli_chr05	30108652	TT	GG	1946850654
SNP_P4_74114_30108819	NC_021164.1	Ca_kabuli_chr05	30108819	CC	GG	1946850656
SNP_P4_74115_30108824	NC_021164.1	Ca_kabuli_chr05	30108824	CC	GG	1946850658
SNP_P4_74116_30108829	NC_021164.1	Ca_kabuli_chr05	30108829	CC	TT	1946850660
SNP_P4_74117_30108842	NC_021164.1	Ca_kabuli_chr05	30108842	AA	GG	1946850662

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_74119_30109034	NC_021164.1	Ca_kabuli_chr05	30109034	TT	CC	1946850666
SNP_P4_74120_30109040	NC_021164.1	Ca_kabuli_chr05	30109040	TT	CC	1946850668
SNP_P4_74121_30109116	NC_021164.1	Ca_kabuli_chr05	30109116	TT	AA	1946850670
SNP_P4_74122_30109197	NC_021164.1	Ca_kabuli_chr05	30109197	GG	AA	1946850672
SNP_P4_74123_30109266	NC_021164.1	Ca_kabuli_chr05	30109266	AA	GG	1946850674
SNP_P4_74124_30109382	NC_021164.1	Ca_kabuli_chr05	30109382	TT	CC	1946850676
SNP_P4_74125_30112270	NC_021164.1	Ca_kabuli_chr05	30112270	CC	TT	1946850678
SNP_P4_74127_30114946	NC_021164.1	Ca_kabuli_chr05	30114946	GG	AA	1946850680
SNP_P4_74128_30114971	NC_021164.1	Ca_kabuli_chr05	30114971	AA	TT	1946850682
SNP_P4_74129_30119135	NC_021164.1	Ca_kabuli_chr05	30119135	CC	TT	1946850684
SNP_P4_74130_30119743	NC_021164.1	Ca_kabuli_chr05	30119743	TT	GG	1946850686
SNP_P4_74131_30119775	NC_021164.1	Ca_kabuli_chr05	30119775	TT	CC	1946850688
SNP_P4_74132_30120257	NC_021164.1	Ca_kabuli_chr05	30120257	AA	GG	1946850690
SNP_P4_74133_30120264	NC_021164.1	Ca_kabuli_chr05	30120264	GG	AA	1946850692
SNP_P4_74135_30121304	NC_021164.1	Ca_kabuli_chr05	30121304	CC	AA	1946850694
SNP_P4_74137_30123179	NC_021164.1	Ca_kabuli_chr05	30123179	AA	TT	1946850696
SNP_P4_74138_30123327	NC_021164.1	Ca_kabuli_chr05	30123327	CC	TT	1946850698
SNP_P4_74139_30123407	NC_021164.1	Ca_kabuli_chr05	30123407	GG	CC	1946850700
SNP_P4_74140_30123675	NC_021164.1	Ca_kabuli_chr05	30123675	GG	CC	1946850702
SNP_P4_74141_30123687	NC_021164.1	Ca_kabuli_chr05	30123687	CC	AA	1946850704
SNP_P4_74142_30124086	NC_021164.1	Ca_kabuli_chr05	30124086	GG	CC	1946850706
SNP_P4_74143_30125552	NC_021164.1	Ca_kabuli_chr05	30125552	AA	TT	1946850708
SNP_P4_74145_30127094	NC_021164.1	Ca_kabuli_chr05	30127094	TT	AA	1946850710
SNP_P4_74146_30127852	NC_021164.1	Ca_kabuli_chr05	30127852	CC	TT	1946850712
SNP_P4_74147_30128630	NC_021164.1	Ca_kabuli_chr05	30128630	GG	TT	1946850714
SNP_P4_74148_30128762	NC_021164.1	Ca_kabuli_chr05	30128762	CC	TT	1946850716
SNP_P4_74150_30129022	NC_021164.1	Ca_kabuli_chr05	30129022	AA	TT	1946850718
SNP_P4_74151_30129094	NC_021164.1	Ca_kabuli_chr05	30129094	CC	TT	1946850721
SNP_P4_74153_30131107	NC_021164.1	Ca_kabuli_chr05	30131107	TT	GG	1946850723
SNP_P4_74154_30132470	NC_021164.1	Ca_kabuli_chr05	30132470	TT	CC	1946850725
SNP_P4_74155_30136055	NC_021164.1	Ca_kabuli_chr05	30136055	CC	TT	1946850727
SNP_P4_74156_30138508	NC_021164.1	Ca_kabuli_chr05	30138508	TT	AA	1946850730
SNP_P4_74157_30147290	NC_021164.1	Ca_kabuli_chr05	30147290	TT	GG	1946850732
SNP_P4_74158_30195906	NC_021164.1	Ca_kabuli_chr05	30195906	TT	CC	1946850734
SNP_P4_74159_30227140	NC_021164.1	Ca_kabuli_chr05	30227140	CC	TT	1946850736
SNP_P4_74160_30227400	NC_021164.1	Ca_kabuli_chr05	30227400	GG	AA	1946850738
SNP_P4_74161_30234403	NC_021164.1	Ca_kabuli_chr05	30234403	AA	TT	1946850740
SNP_P4_74162_30279788	NC_021164.1	Ca_kabuli_chr05	30279788	AA	GG	1946850742
SNP_P4_74164_30322938	NC_021164.1	Ca_kabuli_chr05	30322938	TT	AA	1946850744
SNP_P4_74166_30396252	NC_021164.1	Ca_kabuli_chr05	30396252	AA	TT	1946850747
SNP_P4_74167_30396366	NC_021164.1	Ca_kabuli_chr05	30396366	TT	CC	1946850749

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_74169_30396495	NC_021164.1	Ca_kabuli_chr05	30396495	AA	GG	1946850753
SNP_P4_74170_30396633	NC_021164.1	Ca_kabuli_chr05	30396633	AA	GG	1946850755
SNP_P4_74171_30396786	NC_021164.1	Ca_kabuli_chr05	30396786	TT	GG	1946850757
SNP_P4_74172_30396821	NC_021164.1	Ca_kabuli_chr05	30396821	AA	TT	1946850759
SNP_P4_74173_30398522	NC_021164.1	Ca_kabuli_chr05	30398522	AA	TT	1946850761
SNP_P4_74174_30431522	NC_021164.1	Ca_kabuli_chr05	30431522	GG	AA	1946850763
SNP_P4_74175_30440174	NC_021164.1	Ca_kabuli_chr05	30440174	AA	GG	1946850765
SNP_P4_74176_30445297	NC_021164.1	Ca_kabuli_chr05	30445297	CC	TT	1946850767
SNP_P4_74177_30458215	NC_021164.1	Ca_kabuli_chr05	30458215	TT	CC	1946850769
SNP_P4_74178_30480146	NC_021164.1	Ca_kabuli_chr05	30480146	TT	CC	1946850771
SNP_P4_74179_30487887	NC_021164.1	Ca_kabuli_chr05	30487887	CC	TT	1946850773
SNP_P4_74180_30487938	NC_021164.1	Ca_kabuli_chr05	30487938	AA	TT	1946850775
SNP_P4_74181_30488163	NC_021164.1	Ca_kabuli_chr05	30488163	CC	TT	1946850777
SNP_P4_74182_30488178	NC_021164.1	Ca_kabuli_chr05	30488178	AA	GG	1946850779
SNP_P4_74183_30488185	NC_021164.1	Ca_kabuli_chr05	30488185	TT	CC	1946850781
SNP_P4_74184_30488268	NC_021164.1	Ca_kabuli_chr05	30488268	CC	TT	1946850783
SNP_P4_74185_30488280	NC_021164.1	Ca_kabuli_chr05	30488280	AA	GG	1946850785
SNP_P4_74186_30540100	NC_021164.1	Ca_kabuli_chr05	30540100	AA	TT	1946850787
SNP_P4_74187_30542079	NC_021164.1	Ca_kabuli_chr05	30542079	TT	CC	1946850789
SNP_P4_74188_30543001	NC_021164.1	Ca_kabuli_chr05	30543001	GG	AA	1946850791
SNP_P4_74189_30547556	NC_021164.1	Ca_kabuli_chr05	30547556	AA	TT	1946850793
SNP_P4_74190_30547557	NC_021164.1	Ca_kabuli_chr05	30547557	CC	TT	1946850795
SNP_P4_74192_30570443	NC_021164.1	Ca_kabuli_chr05	30570443	CC	TT	1946850797
SNP_P4_74193_30581344	NC_021164.1	Ca_kabuli_chr05	30581344	TT	CC	1946850799
SNP_P4_74194_30584240	NC_021164.1	Ca_kabuli_chr05	30584240	TT	CC	1946850801
SNP_P4_74195_30589828	NC_021164.1	Ca_kabuli_chr05	30589828	AA	TT	1946850803
SNP_P4_74196_30590531	NC_021164.1	Ca_kabuli_chr05	30590531	CC	GG	1946850805
SNP_P4_74197_30609683	NC_021164.1	Ca_kabuli_chr05	30609683	AA	TT	1946850807
SNP_P4_74198_30609687	NC_021164.1	Ca_kabuli_chr05	30609687	TT	GG	1946850809
SNP_P4_74199_30609808	NC_021164.1	Ca_kabuli_chr05	30609808	GG	AA	1946850811
SNP_P4_74200_30612404	NC_021164.1	Ca_kabuli_chr05	30612404	GG	AA	1946850813
SNP_P4_74203_30619976	NC_021164.1	Ca_kabuli_chr05	30619976	GG	AA	1946850815
SNP_P4_74204_30621409	NC_021164.1	Ca_kabuli_chr05	30621409	CC	TT	1946850817
SNP_P4_74205_30623658	NC_021164.1	Ca_kabuli_chr05	30623658	AA	GG	1946850819
SNP_P4_74206_30623659	NC_021164.1	Ca_kabuli_chr05	30623659	AA	TT	1946850821
SNP_P4_74207_30641839	NC_021164.1	Ca_kabuli_chr05	30641839	TT	CC	1946850823
SNP_P4_74208_30643231	NC_021164.1	Ca_kabuli_chr05	30643231	TT	GG	1946850825
SNP_P4_74209_30668275	NC_021164.1	Ca_kabuli_chr05	30668275	CC	TT	1946850827
SNP_P4_74210_30669337	NC_021164.1	Ca_kabuli_chr05	30669337	CC	TT	1946850829
SNP_P4_74211_30669343	NC_021164.1	Ca_kabuli_chr05	30669343	CC	TT	1946850831
SNP_P4_74212_30672490	NC_021164.1	Ca_kabuli_chr05	30672490	TT	AA	1946850833

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_74214_30684188	NC_021164.1	Ca_kabuli_chr05	30684188	AA	GG	1946850837
SNP_P4_74215_30684876	NC_021164.1	Ca_kabuli_chr05	30684876	TT	CC	1946850839
SNP_P4_74216_30710575	NC_021164.1	Ca_kabuli_chr05	30710575	GG	AA	1946850841
SNP_P4_74218_30731086	NC_021164.1	Ca_kabuli_chr05	30731086	AA	TT	1946850843
SNP_P4_74219_30731087	NC_021164.1	Ca_kabuli_chr05	30731087	AA	TT	1946850845
SNP_P4_74220_30731120	NC_021164.1	Ca_kabuli_chr05	30731120	AA	TT	1946850846
SNP_P4_74221_30738220	NC_021164.1	Ca_kabuli_chr05	30738220	GG	TT	1946850848
SNP_P4_74222_30773870	NC_021164.1	Ca_kabuli_chr05	30773870	CC	TT	1946850850
SNP_P4_74223_30774235	NC_021164.1	Ca_kabuli_chr05	30774235	CC	AA	1946850852
SNP_P4_74224_30777285	NC_021164.1	Ca_kabuli_chr05	30777285	AA	GG	1946850854
SNP_P4_74225_30777582	NC_021164.1	Ca_kabuli_chr05	30777582	GG	AA	1946850856
SNP_P4_74226_30818525	NC_021164.1	Ca_kabuli_chr05	30818525	AA	CC	1946850858
SNP_P4_74227_30827707	NC_021164.1	Ca_kabuli_chr05	30827707	CC	AA	1946850860
SNP_P4_74228_30837244	NC_021164.1	Ca_kabuli_chr05	30837244	TT	CC	1946850862
SNP_P4_74229_30837453	NC_021164.1	Ca_kabuli_chr05	30837453	GG	TT	1946850864
SNP_P4_74230_30839071	NC_021164.1	Ca_kabuli_chr05	30839071	GG	AA	1946850866
SNP_P4_74231_30839135	NC_021164.1	Ca_kabuli_chr05	30839135	TT	CC	1946850868
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SNP_P4_74233_30904770	NC_021164.1	Ca_kabuli_chr05	30904770	AA	GG	1946850872
SNP_P4_74234_30912408	NC_021164.1	Ca_kabuli_chr05	30912408	CC	TT	1946850874
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SNP_P4_74236_30915418	NC_021164.1	Ca_kabuli_chr05	30915418	TT	CC	1946850878
SNP_P4_74237_30915446	NC_021164.1	Ca_kabuli_chr05	30915446	AA	TT	1946850880
SNP_P4_74239_30917890	NC_021164.1	Ca_kabuli_chr05	30917890	CC	TT	1946850882
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SNP_P4_74245_31029900	NC_021164.1	Ca_kabuli_chr05	31029900	TT	CC	1946850892
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SNP_P4_74247_31044565	NC_021164.1	Ca_kabuli_chr05	31044565	CC	TT	1946850896
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SNP_P4_74251_31084489	NC_021164.1	Ca_kabuli_chr05	31084489	CC	TT	1946850900
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SNP_P4_74254_31129973	NC_021164.1	Ca_kabuli_chr05	31129973	TT	AA	1946850904
SNP_P4_74255_31129979	NC_021164.1	Ca_kabuli_chr05	31129979	AA	GG	1946850906
SNP_P4_74256_31130014	NC_021164.1	Ca_kabuli_chr05	31130014	AA	TT	1946850908
SNP_P4_74257_31130886	NC_021164.1	Ca_kabuli_chr05	31130886	TT	CC	1946850910
SNP_P4_74258_31131001	NC_021164.1	Ca_kabuli_chr05	31131001	TT	GG	1946850912
SNP_P4_74259_31131066	NC_021164.1	Ca_kabuli_chr05	31131066	TT	AA	1946850914
SNP_P4_74260_31131237	NC_021164.1	Ca_kabuli_chr05	31131237	TT	AA	1946850916

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_74263_31132379	NC_021164.1	Ca_kabuli_chr05	31132379	TT	AA	1946850922
SNP_P4_74264_31133718	NC_021164.1	Ca_kabuli_chr05	31133718	GG	AA	1946850924
SNP_P4_74265_31133737	NC_021164.1	Ca_kabuli_chr05	31133737	AA	GG	1946850926
SNP_P4_74266_31133739	NC_021164.1	Ca_kabuli_chr05	31133739	TT	AA	1946850928
SNP_P4_74267_31133740	NC_021164.1	Ca_kabuli_chr05	31133740	TT	GG	1946850930
SNP_P4_74269_31135633	NC_021164.1	Ca_kabuli_chr05	31135633	GG	AA	1946850932
SNP_P4_74272_31144603	NC_021164.1	Ca_kabuli_chr05	31144603	TT	AA	1946850934
SNP_P4_74273_31144606	NC_021164.1	Ca_kabuli_chr05	31144606	CC	AA	1946850936
SNP_P4_74274_31144805	NC_021164.1	Ca_kabuli_chr05	31144805	CC	TT	1946850938
SNP_P4_74275_31144916	NC_021164.1	Ca_kabuli_chr05	31144916	AA	GG	1946850940
SNP_P4_74276_31144994	NC_021164.1	Ca_kabuli_chr05	31144994	TT	CC	1946850942
SNP_P4_74277_31146847	NC_021164.1	Ca_kabuli_chr05	31146847	CC	GG	1946850944
SNP_P4_74278_31146854	NC_021164.1	Ca_kabuli_chr05	31146854	AA	GG	1946850946
SNP_P4_74280_31147733	NC_021164.1	Ca_kabuli_chr05	31147733	AA	TT	1946850948
SNP_P4_74281_31149462	NC_021164.1	Ca_kabuli_chr05	31149462	TT	AA	1946850950
SNP_P4_74282_31153276	NC_021164.1	Ca_kabuli_chr05	31153276	GG	AA	1946850952
SNP_P4_74283_31153608	NC_021164.1	Ca_kabuli_chr05	31153608	AA	GG	1946850954
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SNP_P4_74285_31153770	NC_021164.1	Ca_kabuli_chr05	31153770	TT	CC	1946850958
SNP_P4_74286_31153781	NC_021164.1	Ca_kabuli_chr05	31153781	GG	AA	1946850960
SNP_P4_74287_31153809	NC_021164.1	Ca_kabuli_chr05	31153809	AA	TT	1946850962
SNP_P4_74289_31153958	NC_021164.1	Ca_kabuli_chr05	31153958	AA	GG	1946850964
SNP_P4_74290_31154082	NC_021164.1	Ca_kabuli_chr05	31154082	GG	TT	1946850966
SNP_P4_74291_31154110	NC_021164.1	Ca_kabuli_chr05	31154110	CC	GG	1946850968
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SNP_P4_74294_31154270	NC_021164.1	Ca_kabuli_chr05	31154270	GG	AA	1946850972
SNP_P4_74295_31154284	NC_021164.1	Ca_kabuli_chr05	31154284	AA	CC	1946850974
SNP_P4_74296_31154288	NC_021164.1	Ca_kabuli_chr05	31154288	GG	AA	1946850976
SNP_P4_74297_31154422	NC_021164.1	Ca_kabuli_chr05	31154422	AA	GG	1946850978
SNP_P4_74298_31154635	NC_021164.1	Ca_kabuli_chr05	31154635	TT	GG	1946850980
SNP_P4_74300_31155316	NC_021164.1	Ca_kabuli_chr05	31155316	GG	AA	1946850982
SNP_P4_74301_31156842	NC_021164.1	Ca_kabuli_chr05	31156842	AA	GG	1946850984
SNP_P4_74302_31157370	NC_021164.1	Ca_kabuli_chr05	31157370	AA	GG	1946850986
SNP_P4_74303_31157420	NC_021164.1	Ca_kabuli_chr05	31157420	GG	CC	1946850988
SNP_P4_74304_31158582	NC_021164.1	Ca_kabuli_chr05	31158582	GG	AA	1946850990
SNP_P4_74305_31160820	NC_021164.1	Ca_kabuli_chr05	31160820	CC	GG	1946850992
SNP_P4_74306_31161085	NC_021164.1	Ca_kabuli_chr05	31161085	AA	GG	1946850994
SNP_P4_74308_31163338	NC_021164.1	Ca_kabuli_chr05	31163338	TT	CC	1946850996
SNP_P4_74309_31163431	NC_021164.1	Ca_kabuli_chr05	31163431	GG	AA	1946850998
SNP_P4_74310_31163437	NC_021164.1	Ca_kabuli_chr05	31163437	CC	GG	1946851000

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_74314_31166862	NC_021164.1	Ca_kabuli_chr05	31166862	CC	TT	1946851006
SNP_P4_74315_31168151	NC_021164.1	Ca_kabuli_chr05	31168151	AA	GG	1946851008
SNP_P4_74316_31168202	NC_021164.1	Ca_kabuli_chr05	31168202	GG	TT	1946851010
SNP_P4_74317_31168221	NC_021164.1	Ca_kabuli_chr05	31168221	CC	TT	1946851012
SNP_P4_74318_31174783	NC_021164.1	Ca_kabuli_chr05	31174783	GG	AA	1946851014
SNP_P4_74319_31175436	NC_021164.1	Ca_kabuli_chr05	31175436	TT	CC	1946851016
SNP_P4_74320_31179582	NC_021164.1	Ca_kabuli_chr05	31179582	TT	CC	1946851018
SNP_P4_74321_31181676	NC_021164.1	Ca_kabuli_chr05	31181676	CC	TT	1946851020
SNP_P4_74322_31181716	NC_021164.1	Ca_kabuli_chr05	31181716	CC	GG	1946851022
SNP_P4_74323_31182861	NC_021164.1	Ca_kabuli_chr05	31182861	CC	AA	1946851024
SNP_P4_74325_31183146	NC_021164.1	Ca_kabuli_chr05	31183146	CC	TT	1946851026
SNP_P4_74326_31183153	NC_021164.1	Ca_kabuli_chr05	31183153	CC	AA	1946851028
SNP_P4_74327_31183231	NC_021164.1	Ca_kabuli_chr05	31183231	TT	CC	1946851030
SNP_P4_74328_31183243	NC_021164.1	Ca_kabuli_chr05	31183243	AA	TT	1946851032
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SNP_P4_74334_31185136	NC_021164.1	Ca_kabuli_chr05	31185136	AA	CC	1946851044
SNP_P4_74335_31186998	NC_021164.1	Ca_kabuli_chr05	31186998	AA	GG	1946851046
SNP_P4_74337_31187062	NC_021164.1	Ca_kabuli_chr05	31187062	GG	AA	1946851048
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SNP_P4_74340_31187208	NC_021164.1	Ca_kabuli_chr05	31187208	GG	AA	1946851054
SNP_P4_74341_31187755	NC_021164.1	Ca_kabuli_chr05	31187755	AA	GG	1946851056
SNP_P4_74342_31187801	NC_021164.1	Ca_kabuli_chr05	31187801	AA	CC	1946851058
SNP_P4_74344_31188036	NC_021164.1	Ca_kabuli_chr05	31188036	GG	CC	1946851060
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SNP_P4_74346_31188964	NC_021164.1	Ca_kabuli_chr05	31188964	CC	TT	1946851064
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SNP_P4_74349_31212093	NC_021164.1	Ca_kabuli_chr05	31212093	AA	GG	1946851069
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SNP_P4_74356_31318463	NC_021164.1	Ca_kabuli_chr05	31318463	CC	TT	1946851077
SNP_P4_74357_31318990	NC_021164.1	Ca_kabuli_chr05	31318990	CC	AA	1946851079
SNP_P4_74360_31392222	NC_021164.1	Ca_kabuli_chr05	31392222	GG	AA	1946851081
SNP_P4_74361_31392433	NC_021164.1	Ca_kabuli_chr05	31392433	GG	TT	1946851083

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_74365_31454357	NC_021164.1	Ca_kabuli_chr05	31454357	GG	AA	1946851089
SNP_P4_74366_31454366	NC_021164.1	Ca_kabuli_chr05	31454366	GG	AA	1946851091
SNP_P4_74367_31454742	NC_021164.1	Ca_kabuli_chr05	31454742	AA	CC	1946851093
SNP_P4_74368_31454744	NC_021164.1	Ca_kabuli_chr05	31454744	CC	GG	1946851095
SNP_P4_74369_31507836	NC_021164.1	Ca_kabuli_chr05	31507836	CC	TT	1946851097
SNP_P4_74371_31535354	NC_021164.1	Ca_kabuli_chr05	31535354	TT	AA	1946851099
SNP_P4_74372_31535643	NC_021164.1	Ca_kabuli_chr05	31535643	CC	TT	1946851101
SNP_P4_74373_31538205	NC_021164.1	Ca_kabuli_chr05	31538205	TT	AA	1946851103
SNP_P4_74374_31543534	NC_021164.1	Ca_kabuli_chr05	31543534	AA	TT	1946851105
SNP_P4_74375_31543538	NC_021164.1	Ca_kabuli_chr05	31543538	AA	TT	1946851107
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SNP_P4_74380_31643263	NC_021164.1	Ca_kabuli_chr05	31643263	AA	GG	1946851113
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SNP_P4_74383_31686725	NC_021164.1	Ca_kabuli_chr05	31686725	GG	AA	1946851117
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SNP_P4_74401_31807512	NC_021164.1	Ca_kabuli_chr05	31807512	CC	GG	1946851145
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SNP_P4_74410_31861858	NC_021164.1	Ca_kabuli_chr05	31861858	CC	AA	1946851153
SNP_P4_74411_31905420	NC_021164.1	Ca_kabuli_chr05	31905420	TT	GG	1946851155
SNP_P4_74412_31905422	NC_021164.1	Ca_kabuli_chr05	31905422	TT	AA	1946851157
SNP_P4_74414_31941411	NC_021164.1	Ca_kabuli_chr05	31941411	AA	TT	1946851159
SNP_P4_74415_31943052	NC_021164.1	Ca_kabuli_chr05	31943052	GG	AA	1946851161
SNP_P4_74418_31961787	NC_021164.1	Ca_kabuli_chr05	31961787	AA	TT	1946851163
SNP_P4_74420_32034978	NC_021164.1	Ca_kabuli_chr05	32034978	CC	AA	1946851166
SNP_P4_74421_32034987	NC_021164.1	Ca_kabuli_chr05	32034987	TT	GG	1946851168

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_74423_32065972	NC_021164.1	Ca_kabuli_chr05	32065972	AA	CC	1946851172
SNP_P4_74424_32081544	NC_021164.1	Ca_kabuli_chr05	32081544	GG	AA	1946851174
SNP_P4_74425_32089818	NC_021164.1	Ca_kabuli_chr05	32089818	AA	TT	1946851176
SNP_P4_74427_32121088	NC_021164.1	Ca_kabuli_chr05	32121088	GG	AA	1946851178
SNP_P4_74428_32121176	NC_021164.1	Ca_kabuli_chr05	32121176	GG	CC	1946851180
SNP_P4_74429_32122292	NC_021164.1	Ca_kabuli_chr05	32122292	GG	CC	1946851182
SNP_P4_74430_32122474	NC_021164.1	Ca_kabuli_chr05	32122474	CC	TT	1946851184
SNP_P4_74431_32122723	NC_021164.1	Ca_kabuli_chr05	32122723	TT	CC	1946851186
SNP_P4_74432_32122829	NC_021164.1	Ca_kabuli_chr05	32122829	AA	CC	1946851188
SNP_P4_74433_32123010	NC_021164.1	Ca_kabuli_chr05	32123010	TT	AA	1946851190
SNP_P4_74434_32123127	NC_021164.1	Ca_kabuli_chr05	32123127	AA	TT	1946851192
SNP_P4_74435_32123568	NC_021164.1	Ca_kabuli_chr05	32123568	GG	TT	1946851194
SNP_P4_74436_32123569	NC_021164.1	Ca_kabuli_chr05	32123569	AA	GG	1946851196
SNP_P4_74437_32137331	NC_021164.1	Ca_kabuli_chr05	32137331	AA	GG	1946851198
SNP_P4_74438_32137370	NC_021164.1	Ca_kabuli_chr05	32137370	GG	CC	1946851200
SNP_P4_74439_32137589	NC_021164.1	Ca_kabuli_chr05	32137589	AA	GG	1946851202
SNP_P4_74440_32138539	NC_021164.1	Ca_kabuli_chr05	32138539	AA	TT	1946851204
SNP_P4_74442_32140117	NC_021164.1	Ca_kabuli_chr05	32140117	TT	AA	1946851206
SNP_P4_74443_32160960	NC_021164.1	Ca_kabuli_chr05	32160960	AA	TT	1946851208
SNP_P4_74445_32239799	NC_021164.1	Ca_kabuli_chr05	32239799	TT	AA	1946851210
SNP_P4_74446_32239800	NC_021164.1	Ca_kabuli_chr05	32239800	TT	AA	1946851212
SNP_P4_74447_32244650	NC_021164.1	Ca_kabuli_chr05	32244650	AA	GG	1946851214
SNP_P4_74448_32244685	NC_021164.1	Ca_kabuli_chr05	32244685	AA	TT	1946851216
SNP_P4_74449_32244689	NC_021164.1	Ca_kabuli_chr05	32244689	AA	CC	1946851218
SNP_P4_74450_32248470	NC_021164.1	Ca_kabuli_chr05	32248470	AA	CC	1946851220
SNP_P4_74451_32248485	NC_021164.1	Ca_kabuli_chr05	32248485	TT	CC	1946851222
SNP_P4_74452_32248502	NC_021164.1	Ca_kabuli_chr05	32248502	GG	AA	1946851224
SNP_P4_74453_32248627	NC_021164.1	Ca_kabuli_chr05	32248627	GG	TT	1946851226
SNP_P4_74454_32258201	NC_021164.1	Ca_kabuli_chr05	32258201	CC	TT	1946851228
SNP_P4_74455_32258212	NC_021164.1	Ca_kabuli_chr05	32258212	AA	GG	1946851230
SNP_P4_74456_32259464	NC_021164.1	Ca_kabuli_chr05	32259464	GG	AA	1946851232
SNP_P4_74457_32261109	NC_021164.1	Ca_kabuli_chr05	32261109	GG	TT	1946851234
SNP_P4_74458_32270313	NC_021164.1	Ca_kabuli_chr05	32270313	CC	TT	1946851236
SNP_P4_74460_32292902	NC_021164.1	Ca_kabuli_chr05	32292902	GG	AA	1946851238
SNP_P4_74461_32293209	NC_021164.1	Ca_kabuli_chr05	32293209	GG	TT	1946851240
SNP_P4_74462_32293210	NC_021164.1	Ca_kabuli_chr05	32293210	GG	AA	1946851242
SNP_P4_74464_32302701	NC_021164.1	Ca_kabuli_chr05	32302701	GG	TT	1946851243
SNP_P4_74467_32378560	NC_021164.1	Ca_kabuli_chr05	32378560	AA	GG	1946851245
SNP_P4_74468_32385541	NC_021164.1	Ca_kabuli_chr05	32385541	GG	TT	1946851247
SNP_P4_74470_32395519	NC_021164.1	Ca_kabuli_chr05	32395519	TT	CC	1946851249
SNP_P4_74472_32397838	NC_021164.1	Ca_kabuli_chr05	32397838	TT	CC	1946851251

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_74474_32411331	NC_021164.1	Ca_kabuli_chr05	32411331	GG	TT	1946851255
SNP_P4_74475_32411332	NC_021164.1	Ca_kabuli_chr05	32411332	GG	TT	1946851257
SNP_P4_74476_32448226	NC_021164.1	Ca_kabuli_chr05	32448226	TT	GG	1946851259
SNP_P4_74478_32505424	NC_021164.1	Ca_kabuli_chr05	32505424	CC	TT	1946851261
SNP_P4_74480_32544459	NC_021164.1	Ca_kabuli_chr05	32544459	GG	AA	1946851263
SNP_P4_74482_32600970	NC_021164.1	Ca_kabuli_chr05	32600970	CC	GG	1946851265
SNP_P4_74484_32608864	NC_021164.1	Ca_kabuli_chr05	32608864	CC	TT	1946851267
SNP_P4_74487_32651929	NC_021164.1	Ca_kabuli_chr05	32651929	AA	CC	1946851269
SNP_P4_74488_32652222	NC_021164.1	Ca_kabuli_chr05	32652222	AA	GG	1946851271
SNP_P4_74489_32664231	NC_021164.1	Ca_kabuli_chr05	32664231	CC	TT	1946851273
SNP_P4_74490_32707094	NC_021164.1	Ca_kabuli_chr05	32707094	TT	AA	1946851275
SNP_P4_74491_32709727	NC_021164.1	Ca_kabuli_chr05	32709727	TT	AA	1946851277
SNP_P4_74492_32735771	NC_021164.1	Ca_kabuli_chr05	32735771	TT	CC	1946851279
SNP_P4_74495_32745696	NC_021164.1	Ca_kabuli_chr05	32745696	GG	AA	1946851281
SNP_P4_74497_32747737	NC_021164.1	Ca_kabuli_chr05	32747737	GG	TT	1946851283
SNP_P4_74498_32764330	NC_021164.1	Ca_kabuli_chr05	32764330	GG	CC	1946851285
SNP_P4_74501_32771729	NC_021164.1	Ca_kabuli_chr05	32771729	CC	TT	1946851287
SNP_P4_74503_32786872	NC_021164.1	Ca_kabuli_chr05	32786872	CC	TT	1946851289
SNP_P4_74504_32812067	NC_021164.1	Ca_kabuli_chr05	32812067	AA	TT	1946851291
SNP_P4_74508_32882585	NC_021164.1	Ca_kabuli_chr05	32882585	TT	CC	1946851293
SNP_P4_74510_32919776	NC_021164.1	Ca_kabuli_chr05	32919776	AA	GG	1946851295
SNP_P4_74512_32952924	NC_021164.1	Ca_kabuli_chr05	32952924	TT	GG	1946851297
SNP_P4_74513_32962877	NC_021164.1	Ca_kabuli_chr05	32962877	AA	GG	1946851299
SNP_P4_74514_32988632	NC_021164.1	Ca_kabuli_chr05	32988632	CC	TT	1946851301
SNP_P4_74515_32988633	NC_021164.1	Ca_kabuli_chr05	32988633	TT	CC	1946851303
SNP_P4_74516_32988636	NC_021164.1	Ca_kabuli_chr05	32988636	AA	GG	1946851305
SNP_P4_74517_33009048	NC_021164.1	Ca_kabuli_chr05	33009048	CC	TT	1946851307
SNP_P4_74519_33069404	NC_021164.1	Ca_kabuli_chr05	33069404	AA	GG	1946851309
SNP_P4_74520_33069406	NC_021164.1	Ca_kabuli_chr05	33069406	TT	AA	1946851311
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SNP_P4_74522_33087589	NC_021164.1	Ca_kabuli_chr05	33087589	GG	AA	1946851315
SNP_P4_74523_33087604	NC_021164.1	Ca_kabuli_chr05	33087604	TT	CC	1946851317
SNP_P4_74524_33087711	NC_021164.1	Ca_kabuli_chr05	33087711	AA	GG	1946851320
SNP_P4_74525_33088076	NC_021164.1	Ca_kabuli_chr05	33088076	GG	AA	1946851322
SNP_P4_74526_33088090	NC_021164.1	Ca_kabuli_chr05	33088090	GG	AA	1946851324
SNP_P4_74527_33088099	NC_021164.1	Ca_kabuli_chr05	33088099	AA	GG	1946851326
SNP_P4_74528_33091001	NC_021164.1	Ca_kabuli_chr05	33091001	TT	GG	1946851328
SNP_P4_74529_33091002	NC_021164.1	Ca_kabuli_chr05	33091002	AA	TT	1946851330
SNP_P4_74530_33094509	NC_021164.1	Ca_kabuli_chr05	33094509	TT	AA	1946851332
SNP_P4_74531_33094861	NC_021164.1	Ca_kabuli_chr05	33094861	GG	AA	1946851334
SNP_P4_74532_33099246	NC_021164.1	Ca_kabuli_chr05	33099246	AA	CC	1946851336

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_74534_33099608	NC_021164.1	Ca_kabuli_chr05	33099608	TT	CC	1946851340
SNP_P4_74535_33099634	NC_021164.1	Ca_kabuli_chr05	33099634	AA	GG	1946851342
SNP_P4_74536_33099641	NC_021164.1	Ca_kabuli_chr05	33099641	TT	CC	1946851344
SNP_P4_74537_33099643	NC_021164.1	Ca_kabuli_chr05	33099643	AA	GG	1946851346
SNP_P4_74538_33125077	NC_021164.1	Ca_kabuli_chr05	33125077	TT	CC	1946851348
SNP_P4_74539_33140280	NC_021164.1	Ca_kabuli_chr05	33140280	TT	CC	1946851350
SNP_P4_74541_33146742	NC_021164.1	Ca_kabuli_chr05	33146742	GG	AA	1946851352
SNP_P4_74542_33166345	NC_021164.1	Ca_kabuli_chr05	33166345	CC	TT	1946851354
SNP_P4_74543_33166901	NC_021164.1	Ca_kabuli_chr05	33166901	GG	AA	1946851356
SNP_P4_74544_33184267	NC_021164.1	Ca_kabuli_chr05	33184267	CC	TT	1946851358
SNP_P4_74546_33225210	NC_021164.1	Ca_kabuli_chr05	33225210	CC	TT	1946851360
SNP_P4_74547_33225287	NC_021164.1	Ca_kabuli_chr05	33225287	AA	GG	1946851362
SNP_P4_74548_33225329	NC_021164.1	Ca_kabuli_chr05	33225329	CC	TT	1946851364
SNP_P4_74549_33225588	NC_021164.1	Ca_kabuli_chr05	33225588	CC	AA	1946851366
SNP_P4_74550_33225721	NC_021164.1	Ca_kabuli_chr05	33225721	TT	CC	1946851369
SNP_P4_74551_33225778	NC_021164.1	Ca_kabuli_chr05	33225778	GG	AA	1946851371
SNP_P4_74552_33225814	NC_021164.1	Ca_kabuli_chr05	33225814	AA	CC	1946851373
SNP_P4_74553_33270337	NC_021164.1	Ca_kabuli_chr05	33270337	TT	CC	1946851375
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SNP_P4_74557_33364234	NC_021164.1	Ca_kabuli_chr05	33364234	AA	GG	1946851379
SNP_P4_74558_33378371	NC_021164.1	Ca_kabuli_chr05	33378371	AA	CC	1946851381
SNP_P4_74559_33390580	NC_021164.1	Ca_kabuli_chr05	33390580	AA	CC	1946851383
SNP_P4_74560_33390594	NC_021164.1	Ca_kabuli_chr05	33390594	AA	TT	1946851385
SNP_P4_74562_33423266	NC_021164.1	Ca_kabuli_chr05	33423266	CC	TT	1946851387
SNP_P4_74564_33438724	NC_021164.1	Ca_kabuli_chr05	33438724	AA	TT	1946851389
SNP_P4_74566_33439192	NC_021164.1	Ca_kabuli_chr05	33439192	TT	CC	1946851391
SNP_P4_74567_33441027	NC_021164.1	Ca_kabuli_chr05	33441027	TT	CC	1946851393
SNP_P4_74568_33441362	NC_021164.1	Ca_kabuli_chr05	33441362	GG	TT	1946851395
SNP_P4_74571_33454577	NC_021164.1	Ca_kabuli_chr05	33454577	CC	TT	1946851397
SNP_P4_74574_33457504	NC_021164.1	Ca_kabuli_chr05	33457504	CC	AA	1946851399
SNP_P4_74575_33457639	NC_021164.1	Ca_kabuli_chr05	33457639	TT	CC	1946851401
SNP_P4_74576_33457689	NC_021164.1	Ca_kabuli_chr05	33457689	CC	TT	1946851403
SNP_P4_74577_33457884	NC_021164.1	Ca_kabuli_chr05	33457884	GG	TT	1946851405
SNP_P4_74579_33457965	NC_021164.1	Ca_kabuli_chr05	33457965	GG	AA	1946851407
SNP_P4_74580_33457987	NC_021164.1	Ca_kabuli_chr05	33457987	TT	CC	1946851409
SNP_P4_74581_33460909	NC_021164.1	Ca_kabuli_chr05	33460909	AA	GG	1946851411
SNP_P4_74582_33465441	NC_021164.1	Ca_kabuli_chr05	33465441	AA	CC	1946851414
SNP_P4_74583_33524082	NC_021164.1	Ca_kabuli_chr05	33524082	CC	AA	1946851416
SNP_P4_74585_33526756	NC_021164.1	Ca_kabuli_chr05	33526756	CC	TT	1946851418
SNP_P4_74588_33544930	NC_021164.1	Ca_kabuli_chr05	33544930	AA	TT	1946851420
SNP_P4_74589_33546527	NC_021164.1	Ca_kabuli_chr05	33546527	TT	CC	1946851422

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_74593_33569536	NC_021164.1	Ca_kabuli_chr05	33569536	GG	CC	1946851426
SNP_P4_74594_33600032	NC_021164.1	Ca_kabuli_chr05	33600032	AA	CC	1946851428
SNP_P4_74598_33606891	NC_021164.1	Ca_kabuli_chr05	33606891	TT	CC	1946851430
SNP_P4_74599_33609474	NC_021164.1	Ca_kabuli_chr05	33609474	TT	AA	1946851432
SNP_P4_74600_33613417	NC_021164.1	Ca_kabuli_chr05	33613417	GG	CC	1946851434
SNP_P4_74601_33613418	NC_021164.1	Ca_kabuli_chr05	33613418	AA	TT	1946851436
SNP_P4_74602_33661117	NC_021164.1	Ca_kabuli_chr05	33661117	TT	CC	1946851438
SNP_P4_74603_33672192	NC_021164.1	Ca_kabuli_chr05	33672192	CC	TT	1946851440
SNP_P4_74605_33684469	NC_021164.1	Ca_kabuli_chr05	33684469	CC	TT	1946851442
SNP_P4_74606_33701168	NC_021164.1	Ca_kabuli_chr05	33701168	TT	CC	1946851444
SNP_P4_74607_33728774	NC_021164.1	Ca_kabuli_chr05	33728774	CC	TT	1946851446
SNP_P4_74608_33731460	NC_021164.1	Ca_kabuli_chr05	33731460	TT	AA	1946851448
SNP_P4_74609_33739677	NC_021164.1	Ca_kabuli_chr05	33739677	AA	TT	1946851450
SNP_P4_74610_33743006	NC_021164.1	Ca_kabuli_chr05	33743006	CC	TT	1946851452
SNP_P4_74611_33777264	NC_021164.1	Ca_kabuli_chr05	33777264	GG	TT	1946851454
SNP_P4_74615_33834518	NC_021164.1	Ca_kabuli_chr05	33834518	TT	CC	1946851456
SNP_P4_74616_33865775	NC_021164.1	Ca_kabuli_chr05	33865775	TT	GG	1946851458
SNP_P4_74617_33876935	NC_021164.1	Ca_kabuli_chr05	33876935	TT	AA	1946851460
SNP_P4_74619_33895603	NC_021164.1	Ca_kabuli_chr05	33895603	TT	CC	1946851462
SNP_P4_74621_33911671	NC_021164.1	Ca_kabuli_chr05	33911671	CC	TT	1946851464
SNP_P4_74622_33931184	NC_021164.1	Ca_kabuli_chr05	33931184	CC	TT	1946851466
SNP_P4_74623_33937965	NC_021164.1	Ca_kabuli_chr05	33937965	TT	AA	1946851468
SNP_P4_74624_33940574	NC_021164.1	Ca_kabuli_chr05	33940574	GG	TT	1946851470
SNP_P4_74626_34043449	NC_021164.1	Ca_kabuli_chr05	34043449	GG	AA	1946851472
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SNP_P4_74628_34071492	NC_021164.1	Ca_kabuli_chr05	34071492	GG	TT	1946851476
SNP_P4_74629_34085208	NC_021164.1	Ca_kabuli_chr05	34085208	TT	CC	1946851478
SNP_P4_74630_34090958	NC_021164.1	Ca_kabuli_chr05	34090958	CC	TT	1946851480
SNP_P4_74631_34171605	NC_021164.1	Ca_kabuli_chr05	34171605	TT	CC	1946851482
SNP_P4_74632_34174462	NC_021164.1	Ca_kabuli_chr05	34174462	CC	AA	1946851484
SNP_P4_74633_34186144	NC_021164.1	Ca_kabuli_chr05	34186144	CC	TT	1946851486
SNP_P4_74636_34229625	NC_021164.1	Ca_kabuli_chr05	34229625	AA	CC	1946851488
SNP_P4_74637_34254121	NC_021164.1	Ca_kabuli_chr05	34254121	TT	AA	1946851490
SNP_P4_74640_34335067	NC_021164.1	Ca_kabuli_chr05	34335067	GG	AA	1946851492
SNP_P4_74641_34380773	NC_021164.1	Ca_kabuli_chr05	34380773	CC	TT	1946851494
SNP_P4_74642_34380931	NC_021164.1	Ca_kabuli_chr05	34380931	CC	AA	1946851496
SNP_P4_74643_34381022	NC_021164.1	Ca_kabuli_chr05	34381022	GG	AA	1946851498
SNP_P4_74644_34381037	NC_021164.1	Ca_kabuli_chr05	34381037	AA	GG	1946851500
SNP_P4_74645_34381347	NC_021164.1	Ca_kabuli_chr05	34381347	CC	GG	1946851502
SNP_P4_74646_34381394	NC_021164.1	Ca_kabuli_chr05	34381394	TT	CC	1946851504
SNP_P4_74647_34381463	NC_021164.1	Ca_kabuli_chr05	34381463	TT	CC	1946851506

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_74650_34443716	NC_021164.1	Ca_kabuli_chr05	34443716	TT	AA	1946851512
SNP_P4_74651_34462416	NC_021164.1	Ca_kabuli_chr05	34462416	AA	GG	1946851514
SNP_P4_74652_34466303	NC_021164.1	Ca_kabuli_chr05	34466303	AA	GG	1946851516
SNP_P4_74654_34471542	NC_021164.1	Ca_kabuli_chr05	34471542	GG	AA	1946851518
SNP_P4_74655_34471781	NC_021164.1	Ca_kabuli_chr05	34471781	TT	GG	1946851520
SNP_P4_74656_34471783	NC_021164.1	Ca_kabuli_chr05	34471783	GG	AA	1946851522
SNP_P4_74657_34473893	NC_021164.1	Ca_kabuli_chr05	34473893	GG	AA	1946851524
SNP_P4_74658_34473894	NC_021164.1	Ca_kabuli_chr05	34473894	GG	TT	1946851526
SNP_P4_74659_34503023	NC_021164.1	Ca_kabuli_chr05	34503023	CC	TT	1946851528
SNP_P4_74660_34521416	NC_021164.1	Ca_kabuli_chr05	34521416	TT	AA	1946851530
SNP_P4_74663_34546779	NC_021164.1	Ca_kabuli_chr05	34546779	GG	AA	1946851532
SNP_P4_74664_34567597	NC_021164.1	Ca_kabuli_chr05	34567597	CC	TT	1946851534
SNP_P4_74665_34567599	NC_021164.1	Ca_kabuli_chr05	34567599	GG	CC	1946851536
SNP_P4_74666_34574452	NC_021164.1	Ca_kabuli_chr05	34574452	AA	GG	1946851538
SNP_P4_74667_34576953	NC_021164.1	Ca_kabuli_chr05	34576953	AA	TT	1946851540
SNP_P4_74668_34617276	NC_021164.1	Ca_kabuli_chr05	34617276	TT	AA	1946851542
SNP_P4_74669_34623869	NC_021164.1	Ca_kabuli_chr05	34623869	CC	AA	1946851544
SNP_P4_74670_34654158	NC_021164.1	Ca_kabuli_chr05	34654158	AA	TT	1946851546
SNP_P4_74671_34654159	NC_021164.1	Ca_kabuli_chr05	34654159	AA	TT	1946851548
SNP_P4_74673_34732024	NC_021164.1	Ca_kabuli_chr05	34732024	CC	TT	1946851550
SNP_P4_74674_34768581	NC_021164.1	Ca_kabuli_chr05	34768581	TT	CC	1946851552
SNP_P4_74676_34776387	NC_021164.1	Ca_kabuli_chr05	34776387	TT	CC	1946851554
SNP_P4_74677_34777131	NC_021164.1	Ca_kabuli_chr05	34777131	AA	GG	1946851556
SNP_P4_74678_34802868	NC_021164.1	Ca_kabuli_chr05	34802868	CC	TT	1946851558
SNP_P4_74679_34802899	NC_021164.1	Ca_kabuli_chr05	34802899	AA	GG	1946851560
SNP_P4_74680_34825347	NC_021164.1	Ca_kabuli_chr05	34825347	AA	GG	1946851562
SNP_P4_74682_34852947	NC_021164.1	Ca_kabuli_chr05	34852947	TT	CC	1946851564
SNP_P4_74683_34852948	NC_021164.1	Ca_kabuli_chr05	34852948	TT	CC	1946851566
SNP_P4_74685_34874947	NC_021164.1	Ca_kabuli_chr05	34874947	CC	TT	1946851568
SNP_P4_74686_34875205	NC_021164.1	Ca_kabuli_chr05	34875205	AA	GG	1946851569
SNP_P4_74687_34875212	NC_021164.1	Ca_kabuli_chr05	34875212	AA	GG	1946851571
SNP_P4_74688_34875259	NC_021164.1	Ca_kabuli_chr05	34875259	GG	TT	1946851574
SNP_P4_74689_34875286	NC_021164.1	Ca_kabuli_chr05	34875286	TT	CC	1946851576
SNP_P4_74690_34875308	NC_021164.1	Ca_kabuli_chr05	34875308	AA	GG	1946851578
SNP_P4_74691_34875356	NC_021164.1	Ca_kabuli_chr05	34875356	CC	TT	1946851580
SNP_P4_74692_34875412	NC_021164.1	Ca_kabuli_chr05	34875412	TT	GG	1946851582
SNP_P4_74693_34876507	NC_021164.1	Ca_kabuli_chr05	34876507	CC	TT	1946851584
SNP_P4_74694_34876654	NC_021164.1	Ca_kabuli_chr05	34876654	CC	TT	1946851586
SNP_P4_74695_34883986	NC_021164.1	Ca_kabuli_chr05	34883986	AA	CC	1946851588
SNP_P4_74697_34893292	NC_021164.1	Ca_kabuli_chr05	34893292	AA	GG	1946851589

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_74699_34961522	NC_021164.1	Ca_kabuli_chr05	34961522	CC	TT	1946851593
SNP_P4_74701_34995296	NC_021164.1	Ca_kabuli_chr05	34995296	GG	AA	1946851595
SNP_P4_74702_35015266	NC_021164.1	Ca_kabuli_chr05	35015266	GG	AA	1946851597
SNP_P4_74704_35032122	NC_021164.1	Ca_kabuli_chr05	35032122	TT	AA	1946851599
SNP_P4_74705_35034915	NC_021164.1	Ca_kabuli_chr05	35034915	AA	GG	1946851601
SNP_P4_74707_35049540	NC_021164.1	Ca_kabuli_chr05	35049540	CC	TT	1946851603
SNP_P4_74709_35059729	NC_021164.1	Ca_kabuli_chr05	35059729	GG	AA	1946851605
SNP_P4_74712_35099855	NC_021164.1	Ca_kabuli_chr05	35099855	GG	AA	1946851607
SNP_P4_74713_35108668	NC_021164.1	Ca_kabuli_chr05	35108668	AA	GG	1946851609
SNP_P4_74715_35144958	NC_021164.1	Ca_kabuli_chr05	35144958	GG	AA	1946851611
SNP_P4_74716_35146483	NC_021164.1	Ca_kabuli_chr05	35146483	TT	CC	1946851612
SNP_P4_74719_35197432	NC_021164.1	Ca_kabuli_chr05	35197432	GG	AA	1946851614
SNP_P4_74720_35202350	NC_021164.1	Ca_kabuli_chr05	35202350	TT	CC	1946851616
SNP_P4_74721_35202352	NC_021164.1	Ca_kabuli_chr05	35202352	TT	GG	1946851618
SNP_P4_74723_35260056	NC_021164.1	Ca_kabuli_chr05	35260056	CC	TT	1946851620
SNP_P4_74726_35371507	NC_021164.1	Ca_kabuli_chr05	35371507	CC	GG	1946851622
SNP_P4_74727_35378636	NC_021164.1	Ca_kabuli_chr05	35378636	AA	CC	1946851624
SNP_P4_74728_35383422	NC_021164.1	Ca_kabuli_chr05	35383422	AA	TT	1946851626
SNP_P4_74729_35387905	NC_021164.1	Ca_kabuli_chr05	35387905	CC	TT	1946851628
SNP_P4_74731_35410591	NC_021164.1	Ca_kabuli_chr05	35410591	TT	CC	1946851630
SNP_P4_74733_35462425	NC_021164.1	Ca_kabuli_chr05	35462425	TT	GG	1946851632
SNP_P4_74738_35507381	NC_021164.1	Ca_kabuli_chr05	35507381	TT	AA	1946851633
SNP_P4_74739_35526926	NC_021164.1	Ca_kabuli_chr05	35526926	AA	GG	1946851635
SNP_P4_74740_35551564	NC_021164.1	Ca_kabuli_chr05	35551564	AA	GG	1946851637
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SNP_P4_74742_35570453	NC_021164.1	Ca_kabuli_chr05	35570453	GG	TT	1946851641
SNP_P4_74743_35570533	NC_021164.1	Ca_kabuli_chr05	35570533	TT	AA	1946851643
SNP_P4_74744_35571374	NC_021164.1	Ca_kabuli_chr05	35571374	TT	AA	1946851645
SNP_P4_74745_35571428	NC_021164.1	Ca_kabuli_chr05	35571428	AA	CC	1946851648
SNP_P4_74746_35571452	NC_021164.1	Ca_kabuli_chr05	35571452	AA	CC	1946851650
SNP_P4_74747_35571466	NC_021164.1	Ca_kabuli_chr05	35571466	GG	TT	1946851652
SNP_P4_74748_35571474	NC_021164.1	Ca_kabuli_chr05	35571474	CC	GG	1946851654
SNP_P4_74749_35571486	NC_021164.1	Ca_kabuli_chr05	35571486	AA	CC	1946851656
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SNP_P4_74751_35582472	NC_021164.1	Ca_kabuli_chr05	35582472	GG	AA	1946851660
SNP_P4_74754_35606571	NC_021164.1	Ca_kabuli_chr05	35606571	GG	AA	1946851662
SNP_P4_74755_35645107	NC_021164.1	Ca_kabuli_chr05	35645107	TT	CC	1946851664
SNP_P4_74758_35716462	NC_021164.1	Ca_kabuli_chr05	35716462	TT	CC	1946851666
SNP_P4_74761_35798219	NC_021164.1	Ca_kabuli_chr05	35798219	AA	TT	1946851668
SNP_P4_74763_35861485	NC_021164.1	Ca_kabuli_chr05	35861485	TT	CC	1946851670
SNP_P4_74765_35875023	NC_021164.1	Ca_kabuli_chr05	35875023	AA	GG	1946851672

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_74768_35909424	NC_021164.1	Ca_kabuli_chr05	35909424	AA	TT	1946851677
SNP_P4_74769_35914563	NC_021164.1	Ca_kabuli_chr05	35914563	TT	GG	1946851679
SNP_P4_74771_35915976	NC_021164.1	Ca_kabuli_chr05	35915976	CC	TT	1946851682
SNP_P4_74772_35916254	NC_021164.1	Ca_kabuli_chr05	35916254	GG	AA	1946851684
SNP_P4_74773_35962399	NC_021164.1	Ca_kabuli_chr05	35962399	TT	CC	1946851686
SNP_P4_74774_36021877	NC_021164.1	Ca_kabuli_chr05	36021877	AA	GG	1946851688
SNP_P4_74777_36052579	NC_021164.1	Ca_kabuli_chr05	36052579	AA	CC	1946851690
SNP_P4_74778_36064281	NC_021164.1	Ca_kabuli_chr05	36064281	TT	GG	1946851692
SNP_P4_74779_36074082	NC_021164.1	Ca_kabuli_chr05	36074082	TT	AA	1946851694
SNP_P4_74780_36084329	NC_021164.1	Ca_kabuli_chr05	36084329	TT	GG	1946851696
SNP_P4_74781_36086209	NC_021164.1	Ca_kabuli_chr05	36086209	GG	AA	1946851698
SNP_P4_74783_36101596	NC_021164.1	Ca_kabuli_chr05	36101596	TT	AA	1946851700
SNP_P4_74784_36145337	NC_021164.1	Ca_kabuli_chr05	36145337	CC	TT	1946851703
SNP_P4_74785_36149807	NC_021164.1	Ca_kabuli_chr05	36149807	AA	GG	1946851705
SNP_P4_74786_36161742	NC_021164.1	Ca_kabuli_chr05	36161742	CC	TT	1946851707
SNP_P4_74787_36173667	NC_021164.1	Ca_kabuli_chr05	36173667	TT	CC	1946851709
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SNP_P4_74792_36276541	NC_021164.1	Ca_kabuli_chr05	36276541	AA	TT	1946851716
SNP_P4_74793_36280459	NC_021164.1	Ca_kabuli_chr05	36280459	AA	CC	1946851718
SNP_P4_74794_36280465	NC_021164.1	Ca_kabuli_chr05	36280465	TT	GG	1946851720
SNP_P4_74795_36294142	NC_021164.1	Ca_kabuli_chr05	36294142	GG	AA	1946851722
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SNP_P4_74801_36364595	NC_021164.1	Ca_kabuli_chr05	36364595	GG	TT	1946851730
SNP_P4_74802_36379972	NC_021164.1	Ca_kabuli_chr05	36379972	AA	GG	1946851732
SNP_P4_74803_36388885	NC_021164.1	Ca_kabuli_chr05	36388885	CC	TT	1946851734
SNP_P4_74804_36389717	NC_021164.1	Ca_kabuli_chr05	36389717	AA	GG	1946851736
SNP_P4_74805_36389718	NC_021164.1	Ca_kabuli_chr05	36389718	AA	TT	1946851738
SNP_P4_74808_36421509	NC_021164.1	Ca_kabuli_chr05	36421509	AA	TT	1946851740
SNP_P4_74810_36445217	NC_021164.1	Ca_kabuli_chr05	36445217	AA	GG	1946851742
SNP_P4_74811_36445229	NC_021164.1	Ca_kabuli_chr05	36445229	TT	AA	1946851744
SNP_P4_74812_36445324	NC_021164.1	Ca_kabuli_chr05	36445324	CC	TT	1946851746
SNP_P4_74813_36445326	NC_021164.1	Ca_kabuli_chr05	36445326	CC	TT	1946851748
SNP_P4_74814_36445365	NC_021164.1	Ca_kabuli_chr05	36445365	AA	GG	1946851750
SNP_P4_74815_36445369	NC_021164.1	Ca_kabuli_chr05	36445369	CC	TT	1946851752
SNP_P4_74816_36445372	NC_021164.1	Ca_kabuli_chr05	36445372	TT	CC	1946851754
SNP_P4_74817_36445797	NC_021164.1	Ca_kabuli_chr05	36445797	TT	CC	1946851756
SNP_P4_74818_36446027	NC_021164.1	Ca_kabuli_chr05	36446027	CC	TT	1946851758
SNP_P4_74819_36453515	NC_021164.1	Ca_kabuli_chr05	36453515	TT	GG	1946851760

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_74821_36454521	NC_021164.1	Ca_kabuli_chr05	36454521	TT	CC	1946851764
SNP_P4_74822_36483864	NC_021164.1	Ca_kabuli_chr05	36483864	TT	GG	1946851766
SNP_P4_74823_36491135	NC_021164.1	Ca_kabuli_chr05	36491135	AA	GG	1946851768
SNP_P4_74824_36491535	NC_021164.1	Ca_kabuli_chr05	36491535	AA	GG	1946851770
SNP_P4_74825_36492370	NC_021164.1	Ca_kabuli_chr05	36492370	TT	AA	1946851772
SNP_P4_74826_36492416	NC_021164.1	Ca_kabuli_chr05	36492416	TT	CC	1946851774
SNP_P4_74827_36492417	NC_021164.1	Ca_kabuli_chr05	36492417	AA	GG	1946851776
SNP_P4_74828_36492445	NC_021164.1	Ca_kabuli_chr05	36492445	AA	GG	1946851778
SNP_P4_74829_36492446	NC_021164.1	Ca_kabuli_chr05	36492446	AA	GG	1946851780
SNP_P4_74830_36492453	NC_021164.1	Ca_kabuli_chr05	36492453	GG	TT	1946851782
SNP_P4_74831_36492476	NC_021164.1	Ca_kabuli_chr05	36492476	GG	AA	1946851784
SNP_P4_74832_36492747	NC_021164.1	Ca_kabuli_chr05	36492747	GG	AA	1946851786
SNP_P4_74833_36492753	NC_021164.1	Ca_kabuli_chr05	36492753	AA	GG	1946851788
SNP_P4_74834_36492851	NC_021164.1	Ca_kabuli_chr05	36492851	AA	GG	1946851790
SNP_P4_74835_36503903	NC_021164.1	Ca_kabuli_chr05	36503903	TT	CC	1946851792
SNP_P4_74836_36503907	NC_021164.1	Ca_kabuli_chr05	36503907	TT	GG	1946851794
SNP_P4_74837_36513977	NC_021164.1	Ca_kabuli_chr05	36513977	CC	TT	1946851796
SNP_P4_74838_36521459	NC_021164.1	Ca_kabuli_chr05	36521459	AA	GG	1946851798
SNP_P4_74839_36537049	NC_021164.1	Ca_kabuli_chr05	36537049	TT	AA	1946851800
SNP_P4_74840_36538079	NC_021164.1	Ca_kabuli_chr05	36538079	AA	GG	1946851802
SNP_P4_74841_36545941	NC_021164.1	Ca_kabuli_chr05	36545941	TT	CC	1946851804
SNP_P4_74842_36550540	NC_021164.1	Ca_kabuli_chr05	36550540	CC	TT	1946851806
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SNP_P4_74848_36583849	NC_021164.1	Ca_kabuli_chr05	36583849	TT	AA	1946851818
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SNP_P4_74851_36597222	NC_021164.1	Ca_kabuli_chr05	36597222	AA	TT	1946851821
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SNP_P4_74860_36739511	NC_021164.1	Ca_kabuli_chr05	36739511	GG	AA	1946851835
SNP_P4_74861_36793740	NC_021164.1	Ca_kabuli_chr05	36793740	GG	TT	1946851837
SNP_P4_74863_36879280	NC_021164.1	Ca_kabuli_chr05	36879280	AA	GG	1946851839
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SNP_P4_74865_36879837	NC_021164.1	Ca_kabuli_chr05	36879837	CC	AA	1946851843

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_74869_36959789	NC_021164.1	Ca_kabuli_chr05	36959789	CC	TT	1946851849
SNP_P4_74872_36971146	NC_021164.1	Ca_kabuli_chr05	36971146	AA	GG	1946851851
SNP_P4_74873_37003561	NC_021164.1	Ca_kabuli_chr05	37003561	TT	CC	1946851853
SNP_P4_74874_37004408	NC_021164.1	Ca_kabuli_chr05	37004408	TT	CC	1946851855
SNP_P4_74877_37089525	NC_021164.1	Ca_kabuli_chr05	37089525	CC	TT	1946851857
SNP_P4_74878_37094316	NC_021164.1	Ca_kabuli_chr05	37094316	TT	GG	1946851859
SNP_P4_74881_37126371	NC_021164.1	Ca_kabuli_chr05	37126371	AA	GG	1946851861
SNP_P4_74882_37131572	NC_021164.1	Ca_kabuli_chr05	37131572	TT	CC	1946851863
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SNP_P4_74892_37220394	NC_021164.1	Ca_kabuli_chr05	37220394	CC	TT	1946851875
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SNP_P4_74900_37285590	NC_021164.1	Ca_kabuli_chr05	37285590	TT	AA	1946851885
SNP_P4_74901_37285963	NC_021164.1	Ca_kabuli_chr05	37285963	TT	CC	1946851887
SNP_P4_74902_37300667	NC_021164.1	Ca_kabuli_chr05	37300667	GG	TT	1946851889
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SNP_P4_74906_37345507	NC_021164.1	Ca_kabuli_chr05	37345507	TT	AA	1946851897
SNP_P4_74907_37415869	NC_021164.1	Ca_kabuli_chr05	37415869	GG	AA	1946851899
SNP_P4_74908_37417067	NC_021164.1	Ca_kabuli_chr05	37417067	CC	TT	1946851901
SNP_P4_74909_37427732	NC_021164.1	Ca_kabuli_chr05	37427732	GG	AA	1946851903
SNP_P4_74911_37474184	NC_021164.1	Ca_kabuli_chr05	37474184	CC	TT	1946851905
SNP_P4_74912_37481747	NC_021164.1	Ca_kabuli_chr05	37481747	GG	AA	1946851907
SNP_P4_74913_37491974	NC_021164.1	Ca_kabuli_chr05	37491974	AA	TT	1946851909
SNP_P4_74914_37494457	NC_021164.1	Ca_kabuli_chr05	37494457	TT	AA	1946851911
SNP_P4_74915_37503452	NC_021164.1	Ca_kabuli_chr05	37503452	AA	GG	1946851913
SNP_P4_74916_37559969	NC_021164.1	Ca_kabuli_chr05	37559969	GG	AA	1946851915
SNP_P4_74917_37559970	NC_021164.1	Ca_kabuli_chr05	37559970	AA	TT	1946851917
SNP_P4_74918_37562226	NC_021164.1	Ca_kabuli_chr05	37562226	GG	AA	1946851919
SNP_P4_74919_37567325	NC_021164.1	Ca_kabuli_chr05	37567325	AA	GG	1946851920
SNP_P4_74920_37567418	NC_021164.1	Ca_kabuli_chr05	37567418	AA	GG	1946851922
SNP_P4_74921_37567436	NC_021164.1	Ca_kabuli_chr05	37567436	AA	CC	1946851924
SNP_P4_74922_37567559	NC_021164.1	Ca_kabuli_chr05	37567559	GG	AA	1946851926

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_74923_37567819	NC_021164.1	Ca_kabuli_chr05	37567819	TT	CC	1946851928
SNP_P4_74924_37567913	NC_021164.1	Ca_kabuli_chr05	37567913	AA	CC	1946851930
SNP_P4_74925_37567915	NC_021164.1	Ca_kabuli_chr05	37567915	TT	CC	1946851932
SNP_P4_74926_37567922	NC_021164.1	Ca_kabuli_chr05	37567922	AA	GG	1946851934
SNP_P4_74927_37575017	NC_021164.1	Ca_kabuli_chr05	37575017	AA	GG	1946851936
SNP_P4_74928_37603303	NC_021164.1	Ca_kabuli_chr05	37603303	CC	TT	1946851938
SNP_P4_74930_37647119	NC_021164.1	Ca_kabuli_chr05	37647119	GG	TT	1946851940
SNP_P4_74931_37653934	NC_021164.1	Ca_kabuli_chr05	37653934	AA	GG	1946851942
SNP_P4_74932_37653935	NC_021164.1	Ca_kabuli_chr05	37653935	CC	AA	1946851944
SNP_P4_74933_37654472	NC_021164.1	Ca_kabuli_chr05	37654472	CC	TT	1946851946
SNP_P4_74934_37654473	NC_021164.1	Ca_kabuli_chr05	37654473	AA	TT	1946851948
SNP_P4_74936_37673369	NC_021164.1	Ca_kabuli_chr05	37673369	AA	GG	1946851950
SNP_P4_74937_37686471	NC_021164.1	Ca_kabuli_chr05	37686471	GG	AA	1946851952
SNP_P4_74938_37686472	NC_021164.1	Ca_kabuli_chr05	37686472	GG	AA	1946851954
SNP_P4_74940_37692524	NC_021164.1	Ca_kabuli_chr05	37692524	AA	GG	1946851956
SNP_P4_74941_37701887	NC_021164.1	Ca_kabuli_chr05	37701887	AA	TT	1946851958
SNP_P4_74942_37705928	NC_021164.1	Ca_kabuli_chr05	37705928	AA	TT	1946851960
SNP_P4_74943_37715689	NC_021164.1	Ca_kabuli_chr05	37715689	GG	TT	1946851962
SNP_P4_74944_37737562	NC_021164.1	Ca_kabuli_chr05	37737562	AA	TT	1946851964
SNP_P4_74946_37839251	NC_021164.1	Ca_kabuli_chr05	37839251	GG	AA	1946851966
SNP_P4_74947_37839293	NC_021164.1	Ca_kabuli_chr05	37839293	GG	AA	1946851968
SNP_P4_74948_37843519	NC_021164.1	Ca_kabuli_chr05	37843519	AA	GG	1946851970
SNP_P4_74949_37848333	NC_021164.1	Ca_kabuli_chr05	37848333	AA	GG	1946851972
SNP_P4_74951_37866161	NC_021164.1	Ca_kabuli_chr05	37866161	TT	AA	1946851974
SNP_P4_74952_37888337	NC_021164.1	Ca_kabuli_chr05	37888337	AA	GG	1946851976
SNP_P4_74953_37888343	NC_021164.1	Ca_kabuli_chr05	37888343	AA	CC	1946851978
SNP_P4_74954_37888347	NC_021164.1	Ca_kabuli_chr05	37888347	AA	GG	1946851980
SNP_P4_74956_37919734	NC_021164.1	Ca_kabuli_chr05	37919734	TT	CC	1946851982
SNP_P4_74958_37934144	NC_021164.1	Ca_kabuli_chr05	37934144	CC	GG	1946851984
SNP_P4_74961_37958023	NC_021164.1	Ca_kabuli_chr05	37958023	TT	CC	1946851986
SNP_P4_74962_37975637	NC_021164.1	Ca_kabuli_chr05	37975637	CC	TT	1946851988
SNP_P4_74963_37978977	NC_021164.1	Ca_kabuli_chr05	37978977	GG	TT	1946851990
SNP_P4_74964_37979008	NC_021164.1	Ca_kabuli_chr05	37979008	CC	AA	1946851992
SNP_P4_74965_37979060	NC_021164.1	Ca_kabuli_chr05	37979060	TT	GG	1946851994
SNP_P4_74966_37980836	NC_021164.1	Ca_kabuli_chr05	37980836	CC	TT	1946851996
SNP_P4_74967_37980848	NC_021164.1	Ca_kabuli_chr05	37980848	GG	AA	1946851998
SNP_P4_74968_37981030	NC_021164.1	Ca_kabuli_chr05	37981030	AA	TT	1946852000
SNP_P4_74969_37981066	NC_021164.1	Ca_kabuli_chr05	37981066	AA	GG	1946852002
SNP_P4_74970_37981068	NC_021164.1	Ca_kabuli_chr05	37981068	TT	CC	1946852004
SNP_P4_74971_37981131	NC_021164.1	Ca_kabuli_chr05	37981131	CC	AA	1946852006
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SNP_P4_74975_37982839	NC_021164.1	Ca_kabuli_chr05	37982839	AA	CC	1946852010

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_74978_37984861	NC_021164.1	Ca_kabuli_chr05	37984861	TT	GG	1946852015
SNP_P4_74979_37984880	NC_021164.1	Ca_kabuli_chr05	37984880	CC	TT	1946852017
SNP_P4_74980_37986001	NC_021164.1	Ca_kabuli_chr05	37986001	TT	CC	1946852019
SNP_P4_74981_37986084	NC_021164.1	Ca_kabuli_chr05	37986084	TT	CC	1946852021
SNP_P4_74982_37986336	NC_021164.1	Ca_kabuli_chr05	37986336	CC	GG	1946852023
SNP_P4_74983_37986479	NC_021164.1	Ca_kabuli_chr05	37986479	AA	GG	1946852025
SNP_P4_74984_37987059	NC_021164.1	Ca_kabuli_chr05	37987059	GG	AA	1946852027
SNP_P4_74985_37987150	NC_021164.1	Ca_kabuli_chr05	37987150	CC	GG	1946852028
SNP_P4_74986_37987307	NC_021164.1	Ca_kabuli_chr05	37987307	CC	AA	1946852029
SNP_P4_74987_37987323	NC_021164.1	Ca_kabuli_chr05	37987323	AA	TT	1946852031
SNP_P4_74988_37987334	NC_021164.1	Ca_kabuli_chr05	37987334	TT	CC	1946852032
SNP_P4_74989_37987529	NC_021164.1	Ca_kabuli_chr05	37987529	GG	AA	1946852034
SNP_P4_74990_37987548	NC_021164.1	Ca_kabuli_chr05	37987548	CC	AA	1946852036
SNP_P4_74991_37987845	NC_021164.1	Ca_kabuli_chr05	37987845	GG	AA	1946852038
SNP_P4_74992_37987882	NC_021164.1	Ca_kabuli_chr05	37987882	GG	AA	1946852040
SNP_P4_74993_37988352	NC_021164.1	Ca_kabuli_chr05	37988352	GG	CC	1946852042
SNP_P4_74994_37988596	NC_021164.1	Ca_kabuli_chr05	37988596	AA	GG	1946852044
SNP_P4_74995_37988632	NC_021164.1	Ca_kabuli_chr05	37988632	GG	TT	1946852046
SNP_P4_74996_37988690	NC_021164.1	Ca_kabuli_chr05	37988690	CC	TT	1946852048
SNP_P4_74997_37988706	NC_021164.1	Ca_kabuli_chr05	37988706	AA	GG	1946852050
SNP_P4_74998_37988973	NC_021164.1	Ca_kabuli_chr05	37988973	AA	TT	1946852052
SNP_P4_74999_37989052	NC_021164.1	Ca_kabuli_chr05	37989052	AA	GG	1946852054
SNP_P4_75000_37989303	NC_021164.1	Ca_kabuli_chr05	37989303	CC	TT	1946852056
SNP_P4_75001_37989306	NC_021164.1	Ca_kabuli_chr05	37989306	TT	CC	1946852058
SNP_P4_75002_37990836	NC_021164.1	Ca_kabuli_chr05	37990836	GG	TT	1946852060
SNP_P4_75004_37993079	NC_021164.1	Ca_kabuli_chr05	37993079	TT	AA	1946852062
SNP_P4_75005_37993775	NC_021164.1	Ca_kabuli_chr05	37993775	GG	CC	1946852064
SNP_P4_75006_37993800	NC_021164.1	Ca_kabuli_chr05	37993800	AA	TT	1946852066
SNP_P4_75007_37994129	NC_021164.1	Ca_kabuli_chr05	37994129	TT	CC	1946852068
SNP_P4_75008_37997213	NC_021164.1	Ca_kabuli_chr05	37997213	TT	AA	1946852070
SNP_P4_75009_37998201	NC_021164.1	Ca_kabuli_chr05	37998201	CC	TT	1946852072
SNP_P4_75010_37998450	NC_021164.1	Ca_kabuli_chr05	37998450	CC	TT	1946852074
SNP_P4_75011_37999994	NC_021164.1	Ca_kabuli_chr05	37999994	TT	CC	1946852076
SNP_P4_75012_38000874	NC_021164.1	Ca_kabuli_chr05	38000874	TT	GG	1946852078
SNP_P4_75013_38001820	NC_021164.1	Ca_kabuli_chr05	38001820	GG	AA	1946852080
SNP_P4_75014_38001833	NC_021164.1	Ca_kabuli_chr05	38001833	AA	GG	1946852082
SNP_P4_75015_38002059	NC_021164.1	Ca_kabuli_chr05	38002059	GG	AA	1946852084
SNP_P4_75016_38002255	NC_021164.1	Ca_kabuli_chr05	38002255	GG	CC	1946852086
SNP_P4_75017_38002403	NC_021164.1	Ca_kabuli_chr05	38002403	TT	AA	1946852088
SNP_P4_75018_38002705	NC_021164.1	Ca_kabuli_chr05	38002705	TT	GG	1946852090

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_75020_38005109	NC_021164.1	Ca_kabuli_chr05	38005109	CC	AA	1946852094
SNP_P4_75022_38005518	NC_021164.1	Ca_kabuli_chr05	38005518	AA	TT	1946852096
SNP_P4_75023_38005523	NC_021164.1	Ca_kabuli_chr05	38005523	TT	CC	1946852098
SNP_P4_75025_38008464	NC_021164.1	Ca_kabuli_chr05	38008464	GG	AA	1946852100
SNP_P4_75026_38010475	NC_021164.1	Ca_kabuli_chr05	38010475	TT	AA	1946852102
SNP_P4_75027_38011956	NC_021164.1	Ca_kabuli_chr05	38011956	AA	CC	1946852104
SNP_P4_75028_38011987	NC_021164.1	Ca_kabuli_chr05	38011987	CC	TT	1946852106
SNP_P4_75029_38012198	NC_021164.1	Ca_kabuli_chr05	38012198	GG	AA	1946852108
SNP_P4_75030_38012201	NC_021164.1	Ca_kabuli_chr05	38012201	TT	CC	1946852110
SNP_P4_75031_38012214	NC_021164.1	Ca_kabuli_chr05	38012214	GG	AA	1946852112
SNP_P4_75032_38013510	NC_021164.1	Ca_kabuli_chr05	38013510	CC	GG	1946852114
SNP_P4_75033_38013514	NC_021164.1	Ca_kabuli_chr05	38013514	CC	TT	1946852116
SNP_P4_75034_38013520	NC_021164.1	Ca_kabuli_chr05	38013520	CC	AA	1946852117
SNP_P4_75035_38013523	NC_021164.1	Ca_kabuli_chr05	38013523	TT	CC	1946852119
SNP_P4_75036_38014597	NC_021164.1	Ca_kabuli_chr05	38014597	AA	GG	1946852121
SNP_P4_75037_38015026	NC_021164.1	Ca_kabuli_chr05	38015026	TT	GG	1946852123
SNP_P4_75038_38015366	NC_021164.1	Ca_kabuli_chr05	38015366	TT	AA	1946852125
SNP_P4_75039_38015905	NC_021164.1	Ca_kabuli_chr05	38015905	GG	CC	1946852127
SNP_P4_75040_38016422	NC_021164.1	Ca_kabuli_chr05	38016422	GG	TT	1946852129
SNP_P4_75041_38016606	NC_021164.1	Ca_kabuli_chr05	38016606	CC	TT	1946852131
SNP_P4_75043_38016968	NC_021164.1	Ca_kabuli_chr05	38016968	TT	GG	1946852133
SNP_P4_75044_38017039	NC_021164.1	Ca_kabuli_chr05	38017039	TT	AA	1946852135
SNP_P4_75045_38017291	NC_021164.1	Ca_kabuli_chr05	38017291	TT	CC	1946852137
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SNP_P4_75049_38017456	NC_021164.1	Ca_kabuli_chr05	38017456	CC	TT	1946852144
SNP_P4_75050_38017666	NC_021164.1	Ca_kabuli_chr05	38017666	TT	GG	1946852146
SNP_P4_75052_38017803	NC_021164.1	Ca_kabuli_chr05	38017803	TT	CC	1946852148
SNP_P4_75053_38017808	NC_021164.1	Ca_kabuli_chr05	38017808	TT	CC	1946852150
SNP_P4_75054_38018552	NC_021164.1	Ca_kabuli_chr05	38018552	AA	TT	1946852152
SNP_P4_75055_38018558	NC_021164.1	Ca_kabuli_chr05	38018558	GG	CC	1946852154
SNP_P4_75056_38018575	NC_021164.1	Ca_kabuli_chr05	38018575	CC	TT	1946852156
SNP_P4_75057_38018584	NC_021164.1	Ca_kabuli_chr05	38018584	GG	AA	1946852157
SNP_P4_75058_38018616	NC_021164.1	Ca_kabuli_chr05	38018616	GG	CC	1946852159
SNP_P4_75059_38019014	NC_021164.1	Ca_kabuli_chr05	38019014	TT	GG	1946852161
SNP_P4_75060_38019036	NC_021164.1	Ca_kabuli_chr05	38019036	GG	CC	1946852163
SNP_P4_75061_38019045	NC_021164.1	Ca_kabuli_chr05	38019045	GG	CC	1946852165
SNP_P4_75062_38019193	NC_021164.1	Ca_kabuli_chr05	38019193	TT	AA	1946852167
SNP_P4_75063_38019275	NC_021164.1	Ca_kabuli_chr05	38019275	TT	CC	1946852169
SNP_P4_75064_38020635	NC_021164.1	Ca_kabuli_chr05	38020635	AA	GG	1946852171

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_75066_38021780	NC_021164.1	Ca_kabuli_chr05	38021780	TT	CC	1946852174
SNP_P4_75067_38021982	NC_021164.1	Ca_kabuli_chr05	38021982	CC	TT	1946852176
SNP_P4_75068_38021994	NC_021164.1	Ca_kabuli_chr05	38021994	GG	AA	1946852178
SNP_P4_75069_38023211	NC_021164.1	Ca_kabuli_chr05	38023211	CC	TT	1946852180
SNP_P4_75070_38023213	NC_021164.1	Ca_kabuli_chr05	38023213	CC	AA	1946852182
SNP_P4_75071_38023934	NC_021164.1	Ca_kabuli_chr05	38023934	AA	TT	1946852184
SNP_P4_75073_38024030	NC_021164.1	Ca_kabuli_chr05	38024030	CC	AA	1946852186
SNP_P4_75074_38024145	NC_021164.1	Ca_kabuli_chr05	38024145	TT	CC	1946852188
SNP_P4_75075_38024283	NC_021164.1	Ca_kabuli_chr05	38024283	CC	GG	1946852190
SNP_P4_75076_38024289	NC_021164.1	Ca_kabuli_chr05	38024289	CC	AA	1946852192
SNP_P4_75077_38024471	NC_021164.1	Ca_kabuli_chr05	38024471	GG	CC	1946852194
SNP_P4_75078_38024532	NC_021164.1	Ca_kabuli_chr05	38024532	GG	TT	1946852196
SNP_P4_75079_38025739	NC_021164.1	Ca_kabuli_chr05	38025739	CC	TT	1946852198
SNP_P4_75080_38025753	NC_021164.1	Ca_kabuli_chr05	38025753	TT	GG	1946852200
SNP_P4_75082_38026752	NC_021164.1	Ca_kabuli_chr05	38026752	CC	GG	1946852202
SNP_P4_75084_38027770	NC_021164.1	Ca_kabuli_chr05	38027770	CC	GG	1946852204
SNP_P4_75085_38027823	NC_021164.1	Ca_kabuli_chr05	38027823	CC	TT	1946852206
SNP_P4_75086_38027829	NC_021164.1	Ca_kabuli_chr05	38027829	TT	CC	1946852208
SNP_P4_75087_38027994	NC_021164.1	Ca_kabuli_chr05	38027994	CC	TT	1946852210
SNP_P4_75088_38028071	NC_021164.1	Ca_kabuli_chr05	38028071	TT	AA	1946852212
SNP_P4_75089_38028131	NC_021164.1	Ca_kabuli_chr05	38028131	CC	TT	1946852214
SNP_P4_75090_38028141	NC_021164.1	Ca_kabuli_chr05	38028141	TT	AA	1946852216
SNP_P4_75091_38028143	NC_021164.1	Ca_kabuli_chr05	38028143	GG	CC	1946852218
SNP_P4_75092_38028176	NC_021164.1	Ca_kabuli_chr05	38028176	TT	CC	1946852220
SNP_P4_75094_38028225	NC_021164.1	Ca_kabuli_chr05	38028225	TT	CC	1946852222
SNP_P4_75095_38028462	NC_021164.1	Ca_kabuli_chr05	38028462	AA	GG	1946852224
SNP_P4_75096_38028475	NC_021164.1	Ca_kabuli_chr05	38028475	TT	CC	1946852226
SNP_P4_75097_38028486	NC_021164.1	Ca_kabuli_chr05	38028486	TT	CC	1946852228
SNP_P4_75098_38028510	NC_021164.1	Ca_kabuli_chr05	38028510	TT	AA	1946852230
SNP_P4_75099_38028566	NC_021164.1	Ca_kabuli_chr05	38028566	TT	GG	1946852232
SNP_P4_75100_38028747	NC_021164.1	Ca_kabuli_chr05	38028747	CC	TT	1946852234
SNP_P4_75102_38028771	NC_021164.1	Ca_kabuli_chr05	38028771	TT	CC	1946852236
SNP_P4_75104_38029099	NC_021164.1	Ca_kabuli_chr05	38029099	CC	TT	1946852238
SNP_P4_75105_38029125	NC_021164.1	Ca_kabuli_chr05	38029125	GG	AA	1946852241
SNP_P4_75106_38029141	NC_021164.1	Ca_kabuli_chr05	38029141	CC	TT	1946852243
SNP_P4_75107_38030042	NC_021164.1	Ca_kabuli_chr05	38030042	AA	TT	1946852245
SNP_P4_75109_38030102	NC_021164.1	Ca_kabuli_chr05	38030102	TT	CC	1946852247
SNP_P4_75111_38030280	NC_021164.1	Ca_kabuli_chr05	38030280	GG	AA	1946852249
SNP_P4_75112_38031223	NC_021164.1	Ca_kabuli_chr05	38031223	CC	TT	1946852251
SNP_P4_75113_38031235	NC_021164.1	Ca_kabuli_chr05	38031235	CC	TT	1946852253
SNP_P4_75114_38031500	NC_021164.1	Ca_kabuli_chr05	38031500	AA	TT	1946852255

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_75117_38034386	NC_021164.1	Ca_kabuli_chr05	38034386	CC	TT	1946852259
SNP_P4_75122_38035069	NC_021164.1	Ca_kabuli_chr05	38035069	TT	GG	1946852261
SNP_P4_75123_38035072	NC_021164.1	Ca_kabuli_chr05	38035072	AA	GG	1946852263
SNP_P4_75124_38035968	NC_021164.1	Ca_kabuli_chr05	38035968	CC	TT	1946852265
SNP_P4_75125_38036020	NC_021164.1	Ca_kabuli_chr05	38036020	AA	GG	1946852267
SNP_P4_75126_38036526	NC_021164.1	Ca_kabuli_chr05	38036526	TT	CC	1946852269
SNP_P4_75127_38036532	NC_021164.1	Ca_kabuli_chr05	38036532	CC	TT	1946852271
SNP_P4_75128_38036594	NC_021164.1	Ca_kabuli_chr05	38036594	AA	GG	1946852273
SNP_P4_75129_38036603	NC_021164.1	Ca_kabuli_chr05	38036603	TT	CC	1946852275
SNP_P4_75130_38036726	NC_021164.1	Ca_kabuli_chr05	38036726	GG	AA	1946852277
SNP_P4_75132_38036812	NC_021164.1	Ca_kabuli_chr05	38036812	TT	CC	1946852279
SNP_P4_75133_38036831	NC_021164.1	Ca_kabuli_chr05	38036831	TT	CC	1946852281
SNP_P4_75134_38037049	NC_021164.1	Ca_kabuli_chr05	38037049	AA	GG	1946852284
SNP_P4_75135_38037088	NC_021164.1	Ca_kabuli_chr05	38037088	AA	GG	1946852286
SNP_P4_75136_38037231	NC_021164.1	Ca_kabuli_chr05	38037231	TT	AA	1946852288
SNP_P4_75137_38037348	NC_021164.1	Ca_kabuli_chr05	38037348	GG	AA	1946852290
SNP_P4_75138_38038789	NC_021164.1	Ca_kabuli_chr05	38038789	CC	TT	1946852292
SNP_P4_75139_38038813	NC_021164.1	Ca_kabuli_chr05	38038813	AA	TT	1946852294
SNP_P4_75140_38039050	NC_021164.1	Ca_kabuli_chr05	38039050	TT	CC	1946852296
SNP_P4_75141_38040834	NC_021164.1	Ca_kabuli_chr05	38040834	GG	TT	1946852298
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SNP_P4_75144_38042492	NC_021164.1	Ca_kabuli_chr05	38042492	GG	AA	1946852302
SNP_P4_75145_38042503	NC_021164.1	Ca_kabuli_chr05	38042503	TT	CC	1946852304
SNP_P4_75147_38043032	NC_021164.1	Ca_kabuli_chr05	38043032	TT	CC	1946852306
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SNP_P4_75149_38043749	NC_021164.1	Ca_kabuli_chr05	38043749	AA	TT	1946852310
SNP_P4_75151_38043815	NC_021164.1	Ca_kabuli_chr05	38043815	CC	TT	1946852312
SNP_P4_75153_38043882	NC_021164.1	Ca_kabuli_chr05	38043882	GG	AA	1946852314
SNP_P4_75154_38044115	NC_021164.1	Ca_kabuli_chr05	38044115	GG	AA	1946852316
SNP_P4_75155_38044122	NC_021164.1	Ca_kabuli_chr05	38044122	AA	GG	1946852319
SNP_P4_75156_38044128	NC_021164.1	Ca_kabuli_chr05	38044128	AA	GG	1946852321
SNP_P4_75157_38045611	NC_021164.1	Ca_kabuli_chr05	38045611	GG	TT	1946852323
SNP_P4_75158_38045698	NC_021164.1	Ca_kabuli_chr05	38045698	GG	AA	1946852325
SNP_P4_75159_38045955	NC_021164.1	Ca_kabuli_chr05	38045955	AA	GG	1946852327
SNP_P4_75161_38046158	NC_021164.1	Ca_kabuli_chr05	38046158	CC	TT	1946852329
SNP_P4_75162_38046188	NC_021164.1	Ca_kabuli_chr05	38046188	CC	TT	1946852331
SNP_P4_75163_38046204	NC_021164.1	Ca_kabuli_chr05	38046204	AA	GG	1946852333
SNP_P4_75164_38048799	NC_021164.1	Ca_kabuli_chr05	38048799	TT	AA	1946852335
SNP_P4_75165_38048872	NC_021164.1	Ca_kabuli_chr05	38048872	AA	TT	1946852337
SNP_P4_75167_38050022	NC_021164.1	Ca_kabuli_chr05	38050022	CC	TT	1946852339
SNP_P4_75168_38050024	NC_021164.1	Ca_kabuli_chr05	38050024	TT	CC	1946852341

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_75170_38050306	NC_021164.1	Ca_kabuli_chr05	38050306	AA	TT	1946852345
SNP_P4_75171_38050413	NC_021164.1	Ca_kabuli_chr05	38050413	GG	TT	1946852347
SNP_P4_75172_38050442	NC_021164.1	Ca_kabuli_chr05	38050442	GG	AA	1946852349
SNP_P4_75173_38051836	NC_021164.1	Ca_kabuli_chr05	38051836	GG	AA	1946852351
SNP_P4_75175_38052230	NC_021164.1	Ca_kabuli_chr05	38052230	CC	AA	1946852354
SNP_P4_75176_38052586	NC_021164.1	Ca_kabuli_chr05	38052586	GG	AA	1946852356
SNP_P4_75177_38052614	NC_021164.1	Ca_kabuli_chr05	38052614	CC	TT	1946852358
SNP_P4_75178_38052659	NC_021164.1	Ca_kabuli_chr05	38052659	GG	TT	1946852360
SNP_P4_75179_38052664	NC_021164.1	Ca_kabuli_chr05	38052664	AA	GG	1946852362
SNP_P4_75180_38052676	NC_021164.1	Ca_kabuli_chr05	38052676	AA	GG	1946852364
SNP_P4_75181_38052804	NC_021164.1	Ca_kabuli_chr05	38052804	TT	CC	1946852366
SNP_P4_75182_38052826	NC_021164.1	Ca_kabuli_chr05	38052826	TT	AA	1946852368
SNP_P4_75183_38053086	NC_021164.1	Ca_kabuli_chr05	38053086	TT	CC	1946852370
SNP_P4_75184_38053096	NC_021164.1	Ca_kabuli_chr05	38053096	AA	GG	1946852372
SNP_P4_75185_38053102	NC_021164.1	Ca_kabuli_chr05	38053102	CC	GG	1946852374
SNP_P4_75186_38053114	NC_021164.1	Ca_kabuli_chr05	38053114	CC	TT	1946852376
SNP_P4_75187_38053508	NC_021164.1	Ca_kabuli_chr05	38053508	TT	CC	1946852378
SNP_P4_75188_38056267	NC_021164.1	Ca_kabuli_chr05	38056267	AA	CC	1946852380
SNP_P4_75189_38057072	NC_021164.1	Ca_kabuli_chr05	38057072	CC	TT	1946852382
SNP_P4_75190_38057430	NC_021164.1	Ca_kabuli_chr05	38057430	AA	GG	1946852384
SNP_P4_75192_38059097	NC_021164.1	Ca_kabuli_chr05	38059097	TT	AA	1946852387
SNP_P4_75194_38062576	NC_021164.1	Ca_kabuli_chr05	38062576	GG	AA	1946852389
SNP_P4_75195_38063311	NC_021164.1	Ca_kabuli_chr05	38063311	TT	GG	1946852391
SNP_P4_75197_38067399	NC_021164.1	Ca_kabuli_chr05	38067399	CC	TT	1946852393
SNP_P4_75198_38067458	NC_021164.1	Ca_kabuli_chr05	38067458	TT	AA	1946852395
SNP_P4_75200_38067876	NC_021164.1	Ca_kabuli_chr05	38067876	TT	GG	1946852397
SNP_P4_75201_38068023	NC_021164.1	Ca_kabuli_chr05	38068023	AA	CC	1946852399
SNP_P4_75204_38068301	NC_021164.1	Ca_kabuli_chr05	38068301	TT	AA	1946852401
SNP_P4_75205_38068593	NC_021164.1	Ca_kabuli_chr05	38068593	GG	TT	1946852403
SNP_P4_75206_38068684	NC_021164.1	Ca_kabuli_chr05	38068684	CC	GG	1946852405
SNP_P4_75207_38068736	NC_021164.1	Ca_kabuli_chr05	38068736	GG	AA	1946852407
SNP_P4_75208_38068750	NC_021164.1	Ca_kabuli_chr05	38068750	GG	CC	1946852409
SNP_P4_75209_38068773	NC_021164.1	Ca_kabuli_chr05	38068773	AA	CC	1946852411
SNP_P4_75210_38068932	NC_021164.1	Ca_kabuli_chr05	38068932	TT	CC	1946852413
SNP_P4_75211_38068933	NC_021164.1	Ca_kabuli_chr05	38068933	AA	GG	1946852415
SNP_P4_75212_38068956	NC_021164.1	Ca_kabuli_chr05	38068956	TT	CC	1946852417
SNP_P4_75213_38069438	NC_021164.1	Ca_kabuli_chr05	38069438	AA	GG	1946852419
SNP_P4_75214_38069503	NC_021164.1	Ca_kabuli_chr05	38069503	TT	AA	1946852421
SNP_P4_75215_38069504	NC_021164.1	Ca_kabuli_chr05	38069504	TT	AA	1946852423
SNP_P4_75216_38069670	NC_021164.1	Ca_kabuli_chr05	38069670	AA	GG	1946852425
SNP_P4_75217_38069714	NC_021164.1	Ca_kabuli_chr05	38069714	GG	TT	1946852427

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_75219_38070707	NC_021164.1	Ca_kabuli_chr05	38070707	AA	GG	1946852431
SNP_P4_75220_38070821	NC_021164.1	Ca_kabuli_chr05	38070821	AA	CC	1946852433
SNP_P4_75221_38070963	NC_021164.1	Ca_kabuli_chr05	38070963	TT	AA	1946852435
SNP_P4_75222_38070985	NC_021164.1	Ca_kabuli_chr05	38070985	TT	CC	1946852437
SNP_P4_75223_38071048	NC_021164.1	Ca_kabuli_chr05	38071048	GG	AA	1946852439
SNP_P4_75224_38071066	NC_021164.1	Ca_kabuli_chr05	38071066	TT	AA	1946852441
SNP_P4_75225_38071076	NC_021164.1	Ca_kabuli_chr05	38071076	AA	TT	1946852443
SNP_P4_75226_38071087	NC_021164.1	Ca_kabuli_chr05	38071087	GG	AA	1946852445
SNP_P4_75227_38071111	NC_021164.1	Ca_kabuli_chr05	38071111	AA	GG	1946852447
SNP_P4_75228_38071118	NC_021164.1	Ca_kabuli_chr05	38071118	AA	GG	1946852449
SNP_P4_75229_38072218	NC_021164.1	Ca_kabuli_chr05	38072218	CC	AA	1946852451
SNP_P4_75231_38075765	NC_021164.1	Ca_kabuli_chr05	38075765	CC	GG	1946852453
SNP_P4_75233_38076396	NC_021164.1	Ca_kabuli_chr05	38076396	AA	GG	1946852455
SNP_P4_75234_38076402	NC_021164.1	Ca_kabuli_chr05	38076402	GG	CC	1946852457
SNP_P4_75235_38076464	NC_021164.1	Ca_kabuli_chr05	38076464	AA	TT	1946852459
SNP_P4_75236_38076469	NC_021164.1	Ca_kabuli_chr05	38076469	CC	TT	1946852461
SNP_P4_75237_38076925	NC_021164.1	Ca_kabuli_chr05	38076925	AA	GG	1946852463
SNP_P4_75238_38076950	NC_021164.1	Ca_kabuli_chr05	38076950	GG	TT	1946852465
SNP_P4_75239_38078572	NC_021164.1	Ca_kabuli_chr05	38078572	TT	AA	1946852467
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SNP_P4_75242_38079071	NC_021164.1	Ca_kabuli_chr05	38079071	GG	CC	1946852471
SNP_P4_75243_38079311	NC_021164.1	Ca_kabuli_chr05	38079311	CC	TT	1946852473
SNP_P4_75246_38081123	NC_021164.1	Ca_kabuli_chr05	38081123	TT	CC	1946852475
SNP_P4_75248_38085258	NC_021164.1	Ca_kabuli_chr05	38085258	CC	TT	1946852477
SNP_P4_75249_38085395	NC_021164.1	Ca_kabuli_chr05	38085395	GG	AA	1946852479
SNP_P4_75250_38085397	NC_021164.1	Ca_kabuli_chr05	38085397	GG	AA	1946852481
SNP_P4_75251_38085423	NC_021164.1	Ca_kabuli_chr05	38085423	AA	GG	1946852483
SNP_P4_75252_38086672	NC_021164.1	Ca_kabuli_chr05	38086672	GG	TT	1946852485
SNP_P4_75253_38086691	NC_021164.1	Ca_kabuli_chr05	38086691	AA	CC	1946852487
SNP_P4_75254_38086757	NC_021164.1	Ca_kabuli_chr05	38086757	AA	TT	1946852489
SNP_P4_75255_38087101	NC_021164.1	Ca_kabuli_chr05	38087101	GG	CC	1946852491
SNP_P4_75256_38087123	NC_021164.1	Ca_kabuli_chr05	38087123	AA	CC	1946852493
SNP_P4_75257_38087167	NC_021164.1	Ca_kabuli_chr05	38087167	CC	AA	1946852495
SNP_P4_75258_38087709	NC_021164.1	Ca_kabuli_chr05	38087709	TT	CC	1946852497
SNP_P4_75260_38088230	NC_021164.1	Ca_kabuli_chr05	38088230	CC	GG	1946852499
SNP_P4_75261_38088242	NC_021164.1	Ca_kabuli_chr05	38088242	CC	AA	1946852501
SNP_P4_75262_38088250	NC_021164.1	Ca_kabuli_chr05	38088250	GG	AA	1946852503
SNP_P4_75263_38091238	NC_021164.1	Ca_kabuli_chr05	38091238	TT	CC	1946852505
SNP_P4_75264_38091275	NC_021164.1	Ca_kabuli_chr05	38091275	TT	CC	1946852507
SNP_P4_75266_38092025	NC_021164.1	Ca_kabuli_chr05	38092025	AA	GG	1946852509
SNP_P4_75267_38092129	NC_021164.1	Ca_kabuli_chr05	38092129	TT	AA	1946852511

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_75269_38092412	NC_021164.1	Ca_kabuli_chr05	38092412	GG	AA	1946852515
SNP_P4_75270_38092735	NC_021164.1	Ca_kabuli_chr05	38092735	CC	TT	1946852517
SNP_P4_75271_38092793	NC_021164.1	Ca_kabuli_chr05	38092793	CC	TT	1946852519
SNP_P4_75272_38093111	NC_021164.1	Ca_kabuli_chr05	38093111	AA	GG	1946852521
SNP_P4_75274_38093839	NC_021164.1	Ca_kabuli_chr05	38093839	TT	CC	1946852523
SNP_P4_75275_38094026	NC_021164.1	Ca_kabuli_chr05	38094026	CC	TT	1946852526
SNP_P4_75276_38094034	NC_021164.1	Ca_kabuli_chr05	38094034	CC	TT	1946852528
SNP_P4_75277_38094191	NC_021164.1	Ca_kabuli_chr05	38094191	TT	AA	1946852530
SNP_P4_75278_38094450	NC_021164.1	Ca_kabuli_chr05	38094450	CC	TT	1946852532
SNP_P4_75279_38094456	NC_021164.1	Ca_kabuli_chr05	38094456	CC	TT	1946852534
SNP_P4_75281_38094545	NC_021164.1	Ca_kabuli_chr05	38094545	GG	AA	1946852536
SNP_P4_75282_38094784	NC_021164.1	Ca_kabuli_chr05	38094784	GG	AA	1946852538
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SNP_P4_75284_38095086	NC_021164.1	Ca_kabuli_chr05	38095086	TT	CC	1946852542
SNP_P4_75285_38095088	NC_021164.1	Ca_kabuli_chr05	38095088	AA	TT	1946852544
SNP_P4_75286_38095297	NC_021164.1	Ca_kabuli_chr05	38095297	CC	TT	1946852546
SNP_P4_75287_38095573	NC_021164.1	Ca_kabuli_chr05	38095573	TT	AA	1946852548
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SNP_P4_75290_38096164	NC_021164.1	Ca_kabuli_chr05	38096164	TT	GG	1946852554
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SNP_P4_75292_38096321	NC_021164.1	Ca_kabuli_chr05	38096321	TT	AA	1946852558
SNP_P4_75293_38096493	NC_021164.1	Ca_kabuli_chr05	38096493	TT	CC	1946852560
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SNP_P4_75297_38097155	NC_021164.1	Ca_kabuli_chr05	38097155	AA	GG	1946852568
SNP_P4_75298_38097182	NC_021164.1	Ca_kabuli_chr05	38097182	GG	TT	1946852570
SNP_P4_75299_38097204	NC_021164.1	Ca_kabuli_chr05	38097204	TT	CC	1946852572
SNP_P4_75300_38097238	NC_021164.1	Ca_kabuli_chr05	38097238	GG	AA	1946852574
SNP_P4_75301_38098072	NC_021164.1	Ca_kabuli_chr05	38098072	AA	GG	1946852576
SNP_P4_75302_38098102	NC_021164.1	Ca_kabuli_chr05	38098102	TT	AA	1946852578
SNP_P4_75303_38098660	NC_021164.1	Ca_kabuli_chr05	38098660	AA	TT	1946852580
SNP_P4_75305_38100503	NC_021164.1	Ca_kabuli_chr05	38100503	TT	CC	1946852582
SNP_P4_75306_38100599	NC_021164.1	Ca_kabuli_chr05	38100599	CC	TT	1946852584
SNP_P4_75309_38104698	NC_021164.1	Ca_kabuli_chr05	38104698	AA	GG	1946852586
SNP_P4_75310_38107294	NC_021164.1	Ca_kabuli_chr05	38107294	AA	TT	1946852588
SNP_P4_75311_38107737	NC_021164.1	Ca_kabuli_chr05	38107737	CC	TT	1946852590
SNP_P4_75312_38110090	NC_021164.1	Ca_kabuli_chr05	38110090	TT	CC	1946852592
SNP_P4_75313_38110802	NC_021164.1	Ca_kabuli_chr05	38110802	AA	GG	1946852594
SNP_P4_75315_38111832	NC_021164.1	Ca_kabuli_chr05	38111832	GG	AA	1946852596

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_75318_38115727	NC_021164.1	Ca_kabuli_chr05	38115727	GG	CC	1946852602
SNP_P4_75319_38116880	NC_021164.1	Ca_kabuli_chr05	38116880	TT	CC	1946852604
SNP_P4_75320_38117015	NC_021164.1	Ca_kabuli_chr05	38117015	GG	TT	1946852606
SNP_P4_75321_38117181	NC_021164.1	Ca_kabuli_chr05	38117181	GG	AA	1946852608
SNP_P4_75322_38119183	NC_021164.1	Ca_kabuli_chr05	38119183	CC	TT	1946852610
SNP_P4_75323_38119445	NC_021164.1	Ca_kabuli_chr05	38119445	GG	TT	1946852612
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SNP_P4_75326_38121805	NC_021164.1	Ca_kabuli_chr05	38121805	AA	GG	1946852618
SNP_P4_75327_38121968	NC_021164.1	Ca_kabuli_chr05	38121968	AA	GG	1946852620
SNP_P4_75328_38121975	NC_021164.1	Ca_kabuli_chr05	38121975	AA	GG	1946852621
SNP_P4_75329_38121982	NC_021164.1	Ca_kabuli_chr05	38121982	TT	CC	1946852623
SNP_P4_75330_38121989	NC_021164.1	Ca_kabuli_chr05	38121989	AA	TT	1946852625
SNP_P4_75331_38122004	NC_021164.1	Ca_kabuli_chr05	38122004	TT	CC	1946852627
SNP_P4_75332_38122140	NC_021164.1	Ca_kabuli_chr05	38122140	CC	AA	1946852629
SNP_P4_75334_38122274	NC_021164.1	Ca_kabuli_chr05	38122274	CC	TT	1946852631
SNP_P4_75335_38122276	NC_021164.1	Ca_kabuli_chr05	38122276	AA	GG	1946852633
SNP_P4_75336_38122284	NC_021164.1	Ca_kabuli_chr05	38122284	AA	TT	1946852635
SNP_P4_75337_38122312	NC_021164.1	Ca_kabuli_chr05	38122312	GG	CC	1946852637
SNP_P4_75338_38122392	NC_021164.1	Ca_kabuli_chr05	38122392	AA	TT	1946852639
SNP_P4_75339_38122445	NC_021164.1	Ca_kabuli_chr05	38122445	AA	GG	1946852641
SNP_P4_75340_38122551	NC_021164.1	Ca_kabuli_chr05	38122551	TT	CC	1946852643
SNP_P4_75341_38122597	NC_021164.1	Ca_kabuli_chr05	38122597	GG	AA	1946852645
SNP_P4_75342_38122941	NC_021164.1	Ca_kabuli_chr05	38122941	AA	TT	1946852647
SNP_P4_75343_38125266	NC_021164.1	Ca_kabuli_chr05	38125266	GG	AA	1946852649
SNP_P4_75344_38126346	NC_021164.1	Ca_kabuli_chr05	38126346	AA	GG	1946852651
SNP_P4_75345_38126377	NC_021164.1	Ca_kabuli_chr05	38126377	AA	GG	1946852653
SNP_P4_75346_38126392	NC_021164.1	Ca_kabuli_chr05	38126392	TT	CC	1946852655
SNP_P4_75348_38126988	NC_021164.1	Ca_kabuli_chr05	38126988	AA	TT	1946852657
SNP_P4_75349_38127016	NC_021164.1	Ca_kabuli_chr05	38127016	AA	GG	1946852659
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SNP_P4_75351_38127286	NC_021164.1	Ca_kabuli_chr05	38127286	CC	TT	1946852663
SNP_P4_75352_38127362	NC_021164.1	Ca_kabuli_chr05	38127362	GG	CC	1946852665
SNP_P4_75353_38127511	NC_021164.1	Ca_kabuli_chr05	38127511	AA	GG	1946852667
SNP_P4_75354_38127515	NC_021164.1	Ca_kabuli_chr05	38127515	CC	GG	1946852669
SNP_P4_75356_38128440	NC_021164.1	Ca_kabuli_chr05	38128440	AA	GG	1946852671
SNP_P4_75357_38128443	NC_021164.1	Ca_kabuli_chr05	38128443	AA	TT	1946852673
SNP_P4_75358_38132300	NC_021164.1	Ca_kabuli_chr05	38132300	GG	AA	1946852675
SNP_P4_75359_38132423	NC_021164.1	Ca_kabuli_chr05	38132423	CC	TT	1946852677
SNP_P4_75360_38132433	NC_021164.1	Ca_kabuli_chr05	38132433	AA	TT	1946852679

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_75362_38133402	NC_021164.1	Ca_kabuli_chr05	38133402	AA	GG	1946852683
SNP_P4_75363_38133404	NC_021164.1	Ca_kabuli_chr05	38133404	AA	GG	1946852685
SNP_P4_75364_38133442	NC_021164.1	Ca_kabuli_chr05	38133442	AA	TT	1946852687
SNP_P4_75365_38133447	NC_021164.1	Ca_kabuli_chr05	38133447	GG	AA	1946852689
SNP_P4_75366_38133453	NC_021164.1	Ca_kabuli_chr05	38133453	AA	TT	1946852691
SNP_P4_75367_38133454	NC_021164.1	Ca_kabuli_chr05	38133454	TT	AA	1946852693
SNP_P4_75368_38133455	NC_021164.1	Ca_kabuli_chr05	38133455	GG	TT	1946852695
SNP_P4_75369_38133457	NC_021164.1	Ca_kabuli_chr05	38133457	AA	TT	1946852697
SNP_P4_75371_38133794	NC_021164.1	Ca_kabuli_chr05	38133794	CC	TT	1946852699
SNP_P4_75372_38136946	NC_021164.1	Ca_kabuli_chr05	38136946	TT	CC	1946852701
SNP_P4_75373_38136957	NC_021164.1	Ca_kabuli_chr05	38136957	GG	AA	1946852703
SNP_P4_75374_38137011	NC_021164.1	Ca_kabuli_chr05	38137011	GG	AA	1946852705
SNP_P4_75375_38137012	NC_021164.1	Ca_kabuli_chr05	38137012	AA	GG	1946852707
SNP_P4_75376_38137015	NC_021164.1	Ca_kabuli_chr05	38137015	TT	CC	1946852709
SNP_P4_75377_38137038	NC_021164.1	Ca_kabuli_chr05	38137038	CC	TT	1946852711
SNP_P4_75378_38137039	NC_021164.1	Ca_kabuli_chr05	38137039	TT	CC	1946852713
SNP_P4_75379_38137083	NC_021164.1	Ca_kabuli_chr05	38137083	GG	AA	1946852715
SNP_P4_75380_38137092	NC_021164.1	Ca_kabuli_chr05	38137092	GG	AA	1946852717
SNP_P4_75381_38137099	NC_021164.1	Ca_kabuli_chr05	38137099	AA	GG	1946852718
SNP_P4_75382_38137129	NC_021164.1	Ca_kabuli_chr05	38137129	AA	GG	1946852720
SNP_P4_75383_38137132	NC_021164.1	Ca_kabuli_chr05	38137132	AA	TT	1946852722
SNP_P4_75384_38137441	NC_021164.1	Ca_kabuli_chr05	38137441	CC	TT	1946852724
SNP_P4_75385_38138148	NC_021164.1	Ca_kabuli_chr05	38138148	TT	CC	1946852726
SNP_P4_75386_38138314	NC_021164.1	Ca_kabuli_chr05	38138314	AA	TT	1946852728
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SNP_P4_75388_38139803	NC_021164.1	Ca_kabuli_chr05	38139803	TT	CC	1946852732
SNP_P4_75389_38139897	NC_021164.1	Ca_kabuli_chr05	38139897	AA	GG	1946852734
SNP_P4_75390_38140056	NC_021164.1	Ca_kabuli_chr05	38140056	AA	TT	1946852736
SNP_P4_75391_38140294	NC_021164.1	Ca_kabuli_chr05	38140294	CC	GG	1946852738
SNP_P4_75393_38140462	NC_021164.1	Ca_kabuli_chr05	38140462	TT	AA	1946852740
SNP_P4_75394_38140473	NC_021164.1	Ca_kabuli_chr05	38140473	GG	AA	1946852742
SNP_P4_75395_38140581	NC_021164.1	Ca_kabuli_chr05	38140581	TT	CC	1946852744
SNP_P4_75396_38140851	NC_021164.1	Ca_kabuli_chr05	38140851	CC	TT	1946852746
SNP_P4_75397_38140859	NC_021164.1	Ca_kabuli_chr05	38140859	GG	CC	1946852748
SNP_P4_75399_38140949	NC_021164.1	Ca_kabuli_chr05	38140949	CC	GG	1946852750
SNP_P4_75400_38140953	NC_021164.1	Ca_kabuli_chr05	38140953	GG	AA	1946852752
SNP_P4_75401_38140954	NC_021164.1	Ca_kabuli_chr05	38140954	GG	AA	1946852754
SNP_P4_75402_38141066	NC_021164.1	Ca_kabuli_chr05	38141066	AA	TT	1946852756
SNP_P4_75403_38141103	NC_021164.1	Ca_kabuli_chr05	38141103	GG	CC	1946852758
SNP_P4_75404_38141126	NC_021164.1	Ca_kabuli_chr05	38141126	TT	AA	1946852760
SNP_P4_75405_38141154	NC_021164.1	Ca_kabuli_chr05	38141154	TT	AA	1946852762

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_75411_38147773	NC_021164.1	Ca_kabuli_chr05	38147773	GG	AA	1946852768
SNP_P4_75412_38147798	NC_021164.1	Ca_kabuli_chr05	38147798	AA	GG	1946852770
SNP_P4_75413_38147858	NC_021164.1	Ca_kabuli_chr05	38147858	AA	GG	1946852772
SNP_P4_75414_38147886	NC_021164.1	Ca_kabuli_chr05	38147886	CC	TT	1946852774
SNP_P4_75415_38148149	NC_021164.1	Ca_kabuli_chr05	38148149	CC	GG	1946852776
SNP_P4_75416_38148978	NC_021164.1	Ca_kabuli_chr05	38148978	AA	TT	1946852778
SNP_P4_75417_38148979	NC_021164.1	Ca_kabuli_chr05	38148979	CC	AA	1946852780
SNP_P4_75418_38149017	NC_021164.1	Ca_kabuli_chr05	38149017	TT	CC	1946852782
SNP_P4_75420_38150017	NC_021164.1	Ca_kabuli_chr05	38150017	AA	GG	1946852784
SNP_P4_75421_38150033	NC_021164.1	Ca_kabuli_chr05	38150033	AA	GG	1946852785
SNP_P4_75422_38150389	NC_021164.1	Ca_kabuli_chr05	38150389	AA	CC	1946852787
SNP_P4_75423_38150426	NC_021164.1	Ca_kabuli_chr05	38150426	CC	TT	1946852789
SNP_P4_75424_38150751	NC_021164.1	Ca_kabuli_chr05	38150751	AA	GG	1946852791
SNP_P4_75425_38150836	NC_021164.1	Ca_kabuli_chr05	38150836	GG	TT	1946852793
SNP_P4_75427_38151063	NC_021164.1	Ca_kabuli_chr05	38151063	TT	CC	1946852795
SNP_P4_75428_38151066	NC_021164.1	Ca_kabuli_chr05	38151066	CC	TT	1946852797
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SNP_P4_75433_38153390	NC_021164.1	Ca_kabuli_chr05	38153390	TT	CC	1946852805
SNP_P4_75434_38153400	NC_021164.1	Ca_kabuli_chr05	38153400	TT	AA	1946852807
SNP_P4_75435_38153403	NC_021164.1	Ca_kabuli_chr05	38153403	CC	TT	1946852809
SNP_P4_75436_38153406	NC_021164.1	Ca_kabuli_chr05	38153406	GG	CC	1946852811
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SNP_P4_75438_38153867	NC_021164.1	Ca_kabuli_chr05	38153867	TT	AA	1946852815
SNP_P4_75439_38153870	NC_021164.1	Ca_kabuli_chr05	38153870	CC	TT	1946852817
SNP_P4_75440_38154222	NC_021164.1	Ca_kabuli_chr05	38154222	AA	GG	1946852819
SNP_P4_75443_38155189	NC_021164.1	Ca_kabuli_chr05	38155189	AA	GG	1946852821
SNP_P4_75444_38155245	NC_021164.1	Ca_kabuli_chr05	38155245	GG	TT	1946852823
SNP_P4_75445_38155248	NC_021164.1	Ca_kabuli_chr05	38155248	GG	TT	1946852825
SNP_P4_75448_38155432	NC_021164.1	Ca_kabuli_chr05	38155432	GG	AA	1946852827
SNP_P4_75449_38155438	NC_021164.1	Ca_kabuli_chr05	38155438	AA	TT	1946852829
SNP_P4_75450_38155490	NC_021164.1	Ca_kabuli_chr05	38155490	TT	CC	1946852831
SNP_P4_75452_38155794	NC_021164.1	Ca_kabuli_chr05	38155794	CC	GG	1946852833
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SNP_P4_75454_38156354	NC_021164.1	Ca_kabuli_chr05	38156354	AA	CC	1946852837
SNP_P4_75455_38156558	NC_021164.1	Ca_kabuli_chr05	38156558	AA	GG	1946852839
SNP_P4_75456_38157048	NC_021164.1	Ca_kabuli_chr05	38157048	AA	GG	1946852841
SNP_P4_75457_38157055	NC_021164.1	Ca_kabuli_chr05	38157055	GG	AA	1946852843
SNP_P4_75458_38157063	NC_021164.1	Ca_kabuli_chr05	38157063	TT	CC	1946852845

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_75461_38157806	NC_021164.1	Ca_kabuli_chr05	38157806	TT	AA	1946852851
SNP_P4_75462_38157813	NC_021164.1	Ca_kabuli_chr05	38157813	AA	TT	1946852853
SNP_P4_75463_38159380	NC_021164.1	Ca_kabuli_chr05	38159380	CC	GG	1946852855
SNP_P4_75464_38159394	NC_021164.1	Ca_kabuli_chr05	38159394	AA	GG	1946852856
SNP_P4_75465_38159481	NC_021164.1	Ca_kabuli_chr05	38159481	GG	AA	1946852858
SNP_P4_75466_38159637	NC_021164.1	Ca_kabuli_chr05	38159637	AA	CC	1946852860
SNP_P4_75467_38159777	NC_021164.1	Ca_kabuli_chr05	38159777	AA	GG	1946852862
SNP_P4_75468_38159784	NC_021164.1	Ca_kabuli_chr05	38159784	TT	CC	1946852864
SNP_P4_75469_38160507	NC_021164.1	Ca_kabuli_chr05	38160507	AA	GG	1946852866
SNP_P4_75470_38160549	NC_021164.1	Ca_kabuli_chr05	38160549	AA	GG	1946852868
SNP_P4_75471_38160560	NC_021164.1	Ca_kabuli_chr05	38160560	AA	GG	1946852870
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SNP_P4_75473_38165057	NC_021164.1	Ca_kabuli_chr05	38165057	GG	CC	1946852874
SNP_P4_75475_38165088	NC_021164.1	Ca_kabuli_chr05	38165088	AA	TT	1946852876
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SNP_P4_75477_38165688	NC_021164.1	Ca_kabuli_chr05	38165688	TT	CC	1946852880
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SNP_P4_75481_38203526	NC_021164.1	Ca_kabuli_chr05	38203526	AA	GG	1946852888
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SNP_P4_75487_38228592	NC_021164.1	Ca_kabuli_chr05	38228592	TT	GG	1946852899
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SNP_P4_75489_38228930	NC_021164.1	Ca_kabuli_chr05	38228930	TT	CC	1946852903
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SNP_P4_75498_38328973	NC_021164.1	Ca_kabuli_chr05	38328973	CC	TT	1946852917
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SNP_P4_75500_38364208	NC_021164.1	Ca_kabuli_chr05	38364208	TT	CC	1946852921
SNP_P4_75502_38374351	NC_021164.1	Ca_kabuli_chr05	38374351	AA	GG	1946852923
SNP_P4_75503_38374353	NC_021164.1	Ca_kabuli_chr05	38374353	AA	CC	1946852925
SNP_P4_75504_38377510	NC_021164.1	Ca_kabuli_chr05	38377510	TT	AA	1946852927

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_75508_38406010	NC_021164.1	Ca_kabuli_chr05	38406010	AA	CC	1946852933
SNP_P4_75509_38406995	NC_021164.1	Ca_kabuli_chr05	38406995	CC	TT	1946852935
SNP_P4_75512_38407290	NC_021164.1	Ca_kabuli_chr05	38407290	GG	AA	1946852937
SNP_P4_75513_38407302	NC_021164.1	Ca_kabuli_chr05	38407302	AA	GG	1946852939
SNP_P4_75514_38407316	NC_021164.1	Ca_kabuli_chr05	38407316	CC	AA	1946852941
SNP_P4_75515_38407331	NC_021164.1	Ca_kabuli_chr05	38407331	GG	TT	1946852943
SNP_P4_75516_38407349	NC_021164.1	Ca_kabuli_chr05	38407349	TT	CC	1946852945
SNP_P4_75517_38407362	NC_021164.1	Ca_kabuli_chr05	38407362	AA	GG	1946852946
SNP_P4_75518_38407397	NC_021164.1	Ca_kabuli_chr05	38407397	TT	AA	1946852948
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SNP_P4_75520_38407420	NC_021164.1	Ca_kabuli_chr05	38407420	GG	AA	1946852952
SNP_P4_75521_38407428	NC_021164.1	Ca_kabuli_chr05	38407428	TT	CC	1946852954
SNP_P4_75522_38407439	NC_021164.1	Ca_kabuli_chr05	38407439	GG	AA	1946852956
SNP_P4_75523_38407532	NC_021164.1	Ca_kabuli_chr05	38407532	CC	TT	1946852958
SNP_P4_75524_38407581	NC_021164.1	Ca_kabuli_chr05	38407581	AA	CC	1946852960
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SNP_P4_75526_38407631	NC_021164.1	Ca_kabuli_chr05	38407631	GG	AA	1946852964
SNP_P4_75527_38425532	NC_021164.1	Ca_kabuli_chr05	38425532	CC	TT	1946852966
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SNP_P4_75531_38432763	NC_021164.1	Ca_kabuli_chr05	38432763	TT	CC	1946852974
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SNP_P4_75537_38440681	NC_021164.1	Ca_kabuli_chr05	38440681	CC	AA	1946852986
SNP_P4_75538_38476431	NC_021164.1	Ca_kabuli_chr05	38476431	GG	AA	1946852988
SNP_P4_75539_38476468	NC_021164.1	Ca_kabuli_chr05	38476468	TT	CC	1946852990
SNP_P4_75540_38476480	NC_021164.1	Ca_kabuli_chr05	38476480	TT	CC	1946852992
SNP_P4_75541_38476492	NC_021164.1	Ca_kabuli_chr05	38476492	AA	GG	1946852994
SNP_P4_75542_38476563	NC_021164.1	Ca_kabuli_chr05	38476563	GG	AA	1946852996
SNP_P4_75543_38476621	NC_021164.1	Ca_kabuli_chr05	38476621	GG	TT	1946852998
SNP_P4_75544_38476789	NC_021164.1	Ca_kabuli_chr05	38476789	AA	GG	1946853000
SNP_P4_75545_38476801	NC_021164.1	Ca_kabuli_chr05	38476801	TT	CC	1946853002
SNP_P4_75546_38476869	NC_021164.1	Ca_kabuli_chr05	38476869	AA	GG	1946853004
SNP_P4_75547_38476879	NC_021164.1	Ca_kabuli_chr05	38476879	TT	CC	1946853006
SNP_P4_75548_38476894	NC_021164.1	Ca_kabuli_chr05	38476894	TT	AA	1946853008
SNP_P4_75549_38476895	NC_021164.1	Ca_kabuli_chr05	38476895	CC	TT	1946853010

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_75551_38476935	NC_021164.1	Ca_kabuli_chr05	38476935	TT	GG	1946853014
SNP_P4_75552_38476989	NC_021164.1	Ca_kabuli_chr05	38476989	AA	GG	1946853016
SNP_P4_75553_38479617	NC_021164.1	Ca_kabuli_chr05	38479617	GG	AA	1946853018
SNP_P4_75554_38500285	NC_021164.1	Ca_kabuli_chr05	38500285	TT	CC	1946853020
SNP_P4_75555_38508026	NC_021164.1	Ca_kabuli_chr05	38508026	AA	GG	1946853022
SNP_P4_75556_38514049	NC_021164.1	Ca_kabuli_chr05	38514049	GG	TT	1946853024
SNP_P4_75557_38517472	NC_021164.1	Ca_kabuli_chr05	38517472	TT	CC	1946853026
SNP_P4_75558_38598619	NC_021164.1	Ca_kabuli_chr05	38598619	TT	CC	1946853028
SNP_P4_75559_38613576	NC_021164.1	Ca_kabuli_chr05	38613576	TT	AA	1946853030
SNP_P4_75560_38652326	NC_021164.1	Ca_kabuli_chr05	38652326	AA	GG	1946853032
SNP_P4_75561_38691223	NC_021164.1	Ca_kabuli_chr05	38691223	GG	AA	1946853034
SNP_P4_75562_38691273	NC_021164.1	Ca_kabuli_chr05	38691273	GG	AA	1946853036
SNP_P4_75566_38727876	NC_021164.1	Ca_kabuli_chr05	38727876	AA	TT	1946853037
SNP_P4_75567_38746885	NC_021164.1	Ca_kabuli_chr05	38746885	TT	CC	1946853039
SNP_P4_75568_38746886	NC_021164.1	Ca_kabuli_chr05	38746886	CC	TT	1946853041
SNP_P4_75569_38746928	NC_021164.1	Ca_kabuli_chr05	38746928	TT	GG	1946853043
SNP_P4_75570_38754040	NC_021164.1	Ca_kabuli_chr05	38754040	CC	TT	1946853045
SNP_P4_75573_38765085	NC_021164.1	Ca_kabuli_chr05	38765085	AA	CC	1946853047
SNP_P4_75574_38779546	NC_021164.1	Ca_kabuli_chr05	38779546	CC	TT	1946853049
SNP_P4_75575_38779550	NC_021164.1	Ca_kabuli_chr05	38779550	AA	GG	1946853051
SNP_P4_75576_38815279	NC_021164.1	Ca_kabuli_chr05	38815279	TT	GG	1946853053
SNP_P4_75577_38815282	NC_021164.1	Ca_kabuli_chr05	38815282	GG	CC	1946853055
SNP_P4_75578_38822187	NC_021164.1	Ca_kabuli_chr05	38822187	CC	TT	1946853057
SNP_P4_75580_38848828	NC_021164.1	Ca_kabuli_chr05	38848828	TT	CC	1946853059
SNP_P4_75581_38849197	NC_021164.1	Ca_kabuli_chr05	38849197	AA	GG	1946853061
SNP_P4_75583_38849207	NC_021164.1	Ca_kabuli_chr05	38849207	GG	TT	1946853063
SNP_P4_75584_38849210	NC_021164.1	Ca_kabuli_chr05	38849210	AA	GG	1946853065
SNP_P4_75585_38853739	NC_021164.1	Ca_kabuli_chr05	38853739	TT	CC	1946853067
SNP_P4_75588_38891162	NC_021164.1	Ca_kabuli_chr05	38891162	TT	CC	1946853069
SNP_P4_75591_38914319	NC_021164.1	Ca_kabuli_chr05	38914319	AA	TT	1946853071
SNP_P4_75592_38943094	NC_021164.1	Ca_kabuli_chr05	38943094	AA	GG	1946853073
SNP_P4_75593_38978952	NC_021164.1	Ca_kabuli_chr05	38978952	TT	CC	1946853075
SNP_P4_75594_38980212	NC_021164.1	Ca_kabuli_chr05	38980212	TT	AA	1946853077
SNP_P4_75595_38992422	NC_021164.1	Ca_kabuli_chr05	38992422	AA	GG	1946853078
SNP_P4_75596_38992426	NC_021164.1	Ca_kabuli_chr05	38992426	TT	CC	1946853080
SNP_P4_75597_38996220	NC_021164.1	Ca_kabuli_chr05	38996220	TT	AA	1946853082
SNP_P4_75598_38996716	NC_021164.1	Ca_kabuli_chr05	38996716	CC	TT	1946853084
SNP_P4_75600_39040491	NC_021164.1	Ca_kabuli_chr05	39040491	TT	CC	1946853086
SNP_P4_75601_39055630	NC_021164.1	Ca_kabuli_chr05	39055630	AA	GG	1946853088
SNP_P4_75602_39055871	NC_021164.1	Ca_kabuli_chr05	39055871	TT	CC	1946853090
SNP_P4_75603_39055940	NC_021164.1	Ca_kabuli_chr05	39055940	CC	TT	1946853092

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_75606_39056299	NC_021164.1	Ca_kabuli_chr05	39056299	AA	GG	1946853096
SNP_P4_75607_39056326	NC_021164.1	Ca_kabuli_chr05	39056326	CC	TT	1946853098
SNP_P4_75608_39068532	NC_021164.1	Ca_kabuli_chr05	39068532	CC	TT	1946853100
SNP_P4_75609_39091056	NC_021164.1	Ca_kabuli_chr05	39091056	GG	CC	1946853102
SNP_P4_75611_39118865	NC_021164.1	Ca_kabuli_chr05	39118865	AA	CC	1946853104
SNP_P4_75612_39118874	NC_021164.1	Ca_kabuli_chr05	39118874	TT	CC	1946853106
SNP_P4_75613_39118904	NC_021164.1	Ca_kabuli_chr05	39118904	AA	CC	1946853108
SNP_P4_75614_39150847	NC_021164.1	Ca_kabuli_chr05	39150847	TT	CC	1946853110
SNP_P4_75616_39166030	NC_021164.1	Ca_kabuli_chr05	39166030	AA	CC	1946853112
SNP_P4_75617_39219048	NC_021164.1	Ca_kabuli_chr05	39219048	GG	AA	1946853114
SNP_P4_75618_39219072	NC_021164.1	Ca_kabuli_chr05	39219072	GG	TT	1946853116
SNP_P4_75620_39221975	NC_021164.1	Ca_kabuli_chr05	39221975	AA	GG	1946853118
SNP_P4_75621_39252590	NC_021164.1	Ca_kabuli_chr05	39252590	TT	CC	1946853121
SNP_P4_75622_39287696	NC_021164.1	Ca_kabuli_chr05	39287696	CC	GG	1946853123
SNP_P4_75623_39292578	NC_021164.1	Ca_kabuli_chr05	39292578	AA	GG	1946853125
SNP_P4_75624_39326699	NC_021164.1	Ca_kabuli_chr05	39326699	AA	CC	1946853127
SNP_P4_75625_39327110	NC_021164.1	Ca_kabuli_chr05	39327110	AA	CC	1946853129
SNP_P4_75626_39327116	NC_021164.1	Ca_kabuli_chr05	39327116	CC	TT	1946853131
SNP_P4_75627_39327154	NC_021164.1	Ca_kabuli_chr05	39327154	AA	GG	1946853133
SNP_P4_75628_39327180	NC_021164.1	Ca_kabuli_chr05	39327180	AA	GG	1946853135
SNP_P4_75629_39328725	NC_021164.1	Ca_kabuli_chr05	39328725	AA	GG	1946853137
SNP_P4_75630_39328925	NC_021164.1	Ca_kabuli_chr05	39328925	GG	AA	1946853139
SNP_P4_75631_39335802	NC_021164.1	Ca_kabuli_chr05	39335802	CC	TT	1946853141
SNP_P4_75632_39335879	NC_021164.1	Ca_kabuli_chr05	39335879	GG	AA	1946853143
SNP_P4_75633_39358245	NC_021164.1	Ca_kabuli_chr05	39358245	TT	GG	1946853145
SNP_P4_75634_39358257	NC_021164.1	Ca_kabuli_chr05	39358257	TT	AA	1946853147
SNP_P4_75635_39360190	NC_021164.1	Ca_kabuli_chr05	39360190	AA	GG	1946853149
SNP_P4_75636_39360699	NC_021164.1	Ca_kabuli_chr05	39360699	CC	TT	1946853151
SNP_P4_75637_39366062	NC_021164.1	Ca_kabuli_chr05	39366062	CC	TT	1946853153
SNP_P4_75638_39368967	NC_021164.1	Ca_kabuli_chr05	39368967	TT	AA	1946853155
SNP_P4_75639_39369661	NC_021164.1	Ca_kabuli_chr05	39369661	GG	AA	1946853157
SNP_P4_75640_39370568	NC_021164.1	Ca_kabuli_chr05	39370568	TT	AA	1946853159
SNP_P4_75641_39391131	NC_021164.1	Ca_kabuli_chr05	39391131	TT	CC	1946853161
SNP_P4_75642_39391140	NC_021164.1	Ca_kabuli_chr05	39391140	TT	CC	1946853163
SNP_P4_75643_39392013	NC_021164.1	Ca_kabuli_chr05	39392013	TT	CC	1946853165
SNP_P4_75644_39392039	NC_021164.1	Ca_kabuli_chr05	39392039	CC	TT	1946853167
SNP_P4_75645_39393225	NC_021164.1	Ca_kabuli_chr05	39393225	GG	AA	1946853169
SNP_P4_75646_39399486	NC_021164.1	Ca_kabuli_chr05	39399486	CC	TT	1946853171
SNP_P4_75649_39453199	NC_021164.1	Ca_kabuli_chr05	39453199	GG	AA	1946853173
SNP_P4_75650_39462670	NC_021164.1	Ca_kabuli_chr05	39462670	TT	GG	1946853175
SNP_P4_75651_39468566	NC_021164.1	Ca_kabuli_chr05	39468566	CC	GG	1946853177

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_75653_39472812	NC_021164.1	Ca_kabuli_chr05	39472812	AA	CC	1946853181
SNP_P4_75654_39476932	NC_021164.1	Ca_kabuli_chr05	39476932	AA	TT	1946853183
SNP_P4_75656_39489155	NC_021164.1	Ca_kabuli_chr05	39489155	GG	AA	1946853185
SNP_P4_75657_39489160	NC_021164.1	Ca_kabuli_chr05	39489160	AA	CC	1946853187
SNP_P4_75658_39516572	NC_021164.1	Ca_kabuli_chr05	39516572	GG	AA	1946853189
SNP_P4_75659_39525289	NC_021164.1	Ca_kabuli_chr05	39525289	CC	TT	1946853190
SNP_P4_75660_39525519	NC_021164.1	Ca_kabuli_chr05	39525519	CC	TT	1946853192
SNP_P4_75661_39530192	NC_021164.1	Ca_kabuli_chr05	39530192	AA	GG	1946853194
SNP_P4_75662_39530200	NC_021164.1	Ca_kabuli_chr05	39530200	GG	CC	1946853197
SNP_P4_75663_39530251	NC_021164.1	Ca_kabuli_chr05	39530251	AA	CC	1946853199
SNP_P4_75664_39530323	NC_021164.1	Ca_kabuli_chr05	39530323	TT	CC	1946853201
SNP_P4_75665_39530658	NC_021164.1	Ca_kabuli_chr05	39530658	TT	GG	1946853203
SNP_P4_75666_39530670	NC_021164.1	Ca_kabuli_chr05	39530670	TT	CC	1946853205
SNP_P4_75668_39537213	NC_021164.1	Ca_kabuli_chr05	39537213	AA	CC	1946853207
SNP_P4_75670_39537649	NC_021164.1	Ca_kabuli_chr05	39537649	GG	AA	1946853209
SNP_P4_75671_39544932	NC_021164.1	Ca_kabuli_chr05	39544932	TT	CC	1946853211
SNP_P4_75672_39552598	NC_021164.1	Ca_kabuli_chr05	39552598	GG	AA	1946853213
SNP_P4_75673_39553355	NC_021164.1	Ca_kabuli_chr05	39553355	GG	AA	1946853215
SNP_P4_75674_39553496	NC_021164.1	Ca_kabuli_chr05	39553496	TT	CC	1946853217
SNP_P4_75675_39553499	NC_021164.1	Ca_kabuli_chr05	39553499	TT	AA	1946853219
SNP_P4_75678_39576160	NC_021164.1	Ca_kabuli_chr05	39576160	AA	GG	1946853221
SNP_P4_75679_39576384	NC_021164.1	Ca_kabuli_chr05	39576384	AA	GG	1946853223
SNP_P4_75680_39576445	NC_021164.1	Ca_kabuli_chr05	39576445	AA	GG	1946853225
SNP_P4_75681_39642862	NC_021164.1	Ca_kabuli_chr05	39642862	CC	TT	1946853227
SNP_P4_75682_39675794	NC_021164.1	Ca_kabuli_chr05	39675794	CC	TT	1946853229
SNP_P4_75683_39706631	NC_021164.1	Ca_kabuli_chr05	39706631	CC	TT	1946853230
SNP_P4_75684_39707201	NC_021164.1	Ca_kabuli_chr05	39707201	AA	GG	1946853232
SNP_P4_75685_39720969	NC_021164.1	Ca_kabuli_chr05	39720969	GG	AA	1946853234
SNP_P4_75686_39724546	NC_021164.1	Ca_kabuli_chr05	39724546	GG	AA	1946853236
SNP_P4_75687_39735604	NC_021164.1	Ca_kabuli_chr05	39735604	CC	TT	1946853238
SNP_P4_75688_39741542	NC_021164.1	Ca_kabuli_chr05	39741542	GG	AA	1946853240
SNP_P4_75690_39748003	NC_021164.1	Ca_kabuli_chr05	39748003	CC	GG	1946853242
SNP_P4_75691_39748854	NC_021164.1	Ca_kabuli_chr05	39748854	GG	AA	1946853244
SNP_P4_75693_39777509	NC_021164.1	Ca_kabuli_chr05	39777509	TT	CC	1946853246
SNP_P4_75694_39778842	NC_021164.1	Ca_kabuli_chr05	39778842	CC	TT	1946853248
SNP_P4_75696_39800613	NC_021164.1	Ca_kabuli_chr05	39800613	TT	CC	1946853250
SNP_P4_75698_39809162	NC_021164.1	Ca_kabuli_chr05	39809162	AA	GG	1946853252
SNP_P4_75699_39809820	NC_021164.1	Ca_kabuli_chr05	39809820	TT	CC	1946853254
SNP_P4_75700_39815001	NC_021164.1	Ca_kabuli_chr05	39815001	TT	CC	1946853256
SNP_P4_75701_39831856	NC_021164.1	Ca_kabuli_chr05	39831856	GG	TT	1946853258
SNP_P4_75702_39835285	NC_021164.1	Ca_kabuli_chr05	39835285	AA	TT	1946853260

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_75704_39844278	NC_021164.1	Ca_kabuli_chr05	39844278	AA	GG	1946853264
SNP_P4_75705_39854460	NC_021164.1	Ca_kabuli_chr05	39854460	CC	AA	1946853266
SNP_P4_75706_39856720	NC_021164.1	Ca_kabuli_chr05	39856720	AA	CC	1946853268
SNP_P4_75707_39860428	NC_021164.1	Ca_kabuli_chr05	39860428	AA	GG	1946853270
SNP_P4_75708_39868162	NC_021164.1	Ca_kabuli_chr05	39868162	CC	TT	1946853272
SNP_P4_75710_39874912	NC_021164.1	Ca_kabuli_chr05	39874912	AA	GG	1946853274
SNP_P4_75711_39884479	NC_021164.1	Ca_kabuli_chr05	39884479	AA	GG	1946853276
SNP_P4_75712_39915384	NC_021164.1	Ca_kabuli_chr05	39915384	AA	TT	1946853278
SNP_P4_75713_39918059	NC_021164.1	Ca_kabuli_chr05	39918059	CC	AA	1946853280
SNP_P4_75714_39919266	NC_021164.1	Ca_kabuli_chr05	39919266	GG	AA	1946853282
SNP_P4_75716_39963301	NC_021164.1	Ca_kabuli_chr05	39963301	TT	CC	1946853284
SNP_P4_75717_39963303	NC_021164.1	Ca_kabuli_chr05	39963303	TT	GG	1946853286
SNP_P4_75718_39967683	NC_021164.1	Ca_kabuli_chr05	39967683	AA	TT	1946853288
SNP_P4_75720_39994365	NC_021164.1	Ca_kabuli_chr05	39994365	CC	TT	1946853290
SNP_P4_75721_40005187	NC_021164.1	Ca_kabuli_chr05	40005187	CC	TT	1946853292
SNP_P4_75722_40034041	NC_021164.1	Ca_kabuli_chr05	40034041	CC	AA	1946853294
SNP_P4_75723_40053325	NC_021164.1	Ca_kabuli_chr05	40053325	AA	GG	1946853296
SNP_P4_75724_40057624	NC_021164.1	Ca_kabuli_chr05	40057624	AA	TT	1946853298
SNP_P4_75725_40057933	NC_021164.1	Ca_kabuli_chr05	40057933	TT	GG	1946853300
SNP_P4_75726_40063078	NC_021164.1	Ca_kabuli_chr05	40063078	AA	CC	1946853301
SNP_P4_75727_40090170	NC_021164.1	Ca_kabuli_chr05	40090170	GG	CC	1946853304
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SNP_P4_75730_40206846	NC_021164.1	Ca_kabuli_chr05	40206846	CC	TT	1946853307
SNP_P4_75731_40232232	NC_021164.1	Ca_kabuli_chr05	40232232	CC	TT	1946853309
SNP_P4_75732_40256857	NC_021164.1	Ca_kabuli_chr05	40256857	AA	GG	1946853311
SNP_P4_75734_40264780	NC_021164.1	Ca_kabuli_chr05	40264780	AA	GG	1946853313
SNP_P4_75735_40264805	NC_021164.1	Ca_kabuli_chr05	40264805	CC	AA	1946853315
SNP_P4_75736_40270707	NC_021164.1	Ca_kabuli_chr05	40270707	GG	AA	1946853317
SNP_P4_75738_40308874	NC_021164.1	Ca_kabuli_chr05	40308874	TT	CC	1946853319
SNP_P4_75739_40308894	NC_021164.1	Ca_kabuli_chr05	40308894	TT	CC	1946853321
SNP_P4_75740_40308896	NC_021164.1	Ca_kabuli_chr05	40308896	GG	AA	1946853323
SNP_P4_75741_40308906	NC_021164.1	Ca_kabuli_chr05	40308906	TT	CC	1946853325
SNP_P4_75742_40308947	NC_021164.1	Ca_kabuli_chr05	40308947	TT	CC	1946853327
SNP_P4_75743_40308948	NC_021164.1	Ca_kabuli_chr05	40308948	TT	CC	1946853329
SNP_P4_75744_40308989	NC_021164.1	Ca_kabuli_chr05	40308989	AA	GG	1946853331
SNP_P4_75746_40319811	NC_021164.1	Ca_kabuli_chr05	40319811	TT	AA	1946853333
SNP_P4_75747_40328636	NC_021164.1	Ca_kabuli_chr05	40328636	AA	TT	1946853334
SNP_P4_75748_40330457	NC_021164.1	Ca_kabuli_chr05	40330457	AA	GG	1946853336
SNP_P4_75749_40330533	NC_021164.1	Ca_kabuli_chr05	40330533	GG	AA	1946853339
SNP_P4_75750_40331738	NC_021164.1	Ca_kabuli_chr05	40331738	GG	AA	1946853341
SNP_P4_75751_40332055	NC_021164.1	Ca_kabuli_chr05	40332055	AA	CC	1946853343

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_75753_40332104	NC_021164.1	Ca_kabuli_chr05	40332104	AA	GG	1946853347
SNP_P4_75754_40332106	NC_021164.1	Ca_kabuli_chr05	40332106	AA	CC	1946853349
SNP_P4_75755_40332120	NC_021164.1	Ca_kabuli_chr05	40332120	TT	GG	1946853351
SNP_P4_75756_40332125	NC_021164.1	Ca_kabuli_chr05	40332125	TT	CC	1946853353
SNP_P4_75757_40332503	NC_021164.1	Ca_kabuli_chr05	40332503	TT	CC	1946853355
SNP_P4_75758_40337055	NC_021164.1	Ca_kabuli_chr05	40337055	CC	TT	1946853357
SNP_P4_75759_40339166	NC_021164.1	Ca_kabuli_chr05	40339166	TT	CC	1946853359
SNP_P4_75760_40350101	NC_021164.1	Ca_kabuli_chr05	40350101	TT	CC	1946853361
SNP_P4_75761_40355725	NC_021164.1	Ca_kabuli_chr05	40355725	CC	TT	1946853363
SNP_P4_75763_40361845	NC_021164.1	Ca_kabuli_chr05	40361845	AA	GG	1946853365
SNP_P4_75765_40417423	NC_021164.1	Ca_kabuli_chr05	40417423	AA	CC	1946853367
SNP_P4_75767_40419139	NC_021164.1	Ca_kabuli_chr05	40419139	CC	TT	1946853369
SNP_P4_75769_40488618	NC_021164.1	Ca_kabuli_chr05	40488618	CC	AA	1946853371
SNP_P4_75770_40511733	NC_021164.1	Ca_kabuli_chr05	40511733	CC	TT	1946853373
SNP_P4_75773_40512651	NC_021164.1	Ca_kabuli_chr05	40512651	AA	GG	1946853375
SNP_P4_75774_40512655	NC_021164.1	Ca_kabuli_chr05	40512655	TT	CC	1946853377
SNP_P4_75776_40588196	NC_021164.1	Ca_kabuli_chr05	40588196	CC	TT	1946853380
SNP_P4_75777_40588315	NC_021164.1	Ca_kabuli_chr05	40588315	GG	AA	1946853382
SNP_P4_75778_40600636	NC_021164.1	Ca_kabuli_chr05	40600636	AA	GG	1946853384
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SNP_P4_75780_40600678	NC_021164.1	Ca_kabuli_chr05	40600678	TT	CC	1946853388
SNP_P4_75781_40601053	NC_021164.1	Ca_kabuli_chr05	40601053	TT	CC	1946853390
SNP_P4_75782_40604063	NC_021164.1	Ca_kabuli_chr05	40604063	GG	AA	1946853392
SNP_P4_75783_40604084	NC_021164.1	Ca_kabuli_chr05	40604084	AA	GG	1946853393
SNP_P4_75784_40604086	NC_021164.1	Ca_kabuli_chr05	40604086	CC	GG	1946853394
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SNP_P4_75789_40621176	NC_021164.1	Ca_kabuli_chr05	40621176	CC	TT	1946853397
SNP_P4_75790_40621181	NC_021164.1	Ca_kabuli_chr05	40621181	TT	GG	1946853398
SNP_P4_75791_40622102	NC_021164.1	Ca_kabuli_chr05	40622102	AA	GG	1946853399
SNP_P4_75792_40655503	NC_021164.1	Ca_kabuli_chr05	40655503	CC	TT	1946853400
SNP_P4_75793_40678876	NC_021164.1	Ca_kabuli_chr05	40678876	CC	AA	1946853401
SNP_P4_75794_40679031	NC_021164.1	Ca_kabuli_chr05	40679031	GG	AA	1946853403
SNP_P4_75796_40693966	NC_021164.1	Ca_kabuli_chr05	40693966	CC	TT	1946853405
SNP_P4_75798_40758814	NC_021164.1	Ca_kabuli_chr05	40758814	GG	AA	1946853407
SNP_P4_75799_40780636	NC_021164.1	Ca_kabuli_chr05	40780636	TT	CC	1946853409
SNP_P4_75802_40819772	NC_021164.1	Ca_kabuli_chr05	40819772	TT	CC	1946853411
SNP_P4_75803_40821108	NC_021164.1	Ca_kabuli_chr05	40821108	TT	GG	1946853414
SNP_P4_75804_40830148	NC_021164.1	Ca_kabuli_chr05	40830148	TT	CC	1946853416
SNP_P4_75805_40830163	NC_021164.1	Ca_kabuli_chr05	40830163	AA	GG	1946853418
SNP_P4_75806_40830167	NC_021164.1	Ca_kabuli_chr05	40830167	GG	AA	1946853420

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_75809_40835929	NC_021164.1	Ca_kabuli_chr05	40835929	AA	CC	1946853426
SNP_P4_75810_40854773	NC_021164.1	Ca_kabuli_chr05	40854773	TT	AA	1946853428
SNP_P4_75811_40858034	NC_021164.1	Ca_kabuli_chr05	40858034	GG	AA	1946853430
SNP_P4_75812_40858046	NC_021164.1	Ca_kabuli_chr05	40858046	AA	GG	1946853432
SNP_P4_75813_40858054	NC_021164.1	Ca_kabuli_chr05	40858054	GG	AA	1946853434
SNP_P4_75814_40858055	NC_021164.1	Ca_kabuli_chr05	40858055	TT	AA	1946853436
SNP_P4_75815_40858062	NC_021164.1	Ca_kabuli_chr05	40858062	AA	CC	1946853438
SNP_P4_75816_40858166	NC_021164.1	Ca_kabuli_chr05	40858166	AA	TT	1946853440
SNP_P4_75818_40904835	NC_021164.1	Ca_kabuli_chr05	40904835	TT	AA	1946853442
SNP_P4_75819_40907708	NC_021164.1	Ca_kabuli_chr05	40907708	AA	TT	1946853444
SNP_P4_75820_40907709	NC_021164.1	Ca_kabuli_chr05	40907709	AA	CC	1946853446
SNP_P4_75821_40917638	NC_021164.1	Ca_kabuli_chr05	40917638	TT	AA	1946853448
SNP_P4_75822_40946431	NC_021164.1	Ca_kabuli_chr05	40946431	AA	TT	1946853450
SNP_P4_75823_40946434	NC_021164.1	Ca_kabuli_chr05	40946434	AA	TT	1946853452
SNP_P4_75824_40946437	NC_021164.1	Ca_kabuli_chr05	40946437	AA	TT	1946853454
SNP_P4_75825_40951213	NC_021164.1	Ca_kabuli_chr05	40951213	AA	GG	1946853456
SNP_P4_75826_40973722	NC_021164.1	Ca_kabuli_chr05	40973722	AA	TT	1946853458
SNP_P4_75827_40991573	NC_021164.1	Ca_kabuli_chr05	40991573	AA	TT	1946853460
SNP_P4_75829_41164540	NC_021164.1	Ca_kabuli_chr05	41164540	AA	TT	1946853462
SNP_P4_75830_41166691	NC_021164.1	Ca_kabuli_chr05	41166691	GG	AA	1946853464
SNP_P4_75831_41173893	NC_021164.1	Ca_kabuli_chr05	41173893	GG	CC	1946853466
SNP_P4_75832_41186997	NC_021164.1	Ca_kabuli_chr05	41186997	TT	CC	1946853468
SNP_P4_75833_41190940	NC_021164.1	Ca_kabuli_chr05	41190940	AA	CC	1946853470
SNP_P4_75834_41190962	NC_021164.1	Ca_kabuli_chr05	41190962	AA	TT	1946853472
SNP_P4_75835_41191004	NC_021164.1	Ca_kabuli_chr05	41191004	CC	TT	1946853474
SNP_P4_75836_41191055	NC_021164.1	Ca_kabuli_chr05	41191055	GG	TT	1946853476
SNP_P4_75837_41191126	NC_021164.1	Ca_kabuli_chr05	41191126	GG	AA	1946853478
SNP_P4_75838_41191129	NC_021164.1	Ca_kabuli_chr05	41191129	AA	GG	1946853480
SNP_P4_75839_41191386	NC_021164.1	Ca_kabuli_chr05	41191386	GG	TT	1946853482
SNP_P4_75842_41257481	NC_021164.1	Ca_kabuli_chr05	41257481	AA	TT	1946853484
SNP_P4_75843_41257680	NC_021164.1	Ca_kabuli_chr05	41257680	TT	GG	1946853486
SNP_P4_75844_41259045	NC_021164.1	Ca_kabuli_chr05	41259045	AA	GG	1946853488
SNP_P4_75845_41279896	NC_021164.1	Ca_kabuli_chr05	41279896	GG	AA	1946853490
SNP_P4_75846_41318811	NC_021164.1	Ca_kabuli_chr05	41318811	TT	CC	1946853492
SNP_P4_75847_41318859	NC_021164.1	Ca_kabuli_chr05	41318859	CC	TT	1946853493
SNP_P4_75848_41319216	NC_021164.1	Ca_kabuli_chr05	41319216	CC	TT	1946853495
SNP_P4_75849_41334027	NC_021164.1	Ca_kabuli_chr05	41334027	GG	CC	1946853497
SNP_P4_75850_41334182	NC_021164.1	Ca_kabuli_chr05	41334182	TT	CC	1946853499
SNP_P4_75851_41337254	NC_021164.1	Ca_kabuli_chr05	41337254	GG	AA	1946853501
SNP_P4_75852_41337557	NC_021164.1	Ca_kabuli_chr05	41337557	TT	CC	1946853503

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_75854_41337674	NC_021164.1	Ca_kabuli_chr05	41337674	TT	AA	1946853507
SNP_P4_75855_41346009	NC_021164.1	Ca_kabuli_chr05	41346009	CC	TT	1946853509
SNP_P4_75856_41351148	NC_021164.1	Ca_kabuli_chr05	41351148	CC	TT	1946853511
SNP_P4_75857_41358333	NC_021164.1	Ca_kabuli_chr05	41358333	CC	TT	1946853513
SNP_P4_75858_41358604	NC_021164.1	Ca_kabuli_chr05	41358604	CC	TT	1946853515
SNP_P4_75859_41370878	NC_021164.1	Ca_kabuli_chr05	41370878	GG	AA	1946853517
SNP_P4_75860_41374172	NC_021164.1	Ca_kabuli_chr05	41374172	GG	TT	1946853519
SNP_P4_75862_41377727	NC_021164.1	Ca_kabuli_chr05	41377727	CC	TT	1946853521
SNP_P4_75863_41377735	NC_021164.1	Ca_kabuli_chr05	41377735	CC	TT	1946853523
SNP_P4_75864_41417493	NC_021164.1	Ca_kabuli_chr05	41417493	TT	AA	1946853525
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SNP_P4_75866_41419987	NC_021164.1	Ca_kabuli_chr05	41419987	TT	AA	1946853529
SNP_P4_75867_41422814	NC_021164.1	Ca_kabuli_chr05	41422814	AA	TT	1946853531
SNP_P4_75868_41422923	NC_021164.1	Ca_kabuli_chr05	41422923	TT	GG	1946853533
SNP_P4_75869_41422942	NC_021164.1	Ca_kabuli_chr05	41422942	CC	TT	1946853535
SNP_P4_75870_41422979	NC_021164.1	Ca_kabuli_chr05	41422979	TT	CC	1946853537
SNP_P4_75871_41423259	NC_021164.1	Ca_kabuli_chr05	41423259	CC	TT	1946853539
SNP_P4_75872_41423281	NC_021164.1	Ca_kabuli_chr05	41423281	CC	TT	1946853541
SNP_P4_75873_41423291	NC_021164.1	Ca_kabuli_chr05	41423291	CC	GG	1946853543
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SNP_P4_75876_41428708	NC_021164.1	Ca_kabuli_chr05	41428708	CC	TT	1946853547
SNP_P4_75878_41428757	NC_021164.1	Ca_kabuli_chr05	41428757	AA	TT	1946853549
SNP_P4_75880_41428873	NC_021164.1	Ca_kabuli_chr05	41428873	AA	GG	1946853551
SNP_P4_75881_41428877	NC_021164.1	Ca_kabuli_chr05	41428877	TT	AA	1946853553
SNP_P4_75883_41428996	NC_021164.1	Ca_kabuli_chr05	41428996	AA	GG	1946853555
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SNP_P4_75885_41429097	NC_021164.1	Ca_kabuli_chr05	41429097	AA	GG	1946853559
SNP_P4_75886_41429142	NC_021164.1	Ca_kabuli_chr05	41429142	GG	AA	1946853561
SNP_P4_75888_41437762	NC_021164.1	Ca_kabuli_chr05	41437762	CC	TT	1946853563
SNP_P4_75889_41438853	NC_021164.1	Ca_kabuli_chr05	41438853	TT	CC	1946853565
SNP_P4_75890_41460606	NC_021164.1	Ca_kabuli_chr05	41460606	AA	TT	1946853567
SNP_P4_75891_41460608	NC_021164.1	Ca_kabuli_chr05	41460608	GG	AA	1946853569
SNP_P4_75892_41460611	NC_021164.1	Ca_kabuli_chr05	41460611	GG	CC	1946853571
SNP_P4_75894_41463574	NC_021164.1	Ca_kabuli_chr05	41463574	TT	CC	1946853573
SNP_P4_75895_41467616	NC_021164.1	Ca_kabuli_chr05	41467616	CC	AA	1946853575
SNP_P4_75897_41467907	NC_021164.1	Ca_kabuli_chr05	41467907	AA	TT	1946853577
SNP_P4_75898_41467933	NC_021164.1	Ca_kabuli_chr05	41467933	TT	AA	1946853579
SNP_P4_75899_41467937	NC_021164.1	Ca_kabuli_chr05	41467937	CC	TT	1946853581
SNP_P4_75901_41468260	NC_021164.1	Ca_kabuli_chr05	41468260	AA	TT	1946853583
SNP_P4_75902_41468267	NC_021164.1	Ca_kabuli_chr05	41468267	AA	CC	1946853585
SNP_P4_75903_41468285	NC_021164.1	Ca_kabuli_chr05	41468285	GG	CC	1946853586

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_75905_41471490	NC_021164.1	Ca_kabuli_chr05	41471490	AA	TT	1946853588
SNP_P4_75906_41477660	NC_021164.1	Ca_kabuli_chr05	41477660	TT	CC	1946853589
SNP_P4_75907_41477692	NC_021164.1	Ca_kabuli_chr05	41477692	TT	GG	1946853591
SNP_P4_75910_41553033	NC_021164.1	Ca_kabuli_chr05	41553033	TT	CC	1946853593
SNP_P4_75911_41556074	NC_021164.1	Ca_kabuli_chr05	41556074	AA	GG	1946853595
SNP_P4_75912_41556282	NC_021164.1	Ca_kabuli_chr05	41556282	CC	TT	1946853597
SNP_P4_75913_41564254	NC_021164.1	Ca_kabuli_chr05	41564254	TT	AA	1946853599
SNP_P4_75914_41571463	NC_021164.1	Ca_kabuli_chr05	41571463	CC	TT	1946853601
SNP_P4_75915_41571468	NC_021164.1	Ca_kabuli_chr05	41571468	TT	AA	1946853603
SNP_P4_75916_41580496	NC_021164.1	Ca_kabuli_chr05	41580496	CC	AA	1946853605
SNP_P4_75917_41586247	NC_021164.1	Ca_kabuli_chr05	41586247	TT	CC	1946853607
SNP_P4_75919_41604861	NC_021164.1	Ca_kabuli_chr05	41604861	AA	GG	1946853609
SNP_P4_75920_41605212	NC_021164.1	Ca_kabuli_chr05	41605212	GG	AA	1946853611
SNP_P4_75921_41607844	NC_021164.1	Ca_kabuli_chr05	41607844	AA	TT	1946853613
SNP_P4_75922_41613728	NC_021164.1	Ca_kabuli_chr05	41613728	CC	GG	1946853614
SNP_P4_75924_41644262	NC_021164.1	Ca_kabuli_chr05	41644262	AA	GG	1946853616
SNP_P4_75925_41644340	NC_021164.1	Ca_kabuli_chr05	41644340	AA	GG	1946853618
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SNP_P4_75927_41645788	NC_021164.1	Ca_kabuli_chr05	41645788	TT	AA	1946853622
SNP_P4_75928_41645793	NC_021164.1	Ca_kabuli_chr05	41645793	CC	AA	1946853624
SNP_P4_75929_41645798	NC_021164.1	Ca_kabuli_chr05	41645798	CC	AA	1946853626
SNP_P4_75930_41646334	NC_021164.1	Ca_kabuli_chr05	41646334	CC	TT	1946853628
SNP_P4_75931_41646372	NC_021164.1	Ca_kabuli_chr05	41646372	AA	CC	1946853630
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SNP_P4_75937_41677816	NC_021164.1	Ca_kabuli_chr05	41677816	GG	AA	1946853641
SNP_P4_75938_41677928	NC_021164.1	Ca_kabuli_chr05	41677928	CC	AA	1946853643
SNP_P4_75939_41677966	NC_021164.1	Ca_kabuli_chr05	41677966	TT	GG	1946853645
SNP_P4_75940_41677967	NC_021164.1	Ca_kabuli_chr05	41677967	AA	TT	1946853646
SNP_P4_75941_41677979	NC_021164.1	Ca_kabuli_chr05	41677979	CC	AA	1946853648
SNP_P4_75942_41678072	NC_021164.1	Ca_kabuli_chr05	41678072	AA	TT	1946853650
SNP_P4_75944_41678164	NC_021164.1	Ca_kabuli_chr05	41678164	GG	AA	1946853652
SNP_P4_75945_41678192	NC_021164.1	Ca_kabuli_chr05	41678192	GG	AA	1946853654
SNP_P4_75946_41717317	NC_021164.1	Ca_kabuli_chr05	41717317	CC	TT	1946853656
SNP_P4_75947_41727327	NC_021164.1	Ca_kabuli_chr05	41727327	AA	GG	1946853658
SNP_P4_75950_41778523	NC_021164.1	Ca_kabuli_chr05	41778523	AA	GG	1946853660
SNP_P4_75951_41788093	NC_021164.1	Ca_kabuli_chr05	41788093	AA	CC	1946853662
SNP_P4_75952_41794813	NC_021164.1	Ca_kabuli_chr05	41794813	TT	GG	1946853664

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_75955_41795560	NC_021164.1	Ca_kabuli_chr05	41795560	CC	GG	1946853669
SNP_P4_75956_41795694	NC_021164.1	Ca_kabuli_chr05	41795694	GG	AA	1946853671
SNP_P4_75957_41795809	NC_021164.1	Ca_kabuli_chr05	41795809	CC	TT	1946853673
SNP_P4_75959_41797922	NC_021164.1	Ca_kabuli_chr05	41797922	GG	AA	1946853675
SNP_P4_75960_41800062	NC_021164.1	Ca_kabuli_chr05	41800062	AA	GG	1946853677
SNP_P4_75961_41812775	NC_021164.1	Ca_kabuli_chr05	41812775	GG	TT	1946853679
SNP_P4_75962_41813276	NC_021164.1	Ca_kabuli_chr05	41813276	CC	TT	1946853680
SNP_P4_75963_41813446	NC_021164.1	Ca_kabuli_chr05	41813446	AA	TT	1946853682
SNP_P4_75964_41831496	NC_021164.1	Ca_kabuli_chr05	41831496	GG	AA	1946853684
SNP_P4_75965_41832095	NC_021164.1	Ca_kabuli_chr05	41832095	CC	TT	1946853686
SNP_P4_75966_41896537	NC_021164.1	Ca_kabuli_chr05	41896537	CC	TT	1946853688
SNP_P4_75967_41915832	NC_021164.1	Ca_kabuli_chr05	41915832	AA	CC	1946853690
SNP_P4_75968_41915885	NC_021164.1	Ca_kabuli_chr05	41915885	AA	GG	1946853692
SNP_P4_75969_41915905	NC_021164.1	Ca_kabuli_chr05	41915905	AA	TT	1946853694
SNP_P4_75970_41922057	NC_021164.1	Ca_kabuli_chr05	41922057	AA	CC	1946853696
SNP_P4_75971_41967738	NC_021164.1	Ca_kabuli_chr05	41967738	GG	AA	1946853698
SNP_P4_75972_41981884	NC_021164.1	Ca_kabuli_chr05	41981884	TT	GG	1946853699
SNP_P4_75974_41992570	NC_021164.1	Ca_kabuli_chr05	41992570	GG	AA	1946853701
SNP_P4_75975_42014869	NC_021164.1	Ca_kabuli_chr05	42014869	AA	TT	1946853703
SNP_P4_75976_42026227	NC_021164.1	Ca_kabuli_chr05	42026227	AA	GG	1946853705
SNP_P4_75979_42081209	NC_021164.1	Ca_kabuli_chr05	42081209	AA	GG	1946853707
SNP_P4_75980_42081776	NC_021164.1	Ca_kabuli_chr05	42081776	TT	CC	1946853709
SNP_P4_75981_42081779	NC_021164.1	Ca_kabuli_chr05	42081779	TT	CC	1946853711
SNP_P4_75982_42096054	NC_021164.1	Ca_kabuli_chr05	42096054	TT	AA	1946853713
SNP_P4_75983_42096495	NC_021164.1	Ca_kabuli_chr05	42096495	CC	TT	1946853715
SNP_P4_75984_42129001	NC_021164.1	Ca_kabuli_chr05	42129001	TT	AA	1946853717
SNP_P4_75986_42133321	NC_021164.1	Ca_kabuli_chr05	42133321	TT	CC	1946853719
SNP_P4_75987_42135267	NC_021164.1	Ca_kabuli_chr05	42135267	GG	TT	1946853721
SNP_P4_75988_42136976	NC_021164.1	Ca_kabuli_chr05	42136976	GG	AA	1946853723
SNP_P4_75990_42146193	NC_021164.1	Ca_kabuli_chr05	42146193	AA	GG	1946853725
SNP_P4_75993_42219800	NC_021164.1	Ca_kabuli_chr05	42219800	TT	GG	1946853727
SNP_P4_75995_42245818	NC_021164.1	Ca_kabuli_chr05	42245818	TT	CC	1946853729
SNP_P4_75996_42245840	NC_021164.1	Ca_kabuli_chr05	42245840	CC	TT	1946853731
SNP_P4_75997_42245847	NC_021164.1	Ca_kabuli_chr05	42245847	AA	GG	1946853732
SNP_P4_75998_42245849	NC_021164.1	Ca_kabuli_chr05	42245849	GG	TT	1946853734
SNP_P4_75999_42246859	NC_021164.1	Ca_kabuli_chr05	42246859	GG	TT	1946853736
SNP_P4_76000_42248753	NC_021164.1	Ca_kabuli_chr05	42248753	CC	TT	1946853738
SNP_P4_76001_42299075	NC_021164.1	Ca_kabuli_chr05	42299075	GG	AA	1946853740
SNP_P4_76002_42317101	NC_021164.1	Ca_kabuli_chr05	42317101	CC	TT	1946853742
SNP_P4_76003_42317115	NC_021164.1	Ca_kabuli_chr05	42317115	GG	AA	1946853744

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_76006_42323884	NC_021164.1	Ca_kabuli_chr05	42323884	TT	GG	1946853747
SNP_P4_76007_42326427	NC_021164.1	Ca_kabuli_chr05	42326427	AA	GG	1946853749
SNP_P4_76008_42352576	NC_021164.1	Ca_kabuli_chr05	42352576	AA	TT	1946853751
SNP_P4_76009_42352577	NC_021164.1	Ca_kabuli_chr05	42352577	AA	CC	1946853753
SNP_P4_76010_42358115	NC_021164.1	Ca_kabuli_chr05	42358115	TT	AA	1946853755
SNP_P4_76012_42364843	NC_021164.1	Ca_kabuli_chr05	42364843	CC	TT	1946853757
SNP_P4_76013_42392510	NC_021164.1	Ca_kabuli_chr05	42392510	CC	AA	1946853759
SNP_P4_76014_42392566	NC_021164.1	Ca_kabuli_chr05	42392566	TT	CC	1946853761
SNP_P4_76015_42392616	NC_021164.1	Ca_kabuli_chr05	42392616	AA	GG	1946853763
SNP_P4_76016_42392768	NC_021164.1	Ca_kabuli_chr05	42392768	AA	TT	1946853765
SNP_P4_76017_42392942	NC_021164.1	Ca_kabuli_chr05	42392942	GG	CC	1946853767
SNP_P4_76018_42392954	NC_021164.1	Ca_kabuli_chr05	42392954	GG	AA	1946853769
SNP_P4_76019_42392962	NC_021164.1	Ca_kabuli_chr05	42392962	AA	TT	1946853771
SNP_P4_76020_42401688	NC_021164.1	Ca_kabuli_chr05	42401688	CC	TT	1946853773
SNP_P4_76021_42401965	NC_021164.1	Ca_kabuli_chr05	42401965	TT	CC	1946853775
SNP_P4_76022_42401983	NC_021164.1	Ca_kabuli_chr05	42401983	GG	AA	1946853777
SNP_P4_76023_42402006	NC_021164.1	Ca_kabuli_chr05	42402006	CC	TT	1946853779
SNP_P4_76026_42491641	NC_021164.1	Ca_kabuli_chr05	42491641	GG	AA	1946853781
SNP_P4_76027_42513147	NC_021164.1	Ca_kabuli_chr05	42513147	AA	TT	1946853783
SNP_P4_76028_42513149	NC_021164.1	Ca_kabuli_chr05	42513149	TT	CC	1946853785
SNP_P4_76029_42513806	NC_021164.1	Ca_kabuli_chr05	42513806	TT	AA	1946853787
SNP_P4_76032_42577897	NC_021164.1	Ca_kabuli_chr05	42577897	GG	AA	1946853789
SNP_P4_76034_42593363	NC_021164.1	Ca_kabuli_chr05	42593363	AA	CC	1946853791
SNP_P4_76036_42627458	NC_021164.1	Ca_kabuli_chr05	42627458	TT	CC	1946853793
SNP_P4_76038_42637712	NC_021164.1	Ca_kabuli_chr05	42637712	AA	GG	1946853795
SNP_P4_76040_42693011	NC_021164.1	Ca_kabuli_chr05	42693011	AA	GG	1946853797
SNP_P4_76041_42696579	NC_021164.1	Ca_kabuli_chr05	42696579	AA	GG	1946853799
SNP_P4_76042_42706002	NC_021164.1	Ca_kabuli_chr05	42706002	TT	CC	1946853801
SNP_P4_76043_42706006	NC_021164.1	Ca_kabuli_chr05	42706006	CC	TT	1946853803
SNP_P4_76044_42720153	NC_021164.1	Ca_kabuli_chr05	42720153	TT	CC	1946853805
SNP_P4_76045_42728112	NC_021164.1	Ca_kabuli_chr05	42728112	CC	TT	1946853807
SNP_P4_76046_42737401	NC_021164.1	Ca_kabuli_chr05	42737401	AA	TT	1946853809
SNP_P4_76047_42738682	NC_021164.1	Ca_kabuli_chr05	42738682	TT	CC	1946853811
SNP_P4_76048_42794032	NC_021164.1	Ca_kabuli_chr05	42794032	TT	CC	1946853813
SNP_P4_76050_42822489	NC_021164.1	Ca_kabuli_chr05	42822489	TT	CC	1946853814
SNP_P4_76051_42838374	NC_021164.1	Ca_kabuli_chr05	42838374	AA	TT	1946853816
SNP_P4_76052_42855627	NC_021164.1	Ca_kabuli_chr05	42855627	TT	CC	1946853818
SNP_P4_76053_42862826	NC_021164.1	Ca_kabuli_chr05	42862826	GG	TT	1946853820
SNP_P4_76055_42891049	NC_021164.1	Ca_kabuli_chr05	42891049	TT	AA	1946853822
SNP_P4_76056_42894438	NC_021164.1	Ca_kabuli_chr05	42894438	TT	AA	1946853824
SNP_P4_76058_42919871	NC_021164.1	Ca_kabuli_chr05	42919871	GG	AA	1946853826

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_76060_42920260	NC_021164.1	Ca_kabuli_chr05	42920260	GG	AA	1946853830
SNP_P4_76061_42921669	NC_021164.1	Ca_kabuli_chr05	42921669	TT	GG	1946853833
SNP_P4_76062_42924340	NC_021164.1	Ca_kabuli_chr05	42924340	GG	AA	1946853835
SNP_P4_76064_42965447	NC_021164.1	Ca_kabuli_chr05	42965447	CC	GG	1946853837
SNP_P4_76065_42965451	NC_021164.1	Ca_kabuli_chr05	42965451	AA	GG	1946853839
SNP_P4_76067_42992875	NC_021164.1	Ca_kabuli_chr05	42992875	CC	GG	1946853841
SNP_P4_76068_42996595	NC_021164.1	Ca_kabuli_chr05	42996595	GG	AA	1946853843
SNP_P4_76070_43030512	NC_021164.1	Ca_kabuli_chr05	43030512	TT	GG	1946853845
SNP_P4_76071_43030513	NC_021164.1	Ca_kabuli_chr05	43030513	TT	GG	1946853847
SNP_P4_76072_43051274	NC_021164.1	Ca_kabuli_chr05	43051274	CC	TT	1946853849
SNP_P4_76074_43162435	NC_021164.1	Ca_kabuli_chr05	43162435	TT	AA	1946853851
SNP_P4_76075_43162456	NC_021164.1	Ca_kabuli_chr05	43162456	CC	TT	1946853853
SNP_P4_76076_43162458	NC_021164.1	Ca_kabuli_chr05	43162458	AA	CC	1946853855
SNP_P4_76077_43162482	NC_021164.1	Ca_kabuli_chr05	43162482	TT	CC	1946853857
SNP_P4_76078_43162496	NC_021164.1	Ca_kabuli_chr05	43162496	TT	AA	1946853859
SNP_P4_76079_43162502	NC_021164.1	Ca_kabuli_chr05	43162502	TT	CC	1946853861
SNP_P4_76081_43180828	NC_021164.1	Ca_kabuli_chr05	43180828	TT	CC	1946853863
SNP_P4_76085_43319821	NC_021164.1	Ca_kabuli_chr05	43319821	TT	CC	1946853865
SNP_P4_76088_43367090	NC_021164.1	Ca_kabuli_chr05	43367090	AA	CC	1946853867
SNP_P4_76089_43367091	NC_021164.1	Ca_kabuli_chr05	43367091	AA	CC	1946853869
SNP_P4_76090_43372578	NC_021164.1	Ca_kabuli_chr05	43372578	AA	GG	1946853871
SNP_P4_76091_43404558	NC_021164.1	Ca_kabuli_chr05	43404558	CC	TT	1946853873
SNP_P4_76092_43405206	NC_021164.1	Ca_kabuli_chr05	43405206	AA	TT	1946853875
SNP_P4_76093_43408901	NC_021164.1	Ca_kabuli_chr05	43408901	CC	TT	1946853877
SNP_P4_76094_43442857	NC_021164.1	Ca_kabuli_chr05	43442857	GG	TT	1946853879
SNP_P4_76096_43473325	NC_021164.1	Ca_kabuli_chr05	43473325	TT	CC	1946853881
SNP_P4_76097_43480956	NC_021164.1	Ca_kabuli_chr05	43480956	GG	TT	1946853883
SNP_P4_76098_43481069	NC_021164.1	Ca_kabuli_chr05	43481069	TT	CC	1946853885
SNP_P4_76099_43481098	NC_021164.1	Ca_kabuli_chr05	43481098	AA	CC	1946853887
SNP_P4_76100_43481174	NC_021164.1	Ca_kabuli_chr05	43481174	GG	TT	1946853889
SNP_P4_76101_43481216	NC_021164.1	Ca_kabuli_chr05	43481216	GG	AA	1946853891
SNP_P4_76102_43481263	NC_021164.1	Ca_kabuli_chr05	43481263	CC	AA	1946853893
SNP_P4_76103_43481378	NC_021164.1	Ca_kabuli_chr05	43481378	GG	AA	1946853895
SNP_P4_76104_43481403	NC_021164.1	Ca_kabuli_chr05	43481403	GG	AA	1946853897
SNP_P4_76107_43495595	NC_021164.1	Ca_kabuli_chr05	43495595	AA	TT	1946853899
SNP_P4_76108_43504965	NC_021164.1	Ca_kabuli_chr05	43504965	CC	TT	1946853901
SNP_P4_76110_43550425	NC_021164.1	Ca_kabuli_chr05	43550425	CC	AA	1946853903
SNP_P4_76111_43574420	NC_021164.1	Ca_kabuli_chr05	43574420	TT	AA	1946853905
SNP_P4_76113_43575441	NC_021164.1	Ca_kabuli_chr05	43575441	GG	CC	1946853907
SNP_P4_76114_43582311	NC_021164.1	Ca_kabuli_chr05	43582311	CC	TT	1946853909
SNP_P4_76115_43588047	NC_021164.1	Ca_kabuli_chr05	43588047	TT	CC	1946853911

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_76117_43599558	NC_021164.1	Ca_kabuli_chr05	43599558	CC	TT	1946853915
SNP_P4_76118_43599709	NC_021164.1	Ca_kabuli_chr05	43599709	CC	TT	1946853917
SNP_P4_76120_43628991	NC_021164.1	Ca_kabuli_chr05	43628991	CC	TT	1946853919
SNP_P4_76121_43655801	NC_021164.1	Ca_kabuli_chr05	43655801	AA	TT	1946853921
SNP_P4_76123_43699250	NC_021164.1	Ca_kabuli_chr05	43699250	AA	GG	1946853923
SNP_P4_76124_43724398	NC_021164.1	Ca_kabuli_chr05	43724398	GG	AA	1946853924
SNP_P4_76125_43730636	NC_021164.1	Ca_kabuli_chr05	43730636	AA	TT	1946853926
SNP_P4_76127_43744483	NC_021164.1	Ca_kabuli_chr05	43744483	AA	TT	1946853928
SNP_P4_76130_43806706	NC_021164.1	Ca_kabuli_chr05	43806706	GG	CC	1946853930
SNP_P4_76132_43839357	NC_021164.1	Ca_kabuli_chr05	43839357	CC	TT	1946853932
SNP_P4_76139_43904849	NC_021164.1	Ca_kabuli_chr05	43904849	TT	CC	1946853934
SNP_P4_76140_43904871	NC_021164.1	Ca_kabuli_chr05	43904871	TT	CC	1946853936
SNP_P4_76141_43904941	NC_021164.1	Ca_kabuli_chr05	43904941	TT	GG	1946853938
SNP_P4_76142_43905103	NC_021164.1	Ca_kabuli_chr05	43905103	TT	CC	1946853940
SNP_P4_76143_43905233	NC_021164.1	Ca_kabuli_chr05	43905233	TT	CC	1946853942
SNP_P4_76144_43905274	NC_021164.1	Ca_kabuli_chr05	43905274	TT	AA	1946853944
SNP_P4_76145_43905358	NC_021164.1	Ca_kabuli_chr05	43905358	AA	GG	1946853946
SNP_P4_76146_43910241	NC_021164.1	Ca_kabuli_chr05	43910241	GG	AA	1946853948
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SNP_P4_76149_43918865	NC_021164.1	Ca_kabuli_chr05	43918865	AA	TT	1946853954
SNP_P4_76150_43918874	NC_021164.1	Ca_kabuli_chr05	43918874	GG	AA	1946853956
SNP_P4_76151_43918930	NC_021164.1	Ca_kabuli_chr05	43918930	GG	AA	1946853958
SNP_P4_76152_43918947	NC_021164.1	Ca_kabuli_chr05	43918947	CC	TT	1946853960
SNP_P4_76154_43919249	NC_021164.1	Ca_kabuli_chr05	43919249	TT	AA	1946853962
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SNP_P4_76156_43920256	NC_021164.1	Ca_kabuli_chr05	43920256	AA	TT	1946853966
SNP_P4_76157_43920269	NC_021164.1	Ca_kabuli_chr05	43920269	TT	CC	1946853969
SNP_P4_76158_43920275	NC_021164.1	Ca_kabuli_chr05	43920275	AA	GG	1946853971
SNP_P4_76159_43920637	NC_021164.1	Ca_kabuli_chr05	43920637	GG	CC	1946853973
SNP_P4_76160_43920639	NC_021164.1	Ca_kabuli_chr05	43920639	GG	AA	1946853975
SNP_P4_76161_43920646	NC_021164.1	Ca_kabuli_chr05	43920646	CC	TT	1946853977
SNP_P4_76162_43920658	NC_021164.1	Ca_kabuli_chr05	43920658	AA	GG	1946853979
SNP_P4_76163_43920662	NC_021164.1	Ca_kabuli_chr05	43920662	CC	TT	1946853981
SNP_P4_76164_43920724	NC_021164.1	Ca_kabuli_chr05	43920724	AA	GG	1946853983
SNP_P4_76165_43920732	NC_021164.1	Ca_kabuli_chr05	43920732	TT	CC	1946853985
SNP_P4_76166_43920741	NC_021164.1	Ca_kabuli_chr05	43920741	AA	CC	1946853987
SNP_P4_76167_43920748	NC_021164.1	Ca_kabuli_chr05	43920748	AA	GG	1946853989
SNP_P4_76168_43920753	NC_021164.1	Ca_kabuli_chr05	43920753	CC	TT	1946853991
SNP_P4_76169_43920754	NC_021164.1	Ca_kabuli_chr05	43920754	CC	TT	1946853993
SNP_P4_76170_43920808	NC_021164.1	Ca_kabuli_chr05	43920808	AA	CC	1946853995

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_76173_43920890	NC_021164.1	Ca_kabuli_chr05	43920890	TT	AA	1946854001
SNP_P4_76174_43920929	NC_021164.1	Ca_kabuli_chr05	43920929	AA	GG	1946854003
SNP_P4_76175_43920993	NC_021164.1	Ca_kabuli_chr05	43920993	GG	TT	1946854005
SNP_P4_76176_43921026	NC_021164.1	Ca_kabuli_chr05	43921026	CC	TT	1946854007
SNP_P4_76177_43921030	NC_021164.1	Ca_kabuli_chr05	43921030	CC	AA	1946854009
SNP_P4_76178_43921062	NC_021164.1	Ca_kabuli_chr05	43921062	TT	AA	1946854011
SNP_P4_76179_43921068	NC_021164.1	Ca_kabuli_chr05	43921068	TT	CC	1946854013
SNP_P4_76180_43921284	NC_021164.1	Ca_kabuli_chr05	43921284	TT	CC	1946854015
SNP_P4_76181_43936519	NC_021164.1	Ca_kabuli_chr05	43936519	CC	TT	1946854017
SNP_P4_76183_43972577	NC_021164.1	Ca_kabuli_chr05	43972577	AA	TT	1946854019
SNP_P4_76184_44027348	NC_021164.1	Ca_kabuli_chr05	44027348	CC	TT	1946854021
SNP_P4_76185_44067565	NC_021164.1	Ca_kabuli_chr05	44067565	AA	CC	1946854023
SNP_P4_76186_44082396	NC_021164.1	Ca_kabuli_chr05	44082396	TT	CC	1946854025
SNP_P4_76187_44082401	NC_021164.1	Ca_kabuli_chr05	44082401	TT	GG	1946854027
SNP_P4_76189_44091932	NC_021164.1	Ca_kabuli_chr05	44091932	GG	AA	1946854029
SNP_P4_76190_44092959	NC_021164.1	Ca_kabuli_chr05	44092959	AA	GG	1946854031
SNP_P4_76191_44103804	NC_021164.1	Ca_kabuli_chr05	44103804	TT	AA	1946854033
SNP_P4_76192_44103813	NC_021164.1	Ca_kabuli_chr05	44103813	GG	AA	1946854035
SNP_P4_76194_44151692	NC_021164.1	Ca_kabuli_chr05	44151692	GG	AA	1946854037
SNP_P4_76197_44177885	NC_021164.1	Ca_kabuli_chr05	44177885	TT	CC	1946854039
SNP_P4_76198_44178154	NC_021164.1	Ca_kabuli_chr05	44178154	AA	GG	1946854041
SNP_P4_76199_44208018	NC_021164.1	Ca_kabuli_chr05	44208018	TT	CC	1946854043
SNP_P4_76200_44208728	NC_021164.1	Ca_kabuli_chr05	44208728	TT	CC	1946854045
SNP_P4_76201_44209044	NC_021164.1	Ca_kabuli_chr05	44209044	GG	AA	1946854047
SNP_P4_76202_44209053	NC_021164.1	Ca_kabuli_chr05	44209053	GG	AA	1946854049
SNP_P4_76203_44209146	NC_021164.1	Ca_kabuli_chr05	44209146	AA	GG	1946854051
SNP_P4_76204_44211645	NC_021164.1	Ca_kabuli_chr05	44211645	TT	CC	1946854053
SNP_P4_76205_44211648	NC_021164.1	Ca_kabuli_chr05	44211648	CC	TT	1946854055
SNP_P4_76206_44211667	NC_021164.1	Ca_kabuli_chr05	44211667	GG	AA	1946854057
SNP_P4_76207_44211673	NC_021164.1	Ca_kabuli_chr05	44211673	AA	GG	1946854059
SNP_P4_76208_44211701	NC_021164.1	Ca_kabuli_chr05	44211701	TT	GG	1946854061
SNP_P4_76209_44211706	NC_021164.1	Ca_kabuli_chr05	44211706	AA	GG	1946854063
SNP_P4_76210_44212038	NC_021164.1	Ca_kabuli_chr05	44212038	TT	CC	1946854065
SNP_P4_76211_44212501	NC_021164.1	Ca_kabuli_chr05	44212501	CC	AA	1946854067
SNP_P4_76212_44215439	NC_021164.1	Ca_kabuli_chr05	44215439	GG	CC	1946854069
SNP_P4_76213_44215471	NC_021164.1	Ca_kabuli_chr05	44215471	CC	TT	1946854071
SNP_P4_76215_44243876	NC_021164.1	Ca_kabuli_chr05	44243876	GG	AA	1946854073
SNP_P4_76217_44269323	NC_021164.1	Ca_kabuli_chr05	44269323	CC	TT	1946854075
SNP_P4_76218_44281953	NC_021164.1	Ca_kabuli_chr05	44281953	GG	TT	1946854077
SNP_P4_76219_44299261	NC_021164.1	Ca_kabuli_chr05	44299261	GG	CC	1946854079

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_76221_44400048	NC_021164.1	Ca_kabuli_chr05	44400048	GG	AA	1946854083
SNP_P4_76222_44411901	NC_021164.1	Ca_kabuli_chr05	44411901	TT	GG	1946854085
SNP_P4_76223_44454858	NC_021164.1	Ca_kabuli_chr05	44454858	TT	AA	1946854087
SNP_P4_76224_44454861	NC_021164.1	Ca_kabuli_chr05	44454861	CC	AA	1946854089
SNP_P4_76225_44476396	NC_021164.1	Ca_kabuli_chr05	44476396	AA	GG	1946854091
SNP_P4_76227_44528084	NC_021164.1	Ca_kabuli_chr05	44528084	TT	CC	1946854093
SNP_P4_76228_44592012	NC_021164.1	Ca_kabuli_chr05	44592012	TT	AA	1946854095
SNP_P4_76229_44592021	NC_021164.1	Ca_kabuli_chr05	44592021	GG	AA	1946854097
SNP_P4_76230_44592097	NC_021164.1	Ca_kabuli_chr05	44592097	CC	AA	1946854099
SNP_P4_76231_44596762	NC_021164.1	Ca_kabuli_chr05	44596762	TT	AA	1946854101
SNP_P4_76232_44596763	NC_021164.1	Ca_kabuli_chr05	44596763	TT	AA	1946854103
SNP_P4_76234_44596823	NC_021164.1	Ca_kabuli_chr05	44596823	TT	CC	1946854105
SNP_P4_76235_44596933	NC_021164.1	Ca_kabuli_chr05	44596933	AA	CC	1946854107
SNP_P4_76237_44597163	NC_021164.1	Ca_kabuli_chr05	44597163	TT	AA	1946854109
SNP_P4_76238_44597168	NC_021164.1	Ca_kabuli_chr05	44597168	CC	TT	1946854111
SNP_P4_76239_44597207	NC_021164.1	Ca_kabuli_chr05	44597207	TT	CC	1946854113
SNP_P4_76240_44597222	NC_021164.1	Ca_kabuli_chr05	44597222	TT	CC	1946854115
SNP_P4_76241_44670157	NC_021164.1	Ca_kabuli_chr05	44670157	GG	AA	1946854117
SNP_P4_76242_44674926	NC_021164.1	Ca_kabuli_chr05	44674926	CC	TT	1946854119
SNP_P4_76244_44744513	NC_021164.1	Ca_kabuli_chr05	44744513	AA	TT	1946854121
SNP_P4_76245_44744606	NC_021164.1	Ca_kabuli_chr05	44744606	AA	TT	1946854122
SNP_P4_76246_44775282	NC_021164.1	Ca_kabuli_chr05	44775282	TT	CC	1946854124
SNP_P4_76249_44830067	NC_021164.1	Ca_kabuli_chr05	44830067	AA	GG	1946854126
SNP_P4_76250_44844309	NC_021164.1	Ca_kabuli_chr05	44844309	AA	GG	1946854128
SNP_P4_76252_44844467	NC_021164.1	Ca_kabuli_chr05	44844467	CC	TT	1946854130
SNP_P4_76253_44906511	NC_021164.1	Ca_kabuli_chr05	44906511	TT	CC	1946854132
SNP_P4_76256_44947416	NC_021164.1	Ca_kabuli_chr05	44947416	CC	TT	1946854134
SNP_P4_76257_44966108	NC_021164.1	Ca_kabuli_chr05	44966108	TT	CC	1946854136
SNP_P4_76258_44967759	NC_021164.1	Ca_kabuli_chr05	44967759	TT	CC	1946854138
SNP_P4_76259_44988217	NC_021164.1	Ca_kabuli_chr05	44988217	TT	GG	1946854140
SNP_P4_76260_44999471	NC_021164.1	Ca_kabuli_chr05	44999471	TT	CC	1946854142
SNP_P4_76261_45000614	NC_021164.1	Ca_kabuli_chr05	45000614	CC	AA	1946854144
SNP_P4_76262_45016811	NC_021164.1	Ca_kabuli_chr05	45016811	TT	CC	1946854146
SNP_P4_76263_45053472	NC_021164.1	Ca_kabuli_chr05	45053472	GG	AA	1946854148
SNP_P4_76264_45085417	NC_021164.1	Ca_kabuli_chr05	45085417	TT	AA	1946854150
SNP_P4_76265_45086457	NC_021164.1	Ca_kabuli_chr05	45086457	AA	GG	1946854152
SNP_P4_76266_45086611	NC_021164.1	Ca_kabuli_chr05	45086611	AA	TT	1946854154
SNP_P4_76267_45086818	NC_021164.1	Ca_kabuli_chr05	45086818	CC	TT	1946854156
SNP_P4_76269_45087028	NC_021164.1	Ca_kabuli_chr05	45087028	CC	TT	1946854158
SNP_P4_76271_45094324	NC_021164.1	Ca_kabuli_chr05	45094324	TT	AA	1946854160
SNP_P4_76272_45094365	NC_021164.1	Ca_kabuli_chr05	45094365	CC	TT	1946854162

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_76275_45096272	NC_021164.1	Ca_kabuli_chr05	45096272	GG	AA	1946854166
SNP_P4_76276_45097448	NC_021164.1	Ca_kabuli_chr05	45097448	GG	AA	1946854168
SNP_P4_76278_45097741	NC_021164.1	Ca_kabuli_chr05	45097741	AA	CC	1946854170
SNP_P4_76279_45097789	NC_021164.1	Ca_kabuli_chr05	45097789	TT	AA	1946854172
SNP_P4_76281_45098312	NC_021164.1	Ca_kabuli_chr05	45098312	GG	AA	1946854174
SNP_P4_76282_45098420	NC_021164.1	Ca_kabuli_chr05	45098420	AA	GG	1946854176
SNP_P4_76283_45103704	NC_021164.1	Ca_kabuli_chr05	45103704	CC	TT	1946854178
SNP_P4_76284_45136528	NC_021164.1	Ca_kabuli_chr05	45136528	GG	AA	1946854180
SNP_P4_76285_45146936	NC_021164.1	Ca_kabuli_chr05	45146936	GG	AA	1946854182
SNP_P4_76286_45164377	NC_021164.1	Ca_kabuli_chr05	45164377	AA	GG	1946854184
SNP_P4_76287_45164386	NC_021164.1	Ca_kabuli_chr05	45164386	GG	AA	1946854186
SNP_P4_76289_45206277	NC_021164.1	Ca_kabuli_chr05	45206277	CC	GG	1946854188
SNP_P4_76290_45209560	NC_021164.1	Ca_kabuli_chr05	45209560	AA	GG	1946854190
SNP_P4_76291_45224851	NC_021164.1	Ca_kabuli_chr05	45224851	GG	TT	1946854192
SNP_P4_76292_45235849	NC_021164.1	Ca_kabuli_chr05	45235849	CC	TT	1946854194
SNP_P4_76293_45252849	NC_021164.1	Ca_kabuli_chr05	45252849	GG	AA	1946854196
SNP_P4_76294_45268005	NC_021164.1	Ca_kabuli_chr05	45268005	GG	TT	1946854198
SNP_P4_76296_45283373	NC_021164.1	Ca_kabuli_chr05	45283373	GG	TT	1946854200
SNP_P4_76298_45318637	NC_021164.1	Ca_kabuli_chr05	45318637	GG	AA	1946854201
SNP_P4_76299_45321277	NC_021164.1	Ca_kabuli_chr05	45321277	CC	GG	1946854203
SNP_P4_76302_45343670	NC_021164.1	Ca_kabuli_chr05	45343670	GG	AA	1946854205
SNP_P4_76303_45364920	NC_021164.1	Ca_kabuli_chr05	45364920	AA	CC	1946854207
SNP_P4_76304_45364922	NC_021164.1	Ca_kabuli_chr05	45364922	AA	GG	1946854209
SNP_P4_76307_45378468	NC_021164.1	Ca_kabuli_chr05	45378468	AA	GG	1946854211
SNP_P4_76308_45378469	NC_021164.1	Ca_kabuli_chr05	45378469	TT	GG	1946854213
SNP_P4_76309_45438815	NC_021164.1	Ca_kabuli_chr05	45438815	GG	AA	1946854215
SNP_P4_76310_45452444	NC_021164.1	Ca_kabuli_chr05	45452444	GG	AA	1946854217
SNP_P4_76311_45508712	NC_021164.1	Ca_kabuli_chr05	45508712	CC	TT	1946854219
SNP_P4_76312_45523534	NC_021164.1	Ca_kabuli_chr05	45523534	GG	AA	1946854221
SNP_P4_76315_45568825	NC_021164.1	Ca_kabuli_chr05	45568825	AA	CC	1946854223
SNP_P4_76316_45632695	NC_021164.1	Ca_kabuli_chr05	45632695	TT	CC	1946854225
SNP_P4_76317_45712070	NC_021164.1	Ca_kabuli_chr05	45712070	CC	TT	1946854227
SNP_P4_76318_45724499	NC_021164.1	Ca_kabuli_chr05	45724499	CC	AA	1946854229
SNP_P4_76320_45745864	NC_021164.1	Ca_kabuli_chr05	45745864	TT	CC	1946854231
SNP_P4_76321_45746955	NC_021164.1	Ca_kabuli_chr05	45746955	AA	CC	1946854233
SNP_P4_76323_45750181	NC_021164.1	Ca_kabuli_chr05	45750181	CC	GG	1946854235
SNP_P4_76324_45750222	NC_021164.1	Ca_kabuli_chr05	45750222	AA	GG	1946854238
SNP_P4_76325_45760127	NC_021164.1	Ca_kabuli_chr05	45760127	AA	TT	1946854240
SNP_P4_76326_45771267	NC_021164.1	Ca_kabuli_chr05	45771267	GG	AA	1946854242
SNP_P4_76327_45776450	NC_021164.1	Ca_kabuli_chr05	45776450	AA	GG	1946854244
SNP_P4_76328_45781044	NC_021164.1	Ca_kabuli_chr05	45781044	TT	AA	1946854246

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_76332_45795920	NC_021164.1	Ca_kabuli_chr05	45795920	AA	TT	1946854250
SNP_P4_76333_45816473	NC_021164.1	Ca_kabuli_chr05	45816473	CC	TT	1946854252
SNP_P4_76334_45821193	NC_021164.1	Ca_kabuli_chr05	45821193	AA	TT	1946854254
SNP_P4_76335_45851552	NC_021164.1	Ca_kabuli_chr05	45851552	GG	AA	1946854256
SNP_P4_76336_45880000	NC_021164.1	Ca_kabuli_chr05	45880000	GG	AA	1946854258
SNP_P4_76337_45881075	NC_021164.1	Ca_kabuli_chr05	45881075	CC	TT	1946854260
SNP_P4_76338_45897361	NC_021164.1	Ca_kabuli_chr05	45897361	AA	TT	1946854262
SNP_P4_76339_45929658	NC_021164.1	Ca_kabuli_chr05	45929658	GG	AA	1946854264
SNP_P4_76340_45959127	NC_021164.1	Ca_kabuli_chr05	45959127	TT	CC	1946854266
SNP_P4_76341_45963348	NC_021164.1	Ca_kabuli_chr05	45963348	TT	CC	1946854268
SNP_P4_76344_46034019	NC_021164.1	Ca_kabuli_chr05	46034019	TT	CC	1946854270
SNP_P4_76345_46034053	NC_021164.1	Ca_kabuli_chr05	46034053	AA	CC	1946854272
SNP_P4_76346_46041790	NC_021164.1	Ca_kabuli_chr05	46041790	AA	TT	1946854274
SNP_P4_76347_46041800	NC_021164.1	Ca_kabuli_chr05	46041800	CC	TT	1946854276
SNP_P4_76348_46054788	NC_021164.1	Ca_kabuli_chr05	46054788	AA	CC	1946854278
SNP_P4_76350_46091707	NC_021164.1	Ca_kabuli_chr05	46091707	AA	GG	1946854280
SNP_P4_76352_46122923	NC_021164.1	Ca_kabuli_chr05	46122923	CC	TT	1946854282
SNP_P4_76353_46122942	NC_021164.1	Ca_kabuli_chr05	46122942	TT	GG	1946854284
SNP_P4_76355_46189479	NC_021164.1	Ca_kabuli_chr05	46189479	CC	GG	1946854286
SNP_P4_76356_46201740	NC_021164.1	Ca_kabuli_chr05	46201740	AA	TT	1946854288
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SNP_P4_76358_46207871	NC_021164.1	Ca_kabuli_chr05	46207871	AA	TT	1946854292
SNP_P4_76359_46208242	NC_021164.1	Ca_kabuli_chr05	46208242	TT	GG	1946854294
SNP_P4_76360_46208381	NC_021164.1	Ca_kabuli_chr05	46208381	AA	TT	1946854296
SNP_P4_76362_46304727	NC_021164.1	Ca_kabuli_chr05	46304727	AA	GG	1946854298
SNP_P4_76364_46313281	NC_021164.1	Ca_kabuli_chr05	46313281	GG	CC	1946854300
SNP_P4_76366_46342586	NC_021164.1	Ca_kabuli_chr05	46342586	GG	AA	1946854302
SNP_P4_76367_46349093	NC_021164.1	Ca_kabuli_chr05	46349093	GG	AA	1946854304
SNP_P4_76369_46393283	NC_021164.1	Ca_kabuli_chr05	46393283	TT	CC	1946854306
SNP_P4_76371_46399854	NC_021164.1	Ca_kabuli_chr05	46399854	AA	GG	1946854308
SNP_P4_76372_46418383	NC_021164.1	Ca_kabuli_chr05	46418383	TT	CC	1946854310
SNP_P4_76374_46467297	NC_021164.1	Ca_kabuli_chr05	46467297	TT	CC	1946854312
SNP_P4_76375_46479583	NC_021164.1	Ca_kabuli_chr05	46479583	AA	GG	1946854314
SNP_P4_76376_46484334	NC_021164.1	Ca_kabuli_chr05	46484334	TT	CC	1946854316
SNP_P4_76377_46537018	NC_021164.1	Ca_kabuli_chr05	46537018	GG	TT	1946854318
SNP_P4_76380_46566358	NC_021164.1	Ca_kabuli_chr05	46566358	TT	CC	1946854320
SNP_P4_76381_46569569	NC_021164.1	Ca_kabuli_chr05	46569569	AA	TT	1946854322
SNP_P4_76382_46576527	NC_021164.1	Ca_kabuli_chr05	46576527	TT	CC	1946854324
SNP_P4_76383_46576530	NC_021164.1	Ca_kabuli_chr05	46576530	AA	GG	1946854326
SNP_P4_76384_46619279	NC_021164.1	Ca_kabuli_chr05	46619279	TT	GG	1946854328
SNP_P4_76385_46655029	NC_021164.1	Ca_kabuli_chr05	46655029	AA	TT	1946854329

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_76389_46718482	NC_021164.1	Ca_kabuli_chr05	46718482	CC	TT	1946854334
SNP_P4_76390_46768826	NC_021164.1	Ca_kabuli_chr05	46768826	GG	AA	1946854336
SNP_P4_76391_46807655	NC_021164.1	Ca_kabuli_chr05	46807655	TT	GG	1946854338
SNP_P4_76392_46821620	NC_021164.1	Ca_kabuli_chr05	46821620	CC	TT	1946854340
SNP_P4_76393_46835647	NC_021164.1	Ca_kabuli_chr05	46835647	AA	CC	1946854342
SNP_P4_76394_46850765	NC_021164.1	Ca_kabuli_chr05	46850765	TT	CC	1946854344
SNP_P4_76395_46860781	NC_021164.1	Ca_kabuli_chr05	46860781	GG	AA	1946854346
SNP_P4_76396_46870374	NC_021164.1	Ca_kabuli_chr05	46870374	TT	GG	1946854348
SNP_P4_76397_46870629	NC_021164.1	Ca_kabuli_chr05	46870629	CC	TT	1946854349
SNP_P4_76398_46871016	NC_021164.1	Ca_kabuli_chr05	46871016	AA	GG	1946854351
SNP_P4_76400_46880556	NC_021164.1	Ca_kabuli_chr05	46880556	GG	CC	1946854353
SNP_P4_76401_46886426	NC_021164.1	Ca_kabuli_chr05	46886426	AA	CC	1946854355
SNP_P4_76403_46889752	NC_021164.1	Ca_kabuli_chr05	46889752	AA	TT	1946854357
SNP_P4_76404_46906351	NC_021164.1	Ca_kabuli_chr05	46906351	GG	AA	1946854359
SNP_P4_76406_46923822	NC_021164.1	Ca_kabuli_chr05	46923822	CC	GG	1946854361
SNP_P4_76407_46944803	NC_021164.1	Ca_kabuli_chr05	46944803	TT	CC	1946854363
SNP_P4_76408_46944804	NC_021164.1	Ca_kabuli_chr05	46944804	GG	AA	1946854365
SNP_P4_76409_46945144	NC_021164.1	Ca_kabuli_chr05	46945144	GG	AA	1946854367
SNP_P4_76410_46945170	NC_021164.1	Ca_kabuli_chr05	46945170	CC	GG	1946854369
SNP_P4_76413_46986486	NC_021164.1	Ca_kabuli_chr05	46986486	TT	CC	1946854371
SNP_P4_76414_47000684	NC_021164.1	Ca_kabuli_chr05	47000684	GG	AA	1946854373
SNP_P4_76415_47011106	NC_021164.1	Ca_kabuli_chr05	47011106	GG	AA	1946854375
SNP_P4_76416_47032436	NC_021164.1	Ca_kabuli_chr05	47032436	GG	AA	1946854377
SNP_P4_76417_47084970	NC_021164.1	Ca_kabuli_chr05	47084970	CC	AA	1946854379
SNP_P4_76418_47106093	NC_021164.1	Ca_kabuli_chr05	47106093	TT	CC	1946854381
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SNP_P4_76422_47156203	NC_021164.1	Ca_kabuli_chr05	47156203	GG	TT	1946854385
SNP_P4_76423_47160777	NC_021164.1	Ca_kabuli_chr05	47160777	CC	TT	1946854387
SNP_P4_76424_47162584	NC_021164.1	Ca_kabuli_chr05	47162584	TT	AA	1946854389
SNP_P4_76425_47176414	NC_021164.1	Ca_kabuli_chr05	47176414	AA	TT	1946854391
SNP_P4_76428_47267376	NC_021164.1	Ca_kabuli_chr05	47267376	AA	GG	1946854392
SNP_P4_76429_47268423	NC_021164.1	Ca_kabuli_chr05	47268423	TT	GG	1946854394
SNP_P4_76431_47272578	NC_021164.1	Ca_kabuli_chr05	47272578	GG	AA	1946854396
SNP_P4_76432_47275121	NC_021164.1	Ca_kabuli_chr05	47275121	CC	TT	1946854398
SNP_P4_76433_47275441	NC_021164.1	Ca_kabuli_chr05	47275441	TT	GG	1946854400
SNP_P4_76434_47281193	NC_021164.1	Ca_kabuli_chr05	47281193	CC	TT	1946854402
SNP_P4_76435_47291871	NC_021164.1	Ca_kabuli_chr05	47291871	GG	AA	1946854404
SNP_P4_76436_47304292	NC_021164.1	Ca_kabuli_chr05	47304292	CC	AA	1946854406
SNP_P4_76437_47345993	NC_021164.1	Ca_kabuli_chr05	47345993	TT	GG	1946854408
SNP_P4_76438_47361333	NC_021164.1	Ca_kabuli_chr05	47361333	TT	AA	1946854410
SNP_P4_76439_47404557	NC_021164.1	Ca_kabuli_chr05	47404557	GG	AA	1946854412

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_76441_47414454	NC_021164.1	Ca_kabuli_chr05	47414454	AA	GG	1946854416
SNP_P4_76442_47434915	NC_021164.1	Ca_kabuli_chr05	47434915	TT	CC	1946854418
SNP_P4_76443_47440540	NC_021164.1	Ca_kabuli_chr05	47440540	CC	TT	1946854420
SNP_P4_76444_47445494	NC_021164.1	Ca_kabuli_chr05	47445494	TT	CC	1946854422
SNP_P4_76445_47452299	NC_021164.1	Ca_kabuli_chr05	47452299	AA	GG	1946854424
SNP_P4_76446_47452668	NC_021164.1	Ca_kabuli_chr05	47452668	CC	TT	1946854426
SNP_P4_76447_47453352	NC_021164.1	Ca_kabuli_chr05	47453352	AA	TT	1946854428
SNP_P4_76448_47453425	NC_021164.1	Ca_kabuli_chr05	47453425	AA	CC	1946854430
SNP_P4_76449_47453577	NC_021164.1	Ca_kabuli_chr05	47453577	CC	TT	1946854432
SNP_P4_76450_47453607	NC_021164.1	Ca_kabuli_chr05	47453607	GG	AA	1946854434
SNP_P4_76451_47453628	NC_021164.1	Ca_kabuli_chr05	47453628	AA	CC	1946854436
SNP_P4_76452_47454950	NC_021164.1	Ca_kabuli_chr05	47454950	AA	TT	1946854438
SNP_P4_76453_47455240	NC_021164.1	Ca_kabuli_chr05	47455240	AA	CC	1946854440
SNP_P4_76454_47455301	NC_021164.1	Ca_kabuli_chr05	47455301	AA	TT	1946854442
SNP_P4_76455_47455417	NC_021164.1	Ca_kabuli_chr05	47455417	GG	AA	1946854444
SNP_P4_76456_47455473	NC_021164.1	Ca_kabuli_chr05	47455473	GG	AA	1946854446
SNP_P4_76457_47455494	NC_021164.1	Ca_kabuli_chr05	47455494	GG	CC	1946854448
SNP_P4_76458_47455509	NC_021164.1	Ca_kabuli_chr05	47455509	CC	TT	1946854450
SNP_P4_76459_47455513	NC_021164.1	Ca_kabuli_chr05	47455513	AA	TT	1946854452
SNP_P4_76460_47455554	NC_021164.1	Ca_kabuli_chr05	47455554	CC	TT	1946854454
SNP_P4_76461_47455562	NC_021164.1	Ca_kabuli_chr05	47455562	CC	TT	1946854456
SNP_P4_76462_47455565	NC_021164.1	Ca_kabuli_chr05	47455565	TT	AA	1946854458
SNP_P4_76463_47455578	NC_021164.1	Ca_kabuli_chr05	47455578	AA	TT	1946854460
SNP_P4_76466_47519942	NC_021164.1	Ca_kabuli_chr05	47519942	TT	AA	1946854462
SNP_P4_76467_47553736	NC_021164.1	Ca_kabuli_chr05	47553736	CC	TT	1946854464
SNP_P4_76468_47557859	NC_021164.1	Ca_kabuli_chr05	47557859	TT	GG	1946854466
SNP_P4_76469_47603590	NC_021164.1	Ca_kabuli_chr05	47603590	AA	GG	1946854468
SNP_P4_76471_47658499	NC_021164.1	Ca_kabuli_chr05	47658499	GG	CC	1946854470
SNP_P4_76472_47664967	NC_021164.1	Ca_kabuli_chr05	47664967	AA	GG	1946854472
SNP_P4_76475_47679005	NC_021164.1	Ca_kabuli_chr05	47679005	AA	TT	1946854474
SNP_P4_76479_47716515	NC_021164.1	Ca_kabuli_chr05	47716515	CC	TT	1946854476
SNP_P4_76480_47794704	NC_021164.1	Ca_kabuli_chr05	47794704	GG	CC	1946854478
SNP_P4_76481_47798022	NC_021164.1	Ca_kabuli_chr05	47798022	TT	AA	1946854480
SNP_P4_76484_47843390	NC_021164.1	Ca_kabuli_chr05	47843390	GG	AA	1946854482
SNP_P4_76485_47875330	NC_021164.1	Ca_kabuli_chr05	47875330	TT	CC	1946854484
SNP_P4_76486_47875332	NC_021164.1	Ca_kabuli_chr05	47875332	TT	CC	1946854486
SNP_P4_76487_47880836	NC_021164.1	Ca_kabuli_chr05	47880836	CC	TT	1946854488
SNP_P4_76488_47920819	NC_021164.1	Ca_kabuli_chr05	47920819	GG	CC	1946854490
SNP_P4_76489_47940050	NC_021164.1	Ca_kabuli_chr05	47940050	CC	TT	1946854492
SNP_P4_76491_47955297	NC_021164.1	Ca_kabuli_chr05	47955297	TT	AA	1946854494
SNP_P4_76492_47963230	NC_021164.1	Ca_kabuli_chr05	47963230	AA	TT	1946854495

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_76496_48022859	NC_021164.1	Ca_kabuli_chr05	48022859	CC	AA	1946854499
SNP_P4_76500_48122467	NC_021164.1	Ca_kabuli_chr05	48122467	AA	GG	1946854501
SNP_P4_76503_48156475	NC_021164.1	Ca_kabuli_chr05	48156475	CC	GG	1946854503
SNP_P4_76504_48156508	NC_021164.1	Ca_kabuli_chr05	48156508	GG	AA	1946854505
SNP_P4_76505_48156531	NC_021164.1	Ca_kabuli_chr05	48156531	CC	TT	1946854507
SNP_P4_76506_48157292	NC_021164.1	Ca_kabuli_chr05	48157292	CC	TT	1946854509
SNP_P4_76507_48157630	NC_021164.1	Ca_kabuli_chr05	48157630	TT	AA	1946854511
SNP_P4_76508_48164369	NC_021164.1	Ca_kabuli_chr05	48164369	AA	GG	1946854513
SNP_P4_76510_23921	NC_021165.1	Ca_kabuli_chr06	23921	GG	TT	1946854515
SNP_P4_76512_59447	NC_021165.1	Ca_kabuli_chr06	59447	TT	GG	1946854517
SNP_P4_76514_99026	NC_021165.1	Ca_kabuli_chr06	99026	GG	AA	1946854519
SNP_P4_76515_99075	NC_021165.1	Ca_kabuli_chr06	99075	TT	CC	1946854521
SNP_P4_76516_99079	NC_021165.1	Ca_kabuli_chr06	99079	CC	TT	1946854523
SNP_P4_76517_112807	NC_021165.1	Ca_kabuli_chr06	112807	AA	GG	1946854525
SNP_P4_76518_112843	NC_021165.1	Ca_kabuli_chr06	112843	TT	GG	1946854527
SNP_P4_76519_112866	NC_021165.1	Ca_kabuli_chr06	112866	CC	AA	1946854529
SNP_P4_76521_113047	NC_021165.1	Ca_kabuli_chr06	113047	CC	TT	1946854530
SNP_P4_76522_113115	NC_021165.1	Ca_kabuli_chr06	113115	AA	GG	1946854532
SNP_P4_76523_113186	NC_021165.1	Ca_kabuli_chr06	113186	AA	GG	1946854534
SNP_P4_76524_113222	NC_021165.1	Ca_kabuli_chr06	113222	TT	CC	1946854536
SNP_P4_76525_113251	NC_021165.1	Ca_kabuli_chr06	113251	AA	GG	1946854538
SNP_P4_76526_113252	NC_021165.1	Ca_kabuli_chr06	113252	AA	GG	1946854540
SNP_P4_76527_120177	NC_021165.1	Ca_kabuli_chr06	120177	CC	TT	1946854542
SNP_P4_76528_120278	NC_021165.1	Ca_kabuli_chr06	120278	CC	AA	1946854544
SNP_P4_76529_120556	NC_021165.1	Ca_kabuli_chr06	120556	CC	TT	1946854546
SNP_P4_76530_130698	NC_021165.1	Ca_kabuli_chr06	130698	AA	CC	1946854548
SNP_P4_76531_130986	NC_021165.1	Ca_kabuli_chr06	130986	AA	GG	1946854550
SNP_P4_76532_131003	NC_021165.1	Ca_kabuli_chr06	131003	TT	CC	1946854551
SNP_P4_76533_140816	NC_021165.1	Ca_kabuli_chr06	140816	AA	CC	1946854553
SNP_P4_76534_140820	NC_021165.1	Ca_kabuli_chr06	140820	GG	CC	1946854555
SNP_P4_76535_141275	NC_021165.1	Ca_kabuli_chr06	141275	CC	TT	1946854557
SNP_P4_76536_141892	NC_021165.1	Ca_kabuli_chr06	141892	AA	TT	1946854559
SNP_P4_76537_149089	NC_021165.1	Ca_kabuli_chr06	149089	AA	CC	1946854561
SNP_P4_76538_149103	NC_021165.1	Ca_kabuli_chr06	149103	TT	CC	1946854564
SNP_P4_76539_159091	NC_021165.1	Ca_kabuli_chr06	159091	TT	AA	1946854566
SNP_P4_76540_159101	NC_021165.1	Ca_kabuli_chr06	159101	CC	TT	1946854568
SNP_P4_76541_159117	NC_021165.1	Ca_kabuli_chr06	159117	AA	GG	1946854570
SNP_P4_76542_164338	NC_021165.1	Ca_kabuli_chr06	164338	CC	TT	1946854572
SNP_P4_76543_168226	NC_021165.1	Ca_kabuli_chr06	168226	TT	CC	1946854574
SNP_P4_76544_168229	NC_021165.1	Ca_kabuli_chr06	168229	TT	AA	1946854576
SNP_P4_76545_168291	NC_021165.1	Ca_kabuli_chr06	168291	TT	CC	1946854578

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_76550_204174	NC_021165.1	Ca_kabuli_chr06	204174	TT	CC	1946854581
SNP_P4_76551_204195	NC_021165.1	Ca_kabuli_chr06	204195	AA	CC	1946854583
SNP_P4_76554_252478	NC_021165.1	Ca_kabuli_chr06	252478	CC	TT	1946854585
SNP_P4_76556_260659	NC_021165.1	Ca_kabuli_chr06	260659	CC	TT	1946854587
SNP_P4_76557_281990	NC_021165.1	Ca_kabuli_chr06	281990	CC	TT	1946854589
SNP_P4_76558_310885	NC_021165.1	Ca_kabuli_chr06	310885	AA	GG	1946854591
SNP_P4_76559_328782	NC_021165.1	Ca_kabuli_chr06	328782	CC	TT	1946854593
SNP_P4_76561_354149	NC_021165.1	Ca_kabuli_chr06	354149	GG	AA	1946854595
SNP_P4_76562_356732	NC_021165.1	Ca_kabuli_chr06	356732	CC	TT	1946854597
SNP_P4_76563_398127	NC_021165.1	Ca_kabuli_chr06	398127	TT	GG	1946854599
SNP_P4_76565_418601	NC_021165.1	Ca_kabuli_chr06	418601	AA	GG	1946854601
SNP_P4_76566_423757	NC_021165.1	Ca_kabuli_chr06	423757	TT	AA	1946854602
SNP_P4_76568_438458	NC_021165.1	Ca_kabuli_chr06	438458	TT	CC	1946854604
SNP_P4_76572_474489	NC_021165.1	Ca_kabuli_chr06	474489	CC	AA	1946854606
SNP_P4_76573_530971	NC_021165.1	Ca_kabuli_chr06	530971	AA	GG	1946854608
SNP_P4_76574_563656	NC_021165.1	Ca_kabuli_chr06	563656	AA	TT	1946854610
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SNP_P4_76578_607995	NC_021165.1	Ca_kabuli_chr06	607995	GG	AA	1946854614
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SNP_P4_76586_720573	NC_021165.1	Ca_kabuli_chr06	720573	AA	CC	1946854622
SNP_P4_76587_745960	NC_021165.1	Ca_kabuli_chr06	745960	CC	GG	1946854624
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SNP_P4_76590_850859	NC_021165.1	Ca_kabuli_chr06	850859	TT	CC	1946854628
SNP_P4_76592_851070	NC_021165.1	Ca_kabuli_chr06	851070	TT	CC	1946854630
SNP_P4_76593_851212	NC_021165.1	Ca_kabuli_chr06	851212	CC	GG	1946854632
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SNP_P4_76595_897078	NC_021165.1	Ca_kabuli_chr06	897078	AA	GG	1946854635
SNP_P4_76596_912106	NC_021165.1	Ca_kabuli_chr06	912106	TT	AA	1946854637
SNP_P4_76597_924401	NC_021165.1	Ca_kabuli_chr06	924401	TT	GG	1946854639
SNP_P4_76599_943691	NC_021165.1	Ca_kabuli_chr06	943691	TT	CC	1946854641
SNP_P4_76600_974929	NC_021165.1	Ca_kabuli_chr06	974929	TT	CC	1946854643
SNP_P4_76601_982553	NC_021165.1	Ca_kabuli_chr06	982553	AA	GG	1946854645
SNP_P4_76602_982557	NC_021165.1	Ca_kabuli_chr06	982557	TT	GG	1946854647
SNP_P4_76603_988471	NC_021165.1	Ca_kabuli_chr06	988471	AA	CC	1946854649
SNP_P4_76604_1037641	NC_021165.1	Ca_kabuli_chr06	1037641	GG	AA	1946854651
SNP_P4_76605_1043823	NC_021165.1	Ca_kabuli_chr06	1043823	CC	TT	1946854653
SNP_P4_76608_1094916	NC_021165.1	Ca_kabuli_chr06	1094916	TT	CC	1946854655
SNP_P4_76609_1095172	NC_021165.1	Ca_kabuli_chr06	1095172	GG	AA	1946854657

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_76611_1125508	NC_021165.1	Ca_kabuli_chr06	1125508	AA	GG	1946854661
SNP_P4_76612_1127877	NC_021165.1	Ca_kabuli_chr06	1127877	GG	AA	1946854663
SNP_P4_76613_1129162	NC_021165.1	Ca_kabuli_chr06	1129162	AA	CC	1946854665
SNP_P4_76614_1142285	NC_021165.1	Ca_kabuli_chr06	1142285	TT	CC	1946854667
SNP_P4_76615_1142518	NC_021165.1	Ca_kabuli_chr06	1142518	AA	CC	1946854669
SNP_P4_76616_1175620	NC_021165.1	Ca_kabuli_chr06	1175620	GG	AA	1946854671
SNP_P4_76617_1175626	NC_021165.1	Ca_kabuli_chr06	1175626	TT	GG	1946854673
SNP_P4_76618_1175639	NC_021165.1	Ca_kabuli_chr06	1175639	TT	GG	1946854675
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SNP_P4_76620_1175648	NC_021165.1	Ca_kabuli_chr06	1175648	CC	TT	1946854679
SNP_P4_76621_1175719	NC_021165.1	Ca_kabuli_chr06	1175719	AA	CC	1946854681
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SNP_P4_76627_1175922	NC_021165.1	Ca_kabuli_chr06	1175922	AA	GG	1946854693
SNP_P4_76628_1176009	NC_021165.1	Ca_kabuli_chr06	1176009	CC	TT	1946854695
SNP_P4_76629_1176089	NC_021165.1	Ca_kabuli_chr06	1176089	TT	CC	1946854697
SNP_P4_76630_1176187	NC_021165.1	Ca_kabuli_chr06	1176187	TT	GG	1946854698
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SNP_P4_76636_1223491	NC_021165.1	Ca_kabuli_chr06	1223491	GG	TT	1946854706
SNP_P4_76637_1240421	NC_021165.1	Ca_kabuli_chr06	1240421	AA	TT	1946854708
SNP_P4_76638_1256228	NC_021165.1	Ca_kabuli_chr06	1256228	AA	TT	1946854710
SNP_P4_76641_1304687	NC_021165.1	Ca_kabuli_chr06	1304687	TT	AA	1946854712
SNP_P4_76642_1304691	NC_021165.1	Ca_kabuli_chr06	1304691	AA	CC	1946854714
SNP_P4_76643_1320838	NC_021165.1	Ca_kabuli_chr06	1320838	AA	TT	1946854716
SNP_P4_76644_1337230	NC_021165.1	Ca_kabuli_chr06	1337230	TT	CC	1946854718
SNP_P4_76646_1337445	NC_021165.1	Ca_kabuli_chr06	1337445	TT	CC	1946854720
SNP_P4_76647_1337697	NC_021165.1	Ca_kabuli_chr06	1337697	AA	TT	1946854722
SNP_P4_76648_1338910	NC_021165.1	Ca_kabuli_chr06	1338910	CC	AA	1946854724
SNP_P4_76649_1338986	NC_021165.1	Ca_kabuli_chr06	1338986	TT	CC	1946854726
SNP_P4_76650_1338999	NC_021165.1	Ca_kabuli_chr06	1338999	TT	GG	1946854728
SNP_P4_76651_1339002	NC_021165.1	Ca_kabuli_chr06	1339002	TT	GG	1946854730
SNP_P4_76652_1339013	NC_021165.1	Ca_kabuli_chr06	1339013	AA	GG	1946854732
SNP_P4_76653_1339024	NC_021165.1	Ca_kabuli_chr06	1339024	CC	TT	1946854734
SNP_P4_76654_1339032	NC_021165.1	Ca_kabuli_chr06	1339032	TT	GG	1946854736
SNP_P4_76655_1339034	NC_021165.1	Ca_kabuli_chr06	1339034	AA	CC	1946854738
SNP_P4_76656_1339083	NC_021165.1	Ca_kabuli_chr06	1339083	AA	GG	1946854740

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_76658_1339112	NC_021165.1	Ca_kabuli_chr06	1339112	CC	TT	1946854744
SNP_P4_76659_1339123	NC_021165.1	Ca_kabuli_chr06	1339123	CC	TT	1946854746
SNP_P4_76660_1339653	NC_021165.1	Ca_kabuli_chr06	1339653	AA	GG	1946854748
SNP_P4_76661_1339981	NC_021165.1	Ca_kabuli_chr06	1339981	TT	CC	1946854750
SNP_P4_76662_1340030	NC_021165.1	Ca_kabuli_chr06	1340030	TT	CC	1946854752
SNP_P4_76663_1343521	NC_021165.1	Ca_kabuli_chr06	1343521	AA	GG	1946854754
SNP_P4_76665_1344177	NC_021165.1	Ca_kabuli_chr06	1344177	TT	AA	1946854756
SNP_P4_76666_1345570	NC_021165.1	Ca_kabuli_chr06	1345570	CC	AA	1946854758
SNP_P4_76667_1348922	NC_021165.1	Ca_kabuli_chr06	1348922	AA	GG	1946854760
SNP_P4_76668_1348954	NC_021165.1	Ca_kabuli_chr06	1348954	TT	CC	1946854762
SNP_P4_76669_1349015	NC_021165.1	Ca_kabuli_chr06	1349015	TT	AA	1946854765
SNP_P4_76670_1349032	NC_021165.1	Ca_kabuli_chr06	1349032	GG	AA	1946854767
SNP_P4_76671_1349069	NC_021165.1	Ca_kabuli_chr06	1349069	GG	CC	1946854769
SNP_P4_76672_1349310	NC_021165.1	Ca_kabuli_chr06	1349310	CC	TT	1946854772
SNP_P4_76673_1349335	NC_021165.1	Ca_kabuli_chr06	1349335	TT	CC	1946854774
SNP_P4_76675_1349389	NC_021165.1	Ca_kabuli_chr06	1349389	GG	CC	1946854775
SNP_P4_76676_1349471	NC_021165.1	Ca_kabuli_chr06	1349471	AA	CC	1946854777
SNP_P4_76677_1349476	NC_021165.1	Ca_kabuli_chr06	1349476	CC	TT	1946854779
SNP_P4_76678_1349836	NC_021165.1	Ca_kabuli_chr06	1349836	CC	TT	1946854781
SNP_P4_76679_1349926	NC_021165.1	Ca_kabuli_chr06	1349926	TT	CC	1946854783
SNP_P4_76680_1350103	NC_021165.1	Ca_kabuli_chr06	1350103	TT	AA	1946854784
SNP_P4_76681_1350274	NC_021165.1	Ca_kabuli_chr06	1350274	TT	AA	1946854785
SNP_P4_76682_1350303	NC_021165.1	Ca_kabuli_chr06	1350303	GG	AA	1946854786
SNP_P4_76683_1350310	NC_021165.1	Ca_kabuli_chr06	1350310	AA	TT	1946854787
SNP_P4_76684_1350790	NC_021165.1	Ca_kabuli_chr06	1350790	TT	GG	1946854788
SNP_P4_76685_1350830	NC_021165.1	Ca_kabuli_chr06	1350830	AA	GG	1946854789
SNP_P4_76687_1350965	NC_021165.1	Ca_kabuli_chr06	1350965	GG	AA	1946854790
SNP_P4_76688_1351173	NC_021165.1	Ca_kabuli_chr06	1351173	GG	AA	1946854792
SNP_P4_76689_1351254	NC_021165.1	Ca_kabuli_chr06	1351254	CC	GG	1946854794
SNP_P4_76690_1351284	NC_021165.1	Ca_kabuli_chr06	1351284	AA	GG	1946854796
SNP_P4_76691_1351545	NC_021165.1	Ca_kabuli_chr06	1351545	CC	GG	1946854798
SNP_P4_76692_1353981	NC_021165.1	Ca_kabuli_chr06	1353981	CC	TT	1946854800
SNP_P4_76693_1354003	NC_021165.1	Ca_kabuli_chr06	1354003	TT	AA	1946854802
SNP_P4_76694_1354062	NC_021165.1	Ca_kabuli_chr06	1354062	GG	TT	1946854804
SNP_P4_76695_1354127	NC_021165.1	Ca_kabuli_chr06	1354127	GG	AA	1946854806
SNP_P4_76696_1354306	NC_021165.1	Ca_kabuli_chr06	1354306	AA	GG	1946854808
SNP_P4_76698_1354328	NC_021165.1	Ca_kabuli_chr06	1354328	CC	TT	1946854810
SNP_P4_76699_1354347	NC_021165.1	Ca_kabuli_chr06	1354347	GG	AA	1946854812
SNP_P4_76700_1354351	NC_021165.1	Ca_kabuli_chr06	1354351	CC	TT	1946854814
SNP_P4_76701_1354378	NC_021165.1	Ca_kabuli_chr06	1354378	AA	TT	1946854816
SNP_P4_76702_1354424	NC_021165.1	Ca_kabuli_chr06	1354424	CC	TT	1946854818

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_76704_1361976	NC_021165.1	Ca_kabuli_chr06	1361976	TT	CC	1946854823
SNP_P4_76705_1362233	NC_021165.1	Ca_kabuli_chr06	1362233	TT	CC	1946854825
SNP_P4_76706_1362261	NC_021165.1	Ca_kabuli_chr06	1362261	AA	CC	1946854827
SNP_P4_76707_1362309	NC_021165.1	Ca_kabuli_chr06	1362309	TT	GG	1946854829
SNP_P4_76708_1362354	NC_021165.1	Ca_kabuli_chr06	1362354	GG	AA	1946854831
SNP_P4_76709_1369758	NC_021165.1	Ca_kabuli_chr06	1369758	TT	CC	1946854834
SNP_P4_76710_1377886	NC_021165.1	Ca_kabuli_chr06	1377886	CC	TT	1946854836
SNP_P4_76711_1378156	NC_021165.1	Ca_kabuli_chr06	1378156	GG	AA	1946854838
SNP_P4_76712_1378234	NC_021165.1	Ca_kabuli_chr06	1378234	CC	AA	1946854840
SNP_P4_76713_1384524	NC_021165.1	Ca_kabuli_chr06	1384524	GG	AA	1946854842
SNP_P4_76714_1385002	NC_021165.1	Ca_kabuli_chr06	1385002	CC	GG	1946854844
SNP_P4_76715_1386891	NC_021165.1	Ca_kabuli_chr06	1386891	GG	AA	1946854846
SNP_P4_76716_1387280	NC_021165.1	Ca_kabuli_chr06	1387280	AA	TT	1946854848
SNP_P4_76717_1406259	NC_021165.1	Ca_kabuli_chr06	1406259	CC	GG	1946854850
SNP_P4_76718_1407868	NC_021165.1	Ca_kabuli_chr06	1407868	CC	TT	1946854852
SNP_P4_76719_1408251	NC_021165.1	Ca_kabuli_chr06	1408251	CC	GG	1946854854
SNP_P4_76720_1410138	NC_021165.1	Ca_kabuli_chr06	1410138	GG	AA	1946854856
SNP_P4_76721_1433416	NC_021165.1	Ca_kabuli_chr06	1433416	AA	CC	1946854858
SNP_P4_76722_1433419	NC_021165.1	Ca_kabuli_chr06	1433419	CC	GG	1946854860
SNP_P4_76723_1491398	NC_021165.1	Ca_kabuli_chr06	1491398	CC	TT	1946854862
SNP_P4_76724_1491403	NC_021165.1	Ca_kabuli_chr06	1491403	AA	GG	1946854864
SNP_P4_76725_1491472	NC_021165.1	Ca_kabuli_chr06	1491472	AA	CC	1946854866
SNP_P4_76726_1491501	NC_021165.1	Ca_kabuli_chr06	1491501	TT	AA	1946854868
SNP_P4_76727_1491597	NC_021165.1	Ca_kabuli_chr06	1491597	TT	CC	1946854870
SNP_P4_76728_1491610	NC_021165.1	Ca_kabuli_chr06	1491610	GG	AA	1946854872
SNP_P4_76729_1491673	NC_021165.1	Ca_kabuli_chr06	1491673	GG	CC	1946854874
SNP_P4_76730_1491729	NC_021165.1	Ca_kabuli_chr06	1491729	GG	TT	1946854876
SNP_P4_76731_1491748	NC_021165.1	Ca_kabuli_chr06	1491748	CC	TT	1946854878
SNP_P4_76732_1491780	NC_021165.1	Ca_kabuli_chr06	1491780	AA	GG	1946854880
SNP_P4_76733_1491810	NC_021165.1	Ca_kabuli_chr06	1491810	CC	TT	1946854882
SNP_P4_76734_1491856	NC_021165.1	Ca_kabuli_chr06	1491856	GG	AA	1946854884
SNP_P4_76735_1491865	NC_021165.1	Ca_kabuli_chr06	1491865	GG	AA	1946854886
SNP_P4_76736_1491885	NC_021165.1	Ca_kabuli_chr06	1491885	AA	TT	1946854888
SNP_P4_76738_1491957	NC_021165.1	Ca_kabuli_chr06	1491957	CC	TT	1946854890
SNP_P4_76739_1491999	NC_021165.1	Ca_kabuli_chr06	1491999	CC	AA	1946854892
SNP_P4_76740_1492011	NC_021165.1	Ca_kabuli_chr06	1492011	GG	AA	1946854894
SNP_P4_76741_1492061	NC_021165.1	Ca_kabuli_chr06	1492061	GG	AA	1946854896
SNP_P4_76742_1492064	NC_021165.1	Ca_kabuli_chr06	1492064	CC	AA	1946854898
SNP_P4_76743_1492142	NC_021165.1	Ca_kabuli_chr06	1492142	GG	TT	1946854900
SNP_P4_76744_1492144	NC_021165.1	Ca_kabuli_chr06	1492144	TT	AA	1946854901
SNP_P4_76745_1492171	NC_021165.1	Ca_kabuli_chr06	1492171	GG	AA	1946854903

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_76747_1492246	NC_021165.1	Ca_kabuli_chr06	1492246	AA	GG	1946854907
SNP_P4_76748_1492272	NC_021165.1	Ca_kabuli_chr06	1492272	TT	CC	1946854909
SNP_P4_76749_1492280	NC_021165.1	Ca_kabuli_chr06	1492280	TT	AA	1946854911
SNP_P4_76750_1492289	NC_021165.1	Ca_kabuli_chr06	1492289	AA	GG	1946854913
SNP_P4_76751_1492310	NC_021165.1	Ca_kabuli_chr06	1492310	CC	TT	1946854915
SNP_P4_76752_1492341	NC_021165.1	Ca_kabuli_chr06	1492341	CC	GG	1946854917
SNP_P4_76754_1492388	NC_021165.1	Ca_kabuli_chr06	1492388	CC	TT	1946854919
SNP_P4_76755_1492423	NC_021165.1	Ca_kabuli_chr06	1492423	GG	CC	1946854921
SNP_P4_76756_1492432	NC_021165.1	Ca_kabuli_chr06	1492432	CC	AA	1946854923
SNP_P4_76757_1492443	NC_021165.1	Ca_kabuli_chr06	1492443	GG	TT	1946854925
SNP_P4_76758_1492545	NC_021165.1	Ca_kabuli_chr06	1492545	TT	CC	1946854927
SNP_P4_76759_1492620	NC_021165.1	Ca_kabuli_chr06	1492620	AA	CC	1946854929
SNP_P4_76760_1492681	NC_021165.1	Ca_kabuli_chr06	1492681	AA	GG	1946854931
SNP_P4_76761_1492682	NC_021165.1	Ca_kabuli_chr06	1492682	CC	TT	1946854933
SNP_P4_76762_1492721	NC_021165.1	Ca_kabuli_chr06	1492721	AA	TT	1946854935
SNP_P4_76764_1492822	NC_021165.1	Ca_kabuli_chr06	1492822	GG	TT	1946854937
SNP_P4_76765_1492844	NC_021165.1	Ca_kabuli_chr06	1492844	CC	TT	1946854939
SNP_P4_76766_1492963	NC_021165.1	Ca_kabuli_chr06	1492963	CC	TT	1946854941
SNP_P4_76767_1497053	NC_021165.1	Ca_kabuli_chr06	1497053	TT	CC	1946854943
SNP_P4_76768_1505916	NC_021165.1	Ca_kabuli_chr06	1505916	AA	TT	1946854945
SNP_P4_76769_1506164	NC_021165.1	Ca_kabuli_chr06	1506164	AA	TT	1946854947
SNP_P4_76770_1506891	NC_021165.1	Ca_kabuli_chr06	1506891	AA	CC	1946854949
SNP_P4_76772_1515702	NC_021165.1	Ca_kabuli_chr06	1515702	TT	CC	1946854951
SNP_P4_76773_1516843	NC_021165.1	Ca_kabuli_chr06	1516843	AA	GG	1946854953
SNP_P4_76774_1516847	NC_021165.1	Ca_kabuli_chr06	1516847	TT	GG	1946854955
SNP_P4_76775_1516865	NC_021165.1	Ca_kabuli_chr06	1516865	TT	CC	1946854957
SNP_P4_76776_1516869	NC_021165.1	Ca_kabuli_chr06	1516869	TT	CC	1946854959
SNP_P4_76777_1516879	NC_021165.1	Ca_kabuli_chr06	1516879	TT	AA	1946854961
SNP_P4_76778_1540094	NC_021165.1	Ca_kabuli_chr06	1540094	TT	CC	1946854963
SNP_P4_76779_1540110	NC_021165.1	Ca_kabuli_chr06	1540110	AA	GG	1946854964
SNP_P4_76780_1540170	NC_021165.1	Ca_kabuli_chr06	1540170	AA	TT	1946854966
SNP_P4_76781_1540298	NC_021165.1	Ca_kabuli_chr06	1540298	CC	GG	1946854968
SNP_P4_76783_1540893	NC_021165.1	Ca_kabuli_chr06	1540893	CC	TT	1946854970
SNP_P4_76784_1541753	NC_021165.1	Ca_kabuli_chr06	1541753	GG	AA	1946854972
SNP_P4_76785_1541788	NC_021165.1	Ca_kabuli_chr06	1541788	TT	AA	1946854974
SNP_P4_76786_1541813	NC_021165.1	Ca_kabuli_chr06	1541813	AA	GG	1946854976
SNP_P4_76787_1542030	NC_021165.1	Ca_kabuli_chr06	1542030	AA	CC	1946854978
SNP_P4_76789_1542219	NC_021165.1	Ca_kabuli_chr06	1542219	TT	AA	1946854980
SNP_P4_76790_1542255	NC_021165.1	Ca_kabuli_chr06	1542255	AA	CC	1946854982
SNP_P4_76791_1542284	NC_021165.1	Ca_kabuli_chr06	1542284	CC	TT	1946854984
SNP_P4_76792_1542375	NC_021165.1	Ca_kabuli_chr06	1542375	TT	CC	1946854986

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_76794_1542456	NC_021165.1	Ca_kabuli_chr06	1542456	TT	CC	1946854990
SNP_P4_76795_1542665	NC_021165.1	Ca_kabuli_chr06	1542665	TT	AA	1946854992
SNP_P4_76796_1543767	NC_021165.1	Ca_kabuli_chr06	1543767	GG	AA	1946854994
SNP_P4_76797_1543768	NC_021165.1	Ca_kabuli_chr06	1543768	AA	GG	1946854996
SNP_P4_76798_1543785	NC_021165.1	Ca_kabuli_chr06	1543785	GG	AA	1946854998
SNP_P4_76799_1543802	NC_021165.1	Ca_kabuli_chr06	1543802	GG	AA	1946855000
SNP_P4_76800_1543865	NC_021165.1	Ca_kabuli_chr06	1543865	CC	TT	1946855002
SNP_P4_76801_1543943	NC_021165.1	Ca_kabuli_chr06	1543943	TT	AA	1946855004
SNP_P4_76802_1544021	NC_021165.1	Ca_kabuli_chr06	1544021	TT	GG	1946855006
SNP_P4_76803_1544036	NC_021165.1	Ca_kabuli_chr06	1544036	AA	TT	1946855008
SNP_P4_76804_1544135	NC_021165.1	Ca_kabuli_chr06	1544135	CC	TT	1946855010
SNP_P4_76805_1544281	NC_021165.1	Ca_kabuli_chr06	1544281	AA	GG	1946855012
SNP_P4_76806_1544283	NC_021165.1	Ca_kabuli_chr06	1544283	AA	TT	1946855014
SNP_P4_76807_1544395	NC_021165.1	Ca_kabuli_chr06	1544395	AA	CC	1946855016
SNP_P4_76808_1546010	NC_021165.1	Ca_kabuli_chr06	1546010	GG	AA	1946855018
SNP_P4_76809_1546034	NC_021165.1	Ca_kabuli_chr06	1546034	GG	AA	1946855020
SNP_P4_76810_1546056	NC_021165.1	Ca_kabuli_chr06	1546056	AA	TT	1946855022
SNP_P4_76811_1546108	NC_021165.1	Ca_kabuli_chr06	1546108	AA	TT	1946855024
SNP_P4_76812_1546563	NC_021165.1	Ca_kabuli_chr06	1546563	CC	TT	1946855026
SNP_P4_76813_1547355	NC_021165.1	Ca_kabuli_chr06	1547355	AA	GG	1946855028
SNP_P4_76814_1547764	NC_021165.1	Ca_kabuli_chr06	1547764	TT	CC	1946855030
SNP_P4_76815_1547784	NC_021165.1	Ca_kabuli_chr06	1547784	CC	TT	1946855032
SNP_P4_76816_1548128	NC_021165.1	Ca_kabuli_chr06	1548128	AA	TT	1946855034
SNP_P4_76817_1548667	NC_021165.1	Ca_kabuli_chr06	1548667	CC	TT	1946855036
SNP_P4_76818_1548721	NC_021165.1	Ca_kabuli_chr06	1548721	AA	GG	1946855038
SNP_P4_76819_1548907	NC_021165.1	Ca_kabuli_chr06	1548907	GG	TT	1946855040
SNP_P4_76820_1549266	NC_021165.1	Ca_kabuli_chr06	1549266	GG	AA	1946855042
SNP_P4_76821_1553689	NC_021165.1	Ca_kabuli_chr06	1553689	GG	TT	1946855044
SNP_P4_76822_1556050	NC_021165.1	Ca_kabuli_chr06	1556050	CC	AA	1946855046
SNP_P4_76823_1556067	NC_021165.1	Ca_kabuli_chr06	1556067	GG	AA	1946855048
SNP_P4_76825_1556407	NC_021165.1	Ca_kabuli_chr06	1556407	TT	CC	1946855050
SNP_P4_76826_1556427	NC_021165.1	Ca_kabuli_chr06	1556427	AA	CC	1946855052
SNP_P4_76827_1556434	NC_021165.1	Ca_kabuli_chr06	1556434	CC	TT	1946855054
SNP_P4_76828_1556538	NC_021165.1	Ca_kabuli_chr06	1556538	AA	GG	1946855056
SNP_P4_76829_1556565	NC_021165.1	Ca_kabuli_chr06	1556565	GG	AA	1946855058
SNP_P4_76830_1556618	NC_021165.1	Ca_kabuli_chr06	1556618	TT	CC	1946855060
SNP_P4_76831_1556629	NC_021165.1	Ca_kabuli_chr06	1556629	CC	AA	1946855062
SNP_P4_76832_1556677	NC_021165.1	Ca_kabuli_chr06	1556677	TT	CC	1946855064
SNP_P4_76834_1556885	NC_021165.1	Ca_kabuli_chr06	1556885	AA	TT	1946855066
SNP_P4_76835_1556938	NC_021165.1	Ca_kabuli_chr06	1556938	CC	TT	1946855068
SNP_P4_76836_1556939	NC_021165.1	Ca_kabuli_chr06	1556939	TT	AA	1946855070

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_76838_1557078	NC_021165.1	Ca_kabuli_chr06	1557078	GG	AA	1946855074
SNP_P4_76840_1557141	NC_021165.1	Ca_kabuli_chr06	1557141	AA	GG	1946855076
SNP_P4_76841_1557358	NC_021165.1	Ca_kabuli_chr06	1557358	GG	TT	1946855078
SNP_P4_76842_1557513	NC_021165.1	Ca_kabuli_chr06	1557513	CC	TT	1946855080
SNP_P4_76843_1557559	NC_021165.1	Ca_kabuli_chr06	1557559	TT	GG	1946855082
SNP_P4_76844_1557565	NC_021165.1	Ca_kabuli_chr06	1557565	CC	AA	1946855084
SNP_P4_76845_1557567	NC_021165.1	Ca_kabuli_chr06	1557567	CC	AA	1946855086
SNP_P4_76846_1557588	NC_021165.1	Ca_kabuli_chr06	1557588	AA	GG	1946855088
SNP_P4_76847_1557599	NC_021165.1	Ca_kabuli_chr06	1557599	CC	TT	1946855090
SNP_P4_76848_1557610	NC_021165.1	Ca_kabuli_chr06	1557610	TT	GG	1946855092
SNP_P4_76849_1557611	NC_021165.1	Ca_kabuli_chr06	1557611	CC	TT	1946855094
SNP_P4_76850_1557632	NC_021165.1	Ca_kabuli_chr06	1557632	AA	GG	1946855096
SNP_P4_76851_1557637	NC_021165.1	Ca_kabuli_chr06	1557637	GG	AA	1946855098
SNP_P4_76853_1559104	NC_021165.1	Ca_kabuli_chr06	1559104	TT	CC	1946855100
SNP_P4_76854_1559161	NC_021165.1	Ca_kabuli_chr06	1559161	TT	CC	1946855101
SNP_P4_76855_1559267	NC_021165.1	Ca_kabuli_chr06	1559267	CC	AA	1946855103
SNP_P4_76857_1559396	NC_021165.1	Ca_kabuli_chr06	1559396	GG	AA	1946855105
SNP_P4_76858_1559398	NC_021165.1	Ca_kabuli_chr06	1559398	AA	TT	1946855107
SNP_P4_76859_1559485	NC_021165.1	Ca_kabuli_chr06	1559485	TT	AA	1946855109
SNP_P4_76860_1559515	NC_021165.1	Ca_kabuli_chr06	1559515	CC	TT	1946855111
SNP_P4_76861_1559555	NC_021165.1	Ca_kabuli_chr06	1559555	GG	AA	1946855113
SNP_P4_76863_1559632	NC_021165.1	Ca_kabuli_chr06	1559632	AA	CC	1946855115
SNP_P4_76864_1559664	NC_021165.1	Ca_kabuli_chr06	1559664	AA	TT	1946855117
SNP_P4_76865_1559677	NC_021165.1	Ca_kabuli_chr06	1559677	TT	CC	1946855119
SNP_P4_76866_1559836	NC_021165.1	Ca_kabuli_chr06	1559836	GG	AA	1946855121
SNP_P4_76867_1559924	NC_021165.1	Ca_kabuli_chr06	1559924	GG	TT	1946855123
SNP_P4_76870_1560023	NC_021165.1	Ca_kabuli_chr06	1560023	CC	AA	1946855125
SNP_P4_76871_1561424	NC_021165.1	Ca_kabuli_chr06	1561424	CC	TT	1946855127
SNP_P4_76872_1596305	NC_021165.1	Ca_kabuli_chr06	1596305	TT	CC	1946855129
SNP_P4_76873_1599927	NC_021165.1	Ca_kabuli_chr06	1599927	TT	CC	1946855131
SNP_P4_76874_1599938	NC_021165.1	Ca_kabuli_chr06	1599938	CC	AA	1946855133
SNP_P4_76875_1600010	NC_021165.1	Ca_kabuli_chr06	1600010	GG	TT	1946855135
SNP_P4_76876_1600189	NC_021165.1	Ca_kabuli_chr06	1600189	AA	GG	1946855137
SNP_P4_76877_1600200	NC_021165.1	Ca_kabuli_chr06	1600200	AA	TT	1946855139
SNP_P4_76878_1622652	NC_021165.1	Ca_kabuli_chr06	1622652	AA	TT	1946855141
SNP_P4_76879_1625382	NC_021165.1	Ca_kabuli_chr06	1625382	GG	AA	1946855143
SNP_P4_76880_1625385	NC_021165.1	Ca_kabuli_chr06	1625385	AA	GG	1946855145
SNP_P4_76881_1625404	NC_021165.1	Ca_kabuli_chr06	1625404	AA	GG	1946855147
SNP_P4_76882_1625405	NC_021165.1	Ca_kabuli_chr06	1625405	CC	GG	1946855149
SNP_P4_76883_1625439	NC_021165.1	Ca_kabuli_chr06	1625439	TT	CC	1946855151
SNP_P4_76884_1625442	NC_021165.1	Ca_kabuli_chr06	1625442	TT	AA	1946855153

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_76886_1625631	NC_021165.1	Ca_kabuli_chr06	1625631	TT	AA	1946855157
SNP_P4_76887_1625842	NC_021165.1	Ca_kabuli_chr06	1625842	CC	AA	1946855159
SNP_P4_76888_1625887	NC_021165.1	Ca_kabuli_chr06	1625887	TT	AA	1946855161
SNP_P4_76890_1636974	NC_021165.1	Ca_kabuli_chr06	1636974	AA	GG	1946855163
SNP_P4_76891_1662479	NC_021165.1	Ca_kabuli_chr06	1662479	AA	GG	1946855165
SNP_P4_76892_1664731	NC_021165.1	Ca_kabuli_chr06	1664731	TT	CC	1946855167
SNP_P4_76893_1664738	NC_021165.1	Ca_kabuli_chr06	1664738	AA	GG	1946855169
SNP_P4_76894_1672973	NC_021165.1	Ca_kabuli_chr06	1672973	CC	TT	1946855171
SNP_P4_76895_1682018	NC_021165.1	Ca_kabuli_chr06	1682018	GG	TT	1946855173
SNP_P4_76896_1682060	NC_021165.1	Ca_kabuli_chr06	1682060	CC	TT	1946855174
SNP_P4_76897_1682076	NC_021165.1	Ca_kabuli_chr06	1682076	CC	TT	1946855176
SNP_P4_76898_1682101	NC_021165.1	Ca_kabuli_chr06	1682101	TT	CC	1946855178
SNP_P4_76899_1682105	NC_021165.1	Ca_kabuli_chr06	1682105	CC	TT	1946855180
SNP_P4_76900_1682193	NC_021165.1	Ca_kabuli_chr06	1682193	GG	AA	1946855182
SNP_P4_76901_1682198	NC_021165.1	Ca_kabuli_chr06	1682198	GG	AA	1946855184
SNP_P4_76902_1682204	NC_021165.1	Ca_kabuli_chr06	1682204	CC	TT	1946855186
SNP_P4_76903_1682219	NC_021165.1	Ca_kabuli_chr06	1682219	TT	CC	1946855188
SNP_P4_76904_1682227	NC_021165.1	Ca_kabuli_chr06	1682227	AA	CC	1946855190
SNP_P4_76905_1682289	NC_021165.1	Ca_kabuli_chr06	1682289	GG	AA	1946855192
SNP_P4_76906_1682390	NC_021165.1	Ca_kabuli_chr06	1682390	GG	TT	1946855195
SNP_P4_76907_1682439	NC_021165.1	Ca_kabuli_chr06	1682439	GG	AA	1946855197
SNP_P4_76908_1682491	NC_021165.1	Ca_kabuli_chr06	1682491	AA	CC	1946855199
SNP_P4_76909_1682552	NC_021165.1	Ca_kabuli_chr06	1682552	GG	AA	1946855201
SNP_P4_76910_1682576	NC_021165.1	Ca_kabuli_chr06	1682576	AA	GG	1946855203
SNP_P4_76911_1682599	NC_021165.1	Ca_kabuli_chr06	1682599	TT	AA	1946855205
SNP_P4_76912_1682602	NC_021165.1	Ca_kabuli_chr06	1682602	CC	TT	1946855207
SNP_P4_76913_1682622	NC_021165.1	Ca_kabuli_chr06	1682622	GG	AA	1946855209
SNP_P4_76914_1682693	NC_021165.1	Ca_kabuli_chr06	1682693	CC	TT	1946855211
SNP_P4_76916_1682756	NC_021165.1	Ca_kabuli_chr06	1682756	AA	GG	1946855213
SNP_P4_76917_1682769	NC_021165.1	Ca_kabuli_chr06	1682769	CC	TT	1946855215
SNP_P4_76918_1682790	NC_021165.1	Ca_kabuli_chr06	1682790	AA	GG	1946855217
SNP_P4_76919_1682807	NC_021165.1	Ca_kabuli_chr06	1682807	TT	CC	1946855220
SNP_P4_76920_1682836	NC_021165.1	Ca_kabuli_chr06	1682836	TT	CC	1946855222
SNP_P4_76921_1682862	NC_021165.1	Ca_kabuli_chr06	1682862	CC	TT	1946855224
SNP_P4_76922_1682920	NC_021165.1	Ca_kabuli_chr06	1682920	TT	CC	1946855226
SNP_P4_76923_1682921	NC_021165.1	Ca_kabuli_chr06	1682921	GG	AA	1946855228
SNP_P4_76924_1682965	NC_021165.1	Ca_kabuli_chr06	1682965	GG	AA	1946855230
SNP_P4_76925_1682967	NC_021165.1	Ca_kabuli_chr06	1682967	TT	AA	1946855232
SNP_P4_76926_1682968	NC_021165.1	Ca_kabuli_chr06	1682968	AA	TT	1946855234
SNP_P4_76927_1683003	NC_021165.1	Ca_kabuli_chr06	1683003	CC	TT	1946855236
SNP_P4_76928_1683033	NC_021165.1	Ca_kabuli_chr06	1683033	TT	CC	1946855238

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_76930_1683046	NC_021165.1	Ca_kabuli_chr06	1683046	AA	CC	1946855242
SNP_P4_76931_1683083	NC_021165.1	Ca_kabuli_chr06	1683083	GG	AA	1946855244
SNP_P4_76933_1683118	NC_021165.1	Ca_kabuli_chr06	1683118	TT	CC	1946855246
SNP_P4_76934_1683190	NC_021165.1	Ca_kabuli_chr06	1683190	CC	AA	1946855248
SNP_P4_76935_1683221	NC_021165.1	Ca_kabuli_chr06	1683221	TT	CC	1946855250
SNP_P4_76938_1683348	NC_021165.1	Ca_kabuli_chr06	1683348	GG	TT	1946855252
SNP_P4_76939_1683365	NC_021165.1	Ca_kabuli_chr06	1683365	TT	CC	1946855254
SNP_P4_76940_1683401	NC_021165.1	Ca_kabuli_chr06	1683401	CC	TT	1946855256
SNP_P4_76941_1683452	NC_021165.1	Ca_kabuli_chr06	1683452	CC	TT	1946855258
SNP_P4_76943_1683528	NC_021165.1	Ca_kabuli_chr06	1683528	AA	TT	1946855260
SNP_P4_76944_1683531	NC_021165.1	Ca_kabuli_chr06	1683531	GG	AA	1946855262
SNP_P4_76945_1683617	NC_021165.1	Ca_kabuli_chr06	1683617	GG	AA	1946855264
SNP_P4_76946_1683653	NC_021165.1	Ca_kabuli_chr06	1683653	AA	GG	1946855266
SNP_P4_76947_1683676	NC_021165.1	Ca_kabuli_chr06	1683676	TT	GG	1946855268
SNP_P4_76948_1683700	NC_021165.1	Ca_kabuli_chr06	1683700	AA	TT	1946855270
SNP_P4_76949_1683702	NC_021165.1	Ca_kabuli_chr06	1683702	GG	AA	1946855272
SNP_P4_76950_1697930	NC_021165.1	Ca_kabuli_chr06	1697930	TT	CC	1946855274
SNP_P4_76951_1722405	NC_021165.1	Ca_kabuli_chr06	1722405	CC	TT	1946855276
SNP_P4_76952_1722858	NC_021165.1	Ca_kabuli_chr06	1722858	GG	AA	1946855278
SNP_P4_76954_1747254	NC_021165.1	Ca_kabuli_chr06	1747254	GG	AA	1946855280
SNP_P4_76955_1747269	NC_021165.1	Ca_kabuli_chr06	1747269	AA	GG	1946855282
SNP_P4_76956_1767088	NC_021165.1	Ca_kabuli_chr06	1767088	AA	GG	1946855284
SNP_P4_76958_1773438	NC_021165.1	Ca_kabuli_chr06	1773438	CC	TT	1946855286
SNP_P4_76959_1774026	NC_021165.1	Ca_kabuli_chr06	1774026	TT	GG	1946855288
SNP_P4_76960_1782073	NC_021165.1	Ca_kabuli_chr06	1782073	CC	TT	1946855290
SNP_P4_76961_1786958	NC_021165.1	Ca_kabuli_chr06	1786958	GG	AA	1946855292
SNP_P4_76963_1793740	NC_021165.1	Ca_kabuli_chr06	1793740	TT	CC	1946855294
SNP_P4_76964_1800765	NC_021165.1	Ca_kabuli_chr06	1800765	GG	AA	1946855296
SNP_P4_76966_1802147	NC_021165.1	Ca_kabuli_chr06	1802147	TT	AA	1946855298
SNP_P4_76967_1803053	NC_021165.1	Ca_kabuli_chr06	1803053	AA	TT	1946855300
SNP_P4_76968_1803222	NC_021165.1	Ca_kabuli_chr06	1803222	CC	TT	1946855302
SNP_P4_76969_1803248	NC_021165.1	Ca_kabuli_chr06	1803248	TT	CC	1946855304
SNP_P4_76970_1803704	NC_021165.1	Ca_kabuli_chr06	1803704	AA	GG	1946855306
SNP_P4_76971_1804513	NC_021165.1	Ca_kabuli_chr06	1804513	CC	GG	1946855308
SNP_P4_76972_1804844	NC_021165.1	Ca_kabuli_chr06	1804844	TT	CC	1946855310
SNP_P4_76973_1807757	NC_021165.1	Ca_kabuli_chr06	1807757	GG	AA	1946855312
SNP_P4_76974_1808567	NC_021165.1	Ca_kabuli_chr06	1808567	CC	TT	1946855313
SNP_P4_76975_1808610	NC_021165.1	Ca_kabuli_chr06	1808610	AA	GG	1946855315
SNP_P4_76976_1809433	NC_021165.1	Ca_kabuli_chr06	1809433	TT	GG	1946855317
SNP_P4_76977_1809677	NC_021165.1	Ca_kabuli_chr06	1809677	AA	CC	1946855319
SNP_P4_76978_1809940	NC_021165.1	Ca_kabuli_chr06	1809940	TT	CC	1946855321

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_76980_1811162	NC_021165.1	Ca_kabuli_chr06	1811162	GG	AA	1946855325
SNP_P4_76981_1813819	NC_021165.1	Ca_kabuli_chr06	1813819	TT	CC	1946855327
SNP_P4_76982_1813984	NC_021165.1	Ca_kabuli_chr06	1813984	TT	CC	1946855329
SNP_P4_76984_1814155	NC_021165.1	Ca_kabuli_chr06	1814155	AA	TT	1946855331
SNP_P4_76985_1814251	NC_021165.1	Ca_kabuli_chr06	1814251	GG	AA	1946855333
SNP_P4_76986_1814273	NC_021165.1	Ca_kabuli_chr06	1814273	AA	CC	1946855335
SNP_P4_76987_1814947	NC_021165.1	Ca_kabuli_chr06	1814947	GG	AA	1946855337
SNP_P4_76988_1820614	NC_021165.1	Ca_kabuli_chr06	1820614	AA	CC	1946855339
SNP_P4_76989_1820938	NC_021165.1	Ca_kabuli_chr06	1820938	TT	AA	1946855341
SNP_P4_76990_1820952	NC_021165.1	Ca_kabuli_chr06	1820952	TT	CC	1946855343
SNP_P4_76991_1820958	NC_021165.1	Ca_kabuli_chr06	1820958	GG	AA	1946855345
SNP_P4_76992_1820966	NC_021165.1	Ca_kabuli_chr06	1820966	AA	GG	1946855347
SNP_P4_76993_1820991	NC_021165.1	Ca_kabuli_chr06	1820991	TT	CC	1946855349
SNP_P4_76994_1821009	NC_021165.1	Ca_kabuli_chr06	1821009	TT	CC	1946855351
SNP_P4_76995_1821037	NC_021165.1	Ca_kabuli_chr06	1821037	AA	GG	1946855353
SNP_P4_76996_1823496	NC_021165.1	Ca_kabuli_chr06	1823496	TT	AA	1946855355
SNP_P4_76997_1824006	NC_021165.1	Ca_kabuli_chr06	1824006	GG	AA	1946855357
SNP_P4_76998_1824026	NC_021165.1	Ca_kabuli_chr06	1824026	TT	GG	1946855359
SNP_P4_76999_1824305	NC_021165.1	Ca_kabuli_chr06	1824305	AA	GG	1946855361
SNP_P4_77000_1824306	NC_021165.1	Ca_kabuli_chr06	1824306	TT	CC	1946855363
SNP_P4_77002_1824365	NC_021165.1	Ca_kabuli_chr06	1824365	CC	TT	1946855365
SNP_P4_77003_1824639	NC_021165.1	Ca_kabuli_chr06	1824639	GG	AA	1946855367
SNP_P4_77005_1824663	NC_021165.1	Ca_kabuli_chr06	1824663	TT	AA	1946855369
SNP_P4_77006_1824711	NC_021165.1	Ca_kabuli_chr06	1824711	GG	CC	1946855371
SNP_P4_77008_1825126	NC_021165.1	Ca_kabuli_chr06	1825126	TT	CC	1946855373
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SNP_P4_77010_1825156	NC_021165.1	Ca_kabuli_chr06	1825156	AA	GG	1946855377
SNP_P4_77011_1825166	NC_021165.1	Ca_kabuli_chr06	1825166	AA	GG	1946855379
SNP_P4_77012_1825345	NC_021165.1	Ca_kabuli_chr06	1825345	CC	GG	1946855381
SNP_P4_77013_1825368	NC_021165.1	Ca_kabuli_chr06	1825368	GG	AA	1946855383
SNP_P4_77014_1825453	NC_021165.1	Ca_kabuli_chr06	1825453	GG	AA	1946855385
SNP_P4_77015_1828364	NC_021165.1	Ca_kabuli_chr06	1828364	TT	CC	1946855387
SNP_P4_77016_1828481	NC_021165.1	Ca_kabuli_chr06	1828481	GG	AA	1946855389
SNP_P4_77018_1829113	NC_021165.1	Ca_kabuli_chr06	1829113	AA	GG	1946855391
SNP_P4_77019_1829169	NC_021165.1	Ca_kabuli_chr06	1829169	CC	TT	1946855393
SNP_P4_77020_1829267	NC_021165.1	Ca_kabuli_chr06	1829267	GG	AA	1946855395
SNP_P4_77021_1829754	NC_021165.1	Ca_kabuli_chr06	1829754	AA	GG	1946855397
SNP_P4_77022_1829761	NC_021165.1	Ca_kabuli_chr06	1829761	AA	GG	1946855399
SNP_P4_77024_1831276	NC_021165.1	Ca_kabuli_chr06	1831276	AA	TT	1946855401
SNP_P4_77027_1831441	NC_021165.1	Ca_kabuli_chr06	1831441	TT	AA	1946855403
SNP_P4_77028_1831497	NC_021165.1	Ca_kabuli_chr06	1831497	CC	TT	1946855404

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_77030_1831541	NC_021165.1	Ca_kabuli_chr06	1831541	CC	TT	1946855408
SNP_P4_77031_1831561	NC_021165.1	Ca_kabuli_chr06	1831561	CC	GG	1946855410
SNP_P4_77032_1831574	NC_021165.1	Ca_kabuli_chr06	1831574	AA	GG	1946855412
SNP_P4_77033_1831581	NC_021165.1	Ca_kabuli_chr06	1831581	TT	CC	1946855414
SNP_P4_77034_1831584	NC_021165.1	Ca_kabuli_chr06	1831584	GG	AA	1946855416
SNP_P4_77035_1831591	NC_021165.1	Ca_kabuli_chr06	1831591	AA	GG	1946855418
SNP_P4_77036_1831658	NC_021165.1	Ca_kabuli_chr06	1831658	TT	CC	1946855420
SNP_P4_77037_1831710	NC_021165.1	Ca_kabuli_chr06	1831710	TT	GG	1946855422
SNP_P4_77038_1831797	NC_021165.1	Ca_kabuli_chr06	1831797	CC	TT	1946855424
SNP_P4_77039_1831803	NC_021165.1	Ca_kabuli_chr06	1831803	AA	GG	1946855426
SNP_P4_77040_1831805	NC_021165.1	Ca_kabuli_chr06	1831805	AA	GG	1946855428
SNP_P4_77041_1831818	NC_021165.1	Ca_kabuli_chr06	1831818	GG	TT	1946855430
SNP_P4_77042_1831826	NC_021165.1	Ca_kabuli_chr06	1831826	TT	CC	1946855432
SNP_P4_77043_1832027	NC_021165.1	Ca_kabuli_chr06	1832027	AA	TT	1946855434
SNP_P4_77045_1832762	NC_021165.1	Ca_kabuli_chr06	1832762	TT	AA	1946855436
SNP_P4_77047_1834124	NC_021165.1	Ca_kabuli_chr06	1834124	AA	CC	1946855438
SNP_P4_77049_1834335	NC_021165.1	Ca_kabuli_chr06	1834335	AA	TT	1946855440
SNP_P4_77050_1842924	NC_021165.1	Ca_kabuli_chr06	1842924	GG	AA	1946855442
SNP_P4_77051_1843115	NC_021165.1	Ca_kabuli_chr06	1843115	TT	CC	1946855444
SNP_P4_77052_1843173	NC_021165.1	Ca_kabuli_chr06	1843173	TT	AA	1946855446
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SNP_P4_77055_1843949	NC_021165.1	Ca_kabuli_chr06	1843949	TT	CC	1946855450
SNP_P4_77056_1843960	NC_021165.1	Ca_kabuli_chr06	1843960	TT	CC	1946855452
SNP_P4_77057_1846506	NC_021165.1	Ca_kabuli_chr06	1846506	AA	GG	1946855454
SNP_P4_77058_1846830	NC_021165.1	Ca_kabuli_chr06	1846830	GG	AA	1946855456
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SNP_P4_77061_1849780	NC_021165.1	Ca_kabuli_chr06	1849780	CC	TT	1946855460
SNP_P4_77062_1860421	NC_021165.1	Ca_kabuli_chr06	1860421	TT	CC	1946855462
SNP_P4_77063_1860720	NC_021165.1	Ca_kabuli_chr06	1860720	CC	AA	1946855464
SNP_P4_77064_1860881	NC_021165.1	Ca_kabuli_chr06	1860881	TT	CC	1946855466
SNP_P4_77065_1863821	NC_021165.1	Ca_kabuli_chr06	1863821	AA	GG	1946855468
SNP_P4_77066_1863829	NC_021165.1	Ca_kabuli_chr06	1863829	AA	GG	1946855470
SNP_P4_77067_1864154	NC_021165.1	Ca_kabuli_chr06	1864154	TT	CC	1946855472
SNP_P4_77069_1864171	NC_021165.1	Ca_kabuli_chr06	1864171	GG	AA	1946855474
SNP_P4_77070_1864833	NC_021165.1	Ca_kabuli_chr06	1864833	CC	TT	1946855476
SNP_P4_77071_1865032	NC_021165.1	Ca_kabuli_chr06	1865032	GG	TT	1946855478
SNP_P4_77072_1866100	NC_021165.1	Ca_kabuli_chr06	1866100	GG	AA	1946855480
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SNP_P4_77076_1866190	NC_021165.1	Ca_kabuli_chr06	1866190	AA	CC	1946855486
SNP_P4_77077_1866604	NC_021165.1	Ca_kabuli_chr06	1866604	AA	GG	1946855488

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_77080_1866984	NC_021165.1	Ca_kabuli_chr06	1866984	CC	AA	1946855492
SNP_P4_77083_1867039	NC_021165.1	Ca_kabuli_chr06	1867039	TT	CC	1946855494
SNP_P4_77084_1879482	NC_021165.1	Ca_kabuli_chr06	1879482	TT	GG	1946855496
SNP_P4_77085_1879855	NC_021165.1	Ca_kabuli_chr06	1879855	TT	GG	1946855498
SNP_P4_77086_1895505	NC_021165.1	Ca_kabuli_chr06	1895505	AA	CC	1946855500
SNP_P4_77088_1907631	NC_021165.1	Ca_kabuli_chr06	1907631	AA	GG	1946855502
SNP_P4_77089_1908069	NC_021165.1	Ca_kabuli_chr06	1908069	CC	TT	1946855504
SNP_P4_77090_1925114	NC_021165.1	Ca_kabuli_chr06	1925114	TT	CC	1946855506
SNP_P4_77092_1943184	NC_021165.1	Ca_kabuli_chr06	1943184	AA	GG	1946855508
SNP_P4_77093_1943348	NC_021165.1	Ca_kabuli_chr06	1943348	GG	AA	1946855510
SNP_P4_77095_1958924	NC_021165.1	Ca_kabuli_chr06	1958924	GG	AA	1946855512
SNP_P4_77096_1975396	NC_021165.1	Ca_kabuli_chr06	1975396	AA	GG	1946855514
SNP_P4_77097_1975397	NC_021165.1	Ca_kabuli_chr06	1975397	AA	GG	1946855516
SNP_P4_77101_1976791	NC_021165.1	Ca_kabuli_chr06	1976791	CC	AA	1946855518
SNP_P4_77102_1976795	NC_021165.1	Ca_kabuli_chr06	1976795	AA	TT	1946855520
SNP_P4_77103_1976815	NC_021165.1	Ca_kabuli_chr06	1976815	GG	TT	1946855522
SNP_P4_77104_1976884	NC_021165.1	Ca_kabuli_chr06	1976884	GG	AA	1946855524
SNP_P4_77105_1976911	NC_021165.1	Ca_kabuli_chr06	1976911	AA	GG	1946855526
SNP_P4_77106_1977015	NC_021165.1	Ca_kabuli_chr06	1977015	AA	TT	1946855528
SNP_P4_77107_1977026	NC_021165.1	Ca_kabuli_chr06	1977026	TT	AA	1946855530
SNP_P4_77109_1977439	NC_021165.1	Ca_kabuli_chr06	1977439	TT	GG	1946855532
SNP_P4_77110_1977482	NC_021165.1	Ca_kabuli_chr06	1977482	TT	CC	1946855534
SNP_P4_77111_1977499	NC_021165.1	Ca_kabuli_chr06	1977499	CC	AA	1946855536
SNP_P4_77112_1977508	NC_021165.1	Ca_kabuli_chr06	1977508	TT	CC	1946855538
SNP_P4_77113_1977552	NC_021165.1	Ca_kabuli_chr06	1977552	CC	AA	1946855540
SNP_P4_77114_1977604	NC_021165.1	Ca_kabuli_chr06	1977604	TT	CC	1946855542
SNP_P4_77115_1977620	NC_021165.1	Ca_kabuli_chr06	1977620	GG	AA	1946855544
SNP_P4_77117_1978383	NC_021165.1	Ca_kabuli_chr06	1978383	TT	CC	1946855546
SNP_P4_77118_1978421	NC_021165.1	Ca_kabuli_chr06	1978421	TT	CC	1946855548
SNP_P4_77119_1978444	NC_021165.1	Ca_kabuli_chr06	1978444	TT	CC	1946855550
SNP_P4_77120_1978531	NC_021165.1	Ca_kabuli_chr06	1978531	CC	AA	1946855552
SNP_P4_77121_1978557	NC_021165.1	Ca_kabuli_chr06	1978557	AA	CC	1946855554
SNP_P4_77122_1978629	NC_021165.1	Ca_kabuli_chr06	1978629	AA	GG	1946855556
SNP_P4_77123_1978642	NC_021165.1	Ca_kabuli_chr06	1978642	TT	CC	1946855558
SNP_P4_77124_1978750	NC_021165.1	Ca_kabuli_chr06	1978750	TT	CC	1946855560
SNP_P4_77125_1978792	NC_021165.1	Ca_kabuli_chr06	1978792	CC	GG	1946855562
SNP_P4_77126_1979293	NC_021165.1	Ca_kabuli_chr06	1979293	TT	CC	1946855564
SNP_P4_77127_1979294	NC_021165.1	Ca_kabuli_chr06	1979294	CC	AA	1946855566
SNP_P4_77128_1979295	NC_021165.1	Ca_kabuli_chr06	1979295	CC	TT	1946855568
SNP_P4_77129_1979296	NC_021165.1	Ca_kabuli_chr06	1979296	CC	TT	1946855570
SNP_P4_77130_1979297	NC_021165.1	Ca_kabuli_chr06	1979297	CC	GG	1946855572

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_77132_2002650	NC_021165.1	Ca_kabuli_chr06	2002650	TT	GG	1946855576
SNP_P4_77134_2031623	NC_021165.1	Ca_kabuli_chr06	2031623	AA	TT	1946855578
SNP_P4_77140_2153602	NC_021165.1	Ca_kabuli_chr06	2153602	AA	GG	1946855580
SNP_P4_77143_2221611	NC_021165.1	Ca_kabuli_chr06	2221611	CC	TT	1946855582
SNP_P4_77144_2231206	NC_021165.1	Ca_kabuli_chr06	2231206	TT	AA	1946855584
SNP_P4_77145_2231210	NC_021165.1	Ca_kabuli_chr06	2231210	AA	TT	1946855586
SNP_P4_77146_2233946	NC_021165.1	Ca_kabuli_chr06	2233946	GG	AA	1946855588
SNP_P4_77147_2241235	NC_021165.1	Ca_kabuli_chr06	2241235	GG	CC	1946855590
SNP_P4_77148_2250426	NC_021165.1	Ca_kabuli_chr06	2250426	AA	CC	1946855592
SNP_P4_77149_2257945	NC_021165.1	Ca_kabuli_chr06	2257945	GG	AA	1946855594
SNP_P4_77150_2272251	NC_021165.1	Ca_kabuli_chr06	2272251	AA	GG	1946855596
SNP_P4_77151_2272923	NC_021165.1	Ca_kabuli_chr06	2272923	GG	AA	1946855598
SNP_P4_77152_2307816	NC_021165.1	Ca_kabuli_chr06	2307816	AA	TT	1946855600
SNP_P4_77153_2323028	NC_021165.1	Ca_kabuli_chr06	2323028	AA	TT	1946855602
SNP_P4_77154_2323173	NC_021165.1	Ca_kabuli_chr06	2323173	CC	AA	1946855604
SNP_P4_77155_2329718	NC_021165.1	Ca_kabuli_chr06	2329718	AA	GG	1946855606
SNP_P4_77157_2342209	NC_021165.1	Ca_kabuli_chr06	2342209	TT	AA	1946855608
SNP_P4_77158_2374098	NC_021165.1	Ca_kabuli_chr06	2374098	TT	CC	1946855610
SNP_P4_77159_2374106	NC_021165.1	Ca_kabuli_chr06	2374106	AA	GG	1946855612
SNP_P4_77160_2374498	NC_021165.1	Ca_kabuli_chr06	2374498	AA	GG	1946855614
SNP_P4_77161_2374503	NC_021165.1	Ca_kabuli_chr06	2374503	TT	CC	1946855616
SNP_P4_77162_2374547	NC_021165.1	Ca_kabuli_chr06	2374547	TT	GG	1946855618
SNP_P4_77163_2378236	NC_021165.1	Ca_kabuli_chr06	2378236	TT	AA	1946855620
SNP_P4_77167_2392640	NC_021165.1	Ca_kabuli_chr06	2392640	CC	TT	1946855622
SNP_P4_77168_2392913	NC_021165.1	Ca_kabuli_chr06	2392913	AA	TT	1946855624
SNP_P4_77169_2392921	NC_021165.1	Ca_kabuli_chr06	2392921	CC	TT	1946855626
SNP_P4_77170_2433325	NC_021165.1	Ca_kabuli_chr06	2433325	CC	AA	1946855628
SNP_P4_77171_2435749	NC_021165.1	Ca_kabuli_chr06	2435749	GG	AA	1946855630
SNP_P4_77172_2436073	NC_021165.1	Ca_kabuli_chr06	2436073	AA	TT	1946855632
SNP_P4_77174_2504661	NC_021165.1	Ca_kabuli_chr06	2504661	AA	TT	1946855634
SNP_P4_77176_2514036	NC_021165.1	Ca_kabuli_chr06	2514036	AA	CC	1946855636
SNP_P4_77177_2514841	NC_021165.1	Ca_kabuli_chr06	2514841	GG	TT	1946855638
SNP_P4_77178_2514891	NC_021165.1	Ca_kabuli_chr06	2514891	GG	AA	1946855640
SNP_P4_77179_2514956	NC_021165.1	Ca_kabuli_chr06	2514956	GG	AA	1946855642
SNP_P4_77180_2515976	NC_021165.1	Ca_kabuli_chr06	2515976	TT	GG	1946855644
SNP_P4_77182_2516214	NC_021165.1	Ca_kabuli_chr06	2516214	CC	TT	1946855646
SNP_P4_77184_2518393	NC_021165.1	Ca_kabuli_chr06	2518393	CC	TT	1946855648
SNP_P4_77185_2518394	NC_021165.1	Ca_kabuli_chr06	2518394	GG	AA	1946855650
SNP_P4_77186_2518402	NC_021165.1	Ca_kabuli_chr06	2518402	TT	GG	1946855652
SNP_P4_77187_2518408	NC_021165.1	Ca_kabuli_chr06	2518408	GG	TT	1946855654
SNP_P4_77188_2518774	NC_021165.1	Ca_kabuli_chr06	2518774	TT	AA	1946855656

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_77191_2521824	NC_021165.1	Ca_kabuli_chr06	2521824	TT	GG	1946855659
SNP_P4_77192_2521876	NC_021165.1	Ca_kabuli_chr06	2521876	GG	TT	1946855661
SNP_P4_77193_2523028	NC_021165.1	Ca_kabuli_chr06	2523028	TT	GG	1946855663
SNP_P4_77195_2523275	NC_021165.1	Ca_kabuli_chr06	2523275	AA	TT	1946855665
SNP_P4_77196_2523302	NC_021165.1	Ca_kabuli_chr06	2523302	CC	GG	1946855667
SNP_P4_77198_2523387	NC_021165.1	Ca_kabuli_chr06	2523387	TT	AA	1946855669
SNP_P4_77199_2523493	NC_021165.1	Ca_kabuli_chr06	2523493	TT	AA	1946855671
SNP_P4_77200_2523495	NC_021165.1	Ca_kabuli_chr06	2523495	CC	TT	1946855673
SNP_P4_77201_2523780	NC_021165.1	Ca_kabuli_chr06	2523780	TT	AA	1946855675
SNP_P4_77202_2523929	NC_021165.1	Ca_kabuli_chr06	2523929	GG	AA	1946855677
SNP_P4_77203_2523959	NC_021165.1	Ca_kabuli_chr06	2523959	GG	TT	1946855679
SNP_P4_77204_2524211	NC_021165.1	Ca_kabuli_chr06	2524211	TT	CC	1946855681
SNP_P4_77205_2524236	NC_021165.1	Ca_kabuli_chr06	2524236	TT	GG	1946855683
SNP_P4_77206_2524240	NC_021165.1	Ca_kabuli_chr06	2524240	AA	GG	1946855685
SNP_P4_77207_2524256	NC_021165.1	Ca_kabuli_chr06	2524256	AA	GG	1946855687
SNP_P4_77208_2524594	NC_021165.1	Ca_kabuli_chr06	2524594	GG	AA	1946855688
SNP_P4_77211_2525711	NC_021165.1	Ca_kabuli_chr06	2525711	CC	AA	1946855689
SNP_P4_77212_2525978	NC_021165.1	Ca_kabuli_chr06	2525978	CC	AA	1946855690
SNP_P4_77213_2526080	NC_021165.1	Ca_kabuli_chr06	2526080	CC	TT	1946855691
SNP_P4_77214_2527272	NC_021165.1	Ca_kabuli_chr06	2527272	GG	AA	1946855692
SNP_P4_77215_2527304	NC_021165.1	Ca_kabuli_chr06	2527304	AA	GG	1946855694
SNP_P4_77216_2527308	NC_021165.1	Ca_kabuli_chr06	2527308	GG	AA	1946855696
SNP_P4_77217_2527331	NC_021165.1	Ca_kabuli_chr06	2527331	AA	GG	1946855698
SNP_P4_77218_2527335	NC_021165.1	Ca_kabuli_chr06	2527335	GG	AA	1946855700
SNP_P4_77219_2527497	NC_021165.1	Ca_kabuli_chr06	2527497	GG	AA	1946855702
SNP_P4_77220_2527768	NC_021165.1	Ca_kabuli_chr06	2527768	AA	GG	1946855704
SNP_P4_77222_2532441	NC_021165.1	Ca_kabuli_chr06	2532441	TT	CC	1946855706
SNP_P4_77223_2532458	NC_021165.1	Ca_kabuli_chr06	2532458	AA	TT	1946855708
SNP_P4_77224_2532467	NC_021165.1	Ca_kabuli_chr06	2532467	TT	CC	1946855710
SNP_P4_77225_2532661	NC_021165.1	Ca_kabuli_chr06	2532661	TT	GG	1946855712
SNP_P4_77226_2534361	NC_021165.1	Ca_kabuli_chr06	2534361	CC	TT	1946855714
SNP_P4_77227_2534367	NC_021165.1	Ca_kabuli_chr06	2534367	TT	AA	1946855716
SNP_P4_77228_2537134	NC_021165.1	Ca_kabuli_chr06	2537134	CC	AA	1946855718
SNP_P4_77229_2537410	NC_021165.1	Ca_kabuli_chr06	2537410	GG	TT	1946855720
SNP_P4_77230_2537441	NC_021165.1	Ca_kabuli_chr06	2537441	TT	CC	1946855722
SNP_P4_77231_2539071	NC_021165.1	Ca_kabuli_chr06	2539071	GG	CC	1946855724
SNP_P4_77232_2539104	NC_021165.1	Ca_kabuli_chr06	2539104	CC	TT	1946855726
SNP_P4_77233_2539207	NC_021165.1	Ca_kabuli_chr06	2539207	GG	CC	1946855728
SNP_P4_77234_2539263	NC_021165.1	Ca_kabuli_chr06	2539263	CC	TT	1946855730
SNP_P4_77235_2539272	NC_021165.1	Ca_kabuli_chr06	2539272	AA	TT	1946855732
SNP_P4_77236_2539461	NC_021165.1	Ca_kabuli_chr06	2539461	AA	TT	1946855735

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_77238_2539499	NC_021165.1	Ca_kabuli_chr06	2539499	AA	GG	1946855739
SNP_P4_77239_2539611	NC_021165.1	Ca_kabuli_chr06	2539611	CC	AA	1946855741
SNP_P4_77240_2539927	NC_021165.1	Ca_kabuli_chr06	2539927	AA	GG	1946855743
SNP_P4_77241_2541088	NC_021165.1	Ca_kabuli_chr06	2541088	TT	AA	1946855745
SNP_P4_77242_2541567	NC_021165.1	Ca_kabuli_chr06	2541567	TT	CC	1946855747
SNP_P4_77243_2541698	NC_021165.1	Ca_kabuli_chr06	2541698	AA	CC	1946855749
SNP_P4_77244_2541940	NC_021165.1	Ca_kabuli_chr06	2541940	TT	GG	1946855751
SNP_P4_77245_2543393	NC_021165.1	Ca_kabuli_chr06	2543393	CC	TT	1946855753
SNP_P4_77246_2543420	NC_021165.1	Ca_kabuli_chr06	2543420	AA	GG	1946855755
SNP_P4_77247_2543431	NC_021165.1	Ca_kabuli_chr06	2543431	TT	AA	1946855757
SNP_P4_77248_2543477	NC_021165.1	Ca_kabuli_chr06	2543477	GG	TT	1946855759
SNP_P4_77249_2543678	NC_021165.1	Ca_kabuli_chr06	2543678	TT	GG	1946855761
SNP_P4_77251_2549826	NC_021165.1	Ca_kabuli_chr06	2549826	GG	AA	1946855762
SNP_P4_77252_2557109	NC_021165.1	Ca_kabuli_chr06	2557109	TT	AA	1946855764
SNP_P4_77253_2565762	NC_021165.1	Ca_kabuli_chr06	2565762	TT	AA	1946855766
SNP_P4_77254_2565937	NC_021165.1	Ca_kabuli_chr06	2565937	GG	AA	1946855768
SNP_P4_77255_2572341	NC_021165.1	Ca_kabuli_chr06	2572341	AA	GG	1946855770
SNP_P4_77256_2574692	NC_021165.1	Ca_kabuli_chr06	2574692	CC	TT	1946855772
SNP_P4_77257_2578822	NC_021165.1	Ca_kabuli_chr06	2578822	GG	TT	1946855774
SNP_P4_77258_2583726	NC_021165.1	Ca_kabuli_chr06	2583726	AA	TT	1946855776
SNP_P4_77259_2596397	NC_021165.1	Ca_kabuli_chr06	2596397	TT	CC	1946855779
SNP_P4_77262_2647254	NC_021165.1	Ca_kabuli_chr06	2647254	AA	GG	1946855782
SNP_P4_77263_2652048	NC_021165.1	Ca_kabuli_chr06	2652048	CC	AA	1946855784
SNP_P4_77264_2662459	NC_021165.1	Ca_kabuli_chr06	2662459	GG	AA	1946855786
SNP_P4_77266_2665262	NC_021165.1	Ca_kabuli_chr06	2665262	GG	AA	1946855788
SNP_P4_77267_2674677	NC_021165.1	Ca_kabuli_chr06	2674677	GG	AA	1946855790
SNP_P4_77268_2674682	NC_021165.1	Ca_kabuli_chr06	2674682	AA	GG	1946855792
SNP_P4_77270_2675039	NC_021165.1	Ca_kabuli_chr06	2675039	TT	CC	1946855794
SNP_P4_77271_2675068	NC_021165.1	Ca_kabuli_chr06	2675068	AA	GG	1946855796
SNP_P4_77272_2683199	NC_021165.1	Ca_kabuli_chr06	2683199	AA	GG	1946855798
SNP_P4_77274_2699526	NC_021165.1	Ca_kabuli_chr06	2699526	GG	AA	1946855800
SNP_P4_77275_2713884	NC_021165.1	Ca_kabuli_chr06	2713884	TT	CC	1946855802
SNP_P4_77276_2713887	NC_021165.1	Ca_kabuli_chr06	2713887	TT	AA	1946855804
SNP_P4_77277_2727031	NC_021165.1	Ca_kabuli_chr06	2727031	CC	TT	1946855806
SNP_P4_77278_2727039	NC_021165.1	Ca_kabuli_chr06	2727039	GG	AA	1946855808
SNP_P4_77279_2727043	NC_021165.1	Ca_kabuli_chr06	2727043	TT	CC	1946855810
SNP_P4_77280_2733402	NC_021165.1	Ca_kabuli_chr06	2733402	CC	TT	1946855812
SNP_P4_77281_2746732	NC_021165.1	Ca_kabuli_chr06	2746732	GG	AA	1946855814
SNP_P4_77283_2753725	NC_021165.1	Ca_kabuli_chr06	2753725	AA	GG	1946855816
SNP_P4_77285_2783893	NC_021165.1	Ca_kabuli_chr06	2783893	AA	CC	1946855818
SNP_P4_77286_2806906	NC_021165.1	Ca_kabuli_chr06	2806906	AA	TT	1946855820

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_77289_2875000	NC_021165.1	Ca_kabuli_chr06	2875000	TT	CC	1946855824
SNP_P4_77290_2878656	NC_021165.1	Ca_kabuli_chr06	2878656	TT	AA	1946855826
SNP_P4_77291_2897277	NC_021165.1	Ca_kabuli_chr06	2897277	TT	AA	1946855828
SNP_P4_77292_2902621	NC_021165.1	Ca_kabuli_chr06	2902621	AA	GG	1946855830
SNP_P4_77293_2911905	NC_021165.1	Ca_kabuli_chr06	2911905	TT	CC	1946855832
SNP_P4_77294_2943606	NC_021165.1	Ca_kabuli_chr06	2943606	GG	AA	1946855834
SNP_P4_77295_2960747	NC_021165.1	Ca_kabuli_chr06	2960747	TT	CC	1946855836
SNP_P4_77296_2979643	NC_021165.1	Ca_kabuli_chr06	2979643	GG	AA	1946855838
SNP_P4_77297_3001580	NC_021165.1	Ca_kabuli_chr06	3001580	AA	GG	1946855840
SNP_P4_77298_3016003	NC_021165.1	Ca_kabuli_chr06	3016003	CC	TT	1946855842
SNP_P4_77300_3023166	NC_021165.1	Ca_kabuli_chr06	3023166	TT	CC	1946855844
SNP_P4_77301_3042039	NC_021165.1	Ca_kabuli_chr06	3042039	GG	CC	1946855846
SNP_P4_77302_3068169	NC_021165.1	Ca_kabuli_chr06	3068169	TT	CC	1946855848
SNP_P4_77304_3091334	NC_021165.1	Ca_kabuli_chr06	3091334	TT	CC	1946855850
SNP_P4_77306_3096293	NC_021165.1	Ca_kabuli_chr06	3096293	AA	GG	1946855852
SNP_P4_77307_3097631	NC_021165.1	Ca_kabuli_chr06	3097631	AA	GG	1946855855
SNP_P4_77308_3103939	NC_021165.1	Ca_kabuli_chr06	3103939	CC	TT	1946855857
SNP_P4_77309_3106978	NC_021165.1	Ca_kabuli_chr06	3106978	AA	CC	1946855859
SNP_P4_77311_3111026	NC_021165.1	Ca_kabuli_chr06	3111026	CC	TT	1946855861
SNP_P4_77312_3111776	NC_021165.1	Ca_kabuli_chr06	3111776	GG	AA	1946855863
SNP_P4_77313_3116643	NC_021165.1	Ca_kabuli_chr06	3116643	GG	AA	1946855865
SNP_P4_77314_3133180	NC_021165.1	Ca_kabuli_chr06	3133180	AA	TT	1946855867
SNP_P4_77315_3133202	NC_021165.1	Ca_kabuli_chr06	3133202	GG	AA	1946855869
SNP_P4_77316_3133209	NC_021165.1	Ca_kabuli_chr06	3133209	CC	AA	1946855871
SNP_P4_77317_3133237	NC_021165.1	Ca_kabuli_chr06	3133237	CC	AA	1946855873
SNP_P4_77318_3133253	NC_021165.1	Ca_kabuli_chr06	3133253	TT	GG	1946855875
SNP_P4_77319_3133298	NC_021165.1	Ca_kabuli_chr06	3133298	CC	GG	1946855877
SNP_P4_77320_3133876	NC_021165.1	Ca_kabuli_chr06	3133876	GG	AA	1946855879
SNP_P4_77321_3134224	NC_021165.1	Ca_kabuli_chr06	3134224	GG	AA	1946855881
SNP_P4_77322_3134251	NC_021165.1	Ca_kabuli_chr06	3134251	TT	CC	1946855883
SNP_P4_77323_3134295	NC_021165.1	Ca_kabuli_chr06	3134295	CC	AA	1946855885
SNP_P4_77324_3134310	NC_021165.1	Ca_kabuli_chr06	3134310	GG	AA	1946855887
SNP_P4_77325_3134311	NC_021165.1	Ca_kabuli_chr06	3134311	GG	AA	1946855889
SNP_P4_77326_3134345	NC_021165.1	Ca_kabuli_chr06	3134345	GG	AA	1946855891
SNP_P4_77327_3134348	NC_021165.1	Ca_kabuli_chr06	3134348	GG	TT	1946855893
SNP_P4_77328_3134353	NC_021165.1	Ca_kabuli_chr06	3134353	CC	GG	1946855895
SNP_P4_77329_3134383	NC_021165.1	Ca_kabuli_chr06	3134383	GG	TT	1946855896
SNP_P4_77330_3134384	NC_021165.1	Ca_kabuli_chr06	3134384	TT	GG	1946855898
SNP_P4_77331_3134405	NC_021165.1	Ca_kabuli_chr06	3134405	GG	AA	1946855900
SNP_P4_77332_3134416	NC_021165.1	Ca_kabuli_chr06	3134416	TT	CC	1946855902
SNP_P4_77333_3145623	NC_021165.1	Ca_kabuli_chr06	3145623	CC	AA	1946855904

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_77335_3158919	NC_021165.1	Ca_kabuli_chr06	3158919	TT	GG	1946855908
SNP_P4_77336_3160548	NC_021165.1	Ca_kabuli_chr06	3160548	CC	GG	1946855910
SNP_P4_77337_3162446	NC_021165.1	Ca_kabuli_chr06	3162446	GG	AA	1946855912
SNP_P4_77338_3164467	NC_021165.1	Ca_kabuli_chr06	3164467	TT	AA	1946855914
SNP_P4_77339_3164558	NC_021165.1	Ca_kabuli_chr06	3164558	AA	CC	1946855916
SNP_P4_77340_3164560	NC_021165.1	Ca_kabuli_chr06	3164560	GG	AA	1946855918
SNP_P4_77341_3165404	NC_021165.1	Ca_kabuli_chr06	3165404	GG	AA	1946855920
SNP_P4_77342_3165503	NC_021165.1	Ca_kabuli_chr06	3165503	TT	AA	1946855922
SNP_P4_77343_3165843	NC_021165.1	Ca_kabuli_chr06	3165843	TT	CC	1946855924
SNP_P4_77345_3166256	NC_021165.1	Ca_kabuli_chr06	3166256	AA	GG	1946855926
SNP_P4_77346_3166264	NC_021165.1	Ca_kabuli_chr06	3166264	GG	AA	1946855927
SNP_P4_77347_3166275	NC_021165.1	Ca_kabuli_chr06	3166275	TT	CC	1946855929
SNP_P4_77348_3166584	NC_021165.1	Ca_kabuli_chr06	3166584	GG	AA	1946855931
SNP_P4_77349_3166993	NC_021165.1	Ca_kabuli_chr06	3166993	GG	AA	1946855933
SNP_P4_77350_3167397	NC_021165.1	Ca_kabuli_chr06	3167397	TT	CC	1946855935
SNP_P4_77351_3167469	NC_021165.1	Ca_kabuli_chr06	3167469	TT	CC	1946855937
SNP_P4_77352_3167493	NC_021165.1	Ca_kabuli_chr06	3167493	AA	GG	1946855939
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SNP_P4_77354_3175525	NC_021165.1	Ca_kabuli_chr06	3175525	AA	CC	1946855943
SNP_P4_77355_3175668	NC_021165.1	Ca_kabuli_chr06	3175668	CC	TT	1946855945
SNP_P4_77356_3175694	NC_021165.1	Ca_kabuli_chr06	3175694	TT	CC	1946855947
SNP_P4_77357_3175780	NC_021165.1	Ca_kabuli_chr06	3175780	CC	AA	1946855948
SNP_P4_77358_3175788	NC_021165.1	Ca_kabuli_chr06	3175788	TT	AA	1946855950
SNP_P4_77360_3176058	NC_021165.1	Ca_kabuli_chr06	3176058	GG	TT	1946855952
SNP_P4_77361_3178925	NC_021165.1	Ca_kabuli_chr06	3178925	CC	TT	1946855954
SNP_P4_77362_3181435	NC_021165.1	Ca_kabuli_chr06	3181435	GG	AA	1946855956
SNP_P4_77364_3204319	NC_021165.1	Ca_kabuli_chr06	3204319	AA	GG	1946855958
SNP_P4_77365_3249230	NC_021165.1	Ca_kabuli_chr06	3249230	GG	AA	1946855960
SNP_P4_77366_3249288	NC_021165.1	Ca_kabuli_chr06	3249288	GG	AA	1946855962
SNP_P4_77367_3249488	NC_021165.1	Ca_kabuli_chr06	3249488	AA	CC	1946855964
SNP_P4_77368_3250008	NC_021165.1	Ca_kabuli_chr06	3250008	AA	GG	1946855966
SNP_P4_77369_3250130	NC_021165.1	Ca_kabuli_chr06	3250130	TT	GG	1946855968
SNP_P4_77370_3250138	NC_021165.1	Ca_kabuli_chr06	3250138	AA	GG	1946855970
SNP_P4_77371_3250221	NC_021165.1	Ca_kabuli_chr06	3250221	TT	GG	1946855972
SNP_P4_77372_3250227	NC_021165.1	Ca_kabuli_chr06	3250227	GG	AA	1946855974
SNP_P4_77373_3250363	NC_021165.1	Ca_kabuli_chr06	3250363	CC	AA	1946855976
SNP_P4_77374_3250388	NC_021165.1	Ca_kabuli_chr06	3250388	CC	AA	1946855978
SNP_P4_77375_3250429	NC_021165.1	Ca_kabuli_chr06	3250429	CC	AA	1946855980
SNP_P4_77376_3250445	NC_021165.1	Ca_kabuli_chr06	3250445	TT	CC	1946855982
SNP_P4_77377_3250448	NC_021165.1	Ca_kabuli_chr06	3250448	GG	AA	1946855984
SNP_P4_77378_3250482	NC_021165.1	Ca_kabuli_chr06	3250482	CC	TT	1946855986

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_77380_3250552	NC_021165.1	Ca_kabuli_chr06	3250552	GG	AA	1946855990
SNP_P4_77381_3250564	NC_021165.1	Ca_kabuli_chr06	3250564	GG	AA	1946855992
SNP_P4_77382_3250593	NC_021165.1	Ca_kabuli_chr06	3250593	AA	TT	1946855994
SNP_P4_77384_3286459	NC_021165.1	Ca_kabuli_chr06	3286459	CC	TT	1946855995
SNP_P4_77385_3287399	NC_021165.1	Ca_kabuli_chr06	3287399	CC	TT	1946855997
SNP_P4_77386_3325887	NC_021165.1	Ca_kabuli_chr06	3325887	GG	AA	1946855999
SNP_P4_77389_3334943	NC_021165.1	Ca_kabuli_chr06	3334943	AA	GG	1946856002
SNP_P4_77391_3340781	NC_021165.1	Ca_kabuli_chr06	3340781	GG	AA	1946856004
SNP_P4_77393_3347279	NC_021165.1	Ca_kabuli_chr06	3347279	AA	TT	1946856006
SNP_P4_77394_3347280	NC_021165.1	Ca_kabuli_chr06	3347280	AA	TT	1946856008
SNP_P4_77395_3347283	NC_021165.1	Ca_kabuli_chr06	3347283	TT	CC	1946856010
SNP_P4_77396_3347304	NC_021165.1	Ca_kabuli_chr06	3347304	GG	TT	1946856012
SNP_P4_77397_3347709	NC_021165.1	Ca_kabuli_chr06	3347709	AA	GG	1946856014
SNP_P4_77398_3347730	NC_021165.1	Ca_kabuli_chr06	3347730	CC	GG	1946856016
SNP_P4_77399_3348760	NC_021165.1	Ca_kabuli_chr06	3348760	TT	GG	1946856018
SNP_P4_77400_3348847	NC_021165.1	Ca_kabuli_chr06	3348847	GG	AA	1946856020
SNP_P4_77401_3348891	NC_021165.1	Ca_kabuli_chr06	3348891	AA	GG	1946856022
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SNP_P4_77403_3349145	NC_021165.1	Ca_kabuli_chr06	3349145	TT	GG	1946856026
SNP_P4_77404_3349276	NC_021165.1	Ca_kabuli_chr06	3349276	CC	TT	1946856028
SNP_P4_77405_3349412	NC_021165.1	Ca_kabuli_chr06	3349412	AA	GG	1946856030
SNP_P4_77406_3349478	NC_021165.1	Ca_kabuli_chr06	3349478	AA	CC	1946856032
SNP_P4_77407_3349512	NC_021165.1	Ca_kabuli_chr06	3349512	GG	AA	1946856034
SNP_P4_77408_3349709	NC_021165.1	Ca_kabuli_chr06	3349709	CC	TT	1946856036
SNP_P4_77409_3351526	NC_021165.1	Ca_kabuli_chr06	3351526	AA	TT	1946856038
SNP_P4_77411_3351594	NC_021165.1	Ca_kabuli_chr06	3351594	GG	TT	1946856040
SNP_P4_77412_3351645	NC_021165.1	Ca_kabuli_chr06	3351645	GG	CC	1946856042
SNP_P4_77415_3351690	NC_021165.1	Ca_kabuli_chr06	3351690	AA	GG	1946856044
SNP_P4_77418_3351812	NC_021165.1	Ca_kabuli_chr06	3351812	AA	GG	1946856046
SNP_P4_77419_3351841	NC_021165.1	Ca_kabuli_chr06	3351841	TT	CC	1946856048
SNP_P4_77420_3351889	NC_021165.1	Ca_kabuli_chr06	3351889	AA	GG	1946856050
SNP_P4_77421_3352838	NC_021165.1	Ca_kabuli_chr06	3352838	GG	AA	1946856052
SNP_P4_77423_3353060	NC_021165.1	Ca_kabuli_chr06	3353060	GG	AA	1946856054
SNP_P4_77424_3353065	NC_021165.1	Ca_kabuli_chr06	3353065	TT	CC	1946856056
SNP_P4_77425_3353066	NC_021165.1	Ca_kabuli_chr06	3353066	GG	AA	1946856058
SNP_P4_77426_3353108	NC_021165.1	Ca_kabuli_chr06	3353108	TT	AA	1946856059
SNP_P4_77427_3353142	NC_021165.1	Ca_kabuli_chr06	3353142	GG	TT	1946856061
SNP_P4_77428_3353160	NC_021165.1	Ca_kabuli_chr06	3353160	TT	AA	1946856063
SNP_P4_77429_3353202	NC_021165.1	Ca_kabuli_chr06	3353202	AA	CC	1946856065
SNP_P4_77430_3353420	NC_021165.1	Ca_kabuli_chr06	3353420	AA	CC	1946856067
SNP_P4_77431_3353475	NC_021165.1	Ca_kabuli_chr06	3353475	TT	AA	1946856069

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_77433_3354090	NC_021165.1	Ca_kabuli_chr06	3354090	TT	CC	1946856073
SNP_P4_77434_3354094	NC_021165.1	Ca_kabuli_chr06	3354094	GG	AA	1946856075
SNP_P4_77435_3354164	NC_021165.1	Ca_kabuli_chr06	3354164	TT	CC	1946856077
SNP_P4_77436_3354179	NC_021165.1	Ca_kabuli_chr06	3354179	GG	AA	1946856079
SNP_P4_77437_3354505	NC_021165.1	Ca_kabuli_chr06	3354505	AA	GG	1946856081
SNP_P4_77439_3355318	NC_021165.1	Ca_kabuli_chr06	3355318	CC	TT	1946856083
SNP_P4_77440_3355372	NC_021165.1	Ca_kabuli_chr06	3355372	GG	TT	1946856085
SNP_P4_77441_3355386	NC_021165.1	Ca_kabuli_chr06	3355386	CC	AA	1946856087
SNP_P4_77442_3355644	NC_021165.1	Ca_kabuli_chr06	3355644	AA	GG	1946856088
SNP_P4_77443_3355720	NC_021165.1	Ca_kabuli_chr06	3355720	GG	AA	1946856090
SNP_P4_77444_3355726	NC_021165.1	Ca_kabuli_chr06	3355726	CC	AA	1946856092
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SNP_P4_77448_3355954	NC_021165.1	Ca_kabuli_chr06	3355954	CC	TT	1946856098
SNP_P4_77449_3355961	NC_021165.1	Ca_kabuli_chr06	3355961	AA	GG	1946856100
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SNP_P4_77451_3356083	NC_021165.1	Ca_kabuli_chr06	3356083	AA	GG	1946856104
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SNP_P4_77463_3374607	NC_021165.1	Ca_kabuli_chr06	3374607	CC	TT	1946856126
SNP_P4_77464_3374657	NC_021165.1	Ca_kabuli_chr06	3374657	AA	TT	1946856127
SNP_P4_77465_3374707	NC_021165.1	Ca_kabuli_chr06	3374707	AA	GG	1946856129
SNP_P4_77466_3374899	NC_021165.1	Ca_kabuli_chr06	3374899	AA	TT	1946856131
SNP_P4_77467_3374906	NC_021165.1	Ca_kabuli_chr06	3374906	CC	TT	1946856133
SNP_P4_77468_3374986	NC_021165.1	Ca_kabuli_chr06	3374986	AA	GG	1946856135
SNP_P4_77469_3375089	NC_021165.1	Ca_kabuli_chr06	3375089	AA	TT	1946856137
SNP_P4_77470_3375209	NC_021165.1	Ca_kabuli_chr06	3375209	CC	TT	1946856139
SNP_P4_77471_3375264	NC_021165.1	Ca_kabuli_chr06	3375264	TT	AA	1946856141
SNP_P4_77473_3375285	NC_021165.1	Ca_kabuli_chr06	3375285	GG	TT	1946856143
SNP_P4_77474_3377317	NC_021165.1	Ca_kabuli_chr06	3377317	CC	GG	1946856144
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SNP_P4_77476_3377575	NC_021165.1	Ca_kabuli_chr06	3377575	CC	AA	1946856148
SNP_P4_77478_3377612	NC_021165.1	Ca_kabuli_chr06	3377612	TT	CC	1946856150

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_77481_3377675	NC_021165.1	Ca_kabuli_chr06	3377675	GG	AA	1946856156
SNP_P4_77482_3377688	NC_021165.1	Ca_kabuli_chr06	3377688	TT	CC	1946856158
SNP_P4_77483_3377694	NC_021165.1	Ca_kabuli_chr06	3377694	CC	AA	1946856160
SNP_P4_77484_3378075	NC_021165.1	Ca_kabuli_chr06	3378075	CC	GG	1946856162
SNP_P4_77485_3378076	NC_021165.1	Ca_kabuli_chr06	3378076	TT	AA	1946856164
SNP_P4_77486_3378086	NC_021165.1	Ca_kabuli_chr06	3378086	AA	CC	1946856166
SNP_P4_77487_3378096	NC_021165.1	Ca_kabuli_chr06	3378096	TT	CC	1946856168
SNP_P4_77488_3378114	NC_021165.1	Ca_kabuli_chr06	3378114	GG	AA	1946856170
SNP_P4_77490_3378129	NC_021165.1	Ca_kabuli_chr06	3378129	TT	GG	1946856171
SNP_P4_77491_3378760	NC_021165.1	Ca_kabuli_chr06	3378760	GG	CC	1946856173
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SNP_P4_77493_3378773	NC_021165.1	Ca_kabuli_chr06	3378773	CC	TT	1946856177
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SNP_P4_77496_3378992	NC_021165.1	Ca_kabuli_chr06	3378992	GG	AA	1946856183
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SNP_P4_77500_3382730	NC_021165.1	Ca_kabuli_chr06	3382730	AA	TT	1946856189
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SNP_P4_77503_3382771	NC_021165.1	Ca_kabuli_chr06	3382771	TT	AA	1946856194
SNP_P4_77505_3382848	NC_021165.1	Ca_kabuli_chr06	3382848	GG	TT	1946856196
SNP_P4_77506_3382890	NC_021165.1	Ca_kabuli_chr06	3382890	AA	CC	1946856197
SNP_P4_77508_3382960	NC_021165.1	Ca_kabuli_chr06	3382960	TT	GG	1946856198
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SNP_P4_77510_3383082	NC_021165.1	Ca_kabuli_chr06	3383082	GG	TT	1946856200
SNP_P4_77512_3387473	NC_021165.1	Ca_kabuli_chr06	3387473	TT	AA	1946856201
SNP_P4_77513_3387540	NC_021165.1	Ca_kabuli_chr06	3387540	AA	GG	1946856202
SNP_P4_77514_3387543	NC_021165.1	Ca_kabuli_chr06	3387543	GG	CC	1946856203
SNP_P4_77515_3387610	NC_021165.1	Ca_kabuli_chr06	3387610	CC	TT	1946856204
SNP_P4_77519_3392434	NC_021165.1	Ca_kabuli_chr06	3392434	CC	TT	1946856205
SNP_P4_77522_3392869	NC_021165.1	Ca_kabuli_chr06	3392869	AA	GG	1946856206
SNP_P4_77523_3393426	NC_021165.1	Ca_kabuli_chr06	3393426	GG	AA	1946856207
SNP_P4_77524_3393462	NC_021165.1	Ca_kabuli_chr06	3393462	TT	CC	1946856208
SNP_P4_77525_3393463	NC_021165.1	Ca_kabuli_chr06	3393463	TT	GG	1946856209
SNP_P4_77526_3393465	NC_021165.1	Ca_kabuli_chr06	3393465	CC	TT	1946856210
SNP_P4_77527_3393497	NC_021165.1	Ca_kabuli_chr06	3393497	CC	TT	1946856211
SNP_P4_77528_3393513	NC_021165.1	Ca_kabuli_chr06	3393513	TT	GG	1946856212
SNP_P4_77529_3393593	NC_021165.1	Ca_kabuli_chr06	3393593	GG	AA	1946856213
SNP_P4_77531_3393691	NC_021165.1	Ca_kabuli_chr06	3393691	AA	GG	1946856214

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_77532_3393740	NC_021165.1	Ca_kabuli_chr06	3393740	TT	GG	1946856216
SNP_P4_77533_3393753	NC_021165.1	Ca_kabuli_chr06	3393753	AA	GG	1946856218
SNP_P4_77534_3393761	NC_021165.1	Ca_kabuli_chr06	3393761	AA	TT	1946856219
SNP_P4_77535_3393782	NC_021165.1	Ca_kabuli_chr06	3393782	CC	TT	1946856221
SNP_P4_77536_3393784	NC_021165.1	Ca_kabuli_chr06	3393784	TT	CC	1946856223
SNP_P4_77537_3393792	NC_021165.1	Ca_kabuli_chr06	3393792	AA	CC	1946856225
SNP_P4_77538_3393817	NC_021165.1	Ca_kabuli_chr06	3393817	GG	TT	1946856227
SNP_P4_77539_3393831	NC_021165.1	Ca_kabuli_chr06	3393831	TT	GG	1946856229
SNP_P4_77540_3393843	NC_021165.1	Ca_kabuli_chr06	3393843	AA	GG	1946856231
SNP_P4_77541_3393850	NC_021165.1	Ca_kabuli_chr06	3393850	TT	CC	1946856233
SNP_P4_77542_3393923	NC_021165.1	Ca_kabuli_chr06	3393923	AA	GG	1946856235
SNP_P4_77543_3393933	NC_021165.1	Ca_kabuli_chr06	3393933	CC	TT	1946856236
SNP_P4_77544_3394013	NC_021165.1	Ca_kabuli_chr06	3394013	AA	GG	1946856238
SNP_P4_77545_3394024	NC_021165.1	Ca_kabuli_chr06	3394024	AA	GG	1946856240
SNP_P4_77546_3394025	NC_021165.1	Ca_kabuli_chr06	3394025	TT	CC	1946856242
SNP_P4_77547_3394034	NC_021165.1	Ca_kabuli_chr06	3394034	AA	TT	1946856244
SNP_P4_77548_3394044	NC_021165.1	Ca_kabuli_chr06	3394044	GG	AA	1946856246
SNP_P4_77549_3394064	NC_021165.1	Ca_kabuli_chr06	3394064	CC	TT	1946856248
SNP_P4_77552_3394244	NC_021165.1	Ca_kabuli_chr06	3394244	AA	GG	1946856250
SNP_P4_77553_3394257	NC_021165.1	Ca_kabuli_chr06	3394257	TT	CC	1946856252
SNP_P4_77554_3394293	NC_021165.1	Ca_kabuli_chr06	3394293	CC	TT	1946856254
SNP_P4_77555_3394322	NC_021165.1	Ca_kabuli_chr06	3394322	TT	GG	1946856255
SNP_P4_77556_3394327	NC_021165.1	Ca_kabuli_chr06	3394327	AA	GG	1946856257
SNP_P4_77557_3394383	NC_021165.1	Ca_kabuli_chr06	3394383	TT	CC	1946856259
SNP_P4_77558_3394481	NC_021165.1	Ca_kabuli_chr06	3394481	TT	AA	1946856261
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SNP_P4_77561_3394697	NC_021165.1	Ca_kabuli_chr06	3394697	GG	AA	1946856267
SNP_P4_77562_3394747	NC_021165.1	Ca_kabuli_chr06	3394747	CC	TT	1946856269
SNP_P4_77563_3394774	NC_021165.1	Ca_kabuli_chr06	3394774	CC	TT	1946856271
SNP_P4_77564_3394784	NC_021165.1	Ca_kabuli_chr06	3394784	CC	GG	1946856272
SNP_P4_77565_3394857	NC_021165.1	Ca_kabuli_chr06	3394857	CC	TT	1946856274
SNP_P4_77566_3394876	NC_021165.1	Ca_kabuli_chr06	3394876	GG	AA	1946856276
SNP_P4_77567_3394898	NC_021165.1	Ca_kabuli_chr06	3394898	AA	TT	1946856278
SNP_P4_77568_3394908	NC_021165.1	Ca_kabuli_chr06	3394908	GG	TT	1946856280
SNP_P4_77569_3394921	NC_021165.1	Ca_kabuli_chr06	3394921	AA	GG	1946856282
SNP_P4_77570_3395024	NC_021165.1	Ca_kabuli_chr06	3395024	GG	AA	1946856284
SNP_P4_77571_3395253	NC_021165.1	Ca_kabuli_chr06	3395253	GG	AA	1946856286
SNP_P4_77572_3395440	NC_021165.1	Ca_kabuli_chr06	3395440	AA	GG	1946856288
SNP_P4_77573_3395467	NC_021165.1	Ca_kabuli_chr06	3395467	TT	GG	1946856290
SNP_P4_77574_3395508	NC_021165.1	Ca_kabuli_chr06	3395508	AA	GG	1946856292
SNP_P4_77575_3395512	NC_021165.1	Ca_kabuli_chr06	3395512	AA	TT	1946856294

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_77577_3395546	NC_021165.1	Ca_kabuli_chr06	3395546	TT	CC	1946856298
SNP_P4_77578_3395590	NC_021165.1	Ca_kabuli_chr06	3395590	TT	CC	1946856300
SNP_P4_77579_3395617	NC_021165.1	Ca_kabuli_chr06	3395617	GG	CC	1946856301
SNP_P4_77580_3395620	NC_021165.1	Ca_kabuli_chr06	3395620	TT	CC	1946856303
SNP_P4_77582_3395651	NC_021165.1	Ca_kabuli_chr06	3395651	CC	GG	1946856305
SNP_P4_77583_3395654	NC_021165.1	Ca_kabuli_chr06	3395654	CC	TT	1946856307
SNP_P4_77584_3395674	NC_021165.1	Ca_kabuli_chr06	3395674	CC	AA	1946856309
SNP_P4_77585_3395676	NC_021165.1	Ca_kabuli_chr06	3395676	GG	AA	1946856311
SNP_P4_77586_3395698	NC_021165.1	Ca_kabuli_chr06	3395698	CC	AA	1946856312
SNP_P4_77587_3395700	NC_021165.1	Ca_kabuli_chr06	3395700	GG	AA	1946856314
SNP_P4_77588_3395715	NC_021165.1	Ca_kabuli_chr06	3395715	AA	GG	1946856316
SNP_P4_77589_3395740	NC_021165.1	Ca_kabuli_chr06	3395740	AA	GG	1946856318
SNP_P4_77590_3395756	NC_021165.1	Ca_kabuli_chr06	3395756	GG	AA	1946856320
SNP_P4_77591_3413857	NC_021165.1	Ca_kabuli_chr06	3413857	CC	AA	1946856322
SNP_P4_77593_3461974	NC_021165.1	Ca_kabuli_chr06	3461974	GG	AA	1946856323
SNP_P4_77594_3477549	NC_021165.1	Ca_kabuli_chr06	3477549	TT	CC	1946856325
SNP_P4_77595_3495509	NC_021165.1	Ca_kabuli_chr06	3495509	AA	CC	1946856327
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SNP_P4_77600_3591461	NC_021165.1	Ca_kabuli_chr06	3591461	AA	GG	1946856331
SNP_P4_77601_3591533	NC_021165.1	Ca_kabuli_chr06	3591533	AA	CC	1946856333
SNP_P4_77602_3591949	NC_021165.1	Ca_kabuli_chr06	3591949	CC	TT	1946856335
SNP_P4_77603_3592810	NC_021165.1	Ca_kabuli_chr06	3592810	GG	AA	1946856337
SNP_P4_77604_3599525	NC_021165.1	Ca_kabuli_chr06	3599525	AA	CC	1946856339
SNP_P4_77605_3636638	NC_021165.1	Ca_kabuli_chr06	3636638	TT	CC	1946856340
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SNP_P4_77608_3672364	NC_021165.1	Ca_kabuli_chr06	3672364	GG	AA	1946856346
SNP_P4_77609_3672394	NC_021165.1	Ca_kabuli_chr06	3672394	GG	TT	1946856348
SNP_P4_77610_3672637	NC_021165.1	Ca_kabuli_chr06	3672637	AA	GG	1946856350
SNP_P4_77611_3680077	NC_021165.1	Ca_kabuli_chr06	3680077	AA	GG	1946856352
SNP_P4_77612_3685370	NC_021165.1	Ca_kabuli_chr06	3685370	AA	TT	1946856354
SNP_P4_77613_3685371	NC_021165.1	Ca_kabuli_chr06	3685371	AA	TT	1946856355
SNP_P4_77614_3685372	NC_021165.1	Ca_kabuli_chr06	3685372	AA	TT	1946856357
SNP_P4_77617_3761493	NC_021165.1	Ca_kabuli_chr06	3761493	GG	AA	1946856359
SNP_P4_77619_3795592	NC_021165.1	Ca_kabuli_chr06	3795592	AA	GG	1946856361
SNP_P4_77620_3798574	NC_021165.1	Ca_kabuli_chr06	3798574	AA	CC	1946856363
SNP_P4_77621_3824607	NC_021165.1	Ca_kabuli_chr06	3824607	CC	TT	1946856365
SNP_P4_77624_3855800	NC_021165.1	Ca_kabuli_chr06	3855800	TT	GG	1946856367
SNP_P4_77625_3864189	NC_021165.1	Ca_kabuli_chr06	3864189	TT	CC	1946856369
SNP_P4_77626_3869148	NC_021165.1	Ca_kabuli_chr06	3869148	CC	AA	1946856371
SNP_P4_77627_3870486	NC_021165.1	Ca_kabuli_chr06	3870486	AA	GG	1946856372

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_77629_3928224	NC_021165.1	Ca_kabuli_chr06	3928224	GG	AA	1946856376
SNP_P4_77631_3939516	NC_021165.1	Ca_kabuli_chr06	3939516	AA	GG	1946856378
SNP_P4_77632_3944701	NC_021165.1	Ca_kabuli_chr06	3944701	GG	AA	1946856380
SNP_P4_77633_3947325	NC_021165.1	Ca_kabuli_chr06	3947325	CC	GG	1946856382
SNP_P4_77634_3975477	NC_021165.1	Ca_kabuli_chr06	3975477	CC	GG	1946856384
SNP_P4_77635_3975479	NC_021165.1	Ca_kabuli_chr06	3975479	AA	GG	1946856386
SNP_P4_77638_3997270	NC_021165.1	Ca_kabuli_chr06	3997270	TT	GG	1946856387
SNP_P4_77640_4064879	NC_021165.1	Ca_kabuli_chr06	4064879	TT	AA	1946856389
SNP_P4_77641_4064881	NC_021165.1	Ca_kabuli_chr06	4064881	TT	AA	1946856391
SNP_P4_77642_4133324	NC_021165.1	Ca_kabuli_chr06	4133324	AA	GG	1946856393
SNP_P4_77643_4139808	NC_021165.1	Ca_kabuli_chr06	4139808	TT	CC	1946856395
SNP_P4_77644_4212039	NC_021165.1	Ca_kabuli_chr06	4212039	AA	GG	1946856397
SNP_P4_77645_4224048	NC_021165.1	Ca_kabuli_chr06	4224048	TT	CC	1946856399
SNP_P4_77646_4249280	NC_021165.1	Ca_kabuli_chr06	4249280	AA	GG	1946856401
SNP_P4_77647_4249297	NC_021165.1	Ca_kabuli_chr06	4249297	CC	TT	1946856403
SNP_P4_77648_4249373	NC_021165.1	Ca_kabuli_chr06	4249373	CC	TT	1946856405
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SNP_P4_77656_4368571	NC_021165.1	Ca_kabuli_chr06	4368571	AA	GG	1946856418
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SNP_P4_77662_4447480	NC_021165.1	Ca_kabuli_chr06	4447480	TT	AA	1946856428
SNP_P4_77663_4447482	NC_021165.1	Ca_kabuli_chr06	4447482	AA	GG	1946856430
SNP_P4_77664_4470406	NC_021165.1	Ca_kabuli_chr06	4470406	AA	GG	1946856432
SNP_P4_77665_4491937	NC_021165.1	Ca_kabuli_chr06	4491937	AA	GG	1946856434
SNP_P4_77669_4588643	NC_021165.1	Ca_kabuli_chr06	4588643	CC	AA	1946856436
SNP_P4_77671_4635376	NC_021165.1	Ca_kabuli_chr06	4635376	TT	CC	1946856438
SNP_P4_77673_4658183	NC_021165.1	Ca_kabuli_chr06	4658183	AA	GG	1946856440
SNP_P4_77675_4699620	NC_021165.1	Ca_kabuli_chr06	4699620	AA	GG	1946856442
SNP_P4_77676_4699725	NC_021165.1	Ca_kabuli_chr06	4699725	TT	AA	1946856444
SNP_P4_77677_4699773	NC_021165.1	Ca_kabuli_chr06	4699773	TT	AA	1946856446
SNP_P4_77678_4712912	NC_021165.1	Ca_kabuli_chr06	4712912	AA	GG	1946856448
SNP_P4_77679_4713000	NC_021165.1	Ca_kabuli_chr06	4713000	AA	GG	1946856450
SNP_P4_77680_4713064	NC_021165.1	Ca_kabuli_chr06	4713064	TT	AA	1946856452
SNP_P4_77681_4713103	NC_021165.1	Ca_kabuli_chr06	4713103	TT	CC	1946856454

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_77683_4713325	NC_021165.1	Ca_kabuli_chr06	4713325	AA	TT	1946856459
SNP_P4_77684_4713379	NC_021165.1	Ca_kabuli_chr06	4713379	AA	GG	1946856461
SNP_P4_77686_4724539	NC_021165.1	Ca_kabuli_chr06	4724539	CC	AA	1946856463
SNP_P4_77687_4747279	NC_021165.1	Ca_kabuli_chr06	4747279	CC	TT	1946856465
SNP_P4_77688_4747598	NC_021165.1	Ca_kabuli_chr06	4747598	TT	CC	1946856467
SNP_P4_77689_4747765	NC_021165.1	Ca_kabuli_chr06	4747765	CC	TT	1946856469
SNP_P4_77691_4764129	NC_021165.1	Ca_kabuli_chr06	4764129	AA	TT	1946856471
SNP_P4_77692_4764130	NC_021165.1	Ca_kabuli_chr06	4764130	AA	TT	1946856473
SNP_P4_77693_4765516	NC_021165.1	Ca_kabuli_chr06	4765516	CC	TT	1946856475
SNP_P4_77696_4798257	NC_021165.1	Ca_kabuli_chr06	4798257	AA	TT	1946856477
SNP_P4_77697_4800068	NC_021165.1	Ca_kabuli_chr06	4800068	AA	GG	1946856479
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SNP_P4_77703_4826428	NC_021165.1	Ca_kabuli_chr06	4826428	AA	CC	1946856483
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SNP_P4_77705_4826431	NC_021165.1	Ca_kabuli_chr06	4826431	TT	AA	1946856487
SNP_P4_77706_4837220	NC_021165.1	Ca_kabuli_chr06	4837220	GG	AA	1946856489
SNP_P4_77708_4849363	NC_021165.1	Ca_kabuli_chr06	4849363	GG	AA	1946856491
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SNP_P4_77710_4911723	NC_021165.1	Ca_kabuli_chr06	4911723	GG	AA	1946856495
SNP_P4_77712_4928255	NC_021165.1	Ca_kabuli_chr06	4928255	TT	GG	1946856497
SNP_P4_77715_5004596	NC_021165.1	Ca_kabuli_chr06	5004596	GG	AA	1946856499
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SNP_P4_77720_5070171	NC_021165.1	Ca_kabuli_chr06	5070171	CC	TT	1946856503
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SNP_P4_77722_5153721	NC_021165.1	Ca_kabuli_chr06	5153721	TT	CC	1946856507
SNP_P4_77723_5181594	NC_021165.1	Ca_kabuli_chr06	5181594	AA	TT	1946856509
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SNP_P4_77727_5245304	NC_021165.1	Ca_kabuli_chr06	5245304	GG	AA	1946856515
SNP_P4_77728_5246303	NC_021165.1	Ca_kabuli_chr06	5246303	AA	TT	1946856517
SNP_P4_77729_5263151	NC_021165.1	Ca_kabuli_chr06	5263151	AA	GG	1946856519
SNP_P4_77730_5270884	NC_021165.1	Ca_kabuli_chr06	5270884	AA	GG	1946856521
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SNP_P4_77733_5287885	NC_021165.1	Ca_kabuli_chr06	5287885	AA	GG	1946856526
SNP_P4_77735_5287905	NC_021165.1	Ca_kabuli_chr06	5287905	TT	AA	1946856528
SNP_P4_77736_5287955	NC_021165.1	Ca_kabuli_chr06	5287955	TT	GG	1946856530
SNP_P4_77737_5288024	NC_021165.1	Ca_kabuli_chr06	5288024	GG	AA	1946856532
SNP_P4_77739_5297327	NC_021165.1	Ca_kabuli_chr06	5297327	TT	AA	1946856534
SNP_P4_77740_5297328	NC_021165.1	Ca_kabuli_chr06	5297328	TT	AA	1946856536
SNP_P4_77741_5329363	NC_021165.1	Ca_kabuli_chr06	5329363	AA	TT	1946856538

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_77743_5335020	NC_021165.1	Ca_kabuli_chr06	5335020	TT	CC	1946856542
SNP_P4_77744_5335382	NC_021165.1	Ca_kabuli_chr06	5335382	TT	AA	1946856544
SNP_P4_77745_5335435	NC_021165.1	Ca_kabuli_chr06	5335435	TT	CC	1946856546
SNP_P4_77746_5335473	NC_021165.1	Ca_kabuli_chr06	5335473	CC	TT	1946856548
SNP_P4_77747_5335617	NC_021165.1	Ca_kabuli_chr06	5335617	TT	CC	1946856549
SNP_P4_77748_5364532	NC_021165.1	Ca_kabuli_chr06	5364532	GG	AA	1946856551
SNP_P4_77749_5385822	NC_021165.1	Ca_kabuli_chr06	5385822	TT	CC	1946856553
SNP_P4_77750_5387608	NC_021165.1	Ca_kabuli_chr06	5387608	AA	GG	1946856555
SNP_P4_77752_5438513	NC_021165.1	Ca_kabuli_chr06	5438513	TT	CC	1946856557
SNP_P4_77753_5441173	NC_021165.1	Ca_kabuli_chr06	5441173	GG	AA	1946856559
SNP_P4_77755_5471515	NC_021165.1	Ca_kabuli_chr06	5471515	GG	AA	1946856561
SNP_P4_77756_5495880	NC_021165.1	Ca_kabuli_chr06	5495880	CC	GG	1946856563
SNP_P4_77759_5549021	NC_021165.1	Ca_kabuli_chr06	5549021	AA	TT	1946856565
SNP_P4_77760_5549046	NC_021165.1	Ca_kabuli_chr06	5549046	AA	GG	1946856567
SNP_P4_77761_5549055	NC_021165.1	Ca_kabuli_chr06	5549055	TT	CC	1946856569
SNP_P4_77762_5549210	NC_021165.1	Ca_kabuli_chr06	5549210	GG	CC	1946856571
SNP_P4_77763_5549415	NC_021165.1	Ca_kabuli_chr06	5549415	AA	GG	1946856573
SNP_P4_77765_5567272	NC_021165.1	Ca_kabuli_chr06	5567272	TT	CC	1946856575
SNP_P4_77766_5594986	NC_021165.1	Ca_kabuli_chr06	5594986	AA	GG	1946856576
SNP_P4_77767_5596470	NC_021165.1	Ca_kabuli_chr06	5596470	TT	CC	1946856578
SNP_P4_77769_5637934	NC_021165.1	Ca_kabuli_chr06	5637934	TT	AA	1946856580
SNP_P4_77771_5648594	NC_021165.1	Ca_kabuli_chr06	5648594	CC	TT	1946856582
SNP_P4_77773_5657237	NC_021165.1	Ca_kabuli_chr06	5657237	TT	AA	1946856584
SNP_P4_77774_5669873	NC_021165.1	Ca_kabuli_chr06	5669873	AA	GG	1946856586
SNP_P4_77775_5671697	NC_021165.1	Ca_kabuli_chr06	5671697	TT	CC	1946856588
SNP_P4_77776_5713774	NC_021165.1	Ca_kabuli_chr06	5713774	AA	TT	1946856590
SNP_P4_77777_5713775	NC_021165.1	Ca_kabuli_chr06	5713775	TT	AA	1946856592
SNP_P4_77778_5722981	NC_021165.1	Ca_kabuli_chr06	5722981	AA	GG	1946856594
SNP_P4_77779_5726782	NC_021165.1	Ca_kabuli_chr06	5726782	CC	TT	1946856596
SNP_P4_77781_5737118	NC_021165.1	Ca_kabuli_chr06	5737118	GG	AA	1946856598
SNP_P4_77783_5747959	NC_021165.1	Ca_kabuli_chr06	5747959	AA	TT	1946856600
SNP_P4_77784_5751003	NC_021165.1	Ca_kabuli_chr06	5751003	AA	TT	1946856602
SNP_P4_77786_5783530	NC_021165.1	Ca_kabuli_chr06	5783530	GG	AA	1946856604
SNP_P4_77787_5795459	NC_021165.1	Ca_kabuli_chr06	5795459	TT	CC	1946856605
SNP_P4_77788_5797105	NC_021165.1	Ca_kabuli_chr06	5797105	CC	GG	1946856607
SNP_P4_77789_5803335	NC_021165.1	Ca_kabuli_chr06	5803335	TT	CC	1946856609
SNP_P4_77790_5810377	NC_021165.1	Ca_kabuli_chr06	5810377	TT	AA	1946856611
SNP_P4_77791_5843747	NC_021165.1	Ca_kabuli_chr06	5843747	GG	AA	1946856613
SNP_P4_77792_5846079	NC_021165.1	Ca_kabuli_chr06	5846079	AA	GG	1946856615
SNP_P4_77797_5854876	NC_021165.1	Ca_kabuli_chr06	5854876	TT	CC	1946856617
SNP_P4_77798_5864710	NC_021165.1	Ca_kabuli_chr06	5864710	TT	AA	1946856619

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_77800_5882072	NC_021165.1	Ca_kabuli_chr06	5882072	GG	AA	1946856623
SNP_P4_77801_5892305	NC_021165.1	Ca_kabuli_chr06	5892305	CC	TT	1946856626
SNP_P4_77802_5895408	NC_021165.1	Ca_kabuli_chr06	5895408	TT	AA	1946856628
SNP_P4_77803_5951942	NC_021165.1	Ca_kabuli_chr06	5951942	TT	GG	1946856629
SNP_P4_77804_5954148	NC_021165.1	Ca_kabuli_chr06	5954148	GG	AA	1946856631
SNP_P4_77805_5957401	NC_021165.1	Ca_kabuli_chr06	5957401	GG	AA	1946856633
SNP_P4_77806_5960267	NC_021165.1	Ca_kabuli_chr06	5960267	TT	AA	1946856635
SNP_P4_77807_5962147	NC_021165.1	Ca_kabuli_chr06	5962147	TT	GG	1946856637
SNP_P4_77808_5962150	NC_021165.1	Ca_kabuli_chr06	5962150	AA	CC	1946856639
SNP_P4_77809_6001917	NC_021165.1	Ca_kabuli_chr06	6001917	GG	AA	1946856641
SNP_P4_77810_6009427	NC_021165.1	Ca_kabuli_chr06	6009427	CC	TT	1946856643
SNP_P4_77811_6013716	NC_021165.1	Ca_kabuli_chr06	6013716	TT	AA	1946856645
SNP_P4_77812_6021573	NC_021165.1	Ca_kabuli_chr06	6021573	AA	TT	1946856647
SNP_P4_77813_6071447	NC_021165.1	Ca_kabuli_chr06	6071447	CC	TT	1946856649
SNP_P4_77815_6086645	NC_021165.1	Ca_kabuli_chr06	6086645	GG	CC	1946856651
SNP_P4_77817_6100457	NC_021165.1	Ca_kabuli_chr06	6100457	TT	CC	1946856653
SNP_P4_77818_6120280	NC_021165.1	Ca_kabuli_chr06	6120280	GG	TT	1946856655
SNP_P4_77819_6132257	NC_021165.1	Ca_kabuli_chr06	6132257	TT	CC	1946856657
SNP_P4_77820_6134321	NC_021165.1	Ca_kabuli_chr06	6134321	AA	GG	1946856659
SNP_P4_77823_6153089	NC_021165.1	Ca_kabuli_chr06	6153089	TT	CC	1946856661
SNP_P4_77826_6204091	NC_021165.1	Ca_kabuli_chr06	6204091	TT	CC	1946856662
SNP_P4_77827_6226877	NC_021165.1	Ca_kabuli_chr06	6226877	TT	CC	1946856664
SNP_P4_77828_6302780	NC_021165.1	Ca_kabuli_chr06	6302780	GG	AA	1946856666
SNP_P4_77831_6321248	NC_021165.1	Ca_kabuli_chr06	6321248	AA	CC	1946856668
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SNP_P4_77836_6334324	NC_021165.1	Ca_kabuli_chr06	6334324	TT	CC	1946856674
SNP_P4_77837_6340493	NC_021165.1	Ca_kabuli_chr06	6340493	TT	AA	1946856676
SNP_P4_77838_6340498	NC_021165.1	Ca_kabuli_chr06	6340498	AA	TT	1946856678
SNP_P4_77839_6340902	NC_021165.1	Ca_kabuli_chr06	6340902	TT	AA	1946856680
SNP_P4_77841_6354476	NC_021165.1	Ca_kabuli_chr06	6354476	TT	CC	1946856682
SNP_P4_77843_6410090	NC_021165.1	Ca_kabuli_chr06	6410090	TT	GG	1946856684
SNP_P4_77844_6410097	NC_021165.1	Ca_kabuli_chr06	6410097	TT	CC	1946856686
SNP_P4_77845_6410106	NC_021165.1	Ca_kabuli_chr06	6410106	AA	CC	1946856688
SNP_P4_77846_6410715	NC_021165.1	Ca_kabuli_chr06	6410715	AA	CC	1946856690
SNP_P4_77847_6411115	NC_021165.1	Ca_kabuli_chr06	6411115	CC	TT	1946856692
SNP_P4_77851_6432304	NC_021165.1	Ca_kabuli_chr06	6432304	TT	CC	1946856694
SNP_P4_77853_6447347	NC_021165.1	Ca_kabuli_chr06	6447347	CC	TT	1946856696
SNP_P4_77855_6475269	NC_021165.1	Ca_kabuli_chr06	6475269	AA	GG	1946856698
SNP_P4_77859_6493296	NC_021165.1	Ca_kabuli_chr06	6493296	AA	GG	1946856700
SNP_P4_77860_6517726	NC_021165.1	Ca_kabuli_chr06	6517726	CC	TT	1946856702

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_77862_6573769	NC_021165.1	Ca_kabuli_chr06	6573769	AA	GG	1946856707
SNP_P4_77863_6580437	NC_021165.1	Ca_kabuli_chr06	6580437	TT	CC	1946856709
SNP_P4_77864_6601881	NC_021165.1	Ca_kabuli_chr06	6601881	GG	AA	1946856711
SNP_P4_77865_6634781	NC_021165.1	Ca_kabuli_chr06	6634781	CC	TT	1946856713
SNP_P4_77866_6643468	NC_021165.1	Ca_kabuli_chr06	6643468	AA	GG	1946856715
SNP_P4_77867_6678981	NC_021165.1	Ca_kabuli_chr06	6678981	AA	GG	1946856717
SNP_P4_77868_6688798	NC_021165.1	Ca_kabuli_chr06	6688798	TT	GG	1946856719
SNP_P4_77870_6730661	NC_021165.1	Ca_kabuli_chr06	6730661	CC	AA	1946856721
SNP_P4_77871_6747065	NC_021165.1	Ca_kabuli_chr06	6747065	CC	AA	1946856723
SNP_P4_77873_6748899	NC_021165.1	Ca_kabuli_chr06	6748899	AA	GG	1946856725
SNP_P4_77874_6748901	NC_021165.1	Ca_kabuli_chr06	6748901	GG	AA	1946856727
SNP_P4_77875_6749281	NC_021165.1	Ca_kabuli_chr06	6749281	AA	GG	1946856729
SNP_P4_77876_6749299	NC_021165.1	Ca_kabuli_chr06	6749299	TT	CC	1946856731
SNP_P4_77877_6760013	NC_021165.1	Ca_kabuli_chr06	6760013	TT	CC	1946856733
SNP_P4_77878_6760014	NC_021165.1	Ca_kabuli_chr06	6760014	TT	AA	1946856735
SNP_P4_77879_6760248	NC_021165.1	Ca_kabuli_chr06	6760248	CC	TT	1946856737
SNP_P4_77880_6785943	NC_021165.1	Ca_kabuli_chr06	6785943	GG	TT	1946856740
SNP_P4_77881_6820610	NC_021165.1	Ca_kabuli_chr06	6820610	TT	CC	1946856742
SNP_P4_77882_6821943	NC_021165.1	Ca_kabuli_chr06	6821943	CC	TT	1946856744
SNP_P4_77884_6863328	NC_021165.1	Ca_kabuli_chr06	6863328	AA	GG	1946856746
SNP_P4_77885_6890708	NC_021165.1	Ca_kabuli_chr06	6890708	GG	TT	1946856748
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SNP_P4_77887_6919581	NC_021165.1	Ca_kabuli_chr06	6919581	TT	CC	1946856752
SNP_P4_77888_6920432	NC_021165.1	Ca_kabuli_chr06	6920432	GG	CC	1946856754
SNP_P4_77889_6922356	NC_021165.1	Ca_kabuli_chr06	6922356	CC	TT	1946856756
SNP_P4_77890_6922421	NC_021165.1	Ca_kabuli_chr06	6922421	AA	TT	1946856758
SNP_P4_77891_6922605	NC_021165.1	Ca_kabuli_chr06	6922605	TT	CC	1946856760
SNP_P4_77892_6922873	NC_021165.1	Ca_kabuli_chr06	6922873	CC	AA	1946856762
SNP_P4_77893_6922928	NC_021165.1	Ca_kabuli_chr06	6922928	CC	TT	1946856764
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SNP_P4_77896_6923167	NC_021165.1	Ca_kabuli_chr06	6923167	CC	TT	1946856768
SNP_P4_77899_6984565	NC_021165.1	Ca_kabuli_chr06	6984565	TT	GG	1946856770
SNP_P4_77900_7001236	NC_021165.1	Ca_kabuli_chr06	7001236	CC	TT	1946856772
SNP_P4_77901_7012353	NC_021165.1	Ca_kabuli_chr06	7012353	TT	CC	1946856774
SNP_P4_77902_7015483	NC_021165.1	Ca_kabuli_chr06	7015483	AA	GG	1946856776
SNP_P4_77903_7099522	NC_021165.1	Ca_kabuli_chr06	7099522	GG	AA	1946856778
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SNP_P4_77907_7161181	NC_021165.1	Ca_kabuli_chr06	7161181	AA	TT	1946856784
SNP_P4_77908_7183182	NC_021165.1	Ca_kabuli_chr06	7183182	TT	AA	1946856786
SNP_P4_77910_7192131	NC_021165.1	Ca_kabuli_chr06	7192131	CC	AA	1946856788

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_77912_7192206	NC_021165.1	Ca_kabuli_chr06	7192206	CC	TT	1946856792
SNP_P4_77913_7192215	NC_021165.1	Ca_kabuli_chr06	7192215	AA	CC	1946856794
SNP_P4_77914_7192360	NC_021165.1	Ca_kabuli_chr06	7192360	TT	CC	1946856796
SNP_P4_77915_7224663	NC_021165.1	Ca_kabuli_chr06	7224663	AA	GG	1946856798
SNP_P4_77916_7229819	NC_021165.1	Ca_kabuli_chr06	7229819	GG	AA	1946856800
SNP_P4_77917_7231830	NC_021165.1	Ca_kabuli_chr06	7231830	TT	GG	1946856802
SNP_P4_77918_7231832	NC_021165.1	Ca_kabuli_chr06	7231832	TT	AA	1946856804
SNP_P4_77919_7261022	NC_021165.1	Ca_kabuli_chr06	7261022	GG	CC	1946856806
SNP_P4_77924_7329242	NC_021165.1	Ca_kabuli_chr06	7329242	CC	TT	1946856808
SNP_P4_77926_7344708	NC_021165.1	Ca_kabuli_chr06	7344708	CC	GG	1946856810
SNP_P4_77927_7344748	NC_021165.1	Ca_kabuli_chr06	7344748	TT	CC	1946856812
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SNP_P4_77933_7399858	NC_021165.1	Ca_kabuli_chr06	7399858	TT	CC	1946856816
SNP_P4_77934_7413520	NC_021165.1	Ca_kabuli_chr06	7413520	TT	AA	1946856818
SNP_P4_77937_7496239	NC_021165.1	Ca_kabuli_chr06	7496239	AA	CC	1946856820
SNP_P4_77938_7496499	NC_021165.1	Ca_kabuli_chr06	7496499	GG	TT	1946856822
SNP_P4_77940_7534932	NC_021165.1	Ca_kabuli_chr06	7534932	AA	GG	1946856824
SNP_P4_77941_7535506	NC_021165.1	Ca_kabuli_chr06	7535506	TT	AA	1946856827
SNP_P4_77942_7537398	NC_021165.1	Ca_kabuli_chr06	7537398	CC	AA	1946856829
SNP_P4_77943_7537642	NC_021165.1	Ca_kabuli_chr06	7537642	GG	CC	1946856831
SNP_P4_77944_7537689	NC_021165.1	Ca_kabuli_chr06	7537689	AA	GG	1946856833
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SNP_P4_77946_7549453	NC_021165.1	Ca_kabuli_chr06	7549453	AA	CC	1946856837
SNP_P4_77947_7552797	NC_021165.1	Ca_kabuli_chr06	7552797	GG	AA	1946856839
SNP_P4_77948_7552980	NC_021165.1	Ca_kabuli_chr06	7552980	TT	CC	1946856841
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SNP_P4_77951_7554101	NC_021165.1	Ca_kabuli_chr06	7554101	GG	CC	1946856847
SNP_P4_77952_7554313	NC_021165.1	Ca_kabuli_chr06	7554313	AA	TT	1946856849
SNP_P4_77953_7555125	NC_021165.1	Ca_kabuli_chr06	7555125	CC	TT	1946856851
SNP_P4_77954_7555396	NC_021165.1	Ca_kabuli_chr06	7555396	GG	AA	1946856853
SNP_P4_77955_7556276	NC_021165.1	Ca_kabuli_chr06	7556276	TT	GG	1946856855
SNP_P4_77956_7556323	NC_021165.1	Ca_kabuli_chr06	7556323	TT	CC	1946856857
SNP_P4_77957_7556424	NC_021165.1	Ca_kabuli_chr06	7556424	AA	GG	1946856859
SNP_P4_77958_7557116	NC_021165.1	Ca_kabuli_chr06	7557116	AA	CC	1946856861
SNP_P4_77959_7557164	NC_021165.1	Ca_kabuli_chr06	7557164	GG	AA	1946856863
SNP_P4_77960_7557184	NC_021165.1	Ca_kabuli_chr06	7557184	CC	TT	1946856865
SNP_P4_77962_7557635	NC_021165.1	Ca_kabuli_chr06	7557635	GG	AA	1946856867
SNP_P4_77963_7558177	NC_021165.1	Ca_kabuli_chr06	7558177	CC	TT	1946856869
SNP_P4_77964_7558393	NC_021165.1	Ca_kabuli_chr06	7558393	GG	AA	1946856871
SNP_P4_77965_7558455	NC_021165.1	Ca_kabuli_chr06	7558455	AA	GG	1946856873

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_77967_7558569	NC_021165.1	Ca_kabuli_chr06	7558569	GG	AA	1946856877
SNP_P4_77968_7558599	NC_021165.1	Ca_kabuli_chr06	7558599	GG	TT	1946856879
SNP_P4_77969_7558614	NC_021165.1	Ca_kabuli_chr06	7558614	AA	CC	1946856881
SNP_P4_77970_7562826	NC_021165.1	Ca_kabuli_chr06	7562826	CC	TT	1946856883
SNP_P4_77971_7562865	NC_021165.1	Ca_kabuli_chr06	7562865	GG	AA	1946856885
SNP_P4_77972_7564186	NC_021165.1	Ca_kabuli_chr06	7564186	CC	TT	1946856887
SNP_P4_77973_7564657	NC_021165.1	Ca_kabuli_chr06	7564657	GG	AA	1946856889
SNP_P4_77975_7565534	NC_021165.1	Ca_kabuli_chr06	7565534	TT	AA	1946856891
SNP_P4_77976_7566480	NC_021165.1	Ca_kabuli_chr06	7566480	TT	AA	1946856893
SNP_P4_77977_7567212	NC_021165.1	Ca_kabuli_chr06	7567212	TT	AA	1946856895
SNP_P4_77978_7568709	NC_021165.1	Ca_kabuli_chr06	7568709	GG	AA	1946856897
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SNP_P4_77980_7569722	NC_021165.1	Ca_kabuli_chr06	7569722	GG	AA	1946856901
SNP_P4_77982_7571776	NC_021165.1	Ca_kabuli_chr06	7571776	CC	TT	1946856903
SNP_P4_77983_7571792	NC_021165.1	Ca_kabuli_chr06	7571792	AA	TT	1946856905
SNP_P4_77984_7573584	NC_021165.1	Ca_kabuli_chr06	7573584	AA	GG	1946856907
SNP_P4_77985_7575420	NC_021165.1	Ca_kabuli_chr06	7575420	AA	GG	1946856909
SNP_P4_77986_7575424	NC_021165.1	Ca_kabuli_chr06	7575424	CC	TT	1946856911
SNP_P4_77988_7579189	NC_021165.1	Ca_kabuli_chr06	7579189	GG	AA	1946856913
SNP_P4_77990_7579579	NC_021165.1	Ca_kabuli_chr06	7579579	TT	CC	1946856915
SNP_P4_77991_7579861	NC_021165.1	Ca_kabuli_chr06	7579861	GG	CC	1946856917
SNP_P4_77992_7580107	NC_021165.1	Ca_kabuli_chr06	7580107	TT	GG	1946856919
SNP_P4_77993_7580459	NC_021165.1	Ca_kabuli_chr06	7580459	GG	AA	1946856921
SNP_P4_77994_7581060	NC_021165.1	Ca_kabuli_chr06	7581060	AA	GG	1946856923
SNP_P4_77995_7581678	NC_021165.1	Ca_kabuli_chr06	7581678	TT	GG	1946856925
SNP_P4_77996_7582008	NC_021165.1	Ca_kabuli_chr06	7582008	AA	GG	1946856927
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SNP_P4_77998_7582252	NC_021165.1	Ca_kabuli_chr06	7582252	TT	GG	1946856932
SNP_P4_77999_7583022	NC_021165.1	Ca_kabuli_chr06	7583022	TT	CC	1946856934
SNP_P4_78000_7583538	NC_021165.1	Ca_kabuli_chr06	7583538	GG	AA	1946856936
SNP_P4_78001_7583682	NC_021165.1	Ca_kabuli_chr06	7583682	CC	TT	1946856937
SNP_P4_78002_7583728	NC_021165.1	Ca_kabuli_chr06	7583728	CC	TT	1946856939
SNP_P4_78003_7584103	NC_021165.1	Ca_kabuli_chr06	7584103	GG	TT	1946856941
SNP_P4_78004_7586103	NC_021165.1	Ca_kabuli_chr06	7586103	CC	GG	1946856943
SNP_P4_78006_7586269	NC_021165.1	Ca_kabuli_chr06	7586269	CC	TT	1946856945
SNP_P4_78008_7587121	NC_021165.1	Ca_kabuli_chr06	7587121	AA	GG	1946856947
SNP_P4_78009_7587165	NC_021165.1	Ca_kabuli_chr06	7587165	GG	AA	1946856949
SNP_P4_78010_7587195	NC_021165.1	Ca_kabuli_chr06	7587195	CC	GG	1946856951
SNP_P4_78012_7588145	NC_021165.1	Ca_kabuli_chr06	7588145	GG	AA	1946856953
SNP_P4_78014_7588371	NC_021165.1	Ca_kabuli_chr06	7588371	AA	GG	1946856955
SNP_P4_78015_7588373	NC_021165.1	Ca_kabuli_chr06	7588373	AA	GG	1946856957

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_78018_7590096	NC_021165.1	Ca_kabuli_chr06	7590096	CC	TT	1946856961
SNP_P4_78019_7590252	NC_021165.1	Ca_kabuli_chr06	7590252	TT	CC	1946856963
SNP_P4_78020_7590402	NC_021165.1	Ca_kabuli_chr06	7590402	GG	AA	1946856965
SNP_P4_78021_7590420	NC_021165.1	Ca_kabuli_chr06	7590420	CC	TT	1946856967
SNP_P4_78022_7590444	NC_021165.1	Ca_kabuli_chr06	7590444	AA	CC	1946856969
SNP_P4_78023_7590455	NC_021165.1	Ca_kabuli_chr06	7590455	AA	GG	1946856971
SNP_P4_78024_7593581	NC_021165.1	Ca_kabuli_chr06	7593581	TT	AA	1946856973
SNP_P4_78025_7593840	NC_021165.1	Ca_kabuli_chr06	7593840	GG	AA	1946856975
SNP_P4_78026_7593898	NC_021165.1	Ca_kabuli_chr06	7593898	CC	TT	1946856977
SNP_P4_78027_7594012	NC_021165.1	Ca_kabuli_chr06	7594012	TT	GG	1946856979
SNP_P4_78028_7594016	NC_021165.1	Ca_kabuli_chr06	7594016	CC	TT	1946856981
SNP_P4_78029_7594168	NC_021165.1	Ca_kabuli_chr06	7594168	GG	CC	1946856983
SNP_P4_78030_7594237	NC_021165.1	Ca_kabuli_chr06	7594237	TT	CC	1946856985
SNP_P4_78034_7595418	NC_021165.1	Ca_kabuli_chr06	7595418	GG	AA	1946856987
SNP_P4_78035_7596766	NC_021165.1	Ca_kabuli_chr06	7596766	TT	CC	1946856989
SNP_P4_78036_7596782	NC_021165.1	Ca_kabuli_chr06	7596782	CC	GG	1946856991
SNP_P4_78037_7596821	NC_021165.1	Ca_kabuli_chr06	7596821	CC	TT	1946856993
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SNP_P4_78041_7599353	NC_021165.1	Ca_kabuli_chr06	7599353	GG	AA	1946856999
SNP_P4_78042_7599435	NC_021165.1	Ca_kabuli_chr06	7599435	TT	CC	1946857001
SNP_P4_78044_7599763	NC_021165.1	Ca_kabuli_chr06	7599763	CC	TT	1946857003
SNP_P4_78045_7600817	NC_021165.1	Ca_kabuli_chr06	7600817	GG	AA	1946857005
SNP_P4_78046_7601120	NC_021165.1	Ca_kabuli_chr06	7601120	CC	TT	1946857007
SNP_P4_78047_7603436	NC_021165.1	Ca_kabuli_chr06	7603436	GG	AA	1946857009
SNP_P4_78048_7604344	NC_021165.1	Ca_kabuli_chr06	7604344	TT	AA	1946857011
SNP_P4_78049_7605560	NC_021165.1	Ca_kabuli_chr06	7605560	GG	AA	1946857013
SNP_P4_78050_7607196	NC_021165.1	Ca_kabuli_chr06	7607196	CC	GG	1946857015
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SNP_P4_78052_7608996	NC_021165.1	Ca_kabuli_chr06	7608996	GG	TT	1946857019
SNP_P4_78054_7609243	NC_021165.1	Ca_kabuli_chr06	7609243	AA	GG	1946857021
SNP_P4_78055_7609244	NC_021165.1	Ca_kabuli_chr06	7609244	AA	GG	1946857023
SNP_P4_78056_7610335	NC_021165.1	Ca_kabuli_chr06	7610335	TT	CC	1946857026
SNP_P4_78057_7610823	NC_021165.1	Ca_kabuli_chr06	7610823	CC	GG	1946857028
SNP_P4_78058_7610941	NC_021165.1	Ca_kabuli_chr06	7610941	TT	GG	1946857030
SNP_P4_78059_7611263	NC_021165.1	Ca_kabuli_chr06	7611263	GG	AA	1946857032
SNP_P4_78060_7611464	NC_021165.1	Ca_kabuli_chr06	7611464	TT	CC	1946857034
SNP_P4_78063_7612784	NC_021165.1	Ca_kabuli_chr06	7612784	TT	AA	1946857036
SNP_P4_78065_7612977	NC_021165.1	Ca_kabuli_chr06	7612977	GG	TT	1946857038
SNP_P4_78066_7613292	NC_021165.1	Ca_kabuli_chr06	7613292	CC	TT	1946857040
SNP_P4_78067_7613568	NC_021165.1	Ca_kabuli_chr06	7613568	TT	CC	1946857042

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_78069_7613577	NC_021165.1	Ca_kabuli_chr06	7613577	TT	GG	1946857046
SNP_P4_78070_7613615	NC_021165.1	Ca_kabuli_chr06	7613615	CC	TT	1946857047
SNP_P4_78072_7613874	NC_021165.1	Ca_kabuli_chr06	7613874	CC	AA	1946857049
SNP_P4_78073_7613906	NC_021165.1	Ca_kabuli_chr06	7613906	AA	GG	1946857051
SNP_P4_78074_7615454	NC_021165.1	Ca_kabuli_chr06	7615454	CC	TT	1946857053
SNP_P4_78075_7621672	NC_021165.1	Ca_kabuli_chr06	7621672	TT	AA	1946857055
SNP_P4_78076_7621736	NC_021165.1	Ca_kabuli_chr06	7621736	AA	CC	1946857057
SNP_P4_78077_7624384	NC_021165.1	Ca_kabuli_chr06	7624384	GG	AA	1946857059
SNP_P4_78078_7625866	NC_021165.1	Ca_kabuli_chr06	7625866	AA	GG	1946857061
SNP_P4_78079_7626159	NC_021165.1	Ca_kabuli_chr06	7626159	CC	TT	1946857063
SNP_P4_78081_7626579	NC_021165.1	Ca_kabuli_chr06	7626579	GG	AA	1946857065
SNP_P4_78082_7626909	NC_021165.1	Ca_kabuli_chr06	7626909	CC	TT	1946857067
SNP_P4_78084_7629102	NC_021165.1	Ca_kabuli_chr06	7629102	AA	GG	1946857069
SNP_P4_78085_7629205	NC_021165.1	Ca_kabuli_chr06	7629205	GG	AA	1946857071
SNP_P4_78086_7629207	NC_021165.1	Ca_kabuli_chr06	7629207	TT	CC	1946857073
SNP_P4_78087_7629795	NC_021165.1	Ca_kabuli_chr06	7629795	TT	GG	1946857075
SNP_P4_78088_7630971	NC_021165.1	Ca_kabuli_chr06	7630971	TT	CC	1946857077
SNP_P4_78090_7632724	NC_021165.1	Ca_kabuli_chr06	7632724	AA	GG	1946857079
SNP_P4_78091_7632732	NC_021165.1	Ca_kabuli_chr06	7632732	CC	GG	1946857081
SNP_P4_78092_7634008	NC_021165.1	Ca_kabuli_chr06	7634008	TT	CC	1946857083
SNP_P4_78094_7634080	NC_021165.1	Ca_kabuli_chr06	7634080	GG	TT	1946857085
SNP_P4_78095_7634969	NC_021165.1	Ca_kabuli_chr06	7634969	GG	AA	1946857087
SNP_P4_78096_7635021	NC_021165.1	Ca_kabuli_chr06	7635021	AA	TT	1946857089
SNP_P4_78097_7635280	NC_021165.1	Ca_kabuli_chr06	7635280	GG	AA	1946857091
SNP_P4_78098_7635282	NC_021165.1	Ca_kabuli_chr06	7635282	GG	TT	1946857093
SNP_P4_78099_7635298	NC_021165.1	Ca_kabuli_chr06	7635298	GG	AA	1946857095
SNP_P4_78100_7635831	NC_021165.1	Ca_kabuli_chr06	7635831	GG	CC	1946857097
SNP_P4_78101_7635837	NC_021165.1	Ca_kabuli_chr06	7635837	CC	TT	1946857099
SNP_P4_78102_7635842	NC_021165.1	Ca_kabuli_chr06	7635842	CC	TT	1946857101
SNP_P4_78103_7636156	NC_021165.1	Ca_kabuli_chr06	7636156	CC	TT	1946857103
SNP_P4_78104_7636230	NC_021165.1	Ca_kabuli_chr06	7636230	TT	GG	1946857105
SNP_P4_78106_7636250	NC_021165.1	Ca_kabuli_chr06	7636250	CC	GG	1946857107
SNP_P4_78107_7638717	NC_021165.1	Ca_kabuli_chr06	7638717	TT	CC	1946857109
SNP_P4_78111_7641907	NC_021165.1	Ca_kabuli_chr06	7641907	AA	GG	1946857111
SNP_P4_78112_7641934	NC_021165.1	Ca_kabuli_chr06	7641934	TT	CC	1946857113
SNP_P4_78113_7642913	NC_021165.1	Ca_kabuli_chr06	7642913	GG	TT	1946857115
SNP_P4_78114_7642930	NC_021165.1	Ca_kabuli_chr06	7642930	TT	CC	1946857117
SNP_P4_78115_7642960	NC_021165.1	Ca_kabuli_chr06	7642960	AA	TT	1946857119
SNP_P4_78116_7643232	NC_021165.1	Ca_kabuli_chr06	7643232	AA	GG	1946857121
SNP_P4_78118_7643313	NC_021165.1	Ca_kabuli_chr06	7643313	TT	CC	1946857123
SNP_P4_78120_7643440	NC_021165.1	Ca_kabuli_chr06	7643440	TT	GG	1946857125

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_78124_7643641	NC_021165.1	Ca_kabuli_chr06	7643641	AA	GG	1946857130
SNP_P4_78125_7643684	NC_021165.1	Ca_kabuli_chr06	7643684	AA	GG	1946857132
SNP_P4_78126_7644510	NC_021165.1	Ca_kabuli_chr06	7644510	CC	GG	1946857134
SNP_P4_78127_7644707	NC_021165.1	Ca_kabuli_chr06	7644707	AA	CC	1946857136
SNP_P4_78129_7645115	NC_021165.1	Ca_kabuli_chr06	7645115	TT	AA	1946857138
SNP_P4_78130_7645975	NC_021165.1	Ca_kabuli_chr06	7645975	TT	AA	1946857140
SNP_P4_78132_7648108	NC_021165.1	Ca_kabuli_chr06	7648108	TT	CC	1946857142
SNP_P4_78135_7651130	NC_021165.1	Ca_kabuli_chr06	7651130	AA	GG	1946857144
SNP_P4_78137_7651982	NC_021165.1	Ca_kabuli_chr06	7651982	CC	TT	1946857146
SNP_P4_78138_7651989	NC_021165.1	Ca_kabuli_chr06	7651989	TT	AA	1946857148
SNP_P4_78139_7652142	NC_021165.1	Ca_kabuli_chr06	7652142	AA	CC	1946857150
SNP_P4_78140_7652147	NC_021165.1	Ca_kabuli_chr06	7652147	AA	GG	1946857152
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SNP_P4_78143_7655980	NC_021165.1	Ca_kabuli_chr06	7655980	TT	GG	1946857156
SNP_P4_78144_7656252	NC_021165.1	Ca_kabuli_chr06	7656252	AA	TT	1946857158
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SNP_P4_78146_7656281	NC_021165.1	Ca_kabuli_chr06	7656281	CC	TT	1946857162
SNP_P4_78147_7656302	NC_021165.1	Ca_kabuli_chr06	7656302	TT	CC	1946857164
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SNP_P4_78149_7657382	NC_021165.1	Ca_kabuli_chr06	7657382	TT	CC	1946857168
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SNP_P4_78156_7660612	NC_021165.1	Ca_kabuli_chr06	7660612	AA	TT	1946857182
SNP_P4_78157_7660660	NC_021165.1	Ca_kabuli_chr06	7660660	CC	TT	1946857185
SNP_P4_78159_7660768	NC_021165.1	Ca_kabuli_chr06	7660768	AA	CC	1946857187
SNP_P4_78160_7660814	NC_021165.1	Ca_kabuli_chr06	7660814	GG	AA	1946857189
SNP_P4_78161_7660875	NC_021165.1	Ca_kabuli_chr06	7660875	AA	GG	1946857191
SNP_P4_78162_7660894	NC_021165.1	Ca_kabuli_chr06	7660894	CC	TT	1946857193
SNP_P4_78163_7660922	NC_021165.1	Ca_kabuli_chr06	7660922	CC	TT	1946857195
SNP_P4_78165_7663045	NC_021165.1	Ca_kabuli_chr06	7663045	AA	TT	1946857197
SNP_P4_78166_7664403	NC_021165.1	Ca_kabuli_chr06	7664403	AA	GG	1946857199
SNP_P4_78167_7664647	NC_021165.1	Ca_kabuli_chr06	7664647	CC	GG	1946857201
SNP_P4_78168_7664715	NC_021165.1	Ca_kabuli_chr06	7664715	TT	AA	1946857203
SNP_P4_78169_7664716	NC_021165.1	Ca_kabuli_chr06	7664716	TT	CC	1946857206
SNP_P4_78171_7664919	NC_021165.1	Ca_kabuli_chr06	7664919	CC	TT	1946857208
SNP_P4_78172_7664925	NC_021165.1	Ca_kabuli_chr06	7664925	CC	TT	1946857210

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_78176_7665670	NC_021165.1	Ca_kabuli_chr06	7665670	CC	TT	1946857214
SNP_P4_78177_7668474	NC_021165.1	Ca_kabuli_chr06	7668474	TT	AA	1946857216
SNP_P4_78178_7668494	NC_021165.1	Ca_kabuli_chr06	7668494	CC	TT	1946857218
SNP_P4_78179_7668738	NC_021165.1	Ca_kabuli_chr06	7668738	AA	GG	1946857220
SNP_P4_78180_7668775	NC_021165.1	Ca_kabuli_chr06	7668775	TT	CC	1946857223
SNP_P4_78181_7668970	NC_021165.1	Ca_kabuli_chr06	7668970	TT	AA	1946857225
SNP_P4_78182_7669001	NC_021165.1	Ca_kabuli_chr06	7669001	GG	AA	1946857227
SNP_P4_78183_7669424	NC_021165.1	Ca_kabuli_chr06	7669424	GG	TT	1946857229
SNP_P4_78184_7669451	NC_021165.1	Ca_kabuli_chr06	7669451	AA	TT	1946857231
SNP_P4_78185_7669452	NC_021165.1	Ca_kabuli_chr06	7669452	TT	AA	1946857233
SNP_P4_78186_7669846	NC_021165.1	Ca_kabuli_chr06	7669846	AA	TT	1946857235
SNP_P4_78187_7669847	NC_021165.1	Ca_kabuli_chr06	7669847	AA	CC	1946857237
SNP_P4_78188_7669906	NC_021165.1	Ca_kabuli_chr06	7669906	AA	GG	1946857239
SNP_P4_78189_7669922	NC_021165.1	Ca_kabuli_chr06	7669922	TT	CC	1946857241
SNP_P4_78190_7669995	NC_021165.1	Ca_kabuli_chr06	7669995	CC	TT	1946857243
SNP_P4_78191_7670166	NC_021165.1	Ca_kabuli_chr06	7670166	TT	AA	1946857245
SNP_P4_78193_7670222	NC_021165.1	Ca_kabuli_chr06	7670222	AA	TT	1946857247
SNP_P4_78195_7670347	NC_021165.1	Ca_kabuli_chr06	7670347	CC	TT	1946857249
SNP_P4_78196_7673202	NC_021165.1	Ca_kabuli_chr06	7673202	TT	CC	1946857251
SNP_P4_78197_7674627	NC_021165.1	Ca_kabuli_chr06	7674627	AA	GG	1946857253
SNP_P4_78198_7675687	NC_021165.1	Ca_kabuli_chr06	7675687	AA	TT	1946857255
SNP_P4_78199_7678948	NC_021165.1	Ca_kabuli_chr06	7678948	AA	TT	1946857257
SNP_P4_78200_7679015	NC_021165.1	Ca_kabuli_chr06	7679015	TT	CC	1946857259
SNP_P4_78201_7679290	NC_021165.1	Ca_kabuli_chr06	7679290	CC	TT	1946857261
SNP_P4_78202_7686028	NC_021165.1	Ca_kabuli_chr06	7686028	CC	TT	1946857262
SNP_P4_78203_7687543	NC_021165.1	Ca_kabuli_chr06	7687543	GG	AA	1946857264
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SNP_P4_78206_7689126	NC_021165.1	Ca_kabuli_chr06	7689126	GG	AA	1946857268
SNP_P4_78208_7690681	NC_021165.1	Ca_kabuli_chr06	7690681	TT	GG	1946857270
SNP_P4_78210_7691837	NC_021165.1	Ca_kabuli_chr06	7691837	TT	AA	1946857272
SNP_P4_78211_7692431	NC_021165.1	Ca_kabuli_chr06	7692431	GG	TT	1946857274
SNP_P4_78212_7694944	NC_021165.1	Ca_kabuli_chr06	7694944	CC	AA	1946857276
SNP_P4_78213_7694961	NC_021165.1	Ca_kabuli_chr06	7694961	CC	GG	1946857278
SNP_P4_78215_7695446	NC_021165.1	Ca_kabuli_chr06	7695446	CC	AA	1946857280
SNP_P4_78216_7696024	NC_021165.1	Ca_kabuli_chr06	7696024	TT	AA	1946857282
SNP_P4_78217_7696855	NC_021165.1	Ca_kabuli_chr06	7696855	AA	TT	1946857284
SNP_P4_78218_7697026	NC_021165.1	Ca_kabuli_chr06	7697026	GG	AA	1946857286
SNP_P4_78219_7698928	NC_021165.1	Ca_kabuli_chr06	7698928	CC	TT	1946857288
SNP_P4_78221_7700204	NC_021165.1	Ca_kabuli_chr06	7700204	GG	AA	1946857289
SNP_P4_78222_7701058	NC_021165.1	Ca_kabuli_chr06	7701058	CC	TT	1946857291
SNP_P4_78223_7701741	NC_021165.1	Ca_kabuli_chr06	7701741	GG	AA	1946857294

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_78225_7703594	NC_021165.1	Ca_kabuli_chr06	7703594	AA	GG	1946857298
SNP_P4_78226_7703702	NC_021165.1	Ca_kabuli_chr06	7703702	GG	AA	1946857299
SNP_P4_78227_7703981	NC_021165.1	Ca_kabuli_chr06	7703981	AA	GG	1946857301
SNP_P4_78228_7703987	NC_021165.1	Ca_kabuli_chr06	7703987	GG	AA	1946857303
SNP_P4_78229_7704573	NC_021165.1	Ca_kabuli_chr06	7704573	CC	TT	1946857305
SNP_P4_78232_7706430	NC_021165.1	Ca_kabuli_chr06	7706430	AA	TT	1946857307
SNP_P4_78233_7706467	NC_021165.1	Ca_kabuli_chr06	7706467	CC	TT	1946857309
SNP_P4_78234_7706469	NC_021165.1	Ca_kabuli_chr06	7706469	CC	AA	1946857311
SNP_P4_78235_7706491	NC_021165.1	Ca_kabuli_chr06	7706491	CC	TT	1946857313
SNP_P4_78236_7706511	NC_021165.1	Ca_kabuli_chr06	7706511	AA	TT	1946857315
SNP_P4_78237_7707660	NC_021165.1	Ca_kabuli_chr06	7707660	TT	CC	1946857317
SNP_P4_78239_7708394	NC_021165.1	Ca_kabuli_chr06	7708394	CC	TT	1946857319
SNP_P4_78241_7708942	NC_021165.1	Ca_kabuli_chr06	7708942	AA	TT	1946857321
SNP_P4_78242_7709245	NC_021165.1	Ca_kabuli_chr06	7709245	AA	CC	1946857323
SNP_P4_78243_7709507	NC_021165.1	Ca_kabuli_chr06	7709507	GG	AA	1946857325
SNP_P4_78244_7709534	NC_021165.1	Ca_kabuli_chr06	7709534	CC	AA	1946857327
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SNP_P4_78247_7709591	NC_021165.1	Ca_kabuli_chr06	7709591	GG	AA	1946857333
SNP_P4_78248_7709930	NC_021165.1	Ca_kabuli_chr06	7709930	AA	GG	1946857335
SNP_P4_78249_7710162	NC_021165.1	Ca_kabuli_chr06	7710162	TT	CC	1946857337
SNP_P4_78250_7710482	NC_021165.1	Ca_kabuli_chr06	7710482	TT	CC	1946857339
SNP_P4_78251_7711012	NC_021165.1	Ca_kabuli_chr06	7711012	AA	GG	1946857341
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SNP_P4_78255_7713429	NC_021165.1	Ca_kabuli_chr06	7713429	TT	AA	1946857345
SNP_P4_78256_7713430	NC_021165.1	Ca_kabuli_chr06	7713430	AA	CC	1946857347
SNP_P4_78257_7713711	NC_021165.1	Ca_kabuli_chr06	7713711	TT	CC	1946857349
SNP_P4_78258_7713851	NC_021165.1	Ca_kabuli_chr06	7713851	TT	AA	1946857351
SNP_P4_78260_7714008	NC_021165.1	Ca_kabuli_chr06	7714008	CC	TT	1946857353
SNP_P4_78261_7714029	NC_021165.1	Ca_kabuli_chr06	7714029	TT	GG	1946857355
SNP_P4_78262_7714032	NC_021165.1	Ca_kabuli_chr06	7714032	CC	GG	1946857357
SNP_P4_78263_7714040	NC_021165.1	Ca_kabuli_chr06	7714040	AA	CC	1946857359
SNP_P4_78264_7714044	NC_021165.1	Ca_kabuli_chr06	7714044	GG	AA	1946857361
SNP_P4_78265_7714051	NC_021165.1	Ca_kabuli_chr06	7714051	CC	TT	1946857363
SNP_P4_78266_7714097	NC_021165.1	Ca_kabuli_chr06	7714097	GG	AA	1946857365
SNP_P4_78267_7714109	NC_021165.1	Ca_kabuli_chr06	7714109	TT	CC	1946857367
SNP_P4_78268_7714144	NC_021165.1	Ca_kabuli_chr06	7714144	AA	CC	1946857369
SNP_P4_78269_7714247	NC_021165.1	Ca_kabuli_chr06	7714247	GG	AA	1946857371
SNP_P4_78270_7714319	NC_021165.1	Ca_kabuli_chr06	7714319	AA	TT	1946857373
SNP_P4_78271_7714327	NC_021165.1	Ca_kabuli_chr06	7714327	GG	AA	1946857375
SNP_P4_78272_7714338	NC_021165.1	Ca_kabuli_chr06	7714338	CC	TT	1946857377

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_78275_7714393	NC_021165.1	Ca_kabuli_chr06	7714393	TT	GG	1946857384
SNP_P4_78276_7714412	NC_021165.1	Ca_kabuli_chr06	7714412	GG	AA	1946857386
SNP_P4_78277_7715867	NC_021165.1	Ca_kabuli_chr06	7715867	AA	GG	1946857388
SNP_P4_78278_7716762	NC_021165.1	Ca_kabuli_chr06	7716762	AA	TT	1946857390
SNP_P4_78279_7716783	NC_021165.1	Ca_kabuli_chr06	7716783	TT	CC	1946857392
SNP_P4_78280_7716788	NC_021165.1	Ca_kabuli_chr06	7716788	GG	AA	1946857395
SNP_P4_78281_7716987	NC_021165.1	Ca_kabuli_chr06	7716987	CC	TT	1946857397
SNP_P4_78282_7717005	NC_021165.1	Ca_kabuli_chr06	7717005	TT	CC	1946857399
SNP_P4_78283_7717016	NC_021165.1	Ca_kabuli_chr06	7717016	CC	TT	1946857401
SNP_P4_78284_7717017	NC_021165.1	Ca_kabuli_chr06	7717017	GG	AA	1946857403
SNP_P4_78285_7717039	NC_021165.1	Ca_kabuli_chr06	7717039	CC	TT	1946857405
SNP_P4_78286_7717048	NC_021165.1	Ca_kabuli_chr06	7717048	AA	GG	1946857407
SNP_P4_78287_7717052	NC_021165.1	Ca_kabuli_chr06	7717052	GG	AA	1946857409
SNP_P4_78288_7717093	NC_021165.1	Ca_kabuli_chr06	7717093	TT	CC	1946857411
SNP_P4_78289_7717094	NC_021165.1	Ca_kabuli_chr06	7717094	CC	GG	1946857413
SNP_P4_78290_7717097	NC_021165.1	Ca_kabuli_chr06	7717097	AA	GG	1946857415
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SNP_P4_78292_7717115	NC_021165.1	Ca_kabuli_chr06	7717115	TT	GG	1946857420
SNP_P4_78293_7717154	NC_021165.1	Ca_kabuli_chr06	7717154	GG	AA	1946857422
SNP_P4_78294_7718370	NC_021165.1	Ca_kabuli_chr06	7718370	AA	CC	1946857424
SNP_P4_78295_7718399	NC_021165.1	Ca_kabuli_chr06	7718399	GG	AA	1946857426
SNP_P4_78296_7718445	NC_021165.1	Ca_kabuli_chr06	7718445	CC	TT	1946857428
SNP_P4_78297_7718450	NC_021165.1	Ca_kabuli_chr06	7718450	TT	GG	1946857430
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SNP_P4_78302_7720096	NC_021165.1	Ca_kabuli_chr06	7720096	GG	CC	1946857438
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SNP_P4_78305_7722430	NC_021165.1	Ca_kabuli_chr06	7722430	AA	CC	1946857444
SNP_P4_78306_7722731	NC_021165.1	Ca_kabuli_chr06	7722731	AA	GG	1946857446
SNP_P4_78308_7723155	NC_021165.1	Ca_kabuli_chr06	7723155	TT	AA	1946857448
SNP_P4_78310_7723950	NC_021165.1	Ca_kabuli_chr06	7723950	GG	AA	1946857450
SNP_P4_78311_7726452	NC_021165.1	Ca_kabuli_chr06	7726452	AA	GG	1946857452
SNP_P4_78312_7726734	NC_021165.1	Ca_kabuli_chr06	7726734	AA	TT	1946857454
SNP_P4_78313_7727431	NC_021165.1	Ca_kabuli_chr06	7727431	GG	AA	1946857457
SNP_P4_78314_7727898	NC_021165.1	Ca_kabuli_chr06	7727898	CC	GG	1946857459
SNP_P4_78315_7728685	NC_021165.1	Ca_kabuli_chr06	7728685	AA	TT	1946857461
SNP_P4_78316_7728686	NC_021165.1	Ca_kabuli_chr06	7728686	GG	AA	1946857463
SNP_P4_78317_7728988	NC_021165.1	Ca_kabuli_chr06	7728988	TT	GG	1946857465

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_78319_7729257	NC_021165.1	Ca_kabuli_chr06	7729257	GG	TT	1946857469
SNP_P4_78320_7729264	NC_021165.1	Ca_kabuli_chr06	7729264	GG	AA	1946857471
SNP_P4_78322_7729345	NC_021165.1	Ca_kabuli_chr06	7729345	TT	GG	1946857473
SNP_P4_78323_7729362	NC_021165.1	Ca_kabuli_chr06	7729362	AA	GG	1946857475
SNP_P4_78324_7729549	NC_021165.1	Ca_kabuli_chr06	7729549	GG	CC	1946857477
SNP_P4_78325_7729611	NC_021165.1	Ca_kabuli_chr06	7729611	GG	TT	1946857479
SNP_P4_78326_7729642	NC_021165.1	Ca_kabuli_chr06	7729642	TT	AA	1946857481
SNP_P4_78327_7729662	NC_021165.1	Ca_kabuli_chr06	7729662	CC	TT	1946857483
SNP_P4_78328_7729846	NC_021165.1	Ca_kabuli_chr06	7729846	AA	GG	1946857485
SNP_P4_78329_7729863	NC_021165.1	Ca_kabuli_chr06	7729863	AA	GG	1946857487
SNP_P4_78330_7730615	NC_021165.1	Ca_kabuli_chr06	7730615	AA	TT	1946857489
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SNP_P4_78335_7731014	NC_021165.1	Ca_kabuli_chr06	7731014	GG	CC	1946857499
SNP_P4_78336_7731026	NC_021165.1	Ca_kabuli_chr06	7731026	AA	GG	1946857501
SNP_P4_78337_7731525	NC_021165.1	Ca_kabuli_chr06	7731525	CC	AA	1946857503
SNP_P4_78338_7732116	NC_021165.1	Ca_kabuli_chr06	7732116	AA	GG	1946857505
SNP_P4_78341_7734345	NC_021165.1	Ca_kabuli_chr06	7734345	GG	AA	1946857507
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SNP_P4_78346_7736652	NC_021165.1	Ca_kabuli_chr06	7736652	CC	GG	1946857513
SNP_P4_78347_7737189	NC_021165.1	Ca_kabuli_chr06	7737189	TT	CC	1946857515
SNP_P4_78348_7737352	NC_021165.1	Ca_kabuli_chr06	7737352	GG	TT	1946857517
SNP_P4_78349_7737381	NC_021165.1	Ca_kabuli_chr06	7737381	GG	TT	1946857519
SNP_P4_78350_7737382	NC_021165.1	Ca_kabuli_chr06	7737382	CC	AA	1946857521
SNP_P4_78351_7737479	NC_021165.1	Ca_kabuli_chr06	7737479	CC	TT	1946857523
SNP_P4_78352_7737541	NC_021165.1	Ca_kabuli_chr06	7737541	AA	GG	1946857525
SNP_P4_78353_7737554	NC_021165.1	Ca_kabuli_chr06	7737554	TT	GG	1946857527
SNP_P4_78354_7737697	NC_021165.1	Ca_kabuli_chr06	7737697	CC	TT	1946857529
SNP_P4_78355_7737702	NC_021165.1	Ca_kabuli_chr06	7737702	TT	CC	1946857531
SNP_P4_78356_7737715	NC_021165.1	Ca_kabuli_chr06	7737715	AA	GG	1946857533
SNP_P4_78357_7737762	NC_021165.1	Ca_kabuli_chr06	7737762	TT	CC	1946857535
SNP_P4_78358_7737786	NC_021165.1	Ca_kabuli_chr06	7737786	TT	GG	1946857537
SNP_P4_78359_7737793	NC_021165.1	Ca_kabuli_chr06	7737793	TT	GG	1946857539
SNP_P4_78360_7737845	NC_021165.1	Ca_kabuli_chr06	7737845	CC	TT	1946857541
SNP_P4_78361_7737909	NC_021165.1	Ca_kabuli_chr06	7737909	TT	CC	1946857543
SNP_P4_78363_7738077	NC_021165.1	Ca_kabuli_chr06	7738077	TT	CC	1946857545
SNP_P4_78364_7738206	NC_021165.1	Ca_kabuli_chr06	7738206	AA	GG	1946857547
SNP_P4_78365_7738248	NC_021165.1	Ca_kabuli_chr06	7738248	TT	CC	1946857549

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_78367_7738287	NC_021165.1	Ca_kabuli_chr06	7738287	TT	GG	1946857553
SNP_P4_78368_7738350	NC_021165.1	Ca_kabuli_chr06	7738350	AA	GG	1946857555
SNP_P4_78369_7738464	NC_021165.1	Ca_kabuli_chr06	7738464	TT	CC	1946857557
SNP_P4_78370_7738465	NC_021165.1	Ca_kabuli_chr06	7738465	CC	TT	1946857559
SNP_P4_78371_7738491	NC_021165.1	Ca_kabuli_chr06	7738491	CC	TT	1946857561
SNP_P4_78372_7738847	NC_021165.1	Ca_kabuli_chr06	7738847	TT	CC	1946857563
SNP_P4_78373_7738855	NC_021165.1	Ca_kabuli_chr06	7738855	CC	AA	1946857565
SNP_P4_78374_7738859	NC_021165.1	Ca_kabuli_chr06	7738859	CC	TT	1946857567
SNP_P4_78375_7739141	NC_021165.1	Ca_kabuli_chr06	7739141	TT	AA	1946857569
SNP_P4_78376_7739152	NC_021165.1	Ca_kabuli_chr06	7739152	CC	AA	1946857571
SNP_P4_78377_7739160	NC_021165.1	Ca_kabuli_chr06	7739160	AA	GG	1946857573
SNP_P4_78378_7739329	NC_021165.1	Ca_kabuli_chr06	7739329	CC	TT	1946857575
SNP_P4_78379_7739346	NC_021165.1	Ca_kabuli_chr06	7739346	GG	AA	1946857577
SNP_P4_78380_7739348	NC_021165.1	Ca_kabuli_chr06	7739348	TT	CC	1946857579
SNP_P4_78381_7739530	NC_021165.1	Ca_kabuli_chr06	7739530	TT	CC	1946857581
SNP_P4_78382_7739531	NC_021165.1	Ca_kabuli_chr06	7739531	TT	CC	1946857583
SNP_P4_78383_7739572	NC_021165.1	Ca_kabuli_chr06	7739572	CC	TT	1946857585
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SNP_P4_78386_7739855	NC_021165.1	Ca_kabuli_chr06	7739855	GG	TT	1946857591
SNP_P4_78387_7741267	NC_021165.1	Ca_kabuli_chr06	7741267	GG	AA	1946857594
SNP_P4_78388_7742010	NC_021165.1	Ca_kabuli_chr06	7742010	TT	CC	1946857596
SNP_P4_78389_7743429	NC_021165.1	Ca_kabuli_chr06	7743429	TT	CC	1946857598
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SNP_P4_78398_7750383	NC_021165.1	Ca_kabuli_chr06	7750383	TT	CC	1946857613
SNP_P4_78399_7750986	NC_021165.1	Ca_kabuli_chr06	7750986	AA	TT	1946857615
SNP_P4_78400_7751039	NC_021165.1	Ca_kabuli_chr06	7751039	AA	CC	1946857617
SNP_P4_78401_7751100	NC_021165.1	Ca_kabuli_chr06	7751100	GG	CC	1946857619
SNP_P4_78402_7752337	NC_021165.1	Ca_kabuli_chr06	7752337	TT	CC	1946857621
SNP_P4_78403_7752658	NC_021165.1	Ca_kabuli_chr06	7752658	GG	AA	1946857623
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SNP_P4_78405_7753941	NC_021165.1	Ca_kabuli_chr06	7753941	TT	AA	1946857627
SNP_P4_78406_7755382	NC_021165.1	Ca_kabuli_chr06	7755382	CC	AA	1946857629
SNP_P4_78407_7759206	NC_021165.1	Ca_kabuli_chr06	7759206	AA	TT	1946857631
SNP_P4_78408_7759227	NC_021165.1	Ca_kabuli_chr06	7759227	GG	AA	1946857633

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_78411_7766924	NC_021165.1	Ca_kabuli_chr06	7766924	GG	TT	1946857637
SNP_P4_78413_7769938	NC_021165.1	Ca_kabuli_chr06	7769938	AA	TT	1946857639
SNP_P4_78414_7770357	NC_021165.1	Ca_kabuli_chr06	7770357	CC	TT	1946857641
SNP_P4_78415_7772943	NC_021165.1	Ca_kabuli_chr06	7772943	CC	AA	1946857643
SNP_P4_78416_7773113	NC_021165.1	Ca_kabuli_chr06	7773113	TT	CC	1946857645
SNP_P4_78418_7773527	NC_021165.1	Ca_kabuli_chr06	7773527	CC	TT	1946857647
SNP_P4_78419_7773990	NC_021165.1	Ca_kabuli_chr06	7773990	TT	CC	1946857649
SNP_P4_78420_7774893	NC_021165.1	Ca_kabuli_chr06	7774893	GG	AA	1946857651
SNP_P4_78421_7775315	NC_021165.1	Ca_kabuli_chr06	7775315	CC	TT	1946857653
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SNP_P4_78424_7777042	NC_021165.1	Ca_kabuli_chr06	7777042	GG	AA	1946857657
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SNP_P4_78426_7777986	NC_021165.1	Ca_kabuli_chr06	7777986	CC	TT	1946857661
SNP_P4_78427_7779956	NC_021165.1	Ca_kabuli_chr06	7779956	GG	AA	1946857663
SNP_P4_78428_7779967	NC_021165.1	Ca_kabuli_chr06	7779967	TT	CC	1946857665
SNP_P4_78429_7780323	NC_021165.1	Ca_kabuli_chr06	7780323	TT	CC	1946857667
SNP_P4_78430_7781115	NC_021165.1	Ca_kabuli_chr06	7781115	AA	GG	1946857669
SNP_P4_78432_7783814	NC_021165.1	Ca_kabuli_chr06	7783814	CC	GG	1946857671
SNP_P4_78433_7785026	NC_021165.1	Ca_kabuli_chr06	7785026	TT	CC	1946857673
SNP_P4_78434_7785373	NC_021165.1	Ca_kabuli_chr06	7785373	CC	TT	1946857675
SNP_P4_78435_7785414	NC_021165.1	Ca_kabuli_chr06	7785414	GG	TT	1946857677
SNP_P4_78436_7786412	NC_021165.1	Ca_kabuli_chr06	7786412	TT	AA	1946857679
SNP_P4_78437_7788799	NC_021165.1	Ca_kabuli_chr06	7788799	TT	CC	1946857681
SNP_P4_78438_7788813	NC_021165.1	Ca_kabuli_chr06	7788813	TT	CC	1946857683
SNP_P4_78439_7788816	NC_021165.1	Ca_kabuli_chr06	7788816	CC	AA	1946857685
SNP_P4_78440_7789687	NC_021165.1	Ca_kabuli_chr06	7789687	TT	AA	1946857687
SNP_P4_78441_7789826	NC_021165.1	Ca_kabuli_chr06	7789826	GG	CC	1946857689
SNP_P4_78442_7789834	NC_021165.1	Ca_kabuli_chr06	7789834	AA	GG	1946857691
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SNP_P4_78444_7790044	NC_021165.1	Ca_kabuli_chr06	7790044	AA	GG	1946857695
SNP_P4_78445_7790046	NC_021165.1	Ca_kabuli_chr06	7790046	AA	TT	1946857697
SNP_P4_78446_7790115	NC_021165.1	Ca_kabuli_chr06	7790115	GG	AA	1946857699
SNP_P4_78447_7790166	NC_021165.1	Ca_kabuli_chr06	7790166	AA	GG	1946857701
SNP_P4_78448_7793139	NC_021165.1	Ca_kabuli_chr06	7793139	AA	TT	1946857703
SNP_P4_78449_7797625	NC_021165.1	Ca_kabuli_chr06	7797625	CC	TT	1946857705
SNP_P4_78450_7798844	NC_021165.1	Ca_kabuli_chr06	7798844	CC	AA	1946857707
SNP_P4_78451_7798845	NC_021165.1	Ca_kabuli_chr06	7798845	AA	TT	1946857709
SNP_P4_78452_7798846	NC_021165.1	Ca_kabuli_chr06	7798846	TT	AA	1946857711
SNP_P4_78453_7798952	NC_021165.1	Ca_kabuli_chr06	7798952	CC	GG	1946857713
SNP_P4_78454_7798965	NC_021165.1	Ca_kabuli_chr06	7798965	GG	TT	1946857715
SNP_P4_78455_7799134	NC_021165.1	Ca_kabuli_chr06	7799134	TT	CC	1946857717

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_78457_7799239	NC_021165.1	Ca_kabuli_chr06	7799239	CC	TT	1946857721
SNP_P4_78458_7799246	NC_021165.1	Ca_kabuli_chr06	7799246	GG	AA	1946857723
SNP_P4_78459_7799251	NC_021165.1	Ca_kabuli_chr06	7799251	TT	CC	1946857725
SNP_P4_78460_7799254	NC_021165.1	Ca_kabuli_chr06	7799254	TT	AA	1946857727
SNP_P4_78461_7799267	NC_021165.1	Ca_kabuli_chr06	7799267	GG	TT	1946857729
SNP_P4_78462_7799275	NC_021165.1	Ca_kabuli_chr06	7799275	GG	AA	1946857731
SNP_P4_78464_7799648	NC_021165.1	Ca_kabuli_chr06	7799648	TT	AA	1946857733
SNP_P4_78465_7800104	NC_021165.1	Ca_kabuli_chr06	7800104	AA	TT	1946857735
SNP_P4_78466_7801573	NC_021165.1	Ca_kabuli_chr06	7801573	AA	TT	1946857737
SNP_P4_78468_7801593	NC_021165.1	Ca_kabuli_chr06	7801593	GG	AA	1946857739
SNP_P4_78469_7801599	NC_021165.1	Ca_kabuli_chr06	7801599	GG	AA	1946857741
SNP_P4_78471_7803335	NC_021165.1	Ca_kabuli_chr06	7803335	AA	GG	1946857743
SNP_P4_78472_7803349	NC_021165.1	Ca_kabuli_chr06	7803349	GG	AA	1946857745
SNP_P4_78473_7803453	NC_021165.1	Ca_kabuli_chr06	7803453	CC	AA	1946857748
SNP_P4_78474_7803477	NC_021165.1	Ca_kabuli_chr06	7803477	TT	CC	1946857750
SNP_P4_78475_7803540	NC_021165.1	Ca_kabuli_chr06	7803540	TT	AA	1946857752
SNP_P4_78476_7803851	NC_021165.1	Ca_kabuli_chr06	7803851	TT	CC	1946857754
SNP_P4_78477_7806339	NC_021165.1	Ca_kabuli_chr06	7806339	TT	CC	1946857757
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SNP_P4_78482_7807086	NC_021165.1	Ca_kabuli_chr06	7807086	CC	GG	1946857763
SNP_P4_78483_7807498	NC_021165.1	Ca_kabuli_chr06	7807498	AA	GG	1946857765
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SNP_P4_78485_7812784	NC_021165.1	Ca_kabuli_chr06	7812784	TT	GG	1946857769
SNP_P4_78487_7813146	NC_021165.1	Ca_kabuli_chr06	7813146	GG	AA	1946857771
SNP_P4_78488_7813177	NC_021165.1	Ca_kabuli_chr06	7813177	TT	CC	1946857773
SNP_P4_78489_7813663	NC_021165.1	Ca_kabuli_chr06	7813663	TT	AA	1946857775
SNP_P4_78490_7813666	NC_021165.1	Ca_kabuli_chr06	7813666	GG	TT	1946857777
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SNP_P4_78492_7814050	NC_021165.1	Ca_kabuli_chr06	7814050	CC	TT	1946857781
SNP_P4_78493_7814058	NC_021165.1	Ca_kabuli_chr06	7814058	AA	GG	1946857783
SNP_P4_78495_7814288	NC_021165.1	Ca_kabuli_chr06	7814288	CC	GG	1946857785
SNP_P4_78496_7814292	NC_021165.1	Ca_kabuli_chr06	7814292	TT	CC	1946857787
SNP_P4_78497_7815424	NC_021165.1	Ca_kabuli_chr06	7815424	GG	TT	1946857789
SNP_P4_78498_7815572	NC_021165.1	Ca_kabuli_chr06	7815572	GG	AA	1946857791
SNP_P4_78499_7815589	NC_021165.1	Ca_kabuli_chr06	7815589	CC	AA	1946857793
SNP_P4_78500_7815625	NC_021165.1	Ca_kabuli_chr06	7815625	TT	GG	1946857795
SNP_P4_78501_7815700	NC_021165.1	Ca_kabuli_chr06	7815700	AA	TT	1946857797
SNP_P4_78502_7815708	NC_021165.1	Ca_kabuli_chr06	7815708	GG	TT	1946857799
SNP_P4_78503_7815724	NC_021165.1	Ca_kabuli_chr06	7815724	CC	AA	1946857801
SNP_P4_78504_7815783	NC_021165.1	Ca_kabuli_chr06	7815783	GG	AA	1946857803

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_78507_7815956	NC_021165.1	Ca_kabuli_chr06	7815956	AA	GG	1946857809
SNP_P4_78508_7815973	NC_021165.1	Ca_kabuli_chr06	7815973	TT	CC	1946857810
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SNP_P4_78510_7815993	NC_021165.1	Ca_kabuli_chr06	7815993	AA	TT	1946857814
SNP_P4_78511_7816134	NC_021165.1	Ca_kabuli_chr06	7816134	TT	GG	1946857816
SNP_P4_78512_7817205	NC_021165.1	Ca_kabuli_chr06	7817205	CC	TT	1946857818
SNP_P4_78513_7817222	NC_021165.1	Ca_kabuli_chr06	7817222	AA	GG	1946857820
SNP_P4_78514_7817272	NC_021165.1	Ca_kabuli_chr06	7817272	AA	GG	1946857822
SNP_P4_78515_7818106	NC_021165.1	Ca_kabuli_chr06	7818106	GG	AA	1946857825
SNP_P4_78516_7818133	NC_021165.1	Ca_kabuli_chr06	7818133	GG	TT	1946857827
SNP_P4_78517_7818134	NC_021165.1	Ca_kabuli_chr06	7818134	GG	AA	1946857829
SNP_P4_78518_7818424	NC_021165.1	Ca_kabuli_chr06	7818424	CC	TT	1946857831
SNP_P4_78519_7819233	NC_021165.1	Ca_kabuli_chr06	7819233	AA	GG	1946857833
SNP_P4_78520_7819348	NC_021165.1	Ca_kabuli_chr06	7819348	CC	TT	1946857835
SNP_P4_78522_7819913	NC_021165.1	Ca_kabuli_chr06	7819913	TT	AA	1946857837
SNP_P4_78523_7825781	NC_021165.1	Ca_kabuli_chr06	7825781	AA	TT	1946857839
SNP_P4_78524_7825859	NC_021165.1	Ca_kabuli_chr06	7825859	AA	GG	1946857841
SNP_P4_78525_7826030	NC_021165.1	Ca_kabuli_chr06	7826030	GG	AA	1946857843
SNP_P4_78526_7826608	NC_021165.1	Ca_kabuli_chr06	7826608	CC	TT	1946857845
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SNP_P4_78529_7826948	NC_021165.1	Ca_kabuli_chr06	7826948	AA	GG	1946857849
SNP_P4_78530_7827009	NC_021165.1	Ca_kabuli_chr06	7827009	CC	TT	1946857851
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SNP_P4_78535_7832129	NC_021165.1	Ca_kabuli_chr06	7832129	AA	GG	1946857859
SNP_P4_78536_7832679	NC_021165.1	Ca_kabuli_chr06	7832679	AA	GG	1946857861
SNP_P4_78537_7833429	NC_021165.1	Ca_kabuli_chr06	7833429	CC	TT	1946857863
SNP_P4_78538_7834922	NC_021165.1	Ca_kabuli_chr06	7834922	GG	AA	1946857865
SNP_P4_78539_7834976	NC_021165.1	Ca_kabuli_chr06	7834976	GG	AA	1946857867
SNP_P4_78540_7835984	NC_021165.1	Ca_kabuli_chr06	7835984	TT	AA	1946857869
SNP_P4_78542_7841024	NC_021165.1	Ca_kabuli_chr06	7841024	CC	TT	1946857871
SNP_P4_78543_7841071	NC_021165.1	Ca_kabuli_chr06	7841071	TT	CC	1946857873
SNP_P4_78544_7841084	NC_021165.1	Ca_kabuli_chr06	7841084	CC	TT	1946857875
SNP_P4_78545_7841316	NC_021165.1	Ca_kabuli_chr06	7841316	TT	AA	1946857877
SNP_P4_78546_7841345	NC_021165.1	Ca_kabuli_chr06	7841345	CC	TT	1946857879
SNP_P4_78547_7841347	NC_021165.1	Ca_kabuli_chr06	7841347	TT	GG	1946857881
SNP_P4_78548_7841586	NC_021165.1	Ca_kabuli_chr06	7841586	AA	TT	1946857883
SNP_P4_78549_7843051	NC_021165.1	Ca_kabuli_chr06	7843051	AA	TT	1946857885
SNP_P4_78550_7843084	NC_021165.1	Ca_kabuli_chr06	7843084	TT	CC	1946857887

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_78552_7846701	NC_021165.1	Ca_kabuli_chr06	7846701	TT	AA	1946857891
SNP_P4_78553_7847424	NC_021165.1	Ca_kabuli_chr06	7847424	AA	GG	1946857893
SNP_P4_78554_7847667	NC_021165.1	Ca_kabuli_chr06	7847667	CC	GG	1946857895
SNP_P4_78555_7847724	NC_021165.1	Ca_kabuli_chr06	7847724	GG	AA	1946857897
SNP_P4_78557_7849253	NC_021165.1	Ca_kabuli_chr06	7849253	TT	CC	1946857899
SNP_P4_78558_7849718	NC_021165.1	Ca_kabuli_chr06	7849718	CC	TT	1946857901
SNP_P4_78559_7854374	NC_021165.1	Ca_kabuli_chr06	7854374	CC	TT	1946857903
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SNP_P4_78561_7855628	NC_021165.1	Ca_kabuli_chr06	7855628	TT	CC	1946857907
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SNP_P4_78564_7857649	NC_021165.1	Ca_kabuli_chr06	7857649	GG	AA	1946857913
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SNP_P4_78567_7858703	NC_021165.1	Ca_kabuli_chr06	7858703	GG	TT	1946857919
SNP_P4_78568_7858712	NC_021165.1	Ca_kabuli_chr06	7858712	GG	AA	1946857921
SNP_P4_78569_7859630	NC_021165.1	Ca_kabuli_chr06	7859630	GG	TT	1946857923
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SNP_P4_78585_7863030	NC_021165.1	Ca_kabuli_chr06	7863030	TT	AA	1946857950
SNP_P4_78586_7863031	NC_021165.1	Ca_kabuli_chr06	7863031	TT	AA	1946857952
SNP_P4_78587_7863307	NC_021165.1	Ca_kabuli_chr06	7863307	AA	GG	1946857954
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SNP_P4_78590_7867433	NC_021165.1	Ca_kabuli_chr06	7867433	CC	TT	1946857960
SNP_P4_78591_7867814	NC_021165.1	Ca_kabuli_chr06	7867814	CC	AA	1946857962
SNP_P4_78592_7867879	NC_021165.1	Ca_kabuli_chr06	7867879	GG	AA	1946857964
SNP_P4_78593_7867990	NC_021165.1	Ca_kabuli_chr06	7867990	AA	GG	1946857966
SNP_P4_78594_7868347	NC_021165.1	Ca_kabuli_chr06	7868347	GG	AA	1946857969
SNP_P4_78595_7869375	NC_021165.1	Ca_kabuli_chr06	7869375	CC	AA	1946857971
SNP_P4_78596_7869654	NC_021165.1	Ca_kabuli_chr06	7869654	AA	GG	1946857973

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_78601_7870300	NC_021165.1	Ca_kabuli_chr06	7870300	GG	AA	1946857979
SNP_P4_78602_7872093	NC_021165.1	Ca_kabuli_chr06	7872093	AA	GG	1946857981
SNP_P4_78603_7872110	NC_021165.1	Ca_kabuli_chr06	7872110	GG	CC	1946857983
SNP_P4_78604_7872149	NC_021165.1	Ca_kabuli_chr06	7872149	GG	CC	1946857985
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SNP_P4_78606_7872172	NC_021165.1	Ca_kabuli_chr06	7872172	AA	CC	1946857989
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SNP_P4_78608_7872452	NC_021165.1	Ca_kabuli_chr06	7872452	CC	TT	1946857993
SNP_P4_78609_7872466	NC_021165.1	Ca_kabuli_chr06	7872466	TT	AA	1946857995
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SNP_P4_78615_7877596	NC_021165.1	Ca_kabuli_chr06	7877596	CC	AA	1946858005
SNP_P4_78616_7877599	NC_021165.1	Ca_kabuli_chr06	7877599	AA	TT	1946858007
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SNP_P4_78622_7881411	NC_021165.1	Ca_kabuli_chr06	7881411	AA	GG	1946858013
SNP_P4_78624_7883169	NC_021165.1	Ca_kabuli_chr06	7883169	CC	TT	1946858015
SNP_P4_78625_7883193	NC_021165.1	Ca_kabuli_chr06	7883193	TT	CC	1946858017
SNP_P4_78626_7883218	NC_021165.1	Ca_kabuli_chr06	7883218	GG	AA	1946858019
SNP_P4_78628_7883356	NC_021165.1	Ca_kabuli_chr06	7883356	GG	AA	1946858021
SNP_P4_78629_7883362	NC_021165.1	Ca_kabuli_chr06	7883362	GG	AA	1946858023
SNP_P4_78630_7883387	NC_021165.1	Ca_kabuli_chr06	7883387	CC	TT	1946858025
SNP_P4_78632_7883962	NC_021165.1	Ca_kabuli_chr06	7883962	GG	AA	1946858027
SNP_P4_78633_7884014	NC_021165.1	Ca_kabuli_chr06	7884014	GG	TT	1946858029
SNP_P4_78634_7884161	NC_021165.1	Ca_kabuli_chr06	7884161	CC	GG	1946858031
SNP_P4_78635_7884456	NC_021165.1	Ca_kabuli_chr06	7884456	TT	CC	1946858033
SNP_P4_78637_7884584	NC_021165.1	Ca_kabuli_chr06	7884584	AA	TT	1946858036
SNP_P4_78638_7884790	NC_021165.1	Ca_kabuli_chr06	7884790	AA	TT	1946858038
SNP_P4_78639_7886972	NC_021165.1	Ca_kabuli_chr06	7886972	TT	CC	1946858040
SNP_P4_78640_7892652	NC_021165.1	Ca_kabuli_chr06	7892652	GG	CC	1946858042
SNP_P4_78642_7893005	NC_021165.1	Ca_kabuli_chr06	7893005	GG	CC	1946858044
SNP_P4_78644_7893523	NC_021165.1	Ca_kabuli_chr06	7893523	AA	TT	1946858046
SNP_P4_78645_7893524	NC_021165.1	Ca_kabuli_chr06	7893524	CC	AA	1946858048
SNP_P4_78646_7893868	NC_021165.1	Ca_kabuli_chr06	7893868	TT	CC	1946858050
SNP_P4_78647_7893885	NC_021165.1	Ca_kabuli_chr06	7893885	GG	CC	1946858052
SNP_P4_78648_7894003	NC_021165.1	Ca_kabuli_chr06	7894003	CC	AA	1946858054
SNP_P4_78649_7894483	NC_021165.1	Ca_kabuli_chr06	7894483	GG	AA	1946858056
SNP_P4_78650_7894532	NC_021165.1	Ca_kabuli_chr06	7894532	AA	GG	1946858058

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_78651_7894559	NC_021165.1	Ca_kabuli_chr06	7894559	AA	GG	1946858060
SNP_P4_78653_7895575	NC_021165.1	Ca_kabuli_chr06	7895575	AA	TT	1946858062
SNP_P4_78654_7896499	NC_021165.1	Ca_kabuli_chr06	7896499	AA	GG	1946858065
SNP_P4_78655_7896586	NC_021165.1	Ca_kabuli_chr06	7896586	CC	TT	1946858067
SNP_P4_78656_7896772	NC_021165.1	Ca_kabuli_chr06	7896772	TT	CC	1946858069
SNP_P4_78657_7896788	NC_021165.1	Ca_kabuli_chr06	7896788	GG	TT	1946858071
SNP_P4_78658_7896797	NC_021165.1	Ca_kabuli_chr06	7896797	AA	GG	1946858073
SNP_P4_78659_7896816	NC_021165.1	Ca_kabuli_chr06	7896816	TT	AA	1946858076
SNP_P4_78660_7896827	NC_021165.1	Ca_kabuli_chr06	7896827	CC	TT	1946858078
SNP_P4_78661_7896837	NC_021165.1	Ca_kabuli_chr06	7896837	CC	TT	1946858080
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SNP_P4_78663_7897046	NC_021165.1	Ca_kabuli_chr06	7897046	GG	AA	1946858084
SNP_P4_78664_7897057	NC_021165.1	Ca_kabuli_chr06	7897057	TT	AA	1946858086
SNP_P4_78665_7897178	NC_021165.1	Ca_kabuli_chr06	7897178	CC	TT	1946858088
SNP_P4_78666_7897354	NC_021165.1	Ca_kabuli_chr06	7897354	AA	GG	1946858090
SNP_P4_78668_7898942	NC_021165.1	Ca_kabuli_chr06	7898942	AA	GG	1946858092
SNP_P4_78669_7898966	NC_021165.1	Ca_kabuli_chr06	7898966	AA	TT	1946858094
SNP_P4_78670_7899005	NC_021165.1	Ca_kabuli_chr06	7899005	AA	CC	1946858096
SNP_P4_78671_7899182	NC_021165.1	Ca_kabuli_chr06	7899182	TT	AA	1946858098
SNP_P4_78672_7899189	NC_021165.1	Ca_kabuli_chr06	7899189	AA	TT	1946858100
SNP_P4_78674_7899248	NC_021165.1	Ca_kabuli_chr06	7899248	GG	AA	1946858102
SNP_P4_78677_7901636	NC_021165.1	Ca_kabuli_chr06	7901636	CC	TT	1946858104
SNP_P4_78678_7902999	NC_021165.1	Ca_kabuli_chr06	7902999	GG	AA	1946858106
SNP_P4_78680_7904060	NC_021165.1	Ca_kabuli_chr06	7904060	CC	TT	1946858108
SNP_P4_78681_7904064	NC_021165.1	Ca_kabuli_chr06	7904064	CC	TT	1946858110
SNP_P4_78682_7904406	NC_021165.1	Ca_kabuli_chr06	7904406	TT	GG	1946858112
SNP_P4_78684_7906658	NC_021165.1	Ca_kabuli_chr06	7906658	GG	TT	1946858114
SNP_P4_78685_7906973	NC_021165.1	Ca_kabuli_chr06	7906973	GG	CC	1946858116
SNP_P4_78686_7907013	NC_021165.1	Ca_kabuli_chr06	7907013	GG	AA	1946858118
SNP_P4_78687_7907331	NC_021165.1	Ca_kabuli_chr06	7907331	AA	TT	1946858120
SNP_P4_78688_7907332	NC_021165.1	Ca_kabuli_chr06	7907332	AA	GG	1946858122
SNP_P4_78689_7907360	NC_021165.1	Ca_kabuli_chr06	7907360	AA	TT	1946858124
SNP_P4_78690_7907389	NC_021165.1	Ca_kabuli_chr06	7907389	GG	AA	1946858126
SNP_P4_78691_7907414	NC_021165.1	Ca_kabuli_chr06	7907414	GG	AA	1946858128
SNP_P4_78692_7907568	NC_021165.1	Ca_kabuli_chr06	7907568	GG	AA	1946858130
SNP_P4_78693_7907851	NC_021165.1	Ca_kabuli_chr06	7907851	GG	TT	1946858132
SNP_P4_78694_7908380	NC_021165.1	Ca_kabuli_chr06	7908380	TT	CC	1946858134
SNP_P4_78695_7908846	NC_021165.1	Ca_kabuli_chr06	7908846	AA	GG	1946858136
SNP_P4_78696_7909836	NC_021165.1	Ca_kabuli_chr06	7909836	AA	CC	1946858138
SNP_P4_78697_7909900	NC_021165.1	Ca_kabuli_chr06	7909900	TT	CC	1946858140
SNP_P4_78698_7911430	NC_021165.1	Ca_kabuli_chr06	7911430	TT	GG	1946858142
SNP_P4_78700_7911496	NC_021165.1	Ca_kabuli_chr06	7911496	CC	AA	1946858144

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_78703_7912988	NC_021165.1	Ca_kabuli_chr06	7912988	CC	TT	1946858149
SNP_P4_78704_7913021	NC_021165.1	Ca_kabuli_chr06	7913021	AA	GG	1946858151
SNP_P4_78705_7915351	NC_021165.1	Ca_kabuli_chr06	7915351	TT	AA	1946858153
SNP_P4_78706_7916107	NC_021165.1	Ca_kabuli_chr06	7916107	AA	GG	1946858155
SNP_P4_78707_7916662	NC_021165.1	Ca_kabuli_chr06	7916662	CC	AA	1946858157
SNP_P4_78708_7916712	NC_021165.1	Ca_kabuli_chr06	7916712	CC	AA	1946858159
SNP_P4_78709_7916715	NC_021165.1	Ca_kabuli_chr06	7916715	AA	GG	1946858161
SNP_P4_78710_7916741	NC_021165.1	Ca_kabuli_chr06	7916741	CC	TT	1946858163
SNP_P4_78711_7918992	NC_021165.1	Ca_kabuli_chr06	7918992	TT	GG	1946858165
SNP_P4_78712_7919453	NC_021165.1	Ca_kabuli_chr06	7919453	AA	GG	1946858167
SNP_P4_78713_7919606	NC_021165.1	Ca_kabuli_chr06	7919606	TT	AA	1946858169
SNP_P4_78714_7919628	NC_021165.1	Ca_kabuli_chr06	7919628	GG	AA	1946858171
SNP_P4_78715_7919770	NC_021165.1	Ca_kabuli_chr06	7919770	AA	GG	1946858173
SNP_P4_78716_7919774	NC_021165.1	Ca_kabuli_chr06	7919774	GG	AA	1946858175
SNP_P4_78717_7920226	NC_021165.1	Ca_kabuli_chr06	7920226	TT	CC	1946858177
SNP_P4_78718_7920227	NC_021165.1	Ca_kabuli_chr06	7920227	GG	CC	1946858179
SNP_P4_78719_7920230	NC_021165.1	Ca_kabuli_chr06	7920230	TT	CC	1946858181
SNP_P4_78720_7920251	NC_021165.1	Ca_kabuli_chr06	7920251	AA	GG	1946858183
SNP_P4_78721_7920316	NC_021165.1	Ca_kabuli_chr06	7920316	GG	CC	1946858185
SNP_P4_78722_7920375	NC_021165.1	Ca_kabuli_chr06	7920375	GG	AA	1946858187
SNP_P4_78723_7920944	NC_021165.1	Ca_kabuli_chr06	7920944	AA	GG	1946858189
SNP_P4_78725_7921523	NC_021165.1	Ca_kabuli_chr06	7921523	CC	TT	1946858191
SNP_P4_78726_7921530	NC_021165.1	Ca_kabuli_chr06	7921530	TT	CC	1946858193
SNP_P4_78727_7921585	NC_021165.1	Ca_kabuli_chr06	7921585	TT	AA	1946858195
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SNP_P4_78730_7922036	NC_021165.1	Ca_kabuli_chr06	7922036	AA	GG	1946858201
SNP_P4_78731_7922118	NC_021165.1	Ca_kabuli_chr06	7922118	TT	GG	1946858203
SNP_P4_78732_7922146	NC_021165.1	Ca_kabuli_chr06	7922146	AA	TT	1946858205
SNP_P4_78733_7922219	NC_021165.1	Ca_kabuli_chr06	7922219	CC	AA	1946858207
SNP_P4_78735_7922285	NC_021165.1	Ca_kabuli_chr06	7922285	CC	TT	1946858209
SNP_P4_78736_7922304	NC_021165.1	Ca_kabuli_chr06	7922304	AA	CC	1946858211
SNP_P4_78737_7922320	NC_021165.1	Ca_kabuli_chr06	7922320	AA	CC	1946858213
SNP_P4_78738_7922514	NC_021165.1	Ca_kabuli_chr06	7922514	CC	TT	1946858215
SNP_P4_78739_7922568	NC_021165.1	Ca_kabuli_chr06	7922568	CC	TT	1946858217
SNP_P4_78740_7922572	NC_021165.1	Ca_kabuli_chr06	7922572	TT	AA	1946858219
SNP_P4_78741_7922593	NC_021165.1	Ca_kabuli_chr06	7922593	GG	CC	1946858222
SNP_P4_78742_7922806	NC_021165.1	Ca_kabuli_chr06	7922806	AA	GG	1946858224
SNP_P4_78743_7922817	NC_021165.1	Ca_kabuli_chr06	7922817	AA	TT	1946858225
SNP_P4_78744_7922988	NC_021165.1	Ca_kabuli_chr06	7922988	CC	TT	1946858228
SNP_P4_78745_7923096	NC_021165.1	Ca_kabuli_chr06	7923096	GG	CC	1946858230

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_78747_7924415	NC_021165.1	Ca_kabuli_chr06	7924415	CC	AA	1946858234
SNP_P4_78748_7926251	NC_021165.1	Ca_kabuli_chr06	7926251	TT	CC	1946858236
SNP_P4_78749_7926814	NC_021165.1	Ca_kabuli_chr06	7926814	AA	GG	1946858238
SNP_P4_78750_7927043	NC_021165.1	Ca_kabuli_chr06	7927043	GG	AA	1946858240
SNP_P4_78751_7927061	NC_021165.1	Ca_kabuli_chr06	7927061	TT	AA	1946858241
SNP_P4_78752_7927080	NC_021165.1	Ca_kabuli_chr06	7927080	AA	TT	1946858243
SNP_P4_78753_7928067	NC_021165.1	Ca_kabuli_chr06	7928067	TT	CC	1946858245
SNP_P4_78754_7929263	NC_021165.1	Ca_kabuli_chr06	7929263	CC	TT	1946858247
SNP_P4_78755_7929338	NC_021165.1	Ca_kabuli_chr06	7929338	TT	CC	1946858249
SNP_P4_78756_7929339	NC_021165.1	Ca_kabuli_chr06	7929339	GG	AA	1946858251
SNP_P4_78757_7932202	NC_021165.1	Ca_kabuli_chr06	7932202	AA	GG	1946858253
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SNP_P4_78762_7934155	NC_021165.1	Ca_kabuli_chr06	7934155	AA	CC	1946858263
SNP_P4_78763_7934320	NC_021165.1	Ca_kabuli_chr06	7934320	AA	GG	1946858265
SNP_P4_78764_7934458	NC_021165.1	Ca_kabuli_chr06	7934458	CC	TT	1946858267
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SNP_P4_78767_7934594	NC_021165.1	Ca_kabuli_chr06	7934594	CC	TT	1946858273
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SNP_P4_78769_7934696	NC_021165.1	Ca_kabuli_chr06	7934696	GG	AA	1946858277
SNP_P4_78770_7934736	NC_021165.1	Ca_kabuli_chr06	7934736	CC	TT	1946858279
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SNP_P4_78775_7935487	NC_021165.1	Ca_kabuli_chr06	7935487	TT	CC	1946858287
SNP_P4_78776_7935534	NC_021165.1	Ca_kabuli_chr06	7935534	GG	AA	1946858289
SNP_P4_78777_7935799	NC_021165.1	Ca_kabuli_chr06	7935799	GG	AA	1946858291
SNP_P4_78779_7936157	NC_021165.1	Ca_kabuli_chr06	7936157	TT	CC	1946858293
SNP_P4_78780_7936493	NC_021165.1	Ca_kabuli_chr06	7936493	AA	GG	1946858295
SNP_P4_78781_7936838	NC_021165.1	Ca_kabuli_chr06	7936838	GG	AA	1946858297
SNP_P4_78782_7939646	NC_021165.1	Ca_kabuli_chr06	7939646	TT	AA	1946858299
SNP_P4_78783_7939666	NC_021165.1	Ca_kabuli_chr06	7939666	TT	AA	1946858301
SNP_P4_78784_7940632	NC_021165.1	Ca_kabuli_chr06	7940632	TT	GG	1946858303
SNP_P4_78786_7941967	NC_021165.1	Ca_kabuli_chr06	7941967	GG	AA	1946858305
SNP_P4_78787_7942026	NC_021165.1	Ca_kabuli_chr06	7942026	AA	TT	1946858307
SNP_P4_78788_7942551	NC_021165.1	Ca_kabuli_chr06	7942551	CC	AA	1946858309
SNP_P4_78790_7942871	NC_021165.1	Ca_kabuli_chr06	7942871	GG	TT	1946858311
SNP_P4_78791_7942874	NC_021165.1	Ca_kabuli_chr06	7942874	AA	TT	1946858313

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_78793_7943846	NC_021165.1	Ca_kabuli_chr06	7943846	AA	GG	1946858317
SNP_P4_78794_7945538	NC_021165.1	Ca_kabuli_chr06	7945538	GG	TT	1946858319
SNP_P4_78795_7946971	NC_021165.1	Ca_kabuli_chr06	7946971	TT	AA	1946858321
SNP_P4_78796_7946998	NC_021165.1	Ca_kabuli_chr06	7946998	TT	AA	1946858323
SNP_P4_78798_7947266	NC_021165.1	Ca_kabuli_chr06	7947266	CC	TT	1946858325
SNP_P4_78799_7947881	NC_021165.1	Ca_kabuli_chr06	7947881	GG	TT	1946858327
SNP_P4_78800_7947888	NC_021165.1	Ca_kabuli_chr06	7947888	AA	TT	1946858329
SNP_P4_78802_7948216	NC_021165.1	Ca_kabuli_chr06	7948216	TT	CC	1946858331
SNP_P4_78803_7948500	NC_021165.1	Ca_kabuli_chr06	7948500	CC	AA	1946858333
SNP_P4_78804_7948523	NC_021165.1	Ca_kabuli_chr06	7948523	AA	GG	1946858335
SNP_P4_78805_7948539	NC_021165.1	Ca_kabuli_chr06	7948539	TT	CC	1946858337
SNP_P4_78807_7948639	NC_021165.1	Ca_kabuli_chr06	7948639	AA	TT	1946858339
SNP_P4_78809_7949158	NC_021165.1	Ca_kabuli_chr06	7949158	AA	TT	1946858341
SNP_P4_78810_7951491	NC_021165.1	Ca_kabuli_chr06	7951491	AA	TT	1946858343
SNP_P4_78811_7951492	NC_021165.1	Ca_kabuli_chr06	7951492	AA	TT	1946858345
SNP_P4_78812_7951493	NC_021165.1	Ca_kabuli_chr06	7951493	AA	TT	1946858347
SNP_P4_78813_7951494	NC_021165.1	Ca_kabuli_chr06	7951494	AA	TT	1946858349
SNP_P4_78814_7951495	NC_021165.1	Ca_kabuli_chr06	7951495	AA	TT	1946858351
SNP_P4_78815_7951508	NC_021165.1	Ca_kabuli_chr06	7951508	GG	AA	1946858353
SNP_P4_78816_7951717	NC_021165.1	Ca_kabuli_chr06	7951717	TT	CC	1946858355
SNP_P4_78817_7951739	NC_021165.1	Ca_kabuli_chr06	7951739	TT	CC	1946858357
SNP_P4_78818_7951912	NC_021165.1	Ca_kabuli_chr06	7951912	GG	TT	1946858359
SNP_P4_78819_7951935	NC_021165.1	Ca_kabuli_chr06	7951935	GG	AA	1946858361
SNP_P4_78820_7951947	NC_021165.1	Ca_kabuli_chr06	7951947	CC	AA	1946858363
SNP_P4_78821_7952895	NC_021165.1	Ca_kabuli_chr06	7952895	AA	TT	1946858365
SNP_P4_78822_7952952	NC_021165.1	Ca_kabuli_chr06	7952952	CC	AA	1946858367
SNP_P4_78823_7953177	NC_021165.1	Ca_kabuli_chr06	7953177	TT	CC	1946858369
SNP_P4_78824_7953209	NC_021165.1	Ca_kabuli_chr06	7953209	TT	AA	1946858371
SNP_P4_78826_7953508	NC_021165.1	Ca_kabuli_chr06	7953508	GG	AA	1946858373
SNP_P4_78827_7953893	NC_021165.1	Ca_kabuli_chr06	7953893	CC	TT	1946858375
SNP_P4_78828_7953947	NC_021165.1	Ca_kabuli_chr06	7953947	CC	GG	1946858377
SNP_P4_78830_7954480	NC_021165.1	Ca_kabuli_chr06	7954480	CC	GG	1946858379
SNP_P4_78832_7955115	NC_021165.1	Ca_kabuli_chr06	7955115	TT	AA	1946858381
SNP_P4_78833_7955323	NC_021165.1	Ca_kabuli_chr06	7955323	GG	TT	1946858383
SNP_P4_78834_7955540	NC_021165.1	Ca_kabuli_chr06	7955540	AA	TT	1946858385
SNP_P4_78835_7955562	NC_021165.1	Ca_kabuli_chr06	7955562	AA	GG	1946858387
SNP_P4_78836_7955587	NC_021165.1	Ca_kabuli_chr06	7955587	CC	TT	1946858389
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SNP_P4_78838_7955634	NC_021165.1	Ca_kabuli_chr06	7955634	CC	TT	1946858393
SNP_P4_78839_7955794	NC_021165.1	Ca_kabuli_chr06	7955794	AA	TT	1946858395
SNP_P4_78840_7955809	NC_021165.1	Ca_kabuli_chr06	7955809	AA	TT	1946858397

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_78842_7957428	NC_021165.1	Ca_kabuli_chr06	7957428	GG	TT	1946858401
SNP_P4_78843_7957443	NC_021165.1	Ca_kabuli_chr06	7957443	GG	AA	1946858403
SNP_P4_78844_7957446	NC_021165.1	Ca_kabuli_chr06	7957446	CC	AA	1946858405
SNP_P4_78845_7957464	NC_021165.1	Ca_kabuli_chr06	7957464	CC	TT	1946858407
SNP_P4_78846_7957562	NC_021165.1	Ca_kabuli_chr06	7957562	TT	CC	1946858409
SNP_P4_78847_7958013	NC_021165.1	Ca_kabuli_chr06	7958013	AA	TT	1946858411
SNP_P4_78848_7958141	NC_021165.1	Ca_kabuli_chr06	7958141	TT	CC	1946858413
SNP_P4_78850_7958380	NC_021165.1	Ca_kabuli_chr06	7958380	AA	GG	1946858415
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SNP_P4_78852_7958402	NC_021165.1	Ca_kabuli_chr06	7958402	GG	AA	1946858419
SNP_P4_78853_7958432	NC_021165.1	Ca_kabuli_chr06	7958432	AA	GG	1946858421
SNP_P4_78854_7958723	NC_021165.1	Ca_kabuli_chr06	7958723	TT	CC	1946858423
SNP_P4_78856_7958795	NC_021165.1	Ca_kabuli_chr06	7958795	CC	TT	1946858425
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SNP_P4_78858_7958842	NC_021165.1	Ca_kabuli_chr06	7958842	TT	CC	1946858429
SNP_P4_78859_7959016	NC_021165.1	Ca_kabuli_chr06	7959016	TT	CC	1946858431
SNP_P4_78860_7959018	NC_021165.1	Ca_kabuli_chr06	7959018	CC	GG	1946858433
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SNP_P4_78871_7959497	NC_021165.1	Ca_kabuli_chr06	7959497	TT	AA	1946858456
SNP_P4_78872_7959504	NC_021165.1	Ca_kabuli_chr06	7959504	GG	TT	1946858458
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SNP_P4_78874_7959690	NC_021165.1	Ca_kabuli_chr06	7959690	GG	CC	1946858462
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SNP_P4_78878_7960117	NC_021165.1	Ca_kabuli_chr06	7960117	GG	CC	1946858470
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SNP_P4_78880_7960166	NC_021165.1	Ca_kabuli_chr06	7960166	TT	CC	1946858474
SNP_P4_78881_7960168	NC_021165.1	Ca_kabuli_chr06	7960168	CC	TT	1946858476
SNP_P4_78882_7960180	NC_021165.1	Ca_kabuli_chr06	7960180	AA	GG	1946858478
SNP_P4_78883_7960204	NC_021165.1	Ca_kabuli_chr06	7960204	GG	AA	1946858480
SNP_P4_78884_7960262	NC_021165.1	Ca_kabuli_chr06	7960262	CC	TT	1946858482

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_78888_7960496	NC_021165.1	Ca_kabuli_chr06	7960496	CC	AA	1946858491
SNP_P4_78889_7960507	NC_021165.1	Ca_kabuli_chr06	7960507	TT	CC	1946858493
SNP_P4_78890_7960511	NC_021165.1	Ca_kabuli_chr06	7960511	TT	CC	1946858495
SNP_P4_78891_7960669	NC_021165.1	Ca_kabuli_chr06	7960669	TT	AA	1946858497
SNP_P4_78892_7960696	NC_021165.1	Ca_kabuli_chr06	7960696	GG	AA	1946858499
SNP_P4_78893_7960856	NC_021165.1	Ca_kabuli_chr06	7960856	GG	AA	1946858501
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SNP_P4_78897_7961797	NC_021165.1	Ca_kabuli_chr06	7961797	CC	AA	1946858505
SNP_P4_78898_7961856	NC_021165.1	Ca_kabuli_chr06	7961856	AA	CC	1946858506
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SNP_P4_78918_7966371	NC_021165.1	Ca_kabuli_chr06	7966371	GG	CC	1946858542
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SNP_P4_78924_7966629	NC_021165.1	Ca_kabuli_chr06	7966629	TT	CC	1946858552
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SNP_P4_78926_7966761	NC_021165.1	Ca_kabuli_chr06	7966761	TT	AA	1946858556
SNP_P4_78929_7968354	NC_021165.1	Ca_kabuli_chr06	7968354	CC	GG	1946858558
SNP_P4_78930_7969317	NC_021165.1	Ca_kabuli_chr06	7969317	AA	TT	1946858560
SNP_P4_78931_7969616	NC_021165.1	Ca_kabuli_chr06	7969616	TT	AA	1946858562
SNP_P4_78932_7969633	NC_021165.1	Ca_kabuli_chr06	7969633	TT	AA	1946858564
SNP_P4_78934_7970092	NC_021165.1	Ca_kabuli_chr06	7970092	CC	AA	1946858566

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_78938_7970557	NC_021165.1	Ca_kabuli_chr06	7970557	TT	CC	1946858572
SNP_P4_78941_7970836	NC_021165.1	Ca_kabuli_chr06	7970836	TT	CC	1946858574
SNP_P4_78942_7971428	NC_021165.1	Ca_kabuli_chr06	7971428	CC	TT	1946858576
SNP_P4_78943_7971751	NC_021165.1	Ca_kabuli_chr06	7971751	TT	CC	1946858578
SNP_P4_78944_7971810	NC_021165.1	Ca_kabuli_chr06	7971810	CC	AA	1946858580
SNP_P4_78946_7972641	NC_021165.1	Ca_kabuli_chr06	7972641	GG	AA	1946858582
SNP_P4_78947_7972683	NC_021165.1	Ca_kabuli_chr06	7972683	AA	CC	1946858584
SNP_P4_78949_7972738	NC_021165.1	Ca_kabuli_chr06	7972738	AA	GG	1946858586
SNP_P4_78950_7972748	NC_021165.1	Ca_kabuli_chr06	7972748	TT	CC	1946858588
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SNP_P4_78965_7976809	NC_021165.1	Ca_kabuli_chr06	7976809	TT	AA	1946858614
SNP_P4_78967_7976995	NC_021165.1	Ca_kabuli_chr06	7976995	AA	GG	1946858616
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SNP_P4_78971_7977819	NC_021165.1	Ca_kabuli_chr06	7977819	TT	GG	1946858624
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SNP_P4_78973_7980758	NC_021165.1	Ca_kabuli_chr06	7980758	CC	TT	1946858628
SNP_P4_78974_7980775	NC_021165.1	Ca_kabuli_chr06	7980775	AA	GG	1946858630
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SNP_P4_78980_7985555	NC_021165.1	Ca_kabuli_chr06	7985555	CC	TT	1946858636
SNP_P4_78981_7985629	NC_021165.1	Ca_kabuli_chr06	7985629	AA	TT	1946858638
SNP_P4_78982_7985971	NC_021165.1	Ca_kabuli_chr06	7985971	TT	AA	1946858640
SNP_P4_78983_7986263	NC_021165.1	Ca_kabuli_chr06	7986263	GG	CC	1946858642
SNP_P4_78984_7987263	NC_021165.1	Ca_kabuli_chr06	7987263	CC	TT	1946858644
SNP_P4_78985_7987271	NC_021165.1	Ca_kabuli_chr06	7987271	TT	AA	1946858646
SNP_P4_78986_7987319	NC_021165.1	Ca_kabuli_chr06	7987319	CC	GG	1946858648
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_78992_7988236	NC_021165.1	Ca_kabuli_chr06	7988236	AA	TT	1946858660
SNP_P4_78993_7988276	NC_021165.1	Ca_kabuli_chr06	7988276	AA	GG	1946858662
SNP_P4_78994_7989166	NC_021165.1	Ca_kabuli_chr06	7989166	CC	TT	1946858664
SNP_P4_78997_7990403	NC_021165.1	Ca_kabuli_chr06	7990403	TT	GG	1946858666
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SNP_P4_79036_8004508	NC_021165.1	Ca_kabuli_chr06	8004508	AA	TT	1946858730
SNP_P4_79037_8004690	NC_021165.1	Ca_kabuli_chr06	8004690	CC	GG	1946858732
SNP_P4_79038_8004939	NC_021165.1	Ca_kabuli_chr06	8004939	CC	GG	1946858734

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_79042_8005185	NC_021165.1	Ca_kabuli_chr06	8005185	TT	AA	1946858742
SNP_P4_79043_8005448	NC_021165.1	Ca_kabuli_chr06	8005448	CC	TT	1946858744
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SNP_P4_79059_8008878	NC_021165.1	Ca_kabuli_chr06	8008878	GG	AA	1946858770
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SNP_P4_79061_8019952	NC_021165.1	Ca_kabuli_chr06	8019952	AA	TT	1946858774
SNP_P4_79062_8019953	NC_021165.1	Ca_kabuli_chr06	8019953	TT	AA	1946858776
SNP_P4_79063_8020347	NC_021165.1	Ca_kabuli_chr06	8020347	AA	CC	1946858778
SNP_P4_79064_8020352	NC_021165.1	Ca_kabuli_chr06	8020352	AA	CC	1946858780
SNP_P4_79065_8021870	NC_021165.1	Ca_kabuli_chr06	8021870	CC	TT	1946858782
SNP_P4_79066_8022090	NC_021165.1	Ca_kabuli_chr06	8022090	AA	TT	1946858784
SNP_P4_79068_8023167	NC_021165.1	Ca_kabuli_chr06	8023167	TT	CC	1946858786
SNP_P4_79069_8023731	NC_021165.1	Ca_kabuli_chr06	8023731	TT	GG	1946858788
SNP_P4_79070_8023976	NC_021165.1	Ca_kabuli_chr06	8023976	CC	TT	1946858790
SNP_P4_79071_8024324	NC_021165.1	Ca_kabuli_chr06	8024324	TT	AA	1946858792
SNP_P4_79072_8024495	NC_021165.1	Ca_kabuli_chr06	8024495	AA	GG	1946858794
SNP_P4_79073_8024513	NC_021165.1	Ca_kabuli_chr06	8024513	GG	AA	1946858796
SNP_P4_79074_8024529	NC_021165.1	Ca_kabuli_chr06	8024529	GG	AA	1946858798
SNP_P4_79075_8024753	NC_021165.1	Ca_kabuli_chr06	8024753	GG	CC	1946858800
SNP_P4_79076_8025189	NC_021165.1	Ca_kabuli_chr06	8025189	TT	CC	1946858802
SNP_P4_79077_8025218	NC_021165.1	Ca_kabuli_chr06	8025218	GG	AA	1946858804
SNP_P4_79078_8025279	NC_021165.1	Ca_kabuli_chr06	8025279	GG	AA	1946858806
SNP_P4_79079_8026342	NC_021165.1	Ca_kabuli_chr06	8026342	TT	CC	1946858808
SNP_P4_79080_8026719	NC_021165.1	Ca_kabuli_chr06	8026719	TT	GG	1946858810
SNP_P4_79081_8027081	NC_021165.1	Ca_kabuli_chr06	8027081	TT	GG	1946858812
SNP_P4_79082_8030143	NC_021165.1	Ca_kabuli_chr06	8030143	TT	GG	1946858814
SNP_P4_79083_8030443	NC_021165.1	Ca_kabuli_chr06	8030443	AA	TT	1946858816
SNP_P4_79084_8031959	NC_021165.1	Ca_kabuli_chr06	8031959	AA	TT	1946858818

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_79086_8031976	NC_021165.1	Ca_kabuli_chr06	8031976	AA	CC	1946858822
SNP_P4_79087_8033152	NC_021165.1	Ca_kabuli_chr06	8033152	TT	CC	1946858824
SNP_P4_79088_8033174	NC_021165.1	Ca_kabuli_chr06	8033174	TT	CC	1946858826
SNP_P4_79089_8033218	NC_021165.1	Ca_kabuli_chr06	8033218	TT	CC	1946858828
SNP_P4_79090_8033325	NC_021165.1	Ca_kabuli_chr06	8033325	GG	AA	1946858830
SNP_P4_79091_8033338	NC_021165.1	Ca_kabuli_chr06	8033338	CC	TT	1946858832
SNP_P4_79092_8033398	NC_021165.1	Ca_kabuli_chr06	8033398	AA	GG	1946858834
SNP_P4_79093_8033400	NC_021165.1	Ca_kabuli_chr06	8033400	AA	GG	1946858836
SNP_P4_79094_8033585	NC_021165.1	Ca_kabuli_chr06	8033585	AA	CC	1946858838
SNP_P4_79095_8033623	NC_021165.1	Ca_kabuli_chr06	8033623	TT	CC	1946858840
SNP_P4_79097_8033936	NC_021165.1	Ca_kabuli_chr06	8033936	TT	AA	1946858842
SNP_P4_79098_8034115	NC_021165.1	Ca_kabuli_chr06	8034115	CC	GG	1946858844
SNP_P4_79099_8034162	NC_021165.1	Ca_kabuli_chr06	8034162	GG	CC	1946858846
SNP_P4_79100_8034439	NC_021165.1	Ca_kabuli_chr06	8034439	TT	CC	1946858848
SNP_P4_79101_8034473	NC_021165.1	Ca_kabuli_chr06	8034473	CC	TT	1946858850
SNP_P4_79102_8035119	NC_021165.1	Ca_kabuli_chr06	8035119	CC	GG	1946858852
SNP_P4_79104_8035269	NC_021165.1	Ca_kabuli_chr06	8035269	TT	AA	1946858854
SNP_P4_79107_8037073	NC_021165.1	Ca_kabuli_chr06	8037073	TT	AA	1946858856
SNP_P4_79108_8038685	NC_021165.1	Ca_kabuli_chr06	8038685	GG	TT	1946858858
SNP_P4_79109_8039372	NC_021165.1	Ca_kabuli_chr06	8039372	AA	CC	1946858860
SNP_P4_79110_8039633	NC_021165.1	Ca_kabuli_chr06	8039633	GG	AA	1946858862
SNP_P4_79111_8039682	NC_021165.1	Ca_kabuli_chr06	8039682	TT	CC	1946858864
SNP_P4_79112_8039885	NC_021165.1	Ca_kabuli_chr06	8039885	CC	TT	1946858866
SNP_P4_79113_8039886	NC_021165.1	Ca_kabuli_chr06	8039886	AA	CC	1946858868
SNP_P4_79114_8040006	NC_021165.1	Ca_kabuli_chr06	8040006	TT	CC	1946858870
SNP_P4_79115_8040020	NC_021165.1	Ca_kabuli_chr06	8040020	AA	GG	1946858872
SNP_P4_79116_8040033	NC_021165.1	Ca_kabuli_chr06	8040033	GG	AA	1946858874
SNP_P4_79117_8040143	NC_021165.1	Ca_kabuli_chr06	8040143	GG	AA	1946858876
SNP_P4_79118_8040178	NC_021165.1	Ca_kabuli_chr06	8040178	AA	TT	1946858878
SNP_P4_79119_8040301	NC_021165.1	Ca_kabuli_chr06	8040301	AA	CC	1946858880
SNP_P4_79120_8040403	NC_021165.1	Ca_kabuli_chr06	8040403	AA	GG	1946858882
SNP_P4_79121_8040405	NC_021165.1	Ca_kabuli_chr06	8040405	AA	GG	1946858884
SNP_P4_79122_8040409	NC_021165.1	Ca_kabuli_chr06	8040409	CC	TT	1946858886
SNP_P4_79123_8040412	NC_021165.1	Ca_kabuli_chr06	8040412	TT	GG	1946858888
SNP_P4_79124_8040474	NC_021165.1	Ca_kabuli_chr06	8040474	CC	TT	1946858890
SNP_P4_79125_8040498	NC_021165.1	Ca_kabuli_chr06	8040498	AA	CC	1946858891
SNP_P4_79126_8040499	NC_021165.1	Ca_kabuli_chr06	8040499	TT	CC	1946858893
SNP_P4_79127_8040722	NC_021165.1	Ca_kabuli_chr06	8040722	GG	AA	1946858895
SNP_P4_79128_8040724	NC_021165.1	Ca_kabuli_chr06	8040724	GG	AA	1946858897
SNP_P4_79129_8040780	NC_021165.1	Ca_kabuli_chr06	8040780	CC	TT	1946858899
SNP_P4_79130_8042102	NC_021165.1	Ca_kabuli_chr06	8042102	GG	AA	1946858902

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_79132_8043230	NC_021165.1	Ca_kabuli_chr06	8043230	TT	CC	1946858906
SNP_P4_79133_8043471	NC_021165.1	Ca_kabuli_chr06	8043471	CC	TT	1946858908
SNP_P4_79134_8043755	NC_021165.1	Ca_kabuli_chr06	8043755	TT	CC	1946858910
SNP_P4_79135_8043789	NC_021165.1	Ca_kabuli_chr06	8043789	TT	GG	1946858912
SNP_P4_79136_8044031	NC_021165.1	Ca_kabuli_chr06	8044031	AA	TT	1946858914
SNP_P4_79137_8044033	NC_021165.1	Ca_kabuli_chr06	8044033	AA	TT	1946858916
SNP_P4_79138_8044087	NC_021165.1	Ca_kabuli_chr06	8044087	GG	AA	1946858918
SNP_P4_79139_8044113	NC_021165.1	Ca_kabuli_chr06	8044113	GG	AA	1946858920
SNP_P4_79140_8044323	NC_021165.1	Ca_kabuli_chr06	8044323	AA	CC	1946858922
SNP_P4_79141_8044348	NC_021165.1	Ca_kabuli_chr06	8044348	CC	TT	1946858924
SNP_P4_79143_8044694	NC_021165.1	Ca_kabuli_chr06	8044694	TT	AA	1946858926
SNP_P4_79144_8045078	NC_021165.1	Ca_kabuli_chr06	8045078	TT	CC	1946858928
SNP_P4_79145_8045823	NC_021165.1	Ca_kabuli_chr06	8045823	AA	GG	1946858930
SNP_P4_79146_8046313	NC_021165.1	Ca_kabuli_chr06	8046313	CC	TT	1946858932
SNP_P4_79147_8048054	NC_021165.1	Ca_kabuli_chr06	8048054	CC	TT	1946858934
SNP_P4_79148_8048353	NC_021165.1	Ca_kabuli_chr06	8048353	CC	TT	1946858936
SNP_P4_79149_8048779	NC_021165.1	Ca_kabuli_chr06	8048779	GG	AA	1946858938
SNP_P4_79150_8048806	NC_021165.1	Ca_kabuli_chr06	8048806	TT	CC	1946858941
SNP_P4_79151_8048831	NC_021165.1	Ca_kabuli_chr06	8048831	GG	AA	1946858943
SNP_P4_79152_8048833	NC_021165.1	Ca_kabuli_chr06	8048833	TT	CC	1946858945
SNP_P4_79153_8048837	NC_021165.1	Ca_kabuli_chr06	8048837	TT	AA	1946858947
SNP_P4_79154_8048872	NC_021165.1	Ca_kabuli_chr06	8048872	TT	GG	1946858949
SNP_P4_79155_8048886	NC_021165.1	Ca_kabuli_chr06	8048886	AA	TT	1946858951
SNP_P4_79156_8048903	NC_021165.1	Ca_kabuli_chr06	8048903	AA	TT	1946858953
SNP_P4_79158_8049013	NC_021165.1	Ca_kabuli_chr06	8049013	TT	AA	1946858955
SNP_P4_79159_8049034	NC_021165.1	Ca_kabuli_chr06	8049034	AA	GG	1946858957
SNP_P4_79160_8049045	NC_021165.1	Ca_kabuli_chr06	8049045	AA	GG	1946858960
SNP_P4_79161_8049483	NC_021165.1	Ca_kabuli_chr06	8049483	TT	AA	1946858962
SNP_P4_79162_8050003	NC_021165.1	Ca_kabuli_chr06	8050003	AA	GG	1946858964
SNP_P4_79163_8050941	NC_021165.1	Ca_kabuli_chr06	8050941	CC	GG	1946858966
SNP_P4_79164_8050977	NC_021165.1	Ca_kabuli_chr06	8050977	AA	GG	1946858968
SNP_P4_79165_8051041	NC_021165.1	Ca_kabuli_chr06	8051041	AA	TT	1946858970
SNP_P4_79166_8051593	NC_021165.1	Ca_kabuli_chr06	8051593	TT	CC	1946858972
SNP_P4_79167_8052083	NC_021165.1	Ca_kabuli_chr06	8052083	AA	TT	1946858974
SNP_P4_79168_8053763	NC_021165.1	Ca_kabuli_chr06	8053763	AA	GG	1946858976
SNP_P4_79169_8054402	NC_021165.1	Ca_kabuli_chr06	8054402	GG	CC	1946858978
SNP_P4_79170_8054539	NC_021165.1	Ca_kabuli_chr06	8054539	CC	TT	1946858980
SNP_P4_79171_8054797	NC_021165.1	Ca_kabuli_chr06	8054797	GG	AA	1946858982
SNP_P4_79172_8055704	NC_021165.1	Ca_kabuli_chr06	8055704	TT	CC	1946858984
SNP_P4_79173_8055904	NC_021165.1	Ca_kabuli_chr06	8055904	TT	CC	1946858986
SNP_P4_79174_8056017	NC_021165.1	Ca_kabuli_chr06	8056017	TT	CC	1946858988

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_79176_8056141	NC_021165.1	Ca_kabuli_chr06	8056141	TT	CC	1946858992
SNP_P4_79177_8056197	NC_021165.1	Ca_kabuli_chr06	8056197	CC	TT	1946858994
SNP_P4_79178_8058545	NC_021165.1	Ca_kabuli_chr06	8058545	AA	GG	1946858996
SNP_P4_79179_8058936	NC_021165.1	Ca_kabuli_chr06	8058936	TT	GG	1946858998
SNP_P4_79180_8059472	NC_021165.1	Ca_kabuli_chr06	8059472	TT	CC	1946859000
SNP_P4_79181_8059886	NC_021165.1	Ca_kabuli_chr06	8059886	TT	GG	1946859002
SNP_P4_79182_8059952	NC_021165.1	Ca_kabuli_chr06	8059952	CC	AA	1946859004
SNP_P4_79183_8060322	NC_021165.1	Ca_kabuli_chr06	8060322	AA	TT	1946859006
SNP_P4_79184_8060371	NC_021165.1	Ca_kabuli_chr06	8060371	CC	TT	1946859008
SNP_P4_79186_8061834	NC_021165.1	Ca_kabuli_chr06	8061834	CC	TT	1946859010
SNP_P4_79187_8061843	NC_021165.1	Ca_kabuli_chr06	8061843	TT	CC	1946859012
SNP_P4_79188_8061853	NC_021165.1	Ca_kabuli_chr06	8061853	AA	TT	1946859014
SNP_P4_79189_8061865	NC_021165.1	Ca_kabuli_chr06	8061865	AA	GG	1946859016
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SNP_P4_79191_8061942	NC_021165.1	Ca_kabuli_chr06	8061942	TT	CC	1946859020
SNP_P4_79192_8061969	NC_021165.1	Ca_kabuli_chr06	8061969	CC	TT	1946859022
SNP_P4_79193_8062163	NC_021165.1	Ca_kabuli_chr06	8062163	GG	CC	1946859024
SNP_P4_79195_8062182	NC_021165.1	Ca_kabuli_chr06	8062182	TT	CC	1946859025
SNP_P4_79196_8062228	NC_021165.1	Ca_kabuli_chr06	8062228	TT	CC	1946859027
SNP_P4_79197_8062307	NC_021165.1	Ca_kabuli_chr06	8062307	AA	CC	1946859029
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SNP_P4_79199_8062399	NC_021165.1	Ca_kabuli_chr06	8062399	GG	AA	1946859033
SNP_P4_79200_8062630	NC_021165.1	Ca_kabuli_chr06	8062630	GG	CC	1946859035
SNP_P4_79202_8062719	NC_021165.1	Ca_kabuli_chr06	8062719	GG	CC	1946859037
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SNP_P4_79206_8062744	NC_021165.1	Ca_kabuli_chr06	8062744	GG	AA	1946859045
SNP_P4_79208_8062796	NC_021165.1	Ca_kabuli_chr06	8062796	GG	AA	1946859047
SNP_P4_79209_8064029	NC_021165.1	Ca_kabuli_chr06	8064029	CC	AA	1946859049
SNP_P4_79210_8064347	NC_021165.1	Ca_kabuli_chr06	8064347	TT	GG	1946859051
SNP_P4_79211_8064787	NC_021165.1	Ca_kabuli_chr06	8064787	AA	GG	1946859053
SNP_P4_79212_8064808	NC_021165.1	Ca_kabuli_chr06	8064808	AA	GG	1946859055
SNP_P4_79214_8065231	NC_021165.1	Ca_kabuli_chr06	8065231	TT	GG	1946859057
SNP_P4_79215_8065816	NC_021165.1	Ca_kabuli_chr06	8065816	CC	TT	1946859059
SNP_P4_79216_8066133	NC_021165.1	Ca_kabuli_chr06	8066133	AA	GG	1946859061
SNP_P4_79217_8066158	NC_021165.1	Ca_kabuli_chr06	8066158	GG	AA	1946859063
SNP_P4_79219_8066492	NC_021165.1	Ca_kabuli_chr06	8066492	GG	AA	1946859065
SNP_P4_79220_8070427	NC_021165.1	Ca_kabuli_chr06	8070427	TT	CC	1946859067
SNP_P4_79221_8071639	NC_021165.1	Ca_kabuli_chr06	8071639	CC	AA	1946859069
SNP_P4_79222_8073172	NC_021165.1	Ca_kabuli_chr06	8073172	GG	TT	1946859071

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_79225_8075973	NC_021165.1	Ca_kabuli_chr06	8075973	GG	TT	1946859075
SNP_P4_79226_8076099	NC_021165.1	Ca_kabuli_chr06	8076099	CC	GG	1946859077
SNP_P4_79227_8076124	NC_021165.1	Ca_kabuli_chr06	8076124	TT	CC	1946859079
SNP_P4_79228_8076125	NC_021165.1	Ca_kabuli_chr06	8076125	GG	AA	1946859081
SNP_P4_79229_8076128	NC_021165.1	Ca_kabuli_chr06	8076128	GG	AA	1946859083
SNP_P4_79230_8076157	NC_021165.1	Ca_kabuli_chr06	8076157	CC	AA	1946859085
SNP_P4_79231_8076749	NC_021165.1	Ca_kabuli_chr06	8076749	TT	CC	1946859087
SNP_P4_79232_8076931	NC_021165.1	Ca_kabuli_chr06	8076931	TT	CC	1946859089
SNP_P4_79233_8077196	NC_021165.1	Ca_kabuli_chr06	8077196	TT	CC	1946859091
SNP_P4_79234_8077568	NC_021165.1	Ca_kabuli_chr06	8077568	GG	AA	1946859094
SNP_P4_79236_8078310	NC_021165.1	Ca_kabuli_chr06	8078310	TT	CC	1946859096
SNP_P4_79239_8087337	NC_021165.1	Ca_kabuli_chr06	8087337	TT	AA	1946859098
SNP_P4_79241_8088180	NC_021165.1	Ca_kabuli_chr06	8088180	AA	TT	1946859100
SNP_P4_79242_8088256	NC_021165.1	Ca_kabuli_chr06	8088256	TT	CC	1946859102
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SNP_P4_79244_8088593	NC_021165.1	Ca_kabuli_chr06	8088593	CC	TT	1946859106
SNP_P4_79245_8088618	NC_021165.1	Ca_kabuli_chr06	8088618	CC	GG	1946859108
SNP_P4_79246_8089025	NC_021165.1	Ca_kabuli_chr06	8089025	CC	TT	1946859110
SNP_P4_79247_8089117	NC_021165.1	Ca_kabuli_chr06	8089117	AA	GG	1946859112
SNP_P4_79248_8089254	NC_021165.1	Ca_kabuli_chr06	8089254	TT	GG	1946859114
SNP_P4_79249_8089260	NC_021165.1	Ca_kabuli_chr06	8089260	CC	TT	1946859116
SNP_P4_79250_8090264	NC_021165.1	Ca_kabuli_chr06	8090264	GG	AA	1946859118
SNP_P4_79251_8091765	NC_021165.1	Ca_kabuli_chr06	8091765	TT	AA	1946859120
SNP_P4_79252_8092134	NC_021165.1	Ca_kabuli_chr06	8092134	AA	GG	1946859122
SNP_P4_79253_8092460	NC_021165.1	Ca_kabuli_chr06	8092460	TT	CC	1946859125
SNP_P4_79254_8093235	NC_021165.1	Ca_kabuli_chr06	8093235	CC	AA	1946859127
SNP_P4_79256_8093355	NC_021165.1	Ca_kabuli_chr06	8093355	CC	TT	1946859129
SNP_P4_79257_8093659	NC_021165.1	Ca_kabuli_chr06	8093659	CC	TT	1946859131
SNP_P4_79258_8093709	NC_021165.1	Ca_kabuli_chr06	8093709	GG	AA	1946859133
SNP_P4_79259_8093913	NC_021165.1	Ca_kabuli_chr06	8093913	TT	GG	1946859135
SNP_P4_79260_8095992	NC_021165.1	Ca_kabuli_chr06	8095992	GG	AA	1946859137
SNP_P4_79261_8096871	NC_021165.1	Ca_kabuli_chr06	8096871	TT	AA	1946859139
SNP_P4_79262_8097661	NC_021165.1	Ca_kabuli_chr06	8097661	AA	GG	1946859141
SNP_P4_79263_8098701	NC_021165.1	Ca_kabuli_chr06	8098701	AA	GG	1946859143
SNP_P4_79265_8098976	NC_021165.1	Ca_kabuli_chr06	8098976	TT	CC	1946859145
SNP_P4_79266_8099271	NC_021165.1	Ca_kabuli_chr06	8099271	AA	TT	1946859147
SNP_P4_79267_8099342	NC_021165.1	Ca_kabuli_chr06	8099342	TT	AA	1946859149
SNP_P4_79269_8099421	NC_021165.1	Ca_kabuli_chr06	8099421	AA	GG	1946859151
SNP_P4_79270_8099436	NC_021165.1	Ca_kabuli_chr06	8099436	TT	AA	1946859153
SNP_P4_79271_8099458	NC_021165.1	Ca_kabuli_chr06	8099458	TT	CC	1946859155
SNP_P4_79272_8099471	NC_021165.1	Ca_kabuli_chr06	8099471	TT	GG	1946859157

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_79273_8100319	NC_021165.1	Ca_kabuli_chr06	8100319	AA	GG	1946859159
SNP_P4_79274_8100331	NC_021165.1	Ca_kabuli_chr06	8100331	AA	GG	1946859161
SNP_P4_79276_8100418	NC_021165.1	Ca_kabuli_chr06	8100418	CC	GG	1946859163
SNP_P4_79277_8100584	NC_021165.1	Ca_kabuli_chr06	8100584	AA	TT	1946859165
SNP_P4_79278_8100587	NC_021165.1	Ca_kabuli_chr06	8100587	TT	AA	1946859167
SNP_P4_79279_8101691	NC_021165.1	Ca_kabuli_chr06	8101691	TT	AA	1946859169
SNP_P4_79280_8101694	NC_021165.1	Ca_kabuli_chr06	8101694	CC	TT	1946859171
SNP_P4_79282_8107924	NC_021165.1	Ca_kabuli_chr06	8107924	TT	AA	1946859173
SNP_P4_79283_8108144	NC_021165.1	Ca_kabuli_chr06	8108144	TT	CC	1946859175
SNP_P4_79284_8108394	NC_021165.1	Ca_kabuli_chr06	8108394	AA	GG	1946859177
SNP_P4_79285_8108420	NC_021165.1	Ca_kabuli_chr06	8108420	CC	TT	1946859179
SNP_P4_79286_8110104	NC_021165.1	Ca_kabuli_chr06	8110104	TT	CC	1946859180
SNP_P4_79287_8111924	NC_021165.1	Ca_kabuli_chr06	8111924	CC	TT	1946859182
SNP_P4_79288_8112053	NC_021165.1	Ca_kabuli_chr06	8112053	AA	GG	1946859184
SNP_P4_79289_8112165	NC_021165.1	Ca_kabuli_chr06	8112165	TT	CC	1946859186
SNP_P4_79290_8117996	NC_021165.1	Ca_kabuli_chr06	8117996	CC	TT	1946859188
SNP_P4_79291_8118343	NC_021165.1	Ca_kabuli_chr06	8118343	AA	CC	1946859190
SNP_P4_79292_8118886	NC_021165.1	Ca_kabuli_chr06	8118886	CC	GG	1946859192
SNP_P4_79293_8118915	NC_021165.1	Ca_kabuli_chr06	8118915	AA	CC	1946859194
SNP_P4_79294_8121292	NC_021165.1	Ca_kabuli_chr06	8121292	AA	GG	1946859196
SNP_P4_79295_8122718	NC_021165.1	Ca_kabuli_chr06	8122718	GG	TT	1946859198
SNP_P4_79297_8122822	NC_021165.1	Ca_kabuli_chr06	8122822	AA	TT	1946859200
SNP_P4_79298_8122823	NC_021165.1	Ca_kabuli_chr06	8122823	AA	GG	1946859202
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SNP_P4_79300_8122947	NC_021165.1	Ca_kabuli_chr06	8122947	GG	TT	1946859206
SNP_P4_79301_8123240	NC_021165.1	Ca_kabuli_chr06	8123240	AA	GG	1946859208
SNP_P4_79302_8123439	NC_021165.1	Ca_kabuli_chr06	8123439	GG	AA	1946859210
SNP_P4_79303_8123625	NC_021165.1	Ca_kabuli_chr06	8123625	CC	TT	1946859212
SNP_P4_79305_8123681	NC_021165.1	Ca_kabuli_chr06	8123681	CC	TT	1946859214
SNP_P4_79306_8126124	NC_021165.1	Ca_kabuli_chr06	8126124	AA	GG	1946859216
SNP_P4_79307_8126866	NC_021165.1	Ca_kabuli_chr06	8126866	AA	TT	1946859218
SNP_P4_79308_8126872	NC_021165.1	Ca_kabuli_chr06	8126872	GG	AA	1946859220
SNP_P4_79309_8127651	NC_021165.1	Ca_kabuli_chr06	8127651	AA	CC	1946859222
SNP_P4_79310_8127677	NC_021165.1	Ca_kabuli_chr06	8127677	GG	CC	1946859225
SNP_P4_79311_8127704	NC_021165.1	Ca_kabuli_chr06	8127704	CC	TT	1946859227
SNP_P4_79312_8127717	NC_021165.1	Ca_kabuli_chr06	8127717	AA	TT	1946859229
SNP_P4_79313_8127744	NC_021165.1	Ca_kabuli_chr06	8127744	TT	CC	1946859231
SNP_P4_79314_8127747	NC_021165.1	Ca_kabuli_chr06	8127747	GG	CC	1946859233
SNP_P4_79315_8127756	NC_021165.1	Ca_kabuli_chr06	8127756	GG	AA	1946859235
SNP_P4_79316_8127853	NC_021165.1	Ca_kabuli_chr06	8127853	CC	AA	1946859237
SNP_P4_79317_8128436	NC_021165.1	Ca_kabuli_chr06	8128436	CC	AA	1946859239
SNP_P4_79318_8128465	NC_021165.1	Ca_kabuli_chr06	8128465	TT	CC	1946859241

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_79320_8128812	NC_021165.1	Ca_kabuli_chr06	8128812	GG	AA	1946859245
SNP_P4_79321_8129714	NC_021165.1	Ca_kabuli_chr06	8129714	AA	CC	1946859247
SNP_P4_79322_8130842	NC_021165.1	Ca_kabuli_chr06	8130842	CC	TT	1946859249
SNP_P4_79323_8131036	NC_021165.1	Ca_kabuli_chr06	8131036	AA	GG	1946859251
SNP_P4_79326_8133209	NC_021165.1	Ca_kabuli_chr06	8133209	CC	AA	1946859253
SNP_P4_79328_8133455	NC_021165.1	Ca_kabuli_chr06	8133455	AA	GG	1946859255
SNP_P4_79329_8135714	NC_021165.1	Ca_kabuli_chr06	8135714	CC	TT	1946859257
SNP_P4_79330_8135848	NC_021165.1	Ca_kabuli_chr06	8135848	TT	CC	1946859258
SNP_P4_79331_8135855	NC_021165.1	Ca_kabuli_chr06	8135855	CC	TT	1946859260
SNP_P4_79332_8136511	NC_021165.1	Ca_kabuli_chr06	8136511	CC	TT	1946859262
SNP_P4_79333_8138776	NC_021165.1	Ca_kabuli_chr06	8138776	AA	GG	1946859264
SNP_P4_79334_8139949	NC_021165.1	Ca_kabuli_chr06	8139949	AA	CC	1946859266
SNP_P4_79335_8140131	NC_021165.1	Ca_kabuli_chr06	8140131	CC	AA	1946859268
SNP_P4_79336_8140167	NC_021165.1	Ca_kabuli_chr06	8140167	TT	CC	1946859270
SNP_P4_79337_8140496	NC_021165.1	Ca_kabuli_chr06	8140496	GG	CC	1946859272
SNP_P4_79338_8140512	NC_021165.1	Ca_kabuli_chr06	8140512	GG	AA	1946859275
SNP_P4_79339_8140517	NC_021165.1	Ca_kabuli_chr06	8140517	GG	TT	1946859277
SNP_P4_79340_8140737	NC_021165.1	Ca_kabuli_chr06	8140737	AA	GG	1946859279
SNP_P4_79342_8143999	NC_021165.1	Ca_kabuli_chr06	8143999	CC	AA	1946859281
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SNP_P4_79345_8144029	NC_021165.1	Ca_kabuli_chr06	8144029	GG	TT	1946859287
SNP_P4_79346_8144227	NC_021165.1	Ca_kabuli_chr06	8144227	TT	CC	1946859289
SNP_P4_79347_8144338	NC_021165.1	Ca_kabuli_chr06	8144338	AA	GG	1946859291
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SNP_P4_79349_8144371	NC_021165.1	Ca_kabuli_chr06	8144371	TT	CC	1946859295
SNP_P4_79350_8146197	NC_021165.1	Ca_kabuli_chr06	8146197	CC	GG	1946859297
SNP_P4_79351_8146212	NC_021165.1	Ca_kabuli_chr06	8146212	GG	AA	1946859299
SNP_P4_79352_8146241	NC_021165.1	Ca_kabuli_chr06	8146241	AA	GG	1946859301
SNP_P4_79353_8146791	NC_021165.1	Ca_kabuli_chr06	8146791	AA	GG	1946859303
SNP_P4_79354_8146861	NC_021165.1	Ca_kabuli_chr06	8146861	AA	GG	1946859305
SNP_P4_79355_8153219	NC_021165.1	Ca_kabuli_chr06	8153219	AA	TT	1946859307
SNP_P4_79356_8153604	NC_021165.1	Ca_kabuli_chr06	8153604	AA	TT	1946859309
SNP_P4_79357_8153631	NC_021165.1	Ca_kabuli_chr06	8153631	GG	AA	1946859311
SNP_P4_79358_8153636	NC_021165.1	Ca_kabuli_chr06	8153636	AA	TT	1946859313
SNP_P4_79359_8153694	NC_021165.1	Ca_kabuli_chr06	8153694	GG	AA	1946859315
SNP_P4_79360_8153714	NC_021165.1	Ca_kabuli_chr06	8153714	TT	CC	1946859317
SNP_P4_79361_8153726	NC_021165.1	Ca_kabuli_chr06	8153726	TT	CC	1946859319
SNP_P4_79362_8153772	NC_021165.1	Ca_kabuli_chr06	8153772	AA	TT	1946859321
SNP_P4_79363_8154142	NC_021165.1	Ca_kabuli_chr06	8154142	CC	TT	1946859323
SNP_P4_79365_8156721	NC_021165.1	Ca_kabuli_chr06	8156721	AA	TT	1946859326

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_79367_8159694	NC_021165.1	Ca_kabuli_chr06	8159694	TT	CC	1946859330
SNP_P4_79368_8161056	NC_021165.1	Ca_kabuli_chr06	8161056	TT	CC	1946859332
SNP_P4_79369_8161366	NC_021165.1	Ca_kabuli_chr06	8161366	CC	TT	1946859334
SNP_P4_79370_8161368	NC_021165.1	Ca_kabuli_chr06	8161368	TT	GG	1946859336
SNP_P4_79371_8161975	NC_021165.1	Ca_kabuli_chr06	8161975	GG	AA	1946859338
SNP_P4_79372_8162472	NC_021165.1	Ca_kabuli_chr06	8162472	AA	GG	1946859340
SNP_P4_79374_8164639	NC_021165.1	Ca_kabuli_chr06	8164639	CC	GG	1946859342
SNP_P4_79375_8165162	NC_021165.1	Ca_kabuli_chr06	8165162	TT	AA	1946859344
SNP_P4_79376_8168662	NC_021165.1	Ca_kabuli_chr06	8168662	GG	AA	1946859345
SNP_P4_79377_8169198	NC_021165.1	Ca_kabuli_chr06	8169198	GG	AA	1946859346
SNP_P4_79378_8169502	NC_021165.1	Ca_kabuli_chr06	8169502	GG	CC	1946859347
SNP_P4_79379_8170170	NC_021165.1	Ca_kabuli_chr06	8170170	CC	AA	1946859348
SNP_P4_79380_8171569	NC_021165.1	Ca_kabuli_chr06	8171569	GG	CC	1946859350
SNP_P4_79381_8171581	NC_021165.1	Ca_kabuli_chr06	8171581	AA	GG	1946859352
SNP_P4_79382_8171591	NC_021165.1	Ca_kabuli_chr06	8171591	CC	TT	1946859354
SNP_P4_79383_8173997	NC_021165.1	Ca_kabuli_chr06	8173997	AA	GG	1946859356
SNP_P4_79384_8174049	NC_021165.1	Ca_kabuli_chr06	8174049	CC	TT	1946859358
SNP_P4_79385_8174054	NC_021165.1	Ca_kabuli_chr06	8174054	AA	GG	1946859360
SNP_P4_79386_8174103	NC_021165.1	Ca_kabuli_chr06	8174103	GG	AA	1946859362
SNP_P4_79387_8174139	NC_021165.1	Ca_kabuli_chr06	8174139	TT	CC	1946859364
SNP_P4_79389_8174417	NC_021165.1	Ca_kabuli_chr06	8174417	AA	TT	1946859366
SNP_P4_79390_8174449	NC_021165.1	Ca_kabuli_chr06	8174449	GG	TT	1946859368
SNP_P4_79391_8174490	NC_021165.1	Ca_kabuli_chr06	8174490	AA	GG	1946859370
SNP_P4_79392_8175518	NC_021165.1	Ca_kabuli_chr06	8175518	CC	AA	1946859372
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SNP_P4_79394_8175813	NC_021165.1	Ca_kabuli_chr06	8175813	CC	TT	1946859376
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SNP_P4_79396_8176187	NC_021165.1	Ca_kabuli_chr06	8176187	TT	CC	1946859380
SNP_P4_79397_8176950	NC_021165.1	Ca_kabuli_chr06	8176950	CC	TT	1946859382
SNP_P4_79398_8176953	NC_021165.1	Ca_kabuli_chr06	8176953	AA	GG	1946859384
SNP_P4_79400_8177355	NC_021165.1	Ca_kabuli_chr06	8177355	TT	CC	1946859386
SNP_P4_79401_8177924	NC_021165.1	Ca_kabuli_chr06	8177924	TT	CC	1946859388
SNP_P4_79403_8178326	NC_021165.1	Ca_kabuli_chr06	8178326	AA	CC	1946859390
SNP_P4_79404_8179739	NC_021165.1	Ca_kabuli_chr06	8179739	GG	CC	1946859392
SNP_P4_79405_8181320	NC_021165.1	Ca_kabuli_chr06	8181320	GG	CC	1946859394
SNP_P4_79407_8181978	NC_021165.1	Ca_kabuli_chr06	8181978	CC	AA	1946859396
SNP_P4_79408_8182016	NC_021165.1	Ca_kabuli_chr06	8182016	TT	GG	1946859398
SNP_P4_79409_8182306	NC_021165.1	Ca_kabuli_chr06	8182306	AA	TT	1946859400
SNP_P4_79410_8182355	NC_021165.1	Ca_kabuli_chr06	8182355	AA	GG	1946859402
SNP_P4_79412_8182784	NC_021165.1	Ca_kabuli_chr06	8182784	AA	CC	1946859404
SNP_P4_79413_8182790	NC_021165.1	Ca_kabuli_chr06	8182790	AA	TT	1946859406

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_79415_8192974	NC_021165.1	Ca_kabuli_chr06	8192974	AA	CC	1946859410
SNP_P4_79416_8192976	NC_021165.1	Ca_kabuli_chr06	8192976	CC	AA	1946859412
SNP_P4_79417_8193006	NC_021165.1	Ca_kabuli_chr06	8193006	TT	AA	1946859414
SNP_P4_79418_8193458	NC_021165.1	Ca_kabuli_chr06	8193458	GG	AA	1946859416
SNP_P4_79419_8194460	NC_021165.1	Ca_kabuli_chr06	8194460	TT	GG	1946859418
SNP_P4_79421_8194815	NC_021165.1	Ca_kabuli_chr06	8194815	CC	AA	1946859420
SNP_P4_79422_8195431	NC_021165.1	Ca_kabuli_chr06	8195431	CC	GG	1946859422
SNP_P4_79423_8196378	NC_021165.1	Ca_kabuli_chr06	8196378	TT	AA	1946859424
SNP_P4_79424_8196382	NC_021165.1	Ca_kabuli_chr06	8196382	AA	GG	1946859426
SNP_P4_79425_8196878	NC_021165.1	Ca_kabuli_chr06	8196878	AA	TT	1946859428
SNP_P4_79426_8198573	NC_021165.1	Ca_kabuli_chr06	8198573	CC	TT	1946859430
SNP_P4_79427_8198909	NC_021165.1	Ca_kabuli_chr06	8198909	GG	CC	1946859432
SNP_P4_79428_8199092	NC_021165.1	Ca_kabuli_chr06	8199092	CC	TT	1946859434
SNP_P4_79429_8199152	NC_021165.1	Ca_kabuli_chr06	8199152	CC	AA	1946859436
SNP_P4_79431_8200260	NC_021165.1	Ca_kabuli_chr06	8200260	AA	GG	1946859438
SNP_P4_79432_8211065	NC_021165.1	Ca_kabuli_chr06	8211065	AA	GG	1946859440
SNP_P4_79433_8218518	NC_021165.1	Ca_kabuli_chr06	8218518	AA	TT	1946859442
SNP_P4_79434_8230177	NC_021165.1	Ca_kabuli_chr06	8230177	TT	GG	1946859444
SNP_P4_79435_8230180	NC_021165.1	Ca_kabuli_chr06	8230180	TT	GG	1946859446
SNP_P4_79436_8230330	NC_021165.1	Ca_kabuli_chr06	8230330	GG	AA	1946859448
SNP_P4_79439_8254293	NC_021165.1	Ca_kabuli_chr06	8254293	CC	TT	1946859450
SNP_P4_79440_8267794	NC_021165.1	Ca_kabuli_chr06	8267794	CC	AA	1946859452
SNP_P4_79441_8279402	NC_021165.1	Ca_kabuli_chr06	8279402	GG	AA	1946859454
SNP_P4_79442_8290244	NC_021165.1	Ca_kabuli_chr06	8290244	AA	GG	1946859456
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SNP_P4_79444_8309139	NC_021165.1	Ca_kabuli_chr06	8309139	GG	TT	1946859460
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SNP_P4_79447_8318726	NC_021165.1	Ca_kabuli_chr06	8318726	TT	CC	1946859464
SNP_P4_79448_8319297	NC_021165.1	Ca_kabuli_chr06	8319297	TT	GG	1946859466
SNP_P4_79449_8319747	NC_021165.1	Ca_kabuli_chr06	8319747	TT	CC	1946859468
SNP_P4_79450_8333689	NC_021165.1	Ca_kabuli_chr06	8333689	TT	CC	1946859470
SNP_P4_79451_8347070	NC_021165.1	Ca_kabuli_chr06	8347070	GG	TT	1946859472
SNP_P4_79452_8354929	NC_021165.1	Ca_kabuli_chr06	8354929	TT	CC	1946859474
SNP_P4_79453_8361266	NC_021165.1	Ca_kabuli_chr06	8361266	GG	AA	1946859476
SNP_P4_79454_8364641	NC_021165.1	Ca_kabuli_chr06	8364641	GG	AA	1946859478
SNP_P4_79455_8372959	NC_021165.1	Ca_kabuli_chr06	8372959	TT	AA	1946859480
SNP_P4_79456_8391265	NC_021165.1	Ca_kabuli_chr06	8391265	AA	GG	1946859482
SNP_P4_79457_8394340	NC_021165.1	Ca_kabuli_chr06	8394340	TT	CC	1946859484
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SNP_P4_79460_8418651	NC_021165.1	Ca_kabuli_chr06	8418651	CC	TT	1946859488
SNP_P4_79461_8418660	NC_021165.1	Ca_kabuli_chr06	8418660	TT	CC	1946859490

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_79463_8433743	NC_021165.1	Ca_kabuli_chr06	8433743	AA	GG	1946859494
SNP_P4_79464_8433745	NC_021165.1	Ca_kabuli_chr06	8433745	TT	AA	1946859496
SNP_P4_79465_8446218	NC_021165.1	Ca_kabuli_chr06	8446218	TT	AA	1946859498
SNP_P4_79466_8448335	NC_021165.1	Ca_kabuli_chr06	8448335	TT	GG	1946859500
SNP_P4_79467_8448729	NC_021165.1	Ca_kabuli_chr06	8448729	TT	AA	1946859502
SNP_P4_79468_8448741	NC_021165.1	Ca_kabuli_chr06	8448741	CC	AA	1946859504
SNP_P4_79469_8448823	NC_021165.1	Ca_kabuli_chr06	8448823	CC	TT	1946859506
SNP_P4_79470_8448825	NC_021165.1	Ca_kabuli_chr06	8448825	AA	GG	1946859508
SNP_P4_79471_8449386	NC_021165.1	Ca_kabuli_chr06	8449386	AA	GG	1946859510
SNP_P4_79472_8449470	NC_021165.1	Ca_kabuli_chr06	8449470	CC	GG	1946859512
SNP_P4_79473_8451562	NC_021165.1	Ca_kabuli_chr06	8451562	AA	GG	1946859514
SNP_P4_79474_8451627	NC_021165.1	Ca_kabuli_chr06	8451627	GG	CC	1946859516
SNP_P4_79475_8451648	NC_021165.1	Ca_kabuli_chr06	8451648	TT	CC	1946859518
SNP_P4_79476_8452359	NC_021165.1	Ca_kabuli_chr06	8452359	CC	TT	1946859520
SNP_P4_79477_8452376	NC_021165.1	Ca_kabuli_chr06	8452376	AA	GG	1946859522
SNP_P4_79478_8477671	NC_021165.1	Ca_kabuli_chr06	8477671	CC	TT	1946859524
SNP_P4_79479_8478122	NC_021165.1	Ca_kabuli_chr06	8478122	GG	AA	1946859526
SNP_P4_79480_8512534	NC_021165.1	Ca_kabuli_chr06	8512534	TT	GG	1946859527
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SNP_P4_79483_8522129	NC_021165.1	Ca_kabuli_chr06	8522129	GG	AA	1946859533
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SNP_P4_79485_8522512	NC_021165.1	Ca_kabuli_chr06	8522512	GG	TT	1946859537
SNP_P4_79486_8523061	NC_021165.1	Ca_kabuli_chr06	8523061	CC	GG	1946859539
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SNP_P4_79489_8527799	NC_021165.1	Ca_kabuli_chr06	8527799	AA	GG	1946859545
SNP_P4_79490_8533518	NC_021165.1	Ca_kabuli_chr06	8533518	GG	CC	1946859547
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SNP_P4_79495_8663797	NC_021165.1	Ca_kabuli_chr06	8663797	AA	GG	1946859551
SNP_P4_79497_8675164	NC_021165.1	Ca_kabuli_chr06	8675164	TT	GG	1946859553
SNP_P4_79498_8679602	NC_021165.1	Ca_kabuli_chr06	8679602	AA	GG	1946859555
SNP_P4_79499_8682586	NC_021165.1	Ca_kabuli_chr06	8682586	AA	CC	1946859557
SNP_P4_79500_8682588	NC_021165.1	Ca_kabuli_chr06	8682588	AA	GG	1946859559
SNP_P4_79501_8699558	NC_021165.1	Ca_kabuli_chr06	8699558	CC	TT	1946859561
SNP_P4_79502_8700197	NC_021165.1	Ca_kabuli_chr06	8700197	GG	AA	1946859562
SNP_P4_79503_8700411	NC_021165.1	Ca_kabuli_chr06	8700411	CC	TT	1946859564
SNP_P4_79505_8723023	NC_021165.1	Ca_kabuli_chr06	8723023	TT	GG	1946859566
SNP_P4_79506_8723218	NC_021165.1	Ca_kabuli_chr06	8723218	GG	CC	1946859568
SNP_P4_79507_8723446	NC_021165.1	Ca_kabuli_chr06	8723446	GG	CC	1946859570
SNP_P4_79508_8723571	NC_021165.1	Ca_kabuli_chr06	8723571	CC	GG	1946859572

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_79510_8740965	NC_021165.1	Ca_kabuli_chr06	8740965	GG	AA	1946859576
SNP_P4_79511_8755862	NC_021165.1	Ca_kabuli_chr06	8755862	AA	GG	1946859578
SNP_P4_79512_8759848	NC_021165.1	Ca_kabuli_chr06	8759848	AA	TT	1946859580
SNP_P4_79514_8779978	NC_021165.1	Ca_kabuli_chr06	8779978	TT	CC	1946859582
SNP_P4_79515_8788403	NC_021165.1	Ca_kabuli_chr06	8788403	CC	TT	1946859584
SNP_P4_79516_8796436	NC_021165.1	Ca_kabuli_chr06	8796436	TT	CC	1946859586
SNP_P4_79517_8796693	NC_021165.1	Ca_kabuli_chr06	8796693	CC	TT	1946859587
SNP_P4_79518_8796701	NC_021165.1	Ca_kabuli_chr06	8796701	CC	TT	1946859589
SNP_P4_79519_8796873	NC_021165.1	Ca_kabuli_chr06	8796873	AA	CC	1946859591
SNP_P4_79520_8796939	NC_021165.1	Ca_kabuli_chr06	8796939	CC	AA	1946859593
SNP_P4_79522_8797066	NC_021165.1	Ca_kabuli_chr06	8797066	AA	GG	1946859595
SNP_P4_79523_8798031	NC_021165.1	Ca_kabuli_chr06	8798031	TT	GG	1946859597
SNP_P4_79524_8809501	NC_021165.1	Ca_kabuli_chr06	8809501	AA	TT	1946859599
SNP_P4_79526_8809838	NC_021165.1	Ca_kabuli_chr06	8809838	AA	GG	1946859601
SNP_P4_79527_8809840	NC_021165.1	Ca_kabuli_chr06	8809840	TT	AA	1946859603
SNP_P4_79528_8814615	NC_021165.1	Ca_kabuli_chr06	8814615	GG	TT	1946859605
SNP_P4_79529_8819513	NC_021165.1	Ca_kabuli_chr06	8819513	TT	CC	1946859607
SNP_P4_79530_8820884	NC_021165.1	Ca_kabuli_chr06	8820884	GG	AA	1946859609
SNP_P4_79531_8821040	NC_021165.1	Ca_kabuli_chr06	8821040	GG	AA	1946859611
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SNP_P4_79534_8829081	NC_021165.1	Ca_kabuli_chr06	8829081	TT	CC	1946859617
SNP_P4_79535_8829800	NC_021165.1	Ca_kabuli_chr06	8829800	AA	GG	1946859619
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SNP_P4_79540_8847575	NC_021165.1	Ca_kabuli_chr06	8847575	TT	CC	1946859627
SNP_P4_79541_8847577	NC_021165.1	Ca_kabuli_chr06	8847577	TT	GG	1946859629
SNP_P4_79542_8847585	NC_021165.1	Ca_kabuli_chr06	8847585	CC	TT	1946859631
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SNP_P4_79545_8858905	NC_021165.1	Ca_kabuli_chr06	8858905	GG	CC	1946859635
SNP_P4_79546_8862708	NC_021165.1	Ca_kabuli_chr06	8862708	TT	CC	1946859637
SNP_P4_79547_8863736	NC_021165.1	Ca_kabuli_chr06	8863736	AA	GG	1946859638
SNP_P4_79548_8879497	NC_021165.1	Ca_kabuli_chr06	8879497	TT	AA	1946859640
SNP_P4_79550_8914484	NC_021165.1	Ca_kabuli_chr06	8914484	GG	TT	1946859642
SNP_P4_79551_8920153	NC_021165.1	Ca_kabuli_chr06	8920153	CC	TT	1946859644
SNP_P4_79552_8925079	NC_021165.1	Ca_kabuli_chr06	8925079	AA	TT	1946859646
SNP_P4_79553_8925194	NC_021165.1	Ca_kabuli_chr06	8925194	AA	GG	1946859648
SNP_P4_79554_8950805	NC_021165.1	Ca_kabuli_chr06	8950805	AA	TT	1946859650
SNP_P4_79555_8987539	NC_021165.1	Ca_kabuli_chr06	8987539	TT	CC	1946859652
SNP_P4_79556_9000470	NC_021165.1	Ca_kabuli_chr06	9000470	GG	AA	1946859654

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_79559_9001656	NC_021165.1	Ca_kabuli_chr06	9001656	AA	GG	1946859660
SNP_P4_79562_9016542	NC_021165.1	Ca_kabuli_chr06	9016542	TT	CC	1946859662
SNP_P4_79563_9017982	NC_021165.1	Ca_kabuli_chr06	9017982	AA	GG	1946859664
SNP_P4_79565_9019073	NC_021165.1	Ca_kabuli_chr06	9019073	CC	TT	1946859666
SNP_P4_79566_9019084	NC_021165.1	Ca_kabuli_chr06	9019084	AA	GG	1946859668
SNP_P4_79567_9030714	NC_021165.1	Ca_kabuli_chr06	9030714	CC	GG	1946859670
SNP_P4_79568_9060357	NC_021165.1	Ca_kabuli_chr06	9060357	CC	GG	1946859672
SNP_P4_79569_9060366	NC_021165.1	Ca_kabuli_chr06	9060366	CC	TT	1946859674
SNP_P4_79571_9060465	NC_021165.1	Ca_kabuli_chr06	9060465	AA	CC	1946859676
SNP_P4_79572_9060495	NC_021165.1	Ca_kabuli_chr06	9060495	AA	CC	1946859678
SNP_P4_79573_9060621	NC_021165.1	Ca_kabuli_chr06	9060621	AA	GG	1946859680
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SNP_P4_79577_9101468	NC_021165.1	Ca_kabuli_chr06	9101468	GG	TT	1946859688
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SNP_P4_79583_9128629	NC_021165.1	Ca_kabuli_chr06	9128629	GG	AA	1946859697
SNP_P4_79584_9133807	NC_021165.1	Ca_kabuli_chr06	9133807	AA	GG	1946859699
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SNP_P4_79586_9171307	NC_021165.1	Ca_kabuli_chr06	9171307	GG	AA	1946859703
SNP_P4_79587_9192765	NC_021165.1	Ca_kabuli_chr06	9192765	GG	TT	1946859705
SNP_P4_79589_9204000	NC_021165.1	Ca_kabuli_chr06	9204000	TT	CC	1946859706
SNP_P4_79590_9225074	NC_021165.1	Ca_kabuli_chr06	9225074	AA	GG	1946859708
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SNP_P4_79592_9238608	NC_021165.1	Ca_kabuli_chr06	9238608	AA	CC	1946859712
SNP_P4_79593_9238610	NC_021165.1	Ca_kabuli_chr06	9238610	AA	CC	1946859714
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SNP_P4_79598_9258869	NC_021165.1	Ca_kabuli_chr06	9258869	AA	TT	1946859720
SNP_P4_79599_9296260	NC_021165.1	Ca_kabuli_chr06	9296260	CC	AA	1946859722
SNP_P4_79600_9298816	NC_021165.1	Ca_kabuli_chr06	9298816	AA	TT	1946859724
SNP_P4_79601_9306849	NC_021165.1	Ca_kabuli_chr06	9306849	GG	TT	1946859726
SNP_P4_79602_9308450	NC_021165.1	Ca_kabuli_chr06	9308450	CC	TT	1946859728
SNP_P4_79603_9311572	NC_021165.1	Ca_kabuli_chr06	9311572	TT	AA	1946859730
SNP_P4_79604_9333003	NC_021165.1	Ca_kabuli_chr06	9333003	GG	TT	1946859732
SNP_P4_79605_9334907	NC_021165.1	Ca_kabuli_chr06	9334907	GG	CC	1946859734
SNP_P4_79607_9347530	NC_021165.1	Ca_kabuli_chr06	9347530	CC	TT	1946859736

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_79610_9443970	NC_021165.1	Ca_kabuli_chr06	9443970	GG	TT	1946859742
SNP_P4_79611_9448662	NC_021165.1	Ca_kabuli_chr06	9448662	GG	TT	1946859744
SNP_P4_79612_9454457	NC_021165.1	Ca_kabuli_chr06	9454457	CC	TT	1946859746
SNP_P4_79613_9454545	NC_021165.1	Ca_kabuli_chr06	9454545	TT	CC	1946859748
SNP_P4_79614_9483784	NC_021165.1	Ca_kabuli_chr06	9483784	TT	CC	1946859750
SNP_P4_79616_9501200	NC_021165.1	Ca_kabuli_chr06	9501200	TT	CC	1946859752
SNP_P4_79617_9519481	NC_021165.1	Ca_kabuli_chr06	9519481	CC	TT	1946859754
SNP_P4_79618_9579545	NC_021165.1	Ca_kabuli_chr06	9579545	GG	AA	1946859756
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SNP_P4_79623_9649374	NC_021165.1	Ca_kabuli_chr06	9649374	TT	CC	1946859766
SNP_P4_79624_9661680	NC_021165.1	Ca_kabuli_chr06	9661680	GG	AA	1946859768
SNP_P4_79625_9675020	NC_021165.1	Ca_kabuli_chr06	9675020	GG	TT	1946859770
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SNP_P4_79630_9781218	NC_021165.1	Ca_kabuli_chr06	9781218	AA	GG	1946859780
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SNP_P4_79641_9906509	NC_021165.1	Ca_kabuli_chr06	9906509	CC	TT	1946859800
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SNP_P4_79647_9980273	NC_021165.1	Ca_kabuli_chr06	9980273	AA	CC	1946859806
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SNP_P4_79652_10033887	NC_021165.1	Ca_kabuli_chr06	10033887	GG	AA	1946859812
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SNP_P4_79654_10060474	NC_021165.1	Ca_kabuli_chr06	10060474	GG	AA	1946859816
SNP_P4_79655_10062198	NC_021165.1	Ca_kabuli_chr06	10062198	TT	AA	1946859818
SNP_P4_79656_10062199	NC_021165.1	Ca_kabuli_chr06	10062199	TT	GG	1946859820

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_79660_10107280	NC_021165.1	Ca_kabuli_chr06	10107280	TT	CC	1946859826
SNP_P4_79664_10164847	NC_021165.1	Ca_kabuli_chr06	10164847	GG	TT	1946859828
SNP_P4_79665_10170774	NC_021165.1	Ca_kabuli_chr06	10170774	AA	TT	1946859830
SNP_P4_79666_10174446	NC_021165.1	Ca_kabuli_chr06	10174446	AA	TT	1946859832
SNP_P4_79668_10207345	NC_021165.1	Ca_kabuli_chr06	10207345	GG	AA	1946859834
SNP_P4_79669_10209172	NC_021165.1	Ca_kabuli_chr06	10209172	CC	TT	1946859836
SNP_P4_79670_10230792	NC_021165.1	Ca_kabuli_chr06	10230792	TT	CC	1946859838
SNP_P4_79671_10233002	NC_021165.1	Ca_kabuli_chr06	10233002	GG	AA	1946859840
SNP_P4_79672_10241965	NC_021165.1	Ca_kabuli_chr06	10241965	CC	AA	1946859842
SNP_P4_79674_10257722	NC_021165.1	Ca_kabuli_chr06	10257722	CC	TT	1946859844
SNP_P4_79675_10304535	NC_021165.1	Ca_kabuli_chr06	10304535	AA	GG	1946859846
SNP_P4_79676_10321883	NC_021165.1	Ca_kabuli_chr06	10321883	AA	GG	1946859848
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SNP_P4_79679_10323561	NC_021165.1	Ca_kabuli_chr06	10323561	TT	AA	1946859854
SNP_P4_79681_10329060	NC_021165.1	Ca_kabuli_chr06	10329060	AA	GG	1946859856
SNP_P4_79682_10331061	NC_021165.1	Ca_kabuli_chr06	10331061	TT	CC	1946859858
SNP_P4_79683_10331130	NC_021165.1	Ca_kabuli_chr06	10331130	CC	TT	1946859860
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SNP_P4_79690_10383891	NC_021165.1	Ca_kabuli_chr06	10383891	GG	AA	1946859868
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SNP_P4_79692_10493066	NC_021165.1	Ca_kabuli_chr06	10493066	GG	AA	1946859872
SNP_P4_79694_10498273	NC_021165.1	Ca_kabuli_chr06	10498273	GG	AA	1946859874
SNP_P4_79696_10502595	NC_021165.1	Ca_kabuli_chr06	10502595	TT	AA	1946859876
SNP_P4_79697_10502624	NC_021165.1	Ca_kabuli_chr06	10502624	CC	GG	1946859878
SNP_P4_79698_10502630	NC_021165.1	Ca_kabuli_chr06	10502630	AA	GG	1946859880
SNP_P4_79699_10502684	NC_021165.1	Ca_kabuli_chr06	10502684	CC	TT	1946859882
SNP_P4_79701_10503183	NC_021165.1	Ca_kabuli_chr06	10503183	CC	AA	1946859884
SNP_P4_79703_10503263	NC_021165.1	Ca_kabuli_chr06	10503263	AA	GG	1946859886
SNP_P4_79704_10503385	NC_021165.1	Ca_kabuli_chr06	10503385	GG	AA	1946859888
SNP_P4_79705_10503426	NC_021165.1	Ca_kabuli_chr06	10503426	AA	GG	1946859890
SNP_P4_79706_10503864	NC_021165.1	Ca_kabuli_chr06	10503864	TT	GG	1946859892
SNP_P4_79707_10503876	NC_021165.1	Ca_kabuli_chr06	10503876	AA	GG	1946859894
SNP_P4_79708_10507686	NC_021165.1	Ca_kabuli_chr06	10507686	TT	CC	1946859896
SNP_P4_79709_10508416	NC_021165.1	Ca_kabuli_chr06	10508416	GG	CC	1946859898
SNP_P4_79710_10508829	NC_021165.1	Ca_kabuli_chr06	10508829	GG	AA	1946859900
SNP_P4_79711_10509749	NC_021165.1	Ca_kabuli_chr06	10509749	AA	GG	1946859902
SNP_P4_79712_10510492	NC_021165.1	Ca_kabuli_chr06	10510492	TT	AA	1946859904

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_79715_10510780	NC_021165.1	Ca_kabuli_chr06	10510780	CC	AA	1946859908
SNP_P4_79716_10511971	NC_021165.1	Ca_kabuli_chr06	10511971	CC	AA	1946859910
SNP_P4_79717_10512021	NC_021165.1	Ca_kabuli_chr06	10512021	AA	GG	1946859912
SNP_P4_79722_10514105	NC_021165.1	Ca_kabuli_chr06	10514105	CC	TT	1946859914
SNP_P4_79725_10514610	NC_021165.1	Ca_kabuli_chr06	10514610	GG	AA	1946859916
SNP_P4_79726_10514621	NC_021165.1	Ca_kabuli_chr06	10514621	CC	TT	1946859918
SNP_P4_79727_10514819	NC_021165.1	Ca_kabuli_chr06	10514819	AA	GG	1946859920
SNP_P4_79728_10514830	NC_021165.1	Ca_kabuli_chr06	10514830	CC	TT	1946859922
SNP_P4_79729_10515365	NC_021165.1	Ca_kabuli_chr06	10515365	GG	AA	1946859924
SNP_P4_79730_10515368	NC_021165.1	Ca_kabuli_chr06	10515368	CC	TT	1946859926
SNP_P4_79731_10515384	NC_021165.1	Ca_kabuli_chr06	10515384	TT	AA	1946859928
SNP_P4_79732_10515401	NC_021165.1	Ca_kabuli_chr06	10515401	TT	CC	1946859930
SNP_P4_79734_10516341	NC_021165.1	Ca_kabuli_chr06	10516341	CC	TT	1946859932
SNP_P4_79735_10516537	NC_021165.1	Ca_kabuli_chr06	10516537	AA	CC	1946859935
SNP_P4_79736_10516576	NC_021165.1	Ca_kabuli_chr06	10516576	GG	AA	1946859937
SNP_P4_79737_10516802	NC_021165.1	Ca_kabuli_chr06	10516802	TT	CC	1946859939
SNP_P4_79738_10516826	NC_021165.1	Ca_kabuli_chr06	10516826	AA	GG	1946859941
SNP_P4_79739_10516837	NC_021165.1	Ca_kabuli_chr06	10516837	TT	GG	1946859943
SNP_P4_79740_10516842	NC_021165.1	Ca_kabuli_chr06	10516842	CC	TT	1946859945
SNP_P4_79741_10516844	NC_021165.1	Ca_kabuli_chr06	10516844	AA	GG	1946859947
SNP_P4_79742_10517023	NC_021165.1	Ca_kabuli_chr06	10517023	AA	CC	1946859949
SNP_P4_79743_10517400	NC_021165.1	Ca_kabuli_chr06	10517400	TT	GG	1946859951
SNP_P4_79744_10517426	NC_021165.1	Ca_kabuli_chr06	10517426	CC	TT	1946859953
SNP_P4_79745_10517427	NC_021165.1	Ca_kabuli_chr06	10517427	AA	GG	1946859955
SNP_P4_79746_10517441	NC_021165.1	Ca_kabuli_chr06	10517441	AA	TT	1946859957
SNP_P4_79747_10517444	NC_021165.1	Ca_kabuli_chr06	10517444	AA	GG	1946859959
SNP_P4_79749_10517508	NC_021165.1	Ca_kabuli_chr06	10517508	GG	AA	1946859960
SNP_P4_79750_10517518	NC_021165.1	Ca_kabuli_chr06	10517518	AA	CC	1946859962
SNP_P4_79751_10552059	NC_021165.1	Ca_kabuli_chr06	10552059	TT	CC	1946859964
SNP_P4_79754_10553604	NC_021165.1	Ca_kabuli_chr06	10553604	AA	TT	1946859966
SNP_P4_79755_10553628	NC_021165.1	Ca_kabuli_chr06	10553628	AA	GG	1946859968
SNP_P4_79756_10553839	NC_021165.1	Ca_kabuli_chr06	10553839	AA	GG	1946859970
SNP_P4_79757_10553876	NC_021165.1	Ca_kabuli_chr06	10553876	AA	GG	1946859972
SNP_P4_79758_10553902	NC_021165.1	Ca_kabuli_chr06	10553902	CC	TT	1946859974
SNP_P4_79759_10553916	NC_021165.1	Ca_kabuli_chr06	10553916	GG	AA	1946859976
SNP_P4_79760_10554051	NC_021165.1	Ca_kabuli_chr06	10554051	AA	TT	1946859978
SNP_P4_79762_10554175	NC_021165.1	Ca_kabuli_chr06	10554175	GG	TT	1946859980
SNP_P4_79763_10554211	NC_021165.1	Ca_kabuli_chr06	10554211	AA	TT	1946859982
SNP_P4_79764_10554245	NC_021165.1	Ca_kabuli_chr06	10554245	GG	AA	1946859984
SNP_P4_79765_10554300	NC_021165.1	Ca_kabuli_chr06	10554300	GG	AA	1946859986
SNP_P4_79766_10554334	NC_021165.1	Ca_kabuli_chr06	10554334	TT	GG	1946859988

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_79770_10555524	NC_021165.1	Ca_kabuli_chr06	10555524	GG	AA	1946859994
SNP_P4_79771_10555525	NC_021165.1	Ca_kabuli_chr06	10555525	GG	AA	1946859995
SNP_P4_79773_10555698	NC_021165.1	Ca_kabuli_chr06	10555698	AA	TT	1946859997
SNP_P4_79774_10555765	NC_021165.1	Ca_kabuli_chr06	10555765	AA	TT	1946859999
SNP_P4_79775_10555788	NC_021165.1	Ca_kabuli_chr06	10555788	TT	CC	1946860001
SNP_P4_79776_10555791	NC_021165.1	Ca_kabuli_chr06	10555791	CC	TT	1946860003
SNP_P4_79777_10555794	NC_021165.1	Ca_kabuli_chr06	10555794	CC	TT	1946860005
SNP_P4_79778_10555818	NC_021165.1	Ca_kabuli_chr06	10555818	AA	TT	1946860007
SNP_P4_79779_10555841	NC_021165.1	Ca_kabuli_chr06	10555841	CC	TT	1946860009
SNP_P4_79780_10555868	NC_021165.1	Ca_kabuli_chr06	10555868	GG	AA	1946860011
SNP_P4_79781_10555898	NC_021165.1	Ca_kabuli_chr06	10555898	TT	CC	1946860013
SNP_P4_79782_10555901	NC_021165.1	Ca_kabuli_chr06	10555901	AA	TT	1946860015
SNP_P4_79783_10556260	NC_021165.1	Ca_kabuli_chr06	10556260	AA	GG	1946860017
SNP_P4_79784_10556268	NC_021165.1	Ca_kabuli_chr06	10556268	CC	TT	1946860019
SNP_P4_79785_10556311	NC_021165.1	Ca_kabuli_chr06	10556311	AA	CC	1946860021
SNP_P4_79786_10556786	NC_021165.1	Ca_kabuli_chr06	10556786	AA	CC	1946860023
SNP_P4_79787_10556803	NC_021165.1	Ca_kabuli_chr06	10556803	CC	TT	1946860025
SNP_P4_79789_10557427	NC_021165.1	Ca_kabuli_chr06	10557427	CC	TT	1946860027
SNP_P4_79790_10557544	NC_021165.1	Ca_kabuli_chr06	10557544	GG	AA	1946860029
SNP_P4_79791_10557751	NC_021165.1	Ca_kabuli_chr06	10557751	CC	TT	1946860031
SNP_P4_79792_10558619	NC_021165.1	Ca_kabuli_chr06	10558619	TT	GG	1946860033
SNP_P4_79793_10558783	NC_021165.1	Ca_kabuli_chr06	10558783	AA	GG	1946860035
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SNP_P4_79796_10559113	NC_021165.1	Ca_kabuli_chr06	10559113	AA	GG	1946860040
SNP_P4_79797_10559115	NC_021165.1	Ca_kabuli_chr06	10559115	CC	TT	1946860042
SNP_P4_79798_10559230	NC_021165.1	Ca_kabuli_chr06	10559230	TT	CC	1946860044
SNP_P4_79799_10559254	NC_021165.1	Ca_kabuli_chr06	10559254	GG	TT	1946860046
SNP_P4_79800_10559267	NC_021165.1	Ca_kabuli_chr06	10559267	CC	AA	1946860048
SNP_P4_79801_10559288	NC_021165.1	Ca_kabuli_chr06	10559288	GG	AA	1946860050
SNP_P4_79802_10559308	NC_021165.1	Ca_kabuli_chr06	10559308	CC	TT	1946860052
SNP_P4_79803_10559316	NC_021165.1	Ca_kabuli_chr06	10559316	CC	TT	1946860054
SNP_P4_79804_10559333	NC_021165.1	Ca_kabuli_chr06	10559333	TT	CC	1946860055
SNP_P4_79805_10559448	NC_021165.1	Ca_kabuli_chr06	10559448	TT	CC	1946860057
SNP_P4_79806_10560918	NC_021165.1	Ca_kabuli_chr06	10560918	TT	GG	1946860059
SNP_P4_79807_10560982	NC_021165.1	Ca_kabuli_chr06	10560982	AA	TT	1946860061
SNP_P4_79808_10560983	NC_021165.1	Ca_kabuli_chr06	10560983	TT	AA	1946860063
SNP_P4_79810_10562839	NC_021165.1	Ca_kabuli_chr06	10562839	AA	GG	1946860065
SNP_P4_79811_10562879	NC_021165.1	Ca_kabuli_chr06	10562879	AA	GG	1946860067
SNP_P4_79812_10562885	NC_021165.1	Ca_kabuli_chr06	10562885	AA	GG	1946860069

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_79814_10563084	NC_021165.1	Ca_kabuli_chr06	10563084	AA	TT	1946860072
SNP_P4_79816_10564021	NC_021165.1	Ca_kabuli_chr06	10564021	CC	TT	1946860074
SNP_P4_79818_10564070	NC_021165.1	Ca_kabuli_chr06	10564070	AA	GG	1946860077
SNP_P4_79820_10565167	NC_021165.1	Ca_kabuli_chr06	10565167	TT	CC	1946860079
SNP_P4_79821_10565192	NC_021165.1	Ca_kabuli_chr06	10565192	CC	TT	1946860081
SNP_P4_79822_10565211	NC_021165.1	Ca_kabuli_chr06	10565211	TT	CC	1946860083
SNP_P4_79823_10565230	NC_021165.1	Ca_kabuli_chr06	10565230	AA	GG	1946860085
SNP_P4_79824_10565252	NC_021165.1	Ca_kabuli_chr06	10565252	AA	GG	1946860087
SNP_P4_79825_10565819	NC_021165.1	Ca_kabuli_chr06	10565819	AA	GG	1946860089
SNP_P4_79826_10565828	NC_021165.1	Ca_kabuli_chr06	10565828	CC	AA	1946860091
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SNP_P4_79829_10566137	NC_021165.1	Ca_kabuli_chr06	10566137	AA	CC	1946860097
SNP_P4_79830_10566181	NC_021165.1	Ca_kabuli_chr06	10566181	AA	GG	1946860099
SNP_P4_79831_10566241	NC_021165.1	Ca_kabuli_chr06	10566241	AA	GG	1946860101
SNP_P4_79832_10566416	NC_021165.1	Ca_kabuli_chr06	10566416	TT	CC	1946860103
SNP_P4_79833_10566453	NC_021165.1	Ca_kabuli_chr06	10566453	GG	AA	1946860105
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SNP_P4_79847_10575096	NC_021165.1	Ca_kabuli_chr06	10575096	TT	AA	1946860129
SNP_P4_79848_10575384	NC_021165.1	Ca_kabuli_chr06	10575384	AA	GG	1946860131
SNP_P4_79850_10576388	NC_021165.1	Ca_kabuli_chr06	10576388	CC	TT	1946860133
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SNP_P4_79852_10576483	NC_021165.1	Ca_kabuli_chr06	10576483	AA	GG	1946860137
SNP_P4_79854_10576624	NC_021165.1	Ca_kabuli_chr06	10576624	AA	GG	1946860139
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SNP_P4_79858_10577072	NC_021165.1	Ca_kabuli_chr06	10577072	TT	AA	1946860147
SNP_P4_79859_10577092	NC_021165.1	Ca_kabuli_chr06	10577092	CC	TT	1946860149
SNP_P4_79860_10577097	NC_021165.1	Ca_kabuli_chr06	10577097	TT	CC	1946860151
SNP_P4_79861_10577104	NC_021165.1	Ca_kabuli_chr06	10577104	TT	CC	1946860153

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_79864_10577369	NC_021165.1	Ca_kabuli_chr06	10577369	GG	AA	1946860159
SNP_P4_79865_10577637	NC_021165.1	Ca_kabuli_chr06	10577637	AA	GG	1946860161
SNP_P4_79866_10577693	NC_021165.1	Ca_kabuli_chr06	10577693	AA	TT	1946860163
SNP_P4_79867_10577822	NC_021165.1	Ca_kabuli_chr06	10577822	CC	TT	1946860165
SNP_P4_79868_10578011	NC_021165.1	Ca_kabuli_chr06	10578011	GG	AA	1946860167
SNP_P4_79869_10578444	NC_021165.1	Ca_kabuli_chr06	10578444	AA	TT	1946860169
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SNP_P4_79871_10578482	NC_021165.1	Ca_kabuli_chr06	10578482	TT	CC	1946860173
SNP_P4_79872_10578811	NC_021165.1	Ca_kabuli_chr06	10578811	GG	AA	1946860175
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SNP_P4_79876_10578970	NC_021165.1	Ca_kabuli_chr06	10578970	GG	AA	1946860183
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SNP_P4_79882_10580035	NC_021165.1	Ca_kabuli_chr06	10580035	AA	GG	1946860195
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SNP_P4_79884_10583055	NC_021165.1	Ca_kabuli_chr06	10583055	CC	AA	1946860199
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SNP_P4_79887_10583065	NC_021165.1	Ca_kabuli_chr06	10583065	GG	CC	1946860205
SNP_P4_79888_10583091	NC_021165.1	Ca_kabuli_chr06	10583091	AA	TT	1946860207
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SNP_P4_79892_10584526	NC_021165.1	Ca_kabuli_chr06	10584526	TT	CC	1946860214
SNP_P4_79893_10584531	NC_021165.1	Ca_kabuli_chr06	10584531	AA	GG	1946860216
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SNP_P4_79895_10584597	NC_021165.1	Ca_kabuli_chr06	10584597	AA	GG	1946860220
SNP_P4_79896_10584605	NC_021165.1	Ca_kabuli_chr06	10584605	CC	TT	1946860222
SNP_P4_79897_10584624	NC_021165.1	Ca_kabuli_chr06	10584624	TT	CC	1946860224
SNP_P4_79898_10584643	NC_021165.1	Ca_kabuli_chr06	10584643	TT	CC	1946860226
SNP_P4_79899_10584651	NC_021165.1	Ca_kabuli_chr06	10584651	CC	TT	1946860228
SNP_P4_79900_10584827	NC_021165.1	Ca_kabuli_chr06	10584827	TT	CC	1946860230
SNP_P4_79901_10584864	NC_021165.1	Ca_kabuli_chr06	10584864	AA	GG	1946860232
SNP_P4_79902_10584868	NC_021165.1	Ca_kabuli_chr06	10584868	AA	GG	1946860234
SNP_P4_79903_10584874	NC_021165.1	Ca_kabuli_chr06	10584874	TT	AA	1946860236

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_79905_10584950	NC_021165.1	Ca_kabuli_chr06	10584950	TT	GG	1946860240
SNP_P4_79906_10585048	NC_021165.1	Ca_kabuli_chr06	10585048	AA	CC	1946860242
SNP_P4_79907_10585090	NC_021165.1	Ca_kabuli_chr06	10585090	TT	AA	1946860244
SNP_P4_79908_10585103	NC_021165.1	Ca_kabuli_chr06	10585103	GG	AA	1946860246
SNP_P4_79909_10585141	NC_021165.1	Ca_kabuli_chr06	10585141	GG	CC	1946860248
SNP_P4_79910_10585197	NC_021165.1	Ca_kabuli_chr06	10585197	CC	AA	1946860250
SNP_P4_79911_10585211	NC_021165.1	Ca_kabuli_chr06	10585211	CC	TT	1946860252
SNP_P4_79912_10585224	NC_021165.1	Ca_kabuli_chr06	10585224	CC	TT	1946860254
SNP_P4_79913_10585449	NC_021165.1	Ca_kabuli_chr06	10585449	CC	TT	1946860256
SNP_P4_79914_10585457	NC_021165.1	Ca_kabuli_chr06	10585457	GG	AA	1946860258
SNP_P4_79915_10585483	NC_021165.1	Ca_kabuli_chr06	10585483	GG	AA	1946860260
SNP_P4_79916_10585972	NC_021165.1	Ca_kabuli_chr06	10585972	CC	AA	1946860262
SNP_P4_79917_10585974	NC_021165.1	Ca_kabuli_chr06	10585974	AA	GG	1946860264
SNP_P4_79918_10585975	NC_021165.1	Ca_kabuli_chr06	10585975	GG	AA	1946860266
SNP_P4_79919_10586196	NC_021165.1	Ca_kabuli_chr06	10586196	GG	CC	1946860268
SNP_P4_79920_10586197	NC_021165.1	Ca_kabuli_chr06	10586197	GG	AA	1946860270
SNP_P4_79921_10586198	NC_021165.1	Ca_kabuli_chr06	10586198	CC	AA	1946860272
SNP_P4_79922_10586236	NC_021165.1	Ca_kabuli_chr06	10586236	AA	GG	1946860274
SNP_P4_79923_10586247	NC_021165.1	Ca_kabuli_chr06	10586247	AA	GG	1946860276
SNP_P4_79924_10586248	NC_021165.1	Ca_kabuli_chr06	10586248	GG	AA	1946860278
SNP_P4_79925_10586539	NC_021165.1	Ca_kabuli_chr06	10586539	CC	TT	1946860281
SNP_P4_79927_10586847	NC_021165.1	Ca_kabuli_chr06	10586847	AA	GG	1946860283
SNP_P4_79928_10586941	NC_021165.1	Ca_kabuli_chr06	10586941	GG	CC	1946860285
SNP_P4_79929_10587123	NC_021165.1	Ca_kabuli_chr06	10587123	CC	AA	1946860287
SNP_P4_79930_10587173	NC_021165.1	Ca_kabuli_chr06	10587173	CC	GG	1946860289
SNP_P4_79931_10589566	NC_021165.1	Ca_kabuli_chr06	10589566	AA	GG	1946860291
SNP_P4_79932_10590386	NC_021165.1	Ca_kabuli_chr06	10590386	TT	CC	1946860293
SNP_P4_79933_10591011	NC_021165.1	Ca_kabuli_chr06	10591011	TT	CC	1946860295
SNP_P4_79934_10591023	NC_021165.1	Ca_kabuli_chr06	10591023	AA	TT	1946860297
SNP_P4_79935_10592170	NC_021165.1	Ca_kabuli_chr06	10592170	AA	GG	1946860299
SNP_P4_79936_10592565	NC_021165.1	Ca_kabuli_chr06	10592565	TT	AA	1946860301
SNP_P4_79937_10592598	NC_021165.1	Ca_kabuli_chr06	10592598	TT	GG	1946860303
SNP_P4_79938_10592736	NC_021165.1	Ca_kabuli_chr06	10592736	CC	AA	1946860305
SNP_P4_79939_10592787	NC_021165.1	Ca_kabuli_chr06	10592787	TT	AA	1946860307
SNP_P4_79940_10592808	NC_021165.1	Ca_kabuli_chr06	10592808	GG	AA	1946860310
SNP_P4_79942_10594945	NC_021165.1	Ca_kabuli_chr06	10594945	AA	GG	1946860312
SNP_P4_79943_10594978	NC_021165.1	Ca_kabuli_chr06	10594978	TT	CC	1946860314
SNP_P4_79944_10594988	NC_021165.1	Ca_kabuli_chr06	10594988	TT	CC	1946860316
SNP_P4_79945_10595130	NC_021165.1	Ca_kabuli_chr06	10595130	GG	TT	1946860317
SNP_P4_79946_10595299	NC_021165.1	Ca_kabuli_chr06	10595299	AA	TT	1946860319
SNP_P4_79947_10595382	NC_021165.1	Ca_kabuli_chr06	10595382	TT	AA	1946860321

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_79949_10595426	NC_021165.1	Ca_kabuli_chr06	10595426	GG	AA	1946860325
SNP_P4_79950_10595447	NC_021165.1	Ca_kabuli_chr06	10595447	GG	AA	1946860327
SNP_P4_79951_10595448	NC_021165.1	Ca_kabuli_chr06	10595448	AA	GG	1946860329
SNP_P4_79952_10595944	NC_021165.1	Ca_kabuli_chr06	10595944	TT	AA	1946860331
SNP_P4_79953_10596404	NC_021165.1	Ca_kabuli_chr06	10596404	TT	GG	1946860333
SNP_P4_79954_10596405	NC_021165.1	Ca_kabuli_chr06	10596405	AA	TT	1946860335
SNP_P4_79955_10596416	NC_021165.1	Ca_kabuli_chr06	10596416	AA	GG	1946860337
SNP_P4_79956_10596445	NC_021165.1	Ca_kabuli_chr06	10596445	AA	GG	1946860339
SNP_P4_79957_10596487	NC_021165.1	Ca_kabuli_chr06	10596487	AA	GG	1946860341
SNP_P4_79958_10596522	NC_021165.1	Ca_kabuli_chr06	10596522	TT	CC	1946860343
SNP_P4_79959_10596564	NC_021165.1	Ca_kabuli_chr06	10596564	TT	CC	1946860345
SNP_P4_79961_10597024	NC_021165.1	Ca_kabuli_chr06	10597024	GG	AA	1946860347
SNP_P4_79962_10597035	NC_021165.1	Ca_kabuli_chr06	10597035	TT	GG	1946860349
SNP_P4_79963_10597135	NC_021165.1	Ca_kabuli_chr06	10597135	CC	TT	1946860351
SNP_P4_79964_10597510	NC_021165.1	Ca_kabuli_chr06	10597510	AA	TT	1946860353
SNP_P4_79965_10597564	NC_021165.1	Ca_kabuli_chr06	10597564	TT	CC	1946860355
SNP_P4_79966_10597633	NC_021165.1	Ca_kabuli_chr06	10597633	AA	CC	1946860357
SNP_P4_79967_10598912	NC_021165.1	Ca_kabuli_chr06	10598912	GG	CC	1946860359
SNP_P4_79968_10599554	NC_021165.1	Ca_kabuli_chr06	10599554	TT	CC	1946860361
SNP_P4_79969_10601148	NC_021165.1	Ca_kabuli_chr06	10601148	GG	AA	1946860363
SNP_P4_79970_10602722	NC_021165.1	Ca_kabuli_chr06	10602722	TT	CC	1946860365
SNP_P4_79971_10602771	NC_021165.1	Ca_kabuli_chr06	10602771	GG	AA	1946860367
SNP_P4_79972_10603025	NC_021165.1	Ca_kabuli_chr06	10603025	TT	CC	1946860369
SNP_P4_79973_10603284	NC_021165.1	Ca_kabuli_chr06	10603284	GG	AA	1946860371
SNP_P4_79974_10604330	NC_021165.1	Ca_kabuli_chr06	10604330	TT	CC	1946860373
SNP_P4_79975_10604669	NC_021165.1	Ca_kabuli_chr06	10604669	GG	CC	1946860374
SNP_P4_79977_10606263	NC_021165.1	Ca_kabuli_chr06	10606263	TT	GG	1946860376
SNP_P4_79978_10606668	NC_021165.1	Ca_kabuli_chr06	10606668	CC	TT	1946860378
SNP_P4_79979_10608291	NC_021165.1	Ca_kabuli_chr06	10608291	AA	CC	1946860380
SNP_P4_79980_10608301	NC_021165.1	Ca_kabuli_chr06	10608301	TT	CC	1946860382
SNP_P4_79982_10608322	NC_021165.1	Ca_kabuli_chr06	10608322	GG	AA	1946860384
SNP_P4_79984_10608640	NC_021165.1	Ca_kabuli_chr06	10608640	TT	CC	1946860386
SNP_P4_79985_10608850	NC_021165.1	Ca_kabuli_chr06	10608850	AA	GG	1946860388
SNP_P4_79987_10609211	NC_021165.1	Ca_kabuli_chr06	10609211	CC	TT	1946860390
SNP_P4_79988_10610841	NC_021165.1	Ca_kabuli_chr06	10610841	TT	GG	1946860392
SNP_P4_79990_10611378	NC_021165.1	Ca_kabuli_chr06	10611378	TT	CC	1946860394
SNP_P4_79992_10611747	NC_021165.1	Ca_kabuli_chr06	10611747	TT	CC	1946860396
SNP_P4_79993_10615530	NC_021165.1	Ca_kabuli_chr06	10615530	TT	AA	1946860398
SNP_P4_79994_10615862	NC_021165.1	Ca_kabuli_chr06	10615862	GG	AA	1946860400
SNP_P4_79997_10616560	NC_021165.1	Ca_kabuli_chr06	10616560	CC	TT	1946860402
SNP_P4_79998_10616787	NC_021165.1	Ca_kabuli_chr06	10616787	AA	GG	1946860404

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_80001_10617158	NC_021165.1	Ca_kabuli_chr06	10617158	AA	GG	1946860408
SNP_P4_80002_10617163	NC_021165.1	Ca_kabuli_chr06	10617163	AA	TT	1946860409
SNP_P4_80003_10617289	NC_021165.1	Ca_kabuli_chr06	10617289	AA	GG	1946860411
SNP_P4_80004_10617332	NC_021165.1	Ca_kabuli_chr06	10617332	TT	GG	1946860413
SNP_P4_80005_10618059	NC_021165.1	Ca_kabuli_chr06	10618059	GG	TT	1946860415
SNP_P4_80006_10618295	NC_021165.1	Ca_kabuli_chr06	10618295	GG	TT	1946860417
SNP_P4_80008_10618386	NC_021165.1	Ca_kabuli_chr06	10618386	TT	CC	1946860419
SNP_P4_80009_10618389	NC_021165.1	Ca_kabuli_chr06	10618389	GG	AA	1946860421
SNP_P4_80010_10618423	NC_021165.1	Ca_kabuli_chr06	10618423	AA	GG	1946860423
SNP_P4_80011_10618619	NC_021165.1	Ca_kabuli_chr06	10618619	GG	AA	1946860425
SNP_P4_80013_10618965	NC_021165.1	Ca_kabuli_chr06	10618965	GG	TT	1946860427
SNP_P4_80014_10618975	NC_021165.1	Ca_kabuli_chr06	10618975	CC	AA	1946860429
SNP_P4_80015_10619143	NC_021165.1	Ca_kabuli_chr06	10619143	TT	AA	1946860431
SNP_P4_80016_10619294	NC_021165.1	Ca_kabuli_chr06	10619294	CC	TT	1946860433
SNP_P4_80018_10621834	NC_021165.1	Ca_kabuli_chr06	10621834	AA	GG	1946860435
SNP_P4_80019_10621844	NC_021165.1	Ca_kabuli_chr06	10621844	AA	GG	1946860437
SNP_P4_80020_10621911	NC_021165.1	Ca_kabuli_chr06	10621911	CC	TT	1946860439
SNP_P4_80021_10621995	NC_021165.1	Ca_kabuli_chr06	10621995	CC	TT	1946860441
SNP_P4_80023_10622275	NC_021165.1	Ca_kabuli_chr06	10622275	AA	GG	1946860443
SNP_P4_80024_10622297	NC_021165.1	Ca_kabuli_chr06	10622297	AA	GG	1946860445
SNP_P4_80025_10622538	NC_021165.1	Ca_kabuli_chr06	10622538	TT	CC	1946860447
SNP_P4_80026_10622575	NC_021165.1	Ca_kabuli_chr06	10622575	TT	CC	1946860449
SNP_P4_80028_10622750	NC_021165.1	Ca_kabuli_chr06	10622750	AA	TT	1946860451
SNP_P4_80029_10622973	NC_021165.1	Ca_kabuli_chr06	10622973	GG	TT	1946860453
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SNP_P4_80032_10623557	NC_021165.1	Ca_kabuli_chr06	10623557	TT	CC	1946860457
SNP_P4_80033_10623748	NC_021165.1	Ca_kabuli_chr06	10623748	AA	GG	1946860459
SNP_P4_80034_10623801	NC_021165.1	Ca_kabuli_chr06	10623801	GG	AA	1946860461
SNP_P4_80035_10623939	NC_021165.1	Ca_kabuli_chr06	10623939	GG	AA	1946860463
SNP_P4_80036_10623962	NC_021165.1	Ca_kabuli_chr06	10623962	GG	AA	1946860465
SNP_P4_80038_10624019	NC_021165.1	Ca_kabuli_chr06	10624019	AA	GG	1946860467
SNP_P4_80039_10624254	NC_021165.1	Ca_kabuli_chr06	10624254	TT	AA	1946860469
SNP_P4_80041_10625671	NC_021165.1	Ca_kabuli_chr06	10625671	GG	AA	1946860471
SNP_P4_80043_10628096	NC_021165.1	Ca_kabuli_chr06	10628096	AA	GG	1946860473
SNP_P4_80044_10630434	NC_021165.1	Ca_kabuli_chr06	10630434	GG	TT	1946860475
SNP_P4_80045_10631338	NC_021165.1	Ca_kabuli_chr06	10631338	AA	TT	1946860477
SNP_P4_80046_10631344	NC_021165.1	Ca_kabuli_chr06	10631344	TT	CC	1946860479
SNP_P4_80049_10643345	NC_021165.1	Ca_kabuli_chr06	10643345	AA	GG	1946860481
SNP_P4_80050_10643713	NC_021165.1	Ca_kabuli_chr06	10643713	CC	TT	1946860483
SNP_P4_80051_10644039	NC_021165.1	Ca_kabuli_chr06	10644039	TT	CC	1946860485
SNP_P4_80052_10644042	NC_021165.1	Ca_kabuli_chr06	10644042	GG	CC	1946860487

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_80055_10645894	NC_021165.1	Ca_kabuli_chr06	10645894	TT	AA	1946860492
SNP_P4_80056_10645901	NC_021165.1	Ca_kabuli_chr06	10645901	GG	AA	1946860494
SNP_P4_80057_10645902	NC_021165.1	Ca_kabuli_chr06	10645902	CC	TT	1946860496
SNP_P4_80058_10646168	NC_021165.1	Ca_kabuli_chr06	10646168	GG	TT	1946860498
SNP_P4_80059_10646184	NC_021165.1	Ca_kabuli_chr06	10646184	GG	AA	1946860500
SNP_P4_80060_10646198	NC_021165.1	Ca_kabuli_chr06	10646198	GG	CC	1946860501
SNP_P4_80061_10646547	NC_021165.1	Ca_kabuli_chr06	10646547	CC	AA	1946860503
SNP_P4_80062_10647797	NC_021165.1	Ca_kabuli_chr06	10647797	CC	TT	1946860505
SNP_P4_80063_10647841	NC_021165.1	Ca_kabuli_chr06	10647841	CC	TT	1946860507
SNP_P4_80064_10647882	NC_021165.1	Ca_kabuli_chr06	10647882	TT	AA	1946860509
SNP_P4_80065_10648544	NC_021165.1	Ca_kabuli_chr06	10648544	AA	GG	1946860511
SNP_P4_80066_10649704	NC_021165.1	Ca_kabuli_chr06	10649704	CC	GG	1946860513
SNP_P4_80067_10649729	NC_021165.1	Ca_kabuli_chr06	10649729	TT	CC	1946860515
SNP_P4_80068_10649731	NC_021165.1	Ca_kabuli_chr06	10649731	AA	GG	1946860517
SNP_P4_80070_10649881	NC_021165.1	Ca_kabuli_chr06	10649881	CC	TT	1946860519
SNP_P4_80071_10649883	NC_021165.1	Ca_kabuli_chr06	10649883	CC	GG	1946860521
SNP_P4_80073_10650731	NC_021165.1	Ca_kabuli_chr06	10650731	GG	AA	1946860523
SNP_P4_80074_10650864	NC_021165.1	Ca_kabuli_chr06	10650864	GG	TT	1946860525
SNP_P4_80075_10651386	NC_021165.1	Ca_kabuli_chr06	10651386	GG	AA	1946860527
SNP_P4_80077_10653254	NC_021165.1	Ca_kabuli_chr06	10653254	AA	TT	1946860529
SNP_P4_80078_10654374	NC_021165.1	Ca_kabuli_chr06	10654374	GG	AA	1946860530
SNP_P4_80079_10654443	NC_021165.1	Ca_kabuli_chr06	10654443	GG	CC	1946860532
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SNP_P4_80081_10657055	NC_021165.1	Ca_kabuli_chr06	10657055	AA	GG	1946860536
SNP_P4_80082_10657335	NC_021165.1	Ca_kabuli_chr06	10657335	GG	TT	1946860538
SNP_P4_80083_10657650	NC_021165.1	Ca_kabuli_chr06	10657650	TT	CC	1946860540
SNP_P4_80084_10657683	NC_021165.1	Ca_kabuli_chr06	10657683	GG	AA	1946860542
SNP_P4_80085_10658053	NC_021165.1	Ca_kabuli_chr06	10658053	TT	AA	1946860544
SNP_P4_80088_10661011	NC_021165.1	Ca_kabuli_chr06	10661011	AA	TT	1946860546
SNP_P4_80089_10661057	NC_021165.1	Ca_kabuli_chr06	10661057	GG	AA	1946860548
SNP_P4_80090_10661070	NC_021165.1	Ca_kabuli_chr06	10661070	TT	CC	1946860550
SNP_P4_80092_10662015	NC_021165.1	Ca_kabuli_chr06	10662015	GG	TT	1946860551
SNP_P4_80093_10662221	NC_021165.1	Ca_kabuli_chr06	10662221	TT	CC	1946860553
SNP_P4_80094_10662231	NC_021165.1	Ca_kabuli_chr06	10662231	CC	TT	1946860555
SNP_P4_80095_10662251	NC_021165.1	Ca_kabuli_chr06	10662251	TT	AA	1946860557
SNP_P4_80096_10662668	NC_021165.1	Ca_kabuli_chr06	10662668	TT	CC	1946860559
SNP_P4_80097_10663249	NC_021165.1	Ca_kabuli_chr06	10663249	CC	AA	1946860561
SNP_P4_80098_10664207	NC_021165.1	Ca_kabuli_chr06	10664207	CC	TT	1946860563
SNP_P4_80099_10664219	NC_021165.1	Ca_kabuli_chr06	10664219	CC	GG	1946860565
SNP_P4_80100_10664237	NC_021165.1	Ca_kabuli_chr06	10664237	GG	AA	1946860567

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_80104_10664554	NC_021165.1	Ca_kabuli_chr06	10664554	GG	TT	1946860571
SNP_P4_80105_10664585	NC_021165.1	Ca_kabuli_chr06	10664585	CC	AA	1946860572
SNP_P4_80107_10664771	NC_021165.1	Ca_kabuli_chr06	10664771	CC	TT	1946860574
SNP_P4_80108_10664850	NC_021165.1	Ca_kabuli_chr06	10664850	TT	CC	1946860576
SNP_P4_80109_10665142	NC_021165.1	Ca_kabuli_chr06	10665142	TT	AA	1946860578
SNP_P4_80110_10665143	NC_021165.1	Ca_kabuli_chr06	10665143	AA	GG	1946860580
SNP_P4_80111_10665368	NC_021165.1	Ca_kabuli_chr06	10665368	AA	CC	1946860582
SNP_P4_80112_10665460	NC_021165.1	Ca_kabuli_chr06	10665460	TT	CC	1946860584
SNP_P4_80113_10665465	NC_021165.1	Ca_kabuli_chr06	10665465	GG	AA	1946860586
SNP_P4_80114_10665716	NC_021165.1	Ca_kabuli_chr06	10665716	GG	AA	1946860587
SNP_P4_80115_10666029	NC_021165.1	Ca_kabuli_chr06	10666029	AA	GG	1946860589
SNP_P4_80116_10666049	NC_021165.1	Ca_kabuli_chr06	10666049	CC	TT	1946860591
SNP_P4_80117_10668013	NC_021165.1	Ca_kabuli_chr06	10668013	TT	GG	1946860593
SNP_P4_80118_10670368	NC_021165.1	Ca_kabuli_chr06	10670368	AA	GG	1946860595
SNP_P4_80119_10670773	NC_021165.1	Ca_kabuli_chr06	10670773	CC	AA	1946860597
SNP_P4_80121_10671394	NC_021165.1	Ca_kabuli_chr06	10671394	TT	CC	1946860599
SNP_P4_80122_10671444	NC_021165.1	Ca_kabuli_chr06	10671444	CC	AA	1946860601
SNP_P4_80123_10673251	NC_021165.1	Ca_kabuli_chr06	10673251	CC	TT	1946860603
SNP_P4_80125_10675985	NC_021165.1	Ca_kabuli_chr06	10675985	CC	GG	1946860605
SNP_P4_80126_10676005	NC_021165.1	Ca_kabuli_chr06	10676005	AA	CC	1946860607
SNP_P4_80127_10676293	NC_021165.1	Ca_kabuli_chr06	10676293	GG	AA	1946860608
SNP_P4_80128_10676434	NC_021165.1	Ca_kabuli_chr06	10676434	GG	AA	1946860610
SNP_P4_80129_10677230	NC_021165.1	Ca_kabuli_chr06	10677230	CC	AA	1946860612
SNP_P4_80130_10677303	NC_021165.1	Ca_kabuli_chr06	10677303	GG	TT	1946860614
SNP_P4_80131_10678337	NC_021165.1	Ca_kabuli_chr06	10678337	CC	TT	1946860616
SNP_P4_80132_10679443	NC_021165.1	Ca_kabuli_chr06	10679443	AA	GG	1946860618
SNP_P4_80133_10680840	NC_021165.1	Ca_kabuli_chr06	10680840	AA	GG	1946860620
SNP_P4_80134_10680994	NC_021165.1	Ca_kabuli_chr06	10680994	AA	GG	1946860622
SNP_P4_80135_10681055	NC_021165.1	Ca_kabuli_chr06	10681055	TT	CC	1946860623
SNP_P4_80136_10681057	NC_021165.1	Ca_kabuli_chr06	10681057	AA	CC	1946860625
SNP_P4_80137_10683328	NC_021165.1	Ca_kabuli_chr06	10683328	CC	TT	1946860627
SNP_P4_80138_10683331	NC_021165.1	Ca_kabuli_chr06	10683331	GG	AA	1946860629
SNP_P4_80139_10683620	NC_021165.1	Ca_kabuli_chr06	10683620	GG	AA	1946860631
SNP_P4_80140_10683680	NC_021165.1	Ca_kabuli_chr06	10683680	TT	CC	1946860633
SNP_P4_80141_10683874	NC_021165.1	Ca_kabuli_chr06	10683874	GG	AA	1946860635
SNP_P4_80142_10684551	NC_021165.1	Ca_kabuli_chr06	10684551	GG	AA	1946860637
SNP_P4_80143_10685094	NC_021165.1	Ca_kabuli_chr06	10685094	GG	AA	1946860639
SNP_P4_80144_10688982	NC_021165.1	Ca_kabuli_chr06	10688982	CC	TT	1946860640
SNP_P4_80145_10689030	NC_021165.1	Ca_kabuli_chr06	10689030	AA	GG	1946860642
SNP_P4_80147_10689212	NC_021165.1	Ca_kabuli_chr06	10689212	AA	CC	1946860644
SNP_P4_80148_10689297	NC_021165.1	Ca_kabuli_chr06	10689297	CC	AA	1946860646

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_80149_10689341	NC_021165.1	Ca_kabuli_chr06	10689341	AA	CC	1946860648
SNP_P4_80150_10689703	NC_021165.1	Ca_kabuli_chr06	10689703	AA	GG	1946860650
SNP_P4_80151_10690622	NC_021165.1	Ca_kabuli_chr06	10690622	CC	TT	1946860652
SNP_P4_80152_10690853	NC_021165.1	Ca_kabuli_chr06	10690853	AA	GG	1946860654
SNP_P4_80153_10690857	NC_021165.1	Ca_kabuli_chr06	10690857	AA	TT	1946860656
SNP_P4_80154_10692958	NC_021165.1	Ca_kabuli_chr06	10692958	CC	TT	1946860658
SNP_P4_80155_10693273	NC_021165.1	Ca_kabuli_chr06	10693273	AA	TT	1946860660
SNP_P4_80156_10693906	NC_021165.1	Ca_kabuli_chr06	10693906	TT	GG	1946860662
SNP_P4_80157_10694197	NC_021165.1	Ca_kabuli_chr06	10694197	AA	TT	1946860664
SNP_P4_80159_10697640	NC_021165.1	Ca_kabuli_chr06	10697640	CC	TT	1946860666
SNP_P4_80160_10697755	NC_021165.1	Ca_kabuli_chr06	10697755	AA	TT	1946860668
SNP_P4_80161_10697796	NC_021165.1	Ca_kabuli_chr06	10697796	CC	GG	1946860670
SNP_P4_80162_10698102	NC_021165.1	Ca_kabuli_chr06	10698102	GG	AA	1946860672
SNP_P4_80163_10700535	NC_021165.1	Ca_kabuli_chr06	10700535	CC	AA	1946860674
SNP_P4_80164_10700610	NC_021165.1	Ca_kabuli_chr06	10700610	TT	AA	1946860676
SNP_P4_80166_10700737	NC_021165.1	Ca_kabuli_chr06	10700737	AA	CC	1946860678
SNP_P4_80167_10700978	NC_021165.1	Ca_kabuli_chr06	10700978	CC	AA	1946860680
SNP_P4_80168_10701054	NC_021165.1	Ca_kabuli_chr06	10701054	TT	CC	1946860682
SNP_P4_80169_10701086	NC_021165.1	Ca_kabuli_chr06	10701086	TT	CC	1946860684
SNP_P4_80170_10701194	NC_021165.1	Ca_kabuli_chr06	10701194	GG	AA	1946860686
SNP_P4_80171_10701353	NC_021165.1	Ca_kabuli_chr06	10701353	TT	CC	1946860688
SNP_P4_80173_10701513	NC_021165.1	Ca_kabuli_chr06	10701513	TT	AA	1946860690
SNP_P4_80174_10701515	NC_021165.1	Ca_kabuli_chr06	10701515	GG	AA	1946860692
SNP_P4_80175_10702103	NC_021165.1	Ca_kabuli_chr06	10702103	TT	AA	1946860694
SNP_P4_80176_10702109	NC_021165.1	Ca_kabuli_chr06	10702109	GG	AA	1946860696
SNP_P4_80178_10702368	NC_021165.1	Ca_kabuli_chr06	10702368	GG	AA	1946860698
SNP_P4_80179_10702442	NC_021165.1	Ca_kabuli_chr06	10702442	GG	AA	1946860700
SNP_P4_80180_10702444	NC_021165.1	Ca_kabuli_chr06	10702444	AA	TT	1946860702
SNP_P4_80181_10702446	NC_021165.1	Ca_kabuli_chr06	10702446	CC	TT	1946860704
SNP_P4_80182_10705138	NC_021165.1	Ca_kabuli_chr06	10705138	TT	CC	1946860706
SNP_P4_80183_10705315	NC_021165.1	Ca_kabuli_chr06	10705315	AA	CC	1946860708
SNP_P4_80184_10705893	NC_021165.1	Ca_kabuli_chr06	10705893	AA	TT	1946860710
SNP_P4_80185_10705923	NC_021165.1	Ca_kabuli_chr06	10705923	GG	CC	1946860712
SNP_P4_80186_10706067	NC_021165.1	Ca_kabuli_chr06	10706067	AA	TT	1946860714
SNP_P4_80187_10706816	NC_021165.1	Ca_kabuli_chr06	10706816	TT	CC	1946860716
SNP_P4_80188_10707209	NC_021165.1	Ca_kabuli_chr06	10707209	AA	GG	1946860718
SNP_P4_80189_10707520	NC_021165.1	Ca_kabuli_chr06	10707520	TT	CC	1946860720
SNP_P4_80190_10707534	NC_021165.1	Ca_kabuli_chr06	10707534	CC	TT	1946860722
SNP_P4_80191_10707948	NC_021165.1	Ca_kabuli_chr06	10707948	TT	AA	1946860724
SNP_P4_80193_10708152	NC_021165.1	Ca_kabuli_chr06	10708152	GG	TT	1946860726
SNP_P4_80195_10708635	NC_021165.1	Ca_kabuli_chr06	10708635	GG	AA	1946860728
SNP_P4_80197_10708877	NC_021165.1	Ca_kabuli_chr06	10708877	TT	CC	1946860730

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_80199_10709226	NC_021165.1	Ca_kabuli_chr06	10709226	AA	TT	1946860734
SNP_P4_80200_10709262	NC_021165.1	Ca_kabuli_chr06	10709262	AA	TT	1946860736
SNP_P4_80201_10724098	NC_021165.1	Ca_kabuli_chr06	10724098	GG	CC	1946860738
SNP_P4_80202_10729166	NC_021165.1	Ca_kabuli_chr06	10729166	AA	GG	1946860740
SNP_P4_80203_10729170	NC_021165.1	Ca_kabuli_chr06	10729170	TT	CC	1946860742
SNP_P4_80204_10748859	NC_021165.1	Ca_kabuli_chr06	10748859	AA	GG	1946860744
SNP_P4_80205_10749027	NC_021165.1	Ca_kabuli_chr06	10749027	GG	CC	1946860746
SNP_P4_80206_10750843	NC_021165.1	Ca_kabuli_chr06	10750843	GG	AA	1946860748
SNP_P4_80207_10751176	NC_021165.1	Ca_kabuli_chr06	10751176	TT	AA	1946860750
SNP_P4_80208_10751209	NC_021165.1	Ca_kabuli_chr06	10751209	AA	TT	1946860752
SNP_P4_80209_10753535	NC_021165.1	Ca_kabuli_chr06	10753535	AA	GG	1946860754
SNP_P4_80210_10792165	NC_021165.1	Ca_kabuli_chr06	10792165	GG	AA	1946860756
SNP_P4_80212_10815763	NC_021165.1	Ca_kabuli_chr06	10815763	CC	TT	1946860758
SNP_P4_80213_10818657	NC_021165.1	Ca_kabuli_chr06	10818657	AA	GG	1946860760
SNP_P4_80214_10821971	NC_021165.1	Ca_kabuli_chr06	10821971	CC	TT	1946860762
SNP_P4_80215_10822140	NC_021165.1	Ca_kabuli_chr06	10822140	AA	GG	1946860764
SNP_P4_80216_10822229	NC_021165.1	Ca_kabuli_chr06	10822229	AA	CC	1946860766
SNP_P4_80217_10822320	NC_021165.1	Ca_kabuli_chr06	10822320	AA	CC	1946860768
SNP_P4_80218_10822423	NC_021165.1	Ca_kabuli_chr06	10822423	AA	CC	1946860770
SNP_P4_80219_10825376	NC_021165.1	Ca_kabuli_chr06	10825376	CC	TT	1946860772
SNP_P4_80220_10828909	NC_021165.1	Ca_kabuli_chr06	10828909	GG	CC	1946860774
SNP_P4_80221_10841532	NC_021165.1	Ca_kabuli_chr06	10841532	CC	TT	1946860776
SNP_P4_80223_10875505	NC_021165.1	Ca_kabuli_chr06	10875505	GG	TT	1946860778
SNP_P4_80224_10894363	NC_021165.1	Ca_kabuli_chr06	10894363	GG	AA	1946860779
SNP_P4_80225_10930098	NC_021165.1	Ca_kabuli_chr06	10930098	GG	CC	1946860781
SNP_P4_80226_10930188	NC_021165.1	Ca_kabuli_chr06	10930188	GG	AA	1946860783
SNP_P4_80227_10930332	NC_021165.1	Ca_kabuli_chr06	10930332	CC	TT	1946860785
SNP_P4_80228_10948462	NC_021165.1	Ca_kabuli_chr06	10948462	CC	TT	1946860787
SNP_P4_80229_10948623	NC_021165.1	Ca_kabuli_chr06	10948623	TT	AA	1946860789
SNP_P4_80230_10948630	NC_021165.1	Ca_kabuli_chr06	10948630	AA	CC	1946860791
SNP_P4_80231_10948637	NC_021165.1	Ca_kabuli_chr06	10948637	GG	TT	1946860793
SNP_P4_80232_10948679	NC_021165.1	Ca_kabuli_chr06	10948679	AA	GG	1946860795
SNP_P4_80233_10948700	NC_021165.1	Ca_kabuli_chr06	10948700	GG	CC	1946860797
SNP_P4_80234_10948719	NC_021165.1	Ca_kabuli_chr06	10948719	TT	CC	1946860799
SNP_P4_80236_10953638	NC_021165.1	Ca_kabuli_chr06	10953638	AA	GG	1946860800
SNP_P4_80237_10953640	NC_021165.1	Ca_kabuli_chr06	10953640	AA	TT	1946860802
SNP_P4_80238_10957017	NC_021165.1	Ca_kabuli_chr06	10957017	AA	GG	1946860804
SNP_P4_80239_10965323	NC_021165.1	Ca_kabuli_chr06	10965323	AA	TT	1946860806
SNP_P4_80241_10993774	NC_021165.1	Ca_kabuli_chr06	10993774	AA	GG	1946860808
SNP_P4_80242_10997457	NC_021165.1	Ca_kabuli_chr06	10997457	AA	GG	1946860810
SNP_P4_80243_10998841	NC_021165.1	Ca_kabuli_chr06	10998841	TT	AA	1946860812

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_80245_10998894	NC_021165.1	Ca_kabuli_chr06	10998894	TT	AA	1946860816
SNP_P4_80246_11029574	NC_021165.1	Ca_kabuli_chr06	11029574	CC	TT	1946860818
SNP_P4_80247_11031549	NC_021165.1	Ca_kabuli_chr06	11031549	GG	AA	1946860820
SNP_P4_80250_11039586	NC_021165.1	Ca_kabuli_chr06	11039586	TT	AA	1946860822
SNP_P4_80251_11063990	NC_021165.1	Ca_kabuli_chr06	11063990	TT	CC	1946860824
SNP_P4_80252_11067513	NC_021165.1	Ca_kabuli_chr06	11067513	GG	CC	1946860826
SNP_P4_80253_11072244	NC_021165.1	Ca_kabuli_chr06	11072244	GG	AA	1946860828
SNP_P4_80254_11077586	NC_021165.1	Ca_kabuli_chr06	11077586	CC	TT	1946860829
SNP_P4_80255_11079439	NC_021165.1	Ca_kabuli_chr06	11079439	TT	AA	1946860830
SNP_P4_80256_11084696	NC_021165.1	Ca_kabuli_chr06	11084696	GG	AA	1946860831
SNP_P4_80258_11085182	NC_021165.1	Ca_kabuli_chr06	11085182	AA	GG	1946860832
SNP_P4_80259_11109883	NC_021165.1	Ca_kabuli_chr06	11109883	TT	CC	1946860833
SNP_P4_80260_11134846	NC_021165.1	Ca_kabuli_chr06	11134846	CC	TT	1946860834
SNP_P4_80261_11140599	NC_021165.1	Ca_kabuli_chr06	11140599	GG	AA	1946860835
SNP_P4_80262_11151787	NC_021165.1	Ca_kabuli_chr06	11151787	AA	GG	1946860837
SNP_P4_80263_11163190	NC_021165.1	Ca_kabuli_chr06	11163190	AA	CC	1946860839
SNP_P4_80264_11221346	NC_021165.1	Ca_kabuli_chr06	11221346	GG	CC	1946860841
SNP_P4_80265_11232276	NC_021165.1	Ca_kabuli_chr06	11232276	CC	TT	1946860843
SNP_P4_80266_11248001	NC_021165.1	Ca_kabuli_chr06	11248001	AA	CC	1946860845
SNP_P4_80267_11258908	NC_021165.1	Ca_kabuli_chr06	11258908	AA	GG	1946860846
SNP_P4_80268_11277565	NC_021165.1	Ca_kabuli_chr06	11277565	GG	AA	1946860848
SNP_P4_80269_11278756	NC_021165.1	Ca_kabuli_chr06	11278756	AA	CC	1946860850
SNP_P4_80270_11278760	NC_021165.1	Ca_kabuli_chr06	11278760	TT	GG	1946860852
SNP_P4_80271_11308949	NC_021165.1	Ca_kabuli_chr06	11308949	AA	CC	1946860854
SNP_P4_80272_11309088	NC_021165.1	Ca_kabuli_chr06	11309088	CC	AA	1946860856
SNP_P4_80273_11309337	NC_021165.1	Ca_kabuli_chr06	11309337	GG	AA	1946860858
SNP_P4_80274_11309346	NC_021165.1	Ca_kabuli_chr06	11309346	AA	TT	1946860860
SNP_P4_80275_11309486	NC_021165.1	Ca_kabuli_chr06	11309486	GG	AA	1946860862
SNP_P4_80276_11309834	NC_021165.1	Ca_kabuli_chr06	11309834	GG	TT	1946860864
SNP_P4_80278_11310351	NC_021165.1	Ca_kabuli_chr06	11310351	AA	GG	1946860866
SNP_P4_80279_11310383	NC_021165.1	Ca_kabuli_chr06	11310383	CC	AA	1946860868
SNP_P4_80280_11310559	NC_021165.1	Ca_kabuli_chr06	11310559	AA	GG	1946860870
SNP_P4_80281_11310568	NC_021165.1	Ca_kabuli_chr06	11310568	GG	AA	1946860872
SNP_P4_80282_11310610	NC_021165.1	Ca_kabuli_chr06	11310610	TT	GG	1946860874
SNP_P4_80283_11310654	NC_021165.1	Ca_kabuli_chr06	11310654	CC	GG	1946860876
SNP_P4_80284_11310678	NC_021165.1	Ca_kabuli_chr06	11310678	TT	CC	1946860878
SNP_P4_80285_11310736	NC_021165.1	Ca_kabuli_chr06	11310736	AA	GG	1946860880
SNP_P4_80286_11310754	NC_021165.1	Ca_kabuli_chr06	11310754	AA	TT	1946860882
SNP_P4_80287_11310788	NC_021165.1	Ca_kabuli_chr06	11310788	TT	CC	1946860884
SNP_P4_80289_11311012	NC_021165.1	Ca_kabuli_chr06	11311012	CC	TT	1946860886
SNP_P4_80290_11311101	NC_021165.1	Ca_kabuli_chr06	11311101	TT	GG	1946860888

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_80291_11311154	NC_021165.1	Ca_kabuli_chr06	11311154	GG	AA	1946860890
SNP_P4_80292_11311238	NC_021165.1	Ca_kabuli_chr06	11311238	CC	TT	1946860892
SNP_P4_80293_11311261	NC_021165.1	Ca_kabuli_chr06	11311261	CC	TT	1946860894
SNP_P4_80294_11311281	NC_021165.1	Ca_kabuli_chr06	11311281	TT	AA	1946860896
SNP_P4_80295_11311282	NC_021165.1	Ca_kabuli_chr06	11311282	CC	AA	1946860898
SNP_P4_80296_11311283	NC_021165.1	Ca_kabuli_chr06	11311283	AA	TT	1946860900
SNP_P4_80297_11311304	NC_021165.1	Ca_kabuli_chr06	11311304	TT	CC	1946860902
SNP_P4_80298_11311425	NC_021165.1	Ca_kabuli_chr06	11311425	TT	AA	1946860904
SNP_P4_80299_11313985	NC_021165.1	Ca_kabuli_chr06	11313985	AA	GG	1946860906
SNP_P4_80300_11314221	NC_021165.1	Ca_kabuli_chr06	11314221	CC	AA	1946860908
SNP_P4_80301_11314266	NC_021165.1	Ca_kabuli_chr06	11314266	TT	CC	1946860910
SNP_P4_80302_11314339	NC_021165.1	Ca_kabuli_chr06	11314339	CC	GG	1946860912
SNP_P4_80303_11314398	NC_021165.1	Ca_kabuli_chr06	11314398	CC	AA	1946860914
SNP_P4_80304_11315482	NC_021165.1	Ca_kabuli_chr06	11315482	TT	CC	1946860916
SNP_P4_80305_11315500	NC_021165.1	Ca_kabuli_chr06	11315500	GG	CC	1946860918
SNP_P4_80306_11315516	NC_021165.1	Ca_kabuli_chr06	11315516	GG	TT	1946860920
SNP_P4_80307_11315521	NC_021165.1	Ca_kabuli_chr06	11315521	AA	TT	1946860922
SNP_P4_80308_11315522	NC_021165.1	Ca_kabuli_chr06	11315522	AA	GG	1946860924
SNP_P4_80309_11315524	NC_021165.1	Ca_kabuli_chr06	11315524	GG	CC	1946860926
SNP_P4_80310_11315851	NC_021165.1	Ca_kabuli_chr06	11315851	TT	CC	1946860928
SNP_P4_80311_11315871	NC_021165.1	Ca_kabuli_chr06	11315871	AA	GG	1946860930
SNP_P4_80312_11315966	NC_021165.1	Ca_kabuli_chr06	11315966	AA	TT	1946860932
SNP_P4_80314_11316131	NC_021165.1	Ca_kabuli_chr06	11316131	TT	CC	1946860934
SNP_P4_80315_11316303	NC_021165.1	Ca_kabuli_chr06	11316303	GG	TT	1946860936
SNP_P4_80316_11316358	NC_021165.1	Ca_kabuli_chr06	11316358	AA	TT	1946860938
SNP_P4_80317_11316359	NC_021165.1	Ca_kabuli_chr06	11316359	TT	AA	1946860940
SNP_P4_80318_11359541	NC_021165.1	Ca_kabuli_chr06	11359541	AA	GG	1946860943
SNP_P4_80319_11360386	NC_021165.1	Ca_kabuli_chr06	11360386	GG	AA	1946860945
SNP_P4_80321_11363508	NC_021165.1	Ca_kabuli_chr06	11363508	TT	CC	1946860947
SNP_P4_80322_11383638	NC_021165.1	Ca_kabuli_chr06	11383638	TT	CC	1946860949
SNP_P4_80323_11390881	NC_021165.1	Ca_kabuli_chr06	11390881	AA	GG	1946860951
SNP_P4_80325_11402701	NC_021165.1	Ca_kabuli_chr06	11402701	AA	TT	1946860953
SNP_P4_80326_11417198	NC_021165.1	Ca_kabuli_chr06	11417198	AA	GG	1946860955
SNP_P4_80327_11420155	NC_021165.1	Ca_kabuli_chr06	11420155	TT	AA	1946860957
SNP_P4_80329_11427657	NC_021165.1	Ca_kabuli_chr06	11427657	TT	CC	1946860959
SNP_P4_80330_11451980	NC_021165.1	Ca_kabuli_chr06	11451980	AA	TT	1946860961
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SNP_P4_80332_11457377	NC_021165.1	Ca_kabuli_chr06	11457377	TT	AA	1946860965
SNP_P4_80335_11457521	NC_021165.1	Ca_kabuli_chr06	11457521	TT	CC	1946860967
SNP_P4_80336_11457525	NC_021165.1	Ca_kabuli_chr06	11457525	GG	AA	1946860969
SNP_P4_80337_11482767	NC_021165.1	Ca_kabuli_chr06	11482767	GG	AA	1946860971
SNP_P4_80338_11490698	NC_021165.1	Ca_kabuli_chr06	11490698	TT	AA	1946860973

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_80341_11494838	NC_021165.1	Ca_kabuli_chr06	11494838	TT	CC	1946860978
SNP_P4_80344_11513694	NC_021165.1	Ca_kabuli_chr06	11513694	GG	CC	1946860980
SNP_P4_80345_11517650	NC_021165.1	Ca_kabuli_chr06	11517650	CC	TT	1946860982
SNP_P4_80346_11523127	NC_021165.1	Ca_kabuli_chr06	11523127	TT	GG	1946860985
SNP_P4_80347_11538019	NC_021165.1	Ca_kabuli_chr06	11538019	GG	AA	1946860987
SNP_P4_80348_11545886	NC_021165.1	Ca_kabuli_chr06	11545886	TT	CC	1946860989
SNP_P4_80349_11545948	NC_021165.1	Ca_kabuli_chr06	11545948	GG	AA	1946860991
SNP_P4_80351_11546167	NC_021165.1	Ca_kabuli_chr06	11546167	GG	CC	1946860993
SNP_P4_80352_11546178	NC_021165.1	Ca_kabuli_chr06	11546178	GG	AA	1946860995
SNP_P4_80353_11546338	NC_021165.1	Ca_kabuli_chr06	11546338	AA	CC	1946860997
SNP_P4_80355_11546553	NC_021165.1	Ca_kabuli_chr06	11546553	AA	GG	1946860999
SNP_P4_80356_11546598	NC_021165.1	Ca_kabuli_chr06	11546598	AA	TT	1946861001
SNP_P4_80357_11546645	NC_021165.1	Ca_kabuli_chr06	11546645	CC	GG	1946861003
SNP_P4_80358_11546660	NC_021165.1	Ca_kabuli_chr06	11546660	CC	AA	1946861005
SNP_P4_80359_11546696	NC_021165.1	Ca_kabuli_chr06	11546696	AA	TT	1946861007
SNP_P4_80360_11562385	NC_021165.1	Ca_kabuli_chr06	11562385	CC	TT	1946861009
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SNP_P4_80370_11569260	NC_021165.1	Ca_kabuli_chr06	11569260	TT	CC	1946861019
SNP_P4_80371_11574157	NC_021165.1	Ca_kabuli_chr06	11574157	TT	AA	1946861021
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SNP_P4_80373_11578527	NC_021165.1	Ca_kabuli_chr06	11578527	TT	CC	1946861025
SNP_P4_80374_11590041	NC_021165.1	Ca_kabuli_chr06	11590041	AA	GG	1946861027
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SNP_P4_80376_11590458	NC_021165.1	Ca_kabuli_chr06	11590458	CC	AA	1946861031
SNP_P4_80377_11590539	NC_021165.1	Ca_kabuli_chr06	11590539	CC	TT	1946861033
SNP_P4_80378_11590674	NC_021165.1	Ca_kabuli_chr06	11590674	AA	GG	1946861035
SNP_P4_80379_11590843	NC_021165.1	Ca_kabuli_chr06	11590843	AA	TT	1946861037
SNP_P4_80380_11590972	NC_021165.1	Ca_kabuli_chr06	11590972	CC	TT	1946861039
SNP_P4_80382_11591135	NC_021165.1	Ca_kabuli_chr06	11591135	GG	AA	1946861041
SNP_P4_80384_11593235	NC_021165.1	Ca_kabuli_chr06	11593235	AA	GG	1946861043
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SNP_P4_80386_11593699	NC_021165.1	Ca_kabuli_chr06	11593699	CC	TT	1946861047
SNP_P4_80387_11594736	NC_021165.1	Ca_kabuli_chr06	11594736	AA	GG	1946861049
SNP_P4_80388_11594774	NC_021165.1	Ca_kabuli_chr06	11594774	AA	GG	1946861051
SNP_P4_80389_11594786	NC_021165.1	Ca_kabuli_chr06	11594786	CC	AA	1946861053
SNP_P4_80390_11594907	NC_021165.1	Ca_kabuli_chr06	11594907	GG	TT	1946861055
SNP_P4_80391_11595485	NC_021165.1	Ca_kabuli_chr06	11595485	TT	AA	1946861057
SNP_P4_80392_11595486	NC_021165.1	Ca_kabuli_chr06	11595486	GG	TT	1946861059

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_80395_11597722	NC_021165.1	Ca_kabuli_chr06	11597722	AA	TT	1946861067
SNP_P4_80396_11598069	NC_021165.1	Ca_kabuli_chr06	11598069	CC	AA	1946861069
SNP_P4_80397_11598534	NC_021165.1	Ca_kabuli_chr06	11598534	GG	AA	1946861071
SNP_P4_80399_11599281	NC_021165.1	Ca_kabuli_chr06	11599281	CC	TT	1946861073
SNP_P4_80400_11600185	NC_021165.1	Ca_kabuli_chr06	11600185	GG	AA	1946861075
SNP_P4_80401_11600337	NC_021165.1	Ca_kabuli_chr06	11600337	AA	TT	1946861077
SNP_P4_80402_11601782	NC_021165.1	Ca_kabuli_chr06	11601782	GG	AA	1946861079
SNP_P4_80403_11601836	NC_021165.1	Ca_kabuli_chr06	11601836	GG	TT	1946861081
SNP_P4_80404_11601855	NC_021165.1	Ca_kabuli_chr06	11601855	AA	GG	1946861083
SNP_P4_80405_11602299	NC_021165.1	Ca_kabuli_chr06	11602299	AA	GG	1946861085
SNP_P4_80406_11602388	NC_021165.1	Ca_kabuli_chr06	11602388	GG	AA	1946861087
SNP_P4_80407_11604286	NC_021165.1	Ca_kabuli_chr06	11604286	AA	TT	1946861089
SNP_P4_80409_11604396	NC_021165.1	Ca_kabuli_chr06	11604396	GG	AA	1946861091
SNP_P4_80410_11606251	NC_021165.1	Ca_kabuli_chr06	11606251	AA	GG	1946861093
SNP_P4_80411_11608173	NC_021165.1	Ca_kabuli_chr06	11608173	CC	GG	1946861095
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SNP_P4_80415_11611276	NC_021165.1	Ca_kabuli_chr06	11611276	GG	AA	1946861101
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SNP_P4_80417_11611459	NC_021165.1	Ca_kabuli_chr06	11611459	AA	GG	1946861105
SNP_P4_80418_11612152	NC_021165.1	Ca_kabuli_chr06	11612152	AA	GG	1946861107
SNP_P4_80419_11612578	NC_021165.1	Ca_kabuli_chr06	11612578	TT	CC	1946861109
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SNP_P4_80423_11614911	NC_021165.1	Ca_kabuli_chr06	11614911	AA	GG	1946861117
SNP_P4_80424_11619210	NC_021165.1	Ca_kabuli_chr06	11619210	GG	AA	1946861119
SNP_P4_80426_11620171	NC_021165.1	Ca_kabuli_chr06	11620171	CC	TT	1946861122
SNP_P4_80427_11621057	NC_021165.1	Ca_kabuli_chr06	11621057	CC	TT	1946861124
SNP_P4_80428_11622141	NC_021165.1	Ca_kabuli_chr06	11622141	AA	GG	1946861126
SNP_P4_80429_11622163	NC_021165.1	Ca_kabuli_chr06	11622163	CC	TT	1946861128
SNP_P4_80430_11622521	NC_021165.1	Ca_kabuli_chr06	11622521	CC	TT	1946861130
SNP_P4_80431_11623180	NC_021165.1	Ca_kabuli_chr06	11623180	TT	GG	1946861132
SNP_P4_80432_11623201	NC_021165.1	Ca_kabuli_chr06	11623201	CC	TT	1946861134
SNP_P4_80433_11623452	NC_021165.1	Ca_kabuli_chr06	11623452	AA	GG	1946861136
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SNP_P4_80436_11627653	NC_021165.1	Ca_kabuli_chr06	11627653	CC	TT	1946861142
SNP_P4_80438_11628312	NC_021165.1	Ca_kabuli_chr06	11628312	CC	AA	1946861144
SNP_P4_80439_11628497	NC_021165.1	Ca_kabuli_chr06	11628497	AA	CC	1946861146

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_80442_11631349	NC_021165.1	Ca_kabuli_chr06	11631349	CC	GG	1946861152
SNP_P4_80444_11637331	NC_021165.1	Ca_kabuli_chr06	11637331	TT	CC	1946861154
SNP_P4_80445_11637354	NC_021165.1	Ca_kabuli_chr06	11637354	TT	AA	1946861156
SNP_P4_80446_11637695	NC_021165.1	Ca_kabuli_chr06	11637695	TT	GG	1946861158
SNP_P4_80447_11637974	NC_021165.1	Ca_kabuli_chr06	11637974	TT	GG	1946861160
SNP_P4_80448_11642890	NC_021165.1	Ca_kabuli_chr06	11642890	CC	GG	1946861162
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SNP_P4_80450_11643785	NC_021165.1	Ca_kabuli_chr06	11643785	GG	TT	1946861167
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SNP_P4_80466_11656216	NC_021165.1	Ca_kabuli_chr06	11656216	AA	GG	1946861194
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SNP_P4_80473_11660474	NC_021165.1	Ca_kabuli_chr06	11660474	AA	GG	1946861210
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SNP_P4_80485_11669260	NC_021165.1	Ca_kabuli_chr06	11669260	GG	AA	1946861231
SNP_P4_80486_11669398	NC_021165.1	Ca_kabuli_chr06	11669398	CC	TT	1946861233
SNP_P4_80488_11671481	NC_021165.1	Ca_kabuli_chr06	11671481	TT	CC	1946861235

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_80492_11674718	NC_021165.1	Ca_kabuli_chr06	11674718	TT	CC	1946861243
SNP_P4_80493_11675048	NC_021165.1	Ca_kabuli_chr06	11675048	CC	GG	1946861245
SNP_P4_80494_11675050	NC_021165.1	Ca_kabuli_chr06	11675050	AA	GG	1946861247
SNP_P4_80495_11676629	NC_021165.1	Ca_kabuli_chr06	11676629	GG	AA	1946861249
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SNP_P4_80497_11677484	NC_021165.1	Ca_kabuli_chr06	11677484	GG	AA	1946861253
SNP_P4_80498_11677489	NC_021165.1	Ca_kabuli_chr06	11677489	AA	CC	1946861255
SNP_P4_80499_11677518	NC_021165.1	Ca_kabuli_chr06	11677518	GG	TT	1946861257
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SNP_P4_80503_11677757	NC_021165.1	Ca_kabuli_chr06	11677757	CC	GG	1946861265
SNP_P4_80504_11677774	NC_021165.1	Ca_kabuli_chr06	11677774	GG	AA	1946861268
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SNP_P4_80506_11677929	NC_021165.1	Ca_kabuli_chr06	11677929	GG	TT	1946861272
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SNP_P4_80508_11679168	NC_021165.1	Ca_kabuli_chr06	11679168	GG	TT	1946861276
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SNP_P4_80510_11679392	NC_021165.1	Ca_kabuli_chr06	11679392	AA	CC	1946861279
SNP_P4_80511_11679463	NC_021165.1	Ca_kabuli_chr06	11679463	GG	AA	1946861281
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SNP_P4_80515_11679983	NC_021165.1	Ca_kabuli_chr06	11679983	AA	CC	1946861290
SNP_P4_80517_11680618	NC_021165.1	Ca_kabuli_chr06	11680618	TT	CC	1946861292
SNP_P4_80518_11680706	NC_021165.1	Ca_kabuli_chr06	11680706	GG	AA	1946861294
SNP_P4_80519_11680817	NC_021165.1	Ca_kabuli_chr06	11680817	AA	GG	1946861296
SNP_P4_80520_11681020	NC_021165.1	Ca_kabuli_chr06	11681020	AA	GG	1946861298
SNP_P4_80521_11682518	NC_021165.1	Ca_kabuli_chr06	11682518	CC	TT	1946861300
SNP_P4_80522_11682748	NC_021165.1	Ca_kabuli_chr06	11682748	CC	TT	1946861302
SNP_P4_80523_11682751	NC_021165.1	Ca_kabuli_chr06	11682751	TT	CC	1946861304
SNP_P4_80524_11682782	NC_021165.1	Ca_kabuli_chr06	11682782	AA	GG	1946861306
SNP_P4_80525_11682789	NC_021165.1	Ca_kabuli_chr06	11682789	TT	CC	1946861308
SNP_P4_80526_11682816	NC_021165.1	Ca_kabuli_chr06	11682816	GG	AA	1946861310
SNP_P4_80527_11682833	NC_021165.1	Ca_kabuli_chr06	11682833	CC	GG	1946861312
SNP_P4_80528_11682933	NC_021165.1	Ca_kabuli_chr06	11682933	TT	AA	1946861314
SNP_P4_80529_11682996	NC_021165.1	Ca_kabuli_chr06	11682996	CC	AA	1946861316
SNP_P4_80530_11683083	NC_021165.1	Ca_kabuli_chr06	11683083	AA	TT	1946861318
SNP_P4_80531_11683100	NC_021165.1	Ca_kabuli_chr06	11683100	TT	CC	1946861319

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_80532_11683229	NC_021165.1	Ca_kabuli_chr06	11683229	TT	AA	1946861321
SNP_P4_80533_11684215	NC_021165.1	Ca_kabuli_chr06	11684215	AA	CC	1946861323
SNP_P4_80534_11684233	NC_021165.1	Ca_kabuli_chr06	11684233	GG	AA	1946861325
SNP_P4_80536_11686430	NC_021165.1	Ca_kabuli_chr06	11686430	TT	CC	1946861327
SNP_P4_80537_11686456	NC_021165.1	Ca_kabuli_chr06	11686456	AA	TT	1946861329
SNP_P4_80538_11687619	NC_021165.1	Ca_kabuli_chr06	11687619	AA	GG	1946861331
SNP_P4_80540_11689632	NC_021165.1	Ca_kabuli_chr06	11689632	GG	AA	1946861333
SNP_P4_80541_11689699	NC_021165.1	Ca_kabuli_chr06	11689699	TT	CC	1946861335
SNP_P4_80542_11689724	NC_021165.1	Ca_kabuli_chr06	11689724	GG	CC	1946861337
SNP_P4_80543_11690243	NC_021165.1	Ca_kabuli_chr06	11690243	GG	AA	1946861339
SNP_P4_80544_11692449	NC_021165.1	Ca_kabuli_chr06	11692449	GG	CC	1946861341
SNP_P4_80545_11692686	NC_021165.1	Ca_kabuli_chr06	11692686	CC	TT	1946861344
SNP_P4_80547_11693413	NC_021165.1	Ca_kabuli_chr06	11693413	CC	TT	1946861346
SNP_P4_80548_11693442	NC_021165.1	Ca_kabuli_chr06	11693442	CC	TT	1946861348
SNP_P4_80549_11696444	NC_021165.1	Ca_kabuli_chr06	11696444	AA	CC	1946861350
SNP_P4_80550_11697697	NC_021165.1	Ca_kabuli_chr06	11697697	GG	AA	1946861352
SNP_P4_80551_11700261	NC_021165.1	Ca_kabuli_chr06	11700261	GG	AA	1946861354
SNP_P4_80552_11700275	NC_021165.1	Ca_kabuli_chr06	11700275	GG	AA	1946861356
SNP_P4_80553_11700284	NC_021165.1	Ca_kabuli_chr06	11700284	AA	CC	1946861358
SNP_P4_80554_11700312	NC_021165.1	Ca_kabuli_chr06	11700312	AA	GG	1946861360
SNP_P4_80555_11700329	NC_021165.1	Ca_kabuli_chr06	11700329	CC	AA	1946861362
SNP_P4_80556_11700400	NC_021165.1	Ca_kabuli_chr06	11700400	AA	CC	1946861364
SNP_P4_80557_11700432	NC_021165.1	Ca_kabuli_chr06	11700432	TT	GG	1946861366
SNP_P4_80558_11701061	NC_021165.1	Ca_kabuli_chr06	11701061	AA	GG	1946861368
SNP_P4_80559_11702020	NC_021165.1	Ca_kabuli_chr06	11702020	GG	AA	1946861370
SNP_P4_80560_11703234	NC_021165.1	Ca_kabuli_chr06	11703234	TT	CC	1946861372
SNP_P4_80561_11703438	NC_021165.1	Ca_kabuli_chr06	11703438	TT	GG	1946861374
SNP_P4_80562_11703483	NC_021165.1	Ca_kabuli_chr06	11703483	CC	TT	1946861376
SNP_P4_80564_11707305	NC_021165.1	Ca_kabuli_chr06	11707305	TT	CC	1946861378
SNP_P4_80565_11707307	NC_021165.1	Ca_kabuli_chr06	11707307	AA	GG	1946861380
SNP_P4_80566_11708648	NC_021165.1	Ca_kabuli_chr06	11708648	GG	AA	1946861382
SNP_P4_80567_11708965	NC_021165.1	Ca_kabuli_chr06	11708965	GG	TT	1946861384
SNP_P4_80568_11709955	NC_021165.1	Ca_kabuli_chr06	11709955	CC	GG	1946861386
SNP_P4_80569_11710399	NC_021165.1	Ca_kabuli_chr06	11710399	TT	CC	1946861388
SNP_P4_80570_11711008	NC_021165.1	Ca_kabuli_chr06	11711008	AA	GG	1946861390
SNP_P4_80571_11712489	NC_021165.1	Ca_kabuli_chr06	11712489	AA	GG	1946861392
SNP_P4_80572_11717879	NC_021165.1	Ca_kabuli_chr06	11717879	TT	AA	1946861394
SNP_P4_80573_11718118	NC_021165.1	Ca_kabuli_chr06	11718118	GG	AA	1946861396
SNP_P4_80574_11718281	NC_021165.1	Ca_kabuli_chr06	11718281	GG	CC	1946861398
SNP_P4_80575_11718287	NC_021165.1	Ca_kabuli_chr06	11718287	GG	TT	1946861400
SNP_P4_80576_11718306	NC_021165.1	Ca_kabuli_chr06	11718306	GG	AA	1946861402
SNP_P4_80577_11719649	NC_021165.1	Ca_kabuli_chr06	11719649	AA	GG	1946861404

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_80579_11719931	NC_021165.1	Ca_kabuli_chr06	11719931	AA	CC	1946861409
SNP_P4_80580_11719936	NC_021165.1	Ca_kabuli_chr06	11719936	TT	CC	1946861411
SNP_P4_80581_11719959	NC_021165.1	Ca_kabuli_chr06	11719959	TT	CC	1946861413
SNP_P4_80582_11719963	NC_021165.1	Ca_kabuli_chr06	11719963	GG	TT	1946861415
SNP_P4_80583_11720366	NC_021165.1	Ca_kabuli_chr06	11720366	GG	AA	1946861417
SNP_P4_80584_11720583	NC_021165.1	Ca_kabuli_chr06	11720583	GG	AA	1946861419
SNP_P4_80585_11720615	NC_021165.1	Ca_kabuli_chr06	11720615	CC	TT	1946861421
SNP_P4_80586_11721255	NC_021165.1	Ca_kabuli_chr06	11721255	GG	AA	1946861425
SNP_P4_80587_11722299	NC_021165.1	Ca_kabuli_chr06	11722299	TT	CC	1946861427
SNP_P4_80588_11722355	NC_021165.1	Ca_kabuli_chr06	11722355	GG	AA	1946861429
SNP_P4_80589_11722366	NC_021165.1	Ca_kabuli_chr06	11722366	CC	GG	1946861431
SNP_P4_80590_11722411	NC_021165.1	Ca_kabuli_chr06	11722411	GG	AA	1946861433
SNP_P4_80592_11722769	NC_021165.1	Ca_kabuli_chr06	11722769	GG	TT	1946861435
SNP_P4_80593_11723042	NC_021165.1	Ca_kabuli_chr06	11723042	AA	GG	1946861437
SNP_P4_80594_11723742	NC_021165.1	Ca_kabuli_chr06	11723742	GG	TT	1946861439
SNP_P4_80596_11728844	NC_021165.1	Ca_kabuli_chr06	11728844	AA	TT	1946861441
SNP_P4_80597_11730806	NC_021165.1	Ca_kabuli_chr06	11730806	CC	TT	1946861442
SNP_P4_80598_11731017	NC_021165.1	Ca_kabuli_chr06	11731017	AA	GG	1946861445
SNP_P4_80599_11734680	NC_021165.1	Ca_kabuli_chr06	11734680	GG	AA	1946861448
SNP_P4_80600_11734725	NC_021165.1	Ca_kabuli_chr06	11734725	GG	AA	1946861450
SNP_P4_80601_11735058	NC_021165.1	Ca_kabuli_chr06	11735058	AA	TT	1946861452
SNP_P4_80602_11738329	NC_021165.1	Ca_kabuli_chr06	11738329	CC	TT	1946861454
SNP_P4_80603_11738437	NC_021165.1	Ca_kabuli_chr06	11738437	GG	AA	1946861456
SNP_P4_80604_11738883	NC_021165.1	Ca_kabuli_chr06	11738883	CC	AA	1946861457
SNP_P4_80606_11739289	NC_021165.1	Ca_kabuli_chr06	11739289	TT	AA	1946861459
SNP_P4_80607_11739294	NC_021165.1	Ca_kabuli_chr06	11739294	AA	CC	1946861461
SNP_P4_80608_11739436	NC_021165.1	Ca_kabuli_chr06	11739436	GG	AA	1946861463
SNP_P4_80609_11740875	NC_021165.1	Ca_kabuli_chr06	11740875	AA	GG	1946861465
SNP_P4_80610_11741024	NC_021165.1	Ca_kabuli_chr06	11741024	CC	TT	1946861467
SNP_P4_80611_11741195	NC_021165.1	Ca_kabuli_chr06	11741195	CC	AA	1946861469
SNP_P4_80613_11741330	NC_021165.1	Ca_kabuli_chr06	11741330	GG	AA	1946861471
SNP_P4_80614_11741686	NC_021165.1	Ca_kabuli_chr06	11741686	TT	CC	1946861474
SNP_P4_80618_11746279	NC_021165.1	Ca_kabuli_chr06	11746279	TT	GG	1946861476
SNP_P4_80620_11748770	NC_021165.1	Ca_kabuli_chr06	11748770	GG	AA	1946861478
SNP_P4_80621_11749428	NC_021165.1	Ca_kabuli_chr06	11749428	GG	AA	1946861480
SNP_P4_80623_11755181	NC_021165.1	Ca_kabuli_chr06	11755181	TT	AA	1946861482
SNP_P4_80624_11756414	NC_021165.1	Ca_kabuli_chr06	11756414	TT	GG	1946861484
SNP_P4_80625_11756814	NC_021165.1	Ca_kabuli_chr06	11756814	CC	TT	1946861486
SNP_P4_80626_11757481	NC_021165.1	Ca_kabuli_chr06	11757481	CC	TT	1946861488
SNP_P4_80627_11760698	NC_021165.1	Ca_kabuli_chr06	11760698	GG	TT	1946861490
SNP_P4_80628_11760957	NC_021165.1	Ca_kabuli_chr06	11760957	CC	TT	1946861492

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_80630_11761856	NC_021165.1	Ca_kabuli_chr06	11761856	AA	GG	1946861496
SNP_P4_80632_11762121	NC_021165.1	Ca_kabuli_chr06	11762121	TT	AA	1946861498
SNP_P4_80633_11762131	NC_021165.1	Ca_kabuli_chr06	11762131	TT	AA	1946861500
SNP_P4_80634_11762412	NC_021165.1	Ca_kabuli_chr06	11762412	GG	AA	1946861502
SNP_P4_80635_11763052	NC_021165.1	Ca_kabuli_chr06	11763052	TT	CC	1946861504
SNP_P4_80636_11763097	NC_021165.1	Ca_kabuli_chr06	11763097	TT	CC	1946861506
SNP_P4_80637_11765666	NC_021165.1	Ca_kabuli_chr06	11765666	GG	TT	1946861508
SNP_P4_80638_11776525	NC_021165.1	Ca_kabuli_chr06	11776525	CC	TT	1946861510
SNP_P4_80639_11777222	NC_021165.1	Ca_kabuli_chr06	11777222	GG	AA	1946861512
SNP_P4_80640_11777293	NC_021165.1	Ca_kabuli_chr06	11777293	TT	CC	1946861514
SNP_P4_80641_11778124	NC_021165.1	Ca_kabuli_chr06	11778124	GG	AA	1946861516
SNP_P4_80642_11780043	NC_021165.1	Ca_kabuli_chr06	11780043	CC	TT	1946861518
SNP_P4_80643_11781101	NC_021165.1	Ca_kabuli_chr06	11781101	AA	GG	1946861520
SNP_P4_80644_11781369	NC_021165.1	Ca_kabuli_chr06	11781369	CC	GG	1946861522
SNP_P4_80645_11785159	NC_021165.1	Ca_kabuli_chr06	11785159	CC	TT	1946861524
SNP_P4_80646_11787933	NC_021165.1	Ca_kabuli_chr06	11787933	GG	TT	1946861526
SNP_P4_80647_11788663	NC_021165.1	Ca_kabuli_chr06	11788663	AA	CC	1946861528
SNP_P4_80649_11791072	NC_021165.1	Ca_kabuli_chr06	11791072	CC	TT	1946861530
SNP_P4_80650_11792000	NC_021165.1	Ca_kabuli_chr06	11792000	AA	CC	1946861532
SNP_P4_80651_11807697	NC_021165.1	Ca_kabuli_chr06	11807697	AA	GG	1946861534
SNP_P4_80652_11807854	NC_021165.1	Ca_kabuli_chr06	11807854	GG	AA	1946861536
SNP_P4_80653_11812294	NC_021165.1	Ca_kabuli_chr06	11812294	TT	GG	1946861538
SNP_P4_80654_11812329	NC_021165.1	Ca_kabuli_chr06	11812329	CC	TT	1946861540
SNP_P4_80655_11812959	NC_021165.1	Ca_kabuli_chr06	11812959	AA	CC	1946861542
SNP_P4_80656_11813076	NC_021165.1	Ca_kabuli_chr06	11813076	AA	TT	1946861544
SNP_P4_80657_11813082	NC_021165.1	Ca_kabuli_chr06	11813082	TT	CC	1946861546
SNP_P4_80658_11814413	NC_021165.1	Ca_kabuli_chr06	11814413	CC	TT	1946861548
SNP_P4_80659_11827647	NC_021165.1	Ca_kabuli_chr06	11827647	GG	TT	1946861550
SNP_P4_80660_11827685	NC_021165.1	Ca_kabuli_chr06	11827685	GG	AA	1946861552
SNP_P4_80661_11839494	NC_021165.1	Ca_kabuli_chr06	11839494	GG	TT	1946861554
SNP_P4_80662_11839811	NC_021165.1	Ca_kabuli_chr06	11839811	TT	CC	1946861556
SNP_P4_80663_11840028	NC_021165.1	Ca_kabuli_chr06	11840028	TT	GG	1946861558
SNP_P4_80664_11840071	NC_021165.1	Ca_kabuli_chr06	11840071	GG	AA	1946861560
SNP_P4_80665_11840233	NC_021165.1	Ca_kabuli_chr06	11840233	CC	GG	1946861562
SNP_P4_80666_11840249	NC_021165.1	Ca_kabuli_chr06	11840249	CC	AA	1946861564
SNP_P4_80667_11840279	NC_021165.1	Ca_kabuli_chr06	11840279	GG	AA	1946861566
SNP_P4_80668_11840287	NC_021165.1	Ca_kabuli_chr06	11840287	CC	TT	1946861568
SNP_P4_80669_11840293	NC_021165.1	Ca_kabuli_chr06	11840293	TT	CC	1946861570
SNP_P4_80670_11840373	NC_021165.1	Ca_kabuli_chr06	11840373	TT	CC	1946861572
SNP_P4_80671_11840398	NC_021165.1	Ca_kabuli_chr06	11840398	TT	CC	1946861574
SNP_P4_80672_11840433	NC_021165.1	Ca_kabuli_chr06	11840433	CC	AA	1946861576

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_80674_11883412	NC_021165.1	Ca_kabuli_chr06	11883412	AA	TT	1946861581
SNP_P4_80675_11883497	NC_021165.1	Ca_kabuli_chr06	11883497	AA	CC	1946861583
SNP_P4_80676_11883503	NC_021165.1	Ca_kabuli_chr06	11883503	AA	TT	1946861585
SNP_P4_80677_11883814	NC_021165.1	Ca_kabuli_chr06	11883814	TT	CC	1946861587
SNP_P4_80678_11883837	NC_021165.1	Ca_kabuli_chr06	11883837	AA	CC	1946861589
SNP_P4_80679_11883887	NC_021165.1	Ca_kabuli_chr06	11883887	CC	TT	1946861591
SNP_P4_80680_11883892	NC_021165.1	Ca_kabuli_chr06	11883892	TT	AA	1946861593
SNP_P4_80681_11883893	NC_021165.1	Ca_kabuli_chr06	11883893	GG	AA	1946861595
SNP_P4_80682_11883910	NC_021165.1	Ca_kabuli_chr06	11883910	AA	GG	1946861597
SNP_P4_80683_11885274	NC_021165.1	Ca_kabuli_chr06	11885274	CC	AA	1946861598
SNP_P4_80684_11890200	NC_021165.1	Ca_kabuli_chr06	11890200	GG	TT	1946861600
SNP_P4_80685_11902699	NC_021165.1	Ca_kabuli_chr06	11902699	AA	CC	1946861602
SNP_P4_80686_11957518	NC_021165.1	Ca_kabuli_chr06	11957518	TT	CC	1946861604
SNP_P4_80687_11968977	NC_021165.1	Ca_kabuli_chr06	11968977	AA	CC	1946861606
SNP_P4_80688_11969069	NC_021165.1	Ca_kabuli_chr06	11969069	TT	GG	1946861608
SNP_P4_80689_11969089	NC_021165.1	Ca_kabuli_chr06	11969089	TT	CC	1946861610
SNP_P4_80690_11969092	NC_021165.1	Ca_kabuli_chr06	11969092	GG	TT	1946861612
SNP_P4_80691_11969137	NC_021165.1	Ca_kabuli_chr06	11969137	AA	GG	1946861614
SNP_P4_80692_11969224	NC_021165.1	Ca_kabuli_chr06	11969224	AA	GG	1946861616
SNP_P4_80693_11969245	NC_021165.1	Ca_kabuli_chr06	11969245	AA	CC	1946861618
SNP_P4_80694_11969256	NC_021165.1	Ca_kabuli_chr06	11969256	AA	GG	1946861620
SNP_P4_80695_11969297	NC_021165.1	Ca_kabuli_chr06	11969297	CC	TT	1946861622
SNP_P4_80696_11969316	NC_021165.1	Ca_kabuli_chr06	11969316	GG	AA	1946861624
SNP_P4_80697_11993693	NC_021165.1	Ca_kabuli_chr06	11993693	GG	CC	1946861626
SNP_P4_80699_12007388	NC_021165.1	Ca_kabuli_chr06	12007388	CC	TT	1946861628
SNP_P4_80700_12007642	NC_021165.1	Ca_kabuli_chr06	12007642	TT	CC	1946861630
SNP_P4_80701_12042007	NC_021165.1	Ca_kabuli_chr06	12042007	CC	TT	1946861632
SNP_P4_80702_12044552	NC_021165.1	Ca_kabuli_chr06	12044552	AA	CC	1946861634
SNP_P4_80703_12044927	NC_021165.1	Ca_kabuli_chr06	12044927	AA	GG	1946861636
SNP_P4_80705_12089612	NC_021165.1	Ca_kabuli_chr06	12089612	TT	CC	1946861638
SNP_P4_80706_12089707	NC_021165.1	Ca_kabuli_chr06	12089707	TT	CC	1946861640
SNP_P4_80707_12089996	NC_021165.1	Ca_kabuli_chr06	12089996	AA	GG	1946861642
SNP_P4_80708_12090984	NC_021165.1	Ca_kabuli_chr06	12090984	AA	GG	1946861644
SNP_P4_80709_12090997	NC_021165.1	Ca_kabuli_chr06	12090997	TT	CC	1946861646
SNP_P4_80710_12091041	NC_021165.1	Ca_kabuli_chr06	12091041	AA	GG	1946861648
SNP_P4_80711_12091432	NC_021165.1	Ca_kabuli_chr06	12091432	AA	CC	1946861650
SNP_P4_80712_12091466	NC_021165.1	Ca_kabuli_chr06	12091466	CC	TT	1946861652
SNP_P4_80713_12103329	NC_021165.1	Ca_kabuli_chr06	12103329	AA	CC	1946861654
SNP_P4_80714_12103336	NC_021165.1	Ca_kabuli_chr06	12103336	TT	AA	1946861656
SNP_P4_80715_12104865	NC_021165.1	Ca_kabuli_chr06	12104865	AA	GG	1946861658
SNP_P4_80716_12104869	NC_021165.1	Ca_kabuli_chr06	12104869	CC	TT	1946861660

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_80718_12109386	NC_021165.1	Ca_kabuli_chr06	12109386	CC	TT	1946861664
SNP_P4_80719_12112868	NC_021165.1	Ca_kabuli_chr06	12112868	GG	AA	1946861666
SNP_P4_80720_12113130	NC_021165.1	Ca_kabuli_chr06	12113130	AA	GG	1946861668
SNP_P4_80721_12126493	NC_021165.1	Ca_kabuli_chr06	12126493	AA	CC	1946861670
SNP_P4_80722_12126775	NC_021165.1	Ca_kabuli_chr06	12126775	TT	CC	1946861672
SNP_P4_80723_12127257	NC_021165.1	Ca_kabuli_chr06	12127257	TT	AA	1946861674
SNP_P4_80724_12127465	NC_021165.1	Ca_kabuli_chr06	12127465	CC	TT	1946861676
SNP_P4_80725_12127481	NC_021165.1	Ca_kabuli_chr06	12127481	GG	AA	1946861678
SNP_P4_80726_12129982	NC_021165.1	Ca_kabuli_chr06	12129982	GG	CC	1946861680
SNP_P4_80727_12130313	NC_021165.1	Ca_kabuli_chr06	12130313	TT	CC	1946861682
SNP_P4_80728_12163895	NC_021165.1	Ca_kabuli_chr06	12163895	GG	AA	1946861684
SNP_P4_80730_12236494	NC_021165.1	Ca_kabuli_chr06	12236494	TT	CC	1946861686
SNP_P4_80731_12236535	NC_021165.1	Ca_kabuli_chr06	12236535	TT	CC	1946861688
SNP_P4_80732_12236576	NC_021165.1	Ca_kabuli_chr06	12236576	TT	CC	1946861690
SNP_P4_80733_12236595	NC_021165.1	Ca_kabuli_chr06	12236595	TT	GG	1946861692
SNP_P4_80734_12236898	NC_021165.1	Ca_kabuli_chr06	12236898	GG	AA	1946861694
SNP_P4_80735_12238250	NC_021165.1	Ca_kabuli_chr06	12238250	GG	TT	1946861696
SNP_P4_80736_12238253	NC_021165.1	Ca_kabuli_chr06	12238253	GG	AA	1946861698
SNP_P4_80737_12238293	NC_021165.1	Ca_kabuli_chr06	12238293	GG	TT	1946861700
SNP_P4_80738_12238386	NC_021165.1	Ca_kabuli_chr06	12238386	TT	AA	1946861702
SNP_P4_80739_12238695	NC_021165.1	Ca_kabuli_chr06	12238695	CC	AA	1946861704
SNP_P4_80740_12238696	NC_021165.1	Ca_kabuli_chr06	12238696	AA	TT	1946861706
SNP_P4_80741_12238698	NC_021165.1	Ca_kabuli_chr06	12238698	CC	AA	1946861708
SNP_P4_80742_12238704	NC_021165.1	Ca_kabuli_chr06	12238704	TT	AA	1946861710
SNP_P4_80743_12238720	NC_021165.1	Ca_kabuli_chr06	12238720	CC	TT	1946861712
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SNP_P4_80745_12243348	NC_021165.1	Ca_kabuli_chr06	12243348	CC	GG	1946861716
SNP_P4_80746_12247835	NC_021165.1	Ca_kabuli_chr06	12247835	GG	AA	1946861718
SNP_P4_80747_12251664	NC_021165.1	Ca_kabuli_chr06	12251664	GG	AA	1946861720
SNP_P4_80748_12252262	NC_021165.1	Ca_kabuli_chr06	12252262	AA	GG	1946861722
SNP_P4_80750_12255417	NC_021165.1	Ca_kabuli_chr06	12255417	GG	AA	1946861724
SNP_P4_80751_12255418	NC_021165.1	Ca_kabuli_chr06	12255418	AA	TT	1946861726
SNP_P4_80752_12258934	NC_021165.1	Ca_kabuli_chr06	12258934	AA	GG	1946861728
SNP_P4_80753_12258948	NC_021165.1	Ca_kabuli_chr06	12258948	GG	AA	1946861730
SNP_P4_80754_12258959	NC_021165.1	Ca_kabuli_chr06	12258959	GG	AA	1946861732
SNP_P4_80755_12258962	NC_021165.1	Ca_kabuli_chr06	12258962	CC	GG	1946861734
SNP_P4_80756_12260137	NC_021165.1	Ca_kabuli_chr06	12260137	GG	AA	1946861736
SNP_P4_80757_12260202	NC_021165.1	Ca_kabuli_chr06	12260202	AA	CC	1946861738
SNP_P4_80758_12260205	NC_021165.1	Ca_kabuli_chr06	12260205	CC	TT	1946861741
SNP_P4_80759_12270658	NC_021165.1	Ca_kabuli_chr06	12270658	CC	TT	1946861743
SNP_P4_80760_12296002	NC_021165.1	Ca_kabuli_chr06	12296002	TT	AA	1946861745

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_80763_12332421	NC_021165.1	Ca_kabuli_chr06	12332421	CC	TT	1946861749
SNP_P4_80764_12334932	NC_021165.1	Ca_kabuli_chr06	12334932	CC	AA	1946861751
SNP_P4_80765_12335042	NC_021165.1	Ca_kabuli_chr06	12335042	TT	CC	1946861753
SNP_P4_80767_12335803	NC_021165.1	Ca_kabuli_chr06	12335803	AA	TT	1946861755
SNP_P4_80768_12335969	NC_021165.1	Ca_kabuli_chr06	12335969	AA	GG	1946861757
SNP_P4_80769_12340733	NC_021165.1	Ca_kabuli_chr06	12340733	CC	TT	1946861759
SNP_P4_80770_12340748	NC_021165.1	Ca_kabuli_chr06	12340748	GG	AA	1946861761
SNP_P4_80771_12345017	NC_021165.1	Ca_kabuli_chr06	12345017	CC	TT	1946861763
SNP_P4_80772_12357573	NC_021165.1	Ca_kabuli_chr06	12357573	AA	GG	1946861765
SNP_P4_80773_12357602	NC_021165.1	Ca_kabuli_chr06	12357602	TT	GG	1946861767
SNP_P4_80774_12357705	NC_021165.1	Ca_kabuli_chr06	12357705	AA	TT	1946861769
SNP_P4_80775_12361434	NC_021165.1	Ca_kabuli_chr06	12361434	GG	AA	1946861771
SNP_P4_80776_12376796	NC_021165.1	Ca_kabuli_chr06	12376796	TT	CC	1946861773
SNP_P4_80777_12419903	NC_021165.1	Ca_kabuli_chr06	12419903	TT	GG	1946861775
SNP_P4_80778_12419904	NC_021165.1	Ca_kabuli_chr06	12419904	TT	CC	1946861777
SNP_P4_80779_12425741	NC_021165.1	Ca_kabuli_chr06	12425741	CC	TT	1946861779
SNP_P4_80780_12427865	NC_021165.1	Ca_kabuli_chr06	12427865	CC	GG	1946861781
SNP_P4_80781_12447519	NC_021165.1	Ca_kabuli_chr06	12447519	CC	TT	1946861783
SNP_P4_80782_12472909	NC_021165.1	Ca_kabuli_chr06	12472909	CC	TT	1946861784
SNP_P4_80783_12506929	NC_021165.1	Ca_kabuli_chr06	12506929	GG	AA	1946861785
SNP_P4_80785_12526647	NC_021165.1	Ca_kabuli_chr06	12526647	AA	TT	1946861786
SNP_P4_80786_12529905	NC_021165.1	Ca_kabuli_chr06	12529905	TT	AA	1946861787
SNP_P4_80788_12537836	NC_021165.1	Ca_kabuli_chr06	12537836	TT	CC	1946861788
SNP_P4_80790_12629176	NC_021165.1	Ca_kabuli_chr06	12629176	AA	GG	1946861789
SNP_P4_80791_12665936	NC_021165.1	Ca_kabuli_chr06	12665936	AA	GG	1946861790
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SNP_P4_80795_12699720	NC_021165.1	Ca_kabuli_chr06	12699720	AA	GG	1946861792
SNP_P4_80796_12700908	NC_021165.1	Ca_kabuli_chr06	12700908	TT	GG	1946861793
SNP_P4_80797_12700911	NC_021165.1	Ca_kabuli_chr06	12700911	TT	GG	1946861794
SNP_P4_80799_12724592	NC_021165.1	Ca_kabuli_chr06	12724592	TT	AA	1946861796
SNP_P4_80800_12734297	NC_021165.1	Ca_kabuli_chr06	12734297	GG	TT	1946861798
SNP_P4_80801_12734470	NC_021165.1	Ca_kabuli_chr06	12734470	GG	AA	1946861800
SNP_P4_80802_12744242	NC_021165.1	Ca_kabuli_chr06	12744242	CC	TT	1946861803
SNP_P4_80803_12753531	NC_021165.1	Ca_kabuli_chr06	12753531	GG	AA	1946861805
SNP_P4_80804_12754275	NC_021165.1	Ca_kabuli_chr06	12754275	AA	TT	1946861807
SNP_P4_80805_12758535	NC_021165.1	Ca_kabuli_chr06	12758535	AA	GG	1946861809
SNP_P4_80808_12789047	NC_021165.1	Ca_kabuli_chr06	12789047	CC	TT	1946861811
SNP_P4_80809_12789076	NC_021165.1	Ca_kabuli_chr06	12789076	CC	TT	1946861813
SNP_P4_80810_12819684	NC_021165.1	Ca_kabuli_chr06	12819684	TT	AA	1946861815
SNP_P4_80811_12834200	NC_021165.1	Ca_kabuli_chr06	12834200	AA	GG	1946861817
SNP_P4_80812_12834277	NC_021165.1	Ca_kabuli_chr06	12834277	CC	TT	1946861819

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_80814_12837745	NC_021165.1	Ca_kabuli_chr06	12837745	TT	CC	1946861823
SNP_P4_80815_12856467	NC_021165.1	Ca_kabuli_chr06	12856467	TT	CC	1946861825
SNP_P4_80816_12856479	NC_021165.1	Ca_kabuli_chr06	12856479	GG	CC	1946861827
SNP_P4_80817_12860104	NC_021165.1	Ca_kabuli_chr06	12860104	GG	AA	1946861830
SNP_P4_80818_12860510	NC_021165.1	Ca_kabuli_chr06	12860510	GG	TT	1946861832
SNP_P4_80819_12860518	NC_021165.1	Ca_kabuli_chr06	12860518	CC	TT	1946861834
SNP_P4_80820_12861151	NC_021165.1	Ca_kabuli_chr06	12861151	GG	TT	1946861836
SNP_P4_80821_12861153	NC_021165.1	Ca_kabuli_chr06	12861153	TT	CC	1946861838
SNP_P4_80823_12862085	NC_021165.1	Ca_kabuli_chr06	12862085	CC	TT	1946861840
SNP_P4_80824_12862590	NC_021165.1	Ca_kabuli_chr06	12862590	TT	CC	1946861842
SNP_P4_80825_12863637	NC_021165.1	Ca_kabuli_chr06	12863637	AA	CC	1946861844
SNP_P4_80829_12865931	NC_021165.1	Ca_kabuli_chr06	12865931	GG	TT	1946861846
SNP_P4_80830_12865968	NC_021165.1	Ca_kabuli_chr06	12865968	CC	TT	1946861848
SNP_P4_80832_12866503	NC_021165.1	Ca_kabuli_chr06	12866503	AA	GG	1946861851
SNP_P4_80833_12866880	NC_021165.1	Ca_kabuli_chr06	12866880	GG	AA	1946861853
SNP_P4_80835_12868410	NC_021165.1	Ca_kabuli_chr06	12868410	GG	TT	1946861855
SNP_P4_80836_12870225	NC_021165.1	Ca_kabuli_chr06	12870225	CC	GG	1946861857
SNP_P4_80838_12871234	NC_021165.1	Ca_kabuli_chr06	12871234	AA	TT	1946861859
SNP_P4_80839_12871250	NC_021165.1	Ca_kabuli_chr06	12871250	CC	TT	1946861861
SNP_P4_80840_12871268	NC_021165.1	Ca_kabuli_chr06	12871268	GG	AA	1946861863
SNP_P4_80841_12871284	NC_021165.1	Ca_kabuli_chr06	12871284	TT	AA	1946861865
SNP_P4_80842_12871346	NC_021165.1	Ca_kabuli_chr06	12871346	AA	GG	1946861867
SNP_P4_80844_12872093	NC_021165.1	Ca_kabuli_chr06	12872093	CC	AA	1946861869
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SNP_P4_80848_12877357	NC_021165.1	Ca_kabuli_chr06	12877357	TT	CC	1946861876
SNP_P4_80849_12877364	NC_021165.1	Ca_kabuli_chr06	12877364	CC	TT	1946861878
SNP_P4_80850_12877529	NC_021165.1	Ca_kabuli_chr06	12877529	GG	AA	1946861880
SNP_P4_80851_12880685	NC_021165.1	Ca_kabuli_chr06	12880685	CC	AA	1946861882
SNP_P4_80852_12880909	NC_021165.1	Ca_kabuli_chr06	12880909	TT	AA	1946861884
SNP_P4_80853_12880998	NC_021165.1	Ca_kabuli_chr06	12880998	GG	TT	1946861886
SNP_P4_80854_12882229	NC_021165.1	Ca_kabuli_chr06	12882229	CC	TT	1946861888
SNP_P4_80855_12882605	NC_021165.1	Ca_kabuli_chr06	12882605	TT	AA	1946861890
SNP_P4_80856_12882627	NC_021165.1	Ca_kabuli_chr06	12882627	GG	AA	1946861892
SNP_P4_80857_12883303	NC_021165.1	Ca_kabuli_chr06	12883303	AA	GG	1946861894
SNP_P4_80858_12884942	NC_021165.1	Ca_kabuli_chr06	12884942	AA	CC	1946861896
SNP_P4_80859_12884943	NC_021165.1	Ca_kabuli_chr06	12884943	TT	AA	1946861898
SNP_P4_80860_12885059	NC_021165.1	Ca_kabuli_chr06	12885059	GG	AA	1946861900
SNP_P4_80861_12887005	NC_021165.1	Ca_kabuli_chr06	12887005	TT	CC	1946861902
SNP_P4_80862_12887019	NC_021165.1	Ca_kabuli_chr06	12887019	CC	AA	1946861904
SNP_P4_80863_12887025	NC_021165.1	Ca_kabuli_chr06	12887025	GG	AA	1946861906

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_80866_12887035	NC_021165.1	Ca_kabuli_chr06	12887035	TT	CC	1946861912
SNP_P4_80867_12887048	NC_021165.1	Ca_kabuli_chr06	12887048	AA	GG	1946861914
SNP_P4_80868_12887247	NC_021165.1	Ca_kabuli_chr06	12887247	CC	TT	1946861916
SNP_P4_80869_12887321	NC_021165.1	Ca_kabuli_chr06	12887321	GG	AA	1946861918
SNP_P4_80870_12887344	NC_021165.1	Ca_kabuli_chr06	12887344	CC	GG	1946861920
SNP_P4_80871_12887463	NC_021165.1	Ca_kabuli_chr06	12887463	CC	TT	1946861922
SNP_P4_80872_12887487	NC_021165.1	Ca_kabuli_chr06	12887487	CC	TT	1946861924
SNP_P4_80873_12887495	NC_021165.1	Ca_kabuli_chr06	12887495	TT	AA	1946861926
SNP_P4_80874_12887504	NC_021165.1	Ca_kabuli_chr06	12887504	TT	CC	1946861928
SNP_P4_80876_12887681	NC_021165.1	Ca_kabuli_chr06	12887681	TT	CC	1946861931
SNP_P4_80877_12887706	NC_021165.1	Ca_kabuli_chr06	12887706	CC	TT	1946861933
SNP_P4_80878_12887716	NC_021165.1	Ca_kabuli_chr06	12887716	GG	AA	1946861935
SNP_P4_80879_12887722	NC_021165.1	Ca_kabuli_chr06	12887722	TT	CC	1946861937
SNP_P4_80880_12887741	NC_021165.1	Ca_kabuli_chr06	12887741	AA	GG	1946861939
SNP_P4_80881_12887744	NC_021165.1	Ca_kabuli_chr06	12887744	AA	CC	1946861941
SNP_P4_80882_12887755	NC_021165.1	Ca_kabuli_chr06	12887755	TT	CC	1946861943
SNP_P4_80883_12887781	NC_021165.1	Ca_kabuli_chr06	12887781	TT	AA	1946861945
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SNP_P4_80888_12891071	NC_021165.1	Ca_kabuli_chr06	12891071	AA	GG	1946861953
SNP_P4_80889_12891092	NC_021165.1	Ca_kabuli_chr06	12891092	CC	TT	1946861955
SNP_P4_80890_12891822	NC_021165.1	Ca_kabuli_chr06	12891822	AA	GG	1946861957
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SNP_P4_80892_12892405	NC_021165.1	Ca_kabuli_chr06	12892405	TT	AA	1946861961
SNP_P4_80893_12894142	NC_021165.1	Ca_kabuli_chr06	12894142	CC	AA	1946861963
SNP_P4_80894_12895887	NC_021165.1	Ca_kabuli_chr06	12895887	GG	AA	1946861965
SNP_P4_80895_12896725	NC_021165.1	Ca_kabuli_chr06	12896725	TT	CC	1946861967
SNP_P4_80896_12896991	NC_021165.1	Ca_kabuli_chr06	12896991	CC	TT	1946861969
SNP_P4_80897_12898234	NC_021165.1	Ca_kabuli_chr06	12898234	CC	TT	1946861971
SNP_P4_80899_12899058	NC_021165.1	Ca_kabuli_chr06	12899058	GG	AA	1946861973
SNP_P4_80900_12899299	NC_021165.1	Ca_kabuli_chr06	12899299	GG	AA	1946861975
SNP_P4_80902_12899967	NC_021165.1	Ca_kabuli_chr06	12899967	TT	AA	1946861977
SNP_P4_80903_12904402	NC_021165.1	Ca_kabuli_chr06	12904402	GG	AA	1946861979
SNP_P4_80904_12904458	NC_021165.1	Ca_kabuli_chr06	12904458	AA	CC	1946861981
SNP_P4_80906_12908458	NC_021165.1	Ca_kabuli_chr06	12908458	AA	TT	1946861983
SNP_P4_80907_12908459	NC_021165.1	Ca_kabuli_chr06	12908459	GG	AA	1946861985
SNP_P4_80909_12908719	NC_021165.1	Ca_kabuli_chr06	12908719	CC	AA	1946861987
SNP_P4_80910_12908966	NC_021165.1	Ca_kabuli_chr06	12908966	CC	GG	1946861989
SNP_P4_80911_12909328	NC_021165.1	Ca_kabuli_chr06	12909328	CC	TT	1946861991

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_80915_12910622	NC_021165.1	Ca_kabuli_chr06	12910622	GG	AA	1946861997
SNP_P4_80916_12910632	NC_021165.1	Ca_kabuli_chr06	12910632	GG	AA	1946861999
SNP_P4_80917_12910935	NC_021165.1	Ca_kabuli_chr06	12910935	TT	CC	1946862001
SNP_P4_80919_12910947	NC_021165.1	Ca_kabuli_chr06	12910947	GG	AA	1946862003
SNP_P4_80920_12919432	NC_021165.1	Ca_kabuli_chr06	12919432	CC	TT	1946862005
SNP_P4_80921_12919463	NC_021165.1	Ca_kabuli_chr06	12919463	CC	TT	1946862007
SNP_P4_80925_12921814	NC_021165.1	Ca_kabuli_chr06	12921814	GG	AA	1946862009
SNP_P4_80929_12923844	NC_021165.1	Ca_kabuli_chr06	12923844	AA	CC	1946862011
SNP_P4_80930_12923884	NC_021165.1	Ca_kabuli_chr06	12923884	GG	AA	1946862013
SNP_P4_80931_12923890	NC_021165.1	Ca_kabuli_chr06	12923890	TT	CC	1946862015
SNP_P4_80932_12923893	NC_021165.1	Ca_kabuli_chr06	12923893	CC	TT	1946862017
SNP_P4_80933_12923903	NC_021165.1	Ca_kabuli_chr06	12923903	TT	AA	1946862019
SNP_P4_80934_12924774	NC_021165.1	Ca_kabuli_chr06	12924774	CC	AA	1946862021
SNP_P4_80935_12924825	NC_021165.1	Ca_kabuli_chr06	12924825	AA	GG	1946862023
SNP_P4_80936_12924971	NC_021165.1	Ca_kabuli_chr06	12924971	CC	TT	1946862025
SNP_P4_80937_12928150	NC_021165.1	Ca_kabuli_chr06	12928150	AA	GG	1946862027
SNP_P4_80938_12929722	NC_021165.1	Ca_kabuli_chr06	12929722	CC	AA	1946862029
SNP_P4_80939_12929793	NC_021165.1	Ca_kabuli_chr06	12929793	TT	CC	1946862031
SNP_P4_80940_12930102	NC_021165.1	Ca_kabuli_chr06	12930102	GG	TT	1946862033
SNP_P4_80941_12930311	NC_021165.1	Ca_kabuli_chr06	12930311	AA	TT	1946862035
SNP_P4_80942_12930822	NC_021165.1	Ca_kabuli_chr06	12930822	AA	TT	1946862037
SNP_P4_80943_12931262	NC_021165.1	Ca_kabuli_chr06	12931262	GG	AA	1946862039
SNP_P4_80944_12931296	NC_021165.1	Ca_kabuli_chr06	12931296	GG	CC	1946862041
SNP_P4_80946_12931532	NC_021165.1	Ca_kabuli_chr06	12931532	TT	CC	1946862043
SNP_P4_80947_12931579	NC_021165.1	Ca_kabuli_chr06	12931579	AA	TT	1946862045
SNP_P4_80949_12932930	NC_021165.1	Ca_kabuli_chr06	12932930	CC	TT	1946862047
SNP_P4_80952_12933516	NC_021165.1	Ca_kabuli_chr06	12933516	TT	AA	1946862049
SNP_P4_80953_12933668	NC_021165.1	Ca_kabuli_chr06	12933668	TT	CC	1946862051
SNP_P4_80955_12933684	NC_021165.1	Ca_kabuli_chr06	12933684	CC	GG	1946862053
SNP_P4_80956_12933692	NC_021165.1	Ca_kabuli_chr06	12933692	TT	CC	1946862055
SNP_P4_80957_12933755	NC_021165.1	Ca_kabuli_chr06	12933755	GG	AA	1946862057
SNP_P4_80958_12933772	NC_021165.1	Ca_kabuli_chr06	12933772	GG	CC	1946862059
SNP_P4_80959_12933799	NC_021165.1	Ca_kabuli_chr06	12933799	TT	GG	1946862061
SNP_P4_80961_12933869	NC_021165.1	Ca_kabuli_chr06	12933869	GG	AA	1946862063
SNP_P4_80962_12934129	NC_021165.1	Ca_kabuli_chr06	12934129	GG	AA	1946862065
SNP_P4_80963_12934148	NC_021165.1	Ca_kabuli_chr06	12934148	AA	CC	1946862067
SNP_P4_80964_12934333	NC_021165.1	Ca_kabuli_chr06	12934333	AA	TT	1946862069
SNP_P4_80966_12934938	NC_021165.1	Ca_kabuli_chr06	12934938	GG	TT	1946862071
SNP_P4_80967_12935820	NC_021165.1	Ca_kabuli_chr06	12935820	TT	AA	1946862073
SNP_P4_80968_12935821	NC_021165.1	Ca_kabuli_chr06	12935821	CC	AA	1946862075

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_80971_12940196	NC_021165.1	Ca_kabuli_chr06	12940196	GG	TT	1946862079
SNP_P4_80972_12941517	NC_021165.1	Ca_kabuli_chr06	12941517	GG	TT	1946862081
SNP_P4_80973_12944129	NC_021165.1	Ca_kabuli_chr06	12944129	CC	TT	1946862083
SNP_P4_80974_12944448	NC_021165.1	Ca_kabuli_chr06	12944448	CC	GG	1946862085
SNP_P4_80976_12944562	NC_021165.1	Ca_kabuli_chr06	12944562	AA	GG	1946862087
SNP_P4_80977_12944858	NC_021165.1	Ca_kabuli_chr06	12944858	CC	TT	1946862089
SNP_P4_80978_12944865	NC_021165.1	Ca_kabuli_chr06	12944865	TT	GG	1946862091
SNP_P4_80979_12945315	NC_021165.1	Ca_kabuli_chr06	12945315	TT	CC	1946862093
SNP_P4_80980_12945320	NC_021165.1	Ca_kabuli_chr06	12945320	CC	GG	1946862095
SNP_P4_80982_12945451	NC_021165.1	Ca_kabuli_chr06	12945451	TT	CC	1946862097
SNP_P4_80983_12945593	NC_021165.1	Ca_kabuli_chr06	12945593	GG	CC	1946862099
SNP_P4_80984_12945744	NC_021165.1	Ca_kabuli_chr06	12945744	AA	GG	1946862101
SNP_P4_80985_12945768	NC_021165.1	Ca_kabuli_chr06	12945768	AA	GG	1946862103
SNP_P4_80986_12945769	NC_021165.1	Ca_kabuli_chr06	12945769	CC	TT	1946862105
SNP_P4_80987_12945783	NC_021165.1	Ca_kabuli_chr06	12945783	GG	AA	1946862107
SNP_P4_80988_12945823	NC_021165.1	Ca_kabuli_chr06	12945823	CC	TT	1946862109
SNP_P4_80989_12945859	NC_021165.1	Ca_kabuli_chr06	12945859	AA	GG	1946862111
SNP_P4_80990_12945871	NC_021165.1	Ca_kabuli_chr06	12945871	GG	AA	1946862113
SNP_P4_80991_12945880	NC_021165.1	Ca_kabuli_chr06	12945880	AA	GG	1946862115
SNP_P4_80992_12945885	NC_021165.1	Ca_kabuli_chr06	12945885	GG	AA	1946862117
SNP_P4_80993_12946123	NC_021165.1	Ca_kabuli_chr06	12946123	GG	AA	1946862119
SNP_P4_80994_12948400	NC_021165.1	Ca_kabuli_chr06	12948400	GG	TT	1946862121
SNP_P4_80995_12948421	NC_021165.1	Ca_kabuli_chr06	12948421	GG	AA	1946862123
SNP_P4_80996_12948423	NC_021165.1	Ca_kabuli_chr06	12948423	AA	TT	1946862125
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SNP_P4_81000_12948544	NC_021165.1	Ca_kabuli_chr06	12948544	GG	TT	1946862131
SNP_P4_81001_12948756	NC_021165.1	Ca_kabuli_chr06	12948756	CC	AA	1946862133
SNP_P4_81002_12949456	NC_021165.1	Ca_kabuli_chr06	12949456	TT	GG	1946862135
SNP_P4_81004_12949496	NC_021165.1	Ca_kabuli_chr06	12949496	TT	GG	1946862137
SNP_P4_81005_12949769	NC_021165.1	Ca_kabuli_chr06	12949769	AA	TT	1946862139
SNP_P4_81006_12949811	NC_021165.1	Ca_kabuli_chr06	12949811	GG	AA	1946862141
SNP_P4_81007_12949837	NC_021165.1	Ca_kabuli_chr06	12949837	GG	TT	1946862143
SNP_P4_81008_12949880	NC_021165.1	Ca_kabuli_chr06	12949880	AA	TT	1946862145
SNP_P4_81009_12950534	NC_021165.1	Ca_kabuli_chr06	12950534	GG	TT	1946862147
SNP_P4_81010_12950577	NC_021165.1	Ca_kabuli_chr06	12950577	CC	TT	1946862150
SNP_P4_81011_12950585	NC_021165.1	Ca_kabuli_chr06	12950585	TT	GG	1946862152
SNP_P4_81012_12950799	NC_021165.1	Ca_kabuli_chr06	12950799	TT	GG	1946862154
SNP_P4_81013_12952466	NC_021165.1	Ca_kabuli_chr06	12952466	AA	TT	1946862156
SNP_P4_81015_12952916	NC_021165.1	Ca_kabuli_chr06	12952916	GG	AA	1946862158
SNP_P4_81016_12953183	NC_021165.1	Ca_kabuli_chr06	12953183	GG	AA	1946862160

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_81018_12953956	NC_021165.1	Ca_kabuli_chr06	12953956	AA	GG	1946862164
SNP_P4_81019_12954041	NC_021165.1	Ca_kabuli_chr06	12954041	CC	AA	1946862166
SNP_P4_81020_12954386	NC_021165.1	Ca_kabuli_chr06	12954386	GG	AA	1946862167
SNP_P4_81021_12954469	NC_021165.1	Ca_kabuli_chr06	12954469	GG	AA	1946862169
SNP_P4_81022_12954534	NC_021165.1	Ca_kabuli_chr06	12954534	GG	AA	1946862171
SNP_P4_81023_12954538	NC_021165.1	Ca_kabuli_chr06	12954538	TT	CC	1946862173
SNP_P4_81024_12954558	NC_021165.1	Ca_kabuli_chr06	12954558	CC	TT	1946862175
SNP_P4_81025_12954577	NC_021165.1	Ca_kabuli_chr06	12954577	TT	CC	1946862177
SNP_P4_81026_12954599	NC_021165.1	Ca_kabuli_chr06	12954599	CC	AA	1946862179
SNP_P4_81027_12954619	NC_021165.1	Ca_kabuli_chr06	12954619	AA	TT	1946862181
SNP_P4_81028_12954628	NC_021165.1	Ca_kabuli_chr06	12954628	AA	GG	1946862183
SNP_P4_81030_12955509	NC_021165.1	Ca_kabuli_chr06	12955509	AA	GG	1946862185
SNP_P4_81032_12956236	NC_021165.1	Ca_kabuli_chr06	12956236	CC	TT	1946862187
SNP_P4_81033_12956242	NC_021165.1	Ca_kabuli_chr06	12956242	CC	TT	1946862189
SNP_P4_81034_12956438	NC_021165.1	Ca_kabuli_chr06	12956438	GG	AA	1946862191
SNP_P4_81035_12956492	NC_021165.1	Ca_kabuli_chr06	12956492	TT	CC	1946862193
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SNP_P4_81037_12956978	NC_021165.1	Ca_kabuli_chr06	12956978	AA	GG	1946862196
SNP_P4_81038_12957152	NC_021165.1	Ca_kabuli_chr06	12957152	AA	TT	1946862198
SNP_P4_81040_12957171	NC_021165.1	Ca_kabuli_chr06	12957171	GG	AA	1946862200
SNP_P4_81041_12957287	NC_021165.1	Ca_kabuli_chr06	12957287	CC	TT	1946862202
SNP_P4_81043_12957689	NC_021165.1	Ca_kabuli_chr06	12957689	CC	AA	1946862204
SNP_P4_81045_12957998	NC_021165.1	Ca_kabuli_chr06	12957998	CC	GG	1946862206
SNP_P4_81046_12958186	NC_021165.1	Ca_kabuli_chr06	12958186	CC	AA	1946862208
SNP_P4_81048_12958324	NC_021165.1	Ca_kabuli_chr06	12958324	TT	GG	1946862210
SNP_P4_81051_12958461	NC_021165.1	Ca_kabuli_chr06	12958461	GG	TT	1946862212
SNP_P4_81053_12959314	NC_021165.1	Ca_kabuli_chr06	12959314	AA	GG	1946862214
SNP_P4_81056_12964457	NC_021165.1	Ca_kabuli_chr06	12964457	GG	AA	1946862216
SNP_P4_81057_12964866	NC_021165.1	Ca_kabuli_chr06	12964866	AA	GG	1946862218
SNP_P4_81059_12964960	NC_021165.1	Ca_kabuli_chr06	12964960	TT	AA	1946862220
SNP_P4_81060_12965016	NC_021165.1	Ca_kabuli_chr06	12965016	CC	TT	1946862222
SNP_P4_81061_12965225	NC_021165.1	Ca_kabuli_chr06	12965225	TT	AA	1946862224
SNP_P4_81062_12965272	NC_021165.1	Ca_kabuli_chr06	12965272	AA	GG	1946862226
SNP_P4_81063_12965285	NC_021165.1	Ca_kabuli_chr06	12965285	AA	GG	1946862228
SNP_P4_81064_12965335	NC_021165.1	Ca_kabuli_chr06	12965335	CC	TT	1946862230
SNP_P4_81066_12966061	NC_021165.1	Ca_kabuli_chr06	12966061	TT	CC	1946862232
SNP_P4_81067_12966243	NC_021165.1	Ca_kabuli_chr06	12966243	CC	TT	1946862234
SNP_P4_81068_12966285	NC_021165.1	Ca_kabuli_chr06	12966285	AA	TT	1946862236
SNP_P4_81069_12966286	NC_021165.1	Ca_kabuli_chr06	12966286	AA	GG	1946862238
SNP_P4_81070_12966287	NC_021165.1	Ca_kabuli_chr06	12966287	AA	TT	1946862240
SNP_P4_81071_12966288	NC_021165.1	Ca_kabuli_chr06	12966288	AA	TT	1946862242

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_81073_12966292	NC_021165.1	Ca_kabuli_chr06	12966292	CC	TT	1946862246
SNP_P4_81074_12966295	NC_021165.1	Ca_kabuli_chr06	12966295	GG	TT	1946862248
SNP_P4_81075_12966298	NC_021165.1	Ca_kabuli_chr06	12966298	CC	TT	1946862250
SNP_P4_81076_12966306	NC_021165.1	Ca_kabuli_chr06	12966306	TT	CC	1946862252
SNP_P4_81077_12966563	NC_021165.1	Ca_kabuli_chr06	12966563	AA	GG	1946862254
SNP_P4_81078_12967057	NC_021165.1	Ca_kabuli_chr06	12967057	GG	CC	1946862256
SNP_P4_81080_12967149	NC_021165.1	Ca_kabuli_chr06	12967149	GG	AA	1946862258
SNP_P4_81081_12967412	NC_021165.1	Ca_kabuli_chr06	12967412	AA	GG	1946862260
SNP_P4_81082_12967494	NC_021165.1	Ca_kabuli_chr06	12967494	GG	AA	1946862262
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SNP_P4_81084_12967783	NC_021165.1	Ca_kabuli_chr06	12967783	AA	GG	1946862266
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SNP_P4_81087_12970216	NC_021165.1	Ca_kabuli_chr06	12970216	CC	AA	1946862270
SNP_P4_81088_12970270	NC_021165.1	Ca_kabuli_chr06	12970270	AA	CC	1946862272
SNP_P4_81089_12970275	NC_021165.1	Ca_kabuli_chr06	12970275	TT	GG	1946862274
SNP_P4_81091_12970474	NC_021165.1	Ca_kabuli_chr06	12970474	TT	CC	1946862276
SNP_P4_81092_12972137	NC_021165.1	Ca_kabuli_chr06	12972137	CC	AA	1946862278
SNP_P4_81093_12973198	NC_021165.1	Ca_kabuli_chr06	12973198	TT	CC	1946862280
SNP_P4_81094_12977741	NC_021165.1	Ca_kabuli_chr06	12977741	AA	CC	1946862281
SNP_P4_81095_12977856	NC_021165.1	Ca_kabuli_chr06	12977856	AA	TT	1946862283
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SNP_P4_81099_12977919	NC_021165.1	Ca_kabuli_chr06	12977919	AA	TT	1946862292
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SNP_P4_81101_12979484	NC_021165.1	Ca_kabuli_chr06	12979484	AA	GG	1946862296
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SNP_P4_81103_12980466	NC_021165.1	Ca_kabuli_chr06	12980466	GG	AA	1946862300
SNP_P4_81104_12980726	NC_021165.1	Ca_kabuli_chr06	12980726	TT	AA	1946862302
SNP_P4_81107_12989162	NC_021165.1	Ca_kabuli_chr06	12989162	TT	CC	1946862304
SNP_P4_81109_12994031	NC_021165.1	Ca_kabuli_chr06	12994031	CC	TT	1946862305
SNP_P4_81111_12999186	NC_021165.1	Ca_kabuli_chr06	12999186	TT	AA	1946862307
SNP_P4_81112_12999855	NC_021165.1	Ca_kabuli_chr06	12999855	CC	TT	1946862309
SNP_P4_81114_13002193	NC_021165.1	Ca_kabuli_chr06	13002193	GG	AA	1946862311
SNP_P4_81115_13002210	NC_021165.1	Ca_kabuli_chr06	13002210	CC	TT	1946862313
SNP_P4_81116_13002219	NC_021165.1	Ca_kabuli_chr06	13002219	AA	GG	1946862315
SNP_P4_81118_13006691	NC_021165.1	Ca_kabuli_chr06	13006691	CC	GG	1946862318
SNP_P4_81119_13007473	NC_021165.1	Ca_kabuli_chr06	13007473	AA	TT	1946862320
SNP_P4_81120_13014451	NC_021165.1	Ca_kabuli_chr06	13014451	TT	CC	1946862322
SNP_P4_81121_13016256	NC_021165.1	Ca_kabuli_chr06	13016256	CC	AA	1946862324
SNP_P4_81122_13016486	NC_021165.1	Ca_kabuli_chr06	13016486	CC	TT	1946862326

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_81125_13025128	NC_021165.1	Ca_kabuli_chr06	13025128	AA	GG	1946862330
SNP_P4_81126_13025137	NC_021165.1	Ca_kabuli_chr06	13025137	AA	GG	1946862332
SNP_P4_81127_13025452	NC_021165.1	Ca_kabuli_chr06	13025452	GG	AA	1946862334
SNP_P4_81128_13029297	NC_021165.1	Ca_kabuli_chr06	13029297	CC	TT	1946862336
SNP_P4_81129_13031677	NC_021165.1	Ca_kabuli_chr06	13031677	TT	CC	1946862338
SNP_P4_81130_13033270	NC_021165.1	Ca_kabuli_chr06	13033270	CC	TT	1946862340
SNP_P4_81131_13033364	NC_021165.1	Ca_kabuli_chr06	13033364	TT	CC	1946862342
SNP_P4_81133_13033578	NC_021165.1	Ca_kabuli_chr06	13033578	GG	AA	1946862344
SNP_P4_81134_13033686	NC_021165.1	Ca_kabuli_chr06	13033686	CC	TT	1946862346
SNP_P4_81135_13036318	NC_021165.1	Ca_kabuli_chr06	13036318	TT	CC	1946862348
SNP_P4_81136_13038549	NC_021165.1	Ca_kabuli_chr06	13038549	AA	TT	1946862350
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SNP_P4_81138_13043090	NC_021165.1	Ca_kabuli_chr06	13043090	CC	TT	1946862354
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SNP_P4_81140_13052739	NC_021165.1	Ca_kabuli_chr06	13052739	TT	AA	1946862358
SNP_P4_81141_13053122	NC_021165.1	Ca_kabuli_chr06	13053122	CC	GG	1946862360
SNP_P4_81144_13128503	NC_021165.1	Ca_kabuli_chr06	13128503	GG	AA	1946862362
SNP_P4_81146_13131131	NC_021165.1	Ca_kabuli_chr06	13131131	TT	GG	1946862364
SNP_P4_81147_13136955	NC_021165.1	Ca_kabuli_chr06	13136955	AA	GG	1946862366
SNP_P4_81148_13154970	NC_021165.1	Ca_kabuli_chr06	13154970	TT	CC	1946862368
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SNP_P4_81153_13246342	NC_021165.1	Ca_kabuli_chr06	13246342	GG	AA	1946862372
SNP_P4_81154_13247770	NC_021165.1	Ca_kabuli_chr06	13247770	TT	AA	1946862374
SNP_P4_81155_13262265	NC_021165.1	Ca_kabuli_chr06	13262265	TT	GG	1946862376
SNP_P4_81157_13282130	NC_021165.1	Ca_kabuli_chr06	13282130	TT	CC	1946862378
SNP_P4_81158_13285928	NC_021165.1	Ca_kabuli_chr06	13285928	AA	TT	1946862380
SNP_P4_81159_13285953	NC_021165.1	Ca_kabuli_chr06	13285953	AA	CC	1946862382
SNP_P4_81160_13324228	NC_021165.1	Ca_kabuli_chr06	13324228	AA	GG	1946862384
SNP_P4_81161_13326910	NC_021165.1	Ca_kabuli_chr06	13326910	CC	AA	1946862386
SNP_P4_81163_13393243	NC_021165.1	Ca_kabuli_chr06	13393243	TT	CC	1946862388
SNP_P4_81164_13393326	NC_021165.1	Ca_kabuli_chr06	13393326	TT	AA	1946862390
SNP_P4_81165_13393368	NC_021165.1	Ca_kabuli_chr06	13393368	TT	CC	1946862392
SNP_P4_81166_13393414	NC_021165.1	Ca_kabuli_chr06	13393414	AA	CC	1946862394
SNP_P4_81167_13393428	NC_021165.1	Ca_kabuli_chr06	13393428	AA	GG	1946862396
SNP_P4_81168_13393452	NC_021165.1	Ca_kabuli_chr06	13393452	TT	AA	1946862398
SNP_P4_81169_13393678	NC_021165.1	Ca_kabuli_chr06	13393678	TT	CC	1946862400
SNP_P4_81170_13411326	NC_021165.1	Ca_kabuli_chr06	13411326	TT	CC	1946862402
SNP_P4_81171_13416643	NC_021165.1	Ca_kabuli_chr06	13416643	CC	GG	1946862404
SNP_P4_81172_13416653	NC_021165.1	Ca_kabuli_chr06	13416653	CC	TT	1946862406
SNP_P4_81173_13416947	NC_021165.1	Ca_kabuli_chr06	13416947	GG	AA	1946862408
SNP_P4_81174_13416976	NC_021165.1	Ca_kabuli_chr06	13416976	AA	CC	1946862410

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_81176_13436503	NC_021165.1	Ca_kabuli_chr06	13436503	CC	AA	1946862414
SNP_P4_81177_13436529	NC_021165.1	Ca_kabuli_chr06	13436529	GG	AA	1946862416
SNP_P4_81178_13437095	NC_021165.1	Ca_kabuli_chr06	13437095	GG	AA	1946862418
SNP_P4_81181_13451253	NC_021165.1	Ca_kabuli_chr06	13451253	GG	TT	1946862420
SNP_P4_81182_13468153	NC_021165.1	Ca_kabuli_chr06	13468153	GG	CC	1946862422
SNP_P4_81183_13468160	NC_021165.1	Ca_kabuli_chr06	13468160	GG	AA	1946862424
SNP_P4_81184_13468169	NC_021165.1	Ca_kabuli_chr06	13468169	TT	CC	1946862426
SNP_P4_81185_13468187	NC_021165.1	Ca_kabuli_chr06	13468187	CC	TT	1946862428
SNP_P4_81187_13469900	NC_021165.1	Ca_kabuli_chr06	13469900	GG	AA	1946862430
SNP_P4_81188_13470558	NC_021165.1	Ca_kabuli_chr06	13470558	GG	AA	1946862432
SNP_P4_81189_13470560	NC_021165.1	Ca_kabuli_chr06	13470560	AA	GG	1946862434
SNP_P4_81191_13533952	NC_021165.1	Ca_kabuli_chr06	13533952	TT	CC	1946862436
SNP_P4_81193_13560671	NC_021165.1	Ca_kabuli_chr06	13560671	AA	GG	1946862438
SNP_P4_81194_13560675	NC_021165.1	Ca_kabuli_chr06	13560675	GG	AA	1946862440
SNP_P4_81196_13626535	NC_021165.1	Ca_kabuli_chr06	13626535	AA	TT	1946862442
SNP_P4_81197_13626570	NC_021165.1	Ca_kabuli_chr06	13626570	CC	AA	1946862444
SNP_P4_81199_13674889	NC_021165.1	Ca_kabuli_chr06	13674889	GG	CC	1946862446
SNP_P4_81200_13686263	NC_021165.1	Ca_kabuli_chr06	13686263	GG	AA	1946862448
SNP_P4_81201_13738508	NC_021165.1	Ca_kabuli_chr06	13738508	AA	CC	1946862450
SNP_P4_81202_13738514	NC_021165.1	Ca_kabuli_chr06	13738514	TT	CC	1946862452
SNP_P4_81203_13767104	NC_021165.1	Ca_kabuli_chr06	13767104	GG	AA	1946862454
SNP_P4_81204_13767110	NC_021165.1	Ca_kabuli_chr06	13767110	CC	AA	1946862456
SNP_P4_81205_13767117	NC_021165.1	Ca_kabuli_chr06	13767117	CC	AA	1946862459
SNP_P4_81206_13782083	NC_021165.1	Ca_kabuli_chr06	13782083	CC	TT	1946862461
SNP_P4_81207_13782732	NC_021165.1	Ca_kabuli_chr06	13782732	AA	GG	1946862463
SNP_P4_81208_13825462	NC_021165.1	Ca_kabuli_chr06	13825462	TT	AA	1946862465
SNP_P4_81210_13839308	NC_021165.1	Ca_kabuli_chr06	13839308	AA	GG	1946862467
SNP_P4_81211_13856123	NC_021165.1	Ca_kabuli_chr06	13856123	AA	GG	1946862469
SNP_P4_81212_13856382	NC_021165.1	Ca_kabuli_chr06	13856382	TT	CC	1946862471
SNP_P4_81213_13959895	NC_021165.1	Ca_kabuli_chr06	13959895	TT	CC	1946862473
SNP_P4_81215_13962777	NC_021165.1	Ca_kabuli_chr06	13962777	AA	CC	1946862475
SNP_P4_81216_13962779	NC_021165.1	Ca_kabuli_chr06	13962779	TT	CC	1946862477
SNP_P4_81219_14049316	NC_021165.1	Ca_kabuli_chr06	14049316	CC	GG	1946862479
SNP_P4_81220_14049333	NC_021165.1	Ca_kabuli_chr06	14049333	CC	GG	1946862481
SNP_P4_81221_14049334	NC_021165.1	Ca_kabuli_chr06	14049334	AA	GG	1946862483
SNP_P4_81222_14064489	NC_021165.1	Ca_kabuli_chr06	14064489	CC	TT	1946862485
SNP_P4_81223_14064582	NC_021165.1	Ca_kabuli_chr06	14064582	CC	AA	1946862487
SNP_P4_81224_14064686	NC_021165.1	Ca_kabuli_chr06	14064686	CC	TT	1946862489
SNP_P4_81225_14064700	NC_021165.1	Ca_kabuli_chr06	14064700	TT	CC	1946862491
SNP_P4_81226_14064951	NC_021165.1	Ca_kabuli_chr06	14064951	TT	CC	1946862493
SNP_P4_81227_14065088	NC_021165.1	Ca_kabuli_chr06	14065088	TT	CC	1946862495

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_81229_14084090	NC_021165.1	Ca_kabuli_chr06	14084090	TT	CC	1946862499
SNP_P4_81230_14084119	NC_021165.1	Ca_kabuli_chr06	14084119	GG	AA	1946862501
SNP_P4_81231_14084131	NC_021165.1	Ca_kabuli_chr06	14084131	AA	CC	1946862503
SNP_P4_81232_14105408	NC_021165.1	Ca_kabuli_chr06	14105408	GG	AA	1946862505
SNP_P4_81234_14170010	NC_021165.1	Ca_kabuli_chr06	14170010	TT	CC	1946862507
SNP_P4_81236_14190235	NC_021165.1	Ca_kabuli_chr06	14190235	TT	AA	1946862509
SNP_P4_81240_14274669	NC_021165.1	Ca_kabuli_chr06	14274669	TT	AA	1946862511
SNP_P4_81241_14276471	NC_021165.1	Ca_kabuli_chr06	14276471	GG	AA	1946862513
SNP_P4_81242_14278734	NC_021165.1	Ca_kabuli_chr06	14278734	GG	AA	1946862515
SNP_P4_81243_14278757	NC_021165.1	Ca_kabuli_chr06	14278757	GG	CC	1946862517
SNP_P4_81244_14279406	NC_021165.1	Ca_kabuli_chr06	14279406	TT	CC	1946862519
SNP_P4_81245_14279410	NC_021165.1	Ca_kabuli_chr06	14279410	GG	TT	1946862521
SNP_P4_81246_14297845	NC_021165.1	Ca_kabuli_chr06	14297845	AA	GG	1946862523
SNP_P4_81247_14297846	NC_021165.1	Ca_kabuli_chr06	14297846	AA	TT	1946862525
SNP_P4_81248_14313103	NC_021165.1	Ca_kabuli_chr06	14313103	AA	GG	1946862527
SNP_P4_81249_14313107	NC_021165.1	Ca_kabuli_chr06	14313107	TT	CC	1946862529
SNP_P4_81250_14338188	NC_021165.1	Ca_kabuli_chr06	14338188	AA	TT	1946862531
SNP_P4_81251_14338189	NC_021165.1	Ca_kabuli_chr06	14338189	TT	GG	1946862533
SNP_P4_81252_14345264	NC_021165.1	Ca_kabuli_chr06	14345264	GG	TT	1946862535
SNP_P4_81253_14351359	NC_021165.1	Ca_kabuli_chr06	14351359	GG	AA	1946862537
SNP_P4_81254_14351734	NC_021165.1	Ca_kabuli_chr06	14351734	GG	TT	1946862539
SNP_P4_81255_14351744	NC_021165.1	Ca_kabuli_chr06	14351744	AA	GG	1946862541
SNP_P4_81256_14389720	NC_021165.1	Ca_kabuli_chr06	14389720	TT	AA	1946862543
SNP_P4_81257_14398175	NC_021165.1	Ca_kabuli_chr06	14398175	CC	TT	1946862545
SNP_P4_81259_14410793	NC_021165.1	Ca_kabuli_chr06	14410793	TT	CC	1946862547
SNP_P4_81260_14410798	NC_021165.1	Ca_kabuli_chr06	14410798	AA	GG	1946862549
SNP_P4_81261_14410804	NC_021165.1	Ca_kabuli_chr06	14410804	TT	AA	1946862551
SNP_P4_81262_14410805	NC_021165.1	Ca_kabuli_chr06	14410805	TT	AA	1946862553
SNP_P4_81263_14429848	NC_021165.1	Ca_kabuli_chr06	14429848	GG	AA	1946862555
SNP_P4_81264_14452356	NC_021165.1	Ca_kabuli_chr06	14452356	CC	AA	1946862557
SNP_P4_81265_14455897	NC_021165.1	Ca_kabuli_chr06	14455897	GG	AA	1946862559
SNP_P4_81266_14456106	NC_021165.1	Ca_kabuli_chr06	14456106	GG	TT	1946862561
SNP_P4_81267_14456117	NC_021165.1	Ca_kabuli_chr06	14456117	CC	AA	1946862563
SNP_P4_81268_14456128	NC_021165.1	Ca_kabuli_chr06	14456128	TT	GG	1946862565
SNP_P4_81269_14456131	NC_021165.1	Ca_kabuli_chr06	14456131	GG	AA	1946862567
SNP_P4_81270_14456179	NC_021165.1	Ca_kabuli_chr06	14456179	CC	TT	1946862569
SNP_P4_81271_14456182	NC_021165.1	Ca_kabuli_chr06	14456182	GG	AA	1946862571
SNP_P4_81272_14456188	NC_021165.1	Ca_kabuli_chr06	14456188	AA	GG	1946862573
SNP_P4_81273_14470388	NC_021165.1	Ca_kabuli_chr06	14470388	CC	TT	1946862575
SNP_P4_81274_14470415	NC_021165.1	Ca_kabuli_chr06	14470415	CC	TT	1946862577
SNP_P4_81275_14471059	NC_021165.1	Ca_kabuli_chr06	14471059	GG	AA	1946862579

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_81279_14553248	NC_021165.1	Ca_kabuli_chr06	14553248	GG	TT	1946862585
SNP_P4_81280_14553476	NC_021165.1	Ca_kabuli_chr06	14553476	AA	TT	1946862587
SNP_P4_81281_14553477	NC_021165.1	Ca_kabuli_chr06	14553477	TT	AA	1946862589
SNP_P4_81283_14553671	NC_021165.1	Ca_kabuli_chr06	14553671	AA	GG	1946862591
SNP_P4_81284_14554090	NC_021165.1	Ca_kabuli_chr06	14554090	CC	TT	1946862593
SNP_P4_81285_14554109	NC_021165.1	Ca_kabuli_chr06	14554109	TT	GG	1946862595
SNP_P4_81286_14584096	NC_021165.1	Ca_kabuli_chr06	14584096	TT	AA	1946862597
SNP_P4_81287_14599516	NC_021165.1	Ca_kabuli_chr06	14599516	GG	CC	1946862599
SNP_P4_81288_14599786	NC_021165.1	Ca_kabuli_chr06	14599786	TT	GG	1946862601
SNP_P4_81289_14633003	NC_021165.1	Ca_kabuli_chr06	14633003	TT	CC	1946862603
SNP_P4_81290_14641832	NC_021165.1	Ca_kabuli_chr06	14641832	CC	TT	1946862605
SNP_P4_81293_14715124	NC_021165.1	Ca_kabuli_chr06	14715124	GG	AA	1946862607
SNP_P4_81294_14743747	NC_021165.1	Ca_kabuli_chr06	14743747	TT	CC	1946862609
SNP_P4_81295_14754671	NC_021165.1	Ca_kabuli_chr06	14754671	AA	GG	1946862611
SNP_P4_81296_14754677	NC_021165.1	Ca_kabuli_chr06	14754677	GG	AA	1946862613
SNP_P4_81297_14755095	NC_021165.1	Ca_kabuli_chr06	14755095	CC	TT	1946862615
SNP_P4_81298_14755507	NC_021165.1	Ca_kabuli_chr06	14755507	AA	TT	1946862617
SNP_P4_81300_14792511	NC_021165.1	Ca_kabuli_chr06	14792511	GG	AA	1946862619
SNP_P4_81301_14804017	NC_021165.1	Ca_kabuli_chr06	14804017	TT	CC	1946862621
SNP_P4_81302_14839768	NC_021165.1	Ca_kabuli_chr06	14839768	AA	GG	1946862623
SNP_P4_81303_14864886	NC_021165.1	Ca_kabuli_chr06	14864886	TT	CC	1946862625
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SNP_P4_81309_14936143	NC_021165.1	Ca_kabuli_chr06	14936143	CC	AA	1946862635
SNP_P4_81312_15046540	NC_021165.1	Ca_kabuli_chr06	15046540	AA	CC	1946862637
SNP_P4_81313_15046556	NC_021165.1	Ca_kabuli_chr06	15046556	TT	CC	1946862639
SNP_P4_81314_15054729	NC_021165.1	Ca_kabuli_chr06	15054729	AA	GG	1946862641
SNP_P4_81316_15078032	NC_021165.1	Ca_kabuli_chr06	15078032	AA	CC	1946862643
SNP_P4_81317_15080363	NC_021165.1	Ca_kabuli_chr06	15080363	TT	GG	1946862645
SNP_P4_81318_15080591	NC_021165.1	Ca_kabuli_chr06	15080591	CC	AA	1946862647
SNP_P4_81319_15080732	NC_021165.1	Ca_kabuli_chr06	15080732	AA	TT	1946862649
SNP_P4_81320_15083742	NC_021165.1	Ca_kabuli_chr06	15083742	AA	GG	1946862651
SNP_P4_81321_15083747	NC_021165.1	Ca_kabuli_chr06	15083747	GG	AA	1946862653
SNP_P4_81322_15083754	NC_021165.1	Ca_kabuli_chr06	15083754	TT	CC	1946862655
SNP_P4_81323_15083819	NC_021165.1	Ca_kabuli_chr06	15083819	TT	CC	1946862657
SNP_P4_81324_15083837	NC_021165.1	Ca_kabuli_chr06	15083837	TT	CC	1946862659
SNP_P4_81325_15083839	NC_021165.1	Ca_kabuli_chr06	15083839	TT	GG	1946862661
SNP_P4_81326_15083852	NC_021165.1	Ca_kabuli_chr06	15083852	CC	TT	1946862663

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_81328_15084070	NC_021165.1	Ca_kabuli_chr06	15084070	CC	TT	1946862667
SNP_P4_81329_15084188	NC_021165.1	Ca_kabuli_chr06	15084188	TT	AA	1946862669
SNP_P4_81331_15104243	NC_021165.1	Ca_kabuli_chr06	15104243	AA	TT	1946862671
SNP_P4_81332_15135218	NC_021165.1	Ca_kabuli_chr06	15135218	AA	TT	1946862673
SNP_P4_81333_15137552	NC_021165.1	Ca_kabuli_chr06	15137552	TT	AA	1946862675
SNP_P4_81334_15159915	NC_021165.1	Ca_kabuli_chr06	15159915	CC	TT	1946862677
SNP_P4_81335_15220078	NC_021165.1	Ca_kabuli_chr06	15220078	CC	AA	1946862679
SNP_P4_81336_15222827	NC_021165.1	Ca_kabuli_chr06	15222827	GG	AA	1946862681
SNP_P4_81337_15244672	NC_021165.1	Ca_kabuli_chr06	15244672	GG	AA	1946862683
SNP_P4_81338_15249566	NC_021165.1	Ca_kabuli_chr06	15249566	AA	TT	1946862685
SNP_P4_81339_15257652	NC_021165.1	Ca_kabuli_chr06	15257652	AA	GG	1946862687
SNP_P4_81340_15260175	NC_021165.1	Ca_kabuli_chr06	15260175	TT	CC	1946862689
SNP_P4_81341_15275926	NC_021165.1	Ca_kabuli_chr06	15275926	CC	GG	1946862691
SNP_P4_81343_15277709	NC_021165.1	Ca_kabuli_chr06	15277709	AA	CC	1946862693
SNP_P4_81344_15286803	NC_021165.1	Ca_kabuli_chr06	15286803	CC	AA	1946862695
SNP_P4_81345_15354006	NC_021165.1	Ca_kabuli_chr06	15354006	AA	CC	1946862697
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SNP_P4_81347_15390816	NC_021165.1	Ca_kabuli_chr06	15390816	AA	GG	1946862701
SNP_P4_81349_15415543	NC_021165.1	Ca_kabuli_chr06	15415543	CC	TT	1946862703
SNP_P4_81350_15417706	NC_021165.1	Ca_kabuli_chr06	15417706	TT	GG	1946862705
SNP_P4_81351_15425830	NC_021165.1	Ca_kabuli_chr06	15425830	AA	CC	1946862707
SNP_P4_81353_15453028	NC_021165.1	Ca_kabuli_chr06	15453028	AA	GG	1946862709
SNP_P4_81355_15495023	NC_021165.1	Ca_kabuli_chr06	15495023	AA	GG	1946862711
SNP_P4_81356_15495139	NC_021165.1	Ca_kabuli_chr06	15495139	AA	GG	1946862713
SNP_P4_81357_15495146	NC_021165.1	Ca_kabuli_chr06	15495146	GG	AA	1946862715
SNP_P4_81358_15501561	NC_021165.1	Ca_kabuli_chr06	15501561	AA	GG	1946862717
SNP_P4_81359_15505188	NC_021165.1	Ca_kabuli_chr06	15505188	TT	CC	1946862719
SNP_P4_81360_15508755	NC_021165.1	Ca_kabuli_chr06	15508755	AA	GG	1946862721
SNP_P4_81361_15508758	NC_021165.1	Ca_kabuli_chr06	15508758	AA	TT	1946862723
SNP_P4_81364_15528993	NC_021165.1	Ca_kabuli_chr06	15528993	CC	TT	1946862725
SNP_P4_81365_15554654	NC_021165.1	Ca_kabuli_chr06	15554654	CC	TT	1946862727
SNP_P4_81366_15555549	NC_021165.1	Ca_kabuli_chr06	15555549	GG	AA	1946862729
SNP_P4_81367_15555553	NC_021165.1	Ca_kabuli_chr06	15555553	TT	CC	1946862731
SNP_P4_81368_15555582	NC_021165.1	Ca_kabuli_chr06	15555582	TT	AA	1946862733
SNP_P4_81370_15555869	NC_021165.1	Ca_kabuli_chr06	15555869	AA	GG	1946862735
SNP_P4_81371_15559111	NC_021165.1	Ca_kabuli_chr06	15559111	AA	GG	1946862737
SNP_P4_81374_15559178	NC_021165.1	Ca_kabuli_chr06	15559178	CC	TT	1946862739
SNP_P4_81375_15559597	NC_021165.1	Ca_kabuli_chr06	15559597	AA	GG	1946862741
SNP_P4_81376_15562545	NC_021165.1	Ca_kabuli_chr06	15562545	TT	AA	1946862743
SNP_P4_81377_15562582	NC_021165.1	Ca_kabuli_chr06	15562582	TT	CC	1946862745
SNP_P4_81378_15562631	NC_021165.1	Ca_kabuli_chr06	15562631	GG	AA	1946862747

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_81379_15562660	NC_021165.1	Ca_kabuli_chr06	15562660	AA	GG	1946862749
SNP_P4_81380_15562679	NC_021165.1	Ca_kabuli_chr06	15562679	GG	AA	1946862751
SNP_P4_81381_15562687	NC_021165.1	Ca_kabuli_chr06	15562687	GG	TT	1946862753
SNP_P4_81382_15564181	NC_021165.1	Ca_kabuli_chr06	15564181	AA	GG	1946862755
SNP_P4_81383_15564356	NC_021165.1	Ca_kabuli_chr06	15564356	AA	CC	1946862757
SNP_P4_81384_15564407	NC_021165.1	Ca_kabuli_chr06	15564407	CC	TT	1946862759
SNP_P4_81385_15564424	NC_021165.1	Ca_kabuli_chr06	15564424	AA	GG	1946862761
SNP_P4_81386_15564439	NC_021165.1	Ca_kabuli_chr06	15564439	AA	GG	1946862763
SNP_P4_81387_15564494	NC_021165.1	Ca_kabuli_chr06	15564494	CC	AA	1946862765
SNP_P4_81388_15564537	NC_021165.1	Ca_kabuli_chr06	15564537	TT	CC	1946862767
SNP_P4_81389_15564552	NC_021165.1	Ca_kabuli_chr06	15564552	GG	TT	1946862769
SNP_P4_81390_15564557	NC_021165.1	Ca_kabuli_chr06	15564557	AA	TT	1946862771
SNP_P4_81391_15564562	NC_021165.1	Ca_kabuli_chr06	15564562	CC	TT	1946862773
SNP_P4_81392_15564607	NC_021165.1	Ca_kabuli_chr06	15564607	TT	CC	1946862775
SNP_P4_81393_15565467	NC_021165.1	Ca_kabuli_chr06	15565467	GG	TT	1946862777
SNP_P4_81394_15576998	NC_021165.1	Ca_kabuli_chr06	15576998	CC	AA	1946862779
SNP_P4_81395_15577376	NC_021165.1	Ca_kabuli_chr06	15577376	CC	AA	1946862781
SNP_P4_81396_15577400	NC_021165.1	Ca_kabuli_chr06	15577400	GG	AA	1946862783
SNP_P4_81397_15577423	NC_021165.1	Ca_kabuli_chr06	15577423	AA	GG	1946862785
SNP_P4_81398_15577434	NC_021165.1	Ca_kabuli_chr06	15577434	CC	AA	1946862787
SNP_P4_81399_15577439	NC_021165.1	Ca_kabuli_chr06	15577439	GG	AA	1946862789
SNP_P4_81400_15577789	NC_021165.1	Ca_kabuli_chr06	15577789	AA	GG	1946862791
SNP_P4_81401_15579902	NC_021165.1	Ca_kabuli_chr06	15579902	TT	CC	1946862793
SNP_P4_81402_15579949	NC_021165.1	Ca_kabuli_chr06	15579949	TT	AA	1946862795
SNP_P4_81403_15579950	NC_021165.1	Ca_kabuli_chr06	15579950	AA	GG	1946862797
SNP_P4_81404_15579951	NC_021165.1	Ca_kabuli_chr06	15579951	CC	TT	1946862799
SNP_P4_81405_15579985	NC_021165.1	Ca_kabuli_chr06	15579985	GG	TT	1946862801
SNP_P4_81406_15579988	NC_021165.1	Ca_kabuli_chr06	15579988	TT	CC	1946862803
SNP_P4_81407_15587204	NC_021165.1	Ca_kabuli_chr06	15587204	CC	TT	1946862805
SNP_P4_81409_15597921	NC_021165.1	Ca_kabuli_chr06	15597921	GG	AA	1946862807
SNP_P4_81410_15597960	NC_021165.1	Ca_kabuli_chr06	15597960	TT	AA	1946862809
SNP_P4_81412_15612607	NC_021165.1	Ca_kabuli_chr06	15612607	CC	GG	1946862811
SNP_P4_81413_15612666	NC_021165.1	Ca_kabuli_chr06	15612666	AA	CC	1946862813
SNP_P4_81414_15612690	NC_021165.1	Ca_kabuli_chr06	15612690	AA	GG	1946862815
SNP_P4_81415_15612757	NC_021165.1	Ca_kabuli_chr06	15612757	TT	CC	1946862817
SNP_P4_81416_15612920	NC_021165.1	Ca_kabuli_chr06	15612920	GG	AA	1946862819
SNP_P4_81417_15613045	NC_021165.1	Ca_kabuli_chr06	15613045	AA	CC	1946862821
SNP_P4_81418_15616037	NC_021165.1	Ca_kabuli_chr06	15616037	CC	AA	1946862823
SNP_P4_81419_15629498	NC_021165.1	Ca_kabuli_chr06	15629498	AA	GG	1946862825
SNP_P4_81420_15638649	NC_021165.1	Ca_kabuli_chr06	15638649	TT	AA	1946862827
SNP_P4_81421_15656888	NC_021165.1	Ca_kabuli_chr06	15656888	TT	CC	1946862829
SNP_P4_81422_15656908	NC_021165.1	Ca_kabuli_chr06	15656908	AA	TT	1946862831

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_81424_15657235	NC_021165.1	Ca_kabuli_chr06	15657235	AA	GG	1946862835
SNP_P4_81425_15657250	NC_021165.1	Ca_kabuli_chr06	15657250	TT	AA	1946862838
SNP_P4_81426_15657290	NC_021165.1	Ca_kabuli_chr06	15657290	AA	GG	1946862840
SNP_P4_81427_15659826	NC_021165.1	Ca_kabuli_chr06	15659826	AA	GG	1946862842
SNP_P4_81428_15680659	NC_021165.1	Ca_kabuli_chr06	15680659	AA	GG	1946862844
SNP_P4_81429_15680992	NC_021165.1	Ca_kabuli_chr06	15680992	AA	CC	1946862846
SNP_P4_81430_15681156	NC_021165.1	Ca_kabuli_chr06	15681156	GG	AA	1946862848
SNP_P4_81431_15715991	NC_021165.1	Ca_kabuli_chr06	15715991	GG	AA	1946862850
SNP_P4_81432_15726791	NC_021165.1	Ca_kabuli_chr06	15726791	GG	AA	1946862852
SNP_P4_81433_15726978	NC_021165.1	Ca_kabuli_chr06	15726978	GG	AA	1946862854
SNP_P4_81434_15727060	NC_021165.1	Ca_kabuli_chr06	15727060	CC	AA	1946862856
SNP_P4_81436_15727213	NC_021165.1	Ca_kabuli_chr06	15727213	AA	GG	1946862858
SNP_P4_81437_15727340	NC_021165.1	Ca_kabuli_chr06	15727340	TT	GG	1946862860
SNP_P4_81438_15727466	NC_021165.1	Ca_kabuli_chr06	15727466	GG	TT	1946862862
SNP_P4_81440_15727591	NC_021165.1	Ca_kabuli_chr06	15727591	TT	CC	1946862864
SNP_P4_81441_15727635	NC_021165.1	Ca_kabuli_chr06	15727635	GG	CC	1946862866
SNP_P4_81442_15727708	NC_021165.1	Ca_kabuli_chr06	15727708	CC	TT	1946862868
SNP_P4_81443_15727735	NC_021165.1	Ca_kabuli_chr06	15727735	CC	AA	1946862870
SNP_P4_81445_15729637	NC_021165.1	Ca_kabuli_chr06	15729637	TT	CC	1946862872
SNP_P4_81446_15730611	NC_021165.1	Ca_kabuli_chr06	15730611	TT	AA	1946862874
SNP_P4_81448_15730726	NC_021165.1	Ca_kabuli_chr06	15730726	GG	CC	1946862876
SNP_P4_81449_15730751	NC_021165.1	Ca_kabuli_chr06	15730751	TT	GG	1946862878
SNP_P4_81450_15730794	NC_021165.1	Ca_kabuli_chr06	15730794	CC	TT	1946862880
SNP_P4_81452_15730858	NC_021165.1	Ca_kabuli_chr06	15730858	AA	GG	1946862882
SNP_P4_81453_15730874	NC_021165.1	Ca_kabuli_chr06	15730874	CC	AA	1946862884
SNP_P4_81454_15730935	NC_021165.1	Ca_kabuli_chr06	15730935	AA	TT	1946862886
SNP_P4_81455_15730980	NC_021165.1	Ca_kabuli_chr06	15730980	AA	GG	1946862888
SNP_P4_81456_15731043	NC_021165.1	Ca_kabuli_chr06	15731043	TT	AA	1946862890
SNP_P4_81458_15731068	NC_021165.1	Ca_kabuli_chr06	15731068	AA	TT	1946862892
SNP_P4_81459_15731077	NC_021165.1	Ca_kabuli_chr06	15731077	CC	GG	1946862894
SNP_P4_81460_15731112	NC_021165.1	Ca_kabuli_chr06	15731112	CC	TT	1946862896
SNP_P4_81461_15731119	NC_021165.1	Ca_kabuli_chr06	15731119	CC	TT	1946862898
SNP_P4_81462_15731304	NC_021165.1	Ca_kabuli_chr06	15731304	GG	TT	1946862900
SNP_P4_81463_15731305	NC_021165.1	Ca_kabuli_chr06	15731305	GG	AA	1946862902
SNP_P4_81464_15731332	NC_021165.1	Ca_kabuli_chr06	15731332	CC	TT	1946862904
SNP_P4_81465_15731348	NC_021165.1	Ca_kabuli_chr06	15731348	GG	TT	1946862906
SNP_P4_81466_15731354	NC_021165.1	Ca_kabuli_chr06	15731354	CC	TT	1946862908
SNP_P4_81467_15731381	NC_021165.1	Ca_kabuli_chr06	15731381	TT	CC	1946862910
SNP_P4_81468_15731385	NC_021165.1	Ca_kabuli_chr06	15731385	CC	TT	1946862912
SNP_P4_81469_15733526	NC_021165.1	Ca_kabuli_chr06	15733526	CC	AA	1946862914
SNP_P4_81470_15733541	NC_021165.1	Ca_kabuli_chr06	15733541	GG	AA	1946862916

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_81472_15734639	NC_021165.1	Ca_kabuli_chr06	15734639	AA	CC	1946862920
SNP_P4_81473_15737804	NC_021165.1	Ca_kabuli_chr06	15737804	CC	TT	1946862922
SNP_P4_81474_15784012	NC_021165.1	Ca_kabuli_chr06	15784012	GG	TT	1946862924
SNP_P4_81476_15819390	NC_021165.1	Ca_kabuli_chr06	15819390	CC	TT	1946862926
SNP_P4_81477_15826128	NC_021165.1	Ca_kabuli_chr06	15826128	CC	AA	1946862928
SNP_P4_81478_15826129	NC_021165.1	Ca_kabuli_chr06	15826129	TT	GG	1946862930
SNP_P4_81479_15835854	NC_021165.1	Ca_kabuli_chr06	15835854	TT	GG	1946862932
SNP_P4_81480_15841256	NC_021165.1	Ca_kabuli_chr06	15841256	GG	AA	1946862934
SNP_P4_81481_15867441	NC_021165.1	Ca_kabuli_chr06	15867441	TT	CC	1946862936
SNP_P4_81484_15924552	NC_021165.1	Ca_kabuli_chr06	15924552	GG	TT	1946862938
SNP_P4_81485_15940280	NC_021165.1	Ca_kabuli_chr06	15940280	GG	AA	1946862940
SNP_P4_81486_15944754	NC_021165.1	Ca_kabuli_chr06	15944754	GG	AA	1946862942
SNP_P4_81488_15959860	NC_021165.1	Ca_kabuli_chr06	15959860	TT	AA	1946862944
SNP_P4_81490_15981667	NC_021165.1	Ca_kabuli_chr06	15981667	TT	AA	1946862946
SNP_P4_81491_15982024	NC_021165.1	Ca_kabuli_chr06	15982024	AA	TT	1946862948
SNP_P4_81492_15982085	NC_021165.1	Ca_kabuli_chr06	15982085	GG	CC	1946862950
SNP_P4_81493_15982347	NC_021165.1	Ca_kabuli_chr06	15982347	GG	TT	1946862952
SNP_P4_81494_15982536	NC_021165.1	Ca_kabuli_chr06	15982536	AA	TT	1946862954
SNP_P4_81495_15982754	NC_021165.1	Ca_kabuli_chr06	15982754	AA	GG	1946862956
SNP_P4_81496_15982761	NC_021165.1	Ca_kabuli_chr06	15982761	CC	TT	1946862958
SNP_P4_81497_15983221	NC_021165.1	Ca_kabuli_chr06	15983221	TT	CC	1946862960
SNP_P4_81498_15990710	NC_021165.1	Ca_kabuli_chr06	15990710	CC	TT	1946862962
SNP_P4_81499_15990801	NC_021165.1	Ca_kabuli_chr06	15990801	TT	CC	1946862965
SNP_P4_81500_15990804	NC_021165.1	Ca_kabuli_chr06	15990804	CC	TT	1946862967
SNP_P4_81501_15990884	NC_021165.1	Ca_kabuli_chr06	15990884	AA	TT	1946862969
SNP_P4_81502_15990958	NC_021165.1	Ca_kabuli_chr06	15990958	TT	CC	1946862971
SNP_P4_81503_15991143	NC_021165.1	Ca_kabuli_chr06	15991143	TT	GG	1946862973
SNP_P4_81504_15991147	NC_021165.1	Ca_kabuli_chr06	15991147	AA	GG	1946862975
SNP_P4_81505_15991154	NC_021165.1	Ca_kabuli_chr06	15991154	GG	CC	1946862977
SNP_P4_81506_15991177	NC_021165.1	Ca_kabuli_chr06	15991177	CC	TT	1946862979
SNP_P4_81507_15991239	NC_021165.1	Ca_kabuli_chr06	15991239	TT	CC	1946862981
SNP_P4_81508_15991354	NC_021165.1	Ca_kabuli_chr06	15991354	GG	CC	1946862983
SNP_P4_81509_15991357	NC_021165.1	Ca_kabuli_chr06	15991357	TT	GG	1946862985
SNP_P4_81510_15991762	NC_021165.1	Ca_kabuli_chr06	15991762	TT	GG	1946862987
SNP_P4_81511_15991775	NC_021165.1	Ca_kabuli_chr06	15991775	GG	AA	1946862989
SNP_P4_81512_15993095	NC_021165.1	Ca_kabuli_chr06	15993095	TT	GG	1946862991
SNP_P4_81513_15993358	NC_021165.1	Ca_kabuli_chr06	15993358	TT	CC	1946862993
SNP_P4_81514_15993473	NC_021165.1	Ca_kabuli_chr06	15993473	CC	AA	1946862995
SNP_P4_81515_15993526	NC_021165.1	Ca_kabuli_chr06	15993526	GG	AA	1946862997
SNP_P4_81516_15993746	NC_021165.1	Ca_kabuli_chr06	15993746	GG	CC	1946862999
SNP_P4_81518_15999992	NC_021165.1	Ca_kabuli_chr06	15999992	CC	AA	1946863001

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_81520_16000222	NC_021165.1	Ca_kabuli_chr06	16000222	TT	CC	1946863005
SNP_P4_81521_16000256	NC_021165.1	Ca_kabuli_chr06	16000256	TT	AA	1946863007
SNP_P4_81522_16000258	NC_021165.1	Ca_kabuli_chr06	16000258	GG	TT	1946863009
SNP_P4_81523_16010494	NC_021165.1	Ca_kabuli_chr06	16010494	TT	AA	1946863011
SNP_P4_81524_16010535	NC_021165.1	Ca_kabuli_chr06	16010535	AA	TT	1946863013
SNP_P4_81525_16010596	NC_021165.1	Ca_kabuli_chr06	16010596	TT	CC	1946863015
SNP_P4_81526_16010641	NC_021165.1	Ca_kabuli_chr06	16010641	GG	TT	1946863017
SNP_P4_81527_16010649	NC_021165.1	Ca_kabuli_chr06	16010649	TT	AA	1946863019
SNP_P4_81528_16010743	NC_021165.1	Ca_kabuli_chr06	16010743	AA	GG	1946863021
SNP_P4_81529_16010796	NC_021165.1	Ca_kabuli_chr06	16010796	AA	GG	1946863023
SNP_P4_81530_16010801	NC_021165.1	Ca_kabuli_chr06	16010801	GG	CC	1946863025
SNP_P4_81531_16010859	NC_021165.1	Ca_kabuli_chr06	16010859	CC	TT	1946863026
SNP_P4_81532_16010912	NC_021165.1	Ca_kabuli_chr06	16010912	TT	CC	1946863027
SNP_P4_81533_16010924	NC_021165.1	Ca_kabuli_chr06	16010924	TT	CC	1946863028
SNP_P4_81534_16011070	NC_021165.1	Ca_kabuli_chr06	16011070	TT	AA	1946863029
SNP_P4_81536_16013267	NC_021165.1	Ca_kabuli_chr06	16013267	AA	GG	1946863030
SNP_P4_81537_16013327	NC_021165.1	Ca_kabuli_chr06	16013327	AA	CC	1946863031
SNP_P4_81538_16013527	NC_021165.1	Ca_kabuli_chr06	16013527	TT	GG	1946863032
SNP_P4_81539_16013656	NC_021165.1	Ca_kabuli_chr06	16013656	AA	GG	1946863033
SNP_P4_81540_16013733	NC_021165.1	Ca_kabuli_chr06	16013733	AA	GG	1946863034
SNP_P4_81541_16013734	NC_021165.1	Ca_kabuli_chr06	16013734	AA	GG	1946863035
SNP_P4_81542_16013742	NC_021165.1	Ca_kabuli_chr06	16013742	GG	AA	1946863036
SNP_P4_81543_16018067	NC_021165.1	Ca_kabuli_chr06	16018067	CC	TT	1946863037
SNP_P4_81544_16018103	NC_021165.1	Ca_kabuli_chr06	16018103	GG	AA	1946863038
SNP_P4_81545_16018267	NC_021165.1	Ca_kabuli_chr06	16018267	GG	AA	1946863039
SNP_P4_81546_16018421	NC_021165.1	Ca_kabuli_chr06	16018421	CC	GG	1946863040
SNP_P4_81547_16018794	NC_021165.1	Ca_kabuli_chr06	16018794	TT	CC	1946863041
SNP_P4_81548_16019074	NC_021165.1	Ca_kabuli_chr06	16019074	TT	CC	1946863042
SNP_P4_81549_16019119	NC_021165.1	Ca_kabuli_chr06	16019119	TT	CC	1946863043
SNP_P4_81550_16019462	NC_021165.1	Ca_kabuli_chr06	16019462	CC	TT	1946863044
SNP_P4_81551_16019517	NC_021165.1	Ca_kabuli_chr06	16019517	TT	GG	1946863045
SNP_P4_81552_16019685	NC_021165.1	Ca_kabuli_chr06	16019685	AA	GG	1946863046
SNP_P4_81553_16019735	NC_021165.1	Ca_kabuli_chr06	16019735	TT	CC	1946863047
SNP_P4_81554_16019934	NC_021165.1	Ca_kabuli_chr06	16019934	CC	TT	1946863048
SNP_P4_81555_16020114	NC_021165.1	Ca_kabuli_chr06	16020114	GG	TT	1946863049
SNP_P4_81556_16020243	NC_021165.1	Ca_kabuli_chr06	16020243	AA	GG	1946863051
SNP_P4_81557_16020535	NC_021165.1	Ca_kabuli_chr06	16020535	GG	AA	1946863053
SNP_P4_81558_16027380	NC_021165.1	Ca_kabuli_chr06	16027380	AA	GG	1946863055
SNP_P4_81559_16027437	NC_021165.1	Ca_kabuli_chr06	16027437	TT	CC	1946863057
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SNP_P4_81561_16063301	NC_021165.1	Ca_kabuli_chr06	16063301	AA	CC	1946863061

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_81563_16063353	NC_021165.1	Ca_kabuli_chr06	16063353	CC	AA	1946863065
SNP_P4_81565_16063372	NC_021165.1	Ca_kabuli_chr06	16063372	GG	AA	1946863068
SNP_P4_81566_16075354	NC_021165.1	Ca_kabuli_chr06	16075354	CC	AA	1946863070
SNP_P4_81567_16079297	NC_021165.1	Ca_kabuli_chr06	16079297	CC	AA	1946863072
SNP_P4_81568_16087492	NC_021165.1	Ca_kabuli_chr06	16087492	CC	AA	1946863074
SNP_P4_81570_16098354	NC_021165.1	Ca_kabuli_chr06	16098354	TT	CC	1946863076
SNP_P4_81572_16137350	NC_021165.1	Ca_kabuli_chr06	16137350	GG	AA	1946863078
SNP_P4_81573_16143744	NC_021165.1	Ca_kabuli_chr06	16143744	CC	TT	1946863080
SNP_P4_81574_16166811	NC_021165.1	Ca_kabuli_chr06	16166811	GG	AA	1946863082
SNP_P4_81575_16181607	NC_021165.1	Ca_kabuli_chr06	16181607	TT	CC	1946863084
SNP_P4_81577_16222778	NC_021165.1	Ca_kabuli_chr06	16222778	GG	AA	1946863086
SNP_P4_81578_16246571	NC_021165.1	Ca_kabuli_chr06	16246571	AA	GG	1946863088
SNP_P4_81579_16246865	NC_021165.1	Ca_kabuli_chr06	16246865	TT	CC	1946863090
SNP_P4_81580_16246885	NC_021165.1	Ca_kabuli_chr06	16246885	AA	TT	1946863092
SNP_P4_81581_16246926	NC_021165.1	Ca_kabuli_chr06	16246926	TT	CC	1946863094
SNP_P4_81583_16259832	NC_021165.1	Ca_kabuli_chr06	16259832	CC	TT	1946863096
SNP_P4_81584_16261675	NC_021165.1	Ca_kabuli_chr06	16261675	TT	GG	1946863098
SNP_P4_81585_16271150	NC_021165.1	Ca_kabuli_chr06	16271150	AA	GG	1946863100
SNP_P4_81587_16341008	NC_021165.1	Ca_kabuli_chr06	16341008	GG	AA	1946863102
SNP_P4_81590_16409154	NC_021165.1	Ca_kabuli_chr06	16409154	TT	AA	1946863104
SNP_P4_81591_16414994	NC_021165.1	Ca_kabuli_chr06	16414994	GG	AA	1946863106
SNP_P4_81592_16425951	NC_021165.1	Ca_kabuli_chr06	16425951	TT	AA	1946863108
SNP_P4_81593_16425952	NC_021165.1	Ca_kabuli_chr06	16425952	CC	TT	1946863110
SNP_P4_81594_16425988	NC_021165.1	Ca_kabuli_chr06	16425988	CC	TT	1946863112
SNP_P4_81595_16425998	NC_021165.1	Ca_kabuli_chr06	16425998	CC	AA	1946863114
SNP_P4_81596_16426087	NC_021165.1	Ca_kabuli_chr06	16426087	GG	AA	1946863116
SNP_P4_81597_16426245	NC_021165.1	Ca_kabuli_chr06	16426245	AA	CC	1946863118
SNP_P4_81598_16426255	NC_021165.1	Ca_kabuli_chr06	16426255	CC	AA	1946863120
SNP_P4_81599_16426262	NC_021165.1	Ca_kabuli_chr06	16426262	GG	AA	1946863122
SNP_P4_81600_16426282	NC_021165.1	Ca_kabuli_chr06	16426282	AA	GG	1946863124
SNP_P4_81601_16426350	NC_021165.1	Ca_kabuli_chr06	16426350	AA	GG	1946863126
SNP_P4_81602_16428087	NC_021165.1	Ca_kabuli_chr06	16428087	CC	TT	1946863128
SNP_P4_81603_16428132	NC_021165.1	Ca_kabuli_chr06	16428132	AA	GG	1946863131
SNP_P4_81604_16428134	NC_021165.1	Ca_kabuli_chr06	16428134	AA	CC	1946863133
SNP_P4_81605_16428164	NC_021165.1	Ca_kabuli_chr06	16428164	AA	GG	1946863135
SNP_P4_81606_16428202	NC_021165.1	Ca_kabuli_chr06	16428202	TT	CC	1946863137
SNP_P4_81607_16428260	NC_021165.1	Ca_kabuli_chr06	16428260	CC	TT	1946863139
SNP_P4_81608_16428412	NC_021165.1	Ca_kabuli_chr06	16428412	TT	CC	1946863141
SNP_P4_81609_16428450	NC_021165.1	Ca_kabuli_chr06	16428450	TT	CC	1946863143
SNP_P4_81610_16428504	NC_021165.1	Ca_kabuli_chr06	16428504	GG	AA	1946863145
SNP_P4_81611_16428943	NC_021165.1	Ca_kabuli_chr06	16428943	AA	GG	1946863147

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_81614_16473011	NC_021165.1	Ca_kabuli_chr06	16473011	GG	AA	1946863153
SNP_P4_81615_16473012	NC_021165.1	Ca_kabuli_chr06	16473012	TT	GG	1946863155
SNP_P4_81616_16475172	NC_021165.1	Ca_kabuli_chr06	16475172	CC	GG	1946863156
SNP_P4_81617_16475417	NC_021165.1	Ca_kabuli_chr06	16475417	AA	GG	1946863158
SNP_P4_81618_16476550	NC_021165.1	Ca_kabuli_chr06	16476550	TT	CC	1946863160
SNP_P4_81619_16478139	NC_021165.1	Ca_kabuli_chr06	16478139	GG	TT	1946863162
SNP_P4_81620_16478140	NC_021165.1	Ca_kabuli_chr06	16478140	AA	TT	1946863164
SNP_P4_81622_16528497	NC_021165.1	Ca_kabuli_chr06	16528497	AA	TT	1946863166
SNP_P4_81623_16528615	NC_021165.1	Ca_kabuli_chr06	16528615	TT	AA	1946863168
SNP_P4_81624_16528670	NC_021165.1	Ca_kabuli_chr06	16528670	TT	AA	1946863170
SNP_P4_81625_16529317	NC_021165.1	Ca_kabuli_chr06	16529317	GG	TT	1946863172
SNP_P4_81626_16533507	NC_021165.1	Ca_kabuli_chr06	16533507	GG	CC	1946863174
SNP_P4_81630_16600012	NC_021165.1	Ca_kabuli_chr06	16600012	GG	AA	1946863176
SNP_P4_81631_16600116	NC_021165.1	Ca_kabuli_chr06	16600116	AA	CC	1946863178
SNP_P4_81632_16600321	NC_021165.1	Ca_kabuli_chr06	16600321	TT	CC	1946863180
SNP_P4_81633_16603610	NC_021165.1	Ca_kabuli_chr06	16603610	CC	TT	1946863182
SNP_P4_81634_16603879	NC_021165.1	Ca_kabuli_chr06	16603879	AA	TT	1946863184
SNP_P4_81635_16612039	NC_021165.1	Ca_kabuli_chr06	16612039	GG	AA	1946863186
SNP_P4_81636_16617719	NC_021165.1	Ca_kabuli_chr06	16617719	TT	CC	1946863188
SNP_P4_81637_16617725	NC_021165.1	Ca_kabuli_chr06	16617725	GG	AA	1946863190
SNP_P4_81638_16617737	NC_021165.1	Ca_kabuli_chr06	16617737	AA	CC	1946863192
SNP_P4_81639_16617738	NC_021165.1	Ca_kabuli_chr06	16617738	AA	TT	1946863194
SNP_P4_81641_16660294	NC_021165.1	Ca_kabuli_chr06	16660294	TT	CC	1946863196
SNP_P4_81642_16686453	NC_021165.1	Ca_kabuli_chr06	16686453	GG	AA	1946863198
SNP_P4_81645_16712277	NC_021165.1	Ca_kabuli_chr06	16712277	GG	AA	1946863200
SNP_P4_81646_16718268	NC_021165.1	Ca_kabuli_chr06	16718268	GG	AA	1946863202
SNP_P4_81647_16740945	NC_021165.1	Ca_kabuli_chr06	16740945	AA	TT	1946863204
SNP_P4_81648_16760227	NC_021165.1	Ca_kabuli_chr06	16760227	CC	TT	1946863206
SNP_P4_81649_16762106	NC_021165.1	Ca_kabuli_chr06	16762106	TT	GG	1946863208
SNP_P4_81650_16762133	NC_021165.1	Ca_kabuli_chr06	16762133	GG	AA	1946863210
SNP_P4_81651_16762150	NC_021165.1	Ca_kabuli_chr06	16762150	TT	GG	1946863212
SNP_P4_81653_16792830	NC_021165.1	Ca_kabuli_chr06	16792830	AA	GG	1946863214
SNP_P4_81654_16805517	NC_021165.1	Ca_kabuli_chr06	16805517	CC	AA	1946863216
SNP_P4_81655_16806908	NC_021165.1	Ca_kabuli_chr06	16806908	AA	TT	1946863218
SNP_P4_81656_16821715	NC_021165.1	Ca_kabuli_chr06	16821715	GG	TT	1946863220
SNP_P4_81657_16822011	NC_021165.1	Ca_kabuli_chr06	16822011	CC	TT	1946863222
SNP_P4_81658_16822025	NC_021165.1	Ca_kabuli_chr06	16822025	TT	AA	1946863224
SNP_P4_81659_16822042	NC_021165.1	Ca_kabuli_chr06	16822042	TT	CC	1946863226
SNP_P4_81660_16822056	NC_021165.1	Ca_kabuli_chr06	16822056	CC	TT	1946863228
SNP_P4_81661_16822245	NC_021165.1	Ca_kabuli_chr06	16822245	AA	GG	1946863230

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_81663_16822289	NC_021165.1	Ca_kabuli_chr06	16822289	CC	TT	1946863234
SNP_P4_81664_16822351	NC_021165.1	Ca_kabuli_chr06	16822351	AA	GG	1946863236
SNP_P4_81665_16822402	NC_021165.1	Ca_kabuli_chr06	16822402	TT	CC	1946863238
SNP_P4_81666_16822485	NC_021165.1	Ca_kabuli_chr06	16822485	AA	GG	1946863240
SNP_P4_81667_16825742	NC_021165.1	Ca_kabuli_chr06	16825742	GG	AA	1946863242
SNP_P4_81668_16827893	NC_021165.1	Ca_kabuli_chr06	16827893	AA	GG	1946863244
SNP_P4_81669_16827902	NC_021165.1	Ca_kabuli_chr06	16827902	TT	CC	1946863247
SNP_P4_81670_16828275	NC_021165.1	Ca_kabuli_chr06	16828275	TT	CC	1946863249
SNP_P4_81671_16833327	NC_021165.1	Ca_kabuli_chr06	16833327	CC	TT	1946863252
SNP_P4_81672_16853048	NC_021165.1	Ca_kabuli_chr06	16853048	TT	CC	1946863254
SNP_P4_81673_16867478	NC_021165.1	Ca_kabuli_chr06	16867478	AA	GG	1946863256
SNP_P4_81674_16868237	NC_021165.1	Ca_kabuli_chr06	16868237	GG	AA	1946863258
SNP_P4_81675_16877525	NC_021165.1	Ca_kabuli_chr06	16877525	TT	CC	1946863260
SNP_P4_81676_16878466	NC_021165.1	Ca_kabuli_chr06	16878466	GG	AA	1946863262
SNP_P4_81677_16881522	NC_021165.1	Ca_kabuli_chr06	16881522	TT	GG	1946863264
SNP_P4_81678_16904194	NC_021165.1	Ca_kabuli_chr06	16904194	TT	CC	1946863266
SNP_P4_81680_16917124	NC_021165.1	Ca_kabuli_chr06	16917124	AA	CC	1946863268
SNP_P4_81681_16920595	NC_021165.1	Ca_kabuli_chr06	16920595	AA	TT	1946863270
SNP_P4_81682_16931756	NC_021165.1	Ca_kabuli_chr06	16931756	CC	AA	1946863272
SNP_P4_81683_16942361	NC_021165.1	Ca_kabuli_chr06	16942361	AA	TT	1946863274
SNP_P4_81684_16942627	NC_021165.1	Ca_kabuli_chr06	16942627	AA	GG	1946863276
SNP_P4_81687_16962131	NC_021165.1	Ca_kabuli_chr06	16962131	AA	GG	1946863278
SNP_P4_81688_16962132	NC_021165.1	Ca_kabuli_chr06	16962132	CC	AA	1946863280
SNP_P4_81689_16962134	NC_021165.1	Ca_kabuli_chr06	16962134	AA	GG	1946863282
SNP_P4_81690_16983287	NC_021165.1	Ca_kabuli_chr06	16983287	CC	TT	1946863284
SNP_P4_81691_16983559	NC_021165.1	Ca_kabuli_chr06	16983559	AA	GG	1946863286
SNP_P4_81692_16983560	NC_021165.1	Ca_kabuli_chr06	16983560	CC	AA	1946863288
SNP_P4_81693_16983612	NC_021165.1	Ca_kabuli_chr06	16983612	TT	AA	1946863290
SNP_P4_81694_16987350	NC_021165.1	Ca_kabuli_chr06	16987350	GG	AA	1946863292
SNP_P4_81695_16991797	NC_021165.1	Ca_kabuli_chr06	16991797	CC	TT	1946863294
SNP_P4_81696_16994573	NC_021165.1	Ca_kabuli_chr06	16994573	CC	TT	1946863296
SNP_P4_81698_16995068	NC_021165.1	Ca_kabuli_chr06	16995068	TT	CC	1946863298
SNP_P4_81699_16995428	NC_021165.1	Ca_kabuli_chr06	16995428	AA	GG	1946863300
SNP_P4_81700_16995808	NC_021165.1	Ca_kabuli_chr06	16995808	CC	TT	1946863302
SNP_P4_81701_16996537	NC_021165.1	Ca_kabuli_chr06	16996537	AA	GG	1946863304
SNP_P4_81702_16998274	NC_021165.1	Ca_kabuli_chr06	16998274	TT	CC	1946863306
SNP_P4_81703_16998528	NC_021165.1	Ca_kabuli_chr06	16998528	AA	GG	1946863308
SNP_P4_81705_17012931	NC_021165.1	Ca_kabuli_chr06	17012931	CC	TT	1946863310
SNP_P4_81706_17014310	NC_021165.1	Ca_kabuli_chr06	17014310	TT	AA	1946863312
SNP_P4_81707_17018941	NC_021165.1	Ca_kabuli_chr06	17018941	CC	AA	1946863314
SNP_P4_81711_17033731	NC_021165.1	Ca_kabuli_chr06	17033731	AA	GG	1946863316

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_81713_17042020	NC_021165.1	Ca_kabuli_chr06	17042020	AA	TT	1946863320
SNP_P4_81714_17042226	NC_021165.1	Ca_kabuli_chr06	17042226	GG	AA	1946863322
SNP_P4_81716_17043858	NC_021165.1	Ca_kabuli_chr06	17043858	GG	TT	1946863324
SNP_P4_81718_17045320	NC_021165.1	Ca_kabuli_chr06	17045320	GG	AA	1946863326
SNP_P4_81719_17055998	NC_021165.1	Ca_kabuli_chr06	17055998	GG	AA	1946863328
SNP_P4_81720_17056370	NC_021165.1	Ca_kabuli_chr06	17056370	TT	CC	1946863330
SNP_P4_81721_17056572	NC_021165.1	Ca_kabuli_chr06	17056572	GG	AA	1946863332
SNP_P4_81722_17056589	NC_021165.1	Ca_kabuli_chr06	17056589	AA	TT	1946863334
SNP_P4_81723_17056624	NC_021165.1	Ca_kabuli_chr06	17056624	AA	CC	1946863336
SNP_P4_81724_17056708	NC_021165.1	Ca_kabuli_chr06	17056708	GG	CC	1946863338
SNP_P4_81725_17056747	NC_021165.1	Ca_kabuli_chr06	17056747	CC	AA	1946863340
SNP_P4_81726_17056945	NC_021165.1	Ca_kabuli_chr06	17056945	CC	TT	1946863342
SNP_P4_81727_17056989	NC_021165.1	Ca_kabuli_chr06	17056989	AA	GG	1946863344
SNP_P4_81730_17057216	NC_021165.1	Ca_kabuli_chr06	17057216	TT	CC	1946863346
SNP_P4_81731_17057620	NC_021165.1	Ca_kabuli_chr06	17057620	CC	TT	1946863348
SNP_P4_81732_17058377	NC_021165.1	Ca_kabuli_chr06	17058377	CC	TT	1946863350
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SNP_P4_81736_17059137	NC_021165.1	Ca_kabuli_chr06	17059137	AA	GG	1946863354
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SNP_P4_81738_17059319	NC_021165.1	Ca_kabuli_chr06	17059319	AA	TT	1946863358
SNP_P4_81739_17063645	NC_021165.1	Ca_kabuli_chr06	17063645	TT	AA	1946863360
SNP_P4_81741_17064221	NC_021165.1	Ca_kabuli_chr06	17064221	TT	CC	1946863362
SNP_P4_81742_17064265	NC_021165.1	Ca_kabuli_chr06	17064265	AA	CC	1946863364
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SNP_P4_81747_17065086	NC_021165.1	Ca_kabuli_chr06	17065086	GG	AA	1946863374
SNP_P4_81748_17065290	NC_021165.1	Ca_kabuli_chr06	17065290	GG	AA	1946863376
SNP_P4_81749_17065657	NC_021165.1	Ca_kabuli_chr06	17065657	GG	CC	1946863378
SNP_P4_81750_17067171	NC_021165.1	Ca_kabuli_chr06	17067171	AA	TT	1946863380
SNP_P4_81751_17067179	NC_021165.1	Ca_kabuli_chr06	17067179	TT	AA	1946863382
SNP_P4_81752_17067279	NC_021165.1	Ca_kabuli_chr06	17067279	AA	GG	1946863384
SNP_P4_81753_17068898	NC_021165.1	Ca_kabuli_chr06	17068898	GG	TT	1946863386
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SNP_P4_81755_17069735	NC_021165.1	Ca_kabuli_chr06	17069735	CC	TT	1946863390
SNP_P4_81756_17070121	NC_021165.1	Ca_kabuli_chr06	17070121	AA	GG	1946863392
SNP_P4_81757_17070135	NC_021165.1	Ca_kabuli_chr06	17070135	TT	CC	1946863394
SNP_P4_81758_17070244	NC_021165.1	Ca_kabuli_chr06	17070244	CC	TT	1946863396
SNP_P4_81759_17070268	NC_021165.1	Ca_kabuli_chr06	17070268	TT	CC	1946863398
SNP_P4_81760_17070296	NC_021165.1	Ca_kabuli_chr06	17070296	CC	TT	1946863400

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_81762_17070926	NC_021165.1	Ca_kabuli_chr06	17070926	TT	CC	1946863404
SNP_P4_81763_17072155	NC_021165.1	Ca_kabuli_chr06	17072155	CC	TT	1946863406
SNP_P4_81764_17072392	NC_021165.1	Ca_kabuli_chr06	17072392	CC	TT	1946863408
SNP_P4_81765_17072611	NC_021165.1	Ca_kabuli_chr06	17072611	CC	TT	1946863410
SNP_P4_81766_17072615	NC_021165.1	Ca_kabuli_chr06	17072615	TT	CC	1946863412
SNP_P4_81767_17072623	NC_021165.1	Ca_kabuli_chr06	17072623	AA	CC	1946863414
SNP_P4_81768_17072641	NC_021165.1	Ca_kabuli_chr06	17072641	AA	GG	1946863416
SNP_P4_81769_17072679	NC_021165.1	Ca_kabuli_chr06	17072679	AA	CC	1946863418
SNP_P4_81770_17072693	NC_021165.1	Ca_kabuli_chr06	17072693	AA	GG	1946863420
SNP_P4_81771_17072755	NC_021165.1	Ca_kabuli_chr06	17072755	GG	AA	1946863422
SNP_P4_81772_17072818	NC_021165.1	Ca_kabuli_chr06	17072818	CC	GG	1946863424
SNP_P4_81773_17073353	NC_021165.1	Ca_kabuli_chr06	17073353	GG	AA	1946863426
SNP_P4_81774_17075299	NC_021165.1	Ca_kabuli_chr06	17075299	AA	GG	1946863428
SNP_P4_81775_17075342	NC_021165.1	Ca_kabuli_chr06	17075342	TT	CC	1946863430
SNP_P4_81776_17075346	NC_021165.1	Ca_kabuli_chr06	17075346	TT	GG	1946863432
SNP_P4_81777_17075509	NC_021165.1	Ca_kabuli_chr06	17075509	CC	TT	1946863434
SNP_P4_81778_17075513	NC_021165.1	Ca_kabuli_chr06	17075513	GG	CC	1946863436
SNP_P4_81779_17075573	NC_021165.1	Ca_kabuli_chr06	17075573	TT	AA	1946863438
SNP_P4_81780_17075584	NC_021165.1	Ca_kabuli_chr06	17075584	CC	GG	1946863440
SNP_P4_81782_17076918	NC_021165.1	Ca_kabuli_chr06	17076918	AA	GG	1946863442
SNP_P4_81783_17077655	NC_021165.1	Ca_kabuli_chr06	17077655	GG	AA	1946863444
SNP_P4_81784_17077656	NC_021165.1	Ca_kabuli_chr06	17077656	AA	TT	1946863446
SNP_P4_81785_17083120	NC_021165.1	Ca_kabuli_chr06	17083120	CC	TT	1946863448
SNP_P4_81787_17083155	NC_021165.1	Ca_kabuli_chr06	17083155	TT	CC	1946863450
SNP_P4_81788_17083178	NC_021165.1	Ca_kabuli_chr06	17083178	AA	TT	1946863452
SNP_P4_81789_17083377	NC_021165.1	Ca_kabuli_chr06	17083377	AA	GG	1946863454
SNP_P4_81790_17084193	NC_021165.1	Ca_kabuli_chr06	17084193	CC	TT	1946863456
SNP_P4_81791_17084194	NC_021165.1	Ca_kabuli_chr06	17084194	TT	CC	1946863458
SNP_P4_81792_17084399	NC_021165.1	Ca_kabuli_chr06	17084399	TT	GG	1946863460
SNP_P4_81793_17084457	NC_021165.1	Ca_kabuli_chr06	17084457	GG	AA	1946863462
SNP_P4_81794_17084491	NC_021165.1	Ca_kabuli_chr06	17084491	GG	AA	1946863464
SNP_P4_81795_17084992	NC_021165.1	Ca_kabuli_chr06	17084992	GG	AA	1946863466
SNP_P4_81797_17085087	NC_021165.1	Ca_kabuli_chr06	17085087	TT	GG	1946863468
SNP_P4_81799_17085670	NC_021165.1	Ca_kabuli_chr06	17085670	AA	TT	1946863469
SNP_P4_81800_17085969	NC_021165.1	Ca_kabuli_chr06	17085969	TT	CC	1946863471
SNP_P4_81801_17086452	NC_021165.1	Ca_kabuli_chr06	17086452	GG	AA	1946863473
SNP_P4_81802_17087596	NC_021165.1	Ca_kabuli_chr06	17087596	CC	AA	1946863475
SNP_P4_81803_17087609	NC_021165.1	Ca_kabuli_chr06	17087609	CC	TT	1946863477
SNP_P4_81804_17087610	NC_021165.1	Ca_kabuli_chr06	17087610	CC	AA	1946863479
SNP_P4_81805_17087611	NC_021165.1	Ca_kabuli_chr06	17087611	GG	AA	1946863481
SNP_P4_81806_17087621	NC_021165.1	Ca_kabuli_chr06	17087621	AA	TT	1946863483

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_81808_17087777	NC_021165.1	Ca_kabuli_chr06	17087777	AA	GG	1946863487
SNP_P4_81809_17087977	NC_021165.1	Ca_kabuli_chr06	17087977	AA	GG	1946863490
SNP_P4_81811_17088823	NC_021165.1	Ca_kabuli_chr06	17088823	TT	AA	1946863492
SNP_P4_81812_17088848	NC_021165.1	Ca_kabuli_chr06	17088848	TT	AA	1946863494
SNP_P4_81814_17089609	NC_021165.1	Ca_kabuli_chr06	17089609	AA	GG	1946863496
SNP_P4_81815_17089626	NC_021165.1	Ca_kabuli_chr06	17089626	TT	CC	1946863498
SNP_P4_81817_17092155	NC_021165.1	Ca_kabuli_chr06	17092155	CC	GG	1946863500
SNP_P4_81818_17092636	NC_021165.1	Ca_kabuli_chr06	17092636	CC	TT	1946863502
SNP_P4_81819_17092638	NC_021165.1	Ca_kabuli_chr06	17092638	CC	TT	1946863504
SNP_P4_81820_17093260	NC_021165.1	Ca_kabuli_chr06	17093260	AA	GG	1946863506
SNP_P4_81821_17093541	NC_021165.1	Ca_kabuli_chr06	17093541	AA	TT	1946863508
SNP_P4_81822_17094188	NC_021165.1	Ca_kabuli_chr06	17094188	GG	AA	1946863510
SNP_P4_81824_17096214	NC_021165.1	Ca_kabuli_chr06	17096214	CC	TT	1946863512
SNP_P4_81825_17097289	NC_021165.1	Ca_kabuli_chr06	17097289	AA	GG	1946863514
SNP_P4_81826_17097314	NC_021165.1	Ca_kabuli_chr06	17097314	GG	AA	1946863516
SNP_P4_81827_17097349	NC_021165.1	Ca_kabuli_chr06	17097349	CC	GG	1946863518
SNP_P4_81828_17097385	NC_021165.1	Ca_kabuli_chr06	17097385	AA	TT	1946863520
SNP_P4_81829_17097405	NC_021165.1	Ca_kabuli_chr06	17097405	TT	AA	1946863522
SNP_P4_81830_17097450	NC_021165.1	Ca_kabuli_chr06	17097450	TT	GG	1946863524
SNP_P4_81831_17097491	NC_021165.1	Ca_kabuli_chr06	17097491	AA	GG	1946863526
SNP_P4_81833_17097559	NC_021165.1	Ca_kabuli_chr06	17097559	AA	GG	1946863528
SNP_P4_81834_17097561	NC_021165.1	Ca_kabuli_chr06	17097561	AA	GG	1946863530
SNP_P4_81835_17098511	NC_021165.1	Ca_kabuli_chr06	17098511	AA	GG	1946863532
SNP_P4_81836_17098540	NC_021165.1	Ca_kabuli_chr06	17098540	CC	TT	1946863534
SNP_P4_81837_17098562	NC_021165.1	Ca_kabuli_chr06	17098562	CC	TT	1946863536
SNP_P4_81838_17100912	NC_021165.1	Ca_kabuli_chr06	17100912	AA	TT	1946863538
SNP_P4_81839_17101122	NC_021165.1	Ca_kabuli_chr06	17101122	AA	GG	1946863540
SNP_P4_81840_17101146	NC_021165.1	Ca_kabuli_chr06	17101146	GG	AA	1946863542
SNP_P4_81842_17101299	NC_021165.1	Ca_kabuli_chr06	17101299	CC	TT	1946863544
SNP_P4_81843_17101307	NC_021165.1	Ca_kabuli_chr06	17101307	TT	CC	1946863546
SNP_P4_81844_17101346	NC_021165.1	Ca_kabuli_chr06	17101346	AA	GG	1946863548
SNP_P4_81845_17101373	NC_021165.1	Ca_kabuli_chr06	17101373	GG	CC	1946863550
SNP_P4_81846_17101426	NC_021165.1	Ca_kabuli_chr06	17101426	AA	TT	1946863552
SNP_P4_81847_17101579	NC_021165.1	Ca_kabuli_chr06	17101579	AA	GG	1946863553
SNP_P4_81849_17101904	NC_021165.1	Ca_kabuli_chr06	17101904	AA	GG	1946863555
SNP_P4_81850_17101930	NC_021165.1	Ca_kabuli_chr06	17101930	GG	AA	1946863557
SNP_P4_81851_17102000	NC_021165.1	Ca_kabuli_chr06	17102000	TT	AA	1946863559
SNP_P4_81852_17102018	NC_021165.1	Ca_kabuli_chr06	17102018	TT	CC	1946863561
SNP_P4_81854_17102061	NC_021165.1	Ca_kabuli_chr06	17102061	TT	CC	1946863563
SNP_P4_81855_17102283	NC_021165.1	Ca_kabuli_chr06	17102283	AA	GG	1946863565
SNP_P4_81856_17102315	NC_021165.1	Ca_kabuli_chr06	17102315	TT	CC	1946863567

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_81859_17103729	NC_021165.1	Ca_kabuli_chr06	17103729	AA	GG	1946863571
SNP_P4_81860_17103737	NC_021165.1	Ca_kabuli_chr06	17103737	AA	GG	1946863573
SNP_P4_81862_17103776	NC_021165.1	Ca_kabuli_chr06	17103776	AA	GG	1946863575
SNP_P4_81864_17104244	NC_021165.1	Ca_kabuli_chr06	17104244	CC	AA	1946863577
SNP_P4_81865_17104294	NC_021165.1	Ca_kabuli_chr06	17104294	AA	CC	1946863579
SNP_P4_81866_17104308	NC_021165.1	Ca_kabuli_chr06	17104308	GG	TT	1946863581
SNP_P4_81867_17104312	NC_021165.1	Ca_kabuli_chr06	17104312	AA	TT	1946863583
SNP_P4_81868_17104327	NC_021165.1	Ca_kabuli_chr06	17104327	TT	GG	1946863584
SNP_P4_81869_17104461	NC_021165.1	Ca_kabuli_chr06	17104461	CC	TT	1946863586
SNP_P4_81870_17104758	NC_021165.1	Ca_kabuli_chr06	17104758	GG	TT	1946863588
SNP_P4_81871_17104796	NC_021165.1	Ca_kabuli_chr06	17104796	GG	AA	1946863590
SNP_P4_81872_17105814	NC_021165.1	Ca_kabuli_chr06	17105814	AA	TT	1946863592
SNP_P4_81873_17106034	NC_021165.1	Ca_kabuli_chr06	17106034	TT	CC	1946863593
SNP_P4_81874_17106292	NC_021165.1	Ca_kabuli_chr06	17106292	CC	TT	1946863594
SNP_P4_81875_17108535	NC_021165.1	Ca_kabuli_chr06	17108535	TT	CC	1946863595
SNP_P4_81876_17109370	NC_021165.1	Ca_kabuli_chr06	17109370	AA	GG	1946863596
SNP_P4_81878_17110580	NC_021165.1	Ca_kabuli_chr06	17110580	CC	TT	1946863598
SNP_P4_81879_17110851	NC_021165.1	Ca_kabuli_chr06	17110851	AA	TT	1946863600
SNP_P4_81880_17111106	NC_021165.1	Ca_kabuli_chr06	17111106	TT	GG	1946863602
SNP_P4_81881_17111473	NC_021165.1	Ca_kabuli_chr06	17111473	GG	AA	1946863604
SNP_P4_81882_17111732	NC_021165.1	Ca_kabuli_chr06	17111732	TT	CC	1946863606
SNP_P4_81883_17113751	NC_021165.1	Ca_kabuli_chr06	17113751	TT	CC	1946863608
SNP_P4_81884_17114699	NC_021165.1	Ca_kabuli_chr06	17114699	AA	GG	1946863610
SNP_P4_81885_17114720	NC_021165.1	Ca_kabuli_chr06	17114720	CC	TT	1946863612
SNP_P4_81886_17115067	NC_021165.1	Ca_kabuli_chr06	17115067	TT	CC	1946863614
SNP_P4_81887_17116440	NC_021165.1	Ca_kabuli_chr06	17116440	AA	CC	1946863616
SNP_P4_81888_17116619	NC_021165.1	Ca_kabuli_chr06	17116619	TT	CC	1946863618
SNP_P4_81889_17116852	NC_021165.1	Ca_kabuli_chr06	17116852	GG	AA	1946863620
SNP_P4_81890_17117857	NC_021165.1	Ca_kabuli_chr06	17117857	AA	GG	1946863622
SNP_P4_81891_17119006	NC_021165.1	Ca_kabuli_chr06	17119006	CC	TT	1946863624
SNP_P4_81892_17119008	NC_021165.1	Ca_kabuli_chr06	17119008	TT	CC	1946863626
SNP_P4_81893_17119944	NC_021165.1	Ca_kabuli_chr06	17119944	CC	TT	1946863629
SNP_P4_81894_17123067	NC_021165.1	Ca_kabuli_chr06	17123067	TT	AA	1946863631
SNP_P4_81895_17125738	NC_021165.1	Ca_kabuli_chr06	17125738	AA	GG	1946863633
SNP_P4_81896_17125865	NC_021165.1	Ca_kabuli_chr06	17125865	AA	GG	1946863635
SNP_P4_81897_17125871	NC_021165.1	Ca_kabuli_chr06	17125871	CC	TT	1946863637
SNP_P4_81898_17125874	NC_021165.1	Ca_kabuli_chr06	17125874	GG	AA	1946863639
SNP_P4_81899_17125977	NC_021165.1	Ca_kabuli_chr06	17125977	CC	TT	1946863640
SNP_P4_81900_17125978	NC_021165.1	Ca_kabuli_chr06	17125978	GG	AA	1946863642
SNP_P4_81901_17125986	NC_021165.1	Ca_kabuli_chr06	17125986	GG	AA	1946863644
SNP_P4_81902_17126016	NC_021165.1	Ca_kabuli_chr06	17126016	CC	TT	1946863646

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_81904_17127149	NC_021165.1	Ca_kabuli_chr06	17127149	GG	AA	1946863650
SNP_P4_81905_17127954	NC_021165.1	Ca_kabuli_chr06	17127954	CC	TT	1946863652
SNP_P4_81906_17127985	NC_021165.1	Ca_kabuli_chr06	17127985	TT	CC	1946863654
SNP_P4_81907_17128047	NC_021165.1	Ca_kabuli_chr06	17128047	GG	AA	1946863656
SNP_P4_81908_17128054	NC_021165.1	Ca_kabuli_chr06	17128054	CC	AA	1946863658
SNP_P4_81909_17128069	NC_021165.1	Ca_kabuli_chr06	17128069	GG	AA	1946863660
SNP_P4_81910_17128648	NC_021165.1	Ca_kabuli_chr06	17128648	TT	GG	1946863662
SNP_P4_81911_17129046	NC_021165.1	Ca_kabuli_chr06	17129046	AA	CC	1946863664
SNP_P4_81912_17129574	NC_021165.1	Ca_kabuli_chr06	17129574	AA	GG	1946863666
SNP_P4_81913_17129695	NC_021165.1	Ca_kabuli_chr06	17129695	TT	AA	1946863668
SNP_P4_81914_17132577	NC_021165.1	Ca_kabuli_chr06	17132577	TT	CC	1946863670
SNP_P4_81915_17134162	NC_021165.1	Ca_kabuli_chr06	17134162	TT	CC	1946863671
SNP_P4_81916_17134314	NC_021165.1	Ca_kabuli_chr06	17134314	TT	CC	1946863674
SNP_P4_81917_17135893	NC_021165.1	Ca_kabuli_chr06	17135893	GG	AA	1946863676
SNP_P4_81918_17135907	NC_021165.1	Ca_kabuli_chr06	17135907	GG	TT	1946863678
SNP_P4_81921_17136481	NC_021165.1	Ca_kabuli_chr06	17136481	TT	AA	1946863680
SNP_P4_81922_17136531	NC_021165.1	Ca_kabuli_chr06	17136531	AA	GG	1946863681
SNP_P4_81923_17138292	NC_021165.1	Ca_kabuli_chr06	17138292	GG	AA	1946863683
SNP_P4_81925_17138775	NC_021165.1	Ca_kabuli_chr06	17138775	AA	GG	1946863685
SNP_P4_81926_17138806	NC_021165.1	Ca_kabuli_chr06	17138806	GG	AA	1946863687
SNP_P4_81927_17139082	NC_021165.1	Ca_kabuli_chr06	17139082	TT	CC	1946863689
SNP_P4_81928_17139108	NC_021165.1	Ca_kabuli_chr06	17139108	CC	TT	1946863691
SNP_P4_81929_17139126	NC_021165.1	Ca_kabuli_chr06	17139126	CC	TT	1946863693
SNP_P4_81931_17163379	NC_021165.1	Ca_kabuli_chr06	17163379	GG	CC	1946863695
SNP_P4_81934_17174965	NC_021165.1	Ca_kabuli_chr06	17174965	TT	AA	1946863697
SNP_P4_81935_17174968	NC_021165.1	Ca_kabuli_chr06	17174968	TT	AA	1946863699
SNP_P4_81936_17179610	NC_021165.1	Ca_kabuli_chr06	17179610	AA	GG	1946863701
SNP_P4_81937_17182775	NC_021165.1	Ca_kabuli_chr06	17182775	TT	CC	1946863703
SNP_P4_81938_17182945	NC_021165.1	Ca_kabuli_chr06	17182945	GG	AA	1946863705
SNP_P4_81941_17194377	NC_021165.1	Ca_kabuli_chr06	17194377	CC	AA	1946863707
SNP_P4_81942_17198096	NC_021165.1	Ca_kabuli_chr06	17198096	GG	TT	1946863709
SNP_P4_81944_17207691	NC_021165.1	Ca_kabuli_chr06	17207691	GG	AA	1946863711
SNP_P4_81946_17271870	NC_021165.1	Ca_kabuli_chr06	17271870	CC	TT	1946863713
SNP_P4_81947_17302693	NC_021165.1	Ca_kabuli_chr06	17302693	AA	CC	1946863715
SNP_P4_81948_17302694	NC_021165.1	Ca_kabuli_chr06	17302694	AA	GG	1946863717
SNP_P4_81950_17355841	NC_021165.1	Ca_kabuli_chr06	17355841	GG	TT	1946863719
SNP_P4_81952_17390124	NC_021165.1	Ca_kabuli_chr06	17390124	TT	AA	1946863721
SNP_P4_81953_17392285	NC_021165.1	Ca_kabuli_chr06	17392285	AA	TT	1946863723
SNP_P4_81954_17392888	NC_021165.1	Ca_kabuli_chr06	17392888	AA	CC	1946863725
SNP_P4_81955_17392890	NC_021165.1	Ca_kabuli_chr06	17392890	AA	CC	1946863727
SNP_P4_81957_17412366	NC_021165.1	Ca_kabuli_chr06	17412366	CC	GG	1946863729

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_81960_17414926	NC_021165.1	Ca_kabuli_chr06	17414926	CC	GG	1946863732
SNP_P4_81961_17423474	NC_021165.1	Ca_kabuli_chr06	17423474	TT	CC	1946863733
SNP_P4_81962_17461206	NC_021165.1	Ca_kabuli_chr06	17461206	TT	AA	1946863734
SNP_P4_81963_17461294	NC_021165.1	Ca_kabuli_chr06	17461294	AA	TT	1946863735
SNP_P4_81964_17461633	NC_021165.1	Ca_kabuli_chr06	17461633	GG	AA	1946863737
SNP_P4_81965_17489718	NC_021165.1	Ca_kabuli_chr06	17489718	TT	CC	1946863738
SNP_P4_81967_17503324	NC_021165.1	Ca_kabuli_chr06	17503324	GG	AA	1946863740
SNP_P4_81969_17511515	NC_021165.1	Ca_kabuli_chr06	17511515	CC	TT	1946863743
SNP_P4_81970_17511744	NC_021165.1	Ca_kabuli_chr06	17511744	AA	GG	1946863744
SNP_P4_81971_17521663	NC_021165.1	Ca_kabuli_chr06	17521663	AA	GG	1946863747
SNP_P4_81972_17521712	NC_021165.1	Ca_kabuli_chr06	17521712	CC	TT	1946863749
SNP_P4_81973_17532896	NC_021165.1	Ca_kabuli_chr06	17532896	AA	GG	1946863751
SNP_P4_81974_17532900	NC_021165.1	Ca_kabuli_chr06	17532900	AA	GG	1946863753
SNP_P4_81975_17532971	NC_021165.1	Ca_kabuli_chr06	17532971	GG	TT	1946863754
SNP_P4_81976_17577596	NC_021165.1	Ca_kabuli_chr06	17577596	GG	AA	1946863756
SNP_P4_81977_17614020	NC_021165.1	Ca_kabuli_chr06	17614020	CC	TT	1946863758
SNP_P4_81980_17722183	NC_021165.1	Ca_kabuli_chr06	17722183	GG	TT	1946863760
SNP_P4_81981_17726096	NC_021165.1	Ca_kabuli_chr06	17726096	GG	AA	1946863762
SNP_P4_81983_17744495	NC_021165.1	Ca_kabuli_chr06	17744495	AA	GG	1946863764
SNP_P4_81984_17744583	NC_021165.1	Ca_kabuli_chr06	17744583	TT	GG	1946863766
SNP_P4_81985_17752007	NC_021165.1	Ca_kabuli_chr06	17752007	TT	CC	1946863768
SNP_P4_81986_17753138	NC_021165.1	Ca_kabuli_chr06	17753138	TT	GG	1946863770
SNP_P4_81988_17762997	NC_021165.1	Ca_kabuli_chr06	17762997	TT	GG	1946863772
SNP_P4_81989_17762999	NC_021165.1	Ca_kabuli_chr06	17762999	AA	CC	1946863774
SNP_P4_81990_17796718	NC_021165.1	Ca_kabuli_chr06	17796718	AA	CC	1946863776
SNP_P4_81991_17799480	NC_021165.1	Ca_kabuli_chr06	17799480	AA	CC	1946863778
SNP_P4_81992_17799482	NC_021165.1	Ca_kabuli_chr06	17799482	TT	CC	1946863780
SNP_P4_81993_17801883	NC_021165.1	Ca_kabuli_chr06	17801883	GG	AA	1946863782
SNP_P4_81994_17843999	NC_021165.1	Ca_kabuli_chr06	17843999	AA	GG	1946863784
SNP_P4_81995_17844189	NC_021165.1	Ca_kabuli_chr06	17844189	TT	GG	1946863786
SNP_P4_81998_17852851	NC_021165.1	Ca_kabuli_chr06	17852851	TT	CC	1946863787
SNP_P4_82000_17859016	NC_021165.1	Ca_kabuli_chr06	17859016	GG	CC	1946863789
SNP_P4_82001_17878067	NC_021165.1	Ca_kabuli_chr06	17878067	CC	TT	1946863791
SNP_P4_82002_17882403	NC_021165.1	Ca_kabuli_chr06	17882403	GG	TT	1946863793
SNP_P4_82003_17883451	NC_021165.1	Ca_kabuli_chr06	17883451	CC	TT	1946863795
SNP_P4_82004_17906627	NC_021165.1	Ca_kabuli_chr06	17906627	AA	TT	1946863797
SNP_P4_82005_17911410	NC_021165.1	Ca_kabuli_chr06	17911410	CC	TT	1946863799
SNP_P4_82006_17923028	NC_021165.1	Ca_kabuli_chr06	17923028	AA	GG	1946863801
SNP_P4_82007_17923030	NC_021165.1	Ca_kabuli_chr06	17923030	AA	CC	1946863803
SNP_P4_82009_17947182	NC_021165.1	Ca_kabuli_chr06	17947182	CC	TT	1946863805
SNP_P4_82010_17960465	NC_021165.1	Ca_kabuli_chr06	17960465	CC	TT	1946863807

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_82012_17993605	NC_021165.1	Ca_kabuli_chr06	17993605	CC	AA	1946863811
SNP_P4_82013_17993606	NC_021165.1	Ca_kabuli_chr06	17993606	AA	CC	1946863813
SNP_P4_82014_17993613	NC_021165.1	Ca_kabuli_chr06	17993613	TT	CC	1946863815
SNP_P4_82015_17993614	NC_021165.1	Ca_kabuli_chr06	17993614	CC	AA	1946863817
SNP_P4_82016_17993642	NC_021165.1	Ca_kabuli_chr06	17993642	CC	AA	1946863819
SNP_P4_82017_17993649	NC_021165.1	Ca_kabuli_chr06	17993649	CC	AA	1946863821
SNP_P4_82018_17994499	NC_021165.1	Ca_kabuli_chr06	17994499	GG	AA	1946863823
SNP_P4_82019_17994880	NC_021165.1	Ca_kabuli_chr06	17994880	AA	TT	1946863825
SNP_P4_82020_18002936	NC_021165.1	Ca_kabuli_chr06	18002936	CC	TT	1946863827
SNP_P4_82021_18013466	NC_021165.1	Ca_kabuli_chr06	18013466	TT	AA	1946863829
SNP_P4_82022_18027862	NC_021165.1	Ca_kabuli_chr06	18027862	AA	GG	1946863831
SNP_P4_82023_18032408	NC_021165.1	Ca_kabuli_chr06	18032408	CC	AA	1946863833
SNP_P4_82024_18040326	NC_021165.1	Ca_kabuli_chr06	18040326	AA	GG	1946863835
SNP_P4_82025_18080452	NC_021165.1	Ca_kabuli_chr06	18080452	TT	CC	1946863837
SNP_P4_82026_18116235	NC_021165.1	Ca_kabuli_chr06	18116235	TT	CC	1946863839
SNP_P4_82027_18156327	NC_021165.1	Ca_kabuli_chr06	18156327	GG	AA	1946863841
SNP_P4_82028_18156653	NC_021165.1	Ca_kabuli_chr06	18156653	GG	AA	1946863843
SNP_P4_82029_18162545	NC_021165.1	Ca_kabuli_chr06	18162545	GG	AA	1946863845
SNP_P4_82031_18178351	NC_021165.1	Ca_kabuli_chr06	18178351	GG	AA	1946863847
SNP_P4_82032_18178467	NC_021165.1	Ca_kabuli_chr06	18178467	TT	GG	1946863849
SNP_P4_82033_18179128	NC_021165.1	Ca_kabuli_chr06	18179128	AA	TT	1946863851
SNP_P4_82035_18194962	NC_021165.1	Ca_kabuli_chr06	18194962	CC	TT	1946863853
SNP_P4_82036_18195229	NC_021165.1	Ca_kabuli_chr06	18195229	CC	GG	1946863855
SNP_P4_82037_18204531	NC_021165.1	Ca_kabuli_chr06	18204531	CC	TT	1946863857
SNP_P4_82039_18216332	NC_021165.1	Ca_kabuli_chr06	18216332	TT	CC	1946863859
SNP_P4_82041_18247661	NC_021165.1	Ca_kabuli_chr06	18247661	AA	GG	1946863861
SNP_P4_82042_18277437	NC_021165.1	Ca_kabuli_chr06	18277437	GG	AA	1946863863
SNP_P4_82043_18281042	NC_021165.1	Ca_kabuli_chr06	18281042	CC	TT	1946863865
SNP_P4_82045_18333424	NC_021165.1	Ca_kabuli_chr06	18333424	GG	CC	1946863867
SNP_P4_82046_18343611	NC_021165.1	Ca_kabuli_chr06	18343611	CC	TT	1946863869
SNP_P4_82047_18343651	NC_021165.1	Ca_kabuli_chr06	18343651	CC	TT	1946863871
SNP_P4_82048_18343740	NC_021165.1	Ca_kabuli_chr06	18343740	AA	GG	1946863873
SNP_P4_82049_18344002	NC_021165.1	Ca_kabuli_chr06	18344002	GG	AA	1946863875
SNP_P4_82050_18355370	NC_021165.1	Ca_kabuli_chr06	18355370	GG	AA	1946863877
SNP_P4_82051_18355516	NC_021165.1	Ca_kabuli_chr06	18355516	CC	TT	1946863879
SNP_P4_82052_18355544	NC_021165.1	Ca_kabuli_chr06	18355544	CC	TT	1946863881
SNP_P4_82053_18355765	NC_021165.1	Ca_kabuli_chr06	18355765	CC	TT	1946863883
SNP_P4_82054_18355771	NC_021165.1	Ca_kabuli_chr06	18355771	AA	TT	1946863885
SNP_P4_82055_18355834	NC_021165.1	Ca_kabuli_chr06	18355834	TT	CC	1946863887
SNP_P4_82056_18355917	NC_021165.1	Ca_kabuli_chr06	18355917	AA	GG	1946863888
SNP_P4_82057_18384439	NC_021165.1	Ca_kabuli_chr06	18384439	GG	AA	1946863890

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_82059_18385033	NC_021165.1	Ca_kabuli_chr06	18385033	GG	AA	1946863894
SNP_P4_82060_18386402	NC_021165.1	Ca_kabuli_chr06	18386402	CC	TT	1946863896
SNP_P4_82061_18401129	NC_021165.1	Ca_kabuli_chr06	18401129	GG	AA	1946863898
SNP_P4_82062_18414175	NC_021165.1	Ca_kabuli_chr06	18414175	AA	TT	1946863900
SNP_P4_82063_18414178	NC_021165.1	Ca_kabuli_chr06	18414178	AA	CC	1946863902
SNP_P4_82066_18429085	NC_021165.1	Ca_kabuli_chr06	18429085	GG	AA	1946863904
SNP_P4_82067_18434067	NC_021165.1	Ca_kabuli_chr06	18434067	AA	GG	1946863906
SNP_P4_82068_18449386	NC_021165.1	Ca_kabuli_chr06	18449386	AA	GG	1946863908
SNP_P4_82069_18451470	NC_021165.1	Ca_kabuli_chr06	18451470	TT	AA	1946863910
SNP_P4_82070_18469548	NC_021165.1	Ca_kabuli_chr06	18469548	TT	CC	1946863912
SNP_P4_82071_18469916	NC_021165.1	Ca_kabuli_chr06	18469916	CC	TT	1946863914
SNP_P4_82073_18489850	NC_021165.1	Ca_kabuli_chr06	18489850	TT	CC	1946863916
SNP_P4_82074_18503743	NC_021165.1	Ca_kabuli_chr06	18503743	TT	AA	1946863918
SNP_P4_82076_18517547	NC_021165.1	Ca_kabuli_chr06	18517547	GG	AA	1946863920
SNP_P4_82077_18517659	NC_021165.1	Ca_kabuli_chr06	18517659	AA	TT	1946863922
SNP_P4_82078_18535533	NC_021165.1	Ca_kabuli_chr06	18535533	TT	CC	1946863924
SNP_P4_82079_18535694	NC_021165.1	Ca_kabuli_chr06	18535694	GG	TT	1946863926
SNP_P4_82080_18539985	NC_021165.1	Ca_kabuli_chr06	18539985	CC	GG	1946863928
SNP_P4_82081_18540833	NC_021165.1	Ca_kabuli_chr06	18540833	GG	AA	1946863930
SNP_P4_82083_18569486	NC_021165.1	Ca_kabuli_chr06	18569486	TT	AA	1946863932
SNP_P4_82085_18571148	NC_021165.1	Ca_kabuli_chr06	18571148	TT	AA	1946863934
SNP_P4_82086_18575315	NC_021165.1	Ca_kabuli_chr06	18575315	TT	GG	1946863936
SNP_P4_82087_18594475	NC_021165.1	Ca_kabuli_chr06	18594475	GG	AA	1946863938
SNP_P4_82088_18594555	NC_021165.1	Ca_kabuli_chr06	18594555	TT	GG	1946863940
SNP_P4_82089_18594576	NC_021165.1	Ca_kabuli_chr06	18594576	GG	TT	1946863942
SNP_P4_82090_18599825	NC_021165.1	Ca_kabuli_chr06	18599825	CC	TT	1946863944
SNP_P4_82091_18601335	NC_021165.1	Ca_kabuli_chr06	18601335	TT	CC	1946863946
SNP_P4_82092_18603043	NC_021165.1	Ca_kabuli_chr06	18603043	AA	GG	1946863948
SNP_P4_82093_18616176	NC_021165.1	Ca_kabuli_chr06	18616176	TT	CC	1946863950
SNP_P4_82094_18617680	NC_021165.1	Ca_kabuli_chr06	18617680	TT	CC	1946863952
SNP_P4_82095_18617729	NC_021165.1	Ca_kabuli_chr06	18617729	AA	GG	1946863954
SNP_P4_82096_18617923	NC_021165.1	Ca_kabuli_chr06	18617923	GG	AA	1946863956
SNP_P4_82097_18617968	NC_021165.1	Ca_kabuli_chr06	18617968	AA	GG	1946863958
SNP_P4_82098_18622184	NC_021165.1	Ca_kabuli_chr06	18622184	GG	AA	1946863960
SNP_P4_82099_18622197	NC_021165.1	Ca_kabuli_chr06	18622197	CC	AA	1946863961
SNP_P4_82100_18622249	NC_021165.1	Ca_kabuli_chr06	18622249	GG	AA	1946863963
SNP_P4_82101_18622592	NC_021165.1	Ca_kabuli_chr06	18622592	TT	CC	1946863965
SNP_P4_82104_18627787	NC_021165.1	Ca_kabuli_chr06	18627787	GG	AA	1946863967
SNP_P4_82105_18638873	NC_021165.1	Ca_kabuli_chr06	18638873	GG	AA	1946863969
SNP_P4_82106_18662849	NC_021165.1	Ca_kabuli_chr06	18662849	CC	TT	1946863971
SNP_P4_82107_18688158	NC_021165.1	Ca_kabuli_chr06	18688158	AA	GG	1946863973

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_82108_18693672	NC_021165.1	Ca_kabuli_chr06	18693672	CC	TT	1946863975
SNP_P4_82109_18693706	NC_021165.1	Ca_kabuli_chr06	18693706	CC	TT	1946863977
SNP_P4_82110_18695117	NC_021165.1	Ca_kabuli_chr06	18695117	TT	CC	1946863979
SNP_P4_82111_18698676	NC_021165.1	Ca_kabuli_chr06	18698676	TT	AA	1946863981
SNP_P4_82112_18699452	NC_021165.1	Ca_kabuli_chr06	18699452	AA	TT	1946863983
SNP_P4_82113_18703997	NC_021165.1	Ca_kabuli_chr06	18703997	AA	GG	1946863985
SNP_P4_82114_18705615	NC_021165.1	Ca_kabuli_chr06	18705615	TT	CC	1946863987
SNP_P4_82115_18706830	NC_021165.1	Ca_kabuli_chr06	18706830	GG	AA	1946863989
SNP_P4_82116_18719697	NC_021165.1	Ca_kabuli_chr06	18719697	CC	TT	1946863991
SNP_P4_82118_18790726	NC_021165.1	Ca_kabuli_chr06	18790726	AA	GG	1946863993
SNP_P4_82120_18792021	NC_021165.1	Ca_kabuli_chr06	18792021	CC	AA	1946863995
SNP_P4_82121_18859563	NC_021165.1	Ca_kabuli_chr06	18859563	TT	CC	1946863997
SNP_P4_82122_18872108	NC_021165.1	Ca_kabuli_chr06	18872108	GG	AA	1946863999
SNP_P4_82123_18874033	NC_021165.1	Ca_kabuli_chr06	18874033	AA	GG	1946864001
SNP_P4_82124_18881565	NC_021165.1	Ca_kabuli_chr06	18881565	TT	CC	1946864003
SNP_P4_82125_18933037	NC_021165.1	Ca_kabuli_chr06	18933037	GG	AA	1946864005
SNP_P4_82126_18938461	NC_021165.1	Ca_kabuli_chr06	18938461	TT	CC	1946864007
SNP_P4_82127_18946162	NC_021165.1	Ca_kabuli_chr06	18946162	GG	CC	1946864009
SNP_P4_82128_18958715	NC_021165.1	Ca_kabuli_chr06	18958715	AA	GG	1946864011
SNP_P4_82129_19009194	NC_021165.1	Ca_kabuli_chr06	19009194	CC	AA	1946864013
SNP_P4_82130_19022833	NC_021165.1	Ca_kabuli_chr06	19022833	GG	AA	1946864015
SNP_P4_82131_19038036	NC_021165.1	Ca_kabuli_chr06	19038036	CC	TT	1946864017
SNP_P4_82134_19095438	NC_021165.1	Ca_kabuli_chr06	19095438	TT	CC	1946864019
SNP_P4_82135_19100400	NC_021165.1	Ca_kabuli_chr06	19100400	AA	GG	1946864021
SNP_P4_82136_19121663	NC_021165.1	Ca_kabuli_chr06	19121663	AA	GG	1946864023
SNP_P4_82138_19175029	NC_021165.1	Ca_kabuli_chr06	19175029	TT	CC	1946864025
SNP_P4_82139_19193218	NC_021165.1	Ca_kabuli_chr06	19193218	TT	CC	1946864027
SNP_P4_82140_19194297	NC_021165.1	Ca_kabuli_chr06	19194297	GG	AA	1946864029
SNP_P4_82141_19222596	NC_021165.1	Ca_kabuli_chr06	19222596	TT	CC	1946864031
SNP_P4_82142_19239771	NC_021165.1	Ca_kabuli_chr06	19239771	GG	CC	1946864033
SNP_P4_82144_19245362	NC_021165.1	Ca_kabuli_chr06	19245362	CC	TT	1946864035
SNP_P4_82145_19251977	NC_021165.1	Ca_kabuli_chr06	19251977	GG	AA	1946864037
SNP_P4_82146_19253835	NC_021165.1	Ca_kabuli_chr06	19253835	GG	AA	1946864039
SNP_P4_82147_19257610	NC_021165.1	Ca_kabuli_chr06	19257610	TT	AA	1946864041
SNP_P4_82149_19259676	NC_021165.1	Ca_kabuli_chr06	19259676	TT	AA	1946864043
SNP_P4_82150_19277024	NC_021165.1	Ca_kabuli_chr06	19277024	CC	TT	1946864045
SNP_P4_82151_19285689	NC_021165.1	Ca_kabuli_chr06	19285689	AA	GG	1946864047
SNP_P4_82152_19293264	NC_021165.1	Ca_kabuli_chr06	19293264	GG	AA	1946864049
SNP_P4_82153_19307719	NC_021165.1	Ca_kabuli_chr06	19307719	GG	AA	1946864051
SNP_P4_82154_19307724	NC_021165.1	Ca_kabuli_chr06	19307724	CC	TT	1946864053
SNP_P4_82156_19339164	NC_021165.1	Ca_kabuli_chr06	19339164	AA	TT	1946864055
SNP_P4_82157_19340108	NC_021165.1	Ca_kabuli_chr06	19340108	TT	GG	1946864057

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_82158_19349297	NC_021165.1	Ca_kabuli_chr06	19349297	GG	AA	1946864059
SNP_P4_82159_19351168	NC_021165.1	Ca_kabuli_chr06	19351168	AA	GG	1946864062
SNP_P4_82160_19362071	NC_021165.1	Ca_kabuli_chr06	19362071	AA	GG	1946864064
SNP_P4_82161_19363107	NC_021165.1	Ca_kabuli_chr06	19363107	TT	GG	1946864066
SNP_P4_82162_19376992	NC_021165.1	Ca_kabuli_chr06	19376992	TT	CC	1946864068
SNP_P4_82163_19385781	NC_021165.1	Ca_kabuli_chr06	19385781	GG	AA	1946864070
SNP_P4_82164_19412675	NC_021165.1	Ca_kabuli_chr06	19412675	CC	TT	1946864072
SNP_P4_82166_19424174	NC_021165.1	Ca_kabuli_chr06	19424174	TT	CC	1946864074
SNP_P4_82167_19438742	NC_021165.1	Ca_kabuli_chr06	19438742	AA	GG	1946864076
SNP_P4_82168_19445840	NC_021165.1	Ca_kabuli_chr06	19445840	AA	GG	1946864078
SNP_P4_82169_19445844	NC_021165.1	Ca_kabuli_chr06	19445844	TT	CC	1946864080
SNP_P4_82170_19479920	NC_021165.1	Ca_kabuli_chr06	19479920	TT	CC	1946864082
SNP_P4_82171_19496143	NC_021165.1	Ca_kabuli_chr06	19496143	AA	TT	1946864084
SNP_P4_82172_19498756	NC_021165.1	Ca_kabuli_chr06	19498756	CC	TT	1946864086
SNP_P4_82173_19501297	NC_021165.1	Ca_kabuli_chr06	19501297	AA	GG	1946864088
SNP_P4_82177_19612494	NC_021165.1	Ca_kabuli_chr06	19612494	TT	GG	1946864090
SNP_P4_82180_19670306	NC_021165.1	Ca_kabuli_chr06	19670306	GG	AA	1946864092
SNP_P4_82183_19709781	NC_021165.1	Ca_kabuli_chr06	19709781	AA	GG	1946864094
SNP_P4_82184_19721635	NC_021165.1	Ca_kabuli_chr06	19721635	CC	TT	1946864096
SNP_P4_82185_19750547	NC_021165.1	Ca_kabuli_chr06	19750547	TT	CC	1946864098
SNP_P4_82186_19751290	NC_021165.1	Ca_kabuli_chr06	19751290	CC	TT	1946864100
SNP_P4_82187_20493921	NC_021165.1	Ca_kabuli_chr06	20493921	GG	AA	1946864102
SNP_P4_82188_20493974	NC_021165.1	Ca_kabuli_chr06	20493974	CC	TT	1946864104
SNP_P4_82189_20494040	NC_021165.1	Ca_kabuli_chr06	20494040	AA	GG	1946864106
SNP_P4_82190_20494183	NC_021165.1	Ca_kabuli_chr06	20494183	GG	AA	1946864108
SNP_P4_82191_20494202	NC_021165.1	Ca_kabuli_chr06	20494202	AA	TT	1946864110
SNP_P4_82192_20494467	NC_021165.1	Ca_kabuli_chr06	20494467	TT	CC	1946864112
SNP_P4_82193_20494689	NC_021165.1	Ca_kabuli_chr06	20494689	TT	CC	1946864114
SNP_P4_82194_20546429	NC_021165.1	Ca_kabuli_chr06	20546429	AA	CC	1946864116
SNP_P4_82195_20546439	NC_021165.1	Ca_kabuli_chr06	20546439	CC	TT	1946864118
SNP_P4_82196_20551417	NC_021165.1	Ca_kabuli_chr06	20551417	CC	TT	1946864120
SNP_P4_82197_20582839	NC_021165.1	Ca_kabuli_chr06	20582839	TT	AA	1946864122
SNP_P4_82198_20588655	NC_021165.1	Ca_kabuli_chr06	20588655	TT	AA	1946864124
SNP_P4_82200_20605610	NC_021165.1	Ca_kabuli_chr06	20605610	CC	TT	1946864126
SNP_P4_82201_20619093	NC_021165.1	Ca_kabuli_chr06	20619093	CC	TT	1946864128
SNP_P4_82202_20644805	NC_021165.1	Ca_kabuli_chr06	20644805	TT	GG	1946864130
SNP_P4_82203_20644828	NC_021165.1	Ca_kabuli_chr06	20644828	CC	GG	1946864132
SNP_P4_82204_20645179	NC_021165.1	Ca_kabuli_chr06	20645179	TT	CC	1946864134
SNP_P4_82205_20646879	NC_021165.1	Ca_kabuli_chr06	20646879	AA	GG	1946864136
SNP_P4_82206_20656100	NC_021165.1	Ca_kabuli_chr06	20656100	AA	TT	1946864138
SNP_P4_82207_20657674	NC_021165.1	Ca_kabuli_chr06	20657674	AA	GG	1946864140
SNP_P4_82209_20678153	NC_021165.1	Ca_kabuli_chr06	20678153	CC	TT	1946864142

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_82213_20706471	NC_021165.1	Ca_kabuli_chr06	20706471	CC	TT	1946864146
SNP_P4_82214_20706491	NC_021165.1	Ca_kabuli_chr06	20706491	CC	TT	1946864148
SNP_P4_82215_20711633	NC_021165.1	Ca_kabuli_chr06	20711633	TT	AA	1946864150
SNP_P4_82216_20711635	NC_021165.1	Ca_kabuli_chr06	20711635	TT	AA	1946864152
SNP_P4_82217_20715740	NC_021165.1	Ca_kabuli_chr06	20715740	GG	AA	1946864154
SNP_P4_82218_20715877	NC_021165.1	Ca_kabuli_chr06	20715877	CC	AA	1946864156
SNP_P4_82219_20716105	NC_021165.1	Ca_kabuli_chr06	20716105	CC	TT	1946864158
SNP_P4_82220_20716295	NC_021165.1	Ca_kabuli_chr06	20716295	GG	AA	1946864160
SNP_P4_82221_20730379	NC_021165.1	Ca_kabuli_chr06	20730379	GG	CC	1946864162
SNP_P4_82222_20745747	NC_021165.1	Ca_kabuli_chr06	20745747	AA	GG	1946864164
SNP_P4_82223_20747413	NC_021165.1	Ca_kabuli_chr06	20747413	TT	CC	1946864166
SNP_P4_82224_20786192	NC_021165.1	Ca_kabuli_chr06	20786192	TT	CC	1946864168
SNP_P4_82225_20789672	NC_021165.1	Ca_kabuli_chr06	20789672	TT	CC	1946864170
SNP_P4_82226_20789712	NC_021165.1	Ca_kabuli_chr06	20789712	TT	CC	1946864172
SNP_P4_82227_20790226	NC_021165.1	Ca_kabuli_chr06	20790226	TT	CC	1946864174
SNP_P4_82228_20793547	NC_021165.1	Ca_kabuli_chr06	20793547	AA	GG	1946864176
SNP_P4_82229_20793551	NC_021165.1	Ca_kabuli_chr06	20793551	TT	CC	1946864178
SNP_P4_82230_20793553	NC_021165.1	Ca_kabuli_chr06	20793553	AA	GG	1946864180
SNP_P4_82231_20799907	NC_021165.1	Ca_kabuli_chr06	20799907	AA	GG	1946864182
SNP_P4_82232_20799913	NC_021165.1	Ca_kabuli_chr06	20799913	TT	CC	1946864184
SNP_P4_82233_20800130	NC_021165.1	Ca_kabuli_chr06	20800130	GG	AA	1946864186
SNP_P4_82234_20816797	NC_021165.1	Ca_kabuli_chr06	20816797	AA	TT	1946864188
SNP_P4_82235_20825820	NC_021165.1	Ca_kabuli_chr06	20825820	AA	GG	1946864190
SNP_P4_82236_20838551	NC_021165.1	Ca_kabuli_chr06	20838551	TT	CC	1946864192
SNP_P4_82237_20840473	NC_021165.1	Ca_kabuli_chr06	20840473	AA	CC	1946864194
SNP_P4_82238_20858499	NC_021165.1	Ca_kabuli_chr06	20858499	CC	GG	1946864196
SNP_P4_82239_20858503	NC_021165.1	Ca_kabuli_chr06	20858503	CC	TT	1946864198
SNP_P4_82240_20860322	NC_021165.1	Ca_kabuli_chr06	20860322	CC	TT	1946864200
SNP_P4_82241_20866847	NC_021165.1	Ca_kabuli_chr06	20866847	AA	GG	1946864202
SNP_P4_82242_20867012	NC_021165.1	Ca_kabuli_chr06	20867012	AA	TT	1946864204
SNP_P4_82243_20867251	NC_021165.1	Ca_kabuli_chr06	20867251	CC	GG	1946864206
SNP_P4_82245_20891713	NC_021165.1	Ca_kabuli_chr06	20891713	GG	AA	1946864209
SNP_P4_82246_20897512	NC_021165.1	Ca_kabuli_chr06	20897512	AA	TT	1946864211
SNP_P4_82247_20915126	NC_021165.1	Ca_kabuli_chr06	20915126	AA	GG	1946864213
SNP_P4_82248_20950384	NC_021165.1	Ca_kabuli_chr06	20950384	CC	TT	1946864215
SNP_P4_82249_20954553	NC_021165.1	Ca_kabuli_chr06	20954553	AA	TT	1946864217
SNP_P4_82250_20977784	NC_021165.1	Ca_kabuli_chr06	20977784	CC	AA	1946864219
SNP_P4_82251_20984311	NC_021165.1	Ca_kabuli_chr06	20984311	CC	TT	1946864221
SNP_P4_82252_20990611	NC_021165.1	Ca_kabuli_chr06	20990611	GG	TT	1946864223
SNP_P4_82253_20993269	NC_021165.1	Ca_kabuli_chr06	20993269	CC	AA	1946864226
SNP_P4_82256_21020701	NC_021165.1	Ca_kabuli_chr06	21020701	GG	TT	1946864228

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_82258_21021308	NC_021165.1	Ca_kabuli_chr06	21021308	TT	CC	1946864232
SNP_P4_82260_21021717	NC_021165.1	Ca_kabuli_chr06	21021717	AA	GG	1946864234
SNP_P4_82261_21021722	NC_021165.1	Ca_kabuli_chr06	21021722	TT	CC	1946864236
SNP_P4_82262_21044690	NC_021165.1	Ca_kabuli_chr06	21044690	TT	CC	1946864238
SNP_P4_82263_21077761	NC_021165.1	Ca_kabuli_chr06	21077761	TT	AA	1946864240
SNP_P4_82264_21092402	NC_021165.1	Ca_kabuli_chr06	21092402	CC	TT	1946864243
SNP_P4_82266_21116648	NC_021165.1	Ca_kabuli_chr06	21116648	GG	TT	1946864245
SNP_P4_82267_21116654	NC_021165.1	Ca_kabuli_chr06	21116654	GG	CC	1946864247
SNP_P4_82268_21117162	NC_021165.1	Ca_kabuli_chr06	21117162	GG	AA	1946864249
SNP_P4_82269_21122071	NC_021165.1	Ca_kabuli_chr06	21122071	GG	AA	1946864251
SNP_P4_82270_21134225	NC_021165.1	Ca_kabuli_chr06	21134225	TT	CC	1946864253
SNP_P4_82271_21134231	NC_021165.1	Ca_kabuli_chr06	21134231	AA	CC	1946864255
SNP_P4_82272_21138549	NC_021165.1	Ca_kabuli_chr06	21138549	TT	CC	1946864257
SNP_P4_82274_21141069	NC_021165.1	Ca_kabuli_chr06	21141069	AA	TT	1946864259
SNP_P4_82275_21141373	NC_021165.1	Ca_kabuli_chr06	21141373	TT	CC	1946864261
SNP_P4_82276_21141490	NC_021165.1	Ca_kabuli_chr06	21141490	CC	TT	1946864263
SNP_P4_82277_21141520	NC_021165.1	Ca_kabuli_chr06	21141520	CC	GG	1946864266
SNP_P4_82278_21141532	NC_021165.1	Ca_kabuli_chr06	21141532	CC	TT	1946864268
SNP_P4_82280_21141919	NC_021165.1	Ca_kabuli_chr06	21141919	CC	TT	1946864270
SNP_P4_82281_21146755	NC_021165.1	Ca_kabuli_chr06	21146755	AA	GG	1946864272
SNP_P4_82282_21146764	NC_021165.1	Ca_kabuli_chr06	21146764	CC	GG	1946864274
SNP_P4_82283_21147100	NC_021165.1	Ca_kabuli_chr06	21147100	GG	TT	1946864276
SNP_P4_82284_21147107	NC_021165.1	Ca_kabuli_chr06	21147107	GG	AA	1946864278
SNP_P4_82285_21147120	NC_021165.1	Ca_kabuli_chr06	21147120	AA	TT	1946864280
SNP_P4_82286_21147125	NC_021165.1	Ca_kabuli_chr06	21147125	TT	CC	1946864282
SNP_P4_82287_21147134	NC_021165.1	Ca_kabuli_chr06	21147134	GG	AA	1946864284
SNP_P4_82288_21147137	NC_021165.1	Ca_kabuli_chr06	21147137	TT	GG	1946864286
SNP_P4_82289_21147446	NC_021165.1	Ca_kabuli_chr06	21147446	AA	GG	1946864289
SNP_P4_82290_21151248	NC_021165.1	Ca_kabuli_chr06	21151248	AA	GG	1946864291
SNP_P4_82291_21151300	NC_021165.1	Ca_kabuli_chr06	21151300	AA	GG	1946864293
SNP_P4_82292_21153912	NC_021165.1	Ca_kabuli_chr06	21153912	GG	AA	1946864295
SNP_P4_82293_21154155	NC_021165.1	Ca_kabuli_chr06	21154155	GG	AA	1946864297
SNP_P4_82294_21154161	NC_021165.1	Ca_kabuli_chr06	21154161	CC	TT	1946864299
SNP_P4_82296_21154451	NC_021165.1	Ca_kabuli_chr06	21154451	CC	TT	1946864301
SNP_P4_82297_21154470	NC_021165.1	Ca_kabuli_chr06	21154470	CC	TT	1946864303
SNP_P4_82298_21154584	NC_021165.1	Ca_kabuli_chr06	21154584	TT	CC	1946864305
SNP_P4_82299_21154748	NC_021165.1	Ca_kabuli_chr06	21154748	TT	CC	1946864307
SNP_P4_82300_21154777	NC_021165.1	Ca_kabuli_chr06	21154777	AA	GG	1946864308
SNP_P4_82301_21154790	NC_021165.1	Ca_kabuli_chr06	21154790	CC	TT	1946864310
SNP_P4_82302_21155164	NC_021165.1	Ca_kabuli_chr06	21155164	TT	CC	1946864312
SNP_P4_82303_21156699	NC_021165.1	Ca_kabuli_chr06	21156699	CC	TT	1946864314

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_82305_21187545	NC_021165.1	Ca_kabuli_chr06	21187545	GG	AA	1946864318
SNP_P4_82307_21259595	NC_021165.1	Ca_kabuli_chr06	21259595	TT	CC	1946864320
SNP_P4_82308_21259637	NC_021165.1	Ca_kabuli_chr06	21259637	AA	TT	1946864323
SNP_P4_82309_21259650	NC_021165.1	Ca_kabuli_chr06	21259650	AA	GG	1946864325
SNP_P4_82310_21259663	NC_021165.1	Ca_kabuli_chr06	21259663	AA	GG	1946864327
SNP_P4_82311_21260207	NC_021165.1	Ca_kabuli_chr06	21260207	GG	CC	1946864329
SNP_P4_82312_21260628	NC_021165.1	Ca_kabuli_chr06	21260628	CC	TT	1946864331
SNP_P4_82313_21261810	NC_021165.1	Ca_kabuli_chr06	21261810	TT	GG	1946864333
SNP_P4_82315_21289359	NC_021165.1	Ca_kabuli_chr06	21289359	GG	AA	1946864335
SNP_P4_82316_21303227	NC_021165.1	Ca_kabuli_chr06	21303227	GG	TT	1946864337
SNP_P4_82317_21317678	NC_021165.1	Ca_kabuli_chr06	21317678	CC	TT	1946864339
SNP_P4_82318_21318623	NC_021165.1	Ca_kabuli_chr06	21318623	CC	TT	1946864341
SNP_P4_82319_21332546	NC_021165.1	Ca_kabuli_chr06	21332546	GG	TT	1946864343
SNP_P4_82321_21342937	NC_021165.1	Ca_kabuli_chr06	21342937	AA	CC	1946864345
SNP_P4_82322_21342939	NC_021165.1	Ca_kabuli_chr06	21342939	TT	GG	1946864347
SNP_P4_82323_21353727	NC_021165.1	Ca_kabuli_chr06	21353727	TT	CC	1946864349
SNP_P4_82324_21353806	NC_021165.1	Ca_kabuli_chr06	21353806	GG	TT	1946864351
SNP_P4_82325_21355932	NC_021165.1	Ca_kabuli_chr06	21355932	GG	AA	1946864353
SNP_P4_82326_21370870	NC_021165.1	Ca_kabuli_chr06	21370870	CC	TT	1946864355
SNP_P4_82328_21393359	NC_021165.1	Ca_kabuli_chr06	21393359	TT	AA	1946864357
SNP_P4_82329_21393365	NC_021165.1	Ca_kabuli_chr06	21393365	AA	TT	1946864359
SNP_P4_82330_21393366	NC_021165.1	Ca_kabuli_chr06	21393366	CC	AA	1946864361
SNP_P4_82331_21396314	NC_021165.1	Ca_kabuli_chr06	21396314	TT	CC	1946864363
SNP_P4_82332_21396367	NC_021165.1	Ca_kabuli_chr06	21396367	AA	TT	1946864365
SNP_P4_82333_21396668	NC_021165.1	Ca_kabuli_chr06	21396668	AA	GG	1946864367
SNP_P4_82335_21397357	NC_021165.1	Ca_kabuli_chr06	21397357	AA	TT	1946864369
SNP_P4_82336_21397377	NC_021165.1	Ca_kabuli_chr06	21397377	GG	AA	1946864371
SNP_P4_82337_21397392	NC_021165.1	Ca_kabuli_chr06	21397392	CC	GG	1946864373
SNP_P4_82338_21397464	NC_021165.1	Ca_kabuli_chr06	21397464	AA	GG	1946864375
SNP_P4_82339_21397488	NC_021165.1	Ca_kabuli_chr06	21397488	AA	GG	1946864377
SNP_P4_82340_21397493	NC_021165.1	Ca_kabuli_chr06	21397493	AA	GG	1946864379
SNP_P4_82341_21397524	NC_021165.1	Ca_kabuli_chr06	21397524	TT	AA	1946864381
SNP_P4_82342_21397589	NC_021165.1	Ca_kabuli_chr06	21397589	AA	TT	1946864383
SNP_P4_82344_21399687	NC_021165.1	Ca_kabuli_chr06	21399687	TT	CC	1946864385
SNP_P4_82346_21400766	NC_021165.1	Ca_kabuli_chr06	21400766	AA	GG	1946864387
SNP_P4_82347_21400914	NC_021165.1	Ca_kabuli_chr06	21400914	CC	TT	1946864389
SNP_P4_82348_21401149	NC_021165.1	Ca_kabuli_chr06	21401149	TT	CC	1946864391
SNP_P4_82349_21401225	NC_021165.1	Ca_kabuli_chr06	21401225	GG	AA	1946864393
SNP_P4_82350_21401248	NC_021165.1	Ca_kabuli_chr06	21401248	AA	GG	1946864395
SNP_P4_82352_21401577	NC_021165.1	Ca_kabuli_chr06	21401577	GG	AA	1946864397
SNP_P4_82353_21401656	NC_021165.1	Ca_kabuli_chr06	21401656	CC	TT	1946864399

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_82356_21461317	NC_021165.1	Ca_kabuli_chr06	21461317	GG	TT	1946864403
SNP_P4_82358_21481389	NC_021165.1	Ca_kabuli_chr06	21481389	GG	TT	1946864405
SNP_P4_82359_21485207	NC_021165.1	Ca_kabuli_chr06	21485207	CC	TT	1946864407
SNP_P4_82360_21485249	NC_021165.1	Ca_kabuli_chr06	21485249	CC	AA	1946864409
SNP_P4_82361_21485363	NC_021165.1	Ca_kabuli_chr06	21485363	GG	AA	1946864411
SNP_P4_82362_21485391	NC_021165.1	Ca_kabuli_chr06	21485391	AA	TT	1946864414
SNP_P4_82363_21485502	NC_021165.1	Ca_kabuli_chr06	21485502	TT	CC	1946864416
SNP_P4_82364_21485530	NC_021165.1	Ca_kabuli_chr06	21485530	AA	TT	1946864418
SNP_P4_82366_21485610	NC_021165.1	Ca_kabuli_chr06	21485610	GG	AA	1946864419
SNP_P4_82367_21485656	NC_021165.1	Ca_kabuli_chr06	21485656	TT	GG	1946864421
SNP_P4_82369_21522993	NC_021165.1	Ca_kabuli_chr06	21522993	GG	AA	1946864424
SNP_P4_82370_21523008	NC_021165.1	Ca_kabuli_chr06	21523008	GG	AA	1946864426
SNP_P4_82371_21523277	NC_021165.1	Ca_kabuli_chr06	21523277	GG	AA	1946864428
SNP_P4_82372_21523301	NC_021165.1	Ca_kabuli_chr06	21523301	GG	AA	1946864430
SNP_P4_82373_21523310	NC_021165.1	Ca_kabuli_chr06	21523310	GG	AA	1946864432
SNP_P4_82374_21523337	NC_021165.1	Ca_kabuli_chr06	21523337	GG	AA	1946864434
SNP_P4_82375_21523379	NC_021165.1	Ca_kabuli_chr06	21523379	AA	TT	1946864436
SNP_P4_82376_21523409	NC_021165.1	Ca_kabuli_chr06	21523409	TT	CC	1946864438
SNP_P4_82377_21523763	NC_021165.1	Ca_kabuli_chr06	21523763	AA	GG	1946864440
SNP_P4_82378_21523772	NC_021165.1	Ca_kabuli_chr06	21523772	TT	CC	1946864442
SNP_P4_82379_21523784	NC_021165.1	Ca_kabuli_chr06	21523784	TT	CC	1946864444
SNP_P4_82380_21523954	NC_021165.1	Ca_kabuli_chr06	21523954	GG	AA	1946864446
SNP_P4_82381_21523982	NC_021165.1	Ca_kabuli_chr06	21523982	GG	TT	1946864448
SNP_P4_82382_21523984	NC_021165.1	Ca_kabuli_chr06	21523984	GG	AA	1946864450
SNP_P4_82383_21524021	NC_021165.1	Ca_kabuli_chr06	21524021	TT	AA	1946864452
SNP_P4_82384_21524058	NC_021165.1	Ca_kabuli_chr06	21524058	AA	GG	1946864454
SNP_P4_82385_21524070	NC_021165.1	Ca_kabuli_chr06	21524070	GG	AA	1946864456
SNP_P4_82386_21524108	NC_021165.1	Ca_kabuli_chr06	21524108	TT	AA	1946864458
SNP_P4_82387_21524134	NC_021165.1	Ca_kabuli_chr06	21524134	CC	TT	1946864460
SNP_P4_82388_21524150	NC_021165.1	Ca_kabuli_chr06	21524150	CC	TT	1946864462
SNP_P4_82389_21524187	NC_021165.1	Ca_kabuli_chr06	21524187	GG	AA	1946864464
SNP_P4_82390_21524492	NC_021165.1	Ca_kabuli_chr06	21524492	GG	AA	1946864466
SNP_P4_82391_21524497	NC_021165.1	Ca_kabuli_chr06	21524497	CC	TT	1946864468
SNP_P4_82392_21524821	NC_021165.1	Ca_kabuli_chr06	21524821	CC	TT	1946864470
SNP_P4_82393_21530719	NC_021165.1	Ca_kabuli_chr06	21530719	AA	GG	1946864472
SNP_P4_82394_21530732	NC_021165.1	Ca_kabuli_chr06	21530732	CC	TT	1946864474
SNP_P4_82395_21530779	NC_021165.1	Ca_kabuli_chr06	21530779	GG	AA	1946864476
SNP_P4_82396_21530926	NC_021165.1	Ca_kabuli_chr06	21530926	TT	CC	1946864478
SNP_P4_82397_21548519	NC_021165.1	Ca_kabuli_chr06	21548519	GG	AA	1946864479
SNP_P4_82400_21606137	NC_021165.1	Ca_kabuli_chr06	21606137	AA	GG	1946864481
SNP_P4_82401_21620815	NC_021165.1	Ca_kabuli_chr06	21620815	GG	TT	1946864483

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_82403_21634205	NC_021165.1	Ca_kabuli_chr06	21634205	AA	GG	1946864487
SNP_P4_82405_21693307	NC_021165.1	Ca_kabuli_chr06	21693307	TT	AA	1946864489
SNP_P4_82406_21697946	NC_021165.1	Ca_kabuli_chr06	21697946	TT	CC	1946864491
SNP_P4_82407_21719297	NC_021165.1	Ca_kabuli_chr06	21719297	AA	TT	1946864493
SNP_P4_82408_21734299	NC_021165.1	Ca_kabuli_chr06	21734299	CC	TT	1946864495
SNP_P4_82410_21744829	NC_021165.1	Ca_kabuli_chr06	21744829	AA	CC	1946864497
SNP_P4_82411_21745528	NC_021165.1	Ca_kabuli_chr06	21745528	TT	CC	1946864499
SNP_P4_82412_21755722	NC_021165.1	Ca_kabuli_chr06	21755722	TT	CC	1946864501
SNP_P4_82413_21756152	NC_021165.1	Ca_kabuli_chr06	21756152	TT	CC	1946864503
SNP_P4_82414_21767950	NC_021165.1	Ca_kabuli_chr06	21767950	AA	GG	1946864505
SNP_P4_82416_21769740	NC_021165.1	Ca_kabuli_chr06	21769740	CC	AA	1946864507
SNP_P4_82417_21773418	NC_021165.1	Ca_kabuli_chr06	21773418	CC	AA	1946864509
SNP_P4_82418_21777523	NC_021165.1	Ca_kabuli_chr06	21777523	TT	AA	1946864511
SNP_P4_82419_21777722	NC_021165.1	Ca_kabuli_chr06	21777722	AA	TT	1946864513
SNP_P4_82422_21778900	NC_021165.1	Ca_kabuli_chr06	21778900	CC	GG	1946864515
SNP_P4_82423_21779163	NC_021165.1	Ca_kabuli_chr06	21779163	TT	CC	1946864517
SNP_P4_82424_21779191	NC_021165.1	Ca_kabuli_chr06	21779191	AA	GG	1946864519
SNP_P4_82425_21779194	NC_021165.1	Ca_kabuli_chr06	21779194	TT	AA	1946864521
SNP_P4_82426_21779618	NC_021165.1	Ca_kabuli_chr06	21779618	AA	CC	1946864523
SNP_P4_82428_21782460	NC_021165.1	Ca_kabuli_chr06	21782460	TT	CC	1946864525
SNP_P4_82429_21782519	NC_021165.1	Ca_kabuli_chr06	21782519	CC	AA	1946864527
SNP_P4_82430_21782533	NC_021165.1	Ca_kabuli_chr06	21782533	TT	AA	1946864529
SNP_P4_82431_21782554	NC_021165.1	Ca_kabuli_chr06	21782554	TT	AA	1946864531
SNP_P4_82432_21782797	NC_021165.1	Ca_kabuli_chr06	21782797	AA	GG	1946864533
SNP_P4_82433_21782811	NC_021165.1	Ca_kabuli_chr06	21782811	TT	CC	1946864535
SNP_P4_82435_21782830	NC_021165.1	Ca_kabuli_chr06	21782830	TT	AA	1946864537
SNP_P4_82436_21782973	NC_021165.1	Ca_kabuli_chr06	21782973	GG	CC	1946864539
SNP_P4_82437_21790005	NC_021165.1	Ca_kabuli_chr06	21790005	GG	AA	1946864541
SNP_P4_82438_21792069	NC_021165.1	Ca_kabuli_chr06	21792069	AA	GG	1946864543
SNP_P4_82439_21792091	NC_021165.1	Ca_kabuli_chr06	21792091	GG	AA	1946864545
SNP_P4_82440_21792112	NC_021165.1	Ca_kabuli_chr06	21792112	AA	TT	1946864547
SNP_P4_82441_21792168	NC_021165.1	Ca_kabuli_chr06	21792168	TT	AA	1946864549
SNP_P4_82442_21792499	NC_021165.1	Ca_kabuli_chr06	21792499	TT	AA	1946864551
SNP_P4_82443_21793888	NC_021165.1	Ca_kabuli_chr06	21793888	TT	AA	1946864553
SNP_P4_82444_21793901	NC_021165.1	Ca_kabuli_chr06	21793901	TT	AA	1946864555
SNP_P4_82445_21793920	NC_021165.1	Ca_kabuli_chr06	21793920	GG	AA	1946864557
SNP_P4_82446_21794085	NC_021165.1	Ca_kabuli_chr06	21794085	TT	CC	1946864559
SNP_P4_82447_21794133	NC_021165.1	Ca_kabuli_chr06	21794133	TT	AA	1946864561
SNP_P4_82448_21794135	NC_021165.1	Ca_kabuli_chr06	21794135	TT	CC	1946864563
SNP_P4_82449_21794148	NC_021165.1	Ca_kabuli_chr06	21794148	CC	TT	1946864565
SNP_P4_82450_21795210	NC_021165.1	Ca_kabuli_chr06	21795210	AA	CC	1946864567

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_82452_21795305	NC_021165.1	Ca_kabuli_chr06	21795305	AA	GG	1946864571
SNP_P4_82453_21795308	NC_021165.1	Ca_kabuli_chr06	21795308	GG	AA	1946864573
SNP_P4_82455_21799061	NC_021165.1	Ca_kabuli_chr06	21799061	TT	GG	1946864575
SNP_P4_82457_21799263	NC_021165.1	Ca_kabuli_chr06	21799263	TT	GG	1946864577
SNP_P4_82458_21800428	NC_021165.1	Ca_kabuli_chr06	21800428	TT	CC	1946864579
SNP_P4_82459_21801075	NC_021165.1	Ca_kabuli_chr06	21801075	TT	CC	1946864581
SNP_P4_82460_21801121	NC_021165.1	Ca_kabuli_chr06	21801121	TT	CC	1946864583
SNP_P4_82461_21801134	NC_021165.1	Ca_kabuli_chr06	21801134	CC	TT	1946864585
SNP_P4_82462_21801413	NC_021165.1	Ca_kabuli_chr06	21801413	CC	GG	1946864587
SNP_P4_82464_21801729	NC_021165.1	Ca_kabuli_chr06	21801729	CC	GG	1946864589
SNP_P4_82465_21801821	NC_021165.1	Ca_kabuli_chr06	21801821	GG	AA	1946864591
SNP_P4_82466_21801962	NC_021165.1	Ca_kabuli_chr06	21801962	AA	TT	1946864593
SNP_P4_82467_21802153	NC_021165.1	Ca_kabuli_chr06	21802153	CC	AA	1946864595
SNP_P4_82468_21802455	NC_021165.1	Ca_kabuli_chr06	21802455	AA	CC	1946864598
SNP_P4_82469_21802502	NC_021165.1	Ca_kabuli_chr06	21802502	AA	GG	1946864600
SNP_P4_82470_21803812	NC_021165.1	Ca_kabuli_chr06	21803812	CC	TT	1946864602
SNP_P4_82471_21803829	NC_021165.1	Ca_kabuli_chr06	21803829	TT	CC	1946864604
SNP_P4_82472_21804337	NC_021165.1	Ca_kabuli_chr06	21804337	GG	CC	1946864606
SNP_P4_82473_21804400	NC_021165.1	Ca_kabuli_chr06	21804400	GG	TT	1946864608
SNP_P4_82474_21804476	NC_021165.1	Ca_kabuli_chr06	21804476	TT	CC	1946864610
SNP_P4_82475_21804510	NC_021165.1	Ca_kabuli_chr06	21804510	CC	TT	1946864612
SNP_P4_82476_21804563	NC_021165.1	Ca_kabuli_chr06	21804563	GG	AA	1946864614
SNP_P4_82477_21804827	NC_021165.1	Ca_kabuli_chr06	21804827	TT	GG	1946864616
SNP_P4_82478_21805168	NC_021165.1	Ca_kabuli_chr06	21805168	AA	GG	1946864618
SNP_P4_82479_21805483	NC_021165.1	Ca_kabuli_chr06	21805483	CC	TT	1946864620
SNP_P4_82480_21808285	NC_021165.1	Ca_kabuli_chr06	21808285	TT	CC	1946864622
SNP_P4_82481_21811041	NC_021165.1	Ca_kabuli_chr06	21811041	AA	GG	1946864624
SNP_P4_82483_21818802	NC_021165.1	Ca_kabuli_chr06	21818802	GG	AA	1946864626
SNP_P4_82484_21822449	NC_021165.1	Ca_kabuli_chr06	21822449	TT	CC	1946864628
SNP_P4_82485_21822458	NC_021165.1	Ca_kabuli_chr06	21822458	TT	GG	1946864630
SNP_P4_82486_21822549	NC_021165.1	Ca_kabuli_chr06	21822549	GG	AA	1946864632
SNP_P4_82487_21822597	NC_021165.1	Ca_kabuli_chr06	21822597	AA	GG	1946864634
SNP_P4_82489_21822777	NC_021165.1	Ca_kabuli_chr06	21822777	GG	TT	1946864636
SNP_P4_82490_21822824	NC_021165.1	Ca_kabuli_chr06	21822824	GG	TT	1946864638
SNP_P4_82491_21822895	NC_021165.1	Ca_kabuli_chr06	21822895	AA	GG	1946864640
SNP_P4_82492_21822935	NC_021165.1	Ca_kabuli_chr06	21822935	TT	GG	1946864642
SNP_P4_82493_21822970	NC_021165.1	Ca_kabuli_chr06	21822970	TT	GG	1946864644
SNP_P4_82494_21822978	NC_021165.1	Ca_kabuli_chr06	21822978	AA	GG	1946864646
SNP_P4_82495_21822991	NC_021165.1	Ca_kabuli_chr06	21822991	TT	CC	1946864648
SNP_P4_82496_21823034	NC_021165.1	Ca_kabuli_chr06	21823034	GG	TT	1946864650
SNP_P4_82497_21823509	NC_021165.1	Ca_kabuli_chr06	21823509	AA	GG	1946864652

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_82499_21846216	NC_021165.1	Ca_kabuli_chr06	21846216	GG	AA	1946864656
SNP_P4_82500_21849679	NC_021165.1	Ca_kabuli_chr06	21849679	GG	AA	1946864658
SNP_P4_82501_21855302	NC_021165.1	Ca_kabuli_chr06	21855302	AA	CC	1946864660
SNP_P4_82502_21865426	NC_021165.1	Ca_kabuli_chr06	21865426	GG	TT	1946864662
SNP_P4_82503_21881581	NC_021165.1	Ca_kabuli_chr06	21881581	GG	AA	1946864664
SNP_P4_82504_21889070	NC_021165.1	Ca_kabuli_chr06	21889070	AA	GG	1946864681
SNP_P4_82505_21889091	NC_021165.1	Ca_kabuli_chr06	21889091	GG	CC	1946864683
SNP_P4_82508_21902555	NC_021165.1	Ca_kabuli_chr06	21902555	AA	GG	1946864685
SNP_P4_82509_21906402	NC_021165.1	Ca_kabuli_chr06	21906402	CC	TT	1946864687
SNP_P4_82510_21909381	NC_021165.1	Ca_kabuli_chr06	21909381	AA	TT	1946864689
SNP_P4_82513_21928121	NC_021165.1	Ca_kabuli_chr06	21928121	TT	AA	1946864691
SNP_P4_82514_21936134	NC_021165.1	Ca_kabuli_chr06	21936134	TT	CC	1946864693
SNP_P4_82515_21942206	NC_021165.1	Ca_kabuli_chr06	21942206	GG	AA	1946864695
SNP_P4_82516_21943826	NC_021165.1	Ca_kabuli_chr06	21943826	TT	CC	1946864697
SNP_P4_82517_21952623	NC_021165.1	Ca_kabuli_chr06	21952623	TT	CC	1946864699
SNP_P4_82518_21956368	NC_021165.1	Ca_kabuli_chr06	21956368	CC	TT	1946864701
SNP_P4_82519_21966291	NC_021165.1	Ca_kabuli_chr06	21966291	AA	TT	1946864703
SNP_P4_82520_21982061	NC_021165.1	Ca_kabuli_chr06	21982061	TT	GG	1946864705
SNP_P4_82522_21989714	NC_021165.1	Ca_kabuli_chr06	21989714	CC	AA	1946864707
SNP_P4_82523_21994167	NC_021165.1	Ca_kabuli_chr06	21994167	AA	GG	1946864709
SNP_P4_82524_21994168	NC_021165.1	Ca_kabuli_chr06	21994168	AA	GG	1946864711
SNP_P4_82525_21994469	NC_021165.1	Ca_kabuli_chr06	21994469	GG	AA	1946864713
SNP_P4_82526_22010102	NC_021165.1	Ca_kabuli_chr06	22010102	AA	GG	1946864715
SNP_P4_82527_22027885	NC_021165.1	Ca_kabuli_chr06	22027885	TT	AA	1946864717
SNP_P4_82529_22047435	NC_021165.1	Ca_kabuli_chr06	22047435	AA	CC	1946864719
SNP_P4_82530_22047438	NC_021165.1	Ca_kabuli_chr06	22047438	TT	CC	1946864721
SNP_P4_82531_22067988	NC_021165.1	Ca_kabuli_chr06	22067988	CC	AA	1946864723
SNP_P4_82533_22099385	NC_021165.1	Ca_kabuli_chr06	22099385	TT	CC	1946864725
SNP_P4_82535_22099758	NC_021165.1	Ca_kabuli_chr06	22099758	TT	CC	1946864727
SNP_P4_82536_22117994	NC_021165.1	Ca_kabuli_chr06	22117994	CC	TT	1946864729
SNP_P4_82539_22129033	NC_021165.1	Ca_kabuli_chr06	22129033	AA	GG	1946864731
SNP_P4_82540_22129323	NC_021165.1	Ca_kabuli_chr06	22129323	TT	CC	1946864733
SNP_P4_82541_22130437	NC_021165.1	Ca_kabuli_chr06	22130437	GG	TT	1946864735
SNP_P4_82542_22152241	NC_021165.1	Ca_kabuli_chr06	22152241	TT	AA	1946864737
SNP_P4_82543_22152243	NC_021165.1	Ca_kabuli_chr06	22152243	TT	CC	1946864739
SNP_P4_82544_22152775	NC_021165.1	Ca_kabuli_chr06	22152775	AA	GG	1946864741
SNP_P4_82545_22195743	NC_021165.1	Ca_kabuli_chr06	22195743	AA	GG	1946864743
SNP_P4_82546_22197194	NC_021165.1	Ca_kabuli_chr06	22197194	CC	AA	1946864745
SNP_P4_82547_22225647	NC_021165.1	Ca_kabuli_chr06	22225647	TT	GG	1946864748
SNP_P4_82548_22225720	NC_021165.1	Ca_kabuli_chr06	22225720	TT	CC	1946864750
SNP_P4_82549_22231737	NC_021165.1	Ca_kabuli_chr06	22231737	AA	TT	1946864752

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_82551_22252319	NC_021165.1	Ca_kabuli_chr06	22252319	GG	AA	1946864757
SNP_P4_82552_22252699	NC_021165.1	Ca_kabuli_chr06	22252699	TT	GG	1946864759
SNP_P4_82553_22252717	NC_021165.1	Ca_kabuli_chr06	22252717	AA	GG	1946864761
SNP_P4_82554_22285519	NC_021165.1	Ca_kabuli_chr06	22285519	AA	TT	1946864763
SNP_P4_82555_22285520	NC_021165.1	Ca_kabuli_chr06	22285520	AA	TT	1946864765
SNP_P4_82556_22285521	NC_021165.1	Ca_kabuli_chr06	22285521	AA	TT	1946864767
SNP_P4_82557_22285522	NC_021165.1	Ca_kabuli_chr06	22285522	AA	TT	1946864769
SNP_P4_82558_22300833	NC_021165.1	Ca_kabuli_chr06	22300833	CC	TT	1946864771
SNP_P4_82559_22302195	NC_021165.1	Ca_kabuli_chr06	22302195	TT	AA	1946864773
SNP_P4_82560_22311253	NC_021165.1	Ca_kabuli_chr06	22311253	AA	TT	1946864775
SNP_P4_82561_22320396	NC_021165.1	Ca_kabuli_chr06	22320396	TT	CC	1946864777
SNP_P4_82562_22320417	NC_021165.1	Ca_kabuli_chr06	22320417	CC	TT	1946864779
SNP_P4_82563_22320451	NC_021165.1	Ca_kabuli_chr06	22320451	GG	AA	1946864781
SNP_P4_82564_22320565	NC_021165.1	Ca_kabuli_chr06	22320565	AA	TT	1946864783
SNP_P4_82565_22320802	NC_021165.1	Ca_kabuli_chr06	22320802	AA	GG	1946864785
SNP_P4_82566_22320807	NC_021165.1	Ca_kabuli_chr06	22320807	CC	TT	1946864787
SNP_P4_82567_22320823	NC_021165.1	Ca_kabuli_chr06	22320823	AA	GG	1946864789
SNP_P4_82568_22320935	NC_021165.1	Ca_kabuli_chr06	22320935	TT	CC	1946864791
SNP_P4_82569_22320959	NC_021165.1	Ca_kabuli_chr06	22320959	GG	AA	1946864793
SNP_P4_82570_22322638	NC_021165.1	Ca_kabuli_chr06	22322638	GG	AA	1946864795
SNP_P4_82571_22322954	NC_021165.1	Ca_kabuli_chr06	22322954	TT	CC	1946864797
SNP_P4_82572_22323031	NC_021165.1	Ca_kabuli_chr06	22323031	AA	GG	1946864799
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SNP_P4_82574_22323045	NC_021165.1	Ca_kabuli_chr06	22323045	TT	AA	1946864803
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SNP_P4_82576_22351809	NC_021165.1	Ca_kabuli_chr06	22351809	TT	GG	1946864808
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SNP_P4_82578_22370973	NC_021165.1	Ca_kabuli_chr06	22370973	TT	CC	1946864812
SNP_P4_82579_22391741	NC_021165.1	Ca_kabuli_chr06	22391741	TT	AA	1946864814
SNP_P4_82580_22393576	NC_021165.1	Ca_kabuli_chr06	22393576	TT	AA	1946864816
SNP_P4_82582_22415072	NC_021165.1	Ca_kabuli_chr06	22415072	AA	GG	1946864819
SNP_P4_82583_22415427	NC_021165.1	Ca_kabuli_chr06	22415427	TT	CC	1946864821
SNP_P4_82584_22415433	NC_021165.1	Ca_kabuli_chr06	22415433	AA	GG	1946864823
SNP_P4_82585_22415439	NC_021165.1	Ca_kabuli_chr06	22415439	TT	AA	1946864824
SNP_P4_82586_22415489	NC_021165.1	Ca_kabuli_chr06	22415489	TT	GG	1946864825
SNP_P4_82587_22419025	NC_021165.1	Ca_kabuli_chr06	22419025	AA	TT	1946864826
SNP_P4_82588_22419041	NC_021165.1	Ca_kabuli_chr06	22419041	GG	AA	1946864827
SNP_P4_82589_22419073	NC_021165.1	Ca_kabuli_chr06	22419073	AA	GG	1946864830
SNP_P4_82590_22419141	NC_021165.1	Ca_kabuli_chr06	22419141	TT	CC	1946864832
SNP_P4_82591_22419413	NC_021165.1	Ca_kabuli_chr06	22419413	CC	TT	1946864834
SNP_P4_82592_22419453	NC_021165.1	Ca_kabuli_chr06	22419453	AA	GG	1946864836

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_82595_22419483	NC_021165.1	Ca_kabuli_chr06	22419483	AA	GG	1946864843
SNP_P4_82596_22440821	NC_021165.1	Ca_kabuli_chr06	22440821	GG	AA	1946864845
SNP_P4_82597_22443618	NC_021165.1	Ca_kabuli_chr06	22443618	TT	CC	1946864848
SNP_P4_82598_22464326	NC_021165.1	Ca_kabuli_chr06	22464326	CC	TT	1946864850
SNP_P4_82599_22464621	NC_021165.1	Ca_kabuli_chr06	22464621	CC	TT	1946864852
SNP_P4_82600_22464661	NC_021165.1	Ca_kabuli_chr06	22464661	CC	TT	1946864854
SNP_P4_82601_22464676	NC_021165.1	Ca_kabuli_chr06	22464676	CC	TT	1946864856
SNP_P4_82602_22464728	NC_021165.1	Ca_kabuli_chr06	22464728	GG	AA	1946864858
SNP_P4_82604_22528611	NC_021165.1	Ca_kabuli_chr06	22528611	TT	CC	1946864860
SNP_P4_82605_22856885	NC_021165.1	Ca_kabuli_chr06	22856885	GG	TT	1946864862
SNP_P4_82606_22859127	NC_021165.1	Ca_kabuli_chr06	22859127	CC	TT	1946864863
SNP_P4_82607_22859442	NC_021165.1	Ca_kabuli_chr06	22859442	CC	TT	1946864865
SNP_P4_82608_22860720	NC_021165.1	Ca_kabuli_chr06	22860720	GG	AA	1946864867
SNP_P4_82609_22860726	NC_021165.1	Ca_kabuli_chr06	22860726	TT	CC	1946864870
SNP_P4_82610_22893878	NC_021165.1	Ca_kabuli_chr06	22893878	TT	GG	1946864871
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SNP_P4_82612_22898696	NC_021165.1	Ca_kabuli_chr06	22898696	CC	TT	1946864875
SNP_P4_82613_22906289	NC_021165.1	Ca_kabuli_chr06	22906289	AA	GG	1946864877
SNP_P4_82614_22926278	NC_021165.1	Ca_kabuli_chr06	22926278	AA	GG	1946864879
SNP_P4_82615_22926322	NC_021165.1	Ca_kabuli_chr06	22926322	TT	CC	1946864881
SNP_P4_82616_22926363	NC_021165.1	Ca_kabuli_chr06	22926363	AA	GG	1946864883
SNP_P4_82618_23004783	NC_021165.1	Ca_kabuli_chr06	23004783	GG	AA	1946864885
SNP_P4_82619_23009654	NC_021165.1	Ca_kabuli_chr06	23009654	TT	CC	1946864887
SNP_P4_82620_23038994	NC_021165.1	Ca_kabuli_chr06	23038994	TT	CC	1946864889
SNP_P4_82621_23039015	NC_021165.1	Ca_kabuli_chr06	23039015	TT	GG	1946864892
SNP_P4_82622_23039029	NC_021165.1	Ca_kabuli_chr06	23039029	TT	AA	1946864893
SNP_P4_82623_23039097	NC_021165.1	Ca_kabuli_chr06	23039097	TT	CC	1946864896
SNP_P4_82624_23039570	NC_021165.1	Ca_kabuli_chr06	23039570	TT	CC	1946864898
SNP_P4_82625_23039901	NC_021165.1	Ca_kabuli_chr06	23039901	TT	AA	1946864899
SNP_P4_82626_23039925	NC_021165.1	Ca_kabuli_chr06	23039925	AA	TT	1946864901
SNP_P4_82627_23039955	NC_021165.1	Ca_kabuli_chr06	23039955	AA	GG	1946864903
SNP_P4_82628_23039956	NC_021165.1	Ca_kabuli_chr06	23039956	GG	CC	1946864905
SNP_P4_82629_23039961	NC_021165.1	Ca_kabuli_chr06	23039961	CC	TT	1946864908
SNP_P4_82630_23040044	NC_021165.1	Ca_kabuli_chr06	23040044	TT	AA	1946864910
SNP_P4_82631_23040091	NC_021165.1	Ca_kabuli_chr06	23040091	TT	CC	1946864912
SNP_P4_82632_23040275	NC_021165.1	Ca_kabuli_chr06	23040275	GG	CC	1946864914
SNP_P4_82634_23040522	NC_021165.1	Ca_kabuli_chr06	23040522	TT	CC	1946864915
SNP_P4_82635_23040528	NC_021165.1	Ca_kabuli_chr06	23040528	AA	TT	1946864918
SNP_P4_82636_23040553	NC_021165.1	Ca_kabuli_chr06	23040553	TT	CC	1946864919
SNP_P4_82637_23042691	NC_021165.1	Ca_kabuli_chr06	23042691	AA	CC	1946864921

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_82641_23042883	NC_021165.1	Ca_kabuli_chr06	23042883	TT	AA	1946864925
SNP_P4_82642_23042940	NC_021165.1	Ca_kabuli_chr06	23042940	CC	TT	1946864928
SNP_P4_82644_23043052	NC_021165.1	Ca_kabuli_chr06	23043052	AA	GG	1946864930
SNP_P4_82645_23043057	NC_021165.1	Ca_kabuli_chr06	23043057	TT	AA	1946864932
SNP_P4_82646_23043135	NC_021165.1	Ca_kabuli_chr06	23043135	CC	TT	1946864934
SNP_P4_82647_23043419	NC_021165.1	Ca_kabuli_chr06	23043419	CC	TT	1946864936
SNP_P4_82648_23043424	NC_021165.1	Ca_kabuli_chr06	23043424	CC	TT	1946864938
SNP_P4_82649_23064545	NC_021165.1	Ca_kabuli_chr06	23064545	GG	AA	1946864940
SNP_P4_82650_23064629	NC_021165.1	Ca_kabuli_chr06	23064629	AA	GG	1946864942
SNP_P4_82651_23064737	NC_021165.1	Ca_kabuli_chr06	23064737	CC	TT	1946864944
SNP_P4_82653_23064793	NC_021165.1	Ca_kabuli_chr06	23064793	GG	AA	1946864946
SNP_P4_82654_23064885	NC_021165.1	Ca_kabuli_chr06	23064885	CC	TT	1946864948
SNP_P4_82656_23065059	NC_021165.1	Ca_kabuli_chr06	23065059	AA	TT	1946864950
SNP_P4_82657_23065124	NC_021165.1	Ca_kabuli_chr06	23065124	GG	CC	1946864952
SNP_P4_82658_23065269	NC_021165.1	Ca_kabuli_chr06	23065269	AA	GG	1946864954
SNP_P4_82659_23065312	NC_021165.1	Ca_kabuli_chr06	23065312	CC	TT	1946864956
SNP_P4_82660_23065314	NC_021165.1	Ca_kabuli_chr06	23065314	GG	AA	1946864958
SNP_P4_82661_23065419	NC_021165.1	Ca_kabuli_chr06	23065419	AA	GG	1946864960
SNP_P4_82662_23065568	NC_021165.1	Ca_kabuli_chr06	23065568	GG	TT	1946864962
SNP_P4_82663_23065600	NC_021165.1	Ca_kabuli_chr06	23065600	CC	TT	1946864964
SNP_P4_82664_23065664	NC_021165.1	Ca_kabuli_chr06	23065664	GG	CC	1946864966
SNP_P4_82665_23068304	NC_021165.1	Ca_kabuli_chr06	23068304	TT	CC	1946864968
SNP_P4_82666_23068644	NC_021165.1	Ca_kabuli_chr06	23068644	CC	AA	1946864970
SNP_P4_82667_23068776	NC_021165.1	Ca_kabuli_chr06	23068776	GG	AA	1946864972
SNP_P4_82668_23071023	NC_021165.1	Ca_kabuli_chr06	23071023	TT	AA	1946864974
SNP_P4_82669_23071162	NC_021165.1	Ca_kabuli_chr06	23071162	AA	GG	1946864976
SNP_P4_82670_23071228	NC_021165.1	Ca_kabuli_chr06	23071228	GG	AA	1946864978
SNP_P4_82671_23071245	NC_021165.1	Ca_kabuli_chr06	23071245	TT	AA	1946864980
SNP_P4_82672_23071397	NC_021165.1	Ca_kabuli_chr06	23071397	CC	TT	1946864982
SNP_P4_82673_23071801	NC_021165.1	Ca_kabuli_chr06	23071801	AA	TT	1946864984
SNP_P4_82674_23071808	NC_021165.1	Ca_kabuli_chr06	23071808	GG	TT	1946864986
SNP_P4_82675_23071819	NC_021165.1	Ca_kabuli_chr06	23071819	CC	AA	1946864988
SNP_P4_82676_23071863	NC_021165.1	Ca_kabuli_chr06	23071863	AA	GG	1946864990
SNP_P4_82677_23072016	NC_021165.1	Ca_kabuli_chr06	23072016	AA	GG	1946864992
SNP_P4_82678_23072075	NC_021165.1	Ca_kabuli_chr06	23072075	AA	GG	1946864994
SNP_P4_82679_23072084	NC_021165.1	Ca_kabuli_chr06	23072084	TT	CC	1946864996
SNP_P4_82680_23072245	NC_021165.1	Ca_kabuli_chr06	23072245	CC	TT	1946864998
SNP_P4_82681_23072825	NC_021165.1	Ca_kabuli_chr06	23072825	AA	GG	1946865000
SNP_P4_82682_23076895	NC_021165.1	Ca_kabuli_chr06	23076895	GG	AA	1946865001
SNP_P4_82683_23076995	NC_021165.1	Ca_kabuli_chr06	23076995	GG	AA	1946865003
SNP_P4_82684_23077170	NC_021165.1	Ca_kabuli_chr06	23077170	GG	AA	1946865005

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_82686_23077684	NC_021165.1	Ca_kabuli_chr06	23077684	AA	GG	1946865009
SNP_P4_82687_23077692	NC_021165.1	Ca_kabuli_chr06	23077692	GG	TT	1946865011
SNP_P4_82688_23077713	NC_021165.1	Ca_kabuli_chr06	23077713	TT	CC	1946865013
SNP_P4_82689_23077849	NC_021165.1	Ca_kabuli_chr06	23077849	AA	GG	1946865015
SNP_P4_82690_23077867	NC_021165.1	Ca_kabuli_chr06	23077867	CC	TT	1946865017
SNP_P4_82691_23078087	NC_021165.1	Ca_kabuli_chr06	23078087	TT	GG	1946865019
SNP_P4_82692_23078559	NC_021165.1	Ca_kabuli_chr06	23078559	GG	AA	1946865021
SNP_P4_82693_23078705	NC_021165.1	Ca_kabuli_chr06	23078705	GG	TT	1946865023
SNP_P4_82695_23078794	NC_021165.1	Ca_kabuli_chr06	23078794	CC	TT	1946865025
SNP_P4_82696_23078804	NC_021165.1	Ca_kabuli_chr06	23078804	GG	AA	1946865027
SNP_P4_82697_23078847	NC_021165.1	Ca_kabuli_chr06	23078847	TT	CC	1946865029
SNP_P4_82699_23078963	NC_021165.1	Ca_kabuli_chr06	23078963	CC	TT	1946865031
SNP_P4_82700_23078967	NC_021165.1	Ca_kabuli_chr06	23078967	TT	CC	1946865033
SNP_P4_82701_23079094	NC_021165.1	Ca_kabuli_chr06	23079094	TT	AA	1946865035
SNP_P4_82702_23079141	NC_021165.1	Ca_kabuli_chr06	23079141	TT	GG	1946865037
SNP_P4_82703_23085741	NC_021165.1	Ca_kabuli_chr06	23085741	CC	GG	1946865039
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SNP_P4_82705_23090267	NC_021165.1	Ca_kabuli_chr06	23090267	GG	AA	1946865043
SNP_P4_82706_23090475	NC_021165.1	Ca_kabuli_chr06	23090475	TT	AA	1946865045
SNP_P4_82708_23116417	NC_021165.1	Ca_kabuli_chr06	23116417	CC	TT	1946865047
SNP_P4_82709_23119085	NC_021165.1	Ca_kabuli_chr06	23119085	CC	TT	1946865049
SNP_P4_82710_23154739	NC_021165.1	Ca_kabuli_chr06	23154739	TT	AA	1946865051
SNP_P4_82711_23154793	NC_021165.1	Ca_kabuli_chr06	23154793	AA	GG	1946865053
SNP_P4_82712_23181621	NC_021165.1	Ca_kabuli_chr06	23181621	TT	GG	1946865055
SNP_P4_82713_23194041	NC_021165.1	Ca_kabuli_chr06	23194041	AA	GG	1946865057
SNP_P4_82714_23199009	NC_021165.1	Ca_kabuli_chr06	23199009	AA	GG	1946865059
SNP_P4_82715_23206864	NC_021165.1	Ca_kabuli_chr06	23206864	TT	AA	1946865062
SNP_P4_82716_23207714	NC_021165.1	Ca_kabuli_chr06	23207714	CC	AA	1946865064
SNP_P4_82717_23213265	NC_021165.1	Ca_kabuli_chr06	23213265	CC	TT	1946865066
SNP_P4_82718_23216357	NC_021165.1	Ca_kabuli_chr06	23216357	TT	CC	1946865068
SNP_P4_82720_23245627	NC_021165.1	Ca_kabuli_chr06	23245627	AA	GG	1946865070
SNP_P4_82721_23284176	NC_021165.1	Ca_kabuli_chr06	23284176	CC	TT	1946865072
SNP_P4_82722_23290405	NC_021165.1	Ca_kabuli_chr06	23290405	GG	TT	1946865074
SNP_P4_82724_23327901	NC_021165.1	Ca_kabuli_chr06	23327901	GG	TT	1946865076
SNP_P4_82725_23344004	NC_021165.1	Ca_kabuli_chr06	23344004	TT	GG	1946865078
SNP_P4_82727_23376289	NC_021165.1	Ca_kabuli_chr06	23376289	TT	CC	1946865080
SNP_P4_82728_23386456	NC_021165.1	Ca_kabuli_chr06	23386456	TT	GG	1946865082
SNP_P4_82729_23386460	NC_021165.1	Ca_kabuli_chr06	23386460	AA	CC	1946865083
SNP_P4_82730_23392059	NC_021165.1	Ca_kabuli_chr06	23392059	CC	TT	1946865085
SNP_P4_82731_23399514	NC_021165.1	Ca_kabuli_chr06	23399514	AA	CC	1946865087
SNP_P4_82732_23399515	NC_021165.1	Ca_kabuli_chr06	23399515	AA	GG	1946865089

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_82736_23442555	NC_021165.1	Ca_kabuli_chr06	23442555	TT	AA	1946865095
SNP_P4_82737_23443541	NC_021165.1	Ca_kabuli_chr06	23443541	AA	TT	1946865097
SNP_P4_82738_23500714	NC_021165.1	Ca_kabuli_chr06	23500714	GG	TT	1946865099
SNP_P4_82739_23530559	NC_021165.1	Ca_kabuli_chr06	23530559	CC	TT	1946865101
SNP_P4_82740_23572681	NC_021165.1	Ca_kabuli_chr06	23572681	GG	AA	1946865103
SNP_P4_82742_23589983	NC_021165.1	Ca_kabuli_chr06	23589983	GG	AA	1946865105
SNP_P4_82745_23671654	NC_021165.1	Ca_kabuli_chr06	23671654	AA	CC	1946865107
SNP_P4_82746_23680874	NC_021165.1	Ca_kabuli_chr06	23680874	AA	CC	1946865109
SNP_P4_82747_23681357	NC_021165.1	Ca_kabuli_chr06	23681357	AA	GG	1946865111
SNP_P4_82748_23692673	NC_021165.1	Ca_kabuli_chr06	23692673	CC	TT	1946865113
SNP_P4_82749_23701130	NC_021165.1	Ca_kabuli_chr06	23701130	GG	AA	1946865115
SNP_P4_82750_23719545	NC_021165.1	Ca_kabuli_chr06	23719545	AA	CC	1946865117
SNP_P4_82752_23754787	NC_021165.1	Ca_kabuli_chr06	23754787	TT	GG	1946865119
SNP_P4_82753_23755266	NC_021165.1	Ca_kabuli_chr06	23755266	CC	TT	1946865122
SNP_P4_82754_23755330	NC_021165.1	Ca_kabuli_chr06	23755330	CC	TT	1946865124
SNP_P4_82755_23755356	NC_021165.1	Ca_kabuli_chr06	23755356	TT	CC	1946865126
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SNP_P4_82758_23762178	NC_021165.1	Ca_kabuli_chr06	23762178	GG	TT	1946865132
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SNP_P4_82768_23936572	NC_021165.1	Ca_kabuli_chr06	23936572	GG	AA	1946865148
SNP_P4_82770_23984469	NC_021165.1	Ca_kabuli_chr06	23984469	GG	AA	1946865150
SNP_P4_82772_24027303	NC_021165.1	Ca_kabuli_chr06	24027303	GG	AA	1946865152
SNP_P4_82773_24049778	NC_021165.1	Ca_kabuli_chr06	24049778	AA	TT	1946865154
SNP_P4_82774_24082681	NC_021165.1	Ca_kabuli_chr06	24082681	GG	AA	1946865156
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SNP_P4_82776_24126167	NC_021165.1	Ca_kabuli_chr06	24126167	CC	AA	1946865160
SNP_P4_82777_24126183	NC_021165.1	Ca_kabuli_chr06	24126183	AA	GG	1946865162
SNP_P4_82778_24126217	NC_021165.1	Ca_kabuli_chr06	24126217	TT	CC	1946865164
SNP_P4_82779_24126242	NC_021165.1	Ca_kabuli_chr06	24126242	GG	AA	1946865166
SNP_P4_82780_24126253	NC_021165.1	Ca_kabuli_chr06	24126253	AA	TT	1946865169
SNP_P4_82781_24126258	NC_021165.1	Ca_kabuli_chr06	24126258	TT	AA	1946865170
SNP_P4_82782_24126262	NC_021165.1	Ca_kabuli_chr06	24126262	TT	AA	1946865172
SNP_P4_82783_24126287	NC_021165.1	Ca_kabuli_chr06	24126287	GG	AA	1946865174

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_82786_24126951	NC_021165.1	Ca_kabuli_chr06	24126951	CC	AA	1946865181
SNP_P4_82787_24127055	NC_021165.1	Ca_kabuli_chr06	24127055	AA	GG	1946865183
SNP_P4_82788_24127058	NC_021165.1	Ca_kabuli_chr06	24127058	AA	GG	1946865184
SNP_P4_82789_24127306	NC_021165.1	Ca_kabuli_chr06	24127306	CC	TT	1946865187
SNP_P4_82790_24127335	NC_021165.1	Ca_kabuli_chr06	24127335	AA	TT	1946865189
SNP_P4_82791_24127395	NC_021165.1	Ca_kabuli_chr06	24127395	TT	GG	1946865191
SNP_P4_82792_24127824	NC_021165.1	Ca_kabuli_chr06	24127824	TT	CC	1946865193
SNP_P4_82793_24162591	NC_021165.1	Ca_kabuli_chr06	24162591	TT	GG	1946865195
SNP_P4_82795_24208736	NC_021165.1	Ca_kabuli_chr06	24208736	CC	AA	1946865197
SNP_P4_82796_24208737	NC_021165.1	Ca_kabuli_chr06	24208737	TT	AA	1946865199
SNP_P4_82797_24208738	NC_021165.1	Ca_kabuli_chr06	24208738	AA	GG	1946865201
SNP_P4_82798_24208745	NC_021165.1	Ca_kabuli_chr06	24208745	TT	AA	1946865203
SNP_P4_82799_24209831	NC_021165.1	Ca_kabuli_chr06	24209831	AA	TT	1946865205
SNP_P4_82800_24210246	NC_021165.1	Ca_kabuli_chr06	24210246	TT	CC	1946865207
SNP_P4_82802_24235200	NC_021165.1	Ca_kabuli_chr06	24235200	AA	CC	1946865209
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SNP_P4_82806_24240764	NC_021165.1	Ca_kabuli_chr06	24240764	AA	GG	1946865217
SNP_P4_82807_24240780	NC_021165.1	Ca_kabuli_chr06	24240780	AA	GG	1946865219
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SNP_P4_82810_24240863	NC_021165.1	Ca_kabuli_chr06	24240863	AA	GG	1946865226
SNP_P4_82811_24240931	NC_021165.1	Ca_kabuli_chr06	24240931	TT	CC	1946865228
SNP_P4_82812_24241040	NC_021165.1	Ca_kabuli_chr06	24241040	CC	AA	1946865230
SNP_P4_82813_24241166	NC_021165.1	Ca_kabuli_chr06	24241166	AA	TT	1946865232
SNP_P4_82814_24241211	NC_021165.1	Ca_kabuli_chr06	24241211	AA	TT	1946865234
SNP_P4_82815_24241256	NC_021165.1	Ca_kabuli_chr06	24241256	TT	CC	1946865236
SNP_P4_82816_24241261	NC_021165.1	Ca_kabuli_chr06	24241261	CC	AA	1946865238
SNP_P4_82818_24241464	NC_021165.1	Ca_kabuli_chr06	24241464	GG	AA	1946865240
SNP_P4_82819_24241478	NC_021165.1	Ca_kabuli_chr06	24241478	AA	CC	1946865242
SNP_P4_82820_24241493	NC_021165.1	Ca_kabuli_chr06	24241493	AA	GG	1946865244
SNP_P4_82821_24241495	NC_021165.1	Ca_kabuli_chr06	24241495	CC	TT	1946865246
SNP_P4_82822_24241503	NC_021165.1	Ca_kabuli_chr06	24241503	AA	GG	1946865248
SNP_P4_82823_24241533	NC_021165.1	Ca_kabuli_chr06	24241533	GG	AA	1946865250
SNP_P4_82824_24241613	NC_021165.1	Ca_kabuli_chr06	24241613	TT	CC	1946865252
SNP_P4_82825_24241780	NC_021165.1	Ca_kabuli_chr06	24241780	GG	AA	1946865254
SNP_P4_82826_24241794	NC_021165.1	Ca_kabuli_chr06	24241794	TT	CC	1946865256
SNP_P4_82827_24241944	NC_021165.1	Ca_kabuli_chr06	24241944	GG	TT	1946865258
SNP_P4_82828_24241950	NC_021165.1	Ca_kabuli_chr06	24241950	CC	GG	1946865260

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_82830_24242088	NC_021165.1	Ca_kabuli_chr06	24242088	AA	GG	1946865264
SNP_P4_82832_24266107	NC_021165.1	Ca_kabuli_chr06	24266107	GG	CC	1946865266
SNP_P4_82835_24309681	NC_021165.1	Ca_kabuli_chr06	24309681	CC	TT	1946865268
SNP_P4_82837_24322651	NC_021165.1	Ca_kabuli_chr06	24322651	AA	GG	1946865270
SNP_P4_82838_24328932	NC_021165.1	Ca_kabuli_chr06	24328932	TT	CC	1946865272
SNP_P4_82839_24333298	NC_021165.1	Ca_kabuli_chr06	24333298	GG	AA	1946865274
SNP_P4_82840_24366677	NC_021165.1	Ca_kabuli_chr06	24366677	GG	AA	1946865276
SNP_P4_82841_24394339	NC_021165.1	Ca_kabuli_chr06	24394339	GG	TT	1946865278
SNP_P4_82842_24397174	NC_021165.1	Ca_kabuli_chr06	24397174	CC	TT	1946865280
SNP_P4_82843_24419833	NC_021165.1	Ca_kabuli_chr06	24419833	AA	GG	1946865282
SNP_P4_82844_24441492	NC_021165.1	Ca_kabuli_chr06	24441492	CC	AA	1946865284
SNP_P4_82845_24573040	NC_021165.1	Ca_kabuli_chr06	24573040	TT	AA	1946865286
SNP_P4_82846_24573042	NC_021165.1	Ca_kabuli_chr06	24573042	TT	CC	1946865287
SNP_P4_82848_24589380	NC_021165.1	Ca_kabuli_chr06	24589380	AA	GG	1946865289
SNP_P4_82849_24608085	NC_021165.1	Ca_kabuli_chr06	24608085	TT	GG	1946865291
SNP_P4_82850_24608391	NC_021165.1	Ca_kabuli_chr06	24608391	AA	CC	1946865293
SNP_P4_82852_24673216	NC_021165.1	Ca_kabuli_chr06	24673216	CC	TT	1946865295
SNP_P4_82853_24714578	NC_021165.1	Ca_kabuli_chr06	24714578	AA	GG	1946865297
SNP_P4_82854_24714626	NC_021165.1	Ca_kabuli_chr06	24714626	AA	GG	1946865299
SNP_P4_82855_24736246	NC_021165.1	Ca_kabuli_chr06	24736246	GG	CC	1946865301
SNP_P4_82856_24744265	NC_021165.1	Ca_kabuli_chr06	24744265	TT	CC	1946865303
SNP_P4_82858_24744619	NC_021165.1	Ca_kabuli_chr06	24744619	TT	GG	1946865305
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SNP_P4_82860_24756701	NC_021165.1	Ca_kabuli_chr06	24756701	TT	CC	1946865309
SNP_P4_82861_24757046	NC_021165.1	Ca_kabuli_chr06	24757046	GG	TT	1946865311
SNP_P4_82862_24757070	NC_021165.1	Ca_kabuli_chr06	24757070	AA	CC	1946865313
SNP_P4_82863_24770513	NC_021165.1	Ca_kabuli_chr06	24770513	CC	TT	1946865315
SNP_P4_82864_24770755	NC_021165.1	Ca_kabuli_chr06	24770755	TT	CC	1946865317
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SNP_P4_82866_24783300	NC_021165.1	Ca_kabuli_chr06	24783300	TT	CC	1946865321
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SNP_P4_82868_24856083	NC_021165.1	Ca_kabuli_chr06	24856083	AA	TT	1946865325
SNP_P4_82869_24857925	NC_021165.1	Ca_kabuli_chr06	24857925	TT	GG	1946865326
SNP_P4_82870_24857980	NC_021165.1	Ca_kabuli_chr06	24857980	GG	AA	1946865328
SNP_P4_82871_24869444	NC_021165.1	Ca_kabuli_chr06	24869444	GG	TT	1946865330
SNP_P4_82873_24876342	NC_021165.1	Ca_kabuli_chr06	24876342	CC	TT	1946865332
SNP_P4_82874_24876363	NC_021165.1	Ca_kabuli_chr06	24876363	TT	CC	1946865334
SNP_P4_82875_24884991	NC_021165.1	Ca_kabuli_chr06	24884991	TT	GG	1946865336
SNP_P4_82876_24902818	NC_021165.1	Ca_kabuli_chr06	24902818	AA	GG	1946865338
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SNP_P4_82878_24903405	NC_021165.1	Ca_kabuli_chr06	24903405	TT	AA	1946865342

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_82881_24904806	NC_021165.1	Ca_kabuli_chr06	24904806	AA	GG	1946865348
SNP_P4_82882_24905364	NC_021165.1	Ca_kabuli_chr06	24905364	CC	TT	1946865350
SNP_P4_82883_24905397	NC_021165.1	Ca_kabuli_chr06	24905397	GG	TT	1946865352
SNP_P4_82884_24919223	NC_021165.1	Ca_kabuli_chr06	24919223	AA	CC	1946865354
SNP_P4_82885_24930541	NC_021165.1	Ca_kabuli_chr06	24930541	GG	AA	1946865356
SNP_P4_82886_24941433	NC_021165.1	Ca_kabuli_chr06	24941433	AA	GG	1946865358
SNP_P4_82887_24941531	NC_021165.1	Ca_kabuli_chr06	24941531	CC	TT	1946865360
SNP_P4_82888_24942001	NC_021165.1	Ca_kabuli_chr06	24942001	CC	TT	1946865362
SNP_P4_82889_24942116	NC_021165.1	Ca_kabuli_chr06	24942116	AA	GG	1946865364
SNP_P4_82890_24942129	NC_021165.1	Ca_kabuli_chr06	24942129	TT	CC	1946865365
SNP_P4_82891_24942137	NC_021165.1	Ca_kabuli_chr06	24942137	GG	AA	1946865367
SNP_P4_82892_24948287	NC_021165.1	Ca_kabuli_chr06	24948287	GG	AA	1946865369
SNP_P4_82893_24948288	NC_021165.1	Ca_kabuli_chr06	24948288	TT	AA	1946865371
SNP_P4_82894_24952724	NC_021165.1	Ca_kabuli_chr06	24952724	GG	TT	1946865373
SNP_P4_82895_24952744	NC_021165.1	Ca_kabuli_chr06	24952744	AA	GG	1946865375
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SNP_P4_82900_25067467	NC_021165.1	Ca_kabuli_chr06	25067467	TT	CC	1946865382
SNP_P4_82901_25067495	NC_021165.1	Ca_kabuli_chr06	25067495	GG	AA	1946865384
SNP_P4_82902_25069187	NC_021165.1	Ca_kabuli_chr06	25069187	TT	CC	1946865386
SNP_P4_82903_25069583	NC_021165.1	Ca_kabuli_chr06	25069583	AA	CC	1946865388
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SNP_P4_82907_25131149	NC_021165.1	Ca_kabuli_chr06	25131149	AA	CC	1946865394
SNP_P4_82908_25131182	NC_021165.1	Ca_kabuli_chr06	25131182	GG	TT	1946865396
SNP_P4_82909_25131380	NC_021165.1	Ca_kabuli_chr06	25131380	TT	AA	1946865397
SNP_P4_82910_25131528	NC_021165.1	Ca_kabuli_chr06	25131528	TT	CC	1946865399
SNP_P4_82911_25131544	NC_021165.1	Ca_kabuli_chr06	25131544	TT	AA	1946865401
SNP_P4_82912_25162778	NC_021165.1	Ca_kabuli_chr06	25162778	CC	TT	1946865403
SNP_P4_82913_25199749	NC_021165.1	Ca_kabuli_chr06	25199749	TT	AA	1946865405
SNP_P4_82914_25199751	NC_021165.1	Ca_kabuli_chr06	25199751	TT	AA	1946865407
SNP_P4_82915_25209904	NC_021165.1	Ca_kabuli_chr06	25209904	CC	TT	1946865409
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SNP_P4_82917_25209931	NC_021165.1	Ca_kabuli_chr06	25209931	CC	TT	1946865413
SNP_P4_82918_25209958	NC_021165.1	Ca_kabuli_chr06	25209958	CC	AA	1946865415
SNP_P4_82919_25212720	NC_021165.1	Ca_kabuli_chr06	25212720	CC	TT	1946865417
SNP_P4_82920_25212822	NC_021165.1	Ca_kabuli_chr06	25212822	TT	CC	1946865419
SNP_P4_82921_25216080	NC_021165.1	Ca_kabuli_chr06	25216080	TT	CC	1946865421
SNP_P4_82922_25230559	NC_021165.1	Ca_kabuli_chr06	25230559	GG	AA	1946865423

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_82925_25272033	NC_021165.1	Ca_kabuli_chr06	25272033	AA	GG	1946865429
SNP_P4_82926_25272092	NC_021165.1	Ca_kabuli_chr06	25272092	CC	GG	1946865431
SNP_P4_82927_25272093	NC_021165.1	Ca_kabuli_chr06	25272093	AA	TT	1946865433
SNP_P4_82928_25272105	NC_021165.1	Ca_kabuli_chr06	25272105	TT	CC	1946865435
SNP_P4_82929_25272112	NC_021165.1	Ca_kabuli_chr06	25272112	AA	GG	1946865437
SNP_P4_82930_25272114	NC_021165.1	Ca_kabuli_chr06	25272114	TT	AA	1946865439
SNP_P4_82931_25272480	NC_021165.1	Ca_kabuli_chr06	25272480	AA	CC	1946865441
SNP_P4_82932_25272484	NC_021165.1	Ca_kabuli_chr06	25272484	AA	GG	1946865443
SNP_P4_82933_25298917	NC_021165.1	Ca_kabuli_chr06	25298917	CC	TT	1946865445
SNP_P4_82934_25300226	NC_021165.1	Ca_kabuli_chr06	25300226	TT	AA	1946865447
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SNP_P4_82936_25300272	NC_021165.1	Ca_kabuli_chr06	25300272	TT	CC	1946865451
SNP_P4_82937_25300288	NC_021165.1	Ca_kabuli_chr06	25300288	TT	GG	1946865453
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SNP_P4_82953_25314874	NC_021165.1	Ca_kabuli_chr06	25314874	AA	TT	1946865483
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SNP_P4_82960_25324979	NC_021165.1	Ca_kabuli_chr06	25324979	TT	GG	1946865497
SNP_P4_82961_25325248	NC_021165.1	Ca_kabuli_chr06	25325248	CC	TT	1946865499
SNP_P4_82962_25325249	NC_021165.1	Ca_kabuli_chr06	25325249	TT	CC	1946865501
SNP_P4_82963_25325275	NC_021165.1	Ca_kabuli_chr06	25325275	GG	AA	1946865502
SNP_P4_82964_25325293	NC_021165.1	Ca_kabuli_chr06	25325293	AA	TT	1946865504
SNP_P4_82965_25325314	NC_021165.1	Ca_kabuli_chr06	25325314	CC	TT	1946865506

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_82968_25325410	NC_021165.1	Ca_kabuli_chr06	25325410	TT	CC	1946865512
SNP_P4_82969_25325418	NC_021165.1	Ca_kabuli_chr06	25325418	TT	CC	1946865515
SNP_P4_82970_25325502	NC_021165.1	Ca_kabuli_chr06	25325502	AA	CC	1946865517
SNP_P4_82971_25330087	NC_021165.1	Ca_kabuli_chr06	25330087	AA	TT	1946865519
SNP_P4_82972_25330157	NC_021165.1	Ca_kabuli_chr06	25330157	CC	GG	1946865521
SNP_P4_82973_25336105	NC_021165.1	Ca_kabuli_chr06	25336105	TT	CC	1946865523
SNP_P4_82974_25337974	NC_021165.1	Ca_kabuli_chr06	25337974	AA	GG	1946865525
SNP_P4_82975_25344708	NC_021165.1	Ca_kabuli_chr06	25344708	GG	AA	1946865527
SNP_P4_82976_25352458	NC_021165.1	Ca_kabuli_chr06	25352458	AA	TT	1946865529
SNP_P4_82977_25352513	NC_021165.1	Ca_kabuli_chr06	25352513	AA	TT	1946865531
SNP_P4_82978_25352555	NC_021165.1	Ca_kabuli_chr06	25352555	GG	AA	1946865533
SNP_P4_82979_25352576	NC_021165.1	Ca_kabuli_chr06	25352576	TT	AA	1946865535
SNP_P4_82980_25356064	NC_021165.1	Ca_kabuli_chr06	25356064	TT	CC	1946865537
SNP_P4_82981_25356080	NC_021165.1	Ca_kabuli_chr06	25356080	CC	AA	1946865539
SNP_P4_82982_25356096	NC_021165.1	Ca_kabuli_chr06	25356096	TT	CC	1946865541
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SNP_P4_82990_25501563	NC_021165.1	Ca_kabuli_chr06	25501563	CC	GG	1946865552
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SNP_P4_82997_25548298	NC_021165.1	Ca_kabuli_chr06	25548298	TT	AA	1946865565
SNP_P4_82998_25548722	NC_021165.1	Ca_kabuli_chr06	25548722	GG	AA	1946865567
SNP_P4_82999_25549570	NC_021165.1	Ca_kabuli_chr06	25549570	CC	AA	1946865569
SNP_P4_83000_25549592	NC_021165.1	Ca_kabuli_chr06	25549592	CC	TT	1946865571
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SNP_P4_83002_25549602	NC_021165.1	Ca_kabuli_chr06	25549602	TT	CC	1946865575
SNP_P4_83003_25549620	NC_021165.1	Ca_kabuli_chr06	25549620	GG	TT	1946865576
SNP_P4_83004_25549639	NC_021165.1	Ca_kabuli_chr06	25549639	TT	CC	1946865578
SNP_P4_83005_25549666	NC_021165.1	Ca_kabuli_chr06	25549666	TT	CC	1946865580
SNP_P4_83006_25549678	NC_021165.1	Ca_kabuli_chr06	25549678	TT	AA	1946865582
SNP_P4_83007_25549693	NC_021165.1	Ca_kabuli_chr06	25549693	TT	CC	1946865584
SNP_P4_83008_25549711	NC_021165.1	Ca_kabuli_chr06	25549711	TT	CC	1946865586
SNP_P4_83009_25549712	NC_021165.1	Ca_kabuli_chr06	25549712	TT	CC	1946865588

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_83010_25549744	NC_021165.1	Ca_kabuli_chr06	25549744	AA	GG	1946865590
SNP_P4_83011_25549798	NC_021165.1	Ca_kabuli_chr06	25549798	TT	CC	1946865592
SNP_P4_83012_25549801	NC_021165.1	Ca_kabuli_chr06	25549801	TT	GG	1946865594
SNP_P4_83013_25549807	NC_021165.1	Ca_kabuli_chr06	25549807	GG	AA	1946865596
SNP_P4_83014_25549825	NC_021165.1	Ca_kabuli_chr06	25549825	AA	GG	1946865598
SNP_P4_83015_25549831	NC_021165.1	Ca_kabuli_chr06	25549831	CC	TT	1946865600
SNP_P4_83016_25549834	NC_021165.1	Ca_kabuli_chr06	25549834	GG	AA	1946865602
SNP_P4_83017_25549837	NC_021165.1	Ca_kabuli_chr06	25549837	AA	GG	1946865604
SNP_P4_83018_25549970	NC_021165.1	Ca_kabuli_chr06	25549970	GG	AA	1946865606
SNP_P4_83019_25550043	NC_021165.1	Ca_kabuli_chr06	25550043	CC	AA	1946865608
SNP_P4_83020_25550081	NC_021165.1	Ca_kabuli_chr06	25550081	AA	GG	1946865610
SNP_P4_83021_25550087	NC_021165.1	Ca_kabuli_chr06	25550087	CC	TT	1946865612
SNP_P4_83022_25550090	NC_021165.1	Ca_kabuli_chr06	25550090	CC	TT	1946865614
SNP_P4_83023_25550123	NC_021165.1	Ca_kabuli_chr06	25550123	TT	AA	1946865616
SNP_P4_83024_25550126	NC_021165.1	Ca_kabuli_chr06	25550126	AA	GG	1946865618
SNP_P4_83025_25550132	NC_021165.1	Ca_kabuli_chr06	25550132	GG	AA	1946865620
SNP_P4_83026_25550189	NC_021165.1	Ca_kabuli_chr06	25550189	AA	GG	1946865622
SNP_P4_83027_25569675	NC_021165.1	Ca_kabuli_chr06	25569675	TT	CC	1946865623
SNP_P4_83028_25569990	NC_021165.1	Ca_kabuli_chr06	25569990	TT	GG	1946865625
SNP_P4_83029_25570033	NC_021165.1	Ca_kabuli_chr06	25570033	AA	GG	1946865627
SNP_P4_83030_25570179	NC_021165.1	Ca_kabuli_chr06	25570179	TT	CC	1946865629
SNP_P4_83031_25572462	NC_021165.1	Ca_kabuli_chr06	25572462	AA	GG	1946865631
SNP_P4_83032_25572471	NC_021165.1	Ca_kabuli_chr06	25572471	GG	AA	1946865633
SNP_P4_83033_25572473	NC_021165.1	Ca_kabuli_chr06	25572473	AA	TT	1946865635
SNP_P4_83034_25572494	NC_021165.1	Ca_kabuli_chr06	25572494	GG	AA	1946865637
SNP_P4_83035_25573599	NC_021165.1	Ca_kabuli_chr06	25573599	CC	AA	1946865639
SNP_P4_83037_25595905	NC_021165.1	Ca_kabuli_chr06	25595905	TT	CC	1946865641
SNP_P4_83038_25595906	NC_021165.1	Ca_kabuli_chr06	25595906	AA	GG	1946865643
SNP_P4_83039_25599512	NC_021165.1	Ca_kabuli_chr06	25599512	AA	TT	1946865644
SNP_P4_83040_25611670	NC_021165.1	Ca_kabuli_chr06	25611670	AA	CC	1946865646
SNP_P4_83041_25612477	NC_021165.1	Ca_kabuli_chr06	25612477	TT	AA	1946865648
SNP_P4_83042_25613292	NC_021165.1	Ca_kabuli_chr06	25613292	TT	AA	1946865650
SNP_P4_83043_25624727	NC_021165.1	Ca_kabuli_chr06	25624727	CC	TT	1946865652
SNP_P4_83044_25624741	NC_021165.1	Ca_kabuli_chr06	25624741	GG	TT	1946865654
SNP_P4_83045_25626097	NC_021165.1	Ca_kabuli_chr06	25626097	GG	AA	1946865656
SNP_P4_83046_25638387	NC_021165.1	Ca_kabuli_chr06	25638387	TT	CC	1946865658
SNP_P4_83047_25638459	NC_021165.1	Ca_kabuli_chr06	25638459	CC	TT	1946865660
SNP_P4_83048_25638748	NC_021165.1	Ca_kabuli_chr06	25638748	TT	GG	1946865662
SNP_P4_83049_25638757	NC_021165.1	Ca_kabuli_chr06	25638757	TT	AA	1946865664
SNP_P4_83050_25639623	NC_021165.1	Ca_kabuli_chr06	25639623	CC	AA	1946865665
SNP_P4_83051_25643992	NC_021165.1	Ca_kabuli_chr06	25643992	GG	AA	1946865667
SNP_P4_83052_25645208	NC_021165.1	Ca_kabuli_chr06	25645208	TT	GG	1946865669

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_83054_25650952	NC_021165.1	Ca_kabuli_chr06	25650952	AA	TT	1946865673
SNP_P4_83055_25659933	NC_021165.1	Ca_kabuli_chr06	25659933	GG	AA	1946865675
SNP_P4_83056_25663581	NC_021165.1	Ca_kabuli_chr06	25663581	TT	AA	1946865677
SNP_P4_83057_25671405	NC_021165.1	Ca_kabuli_chr06	25671405	TT	AA	1946865679
SNP_P4_83058_25671453	NC_021165.1	Ca_kabuli_chr06	25671453	AA	GG	1946865681
SNP_P4_83059_25671783	NC_021165.1	Ca_kabuli_chr06	25671783	AA	TT	1946865683
SNP_P4_83060_25671833	NC_021165.1	Ca_kabuli_chr06	25671833	AA	TT	1946865685
SNP_P4_83061_25671912	NC_021165.1	Ca_kabuli_chr06	25671912	TT	GG	1946865687
SNP_P4_83062_25672063	NC_021165.1	Ca_kabuli_chr06	25672063	AA	TT	1946865689
SNP_P4_83063_25687449	NC_021165.1	Ca_kabuli_chr06	25687449	GG	TT	1946865691
SNP_P4_83064_25689137	NC_021165.1	Ca_kabuli_chr06	25689137	GG	TT	1946865693
SNP_P4_83065_25689448	NC_021165.1	Ca_kabuli_chr06	25689448	TT	GG	1946865695
SNP_P4_83066_25689457	NC_021165.1	Ca_kabuli_chr06	25689457	TT	AA	1946865697
SNP_P4_83068_25695905	NC_021165.1	Ca_kabuli_chr06	25695905	CC	TT	1946865699
SNP_P4_83069_25695913	NC_021165.1	Ca_kabuli_chr06	25695913	TT	CC	1946865701
SNP_P4_83070_25696882	NC_021165.1	Ca_kabuli_chr06	25696882	CC	TT	1946865703
SNP_P4_83071_25697054	NC_021165.1	Ca_kabuli_chr06	25697054	CC	AA	1946865705
SNP_P4_83072_25697192	NC_021165.1	Ca_kabuli_chr06	25697192	TT	CC	1946865707
SNP_P4_83073_25697222	NC_021165.1	Ca_kabuli_chr06	25697222	TT	CC	1946865708
SNP_P4_83074_25697272	NC_021165.1	Ca_kabuli_chr06	25697272	TT	CC	1946865710
SNP_P4_83075_25726495	NC_021165.1	Ca_kabuli_chr06	25726495	CC	TT	1946865712
SNP_P4_83076_25726519	NC_021165.1	Ca_kabuli_chr06	25726519	TT	GG	1946865714
SNP_P4_83077_25726665	NC_021165.1	Ca_kabuli_chr06	25726665	CC	TT	1946865716
SNP_P4_83078_25726690	NC_021165.1	Ca_kabuli_chr06	25726690	GG	AA	1946865718
SNP_P4_83079_25726708	NC_021165.1	Ca_kabuli_chr06	25726708	TT	AA	1946865720
SNP_P4_83080_25732992	NC_021165.1	Ca_kabuli_chr06	25732992	AA	GG	1946865722
SNP_P4_83081_25733010	NC_021165.1	Ca_kabuli_chr06	25733010	TT	AA	1946865724
SNP_P4_83082_25733031	NC_021165.1	Ca_kabuli_chr06	25733031	AA	GG	1946865726
SNP_P4_83083_25733362	NC_021165.1	Ca_kabuli_chr06	25733362	GG	AA	1946865728
SNP_P4_83084_25733407	NC_021165.1	Ca_kabuli_chr06	25733407	TT	CC	1946865730
SNP_P4_83085_25733421	NC_021165.1	Ca_kabuli_chr06	25733421	AA	TT	1946865732
SNP_P4_83086_25733422	NC_021165.1	Ca_kabuli_chr06	25733422	AA	GG	1946865734
SNP_P4_83087_25733584	NC_021165.1	Ca_kabuli_chr06	25733584	TT	CC	1946865736
SNP_P4_83088_25733620	NC_021165.1	Ca_kabuli_chr06	25733620	CC	TT	1946865738
SNP_P4_83089_25733627	NC_021165.1	Ca_kabuli_chr06	25733627	GG	TT	1946865739
SNP_P4_83090_25733729	NC_021165.1	Ca_kabuli_chr06	25733729	CC	TT	1946865741
SNP_P4_83091_25733743	NC_021165.1	Ca_kabuli_chr06	25733743	AA	GG	1946865743
SNP_P4_83092_25733745	NC_021165.1	Ca_kabuli_chr06	25733745	GG	AA	1946865745
SNP_P4_83093_25733774	NC_021165.1	Ca_kabuli_chr06	25733774	CC	TT	1946865747
SNP_P4_83094_25733917	NC_021165.1	Ca_kabuli_chr06	25733917	CC	TT	1946865749
SNP_P4_83095_25733920	NC_021165.1	Ca_kabuli_chr06	25733920	GG	TT	1946865751

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_83097_25751760	NC_021165.1	Ca_kabuli_chr06	25751760	AA	CC	1946865755
SNP_P4_83098_25752006	NC_021165.1	Ca_kabuli_chr06	25752006	GG	AA	1946865757
SNP_P4_83099_25752245	NC_021165.1	Ca_kabuli_chr06	25752245	CC	TT	1946865759
SNP_P4_83100_25754760	NC_021165.1	Ca_kabuli_chr06	25754760	GG	AA	1946865761
SNP_P4_83101_25757902	NC_021165.1	Ca_kabuli_chr06	25757902	AA	CC	1946865762
SNP_P4_83102_25757939	NC_021165.1	Ca_kabuli_chr06	25757939	AA	TT	1946865764
SNP_P4_83103_25757998	NC_021165.1	Ca_kabuli_chr06	25757998	AA	GG	1946865766
SNP_P4_83104_25757999	NC_021165.1	Ca_kabuli_chr06	25757999	AA	GG	1946865768
SNP_P4_83105_25758105	NC_021165.1	Ca_kabuli_chr06	25758105	GG	AA	1946865770
SNP_P4_83106_25773506	NC_021165.1	Ca_kabuli_chr06	25773506	AA	GG	1946865772
SNP_P4_83107_25789400	NC_021165.1	Ca_kabuli_chr06	25789400	CC	TT	1946865774
SNP_P4_83108_25789415	NC_021165.1	Ca_kabuli_chr06	25789415	AA	GG	1946865776
SNP_P4_83109_25805315	NC_021165.1	Ca_kabuli_chr06	25805315	AA	TT	1946865778
SNP_P4_83110_25815726	NC_021165.1	Ca_kabuli_chr06	25815726	TT	AA	1946865780
SNP_P4_83111_25834379	NC_021165.1	Ca_kabuli_chr06	25834379	TT	CC	1946865782
SNP_P4_83112_25851475	NC_021165.1	Ca_kabuli_chr06	25851475	CC	TT	1946865784
SNP_P4_83113_25867550	NC_021165.1	Ca_kabuli_chr06	25867550	CC	AA	1946865786
SNP_P4_83114_25867568	NC_021165.1	Ca_kabuli_chr06	25867568	TT	AA	1946865788
SNP_P4_83115_25869062	NC_021165.1	Ca_kabuli_chr06	25869062	TT	GG	1946865790
SNP_P4_83116_25869140	NC_021165.1	Ca_kabuli_chr06	25869140	AA	CC	1946865792
SNP_P4_83117_25869181	NC_021165.1	Ca_kabuli_chr06	25869181	TT	CC	1946865794
SNP_P4_83118_25869226	NC_021165.1	Ca_kabuli_chr06	25869226	TT	AA	1946865796
SNP_P4_83119_25869229	NC_021165.1	Ca_kabuli_chr06	25869229	CC	AA	1946865798
SNP_P4_83120_25869230	NC_021165.1	Ca_kabuli_chr06	25869230	AA	GG	1946865800
SNP_P4_83121_25869231	NC_021165.1	Ca_kabuli_chr06	25869231	CC	GG	1946865802
SNP_P4_83122_25869408	NC_021165.1	Ca_kabuli_chr06	25869408	GG	CC	1946865804
SNP_P4_83123_25869411	NC_021165.1	Ca_kabuli_chr06	25869411	TT	GG	1946865806
SNP_P4_83124_25869437	NC_021165.1	Ca_kabuli_chr06	25869437	CC	GG	1946865808
SNP_P4_83125_25869441	NC_021165.1	Ca_kabuli_chr06	25869441	TT	GG	1946865810
SNP_P4_83126_25869463	NC_021165.1	Ca_kabuli_chr06	25869463	GG	TT	1946865811
SNP_P4_83127_25869497	NC_021165.1	Ca_kabuli_chr06	25869497	CC	TT	1946865813
SNP_P4_83128_25887069	NC_021165.1	Ca_kabuli_chr06	25887069	TT	CC	1946865815
SNP_P4_83129_25894744	NC_021165.1	Ca_kabuli_chr06	25894744	CC	AA	1946865817
SNP_P4_83130_25894748	NC_021165.1	Ca_kabuli_chr06	25894748	TT	GG	1946865819
SNP_P4_83131_25895032	NC_021165.1	Ca_kabuli_chr06	25895032	GG	AA	1946865821
SNP_P4_83132_25895052	NC_021165.1	Ca_kabuli_chr06	25895052	TT	AA	1946865823
SNP_P4_83133_25916473	NC_021165.1	Ca_kabuli_chr06	25916473	AA	CC	1946865825
SNP_P4_83134_25916477	NC_021165.1	Ca_kabuli_chr06	25916477	TT	CC	1946865827
SNP_P4_83136_25916500	NC_021165.1	Ca_kabuli_chr06	25916500	AA	GG	1946865829
SNP_P4_83137_25916522	NC_021165.1	Ca_kabuli_chr06	25916522	AA	GG	1946865831
SNP_P4_83138_25916531	NC_021165.1	Ca_kabuli_chr06	25916531	TT	GG	1946865833

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_83140_25916552	NC_021165.1	Ca_kabuli_chr06	25916552	TT	CC	1946865837
SNP_P4_83141_25916568	NC_021165.1	Ca_kabuli_chr06	25916568	TT	GG	1946865839
SNP_P4_83142_25916587	NC_021165.1	Ca_kabuli_chr06	25916587	GG	AA	1946865841
SNP_P4_83143_25916600	NC_021165.1	Ca_kabuli_chr06	25916600	GG	AA	1946865843
SNP_P4_83144_25916624	NC_021165.1	Ca_kabuli_chr06	25916624	AA	GG	1946865845
SNP_P4_83145_25916625	NC_021165.1	Ca_kabuli_chr06	25916625	AA	CC	1946865847
SNP_P4_83146_25916630	NC_021165.1	Ca_kabuli_chr06	25916630	CC	TT	1946865849
SNP_P4_83147_25916639	NC_021165.1	Ca_kabuli_chr06	25916639	CC	TT	1946865851
SNP_P4_83149_25916776	NC_021165.1	Ca_kabuli_chr06	25916776	TT	CC	1946865853
SNP_P4_83150_25916902	NC_021165.1	Ca_kabuli_chr06	25916902	AA	GG	1946865855
SNP_P4_83151_25916935	NC_021165.1	Ca_kabuli_chr06	25916935	CC	AA	1946865857
SNP_P4_83152_25917007	NC_021165.1	Ca_kabuli_chr06	25917007	GG	AA	1946865859
SNP_P4_83153_25919402	NC_021165.1	Ca_kabuli_chr06	25919402	GG	AA	1946865860
SNP_P4_83154_25919412	NC_021165.1	Ca_kabuli_chr06	25919412	AA	GG	1946865862
SNP_P4_83155_25919812	NC_021165.1	Ca_kabuli_chr06	25919812	TT	GG	1946865864
SNP_P4_83156_25941060	NC_021165.1	Ca_kabuli_chr06	25941060	AA	CC	1946865866
SNP_P4_83157_25954415	NC_021165.1	Ca_kabuli_chr06	25954415	TT	CC	1946865868
SNP_P4_83159_25966973	NC_021165.1	Ca_kabuli_chr06	25966973	CC	TT	1946865870
SNP_P4_83160_25967366	NC_021165.1	Ca_kabuli_chr06	25967366	CC	TT	1946865872
SNP_P4_83161_25967706	NC_021165.1	Ca_kabuli_chr06	25967706	GG	CC	1946865874
SNP_P4_83162_25967713	NC_021165.1	Ca_kabuli_chr06	25967713	CC	TT	1946865876
SNP_P4_83164_25976915	NC_021165.1	Ca_kabuli_chr06	25976915	GG	CC	1946865878
SNP_P4_83165_25977884	NC_021165.1	Ca_kabuli_chr06	25977884	TT	CC	1946865880
SNP_P4_83166_25977919	NC_021165.1	Ca_kabuli_chr06	25977919	TT	GG	1946865882
SNP_P4_83167_25977994	NC_021165.1	Ca_kabuli_chr06	25977994	TT	GG	1946865884
SNP_P4_83168_26023113	NC_021165.1	Ca_kabuli_chr06	26023113	AA	GG	1946865886
SNP_P4_83169_26027557	NC_021165.1	Ca_kabuli_chr06	26027557	GG	AA	1946865888
SNP_P4_83170_26027560	NC_021165.1	Ca_kabuli_chr06	26027560	TT	CC	1946865890
SNP_P4_83171_26027576	NC_021165.1	Ca_kabuli_chr06	26027576	AA	GG	1946865892
SNP_P4_83172_26027582	NC_021165.1	Ca_kabuli_chr06	26027582	CC	TT	1946865894
SNP_P4_83173_26027612	NC_021165.1	Ca_kabuli_chr06	26027612	CC	TT	1946865896
SNP_P4_83174_26027613	NC_021165.1	Ca_kabuli_chr06	26027613	TT	CC	1946865897
SNP_P4_83175_26027628	NC_021165.1	Ca_kabuli_chr06	26027628	AA	GG	1946865899
SNP_P4_83176_26027635	NC_021165.1	Ca_kabuli_chr06	26027635	GG	TT	1946865901
SNP_P4_83177_26030922	NC_021165.1	Ca_kabuli_chr06	26030922	AA	TT	1946865903
SNP_P4_83179_26059970	NC_021165.1	Ca_kabuli_chr06	26059970	AA	TT	1946865905
SNP_P4_83180_26060725	NC_021165.1	Ca_kabuli_chr06	26060725	CC	GG	1946865907
SNP_P4_83181_26060736	NC_021165.1	Ca_kabuli_chr06	26060736	GG	AA	1946865909
SNP_P4_83182_26060989	NC_021165.1	Ca_kabuli_chr06	26060989	CC	AA	1946865911
SNP_P4_83183_26061037	NC_021165.1	Ca_kabuli_chr06	26061037	GG	AA	1946865913
SNP_P4_83184_26065926	NC_021165.1	Ca_kabuli_chr06	26065926	TT	GG	1946865915

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_83186_26066480	NC_021165.1	Ca_kabuli_chr06	26066480	TT	GG	1946865920
SNP_P4_83187_26066496	NC_021165.1	Ca_kabuli_chr06	26066496	GG	AA	1946865922
SNP_P4_83188_26066506	NC_021165.1	Ca_kabuli_chr06	26066506	CC	TT	1946865925
SNP_P4_83190_26095343	NC_021165.1	Ca_kabuli_chr06	26095343	TT	CC	1946865927
SNP_P4_83191_26095678	NC_021165.1	Ca_kabuli_chr06	26095678	GG	AA	1946865929
SNP_P4_83192_26095699	NC_021165.1	Ca_kabuli_chr06	26095699	AA	GG	1946865931
SNP_P4_83194_26114644	NC_021165.1	Ca_kabuli_chr06	26114644	AA	TT	1946865933
SNP_P4_83195_26117368	NC_021165.1	Ca_kabuli_chr06	26117368	CC	TT	1946865935
SNP_P4_83196_26132045	NC_021165.1	Ca_kabuli_chr06	26132045	TT	AA	1946865937
SNP_P4_83197_26132093	NC_021165.1	Ca_kabuli_chr06	26132093	AA	GG	1946865939
SNP_P4_83198_26135817	NC_021165.1	Ca_kabuli_chr06	26135817	AA	GG	1946865941
SNP_P4_83199_26135877	NC_021165.1	Ca_kabuli_chr06	26135877	AA	GG	1946865943
SNP_P4_83200_26136197	NC_021165.1	Ca_kabuli_chr06	26136197	TT	CC	1946865945
SNP_P4_83201_26136209	NC_021165.1	Ca_kabuli_chr06	26136209	CC	GG	1946865947
SNP_P4_83202_26136255	NC_021165.1	Ca_kabuli_chr06	26136255	TT	CC	1946865949
SNP_P4_83203_26136260	NC_021165.1	Ca_kabuli_chr06	26136260	AA	GG	1946865951
SNP_P4_83204_26137862	NC_021165.1	Ca_kabuli_chr06	26137862	AA	TT	1946865953
SNP_P4_83205_26140233	NC_021165.1	Ca_kabuli_chr06	26140233	AA	TT	1946865955
SNP_P4_83206_26152473	NC_021165.1	Ca_kabuli_chr06	26152473	TT	AA	1946865957
SNP_P4_83207_26152483	NC_021165.1	Ca_kabuli_chr06	26152483	GG	CC	1946865959
SNP_P4_83208_26152742	NC_021165.1	Ca_kabuli_chr06	26152742	AA	GG	1946865961
SNP_P4_83209_26152745	NC_021165.1	Ca_kabuli_chr06	26152745	AA	GG	1946865963
SNP_P4_83211_26152823	NC_021165.1	Ca_kabuli_chr06	26152823	AA	GG	1946865965
SNP_P4_83212_26152861	NC_021165.1	Ca_kabuli_chr06	26152861	AA	GG	1946865967
SNP_P4_83213_26156915	NC_021165.1	Ca_kabuli_chr06	26156915	CC	TT	1946865969
SNP_P4_83214_26156947	NC_021165.1	Ca_kabuli_chr06	26156947	AA	CC	1946865971
SNP_P4_83215_26157749	NC_021165.1	Ca_kabuli_chr06	26157749	TT	CC	1946865973
SNP_P4_83216_26157755	NC_021165.1	Ca_kabuli_chr06	26157755	CC	TT	1946865975
SNP_P4_83217_26157757	NC_021165.1	Ca_kabuli_chr06	26157757	TT	CC	1946865977
SNP_P4_83218_26159928	NC_021165.1	Ca_kabuli_chr06	26159928	CC	GG	1946865979
SNP_P4_83219_26159931	NC_021165.1	Ca_kabuli_chr06	26159931	GG	AA	1946865981
SNP_P4_83220_26208584	NC_021165.1	Ca_kabuli_chr06	26208584	CC	GG	1946865983
SNP_P4_83221_26209309	NC_021165.1	Ca_kabuli_chr06	26209309	TT	GG	1946865985
SNP_P4_83222_26209776	NC_021165.1	Ca_kabuli_chr06	26209776	TT	CC	1946865987
SNP_P4_83223_26213125	NC_021165.1	Ca_kabuli_chr06	26213125	TT	CC	1946865989
SNP_P4_83224_26240562	NC_021165.1	Ca_kabuli_chr06	26240562	TT	CC	1946865991
SNP_P4_83225_26244243	NC_021165.1	Ca_kabuli_chr06	26244243	TT	CC	1946865992
SNP_P4_83226_26244266	NC_021165.1	Ca_kabuli_chr06	26244266	GG	AA	1946865994
SNP_P4_83227_26244267	NC_021165.1	Ca_kabuli_chr06	26244267	GG	AA	1946865996
SNP_P4_83228_26244282	NC_021165.1	Ca_kabuli_chr06	26244282	TT	CC	1946865998
SNP_P4_83229_26244306	NC_021165.1	Ca_kabuli_chr06	26244306	CC	TT	1946866000

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_83232_26244318	NC_021165.1	Ca_kabuli_chr06	26244318	TT	AA	1946866004
SNP_P4_83233_26247924	NC_021165.1	Ca_kabuli_chr06	26247924	GG	AA	1946866006
SNP_P4_83234_26247957	NC_021165.1	Ca_kabuli_chr06	26247957	CC	TT	1946866008
SNP_P4_83235_26247969	NC_021165.1	Ca_kabuli_chr06	26247969	CC	TT	1946866010
SNP_P4_83236_26247987	NC_021165.1	Ca_kabuli_chr06	26247987	CC	TT	1946866012
SNP_P4_83237_26248015	NC_021165.1	Ca_kabuli_chr06	26248015	AA	TT	1946866014
SNP_P4_83238_26248041	NC_021165.1	Ca_kabuli_chr06	26248041	TT	GG	1946866016
SNP_P4_83239_26254674	NC_021165.1	Ca_kabuli_chr06	26254674	CC	GG	1946866018
SNP_P4_83240_26254686	NC_021165.1	Ca_kabuli_chr06	26254686	TT	CC	1946866020
SNP_P4_83241_26255020	NC_021165.1	Ca_kabuli_chr06	26255020	TT	GG	1946866022
SNP_P4_83242_26255050	NC_021165.1	Ca_kabuli_chr06	26255050	AA	CC	1946866024
SNP_P4_83243_26255052	NC_021165.1	Ca_kabuli_chr06	26255052	AA	TT	1946866026
SNP_P4_83244_26255063	NC_021165.1	Ca_kabuli_chr06	26255063	TT	AA	1946866028
SNP_P4_83245_26255067	NC_021165.1	Ca_kabuli_chr06	26255067	AA	GG	1946866030
SNP_P4_83246_26255885	NC_021165.1	Ca_kabuli_chr06	26255885	TT	CC	1946866032
SNP_P4_83247_26255902	NC_021165.1	Ca_kabuli_chr06	26255902	AA	GG	1946866034
SNP_P4_83248_26255907	NC_021165.1	Ca_kabuli_chr06	26255907	CC	AA	1946866036
SNP_P4_83249_26255920	NC_021165.1	Ca_kabuli_chr06	26255920	TT	GG	1946866037
SNP_P4_83250_26263538	NC_021165.1	Ca_kabuli_chr06	26263538	AA	GG	1946866039
SNP_P4_83252_26277580	NC_021165.1	Ca_kabuli_chr06	26277580	CC	TT	1946866041
SNP_P4_83253_26277598	NC_021165.1	Ca_kabuli_chr06	26277598	CC	TT	1946866043
SNP_P4_83255_26277714	NC_021165.1	Ca_kabuli_chr06	26277714	GG	TT	1946866045
SNP_P4_83257_26277748	NC_021165.1	Ca_kabuli_chr06	26277748	CC	AA	1946866047
SNP_P4_83258_26277848	NC_021165.1	Ca_kabuli_chr06	26277848	AA	TT	1946866049
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SNP_P4_83260_26278198	NC_021165.1	Ca_kabuli_chr06	26278198	AA	GG	1946866053
SNP_P4_83261_26278201	NC_021165.1	Ca_kabuli_chr06	26278201	TT	AA	1946866055
SNP_P4_83262_26278230	NC_021165.1	Ca_kabuli_chr06	26278230	AA	GG	1946866057
SNP_P4_83263_26278239	NC_021165.1	Ca_kabuli_chr06	26278239	AA	GG	1946866059
SNP_P4_83264_26278254	NC_021165.1	Ca_kabuli_chr06	26278254	CC	TT	1946866061
SNP_P4_83265_26278271	NC_021165.1	Ca_kabuli_chr06	26278271	AA	GG	1946866063
SNP_P4_83266_26278309	NC_021165.1	Ca_kabuli_chr06	26278309	TT	GG	1946866065
SNP_P4_83267_26286025	NC_021165.1	Ca_kabuli_chr06	26286025	GG	TT	1946866067
SNP_P4_83268_26286038	NC_021165.1	Ca_kabuli_chr06	26286038	AA	GG	1946866069
SNP_P4_83269_26286409	NC_021165.1	Ca_kabuli_chr06	26286409	TT	CC	1946866071
SNP_P4_83270_26286460	NC_021165.1	Ca_kabuli_chr06	26286460	AA	GG	1946866073
SNP_P4_83271_26286807	NC_021165.1	Ca_kabuli_chr06	26286807	AA	TT	1946866074
SNP_P4_83272_26286810	NC_021165.1	Ca_kabuli_chr06	26286810	GG	AA	1946866076
SNP_P4_83273_26286831	NC_021165.1	Ca_kabuli_chr06	26286831	AA	CC	1946866078
SNP_P4_83274_26286894	NC_021165.1	Ca_kabuli_chr06	26286894	AA	TT	1946866080
SNP_P4_83275_26297895	NC_021165.1	Ca_kabuli_chr06	26297895	TT	CC	1946866082

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_83277_26303777	NC_021165.1	Ca_kabuli_chr06	26303777	TT	AA	1946866086
SNP_P4_83278_26307942	NC_021165.1	Ca_kabuli_chr06	26307942	CC	TT	1946866088
SNP_P4_83279_26307950	NC_021165.1	Ca_kabuli_chr06	26307950	CC	TT	1946866090
SNP_P4_83280_26309669	NC_021165.1	Ca_kabuli_chr06	26309669	TT	GG	1946866092
SNP_P4_83281_26309682	NC_021165.1	Ca_kabuli_chr06	26309682	CC	AA	1946866094
SNP_P4_83282_26309979	NC_021165.1	Ca_kabuli_chr06	26309979	CC	AA	1946866096
SNP_P4_83283_26310022	NC_021165.1	Ca_kabuli_chr06	26310022	AA	CC	1946866098
SNP_P4_83284_26310042	NC_021165.1	Ca_kabuli_chr06	26310042	AA	GG	1946866099
SNP_P4_83285_26310050	NC_021165.1	Ca_kabuli_chr06	26310050	TT	CC	1946866101
SNP_P4_83286_26310052	NC_021165.1	Ca_kabuli_chr06	26310052	TT	GG	1946866104
SNP_P4_83287_26310067	NC_021165.1	Ca_kabuli_chr06	26310067	GG	TT	1946866106
SNP_P4_83288_26323793	NC_021165.1	Ca_kabuli_chr06	26323793	GG	CC	1946866108
SNP_P4_83289_26341449	NC_021165.1	Ca_kabuli_chr06	26341449	CC	TT	1946866110
SNP_P4_83290_26341592	NC_021165.1	Ca_kabuli_chr06	26341592	TT	GG	1946866112
SNP_P4_83291_26345029	NC_021165.1	Ca_kabuli_chr06	26345029	CC	TT	1946866114
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SNP_P4_83294_26349451	NC_021165.1	Ca_kabuli_chr06	26349451	CC	TT	1946866120
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SNP_P4_83296_26349692	NC_021165.1	Ca_kabuli_chr06	26349692	GG	AA	1946866124
SNP_P4_83297_26349749	NC_021165.1	Ca_kabuli_chr06	26349749	GG	AA	1946866126
SNP_P4_83298_26349778	NC_021165.1	Ca_kabuli_chr06	26349778	GG	AA	1946866128
SNP_P4_83299_26349935	NC_021165.1	Ca_kabuli_chr06	26349935	TT	AA	1946866130
SNP_P4_83300_26350007	NC_021165.1	Ca_kabuli_chr06	26350007	AA	CC	1946866132
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SNP_P4_83302_26350137	NC_021165.1	Ca_kabuli_chr06	26350137	CC	TT	1946866136
SNP_P4_83303_26350198	NC_021165.1	Ca_kabuli_chr06	26350198	GG	AA	1946866138
SNP_P4_83304_26351914	NC_021165.1	Ca_kabuli_chr06	26351914	GG	CC	1946866140
SNP_P4_83305_26352698	NC_021165.1	Ca_kabuli_chr06	26352698	AA	CC	1946866142
SNP_P4_83306_26353401	NC_021165.1	Ca_kabuli_chr06	26353401	CC	GG	1946866144
SNP_P4_83307_26354118	NC_021165.1	Ca_kabuli_chr06	26354118	AA	GG	1946866146
SNP_P4_83309_26374829	NC_021165.1	Ca_kabuli_chr06	26374829	CC	TT	1946866148
SNP_P4_83310_26377687	NC_021165.1	Ca_kabuli_chr06	26377687	GG	AA	1946866150
SNP_P4_83313_26398891	NC_021165.1	Ca_kabuli_chr06	26398891	GG	TT	1946866152
SNP_P4_83314_26401314	NC_021165.1	Ca_kabuli_chr06	26401314	CC	GG	1946866154
SNP_P4_83315_26415899	NC_021165.1	Ca_kabuli_chr06	26415899	AA	GG	1946866156
SNP_P4_83316_26418018	NC_021165.1	Ca_kabuli_chr06	26418018	CC	TT	1946866158
SNP_P4_83317_26428027	NC_021165.1	Ca_kabuli_chr06	26428027	GG	AA	1946866160
SNP_P4_83320_26439279	NC_021165.1	Ca_kabuli_chr06	26439279	AA	GG	1946866162
SNP_P4_83321_26454472	NC_021165.1	Ca_kabuli_chr06	26454472	GG	AA	1946866164
SNP_P4_83322_26466588	NC_021165.1	Ca_kabuli_chr06	26466588	GG	AA	1946866166

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_83326_26499154	NC_021165.1	Ca_kabuli_chr06	26499154	AA	GG	1946866172
SNP_P4_83328_26545277	NC_021165.1	Ca_kabuli_chr06	26545277	AA	GG	1946866174
SNP_P4_83329_26545286	NC_021165.1	Ca_kabuli_chr06	26545286	AA	GG	1946866175
SNP_P4_83332_26560605	NC_021165.1	Ca_kabuli_chr06	26560605	AA	GG	1946866177
SNP_P4_83333_26573750	NC_021165.1	Ca_kabuli_chr06	26573750	CC	GG	1946866179
SNP_P4_83334_26585895	NC_021165.1	Ca_kabuli_chr06	26585895	GG	AA	1946866181
SNP_P4_83335_26604882	NC_021165.1	Ca_kabuli_chr06	26604882	AA	CC	1946866183
SNP_P4_83336_26614647	NC_021165.1	Ca_kabuli_chr06	26614647	CC	TT	1946866185
SNP_P4_83337_26614969	NC_021165.1	Ca_kabuli_chr06	26614969	TT	CC	1946866187
SNP_P4_83338_26637538	NC_021165.1	Ca_kabuli_chr06	26637538	CC	AA	1946866189
SNP_P4_83340_26673881	NC_021165.1	Ca_kabuli_chr06	26673881	AA	GG	1946866191
SNP_P4_83341_26686040	NC_021165.1	Ca_kabuli_chr06	26686040	AA	CC	1946866193
SNP_P4_83342_26686087	NC_021165.1	Ca_kabuli_chr06	26686087	AA	TT	1946866195
SNP_P4_83343_26686289	NC_021165.1	Ca_kabuli_chr06	26686289	TT	AA	1946866197
SNP_P4_83345_26686587	NC_021165.1	Ca_kabuli_chr06	26686587	CC	TT	1946866199
SNP_P4_83346_26703215	NC_021165.1	Ca_kabuli_chr06	26703215	AA	GG	1946866201
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SNP_P4_83349_26737583	NC_021165.1	Ca_kabuli_chr06	26737583	GG	AA	1946866205
SNP_P4_83350_26741975	NC_021165.1	Ca_kabuli_chr06	26741975	TT	GG	1946866207
SNP_P4_83351_26741976	NC_021165.1	Ca_kabuli_chr06	26741976	AA	CC	1946866209
SNP_P4_83352_26741984	NC_021165.1	Ca_kabuli_chr06	26741984	TT	CC	1946866211
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SNP_P4_83358_26796182	NC_021165.1	Ca_kabuli_chr06	26796182	AA	GG	1946866219
SNP_P4_83360_26808507	NC_021165.1	Ca_kabuli_chr06	26808507	TT	CC	1946866221
SNP_P4_83362_26815115	NC_021165.1	Ca_kabuli_chr06	26815115	TT	GG	1946866223
SNP_P4_83363_26818104	NC_021165.1	Ca_kabuli_chr06	26818104	CC	TT	1946866225
SNP_P4_83364_26828982	NC_021165.1	Ca_kabuli_chr06	26828982	CC	AA	1946866227
SNP_P4_83365_26828987	NC_021165.1	Ca_kabuli_chr06	26828987	TT	GG	1946866229
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SNP_P4_83368_26867663	NC_021165.1	Ca_kabuli_chr06	26867663	TT	GG	1946866233
SNP_P4_83370_26893141	NC_021165.1	Ca_kabuli_chr06	26893141	AA	GG	1946866235
SNP_P4_83371_26910479	NC_021165.1	Ca_kabuli_chr06	26910479	AA	GG	1946866237
SNP_P4_83373_26937699	NC_021165.1	Ca_kabuli_chr06	26937699	CC	TT	1946866295
SNP_P4_83374_26939893	NC_021165.1	Ca_kabuli_chr06	26939893	GG	TT	1946866297
SNP_P4_83375_26946222	NC_021165.1	Ca_kabuli_chr06	26946222	CC	TT	1946866299
SNP_P4_83376_26946328	NC_021165.1	Ca_kabuli_chr06	26946328	TT	CC	1946866301
SNP_P4_83377_26949946	NC_021165.1	Ca_kabuli_chr06	26949946	GG	CC	1946866303
SNP_P4_83378_26949949	NC_021165.1	Ca_kabuli_chr06	26949949	GG	TT	1946866305

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_83382_26978596	NC_021165.1	Ca_kabuli_chr06	26978596	AA	GG	1946866314
SNP_P4_83383_26984461	NC_021165.1	Ca_kabuli_chr06	26984461	GG	AA	1946866316
SNP_P4_83384_26985446	NC_021165.1	Ca_kabuli_chr06	26985446	CC	TT	1946866318
SNP_P4_83385_26998139	NC_021165.1	Ca_kabuli_chr06	26998139	CC	TT	1946866321
SNP_P4_83386_27002740	NC_021165.1	Ca_kabuli_chr06	27002740	TT	AA	1946866323
SNP_P4_83387_27002741	NC_021165.1	Ca_kabuli_chr06	27002741	CC	TT	1946866325
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SNP_P4_83391_27008100	NC_021165.1	Ca_kabuli_chr06	27008100	GG	AA	1946866333
SNP_P4_83392_27008119	NC_021165.1	Ca_kabuli_chr06	27008119	AA	GG	1946866336
SNP_P4_83393_27008131	NC_021165.1	Ca_kabuli_chr06	27008131	TT	CC	1946866337
SNP_P4_83394_27009357	NC_021165.1	Ca_kabuli_chr06	27009357	GG	AA	1946866339
SNP_P4_83397_27039013	NC_021165.1	Ca_kabuli_chr06	27039013	AA	TT	1946866341
SNP_P4_83398_27039047	NC_021165.1	Ca_kabuli_chr06	27039047	CC	TT	1946866343
SNP_P4_83399_27039074	NC_021165.1	Ca_kabuli_chr06	27039074	AA	GG	1946866345
SNP_P4_83400_27039091	NC_021165.1	Ca_kabuli_chr06	27039091	CC	AA	1946866347
SNP_P4_83401_27039094	NC_021165.1	Ca_kabuli_chr06	27039094	CC	TT	1946866349
SNP_P4_83402_27039133	NC_021165.1	Ca_kabuli_chr06	27039133	GG	AA	1946866351
SNP_P4_83403_27039138	NC_021165.1	Ca_kabuli_chr06	27039138	TT	CC	1946866352
SNP_P4_83404_27039143	NC_021165.1	Ca_kabuli_chr06	27039143	GG	AA	1946866354
SNP_P4_83405_27039232	NC_021165.1	Ca_kabuli_chr06	27039232	CC	TT	1946866356
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SNP_P4_83407_27039409	NC_021165.1	Ca_kabuli_chr06	27039409	TT	GG	1946866360
SNP_P4_83408_27041742	NC_021165.1	Ca_kabuli_chr06	27041742	GG	AA	1946866362
SNP_P4_83409_27045501	NC_021165.1	Ca_kabuli_chr06	27045501	GG	AA	1946866364
SNP_P4_83410_27067743	NC_021165.1	Ca_kabuli_chr06	27067743	GG	AA	1946866366
SNP_P4_83411_27067792	NC_021165.1	Ca_kabuli_chr06	27067792	CC	TT	1946866368
SNP_P4_83412_27067856	NC_021165.1	Ca_kabuli_chr06	27067856	CC	TT	1946866370
SNP_P4_83413_27074864	NC_021165.1	Ca_kabuli_chr06	27074864	CC	TT	1946866372
SNP_P4_83414_27087271	NC_021165.1	Ca_kabuli_chr06	27087271	TT	AA	1946866374
SNP_P4_83415_27108197	NC_021165.1	Ca_kabuli_chr06	27108197	TT	GG	1946866376
SNP_P4_83416_27108207	NC_021165.1	Ca_kabuli_chr06	27108207	GG	AA	1946866378
SNP_P4_83417_27108240	NC_021165.1	Ca_kabuli_chr06	27108240	TT	AA	1946866380
SNP_P4_83419_27128461	NC_021165.1	Ca_kabuli_chr06	27128461	TT	GG	1946866383
SNP_P4_83422_27138691	NC_021165.1	Ca_kabuli_chr06	27138691	AA	CC	1946866385
SNP_P4_83423_27147435	NC_021165.1	Ca_kabuli_chr06	27147435	AA	GG	1946866386
SNP_P4_83426_27171319	NC_021165.1	Ca_kabuli_chr06	27171319	AA	TT	1946866388
SNP_P4_83427_27184049	NC_021165.1	Ca_kabuli_chr06	27184049	GG	AA	1946866390

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_83430_27195950	NC_021165.1	Ca_kabuli_chr06	27195950	CC	AA	1946866394
SNP_P4_83431_27207423	NC_021165.1	Ca_kabuli_chr06	27207423	GG	AA	1946866396
SNP_P4_83432_27217471	NC_021165.1	Ca_kabuli_chr06	27217471	AA	TT	1946866398
SNP_P4_83433_27226950	NC_021165.1	Ca_kabuli_chr06	27226950	TT	GG	1946866400
SNP_P4_83434_27250488	NC_021165.1	Ca_kabuli_chr06	27250488	GG	AA	1946866402
SNP_P4_83436_27280819	NC_021165.1	Ca_kabuli_chr06	27280819	AA	GG	1946866404
SNP_P4_83438_27289118	NC_021165.1	Ca_kabuli_chr06	27289118	CC	GG	1946866406
SNP_P4_83439_27289128	NC_021165.1	Ca_kabuli_chr06	27289128	TT	AA	1946866408
SNP_P4_83440_27289452	NC_021165.1	Ca_kabuli_chr06	27289452	TT	AA	1946866410
SNP_P4_83442_27317475	NC_021165.1	Ca_kabuli_chr06	27317475	AA	TT	1946866412
SNP_P4_83443_27317476	NC_021165.1	Ca_kabuli_chr06	27317476	AA	TT	1946866414
SNP_P4_83444_27318383	NC_021165.1	Ca_kabuli_chr06	27318383	TT	AA	1946866416
SNP_P4_83445_27318384	NC_021165.1	Ca_kabuli_chr06	27318384	TT	AA	1946866418
SNP_P4_83446_27340457	NC_021165.1	Ca_kabuli_chr06	27340457	CC	TT	1946866420
SNP_P4_83449_27349315	NC_021165.1	Ca_kabuli_chr06	27349315	GG	AA	1946866422
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SNP_P4_83452_27360223	NC_021165.1	Ca_kabuli_chr06	27360223	AA	GG	1946866428
SNP_P4_83453_27384777	NC_021165.1	Ca_kabuli_chr06	27384777	CC	AA	1946866430
SNP_P4_83454_27393166	NC_021165.1	Ca_kabuli_chr06	27393166	GG	AA	1946866432
SNP_P4_83455_27396343	NC_021165.1	Ca_kabuli_chr06	27396343	AA	CC	1946866434
SNP_P4_83456_27399837	NC_021165.1	Ca_kabuli_chr06	27399837	CC	GG	1946866436
SNP_P4_83457_27401063	NC_021165.1	Ca_kabuli_chr06	27401063	GG	AA	1946866438
SNP_P4_83458_27402049	NC_021165.1	Ca_kabuli_chr06	27402049	GG	AA	1946866439
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SNP_P4_83463_27450356	NC_021165.1	Ca_kabuli_chr06	27450356	CC	GG	1946866443
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SNP_P4_83466_27499675	NC_021165.1	Ca_kabuli_chr06	27499675	CC	TT	1946866448
SNP_P4_83467_27512085	NC_021165.1	Ca_kabuli_chr06	27512085	GG	AA	1946866450
SNP_P4_83468_27519195	NC_021165.1	Ca_kabuli_chr06	27519195	AA	GG	1946866452
SNP_P4_83469_27522518	NC_021165.1	Ca_kabuli_chr06	27522518	AA	TT	1946866454
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SNP_P4_83471_27522573	NC_021165.1	Ca_kabuli_chr06	27522573	TT	GG	1946866458
SNP_P4_83472_27540329	NC_021165.1	Ca_kabuli_chr06	27540329	TT	AA	1946866460
SNP_P4_83473_27540331	NC_021165.1	Ca_kabuli_chr06	27540331	AA	GG	1946866462
SNP_P4_83474_27611823	NC_021165.1	Ca_kabuli_chr06	27611823	GG	AA	1946866464
SNP_P4_83475_27612327	NC_021165.1	Ca_kabuli_chr06	27612327	CC	TT	1946866466
SNP_P4_83476_27624987	NC_021165.1	Ca_kabuli_chr06	27624987	TT	CC	1946866468
SNP_P4_83477_27633242	NC_021165.1	Ca_kabuli_chr06	27633242	CC	TT	1946866469
SNP_P4_83478_27634407	NC_021165.1	Ca_kabuli_chr06	27634407	TT	CC	1946866471

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_83482_27700775	NC_021165.1	Ca_kabuli_chr06	27700775	TT	CC	1946866477
SNP_P4_83483_27740338	NC_021165.1	Ca_kabuli_chr06	27740338	GG	AA	1946866479
SNP_P4_83484_27756138	NC_021165.1	Ca_kabuli_chr06	27756138	CC	AA	1946866481
SNP_P4_83485_27756145	NC_021165.1	Ca_kabuli_chr06	27756145	TT	AA	1946866483
SNP_P4_83486_27777185	NC_021165.1	Ca_kabuli_chr06	27777185	AA	GG	1946866485
SNP_P4_83487_27777329	NC_021165.1	Ca_kabuli_chr06	27777329	CC	TT	1946866487
SNP_P4_83488_27777350	NC_021165.1	Ca_kabuli_chr06	27777350	TT	CC	1946866489
SNP_P4_83489_27777629	NC_021165.1	Ca_kabuli_chr06	27777629	CC	TT	1946866490
SNP_P4_83490_27777671	NC_021165.1	Ca_kabuli_chr06	27777671	CC	AA	1946866492
SNP_P4_83491_27798115	NC_021165.1	Ca_kabuli_chr06	27798115	CC	AA	1946866494
SNP_P4_83492_27825713	NC_021165.1	Ca_kabuli_chr06	27825713	AA	GG	1946866496
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SNP_P4_83494_27827654	NC_021165.1	Ca_kabuli_chr06	27827654	GG	AA	1946866499
SNP_P4_83495_27902168	NC_021165.1	Ca_kabuli_chr06	27902168	CC	TT	1946866501
SNP_P4_83496_27902221	NC_021165.1	Ca_kabuli_chr06	27902221	TT	CC	1946866503
SNP_P4_83497_27902255	NC_021165.1	Ca_kabuli_chr06	27902255	AA	TT	1946866505
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SNP_P4_83501_27902602	NC_021165.1	Ca_kabuli_chr06	27902602	CC	TT	1946866511
SNP_P4_83502_27910472	NC_021165.1	Ca_kabuli_chr06	27910472	AA	TT	1946866512
SNP_P4_83503_27910476	NC_021165.1	Ca_kabuli_chr06	27910476	GG	TT	1946866514
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SNP_P4_83510_27910577	NC_021165.1	Ca_kabuli_chr06	27910577	AA	TT	1946866528
SNP_P4_83511_27910582	NC_021165.1	Ca_kabuli_chr06	27910582	TT	CC	1946866530
SNP_P4_83512_27910590	NC_021165.1	Ca_kabuli_chr06	27910590	AA	GG	1946866532
SNP_P4_83513_27910598	NC_021165.1	Ca_kabuli_chr06	27910598	TT	AA	1946866534
SNP_P4_83514_27910613	NC_021165.1	Ca_kabuli_chr06	27910613	TT	CC	1946866536
SNP_P4_83515_27910672	NC_021165.1	Ca_kabuli_chr06	27910672	TT	GG	1946866538
SNP_P4_83516_27910673	NC_021165.1	Ca_kabuli_chr06	27910673	GG	TT	1946866540
SNP_P4_83517_27910675	NC_021165.1	Ca_kabuli_chr06	27910675	TT	GG	1946866542
SNP_P4_83518_27910810	NC_021165.1	Ca_kabuli_chr06	27910810	CC	TT	1946866544
SNP_P4_83519_27918301	NC_021165.1	Ca_kabuli_chr06	27918301	GG	AA	1946866546
SNP_P4_83520_27929932	NC_021165.1	Ca_kabuli_chr06	27929932	CC	AA	1946866548
SNP_P4_83521_27950006	NC_021165.1	Ca_kabuli_chr06	27950006	TT	AA	1946866549
SNP_P4_83522_27951131	NC_021165.1	Ca_kabuli_chr06	27951131	CC	GG	1946866551

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_83526_28004803	NC_021165.1	Ca_kabuli_chr06	28004803	TT	CC	1946866557
SNP_P4_83527_28010121	NC_021165.1	Ca_kabuli_chr06	28010121	TT	CC	1946866559
SNP_P4_83528_28010132	NC_021165.1	Ca_kabuli_chr06	28010132	CC	TT	1946866561
SNP_P4_83529_28010135	NC_021165.1	Ca_kabuli_chr06	28010135	GG	AA	1946866563
SNP_P4_83530_28017828	NC_021165.1	Ca_kabuli_chr06	28017828	TT	CC	1946866565
SNP_P4_83531_28068553	NC_021165.1	Ca_kabuli_chr06	28068553	TT	GG	1946866567
SNP_P4_83532_28082952	NC_021165.1	Ca_kabuli_chr06	28082952	TT	GG	1946866569
SNP_P4_83533_28084597	NC_021165.1	Ca_kabuli_chr06	28084597	GG	AA	1946866571
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SNP_P4_83536_28131878	NC_021165.1	Ca_kabuli_chr06	28131878	CC	AA	1946866577
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SNP_P4_83539_28139262	NC_021165.1	Ca_kabuli_chr06	28139262	TT	CC	1946866583
SNP_P4_83540_28139279	NC_021165.1	Ca_kabuli_chr06	28139279	AA	GG	1946866585
SNP_P4_83541_28139302	NC_021165.1	Ca_kabuli_chr06	28139302	AA	GG	1946866587
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SNP_P4_83545_28139648	NC_021165.1	Ca_kabuli_chr06	28139648	TT	AA	1946866595
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SNP_P4_83570_28263935	NC_021165.1	Ca_kabuli_chr06	28263935	AA	TT	1946866630
SNP_P4_83572_28275055	NC_021165.1	Ca_kabuli_chr06	28275055	GG	TT	1946866632
SNP_P4_83573_28276128	NC_021165.1	Ca_kabuli_chr06	28276128	AA	GG	1946866635
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_83578_28276589	NC_021165.1	Ca_kabuli_chr06	28276589	AA	GG	1946866645
SNP_P4_83579_28276605	NC_021165.1	Ca_kabuli_chr06	28276605	TT	CC	1946866647
SNP_P4_83580_28281778	NC_021165.1	Ca_kabuli_chr06	28281778	CC	TT	1946866649
SNP_P4_83581_28283779	NC_021165.1	Ca_kabuli_chr06	28283779	GG	CC	1946866651
SNP_P4_83582_28301419	NC_021165.1	Ca_kabuli_chr06	28301419	GG	AA	1946866653
SNP_P4_83583_28305119	NC_021165.1	Ca_kabuli_chr06	28305119	AA	GG	1946866655
SNP_P4_83584_28305144	NC_021165.1	Ca_kabuli_chr06	28305144	AA	GG	1946866657
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SNP_P4_83590_28323948	NC_021165.1	Ca_kabuli_chr06	28323948	CC	TT	1946866671
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SNP_P4_83592_28324048	NC_021165.1	Ca_kabuli_chr06	28324048	GG	TT	1946866675
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SNP_P4_83595_28324067	NC_021165.1	Ca_kabuli_chr06	28324067	TT	AA	1946866681
SNP_P4_83596_28324162	NC_021165.1	Ca_kabuli_chr06	28324162	TT	CC	1946866683
SNP_P4_83597_28324545	NC_021165.1	Ca_kabuli_chr06	28324545	AA	GG	1946866685
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SNP_P4_83600_28324811	NC_021165.1	Ca_kabuli_chr06	28324811	TT	GG	1946866692
SNP_P4_83601_28324837	NC_021165.1	Ca_kabuli_chr06	28324837	GG	TT	1946866694
SNP_P4_83602_28324861	NC_021165.1	Ca_kabuli_chr06	28324861	CC	TT	1946866696
SNP_P4_83603_28324895	NC_021165.1	Ca_kabuli_chr06	28324895	AA	GG	1946866698
SNP_P4_83604_28324898	NC_021165.1	Ca_kabuli_chr06	28324898	TT	AA	1946866700
SNP_P4_83605_28324906	NC_021165.1	Ca_kabuli_chr06	28324906	TT	CC	1946866702
SNP_P4_83606_28326153	NC_021165.1	Ca_kabuli_chr06	28326153	AA	GG	1946866704
SNP_P4_83608_28327043	NC_021165.1	Ca_kabuli_chr06	28327043	GG	AA	1946866706
SNP_P4_83609_28327235	NC_021165.1	Ca_kabuli_chr06	28327235	GG	AA	1946866708
SNP_P4_83610_28327241	NC_021165.1	Ca_kabuli_chr06	28327241	AA	TT	1946866710
SNP_P4_83612_28327975	NC_021165.1	Ca_kabuli_chr06	28327975	CC	TT	1946866712
SNP_P4_83613_28328440	NC_021165.1	Ca_kabuli_chr06	28328440	CC	AA	1946866714
SNP_P4_83614_28328449	NC_021165.1	Ca_kabuli_chr06	28328449	GG	TT	1946866716
SNP_P4_83615_28328835	NC_021165.1	Ca_kabuli_chr06	28328835	TT	CC	1946866718
SNP_P4_83616_28330617	NC_021165.1	Ca_kabuli_chr06	28330617	AA	GG	1946866720
SNP_P4_83617_28330651	NC_021165.1	Ca_kabuli_chr06	28330651	GG	AA	1946866722
SNP_P4_83618_28330901	NC_021165.1	Ca_kabuli_chr06	28330901	TT	AA	1946866724

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_83620_28330946	NC_021165.1	Ca_kabuli_chr06	28330946	GG	TT	1946866728
SNP_P4_83621_28330968	NC_021165.1	Ca_kabuli_chr06	28330968	CC	TT	1946866730
SNP_P4_83622_28331101	NC_021165.1	Ca_kabuli_chr06	28331101	TT	CC	1946866732
SNP_P4_83623_28331109	NC_021165.1	Ca_kabuli_chr06	28331109	CC	TT	1946866734
SNP_P4_83624_28331116	NC_021165.1	Ca_kabuli_chr06	28331116	AA	TT	1946866736
SNP_P4_83625_28331136	NC_021165.1	Ca_kabuli_chr06	28331136	TT	CC	1946866738
SNP_P4_83626_28332019	NC_021165.1	Ca_kabuli_chr06	28332019	AA	GG	1946866740
SNP_P4_83627_28332044	NC_021165.1	Ca_kabuli_chr06	28332044	CC	AA	1946866742
SNP_P4_83628_28332074	NC_021165.1	Ca_kabuli_chr06	28332074	AA	GG	1946866744
SNP_P4_83629_28332107	NC_021165.1	Ca_kabuli_chr06	28332107	TT	GG	1946866746
SNP_P4_83630_28332112	NC_021165.1	Ca_kabuli_chr06	28332112	CC	AA	1946866748
SNP_P4_83631_28332163	NC_021165.1	Ca_kabuli_chr06	28332163	CC	TT	1946866750
SNP_P4_83632_28332259	NC_021165.1	Ca_kabuli_chr06	28332259	TT	GG	1946866752
SNP_P4_83633_28332269	NC_021165.1	Ca_kabuli_chr06	28332269	AA	TT	1946866754
SNP_P4_83635_28332367	NC_021165.1	Ca_kabuli_chr06	28332367	AA	CC	1946866756
SNP_P4_83637_28332422	NC_021165.1	Ca_kabuli_chr06	28332422	TT	CC	1946866758
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SNP_P4_83640_28332483	NC_021165.1	Ca_kabuli_chr06	28332483	GG	TT	1946866764
SNP_P4_83641_28332489	NC_021165.1	Ca_kabuli_chr06	28332489	CC	TT	1946866766
SNP_P4_83642_28332550	NC_021165.1	Ca_kabuli_chr06	28332550	AA	GG	1946866769
SNP_P4_83643_28332561	NC_021165.1	Ca_kabuli_chr06	28332561	TT	GG	1946866771
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SNP_P4_83646_28332630	NC_021165.1	Ca_kabuli_chr06	28332630	TT	GG	1946866775
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SNP_P4_83651_28332722	NC_021165.1	Ca_kabuli_chr06	28332722	TT	CC	1946866782
SNP_P4_83652_28332726	NC_021165.1	Ca_kabuli_chr06	28332726	TT	GG	1946866784
SNP_P4_83654_28332774	NC_021165.1	Ca_kabuli_chr06	28332774	CC	TT	1946866786
SNP_P4_83655_28332786	NC_021165.1	Ca_kabuli_chr06	28332786	GG	AA	1946866789
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SNP_P4_83657_28332935	NC_021165.1	Ca_kabuli_chr06	28332935	GG	AA	1946866793
SNP_P4_83659_28333063	NC_021165.1	Ca_kabuli_chr06	28333063	AA	GG	1946866795
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SNP_P4_83661_28333220	NC_021165.1	Ca_kabuli_chr06	28333220	CC	TT	1946866799
SNP_P4_83662_28334226	NC_021165.1	Ca_kabuli_chr06	28334226	TT	CC	1946866801
SNP_P4_83663_28335846	NC_021165.1	Ca_kabuli_chr06	28335846	GG	AA	1946866803
SNP_P4_83665_28336720	NC_021165.1	Ca_kabuli_chr06	28336720	TT	CC	1946866805
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SNP_P4_83667_28336795	NC_021165.1	Ca_kabuli_chr06	28336795	GG	TT	1946866809

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_83669_28336893	NC_021165.1	Ca_kabuli_chr06	28336893	TT	AA	1946866814
SNP_P4_83670_28336896	NC_021165.1	Ca_kabuli_chr06	28336896	TT	AA	1946866816
SNP_P4_83671_28336902	NC_021165.1	Ca_kabuli_chr06	28336902	GG	AA	1946866818
SNP_P4_83672_28336938	NC_021165.1	Ca_kabuli_chr06	28336938	TT	GG	1946866820
SNP_P4_83673_28336951	NC_021165.1	Ca_kabuli_chr06	28336951	CC	TT	1946866822
SNP_P4_83674_28336967	NC_021165.1	Ca_kabuli_chr06	28336967	TT	CC	1946866824
SNP_P4_83675_28336971	NC_021165.1	Ca_kabuli_chr06	28336971	TT	CC	1946866826
SNP_P4_83676_28336980	NC_021165.1	Ca_kabuli_chr06	28336980	TT	AA	1946866828
SNP_P4_83677_28337031	NC_021165.1	Ca_kabuli_chr06	28337031	GG	AA	1946866830
SNP_P4_83678_28337049	NC_021165.1	Ca_kabuli_chr06	28337049	CC	AA	1946866832
SNP_P4_83679_28337130	NC_021165.1	Ca_kabuli_chr06	28337130	CC	AA	1946866834
SNP_P4_83680_28337162	NC_021165.1	Ca_kabuli_chr06	28337162	GG	TT	1946866836
SNP_P4_83681_28337170	NC_021165.1	Ca_kabuli_chr06	28337170	CC	GG	1946866838
SNP_P4_83682_28337205	NC_021165.1	Ca_kabuli_chr06	28337205	TT	CC	1946866840
SNP_P4_83683_28337230	NC_021165.1	Ca_kabuli_chr06	28337230	GG	AA	1946866842
SNP_P4_83684_28337239	NC_021165.1	Ca_kabuli_chr06	28337239	AA	GG	1946866844
SNP_P4_83685_28337316	NC_021165.1	Ca_kabuli_chr06	28337316	GG	AA	1946866846
SNP_P4_83686_28337356	NC_021165.1	Ca_kabuli_chr06	28337356	TT	GG	1946866848
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SNP_P4_83688_28337375	NC_021165.1	Ca_kabuli_chr06	28337375	TT	AA	1946866852
SNP_P4_83689_28342444	NC_021165.1	Ca_kabuli_chr06	28342444	GG	TT	1946866854
SNP_P4_83690_28347151	NC_021165.1	Ca_kabuli_chr06	28347151	GG	TT	1946866856
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SNP_P4_83694_28350993	NC_021165.1	Ca_kabuli_chr06	28350993	AA	GG	1946866865
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SNP_P4_83697_28351378	NC_021165.1	Ca_kabuli_chr06	28351378	CC	TT	1946866871
SNP_P4_83698_28353434	NC_021165.1	Ca_kabuli_chr06	28353434	AA	TT	1946866873
SNP_P4_83699_28353544	NC_021165.1	Ca_kabuli_chr06	28353544	CC	TT	1946866875
SNP_P4_83700_28353628	NC_021165.1	Ca_kabuli_chr06	28353628	GG	AA	1946866877
SNP_P4_83701_28354240	NC_021165.1	Ca_kabuli_chr06	28354240	CC	AA	1946866879
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SNP_P4_83703_28354622	NC_021165.1	Ca_kabuli_chr06	28354622	GG	AA	1946866883
SNP_P4_83704_28354828	NC_021165.1	Ca_kabuli_chr06	28354828	TT	CC	1946866885
SNP_P4_83706_28354982	NC_021165.1	Ca_kabuli_chr06	28354982	TT	CC	1946866887
SNP_P4_83707_28355011	NC_021165.1	Ca_kabuli_chr06	28355011	TT	CC	1946866889
SNP_P4_83708_28355086	NC_021165.1	Ca_kabuli_chr06	28355086	GG	AA	1946866891
SNP_P4_83709_28355195	NC_021165.1	Ca_kabuli_chr06	28355195	GG	TT	1946866892
SNP_P4_83710_28355225	NC_021165.1	Ca_kabuli_chr06	28355225	TT	AA	1946866894

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_83712_28355844	NC_021165.1	Ca_kabuli_chr06	28355844	CC	TT	1946866898
SNP_P4_83713_28356046	NC_021165.1	Ca_kabuli_chr06	28356046	AA	GG	1946866900
SNP_P4_83714_28374060	NC_021165.1	Ca_kabuli_chr06	28374060	TT	CC	1946866902
SNP_P4_83715_28386976	NC_021165.1	Ca_kabuli_chr06	28386976	AA	GG	1946866904
SNP_P4_83716_28387023	NC_021165.1	Ca_kabuli_chr06	28387023	CC	TT	1946866906
SNP_P4_83717_28388227	NC_021165.1	Ca_kabuli_chr06	28388227	CC	TT	1946866907
SNP_P4_83718_28388247	NC_021165.1	Ca_kabuli_chr06	28388247	TT	CC	1946866909
SNP_P4_83720_28394270	NC_021165.1	Ca_kabuli_chr06	28394270	TT	CC	1946866912
SNP_P4_83721_28394622	NC_021165.1	Ca_kabuli_chr06	28394622	TT	AA	1946866913
SNP_P4_83722_28394645	NC_021165.1	Ca_kabuli_chr06	28394645	TT	CC	1946866915
SNP_P4_83723_28396692	NC_021165.1	Ca_kabuli_chr06	28396692	AA	TT	1946866917
SNP_P4_83725_28427509	NC_021165.1	Ca_kabuli_chr06	28427509	AA	TT	1946866919
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SNP_P4_83744_28443714	NC_021165.1	Ca_kabuli_chr06	28443714	TT	CC	1946866952
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SNP_P4_83756_28444562	NC_021165.1	Ca_kabuli_chr06	28444562	AA	CC	1946866976

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_83760_28445005	NC_021165.1	Ca_kabuli_chr06	28445005	GG	TT	1946866982
SNP_P4_83761_28445089	NC_021165.1	Ca_kabuli_chr06	28445089	GG	TT	1946866983
SNP_P4_83762_28453621	NC_021165.1	Ca_kabuli_chr06	28453621	TT	CC	1946866986
SNP_P4_83763_28484587	NC_021165.1	Ca_kabuli_chr06	28484587	AA	TT	1946866988
SNP_P4_83764_28495536	NC_021165.1	Ca_kabuli_chr06	28495536	TT	CC	1946866990
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SNP_P4_83769_28503510	NC_021165.1	Ca_kabuli_chr06	28503510	AA	GG	1946866998
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SNP_P4_83771_28503574	NC_021165.1	Ca_kabuli_chr06	28503574	GG	AA	1946867002
SNP_P4_83772_28503750	NC_021165.1	Ca_kabuli_chr06	28503750	AA	GG	1946867004
SNP_P4_83773_28504073	NC_021165.1	Ca_kabuli_chr06	28504073	CC	TT	1946867006
SNP_P4_83774_28505148	NC_021165.1	Ca_kabuli_chr06	28505148	CC	TT	1946867008
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SNP_P4_83779_28511331	NC_021165.1	Ca_kabuli_chr06	28511331	AA	CC	1946867018
SNP_P4_83780_28511333	NC_021165.1	Ca_kabuli_chr06	28511333	TT	AA	1946867020
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SNP_P4_83788_28513971	NC_021165.1	Ca_kabuli_chr06	28513971	TT	AA	1946867036
SNP_P4_83789_28513975	NC_021165.1	Ca_kabuli_chr06	28513975	TT	GG	1946867038
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SNP_P4_83792_28515791	NC_021165.1	Ca_kabuli_chr06	28515791	CC	TT	1946867044
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SNP_P4_83797_28521046	NC_021165.1	Ca_kabuli_chr06	28521046	CC	TT	1946867048
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SNP_P4_83800_28521107	NC_021165.1	Ca_kabuli_chr06	28521107	TT	CC	1946867052
SNP_P4_83801_28521115	NC_021165.1	Ca_kabuli_chr06	28521115	GG	AA	1946867054
SNP_P4_83802_28521123	NC_021165.1	Ca_kabuli_chr06	28521123	CC	TT	1946867056
SNP_P4_83803_28521222	NC_021165.1	Ca_kabuli_chr06	28521222	AA	TT	1946867058
SNP_P4_83804_28521272	NC_021165.1	Ca_kabuli_chr06	28521272	TT	AA	1946867060
SNP_P4_83805_28521273	NC_021165.1	Ca_kabuli_chr06	28521273	TT	CC	1946867062

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_83806_28521312	NC_021165.1	Ca_kabuli_chr06	28521312	GG	AA	1946867064
SNP_P4_83807_28521382	NC_021165.1	Ca_kabuli_chr06	28521382	AA	GG	1946867066
SNP_P4_83808_28521575	NC_021165.1	Ca_kabuli_chr06	28521575	AA	CC	1946867068
SNP_P4_83809_28521576	NC_021165.1	Ca_kabuli_chr06	28521576	AA	TT	1946867070
SNP_P4_83810_28521618	NC_021165.1	Ca_kabuli_chr06	28521618	TT	GG	1946867072
SNP_P4_83811_28521699	NC_021165.1	Ca_kabuli_chr06	28521699	CC	GG	1946867074
SNP_P4_83812_28521788	NC_021165.1	Ca_kabuli_chr06	28521788	AA	GG	1946867076
SNP_P4_83813_28536075	NC_021165.1	Ca_kabuli_chr06	28536075	AA	GG	1946867078
SNP_P4_83814_28537120	NC_021165.1	Ca_kabuli_chr06	28537120	CC	GG	1946867080
SNP_P4_83815_28537166	NC_021165.1	Ca_kabuli_chr06	28537166	AA	CC	1946867083
SNP_P4_83816_28546203	NC_021165.1	Ca_kabuli_chr06	28546203	TT	CC	1946867085
SNP_P4_83817_28546529	NC_021165.1	Ca_kabuli_chr06	28546529	CC	GG	1946867087
SNP_P4_83818_28546531	NC_021165.1	Ca_kabuli_chr06	28546531	CC	AA	1946867089
SNP_P4_83819_28550935	NC_021165.1	Ca_kabuli_chr06	28550935	GG	AA	1946867091
SNP_P4_83820_28553973	NC_021165.1	Ca_kabuli_chr06	28553973	GG	AA	1946867093
SNP_P4_83821_28572685	NC_021165.1	Ca_kabuli_chr06	28572685	GG	TT	1946867095
SNP_P4_83822_28575607	NC_021165.1	Ca_kabuli_chr06	28575607	TT	CC	1946867097
SNP_P4_83825_28606807	NC_021165.1	Ca_kabuli_chr06	28606807	TT	CC	1946867099
SNP_P4_83826_28644615	NC_021165.1	Ca_kabuli_chr06	28644615	AA	GG	1946867102
SNP_P4_83827_28644659	NC_021165.1	Ca_kabuli_chr06	28644659	CC	AA	1946867104
SNP_P4_83828_28644671	NC_021165.1	Ca_kabuli_chr06	28644671	AA	TT	1946867106
SNP_P4_83829_28644675	NC_021165.1	Ca_kabuli_chr06	28644675	AA	TT	1946867108
SNP_P4_83830_28670253	NC_021165.1	Ca_kabuli_chr06	28670253	CC	TT	1946867110
SNP_P4_83831_28747316	NC_021165.1	Ca_kabuli_chr06	28747316	CC	TT	1946867112
SNP_P4_83832_28747326	NC_021165.1	Ca_kabuli_chr06	28747326	CC	AA	1946867114
SNP_P4_83833_28747340	NC_021165.1	Ca_kabuli_chr06	28747340	AA	CC	1946867116
SNP_P4_83834_28747346	NC_021165.1	Ca_kabuli_chr06	28747346	TT	CC	1946867118
SNP_P4_83835_28772270	NC_021165.1	Ca_kabuli_chr06	28772270	TT	GG	1946867120
SNP_P4_83836_28772306	NC_021165.1	Ca_kabuli_chr06	28772306	CC	TT	1946867122
SNP_P4_83837_28785380	NC_021165.1	Ca_kabuli_chr06	28785380	AA	GG	1946867124
SNP_P4_83838_28801048	NC_021165.1	Ca_kabuli_chr06	28801048	TT	CC	1946867126
SNP_P4_83839_28821153	NC_021165.1	Ca_kabuli_chr06	28821153	GG	AA	1946867128
SNP_P4_83840_28821161	NC_021165.1	Ca_kabuli_chr06	28821161	CC	AA	1946867130
SNP_P4_83841_28821547	NC_021165.1	Ca_kabuli_chr06	28821547	GG	AA	1946867133
SNP_P4_83842_28821556	NC_021165.1	Ca_kabuli_chr06	28821556	AA	GG	1946867135
SNP_P4_83843_28821565	NC_021165.1	Ca_kabuli_chr06	28821565	CC	TT	1946867137
SNP_P4_83844_28821596	NC_021165.1	Ca_kabuli_chr06	28821596	GG	AA	1946867139
SNP_P4_83845_28821608	NC_021165.1	Ca_kabuli_chr06	28821608	TT	AA	1946867141
SNP_P4_83846_28821723	NC_021165.1	Ca_kabuli_chr06	28821723	TT	CC	1946867143
SNP_P4_83847_28821765	NC_021165.1	Ca_kabuli_chr06	28821765	TT	CC	1946867145
SNP_P4_83848_28821825	NC_021165.1	Ca_kabuli_chr06	28821825	TT	CC	1946867148
SNP_P4_83849_28821961	NC_021165.1	Ca_kabuli_chr06	28821961	GG	AA	1946867150

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_83851_28821974	NC_021165.1	Ca_kabuli_chr06	28821974	CC	TT	1946867154
SNP_P4_83852_28821985	NC_021165.1	Ca_kabuli_chr06	28821985	CC	TT	1946867156
SNP_P4_83853_28821986	NC_021165.1	Ca_kabuli_chr06	28821986	AA	GG	1946867158
SNP_P4_83854_28822021	NC_021165.1	Ca_kabuli_chr06	28822021	TT	GG	1946867160
SNP_P4_83855_28822053	NC_021165.1	Ca_kabuli_chr06	28822053	AA	CC	1946867162
SNP_P4_83856_28822090	NC_021165.1	Ca_kabuli_chr06	28822090	AA	GG	1946867164
SNP_P4_83857_28822093	NC_021165.1	Ca_kabuli_chr06	28822093	AA	GG	1946867166
SNP_P4_83858_28822099	NC_021165.1	Ca_kabuli_chr06	28822099	TT	AA	1946867168
SNP_P4_83859_28822113	NC_021165.1	Ca_kabuli_chr06	28822113	GG	AA	1946867170
SNP_P4_83860_28822172	NC_021165.1	Ca_kabuli_chr06	28822172	TT	GG	1946867172
SNP_P4_83861_28822184	NC_021165.1	Ca_kabuli_chr06	28822184	AA	GG	1946867174
SNP_P4_83862_28822193	NC_021165.1	Ca_kabuli_chr06	28822193	AA	GG	1946867176
SNP_P4_83863_28822194	NC_021165.1	Ca_kabuli_chr06	28822194	TT	CC	1946867178
SNP_P4_83864_28825491	NC_021165.1	Ca_kabuli_chr06	28825491	TT	AA	1946867180
SNP_P4_83866_28878425	NC_021165.1	Ca_kabuli_chr06	28878425	AA	GG	1946867182
SNP_P4_83867_28878435	NC_021165.1	Ca_kabuli_chr06	28878435	TT	CC	1946867184
SNP_P4_83869_28878917	NC_021165.1	Ca_kabuli_chr06	28878917	TT	CC	1946867186
SNP_P4_83870_28911504	NC_021165.1	Ca_kabuli_chr06	28911504	TT	CC	1946867188
SNP_P4_83871_28917029	NC_021165.1	Ca_kabuli_chr06	28917029	CC	TT	1946867190
SNP_P4_83872_28917038	NC_021165.1	Ca_kabuli_chr06	28917038	CC	AA	1946867192
SNP_P4_83873_28943020	NC_021165.1	Ca_kabuli_chr06	28943020	TT	CC	1946867194
SNP_P4_83874_28957647	NC_021165.1	Ca_kabuli_chr06	28957647	AA	TT	1946867197
SNP_P4_83875_28977220	NC_021165.1	Ca_kabuli_chr06	28977220	AA	CC	1946867199
SNP_P4_83877_28977593	NC_021165.1	Ca_kabuli_chr06	28977593	AA	TT	1946867201
SNP_P4_83878_28980567	NC_021165.1	Ca_kabuli_chr06	28980567	GG	AA	1946867203
SNP_P4_83879_28981047	NC_021165.1	Ca_kabuli_chr06	28981047	TT	CC	1946867205
SNP_P4_83881_29063216	NC_021165.1	Ca_kabuli_chr06	29063216	TT	CC	1946867207
SNP_P4_83882_29063220	NC_021165.1	Ca_kabuli_chr06	29063220	TT	CC	1946867209
SNP_P4_83883_29063436	NC_021165.1	Ca_kabuli_chr06	29063436	AA	GG	1946867212
SNP_P4_83884_29063583	NC_021165.1	Ca_kabuli_chr06	29063583	TT	CC	1946867214
SNP_P4_83885_29070943	NC_021165.1	Ca_kabuli_chr06	29070943	GG	AA	1946867216
SNP_P4_83886_29070944	NC_021165.1	Ca_kabuli_chr06	29070944	CC	TT	1946867218
SNP_P4_83887_29075918	NC_021165.1	Ca_kabuli_chr06	29075918	AA	CC	1946867219
SNP_P4_83889_29109091	NC_021165.1	Ca_kabuli_chr06	29109091	AA	CC	1946867221
SNP_P4_83890_29109125	NC_021165.1	Ca_kabuli_chr06	29109125	AA	TT	1946867223
SNP_P4_83891_29109127	NC_021165.1	Ca_kabuli_chr06	29109127	AA	GG	1946867225
SNP_P4_83892_29109295	NC_021165.1	Ca_kabuli_chr06	29109295	TT	CC	1946867227
SNP_P4_83893_29112743	NC_021165.1	Ca_kabuli_chr06	29112743	CC	TT	1946867229
SNP_P4_83894_29139878	NC_021165.1	Ca_kabuli_chr06	29139878	TT	GG	1946867231
SNP_P4_83895_29145891	NC_021165.1	Ca_kabuli_chr06	29145891	TT	CC	1946867233
SNP_P4_83896_29146009	NC_021165.1	Ca_kabuli_chr06	29146009	CC	AA	1946867235

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_83898_29177289	NC_021165.1	Ca_kabuli_chr06	29177289	AA	GG	1946867239
SNP_P4_83899_29177617	NC_021165.1	Ca_kabuli_chr06	29177617	AA	CC	1946867241
SNP_P4_83900_29177662	NC_021165.1	Ca_kabuli_chr06	29177662	AA	GG	1946867243
SNP_P4_83901_29177666	NC_021165.1	Ca_kabuli_chr06	29177666	AA	GG	1946867245
SNP_P4_83902_29185012	NC_021165.1	Ca_kabuli_chr06	29185012	GG	AA	1946867247
SNP_P4_83903_29185028	NC_021165.1	Ca_kabuli_chr06	29185028	TT	GG	1946867249
SNP_P4_83904_29185039	NC_021165.1	Ca_kabuli_chr06	29185039	AA	GG	1946867251
SNP_P4_83905_29185075	NC_021165.1	Ca_kabuli_chr06	29185075	TT	CC	1946867253
SNP_P4_83906_29185099	NC_021165.1	Ca_kabuli_chr06	29185099	GG	AA	1946867255
SNP_P4_83907_29185102	NC_021165.1	Ca_kabuli_chr06	29185102	GG	AA	1946867257
SNP_P4_83908_29185197	NC_021165.1	Ca_kabuli_chr06	29185197	AA	TT	1946867259
SNP_P4_83909_29185203	NC_021165.1	Ca_kabuli_chr06	29185203	TT	CC	1946867260
SNP_P4_83910_29185206	NC_021165.1	Ca_kabuli_chr06	29185206	GG	AA	1946867262
SNP_P4_83911_29185209	NC_021165.1	Ca_kabuli_chr06	29185209	AA	GG	1946867264
SNP_P4_83912_29185224	NC_021165.1	Ca_kabuli_chr06	29185224	TT	AA	1946867266
SNP_P4_83913_29185239	NC_021165.1	Ca_kabuli_chr06	29185239	CC	TT	1946867268
SNP_P4_83914_29185240	NC_021165.1	Ca_kabuli_chr06	29185240	CC	TT	1946867270
SNP_P4_83915_29185241	NC_021165.1	Ca_kabuli_chr06	29185241	AA	TT	1946867272
SNP_P4_83916_29185257	NC_021165.1	Ca_kabuli_chr06	29185257	TT	AA	1946867274
SNP_P4_83917_29185291	NC_021165.1	Ca_kabuli_chr06	29185291	GG	CC	1946867276
SNP_P4_83918_29185292	NC_021165.1	Ca_kabuli_chr06	29185292	CC	TT	1946867278
SNP_P4_83919_29185318	NC_021165.1	Ca_kabuli_chr06	29185318	AA	GG	1946867280
SNP_P4_83920_29185479	NC_021165.1	Ca_kabuli_chr06	29185479	AA	GG	1946867282
SNP_P4_83921_29194241	NC_021165.1	Ca_kabuli_chr06	29194241	AA	TT	1946867284
SNP_P4_83922_29194244	NC_021165.1	Ca_kabuli_chr06	29194244	TT	GG	1946867286
SNP_P4_83923_29229412	NC_021165.1	Ca_kabuli_chr06	29229412	GG	AA	1946867288
SNP_P4_83924_29229711	NC_021165.1	Ca_kabuli_chr06	29229711	TT	GG	1946867290
SNP_P4_83928_29283571	NC_021165.1	Ca_kabuli_chr06	29283571	GG	AA	1946867292
SNP_P4_83929_29290170	NC_021165.1	Ca_kabuli_chr06	29290170	GG	TT	1946867294
SNP_P4_83930_29290184	NC_021165.1	Ca_kabuli_chr06	29290184	GG	AA	1946867296
SNP_P4_83931_29290879	NC_021165.1	Ca_kabuli_chr06	29290879	AA	GG	1946867298
SNP_P4_83932_29290931	NC_021165.1	Ca_kabuli_chr06	29290931	CC	TT	1946867300
SNP_P4_83934_29316800	NC_021165.1	Ca_kabuli_chr06	29316800	TT	GG	1946867302
SNP_P4_83936_29397129	NC_021165.1	Ca_kabuli_chr06	29397129	CC	TT	1946867304
SNP_P4_83937_29402464	NC_021165.1	Ca_kabuli_chr06	29402464	CC	AA	1946867307
SNP_P4_83938_29465821	NC_021165.1	Ca_kabuli_chr06	29465821	TT	AA	1946867309
SNP_P4_83940_29480841	NC_021165.1	Ca_kabuli_chr06	29480841	TT	CC	1946867311
SNP_P4_83941_29487047	NC_021165.1	Ca_kabuli_chr06	29487047	GG	AA	1946867313
SNP_P4_83942_29487049	NC_021165.1	Ca_kabuli_chr06	29487049	AA	GG	1946867315
SNP_P4_83944_29488497	NC_021165.1	Ca_kabuli_chr06	29488497	TT	CC	1946867317
SNP_P4_83945_29488522	NC_021165.1	Ca_kabuli_chr06	29488522	TT	GG	1946867319

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_83947_29488581	NC_021165.1	Ca_kabuli_chr06	29488581	GG	AA	1946867323
SNP_P4_83948_29488620	NC_021165.1	Ca_kabuli_chr06	29488620	AA	CC	1946867325
SNP_P4_83949_29488782	NC_021165.1	Ca_kabuli_chr06	29488782	TT	CC	1946867327
SNP_P4_83950_29491985	NC_021165.1	Ca_kabuli_chr06	29491985	TT	CC	1946867329
SNP_P4_83951_29491996	NC_021165.1	Ca_kabuli_chr06	29491996	AA	CC	1946867331
SNP_P4_83952_29492030	NC_021165.1	Ca_kabuli_chr06	29492030	GG	AA	1946867333
SNP_P4_83953_29492032	NC_021165.1	Ca_kabuli_chr06	29492032	TT	CC	1946867335
SNP_P4_83954_29492042	NC_021165.1	Ca_kabuli_chr06	29492042	GG	AA	1946867337
SNP_P4_83955_29492051	NC_021165.1	Ca_kabuli_chr06	29492051	CC	AA	1946867339
SNP_P4_83956_29492078	NC_021165.1	Ca_kabuli_chr06	29492078	AA	GG	1946867341
SNP_P4_83957_29492187	NC_021165.1	Ca_kabuli_chr06	29492187	TT	CC	1946867343
SNP_P4_83958_29496351	NC_021165.1	Ca_kabuli_chr06	29496351	TT	GG	1946867345
SNP_P4_83959_29497312	NC_021165.1	Ca_kabuli_chr06	29497312	GG	AA	1946867347
SNP_P4_83960_29500099	NC_021165.1	Ca_kabuli_chr06	29500099	GG	AA	1946867349
SNP_P4_83961_29500132	NC_021165.1	Ca_kabuli_chr06	29500132	TT	AA	1946867351
SNP_P4_83962_29500136	NC_021165.1	Ca_kabuli_chr06	29500136	AA	GG	1946867353
SNP_P4_83963_29500141	NC_021165.1	Ca_kabuli_chr06	29500141	AA	GG	1946867355
SNP_P4_83964_29500162	NC_021165.1	Ca_kabuli_chr06	29500162	TT	CC	1946867357
SNP_P4_83965_29500192	NC_021165.1	Ca_kabuli_chr06	29500192	TT	CC	1946867359
SNP_P4_83966_29500228	NC_021165.1	Ca_kabuli_chr06	29500228	CC	TT	1946867361
SNP_P4_83967_29500802	NC_021165.1	Ca_kabuli_chr06	29500802	AA	GG	1946867363
SNP_P4_83968_29514652	NC_021165.1	Ca_kabuli_chr06	29514652	CC	AA	1946867365
SNP_P4_83969_29523568	NC_021165.1	Ca_kabuli_chr06	29523568	GG	AA	1946867367
SNP_P4_83970_29523593	NC_021165.1	Ca_kabuli_chr06	29523593	TT	GG	1946867368
SNP_P4_83971_29523595	NC_021165.1	Ca_kabuli_chr06	29523595	AA	GG	1946867370
SNP_P4_83972_29523596	NC_021165.1	Ca_kabuli_chr06	29523596	GG	AA	1946867372
SNP_P4_83973_29524866	NC_021165.1	Ca_kabuli_chr06	29524866	TT	CC	1946867374
SNP_P4_83974_29531053	NC_021165.1	Ca_kabuli_chr06	29531053	CC	TT	1946867376
SNP_P4_83975_29536077	NC_021165.1	Ca_kabuli_chr06	29536077	AA	GG	1946867378
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SNP_P4_83977_29536193	NC_021165.1	Ca_kabuli_chr06	29536193	CC	TT	1946867382
SNP_P4_83979_29536251	NC_021165.1	Ca_kabuli_chr06	29536251	CC	TT	1946867384
SNP_P4_83980_29536603	NC_021165.1	Ca_kabuli_chr06	29536603	TT	CC	1946867386
SNP_P4_83981_29537264	NC_021165.1	Ca_kabuli_chr06	29537264	AA	CC	1946867388
SNP_P4_83982_29557208	NC_021165.1	Ca_kabuli_chr06	29557208	AA	TT	1946867390
SNP_P4_83983_29557490	NC_021165.1	Ca_kabuli_chr06	29557490	TT	GG	1946867392
SNP_P4_83984_29578199	NC_021165.1	Ca_kabuli_chr06	29578199	AA	TT	1946867394
SNP_P4_83985_29655439	NC_021165.1	Ca_kabuli_chr06	29655439	CC	TT	1946867396
SNP_P4_83986_29655457	NC_021165.1	Ca_kabuli_chr06	29655457	TT	CC	1946867398
SNP_P4_83987_29667435	NC_021165.1	Ca_kabuli_chr06	29667435	CC	AA	1946867400
SNP_P4_83988_29668972	NC_021165.1	Ca_kabuli_chr06	29668972	GG	TT	1946867401

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_83991_29669062	NC_021165.1	Ca_kabuli_chr06	29669062	CC	TT	1946867405
SNP_P4_83992_29669192	NC_021165.1	Ca_kabuli_chr06	29669192	GG	AA	1946867407
SNP_P4_83993_29669216	NC_021165.1	Ca_kabuli_chr06	29669216	CC	AA	1946867409
SNP_P4_83994_29669337	NC_021165.1	Ca_kabuli_chr06	29669337	CC	TT	1946867411
SNP_P4_83995_29678351	NC_021165.1	Ca_kabuli_chr06	29678351	TT	GG	1946867413
SNP_P4_83996_29678450	NC_021165.1	Ca_kabuli_chr06	29678450	TT	CC	1946867415
SNP_P4_83997_29684299	NC_021165.1	Ca_kabuli_chr06	29684299	CC	TT	1946867417
SNP_P4_83998_29684729	NC_021165.1	Ca_kabuli_chr06	29684729	AA	GG	1946867419
SNP_P4_83999_29686211	NC_021165.1	Ca_kabuli_chr06	29686211	GG	AA	1946867421
SNP_P4_84000_29686449	NC_021165.1	Ca_kabuli_chr06	29686449	TT	CC	1946867423
SNP_P4_84001_29686562	NC_021165.1	Ca_kabuli_chr06	29686562	TT	CC	1946867425
SNP_P4_84002_29687529	NC_021165.1	Ca_kabuli_chr06	29687529	AA	GG	1946867426
SNP_P4_84003_29687581	NC_021165.1	Ca_kabuli_chr06	29687581	CC	TT	1946867428
SNP_P4_84004_29711060	NC_021165.1	Ca_kabuli_chr06	29711060	AA	CC	1946867430
SNP_P4_84005_29711127	NC_021165.1	Ca_kabuli_chr06	29711127	AA	GG	1946867432
SNP_P4_84006_29711164	NC_021165.1	Ca_kabuli_chr06	29711164	AA	GG	1946867434
SNP_P4_84007_29711168	NC_021165.1	Ca_kabuli_chr06	29711168	CC	AA	1946867436
SNP_P4_84008_29711320	NC_021165.1	Ca_kabuli_chr06	29711320	AA	GG	1946867438
SNP_P4_84009_29711641	NC_021165.1	Ca_kabuli_chr06	29711641	TT	GG	1946867440
SNP_P4_84010_29713016	NC_021165.1	Ca_kabuli_chr06	29713016	GG	AA	1946867443
SNP_P4_84011_29713112	NC_021165.1	Ca_kabuli_chr06	29713112	GG	AA	1946867444
SNP_P4_84012_29713121	NC_021165.1	Ca_kabuli_chr06	29713121	GG	AA	1946867446
SNP_P4_84013_29713242	NC_021165.1	Ca_kabuli_chr06	29713242	GG	CC	1946867448
SNP_P4_84014_29713533	NC_021165.1	Ca_kabuli_chr06	29713533	GG	AA	1946867450
SNP_P4_84015_29713593	NC_021165.1	Ca_kabuli_chr06	29713593	TT	GG	1946867452
SNP_P4_84016_29713692	NC_021165.1	Ca_kabuli_chr06	29713692	CC	TT	1946867454
SNP_P4_84017_29713776	NC_021165.1	Ca_kabuli_chr06	29713776	TT	GG	1946867456
SNP_P4_84018_29713938	NC_021165.1	Ca_kabuli_chr06	29713938	TT	GG	1946867457
SNP_P4_84019_29713968	NC_021165.1	Ca_kabuli_chr06	29713968	AA	GG	1946867459
SNP_P4_84020_29714019	NC_021165.1	Ca_kabuli_chr06	29714019	TT	CC	1946867461
SNP_P4_84021_29715995	NC_021165.1	Ca_kabuli_chr06	29715995	AA	CC	1946867462
SNP_P4_84022_29716576	NC_021165.1	Ca_kabuli_chr06	29716576	AA	GG	1946867463
SNP_P4_84023_29716592	NC_021165.1	Ca_kabuli_chr06	29716592	TT	AA	1946867464
SNP_P4_84024_29724604	NC_021165.1	Ca_kabuli_chr06	29724604	TT	AA	1946867465
SNP_P4_84025_29724632	NC_021165.1	Ca_kabuli_chr06	29724632	CC	GG	1946867466
SNP_P4_84026_29724720	NC_021165.1	Ca_kabuli_chr06	29724720	AA	TT	1946867467
SNP_P4_84027_29724848	NC_021165.1	Ca_kabuli_chr06	29724848	CC	TT	1946867468
SNP_P4_84028_29724909	NC_021165.1	Ca_kabuli_chr06	29724909	AA	TT	1946867469
SNP_P4_84029_29747947	NC_021165.1	Ca_kabuli_chr06	29747947	AA	CC	1946867470
SNP_P4_84030_29778324	NC_021165.1	Ca_kabuli_chr06	29778324	GG	AA	1946867471
SNP_P4_84031_29784839	NC_021165.1	Ca_kabuli_chr06	29784839	AA	GG	1946867472

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_84033_29784919	NC_021165.1	Ca_kabuli_chr06	29784919	AA	GG	1946867474
SNP_P4_84034_29784947	NC_021165.1	Ca_kabuli_chr06	29784947	TT	AA	1946867475
SNP_P4_84035_29784951	NC_021165.1	Ca_kabuli_chr06	29784951	AA	GG	1946867476
SNP_P4_84036_29785015	NC_021165.1	Ca_kabuli_chr06	29785015	GG	AA	1946867477
SNP_P4_84037_29785043	NC_021165.1	Ca_kabuli_chr06	29785043	AA	TT	1946867478
SNP_P4_84038_29785057	NC_021165.1	Ca_kabuli_chr06	29785057	TT	GG	1946867479
SNP_P4_84039_29785080	NC_021165.1	Ca_kabuli_chr06	29785080	CC	TT	1946867480
SNP_P4_84040_29785141	NC_021165.1	Ca_kabuli_chr06	29785141	TT	GG	1946867481
SNP_P4_84041_29785156	NC_021165.1	Ca_kabuli_chr06	29785156	AA	TT	1946867482
SNP_P4_84042_29785160	NC_021165.1	Ca_kabuli_chr06	29785160	AA	GG	1946867484
SNP_P4_84043_29785193	NC_021165.1	Ca_kabuli_chr06	29785193	TT	AA	1946867486
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SNP_P4_84046_29823978	NC_021165.1	Ca_kabuli_chr06	29823978	AA	GG	1946867490
SNP_P4_84048_29833269	NC_021165.1	Ca_kabuli_chr06	29833269	GG	TT	1946867492
SNP_P4_84049_29836471	NC_021165.1	Ca_kabuli_chr06	29836471	AA	TT	1946867494
SNP_P4_84050_29852188	NC_021165.1	Ca_kabuli_chr06	29852188	TT	CC	1946867496
SNP_P4_84051_29853588	NC_021165.1	Ca_kabuli_chr06	29853588	GG	AA	1946867498
SNP_P4_84052_29868991	NC_021165.1	Ca_kabuli_chr06	29868991	CC	TT	1946867500
SNP_P4_84053_29904438	NC_021165.1	Ca_kabuli_chr06	29904438	TT	AA	1946867502
SNP_P4_84054_29909227	NC_021165.1	Ca_kabuli_chr06	29909227	CC	TT	1946867504
SNP_P4_84055_29909310	NC_021165.1	Ca_kabuli_chr06	29909310	AA	GG	1946867506
SNP_P4_84056_29909319	NC_021165.1	Ca_kabuli_chr06	29909319	CC	AA	1946867508
SNP_P4_84057_29909323	NC_021165.1	Ca_kabuli_chr06	29909323	AA	TT	1946867510
SNP_P4_84058_29909325	NC_021165.1	Ca_kabuli_chr06	29909325	GG	TT	1946867511
SNP_P4_84059_29909482	NC_021165.1	Ca_kabuli_chr06	29909482	GG	CC	1946867513
SNP_P4_84060_29909483	NC_021165.1	Ca_kabuli_chr06	29909483	GG	AA	1946867515
SNP_P4_84061_29909535	NC_021165.1	Ca_kabuli_chr06	29909535	TT	CC	1946867517
SNP_P4_84062_29909631	NC_021165.1	Ca_kabuli_chr06	29909631	AA	GG	1946867519
SNP_P4_84064_29940794	NC_021165.1	Ca_kabuli_chr06	29940794	TT	CC	1946867521
SNP_P4_84067_29969813	NC_021165.1	Ca_kabuli_chr06	29969813	TT	CC	1946867523
SNP_P4_84068_29994580	NC_021165.1	Ca_kabuli_chr06	29994580	AA	TT	1946867525
SNP_P4_84069_30057265	NC_021165.1	Ca_kabuli_chr06	30057265	CC	TT	1946867527
SNP_P4_84070_30088106	NC_021165.1	Ca_kabuli_chr06	30088106	GG	AA	1946867529
SNP_P4_84071_30093681	NC_021165.1	Ca_kabuli_chr06	30093681	GG	CC	1946867531
SNP_P4_84075_30135094	NC_021165.1	Ca_kabuli_chr06	30135094	CC	GG	1946867533
SNP_P4_84076_30136627	NC_021165.1	Ca_kabuli_chr06	30136627	TT	AA	1946867535
SNP_P4_84077_30136645	NC_021165.1	Ca_kabuli_chr06	30136645	CC	TT	1946867537
SNP_P4_84078_30136657	NC_021165.1	Ca_kabuli_chr06	30136657	TT	GG	1946867539
SNP_P4_84079_30136666	NC_021165.1	Ca_kabuli_chr06	30136666	CC	TT	1946867541
SNP_P4_84080_30136668	NC_021165.1	Ca_kabuli_chr06	30136668	CC	TT	1946867543
SNP_P4_84081_30146292	NC_021165.1	Ca_kabuli_chr06	30146292	TT	AA	1946867545

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_84083_30149738	NC_021165.1	Ca_kabuli_chr06	30149738	GG	AA	1946867549
SNP_P4_84084_30149851	NC_021165.1	Ca_kabuli_chr06	30149851	AA	GG	1946867550
SNP_P4_84085_30149892	NC_021165.1	Ca_kabuli_chr06	30149892	CC	TT	1946867552
SNP_P4_84086_30149894	NC_021165.1	Ca_kabuli_chr06	30149894	AA	TT	1946867554
SNP_P4_84087_30150144	NC_021165.1	Ca_kabuli_chr06	30150144	GG	AA	1946867557
SNP_P4_84088_30151465	NC_021165.1	Ca_kabuli_chr06	30151465	CC	TT	1946867558
SNP_P4_84089_30151470	NC_021165.1	Ca_kabuli_chr06	30151470	CC	TT	1946867560
SNP_P4_84090_30151489	NC_021165.1	Ca_kabuli_chr06	30151489	CC	TT	1946867562
SNP_P4_84091_30151500	NC_021165.1	Ca_kabuli_chr06	30151500	CC	TT	1946867564
SNP_P4_84092_30151509	NC_021165.1	Ca_kabuli_chr06	30151509	AA	GG	1946867566
SNP_P4_84093_30151533	NC_021165.1	Ca_kabuli_chr06	30151533	GG	AA	1946867568
SNP_P4_84094_30151540	NC_021165.1	Ca_kabuli_chr06	30151540	AA	GG	1946867570
SNP_P4_84095_30151542	NC_021165.1	Ca_kabuli_chr06	30151542	AA	GG	1946867572
SNP_P4_84096_30151576	NC_021165.1	Ca_kabuli_chr06	30151576	TT	CC	1946867574
SNP_P4_84097_30151598	NC_021165.1	Ca_kabuli_chr06	30151598	CC	TT	1946867576
SNP_P4_84098_30151605	NC_021165.1	Ca_kabuli_chr06	30151605	AA	GG	1946867578
SNP_P4_84099_30153852	NC_021165.1	Ca_kabuli_chr06	30153852	GG	AA	1946867580
SNP_P4_84100_30155732	NC_021165.1	Ca_kabuli_chr06	30155732	CC	TT	1946867582
SNP_P4_84101_30155934	NC_021165.1	Ca_kabuli_chr06	30155934	GG	AA	1946867583
SNP_P4_84102_30159272	NC_021165.1	Ca_kabuli_chr06	30159272	AA	TT	1946867585
SNP_P4_84103_30159289	NC_021165.1	Ca_kabuli_chr06	30159289	AA	CC	1946867587
SNP_P4_84104_30159666	NC_021165.1	Ca_kabuli_chr06	30159666	AA	GG	1946867589
SNP_P4_84105_30159680	NC_021165.1	Ca_kabuli_chr06	30159680	TT	CC	1946867591
SNP_P4_84106_30164325	NC_021165.1	Ca_kabuli_chr06	30164325	TT	CC	1946867593
SNP_P4_84107_30165897	NC_021165.1	Ca_kabuli_chr06	30165897	TT	GG	1946867595
SNP_P4_84108_30165925	NC_021165.1	Ca_kabuli_chr06	30165925	TT	CC	1946867597
SNP_P4_84109_30165929	NC_021165.1	Ca_kabuli_chr06	30165929	TT	GG	1946867599
SNP_P4_84110_30165937	NC_021165.1	Ca_kabuli_chr06	30165937	GG	AA	1946867601
SNP_P4_84111_30166250	NC_021165.1	Ca_kabuli_chr06	30166250	GG	AA	1946867603
SNP_P4_84112_30166255	NC_021165.1	Ca_kabuli_chr06	30166255	AA	GG	1946867605
SNP_P4_84113_30166256	NC_021165.1	Ca_kabuli_chr06	30166256	AA	GG	1946867607
SNP_P4_84114_30167298	NC_021165.1	Ca_kabuli_chr06	30167298	GG	AA	1946867609
SNP_P4_84115_30167307	NC_021165.1	Ca_kabuli_chr06	30167307	AA	GG	1946867611
SNP_P4_84116_30167312	NC_021165.1	Ca_kabuli_chr06	30167312	AA	GG	1946867613
SNP_P4_84117_30167315	NC_021165.1	Ca_kabuli_chr06	30167315	AA	CC	1946867615
SNP_P4_84118_30167328	NC_021165.1	Ca_kabuli_chr06	30167328	TT	CC	1946867617
SNP_P4_84119_30167346	NC_021165.1	Ca_kabuli_chr06	30167346	GG	AA	1946867619
SNP_P4_84120_30167557	NC_021165.1	Ca_kabuli_chr06	30167557	GG	AA	1946867620
SNP_P4_84121_30170198	NC_021165.1	Ca_kabuli_chr06	30170198	GG	AA	1946867622
SNP_P4_84122_30170546	NC_021165.1	Ca_kabuli_chr06	30170546	TT	CC	1946867624
SNP_P4_84123_30170557	NC_021165.1	Ca_kabuli_chr06	30170557	TT	CC	1946867626

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_84127_30203039	NC_021165.1	Ca_kabuli_chr06	30203039	CC	TT	1946867632
SNP_P4_84128_30253537	NC_021165.1	Ca_kabuli_chr06	30253537	GG	AA	1946867634
SNP_P4_84129_30258455	NC_021165.1	Ca_kabuli_chr06	30258455	TT	CC	1946867635
SNP_P4_84130_30264982	NC_021165.1	Ca_kabuli_chr06	30264982	AA	CC	1946867637
SNP_P4_84131_30265027	NC_021165.1	Ca_kabuli_chr06	30265027	CC	TT	1946867639
SNP_P4_84132_30265326	NC_021165.1	Ca_kabuli_chr06	30265326	AA	TT	1946867641
SNP_P4_84133_30267189	NC_021165.1	Ca_kabuli_chr06	30267189	GG	AA	1946867643
SNP_P4_84134_30310064	NC_021165.1	Ca_kabuli_chr06	30310064	TT	CC	1946867645
SNP_P4_84135_30310391	NC_021165.1	Ca_kabuli_chr06	30310391	GG	TT	1946867647
SNP_P4_84136_30339031	NC_021165.1	Ca_kabuli_chr06	30339031	GG	CC	1946867648
SNP_P4_84137_30344073	NC_021165.1	Ca_kabuli_chr06	30344073	AA	GG	1946867650
SNP_P4_84138_30357815	NC_021165.1	Ca_kabuli_chr06	30357815	AA	TT	1946867652
SNP_P4_84140_30365366	NC_021165.1	Ca_kabuli_chr06	30365366	GG	TT	1946867654
SNP_P4_84141_30383132	NC_021165.1	Ca_kabuli_chr06	30383132	CC	TT	1946867656
SNP_P4_84142_30383136	NC_021165.1	Ca_kabuli_chr06	30383136	CC	AA	1946867658
SNP_P4_84143_30383144	NC_021165.1	Ca_kabuli_chr06	30383144	GG	AA	1946867660
SNP_P4_84144_30383540	NC_021165.1	Ca_kabuli_chr06	30383540	CC	TT	1946867662
SNP_P4_84145_30399802	NC_021165.1	Ca_kabuli_chr06	30399802	CC	TT	1946867664
SNP_P4_84146_30401479	NC_021165.1	Ca_kabuli_chr06	30401479	AA	TT	1946867666
SNP_P4_84147_30415070	NC_021165.1	Ca_kabuli_chr06	30415070	GG	AA	1946867668
SNP_P4_84148_30419807	NC_021165.1	Ca_kabuli_chr06	30419807	AA	TT	1946867670
SNP_P4_84149_30429780	NC_021165.1	Ca_kabuli_chr06	30429780	CC	TT	1946867672
SNP_P4_84150_30442652	NC_021165.1	Ca_kabuli_chr06	30442652	AA	GG	1946867674
SNP_P4_84151_30454134	NC_021165.1	Ca_kabuli_chr06	30454134	TT	CC	1946867676
SNP_P4_84153_30463688	NC_021165.1	Ca_kabuli_chr06	30463688	TT	GG	1946867678
SNP_P4_84154_30480933	NC_021165.1	Ca_kabuli_chr06	30480933	TT	AA	1946867680
SNP_P4_84155_30499682	NC_021165.1	Ca_kabuli_chr06	30499682	CC	TT	1946867682
SNP_P4_84156_30499687	NC_021165.1	Ca_kabuli_chr06	30499687	AA	GG	1946867683
SNP_P4_84157_30501639	NC_021165.1	Ca_kabuli_chr06	30501639	CC	TT	1946867685
SNP_P4_84158_30516163	NC_021165.1	Ca_kabuli_chr06	30516163	GG	AA	1946867687
SNP_P4_84159_30525094	NC_021165.1	Ca_kabuli_chr06	30525094	TT	CC	1946867689
SNP_P4_84160_30525466	NC_021165.1	Ca_kabuli_chr06	30525466	AA	CC	1946867692
SNP_P4_84162_30584840	NC_021165.1	Ca_kabuli_chr06	30584840	GG	AA	1946867694
SNP_P4_84163_30584842	NC_021165.1	Ca_kabuli_chr06	30584842	CC	AA	1946867696
SNP_P4_84164_30587869	NC_021165.1	Ca_kabuli_chr06	30587869	AA	GG	1946867698
SNP_P4_84165_30587969	NC_021165.1	Ca_kabuli_chr06	30587969	AA	GG	1946867700
SNP_P4_84166_30588174	NC_021165.1	Ca_kabuli_chr06	30588174	AA	CC	1946867702
SNP_P4_84168_30588336	NC_021165.1	Ca_kabuli_chr06	30588336	GG	AA	1946867704
SNP_P4_84169_30588397	NC_021165.1	Ca_kabuli_chr06	30588397	TT	CC	1946867706
SNP_P4_84171_30618351	NC_021165.1	Ca_kabuli_chr06	30618351	TT	GG	1946867708

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_84174_30638647	NC_021165.1	Ca_kabuli_chr06	30638647	TT	CC	1946867712
SNP_P4_84176_30666020	NC_021165.1	Ca_kabuli_chr06	30666020	TT	CC	1946867714
SNP_P4_84177_30678651	NC_021165.1	Ca_kabuli_chr06	30678651	CC	AA	1946867716
SNP_P4_84178_30678678	NC_021165.1	Ca_kabuli_chr06	30678678	TT	AA	1946867718
SNP_P4_84179_30678707	NC_021165.1	Ca_kabuli_chr06	30678707	AA	GG	1946867720
SNP_P4_84180_30678729	NC_021165.1	Ca_kabuli_chr06	30678729	CC	TT	1946867722
SNP_P4_84181_30678756	NC_021165.1	Ca_kabuli_chr06	30678756	CC	TT	1946867724
SNP_P4_84182_30678875	NC_021165.1	Ca_kabuli_chr06	30678875	GG	CC	1946867726
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SNP_P4_84184_30678878	NC_021165.1	Ca_kabuli_chr06	30678878	TT	GG	1946867730
SNP_P4_84185_30678891	NC_021165.1	Ca_kabuli_chr06	30678891	TT	GG	1946867732
SNP_P4_84186_30678902	NC_021165.1	Ca_kabuli_chr06	30678902	AA	GG	1946867734
SNP_P4_84187_30678990	NC_021165.1	Ca_kabuli_chr06	30678990	AA	TT	1946867736
SNP_P4_84188_30679404	NC_021165.1	Ca_kabuli_chr06	30679404	CC	GG	1946867738
SNP_P4_84189_30679461	NC_021165.1	Ca_kabuli_chr06	30679461	CC	TT	1946867740
SNP_P4_84190_30682967	NC_021165.1	Ca_kabuli_chr06	30682967	TT	CC	1946867742
SNP_P4_84191_30683022	NC_021165.1	Ca_kabuli_chr06	30683022	TT	CC	1946867744
SNP_P4_84192_30683025	NC_021165.1	Ca_kabuli_chr06	30683025	AA	GG	1946867746
SNP_P4_84193_30691160	NC_021165.1	Ca_kabuli_chr06	30691160	TT	CC	1946867748
SNP_P4_84195_30701038	NC_021165.1	Ca_kabuli_chr06	30701038	TT	CC	1946867750
SNP_P4_84197_30725397	NC_021165.1	Ca_kabuli_chr06	30725397	TT	AA	1946867752
SNP_P4_84198_30736670	NC_021165.1	Ca_kabuli_chr06	30736670	CC	TT	1946867754
SNP_P4_84199_30752297	NC_021165.1	Ca_kabuli_chr06	30752297	AA	GG	1946867756
SNP_P4_84200_30752670	NC_021165.1	Ca_kabuli_chr06	30752670	AA	CC	1946867758
SNP_P4_84201_30752677	NC_021165.1	Ca_kabuli_chr06	30752677	AA	CC	1946867760
SNP_P4_84202_30752685	NC_021165.1	Ca_kabuli_chr06	30752685	AA	GG	1946867762
SNP_P4_84203_30752697	NC_021165.1	Ca_kabuli_chr06	30752697	AA	TT	1946867764
SNP_P4_84204_30752704	NC_021165.1	Ca_kabuli_chr06	30752704	AA	GG	1946867766
SNP_P4_84205_30752746	NC_021165.1	Ca_kabuli_chr06	30752746	GG	AA	1946867768
SNP_P4_84207_30845841	NC_021165.1	Ca_kabuli_chr06	30845841	CC	TT	1946867770
SNP_P4_84208_30845870	NC_021165.1	Ca_kabuli_chr06	30845870	AA	GG	1946867772
SNP_P4_84209_30845879	NC_021165.1	Ca_kabuli_chr06	30845879	TT	CC	1946867774
SNP_P4_84210_30845890	NC_021165.1	Ca_kabuli_chr06	30845890	CC	TT	1946867776
SNP_P4_84211_30845930	NC_021165.1	Ca_kabuli_chr06	30845930	CC	TT	1946867778
SNP_P4_84212_30856677	NC_021165.1	Ca_kabuli_chr06	30856677	CC	TT	1946867780
SNP_P4_84213_30859585	NC_021165.1	Ca_kabuli_chr06	30859585	GG	AA	1946867782
SNP_P4_84215_30881540	NC_021165.1	Ca_kabuli_chr06	30881540	TT	AA	1946867784
SNP_P4_84216_30908549	NC_021165.1	Ca_kabuli_chr06	30908549	AA	GG	1946867786
SNP_P4_84217_30988801	NC_021165.1	Ca_kabuli_chr06	30988801	TT	GG	1946867788
SNP_P4_84218_30988884	NC_021165.1	Ca_kabuli_chr06	30988884	CC	TT	1946867790
SNP_P4_84220_30988987	NC_021165.1	Ca_kabuli_chr06	30988987	GG	TT	1946867792

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_84222_31033780	NC_021165.1	Ca_kabuli_chr06	31033780	TT	CC	1946867796
SNP_P4_84223_31040248	NC_021165.1	Ca_kabuli_chr06	31040248	TT	AA	1946867798
SNP_P4_84224_31041342	NC_021165.1	Ca_kabuli_chr06	31041342	AA	GG	1946867800
SNP_P4_84226_31079372	NC_021165.1	Ca_kabuli_chr06	31079372	AA	TT	1946867802
SNP_P4_84227_31079377	NC_021165.1	Ca_kabuli_chr06	31079377	AA	CC	1946867804
SNP_P4_84229_31096871	NC_021165.1	Ca_kabuli_chr06	31096871	CC	AA	1946867806
SNP_P4_84230_31096873	NC_021165.1	Ca_kabuli_chr06	31096873	AA	GG	1946867808
SNP_P4_84231_31097002	NC_021165.1	Ca_kabuli_chr06	31097002	AA	TT	1946867810
SNP_P4_84232_31097018	NC_021165.1	Ca_kabuli_chr06	31097018	CC	TT	1946867812
SNP_P4_84233_31097043	NC_021165.1	Ca_kabuli_chr06	31097043	TT	CC	1946867814
SNP_P4_84235_31097088	NC_021165.1	Ca_kabuli_chr06	31097088	GG	TT	1946867815
SNP_P4_84237_31097195	NC_021165.1	Ca_kabuli_chr06	31097195	CC	GG	1946867817
SNP_P4_84239_31097321	NC_021165.1	Ca_kabuli_chr06	31097321	GG	AA	1946867819
SNP_P4_84240_31097404	NC_021165.1	Ca_kabuli_chr06	31097404	TT	AA	1946867821
SNP_P4_84241_31097425	NC_021165.1	Ca_kabuli_chr06	31097425	AA	GG	1946867823
SNP_P4_84242_31097492	NC_021165.1	Ca_kabuli_chr06	31097492	TT	CC	1946867825
SNP_P4_84243_31097583	NC_021165.1	Ca_kabuli_chr06	31097583	GG	CC	1946867827
SNP_P4_84244_31097606	NC_021165.1	Ca_kabuli_chr06	31097606	CC	TT	1946867829
SNP_P4_84245_31097617	NC_021165.1	Ca_kabuli_chr06	31097617	CC	TT	1946867831
SNP_P4_84246_31097625	NC_021165.1	Ca_kabuli_chr06	31097625	TT	GG	1946867833
SNP_P4_84247_31097626	NC_021165.1	Ca_kabuli_chr06	31097626	TT	CC	1946867835
SNP_P4_84248_31097688	NC_021165.1	Ca_kabuli_chr06	31097688	TT	GG	1946867837
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SNP_P4_84251_31099590	NC_021165.1	Ca_kabuli_chr06	31099590	TT	CC	1946867841
SNP_P4_84252_31099616	NC_021165.1	Ca_kabuli_chr06	31099616	AA	GG	1946867843
SNP_P4_84253_31099641	NC_021165.1	Ca_kabuli_chr06	31099641	TT	CC	1946867845
SNP_P4_84254_31121051	NC_021165.1	Ca_kabuli_chr06	31121051	CC	TT	1946867847
SNP_P4_84255_31121076	NC_021165.1	Ca_kabuli_chr06	31121076	TT	CC	1946867849
SNP_P4_84256_31121569	NC_021165.1	Ca_kabuli_chr06	31121569	GG	CC	1946867851
SNP_P4_84257_31121576	NC_021165.1	Ca_kabuli_chr06	31121576	GG	CC	1946867853
SNP_P4_84258_31121581	NC_021165.1	Ca_kabuli_chr06	31121581	AA	GG	1946867855
SNP_P4_84259_31121608	NC_021165.1	Ca_kabuli_chr06	31121608	TT	CC	1946867857
SNP_P4_84260_31122922	NC_021165.1	Ca_kabuli_chr06	31122922	TT	CC	1946867859
SNP_P4_84261_31123575	NC_021165.1	Ca_kabuli_chr06	31123575	TT	CC	1946867862
SNP_P4_84262_31123692	NC_021165.1	Ca_kabuli_chr06	31123692	AA	GG	1946867864
SNP_P4_84263_31131495	NC_021165.1	Ca_kabuli_chr06	31131495	GG	AA	1946867866
SNP_P4_84264_31132783	NC_021165.1	Ca_kabuli_chr06	31132783	AA	GG	1946867868
SNP_P4_84266_31153644	NC_021165.1	Ca_kabuli_chr06	31153644	TT	CC	1946867870
SNP_P4_84267_31153992	NC_021165.1	Ca_kabuli_chr06	31153992	AA	CC	1946867872
SNP_P4_84268_31155260	NC_021165.1	Ca_kabuli_chr06	31155260	AA	GG	1946867874
SNP_P4_84269_31155646	NC_021165.1	Ca_kabuli_chr06	31155646	AA	TT	1946867876

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_84271_31162958	NC_021165.1	Ca_kabuli_chr06	31162958	TT	CC	1946867880
SNP_P4_84272_31163057	NC_021165.1	Ca_kabuli_chr06	31163057	GG	TT	1946867882
SNP_P4_84273_31163060	NC_021165.1	Ca_kabuli_chr06	31163060	GG	AA	1946867884
SNP_P4_84274_31163108	NC_021165.1	Ca_kabuli_chr06	31163108	AA	GG	1946867886
SNP_P4_84275_31163127	NC_021165.1	Ca_kabuli_chr06	31163127	CC	TT	1946867888
SNP_P4_84276_31163143	NC_021165.1	Ca_kabuli_chr06	31163143	TT	CC	1946867890
SNP_P4_84277_31163144	NC_021165.1	Ca_kabuli_chr06	31163144	GG	AA	1946867892
SNP_P4_84278_31163158	NC_021165.1	Ca_kabuli_chr06	31163158	CC	AA	1946867894
SNP_P4_84279_31163855	NC_021165.1	Ca_kabuli_chr06	31163855	TT	GG	1946867896
SNP_P4_84280_31168306	NC_021165.1	Ca_kabuli_chr06	31168306	AA	GG	1946867898
SNP_P4_84281_31168649	NC_021165.1	Ca_kabuli_chr06	31168649	TT	GG	1946867900
SNP_P4_84282_31168674	NC_021165.1	Ca_kabuli_chr06	31168674	TT	CC	1946867902
SNP_P4_84283_31168731	NC_021165.1	Ca_kabuli_chr06	31168731	AA	GG	1946867904
SNP_P4_84284_31168835	NC_021165.1	Ca_kabuli_chr06	31168835	TT	CC	1946867907
SNP_P4_84285_31168838	NC_021165.1	Ca_kabuli_chr06	31168838	TT	AA	1946867909
SNP_P4_84286_31168875	NC_021165.1	Ca_kabuli_chr06	31168875	CC	AA	1946867911
SNP_P4_84287_31168902	NC_021165.1	Ca_kabuli_chr06	31168902	TT	AA	1946867913
SNP_P4_84288_31168904	NC_021165.1	Ca_kabuli_chr06	31168904	CC	TT	1946867915
SNP_P4_84289_31168932	NC_021165.1	Ca_kabuli_chr06	31168932	GG	AA	1946867917
SNP_P4_84290_31168976	NC_021165.1	Ca_kabuli_chr06	31168976	CC	TT	1946867920
SNP_P4_84291_31169006	NC_021165.1	Ca_kabuli_chr06	31169006	CC	AA	1946867922
SNP_P4_84292_31169044	NC_021165.1	Ca_kabuli_chr06	31169044	AA	CC	1946867925
SNP_P4_84293_31169057	NC_021165.1	Ca_kabuli_chr06	31169057	GG	AA	1946867927
SNP_P4_84294_31169088	NC_021165.1	Ca_kabuli_chr06	31169088	GG	AA	1946867929
SNP_P4_84295_31169102	NC_021165.1	Ca_kabuli_chr06	31169102	AA	GG	1946867931
SNP_P4_84296_31180115	NC_021165.1	Ca_kabuli_chr06	31180115	AA	TT	1946867933
SNP_P4_84297_31180129	NC_021165.1	Ca_kabuli_chr06	31180129	GG	TT	1946867935
SNP_P4_84298_31180133	NC_021165.1	Ca_kabuli_chr06	31180133	AA	GG	1946867937
SNP_P4_84299_31183764	NC_021165.1	Ca_kabuli_chr06	31183764	GG	AA	1946867939
SNP_P4_84300_31184208	NC_021165.1	Ca_kabuli_chr06	31184208	CC	GG	1946867941
SNP_P4_84301_31184218	NC_021165.1	Ca_kabuli_chr06	31184218	AA	GG	1946867943
SNP_P4_84302_31184278	NC_021165.1	Ca_kabuli_chr06	31184278	AA	GG	1946867945
SNP_P4_84303_31184298	NC_021165.1	Ca_kabuli_chr06	31184298	AA	CC	1946867947
SNP_P4_84304_31185419	NC_021165.1	Ca_kabuli_chr06	31185419	GG	TT	1946867949
SNP_P4_84305_31187319	NC_021165.1	Ca_kabuli_chr06	31187319	TT	CC	1946867951
SNP_P4_84306_31187320	NC_021165.1	Ca_kabuli_chr06	31187320	GG	AA	1946867953
SNP_P4_84307_31187332	NC_021165.1	Ca_kabuli_chr06	31187332	GG	AA	1946867955
SNP_P4_84308_31187337	NC_021165.1	Ca_kabuli_chr06	31187337	CC	TT	1946867957
SNP_P4_84309_31187362	NC_021165.1	Ca_kabuli_chr06	31187362	GG	TT	1946867959
SNP_P4_84310_31187367	NC_021165.1	Ca_kabuli_chr06	31187367	TT	AA	1946867961
SNP_P4_84311_31187391	NC_021165.1	Ca_kabuli_chr06	31187391	GG	AA	1946867963

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_84313_31187434	NC_021165.1	Ca_kabuli_chr06	31187434	AA	CC	1946867967
SNP_P4_84314_31187470	NC_021165.1	Ca_kabuli_chr06	31187470	CC	GG	1946867969
SNP_P4_84315_31187582	NC_021165.1	Ca_kabuli_chr06	31187582	AA	GG	1946867971
SNP_P4_84316_31187584	NC_021165.1	Ca_kabuli_chr06	31187584	AA	TT	1946867973
SNP_P4_84317_31188007	NC_021165.1	Ca_kabuli_chr06	31188007	GG	AA	1946867975
SNP_P4_84318_31195110	NC_021165.1	Ca_kabuli_chr06	31195110	TT	AA	1946867977
SNP_P4_84319_31195368	NC_021165.1	Ca_kabuli_chr06	31195368	GG	AA	1946867980
SNP_P4_84320_31195403	NC_021165.1	Ca_kabuli_chr06	31195403	CC	TT	1946867982
SNP_P4_84321_31195404	NC_021165.1	Ca_kabuli_chr06	31195404	CC	TT	1946867983
SNP_P4_84322_31211233	NC_021165.1	Ca_kabuli_chr06	31211233	CC	AA	1946867985
SNP_P4_84325_31273999	NC_021165.1	Ca_kabuli_chr06	31273999	TT	CC	1946867987
SNP_P4_84326_31274546	NC_021165.1	Ca_kabuli_chr06	31274546	CC	TT	1946867989
SNP_P4_84328_31292919	NC_021165.1	Ca_kabuli_chr06	31292919	TT	AA	1946867991
SNP_P4_84329_31297950	NC_021165.1	Ca_kabuli_chr06	31297950	AA	GG	1946867993
SNP_P4_84330_31297984	NC_021165.1	Ca_kabuli_chr06	31297984	TT	CC	1946867995
SNP_P4_84331_31298846	NC_021165.1	Ca_kabuli_chr06	31298846	TT	GG	1946867997
SNP_P4_84332_31303541	NC_021165.1	Ca_kabuli_chr06	31303541	TT	AA	1946867999
SNP_P4_84333_31303542	NC_021165.1	Ca_kabuli_chr06	31303542	GG	CC	1946868001
SNP_P4_84334_31331495	NC_021165.1	Ca_kabuli_chr06	31331495	TT	CC	1946868003
SNP_P4_84335_31331862	NC_021165.1	Ca_kabuli_chr06	31331862	AA	GG	1946868005
SNP_P4_84337_31337797	NC_021165.1	Ca_kabuli_chr06	31337797	CC	TT	1946868007
SNP_P4_84338_31344232	NC_021165.1	Ca_kabuli_chr06	31344232	GG	TT	1946868009
SNP_P4_84339_31370847	NC_021165.1	Ca_kabuli_chr06	31370847	TT	AA	1946868011
SNP_P4_84340_31371489	NC_021165.1	Ca_kabuli_chr06	31371489	AA	GG	1946868013
SNP_P4_84341_31371490	NC_021165.1	Ca_kabuli_chr06	31371490	GG	AA	1946868015
SNP_P4_84342_31371502	NC_021165.1	Ca_kabuli_chr06	31371502	GG	AA	1946868017
SNP_P4_84343_31371504	NC_021165.1	Ca_kabuli_chr06	31371504	AA	GG	1946868019
SNP_P4_84344_31371891	NC_021165.1	Ca_kabuli_chr06	31371891	CC	TT	1946868021
SNP_P4_84345_31372243	NC_021165.1	Ca_kabuli_chr06	31372243	TT	CC	1946868023
SNP_P4_84346_31372244	NC_021165.1	Ca_kabuli_chr06	31372244	AA	GG	1946868025
SNP_P4_84347_31372266	NC_021165.1	Ca_kabuli_chr06	31372266	TT	CC	1946868027
SNP_P4_84348_31372269	NC_021165.1	Ca_kabuli_chr06	31372269	AA	GG	1946868029
SNP_P4_84349_31372299	NC_021165.1	Ca_kabuli_chr06	31372299	AA	GG	1946868031
SNP_P4_84350_31372328	NC_021165.1	Ca_kabuli_chr06	31372328	AA	CC	1946868033
SNP_P4_84351_31372336	NC_021165.1	Ca_kabuli_chr06	31372336	TT	CC	1946868035
SNP_P4_84352_31372339	NC_021165.1	Ca_kabuli_chr06	31372339	CC	TT	1946868037
SNP_P4_84353_31372348	NC_021165.1	Ca_kabuli_chr06	31372348	AA	GG	1946868039
SNP_P4_84354_31372378	NC_021165.1	Ca_kabuli_chr06	31372378	CC	TT	1946868041
SNP_P4_84355_31380557	NC_021165.1	Ca_kabuli_chr06	31380557	CC	GG	1946868043
SNP_P4_84356_31390481	NC_021165.1	Ca_kabuli_chr06	31390481	GG	AA	1946868045
SNP_P4_84357_31407197	NC_021165.1	Ca_kabuli_chr06	31407197	TT	CC	1946868047

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_84359_31416456	NC_021165.1	Ca_kabuli_chr06	31416456	AA	TT	1946868051
SNP_P4_84362_31430512	NC_021165.1	Ca_kabuli_chr06	31430512	GG	AA	1946868053
SNP_P4_84363_31430929	NC_021165.1	Ca_kabuli_chr06	31430929	GG	CC	1946868055
SNP_P4_84364_31431154	NC_021165.1	Ca_kabuli_chr06	31431154	AA	GG	1946868057
SNP_P4_84365_31431564	NC_021165.1	Ca_kabuli_chr06	31431564	AA	GG	1946868059
SNP_P4_84366_31470381	NC_021165.1	Ca_kabuli_chr06	31470381	CC	AA	1946868061
SNP_P4_84368_31472224	NC_021165.1	Ca_kabuli_chr06	31472224	AA	CC	1946868063
SNP_P4_84369_31472270	NC_021165.1	Ca_kabuli_chr06	31472270	TT	CC	1946868065
SNP_P4_84370_31472543	NC_021165.1	Ca_kabuli_chr06	31472543	TT	CC	1946868067
SNP_P4_84371_31472568	NC_021165.1	Ca_kabuli_chr06	31472568	AA	CC	1946868069
SNP_P4_84372_31497539	NC_021165.1	Ca_kabuli_chr06	31497539	GG	CC	1946868071
SNP_P4_84373_31522358	NC_021165.1	Ca_kabuli_chr06	31522358	GG	AA	1946868073
SNP_P4_84374_31537032	NC_021165.1	Ca_kabuli_chr06	31537032	GG	AA	1946868075
SNP_P4_84375_31545602	NC_021165.1	Ca_kabuli_chr06	31545602	GG	AA	1946868077
SNP_P4_84376_31545621	NC_021165.1	Ca_kabuli_chr06	31545621	CC	AA	1946868080
SNP_P4_84378_31599654	NC_021165.1	Ca_kabuli_chr06	31599654	TT	CC	1946868082
SNP_P4_84379_31599691	NC_021165.1	Ca_kabuli_chr06	31599691	GG	TT	1946868084
SNP_P4_84381_31604783	NC_021165.1	Ca_kabuli_chr06	31604783	GG	AA	1946868086
SNP_P4_84382_31604832	NC_021165.1	Ca_kabuli_chr06	31604832	GG	AA	1946868087
SNP_P4_84383_31604842	NC_021165.1	Ca_kabuli_chr06	31604842	TT	AA	1946868089
SNP_P4_84384_31604851	NC_021165.1	Ca_kabuli_chr06	31604851	AA	GG	1946868091
SNP_P4_84385_31604889	NC_021165.1	Ca_kabuli_chr06	31604889	AA	GG	1946868094
SNP_P4_84387_31608175	NC_021165.1	Ca_kabuli_chr06	31608175	AA	TT	1946868096
SNP_P4_84388_31608176	NC_021165.1	Ca_kabuli_chr06	31608176	TT	CC	1946868098
SNP_P4_84389_31614920	NC_021165.1	Ca_kabuli_chr06	31614920	GG	AA	1946868100
SNP_P4_84391_31632407	NC_021165.1	Ca_kabuli_chr06	31632407	CC	TT	1946868102
SNP_P4_84392_31632989	NC_021165.1	Ca_kabuli_chr06	31632989	AA	TT	1946868104
SNP_P4_84393_31638696	NC_021165.1	Ca_kabuli_chr06	31638696	TT	GG	1946868107
SNP_P4_84394_31659595	NC_021165.1	Ca_kabuli_chr06	31659595	AA	GG	1946868109
SNP_P4_84396_31707464	NC_021165.1	Ca_kabuli_chr06	31707464	TT	AA	1946868111
SNP_P4_84397_31710390	NC_021165.1	Ca_kabuli_chr06	31710390	TT	GG	1946868113
SNP_P4_84398_31712105	NC_021165.1	Ca_kabuli_chr06	31712105	GG	TT	1946868115
SNP_P4_84399_31717672	NC_021165.1	Ca_kabuli_chr06	31717672	AA	GG	1946868117
SNP_P4_84402_31741841	NC_021165.1	Ca_kabuli_chr06	31741841	CC	TT	1946868119
SNP_P4_84403_31741849	NC_021165.1	Ca_kabuli_chr06	31741849	TT	GG	1946868121
SNP_P4_84404_31741899	NC_021165.1	Ca_kabuli_chr06	31741899	AA	GG	1946868123
SNP_P4_84405_31742235	NC_021165.1	Ca_kabuli_chr06	31742235	TT	CC	1946868125
SNP_P4_84406_31742237	NC_021165.1	Ca_kabuli_chr06	31742237	TT	GG	1946868127
SNP_P4_84407_31744925	NC_021165.1	Ca_kabuli_chr06	31744925	CC	AA	1946868129
SNP_P4_84408_31744964	NC_021165.1	Ca_kabuli_chr06	31744964	CC	TT	1946868131
SNP_P4_84409_31747136	NC_021165.1	Ca_kabuli_chr06	31747136	AA	GG	1946868133

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_84411_31753804	NC_021165.1	Ca_kabuli_chr06	31753804	TT	CC	1946868138
SNP_P4_84412_31753834	NC_021165.1	Ca_kabuli_chr06	31753834	TT	CC	1946868140
SNP_P4_84413_31753836	NC_021165.1	Ca_kabuli_chr06	31753836	GG	AA	1946868142
SNP_P4_84414_31753853	NC_021165.1	Ca_kabuli_chr06	31753853	GG	TT	1946868144
SNP_P4_84415_31753875	NC_021165.1	Ca_kabuli_chr06	31753875	TT	GG	1946868146
SNP_P4_84416_31753881	NC_021165.1	Ca_kabuli_chr06	31753881	AA	GG	1946868148
SNP_P4_84417_31754248	NC_021165.1	Ca_kabuli_chr06	31754248	AA	GG	1946868150
SNP_P4_84418_31769439	NC_021165.1	Ca_kabuli_chr06	31769439	GG	TT	1946868152
SNP_P4_84420_31770305	NC_021165.1	Ca_kabuli_chr06	31770305	CC	AA	1946868154
SNP_P4_84421_31770331	NC_021165.1	Ca_kabuli_chr06	31770331	GG	AA	1946868156
SNP_P4_84422_31784530	NC_021165.1	Ca_kabuli_chr06	31784530	CC	AA	1946868158
SNP_P4_84423_31789871	NC_021165.1	Ca_kabuli_chr06	31789871	AA	GG	1946868160
SNP_P4_84424_31793106	NC_021165.1	Ca_kabuli_chr06	31793106	AA	CC	1946868162
SNP_P4_84425_31830196	NC_021165.1	Ca_kabuli_chr06	31830196	CC	TT	1946868164
SNP_P4_84426_31835514	NC_021165.1	Ca_kabuli_chr06	31835514	TT	CC	1946868167
SNP_P4_84427_31859421	NC_021165.1	Ca_kabuli_chr06	31859421	GG	TT	1946868169
SNP_P4_84428_31867770	NC_021165.1	Ca_kabuli_chr06	31867770	GG	AA	1946868171
SNP_P4_84429_31922008	NC_021165.1	Ca_kabuli_chr06	31922008	CC	TT	1946868173
SNP_P4_84430_31939442	NC_021165.1	Ca_kabuli_chr06	31939442	CC	AA	1946868175
SNP_P4_84431_31939447	NC_021165.1	Ca_kabuli_chr06	31939447	CC	TT	1946868177
SNP_P4_84432_31939456	NC_021165.1	Ca_kabuli_chr06	31939456	TT	CC	1946868179
SNP_P4_84433_31939465	NC_021165.1	Ca_kabuli_chr06	31939465	GG	AA	1946868181
SNP_P4_84434_31939480	NC_021165.1	Ca_kabuli_chr06	31939480	AA	GG	1946868183
SNP_P4_84435_31939496	NC_021165.1	Ca_kabuli_chr06	31939496	TT	CC	1946868185
SNP_P4_84436_31939498	NC_021165.1	Ca_kabuli_chr06	31939498	GG	AA	1946868187
SNP_P4_84437_31939513	NC_021165.1	Ca_kabuli_chr06	31939513	GG	AA	1946868190
SNP_P4_84438_31939549	NC_021165.1	Ca_kabuli_chr06	31939549	CC	TT	1946868192
SNP_P4_84439_31939555	NC_021165.1	Ca_kabuli_chr06	31939555	CC	TT	1946868194
SNP_P4_84440_31939574	NC_021165.1	Ca_kabuli_chr06	31939574	AA	GG	1946868196
SNP_P4_84441_31939594	NC_021165.1	Ca_kabuli_chr06	31939594	GG	AA	1946868198
SNP_P4_84442_31939599	NC_021165.1	Ca_kabuli_chr06	31939599	CC	AA	1946868200
SNP_P4_84443_31939626	NC_021165.1	Ca_kabuli_chr06	31939626	AA	GG	1946868202
SNP_P4_84445_31939701	NC_021165.1	Ca_kabuli_chr06	31939701	CC	TT	1946868204
SNP_P4_84446_31939816	NC_021165.1	Ca_kabuli_chr06	31939816	AA	GG	1946868206
SNP_P4_84447_31939920	NC_021165.1	Ca_kabuli_chr06	31939920	AA	GG	1946868208
SNP_P4_84448_31939935	NC_021165.1	Ca_kabuli_chr06	31939935	TT	CC	1946868210
SNP_P4_84449_31944210	NC_021165.1	Ca_kabuli_chr06	31944210	CC	TT	1946868212
SNP_P4_84451_31947271	NC_021165.1	Ca_kabuli_chr06	31947271	TT	CC	1946868214
SNP_P4_84452_31947358	NC_021165.1	Ca_kabuli_chr06	31947358	TT	AA	1946868216
SNP_P4_84453_31947423	NC_021165.1	Ca_kabuli_chr06	31947423	CC	TT	1946868218
SNP_P4_84454_31947449	NC_021165.1	Ca_kabuli_chr06	31947449	TT	CC	1946868220

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_84456_31947452	NC_021165.1	Ca_kabuli_chr06	31947452	TT	CC	1946868224
SNP_P4_84457_31947460	NC_021165.1	Ca_kabuli_chr06	31947460	AA	GG	1946868226
SNP_P4_84458_31947617	NC_021165.1	Ca_kabuli_chr06	31947617	TT	CC	1946868228
SNP_P4_84459_31950394	NC_021165.1	Ca_kabuli_chr06	31950394	CC	TT	1946868230
SNP_P4_84460_31960753	NC_021165.1	Ca_kabuli_chr06	31960753	AA	CC	1946868232
SNP_P4_84461_31960960	NC_021165.1	Ca_kabuli_chr06	31960960	TT	AA	1946868234
SNP_P4_84462_31989023	NC_021165.1	Ca_kabuli_chr06	31989023	TT	GG	1946868236
SNP_P4_84463_31995938	NC_021165.1	Ca_kabuli_chr06	31995938	CC	TT	1946868238
SNP_P4_84464_31998612	NC_021165.1	Ca_kabuli_chr06	31998612	TT	CC	1946868240
SNP_P4_84465_31998620	NC_021165.1	Ca_kabuli_chr06	31998620	AA	TT	1946868242
SNP_P4_84466_31998628	NC_021165.1	Ca_kabuli_chr06	31998628	AA	TT	1946868244
SNP_P4_84467_32007774	NC_021165.1	Ca_kabuli_chr06	32007774	AA	TT	1946868246
SNP_P4_84468_32015994	NC_021165.1	Ca_kabuli_chr06	32015994	CC	TT	1946868248
SNP_P4_84469_32059247	NC_021165.1	Ca_kabuli_chr06	32059247	AA	TT	1946868250
SNP_P4_84470_32059443	NC_021165.1	Ca_kabuli_chr06	32059443	CC	AA	1946868252
SNP_P4_84471_32059447	NC_021165.1	Ca_kabuli_chr06	32059447	AA	CC	1946868254
SNP_P4_84472_32059540	NC_021165.1	Ca_kabuli_chr06	32059540	GG	AA	1946868256
SNP_P4_84473_32059572	NC_021165.1	Ca_kabuli_chr06	32059572	AA	TT	1946868258
SNP_P4_84474_32059601	NC_021165.1	Ca_kabuli_chr06	32059601	TT	GG	1946868260
SNP_P4_84475_32059642	NC_021165.1	Ca_kabuli_chr06	32059642	AA	GG	1946868262
SNP_P4_84476_32059690	NC_021165.1	Ca_kabuli_chr06	32059690	CC	AA	1946868264
SNP_P4_84477_32093795	NC_021165.1	Ca_kabuli_chr06	32093795	TT	AA	1946868266
SNP_P4_84478_32096107	NC_021165.1	Ca_kabuli_chr06	32096107	CC	TT	1946868268
SNP_P4_84479_32105944	NC_021165.1	Ca_kabuli_chr06	32105944	AA	GG	1946868270
SNP_P4_84480_32124053	NC_021165.1	Ca_kabuli_chr06	32124053	GG	AA	1946868272
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SNP_P4_84482_32124150	NC_021165.1	Ca_kabuli_chr06	32124150	CC	TT	1946868276
SNP_P4_84483_32124153	NC_021165.1	Ca_kabuli_chr06	32124153	GG	TT	1946868278
SNP_P4_84485_32124415	NC_021165.1	Ca_kabuli_chr06	32124415	GG	CC	1946868280
SNP_P4_84486_32124481	NC_021165.1	Ca_kabuli_chr06	32124481	AA	GG	1946868282
SNP_P4_84487_32149498	NC_021165.1	Ca_kabuli_chr06	32149498	TT	AA	1946868284
SNP_P4_84489_32182037	NC_021165.1	Ca_kabuli_chr06	32182037	AA	GG	1946868286
SNP_P4_84490_32187315	NC_021165.1	Ca_kabuli_chr06	32187315	GG	TT	1946868288
SNP_P4_84491_32194212	NC_021165.1	Ca_kabuli_chr06	32194212	AA	GG	1946868290
SNP_P4_84492_32194224	NC_021165.1	Ca_kabuli_chr06	32194224	AA	GG	1946868292
SNP_P4_84494_32194631	NC_021165.1	Ca_kabuli_chr06	32194631	AA	GG	1946868294
SNP_P4_84495_32194640	NC_021165.1	Ca_kabuli_chr06	32194640	TT	CC	1946868296
SNP_P4_84496_32194655	NC_021165.1	Ca_kabuli_chr06	32194655	TT	AA	1946868298
SNP_P4_84497_32194675	NC_021165.1	Ca_kabuli_chr06	32194675	TT	CC	1946868300
SNP_P4_84498_32194692	NC_021165.1	Ca_kabuli_chr06	32194692	AA	GG	1946868302
SNP_P4_84499_32194705	NC_021165.1	Ca_kabuli_chr06	32194705	AA	TT	1946868304

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_84501_32194740	NC_021165.1	Ca_kabuli_chr06	32194740	AA	GG	1946868308
SNP_P4_84502_32194749	NC_021165.1	Ca_kabuli_chr06	32194749	GG	AA	1946868310
SNP_P4_84503_32194778	NC_021165.1	Ca_kabuli_chr06	32194778	AA	GG	1946868312
SNP_P4_84504_32195192	NC_021165.1	Ca_kabuli_chr06	32195192	TT	CC	1946868314
SNP_P4_84505_32195222	NC_021165.1	Ca_kabuli_chr06	32195222	TT	CC	1946868316
SNP_P4_84506_32197583	NC_021165.1	Ca_kabuli_chr06	32197583	CC	TT	1946868318
SNP_P4_84507_32216917	NC_021165.1	Ca_kabuli_chr06	32216917	CC	AA	1946868320
SNP_P4_84508_32217010	NC_021165.1	Ca_kabuli_chr06	32217010	TT	CC	1946868323
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SNP_P4_84510_32217417	NC_021165.1	Ca_kabuli_chr06	32217417	TT	CC	1946868327
SNP_P4_84511_32217418	NC_021165.1	Ca_kabuli_chr06	32217418	GG	AA	1946868329
SNP_P4_84512_32217622	NC_021165.1	Ca_kabuli_chr06	32217622	TT	CC	1946868331
SNP_P4_84513_32227469	NC_021165.1	Ca_kabuli_chr06	32227469	CC	TT	1946868333
SNP_P4_84514_32232983	NC_021165.1	Ca_kabuli_chr06	32232983	TT	CC	1946868335
SNP_P4_84515_32257436	NC_021165.1	Ca_kabuli_chr06	32257436	CC	GG	1946868337
SNP_P4_84516_32261524	NC_021165.1	Ca_kabuli_chr06	32261524	AA	TT	1946868339
SNP_P4_84518_32298953	NC_021165.1	Ca_kabuli_chr06	32298953	TT	CC	1946868341
SNP_P4_84521_32320443	NC_021165.1	Ca_kabuli_chr06	32320443	CC	AA	1946868343
SNP_P4_84522_32327577	NC_021165.1	Ca_kabuli_chr06	32327577	AA	GG	1946868345
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SNP_P4_84526_32371234	NC_021165.1	Ca_kabuli_chr06	32371234	TT	CC	1946868350
SNP_P4_84527_32371453	NC_021165.1	Ca_kabuli_chr06	32371453	AA	TT	1946868352
SNP_P4_84528_32371595	NC_021165.1	Ca_kabuli_chr06	32371595	AA	CC	1946868354
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SNP_P4_84532_32372821	NC_021165.1	Ca_kabuli_chr06	32372821	GG	AA	1946868362
SNP_P4_84534_32372844	NC_021165.1	Ca_kabuli_chr06	32372844	AA	GG	1946868364
SNP_P4_84535_32372970	NC_021165.1	Ca_kabuli_chr06	32372970	GG	AA	1946868366
SNP_P4_84537_32373087	NC_021165.1	Ca_kabuli_chr06	32373087	GG	TT	1946868369
SNP_P4_84538_32373095	NC_021165.1	Ca_kabuli_chr06	32373095	GG	CC	1946868371
SNP_P4_84539_32373112	NC_021165.1	Ca_kabuli_chr06	32373112	TT	CC	1946868373
SNP_P4_84540_32373182	NC_021165.1	Ca_kabuli_chr06	32373182	GG	TT	1946868375
SNP_P4_84541_32373281	NC_021165.1	Ca_kabuli_chr06	32373281	CC	TT	1946868377
SNP_P4_84542_32373285	NC_021165.1	Ca_kabuli_chr06	32373285	TT	CC	1946868379
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SNP_P4_84545_32373413	NC_021165.1	Ca_kabuli_chr06	32373413	CC	TT	1946868385
SNP_P4_84546_32373427	NC_021165.1	Ca_kabuli_chr06	32373427	GG	AA	1946868387
SNP_P4_84547_32373447	NC_021165.1	Ca_kabuli_chr06	32373447	CC	TT	1946868389
SNP_P4_84549_32373652	NC_021165.1	Ca_kabuli_chr06	32373652	AA	TT	1946868391

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_84552_32379638	NC_021165.1	Ca_kabuli_chr06	32379638	TT	CC	1946868397
SNP_P4_84553_32391487	NC_021165.1	Ca_kabuli_chr06	32391487	GG	CC	1946868400
SNP_P4_84554_32391495	NC_021165.1	Ca_kabuli_chr06	32391495	GG	AA	1946868402
SNP_P4_84555_32391751	NC_021165.1	Ca_kabuli_chr06	32391751	AA	CC	1946868403
SNP_P4_84557_32391875	NC_021165.1	Ca_kabuli_chr06	32391875	AA	TT	1946868405
SNP_P4_84558_32391942	NC_021165.1	Ca_kabuli_chr06	32391942	TT	CC	1946868407
SNP_P4_84559_32392125	NC_021165.1	Ca_kabuli_chr06	32392125	AA	TT	1946868409
SNP_P4_84560_32392127	NC_021165.1	Ca_kabuli_chr06	32392127	AA	GG	1946868411
SNP_P4_84561_32392161	NC_021165.1	Ca_kabuli_chr06	32392161	TT	GG	1946868413
SNP_P4_84562_32392685	NC_021165.1	Ca_kabuli_chr06	32392685	TT	CC	1946868415
SNP_P4_84563_32393787	NC_021165.1	Ca_kabuli_chr06	32393787	GG	CC	1946868417
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SNP_P4_84565_32407021	NC_021165.1	Ca_kabuli_chr06	32407021	CC	TT	1946868421
SNP_P4_84566_32407046	NC_021165.1	Ca_kabuli_chr06	32407046	AA	GG	1946868423
SNP_P4_84567_32450150	NC_021165.1	Ca_kabuli_chr06	32450150	TT	CC	1946868425
SNP_P4_84568_32466570	NC_021165.1	Ca_kabuli_chr06	32466570	CC	TT	1946868427
SNP_P4_84569_32476151	NC_021165.1	Ca_kabuli_chr06	32476151	AA	TT	1946868429
SNP_P4_84571_32481477	NC_021165.1	Ca_kabuli_chr06	32481477	AA	GG	1946868431
SNP_P4_84572_32500905	NC_021165.1	Ca_kabuli_chr06	32500905	TT	CC	1946868433
SNP_P4_84573_32501686	NC_021165.1	Ca_kabuli_chr06	32501686	AA	GG	1946868435
SNP_P4_84574_32508525	NC_021165.1	Ca_kabuli_chr06	32508525	CC	TT	1946868437
SNP_P4_84575_32508527	NC_021165.1	Ca_kabuli_chr06	32508527	CC	TT	1946868439
SNP_P4_84576_32508606	NC_021165.1	Ca_kabuli_chr06	32508606	GG	AA	1946868441
SNP_P4_84577_32508630	NC_021165.1	Ca_kabuli_chr06	32508630	GG	AA	1946868443
SNP_P4_84578_32508719	NC_021165.1	Ca_kabuli_chr06	32508719	CC	TT	1946868445
SNP_P4_84579_32508734	NC_021165.1	Ca_kabuli_chr06	32508734	TT	GG	1946868447
SNP_P4_84580_32508840	NC_021165.1	Ca_kabuli_chr06	32508840	GG	AA	1946868449
SNP_P4_84581_32508857	NC_021165.1	Ca_kabuli_chr06	32508857	CC	TT	1946868451
SNP_P4_84582_32508861	NC_021165.1	Ca_kabuli_chr06	32508861	AA	CC	1946868453
SNP_P4_84583_32512369	NC_021165.1	Ca_kabuli_chr06	32512369	CC	AA	1946868455
SNP_P4_84584_32512401	NC_021165.1	Ca_kabuli_chr06	32512401	TT	AA	1946868457
SNP_P4_84585_32512418	NC_021165.1	Ca_kabuli_chr06	32512418	GG	AA	1946868459
SNP_P4_84586_32512435	NC_021165.1	Ca_kabuli_chr06	32512435	CC	AA	1946868461
SNP_P4_84587_32512707	NC_021165.1	Ca_kabuli_chr06	32512707	GG	AA	1946868463
SNP_P4_84588_32512735	NC_021165.1	Ca_kabuli_chr06	32512735	AA	GG	1946868465
SNP_P4_84589_32513609	NC_021165.1	Ca_kabuli_chr06	32513609	GG	AA	1946868467
SNP_P4_84590_32513671	NC_021165.1	Ca_kabuli_chr06	32513671	GG	AA	1946868469
SNP_P4_84591_32513673	NC_021165.1	Ca_kabuli_chr06	32513673	GG	AA	1946868471
SNP_P4_84592_32513852	NC_021165.1	Ca_kabuli_chr06	32513852	CC	TT	1946868473
SNP_P4_84593_32513943	NC_021165.1	Ca_kabuli_chr06	32513943	AA	CC	1946868476

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_84594_32514087	NC_021165.1	Ca_kabuli_chr06	32514087	AA	GG	1946868478
SNP_P4_84595_32519566	NC_021165.1	Ca_kabuli_chr06	32519566	GG	AA	1946868480
SNP_P4_84596_32519573	NC_021165.1	Ca_kabuli_chr06	32519573	CC	GG	1946868482
SNP_P4_84598_32519699	NC_021165.1	Ca_kabuli_chr06	32519699	GG	AA	1946868484
SNP_P4_84599_32519847	NC_021165.1	Ca_kabuli_chr06	32519847	GG	AA	1946868486
SNP_P4_84600_32520026	NC_021165.1	Ca_kabuli_chr06	32520026	GG	CC	1946868488
SNP_P4_84601_32520066	NC_021165.1	Ca_kabuli_chr06	32520066	TT	CC	1946868490
SNP_P4_84602_32520244	NC_021165.1	Ca_kabuli_chr06	32520244	GG	AA	1946868492
SNP_P4_84603_32520392	NC_021165.1	Ca_kabuli_chr06	32520392	TT	CC	1946868494
SNP_P4_84604_32520460	NC_021165.1	Ca_kabuli_chr06	32520460	TT	AA	1946868496
SNP_P4_84605_32520495	NC_021165.1	Ca_kabuli_chr06	32520495	AA	CC	1946868498
SNP_P4_84606_32520504	NC_021165.1	Ca_kabuli_chr06	32520504	GG	AA	1946868500
SNP_P4_84607_32520612	NC_021165.1	Ca_kabuli_chr06	32520612	CC	GG	1946868502
SNP_P4_84608_32520661	NC_021165.1	Ca_kabuli_chr06	32520661	AA	TT	1946868504
SNP_P4_84609_32520778	NC_021165.1	Ca_kabuli_chr06	32520778	CC	TT	1946868506
SNP_P4_84610_32521173	NC_021165.1	Ca_kabuli_chr06	32521173	CC	TT	1946868508
SNP_P4_84612_32521631	NC_021165.1	Ca_kabuli_chr06	32521631	TT	AA	1946868510
SNP_P4_84613_32521698	NC_021165.1	Ca_kabuli_chr06	32521698	CC	AA	1946868512
SNP_P4_84614_32521765	NC_021165.1	Ca_kabuli_chr06	32521765	GG	AA	1946868514
SNP_P4_84615_32521804	NC_021165.1	Ca_kabuli_chr06	32521804	GG	AA	1946868516
SNP_P4_84616_32522005	NC_021165.1	Ca_kabuli_chr06	32522005	TT	CC	1946868518
SNP_P4_84618_32522392	NC_021165.1	Ca_kabuli_chr06	32522392	CC	TT	1946868520
SNP_P4_84619_32539335	NC_021165.1	Ca_kabuli_chr06	32539335	TT	AA	1946868522
SNP_P4_84620_32539688	NC_021165.1	Ca_kabuli_chr06	32539688	AA	TT	1946868524
SNP_P4_84621_32539690	NC_021165.1	Ca_kabuli_chr06	32539690	TT	AA	1946868526
SNP_P4_84623_32539917	NC_021165.1	Ca_kabuli_chr06	32539917	AA	GG	1946868528
SNP_P4_84624_32539977	NC_021165.1	Ca_kabuli_chr06	32539977	AA	TT	1946868530
SNP_P4_84625_32540048	NC_021165.1	Ca_kabuli_chr06	32540048	TT	GG	1946868532
SNP_P4_84626_32540055	NC_021165.1	Ca_kabuli_chr06	32540055	GG	TT	1946868534
SNP_P4_84627_32540109	NC_021165.1	Ca_kabuli_chr06	32540109	GG	AA	1946868536
SNP_P4_84628_32540112	NC_021165.1	Ca_kabuli_chr06	32540112	TT	AA	1946868538
SNP_P4_84631_32540298	NC_021165.1	Ca_kabuli_chr06	32540298	AA	GG	1946868540
SNP_P4_84632_32540301	NC_021165.1	Ca_kabuli_chr06	32540301	TT	CC	1946868542
SNP_P4_84633_32540313	NC_021165.1	Ca_kabuli_chr06	32540313	TT	CC	1946868544
SNP_P4_84634_32540339	NC_021165.1	Ca_kabuli_chr06	32540339	GG	CC	1946868546
SNP_P4_84635_32540372	NC_021165.1	Ca_kabuli_chr06	32540372	CC	TT	1946868548
SNP_P4_84637_32540525	NC_021165.1	Ca_kabuli_chr06	32540525	AA	TT	1946868550
SNP_P4_84639_32540634	NC_021165.1	Ca_kabuli_chr06	32540634	GG	CC	1946868552
SNP_P4_84640_32540642	NC_021165.1	Ca_kabuli_chr06	32540642	TT	CC	1946868554
SNP_P4_84641_32540649	NC_021165.1	Ca_kabuli_chr06	32540649	TT	CC	1946868556
SNP_P4_84642_32540732	NC_021165.1	Ca_kabuli_chr06	32540732	GG	AA	1946868558
SNP_P4_84643_32540733	NC_021165.1	Ca_kabuli_chr06	32540733	TT	CC	1946868560

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_84645_32552512	NC_021165.1	Ca_kabuli_chr06	32552512	AA	TT	1946868564
SNP_P4_84646_32552896	NC_021165.1	Ca_kabuli_chr06	32552896	GG	AA	1946868566
SNP_P4_84647_32553086	NC_021165.1	Ca_kabuli_chr06	32553086	GG	AA	1946868568
SNP_P4_84648_32553275	NC_021165.1	Ca_kabuli_chr06	32553275	GG	AA	1946868570
SNP_P4_84649_32553400	NC_021165.1	Ca_kabuli_chr06	32553400	TT	CC	1946868572
SNP_P4_84650_32553493	NC_021165.1	Ca_kabuli_chr06	32553493	AA	CC	1946868574
SNP_P4_84651_32556437	NC_021165.1	Ca_kabuli_chr06	32556437	CC	TT	1946868576
SNP_P4_84652_32556532	NC_021165.1	Ca_kabuli_chr06	32556532	TT	GG	1946868578
SNP_P4_84653_32556544	NC_021165.1	Ca_kabuli_chr06	32556544	CC	TT	1946868580
SNP_P4_84654_32571745	NC_021165.1	Ca_kabuli_chr06	32571745	TT	AA	1946868582
SNP_P4_84655_32571751	NC_021165.1	Ca_kabuli_chr06	32571751	GG	AA	1946868584
SNP_P4_84656_32572028	NC_021165.1	Ca_kabuli_chr06	32572028	AA	TT	1946868586
SNP_P4_84657_32572645	NC_021165.1	Ca_kabuli_chr06	32572645	AA	GG	1946868588
SNP_P4_84658_32576086	NC_021165.1	Ca_kabuli_chr06	32576086	AA	TT	1946868590
SNP_P4_84659_32609165	NC_021165.1	Ca_kabuli_chr06	32609165	TT	CC	1946868592
SNP_P4_84660_32609283	NC_021165.1	Ca_kabuli_chr06	32609283	AA	TT	1946868594
SNP_P4_84661_32609299	NC_021165.1	Ca_kabuli_chr06	32609299	GG	AA	1946868596
SNP_P4_84662_32609339	NC_021165.1	Ca_kabuli_chr06	32609339	AA	GG	1946868598
SNP_P4_84663_32609448	NC_021165.1	Ca_kabuli_chr06	32609448	TT	CC	1946868600
SNP_P4_84664_32609589	NC_021165.1	Ca_kabuli_chr06	32609589	CC	GG	1946868602
SNP_P4_84665_32609649	NC_021165.1	Ca_kabuli_chr06	32609649	GG	CC	1946868604
SNP_P4_84666_32609665	NC_021165.1	Ca_kabuli_chr06	32609665	AA	GG	1946868606
SNP_P4_84667_32609670	NC_021165.1	Ca_kabuli_chr06	32609670	GG	AA	1946868608
SNP_P4_84668_32609734	NC_021165.1	Ca_kabuli_chr06	32609734	AA	CC	1946868610
SNP_P4_84669_32609747	NC_021165.1	Ca_kabuli_chr06	32609747	GG	AA	1946868612
SNP_P4_84670_32609753	NC_021165.1	Ca_kabuli_chr06	32609753	AA	GG	1946868613
SNP_P4_84671_32611021	NC_021165.1	Ca_kabuli_chr06	32611021	CC	AA	1946868615
SNP_P4_84672_32611024	NC_021165.1	Ca_kabuli_chr06	32611024	AA	GG	1946868617
SNP_P4_84673_32615361	NC_021165.1	Ca_kabuli_chr06	32615361	GG	AA	1946868619
SNP_P4_84674_32615390	NC_021165.1	Ca_kabuli_chr06	32615390	AA	TT	1946868621
SNP_P4_84675_32615408	NC_021165.1	Ca_kabuli_chr06	32615408	TT	CC	1946868623
SNP_P4_84676_32615486	NC_021165.1	Ca_kabuli_chr06	32615486	TT	CC	1946868625
SNP_P4_84677_32615513	NC_021165.1	Ca_kabuli_chr06	32615513	AA	GG	1946868627
SNP_P4_84678_32615711	NC_021165.1	Ca_kabuli_chr06	32615711	AA	TT	1946868629
SNP_P4_84679_32615730	NC_021165.1	Ca_kabuli_chr06	32615730	TT	CC	1946868631
SNP_P4_84680_32615734	NC_021165.1	Ca_kabuli_chr06	32615734	CC	TT	1946868633
SNP_P4_84681_32615786	NC_021165.1	Ca_kabuli_chr06	32615786	AA	GG	1946868635
SNP_P4_84683_32623050	NC_021165.1	Ca_kabuli_chr06	32623050	AA	GG	1946868637
SNP_P4_84686_32630168	NC_021165.1	Ca_kabuli_chr06	32630168	CC	TT	1946868639
SNP_P4_84687_32630177	NC_021165.1	Ca_kabuli_chr06	32630177	TT	CC	1946868641
SNP_P4_84688_32630194	NC_021165.1	Ca_kabuli_chr06	32630194	CC	TT	1946868643

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_84690_32630367	NC_021165.1	Ca_kabuli_chr06	32630367	TT	CC	1946868647
SNP_P4_84692_32630610	NC_021165.1	Ca_kabuli_chr06	32630610	CC	GG	1946868649
SNP_P4_84693_32635417	NC_021165.1	Ca_kabuli_chr06	32635417	GG	AA	1946868651
SNP_P4_84694_32635783	NC_021165.1	Ca_kabuli_chr06	32635783	CC	TT	1946868653
SNP_P4_84695_32637964	NC_021165.1	Ca_kabuli_chr06	32637964	TT	CC	1946868655
SNP_P4_84696_32658706	NC_021165.1	Ca_kabuli_chr06	32658706	TT	CC	1946868657
SNP_P4_84697_32670765	NC_021165.1	Ca_kabuli_chr06	32670765	CC	TT	1946868659
SNP_P4_84698_32688879	NC_021165.1	Ca_kabuli_chr06	32688879	AA	CC	1946868661
SNP_P4_84699_32688886	NC_021165.1	Ca_kabuli_chr06	32688886	CC	TT	1946868663
SNP_P4_84700_32689421	NC_021165.1	Ca_kabuli_chr06	32689421	CC	TT	1946868665
SNP_P4_84701_32689433	NC_021165.1	Ca_kabuli_chr06	32689433	CC	AA	1946868667
SNP_P4_84702_32689465	NC_021165.1	Ca_kabuli_chr06	32689465	TT	CC	1946868669
SNP_P4_84703_32689477	NC_021165.1	Ca_kabuli_chr06	32689477	AA	GG	1946868671
SNP_P4_84704_32690942	NC_021165.1	Ca_kabuli_chr06	32690942	AA	CC	1946868673
SNP_P4_84705_32690943	NC_021165.1	Ca_kabuli_chr06	32690943	CC	TT	1946868675
SNP_P4_84706_32698713	NC_021165.1	Ca_kabuli_chr06	32698713	GG	TT	1946868677
SNP_P4_84707_32730277	NC_021165.1	Ca_kabuli_chr06	32730277	GG	AA	1946868679
SNP_P4_84708_32737046	NC_021165.1	Ca_kabuli_chr06	32737046	AA	TT	1946868681
SNP_P4_84709_32780820	NC_021165.1	Ca_kabuli_chr06	32780820	CC	TT	1946868683
SNP_P4_84710_32805711	NC_021165.1	Ca_kabuli_chr06	32805711	CC	TT	1946868685
SNP_P4_84711_32812084	NC_021165.1	Ca_kabuli_chr06	32812084	TT	AA	1946868687
SNP_P4_84712_32846938	NC_021165.1	Ca_kabuli_chr06	32846938	AA	GG	1946868689
SNP_P4_84713_32846954	NC_021165.1	Ca_kabuli_chr06	32846954	AA	GG	1946868691
SNP_P4_84714_32868321	NC_021165.1	Ca_kabuli_chr06	32868321	AA	CC	1946868692
SNP_P4_84715_32877178	NC_021165.1	Ca_kabuli_chr06	32877178	AA	GG	1946868694
SNP_P4_84716_32888163	NC_021165.1	Ca_kabuli_chr06	32888163	GG	CC	1946868696
SNP_P4_84718_32932010	NC_021165.1	Ca_kabuli_chr06	32932010	CC	AA	1946868698
SNP_P4_84719_32932018	NC_021165.1	Ca_kabuli_chr06	32932018	CC	TT	1946868700
SNP_P4_84721_33032374	NC_021165.1	Ca_kabuli_chr06	33032374	CC	TT	1946868702
SNP_P4_84722_33039774	NC_021165.1	Ca_kabuli_chr06	33039774	TT	CC	1946868704
SNP_P4_84723_33039866	NC_021165.1	Ca_kabuli_chr06	33039866	AA	GG	1946868706
SNP_P4_84724_33039919	NC_021165.1	Ca_kabuli_chr06	33039919	CC	TT	1946868708
SNP_P4_84725_33039946	NC_021165.1	Ca_kabuli_chr06	33039946	AA	GG	1946868710
SNP_P4_84726_33039998	NC_021165.1	Ca_kabuli_chr06	33039998	CC	TT	1946868712
SNP_P4_84727_33042411	NC_021165.1	Ca_kabuli_chr06	33042411	TT	CC	1946868714
SNP_P4_84728_33055211	NC_021165.1	Ca_kabuli_chr06	33055211	GG	AA	1946868716
SNP_P4_84729_33055378	NC_021165.1	Ca_kabuli_chr06	33055378	TT	AA	1946868718
SNP_P4_84731_33055492	NC_021165.1	Ca_kabuli_chr06	33055492	AA	CC	1946868720
SNP_P4_84732_33055512	NC_021165.1	Ca_kabuli_chr06	33055512	TT	CC	1946868723
SNP_P4_84733_33087643	NC_021165.1	Ca_kabuli_chr06	33087643	AA	GG	1946868725
SNP_P4_84734_33088112	NC_021165.1	Ca_kabuli_chr06	33088112	AA	GG	1946868727

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_84736_33094128	NC_021165.1	Ca_kabuli_chr06	33094128	TT	CC	1946868731
SNP_P4_84737_33094201	NC_021165.1	Ca_kabuli_chr06	33094201	CC	TT	1946868733
SNP_P4_84738_33094227	NC_021165.1	Ca_kabuli_chr06	33094227	GG	CC	1946868735
SNP_P4_84739_33094241	NC_021165.1	Ca_kabuli_chr06	33094241	CC	TT	1946868737
SNP_P4_84740_33094249	NC_021165.1	Ca_kabuli_chr06	33094249	TT	CC	1946868739
SNP_P4_84741_33094269	NC_021165.1	Ca_kabuli_chr06	33094269	AA	GG	1946868741
SNP_P4_84742_33094293	NC_021165.1	Ca_kabuli_chr06	33094293	CC	TT	1946868743
SNP_P4_84743_33094309	NC_021165.1	Ca_kabuli_chr06	33094309	GG	AA	1946868745
SNP_P4_84744_33094315	NC_021165.1	Ca_kabuli_chr06	33094315	AA	TT	1946868747
SNP_P4_84745_33094337	NC_021165.1	Ca_kabuli_chr06	33094337	CC	TT	1946868749
SNP_P4_84746_33094358	NC_021165.1	Ca_kabuli_chr06	33094358	GG	AA	1946868752
SNP_P4_84747_33094384	NC_021165.1	Ca_kabuli_chr06	33094384	TT	CC	1946868754
SNP_P4_84748_33094404	NC_021165.1	Ca_kabuli_chr06	33094404	CC	TT	1946868756
SNP_P4_84749_33094436	NC_021165.1	Ca_kabuli_chr06	33094436	AA	TT	1946868758
SNP_P4_84750_33094450	NC_021165.1	Ca_kabuli_chr06	33094450	CC	TT	1946868760
SNP_P4_84751_33094502	NC_021165.1	Ca_kabuli_chr06	33094502	TT	CC	1946868762
SNP_P4_84752_33094548	NC_021165.1	Ca_kabuli_chr06	33094548	AA	CC	1946868764
SNP_P4_84753_33094583	NC_021165.1	Ca_kabuli_chr06	33094583	AA	CC	1946868766
SNP_P4_84754_33094590	NC_021165.1	Ca_kabuli_chr06	33094590	CC	TT	1946868768
SNP_P4_84756_33094656	NC_021165.1	Ca_kabuli_chr06	33094656	TT	CC	1946868769
SNP_P4_84758_33094876	NC_021165.1	Ca_kabuli_chr06	33094876	GG	AA	1946868771
SNP_P4_84759_33094905	NC_021165.1	Ca_kabuli_chr06	33094905	GG	AA	1946868773
SNP_P4_84761_33105230	NC_021165.1	Ca_kabuli_chr06	33105230	CC	TT	1946868775
SNP_P4_84762_33105246	NC_021165.1	Ca_kabuli_chr06	33105246	GG	AA	1946868777
SNP_P4_84763_33105340	NC_021165.1	Ca_kabuli_chr06	33105340	TT	CC	1946868779
SNP_P4_84764_33105372	NC_021165.1	Ca_kabuli_chr06	33105372	GG	AA	1946868781
SNP_P4_84765_33105972	NC_021165.1	Ca_kabuli_chr06	33105972	AA	GG	1946868783
SNP_P4_84766_33106397	NC_021165.1	Ca_kabuli_chr06	33106397	GG	AA	1946868786
SNP_P4_84767_33106430	NC_021165.1	Ca_kabuli_chr06	33106430	AA	GG	1946868788
SNP_P4_84768_33106479	NC_021165.1	Ca_kabuli_chr06	33106479	AA	GG	1946868790
SNP_P4_84769_33106568	NC_021165.1	Ca_kabuli_chr06	33106568	AA	GG	1946868792
SNP_P4_84771_33120392	NC_021165.1	Ca_kabuli_chr06	33120392	AA	GG	1946868794
SNP_P4_84772_33132425	NC_021165.1	Ca_kabuli_chr06	33132425	AA	TT	1946868796
SNP_P4_84773_33166895	NC_021165.1	Ca_kabuli_chr06	33166895	TT	GG	1946868797
SNP_P4_84774_33174500	NC_021165.1	Ca_kabuli_chr06	33174500	AA	GG	1946868799
SNP_P4_84775_33176504	NC_021165.1	Ca_kabuli_chr06	33176504	TT	AA	1946868801
SNP_P4_84776_33176508	NC_021165.1	Ca_kabuli_chr06	33176508	CC	TT	1946868803
SNP_P4_84777_33177446	NC_021165.1	Ca_kabuli_chr06	33177446	AA	GG	1946868805
SNP_P4_84778_33177545	NC_021165.1	Ca_kabuli_chr06	33177545	TT	CC	1946868807
SNP_P4_84779_33177655	NC_021165.1	Ca_kabuli_chr06	33177655	AA	GG	1946868809
SNP_P4_84780_33177669	NC_021165.1	Ca_kabuli_chr06	33177669	AA	TT	1946868811

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_84782_33177704	NC_021165.1	Ca_kabuli_chr06	33177704	TT	AA	1946868815
SNP_P4_84783_33177705	NC_021165.1	Ca_kabuli_chr06	33177705	CC	AA	1946868817
SNP_P4_84784_33177708	NC_021165.1	Ca_kabuli_chr06	33177708	CC	GG	1946868819
SNP_P4_84785_33177868	NC_021165.1	Ca_kabuli_chr06	33177868	TT	CC	1946868821
SNP_P4_84786_33177902	NC_021165.1	Ca_kabuli_chr06	33177902	TT	CC	1946868823
SNP_P4_84787_33177931	NC_021165.1	Ca_kabuli_chr06	33177931	AA	GG	1946868825
SNP_P4_84788_33177970	NC_021165.1	Ca_kabuli_chr06	33177970	TT	GG	1946868827
SNP_P4_84789_33178020	NC_021165.1	Ca_kabuli_chr06	33178020	CC	TT	1946868829
SNP_P4_84790_33180280	NC_021165.1	Ca_kabuli_chr06	33180280	CC	TT	1946868831
SNP_P4_84791_33183683	NC_021165.1	Ca_kabuli_chr06	33183683	CC	TT	1946868833
SNP_P4_84792_33183704	NC_021165.1	Ca_kabuli_chr06	33183704	CC	TT	1946868835
SNP_P4_84793_33183714	NC_021165.1	Ca_kabuli_chr06	33183714	TT	GG	1946868837
SNP_P4_84794_33183716	NC_021165.1	Ca_kabuli_chr06	33183716	TT	GG	1946868839
SNP_P4_84795_33188171	NC_021165.1	Ca_kabuli_chr06	33188171	AA	CC	1946868841
SNP_P4_84796_33188202	NC_021165.1	Ca_kabuli_chr06	33188202	AA	GG	1946868843
SNP_P4_84797_33188216	NC_021165.1	Ca_kabuli_chr06	33188216	TT	CC	1946868845
SNP_P4_84798_33188234	NC_021165.1	Ca_kabuli_chr06	33188234	TT	GG	1946868847
SNP_P4_84799_33188243	NC_021165.1	Ca_kabuli_chr06	33188243	GG	AA	1946868849
SNP_P4_84800_33188249	NC_021165.1	Ca_kabuli_chr06	33188249	GG	AA	1946868851
SNP_P4_84801_33188256	NC_021165.1	Ca_kabuli_chr06	33188256	GG	AA	1946868853
SNP_P4_84802_33188265	NC_021165.1	Ca_kabuli_chr06	33188265	TT	GG	1946868855
SNP_P4_84803_33188269	NC_021165.1	Ca_kabuli_chr06	33188269	GG	TT	1946868857
SNP_P4_84804_33188585	NC_021165.1	Ca_kabuli_chr06	33188585	TT	AA	1946868859
SNP_P4_84805_33210434	NC_021165.1	Ca_kabuli_chr06	33210434	TT	CC	1946868861
SNP_P4_84806_33210467	NC_021165.1	Ca_kabuli_chr06	33210467	CC	AA	1946868863
SNP_P4_84807_33210473	NC_021165.1	Ca_kabuli_chr06	33210473	GG	CC	1946868865
SNP_P4_84808_33210480	NC_021165.1	Ca_kabuli_chr06	33210480	AA	CC	1946868867
SNP_P4_84809_33210548	NC_021165.1	Ca_kabuli_chr06	33210548	AA	TT	1946868869
SNP_P4_84810_33210569	NC_021165.1	Ca_kabuli_chr06	33210569	CC	TT	1946868871
SNP_P4_84812_33210767	NC_021165.1	Ca_kabuli_chr06	33210767	AA	GG	1946868873
SNP_P4_84813_33210819	NC_021165.1	Ca_kabuli_chr06	33210819	CC	TT	1946868875
SNP_P4_84814_33210824	NC_021165.1	Ca_kabuli_chr06	33210824	CC	AA	1946868877
SNP_P4_84815_33210838	NC_021165.1	Ca_kabuli_chr06	33210838	AA	TT	1946868879
SNP_P4_84816_33222469	NC_021165.1	Ca_kabuli_chr06	33222469	GG	AA	1946868881
SNP_P4_84817_33223469	NC_021165.1	Ca_kabuli_chr06	33223469	TT	CC	1946868883
SNP_P4_84818_33223480	NC_021165.1	Ca_kabuli_chr06	33223480	TT	GG	1946868885
SNP_P4_84819_33223505	NC_021165.1	Ca_kabuli_chr06	33223505	CC	AA	1946868887
SNP_P4_84820_33223512	NC_021165.1	Ca_kabuli_chr06	33223512	CC	GG	1946868889
SNP_P4_84821_33223539	NC_021165.1	Ca_kabuli_chr06	33223539	TT	CC	1946868891
SNP_P4_84822_33228418	NC_021165.1	Ca_kabuli_chr06	33228418	TT	GG	1946868893
SNP_P4_84823_33228598	NC_021165.1	Ca_kabuli_chr06	33228598	TT	AA	1946868895

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_84825_33228688	NC_021165.1	Ca_kabuli_chr06	33228688	CC	TT	1946868899
SNP_P4_84826_33228970	NC_021165.1	Ca_kabuli_chr06	33228970	TT	CC	1946868901
SNP_P4_84827_33228985	NC_021165.1	Ca_kabuli_chr06	33228985	CC	TT	1946868903
SNP_P4_84828_33229106	NC_021165.1	Ca_kabuli_chr06	33229106	GG	TT	1946868905
SNP_P4_84829_33229108	NC_021165.1	Ca_kabuli_chr06	33229108	TT	AA	1946868907
SNP_P4_84832_33229305	NC_021165.1	Ca_kabuli_chr06	33229305	TT	AA	1946868909
SNP_P4_84833_33229398	NC_021165.1	Ca_kabuli_chr06	33229398	AA	CC	1946868911
SNP_P4_84834_33229465	NC_021165.1	Ca_kabuli_chr06	33229465	AA	GG	1946868913
SNP_P4_84835_33229469	NC_021165.1	Ca_kabuli_chr06	33229469	TT	AA	1946868914
SNP_P4_84836_33229481	NC_021165.1	Ca_kabuli_chr06	33229481	CC	TT	1946868916
SNP_P4_84838_33229560	NC_021165.1	Ca_kabuli_chr06	33229560	CC	TT	1946868918
SNP_P4_84839_33229652	NC_021165.1	Ca_kabuli_chr06	33229652	TT	AA	1946868920
SNP_P4_84840_33229713	NC_021165.1	Ca_kabuli_chr06	33229713	TT	CC	1946868922
SNP_P4_84841_33229723	NC_021165.1	Ca_kabuli_chr06	33229723	TT	CC	1946868924
SNP_P4_84842_33229744	NC_021165.1	Ca_kabuli_chr06	33229744	AA	GG	1946868926
SNP_P4_84843_33229776	NC_021165.1	Ca_kabuli_chr06	33229776	AA	GG	1946868928
SNP_P4_84845_33229821	NC_021165.1	Ca_kabuli_chr06	33229821	TT	GG	1946868930
SNP_P4_84847_33229871	NC_021165.1	Ca_kabuli_chr06	33229871	GG	TT	1946868932
SNP_P4_84848_33229872	NC_021165.1	Ca_kabuli_chr06	33229872	GG	TT	1946868934
SNP_P4_84849_33229887	NC_021165.1	Ca_kabuli_chr06	33229887	GG	AA	1946868936
SNP_P4_84850_33229889	NC_021165.1	Ca_kabuli_chr06	33229889	TT	CC	1946868938
SNP_P4_84851_33229924	NC_021165.1	Ca_kabuli_chr06	33229924	TT	GG	1946868940
SNP_P4_84852_33229930	NC_021165.1	Ca_kabuli_chr06	33229930	TT	AA	1946868942
SNP_P4_84853_33229987	NC_021165.1	Ca_kabuli_chr06	33229987	AA	TT	1946868944
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SNP_P4_84856_33230084	NC_021165.1	Ca_kabuli_chr06	33230084	GG	AA	1946868950
SNP_P4_84857_33230304	NC_021165.1	Ca_kabuli_chr06	33230304	CC	TT	1946868952
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SNP_P4_84860_33230335	NC_021165.1	Ca_kabuli_chr06	33230335	GG	AA	1946868957
SNP_P4_84861_33230346	NC_021165.1	Ca_kabuli_chr06	33230346	CC	GG	1946868960
SNP_P4_84862_33230493	NC_021165.1	Ca_kabuli_chr06	33230493	CC	TT	1946868962
SNP_P4_84864_33231693	NC_021165.1	Ca_kabuli_chr06	33231693	CC	TT	1946868964
SNP_P4_84866_33233710	NC_021165.1	Ca_kabuli_chr06	33233710	CC	TT	1946868966
SNP_P4_84867_33233716	NC_021165.1	Ca_kabuli_chr06	33233716	TT	CC	1946868968
SNP_P4_84868_33233728	NC_021165.1	Ca_kabuli_chr06	33233728	GG	AA	1946868970
SNP_P4_84869_33233768	NC_021165.1	Ca_kabuli_chr06	33233768	CC	TT	1946868972
SNP_P4_84870_33233791	NC_021165.1	Ca_kabuli_chr06	33233791	AA	GG	1946868974
SNP_P4_84871_33233859	NC_021165.1	Ca_kabuli_chr06	33233859	TT	GG	1946868976
SNP_P4_84872_33234076	NC_021165.1	Ca_kabuli_chr06	33234076	AA	TT	1946868977

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_84874_33234428	NC_021165.1	Ca_kabuli_chr06	33234428	TT	AA	1946868981
SNP_P4_84875_33234444	NC_021165.1	Ca_kabuli_chr06	33234444	TT	CC	1946868983
SNP_P4_84876_33234513	NC_021165.1	Ca_kabuli_chr06	33234513	GG	TT	1946868985
SNP_P4_84877_33234543	NC_021165.1	Ca_kabuli_chr06	33234543	TT	AA	1946868987
SNP_P4_84878_33236189	NC_021165.1	Ca_kabuli_chr06	33236189	AA	TT	1946868989
SNP_P4_84879_33240124	NC_021165.1	Ca_kabuli_chr06	33240124	GG	AA	1946868991
SNP_P4_84880_33240127	NC_021165.1	Ca_kabuli_chr06	33240127	TT	GG	1946868993
SNP_P4_84881_33240198	NC_021165.1	Ca_kabuli_chr06	33240198	CC	GG	1946868995
SNP_P4_84883_33240324	NC_021165.1	Ca_kabuli_chr06	33240324	TT	CC	1946868997
SNP_P4_84884_33240337	NC_021165.1	Ca_kabuli_chr06	33240337	CC	TT	1946868999
SNP_P4_84886_33240397	NC_021165.1	Ca_kabuli_chr06	33240397	GG	TT	1946869001
SNP_P4_84887_33240405	NC_021165.1	Ca_kabuli_chr06	33240405	TT	GG	1946869003
SNP_P4_84888_33240416	NC_021165.1	Ca_kabuli_chr06	33240416	GG	TT	1946869005
SNP_P4_84889_33240535	NC_021165.1	Ca_kabuli_chr06	33240535	AA	CC	1946869007
SNP_P4_84890_33240538	NC_021165.1	Ca_kabuli_chr06	33240538	TT	AA	1946869009
SNP_P4_84891_33240550	NC_021165.1	Ca_kabuli_chr06	33240550	TT	CC	1946869012
SNP_P4_84892_33240564	NC_021165.1	Ca_kabuli_chr06	33240564	TT	AA	1946869013
SNP_P4_84893_33240601	NC_021165.1	Ca_kabuli_chr06	33240601	CC	TT	1946869015
SNP_P4_84894_33240617	NC_021165.1	Ca_kabuli_chr06	33240617	AA	GG	1946869017
SNP_P4_84895_33240651	NC_021165.1	Ca_kabuli_chr06	33240651	GG	AA	1946869019
SNP_P4_84896_33240662	NC_021165.1	Ca_kabuli_chr06	33240662	TT	AA	1946869022
SNP_P4_84897_33240685	NC_021165.1	Ca_kabuli_chr06	33240685	CC	TT	1946869023
SNP_P4_84899_33240811	NC_021165.1	Ca_kabuli_chr06	33240811	GG	CC	1946869025
SNP_P4_84900_33240844	NC_021165.1	Ca_kabuli_chr06	33240844	TT	CC	1946869027
SNP_P4_84901_33240911	NC_021165.1	Ca_kabuli_chr06	33240911	AA	GG	1946869029
SNP_P4_84902_33240966	NC_021165.1	Ca_kabuli_chr06	33240966	AA	GG	1946869031
SNP_P4_84903_33241158	NC_021165.1	Ca_kabuli_chr06	33241158	AA	GG	1946869033
SNP_P4_84904_33241203	NC_021165.1	Ca_kabuli_chr06	33241203	TT	AA	1946869035
SNP_P4_84905_33241211	NC_021165.1	Ca_kabuli_chr06	33241211	GG	AA	1946869037
SNP_P4_84906_33241236	NC_021165.1	Ca_kabuli_chr06	33241236	CC	AA	1946869039
SNP_P4_84907_33241247	NC_021165.1	Ca_kabuli_chr06	33241247	CC	TT	1946869041
SNP_P4_84908_33241264	NC_021165.1	Ca_kabuli_chr06	33241264	CC	TT	1946869043
SNP_P4_84909_33241304	NC_021165.1	Ca_kabuli_chr06	33241304	CC	AA	1946869045
SNP_P4_84910_33241307	NC_021165.1	Ca_kabuli_chr06	33241307	AA	CC	1946869047
SNP_P4_84911_33282965	NC_021165.1	Ca_kabuli_chr06	33282965	AA	GG	1946869049
SNP_P4_84912_33282973	NC_021165.1	Ca_kabuli_chr06	33282973	TT	CC	1946869051
SNP_P4_84913_33283015	NC_021165.1	Ca_kabuli_chr06	33283015	AA	TT	1946869053
SNP_P4_84914_33283032	NC_021165.1	Ca_kabuli_chr06	33283032	AA	TT	1946869055
SNP_P4_84915_33283038	NC_021165.1	Ca_kabuli_chr06	33283038	GG	TT	1946869057
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SNP_P4_84917_33283058	NC_021165.1	Ca_kabuli_chr06	33283058	TT	AA	1946869061

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_84919_33283094	NC_021165.1	Ca_kabuli_chr06	33283094	CC	TT	1946869065
SNP_P4_84920_33283115	NC_021165.1	Ca_kabuli_chr06	33283115	AA	TT	1946869067
SNP_P4_84921_33283123	NC_021165.1	Ca_kabuli_chr06	33283123	AA	GG	1946869069
SNP_P4_84922_33283129	NC_021165.1	Ca_kabuli_chr06	33283129	GG	AA	1946869071
SNP_P4_84923_33283149	NC_021165.1	Ca_kabuli_chr06	33283149	GG	TT	1946869073
SNP_P4_84924_33283210	NC_021165.1	Ca_kabuli_chr06	33283210	GG	AA	1946869075
SNP_P4_84925_33283225	NC_021165.1	Ca_kabuli_chr06	33283225	AA	GG	1946869078
SNP_P4_84926_33283227	NC_021165.1	Ca_kabuli_chr06	33283227	GG	AA	1946869080
SNP_P4_84927_33283326	NC_021165.1	Ca_kabuli_chr06	33283326	CC	GG	1946869082
SNP_P4_84928_33283365	NC_021165.1	Ca_kabuli_chr06	33283365	CC	TT	1946869084
SNP_P4_84929_33283381	NC_021165.1	Ca_kabuli_chr06	33283381	TT	GG	1946869086
SNP_P4_84930_33283440	NC_021165.1	Ca_kabuli_chr06	33283440	CC	TT	1946869088
SNP_P4_84931_33283659	NC_021165.1	Ca_kabuli_chr06	33283659	CC	AA	1946869090
SNP_P4_84932_33284022	NC_021165.1	Ca_kabuli_chr06	33284022	GG	AA	1946869092
SNP_P4_84933_33284063	NC_021165.1	Ca_kabuli_chr06	33284063	GG	TT	1946869094
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SNP_P4_84936_33293560	NC_021165.1	Ca_kabuli_chr06	33293560	CC	TT	1946869098
SNP_P4_84937_33293679	NC_021165.1	Ca_kabuli_chr06	33293679	GG	TT	1946869100
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SNP_P4_84939_33293737	NC_021165.1	Ca_kabuli_chr06	33293737	GG	AA	1946869104
SNP_P4_84940_33293738	NC_021165.1	Ca_kabuli_chr06	33293738	AA	TT	1946869106
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SNP_P4_84943_33293861	NC_021165.1	Ca_kabuli_chr06	33293861	TT	AA	1946869110
SNP_P4_84944_33293862	NC_021165.1	Ca_kabuli_chr06	33293862	TT	GG	1946869112
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SNP_P4_84946_33295168	NC_021165.1	Ca_kabuli_chr06	33295168	TT	GG	1946869116
SNP_P4_84947_33295212	NC_021165.1	Ca_kabuli_chr06	33295212	GG	AA	1946869118
SNP_P4_84948_33295551	NC_021165.1	Ca_kabuli_chr06	33295551	GG	TT	1946869120
SNP_P4_84949_33295749	NC_021165.1	Ca_kabuli_chr06	33295749	GG	CC	1946869122
SNP_P4_84950_33295779	NC_021165.1	Ca_kabuli_chr06	33295779	GG	CC	1946869124
SNP_P4_84951_33295821	NC_021165.1	Ca_kabuli_chr06	33295821	TT	AA	1946869126
SNP_P4_84952_33295842	NC_021165.1	Ca_kabuli_chr06	33295842	GG	AA	1946869128
SNP_P4_84953_33295852	NC_021165.1	Ca_kabuli_chr06	33295852	AA	CC	1946869130
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SNP_P4_84956_33295998	NC_021165.1	Ca_kabuli_chr06	33295998	TT	CC	1946869136
SNP_P4_84957_33296014	NC_021165.1	Ca_kabuli_chr06	33296014	CC	TT	1946869138
SNP_P4_84958_33296017	NC_021165.1	Ca_kabuli_chr06	33296017	AA	GG	1946869140
SNP_P4_84959_33296053	NC_021165.1	Ca_kabuli_chr06	33296053	TT	CC	1946869142
SNP_P4_84960_33296054	NC_021165.1	Ca_kabuli_chr06	33296054	GG	AA	1946869144
SNP_P4_84961_33296060	NC_021165.1	Ca_kabuli_chr06	33296060	AA	GG	1946869146

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_84964_33296181	NC_021165.1	Ca_kabuli_chr06	33296181	AA	CC	1946869152
SNP_P4_84965_33296248	NC_021165.1	Ca_kabuli_chr06	33296248	AA	CC	1946869154
SNP_P4_84966_33296296	NC_021165.1	Ca_kabuli_chr06	33296296	TT	AA	1946869156
SNP_P4_84967_33296297	NC_021165.1	Ca_kabuli_chr06	33296297	CC	TT	1946869158
SNP_P4_84969_33296317	NC_021165.1	Ca_kabuli_chr06	33296317	GG	AA	1946869160
SNP_P4_84970_33296423	NC_021165.1	Ca_kabuli_chr06	33296423	TT	CC	1946869162
SNP_P4_84971_33296497	NC_021165.1	Ca_kabuli_chr06	33296497	GG	TT	1946869164
SNP_P4_84972_33296606	NC_021165.1	Ca_kabuli_chr06	33296606	AA	TT	1946869166
SNP_P4_84973_33296649	NC_021165.1	Ca_kabuli_chr06	33296649	CC	TT	1946869168
SNP_P4_84974_33296672	NC_021165.1	Ca_kabuli_chr06	33296672	CC	AA	1946869170
SNP_P4_84975_33296692	NC_021165.1	Ca_kabuli_chr06	33296692	AA	GG	1946869172
SNP_P4_84976_33296728	NC_021165.1	Ca_kabuli_chr06	33296728	GG	AA	1946869174
SNP_P4_84977_33296929	NC_021165.1	Ca_kabuli_chr06	33296929	GG	AA	1946869176
SNP_P4_84978_33296936	NC_021165.1	Ca_kabuli_chr06	33296936	GG	AA	1946869178
SNP_P4_84979_33296952	NC_021165.1	Ca_kabuli_chr06	33296952	AA	GG	1946869180
SNP_P4_84980_33297091	NC_021165.1	Ca_kabuli_chr06	33297091	AA	CC	1946869182
SNP_P4_84981_33297132	NC_021165.1	Ca_kabuli_chr06	33297132	TT	CC	1946869184
SNP_P4_84982_33297152	NC_021165.1	Ca_kabuli_chr06	33297152	TT	GG	1946869186
SNP_P4_84983_33297159	NC_021165.1	Ca_kabuli_chr06	33297159	AA	GG	1946869188
SNP_P4_84984_33297272	NC_021165.1	Ca_kabuli_chr06	33297272	GG	AA	1946869190
SNP_P4_84985_33297426	NC_021165.1	Ca_kabuli_chr06	33297426	AA	GG	1946869192
SNP_P4_84986_33298877	NC_021165.1	Ca_kabuli_chr06	33298877	TT	AA	1946869194
SNP_P4_84987_33299943	NC_021165.1	Ca_kabuli_chr06	33299943	CC	GG	1946869196
SNP_P4_84988_33299948	NC_021165.1	Ca_kabuli_chr06	33299948	GG	TT	1946869198
SNP_P4_84989_33299966	NC_021165.1	Ca_kabuli_chr06	33299966	CC	GG	1946869200
SNP_P4_84990_33300123	NC_021165.1	Ca_kabuli_chr06	33300123	AA	TT	1946869203
SNP_P4_84991_33300188	NC_021165.1	Ca_kabuli_chr06	33300188	AA	GG	1946869205
SNP_P4_84992_33310269	NC_021165.1	Ca_kabuli_chr06	33310269	AA	GG	1946869207
SNP_P4_84993_33310356	NC_021165.1	Ca_kabuli_chr06	33310356	CC	AA	1946869209
SNP_P4_84994_33314086	NC_021165.1	Ca_kabuli_chr06	33314086	AA	TT	1946869211
SNP_P4_84995_33314164	NC_021165.1	Ca_kabuli_chr06	33314164	TT	AA	1946869213
SNP_P4_84996_33316767	NC_021165.1	Ca_kabuli_chr06	33316767	AA	GG	1946869215
SNP_P4_84997_33316791	NC_021165.1	Ca_kabuli_chr06	33316791	AA	GG	1946869217
SNP_P4_84998_33317010	NC_021165.1	Ca_kabuli_chr06	33317010	AA	GG	1946869219
SNP_P4_84999_33317038	NC_021165.1	Ca_kabuli_chr06	33317038	AA	TT	1946869221
SNP_P4_85000_33317045	NC_021165.1	Ca_kabuli_chr06	33317045	TT	AA	1946869223
SNP_P4_85001_33317564	NC_021165.1	Ca_kabuli_chr06	33317564	AA	TT	1946869225
SNP_P4_85002_33322018	NC_021165.1	Ca_kabuli_chr06	33322018	TT	CC	1946869227
SNP_P4_85003_33322312	NC_021165.1	Ca_kabuli_chr06	33322312	GG	AA	1946869229
SNP_P4_85005_33336087	NC_021165.1	Ca_kabuli_chr06	33336087	CC	TT	1946869231

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_85007_33340457	NC_021165.1	Ca_kabuli_chr06	33340457	CC	TT	1946869235
SNP_P4_85008_33340469	NC_021165.1	Ca_kabuli_chr06	33340469	TT	CC	1946869237
SNP_P4_85009_33340590	NC_021165.1	Ca_kabuli_chr06	33340590	AA	TT	1946869239
SNP_P4_85010_33340746	NC_021165.1	Ca_kabuli_chr06	33340746	GG	AA	1946869241
SNP_P4_85011_33340775	NC_021165.1	Ca_kabuli_chr06	33340775	GG	TT	1946869243
SNP_P4_85012_33340878	NC_021165.1	Ca_kabuli_chr06	33340878	CC	AA	1946869245
SNP_P4_85013_33340891	NC_021165.1	Ca_kabuli_chr06	33340891	CC	TT	1946869247
SNP_P4_85014_33340909	NC_021165.1	Ca_kabuli_chr06	33340909	TT	CC	1946869249
SNP_P4_85015_33340911	NC_021165.1	Ca_kabuli_chr06	33340911	GG	AA	1946869251
SNP_P4_85016_33340994	NC_021165.1	Ca_kabuli_chr06	33340994	AA	GG	1946869253
SNP_P4_85017_33341001	NC_021165.1	Ca_kabuli_chr06	33341001	AA	GG	1946869255
SNP_P4_85018_33341024	NC_021165.1	Ca_kabuli_chr06	33341024	TT	CC	1946869257
SNP_P4_85019_33341074	NC_021165.1	Ca_kabuli_chr06	33341074	CC	TT	1946869259
SNP_P4_85020_33341077	NC_021165.1	Ca_kabuli_chr06	33341077	TT	CC	1946869261
SNP_P4_85021_33341154	NC_021165.1	Ca_kabuli_chr06	33341154	GG	AA	1946869263
SNP_P4_85022_33341161	NC_021165.1	Ca_kabuli_chr06	33341161	CC	AA	1946869265
SNP_P4_85023_33341241	NC_021165.1	Ca_kabuli_chr06	33341241	TT	CC	1946869267
SNP_P4_85024_33341336	NC_021165.1	Ca_kabuli_chr06	33341336	GG	TT	1946869269
SNP_P4_85025_33341349	NC_021165.1	Ca_kabuli_chr06	33341349	TT	CC	1946869271
SNP_P4_85026_33341363	NC_021165.1	Ca_kabuli_chr06	33341363	GG	AA	1946869273
SNP_P4_85027_33341480	NC_021165.1	Ca_kabuli_chr06	33341480	TT	CC	1946869274
SNP_P4_85028_33341619	NC_021165.1	Ca_kabuli_chr06	33341619	TT	CC	1946869277
SNP_P4_85029_33341634	NC_021165.1	Ca_kabuli_chr06	33341634	TT	GG	1946869279
SNP_P4_85030_33341723	NC_021165.1	Ca_kabuli_chr06	33341723	TT	AA	1946869280
SNP_P4_85031_33346283	NC_021165.1	Ca_kabuli_chr06	33346283	AA	GG	1946869281
SNP_P4_85032_33346716	NC_021165.1	Ca_kabuli_chr06	33346716	AA	GG	1946869282
SNP_P4_85033_33357582	NC_021165.1	Ca_kabuli_chr06	33357582	GG	TT	1946869283
SNP_P4_85034_33358386	NC_021165.1	Ca_kabuli_chr06	33358386	GG	AA	1946869284
SNP_P4_85035_33360050	NC_021165.1	Ca_kabuli_chr06	33360050	AA	GG	1946869286
SNP_P4_85036_33392258	NC_021165.1	Ca_kabuli_chr06	33392258	AA	TT	1946869288
SNP_P4_85037_33408278	NC_021165.1	Ca_kabuli_chr06	33408278	CC	AA	1946869290
SNP_P4_85038_33426918	NC_021165.1	Ca_kabuli_chr06	33426918	CC	AA	1946869292
SNP_P4_85039_33427939	NC_021165.1	Ca_kabuli_chr06	33427939	CC	TT	1946869294
SNP_P4_85040_33443946	NC_021165.1	Ca_kabuli_chr06	33443946	AA	GG	1946869296
SNP_P4_85041_33444373	NC_021165.1	Ca_kabuli_chr06	33444373	CC	TT	1946869298
SNP_P4_85042_33444632	NC_021165.1	Ca_kabuli_chr06	33444632	AA	CC	1946869300
SNP_P4_85043_33444633	NC_021165.1	Ca_kabuli_chr06	33444633	AA	TT	1946869302
SNP_P4_85044_33444634	NC_021165.1	Ca_kabuli_chr06	33444634	GG	CC	1946869304
SNP_P4_85045_33444674	NC_021165.1	Ca_kabuli_chr06	33444674	CC	AA	1946869306
SNP_P4_85046_33444679	NC_021165.1	Ca_kabuli_chr06	33444679	CC	TT	1946869308
SNP_P4_85047_33444700	NC_021165.1	Ca_kabuli_chr06	33444700	GG	AA	1946869310

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_85049_33444855	NC_021165.1	Ca_kabuli_chr06	33444855	CC	TT	1946869314
SNP_P4_85050_33457860	NC_021165.1	Ca_kabuli_chr06	33457860	GG	TT	1946869316
SNP_P4_85051_33457863	NC_021165.1	Ca_kabuli_chr06	33457863	TT	GG	1946869318
SNP_P4_85052_33457876	NC_021165.1	Ca_kabuli_chr06	33457876	GG	TT	1946869320
SNP_P4_85053_33457923	NC_021165.1	Ca_kabuli_chr06	33457923	TT	CC	1946869322
SNP_P4_85054_33457937	NC_021165.1	Ca_kabuli_chr06	33457937	CC	TT	1946869324
SNP_P4_85055_33458027	NC_021165.1	Ca_kabuli_chr06	33458027	TT	CC	1946869326
SNP_P4_85056_33458072	NC_021165.1	Ca_kabuli_chr06	33458072	CC	TT	1946869328
SNP_P4_85057_33474471	NC_021165.1	Ca_kabuli_chr06	33474471	CC	TT	1946869330
SNP_P4_85058_33474472	NC_021165.1	Ca_kabuli_chr06	33474472	AA	TT	1946869332
SNP_P4_85059_33491553	NC_021165.1	Ca_kabuli_chr06	33491553	CC	TT	1946869334
SNP_P4_85061_33534422	NC_021165.1	Ca_kabuli_chr06	33534422	TT	GG	1946869336
SNP_P4_85064_33578407	NC_021165.1	Ca_kabuli_chr06	33578407	GG	AA	1946869338
SNP_P4_85065_33578414	NC_021165.1	Ca_kabuli_chr06	33578414	AA	TT	1946869340
SNP_P4_85066_33578426	NC_021165.1	Ca_kabuli_chr06	33578426	GG	AA	1946869343
SNP_P4_85067_33578434	NC_021165.1	Ca_kabuli_chr06	33578434	AA	TT	1946869345
SNP_P4_85068_33589864	NC_021165.1	Ca_kabuli_chr06	33589864	TT	AA	1946869347
SNP_P4_85069_33633062	NC_021165.1	Ca_kabuli_chr06	33633062	TT	CC	1946869349
SNP_P4_85070_33633083	NC_021165.1	Ca_kabuli_chr06	33633083	AA	GG	1946869351
SNP_P4_85071_33633101	NC_021165.1	Ca_kabuli_chr06	33633101	GG	AA	1946869352
SNP_P4_85072_33649077	NC_021165.1	Ca_kabuli_chr06	33649077	AA	CC	1946869353
SNP_P4_85073_33649314	NC_021165.1	Ca_kabuli_chr06	33649314	AA	GG	1946869354
SNP_P4_85074_33649319	NC_021165.1	Ca_kabuli_chr06	33649319	AA	GG	1946869355
SNP_P4_85075_33649868	NC_021165.1	Ca_kabuli_chr06	33649868	CC	TT	1946869357
SNP_P4_85076_33649884	NC_021165.1	Ca_kabuli_chr06	33649884	TT	CC	1946869359
SNP_P4_85077_33650878	NC_021165.1	Ca_kabuli_chr06	33650878	GG	AA	1946869361
SNP_P4_85078_33651229	NC_021165.1	Ca_kabuli_chr06	33651229	GG	AA	1946869363
SNP_P4_85079_33651308	NC_021165.1	Ca_kabuli_chr06	33651308	TT	CC	1946869365
SNP_P4_85080_33651311	NC_021165.1	Ca_kabuli_chr06	33651311	TT	CC	1946869367
SNP_P4_85081_33651323	NC_021165.1	Ca_kabuli_chr06	33651323	CC	TT	1946869369
SNP_P4_85082_33651326	NC_021165.1	Ca_kabuli_chr06	33651326	GG	AA	1946869371
SNP_P4_85083_33651681	NC_021165.1	Ca_kabuli_chr06	33651681	GG	AA	1946869373
SNP_P4_85084_33655992	NC_021165.1	Ca_kabuli_chr06	33655992	GG	AA	1946869375
SNP_P4_85085_33657608	NC_021165.1	Ca_kabuli_chr06	33657608	GG	AA	1946869377
SNP_P4_85086_33769491	NC_021165.1	Ca_kabuli_chr06	33769491	AA	GG	1946869379
SNP_P4_85087_33787248	NC_021165.1	Ca_kabuli_chr06	33787248	GG	AA	1946869381
SNP_P4_85088_33787257	NC_021165.1	Ca_kabuli_chr06	33787257	GG	AA	1946869383
SNP_P4_85089_33802917	NC_021165.1	Ca_kabuli_chr06	33802917	AA	GG	1946869385
SNP_P4_85090_33851030	NC_021165.1	Ca_kabuli_chr06	33851030	GG	CC	1946869387
SNP_P4_85091_33877877	NC_021165.1	Ca_kabuli_chr06	33877877	AA	GG	1946869389
SNP_P4_85092_33877896	NC_021165.1	Ca_kabuli_chr06	33877896	GG	AA	1946869391

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_85094_33886581	NC_021165.1	Ca_kabuli_chr06	33886581	CC	AA	1946869394
SNP_P4_85095_33886622	NC_021165.1	Ca_kabuli_chr06	33886622	AA	CC	1946869396
SNP_P4_85096_33889740	NC_021165.1	Ca_kabuli_chr06	33889740	TT	CC	1946869398
SNP_P4_85097_33918564	NC_021165.1	Ca_kabuli_chr06	33918564	TT	CC	1946869400
SNP_P4_85098_33918584	NC_021165.1	Ca_kabuli_chr06	33918584	GG	TT	1946869402
SNP_P4_85099_33919866	NC_021165.1	Ca_kabuli_chr06	33919866	GG	AA	1946869404
SNP_P4_85100_33928851	NC_021165.1	Ca_kabuli_chr06	33928851	GG	AA	1946869406
SNP_P4_85101_33941863	NC_021165.1	Ca_kabuli_chr06	33941863	TT	CC	1946869408
SNP_P4_85102_33941866	NC_021165.1	Ca_kabuli_chr06	33941866	CC	TT	1946869410
SNP_P4_85103_33942061	NC_021165.1	Ca_kabuli_chr06	33942061	CC	TT	1946869412
SNP_P4_85104_33942074	NC_021165.1	Ca_kabuli_chr06	33942074	AA	GG	1946869414
SNP_P4_85105_33946800	NC_021165.1	Ca_kabuli_chr06	33946800	TT	GG	1946869416
SNP_P4_85106_33969155	NC_021165.1	Ca_kabuli_chr06	33969155	AA	GG	1946869418
SNP_P4_85107_33974241	NC_021165.1	Ca_kabuli_chr06	33974241	AA	TT	1946869420
SNP_P4_85108_33974244	NC_021165.1	Ca_kabuli_chr06	33974244	CC	AA	1946869422
SNP_P4_85109_33981482	NC_021165.1	Ca_kabuli_chr06	33981482	CC	TT	1946869424
SNP_P4_85111_33981666	NC_021165.1	Ca_kabuli_chr06	33981666	GG	AA	1946869426
SNP_P4_85112_33986296	NC_021165.1	Ca_kabuli_chr06	33986296	AA	GG	1946869428
SNP_P4_85113_33986325	NC_021165.1	Ca_kabuli_chr06	33986325	TT	CC	1946869430
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SNP_P4_85115_33988733	NC_021165.1	Ca_kabuli_chr06	33988733	TT	AA	1946869434
SNP_P4_85116_33988794	NC_021165.1	Ca_kabuli_chr06	33988794	GG	AA	1946869436
SNP_P4_85117_33988908	NC_021165.1	Ca_kabuli_chr06	33988908	CC	TT	1946869438
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SNP_P4_85122_33989067	NC_021165.1	Ca_kabuli_chr06	33989067	CC	AA	1946869447
SNP_P4_85123_33989076	NC_021165.1	Ca_kabuli_chr06	33989076	CC	GG	1946869449
SNP_P4_85124_33989115	NC_021165.1	Ca_kabuli_chr06	33989115	CC	TT	1946869451
SNP_P4_85125_33995807	NC_021165.1	Ca_kabuli_chr06	33995807	AA	GG	1946869453
SNP_P4_85127_34008584	NC_021165.1	Ca_kabuli_chr06	34008584	GG	AA	1946869455
SNP_P4_85128_34015273	NC_021165.1	Ca_kabuli_chr06	34015273	CC	TT	1946869457
SNP_P4_85129_34015281	NC_021165.1	Ca_kabuli_chr06	34015281	AA	TT	1946869459
SNP_P4_85130_34020955	NC_021165.1	Ca_kabuli_chr06	34020955	GG	AA	1946869461
SNP_P4_85131_34021795	NC_021165.1	Ca_kabuli_chr06	34021795	TT	AA	1946869463
SNP_P4_85132_34029781	NC_021165.1	Ca_kabuli_chr06	34029781	CC	TT	1946869465
SNP_P4_85133_34029812	NC_021165.1	Ca_kabuli_chr06	34029812	TT	CC	1946869467
SNP_P4_85135_34047891	NC_021165.1	Ca_kabuli_chr06	34047891	AA	TT	1946869469
SNP_P4_85136_34052328	NC_021165.1	Ca_kabuli_chr06	34052328	CC	GG	1946869471
SNP_P4_85137_34058248	NC_021165.1	Ca_kabuli_chr06	34058248	AA	TT	1946869473

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_85139_34058616	NC_021165.1	Ca_kabuli_chr06	34058616	GG	AA	1946869477
SNP_P4_85140_34058647	NC_021165.1	Ca_kabuli_chr06	34058647	TT	CC	1946869479
SNP_P4_85141_34058665	NC_021165.1	Ca_kabuli_chr06	34058665	CC	GG	1946869481
SNP_P4_85142_34058666	NC_021165.1	Ca_kabuli_chr06	34058666	AA	GG	1946869483
SNP_P4_85143_34058695	NC_021165.1	Ca_kabuli_chr06	34058695	TT	CC	1946869485
SNP_P4_85144_34058737	NC_021165.1	Ca_kabuli_chr06	34058737	GG	AA	1946869487
SNP_P4_85145_34065190	NC_021165.1	Ca_kabuli_chr06	34065190	CC	TT	1946869489
SNP_P4_85146_34065490	NC_021165.1	Ca_kabuli_chr06	34065490	TT	CC	1946869491
SNP_P4_85147_34065492	NC_021165.1	Ca_kabuli_chr06	34065492	AA	CC	1946869493
SNP_P4_85148_34065493	NC_021165.1	Ca_kabuli_chr06	34065493	CC	AA	1946869495
SNP_P4_85149_34065508	NC_021165.1	Ca_kabuli_chr06	34065508	TT	AA	1946869497
SNP_P4_85150_34090664	NC_021165.1	Ca_kabuli_chr06	34090664	GG	AA	1946869499
SNP_P4_85151_34091727	NC_021165.1	Ca_kabuli_chr06	34091727	TT	GG	1946869501
SNP_P4_85152_34091742	NC_021165.1	Ca_kabuli_chr06	34091742	AA	TT	1946869503
SNP_P4_85153_34091743	NC_021165.1	Ca_kabuli_chr06	34091743	TT	CC	1946869505
SNP_P4_85154_34092061	NC_021165.1	Ca_kabuli_chr06	34092061	CC	TT	1946869507
SNP_P4_85155_34092916	NC_021165.1	Ca_kabuli_chr06	34092916	CC	GG	1946869509
SNP_P4_85156_34117482	NC_021165.1	Ca_kabuli_chr06	34117482	TT	GG	1946869511
SNP_P4_85157_34125795	NC_021165.1	Ca_kabuli_chr06	34125795	AA	GG	1946869513
SNP_P4_85159_34135502	NC_021165.1	Ca_kabuli_chr06	34135502	TT	GG	1946869515
SNP_P4_85160_34143440	NC_021165.1	Ca_kabuli_chr06	34143440	GG	AA	1946869517
SNP_P4_85161_34143442	NC_021165.1	Ca_kabuli_chr06	34143442	GG	AA	1946869519
SNP_P4_85162_34143443	NC_021165.1	Ca_kabuli_chr06	34143443	CC	TT	1946869521
SNP_P4_85163_34143445	NC_021165.1	Ca_kabuli_chr06	34143445	AA	GG	1946869523
SNP_P4_85164_34144518	NC_021165.1	Ca_kabuli_chr06	34144518	TT	AA	1946869525
SNP_P4_85165_34144528	NC_021165.1	Ca_kabuli_chr06	34144528	TT	GG	1946869527
SNP_P4_85166_34144550	NC_021165.1	Ca_kabuli_chr06	34144550	GG	AA	1946869529
SNP_P4_85167_34144576	NC_021165.1	Ca_kabuli_chr06	34144576	GG	CC	1946869531
SNP_P4_85168_34144590	NC_021165.1	Ca_kabuli_chr06	34144590	AA	TT	1946869533
SNP_P4_85169_34144594	NC_021165.1	Ca_kabuli_chr06	34144594	CC	TT	1946869535
SNP_P4_85170_34144606	NC_021165.1	Ca_kabuli_chr06	34144606	AA	GG	1946869537
SNP_P4_85171_34144620	NC_021165.1	Ca_kabuli_chr06	34144620	AA	CC	1946869539
SNP_P4_85172_34144653	NC_021165.1	Ca_kabuli_chr06	34144653	AA	TT	1946869541
SNP_P4_85173_34144654	NC_021165.1	Ca_kabuli_chr06	34144654	TT	AA	1946869543
SNP_P4_85174_34144669	NC_021165.1	Ca_kabuli_chr06	34144669	CC	GG	1946869545
SNP_P4_85175_34144946	NC_021165.1	Ca_kabuli_chr06	34144946	TT	CC	1946869547
SNP_P4_85176_34144962	NC_021165.1	Ca_kabuli_chr06	34144962	TT	AA	1946869549
SNP_P4_85177_34144975	NC_021165.1	Ca_kabuli_chr06	34144975	AA	GG	1946869551
SNP_P4_85178_34145005	NC_021165.1	Ca_kabuli_chr06	34145005	TT	GG	1946869553
SNP_P4_85179_34145096	NC_021165.1	Ca_kabuli_chr06	34145096	AA	TT	1946869555
SNP_P4_85180_34162053	NC_021165.1	Ca_kabuli_chr06	34162053	TT	CC	1946869557

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_85181_34162098	NC_021165.1	Ca_kabuli_chr06	34162098	AA	TT	1946869559
SNP_P4_85182_34162115	NC_021165.1	Ca_kabuli_chr06	34162115	AA	GG	1946869561
SNP_P4_85184_34162270	NC_021165.1	Ca_kabuli_chr06	34162270	TT	AA	1946869563
SNP_P4_85185_34162299	NC_021165.1	Ca_kabuli_chr06	34162299	GG	TT	1946869565
SNP_P4_85186_34162369	NC_021165.1	Ca_kabuli_chr06	34162369	TT	AA	1946869567
SNP_P4_85187_34162372	NC_021165.1	Ca_kabuli_chr06	34162372	AA	CC	1946869569
SNP_P4_85188_34162544	NC_021165.1	Ca_kabuli_chr06	34162544	CC	AA	1946869571
SNP_P4_85189_34162552	NC_021165.1	Ca_kabuli_chr06	34162552	AA	CC	1946869573
SNP_P4_85190_34162808	NC_021165.1	Ca_kabuli_chr06	34162808	CC	TT	1946869575
SNP_P4_85191_34163692	NC_021165.1	Ca_kabuli_chr06	34163692	GG	CC	1946869577
SNP_P4_85192_34164186	NC_021165.1	Ca_kabuli_chr06	34164186	GG	AA	1946869579
SNP_P4_85193_34164255	NC_021165.1	Ca_kabuli_chr06	34164255	CC	AA	1946869581
SNP_P4_85194_34164271	NC_021165.1	Ca_kabuli_chr06	34164271	CC	TT	1946869583
SNP_P4_85195_34164326	NC_021165.1	Ca_kabuli_chr06	34164326	TT	CC	1946869585
SNP_P4_85196_34164361	NC_021165.1	Ca_kabuli_chr06	34164361	CC	TT	1946869587
SNP_P4_85197_34164374	NC_021165.1	Ca_kabuli_chr06	34164374	TT	AA	1946869589
SNP_P4_85198_34164382	NC_021165.1	Ca_kabuli_chr06	34164382	AA	TT	1946869591
SNP_P4_85199_34164405	NC_021165.1	Ca_kabuli_chr06	34164405	GG	AA	1946869593
SNP_P4_85200_34164428	NC_021165.1	Ca_kabuli_chr06	34164428	AA	TT	1946869595
SNP_P4_85201_34164493	NC_021165.1	Ca_kabuli_chr06	34164493	AA	GG	1946869598
SNP_P4_85202_34164500	NC_021165.1	Ca_kabuli_chr06	34164500	CC	AA	1946869600
SNP_P4_85203_34164542	NC_021165.1	Ca_kabuli_chr06	34164542	TT	AA	1946869602
SNP_P4_85204_34164567	NC_021165.1	Ca_kabuli_chr06	34164567	CC	AA	1946869604
SNP_P4_85205_34164568	NC_021165.1	Ca_kabuli_chr06	34164568	CC	AA	1946869606
SNP_P4_85206_34164641	NC_021165.1	Ca_kabuli_chr06	34164641	TT	GG	1946869608
SNP_P4_85207_34164677	NC_021165.1	Ca_kabuli_chr06	34164677	GG	AA	1946869610
SNP_P4_85209_34164785	NC_021165.1	Ca_kabuli_chr06	34164785	TT	GG	1946869612
SNP_P4_85210_34164787	NC_021165.1	Ca_kabuli_chr06	34164787	AA	GG	1946869614
SNP_P4_85211_34164824	NC_021165.1	Ca_kabuli_chr06	34164824	CC	TT	1946869616
SNP_P4_85212_34164845	NC_021165.1	Ca_kabuli_chr06	34164845	TT	CC	1946869618
SNP_P4_85213_34164875	NC_021165.1	Ca_kabuli_chr06	34164875	GG	AA	1946869620
SNP_P4_85214_34164899	NC_021165.1	Ca_kabuli_chr06	34164899	TT	AA	1946869623
SNP_P4_85215_34164916	NC_021165.1	Ca_kabuli_chr06	34164916	GG	TT	1946869625
SNP_P4_85216_34164922	NC_021165.1	Ca_kabuli_chr06	34164922	CC	AA	1946869627
SNP_P4_85217_34164940	NC_021165.1	Ca_kabuli_chr06	34164940	CC	TT	1946869629
SNP_P4_85218_34165916	NC_021165.1	Ca_kabuli_chr06	34165916	TT	AA	1946869631
SNP_P4_85219_34165935	NC_021165.1	Ca_kabuli_chr06	34165935	TT	CC	1946869633
SNP_P4_85220_34165940	NC_021165.1	Ca_kabuli_chr06	34165940	CC	GG	1946869635
SNP_P4_85221_34165942	NC_021165.1	Ca_kabuli_chr06	34165942	TT	CC	1946869637
SNP_P4_85222_34166303	NC_021165.1	Ca_kabuli_chr06	34166303	AA	TT	1946869639
SNP_P4_85223_34166338	NC_021165.1	Ca_kabuli_chr06	34166338	TT	AA	1946869641
SNP_P4_85224_34169563	NC_021165.1	Ca_kabuli_chr06	34169563	AA	GG	1946869643

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_85227_34190393	NC_021165.1	Ca_kabuli_chr06	34190393	TT	CC	1946869647
SNP_P4_85228_34190711	NC_021165.1	Ca_kabuli_chr06	34190711	CC	TT	1946869649
SNP_P4_85229_34211809	NC_021165.1	Ca_kabuli_chr06	34211809	GG	AA	1946869651
SNP_P4_85232_34362493	NC_021165.1	Ca_kabuli_chr06	34362493	TT	AA	1946869653
SNP_P4_85233_34434180	NC_021165.1	Ca_kabuli_chr06	34434180	AA	GG	1946869655
SNP_P4_85234_34439378	NC_021165.1	Ca_kabuli_chr06	34439378	GG	AA	1946869657
SNP_P4_85235_34457463	NC_021165.1	Ca_kabuli_chr06	34457463	TT	CC	1946869660
SNP_P4_85236_34469778	NC_021165.1	Ca_kabuli_chr06	34469778	GG	AA	1946869662
SNP_P4_85237_34473494	NC_021165.1	Ca_kabuli_chr06	34473494	CC	TT	1946869664
SNP_P4_85238_34503833	NC_021165.1	Ca_kabuli_chr06	34503833	GG	AA	1946869666
SNP_P4_85239_34528851	NC_021165.1	Ca_kabuli_chr06	34528851	AA	GG	1946869668
SNP_P4_85241_34564531	NC_021165.1	Ca_kabuli_chr06	34564531	GG	AA	1946869670
SNP_P4_85242_34564592	NC_021165.1	Ca_kabuli_chr06	34564592	AA	GG	1946869672
SNP_P4_85243_34565082	NC_021165.1	Ca_kabuli_chr06	34565082	AA	TT	1946869674
SNP_P4_85244_34567388	NC_021165.1	Ca_kabuli_chr06	34567388	CC	TT	1946869676
SNP_P4_85245_34567404	NC_021165.1	Ca_kabuli_chr06	34567404	CC	TT	1946869678
SNP_P4_85246_34567840	NC_021165.1	Ca_kabuli_chr06	34567840	AA	TT	1946869680
SNP_P4_85247_34567868	NC_021165.1	Ca_kabuli_chr06	34567868	AA	GG	1946869682
SNP_P4_85248_34567915	NC_021165.1	Ca_kabuli_chr06	34567915	TT	AA	1946869684
SNP_P4_85249_34568424	NC_021165.1	Ca_kabuli_chr06	34568424	AA	GG	1946869686
SNP_P4_85250_34568508	NC_021165.1	Ca_kabuli_chr06	34568508	GG	AA	1946869688
SNP_P4_85251_34569956	NC_021165.1	Ca_kabuli_chr06	34569956	CC	TT	1946869690
SNP_P4_85252_34569991	NC_021165.1	Ca_kabuli_chr06	34569991	TT	AA	1946869692
SNP_P4_85253_34570076	NC_021165.1	Ca_kabuli_chr06	34570076	TT	CC	1946869694
SNP_P4_85255_34570332	NC_021165.1	Ca_kabuli_chr06	34570332	TT	CC	1946869697
SNP_P4_85256_34570339	NC_021165.1	Ca_kabuli_chr06	34570339	CC	TT	1946869699
SNP_P4_85257_34570354	NC_021165.1	Ca_kabuli_chr06	34570354	GG	AA	1946869701
SNP_P4_85258_34570587	NC_021165.1	Ca_kabuli_chr06	34570587	TT	CC	1946869703
SNP_P4_85259_34570856	NC_021165.1	Ca_kabuli_chr06	34570856	AA	GG	1946869705
SNP_P4_85260_34570889	NC_021165.1	Ca_kabuli_chr06	34570889	CC	AA	1946869707
SNP_P4_85261_34570890	NC_021165.1	Ca_kabuli_chr06	34570890	GG	AA	1946869709
SNP_P4_85262_34570892	NC_021165.1	Ca_kabuli_chr06	34570892	TT	CC	1946869711
SNP_P4_85263_34570908	NC_021165.1	Ca_kabuli_chr06	34570908	CC	AA	1946869713
SNP_P4_85264_34614916	NC_021165.1	Ca_kabuli_chr06	34614916	TT	CC	1946869715
SNP_P4_85265_34614925	NC_021165.1	Ca_kabuli_chr06	34614925	TT	CC	1946869717
SNP_P4_85266_34614926	NC_021165.1	Ca_kabuli_chr06	34614926	AA	GG	1946869719
SNP_P4_85267_34632261	NC_021165.1	Ca_kabuli_chr06	34632261	TT	AA	1946869721
SNP_P4_85268_34662202	NC_021165.1	Ca_kabuli_chr06	34662202	GG	AA	1946869723
SNP_P4_85269_34662207	NC_021165.1	Ca_kabuli_chr06	34662207	AA	TT	1946869725
SNP_P4_85270_34662237	NC_021165.1	Ca_kabuli_chr06	34662237	GG	CC	1946869727
SNP_P4_85271_34662249	NC_021165.1	Ca_kabuli_chr06	34662249	TT	CC	1946869730

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_85273_34662313	NC_021165.1	Ca_kabuli_chr06	34662313	CC	TT	1946869734
SNP_P4_85274_34684298	NC_021165.1	Ca_kabuli_chr06	34684298	CC	TT	1946869736
SNP_P4_85275_34684384	NC_021165.1	Ca_kabuli_chr06	34684384	TT	CC	1946869738
SNP_P4_85277_34684473	NC_021165.1	Ca_kabuli_chr06	34684473	TT	CC	1946869740
SNP_P4_85278_34684676	NC_021165.1	Ca_kabuli_chr06	34684676	AA	TT	1946869742
SNP_P4_85279_34684677	NC_021165.1	Ca_kabuli_chr06	34684677	CC	TT	1946869744
SNP_P4_85280_34684679	NC_021165.1	Ca_kabuli_chr06	34684679	TT	GG	1946869746
SNP_P4_85281_34684687	NC_021165.1	Ca_kabuli_chr06	34684687	GG	AA	1946869749
SNP_P4_85282_34684722	NC_021165.1	Ca_kabuli_chr06	34684722	TT	AA	1946869751
SNP_P4_85283_34705335	NC_021165.1	Ca_kabuli_chr06	34705335	CC	TT	1946869753
SNP_P4_85285_34741513	NC_021165.1	Ca_kabuli_chr06	34741513	GG	AA	1946869755
SNP_P4_85287_34749827	NC_021165.1	Ca_kabuli_chr06	34749827	CC	TT	1946869757
SNP_P4_85288_34763089	NC_021165.1	Ca_kabuli_chr06	34763089	GG	AA	1946869759
SNP_P4_85289_34799476	NC_021165.1	Ca_kabuli_chr06	34799476	AA	GG	1946869761
SNP_P4_85290_34799512	NC_021165.1	Ca_kabuli_chr06	34799512	TT	GG	1946869763
SNP_P4_85291_34799518	NC_021165.1	Ca_kabuli_chr06	34799518	AA	GG	1946869765
SNP_P4_85292_34799527	NC_021165.1	Ca_kabuli_chr06	34799527	AA	GG	1946869767
SNP_P4_85293_34799538	NC_021165.1	Ca_kabuli_chr06	34799538	CC	TT	1946869770
SNP_P4_85294_34799564	NC_021165.1	Ca_kabuli_chr06	34799564	AA	GG	1946869772
SNP_P4_85295_34799938	NC_021165.1	Ca_kabuli_chr06	34799938	AA	GG	1946869774
SNP_P4_85296_34799954	NC_021165.1	Ca_kabuli_chr06	34799954	GG	AA	1946869776
SNP_P4_85297_34806679	NC_021165.1	Ca_kabuli_chr06	34806679	TT	CC	1946869778
SNP_P4_85298_34809769	NC_021165.1	Ca_kabuli_chr06	34809769	AA	TT	1946869780
SNP_P4_85299_34809802	NC_021165.1	Ca_kabuli_chr06	34809802	AA	TT	1946869782
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SNP_P4_85302_34810217	NC_021165.1	Ca_kabuli_chr06	34810217	GG	CC	1946869788
SNP_P4_85303_34814324	NC_021165.1	Ca_kabuli_chr06	34814324	AA	GG	1946869790
SNP_P4_85304_34814562	NC_021165.1	Ca_kabuli_chr06	34814562	TT	CC	1946869792
SNP_P4_85305_34814656	NC_021165.1	Ca_kabuli_chr06	34814656	AA	GG	1946869794
SNP_P4_85306_34814693	NC_021165.1	Ca_kabuli_chr06	34814693	TT	CC	1946869796
SNP_P4_85307_34814718	NC_021165.1	Ca_kabuli_chr06	34814718	GG	AA	1946869798
SNP_P4_85309_34816145	NC_021165.1	Ca_kabuli_chr06	34816145	CC	TT	1946869800
SNP_P4_85310_34816146	NC_021165.1	Ca_kabuli_chr06	34816146	GG	AA	1946869802
SNP_P4_85311_34820420	NC_021165.1	Ca_kabuli_chr06	34820420	AA	TT	1946869804
SNP_P4_85312_34820421	NC_021165.1	Ca_kabuli_chr06	34820421	CC	TT	1946869806
SNP_P4_85313_34820422	NC_021165.1	Ca_kabuli_chr06	34820422	AA	TT	1946869808
SNP_P4_85314_34820424	NC_021165.1	Ca_kabuli_chr06	34820424	TT	GG	1946869810
SNP_P4_85317_34836781	NC_021165.1	Ca_kabuli_chr06	34836781	CC	TT	1946869812
SNP_P4_85319_34847119	NC_021165.1	Ca_kabuli_chr06	34847119	GG	TT	1946869814
SNP_P4_85320_34851314	NC_021165.1	Ca_kabuli_chr06	34851314	TT	AA	1946869817

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_85323_34866397	NC_021165.1	Ca_kabuli_chr06	34866397	GG	TT	1946869821
SNP_P4_85324_34866406	NC_021165.1	Ca_kabuli_chr06	34866406	AA	TT	1946869823
SNP_P4_85325_34869402	NC_021165.1	Ca_kabuli_chr06	34869402	GG	TT	1946869825
SNP_P4_85326_34874329	NC_021165.1	Ca_kabuli_chr06	34874329	CC	TT	1946869827
SNP_P4_85328_34902107	NC_021165.1	Ca_kabuli_chr06	34902107	GG	AA	1946869829
SNP_P4_85329_34904070	NC_021165.1	Ca_kabuli_chr06	34904070	GG	TT	1946869831
SNP_P4_85330_34930662	NC_021165.1	Ca_kabuli_chr06	34930662	GG	AA	1946869833
SNP_P4_85331_34937572	NC_021165.1	Ca_kabuli_chr06	34937572	GG	TT	1946869835
SNP_P4_85332_34956426	NC_021165.1	Ca_kabuli_chr06	34956426	GG	AA	1946869837
SNP_P4_85333_34956571	NC_021165.1	Ca_kabuli_chr06	34956571	TT	AA	1946869839
SNP_P4_85334_34956580	NC_021165.1	Ca_kabuli_chr06	34956580	AA	GG	1946869841
SNP_P4_85335_34956596	NC_021165.1	Ca_kabuli_chr06	34956596	AA	TT	1946869843
SNP_P4_85336_34956600	NC_021165.1	Ca_kabuli_chr06	34956600	AA	TT	1946869845
SNP_P4_85337_34981114	NC_021165.1	Ca_kabuli_chr06	34981114	AA	GG	1946869847
SNP_P4_85339_34984008	NC_021165.1	Ca_kabuli_chr06	34984008	AA	TT	1946869850
SNP_P4_85340_35040209	NC_021165.1	Ca_kabuli_chr06	35040209	CC	TT	1946869852
SNP_P4_85342_35078686	NC_021165.1	Ca_kabuli_chr06	35078686	CC	TT	1946869854
SNP_P4_85344_35113806	NC_021165.1	Ca_kabuli_chr06	35113806	AA	CC	1946869856
SNP_P4_85345_35124647	NC_021165.1	Ca_kabuli_chr06	35124647	GG	AA	1946869858
SNP_P4_85346_35153944	NC_021165.1	Ca_kabuli_chr06	35153944	GG	CC	1946869860
SNP_P4_85347_35157910	NC_021165.1	Ca_kabuli_chr06	35157910	CC	TT	1946869862
SNP_P4_85348_35161466	NC_021165.1	Ca_kabuli_chr06	35161466	AA	GG	1946869867
SNP_P4_85349_35161598	NC_021165.1	Ca_kabuli_chr06	35161598	AA	CC	1946869874
SNP_P4_85350_35161619	NC_021165.1	Ca_kabuli_chr06	35161619	AA	GG	1946869876
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SNP_P4_85352_35161771	NC_021165.1	Ca_kabuli_chr06	35161771	TT	CC	1946869880
SNP_P4_85353_35161784	NC_021165.1	Ca_kabuli_chr06	35161784	CC	TT	1946869882
SNP_P4_85354_35161789	NC_021165.1	Ca_kabuli_chr06	35161789	AA	GG	1946869884
SNP_P4_85356_35161839	NC_021165.1	Ca_kabuli_chr06	35161839	GG	AA	1946869886
SNP_P4_85357_35161860	NC_021165.1	Ca_kabuli_chr06	35161860	TT	AA	1946869888
SNP_P4_85358_35161938	NC_021165.1	Ca_kabuli_chr06	35161938	AA	GG	1946869890
SNP_P4_85359_35161984	NC_021165.1	Ca_kabuli_chr06	35161984	AA	GG	1946869892
SNP_P4_85360_35161987	NC_021165.1	Ca_kabuli_chr06	35161987	AA	TT	1946869893
SNP_P4_85361_35162091	NC_021165.1	Ca_kabuli_chr06	35162091	TT	CC	1946869895
SNP_P4_85362_35167215	NC_021165.1	Ca_kabuli_chr06	35167215	AA	GG	1946869897
SNP_P4_85363_35167598	NC_021165.1	Ca_kabuli_chr06	35167598	AA	GG	1946869899
SNP_P4_85364_35168288	NC_021165.1	Ca_kabuli_chr06	35168288	TT	CC	1946869901
SNP_P4_85365_35168290	NC_021165.1	Ca_kabuli_chr06	35168290	AA	GG	1946869903
SNP_P4_85366_35168347	NC_021165.1	Ca_kabuli_chr06	35168347	AA	TT	1946869905
SNP_P4_85367_35169645	NC_021165.1	Ca_kabuli_chr06	35169645	TT	CC	1946869907
SNP_P4_85369_35177881	NC_021165.1	Ca_kabuli_chr06	35177881	AA	TT	1946869909

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_85370_35202671	NC_021165.1	Ca_kabuli_chr06	35202671	AA	TT	1946869911
SNP_P4_85371_35202685	NC_021165.1	Ca_kabuli_chr06	35202685	AA	GG	1946869913
SNP_P4_85372_35228466	NC_021165.1	Ca_kabuli_chr06	35228466	GG	TT	1946869915
SNP_P4_85373_35228506	NC_021165.1	Ca_kabuli_chr06	35228506	AA	TT	1946869917
SNP_P4_85374_35228507	NC_021165.1	Ca_kabuli_chr06	35228507	TT	GG	1946869919
SNP_P4_85375_35228508	NC_021165.1	Ca_kabuli_chr06	35228508	TT	AA	1946869922
SNP_P4_85377_35255101	NC_021165.1	Ca_kabuli_chr06	35255101	GG	AA	1946869924
SNP_P4_85378_35258067	NC_021165.1	Ca_kabuli_chr06	35258067	AA	GG	1946869926
SNP_P4_85379_35262126	NC_021165.1	Ca_kabuli_chr06	35262126	CC	GG	1946869928
SNP_P4_85380_35291741	NC_021165.1	Ca_kabuli_chr06	35291741	AA	GG	1946869930
SNP_P4_85381_35315382	NC_021165.1	Ca_kabuli_chr06	35315382	CC	TT	1946869932
SNP_P4_85382_35335161	NC_021165.1	Ca_kabuli_chr06	35335161	TT	CC	1946869933
SNP_P4_85383_35357598	NC_021165.1	Ca_kabuli_chr06	35357598	TT	CC	1946869935
SNP_P4_85384_35363637	NC_021165.1	Ca_kabuli_chr06	35363637	AA	GG	1946869937
SNP_P4_85385_35363652	NC_021165.1	Ca_kabuli_chr06	35363652	CC	TT	1946869939
SNP_P4_85386_35363698	NC_021165.1	Ca_kabuli_chr06	35363698	CC	TT	1946869941
SNP_P4_85387_35363719	NC_021165.1	Ca_kabuli_chr06	35363719	AA	TT	1946869943
SNP_P4_85388_35366799	NC_021165.1	Ca_kabuli_chr06	35366799	TT	AA	1946869945
SNP_P4_85389_35366809	NC_021165.1	Ca_kabuli_chr06	35366809	CC	TT	1946869947
SNP_P4_85390_35367038	NC_021165.1	Ca_kabuli_chr06	35367038	GG	TT	1946869949
SNP_P4_85391_35367039	NC_021165.1	Ca_kabuli_chr06	35367039	AA	TT	1946869950
SNP_P4_85392_35367084	NC_021165.1	Ca_kabuli_chr06	35367084	AA	CC	1946869952
SNP_P4_85393_35367106	NC_021165.1	Ca_kabuli_chr06	35367106	AA	GG	1946869954
SNP_P4_85394_35367113	NC_021165.1	Ca_kabuli_chr06	35367113	AA	CC	1946869956
SNP_P4_85395_35367215	NC_021165.1	Ca_kabuli_chr06	35367215	GG	TT	1946869958
SNP_P4_85396_35367219	NC_021165.1	Ca_kabuli_chr06	35367219	CC	TT	1946869960
SNP_P4_85397_35367226	NC_021165.1	Ca_kabuli_chr06	35367226	GG	TT	1946869962
SNP_P4_85398_35375537	NC_021165.1	Ca_kabuli_chr06	35375537	TT	CC	1946869964
SNP_P4_85399_35375554	NC_021165.1	Ca_kabuli_chr06	35375554	TT	GG	1946869966
SNP_P4_85400_35375561	NC_021165.1	Ca_kabuli_chr06	35375561	GG	AA	1946869968
SNP_P4_85401_35375564	NC_021165.1	Ca_kabuli_chr06	35375564	GG	AA	1946869970
SNP_P4_85402_35377542	NC_021165.1	Ca_kabuli_chr06	35377542	GG	AA	1946869972
SNP_P4_85403_35399112	NC_021165.1	Ca_kabuli_chr06	35399112	AA	GG	1946869974
SNP_P4_85406_35401375	NC_021165.1	Ca_kabuli_chr06	35401375	TT	CC	1946869976
SNP_P4_85407_35401496	NC_021165.1	Ca_kabuli_chr06	35401496	TT	CC	1946869978
SNP_P4_85408_35418429	NC_021165.1	Ca_kabuli_chr06	35418429	TT	AA	1946869980
SNP_P4_85409_35418449	NC_021165.1	Ca_kabuli_chr06	35418449	CC	AA	1946869981
SNP_P4_85410_35428886	NC_021165.1	Ca_kabuli_chr06	35428886	CC	TT	1946869983
SNP_P4_85411_35459248	NC_021165.1	Ca_kabuli_chr06	35459248	TT	CC	1946869985
SNP_P4_85412_35461423	NC_021165.1	Ca_kabuli_chr06	35461423	CC	GG	1946869987
SNP_P4_85413_35461535	NC_021165.1	Ca_kabuli_chr06	35461535	TT	GG	1946869989
SNP_P4_85414_35466442	NC_021165.1	Ca_kabuli_chr06	35466442	GG	AA	1946869991

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_85415_35467447	NC_021165.1	Ca_kabuli_chr06	35467447	TT	AA	1946869993
SNP_P4_85416_35477739	NC_021165.1	Ca_kabuli_chr06	35477739	AA	CC	1946869995
SNP_P4_85417_35488761	NC_021165.1	Ca_kabuli_chr06	35488761	TT	CC	1946869997
SNP_P4_85418_35488783	NC_021165.1	Ca_kabuli_chr06	35488783	TT	CC	1946869999
SNP_P4_85419_35512231	NC_021165.1	Ca_kabuli_chr06	35512231	TT	GG	1946870001
SNP_P4_85420_35561090	NC_021165.1	Ca_kabuli_chr06	35561090	TT	AA	1946870003
SNP_P4_85421_35573611	NC_021165.1	Ca_kabuli_chr06	35573611	AA	GG	1946870005
SNP_P4_85422_35594853	NC_021165.1	Ca_kabuli_chr06	35594853	AA	CC	1946870007
SNP_P4_85423_35596035	NC_021165.1	Ca_kabuli_chr06	35596035	GG	AA	1946870009
SNP_P4_85424_35596078	NC_021165.1	Ca_kabuli_chr06	35596078	TT	AA	1946870011
SNP_P4_85425_35608438	NC_021165.1	Ca_kabuli_chr06	35608438	TT	CC	1946870013
SNP_P4_85426_35608863	NC_021165.1	Ca_kabuli_chr06	35608863	CC	GG	1946870015
SNP_P4_85427_35608895	NC_021165.1	Ca_kabuli_chr06	35608895	TT	CC	1946870017
SNP_P4_85428_35608923	NC_021165.1	Ca_kabuli_chr06	35608923	CC	TT	1946870019
SNP_P4_85429_35611752	NC_021165.1	Ca_kabuli_chr06	35611752	GG	AA	1946870021
SNP_P4_85431_35689995	NC_021165.1	Ca_kabuli_chr06	35689995	TT	CC	1946870023
SNP_P4_85432_35696407	NC_021165.1	Ca_kabuli_chr06	35696407	TT	GG	1946870025
SNP_P4_85433_35703442	NC_021165.1	Ca_kabuli_chr06	35703442	AA	GG	1946870027
SNP_P4_85434_35704079	NC_021165.1	Ca_kabuli_chr06	35704079	TT	AA	1946870029
SNP_P4_85435_35704873	NC_021165.1	Ca_kabuli_chr06	35704873	AA	GG	1946870031
SNP_P4_85436_35704879	NC_021165.1	Ca_kabuli_chr06	35704879	TT	GG	1946870033
SNP_P4_85437_35704894	NC_021165.1	Ca_kabuli_chr06	35704894	AA	GG	1946870035
SNP_P4_85438_35704921	NC_021165.1	Ca_kabuli_chr06	35704921	TT	CC	1946870037
SNP_P4_85439_35704942	NC_021165.1	Ca_kabuli_chr06	35704942	AA	GG	1946870039
SNP_P4_85440_35704957	NC_021165.1	Ca_kabuli_chr06	35704957	AA	GG	1946870041
SNP_P4_85441_35704979	NC_021165.1	Ca_kabuli_chr06	35704979	TT	CC	1946870043
SNP_P4_85442_35704980	NC_021165.1	Ca_kabuli_chr06	35704980	GG	CC	1946870045
SNP_P4_85443_35705011	NC_021165.1	Ca_kabuli_chr06	35705011	CC	TT	1946870047
SNP_P4_85444_35705036	NC_021165.1	Ca_kabuli_chr06	35705036	GG	TT	1946870049
SNP_P4_85445_35705047	NC_021165.1	Ca_kabuli_chr06	35705047	TT	CC	1946870051
SNP_P4_85446_35705068	NC_021165.1	Ca_kabuli_chr06	35705068	AA	GG	1946870053
SNP_P4_85447_35705072	NC_021165.1	Ca_kabuli_chr06	35705072	TT	GG	1946870055
SNP_P4_85448_35705099	NC_021165.1	Ca_kabuli_chr06	35705099	TT	CC	1946870057
SNP_P4_85449_35705128	NC_021165.1	Ca_kabuli_chr06	35705128	TT	GG	1946870059
SNP_P4_85450_35705207	NC_021165.1	Ca_kabuli_chr06	35705207	TT	GG	1946870061
SNP_P4_85451_35705237	NC_021165.1	Ca_kabuli_chr06	35705237	GG	TT	1946870063
SNP_P4_85452_35705241	NC_021165.1	Ca_kabuli_chr06	35705241	TT	CC	1946870065
SNP_P4_85453_35705258	NC_021165.1	Ca_kabuli_chr06	35705258	TT	GG	1946870067
SNP_P4_85454_35705278	NC_021165.1	Ca_kabuli_chr06	35705278	AA	CC	1946870069
SNP_P4_85455_35705287	NC_021165.1	Ca_kabuli_chr06	35705287	CC	TT	1946870071
SNP_P4_85456_35705301	NC_021165.1	Ca_kabuli_chr06	35705301	TT	CC	1946870073
SNP_P4_85457_35705311	NC_021165.1	Ca_kabuli_chr06	35705311	GG	TT	1946870075

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_85459_35705336	NC_021165.1	Ca_kabuli_chr06	35705336	TT	CC	1946870079
SNP_P4_85460_35705390	NC_021165.1	Ca_kabuli_chr06	35705390	TT	CC	1946870081
SNP_P4_85461_35705491	NC_021165.1	Ca_kabuli_chr06	35705491	TT	CC	1946870083
SNP_P4_85462_35705521	NC_021165.1	Ca_kabuli_chr06	35705521	AA	GG	1946870085
SNP_P4_85463_35705611	NC_021165.1	Ca_kabuli_chr06	35705611	AA	GG	1946870086
SNP_P4_85464_35705843	NC_021165.1	Ca_kabuli_chr06	35705843	TT	AA	1946870087
SNP_P4_85465_35705866	NC_021165.1	Ca_kabuli_chr06	35705866	TT	GG	1946870088
SNP_P4_85466_35705873	NC_021165.1	Ca_kabuli_chr06	35705873	AA	CC	1946870089
SNP_P4_85467_35705878	NC_021165.1	Ca_kabuli_chr06	35705878	AA	GG	1946870090
SNP_P4_85469_35720009	NC_021165.1	Ca_kabuli_chr06	35720009	TT	GG	1946870092
SNP_P4_85470_35721482	NC_021165.1	Ca_kabuli_chr06	35721482	AA	GG	1946870094
SNP_P4_85471_35768800	NC_021165.1	Ca_kabuli_chr06	35768800	GG	AA	1946870096
SNP_P4_85472_35771310	NC_021165.1	Ca_kabuli_chr06	35771310	GG	AA	1946870098
SNP_P4_85473_35771457	NC_021165.1	Ca_kabuli_chr06	35771457	AA	CC	1946870100
SNP_P4_85474_35771466	NC_021165.1	Ca_kabuli_chr06	35771466	GG	CC	1946870102
SNP_P4_85475_35771851	NC_021165.1	Ca_kabuli_chr06	35771851	AA	GG	1946870104
SNP_P4_85476_35771882	NC_021165.1	Ca_kabuli_chr06	35771882	GG	AA	1946870106
SNP_P4_85477_35771934	NC_021165.1	Ca_kabuli_chr06	35771934	GG	AA	1946870108
SNP_P4_85479_35802110	NC_021165.1	Ca_kabuli_chr06	35802110	GG	AA	1946870110
SNP_P4_85480_35802500	NC_021165.1	Ca_kabuli_chr06	35802500	TT	CC	1946870112
SNP_P4_85481_35802502	NC_021165.1	Ca_kabuli_chr06	35802502	GG	AA	1946870114
SNP_P4_85483_35803368	NC_021165.1	Ca_kabuli_chr06	35803368	GG	AA	1946870116
SNP_P4_85484_35803559	NC_021165.1	Ca_kabuli_chr06	35803559	AA	GG	1946870118
SNP_P4_85485_35805862	NC_021165.1	Ca_kabuli_chr06	35805862	TT	CC	1946870120
SNP_P4_85486_35806888	NC_021165.1	Ca_kabuli_chr06	35806888	AA	GG	1946870122
SNP_P4_85487_35807315	NC_021165.1	Ca_kabuli_chr06	35807315	GG	AA	1946870124
SNP_P4_85488_35809324	NC_021165.1	Ca_kabuli_chr06	35809324	AA	GG	1946870126
SNP_P4_85489_35809507	NC_021165.1	Ca_kabuli_chr06	35809507	CC	TT	1946870128
SNP_P4_85491_35810795	NC_021165.1	Ca_kabuli_chr06	35810795	TT	CC	1946870130
SNP_P4_85492_35811042	NC_021165.1	Ca_kabuli_chr06	35811042	TT	CC	1946870132
SNP_P4_85493_35811506	NC_021165.1	Ca_kabuli_chr06	35811506	TT	GG	1946870134
SNP_P4_85494_35811645	NC_021165.1	Ca_kabuli_chr06	35811645	AA	CC	1946870136
SNP_P4_85495_35811859	NC_021165.1	Ca_kabuli_chr06	35811859	CC	TT	1946870138
SNP_P4_85496_35812804	NC_021165.1	Ca_kabuli_chr06	35812804	AA	GG	1946870140
SNP_P4_85497_35812913	NC_021165.1	Ca_kabuli_chr06	35812913	GG	TT	1946870142
SNP_P4_85498_35812959	NC_021165.1	Ca_kabuli_chr06	35812959	AA	GG	1946870144
SNP_P4_85499_35813310	NC_021165.1	Ca_kabuli_chr06	35813310	GG	AA	1946870146
SNP_P4_85500_35813316	NC_021165.1	Ca_kabuli_chr06	35813316	GG	AA	1946870148
SNP_P4_85502_35817077	NC_021165.1	Ca_kabuli_chr06	35817077	AA	CC	1946870150
SNP_P4_85503_35818704	NC_021165.1	Ca_kabuli_chr06	35818704	AA	TT	1946870152
SNP_P4_85504_35818709	NC_021165.1	Ca_kabuli_chr06	35818709	AA	GG	1946870154

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_85506_35820727	NC_021165.1	Ca_kabuli_chr06	35820727	AA	GG	1946870158
SNP_P4_85507_35821704	NC_021165.1	Ca_kabuli_chr06	35821704	CC	TT	1946870160
SNP_P4_85508_35831572	NC_021165.1	Ca_kabuli_chr06	35831572	AA	TT	1946870162
SNP_P4_85509_35831590	NC_021165.1	Ca_kabuli_chr06	35831590	AA	CC	1946870164
SNP_P4_85510_35831683	NC_021165.1	Ca_kabuli_chr06	35831683	GG	TT	1946870166
SNP_P4_85511_35831885	NC_021165.1	Ca_kabuli_chr06	35831885	GG	AA	1946870168
SNP_P4_85512_35831916	NC_021165.1	Ca_kabuli_chr06	35831916	GG	CC	1946870170
SNP_P4_85513_35831924	NC_021165.1	Ca_kabuli_chr06	35831924	AA	TT	1946870172
SNP_P4_85514_35831939	NC_021165.1	Ca_kabuli_chr06	35831939	AA	GG	1946870174
SNP_P4_85515_35831976	NC_021165.1	Ca_kabuli_chr06	35831976	TT	CC	1946870176
SNP_P4_85517_35867814	NC_021165.1	Ca_kabuli_chr06	35867814	AA	TT	1946870178
SNP_P4_85518_35922038	NC_021165.1	Ca_kabuli_chr06	35922038	AA	GG	1946870180
SNP_P4_85519_35922140	NC_021165.1	Ca_kabuli_chr06	35922140	AA	GG	1946870182
SNP_P4_85520_35922358	NC_021165.1	Ca_kabuli_chr06	35922358	AA	CC	1946870184
SNP_P4_85522_35922435	NC_021165.1	Ca_kabuli_chr06	35922435	AA	GG	1946870186
SNP_P4_85523_35922438	NC_021165.1	Ca_kabuli_chr06	35922438	AA	GG	1946870188
SNP_P4_85524_35922450	NC_021165.1	Ca_kabuli_chr06	35922450	AA	GG	1946870190
SNP_P4_85525_35922506	NC_021165.1	Ca_kabuli_chr06	35922506	CC	AA	1946870192
SNP_P4_85526_35922516	NC_021165.1	Ca_kabuli_chr06	35922516	TT	GG	1946870194
SNP_P4_85527_35954475	NC_021165.1	Ca_kabuli_chr06	35954475	TT	AA	1946870196
SNP_P4_85528_35979087	NC_021165.1	Ca_kabuli_chr06	35979087	TT	AA	1946870198
SNP_P4_85529_35980756	NC_021165.1	Ca_kabuli_chr06	35980756	CC	TT	1946870200
SNP_P4_85530_35998531	NC_021165.1	Ca_kabuli_chr06	35998531	TT	CC	1946870202
SNP_P4_85531_35998757	NC_021165.1	Ca_kabuli_chr06	35998757	CC	AA	1946870204
SNP_P4_85532_35998785	NC_021165.1	Ca_kabuli_chr06	35998785	TT	AA	1946870206
SNP_P4_85533_35998985	NC_021165.1	Ca_kabuli_chr06	35998985	GG	TT	1946870208
SNP_P4_85534_35999053	NC_021165.1	Ca_kabuli_chr06	35999053	GG	CC	1946870210
SNP_P4_85535_35999338	NC_021165.1	Ca_kabuli_chr06	35999338	TT	CC	1946870212
SNP_P4_85536_35999509	NC_021165.1	Ca_kabuli_chr06	35999509	GG	AA	1946870213
SNP_P4_85537_36000241	NC_021165.1	Ca_kabuli_chr06	36000241	TT	AA	1946870215
SNP_P4_85538_36000807	NC_021165.1	Ca_kabuli_chr06	36000807	AA	GG	1946870217
SNP_P4_85539_36005814	NC_021165.1	Ca_kabuli_chr06	36005814	AA	TT	1946870219
SNP_P4_85540_36029339	NC_021165.1	Ca_kabuli_chr06	36029339	TT	GG	1946870221
SNP_P4_85542_36030309	NC_021165.1	Ca_kabuli_chr06	36030309	TT	CC	1946870223
SNP_P4_85543_36032729	NC_021165.1	Ca_kabuli_chr06	36032729	AA	TT	1946870225
SNP_P4_85544_36039320	NC_021165.1	Ca_kabuli_chr06	36039320	AA	CC	1946870227
SNP_P4_85545_36039680	NC_021165.1	Ca_kabuli_chr06	36039680	AA	CC	1946870229
SNP_P4_85546_36061265	NC_021165.1	Ca_kabuli_chr06	36061265	AA	GG	1946870231
SNP_P4_85547_36061276	NC_021165.1	Ca_kabuli_chr06	36061276	GG	AA	1946870233
SNP_P4_85548_36062115	NC_021165.1	Ca_kabuli_chr06	36062115	TT	GG	1946870235
SNP_P4_85549_36062128	NC_021165.1	Ca_kabuli_chr06	36062128	CC	TT	1946870237

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_85551_36062149	NC_021165.1	Ca_kabuli_chr06	36062149	TT	CC	1946870241
SNP_P4_85552_36067557	NC_021165.1	Ca_kabuli_chr06	36067557	CC	TT	1946870243
SNP_P4_85553_36067565	NC_021165.1	Ca_kabuli_chr06	36067565	AA	GG	1946870245
SNP_P4_85555_36070365	NC_021165.1	Ca_kabuli_chr06	36070365	AA	GG	1946870246
SNP_P4_85556_36070372	NC_021165.1	Ca_kabuli_chr06	36070372	TT	CC	1946870248
SNP_P4_85557_36070496	NC_021165.1	Ca_kabuli_chr06	36070496	GG	AA	1946870250
SNP_P4_85558_36078345	NC_021165.1	Ca_kabuli_chr06	36078345	CC	TT	1946870252
SNP_P4_85559_36083571	NC_021165.1	Ca_kabuli_chr06	36083571	TT	GG	1946870254
SNP_P4_85560_36083697	NC_021165.1	Ca_kabuli_chr06	36083697	TT	CC	1946870256
SNP_P4_85561_36083781	NC_021165.1	Ca_kabuli_chr06	36083781	TT	CC	1946870258
SNP_P4_85562_36083811	NC_021165.1	Ca_kabuli_chr06	36083811	GG	AA	1946870260
SNP_P4_85563_36083851	NC_021165.1	Ca_kabuli_chr06	36083851	TT	GG	1946870262
SNP_P4_85564_36083853	NC_021165.1	Ca_kabuli_chr06	36083853	GG	AA	1946870264
SNP_P4_85565_36083870	NC_021165.1	Ca_kabuli_chr06	36083870	TT	CC	1946870266
SNP_P4_85566_36083872	NC_021165.1	Ca_kabuli_chr06	36083872	AA	GG	1946870268
SNP_P4_85567_36086881	NC_021165.1	Ca_kabuli_chr06	36086881	GG	TT	1946870270
SNP_P4_85568_36124333	NC_021165.1	Ca_kabuli_chr06	36124333	GG	CC	1946870272
SNP_P4_85570_36176577	NC_021165.1	Ca_kabuli_chr06	36176577	GG	AA	1946870274
SNP_P4_85572_36230198	NC_021165.1	Ca_kabuli_chr06	36230198	AA	GG	1946870276
SNP_P4_85573_36235186	NC_021165.1	Ca_kabuli_chr06	36235186	GG	AA	1946870278
SNP_P4_85575_36246507	NC_021165.1	Ca_kabuli_chr06	36246507	GG	AA	1946870280
SNP_P4_85576_36246516	NC_021165.1	Ca_kabuli_chr06	36246516	AA	GG	1946870282
SNP_P4_85577_36246544	NC_021165.1	Ca_kabuli_chr06	36246544	TT	CC	1946870284
SNP_P4_85578_36339307	NC_021165.1	Ca_kabuli_chr06	36339307	AA	GG	1946870286
SNP_P4_85579_36346232	NC_021165.1	Ca_kabuli_chr06	36346232	CC	TT	1946870288
SNP_P4_85580_36377599	NC_021165.1	Ca_kabuli_chr06	36377599	AA	CC	1946870290
SNP_P4_85581_36389233	NC_021165.1	Ca_kabuli_chr06	36389233	GG	AA	1946870292
SNP_P4_85582_36412269	NC_021165.1	Ca_kabuli_chr06	36412269	AA	GG	1946870294
SNP_P4_85583_36412464	NC_021165.1	Ca_kabuli_chr06	36412464	GG	AA	1946870296
SNP_P4_85584_36412545	NC_021165.1	Ca_kabuli_chr06	36412545	CC	TT	1946870298
SNP_P4_85585_36412559	NC_021165.1	Ca_kabuli_chr06	36412559	TT	CC	1946870300
SNP_P4_85586_36412621	NC_021165.1	Ca_kabuli_chr06	36412621	GG	AA	1946870302
SNP_P4_85587_36412623	NC_021165.1	Ca_kabuli_chr06	36412623	AA	GG	1946870304
SNP_P4_85588_36412624	NC_021165.1	Ca_kabuli_chr06	36412624	AA	GG	1946870306
SNP_P4_85589_36412654	NC_021165.1	Ca_kabuli_chr06	36412654	TT	AA	1946870307
SNP_P4_85590_36412664	NC_021165.1	Ca_kabuli_chr06	36412664	GG	AA	1946870309
SNP_P4_85591_36450470	NC_021165.1	Ca_kabuli_chr06	36450470	TT	CC	1946870311
SNP_P4_85592_36450508	NC_021165.1	Ca_kabuli_chr06	36450508	GG	AA	1946870313
SNP_P4_85593_36450821	NC_021165.1	Ca_kabuli_chr06	36450821	AA	GG	1946870315
SNP_P4_85594_36468880	NC_021165.1	Ca_kabuli_chr06	36468880	TT	CC	1946870317
SNP_P4_85595_36468902	NC_021165.1	Ca_kabuli_chr06	36468902	CC	GG	1946870319

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_85597_36487675	NC_021165.1	Ca_kabuli_chr06	36487675	AA	GG	1946870323
SNP_P4_85598_36487986	NC_021165.1	Ca_kabuli_chr06	36487986	CC	AA	1946870325
SNP_P4_85599_36487990	NC_021165.1	Ca_kabuli_chr06	36487990	CC	TT	1946870327
SNP_P4_85600_36488015	NC_021165.1	Ca_kabuli_chr06	36488015	AA	CC	1946870329
SNP_P4_85601_36488091	NC_021165.1	Ca_kabuli_chr06	36488091	CC	TT	1946870331
SNP_P4_85602_36488097	NC_021165.1	Ca_kabuli_chr06	36488097	AA	GG	1946870333
SNP_P4_85603_36488115	NC_021165.1	Ca_kabuli_chr06	36488115	GG	AA	1946870334
SNP_P4_85604_36490704	NC_021165.1	Ca_kabuli_chr06	36490704	AA	TT	1946870336
SNP_P4_85605_36490723	NC_021165.1	Ca_kabuli_chr06	36490723	AA	TT	1946870338
SNP_P4_85606_36490737	NC_021165.1	Ca_kabuli_chr06	36490737	CC	TT	1946870340
SNP_P4_85607_36490789	NC_021165.1	Ca_kabuli_chr06	36490789	GG	AA	1946870342
SNP_P4_85608_36491192	NC_021165.1	Ca_kabuli_chr06	36491192	TT	CC	1946870344
SNP_P4_85609_36508854	NC_021165.1	Ca_kabuli_chr06	36508854	GG	AA	1946870346
SNP_P4_85610_36510588	NC_021165.1	Ca_kabuli_chr06	36510588	AA	GG	1946870348
SNP_P4_85611_36518125	NC_021165.1	Ca_kabuli_chr06	36518125	GG	AA	1946870350
SNP_P4_85612_36518146	NC_021165.1	Ca_kabuli_chr06	36518146	CC	TT	1946870352
SNP_P4_85613_36518463	NC_021165.1	Ca_kabuli_chr06	36518463	TT	CC	1946870354
SNP_P4_85614_36518493	NC_021165.1	Ca_kabuli_chr06	36518493	GG	AA	1946870356
SNP_P4_85615_36518513	NC_021165.1	Ca_kabuli_chr06	36518513	CC	TT	1946870358
SNP_P4_85616_36518519	NC_021165.1	Ca_kabuli_chr06	36518519	TT	CC	1946870360
SNP_P4_85617_36520424	NC_021165.1	Ca_kabuli_chr06	36520424	GG	TT	1946870362
SNP_P4_85618_36520438	NC_021165.1	Ca_kabuli_chr06	36520438	CC	AA	1946870365
SNP_P4_85619_36555464	NC_021165.1	Ca_kabuli_chr06	36555464	TT	CC	1946870367
SNP_P4_85620_36559548	NC_021165.1	Ca_kabuli_chr06	36559548	CC	AA	1946870369
SNP_P4_85621_36559557	NC_021165.1	Ca_kabuli_chr06	36559557	TT	AA	1946870371
SNP_P4_85623_36617177	NC_021165.1	Ca_kabuli_chr06	36617177	AA	GG	1946870373
SNP_P4_85624_36642628	NC_021165.1	Ca_kabuli_chr06	36642628	TT	GG	1946870375
SNP_P4_85625_36642676	NC_021165.1	Ca_kabuli_chr06	36642676	AA	GG	1946870377
SNP_P4_85626_36644363	NC_021165.1	Ca_kabuli_chr06	36644363	TT	CC	1946870379
SNP_P4_85628_36654190	NC_021165.1	Ca_kabuli_chr06	36654190	TT	AA	1946870381
SNP_P4_85629_36657956	NC_021165.1	Ca_kabuli_chr06	36657956	TT	AA	1946870383
SNP_P4_85630_36659167	NC_021165.1	Ca_kabuli_chr06	36659167	TT	CC	1946870385
SNP_P4_85631_36659437	NC_021165.1	Ca_kabuli_chr06	36659437	TT	GG	1946870387
SNP_P4_85632_36659448	NC_021165.1	Ca_kabuli_chr06	36659448	TT	CC	1946870389
SNP_P4_85633_36670369	NC_021165.1	Ca_kabuli_chr06	36670369	AA	TT	1946870391
SNP_P4_85634_36684461	NC_021165.1	Ca_kabuli_chr06	36684461	GG	TT	1946870393
SNP_P4_85635_36688860	NC_021165.1	Ca_kabuli_chr06	36688860	CC	TT	1946870395
SNP_P4_85636_36716619	NC_021165.1	Ca_kabuli_chr06	36716619	TT	AA	1946870397
SNP_P4_85637_36716620	NC_021165.1	Ca_kabuli_chr06	36716620	TT	AA	1946870399
SNP_P4_85638_36721146	NC_021165.1	Ca_kabuli_chr06	36721146	CC	TT	1946870401
SNP_P4_85639_36721148	NC_021165.1	Ca_kabuli_chr06	36721148	TT	GG	1946870403

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_85642_36721179	NC_021165.1	Ca_kabuli_chr06	36721179	CC	TT	1946870409
SNP_P4_85645_36722678	NC_021165.1	Ca_kabuli_chr06	36722678	AA	TT	1946870411
SNP_P4_85646_36723493	NC_021165.1	Ca_kabuli_chr06	36723493	CC	TT	1946870413
SNP_P4_85647_36773762	NC_021165.1	Ca_kabuli_chr06	36773762	AA	GG	1946870415
SNP_P4_85648_36773776	NC_021165.1	Ca_kabuli_chr06	36773776	AA	GG	1946870417
SNP_P4_85649_36773782	NC_021165.1	Ca_kabuli_chr06	36773782	AA	GG	1946870419
SNP_P4_85650_36773804	NC_021165.1	Ca_kabuli_chr06	36773804	TT	GG	1946870421
SNP_P4_85651_36773996	NC_021165.1	Ca_kabuli_chr06	36773996	AA	TT	1946870423
SNP_P4_85652_36773998	NC_021165.1	Ca_kabuli_chr06	36773998	AA	TT	1946870425
SNP_P4_85653_36774113	NC_021165.1	Ca_kabuli_chr06	36774113	AA	GG	1946870427
SNP_P4_85654_36783509	NC_021165.1	Ca_kabuli_chr06	36783509	AA	GG	1946870429
SNP_P4_85655_36783539	NC_021165.1	Ca_kabuli_chr06	36783539	TT	CC	1946870431
SNP_P4_85656_36783552	NC_021165.1	Ca_kabuli_chr06	36783552	TT	CC	1946870433
SNP_P4_85657_36783745	NC_021165.1	Ca_kabuli_chr06	36783745	AA	GG	1946870435
SNP_P4_85658_36783746	NC_021165.1	Ca_kabuli_chr06	36783746	TT	CC	1946870437
SNP_P4_85659_36783751	NC_021165.1	Ca_kabuli_chr06	36783751	AA	TT	1946870439
SNP_P4_85660_36783758	NC_021165.1	Ca_kabuli_chr06	36783758	CC	TT	1946870441
SNP_P4_85661_36784116	NC_021165.1	Ca_kabuli_chr06	36784116	CC	TT	1946870443
SNP_P4_85662_36784505	NC_021165.1	Ca_kabuli_chr06	36784505	CC	TT	1946870445
SNP_P4_85663_36784515	NC_021165.1	Ca_kabuli_chr06	36784515	GG	AA	1946870447
SNP_P4_85664_36784555	NC_021165.1	Ca_kabuli_chr06	36784555	GG	TT	1946870449
SNP_P4_85665_36786095	NC_021165.1	Ca_kabuli_chr06	36786095	TT	GG	1946870451
SNP_P4_85666_36786138	NC_021165.1	Ca_kabuli_chr06	36786138	AA	TT	1946870453
SNP_P4_85667_36786160	NC_021165.1	Ca_kabuli_chr06	36786160	TT	CC	1946870455
SNP_P4_85668_36786161	NC_021165.1	Ca_kabuli_chr06	36786161	AA	GG	1946870457
SNP_P4_85669_36786173	NC_021165.1	Ca_kabuli_chr06	36786173	CC	AA	1946870459
SNP_P4_85670_36786175	NC_021165.1	Ca_kabuli_chr06	36786175	GG	TT	1946870461
SNP_P4_85671_36786212	NC_021165.1	Ca_kabuli_chr06	36786212	AA	GG	1946870463
SNP_P4_85672_36786225	NC_021165.1	Ca_kabuli_chr06	36786225	TT	CC	1946870465
SNP_P4_85673_36786325	NC_021165.1	Ca_kabuli_chr06	36786325	CC	TT	1946870467
SNP_P4_85674_36786551	NC_021165.1	Ca_kabuli_chr06	36786551	GG	AA	1946870469
SNP_P4_85675_36787315	NC_021165.1	Ca_kabuli_chr06	36787315	TT	CC	1946870471
SNP_P4_85676_36787370	NC_021165.1	Ca_kabuli_chr06	36787370	TT	CC	1946870473
SNP_P4_85677_36787539	NC_021165.1	Ca_kabuli_chr06	36787539	AA	CC	1946870475
SNP_P4_85678_36787603	NC_021165.1	Ca_kabuli_chr06	36787603	TT	CC	1946870477
SNP_P4_85679_36787641	NC_021165.1	Ca_kabuli_chr06	36787641	CC	AA	1946870479
SNP_P4_85680_36787802	NC_021165.1	Ca_kabuli_chr06	36787802	TT	CC	1946870481
SNP_P4_85681_36789577	NC_021165.1	Ca_kabuli_chr06	36789577	AA	GG	1946870483
SNP_P4_85683_36789658	NC_021165.1	Ca_kabuli_chr06	36789658	TT	CC	1946870485
SNP_P4_85684_36789720	NC_021165.1	Ca_kabuli_chr06	36789720	TT	CC	1946870487

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_85686_36790123	NC_021165.1	Ca_kabuli_chr06	36790123	TT	CC	1946870491
SNP_P4_85687_36845477	NC_021165.1	Ca_kabuli_chr06	36845477	TT	CC	1946870493
SNP_P4_85688_36890716	NC_021165.1	Ca_kabuli_chr06	36890716	TT	GG	1946870495
SNP_P4_85689_36890718	NC_021165.1	Ca_kabuli_chr06	36890718	CC	TT	1946870497
SNP_P4_85690_36890734	NC_021165.1	Ca_kabuli_chr06	36890734	AA	TT	1946870499
SNP_P4_85691_36892867	NC_021165.1	Ca_kabuli_chr06	36892867	GG	AA	1946870501
SNP_P4_85692_36892913	NC_021165.1	Ca_kabuli_chr06	36892913	CC	TT	1946870503
SNP_P4_85693_36892927	NC_021165.1	Ca_kabuli_chr06	36892927	AA	TT	1946870505
SNP_P4_85694_36893091	NC_021165.1	Ca_kabuli_chr06	36893091	GG	AA	1946870507
SNP_P4_85695_36893113	NC_021165.1	Ca_kabuli_chr06	36893113	CC	AA	1946870509
SNP_P4_85696_36893139	NC_021165.1	Ca_kabuli_chr06	36893139	AA	CC	1946870511
SNP_P4_85697_36893140	NC_021165.1	Ca_kabuli_chr06	36893140	CC	AA	1946870513
SNP_P4_85698_36893148	NC_021165.1	Ca_kabuli_chr06	36893148	TT	AA	1946870515
SNP_P4_85699_36893210	NC_021165.1	Ca_kabuli_chr06	36893210	TT	CC	1946870517
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SNP_P4_85701_36893286	NC_021165.1	Ca_kabuli_chr06	36893286	TT	AA	1946870521
SNP_P4_85702_36893293	NC_021165.1	Ca_kabuli_chr06	36893293	CC	AA	1946870523
SNP_P4_85704_36893317	NC_021165.1	Ca_kabuli_chr06	36893317	TT	AA	1946870525
SNP_P4_85705_36897577	NC_021165.1	Ca_kabuli_chr06	36897577	AA	GG	1946870527
SNP_P4_85706_36897588	NC_021165.1	Ca_kabuli_chr06	36897588	CC	TT	1946870529
SNP_P4_85708_36930324	NC_021165.1	Ca_kabuli_chr06	36930324	TT	CC	1946870531
SNP_P4_85709_36951517	NC_021165.1	Ca_kabuli_chr06	36951517	TT	GG	1946870533
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SNP_P4_85711_36956911	NC_021165.1	Ca_kabuli_chr06	36956911	CC	TT	1946870537
SNP_P4_85712_36981602	NC_021165.1	Ca_kabuli_chr06	36981602	TT	CC	1946870539
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SNP_P4_85714_37028141	NC_021165.1	Ca_kabuli_chr06	37028141	AA	GG	1946870543
SNP_P4_85715_37028160	NC_021165.1	Ca_kabuli_chr06	37028160	AA	TT	1946870545
SNP_P4_85716_37028197	NC_021165.1	Ca_kabuli_chr06	37028197	CC	TT	1946870547
SNP_P4_85717_37028232	NC_021165.1	Ca_kabuli_chr06	37028232	TT	CC	1946870549
SNP_P4_85719_37115598	NC_021165.1	Ca_kabuli_chr06	37115598	CC	TT	1946870551
SNP_P4_85720_37172214	NC_021165.1	Ca_kabuli_chr06	37172214	CC	TT	1946870553
SNP_P4_85721_37172230	NC_021165.1	Ca_kabuli_chr06	37172230	AA	TT	1946870555
SNP_P4_85722_37172244	NC_021165.1	Ca_kabuli_chr06	37172244	TT	CC	1946870557
SNP_P4_85723_37172262	NC_021165.1	Ca_kabuli_chr06	37172262	GG	AA	1946870559
SNP_P4_85724_37172342	NC_021165.1	Ca_kabuli_chr06	37172342	GG	AA	1946870561
SNP_P4_85725_37172354	NC_021165.1	Ca_kabuli_chr06	37172354	CC	TT	1946870563
SNP_P4_85726_37172615	NC_021165.1	Ca_kabuli_chr06	37172615	CC	AA	1946870565
SNP_P4_85727_37172648	NC_021165.1	Ca_kabuli_chr06	37172648	AA	GG	1946870567
SNP_P4_85728_37172881	NC_021165.1	Ca_kabuli_chr06	37172881	AA	GG	1946870569
SNP_P4_85729_37197708	NC_021165.1	Ca_kabuli_chr06	37197708	CC	TT	1946870571

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_85733_37213015	NC_021165.1	Ca_kabuli_chr06	37213015	AA	GG	1946870577
SNP_P4_85734_37221504	NC_021165.1	Ca_kabuli_chr06	37221504	GG	AA	1946870579
SNP_P4_85735_37221510	NC_021165.1	Ca_kabuli_chr06	37221510	TT	CC	1946870581
SNP_P4_85736_37221579	NC_021165.1	Ca_kabuli_chr06	37221579	TT	CC	1946870583
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SNP_P4_85739_37221830	NC_021165.1	Ca_kabuli_chr06	37221830	TT	CC	1946870589
SNP_P4_85740_37221833	NC_021165.1	Ca_kabuli_chr06	37221833	AA	GG	1946870591
SNP_P4_85741_37221845	NC_021165.1	Ca_kabuli_chr06	37221845	AA	GG	1946870593
SNP_P4_85742_37221862	NC_021165.1	Ca_kabuli_chr06	37221862	TT	CC	1946870595
SNP_P4_85743_37221880	NC_021165.1	Ca_kabuli_chr06	37221880	AA	GG	1946870597
SNP_P4_85745_37221984	NC_021165.1	Ca_kabuli_chr06	37221984	TT	GG	1946870599
SNP_P4_85746_37221995	NC_021165.1	Ca_kabuli_chr06	37221995	AA	GG	1946870601
SNP_P4_85747_37222026	NC_021165.1	Ca_kabuli_chr06	37222026	TT	CC	1946870603
SNP_P4_85748_37222239	NC_021165.1	Ca_kabuli_chr06	37222239	TT	CC	1946870605
SNP_P4_85749_37229747	NC_021165.1	Ca_kabuli_chr06	37229747	TT	AA	1946870607
SNP_P4_85750_37232313	NC_021165.1	Ca_kabuli_chr06	37232313	GG	TT	1946870609
SNP_P4_85751_37246348	NC_021165.1	Ca_kabuli_chr06	37246348	AA	TT	1946870611
SNP_P4_85752_37283598	NC_021165.1	Ca_kabuli_chr06	37283598	CC	TT	1946870613
SNP_P4_85753_37283635	NC_021165.1	Ca_kabuli_chr06	37283635	CC	GG	1946870615
SNP_P4_85754_37284152	NC_021165.1	Ca_kabuli_chr06	37284152	GG	AA	1946870617
SNP_P4_85755_37295650	NC_021165.1	Ca_kabuli_chr06	37295650	TT	CC	1946870619
SNP_P4_85756_37295734	NC_021165.1	Ca_kabuli_chr06	37295734	GG	TT	1946870621
SNP_P4_85757_37295904	NC_021165.1	Ca_kabuli_chr06	37295904	AA	GG	1946870623
SNP_P4_85758_37295911	NC_021165.1	Ca_kabuli_chr06	37295911	TT	CC	1946870625
SNP_P4_85759_37295927	NC_021165.1	Ca_kabuli_chr06	37295927	AA	GG	1946870627
SNP_P4_85760_37295935	NC_021165.1	Ca_kabuli_chr06	37295935	AA	GG	1946870629
SNP_P4_85761_37297513	NC_021165.1	Ca_kabuli_chr06	37297513	CC	TT	1946870631
SNP_P4_85762_37297521	NC_021165.1	Ca_kabuli_chr06	37297521	TT	CC	1946870633
SNP_P4_85763_37297549	NC_021165.1	Ca_kabuli_chr06	37297549	TT	AA	1946870635
SNP_P4_85764_37297651	NC_021165.1	Ca_kabuli_chr06	37297651	TT	CC	1946870637
SNP_P4_85765_37297667	NC_021165.1	Ca_kabuli_chr06	37297667	CC	TT	1946870639
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SNP_P4_85767_37315997	NC_021165.1	Ca_kabuli_chr06	37315997	GG	CC	1946870643
SNP_P4_85768_37316134	NC_021165.1	Ca_kabuli_chr06	37316134	CC	AA	1946870645
SNP_P4_85769_37354310	NC_021165.1	Ca_kabuli_chr06	37354310	TT	CC	1946870647
SNP_P4_85770_37360211	NC_021165.1	Ca_kabuli_chr06	37360211	CC	TT	1946870649
SNP_P4_85771_37403550	NC_021165.1	Ca_kabuli_chr06	37403550	AA	GG	1946870651
SNP_P4_85772_37452986	NC_021165.1	Ca_kabuli_chr06	37452986	GG	TT	1946870653
SNP_P4_85773_37453018	NC_021165.1	Ca_kabuli_chr06	37453018	AA	GG	1946870655

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_85775_37453405	NC_021165.1	Ca_kabuli_chr06	37453405	TT	CC	1946870659
SNP_P4_85776_37453436	NC_021165.1	Ca_kabuli_chr06	37453436	TT	CC	1946870661
SNP_P4_85777_37453464	NC_021165.1	Ca_kabuli_chr06	37453464	AA	TT	1946870663
SNP_P4_85778_37453472	NC_021165.1	Ca_kabuli_chr06	37453472	TT	CC	1946870665
SNP_P4_85779_37453481	NC_021165.1	Ca_kabuli_chr06	37453481	TT	GG	1946870667
SNP_P4_85780_37453492	NC_021165.1	Ca_kabuli_chr06	37453492	CC	AA	1946870669
SNP_P4_85781_37453518	NC_021165.1	Ca_kabuli_chr06	37453518	TT	CC	1946870671
SNP_P4_85782_37453565	NC_021165.1	Ca_kabuli_chr06	37453565	CC	GG	1946870673
SNP_P4_85783_37453667	NC_021165.1	Ca_kabuli_chr06	37453667	TT	GG	1946870675
SNP_P4_85784_37453674	NC_021165.1	Ca_kabuli_chr06	37453674	AA	GG	1946870677
SNP_P4_85785_37453704	NC_021165.1	Ca_kabuli_chr06	37453704	AA	CC	1946870679
SNP_P4_85786_37453797	NC_021165.1	Ca_kabuli_chr06	37453797	AA	GG	1946870681
SNP_P4_85787_37453864	NC_021165.1	Ca_kabuli_chr06	37453864	TT	CC	1946870683
SNP_P4_85788_37453871	NC_021165.1	Ca_kabuli_chr06	37453871	AA	GG	1946870685
SNP_P4_85789_37468419	NC_021165.1	Ca_kabuli_chr06	37468419	CC	TT	1946870686
SNP_P4_85790_37496318	NC_021165.1	Ca_kabuli_chr06	37496318	GG	AA	1946870688
SNP_P4_85791_37523402	NC_021165.1	Ca_kabuli_chr06	37523402	GG	TT	1946870690
SNP_P4_85792_37535115	NC_021165.1	Ca_kabuli_chr06	37535115	AA	GG	1946870692
SNP_P4_85793_37545724	NC_021165.1	Ca_kabuli_chr06	37545724	TT	AA	1946870694
SNP_P4_85794_37560609	NC_021165.1	Ca_kabuli_chr06	37560609	AA	CC	1946870696
SNP_P4_85795_37560783	NC_021165.1	Ca_kabuli_chr06	37560783	TT	CC	1946870698
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SNP_P4_85797_37611075	NC_021165.1	Ca_kabuli_chr06	37611075	CC	TT	1946870702
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SNP_P4_85800_37613194	NC_021165.1	Ca_kabuli_chr06	37613194	AA	CC	1946870708
SNP_P4_85801_37613195	NC_021165.1	Ca_kabuli_chr06	37613195	AA	GG	1946870710
SNP_P4_85802_37617400	NC_021165.1	Ca_kabuli_chr06	37617400	AA	CC	1946870712
SNP_P4_85803_37636394	NC_021165.1	Ca_kabuli_chr06	37636394	GG	AA	1946870714
SNP_P4_85804_37636395	NC_021165.1	Ca_kabuli_chr06	37636395	GG	CC	1946870716
SNP_P4_85805_37636413	NC_021165.1	Ca_kabuli_chr06	37636413	GG	CC	1946870718
SNP_P4_85806_37636483	NC_021165.1	Ca_kabuli_chr06	37636483	GG	AA	1946870720
SNP_P4_85807_37636487	NC_021165.1	Ca_kabuli_chr06	37636487	AA	GG	1946870722
SNP_P4_85808_37636869	NC_021165.1	Ca_kabuli_chr06	37636869	GG	AA	1946870724
SNP_P4_85809_37637331	NC_021165.1	Ca_kabuli_chr06	37637331	GG	AA	1946870726
SNP_P4_85810_37637409	NC_021165.1	Ca_kabuli_chr06	37637409	CC	TT	1946870728
SNP_P4_85811_37639095	NC_021165.1	Ca_kabuli_chr06	37639095	AA	CC	1946870729
SNP_P4_85812_37639174	NC_021165.1	Ca_kabuli_chr06	37639174	CC	GG	1946870731
SNP_P4_85813_37639435	NC_021165.1	Ca_kabuli_chr06	37639435	TT	CC	1946870733
SNP_P4_85814_37639473	NC_021165.1	Ca_kabuli_chr06	37639473	TT	AA	1946870735
SNP_P4_85815_37639502	NC_021165.1	Ca_kabuli_chr06	37639502	AA	TT	1946870737

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_85817_37639516	NC_021165.1	Ca_kabuli_chr06	37639516	GG	TT	1946870741
SNP_P4_85818_37639549	NC_021165.1	Ca_kabuli_chr06	37639549	AA	GG	1946870743
SNP_P4_85820_37643198	NC_021165.1	Ca_kabuli_chr06	37643198	TT	CC	1946870745
SNP_P4_85821_37652281	NC_021165.1	Ca_kabuli_chr06	37652281	CC	TT	1946870747
SNP_P4_85822_37658133	NC_021165.1	Ca_kabuli_chr06	37658133	TT	CC	1946870749
SNP_P4_85823_37658139	NC_021165.1	Ca_kabuli_chr06	37658139	TT	CC	1946870751
SNP_P4_85824_37658497	NC_021165.1	Ca_kabuli_chr06	37658497	TT	CC	1946870753
SNP_P4_85825_37693714	NC_021165.1	Ca_kabuli_chr06	37693714	GG	AA	1946870755
SNP_P4_85826_37711890	NC_021165.1	Ca_kabuli_chr06	37711890	GG	TT	1946870757
SNP_P4_85827_37725109	NC_021165.1	Ca_kabuli_chr06	37725109	CC	TT	1946870759
SNP_P4_85829_37787144	NC_021165.1	Ca_kabuli_chr06	37787144	CC	TT	1946870761
SNP_P4_85831_37827502	NC_021165.1	Ca_kabuli_chr06	37827502	AA	TT	1946870763
SNP_P4_85832_37834682	NC_021165.1	Ca_kabuli_chr06	37834682	CC	TT	1946870765
SNP_P4_85833_37834872	NC_021165.1	Ca_kabuli_chr06	37834872	CC	TT	1946870768
SNP_P4_85834_37834971	NC_021165.1	Ca_kabuli_chr06	37834971	AA	GG	1946870770
SNP_P4_85835_37835316	NC_021165.1	Ca_kabuli_chr06	37835316	TT	CC	1946870772
SNP_P4_85836_37835332	NC_021165.1	Ca_kabuli_chr06	37835332	AA	GG	1946870774
SNP_P4_85837_37835350	NC_021165.1	Ca_kabuli_chr06	37835350	TT	CC	1946870776
SNP_P4_85838_37835470	NC_021165.1	Ca_kabuli_chr06	37835470	GG	AA	1946870778
SNP_P4_85839_37836482	NC_021165.1	Ca_kabuli_chr06	37836482	TT	CC	1946870780
SNP_P4_85840_37836553	NC_021165.1	Ca_kabuli_chr06	37836553	TT	CC	1946870782
SNP_P4_85841_37836554	NC_021165.1	Ca_kabuli_chr06	37836554	CC	TT	1946870784
SNP_P4_85842_37836600	NC_021165.1	Ca_kabuli_chr06	37836600	GG	CC	1946870786
SNP_P4_85843_37836632	NC_021165.1	Ca_kabuli_chr06	37836632	AA	TT	1946870788
SNP_P4_85844_37893614	NC_021165.1	Ca_kabuli_chr06	37893614	TT	AA	1946870790
SNP_P4_85845_37893686	NC_021165.1	Ca_kabuli_chr06	37893686	AA	GG	1946870792
SNP_P4_85846_37894142	NC_021165.1	Ca_kabuli_chr06	37894142	GG	AA	1946870794
SNP_P4_85847_37894148	NC_021165.1	Ca_kabuli_chr06	37894148	TT	CC	1946870796
SNP_P4_85848_37901728	NC_021165.1	Ca_kabuli_chr06	37901728	GG	AA	1946870798
SNP_P4_85849_37901771	NC_021165.1	Ca_kabuli_chr06	37901771	TT	CC	1946870800
SNP_P4_85850_37901778	NC_021165.1	Ca_kabuli_chr06	37901778	CC	GG	1946870802
SNP_P4_85851_37901800	NC_021165.1	Ca_kabuli_chr06	37901800	TT	CC	1946870804
SNP_P4_85852_37901801	NC_021165.1	Ca_kabuli_chr06	37901801	GG	AA	1946870806
SNP_P4_85853_37901811	NC_021165.1	Ca_kabuli_chr06	37901811	GG	TT	1946870808
SNP_P4_85854_37901841	NC_021165.1	Ca_kabuli_chr06	37901841	AA	GG	1946870810
SNP_P4_85856_37902301	NC_021165.1	Ca_kabuli_chr06	37902301	GG	AA	1946870812
SNP_P4_85857_37934640	NC_021165.1	Ca_kabuli_chr06	37934640	AA	GG	1946870814
SNP_P4_85858_37934808	NC_021165.1	Ca_kabuli_chr06	37934808	AA	GG	1946870816
SNP_P4_85859_37934824	NC_021165.1	Ca_kabuli_chr06	37934824	AA	CC	1946870818
SNP_P4_85860_37934834	NC_021165.1	Ca_kabuli_chr06	37934834	TT	CC	1946870819
SNP_P4_85861_37935183	NC_021165.1	Ca_kabuli_chr06	37935183	CC	AA	1946870821

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_85863_37938500	NC_021165.1	Ca_kabuli_chr06	37938500	AA	GG	1946870825
SNP_P4_85864_37938572	NC_021165.1	Ca_kabuli_chr06	37938572	GG	AA	1946870827
SNP_P4_85865_37938584	NC_021165.1	Ca_kabuli_chr06	37938584	TT	CC	1946870829
SNP_P4_85866_37975373	NC_021165.1	Ca_kabuli_chr06	37975373	AA	TT	1946870831
SNP_P4_85867_37975655	NC_021165.1	Ca_kabuli_chr06	37975655	CC	AA	1946870833
SNP_P4_85868_37975721	NC_021165.1	Ca_kabuli_chr06	37975721	CC	TT	1946870836
SNP_P4_85869_37975781	NC_021165.1	Ca_kabuli_chr06	37975781	TT	AA	1946870838
SNP_P4_85870_37975813	NC_021165.1	Ca_kabuli_chr06	37975813	TT	CC	1946870840
SNP_P4_85871_37975858	NC_021165.1	Ca_kabuli_chr06	37975858	TT	AA	1946870842
SNP_P4_85872_37975966	NC_021165.1	Ca_kabuli_chr06	37975966	CC	AA	1946870844
SNP_P4_85873_37975984	NC_021165.1	Ca_kabuli_chr06	37975984	GG	AA	1946870846
SNP_P4_85874_37976046	NC_021165.1	Ca_kabuli_chr06	37976046	TT	GG	1946870848
SNP_P4_85875_37976126	NC_021165.1	Ca_kabuli_chr06	37976126	GG	AA	1946870850
SNP_P4_85876_37976137	NC_021165.1	Ca_kabuli_chr06	37976137	TT	AA	1946870852
SNP_P4_85877_37976160	NC_021165.1	Ca_kabuli_chr06	37976160	CC	TT	1946870854
SNP_P4_85878_37976164	NC_021165.1	Ca_kabuli_chr06	37976164	CC	TT	1946870856
SNP_P4_85879_37976294	NC_021165.1	Ca_kabuli_chr06	37976294	AA	TT	1946870858
SNP_P4_85880_37977467	NC_021165.1	Ca_kabuli_chr06	37977467	AA	GG	1946870860
SNP_P4_85881_37980683	NC_021165.1	Ca_kabuli_chr06	37980683	GG	AA	1946870862
SNP_P4_85882_37980719	NC_021165.1	Ca_kabuli_chr06	37980719	TT	GG	1946870864
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SNP_P4_85893_37981699	NC_021165.1	Ca_kabuli_chr06	37981699	TT	CC	1946870882
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SNP_P4_85895_37981786	NC_021165.1	Ca_kabuli_chr06	37981786	CC	TT	1946870887
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SNP_P4_85899_37982062	NC_021165.1	Ca_kabuli_chr06	37982062	TT	GG	1946870893
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SNP_P4_85902_37986106	NC_021165.1	Ca_kabuli_chr06	37986106	TT	CC	1946870897
SNP_P4_85903_37986136	NC_021165.1	Ca_kabuli_chr06	37986136	AA	TT	1946870899
SNP_P4_85904_37986140	NC_021165.1	Ca_kabuli_chr06	37986140	AA	GG	1946870901
SNP_P4_85905_37986141	NC_021165.1	Ca_kabuli_chr06	37986141	AA	TT	1946870903
SNP_P4_85906_38054675	NC_021165.1	Ca_kabuli_chr06	38054675	AA	GG	1946870905
SNP_P4_85907_38059556	NC_021165.1	Ca_kabuli_chr06	38059556	AA	GG	1946870907

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_85910_38114778	NC_021165.1	Ca_kabuli_chr06	38114778	TT	CC	1946870913
SNP_P4_85911_38117032	NC_021165.1	Ca_kabuli_chr06	38117032	TT	CC	1946870915
SNP_P4_85912_38124341	NC_021165.1	Ca_kabuli_chr06	38124341	AA	GG	1946870917
SNP_P4_85913_38124396	NC_021165.1	Ca_kabuli_chr06	38124396	TT	CC	1946870919
SNP_P4_85914_38124398	NC_021165.1	Ca_kabuli_chr06	38124398	GG	AA	1946870921
SNP_P4_85915_38124568	NC_021165.1	Ca_kabuli_chr06	38124568	TT	CC	1946870923
SNP_P4_85916_38124580	NC_021165.1	Ca_kabuli_chr06	38124580	AA	GG	1946870925
SNP_P4_85917_38124620	NC_021165.1	Ca_kabuli_chr06	38124620	AA	GG	1946870927
SNP_P4_85918_38124653	NC_021165.1	Ca_kabuli_chr06	38124653	AA	GG	1946870929
SNP_P4_85919_38124654	NC_021165.1	Ca_kabuli_chr06	38124654	CC	TT	1946870931
SNP_P4_85920_38124660	NC_021165.1	Ca_kabuli_chr06	38124660	AA	GG	1946870933
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SNP_P4_85922_38124686	NC_021165.1	Ca_kabuli_chr06	38124686	GG	TT	1946870937
SNP_P4_85923_38124687	NC_021165.1	Ca_kabuli_chr06	38124687	CC	TT	1946870939
SNP_P4_85924_38124758	NC_021165.1	Ca_kabuli_chr06	38124758	AA	GG	1946870941
SNP_P4_85925_38135089	NC_021165.1	Ca_kabuli_chr06	38135089	TT	CC	1946870943
SNP_P4_85926_38135203	NC_021165.1	Ca_kabuli_chr06	38135203	AA	GG	1946870945
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SNP_P4_85928_38135341	NC_021165.1	Ca_kabuli_chr06	38135341	AA	GG	1946870949
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SNP_P4_85930_38135383	NC_021165.1	Ca_kabuli_chr06	38135383	TT	AA	1946870953
SNP_P4_85931_38135404	NC_021165.1	Ca_kabuli_chr06	38135404	GG	AA	1946870955
SNP_P4_85932_38135421	NC_021165.1	Ca_kabuli_chr06	38135421	CC	AA	1946870957
SNP_P4_85933_38135422	NC_021165.1	Ca_kabuli_chr06	38135422	TT	AA	1946870959
SNP_P4_85934_38135425	NC_021165.1	Ca_kabuli_chr06	38135425	AA	GG	1946870961
SNP_P4_85935_38135467	NC_021165.1	Ca_kabuli_chr06	38135467	TT	CC	1946870963
SNP_P4_85936_38135483	NC_021165.1	Ca_kabuli_chr06	38135483	TT	CC	1946870965
SNP_P4_85937_38135490	NC_021165.1	Ca_kabuli_chr06	38135490	AA	GG	1946870967
SNP_P4_85938_38135492	NC_021165.1	Ca_kabuli_chr06	38135492	AA	GG	1946870969
SNP_P4_85939_38135506	NC_021165.1	Ca_kabuli_chr06	38135506	AA	GG	1946870971
SNP_P4_85940_38135527	NC_021165.1	Ca_kabuli_chr06	38135527	CC	TT	1946870973
SNP_P4_85941_38144329	NC_021165.1	Ca_kabuli_chr06	38144329	AA	CC	1946870975
SNP_P4_85942_38180098	NC_021165.1	Ca_kabuli_chr06	38180098	CC	AA	1946870977
SNP_P4_85943_38181722	NC_021165.1	Ca_kabuli_chr06	38181722	CC	TT	1946870979
SNP_P4_85944_38181724	NC_021165.1	Ca_kabuli_chr06	38181724	AA	GG	1946870981
SNP_P4_85945_38188275	NC_021165.1	Ca_kabuli_chr06	38188275	GG	AA	1946870983
SNP_P4_85946_38196044	NC_021165.1	Ca_kabuli_chr06	38196044	GG	AA	1946870985
SNP_P4_85947_38196165	NC_021165.1	Ca_kabuli_chr06	38196165	AA	CC	1946870987
SNP_P4_85948_38196208	NC_021165.1	Ca_kabuli_chr06	38196208	AA	TT	1946870989
SNP_P4_85949_38196244	NC_021165.1	Ca_kabuli_chr06	38196244	CC	TT	1946870991

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_85950_38196457	NC_021165.1	Ca_kabuli_chr06	38196457	TT	GG	1946870993
SNP_P4_85951_38196460	NC_021165.1	Ca_kabuli_chr06	38196460	AA	GG	1946870995
SNP_P4_85952_38196474	NC_021165.1	Ca_kabuli_chr06	38196474	TT	CC	1946870997
SNP_P4_85953_38196496	NC_021165.1	Ca_kabuli_chr06	38196496	AA	GG	1946870999
SNP_P4_85954_38196502	NC_021165.1	Ca_kabuli_chr06	38196502	AA	TT	1946871001
SNP_P4_85955_38196508	NC_021165.1	Ca_kabuli_chr06	38196508	AA	TT	1946871003
SNP_P4_85956_38196541	NC_021165.1	Ca_kabuli_chr06	38196541	AA	GG	1946871005
SNP_P4_85957_38196556	NC_021165.1	Ca_kabuli_chr06	38196556	AA	GG	1946871007
SNP_P4_85958_38197790	NC_021165.1	Ca_kabuli_chr06	38197790	AA	TT	1946871009
SNP_P4_85959_38201291	NC_021165.1	Ca_kabuli_chr06	38201291	AA	GG	1946871011
SNP_P4_85960_38201324	NC_021165.1	Ca_kabuli_chr06	38201324	TT	AA	1946871013
SNP_P4_85962_38201620	NC_021165.1	Ca_kabuli_chr06	38201620	GG	AA	1946871015
SNP_P4_85963_38201646	NC_021165.1	Ca_kabuli_chr06	38201646	TT	GG	1946871017
SNP_P4_85964_38202156	NC_021165.1	Ca_kabuli_chr06	38202156	AA	GG	1946871019
SNP_P4_85965_38202188	NC_021165.1	Ca_kabuli_chr06	38202188	AA	GG	1946871021
SNP_P4_85967_38202245	NC_021165.1	Ca_kabuli_chr06	38202245	AA	GG	1946871023
SNP_P4_85968_38202251	NC_021165.1	Ca_kabuli_chr06	38202251	AA	GG	1946871025
SNP_P4_85969_38209070	NC_021165.1	Ca_kabuli_chr06	38209070	CC	TT	1946871027
SNP_P4_85971_38238007	NC_021165.1	Ca_kabuli_chr06	38238007	AA	CC	1946871029
SNP_P4_85972_38248310	NC_021165.1	Ca_kabuli_chr06	38248310	CC	TT	1946871031
SNP_P4_85973_38250532	NC_021165.1	Ca_kabuli_chr06	38250532	GG	AA	1946871033
SNP_P4_85974_38266786	NC_021165.1	Ca_kabuli_chr06	38266786	AA	GG	1946871035
SNP_P4_85975_38272653	NC_021165.1	Ca_kabuli_chr06	38272653	GG	AA	1946871037
SNP_P4_85976_38296409	NC_021165.1	Ca_kabuli_chr06	38296409	AA	GG	1946871039
SNP_P4_85977_38304226	NC_021165.1	Ca_kabuli_chr06	38304226	GG	TT	1946871041
SNP_P4_85978_38312044	NC_021165.1	Ca_kabuli_chr06	38312044	AA	TT	1946871043
SNP_P4_85979_38316288	NC_021165.1	Ca_kabuli_chr06	38316288	TT	CC	1946871045
SNP_P4_85980_38316289	NC_021165.1	Ca_kabuli_chr06	38316289	TT	GG	1946871047
SNP_P4_85981_38368946	NC_021165.1	Ca_kabuli_chr06	38368946	CC	TT	1946871049
SNP_P4_85982_38371731	NC_021165.1	Ca_kabuli_chr06	38371731	TT	CC	1946871051
SNP_P4_85983_38374403	NC_021165.1	Ca_kabuli_chr06	38374403	AA	GG	1946871053
SNP_P4_85984_38378699	NC_021165.1	Ca_kabuli_chr06	38378699	GG	AA	1946871055
SNP_P4_85985_38380289	NC_021165.1	Ca_kabuli_chr06	38380289	AA	GG	1946871057
SNP_P4_85986_38382095	NC_021165.1	Ca_kabuli_chr06	38382095	AA	GG	1946871059
SNP_P4_85988_38422960	NC_021165.1	Ca_kabuli_chr06	38422960	GG	AA	1946871061
SNP_P4_85989_38438002	NC_021165.1	Ca_kabuli_chr06	38438002	TT	CC	1946871063
SNP_P4_85990_38449043	NC_021165.1	Ca_kabuli_chr06	38449043	AA	GG	1946871065
SNP_P4_85991_38449084	NC_021165.1	Ca_kabuli_chr06	38449084	TT	AA	1946871067
SNP_P4_85992_38449102	NC_021165.1	Ca_kabuli_chr06	38449102	CC	AA	1946871069
SNP_P4_85993_38460652	NC_021165.1	Ca_kabuli_chr06	38460652	TT	CC	1946871071
SNP_P4_85994_38461159	NC_021165.1	Ca_kabuli_chr06	38461159	GG	TT	1946871073
SNP_P4_85995_38473041	NC_021165.1	Ca_kabuli_chr06	38473041	CC	TT	1946871074

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_85997_38473180	NC_021165.1	Ca_kabuli_chr06	38473180	GG	AA	1946871078
SNP_P4_85998_38473191	NC_021165.1	Ca_kabuli_chr06	38473191	GG	AA	1946871080
SNP_P4_85999_38473214	NC_021165.1	Ca_kabuli_chr06	38473214	AA	TT	1946871082
SNP_P4_86000_38473223	NC_021165.1	Ca_kabuli_chr06	38473223	AA	TT	1946871084
SNP_P4_86001_38473278	NC_021165.1	Ca_kabuli_chr06	38473278	GG	AA	1946871086
SNP_P4_86002_38473280	NC_021165.1	Ca_kabuli_chr06	38473280	TT	CC	1946871088
SNP_P4_86003_38473299	NC_021165.1	Ca_kabuli_chr06	38473299	CC	TT	1946871090
SNP_P4_86004_38473401	NC_021165.1	Ca_kabuli_chr06	38473401	TT	CC	1946871092
SNP_P4_86005_38473480	NC_021165.1	Ca_kabuli_chr06	38473480	GG	AA	1946871094
SNP_P4_86006_38473489	NC_021165.1	Ca_kabuli_chr06	38473489	AA	GG	1946871096
SNP_P4_86007_38473636	NC_021165.1	Ca_kabuli_chr06	38473636	CC	TT	1946871098
SNP_P4_86008_38505799	NC_021165.1	Ca_kabuli_chr06	38505799	CC	TT	1946871100
SNP_P4_86009_38505819	NC_021165.1	Ca_kabuli_chr06	38505819	AA	TT	1946871102
SNP_P4_86010_38511786	NC_021165.1	Ca_kabuli_chr06	38511786	AA	CC	1946871104
SNP_P4_86011_38512489	NC_021165.1	Ca_kabuli_chr06	38512489	CC	AA	1946871106
SNP_P4_86012_38575380	NC_021165.1	Ca_kabuli_chr06	38575380	TT	GG	1946871108
SNP_P4_86013_38575455	NC_021165.1	Ca_kabuli_chr06	38575455	GG	AA	1946871110
SNP_P4_86014_38575464	NC_021165.1	Ca_kabuli_chr06	38575464	CC	GG	1946871112
SNP_P4_86015_38575498	NC_021165.1	Ca_kabuli_chr06	38575498	CC	TT	1946871114
SNP_P4_86016_38575646	NC_021165.1	Ca_kabuli_chr06	38575646	TT	CC	1946871116
SNP_P4_86017_38575673	NC_021165.1	Ca_kabuli_chr06	38575673	GG	AA	1946871118
SNP_P4_86018_38575679	NC_021165.1	Ca_kabuli_chr06	38575679	AA	GG	1946871120
SNP_P4_86019_38575702	NC_021165.1	Ca_kabuli_chr06	38575702	TT	CC	1946871122
SNP_P4_86020_38575745	NC_021165.1	Ca_kabuli_chr06	38575745	GG	TT	1946871124
SNP_P4_86021_38575763	NC_021165.1	Ca_kabuli_chr06	38575763	TT	AA	1946871126
SNP_P4_86022_38576577	NC_021165.1	Ca_kabuli_chr06	38576577	GG	TT	1946871128
SNP_P4_86023_38577930	NC_021165.1	Ca_kabuli_chr06	38577930	CC	TT	1946871130
SNP_P4_86024_38577977	NC_021165.1	Ca_kabuli_chr06	38577977	TT	CC	1946871132
SNP_P4_86025_38578207	NC_021165.1	Ca_kabuli_chr06	38578207	TT	CC	1946871134
SNP_P4_86026_38595607	NC_021165.1	Ca_kabuli_chr06	38595607	TT	CC	1946871136
SNP_P4_86027_38600443	NC_021165.1	Ca_kabuli_chr06	38600443	TT	GG	1946871138
SNP_P4_86028_38622604	NC_021165.1	Ca_kabuli_chr06	38622604	AA	GG	1946871140
SNP_P4_86029_38629139	NC_021165.1	Ca_kabuli_chr06	38629139	AA	GG	1946871142
SNP_P4_86030_38643835	NC_021165.1	Ca_kabuli_chr06	38643835	CC	TT	1946871144
SNP_P4_86031_38659593	NC_021165.1	Ca_kabuli_chr06	38659593	AA	TT	1946871146
SNP_P4_86032_38659999	NC_021165.1	Ca_kabuli_chr06	38659999	TT	CC	1946871148
SNP_P4_86033_38669741	NC_021165.1	Ca_kabuli_chr06	38669741	TT	CC	1946871150
SNP_P4_86034_38670841	NC_021165.1	Ca_kabuli_chr06	38670841	TT	CC	1946871152
SNP_P4_86035_38670860	NC_021165.1	Ca_kabuli_chr06	38670860	TT	CC	1946871154
SNP_P4_86036_38670885	NC_021165.1	Ca_kabuli_chr06	38670885	AA	GG	1946871156
SNP_P4_86038_38695006	NC_021165.1	Ca_kabuli_chr06	38695006	CC	TT	1946871158

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_86040_38695072	NC_021165.1	Ca_kabuli_chr06	38695072	CC	GG	1946871162
SNP_P4_86041_38695080	NC_021165.1	Ca_kabuli_chr06	38695080	AA	GG	1946871164
SNP_P4_86042_38695081	NC_021165.1	Ca_kabuli_chr06	38695081	GG	AA	1946871166
SNP_P4_86043_38701971	NC_021165.1	Ca_kabuli_chr06	38701971	GG	CC	1946871168
SNP_P4_86044_38705211	NC_021165.1	Ca_kabuli_chr06	38705211	TT	CC	1946871170
SNP_P4_86045_38717685	NC_021165.1	Ca_kabuli_chr06	38717685	AA	GG	1946871172
SNP_P4_86046_38717855	NC_021165.1	Ca_kabuli_chr06	38717855	AA	GG	1946871174
SNP_P4_86047_38717985	NC_021165.1	Ca_kabuli_chr06	38717985	GG	TT	1946871176
SNP_P4_86048_38718062	NC_021165.1	Ca_kabuli_chr06	38718062	TT	CC	1946871178
SNP_P4_86050_38726825	NC_021165.1	Ca_kabuli_chr06	38726825	CC	TT	1946871180
SNP_P4_86051_38745537	NC_021165.1	Ca_kabuli_chr06	38745537	AA	TT	1946871182
SNP_P4_86052_38745844	NC_021165.1	Ca_kabuli_chr06	38745844	AA	GG	1946871184
SNP_P4_86053_38745870	NC_021165.1	Ca_kabuli_chr06	38745870	GG	AA	1946871186
SNP_P4_86054_38781154	NC_021165.1	Ca_kabuli_chr06	38781154	GG	AA	1946871188
SNP_P4_86055_38789783	NC_021165.1	Ca_kabuli_chr06	38789783	TT	CC	1946871190
SNP_P4_86056_38799398	NC_021165.1	Ca_kabuli_chr06	38799398	TT	CC	1946871192
SNP_P4_86057_38805317	NC_021165.1	Ca_kabuli_chr06	38805317	AA	GG	1946871194
SNP_P4_86058_38806590	NC_021165.1	Ca_kabuli_chr06	38806590	TT	GG	1946871196
SNP_P4_86059_38828162	NC_021165.1	Ca_kabuli_chr06	38828162	AA	GG	1946871198
SNP_P4_86060_38829993	NC_021165.1	Ca_kabuli_chr06	38829993	TT	AA	1946871200
SNP_P4_86061_38829994	NC_021165.1	Ca_kabuli_chr06	38829994	AA	TT	1946871202
SNP_P4_86062_38863472	NC_021165.1	Ca_kabuli_chr06	38863472	TT	AA	1946871204
SNP_P4_86063_38863508	NC_021165.1	Ca_kabuli_chr06	38863508	TT	CC	1946871206
SNP_P4_86064_38863512	NC_021165.1	Ca_kabuli_chr06	38863512	TT	CC	1946871208
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SNP_P4_86066_38863556	NC_021165.1	Ca_kabuli_chr06	38863556	TT	CC	1946871212
SNP_P4_86068_38863672	NC_021165.1	Ca_kabuli_chr06	38863672	CC	TT	1946871214
SNP_P4_86069_38863941	NC_021165.1	Ca_kabuli_chr06	38863941	CC	TT	1946871216
SNP_P4_86070_38863968	NC_021165.1	Ca_kabuli_chr06	38863968	TT	CC	1946871218
SNP_P4_86071_38863998	NC_021165.1	Ca_kabuli_chr06	38863998	TT	AA	1946871220
SNP_P4_86072_38864028	NC_021165.1	Ca_kabuli_chr06	38864028	TT	AA	1946871222
SNP_P4_86073_38865491	NC_021165.1	Ca_kabuli_chr06	38865491	AA	GG	1946871224
SNP_P4_86074_38865493	NC_021165.1	Ca_kabuli_chr06	38865493	GG	AA	1946871226
SNP_P4_86075_38865517	NC_021165.1	Ca_kabuli_chr06	38865517	TT	CC	1946871228
SNP_P4_86076_38865521	NC_021165.1	Ca_kabuli_chr06	38865521	TT	GG	1946871230
SNP_P4_86077_38878340	NC_021165.1	Ca_kabuli_chr06	38878340	CC	TT	1946871232
SNP_P4_86078_38906490	NC_021165.1	Ca_kabuli_chr06	38906490	AA	GG	1946871234
SNP_P4_86080_38948520	NC_021165.1	Ca_kabuli_chr06	38948520	TT	CC	1946871236
SNP_P4_86081_38951638	NC_021165.1	Ca_kabuli_chr06	38951638	CC	TT	1946871238
SNP_P4_86082_38955716	NC_021165.1	Ca_kabuli_chr06	38955716	AA	TT	1946871240
SNP_P4_86083_39016845	NC_021165.1	Ca_kabuli_chr06	39016845	AA	CC	1946871242

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_86085_39048226	NC_021165.1	Ca_kabuli_chr06	39048226	TT	CC	1946871246
SNP_P4_86086_39048481	NC_021165.1	Ca_kabuli_chr06	39048481	CC	AA	1946871248
SNP_P4_86087_39048497	NC_021165.1	Ca_kabuli_chr06	39048497	CC	TT	1946871250
SNP_P4_86088_39048501	NC_021165.1	Ca_kabuli_chr06	39048501	AA	GG	1946871252
SNP_P4_86089_39048534	NC_021165.1	Ca_kabuli_chr06	39048534	CC	TT	1946871254
SNP_P4_86090_39048732	NC_021165.1	Ca_kabuli_chr06	39048732	TT	CC	1946871256
SNP_P4_86091_39048758	NC_021165.1	Ca_kabuli_chr06	39048758	CC	TT	1946871258
SNP_P4_86092_39049025	NC_021165.1	Ca_kabuli_chr06	39049025	AA	TT	1946871260
SNP_P4_86093_39049028	NC_021165.1	Ca_kabuli_chr06	39049028	TT	GG	1946871262
SNP_P4_86094_39049360	NC_021165.1	Ca_kabuli_chr06	39049360	TT	CC	1946871264
SNP_P4_86095_39049391	NC_021165.1	Ca_kabuli_chr06	39049391	CC	TT	1946871266
SNP_P4_86096_39049418	NC_021165.1	Ca_kabuli_chr06	39049418	AA	GG	1946871268
SNP_P4_86097_39049425	NC_021165.1	Ca_kabuli_chr06	39049425	CC	TT	1946871270
SNP_P4_86098_39049469	NC_021165.1	Ca_kabuli_chr06	39049469	CC	TT	1946871272
SNP_P4_86099_39049480	NC_021165.1	Ca_kabuli_chr06	39049480	CC	TT	1946871274
SNP_P4_86100_39049702	NC_021165.1	Ca_kabuli_chr06	39049702	CC	AA	1946871276
SNP_P4_86101_39049720	NC_021165.1	Ca_kabuli_chr06	39049720	GG	AA	1946871278
SNP_P4_86102_39049736	NC_021165.1	Ca_kabuli_chr06	39049736	CC	AA	1946871280
SNP_P4_86104_39049944	NC_021165.1	Ca_kabuli_chr06	39049944	TT	CC	1946871282
SNP_P4_86105_39049958	NC_021165.1	Ca_kabuli_chr06	39049958	GG	TT	1946871284
SNP_P4_86106_39049967	NC_021165.1	Ca_kabuli_chr06	39049967	TT	CC	1946871286
SNP_P4_86107_39055564	NC_021165.1	Ca_kabuli_chr06	39055564	AA	TT	1946871288
SNP_P4_86108_39055568	NC_021165.1	Ca_kabuli_chr06	39055568	TT	GG	1946871290
SNP_P4_86109_39055594	NC_021165.1	Ca_kabuli_chr06	39055594	TT	CC	1946871292
SNP_P4_86110_39056031	NC_021165.1	Ca_kabuli_chr06	39056031	AA	CC	1946871294
SNP_P4_86111_39062178	NC_021165.1	Ca_kabuli_chr06	39062178	CC	TT	1946871296
SNP_P4_86112_39079018	NC_021165.1	Ca_kabuli_chr06	39079018	TT	CC	1946871298
SNP_P4_86113_39096084	NC_021165.1	Ca_kabuli_chr06	39096084	AA	GG	1946871300
SNP_P4_86115_39128151	NC_021165.1	Ca_kabuli_chr06	39128151	TT	CC	1946871302
SNP_P4_86116_39162886	NC_021165.1	Ca_kabuli_chr06	39162886	TT	GG	1946871304
SNP_P4_86117_39165803	NC_021165.1	Ca_kabuli_chr06	39165803	TT	CC	1946871306
SNP_P4_86118_39166197	NC_021165.1	Ca_kabuli_chr06	39166197	TT	CC	1946871308
SNP_P4_86119_39182914	NC_021165.1	Ca_kabuli_chr06	39182914	TT	CC	1946871310
SNP_P4_86120_39194616	NC_021165.1	Ca_kabuli_chr06	39194616	GG	AA	1946871312
SNP_P4_86121_39213384	NC_021165.1	Ca_kabuli_chr06	39213384	GG	CC	1946871314
SNP_P4_86123_39249985	NC_021165.1	Ca_kabuli_chr06	39249985	AA	GG	1946871316
SNP_P4_86125_39267012	NC_021165.1	Ca_kabuli_chr06	39267012	AA	GG	1946871318
SNP_P4_86126_39272261	NC_021165.1	Ca_kabuli_chr06	39272261	TT	CC	1946871321
SNP_P4_86127_39283809	NC_021165.1	Ca_kabuli_chr06	39283809	AA	GG	1946871323
SNP_P4_86128_39284149	NC_021165.1	Ca_kabuli_chr06	39284149	AA	GG	1946871325
SNP_P4_86129_39284154	NC_021165.1	Ca_kabuli_chr06	39284154	CC	TT	1946871327

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_86131_39301737	NC_021165.1	Ca_kabuli_chr06	39301737	GG	TT	1946871331
SNP_P4_86132_39301746	NC_021165.1	Ca_kabuli_chr06	39301746	CC	TT	1946871333
SNP_P4_86133_39302166	NC_021165.1	Ca_kabuli_chr06	39302166	CC	AA	1946871335
SNP_P4_86134_39348987	NC_021165.1	Ca_kabuli_chr06	39348987	TT	GG	1946871337
SNP_P4_86136_39446280	NC_021165.1	Ca_kabuli_chr06	39446280	TT	CC	1946871339
SNP_P4_86137_39446517	NC_021165.1	Ca_kabuli_chr06	39446517	CC	TT	1946871341
SNP_P4_86138_39450064	NC_021165.1	Ca_kabuli_chr06	39450064	GG	AA	1946871343
SNP_P4_86140_39465034	NC_021165.1	Ca_kabuli_chr06	39465034	CC	TT	1946871345
SNP_P4_86143_39469851	NC_021165.1	Ca_kabuli_chr06	39469851	GG	AA	1946871347
SNP_P4_86144_39497030	NC_021165.1	Ca_kabuli_chr06	39497030	AA	GG	1946871349
SNP_P4_86145_39499994	NC_021165.1	Ca_kabuli_chr06	39499994	AA	GG	1946871351
SNP_P4_86146_39500189	NC_021165.1	Ca_kabuli_chr06	39500189	TT	CC	1946871353
SNP_P4_86147_39500214	NC_021165.1	Ca_kabuli_chr06	39500214	GG	AA	1946871355
SNP_P4_86148_39500217	NC_021165.1	Ca_kabuli_chr06	39500217	CC	TT	1946871357
SNP_P4_86149_39501189	NC_021165.1	Ca_kabuli_chr06	39501189	AA	CC	1946871359
SNP_P4_86150_39514572	NC_021165.1	Ca_kabuli_chr06	39514572	AA	GG	1946871361
SNP_P4_86151_39533052	NC_021165.1	Ca_kabuli_chr06	39533052	TT	CC	1946871363
SNP_P4_86152_39545322	NC_021165.1	Ca_kabuli_chr06	39545322	TT	CC	1946871365
SNP_P4_86153_39551268	NC_021165.1	Ca_kabuli_chr06	39551268	GG	AA	1946871367
SNP_P4_86154_39604302	NC_021165.1	Ca_kabuli_chr06	39604302	AA	GG	1946871369
SNP_P4_86155_39622112	NC_021165.1	Ca_kabuli_chr06	39622112	TT	AA	1946871371
SNP_P4_86156_39639756	NC_021165.1	Ca_kabuli_chr06	39639756	CC	TT	1946871373
SNP_P4_86157_39646379	NC_021165.1	Ca_kabuli_chr06	39646379	CC	AA	1946871375
SNP_P4_86158_39679167	NC_021165.1	Ca_kabuli_chr06	39679167	TT	CC	1946871377
SNP_P4_86159_39679170	NC_021165.1	Ca_kabuli_chr06	39679170	AA	GG	1946871379
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SNP_P4_86161_39679180	NC_021165.1	Ca_kabuli_chr06	39679180	AA	CC	1946871383
SNP_P4_86162_39679186	NC_021165.1	Ca_kabuli_chr06	39679186	CC	TT	1946871385
SNP_P4_86163_39680853	NC_021165.1	Ca_kabuli_chr06	39680853	CC	TT	1946871387
SNP_P4_86164_39689540	NC_021165.1	Ca_kabuli_chr06	39689540	AA	GG	1946871389
SNP_P4_86165_39696227	NC_021165.1	Ca_kabuli_chr06	39696227	TT	GG	1946871391
SNP_P4_86166_39721676	NC_021165.1	Ca_kabuli_chr06	39721676	GG	AA	1946871393
SNP_P4_86167_39723653	NC_021165.1	Ca_kabuli_chr06	39723653	AA	GG	1946871395
SNP_P4_86168_39743992	NC_021165.1	Ca_kabuli_chr06	39743992	GG	AA	1946871397
SNP_P4_86169_39751422	NC_021165.1	Ca_kabuli_chr06	39751422	TT	GG	1946871399
SNP_P4_86170_39755486	NC_021165.1	Ca_kabuli_chr06	39755486	GG	AA	1946871401
SNP_P4_86171_39759819	NC_021165.1	Ca_kabuli_chr06	39759819	CC	TT	1946871403
SNP_P4_86172_39759983	NC_021165.1	Ca_kabuli_chr06	39759983	GG	AA	1946871405
SNP_P4_86173_39765444	NC_021165.1	Ca_kabuli_chr06	39765444	TT	CC	1946871407
SNP_P4_86175_39781442	NC_021165.1	Ca_kabuli_chr06	39781442	CC	TT	1946871409
SNP_P4_86177_39790409	NC_021165.1	Ca_kabuli_chr06	39790409	TT	AA	1946871411

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_86179_39790446	NC_021165.1	Ca_kabuli_chr06	39790446	CC	TT	1946871415
SNP_P4_86181_39792449	NC_021165.1	Ca_kabuli_chr06	39792449	GG	AA	1946871417
SNP_P4_86182_39797412	NC_021165.1	Ca_kabuli_chr06	39797412	GG	TT	1946871419
SNP_P4_86183_39797451	NC_021165.1	Ca_kabuli_chr06	39797451	TT	CC	1946871421
SNP_P4_86185_39811135	NC_021165.1	Ca_kabuli_chr06	39811135	TT	AA	1946871423
SNP_P4_86186_39811481	NC_021165.1	Ca_kabuli_chr06	39811481	AA	GG	1946871425
SNP_P4_86187_39813934	NC_021165.1	Ca_kabuli_chr06	39813934	TT	CC	1946871427
SNP_P4_86188_39826129	NC_021165.1	Ca_kabuli_chr06	39826129	TT	CC	1946871429
SNP_P4_86191_39834190	NC_021165.1	Ca_kabuli_chr06	39834190	GG	AA	1946871431
SNP_P4_86192_39842934	NC_021165.1	Ca_kabuli_chr06	39842934	CC	TT	1946871433
SNP_P4_86193_39842936	NC_021165.1	Ca_kabuli_chr06	39842936	AA	GG	1946871435
SNP_P4_86194_39862887	NC_021165.1	Ca_kabuli_chr06	39862887	AA	GG	1946871437
SNP_P4_86195_39862964	NC_021165.1	Ca_kabuli_chr06	39862964	TT	CC	1946871439
SNP_P4_86196_39862965	NC_021165.1	Ca_kabuli_chr06	39862965	GG	AA	1946871441
SNP_P4_86197_39863002	NC_021165.1	Ca_kabuli_chr06	39863002	AA	CC	1946871443
SNP_P4_86200_39880218	NC_021165.1	Ca_kabuli_chr06	39880218	AA	GG	1946871445
SNP_P4_86201_39880231	NC_021165.1	Ca_kabuli_chr06	39880231	AA	GG	1946871447
SNP_P4_86202_39880259	NC_021165.1	Ca_kabuli_chr06	39880259	TT	CC	1946871449
SNP_P4_86203_39880266	NC_021165.1	Ca_kabuli_chr06	39880266	AA	CC	1946871451
SNP_P4_86204_39902903	NC_021165.1	Ca_kabuli_chr06	39902903	TT	CC	1946871453
SNP_P4_86205_39923494	NC_021165.1	Ca_kabuli_chr06	39923494	GG	AA	1946871455
SNP_P4_86206_39923539	NC_021165.1	Ca_kabuli_chr06	39923539	TT	CC	1946871457
SNP_P4_86207_39923898	NC_021165.1	Ca_kabuli_chr06	39923898	CC	TT	1946871459
SNP_P4_86208_39923920	NC_021165.1	Ca_kabuli_chr06	39923920	GG	AA	1946871461
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SNP_P4_86211_39961236	NC_021165.1	Ca_kabuli_chr06	39961236	AA	TT	1946871465
SNP_P4_86212_39972075	NC_021165.1	Ca_kabuli_chr06	39972075	AA	CC	1946871467
SNP_P4_86213_40024171	NC_021165.1	Ca_kabuli_chr06	40024171	GG	CC	1946871469
SNP_P4_86215_40035983	NC_021165.1	Ca_kabuli_chr06	40035983	CC	AA	1946871471
SNP_P4_86216_40036217	NC_021165.1	Ca_kabuli_chr06	40036217	GG	CC	1946871473
SNP_P4_86217_40036466	NC_021165.1	Ca_kabuli_chr06	40036466	TT	GG	1946871475
SNP_P4_86218_40036483	NC_021165.1	Ca_kabuli_chr06	40036483	TT	AA	1946871477
SNP_P4_86219_40036489	NC_021165.1	Ca_kabuli_chr06	40036489	AA	GG	1946871479
SNP_P4_86220_40036985	NC_021165.1	Ca_kabuli_chr06	40036985	TT	AA	1946871481
SNP_P4_86221_40037039	NC_021165.1	Ca_kabuli_chr06	40037039	AA	CC	1946871483
SNP_P4_86222_40037090	NC_021165.1	Ca_kabuli_chr06	40037090	GG	TT	1946871485
SNP_P4_86223_40100644	NC_021165.1	Ca_kabuli_chr06	40100644	GG	AA	1946871487
SNP_P4_86224_40100680	NC_021165.1	Ca_kabuli_chr06	40100680	GG	TT	1946871489
SNP_P4_86225_40100759	NC_021165.1	Ca_kabuli_chr06	40100759	AA	CC	1946871491
SNP_P4_86226_40102475	NC_021165.1	Ca_kabuli_chr06	40102475	GG	AA	1946871493
SNP_P4_86227_40108122	NC_021165.1	Ca_kabuli_chr06	40108122	TT	CC	1946871495

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_86229_40119712	NC_021165.1	Ca_kabuli_chr06	40119712	TT	GG	1946871499
SNP_P4_86230_40119715	NC_021165.1	Ca_kabuli_chr06	40119715	AA	GG	1946871501
SNP_P4_86231_40131900	NC_021165.1	Ca_kabuli_chr06	40131900	GG	AA	1946871503
SNP_P4_86232_40131906	NC_021165.1	Ca_kabuli_chr06	40131906	AA	GG	1946871505
SNP_P4_86233_40131929	NC_021165.1	Ca_kabuli_chr06	40131929	GG	AA	1946871507
SNP_P4_86234_40132179	NC_021165.1	Ca_kabuli_chr06	40132179	TT	CC	1946871509
SNP_P4_86235_40144533	NC_021165.1	Ca_kabuli_chr06	40144533	AA	TT	1946871511
SNP_P4_86236_40144723	NC_021165.1	Ca_kabuli_chr06	40144723	CC	GG	1946871513
SNP_P4_86237_40144726	NC_021165.1	Ca_kabuli_chr06	40144726	AA	GG	1946871515
SNP_P4_86238_40144754	NC_021165.1	Ca_kabuli_chr06	40144754	AA	GG	1946871517
SNP_P4_86239_40146966	NC_021165.1	Ca_kabuli_chr06	40146966	CC	AA	1946871518
SNP_P4_86240_40186621	NC_021165.1	Ca_kabuli_chr06	40186621	GG	AA	1946871520
SNP_P4_86241_40188290	NC_021165.1	Ca_kabuli_chr06	40188290	TT	CC	1946871522
SNP_P4_86242_40188339	NC_021165.1	Ca_kabuli_chr06	40188339	TT	GG	1946871524
SNP_P4_86243_40188342	NC_021165.1	Ca_kabuli_chr06	40188342	CC	TT	1946871526
SNP_P4_86244_40188396	NC_021165.1	Ca_kabuli_chr06	40188396	GG	AA	1946871529
SNP_P4_86245_40188400	NC_021165.1	Ca_kabuli_chr06	40188400	TT	AA	1946871531
SNP_P4_86246_40188542	NC_021165.1	Ca_kabuli_chr06	40188542	TT	AA	1946871534
SNP_P4_86247_40188651	NC_021165.1	Ca_kabuli_chr06	40188651	TT	GG	1946871536
SNP_P4_86248_40221963	NC_021165.1	Ca_kabuli_chr06	40221963	CC	AA	1946871538
SNP_P4_86249_40245757	NC_021165.1	Ca_kabuli_chr06	40245757	AA	TT	1946871540
SNP_P4_86250_40249035	NC_021165.1	Ca_kabuli_chr06	40249035	GG	AA	1946871542
SNP_P4_86251_40294611	NC_021165.1	Ca_kabuli_chr06	40294611	GG	TT	1946871544
SNP_P4_86252_40316293	NC_021165.1	Ca_kabuli_chr06	40316293	GG	TT	1946871546
SNP_P4_86253_40361196	NC_021165.1	Ca_kabuli_chr06	40361196	GG	AA	1946871548
SNP_P4_86254_40364666	NC_021165.1	Ca_kabuli_chr06	40364666	CC	TT	1946871550
SNP_P4_86255_40389894	NC_021165.1	Ca_kabuli_chr06	40389894	AA	CC	1946871552
SNP_P4_86256_40389895	NC_021165.1	Ca_kabuli_chr06	40389895	CC	TT	1946871554
SNP_P4_86257_40453114	NC_021165.1	Ca_kabuli_chr06	40453114	AA	GG	1946871556
SNP_P4_86258_40491146	NC_021165.1	Ca_kabuli_chr06	40491146	AA	TT	1946871558
SNP_P4_86260_40515957	NC_021165.1	Ca_kabuli_chr06	40515957	CC	GG	1946871560
SNP_P4_86261_40522759	NC_021165.1	Ca_kabuli_chr06	40522759	GG	AA	1946871562
SNP_P4_86262_40523106	NC_021165.1	Ca_kabuli_chr06	40523106	GG	AA	1946871564
SNP_P4_86263_40523694	NC_021165.1	Ca_kabuli_chr06	40523694	AA	TT	1946871566
SNP_P4_86264_40523716	NC_021165.1	Ca_kabuli_chr06	40523716	TT	CC	1946871568
SNP_P4_86265_40533291	NC_021165.1	Ca_kabuli_chr06	40533291	TT	CC	1946871570
SNP_P4_86266_40536554	NC_021165.1	Ca_kabuli_chr06	40536554	AA	GG	1946871572
SNP_P4_86267_40536577	NC_021165.1	Ca_kabuli_chr06	40536577	CC	TT	1946871574
SNP_P4_86268_40536640	NC_021165.1	Ca_kabuli_chr06	40536640	CC	TT	1946871576
SNP_P4_86269_40536843	NC_021165.1	Ca_kabuli_chr06	40536843	GG	TT	1946871578
SNP_P4_86270_40536893	NC_021165.1	Ca_kabuli_chr06	40536893	AA	TT	1946871579

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_86272_40542381	NC_021165.1	Ca_kabuli_chr06	40542381	CC	AA	1946871583
SNP_P4_86273_40550601	NC_021165.1	Ca_kabuli_chr06	40550601	GG	AA	1946871585
SNP_P4_86274_40560506	NC_021165.1	Ca_kabuli_chr06	40560506	CC	TT	1946871587
SNP_P4_86275_40590565	NC_021165.1	Ca_kabuli_chr06	40590565	TT	CC	1946871589
SNP_P4_86277_40614394	NC_021165.1	Ca_kabuli_chr06	40614394	CC	TT	1946871591
SNP_P4_86278_40649274	NC_021165.1	Ca_kabuli_chr06	40649274	TT	AA	1946871593
SNP_P4_86279_40684403	NC_021165.1	Ca_kabuli_chr06	40684403	AA	GG	1946871595
SNP_P4_86281_40705411	NC_021165.1	Ca_kabuli_chr06	40705411	TT	GG	1946871597
SNP_P4_86282_40705921	NC_021165.1	Ca_kabuli_chr06	40705921	AA	TT	1946871599
SNP_P4_86283_40723282	NC_021165.1	Ca_kabuli_chr06	40723282	TT	CC	1946871601
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SNP_P4_86288_40800355	NC_021165.1	Ca_kabuli_chr06	40800355	AA	GG	1946871609
SNP_P4_86290_40820871	NC_021165.1	Ca_kabuli_chr06	40820871	AA	CC	1946871611
SNP_P4_86291_40820882	NC_021165.1	Ca_kabuli_chr06	40820882	TT	GG	1946871613
SNP_P4_86292_40843167	NC_021165.1	Ca_kabuli_chr06	40843167	TT	AA	1946871615
SNP_P4_86293_40845396	NC_021165.1	Ca_kabuli_chr06	40845396	TT	CC	1946871617
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SNP_P4_86295_40860051	NC_021165.1	Ca_kabuli_chr06	40860051	AA	GG	1946871621
SNP_P4_86296_40860319	NC_021165.1	Ca_kabuli_chr06	40860319	CC	TT	1946871623
SNP_P4_86297_40860320	NC_021165.1	Ca_kabuli_chr06	40860320	TT	CC	1946871625
SNP_P4_86298_40860505	NC_021165.1	Ca_kabuli_chr06	40860505	GG	AA	1946871627
SNP_P4_86299_40860539	NC_021165.1	Ca_kabuli_chr06	40860539	GG	AA	1946871629
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SNP_P4_86301_40863517	NC_021165.1	Ca_kabuli_chr06	40863517	AA	TT	1946871633
SNP_P4_86302_40863521	NC_021165.1	Ca_kabuli_chr06	40863521	AA	TT	1946871635
SNP_P4_86303_40863522	NC_021165.1	Ca_kabuli_chr06	40863522	AA	TT	1946871637
SNP_P4_86304_40864458	NC_021165.1	Ca_kabuli_chr06	40864458	GG	AA	1946871639
SNP_P4_86305_40864466	NC_021165.1	Ca_kabuli_chr06	40864466	GG	CC	1946871641
SNP_P4_86306_40880281	NC_021165.1	Ca_kabuli_chr06	40880281	GG	CC	1946871643
SNP_P4_86307_40892078	NC_021165.1	Ca_kabuli_chr06	40892078	GG	CC	1946871645
SNP_P4_86308_40901224	NC_021165.1	Ca_kabuli_chr06	40901224	CC	TT	1946871647
SNP_P4_86309_40908318	NC_021165.1	Ca_kabuli_chr06	40908318	CC	TT	1946871649
SNP_P4_86310_40928224	NC_021165.1	Ca_kabuli_chr06	40928224	TT	CC	1946871651
SNP_P4_86311_40932430	NC_021165.1	Ca_kabuli_chr06	40932430	TT	GG	1946871653
SNP_P4_86312_40944965	NC_021165.1	Ca_kabuli_chr06	40944965	TT	AA	1946871655
SNP_P4_86313_40955355	NC_021165.1	Ca_kabuli_chr06	40955355	CC	TT	1946871657
SNP_P4_86314_40955711	NC_021165.1	Ca_kabuli_chr06	40955711	AA	TT	1946871659
SNP_P4_86315_40975126	NC_021165.1	Ca_kabuli_chr06	40975126	TT	AA	1946871661
SNP_P4_86316_40975160	NC_021165.1	Ca_kabuli_chr06	40975160	GG	AA	1946871663

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_86318_40979433	NC_021165.1	Ca_kabuli_chr06	40979433	TT	CC	1946871667
SNP_P4_86319_41000814	NC_021165.1	Ca_kabuli_chr06	41000814	GG	AA	1946871669
SNP_P4_86320_41001193	NC_021165.1	Ca_kabuli_chr06	41001193	GG	AA	1946871671
SNP_P4_86321_41001279	NC_021165.1	Ca_kabuli_chr06	41001279	CC	TT	1946871672
SNP_P4_86322_41001832	NC_021165.1	Ca_kabuli_chr06	41001832	TT	CC	1946871674
SNP_P4_86323_41012548	NC_021165.1	Ca_kabuli_chr06	41012548	TT	CC	1946871676
SNP_P4_86324_41026946	NC_021165.1	Ca_kabuli_chr06	41026946	AA	GG	1946871679
SNP_P4_86325_41028734	NC_021165.1	Ca_kabuli_chr06	41028734	AA	GG	1946871681
SNP_P4_86326_41117868	NC_021165.1	Ca_kabuli_chr06	41117868	GG	CC	1946871683
SNP_P4_86327_41117922	NC_021165.1	Ca_kabuli_chr06	41117922	GG	TT	1946871685
SNP_P4_86328_41117925	NC_021165.1	Ca_kabuli_chr06	41117925	CC	AA	1946871687
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SNP_P4_86330_41118308	NC_021165.1	Ca_kabuli_chr06	41118308	TT	GG	1946871690
SNP_P4_86331_41118330	NC_021165.1	Ca_kabuli_chr06	41118330	AA	GG	1946871692
SNP_P4_86332_41118380	NC_021165.1	Ca_kabuli_chr06	41118380	GG	AA	1946871694
SNP_P4_86333_41118424	NC_021165.1	Ca_kabuli_chr06	41118424	AA	TT	1946871696
SNP_P4_86334_41118432	NC_021165.1	Ca_kabuli_chr06	41118432	AA	TT	1946871698
SNP_P4_86335_41118624	NC_021165.1	Ca_kabuli_chr06	41118624	AA	TT	1946871700
SNP_P4_86337_41118978	NC_021165.1	Ca_kabuli_chr06	41118978	TT	CC	1946871702
SNP_P4_86338_41118983	NC_021165.1	Ca_kabuli_chr06	41118983	AA	TT	1946871704
SNP_P4_86339_41118993	NC_021165.1	Ca_kabuli_chr06	41118993	AA	GG	1946871706
SNP_P4_86340_41119058	NC_021165.1	Ca_kabuli_chr06	41119058	TT	CC	1946871708
SNP_P4_86341_41119107	NC_021165.1	Ca_kabuli_chr06	41119107	TT	CC	1946871710
SNP_P4_86342_41128429	NC_021165.1	Ca_kabuli_chr06	41128429	CC	TT	1946871712
SNP_P4_86343_41128440	NC_021165.1	Ca_kabuli_chr06	41128440	CC	TT	1946871714
SNP_P4_86344_41128534	NC_021165.1	Ca_kabuli_chr06	41128534	AA	GG	1946871716
SNP_P4_86346_41128688	NC_021165.1	Ca_kabuli_chr06	41128688	CC	TT	1946871718
SNP_P4_86347_41128693	NC_021165.1	Ca_kabuli_chr06	41128693	AA	GG	1946871720
SNP_P4_86348_41128699	NC_021165.1	Ca_kabuli_chr06	41128699	CC	TT	1946871722
SNP_P4_86349_41128701	NC_021165.1	Ca_kabuli_chr06	41128701	GG	AA	1946871724
SNP_P4_86350_41128726	NC_021165.1	Ca_kabuli_chr06	41128726	TT	CC	1946871726
SNP_P4_86351_41128736	NC_021165.1	Ca_kabuli_chr06	41128736	CC	TT	1946871728
SNP_P4_86352_41128786	NC_021165.1	Ca_kabuli_chr06	41128786	GG	TT	1946871730
SNP_P4_86353_41128847	NC_021165.1	Ca_kabuli_chr06	41128847	CC	TT	1946871732
SNP_P4_86354_41129211	NC_021165.1	Ca_kabuli_chr06	41129211	AA	GG	1946871734
SNP_P4_86355_41129346	NC_021165.1	Ca_kabuli_chr06	41129346	AA	TT	1946871736
SNP_P4_86356_41129358	NC_021165.1	Ca_kabuli_chr06	41129358	CC	TT	1946871738
SNP_P4_86357_41129841	NC_021165.1	Ca_kabuli_chr06	41129841	CC	AA	1946871740
SNP_P4_86358_41129861	NC_021165.1	Ca_kabuli_chr06	41129861	GG	AA	1946871742
SNP_P4_86359_41129865	NC_021165.1	Ca_kabuli_chr06	41129865	TT	CC	1946871744
SNP_P4_86360_41130071	NC_021165.1	Ca_kabuli_chr06	41130071	AA	CC	1946871746

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_86362_41130273	NC_021165.1	Ca_kabuli_chr06	41130273	AA	GG	1946871750
SNP_P4_86363_41131983	NC_021165.1	Ca_kabuli_chr06	41131983	CC	TT	1946871752
SNP_P4_86364_41132399	NC_021165.1	Ca_kabuli_chr06	41132399	AA	CC	1946871754
SNP_P4_86365_41135134	NC_021165.1	Ca_kabuli_chr06	41135134	GG	AA	1946871756
SNP_P4_86366_41135162	NC_021165.1	Ca_kabuli_chr06	41135162	CC	TT	1946871758
SNP_P4_86367_41135169	NC_021165.1	Ca_kabuli_chr06	41135169	GG	TT	1946871760
SNP_P4_86368_41135291	NC_021165.1	Ca_kabuli_chr06	41135291	TT	CC	1946871762
SNP_P4_86370_41151487	NC_021165.1	Ca_kabuli_chr06	41151487	CC	AA	1946871764
SNP_P4_86371_41152479	NC_021165.1	Ca_kabuli_chr06	41152479	GG	AA	1946871766
SNP_P4_86372_41159351	NC_021165.1	Ca_kabuli_chr06	41159351	TT	AA	1946871768
SNP_P4_86373_41159352	NC_021165.1	Ca_kabuli_chr06	41159352	TT	CC	1946871769
SNP_P4_86374_41160108	NC_021165.1	Ca_kabuli_chr06	41160108	CC	TT	1946871771
SNP_P4_86375_41165413	NC_021165.1	Ca_kabuli_chr06	41165413	CC	TT	1946871773
SNP_P4_86376_41165430	NC_021165.1	Ca_kabuli_chr06	41165430	GG	CC	1946871775
SNP_P4_86377_41165468	NC_021165.1	Ca_kabuli_chr06	41165468	CC	TT	1946871777
SNP_P4_86378_41165561	NC_021165.1	Ca_kabuli_chr06	41165561	AA	TT	1946871779
SNP_P4_86380_41171940	NC_021165.1	Ca_kabuli_chr06	41171940	CC	GG	1946871781
SNP_P4_86381_41177592	NC_021165.1	Ca_kabuli_chr06	41177592	TT	AA	1946871783
SNP_P4_86382_41177826	NC_021165.1	Ca_kabuli_chr06	41177826	TT	GG	1946871785
SNP_P4_86383_41177865	NC_021165.1	Ca_kabuli_chr06	41177865	TT	GG	1946871787
SNP_P4_86385_41229188	NC_021165.1	Ca_kabuli_chr06	41229188	AA	TT	1946871789
SNP_P4_86386_41230156	NC_021165.1	Ca_kabuli_chr06	41230156	CC	TT	1946871791
SNP_P4_86387_41230433	NC_021165.1	Ca_kabuli_chr06	41230433	AA	CC	1946871793
SNP_P4_86388_41230434	NC_021165.1	Ca_kabuli_chr06	41230434	TT	AA	1946871795
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SNP_P4_86391_41230486	NC_021165.1	Ca_kabuli_chr06	41230486	GG	TT	1946871801
SNP_P4_86392_41230489	NC_021165.1	Ca_kabuli_chr06	41230489	GG	AA	1946871803
SNP_P4_86393_41230594	NC_021165.1	Ca_kabuli_chr06	41230594	AA	GG	1946871805
SNP_P4_86394_41241073	NC_021165.1	Ca_kabuli_chr06	41241073	TT	CC	1946871807
SNP_P4_86395_41258705	NC_021165.1	Ca_kabuli_chr06	41258705	CC	AA	1946871808
SNP_P4_86396_41263233	NC_021165.1	Ca_kabuli_chr06	41263233	CC	TT	1946871811
SNP_P4_86397_41288113	NC_021165.1	Ca_kabuli_chr06	41288113	AA	TT	1946871813
SNP_P4_86398_41301667	NC_021165.1	Ca_kabuli_chr06	41301667	CC	TT	1946871814
SNP_P4_86399_41301896	NC_021165.1	Ca_kabuli_chr06	41301896	TT	AA	1946871816
SNP_P4_86400_41315378	NC_021165.1	Ca_kabuli_chr06	41315378	GG	AA	1946871818
SNP_P4_86401_41315382	NC_021165.1	Ca_kabuli_chr06	41315382	TT	AA	1946871820
SNP_P4_86402_41315386	NC_021165.1	Ca_kabuli_chr06	41315386	CC	AA	1946871822
SNP_P4_86403_41318957	NC_021165.1	Ca_kabuli_chr06	41318957	CC	TT	1946871824
SNP_P4_86404_41318982	NC_021165.1	Ca_kabuli_chr06	41318982	TT	GG	1946871826
SNP_P4_86405_41319184	NC_021165.1	Ca_kabuli_chr06	41319184	GG	AA	1946871828

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_86407_41322556	NC_021165.1	Ca_kabuli_chr06	41322556	GG	AA	1946871832
SNP_P4_86408_41322764	NC_021165.1	Ca_kabuli_chr06	41322764	AA	GG	1946871834
SNP_P4_86409_41324466	NC_021165.1	Ca_kabuli_chr06	41324466	GG	AA	1946871836
SNP_P4_86410_41342868	NC_021165.1	Ca_kabuli_chr06	41342868	TT	CC	1946871837
SNP_P4_86411_41350804	NC_021165.1	Ca_kabuli_chr06	41350804	AA	GG	1946871839
SNP_P4_86412_41358615	NC_021165.1	Ca_kabuli_chr06	41358615	TT	CC	1946871841
SNP_P4_86413_41393889	NC_021165.1	Ca_kabuli_chr06	41393889	TT	AA	1946871843
SNP_P4_86414_41395913	NC_021165.1	Ca_kabuli_chr06	41395913	AA	GG	1946871845
SNP_P4_86415_41397962	NC_021165.1	Ca_kabuli_chr06	41397962	GG	AA	1946871847
SNP_P4_86416_41405706	NC_021165.1	Ca_kabuli_chr06	41405706	AA	TT	1946871849
SNP_P4_86417_41456271	NC_021165.1	Ca_kabuli_chr06	41456271	TT	AA	1946871851
SNP_P4_86418_41464139	NC_021165.1	Ca_kabuli_chr06	41464139	TT	CC	1946871853
SNP_P4_86419_41464177	NC_021165.1	Ca_kabuli_chr06	41464177	AA	GG	1946871855
SNP_P4_86421_41464303	NC_021165.1	Ca_kabuli_chr06	41464303	TT	CC	1946871857
SNP_P4_86423_41464335	NC_021165.1	Ca_kabuli_chr06	41464335	CC	TT	1946871859
SNP_P4_86424_41464338	NC_021165.1	Ca_kabuli_chr06	41464338	GG	TT	1946871861
SNP_P4_86425_41464372	NC_021165.1	Ca_kabuli_chr06	41464372	TT	CC	1946871863
SNP_P4_86426_41464374	NC_021165.1	Ca_kabuli_chr06	41464374	AA	GG	1946871865
SNP_P4_86428_41522493	NC_021165.1	Ca_kabuli_chr06	41522493	TT	CC	1946871867
SNP_P4_86429_41549768	NC_021165.1	Ca_kabuli_chr06	41549768	GG	TT	1946871869
SNP_P4_86430_41559634	NC_021165.1	Ca_kabuli_chr06	41559634	CC	TT	1946871871
SNP_P4_86431_41573549	NC_021165.1	Ca_kabuli_chr06	41573549	TT	CC	1946871873
SNP_P4_86432_41573697	NC_021165.1	Ca_kabuli_chr06	41573697	GG	TT	1946871875
SNP_P4_86433_41573699	NC_021165.1	Ca_kabuli_chr06	41573699	AA	GG	1946871877
SNP_P4_86434_41573792	NC_021165.1	Ca_kabuli_chr06	41573792	GG	AA	1946871879
SNP_P4_86435_41573798	NC_021165.1	Ca_kabuli_chr06	41573798	AA	GG	1946871881
SNP_P4_86436_41573808	NC_021165.1	Ca_kabuli_chr06	41573808	AA	TT	1946871883
SNP_P4_86437_41574151	NC_021165.1	Ca_kabuli_chr06	41574151	AA	GG	1946871885
SNP_P4_86438_41574185	NC_021165.1	Ca_kabuli_chr06	41574185	TT	AA	1946871887
SNP_P4_86441_41574431	NC_021165.1	Ca_kabuli_chr06	41574431	CC	AA	1946871889
SNP_P4_86442_41574457	NC_021165.1	Ca_kabuli_chr06	41574457	TT	CC	1946871891
SNP_P4_86443_41574589	NC_021165.1	Ca_kabuli_chr06	41574589	AA	TT	1946871893
SNP_P4_86444_41608131	NC_021165.1	Ca_kabuli_chr06	41608131	CC	TT	1946871896
SNP_P4_86446_41617228	NC_021165.1	Ca_kabuli_chr06	41617228	GG	AA	1946871898
SNP_P4_86447_41643552	NC_021165.1	Ca_kabuli_chr06	41643552	GG	AA	1946871900
SNP_P4_86448_41648171	NC_021165.1	Ca_kabuli_chr06	41648171	GG	TT	1946871902
SNP_P4_86449_41653680	NC_021165.1	Ca_kabuli_chr06	41653680	TT	GG	1946871904
SNP_P4_86450_41654361	NC_021165.1	Ca_kabuli_chr06	41654361	AA	GG	1946871906
SNP_P4_86451_41654678	NC_021165.1	Ca_kabuli_chr06	41654678	TT	AA	1946871908
SNP_P4_86452_41654699	NC_021165.1	Ca_kabuli_chr06	41654699	AA	TT	1946871910
SNP_P4_86453_41654726	NC_021165.1	Ca_kabuli_chr06	41654726	AA	CC	1946871912

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_86455_41654972	NC_021165.1	Ca_kabuli_chr06	41654972	CC	TT	1946871916
SNP_P4_86456_41655587	NC_021165.1	Ca_kabuli_chr06	41655587	TT	AA	1946871918
SNP_P4_86457_41656240	NC_021165.1	Ca_kabuli_chr06	41656240	CC	TT	1946871920
SNP_P4_86458_41656963	NC_021165.1	Ca_kabuli_chr06	41656963	TT	GG	1946871923
SNP_P4_86459_41657226	NC_021165.1	Ca_kabuli_chr06	41657226	CC	TT	1946871925
SNP_P4_86460_41658087	NC_021165.1	Ca_kabuli_chr06	41658087	AA	GG	1946871927
SNP_P4_86461_41658962	NC_021165.1	Ca_kabuli_chr06	41658962	AA	CC	1946871929
SNP_P4_86462_41659251	NC_021165.1	Ca_kabuli_chr06	41659251	GG	AA	1946871931
SNP_P4_86463_41659380	NC_021165.1	Ca_kabuli_chr06	41659380	TT	CC	1946871933
SNP_P4_86465_41659773	NC_021165.1	Ca_kabuli_chr06	41659773	AA	GG	1946871935
SNP_P4_86466_41660675	NC_021165.1	Ca_kabuli_chr06	41660675	GG	AA	1946871937
SNP_P4_86467_41660679	NC_021165.1	Ca_kabuli_chr06	41660679	AA	TT	1946871938
SNP_P4_86468_41660936	NC_021165.1	Ca_kabuli_chr06	41660936	CC	TT	1946871940
SNP_P4_86469_41661628	NC_021165.1	Ca_kabuli_chr06	41661628	GG	TT	1946871942
SNP_P4_86470_41661653	NC_021165.1	Ca_kabuli_chr06	41661653	CC	TT	1946871944
SNP_P4_86472_41668610	NC_021165.1	Ca_kabuli_chr06	41668610	AA	GG	1946871946
SNP_P4_86475_41679434	NC_021165.1	Ca_kabuli_chr06	41679434	CC	AA	1946871948
SNP_P4_86476_41679451	NC_021165.1	Ca_kabuli_chr06	41679451	GG	AA	1946871950
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SNP_P4_86478_41681179	NC_021165.1	Ca_kabuli_chr06	41681179	TT	AA	1946871954
SNP_P4_86479_41681191	NC_021165.1	Ca_kabuli_chr06	41681191	GG	AA	1946871956
SNP_P4_86480_41681360	NC_021165.1	Ca_kabuli_chr06	41681360	TT	CC	1946871958
SNP_P4_86481_41687165	NC_021165.1	Ca_kabuli_chr06	41687165	GG	CC	1946871960
SNP_P4_86482_41693514	NC_021165.1	Ca_kabuli_chr06	41693514	CC	GG	1946871962
SNP_P4_86483_41706510	NC_021165.1	Ca_kabuli_chr06	41706510	GG	AA	1946871964
SNP_P4_86484_41706560	NC_021165.1	Ca_kabuli_chr06	41706560	GG	AA	1946871965
SNP_P4_86485_41706635	NC_021165.1	Ca_kabuli_chr06	41706635	CC	AA	1946871967
SNP_P4_86486_41706640	NC_021165.1	Ca_kabuli_chr06	41706640	TT	AA	1946871969
SNP_P4_86487_41706983	NC_021165.1	Ca_kabuli_chr06	41706983	AA	GG	1946871971
SNP_P4_86488_41726126	NC_021165.1	Ca_kabuli_chr06	41726126	GG	AA	1946871973
SNP_P4_86489_41726127	NC_021165.1	Ca_kabuli_chr06	41726127	CC	TT	1946871975
SNP_P4_86490_41726147	NC_021165.1	Ca_kabuli_chr06	41726147	AA	GG	1946871977
SNP_P4_86491_41726431	NC_021165.1	Ca_kabuli_chr06	41726431	TT	GG	1946871979
SNP_P4_86492_41743221	NC_021165.1	Ca_kabuli_chr06	41743221	CC	TT	1946871981
SNP_P4_86493_41743306	NC_021165.1	Ca_kabuli_chr06	41743306	GG	AA	1946871983
SNP_P4_86494_41743388	NC_021165.1	Ca_kabuli_chr06	41743388	AA	GG	1946871985
SNP_P4_86495_41743574	NC_021165.1	Ca_kabuli_chr06	41743574	TT	CC	1946871987
SNP_P4_86496_41743678	NC_021165.1	Ca_kabuli_chr06	41743678	AA	CC	1946871989
SNP_P4_86497_41743714	NC_021165.1	Ca_kabuli_chr06	41743714	CC	TT	1946871990
SNP_P4_86498_41743723	NC_021165.1	Ca_kabuli_chr06	41743723	AA	GG	1946871992
SNP_P4_86499_41743744	NC_021165.1	Ca_kabuli_chr06	41743744	TT	CC	1946871994

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_86501_41755546	NC_021165.1	Ca_kabuli_chr06	41755546	GG	AA	1946871998
SNP_P4_86502_41755589	NC_021165.1	Ca_kabuli_chr06	41755589	TT	CC	1946872000
SNP_P4_86503_41755590	NC_021165.1	Ca_kabuli_chr06	41755590	TT	AA	1946872002
SNP_P4_86504_41772237	NC_021165.1	Ca_kabuli_chr06	41772237	CC	GG	1946872003
SNP_P4_86506_41803705	NC_021165.1	Ca_kabuli_chr06	41803705	TT	AA	1946872005
SNP_P4_86507_41828396	NC_021165.1	Ca_kabuli_chr06	41828396	AA	GG	1946872007
SNP_P4_86508_41844046	NC_021165.1	Ca_kabuli_chr06	41844046	CC	TT	1946872009
SNP_P4_86509_41856308	NC_021165.1	Ca_kabuli_chr06	41856308	CC	TT	1946872011
SNP_P4_86510_41856348	NC_021165.1	Ca_kabuli_chr06	41856348	CC	TT	1946872013
SNP_P4_86511_41856350	NC_021165.1	Ca_kabuli_chr06	41856350	AA	TT	1946872015
SNP_P4_86512_41856360	NC_021165.1	Ca_kabuli_chr06	41856360	AA	TT	1946872017
SNP_P4_86513_41856366	NC_021165.1	Ca_kabuli_chr06	41856366	TT	AA	1946872019
SNP_P4_86514_41856400	NC_021165.1	Ca_kabuli_chr06	41856400	TT	CC	1946872021
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SNP_P4_86516_41856421	NC_021165.1	Ca_kabuli_chr06	41856421	CC	TT	1946872025
SNP_P4_86518_41856424	NC_021165.1	Ca_kabuli_chr06	41856424	CC	AA	1946872027
SNP_P4_86519_41856465	NC_021165.1	Ca_kabuli_chr06	41856465	AA	GG	1946872028
SNP_P4_86520_41856494	NC_021165.1	Ca_kabuli_chr06	41856494	AA	GG	1946872030
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SNP_P4_86522_41856915	NC_021165.1	Ca_kabuli_chr06	41856915	TT	AA	1946872034
SNP_P4_86523_41860519	NC_021165.1	Ca_kabuli_chr06	41860519	TT	CC	1946872036
SNP_P4_86524_41871770	NC_021165.1	Ca_kabuli_chr06	41871770	TT	CC	1946872038
SNP_P4_86525_41873252	NC_021165.1	Ca_kabuli_chr06	41873252	CC	TT	1946872040
SNP_P4_86526_41873619	NC_021165.1	Ca_kabuli_chr06	41873619	TT	GG	1946872042
SNP_P4_86527_41873990	NC_021165.1	Ca_kabuli_chr06	41873990	TT	AA	1946872044
SNP_P4_86528_41874579	NC_021165.1	Ca_kabuli_chr06	41874579	TT	CC	1946872046
SNP_P4_86530_41875027	NC_021165.1	Ca_kabuli_chr06	41875027	GG	TT	1946872048
SNP_P4_86531_41875103	NC_021165.1	Ca_kabuli_chr06	41875103	TT	CC	1946872050
SNP_P4_86532_41900299	NC_021165.1	Ca_kabuli_chr06	41900299	CC	TT	1946872052
SNP_P4_86535_41955253	NC_021165.1	Ca_kabuli_chr06	41955253	CC	TT	1946872054
SNP_P4_86537_41960485	NC_021165.1	Ca_kabuli_chr06	41960485	AA	TT	1946872056
SNP_P4_86538_41960518	NC_021165.1	Ca_kabuli_chr06	41960518	CC	TT	1946872058
SNP_P4_86539_41960543	NC_021165.1	Ca_kabuli_chr06	41960543	GG	AA	1946872060
SNP_P4_86540_41970025	NC_021165.1	Ca_kabuli_chr06	41970025	AA	GG	1946872062
SNP_P4_86541_41990627	NC_021165.1	Ca_kabuli_chr06	41990627	TT	AA	1946872064
SNP_P4_86542_42005319	NC_021165.1	Ca_kabuli_chr06	42005319	CC	GG	1946872066
SNP_P4_86543_42011670	NC_021165.1	Ca_kabuli_chr06	42011670	TT	CC	1946872068
SNP_P4_86544_42017302	NC_021165.1	Ca_kabuli_chr06	42017302	TT	CC	1946872070
SNP_P4_86545_42017886	NC_021165.1	Ca_kabuli_chr06	42017886	GG	AA	1946872072
SNP_P4_86546_42017931	NC_021165.1	Ca_kabuli_chr06	42017931	AA	GG	1946872074
SNP_P4_86547_42019994	NC_021165.1	Ca_kabuli_chr06	42019994	CC	TT	1946872076

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_86549_42020022	NC_021165.1	Ca_kabuli_chr06	42020022	TT	AA	1946872080
SNP_P4_86550_42020083	NC_021165.1	Ca_kabuli_chr06	42020083	CC	TT	1946872082
SNP_P4_86551_42020091	NC_021165.1	Ca_kabuli_chr06	42020091	AA	GG	1946872084
SNP_P4_86552_42020463	NC_021165.1	Ca_kabuli_chr06	42020463	AA	GG	1946872086
SNP_P4_86553_42020494	NC_021165.1	Ca_kabuli_chr06	42020494	CC	GG	1946872088
SNP_P4_86554_42020503	NC_021165.1	Ca_kabuli_chr06	42020503	TT	GG	1946872090
SNP_P4_86555_42032525	NC_021165.1	Ca_kabuli_chr06	42032525	GG	CC	1946872092
SNP_P4_86556_42032535	NC_021165.1	Ca_kabuli_chr06	42032535	GG	AA	1946872094
SNP_P4_86557_42033434	NC_021165.1	Ca_kabuli_chr06	42033434	TT	GG	1946872096
SNP_P4_86558_42033656	NC_021165.1	Ca_kabuli_chr06	42033656	AA	GG	1946872097
SNP_P4_86559_42033667	NC_021165.1	Ca_kabuli_chr06	42033667	CC	AA	1946872099
SNP_P4_86560_42035091	NC_021165.1	Ca_kabuli_chr06	42035091	TT	CC	1946872101
SNP_P4_86561_42035137	NC_021165.1	Ca_kabuli_chr06	42035137	TT	GG	1946872103
SNP_P4_86562_42035176	NC_021165.1	Ca_kabuli_chr06	42035176	AA	GG	1946872105
SNP_P4_86563_42061832	NC_021165.1	Ca_kabuli_chr06	42061832	TT	CC	1946872107
SNP_P4_86564_42087288	NC_021165.1	Ca_kabuli_chr06	42087288	CC	AA	1946872109
SNP_P4_86565_42088327	NC_021165.1	Ca_kabuli_chr06	42088327	CC	TT	1946872111
SNP_P4_86566_42101060	NC_021165.1	Ca_kabuli_chr06	42101060	TT	CC	1946872113
SNP_P4_86567_42120706	NC_021165.1	Ca_kabuli_chr06	42120706	AA	CC	1946872115
SNP_P4_86569_42146136	NC_021165.1	Ca_kabuli_chr06	42146136	TT	CC	1946872117
SNP_P4_86570_42171277	NC_021165.1	Ca_kabuli_chr06	42171277	AA	CC	1946872119
SNP_P4_86571_42182809	NC_021165.1	Ca_kabuli_chr06	42182809	AA	GG	1946872120
SNP_P4_86572_42182815	NC_021165.1	Ca_kabuli_chr06	42182815	TT	AA	1946872122
SNP_P4_86573_42182817	NC_021165.1	Ca_kabuli_chr06	42182817	GG	TT	1946872124
SNP_P4_86574_42208281	NC_021165.1	Ca_kabuli_chr06	42208281	CC	TT	1946872126
SNP_P4_86575_42208667	NC_021165.1	Ca_kabuli_chr06	42208667	CC	TT	1946872129
SNP_P4_86576_42208684	NC_021165.1	Ca_kabuli_chr06	42208684	GG	AA	1946872131
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SNP_P4_86578_42208691	NC_021165.1	Ca_kabuli_chr06	42208691	TT	CC	1946872135
SNP_P4_86579_42208694	NC_021165.1	Ca_kabuli_chr06	42208694	AA	CC	1946872137
SNP_P4_86580_42208712	NC_021165.1	Ca_kabuli_chr06	42208712	GG	AA	1946872139
SNP_P4_86581_42208739	NC_021165.1	Ca_kabuli_chr06	42208739	AA	GG	1946872141
SNP_P4_86582_42208775	NC_021165.1	Ca_kabuli_chr06	42208775	CC	TT	1946872143
SNP_P4_86583_42237577	NC_021165.1	Ca_kabuli_chr06	42237577	CC	TT	1946872145
SNP_P4_86584_42239998	NC_021165.1	Ca_kabuli_chr06	42239998	AA	GG	1946872147
SNP_P4_86586_42269942	NC_021165.1	Ca_kabuli_chr06	42269942	TT	CC	1946872149
SNP_P4_86587_42269951	NC_021165.1	Ca_kabuli_chr06	42269951	GG	AA	1946872151
SNP_P4_86589_42342666	NC_021165.1	Ca_kabuli_chr06	42342666	CC	TT	1946872153
SNP_P4_86590_42342733	NC_021165.1	Ca_kabuli_chr06	42342733	TT	CC	1946872155
SNP_P4_86591_42353425	NC_021165.1	Ca_kabuli_chr06	42353425	GG	AA	1946872157
SNP_P4_86592_42353475	NC_021165.1	Ca_kabuli_chr06	42353475	AA	GG	1946872159

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_86595_42386552	NC_021165.1	Ca_kabuli_chr06	42386552	GG	CC	1946872163
SNP_P4_86596_42391538	NC_021165.1	Ca_kabuli_chr06	42391538	TT	CC	1946872165
SNP_P4_86597_42391544	NC_021165.1	Ca_kabuli_chr06	42391544	CC	GG	1946872167
SNP_P4_86598_42391558	NC_021165.1	Ca_kabuli_chr06	42391558	AA	TT	1946872169
SNP_P4_86599_42391846	NC_021165.1	Ca_kabuli_chr06	42391846	GG	AA	1946872171
SNP_P4_86600_42391854	NC_021165.1	Ca_kabuli_chr06	42391854	GG	AA	1946872173
SNP_P4_86601_42391862	NC_021165.1	Ca_kabuli_chr06	42391862	GG	TT	1946872175
SNP_P4_86602_42396638	NC_021165.1	Ca_kabuli_chr06	42396638	TT	GG	1946872177
SNP_P4_86603_42396672	NC_021165.1	Ca_kabuli_chr06	42396672	GG	AA	1946872179
SNP_P4_86604_42396734	NC_021165.1	Ca_kabuli_chr06	42396734	TT	GG	1946872181
SNP_P4_86605_42396782	NC_021165.1	Ca_kabuli_chr06	42396782	TT	AA	1946872183
SNP_P4_86606_42396882	NC_021165.1	Ca_kabuli_chr06	42396882	TT	GG	1946872185
SNP_P4_86607_42397053	NC_021165.1	Ca_kabuli_chr06	42397053	TT	AA	1946872187
SNP_P4_86608_42397080	NC_021165.1	Ca_kabuli_chr06	42397080	TT	AA	1946872189
SNP_P4_86609_42397089	NC_021165.1	Ca_kabuli_chr06	42397089	GG	AA	1946872191
SNP_P4_86610_42397157	NC_021165.1	Ca_kabuli_chr06	42397157	CC	AA	1946872193
SNP_P4_86611_42397203	NC_021165.1	Ca_kabuli_chr06	42397203	AA	TT	1946872195
SNP_P4_86612_42397206	NC_021165.1	Ca_kabuli_chr06	42397206	CC	TT	1946872197
SNP_P4_86613_42397225	NC_021165.1	Ca_kabuli_chr06	42397225	CC	TT	1946872199
SNP_P4_86614_42397299	NC_021165.1	Ca_kabuli_chr06	42397299	TT	CC	1946872201
SNP_P4_86615_42397333	NC_021165.1	Ca_kabuli_chr06	42397333	AA	CC	1946872203
SNP_P4_86616_42398582	NC_021165.1	Ca_kabuli_chr06	42398582	TT	CC	1946872205
SNP_P4_86617_42398670	NC_021165.1	Ca_kabuli_chr06	42398670	AA	TT	1946872207
SNP_P4_86619_42398689	NC_021165.1	Ca_kabuli_chr06	42398689	CC	TT	1946872209
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SNP_P4_86623_42437451	NC_021165.1	Ca_kabuli_chr06	42437451	TT	CC	1946872215
SNP_P4_86624_42437490	NC_021165.1	Ca_kabuli_chr06	42437490	AA	CC	1946872217
SNP_P4_86625_42444288	NC_021165.1	Ca_kabuli_chr06	42444288	AA	GG	1946872218
SNP_P4_86626_42445787	NC_021165.1	Ca_kabuli_chr06	42445787	CC	TT	1946872220
SNP_P4_86627_42454543	NC_021165.1	Ca_kabuli_chr06	42454543	AA	CC	1946872222
SNP_P4_86628_42461278	NC_021165.1	Ca_kabuli_chr06	42461278	AA	GG	1946872224
SNP_P4_86629_42461347	NC_021165.1	Ca_kabuli_chr06	42461347	AA	TT	1946872226
SNP_P4_86630_42461544	NC_021165.1	Ca_kabuli_chr06	42461544	TT	CC	1946872228
SNP_P4_86631_42461688	NC_021165.1	Ca_kabuli_chr06	42461688	GG	TT	1946872230
SNP_P4_86632_42461700	NC_021165.1	Ca_kabuli_chr06	42461700	TT	CC	1946872232
SNP_P4_86633_42464604	NC_021165.1	Ca_kabuli_chr06	42464604	CC	TT	1946872234
SNP_P4_86634_42464623	NC_021165.1	Ca_kabuli_chr06	42464623	AA	TT	1946872236
SNP_P4_86635_42464626	NC_021165.1	Ca_kabuli_chr06	42464626	CC	TT	1946872238
SNP_P4_86636_42464634	NC_021165.1	Ca_kabuli_chr06	42464634	CC	GG	1946872240
SNP_P4_86637_42464643	NC_021165.1	Ca_kabuli_chr06	42464643	AA	GG	1946872242

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_86639_42464710	NC_021165.1	Ca_kabuli_chr06	42464710	GG	AA	1946872246
SNP_P4_86640_42464888	NC_021165.1	Ca_kabuli_chr06	42464888	GG	AA	1946872248
SNP_P4_86641_42464911	NC_021165.1	Ca_kabuli_chr06	42464911	TT	AA	1946872250
SNP_P4_86642_42464941	NC_021165.1	Ca_kabuli_chr06	42464941	AA	CC	1946872252
SNP_P4_86644_42465002	NC_021165.1	Ca_kabuli_chr06	42465002	AA	TT	1946872254
SNP_P4_86645_42470626	NC_021165.1	Ca_kabuli_chr06	42470626	AA	CC	1946872256
SNP_P4_86646_42473804	NC_021165.1	Ca_kabuli_chr06	42473804	GG	AA	1946872258
SNP_P4_86647_42473817	NC_021165.1	Ca_kabuli_chr06	42473817	CC	TT	1946872260
SNP_P4_86648_42473868	NC_021165.1	Ca_kabuli_chr06	42473868	CC	GG	1946872262
SNP_P4_86649_42473869	NC_021165.1	Ca_kabuli_chr06	42473869	AA	GG	1946872264
SNP_P4_86650_42473874	NC_021165.1	Ca_kabuli_chr06	42473874	GG	AA	1946872265
SNP_P4_86651_42473878	NC_021165.1	Ca_kabuli_chr06	42473878	GG	TT	1946872266
SNP_P4_86652_42473916	NC_021165.1	Ca_kabuli_chr06	42473916	GG	AA	1946872267
SNP_P4_86653_42473978	NC_021165.1	Ca_kabuli_chr06	42473978	GG	TT	1946872269
SNP_P4_86654_42474207	NC_021165.1	Ca_kabuli_chr06	42474207	CC	AA	1946872271
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SNP_P4_86657_42478455	NC_021165.1	Ca_kabuli_chr06	42478455	TT	AA	1946872277
SNP_P4_86659_42481073	NC_021165.1	Ca_kabuli_chr06	42481073	CC	TT	1946872279
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SNP_P4_86661_42481155	NC_021165.1	Ca_kabuli_chr06	42481155	GG	AA	1946872283
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SNP_P4_86663_42482637	NC_021165.1	Ca_kabuli_chr06	42482637	AA	CC	1946872287
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SNP_P4_86667_42527978	NC_021165.1	Ca_kabuli_chr06	42527978	TT	CC	1946872295
SNP_P4_86668_42534655	NC_021165.1	Ca_kabuli_chr06	42534655	AA	TT	1946872297
SNP_P4_86670_42591105	NC_021165.1	Ca_kabuli_chr06	42591105	CC	TT	1946872299
SNP_P4_86671_42602042	NC_021165.1	Ca_kabuli_chr06	42602042	GG	TT	1946872301
SNP_P4_86673_42618520	NC_021165.1	Ca_kabuli_chr06	42618520	GG	CC	1946872303
SNP_P4_86674_42625135	NC_021165.1	Ca_kabuli_chr06	42625135	GG	TT	1946872305
SNP_P4_86675_42625154	NC_021165.1	Ca_kabuli_chr06	42625154	GG	CC	1946872307
SNP_P4_86676_42625250	NC_021165.1	Ca_kabuli_chr06	42625250	CC	TT	1946872309
SNP_P4_86677_42625319	NC_021165.1	Ca_kabuli_chr06	42625319	AA	TT	1946872311
SNP_P4_86678_42625323	NC_021165.1	Ca_kabuli_chr06	42625323	TT	AA	1946872313
SNP_P4_86679_42625330	NC_021165.1	Ca_kabuli_chr06	42625330	TT	GG	1946872315
SNP_P4_86680_42625493	NC_021165.1	Ca_kabuli_chr06	42625493	TT	CC	1946872317
SNP_P4_86681_42625501	NC_021165.1	Ca_kabuli_chr06	42625501	AA	GG	1946872319
SNP_P4_86682_42625524	NC_021165.1	Ca_kabuli_chr06	42625524	GG	TT	1946872321
SNP_P4_86683_42625572	NC_021165.1	Ca_kabuli_chr06	42625572	AA	GG	1946872322

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_86685_42625664	NC_021165.1	Ca_kabuli_chr06	42625664	AA	GG	1946872326
SNP_P4_86686_42627676	NC_021165.1	Ca_kabuli_chr06	42627676	GG	AA	1946872328
SNP_P4_86687_42643159	NC_021165.1	Ca_kabuli_chr06	42643159	AA	GG	1946872330
SNP_P4_86688_42658551	NC_021165.1	Ca_kabuli_chr06	42658551	AA	GG	1946872332
SNP_P4_86689_42672504	NC_021165.1	Ca_kabuli_chr06	42672504	TT	AA	1946872334
SNP_P4_86690_42672505	NC_021165.1	Ca_kabuli_chr06	42672505	AA	TT	1946872336
SNP_P4_86691_42674025	NC_021165.1	Ca_kabuli_chr06	42674025	TT	GG	1946872338
SNP_P4_86692_42674026	NC_021165.1	Ca_kabuli_chr06	42674026	TT	AA	1946872340
SNP_P4_86693_42674037	NC_021165.1	Ca_kabuli_chr06	42674037	AA	TT	1946872342
SNP_P4_86694_42776166	NC_021165.1	Ca_kabuli_chr06	42776166	CC	TT	1946872344
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SNP_P4_86696_42859737	NC_021165.1	Ca_kabuli_chr06	42859737	GG	AA	1946872348
SNP_P4_86697_42859876	NC_021165.1	Ca_kabuli_chr06	42859876	AA	TT	1946872349
SNP_P4_86698_42859900	NC_021165.1	Ca_kabuli_chr06	42859900	GG	CC	1946872351
SNP_P4_86699_42863786	NC_021165.1	Ca_kabuli_chr06	42863786	TT	CC	1946872353
SNP_P4_86700_42896699	NC_021165.1	Ca_kabuli_chr06	42896699	TT	CC	1946872355
SNP_P4_86701_42896766	NC_021165.1	Ca_kabuli_chr06	42896766	TT	CC	1946872357
SNP_P4_86702_42899634	NC_021165.1	Ca_kabuli_chr06	42899634	AA	GG	1946872359
SNP_P4_86703_42907106	NC_021165.1	Ca_kabuli_chr06	42907106	GG	AA	1946872361
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SNP_P4_86705_42910051	NC_021165.1	Ca_kabuli_chr06	42910051	CC	TT	1946872365
SNP_P4_86706_42910086	NC_021165.1	Ca_kabuli_chr06	42910086	CC	TT	1946872367
SNP_P4_86707_42910547	NC_021165.1	Ca_kabuli_chr06	42910547	AA	GG	1946872369
SNP_P4_86708_42910601	NC_021165.1	Ca_kabuli_chr06	42910601	TT	AA	1946872371
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SNP_P4_86710_42937431	NC_021165.1	Ca_kabuli_chr06	42937431	AA	TT	1946872375
SNP_P4_86711_42937468	NC_021165.1	Ca_kabuli_chr06	42937468	AA	CC	1946872377
SNP_P4_86712_42937531	NC_021165.1	Ca_kabuli_chr06	42937531	CC	TT	1946872379
SNP_P4_86713_42937542	NC_021165.1	Ca_kabuli_chr06	42937542	CC	AA	1946872381
SNP_P4_86714_42937544	NC_021165.1	Ca_kabuli_chr06	42937544	CC	TT	1946872383
SNP_P4_86715_42937631	NC_021165.1	Ca_kabuli_chr06	42937631	CC	TT	1946872385
SNP_P4_86716_42938778	NC_021165.1	Ca_kabuli_chr06	42938778	CC	TT	1946872387
SNP_P4_86717_42939096	NC_021165.1	Ca_kabuli_chr06	42939096	TT	CC	1946872389
SNP_P4_86718_42939247	NC_021165.1	Ca_kabuli_chr06	42939247	CC	TT	1946872391
SNP_P4_86719_42939266	NC_021165.1	Ca_kabuli_chr06	42939266	TT	GG	1946872393
SNP_P4_86720_42939276	NC_021165.1	Ca_kabuli_chr06	42939276	CC	TT	1946872395
SNP_P4_86721_42939771	NC_021165.1	Ca_kabuli_chr06	42939771	TT	CC	1946872397
SNP_P4_86722_42939772	NC_021165.1	Ca_kabuli_chr06	42939772	GG	AA	1946872399
SNP_P4_86723_42940567	NC_021165.1	Ca_kabuli_chr06	42940567	CC	TT	1946872401
SNP_P4_86724_42940596	NC_021165.1	Ca_kabuli_chr06	42940596	AA	GG	1946872403
SNP_P4_86725_42944248	NC_021165.1	Ca_kabuli_chr06	42944248	GG	TT	1946872405

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_86726_42946717	NC_021165.1	Ca_kabuli_chr06	42946717	CC	AA	1946872407
SNP_P4_86727_42956171	NC_021165.1	Ca_kabuli_chr06	42956171	GG	AA	1946872409
SNP_P4_86728_42980677	NC_021165.1	Ca_kabuli_chr06	42980677	CC	TT	1946872411
SNP_P4_86729_42993882	NC_021165.1	Ca_kabuli_chr06	42993882	AA	GG	1946872413
SNP_P4_86730_42999720	NC_021165.1	Ca_kabuli_chr06	42999720	GG	AA	1946872415
SNP_P4_86731_43000072	NC_021165.1	Ca_kabuli_chr06	43000072	CC	AA	1946872417
SNP_P4_86732_43005044	NC_021165.1	Ca_kabuli_chr06	43005044	TT	CC	1946872419
SNP_P4_86733_43005050	NC_021165.1	Ca_kabuli_chr06	43005050	AA	TT	1946872421
SNP_P4_86734_43010751	NC_021165.1	Ca_kabuli_chr06	43010751	CC	TT	1946872423
SNP_P4_86735_43010896	NC_021165.1	Ca_kabuli_chr06	43010896	GG	AA	1946872425
SNP_P4_86736_43010930	NC_021165.1	Ca_kabuli_chr06	43010930	TT	AA	1946872427
SNP_P4_86737_43011015	NC_021165.1	Ca_kabuli_chr06	43011015	TT	GG	1946872429
SNP_P4_86738_43011198	NC_021165.1	Ca_kabuli_chr06	43011198	TT	AA	1946872431
SNP_P4_86739_43012021	NC_021165.1	Ca_kabuli_chr06	43012021	AA	TT	1946872433
SNP_P4_86740_43012049	NC_021165.1	Ca_kabuli_chr06	43012049	CC	TT	1946872435
SNP_P4_86741_43012614	NC_021165.1	Ca_kabuli_chr06	43012614	TT	AA	1946872437
SNP_P4_86742_43017241	NC_021165.1	Ca_kabuli_chr06	43017241	CC	TT	1946872439
SNP_P4_86743_43017246	NC_021165.1	Ca_kabuli_chr06	43017246	TT	AA	1946872441
SNP_P4_86744_43017264	NC_021165.1	Ca_kabuli_chr06	43017264	GG	CC	1946872443
SNP_P4_86745_43017282	NC_021165.1	Ca_kabuli_chr06	43017282	AA	CC	1946872445
SNP_P4_86746_43017283	NC_021165.1	Ca_kabuli_chr06	43017283	AA	CC	1946872447
SNP_P4_86747_43017343	NC_021165.1	Ca_kabuli_chr06	43017343	CC	AA	1946872449
SNP_P4_86748_43017344	NC_021165.1	Ca_kabuli_chr06	43017344	AA	CC	1946872451
SNP_P4_86749_43017614	NC_021165.1	Ca_kabuli_chr06	43017614	AA	TT	1946872453
SNP_P4_86751_43017670	NC_021165.1	Ca_kabuli_chr06	43017670	AA	CC	1946872455
SNP_P4_86752_43017691	NC_021165.1	Ca_kabuli_chr06	43017691	TT	CC	1946872457
SNP_P4_86753_43035633	NC_021165.1	Ca_kabuli_chr06	43035633	GG	CC	1946872459
SNP_P4_86754_43042922	NC_021165.1	Ca_kabuli_chr06	43042922	GG	AA	1946872461
SNP_P4_86755_43042931	NC_021165.1	Ca_kabuli_chr06	43042931	AA	TT	1946872463
SNP_P4_86756_43042933	NC_021165.1	Ca_kabuli_chr06	43042933	CC	AA	1946872465
SNP_P4_86757_43042934	NC_021165.1	Ca_kabuli_chr06	43042934	GG	AA	1946872467
SNP_P4_86758_43043060	NC_021165.1	Ca_kabuli_chr06	43043060	AA	GG	1946872469
SNP_P4_86760_43044580	NC_021165.1	Ca_kabuli_chr06	43044580	AA	GG	1946872471
SNP_P4_86761_43044783	NC_021165.1	Ca_kabuli_chr06	43044783	AA	TT	1946872473
SNP_P4_86762_43045628	NC_021165.1	Ca_kabuli_chr06	43045628	CC	TT	1946872475
SNP_P4_86763_43045643	NC_021165.1	Ca_kabuli_chr06	43045643	CC	AA	1946872477
SNP_P4_86764_43045682	NC_021165.1	Ca_kabuli_chr06	43045682	CC	AA	1946872479
SNP_P4_86765_43045713	NC_021165.1	Ca_kabuli_chr06	43045713	CC	TT	1946872481
SNP_P4_86766_43045785	NC_021165.1	Ca_kabuli_chr06	43045785	CC	TT	1946872483
SNP_P4_86767_43045847	NC_021165.1	Ca_kabuli_chr06	43045847	AA	GG	1946872485
SNP_P4_86768_43045901	NC_021165.1	Ca_kabuli_chr06	43045901	AA	GG	1946872487
SNP_P4_86769_43045902	NC_021165.1	Ca_kabuli_chr06	43045902	CC	GG	1946872489

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_86771_43045969	NC_021165.1	Ca_kabuli_chr06	43045969	TT	CC	1946872493
SNP_P4_86772_43045970	NC_021165.1	Ca_kabuli_chr06	43045970	GG	AA	1946872495
SNP_P4_86773_43045975	NC_021165.1	Ca_kabuli_chr06	43045975	GG	TT	1946872497
SNP_P4_86774_43050245	NC_021165.1	Ca_kabuli_chr06	43050245	GG	AA	1946872499
SNP_P4_86775_43052866	NC_021165.1	Ca_kabuli_chr06	43052866	CC	AA	1946872501
SNP_P4_86776_43053166	NC_021165.1	Ca_kabuli_chr06	43053166	AA	GG	1946872503
SNP_P4_86777_43058419	NC_021165.1	Ca_kabuli_chr06	43058419	AA	TT	1946872505
SNP_P4_86778_43058954	NC_021165.1	Ca_kabuli_chr06	43058954	AA	CC	1946872507
SNP_P4_86779_43059239	NC_021165.1	Ca_kabuli_chr06	43059239	TT	AA	1946872509
SNP_P4_86780_43059809	NC_021165.1	Ca_kabuli_chr06	43059809	GG	AA	1946872511
SNP_P4_86781_43060001	NC_021165.1	Ca_kabuli_chr06	43060001	CC	AA	1946872513
SNP_P4_86782_43060287	NC_021165.1	Ca_kabuli_chr06	43060287	TT	CC	1946872515
SNP_P4_86783_43060372	NC_021165.1	Ca_kabuli_chr06	43060372	CC	TT	1946872517
SNP_P4_86784_43060419	NC_021165.1	Ca_kabuli_chr06	43060419	TT	GG	1946872519
SNP_P4_86785_43060690	NC_021165.1	Ca_kabuli_chr06	43060690	CC	TT	1946872521
SNP_P4_86786_43060709	NC_021165.1	Ca_kabuli_chr06	43060709	CC	GG	1946872523
SNP_P4_86787_43060833	NC_021165.1	Ca_kabuli_chr06	43060833	TT	AA	1946872525
SNP_P4_86788_43061251	NC_021165.1	Ca_kabuli_chr06	43061251	CC	TT	1946872527
SNP_P4_86789_43061273	NC_021165.1	Ca_kabuli_chr06	43061273	AA	GG	1946872529
SNP_P4_86790_43062195	NC_021165.1	Ca_kabuli_chr06	43062195	TT	CC	1946872531
SNP_P4_86791_43062263	NC_021165.1	Ca_kabuli_chr06	43062263	GG	TT	1946872533
SNP_P4_86792_43064263	NC_021165.1	Ca_kabuli_chr06	43064263	GG	AA	1946872535
SNP_P4_86794_43064373	NC_021165.1	Ca_kabuli_chr06	43064373	CC	AA	1946872537
SNP_P4_86795_43064385	NC_021165.1	Ca_kabuli_chr06	43064385	AA	GG	1946872539
SNP_P4_86796_43064386	NC_021165.1	Ca_kabuli_chr06	43064386	CC	AA	1946872541
SNP_P4_86797_43064472	NC_021165.1	Ca_kabuli_chr06	43064472	TT	AA	1946872543
SNP_P4_86798_43064503	NC_021165.1	Ca_kabuli_chr06	43064503	TT	CC	1946872545
SNP_P4_86799_43064513	NC_021165.1	Ca_kabuli_chr06	43064513	CC	AA	1946872547
SNP_P4_86800_43064525	NC_021165.1	Ca_kabuli_chr06	43064525	AA	CC	1946872549
SNP_P4_86801_43064666	NC_021165.1	Ca_kabuli_chr06	43064666	AA	GG	1946872551
SNP_P4_86803_43064794	NC_021165.1	Ca_kabuli_chr06	43064794	TT	CC	1946872553
SNP_P4_86804_43065065	NC_021165.1	Ca_kabuli_chr06	43065065	AA	GG	1946872555
SNP_P4_86805_43065327	NC_021165.1	Ca_kabuli_chr06	43065327	GG	AA	1946872557
SNP_P4_86806_43066540	NC_021165.1	Ca_kabuli_chr06	43066540	AA	CC	1946872559
SNP_P4_86807_43070578	NC_021165.1	Ca_kabuli_chr06	43070578	TT	CC	1946872561
SNP_P4_86808_43071056	NC_021165.1	Ca_kabuli_chr06	43071056	CC	TT	1946872563
SNP_P4_86809_43072714	NC_021165.1	Ca_kabuli_chr06	43072714	AA	GG	1946872565
SNP_P4_86810_43072716	NC_021165.1	Ca_kabuli_chr06	43072716	TT	AA	1946872567
SNP_P4_86811_43076191	NC_021165.1	Ca_kabuli_chr06	43076191	CC	AA	1946872569
SNP_P4_86812_43076200	NC_021165.1	Ca_kabuli_chr06	43076200	CC	TT	1946872571
SNP_P4_86813_43076261	NC_021165.1	Ca_kabuli_chr06	43076261	TT	GG	1946872573

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_86815_43076929	NC_021165.1	Ca_kabuli_chr06	43076929	AA	GG	1946872577
SNP_P4_86816_43077738	NC_021165.1	Ca_kabuli_chr06	43077738	GG	AA	1946872579
SNP_P4_86817_43138283	NC_021165.1	Ca_kabuli_chr06	43138283	GG	TT	1946872580
SNP_P4_86819_43154162	NC_021165.1	Ca_kabuli_chr06	43154162	CC	TT	1946872582
SNP_P4_86820_43156397	NC_021165.1	Ca_kabuli_chr06	43156397	AA	CC	1946872584
SNP_P4_86821_43163240	NC_021165.1	Ca_kabuli_chr06	43163240	TT	AA	1946872586
SNP_P4_86822_43163243	NC_021165.1	Ca_kabuli_chr06	43163243	GG	CC	1946872588
SNP_P4_86823_43165903	NC_021165.1	Ca_kabuli_chr06	43165903	AA	TT	1946872590
SNP_P4_86824_43165909	NC_021165.1	Ca_kabuli_chr06	43165909	AA	GG	1946872592
SNP_P4_86825_43165910	NC_021165.1	Ca_kabuli_chr06	43165910	TT	GG	1946872594
SNP_P4_86826_43165962	NC_021165.1	Ca_kabuli_chr06	43165962	AA	CC	1946872596
SNP_P4_86827_43166369	NC_021165.1	Ca_kabuli_chr06	43166369	CC	TT	1946872598
SNP_P4_86828_43166391	NC_021165.1	Ca_kabuli_chr06	43166391	AA	GG	1946872600
SNP_P4_86829_43166413	NC_021165.1	Ca_kabuli_chr06	43166413	AA	CC	1946872602
SNP_P4_86830_43166488	NC_021165.1	Ca_kabuli_chr06	43166488	TT	CC	1946872604
SNP_P4_86831_43166561	NC_021165.1	Ca_kabuli_chr06	43166561	CC	TT	1946872606
SNP_P4_86832_43166568	NC_021165.1	Ca_kabuli_chr06	43166568	TT	AA	1946872608
SNP_P4_86833_43166604	NC_021165.1	Ca_kabuli_chr06	43166604	AA	GG	1946872610
SNP_P4_86834_43166627	NC_021165.1	Ca_kabuli_chr06	43166627	TT	CC	1946872612
SNP_P4_86835_43166628	NC_021165.1	Ca_kabuli_chr06	43166628	AA	TT	1946872614
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SNP_P4_86837_43166657	NC_021165.1	Ca_kabuli_chr06	43166657	AA	TT	1946872618
SNP_P4_86838_43166752	NC_021165.1	Ca_kabuli_chr06	43166752	TT	GG	1946872620
SNP_P4_86839_43166760	NC_021165.1	Ca_kabuli_chr06	43166760	CC	AA	1946872622
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SNP_P4_86841_43166992	NC_021165.1	Ca_kabuli_chr06	43166992	GG	TT	1946872626
SNP_P4_86842_43167304	NC_021165.1	Ca_kabuli_chr06	43167304	CC	GG	1946872628
SNP_P4_86843_43167504	NC_021165.1	Ca_kabuli_chr06	43167504	TT	CC	1946872630
SNP_P4_86844_43167534	NC_021165.1	Ca_kabuli_chr06	43167534	TT	GG	1946872632
SNP_P4_86845_43167552	NC_021165.1	Ca_kabuli_chr06	43167552	AA	TT	1946872634
SNP_P4_86846_43167591	NC_021165.1	Ca_kabuli_chr06	43167591	GG	TT	1946872636
SNP_P4_86847_43167625	NC_021165.1	Ca_kabuli_chr06	43167625	CC	GG	1946872638
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SNP_P4_86849_43167635	NC_021165.1	Ca_kabuli_chr06	43167635	GG	TT	1946872642
SNP_P4_86850_43167663	NC_021165.1	Ca_kabuli_chr06	43167663	GG	CC	1946872644
SNP_P4_86851_43167688	NC_021165.1	Ca_kabuli_chr06	43167688	TT	AA	1946872646
SNP_P4_86852_43167952	NC_021165.1	Ca_kabuli_chr06	43167952	TT	CC	1946872648
SNP_P4_86853_43167963	NC_021165.1	Ca_kabuli_chr06	43167963	CC	GG	1946872650
SNP_P4_86854_43168284	NC_021165.1	Ca_kabuli_chr06	43168284	CC	AA	1946872652
SNP_P4_86855_43168635	NC_021165.1	Ca_kabuli_chr06	43168635	AA	TT	1946872654
SNP_P4_86856_43168704	NC_021165.1	Ca_kabuli_chr06	43168704	CC	TT	1946872656

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_86858_43168762	NC_021165.1	Ca_kabuli_chr06	43168762	TT	CC	1946872660
SNP_P4_86859_43168763	NC_021165.1	Ca_kabuli_chr06	43168763	TT	AA	1946872662
SNP_P4_86860_43168806	NC_021165.1	Ca_kabuli_chr06	43168806	AA	TT	1946872664
SNP_P4_86861_43168832	NC_021165.1	Ca_kabuli_chr06	43168832	GG	AA	1946872666
SNP_P4_86862_43168835	NC_021165.1	Ca_kabuli_chr06	43168835	CC	GG	1946872668
SNP_P4_86863_43168901	NC_021165.1	Ca_kabuli_chr06	43168901	AA	GG	1946872670
SNP_P4_86864_43168955	NC_021165.1	Ca_kabuli_chr06	43168955	CC	TT	1946872672
SNP_P4_86865_43168971	NC_021165.1	Ca_kabuli_chr06	43168971	TT	GG	1946872674
SNP_P4_86866_43168979	NC_021165.1	Ca_kabuli_chr06	43168979	AA	GG	1946872676
SNP_P4_86867_43169168	NC_021165.1	Ca_kabuli_chr06	43169168	CC	TT	1946872678
SNP_P4_86868_43169184	NC_021165.1	Ca_kabuli_chr06	43169184	TT	CC	1946872680
SNP_P4_86869_43169366	NC_021165.1	Ca_kabuli_chr06	43169366	AA	CC	1946872682
SNP_P4_86870_43169394	NC_021165.1	Ca_kabuli_chr06	43169394	TT	CC	1946872684
SNP_P4_86871_43169427	NC_021165.1	Ca_kabuli_chr06	43169427	CC	TT	1946872686
SNP_P4_86872_43175440	NC_021165.1	Ca_kabuli_chr06	43175440	GG	TT	1946872688
SNP_P4_86873_43176146	NC_021165.1	Ca_kabuli_chr06	43176146	TT	CC	1946872690
SNP_P4_86874_43176175	NC_021165.1	Ca_kabuli_chr06	43176175	GG	AA	1946872692
SNP_P4_86875_43176244	NC_021165.1	Ca_kabuli_chr06	43176244	GG	AA	1946872694
SNP_P4_86876_43176313	NC_021165.1	Ca_kabuli_chr06	43176313	TT	CC	1946872696
SNP_P4_86877_43659945	NC_021165.1	Ca_kabuli_chr06	43659945	TT	AA	1946872698
SNP_P4_86878_43685995	NC_021165.1	Ca_kabuli_chr06	43685995	GG	AA	1946872700
SNP_P4_86879_43707456	NC_021165.1	Ca_kabuli_chr06	43707456	TT	CC	1946872702
SNP_P4_86880_43707724	NC_021165.1	Ca_kabuli_chr06	43707724	TT	CC	1946872704
SNP_P4_86881_43707760	NC_021165.1	Ca_kabuli_chr06	43707760	TT	CC	1946872706
SNP_P4_86882_43707827	NC_021165.1	Ca_kabuli_chr06	43707827	TT	CC	1946872708
SNP_P4_86883_43708077	NC_021165.1	Ca_kabuli_chr06	43708077	GG	AA	1946872710
SNP_P4_86884_43710885	NC_021165.1	Ca_kabuli_chr06	43710885	CC	TT	1946872712
SNP_P4_86885_43713732	NC_021165.1	Ca_kabuli_chr06	43713732	GG	AA	1946872714
SNP_P4_86886_43755510	NC_021165.1	Ca_kabuli_chr06	43755510	TT	CC	1946872716
SNP_P4_86887_43755783	NC_021165.1	Ca_kabuli_chr06	43755783	CC	TT	1946872718
SNP_P4_86888_43770276	NC_021165.1	Ca_kabuli_chr06	43770276	AA	TT	1946872720
SNP_P4_86889_43770287	NC_021165.1	Ca_kabuli_chr06	43770287	AA	CC	1946872722
SNP_P4_86890_43770297	NC_021165.1	Ca_kabuli_chr06	43770297	TT	CC	1946872724
SNP_P4_86891_43775356	NC_021165.1	Ca_kabuli_chr06	43775356	GG	TT	1946872726
SNP_P4_86892_43796140	NC_021165.1	Ca_kabuli_chr06	43796140	CC	GG	1946872728
SNP_P4_86893_43808412	NC_021165.1	Ca_kabuli_chr06	43808412	CC	TT	1946872730
SNP_P4_86894_43842506	NC_021165.1	Ca_kabuli_chr06	43842506	GG	AA	1946872732
SNP_P4_86895_43842574	NC_021165.1	Ca_kabuli_chr06	43842574	CC	TT	1946872734
SNP_P4_86896_43842588	NC_021165.1	Ca_kabuli_chr06	43842588	GG	AA	1946872736
SNP_P4_86897_43842589	NC_021165.1	Ca_kabuli_chr06	43842589	AA	GG	1946872738
SNP_P4_86898_43842615	NC_021165.1	Ca_kabuli_chr06	43842615	GG	CC	1946872740

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_86901_43842960	NC_021165.1	Ca_kabuli_chr06	43842960	TT	CC	1946872744
SNP_P4_86902_43847697	NC_021165.1	Ca_kabuli_chr06	43847697	TT	AA	1946872746
SNP_P4_86903_43847701	NC_021165.1	Ca_kabuli_chr06	43847701	TT	CC	1946872748
SNP_P4_86904_43847714	NC_021165.1	Ca_kabuli_chr06	43847714	AA	TT	1946872750
SNP_P4_86905_43847768	NC_021165.1	Ca_kabuli_chr06	43847768	TT	AA	1946872752
SNP_P4_86906_43880740	NC_021165.1	Ca_kabuli_chr06	43880740	AA	GG	1946872754
SNP_P4_86907_43880973	NC_021165.1	Ca_kabuli_chr06	43880973	CC	AA	1946872756
SNP_P4_86908_43881022	NC_021165.1	Ca_kabuli_chr06	43881022	AA	GG	1946872758
SNP_P4_86909_43881056	NC_021165.1	Ca_kabuli_chr06	43881056	GG	TT	1946872760
SNP_P4_86910_43881350	NC_021165.1	Ca_kabuli_chr06	43881350	AA	GG	1946872762
SNP_P4_86911_43889896	NC_021165.1	Ca_kabuli_chr06	43889896	TT	CC	1946872764
SNP_P4_86912_43889962	NC_021165.1	Ca_kabuli_chr06	43889962	GG	AA	1946872766
SNP_P4_86913_43890011	NC_021165.1	Ca_kabuli_chr06	43890011	TT	CC	1946872768
SNP_P4_86914_43890149	NC_021165.1	Ca_kabuli_chr06	43890149	TT	CC	1946872770
SNP_P4_86915_43890184	NC_021165.1	Ca_kabuli_chr06	43890184	AA	TT	1946872772
SNP_P4_86916_43890333	NC_021165.1	Ca_kabuli_chr06	43890333	AA	CC	1946872774
SNP_P4_86917_43890339	NC_021165.1	Ca_kabuli_chr06	43890339	TT	CC	1946872776
SNP_P4_86918_43890506	NC_021165.1	Ca_kabuli_chr06	43890506	GG	AA	1946872778
SNP_P4_86920_43909309	NC_021165.1	Ca_kabuli_chr06	43909309	CC	AA	1946872780
SNP_P4_86921_43909347	NC_021165.1	Ca_kabuli_chr06	43909347	TT	GG	1946872782
SNP_P4_86922_43909404	NC_021165.1	Ca_kabuli_chr06	43909404	AA	TT	1946872784
SNP_P4_86923_43909405	NC_021165.1	Ca_kabuli_chr06	43909405	AA	CC	1946872786
SNP_P4_86924_43909406	NC_021165.1	Ca_kabuli_chr06	43909406	CC	TT	1946872788
SNP_P4_86925_43909407	NC_021165.1	Ca_kabuli_chr06	43909407	TT	GG	1946872790
SNP_P4_86926_43909413	NC_021165.1	Ca_kabuli_chr06	43909413	GG	AA	1946872792
SNP_P4_86929_44003854	NC_021165.1	Ca_kabuli_chr06	44003854	CC	AA	1946872794
SNP_P4_86930_44011268	NC_021165.1	Ca_kabuli_chr06	44011268	AA	GG	1946872796
SNP_P4_86931_44077281	NC_021165.1	Ca_kabuli_chr06	44077281	TT	CC	1946872798
SNP_P4_86932_44117407	NC_021165.1	Ca_kabuli_chr06	44117407	GG	AA	1946872800
SNP_P4_86933_44127634	NC_021165.1	Ca_kabuli_chr06	44127634	CC	TT	1946872802
SNP_P4_86935_44143518	NC_021165.1	Ca_kabuli_chr06	44143518	CC	TT	1946872804
SNP_P4_86936_44147877	NC_021165.1	Ca_kabuli_chr06	44147877	AA	GG	1946872806
SNP_P4_86937_44152311	NC_021165.1	Ca_kabuli_chr06	44152311	TT	GG	1946872808
SNP_P4_86938_44152509	NC_021165.1	Ca_kabuli_chr06	44152509	CC	AA	1946872810
SNP_P4_86939_44158683	NC_021165.1	Ca_kabuli_chr06	44158683	GG	AA	1946872812
SNP_P4_86940_44160495	NC_021165.1	Ca_kabuli_chr06	44160495	CC	TT	1946872814
SNP_P4_86941_44160522	NC_021165.1	Ca_kabuli_chr06	44160522	TT	CC	1946872816
SNP_P4_86942_44160559	NC_021165.1	Ca_kabuli_chr06	44160559	CC	TT	1946872818
SNP_P4_86943_44160690	NC_021165.1	Ca_kabuli_chr06	44160690	CC	AA	1946872820
SNP_P4_86944_44160702	NC_021165.1	Ca_kabuli_chr06	44160702	GG	AA	1946872822
SNP_P4_86945_44160779	NC_021165.1	Ca_kabuli_chr06	44160779	TT	AA	1946872824

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_86947_44160864	NC_021165.1	Ca_kabuli_chr06	44160864	TT	GG	1946872828
SNP_P4_86948_44160889	NC_021165.1	Ca_kabuli_chr06	44160889	AA	GG	1946872830
SNP_P4_86949_44160929	NC_021165.1	Ca_kabuli_chr06	44160929	CC	AA	1946872832
SNP_P4_86950_44160936	NC_021165.1	Ca_kabuli_chr06	44160936	AA	CC	1946872834
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SNP_P4_86952_44160983	NC_021165.1	Ca_kabuli_chr06	44160983	AA	GG	1946872838
SNP_P4_86953_44160993	NC_021165.1	Ca_kabuli_chr06	44160993	GG	AA	1946872840
SNP_P4_86954_44161019	NC_021165.1	Ca_kabuli_chr06	44161019	CC	TT	1946872842
SNP_P4_86955_44161040	NC_021165.1	Ca_kabuli_chr06	44161040	TT	AA	1946872844
SNP_P4_86956_44161042	NC_021165.1	Ca_kabuli_chr06	44161042	GG	CC	1946872846
SNP_P4_86957_44161063	NC_021165.1	Ca_kabuli_chr06	44161063	AA	CC	1946872848
SNP_P4_86958_44164268	NC_021165.1	Ca_kabuli_chr06	44164268	TT	AA	1946872849
SNP_P4_86959_44185732	NC_021165.1	Ca_kabuli_chr06	44185732	AA	TT	1946872850
SNP_P4_86960_44200578	NC_021165.1	Ca_kabuli_chr06	44200578	CC	TT	1946872851
SNP_P4_86962_44264982	NC_021165.1	Ca_kabuli_chr06	44264982	AA	TT	1946872852
SNP_P4_86963_44265393	NC_021165.1	Ca_kabuli_chr06	44265393	TT	AA	1946872853
SNP_P4_86964_44265403	NC_021165.1	Ca_kabuli_chr06	44265403	TT	AA	1946872854
SNP_P4_86965_44265437	NC_021165.1	Ca_kabuli_chr06	44265437	CC	AA	1946872855
SNP_P4_86966_44265449	NC_021165.1	Ca_kabuli_chr06	44265449	GG	AA	1946872856
SNP_P4_86967_44265487	NC_021165.1	Ca_kabuli_chr06	44265487	TT	CC	1946872857
SNP_P4_86968_44268985	NC_021165.1	Ca_kabuli_chr06	44268985	TT	AA	1946872858
SNP_P4_86969_44278941	NC_021165.1	Ca_kabuli_chr06	44278941	TT	CC	1946872859
SNP_P4_86970_44278947	NC_021165.1	Ca_kabuli_chr06	44278947	AA	GG	1946872860
SNP_P4_86971_44278948	NC_021165.1	Ca_kabuli_chr06	44278948	CC	AA	1946872861
SNP_P4_86972_44287163	NC_021165.1	Ca_kabuli_chr06	44287163	GG	AA	1946872862
SNP_P4_86974_44294269	NC_021165.1	Ca_kabuli_chr06	44294269	AA	GG	1946872863
SNP_P4_86975_44294315	NC_021165.1	Ca_kabuli_chr06	44294315	CC	TT	1946872864
SNP_P4_86976_44294318	NC_021165.1	Ca_kabuli_chr06	44294318	CC	TT	1946872865
SNP_P4_86977_44294329	NC_021165.1	Ca_kabuli_chr06	44294329	GG	AA	1946872866
SNP_P4_86979_44302036	NC_021165.1	Ca_kabuli_chr06	44302036	TT	CC	1946872867
SNP_P4_86980_44302176	NC_021165.1	Ca_kabuli_chr06	44302176	TT	GG	1946872868
SNP_P4_86981_44302462	NC_021165.1	Ca_kabuli_chr06	44302462	AA	CC	1946872869
SNP_P4_86982_44302518	NC_021165.1	Ca_kabuli_chr06	44302518	CC	TT	1946872870
SNP_P4_86983_44302575	NC_021165.1	Ca_kabuli_chr06	44302575	AA	TT	1946872871
SNP_P4_86984_44302576	NC_021165.1	Ca_kabuli_chr06	44302576	AA	GG	1946872872
SNP_P4_86985_44302654	NC_021165.1	Ca_kabuli_chr06	44302654	TT	GG	1946872874
SNP_P4_86986_44302659	NC_021165.1	Ca_kabuli_chr06	44302659	CC	TT	1946872876
SNP_P4_86987_44302663	NC_021165.1	Ca_kabuli_chr06	44302663	CC	AA	1946872878
SNP_P4_86988_44303603	NC_021165.1	Ca_kabuli_chr06	44303603	TT	CC	1946872880
SNP_P4_86989_44330792	NC_021165.1	Ca_kabuli_chr06	44330792	AA	TT	1946872882
SNP_P4_86990_44330800	NC_021165.1	Ca_kabuli_chr06	44330800	TT	GG	1946872884

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_86992_44353457	NC_021165.1	Ca_kabuli_chr06	44353457	CC	GG	1946872888
SNP_P4_86995_44439213	NC_021165.1	Ca_kabuli_chr06	44439213	TT	CC	1946872890
SNP_P4_86996_44439258	NC_021165.1	Ca_kabuli_chr06	44439258	AA	CC	1946872892
SNP_P4_86997_44439297	NC_021165.1	Ca_kabuli_chr06	44439297	CC	GG	1946872894
SNP_P4_86998_44439310	NC_021165.1	Ca_kabuli_chr06	44439310	TT	CC	1946872896
SNP_P4_86999_44439330	NC_021165.1	Ca_kabuli_chr06	44439330	GG	AA	1946872898
SNP_P4_87000_44439347	NC_021165.1	Ca_kabuli_chr06	44439347	AA	GG	1946872900
SNP_P4_87001_44439637	NC_021165.1	Ca_kabuli_chr06	44439637	AA	TT	1946872902
SNP_P4_87002_44439683	NC_021165.1	Ca_kabuli_chr06	44439683	AA	GG	1946872904
SNP_P4_87003_44439730	NC_021165.1	Ca_kabuli_chr06	44439730	TT	CC	1946872906
SNP_P4_87004_44439750	NC_021165.1	Ca_kabuli_chr06	44439750	AA	GG	1946872908
SNP_P4_87006_44491123	NC_021165.1	Ca_kabuli_chr06	44491123	TT	GG	1946872910
SNP_P4_87007_44495104	NC_021165.1	Ca_kabuli_chr06	44495104	GG	AA	1946872912
SNP_P4_87008_44495786	NC_021165.1	Ca_kabuli_chr06	44495786	AA	TT	1946872914
SNP_P4_87009_44516407	NC_021165.1	Ca_kabuli_chr06	44516407	AA	TT	1946872916
SNP_P4_87010_44516593	NC_021165.1	Ca_kabuli_chr06	44516593	GG	AA	1946872918
SNP_P4_87011_44516673	NC_021165.1	Ca_kabuli_chr06	44516673	TT	GG	1946872920
SNP_P4_87012_44516682	NC_021165.1	Ca_kabuli_chr06	44516682	TT	CC	1946872922
SNP_P4_87013_44516687	NC_021165.1	Ca_kabuli_chr06	44516687	TT	GG	1946872924
SNP_P4_87014_44516751	NC_021165.1	Ca_kabuli_chr06	44516751	CC	TT	1946872926
SNP_P4_87015_44516785	NC_021165.1	Ca_kabuli_chr06	44516785	AA	GG	1946872928
SNP_P4_87016_44516789	NC_021165.1	Ca_kabuli_chr06	44516789	GG	AA	1946872930
SNP_P4_87017_44516799	NC_021165.1	Ca_kabuli_chr06	44516799	CC	TT	1946872932
SNP_P4_87018_44516806	NC_021165.1	Ca_kabuli_chr06	44516806	CC	TT	1946872934
SNP_P4_87019_44516807	NC_021165.1	Ca_kabuli_chr06	44516807	GG	AA	1946872936
SNP_P4_87020_44565960	NC_021165.1	Ca_kabuli_chr06	44565960	AA	GG	1946872937
SNP_P4_87021_44568487	NC_021165.1	Ca_kabuli_chr06	44568487	AA	GG	1946872939
SNP_P4_87022_44580800	NC_021165.1	Ca_kabuli_chr06	44580800	TT	CC	1946872941
SNP_P4_87023_44580845	NC_021165.1	Ca_kabuli_chr06	44580845	TT	CC	1946872943
SNP_P4_87024_44592368	NC_021165.1	Ca_kabuli_chr06	44592368	AA	TT	1946872945
SNP_P4_87025_44606529	NC_021165.1	Ca_kabuli_chr06	44606529	GG	AA	1946872947
SNP_P4_87027_44626570	NC_021165.1	Ca_kabuli_chr06	44626570	GG	AA	1946872949
SNP_P4_87028_44626599	NC_021165.1	Ca_kabuli_chr06	44626599	TT	GG	1946872951
SNP_P4_87029_44626948	NC_021165.1	Ca_kabuli_chr06	44626948	CC	GG	1946872953
SNP_P4_87030_44626950	NC_021165.1	Ca_kabuli_chr06	44626950	AA	GG	1946872955
SNP_P4_87031_44627030	NC_021165.1	Ca_kabuli_chr06	44627030	TT	AA	1946872957
SNP_P4_87034_44648174	NC_021165.1	Ca_kabuli_chr06	44648174	TT	CC	1946872959
SNP_P4_87035_44648772	NC_021165.1	Ca_kabuli_chr06	44648772	CC	AA	1946872960
SNP_P4_87036_44652368	NC_021165.1	Ca_kabuli_chr06	44652368	AA	GG	1946872962
SNP_P4_87037_44652401	NC_021165.1	Ca_kabuli_chr06	44652401	TT	CC	1946872964
SNP_P4_87038_44652436	NC_021165.1	Ca_kabuli_chr06	44652436	GG	AA	1946872966

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_87040_44653584	NC_021165.1	Ca_kabuli_chr06	44653584	TT	AA	1946872970
SNP_P4_87041_44653850	NC_021165.1	Ca_kabuli_chr06	44653850	TT	CC	1946872972
SNP_P4_87042_44653872	NC_021165.1	Ca_kabuli_chr06	44653872	GG	AA	1946872974
SNP_P4_87043_44654059	NC_021165.1	Ca_kabuli_chr06	44654059	AA	TT	1946872976
SNP_P4_87044_44654510	NC_021165.1	Ca_kabuli_chr06	44654510	TT	CC	1946872978
SNP_P4_87045_44654696	NC_021165.1	Ca_kabuli_chr06	44654696	CC	TT	1946872980
SNP_P4_87046_44678121	NC_021165.1	Ca_kabuli_chr06	44678121	AA	GG	1946872982
SNP_P4_87047_44678157	NC_021165.1	Ca_kabuli_chr06	44678157	GG	AA	1946872984
SNP_P4_87048_44678169	NC_021165.1	Ca_kabuli_chr06	44678169	GG	TT	1946872986
SNP_P4_87049_44678281	NC_021165.1	Ca_kabuli_chr06	44678281	AA	TT	1946872988
SNP_P4_87050_44678318	NC_021165.1	Ca_kabuli_chr06	44678318	TT	GG	1946872990
SNP_P4_87051_44678400	NC_021165.1	Ca_kabuli_chr06	44678400	AA	TT	1946872992
SNP_P4_87052_44680132	NC_021165.1	Ca_kabuli_chr06	44680132	CC	TT	1946872995
SNP_P4_87053_44680156	NC_021165.1	Ca_kabuli_chr06	44680156	CC	TT	1946872997
SNP_P4_87054_44680162	NC_021165.1	Ca_kabuli_chr06	44680162	CC	TT	1946872999
SNP_P4_87055_44681508	NC_021165.1	Ca_kabuli_chr06	44681508	TT	CC	1946873001
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SNP_P4_87059_44681970	NC_021165.1	Ca_kabuli_chr06	44681970	AA	GG	1946873009
SNP_P4_87060_44681983	NC_021165.1	Ca_kabuli_chr06	44681983	TT	CC	1946873011
SNP_P4_87061_44682605	NC_021165.1	Ca_kabuli_chr06	44682605	AA	GG	1946873013
SNP_P4_87062_44682821	NC_021165.1	Ca_kabuli_chr06	44682821	AA	TT	1946873015
SNP_P4_87063_44682837	NC_021165.1	Ca_kabuli_chr06	44682837	GG	AA	1946873017
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SNP_P4_87065_44682923	NC_021165.1	Ca_kabuli_chr06	44682923	AA	GG	1946873021
SNP_P4_87066_44682958	NC_021165.1	Ca_kabuli_chr06	44682958	AA	GG	1946873023
SNP_P4_87067_44683107	NC_021165.1	Ca_kabuli_chr06	44683107	TT	CC	1946873025
SNP_P4_87068_44700012	NC_021165.1	Ca_kabuli_chr06	44700012	AA	GG	1946873027
SNP_P4_87069_44700098	NC_021165.1	Ca_kabuli_chr06	44700098	GG	AA	1946873029
SNP_P4_87070_44700112	NC_021165.1	Ca_kabuli_chr06	44700112	GG	TT	1946873031
SNP_P4_87071_44700127	NC_021165.1	Ca_kabuli_chr06	44700127	CC	TT	1946873033
SNP_P4_87072_44707092	NC_021165.1	Ca_kabuli_chr06	44707092	TT	CC	1946873035
SNP_P4_87073_44707338	NC_021165.1	Ca_kabuli_chr06	44707338	CC	TT	1946873037
SNP_P4_87074_44707396	NC_021165.1	Ca_kabuli_chr06	44707396	CC	TT	1946873038
SNP_P4_87075_44707432	NC_021165.1	Ca_kabuli_chr06	44707432	GG	AA	1946873040
SNP_P4_87076_44709079	NC_021165.1	Ca_kabuli_chr06	44709079	CC	TT	1946873042
SNP_P4_87077_44709081	NC_021165.1	Ca_kabuli_chr06	44709081	AA	CC	1946873044
SNP_P4_87078_44709123	NC_021165.1	Ca_kabuli_chr06	44709123	CC	TT	1946873046
SNP_P4_87079_44709126	NC_021165.1	Ca_kabuli_chr06	44709126	AA	GG	1946873048
SNP_P4_87080_44709145	NC_021165.1	Ca_kabuli_chr06	44709145	GG	AA	1946873050

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_87082_44709177	NC_021165.1	Ca_kabuli_chr06	44709177	GG	AA	1946873054
SNP_P4_87083_44709746	NC_021165.1	Ca_kabuli_chr06	44709746	AA	TT	1946873056
SNP_P4_87084_44711166	NC_021165.1	Ca_kabuli_chr06	44711166	GG	AA	1946873057
SNP_P4_87085_44712907	NC_021165.1	Ca_kabuli_chr06	44712907	CC	TT	1946873059
SNP_P4_87086_44712921	NC_021165.1	Ca_kabuli_chr06	44712921	AA	GG	1946873061
SNP_P4_87087_44712937	NC_021165.1	Ca_kabuli_chr06	44712937	GG	AA	1946873063
SNP_P4_87088_44724199	NC_021165.1	Ca_kabuli_chr06	44724199	AA	TT	1946873065
SNP_P4_87089_44724595	NC_021165.1	Ca_kabuli_chr06	44724595	AA	GG	1946873067
SNP_P4_87091_44727051	NC_021165.1	Ca_kabuli_chr06	44727051	AA	GG	1946873069
SNP_P4_87092_44727062	NC_021165.1	Ca_kabuli_chr06	44727062	AA	TT	1946873071
SNP_P4_87093_44727072	NC_021165.1	Ca_kabuli_chr06	44727072	TT	CC	1946873073
SNP_P4_87094_44727103	NC_021165.1	Ca_kabuli_chr06	44727103	GG	TT	1946873075
SNP_P4_87095_44727114	NC_021165.1	Ca_kabuli_chr06	44727114	AA	CC	1946873077
SNP_P4_87096_44727160	NC_021165.1	Ca_kabuli_chr06	44727160	AA	CC	1946873079
SNP_P4_87097_44727471	NC_021165.1	Ca_kabuli_chr06	44727471	AA	CC	1946873080
SNP_P4_87098_44737973	NC_021165.1	Ca_kabuli_chr06	44737973	CC	TT	1946873082
SNP_P4_87099_44758440	NC_021165.1	Ca_kabuli_chr06	44758440	AA	GG	1946873084
SNP_P4_87100_44776401	NC_021165.1	Ca_kabuli_chr06	44776401	GG	AA	1946873086
SNP_P4_87101_44776757	NC_021165.1	Ca_kabuli_chr06	44776757	AA	GG	1946873088
SNP_P4_87102_44776760	NC_021165.1	Ca_kabuli_chr06	44776760	AA	CC	1946873090
SNP_P4_87103_44814157	NC_021165.1	Ca_kabuli_chr06	44814157	TT	CC	1946873092
SNP_P4_87105_44847359	NC_021165.1	Ca_kabuli_chr06	44847359	GG	AA	1946873094
SNP_P4_87107_44919795	NC_021165.1	Ca_kabuli_chr06	44919795	TT	CC	1946873096
SNP_P4_87108_44952675	NC_021165.1	Ca_kabuli_chr06	44952675	TT	CC	1946873098
SNP_P4_87109_44952741	NC_021165.1	Ca_kabuli_chr06	44952741	TT	CC	1946873100
SNP_P4_87110_44952748	NC_021165.1	Ca_kabuli_chr06	44952748	CC	TT	1946873102
SNP_P4_87111_44954219	NC_021165.1	Ca_kabuli_chr06	44954219	CC	TT	1946873104
SNP_P4_87112_44954224	NC_021165.1	Ca_kabuli_chr06	44954224	GG	AA	1946873106
SNP_P4_87113_44954265	NC_021165.1	Ca_kabuli_chr06	44954265	GG	AA	1946873108
SNP_P4_87114_44954270	NC_021165.1	Ca_kabuli_chr06	44954270	TT	CC	1946873110
SNP_P4_87115_44954280	NC_021165.1	Ca_kabuli_chr06	44954280	TT	CC	1946873112
SNP_P4_87116_44954546	NC_021165.1	Ca_kabuli_chr06	44954546	AA	GG	1946873114
SNP_P4_87117_44955899	NC_021165.1	Ca_kabuli_chr06	44955899	GG	AA	1946873116
SNP_P4_87118_44960206	NC_021165.1	Ca_kabuli_chr06	44960206	AA	CC	1946873118
SNP_P4_87119_44960243	NC_021165.1	Ca_kabuli_chr06	44960243	GG	AA	1946873120
SNP_P4_87120_44960248	NC_021165.1	Ca_kabuli_chr06	44960248	GG	CC	1946873122
SNP_P4_87121_44960250	NC_021165.1	Ca_kabuli_chr06	44960250	TT	CC	1946873124
SNP_P4_87122_44960273	NC_021165.1	Ca_kabuli_chr06	44960273	TT	CC	1946873126
SNP_P4_87123_44960282	NC_021165.1	Ca_kabuli_chr06	44960282	GG	TT	1946873128
SNP_P4_87124_44960297	NC_021165.1	Ca_kabuli_chr06	44960297	CC	AA	1946873130
SNP_P4_87125_44960315	NC_021165.1	Ca_kabuli_chr06	44960315	AA	GG	1946873132

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_87127_44960457	NC_021165.1	Ca_kabuli_chr06	44960457	TT	CC	1946873136
SNP_P4_87128_44960459	NC_021165.1	Ca_kabuli_chr06	44960459	TT	CC	1946873138
SNP_P4_87129_44960500	NC_021165.1	Ca_kabuli_chr06	44960500	GG	AA	1946873140
SNP_P4_87130_44960546	NC_021165.1	Ca_kabuli_chr06	44960546	TT	AA	1946873142
SNP_P4_87131_44960608	NC_021165.1	Ca_kabuli_chr06	44960608	GG	AA	1946873144
SNP_P4_87132_44970678	NC_021165.1	Ca_kabuli_chr06	44970678	GG	AA	1946873146
SNP_P4_87134_44977562	NC_021165.1	Ca_kabuli_chr06	44977562	CC	TT	1946873148
SNP_P4_87135_44991016	NC_021165.1	Ca_kabuli_chr06	44991016	AA	GG	1946873150
SNP_P4_87136_44996256	NC_021165.1	Ca_kabuli_chr06	44996256	GG	CC	1946873152
SNP_P4_87137_44996258	NC_021165.1	Ca_kabuli_chr06	44996258	GG	AA	1946873154
SNP_P4_87138_44996613	NC_021165.1	Ca_kabuli_chr06	44996613	CC	TT	1946873156
SNP_P4_87139_45007780	NC_021165.1	Ca_kabuli_chr06	45007780	CC	TT	1946873158
SNP_P4_87140_45009222	NC_021165.1	Ca_kabuli_chr06	45009222	TT	GG	1946873160
SNP_P4_87141_45018485	NC_021165.1	Ca_kabuli_chr06	45018485	TT	CC	1946873162
SNP_P4_87142_45018517	NC_021165.1	Ca_kabuli_chr06	45018517	AA	CC	1946873164
SNP_P4_87143_45018790	NC_021165.1	Ca_kabuli_chr06	45018790	CC	TT	1946873166
SNP_P4_87144_45018792	NC_021165.1	Ca_kabuli_chr06	45018792	CC	TT	1946873168
SNP_P4_87145_45018796	NC_021165.1	Ca_kabuli_chr06	45018796	AA	CC	1946873170
SNP_P4_87146_45020857	NC_021165.1	Ca_kabuli_chr06	45020857	AA	GG	1946873172
SNP_P4_87147_45020910	NC_021165.1	Ca_kabuli_chr06	45020910	TT	CC	1946873174
SNP_P4_87148_45020947	NC_021165.1	Ca_kabuli_chr06	45020947	GG	AA	1946873176
SNP_P4_87149_45021341	NC_021165.1	Ca_kabuli_chr06	45021341	AA	CC	1946873178
SNP_P4_87150_45076732	NC_021165.1	Ca_kabuli_chr06	45076732	TT	CC	1946873180
SNP_P4_87151_45088454	NC_021165.1	Ca_kabuli_chr06	45088454	TT	CC	1946873182
SNP_P4_87152_45097492	NC_021165.1	Ca_kabuli_chr06	45097492	AA	GG	1946873184
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SNP_P4_87154_45135131	NC_021165.1	Ca_kabuli_chr06	45135131	AA	GG	1946873188
SNP_P4_87155_45135153	NC_021165.1	Ca_kabuli_chr06	45135153	GG	TT	1946873190
SNP_P4_87156_45135301	NC_021165.1	Ca_kabuli_chr06	45135301	AA	GG	1946873192
SNP_P4_87157_45135325	NC_021165.1	Ca_kabuli_chr06	45135325	GG	CC	1946873194
SNP_P4_87158_45136187	NC_021165.1	Ca_kabuli_chr06	45136187	AA	CC	1946873196
SNP_P4_87159_45145873	NC_021165.1	Ca_kabuli_chr06	45145873	TT	CC	1946873198
SNP_P4_87160_45145896	NC_021165.1	Ca_kabuli_chr06	45145896	GG	AA	1946873200
SNP_P4_87161_45150783	NC_021165.1	Ca_kabuli_chr06	45150783	GG	AA	1946873202
SNP_P4_87162_45177553	NC_021165.1	Ca_kabuli_chr06	45177553	CC	TT	1946873204
SNP_P4_87163_45177608	NC_021165.1	Ca_kabuli_chr06	45177608	AA	CC	1946873206
SNP_P4_87164_45186579	NC_021165.1	Ca_kabuli_chr06	45186579	CC	TT	1946873208
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SNP_P4_87166_45196774	NC_021165.1	Ca_kabuli_chr06	45196774	AA	TT	1946873212
SNP_P4_87167_45225540	NC_021165.1	Ca_kabuli_chr06	45225540	GG	AA	1946873214
SNP_P4_87168_45226379	NC_021165.1	Ca_kabuli_chr06	45226379	GG	AA	1946873216

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_87171_45274641	NC_021165.1	Ca_kabuli_chr06	45274641	AA	TT	1946873222
SNP_P4_87172_45274661	NC_021165.1	Ca_kabuli_chr06	45274661	TT	AA	1946873224
SNP_P4_87173_45274669	NC_021165.1	Ca_kabuli_chr06	45274669	CC	AA	1946873226
SNP_P4_87174_45274704	NC_021165.1	Ca_kabuli_chr06	45274704	AA	GG	1946873228
SNP_P4_87175_45274710	NC_021165.1	Ca_kabuli_chr06	45274710	TT	GG	1946873230
SNP_P4_87176_45274726	NC_021165.1	Ca_kabuli_chr06	45274726	CC	TT	1946873232
SNP_P4_87177_45274842	NC_021165.1	Ca_kabuli_chr06	45274842	AA	GG	1946873235
SNP_P4_87178_45274863	NC_021165.1	Ca_kabuli_chr06	45274863	TT	CC	1946873237
SNP_P4_87179_45274872	NC_021165.1	Ca_kabuli_chr06	45274872	TT	CC	1946873239
SNP_P4_87180_45274894	NC_021165.1	Ca_kabuli_chr06	45274894	AA	GG	1946873241
SNP_P4_87181_45274902	NC_021165.1	Ca_kabuli_chr06	45274902	TT	CC	1946873243
SNP_P4_87182_45274932	NC_021165.1	Ca_kabuli_chr06	45274932	TT	AA	1946873245
SNP_P4_87183_45274935	NC_021165.1	Ca_kabuli_chr06	45274935	TT	CC	1946873247
SNP_P4_87184_45274947	NC_021165.1	Ca_kabuli_chr06	45274947	GG	AA	1946873249
SNP_P4_87185_45274965	NC_021165.1	Ca_kabuli_chr06	45274965	GG	AA	1946873251
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SNP_P4_87188_45277978	NC_021165.1	Ca_kabuli_chr06	45277978	TT	CC	1946873255
SNP_P4_87189_45278057	NC_021165.1	Ca_kabuli_chr06	45278057	AA	CC	1946873257
SNP_P4_87190_45278411	NC_021165.1	Ca_kabuli_chr06	45278411	CC	AA	1946873259
SNP_P4_87192_45282710	NC_021165.1	Ca_kabuli_chr06	45282710	TT	CC	1946873261
SNP_P4_87193_45282717	NC_021165.1	Ca_kabuli_chr06	45282717	AA	GG	1946873263
SNP_P4_87194_45284925	NC_021165.1	Ca_kabuli_chr06	45284925	TT	CC	1946873265
SNP_P4_87195_45286966	NC_021165.1	Ca_kabuli_chr06	45286966	CC	AA	1946873267
SNP_P4_87196_45286970	NC_021165.1	Ca_kabuli_chr06	45286970	GG	AA	1946873269
SNP_P4_87197_45289111	NC_021165.1	Ca_kabuli_chr06	45289111	CC	TT	1946873271
SNP_P4_87198_45289616	NC_021165.1	Ca_kabuli_chr06	45289616	CC	TT	1946873273
SNP_P4_87199_45290150	NC_021165.1	Ca_kabuli_chr06	45290150	GG	AA	1946873275
SNP_P4_87200_45290210	NC_021165.1	Ca_kabuli_chr06	45290210	AA	GG	1946873277
SNP_P4_87201_45290265	NC_021165.1	Ca_kabuli_chr06	45290265	AA	GG	1946873279
SNP_P4_87202_45290343	NC_021165.1	Ca_kabuli_chr06	45290343	AA	GG	1946873281
SNP_P4_87203_45290473	NC_021165.1	Ca_kabuli_chr06	45290473	AA	TT	1946873283
SNP_P4_87204_45290475	NC_021165.1	Ca_kabuli_chr06	45290475	AA	TT	1946873285
SNP_P4_87206_45304992	NC_021165.1	Ca_kabuli_chr06	45304992	TT	AA	1946873287
SNP_P4_87207_45304997	NC_021165.1	Ca_kabuli_chr06	45304997	AA	GG	1946873289
SNP_P4_87208_45305003	NC_021165.1	Ca_kabuli_chr06	45305003	GG	AA	1946873291
SNP_P4_87209_45314372	NC_021165.1	Ca_kabuli_chr06	45314372	AA	GG	1946873293
SNP_P4_87210_45323822	NC_021165.1	Ca_kabuli_chr06	45323822	GG	AA	1946873295
SNP_P4_87212_45329277	NC_021165.1	Ca_kabuli_chr06	45329277	CC	AA	1946873297
SNP_P4_87214_45329327	NC_021165.1	Ca_kabuli_chr06	45329327	CC	TT	1946873299
SNP_P4_87215_45329465	NC_021165.1	Ca_kabuli_chr06	45329465	CC	TT	1946873301

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_87217_45329567	NC_021165.1	Ca_kabuli_chr06	45329567	TT	CC	1946873305
SNP_P4_87218_45331035	NC_021165.1	Ca_kabuli_chr06	45331035	TT	CC	1946873307
SNP_P4_87219_45331040	NC_021165.1	Ca_kabuli_chr06	45331040	AA	CC	1946873309
SNP_P4_87220_45331071	NC_021165.1	Ca_kabuli_chr06	45331071	CC	TT	1946873311
SNP_P4_87221_45331117	NC_021165.1	Ca_kabuli_chr06	45331117	TT	CC	1946873313
SNP_P4_87222_45331130	NC_021165.1	Ca_kabuli_chr06	45331130	AA	GG	1946873315
SNP_P4_87224_45350358	NC_021165.1	Ca_kabuli_chr06	45350358	AA	GG	1946873317
SNP_P4_87225_45366467	NC_021165.1	Ca_kabuli_chr06	45366467	CC	AA	1946873319
SNP_P4_87227_45393166	NC_021165.1	Ca_kabuli_chr06	45393166	TT	CC	1946873321
SNP_P4_87228_45404944	NC_021165.1	Ca_kabuli_chr06	45404944	AA	GG	1946873323
SNP_P4_87229_45404974	NC_021165.1	Ca_kabuli_chr06	45404974	CC	TT	1946873325
SNP_P4_87230_45405322	NC_021165.1	Ca_kabuli_chr06	45405322	TT	CC	1946873327
SNP_P4_87231_45405853	NC_021165.1	Ca_kabuli_chr06	45405853	AA	TT	1946873329
SNP_P4_87232_45405969	NC_021165.1	Ca_kabuli_chr06	45405969	AA	TT	1946873331
SNP_P4_87233_45408784	NC_021165.1	Ca_kabuli_chr06	45408784	TT	CC	1946873333
SNP_P4_87234_45469356	NC_021165.1	Ca_kabuli_chr06	45469356	TT	CC	1946873335
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SNP_P4_87236_45469492	NC_021165.1	Ca_kabuli_chr06	45469492	TT	CC	1946873339
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SNP_P4_87238_45469625	NC_021165.1	Ca_kabuli_chr06	45469625	TT	CC	1946873344
SNP_P4_87239_45469658	NC_021165.1	Ca_kabuli_chr06	45469658	CC	TT	1946873346
SNP_P4_87240_45469676	NC_021165.1	Ca_kabuli_chr06	45469676	AA	CC	1946873348
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SNP_P4_87244_45473407	NC_021165.1	Ca_kabuli_chr06	45473407	TT	CC	1946873356
SNP_P4_87245_45473616	NC_021165.1	Ca_kabuli_chr06	45473616	GG	TT	1946873358
SNP_P4_87246_45473641	NC_021165.1	Ca_kabuli_chr06	45473641	TT	AA	1946873360
SNP_P4_87247_45473729	NC_021165.1	Ca_kabuli_chr06	45473729	CC	TT	1946873362
SNP_P4_87248_45473848	NC_021165.1	Ca_kabuli_chr06	45473848	AA	GG	1946873364
SNP_P4_87249_45473849	NC_021165.1	Ca_kabuli_chr06	45473849	TT	CC	1946873366
SNP_P4_87250_45500498	NC_021165.1	Ca_kabuli_chr06	45500498	TT	GG	1946873368
SNP_P4_87251_45500503	NC_021165.1	Ca_kabuli_chr06	45500503	AA	TT	1946873370
SNP_P4_87252_45502335	NC_021165.1	Ca_kabuli_chr06	45502335	TT	CC	1946873372
SNP_P4_87253_45509931	NC_021165.1	Ca_kabuli_chr06	45509931	GG	AA	1946873374
SNP_P4_87254_45564436	NC_021165.1	Ca_kabuli_chr06	45564436	CC	TT	1946873376
SNP_P4_87255_45564482	NC_021165.1	Ca_kabuli_chr06	45564482	GG	TT	1946873378
SNP_P4_87256_45564497	NC_021165.1	Ca_kabuli_chr06	45564497	AA	TT	1946873379
SNP_P4_87257_45566972	NC_021165.1	Ca_kabuli_chr06	45566972	AA	GG	1946873380
SNP_P4_87258_45566977	NC_021165.1	Ca_kabuli_chr06	45566977	AA	CC	1946873381
SNP_P4_87259_45572362	NC_021165.1	Ca_kabuli_chr06	45572362	AA	TT	1946873382

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_87262_45585452	NC_021165.1	Ca_kabuli_chr06	45585452	AA	TT	1946873384
SNP_P4_87263_45585668	NC_021165.1	Ca_kabuli_chr06	45585668	TT	CC	1946873385
SNP_P4_87264_45585669	NC_021165.1	Ca_kabuli_chr06	45585669	AA	GG	1946873386
SNP_P4_87265_45599627	NC_021165.1	Ca_kabuli_chr06	45599627	CC	TT	1946873387
SNP_P4_87266_45599642	NC_021165.1	Ca_kabuli_chr06	45599642	AA	GG	1946873388
SNP_P4_87267_45599651	NC_021165.1	Ca_kabuli_chr06	45599651	TT	GG	1946873389
SNP_P4_87268_45599671	NC_021165.1	Ca_kabuli_chr06	45599671	TT	CC	1946873390
SNP_P4_87269_45599680	NC_021165.1	Ca_kabuli_chr06	45599680	TT	CC	1946873391
SNP_P4_87270_45599685	NC_021165.1	Ca_kabuli_chr06	45599685	AA	TT	1946873392
SNP_P4_87271_45600018	NC_021165.1	Ca_kabuli_chr06	45600018	CC	TT	1946873393
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SNP_P4_87273_45600044	NC_021165.1	Ca_kabuli_chr06	45600044	AA	CC	1946873395
SNP_P4_87274_45643171	NC_021165.1	Ca_kabuli_chr06	45643171	AA	CC	1946873396
SNP_P4_87275_45643228	NC_021165.1	Ca_kabuli_chr06	45643228	GG	AA	1946873397
SNP_P4_87276_45643318	NC_021165.1	Ca_kabuli_chr06	45643318	CC	TT	1946873398
SNP_P4_87277_45643364	NC_021165.1	Ca_kabuli_chr06	45643364	AA	GG	1946873399
SNP_P4_87278_45653982	NC_021165.1	Ca_kabuli_chr06	45653982	TT	GG	1946873400
SNP_P4_87279_45666912	NC_021165.1	Ca_kabuli_chr06	45666912	GG	AA	1946873401
SNP_P4_87280_45724290	NC_021165.1	Ca_kabuli_chr06	45724290	AA	GG	1946873402
SNP_P4_87281_45747420	NC_021165.1	Ca_kabuli_chr06	45747420	AA	GG	1946873403
SNP_P4_87282_45755000	NC_021165.1	Ca_kabuli_chr06	45755000	TT	GG	1946873404
SNP_P4_87283_45756828	NC_021165.1	Ca_kabuli_chr06	45756828	TT	CC	1946873405
SNP_P4_87284_45761595	NC_021165.1	Ca_kabuli_chr06	45761595	TT	CC	1946873406
SNP_P4_87285_45772236	NC_021165.1	Ca_kabuli_chr06	45772236	AA	TT	1946873407
SNP_P4_87287_45850866	NC_021165.1	Ca_kabuli_chr06	45850866	AA	CC	1946873408
SNP_P4_87288_45850933	NC_021165.1	Ca_kabuli_chr06	45850933	TT	CC	1946873409
SNP_P4_87289_45851427	NC_021165.1	Ca_kabuli_chr06	45851427	AA	CC	1946873410
SNP_P4_87290_45851428	NC_021165.1	Ca_kabuli_chr06	45851428	AA	CC	1946873411
SNP_P4_87291_45851806	NC_021165.1	Ca_kabuli_chr06	45851806	GG	AA	1946873412
SNP_P4_87292_45852805	NC_021165.1	Ca_kabuli_chr06	45852805	CC	GG	1946873413
SNP_P4_87293_45852810	NC_021165.1	Ca_kabuli_chr06	45852810	TT	CC	1946873414
SNP_P4_87294_45872643	NC_021165.1	Ca_kabuli_chr06	45872643	AA	GG	1946873415
SNP_P4_87295_45872645	NC_021165.1	Ca_kabuli_chr06	45872645	GG	AA	1946873416
SNP_P4_87297_45896263	NC_021165.1	Ca_kabuli_chr06	45896263	TT	GG	1946873417
SNP_P4_87298_45896358	NC_021165.1	Ca_kabuli_chr06	45896358	GG	CC	1946873418
SNP_P4_87299_45896360	NC_021165.1	Ca_kabuli_chr06	45896360	AA	CC	1946873419
SNP_P4_87300_45896661	NC_021165.1	Ca_kabuli_chr06	45896661	AA	GG	1946873420
SNP_P4_87301_45896671	NC_021165.1	Ca_kabuli_chr06	45896671	GG	CC	1946873421
SNP_P4_87302_45896729	NC_021165.1	Ca_kabuli_chr06	45896729	TT	CC	1946873422
SNP_P4_87303_45896734	NC_021165.1	Ca_kabuli_chr06	45896734	AA	GG	1946873423
SNP_P4_87304_45899714	NC_021165.1	Ca_kabuli_chr06	45899714	GG	AA	1946873424

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_87308_45949130	NC_021165.1	Ca_kabuli_chr06	45949130	TT	AA	1946873425
SNP_P4_87309_45950881	NC_021165.1	Ca_kabuli_chr06	45950881	CC	TT	1946873426
SNP_P4_87310_45950883	NC_021165.1	Ca_kabuli_chr06	45950883	GG	AA	1946873427
SNP_P4_87311_45964276	NC_021165.1	Ca_kabuli_chr06	45964276	TT	GG	1946873428
SNP_P4_87312_45964658	NC_021165.1	Ca_kabuli_chr06	45964658	AA	GG	1946873429
SNP_P4_87313_45964661	NC_021165.1	Ca_kabuli_chr06	45964661	AA	TT	1946873430
SNP_P4_87314_45964675	NC_021165.1	Ca_kabuli_chr06	45964675	TT	CC	1946873431
SNP_P4_87315_45999374	NC_021165.1	Ca_kabuli_chr06	45999374	TT	CC	1946873432
SNP_P4_87316_45999690	NC_021165.1	Ca_kabuli_chr06	45999690	AA	CC	1946873433
SNP_P4_87317_46006543	NC_021165.1	Ca_kabuli_chr06	46006543	CC	TT	1946873434
SNP_P4_87318_46006545	NC_021165.1	Ca_kabuli_chr06	46006545	TT	AA	1946873435
SNP_P4_87320_46020071	NC_021165.1	Ca_kabuli_chr06	46020071	TT	GG	1946873436
SNP_P4_87321_46020073	NC_021165.1	Ca_kabuli_chr06	46020073	AA	CC	1946873437
SNP_P4_87323_46029211	NC_021165.1	Ca_kabuli_chr06	46029211	AA	CC	1946873438
SNP_P4_87324_46031243	NC_021165.1	Ca_kabuli_chr06	46031243	GG	AA	1946873439
SNP_P4_87325_46031825	NC_021165.1	Ca_kabuli_chr06	46031825	CC	AA	1946873440
SNP_P4_87326_46031846	NC_021165.1	Ca_kabuli_chr06	46031846	GG	AA	1946873441
SNP_P4_87327_46031890	NC_021165.1	Ca_kabuli_chr06	46031890	GG	TT	1946873442
SNP_P4_87328_46031897	NC_021165.1	Ca_kabuli_chr06	46031897	GG	AA	1946873443
SNP_P4_87329_46031941	NC_021165.1	Ca_kabuli_chr06	46031941	GG	AA	1946873444
SNP_P4_87330_46034161	NC_021165.1	Ca_kabuli_chr06	46034161	AA	GG	1946873445
SNP_P4_87331_46034172	NC_021165.1	Ca_kabuli_chr06	46034172	AA	TT	1946873446
SNP_P4_87332_46034362	NC_021165.1	Ca_kabuli_chr06	46034362	TT	AA	1946873447
SNP_P4_87333_46035779	NC_021165.1	Ca_kabuli_chr06	46035779	AA	CC	1946873448
SNP_P4_87334_46035883	NC_021165.1	Ca_kabuli_chr06	46035883	GG	AA	1946873449
SNP_P4_87335_46036150	NC_021165.1	Ca_kabuli_chr06	46036150	GG	AA	1946873450
SNP_P4_87336_46036175	NC_021165.1	Ca_kabuli_chr06	46036175	CC	TT	1946873451
SNP_P4_87337_46036249	NC_021165.1	Ca_kabuli_chr06	46036249	AA	GG	1946873452
SNP_P4_87338_46051053	NC_021165.1	Ca_kabuli_chr06	46051053	AA	GG	1946873453
SNP_P4_87339_46051054	NC_021165.1	Ca_kabuli_chr06	46051054	AA	GG	1946873454
SNP_P4_87340_46080195	NC_021165.1	Ca_kabuli_chr06	46080195	AA	GG	1946873455
SNP_P4_87341_46080197	NC_021165.1	Ca_kabuli_chr06	46080197	AA	CC	1946873456
SNP_P4_87342_46082777	NC_021165.1	Ca_kabuli_chr06	46082777	CC	TT	1946873457
SNP_P4_87343_46112879	NC_021165.1	Ca_kabuli_chr06	46112879	AA	CC	1946873458
SNP_P4_87344_46116863	NC_021165.1	Ca_kabuli_chr06	46116863	TT	CC	1946873459
SNP_P4_87345_46116957	NC_021165.1	Ca_kabuli_chr06	46116957	AA	GG	1946873460
SNP_P4_87346_46117122	NC_021165.1	Ca_kabuli_chr06	46117122	AA	GG	1946873461
SNP_P4_87348_46152445	NC_021165.1	Ca_kabuli_chr06	46152445	AA	TT	1946873462
SNP_P4_87349_46163499	NC_021165.1	Ca_kabuli_chr06	46163499	AA	CC	1946873463
SNP_P4_87350_46163512	NC_021165.1	Ca_kabuli_chr06	46163512	GG	CC	1946873464
SNP_P4_87351_46163576	NC_021165.1	Ca_kabuli_chr06	46163576	GG	TT	1946873465
SNP_P4_87352_46164526	NC_021165.1	Ca_kabuli_chr06	46164526	GG	TT	1946873466

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_87354_46164775	NC_021165.1	Ca_kabuli_chr06	46164775	AA	CC	1946873468
SNP_P4_87355_46164790	NC_021165.1	Ca_kabuli_chr06	46164790	GG	CC	1946873469
SNP_P4_87356_46164923	NC_021165.1	Ca_kabuli_chr06	46164923	AA	GG	1946873470
SNP_P4_87357_46180738	NC_021165.1	Ca_kabuli_chr06	46180738	TT	CC	1946873471
SNP_P4_87358_46180766	NC_021165.1	Ca_kabuli_chr06	46180766	TT	CC	1946873473
SNP_P4_87359_46181062	NC_021165.1	Ca_kabuli_chr06	46181062	CC	TT	1946873475
SNP_P4_87360_46181090	NC_021165.1	Ca_kabuli_chr06	46181090	AA	TT	1946873477
SNP_P4_87361_46181102	NC_021165.1	Ca_kabuli_chr06	46181102	GG	TT	1946873479
SNP_P4_87362_46210371	NC_021165.1	Ca_kabuli_chr06	46210371	AA	GG	1946873481
SNP_P4_87363_46224254	NC_021165.1	Ca_kabuli_chr06	46224254	TT	AA	1946873483
SNP_P4_87364_46252523	NC_021165.1	Ca_kabuli_chr06	46252523	AA	TT	1946873485
SNP_P4_87366_46317702	NC_021165.1	Ca_kabuli_chr06	46317702	AA	GG	1946873487
SNP_P4_87367_46330243	NC_021165.1	Ca_kabuli_chr06	46330243	AA	GG	1946873489
SNP_P4_87368_46330282	NC_021165.1	Ca_kabuli_chr06	46330282	TT	AA	1946873491
SNP_P4_87369_46330286	NC_021165.1	Ca_kabuli_chr06	46330286	AA	TT	1946873493
SNP_P4_87370_46330305	NC_021165.1	Ca_kabuli_chr06	46330305	AA	GG	1946873495
SNP_P4_87371_46330391	NC_021165.1	Ca_kabuli_chr06	46330391	GG	TT	1946873497
SNP_P4_87372_46330414	NC_021165.1	Ca_kabuli_chr06	46330414	GG	AA	1946873499
SNP_P4_87373_46330415	NC_021165.1	Ca_kabuli_chr06	46330415	TT	CC	1946873501
SNP_P4_87375_46346631	NC_021165.1	Ca_kabuli_chr06	46346631	TT	CC	1946873503
SNP_P4_87376_46346636	NC_021165.1	Ca_kabuli_chr06	46346636	AA	GG	1946873505
SNP_P4_87377_46346656	NC_021165.1	Ca_kabuli_chr06	46346656	CC	TT	1946873507
SNP_P4_87378_46346662	NC_021165.1	Ca_kabuli_chr06	46346662	TT	AA	1946873509
SNP_P4_87379_46346689	NC_021165.1	Ca_kabuli_chr06	46346689	TT	CC	1946873511
SNP_P4_87380_46346716	NC_021165.1	Ca_kabuli_chr06	46346716	AA	GG	1946873513
SNP_P4_87381_46346854	NC_021165.1	Ca_kabuli_chr06	46346854	TT	CC	1946873515
SNP_P4_87382_46347018	NC_021165.1	Ca_kabuli_chr06	46347018	CC	TT	1946873517
SNP_P4_87383_46347081	NC_021165.1	Ca_kabuli_chr06	46347081	CC	TT	1946873519
SNP_P4_87384_46351997	NC_021165.1	Ca_kabuli_chr06	46351997	AA	GG	1946873521
SNP_P4_87385_46351999	NC_021165.1	Ca_kabuli_chr06	46351999	GG	AA	1946873523
SNP_P4_87386_46352003	NC_021165.1	Ca_kabuli_chr06	46352003	AA	GG	1946873525
SNP_P4_87387_46352019	NC_021165.1	Ca_kabuli_chr06	46352019	GG	AA	1946873527
SNP_P4_87388_46352176	NC_021165.1	Ca_kabuli_chr06	46352176	GG	AA	1946873529
SNP_P4_87389_46352181	NC_021165.1	Ca_kabuli_chr06	46352181	GG	AA	1946873531
SNP_P4_87390_46352212	NC_021165.1	Ca_kabuli_chr06	46352212	CC	AA	1946873533
SNP_P4_87391_46354330	NC_021165.1	Ca_kabuli_chr06	46354330	GG	CC	1946873535
SNP_P4_87392_46354397	NC_021165.1	Ca_kabuli_chr06	46354397	AA	GG	1946873537
SNP_P4_87393_46354850	NC_021165.1	Ca_kabuli_chr06	46354850	CC	GG	1946873539
SNP_P4_87394_46354937	NC_021165.1	Ca_kabuli_chr06	46354937	TT	AA	1946873541
SNP_P4_87395_46365987	NC_021165.1	Ca_kabuli_chr06	46365987	TT	CC	1946873543
SNP_P4_87396_46368078	NC_021165.1	Ca_kabuli_chr06	46368078	TT	CC	1946873545

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_87398_46368965	NC_021165.1	Ca_kabuli_chr06	46368965	GG	AA	1946873549
SNP_P4_87399_46369091	NC_021165.1	Ca_kabuli_chr06	46369091	GG	CC	1946873551
SNP_P4_87400_46369159	NC_021165.1	Ca_kabuli_chr06	46369159	GG	CC	1946873553
SNP_P4_87401_46369221	NC_021165.1	Ca_kabuli_chr06	46369221	AA	CC	1946873555
SNP_P4_87402_46369314	NC_021165.1	Ca_kabuli_chr06	46369314	TT	CC	1946873557
SNP_P4_87403_46369442	NC_021165.1	Ca_kabuli_chr06	46369442	AA	GG	1946873559
SNP_P4_87404_46369494	NC_021165.1	Ca_kabuli_chr06	46369494	TT	CC	1946873561
SNP_P4_87405_46369548	NC_021165.1	Ca_kabuli_chr06	46369548	TT	CC	1946873563
SNP_P4_87406_46369570	NC_021165.1	Ca_kabuli_chr06	46369570	AA	CC	1946873565
SNP_P4_87407_46369584	NC_021165.1	Ca_kabuli_chr06	46369584	AA	CC	1946873567
SNP_P4_87408_46369801	NC_021165.1	Ca_kabuli_chr06	46369801	AA	GG	1946873569
SNP_P4_87409_46385492	NC_021165.1	Ca_kabuli_chr06	46385492	CC	AA	1946873571
SNP_P4_87410_46385816	NC_021165.1	Ca_kabuli_chr06	46385816	CC	TT	1946873573
SNP_P4_87411_46385918	NC_021165.1	Ca_kabuli_chr06	46385918	AA	TT	1946873575
SNP_P4_87412_46385934	NC_021165.1	Ca_kabuli_chr06	46385934	GG	CC	1946873577
SNP_P4_87413_46385939	NC_021165.1	Ca_kabuli_chr06	46385939	GG	AA	1946873579
SNP_P4_87414_46388177	NC_021165.1	Ca_kabuli_chr06	46388177	AA	TT	1946873581
SNP_P4_87415_46388387	NC_021165.1	Ca_kabuli_chr06	46388387	GG	AA	1946873583
SNP_P4_87416_46388400	NC_021165.1	Ca_kabuli_chr06	46388400	TT	AA	1946873585
SNP_P4_87417_46388446	NC_021165.1	Ca_kabuli_chr06	46388446	AA	TT	1946873587
SNP_P4_87418_46388462	NC_021165.1	Ca_kabuli_chr06	46388462	AA	CC	1946873589
SNP_P4_87419_46388464	NC_021165.1	Ca_kabuli_chr06	46388464	GG	AA	1946873590
SNP_P4_87420_46388613	NC_021165.1	Ca_kabuli_chr06	46388613	CC	TT	1946873592
SNP_P4_87421_46390991	NC_021165.1	Ca_kabuli_chr06	46390991	AA	TT	1946873594
SNP_P4_87422_46391002	NC_021165.1	Ca_kabuli_chr06	46391002	TT	AA	1946873596
SNP_P4_87423_46391031	NC_021165.1	Ca_kabuli_chr06	46391031	TT	AA	1946873598
SNP_P4_87424_46391033	NC_021165.1	Ca_kabuli_chr06	46391033	GG	AA	1946873600
SNP_P4_87425_46391073	NC_021165.1	Ca_kabuli_chr06	46391073	AA	CC	1946873602
SNP_P4_87426_46391202	NC_021165.1	Ca_kabuli_chr06	46391202	GG	TT	1946873604
SNP_P4_87427_46391222	NC_021165.1	Ca_kabuli_chr06	46391222	CC	TT	1946873606
SNP_P4_87428_46391249	NC_021165.1	Ca_kabuli_chr06	46391249	AA	TT	1946873608
SNP_P4_87429_46391259	NC_021165.1	Ca_kabuli_chr06	46391259	TT	AA	1946873610
SNP_P4_87430_46391359	NC_021165.1	Ca_kabuli_chr06	46391359	GG	AA	1946873612
SNP_P4_87431_46391361	NC_021165.1	Ca_kabuli_chr06	46391361	TT	CC	1946873615
SNP_P4_87432_46391364	NC_021165.1	Ca_kabuli_chr06	46391364	CC	AA	1946873617
SNP_P4_87433_46391429	NC_021165.1	Ca_kabuli_chr06	46391429	AA	GG	1946873619
SNP_P4_87434_46391435	NC_021165.1	Ca_kabuli_chr06	46391435	AA	TT	1946873621
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SNP_P4_87436_46391483	NC_021165.1	Ca_kabuli_chr06	46391483	TT	CC	1946873625
SNP_P4_87437_46391568	NC_021165.1	Ca_kabuli_chr06	46391568	AA	GG	1946873627
SNP_P4_87438_46391573	NC_021165.1	Ca_kabuli_chr06	46391573	TT	CC	1946873629

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_87441_46391691	NC_021165.1	Ca_kabuli_chr06	46391691	GG	AA	1946873635
SNP_P4_87442_46391823	NC_021165.1	Ca_kabuli_chr06	46391823	CC	TT	1946873637
SNP_P4_87443_46391852	NC_021165.1	Ca_kabuli_chr06	46391852	TT	CC	1946873639
SNP_P4_87444_46391933	NC_021165.1	Ca_kabuli_chr06	46391933	TT	CC	1946873641
SNP_P4_87445_46391943	NC_021165.1	Ca_kabuli_chr06	46391943	AA	GG	1946873643
SNP_P4_87446_46391960	NC_021165.1	Ca_kabuli_chr06	46391960	TT	AA	1946873645
SNP_P4_87447_46391989	NC_021165.1	Ca_kabuli_chr06	46391989	TT	CC	1946873647
SNP_P4_87448_46398183	NC_021165.1	Ca_kabuli_chr06	46398183	AA	GG	1946873649
SNP_P4_87449_46398475	NC_021165.1	Ca_kabuli_chr06	46398475	TT	CC	1946873650
SNP_P4_87450_46398537	NC_021165.1	Ca_kabuli_chr06	46398537	AA	GG	1946873652
SNP_P4_87451_46398562	NC_021165.1	Ca_kabuli_chr06	46398562	GG	AA	1946873654
SNP_P4_87452_46398600	NC_021165.1	Ca_kabuli_chr06	46398600	TT	CC	1946873656
SNP_P4_87453_46398611	NC_021165.1	Ca_kabuli_chr06	46398611	CC	GG	1946873658
SNP_P4_87454_46398799	NC_021165.1	Ca_kabuli_chr06	46398799	AA	GG	1946873660
SNP_P4_87455_46399691	NC_021165.1	Ca_kabuli_chr06	46399691	TT	CC	1946873662
SNP_P4_87456_46399701	NC_021165.1	Ca_kabuli_chr06	46399701	TT	CC	1946873664
SNP_P4_87457_46399725	NC_021165.1	Ca_kabuli_chr06	46399725	AA	GG	1946873666
SNP_P4_87458_46399742	NC_021165.1	Ca_kabuli_chr06	46399742	TT	GG	1946873668
SNP_P4_87460_46399871	NC_021165.1	Ca_kabuli_chr06	46399871	AA	GG	1946873670
SNP_P4_87461_46399888	NC_021165.1	Ca_kabuli_chr06	46399888	TT	CC	1946873672
SNP_P4_87462_46399925	NC_021165.1	Ca_kabuli_chr06	46399925	CC	TT	1946873674
SNP_P4_87463_46399935	NC_021165.1	Ca_kabuli_chr06	46399935	GG	AA	1946873676
SNP_P4_87464_46400113	NC_021165.1	Ca_kabuli_chr06	46400113	CC	TT	1946873678
SNP_P4_87465_46400146	NC_021165.1	Ca_kabuli_chr06	46400146	AA	GG	1946873680
SNP_P4_87466_46481993	NC_021165.1	Ca_kabuli_chr06	46481993	TT	AA	1946873682
SNP_P4_87467_46491803	NC_021165.1	Ca_kabuli_chr06	46491803	CC	TT	1946873684
SNP_P4_87468_46504037	NC_021165.1	Ca_kabuli_chr06	46504037	GG	AA	1946873686
SNP_P4_87469_46504038	NC_021165.1	Ca_kabuli_chr06	46504038	AA	GG	1946873688
SNP_P4_87470_46506385	NC_021165.1	Ca_kabuli_chr06	46506385	GG	AA	1946873690
SNP_P4_87471_46506387	NC_021165.1	Ca_kabuli_chr06	46506387	CC	TT	1946873692
SNP_P4_87472_46506409	NC_021165.1	Ca_kabuli_chr06	46506409	TT	GG	1946873694
SNP_P4_87473_46506460	NC_021165.1	Ca_kabuli_chr06	46506460	GG	AA	1946873696
SNP_P4_87474_46506463	NC_021165.1	Ca_kabuli_chr06	46506463	CC	TT	1946873698
SNP_P4_87475_46508774	NC_021165.1	Ca_kabuli_chr06	46508774	CC	AA	1946873700
SNP_P4_87477_46576873	NC_021165.1	Ca_kabuli_chr06	46576873	GG	AA	1946873702
SNP_P4_87478_46577462	NC_021165.1	Ca_kabuli_chr06	46577462	TT	CC	1946873704
SNP_P4_87479_46610483	NC_021165.1	Ca_kabuli_chr06	46610483	TT	CC	1946873706
SNP_P4_87480_46621153	NC_021165.1	Ca_kabuli_chr06	46621153	TT	CC	1946873708
SNP_P4_87481_46621613	NC_021165.1	Ca_kabuli_chr06	46621613	TT	CC	1946873710
SNP_P4_87482_46679658	NC_021165.1	Ca_kabuli_chr06	46679658	GG	TT	1946873712

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_87483_46679659	NC_021165.1	Ca_kabuli_chr06	46679659	AA	GG	1946873714
SNP_P4_87484_46689990	NC_021165.1	Ca_kabuli_chr06	46689990	TT	AA	1946873716
SNP_P4_87485_46690086	NC_021165.1	Ca_kabuli_chr06	46690086	CC	TT	1946873718
SNP_P4_87486_46690112	NC_021165.1	Ca_kabuli_chr06	46690112	GG	TT	1946873720
SNP_P4_87487_46690182	NC_021165.1	Ca_kabuli_chr06	46690182	AA	GG	1946873722
SNP_P4_87488_46690258	NC_021165.1	Ca_kabuli_chr06	46690258	TT	GG	1946873724
SNP_P4_87489_46690333	NC_021165.1	Ca_kabuli_chr06	46690333	AA	GG	1946873726
SNP_P4_87490_46690335	NC_021165.1	Ca_kabuli_chr06	46690335	AA	GG	1946873728
SNP_P4_87491_46690341	NC_021165.1	Ca_kabuli_chr06	46690341	GG	AA	1946873730
SNP_P4_87492_46690353	NC_021165.1	Ca_kabuli_chr06	46690353	TT	CC	1946873732
SNP_P4_87493_46690429	NC_021165.1	Ca_kabuli_chr06	46690429	TT	CC	1946873734
SNP_P4_87494_46690432	NC_021165.1	Ca_kabuli_chr06	46690432	AA	GG	1946873736
SNP_P4_87495_46690449	NC_021165.1	Ca_kabuli_chr06	46690449	AA	GG	1946873738
SNP_P4_87496_46690498	NC_021165.1	Ca_kabuli_chr06	46690498	AA	GG	1946873740
SNP_P4_87497_46690502	NC_021165.1	Ca_kabuli_chr06	46690502	TT	CC	1946873742
SNP_P4_87498_46690514	NC_021165.1	Ca_kabuli_chr06	46690514	CC	TT	1946873744
SNP_P4_87499_46690580	NC_021165.1	Ca_kabuli_chr06	46690580	AA	CC	1946873746
SNP_P4_87500_46690583	NC_021165.1	Ca_kabuli_chr06	46690583	TT	CC	1946873748
SNP_P4_87501_46690891	NC_021165.1	Ca_kabuli_chr06	46690891	AA	GG	1946873750
SNP_P4_87502_46763357	NC_021165.1	Ca_kabuli_chr06	46763357	GG	CC	1946873752
SNP_P4_87503_46772284	NC_021165.1	Ca_kabuli_chr06	46772284	GG	AA	1946873754
SNP_P4_87504_46772311	NC_021165.1	Ca_kabuli_chr06	46772311	GG	CC	1946873756
SNP_P4_87505_46772325	NC_021165.1	Ca_kabuli_chr06	46772325	TT	GG	1946873758
SNP_P4_87506_46772329	NC_021165.1	Ca_kabuli_chr06	46772329	CC	AA	1946873760
SNP_P4_87507_46772333	NC_021165.1	Ca_kabuli_chr06	46772333	AA	GG	1946873762
SNP_P4_87508_46772733	NC_021165.1	Ca_kabuli_chr06	46772733	TT	GG	1946873764
SNP_P4_87509_46772917	NC_021165.1	Ca_kabuli_chr06	46772917	CC	TT	1946873766
SNP_P4_87511_46773681	NC_021165.1	Ca_kabuli_chr06	46773681	CC	TT	1946873768
SNP_P4_87512_46779478	NC_021165.1	Ca_kabuli_chr06	46779478	GG	AA	1946873770
SNP_P4_87513_46789806	NC_021165.1	Ca_kabuli_chr06	46789806	CC	TT	1946873772
SNP_P4_87515_46790070	NC_021165.1	Ca_kabuli_chr06	46790070	TT	AA	1946873774
SNP_P4_87516_46795871	NC_021165.1	Ca_kabuli_chr06	46795871	GG	TT	1946873776
SNP_P4_87517_46796715	NC_021165.1	Ca_kabuli_chr06	46796715	CC	AA	1946873778
SNP_P4_87518_46797063	NC_021165.1	Ca_kabuli_chr06	46797063	TT	CC	1946873780
SNP_P4_87519_46797078	NC_021165.1	Ca_kabuli_chr06	46797078	TT	CC	1946873782
SNP_P4_87520_46817622	NC_021165.1	Ca_kabuli_chr06	46817622	CC	AA	1946873784
SNP_P4_87521_46819012	NC_021165.1	Ca_kabuli_chr06	46819012	TT	AA	1946873786
SNP_P4_87523_46848092	NC_021165.1	Ca_kabuli_chr06	46848092	CC	TT	1946873788
SNP_P4_87524_46848093	NC_021165.1	Ca_kabuli_chr06	46848093	TT	CC	1946873790
SNP_P4_87525_46848742	NC_021165.1	Ca_kabuli_chr06	46848742	TT	AA	1946873792
SNP_P4_87526_46848743	NC_021165.1	Ca_kabuli_chr06	46848743	TT	CC	1946873794
SNP_P4_87527_46896666	NC_021165.1	Ca_kabuli_chr06	46896666	TT	GG	1946873796

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_87529_46896903	NC_021165.1	Ca_kabuli_chr06	46896903	CC	TT	1946873800
SNP_P4_87530_46896934	NC_021165.1	Ca_kabuli_chr06	46896934	CC	GG	1946873802
SNP_P4_87531_46897210	NC_021165.1	Ca_kabuli_chr06	46897210	GG	TT	1946873804
SNP_P4_87532_46897710	NC_021165.1	Ca_kabuli_chr06	46897710	AA	GG	1946873806
SNP_P4_87533_46897930	NC_021165.1	Ca_kabuli_chr06	46897930	CC	TT	1946873808
SNP_P4_87534_46898502	NC_021165.1	Ca_kabuli_chr06	46898502	CC	AA	1946873810
SNP_P4_87535_46898640	NC_021165.1	Ca_kabuli_chr06	46898640	CC	GG	1946873812
SNP_P4_87536_46898828	NC_021165.1	Ca_kabuli_chr06	46898828	CC	TT	1946873814
SNP_P4_87537_46899229	NC_021165.1	Ca_kabuli_chr06	46899229	GG	AA	1946873816
SNP_P4_87538_46993353	NC_021165.1	Ca_kabuli_chr06	46993353	AA	CC	1946873818
SNP_P4_87539_46996795	NC_021165.1	Ca_kabuli_chr06	46996795	AA	GG	1946873820
SNP_P4_87540_46997112	NC_021165.1	Ca_kabuli_chr06	46997112	GG	AA	1946873822
SNP_P4_87541_47001025	NC_021165.1	Ca_kabuli_chr06	47001025	GG	TT	1946873824
SNP_P4_87543_47001105	NC_021165.1	Ca_kabuli_chr06	47001105	TT	CC	1946873827
SNP_P4_87544_47001142	NC_021165.1	Ca_kabuli_chr06	47001142	GG	AA	1946873829
SNP_P4_87545_47001167	NC_021165.1	Ca_kabuli_chr06	47001167	CC	GG	1946873831
SNP_P4_87546_47002237	NC_021165.1	Ca_kabuli_chr06	47002237	CC	TT	1946873833
SNP_P4_87547_47002484	NC_021165.1	Ca_kabuli_chr06	47002484	AA	TT	1946873835
SNP_P4_87551_47056449	NC_021165.1	Ca_kabuli_chr06	47056449	GG	AA	1946873836
SNP_P4_87552_47073903	NC_021165.1	Ca_kabuli_chr06	47073903	CC	AA	1946873839
SNP_P4_87553_47075435	NC_021165.1	Ca_kabuli_chr06	47075435	CC	TT	1946873841
SNP_P4_87554_47130531	NC_021165.1	Ca_kabuli_chr06	47130531	TT	GG	1946873843
SNP_P4_87555_47134887	NC_021165.1	Ca_kabuli_chr06	47134887	GG	AA	1946873845
SNP_P4_87556_47141301	NC_021165.1	Ca_kabuli_chr06	47141301	CC	TT	1946873846
SNP_P4_87558_47141653	NC_021165.1	Ca_kabuli_chr06	47141653	TT	CC	1946873848
SNP_P4_87559_47141675	NC_021165.1	Ca_kabuli_chr06	47141675	TT	GG	1946873850
SNP_P4_87560_47148881	NC_021165.1	Ca_kabuli_chr06	47148881	AA	GG	1946873852
SNP_P4_87561_47149056	NC_021165.1	Ca_kabuli_chr06	47149056	AA	CC	1946873854
SNP_P4_87562_47149066	NC_021165.1	Ca_kabuli_chr06	47149066	CC	AA	1946873856
SNP_P4_87563_47149070	NC_021165.1	Ca_kabuli_chr06	47149070	TT	CC	1946873858
SNP_P4_87564_47149086	NC_021165.1	Ca_kabuli_chr06	47149086	AA	GG	1946873860
SNP_P4_87565_47149096	NC_021165.1	Ca_kabuli_chr06	47149096	AA	CC	1946873862
SNP_P4_87566_47149099	NC_021165.1	Ca_kabuli_chr06	47149099	GG	CC	1946873864
SNP_P4_87567_47149161	NC_021165.1	Ca_kabuli_chr06	47149161	TT	CC	1946873866
SNP_P4_87568_47149205	NC_021165.1	Ca_kabuli_chr06	47149205	CC	AA	1946873868
SNP_P4_87569_47149208	NC_021165.1	Ca_kabuli_chr06	47149208	CC	TT	1946873870
SNP_P4_87570_47149224	NC_021165.1	Ca_kabuli_chr06	47149224	TT	CC	1946873872
SNP_P4_87571_47149237	NC_021165.1	Ca_kabuli_chr06	47149237	TT	AA	1946873874
SNP_P4_87572_47151211	NC_021165.1	Ca_kabuli_chr06	47151211	GG	AA	1946873876
SNP_P4_87573_47151251	NC_021165.1	Ca_kabuli_chr06	47151251	GG	AA	1946873878
SNP_P4_87574_47151270	NC_021165.1	Ca_kabuli_chr06	47151270	AA	CC	1946873880

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_87576_47151595	NC_021165.1	Ca_kabuli_chr06	47151595	AA	GG	1946873884
SNP_P4_87577_47151615	NC_021165.1	Ca_kabuli_chr06	47151615	TT	CC	1946873886
SNP_P4_87578_47209648	NC_021165.1	Ca_kabuli_chr06	47209648	GG	CC	1946873888
SNP_P4_87579_47209713	NC_021165.1	Ca_kabuli_chr06	47209713	GG	TT	1946873890
SNP_P4_87580_47209981	NC_021165.1	Ca_kabuli_chr06	47209981	TT	CC	1946873892
SNP_P4_87581_47209986	NC_021165.1	Ca_kabuli_chr06	47209986	CC	TT	1946873894
SNP_P4_87582_47210005	NC_021165.1	Ca_kabuli_chr06	47210005	CC	TT	1946873896
SNP_P4_87583_47210028	NC_021165.1	Ca_kabuli_chr06	47210028	AA	GG	1946873898
SNP_P4_87584_47217126	NC_021165.1	Ca_kabuli_chr06	47217126	GG	TT	1946873900
SNP_P4_87585_47227165	NC_021165.1	Ca_kabuli_chr06	47227165	TT	GG	1946873902
SNP_P4_87586_47227177	NC_021165.1	Ca_kabuli_chr06	47227177	TT	GG	1946873904
SNP_P4_87587_47227186	NC_021165.1	Ca_kabuli_chr06	47227186	TT	CC	1946873906
SNP_P4_87588_47227465	NC_021165.1	Ca_kabuli_chr06	47227465	AA	GG	1946873908
SNP_P4_87589_47258545	NC_021165.1	Ca_kabuli_chr06	47258545	CC	AA	1946873910
SNP_P4_87590_47260201	NC_021165.1	Ca_kabuli_chr06	47260201	AA	GG	1946873912
SNP_P4_87591_47260222	NC_021165.1	Ca_kabuli_chr06	47260222	GG	AA	1946873914
SNP_P4_87592_47267699	NC_021165.1	Ca_kabuli_chr06	47267699	AA	GG	1946873916
SNP_P4_87593_47268177	NC_021165.1	Ca_kabuli_chr06	47268177	TT	AA	1946873918
SNP_P4_87594_47268179	NC_021165.1	Ca_kabuli_chr06	47268179	AA	CC	1946873920
SNP_P4_87595_47268216	NC_021165.1	Ca_kabuli_chr06	47268216	TT	GG	1946873922
SNP_P4_87596_47290692	NC_021165.1	Ca_kabuli_chr06	47290692	GG	CC	1946873924
SNP_P4_87597_47298267	NC_021165.1	Ca_kabuli_chr06	47298267	TT	AA	1946873926
SNP_P4_87598_47298270	NC_021165.1	Ca_kabuli_chr06	47298270	AA	TT	1946873928
SNP_P4_87599_47299543	NC_021165.1	Ca_kabuli_chr06	47299543	AA	TT	1946873930
SNP_P4_87600_47299551	NC_021165.1	Ca_kabuli_chr06	47299551	GG	AA	1946873932
SNP_P4_87601_47299592	NC_021165.1	Ca_kabuli_chr06	47299592	CC	TT	1946873934
SNP_P4_87602_47299608	NC_021165.1	Ca_kabuli_chr06	47299608	TT	CC	1946873936
SNP_P4_87603_47299610	NC_021165.1	Ca_kabuli_chr06	47299610	GG	AA	1946873938
SNP_P4_87605_47312017	NC_021165.1	Ca_kabuli_chr06	47312017	TT	CC	1946873940
SNP_P4_87606_47312020	NC_021165.1	Ca_kabuli_chr06	47312020	AA	GG	1946873942
SNP_P4_87607_47312050	NC_021165.1	Ca_kabuli_chr06	47312050	GG	AA	1946873944
SNP_P4_87608_47312267	NC_021165.1	Ca_kabuli_chr06	47312267	AA	GG	1946873946
SNP_P4_87609_47312295	NC_021165.1	Ca_kabuli_chr06	47312295	TT	CC	1946873948
SNP_P4_87610_47312346	NC_021165.1	Ca_kabuli_chr06	47312346	CC	TT	1946873950
SNP_P4_87612_47312527	NC_021165.1	Ca_kabuli_chr06	47312527	AA	TT	1946873952
SNP_P4_87613_47312562	NC_021165.1	Ca_kabuli_chr06	47312562	AA	GG	1946873954
SNP_P4_87614_47312586	NC_021165.1	Ca_kabuli_chr06	47312586	CC	TT	1946873956
SNP_P4_87615_47312595	NC_021165.1	Ca_kabuli_chr06	47312595	CC	TT	1946873958
SNP_P4_87616_47332062	NC_021165.1	Ca_kabuli_chr06	47332062	GG	AA	1946873960
SNP_P4_87617_47341678	NC_021165.1	Ca_kabuli_chr06	47341678	TT	CC	1946873962
SNP_P4_87618_47361065	NC_021165.1	Ca_kabuli_chr06	47361065	AA	TT	1946873964

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_87620_47438086	NC_021165.1	Ca_kabuli_chr06	47438086	TT	CC	1946873968
SNP_P4_87621_47468816	NC_021165.1	Ca_kabuli_chr06	47468816	GG	AA	1946873970
SNP_P4_87622_47504431	NC_021165.1	Ca_kabuli_chr06	47504431	AA	GG	1946873972
SNP_P4_87623_47505180	NC_021165.1	Ca_kabuli_chr06	47505180	AA	GG	1946873974
SNP_P4_87624_47505367	NC_021165.1	Ca_kabuli_chr06	47505367	AA	CC	1946873976
SNP_P4_87625_47505464	NC_021165.1	Ca_kabuli_chr06	47505464	TT	GG	1946873978
SNP_P4_87626_47505470	NC_021165.1	Ca_kabuli_chr06	47505470	GG	AA	1946873980
SNP_P4_87627_47507413	NC_021165.1	Ca_kabuli_chr06	47507413	GG	AA	1946873982
SNP_P4_87628_47509060	NC_021165.1	Ca_kabuli_chr06	47509060	CC	TT	1946873984
SNP_P4_87629_47509094	NC_021165.1	Ca_kabuli_chr06	47509094	TT	CC	1946873986
SNP_P4_87630_47509096	NC_021165.1	Ca_kabuli_chr06	47509096	AA	GG	1946873988
SNP_P4_87631_47509097	NC_021165.1	Ca_kabuli_chr06	47509097	GG	CC	1946873990
SNP_P4_87632_47509422	NC_021165.1	Ca_kabuli_chr06	47509422	AA	TT	1946873992
SNP_P4_87633_47509444	NC_021165.1	Ca_kabuli_chr06	47509444	CC	AA	1946873994
SNP_P4_87635_47563240	NC_021165.1	Ca_kabuli_chr06	47563240	CC	TT	1946873996
SNP_P4_87636_47568503	NC_021165.1	Ca_kabuli_chr06	47568503	GG	AA	1946873998
SNP_P4_87637_47571056	NC_021165.1	Ca_kabuli_chr06	47571056	CC	AA	1946874000
SNP_P4_87638_47580946	NC_021165.1	Ca_kabuli_chr06	47580946	CC	TT	1946874002
SNP_P4_87639_47588138	NC_021165.1	Ca_kabuli_chr06	47588138	AA	CC	1946874004
SNP_P4_87640_47609273	NC_021165.1	Ca_kabuli_chr06	47609273	TT	CC	1946874006
SNP_P4_87641_47615175	NC_021165.1	Ca_kabuli_chr06	47615175	CC	TT	1946874008
SNP_P4_87643_47616872	NC_021165.1	Ca_kabuli_chr06	47616872	AA	GG	1946874010
SNP_P4_87644_47617206	NC_021165.1	Ca_kabuli_chr06	47617206	GG	AA	1946874012
SNP_P4_87645_47619173	NC_021165.1	Ca_kabuli_chr06	47619173	GG	AA	1946874014
SNP_P4_87646_47620581	NC_021165.1	Ca_kabuli_chr06	47620581	GG	AA	1946874016
SNP_P4_87647_47620626	NC_021165.1	Ca_kabuli_chr06	47620626	GG	AA	1946874018
SNP_P4_87648_47621979	NC_021165.1	Ca_kabuli_chr06	47621979	GG	AA	1946874020
SNP_P4_87649_47622022	NC_021165.1	Ca_kabuli_chr06	47622022	GG	AA	1946874022
SNP_P4_87650_47622067	NC_021165.1	Ca_kabuli_chr06	47622067	AA	CC	1946874024
SNP_P4_87651_47622072	NC_021165.1	Ca_kabuli_chr06	47622072	AA	GG	1946874026
SNP_P4_87652_47622244	NC_021165.1	Ca_kabuli_chr06	47622244	CC	GG	1946874028
SNP_P4_87653_47622264	NC_021165.1	Ca_kabuli_chr06	47622264	AA	GG	1946874030
SNP_P4_87654_47622281	NC_021165.1	Ca_kabuli_chr06	47622281	AA	CC	1946874032
SNP_P4_87655_47622282	NC_021165.1	Ca_kabuli_chr06	47622282	AA	GG	1946874034
SNP_P4_87656_47647504	NC_021165.1	Ca_kabuli_chr06	47647504	AA	GG	1946874036
SNP_P4_87657_47647524	NC_021165.1	Ca_kabuli_chr06	47647524	GG	AA	1946874038
SNP_P4_87658_47654007	NC_021165.1	Ca_kabuli_chr06	47654007	TT	CC	1946874040
SNP_P4_87659_47654265	NC_021165.1	Ca_kabuli_chr06	47654265	AA	GG	1946874042
SNP_P4_87660_47654306	NC_021165.1	Ca_kabuli_chr06	47654306	GG	CC	1946874044
SNP_P4_87661_47654323	NC_021165.1	Ca_kabuli_chr06	47654323	TT	GG	1946874046
SNP_P4_87662_47654331	NC_021165.1	Ca_kabuli_chr06	47654331	TT	AA	1946874048

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_87664_47656383	NC_021165.1	Ca_kabuli_chr06	47656383	GG	AA	1946874052
SNP_P4_87665_47656385	NC_021165.1	Ca_kabuli_chr06	47656385	TT	CC	1946874054
SNP_P4_87666_47657141	NC_021165.1	Ca_kabuli_chr06	47657141	GG	TT	1946874056
SNP_P4_87667_47657147	NC_021165.1	Ca_kabuli_chr06	47657147	AA	CC	1946874058
SNP_P4_87668_47657633	NC_021165.1	Ca_kabuli_chr06	47657633	CC	AA	1946874060
SNP_P4_87669_47657664	NC_021165.1	Ca_kabuli_chr06	47657664	GG	AA	1946874062
SNP_P4_87670_47657667	NC_021165.1	Ca_kabuli_chr06	47657667	GG	AA	1946874064
SNP_P4_87671_47657683	NC_021165.1	Ca_kabuli_chr06	47657683	GG	AA	1946874066
SNP_P4_87672_47658657	NC_021165.1	Ca_kabuli_chr06	47658657	CC	TT	1946874068
SNP_P4_87673_47675179	NC_021165.1	Ca_kabuli_chr06	47675179	GG	AA	1946874070
SNP_P4_87674_47675497	NC_021165.1	Ca_kabuli_chr06	47675497	TT	AA	1946874072
SNP_P4_87675_47675696	NC_021165.1	Ca_kabuli_chr06	47675696	TT	GG	1946874074
SNP_P4_87676_47675737	NC_021165.1	Ca_kabuli_chr06	47675737	CC	TT	1946874076
SNP_P4_87677_47697567	NC_021165.1	Ca_kabuli_chr06	47697567	GG	AA	1946874077
SNP_P4_87678_47697671	NC_021165.1	Ca_kabuli_chr06	47697671	GG	AA	1946874079
SNP_P4_87679_47697851	NC_021165.1	Ca_kabuli_chr06	47697851	CC	GG	1946874081
SNP_P4_87680_47697924	NC_021165.1	Ca_kabuli_chr06	47697924	AA	CC	1946874083
SNP_P4_87681_47698044	NC_021165.1	Ca_kabuli_chr06	47698044	GG	CC	1946874085
SNP_P4_87682_47698052	NC_021165.1	Ca_kabuli_chr06	47698052	AA	GG	1946874087
SNP_P4_87683_47699206	NC_021165.1	Ca_kabuli_chr06	47699206	AA	GG	1946874089
SNP_P4_87684_47699252	NC_021165.1	Ca_kabuli_chr06	47699252	TT	CC	1946874091
SNP_P4_87685_47699526	NC_021165.1	Ca_kabuli_chr06	47699526	TT	GG	1946874093
SNP_P4_87686_47699527	NC_021165.1	Ca_kabuli_chr06	47699527	GG	TT	1946874095
SNP_P4_87687_47699545	NC_021165.1	Ca_kabuli_chr06	47699545	AA	GG	1946874097
SNP_P4_87688_47699567	NC_021165.1	Ca_kabuli_chr06	47699567	TT	AA	1946874099
SNP_P4_87690_47702252	NC_021165.1	Ca_kabuli_chr06	47702252	TT	AA	1946874101
SNP_P4_87691_47708590	NC_021165.1	Ca_kabuli_chr06	47708590	GG	CC	1946874103
SNP_P4_87692_47708595	NC_021165.1	Ca_kabuli_chr06	47708595	CC	TT	1946874105
SNP_P4_87693_47708596	NC_021165.1	Ca_kabuli_chr06	47708596	TT	GG	1946874107
SNP_P4_87694_47716666	NC_021165.1	Ca_kabuli_chr06	47716666	TT	CC	1946874109
SNP_P4_87695_47716746	NC_021165.1	Ca_kabuli_chr06	47716746	GG	AA	1946874111
SNP_P4_87696_47716896	NC_021165.1	Ca_kabuli_chr06	47716896	CC	TT	1946874113
SNP_P4_87697_47716911	NC_021165.1	Ca_kabuli_chr06	47716911	CC	TT	1946874115
SNP_P4_87698_47716924	NC_021165.1	Ca_kabuli_chr06	47716924	CC	TT	1946874117
SNP_P4_87699_47717039	NC_021165.1	Ca_kabuli_chr06	47717039	CC	GG	1946874119
SNP_P4_87700_47717056	NC_021165.1	Ca_kabuli_chr06	47717056	TT	GG	1946874121
SNP_P4_87701_47717096	NC_021165.1	Ca_kabuli_chr06	47717096	AA	CC	1946874123
SNP_P4_87702_47717106	NC_021165.1	Ca_kabuli_chr06	47717106	CC	TT	1946874125
SNP_P4_87703_47717190	NC_021165.1	Ca_kabuli_chr06	47717190	GG	AA	1946874127
SNP_P4_87704_47721765	NC_021165.1	Ca_kabuli_chr06	47721765	TT	CC	1946874129
SNP_P4_87705_47721769	NC_021165.1	Ca_kabuli_chr06	47721769	CC	TT	1946874131

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_87707_47721778	NC_021165.1	Ca_kabuli_chr06	47721778	CC	GG	1946874135
SNP_P4_87708_47722930	NC_021165.1	Ca_kabuli_chr06	47722930	AA	GG	1946874137
SNP_P4_87709_47723049	NC_021165.1	Ca_kabuli_chr06	47723049	CC	AA	1946874139
SNP_P4_87710_47723050	NC_021165.1	Ca_kabuli_chr06	47723050	TT	CC	1946874141
SNP_P4_87711_47723065	NC_021165.1	Ca_kabuli_chr06	47723065	AA	GG	1946874143
SNP_P4_87712_47723077	NC_021165.1	Ca_kabuli_chr06	47723077	TT	AA	1946874145
SNP_P4_87713_47723083	NC_021165.1	Ca_kabuli_chr06	47723083	CC	TT	1946874148
SNP_P4_87714_47723368	NC_021165.1	Ca_kabuli_chr06	47723368	TT	GG	1946874150
SNP_P4_87715_47737935	NC_021165.1	Ca_kabuli_chr06	47737935	TT	AA	1946874152
SNP_P4_87716_47745853	NC_021165.1	Ca_kabuli_chr06	47745853	AA	GG	1946874154
SNP_P4_87717_47745887	NC_021165.1	Ca_kabuli_chr06	47745887	CC	AA	1946874156
SNP_P4_87718_47753623	NC_021165.1	Ca_kabuli_chr06	47753623	TT	CC	1946874158
SNP_P4_87719_47753658	NC_021165.1	Ca_kabuli_chr06	47753658	AA	GG	1946874160
SNP_P4_87720_47753728	NC_021165.1	Ca_kabuli_chr06	47753728	TT	GG	1946874162
SNP_P4_87721_47754029	NC_021165.1	Ca_kabuli_chr06	47754029	CC	TT	1946874164
SNP_P4_87722_47758812	NC_021165.1	Ca_kabuli_chr06	47758812	AA	GG	1946874166
SNP_P4_87723_47758837	NC_021165.1	Ca_kabuli_chr06	47758837	AA	GG	1946874168
SNP_P4_87724_47758851	NC_021165.1	Ca_kabuli_chr06	47758851	CC	TT	1946874170
SNP_P4_87725_47758859	NC_021165.1	Ca_kabuli_chr06	47758859	AA	GG	1946874172
SNP_P4_87726_47758874	NC_021165.1	Ca_kabuli_chr06	47758874	AA	GG	1946874174
SNP_P4_87727_47758921	NC_021165.1	Ca_kabuli_chr06	47758921	AA	GG	1946874176
SNP_P4_87728_47758925	NC_021165.1	Ca_kabuli_chr06	47758925	GG	AA	1946874178
SNP_P4_87729_47760741	NC_021165.1	Ca_kabuli_chr06	47760741	GG	AA	1946874180
SNP_P4_87730_47761044	NC_021165.1	Ca_kabuli_chr06	47761044	CC	GG	1946874182
SNP_P4_87731_47761064	NC_021165.1	Ca_kabuli_chr06	47761064	CC	AA	1946874184
SNP_P4_87732_47779022	NC_021165.1	Ca_kabuli_chr06	47779022	TT	CC	1946874186
SNP_P4_87733_47779071	NC_021165.1	Ca_kabuli_chr06	47779071	GG	CC	1946874189
SNP_P4_87734_47779082	NC_021165.1	Ca_kabuli_chr06	47779082	AA	CC	1946874191
SNP_P4_87735_47779250	NC_021165.1	Ca_kabuli_chr06	47779250	TT	CC	1946874193
SNP_P4_87736_47779290	NC_021165.1	Ca_kabuli_chr06	47779290	CC	TT	1946874195
SNP_P4_87737_47783708	NC_021165.1	Ca_kabuli_chr06	47783708	TT	AA	1946874197
SNP_P4_87740_47798352	NC_021165.1	Ca_kabuli_chr06	47798352	CC	GG	1946874199
SNP_P4_87741_47805921	NC_021165.1	Ca_kabuli_chr06	47805921	GG	TT	1946874201
SNP_P4_87742_47815919	NC_021165.1	Ca_kabuli_chr06	47815919	GG	TT	1946874203
SNP_P4_87743_47829991	NC_021165.1	Ca_kabuli_chr06	47829991	TT	CC	1946874205
SNP_P4_87744_47830019	NC_021165.1	Ca_kabuli_chr06	47830019	GG	AA	1946874207
SNP_P4_87745_47830020	NC_021165.1	Ca_kabuli_chr06	47830020	CC	TT	1946874209
SNP_P4_87746_47830096	NC_021165.1	Ca_kabuli_chr06	47830096	TT	GG	1946874211
SNP_P4_87747_47830520	NC_021165.1	Ca_kabuli_chr06	47830520	CC	TT	1946874213
SNP_P4_87748_47830601	NC_021165.1	Ca_kabuli_chr06	47830601	GG	AA	1946874215
SNP_P4_87750_47837797	NC_021165.1	Ca_kabuli_chr06	47837797	GG	AA	1946874217

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_87753_47904994	NC_021165.1	Ca_kabuli_chr06	47904994	TT	AA	1946874221
SNP_P4_87754_47905387	NC_021165.1	Ca_kabuli_chr06	47905387	TT	AA	1946874223
SNP_P4_87755_47906227	NC_021165.1	Ca_kabuli_chr06	47906227	AA	CC	1946874225
SNP_P4_87756_47906243	NC_021165.1	Ca_kabuli_chr06	47906243	AA	CC	1946874227
SNP_P4_87758_47906312	NC_021165.1	Ca_kabuli_chr06	47906312	TT	CC	1946874229
SNP_P4_87759_47906452	NC_021165.1	Ca_kabuli_chr06	47906452	TT	AA	1946874231
SNP_P4_87760_47906461	NC_021165.1	Ca_kabuli_chr06	47906461	GG	TT	1946874233
SNP_P4_87761_47910514	NC_021165.1	Ca_kabuli_chr06	47910514	GG	AA	1946874235
SNP_P4_87762_47910517	NC_021165.1	Ca_kabuli_chr06	47910517	CC	TT	1946874238
SNP_P4_87763_47910557	NC_021165.1	Ca_kabuli_chr06	47910557	AA	GG	1946874240
SNP_P4_87764_47910568	NC_021165.1	Ca_kabuli_chr06	47910568	GG	AA	1946874242
SNP_P4_87765_47910631	NC_021165.1	Ca_kabuli_chr06	47910631	GG	TT	1946874244
SNP_P4_87766_47910797	NC_021165.1	Ca_kabuli_chr06	47910797	GG	TT	1946874246
SNP_P4_87767_47930510	NC_021165.1	Ca_kabuli_chr06	47930510	GG	CC	1946874248
SNP_P4_87768_47946346	NC_021165.1	Ca_kabuli_chr06	47946346	GG	AA	1946874250
SNP_P4_87769_47947755	NC_021165.1	Ca_kabuli_chr06	47947755	CC	TT	1946874252
SNP_P4_87770_47947792	NC_021165.1	Ca_kabuli_chr06	47947792	TT	CC	1946874254
SNP_P4_87771_47947816	NC_021165.1	Ca_kabuli_chr06	47947816	AA	GG	1946874256
SNP_P4_87772_47947846	NC_021165.1	Ca_kabuli_chr06	47947846	TT	CC	1946874258
SNP_P4_87773_47947852	NC_021165.1	Ca_kabuli_chr06	47947852	TT	CC	1946874260
SNP_P4_87774_47947860	NC_021165.1	Ca_kabuli_chr06	47947860	TT	GG	1946874262
SNP_P4_87775_47947866	NC_021165.1	Ca_kabuli_chr06	47947866	AA	GG	1946874264
SNP_P4_87776_47947879	NC_021165.1	Ca_kabuli_chr06	47947879	CC	TT	1946874265
SNP_P4_87777_47947942	NC_021165.1	Ca_kabuli_chr06	47947942	GG	AA	1946874266
SNP_P4_87778_47947951	NC_021165.1	Ca_kabuli_chr06	47947951	TT	CC	1946874267
SNP_P4_87779_47947954	NC_021165.1	Ca_kabuli_chr06	47947954	TT	GG	1946874268
SNP_P4_87780_47947972	NC_021165.1	Ca_kabuli_chr06	47947972	CC	AA	1946874269
SNP_P4_87781_47948086	NC_021165.1	Ca_kabuli_chr06	47948086	GG	AA	1946874270
SNP_P4_87782_47948191	NC_021165.1	Ca_kabuli_chr06	47948191	AA	GG	1946874271
SNP_P4_87783_47948194	NC_021165.1	Ca_kabuli_chr06	47948194	GG	AA	1946874273
SNP_P4_87784_47948278	NC_021165.1	Ca_kabuli_chr06	47948278	CC	TT	1946874275
SNP_P4_87785_47960885	NC_021165.1	Ca_kabuli_chr06	47960885	AA	CC	1946874277
SNP_P4_87786_47993066	NC_021165.1	Ca_kabuli_chr06	47993066	TT	AA	1946874279
SNP_P4_87787_47993439	NC_021165.1	Ca_kabuli_chr06	47993439	CC	TT	1946874281
SNP_P4_87788_48003554	NC_021165.1	Ca_kabuli_chr06	48003554	AA	GG	1946874283
SNP_P4_87789_48003559	NC_021165.1	Ca_kabuli_chr06	48003559	GG	AA	1946874285
SNP_P4_87791_48023153	NC_021165.1	Ca_kabuli_chr06	48023153	TT	CC	1946874287
SNP_P4_87792_48034619	NC_021165.1	Ca_kabuli_chr06	48034619	AA	GG	1946874289
SNP_P4_87793_48034639	NC_021165.1	Ca_kabuli_chr06	48034639	AA	CC	1946874291
SNP_P4_87794_48034994	NC_021165.1	Ca_kabuli_chr06	48034994	GG	AA	1946874293
SNP_P4_87795_48035063	NC_021165.1	Ca_kabuli_chr06	48035063	GG	AA	1946874295

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_87798_48051454	NC_021165.1	Ca_kabuli_chr06	48051454	CC	AA	1946874299
SNP_P4_87799_48052673	NC_021165.1	Ca_kabuli_chr06	48052673	AA	GG	1946874301
SNP_P4_87800_48053668	NC_021165.1	Ca_kabuli_chr06	48053668	CC	GG	1946874303
SNP_P4_87801_48053960	NC_021165.1	Ca_kabuli_chr06	48053960	TT	GG	1946874305
SNP_P4_87802_48053989	NC_021165.1	Ca_kabuli_chr06	48053989	GG	AA	1946874307
SNP_P4_87803_48053996	NC_021165.1	Ca_kabuli_chr06	48053996	TT	CC	1946874309
SNP_P4_87804_48054034	NC_021165.1	Ca_kabuli_chr06	48054034	CC	GG	1946874311
SNP_P4_87805_48063619	NC_021165.1	Ca_kabuli_chr06	48063619	CC	TT	1946874313
SNP_P4_87806_48063626	NC_021165.1	Ca_kabuli_chr06	48063626	GG	AA	1946874315
SNP_P4_87807_48063635	NC_021165.1	Ca_kabuli_chr06	48063635	CC	TT	1946874317
SNP_P4_87808_48063659	NC_021165.1	Ca_kabuli_chr06	48063659	TT	AA	1946874319
SNP_P4_87809_48063809	NC_021165.1	Ca_kabuli_chr06	48063809	TT	CC	1946874321
SNP_P4_87810_48063837	NC_021165.1	Ca_kabuli_chr06	48063837	TT	CC	1946874323
SNP_P4_87812_48064128	NC_021165.1	Ca_kabuli_chr06	48064128	AA	TT	1946874325
SNP_P4_87813_48064210	NC_021165.1	Ca_kabuli_chr06	48064210	TT	CC	1946874327
SNP_P4_87814_48064237	NC_021165.1	Ca_kabuli_chr06	48064237	AA	GG	1946874329
SNP_P4_87815_48064253	NC_021165.1	Ca_kabuli_chr06	48064253	TT	CC	1946874331
SNP_P4_87816_48064604	NC_021165.1	Ca_kabuli_chr06	48064604	AA	GG	1946874333
SNP_P4_87817_48067490	NC_021165.1	Ca_kabuli_chr06	48067490	TT	CC	1946874335
SNP_P4_87818_48109439	NC_021165.1	Ca_kabuli_chr06	48109439	TT	CC	1946874337
SNP_P4_87819_48110078	NC_021165.1	Ca_kabuli_chr06	48110078	CC	TT	1946874339
SNP_P4_87820_48129708	NC_021165.1	Ca_kabuli_chr06	48129708	GG	AA	1946874341
SNP_P4_87822_48144570	NC_021165.1	Ca_kabuli_chr06	48144570	AA	TT	1946874343
SNP_P4_87823_48188692	NC_021165.1	Ca_kabuli_chr06	48188692	GG	TT	1946874345
SNP_P4_87824_48191554	NC_021165.1	Ca_kabuli_chr06	48191554	GG	TT	1946874347
SNP_P4_87825_48191577	NC_021165.1	Ca_kabuli_chr06	48191577	AA	GG	1946874349
SNP_P4_87826_48191615	NC_021165.1	Ca_kabuli_chr06	48191615	AA	GG	1946874351
SNP_P4_87828_48247312	NC_021165.1	Ca_kabuli_chr06	48247312	TT	AA	1946874353
SNP_P4_87829_48247437	NC_021165.1	Ca_kabuli_chr06	48247437	GG	AA	1946874355
SNP_P4_87830_48253755	NC_021165.1	Ca_kabuli_chr06	48253755	CC	TT	1946874357
SNP_P4_87831_48253805	NC_021165.1	Ca_kabuli_chr06	48253805	GG	AA	1946874359
SNP_P4_87832_48253885	NC_021165.1	Ca_kabuli_chr06	48253885	CC	TT	1946874361
SNP_P4_87833_48253949	NC_021165.1	Ca_kabuli_chr06	48253949	GG	AA	1946874363
SNP_P4_87834_48253974	NC_021165.1	Ca_kabuli_chr06	48253974	GG	AA	1946874365
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SNP_P4_87836_48256788	NC_021165.1	Ca_kabuli_chr06	48256788	GG	AA	1946874369
SNP_P4_87838_48261153	NC_021165.1	Ca_kabuli_chr06	48261153	TT	GG	1946874371
SNP_P4_87839_48262122	NC_021165.1	Ca_kabuli_chr06	48262122	TT	CC	1946874373
SNP_P4_87840_48262333	NC_021165.1	Ca_kabuli_chr06	48262333	TT	CC	1946874375
SNP_P4_87841_48262381	NC_021165.1	Ca_kabuli_chr06	48262381	AA	TT	1946874377
SNP_P4_87842_48262643	NC_021165.1	Ca_kabuli_chr06	48262643	AA	CC	1946874379

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_87845_48267450	NC_021165.1	Ca_kabuli_chr06	48267450	AA	TT	1946874385
SNP_P4_87846_48267457	NC_021165.1	Ca_kabuli_chr06	48267457	TT	CC	1946874387
SNP_P4_87848_48269409	NC_021165.1	Ca_kabuli_chr06	48269409	TT	AA	1946874389
SNP_P4_87849_48269483	NC_021165.1	Ca_kabuli_chr06	48269483	AA	TT	1946874391
SNP_P4_87850_48269706	NC_021165.1	Ca_kabuli_chr06	48269706	TT	CC	1946874393
SNP_P4_87851_48270262	NC_021165.1	Ca_kabuli_chr06	48270262	CC	TT	1946874395
SNP_P4_87852_48270267	NC_021165.1	Ca_kabuli_chr06	48270267	GG	AA	1946874397
SNP_P4_87853_48270630	NC_021165.1	Ca_kabuli_chr06	48270630	AA	CC	1946874399
SNP_P4_87854_48270752	NC_021165.1	Ca_kabuli_chr06	48270752	AA	TT	1946874401
SNP_P4_87855_48270772	NC_021165.1	Ca_kabuli_chr06	48270772	AA	GG	1946874403
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SNP_P4_87857_48270839	NC_021165.1	Ca_kabuli_chr06	48270839	AA	CC	1946874407
SNP_P4_87858_48270866	NC_021165.1	Ca_kabuli_chr06	48270866	AA	GG	1946874409
SNP_P4_87859_48270905	NC_021165.1	Ca_kabuli_chr06	48270905	GG	AA	1946874411
SNP_P4_87860_48270940	NC_021165.1	Ca_kabuli_chr06	48270940	GG	TT	1946874413
SNP_P4_87861_48270965	NC_021165.1	Ca_kabuli_chr06	48270965	AA	GG	1946874415
SNP_P4_87862_48270973	NC_021165.1	Ca_kabuli_chr06	48270973	GG	AA	1946874417
SNP_P4_87863_48270977	NC_021165.1	Ca_kabuli_chr06	48270977	TT	CC	1946874419
SNP_P4_87864_48270996	NC_021165.1	Ca_kabuli_chr06	48270996	CC	TT	1946874421
SNP_P4_87865_48271058	NC_021165.1	Ca_kabuli_chr06	48271058	TT	CC	1946874424
SNP_P4_87866_48271128	NC_021165.1	Ca_kabuli_chr06	48271128	CC	GG	1946874426
SNP_P4_87867_48271129	NC_021165.1	Ca_kabuli_chr06	48271129	AA	GG	1946874428
SNP_P4_87868_48271177	NC_021165.1	Ca_kabuli_chr06	48271177	CC	TT	1946874430
SNP_P4_87869_48271205	NC_021165.1	Ca_kabuli_chr06	48271205	TT	CC	1946874432
SNP_P4_87871_48271522	NC_021165.1	Ca_kabuli_chr06	48271522	CC	TT	1946874434
SNP_P4_87872_48271548	NC_021165.1	Ca_kabuli_chr06	48271548	GG	AA	1946874436
SNP_P4_87873_48271562	NC_021165.1	Ca_kabuli_chr06	48271562	GG	AA	1946874438
SNP_P4_87874_48276041	NC_021165.1	Ca_kabuli_chr06	48276041	TT	CC	1946874441
SNP_P4_87875_48276516	NC_021165.1	Ca_kabuli_chr06	48276516	AA	CC	1946874443
SNP_P4_87876_48276591	NC_021165.1	Ca_kabuli_chr06	48276591	TT	CC	1946874445
SNP_P4_87877_48277676	NC_021165.1	Ca_kabuli_chr06	48277676	GG	AA	1946874447
SNP_P4_87878_48277726	NC_021165.1	Ca_kabuli_chr06	48277726	GG	CC	1946874449
SNP_P4_87879_48277780	NC_021165.1	Ca_kabuli_chr06	48277780	AA	TT	1946874452
SNP_P4_87880_48278548	NC_021165.1	Ca_kabuli_chr06	48278548	TT	CC	1946874454
SNP_P4_87881_48278999	NC_021165.1	Ca_kabuli_chr06	48278999	AA	CC	1946874456
SNP_P4_87882_48279066	NC_021165.1	Ca_kabuli_chr06	48279066	CC	GG	1946874458
SNP_P4_87883_48279068	NC_021165.1	Ca_kabuli_chr06	48279068	GG	TT	1946874460
SNP_P4_87884_48279072	NC_021165.1	Ca_kabuli_chr06	48279072	TT	AA	1946874463
SNP_P4_87885_48279076	NC_021165.1	Ca_kabuli_chr06	48279076	TT	CC	1946874465
SNP_P4_87886_48279231	NC_021165.1	Ca_kabuli_chr06	48279231	TT	CC	1946874467

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_87888_48279263	NC_021165.1	Ca_kabuli_chr06	48279263	CC	GG	1946874471
SNP_P4_87889_48279275	NC_021165.1	Ca_kabuli_chr06	48279275	TT	CC	1946874474
SNP_P4_87890_48279283	NC_021165.1	Ca_kabuli_chr06	48279283	CC	TT	1946874476
SNP_P4_87891_48279331	NC_021165.1	Ca_kabuli_chr06	48279331	TT	GG	1946874478
SNP_P4_87892_48279337	NC_021165.1	Ca_kabuli_chr06	48279337	TT	AA	1946874480
SNP_P4_87893_48279381	NC_021165.1	Ca_kabuli_chr06	48279381	AA	CC	1946874482
SNP_P4_87895_48279493	NC_021165.1	Ca_kabuli_chr06	48279493	TT	CC	1946874484
SNP_P4_87896_48279555	NC_021165.1	Ca_kabuli_chr06	48279555	CC	TT	1946874486
SNP_P4_87898_48279794	NC_021165.1	Ca_kabuli_chr06	48279794	TT	CC	1946874488
SNP_P4_87899_48279850	NC_021165.1	Ca_kabuli_chr06	48279850	GG	CC	1946874490
SNP_P4_87900_48279888	NC_021165.1	Ca_kabuli_chr06	48279888	GG	CC	1946874492
SNP_P4_87901_48279935	NC_021165.1	Ca_kabuli_chr06	48279935	AA	GG	1946874494
SNP_P4_87902_48279981	NC_021165.1	Ca_kabuli_chr06	48279981	GG	AA	1946874496
SNP_P4_87903_48279983	NC_021165.1	Ca_kabuli_chr06	48279983	GG	AA	1946874498
SNP_P4_87904_48280047	NC_021165.1	Ca_kabuli_chr06	48280047	TT	AA	1946874500
SNP_P4_87905_48280053	NC_021165.1	Ca_kabuli_chr06	48280053	AA	TT	1946874502
SNP_P4_87907_48280117	NC_021165.1	Ca_kabuli_chr06	48280117	CC	GG	1946874504
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SNP_P4_87911_48280249	NC_021165.1	Ca_kabuli_chr06	48280249	CC	TT	1946874510
SNP_P4_87913_48280329	NC_021165.1	Ca_kabuli_chr06	48280329	GG	AA	1946874512
SNP_P4_87914_48280362	NC_021165.1	Ca_kabuli_chr06	48280362	GG	AA	1946874514
SNP_P4_87915_48280368	NC_021165.1	Ca_kabuli_chr06	48280368	TT	CC	1946874516
SNP_P4_87916_48280373	NC_021165.1	Ca_kabuli_chr06	48280373	AA	CC	1946874518
SNP_P4_87917_48280417	NC_021165.1	Ca_kabuli_chr06	48280417	AA	GG	1946874520
SNP_P4_87918_48280424	NC_021165.1	Ca_kabuli_chr06	48280424	GG	AA	1946874522
SNP_P4_87919_48280445	NC_021165.1	Ca_kabuli_chr06	48280445	AA	GG	1946874524
SNP_P4_87920_48280500	NC_021165.1	Ca_kabuli_chr06	48280500	GG	AA	1946874526
SNP_P4_87922_48280595	NC_021165.1	Ca_kabuli_chr06	48280595	AA	GG	1946874528
SNP_P4_87923_48280597	NC_021165.1	Ca_kabuli_chr06	48280597	AA	CC	1946874530
SNP_P4_87924_48280608	NC_021165.1	Ca_kabuli_chr06	48280608	GG	AA	1946874532
SNP_P4_87925_48280612	NC_021165.1	Ca_kabuli_chr06	48280612	AA	GG	1946874534
SNP_P4_87926_48280622	NC_021165.1	Ca_kabuli_chr06	48280622	AA	GG	1946874536
SNP_P4_87927_48280713	NC_021165.1	Ca_kabuli_chr06	48280713	AA	TT	1946874538
SNP_P4_87928_48280762	NC_021165.1	Ca_kabuli_chr06	48280762	AA	TT	1946874540
SNP_P4_87930_48280837	NC_021165.1	Ca_kabuli_chr06	48280837	AA	CC	1946874542
SNP_P4_87931_48281097	NC_021165.1	Ca_kabuli_chr06	48281097	AA	GG	1946874544
SNP_P4_87932_48281161	NC_021165.1	Ca_kabuli_chr06	48281161	CC	TT	1946874546
SNP_P4_87933_48281321	NC_021165.1	Ca_kabuli_chr06	48281321	GG	AA	1946874548
SNP_P4_87934_48281357	NC_021165.1	Ca_kabuli_chr06	48281357	TT	CC	1946874550
SNP_P4_87935_48281359	NC_021165.1	Ca_kabuli_chr06	48281359	AA	CC	1946874552

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_87938_48281410	NC_021165.1	Ca_kabuli_chr06	48281410	CC	AA	1946874556
SNP_P4_87939_48281445	NC_021165.1	Ca_kabuli_chr06	48281445	TT	GG	1946874558
SNP_P4_87940_48281508	NC_021165.1	Ca_kabuli_chr06	48281508	AA	GG	1946874560
SNP_P4_87942_48281665	NC_021165.1	Ca_kabuli_chr06	48281665	GG	CC	1946874562
SNP_P4_87943_48281668	NC_021165.1	Ca_kabuli_chr06	48281668	CC	AA	1946874564
SNP_P4_87944_48281688	NC_021165.1	Ca_kabuli_chr06	48281688	TT	CC	1946874566
SNP_P4_87945_48281822	NC_021165.1	Ca_kabuli_chr06	48281822	TT	CC	1946874568
SNP_P4_87946_48281893	NC_021165.1	Ca_kabuli_chr06	48281893	GG	AA	1946874570
SNP_P4_87947_48281894	NC_021165.1	Ca_kabuli_chr06	48281894	AA	GG	1946874572
SNP_P4_87948_48281911	NC_021165.1	Ca_kabuli_chr06	48281911	GG	CC	1946874574
SNP_P4_87949_48281932	NC_021165.1	Ca_kabuli_chr06	48281932	TT	GG	1946874576
SNP_P4_87950_48281951	NC_021165.1	Ca_kabuli_chr06	48281951	AA	GG	1946874578
SNP_P4_87951_48281960	NC_021165.1	Ca_kabuli_chr06	48281960	CC	TT	1946874580
SNP_P4_87952_48281964	NC_021165.1	Ca_kabuli_chr06	48281964	GG	AA	1946874582
SNP_P4_87953_48282068	NC_021165.1	Ca_kabuli_chr06	48282068	TT	AA	1946874584
SNP_P4_87954_48303251	NC_021165.1	Ca_kabuli_chr06	48303251	AA	CC	1946874586
SNP_P4_87955_48311730	NC_021165.1	Ca_kabuli_chr06	48311730	CC	TT	1946874588
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SNP_P4_87961_48710281	NC_021165.1	Ca_kabuli_chr06	48710281	TT	CC	1946874596
SNP_P4_87962_48710296	NC_021165.1	Ca_kabuli_chr06	48710296	TT	CC	1946874598
SNP_P4_87963_48710305	NC_021165.1	Ca_kabuli_chr06	48710305	CC	TT	1946874600
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SNP_P4_87966_48710826	NC_021165.1	Ca_kabuli_chr06	48710826	AA	CC	1946874606
SNP_P4_87967_48710846	NC_021165.1	Ca_kabuli_chr06	48710846	AA	GG	1946874608
SNP_P4_87968_48710854	NC_021165.1	Ca_kabuli_chr06	48710854	AA	GG	1946874610
SNP_P4_87969_48710886	NC_021165.1	Ca_kabuli_chr06	48710886	AA	GG	1946874612
SNP_P4_87971_48710910	NC_021165.1	Ca_kabuli_chr06	48710910	AA	GG	1946874614
SNP_P4_87972_48710935	NC_021165.1	Ca_kabuli_chr06	48710935	CC	TT	1946874616
SNP_P4_87973_48734098	NC_021165.1	Ca_kabuli_chr06	48734098	AA	GG	1946874618
SNP_P4_87974_48738348	NC_021165.1	Ca_kabuli_chr06	48738348	AA	GG	1946874620
SNP_P4_87975_48788156	NC_021165.1	Ca_kabuli_chr06	48788156	AA	GG	1946874622
SNP_P4_87976_48788552	NC_021165.1	Ca_kabuli_chr06	48788552	GG	AA	1946874624
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SNP_P4_87978_48788645	NC_021165.1	Ca_kabuli_chr06	48788645	GG	AA	1946874628
SNP_P4_87979_48791924	NC_021165.1	Ca_kabuli_chr06	48791924	AA	GG	1946874631
SNP_P4_87980_48792019	NC_021165.1	Ca_kabuli_chr06	48792019	AA	TT	1946874633
SNP_P4_87982_48792402	NC_021165.1	Ca_kabuli_chr06	48792402	TT	CC	1946874635
SNP_P4_87983_48792599	NC_021165.1	Ca_kabuli_chr06	48792599	TT	CC	1946874637

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_87986_48806114	NC_021165.1	Ca_kabuli_chr06	48806114	TT	AA	1946874643
SNP_P4_87987_48819640	NC_021165.1	Ca_kabuli_chr06	48819640	CC	TT	1946874645
SNP_P4_87989_48826774	NC_021165.1	Ca_kabuli_chr06	48826774	AA	GG	1946874647
SNP_P4_87990_48845143	NC_021165.1	Ca_kabuli_chr06	48845143	GG	TT	1946874649
SNP_P4_87992_48856440	NC_021165.1	Ca_kabuli_chr06	48856440	TT	AA	1946874651
SNP_P4_87994_48898195	NC_021165.1	Ca_kabuli_chr06	48898195	CC	TT	1946874653
SNP_P4_87995_48898249	NC_021165.1	Ca_kabuli_chr06	48898249	GG	TT	1946874655
SNP_P4_87996_48898261	NC_021165.1	Ca_kabuli_chr06	48898261	CC	TT	1946874657
SNP_P4_87997_48903993	NC_021165.1	Ca_kabuli_chr06	48903993	CC	AA	1946874659
SNP_P4_87998_48905381	NC_021165.1	Ca_kabuli_chr06	48905381	AA	TT	1946874661
SNP_P4_88000_48962227	NC_021165.1	Ca_kabuli_chr06	48962227	GG	TT	1946874663
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SNP_P4_88002_49016387	NC_021165.1	Ca_kabuli_chr06	49016387	TT	AA	1946874667
SNP_P4_88003_49016395	NC_021165.1	Ca_kabuli_chr06	49016395	AA	GG	1946874669
SNP_P4_88004_49016740	NC_021165.1	Ca_kabuli_chr06	49016740	TT	CC	1946874671
SNP_P4_88005_49016757	NC_021165.1	Ca_kabuli_chr06	49016757	AA	GG	1946874673
SNP_P4_88006_49018419	NC_021165.1	Ca_kabuli_chr06	49018419	CC	TT	1946874675
SNP_P4_88007_49018444	NC_021165.1	Ca_kabuli_chr06	49018444	AA	GG	1946874677
SNP_P4_88008_49018454	NC_021165.1	Ca_kabuli_chr06	49018454	GG	AA	1946874679
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SNP_P4_88012_49022846	NC_021165.1	Ca_kabuli_chr06	49022846	GG	CC	1946874687
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SNP_P4_88015_49029509	NC_021165.1	Ca_kabuli_chr06	49029509	TT	CC	1946874693
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SNP_P4_88017_49056513	NC_021165.1	Ca_kabuli_chr06	49056513	TT	CC	1946874697
SNP_P4_88018_49056538	NC_021165.1	Ca_kabuli_chr06	49056538	GG	AA	1946874699
SNP_P4_88019_49058653	NC_021165.1	Ca_kabuli_chr06	49058653	AA	GG	1946874701
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SNP_P4_88022_49079979	NC_021165.1	Ca_kabuli_chr06	49079979	AA	CC	1946874705
SNP_P4_88023_49086621	NC_021165.1	Ca_kabuli_chr06	49086621	TT	CC	1946874707
SNP_P4_88024_49097006	NC_021165.1	Ca_kabuli_chr06	49097006	TT	AA	1946874709
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SNP_P4_88026_49116892	NC_021165.1	Ca_kabuli_chr06	49116892	AA	CC	1946874713
SNP_P4_88027_49130607	NC_021165.1	Ca_kabuli_chr06	49130607	TT	GG	1946874715
SNP_P4_88029_49180784	NC_021165.1	Ca_kabuli_chr06	49180784	AA	GG	1946874717
SNP_P4_88030_49204218	NC_021165.1	Ca_kabuli_chr06	49204218	GG	CC	1946874719
SNP_P4_88031_49204477	NC_021165.1	Ca_kabuli_chr06	49204477	TT	AA	1946874721

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_88034_49218873	NC_021165.1	Ca_kabuli_chr06	49218873	CC	GG	1946874727
SNP_P4_88035_49218874	NC_021165.1	Ca_kabuli_chr06	49218874	AA	TT	1946874729
SNP_P4_88037_49218951	NC_021165.1	Ca_kabuli_chr06	49218951	TT	AA	1946874731
SNP_P4_88038_49219126	NC_021165.1	Ca_kabuli_chr06	49219126	GG	AA	1946874733
SNP_P4_88039_49219423	NC_021165.1	Ca_kabuli_chr06	49219423	AA	CC	1946874735
SNP_P4_88040_49219430	NC_021165.1	Ca_kabuli_chr06	49219430	AA	CC	1946874737
SNP_P4_88041_49219557	NC_021165.1	Ca_kabuli_chr06	49219557	GG	AA	1946874739
SNP_P4_88042_49220284	NC_021165.1	Ca_kabuli_chr06	49220284	TT	CC	1946874741
SNP_P4_88043_49221067	NC_021165.1	Ca_kabuli_chr06	49221067	AA	GG	1946874743
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SNP_P4_88047_49222089	NC_021165.1	Ca_kabuli_chr06	49222089	AA	TT	1946874751
SNP_P4_88048_49222153	NC_021165.1	Ca_kabuli_chr06	49222153	CC	TT	1946874753
SNP_P4_88050_49222223	NC_021165.1	Ca_kabuli_chr06	49222223	TT	GG	1946874755
SNP_P4_88051_49222235	NC_021165.1	Ca_kabuli_chr06	49222235	GG	CC	1946874757
SNP_P4_88052_49222251	NC_021165.1	Ca_kabuli_chr06	49222251	GG	AA	1946874759
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SNP_P4_88055_49222290	NC_021165.1	Ca_kabuli_chr06	49222290	CC	TT	1946874765
SNP_P4_88056_49222291	NC_021165.1	Ca_kabuli_chr06	49222291	GG	AA	1946874767
SNP_P4_88057_49222384	NC_021165.1	Ca_kabuli_chr06	49222384	AA	CC	1946874769
SNP_P4_88058_49241539	NC_021165.1	Ca_kabuli_chr06	49241539	TT	CC	1946874771
SNP_P4_88059_49243197	NC_021165.1	Ca_kabuli_chr06	49243197	CC	TT	1946874773
SNP_P4_88060_49258844	NC_021165.1	Ca_kabuli_chr06	49258844	AA	CC	1946874775
SNP_P4_88061_49258982	NC_021165.1	Ca_kabuli_chr06	49258982	CC	TT	1946874777
SNP_P4_88062_49259009	NC_021165.1	Ca_kabuli_chr06	49259009	GG	AA	1946874779
SNP_P4_88063_49261949	NC_021165.1	Ca_kabuli_chr06	49261949	AA	GG	1946874781
SNP_P4_88064_49262223	NC_021165.1	Ca_kabuli_chr06	49262223	TT	CC	1946874783
SNP_P4_88065_49262267	NC_021165.1	Ca_kabuli_chr06	49262267	TT	CC	1946874785
SNP_P4_88066_49262359	NC_021165.1	Ca_kabuli_chr06	49262359	GG	AA	1946874787
SNP_P4_88067_49263267	NC_021165.1	Ca_kabuli_chr06	49263267	GG	AA	1946874789
SNP_P4_88068_49263344	NC_021165.1	Ca_kabuli_chr06	49263344	CC	AA	1946874791
SNP_P4_88069_49266758	NC_021165.1	Ca_kabuli_chr06	49266758	AA	CC	1946874793
SNP_P4_88070_49267051	NC_021165.1	Ca_kabuli_chr06	49267051	CC	TT	1946874796
SNP_P4_88071_49267067	NC_021165.1	Ca_kabuli_chr06	49267067	AA	TT	1946874798
SNP_P4_88072_49267123	NC_021165.1	Ca_kabuli_chr06	49267123	TT	GG	1946874800
SNP_P4_88073_49267536	NC_021165.1	Ca_kabuli_chr06	49267536	CC	TT	1946874802
SNP_P4_88074_49302494	NC_021165.1	Ca_kabuli_chr06	49302494	CC	TT	1946874804
SNP_P4_88075_49318258	NC_021165.1	Ca_kabuli_chr06	49318258	CC	TT	1946874806

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_88076_49318702	NC_021165.1	Ca_kabuli_chr06	49318702	GG	AA	1946874808
SNP_P4_88077_49319204	NC_021165.1	Ca_kabuli_chr06	49319204	CC	TT	1946874811
SNP_P4_88078_49319205	NC_021165.1	Ca_kabuli_chr06	49319205	CC	TT	1946874813
SNP_P4_88079_49319214	NC_021165.1	Ca_kabuli_chr06	49319214	CC	TT	1946874815
SNP_P4_88080_49324511	NC_021165.1	Ca_kabuli_chr06	49324511	GG	AA	1946874817
SNP_P4_88081_49376366	NC_021165.1	Ca_kabuli_chr06	49376366	CC	GG	1946874819
SNP_P4_88082_49377275	NC_021165.1	Ca_kabuli_chr06	49377275	GG	AA	1946874822
SNP_P4_88083_49433430	NC_021165.1	Ca_kabuli_chr06	49433430	GG	AA	1946874824
SNP_P4_88085_49438298	NC_021165.1	Ca_kabuli_chr06	49438298	GG	AA	1946874826
SNP_P4_88086_49438326	NC_021165.1	Ca_kabuli_chr06	49438326	AA	GG	1946874828
SNP_P4_88087_49438379	NC_021165.1	Ca_kabuli_chr06	49438379	TT	CC	1946874830
SNP_P4_88088_49438381	NC_021165.1	Ca_kabuli_chr06	49438381	AA	GG	1946874832
SNP_P4_88089_49463277	NC_021165.1	Ca_kabuli_chr06	49463277	AA	CC	1946874834
SNP_P4_88092_49567833	NC_021165.1	Ca_kabuli_chr06	49567833	AA	GG	1946874836
SNP_P4_88093_49572551	NC_021165.1	Ca_kabuli_chr06	49572551	AA	TT	1946874838
SNP_P4_88096_49628542	NC_021165.1	Ca_kabuli_chr06	49628542	AA	CC	1946874840
SNP_P4_88097_49628921	NC_021165.1	Ca_kabuli_chr06	49628921	TT	CC	1946874842
SNP_P4_88098_49629599	NC_021165.1	Ca_kabuli_chr06	49629599	TT	AA	1946874844
SNP_P4_88099_49629674	NC_021165.1	Ca_kabuli_chr06	49629674	AA	GG	1946874846
SNP_P4_88100_49629946	NC_021165.1	Ca_kabuli_chr06	49629946	AA	GG	1946874848
SNP_P4_88101_49629988	NC_021165.1	Ca_kabuli_chr06	49629988	TT	CC	1946874850
SNP_P4_88102_49629991	NC_021165.1	Ca_kabuli_chr06	49629991	AA	GG	1946874852
SNP_P4_88103_49644557	NC_021165.1	Ca_kabuli_chr06	49644557	AA	GG	1946874855
SNP_P4_88105_49693205	NC_021165.1	Ca_kabuli_chr06	49693205	TT	CC	1946874857
SNP_P4_88106_49707175	NC_021165.1	Ca_kabuli_chr06	49707175	GG	AA	1946874859
SNP_P4_88107_49727353	NC_021165.1	Ca_kabuli_chr06	49727353	GG	CC	1946874861
SNP_P4_88108_49727380	NC_021165.1	Ca_kabuli_chr06	49727380	TT	GG	1946874863
SNP_P4_88109_49727392	NC_021165.1	Ca_kabuli_chr06	49727392	TT	AA	1946874865
SNP_P4_88110_49727397	NC_021165.1	Ca_kabuli_chr06	49727397	GG	AA	1946874867
SNP_P4_88111_49727412	NC_021165.1	Ca_kabuli_chr06	49727412	GG	AA	1946874869
SNP_P4_88112_49727427	NC_021165.1	Ca_kabuli_chr06	49727427	AA	GG	1946874871
SNP_P4_88113_49727442	NC_021165.1	Ca_kabuli_chr06	49727442	TT	CC	1946874873
SNP_P4_88114_49727444	NC_021165.1	Ca_kabuli_chr06	49727444	TT	AA	1946874875
SNP_P4_88115_49727445	NC_021165.1	Ca_kabuli_chr06	49727445	AA	TT	1946874877
SNP_P4_88116_49727448	NC_021165.1	Ca_kabuli_chr06	49727448	AA	GG	1946874879
SNP_P4_88117_49727452	NC_021165.1	Ca_kabuli_chr06	49727452	TT	CC	1946874881
SNP_P4_88118_49727460	NC_021165.1	Ca_kabuli_chr06	49727460	AA	CC	1946874882
SNP_P4_88119_49727857	NC_021165.1	Ca_kabuli_chr06	49727857	CC	AA	1946874883
SNP_P4_88120_49727913	NC_021165.1	Ca_kabuli_chr06	49727913	GG	TT	1946874884
SNP_P4_88121_49727920	NC_021165.1	Ca_kabuli_chr06	49727920	AA	TT	1946874886
SNP_P4_88122_49727922	NC_021165.1	Ca_kabuli_chr06	49727922	GG	CC	1946874888
SNP_P4_88123_49727928	NC_021165.1	Ca_kabuli_chr06	49727928	AA	GG	1946874890

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_88125_49727962	NC_021165.1	Ca_kabuli_chr06	49727962	GG	TT	1946874894
SNP_P4_88126_49727963	NC_021165.1	Ca_kabuli_chr06	49727963	GG	TT	1946874896
SNP_P4_88127_49727968	NC_021165.1	Ca_kabuli_chr06	49727968	AA	GG	1946874898
SNP_P4_88128_49727979	NC_021165.1	Ca_kabuli_chr06	49727979	TT	GG	1946874900
SNP_P4_88129_49728123	NC_021165.1	Ca_kabuli_chr06	49728123	CC	AA	1946874902
SNP_P4_88130_49728136	NC_021165.1	Ca_kabuli_chr06	49728136	TT	CC	1946874904
SNP_P4_88131_49728139	NC_021165.1	Ca_kabuli_chr06	49728139	GG	CC	1946874906
SNP_P4_88132_49728150	NC_021165.1	Ca_kabuli_chr06	49728150	AA	GG	1946874908
SNP_P4_88133_49728215	NC_021165.1	Ca_kabuli_chr06	49728215	AA	GG	1946874910
SNP_P4_88134_49728235	NC_021165.1	Ca_kabuli_chr06	49728235	TT	AA	1946874912
SNP_P4_88135_49728480	NC_021165.1	Ca_kabuli_chr06	49728480	CC	TT	1946874914
SNP_P4_88136_49728496	NC_021165.1	Ca_kabuli_chr06	49728496	GG	AA	1946874916
SNP_P4_88137_49728764	NC_021165.1	Ca_kabuli_chr06	49728764	TT	AA	1946874918
SNP_P4_88138_49728765	NC_021165.1	Ca_kabuli_chr06	49728765	TT	CC	1946874920
SNP_P4_88139_49728777	NC_021165.1	Ca_kabuli_chr06	49728777	GG	CC	1946874922
SNP_P4_88142_49775198	NC_021165.1	Ca_kabuli_chr06	49775198	CC	TT	1946874924
SNP_P4_88143_49778895	NC_021165.1	Ca_kabuli_chr06	49778895	AA	CC	1946874926
SNP_P4_88144_49793786	NC_021165.1	Ca_kabuli_chr06	49793786	AA	TT	1946874928
SNP_P4_88145_49806012	NC_021165.1	Ca_kabuli_chr06	49806012	AA	CC	1946874930
SNP_P4_88146_49806057	NC_021165.1	Ca_kabuli_chr06	49806057	AA	GG	1946874932
SNP_P4_88147_49806063	NC_021165.1	Ca_kabuli_chr06	49806063	TT	CC	1946874934
SNP_P4_88148_49806425	NC_021165.1	Ca_kabuli_chr06	49806425	AA	GG	1946874936
SNP_P4_88149_49806447	NC_021165.1	Ca_kabuli_chr06	49806447	CC	AA	1946874938
SNP_P4_88150_49813093	NC_021165.1	Ca_kabuli_chr06	49813093	CC	TT	1946874940
SNP_P4_88151_49828341	NC_021165.1	Ca_kabuli_chr06	49828341	TT	AA	1946874942
SNP_P4_88152_49841921	NC_021165.1	Ca_kabuli_chr06	49841921	TT	AA	1946874944
SNP_P4_88153_49848847	NC_021165.1	Ca_kabuli_chr06	49848847	TT	AA	1946874946
SNP_P4_88155_49870650	NC_021165.1	Ca_kabuli_chr06	49870650	TT	CC	1946874948
SNP_P4_88156_49876075	NC_021165.1	Ca_kabuli_chr06	49876075	GG	CC	1946874950
SNP_P4_88157_49894427	NC_021165.1	Ca_kabuli_chr06	49894427	GG	AA	1946874952
SNP_P4_88158_49916899	NC_021165.1	Ca_kabuli_chr06	49916899	AA	CC	1946874954
SNP_P4_88159_49916901	NC_021165.1	Ca_kabuli_chr06	49916901	AA	CC	1946874956
SNP_P4_88161_49924684	NC_021165.1	Ca_kabuli_chr06	49924684	CC	AA	1946874958
SNP_P4_88162_49934172	NC_021165.1	Ca_kabuli_chr06	49934172	CC	GG	1946874960
SNP_P4_88163_49936008	NC_021165.1	Ca_kabuli_chr06	49936008	GG	AA	1946874962
SNP_P4_88164_49941024	NC_021165.1	Ca_kabuli_chr06	49941024	CC	GG	1946874964
SNP_P4_88165_49949271	NC_021165.1	Ca_kabuli_chr06	49949271	TT	CC	1946874966
SNP_P4_88166_49951222	NC_021165.1	Ca_kabuli_chr06	49951222	AA	GG	1946874968
SNP_P4_88167_49953922	NC_021165.1	Ca_kabuli_chr06	49953922	TT	GG	1946874970
SNP_P4_88168_49953943	NC_021165.1	Ca_kabuli_chr06	49953943	CC	AA	1946874972
SNP_P4_88169_49954082	NC_021165.1	Ca_kabuli_chr06	49954082	AA	GG	1946874974

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_88171_49998782	NC_021165.1	Ca_kabuli_chr06	49998782	TT	CC	1946874978
SNP_P4_88172_49998785	NC_021165.1	Ca_kabuli_chr06	49998785	GG	TT	1946874980
SNP_P4_88175_50002110	NC_021165.1	Ca_kabuli_chr06	50002110	CC	AA	1946874982
SNP_P4_88176_50002114	NC_021165.1	Ca_kabuli_chr06	50002114	AA	GG	1946874984
SNP_P4_88177_50002153	NC_021165.1	Ca_kabuli_chr06	50002153	CC	TT	1946874986
SNP_P4_88178_50014226	NC_021165.1	Ca_kabuli_chr06	50014226	CC	TT	1946874988
SNP_P4_88179_50023270	NC_021165.1	Ca_kabuli_chr06	50023270	GG	AA	1946874990
SNP_P4_88180_50038168	NC_021165.1	Ca_kabuli_chr06	50038168	GG	AA	1946874992
SNP_P4_88181_50038174	NC_021165.1	Ca_kabuli_chr06	50038174	TT	CC	1946874994
SNP_P4_88182_50041715	NC_021165.1	Ca_kabuli_chr06	50041715	GG	AA	1946874996
SNP_P4_88183_50044332	NC_021165.1	Ca_kabuli_chr06	50044332	CC	TT	1946874998
SNP_P4_88184_50105155	NC_021165.1	Ca_kabuli_chr06	50105155	TT	CC	1946875000
SNP_P4_88185_50123885	NC_021165.1	Ca_kabuli_chr06	50123885	AA	TT	1946875002
SNP_P4_88186_50131847	NC_021165.1	Ca_kabuli_chr06	50131847	GG	AA	1946875004
SNP_P4_88187_50148593	NC_021165.1	Ca_kabuli_chr06	50148593	TT	CC	1946875006
SNP_P4_88188_50149310	NC_021165.1	Ca_kabuli_chr06	50149310	GG	AA	1946875008
SNP_P4_88189_50153419	NC_021165.1	Ca_kabuli_chr06	50153419	GG	AA	1946875010
SNP_P4_88190_50157468	NC_021165.1	Ca_kabuli_chr06	50157468	CC	TT	1946875012
SNP_P4_88191_50162493	NC_021165.1	Ca_kabuli_chr06	50162493	TT	AA	1946875014
SNP_P4_88192_50162501	NC_021165.1	Ca_kabuli_chr06	50162501	CC	TT	1946875016
SNP_P4_88193_50162804	NC_021165.1	Ca_kabuli_chr06	50162804	AA	TT	1946875018
SNP_P4_88194_50162907	NC_021165.1	Ca_kabuli_chr06	50162907	CC	TT	1946875020
SNP_P4_88195_50162918	NC_021165.1	Ca_kabuli_chr06	50162918	CC	TT	1946875022
SNP_P4_88196_50162981	NC_021165.1	Ca_kabuli_chr06	50162981	TT	CC	1946875024
SNP_P4_88197_50163016	NC_021165.1	Ca_kabuli_chr06	50163016	CC	AA	1946875026
SNP_P4_88198_50185084	NC_021165.1	Ca_kabuli_chr06	50185084	TT	CC	1946875028
SNP_P4_88199_50185095	NC_021165.1	Ca_kabuli_chr06	50185095	TT	GG	1946875030
SNP_P4_88200_50185099	NC_021165.1	Ca_kabuli_chr06	50185099	CC	TT	1946875032
SNP_P4_88201_50185195	NC_021165.1	Ca_kabuli_chr06	50185195	AA	GG	1946875034
SNP_P4_88202_50185198	NC_021165.1	Ca_kabuli_chr06	50185198	TT	GG	1946875036
SNP_P4_88203_50185229	NC_021165.1	Ca_kabuli_chr06	50185229	AA	TT	1946875039
SNP_P4_88204_50215306	NC_021165.1	Ca_kabuli_chr06	50215306	TT	AA	1946875042
SNP_P4_88205_50215307	NC_021165.1	Ca_kabuli_chr06	50215307	TT	AA	1946875044
SNP_P4_88206_50237547	NC_021165.1	Ca_kabuli_chr06	50237547	GG	TT	1946875047
SNP_P4_88207_50240862	NC_021165.1	Ca_kabuli_chr06	50240862	GG	AA	1946875049
SNP_P4_88208_50260463	NC_021165.1	Ca_kabuli_chr06	50260463	TT	AA	1946875052
SNP_P4_88209_50276298	NC_021165.1	Ca_kabuli_chr06	50276298	TT	CC	1946875054
SNP_P4_88210_50295765	NC_021165.1	Ca_kabuli_chr06	50295765	AA	GG	1946875057
SNP_P4_88211_50296363	NC_021165.1	Ca_kabuli_chr06	50296363	CC	AA	1946875059
SNP_P4_88212_50296387	NC_021165.1	Ca_kabuli_chr06	50296387	GG	AA	1946875061
SNP_P4_88213_50300829	NC_021165.1	Ca_kabuli_chr06	50300829	GG	AA	1946875063

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_88215_50300877	NC_021165.1	Ca_kabuli_chr06	50300877	AA	GG	1946875067
SNP_P4_88216_50301286	NC_021165.1	Ca_kabuli_chr06	50301286	AA	GG	1946875069
SNP_P4_88217_50301302	NC_021165.1	Ca_kabuli_chr06	50301302	TT	CC	1946875071
SNP_P4_88218_50306321	NC_021165.1	Ca_kabuli_chr06	50306321	AA	GG	1946875073
SNP_P4_88219_50308486	NC_021165.1	Ca_kabuli_chr06	50308486	TT	CC	1946875075
SNP_P4_88220_50327912	NC_021165.1	Ca_kabuli_chr06	50327912	CC	AA	1946875077
SNP_P4_88221_50338228	NC_021165.1	Ca_kabuli_chr06	50338228	CC	TT	1946875079
SNP_P4_88222_50348386	NC_021165.1	Ca_kabuli_chr06	50348386	CC	AA	1946875081
SNP_P4_88224_50428699	NC_021165.1	Ca_kabuli_chr06	50428699	AA	GG	1946875083
SNP_P4_88225_50466116	NC_021165.1	Ca_kabuli_chr06	50466116	CC	TT	1946875085
SNP_P4_88227_50506640	NC_021165.1	Ca_kabuli_chr06	50506640	CC	TT	1946875087
SNP_P4_88228_50516062	NC_021165.1	Ca_kabuli_chr06	50516062	TT	AA	1946875089
SNP_P4_88230_50525420	NC_021165.1	Ca_kabuli_chr06	50525420	CC	TT	1946875091
SNP_P4_88232_50528892	NC_021165.1	Ca_kabuli_chr06	50528892	AA	TT	1946875093
SNP_P4_88233_50568117	NC_021165.1	Ca_kabuli_chr06	50568117	TT	CC	1946875095
SNP_P4_88234_50650096	NC_021165.1	Ca_kabuli_chr06	50650096	TT	GG	1946875097
SNP_P4_88235_50659206	NC_021165.1	Ca_kabuli_chr06	50659206	AA	TT	1946875099
SNP_P4_88236_50659378	NC_021165.1	Ca_kabuli_chr06	50659378	GG	AA	1946875101
SNP_P4_88237_50681175	NC_021165.1	Ca_kabuli_chr06	50681175	AA	TT	1946875103
SNP_P4_88238_50682232	NC_021165.1	Ca_kabuli_chr06	50682232	AA	TT	1946875105
SNP_P4_88239_50760995	NC_021165.1	Ca_kabuli_chr06	50760995	GG	AA	1946875107
SNP_P4_88240_50764834	NC_021165.1	Ca_kabuli_chr06	50764834	AA	CC	1946875109
SNP_P4_88241_50788287	NC_021165.1	Ca_kabuli_chr06	50788287	TT	GG	1946875111
SNP_P4_88242_50788308	NC_021165.1	Ca_kabuli_chr06	50788308	GG	AA	1946875113
SNP_P4_88243_50788341	NC_021165.1	Ca_kabuli_chr06	50788341	TT	CC	1946875115
SNP_P4_88244_50788416	NC_021165.1	Ca_kabuli_chr06	50788416	GG	TT	1946875117
SNP_P4_88245_50788684	NC_021165.1	Ca_kabuli_chr06	50788684	AA	GG	1946875119
SNP_P4_88246_50796792	NC_021165.1	Ca_kabuli_chr06	50796792	TT	CC	1946875121
SNP_P4_88247_50796797	NC_021165.1	Ca_kabuli_chr06	50796797	AA	GG	1946875123
SNP_P4_88248_50796818	NC_021165.1	Ca_kabuli_chr06	50796818	TT	CC	1946875125
SNP_P4_88249_50796833	NC_021165.1	Ca_kabuli_chr06	50796833	CC	TT	1946875127
SNP_P4_88250_50796883	NC_021165.1	Ca_kabuli_chr06	50796883	TT	CC	1946875129
SNP_P4_88252_50797048	NC_021165.1	Ca_kabuli_chr06	50797048	AA	GG	1946875131
SNP_P4_88253_50797051	NC_021165.1	Ca_kabuli_chr06	50797051	TT	GG	1946875133
SNP_P4_88254_50797117	NC_021165.1	Ca_kabuli_chr06	50797117	CC	TT	1946875135
SNP_P4_88255_50797170	NC_021165.1	Ca_kabuli_chr06	50797170	CC	TT	1946875137
SNP_P4_88256_50797176	NC_021165.1	Ca_kabuli_chr06	50797176	TT	CC	1946875139
SNP_P4_88257_50797191	NC_021165.1	Ca_kabuli_chr06	50797191	TT	GG	1946875141
SNP_P4_88258_50797326	NC_021165.1	Ca_kabuli_chr06	50797326	GG	AA	1946875143
SNP_P4_88259_50797365	NC_021165.1	Ca_kabuli_chr06	50797365	AA	GG	1946875145
SNP_P4_88260_50797480	NC_021165.1	Ca_kabuli_chr06	50797480	GG	AA	1946875147

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_88262_50797504	NC_021165.1	Ca_kabuli_chr06	50797504	TT	AA	1946875151
SNP_P4_88263_50797525	NC_021165.1	Ca_kabuli_chr06	50797525	GG	AA	1946875153
SNP_P4_88264_50797531	NC_021165.1	Ca_kabuli_chr06	50797531	CC	GG	1946875155
SNP_P4_88265_50797536	NC_021165.1	Ca_kabuli_chr06	50797536	CC	AA	1946875157
SNP_P4_88266_50797616	NC_021165.1	Ca_kabuli_chr06	50797616	CC	AA	1946875159
SNP_P4_88267_50797674	NC_021165.1	Ca_kabuli_chr06	50797674	CC	AA	1946875161
SNP_P4_88268_50797872	NC_021165.1	Ca_kabuli_chr06	50797872	TT	CC	1946875163
SNP_P4_88269_50797873	NC_021165.1	Ca_kabuli_chr06	50797873	GG	TT	1946875165
SNP_P4_88270_50797903	NC_021165.1	Ca_kabuli_chr06	50797903	TT	AA	1946875167
SNP_P4_88271_50797991	NC_021165.1	Ca_kabuli_chr06	50797991	TT	AA	1946875169
SNP_P4_88272_50798090	NC_021165.1	Ca_kabuli_chr06	50798090	GG	CC	1946875171
SNP_P4_88273_50798119	NC_021165.1	Ca_kabuli_chr06	50798119	CC	TT	1946875173
SNP_P4_88274_50798158	NC_021165.1	Ca_kabuli_chr06	50798158	CC	AA	1946875175
SNP_P4_88275_50798168	NC_021165.1	Ca_kabuli_chr06	50798168	AA	GG	1946875177
SNP_P4_88276_50798253	NC_021165.1	Ca_kabuli_chr06	50798253	TT	CC	1946875180
SNP_P4_88277_50798260	NC_021165.1	Ca_kabuli_chr06	50798260	AA	GG	1946875182
SNP_P4_88278_50798261	NC_021165.1	Ca_kabuli_chr06	50798261	AA	GG	1946875184
SNP_P4_88279_50798364	NC_021165.1	Ca_kabuli_chr06	50798364	CC	TT	1946875186
SNP_P4_88280_50799379	NC_021165.1	Ca_kabuli_chr06	50799379	CC	GG	1946875188
SNP_P4_88281_50799517	NC_021165.1	Ca_kabuli_chr06	50799517	AA	GG	1946875190
SNP_P4_88282_50799625	NC_021165.1	Ca_kabuli_chr06	50799625	AA	TT	1946875192
SNP_P4_88283_50799645	NC_021165.1	Ca_kabuli_chr06	50799645	CC	AA	1946875194
SNP_P4_88284_50799822	NC_021165.1	Ca_kabuli_chr06	50799822	GG	AA	1946875196
SNP_P4_88285_50818088	NC_021165.1	Ca_kabuli_chr06	50818088	AA	TT	1946875198
SNP_P4_88286_50818104	NC_021165.1	Ca_kabuli_chr06	50818104	AA	GG	1946875200
SNP_P4_88287_50828717	NC_021165.1	Ca_kabuli_chr06	50828717	GG	TT	1946875202
SNP_P4_88288_50829342	NC_021165.1	Ca_kabuli_chr06	50829342	AA	TT	1946875204
SNP_P4_88289_50829351	NC_021165.1	Ca_kabuli_chr06	50829351	TT	AA	1946875206
SNP_P4_88290_50830073	NC_021165.1	Ca_kabuli_chr06	50830073	AA	GG	1946875208
SNP_P4_88291_50830417	NC_021165.1	Ca_kabuli_chr06	50830417	AA	CC	1946875210
SNP_P4_88292_50830553	NC_021165.1	Ca_kabuli_chr06	50830553	CC	TT	1946875212
SNP_P4_88293_50835028	NC_021165.1	Ca_kabuli_chr06	50835028	TT	CC	1946875214
SNP_P4_88294_50848757	NC_021165.1	Ca_kabuli_chr06	50848757	AA	GG	1946875216
SNP_P4_88295_50854517	NC_021165.1	Ca_kabuli_chr06	50854517	AA	GG	1946875218
SNP_P4_88297_50930598	NC_021165.1	Ca_kabuli_chr06	50930598	AA	CC	1946875220
SNP_P4_88299_50952980	NC_021165.1	Ca_kabuli_chr06	50952980	CC	TT	1946875222
SNP_P4_88300_50954419	NC_021165.1	Ca_kabuli_chr06	50954419	AA	CC	1946875224
SNP_P4_88301_50954420	NC_021165.1	Ca_kabuli_chr06	50954420	CC	AA	1946875226
SNP_P4_88302_50954754	NC_021165.1	Ca_kabuli_chr06	50954754	TT	CC	1946875228
SNP_P4_88304_50977014	NC_021165.1	Ca_kabuli_chr06	50977014	TT	CC	1946875230
SNP_P4_88305_50977034	NC_021165.1	Ca_kabuli_chr06	50977034	TT	CC	1946875232

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_88307_50977168	NC_021165.1	Ca_kabuli_chr06	50977168	TT	AA	1946875236
SNP_P4_88308_50977186	NC_021165.1	Ca_kabuli_chr06	50977186	TT	CC	1946875238
SNP_P4_88309_50977263	NC_021165.1	Ca_kabuli_chr06	50977263	AA	CC	1946875240
SNP_P4_88310_50977269	NC_021165.1	Ca_kabuli_chr06	50977269	TT	CC	1946875242
SNP_P4_88311_50977340	NC_021165.1	Ca_kabuli_chr06	50977340	CC	TT	1946875244
SNP_P4_88312_50977360	NC_021165.1	Ca_kabuli_chr06	50977360	TT	GG	1946875246
SNP_P4_88313_50977467	NC_021165.1	Ca_kabuli_chr06	50977467	AA	GG	1946875248
SNP_P4_88315_50977528	NC_021165.1	Ca_kabuli_chr06	50977528	AA	GG	1946875250
SNP_P4_88316_51009261	NC_021165.1	Ca_kabuli_chr06	51009261	TT	AA	1946875252
SNP_P4_88317_51031237	NC_021165.1	Ca_kabuli_chr06	51031237	AA	CC	1946875254
SNP_P4_88318_51031241	NC_021165.1	Ca_kabuli_chr06	51031241	GG	TT	1946875256
SNP_P4_88319_51031593	NC_021165.1	Ca_kabuli_chr06	51031593	TT	CC	1946875258
SNP_P4_88321_51041992	NC_021165.1	Ca_kabuli_chr06	51041992	CC	TT	1946875260
SNP_P4_88322_51073566	NC_021165.1	Ca_kabuli_chr06	51073566	GG	AA	1946875262
SNP_P4_88323_51073823	NC_021165.1	Ca_kabuli_chr06	51073823	TT	CC	1946875265
SNP_P4_88324_51073853	NC_021165.1	Ca_kabuli_chr06	51073853	TT	AA	1946875267
SNP_P4_88325_51074754	NC_021165.1	Ca_kabuli_chr06	51074754	AA	CC	1946875269
SNP_P4_88326_51074777	NC_021165.1	Ca_kabuli_chr06	51074777	CC	GG	1946875271
SNP_P4_88327_51074784	NC_021165.1	Ca_kabuli_chr06	51074784	TT	CC	1946875273
SNP_P4_88328_51074799	NC_021165.1	Ca_kabuli_chr06	51074799	TT	CC	1946875275
SNP_P4_88329_51074803	NC_021165.1	Ca_kabuli_chr06	51074803	GG	CC	1946875277
SNP_P4_88330_51074805	NC_021165.1	Ca_kabuli_chr06	51074805	GG	TT	1946875279
SNP_P4_88331_51075513	NC_021165.1	Ca_kabuli_chr06	51075513	GG	CC	1946875281
SNP_P4_88332_51077681	NC_021165.1	Ca_kabuli_chr06	51077681	CC	TT	1946875283
SNP_P4_88333_51082486	NC_021165.1	Ca_kabuli_chr06	51082486	CC	TT	1946875285
SNP_P4_88334_51083158	NC_021165.1	Ca_kabuli_chr06	51083158	AA	GG	1946875287
SNP_P4_88335_51088246	NC_021165.1	Ca_kabuli_chr06	51088246	AA	GG	1946875289
SNP_P4_88337_51166459	NC_021165.1	Ca_kabuli_chr06	51166459	AA	GG	1946875291
SNP_P4_88338_51166479	NC_021165.1	Ca_kabuli_chr06	51166479	GG	AA	1946875293
SNP_P4_88339_51166484	NC_021165.1	Ca_kabuli_chr06	51166484	CC	AA	1946875295
SNP_P4_88340_51172958	NC_021165.1	Ca_kabuli_chr06	51172958	GG	AA	1946875296
SNP_P4_88341_51180753	NC_021165.1	Ca_kabuli_chr06	51180753	AA	CC	1946875298
SNP_P4_88342_51219779	NC_021165.1	Ca_kabuli_chr06	51219779	AA	GG	1946875300
SNP_P4_88343_51220151	NC_021165.1	Ca_kabuli_chr06	51220151	TT	GG	1946875302
SNP_P4_88344_51220209	NC_021165.1	Ca_kabuli_chr06	51220209	AA	GG	1946875304
SNP_P4_88345_51220269	NC_021165.1	Ca_kabuli_chr06	51220269	CC	TT	1946875306
SNP_P4_88346_51220334	NC_021165.1	Ca_kabuli_chr06	51220334	AA	GG	1946875308
SNP_P4_88347_51220384	NC_021165.1	Ca_kabuli_chr06	51220384	AA	TT	1946875310
SNP_P4_88348_51246075	NC_021165.1	Ca_kabuli_chr06	51246075	TT	CC	1946875312
SNP_P4_88349_51256721	NC_021165.1	Ca_kabuli_chr06	51256721	CC	TT	1946875314
SNP_P4_88350_51270062	NC_021165.1	Ca_kabuli_chr06	51270062	GG	AA	1946875316

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_88353_51321455	NC_021165.1	Ca_kabuli_chr06	51321455	CC	TT	1946875320
SNP_P4_88354_51324156	NC_021165.1	Ca_kabuli_chr06	51324156	AA	CC	1946875322
SNP_P4_88355_51324467	NC_021165.1	Ca_kabuli_chr06	51324467	TT	GG	1946875324
SNP_P4_88356_51324468	NC_021165.1	Ca_kabuli_chr06	51324468	AA	GG	1946875326
SNP_P4_88357_51329042	NC_021165.1	Ca_kabuli_chr06	51329042	GG	AA	1946875327
SNP_P4_88358_51347146	NC_021165.1	Ca_kabuli_chr06	51347146	GG	CC	1946875329
SNP_P4_88360_51356537	NC_021165.1	Ca_kabuli_chr06	51356537	TT	GG	1946875331
SNP_P4_88361_51357953	NC_021165.1	Ca_kabuli_chr06	51357953	TT	GG	1946875333
SNP_P4_88362_51358271	NC_021165.1	Ca_kabuli_chr06	51358271	CC	AA	1946875335
SNP_P4_88363_51358314	NC_021165.1	Ca_kabuli_chr06	51358314	CC	AA	1946875337
SNP_P4_88364_51391199	NC_021165.1	Ca_kabuli_chr06	51391199	GG	AA	1946875339
SNP_P4_88366_51396406	NC_021165.1	Ca_kabuli_chr06	51396406	CC	TT	1946875341
SNP_P4_88367_51397116	NC_021165.1	Ca_kabuli_chr06	51397116	TT	CC	1946875343
SNP_P4_88368_51397525	NC_021165.1	Ca_kabuli_chr06	51397525	AA	GG	1946875345
SNP_P4_88369_51397532	NC_021165.1	Ca_kabuli_chr06	51397532	AA	GG	1946875347
SNP_P4_88371_51434125	NC_021165.1	Ca_kabuli_chr06	51434125	TT	CC	1946875349
SNP_P4_88372_51435036	NC_021165.1	Ca_kabuli_chr06	51435036	CC	AA	1946875351
SNP_P4_88373_51435590	NC_021165.1	Ca_kabuli_chr06	51435590	AA	CC	1946875353
SNP_P4_88374_51435592	NC_021165.1	Ca_kabuli_chr06	51435592	AA	CC	1946875355
SNP_P4_88375_51441594	NC_021165.1	Ca_kabuli_chr06	51441594	GG	AA	1946875356
SNP_P4_88376_51441603	NC_021165.1	Ca_kabuli_chr06	51441603	CC	TT	1946875358
SNP_P4_88377_51444105	NC_021165.1	Ca_kabuli_chr06	51444105	TT	CC	1946875360
SNP_P4_88378_51444377	NC_021165.1	Ca_kabuli_chr06	51444377	CC	TT	1946875362
SNP_P4_88379_51444381	NC_021165.1	Ca_kabuli_chr06	51444381	AA	GG	1946875364
SNP_P4_88380_51444405	NC_021165.1	Ca_kabuli_chr06	51444405	TT	AA	1946875366
SNP_P4_88381_51444434	NC_021165.1	Ca_kabuli_chr06	51444434	AA	GG	1946875368
SNP_P4_88382_51444474	NC_021165.1	Ca_kabuli_chr06	51444474	TT	AA	1946875370
SNP_P4_88383_51444475	NC_021165.1	Ca_kabuli_chr06	51444475	AA	CC	1946875372
SNP_P4_88384_51444476	NC_021165.1	Ca_kabuli_chr06	51444476	TT	CC	1946875374
SNP_P4_88385_51444477	NC_021165.1	Ca_kabuli_chr06	51444477	TT	CC	1946875376
SNP_P4_88386_51444478	NC_021165.1	Ca_kabuli_chr06	51444478	TT	CC	1946875378
SNP_P4_88387_51444493	NC_021165.1	Ca_kabuli_chr06	51444493	GG	AA	1946875380
SNP_P4_88388_51444577	NC_021165.1	Ca_kabuli_chr06	51444577	CC	GG	1946875382
SNP_P4_88389_51444608	NC_021165.1	Ca_kabuli_chr06	51444608	AA	CC	1946875384
SNP_P4_88390_51444626	NC_021165.1	Ca_kabuli_chr06	51444626	TT	CC	1946875386
SNP_P4_88391_51449022	NC_021165.1	Ca_kabuli_chr06	51449022	CC	TT	1946875387
SNP_P4_88392_51450169	NC_021165.1	Ca_kabuli_chr06	51450169	TT	CC	1946875389
SNP_P4_88394_51482593	NC_021165.1	Ca_kabuli_chr06	51482593	CC	TT	1946875391
SNP_P4_88396_51482640	NC_021165.1	Ca_kabuli_chr06	51482640	AA	CC	1946875393
SNP_P4_88397_51483056	NC_021165.1	Ca_kabuli_chr06	51483056	TT	AA	1946875395
SNP_P4_88398_51486469	NC_021165.1	Ca_kabuli_chr06	51486469	AA	GG	1946875397

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_88402_51506574	NC_021165.1	Ca_kabuli_chr06	51506574	CC	AA	1946875401
SNP_P4_88403_51506612	NC_021165.1	Ca_kabuli_chr06	51506612	AA	GG	1946875403
SNP_P4_88404_51506743	NC_021165.1	Ca_kabuli_chr06	51506743	CC	AA	1946875405
SNP_P4_88405_51506777	NC_021165.1	Ca_kabuli_chr06	51506777	TT	AA	1946875407
SNP_P4_88406_51506858	NC_021165.1	Ca_kabuli_chr06	51506858	AA	GG	1946875409
SNP_P4_88407_51533765	NC_021165.1	Ca_kabuli_chr06	51533765	TT	CC	1946875411
SNP_P4_88408_51533782	NC_021165.1	Ca_kabuli_chr06	51533782	CC	AA	1946875413
SNP_P4_88409_51533797	NC_021165.1	Ca_kabuli_chr06	51533797	GG	AA	1946875415
SNP_P4_88410_51537047	NC_021165.1	Ca_kabuli_chr06	51537047	TT	CC	1946875417
SNP_P4_88411_51563747	NC_021165.1	Ca_kabuli_chr06	51563747	TT	GG	1946875419
SNP_P4_88412_51588814	NC_021165.1	Ca_kabuli_chr06	51588814	TT	CC	1946875421
SNP_P4_88413_51588888	NC_021165.1	Ca_kabuli_chr06	51588888	AA	GG	1946875423
SNP_P4_88414_51593678	NC_021165.1	Ca_kabuli_chr06	51593678	CC	AA	1946875425
SNP_P4_88415_51617449	NC_021165.1	Ca_kabuli_chr06	51617449	TT	CC	1946875427
SNP_P4_88416_51617681	NC_021165.1	Ca_kabuli_chr06	51617681	TT	AA	1946875429
SNP_P4_88417_51620145	NC_021165.1	Ca_kabuli_chr06	51620145	CC	AA	1946875431
SNP_P4_88418_51620670	NC_021165.1	Ca_kabuli_chr06	51620670	TT	GG	1946875433
SNP_P4_88419_51671986	NC_021165.1	Ca_kabuli_chr06	51671986	GG	AA	1946875435
SNP_P4_88420_51672042	NC_021165.1	Ca_kabuli_chr06	51672042	CC	TT	1946875437
SNP_P4_88421_51672074	NC_021165.1	Ca_kabuli_chr06	51672074	AA	CC	1946875439
SNP_P4_88422_51673257	NC_021165.1	Ca_kabuli_chr06	51673257	AA	GG	1946875441
SNP_P4_88423_51673379	NC_021165.1	Ca_kabuli_chr06	51673379	GG	AA	1946875443
SNP_P4_88424_51673404	NC_021165.1	Ca_kabuli_chr06	51673404	TT	AA	1946875445
SNP_P4_88425_51675181	NC_021165.1	Ca_kabuli_chr06	51675181	TT	CC	1946875447
SNP_P4_88426_51675188	NC_021165.1	Ca_kabuli_chr06	51675188	CC	GG	1946875449
SNP_P4_88427_51675205	NC_021165.1	Ca_kabuli_chr06	51675205	CC	AA	1946875450
SNP_P4_88428_51675262	NC_021165.1	Ca_kabuli_chr06	51675262	GG	AA	1946875452
SNP_P4_88429_51675562	NC_021165.1	Ca_kabuli_chr06	51675562	TT	CC	1946875454
SNP_P4_88430_51675577	NC_021165.1	Ca_kabuli_chr06	51675577	GG	AA	1946875456
SNP_P4_88431_51675595	NC_021165.1	Ca_kabuli_chr06	51675595	AA	GG	1946875458
SNP_P4_88432_51678031	NC_021165.1	Ca_kabuli_chr06	51678031	TT	CC	1946875460
SNP_P4_88433_51678932	NC_021165.1	Ca_kabuli_chr06	51678932	AA	CC	1946875462
SNP_P4_88434_51678939	NC_021165.1	Ca_kabuli_chr06	51678939	AA	TT	1946875464
SNP_P4_88435_51679191	NC_021165.1	Ca_kabuli_chr06	51679191	TT	CC	1946875466
SNP_P4_88436_51679239	NC_021165.1	Ca_kabuli_chr06	51679239	AA	GG	1946875468
SNP_P4_88437_51700841	NC_021165.1	Ca_kabuli_chr06	51700841	AA	TT	1946875470
SNP_P4_88438_51700901	NC_021165.1	Ca_kabuli_chr06	51700901	AA	CC	1946875472
SNP_P4_88439_51725706	NC_021165.1	Ca_kabuli_chr06	51725706	TT	CC	1946875474
SNP_P4_88440_51737260	NC_021165.1	Ca_kabuli_chr06	51737260	CC	AA	1946875476
SNP_P4_88441_51737325	NC_021165.1	Ca_kabuli_chr06	51737325	GG	AA	1946875478
SNP_P4_88442_51737707	NC_021165.1	Ca_kabuli_chr06	51737707	TT	CC	1946875480

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_88445_51764411	NC_021165.1	Ca_kabuli_chr06	51764411	AA	GG	1946875484
SNP_P4_88446_51767433	NC_021165.1	Ca_kabuli_chr06	51767433	AA	GG	1946875486
SNP_P4_88447_51767471	NC_021165.1	Ca_kabuli_chr06	51767471	AA	CC	1946875487
SNP_P4_88448_51767512	NC_021165.1	Ca_kabuli_chr06	51767512	AA	CC	1946875489
SNP_P4_88449_51767671	NC_021165.1	Ca_kabuli_chr06	51767671	CC	TT	1946875491
SNP_P4_88450_51767876	NC_021165.1	Ca_kabuli_chr06	51767876	TT	GG	1946875493
SNP_P4_88451_51767889	NC_021165.1	Ca_kabuli_chr06	51767889	AA	GG	1946875495
SNP_P4_88452_51767902	NC_021165.1	Ca_kabuli_chr06	51767902	AA	CC	1946875497
SNP_P4_88453_51767924	NC_021165.1	Ca_kabuli_chr06	51767924	TT	GG	1946875499
SNP_P4_88454_51768028	NC_021165.1	Ca_kabuli_chr06	51768028	GG	AA	1946875501
SNP_P4_88455_51768069	NC_021165.1	Ca_kabuli_chr06	51768069	TT	GG	1946875503
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SNP_P4_88457_51770263	NC_021165.1	Ca_kabuli_chr06	51770263	GG	AA	1946875507
SNP_P4_88458_51770311	NC_021165.1	Ca_kabuli_chr06	51770311	TT	CC	1946875509
SNP_P4_88459_51770358	NC_021165.1	Ca_kabuli_chr06	51770358	AA	CC	1946875511
SNP_P4_88460_51770385	NC_021165.1	Ca_kabuli_chr06	51770385	CC	TT	1946875513
SNP_P4_88461_51770577	NC_021165.1	Ca_kabuli_chr06	51770577	GG	AA	1946875515
SNP_P4_88462_51771227	NC_021165.1	Ca_kabuli_chr06	51771227	AA	TT	1946875517
SNP_P4_88463_51771228	NC_021165.1	Ca_kabuli_chr06	51771228	AA	CC	1946875519
SNP_P4_88464_51771266	NC_021165.1	Ca_kabuli_chr06	51771266	TT	CC	1946875521
SNP_P4_88465_51771278	NC_021165.1	Ca_kabuli_chr06	51771278	AA	CC	1946875523
SNP_P4_88466_51771291	NC_021165.1	Ca_kabuli_chr06	51771291	TT	CC	1946875525
SNP_P4_88467_51771534	NC_021165.1	Ca_kabuli_chr06	51771534	AA	CC	1946875527
SNP_P4_88468_51772169	NC_021165.1	Ca_kabuli_chr06	51772169	TT	AA	1946875529
SNP_P4_88470_51772820	NC_021165.1	Ca_kabuli_chr06	51772820	AA	GG	1946875531
SNP_P4_88472_51772898	NC_021165.1	Ca_kabuli_chr06	51772898	AA	TT	1946875533
SNP_P4_88473_51773194	NC_021165.1	Ca_kabuli_chr06	51773194	AA	GG	1946875536
SNP_P4_88474_51775827	NC_021165.1	Ca_kabuli_chr06	51775827	CC	TT	1946875538
SNP_P4_88476_51775941	NC_021165.1	Ca_kabuli_chr06	51775941	TT	CC	1946875540
SNP_P4_88477_51776063	NC_021165.1	Ca_kabuli_chr06	51776063	AA	TT	1946875542
SNP_P4_88479_51791817	NC_021165.1	Ca_kabuli_chr06	51791817	TT	CC	1946875544
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SNP_P4_88481_51801813	NC_021165.1	Ca_kabuli_chr06	51801813	CC	AA	1946875548
SNP_P4_88482_51802102	NC_021165.1	Ca_kabuli_chr06	51802102	CC	GG	1946875550
SNP_P4_88483_51806309	NC_021165.1	Ca_kabuli_chr06	51806309	AA	GG	1946875552
SNP_P4_88485_51824441	NC_021165.1	Ca_kabuli_chr06	51824441	AA	TT	1946875554
SNP_P4_88486_51828472	NC_021165.1	Ca_kabuli_chr06	51828472	GG	AA	1946875556
SNP_P4_88487_51828966	NC_021165.1	Ca_kabuli_chr06	51828966	GG	CC	1946875558
SNP_P4_88488_51829013	NC_021165.1	Ca_kabuli_chr06	51829013	AA	GG	1946875560
SNP_P4_88489_51829235	NC_021165.1	Ca_kabuli_chr06	51829235	AA	CC	1946875562
SNP_P4_88490_51829254	NC_021165.1	Ca_kabuli_chr06	51829254	TT	CC	1946875564

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_88492_51830304	NC_021165.1	Ca_kabuli_chr06	51830304	AA	GG	1946875568
SNP_P4_88493_51846196	NC_021165.1	Ca_kabuli_chr06	51846196	TT	GG	1946875570
SNP_P4_88494_51846208	NC_021165.1	Ca_kabuli_chr06	51846208	GG	AA	1946875572
SNP_P4_88495_51846209	NC_021165.1	Ca_kabuli_chr06	51846209	TT	CC	1946875574
SNP_P4_88496_51867059	NC_021165.1	Ca_kabuli_chr06	51867059	AA	GG	1946875576
SNP_P4_88497_51867086	NC_021165.1	Ca_kabuli_chr06	51867086	TT	AA	1946875577
SNP_P4_88498_51880356	NC_021165.1	Ca_kabuli_chr06	51880356	TT	CC	1946875579
SNP_P4_88499_51880675	NC_021165.1	Ca_kabuli_chr06	51880675	AA	GG	1946875581
SNP_P4_88500_51895388	NC_021165.1	Ca_kabuli_chr06	51895388	AA	TT	1946875583
SNP_P4_88501_51895403	NC_021165.1	Ca_kabuli_chr06	51895403	GG	TT	1946875585
SNP_P4_88502_51906437	NC_021165.1	Ca_kabuli_chr06	51906437	AA	GG	1946875587
SNP_P4_88503_51906592	NC_021165.1	Ca_kabuli_chr06	51906592	AA	GG	1946875589
SNP_P4_88504_51922233	NC_021165.1	Ca_kabuli_chr06	51922233	AA	CC	1946875591
SNP_P4_88505_51933667	NC_021165.1	Ca_kabuli_chr06	51933667	AA	GG	1946875593
SNP_P4_88506_51934146	NC_021165.1	Ca_kabuli_chr06	51934146	AA	GG	1946875595
SNP_P4_88507_51934154	NC_021165.1	Ca_kabuli_chr06	51934154	GG	AA	1946875597
SNP_P4_88508_51949439	NC_021165.1	Ca_kabuli_chr06	51949439	TT	CC	1946875599
SNP_P4_88509_51954845	NC_021165.1	Ca_kabuli_chr06	51954845	CC	TT	1946875601
SNP_P4_88510_51955243	NC_021165.1	Ca_kabuli_chr06	51955243	AA	CC	1946875603
SNP_P4_88511_51959760	NC_021165.1	Ca_kabuli_chr06	51959760	TT	CC	1946875605
SNP_P4_88513_51982989	NC_021165.1	Ca_kabuli_chr06	51982989	TT	AA	1946875607
SNP_P4_88514_52003659	NC_021165.1	Ca_kabuli_chr06	52003659	GG	AA	1946875609
SNP_P4_88515_52003768	NC_021165.1	Ca_kabuli_chr06	52003768	TT	AA	1946875611
SNP_P4_88516_52008922	NC_021165.1	Ca_kabuli_chr06	52008922	AA	TT	1946875613
SNP_P4_88517_52008929	NC_021165.1	Ca_kabuli_chr06	52008929	CC	TT	1946875615
SNP_P4_88518_52009059	NC_021165.1	Ca_kabuli_chr06	52009059	GG	AA	1946875617
SNP_P4_88519_52041719	NC_021165.1	Ca_kabuli_chr06	52041719	GG	TT	1946875619
SNP_P4_88520_52074912	NC_021165.1	Ca_kabuli_chr06	52074912	AA	CC	1946875621
SNP_P4_88521_52075027	NC_021165.1	Ca_kabuli_chr06	52075027	TT	AA	1946875623
SNP_P4_88523_52075115	NC_021165.1	Ca_kabuli_chr06	52075115	TT	CC	1946875625
SNP_P4_88524_52075165	NC_021165.1	Ca_kabuli_chr06	52075165	TT	CC	1946875627
SNP_P4_88525_52075334	NC_021165.1	Ca_kabuli_chr06	52075334	CC	TT	1946875629
SNP_P4_88526_52086792	NC_021165.1	Ca_kabuli_chr06	52086792	GG	AA	1946875631
SNP_P4_88527_52086882	NC_021165.1	Ca_kabuli_chr06	52086882	GG	TT	1946875633
SNP_P4_88529_52087910	NC_021165.1	Ca_kabuli_chr06	52087910	CC	GG	1946875635
SNP_P4_88530_52088095	NC_021165.1	Ca_kabuli_chr06	52088095	GG	CC	1946875637
SNP_P4_88531_52088185	NC_021165.1	Ca_kabuli_chr06	52088185	AA	CC	1946875638
SNP_P4_88532_52088350	NC_021165.1	Ca_kabuli_chr06	52088350	TT	CC	1946875640
SNP_P4_88533_52088388	NC_021165.1	Ca_kabuli_chr06	52088388	AA	TT	1946875642
SNP_P4_88534_52088720	NC_021165.1	Ca_kabuli_chr06	52088720	TT	GG	1946875644
SNP_P4_88535_52088832	NC_021165.1	Ca_kabuli_chr06	52088832	AA	GG	1946875646

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_88537_52088933	NC_021165.1	Ca_kabuli_chr06	52088933	GG	TT	1946875650
SNP_P4_88538_52088934	NC_021165.1	Ca_kabuli_chr06	52088934	GG	TT	1946875652
SNP_P4_88539_52088939	NC_021165.1	Ca_kabuli_chr06	52088939	AA	CC	1946875654
SNP_P4_88540_52088940	NC_021165.1	Ca_kabuli_chr06	52088940	GG	AA	1946875656
SNP_P4_88541_52088943	NC_021165.1	Ca_kabuli_chr06	52088943	GG	CC	1946875658
SNP_P4_88542_52088948	NC_021165.1	Ca_kabuli_chr06	52088948	TT	AA	1946875660
SNP_P4_88543_52088949	NC_021165.1	Ca_kabuli_chr06	52088949	TT	GG	1946875662
SNP_P4_88544_52088952	NC_021165.1	Ca_kabuli_chr06	52088952	AA	GG	1946875664
SNP_P4_88545_52088955	NC_021165.1	Ca_kabuli_chr06	52088955	GG	CC	1946875666
SNP_P4_88546_52089071	NC_021165.1	Ca_kabuli_chr06	52089071	TT	AA	1946875668
SNP_P4_88547_52089097	NC_021165.1	Ca_kabuli_chr06	52089097	CC	GG	1946875670
SNP_P4_88548_52089098	NC_021165.1	Ca_kabuli_chr06	52089098	AA	GG	1946875672
SNP_P4_88549_52089100	NC_021165.1	Ca_kabuli_chr06	52089100	AA	CC	1946875674
SNP_P4_88550_52089109	NC_021165.1	Ca_kabuli_chr06	52089109	GG	AA	1946875676
SNP_P4_88551_52089111	NC_021165.1	Ca_kabuli_chr06	52089111	TT	GG	1946875678
SNP_P4_88552_52089118	NC_021165.1	Ca_kabuli_chr06	52089118	TT	AA	1946875680
SNP_P4_88553_52089121	NC_021165.1	Ca_kabuli_chr06	52089121	TT	CC	1946875682
SNP_P4_88554_52089122	NC_021165.1	Ca_kabuli_chr06	52089122	AA	GG	1946875684
SNP_P4_88555_52089152	NC_021165.1	Ca_kabuli_chr06	52089152	TT	AA	1946875686
SNP_P4_88556_52089273	NC_021165.1	Ca_kabuli_chr06	52089273	AA	CC	1946875688
SNP_P4_88557_52089316	NC_021165.1	Ca_kabuli_chr06	52089316	AA	GG	1946875690
SNP_P4_88558_52089339	NC_021165.1	Ca_kabuli_chr06	52089339	CC	GG	1946875692
SNP_P4_88559_52089344	NC_021165.1	Ca_kabuli_chr06	52089344	CC	TT	1946875694
SNP_P4_88560_52089428	NC_021165.1	Ca_kabuli_chr06	52089428	GG	AA	1946875695
SNP_P4_88561_52089448	NC_021165.1	Ca_kabuli_chr06	52089448	TT	CC	1946875696
SNP_P4_88562_52089474	NC_021165.1	Ca_kabuli_chr06	52089474	GG	TT	1946875697
SNP_P4_88563_52089605	NC_021165.1	Ca_kabuli_chr06	52089605	AA	TT	1946875698
SNP_P4_88564_52089619	NC_021165.1	Ca_kabuli_chr06	52089619	TT	AA	1946875699
SNP_P4_88565_52089647	NC_021165.1	Ca_kabuli_chr06	52089647	AA	TT	1946875700
SNP_P4_88566_52089653	NC_021165.1	Ca_kabuli_chr06	52089653	AA	GG	1946875701
SNP_P4_88567_52089711	NC_021165.1	Ca_kabuli_chr06	52089711	TT	CC	1946875702
SNP_P4_88568_52089739	NC_021165.1	Ca_kabuli_chr06	52089739	CC	TT	1946875703
SNP_P4_88569_52089757	NC_021165.1	Ca_kabuli_chr06	52089757	TT	AA	1946875704
SNP_P4_88570_52090004	NC_021165.1	Ca_kabuli_chr06	52090004	TT	CC	1946875705
SNP_P4_88571_52090058	NC_021165.1	Ca_kabuli_chr06	52090058	AA	TT	1946875706
SNP_P4_88572_52090060	NC_021165.1	Ca_kabuli_chr06	52090060	CC	TT	1946875708
SNP_P4_88573_52093489	NC_021165.1	Ca_kabuli_chr06	52093489	CC	GG	1946875710
SNP_P4_88574_52093491	NC_021165.1	Ca_kabuli_chr06	52093491	TT	CC	1946875712
SNP_P4_88575_52093498	NC_021165.1	Ca_kabuli_chr06	52093498	AA	GG	1946875714
SNP_P4_88576_52093552	NC_021165.1	Ca_kabuli_chr06	52093552	CC	AA	1946875716
SNP_P4_88577_52093800	NC_021165.1	Ca_kabuli_chr06	52093800	AA	GG	1946875718

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_88579_52093816	NC_021165.1	Ca_kabuli_chr06	52093816	CC	TT	1946875722
SNP_P4_88581_52107585	NC_021165.1	Ca_kabuli_chr06	52107585	CC	GG	1946875724
SNP_P4_88582_52107590	NC_021165.1	Ca_kabuli_chr06	52107590	GG	CC	1946875726
SNP_P4_88583_52107606	NC_021165.1	Ca_kabuli_chr06	52107606	TT	CC	1946875728
SNP_P4_88584_52118422	NC_021165.1	Ca_kabuli_chr06	52118422	GG	AA	1946875730
SNP_P4_88585_52120312	NC_021165.1	Ca_kabuli_chr06	52120312	AA	CC	1946875732
SNP_P4_88586_52120442	NC_021165.1	Ca_kabuli_chr06	52120442	CC	GG	1946875734
SNP_P4_88587_52120478	NC_021165.1	Ca_kabuli_chr06	52120478	TT	CC	1946875736
SNP_P4_88588_52120483	NC_021165.1	Ca_kabuli_chr06	52120483	CC	AA	1946875738
SNP_P4_88589_52120508	NC_021165.1	Ca_kabuli_chr06	52120508	AA	CC	1946875740
SNP_P4_88590_52120587	NC_021165.1	Ca_kabuli_chr06	52120587	CC	AA	1946875742
SNP_P4_88591_52120625	NC_021165.1	Ca_kabuli_chr06	52120625	TT	AA	1946875744
SNP_P4_88592_52120664	NC_021165.1	Ca_kabuli_chr06	52120664	CC	TT	1946875746
SNP_P4_88593_52120678	NC_021165.1	Ca_kabuli_chr06	52120678	TT	CC	1946875748
SNP_P4_88594_52120739	NC_021165.1	Ca_kabuli_chr06	52120739	AA	TT	1946875750
SNP_P4_88595_52120757	NC_021165.1	Ca_kabuli_chr06	52120757	AA	GG	1946875752
SNP_P4_88596_52122024	NC_021165.1	Ca_kabuli_chr06	52122024	CC	GG	1946875754
SNP_P4_88597_52122046	NC_021165.1	Ca_kabuli_chr06	52122046	TT	CC	1946875756
SNP_P4_88598_52122069	NC_021165.1	Ca_kabuli_chr06	52122069	TT	GG	1946875758
SNP_P4_88599_52124940	NC_021165.1	Ca_kabuli_chr06	52124940	GG	TT	1946875760
SNP_P4_88600_52125066	NC_021165.1	Ca_kabuli_chr06	52125066	GG	AA	1946875762
SNP_P4_88601_52125120	NC_021165.1	Ca_kabuli_chr06	52125120	GG	AA	1946875764
SNP_P4_88602_52125392	NC_021165.1	Ca_kabuli_chr06	52125392	TT	CC	1946875766
SNP_P4_88603_52125456	NC_021165.1	Ca_kabuli_chr06	52125456	CC	GG	1946875768
SNP_P4_88604_52126344	NC_021165.1	Ca_kabuli_chr06	52126344	TT	CC	1946875770
SNP_P4_88605_52138762	NC_021165.1	Ca_kabuli_chr06	52138762	AA	GG	1946875771
SNP_P4_88606_52150477	NC_021165.1	Ca_kabuli_chr06	52150477	GG	AA	1946875773
SNP_P4_88607_52176793	NC_021165.1	Ca_kabuli_chr06	52176793	GG	AA	1946875775
SNP_P4_88608_52220240	NC_021165.1	Ca_kabuli_chr06	52220240	TT	AA	1946875777
SNP_P4_88609_52240243	NC_021165.1	Ca_kabuli_chr06	52240243	CC	TT	1946875779
SNP_P4_88610_52248297	NC_021165.1	Ca_kabuli_chr06	52248297	AA	GG	1946875781
SNP_P4_88611_52250877	NC_021165.1	Ca_kabuli_chr06	52250877	GG	AA	1946875783
SNP_P4_88612_52250931	NC_021165.1	Ca_kabuli_chr06	52250931	TT	CC	1946875785
SNP_P4_88613_52251192	NC_021165.1	Ca_kabuli_chr06	52251192	AA	CC	1946875787
SNP_P4_88614_52251202	NC_021165.1	Ca_kabuli_chr06	52251202	AA	GG	1946875789
SNP_P4_88615_52251278	NC_021165.1	Ca_kabuli_chr06	52251278	GG	CC	1946875791
SNP_P4_88616_52251296	NC_021165.1	Ca_kabuli_chr06	52251296	GG	AA	1946875793
SNP_P4_88617_52267676	NC_021165.1	Ca_kabuli_chr06	52267676	AA	GG	1946875795
SNP_P4_88618_52267711	NC_021165.1	Ca_kabuli_chr06	52267711	TT	CC	1946875797
SNP_P4_88619_52267742	NC_021165.1	Ca_kabuli_chr06	52267742	GG	AA	1946875799
SNP_P4_88620_52267776	NC_021165.1	Ca_kabuli_chr06	52267776	GG	CC	1946875800

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_88622_52267809	NC_021165.1	Ca_kabuli_chr06	52267809	TT	CC	1946875804
SNP_P4_88623_52267839	NC_021165.1	Ca_kabuli_chr06	52267839	TT	CC	1946875806
SNP_P4_88624_52267902	NC_021165.1	Ca_kabuli_chr06	52267902	TT	AA	1946875808
SNP_P4_88625_52268002	NC_021165.1	Ca_kabuli_chr06	52268002	GG	AA	1946875810
SNP_P4_88626_52268005	NC_021165.1	Ca_kabuli_chr06	52268005	AA	TT	1946875812
SNP_P4_88627_52269381	NC_021165.1	Ca_kabuli_chr06	52269381	CC	GG	1946875814
SNP_P4_88628_52273089	NC_021165.1	Ca_kabuli_chr06	52273089	TT	AA	1946875816
SNP_P4_88629_52273091	NC_021165.1	Ca_kabuli_chr06	52273091	AA	TT	1946875818
SNP_P4_88630_52290301	NC_021165.1	Ca_kabuli_chr06	52290301	AA	TT	1946875820
SNP_P4_88631_52290303	NC_021165.1	Ca_kabuli_chr06	52290303	CC	TT	1946875822
SNP_P4_88633_52363976	NC_021165.1	Ca_kabuli_chr06	52363976	TT	AA	1946875824
SNP_P4_88634_52375738	NC_021165.1	Ca_kabuli_chr06	52375738	TT	CC	1946875825
SNP_P4_88635_52411975	NC_021165.1	Ca_kabuli_chr06	52411975	AA	GG	1946875827
SNP_P4_88636_52417636	NC_021165.1	Ca_kabuli_chr06	52417636	TT	CC	1946875829
SNP_P4_88637_52426832	NC_021165.1	Ca_kabuli_chr06	52426832	TT	CC	1946875831
SNP_P4_88638_52457808	NC_021165.1	Ca_kabuli_chr06	52457808	TT	GG	1946875833
SNP_P4_88639_52478181	NC_021165.1	Ca_kabuli_chr06	52478181	GG	TT	1946875835
SNP_P4_88641_52486155	NC_021165.1	Ca_kabuli_chr06	52486155	AA	GG	1946875837
SNP_P4_88642_52486171	NC_021165.1	Ca_kabuli_chr06	52486171	TT	CC	1946875839
SNP_P4_88643_52486300	NC_021165.1	Ca_kabuli_chr06	52486300	TT	CC	1946875841
SNP_P4_88644_52486358	NC_021165.1	Ca_kabuli_chr06	52486358	TT	CC	1946875843
SNP_P4_88645_52486378	NC_021165.1	Ca_kabuli_chr06	52486378	GG	TT	1946875844
SNP_P4_88648_52529891	NC_021165.1	Ca_kabuli_chr06	52529891	GG	AA	1946875846
SNP_P4_88649_52530187	NC_021165.1	Ca_kabuli_chr06	52530187	TT	CC	1946875848
SNP_P4_88650_52530191	NC_021165.1	Ca_kabuli_chr06	52530191	CC	TT	1946875850
SNP_P4_88651_52531294	NC_021165.1	Ca_kabuli_chr06	52531294	AA	TT	1946875852
SNP_P4_88652_52552823	NC_021165.1	Ca_kabuli_chr06	52552823	AA	TT	1946875854
SNP_P4_88653_52594928	NC_021165.1	Ca_kabuli_chr06	52594928	TT	GG	1946875856
SNP_P4_88654_52608769	NC_021165.1	Ca_kabuli_chr06	52608769	CC	AA	1946875858
SNP_P4_88655_52610067	NC_021165.1	Ca_kabuli_chr06	52610067	TT	GG	1946875860
SNP_P4_88656_52644961	NC_021165.1	Ca_kabuli_chr06	52644961	CC	AA	1946875862
SNP_P4_88657_52648829	NC_021165.1	Ca_kabuli_chr06	52648829	TT	CC	1946875864
SNP_P4_88659_52662394	NC_021165.1	Ca_kabuli_chr06	52662394	AA	TT	1946875866
SNP_P4_88660_52676714	NC_021165.1	Ca_kabuli_chr06	52676714	GG	AA	1946875867
SNP_P4_88661_52696183	NC_021165.1	Ca_kabuli_chr06	52696183	AA	TT	1946875869
SNP_P4_88662_52697062	NC_021165.1	Ca_kabuli_chr06	52697062	AA	CC	1946875871
SNP_P4_88663_52697071	NC_021165.1	Ca_kabuli_chr06	52697071	AA	GG	1946875873
SNP_P4_88664_52697120	NC_021165.1	Ca_kabuli_chr06	52697120	TT	CC	1946875875
SNP_P4_88665_52698843	NC_021165.1	Ca_kabuli_chr06	52698843	AA	GG	1946875877
SNP_P4_88666_52703130	NC_021165.1	Ca_kabuli_chr06	52703130	TT	CC	1946875879
SNP_P4_88667_52711823	NC_021165.1	Ca_kabuli_chr06	52711823	CC	TT	1946875881

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_88669_52763550	NC_021165.1	Ca_kabuli_chr06	52763550	TT	AA	1946875885
SNP_P4_88670_52763551	NC_021165.1	Ca_kabuli_chr06	52763551	AA	CC	1946875887
SNP_P4_88671_52763557	NC_021165.1	Ca_kabuli_chr06	52763557	GG	AA	1946875889
SNP_P4_88672_52763571	NC_021165.1	Ca_kabuli_chr06	52763571	GG	TT	1946875891
SNP_P4_88674_52778702	NC_021165.1	Ca_kabuli_chr06	52778702	AA	GG	1946875893
SNP_P4_88675_52779377	NC_021165.1	Ca_kabuli_chr06	52779377	GG	AA	1946875895
SNP_P4_88676_52783393	NC_021165.1	Ca_kabuli_chr06	52783393	GG	AA	1946875897
SNP_P4_88677_52783469	NC_021165.1	Ca_kabuli_chr06	52783469	TT	CC	1946875899
SNP_P4_88678_52786401	NC_021165.1	Ca_kabuli_chr06	52786401	TT	CC	1946875901
SNP_P4_88679_52786403	NC_021165.1	Ca_kabuli_chr06	52786403	GG	TT	1946875903
SNP_P4_88680_52787935	NC_021165.1	Ca_kabuli_chr06	52787935	GG	TT	1946875905
SNP_P4_88682_52787985	NC_021165.1	Ca_kabuli_chr06	52787985	CC	TT	1946875907
SNP_P4_88683_52819986	NC_021165.1	Ca_kabuli_chr06	52819986	GG	TT	1946875909
SNP_P4_88684_52820038	NC_021165.1	Ca_kabuli_chr06	52820038	GG	AA	1946875911
SNP_P4_88685_52825935	NC_021165.1	Ca_kabuli_chr06	52825935	CC	TT	1946875913
SNP_P4_88686_52825948	NC_021165.1	Ca_kabuli_chr06	52825948	TT	AA	1946875915
SNP_P4_88687_52841606	NC_021165.1	Ca_kabuli_chr06	52841606	CC	AA	1946875917
SNP_P4_88688_52841810	NC_021165.1	Ca_kabuli_chr06	52841810	CC	AA	1946875919
SNP_P4_88690_52849183	NC_021165.1	Ca_kabuli_chr06	52849183	TT	CC	1946875921
SNP_P4_88693_52854012	NC_021165.1	Ca_kabuli_chr06	52854012	CC	TT	1946875923
SNP_P4_88694_52854185	NC_021165.1	Ca_kabuli_chr06	52854185	GG	AA	1946875925
SNP_P4_88695_52854317	NC_021165.1	Ca_kabuli_chr06	52854317	AA	GG	1946875927
SNP_P4_88696_52854599	NC_021165.1	Ca_kabuli_chr06	52854599	TT	GG	1946875929
SNP_P4_88698_52855095	NC_021165.1	Ca_kabuli_chr06	52855095	GG	TT	1946875931
SNP_P4_88699_52855645	NC_021165.1	Ca_kabuli_chr06	52855645	GG	AA	1946875933
SNP_P4_88700_52855684	NC_021165.1	Ca_kabuli_chr06	52855684	GG	AA	1946875935
SNP_P4_88701_52855756	NC_021165.1	Ca_kabuli_chr06	52855756	GG	AA	1946875937
SNP_P4_88702_52855852	NC_021165.1	Ca_kabuli_chr06	52855852	TT	AA	1946875939
SNP_P4_88703_52855949	NC_021165.1	Ca_kabuli_chr06	52855949	TT	CC	1946875941
SNP_P4_88704_52856023	NC_021165.1	Ca_kabuli_chr06	52856023	GG	AA	1946875943
SNP_P4_88705_52856029	NC_021165.1	Ca_kabuli_chr06	52856029	GG	TT	1946875945
SNP_P4_88706_52856034	NC_021165.1	Ca_kabuli_chr06	52856034	GG	TT	1946875947
SNP_P4_88707_52856048	NC_021165.1	Ca_kabuli_chr06	52856048	GG	AA	1946875949
SNP_P4_88709_52857748	NC_021165.1	Ca_kabuli_chr06	52857748	GG	TT	1946875951
SNP_P4_88710_52857929	NC_021165.1	Ca_kabuli_chr06	52857929	TT	CC	1946875953
SNP_P4_88711_52858012	NC_021165.1	Ca_kabuli_chr06	52858012	CC	TT	1946875955
SNP_P4_88712_52858159	NC_021165.1	Ca_kabuli_chr06	52858159	AA	CC	1946875957
SNP_P4_88713_52858224	NC_021165.1	Ca_kabuli_chr06	52858224	CC	TT	1946875959
SNP_P4_88714_52858227	NC_021165.1	Ca_kabuli_chr06	52858227	AA	CC	1946875961
SNP_P4_88715_52858229	NC_021165.1	Ca_kabuli_chr06	52858229	AA	CC	1946875963
SNP_P4_88716_52858256	NC_021165.1	Ca_kabuli_chr06	52858256	TT	CC	1946875965

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_88718_52858269	NC_021165.1	Ca_kabuli_chr06	52858269	CC	AA	1946875968
SNP_P4_88720_52858359	NC_021165.1	Ca_kabuli_chr06	52858359	AA	GG	1946875970
SNP_P4_88722_52858687	NC_021165.1	Ca_kabuli_chr06	52858687	AA	GG	1946875972
SNP_P4_88723_52858706	NC_021165.1	Ca_kabuli_chr06	52858706	CC	TT	1946875974
SNP_P4_88724_52858987	NC_021165.1	Ca_kabuli_chr06	52858987	TT	CC	1946875976
SNP_P4_88726_52859191	NC_021165.1	Ca_kabuli_chr06	52859191	AA	TT	1946875978
SNP_P4_88729_52862751	NC_021165.1	Ca_kabuli_chr06	52862751	GG	TT	1946875980
SNP_P4_88730_52863062	NC_021165.1	Ca_kabuli_chr06	52863062	AA	TT	1946875981
SNP_P4_88731_52863083	NC_021165.1	Ca_kabuli_chr06	52863083	TT	CC	1946875983
SNP_P4_88732_52863253	NC_021165.1	Ca_kabuli_chr06	52863253	TT	GG	1946875985
SNP_P4_88733_52868927	NC_021165.1	Ca_kabuli_chr06	52868927	TT	AA	1946875987
SNP_P4_88734_52868948	NC_021165.1	Ca_kabuli_chr06	52868948	AA	TT	1946875989
SNP_P4_88735_52868968	NC_021165.1	Ca_kabuli_chr06	52868968	GG	AA	1946875991
SNP_P4_88736_52868997	NC_021165.1	Ca_kabuli_chr06	52868997	AA	CC	1946875993
SNP_P4_88737_52869002	NC_021165.1	Ca_kabuli_chr06	52869002	TT	AA	1946875995
SNP_P4_88738_52869190	NC_021165.1	Ca_kabuli_chr06	52869190	CC	TT	1946875997
SNP_P4_88739_52869229	NC_021165.1	Ca_kabuli_chr06	52869229	AA	CC	1946875999
SNP_P4_88740_52869268	NC_021165.1	Ca_kabuli_chr06	52869268	TT	CC	1946876001
SNP_P4_88741_52869305	NC_021165.1	Ca_kabuli_chr06	52869305	CC	AA	1946876002
SNP_P4_88742_52869414	NC_021165.1	Ca_kabuli_chr06	52869414	CC	AA	1946876004
SNP_P4_88743_52869555	NC_021165.1	Ca_kabuli_chr06	52869555	CC	TT	1946876006
SNP_P4_88744_52869672	NC_021165.1	Ca_kabuli_chr06	52869672	GG	TT	1946876008
SNP_P4_88745_52869685	NC_021165.1	Ca_kabuli_chr06	52869685	TT	CC	1946876010
SNP_P4_88746_52869774	NC_021165.1	Ca_kabuli_chr06	52869774	AA	GG	1946876012
SNP_P4_88747_52870695	NC_021165.1	Ca_kabuli_chr06	52870695	GG	TT	1946876014
SNP_P4_88748_52878966	NC_021165.1	Ca_kabuli_chr06	52878966	AA	TT	1946876016
SNP_P4_88749_52885298	NC_021165.1	Ca_kabuli_chr06	52885298	CC	AA	1946876019
SNP_P4_88750_52885332	NC_021165.1	Ca_kabuli_chr06	52885332	CC	AA	1946876021
SNP_P4_88751_52885362	NC_021165.1	Ca_kabuli_chr06	52885362	CC	TT	1946876023
SNP_P4_88752_52885405	NC_021165.1	Ca_kabuli_chr06	52885405	TT	CC	1946876025
SNP_P4_88753_52885416	NC_021165.1	Ca_kabuli_chr06	52885416	GG	AA	1946876027
SNP_P4_88754_52885418	NC_021165.1	Ca_kabuli_chr06	52885418	CC	AA	1946876029
SNP_P4_88755_52885657	NC_021165.1	Ca_kabuli_chr06	52885657	AA	GG	1946876031
SNP_P4_88756_52885741	NC_021165.1	Ca_kabuli_chr06	52885741	AA	CC	1946876033
SNP_P4_88757_52885745	NC_021165.1	Ca_kabuli_chr06	52885745	AA	TT	1946876035
SNP_P4_88758_52885951	NC_021165.1	Ca_kabuli_chr06	52885951	CC	AA	1946876037
SNP_P4_88759_52885956	NC_021165.1	Ca_kabuli_chr06	52885956	GG	AA	1946876039
SNP_P4_88760_52885973	NC_021165.1	Ca_kabuli_chr06	52885973	CC	TT	1946876041
SNP_P4_88761_52885981	NC_021165.1	Ca_kabuli_chr06	52885981	AA	GG	1946876043
SNP_P4_88762_52885984	NC_021165.1	Ca_kabuli_chr06	52885984	CC	TT	1946876045
SNP_P4_88764_52889942	NC_021165.1	Ca_kabuli_chr06	52889942	CC	GG	1946876047

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_88766_52890054	NC_021165.1	Ca_kabuli_chr06	52890054	TT	CC	1946876051
SNP_P4_88768_52890343	NC_021165.1	Ca_kabuli_chr06	52890343	TT	CC	1946876053
SNP_P4_88769_52890482	NC_021165.1	Ca_kabuli_chr06	52890482	TT	CC	1946876055
SNP_P4_88770_52890534	NC_021165.1	Ca_kabuli_chr06	52890534	AA	GG	1946876057
SNP_P4_88771_52895880	NC_021165.1	Ca_kabuli_chr06	52895880	TT	CC	1946876059
SNP_P4_88772_52895884	NC_021165.1	Ca_kabuli_chr06	52895884	GG	CC	1946876061
SNP_P4_88773_52895907	NC_021165.1	Ca_kabuli_chr06	52895907	CC	TT	1946876062
SNP_P4_88774_52895926	NC_021165.1	Ca_kabuli_chr06	52895926	TT	CC	1946876064
SNP_P4_88775_52931607	NC_021165.1	Ca_kabuli_chr06	52931607	GG	AA	1946876066
SNP_P4_88776_52931624	NC_021165.1	Ca_kabuli_chr06	52931624	CC	TT	1946876068
SNP_P4_88777_52931637	NC_021165.1	Ca_kabuli_chr06	52931637	CC	TT	1946876070
SNP_P4_88778_52931648	NC_021165.1	Ca_kabuli_chr06	52931648	CC	TT	1946876072
SNP_P4_88780_52958944	NC_021165.1	Ca_kabuli_chr06	52958944	AA	CC	1946876074
SNP_P4_88782_52960348	NC_021165.1	Ca_kabuli_chr06	52960348	CC	TT	1946876076
SNP_P4_88783_52960369	NC_021165.1	Ca_kabuli_chr06	52960369	GG	CC	1946876078
SNP_P4_88784_52971877	NC_021165.1	Ca_kabuli_chr06	52971877	AA	GG	1946876080
SNP_P4_88785_52991239	NC_021165.1	Ca_kabuli_chr06	52991239	TT	CC	1946876082
SNP_P4_88787_53002670	NC_021165.1	Ca_kabuli_chr06	53002670	AA	TT	1946876084
SNP_P4_88788_53005329	NC_021165.1	Ca_kabuli_chr06	53005329	AA	TT	1946876086
SNP_P4_88789_53005511	NC_021165.1	Ca_kabuli_chr06	53005511	GG	CC	1946876088
SNP_P4_88790_53005538	NC_021165.1	Ca_kabuli_chr06	53005538	GG	TT	1946876090
SNP_P4_88791_53010148	NC_021165.1	Ca_kabuli_chr06	53010148	AA	GG	1946876092
SNP_P4_88792_53010332	NC_021165.1	Ca_kabuli_chr06	53010332	TT	CC	1946876094
SNP_P4_88793_53010335	NC_021165.1	Ca_kabuli_chr06	53010335	GG	AA	1946876096
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SNP_P4_88795_53010541	NC_021165.1	Ca_kabuli_chr06	53010541	CC	AA	1946876100
SNP_P4_88797_53029084	NC_021165.1	Ca_kabuli_chr06	53029084	AA	TT	1946876101
SNP_P4_88798_53029106	NC_021165.1	Ca_kabuli_chr06	53029106	AA	GG	1946876103
SNP_P4_88799_53029243	NC_021165.1	Ca_kabuli_chr06	53029243	AA	GG	1946876105
SNP_P4_88800_53030785	NC_021165.1	Ca_kabuli_chr06	53030785	AA	GG	1946876107
SNP_P4_88801_53045374	NC_021165.1	Ca_kabuli_chr06	53045374	CC	GG	1946876109
SNP_P4_88802_53045382	NC_021165.1	Ca_kabuli_chr06	53045382	TT	GG	1946876111
SNP_P4_88803_53045397	NC_021165.1	Ca_kabuli_chr06	53045397	TT	CC	1946876112
SNP_P4_88804_53046712	NC_021165.1	Ca_kabuli_chr06	53046712	GG	TT	1946876114
SNP_P4_88805_53057658	NC_021165.1	Ca_kabuli_chr06	53057658	AA	GG	1946876116
SNP_P4_88806_53057659	NC_021165.1	Ca_kabuli_chr06	53057659	AA	TT	1946876118
SNP_P4_88807_53057663	NC_021165.1	Ca_kabuli_chr06	53057663	CC	GG	1946876120
SNP_P4_88808_53057676	NC_021165.1	Ca_kabuli_chr06	53057676	AA	GG	1946876122
SNP_P4_88809_53057829	NC_021165.1	Ca_kabuli_chr06	53057829	GG	AA	1946876124
SNP_P4_88810_53057913	NC_021165.1	Ca_kabuli_chr06	53057913	TT	CC	1946876126
SNP_P4_88811_53057951	NC_021165.1	Ca_kabuli_chr06	53057951	TT	CC	1946876128

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_88813_53057973	NC_021165.1	Ca_kabuli_chr06	53057973	GG	AA	1946876132
SNP_P4_88814_53058040	NC_021165.1	Ca_kabuli_chr06	53058040	GG	CC	1946876134
SNP_P4_88815_53058053	NC_021165.1	Ca_kabuli_chr06	53058053	CC	AA	1946876136
SNP_P4_88816_53058096	NC_021165.1	Ca_kabuli_chr06	53058096	AA	GG	1946876138
SNP_P4_88817_53058159	NC_021165.1	Ca_kabuli_chr06	53058159	AA	TT	1946876140
SNP_P4_88818_53058164	NC_021165.1	Ca_kabuli_chr06	53058164	TT	GG	1946876142
SNP_P4_88819_53058167	NC_021165.1	Ca_kabuli_chr06	53058167	TT	CC	1946876144
SNP_P4_88820_53072875	NC_021165.1	Ca_kabuli_chr06	53072875	AA	CC	1946876146
SNP_P4_88821_53099277	NC_021165.1	Ca_kabuli_chr06	53099277	AA	TT	1946876148
SNP_P4_88822_53126812	NC_021165.1	Ca_kabuli_chr06	53126812	AA	GG	1946876150
SNP_P4_88823_53128934	NC_021165.1	Ca_kabuli_chr06	53128934	AA	TT	1946876152
SNP_P4_88824_53144911	NC_021165.1	Ca_kabuli_chr06	53144911	CC	TT	1946876154
SNP_P4_88825_53146479	NC_021165.1	Ca_kabuli_chr06	53146479	AA	TT	1946876156
SNP_P4_88826_53177612	NC_021165.1	Ca_kabuli_chr06	53177612	GG	TT	1946876158
SNP_P4_88827_53177614	NC_021165.1	Ca_kabuli_chr06	53177614	AA	TT	1946876160
SNP_P4_88828_53191216	NC_021165.1	Ca_kabuli_chr06	53191216	CC	TT	1946876162
SNP_P4_88829_53191536	NC_021165.1	Ca_kabuli_chr06	53191536	GG	TT	1946876164
SNP_P4_88830_53217679	NC_021165.1	Ca_kabuli_chr06	53217679	GG	CC	1946876166
SNP_P4_88831_53217687	NC_021165.1	Ca_kabuli_chr06	53217687	CC	TT	1946876168
SNP_P4_88832_53219850	NC_021165.1	Ca_kabuli_chr06	53219850	TT	AA	1946876170
SNP_P4_88834_53270579	NC_021165.1	Ca_kabuli_chr06	53270579	AA	CC	1946876172
SNP_P4_88835_53279414	NC_021165.1	Ca_kabuli_chr06	53279414	CC	AA	1946876174
SNP_P4_88836_53285311	NC_021165.1	Ca_kabuli_chr06	53285311	AA	TT	1946876176
SNP_P4_88837_53285314	NC_021165.1	Ca_kabuli_chr06	53285314	TT	GG	1946876178
SNP_P4_88838_53303257	NC_021165.1	Ca_kabuli_chr06	53303257	GG	AA	1946876180
SNP_P4_88839_53304277	NC_021165.1	Ca_kabuli_chr06	53304277	CC	TT	1946876182
SNP_P4_88840_53304345	NC_021165.1	Ca_kabuli_chr06	53304345	TT	CC	1946876184
SNP_P4_88842_53304459	NC_021165.1	Ca_kabuli_chr06	53304459	TT	GG	1946876186
SNP_P4_88843_53304498	NC_021165.1	Ca_kabuli_chr06	53304498	AA	GG	1946876188
SNP_P4_88844_53304583	NC_021165.1	Ca_kabuli_chr06	53304583	AA	GG	1946876190
SNP_P4_88845_53304630	NC_021165.1	Ca_kabuli_chr06	53304630	CC	TT	1946876193
SNP_P4_88846_53304644	NC_021165.1	Ca_kabuli_chr06	53304644	GG	TT	1946876195
SNP_P4_88847_53304750	NC_021165.1	Ca_kabuli_chr06	53304750	CC	TT	1946876197
SNP_P4_88848_53304760	NC_021165.1	Ca_kabuli_chr06	53304760	TT	CC	1946876199
SNP_P4_88849_53304761	NC_021165.1	Ca_kabuli_chr06	53304761	CC	TT	1946876201
SNP_P4_88850_53304803	NC_021165.1	Ca_kabuli_chr06	53304803	AA	TT	1946876203
SNP_P4_88851_53304830	NC_021165.1	Ca_kabuli_chr06	53304830	GG	TT	1946876205
SNP_P4_88852_53304900	NC_021165.1	Ca_kabuli_chr06	53304900	CC	TT	1946876207
SNP_P4_88853_53304910	NC_021165.1	Ca_kabuli_chr06	53304910	GG	CC	1946876209
SNP_P4_88854_53304942	NC_021165.1	Ca_kabuli_chr06	53304942	TT	CC	1946876211
SNP_P4_88855_53304969	NC_021165.1	Ca_kabuli_chr06	53304969	TT	CC	1946876213

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_88856_53305040	NC_021165.1	Ca_kabuli_chr06	53305040	AA	CC	1946876215
SNP_P4_88857_53305059	NC_021165.1	Ca_kabuli_chr06	53305059	GG	AA	1946876217
SNP_P4_88858_53305064	NC_021165.1	Ca_kabuli_chr06	53305064	CC	TT	1946876219
SNP_P4_88859_53305083	NC_021165.1	Ca_kabuli_chr06	53305083	TT	AA	1946876221
SNP_P4_88860_53305092	NC_021165.1	Ca_kabuli_chr06	53305092	AA	TT	1946876223
SNP_P4_88861_53305120	NC_021165.1	Ca_kabuli_chr06	53305120	GG	CC	1946876225
SNP_P4_88862_53305256	NC_021165.1	Ca_kabuli_chr06	53305256	GG	TT	1946876227
SNP_P4_88863_53305293	NC_021165.1	Ca_kabuli_chr06	53305293	TT	CC	1946876229
SNP_P4_88864_53305304	NC_021165.1	Ca_kabuli_chr06	53305304	GG	AA	1946876231
SNP_P4_88866_53305491	NC_021165.1	Ca_kabuli_chr06	53305491	TT	CC	1946876233
SNP_P4_88867_53305503	NC_021165.1	Ca_kabuli_chr06	53305503	TT	GG	1946876236
SNP_P4_88868_53305581	NC_021165.1	Ca_kabuli_chr06	53305581	CC	TT	1946876238
SNP_P4_88869_53305597	NC_021165.1	Ca_kabuli_chr06	53305597	TT	CC	1946876240
SNP_P4_88870_53310289	NC_021165.1	Ca_kabuli_chr06	53310289	TT	GG	1946876242
SNP_P4_88871_53310315	NC_021165.1	Ca_kabuli_chr06	53310315	AA	TT	1946876244
SNP_P4_88872_53310359	NC_021165.1	Ca_kabuli_chr06	53310359	GG	AA	1946876246
SNP_P4_88873_53310392	NC_021165.1	Ca_kabuli_chr06	53310392	GG	AA	1946876248
SNP_P4_88874_53310403	NC_021165.1	Ca_kabuli_chr06	53310403	AA	CC	1946876250
SNP_P4_88875_53310411	NC_021165.1	Ca_kabuli_chr06	53310411	CC	GG	1946876252
SNP_P4_88876_53310421	NC_021165.1	Ca_kabuli_chr06	53310421	GG	TT	1946876254
SNP_P4_88877_53310468	NC_021165.1	Ca_kabuli_chr06	53310468	GG	AA	1946876256
SNP_P4_88878_53310491	NC_021165.1	Ca_kabuli_chr06	53310491	GG	AA	1946876258
SNP_P4_88879_53310648	NC_021165.1	Ca_kabuli_chr06	53310648	TT	GG	1946876260
SNP_P4_88880_53311167	NC_021165.1	Ca_kabuli_chr06	53311167	GG	AA	1946876262
SNP_P4_88881_53311208	NC_021165.1	Ca_kabuli_chr06	53311208	AA	TT	1946876264
SNP_P4_88883_53311453	NC_021165.1	Ca_kabuli_chr06	53311453	CC	TT	1946876266
SNP_P4_88884_53312050	NC_021165.1	Ca_kabuli_chr06	53312050	GG	AA	1946876268
SNP_P4_88885_53312174	NC_021165.1	Ca_kabuli_chr06	53312174	GG	CC	1946876270
SNP_P4_88886_53312233	NC_021165.1	Ca_kabuli_chr06	53312233	CC	AA	1946876272
SNP_P4_88888_53312388	NC_021165.1	Ca_kabuli_chr06	53312388	TT	CC	1946876274
SNP_P4_88889_53312435	NC_021165.1	Ca_kabuli_chr06	53312435	GG	CC	1946876276
SNP_P4_88890_53312476	NC_021165.1	Ca_kabuli_chr06	53312476	TT	AA	1946876278
SNP_P4_88891_53312547	NC_021165.1	Ca_kabuli_chr06	53312547	AA	CC	1946876280
SNP_P4_88892_53312551	NC_021165.1	Ca_kabuli_chr06	53312551	TT	AA	1946876283
SNP_P4_88893_53312614	NC_021165.1	Ca_kabuli_chr06	53312614	AA	CC	1946876284
SNP_P4_88894_53312841	NC_021165.1	Ca_kabuli_chr06	53312841	CC	AA	1946876286
SNP_P4_88895_53312868	NC_021165.1	Ca_kabuli_chr06	53312868	TT	AA	1946876288
SNP_P4_88896_53312908	NC_021165.1	Ca_kabuli_chr06	53312908	GG	AA	1946876290
SNP_P4_88897_53312951	NC_021165.1	Ca_kabuli_chr06	53312951	CC	GG	1946876292
SNP_P4_88898_53312994	NC_021165.1	Ca_kabuli_chr06	53312994	GG	CC	1946876294
SNP_P4_88899_53313124	NC_021165.1	Ca_kabuli_chr06	53313124	TT	CC	1946876296
SNP_P4_88900_53313174	NC_021165.1	Ca_kabuli_chr06	53313174	TT	AA	1946876298

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_88902_53337285	NC_021165.1	Ca_kabuli_chr06	53337285	GG	AA	1946876302
SNP_P4_88903_53337765	NC_021165.1	Ca_kabuli_chr06	53337765	GG	AA	1946876304
SNP_P4_88904_53342649	NC_021165.1	Ca_kabuli_chr06	53342649	AA	CC	1946876306
SNP_P4_88905_53342654	NC_021165.1	Ca_kabuli_chr06	53342654	CC	TT	1946876308
SNP_P4_88906_53342675	NC_021165.1	Ca_kabuli_chr06	53342675	AA	GG	1946876310
SNP_P4_88907_53342702	NC_021165.1	Ca_kabuli_chr06	53342702	CC	TT	1946876312
SNP_P4_88908_53344248	NC_021165.1	Ca_kabuli_chr06	53344248	CC	TT	1946876314
SNP_P4_88909_53344261	NC_021165.1	Ca_kabuli_chr06	53344261	GG	AA	1946876316
SNP_P4_88910_53344269	NC_021165.1	Ca_kabuli_chr06	53344269	TT	CC	1946876318
SNP_P4_88911_53344275	NC_021165.1	Ca_kabuli_chr06	53344275	TT	AA	1946876320
SNP_P4_88912_53344279	NC_021165.1	Ca_kabuli_chr06	53344279	TT	GG	1946876322
SNP_P4_88913_53344280	NC_021165.1	Ca_kabuli_chr06	53344280	CC	GG	1946876323
SNP_P4_88914_53344281	NC_021165.1	Ca_kabuli_chr06	53344281	AA	GG	1946876325
SNP_P4_88916_53360945	NC_021165.1	Ca_kabuli_chr06	53360945	CC	TT	1946876327
SNP_P4_88917_53363334	NC_021165.1	Ca_kabuli_chr06	53363334	GG	TT	1946876329
SNP_P4_88918_53363564	NC_021165.1	Ca_kabuli_chr06	53363564	AA	GG	1946876331
SNP_P4_88919_53363578	NC_021165.1	Ca_kabuli_chr06	53363578	AA	GG	1946876333
SNP_P4_88920_53363657	NC_021165.1	Ca_kabuli_chr06	53363657	AA	GG	1946876335
SNP_P4_88922_53363681	NC_021165.1	Ca_kabuli_chr06	53363681	AA	CC	1946876337
SNP_P4_88923_53372267	NC_021165.1	Ca_kabuli_chr06	53372267	GG	AA	1946876339
SNP_P4_88924_53372291	NC_021165.1	Ca_kabuli_chr06	53372291	TT	AA	1946876341
SNP_P4_88925_53372295	NC_021165.1	Ca_kabuli_chr06	53372295	AA	GG	1946876343
SNP_P4_88926_53372395	NC_021165.1	Ca_kabuli_chr06	53372395	TT	GG	1946876345
SNP_P4_88927_53372396	NC_021165.1	Ca_kabuli_chr06	53372396	TT	CC	1946876346
SNP_P4_88928_53398985	NC_021165.1	Ca_kabuli_chr06	53398985	TT	CC	1946876348
SNP_P4_88929_53411173	NC_021165.1	Ca_kabuli_chr06	53411173	AA	CC	1946876350
SNP_P4_88930_53411295	NC_021165.1	Ca_kabuli_chr06	53411295	AA	GG	1946876352
SNP_P4_88931_53411304	NC_021165.1	Ca_kabuli_chr06	53411304	TT	GG	1946876354
SNP_P4_88932_53411546	NC_021165.1	Ca_kabuli_chr06	53411546	GG	TT	1946876356
SNP_P4_88933_53413657	NC_021165.1	Ca_kabuli_chr06	53413657	AA	GG	1946876358
SNP_P4_88935_53414009	NC_021165.1	Ca_kabuli_chr06	53414009	TT	CC	1946876360
SNP_P4_88936_53414028	NC_021165.1	Ca_kabuli_chr06	53414028	TT	CC	1946876362
SNP_P4_88937_53414073	NC_021165.1	Ca_kabuli_chr06	53414073	TT	GG	1946876364
SNP_P4_88940_53487314	NC_021165.1	Ca_kabuli_chr06	53487314	GG	AA	1946876366
SNP_P4_88942_53493546	NC_021165.1	Ca_kabuli_chr06	53493546	TT	CC	1946876368
SNP_P4_88943_53493580	NC_021165.1	Ca_kabuli_chr06	53493580	AA	CC	1946876370
SNP_P4_88944_53493733	NC_021165.1	Ca_kabuli_chr06	53493733	AA	CC	1946876372
SNP_P4_88945_53512000	NC_021165.1	Ca_kabuli_chr06	53512000	CC	AA	1946876374
SNP_P4_88946_53518149	NC_021165.1	Ca_kabuli_chr06	53518149	TT	CC	1946876376
SNP_P4_88947_53522010	NC_021165.1	Ca_kabuli_chr06	53522010	CC	TT	1946876378
SNP_P4_88948_53522023	NC_021165.1	Ca_kabuli_chr06	53522023	TT	CC	1946876381

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_88951_53531350	NC_021165.1	Ca_kabuli_chr06	53531350	GG	CC	1946876387
SNP_P4_88952_53531623	NC_021165.1	Ca_kabuli_chr06	53531623	CC	AA	1946876389
SNP_P4_88953_53545741	NC_021165.1	Ca_kabuli_chr06	53545741	GG	TT	1946876391
SNP_P4_88954_53547845	NC_021165.1	Ca_kabuli_chr06	53547845	TT	CC	1946876393
SNP_P4_88955_53551878	NC_021165.1	Ca_kabuli_chr06	53551878	CC	AA	1946876395
SNP_P4_88956_53582484	NC_021165.1	Ca_kabuli_chr06	53582484	CC	TT	1946876397
SNP_P4_88957_53585323	NC_021165.1	Ca_kabuli_chr06	53585323	AA	GG	1946876399
SNP_P4_88958_53599299	NC_021165.1	Ca_kabuli_chr06	53599299	CC	TT	1946876401
SNP_P4_88959_53616096	NC_021165.1	Ca_kabuli_chr06	53616096	AA	CC	1946876403
SNP_P4_88960_53619087	NC_021165.1	Ca_kabuli_chr06	53619087	CC	TT	1946876405
SNP_P4_88961_53627299	NC_021165.1	Ca_kabuli_chr06	53627299	CC	TT	1946876407
SNP_P4_88962_53630525	NC_021165.1	Ca_kabuli_chr06	53630525	GG	AA	1946876408
SNP_P4_88963_53646431	NC_021165.1	Ca_kabuli_chr06	53646431	TT	GG	1946876410
SNP_P4_88964_53646432	NC_021165.1	Ca_kabuli_chr06	53646432	GG	TT	1946876412
SNP_P4_88965_53648977	NC_021165.1	Ca_kabuli_chr06	53648977	GG	AA	1946876414
SNP_P4_88968_53670483	NC_021165.1	Ca_kabuli_chr06	53670483	TT	AA	1946876417
SNP_P4_88969_53691467	NC_021165.1	Ca_kabuli_chr06	53691467	TT	AA	1946876419
SNP_P4_88971_53730484	NC_021165.1	Ca_kabuli_chr06	53730484	GG	AA	1946876421
SNP_P4_88972_53736444	NC_021165.1	Ca_kabuli_chr06	53736444	CC	TT	1946876423
SNP_P4_88973_53736475	NC_021165.1	Ca_kabuli_chr06	53736475	AA	GG	1946876425
SNP_P4_88974_53739129	NC_021165.1	Ca_kabuli_chr06	53739129	GG	AA	1946876427
SNP_P4_88975_53761180	NC_021165.1	Ca_kabuli_chr06	53761180	AA	TT	1946876429
SNP_P4_88977_53794896	NC_021165.1	Ca_kabuli_chr06	53794896	TT	AA	1946876431
SNP_P4_88978_53794900	NC_021165.1	Ca_kabuli_chr06	53794900	AA	TT	1946876433
SNP_P4_88979_53794901	NC_021165.1	Ca_kabuli_chr06	53794901	AA	TT	1946876435
SNP_P4_88980_53794905	NC_021165.1	Ca_kabuli_chr06	53794905	GG	AA	1946876437
SNP_P4_88981_53794910	NC_021165.1	Ca_kabuli_chr06	53794910	AA	TT	1946876439
SNP_P4_88982_53797720	NC_021165.1	Ca_kabuli_chr06	53797720	TT	CC	1946876441
SNP_P4_88983_53797876	NC_021165.1	Ca_kabuli_chr06	53797876	CC	GG	1946876443
SNP_P4_88984_53797942	NC_021165.1	Ca_kabuli_chr06	53797942	AA	TT	1946876445
SNP_P4_88986_53811557	NC_021165.1	Ca_kabuli_chr06	53811557	TT	CC	1946876447
SNP_P4_88987_53811725	NC_021165.1	Ca_kabuli_chr06	53811725	TT	CC	1946876449
SNP_P4_88988_53815021	NC_021165.1	Ca_kabuli_chr06	53815021	AA	GG	1946876451
SNP_P4_88989_53815025	NC_021165.1	Ca_kabuli_chr06	53815025	AA	GG	1946876453
SNP_P4_88990_53815108	NC_021165.1	Ca_kabuli_chr06	53815108	CC	TT	1946876455
SNP_P4_88991_53832362	NC_021165.1	Ca_kabuli_chr06	53832362	TT	CC	1946876457
SNP_P4_88992_53849103	NC_021165.1	Ca_kabuli_chr06	53849103	AA	TT	1946876459
SNP_P4_88993_53910885	NC_021165.1	Ca_kabuli_chr06	53910885	AA	CC	1946876461
SNP_P4_88994_53910886	NC_021165.1	Ca_kabuli_chr06	53910886	TT	GG	1946876463
SNP_P4_88995_53910912	NC_021165.1	Ca_kabuli_chr06	53910912	GG	AA	1946876465

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_88997_53920272	NC_021165.1	Ca_kabuli_chr06	53920272	TT	AA	1946876469
SNP_P4_88998_53928170	NC_021165.1	Ca_kabuli_chr06	53928170	CC	GG	1946876471
SNP_P4_88999_53973583	NC_021165.1	Ca_kabuli_chr06	53973583	AA	GG	1946876473
SNP_P4_89000_53980393	NC_021165.1	Ca_kabuli_chr06	53980393	TT	GG	1946876475
SNP_P4_89001_53980449	NC_021165.1	Ca_kabuli_chr06	53980449	CC	TT	1946876477
SNP_P4_89002_53987033	NC_021165.1	Ca_kabuli_chr06	53987033	GG	TT	1946876479
SNP_P4_89003_53987054	NC_021165.1	Ca_kabuli_chr06	53987054	AA	GG	1946876481
SNP_P4_89004_54017617	NC_021165.1	Ca_kabuli_chr06	54017617	GG	AA	1946876483
SNP_P4_89005_54019206	NC_021165.1	Ca_kabuli_chr06	54019206	TT	AA	1946876485
SNP_P4_89006_54028611	NC_021165.1	Ca_kabuli_chr06	54028611	TT	AA	1946876487
SNP_P4_89007_54028666	NC_021165.1	Ca_kabuli_chr06	54028666	TT	CC	1946876489
SNP_P4_89008_54028721	NC_021165.1	Ca_kabuli_chr06	54028721	GG	AA	1946876492
SNP_P4_89009_54028739	NC_021165.1	Ca_kabuli_chr06	54028739	CC	AA	1946876494
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SNP_P4_89011_54028885	NC_021165.1	Ca_kabuli_chr06	54028885	AA	GG	1946876498
SNP_P4_89012_54028892	NC_021165.1	Ca_kabuli_chr06	54028892	CC	TT	1946876500
SNP_P4_89015_54068770	NC_021165.1	Ca_kabuli_chr06	54068770	GG	TT	1946876502
SNP_P4_89016_54068841	NC_021165.1	Ca_kabuli_chr06	54068841	GG	TT	1946876504
SNP_P4_89020_54069012	NC_021165.1	Ca_kabuli_chr06	54069012	TT	CC	1946876506
SNP_P4_89021_54069087	NC_021165.1	Ca_kabuli_chr06	54069087	GG	TT	1946876508
SNP_P4_89022_54069103	NC_021165.1	Ca_kabuli_chr06	54069103	CC	TT	1946876510
SNP_P4_89024_54069173	NC_021165.1	Ca_kabuli_chr06	54069173	TT	AA	1946876512
SNP_P4_89025_54069745	NC_021165.1	Ca_kabuli_chr06	54069745	AA	CC	1946876514
SNP_P4_89026_54069756	NC_021165.1	Ca_kabuli_chr06	54069756	AA	GG	1946876516
SNP_P4_89027_54069773	NC_021165.1	Ca_kabuli_chr06	54069773	GG	AA	1946876518
SNP_P4_89028_54069784	NC_021165.1	Ca_kabuli_chr06	54069784	AA	CC	1946876520
SNP_P4_89029_54069833	NC_021165.1	Ca_kabuli_chr06	54069833	TT	CC	1946876522
SNP_P4_89030_54069846	NC_021165.1	Ca_kabuli_chr06	54069846	TT	CC	1946876524
SNP_P4_89031_54069883	NC_021165.1	Ca_kabuli_chr06	54069883	TT	AA	1946876526
SNP_P4_89033_54070041	NC_021165.1	Ca_kabuli_chr06	54070041	AA	CC	1946876528
SNP_P4_89034_54070050	NC_021165.1	Ca_kabuli_chr06	54070050	TT	GG	1946876530
SNP_P4_89035_54070066	NC_021165.1	Ca_kabuli_chr06	54070066	TT	AA	1946876532
SNP_P4_89037_54070150	NC_021165.1	Ca_kabuli_chr06	54070150	TT	CC	1946876534
SNP_P4_89038_54070176	NC_021165.1	Ca_kabuli_chr06	54070176	CC	GG	1946876536
SNP_P4_89039_54070190	NC_021165.1	Ca_kabuli_chr06	54070190	TT	CC	1946876538
SNP_P4_89040_54070215	NC_021165.1	Ca_kabuli_chr06	54070215	CC	TT	1946876540
SNP_P4_89041_54070231	NC_021165.1	Ca_kabuli_chr06	54070231	GG	AA	1946876542
SNP_P4_89043_54070274	NC_021165.1	Ca_kabuli_chr06	54070274	CC	TT	1946876544
SNP_P4_89044_54070277	NC_021165.1	Ca_kabuli_chr06	54070277	AA	CC	1946876546
SNP_P4_89045_54070287	NC_021165.1	Ca_kabuli_chr06	54070287	CC	TT	1946876548
SNP_P4_89046_54083952	NC_021165.1	Ca_kabuli_chr06	54083952	AA	GG	1946876551

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_89049_54122139	NC_021165.1	Ca_kabuli_chr06	54122139	CC	AA	1946876555
SNP_P4_89051_54143323	NC_021165.1	Ca_kabuli_chr06	54143323	AA	GG	1946876557
SNP_P4_89053_54143409	NC_021165.1	Ca_kabuli_chr06	54143409	GG	AA	1946876559
SNP_P4_89054_54143425	NC_021165.1	Ca_kabuli_chr06	54143425	AA	TT	1946876561
SNP_P4_89055_54143477	NC_021165.1	Ca_kabuli_chr06	54143477	AA	TT	1946876563
SNP_P4_89056_54143512	NC_021165.1	Ca_kabuli_chr06	54143512	CC	TT	1946876565
SNP_P4_89058_54143678	NC_021165.1	Ca_kabuli_chr06	54143678	AA	TT	1946876567
SNP_P4_89060_54143820	NC_021165.1	Ca_kabuli_chr06	54143820	GG	TT	1946876569
SNP_P4_89061_54143881	NC_021165.1	Ca_kabuli_chr06	54143881	CC	TT	1946876571
SNP_P4_89062_54144064	NC_021165.1	Ca_kabuli_chr06	54144064	GG	AA	1946876573
SNP_P4_89064_54144113	NC_021165.1	Ca_kabuli_chr06	54144113	AA	CC	1946876575
SNP_P4_89066_54144462	NC_021165.1	Ca_kabuli_chr06	54144462	CC	GG	1946876577
SNP_P4_89067_54144469	NC_021165.1	Ca_kabuli_chr06	54144469	AA	TT	1946876579
SNP_P4_89068_54144780	NC_021165.1	Ca_kabuli_chr06	54144780	AA	TT	1946876581
SNP_P4_89069_54144787	NC_021165.1	Ca_kabuli_chr06	54144787	TT	AA	1946876583
SNP_P4_89070_54146560	NC_021165.1	Ca_kabuli_chr06	54146560	GG	AA	1946876585
SNP_P4_89071_54146818	NC_021165.1	Ca_kabuli_chr06	54146818	GG	AA	1946876587
SNP_P4_89072_54146882	NC_021165.1	Ca_kabuli_chr06	54146882	GG	AA	1946876589
SNP_P4_89073_54147186	NC_021165.1	Ca_kabuli_chr06	54147186	GG	AA	1946876591
SNP_P4_89074_54147199	NC_021165.1	Ca_kabuli_chr06	54147199	AA	GG	1946876593
SNP_P4_89075_54147205	NC_021165.1	Ca_kabuli_chr06	54147205	GG	TT	1946876595
SNP_P4_89076_54148627	NC_021165.1	Ca_kabuli_chr06	54148627	CC	GG	1946876597
SNP_P4_89077_54149346	NC_021165.1	Ca_kabuli_chr06	54149346	AA	TT	1946876599
SNP_P4_89078_54151685	NC_021165.1	Ca_kabuli_chr06	54151685	CC	TT	1946876601
SNP_P4_89079_54152426	NC_021165.1	Ca_kabuli_chr06	54152426	GG	CC	1946876603
SNP_P4_89080_54152436	NC_021165.1	Ca_kabuli_chr06	54152436	TT	AA	1946876605
SNP_P4_89082_54152630	NC_021165.1	Ca_kabuli_chr06	54152630	GG	AA	1946876607
SNP_P4_89083_54152638	NC_021165.1	Ca_kabuli_chr06	54152638	GG	AA	1946876609
SNP_P4_89084_54154123	NC_021165.1	Ca_kabuli_chr06	54154123	TT	GG	1946876611
SNP_P4_89085_54157685	NC_021165.1	Ca_kabuli_chr06	54157685	TT	AA	1946876613
SNP_P4_89086_54159160	NC_021165.1	Ca_kabuli_chr06	54159160	TT	CC	1946876615
SNP_P4_89087_54160602	NC_021165.1	Ca_kabuli_chr06	54160602	AA	TT	1946876617
SNP_P4_89088_54160684	NC_021165.1	Ca_kabuli_chr06	54160684	TT	CC	1946876620
SNP_P4_89092_54161054	NC_021165.1	Ca_kabuli_chr06	54161054	GG	TT	1946876622
SNP_P4_89093_54161495	NC_021165.1	Ca_kabuli_chr06	54161495	AA	GG	1946876624
SNP_P4_89094_54161506	NC_021165.1	Ca_kabuli_chr06	54161506	GG	AA	1946876626
SNP_P4_89095_54162220	NC_021165.1	Ca_kabuli_chr06	54162220	GG	AA	1946876628
SNP_P4_89096_54162233	NC_021165.1	Ca_kabuli_chr06	54162233	AA	GG	1946876630
SNP_P4_89097_54162432	NC_021165.1	Ca_kabuli_chr06	54162432	TT	CC	1946876632
SNP_P4_89098_54162693	NC_021165.1	Ca_kabuli_chr06	54162693	TT	GG	1946876634
SNP_P4_89099_54162757	NC_021165.1	Ca_kabuli_chr06	54162757	CC	TT	1946876636

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_89101_54163798	NC_021165.1	Ca_kabuli_chr06	54163798	TT	CC	1946876640
SNP_P4_89103_54164085	NC_021165.1	Ca_kabuli_chr06	54164085	GG	AA	1946876642
SNP_P4_89104_54164099	NC_021165.1	Ca_kabuli_chr06	54164099	CC	TT	1946876644
SNP_P4_89105_54164116	NC_021165.1	Ca_kabuli_chr06	54164116	TT	CC	1946876646
SNP_P4_89106_54164131	NC_021165.1	Ca_kabuli_chr06	54164131	CC	AA	1946876648
SNP_P4_89107_54174938	NC_021165.1	Ca_kabuli_chr06	54174938	TT	CC	1946876650
SNP_P4_89108_54175050	NC_021165.1	Ca_kabuli_chr06	54175050	AA	TT	1946876652
SNP_P4_89110_54180260	NC_021165.1	Ca_kabuli_chr06	54180260	TT	CC	1946876653
SNP_P4_89111_54182633	NC_021165.1	Ca_kabuli_chr06	54182633	TT	AA	1946876654
SNP_P4_89112_54182639	NC_021165.1	Ca_kabuli_chr06	54182639	CC	TT	1946876655
SNP_P4_89115_54200102	NC_021165.1	Ca_kabuli_chr06	54200102	GG	CC	1946876656
SNP_P4_89116_54219385	NC_021165.1	Ca_kabuli_chr06	54219385	CC	TT	1946876657
SNP_P4_89117_54220955	NC_021165.1	Ca_kabuli_chr06	54220955	CC	GG	1946876660
SNP_P4_89118_54271455	NC_021165.1	Ca_kabuli_chr06	54271455	AA	GG	1946876662
SNP_P4_89119_54277455	NC_021165.1	Ca_kabuli_chr06	54277455	GG	AA	1946876664
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SNP_P4_89121_54303639	NC_021165.1	Ca_kabuli_chr06	54303639	GG	TT	1946876668
SNP_P4_89122_54315075	NC_021165.1	Ca_kabuli_chr06	54315075	CC	TT	1946876670
SNP_P4_89123_54315079	NC_021165.1	Ca_kabuli_chr06	54315079	AA	GG	1946876672
SNP_P4_89124_54315123	NC_021165.1	Ca_kabuli_chr06	54315123	GG	AA	1946876674
SNP_P4_89125_54315177	NC_021165.1	Ca_kabuli_chr06	54315177	GG	AA	1946876676
SNP_P4_89126_54315183	NC_021165.1	Ca_kabuli_chr06	54315183	GG	AA	1946876678
SNP_P4_89127_54315184	NC_021165.1	Ca_kabuli_chr06	54315184	TT	CC	1946876680
SNP_P4_89128_54315192	NC_021165.1	Ca_kabuli_chr06	54315192	GG	AA	1946876682
SNP_P4_89129_54315198	NC_021165.1	Ca_kabuli_chr06	54315198	AA	TT	1946876684
SNP_P4_89130_54315467	NC_021165.1	Ca_kabuli_chr06	54315467	GG	TT	1946876686
SNP_P4_89132_54320882	NC_021165.1	Ca_kabuli_chr06	54320882	AA	CC	1946876688
SNP_P4_89133_54322501	NC_021165.1	Ca_kabuli_chr06	54322501	CC	TT	1946876690
SNP_P4_89134_54322504	NC_021165.1	Ca_kabuli_chr06	54322504	CC	TT	1946876692
SNP_P4_89135_54322535	NC_021165.1	Ca_kabuli_chr06	54322535	TT	CC	1946876694
SNP_P4_89136_54322539	NC_021165.1	Ca_kabuli_chr06	54322539	AA	GG	1946876696
SNP_P4_89137_54322570	NC_021165.1	Ca_kabuli_chr06	54322570	CC	TT	1946876698
SNP_P4_89138_54323129	NC_021165.1	Ca_kabuli_chr06	54323129	AA	GG	1946876700
SNP_P4_89139_54323137	NC_021165.1	Ca_kabuli_chr06	54323137	CC	TT	1946876703
SNP_P4_89140_54323139	NC_021165.1	Ca_kabuli_chr06	54323139	CC	AA	1946876705
SNP_P4_89141_54323261	NC_021165.1	Ca_kabuli_chr06	54323261	GG	TT	1946876707
SNP_P4_89142_54323360	NC_021165.1	Ca_kabuli_chr06	54323360	GG	AA	1946876709
SNP_P4_89143_54323612	NC_021165.1	Ca_kabuli_chr06	54323612	TT	CC	1946876711
SNP_P4_89144_54323683	NC_021165.1	Ca_kabuli_chr06	54323683	TT	CC	1946876713
SNP_P4_89145_54324123	NC_021165.1	Ca_kabuli_chr06	54324123	AA	GG	1946876715
SNP_P4_89146_54324130	NC_021165.1	Ca_kabuli_chr06	54324130	TT	CC	1946876717

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_89148_54333829	NC_021165.1	Ca_kabuli_chr06	54333829	CC	TT	1946876721
SNP_P4_89149_54333945	NC_021165.1	Ca_kabuli_chr06	54333945	AA	GG	1946876723
SNP_P4_89150_54335163	NC_021165.1	Ca_kabuli_chr06	54335163	GG	TT	1946876725
SNP_P4_89151_54335892	NC_021165.1	Ca_kabuli_chr06	54335892	CC	TT	1946876727
SNP_P4_89152_54336071	NC_021165.1	Ca_kabuli_chr06	54336071	CC	GG	1946876729
SNP_P4_89153_54338661	NC_021165.1	Ca_kabuli_chr06	54338661	GG	AA	1946876731
SNP_P4_89154_54338910	NC_021165.1	Ca_kabuli_chr06	54338910	TT	AA	1946876733
SNP_P4_89155_54338969	NC_021165.1	Ca_kabuli_chr06	54338969	TT	CC	1946876736
SNP_P4_89156_54338987	NC_021165.1	Ca_kabuli_chr06	54338987	TT	GG	1946876738
SNP_P4_89157_54339144	NC_021165.1	Ca_kabuli_chr06	54339144	AA	GG	1946876740
SNP_P4_89158_54340047	NC_021165.1	Ca_kabuli_chr06	54340047	CC	TT	1946876742
SNP_P4_89159_54340402	NC_021165.1	Ca_kabuli_chr06	54340402	AA	GG	1946876744
SNP_P4_89160_54340466	NC_021165.1	Ca_kabuli_chr06	54340466	TT	CC	1946876746
SNP_P4_89161_54340467	NC_021165.1	Ca_kabuli_chr06	54340467	CC	TT	1946876749
SNP_P4_89162_54341482	NC_021165.1	Ca_kabuli_chr06	54341482	CC	GG	1946876751
SNP_P4_89163_54341588	NC_021165.1	Ca_kabuli_chr06	54341588	TT	CC	1946876753
SNP_P4_89164_54341596	NC_021165.1	Ca_kabuli_chr06	54341596	GG	AA	1946876755
SNP_P4_89165_54342417	NC_021165.1	Ca_kabuli_chr06	54342417	AA	CC	1946876757
SNP_P4_89166_54342611	NC_021165.1	Ca_kabuli_chr06	54342611	TT	CC	1946876759
SNP_P4_89167_54342615	NC_021165.1	Ca_kabuli_chr06	54342615	CC	TT	1946876761
SNP_P4_89168_54343046	NC_021165.1	Ca_kabuli_chr06	54343046	TT	CC	1946876763
SNP_P4_89169_54343329	NC_021165.1	Ca_kabuli_chr06	54343329	TT	CC	1946876765
SNP_P4_89170_54343379	NC_021165.1	Ca_kabuli_chr06	54343379	TT	AA	1946876767
SNP_P4_89171_54343382	NC_021165.1	Ca_kabuli_chr06	54343382	GG	AA	1946876769
SNP_P4_89173_54344165	NC_021165.1	Ca_kabuli_chr06	54344165	CC	TT	1946876771
SNP_P4_89174_54344254	NC_021165.1	Ca_kabuli_chr06	54344254	GG	AA	1946876773
SNP_P4_89175_54345634	NC_021165.1	Ca_kabuli_chr06	54345634	TT	AA	1946876775
SNP_P4_89176_54345664	NC_021165.1	Ca_kabuli_chr06	54345664	CC	AA	1946876776
SNP_P4_89177_54345694	NC_021165.1	Ca_kabuli_chr06	54345694	TT	CC	1946876778
SNP_P4_89178_54345711	NC_021165.1	Ca_kabuli_chr06	54345711	GG	AA	1946876780
SNP_P4_89179_54348867	NC_021165.1	Ca_kabuli_chr06	54348867	TT	CC	1946876782
SNP_P4_89180_54349125	NC_021165.1	Ca_kabuli_chr06	54349125	AA	CC	1946876784
SNP_P4_89181_54349891	NC_021165.1	Ca_kabuli_chr06	54349891	TT	GG	1946876786
SNP_P4_89182_54353579	NC_021165.1	Ca_kabuli_chr06	54353579	TT	AA	1946876788
SNP_P4_89183_54353603	NC_021165.1	Ca_kabuli_chr06	54353603	AA	GG	1946876790
SNP_P4_89184_54353614	NC_021165.1	Ca_kabuli_chr06	54353614	TT	CC	1946876792
SNP_P4_89185_54353624	NC_021165.1	Ca_kabuli_chr06	54353624	GG	CC	1946876794
SNP_P4_89186_54353821	NC_021165.1	Ca_kabuli_chr06	54353821	GG	TT	1946876796
SNP_P4_89187_54354063	NC_021165.1	Ca_kabuli_chr06	54354063	TT	AA	1946876798
SNP_P4_89190_54355122	NC_021165.1	Ca_kabuli_chr06	54355122	AA	TT	1946876800
SNP_P4_89191_54355125	NC_021165.1	Ca_kabuli_chr06	54355125	TT	CC	1946876802

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_89193_54355420	NC_021165.1	Ca_kabuli_chr06	54355420	TT	CC	1946876806
SNP_P4_89194_54355427	NC_021165.1	Ca_kabuli_chr06	54355427	AA	GG	1946876808
SNP_P4_89195_54355786	NC_021165.1	Ca_kabuli_chr06	54355786	GG	AA	1946876810
SNP_P4_89196_54355813	NC_021165.1	Ca_kabuli_chr06	54355813	AA	GG	1946876811
SNP_P4_89197_54355962	NC_021165.1	Ca_kabuli_chr06	54355962	CC	TT	1946876813
SNP_P4_89198_54355965	NC_021165.1	Ca_kabuli_chr06	54355965	CC	TT	1946876815
SNP_P4_89199_54355971	NC_021165.1	Ca_kabuli_chr06	54355971	TT	AA	1946876817
SNP_P4_89200_54356472	NC_021165.1	Ca_kabuli_chr06	54356472	TT	CC	1946876819
SNP_P4_89201_54357400	NC_021165.1	Ca_kabuli_chr06	54357400	TT	AA	1946876821
SNP_P4_89202_54357519	NC_021165.1	Ca_kabuli_chr06	54357519	AA	GG	1946876823
SNP_P4_89203_54357576	NC_021165.1	Ca_kabuli_chr06	54357576	AA	TT	1946876825
SNP_P4_89204_54357605	NC_021165.1	Ca_kabuli_chr06	54357605	CC	AA	1946876827
SNP_P4_89205_54359869	NC_021165.1	Ca_kabuli_chr06	54359869	TT	GG	1946876829
SNP_P4_89207_54360866	NC_021165.1	Ca_kabuli_chr06	54360866	TT	GG	1946876831
SNP_P4_89208_54361155	NC_021165.1	Ca_kabuli_chr06	54361155	TT	CC	1946876833
SNP_P4_89209_54362257	NC_021165.1	Ca_kabuli_chr06	54362257	AA	GG	1946876835
SNP_P4_89210_54362832	NC_021165.1	Ca_kabuli_chr06	54362832	CC	TT	1946876836
SNP_P4_89211_54362881	NC_021165.1	Ca_kabuli_chr06	54362881	AA	GG	1946876838
SNP_P4_89212_54362892	NC_021165.1	Ca_kabuli_chr06	54362892	AA	GG	1946876840
SNP_P4_89213_54362898	NC_021165.1	Ca_kabuli_chr06	54362898	TT	CC	1946876842
SNP_P4_89214_54362910	NC_021165.1	Ca_kabuli_chr06	54362910	GG	AA	1946876844
SNP_P4_89215_54363197	NC_021165.1	Ca_kabuli_chr06	54363197	TT	GG	1946876846
SNP_P4_89216_54363691	NC_021165.1	Ca_kabuli_chr06	54363691	AA	GG	1946876848
SNP_P4_89217_54363693	NC_021165.1	Ca_kabuli_chr06	54363693	AA	GG	1946876850
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SNP_P4_89219_54363710	NC_021165.1	Ca_kabuli_chr06	54363710	CC	TT	1946876854
SNP_P4_89220_54363936	NC_021165.1	Ca_kabuli_chr06	54363936	TT	GG	1946876855
SNP_P4_89222_54365710	NC_021165.1	Ca_kabuli_chr06	54365710	CC	TT	1946876857
SNP_P4_89223_54365712	NC_021165.1	Ca_kabuli_chr06	54365712	GG	AA	1946876859
SNP_P4_89224_54365721	NC_021165.1	Ca_kabuli_chr06	54365721	GG	CC	1946876861
SNP_P4_89225_54365770	NC_021165.1	Ca_kabuli_chr06	54365770	AA	GG	1946876863
SNP_P4_89226_54365896	NC_021165.1	Ca_kabuli_chr06	54365896	GG	CC	1946876865
SNP_P4_89227_54365918	NC_021165.1	Ca_kabuli_chr06	54365918	TT	AA	1946876867
SNP_P4_89229_54680933	NC_021165.1	Ca_kabuli_chr06	54680933	GG	AA	1946876869
SNP_P4_89230_54680985	NC_021165.1	Ca_kabuli_chr06	54680985	AA	CC	1946876870
SNP_P4_89231_54681289	NC_021165.1	Ca_kabuli_chr06	54681289	AA	CC	1946876872
SNP_P4_89232_54681291	NC_021165.1	Ca_kabuli_chr06	54681291	TT	GG	1946876874
SNP_P4_89233_54681386	NC_021165.1	Ca_kabuli_chr06	54681386	AA	CC	1946876876
SNP_P4_89235_54720435	NC_021165.1	Ca_kabuli_chr06	54720435	GG	CC	1946876878
SNP_P4_89236_54720790	NC_021165.1	Ca_kabuli_chr06	54720790	TT	CC	1946876880
SNP_P4_89237_54754673	NC_021165.1	Ca_kabuli_chr06	54754673	AA	GG	1946876882

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_89240_54754859	NC_021165.1	Ca_kabuli_chr06	54754859	AA	GG	1946876886
SNP_P4_89241_54754886	NC_021165.1	Ca_kabuli_chr06	54754886	TT	GG	1946876888
SNP_P4_89242_54754890	NC_021165.1	Ca_kabuli_chr06	54754890	AA	CC	1946876890
SNP_P4_89243_54754922	NC_021165.1	Ca_kabuli_chr06	54754922	GG	AA	1946876892
SNP_P4_89244_54755368	NC_021165.1	Ca_kabuli_chr06	54755368	AA	TT	1946876894
SNP_P4_89245_54766774	NC_021165.1	Ca_kabuli_chr06	54766774	AA	CC	1946876895
SNP_P4_89246_54792476	NC_021165.1	Ca_kabuli_chr06	54792476	GG	AA	1946876897
SNP_P4_89247_54792784	NC_021165.1	Ca_kabuli_chr06	54792784	TT	AA	1946876899
SNP_P4_89248_54792817	NC_021165.1	Ca_kabuli_chr06	54792817	CC	GG	1946876901
SNP_P4_89249_54792821	NC_021165.1	Ca_kabuli_chr06	54792821	GG	TT	1946876903
SNP_P4_89250_54807622	NC_021165.1	Ca_kabuli_chr06	54807622	GG	AA	1946876905
SNP_P4_89251_54831150	NC_021165.1	Ca_kabuli_chr06	54831150	AA	GG	1946876907
SNP_P4_89252_54843047	NC_021165.1	Ca_kabuli_chr06	54843047	CC	TT	1946876909
SNP_P4_89253_54868793	NC_021165.1	Ca_kabuli_chr06	54868793	TT	GG	1946876911
SNP_P4_89254_54869227	NC_021165.1	Ca_kabuli_chr06	54869227	CC	TT	1946876912
SNP_P4_89255_54882563	NC_021165.1	Ca_kabuli_chr06	54882563	GG	TT	1946876914
SNP_P4_89256_54882585	NC_021165.1	Ca_kabuli_chr06	54882585	AA	GG	1946876916
SNP_P4_89257_54883777	NC_021165.1	Ca_kabuli_chr06	54883777	CC	GG	1946876918
SNP_P4_89258_54883818	NC_021165.1	Ca_kabuli_chr06	54883818	TT	GG	1946876920
SNP_P4_89259_54884120	NC_021165.1	Ca_kabuli_chr06	54884120	GG	AA	1946876922
SNP_P4_89260_54884235	NC_021165.1	Ca_kabuli_chr06	54884235	TT	GG	1946876924
SNP_P4_89261_54886705	NC_021165.1	Ca_kabuli_chr06	54886705	AA	GG	1946876926
SNP_P4_89262_54886715	NC_021165.1	Ca_kabuli_chr06	54886715	CC	TT	1946876927
SNP_P4_89263_54886733	NC_021165.1	Ca_kabuli_chr06	54886733	AA	GG	1946876929
SNP_P4_89264_54886736	NC_021165.1	Ca_kabuli_chr06	54886736	GG	AA	1946876931
SNP_P4_89265_54886832	NC_021165.1	Ca_kabuli_chr06	54886832	GG	AA	1946876933
SNP_P4_89266_54886877	NC_021165.1	Ca_kabuli_chr06	54886877	GG	AA	1946876935
SNP_P4_89267_54887103	NC_021165.1	Ca_kabuli_chr06	54887103	TT	CC	1946876937
SNP_P4_89268_54887202	NC_021165.1	Ca_kabuli_chr06	54887202	CC	TT	1946876939
SNP_P4_89269_54889106	NC_021165.1	Ca_kabuli_chr06	54889106	CC	TT	1946876941
SNP_P4_89270_54889112	NC_021165.1	Ca_kabuli_chr06	54889112	GG	AA	1946876943
SNP_P4_89271_54913474	NC_021165.1	Ca_kabuli_chr06	54913474	TT	CC	1946876945
SNP_P4_89272_54933189	NC_021165.1	Ca_kabuli_chr06	54933189	CC	TT	1946876947
SNP_P4_89273_54933290	NC_021165.1	Ca_kabuli_chr06	54933290	CC	TT	1946876949
SNP_P4_89275_54933294	NC_021165.1	Ca_kabuli_chr06	54933294	TT	CC	1946876951
SNP_P4_89276_54933329	NC_021165.1	Ca_kabuli_chr06	54933329	AA	GG	1946876953
SNP_P4_89278_54933522	NC_021165.1	Ca_kabuli_chr06	54933522	GG	TT	1946876955
SNP_P4_89280_54933646	NC_021165.1	Ca_kabuli_chr06	54933646	TT	AA	1946876957
SNP_P4_89281_54934216	NC_021165.1	Ca_kabuli_chr06	54934216	TT	CC	1946876959
SNP_P4_89282_54934232	NC_021165.1	Ca_kabuli_chr06	54934232	CC	TT	1946876960
SNP_P4_89283_54934624	NC_021165.1	Ca_kabuli_chr06	54934624	CC	TT	1946876962

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_89285_54936083	NC_021165.1	Ca_kabuli_chr06	54936083	CC	GG	1946876966
SNP_P4_89286_54936090	NC_021165.1	Ca_kabuli_chr06	54936090	TT	CC	1946876968
SNP_P4_89287_54938304	NC_021165.1	Ca_kabuli_chr06	54938304	TT	CC	1946876970
SNP_P4_89288_54938388	NC_021165.1	Ca_kabuli_chr06	54938388	GG	AA	1946876972
SNP_P4_89289_54938415	NC_021165.1	Ca_kabuli_chr06	54938415	GG	AA	1946876975
SNP_P4_89290_54938660	NC_021165.1	Ca_kabuli_chr06	54938660	TT	CC	1946876977
SNP_P4_89291_54938803	NC_021165.1	Ca_kabuli_chr06	54938803	AA	GG	1946876979
SNP_P4_89292_54938869	NC_021165.1	Ca_kabuli_chr06	54938869	GG	AA	1946876981
SNP_P4_89293_54938888	NC_021165.1	Ca_kabuli_chr06	54938888	CC	TT	1946876983
SNP_P4_89294_54938908	NC_021165.1	Ca_kabuli_chr06	54938908	GG	TT	1946876985
SNP_P4_89295_54938937	NC_021165.1	Ca_kabuli_chr06	54938937	AA	CC	1946876987
SNP_P4_89296_54942105	NC_021165.1	Ca_kabuli_chr06	54942105	CC	TT	1946876989
SNP_P4_89298_54964385	NC_021165.1	Ca_kabuli_chr06	54964385	AA	GG	1946876991
SNP_P4_89299_54969033	NC_021165.1	Ca_kabuli_chr06	54969033	AA	CC	1946876993
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SNP_P4_89301_55004069	NC_021165.1	Ca_kabuli_chr06	55004069	AA	GG	1946876997
SNP_P4_89302_55004072	NC_021165.1	Ca_kabuli_chr06	55004072	AA	GG	1946876999
SNP_P4_89303_55004114	NC_021165.1	Ca_kabuli_chr06	55004114	CC	TT	1946877001
SNP_P4_89304_55015589	NC_021165.1	Ca_kabuli_chr06	55015589	TT	AA	1946877003
SNP_P4_89305_55016561	NC_021165.1	Ca_kabuli_chr06	55016561	GG	AA	1946877005
SNP_P4_89306_55020198	NC_021165.1	Ca_kabuli_chr06	55020198	CC	TT	1946877007
SNP_P4_89307_55111662	NC_021165.1	Ca_kabuli_chr06	55111662	CC	TT	1946877009
SNP_P4_89308_55112853	NC_021165.1	Ca_kabuli_chr06	55112853	TT	GG	1946877011
SNP_P4_89309_55113130	NC_021165.1	Ca_kabuli_chr06	55113130	AA	GG	1946877013
SNP_P4_89310_55113309	NC_021165.1	Ca_kabuli_chr06	55113309	TT	GG	1946877014
SNP_P4_89311_55113355	NC_021165.1	Ca_kabuli_chr06	55113355	CC	TT	1946877016
SNP_P4_89312_55113478	NC_021165.1	Ca_kabuli_chr06	55113478	AA	GG	1946877018
SNP_P4_89313_55113511	NC_021165.1	Ca_kabuli_chr06	55113511	GG	TT	1946877020
SNP_P4_89314_55113524	NC_021165.1	Ca_kabuli_chr06	55113524	AA	GG	1946877022
SNP_P4_89315_55113530	NC_021165.1	Ca_kabuli_chr06	55113530	TT	CC	1946877024
SNP_P4_89316_55113542	NC_021165.1	Ca_kabuli_chr06	55113542	AA	CC	1946877026
SNP_P4_89317_55113563	NC_021165.1	Ca_kabuli_chr06	55113563	TT	CC	1946877028
SNP_P4_89318_55139396	NC_021165.1	Ca_kabuli_chr06	55139396	AA	CC	1946877030
SNP_P4_89320_55156015	NC_021165.1	Ca_kabuli_chr06	55156015	CC	TT	1946877032
SNP_P4_89321_55156117	NC_021165.1	Ca_kabuli_chr06	55156117	GG	AA	1946877034
SNP_P4_89322_55162570	NC_021165.1	Ca_kabuli_chr06	55162570	AA	GG	1946877036
SNP_P4_89323_55163069	NC_021165.1	Ca_kabuli_chr06	55163069	GG	CC	1946877037
SNP_P4_89324_55229666	NC_021165.1	Ca_kabuli_chr06	55229666	CC	TT	1946877039
SNP_P4_89325_55279325	NC_021165.1	Ca_kabuli_chr06	55279325	TT	CC	1946877041
SNP_P4_89326_55342477	NC_021165.1	Ca_kabuli_chr06	55342477	CC	TT	1946877043
SNP_P4_89327_55345396	NC_021165.1	Ca_kabuli_chr06	55345396	TT	GG	1946877045

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_89329_55345450	NC_021165.1	Ca_kabuli_chr06	55345450	AA	GG	1946877049
SNP_P4_89330_55345458	NC_021165.1	Ca_kabuli_chr06	55345458	CC	GG	1946877051
SNP_P4_89331_55345839	NC_021165.1	Ca_kabuli_chr06	55345839	TT	CC	1946877053
SNP_P4_89332_55347975	NC_021165.1	Ca_kabuli_chr06	55347975	AA	GG	1946877055
SNP_P4_89333_55348163	NC_021165.1	Ca_kabuli_chr06	55348163	TT	CC	1946877057
SNP_P4_89334_55350443	NC_021165.1	Ca_kabuli_chr06	55350443	CC	AA	1946877059
SNP_P4_89335_55359915	NC_021165.1	Ca_kabuli_chr06	55359915	CC	TT	1946877061
SNP_P4_89336_55399737	NC_021165.1	Ca_kabuli_chr06	55399737	TT	AA	1946877063
SNP_P4_89337_55399764	NC_021165.1	Ca_kabuli_chr06	55399764	CC	TT	1946877065
SNP_P4_89338_55399783	NC_021165.1	Ca_kabuli_chr06	55399783	TT	AA	1946877067
SNP_P4_89339_55399785	NC_021165.1	Ca_kabuli_chr06	55399785	TT	AA	1946877069
SNP_P4_89340_55399918	NC_021165.1	Ca_kabuli_chr06	55399918	CC	TT	1946877071
SNP_P4_89341_55399955	NC_021165.1	Ca_kabuli_chr06	55399955	GG	AA	1946877073
SNP_P4_89342_55431499	NC_021165.1	Ca_kabuli_chr06	55431499	AA	GG	1946877075
SNP_P4_89343_55445420	NC_021165.1	Ca_kabuli_chr06	55445420	AA	CC	1946877077
SNP_P4_89344_55445551	NC_021165.1	Ca_kabuli_chr06	55445551	GG	TT	1946877079
SNP_P4_89346_55445679	NC_021165.1	Ca_kabuli_chr06	55445679	TT	AA	1946877081
SNP_P4_89347_55445695	NC_021165.1	Ca_kabuli_chr06	55445695	TT	GG	1946877083
SNP_P4_89348_55445768	NC_021165.1	Ca_kabuli_chr06	55445768	TT	GG	1946877085
SNP_P4_89349_55445817	NC_021165.1	Ca_kabuli_chr06	55445817	GG	AA	1946877087
SNP_P4_89351_55446198	NC_021165.1	Ca_kabuli_chr06	55446198	TT	CC	1946877089
SNP_P4_89352_55446235	NC_021165.1	Ca_kabuli_chr06	55446235	GG	AA	1946877091
SNP_P4_89353_55446294	NC_021165.1	Ca_kabuli_chr06	55446294	GG	AA	1946877093
SNP_P4_89354_55446331	NC_021165.1	Ca_kabuli_chr06	55446331	CC	GG	1946877095
SNP_P4_89355_55446339	NC_021165.1	Ca_kabuli_chr06	55446339	GG	AA	1946877097
SNP_P4_89356_55446365	NC_021165.1	Ca_kabuli_chr06	55446365	AA	GG	1946877099
SNP_P4_89357_55446366	NC_021165.1	Ca_kabuli_chr06	55446366	GG	AA	1946877101
SNP_P4_89358_55446400	NC_021165.1	Ca_kabuli_chr06	55446400	CC	AA	1946877103
SNP_P4_89360_55450679	NC_021165.1	Ca_kabuli_chr06	55450679	AA	TT	1946877105
SNP_P4_89361_55450680	NC_021165.1	Ca_kabuli_chr06	55450680	AA	CC	1946877107
SNP_P4_89362_55450721	NC_021165.1	Ca_kabuli_chr06	55450721	TT	CC	1946877109
SNP_P4_89363_55452215	NC_021165.1	Ca_kabuli_chr06	55452215	AA	CC	1946877111
SNP_P4_89364_55455250	NC_021165.1	Ca_kabuli_chr06	55455250	AA	GG	1946877113
SNP_P4_89365_55455251	NC_021165.1	Ca_kabuli_chr06	55455251	TT	CC	1946877115
SNP_P4_89366_55455349	NC_021165.1	Ca_kabuli_chr06	55455349	GG	AA	1946877117
SNP_P4_89367_55455401	NC_021165.1	Ca_kabuli_chr06	55455401	AA	CC	1946877119
SNP_P4_89368_55455803	NC_021165.1	Ca_kabuli_chr06	55455803	CC	GG	1946877121
SNP_P4_89369_55455904	NC_021165.1	Ca_kabuli_chr06	55455904	CC	TT	1946877123
SNP_P4_89370_55455905	NC_021165.1	Ca_kabuli_chr06	55455905	GG	TT	1946877125
SNP_P4_89371_55455906	NC_021165.1	Ca_kabuli_chr06	55455906	TT	GG	1946877127
SNP_P4_89372_55460366	NC_021165.1	Ca_kabuli_chr06	55460366	TT	CC	1946877129

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_89377_55514986	NC_021165.1	Ca_kabuli_chr06	55514986	TT	CC	1946877133
SNP_P4_89378_55529888	NC_021165.1	Ca_kabuli_chr06	55529888	AA	CC	1946877135
SNP_P4_89379_55529890	NC_021165.1	Ca_kabuli_chr06	55529890	CC	AA	1946877137
SNP_P4_89380_55542066	NC_021165.1	Ca_kabuli_chr06	55542066	CC	TT	1946877139
SNP_P4_89381_55543706	NC_021165.1	Ca_kabuli_chr06	55543706	TT	AA	1946877141
SNP_P4_89382_55551093	NC_021165.1	Ca_kabuli_chr06	55551093	CC	GG	1946877143
SNP_P4_89383_55567216	NC_021165.1	Ca_kabuli_chr06	55567216	AA	GG	1946877145
SNP_P4_89385_55607439	NC_021165.1	Ca_kabuli_chr06	55607439	TT	GG	1946877147
SNP_P4_89386_55607454	NC_021165.1	Ca_kabuli_chr06	55607454	TT	CC	1946877149
SNP_P4_89387_55607457	NC_021165.1	Ca_kabuli_chr06	55607457	TT	CC	1946877151
SNP_P4_89388_55607786	NC_021165.1	Ca_kabuli_chr06	55607786	CC	TT	1946877153
SNP_P4_89389_55607862	NC_021165.1	Ca_kabuli_chr06	55607862	TT	AA	1946877155
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SNP_P4_89391_55607908	NC_021165.1	Ca_kabuli_chr06	55607908	TT	CC	1946877159
SNP_P4_89392_55609276	NC_021165.1	Ca_kabuli_chr06	55609276	CC	TT	1946877161
SNP_P4_89393_55609551	NC_021165.1	Ca_kabuli_chr06	55609551	AA	GG	1946877163
SNP_P4_89394_55609587	NC_021165.1	Ca_kabuli_chr06	55609587	CC	TT	1946877165
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SNP_P4_89397_55661941	NC_021165.1	Ca_kabuli_chr06	55661941	GG	AA	1946877171
SNP_P4_89398_55682820	NC_021165.1	Ca_kabuli_chr06	55682820	CC	GG	1946877173
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SNP_P4_89404_55727926	NC_021165.1	Ca_kabuli_chr06	55727926	GG	CC	1946877185
SNP_P4_89405_55752502	NC_021165.1	Ca_kabuli_chr06	55752502	GG	AA	1946877187
SNP_P4_89406_55754708	NC_021165.1	Ca_kabuli_chr06	55754708	AA	GG	1946877189
SNP_P4_89407_55754726	NC_021165.1	Ca_kabuli_chr06	55754726	AA	GG	1946877191
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SNP_P4_89409_55754792	NC_021165.1	Ca_kabuli_chr06	55754792	AA	CC	1946877195
SNP_P4_89410_55754795	NC_021165.1	Ca_kabuli_chr06	55754795	AA	TT	1946877197
SNP_P4_89412_55770399	NC_021165.1	Ca_kabuli_chr06	55770399	GG	AA	1946877199
SNP_P4_89413_55770422	NC_021165.1	Ca_kabuli_chr06	55770422	TT	CC	1946877201
SNP_P4_89414_55771091	NC_021165.1	Ca_kabuli_chr06	55771091	AA	GG	1946877203
SNP_P4_89417_55771600	NC_021165.1	Ca_kabuli_chr06	55771600	AA	GG	1946877205
SNP_P4_89419_55783029	NC_021165.1	Ca_kabuli_chr06	55783029	AA	GG	1946877207
SNP_P4_89420_55798649	NC_021165.1	Ca_kabuli_chr06	55798649	TT	AA	1946877209
SNP_P4_89421_55826298	NC_021165.1	Ca_kabuli_chr06	55826298	AA	GG	1946877211
SNP_P4_89422_55826329	NC_021165.1	Ca_kabuli_chr06	55826329	TT	AA	1946877213

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_89424_55826392	NC_021165.1	Ca_kabuli_chr06	55826392	TT	CC	1946877217
SNP_P4_89425_55826412	NC_021165.1	Ca_kabuli_chr06	55826412	CC	TT	1946877218
SNP_P4_89426_55826428	NC_021165.1	Ca_kabuli_chr06	55826428	CC	TT	1946877220
SNP_P4_89427_55826576	NC_021165.1	Ca_kabuli_chr06	55826576	TT	CC	1946877222
SNP_P4_89428_55826779	NC_021165.1	Ca_kabuli_chr06	55826779	TT	AA	1946877224
SNP_P4_89429_55826832	NC_021165.1	Ca_kabuli_chr06	55826832	GG	AA	1946877226
SNP_P4_89430_55826845	NC_021165.1	Ca_kabuli_chr06	55826845	GG	TT	1946877228
SNP_P4_89431_55826854	NC_021165.1	Ca_kabuli_chr06	55826854	GG	TT	1946877230
SNP_P4_89432_55826902	NC_021165.1	Ca_kabuli_chr06	55826902	CC	TT	1946877231
SNP_P4_89433_55833901	NC_021165.1	Ca_kabuli_chr06	55833901	TT	GG	1946877233
SNP_P4_89434_55833942	NC_021165.1	Ca_kabuli_chr06	55833942	AA	GG	1946877235
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SNP_P4_89439_55847923	NC_021165.1	Ca_kabuli_chr06	55847923	AA	CC	1946877243
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SNP_P4_89443_55890229	NC_021165.1	Ca_kabuli_chr06	55890229	TT	GG	1946877248
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SNP_P4_89446_55947042	NC_021165.1	Ca_kabuli_chr06	55947042	TT	CC	1946877254
SNP_P4_89447_55948499	NC_021165.1	Ca_kabuli_chr06	55948499	AA	GG	1946877256
SNP_P4_89448_55951307	NC_021165.1	Ca_kabuli_chr06	55951307	TT	CC	1946877258
SNP_P4_89449_55951360	NC_021165.1	Ca_kabuli_chr06	55951360	CC	TT	1946877260
SNP_P4_89450_55951361	NC_021165.1	Ca_kabuli_chr06	55951361	CC	TT	1946877262
SNP_P4_89451_55951647	NC_021165.1	Ca_kabuli_chr06	55951647	GG	AA	1946877264
SNP_P4_89452_55951687	NC_021165.1	Ca_kabuli_chr06	55951687	TT	CC	1946877266
SNP_P4_89453_55951689	NC_021165.1	Ca_kabuli_chr06	55951689	GG	AA	1946877268
SNP_P4_89454_55951702	NC_021165.1	Ca_kabuli_chr06	55951702	CC	AA	1946877270
SNP_P4_89455_55951717	NC_021165.1	Ca_kabuli_chr06	55951717	CC	TT	1946877272
SNP_P4_89456_55951748	NC_021165.1	Ca_kabuli_chr06	55951748	TT	CC	1946877274
SNP_P4_89457_55960161	NC_021165.1	Ca_kabuli_chr06	55960161	AA	GG	1946877276
SNP_P4_89458_55961293	NC_021165.1	Ca_kabuli_chr06	55961293	GG	CC	1946877278
SNP_P4_89459_55972776	NC_021165.1	Ca_kabuli_chr06	55972776	AA	GG	1946877280
SNP_P4_89460_55973048	NC_021165.1	Ca_kabuli_chr06	55973048	TT	CC	1946877281
SNP_P4_89462_56010077	NC_021165.1	Ca_kabuli_chr06	56010077	AA	GG	1946877283
SNP_P4_89463_56036585	NC_021165.1	Ca_kabuli_chr06	56036585	AA	GG	1946877285
SNP_P4_89464_56039269	NC_021165.1	Ca_kabuli_chr06	56039269	TT	CC	1946877287
SNP_P4_89465_56047227	NC_021165.1	Ca_kabuli_chr06	56047227	AA	GG	1946877289
SNP_P4_89466_56047552	NC_021165.1	Ca_kabuli_chr06	56047552	CC	TT	1946877291
SNP_P4_89467_56054446	NC_021165.1	Ca_kabuli_chr06	56054446	TT	CC	1946877293

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_89470_56081784	NC_021165.1	Ca_kabuli_chr06	56081784	CC	TT	1946877297
SNP_P4_89471_56082017	NC_021165.1	Ca_kabuli_chr06	56082017	AA	GG	1946877299
SNP_P4_89472_56082029	NC_021165.1	Ca_kabuli_chr06	56082029	AA	TT	1946877301
SNP_P4_89473_56087625	NC_021165.1	Ca_kabuli_chr06	56087625	AA	GG	1946877303
SNP_P4_89475_56087747	NC_021165.1	Ca_kabuli_chr06	56087747	CC	TT	1946877305
SNP_P4_89476_56136239	NC_021165.1	Ca_kabuli_chr06	56136239	AA	GG	1946877307
SNP_P4_89477_56136253	NC_021165.1	Ca_kabuli_chr06	56136253	AA	GG	1946877309
SNP_P4_89478_56138314	NC_021165.1	Ca_kabuli_chr06	56138314	GG	TT	1946877311
SNP_P4_89479_56138593	NC_021165.1	Ca_kabuli_chr06	56138593	GG	AA	1946877312
SNP_P4_89480_56138641	NC_021165.1	Ca_kabuli_chr06	56138641	CC	TT	1946877314
SNP_P4_89481_56138696	NC_021165.1	Ca_kabuli_chr06	56138696	GG	AA	1946877316
SNP_P4_89482_56138719	NC_021165.1	Ca_kabuli_chr06	56138719	TT	CC	1946877318
SNP_P4_89483_56138793	NC_021165.1	Ca_kabuli_chr06	56138793	TT	CC	1946877320
SNP_P4_89484_56138816	NC_021165.1	Ca_kabuli_chr06	56138816	TT	GG	1946877322
SNP_P4_89485_56138823	NC_021165.1	Ca_kabuli_chr06	56138823	TT	CC	1946877324
SNP_P4_89486_56138883	NC_021165.1	Ca_kabuli_chr06	56138883	GG	AA	1946877326
SNP_P4_89487_56138918	NC_021165.1	Ca_kabuli_chr06	56138918	TT	GG	1946877328
SNP_P4_89488_56138924	NC_021165.1	Ca_kabuli_chr06	56138924	GG	AA	1946877330
SNP_P4_89489_56139045	NC_021165.1	Ca_kabuli_chr06	56139045	AA	GG	1946877332
SNP_P4_89491_56139152	NC_021165.1	Ca_kabuli_chr06	56139152	AA	GG	1946877334
SNP_P4_89492_56139180	NC_021165.1	Ca_kabuli_chr06	56139180	TT	CC	1946877336
SNP_P4_89493_56139211	NC_021165.1	Ca_kabuli_chr06	56139211	TT	CC	1946877338
SNP_P4_89494_56139303	NC_021165.1	Ca_kabuli_chr06	56139303	AA	TT	1946877340
SNP_P4_89495_56139310	NC_021165.1	Ca_kabuli_chr06	56139310	AA	GG	1946877342
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SNP_P4_89498_56139376	NC_021165.1	Ca_kabuli_chr06	56139376	CC	TT	1946877348
SNP_P4_89499_56139395	NC_021165.1	Ca_kabuli_chr06	56139395	TT	GG	1946877350
SNP_P4_89500_56139456	NC_021165.1	Ca_kabuli_chr06	56139456	AA	GG	1946877352
SNP_P4_89501_56139457	NC_021165.1	Ca_kabuli_chr06	56139457	TT	GG	1946877353
SNP_P4_89502_56139459	NC_021165.1	Ca_kabuli_chr06	56139459	TT	GG	1946877355
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SNP_P4_89504_56145681	NC_021165.1	Ca_kabuli_chr06	56145681	CC	AA	1946877359
SNP_P4_89505_56176361	NC_021165.1	Ca_kabuli_chr06	56176361	CC	GG	1946877361
SNP_P4_89506_56187781	NC_021165.1	Ca_kabuli_chr06	56187781	TT	CC	1946877362
SNP_P4_89507_56187789	NC_021165.1	Ca_kabuli_chr06	56187789	AA	GG	1946877363
SNP_P4_89509_56193013	NC_021165.1	Ca_kabuli_chr06	56193013	AA	GG	1946877364
SNP_P4_89510_56193039	NC_021165.1	Ca_kabuli_chr06	56193039	AA	GG	1946877365
SNP_P4_89511_56193346	NC_021165.1	Ca_kabuli_chr06	56193346	CC	TT	1946877366
SNP_P4_89512_56193520	NC_021165.1	Ca_kabuli_chr06	56193520	AA	GG	1946877367
SNP_P4_89513_56216253	NC_021165.1	Ca_kabuli_chr06	56216253	CC	AA	1946877369

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_89515_56233636	NC_021165.1	Ca_kabuli_chr06	56233636	TT	CC	1946877372
SNP_P4_89516_56291664	NC_021165.1	Ca_kabuli_chr06	56291664	AA	GG	1946877374
SNP_P4_89517_56293091	NC_021165.1	Ca_kabuli_chr06	56293091	CC	TT	1946877376
SNP_P4_89518_56301898	NC_021165.1	Ca_kabuli_chr06	56301898	AA	GG	1946877378
SNP_P4_89519_56303100	NC_021165.1	Ca_kabuli_chr06	56303100	AA	TT	1946877380
SNP_P4_89520_56303103	NC_021165.1	Ca_kabuli_chr06	56303103	CC	GG	1946877382
SNP_P4_89521_56303217	NC_021165.1	Ca_kabuli_chr06	56303217	CC	TT	1946877384
SNP_P4_89522_56304463	NC_021165.1	Ca_kabuli_chr06	56304463	CC	TT	1946877386
SNP_P4_89523_56304474	NC_021165.1	Ca_kabuli_chr06	56304474	GG	AA	1946877388
SNP_P4_89524_56304475	NC_021165.1	Ca_kabuli_chr06	56304475	TT	AA	1946877390
SNP_P4_89525_56304482	NC_021165.1	Ca_kabuli_chr06	56304482	AA	TT	1946877392
SNP_P4_89526_56304500	NC_021165.1	Ca_kabuli_chr06	56304500	GG	AA	1946877394
SNP_P4_89527_56304506	NC_021165.1	Ca_kabuli_chr06	56304506	GG	AA	1946877395
SNP_P4_89529_56304629	NC_021165.1	Ca_kabuli_chr06	56304629	TT	CC	1946877397
SNP_P4_89530_56304688	NC_021165.1	Ca_kabuli_chr06	56304688	TT	CC	1946877399
SNP_P4_89531_56304716	NC_021165.1	Ca_kabuli_chr06	56304716	AA	GG	1946877401
SNP_P4_89532_56304753	NC_021165.1	Ca_kabuli_chr06	56304753	TT	CC	1946877403
SNP_P4_89533_56304780	NC_021165.1	Ca_kabuli_chr06	56304780	CC	GG	1946877405
SNP_P4_89534_56304804	NC_021165.1	Ca_kabuli_chr06	56304804	TT	CC	1946877407
SNP_P4_89535_56304851	NC_021165.1	Ca_kabuli_chr06	56304851	AA	CC	1946877409
SNP_P4_89536_56304874	NC_021165.1	Ca_kabuli_chr06	56304874	TT	AA	1946877411
SNP_P4_89537_56304916	NC_021165.1	Ca_kabuli_chr06	56304916	GG	AA	1946877413
SNP_P4_89538_56305005	NC_021165.1	Ca_kabuli_chr06	56305005	TT	CC	1946877414
SNP_P4_89539_56305017	NC_021165.1	Ca_kabuli_chr06	56305017	TT	CC	1946877416
SNP_P4_89540_56305049	NC_021165.1	Ca_kabuli_chr06	56305049	AA	TT	1946877418
SNP_P4_89541_56311156	NC_021165.1	Ca_kabuli_chr06	56311156	CC	AA	1946877420
SNP_P4_89542_56311163	NC_021165.1	Ca_kabuli_chr06	56311163	AA	GG	1946877422
SNP_P4_89543_56315569	NC_021165.1	Ca_kabuli_chr06	56315569	CC	GG	1946877424
SNP_P4_89544_56315574	NC_021165.1	Ca_kabuli_chr06	56315574	CC	TT	1946877426
SNP_P4_89545_56325287	NC_021165.1	Ca_kabuli_chr06	56325287	GG	AA	1946877428
SNP_P4_89546_56327509	NC_021165.1	Ca_kabuli_chr06	56327509	CC	AA	1946877430
SNP_P4_89547_56332882	NC_021165.1	Ca_kabuli_chr06	56332882	CC	TT	1946877432
SNP_P4_89548_56348954	NC_021165.1	Ca_kabuli_chr06	56348954	GG	AA	1946877434
SNP_P4_89549_56350686	NC_021165.1	Ca_kabuli_chr06	56350686	CC	TT	1946877436
SNP_P4_89550_56350698	NC_021165.1	Ca_kabuli_chr06	56350698	GG	CC	1946877438
SNP_P4_89551_56397689	NC_021165.1	Ca_kabuli_chr06	56397689	GG	AA	1946877439
SNP_P4_89552_56397694	NC_021165.1	Ca_kabuli_chr06	56397694	TT	CC	1946877441
SNP_P4_89553_56397942	NC_021165.1	Ca_kabuli_chr06	56397942	TT	CC	1946877443
SNP_P4_89554_56397973	NC_021165.1	Ca_kabuli_chr06	56397973	GG	AA	1946877445
SNP_P4_89555_56397986	NC_021165.1	Ca_kabuli_chr06	56397986	TT	CC	1946877447
SNP_P4_89556_56397993	NC_021165.1	Ca_kabuli_chr06	56397993	AA	GG	1946877449

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_89559_56423129	NC_021165.1	Ca_kabuli_chr06	56423129	CC	AA	1946877453
SNP_P4_89560_56457761	NC_021165.1	Ca_kabuli_chr06	56457761	GG	CC	1946877455
SNP_P4_89561_56464718	NC_021165.1	Ca_kabuli_chr06	56464718	CC	TT	1946877457
SNP_P4_89562_56464722	NC_021165.1	Ca_kabuli_chr06	56464722	CC	GG	1946877459
SNP_P4_89563_56464762	NC_021165.1	Ca_kabuli_chr06	56464762	GG	TT	1946877461
SNP_P4_89564_56464769	NC_021165.1	Ca_kabuli_chr06	56464769	CC	TT	1946877463
SNP_P4_89565_56464791	NC_021165.1	Ca_kabuli_chr06	56464791	TT	CC	1946877464
SNP_P4_89566_56479238	NC_021165.1	Ca_kabuli_chr06	56479238	GG	AA	1946877466
SNP_P4_89567_56479245	NC_021165.1	Ca_kabuli_chr06	56479245	GG	TT	1946877468
SNP_P4_89568_56502583	NC_021165.1	Ca_kabuli_chr06	56502583	AA	TT	1946877470
SNP_P4_89569_56502686	NC_021165.1	Ca_kabuli_chr06	56502686	CC	AA	1946877472
SNP_P4_89570_56502736	NC_021165.1	Ca_kabuli_chr06	56502736	TT	CC	1946877474
SNP_P4_89572_56503561	NC_021165.1	Ca_kabuli_chr06	56503561	AA	TT	1946877476
SNP_P4_89573_56503597	NC_021165.1	Ca_kabuli_chr06	56503597	AA	TT	1946877478
SNP_P4_89574_56503611	NC_021165.1	Ca_kabuli_chr06	56503611	AA	GG	1946877480
SNP_P4_89575_56503616	NC_021165.1	Ca_kabuli_chr06	56503616	GG	AA	1946877482
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SNP_P4_89578_56503683	NC_021165.1	Ca_kabuli_chr06	56503683	CC	TT	1946877487
SNP_P4_89579_56503687	NC_021165.1	Ca_kabuli_chr06	56503687	TT	CC	1946877489
SNP_P4_89580_56503716	NC_021165.1	Ca_kabuli_chr06	56503716	CC	AA	1946877491
SNP_P4_89581_56503720	NC_021165.1	Ca_kabuli_chr06	56503720	TT	GG	1946877493
SNP_P4_89583_56503874	NC_021165.1	Ca_kabuli_chr06	56503874	TT	AA	1946877495
SNP_P4_89584_56503880	NC_021165.1	Ca_kabuli_chr06	56503880	CC	AA	1946877497
SNP_P4_89585_56503888	NC_021165.1	Ca_kabuli_chr06	56503888	AA	CC	1946877499
SNP_P4_89586_56503913	NC_021165.1	Ca_kabuli_chr06	56503913	TT	CC	1946877501
SNP_P4_89587_56503916	NC_021165.1	Ca_kabuli_chr06	56503916	CC	TT	1946877503
SNP_P4_89588_56503941	NC_021165.1	Ca_kabuli_chr06	56503941	GG	AA	1946877504
SNP_P4_89591_56504050	NC_021165.1	Ca_kabuli_chr06	56504050	AA	GG	1946877506
SNP_P4_89592_56504061	NC_021165.1	Ca_kabuli_chr06	56504061	AA	TT	1946877508
SNP_P4_89593_56504070	NC_021165.1	Ca_kabuli_chr06	56504070	AA	GG	1946877510
SNP_P4_89594_56504080	NC_021165.1	Ca_kabuli_chr06	56504080	CC	TT	1946877512
SNP_P4_89595_56504088	NC_021165.1	Ca_kabuli_chr06	56504088	TT	CC	1946877514
SNP_P4_89596_56504090	NC_021165.1	Ca_kabuli_chr06	56504090	TT	CC	1946877516
SNP_P4_89597_56504092	NC_021165.1	Ca_kabuli_chr06	56504092	TT	AA	1946877518
SNP_P4_89599_56504237	NC_021165.1	Ca_kabuli_chr06	56504237	TT	CC	1946877520
SNP_P4_89600_56504316	NC_021165.1	Ca_kabuli_chr06	56504316	AA	GG	1946877522
SNP_P4_89601_56504334	NC_021165.1	Ca_kabuli_chr06	56504334	TT	AA	1946877523
SNP_P4_89602_56504348	NC_021165.1	Ca_kabuli_chr06	56504348	AA	CC	1946877525
SNP_P4_89603_56504355	NC_021165.1	Ca_kabuli_chr06	56504355	TT	AA	1946877527
SNP_P4_89604_56504541	NC_021165.1	Ca_kabuli_chr06	56504541	CC	GG	1946877529

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_89607_56504633	NC_021165.1	Ca_kabuli_chr06	56504633	GG	AA	1946877535
SNP_P4_89609_56504785	NC_021165.1	Ca_kabuli_chr06	56504785	TT	AA	1946877536
SNP_P4_89610_56504833	NC_021165.1	Ca_kabuli_chr06	56504833	GG	TT	1946877538
SNP_P4_89611_56505062	NC_021165.1	Ca_kabuli_chr06	56505062	TT	GG	1946877540
SNP_P4_89612_56505159	NC_021165.1	Ca_kabuli_chr06	56505159	CC	TT	1946877542
SNP_P4_89613_56505167	NC_021165.1	Ca_kabuli_chr06	56505167	CC	TT	1946877544
SNP_P4_89614_56505197	NC_021165.1	Ca_kabuli_chr06	56505197	AA	GG	1946877546
SNP_P4_89615_56505202	NC_021165.1	Ca_kabuli_chr06	56505202	AA	GG	1946877547
SNP_P4_89616_56505205	NC_021165.1	Ca_kabuli_chr06	56505205	TT	CC	1946877549
SNP_P4_89617_56505317	NC_021165.1	Ca_kabuli_chr06	56505317	CC	TT	1946877551
SNP_P4_89618_56505321	NC_021165.1	Ca_kabuli_chr06	56505321	TT	CC	1946877553
SNP_P4_89619_56505327	NC_021165.1	Ca_kabuli_chr06	56505327	CC	AA	1946877555
SNP_P4_89620_56505389	NC_021165.1	Ca_kabuli_chr06	56505389	TT	CC	1946877557
SNP_P4_89621_56505400	NC_021165.1	Ca_kabuli_chr06	56505400	TT	AA	1946877559
SNP_P4_89622_56505409	NC_021165.1	Ca_kabuli_chr06	56505409	AA	GG	1946877561
SNP_P4_89623_56505420	NC_021165.1	Ca_kabuli_chr06	56505420	GG	CC	1946877563
SNP_P4_89624_56505475	NC_021165.1	Ca_kabuli_chr06	56505475	AA	CC	1946877565
SNP_P4_89625_56505478	NC_021165.1	Ca_kabuli_chr06	56505478	GG	AA	1946877567
SNP_P4_89626_56505492	NC_021165.1	Ca_kabuli_chr06	56505492	GG	AA	1946877569
SNP_P4_89627_56505499	NC_021165.1	Ca_kabuli_chr06	56505499	CC	GG	1946877571
SNP_P4_89628_56505548	NC_021165.1	Ca_kabuli_chr06	56505548	TT	CC	1946877573
SNP_P4_89630_56506744	NC_021165.1	Ca_kabuli_chr06	56506744	AA	GG	1946877575
SNP_P4_89631_56506806	NC_021165.1	Ca_kabuli_chr06	56506806	GG	AA	1946877577
SNP_P4_89633_56506953	NC_021165.1	Ca_kabuli_chr06	56506953	CC	TT	1946877579
SNP_P4_89634_56506985	NC_021165.1	Ca_kabuli_chr06	56506985	TT	CC	1946877581
SNP_P4_89635_56507120	NC_021165.1	Ca_kabuli_chr06	56507120	GG	AA	1946877583
SNP_P4_89636_56507132	NC_021165.1	Ca_kabuli_chr06	56507132	TT	CC	1946877585
SNP_P4_89637_56507160	NC_021165.1	Ca_kabuli_chr06	56507160	AA	GG	1946877587
SNP_P4_89638_56507352	NC_021165.1	Ca_kabuli_chr06	56507352	CC	TT	1946877589
SNP_P4_89639_56507373	NC_021165.1	Ca_kabuli_chr06	56507373	CC	AA	1946877591
SNP_P4_89640_56507394	NC_021165.1	Ca_kabuli_chr06	56507394	TT	AA	1946877593
SNP_P4_89642_56507463	NC_021165.1	Ca_kabuli_chr06	56507463	CC	AA	1946877595
SNP_P4_89643_56507466	NC_021165.1	Ca_kabuli_chr06	56507466	GG	AA	1946877597
SNP_P4_89644_56507487	NC_021165.1	Ca_kabuli_chr06	56507487	TT	AA	1946877599
SNP_P4_89645_56507715	NC_021165.1	Ca_kabuli_chr06	56507715	TT	CC	1946877601
SNP_P4_89647_56507746	NC_021165.1	Ca_kabuli_chr06	56507746	TT	AA	1946877603
SNP_P4_89648_56507791	NC_021165.1	Ca_kabuli_chr06	56507791	CC	TT	1946877605
SNP_P4_89650_56507803	NC_021165.1	Ca_kabuli_chr06	56507803	GG	AA	1946877607
SNP_P4_89651_56507938	NC_021165.1	Ca_kabuli_chr06	56507938	TT	CC	1946877609
SNP_P4_89652_56508135	NC_021165.1	Ca_kabuli_chr06	56508135	GG	AA	1946877611

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_89654_56537529	NC_021165.1	Ca_kabuli_chr06	56537529	TT	GG	1946877615
SNP_P4_89655_56537530	NC_021165.1	Ca_kabuli_chr06	56537530	TT	GG	1946877617
SNP_P4_89656_56539284	NC_021165.1	Ca_kabuli_chr06	56539284	GG	AA	1946877619
SNP_P4_89657_56560731	NC_021165.1	Ca_kabuli_chr06	56560731	AA	GG	1946877621
SNP_P4_89659_56587860	NC_021165.1	Ca_kabuli_chr06	56587860	TT	CC	1946877623
SNP_P4_89660_56594715	NC_021165.1	Ca_kabuli_chr06	56594715	AA	CC	1946877625
SNP_P4_89661_56607470	NC_021165.1	Ca_kabuli_chr06	56607470	AA	CC	1946877627
SNP_P4_89662_56610206	NC_021165.1	Ca_kabuli_chr06	56610206	TT	CC	1946877629
SNP_P4_89663_56616019	NC_021165.1	Ca_kabuli_chr06	56616019	CC	AA	1946877631
SNP_P4_89664_56616893	NC_021165.1	Ca_kabuli_chr06	56616893	TT	CC	1946877633
SNP_P4_89665_56616927	NC_021165.1	Ca_kabuli_chr06	56616927	TT	AA	1946877635
SNP_P4_89666_56616928	NC_021165.1	Ca_kabuli_chr06	56616928	GG	CC	1946877637
SNP_P4_89667_56621648	NC_021165.1	Ca_kabuli_chr06	56621648	CC	GG	1946877639
SNP_P4_89668_56674052	NC_021165.1	Ca_kabuli_chr06	56674052	CC	TT	1946877641
SNP_P4_89669_56674693	NC_021165.1	Ca_kabuli_chr06	56674693	CC	TT	1946877642
SNP_P4_89671_56713005	NC_021165.1	Ca_kabuli_chr06	56713005	AA	GG	1946877645
SNP_P4_89672_56713020	NC_021165.1	Ca_kabuli_chr06	56713020	GG	TT	1946877647
SNP_P4_89673_56713316	NC_021165.1	Ca_kabuli_chr06	56713316	TT	CC	1946877649
SNP_P4_89674_56713374	NC_021165.1	Ca_kabuli_chr06	56713374	CC	TT	1946877651
SNP_P4_89677_56728535	NC_021165.1	Ca_kabuli_chr06	56728535	TT	AA	1946877653
SNP_P4_89678_56728595	NC_021165.1	Ca_kabuli_chr06	56728595	AA	GG	1946877655
SNP_P4_89680_56728926	NC_021165.1	Ca_kabuli_chr06	56728926	TT	CC	1946877657
SNP_P4_89682_56755391	NC_021165.1	Ca_kabuli_chr06	56755391	TT	CC	1946877659
SNP_P4_89684_56812676	NC_021165.1	Ca_kabuli_chr06	56812676	TT	AA	1946877661
SNP_P4_89685_56846146	NC_021165.1	Ca_kabuli_chr06	56846146	CC	AA	1946877663
SNP_P4_89686_56859370	NC_021165.1	Ca_kabuli_chr06	56859370	CC	TT	1946877665
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SNP_P4_89688_56877704	NC_021165.1	Ca_kabuli_chr06	56877704	CC	TT	1946877669
SNP_P4_89689_56878992	NC_021165.1	Ca_kabuli_chr06	56878992	TT	CC	1946877671
SNP_P4_89690_56887055	NC_021165.1	Ca_kabuli_chr06	56887055	GG	AA	1946877673
SNP_P4_89691_56907665	NC_021165.1	Ca_kabuli_chr06	56907665	CC	TT	1946877675
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SNP_P4_89693_56956125	NC_021165.1	Ca_kabuli_chr06	56956125	TT	CC	1946877679
SNP_P4_89694_56956151	NC_021165.1	Ca_kabuli_chr06	56956151	TT	CC	1946877681
SNP_P4_89695_56971150	NC_021165.1	Ca_kabuli_chr06	56971150	AA	TT	1946877683
SNP_P4_89696_56997270	NC_021165.1	Ca_kabuli_chr06	56997270	CC	TT	1946877685
SNP_P4_89697_57007837	NC_021165.1	Ca_kabuli_chr06	57007837	AA	GG	1946877687
SNP_P4_89699_57057848	NC_021165.1	Ca_kabuli_chr06	57057848	TT	GG	1946877689
SNP_P4_89700_57058868	NC_021165.1	Ca_kabuli_chr06	57058868	AA	CC	1946877691
SNP_P4_89701_57059715	NC_021165.1	Ca_kabuli_chr06	57059715	TT	GG	1946877693
SNP_P4_89702_57069570	NC_021165.1	Ca_kabuli_chr06	57069570	AA	TT	1946877695

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_89704_57090344	NC_021165.1	Ca_kabuli_chr06	57090344	TT	CC	1946877699
SNP_P4_89705_57090345	NC_021165.1	Ca_kabuli_chr06	57090345	AA	TT	1946877701
SNP_P4_89706_57093866	NC_021165.1	Ca_kabuli_chr06	57093866	GG	AA	1946877703
SNP_P4_89707_57093868	NC_021165.1	Ca_kabuli_chr06	57093868	CC	GG	1946877705
SNP_P4_89708_57100128	NC_021165.1	Ca_kabuli_chr06	57100128	TT	GG	1946877707
SNP_P4_89709_57100382	NC_021165.1	Ca_kabuli_chr06	57100382	AA	GG	1946877709
SNP_P4_89710_57110641	NC_021165.1	Ca_kabuli_chr06	57110641	CC	AA	1946877711
SNP_P4_89712_57128914	NC_021165.1	Ca_kabuli_chr06	57128914	CC	GG	1946877713
SNP_P4_89714_57133798	NC_021165.1	Ca_kabuli_chr06	57133798	AA	CC	1946877715
SNP_P4_89715_57133799	NC_021165.1	Ca_kabuli_chr06	57133799	TT	GG	1946877717
SNP_P4_89716_57135083	NC_021165.1	Ca_kabuli_chr06	57135083	AA	GG	1946877719
SNP_P4_89717_57136189	NC_021165.1	Ca_kabuli_chr06	57136189	GG	AA	1946877721
SNP_P4_89718_57136194	NC_021165.1	Ca_kabuli_chr06	57136194	GG	TT	1946877723
SNP_P4_89719_57138536	NC_021165.1	Ca_kabuli_chr06	57138536	TT	CC	1946877725
SNP_P4_89720_57138577	NC_021165.1	Ca_kabuli_chr06	57138577	GG	AA	1946877727
SNP_P4_89721_57143179	NC_021165.1	Ca_kabuli_chr06	57143179	TT	CC	1946877729
SNP_P4_89722_57143918	NC_021165.1	Ca_kabuli_chr06	57143918	TT	AA	1946877731
SNP_P4_89723_57144221	NC_021165.1	Ca_kabuli_chr06	57144221	TT	CC	1946877733
SNP_P4_89724_57144243	NC_021165.1	Ca_kabuli_chr06	57144243	TT	CC	1946877735
SNP_P4_89725_57144255	NC_021165.1	Ca_kabuli_chr06	57144255	AA	GG	1946877737
SNP_P4_89726_57144319	NC_021165.1	Ca_kabuli_chr06	57144319	TT	CC	1946877739
SNP_P4_89727_57144321	NC_021165.1	Ca_kabuli_chr06	57144321	TT	CC	1946877741
SNP_P4_89728_57155847	NC_021165.1	Ca_kabuli_chr06	57155847	AA	TT	1946877743
SNP_P4_89729_57160466	NC_021165.1	Ca_kabuli_chr06	57160466	AA	GG	1946877745
SNP_P4_89730_57160887	NC_021165.1	Ca_kabuli_chr06	57160887	TT	CC	1946877747
SNP_P4_89731_57160889	NC_021165.1	Ca_kabuli_chr06	57160889	TT	CC	1946877749
SNP_P4_89732_57172869	NC_021165.1	Ca_kabuli_chr06	57172869	GG	CC	1946877751
SNP_P4_89733_57172892	NC_021165.1	Ca_kabuli_chr06	57172892	TT	CC	1946877753
SNP_P4_89734_57172921	NC_021165.1	Ca_kabuli_chr06	57172921	CC	TT	1946877755
SNP_P4_89735_57173435	NC_021165.1	Ca_kabuli_chr06	57173435	GG	AA	1946877757
SNP_P4_89736_57173517	NC_021165.1	Ca_kabuli_chr06	57173517	TT	AA	1946877759
SNP_P4_89737_57173520	NC_021165.1	Ca_kabuli_chr06	57173520	CC	AA	1946877761
SNP_P4_89738_57173530	NC_021165.1	Ca_kabuli_chr06	57173530	GG	CC	1946877763
SNP_P4_89739_57173535	NC_021165.1	Ca_kabuli_chr06	57173535	CC	TT	1946877765
SNP_P4_89740_57173536	NC_021165.1	Ca_kabuli_chr06	57173536	AA	GG	1946877767
SNP_P4_89741_57173556	NC_021165.1	Ca_kabuli_chr06	57173556	GG	AA	1946877769
SNP_P4_89742_57173638	NC_021165.1	Ca_kabuli_chr06	57173638	AA	CC	1946877771
SNP_P4_89743_57173648	NC_021165.1	Ca_kabuli_chr06	57173648	CC	TT	1946877773
SNP_P4_89744_57173652	NC_021165.1	Ca_kabuli_chr06	57173652	AA	CC	1946877775
SNP_P4_89745_57173657	NC_021165.1	Ca_kabuli_chr06	57173657	AA	GG	1946877777
SNP_P4_89746_57173671	NC_021165.1	Ca_kabuli_chr06	57173671	AA	GG	1946877779

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_89748_57173688	NC_021165.1	Ca_kabuli_chr06	57173688	AA	CC	1946877783
SNP_P4_89749_57173695	NC_021165.1	Ca_kabuli_chr06	57173695	AA	GG	1946877785
SNP_P4_89750_57173882	NC_021165.1	Ca_kabuli_chr06	57173882	CC	GG	1946877786
SNP_P4_89751_57173945	NC_021165.1	Ca_kabuli_chr06	57173945	CC	GG	1946877788
SNP_P4_89752_57173946	NC_021165.1	Ca_kabuli_chr06	57173946	TT	AA	1946877790
SNP_P4_89753_57173979	NC_021165.1	Ca_kabuli_chr06	57173979	TT	AA	1946877792
SNP_P4_89754_57173987	NC_021165.1	Ca_kabuli_chr06	57173987	TT	GG	1946877794
SNP_P4_89755_57174350	NC_021165.1	Ca_kabuli_chr06	57174350	AA	GG	1946877796
SNP_P4_89756_57174363	NC_021165.1	Ca_kabuli_chr06	57174363	AA	GG	1946877798
SNP_P4_89757_57174368	NC_021165.1	Ca_kabuli_chr06	57174368	GG	TT	1946877800
SNP_P4_89758_57178318	NC_021165.1	Ca_kabuli_chr06	57178318	GG	TT	1946877802
SNP_P4_89759_57178351	NC_021165.1	Ca_kabuli_chr06	57178351	AA	GG	1946877804
SNP_P4_89760_57206686	NC_021165.1	Ca_kabuli_chr06	57206686	AA	TT	1946877806
SNP_P4_89761_57232099	NC_021165.1	Ca_kabuli_chr06	57232099	CC	TT	1946877808
SNP_P4_89762_57255367	NC_021165.1	Ca_kabuli_chr06	57255367	CC	TT	1946877810
SNP_P4_89763_57255393	NC_021165.1	Ca_kabuli_chr06	57255393	GG	AA	1946877812
SNP_P4_89764_57255394	NC_021165.1	Ca_kabuli_chr06	57255394	GG	AA	1946877814
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SNP_P4_89767_57256346	NC_021165.1	Ca_kabuli_chr06	57256346	CC	AA	1946877820
SNP_P4_89768_57256347	NC_021165.1	Ca_kabuli_chr06	57256347	TT	AA	1946877822
SNP_P4_89769_57256580	NC_021165.1	Ca_kabuli_chr06	57256580	CC	AA	1946877824
SNP_P4_89770_57409070	NC_021165.1	Ca_kabuli_chr06	57409070	CC	TT	1946877825
SNP_P4_89771_57425772	NC_021165.1	Ca_kabuli_chr06	57425772	AA	CC	1946877827
SNP_P4_89772_57426097	NC_021165.1	Ca_kabuli_chr06	57426097	CC	TT	1946877829
SNP_P4_89773_57441956	NC_021165.1	Ca_kabuli_chr06	57441956	TT	AA	1946877831
SNP_P4_89774_57460842	NC_021165.1	Ca_kabuli_chr06	57460842	GG	AA	1946877833
SNP_P4_89775_57460917	NC_021165.1	Ca_kabuli_chr06	57460917	GG	CC	1946877835
SNP_P4_89777_57471518	NC_021165.1	Ca_kabuli_chr06	57471518	GG	CC	1946877837
SNP_P4_89778_57487954	NC_021165.1	Ca_kabuli_chr06	57487954	TT	CC	1946877839
SNP_P4_89779_57488358	NC_021165.1	Ca_kabuli_chr06	57488358	TT	GG	1946877841
SNP_P4_89780_57488978	NC_021165.1	Ca_kabuli_chr06	57488978	TT	CC	1946877843
SNP_P4_89781_57490382	NC_021165.1	Ca_kabuli_chr06	57490382	GG	CC	1946877845
SNP_P4_89782_57490423	NC_021165.1	Ca_kabuli_chr06	57490423	TT	CC	1946877847
SNP_P4_89783_57491566	NC_021165.1	Ca_kabuli_chr06	57491566	GG	TT	1946877849
SNP_P4_89784_57528249	NC_021165.1	Ca_kabuli_chr06	57528249	AA	GG	1946877851
SNP_P4_89785_57545558	NC_021165.1	Ca_kabuli_chr06	57545558	AA	GG	1946877853
SNP_P4_89786_57554123	NC_021165.1	Ca_kabuli_chr06	57554123	CC	TT	1946877855
SNP_P4_89787_57568068	NC_021165.1	Ca_kabuli_chr06	57568068	TT	GG	1946877857
SNP_P4_89789_57608037	NC_021165.1	Ca_kabuli_chr06	57608037	GG	TT	1946877860
SNP_P4_89790_57608265	NC_021165.1	Ca_kabuli_chr06	57608265	GG	AA	1946877862

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_89792_57608318	NC_021165.1	Ca_kabuli_chr06	57608318	GG	CC	1946877866
SNP_P4_89793_57619092	NC_021165.1	Ca_kabuli_chr06	57619092	AA	TT	1946877868
SNP_P4_89794_57628013	NC_021165.1	Ca_kabuli_chr06	57628013	GG	AA	1946877870
SNP_P4_89795_57637372	NC_021165.1	Ca_kabuli_chr06	57637372	TT	CC	1946877872
SNP_P4_89796_57641566	NC_021165.1	Ca_kabuli_chr06	57641566	CC	AA	1946877874
SNP_P4_89798_57657651	NC_021165.1	Ca_kabuli_chr06	57657651	AA	CC	1946877876
SNP_P4_89799_57672618	NC_021165.1	Ca_kabuli_chr06	57672618	TT	AA	1946877878
SNP_P4_89800_57702981	NC_021165.1	Ca_kabuli_chr06	57702981	GG	TT	1946877880
SNP_P4_89801_57741896	NC_021165.1	Ca_kabuli_chr06	57741896	AA	GG	1946877882
SNP_P4_89802_57779073	NC_021165.1	Ca_kabuli_chr06	57779073	GG	AA	1946877884
SNP_P4_89804_57795920	NC_021165.1	Ca_kabuli_chr06	57795920	GG	AA	1946877886
SNP_P4_89805_57844983	NC_021165.1	Ca_kabuli_chr06	57844983	CC	TT	1946877888
SNP_P4_89806_57846699	NC_021165.1	Ca_kabuli_chr06	57846699	TT	AA	1946877890
SNP_P4_89807_57883989	NC_021165.1	Ca_kabuli_chr06	57883989	GG	AA	1946877892
SNP_P4_89809_57935810	NC_021165.1	Ca_kabuli_chr06	57935810	TT	GG	1946877894
SNP_P4_89810_57936057	NC_021165.1	Ca_kabuli_chr06	57936057	AA	GG	1946877896
SNP_P4_89811_57936059	NC_021165.1	Ca_kabuli_chr06	57936059	AA	GG	1946877898
SNP_P4_89812_57945330	NC_021165.1	Ca_kabuli_chr06	57945330	TT	AA	1946877900
SNP_P4_89813_57951710	NC_021165.1	Ca_kabuli_chr06	57951710	AA	TT	1946877903
SNP_P4_89814_57980293	NC_021165.1	Ca_kabuli_chr06	57980293	AA	GG	1946877905
SNP_P4_89815_57980311	NC_021165.1	Ca_kabuli_chr06	57980311	TT	CC	1946877907
SNP_P4_89816_57980316	NC_021165.1	Ca_kabuli_chr06	57980316	TT	AA	1946877909
SNP_P4_89817_57980321	NC_021165.1	Ca_kabuli_chr06	57980321	TT	CC	1946877911
SNP_P4_89818_57980348	NC_021165.1	Ca_kabuli_chr06	57980348	GG	AA	1946877913
SNP_P4_89819_57981132	NC_021165.1	Ca_kabuli_chr06	57981132	AA	TT	1946877915
SNP_P4_89821_58017545	NC_021165.1	Ca_kabuli_chr06	58017545	GG	TT	1946877917
SNP_P4_89822_58017780	NC_021165.1	Ca_kabuli_chr06	58017780	CC	AA	1946877919
SNP_P4_89823_58018910	NC_021165.1	Ca_kabuli_chr06	58018910	CC	AA	1946877921
SNP_P4_89824_58094129	NC_021165.1	Ca_kabuli_chr06	58094129	TT	CC	1946877923
SNP_P4_89825_58130207	NC_021165.1	Ca_kabuli_chr06	58130207	CC	TT	1946877925
SNP_P4_89826_58150946	NC_021165.1	Ca_kabuli_chr06	58150946	TT	AA	1946877927
SNP_P4_89827_58186753	NC_021165.1	Ca_kabuli_chr06	58186753	GG	AA	1946877929
SNP_P4_89829_58257069	NC_021165.1	Ca_kabuli_chr06	58257069	GG	AA	1946877931
SNP_P4_89832_58340194	NC_021165.1	Ca_kabuli_chr06	58340194	TT	CC	1946877933
SNP_P4_89833_58370060	NC_021165.1	Ca_kabuli_chr06	58370060	TT	CC	1946877935
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SNP_P4_89835_58373373	NC_021165.1	Ca_kabuli_chr06	58373373	CC	TT	1946877940
SNP_P4_89837_58401093	NC_021165.1	Ca_kabuli_chr06	58401093	CC	AA	1946877942
SNP_P4_89838_58404842	NC_021165.1	Ca_kabuli_chr06	58404842	AA	GG	1946877944
SNP_P4_89839_58405031	NC_021165.1	Ca_kabuli_chr06	58405031	TT	CC	1946877946
SNP_P4_89840_58409691	NC_021165.1	Ca_kabuli_chr06	58409691	TT	AA	1946877948

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_89842_58415105	NC_021165.1	Ca_kabuli_chr06	58415105	TT	AA	1946877952
SNP_P4_89843_58519327	NC_021165.1	Ca_kabuli_chr06	58519327	AA	GG	1946877954
SNP_P4_89844_58521364	NC_021165.1	Ca_kabuli_chr06	58521364	GG	AA	1946877956
SNP_P4_89845_58534910	NC_021165.1	Ca_kabuli_chr06	58534910	GG	AA	1946877958
SNP_P4_89846_58538185	NC_021165.1	Ca_kabuli_chr06	58538185	CC	TT	1946877960
SNP_P4_89848_58553095	NC_021165.1	Ca_kabuli_chr06	58553095	AA	TT	1946877962
SNP_P4_89849_58565789	NC_021165.1	Ca_kabuli_chr06	58565789	GG	AA	1946877964
SNP_P4_89850_58569469	NC_021165.1	Ca_kabuli_chr06	58569469	CC	AA	1946877966
SNP_P4_89851_58588040	NC_021165.1	Ca_kabuli_chr06	58588040	AA	TT	1946877968
SNP_P4_89855_58628812	NC_021165.1	Ca_kabuli_chr06	58628812	AA	TT	1946877970
SNP_P4_89856_58628816	NC_021165.1	Ca_kabuli_chr06	58628816	GG	AA	1946877972
SNP_P4_89857_58629491	NC_021165.1	Ca_kabuli_chr06	58629491	AA	GG	1946877974
SNP_P4_89858_58634795	NC_021165.1	Ca_kabuli_chr06	58634795	TT	CC	1946877976
SNP_P4_89859_58646428	NC_021165.1	Ca_kabuli_chr06	58646428	AA	GG	1946877978
SNP_P4_89860_58647248	NC_021165.1	Ca_kabuli_chr06	58647248	TT	GG	1946877980
SNP_P4_89861_58652192	NC_021165.1	Ca_kabuli_chr06	58652192	CC	TT	1946877982
SNP_P4_89862_58658219	NC_021165.1	Ca_kabuli_chr06	58658219	TT	AA	1946877984
SNP_P4_89863_58679850	NC_021165.1	Ca_kabuli_chr06	58679850	CC	TT	1946877986
SNP_P4_89864_58691110	NC_021165.1	Ca_kabuli_chr06	58691110	TT	GG	1946877988
SNP_P4_89865_58691111	NC_021165.1	Ca_kabuli_chr06	58691111	AA	GG	1946877990
SNP_P4_89866_58695319	NC_021165.1	Ca_kabuli_chr06	58695319	TT	CC	1946877992
SNP_P4_89867_58705923	NC_021165.1	Ca_kabuli_chr06	58705923	CC	TT	1946877994
SNP_P4_89868_58727781	NC_021165.1	Ca_kabuli_chr06	58727781	GG	AA	1946877996
SNP_P4_89869_58739789	NC_021165.1	Ca_kabuli_chr06	58739789	GG	TT	1946877998
SNP_P4_89870_58739877	NC_021165.1	Ca_kabuli_chr06	58739877	GG	TT	1946877999
SNP_P4_89872_58781646	NC_021165.1	Ca_kabuli_chr06	58781646	GG	AA	1946878001
SNP_P4_89874_58781690	NC_021165.1	Ca_kabuli_chr06	58781690	AA	TT	1946878003
SNP_P4_89875_58781702	NC_021165.1	Ca_kabuli_chr06	58781702	GG	AA	1946878005
SNP_P4_89876_58781720	NC_021165.1	Ca_kabuli_chr06	58781720	AA	GG	1946878007
SNP_P4_89877_58782003	NC_021165.1	Ca_kabuli_chr06	58782003	CC	GG	1946878009
SNP_P4_89878_58782013	NC_021165.1	Ca_kabuli_chr06	58782013	TT	AA	1946878011
SNP_P4_89879_58782573	NC_021165.1	Ca_kabuli_chr06	58782573	TT	GG	1946878013
SNP_P4_89880_58782595	NC_021165.1	Ca_kabuli_chr06	58782595	AA	GG	1946878015
SNP_P4_89881_58782599	NC_021165.1	Ca_kabuli_chr06	58782599	GG	AA	1946878017
SNP_P4_89883_58782767	NC_021165.1	Ca_kabuli_chr06	58782767	GG	AA	1946878019
SNP_P4_89885_58783145	NC_021165.1	Ca_kabuli_chr06	58783145	GG	AA	1946878021
SNP_P4_89886_58783420	NC_021165.1	Ca_kabuli_chr06	58783420	AA	TT	1946878023
SNP_P4_89887_58783421	NC_021165.1	Ca_kabuli_chr06	58783421	AA	TT	1946878025
SNP_P4_89888_58783440	NC_021165.1	Ca_kabuli_chr06	58783440	AA	GG	1946878027
SNP_P4_89890_58783892	NC_021165.1	Ca_kabuli_chr06	58783892	AA	TT	1946878029
SNP_P4_89891_58783893	NC_021165.1	Ca_kabuli_chr06	58783893	TT	CC	1946878031

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_89897_58785702	NC_021165.1	Ca_kabuli_chr06	58785702	TT	GG	1946878034
SNP_P4_89898_58785761	NC_021165.1	Ca_kabuli_chr06	58785761	CC	TT	1946878036
SNP_P4_89900_58786001	NC_021165.1	Ca_kabuli_chr06	58786001	TT	GG	1946878038
SNP_P4_89901_58786027	NC_021165.1	Ca_kabuli_chr06	58786027	TT	AA	1946878040
SNP_P4_89902_58786030	NC_021165.1	Ca_kabuli_chr06	58786030	AA	TT	1946878042
SNP_P4_89904_58786118	NC_021165.1	Ca_kabuli_chr06	58786118	GG	AA	1946878044
SNP_P4_89905_58786239	NC_021165.1	Ca_kabuli_chr06	58786239	TT	AA	1946878046
SNP_P4_89908_58787716	NC_021165.1	Ca_kabuli_chr06	58787716	GG	AA	1946878048
SNP_P4_89909_58788135	NC_021165.1	Ca_kabuli_chr06	58788135	AA	GG	1946878050
SNP_P4_89910_58788557	NC_021165.1	Ca_kabuli_chr06	58788557	AA	GG	1946878052
SNP_P4_89911_58788558	NC_021165.1	Ca_kabuli_chr06	58788558	TT	CC	1946878054
SNP_P4_89912_58788795	NC_021165.1	Ca_kabuli_chr06	58788795	GG	AA	1946878056
SNP_P4_89913_58789037	NC_021165.1	Ca_kabuli_chr06	58789037	TT	CC	1946878058
SNP_P4_89914_58789175	NC_021165.1	Ca_kabuli_chr06	58789175	GG	AA	1946878060
SNP_P4_89915_58789768	NC_021165.1	Ca_kabuli_chr06	58789768	AA	GG	1946878062
SNP_P4_89916_58790175	NC_021165.1	Ca_kabuli_chr06	58790175	AA	GG	1946878063
SNP_P4_89917_58790179	NC_021165.1	Ca_kabuli_chr06	58790179	CC	TT	1946878065
SNP_P4_89918_58790498	NC_021165.1	Ca_kabuli_chr06	58790498	TT	AA	1946878067
SNP_P4_89919_58790500	NC_021165.1	Ca_kabuli_chr06	58790500	CC	AA	1946878069
SNP_P4_89921_58790780	NC_021165.1	Ca_kabuli_chr06	58790780	GG	AA	1946878071
SNP_P4_89922_58790796	NC_021165.1	Ca_kabuli_chr06	58790796	TT	CC	1946878073
SNP_P4_89923_58790806	NC_021165.1	Ca_kabuli_chr06	58790806	AA	GG	1946878075
SNP_P4_89925_58794211	NC_021165.1	Ca_kabuli_chr06	58794211	CC	AA	1946878078
SNP_P4_89926_58794583	NC_021165.1	Ca_kabuli_chr06	58794583	CC	TT	1946878080
SNP_P4_89927_58794607	NC_021165.1	Ca_kabuli_chr06	58794607	AA	GG	1946878082
SNP_P4_89928_58794694	NC_021165.1	Ca_kabuli_chr06	58794694	CC	AA	1946878084
SNP_P4_89929_58799340	NC_021165.1	Ca_kabuli_chr06	58799340	CC	TT	1946878086
SNP_P4_89930_58799662	NC_021165.1	Ca_kabuli_chr06	58799662	GG	AA	1946878088
SNP_P4_89931_58799675	NC_021165.1	Ca_kabuli_chr06	58799675	TT	AA	1946878090
SNP_P4_89932_58800041	NC_021165.1	Ca_kabuli_chr06	58800041	AA	TT	1946878092
SNP_P4_89933_58800286	NC_021165.1	Ca_kabuli_chr06	58800286	CC	TT	1946878094
SNP_P4_89934_58800991	NC_021165.1	Ca_kabuli_chr06	58800991	CC	TT	1946878096
SNP_P4_89935_58800992	NC_021165.1	Ca_kabuli_chr06	58800992	TT	CC	1946878098
SNP_P4_89936_58801276	NC_021165.1	Ca_kabuli_chr06	58801276	GG	AA	1946878100
SNP_P4_89937_58801293	NC_021165.1	Ca_kabuli_chr06	58801293	GG	AA	1946878102
SNP_P4_89938_58801755	NC_021165.1	Ca_kabuli_chr06	58801755	CC	TT	1946878104
SNP_P4_89939_58802017	NC_021165.1	Ca_kabuli_chr06	58802017	TT	AA	1946878106
SNP_P4_89940_58802777	NC_021165.1	Ca_kabuli_chr06	58802777	TT	CC	1946878108
SNP_P4_89941_58802788	NC_021165.1	Ca_kabuli_chr06	58802788	TT	CC	1946878110
SNP_P4_89942_58802979	NC_021165.1	Ca_kabuli_chr06	58802979	GG	AA	1946878112
SNP_P4_89943_58803915	NC_021165.1	Ca_kabuli_chr06	58803915	CC	TT	1946878114

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_89945_58803919	NC_021165.1	Ca_kabuli_chr06	58803919	AA	GG	1946878117
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SNP_P4_89947_58804039	NC_021165.1	Ca_kabuli_chr06	58804039	TT	CC	1946878121
SNP_P4_89948_58804155	NC_021165.1	Ca_kabuli_chr06	58804155	CC	TT	1946878122
SNP_P4_89949_58804524	NC_021165.1	Ca_kabuli_chr06	58804524	GG	AA	1946878123
SNP_P4_89950_58805065	NC_021165.1	Ca_kabuli_chr06	58805065	CC	TT	1946878124
SNP_P4_89952_58805398	NC_021165.1	Ca_kabuli_chr06	58805398	AA	GG	1946878125
SNP_P4_89953_58805399	NC_021165.1	Ca_kabuli_chr06	58805399	AA	GG	1946878126
SNP_P4_89954_58805564	NC_021165.1	Ca_kabuli_chr06	58805564	AA	GG	1946878127
SNP_P4_89955_58805887	NC_021165.1	Ca_kabuli_chr06	58805887	GG	CC	1946878128
SNP_P4_89956_58805897	NC_021165.1	Ca_kabuli_chr06	58805897	AA	TT	1946878129
SNP_P4_89957_58806283	NC_021165.1	Ca_kabuli_chr06	58806283	CC	GG	1946878130
SNP_P4_89959_58807618	NC_021165.1	Ca_kabuli_chr06	58807618	AA	GG	1946878131
SNP_P4_89960_58807637	NC_021165.1	Ca_kabuli_chr06	58807637	AA	GG	1946878133
SNP_P4_89961_58807638	NC_021165.1	Ca_kabuli_chr06	58807638	GG	AA	1946878135
SNP_P4_89963_58808874	NC_021165.1	Ca_kabuli_chr06	58808874	AA	TT	1946878136
SNP_P4_89964_58811226	NC_021165.1	Ca_kabuli_chr06	58811226	GG	AA	1946878138
SNP_P4_89966_58811553	NC_021165.1	Ca_kabuli_chr06	58811553	TT	CC	1946878140
SNP_P4_89967_58811650	NC_021165.1	Ca_kabuli_chr06	58811650	AA	TT	1946878142
SNP_P4_89968_58813650	NC_021165.1	Ca_kabuli_chr06	58813650	GG	AA	1946878144
SNP_P4_89969_58813937	NC_021165.1	Ca_kabuli_chr06	58813937	CC	TT	1946878146
SNP_P4_89970_58813938	NC_021165.1	Ca_kabuli_chr06	58813938	GG	TT	1946878148
SNP_P4_89972_58816554	NC_021165.1	Ca_kabuli_chr06	58816554	AA	TT	1946878150
SNP_P4_89973_58817307	NC_021165.1	Ca_kabuli_chr06	58817307	AA	GG	1946878152
SNP_P4_89974_58817370	NC_021165.1	Ca_kabuli_chr06	58817370	CC	TT	1946878154
SNP_P4_89975_58817735	NC_021165.1	Ca_kabuli_chr06	58817735	CC	TT	1946878156
SNP_P4_89976_58817740	NC_021165.1	Ca_kabuli_chr06	58817740	AA	TT	1946878158
SNP_P4_89977_58817747	NC_021165.1	Ca_kabuli_chr06	58817747	AA	TT	1946878159
SNP_P4_89980_58819500	NC_021165.1	Ca_kabuli_chr06	58819500	TT	CC	1946878161
SNP_P4_89981_58819527	NC_021165.1	Ca_kabuli_chr06	58819527	TT	CC	1946878163
SNP_P4_89982_58819529	NC_021165.1	Ca_kabuli_chr06	58819529	CC	AA	1946878165
SNP_P4_89983_58819772	NC_021165.1	Ca_kabuli_chr06	58819772	CC	TT	1946878167
SNP_P4_89984_58819778	NC_021165.1	Ca_kabuli_chr06	58819778	TT	CC	1946878169
SNP_P4_89985_58822544	NC_021165.1	Ca_kabuli_chr06	58822544	TT	AA	1946878171
SNP_P4_89986_58823642	NC_021165.1	Ca_kabuli_chr06	58823642	AA	CC	1946878173
SNP_P4_89988_58823728	NC_021165.1	Ca_kabuli_chr06	58823728	GG	AA	1946878175
SNP_P4_89989_58823733	NC_021165.1	Ca_kabuli_chr06	58823733	CC	TT	1946878176
SNP_P4_89990_58826442	NC_021165.1	Ca_kabuli_chr06	58826442	CC	GG	1946878178
SNP_P4_89991_58826729	NC_021165.1	Ca_kabuli_chr06	58826729	AA	CC	1946878180
SNP_P4_89992_58826903	NC_021165.1	Ca_kabuli_chr06	58826903	CC	TT	1946878182
SNP_P4_89994_58827206	NC_021165.1	Ca_kabuli_chr06	58827206	AA	CC	1946878184

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_89996_58841568	NC_021165.1	Ca_kabuli_chr06	58841568	AA	GG	1946878188
SNP_P4_89999_58854303	NC_021165.1	Ca_kabuli_chr06	58854303	AA	GG	1946878190
SNP_P4_90000_58872005	NC_021165.1	Ca_kabuli_chr06	58872005	GG	CC	1946878192
SNP_P4_90005_58887017	NC_021165.1	Ca_kabuli_chr06	58887017	GG	TT	1946878193
SNP_P4_90006_58887055	NC_021165.1	Ca_kabuli_chr06	58887055	AA	TT	1946878195
SNP_P4_90007_58887356	NC_021165.1	Ca_kabuli_chr06	58887356	CC	TT	1946878197
SNP_P4_90008_58897252	NC_021165.1	Ca_kabuli_chr06	58897252	CC	TT	1946878199
SNP_P4_90009_58959709	NC_021165.1	Ca_kabuli_chr06	58959709	TT	AA	1946878201
SNP_P4_90010_59042449	NC_021165.1	Ca_kabuli_chr06	59042449	GG	AA	1946878203
SNP_P4_90011_59050250	NC_021165.1	Ca_kabuli_chr06	59050250	TT	GG	1946878205
SNP_P4_90012_59058564	NC_021165.1	Ca_kabuli_chr06	59058564	AA	TT	1946878207
SNP_P4_90013_59058577	NC_021165.1	Ca_kabuli_chr06	59058577	TT	AA	1946878209
SNP_P4_90014_59058580	NC_021165.1	Ca_kabuli_chr06	59058580	AA	CC	1946878211
SNP_P4_90015_59058643	NC_021165.1	Ca_kabuli_chr06	59058643	GG	AA	1946878213
SNP_P4_90016_59058650	NC_021165.1	Ca_kabuli_chr06	59058650	CC	AA	1946878215
SNP_P4_90018_59060216	NC_021165.1	Ca_kabuli_chr06	59060216	CC	TT	1946878216
SNP_P4_90019_59061201	NC_021165.1	Ca_kabuli_chr06	59061201	CC	TT	1946878218
SNP_P4_90020_59062839	NC_021165.1	Ca_kabuli_chr06	59062839	TT	GG	1946878220
SNP_P4_90022_59068904	NC_021165.1	Ca_kabuli_chr06	59068904	GG	AA	1946878222
SNP_P4_90023_59069160	NC_021165.1	Ca_kabuli_chr06	59069160	CC	TT	1946878224
SNP_P4_90024_59069164	NC_021165.1	Ca_kabuli_chr06	59069164	GG	AA	1946878226
SNP_P4_90025_59069232	NC_021165.1	Ca_kabuli_chr06	59069232	AA	GG	1946878228
SNP_P4_90026_59069245	NC_021165.1	Ca_kabuli_chr06	59069245	AA	GG	1946878230
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SNP_P4_90030_59071289	NC_021165.1	Ca_kabuli_chr06	59071289	AA	CC	1946878237
SNP_P4_90031_59071841	NC_021165.1	Ca_kabuli_chr06	59071841	GG	AA	1946878239
SNP_P4_90032_59072741	NC_021165.1	Ca_kabuli_chr06	59072741	TT	CC	1946878242
SNP_P4_90033_59072802	NC_021165.1	Ca_kabuli_chr06	59072802	AA	CC	1946878244
SNP_P4_90034_59072935	NC_021165.1	Ca_kabuli_chr06	59072935	CC	AA	1946878246
SNP_P4_90036_59074241	NC_021165.1	Ca_kabuli_chr06	59074241	GG	CC	1946878248
SNP_P4_90037_59074307	NC_021165.1	Ca_kabuli_chr06	59074307	CC	AA	1946878250
SNP_P4_90038_59074331	NC_021165.1	Ca_kabuli_chr06	59074331	GG	AA	1946878252
SNP_P4_90039_59074389	NC_021165.1	Ca_kabuli_chr06	59074389	GG	AA	1946878254
SNP_P4_90040_59074415	NC_021165.1	Ca_kabuli_chr06	59074415	TT	CC	1946878256
SNP_P4_90041_59074516	NC_021165.1	Ca_kabuli_chr06	59074516	CC	TT	1946878258
SNP_P4_90042_59074543	NC_021165.1	Ca_kabuli_chr06	59074543	CC	TT	1946878260
SNP_P4_90044_59075004	NC_021165.1	Ca_kabuli_chr06	59075004	CC	AA	1946878262
SNP_P4_90045_59077581	NC_021165.1	Ca_kabuli_chr06	59077581	AA	GG	1946878264
SNP_P4_90046_59077660	NC_021165.1	Ca_kabuli_chr06	59077660	GG	AA	1946878266

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_90048_59078381	NC_021165.1	Ca_kabuli_chr06	59078381	CC	GG	1946878269
SNP_P4_90049_59081341	NC_021165.1	Ca_kabuli_chr06	59081341	AA	GG	1946878272
SNP_P4_90051_59084865	NC_021165.1	Ca_kabuli_chr06	59084865	AA	GG	1946878274
SNP_P4_90054_59119515	NC_021165.1	Ca_kabuli_chr06	59119515	CC	TT	1946878276
SNP_P4_90055_59133132	NC_021165.1	Ca_kabuli_chr06	59133132	AA	GG	1946878278
SNP_P4_90057_59134713	NC_021165.1	Ca_kabuli_chr06	59134713	CC	TT	1946878280
SNP_P4_90058_59151364	NC_021165.1	Ca_kabuli_chr06	59151364	AA	GG	1946878282
SNP_P4_90059_59189795	NC_021165.1	Ca_kabuli_chr06	59189795	TT	CC	1946878284
SNP_P4_90060_59190509	NC_021165.1	Ca_kabuli_chr06	59190509	TT	CC	1946878286
SNP_P4_90062_59216778	NC_021165.1	Ca_kabuli_chr06	59216778	GG	TT	1946878288
SNP_P4_90063_59221039	NC_021165.1	Ca_kabuli_chr06	59221039	CC	TT	1946878290
SNP_P4_90064_59221625	NC_021165.1	Ca_kabuli_chr06	59221625	AA	TT	1946878292
SNP_P4_90065_59238274	NC_021165.1	Ca_kabuli_chr06	59238274	GG	AA	1946878294
SNP_P4_90067_59261448	NC_021165.1	Ca_kabuli_chr06	59261448	AA	GG	1946878296
SNP_P4_90068_59262844	NC_021165.1	Ca_kabuli_chr06	59262844	GG	TT	1946878298
SNP_P4_90069_59262846	NC_021165.1	Ca_kabuli_chr06	59262846	CC	TT	1946878300
SNP_P4_90070_59270768	NC_021165.1	Ca_kabuli_chr06	59270768	TT	AA	1946878302
SNP_P4_90071_59271005	NC_021165.1	Ca_kabuli_chr06	59271005	TT	CC	1946878304
SNP_P4_90072_59271053	NC_021165.1	Ca_kabuli_chr06	59271053	TT	CC	1946878306
SNP_P4_90073_59271065	NC_021165.1	Ca_kabuli_chr06	59271065	TT	CC	1946878308
SNP_P4_90074_59272876	NC_021165.1	Ca_kabuli_chr06	59272876	CC	AA	1946878310
SNP_P4_90075_59272891	NC_021165.1	Ca_kabuli_chr06	59272891	TT	CC	1946878312
SNP_P4_90076_59272907	NC_021165.1	Ca_kabuli_chr06	59272907	GG	TT	1946878314
SNP_P4_90078_59274672	NC_021165.1	Ca_kabuli_chr06	59274672	AA	GG	1946878316
SNP_P4_90079_59277491	NC_021165.1	Ca_kabuli_chr06	59277491	GG	AA	1946878318
SNP_P4_90080_59278216	NC_021165.1	Ca_kabuli_chr06	59278216	TT	GG	1946878320
SNP_P4_90081_59278292	NC_021165.1	Ca_kabuli_chr06	59278292	TT	GG	1946878322
SNP_P4_90082_59301026	NC_021165.1	Ca_kabuli_chr06	59301026	TT	GG	1946878324
SNP_P4_90083_59327339	NC_021165.1	Ca_kabuli_chr06	59327339	TT	CC	1946878326
SNP_P4_90084_59329441	NC_021165.1	Ca_kabuli_chr06	59329441	AA	GG	1946878328
SNP_P4_90085_59333631	NC_021165.1	Ca_kabuli_chr06	59333631	CC	AA	1946878330
SNP_P4_90086_59346287	NC_021165.1	Ca_kabuli_chr06	59346287	CC	AA	1946878332
SNP_P4_90087_59346290	NC_021165.1	Ca_kabuli_chr06	59346290	CC	AA	1946878334
SNP_P4_90089_59372226	NC_021165.1	Ca_kabuli_chr06	59372226	GG	AA	1946878336
SNP_P4_90091_59387817	NC_021165.1	Ca_kabuli_chr06	59387817	CC	TT	1946878338
SNP_P4_90094_59424858	NC_021165.1	Ca_kabuli_chr06	59424858	GG	AA	1946878340
SNP_P4_90096_59434642	NC_021165.1	Ca_kabuli_chr06	59434642	GG	AA	1946878342
SNP_P4_90097_59443487	NC_021165.1	Ca_kabuli_chr06	59443487	AA	CC	1946878344
SNP_P4_90098_59443492	NC_021165.1	Ca_kabuli_chr06	59443492	CC	TT	1946878346
SNP_P4_90099_59443499	NC_021165.1	Ca_kabuli_chr06	59443499	TT	GG	1946878348
SNP_P4_90100_59443512	NC_021165.1	Ca_kabuli_chr06	59443512	AA	GG	1946878350

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_90102_59443572	NC_021165.1	Ca_kabuli_chr06	59443572	CC	TT	1946878354
SNP_P4_90103_59443578	NC_021165.1	Ca_kabuli_chr06	59443578	TT	GG	1946878357
SNP_P4_90104_59443666	NC_021165.1	Ca_kabuli_chr06	59443666	CC	TT	1946878359
SNP_P4_90105_59443796	NC_021165.1	Ca_kabuli_chr06	59443796	TT	CC	1946878361
SNP_P4_90106_59443865	NC_021165.1	Ca_kabuli_chr06	59443865	TT	AA	1946878363
SNP_P4_90107_59444298	NC_021165.1	Ca_kabuli_chr06	59444298	GG	CC	1946878365
SNP_P4_90108_59444340	NC_021165.1	Ca_kabuli_chr06	59444340	TT	CC	1946878367
SNP_P4_90109_59450271	NC_021165.1	Ca_kabuli_chr06	59450271	AA	CC	1946878369
SNP_P4_90110_59452489	NC_021165.1	Ca_kabuli_chr06	59452489	TT	CC	1946878371
SNP_P4_90111_59459355	NC_021165.1	Ca_kabuli_chr06	59459355	TT	GG	1946878373
SNP_P4_90112_59460588	NC_021165.1	Ca_kabuli_chr06	59460588	GG	TT	1946878375
SNP_P4_90113_59462696	NC_021165.1	Ca_kabuli_chr06	59462696	GG	AA	1946878377
SNP_P4_90114_375	NC_021166.1	Ca_kabuli_chr07	375	AA	GG	1946878379
SNP_P4_90115_443	NC_021166.1	Ca_kabuli_chr07	443	AA	GG	1946878381
SNP_P4_90116_449	NC_021166.1	Ca_kabuli_chr07	449	AA	TT	1946878383
SNP_P4_90117_651	NC_021166.1	Ca_kabuli_chr07	651	GG	TT	1946878385
SNP_P4_90118_53942	NC_021166.1	Ca_kabuli_chr07	53942	GG	CC	1946878387
SNP_P4_90119_53951	NC_021166.1	Ca_kabuli_chr07	53951	TT	AA	1946878389
SNP_P4_90120_70169	NC_021166.1	Ca_kabuli_chr07	70169	AA	TT	1946878391
SNP_P4_90121_70172	NC_021166.1	Ca_kabuli_chr07	70172	TT	GG	1946878393
SNP_P4_90122_70317	NC_021166.1	Ca_kabuli_chr07	70317	AA	TT	1946878395
SNP_P4_90125_117662	NC_021166.1	Ca_kabuli_chr07	117662	TT	AA	1946878397
SNP_P4_90126_137627	NC_021166.1	Ca_kabuli_chr07	137627	TT	AA	1946878399
SNP_P4_90127_143448	NC_021166.1	Ca_kabuli_chr07	143448	AA	TT	1946878401
SNP_P4_90128_144969	NC_021166.1	Ca_kabuli_chr07	144969	AA	TT	1946878403
SNP_P4_90129_155787	NC_021166.1	Ca_kabuli_chr07	155787	CC	TT	1946878405
SNP_P4_90130_156028	NC_021166.1	Ca_kabuli_chr07	156028	TT	AA	1946878407
SNP_P4_90131_156031	NC_021166.1	Ca_kabuli_chr07	156031	GG	AA	1946878409
SNP_P4_90132_158556	NC_021166.1	Ca_kabuli_chr07	158556	CC	TT	1946878411
SNP_P4_90134_158584	NC_021166.1	Ca_kabuli_chr07	158584	GG	TT	1946878413
SNP_P4_90136_173818	NC_021166.1	Ca_kabuli_chr07	173818	TT	AA	1946878415
SNP_P4_90139_177403	NC_021166.1	Ca_kabuli_chr07	177403	TT	AA	1946878417
SNP_P4_90140_180384	NC_021166.1	Ca_kabuli_chr07	180384	CC	TT	1946878419
SNP_P4_90142_180436	NC_021166.1	Ca_kabuli_chr07	180436	TT	CC	1946878421
SNP_P4_90143_180470	NC_021166.1	Ca_kabuli_chr07	180470	TT	AA	1946878423
SNP_P4_90144_180542	NC_021166.1	Ca_kabuli_chr07	180542	CC	TT	1946878425
SNP_P4_90145_180806	NC_021166.1	Ca_kabuli_chr07	180806	AA	GG	1946878427
SNP_P4_90146_180882	NC_021166.1	Ca_kabuli_chr07	180882	TT	CC	1946878429
SNP_P4_90147_180910	NC_021166.1	Ca_kabuli_chr07	180910	AA	GG	1946878431
SNP_P4_90148_182242	NC_021166.1	Ca_kabuli_chr07	182242	CC	TT	1946878433
SNP_P4_90149_193947	NC_021166.1	Ca_kabuli_chr07	193947	TT	AA	1946878435

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_90151_197831	NC_021166.1	Ca_kabuli_chr07	197831	GG	TT	1946878439
SNP_P4_90152_199205	NC_021166.1	Ca_kabuli_chr07	199205	TT	CC	1946878441
SNP_P4_90153_212772	NC_021166.1	Ca_kabuli_chr07	212772	TT	GG	1946878444
SNP_P4_90154_226092	NC_021166.1	Ca_kabuli_chr07	226092	AA	GG	1946878446
SNP_P4_90155_253474	NC_021166.1	Ca_kabuli_chr07	253474	AA	GG	1946878448
SNP_P4_90156_284823	NC_021166.1	Ca_kabuli_chr07	284823	GG	TT	1946878450
SNP_P4_90157_329132	NC_021166.1	Ca_kabuli_chr07	329132	CC	TT	1946878452
SNP_P4_90158_336366	NC_021166.1	Ca_kabuli_chr07	336366	AA	GG	1946878454
SNP_P4_90159_343730	NC_021166.1	Ca_kabuli_chr07	343730	GG	AA	1946878456
SNP_P4_90160_357667	NC_021166.1	Ca_kabuli_chr07	357667	TT	CC	1946878458
SNP_P4_90161_357678	NC_021166.1	Ca_kabuli_chr07	357678	TT	CC	1946878460
SNP_P4_90162_357690	NC_021166.1	Ca_kabuli_chr07	357690	GG	AA	1946878462
SNP_P4_90163_357691	NC_021166.1	Ca_kabuli_chr07	357691	AA	GG	1946878464
SNP_P4_90164_357764	NC_021166.1	Ca_kabuli_chr07	357764	TT	GG	1946878466
SNP_P4_90165_357813	NC_021166.1	Ca_kabuli_chr07	357813	CC	TT	1946878468
SNP_P4_90166_357840	NC_021166.1	Ca_kabuli_chr07	357840	AA	TT	1946878470
SNP_P4_90167_362704	NC_021166.1	Ca_kabuli_chr07	362704	TT	GG	1946878472
SNP_P4_90168_374989	NC_021166.1	Ca_kabuli_chr07	374989	CC	GG	1946878474
SNP_P4_90169_405369	NC_021166.1	Ca_kabuli_chr07	405369	GG	AA	1946878476
SNP_P4_90170_405371	NC_021166.1	Ca_kabuli_chr07	405371	AA	GG	1946878478
SNP_P4_90171_419776	NC_021166.1	Ca_kabuli_chr07	419776	TT	AA	1946878480
SNP_P4_90172_423774	NC_021166.1	Ca_kabuli_chr07	423774	CC	AA	1946878482
SNP_P4_90173_433563	NC_021166.1	Ca_kabuli_chr07	433563	GG	TT	1946878484
SNP_P4_90174_450223	NC_021166.1	Ca_kabuli_chr07	450223	AA	GG	1946878486
SNP_P4_90175_450602	NC_021166.1	Ca_kabuli_chr07	450602	TT	AA	1946878488
SNP_P4_90176_456628	NC_021166.1	Ca_kabuli_chr07	456628	GG	AA	1946878490
SNP_P4_90177_457803	NC_021166.1	Ca_kabuli_chr07	457803	CC	TT	1946878492
SNP_P4_90178_457805	NC_021166.1	Ca_kabuli_chr07	457805	TT	AA	1946878494
SNP_P4_90179_457813	NC_021166.1	Ca_kabuli_chr07	457813	TT	CC	1946878495
SNP_P4_90180_457886	NC_021166.1	Ca_kabuli_chr07	457886	TT	GG	1946878498
SNP_P4_90181_496615	NC_021166.1	Ca_kabuli_chr07	496615	AA	TT	1946878500
SNP_P4_90182_496705	NC_021166.1	Ca_kabuli_chr07	496705	TT	CC	1946878502
SNP_P4_90183_496822	NC_021166.1	Ca_kabuli_chr07	496822	AA	GG	1946878504
SNP_P4_90184_496864	NC_021166.1	Ca_kabuli_chr07	496864	CC	AA	1946878506
SNP_P4_90185_496944	NC_021166.1	Ca_kabuli_chr07	496944	AA	TT	1946878508
SNP_P4_90186_496958	NC_021166.1	Ca_kabuli_chr07	496958	AA	CC	1946878510
SNP_P4_90187_496996	NC_021166.1	Ca_kabuli_chr07	496996	AA	GG	1946878512
SNP_P4_90188_498548	NC_021166.1	Ca_kabuli_chr07	498548	CC	TT	1946878514
SNP_P4_90189_503257	NC_021166.1	Ca_kabuli_chr07	503257	CC	TT	1946878516
SNP_P4_90190_503277	NC_021166.1	Ca_kabuli_chr07	503277	CC	AA	1946878518
SNP_P4_90191_510394	NC_021166.1	Ca_kabuli_chr07	510394	CC	TT	1946878520

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_90192_521278	NC_021166.1	Ca_kabuli_chr07	521278	AA	GG	1946878522
SNP_P4_90193_542577	NC_021166.1	Ca_kabuli_chr07	542577	CC	AA	1946878524
SNP_P4_90194_543456	NC_021166.1	Ca_kabuli_chr07	543456	AA	GG	1946878526
SNP_P4_90195_543781	NC_021166.1	Ca_kabuli_chr07	543781	TT	AA	1946878528
SNP_P4_90196_560488	NC_021166.1	Ca_kabuli_chr07	560488	TT	GG	1946878530
SNP_P4_90197_560527	NC_021166.1	Ca_kabuli_chr07	560527	GG	AA	1946878532
SNP_P4_90198_560539	NC_021166.1	Ca_kabuli_chr07	560539	GG	AA	1946878534
SNP_P4_90199_564795	NC_021166.1	Ca_kabuli_chr07	564795	AA	GG	1946878536
SNP_P4_90200_570669	NC_021166.1	Ca_kabuli_chr07	570669	AA	TT	1946878538
SNP_P4_90201_570748	NC_021166.1	Ca_kabuli_chr07	570748	AA	TT	1946878540
SNP_P4_90202_570802	NC_021166.1	Ca_kabuli_chr07	570802	GG	AA	1946878542
SNP_P4_90203_570822	NC_021166.1	Ca_kabuli_chr07	570822	TT	GG	1946878544
SNP_P4_90204_585024	NC_021166.1	Ca_kabuli_chr07	585024	TT	AA	1946878546
SNP_P4_90206_585071	NC_021166.1	Ca_kabuli_chr07	585071	GG	TT	1946878548
SNP_P4_90207_585483	NC_021166.1	Ca_kabuli_chr07	585483	AA	GG	1946878549
SNP_P4_90208_585491	NC_021166.1	Ca_kabuli_chr07	585491	TT	GG	1946878551
SNP_P4_90209_585500	NC_021166.1	Ca_kabuli_chr07	585500	CC	TT	1946878553
SNP_P4_90210_585517	NC_021166.1	Ca_kabuli_chr07	585517	TT	CC	1946878555
SNP_P4_90211_585535	NC_021166.1	Ca_kabuli_chr07	585535	CC	TT	1946878557
SNP_P4_90212_585538	NC_021166.1	Ca_kabuli_chr07	585538	CC	TT	1946878559
SNP_P4_90213_586413	NC_021166.1	Ca_kabuli_chr07	586413	TT	AA	1946878561
SNP_P4_90214_586484	NC_021166.1	Ca_kabuli_chr07	586484	TT	GG	1946878563
SNP_P4_90215_586487	NC_021166.1	Ca_kabuli_chr07	586487	CC	GG	1946878565
SNP_P4_90216_586496	NC_021166.1	Ca_kabuli_chr07	586496	AA	GG	1946878566
SNP_P4_90217_586900	NC_021166.1	Ca_kabuli_chr07	586900	TT	GG	1946878568
SNP_P4_90218_586925	NC_021166.1	Ca_kabuli_chr07	586925	AA	GG	1946878570
SNP_P4_90219_586963	NC_021166.1	Ca_kabuli_chr07	586963	CC	TT	1946878572
SNP_P4_90221_599200	NC_021166.1	Ca_kabuli_chr07	599200	GG	AA	1946878574
SNP_P4_90222_599240	NC_021166.1	Ca_kabuli_chr07	599240	AA	GG	1946878576
SNP_P4_90223_599378	NC_021166.1	Ca_kabuli_chr07	599378	TT	CC	1946878578
SNP_P4_90224_599426	NC_021166.1	Ca_kabuli_chr07	599426	AA	TT	1946878580
SNP_P4_90225_599513	NC_021166.1	Ca_kabuli_chr07	599513	AA	GG	1946878582
SNP_P4_90226_599531	NC_021166.1	Ca_kabuli_chr07	599531	GG	AA	1946878584
SNP_P4_90227_599578	NC_021166.1	Ca_kabuli_chr07	599578	TT	CC	1946878586
SNP_P4_90228_599600	NC_021166.1	Ca_kabuli_chr07	599600	CC	TT	1946878588
SNP_P4_90229_599624	NC_021166.1	Ca_kabuli_chr07	599624	TT	CC	1946878590
SNP_P4_90230_599689	NC_021166.1	Ca_kabuli_chr07	599689	GG	AA	1946878592
SNP_P4_90231_639460	NC_021166.1	Ca_kabuli_chr07	639460	TT	CC	1946878594
SNP_P4_90232_639494	NC_021166.1	Ca_kabuli_chr07	639494	TT	AA	1946878596
SNP_P4_90234_654964	NC_021166.1	Ca_kabuli_chr07	654964	AA	TT	1946878598
SNP_P4_90235_654967	NC_021166.1	Ca_kabuli_chr07	654967	TT	AA	1946878599
SNP_P4_90236_660874	NC_021166.1	Ca_kabuli_chr07	660874	TT	CC	1946878601

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_90238_666151	NC_021166.1	Ca_kabuli_chr07	666151	AA	CC	1946878605
SNP_P4_90240_687295	NC_021166.1	Ca_kabuli_chr07	687295	GG	AA	1946878607
SNP_P4_90241_687790	NC_021166.1	Ca_kabuli_chr07	687790	AA	CC	1946878609
SNP_P4_90243_752537	NC_021166.1	Ca_kabuli_chr07	752537	CC	TT	1946878611
SNP_P4_90245_760433	NC_021166.1	Ca_kabuli_chr07	760433	TT	CC	1946878613
SNP_P4_90246_760463	NC_021166.1	Ca_kabuli_chr07	760463	CC	GG	1946878614
SNP_P4_90247_760480	NC_021166.1	Ca_kabuli_chr07	760480	GG	AA	1946878615
SNP_P4_90248_760488	NC_021166.1	Ca_kabuli_chr07	760488	TT	CC	1946878616
SNP_P4_90249_760503	NC_021166.1	Ca_kabuli_chr07	760503	CC	AA	1946878618
SNP_P4_90250_760510	NC_021166.1	Ca_kabuli_chr07	760510	CC	TT	1946878620
SNP_P4_90251_760528	NC_021166.1	Ca_kabuli_chr07	760528	TT	CC	1946878622
SNP_P4_90252_760533	NC_021166.1	Ca_kabuli_chr07	760533	CC	AA	1946878624
SNP_P4_90253_760557	NC_021166.1	Ca_kabuli_chr07	760557	CC	TT	1946878626
SNP_P4_90254_760568	NC_021166.1	Ca_kabuli_chr07	760568	GG	TT	1946878628
SNP_P4_90255_760705	NC_021166.1	Ca_kabuli_chr07	760705	CC	GG	1946878630
SNP_P4_90257_773352	NC_021166.1	Ca_kabuli_chr07	773352	AA	TT	1946878632
SNP_P4_90258_773353	NC_021166.1	Ca_kabuli_chr07	773353	TT	AA	1946878634
SNP_P4_90259_773354	NC_021166.1	Ca_kabuli_chr07	773354	AA	TT	1946878636
SNP_P4_90260_786782	NC_021166.1	Ca_kabuli_chr07	786782	TT	AA	1946878637
SNP_P4_90261_816670	NC_021166.1	Ca_kabuli_chr07	816670	AA	GG	1946878639
SNP_P4_90263_817329	NC_021166.1	Ca_kabuli_chr07	817329	GG	AA	1946878641
SNP_P4_90264_819068	NC_021166.1	Ca_kabuli_chr07	819068	TT	CC	1946878643
SNP_P4_90265_819073	NC_021166.1	Ca_kabuli_chr07	819073	TT	CC	1946878645
SNP_P4_90266_819100	NC_021166.1	Ca_kabuli_chr07	819100	AA	TT	1946878647
SNP_P4_90267_819130	NC_021166.1	Ca_kabuli_chr07	819130	TT	CC	1946878649
SNP_P4_90268_819178	NC_021166.1	Ca_kabuli_chr07	819178	GG	AA	1946878651
SNP_P4_90269_819220	NC_021166.1	Ca_kabuli_chr07	819220	AA	CC	1946878653
SNP_P4_90270_819261	NC_021166.1	Ca_kabuli_chr07	819261	GG	AA	1946878655
SNP_P4_90271_819270	NC_021166.1	Ca_kabuli_chr07	819270	TT	CC	1946878657
SNP_P4_90272_819310	NC_021166.1	Ca_kabuli_chr07	819310	AA	GG	1946878659
SNP_P4_90273_819319	NC_021166.1	Ca_kabuli_chr07	819319	AA	TT	1946878661
SNP_P4_90274_819325	NC_021166.1	Ca_kabuli_chr07	819325	AA	CC	1946878663
SNP_P4_90275_819332	NC_021166.1	Ca_kabuli_chr07	819332	CC	TT	1946878665
SNP_P4_90276_819333	NC_021166.1	Ca_kabuli_chr07	819333	TT	AA	1946878668
SNP_P4_90277_819352	NC_021166.1	Ca_kabuli_chr07	819352	AA	GG	1946878670
SNP_P4_90278_819367	NC_021166.1	Ca_kabuli_chr07	819367	GG	AA	1946878672
SNP_P4_90279_819513	NC_021166.1	Ca_kabuli_chr07	819513	TT	CC	1946878674
SNP_P4_90280_819663	NC_021166.1	Ca_kabuli_chr07	819663	AA	GG	1946878676
SNP_P4_90281_819693	NC_021166.1	Ca_kabuli_chr07	819693	CC	TT	1946878678
SNP_P4_90282_819694	NC_021166.1	Ca_kabuli_chr07	819694	GG	TT	1946878679
SNP_P4_90284_823628	NC_021166.1	Ca_kabuli_chr07	823628	TT	AA	1946878681

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_90286_905517	NC_021166.1	Ca_kabuli_chr07	905517	GG	TT	1946878683
SNP_P4_90287_913252	NC_021166.1	Ca_kabuli_chr07	913252	AA	CC	1946878685
SNP_P4_90288_914080	NC_021166.1	Ca_kabuli_chr07	914080	TT	CC	1946878687
SNP_P4_90289_914690	NC_021166.1	Ca_kabuli_chr07	914690	GG	AA	1946878689
SNP_P4_90291_946627	NC_021166.1	Ca_kabuli_chr07	946627	CC	AA	1946878691
SNP_P4_90294_1000745	NC_021166.1	Ca_kabuli_chr07	1000745	TT	CC	1946878693
SNP_P4_90295_1000747	NC_021166.1	Ca_kabuli_chr07	1000747	TT	CC	1946878695
SNP_P4_90296_1018531	NC_021166.1	Ca_kabuli_chr07	1018531	TT	CC	1946878697
SNP_P4_90297_1018540	NC_021166.1	Ca_kabuli_chr07	1018540	TT	CC	1946878699
SNP_P4_90298_1018557	NC_021166.1	Ca_kabuli_chr07	1018557	AA	TT	1946878702
SNP_P4_90299_1018676	NC_021166.1	Ca_kabuli_chr07	1018676	AA	GG	1946878704
SNP_P4_90301_1018756	NC_021166.1	Ca_kabuli_chr07	1018756	GG	AA	1946878706
SNP_P4_90303_1018840	NC_021166.1	Ca_kabuli_chr07	1018840	CC	AA	1946878708
SNP_P4_90304_1018959	NC_021166.1	Ca_kabuli_chr07	1018959	CC	TT	1946878710
SNP_P4_90305_1019099	NC_021166.1	Ca_kabuli_chr07	1019099	TT	AA	1946878712
SNP_P4_90306_1019156	NC_021166.1	Ca_kabuli_chr07	1019156	AA	GG	1946878714
SNP_P4_90307_1019410	NC_021166.1	Ca_kabuli_chr07	1019410	AA	GG	1946878716
SNP_P4_90308_1019455	NC_021166.1	Ca_kabuli_chr07	1019455	AA	GG	1946878718
SNP_P4_90309_1019477	NC_021166.1	Ca_kabuli_chr07	1019477	TT	CC	1946878720
SNP_P4_90310_1019510	NC_021166.1	Ca_kabuli_chr07	1019510	AA	GG	1946878722
SNP_P4_90311_1019568	NC_021166.1	Ca_kabuli_chr07	1019568	GG	AA	1946878724
SNP_P4_90312_1019572	NC_021166.1	Ca_kabuli_chr07	1019572	TT	CC	1946878726
SNP_P4_90313_1019589	NC_021166.1	Ca_kabuli_chr07	1019589	AA	GG	1946878728
SNP_P4_90314_1019698	NC_021166.1	Ca_kabuli_chr07	1019698	AA	GG	1946878730
SNP_P4_90315_1019724	NC_021166.1	Ca_kabuli_chr07	1019724	AA	TT	1946878732
SNP_P4_90316_1019764	NC_021166.1	Ca_kabuli_chr07	1019764	GG	AA	1946878734
SNP_P4_90317_1019768	NC_021166.1	Ca_kabuli_chr07	1019768	GG	CC	1946878736
SNP_P4_90318_1019770	NC_021166.1	Ca_kabuli_chr07	1019770	AA	TT	1946878738
SNP_P4_90319_1019780	NC_021166.1	Ca_kabuli_chr07	1019780	GG	AA	1946878740
SNP_P4_90320_1019781	NC_021166.1	Ca_kabuli_chr07	1019781	TT	GG	1946878742
SNP_P4_90321_1019788	NC_021166.1	Ca_kabuli_chr07	1019788	CC	AA	1946878744
SNP_P4_90322_1019808	NC_021166.1	Ca_kabuli_chr07	1019808	CC	TT	1946878746
SNP_P4_90323_1021390	NC_021166.1	Ca_kabuli_chr07	1021390	CC	TT	1946878748
SNP_P4_90324_1037138	NC_021166.1	Ca_kabuli_chr07	1037138	GG	CC	1946878750
SNP_P4_90326_1042316	NC_021166.1	Ca_kabuli_chr07	1042316	CC	TT	1946878752
SNP_P4_90327_1042320	NC_021166.1	Ca_kabuli_chr07	1042320	TT	AA	1946878754
SNP_P4_90328_1064978	NC_021166.1	Ca_kabuli_chr07	1064978	CC	AA	1946878756
SNP_P4_90329_1065188	NC_021166.1	Ca_kabuli_chr07	1065188	GG	AA	1946878758
SNP_P4_90330_1179666	NC_021166.1	Ca_kabuli_chr07	1179666	GG	CC	1946878760
SNP_P4_90331_1184849	NC_021166.1	Ca_kabuli_chr07	1184849	AA	GG	1946878762
SNP_P4_90332_1184887	NC_021166.1	Ca_kabuli_chr07	1184887	TT	AA	1946878764
SNP_P4_90333_1218285	NC_021166.1	Ca_kabuli_chr07	1218285	TT	AA	1946878766

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_90334_1239181	NC_021166.1	Ca_kabuli_chr07	1239181	AA	GG	1946878768
SNP_P4_90335_1240398	NC_021166.1	Ca_kabuli_chr07	1240398	GG	CC	1946878770
SNP_P4_90336_1243444	NC_021166.1	Ca_kabuli_chr07	1243444	CC	TT	1946878772
SNP_P4_90337_1244387	NC_021166.1	Ca_kabuli_chr07	1244387	TT	CC	1946878774
SNP_P4_90338_1244943	NC_021166.1	Ca_kabuli_chr07	1244943	AA	GG	1946878776
SNP_P4_90340_1254994	NC_021166.1	Ca_kabuli_chr07	1254994	TT	AA	1946878778
SNP_P4_90341_1255759	NC_021166.1	Ca_kabuli_chr07	1255759	CC	AA	1946878780
SNP_P4_90342_1274605	NC_021166.1	Ca_kabuli_chr07	1274605	GG	AA	1946878783
SNP_P4_90343_1292609	NC_021166.1	Ca_kabuli_chr07	1292609	AA	GG	1946878785
SNP_P4_90345_1307243	NC_021166.1	Ca_kabuli_chr07	1307243	TT	CC	1946878787
SNP_P4_90346_1307405	NC_021166.1	Ca_kabuli_chr07	1307405	CC	TT	1946878789
SNP_P4_90347_1307408	NC_021166.1	Ca_kabuli_chr07	1307408	GG	AA	1946878791
SNP_P4_90348_1307863	NC_021166.1	Ca_kabuli_chr07	1307863	TT	AA	1946878793
SNP_P4_90349_1307928	NC_021166.1	Ca_kabuli_chr07	1307928	GG	AA	1946878795
SNP_P4_90350_1311667	NC_021166.1	Ca_kabuli_chr07	1311667	GG	CC	1946878797
SNP_P4_90352_1326843	NC_021166.1	Ca_kabuli_chr07	1326843	AA	GG	1946878799
SNP_P4_90354_1347821	NC_021166.1	Ca_kabuli_chr07	1347821	CC	TT	1946878801
SNP_P4_90355_1351594	NC_021166.1	Ca_kabuli_chr07	1351594	GG	TT	1946878803
SNP_P4_90358_1418056	NC_021166.1	Ca_kabuli_chr07	1418056	CC	TT	1946878805
SNP_P4_90359_1418057	NC_021166.1	Ca_kabuli_chr07	1418057	CC	TT	1946878807
SNP_P4_90360_1418114	NC_021166.1	Ca_kabuli_chr07	1418114	GG	AA	1946878809
SNP_P4_90366_1425909	NC_021166.1	Ca_kabuli_chr07	1425909	AA	TT	1946878811
SNP_P4_90367_1425911	NC_021166.1	Ca_kabuli_chr07	1425911	AA	TT	1946878813
SNP_P4_90368_1447635	NC_021166.1	Ca_kabuli_chr07	1447635	AA	CC	1946878815
SNP_P4_90369_1465830	NC_021166.1	Ca_kabuli_chr07	1465830	CC	TT	1946878817
SNP_P4_90370_1469760	NC_021166.1	Ca_kabuli_chr07	1469760	CC	TT	1946878819
SNP_P4_90371_1530566	NC_021166.1	Ca_kabuli_chr07	1530566	AA	TT	1946878821
SNP_P4_90373_1534512	NC_021166.1	Ca_kabuli_chr07	1534512	GG	AA	1946878823
SNP_P4_90374_1534610	NC_021166.1	Ca_kabuli_chr07	1534610	AA	GG	1946878825
SNP_P4_90375_1559221	NC_021166.1	Ca_kabuli_chr07	1559221	TT	CC	1946878827
SNP_P4_90376_1559222	NC_021166.1	Ca_kabuli_chr07	1559222	GG	TT	1946878829
SNP_P4_90377_1583119	NC_021166.1	Ca_kabuli_chr07	1583119	GG	TT	1946878831
SNP_P4_90379_1617991	NC_021166.1	Ca_kabuli_chr07	1617991	TT	CC	1946878833
SNP_P4_90381_1683733	NC_021166.1	Ca_kabuli_chr07	1683733	AA	TT	1946878835
SNP_P4_90383_1691943	NC_021166.1	Ca_kabuli_chr07	1691943	TT	AA	1946878837
SNP_P4_90384_1692007	NC_021166.1	Ca_kabuli_chr07	1692007	TT	AA	1946878839
SNP_P4_90385_1698538	NC_021166.1	Ca_kabuli_chr07	1698538	GG	CC	1946878841
SNP_P4_90386_1748402	NC_021166.1	Ca_kabuli_chr07	1748402	TT	CC	1946878844
SNP_P4_90388_1778082	NC_021166.1	Ca_kabuli_chr07	1778082	TT	GG	1946878846
SNP_P4_90391_1834474	NC_021166.1	Ca_kabuli_chr07	1834474	AA	TT	1946878848
SNP_P4_90393_1852449	NC_021166.1	Ca_kabuli_chr07	1852449	CC	AA	1946878850
SNP_P4_90394_1879938	NC_021166.1	Ca_kabuli_chr07	1879938	CC	TT	1946878852

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_90395_1893007	NC_021166.1	Ca_kabuli_chr07	1893007	CC	AA	1946878854
SNP_P4_90397_1906413	NC_021166.1	Ca_kabuli_chr07	1906413	TT	AA	1946878856
SNP_P4_90398_1913416	NC_021166.1	Ca_kabuli_chr07	1913416	CC	AA	1946878858
SNP_P4_90399_1914908	NC_021166.1	Ca_kabuli_chr07	1914908	CC	AA	1946878860
SNP_P4_90401_1952888	NC_021166.1	Ca_kabuli_chr07	1952888	TT	AA	1946878862
SNP_P4_90403_1966667	NC_021166.1	Ca_kabuli_chr07	1966667	GG	AA	1946878864
SNP_P4_90404_1994208	NC_021166.1	Ca_kabuli_chr07	1994208	AA	GG	1946878866
SNP_P4_90405_2018442	NC_021166.1	Ca_kabuli_chr07	2018442	AA	TT	1946878868
SNP_P4_90406_2018774	NC_021166.1	Ca_kabuli_chr07	2018774	TT	AA	1946878870
SNP_P4_90408_2055120	NC_021166.1	Ca_kabuli_chr07	2055120	AA	GG	1946878872
SNP_P4_90410_2104112	NC_021166.1	Ca_kabuli_chr07	2104112	CC	AA	1946878874
SNP_P4_90411_2126834	NC_021166.1	Ca_kabuli_chr07	2126834	GG	TT	1946878876
SNP_P4_90413_2133213	NC_021166.1	Ca_kabuli_chr07	2133213	CC	TT	1946878878
SNP_P4_90414_2139056	NC_021166.1	Ca_kabuli_chr07	2139056	AA	CC	1946878880
SNP_P4_90415_2144770	NC_021166.1	Ca_kabuli_chr07	2144770	AA	CC	1946878882
SNP_P4_90416_2146271	NC_021166.1	Ca_kabuli_chr07	2146271	AA	TT	1946878884
SNP_P4_90417_2146272	NC_021166.1	Ca_kabuli_chr07	2146272	AA	TT	1946878886
SNP_P4_90418_2146297	NC_021166.1	Ca_kabuli_chr07	2146297	CC	TT	1946878888
SNP_P4_90419_2168204	NC_021166.1	Ca_kabuli_chr07	2168204	TT	CC	1946878890
SNP_P4_90421_2168252	NC_021166.1	Ca_kabuli_chr07	2168252	AA	CC	1946878892
SNP_P4_90422_2168319	NC_021166.1	Ca_kabuli_chr07	2168319	AA	CC	1946878894
SNP_P4_90423_2168338	NC_021166.1	Ca_kabuli_chr07	2168338	TT	CC	1946878896
SNP_P4_90424_2168507	NC_021166.1	Ca_kabuli_chr07	2168507	GG	AA	1946878898
SNP_P4_90425_2168538	NC_021166.1	Ca_kabuli_chr07	2168538	CC	TT	1946878900
SNP_P4_90426_2169580	NC_021166.1	Ca_kabuli_chr07	2169580	CC	TT	1946878902
SNP_P4_90427_2169630	NC_021166.1	Ca_kabuli_chr07	2169630	AA	GG	1946878905
SNP_P4_90428_2169661	NC_021166.1	Ca_kabuli_chr07	2169661	AA	CC	1946878907
SNP_P4_90429_2169860	NC_021166.1	Ca_kabuli_chr07	2169860	CC	TT	1946878908
SNP_P4_90430_2169893	NC_021166.1	Ca_kabuli_chr07	2169893	CC	TT	1946878910
SNP_P4_90432_2169907	NC_021166.1	Ca_kabuli_chr07	2169907	GG	CC	1946878912
SNP_P4_90433_2169981	NC_021166.1	Ca_kabuli_chr07	2169981	AA	CC	1946878914
SNP_P4_90434_2170031	NC_021166.1	Ca_kabuli_chr07	2170031	CC	TT	1946878916
SNP_P4_90435_2219565	NC_021166.1	Ca_kabuli_chr07	2219565	CC	AA	1946878918
SNP_P4_90436_2296280	NC_021166.1	Ca_kabuli_chr07	2296280	GG	AA	1946878920
SNP_P4_90437_2316573	NC_021166.1	Ca_kabuli_chr07	2316573	TT	CC	1946878922
SNP_P4_90438_2326915	NC_021166.1	Ca_kabuli_chr07	2326915	CC	TT	1946878924
SNP_P4_90440_2327126	NC_021166.1	Ca_kabuli_chr07	2327126	CC	TT	1946878926
SNP_P4_90441_2327154	NC_021166.1	Ca_kabuli_chr07	2327154	TT	CC	1946878928
SNP_P4_90443_2355809	NC_021166.1	Ca_kabuli_chr07	2355809	GG	AA	1946878930
SNP_P4_90444_2355833	NC_021166.1	Ca_kabuli_chr07	2355833	AA	GG	1946878932
SNP_P4_90446_2426591	NC_021166.1	Ca_kabuli_chr07	2426591	AA	CC	1946878934
SNP_P4_90449_2438391	NC_021166.1	Ca_kabuli_chr07	2438391	AA	GG	1946878936

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_90450_2443614	NC_021166.1	Ca_kabuli_chr07	2443614	CC	AA	1946878938
SNP_P4_90453_2595101	NC_021166.1	Ca_kabuli_chr07	2595101	GG	AA	1946878940
SNP_P4_90454_2596215	NC_021166.1	Ca_kabuli_chr07	2596215	AA	GG	1946878942
SNP_P4_90455_2615425	NC_021166.1	Ca_kabuli_chr07	2615425	GG	CC	1946878944
SNP_P4_90456_2635726	NC_021166.1	Ca_kabuli_chr07	2635726	CC	AA	1946878946
SNP_P4_90457_2642358	NC_021166.1	Ca_kabuli_chr07	2642358	TT	GG	1946878948
SNP_P4_90458_2680358	NC_021166.1	Ca_kabuli_chr07	2680358	TT	CC	1946878950
SNP_P4_90459_2726305	NC_021166.1	Ca_kabuli_chr07	2726305	AA	TT	1946878952
SNP_P4_90460_2768530	NC_021166.1	Ca_kabuli_chr07	2768530	GG	TT	1946878953
SNP_P4_90462_2790986	NC_021166.1	Ca_kabuli_chr07	2790986	TT	GG	1946878955
SNP_P4_90463_2806781	NC_021166.1	Ca_kabuli_chr07	2806781	CC	TT	1946878957
SNP_P4_90465_2817875	NC_021166.1	Ca_kabuli_chr07	2817875	AA	GG	1946878959
SNP_P4_90467_2837806	NC_021166.1	Ca_kabuli_chr07	2837806	CC	TT	1946878961
SNP_P4_90468_2838780	NC_021166.1	Ca_kabuli_chr07	2838780	TT	GG	1946878963
SNP_P4_90469_2843991	NC_021166.1	Ca_kabuli_chr07	2843991	CC	TT	1946878965
SNP_P4_90470_2987311	NC_021166.1	Ca_kabuli_chr07	2987311	AA	CC	1946878967
SNP_P4_90471_2988039	NC_021166.1	Ca_kabuli_chr07	2988039	AA	TT	1946878969
SNP_P4_90472_3001151	NC_021166.1	Ca_kabuli_chr07	3001151	GG	AA	1946878971
SNP_P4_90473_3007497	NC_021166.1	Ca_kabuli_chr07	3007497	AA	GG	1946878973
SNP_P4_90476_3046598	NC_021166.1	Ca_kabuli_chr07	3046598	AA	CC	1946878974
SNP_P4_90477_3049702	NC_021166.1	Ca_kabuli_chr07	3049702	GG	AA	1946878976
SNP_P4_90479_3077351	NC_021166.1	Ca_kabuli_chr07	3077351	GG	AA	1946878978
SNP_P4_90480_3080461	NC_021166.1	Ca_kabuli_chr07	3080461	AA	GG	1946878980
SNP_P4_90481_3083622	NC_021166.1	Ca_kabuli_chr07	3083622	CC	GG	1946878982
SNP_P4_90482_3105098	NC_021166.1	Ca_kabuli_chr07	3105098	GG	CC	1946878984
SNP_P4_90483_3105328	NC_021166.1	Ca_kabuli_chr07	3105328	TT	AA	1946878986
SNP_P4_90487_3138969	NC_021166.1	Ca_kabuli_chr07	3138969	CC	TT	1946878988
SNP_P4_90488_3145614	NC_021166.1	Ca_kabuli_chr07	3145614	CC	TT	1946878990
SNP_P4_90489_3156286	NC_021166.1	Ca_kabuli_chr07	3156286	CC	AA	1946878992
SNP_P4_90491_3214577	NC_021166.1	Ca_kabuli_chr07	3214577	TT	CC	1946878994
SNP_P4_90492_3216893	NC_021166.1	Ca_kabuli_chr07	3216893	CC	TT	1946878996
SNP_P4_90493_3216924	NC_021166.1	Ca_kabuli_chr07	3216924	TT	CC	1946878998
SNP_P4_90494_3231361	NC_021166.1	Ca_kabuli_chr07	3231361	TT	AA	1946879000
SNP_P4_90495_3231604	NC_021166.1	Ca_kabuli_chr07	3231604	CC	TT	1946879002
SNP_P4_90496_3233749	NC_021166.1	Ca_kabuli_chr07	3233749	CC	AA	1946879003
SNP_P4_90499_3248343	NC_021166.1	Ca_kabuli_chr07	3248343	GG	TT	1946879005
SNP_P4_90500_3248387	NC_021166.1	Ca_kabuli_chr07	3248387	CC	TT	1946879007
SNP_P4_90501_3248513	NC_021166.1	Ca_kabuli_chr07	3248513	AA	TT	1946879009
SNP_P4_90502_3248800	NC_021166.1	Ca_kabuli_chr07	3248800	AA	CC	1946879011
SNP_P4_90503_3248802	NC_021166.1	Ca_kabuli_chr07	3248802	TT	AA	1946879013
SNP_P4_90504_3248804	NC_021166.1	Ca_kabuli_chr07	3248804	GG	TT	1946879015
SNP_P4_90505_3248806	NC_021166.1	Ca_kabuli_chr07	3248806	TT	AA	1946879017

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_90507_3248808	NC_021166.1	Ca_kabuli_chr07	3248808	CC	TT	1946879021
SNP_P4_90509_3272435	NC_021166.1	Ca_kabuli_chr07	3272435	AA	GG	1946879023
SNP_P4_90511_3281150	NC_021166.1	Ca_kabuli_chr07	3281150	AA	TT	1946879025
SNP_P4_90512_3281555	NC_021166.1	Ca_kabuli_chr07	3281555	GG	AA	1946879027
SNP_P4_90515_3301488	NC_021166.1	Ca_kabuli_chr07	3301488	GG	TT	1946879029
SNP_P4_90517_3326784	NC_021166.1	Ca_kabuli_chr07	3326784	TT	CC	1946879031
SNP_P4_90518_3346233	NC_021166.1	Ca_kabuli_chr07	3346233	GG	AA	1946879033
SNP_P4_90519_3353422	NC_021166.1	Ca_kabuli_chr07	3353422	TT	CC	1946879035
SNP_P4_90520_3368777	NC_021166.1	Ca_kabuli_chr07	3368777	GG	AA	1946879037
SNP_P4_90521_3372444	NC_021166.1	Ca_kabuli_chr07	3372444	AA	GG	1946879039
SNP_P4_90522_3372451	NC_021166.1	Ca_kabuli_chr07	3372451	TT	AA	1946879041
SNP_P4_90525_3380808	NC_021166.1	Ca_kabuli_chr07	3380808	GG	CC	1946879043
SNP_P4_90526_3385014	NC_021166.1	Ca_kabuli_chr07	3385014	CC	TT	1946879045
SNP_P4_90527_3387583	NC_021166.1	Ca_kabuli_chr07	3387583	GG	AA	1946879047
SNP_P4_90528_3404164	NC_021166.1	Ca_kabuli_chr07	3404164	GG	TT	1946879049
SNP_P4_90529_3409827	NC_021166.1	Ca_kabuli_chr07	3409827	AA	GG	1946879051
SNP_P4_90530_3440476	NC_021166.1	Ca_kabuli_chr07	3440476	TT	CC	1946879053
SNP_P4_90531_3441018	NC_021166.1	Ca_kabuli_chr07	3441018	AA	GG	1946879055
SNP_P4_90532_3447698	NC_021166.1	Ca_kabuli_chr07	3447698	GG	CC	1946879057
SNP_P4_90533_3448446	NC_021166.1	Ca_kabuli_chr07	3448446	GG	CC	1946879059
SNP_P4_90535_3461320	NC_021166.1	Ca_kabuli_chr07	3461320	AA	TT	1946879061
SNP_P4_90536_3495705	NC_021166.1	Ca_kabuli_chr07	3495705	CC	TT	1946879063
SNP_P4_90537_3500950	NC_021166.1	Ca_kabuli_chr07	3500950	TT	CC	1946879065
SNP_P4_90538_3503183	NC_021166.1	Ca_kabuli_chr07	3503183	TT	CC	1946879067
SNP_P4_90539_3503184	NC_021166.1	Ca_kabuli_chr07	3503184	AA	CC	1946879069
SNP_P4_90540_3503495	NC_021166.1	Ca_kabuli_chr07	3503495	CC	AA	1946879071
SNP_P4_90541_3503802	NC_021166.1	Ca_kabuli_chr07	3503802	TT	CC	1946879073
SNP_P4_90542_3503896	NC_021166.1	Ca_kabuli_chr07	3503896	TT	CC	1946879075
SNP_P4_90543_3504847	NC_021166.1	Ca_kabuli_chr07	3504847	GG	AA	1946879077
SNP_P4_90544_3504900	NC_021166.1	Ca_kabuli_chr07	3504900	GG	AA	1946879079
SNP_P4_90545_3506393	NC_021166.1	Ca_kabuli_chr07	3506393	GG	AA	1946879081
SNP_P4_90546_3506580	NC_021166.1	Ca_kabuli_chr07	3506580	GG	TT	1946879083
SNP_P4_90547_3507377	NC_021166.1	Ca_kabuli_chr07	3507377	GG	AA	1946879085
SNP_P4_90549_3508705	NC_021166.1	Ca_kabuli_chr07	3508705	GG	TT	1946879086
SNP_P4_90550_3509967	NC_021166.1	Ca_kabuli_chr07	3509967	CC	GG	1946879088
SNP_P4_90551_3509969	NC_021166.1	Ca_kabuli_chr07	3509969	AA	CC	1946879090
SNP_P4_90552_3510125	NC_021166.1	Ca_kabuli_chr07	3510125	GG	CC	1946879092
SNP_P4_90553_3510414	NC_021166.1	Ca_kabuli_chr07	3510414	AA	GG	1946879094
SNP_P4_90554_3510642	NC_021166.1	Ca_kabuli_chr07	3510642	CC	TT	1946879096
SNP_P4_90555_3510655	NC_021166.1	Ca_kabuli_chr07	3510655	CC	TT	1946879098
SNP_P4_90556_3510686	NC_021166.1	Ca_kabuli_chr07	3510686	CC	TT	1946879100

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_90558_3510698	NC_021166.1	Ca_kabuli_chr07	3510698	TT	CC	1946879103
SNP_P4_90559_3510726	NC_021166.1	Ca_kabuli_chr07	3510726	GG	AA	1946879105
SNP_P4_90560_3511771	NC_021166.1	Ca_kabuli_chr07	3511771	GG	TT	1946879107
SNP_P4_90561_3511847	NC_021166.1	Ca_kabuli_chr07	3511847	AA	GG	1946879109
SNP_P4_90562_3512153	NC_021166.1	Ca_kabuli_chr07	3512153	CC	TT	1946879111
SNP_P4_90564_3514518	NC_021166.1	Ca_kabuli_chr07	3514518	TT	GG	1946879113
SNP_P4_90566_3515827	NC_021166.1	Ca_kabuli_chr07	3515827	CC	TT	1946879115
SNP_P4_90567_3515960	NC_021166.1	Ca_kabuli_chr07	3515960	AA	GG	1946879117
SNP_P4_90568_3515976	NC_021166.1	Ca_kabuli_chr07	3515976	CC	TT	1946879119
SNP_P4_90569_3516028	NC_021166.1	Ca_kabuli_chr07	3516028	AA	GG	1946879120
SNP_P4_90570_3516029	NC_021166.1	Ca_kabuli_chr07	3516029	AA	TT	1946879122
SNP_P4_90571_3516038	NC_021166.1	Ca_kabuli_chr07	3516038	CC	TT	1946879124
SNP_P4_90572_3516068	NC_021166.1	Ca_kabuli_chr07	3516068	TT	AA	1946879126
SNP_P4_90573_3516080	NC_021166.1	Ca_kabuli_chr07	3516080	CC	TT	1946879128
SNP_P4_90574_3517375	NC_021166.1	Ca_kabuli_chr07	3517375	TT	CC	1946879130
SNP_P4_90575_3517436	NC_021166.1	Ca_kabuli_chr07	3517436	TT	CC	1946879132
SNP_P4_90576_3517523	NC_021166.1	Ca_kabuli_chr07	3517523	AA	TT	1946879134
SNP_P4_90577_3517847	NC_021166.1	Ca_kabuli_chr07	3517847	AA	CC	1946879136
SNP_P4_90578_3517851	NC_021166.1	Ca_kabuli_chr07	3517851	GG	AA	1946879138
SNP_P4_90579_3519084	NC_021166.1	Ca_kabuli_chr07	3519084	CC	TT	1946879140
SNP_P4_90580_3519094	NC_021166.1	Ca_kabuli_chr07	3519094	GG	TT	1946879142
SNP_P4_90581_3519336	NC_021166.1	Ca_kabuli_chr07	3519336	TT	GG	1946879144
SNP_P4_90582_3519471	NC_021166.1	Ca_kabuli_chr07	3519471	AA	TT	1946879146
SNP_P4_90583_3519510	NC_021166.1	Ca_kabuli_chr07	3519510	AA	GG	1946879148
SNP_P4_90584_3519746	NC_021166.1	Ca_kabuli_chr07	3519746	AA	GG	1946879150
SNP_P4_90585_3520643	NC_021166.1	Ca_kabuli_chr07	3520643	CC	TT	1946879152
SNP_P4_90586_3520644	NC_021166.1	Ca_kabuli_chr07	3520644	AA	GG	1946879154
SNP_P4_90588_3520966	NC_021166.1	Ca_kabuli_chr07	3520966	GG	TT	1946879156
SNP_P4_90589_3520976	NC_021166.1	Ca_kabuli_chr07	3520976	GG	AA	1946879158
SNP_P4_90590_3521013	NC_021166.1	Ca_kabuli_chr07	3521013	TT	CC	1946879160
SNP_P4_90591_3521192	NC_021166.1	Ca_kabuli_chr07	3521192	CC	AA	1946879162
SNP_P4_90593_3523032	NC_021166.1	Ca_kabuli_chr07	3523032	CC	AA	1946879164
SNP_P4_90594_3523762	NC_021166.1	Ca_kabuli_chr07	3523762	AA	GG	1946879166
SNP_P4_90595_3523887	NC_021166.1	Ca_kabuli_chr07	3523887	AA	GG	1946879168
SNP_P4_90596_3523961	NC_021166.1	Ca_kabuli_chr07	3523961	GG	AA	1946879170
SNP_P4_90597_3524251	NC_021166.1	Ca_kabuli_chr07	3524251	TT	CC	1946879172
SNP_P4_90598_3525023	NC_021166.1	Ca_kabuli_chr07	3525023	GG	CC	1946879174
SNP_P4_90599_3527104	NC_021166.1	Ca_kabuli_chr07	3527104	AA	GG	1946879176
SNP_P4_90600_3530011	NC_021166.1	Ca_kabuli_chr07	3530011	GG	AA	1946879178
SNP_P4_90601_3530094	NC_021166.1	Ca_kabuli_chr07	3530094	TT	AA	1946879180
SNP_P4_90602_3530682	NC_021166.1	Ca_kabuli_chr07	3530682	TT	AA	1946879182

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_90604_3531790	NC_021166.1	Ca_kabuli_chr07	3531790	TT	AA	1946879186
SNP_P4_90605_3532234	NC_021166.1	Ca_kabuli_chr07	3532234	GG	CC	1946879187
SNP_P4_90606_3532532	NC_021166.1	Ca_kabuli_chr07	3532532	AA	CC	1946879189
SNP_P4_90607_3532549	NC_021166.1	Ca_kabuli_chr07	3532549	CC	TT	1946879191
SNP_P4_90608_3532553	NC_021166.1	Ca_kabuli_chr07	3532553	TT	AA	1946879193
SNP_P4_90610_3536166	NC_021166.1	Ca_kabuli_chr07	3536166	CC	TT	1946879195
SNP_P4_90611_3536168	NC_021166.1	Ca_kabuli_chr07	3536168	GG	CC	1946879197
SNP_P4_90612_3536194	NC_021166.1	Ca_kabuli_chr07	3536194	CC	TT	1946879199
SNP_P4_90613_3536574	NC_021166.1	Ca_kabuli_chr07	3536574	CC	TT	1946879200
SNP_P4_90614_3536946	NC_021166.1	Ca_kabuli_chr07	3536946	TT	CC	1946879202
SNP_P4_90615_3539189	NC_021166.1	Ca_kabuli_chr07	3539189	CC	GG	1946879204
SNP_P4_90616_3539314	NC_021166.1	Ca_kabuli_chr07	3539314	AA	GG	1946879206
SNP_P4_90617_3539335	NC_021166.1	Ca_kabuli_chr07	3539335	CC	AA	1946879208
SNP_P4_90618_3539438	NC_021166.1	Ca_kabuli_chr07	3539438	AA	GG	1946879210
SNP_P4_90619_3539481	NC_021166.1	Ca_kabuli_chr07	3539481	AA	TT	1946879212
SNP_P4_90620_3539489	NC_021166.1	Ca_kabuli_chr07	3539489	GG	AA	1946879214
SNP_P4_90621_3539492	NC_021166.1	Ca_kabuli_chr07	3539492	GG	AA	1946879216
SNP_P4_90622_3539513	NC_021166.1	Ca_kabuli_chr07	3539513	TT	CC	1946879218
SNP_P4_90623_3539775	NC_021166.1	Ca_kabuli_chr07	3539775	AA	GG	1946879220
SNP_P4_90624_3539778	NC_021166.1	Ca_kabuli_chr07	3539778	AA	TT	1946879222
SNP_P4_90625_3540114	NC_021166.1	Ca_kabuli_chr07	3540114	GG	TT	1946879224
SNP_P4_90627_3540149	NC_021166.1	Ca_kabuli_chr07	3540149	AA	TT	1946879226
SNP_P4_90630_3540728	NC_021166.1	Ca_kabuli_chr07	3540728	CC	TT	1946879227
SNP_P4_90631_3540743	NC_021166.1	Ca_kabuli_chr07	3540743	TT	AA	1946879229
SNP_P4_90632_3540884	NC_021166.1	Ca_kabuli_chr07	3540884	GG	AA	1946879231
SNP_P4_90633_3540918	NC_021166.1	Ca_kabuli_chr07	3540918	AA	CC	1946879233
SNP_P4_90634_3542393	NC_021166.1	Ca_kabuli_chr07	3542393	GG	TT	1946879235
SNP_P4_90635_3542482	NC_021166.1	Ca_kabuli_chr07	3542482	GG	TT	1946879237
SNP_P4_90636_3542514	NC_021166.1	Ca_kabuli_chr07	3542514	AA	CC	1946879238
SNP_P4_90637_3542529	NC_021166.1	Ca_kabuli_chr07	3542529	TT	CC	1946879239
SNP_P4_90638_3544116	NC_021166.1	Ca_kabuli_chr07	3544116	GG	TT	1946879240
SNP_P4_90639_3544183	NC_021166.1	Ca_kabuli_chr07	3544183	AA	GG	1946879241
SNP_P4_90640_3544190	NC_021166.1	Ca_kabuli_chr07	3544190	TT	GG	1946879242
SNP_P4_90641_3544358	NC_021166.1	Ca_kabuli_chr07	3544358	GG	CC	1946879243
SNP_P4_90643_3544456	NC_021166.1	Ca_kabuli_chr07	3544456	GG	TT	1946879244
SNP_P4_90644_3544511	NC_021166.1	Ca_kabuli_chr07	3544511	CC	GG	1946879245
SNP_P4_90645_3544577	NC_021166.1	Ca_kabuli_chr07	3544577	AA	CC	1946879246
SNP_P4_90646_3545093	NC_021166.1	Ca_kabuli_chr07	3545093	GG	TT	1946879247
SNP_P4_90647_3545118	NC_021166.1	Ca_kabuli_chr07	3545118	GG	CC	1946879248
SNP_P4_90648_3546246	NC_021166.1	Ca_kabuli_chr07	3546246	TT	CC	1946879250
SNP_P4_90649_3546849	NC_021166.1	Ca_kabuli_chr07	3546849	CC	TT	1946879252

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_90651_3550546	NC_021166.1	Ca_kabuli_chr07	3550546	AA	CC	1946879256
SNP_P4_90652_3550584	NC_021166.1	Ca_kabuli_chr07	3550584	CC	TT	1946879258
SNP_P4_90653_3550811	NC_021166.1	Ca_kabuli_chr07	3550811	GG	AA	1946879260
SNP_P4_90654_3550836	NC_021166.1	Ca_kabuli_chr07	3550836	GG	AA	1946879262
SNP_P4_90655_3550944	NC_021166.1	Ca_kabuli_chr07	3550944	CC	TT	1946879264
SNP_P4_90656_3550946	NC_021166.1	Ca_kabuli_chr07	3550946	TT	CC	1946879266
SNP_P4_90657_3550965	NC_021166.1	Ca_kabuli_chr07	3550965	TT	CC	1946879268
SNP_P4_90658_3551421	NC_021166.1	Ca_kabuli_chr07	3551421	AA	TT	1946879270
SNP_P4_90659_3551762	NC_021166.1	Ca_kabuli_chr07	3551762	GG	AA	1946879272
SNP_P4_90660_3551766	NC_021166.1	Ca_kabuli_chr07	3551766	GG	AA	1946879274
SNP_P4_90661_3551785	NC_021166.1	Ca_kabuli_chr07	3551785	TT	GG	1946879276
SNP_P4_90662_3551786	NC_021166.1	Ca_kabuli_chr07	3551786	TT	AA	1946879278
SNP_P4_90663_3551789	NC_021166.1	Ca_kabuli_chr07	3551789	TT	AA	1946879280
SNP_P4_90664_3551856	NC_021166.1	Ca_kabuli_chr07	3551856	CC	TT	1946879282
SNP_P4_90665_3551878	NC_021166.1	Ca_kabuli_chr07	3551878	AA	TT	1946879284
SNP_P4_90666_3551911	NC_021166.1	Ca_kabuli_chr07	3551911	CC	TT	1946879286
SNP_P4_90667_3551920	NC_021166.1	Ca_kabuli_chr07	3551920	CC	TT	1946879288
SNP_P4_90668_3551951	NC_021166.1	Ca_kabuli_chr07	3551951	AA	CC	1946879290
SNP_P4_90669_3551954	NC_021166.1	Ca_kabuli_chr07	3551954	AA	CC	1946879292
SNP_P4_90671_3553014	NC_021166.1	Ca_kabuli_chr07	3553014	TT	CC	1946879294
SNP_P4_90672_3553091	NC_021166.1	Ca_kabuli_chr07	3553091	CC	TT	1946879296
SNP_P4_90673_3553326	NC_021166.1	Ca_kabuli_chr07	3553326	TT	GG	1946879298
SNP_P4_90675_3553357	NC_021166.1	Ca_kabuli_chr07	3553357	TT	CC	1946879300
SNP_P4_90676_3554567	NC_021166.1	Ca_kabuli_chr07	3554567	CC	AA	1946879301
SNP_P4_90677_3556801	NC_021166.1	Ca_kabuli_chr07	3556801	TT	CC	1946879303
SNP_P4_90678_3558443	NC_021166.1	Ca_kabuli_chr07	3558443	AA	GG	1946879305
SNP_P4_90679_3560423	NC_021166.1	Ca_kabuli_chr07	3560423	GG	CC	1946879307
SNP_P4_90680_3563520	NC_021166.1	Ca_kabuli_chr07	3563520	AA	GG	1946879309
SNP_P4_90681_3563528	NC_021166.1	Ca_kabuli_chr07	3563528	TT	GG	1946879311
SNP_P4_90682_3563531	NC_021166.1	Ca_kabuli_chr07	3563531	AA	TT	1946879313
SNP_P4_90683_3565261	NC_021166.1	Ca_kabuli_chr07	3565261	AA	CC	1946879315
SNP_P4_90684_3565269	NC_021166.1	Ca_kabuli_chr07	3565269	AA	GG	1946879317
SNP_P4_90685_3566132	NC_021166.1	Ca_kabuli_chr07	3566132	TT	GG	1946879319
SNP_P4_90686_3567816	NC_021166.1	Ca_kabuli_chr07	3567816	AA	GG	1946879321
SNP_P4_90688_3567911	NC_021166.1	Ca_kabuli_chr07	3567911	CC	TT	1946879323
SNP_P4_90689_3569432	NC_021166.1	Ca_kabuli_chr07	3569432	GG	AA	1946879325
SNP_P4_90692_3571787	NC_021166.1	Ca_kabuli_chr07	3571787	GG	AA	1946879327
SNP_P4_90694_3572058	NC_021166.1	Ca_kabuli_chr07	3572058	TT	CC	1946879329
SNP_P4_90695_3575574	NC_021166.1	Ca_kabuli_chr07	3575574	GG	TT	1946879331
SNP_P4_90696_3577101	NC_021166.1	Ca_kabuli_chr07	3577101	CC	AA	1946879334
SNP_P4_90697_3577144	NC_021166.1	Ca_kabuli_chr07	3577144	CC	GG	1946879336

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_90699_3578018	NC_021166.1	Ca_kabuli_chr07	3578018	TT	CC	1946879340
SNP_P4_90700_3579780	NC_021166.1	Ca_kabuli_chr07	3579780	TT	GG	1946879342
SNP_P4_90701_3580090	NC_021166.1	Ca_kabuli_chr07	3580090	CC	TT	1946879344
SNP_P4_90702_3580147	NC_021166.1	Ca_kabuli_chr07	3580147	AA	TT	1946879346
SNP_P4_90704_3580431	NC_021166.1	Ca_kabuli_chr07	3580431	CC	TT	1946879348
SNP_P4_90705_3580487	NC_021166.1	Ca_kabuli_chr07	3580487	TT	CC	1946879350
SNP_P4_90707_3581533	NC_021166.1	Ca_kabuli_chr07	3581533	CC	GG	1946879352
SNP_P4_90709_3582862	NC_021166.1	Ca_kabuli_chr07	3582862	GG	AA	1946879354
SNP_P4_90711_3583058	NC_021166.1	Ca_kabuli_chr07	3583058	CC	TT	1946879356
SNP_P4_90712_3583932	NC_021166.1	Ca_kabuli_chr07	3583932	GG	AA	1946879358
SNP_P4_90713_3585994	NC_021166.1	Ca_kabuli_chr07	3585994	AA	GG	1946879360
SNP_P4_90714_3586433	NC_021166.1	Ca_kabuli_chr07	3586433	CC	TT	1946879362
SNP_P4_90715_3587323	NC_021166.1	Ca_kabuli_chr07	3587323	TT	GG	1946879364
SNP_P4_90716_3587974	NC_021166.1	Ca_kabuli_chr07	3587974	AA	GG	1946879366
SNP_P4_90719_3588479	NC_021166.1	Ca_kabuli_chr07	3588479	AA	TT	1946879368
SNP_P4_90720_3589129	NC_021166.1	Ca_kabuli_chr07	3589129	TT	CC	1946879463
SNP_P4_90721_3590196	NC_021166.1	Ca_kabuli_chr07	3590196	TT	GG	1946879465
SNP_P4_90722_3590713	NC_021166.1	Ca_kabuli_chr07	3590713	AA	CC	1946879467
SNP_P4_90723_3592870	NC_021166.1	Ca_kabuli_chr07	3592870	CC	AA	1946879469
SNP_P4_90725_3593800	NC_021166.1	Ca_kabuli_chr07	3593800	GG	AA	1946879471
SNP_P4_90726_3594282	NC_021166.1	Ca_kabuli_chr07	3594282	TT	CC	1946879473
SNP_P4_90727_3594699	NC_021166.1	Ca_kabuli_chr07	3594699	AA	TT	1946879475
SNP_P4_90728_3595935	NC_021166.1	Ca_kabuli_chr07	3595935	TT	CC	1946879477
SNP_P4_90729_3596676	NC_021166.1	Ca_kabuli_chr07	3596676	CC	AA	1946879479
SNP_P4_90730_3598926	NC_021166.1	Ca_kabuli_chr07	3598926	GG	AA	1946879482
SNP_P4_90732_3599352	NC_021166.1	Ca_kabuli_chr07	3599352	CC	TT	1946879484
SNP_P4_90733_3599379	NC_021166.1	Ca_kabuli_chr07	3599379	TT	CC	1946879486
SNP_P4_90734_3599709	NC_021166.1	Ca_kabuli_chr07	3599709	AA	CC	1946879488
SNP_P4_90735_3599947	NC_021166.1	Ca_kabuli_chr07	3599947	GG	CC	1946879490
SNP_P4_90736_3600016	NC_021166.1	Ca_kabuli_chr07	3600016	TT	AA	1946879492
SNP_P4_90737_3601454	NC_021166.1	Ca_kabuli_chr07	3601454	CC	GG	1946879494
SNP_P4_90738_3601804	NC_021166.1	Ca_kabuli_chr07	3601804	GG	AA	1946879496
SNP_P4_90739_3601818	NC_021166.1	Ca_kabuli_chr07	3601818	GG	AA	1946879498
SNP_P4_90740_3601870	NC_021166.1	Ca_kabuli_chr07	3601870	TT	AA	1946879500
SNP_P4_90741_3601982	NC_021166.1	Ca_kabuli_chr07	3601982	TT	CC	1946879502
SNP_P4_90742_3602270	NC_021166.1	Ca_kabuli_chr07	3602270	CC	TT	1946879504
SNP_P4_90743_3603986	NC_021166.1	Ca_kabuli_chr07	3603986	TT	AA	1946879506
SNP_P4_90744_3603988	NC_021166.1	Ca_kabuli_chr07	3603988	TT	AA	1946879508
SNP_P4_90745_3603998	NC_021166.1	Ca_kabuli_chr07	3603998	GG	AA	1946879510
SNP_P4_90746_3604018	NC_021166.1	Ca_kabuli_chr07	3604018	TT	CC	1946879512
SNP_P4_90747_3604157	NC_021166.1	Ca_kabuli_chr07	3604157	GG	CC	1946879514

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_90748_3604178	NC_021166.1	Ca_kabuli_chr07	3604178	AA	GG	1946879516
SNP_P4_90749_3604179	NC_021166.1	Ca_kabuli_chr07	3604179	GG	AA	1946879518
SNP_P4_90750_3604194	NC_021166.1	Ca_kabuli_chr07	3604194	TT	GG	1946879521
SNP_P4_90751_3604197	NC_021166.1	Ca_kabuli_chr07	3604197	CC	TT	1946879523
SNP_P4_90752_3604243	NC_021166.1	Ca_kabuli_chr07	3604243	GG	AA	1946879525
SNP_P4_90753_3604321	NC_021166.1	Ca_kabuli_chr07	3604321	TT	CC	1946879527
SNP_P4_90754_3604727	NC_021166.1	Ca_kabuli_chr07	3604727	CC	TT	1946879529
SNP_P4_90755_3605024	NC_021166.1	Ca_kabuli_chr07	3605024	AA	GG	1946879531
SNP_P4_90756_3605174	NC_021166.1	Ca_kabuli_chr07	3605174	AA	GG	1946879533
SNP_P4_90757_3605260	NC_021166.1	Ca_kabuli_chr07	3605260	AA	TT	1946879535
SNP_P4_90758_3606679	NC_021166.1	Ca_kabuli_chr07	3606679	CC	TT	1946879537
SNP_P4_90759_3607738	NC_021166.1	Ca_kabuli_chr07	3607738	CC	TT	1946879539
SNP_P4_90760_3607740	NC_021166.1	Ca_kabuli_chr07	3607740	CC	GG	1946879541
SNP_P4_90761_3607796	NC_021166.1	Ca_kabuli_chr07	3607796	AA	TT	1946879543
SNP_P4_90762_3608131	NC_021166.1	Ca_kabuli_chr07	3608131	TT	AA	1946879545
SNP_P4_90765_3608427	NC_021166.1	Ca_kabuli_chr07	3608427	AA	CC	1946879547
SNP_P4_90766_3608522	NC_021166.1	Ca_kabuli_chr07	3608522	GG	CC	1946879549
SNP_P4_90767_3608546	NC_021166.1	Ca_kabuli_chr07	3608546	CC	TT	1946879551
SNP_P4_90768_3608589	NC_021166.1	Ca_kabuli_chr07	3608589	CC	GG	1946879553
SNP_P4_90769_3608858	NC_021166.1	Ca_kabuli_chr07	3608858	TT	CC	1946879555
SNP_P4_90770_3608914	NC_021166.1	Ca_kabuli_chr07	3608914	CC	GG	1946879557
SNP_P4_90772_3609437	NC_021166.1	Ca_kabuli_chr07	3609437	GG	AA	1946879559
SNP_P4_90773_3610314	NC_021166.1	Ca_kabuli_chr07	3610314	AA	GG	1946879561
SNP_P4_90775_3611253	NC_021166.1	Ca_kabuli_chr07	3611253	AA	GG	1946879563
SNP_P4_90776_3611542	NC_021166.1	Ca_kabuli_chr07	3611542	AA	GG	1946879565
SNP_P4_90777_3611942	NC_021166.1	Ca_kabuli_chr07	3611942	TT	CC	1946879567
SNP_P4_90778_3612205	NC_021166.1	Ca_kabuli_chr07	3612205	AA	GG	1946879569
SNP_P4_90779_3612412	NC_021166.1	Ca_kabuli_chr07	3612412	AA	CC	1946879571
SNP_P4_90780_3612426	NC_021166.1	Ca_kabuli_chr07	3612426	GG	CC	1946879573
SNP_P4_90781_3612432	NC_021166.1	Ca_kabuli_chr07	3612432	GG	AA	1946879575
SNP_P4_90782_3612435	NC_021166.1	Ca_kabuli_chr07	3612435	AA	TT	1946879577
SNP_P4_90783_3612471	NC_021166.1	Ca_kabuli_chr07	3612471	AA	GG	1946879579
SNP_P4_90784_3612582	NC_021166.1	Ca_kabuli_chr07	3612582	GG	AA	1946879581
SNP_P4_90786_3612825	NC_021166.1	Ca_kabuli_chr07	3612825	AA	TT	1946879583
SNP_P4_90787_3612954	NC_021166.1	Ca_kabuli_chr07	3612954	AA	GG	1946879585
SNP_P4_90789_3613014	NC_021166.1	Ca_kabuli_chr07	3613014	GG	CC	1946879586
SNP_P4_90791_3613300	NC_021166.1	Ca_kabuli_chr07	3613300	TT	AA	1946879588
SNP_P4_90792_3613399	NC_021166.1	Ca_kabuli_chr07	3613399	AA	GG	1946879590
SNP_P4_90793_3613455	NC_021166.1	Ca_kabuli_chr07	3613455	GG	AA	1946879593
SNP_P4_90794_3613582	NC_021166.1	Ca_kabuli_chr07	3613582	GG	TT	1946879595
SNP_P4_90797_3614338	NC_021166.1	Ca_kabuli_chr07	3614338	CC	AA	1946879597
SNP_P4_90798_3614474	NC_021166.1	Ca_kabuli_chr07	3614474	GG	TT	1946879599

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_90800_3614966	NC_021166.1	Ca_kabuli_chr07	3614966	CC	GG	1946879603
SNP_P4_90801_3614998	NC_021166.1	Ca_kabuli_chr07	3614998	AA	GG	1946879605
SNP_P4_90802_3615111	NC_021166.1	Ca_kabuli_chr07	3615111	GG	CC	1946879607
SNP_P4_90803_3615240	NC_021166.1	Ca_kabuli_chr07	3615240	AA	GG	1946879609
SNP_P4_90804_3615304	NC_021166.1	Ca_kabuli_chr07	3615304	AA	CC	1946879611
SNP_P4_90805_3615378	NC_021166.1	Ca_kabuli_chr07	3615378	CC	AA	1946879613
SNP_P4_90806_3615574	NC_021166.1	Ca_kabuli_chr07	3615574	TT	AA	1946879615
SNP_P4_90807_3615632	NC_021166.1	Ca_kabuli_chr07	3615632	AA	GG	1946879617
SNP_P4_90808_3615642	NC_021166.1	Ca_kabuli_chr07	3615642	TT	CC	1946879619
SNP_P4_90809_3615938	NC_021166.1	Ca_kabuli_chr07	3615938	AA	GG	1946879620
SNP_P4_90810_3616131	NC_021166.1	Ca_kabuli_chr07	3616131	CC	TT	1946879622
SNP_P4_90811_3616145	NC_021166.1	Ca_kabuli_chr07	3616145	TT	GG	1946879624
SNP_P4_90812_3616275	NC_021166.1	Ca_kabuli_chr07	3616275	CC	TT	1946879626
SNP_P4_90813_3616415	NC_021166.1	Ca_kabuli_chr07	3616415	CC	GG	1946879628
SNP_P4_90814_3616758	NC_021166.1	Ca_kabuli_chr07	3616758	GG	AA	1946879630
SNP_P4_90815_3617367	NC_021166.1	Ca_kabuli_chr07	3617367	AA	TT	1946879632
SNP_P4_90817_3618166	NC_021166.1	Ca_kabuli_chr07	3618166	TT	CC	1946879634
SNP_P4_90818_3618170	NC_021166.1	Ca_kabuli_chr07	3618170	GG	AA	1946879636
SNP_P4_90819_3618242	NC_021166.1	Ca_kabuli_chr07	3618242	TT	CC	1946879638
SNP_P4_90820_3618278	NC_021166.1	Ca_kabuli_chr07	3618278	TT	CC	1946879640
SNP_P4_90821_3618310	NC_021166.1	Ca_kabuli_chr07	3618310	GG	AA	1946879642
SNP_P4_90822_3618702	NC_021166.1	Ca_kabuli_chr07	3618702	TT	CC	1946879643
SNP_P4_90823_3618839	NC_021166.1	Ca_kabuli_chr07	3618839	TT	GG	1946879645
SNP_P4_90824_3619792	NC_021166.1	Ca_kabuli_chr07	3619792	TT	GG	1946879647
SNP_P4_90825_3620593	NC_021166.1	Ca_kabuli_chr07	3620593	AA	CC	1946879649
SNP_P4_90827_3621075	NC_021166.1	Ca_kabuli_chr07	3621075	CC	TT	1946879651
SNP_P4_90828_3621102	NC_021166.1	Ca_kabuli_chr07	3621102	TT	CC	1946879653
SNP_P4_90829_3621274	NC_021166.1	Ca_kabuli_chr07	3621274	TT	CC	1946879655
SNP_P4_90831_3621451	NC_021166.1	Ca_kabuli_chr07	3621451	TT	CC	1946879657
SNP_P4_90832_3621482	NC_021166.1	Ca_kabuli_chr07	3621482	CC	AA	1946879659
SNP_P4_90833_3621529	NC_021166.1	Ca_kabuli_chr07	3621529	CC	TT	1946879661
SNP_P4_90836_3622175	NC_021166.1	Ca_kabuli_chr07	3622175	TT	AA	1946879663
SNP_P4_90837_3622237	NC_021166.1	Ca_kabuli_chr07	3622237	AA	GG	1946879665
SNP_P4_90838_3622346	NC_021166.1	Ca_kabuli_chr07	3622346	TT	CC	1946879667
SNP_P4_90839_3622509	NC_021166.1	Ca_kabuli_chr07	3622509	CC	TT	1946879669
SNP_P4_90840_3622511	NC_021166.1	Ca_kabuli_chr07	3622511	AA	TT	1946879671
SNP_P4_90842_3622687	NC_021166.1	Ca_kabuli_chr07	3622687	TT	AA	1946879673
SNP_P4_90843_3622766	NC_021166.1	Ca_kabuli_chr07	3622766	GG	AA	1946879675
SNP_P4_90845_3622962	NC_021166.1	Ca_kabuli_chr07	3622962	GG	AA	1946879677
SNP_P4_90846_3624928	NC_021166.1	Ca_kabuli_chr07	3624928	TT	AA	1946879679
SNP_P4_90847_3626303	NC_021166.1	Ca_kabuli_chr07	3626303	TT	AA	1946879681

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_90850_3630219	NC_021166.1	Ca_kabuli_chr07	3630219	GG	AA	1946879685
SNP_P4_90851_3631107	NC_021166.1	Ca_kabuli_chr07	3631107	CC	GG	1946879687
SNP_P4_90852_3631661	NC_021166.1	Ca_kabuli_chr07	3631661	TT	GG	1946879690
SNP_P4_90853_3631945	NC_021166.1	Ca_kabuli_chr07	3631945	GG	AA	1946879692
SNP_P4_90855_3632930	NC_021166.1	Ca_kabuli_chr07	3632930	GG	CC	1946879694
SNP_P4_90856_3633555	NC_021166.1	Ca_kabuli_chr07	3633555	GG	TT	1946879696
SNP_P4_90857_3633679	NC_021166.1	Ca_kabuli_chr07	3633679	AA	GG	1946879698
SNP_P4_90858_3633912	NC_021166.1	Ca_kabuli_chr07	3633912	TT	CC	1946879700
SNP_P4_90859_3635713	NC_021166.1	Ca_kabuli_chr07	3635713	GG	TT	1946879702
SNP_P4_90860_3637802	NC_021166.1	Ca_kabuli_chr07	3637802	GG	AA	1946879704
SNP_P4_90861_3638391	NC_021166.1	Ca_kabuli_chr07	3638391	TT	CC	1946879706
SNP_P4_90864_3639525	NC_021166.1	Ca_kabuli_chr07	3639525	TT	CC	1946879708
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SNP_P4_90866_3640541	NC_021166.1	Ca_kabuli_chr07	3640541	TT	AA	1946879712
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SNP_P4_90870_3643528	NC_021166.1	Ca_kabuli_chr07	3643528	AA	GG	1946879718
SNP_P4_90871_3643534	NC_021166.1	Ca_kabuli_chr07	3643534	GG	TT	1946879721
SNP_P4_90872_3644241	NC_021166.1	Ca_kabuli_chr07	3644241	TT	CC	1946879723
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SNP_P4_90875_3648179	NC_021166.1	Ca_kabuli_chr07	3648179	TT	CC	1946879729
SNP_P4_90876_3648183	NC_021166.1	Ca_kabuli_chr07	3648183	TT	CC	1946879731
SNP_P4_90877_3648184	NC_021166.1	Ca_kabuli_chr07	3648184	GG	AA	1946879733
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SNP_P4_90879_3648232	NC_021166.1	Ca_kabuli_chr07	3648232	AA	GG	1946879737
SNP_P4_90880_3648234	NC_021166.1	Ca_kabuli_chr07	3648234	TT	CC	1946879739
SNP_P4_90881_3648237	NC_021166.1	Ca_kabuli_chr07	3648237	TT	CC	1946879741
SNP_P4_90882_3648253	NC_021166.1	Ca_kabuli_chr07	3648253	AA	GG	1946879743
SNP_P4_90883_3648259	NC_021166.1	Ca_kabuli_chr07	3648259	TT	CC	1946879745
SNP_P4_90884_3648262	NC_021166.1	Ca_kabuli_chr07	3648262	TT	CC	1946879747
SNP_P4_90885_3648266	NC_021166.1	Ca_kabuli_chr07	3648266	GG	AA	1946879749
SNP_P4_90886_3648269	NC_021166.1	Ca_kabuli_chr07	3648269	GG	AA	1946879751
SNP_P4_90887_3648469	NC_021166.1	Ca_kabuli_chr07	3648469	AA	CC	1946879754
SNP_P4_90888_3649013	NC_021166.1	Ca_kabuli_chr07	3649013	TT	CC	1946879756
SNP_P4_90890_3650612	NC_021166.1	Ca_kabuli_chr07	3650612	TT	CC	1946879758
SNP_P4_90891_3650667	NC_021166.1	Ca_kabuli_chr07	3650667	TT	GG	1946879759
SNP_P4_90892_3650840	NC_021166.1	Ca_kabuli_chr07	3650840	TT	CC	1946879760
SNP_P4_90893_3650855	NC_021166.1	Ca_kabuli_chr07	3650855	AA	GG	1946879761
SNP_P4_90894_3651051	NC_021166.1	Ca_kabuli_chr07	3651051	TT	CC	1946879762
SNP_P4_90895_3652399	NC_021166.1	Ca_kabuli_chr07	3652399	GG	AA	1946879763

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_90898_3654516	NC_021166.1	Ca_kabuli_chr07	3654516	TT	CC	1946879766
SNP_P4_90900_3654907	NC_021166.1	Ca_kabuli_chr07	3654907	TT	AA	1946879768
SNP_P4_90901_3654914	NC_021166.1	Ca_kabuli_chr07	3654914	GG	AA	1946879770
SNP_P4_90902_3655218	NC_021166.1	Ca_kabuli_chr07	3655218	AA	TT	1946879772
SNP_P4_90903_3655225	NC_021166.1	Ca_kabuli_chr07	3655225	GG	AA	1946879774
SNP_P4_90904_3655278	NC_021166.1	Ca_kabuli_chr07	3655278	GG	TT	1946879776
SNP_P4_90905_3655304	NC_021166.1	Ca_kabuli_chr07	3655304	TT	CC	1946879778
SNP_P4_90906_3656594	NC_021166.1	Ca_kabuli_chr07	3656594	GG	AA	1946879780
SNP_P4_90907_3658356	NC_021166.1	Ca_kabuli_chr07	3658356	TT	AA	1946879782
SNP_P4_90908_3659759	NC_021166.1	Ca_kabuli_chr07	3659759	AA	GG	1946879784
SNP_P4_90909_3662033	NC_021166.1	Ca_kabuli_chr07	3662033	CC	TT	1946879786
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SNP_P4_90912_3665344	NC_021166.1	Ca_kabuli_chr07	3665344	TT	CC	1946879792
SNP_P4_90913_3665445	NC_021166.1	Ca_kabuli_chr07	3665445	AA	GG	1946879794
SNP_P4_90914_3665915	NC_021166.1	Ca_kabuli_chr07	3665915	CC	AA	1946879796
SNP_P4_90915_3666818	NC_021166.1	Ca_kabuli_chr07	3666818	AA	CC	1946879798
SNP_P4_90916_3668142	NC_021166.1	Ca_kabuli_chr07	3668142	TT	GG	1946879800
SNP_P4_90918_3669315	NC_021166.1	Ca_kabuli_chr07	3669315	TT	CC	1946879802
SNP_P4_90919_3669665	NC_021166.1	Ca_kabuli_chr07	3669665	TT	CC	1946879805
SNP_P4_90920_3670183	NC_021166.1	Ca_kabuli_chr07	3670183	AA	TT	1946879807
SNP_P4_90922_3670779	NC_021166.1	Ca_kabuli_chr07	3670779	TT	CC	1946879809
SNP_P4_90923_3670964	NC_021166.1	Ca_kabuli_chr07	3670964	TT	AA	1946879811
SNP_P4_90924_3671055	NC_021166.1	Ca_kabuli_chr07	3671055	CC	TT	1946879813
SNP_P4_90925_3671092	NC_021166.1	Ca_kabuli_chr07	3671092	TT	CC	1946879815
SNP_P4_90926_3671095	NC_021166.1	Ca_kabuli_chr07	3671095	AA	GG	1946879817
SNP_P4_90927_3671846	NC_021166.1	Ca_kabuli_chr07	3671846	CC	TT	1946879819
SNP_P4_90929_3672192	NC_021166.1	Ca_kabuli_chr07	3672192	TT	CC	1946879821
SNP_P4_90930_3672944	NC_021166.1	Ca_kabuli_chr07	3672944	GG	AA	1946879823
SNP_P4_90931_3673197	NC_021166.1	Ca_kabuli_chr07	3673197	TT	GG	1946879825
SNP_P4_90932_3674075	NC_021166.1	Ca_kabuli_chr07	3674075	AA	GG	1946879827
SNP_P4_90933_3674133	NC_021166.1	Ca_kabuli_chr07	3674133	TT	CC	1946879829
SNP_P4_90934_3674396	NC_021166.1	Ca_kabuli_chr07	3674396	TT	GG	1946879831
SNP_P4_90935_3675539	NC_021166.1	Ca_kabuli_chr07	3675539	AA	GG	1946879833
SNP_P4_90936_3675615	NC_021166.1	Ca_kabuli_chr07	3675615	GG	AA	1946879835
SNP_P4_90937_3676807	NC_021166.1	Ca_kabuli_chr07	3676807	AA	TT	1946879837
SNP_P4_90938_3676808	NC_021166.1	Ca_kabuli_chr07	3676808	TT	AA	1946879839
SNP_P4_90940_3677457	NC_021166.1	Ca_kabuli_chr07	3677457	GG	AA	1946879841
SNP_P4_90941_3677839	NC_021166.1	Ca_kabuli_chr07	3677839	AA	GG	1946879843
SNP_P4_90942_3678793	NC_021166.1	Ca_kabuli_chr07	3678793	TT	CC	1946879845
SNP_P4_90943_3678797	NC_021166.1	Ca_kabuli_chr07	3678797	AA	GG	1946879847

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_90944_3678972	NC_021166.1	Ca_kabuli_chr07	3678972	CC	AA	1946879849
SNP_P4_90945_3679001	NC_021166.1	Ca_kabuli_chr07	3679001	GG	AA	1946879851
SNP_P4_90946_3679084	NC_021166.1	Ca_kabuli_chr07	3679084	GG	AA	1946879853
SNP_P4_90947_3679217	NC_021166.1	Ca_kabuli_chr07	3679217	TT	CC	1946879855
SNP_P4_90948_3679222	NC_021166.1	Ca_kabuli_chr07	3679222	TT	CC	1946879857
SNP_P4_90949_3682059	NC_021166.1	Ca_kabuli_chr07	3682059	TT	GG	1946879859
SNP_P4_90951_3682258	NC_021166.1	Ca_kabuli_chr07	3682258	TT	CC	1946879861
SNP_P4_90952_3682345	NC_021166.1	Ca_kabuli_chr07	3682345	AA	GG	1946879863
SNP_P4_90953_3682751	NC_021166.1	Ca_kabuli_chr07	3682751	CC	TT	1946879865
SNP_P4_90954_3682764	NC_021166.1	Ca_kabuli_chr07	3682764	AA	GG	1946879867
SNP_P4_90955_3682792	NC_021166.1	Ca_kabuli_chr07	3682792	AA	CC	1946879869
SNP_P4_90957_3683054	NC_021166.1	Ca_kabuli_chr07	3683054	CC	AA	1946879871
SNP_P4_90959_3683327	NC_021166.1	Ca_kabuli_chr07	3683327	TT	CC	1946879873
SNP_P4_90960_3683683	NC_021166.1	Ca_kabuli_chr07	3683683	TT	CC	1946879875
SNP_P4_90964_3684725	NC_021166.1	Ca_kabuli_chr07	3684725	CC	TT	1946879877
SNP_P4_90965_3684742	NC_021166.1	Ca_kabuli_chr07	3684742	CC	TT	1946879879
SNP_P4_90967_3685040	NC_021166.1	Ca_kabuli_chr07	3685040	TT	AA	1946879881
SNP_P4_90968_3685041	NC_021166.1	Ca_kabuli_chr07	3685041	AA	TT	1946879882
SNP_P4_90970_3685111	NC_021166.1	Ca_kabuli_chr07	3685111	AA	TT	1946879884
SNP_P4_90971_3686716	NC_021166.1	Ca_kabuli_chr07	3686716	CC	TT	1946879886
SNP_P4_90972_3686763	NC_021166.1	Ca_kabuli_chr07	3686763	AA	TT	1946879888
SNP_P4_90973_3686776	NC_021166.1	Ca_kabuli_chr07	3686776	CC	AA	1946879891
SNP_P4_90974_3686787	NC_021166.1	Ca_kabuli_chr07	3686787	TT	CC	1946879893
SNP_P4_90975_3686792	NC_021166.1	Ca_kabuli_chr07	3686792	CC	TT	1946879895
SNP_P4_90976_3686999	NC_021166.1	Ca_kabuli_chr07	3686999	CC	TT	1946879897
SNP_P4_90977_3687028	NC_021166.1	Ca_kabuli_chr07	3687028	AA	GG	1946879899
SNP_P4_90979_3687144	NC_021166.1	Ca_kabuli_chr07	3687144	TT	GG	1946879901
SNP_P4_90980_3687147	NC_021166.1	Ca_kabuli_chr07	3687147	TT	CC	1946879903
SNP_P4_90981_3688909	NC_021166.1	Ca_kabuli_chr07	3688909	CC	TT	1946879905
SNP_P4_90984_3689269	NC_021166.1	Ca_kabuli_chr07	3689269	TT	AA	1946879907
SNP_P4_90985_3689297	NC_021166.1	Ca_kabuli_chr07	3689297	GG	TT	1946879909
SNP_P4_90987_3689581	NC_021166.1	Ca_kabuli_chr07	3689581	CC	AA	1946879911
SNP_P4_90988_3689590	NC_021166.1	Ca_kabuli_chr07	3689590	GG	AA	1946879913
SNP_P4_90989_3689667	NC_021166.1	Ca_kabuli_chr07	3689667	TT	AA	1946879915
SNP_P4_90991_3690098	NC_021166.1	Ca_kabuli_chr07	3690098	CC	AA	1946879917
SNP_P4_90992_3690114	NC_021166.1	Ca_kabuli_chr07	3690114	GG	TT	1946879919
SNP_P4_90993_3690142	NC_021166.1	Ca_kabuli_chr07	3690142	TT	CC	1946879921
SNP_P4_90994_3690917	NC_021166.1	Ca_kabuli_chr07	3690917	CC	GG	1946879923
SNP_P4_90995_3690921	NC_021166.1	Ca_kabuli_chr07	3690921	TT	CC	1946879925
SNP_P4_90996_3691425	NC_021166.1	Ca_kabuli_chr07	3691425	AA	TT	1946879927
SNP_P4_90997_3691426	NC_021166.1	Ca_kabuli_chr07	3691426	TT	GG	1946879929
SNP_P4_90998_3691441	NC_021166.1	Ca_kabuli_chr07	3691441	CC	TT	1946879931

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_91000_3694084	NC_021166.1	Ca_kabuli_chr07	3694084	TT	AA	1946879935
SNP_P4_91001_3695446	NC_021166.1	Ca_kabuli_chr07	3695446	GG	AA	1946879937
SNP_P4_91003_3712898	NC_021166.1	Ca_kabuli_chr07	3712898	AA	TT	1946879939
SNP_P4_91004_3721492	NC_021166.1	Ca_kabuli_chr07	3721492	TT	CC	1946879941
SNP_P4_91005_3721866	NC_021166.1	Ca_kabuli_chr07	3721866	AA	GG	1946879943
SNP_P4_91006_3731853	NC_021166.1	Ca_kabuli_chr07	3731853	GG	CC	1946879945
SNP_P4_91009_3755133	NC_021166.1	Ca_kabuli_chr07	3755133	TT	CC	1946879947
SNP_P4_91010_3772068	NC_021166.1	Ca_kabuli_chr07	3772068	TT	CC	1946879949
SNP_P4_91011_3779212	NC_021166.1	Ca_kabuli_chr07	3779212	TT	AA	1946879951
SNP_P4_91012_3779213	NC_021166.1	Ca_kabuli_chr07	3779213	TT	AA	1946879953
SNP_P4_91015_3836581	NC_021166.1	Ca_kabuli_chr07	3836581	TT	CC	1946879955
SNP_P4_91016_3843855	NC_021166.1	Ca_kabuli_chr07	3843855	CC	TT	1946879957
SNP_P4_91017_3848017	NC_021166.1	Ca_kabuli_chr07	3848017	GG	AA	1946879959
SNP_P4_91018_3885197	NC_021166.1	Ca_kabuli_chr07	3885197	AA	TT	1946879961
SNP_P4_91019_3902770	NC_021166.1	Ca_kabuli_chr07	3902770	CC	TT	1946879963
SNP_P4_91021_3915201	NC_021166.1	Ca_kabuli_chr07	3915201	GG	TT	1946879965
SNP_P4_91024_3976545	NC_021166.1	Ca_kabuli_chr07	3976545	GG	AA	1946879967
SNP_P4_91025_3977186	NC_021166.1	Ca_kabuli_chr07	3977186	CC	TT	1946879969
SNP_P4_91026_3992139	NC_021166.1	Ca_kabuli_chr07	3992139	AA	GG	1946879971
SNP_P4_91027_4012081	NC_021166.1	Ca_kabuli_chr07	4012081	GG	CC	1946879973
SNP_P4_91028_4026427	NC_021166.1	Ca_kabuli_chr07	4026427	CC	TT	1946879975
SNP_P4_91029_4032224	NC_021166.1	Ca_kabuli_chr07	4032224	AA	GG	1946879977
SNP_P4_91030_4032251	NC_021166.1	Ca_kabuli_chr07	4032251	AA	GG	1946879979
SNP_P4_91031_4091509	NC_021166.1	Ca_kabuli_chr07	4091509	CC	TT	1946879981
SNP_P4_91032_4091585	NC_021166.1	Ca_kabuli_chr07	4091585	TT	CC	1946879983
SNP_P4_91033_4091622	NC_021166.1	Ca_kabuli_chr07	4091622	AA	CC	1946879985
SNP_P4_91034_4091624	NC_021166.1	Ca_kabuli_chr07	4091624	AA	TT	1946879987
SNP_P4_91035_4091631	NC_021166.1	Ca_kabuli_chr07	4091631	AA	GG	1946879989
SNP_P4_91036_4091647	NC_021166.1	Ca_kabuli_chr07	4091647	AA	GG	1946879991
SNP_P4_91037_4091673	NC_021166.1	Ca_kabuli_chr07	4091673	TT	CC	1946879994
SNP_P4_91038_4092122	NC_021166.1	Ca_kabuli_chr07	4092122	GG	CC	1946879996
SNP_P4_91039_4109085	NC_021166.1	Ca_kabuli_chr07	4109085	AA	CC	1946879998
SNP_P4_91040_4109087	NC_021166.1	Ca_kabuli_chr07	4109087	AA	CC	1946880000
SNP_P4_91043_4127083	NC_021166.1	Ca_kabuli_chr07	4127083	AA	TT	1946880002
SNP_P4_91044_4161166	NC_021166.1	Ca_kabuli_chr07	4161166	AA	TT	1946880004
SNP_P4_91045_4192522	NC_021166.1	Ca_kabuli_chr07	4192522	AA	GG	1946880006
SNP_P4_91046_4211825	NC_021166.1	Ca_kabuli_chr07	4211825	TT	CC	1946880008
SNP_P4_91047_4223579	NC_021166.1	Ca_kabuli_chr07	4223579	CC	TT	1946880010
SNP_P4_91049_4224881	NC_021166.1	Ca_kabuli_chr07	4224881	CC	TT	1946880012
SNP_P4_91050_4225016	NC_021166.1	Ca_kabuli_chr07	4225016	TT	CC	1946880014
SNP_P4_91051_4225306	NC_021166.1	Ca_kabuli_chr07	4225306	CC	TT	1946880016

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_91057_4348939	NC_021166.1	Ca_kabuli_chr07	4348939	GG	AA	1946880020
SNP_P4_91060_4396763	NC_021166.1	Ca_kabuli_chr07	4396763	AA	GG	1946880023
SNP_P4_91061_4405186	NC_021166.1	Ca_kabuli_chr07	4405186	TT	GG	1946880025
SNP_P4_91062_4405193	NC_021166.1	Ca_kabuli_chr07	4405193	AA	TT	1946880027
SNP_P4_91063_4407746	NC_021166.1	Ca_kabuli_chr07	4407746	CC	AA	1946880029
SNP_P4_91064_4411515	NC_021166.1	Ca_kabuli_chr07	4411515	AA	CC	1946880031
SNP_P4_91065_4412829	NC_021166.1	Ca_kabuli_chr07	4412829	GG	AA	1946880033
SNP_P4_91066_4412835	NC_021166.1	Ca_kabuli_chr07	4412835	TT	CC	1946880035
SNP_P4_91068_4415889	NC_021166.1	Ca_kabuli_chr07	4415889	AA	GG	1946880037
SNP_P4_91069_4417766	NC_021166.1	Ca_kabuli_chr07	4417766	AA	CC	1946880039
SNP_P4_91070_4417786	NC_021166.1	Ca_kabuli_chr07	4417786	AA	GG	1946880041
SNP_P4_91071_4417809	NC_021166.1	Ca_kabuli_chr07	4417809	AA	GG	1946880043
SNP_P4_91072_4417932	NC_021166.1	Ca_kabuli_chr07	4417932	GG	CC	1946880045
SNP_P4_91073_4417940	NC_021166.1	Ca_kabuli_chr07	4417940	CC	TT	1946880047
SNP_P4_91074_4418072	NC_021166.1	Ca_kabuli_chr07	4418072	AA	GG	1946880049
SNP_P4_91075_4418083	NC_021166.1	Ca_kabuli_chr07	4418083	TT	AA	1946880051
SNP_P4_91076_4418090	NC_021166.1	Ca_kabuli_chr07	4418090	AA	GG	1946880053
SNP_P4_91077_4418103	NC_021166.1	Ca_kabuli_chr07	4418103	AA	CC	1946880055
SNP_P4_91079_4422920	NC_021166.1	Ca_kabuli_chr07	4422920	GG	TT	1946880057
SNP_P4_91083_4450153	NC_021166.1	Ca_kabuli_chr07	4450153	GG	TT	1946880059
SNP_P4_91084_4450154	NC_021166.1	Ca_kabuli_chr07	4450154	AA	TT	1946880061
SNP_P4_91086_4450309	NC_021166.1	Ca_kabuli_chr07	4450309	GG	TT	1946880063
SNP_P4_91087_4450467	NC_021166.1	Ca_kabuli_chr07	4450467	AA	GG	1946880065
SNP_P4_91088_4452999	NC_021166.1	Ca_kabuli_chr07	4452999	GG	TT	1946880067
SNP_P4_91089_4453052	NC_021166.1	Ca_kabuli_chr07	4453052	AA	GG	1946880069
SNP_P4_91091_4501678	NC_021166.1	Ca_kabuli_chr07	4501678	CC	TT	1946880071
SNP_P4_91093_4534453	NC_021166.1	Ca_kabuli_chr07	4534453	CC	GG	1946880073
SNP_P4_91094_4534501	NC_021166.1	Ca_kabuli_chr07	4534501	CC	TT	1946880075
SNP_P4_91095_4534521	NC_021166.1	Ca_kabuli_chr07	4534521	TT	GG	1946880077
SNP_P4_91096_4534562	NC_021166.1	Ca_kabuli_chr07	4534562	TT	AA	1946880080
SNP_P4_91097_4537954	NC_021166.1	Ca_kabuli_chr07	4537954	GG	AA	1946880082
SNP_P4_91098_4559876	NC_021166.1	Ca_kabuli_chr07	4559876	TT	CC	1946880084
SNP_P4_91100_4564019	NC_021166.1	Ca_kabuli_chr07	4564019	CC	TT	1946880086
SNP_P4_91101_4567373	NC_021166.1	Ca_kabuli_chr07	4567373	CC	TT	1946880088
SNP_P4_91103_4606218	NC_021166.1	Ca_kabuli_chr07	4606218	CC	AA	1946880090
SNP_P4_91106_4646043	NC_021166.1	Ca_kabuli_chr07	4646043	TT	CC	1946880092
SNP_P4_91109_4664419	NC_021166.1	Ca_kabuli_chr07	4664419	TT	AA	1946880094
SNP_P4_91112_4694320	NC_021166.1	Ca_kabuli_chr07	4694320	CC	AA	1946880096
SNP_P4_91113_4710476	NC_021166.1	Ca_kabuli_chr07	4710476	AA	GG	1946880098
SNP_P4_91114_4719064	NC_021166.1	Ca_kabuli_chr07	4719064	TT	CC	1946880100
SNP_P4_91115_4755216	NC_021166.1	Ca_kabuli_chr07	4755216	CC	AA	1946880102

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_91118_4790871	NC_021166.1	Ca_kabuli_chr07	4790871	AA	GG	1946880106
SNP_P4_91119_4795115	NC_021166.1	Ca_kabuli_chr07	4795115	AA	TT	1946880108
SNP_P4_91120_4799389	NC_021166.1	Ca_kabuli_chr07	4799389	CC	TT	1946880110
SNP_P4_91122_4883504	NC_021166.1	Ca_kabuli_chr07	4883504	GG	AA	1946880112
SNP_P4_91124_4908502	NC_021166.1	Ca_kabuli_chr07	4908502	AA	GG	1946880200
SNP_P4_91125_4908505	NC_021166.1	Ca_kabuli_chr07	4908505	AA	CC	1946880203
SNP_P4_91126_4914130	NC_021166.1	Ca_kabuli_chr07	4914130	TT	GG	1946880205
SNP_P4_91127_4915246	NC_021166.1	Ca_kabuli_chr07	4915246	TT	GG	1946880207
SNP_P4_91128_4924418	NC_021166.1	Ca_kabuli_chr07	4924418	GG	AA	1946880209
SNP_P4_91129_4925338	NC_021166.1	Ca_kabuli_chr07	4925338	TT	CC	1946880211
SNP_P4_91130_4927138	NC_021166.1	Ca_kabuli_chr07	4927138	GG	AA	1946880213
SNP_P4_91131_4927408	NC_021166.1	Ca_kabuli_chr07	4927408	AA	GG	1946880215
SNP_P4_91132_4928825	NC_021166.1	Ca_kabuli_chr07	4928825	AA	GG	1946880217
SNP_P4_91133_4928854	NC_021166.1	Ca_kabuli_chr07	4928854	CC	AA	1946880220
SNP_P4_91134_4953972	NC_021166.1	Ca_kabuli_chr07	4953972	CC	TT	1946880221
SNP_P4_91135_4973142	NC_021166.1	Ca_kabuli_chr07	4973142	TT	CC	1946880223
SNP_P4_91136_4973183	NC_021166.1	Ca_kabuli_chr07	4973183	CC	TT	1946880225
SNP_P4_91137_4973768	NC_021166.1	Ca_kabuli_chr07	4973768	TT	AA	1946880227
SNP_P4_91138_4973779	NC_021166.1	Ca_kabuli_chr07	4973779	AA	CC	1946880229
SNP_P4_91140_4974115	NC_021166.1	Ca_kabuli_chr07	4974115	GG	AA	1946880231
SNP_P4_91141_4977601	NC_021166.1	Ca_kabuli_chr07	4977601	GG	AA	1946880233
SNP_P4_91142_4986509	NC_021166.1	Ca_kabuli_chr07	4986509	AA	GG	1946880235
SNP_P4_91143_4989877	NC_021166.1	Ca_kabuli_chr07	4989877	CC	TT	1946880237
SNP_P4_91144_4994680	NC_021166.1	Ca_kabuli_chr07	4994680	GG	AA	1946880239
SNP_P4_91145_5001255	NC_021166.1	Ca_kabuli_chr07	5001255	TT	CC	1946880241
SNP_P4_91146_5002226	NC_021166.1	Ca_kabuli_chr07	5002226	AA	CC	1946880243
SNP_P4_91147_5002253	NC_021166.1	Ca_kabuli_chr07	5002253	TT	CC	1946880245
SNP_P4_91148_5009196	NC_021166.1	Ca_kabuli_chr07	5009196	GG	TT	1946880247
SNP_P4_91149_5009451	NC_021166.1	Ca_kabuli_chr07	5009451	CC	TT	1946880249
SNP_P4_91151_5010230	NC_021166.1	Ca_kabuli_chr07	5010230	AA	GG	1946880251
SNP_P4_91152_5010265	NC_021166.1	Ca_kabuli_chr07	5010265	AA	GG	1946880253
SNP_P4_91153_5010658	NC_021166.1	Ca_kabuli_chr07	5010658	GG	TT	1946880255
SNP_P4_91156_5016197	NC_021166.1	Ca_kabuli_chr07	5016197	GG	AA	1946880257
SNP_P4_91157_5018159	NC_021166.1	Ca_kabuli_chr07	5018159	AA	CC	1946880259
SNP_P4_91158_5024388	NC_021166.1	Ca_kabuli_chr07	5024388	TT	CC	1946880261
SNP_P4_91159_5025967	NC_021166.1	Ca_kabuli_chr07	5025967	AA	CC	1946880263
SNP_P4_91160_5026069	NC_021166.1	Ca_kabuli_chr07	5026069	GG	TT	1946880265
SNP_P4_91162_5026371	NC_021166.1	Ca_kabuli_chr07	5026371	GG	AA	1946880267
SNP_P4_91163_5026372	NC_021166.1	Ca_kabuli_chr07	5026372	GG	TT	1946880269
SNP_P4_91164_5028206	NC_021166.1	Ca_kabuli_chr07	5028206	CC	TT	1946880271
SNP_P4_91165_5028892	NC_021166.1	Ca_kabuli_chr07	5028892	TT	AA	1946880273

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_91170_5039520	NC_021166.1	Ca_kabuli_chr07	5039520	AA	CC	1946880276
SNP_P4_91171_5040534	NC_021166.1	Ca_kabuli_chr07	5040534	CC	TT	1946880278
SNP_P4_91172_5042316	NC_021166.1	Ca_kabuli_chr07	5042316	AA	GG	1946880280
SNP_P4_91173_5042850	NC_021166.1	Ca_kabuli_chr07	5042850	CC	TT	1946880282
SNP_P4_91175_5047064	NC_021166.1	Ca_kabuli_chr07	5047064	TT	CC	1946880285
SNP_P4_91176_5051530	NC_021166.1	Ca_kabuli_chr07	5051530	TT	CC	1946880286
SNP_P4_91177_5053564	NC_021166.1	Ca_kabuli_chr07	5053564	TT	CC	1946880288
SNP_P4_91178_5053658	NC_021166.1	Ca_kabuli_chr07	5053658	CC	TT	1946880290
SNP_P4_91179_5053695	NC_021166.1	Ca_kabuli_chr07	5053695	TT	GG	1946880292
SNP_P4_91180_5053815	NC_021166.1	Ca_kabuli_chr07	5053815	GG	TT	1946880294
SNP_P4_91181_5073989	NC_021166.1	Ca_kabuli_chr07	5073989	AA	GG	1946880296
SNP_P4_91182_5076200	NC_021166.1	Ca_kabuli_chr07	5076200	TT	CC	1946880299
SNP_P4_91184_5076962	NC_021166.1	Ca_kabuli_chr07	5076962	AA	GG	1946880301
SNP_P4_91185_5078047	NC_021166.1	Ca_kabuli_chr07	5078047	GG	AA	1946880303
SNP_P4_91187_5081665	NC_021166.1	Ca_kabuli_chr07	5081665	AA	GG	1946880305
SNP_P4_91189_5082316	NC_021166.1	Ca_kabuli_chr07	5082316	AA	GG	1946880306
SNP_P4_91190_5084300	NC_021166.1	Ca_kabuli_chr07	5084300	TT	CC	1946880308
SNP_P4_91191_5084834	NC_021166.1	Ca_kabuli_chr07	5084834	TT	AA	1946880310
SNP_P4_91192_5089091	NC_021166.1	Ca_kabuli_chr07	5089091	AA	TT	1946880312
SNP_P4_91193_5089820	NC_021166.1	Ca_kabuli_chr07	5089820	TT	CC	1946880314
SNP_P4_91194_5091817	NC_021166.1	Ca_kabuli_chr07	5091817	AA	GG	1946880316
SNP_P4_91195_5093248	NC_021166.1	Ca_kabuli_chr07	5093248	AA	GG	1946880318
SNP_P4_91196_5095856	NC_021166.1	Ca_kabuli_chr07	5095856	GG	AA	1946880320
SNP_P4_91197_5106353	NC_021166.1	Ca_kabuli_chr07	5106353	CC	GG	1946880322
SNP_P4_91198_5118909	NC_021166.1	Ca_kabuli_chr07	5118909	AA	CC	1946880324
SNP_P4_91199_5121743	NC_021166.1	Ca_kabuli_chr07	5121743	GG	CC	1946880326
SNP_P4_91200_5127699	NC_021166.1	Ca_kabuli_chr07	5127699	GG	AA	1946880328
SNP_P4_91201_5132923	NC_021166.1	Ca_kabuli_chr07	5132923	CC	AA	1946880329
SNP_P4_91203_5137232	NC_021166.1	Ca_kabuli_chr07	5137232	AA	CC	1946880331
SNP_P4_91204_5140331	NC_021166.1	Ca_kabuli_chr07	5140331	CC	TT	1946880333
SNP_P4_91205_5140579	NC_021166.1	Ca_kabuli_chr07	5140579	TT	CC	1946880335
SNP_P4_91206_5143462	NC_021166.1	Ca_kabuli_chr07	5143462	AA	TT	1946880337
SNP_P4_91207_5143656	NC_021166.1	Ca_kabuli_chr07	5143656	CC	TT	1946880339
SNP_P4_91208_5144787	NC_021166.1	Ca_kabuli_chr07	5144787	AA	GG	1946880341
SNP_P4_91209_5144803	NC_021166.1	Ca_kabuli_chr07	5144803	AA	GG	1946880343
SNP_P4_91210_5150004	NC_021166.1	Ca_kabuli_chr07	5150004	GG	TT	1946880345
SNP_P4_91211_5152976	NC_021166.1	Ca_kabuli_chr07	5152976	GG	AA	1946880347
SNP_P4_91213_5157784	NC_021166.1	Ca_kabuli_chr07	5157784	CC	AA	1946880348
SNP_P4_91214_5159477	NC_021166.1	Ca_kabuli_chr07	5159477	TT	GG	1946880350
SNP_P4_91215_5169193	NC_021166.1	Ca_kabuli_chr07	5169193	CC	TT	1946880352
SNP_P4_91216_5169223	NC_021166.1	Ca_kabuli_chr07	5169223	TT	CC	1946880354

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_91217_5174279	NC_021166.1	Ca_kabuli_chr07	5174279	AA	TT	1946880356
SNP_P4_91218_5177956	NC_021166.1	Ca_kabuli_chr07	5177956	AA	CC	1946880358
SNP_P4_91219_5178127	NC_021166.1	Ca_kabuli_chr07	5178127	GG	AA	1946880360
SNP_P4_91222_5181615	NC_021166.1	Ca_kabuli_chr07	5181615	CC	TT	1946880362
SNP_P4_91223_5183653	NC_021166.1	Ca_kabuli_chr07	5183653	TT	AA	1946880364
SNP_P4_91224_5185109	NC_021166.1	Ca_kabuli_chr07	5185109	GG	TT	1946880366
SNP_P4_91225_5185921	NC_021166.1	Ca_kabuli_chr07	5185921	AA	TT	1946880368
SNP_P4_91226_5186106	NC_021166.1	Ca_kabuli_chr07	5186106	GG	AA	1946880369
SNP_P4_91227_5186218	NC_021166.1	Ca_kabuli_chr07	5186218	GG	CC	1946880371
SNP_P4_91229_5187582	NC_021166.1	Ca_kabuli_chr07	5187582	CC	AA	1946880373
SNP_P4_91230_5190061	NC_021166.1	Ca_kabuli_chr07	5190061	CC	TT	1946880375
SNP_P4_91232_5192661	NC_021166.1	Ca_kabuli_chr07	5192661	CC	TT	1946880377
SNP_P4_91233_5192935	NC_021166.1	Ca_kabuli_chr07	5192935	TT	AA	1946880379
SNP_P4_91234_5193570	NC_021166.1	Ca_kabuli_chr07	5193570	AA	GG	1946880381
SNP_P4_91235_5193596	NC_021166.1	Ca_kabuli_chr07	5193596	TT	AA	1946880383
SNP_P4_91236_5193628	NC_021166.1	Ca_kabuli_chr07	5193628	TT	AA	1946880385
SNP_P4_91237_5193633	NC_021166.1	Ca_kabuli_chr07	5193633	GG	TT	1946880387
SNP_P4_91238_5193634	NC_021166.1	Ca_kabuli_chr07	5193634	GG	TT	1946880389
SNP_P4_91239_5193713	NC_021166.1	Ca_kabuli_chr07	5193713	CC	TT	1946880391
SNP_P4_91240_5193729	NC_021166.1	Ca_kabuli_chr07	5193729	GG	AA	1946880393
SNP_P4_91241_5193850	NC_021166.1	Ca_kabuli_chr07	5193850	GG	AA	1946880395
SNP_P4_91242_5193856	NC_021166.1	Ca_kabuli_chr07	5193856	TT	CC	1946880397
SNP_P4_91243_5193897	NC_021166.1	Ca_kabuli_chr07	5193897	GG	AA	1946880398
SNP_P4_91245_5225876	NC_021166.1	Ca_kabuli_chr07	5225876	CC	TT	1946880400
SNP_P4_91246_5225878	NC_021166.1	Ca_kabuli_chr07	5225878	AA	TT	1946880402
SNP_P4_91248_5265319	NC_021166.1	Ca_kabuli_chr07	5265319	GG	AA	1946880404
SNP_P4_91249_5265506	NC_021166.1	Ca_kabuli_chr07	5265506	TT	AA	1946880406
SNP_P4_91250_5265507	NC_021166.1	Ca_kabuli_chr07	5265507	TT	CC	1946880408
SNP_P4_91251_5266392	NC_021166.1	Ca_kabuli_chr07	5266392	TT	AA	1946880410
SNP_P4_91252_5270688	NC_021166.1	Ca_kabuli_chr07	5270688	TT	AA	1946880412
SNP_P4_91253_5273381	NC_021166.1	Ca_kabuli_chr07	5273381	CC	TT	1946880414
SNP_P4_91254_5275888	NC_021166.1	Ca_kabuli_chr07	5275888	CC	TT	1946880416
SNP_P4_91255_5284314	NC_021166.1	Ca_kabuli_chr07	5284314	AA	GG	1946880418
SNP_P4_91256_5297311	NC_021166.1	Ca_kabuli_chr07	5297311	TT	CC	1946880419
SNP_P4_91257_5297775	NC_021166.1	Ca_kabuli_chr07	5297775	GG	TT	1946880421
SNP_P4_91258_5298736	NC_021166.1	Ca_kabuli_chr07	5298736	TT	GG	1946880423
SNP_P4_91261_5358710	NC_021166.1	Ca_kabuli_chr07	5358710	TT	CC	1946880425
SNP_P4_91262_5367477	NC_021166.1	Ca_kabuli_chr07	5367477	TT	AA	1946880427
SNP_P4_91263_5373164	NC_021166.1	Ca_kabuli_chr07	5373164	GG	TT	1946880429
SNP_P4_91264_5375166	NC_021166.1	Ca_kabuli_chr07	5375166	CC	TT	1946880431
SNP_P4_91265_5375276	NC_021166.1	Ca_kabuli_chr07	5375276	GG	TT	1946880433
SNP_P4_91266_5376266	NC_021166.1	Ca_kabuli_chr07	5376266	TT	GG	1946880435

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_91270_5380139	NC_021166.1	Ca_kabuli_chr07	5380139	TT	AA	1946880438
SNP_P4_91271_5380140	NC_021166.1	Ca_kabuli_chr07	5380140	TT	AA	1946880440
SNP_P4_91272_5380142	NC_021166.1	Ca_kabuli_chr07	5380142	AA	TT	1946880442
SNP_P4_91273_5380165	NC_021166.1	Ca_kabuli_chr07	5380165	TT	GG	1946880444
SNP_P4_91275_5380260	NC_021166.1	Ca_kabuli_chr07	5380260	TT	CC	1946880446
SNP_P4_91276_5386501	NC_021166.1	Ca_kabuli_chr07	5386501	CC	GG	1946880448
SNP_P4_91277_5386620	NC_021166.1	Ca_kabuli_chr07	5386620	GG	AA	1946880450
SNP_P4_91278_5387691	NC_021166.1	Ca_kabuli_chr07	5387691	GG	AA	1946880452
SNP_P4_91280_5388242	NC_021166.1	Ca_kabuli_chr07	5388242	CC	GG	1946880454
SNP_P4_91281_5388278	NC_021166.1	Ca_kabuli_chr07	5388278	CC	TT	1946880456
SNP_P4_91283_5389039	NC_021166.1	Ca_kabuli_chr07	5389039	TT	AA	1946880458
SNP_P4_91284_5389048	NC_021166.1	Ca_kabuli_chr07	5389048	CC	TT	1946880460
SNP_P4_91285_5389190	NC_021166.1	Ca_kabuli_chr07	5389190	AA	CC	1946880462
SNP_P4_91286_5390956	NC_021166.1	Ca_kabuli_chr07	5390956	TT	AA	1946880464
SNP_P4_91287_5391915	NC_021166.1	Ca_kabuli_chr07	5391915	GG	TT	1946880466
SNP_P4_91288_5391921	NC_021166.1	Ca_kabuli_chr07	5391921	CC	AA	1946880468
SNP_P4_91290_5397261	NC_021166.1	Ca_kabuli_chr07	5397261	TT	CC	1946880470
SNP_P4_91291_5397272	NC_021166.1	Ca_kabuli_chr07	5397272	CC	AA	1946880472
SNP_P4_91292_5397274	NC_021166.1	Ca_kabuli_chr07	5397274	GG	TT	1946880474
SNP_P4_91293_5397487	NC_021166.1	Ca_kabuli_chr07	5397487	TT	GG	1946880476
SNP_P4_91294_5398110	NC_021166.1	Ca_kabuli_chr07	5398110	AA	GG	1946880478
SNP_P4_91297_5400500	NC_021166.1	Ca_kabuli_chr07	5400500	CC	GG	1946880480
SNP_P4_91299_5402179	NC_021166.1	Ca_kabuli_chr07	5402179	CC	AA	1946880482
SNP_P4_91300_5402186	NC_021166.1	Ca_kabuli_chr07	5402186	TT	AA	1946880484
SNP_P4_91301_5402247	NC_021166.1	Ca_kabuli_chr07	5402247	TT	AA	1946880486
SNP_P4_91302_5402291	NC_021166.1	Ca_kabuli_chr07	5402291	TT	CC	1946880488
SNP_P4_91303_5402423	NC_021166.1	Ca_kabuli_chr07	5402423	TT	GG	1946880490
SNP_P4_91304_5402444	NC_021166.1	Ca_kabuli_chr07	5402444	TT	AA	1946880492
SNP_P4_91305_5402445	NC_021166.1	Ca_kabuli_chr07	5402445	TT	AA	1946880494
SNP_P4_91306_5402472	NC_021166.1	Ca_kabuli_chr07	5402472	AA	GG	1946880496
SNP_P4_91307_5403825	NC_021166.1	Ca_kabuli_chr07	5403825	TT	AA	1946880498
SNP_P4_91308_5404004	NC_021166.1	Ca_kabuli_chr07	5404004	AA	CC	1946880500
SNP_P4_91309_5405002	NC_021166.1	Ca_kabuli_chr07	5405002	GG	CC	1946880502
SNP_P4_91310_5405293	NC_021166.1	Ca_kabuli_chr07	5405293	TT	AA	1946880504
SNP_P4_91311_5405356	NC_021166.1	Ca_kabuli_chr07	5405356	AA	CC	1946880506
SNP_P4_91313_5406524	NC_021166.1	Ca_kabuli_chr07	5406524	TT	GG	1946880508
SNP_P4_91314_5407042	NC_021166.1	Ca_kabuli_chr07	5407042	GG	CC	1946880510
SNP_P4_91315_5407050	NC_021166.1	Ca_kabuli_chr07	5407050	AA	CC	1946880512
SNP_P4_91317_5407336	NC_021166.1	Ca_kabuli_chr07	5407336	TT	AA	1946880514
SNP_P4_91318_5407381	NC_021166.1	Ca_kabuli_chr07	5407381	TT	CC	1946880516
SNP_P4_91319_5407411	NC_021166.1	Ca_kabuli_chr07	5407411	GG	AA	1946880518

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_91322_5407923	NC_021166.1	Ca_kabuli_chr07	5407923	TT	GG	1946880521
SNP_P4_91323_5407945	NC_021166.1	Ca_kabuli_chr07	5407945	TT	GG	1946880523
SNP_P4_91324_5408169	NC_021166.1	Ca_kabuli_chr07	5408169	GG	AA	1946880525
SNP_P4_91325_5408951	NC_021166.1	Ca_kabuli_chr07	5408951	CC	TT	1946880527
SNP_P4_91326_5409006	NC_021166.1	Ca_kabuli_chr07	5409006	AA	GG	1946880529
SNP_P4_91327_5409010	NC_021166.1	Ca_kabuli_chr07	5409010	GG	AA	1946880531
SNP_P4_91328_5409013	NC_021166.1	Ca_kabuli_chr07	5409013	AA	TT	1946880533
SNP_P4_91329_5409016	NC_021166.1	Ca_kabuli_chr07	5409016	AA	TT	1946880535
SNP_P4_91330_5409017	NC_021166.1	Ca_kabuli_chr07	5409017	AA	TT	1946880537
SNP_P4_91331_5409018	NC_021166.1	Ca_kabuli_chr07	5409018	AA	TT	1946880539
SNP_P4_91332_5409057	NC_021166.1	Ca_kabuli_chr07	5409057	GG	AA	1946880541
SNP_P4_91333_5409064	NC_021166.1	Ca_kabuli_chr07	5409064	AA	GG	1946880543
SNP_P4_91334_5409065	NC_021166.1	Ca_kabuli_chr07	5409065	AA	GG	1946880545
SNP_P4_91335_5409087	NC_021166.1	Ca_kabuli_chr07	5409087	CC	TT	1946880547
SNP_P4_91336_5409841	NC_021166.1	Ca_kabuli_chr07	5409841	GG	CC	1946880549
SNP_P4_91337_5409908	NC_021166.1	Ca_kabuli_chr07	5409908	CC	GG	1946880551
SNP_P4_91338_5409917	NC_021166.1	Ca_kabuli_chr07	5409917	TT	CC	1946880553
SNP_P4_91339_5410166	NC_021166.1	Ca_kabuli_chr07	5410166	TT	CC	1946880554
SNP_P4_91340_5411259	NC_021166.1	Ca_kabuli_chr07	5411259	GG	TT	1946880556
SNP_P4_91341_5411467	NC_021166.1	Ca_kabuli_chr07	5411467	GG	CC	1946880558
SNP_P4_91342_5411482	NC_021166.1	Ca_kabuli_chr07	5411482	CC	TT	1946880560
SNP_P4_91343_5411511	NC_021166.1	Ca_kabuli_chr07	5411511	GG	AA	1946880562
SNP_P4_91344_5411522	NC_021166.1	Ca_kabuli_chr07	5411522	TT	CC	1946880564
SNP_P4_91345_5411539	NC_021166.1	Ca_kabuli_chr07	5411539	GG	AA	1946880566
SNP_P4_91346_5411582	NC_021166.1	Ca_kabuli_chr07	5411582	AA	GG	1946880568
SNP_P4_91347_5413820	NC_021166.1	Ca_kabuli_chr07	5413820	AA	TT	1946880570
SNP_P4_91348_5413833	NC_021166.1	Ca_kabuli_chr07	5413833	AA	TT	1946880572
SNP_P4_91350_5414103	NC_021166.1	Ca_kabuli_chr07	5414103	AA	GG	1946880574
SNP_P4_91351_5414627	NC_021166.1	Ca_kabuli_chr07	5414627	TT	CC	1946880576
SNP_P4_91352_5414918	NC_021166.1	Ca_kabuli_chr07	5414918	GG	AA	1946880578
SNP_P4_91353_5415011	NC_021166.1	Ca_kabuli_chr07	5415011	GG	AA	1946880580
SNP_P4_91354_5415045	NC_021166.1	Ca_kabuli_chr07	5415045	AA	GG	1946880582
SNP_P4_91356_5415200	NC_021166.1	Ca_kabuli_chr07	5415200	AA	GG	1946880584
SNP_P4_91357_5415211	NC_021166.1	Ca_kabuli_chr07	5415211	AA	GG	1946880586
SNP_P4_91358_5415539	NC_021166.1	Ca_kabuli_chr07	5415539	CC	TT	1946880588
SNP_P4_91359_5415650	NC_021166.1	Ca_kabuli_chr07	5415650	AA	TT	1946880590
SNP_P4_91360_5416105	NC_021166.1	Ca_kabuli_chr07	5416105	GG	TT	1946880592
SNP_P4_91362_5417085	NC_021166.1	Ca_kabuli_chr07	5417085	TT	CC	1946880594
SNP_P4_91364_5420968	NC_021166.1	Ca_kabuli_chr07	5420968	GG	AA	1946880596
SNP_P4_91367_5425407	NC_021166.1	Ca_kabuli_chr07	5425407	GG	TT	1946880598
SNP_P4_91368_5425438	NC_021166.1	Ca_kabuli_chr07	5425438	GG	AA	1946880600

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_91371_5427528	NC_021166.1	Ca_kabuli_chr07	5427528	AA	CC	1946880604
SNP_P4_91372_5427537	NC_021166.1	Ca_kabuli_chr07	5427537	CC	TT	1946880606
SNP_P4_91373_5428123	NC_021166.1	Ca_kabuli_chr07	5428123	GG	TT	1946880608
SNP_P4_91374_5429350	NC_021166.1	Ca_kabuli_chr07	5429350	AA	GG	1946880610
SNP_P4_91376_5429833	NC_021166.1	Ca_kabuli_chr07	5429833	AA	GG	1946880612
SNP_P4_91377_5434164	NC_021166.1	Ca_kabuli_chr07	5434164	AA	TT	1946880614
SNP_P4_91379_5434494	NC_021166.1	Ca_kabuli_chr07	5434494	CC	GG	1946880616
SNP_P4_91380_5434497	NC_021166.1	Ca_kabuli_chr07	5434497	TT	CC	1946880618
SNP_P4_91381_5434598	NC_021166.1	Ca_kabuli_chr07	5434598	AA	CC	1946880620
SNP_P4_91383_5434838	NC_021166.1	Ca_kabuli_chr07	5434838	AA	GG	1946880622
SNP_P4_91385_5436418	NC_021166.1	Ca_kabuli_chr07	5436418	CC	TT	1946880624
SNP_P4_91386_5438232	NC_021166.1	Ca_kabuli_chr07	5438232	AA	GG	1946880626
SNP_P4_91387_5438345	NC_021166.1	Ca_kabuli_chr07	5438345	TT	CC	1946880627
SNP_P4_91388_5438371	NC_021166.1	Ca_kabuli_chr07	5438371	CC	AA	1946880629
SNP_P4_91389_5438396	NC_021166.1	Ca_kabuli_chr07	5438396	GG	AA	1946880631
SNP_P4_91391_5440461	NC_021166.1	Ca_kabuli_chr07	5440461	TT	AA	1946880633
SNP_P4_91392_5442234	NC_021166.1	Ca_kabuli_chr07	5442234	GG	AA	1946880635
SNP_P4_91393_5442253	NC_021166.1	Ca_kabuli_chr07	5442253	CC	GG	1946880637
SNP_P4_91394_5442267	NC_021166.1	Ca_kabuli_chr07	5442267	AA	TT	1946880639
SNP_P4_91395_5442268	NC_021166.1	Ca_kabuli_chr07	5442268	TT	CC	1946880642
SNP_P4_91396_5442281	NC_021166.1	Ca_kabuli_chr07	5442281	CC	AA	1946880644
SNP_P4_91397_5442289	NC_021166.1	Ca_kabuli_chr07	5442289	TT	CC	1946880646
SNP_P4_91398_5442344	NC_021166.1	Ca_kabuli_chr07	5442344	CC	AA	1946880648
SNP_P4_91399_5442627	NC_021166.1	Ca_kabuli_chr07	5442627	AA	CC	1946880650
SNP_P4_91400_5443283	NC_021166.1	Ca_kabuli_chr07	5443283	TT	GG	1946880652
SNP_P4_91401_5443286	NC_021166.1	Ca_kabuli_chr07	5443286	AA	TT	1946880654
SNP_P4_91402_5443295	NC_021166.1	Ca_kabuli_chr07	5443295	AA	GG	1946880656
SNP_P4_91403_5443300	NC_021166.1	Ca_kabuli_chr07	5443300	AA	GG	1946880658
SNP_P4_91404_5443657	NC_021166.1	Ca_kabuli_chr07	5443657	AA	GG	1946880660
SNP_P4_91406_5443854	NC_021166.1	Ca_kabuli_chr07	5443854	CC	AA	1946880662
SNP_P4_91407_5444652	NC_021166.1	Ca_kabuli_chr07	5444652	GG	CC	1946880664
SNP_P4_91408_5445027	NC_021166.1	Ca_kabuli_chr07	5445027	GG	AA	1946880666
SNP_P4_91409_5445065	NC_021166.1	Ca_kabuli_chr07	5445065	CC	TT	1946880667
SNP_P4_91410_5445150	NC_021166.1	Ca_kabuli_chr07	5445150	TT	CC	1946880669
SNP_P4_91411_5445151	NC_021166.1	Ca_kabuli_chr07	5445151	AA	GG	1946880671
SNP_P4_91412_5445204	NC_021166.1	Ca_kabuli_chr07	5445204	CC	TT	1946880673
SNP_P4_91413_5445208	NC_021166.1	Ca_kabuli_chr07	5445208	TT	CC	1946880675
SNP_P4_91415_5445465	NC_021166.1	Ca_kabuli_chr07	5445465	TT	CC	1946880677
SNP_P4_91416_5445471	NC_021166.1	Ca_kabuli_chr07	5445471	AA	GG	1946880679
SNP_P4_91417_5445482	NC_021166.1	Ca_kabuli_chr07	5445482	AA	GG	1946880681
SNP_P4_91418_5445499	NC_021166.1	Ca_kabuli_chr07	5445499	AA	GG	1946880683

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_91422_5452369	NC_021166.1	Ca_kabuli_chr07	5452369	TT	CC	1946880687
SNP_P4_91423_5455421	NC_021166.1	Ca_kabuli_chr07	5455421	TT	AA	1946880689
SNP_P4_91424_5456470	NC_021166.1	Ca_kabuli_chr07	5456470	TT	CC	1946880691
SNP_P4_91425_5456478	NC_021166.1	Ca_kabuli_chr07	5456478	AA	CC	1946880693
SNP_P4_91426_5456480	NC_021166.1	Ca_kabuli_chr07	5456480	AA	GG	1946880695
SNP_P4_91427_5456793	NC_021166.1	Ca_kabuli_chr07	5456793	TT	AA	1946880697
SNP_P4_91430_5461360	NC_021166.1	Ca_kabuli_chr07	5461360	CC	TT	1946880699
SNP_P4_91434_5461990	NC_021166.1	Ca_kabuli_chr07	5461990	CC	TT	1946880701
SNP_P4_91435_5463069	NC_021166.1	Ca_kabuli_chr07	5463069	CC	TT	1946880703
SNP_P4_91436_5463560	NC_021166.1	Ca_kabuli_chr07	5463560	TT	AA	1946880705
SNP_P4_91437_5463568	NC_021166.1	Ca_kabuli_chr07	5463568	TT	GG	1946880707
SNP_P4_91439_5465434	NC_021166.1	Ca_kabuli_chr07	5465434	GG	CC	1946880709
SNP_P4_91440_5466665	NC_021166.1	Ca_kabuli_chr07	5466665	AA	CC	1946880711
SNP_P4_91441_5466832	NC_021166.1	Ca_kabuli_chr07	5466832	CC	AA	1946880713
SNP_P4_91442_5466923	NC_021166.1	Ca_kabuli_chr07	5466923	TT	GG	1946880715
SNP_P4_91443_5466964	NC_021166.1	Ca_kabuli_chr07	5466964	GG	AA	1946880717
SNP_P4_91444_5467645	NC_021166.1	Ca_kabuli_chr07	5467645	GG	AA	1946880719
SNP_P4_91446_5467821	NC_021166.1	Ca_kabuli_chr07	5467821	GG	CC	1946880721
SNP_P4_91449_5468464	NC_021166.1	Ca_kabuli_chr07	5468464	AA	GG	1946880723
SNP_P4_91450_5468477	NC_021166.1	Ca_kabuli_chr07	5468477	AA	GG	1946880725
SNP_P4_91451_5468726	NC_021166.1	Ca_kabuli_chr07	5468726	TT	GG	1946880727
SNP_P4_91452_5468795	NC_021166.1	Ca_kabuli_chr07	5468795	CC	AA	1946880730
SNP_P4_91453_5469663	NC_021166.1	Ca_kabuli_chr07	5469663	AA	TT	1946880732
SNP_P4_91454_5469677	NC_021166.1	Ca_kabuli_chr07	5469677	TT	CC	1946880734
SNP_P4_91455_5469949	NC_021166.1	Ca_kabuli_chr07	5469949	TT	CC	1946880736
SNP_P4_91456_5469954	NC_021166.1	Ca_kabuli_chr07	5469954	TT	AA	1946880738
SNP_P4_91458_5470060	NC_021166.1	Ca_kabuli_chr07	5470060	TT	CC	1946880740
SNP_P4_91460_5470447	NC_021166.1	Ca_kabuli_chr07	5470447	GG	AA	1946880742
SNP_P4_91461_5470980	NC_021166.1	Ca_kabuli_chr07	5470980	GG	AA	1946880744
SNP_P4_91462_5471112	NC_021166.1	Ca_kabuli_chr07	5471112	CC	AA	1946880746
SNP_P4_91463_5471193	NC_021166.1	Ca_kabuli_chr07	5471193	CC	TT	1946880748
SNP_P4_91464_5471207	NC_021166.1	Ca_kabuli_chr07	5471207	GG	CC	1946880750
SNP_P4_91465_5471210	NC_021166.1	Ca_kabuli_chr07	5471210	TT	AA	1946880752
SNP_P4_91466_5471249	NC_021166.1	Ca_kabuli_chr07	5471249	CC	TT	1946880754
SNP_P4_91467_5471281	NC_021166.1	Ca_kabuli_chr07	5471281	CC	GG	1946880756
SNP_P4_91468_5471301	NC_021166.1	Ca_kabuli_chr07	5471301	TT	GG	1946880758
SNP_P4_91469_5471605	NC_021166.1	Ca_kabuli_chr07	5471605	TT	CC	1946880760
SNP_P4_91470_5471638	NC_021166.1	Ca_kabuli_chr07	5471638	TT	GG	1946880762
SNP_P4_91471_5471658	NC_021166.1	Ca_kabuli_chr07	5471658	CC	TT	1946880764
SNP_P4_91472_5471664	NC_021166.1	Ca_kabuli_chr07	5471664	GG	AA	1946880766
SNP_P4_91473_5471669	NC_021166.1	Ca_kabuli_chr07	5471669	AA	GG	1946880768

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_91477_5473233	NC_021166.1	Ca_kabuli_chr07	5473233	TT	CC	1946880772
SNP_P4_91478_5474783	NC_021166.1	Ca_kabuli_chr07	5474783	CC	TT	1946880774
SNP_P4_91479_5478183	NC_021166.1	Ca_kabuli_chr07	5478183	TT	CC	1946880776
SNP_P4_91480_5479717	NC_021166.1	Ca_kabuli_chr07	5479717	GG	AA	1946880778
SNP_P4_91482_5480083	NC_021166.1	Ca_kabuli_chr07	5480083	GG	AA	1946880780
SNP_P4_91483_5480100	NC_021166.1	Ca_kabuli_chr07	5480100	TT	CC	1946880782
SNP_P4_91484_5481662	NC_021166.1	Ca_kabuli_chr07	5481662	GG	AA	1946880784
SNP_P4_91486_5482203	NC_021166.1	Ca_kabuli_chr07	5482203	AA	TT	1946880786
SNP_P4_91489_5482749	NC_021166.1	Ca_kabuli_chr07	5482749	TT	AA	1946880788
SNP_P4_91490_5483491	NC_021166.1	Ca_kabuli_chr07	5483491	GG	TT	1946880790
SNP_P4_91491_5483499	NC_021166.1	Ca_kabuli_chr07	5483499	CC	AA	1946880792
SNP_P4_91492_5483660	NC_021166.1	Ca_kabuli_chr07	5483660	GG	AA	1946880794
SNP_P4_91493_5483663	NC_021166.1	Ca_kabuli_chr07	5483663	CC	GG	1946880796
SNP_P4_91494_5483688	NC_021166.1	Ca_kabuli_chr07	5483688	AA	GG	1946880798
SNP_P4_91495_5483902	NC_021166.1	Ca_kabuli_chr07	5483902	GG	AA	1946880800
SNP_P4_91496_5484183	NC_021166.1	Ca_kabuli_chr07	5484183	AA	GG	1946880801
SNP_P4_91497_5484341	NC_021166.1	Ca_kabuli_chr07	5484341	TT	GG	1946880803
SNP_P4_91499_5484559	NC_021166.1	Ca_kabuli_chr07	5484559	GG	TT	1946880805
SNP_P4_91500_5484628	NC_021166.1	Ca_kabuli_chr07	5484628	CC	TT	1946880807
SNP_P4_91502_5486738	NC_021166.1	Ca_kabuli_chr07	5486738	GG	AA	1946880809
SNP_P4_91503_5486757	NC_021166.1	Ca_kabuli_chr07	5486757	AA	GG	1946880811
SNP_P4_91504_5486760	NC_021166.1	Ca_kabuli_chr07	5486760	TT	GG	1946880813
SNP_P4_91505_5486937	NC_021166.1	Ca_kabuli_chr07	5486937	CC	TT	1946880816
SNP_P4_91507_5487866	NC_021166.1	Ca_kabuli_chr07	5487866	TT	CC	1946880817
SNP_P4_91509_5488883	NC_021166.1	Ca_kabuli_chr07	5488883	TT	CC	1946880818
SNP_P4_91510_5488942	NC_021166.1	Ca_kabuli_chr07	5488942	GG	AA	1946880819
SNP_P4_91512_5500875	NC_021166.1	Ca_kabuli_chr07	5500875	CC	AA	1946880820
SNP_P4_91513_5504057	NC_021166.1	Ca_kabuli_chr07	5504057	TT	CC	1946880821
SNP_P4_91514_5506116	NC_021166.1	Ca_kabuli_chr07	5506116	CC	TT	1946880822
SNP_P4_91515_5511182	NC_021166.1	Ca_kabuli_chr07	5511182	AA	TT	1946880824
SNP_P4_91516_5511690	NC_021166.1	Ca_kabuli_chr07	5511690	AA	GG	1946880826
SNP_P4_91517_5512242	NC_021166.1	Ca_kabuli_chr07	5512242	AA	GG	1946880828
SNP_P4_91518_5512499	NC_021166.1	Ca_kabuli_chr07	5512499	TT	CC	1946880831
SNP_P4_91520_5513912	NC_021166.1	Ca_kabuli_chr07	5513912	TT	CC	1946880833
SNP_P4_91521_5513976	NC_021166.1	Ca_kabuli_chr07	5513976	AA	GG	1946880835
SNP_P4_91522_5514148	NC_021166.1	Ca_kabuli_chr07	5514148	AA	GG	1946880837
SNP_P4_91523_5514149	NC_021166.1	Ca_kabuli_chr07	5514149	GG	TT	1946880839
SNP_P4_91524_5514185	NC_021166.1	Ca_kabuli_chr07	5514185	TT	GG	1946880841
SNP_P4_91525_5514243	NC_021166.1	Ca_kabuli_chr07	5514243	CC	TT	1946880843
SNP_P4_91526_5514256	NC_021166.1	Ca_kabuli_chr07	5514256	AA	GG	1946880845
SNP_P4_91527_5514418	NC_021166.1	Ca_kabuli_chr07	5514418	TT	CC	1946880847

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_91529_5516833	NC_021166.1	Ca_kabuli_chr07	5516833	TT	AA	1946880851
SNP_P4_91530_5516928	NC_021166.1	Ca_kabuli_chr07	5516928	TT	CC	1946880853
SNP_P4_91531_5517188	NC_021166.1	Ca_kabuli_chr07	5517188	CC	AA	1946880855
SNP_P4_91533_5517552	NC_021166.1	Ca_kabuli_chr07	5517552	TT	CC	1946880857
SNP_P4_91534_5517554	NC_021166.1	Ca_kabuli_chr07	5517554	TT	CC	1946880859
SNP_P4_91535_5517585	NC_021166.1	Ca_kabuli_chr07	5517585	AA	GG	1946880861
SNP_P4_91536_5518690	NC_021166.1	Ca_kabuli_chr07	5518690	CC	TT	1946880863
SNP_P4_91538_5521596	NC_021166.1	Ca_kabuli_chr07	5521596	TT	CC	1946880865
SNP_P4_91540_5524251	NC_021166.1	Ca_kabuli_chr07	5524251	AA	GG	1946880867
SNP_P4_91542_5525461	NC_021166.1	Ca_kabuli_chr07	5525461	AA	TT	1946880869
SNP_P4_91545_5525782	NC_021166.1	Ca_kabuli_chr07	5525782	TT	AA	1946880871
SNP_P4_91546_5525783	NC_021166.1	Ca_kabuli_chr07	5525783	CC	TT	1946880873
SNP_P4_91547_5525793	NC_021166.1	Ca_kabuli_chr07	5525793	TT	CC	1946880875
SNP_P4_91549_5529729	NC_021166.1	Ca_kabuli_chr07	5529729	AA	GG	1946880877
SNP_P4_91550_5529844	NC_021166.1	Ca_kabuli_chr07	5529844	CC	AA	1946880879
SNP_P4_91551_5529888	NC_021166.1	Ca_kabuli_chr07	5529888	AA	GG	1946880881
SNP_P4_91554_5532922	NC_021166.1	Ca_kabuli_chr07	5532922	AA	TT	1946880883
SNP_P4_91555_5533124	NC_021166.1	Ca_kabuli_chr07	5533124	TT	CC	1946880885
SNP_P4_91556_5537851	NC_021166.1	Ca_kabuli_chr07	5537851	GG	CC	1946880887
SNP_P4_91557_5537880	NC_021166.1	Ca_kabuli_chr07	5537880	GG	TT	1946880889
SNP_P4_91560_5540679	NC_021166.1	Ca_kabuli_chr07	5540679	AA	GG	1946880891
SNP_P4_91561_5540707	NC_021166.1	Ca_kabuli_chr07	5540707	GG	TT	1946880893
SNP_P4_91563_5541009	NC_021166.1	Ca_kabuli_chr07	5541009	GG	TT	1946880895
SNP_P4_91564_5541062	NC_021166.1	Ca_kabuli_chr07	5541062	GG	CC	1946880898
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SNP_P4_91566_5543692	NC_021166.1	Ca_kabuli_chr07	5543692	TT	AA	1946880902
SNP_P4_91567_5544036	NC_021166.1	Ca_kabuli_chr07	5544036	CC	TT	1946880904
SNP_P4_91568_5544074	NC_021166.1	Ca_kabuli_chr07	5544074	CC	GG	1946880906
SNP_P4_91569_5545450	NC_021166.1	Ca_kabuli_chr07	5545450	TT	AA	1946880908
SNP_P4_91570_5546523	NC_021166.1	Ca_kabuli_chr07	5546523	CC	TT	1946880910
SNP_P4_91571_5546557	NC_021166.1	Ca_kabuli_chr07	5546557	GG	AA	1946880911
SNP_P4_91572_5546812	NC_021166.1	Ca_kabuli_chr07	5546812	GG	AA	1946880913
SNP_P4_91573_5546819	NC_021166.1	Ca_kabuli_chr07	5546819	GG	AA	1946880915
SNP_P4_91574_5546823	NC_021166.1	Ca_kabuli_chr07	5546823	GG	AA	1946880917
SNP_P4_91575_5546838	NC_021166.1	Ca_kabuli_chr07	5546838	AA	GG	1946880919
SNP_P4_91576_5546843	NC_021166.1	Ca_kabuli_chr07	5546843	AA	GG	1946880921
SNP_P4_91577_5546844	NC_021166.1	Ca_kabuli_chr07	5546844	TT	CC	1946880923
SNP_P4_91578_5546858	NC_021166.1	Ca_kabuli_chr07	5546858	AA	GG	1946880925
SNP_P4_91579_5546895	NC_021166.1	Ca_kabuli_chr07	5546895	GG	AA	1946880927
SNP_P4_91580_5549428	NC_021166.1	Ca_kabuli_chr07	5549428	CC	TT	1946880929
SNP_P4_91582_5555089	NC_021166.1	Ca_kabuli_chr07	5555089	GG	AA	1946880931

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_91584_5557765	NC_021166.1	Ca_kabuli_chr07	5557765	TT	CC	1946880935
SNP_P4_91585_5558303	NC_021166.1	Ca_kabuli_chr07	5558303	TT	GG	1946880937
SNP_P4_91586_5558867	NC_021166.1	Ca_kabuli_chr07	5558867	AA	GG	1946880939
SNP_P4_91587_5559560	NC_021166.1	Ca_kabuli_chr07	5559560	GG	TT	1946880941
SNP_P4_91588_5559695	NC_021166.1	Ca_kabuli_chr07	5559695	TT	CC	1946880943
SNP_P4_91589_5559696	NC_021166.1	Ca_kabuli_chr07	5559696	GG	TT	1946880945
SNP_P4_91590_5559767	NC_021166.1	Ca_kabuli_chr07	5559767	CC	AA	1946880947
SNP_P4_91591_5559848	NC_021166.1	Ca_kabuli_chr07	5559848	TT	CC	1946880949
SNP_P4_91592_5559953	NC_021166.1	Ca_kabuli_chr07	5559953	AA	GG	1946880951
SNP_P4_91593_5560122	NC_021166.1	Ca_kabuli_chr07	5560122	CC	TT	1946880953
SNP_P4_91594_5562133	NC_021166.1	Ca_kabuli_chr07	5562133	GG	CC	1946880955
SNP_P4_91595_5562180	NC_021166.1	Ca_kabuli_chr07	5562180	GG	TT	1946880957
SNP_P4_91597_5562379	NC_021166.1	Ca_kabuli_chr07	5562379	AA	GG	1946880959
SNP_P4_91598_5562401	NC_021166.1	Ca_kabuli_chr07	5562401	CC	TT	1946880961
SNP_P4_91599_5562446	NC_021166.1	Ca_kabuli_chr07	5562446	GG	AA	1946880963
SNP_P4_91600_5563288	NC_021166.1	Ca_kabuli_chr07	5563288	GG	AA	1946880965
SNP_P4_91601_5563705	NC_021166.1	Ca_kabuli_chr07	5563705	CC	AA	1946880967
SNP_P4_91602_5565209	NC_021166.1	Ca_kabuli_chr07	5565209	AA	GG	1946880969
SNP_P4_91604_5567325	NC_021166.1	Ca_kabuli_chr07	5567325	TT	AA	1946880971
SNP_P4_91605_5567334	NC_021166.1	Ca_kabuli_chr07	5567334	GG	AA	1946880973
SNP_P4_91607_5567558	NC_021166.1	Ca_kabuli_chr07	5567558	GG	AA	1946880975
SNP_P4_91608_5567949	NC_021166.1	Ca_kabuli_chr07	5567949	GG	CC	1946880977
SNP_P4_91609_5568114	NC_021166.1	Ca_kabuli_chr07	5568114	CC	AA	1946880979
SNP_P4_91610_5569044	NC_021166.1	Ca_kabuli_chr07	5569044	GG	TT	1946880981
SNP_P4_91611_5569357	NC_021166.1	Ca_kabuli_chr07	5569357	AA	TT	1946880983
SNP_P4_91612_5569410	NC_021166.1	Ca_kabuli_chr07	5569410	TT	CC	1946880985
SNP_P4_91613_5569610	NC_021166.1	Ca_kabuli_chr07	5569610	TT	CC	1946880987
SNP_P4_91615_5569662	NC_021166.1	Ca_kabuli_chr07	5569662	TT	CC	1946880989
SNP_P4_91616_5569926	NC_021166.1	Ca_kabuli_chr07	5569926	AA	GG	1946880991
SNP_P4_91619_5572439	NC_021166.1	Ca_kabuli_chr07	5572439	TT	CC	1946880993
SNP_P4_91620_5572467	NC_021166.1	Ca_kabuli_chr07	5572467	TT	AA	1946880995
SNP_P4_91622_5572667	NC_021166.1	Ca_kabuli_chr07	5572667	GG	CC	1946880997
SNP_P4_91624_5573043	NC_021166.1	Ca_kabuli_chr07	5573043	TT	AA	1946880999
SNP_P4_91625_5574182	NC_021166.1	Ca_kabuli_chr07	5574182	CC	AA	1946881001
SNP_P4_91626_5574241	NC_021166.1	Ca_kabuli_chr07	5574241	TT	GG	1946881003
SNP_P4_91627_5574494	NC_021166.1	Ca_kabuli_chr07	5574494	GG	AA	1946881005
SNP_P4_91628_5574604	NC_021166.1	Ca_kabuli_chr07	5574604	CC	TT	1946881007
SNP_P4_91629_5576390	NC_021166.1	Ca_kabuli_chr07	5576390	TT	CC	1946881009
SNP_P4_91630_5576428	NC_021166.1	Ca_kabuli_chr07	5576428	AA	GG	1946881011
SNP_P4_91632_5576634	NC_021166.1	Ca_kabuli_chr07	5576634	TT	CC	1946881013
SNP_P4_91634_5578709	NC_021166.1	Ca_kabuli_chr07	5578709	CC	AA	1946881015

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_91636_5579652	NC_021166.1	Ca_kabuli_chr07	5579652	AA	GG	1946881019
SNP_P4_91637_5579837	NC_021166.1	Ca_kabuli_chr07	5579837	AA	GG	1946881021
SNP_P4_91638_5585868	NC_021166.1	Ca_kabuli_chr07	5585868	TT	CC	1946881023
SNP_P4_91639_5614372	NC_021166.1	Ca_kabuli_chr07	5614372	CC	TT	1946881025
SNP_P4_91640_5614527	NC_021166.1	Ca_kabuli_chr07	5614527	AA	TT	1946881027
SNP_P4_91641_5626057	NC_021166.1	Ca_kabuli_chr07	5626057	AA	CC	1946881029
SNP_P4_91642_5626314	NC_021166.1	Ca_kabuli_chr07	5626314	AA	GG	1946881031
SNP_P4_91645_5628101	NC_021166.1	Ca_kabuli_chr07	5628101	AA	TT	1946881033
SNP_P4_91646_5628123	NC_021166.1	Ca_kabuli_chr07	5628123	CC	TT	1946881035
SNP_P4_91647_5628132	NC_021166.1	Ca_kabuli_chr07	5628132	AA	TT	1946881037
SNP_P4_91648_5628156	NC_021166.1	Ca_kabuli_chr07	5628156	AA	TT	1946881039
SNP_P4_91652_5629464	NC_021166.1	Ca_kabuli_chr07	5629464	AA	CC	1946881041
SNP_P4_91653_5630786	NC_021166.1	Ca_kabuli_chr07	5630786	AA	TT	1946881043
SNP_P4_91654_5630820	NC_021166.1	Ca_kabuli_chr07	5630820	GG	AA	1946881045
SNP_P4_91655_5631039	NC_021166.1	Ca_kabuli_chr07	5631039	CC	AA	1946881047
SNP_P4_91656_5631075	NC_021166.1	Ca_kabuli_chr07	5631075	GG	CC	1946881049
SNP_P4_91657_5631890	NC_021166.1	Ca_kabuli_chr07	5631890	GG	AA	1946881052
SNP_P4_91658_5632919	NC_021166.1	Ca_kabuli_chr07	5632919	AA	GG	1946881054
SNP_P4_91659_5633053	NC_021166.1	Ca_kabuli_chr07	5633053	AA	GG	1946881056
SNP_P4_91661_5634121	NC_021166.1	Ca_kabuli_chr07	5634121	TT	CC	1946881058
SNP_P4_91662_5648170	NC_021166.1	Ca_kabuli_chr07	5648170	AA	GG	1946881060
SNP_P4_91663_5648227	NC_021166.1	Ca_kabuli_chr07	5648227	GG	AA	1946881062
SNP_P4_91665_5649562	NC_021166.1	Ca_kabuli_chr07	5649562	TT	CC	1946881064
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SNP_P4_91670_5650538	NC_021166.1	Ca_kabuli_chr07	5650538	TT	GG	1946881070
SNP_P4_91671_5650873	NC_021166.1	Ca_kabuli_chr07	5650873	CC	GG	1946881072
SNP_P4_91672_5651102	NC_021166.1	Ca_kabuli_chr07	5651102	AA	TT	1946881074
SNP_P4_91673_5651137	NC_021166.1	Ca_kabuli_chr07	5651137	AA	TT	1946881076
SNP_P4_91675_5652778	NC_021166.1	Ca_kabuli_chr07	5652778	TT	CC	1946881078
SNP_P4_91676_5653554	NC_021166.1	Ca_kabuli_chr07	5653554	TT	GG	1946881080
SNP_P4_91677_5655877	NC_021166.1	Ca_kabuli_chr07	5655877	CC	GG	1946881082
SNP_P4_91678_5655878	NC_021166.1	Ca_kabuli_chr07	5655878	GG	AA	1946881084
SNP_P4_91679_5656723	NC_021166.1	Ca_kabuli_chr07	5656723	GG	TT	1946881086
SNP_P4_91680_5658111	NC_021166.1	Ca_kabuli_chr07	5658111	CC	TT	1946881088
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SNP_P4_91683_5658628	NC_021166.1	Ca_kabuli_chr07	5658628	GG	AA	1946881092
SNP_P4_91684_5658648	NC_021166.1	Ca_kabuli_chr07	5658648	CC	AA	1946881094
SNP_P4_91685_5658717	NC_021166.1	Ca_kabuli_chr07	5658717	CC	TT	1946881096
SNP_P4_91686_5658718	NC_021166.1	Ca_kabuli_chr07	5658718	GG	AA	1946881098
SNP_P4_91687_5658730	NC_021166.1	Ca_kabuli_chr07	5658730	CC	TT	1946881100

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_91691_5659097	NC_021166.1	Ca_kabuli_chr07	5659097	GG	AA	1946881106
SNP_P4_91692_5659183	NC_021166.1	Ca_kabuli_chr07	5659183	AA	GG	1946881108
SNP_P4_91693_5659206	NC_021166.1	Ca_kabuli_chr07	5659206	TT	CC	1946881110
SNP_P4_91694_5659313	NC_021166.1	Ca_kabuli_chr07	5659313	AA	GG	1946881112
SNP_P4_91695_5661884	NC_021166.1	Ca_kabuli_chr07	5661884	GG	AA	1946881114
SNP_P4_91696_5661927	NC_021166.1	Ca_kabuli_chr07	5661927	AA	GG	1946881116
SNP_P4_91697_5661942	NC_021166.1	Ca_kabuli_chr07	5661942	CC	TT	1946881117
SNP_P4_91698_5662312	NC_021166.1	Ca_kabuli_chr07	5662312	CC	TT	1946881118
SNP_P4_91699_5662414	NC_021166.1	Ca_kabuli_chr07	5662414	CC	TT	1946881119
SNP_P4_91700_5662417	NC_021166.1	Ca_kabuli_chr07	5662417	GG	CC	1946881120
SNP_P4_91701_5662910	NC_021166.1	Ca_kabuli_chr07	5662910	GG	AA	1946881122
SNP_P4_91702_5663131	NC_021166.1	Ca_kabuli_chr07	5663131	AA	TT	1946881124
SNP_P4_91703_5663271	NC_021166.1	Ca_kabuli_chr07	5663271	GG	TT	1946881126
SNP_P4_91705_5663335	NC_021166.1	Ca_kabuli_chr07	5663335	CC	AA	1946881128
SNP_P4_91706_5663337	NC_021166.1	Ca_kabuli_chr07	5663337	CC	AA	1946881130
SNP_P4_91707_5663340	NC_021166.1	Ca_kabuli_chr07	5663340	GG	AA	1946881132
SNP_P4_91708_5663384	NC_021166.1	Ca_kabuli_chr07	5663384	CC	TT	1946881134
SNP_P4_91710_5666454	NC_021166.1	Ca_kabuli_chr07	5666454	AA	CC	1946881137
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SNP_P4_91712_5666705	NC_021166.1	Ca_kabuli_chr07	5666705	TT	CC	1946881141
SNP_P4_91713_5666810	NC_021166.1	Ca_kabuli_chr07	5666810	AA	CC	1946881143
SNP_P4_91714_5667013	NC_021166.1	Ca_kabuli_chr07	5667013	GG	AA	1946881145
SNP_P4_91716_5668076	NC_021166.1	Ca_kabuli_chr07	5668076	GG	AA	1946881147
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SNP_P4_91718_5669601	NC_021166.1	Ca_kabuli_chr07	5669601	CC	AA	1946881151
SNP_P4_91719_5670868	NC_021166.1	Ca_kabuli_chr07	5670868	TT	CC	1946881153
SNP_P4_91720_5670895	NC_021166.1	Ca_kabuli_chr07	5670895	CC	GG	1946881155
SNP_P4_91721_5671529	NC_021166.1	Ca_kabuli_chr07	5671529	AA	CC	1946881157
SNP_P4_91723_5671735	NC_021166.1	Ca_kabuli_chr07	5671735	CC	TT	1946881159
SNP_P4_91725_5671807	NC_021166.1	Ca_kabuli_chr07	5671807	TT	CC	1946881161
SNP_P4_91726_5671902	NC_021166.1	Ca_kabuli_chr07	5671902	GG	TT	1946881163
SNP_P4_91727_5672245	NC_021166.1	Ca_kabuli_chr07	5672245	CC	AA	1946881165
SNP_P4_91728_5672612	NC_021166.1	Ca_kabuli_chr07	5672612	AA	GG	1946881167
SNP_P4_91729_5672770	NC_021166.1	Ca_kabuli_chr07	5672770	CC	TT	1946881169
SNP_P4_91730_5672782	NC_021166.1	Ca_kabuli_chr07	5672782	CC	GG	1946881171
SNP_P4_91731_5673917	NC_021166.1	Ca_kabuli_chr07	5673917	GG	TT	1946881173
SNP_P4_91732_5675197	NC_021166.1	Ca_kabuli_chr07	5675197	CC	TT	1946881175
SNP_P4_91733_5675211	NC_021166.1	Ca_kabuli_chr07	5675211	CC	TT	1946881177
SNP_P4_91734_5678094	NC_021166.1	Ca_kabuli_chr07	5678094	AA	GG	1946881179
SNP_P4_91735_5679892	NC_021166.1	Ca_kabuli_chr07	5679892	CC	TT	1946881181

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_91737_5680890	NC_021166.1	Ca_kabuli_chr07	5680890	AA	GG	1946881185
SNP_P4_91739_5683352	NC_021166.1	Ca_kabuli_chr07	5683352	TT	AA	1946881187
SNP_P4_91740_5683412	NC_021166.1	Ca_kabuli_chr07	5683412	TT	AA	1946881189
SNP_P4_91741_5683635	NC_021166.1	Ca_kabuli_chr07	5683635	GG	CC	1946881191
SNP_P4_91742_5683708	NC_021166.1	Ca_kabuli_chr07	5683708	TT	GG	1946881193
SNP_P4_91743_5683709	NC_021166.1	Ca_kabuli_chr07	5683709	TT	AA	1946881195
SNP_P4_91744_5684249	NC_021166.1	Ca_kabuli_chr07	5684249	CC	TT	1946881197
SNP_P4_91746_5685270	NC_021166.1	Ca_kabuli_chr07	5685270	GG	AA	1946881199
SNP_P4_91750_5686621	NC_021166.1	Ca_kabuli_chr07	5686621	GG	TT	1946881201
SNP_P4_91752_5686696	NC_021166.1	Ca_kabuli_chr07	5686696	TT	AA	1946881203
SNP_P4_91754_5686731	NC_021166.1	Ca_kabuli_chr07	5686731	AA	TT	1946881205
SNP_P4_91755_5686804	NC_021166.1	Ca_kabuli_chr07	5686804	TT	AA	1946881207
SNP_P4_91757_5688892	NC_021166.1	Ca_kabuli_chr07	5688892	CC	TT	1946881209
SNP_P4_91758_5688895	NC_021166.1	Ca_kabuli_chr07	5688895	GG	TT	1946881211
SNP_P4_91759_5688899	NC_021166.1	Ca_kabuli_chr07	5688899	TT	CC	1946881213
SNP_P4_91760_5688907	NC_021166.1	Ca_kabuli_chr07	5688907	AA	GG	1946881215
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SNP_P4_91762_5688936	NC_021166.1	Ca_kabuli_chr07	5688936	TT	CC	1946881219
SNP_P4_91763_5689225	NC_021166.1	Ca_kabuli_chr07	5689225	TT	CC	1946881221
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SNP_P4_91766_5689391	NC_021166.1	Ca_kabuli_chr07	5689391	CC	TT	1946881224
SNP_P4_91767_5689417	NC_021166.1	Ca_kabuli_chr07	5689417	CC	TT	1946881226
SNP_P4_91768_5689551	NC_021166.1	Ca_kabuli_chr07	5689551	TT	GG	1946881228
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SNP_P4_91770_5689648	NC_021166.1	Ca_kabuli_chr07	5689648	TT	CC	1946881232
SNP_P4_91771_5689658	NC_021166.1	Ca_kabuli_chr07	5689658	AA	TT	1946881234
SNP_P4_91772_5692148	NC_021166.1	Ca_kabuli_chr07	5692148	AA	GG	1946881236
SNP_P4_91773_5692272	NC_021166.1	Ca_kabuli_chr07	5692272	CC	TT	1946881238
SNP_P4_91774_5693990	NC_021166.1	Ca_kabuli_chr07	5693990	GG	TT	1946881240
SNP_P4_91775_5694253	NC_021166.1	Ca_kabuli_chr07	5694253	AA	CC	1946881242
SNP_P4_91776_5694270	NC_021166.1	Ca_kabuli_chr07	5694270	CC	AA	1946881244
SNP_P4_91778_5695638	NC_021166.1	Ca_kabuli_chr07	5695638	TT	CC	1946881246
SNP_P4_91779_5695644	NC_021166.1	Ca_kabuli_chr07	5695644	AA	GG	1946881248
SNP_P4_91780_5695647	NC_021166.1	Ca_kabuli_chr07	5695647	CC	TT	1946881250
SNP_P4_91781_5696141	NC_021166.1	Ca_kabuli_chr07	5696141	CC	TT	1946881252
SNP_P4_91782_5696164	NC_021166.1	Ca_kabuli_chr07	5696164	CC	TT	1946881254
SNP_P4_91783_5696184	NC_021166.1	Ca_kabuli_chr07	5696184	AA	GG	1946881256
SNP_P4_91784_5697070	NC_021166.1	Ca_kabuli_chr07	5697070	AA	GG	1946881258
SNP_P4_91785_5697226	NC_021166.1	Ca_kabuli_chr07	5697226	TT	CC	1946881260
SNP_P4_91786_5697330	NC_021166.1	Ca_kabuli_chr07	5697330	TT	GG	1946881262
SNP_P4_91788_5697480	NC_021166.1	Ca_kabuli_chr07	5697480	TT	CC	1946881264

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_91793_5700144	NC_021166.1	Ca_kabuli_chr07	5700144	GG	AA	1946881270
SNP_P4_91794_5701330	NC_021166.1	Ca_kabuli_chr07	5701330	TT	GG	1946881272
SNP_P4_91795_5702568	NC_021166.1	Ca_kabuli_chr07	5702568	CC	TT	1946881273
SNP_P4_91796_5702574	NC_021166.1	Ca_kabuli_chr07	5702574	CC	TT	1946881275
SNP_P4_91798_5703700	NC_021166.1	Ca_kabuli_chr07	5703700	AA	GG	1946881277
SNP_P4_91799_5703985	NC_021166.1	Ca_kabuli_chr07	5703985	AA	GG	1946881279
SNP_P4_91801_5704996	NC_021166.1	Ca_kabuli_chr07	5704996	AA	GG	1946881281
SNP_P4_91802_5704998	NC_021166.1	Ca_kabuli_chr07	5704998	TT	GG	1946881283
SNP_P4_91803_5706083	NC_021166.1	Ca_kabuli_chr07	5706083	CC	TT	1946881285
SNP_P4_91804_5706472	NC_021166.1	Ca_kabuli_chr07	5706472	GG	AA	1946881287
SNP_P4_91805_5707216	NC_021166.1	Ca_kabuli_chr07	5707216	TT	CC	1946881289
SNP_P4_91806_5707391	NC_021166.1	Ca_kabuli_chr07	5707391	AA	CC	1946881291
SNP_P4_91807_5707405	NC_021166.1	Ca_kabuli_chr07	5707405	GG	CC	1946881293
SNP_P4_91808_5708834	NC_021166.1	Ca_kabuli_chr07	5708834	AA	TT	1946881295
SNP_P4_91809_5708851	NC_021166.1	Ca_kabuli_chr07	5708851	CC	GG	1946881297
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SNP_P4_91814_5713134	NC_021166.1	Ca_kabuli_chr07	5713134	TT	CC	1946881307
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SNP_P4_91825_5715073	NC_021166.1	Ca_kabuli_chr07	5715073	TT	AA	1946881328
SNP_P4_91826_5715140	NC_021166.1	Ca_kabuli_chr07	5715140	AA	GG	1946881330
SNP_P4_91827_5715156	NC_021166.1	Ca_kabuli_chr07	5715156	TT	CC	1946881333
SNP_P4_91829_5715456	NC_021166.1	Ca_kabuli_chr07	5715456	AA	TT	1946881335
SNP_P4_91830_5715476	NC_021166.1	Ca_kabuli_chr07	5715476	TT	CC	1946881337
SNP_P4_91831_5715477	NC_021166.1	Ca_kabuli_chr07	5715477	TT	AA	1946881339
SNP_P4_91832_5715624	NC_021166.1	Ca_kabuli_chr07	5715624	CC	GG	1946881341
SNP_P4_91833_5715630	NC_021166.1	Ca_kabuli_chr07	5715630	TT	AA	1946881343
SNP_P4_91834_5715670	NC_021166.1	Ca_kabuli_chr07	5715670	AA	CC	1946881345
SNP_P4_91835_5716209	NC_021166.1	Ca_kabuli_chr07	5716209	CC	TT	1946881347
SNP_P4_91836_5716210	NC_021166.1	Ca_kabuli_chr07	5716210	AA	TT	1946881349

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_91839_5716837	NC_021166.1	Ca_kabuli_chr07	5716837	AA	TT	1946881355
SNP_P4_91842_5717141	NC_021166.1	Ca_kabuli_chr07	5717141	CC	TT	1946881357
SNP_P4_91843_5717158	NC_021166.1	Ca_kabuli_chr07	5717158	GG	AA	1946881359
SNP_P4_91845_5717240	NC_021166.1	Ca_kabuli_chr07	5717240	CC	TT	1946881361
SNP_P4_91846_5717373	NC_021166.1	Ca_kabuli_chr07	5717373	CC	AA	1946881363
SNP_P4_91849_5718036	NC_021166.1	Ca_kabuli_chr07	5718036	AA	TT	1946881366
SNP_P4_91850_5718921	NC_021166.1	Ca_kabuli_chr07	5718921	AA	GG	1946881368
SNP_P4_91851_5718931	NC_021166.1	Ca_kabuli_chr07	5718931	GG	AA	1946881370
SNP_P4_91852_5718958	NC_021166.1	Ca_kabuli_chr07	5718958	CC	AA	1946881372
SNP_P4_91854_5719640	NC_021166.1	Ca_kabuli_chr07	5719640	AA	CC	1946881374
SNP_P4_91856_5722623	NC_021166.1	Ca_kabuli_chr07	5722623	GG	AA	1946881376
SNP_P4_91858_5723107	NC_021166.1	Ca_kabuli_chr07	5723107	CC	TT	1946881378
SNP_P4_91859_5723992	NC_021166.1	Ca_kabuli_chr07	5723992	CC	GG	1946881380
SNP_P4_91862_5725797	NC_021166.1	Ca_kabuli_chr07	5725797	AA	GG	1946881382
SNP_P4_91863_5726462	NC_021166.1	Ca_kabuli_chr07	5726462	CC	GG	1946881384
SNP_P4_91864_5726764	NC_021166.1	Ca_kabuli_chr07	5726764	AA	GG	1946881386
SNP_P4_91865_5728003	NC_021166.1	Ca_kabuli_chr07	5728003	TT	CC	1946881388
SNP_P4_91867_5732068	NC_021166.1	Ca_kabuli_chr07	5732068	TT	CC	1946881390
SNP_P4_91868_5732072	NC_021166.1	Ca_kabuli_chr07	5732072	CC	TT	1946881392
SNP_P4_91870_5733412	NC_021166.1	Ca_kabuli_chr07	5733412	TT	GG	1946881394
SNP_P4_91871_5734720	NC_021166.1	Ca_kabuli_chr07	5734720	TT	CC	1946881396
SNP_P4_91872_5735621	NC_021166.1	Ca_kabuli_chr07	5735621	AA	GG	1946881398
SNP_P4_91873_5735893	NC_021166.1	Ca_kabuli_chr07	5735893	GG	CC	1946881400
SNP_P4_91874_5735906	NC_021166.1	Ca_kabuli_chr07	5735906	TT	GG	1946881402
SNP_P4_91875_5737731	NC_021166.1	Ca_kabuli_chr07	5737731	TT	CC	1946881404
SNP_P4_91877_5740948	NC_021166.1	Ca_kabuli_chr07	5740948	AA	GG	1946881406
SNP_P4_91878_5741175	NC_021166.1	Ca_kabuli_chr07	5741175	CC	TT	1946881408
SNP_P4_91879_5742872	NC_021166.1	Ca_kabuli_chr07	5742872	AA	GG	1946881410
SNP_P4_91880_5745152	NC_021166.1	Ca_kabuli_chr07	5745152	AA	GG	1946881412
SNP_P4_91881_5745158	NC_021166.1	Ca_kabuli_chr07	5745158	GG	AA	1946881414
SNP_P4_91882_5745169	NC_021166.1	Ca_kabuli_chr07	5745169	AA	GG	1946881416
SNP_P4_91883_5745173	NC_021166.1	Ca_kabuli_chr07	5745173	GG	AA	1946881418
SNP_P4_91884_5745302	NC_021166.1	Ca_kabuli_chr07	5745302	TT	GG	1946881420
SNP_P4_91885_5745308	NC_021166.1	Ca_kabuli_chr07	5745308	CC	TT	1946881423
SNP_P4_91886_5745329	NC_021166.1	Ca_kabuli_chr07	5745329	AA	TT	1946881425
SNP_P4_91887_5745338	NC_021166.1	Ca_kabuli_chr07	5745338	TT	GG	1946881427
SNP_P4_91888_5745451	NC_021166.1	Ca_kabuli_chr07	5745451	GG	AA	1946881429
SNP_P4_91889_5745481	NC_021166.1	Ca_kabuli_chr07	5745481	GG	TT	1946881431
SNP_P4_91890_5745520	NC_021166.1	Ca_kabuli_chr07	5745520	TT	AA	1946881433
SNP_P4_91891_5745526	NC_021166.1	Ca_kabuli_chr07	5745526	AA	GG	1946881435

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_91893_5745562	NC_021166.1	Ca_kabuli_chr07	5745562	AA	TT	1946881439
SNP_P4_91894_5745567	NC_021166.1	Ca_kabuli_chr07	5745567	AA	GG	1946881441
SNP_P4_91895_5745569	NC_021166.1	Ca_kabuli_chr07	5745569	CC	TT	1946881443
SNP_P4_91896_5745583	NC_021166.1	Ca_kabuli_chr07	5745583	AA	TT	1946881445
SNP_P4_91897_5745587	NC_021166.1	Ca_kabuli_chr07	5745587	TT	CC	1946881447
SNP_P4_91898_5745589	NC_021166.1	Ca_kabuli_chr07	5745589	GG	AA	1946881449
SNP_P4_91899_5745594	NC_021166.1	Ca_kabuli_chr07	5745594	TT	AA	1946881451
SNP_P4_91900_5747376	NC_021166.1	Ca_kabuli_chr07	5747376	TT	CC	1946881453
SNP_P4_91901_5747618	NC_021166.1	Ca_kabuli_chr07	5747618	GG	TT	1946881455
SNP_P4_91902_5747619	NC_021166.1	Ca_kabuli_chr07	5747619	GG	AA	1946881457
SNP_P4_91903_5756269	NC_021166.1	Ca_kabuli_chr07	5756269	CC	TT	1946881459
SNP_P4_91904_5757339	NC_021166.1	Ca_kabuli_chr07	5757339	CC	GG	1946881461
SNP_P4_91905_5759875	NC_021166.1	Ca_kabuli_chr07	5759875	AA	GG	1946881463
SNP_P4_91906_5759877	NC_021166.1	Ca_kabuli_chr07	5759877	TT	CC	1946881465
SNP_P4_91908_5761360	NC_021166.1	Ca_kabuli_chr07	5761360	AA	CC	1946881467
SNP_P4_91909_5761555	NC_021166.1	Ca_kabuli_chr07	5761555	CC	GG	1946881469
SNP_P4_91910_5761572	NC_021166.1	Ca_kabuli_chr07	5761572	GG	TT	1946881471
SNP_P4_91911_5761637	NC_021166.1	Ca_kabuli_chr07	5761637	AA	TT	1946881473
SNP_P4_91912_5764084	NC_021166.1	Ca_kabuli_chr07	5764084	TT	CC	1946881475
SNP_P4_91913_5764117	NC_021166.1	Ca_kabuli_chr07	5764117	CC	TT	1946881477
SNP_P4_91914_5764138	NC_021166.1	Ca_kabuli_chr07	5764138	TT	GG	1946881479
SNP_P4_91915_5764141	NC_021166.1	Ca_kabuli_chr07	5764141	CC	TT	1946881481
SNP_P4_91916_5767805	NC_021166.1	Ca_kabuli_chr07	5767805	GG	AA	1946881483
SNP_P4_91917_5767841	NC_021166.1	Ca_kabuli_chr07	5767841	TT	AA	1946881485
SNP_P4_91918_5767842	NC_021166.1	Ca_kabuli_chr07	5767842	TT	AA	1946881487
SNP_P4_91920_5767903	NC_021166.1	Ca_kabuli_chr07	5767903	CC	TT	1946881489
SNP_P4_91921_5767982	NC_021166.1	Ca_kabuli_chr07	5767982	AA	GG	1946881491
SNP_P4_91922_5769021	NC_021166.1	Ca_kabuli_chr07	5769021	TT	CC	1946881492
SNP_P4_91923_5769279	NC_021166.1	Ca_kabuli_chr07	5769279	AA	CC	1946881494
SNP_P4_91924_5769392	NC_021166.1	Ca_kabuli_chr07	5769392	TT	AA	1946881496
SNP_P4_91925_5769421	NC_021166.1	Ca_kabuli_chr07	5769421	CC	TT	1946881498
SNP_P4_91926_5769450	NC_021166.1	Ca_kabuli_chr07	5769450	CC	TT	1946881500
SNP_P4_91927_5769569	NC_021166.1	Ca_kabuli_chr07	5769569	GG	AA	1946881502
SNP_P4_91928_5769645	NC_021166.1	Ca_kabuli_chr07	5769645	GG	TT	1946881504
SNP_P4_91929_5772722	NC_021166.1	Ca_kabuli_chr07	5772722	TT	CC	1946881506
SNP_P4_91930_5773123	NC_021166.1	Ca_kabuli_chr07	5773123	AA	GG	1946881508
SNP_P4_91931_5773348	NC_021166.1	Ca_kabuli_chr07	5773348	AA	TT	1946881510
SNP_P4_91932_5773444	NC_021166.1	Ca_kabuli_chr07	5773444	GG	AA	1946881512
SNP_P4_91933_5774491	NC_021166.1	Ca_kabuli_chr07	5774491	GG	AA	1946881514
SNP_P4_91934_5774885	NC_021166.1	Ca_kabuli_chr07	5774885	AA	CC	1946881516
SNP_P4_91935_5774887	NC_021166.1	Ca_kabuli_chr07	5774887	TT	AA	1946881518

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_91939_5775908	NC_021166.1	Ca_kabuli_chr07	5775908	GG	AA	1946881521
SNP_P4_91941_5778882	NC_021166.1	Ca_kabuli_chr07	5778882	TT	AA	1946881523
SNP_P4_91943_5778956	NC_021166.1	Ca_kabuli_chr07	5778956	CC	TT	1946881525
SNP_P4_91945_5779248	NC_021166.1	Ca_kabuli_chr07	5779248	GG	AA	1946881527
SNP_P4_91946_5779307	NC_021166.1	Ca_kabuli_chr07	5779307	GG	AA	1946881529
SNP_P4_91947_5779321	NC_021166.1	Ca_kabuli_chr07	5779321	GG	TT	1946881531
SNP_P4_91948_5779374	NC_021166.1	Ca_kabuli_chr07	5779374	CC	AA	1946881533
SNP_P4_91949_5779421	NC_021166.1	Ca_kabuli_chr07	5779421	TT	CC	1946881535
SNP_P4_91950_5779424	NC_021166.1	Ca_kabuli_chr07	5779424	CC	AA	1946881537
SNP_P4_91951_5779460	NC_021166.1	Ca_kabuli_chr07	5779460	AA	TT	1946881539
SNP_P4_91952_5779507	NC_021166.1	Ca_kabuli_chr07	5779507	GG	TT	1946881541
SNP_P4_91953_5781825	NC_021166.1	Ca_kabuli_chr07	5781825	CC	TT	1946881544
SNP_P4_91954_5782051	NC_021166.1	Ca_kabuli_chr07	5782051	CC	TT	1946881546
SNP_P4_91955_5783586	NC_021166.1	Ca_kabuli_chr07	5783586	GG	AA	1946881548
SNP_P4_91956_5784077	NC_021166.1	Ca_kabuli_chr07	5784077	TT	AA	1946881550
SNP_P4_91957_5784392	NC_021166.1	Ca_kabuli_chr07	5784392	AA	GG	1946881552
SNP_P4_91958_5784399	NC_021166.1	Ca_kabuli_chr07	5784399	CC	TT	1946881554
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SNP_P4_91960_5784641	NC_021166.1	Ca_kabuli_chr07	5784641	TT	CC	1946881558
SNP_P4_91963_5786326	NC_021166.1	Ca_kabuli_chr07	5786326	AA	TT	1946881560
SNP_P4_91964_5786640	NC_021166.1	Ca_kabuli_chr07	5786640	GG	AA	1946881562
SNP_P4_91965_5786955	NC_021166.1	Ca_kabuli_chr07	5786955	CC	AA	1946881564
SNP_P4_91966_5787042	NC_021166.1	Ca_kabuli_chr07	5787042	GG	CC	1946881566
SNP_P4_91968_5787087	NC_021166.1	Ca_kabuli_chr07	5787087	AA	GG	1946881568
SNP_P4_91969_5787188	NC_021166.1	Ca_kabuli_chr07	5787188	AA	CC	1946881570
SNP_P4_91970_5787860	NC_021166.1	Ca_kabuli_chr07	5787860	AA	CC	1946881572
SNP_P4_91971_5790666	NC_021166.1	Ca_kabuli_chr07	5790666	AA	CC	1946881574
SNP_P4_91974_5791113	NC_021166.1	Ca_kabuli_chr07	5791113	TT	AA	1946881576
SNP_P4_91976_5791242	NC_021166.1	Ca_kabuli_chr07	5791242	TT	AA	1946881578
SNP_P4_91977_5791275	NC_021166.1	Ca_kabuli_chr07	5791275	GG	AA	1946881580
SNP_P4_91978_5794165	NC_021166.1	Ca_kabuli_chr07	5794165	TT	CC	1946881582
SNP_P4_91979_5794361	NC_021166.1	Ca_kabuli_chr07	5794361	AA	GG	1946881584
SNP_P4_91980_5794745	NC_021166.1	Ca_kabuli_chr07	5794745	AA	TT	1946881586
SNP_P4_91981_5796812	NC_021166.1	Ca_kabuli_chr07	5796812	TT	AA	1946881588
SNP_P4_91982_5797028	NC_021166.1	Ca_kabuli_chr07	5797028	GG	AA	1946881590
SNP_P4_91984_5798071	NC_021166.1	Ca_kabuli_chr07	5798071	CC	AA	1946881592
SNP_P4_91985_5798090	NC_021166.1	Ca_kabuli_chr07	5798090	CC	TT	1946881594
SNP_P4_91986_5798177	NC_021166.1	Ca_kabuli_chr07	5798177	TT	CC	1946881596
SNP_P4_91987_5798282	NC_021166.1	Ca_kabuli_chr07	5798282	TT	AA	1946881598
SNP_P4_91988_5798461	NC_021166.1	Ca_kabuli_chr07	5798461	TT	CC	1946881600
SNP_P4_91989_5798553	NC_021166.1	Ca_kabuli_chr07	5798553	GG	CC	1946881602

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_91991_5799174	NC_021166.1	Ca_kabuli_chr07	5799174	CC	TT	1946881606
SNP_P4_91994_5800000	NC_021166.1	Ca_kabuli_chr07	5800000	AA	GG	1946881608
SNP_P4_91995_5800032	NC_021166.1	Ca_kabuli_chr07	5800032	CC	AA	1946881610
SNP_P4_91996_5800081	NC_021166.1	Ca_kabuli_chr07	5800081	TT	CC	1946881612
SNP_P4_91997_5800463	NC_021166.1	Ca_kabuli_chr07	5800463	TT	CC	1946881614
SNP_P4_92000_5802355	NC_021166.1	Ca_kabuli_chr07	5802355	CC	GG	1946881616
SNP_P4_92001_5802363	NC_021166.1	Ca_kabuli_chr07	5802363	CC	AA	1946881618
SNP_P4_92002_5803525	NC_021166.1	Ca_kabuli_chr07	5803525	AA	CC	1946881620
SNP_P4_92004_5803551	NC_021166.1	Ca_kabuli_chr07	5803551	GG	AA	1946881622
SNP_P4_92005_5803735	NC_021166.1	Ca_kabuli_chr07	5803735	TT	AA	1946881624
SNP_P4_92007_5804060	NC_021166.1	Ca_kabuli_chr07	5804060	AA	GG	1946881626
SNP_P4_92008_5804078	NC_021166.1	Ca_kabuli_chr07	5804078	TT	CC	1946881628
SNP_P4_92009_5804472	NC_021166.1	Ca_kabuli_chr07	5804472	CC	TT	1946881630
SNP_P4_92010_5804836	NC_021166.1	Ca_kabuli_chr07	5804836	GG	AA	1946881632
SNP_P4_92011_5804896	NC_021166.1	Ca_kabuli_chr07	5804896	TT	AA	1946881634
SNP_P4_92012_5805258	NC_021166.1	Ca_kabuli_chr07	5805258	GG	AA	1946881636
SNP_P4_92013_5805415	NC_021166.1	Ca_kabuli_chr07	5805415	GG	CC	1946881638
SNP_P4_92014_5805733	NC_021166.1	Ca_kabuli_chr07	5805733	GG	AA	1946881640
SNP_P4_92015_5806292	NC_021166.1	Ca_kabuli_chr07	5806292	AA	GG	1946881642
SNP_P4_92016_5806293	NC_021166.1	Ca_kabuli_chr07	5806293	GG	AA	1946881644
SNP_P4_92017_5806308	NC_021166.1	Ca_kabuli_chr07	5806308	CC	TT	1946881646
SNP_P4_92018_5806323	NC_021166.1	Ca_kabuli_chr07	5806323	AA	TT	1946881648
SNP_P4_92019_5806337	NC_021166.1	Ca_kabuli_chr07	5806337	AA	GG	1946881650
SNP_P4_92020_5806668	NC_021166.1	Ca_kabuli_chr07	5806668	AA	GG	1946881652
SNP_P4_92022_5807848	NC_021166.1	Ca_kabuli_chr07	5807848	AA	CC	1946881654
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SNP_P4_92024_5810315	NC_021166.1	Ca_kabuli_chr07	5810315	CC	TT	1946881657
SNP_P4_92025_5811251	NC_021166.1	Ca_kabuli_chr07	5811251	AA	CC	1946881659
SNP_P4_92026_5812505	NC_021166.1	Ca_kabuli_chr07	5812505	AA	TT	1946881661
SNP_P4_92027_5813338	NC_021166.1	Ca_kabuli_chr07	5813338	CC	TT	1946881663
SNP_P4_92029_5813860	NC_021166.1	Ca_kabuli_chr07	5813860	CC	TT	1946881665
SNP_P4_92030_5813885	NC_021166.1	Ca_kabuli_chr07	5813885	TT	CC	1946881667
SNP_P4_92031_5817057	NC_021166.1	Ca_kabuli_chr07	5817057	CC	GG	1946881669
SNP_P4_92032_5817077	NC_021166.1	Ca_kabuli_chr07	5817077	CC	GG	1946881671
SNP_P4_92033_5817100	NC_021166.1	Ca_kabuli_chr07	5817100	AA	GG	1946881673
SNP_P4_92034_5817354	NC_021166.1	Ca_kabuli_chr07	5817354	CC	AA	1946881675
SNP_P4_92036_5817705	NC_021166.1	Ca_kabuli_chr07	5817705	TT	CC	1946881677
SNP_P4_92037_5817761	NC_021166.1	Ca_kabuli_chr07	5817761	CC	TT	1946881679
SNP_P4_92038_5817773	NC_021166.1	Ca_kabuli_chr07	5817773	AA	GG	1946881680
SNP_P4_92039_5817780	NC_021166.1	Ca_kabuli_chr07	5817780	CC	TT	1946881682
SNP_P4_92040_5817804	NC_021166.1	Ca_kabuli_chr07	5817804	AA	GG	1946881684

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_92042_5818391	NC_021166.1	Ca_kabuli_chr07	5818391	AA	GG	1946881688
SNP_P4_92043_5818407	NC_021166.1	Ca_kabuli_chr07	5818407	GG	CC	1946881690
SNP_P4_92044_5818416	NC_021166.1	Ca_kabuli_chr07	5818416	TT	CC	1946881692
SNP_P4_92045_5818450	NC_021166.1	Ca_kabuli_chr07	5818450	GG	AA	1946881694
SNP_P4_92046_5818595	NC_021166.1	Ca_kabuli_chr07	5818595	AA	GG	1946881696
SNP_P4_92047_5818610	NC_021166.1	Ca_kabuli_chr07	5818610	CC	TT	1946881698
SNP_P4_92048_5818674	NC_021166.1	Ca_kabuli_chr07	5818674	CC	TT	1946881700
SNP_P4_92051_5819025	NC_021166.1	Ca_kabuli_chr07	5819025	CC	GG	1946881702
SNP_P4_92052_5819204	NC_021166.1	Ca_kabuli_chr07	5819204	AA	CC	1946881704
SNP_P4_92054_5819234	NC_021166.1	Ca_kabuli_chr07	5819234	GG	AA	1946881706
SNP_P4_92055_5820118	NC_021166.1	Ca_kabuli_chr07	5820118	TT	AA	1946881708
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SNP_P4_92058_5820303	NC_021166.1	Ca_kabuli_chr07	5820303	TT	GG	1946881715
SNP_P4_92059_5820738	NC_021166.1	Ca_kabuli_chr07	5820738	GG	CC	1946881717
SNP_P4_92061_5821923	NC_021166.1	Ca_kabuli_chr07	5821923	AA	CC	1946881719
SNP_P4_92062_5822257	NC_021166.1	Ca_kabuli_chr07	5822257	TT	AA	1946881721
SNP_P4_92063_5822787	NC_021166.1	Ca_kabuli_chr07	5822787	CC	GG	1946881723
SNP_P4_92064_5822812	NC_021166.1	Ca_kabuli_chr07	5822812	CC	TT	1946881725
SNP_P4_92065_5826000	NC_021166.1	Ca_kabuli_chr07	5826000	TT	AA	1946881727
SNP_P4_92066_5826270	NC_021166.1	Ca_kabuli_chr07	5826270	CC	TT	1946881729
SNP_P4_92067_5826321	NC_021166.1	Ca_kabuli_chr07	5826321	CC	TT	1946881731
SNP_P4_92068_5826327	NC_021166.1	Ca_kabuli_chr07	5826327	GG	AA	1946881733
SNP_P4_92069_5826332	NC_021166.1	Ca_kabuli_chr07	5826332	AA	TT	1946881735
SNP_P4_92070_5827537	NC_021166.1	Ca_kabuli_chr07	5827537	GG	AA	1946881737
SNP_P4_92071_5827580	NC_021166.1	Ca_kabuli_chr07	5827580	GG	AA	1946881739
SNP_P4_92072_5827729	NC_021166.1	Ca_kabuli_chr07	5827729	AA	TT	1946881741
SNP_P4_92073_5827890	NC_021166.1	Ca_kabuli_chr07	5827890	TT	CC	1946881743
SNP_P4_92074_5827898	NC_021166.1	Ca_kabuli_chr07	5827898	CC	TT	1946881745
SNP_P4_92075_5827926	NC_021166.1	Ca_kabuli_chr07	5827926	CC	AA	1946881747
SNP_P4_92076_5827967	NC_021166.1	Ca_kabuli_chr07	5827967	TT	CC	1946881749
SNP_P4_92077_5828022	NC_021166.1	Ca_kabuli_chr07	5828022	TT	CC	1946881751
SNP_P4_92078_5828025	NC_021166.1	Ca_kabuli_chr07	5828025	CC	TT	1946881753
SNP_P4_92079_5828027	NC_021166.1	Ca_kabuli_chr07	5828027	AA	TT	1946881755
SNP_P4_92080_5828040	NC_021166.1	Ca_kabuli_chr07	5828040	TT	CC	1946881757
SNP_P4_92081_5828045	NC_021166.1	Ca_kabuli_chr07	5828045	CC	TT	1946881759
SNP_P4_92082_5828200	NC_021166.1	Ca_kabuli_chr07	5828200	AA	TT	1946881761
SNP_P4_92083_5828245	NC_021166.1	Ca_kabuli_chr07	5828245	CC	AA	1946881763
SNP_P4_92084_5828250	NC_021166.1	Ca_kabuli_chr07	5828250	GG	CC	1946881765
SNP_P4_92085_5830865	NC_021166.1	Ca_kabuli_chr07	5830865	CC	TT	1946881767
SNP_P4_92088_5836534	NC_021166.1	Ca_kabuli_chr07	5836534	TT	CC	1946881769

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_92090_5836796	NC_021166.1	Ca_kabuli_chr07	5836796	CC	GG	1946881773
SNP_P4_92091_5836819	NC_021166.1	Ca_kabuli_chr07	5836819	CC	TT	1946881775
SNP_P4_92092_5836849	NC_021166.1	Ca_kabuli_chr07	5836849	GG	AA	1946881777
SNP_P4_92093_5837145	NC_021166.1	Ca_kabuli_chr07	5837145	AA	GG	1946881779
SNP_P4_92094_5837220	NC_021166.1	Ca_kabuli_chr07	5837220	GG	TT	1946881781
SNP_P4_92095_5837643	NC_021166.1	Ca_kabuli_chr07	5837643	TT	CC	1946881783
SNP_P4_92096_5838151	NC_021166.1	Ca_kabuli_chr07	5838151	CC	TT	1946881785
SNP_P4_92097_5838449	NC_021166.1	Ca_kabuli_chr07	5838449	CC	TT	1946881787
SNP_P4_92098_5838471	NC_021166.1	Ca_kabuli_chr07	5838471	TT	CC	1946881789
SNP_P4_92099_5838531	NC_021166.1	Ca_kabuli_chr07	5838531	AA	GG	1946881791
SNP_P4_92100_5838532	NC_021166.1	Ca_kabuli_chr07	5838532	GG	AA	1946881793
SNP_P4_92102_5838917	NC_021166.1	Ca_kabuli_chr07	5838917	TT	CC	1946881795
SNP_P4_92103_5838969	NC_021166.1	Ca_kabuli_chr07	5838969	GG	AA	1946881797
SNP_P4_92105_5841649	NC_021166.1	Ca_kabuli_chr07	5841649	TT	GG	1946881799
SNP_P4_92106_5841650	NC_021166.1	Ca_kabuli_chr07	5841650	TT	CC	1946881801
SNP_P4_92108_5841723	NC_021166.1	Ca_kabuli_chr07	5841723	TT	CC	1946881803
SNP_P4_92109_5841763	NC_021166.1	Ca_kabuli_chr07	5841763	TT	CC	1946881805
SNP_P4_92111_5841927	NC_021166.1	Ca_kabuli_chr07	5841927	CC	GG	1946881807
SNP_P4_92113_5842487	NC_021166.1	Ca_kabuli_chr07	5842487	GG	TT	1946881809
SNP_P4_92114_5842506	NC_021166.1	Ca_kabuli_chr07	5842506	CC	AA	1946881811
SNP_P4_92116_5842781	NC_021166.1	Ca_kabuli_chr07	5842781	AA	CC	1946881813
SNP_P4_92117_5842819	NC_021166.1	Ca_kabuli_chr07	5842819	GG	TT	1946881815
SNP_P4_92118_5842823	NC_021166.1	Ca_kabuli_chr07	5842823	GG	AA	1946881817
SNP_P4_92120_5843231	NC_021166.1	Ca_kabuli_chr07	5843231	GG	AA	1946881819
SNP_P4_92122_5843968	NC_021166.1	Ca_kabuli_chr07	5843968	CC	TT	1946881821
SNP_P4_92123_5846477	NC_021166.1	Ca_kabuli_chr07	5846477	AA	GG	1946881823
SNP_P4_92124_5846953	NC_021166.1	Ca_kabuli_chr07	5846953	GG	AA	1946881825
SNP_P4_92125_5847957	NC_021166.1	Ca_kabuli_chr07	5847957	AA	CC	1946881827
SNP_P4_92126_5850325	NC_021166.1	Ca_kabuli_chr07	5850325	GG	AA	1946881829
SNP_P4_92127_5850341	NC_021166.1	Ca_kabuli_chr07	5850341	AA	GG	1946881831
SNP_P4_92128_5850620	NC_021166.1	Ca_kabuli_chr07	5850620	TT	GG	1946881833
SNP_P4_92130_5850658	NC_021166.1	Ca_kabuli_chr07	5850658	AA	GG	1946881835
SNP_P4_92133_5851590	NC_021166.1	Ca_kabuli_chr07	5851590	TT	AA	1946881838
SNP_P4_92134_5851591	NC_021166.1	Ca_kabuli_chr07	5851591	AA	GG	1946881840
SNP_P4_92135_5851594	NC_021166.1	Ca_kabuli_chr07	5851594	CC	AA	1946881842
SNP_P4_92136_5851596	NC_021166.1	Ca_kabuli_chr07	5851596	TT	CC	1946881844
SNP_P4_92137_5851598	NC_021166.1	Ca_kabuli_chr07	5851598	TT	CC	1946881846
SNP_P4_92138_5851616	NC_021166.1	Ca_kabuli_chr07	5851616	GG	AA	1946881848
SNP_P4_92139_5851788	NC_021166.1	Ca_kabuli_chr07	5851788	AA	GG	1946881850
SNP_P4_92140_5851879	NC_021166.1	Ca_kabuli_chr07	5851879	AA	GG	1946881852
SNP_P4_92141_5851904	NC_021166.1	Ca_kabuli_chr07	5851904	CC	TT	1946881854

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_92144_5852978	NC_021166.1	Ca_kabuli_chr07	5852978	AA	GG	1946881858
SNP_P4_92145_5853254	NC_021166.1	Ca_kabuli_chr07	5853254	CC	GG	1946881860
SNP_P4_92146_5853545	NC_021166.1	Ca_kabuli_chr07	5853545	TT	CC	1946881862
SNP_P4_92148_5857704	NC_021166.1	Ca_kabuli_chr07	5857704	TT	CC	1946881864
SNP_P4_92149_5858345	NC_021166.1	Ca_kabuli_chr07	5858345	AA	GG	1946881866
SNP_P4_92150_5858513	NC_021166.1	Ca_kabuli_chr07	5858513	CC	TT	1946881868
SNP_P4_92152_5861237	NC_021166.1	Ca_kabuli_chr07	5861237	CC	TT	1946881870
SNP_P4_92153_5861804	NC_021166.1	Ca_kabuli_chr07	5861804	AA	GG	1946881872
SNP_P4_92156_5865548	NC_021166.1	Ca_kabuli_chr07	5865548	AA	CC	1946881875
SNP_P4_92159_5867287	NC_021166.1	Ca_kabuli_chr07	5867287	CC	GG	1946881877
SNP_P4_92161_5868088	NC_021166.1	Ca_kabuli_chr07	5868088	GG	AA	1946881879
SNP_P4_92162_5868384	NC_021166.1	Ca_kabuli_chr07	5868384	TT	GG	1946881881
SNP_P4_92163_5868392	NC_021166.1	Ca_kabuli_chr07	5868392	CC	TT	1946881883
SNP_P4_92165_5868433	NC_021166.1	Ca_kabuli_chr07	5868433	AA	GG	1946881885
SNP_P4_92166_5868452	NC_021166.1	Ca_kabuli_chr07	5868452	GG	TT	1946881887
SNP_P4_92167_5868473	NC_021166.1	Ca_kabuli_chr07	5868473	CC	TT	1946881889
SNP_P4_92168_5868478	NC_021166.1	Ca_kabuli_chr07	5868478	CC	TT	1946881891
SNP_P4_92169_5868480	NC_021166.1	Ca_kabuli_chr07	5868480	CC	TT	1946881893
SNP_P4_92170_5868490	NC_021166.1	Ca_kabuli_chr07	5868490	CC	TT	1946881895
SNP_P4_92171_5868492	NC_021166.1	Ca_kabuli_chr07	5868492	CC	TT	1946881897
SNP_P4_92172_5868737	NC_021166.1	Ca_kabuli_chr07	5868737	AA	CC	1946881899
SNP_P4_92173_5868961	NC_021166.1	Ca_kabuli_chr07	5868961	GG	AA	1946881901
SNP_P4_92174_5869383	NC_021166.1	Ca_kabuli_chr07	5869383	CC	GG	1946881903
SNP_P4_92175_5869429	NC_021166.1	Ca_kabuli_chr07	5869429	GG	TT	1946881905
SNP_P4_92176_5869444	NC_021166.1	Ca_kabuli_chr07	5869444	AA	TT	1946881907
SNP_P4_92177_5869445	NC_021166.1	Ca_kabuli_chr07	5869445	TT	GG	1946881909
SNP_P4_92178_5869459	NC_021166.1	Ca_kabuli_chr07	5869459	AA	GG	1946881911
SNP_P4_92179_5869692	NC_021166.1	Ca_kabuli_chr07	5869692	AA	TT	1946881913
SNP_P4_92180_5870604	NC_021166.1	Ca_kabuli_chr07	5870604	GG	TT	1946881915
SNP_P4_92181_5870621	NC_021166.1	Ca_kabuli_chr07	5870621	AA	CC	1946881917
SNP_P4_92182_5870685	NC_021166.1	Ca_kabuli_chr07	5870685	TT	CC	1946881919
SNP_P4_92184_5870722	NC_021166.1	Ca_kabuli_chr07	5870722	TT	GG	1946881921
SNP_P4_92185_5870768	NC_021166.1	Ca_kabuli_chr07	5870768	GG	TT	1946881923
SNP_P4_92186_5870796	NC_021166.1	Ca_kabuli_chr07	5870796	CC	TT	1946881925
SNP_P4_92187_5870798	NC_021166.1	Ca_kabuli_chr07	5870798	AA	GG	1946881927
SNP_P4_92189_5871597	NC_021166.1	Ca_kabuli_chr07	5871597	GG	AA	1946881929
SNP_P4_92190_5871659	NC_021166.1	Ca_kabuli_chr07	5871659	TT	CC	1946881931
SNP_P4_92191_5871660	NC_021166.1	Ca_kabuli_chr07	5871660	GG	AA	1946881933
SNP_P4_92192_5871678	NC_021166.1	Ca_kabuli_chr07	5871678	GG	AA	1946881935
SNP_P4_92193_5872303	NC_021166.1	Ca_kabuli_chr07	5872303	AA	GG	1946881937
SNP_P4_92194_5872307	NC_021166.1	Ca_kabuli_chr07	5872307	AA	TT	1946881939

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_92196_5872333	NC_021166.1	Ca_kabuli_chr07	5872333	TT	CC	1946881943
SNP_P4_92197_5872349	NC_021166.1	Ca_kabuli_chr07	5872349	TT	CC	1946881945
SNP_P4_92198_5872363	NC_021166.1	Ca_kabuli_chr07	5872363	TT	AA	1946881947
SNP_P4_92199_5872376	NC_021166.1	Ca_kabuli_chr07	5872376	AA	TT	1946881949
SNP_P4_92200_5872380	NC_021166.1	Ca_kabuli_chr07	5872380	TT	CC	1946881951
SNP_P4_92201_5872535	NC_021166.1	Ca_kabuli_chr07	5872535	AA	GG	1946881953
SNP_P4_92202_5872546	NC_021166.1	Ca_kabuli_chr07	5872546	GG	AA	1946881955
SNP_P4_92203_5872574	NC_021166.1	Ca_kabuli_chr07	5872574	AA	GG	1946881958
SNP_P4_92204_5872621	NC_021166.1	Ca_kabuli_chr07	5872621	TT	GG	1946881960
SNP_P4_92205_5873153	NC_021166.1	Ca_kabuli_chr07	5873153	TT	CC	1946881962
SNP_P4_92206_5873327	NC_021166.1	Ca_kabuli_chr07	5873327	AA	TT	1946881964
SNP_P4_92207_5873329	NC_021166.1	Ca_kabuli_chr07	5873329	CC	TT	1946881966
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SNP_P4_92209_5873714	NC_021166.1	Ca_kabuli_chr07	5873714	CC	TT	1946881970
SNP_P4_92210_5874265	NC_021166.1	Ca_kabuli_chr07	5874265	CC	TT	1946881972
SNP_P4_92211_5874275	NC_021166.1	Ca_kabuli_chr07	5874275	CC	AA	1946881974
SNP_P4_92212_5874285	NC_021166.1	Ca_kabuli_chr07	5874285	AA	GG	1946881976
SNP_P4_92213_5874294	NC_021166.1	Ca_kabuli_chr07	5874294	AA	TT	1946881978
SNP_P4_92215_5874610	NC_021166.1	Ca_kabuli_chr07	5874610	TT	CC	1946881980
SNP_P4_92216_5874638	NC_021166.1	Ca_kabuli_chr07	5874638	GG	TT	1946881982
SNP_P4_92218_5875001	NC_021166.1	Ca_kabuli_chr07	5875001	AA	TT	1946881984
SNP_P4_92219_5875004	NC_021166.1	Ca_kabuli_chr07	5875004	CC	GG	1946881986
SNP_P4_92220_5875012	NC_021166.1	Ca_kabuli_chr07	5875012	AA	GG	1946881989
SNP_P4_92222_5875179	NC_021166.1	Ca_kabuli_chr07	5875179	CC	TT	1946881990
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SNP_P4_92226_5875331	NC_021166.1	Ca_kabuli_chr07	5875331	TT	GG	1946881995
SNP_P4_92227_5875365	NC_021166.1	Ca_kabuli_chr07	5875365	AA	TT	1946881997
SNP_P4_92228_5875533	NC_021166.1	Ca_kabuli_chr07	5875533	AA	TT	1946881999
SNP_P4_92229_5876172	NC_021166.1	Ca_kabuli_chr07	5876172	AA	TT	1946882001
SNP_P4_92230_5876256	NC_021166.1	Ca_kabuli_chr07	5876256	GG	AA	1946882003
SNP_P4_92232_5876408	NC_021166.1	Ca_kabuli_chr07	5876408	GG	CC	1946882005
SNP_P4_92233_5876417	NC_021166.1	Ca_kabuli_chr07	5876417	GG	AA	1946882007
SNP_P4_92234_5876433	NC_021166.1	Ca_kabuli_chr07	5876433	GG	CC	1946882009
SNP_P4_92235_5876630	NC_021166.1	Ca_kabuli_chr07	5876630	GG	AA	1946882011
SNP_P4_92236_5876670	NC_021166.1	Ca_kabuli_chr07	5876670	CC	TT	1946882013
SNP_P4_92238_5877626	NC_021166.1	Ca_kabuli_chr07	5877626	CC	TT	1946882015
SNP_P4_92239_5878053	NC_021166.1	Ca_kabuli_chr07	5878053	CC	TT	1946882017
SNP_P4_92240_5878063	NC_021166.1	Ca_kabuli_chr07	5878063	CC	TT	1946882019
SNP_P4_92241_5878080	NC_021166.1	Ca_kabuli_chr07	5878080	CC	TT	1946882021
SNP_P4_92242_5878099	NC_021166.1	Ca_kabuli_chr07	5878099	TT	AA	1946882023
SNP_P4_92243_5878102	NC_021166.1	Ca_kabuli_chr07	5878102	TT	CC	1946882025

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_92245_5882674	NC_021166.1	Ca_kabuli_chr07	5882674	CC	AA	1946882029
SNP_P4_92246_5882974	NC_021166.1	Ca_kabuli_chr07	5882974	TT	CC	1946882031
SNP_P4_92247_5883991	NC_021166.1	Ca_kabuli_chr07	5883991	AA	GG	1946882033
SNP_P4_92248_5884593	NC_021166.1	Ca_kabuli_chr07	5884593	TT	CC	1946882035
SNP_P4_92250_5884725	NC_021166.1	Ca_kabuli_chr07	5884725	AA	GG	1946882037
SNP_P4_92253_5884974	NC_021166.1	Ca_kabuli_chr07	5884974	TT	GG	1946882039
SNP_P4_92254_5884999	NC_021166.1	Ca_kabuli_chr07	5884999	AA	TT	1946882041
SNP_P4_92256_5886692	NC_021166.1	Ca_kabuli_chr07	5886692	AA	TT	1946882043
SNP_P4_92258_5887011	NC_021166.1	Ca_kabuli_chr07	5887011	AA	TT	1946882045
SNP_P4_92259_5888561	NC_021166.1	Ca_kabuli_chr07	5888561	AA	TT	1946882047
SNP_P4_92260_5888566	NC_021166.1	Ca_kabuli_chr07	5888566	AA	GG	1946882049
SNP_P4_92262_5889257	NC_021166.1	Ca_kabuli_chr07	5889257	AA	GG	1946882051
SNP_P4_92263_5889274	NC_021166.1	Ca_kabuli_chr07	5889274	AA	TT	1946882053
SNP_P4_92264_5889288	NC_021166.1	Ca_kabuli_chr07	5889288	GG	TT	1946882055
SNP_P4_92265_5889293	NC_021166.1	Ca_kabuli_chr07	5889293	TT	CC	1946882057
SNP_P4_92266_5889486	NC_021166.1	Ca_kabuli_chr07	5889486	TT	CC	1946882059
SNP_P4_92267_5889770	NC_021166.1	Ca_kabuli_chr07	5889770	TT	AA	1946882061
SNP_P4_92268_5889955	NC_021166.1	Ca_kabuli_chr07	5889955	GG	AA	1946882063
SNP_P4_92269_5890074	NC_021166.1	Ca_kabuli_chr07	5890074	TT	AA	1946882065
SNP_P4_92270_5890197	NC_021166.1	Ca_kabuli_chr07	5890197	TT	AA	1946882067
SNP_P4_92272_5890427	NC_021166.1	Ca_kabuli_chr07	5890427	TT	CC	1946882069
SNP_P4_92273_5890998	NC_021166.1	Ca_kabuli_chr07	5890998	CC	AA	1946882071
SNP_P4_92275_5891850	NC_021166.1	Ca_kabuli_chr07	5891850	GG	TT	1946882073
SNP_P4_92279_5894137	NC_021166.1	Ca_kabuli_chr07	5894137	GG	AA	1946882074
SNP_P4_92280_5894152	NC_021166.1	Ca_kabuli_chr07	5894152	AA	CC	1946882076
SNP_P4_92281_5894155	NC_021166.1	Ca_kabuli_chr07	5894155	GG	CC	1946882078
SNP_P4_92282_5894384	NC_021166.1	Ca_kabuli_chr07	5894384	GG	TT	1946882080
SNP_P4_92283_5894385	NC_021166.1	Ca_kabuli_chr07	5894385	CC	TT	1946882082
SNP_P4_92284_5894405	NC_021166.1	Ca_kabuli_chr07	5894405	CC	TT	1946882084
SNP_P4_92286_5894515	NC_021166.1	Ca_kabuli_chr07	5894515	TT	CC	1946882086
SNP_P4_92287_5894516	NC_021166.1	Ca_kabuli_chr07	5894516	GG	AA	1946882088
SNP_P4_92288_5894520	NC_021166.1	Ca_kabuli_chr07	5894520	AA	TT	1946882090
SNP_P4_92289_5894569	NC_021166.1	Ca_kabuli_chr07	5894569	TT	GG	1946882092
SNP_P4_92291_5895934	NC_021166.1	Ca_kabuli_chr07	5895934	TT	AA	1946882094
SNP_P4_92293_5896471	NC_021166.1	Ca_kabuli_chr07	5896471	AA	TT	1946882096
SNP_P4_92295_5896498	NC_021166.1	Ca_kabuli_chr07	5896498	TT	AA	1946882098
SNP_P4_92296_5896634	NC_021166.1	Ca_kabuli_chr07	5896634	GG	TT	1946882100
SNP_P4_92297_5896900	NC_021166.1	Ca_kabuli_chr07	5896900	TT	AA	1946882102
SNP_P4_92298_5896923	NC_021166.1	Ca_kabuli_chr07	5896923	CC	TT	1946882104
SNP_P4_92299_5896925	NC_021166.1	Ca_kabuli_chr07	5896925	CC	AA	1946882106
SNP_P4_92301_5897240	NC_021166.1	Ca_kabuli_chr07	5897240	AA	TT	1946882108

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_92304_5899936	NC_021166.1	Ca_kabuli_chr07	5899936	CC	TT	1946882112
SNP_P4_92305_5899978	NC_021166.1	Ca_kabuli_chr07	5899978	AA	GG	1946882114
SNP_P4_92306_5899982	NC_021166.1	Ca_kabuli_chr07	5899982	AA	GG	1946882116
SNP_P4_92308_5900195	NC_021166.1	Ca_kabuli_chr07	5900195	AA	GG	1946882118
SNP_P4_92309_5900306	NC_021166.1	Ca_kabuli_chr07	5900306	CC	TT	1946882121
SNP_P4_92310_5900635	NC_021166.1	Ca_kabuli_chr07	5900635	TT	AA	1946882123
SNP_P4_92312_5900839	NC_021166.1	Ca_kabuli_chr07	5900839	CC	TT	1946882125
SNP_P4_92313_5900840	NC_021166.1	Ca_kabuli_chr07	5900840	CC	GG	1946882127
SNP_P4_92314_5900872	NC_021166.1	Ca_kabuli_chr07	5900872	CC	AA	1946882129
SNP_P4_92315_5901006	NC_021166.1	Ca_kabuli_chr07	5901006	TT	CC	1946882131
SNP_P4_92317_5901083	NC_021166.1	Ca_kabuli_chr07	5901083	GG	AA	1946882133
SNP_P4_92319_5901537	NC_021166.1	Ca_kabuli_chr07	5901537	TT	AA	1946882135
SNP_P4_92320_5901743	NC_021166.1	Ca_kabuli_chr07	5901743	AA	CC	1946882137
SNP_P4_92321_5901757	NC_021166.1	Ca_kabuli_chr07	5901757	AA	GG	1946882139
SNP_P4_92322_5901834	NC_021166.1	Ca_kabuli_chr07	5901834	TT	GG	1946882141
SNP_P4_92323_5901919	NC_021166.1	Ca_kabuli_chr07	5901919	GG	AA	1946882143
SNP_P4_92326_5902227	NC_021166.1	Ca_kabuli_chr07	5902227	CC	TT	1946882145
SNP_P4_92327_5902251	NC_021166.1	Ca_kabuli_chr07	5902251	TT	CC	1946882147
SNP_P4_92328_5902289	NC_021166.1	Ca_kabuli_chr07	5902289	TT	CC	1946882149
SNP_P4_92329_5902305	NC_021166.1	Ca_kabuli_chr07	5902305	AA	TT	1946882151
SNP_P4_92330_5902445	NC_021166.1	Ca_kabuli_chr07	5902445	AA	CC	1946882153
SNP_P4_92331_5902676	NC_021166.1	Ca_kabuli_chr07	5902676	AA	TT	1946882155
SNP_P4_92332_5902697	NC_021166.1	Ca_kabuli_chr07	5902697	TT	AA	1946882157
SNP_P4_92333_5902793	NC_021166.1	Ca_kabuli_chr07	5902793	GG	TT	1946882159
SNP_P4_92334_5905612	NC_021166.1	Ca_kabuli_chr07	5905612	GG	AA	1946882161
SNP_P4_92336_5906579	NC_021166.1	Ca_kabuli_chr07	5906579	TT	GG	1946882163
SNP_P4_92337_5907578	NC_021166.1	Ca_kabuli_chr07	5907578	CC	GG	1946882165
SNP_P4_92339_5909050	NC_021166.1	Ca_kabuli_chr07	5909050	GG	AA	1946882166
SNP_P4_92340_5909604	NC_021166.1	Ca_kabuli_chr07	5909604	AA	GG	1946882168
SNP_P4_92341_5909630	NC_021166.1	Ca_kabuli_chr07	5909630	AA	GG	1946882170
SNP_P4_92342_5909650	NC_021166.1	Ca_kabuli_chr07	5909650	CC	GG	1946882172
SNP_P4_92343_5909981	NC_021166.1	Ca_kabuli_chr07	5909981	CC	GG	1946882175
SNP_P4_92344_5910175	NC_021166.1	Ca_kabuli_chr07	5910175	AA	CC	1946882177
SNP_P4_92345_5910358	NC_021166.1	Ca_kabuli_chr07	5910358	TT	GG	1946882179
SNP_P4_92347_5911899	NC_021166.1	Ca_kabuli_chr07	5911899	CC	TT	1946882181
SNP_P4_92348_5911930	NC_021166.1	Ca_kabuli_chr07	5911930	AA	GG	1946882183
SNP_P4_92349_5912780	NC_021166.1	Ca_kabuli_chr07	5912780	GG	AA	1946882185
SNP_P4_92350_5912966	NC_021166.1	Ca_kabuli_chr07	5912966	GG	AA	1946882187
SNP_P4_92351_5912967	NC_021166.1	Ca_kabuli_chr07	5912967	CC	AA	1946882189
SNP_P4_92352_5915822	NC_021166.1	Ca_kabuli_chr07	5915822	AA	CC	1946882191
SNP_P4_92353_5917508	NC_021166.1	Ca_kabuli_chr07	5917508	CC	AA	1946882193

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_92355_5917575	NC_021166.1	Ca_kabuli_chr07	5917575	AA	GG	1946882197
SNP_P4_92356_5917583	NC_021166.1	Ca_kabuli_chr07	5917583	TT	CC	1946882199
SNP_P4_92357_5919487	NC_021166.1	Ca_kabuli_chr07	5919487	AA	GG	1946882201
SNP_P4_92358_5919488	NC_021166.1	Ca_kabuli_chr07	5919488	AA	TT	1946882203
SNP_P4_92359_5919518	NC_021166.1	Ca_kabuli_chr07	5919518	TT	AA	1946882205
SNP_P4_92361_5925751	NC_021166.1	Ca_kabuli_chr07	5925751	TT	CC	1946882207
SNP_P4_92362_5925923	NC_021166.1	Ca_kabuli_chr07	5925923	GG	AA	1946882209
SNP_P4_92363_5925933	NC_021166.1	Ca_kabuli_chr07	5925933	TT	CC	1946882211
SNP_P4_92365_5930778	NC_021166.1	Ca_kabuli_chr07	5930778	TT	AA	1946882213
SNP_P4_92366_5931665	NC_021166.1	Ca_kabuli_chr07	5931665	CC	TT	1946882215
SNP_P4_92367_5931691	NC_021166.1	Ca_kabuli_chr07	5931691	TT	AA	1946882217
SNP_P4_92369_5931761	NC_021166.1	Ca_kabuli_chr07	5931761	AA	CC	1946882219
SNP_P4_92370_5935704	NC_021166.1	Ca_kabuli_chr07	5935704	AA	CC	1946882221
SNP_P4_92371_5935998	NC_021166.1	Ca_kabuli_chr07	5935998	AA	GG	1946882223
SNP_P4_92372_5936000	NC_021166.1	Ca_kabuli_chr07	5936000	GG	TT	1946882225
SNP_P4_92373_5936213	NC_021166.1	Ca_kabuli_chr07	5936213	GG	AA	1946882227
SNP_P4_92375_5936243	NC_021166.1	Ca_kabuli_chr07	5936243	AA	GG	1946882229
SNP_P4_92377_5936328	NC_021166.1	Ca_kabuli_chr07	5936328	TT	CC	1946882231
SNP_P4_92379_5936499	NC_021166.1	Ca_kabuli_chr07	5936499	GG	TT	1946882233
SNP_P4_92381_5936558	NC_021166.1	Ca_kabuli_chr07	5936558	TT	CC	1946882235
SNP_P4_92382_5936587	NC_021166.1	Ca_kabuli_chr07	5936587	TT	CC	1946882237
SNP_P4_92384_5936715	NC_021166.1	Ca_kabuli_chr07	5936715	AA	GG	1946882239
SNP_P4_92386_5936849	NC_021166.1	Ca_kabuli_chr07	5936849	GG	AA	1946882241
SNP_P4_92387_5936918	NC_021166.1	Ca_kabuli_chr07	5936918	AA	GG	1946882243
SNP_P4_92388_5936936	NC_021166.1	Ca_kabuli_chr07	5936936	AA	TT	1946882245
SNP_P4_92389_5936939	NC_021166.1	Ca_kabuli_chr07	5936939	GG	AA	1946882247
SNP_P4_92390_5937022	NC_021166.1	Ca_kabuli_chr07	5937022	GG	AA	1946882249
SNP_P4_92391_5937026	NC_021166.1	Ca_kabuli_chr07	5937026	AA	TT	1946882251
SNP_P4_92392_5937052	NC_021166.1	Ca_kabuli_chr07	5937052	AA	CC	1946882253
SNP_P4_92393_5937073	NC_021166.1	Ca_kabuli_chr07	5937073	CC	TT	1946882255
SNP_P4_92394_5937075	NC_021166.1	Ca_kabuli_chr07	5937075	AA	GG	1946882257
SNP_P4_92395_5937078	NC_021166.1	Ca_kabuli_chr07	5937078	CC	TT	1946882259
SNP_P4_92396_5937134	NC_021166.1	Ca_kabuli_chr07	5937134	TT	CC	1946882261
SNP_P4_92397_5937140	NC_021166.1	Ca_kabuli_chr07	5937140	AA	CC	1946882263
SNP_P4_92398_5937172	NC_021166.1	Ca_kabuli_chr07	5937172	CC	TT	1946882265
SNP_P4_92399_5937314	NC_021166.1	Ca_kabuli_chr07	5937314	AA	GG	1946882267
SNP_P4_92400_5937336	NC_021166.1	Ca_kabuli_chr07	5937336	TT	AA	1946882269
SNP_P4_92401_5937372	NC_021166.1	Ca_kabuli_chr07	5937372	CC	TT	1946882271
SNP_P4_92402_5937430	NC_021166.1	Ca_kabuli_chr07	5937430	CC	TT	1946882273
SNP_P4_92403_5937478	NC_021166.1	Ca_kabuli_chr07	5937478	GG	AA	1946882275
SNP_P4_92404_5937498	NC_021166.1	Ca_kabuli_chr07	5937498	CC	AA	1946882277

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_92407_5937758	NC_021166.1	Ca_kabuli_chr07	5937758	CC	AA	1946882281
SNP_P4_92408_5937761	NC_021166.1	Ca_kabuli_chr07	5937761	TT	CC	1946882283
SNP_P4_92409_5937769	NC_021166.1	Ca_kabuli_chr07	5937769	GG	AA	1946882285
SNP_P4_92410_5937773	NC_021166.1	Ca_kabuli_chr07	5937773	CC	AA	1946882287
SNP_P4_92411_5938005	NC_021166.1	Ca_kabuli_chr07	5938005	TT	CC	1946882289
SNP_P4_92413_5938051	NC_021166.1	Ca_kabuli_chr07	5938051	GG	AA	1946882291
SNP_P4_92414_5938083	NC_021166.1	Ca_kabuli_chr07	5938083	AA	CC	1946882293
SNP_P4_92415_5938091	NC_021166.1	Ca_kabuli_chr07	5938091	AA	CC	1946882295
SNP_P4_92416_5938096	NC_021166.1	Ca_kabuli_chr07	5938096	TT	AA	1946882296
SNP_P4_92417_5938170	NC_021166.1	Ca_kabuli_chr07	5938170	CC	TT	1946882298
SNP_P4_92418_5938600	NC_021166.1	Ca_kabuli_chr07	5938600	AA	GG	1946882300
SNP_P4_92419_5938605	NC_021166.1	Ca_kabuli_chr07	5938605	GG	AA	1946882302
SNP_P4_92420_5942048	NC_021166.1	Ca_kabuli_chr07	5942048	AA	CC	1946882304
SNP_P4_92421_5942080	NC_021166.1	Ca_kabuli_chr07	5942080	CC	AA	1946882306
SNP_P4_92422_5942139	NC_021166.1	Ca_kabuli_chr07	5942139	TT	AA	1946882308
SNP_P4_92423_5942361	NC_021166.1	Ca_kabuli_chr07	5942361	TT	CC	1946882310
SNP_P4_92424_5942418	NC_021166.1	Ca_kabuli_chr07	5942418	TT	CC	1946882312
SNP_P4_92425_5945024	NC_021166.1	Ca_kabuli_chr07	5945024	TT	GG	1946882314
SNP_P4_92426_5945169	NC_021166.1	Ca_kabuli_chr07	5945169	GG	CC	1946882316
SNP_P4_92428_5945649	NC_021166.1	Ca_kabuli_chr07	5945649	TT	CC	1946882318
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SNP_P4_92432_5951029	NC_021166.1	Ca_kabuli_chr07	5951029	CC	TT	1946882322
SNP_P4_92434_5953828	NC_021166.1	Ca_kabuli_chr07	5953828	TT	GG	1946882324
SNP_P4_92435_5954778	NC_021166.1	Ca_kabuli_chr07	5954778	AA	GG	1946882326
SNP_P4_92436_5955090	NC_021166.1	Ca_kabuli_chr07	5955090	AA	GG	1946882328
SNP_P4_92437_5955414	NC_021166.1	Ca_kabuli_chr07	5955414	GG	AA	1946882330
SNP_P4_92439_5956317	NC_021166.1	Ca_kabuli_chr07	5956317	CC	GG	1946882332
SNP_P4_92440_5956696	NC_021166.1	Ca_kabuli_chr07	5956696	AA	GG	1946882334
SNP_P4_92441_5956993	NC_021166.1	Ca_kabuli_chr07	5956993	GG	AA	1946882336
SNP_P4_92442_5957379	NC_021166.1	Ca_kabuli_chr07	5957379	GG	AA	1946882338
SNP_P4_92443_5958073	NC_021166.1	Ca_kabuli_chr07	5958073	GG	AA	1946882340
SNP_P4_92444_5958840	NC_021166.1	Ca_kabuli_chr07	5958840	TT	CC	1946882342
SNP_P4_92445_5960035	NC_021166.1	Ca_kabuli_chr07	5960035	CC	AA	1946882344
SNP_P4_92446_5960041	NC_021166.1	Ca_kabuli_chr07	5960041	CC	TT	1946882346
SNP_P4_92447_5960334	NC_021166.1	Ca_kabuli_chr07	5960334	AA	GG	1946882348
SNP_P4_92448_5960368	NC_021166.1	Ca_kabuli_chr07	5960368	CC	TT	1946882350
SNP_P4_92449_5960379	NC_021166.1	Ca_kabuli_chr07	5960379	CC	TT	1946882352
SNP_P4_92450_5976087	NC_021166.1	Ca_kabuli_chr07	5976087	AA	TT	1946882354
SNP_P4_92451_5976864	NC_021166.1	Ca_kabuli_chr07	5976864	AA	GG	1946882356
SNP_P4_92452_5977296	NC_021166.1	Ca_kabuli_chr07	5977296	AA	GG	1946882358
SNP_P4_92453_5977316	NC_021166.1	Ca_kabuli_chr07	5977316	CC	TT	1946882360

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_92456_5979273	NC_021166.1	Ca_kabuli_chr07	5979273	CC	AA	1946882364
SNP_P4_92458_5980168	NC_021166.1	Ca_kabuli_chr07	5980168	AA	CC	1946882366
SNP_P4_92459_5980178	NC_021166.1	Ca_kabuli_chr07	5980178	TT	CC	1946882368
SNP_P4_92460_5980482	NC_021166.1	Ca_kabuli_chr07	5980482	CC	AA	1946882370
SNP_P4_92461_5982481	NC_021166.1	Ca_kabuli_chr07	5982481	AA	GG	1946882372
SNP_P4_92463_5983847	NC_021166.1	Ca_kabuli_chr07	5983847	GG	AA	1946882374
SNP_P4_92464_5984079	NC_021166.1	Ca_kabuli_chr07	5984079	AA	GG	1946882377
SNP_P4_92465_5985437	NC_021166.1	Ca_kabuli_chr07	5985437	AA	GG	1946882379
SNP_P4_92466_5987333	NC_021166.1	Ca_kabuli_chr07	5987333	TT	GG	1946882381
SNP_P4_92467_5987366	NC_021166.1	Ca_kabuli_chr07	5987366	TT	AA	1946882383
SNP_P4_92468_5987430	NC_021166.1	Ca_kabuli_chr07	5987430	AA	GG	1946882385
SNP_P4_92469_5988875	NC_021166.1	Ca_kabuli_chr07	5988875	GG	CC	1946882387
SNP_P4_92470_5989143	NC_021166.1	Ca_kabuli_chr07	5989143	CC	TT	1946882389
SNP_P4_92473_5990995	NC_021166.1	Ca_kabuli_chr07	5990995	CC	TT	1946882391
SNP_P4_92474_5991110	NC_021166.1	Ca_kabuli_chr07	5991110	AA	GG	1946882393
SNP_P4_92477_5994279	NC_021166.1	Ca_kabuli_chr07	5994279	GG	AA	1946882395
SNP_P4_92478_5995646	NC_021166.1	Ca_kabuli_chr07	5995646	TT	GG	1946882397
SNP_P4_92479_5996051	NC_021166.1	Ca_kabuli_chr07	5996051	CC	TT	1946882399
SNP_P4_92480_5996156	NC_021166.1	Ca_kabuli_chr07	5996156	CC	TT	1946882401
SNP_P4_92482_5996437	NC_021166.1	Ca_kabuli_chr07	5996437	AA	GG	1946882403
SNP_P4_92483_5996648	NC_021166.1	Ca_kabuli_chr07	5996648	CC	GG	1946882405
SNP_P4_92484_5998419	NC_021166.1	Ca_kabuli_chr07	5998419	CC	AA	1946882407
SNP_P4_92485_5998659	NC_021166.1	Ca_kabuli_chr07	5998659	AA	GG	1946882409
SNP_P4_92486_5998673	NC_021166.1	Ca_kabuli_chr07	5998673	TT	CC	1946882411
SNP_P4_92487_5998726	NC_021166.1	Ca_kabuli_chr07	5998726	TT	CC	1946882413
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SNP_P4_92492_6002185	NC_021166.1	Ca_kabuli_chr07	6002185	AA	TT	1946882421
SNP_P4_92493_6002624	NC_021166.1	Ca_kabuli_chr07	6002624	CC	GG	1946882423
SNP_P4_92494_6002656	NC_021166.1	Ca_kabuli_chr07	6002656	AA	GG	1946882425
SNP_P4_92495_6002657	NC_021166.1	Ca_kabuli_chr07	6002657	GG	AA	1946882427
SNP_P4_92496_6002690	NC_021166.1	Ca_kabuli_chr07	6002690	CC	TT	1946882429
SNP_P4_92498_6002893	NC_021166.1	Ca_kabuli_chr07	6002893	TT	CC	1946882431
SNP_P4_92499_6003000	NC_021166.1	Ca_kabuli_chr07	6003000	TT	AA	1946882433
SNP_P4_92500_6005516	NC_021166.1	Ca_kabuli_chr07	6005516	CC	TT	1946882435
SNP_P4_92501_6005526	NC_021166.1	Ca_kabuli_chr07	6005526	CC	AA	1946882437
SNP_P4_92504_6006398	NC_021166.1	Ca_kabuli_chr07	6006398	TT	CC	1946882439
SNP_P4_92505_6006890	NC_021166.1	Ca_kabuli_chr07	6006890	AA	CC	1946882441
SNP_P4_92506_6007237	NC_021166.1	Ca_kabuli_chr07	6007237	TT	CC	1946882443
SNP_P4_92508_6008953	NC_021166.1	Ca_kabuli_chr07	6008953	CC	AA	1946882445

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_92510_6009876	NC_021166.1	Ca_kabuli_chr07	6009876	GG	AA	1946882449
SNP_P4_92512_6010207	NC_021166.1	Ca_kabuli_chr07	6010207	GG	AA	1946882451
SNP_P4_92513_6010209	NC_021166.1	Ca_kabuli_chr07	6010209	GG	AA	1946882453
SNP_P4_92514_6013221	NC_021166.1	Ca_kabuli_chr07	6013221	GG	AA	1946882455
SNP_P4_92515_6013585	NC_021166.1	Ca_kabuli_chr07	6013585	CC	TT	1946882457
SNP_P4_92517_6013927	NC_021166.1	Ca_kabuli_chr07	6013927	TT	GG	1946882459
SNP_P4_92518_6013975	NC_021166.1	Ca_kabuli_chr07	6013975	GG	TT	1946882461
SNP_P4_92519_6013983	NC_021166.1	Ca_kabuli_chr07	6013983	TT	CC	1946882463
SNP_P4_92520_6014015	NC_021166.1	Ca_kabuli_chr07	6014015	TT	AA	1946882465
SNP_P4_92522_6014520	NC_021166.1	Ca_kabuli_chr07	6014520	GG	AA	1946882467
SNP_P4_92523_6014529	NC_021166.1	Ca_kabuli_chr07	6014529	GG	AA	1946882469
SNP_P4_92526_6015214	NC_021166.1	Ca_kabuli_chr07	6015214	GG	AA	1946882471
SNP_P4_92527_6015245	NC_021166.1	Ca_kabuli_chr07	6015245	GG	AA	1946882473
SNP_P4_92528_6015281	NC_021166.1	Ca_kabuli_chr07	6015281	CC	TT	1946882475
SNP_P4_92529_6015478	NC_021166.1	Ca_kabuli_chr07	6015478	CC	TT	1946882477
SNP_P4_92530_6015503	NC_021166.1	Ca_kabuli_chr07	6015503	CC	TT	1946882479
SNP_P4_92532_6015737	NC_021166.1	Ca_kabuli_chr07	6015737	AA	GG	1946882481
SNP_P4_92533_6016908	NC_021166.1	Ca_kabuli_chr07	6016908	TT	AA	1946882483
SNP_P4_92534_6016909	NC_021166.1	Ca_kabuli_chr07	6016909	GG	AA	1946882485
SNP_P4_92535_6017113	NC_021166.1	Ca_kabuli_chr07	6017113	TT	CC	1946882487
SNP_P4_92536_6017123	NC_021166.1	Ca_kabuli_chr07	6017123	TT	CC	1946882490
SNP_P4_92537_6017165	NC_021166.1	Ca_kabuli_chr07	6017165	GG	AA	1946882492
SNP_P4_92539_6017201	NC_021166.1	Ca_kabuli_chr07	6017201	AA	GG	1946882494
SNP_P4_92540_6017213	NC_021166.1	Ca_kabuli_chr07	6017213	TT	AA	1946882496
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SNP_P4_92543_6018348	NC_021166.1	Ca_kabuli_chr07	6018348	GG	AA	1946882502
SNP_P4_92544_6018372	NC_021166.1	Ca_kabuli_chr07	6018372	TT	GG	1946882504
SNP_P4_92546_6018387	NC_021166.1	Ca_kabuli_chr07	6018387	CC	TT	1946882506
SNP_P4_92547_6018745	NC_021166.1	Ca_kabuli_chr07	6018745	AA	CC	1946882508
SNP_P4_92548_6019281	NC_021166.1	Ca_kabuli_chr07	6019281	GG	CC	1946882510
SNP_P4_92549_6019957	NC_021166.1	Ca_kabuli_chr07	6019957	CC	TT	1946882512
SNP_P4_92551_6020361	NC_021166.1	Ca_kabuli_chr07	6020361	CC	GG	1946882514
SNP_P4_92553_6020452	NC_021166.1	Ca_kabuli_chr07	6020452	AA	GG	1946882516
SNP_P4_92554_6020512	NC_021166.1	Ca_kabuli_chr07	6020512	GG	CC	1946882518
SNP_P4_92555_6020519	NC_021166.1	Ca_kabuli_chr07	6020519	GG	CC	1946882520
SNP_P4_92556_6020529	NC_021166.1	Ca_kabuli_chr07	6020529	GG	AA	1946882522
SNP_P4_92557_6020533	NC_021166.1	Ca_kabuli_chr07	6020533	GG	AA	1946882524
SNP_P4_92558_6020546	NC_021166.1	Ca_kabuli_chr07	6020546	CC	TT	1946882526
SNP_P4_92559_6020598	NC_021166.1	Ca_kabuli_chr07	6020598	CC	AA	1946882528
SNP_P4_92560_6020601	NC_021166.1	Ca_kabuli_chr07	6020601	GG	AA	1946882530

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_92562_6021886	NC_021166.1	Ca_kabuli_chr07	6021886	AA	TT	1946882534
SNP_P4_92563_6021944	NC_021166.1	Ca_kabuli_chr07	6021944	TT	CC	1946882536
SNP_P4_92564_6021946	NC_021166.1	Ca_kabuli_chr07	6021946	AA	GG	1946882538
SNP_P4_92565_6022262	NC_021166.1	Ca_kabuli_chr07	6022262	GG	AA	1946882540
SNP_P4_92566_6022282	NC_021166.1	Ca_kabuli_chr07	6022282	TT	CC	1946882542
SNP_P4_92567_6022329	NC_021166.1	Ca_kabuli_chr07	6022329	TT	GG	1946882544
SNP_P4_92568_6023001	NC_021166.1	Ca_kabuli_chr07	6023001	AA	TT	1946882546
SNP_P4_92569_6023470	NC_021166.1	Ca_kabuli_chr07	6023470	AA	GG	1946882548
SNP_P4_92570_6023569	NC_021166.1	Ca_kabuli_chr07	6023569	GG	AA	1946882550
SNP_P4_92571_6024476	NC_021166.1	Ca_kabuli_chr07	6024476	TT	CC	1946882552
SNP_P4_92572_6024519	NC_021166.1	Ca_kabuli_chr07	6024519	TT	CC	1946882554
SNP_P4_92573_6024522	NC_021166.1	Ca_kabuli_chr07	6024522	TT	GG	1946882556
SNP_P4_92574_6024772	NC_021166.1	Ca_kabuli_chr07	6024772	AA	TT	1946882558
SNP_P4_92576_6024821	NC_021166.1	Ca_kabuli_chr07	6024821	AA	GG	1946882560
SNP_P4_92577_6024858	NC_021166.1	Ca_kabuli_chr07	6024858	AA	TT	1946882562
SNP_P4_92578_6024863	NC_021166.1	Ca_kabuli_chr07	6024863	GG	AA	1946882564
SNP_P4_92579_6024890	NC_021166.1	Ca_kabuli_chr07	6024890	TT	CC	1946882566
SNP_P4_92580_6024972	NC_021166.1	Ca_kabuli_chr07	6024972	TT	GG	1946882568
SNP_P4_92581_6024976	NC_021166.1	Ca_kabuli_chr07	6024976	AA	CC	1946882570
SNP_P4_92582_6025008	NC_021166.1	Ca_kabuli_chr07	6025008	CC	TT	1946882572
SNP_P4_92583_6025012	NC_021166.1	Ca_kabuli_chr07	6025012	CC	TT	1946882574
SNP_P4_92584_6025131	NC_021166.1	Ca_kabuli_chr07	6025131	CC	TT	1946882576
SNP_P4_92586_6025561	NC_021166.1	Ca_kabuli_chr07	6025561	AA	CC	1946882578
SNP_P4_92587_6025722	NC_021166.1	Ca_kabuli_chr07	6025722	TT	GG	1946882580
SNP_P4_92588_6028640	NC_021166.1	Ca_kabuli_chr07	6028640	CC	AA	1946882581
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SNP_P4_92590_6031080	NC_021166.1	Ca_kabuli_chr07	6031080	AA	GG	1946882585
SNP_P4_92591_6031181	NC_021166.1	Ca_kabuli_chr07	6031181	GG	TT	1946882587
SNP_P4_92592_6031187	NC_021166.1	Ca_kabuli_chr07	6031187	GG	TT	1946882589
SNP_P4_92593_6031301	NC_021166.1	Ca_kabuli_chr07	6031301	TT	CC	1946882591
SNP_P4_92594_6032180	NC_021166.1	Ca_kabuli_chr07	6032180	GG	AA	1946882593
SNP_P4_92595_6032204	NC_021166.1	Ca_kabuli_chr07	6032204	GG	AA	1946882595
SNP_P4_92596_6032242	NC_021166.1	Ca_kabuli_chr07	6032242	TT	AA	1946882597
SNP_P4_92597_6032247	NC_021166.1	Ca_kabuli_chr07	6032247	AA	GG	1946882599
SNP_P4_92598_6032252	NC_021166.1	Ca_kabuli_chr07	6032252	TT	CC	1946882601
SNP_P4_92599_6032264	NC_021166.1	Ca_kabuli_chr07	6032264	CC	TT	1946882603
SNP_P4_92600_6032267	NC_021166.1	Ca_kabuli_chr07	6032267	TT	CC	1946882605
SNP_P4_92601_6032354	NC_021166.1	Ca_kabuli_chr07	6032354	TT	AA	1946882607
SNP_P4_92602_6032395	NC_021166.1	Ca_kabuli_chr07	6032395	TT	CC	1946882609
SNP_P4_92603_6032483	NC_021166.1	Ca_kabuli_chr07	6032483	CC	AA	1946882611
SNP_P4_92604_6032825	NC_021166.1	Ca_kabuli_chr07	6032825	TT	CC	1946882613

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_92607_6032922	NC_021166.1	Ca_kabuli_chr07	6032922	CC	TT	1946882619
SNP_P4_92608_6032935	NC_021166.1	Ca_kabuli_chr07	6032935	TT	CC	1946882621
SNP_P4_92609_6032966	NC_021166.1	Ca_kabuli_chr07	6032966	GG	CC	1946882623
SNP_P4_92612_6033145	NC_021166.1	Ca_kabuli_chr07	6033145	GG	CC	1946882625
SNP_P4_92613_6033464	NC_021166.1	Ca_kabuli_chr07	6033464	TT	CC	1946882627
SNP_P4_92614_6033480	NC_021166.1	Ca_kabuli_chr07	6033480	GG	AA	1946882629
SNP_P4_92615_6033511	NC_021166.1	Ca_kabuli_chr07	6033511	TT	CC	1946882631
SNP_P4_92616_6033983	NC_021166.1	Ca_kabuli_chr07	6033983	TT	CC	1946882633
SNP_P4_92617_6034093	NC_021166.1	Ca_kabuli_chr07	6034093	CC	TT	1946882635
SNP_P4_92619_6036561	NC_021166.1	Ca_kabuli_chr07	6036561	AA	GG	1946882637
SNP_P4_92620_6036935	NC_021166.1	Ca_kabuli_chr07	6036935	CC	AA	1946882639
SNP_P4_92621_6037043	NC_021166.1	Ca_kabuli_chr07	6037043	GG	AA	1946882641
SNP_P4_92623_6037332	NC_021166.1	Ca_kabuli_chr07	6037332	TT	AA	1946882643
SNP_P4_92624_6037444	NC_021166.1	Ca_kabuli_chr07	6037444	TT	AA	1946882645
SNP_P4_92625_6037478	NC_021166.1	Ca_kabuli_chr07	6037478	AA	GG	1946882647
SNP_P4_92626_6037488	NC_021166.1	Ca_kabuli_chr07	6037488	CC	TT	1946882649
SNP_P4_92627_6037589	NC_021166.1	Ca_kabuli_chr07	6037589	CC	TT	1946882651
SNP_P4_92628_6037614	NC_021166.1	Ca_kabuli_chr07	6037614	TT	CC	1946882653
SNP_P4_92629_6038010	NC_021166.1	Ca_kabuli_chr07	6038010	TT	CC	1946882655
SNP_P4_92631_6040981	NC_021166.1	Ca_kabuli_chr07	6040981	TT	CC	1946882657
SNP_P4_92632_6041193	NC_021166.1	Ca_kabuli_chr07	6041193	AA	CC	1946882658
SNP_P4_92633_6041323	NC_021166.1	Ca_kabuli_chr07	6041323	TT	CC	1946882660
SNP_P4_92634_6041338	NC_021166.1	Ca_kabuli_chr07	6041338	AA	TT	1946882662
SNP_P4_92635_6043825	NC_021166.1	Ca_kabuli_chr07	6043825	GG	AA	1946882664
SNP_P4_92636_6044848	NC_021166.1	Ca_kabuli_chr07	6044848	CC	TT	1946882666
SNP_P4_92637_6044884	NC_021166.1	Ca_kabuli_chr07	6044884	AA	CC	1946882668
SNP_P4_92638_6044897	NC_021166.1	Ca_kabuli_chr07	6044897	TT	AA	1946882670
SNP_P4_92640_6046608	NC_021166.1	Ca_kabuli_chr07	6046608	CC	TT	1946882672
SNP_P4_92641_6046625	NC_021166.1	Ca_kabuli_chr07	6046625	AA	GG	1946882674
SNP_P4_92644_6049406	NC_021166.1	Ca_kabuli_chr07	6049406	TT	CC	1946882676
SNP_P4_92645_6049734	NC_021166.1	Ca_kabuli_chr07	6049734	AA	GG	1946882678
SNP_P4_92646_6049759	NC_021166.1	Ca_kabuli_chr07	6049759	TT	CC	1946882679
SNP_P4_92647_6049792	NC_021166.1	Ca_kabuli_chr07	6049792	AA	CC	1946882681
SNP_P4_92650_6050107	NC_021166.1	Ca_kabuli_chr07	6050107	CC	GG	1946882683
SNP_P4_92651_6050159	NC_021166.1	Ca_kabuli_chr07	6050159	TT	CC	1946882685
SNP_P4_92652_6052295	NC_021166.1	Ca_kabuli_chr07	6052295	AA	GG	1946882687
SNP_P4_92653_6052585	NC_021166.1	Ca_kabuli_chr07	6052585	GG	CC	1946882689
SNP_P4_92655_6053844	NC_021166.1	Ca_kabuli_chr07	6053844	AA	GG	1946882691
SNP_P4_92656_6053858	NC_021166.1	Ca_kabuli_chr07	6053858	TT	CC	1946882693
SNP_P4_92657_6054081	NC_021166.1	Ca_kabuli_chr07	6054081	CC	TT	1946882695

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_92661_6055723	NC_021166.1	Ca_kabuli_chr07	6055723	AA	GG	1946882699
SNP_P4_92662_6055798	NC_021166.1	Ca_kabuli_chr07	6055798	CC	TT	1946882701
SNP_P4_92663_6055994	NC_021166.1	Ca_kabuli_chr07	6055994	GG	AA	1946882703
SNP_P4_92664_6056040	NC_021166.1	Ca_kabuli_chr07	6056040	AA	TT	1946882704
SNP_P4_92665_6056088	NC_021166.1	Ca_kabuli_chr07	6056088	AA	GG	1946882706
SNP_P4_92666_6056134	NC_021166.1	Ca_kabuli_chr07	6056134	TT	CC	1946882708
SNP_P4_92667_6056181	NC_021166.1	Ca_kabuli_chr07	6056181	AA	TT	1946882710
SNP_P4_92668_6056492	NC_021166.1	Ca_kabuli_chr07	6056492	GG	AA	1946882712
SNP_P4_92669_6056508	NC_021166.1	Ca_kabuli_chr07	6056508	CC	TT	1946882714
SNP_P4_92670_6057001	NC_021166.1	Ca_kabuli_chr07	6057001	TT	GG	1946882716
SNP_P4_92671_6057243	NC_021166.1	Ca_kabuli_chr07	6057243	CC	TT	1946882718
SNP_P4_92673_6057445	NC_021166.1	Ca_kabuli_chr07	6057445	AA	CC	1946882720
SNP_P4_92674_6057678	NC_021166.1	Ca_kabuli_chr07	6057678	CC	TT	1946882722
SNP_P4_92675_6058973	NC_021166.1	Ca_kabuli_chr07	6058973	GG	AA	1946882724
SNP_P4_92676_6059002	NC_021166.1	Ca_kabuli_chr07	6059002	CC	GG	1946882726
SNP_P4_92677_6059274	NC_021166.1	Ca_kabuli_chr07	6059274	AA	GG	1946882728
SNP_P4_92678_6060518	NC_021166.1	Ca_kabuli_chr07	6060518	TT	CC	1946882730
SNP_P4_92679_6061068	NC_021166.1	Ca_kabuli_chr07	6061068	GG	AA	1946882732
SNP_P4_92680_6061115	NC_021166.1	Ca_kabuli_chr07	6061115	AA	TT	1946882733
SNP_P4_92681_6061126	NC_021166.1	Ca_kabuli_chr07	6061126	TT	CC	1946882735
SNP_P4_92682_6062912	NC_021166.1	Ca_kabuli_chr07	6062912	TT	GG	1946882737
SNP_P4_92683_6063503	NC_021166.1	Ca_kabuli_chr07	6063503	CC	TT	1946882739
SNP_P4_92685_6063819	NC_021166.1	Ca_kabuli_chr07	6063819	GG	AA	1946882741
SNP_P4_92686_6065043	NC_021166.1	Ca_kabuli_chr07	6065043	AA	CC	1946882743
SNP_P4_92687_6065092	NC_021166.1	Ca_kabuli_chr07	6065092	AA	GG	1946882745
SNP_P4_92691_6065915	NC_021166.1	Ca_kabuli_chr07	6065915	TT	CC	1946882747
SNP_P4_92692_6069748	NC_021166.1	Ca_kabuli_chr07	6069748	TT	GG	1946882749
SNP_P4_92694_6071113	NC_021166.1	Ca_kabuli_chr07	6071113	CC	AA	1946882751
SNP_P4_92695_6078557	NC_021166.1	Ca_kabuli_chr07	6078557	GG	AA	1946882753
SNP_P4_92696_6078587	NC_021166.1	Ca_kabuli_chr07	6078587	CC	TT	1946882755
SNP_P4_92697_6078622	NC_021166.1	Ca_kabuli_chr07	6078622	AA	GG	1946882757
SNP_P4_92698_6078701	NC_021166.1	Ca_kabuli_chr07	6078701	GG	AA	1946882759
SNP_P4_92699_6078853	NC_021166.1	Ca_kabuli_chr07	6078853	AA	GG	1946882761
SNP_P4_92700_6078863	NC_021166.1	Ca_kabuli_chr07	6078863	CC	AA	1946882763
SNP_P4_92701_6078868	NC_021166.1	Ca_kabuli_chr07	6078868	TT	CC	1946882765
SNP_P4_92702_6079444	NC_021166.1	Ca_kabuli_chr07	6079444	GG	AA	1946882766
SNP_P4_92704_6080876	NC_021166.1	Ca_kabuli_chr07	6080876	TT	AA	1946882768
SNP_P4_92706_6081504	NC_021166.1	Ca_kabuli_chr07	6081504	GG	AA	1946882770
SNP_P4_92707_6082783	NC_021166.1	Ca_kabuli_chr07	6082783	GG	AA	1946882772
SNP_P4_92709_6083237	NC_021166.1	Ca_kabuli_chr07	6083237	AA	CC	1946882774
SNP_P4_92710_6083571	NC_021166.1	Ca_kabuli_chr07	6083571	AA	CC	1946882776

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_92714_6084082	NC_021166.1	Ca_kabuli_chr07	6084082	GG	AA	1946882782
SNP_P4_92715_6084091	NC_021166.1	Ca_kabuli_chr07	6084091	TT	GG	1946882783
SNP_P4_92716_6084491	NC_021166.1	Ca_kabuli_chr07	6084491	AA	CC	1946882785
SNP_P4_92717_6084508	NC_021166.1	Ca_kabuli_chr07	6084508	GG	TT	1946882787
SNP_P4_92718_6086003	NC_021166.1	Ca_kabuli_chr07	6086003	AA	GG	1946882789
SNP_P4_92719_6086188	NC_021166.1	Ca_kabuli_chr07	6086188	AA	CC	1946882791
SNP_P4_92720_6086195	NC_021166.1	Ca_kabuli_chr07	6086195	TT	CC	1946882793
SNP_P4_92722_6087573	NC_021166.1	Ca_kabuli_chr07	6087573	AA	GG	1946882795
SNP_P4_92723_6087609	NC_021166.1	Ca_kabuli_chr07	6087609	GG	AA	1946882797
SNP_P4_92724_6087631	NC_021166.1	Ca_kabuli_chr07	6087631	TT	CC	1946882799
SNP_P4_92726_6087845	NC_021166.1	Ca_kabuli_chr07	6087845	AA	GG	1946882801
SNP_P4_92727_6087889	NC_021166.1	Ca_kabuli_chr07	6087889	CC	AA	1946882803
SNP_P4_92728_6088237	NC_021166.1	Ca_kabuli_chr07	6088237	TT	CC	1946882805
SNP_P4_92729_6088477	NC_021166.1	Ca_kabuli_chr07	6088477	AA	CC	1946882807
SNP_P4_92732_6089284	NC_021166.1	Ca_kabuli_chr07	6089284	CC	TT	1946882809
SNP_P4_92735_6089466	NC_021166.1	Ca_kabuli_chr07	6089466	TT	AA	1946882810
SNP_P4_92737_6090652	NC_021166.1	Ca_kabuli_chr07	6090652	AA	CC	1946882812
SNP_P4_92738_6090653	NC_021166.1	Ca_kabuli_chr07	6090653	GG	TT	1946882814
SNP_P4_92739_6090655	NC_021166.1	Ca_kabuli_chr07	6090655	CC	TT	1946882816
SNP_P4_92740_6090682	NC_021166.1	Ca_kabuli_chr07	6090682	TT	CC	1946882818
SNP_P4_92741_6090684	NC_021166.1	Ca_kabuli_chr07	6090684	GG	AA	1946882819
SNP_P4_92742_6091239	NC_021166.1	Ca_kabuli_chr07	6091239	TT	AA	1946882820
SNP_P4_92743_6091301	NC_021166.1	Ca_kabuli_chr07	6091301	AA	GG	1946882821
SNP_P4_92744_6091312	NC_021166.1	Ca_kabuli_chr07	6091312	GG	AA	1946882822
SNP_P4_92745_6091431	NC_021166.1	Ca_kabuli_chr07	6091431	GG	AA	1946882824
SNP_P4_92746_6091474	NC_021166.1	Ca_kabuli_chr07	6091474	TT	CC	1946882826
SNP_P4_92747_6091475	NC_021166.1	Ca_kabuli_chr07	6091475	AA	GG	1946882828
SNP_P4_92748_6091476	NC_021166.1	Ca_kabuli_chr07	6091476	GG	AA	1946882830
SNP_P4_92749_6091529	NC_021166.1	Ca_kabuli_chr07	6091529	CC	TT	1946882832
SNP_P4_92750_6091578	NC_021166.1	Ca_kabuli_chr07	6091578	GG	TT	1946882834
SNP_P4_92751_6091782	NC_021166.1	Ca_kabuli_chr07	6091782	TT	CC	1946882836
SNP_P4_92752_6091808	NC_021166.1	Ca_kabuli_chr07	6091808	TT	CC	1946882838
SNP_P4_92753_6091824	NC_021166.1	Ca_kabuli_chr07	6091824	TT	CC	1946882840
SNP_P4_92754_6091827	NC_021166.1	Ca_kabuli_chr07	6091827	AA	TT	1946882842
SNP_P4_92755_6091848	NC_021166.1	Ca_kabuli_chr07	6091848	AA	TT	1946882843
SNP_P4_92756_6091849	NC_021166.1	Ca_kabuli_chr07	6091849	TT	GG	1946882845
SNP_P4_92757_6091878	NC_021166.1	Ca_kabuli_chr07	6091878	AA	GG	1946882847
SNP_P4_92758_6091967	NC_021166.1	Ca_kabuli_chr07	6091967	CC	TT	1946882849
SNP_P4_92759_6091994	NC_021166.1	Ca_kabuli_chr07	6091994	CC	TT	1946882851
SNP_P4_92760_6092006	NC_021166.1	Ca_kabuli_chr07	6092006	AA	GG	1946882853

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_92762_6092161	NC_021166.1	Ca_kabuli_chr07	6092161	CC	AA	1946882857
SNP_P4_92763_6092185	NC_021166.1	Ca_kabuli_chr07	6092185	TT	GG	1946882859
SNP_P4_92764_6094024	NC_021166.1	Ca_kabuli_chr07	6094024	CC	TT	1946882863
SNP_P4_92765_6094060	NC_021166.1	Ca_kabuli_chr07	6094060	AA	GG	1946882865
SNP_P4_92766_6094070	NC_021166.1	Ca_kabuli_chr07	6094070	AA	GG	1946882867
SNP_P4_92767_6094075	NC_021166.1	Ca_kabuli_chr07	6094075	TT	GG	1946882869
SNP_P4_92768_6094346	NC_021166.1	Ca_kabuli_chr07	6094346	CC	TT	1946882871
SNP_P4_92769_6094385	NC_021166.1	Ca_kabuli_chr07	6094385	TT	CC	1946882873
SNP_P4_92770_6094655	NC_021166.1	Ca_kabuli_chr07	6094655	GG	AA	1946882875
SNP_P4_92772_6094937	NC_021166.1	Ca_kabuli_chr07	6094937	CC	TT	1946882877
SNP_P4_92773_6094975	NC_021166.1	Ca_kabuli_chr07	6094975	AA	CC	1946882879
SNP_P4_92774_6095200	NC_021166.1	Ca_kabuli_chr07	6095200	AA	GG	1946882881
SNP_P4_92775_6095283	NC_021166.1	Ca_kabuli_chr07	6095283	AA	CC	1946882883
SNP_P4_92776_6095545	NC_021166.1	Ca_kabuli_chr07	6095545	TT	GG	1946882885
SNP_P4_92777_6096047	NC_021166.1	Ca_kabuli_chr07	6096047	TT	AA	1946882887
SNP_P4_92778_6097281	NC_021166.1	Ca_kabuli_chr07	6097281	TT	CC	1946882889
SNP_P4_92779_6098192	NC_021166.1	Ca_kabuli_chr07	6098192	AA	GG	1946882891
SNP_P4_92780_6100928	NC_021166.1	Ca_kabuli_chr07	6100928	TT	CC	1946882893
SNP_P4_92781_6100931	NC_021166.1	Ca_kabuli_chr07	6100931	TT	CC	1946882895
SNP_P4_92782_6100946	NC_021166.1	Ca_kabuli_chr07	6100946	TT	CC	1946882897
SNP_P4_92784_6101449	NC_021166.1	Ca_kabuli_chr07	6101449	TT	CC	1946882899
SNP_P4_92785_6101484	NC_021166.1	Ca_kabuli_chr07	6101484	GG	AA	1946882901
SNP_P4_92786_6102124	NC_021166.1	Ca_kabuli_chr07	6102124	GG	AA	1946882903
SNP_P4_92787_6102134	NC_021166.1	Ca_kabuli_chr07	6102134	TT	CC	1946882905
SNP_P4_92788_6102140	NC_021166.1	Ca_kabuli_chr07	6102140	AA	TT	1946882907
SNP_P4_92789_6102142	NC_021166.1	Ca_kabuli_chr07	6102142	CC	TT	1946882909
SNP_P4_92790_6102143	NC_021166.1	Ca_kabuli_chr07	6102143	GG	CC	1946882911
SNP_P4_92791_6102160	NC_021166.1	Ca_kabuli_chr07	6102160	CC	TT	1946882913
SNP_P4_92792_6102168	NC_021166.1	Ca_kabuli_chr07	6102168	TT	GG	1946882915
SNP_P4_92794_6102408	NC_021166.1	Ca_kabuli_chr07	6102408	GG	AA	1946882917
SNP_P4_92795_6102437	NC_021166.1	Ca_kabuli_chr07	6102437	TT	CC	1946882919
SNP_P4_92798_6102513	NC_021166.1	Ca_kabuli_chr07	6102513	CC	TT	1946882921
SNP_P4_92799_6102872	NC_021166.1	Ca_kabuli_chr07	6102872	TT	CC	1946882923
SNP_P4_92800_6102876	NC_021166.1	Ca_kabuli_chr07	6102876	TT	GG	1946882925
SNP_P4_92801_6102898	NC_021166.1	Ca_kabuli_chr07	6102898	GG	TT	1946882927
SNP_P4_92802_6102902	NC_021166.1	Ca_kabuli_chr07	6102902	AA	CC	1946882929
SNP_P4_92803_6102915	NC_021166.1	Ca_kabuli_chr07	6102915	GG	AA	1946882931
SNP_P4_92804_6103154	NC_021166.1	Ca_kabuli_chr07	6103154	TT	AA	1946882933
SNP_P4_92805_6103158	NC_021166.1	Ca_kabuli_chr07	6103158	AA	TT	1946882935
SNP_P4_92806_6103159	NC_021166.1	Ca_kabuli_chr07	6103159	AA	TT	1946882937
SNP_P4_92807_6103160	NC_021166.1	Ca_kabuli_chr07	6103160	AA	TT	1946882939

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_92810_6104304	NC_021166.1	Ca_kabuli_chr07	6104304	GG	AA	1946882943
SNP_P4_92811_6104509	NC_021166.1	Ca_kabuli_chr07	6104509	GG	AA	1946882945
SNP_P4_92812_6104715	NC_021166.1	Ca_kabuli_chr07	6104715	CC	AA	1946882947
SNP_P4_92813_6104741	NC_021166.1	Ca_kabuli_chr07	6104741	GG	TT	1946882949
SNP_P4_92814_6106043	NC_021166.1	Ca_kabuli_chr07	6106043	AA	TT	1946882951
SNP_P4_92815_6106546	NC_021166.1	Ca_kabuli_chr07	6106546	AA	GG	1946882953
SNP_P4_92816_6106561	NC_021166.1	Ca_kabuli_chr07	6106561	GG	AA	1946882955
SNP_P4_92817_6106580	NC_021166.1	Ca_kabuli_chr07	6106580	GG	AA	1946882957
SNP_P4_92818_6106610	NC_021166.1	Ca_kabuli_chr07	6106610	TT	AA	1946882959
SNP_P4_92820_6106927	NC_021166.1	Ca_kabuli_chr07	6106927	AA	CC	1946882961
SNP_P4_92821_6106942	NC_021166.1	Ca_kabuli_chr07	6106942	TT	CC	1946882963
SNP_P4_92823_6107492	NC_021166.1	Ca_kabuli_chr07	6107492	GG	CC	1946882965
SNP_P4_92824_6107573	NC_021166.1	Ca_kabuli_chr07	6107573	TT	CC	1946882967
SNP_P4_92825_6110805	NC_021166.1	Ca_kabuli_chr07	6110805	TT	CC	1946882969
SNP_P4_92826_6110810	NC_021166.1	Ca_kabuli_chr07	6110810	CC	TT	1946882971
SNP_P4_92827_6112979	NC_021166.1	Ca_kabuli_chr07	6112979	TT	GG	1946882973
SNP_P4_92828_6113319	NC_021166.1	Ca_kabuli_chr07	6113319	CC	TT	1946882975
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SNP_P4_92831_6118484	NC_021166.1	Ca_kabuli_chr07	6118484	TT	AA	1946882979
SNP_P4_92832_6118512	NC_021166.1	Ca_kabuli_chr07	6118512	AA	TT	1946882981
SNP_P4_92833_6119476	NC_021166.1	Ca_kabuli_chr07	6119476	AA	TT	1946882983
SNP_P4_92834_6120643	NC_021166.1	Ca_kabuli_chr07	6120643	TT	CC	1946882985
SNP_P4_92835_6120684	NC_021166.1	Ca_kabuli_chr07	6120684	GG	AA	1946882987
SNP_P4_92836_6120696	NC_021166.1	Ca_kabuli_chr07	6120696	AA	TT	1946882989
SNP_P4_92837_6120739	NC_021166.1	Ca_kabuli_chr07	6120739	CC	TT	1946882991
SNP_P4_92838_6120745	NC_021166.1	Ca_kabuli_chr07	6120745	AA	GG	1946882993
SNP_P4_92839_6120752	NC_021166.1	Ca_kabuli_chr07	6120752	AA	GG	1946882995
SNP_P4_92840_6120871	NC_021166.1	Ca_kabuli_chr07	6120871	AA	TT	1946882997
SNP_P4_92841_6121150	NC_021166.1	Ca_kabuli_chr07	6121150	GG	TT	1946882999
SNP_P4_92843_6121186	NC_021166.1	Ca_kabuli_chr07	6121186	TT	CC	1946883001
SNP_P4_92844_6121372	NC_021166.1	Ca_kabuli_chr07	6121372	GG	AA	1946883003
SNP_P4_92846_6122331	NC_021166.1	Ca_kabuli_chr07	6122331	AA	GG	1946883005
SNP_P4_92847_6122340	NC_021166.1	Ca_kabuli_chr07	6122340	AA	TT	1946883007
SNP_P4_92848_6122365	NC_021166.1	Ca_kabuli_chr07	6122365	AA	GG	1946883009
SNP_P4_92849_6122392	NC_021166.1	Ca_kabuli_chr07	6122392	GG	CC	1946883011
SNP_P4_92850_6123006	NC_021166.1	Ca_kabuli_chr07	6123006	AA	GG	1946883013
SNP_P4_92851_6123716	NC_021166.1	Ca_kabuli_chr07	6123716	TT	GG	1946883015
SNP_P4_92852_6124439	NC_021166.1	Ca_kabuli_chr07	6124439	TT	CC	1946883017
SNP_P4_92854_6125631	NC_021166.1	Ca_kabuli_chr07	6125631	AA	TT	1946883019
SNP_P4_92855_6125638	NC_021166.1	Ca_kabuli_chr07	6125638	AA	GG	1946883021
SNP_P4_92856_6125663	NC_021166.1	Ca_kabuli_chr07	6125663	GG	AA	1946883023

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_92860_6126333	NC_021166.1	Ca_kabuli_chr07	6126333	TT	AA	1946883029
SNP_P4_92861_6126356	NC_021166.1	Ca_kabuli_chr07	6126356	CC	TT	1946883031
SNP_P4_92863_6126469	NC_021166.1	Ca_kabuli_chr07	6126469	AA	GG	1946883033
SNP_P4_92864_6126831	NC_021166.1	Ca_kabuli_chr07	6126831	CC	TT	1946883035
SNP_P4_92865_6126843	NC_021166.1	Ca_kabuli_chr07	6126843	TT	AA	1946883037
SNP_P4_92866_6127667	NC_021166.1	Ca_kabuli_chr07	6127667	AA	GG	1946883039
SNP_P4_92867_6133957	NC_021166.1	Ca_kabuli_chr07	6133957	CC	TT	1946883041
SNP_P4_92868_6135003	NC_021166.1	Ca_kabuli_chr07	6135003	TT	GG	1946883043
SNP_P4_92869_6140952	NC_021166.1	Ca_kabuli_chr07	6140952	CC	AA	1946883045
SNP_P4_92871_6142269	NC_021166.1	Ca_kabuli_chr07	6142269	CC	TT	1946883047
SNP_P4_92872_6142321	NC_021166.1	Ca_kabuli_chr07	6142321	GG	CC	1946883049
SNP_P4_92873_6142517	NC_021166.1	Ca_kabuli_chr07	6142517	GG	AA	1946883051
SNP_P4_92874_6142526	NC_021166.1	Ca_kabuli_chr07	6142526	GG	AA	1946883053
SNP_P4_92875_6142690	NC_021166.1	Ca_kabuli_chr07	6142690	CC	TT	1946883055
SNP_P4_92876_6142740	NC_021166.1	Ca_kabuli_chr07	6142740	CC	GG	1946883057
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SNP_P4_92883_6144155	NC_021166.1	Ca_kabuli_chr07	6144155	TT	GG	1946883069
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SNP_P4_92890_6145795	NC_021166.1	Ca_kabuli_chr07	6145795	AA	GG	1946883081
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SNP_P4_92897_6150749	NC_021166.1	Ca_kabuli_chr07	6150749	AA	TT	1946883089
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SNP_P4_92899_6153592	NC_021166.1	Ca_kabuli_chr07	6153592	AA	GG	1946883093
SNP_P4_92900_6153593	NC_021166.1	Ca_kabuli_chr07	6153593	AA	GG	1946883095
SNP_P4_92901_6153813	NC_021166.1	Ca_kabuli_chr07	6153813	CC	TT	1946883097
SNP_P4_92902_6153840	NC_021166.1	Ca_kabuli_chr07	6153840	CC	GG	1946883099
SNP_P4_92903_6153849	NC_021166.1	Ca_kabuli_chr07	6153849	AA	TT	1946883101
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SNP_P4_92905_6154477	NC_021166.1	Ca_kabuli_chr07	6154477	AA	GG	1946883105
SNP_P4_92906_6154529	NC_021166.1	Ca_kabuli_chr07	6154529	AA	TT	1946883107

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_92908_6154568	NC_021166.1	Ca_kabuli_chr07	6154568	AA	GG	1946883111
SNP_P4_92909_6154794	NC_021166.1	Ca_kabuli_chr07	6154794	AA	GG	1946883114
SNP_P4_92910_6154803	NC_021166.1	Ca_kabuli_chr07	6154803	GG	AA	1946883116
SNP_P4_92911_6154815	NC_021166.1	Ca_kabuli_chr07	6154815	GG	AA	1946883118
SNP_P4_92912_6154817	NC_021166.1	Ca_kabuli_chr07	6154817	GG	AA	1946883120
SNP_P4_92914_6156279	NC_021166.1	Ca_kabuli_chr07	6156279	CC	TT	1946883122
SNP_P4_92916_6157051	NC_021166.1	Ca_kabuli_chr07	6157051	CC	AA	1946883124
SNP_P4_92917_6157058	NC_021166.1	Ca_kabuli_chr07	6157058	CC	TT	1946883126
SNP_P4_92918_6157066	NC_021166.1	Ca_kabuli_chr07	6157066	CC	TT	1946883128
SNP_P4_92919_6157276	NC_021166.1	Ca_kabuli_chr07	6157276	AA	GG	1946883130
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SNP_P4_92922_6157324	NC_021166.1	Ca_kabuli_chr07	6157324	CC	TT	1946883136
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SNP_P4_92925_6157994	NC_021166.1	Ca_kabuli_chr07	6157994	GG	AA	1946883142
SNP_P4_92926_6158023	NC_021166.1	Ca_kabuli_chr07	6158023	GG	AA	1946883144
SNP_P4_92927_6158097	NC_021166.1	Ca_kabuli_chr07	6158097	GG	TT	1946883146
SNP_P4_92928_6158105	NC_021166.1	Ca_kabuli_chr07	6158105	AA	GG	1946883148
SNP_P4_92929_6158363	NC_021166.1	Ca_kabuli_chr07	6158363	GG	AA	1946883150
SNP_P4_92930_6159419	NC_021166.1	Ca_kabuli_chr07	6159419	GG	AA	1946883152
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SNP_P4_92940_6160604	NC_021166.1	Ca_kabuli_chr07	6160604	AA	CC	1946883166
SNP_P4_92941_6160852	NC_021166.1	Ca_kabuli_chr07	6160852	AA	GG	1946883168
SNP_P4_92942_6160909	NC_021166.1	Ca_kabuli_chr07	6160909	AA	TT	1946883171
SNP_P4_92943_6160972	NC_021166.1	Ca_kabuli_chr07	6160972	CC	TT	1946883173
SNP_P4_92944_6161020	NC_021166.1	Ca_kabuli_chr07	6161020	AA	GG	1946883175
SNP_P4_92945_6161052	NC_021166.1	Ca_kabuli_chr07	6161052	TT	CC	1946883177
SNP_P4_92946_6161055	NC_021166.1	Ca_kabuli_chr07	6161055	TT	CC	1946883179
SNP_P4_92947_6161067	NC_021166.1	Ca_kabuli_chr07	6161067	AA	GG	1946883181
SNP_P4_92948_6161069	NC_021166.1	Ca_kabuli_chr07	6161069	CC	GG	1946883183
SNP_P4_92949_6161099	NC_021166.1	Ca_kabuli_chr07	6161099	GG	AA	1946883185
SNP_P4_92950_6161171	NC_021166.1	Ca_kabuli_chr07	6161171	TT	CC	1946883187
SNP_P4_92951_6161185	NC_021166.1	Ca_kabuli_chr07	6161185	CC	TT	1946883189
SNP_P4_92952_6162913	NC_021166.1	Ca_kabuli_chr07	6162913	CC	AA	1946883191
SNP_P4_92953_6163779	NC_021166.1	Ca_kabuli_chr07	6163779	AA	TT	1946883193

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_92954_6163903	NC_021166.1	Ca_kabuli_chr07	6163903	GG	AA	1946883195
SNP_P4_92955_6164093	NC_021166.1	Ca_kabuli_chr07	6164093	CC	TT	1946883197
SNP_P4_92956_6164099	NC_021166.1	Ca_kabuli_chr07	6164099	CC	GG	1946883199
SNP_P4_92957_6164141	NC_021166.1	Ca_kabuli_chr07	6164141	TT	CC	1946883201
SNP_P4_92958_6164370	NC_021166.1	Ca_kabuli_chr07	6164370	CC	TT	1946883203
SNP_P4_92959_6164398	NC_021166.1	Ca_kabuli_chr07	6164398	CC	TT	1946883205
SNP_P4_92960_6164404	NC_021166.1	Ca_kabuli_chr07	6164404	CC	TT	1946883207
SNP_P4_92962_6166008	NC_021166.1	Ca_kabuli_chr07	6166008	AA	CC	1946883209
SNP_P4_92964_6166075	NC_021166.1	Ca_kabuli_chr07	6166075	GG	AA	1946883211
SNP_P4_92966_6176432	NC_021166.1	Ca_kabuli_chr07	6176432	TT	CC	1946883213
SNP_P4_92967_6177850	NC_021166.1	Ca_kabuli_chr07	6177850	AA	GG	1946883215
SNP_P4_92968_6177852	NC_021166.1	Ca_kabuli_chr07	6177852	AA	TT	1946883217
SNP_P4_92969_6188280	NC_021166.1	Ca_kabuli_chr07	6188280	CC	AA	1946883219
SNP_P4_92971_6223832	NC_021166.1	Ca_kabuli_chr07	6223832	TT	AA	1946883221
SNP_P4_92974_6276839	NC_021166.1	Ca_kabuli_chr07	6276839	CC	TT	1946883223
SNP_P4_92975_6279285	NC_021166.1	Ca_kabuli_chr07	6279285	AA	GG	1946883225
SNP_P4_92976_6298953	NC_021166.1	Ca_kabuli_chr07	6298953	TT	GG	1946883227
SNP_P4_92978_6304255	NC_021166.1	Ca_kabuli_chr07	6304255	CC	TT	1946883229
SNP_P4_92980_6313528	NC_021166.1	Ca_kabuli_chr07	6313528	TT	CC	1946883231
SNP_P4_92981_6339958	NC_021166.1	Ca_kabuli_chr07	6339958	TT	AA	1946883233
SNP_P4_92982_6344821	NC_021166.1	Ca_kabuli_chr07	6344821	GG	AA	1946883235
SNP_P4_92983_6355825	NC_021166.1	Ca_kabuli_chr07	6355825	AA	CC	1946883237
SNP_P4_92985_6404205	NC_021166.1	Ca_kabuli_chr07	6404205	GG	AA	1946883239
SNP_P4_92986_6405207	NC_021166.1	Ca_kabuli_chr07	6405207	TT	AA	1946883241
SNP_P4_92987_6409084	NC_021166.1	Ca_kabuli_chr07	6409084	CC	TT	1946883243
SNP_P4_92988_6434182	NC_021166.1	Ca_kabuli_chr07	6434182	TT	CC	1946883245
SNP_P4_92989_6435046	NC_021166.1	Ca_kabuli_chr07	6435046	TT	AA	1946883247
SNP_P4_92990_6435047	NC_021166.1	Ca_kabuli_chr07	6435047	TT	AA	1946883249
SNP_P4_92991_6441768	NC_021166.1	Ca_kabuli_chr07	6441768	AA	TT	1946883251
SNP_P4_92992_6442573	NC_021166.1	Ca_kabuli_chr07	6442573	GG	AA	1946883253
SNP_P4_92993_6443123	NC_021166.1	Ca_kabuli_chr07	6443123	AA	GG	1946883255
SNP_P4_92994_6443145	NC_021166.1	Ca_kabuli_chr07	6443145	GG	AA	1946883257
SNP_P4_92995_6452358	NC_021166.1	Ca_kabuli_chr07	6452358	AA	GG	1946883259
SNP_P4_92996_6453389	NC_021166.1	Ca_kabuli_chr07	6453389	GG	AA	1946883261
SNP_P4_92997_6464477	NC_021166.1	Ca_kabuli_chr07	6464477	AA	GG	1946883263
SNP_P4_92998_6487058	NC_021166.1	Ca_kabuli_chr07	6487058	TT	AA	1946883265
SNP_P4_92999_6506711	NC_021166.1	Ca_kabuli_chr07	6506711	GG	TT	1946883267
SNP_P4_93000_6570065	NC_021166.1	Ca_kabuli_chr07	6570065	CC	TT	1946883269
SNP_P4_93001_6587004	NC_021166.1	Ca_kabuli_chr07	6587004	CC	TT	1946883271
SNP_P4_93002_6599743	NC_021166.1	Ca_kabuli_chr07	6599743	TT	CC	1946883274
SNP_P4_93005_6629077	NC_021166.1	Ca_kabuli_chr07	6629077	CC	TT	1946883276
SNP_P4_93006_6629117	NC_021166.1	Ca_kabuli_chr07	6629117	TT	CC	1946883278

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_93009_6719148	NC_021166.1	Ca_kabuli_chr07	6719148	TT	CC	1946883282
SNP_P4_93014_6802424	NC_021166.1	Ca_kabuli_chr07	6802424	AA	GG	1946883284
SNP_P4_93015_6812350	NC_021166.1	Ca_kabuli_chr07	6812350	TT	GG	1946883286
SNP_P4_93016_6832606	NC_021166.1	Ca_kabuli_chr07	6832606	GG	AA	1946883288
SNP_P4_93017_6850948	NC_021166.1	Ca_kabuli_chr07	6850948	TT	GG	1946883290
SNP_P4_93018_6875673	NC_021166.1	Ca_kabuli_chr07	6875673	CC	TT	1946883292
SNP_P4_93020_6884304	NC_021166.1	Ca_kabuli_chr07	6884304	AA	TT	1946883294
SNP_P4_93021_6885653	NC_021166.1	Ca_kabuli_chr07	6885653	AA	GG	1946883296
SNP_P4_93023_6906490	NC_021166.1	Ca_kabuli_chr07	6906490	AA	GG	1946883298
SNP_P4_93025_6925283	NC_021166.1	Ca_kabuli_chr07	6925283	AA	GG	1946883300
SNP_P4_93027_6937693	NC_021166.1	Ca_kabuli_chr07	6937693	CC	TT	1946883302
SNP_P4_93028_6959707	NC_021166.1	Ca_kabuli_chr07	6959707	TT	CC	1946883304
SNP_P4_93029_6966243	NC_021166.1	Ca_kabuli_chr07	6966243	CC	TT	1946883306
SNP_P4_93031_6987271	NC_021166.1	Ca_kabuli_chr07	6987271	AA	TT	1946883308
SNP_P4_93032_7020359	NC_021166.1	Ca_kabuli_chr07	7020359	AA	GG	1946883310
SNP_P4_93035_7034525	NC_021166.1	Ca_kabuli_chr07	7034525	GG	AA	1946883312
SNP_P4_93036_7034528	NC_021166.1	Ca_kabuli_chr07	7034528	TT	AA	1946883314
SNP_P4_93037_7035806	NC_021166.1	Ca_kabuli_chr07	7035806	GG	CC	1946883316
SNP_P4_93038_7036370	NC_021166.1	Ca_kabuli_chr07	7036370	CC	TT	1946883318
SNP_P4_93039_7037528	NC_021166.1	Ca_kabuli_chr07	7037528	AA	TT	1946883320
SNP_P4_93040_7047439	NC_021166.1	Ca_kabuli_chr07	7047439	GG	TT	1946883322
SNP_P4_93041_7047466	NC_021166.1	Ca_kabuli_chr07	7047466	GG	CC	1946883324
SNP_P4_93042_7078820	NC_021166.1	Ca_kabuli_chr07	7078820	AA	GG	1946883326
SNP_P4_93043_7097120	NC_021166.1	Ca_kabuli_chr07	7097120	TT	CC	1946883328
SNP_P4_93044_7112494	NC_021166.1	Ca_kabuli_chr07	7112494	CC	TT	1946883330
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SNP_P4_93047_7158506	NC_021166.1	Ca_kabuli_chr07	7158506	AA	GG	1946883334
SNP_P4_93048_7167643	NC_021166.1	Ca_kabuli_chr07	7167643	AA	GG	1946883335
SNP_P4_93049_7169563	NC_021166.1	Ca_kabuli_chr07	7169563	CC	TT	1946883336
SNP_P4_93050_7176979	NC_021166.1	Ca_kabuli_chr07	7176979	GG	CC	1946883337
SNP_P4_93051_7184440	NC_021166.1	Ca_kabuli_chr07	7184440	TT	AA	1946883339
SNP_P4_93052_7184712	NC_021166.1	Ca_kabuli_chr07	7184712	AA	CC	1946883341
SNP_P4_93053_7208803	NC_021166.1	Ca_kabuli_chr07	7208803	AA	TT	1946883343
SNP_P4_93054_7209131	NC_021166.1	Ca_kabuli_chr07	7209131	CC	GG	1946883345
SNP_P4_93055_7240233	NC_021166.1	Ca_kabuli_chr07	7240233	CC	TT	1946883347
SNP_P4_93056_7240253	NC_021166.1	Ca_kabuli_chr07	7240253	GG	AA	1946883349
SNP_P4_93057_7241923	NC_021166.1	Ca_kabuli_chr07	7241923	CC	TT	1946883351
SNP_P4_93058_7244195	NC_021166.1	Ca_kabuli_chr07	7244195	TT	AA	1946883352
SNP_P4_93059_7249289	NC_021166.1	Ca_kabuli_chr07	7249289	TT	AA	1946883353
SNP_P4_93060_7273292	NC_021166.1	Ca_kabuli_chr07	7273292	TT	GG	1946883354
SNP_P4_93061_7288245	NC_021166.1	Ca_kabuli_chr07	7288245	GG	CC	1946883355

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_93063_7298884	NC_021166.1	Ca_kabuli_chr07	7298884	TT	AA	1946883358
SNP_P4_93064_7310224	NC_021166.1	Ca_kabuli_chr07	7310224	CC	TT	1946883360
SNP_P4_93065_7314066	NC_021166.1	Ca_kabuli_chr07	7314066	AA	GG	1946883362
SNP_P4_93066_7331445	NC_021166.1	Ca_kabuli_chr07	7331445	TT	CC	1946883364
SNP_P4_93067_7336470	NC_021166.1	Ca_kabuli_chr07	7336470	TT	CC	1946883366
SNP_P4_93068_7360723	NC_021166.1	Ca_kabuli_chr07	7360723	CC	TT	1946883368
SNP_P4_93072_7507599	NC_021166.1	Ca_kabuli_chr07	7507599	CC	TT	1946883370
SNP_P4_93074_7531485	NC_021166.1	Ca_kabuli_chr07	7531485	AA	TT	1946883372
SNP_P4_93075_7532236	NC_021166.1	Ca_kabuli_chr07	7532236	CC	TT	1946883374
SNP_P4_93076_7535138	NC_021166.1	Ca_kabuli_chr07	7535138	AA	GG	1946883376
SNP_P4_93078_7552710	NC_021166.1	Ca_kabuli_chr07	7552710	TT	GG	1946883378
SNP_P4_93079_7553246	NC_021166.1	Ca_kabuli_chr07	7553246	CC	TT	1946883380
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SNP_P4_93082_7563062	NC_021166.1	Ca_kabuli_chr07	7563062	AA	TT	1946883384
SNP_P4_93084_7608939	NC_021166.1	Ca_kabuli_chr07	7608939	GG	CC	1946883386
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SNP_P4_93086_7617865	NC_021166.1	Ca_kabuli_chr07	7617865	CC	GG	1946883390
SNP_P4_93087_7619177	NC_021166.1	Ca_kabuli_chr07	7619177	GG	AA	1946883392
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SNP_P4_93093_7673193	NC_021166.1	Ca_kabuli_chr07	7673193	TT	CC	1946883400
SNP_P4_93095_7695385	NC_021166.1	Ca_kabuli_chr07	7695385	CC	GG	1946883402
SNP_P4_93096_7695415	NC_021166.1	Ca_kabuli_chr07	7695415	AA	CC	1946883404
SNP_P4_93097_7698837	NC_021166.1	Ca_kabuli_chr07	7698837	GG	TT	1946883406
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SNP_P4_93099_7737501	NC_021166.1	Ca_kabuli_chr07	7737501	GG	AA	1946883410
SNP_P4_93100_7737645	NC_021166.1	Ca_kabuli_chr07	7737645	GG	AA	1946883412
SNP_P4_93101_7737855	NC_021166.1	Ca_kabuli_chr07	7737855	TT	CC	1946883414
SNP_P4_93102_7737899	NC_021166.1	Ca_kabuli_chr07	7737899	CC	TT	1946883416
SNP_P4_93103_7737942	NC_021166.1	Ca_kabuli_chr07	7737942	AA	TT	1946883418
SNP_P4_93104_7737963	NC_021166.1	Ca_kabuli_chr07	7737963	TT	GG	1946883420
SNP_P4_93105_7737970	NC_021166.1	Ca_kabuli_chr07	7737970	TT	GG	1946883422
SNP_P4_93106_7737997	NC_021166.1	Ca_kabuli_chr07	7737997	TT	CC	1946883424
SNP_P4_93108_7738128	NC_021166.1	Ca_kabuli_chr07	7738128	TT	GG	1946883426
SNP_P4_93109_7738138	NC_021166.1	Ca_kabuli_chr07	7738138	AA	GG	1946883428
SNP_P4_93111_7738245	NC_021166.1	Ca_kabuli_chr07	7738245	AA	GG	1946883430
SNP_P4_93112_7738483	NC_021166.1	Ca_kabuli_chr07	7738483	AA	GG	1946883432
SNP_P4_93113_7738508	NC_021166.1	Ca_kabuli_chr07	7738508	AA	GG	1946883434
SNP_P4_93115_7738695	NC_021166.1	Ca_kabuli_chr07	7738695	TT	GG	1946883436
SNP_P4_93116_7738708	NC_021166.1	Ca_kabuli_chr07	7738708	AA	GG	1946883438

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_93118_7738943	NC_021166.1	Ca_kabuli_chr07	7738943	AA	GG	1946883442
SNP_P4_93119_7738949	NC_021166.1	Ca_kabuli_chr07	7738949	TT	CC	1946883444
SNP_P4_93120_7738965	NC_021166.1	Ca_kabuli_chr07	7738965	TT	CC	1946883446
SNP_P4_93121_7738970	NC_021166.1	Ca_kabuli_chr07	7738970	AA	GG	1946883448
SNP_P4_93122_7738985	NC_021166.1	Ca_kabuli_chr07	7738985	AA	GG	1946883450
SNP_P4_93123_7738991	NC_021166.1	Ca_kabuli_chr07	7738991	TT	CC	1946883452
SNP_P4_93124_7738998	NC_021166.1	Ca_kabuli_chr07	7738998	GG	TT	1946883454
SNP_P4_93125_7739000	NC_021166.1	Ca_kabuli_chr07	7739000	CC	TT	1946883456
SNP_P4_93126_7739021	NC_021166.1	Ca_kabuli_chr07	7739021	TT	CC	1946883458
SNP_P4_93127_7739056	NC_021166.1	Ca_kabuli_chr07	7739056	CC	TT	1946883460
SNP_P4_93128_7739157	NC_021166.1	Ca_kabuli_chr07	7739157	TT	CC	1946883462
SNP_P4_93129_7739184	NC_021166.1	Ca_kabuli_chr07	7739184	TT	AA	1946883464
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SNP_P4_93131_7739222	NC_021166.1	Ca_kabuli_chr07	7739222	TT	AA	1946883468
SNP_P4_93132_7739223	NC_021166.1	Ca_kabuli_chr07	7739223	TT	CC	1946883470
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SNP_P4_93135_7739407	NC_021166.1	Ca_kabuli_chr07	7739407	AA	GG	1946883474
SNP_P4_93136_7751857	NC_021166.1	Ca_kabuli_chr07	7751857	CC	AA	1946883476
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SNP_P4_93140_7777314	NC_021166.1	Ca_kabuli_chr07	7777314	TT	CC	1946883482
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SNP_P4_93142_7781961	NC_021166.1	Ca_kabuli_chr07	7781961	TT	CC	1946883486
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SNP_P4_93146_7882550	NC_021166.1	Ca_kabuli_chr07	7882550	AA	CC	1946883494
SNP_P4_93147_7882554	NC_021166.1	Ca_kabuli_chr07	7882554	TT	CC	1946883496
SNP_P4_93148_7902125	NC_021166.1	Ca_kabuli_chr07	7902125	AA	CC	1946883498
SNP_P4_93149_7904122	NC_021166.1	Ca_kabuli_chr07	7904122	TT	AA	1946883500
SNP_P4_93150_7910341	NC_021166.1	Ca_kabuli_chr07	7910341	TT	AA	1946883502
SNP_P4_93151_7922051	NC_021166.1	Ca_kabuli_chr07	7922051	AA	GG	1946883504
SNP_P4_93153_7942318	NC_021166.1	Ca_kabuli_chr07	7942318	TT	GG	1946883506
SNP_P4_93154_7942319	NC_021166.1	Ca_kabuli_chr07	7942319	AA	GG	1946883508
SNP_P4_93157_7963385	NC_021166.1	Ca_kabuli_chr07	7963385	GG	TT	1946883510
SNP_P4_93159_7975901	NC_021166.1	Ca_kabuli_chr07	7975901	AA	TT	1946883513
SNP_P4_93161_7979794	NC_021166.1	Ca_kabuli_chr07	7979794	TT	AA	1946883515
SNP_P4_93162_7998303	NC_021166.1	Ca_kabuli_chr07	7998303	AA	GG	1946883517
SNP_P4_93163_7998666	NC_021166.1	Ca_kabuli_chr07	7998666	GG	TT	1946883519
SNP_P4_93164_7998691	NC_021166.1	Ca_kabuli_chr07	7998691	AA	GG	1946883521
SNP_P4_93165_7998692	NC_021166.1	Ca_kabuli_chr07	7998692	AA	GG	1946883522

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_93168_7998709	NC_021166.1	Ca_kabuli_chr07	7998709	TT	AA	1946883528
SNP_P4_93169_7998861	NC_021166.1	Ca_kabuli_chr07	7998861	TT	CC	1946883530
SNP_P4_93170_8077659	NC_021166.1	Ca_kabuli_chr07	8077659	CC	TT	1946883533
SNP_P4_93171_8085222	NC_021166.1	Ca_kabuli_chr07	8085222	TT	AA	1946883535
SNP_P4_93174_8100998	NC_021166.1	Ca_kabuli_chr07	8100998	TT	GG	1946883537
SNP_P4_93175_8107267	NC_021166.1	Ca_kabuli_chr07	8107267	TT	CC	1946883539
SNP_P4_93176_8128139	NC_021166.1	Ca_kabuli_chr07	8128139	AA	CC	1946883541
SNP_P4_93177_8148038	NC_021166.1	Ca_kabuli_chr07	8148038	AA	GG	1946883543
SNP_P4_93179_8152046	NC_021166.1	Ca_kabuli_chr07	8152046	TT	AA	1946883545
SNP_P4_93180_8160816	NC_021166.1	Ca_kabuli_chr07	8160816	TT	CC	1946883547
SNP_P4_93183_8192654	NC_021166.1	Ca_kabuli_chr07	8192654	TT	AA	1946883549
SNP_P4_93184_8192723	NC_021166.1	Ca_kabuli_chr07	8192723	CC	TT	1946883551
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SNP_P4_93187_8193470	NC_021166.1	Ca_kabuli_chr07	8193470	GG	CC	1946883557
SNP_P4_93188_8193525	NC_021166.1	Ca_kabuli_chr07	8193525	TT	CC	1946883559
SNP_P4_93189_8204204	NC_021166.1	Ca_kabuli_chr07	8204204	AA	GG	1946883560
SNP_P4_93190_8222749	NC_021166.1	Ca_kabuli_chr07	8222749	AA	TT	1946883562
SNP_P4_93191_8224440	NC_021166.1	Ca_kabuli_chr07	8224440	AA	GG	1946883564
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SNP_P4_93200_8327369	NC_021166.1	Ca_kabuli_chr07	8327369	AA	TT	1946883578
SNP_P4_93201_8327387	NC_021166.1	Ca_kabuli_chr07	8327387	GG	AA	1946883580
SNP_P4_93202_8327398	NC_021166.1	Ca_kabuli_chr07	8327398	TT	GG	1946883582
SNP_P4_93203_8336810	NC_021166.1	Ca_kabuli_chr07	8336810	AA	TT	1946883584
SNP_P4_93205_8373531	NC_021166.1	Ca_kabuli_chr07	8373531	TT	CC	1946883586
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SNP_P4_93208_8513470	NC_021166.1	Ca_kabuli_chr07	8513470	AA	TT	1946883590
SNP_P4_93209_8522290	NC_021166.1	Ca_kabuli_chr07	8522290	CC	TT	1946883592
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SNP_P4_93213_8522562	NC_021166.1	Ca_kabuli_chr07	8522562	AA	GG	1946883598
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SNP_P4_93215_8539904	NC_021166.1	Ca_kabuli_chr07	8539904	GG	AA	1946883602
SNP_P4_93216_8561263	NC_021166.1	Ca_kabuli_chr07	8561263	TT	CC	1946883604
SNP_P4_93217_8578518	NC_021166.1	Ca_kabuli_chr07	8578518	TT	AA	1946883606

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_93221_8581250	NC_021166.1	Ca_kabuli_chr07	8581250	GG	AA	1946883612
SNP_P4_93222_8606249	NC_021166.1	Ca_kabuli_chr07	8606249	AA	TT	1946883615
SNP_P4_93223_8607899	NC_021166.1	Ca_kabuli_chr07	8607899	TT	CC	1946883617
SNP_P4_93224_8608039	NC_021166.1	Ca_kabuli_chr07	8608039	TT	AA	1946883619
SNP_P4_93225_8613467	NC_021166.1	Ca_kabuli_chr07	8613467	TT	AA	1946883621
SNP_P4_93226_8644785	NC_021166.1	Ca_kabuli_chr07	8644785	GG	AA	1946883623
SNP_P4_93227_8664691	NC_021166.1	Ca_kabuli_chr07	8664691	CC	TT	1946883626
SNP_P4_93228_8667494	NC_021166.1	Ca_kabuli_chr07	8667494	AA	GG	1946883628
SNP_P4_93229_8674247	NC_021166.1	Ca_kabuli_chr07	8674247	GG	AA	1946883630
SNP_P4_93230_8674355	NC_021166.1	Ca_kabuli_chr07	8674355	CC	TT	1946883632
SNP_P4_93231_8689148	NC_021166.1	Ca_kabuli_chr07	8689148	TT	CC	1946883634
SNP_P4_93232_8732762	NC_021166.1	Ca_kabuli_chr07	8732762	TT	CC	1946883636
SNP_P4_93233_8734547	NC_021166.1	Ca_kabuli_chr07	8734547	AA	TT	1946883638
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SNP_P4_93236_8798209	NC_021166.1	Ca_kabuli_chr07	8798209	AA	TT	1946883644
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SNP_P4_93238_8832920	NC_021166.1	Ca_kabuli_chr07	8832920	AA	TT	1946883648
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SNP_P4_93240_8834454	NC_021166.1	Ca_kabuli_chr07	8834454	TT	AA	1946883652
SNP_P4_93241_8835783	NC_021166.1	Ca_kabuli_chr07	8835783	CC	TT	1946883654
SNP_P4_93242_8851451	NC_021166.1	Ca_kabuli_chr07	8851451	AA	TT	1946883656
SNP_P4_93244_8967693	NC_021166.1	Ca_kabuli_chr07	8967693	CC	TT	1946883658
SNP_P4_93246_8988833	NC_021166.1	Ca_kabuli_chr07	8988833	AA	GG	1946883660
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SNP_P4_93259_9076370	NC_021166.1	Ca_kabuli_chr07	9076370	TT	CC	1946883682
SNP_P4_93260_9090592	NC_021166.1	Ca_kabuli_chr07	9090592	TT	CC	1946883684
SNP_P4_93262_9110950	NC_021166.1	Ca_kabuli_chr07	9110950	TT	CC	1946883686
SNP_P4_93263_9129977	NC_021166.1	Ca_kabuli_chr07	9129977	TT	AA	1946883688
SNP_P4_93265_9158472	NC_021166.1	Ca_kabuli_chr07	9158472	CC	TT	1946883690
SNP_P4_93266_9180447	NC_021166.1	Ca_kabuli_chr07	9180447	TT	CC	1946883692

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_93269_9180839	NC_021166.1	Ca_kabuli_chr07	9180839	GG	AA	1946883698
SNP_P4_93271_9181568	NC_021166.1	Ca_kabuli_chr07	9181568	GG	AA	1946883700
SNP_P4_93273_9181880	NC_021166.1	Ca_kabuli_chr07	9181880	AA	TT	1946883702
SNP_P4_93274_9182567	NC_021166.1	Ca_kabuli_chr07	9182567	GG	AA	1946883704
SNP_P4_93276_9182913	NC_021166.1	Ca_kabuli_chr07	9182913	GG	AA	1946883706
SNP_P4_93277_9183167	NC_021166.1	Ca_kabuli_chr07	9183167	TT	GG	1946883708
SNP_P4_93278_9200800	NC_021166.1	Ca_kabuli_chr07	9200800	AA	GG	1946883710
SNP_P4_93279_9200805	NC_021166.1	Ca_kabuli_chr07	9200805	CC	AA	1946883712
SNP_P4_93280_9203766	NC_021166.1	Ca_kabuli_chr07	9203766	CC	AA	1946883714
SNP_P4_93281_9204528	NC_021166.1	Ca_kabuli_chr07	9204528	CC	TT	1946883716
SNP_P4_93282_9206898	NC_021166.1	Ca_kabuli_chr07	9206898	CC	AA	1946883718
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SNP_P4_93286_9232488	NC_021166.1	Ca_kabuli_chr07	9232488	CC	TT	1946883726
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SNP_P4_93289_9260551	NC_021166.1	Ca_kabuli_chr07	9260551	CC	TT	1946883732
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SNP_P4_93292_9269879	NC_021166.1	Ca_kabuli_chr07	9269879	GG	AA	1946883736
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SNP_P4_93303_9340323	NC_021166.1	Ca_kabuli_chr07	9340323	TT	AA	1946883752
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SNP_P4_93305_9340450	NC_021166.1	Ca_kabuli_chr07	9340450	AA	CC	1946883756
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SNP_P4_93308_9369225	NC_021166.1	Ca_kabuli_chr07	9369225	CC	TT	1946883760
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SNP_P4_93313_9425581	NC_021166.1	Ca_kabuli_chr07	9425581	TT	CC	1946883766
SNP_P4_93315_9434908	NC_021166.1	Ca_kabuli_chr07	9434908	GG	AA	1946883768
SNP_P4_93316_9452502	NC_021166.1	Ca_kabuli_chr07	9452502	AA	GG	1946883770
SNP_P4_93317_9458260	NC_021166.1	Ca_kabuli_chr07	9458260	GG	TT	1946883772
SNP_P4_93318_9462322	NC_021166.1	Ca_kabuli_chr07	9462322	TT	GG	1946883774
SNP_P4_93319_9474546	NC_021166.1	Ca_kabuli_chr07	9474546	TT	CC	1946883776

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_93323_9581429	NC_021166.1	Ca_kabuli_chr07	9581429	AA	GG	1946883782
SNP_P4_93324_9587888	NC_021166.1	Ca_kabuli_chr07	9587888	CC	AA	1946883784
SNP_P4_93326_9595602	NC_021166.1	Ca_kabuli_chr07	9595602	AA	GG	1946883786
SNP_P4_93327_9627518	NC_021166.1	Ca_kabuli_chr07	9627518	AA	GG	1946883788
SNP_P4_93328_9627521	NC_021166.1	Ca_kabuli_chr07	9627521	TT	CC	1946883789
SNP_P4_93329_9632417	NC_021166.1	Ca_kabuli_chr07	9632417	TT	AA	1946883791
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SNP_P4_93332_9639480	NC_021166.1	Ca_kabuli_chr07	9639480	AA	GG	1946883797
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SNP_P4_93334_9707334	NC_021166.1	Ca_kabuli_chr07	9707334	AA	GG	1946883801
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SNP_P4_93336_9715137	NC_021166.1	Ca_kabuli_chr07	9715137	AA	GG	1946883805
SNP_P4_93337_9715141	NC_021166.1	Ca_kabuli_chr07	9715141	AA	CC	1946883807
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SNP_P4_93348_9802587	NC_021166.1	Ca_kabuli_chr07	9802587	AA	GG	1946883829
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SNP_P4_93351_9802804	NC_021166.1	Ca_kabuli_chr07	9802804	CC	TT	1946883835
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SNP_P4_93361_9997311	NC_021166.1	Ca_kabuli_chr07	9997311	GG	AA	1946883849
SNP_P4_93362_9997330	NC_021166.1	Ca_kabuli_chr07	9997330	TT	CC	1946883851
SNP_P4_93363_9997332	NC_021166.1	Ca_kabuli_chr07	9997332	CC	TT	1946883853
SNP_P4_93364_9997352	NC_021166.1	Ca_kabuli_chr07	9997352	TT	CC	1946883855
SNP_P4_93365_9997457	NC_021166.1	Ca_kabuli_chr07	9997457	AA	GG	1946883857
SNP_P4_93366_9997503	NC_021166.1	Ca_kabuli_chr07	9997503	CC	TT	1946883859

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SNP_P4_93372_10088402	NC_021166.1	Ca_kabuli_chr07	10088402	CC	TT	1946883865
SNP_P4_93373_10100160	NC_021166.1	Ca_kabuli_chr07	10100160	TT	AA	1946883867
SNP_P4_93374_10101009	NC_021166.1	Ca_kabuli_chr07	10101009	TT	CC	1946883869
SNP_P4_93375_10101973	NC_021166.1	Ca_kabuli_chr07	10101973	GG	AA	1946883871
SNP_P4_93376_10111565	NC_021166.1	Ca_kabuli_chr07	10111565	TT	AA	1946883873
SNP_P4_93378_10176468	NC_021166.1	Ca_kabuli_chr07	10176468	GG	AA	1946883875
SNP_P4_93379_10186355	NC_021166.1	Ca_kabuli_chr07	10186355	TT	GG	1946883877
SNP_P4_93381_10204859	NC_021166.1	Ca_kabuli_chr07	10204859	AA	TT	1946883879
SNP_P4_93383_10238310	NC_021166.1	Ca_kabuli_chr07	10238310	CC	TT	1946883881
SNP_P4_93384_10238318	NC_021166.1	Ca_kabuli_chr07	10238318	AA	GG	1946883883
SNP_P4_93387_10248820	NC_021166.1	Ca_kabuli_chr07	10248820	AA	CC	1946883885
SNP_P4_93388_10248821	NC_021166.1	Ca_kabuli_chr07	10248821	AA	GG	1946883887
SNP_P4_93390_10297837	NC_021166.1	Ca_kabuli_chr07	10297837	GG	TT	1946883889
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SNP_P4_93396_10362579	NC_021166.1	Ca_kabuli_chr07	10362579	TT	CC	1946883901
SNP_P4_93397_10369190	NC_021166.1	Ca_kabuli_chr07	10369190	CC	TT	1946883903
SNP_P4_93398_10372327	NC_021166.1	Ca_kabuli_chr07	10372327	TT	CC	1946883905
SNP_P4_93400_10376447	NC_021166.1	Ca_kabuli_chr07	10376447	AA	GG	1946883907
SNP_P4_93401_10378334	NC_021166.1	Ca_kabuli_chr07	10378334	TT	GG	1946883909
SNP_P4_93402_10378338	NC_021166.1	Ca_kabuli_chr07	10378338	AA	CC	1946883911
SNP_P4_93403_10378352	NC_021166.1	Ca_kabuli_chr07	10378352	AA	TT	1946883913
SNP_P4_93404_10380755	NC_021166.1	Ca_kabuli_chr07	10380755	TT	CC	1946883915
SNP_P4_93405_10393851	NC_021166.1	Ca_kabuli_chr07	10393851	CC	TT	1946883917
SNP_P4_93406_10398194	NC_021166.1	Ca_kabuli_chr07	10398194	TT	CC	1946883919
SNP_P4_93407_10403390	NC_021166.1	Ca_kabuli_chr07	10403390	TT	CC	1946883921
SNP_P4_93408_10407271	NC_021166.1	Ca_kabuli_chr07	10407271	AA	GG	1946883923
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SNP_P4_93412_10496025	NC_021166.1	Ca_kabuli_chr07	10496025	AA	TT	1946883927
SNP_P4_93413_10502292	NC_021166.1	Ca_kabuli_chr07	10502292	TT	GG	1946883929
SNP_P4_93414_10534420	NC_021166.1	Ca_kabuli_chr07	10534420	CC	TT	1946883931
SNP_P4_93415_10535788	NC_021166.1	Ca_kabuli_chr07	10535788	AA	GG	1946883933
SNP_P4_93416_10535805	NC_021166.1	Ca_kabuli_chr07	10535805	GG	AA	1946883935
SNP_P4_93417_10535813	NC_021166.1	Ca_kabuli_chr07	10535813	TT	AA	1946883937
SNP_P4_93418_10536192	NC_021166.1	Ca_kabuli_chr07	10536192	CC	TT	1946883939
SNP_P4_93419_10536209	NC_021166.1	Ca_kabuli_chr07	10536209	GG	AA	1946883941
SNP_P4_93420_10536223	NC_021166.1	Ca_kabuli_chr07	10536223	GG	AA	1946883943

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_93422_10538852	NC_021166.1	Ca_kabuli_chr07	10538852	CC	TT	1946883947
SNP_P4_93423_10538864	NC_021166.1	Ca_kabuli_chr07	10538864	GG	TT	1946883949
SNP_P4_93424_10542831	NC_021166.1	Ca_kabuli_chr07	10542831	TT	CC	1946883951
SNP_P4_93425_10543245	NC_021166.1	Ca_kabuli_chr07	10543245	TT	GG	1946883953
SNP_P4_93426_10543877	NC_021166.1	Ca_kabuli_chr07	10543877	GG	AA	1946883955
SNP_P4_93427_10543912	NC_021166.1	Ca_kabuli_chr07	10543912	AA	GG	1946883957
SNP_P4_93428_10550227	NC_021166.1	Ca_kabuli_chr07	10550227	CC	TT	1946883959
SNP_P4_93430_10584729	NC_021166.1	Ca_kabuli_chr07	10584729	TT	GG	1946883961
SNP_P4_93431_10592049	NC_021166.1	Ca_kabuli_chr07	10592049	GG	AA	1946883963
SNP_P4_93432_10592089	NC_021166.1	Ca_kabuli_chr07	10592089	CC	TT	1946883965
SNP_P4_93433_10592163	NC_021166.1	Ca_kabuli_chr07	10592163	GG	AA	1946883967
SNP_P4_93434_10592168	NC_021166.1	Ca_kabuli_chr07	10592168	GG	AA	1946883969
SNP_P4_93435_10592199	NC_021166.1	Ca_kabuli_chr07	10592199	CC	TT	1946883971
SNP_P4_93436_10592223	NC_021166.1	Ca_kabuli_chr07	10592223	AA	GG	1946883973
SNP_P4_93437_10592559	NC_021166.1	Ca_kabuli_chr07	10592559	AA	GG	1946883975
SNP_P4_93438_10592589	NC_021166.1	Ca_kabuli_chr07	10592589	TT	CC	1946883977
SNP_P4_93439_10592620	NC_021166.1	Ca_kabuli_chr07	10592620	TT	CC	1946883979
SNP_P4_93440_10592666	NC_021166.1	Ca_kabuli_chr07	10592666	AA	GG	1946883981
SNP_P4_93441_10592693	NC_021166.1	Ca_kabuli_chr07	10592693	TT	CC	1946883983
SNP_P4_93443_10620191	NC_021166.1	Ca_kabuli_chr07	10620191	AA	GG	1946883985
SNP_P4_93444_10621989	NC_021166.1	Ca_kabuli_chr07	10621989	AA	GG	1946883987
SNP_P4_93447_10664481	NC_021166.1	Ca_kabuli_chr07	10664481	AA	GG	1946883989
SNP_P4_93450_10715182	NC_021166.1	Ca_kabuli_chr07	10715182	GG	AA	1946883991
SNP_P4_93451_10730287	NC_021166.1	Ca_kabuli_chr07	10730287	TT	GG	1946883993
SNP_P4_93452_10731941	NC_021166.1	Ca_kabuli_chr07	10731941	GG	AA	1946883995
SNP_P4_93453_10735446	NC_021166.1	Ca_kabuli_chr07	10735446	AA	GG	1946883997
SNP_P4_93454_10739359	NC_021166.1	Ca_kabuli_chr07	10739359	GG	AA	1946883999
SNP_P4_93456_10749577	NC_021166.1	Ca_kabuli_chr07	10749577	TT	CC	1946884001
SNP_P4_93457_10749579	NC_021166.1	Ca_kabuli_chr07	10749579	TT	CC	1946884003
SNP_P4_93458_10751435	NC_021166.1	Ca_kabuli_chr07	10751435	GG	CC	1946884005
SNP_P4_93459_10755095	NC_021166.1	Ca_kabuli_chr07	10755095	AA	GG	1946884007
SNP_P4_93461_10761432	NC_021166.1	Ca_kabuli_chr07	10761432	CC	TT	1946884009
SNP_P4_93464_10782468	NC_021166.1	Ca_kabuli_chr07	10782468	AA	TT	1946884011
SNP_P4_93467_10789281	NC_021166.1	Ca_kabuli_chr07	10789281	GG	AA	1946884013
SNP_P4_93471_10813461	NC_021166.1	Ca_kabuli_chr07	10813461	GG	AA	1946884015
SNP_P4_93472_10813680	NC_021166.1	Ca_kabuli_chr07	10813680	GG	AA	1946884017
SNP_P4_93475_10827036	NC_021166.1	Ca_kabuli_chr07	10827036	CC	TT	1946884019
SNP_P4_93477_10837562	NC_021166.1	Ca_kabuli_chr07	10837562	AA	TT	1946884021
SNP_P4_93478_10837769	NC_021166.1	Ca_kabuli_chr07	10837769	TT	AA	1946884023
SNP_P4_93479_10843834	NC_021166.1	Ca_kabuli_chr07	10843834	CC	TT	1946884025
SNP_P4_93480_10844061	NC_021166.1	Ca_kabuli_chr07	10844061	TT	CC	1946884027

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_93484_10888742	NC_021166.1	Ca_kabuli_chr07	10888742	CC	TT	1946884031
SNP_P4_93485_10909859	NC_021166.1	Ca_kabuli_chr07	10909859	AA	GG	1946884033
SNP_P4_93487_10922010	NC_021166.1	Ca_kabuli_chr07	10922010	TT	AA	1946884035
SNP_P4_93488_10932273	NC_021166.1	Ca_kabuli_chr07	10932273	GG	AA	1946884037
SNP_P4_93489_10938734	NC_021166.1	Ca_kabuli_chr07	10938734	TT	CC	1946884039
SNP_P4_93491_10961214	NC_021166.1	Ca_kabuli_chr07	10961214	TT	CC	1946884041
SNP_P4_93492_10961229	NC_021166.1	Ca_kabuli_chr07	10961229	CC	AA	1946884043
SNP_P4_93493_10961510	NC_021166.1	Ca_kabuli_chr07	10961510	TT	CC	1946884045
SNP_P4_93494_10961546	NC_021166.1	Ca_kabuli_chr07	10961546	GG	AA	1946884047
SNP_P4_93495_10961551	NC_021166.1	Ca_kabuli_chr07	10961551	AA	GG	1946884049
SNP_P4_93496_10961570	NC_021166.1	Ca_kabuli_chr07	10961570	TT	CC	1946884051
SNP_P4_93497_10961602	NC_021166.1	Ca_kabuli_chr07	10961602	CC	TT	1946884053
SNP_P4_93498_10964515	NC_021166.1	Ca_kabuli_chr07	10964515	AA	GG	1946884055
SNP_P4_93500_10974261	NC_021166.1	Ca_kabuli_chr07	10974261	GG	AA	1946884057
SNP_P4_93501_10990730	NC_021166.1	Ca_kabuli_chr07	10990730	TT	CC	1946884059
SNP_P4_93505_11053660	NC_021166.1	Ca_kabuli_chr07	11053660	CC	TT	1946884061
SNP_P4_93506_11053713	NC_021166.1	Ca_kabuli_chr07	11053713	TT	AA	1946884063
SNP_P4_93507_11053714	NC_021166.1	Ca_kabuli_chr07	11053714	TT	GG	1946884065
SNP_P4_93508_11063244	NC_021166.1	Ca_kabuli_chr07	11063244	TT	GG	1946884067
SNP_P4_93509_11063252	NC_021166.1	Ca_kabuli_chr07	11063252	TT	AA	1946884069
SNP_P4_93512_11075671	NC_021166.1	Ca_kabuli_chr07	11075671	AA	GG	1946884071
SNP_P4_93514_11094257	NC_021166.1	Ca_kabuli_chr07	11094257	AA	GG	1946884073
SNP_P4_93515_11096032	NC_021166.1	Ca_kabuli_chr07	11096032	AA	GG	1946884075
SNP_P4_93517_11128395	NC_021166.1	Ca_kabuli_chr07	11128395	AA	GG	1946884077
SNP_P4_93518_11128399	NC_021166.1	Ca_kabuli_chr07	11128399	GG	AA	1946884079
SNP_P4_93519_11128417	NC_021166.1	Ca_kabuli_chr07	11128417	AA	CC	1946884081
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SNP_P4_93521_11128444	NC_021166.1	Ca_kabuli_chr07	11128444	TT	CC	1946884085
SNP_P4_93522_11145149	NC_021166.1	Ca_kabuli_chr07	11145149	GG	AA	1946884087
SNP_P4_93523_11151774	NC_021166.1	Ca_kabuli_chr07	11151774	GG	AA	1946884089
SNP_P4_93524_11151799	NC_021166.1	Ca_kabuli_chr07	11151799	CC	AA	1946884091
SNP_P4_93525_11152894	NC_021166.1	Ca_kabuli_chr07	11152894	GG	AA	1946884093
SNP_P4_93526_11154191	NC_021166.1	Ca_kabuli_chr07	11154191	AA	GG	1946884095
SNP_P4_93527_11168722	NC_021166.1	Ca_kabuli_chr07	11168722	AA	TT	1946884097
SNP_P4_93528_11172679	NC_021166.1	Ca_kabuli_chr07	11172679	TT	AA	1946884099
SNP_P4_93529_11176407	NC_021166.1	Ca_kabuli_chr07	11176407	AA	GG	1946884101
SNP_P4_93530_11218612	NC_021166.1	Ca_kabuli_chr07	11218612	GG	AA	1946884104
SNP_P4_93531_11279721	NC_021166.1	Ca_kabuli_chr07	11279721	AA	GG	1946884106
SNP_P4_93532_11305184	NC_021166.1	Ca_kabuli_chr07	11305184	GG	AA	1946884108
SNP_P4_93534_11343966	NC_021166.1	Ca_kabuli_chr07	11343966	AA	TT	1946884110
SNP_P4_93535_11360559	NC_021166.1	Ca_kabuli_chr07	11360559	GG	AA	1946884112

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_93538_11361024	NC_021166.1	Ca_kabuli_chr07	11361024	GG	AA	1946884116
SNP_P4_93539_11366405	NC_021166.1	Ca_kabuli_chr07	11366405	CC	TT	1946884118
SNP_P4_93542_11430771	NC_021166.1	Ca_kabuli_chr07	11430771	GG	CC	1946884120
SNP_P4_93543_11433428	NC_021166.1	Ca_kabuli_chr07	11433428	AA	TT	1946884122
SNP_P4_93544_11433454	NC_021166.1	Ca_kabuli_chr07	11433454	TT	AA	1946884124
SNP_P4_93545_11458264	NC_021166.1	Ca_kabuli_chr07	11458264	TT	CC	1946884127
SNP_P4_93546_11483502	NC_021166.1	Ca_kabuli_chr07	11483502	AA	CC	1946884129
SNP_P4_93547_11483503	NC_021166.1	Ca_kabuli_chr07	11483503	AA	GG	1946884131
SNP_P4_93548_11513486	NC_021166.1	Ca_kabuli_chr07	11513486	TT	CC	1946884133
SNP_P4_93550_11514071	NC_021166.1	Ca_kabuli_chr07	11514071	TT	CC	1946884135
SNP_P4_93551_11529429	NC_021166.1	Ca_kabuli_chr07	11529429	GG	AA	1946884137
SNP_P4_93553_11541618	NC_021166.1	Ca_kabuli_chr07	11541618	TT	CC	1946884139
SNP_P4_93554_11555671	NC_021166.1	Ca_kabuli_chr07	11555671	AA	TT	1946884141
SNP_P4_93556_11594652	NC_021166.1	Ca_kabuli_chr07	11594652	CC	TT	1946884143
SNP_P4_93557_11597962	NC_021166.1	Ca_kabuli_chr07	11597962	TT	AA	1946884145
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SNP_P4_93559_11637998	NC_021166.1	Ca_kabuli_chr07	11637998	CC	TT	1946884150
SNP_P4_93560_11646813	NC_021166.1	Ca_kabuli_chr07	11646813	CC	TT	1946884152
SNP_P4_93562_11678377	NC_021166.1	Ca_kabuli_chr07	11678377	TT	CC	1946884154
SNP_P4_93563_11679090	NC_021166.1	Ca_kabuli_chr07	11679090	TT	CC	1946884156
SNP_P4_93564_11682674	NC_021166.1	Ca_kabuli_chr07	11682674	GG	AA	1946884158
SNP_P4_93565_11697451	NC_021166.1	Ca_kabuli_chr07	11697451	GG	TT	1946884160
SNP_P4_93567_11697602	NC_021166.1	Ca_kabuli_chr07	11697602	AA	CC	1946884162
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SNP_P4_93570_11747097	NC_021166.1	Ca_kabuli_chr07	11747097	CC	TT	1946884167
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SNP_P4_93572_11756139	NC_021166.1	Ca_kabuli_chr07	11756139	CC	AA	1946884171
SNP_P4_93573_11807278	NC_021166.1	Ca_kabuli_chr07	11807278	AA	TT	1946884173
SNP_P4_93574_11820201	NC_021166.1	Ca_kabuli_chr07	11820201	TT	GG	1946884175
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SNP_P4_93576_11835666	NC_021166.1	Ca_kabuli_chr07	11835666	TT	AA	1946884179
SNP_P4_93577_11870668	NC_021166.1	Ca_kabuli_chr07	11870668	CC	TT	1946884181
SNP_P4_93578_11895919	NC_021166.1	Ca_kabuli_chr07	11895919	GG	AA	1946884183
SNP_P4_93579_11901770	NC_021166.1	Ca_kabuli_chr07	11901770	AA	TT	1946884185
SNP_P4_93580_11901771	NC_021166.1	Ca_kabuli_chr07	11901771	AA	TT	1946884188
SNP_P4_93581_11922953	NC_021166.1	Ca_kabuli_chr07	11922953	AA	CC	1946884190
SNP_P4_93582_11922968	NC_021166.1	Ca_kabuli_chr07	11922968	AA	TT	1946884192
SNP_P4_93583_11927651	NC_021166.1	Ca_kabuli_chr07	11927651	AA	CC	1946884194
SNP_P4_93584_11943706	NC_021166.1	Ca_kabuli_chr07	11943706	AA	GG	1946884196
SNP_P4_93586_11967553	NC_021166.1	Ca_kabuli_chr07	11967553	GG	AA	1946884198
SNP_P4_93588_12001822	NC_021166.1	Ca_kabuli_chr07	12001822	AA	GG	1946884200

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_93592_12008423	NC_021166.1	Ca_kabuli_chr07	12008423	CC	TT	1946884207
SNP_P4_93593_12008424	NC_021166.1	Ca_kabuli_chr07	12008424	AA	TT	1946884209
SNP_P4_93594_12008719	NC_021166.1	Ca_kabuli_chr07	12008719	GG	AA	1946884211
SNP_P4_93595_12009385	NC_021166.1	Ca_kabuli_chr07	12009385	CC	TT	1946884213
SNP_P4_93597_12010567	NC_021166.1	Ca_kabuli_chr07	12010567	TT	CC	1946884215
SNP_P4_93599_12072083	NC_021166.1	Ca_kabuli_chr07	12072083	AA	TT	1946884217
SNP_P4_93601_12085518	NC_021166.1	Ca_kabuli_chr07	12085518	AA	CC	1946884220
SNP_P4_93602_12103954	NC_021166.1	Ca_kabuli_chr07	12103954	CC	TT	1946884222
SNP_P4_93603_12124109	NC_021166.1	Ca_kabuli_chr07	12124109	CC	TT	1946884224
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SNP_P4_93605_12163905	NC_021166.1	Ca_kabuli_chr07	12163905	GG	AA	1946884228
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SNP_P4_93607_12181441	NC_021166.1	Ca_kabuli_chr07	12181441	AA	TT	1946884232
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SNP_P4_93609_12181469	NC_021166.1	Ca_kabuli_chr07	12181469	CC	TT	1946884236
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SNP_P4_93614_12257745	NC_021166.1	Ca_kabuli_chr07	12257745	AA	GG	1946884242
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SNP_P4_93619_12359391	NC_021166.1	Ca_kabuli_chr07	12359391	AA	TT	1946884246
SNP_P4_93621_12396253	NC_021166.1	Ca_kabuli_chr07	12396253	GG	AA	1946884248
SNP_P4_93622_12413433	NC_021166.1	Ca_kabuli_chr07	12413433	TT	GG	1946884250
SNP_P4_93624_12441532	NC_021166.1	Ca_kabuli_chr07	12441532	GG	TT	1946884252
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SNP_P4_93630_12483290	NC_021166.1	Ca_kabuli_chr07	12483290	AA	CC	1946884256
SNP_P4_93631_12483328	NC_021166.1	Ca_kabuli_chr07	12483328	AA	GG	1946884258
SNP_P4_93632_12483348	NC_021166.1	Ca_kabuli_chr07	12483348	AA	GG	1946884260
SNP_P4_93633_12483357	NC_021166.1	Ca_kabuli_chr07	12483357	AA	CC	1946884262
SNP_P4_93634_12483399	NC_021166.1	Ca_kabuli_chr07	12483399	GG	TT	1946884264
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SNP_P4_93637_12489767	NC_021166.1	Ca_kabuli_chr07	12489767	TT	AA	1946884269
SNP_P4_93638_12489772	NC_021166.1	Ca_kabuli_chr07	12489772	CC	TT	1946884271
SNP_P4_93639_12500404	NC_021166.1	Ca_kabuli_chr07	12500404	CC	AA	1946884273
SNP_P4_93640_12502260	NC_021166.1	Ca_kabuli_chr07	12502260	AA	GG	1946884275
SNP_P4_93642_12509561	NC_021166.1	Ca_kabuli_chr07	12509561	AA	CC	1946884277
SNP_P4_93643_12535151	NC_021166.1	Ca_kabuli_chr07	12535151	CC	TT	1946884279
SNP_P4_93645_12540025	NC_021166.1	Ca_kabuli_chr07	12540025	AA	GG	1946884281
SNP_P4_93646_12540152	NC_021166.1	Ca_kabuli_chr07	12540152	TT	CC	1946884283
SNP_P4_93647_12555919	NC_021166.1	Ca_kabuli_chr07	12555919	CC	TT	1946884285
SNP_P4_93648_12571529	NC_021166.1	Ca_kabuli_chr07	12571529	TT	GG	1946884287

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SNP_P4_93650_12575800	NC_021166.1	Ca_kabuli_chr07	12575800	CC	TT	1946884291
SNP_P4_93651_12575886	NC_021166.1	Ca_kabuli_chr07	12575886	TT	AA	1946884294
SNP_P4_93652_12576060	NC_021166.1	Ca_kabuli_chr07	12576060	CC	TT	1946884296
SNP_P4_93653_12576088	NC_021166.1	Ca_kabuli_chr07	12576088	TT	GG	1946884298
SNP_P4_93655_12581108	NC_021166.1	Ca_kabuli_chr07	12581108	TT	AA	1946884300
SNP_P4_93657_12611962	NC_021166.1	Ca_kabuli_chr07	12611962	TT	CC	1946884302
SNP_P4_93658_12645719	NC_021166.1	Ca_kabuli_chr07	12645719	TT	CC	1946884305
SNP_P4_93660_12655043	NC_021166.1	Ca_kabuli_chr07	12655043	GG	AA	1946884307
SNP_P4_93661_12680537	NC_021166.1	Ca_kabuli_chr07	12680537	GG	CC	1946884309
SNP_P4_93663_12695579	NC_021166.1	Ca_kabuli_chr07	12695579	CC	TT	1946884311
SNP_P4_93664_12702193	NC_021166.1	Ca_kabuli_chr07	12702193	AA	TT	1946884313
SNP_P4_93666_12760875	NC_021166.1	Ca_kabuli_chr07	12760875	GG	AA	1946884315
SNP_P4_93667_12760912	NC_021166.1	Ca_kabuli_chr07	12760912	GG	AA	1946884317
SNP_P4_93668_12797448	NC_021166.1	Ca_kabuli_chr07	12797448	TT	CC	1946884319
SNP_P4_93669_12799955	NC_021166.1	Ca_kabuli_chr07	12799955	TT	AA	1946884321
SNP_P4_93670_12813936	NC_021166.1	Ca_kabuli_chr07	12813936	AA	GG	1946884323
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SNP_P4_93673_12822513	NC_021166.1	Ca_kabuli_chr07	12822513	TT	CC	1946884329
SNP_P4_93674_12822514	NC_021166.1	Ca_kabuli_chr07	12822514	TT	AA	1946884331
SNP_P4_93675_12837794	NC_021166.1	Ca_kabuli_chr07	12837794	AA	CC	1946884333
SNP_P4_93676_12846027	NC_021166.1	Ca_kabuli_chr07	12846027	AA	TT	1946884335
SNP_P4_93677_12853075	NC_021166.1	Ca_kabuli_chr07	12853075	AA	GG	1946884337
SNP_P4_93679_12857900	NC_021166.1	Ca_kabuli_chr07	12857900	TT	CC	1946884339
SNP_P4_93680_12861030	NC_021166.1	Ca_kabuli_chr07	12861030	GG	TT	1946884341
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SNP_P4_93682_12890883	NC_021166.1	Ca_kabuli_chr07	12890883	AA	GG	1946884345
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SNP_P4_93685_12925199	NC_021166.1	Ca_kabuli_chr07	12925199	CC	TT	1946884350
SNP_P4_93687_13008729	NC_021166.1	Ca_kabuli_chr07	13008729	AA	GG	1946884352
SNP_P4_93688_13030133	NC_021166.1	Ca_kabuli_chr07	13030133	CC	TT	1946884354
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SNP_P4_93690_13053150	NC_021166.1	Ca_kabuli_chr07	13053150	GG	CC	1946884358
SNP_P4_93691_13056875	NC_021166.1	Ca_kabuli_chr07	13056875	CC	TT	1946884360
SNP_P4_93693_13110848	NC_021166.1	Ca_kabuli_chr07	13110848	TT	CC	1946884362
SNP_P4_93694_13116391	NC_021166.1	Ca_kabuli_chr07	13116391	AA	CC	1946884364
SNP_P4_93695_13138094	NC_021166.1	Ca_kabuli_chr07	13138094	TT	CC	1946884366
SNP_P4_93696_13140733	NC_021166.1	Ca_kabuli_chr07	13140733	CC	GG	1946884368
SNP_P4_93697_13141596	NC_021166.1	Ca_kabuli_chr07	13141596	TT	CC	1946884370
SNP_P4_93698_13162366	NC_021166.1	Ca_kabuli_chr07	13162366	GG	CC	1946884372
SNP_P4_93699_13181530	NC_021166.1	Ca_kabuli_chr07	13181530	CC	TT	1946884374

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_93702_13202447	NC_021166.1	Ca_kabuli_chr07	13202447	GG	AA	1946884378
SNP_P4_93703_13219271	NC_021166.1	Ca_kabuli_chr07	13219271	GG	AA	1946884380
SNP_P4_93704_13282571	NC_021166.1	Ca_kabuli_chr07	13282571	TT	CC	1946884382
SNP_P4_93705_13292200	NC_021166.1	Ca_kabuli_chr07	13292200	TT	GG	1946884384
SNP_P4_93706_13292213	NC_021166.1	Ca_kabuli_chr07	13292213	CC	TT	1946884386
SNP_P4_93707_13292394	NC_021166.1	Ca_kabuli_chr07	13292394	AA	TT	1946884388
SNP_P4_93708_13292597	NC_021166.1	Ca_kabuli_chr07	13292597	TT	CC	1946884390
SNP_P4_93710_13350040	NC_021166.1	Ca_kabuli_chr07	13350040	TT	CC	1946884393
SNP_P4_93711_13350041	NC_021166.1	Ca_kabuli_chr07	13350041	TT	GG	1946884395
SNP_P4_93712_13354990	NC_021166.1	Ca_kabuli_chr07	13354990	AA	TT	1946884397
SNP_P4_93714_13408751	NC_021166.1	Ca_kabuli_chr07	13408751	AA	CC	1946884399
SNP_P4_93715_13473792	NC_021166.1	Ca_kabuli_chr07	13473792	TT	CC	1946884401
SNP_P4_93716_13474074	NC_021166.1	Ca_kabuli_chr07	13474074	AA	GG	1946884403
SNP_P4_93718_13476725	NC_021166.1	Ca_kabuli_chr07	13476725	AA	GG	1946884405
SNP_P4_93719_13476745	NC_021166.1	Ca_kabuli_chr07	13476745	CC	AA	1946884407
SNP_P4_93720_13476762	NC_021166.1	Ca_kabuli_chr07	13476762	CC	TT	1946884409
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SNP_P4_93723_13485411	NC_021166.1	Ca_kabuli_chr07	13485411	TT	CC	1946884415
SNP_P4_93724_13494827	NC_021166.1	Ca_kabuli_chr07	13494827	AA	CC	1946884417
SNP_P4_93725_13501493	NC_021166.1	Ca_kabuli_chr07	13501493	CC	AA	1946884419
SNP_P4_93726_13504367	NC_021166.1	Ca_kabuli_chr07	13504367	TT	CC	1946884421
SNP_P4_93727_13510479	NC_021166.1	Ca_kabuli_chr07	13510479	AA	GG	1946884423
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SNP_P4_93730_13533020	NC_021166.1	Ca_kabuli_chr07	13533020	TT	AA	1946884427
SNP_P4_93731_13533021	NC_021166.1	Ca_kabuli_chr07	13533021	AA	TT	1946884429
SNP_P4_93732_13533248	NC_021166.1	Ca_kabuli_chr07	13533248	AA	GG	1946884431
SNP_P4_93733_13533316	NC_021166.1	Ca_kabuli_chr07	13533316	GG	AA	1946884433
SNP_P4_93734_13533423	NC_021166.1	Ca_kabuli_chr07	13533423	TT	AA	1946884435
SNP_P4_93735_13551467	NC_021166.1	Ca_kabuli_chr07	13551467	CC	TT	1946884437
SNP_P4_93737_13556146	NC_021166.1	Ca_kabuli_chr07	13556146	GG	AA	1946884439
SNP_P4_93738_13556607	NC_021166.1	Ca_kabuli_chr07	13556607	AA	GG	1946884441
SNP_P4_93739_13558955	NC_021166.1	Ca_kabuli_chr07	13558955	GG	AA	1946884443
SNP_P4_93740_13559134	NC_021166.1	Ca_kabuli_chr07	13559134	TT	CC	1946884446
SNP_P4_93741_13559164	NC_021166.1	Ca_kabuli_chr07	13559164	TT	CC	1946884448
SNP_P4_93743_13559317	NC_021166.1	Ca_kabuli_chr07	13559317	CC	TT	1946884450
SNP_P4_93744_13559321	NC_021166.1	Ca_kabuli_chr07	13559321	CC	TT	1946884452
SNP_P4_93745_13560585	NC_021166.1	Ca_kabuli_chr07	13560585	AA	TT	1946884454
SNP_P4_93746_13567440	NC_021166.1	Ca_kabuli_chr07	13567440	AA	TT	1946884456
SNP_P4_93747_13569924	NC_021166.1	Ca_kabuli_chr07	13569924	TT	CC	1946884458
SNP_P4_93748_13569968	NC_021166.1	Ca_kabuli_chr07	13569968	CC	TT	1946884460

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_93751_13585348	NC_021166.1	Ca_kabuli_chr07	13585348	GG	AA	1946884466
SNP_P4_93752_13587693	NC_021166.1	Ca_kabuli_chr07	13587693	CC	TT	1946884468
SNP_P4_93754_13587716	NC_021166.1	Ca_kabuli_chr07	13587716	AA	GG	1946884470
SNP_P4_93755_13588041	NC_021166.1	Ca_kabuli_chr07	13588041	TT	CC	1946884472
SNP_P4_93756_13588945	NC_021166.1	Ca_kabuli_chr07	13588945	GG	AA	1946884474
SNP_P4_93758_13592818	NC_021166.1	Ca_kabuli_chr07	13592818	CC	TT	1946884476
SNP_P4_93760_13610022	NC_021166.1	Ca_kabuli_chr07	13610022	CC	GG	1946884478
SNP_P4_93761_13617578	NC_021166.1	Ca_kabuli_chr07	13617578	AA	TT	1946884480
SNP_P4_93762_13619076	NC_021166.1	Ca_kabuli_chr07	13619076	TT	GG	1946884482
SNP_P4_93763_13631303	NC_021166.1	Ca_kabuli_chr07	13631303	GG	AA	1946884484
SNP_P4_93764_13647767	NC_021166.1	Ca_kabuli_chr07	13647767	TT	AA	1946884486
SNP_P4_93765_13647794	NC_021166.1	Ca_kabuli_chr07	13647794	AA	GG	1946884488
SNP_P4_93766_13648345	NC_021166.1	Ca_kabuli_chr07	13648345	AA	GG	1946884490
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SNP_P4_93768_13657390	NC_021166.1	Ca_kabuli_chr07	13657390	CC	GG	1946884494
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SNP_P4_93787_13905107	NC_021166.1	Ca_kabuli_chr07	13905107	CC	TT	1946884522
SNP_P4_93788_13910790	NC_021166.1	Ca_kabuli_chr07	13910790	TT	GG	1946884524
SNP_P4_93791_13995161	NC_021166.1	Ca_kabuli_chr07	13995161	GG	AA	1946884527
SNP_P4_93792_13995868	NC_021166.1	Ca_kabuli_chr07	13995868	TT	CC	1946884529
SNP_P4_93793_13997813	NC_021166.1	Ca_kabuli_chr07	13997813	CC	TT	1946884531
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SNP_P4_93795_14012607	NC_021166.1	Ca_kabuli_chr07	14012607	CC	AA	1946884535
SNP_P4_93796_14016177	NC_021166.1	Ca_kabuli_chr07	14016177	TT	AA	1946884537
SNP_P4_93797_14022362	NC_021166.1	Ca_kabuli_chr07	14022362	TT	CC	1946884539
SNP_P4_93798_14028626	NC_021166.1	Ca_kabuli_chr07	14028626	AA	CC	1946884541
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SNP_P4_93800_14053021	NC_021166.1	Ca_kabuli_chr07	14053021	TT	CC	1946884545

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_93802_14062251	NC_021166.1	Ca_kabuli_chr07	14062251	GG	TT	1946884549
SNP_P4_93803_14066111	NC_021166.1	Ca_kabuli_chr07	14066111	TT	AA	1946884551
SNP_P4_93806_14071991	NC_021166.1	Ca_kabuli_chr07	14071991	CC	TT	1946884553
SNP_P4_93807_14072742	NC_021166.1	Ca_kabuli_chr07	14072742	AA	GG	1946884555
SNP_P4_93808_14073197	NC_021166.1	Ca_kabuli_chr07	14073197	TT	GG	1946884557
SNP_P4_93810_14081225	NC_021166.1	Ca_kabuli_chr07	14081225	CC	TT	1946884559
SNP_P4_93811_14081273	NC_021166.1	Ca_kabuli_chr07	14081273	AA	GG	1946884561
SNP_P4_93812_14083319	NC_021166.1	Ca_kabuli_chr07	14083319	TT	CC	1946884563
SNP_P4_93813_14083369	NC_021166.1	Ca_kabuli_chr07	14083369	TT	CC	1946884565
SNP_P4_93815_14083444	NC_021166.1	Ca_kabuli_chr07	14083444	AA	TT	1946884567
SNP_P4_93816_14083843	NC_021166.1	Ca_kabuli_chr07	14083843	AA	GG	1946884569
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SNP_P4_93818_14089222	NC_021166.1	Ca_kabuli_chr07	14089222	GG	AA	1946884573
SNP_P4_93819_14089667	NC_021166.1	Ca_kabuli_chr07	14089667	TT	AA	1946884575
SNP_P4_93820_14091426	NC_021166.1	Ca_kabuli_chr07	14091426	AA	CC	1946884577
SNP_P4_93821_14091733	NC_021166.1	Ca_kabuli_chr07	14091733	GG	AA	1946884579
SNP_P4_93822_14091820	NC_021166.1	Ca_kabuli_chr07	14091820	AA	TT	1946884581
SNP_P4_93823_14094779	NC_021166.1	Ca_kabuli_chr07	14094779	AA	CC	1946884583
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SNP_P4_93825_14110463	NC_021166.1	Ca_kabuli_chr07	14110463	GG	TT	1946884587
SNP_P4_93826_14138444	NC_021166.1	Ca_kabuli_chr07	14138444	TT	CC	1946884589
SNP_P4_93827_14140631	NC_021166.1	Ca_kabuli_chr07	14140631	TT	CC	1946884591
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SNP_P4_93830_14217958	NC_021166.1	Ca_kabuli_chr07	14217958	TT	GG	1946884597
SNP_P4_93831_14217960	NC_021166.1	Ca_kabuli_chr07	14217960	GG	AA	1946884599
SNP_P4_93832_14228098	NC_021166.1	Ca_kabuli_chr07	14228098	GG	TT	1946884601
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SNP_P4_93835_14256039	NC_021166.1	Ca_kabuli_chr07	14256039	AA	TT	1946884605
SNP_P4_93836_14260178	NC_021166.1	Ca_kabuli_chr07	14260178	CC	TT	1946884607
SNP_P4_93837_14270815	NC_021166.1	Ca_kabuli_chr07	14270815	TT	GG	1946884609
SNP_P4_93838_14270840	NC_021166.1	Ca_kabuli_chr07	14270840	AA	GG	1946884611
SNP_P4_93839_14270853	NC_021166.1	Ca_kabuli_chr07	14270853	AA	GG	1946884613
SNP_P4_93840_14270903	NC_021166.1	Ca_kabuli_chr07	14270903	GG	AA	1946884615
SNP_P4_93841_14270911	NC_021166.1	Ca_kabuli_chr07	14270911	GG	AA	1946884617
SNP_P4_93842_14272502	NC_021166.1	Ca_kabuli_chr07	14272502	AA	GG	1946884619
SNP_P4_93843_14369772	NC_021166.1	Ca_kabuli_chr07	14369772	TT	AA	1946884621
SNP_P4_93844_14370003	NC_021166.1	Ca_kabuli_chr07	14370003	TT	CC	1946884624
SNP_P4_93845_14370038	NC_021166.1	Ca_kabuli_chr07	14370038	CC	TT	1946884626
SNP_P4_93846_14370990	NC_021166.1	Ca_kabuli_chr07	14370990	CC	TT	1946884628
SNP_P4_93847_14371073	NC_021166.1	Ca_kabuli_chr07	14371073	TT	CC	1946884630

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_93848_14371279	NC_021166.1	Ca_kabuli_chr07	14371279	TT	CC	1946884632
SNP_P4_93849_14371444	NC_021166.1	Ca_kabuli_chr07	14371444	AA	CC	1946884634
SNP_P4_93850_14371480	NC_021166.1	Ca_kabuli_chr07	14371480	AA	GG	1946884636
SNP_P4_93851_14380841	NC_021166.1	Ca_kabuli_chr07	14380841	GG	CC	1946884638
SNP_P4_93852_14383264	NC_021166.1	Ca_kabuli_chr07	14383264	AA	CC	1946884640
SNP_P4_93853_14393089	NC_021166.1	Ca_kabuli_chr07	14393089	GG	AA	1946884642
SNP_P4_93855_14404670	NC_021166.1	Ca_kabuli_chr07	14404670	CC	TT	1946884644
SNP_P4_93856_14435616	NC_021166.1	Ca_kabuli_chr07	14435616	TT	CC	1946884646
SNP_P4_93859_14459732	NC_021166.1	Ca_kabuli_chr07	14459732	CC	AA	1946884648
SNP_P4_93860_14475812	NC_021166.1	Ca_kabuli_chr07	14475812	GG	AA	1946884650
SNP_P4_93862_14497340	NC_021166.1	Ca_kabuli_chr07	14497340	CC	TT	1946884652
SNP_P4_93863_14499952	NC_021166.1	Ca_kabuli_chr07	14499952	CC	TT	1946884654
SNP_P4_93864_14499982	NC_021166.1	Ca_kabuli_chr07	14499982	TT	CC	1946884656
SNP_P4_93865_14515040	NC_021166.1	Ca_kabuli_chr07	14515040	AA	GG	1946884658
SNP_P4_93867_14582649	NC_021166.1	Ca_kabuli_chr07	14582649	TT	GG	1946884660
SNP_P4_93868_14585588	NC_021166.1	Ca_kabuli_chr07	14585588	GG	TT	1946884662
SNP_P4_93869_14585851	NC_021166.1	Ca_kabuli_chr07	14585851	CC	AA	1946884664
SNP_P4_93870_14603555	NC_021166.1	Ca_kabuli_chr07	14603555	GG	AA	1946884666
SNP_P4_93871_14632310	NC_021166.1	Ca_kabuli_chr07	14632310	TT	AA	1946884668
SNP_P4_93872_14650995	NC_021166.1	Ca_kabuli_chr07	14650995	GG	AA	1946884670
SNP_P4_93873_14653921	NC_021166.1	Ca_kabuli_chr07	14653921	CC	AA	1946884672
SNP_P4_93877_14688907	NC_021166.1	Ca_kabuli_chr07	14688907	TT	GG	1946884674
SNP_P4_93878_14692963	NC_021166.1	Ca_kabuli_chr07	14692963	GG	CC	1946884676
SNP_P4_93879_14724501	NC_021166.1	Ca_kabuli_chr07	14724501	TT	AA	1946884678
SNP_P4_93880_14725591	NC_021166.1	Ca_kabuli_chr07	14725591	CC	TT	1946884680
SNP_P4_93881_14737215	NC_021166.1	Ca_kabuli_chr07	14737215	CC	TT	1946884682
SNP_P4_93882_14754789	NC_021166.1	Ca_kabuli_chr07	14754789	GG	AA	1946884684
SNP_P4_93883_14768625	NC_021166.1	Ca_kabuli_chr07	14768625	AA	GG	1946884686
SNP_P4_93884_14784055	NC_021166.1	Ca_kabuli_chr07	14784055	GG	AA	1946884688
SNP_P4_93885_14806758	NC_021166.1	Ca_kabuli_chr07	14806758	AA	GG	1946884690
SNP_P4_93886_14806767	NC_021166.1	Ca_kabuli_chr07	14806767	CC	TT	1946884692
SNP_P4_93887_14806792	NC_021166.1	Ca_kabuli_chr07	14806792	GG	TT	1946884694
SNP_P4_93888_14811699	NC_021166.1	Ca_kabuli_chr07	14811699	AA	GG	1946884696
SNP_P4_93889_14811732	NC_021166.1	Ca_kabuli_chr07	14811732	TT	CC	1946884698
SNP_P4_93890_14816408	NC_021166.1	Ca_kabuli_chr07	14816408	AA	TT	1946884700
SNP_P4_93891_14821267	NC_021166.1	Ca_kabuli_chr07	14821267	CC	TT	1946884702
SNP_P4_93892_14821293	NC_021166.1	Ca_kabuli_chr07	14821293	AA	GG	1946884704
SNP_P4_93893_14830701	NC_021166.1	Ca_kabuli_chr07	14830701	AA	TT	1946884706
SNP_P4_93895_14858045	NC_021166.1	Ca_kabuli_chr07	14858045	AA	TT	1946884708
SNP_P4_93896_14866953	NC_021166.1	Ca_kabuli_chr07	14866953	TT	CC	1946884710
SNP_P4_93897_14881323	NC_021166.1	Ca_kabuli_chr07	14881323	CC	AA	1946884712
SNP_P4_93898_14882085	NC_021166.1	Ca_kabuli_chr07	14882085	CC	TT	1946884714

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_93902_14905373	NC_021166.1	Ca_kabuli_chr07	14905373	AA	TT	1946884718
SNP_P4_93903_14924991	NC_021166.1	Ca_kabuli_chr07	14924991	TT	CC	1946884720
SNP_P4_93904_14966046	NC_021166.1	Ca_kabuli_chr07	14966046	AA	TT	1946884722
SNP_P4_93905_14968180	NC_021166.1	Ca_kabuli_chr07	14968180	GG	AA	1946884724
SNP_P4_93906_14988950	NC_021166.1	Ca_kabuli_chr07	14988950	AA	GG	1946884726
SNP_P4_93907_15005847	NC_021166.1	Ca_kabuli_chr07	15005847	AA	GG	1946884728
SNP_P4_93908_15012255	NC_021166.1	Ca_kabuli_chr07	15012255	TT	AA	1946884730
SNP_P4_93909_15012256	NC_021166.1	Ca_kabuli_chr07	15012256	CC	AA	1946884732
SNP_P4_93910_15037194	NC_021166.1	Ca_kabuli_chr07	15037194	GG	AA	1946884734
SNP_P4_93911_15037628	NC_021166.1	Ca_kabuli_chr07	15037628	AA	GG	1946884736
SNP_P4_93912_15037796	NC_021166.1	Ca_kabuli_chr07	15037796	AA	CC	1946884738
SNP_P4_93913_15037814	NC_021166.1	Ca_kabuli_chr07	15037814	AA	GG	1946884740
SNP_P4_93914_15037821	NC_021166.1	Ca_kabuli_chr07	15037821	CC	TT	1946884742
SNP_P4_93915_15060399	NC_021166.1	Ca_kabuli_chr07	15060399	CC	TT	1946884744
SNP_P4_93917_15060733	NC_021166.1	Ca_kabuli_chr07	15060733	TT	CC	1946884746
SNP_P4_93918_15060735	NC_021166.1	Ca_kabuli_chr07	15060735	TT	CC	1946884748
SNP_P4_93919_15060806	NC_021166.1	Ca_kabuli_chr07	15060806	AA	GG	1946884750
SNP_P4_93920_15060840	NC_021166.1	Ca_kabuli_chr07	15060840	TT	CC	1946884752
SNP_P4_93921_15069071	NC_021166.1	Ca_kabuli_chr07	15069071	GG	TT	1946884754
SNP_P4_93922_15071515	NC_021166.1	Ca_kabuli_chr07	15071515	AA	GG	1946884756
SNP_P4_93923_15071533	NC_021166.1	Ca_kabuli_chr07	15071533	AA	GG	1946884758
SNP_P4_93924_15071730	NC_021166.1	Ca_kabuli_chr07	15071730	TT	GG	1946884760
SNP_P4_93925_15071751	NC_021166.1	Ca_kabuli_chr07	15071751	CC	TT	1946884762
SNP_P4_93926_15092169	NC_021166.1	Ca_kabuli_chr07	15092169	TT	CC	1946884764
SNP_P4_93927_15140920	NC_021166.1	Ca_kabuli_chr07	15140920	GG	AA	1946884766
SNP_P4_93928_15168191	NC_021166.1	Ca_kabuli_chr07	15168191	GG	AA	1946884768
SNP_P4_93929_15175393	NC_021166.1	Ca_kabuli_chr07	15175393	TT	GG	1946884770
SNP_P4_93930_15176435	NC_021166.1	Ca_kabuli_chr07	15176435	TT	GG	1946884772
SNP_P4_93931_15176436	NC_021166.1	Ca_kabuli_chr07	15176436	TT	AA	1946884774
SNP_P4_93933_15226708	NC_021166.1	Ca_kabuli_chr07	15226708	TT	CC	1946884776
SNP_P4_93934_15245946	NC_021166.1	Ca_kabuli_chr07	15245946	AA	GG	1946884778
SNP_P4_93935_15258892	NC_021166.1	Ca_kabuli_chr07	15258892	GG	AA	1946884780
SNP_P4_93936_15278316	NC_021166.1	Ca_kabuli_chr07	15278316	GG	AA	1946884782
SNP_P4_93937_15278334	NC_021166.1	Ca_kabuli_chr07	15278334	CC	TT	1946884784
SNP_P4_93938_15278355	NC_021166.1	Ca_kabuli_chr07	15278355	AA	GG	1946884786
SNP_P4_93939_15278397	NC_021166.1	Ca_kabuli_chr07	15278397	AA	GG	1946884788
SNP_P4_93940_15278407	NC_021166.1	Ca_kabuli_chr07	15278407	GG	TT	1946884791
SNP_P4_93941_15279727	NC_021166.1	Ca_kabuli_chr07	15279727	CC	GG	1946884793
SNP_P4_93942_15289598	NC_021166.1	Ca_kabuli_chr07	15289598	GG	AA	1946884795
SNP_P4_93943_15292766	NC_021166.1	Ca_kabuli_chr07	15292766	AA	CC	1946884797
SNP_P4_93944_15296440	NC_021166.1	Ca_kabuli_chr07	15296440	AA	GG	1946884799

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_93946_15303037	NC_021166.1	Ca_kabuli_chr07	15303037	TT	CC	1946884803
SNP_P4_93947_15303058	NC_021166.1	Ca_kabuli_chr07	15303058	TT	CC	1946884805
SNP_P4_93948_15304957	NC_021166.1	Ca_kabuli_chr07	15304957	AA	GG	1946884806
SNP_P4_93949_15305091	NC_021166.1	Ca_kabuli_chr07	15305091	TT	GG	1946884808
SNP_P4_93950_15305116	NC_021166.1	Ca_kabuli_chr07	15305116	AA	GG	1946884810
SNP_P4_93951_15305126	NC_021166.1	Ca_kabuli_chr07	15305126	AA	GG	1946884812
SNP_P4_93952_15305140	NC_021166.1	Ca_kabuli_chr07	15305140	TT	CC	1946884814
SNP_P4_93953_15305188	NC_021166.1	Ca_kabuli_chr07	15305188	CC	TT	1946884816
SNP_P4_93955_15305202	NC_021166.1	Ca_kabuli_chr07	15305202	CC	TT	1946884818
SNP_P4_93956_15305213	NC_021166.1	Ca_kabuli_chr07	15305213	CC	AA	1946884820
SNP_P4_93957_15313236	NC_021166.1	Ca_kabuli_chr07	15313236	TT	CC	1946884822
SNP_P4_93958_15325389	NC_021166.1	Ca_kabuli_chr07	15325389	AA	GG	1946884824
SNP_P4_93959_15325568	NC_021166.1	Ca_kabuli_chr07	15325568	AA	GG	1946884826
SNP_P4_93960_15325858	NC_021166.1	Ca_kabuli_chr07	15325858	GG	AA	1946884828
SNP_P4_93962_15325879	NC_021166.1	Ca_kabuli_chr07	15325879	TT	AA	1946884830
SNP_P4_93963_15325894	NC_021166.1	Ca_kabuli_chr07	15325894	AA	GG	1946884832
SNP_P4_93964_15325907	NC_021166.1	Ca_kabuli_chr07	15325907	CC	TT	1946884834
SNP_P4_93965_15325909	NC_021166.1	Ca_kabuli_chr07	15325909	TT	GG	1946884836
SNP_P4_93966_15325913	NC_021166.1	Ca_kabuli_chr07	15325913	AA	GG	1946884838
SNP_P4_93967_15325918	NC_021166.1	Ca_kabuli_chr07	15325918	AA	GG	1946884839
SNP_P4_93968_15325921	NC_021166.1	Ca_kabuli_chr07	15325921	AA	GG	1946884840
SNP_P4_93969_15325933	NC_021166.1	Ca_kabuli_chr07	15325933	TT	CC	1946884841
SNP_P4_93970_15327958	NC_021166.1	Ca_kabuli_chr07	15327958	CC	GG	1946884842
SNP_P4_93972_15328844	NC_021166.1	Ca_kabuli_chr07	15328844	TT	CC	1946884843
SNP_P4_93973_15341094	NC_021166.1	Ca_kabuli_chr07	15341094	CC	AA	1946884845
SNP_P4_93974_15341716	NC_021166.1	Ca_kabuli_chr07	15341716	AA	GG	1946884847
SNP_P4_93975_15341717	NC_021166.1	Ca_kabuli_chr07	15341717	GG	TT	1946884849
SNP_P4_93976_15425146	NC_021166.1	Ca_kabuli_chr07	15425146	AA	CC	1946884851
SNP_P4_93977_15425478	NC_021166.1	Ca_kabuli_chr07	15425478	TT	CC	1946884853
SNP_P4_93978_15425567	NC_021166.1	Ca_kabuli_chr07	15425567	TT	GG	1946884855
SNP_P4_93979_15425586	NC_021166.1	Ca_kabuli_chr07	15425586	AA	GG	1946884857
SNP_P4_93980_15461551	NC_021166.1	Ca_kabuli_chr07	15461551	CC	TT	1946884859
SNP_P4_93981_15463343	NC_021166.1	Ca_kabuli_chr07	15463343	GG	AA	1946884861
SNP_P4_93983_15487963	NC_021166.1	Ca_kabuli_chr07	15487963	GG	CC	1946884863
SNP_P4_93984_15487979	NC_021166.1	Ca_kabuli_chr07	15487979	TT	GG	1946884865
SNP_P4_93985_15488424	NC_021166.1	Ca_kabuli_chr07	15488424	GG	AA	1946884867
SNP_P4_93986_15488426	NC_021166.1	Ca_kabuli_chr07	15488426	CC	TT	1946884869
SNP_P4_93987_15488445	NC_021166.1	Ca_kabuli_chr07	15488445	GG	AA	1946884871
SNP_P4_93988_15488533	NC_021166.1	Ca_kabuli_chr07	15488533	GG	AA	1946884873
SNP_P4_93989_15488789	NC_021166.1	Ca_kabuli_chr07	15488789	AA	GG	1946884875
SNP_P4_93990_15488791	NC_021166.1	Ca_kabuli_chr07	15488791	GG	AA	1946884877

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_93992_15488875	NC_021166.1	Ca_kabuli_chr07	15488875	AA	TT	1946884881
SNP_P4_93993_15495383	NC_021166.1	Ca_kabuli_chr07	15495383	GG	AA	1946884883
SNP_P4_93995_15509029	NC_021166.1	Ca_kabuli_chr07	15509029	GG	CC	1946884885
SNP_P4_93996_15516097	NC_021166.1	Ca_kabuli_chr07	15516097	TT	CC	1946884887
SNP_P4_93997_15520942	NC_021166.1	Ca_kabuli_chr07	15520942	TT	CC	1946884889
SNP_P4_93998_15521031	NC_021166.1	Ca_kabuli_chr07	15521031	AA	GG	1946884891
SNP_P4_93999_15521043	NC_021166.1	Ca_kabuli_chr07	15521043	TT	CC	1946884893
SNP_P4_94000_15521137	NC_021166.1	Ca_kabuli_chr07	15521137	CC	TT	1946884895
SNP_P4_94001_15521191	NC_021166.1	Ca_kabuli_chr07	15521191	TT	CC	1946884897
SNP_P4_94002_15521198	NC_021166.1	Ca_kabuli_chr07	15521198	GG	CC	1946884899
SNP_P4_94003_15521208	NC_021166.1	Ca_kabuli_chr07	15521208	TT	CC	1946884901
SNP_P4_94004_15521224	NC_021166.1	Ca_kabuli_chr07	15521224	AA	GG	1946884903
SNP_P4_94005_15521256	NC_021166.1	Ca_kabuli_chr07	15521256	AA	GG	1946884905
SNP_P4_94007_15573013	NC_021166.1	Ca_kabuli_chr07	15573013	AA	CC	1946884908
SNP_P4_94008_15580193	NC_021166.1	Ca_kabuli_chr07	15580193	TT	CC	1946884910
SNP_P4_94009_15594725	NC_021166.1	Ca_kabuli_chr07	15594725	TT	GG	1946884912
SNP_P4_94010_15597773	NC_021166.1	Ca_kabuli_chr07	15597773	TT	AA	1946884914
SNP_P4_94011_15605567	NC_021166.1	Ca_kabuli_chr07	15605567	CC	TT	1946884916
SNP_P4_94012_15613420	NC_021166.1	Ca_kabuli_chr07	15613420	TT	CC	1946884918
SNP_P4_94013_15626861	NC_021166.1	Ca_kabuli_chr07	15626861	CC	TT	1946884920
SNP_P4_94015_15646067	NC_021166.1	Ca_kabuli_chr07	15646067	AA	GG	1946884922
SNP_P4_94016_15646092	NC_021166.1	Ca_kabuli_chr07	15646092	CC	TT	1946884924
SNP_P4_94017_15646109	NC_021166.1	Ca_kabuli_chr07	15646109	AA	CC	1946884926
SNP_P4_94018_15646500	NC_021166.1	Ca_kabuli_chr07	15646500	TT	CC	1946884928
SNP_P4_94019_15649231	NC_021166.1	Ca_kabuli_chr07	15649231	TT	AA	1946884930
SNP_P4_94021_15665914	NC_021166.1	Ca_kabuli_chr07	15665914	CC	AA	1946884932
SNP_P4_94023_15687987	NC_021166.1	Ca_kabuli_chr07	15687987	AA	CC	1946884934
SNP_P4_94027_15709771	NC_021166.1	Ca_kabuli_chr07	15709771	GG	AA	1946884936
SNP_P4_94028_15710379	NC_021166.1	Ca_kabuli_chr07	15710379	TT	GG	1946884938
SNP_P4_94029_15734930	NC_021166.1	Ca_kabuli_chr07	15734930	CC	TT	1946884940
SNP_P4_94031_15769131	NC_021166.1	Ca_kabuli_chr07	15769131	GG	AA	1946884942
SNP_P4_94032_15769582	NC_021166.1	Ca_kabuli_chr07	15769582	TT	CC	1946884944
SNP_P4_94033_15774250	NC_021166.1	Ca_kabuli_chr07	15774250	AA	GG	1946884946
SNP_P4_94035_15808273	NC_021166.1	Ca_kabuli_chr07	15808273	TT	AA	1946884949
SNP_P4_94036_15820572	NC_021166.1	Ca_kabuli_chr07	15820572	AA	TT	1946884951
SNP_P4_94037_15821503	NC_021166.1	Ca_kabuli_chr07	15821503	TT	CC	1946884953
SNP_P4_94038_15828080	NC_021166.1	Ca_kabuli_chr07	15828080	AA	CC	1946884955
SNP_P4_94039_15841195	NC_021166.1	Ca_kabuli_chr07	15841195	CC	GG	1946884957
SNP_P4_94040_15841293	NC_021166.1	Ca_kabuli_chr07	15841293	TT	CC	1946884959
SNP_P4_94041_15841396	NC_021166.1	Ca_kabuli_chr07	15841396	TT	GG	1946884961
SNP_P4_94042_15841442	NC_021166.1	Ca_kabuli_chr07	15841442	TT	AA	1946884963

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_94044_15850902	NC_021166.1	Ca_kabuli_chr07	15850902	CC	TT	1946884967
SNP_P4_94045_15850903	NC_021166.1	Ca_kabuli_chr07	15850903	TT	AA	1946884969
SNP_P4_94047_15873812	NC_021166.1	Ca_kabuli_chr07	15873812	TT	CC	1946884971
SNP_P4_94048_15878937	NC_021166.1	Ca_kabuli_chr07	15878937	GG	AA	1946884973
SNP_P4_94049_15896962	NC_021166.1	Ca_kabuli_chr07	15896962	AA	TT	1946884975
SNP_P4_94050_15896977	NC_021166.1	Ca_kabuli_chr07	15896977	TT	AA	1946884977
SNP_P4_94051_15899548	NC_021166.1	Ca_kabuli_chr07	15899548	GG	AA	1946884979
SNP_P4_94052_15899760	NC_021166.1	Ca_kabuli_chr07	15899760	TT	CC	1946884982
SNP_P4_94053_15903615	NC_021166.1	Ca_kabuli_chr07	15903615	AA	GG	1946884984
SNP_P4_94054_15907108	NC_021166.1	Ca_kabuli_chr07	15907108	GG	AA	1946884986
SNP_P4_94055_15918813	NC_021166.1	Ca_kabuli_chr07	15918813	CC	TT	1946884988
SNP_P4_94056_15922053	NC_021166.1	Ca_kabuli_chr07	15922053	AA	GG	1946884990
SNP_P4_94057_15929893	NC_021166.1	Ca_kabuli_chr07	15929893	TT	CC	1946884992
SNP_P4_94059_15952968	NC_021166.1	Ca_kabuli_chr07	15952968	CC	TT	1946884994
SNP_P4_94060_15969547	NC_021166.1	Ca_kabuli_chr07	15969547	TT	CC	1946884997
SNP_P4_94061_15969607	NC_021166.1	Ca_kabuli_chr07	15969607	GG	TT	1946884999
SNP_P4_94062_15969929	NC_021166.1	Ca_kabuli_chr07	15969929	CC	TT	1946885000
SNP_P4_94065_16067673	NC_021166.1	Ca_kabuli_chr07	16067673	AA	TT	1946885002
SNP_P4_94066_16067674	NC_021166.1	Ca_kabuli_chr07	16067674	TT	CC	1946885004
SNP_P4_94067_16080616	NC_021166.1	Ca_kabuli_chr07	16080616	TT	CC	1946885007
SNP_P4_94068_16080778	NC_021166.1	Ca_kabuli_chr07	16080778	AA	CC	1946885009
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SNP_P4_94070_16080819	NC_021166.1	Ca_kabuli_chr07	16080819	CC	GG	1946885013
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SNP_P4_94072_16080887	NC_021166.1	Ca_kabuli_chr07	16080887	GG	TT	1946885017
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SNP_P4_94074_16081791	NC_021166.1	Ca_kabuli_chr07	16081791	TT	CC	1946885021
SNP_P4_94075_16081843	NC_021166.1	Ca_kabuli_chr07	16081843	CC	TT	1946885023
SNP_P4_94076_16081899	NC_021166.1	Ca_kabuli_chr07	16081899	CC	TT	1946885025
SNP_P4_94077_16082044	NC_021166.1	Ca_kabuli_chr07	16082044	AA	GG	1946885027
SNP_P4_94078_16082159	NC_021166.1	Ca_kabuli_chr07	16082159	AA	GG	1946885029
SNP_P4_94079_16082201	NC_021166.1	Ca_kabuli_chr07	16082201	CC	GG	1946885031
SNP_P4_94080_16082243	NC_021166.1	Ca_kabuli_chr07	16082243	AA	GG	1946885033
SNP_P4_94081_16082251	NC_021166.1	Ca_kabuli_chr07	16082251	TT	CC	1946885035
SNP_P4_94082_16082331	NC_021166.1	Ca_kabuli_chr07	16082331	TT	GG	1946885037
SNP_P4_94083_16082332	NC_021166.1	Ca_kabuli_chr07	16082332	GG	AA	1946885038
SNP_P4_94084_16082345	NC_021166.1	Ca_kabuli_chr07	16082345	GG	AA	1946885040
SNP_P4_94085_16082356	NC_021166.1	Ca_kabuli_chr07	16082356	TT	CC	1946885042
SNP_P4_94086_16089320	NC_021166.1	Ca_kabuli_chr07	16089320	TT	CC	1946885044
SNP_P4_94087_16099663	NC_021166.1	Ca_kabuli_chr07	16099663	AA	GG	1946885046
SNP_P4_94088_16099764	NC_021166.1	Ca_kabuli_chr07	16099764	TT	CC	1946885048

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_94090_16100601	NC_021166.1	Ca_kabuli_chr07	16100601	AA	CC	1946885052
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SNP_P4_94094_16162358	NC_021166.1	Ca_kabuli_chr07	16162358	TT	AA	1946885056
SNP_P4_94095_16162374	NC_021166.1	Ca_kabuli_chr07	16162374	GG	TT	1946885058
SNP_P4_94096_16162499	NC_021166.1	Ca_kabuli_chr07	16162499	TT	CC	1946885060
SNP_P4_94097_16162504	NC_021166.1	Ca_kabuli_chr07	16162504	TT	CC	1946885062
SNP_P4_94098_16162542	NC_021166.1	Ca_kabuli_chr07	16162542	AA	CC	1946885064
SNP_P4_94099_16162842	NC_021166.1	Ca_kabuli_chr07	16162842	AA	CC	1946885066
SNP_P4_94100_16163090	NC_021166.1	Ca_kabuli_chr07	16163090	TT	AA	1946885068
SNP_P4_94101_16173732	NC_021166.1	Ca_kabuli_chr07	16173732	GG	AA	1946885070
SNP_P4_94102_16174234	NC_021166.1	Ca_kabuli_chr07	16174234	TT	GG	1946885072
SNP_P4_94103_16195463	NC_021166.1	Ca_kabuli_chr07	16195463	GG	AA	1946885074
SNP_P4_94104_16225483	NC_021166.1	Ca_kabuli_chr07	16225483	AA	TT	1946885076
SNP_P4_94105_16234869	NC_021166.1	Ca_kabuli_chr07	16234869	AA	GG	1946885077
SNP_P4_94106_16236849	NC_021166.1	Ca_kabuli_chr07	16236849	GG	AA	1946885079
SNP_P4_94107_16242125	NC_021166.1	Ca_kabuli_chr07	16242125	CC	TT	1946885081
SNP_P4_94108_16242129	NC_021166.1	Ca_kabuli_chr07	16242129	AA	CC	1946885083
SNP_P4_94109_16248113	NC_021166.1	Ca_kabuli_chr07	16248113	TT	CC	1946885085
SNP_P4_94111_16253977	NC_021166.1	Ca_kabuli_chr07	16253977	AA	TT	1946885087
SNP_P4_94112_16269718	NC_021166.1	Ca_kabuli_chr07	16269718	AA	CC	1946885089
SNP_P4_94113_16274244	NC_021166.1	Ca_kabuli_chr07	16274244	AA	CC	1946885091
SNP_P4_94114_16281648	NC_021166.1	Ca_kabuli_chr07	16281648	AA	GG	1946885093
SNP_P4_94115_16290382	NC_021166.1	Ca_kabuli_chr07	16290382	CC	TT	1946885095
SNP_P4_94117_16298428	NC_021166.1	Ca_kabuli_chr07	16298428	AA	GG	1946885097
SNP_P4_94118_16308507	NC_021166.1	Ca_kabuli_chr07	16308507	CC	GG	1946885099
SNP_P4_94119_16313537	NC_021166.1	Ca_kabuli_chr07	16313537	TT	CC	1946885100
SNP_P4_94120_16318107	NC_021166.1	Ca_kabuli_chr07	16318107	TT	AA	1946885102
SNP_P4_94122_16335011	NC_021166.1	Ca_kabuli_chr07	16335011	TT	CC	1946885104
SNP_P4_94124_16361536	NC_021166.1	Ca_kabuli_chr07	16361536	GG	AA	1946885106
SNP_P4_94125_16376773	NC_021166.1	Ca_kabuli_chr07	16376773	GG	CC	1946885108
SNP_P4_94126_16378225	NC_021166.1	Ca_kabuli_chr07	16378225	TT	AA	1946885110
SNP_P4_94127_16395475	NC_021166.1	Ca_kabuli_chr07	16395475	GG	AA	1946885112
SNP_P4_94129_16429556	NC_021166.1	Ca_kabuli_chr07	16429556	GG	AA	1946885114
SNP_P4_94130_16445242	NC_021166.1	Ca_kabuli_chr07	16445242	CC	TT	1946885116
SNP_P4_94131_16450125	NC_021166.1	Ca_kabuli_chr07	16450125	TT	CC	1946885118
SNP_P4_94132_16456979	NC_021166.1	Ca_kabuli_chr07	16456979	GG	AA	1946885120
SNP_P4_94133_16468496	NC_021166.1	Ca_kabuli_chr07	16468496	AA	GG	1946885122
SNP_P4_94134_16472766	NC_021166.1	Ca_kabuli_chr07	16472766	CC	TT	1946885123
SNP_P4_94135_16475361	NC_021166.1	Ca_kabuli_chr07	16475361	TT	CC	1946885125
SNP_P4_94136_16475373	NC_021166.1	Ca_kabuli_chr07	16475373	GG	AA	1946885127
SNP_P4_94137_16475464	NC_021166.1	Ca_kabuli_chr07	16475464	AA	TT	1946885129

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_94139_16475600	NC_021166.1	Ca_kabuli_chr07	16475600	GG	TT	1946885133
SNP_P4_94140_16475792	NC_021166.1	Ca_kabuli_chr07	16475792	TT	CC	1946885135
SNP_P4_94141_16499823	NC_021166.1	Ca_kabuli_chr07	16499823	TT	CC	1946885137
SNP_P4_94142_16499838	NC_021166.1	Ca_kabuli_chr07	16499838	CC	TT	1946885139
SNP_P4_94143_16503335	NC_021166.1	Ca_kabuli_chr07	16503335	AA	CC	1946885141
SNP_P4_94144_16503553	NC_021166.1	Ca_kabuli_chr07	16503553	GG	AA	1946885143
SNP_P4_94145_16518286	NC_021166.1	Ca_kabuli_chr07	16518286	AA	TT	1946885145
SNP_P4_94146_16523096	NC_021166.1	Ca_kabuli_chr07	16523096	CC	TT	1946885147
SNP_P4_94147_16523757	NC_021166.1	Ca_kabuli_chr07	16523757	CC	TT	1946885149
SNP_P4_94148_16524080	NC_021166.1	Ca_kabuli_chr07	16524080	CC	TT	1946885150
SNP_P4_94149_16524160	NC_021166.1	Ca_kabuli_chr07	16524160	CC	TT	1946885152
SNP_P4_94150_16524165	NC_021166.1	Ca_kabuli_chr07	16524165	AA	GG	1946885154
SNP_P4_94151_16524254	NC_021166.1	Ca_kabuli_chr07	16524254	GG	TT	1946885156
SNP_P4_94152_16524366	NC_021166.1	Ca_kabuli_chr07	16524366	GG	TT	1946885158
SNP_P4_94153_16524383	NC_021166.1	Ca_kabuli_chr07	16524383	AA	GG	1946885160
SNP_P4_94154_16524388	NC_021166.1	Ca_kabuli_chr07	16524388	TT	GG	1946885162
SNP_P4_94155_16524489	NC_021166.1	Ca_kabuli_chr07	16524489	GG	AA	1946885164
SNP_P4_94156_16543631	NC_021166.1	Ca_kabuli_chr07	16543631	TT	CC	1946885166
SNP_P4_94157_16543874	NC_021166.1	Ca_kabuli_chr07	16543874	TT	CC	1946885168
SNP_P4_94158_16544037	NC_021166.1	Ca_kabuli_chr07	16544037	GG	CC	1946885170
SNP_P4_94159_16544043	NC_021166.1	Ca_kabuli_chr07	16544043	CC	TT	1946885172
SNP_P4_94160_16544169	NC_021166.1	Ca_kabuli_chr07	16544169	AA	GG	1946885174
SNP_P4_94161_16544264	NC_021166.1	Ca_kabuli_chr07	16544264	GG	AA	1946885176
SNP_P4_94162_16544269	NC_021166.1	Ca_kabuli_chr07	16544269	TT	CC	1946885178
SNP_P4_94163_16544309	NC_021166.1	Ca_kabuli_chr07	16544309	CC	TT	1946885180
SNP_P4_94164_16548505	NC_021166.1	Ca_kabuli_chr07	16548505	CC	AA	1946885182
SNP_P4_94165_16548568	NC_021166.1	Ca_kabuli_chr07	16548568	AA	TT	1946885184
SNP_P4_94166_16548652	NC_021166.1	Ca_kabuli_chr07	16548652	CC	AA	1946885186
SNP_P4_94168_16548696	NC_021166.1	Ca_kabuli_chr07	16548696	GG	AA	1946885188
SNP_P4_94170_16560929	NC_021166.1	Ca_kabuli_chr07	16560929	CC	TT	1946885190
SNP_P4_94171_16564310	NC_021166.1	Ca_kabuli_chr07	16564310	GG	AA	1946885192
SNP_P4_94172_16568702	NC_021166.1	Ca_kabuli_chr07	16568702	GG	AA	1946885194
SNP_P4_94174_16615940	NC_021166.1	Ca_kabuli_chr07	16615940	GG	AA	1946885196
SNP_P4_94175_16632709	NC_021166.1	Ca_kabuli_chr07	16632709	TT	AA	1946885198
SNP_P4_94176_16635503	NC_021166.1	Ca_kabuli_chr07	16635503	TT	AA	1946885200
SNP_P4_94177_16656674	NC_021166.1	Ca_kabuli_chr07	16656674	GG	AA	1946885202
SNP_P4_94179_16700006	NC_021166.1	Ca_kabuli_chr07	16700006	TT	CC	1946885204
SNP_P4_94180_16709168	NC_021166.1	Ca_kabuli_chr07	16709168	GG	AA	1946885206
SNP_P4_94181_16710255	NC_021166.1	Ca_kabuli_chr07	16710255	TT	GG	1946885208
SNP_P4_94183_16751005	NC_021166.1	Ca_kabuli_chr07	16751005	AA	TT	1946885210
SNP_P4_94184_16753114	NC_021166.1	Ca_kabuli_chr07	16753114	TT	CC	1946885212

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_94186_16753132	NC_021166.1	Ca_kabuli_chr07	16753132	TT	CC	1946885216
SNP_P4_94187_16767595	NC_021166.1	Ca_kabuli_chr07	16767595	GG	AA	1946885218
SNP_P4_94188_16767667	NC_021166.1	Ca_kabuli_chr07	16767667	GG	AA	1946885220
SNP_P4_94189_16840472	NC_021166.1	Ca_kabuli_chr07	16840472	GG	TT	1946885222
SNP_P4_94190_16840793	NC_021166.1	Ca_kabuli_chr07	16840793	TT	CC	1946885224
SNP_P4_94191_16841083	NC_021166.1	Ca_kabuli_chr07	16841083	CC	TT	1946885226
SNP_P4_94192_16841114	NC_021166.1	Ca_kabuli_chr07	16841114	TT	CC	1946885228
SNP_P4_94193_16841146	NC_021166.1	Ca_kabuli_chr07	16841146	AA	GG	1946885230
SNP_P4_94196_16885581	NC_021166.1	Ca_kabuli_chr07	16885581	TT	CC	1946885232
SNP_P4_94197_16885584	NC_021166.1	Ca_kabuli_chr07	16885584	AA	CC	1946885234
SNP_P4_94198_16895464	NC_021166.1	Ca_kabuli_chr07	16895464	CC	TT	1946885236
SNP_P4_94199_16895522	NC_021166.1	Ca_kabuli_chr07	16895522	TT	CC	1946885238
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SNP_P4_94202_16895539	NC_021166.1	Ca_kabuli_chr07	16895539	AA	GG	1946885244
SNP_P4_94203_16895961	NC_021166.1	Ca_kabuli_chr07	16895961	AA	GG	1946885246
SNP_P4_94205_16925310	NC_021166.1	Ca_kabuli_chr07	16925310	TT	CC	1946885248
SNP_P4_94206_16939881	NC_021166.1	Ca_kabuli_chr07	16939881	GG	AA	1946885250
SNP_P4_94207_16940265	NC_021166.1	Ca_kabuli_chr07	16940265	CC	TT	1946885252
SNP_P4_94208_16941496	NC_021166.1	Ca_kabuli_chr07	16941496	CC	TT	1946885254
SNP_P4_94209_16941505	NC_021166.1	Ca_kabuli_chr07	16941505	TT	CC	1946885256
SNP_P4_94210_16941555	NC_021166.1	Ca_kabuli_chr07	16941555	AA	CC	1946885258
SNP_P4_94211_16941559	NC_021166.1	Ca_kabuli_chr07	16941559	GG	CC	1946885259
SNP_P4_94213_16941733	NC_021166.1	Ca_kabuli_chr07	16941733	AA	GG	1946885261
SNP_P4_94214_16941742	NC_021166.1	Ca_kabuli_chr07	16941742	TT	GG	1946885263
SNP_P4_94215_16941767	NC_021166.1	Ca_kabuli_chr07	16941767	AA	CC	1946885265
SNP_P4_94216_16941873	NC_021166.1	Ca_kabuli_chr07	16941873	AA	CC	1946885267
SNP_P4_94217_16942040	NC_021166.1	Ca_kabuli_chr07	16942040	CC	TT	1946885269
SNP_P4_94218_16954726	NC_021166.1	Ca_kabuli_chr07	16954726	AA	CC	1946885271
SNP_P4_94219_16954727	NC_021166.1	Ca_kabuli_chr07	16954727	TT	CC	1946885273
SNP_P4_94221_16988045	NC_021166.1	Ca_kabuli_chr07	16988045	AA	TT	1946885275
SNP_P4_94222_16988089	NC_021166.1	Ca_kabuli_chr07	16988089	CC	GG	1946885277
SNP_P4_94223_16988427	NC_021166.1	Ca_kabuli_chr07	16988427	GG	TT	1946885279
SNP_P4_94224_16988432	NC_021166.1	Ca_kabuli_chr07	16988432	TT	CC	1946885281
SNP_P4_94225_16988474	NC_021166.1	Ca_kabuli_chr07	16988474	CC	TT	1946885283
SNP_P4_94226_16988487	NC_021166.1	Ca_kabuli_chr07	16988487	AA	GG	1946885285
SNP_P4_94227_16990299	NC_021166.1	Ca_kabuli_chr07	16990299	CC	TT	1946885287
SNP_P4_94228_17006032	NC_021166.1	Ca_kabuli_chr07	17006032	AA	GG	1946885289
SNP_P4_94229_17048927	NC_021166.1	Ca_kabuli_chr07	17048927	AA	GG	1946885291
SNP_P4_94230_17048928	NC_021166.1	Ca_kabuli_chr07	17048928	GG	AA	1946885293
SNP_P4_94232_17113745	NC_021166.1	Ca_kabuli_chr07	17113745	TT	GG	1946885295

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_94235_17114061	NC_021166.1	Ca_kabuli_chr07	17114061	GG	AA	1946885302
SNP_P4_94236_17114170	NC_021166.1	Ca_kabuli_chr07	17114170	TT	GG	1946885304
SNP_P4_94237_17133012	NC_021166.1	Ca_kabuli_chr07	17133012	AA	TT	1946885306
SNP_P4_94239_17137193	NC_021166.1	Ca_kabuli_chr07	17137193	TT	CC	1946885308
SNP_P4_94242_17194338	NC_021166.1	Ca_kabuli_chr07	17194338	CC	AA	1946885310
SNP_P4_94243_17203637	NC_021166.1	Ca_kabuli_chr07	17203637	TT	CC	1946885312
SNP_P4_94244_17207120	NC_021166.1	Ca_kabuli_chr07	17207120	CC	AA	1946885314
SNP_P4_94245_17207154	NC_021166.1	Ca_kabuli_chr07	17207154	TT	CC	1946885316
SNP_P4_94246_17207268	NC_021166.1	Ca_kabuli_chr07	17207268	AA	GG	1946885318
SNP_P4_94247_17211740	NC_021166.1	Ca_kabuli_chr07	17211740	AA	GG	1946885320
SNP_P4_94248_17218981	NC_021166.1	Ca_kabuli_chr07	17218981	AA	TT	1946885322
SNP_P4_94249_17220013	NC_021166.1	Ca_kabuli_chr07	17220013	AA	CC	1946885324
SNP_P4_94250_17237702	NC_021166.1	Ca_kabuli_chr07	17237702	TT	AA	1946885326
SNP_P4_94251_17265960	NC_021166.1	Ca_kabuli_chr07	17265960	GG	AA	1946885328
SNP_P4_94252_17269265	NC_021166.1	Ca_kabuli_chr07	17269265	CC	TT	1946885330
SNP_P4_94253_17269357	NC_021166.1	Ca_kabuli_chr07	17269357	GG	CC	1946885332
SNP_P4_94254_17269528	NC_021166.1	Ca_kabuli_chr07	17269528	GG	AA	1946885334
SNP_P4_94255_17269539	NC_021166.1	Ca_kabuli_chr07	17269539	GG	AA	1946885336
SNP_P4_94256_17269541	NC_021166.1	Ca_kabuli_chr07	17269541	GG	AA	1946885338
SNP_P4_94257_17269603	NC_021166.1	Ca_kabuli_chr07	17269603	AA	GG	1946885340
SNP_P4_94258_17276016	NC_021166.1	Ca_kabuli_chr07	17276016	AA	GG	1946885342
SNP_P4_94259_17293132	NC_021166.1	Ca_kabuli_chr07	17293132	GG	AA	1946885344
SNP_P4_94260_17295386	NC_021166.1	Ca_kabuli_chr07	17295386	CC	TT	1946885346
SNP_P4_94261_17352753	NC_021166.1	Ca_kabuli_chr07	17352753	AA	GG	1946885348
SNP_P4_94264_17358356	NC_021166.1	Ca_kabuli_chr07	17358356	CC	TT	1946885350
SNP_P4_94265_17358393	NC_021166.1	Ca_kabuli_chr07	17358393	CC	TT	1946885352
SNP_P4_94266_17358405	NC_021166.1	Ca_kabuli_chr07	17358405	GG	AA	1946885354
SNP_P4_94267_17372032	NC_021166.1	Ca_kabuli_chr07	17372032	CC	AA	1946885356
SNP_P4_94268_17372125	NC_021166.1	Ca_kabuli_chr07	17372125	TT	AA	1946885358
SNP_P4_94269_17372660	NC_021166.1	Ca_kabuli_chr07	17372660	TT	AA	1946885360
SNP_P4_94270_17374501	NC_021166.1	Ca_kabuli_chr07	17374501	AA	GG	1946885362
SNP_P4_94271_17374519	NC_021166.1	Ca_kabuli_chr07	17374519	CC	TT	1946885364
SNP_P4_94272_17374585	NC_021166.1	Ca_kabuli_chr07	17374585	CC	AA	1946885366
SNP_P4_94274_17375095	NC_021166.1	Ca_kabuli_chr07	17375095	TT	GG	1946885368
SNP_P4_94275_17375121	NC_021166.1	Ca_kabuli_chr07	17375121	TT	GG	1946885370
SNP_P4_94276_17385377	NC_021166.1	Ca_kabuli_chr07	17385377	AA	TT	1946885372
SNP_P4_94277_17395746	NC_021166.1	Ca_kabuli_chr07	17395746	CC	TT	1946885374
SNP_P4_94278_17411022	NC_021166.1	Ca_kabuli_chr07	17411022	TT	CC	1946885376
SNP_P4_94279_17412133	NC_021166.1	Ca_kabuli_chr07	17412133	AA	GG	1946885378
SNP_P4_94280_17421596	NC_021166.1	Ca_kabuli_chr07	17421596	AA	TT	1946885380

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_94282_17421882	NC_021166.1	Ca_kabuli_chr07	17421882	AA	GG	1946885385
SNP_P4_94283_17434430	NC_021166.1	Ca_kabuli_chr07	17434430	GG	AA	1946885387
SNP_P4_94284_17434708	NC_021166.1	Ca_kabuli_chr07	17434708	TT	AA	1946885389
SNP_P4_94285_17454712	NC_021166.1	Ca_kabuli_chr07	17454712	AA	GG	1946885391
SNP_P4_94286_17454918	NC_021166.1	Ca_kabuli_chr07	17454918	GG	AA	1946885393
SNP_P4_94287_17473180	NC_021166.1	Ca_kabuli_chr07	17473180	TT	GG	1946885395
SNP_P4_94288_17497462	NC_021166.1	Ca_kabuli_chr07	17497462	GG	AA	1946885397
SNP_P4_94289_17498211	NC_021166.1	Ca_kabuli_chr07	17498211	AA	TT	1946885399
SNP_P4_94290_17504847	NC_021166.1	Ca_kabuli_chr07	17504847	GG	AA	1946885401
SNP_P4_94291_17517254	NC_021166.1	Ca_kabuli_chr07	17517254	GG	AA	1946885403
SNP_P4_94292_17521138	NC_021166.1	Ca_kabuli_chr07	17521138	CC	TT	1946885405
SNP_P4_94293_17543823	NC_021166.1	Ca_kabuli_chr07	17543823	GG	CC	1946885407
SNP_P4_94294_17544601	NC_021166.1	Ca_kabuli_chr07	17544601	AA	TT	1946885409
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SNP_P4_94299_17574978	NC_021166.1	Ca_kabuli_chr07	17574978	CC	TT	1946885413
SNP_P4_94302_17612207	NC_021166.1	Ca_kabuli_chr07	17612207	GG	AA	1946885415
SNP_P4_94303_17622889	NC_021166.1	Ca_kabuli_chr07	17622889	GG	AA	1946885417
SNP_P4_94304_17623907	NC_021166.1	Ca_kabuli_chr07	17623907	CC	TT	1946885419
SNP_P4_94305_17652502	NC_021166.1	Ca_kabuli_chr07	17652502	GG	AA	1946885421
SNP_P4_94306_17676582	NC_021166.1	Ca_kabuli_chr07	17676582	CC	TT	1946885423
SNP_P4_94308_17702824	NC_021166.1	Ca_kabuli_chr07	17702824	CC	GG	1946885425
SNP_P4_94309_17735936	NC_021166.1	Ca_kabuli_chr07	17735936	TT	CC	1946885427
SNP_P4_94310_17746554	NC_021166.1	Ca_kabuli_chr07	17746554	GG	AA	1946885429
SNP_P4_94311_17752883	NC_021166.1	Ca_kabuli_chr07	17752883	TT	CC	1946885431
SNP_P4_94312_17790621	NC_021166.1	Ca_kabuli_chr07	17790621	CC	TT	1946885433
SNP_P4_94313_17792122	NC_021166.1	Ca_kabuli_chr07	17792122	GG	AA	1946885435
SNP_P4_94314_17795030	NC_021166.1	Ca_kabuli_chr07	17795030	TT	CC	1946885437
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SNP_P4_94316_17816102	NC_021166.1	Ca_kabuli_chr07	17816102	GG	TT	1946885441
SNP_P4_94317_17829493	NC_021166.1	Ca_kabuli_chr07	17829493	CC	TT	1946885443
SNP_P4_94318_17829522	NC_021166.1	Ca_kabuli_chr07	17829522	TT	CC	1946885445
SNP_P4_94319_17834680	NC_021166.1	Ca_kabuli_chr07	17834680	GG	AA	1946885447
SNP_P4_94320_17835058	NC_021166.1	Ca_kabuli_chr07	17835058	GG	CC	1946885450
SNP_P4_94321_17835112	NC_021166.1	Ca_kabuli_chr07	17835112	AA	CC	1946885452
SNP_P4_94322_17835113	NC_021166.1	Ca_kabuli_chr07	17835113	TT	AA	1946885454
SNP_P4_94324_17841610	NC_021166.1	Ca_kabuli_chr07	17841610	CC	TT	1946885456
SNP_P4_94325_17858807	NC_021166.1	Ca_kabuli_chr07	17858807	GG	AA	1946885458
SNP_P4_94326_17864421	NC_021166.1	Ca_kabuli_chr07	17864421	CC	TT	1946885460
SNP_P4_94327_17866384	NC_021166.1	Ca_kabuli_chr07	17866384	GG	AA	1946885462
SNP_P4_94328_17866725	NC_021166.1	Ca_kabuli_chr07	17866725	GG	CC	1946885464
SNP_P4_94329_17869124	NC_021166.1	Ca_kabuli_chr07	17869124	CC	AA	1946885466

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_94332_17869189	NC_021166.1	Ca_kabuli_chr07	17869189	TT	CC	1946885472
SNP_P4_94333_17869299	NC_021166.1	Ca_kabuli_chr07	17869299	TT	CC	1946885474
SNP_P4_94334_17869631	NC_021166.1	Ca_kabuli_chr07	17869631	AA	TT	1946885476
SNP_P4_94335_17869634	NC_021166.1	Ca_kabuli_chr07	17869634	TT	CC	1946885478
SNP_P4_94336_17874951	NC_021166.1	Ca_kabuli_chr07	17874951	GG	TT	1946885480
SNP_P4_94337_17874959	NC_021166.1	Ca_kabuli_chr07	17874959	CC	GG	1946885482
SNP_P4_94338_17875009	NC_021166.1	Ca_kabuli_chr07	17875009	TT	CC	1946885484
SNP_P4_94339_17875240	NC_021166.1	Ca_kabuli_chr07	17875240	GG	AA	1946885486
SNP_P4_94340_17875325	NC_021166.1	Ca_kabuli_chr07	17875325	AA	GG	1946885488
SNP_P4_94341_17875660	NC_021166.1	Ca_kabuli_chr07	17875660	CC	TT	1946885490
SNP_P4_94342_17879998	NC_021166.1	Ca_kabuli_chr07	17879998	AA	GG	1946885492
SNP_P4_94343_17880009	NC_021166.1	Ca_kabuli_chr07	17880009	GG	AA	1946885494
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SNP_P4_94345_17880234	NC_021166.1	Ca_kabuli_chr07	17880234	TT	CC	1946885498
SNP_P4_94346_17880237	NC_021166.1	Ca_kabuli_chr07	17880237	GG	AA	1946885499
SNP_P4_94347_17893528	NC_021166.1	Ca_kabuli_chr07	17893528	GG	AA	1946885501
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SNP_P4_94350_17897597	NC_021166.1	Ca_kabuli_chr07	17897597	CC	AA	1946885507
SNP_P4_94351_17897724	NC_021166.1	Ca_kabuli_chr07	17897724	TT	CC	1946885509
SNP_P4_94352_17897790	NC_021166.1	Ca_kabuli_chr07	17897790	TT	AA	1946885511
SNP_P4_94353_17897917	NC_021166.1	Ca_kabuli_chr07	17897917	TT	CC	1946885513
SNP_P4_94354_17898460	NC_021166.1	Ca_kabuli_chr07	17898460	AA	CC	1946885515
SNP_P4_94355_17902126	NC_021166.1	Ca_kabuli_chr07	17902126	GG	AA	1946885517
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SNP_P4_94357_17922254	NC_021166.1	Ca_kabuli_chr07	17922254	AA	GG	1946885521
SNP_P4_94358_17922262	NC_021166.1	Ca_kabuli_chr07	17922262	GG	CC	1946885523
SNP_P4_94359_17922296	NC_021166.1	Ca_kabuli_chr07	17922296	AA	CC	1946885525
SNP_P4_94360_17922516	NC_021166.1	Ca_kabuli_chr07	17922516	CC	TT	1946885527
SNP_P4_94361_17922561	NC_021166.1	Ca_kabuli_chr07	17922561	AA	GG	1946885529
SNP_P4_94362_17922608	NC_021166.1	Ca_kabuli_chr07	17922608	AA	GG	1946885531
SNP_P4_94364_17923043	NC_021166.1	Ca_kabuli_chr07	17923043	AA	GG	1946885533
SNP_P4_94365_17923057	NC_021166.1	Ca_kabuli_chr07	17923057	TT	CC	1946885535
SNP_P4_94366_17923075	NC_021166.1	Ca_kabuli_chr07	17923075	GG	AA	1946885537
SNP_P4_94367_17923085	NC_021166.1	Ca_kabuli_chr07	17923085	TT	GG	1946885539
SNP_P4_94368_17923860	NC_021166.1	Ca_kabuli_chr07	17923860	GG	TT	1946885541
SNP_P4_94369_17923922	NC_021166.1	Ca_kabuli_chr07	17923922	CC	TT	1946885543
SNP_P4_94370_17924302	NC_021166.1	Ca_kabuli_chr07	17924302	AA	TT	1946885545
SNP_P4_94371_17935070	NC_021166.1	Ca_kabuli_chr07	17935070	GG	TT	1946885547
SNP_P4_94372_17952272	NC_021166.1	Ca_kabuli_chr07	17952272	AA	GG	1946885549

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_94377_18006042	NC_021166.1	Ca_kabuli_chr07	18006042	TT	GG	1946885557
SNP_P4_94378_18006797	NC_021166.1	Ca_kabuli_chr07	18006797	CC	TT	1946885559
SNP_P4_94379_18007004	NC_021166.1	Ca_kabuli_chr07	18007004	AA	TT	1946885561
SNP_P4_94380_18007182	NC_021166.1	Ca_kabuli_chr07	18007182	GG	AA	1946885563
SNP_P4_94382_18007302	NC_021166.1	Ca_kabuli_chr07	18007302	AA	GG	1946885565
SNP_P4_94383_18007484	NC_021166.1	Ca_kabuli_chr07	18007484	AA	GG	1946885567
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SNP_P4_94388_18007798	NC_021166.1	Ca_kabuli_chr07	18007798	CC	TT	1946885575
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SNP_P4_94390_18009246	NC_021166.1	Ca_kabuli_chr07	18009246	CC	GG	1946885579
SNP_P4_94391_18009259	NC_021166.1	Ca_kabuli_chr07	18009259	CC	TT	1946885581
SNP_P4_94392_18009265	NC_021166.1	Ca_kabuli_chr07	18009265	AA	TT	1946885583
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SNP_P4_94407_18071028	NC_021166.1	Ca_kabuli_chr07	18071028	AA	GG	1946885609
SNP_P4_94408_18071036	NC_021166.1	Ca_kabuli_chr07	18071036	TT	AA	1946885611
SNP_P4_94409_18071037	NC_021166.1	Ca_kabuli_chr07	18071037	AA	TT	1946885613
SNP_P4_94410_18071121	NC_021166.1	Ca_kabuli_chr07	18071121	TT	GG	1946885615
SNP_P4_94411_18071159	NC_021166.1	Ca_kabuli_chr07	18071159	AA	TT	1946885618
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SNP_P4_94415_18071401	NC_021166.1	Ca_kabuli_chr07	18071401	CC	AA	1946885626
SNP_P4_94416_18084750	NC_021166.1	Ca_kabuli_chr07	18084750	CC	TT	1946885628
SNP_P4_94417_18088218	NC_021166.1	Ca_kabuli_chr07	18088218	TT	AA	1946885630
SNP_P4_94418_18093294	NC_021166.1	Ca_kabuli_chr07	18093294	GG	AA	1946885632
SNP_P4_94419_18093295	NC_021166.1	Ca_kabuli_chr07	18093295	CC	GG	1946885634

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_94422_18106622	NC_021166.1	Ca_kabuli_chr07	18106622	TT	AA	1946885640
SNP_P4_94423_18110103	NC_021166.1	Ca_kabuli_chr07	18110103	AA	GG	1946885642
SNP_P4_94424_18110111	NC_021166.1	Ca_kabuli_chr07	18110111	TT	CC	1946885644
SNP_P4_94425_18110130	NC_021166.1	Ca_kabuli_chr07	18110130	AA	GG	1946885646
SNP_P4_94426_18110142	NC_021166.1	Ca_kabuli_chr07	18110142	GG	AA	1946885648
SNP_P4_94427_18110178	NC_021166.1	Ca_kabuli_chr07	18110178	AA	TT	1946885650
SNP_P4_94428_18122812	NC_021166.1	Ca_kabuli_chr07	18122812	CC	TT	1946885652
SNP_P4_94429_18125367	NC_021166.1	Ca_kabuli_chr07	18125367	CC	TT	1946885654
SNP_P4_94430_18125422	NC_021166.1	Ca_kabuli_chr07	18125422	TT	AA	1946885656
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SNP_P4_94434_18151654	NC_021166.1	Ca_kabuli_chr07	18151654	AA	GG	1946885662
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SNP_P4_94439_18168082	NC_021166.1	Ca_kabuli_chr07	18168082	CC	TT	1946885666
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SNP_P4_94444_18198998	NC_021166.1	Ca_kabuli_chr07	18198998	GG	TT	1946885672
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SNP_P4_94447_18199084	NC_021166.1	Ca_kabuli_chr07	18199084	TT	CC	1946885677
SNP_P4_94448_18199086	NC_021166.1	Ca_kabuli_chr07	18199086	AA	TT	1946885679
SNP_P4_94449_18199434	NC_021166.1	Ca_kabuli_chr07	18199434	TT	AA	1946885681
SNP_P4_94450_18199484	NC_021166.1	Ca_kabuli_chr07	18199484	GG	AA	1946885683
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SNP_P4_94455_18199549	NC_021166.1	Ca_kabuli_chr07	18199549	AA	GG	1946885693
SNP_P4_94456_18199566	NC_021166.1	Ca_kabuli_chr07	18199566	TT	AA	1946885695
SNP_P4_94457_18211303	NC_021166.1	Ca_kabuli_chr07	18211303	GG	AA	1946885697
SNP_P4_94458_18211555	NC_021166.1	Ca_kabuli_chr07	18211555	TT	GG	1946885699
SNP_P4_94459_18213290	NC_021166.1	Ca_kabuli_chr07	18213290	GG	AA	1946885701
SNP_P4_94460_18221628	NC_021166.1	Ca_kabuli_chr07	18221628	GG	AA	1946885703
SNP_P4_94461_18231042	NC_021166.1	Ca_kabuli_chr07	18231042	TT	GG	1946885705
SNP_P4_94462_18234962	NC_021166.1	Ca_kabuli_chr07	18234962	CC	TT	1946885707
SNP_P4_94463_18235004	NC_021166.1	Ca_kabuli_chr07	18235004	AA	GG	1946885709
SNP_P4_94464_18237462	NC_021166.1	Ca_kabuli_chr07	18237462	TT	CC	1946885711
SNP_P4_94465_18244444	NC_021166.1	Ca_kabuli_chr07	18244444	AA	GG	1946885713
SNP_P4_94466_18282177	NC_021166.1	Ca_kabuli_chr07	18282177	TT	CC	1946885715
SNP_P4_94467_18300588	NC_021166.1	Ca_kabuli_chr07	18300588	CC	AA	1946885717

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_94469_18308330	NC_021166.1	Ca_kabuli_chr07	18308330	AA	GG	1946885719
SNP_P4_94470_18326373	NC_021166.1	Ca_kabuli_chr07	18326373	AA	GG	1946885721
SNP_P4_94471_18328300	NC_021166.1	Ca_kabuli_chr07	18328300	GG	AA	1946885723
SNP_P4_94472_18332778	NC_021166.1	Ca_kabuli_chr07	18332778	CC	TT	1946885725
SNP_P4_94473_18332792	NC_021166.1	Ca_kabuli_chr07	18332792	CC	AA	1946885727
SNP_P4_94474_18332816	NC_021166.1	Ca_kabuli_chr07	18332816	CC	TT	1946885729
SNP_P4_94475_18332822	NC_021166.1	Ca_kabuli_chr07	18332822	CC	TT	1946885731
SNP_P4_94476_18332825	NC_021166.1	Ca_kabuli_chr07	18332825	CC	TT	1946885733
SNP_P4_94478_18332831	NC_021166.1	Ca_kabuli_chr07	18332831	TT	CC	1946885735
SNP_P4_94479_18332915	NC_021166.1	Ca_kabuli_chr07	18332915	GG	AA	1946885737
SNP_P4_94480_18333209	NC_021166.1	Ca_kabuli_chr07	18333209	CC	TT	1946885738
SNP_P4_94482_18333290	NC_021166.1	Ca_kabuli_chr07	18333290	TT	GG	1946885740
SNP_P4_94483_18339203	NC_021166.1	Ca_kabuli_chr07	18339203	GG	AA	1946885742
SNP_P4_94484_18339219	NC_021166.1	Ca_kabuli_chr07	18339219	AA	CC	1946885744
SNP_P4_94485_18339349	NC_021166.1	Ca_kabuli_chr07	18339349	GG	CC	1946885746
SNP_P4_94486_18339365	NC_021166.1	Ca_kabuli_chr07	18339365	GG	AA	1946885748
SNP_P4_94487_18343400	NC_021166.1	Ca_kabuli_chr07	18343400	TT	GG	1946885750
SNP_P4_94489_18362444	NC_021166.1	Ca_kabuli_chr07	18362444	TT	CC	1946885752
SNP_P4_94490_18362449	NC_021166.1	Ca_kabuli_chr07	18362449	AA	GG	1946885754
SNP_P4_94491_18362477	NC_021166.1	Ca_kabuli_chr07	18362477	AA	GG	1946885756
SNP_P4_94492_18362523	NC_021166.1	Ca_kabuli_chr07	18362523	TT	AA	1946885758
SNP_P4_94493_18362532	NC_021166.1	Ca_kabuli_chr07	18362532	CC	TT	1946885760
SNP_P4_94494_18362891	NC_021166.1	Ca_kabuli_chr07	18362891	CC	TT	1946885762
SNP_P4_94495_18363240	NC_021166.1	Ca_kabuli_chr07	18363240	AA	GG	1946885764
SNP_P4_94496_18363522	NC_021166.1	Ca_kabuli_chr07	18363522	CC	GG	1946885766
SNP_P4_94497_18363569	NC_021166.1	Ca_kabuli_chr07	18363569	TT	CC	1946885768
SNP_P4_94498_18372657	NC_021166.1	Ca_kabuli_chr07	18372657	TT	CC	1946885770
SNP_P4_94499_18391390	NC_021166.1	Ca_kabuli_chr07	18391390	CC	TT	1946885772
SNP_P4_94500_18405681	NC_021166.1	Ca_kabuli_chr07	18405681	GG	AA	1946885774
SNP_P4_94501_18408754	NC_021166.1	Ca_kabuli_chr07	18408754	GG	AA	1946885776
SNP_P4_94502_18408758	NC_021166.1	Ca_kabuli_chr07	18408758	CC	TT	1946885778
SNP_P4_94503_18409488	NC_021166.1	Ca_kabuli_chr07	18409488	AA	GG	1946885780
SNP_P4_94504_18409517	NC_021166.1	Ca_kabuli_chr07	18409517	AA	GG	1946885782
SNP_P4_94505_18409533	NC_021166.1	Ca_kabuli_chr07	18409533	CC	TT	1946885784
SNP_P4_94506_18409534	NC_021166.1	Ca_kabuli_chr07	18409534	TT	CC	1946885786
SNP_P4_94507_18409553	NC_021166.1	Ca_kabuli_chr07	18409553	AA	GG	1946885788
SNP_P4_94508_18409577	NC_021166.1	Ca_kabuli_chr07	18409577	AA	CC	1946885789
SNP_P4_94509_18410529	NC_021166.1	Ca_kabuli_chr07	18410529	AA	GG	1946885791
SNP_P4_94510_18411982	NC_021166.1	Ca_kabuli_chr07	18411982	CC	AA	1946885793
SNP_P4_94511_18414301	NC_021166.1	Ca_kabuli_chr07	18414301	TT	AA	1946885795
SNP_P4_94512_18418346	NC_021166.1	Ca_kabuli_chr07	18418346	TT	CC	1946885797
SNP_P4_94513_18434818	NC_021166.1	Ca_kabuli_chr07	18434818	CC	AA	1946885799

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_94517_18449308	NC_021166.1	Ca_kabuli_chr07	18449308	TT	AA	1946885803
SNP_P4_94518_18449313	NC_021166.1	Ca_kabuli_chr07	18449313	AA	CC	1946885805
SNP_P4_94519_18459289	NC_021166.1	Ca_kabuli_chr07	18459289	TT	GG	1946885807
SNP_P4_94520_18491360	NC_021166.1	Ca_kabuli_chr07	18491360	AA	CC	1946885809
SNP_P4_94521_18516089	NC_021166.1	Ca_kabuli_chr07	18516089	AA	TT	1946885811
SNP_P4_94522_18519252	NC_021166.1	Ca_kabuli_chr07	18519252	TT	AA	1946885813
SNP_P4_94523_18533812	NC_021166.1	Ca_kabuli_chr07	18533812	AA	CC	1946885815
SNP_P4_94524_18539501	NC_021166.1	Ca_kabuli_chr07	18539501	CC	TT	1946885817
SNP_P4_94525_18539507	NC_021166.1	Ca_kabuli_chr07	18539507	CC	TT	1946885818
SNP_P4_94526_18539621	NC_021166.1	Ca_kabuli_chr07	18539621	AA	GG	1946885820
SNP_P4_94527_18539674	NC_021166.1	Ca_kabuli_chr07	18539674	GG	TT	1946885822
SNP_P4_94528_18539689	NC_021166.1	Ca_kabuli_chr07	18539689	AA	GG	1946885824
SNP_P4_94529_18539713	NC_021166.1	Ca_kabuli_chr07	18539713	TT	CC	1946885826
SNP_P4_94530_18539756	NC_021166.1	Ca_kabuli_chr07	18539756	AA	GG	1946885828
SNP_P4_94531_18539789	NC_021166.1	Ca_kabuli_chr07	18539789	AA	TT	1946885830
SNP_P4_94532_18540089	NC_021166.1	Ca_kabuli_chr07	18540089	CC	TT	1946885832
SNP_P4_94533_18540122	NC_021166.1	Ca_kabuli_chr07	18540122	AA	GG	1946885834
SNP_P4_94534_18574447	NC_021166.1	Ca_kabuli_chr07	18574447	TT	AA	1946885836
SNP_P4_94535_18587157	NC_021166.1	Ca_kabuli_chr07	18587157	AA	GG	1946885838
SNP_P4_94536_18587182	NC_021166.1	Ca_kabuli_chr07	18587182	GG	CC	1946885839
SNP_P4_94537_18587223	NC_021166.1	Ca_kabuli_chr07	18587223	CC	AA	1946885841
SNP_P4_94538_18587404	NC_021166.1	Ca_kabuli_chr07	18587404	GG	AA	1946885843
SNP_P4_94539_18587448	NC_021166.1	Ca_kabuli_chr07	18587448	CC	TT	1946885845
SNP_P4_94540_18587466	NC_021166.1	Ca_kabuli_chr07	18587466	AA	TT	1946885847
SNP_P4_94541_18587495	NC_021166.1	Ca_kabuli_chr07	18587495	TT	GG	1946885849
SNP_P4_94542_18587510	NC_021166.1	Ca_kabuli_chr07	18587510	TT	CC	1946885851
SNP_P4_94543_18587524	NC_021166.1	Ca_kabuli_chr07	18587524	CC	TT	1946885853
SNP_P4_94544_18587533	NC_021166.1	Ca_kabuli_chr07	18587533	TT	CC	1946885855
SNP_P4_94545_18587546	NC_021166.1	Ca_kabuli_chr07	18587546	AA	TT	1946885857
SNP_P4_94546_18587563	NC_021166.1	Ca_kabuli_chr07	18587563	TT	CC	1946885859
SNP_P4_94547_18587603	NC_021166.1	Ca_kabuli_chr07	18587603	CC	TT	1946885861
SNP_P4_94548_18587607	NC_021166.1	Ca_kabuli_chr07	18587607	CC	TT	1946885863
SNP_P4_94550_18587706	NC_021166.1	Ca_kabuli_chr07	18587706	GG	AA	1946885865
SNP_P4_94551_18587760	NC_021166.1	Ca_kabuli_chr07	18587760	AA	GG	1946885867
SNP_P4_94552_18587763	NC_021166.1	Ca_kabuli_chr07	18587763	TT	CC	1946885869
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SNP_P4_94554_18587772	NC_021166.1	Ca_kabuli_chr07	18587772	AA	GG	1946885873
SNP_P4_94555_18587853	NC_021166.1	Ca_kabuli_chr07	18587853	GG	AA	1946885875
SNP_P4_94556_18588046	NC_021166.1	Ca_kabuli_chr07	18588046	GG	TT	1946885877
SNP_P4_94557_18588091	NC_021166.1	Ca_kabuli_chr07	18588091	AA	GG	1946885879
SNP_P4_94558_18588184	NC_021166.1	Ca_kabuli_chr07	18588184	AA	TT	1946885881

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_94560_18588341	NC_021166.1	Ca_kabuli_chr07	18588341	TT	AA	1946885885
SNP_P4_94561_18588411	NC_021166.1	Ca_kabuli_chr07	18588411	TT	AA	1946885887
SNP_P4_94562_18588443	NC_021166.1	Ca_kabuli_chr07	18588443	CC	AA	1946885889
SNP_P4_94563_18588451	NC_021166.1	Ca_kabuli_chr07	18588451	TT	CC	1946885891
SNP_P4_94564_18588488	NC_021166.1	Ca_kabuli_chr07	18588488	AA	CC	1946885893
SNP_P4_94565_18588599	NC_021166.1	Ca_kabuli_chr07	18588599	TT	CC	1946885895
SNP_P4_94566_18588642	NC_021166.1	Ca_kabuli_chr07	18588642	TT	CC	1946885896
SNP_P4_94568_18588689	NC_021166.1	Ca_kabuli_chr07	18588689	AA	GG	1946885898
SNP_P4_94569_18588743	NC_021166.1	Ca_kabuli_chr07	18588743	CC	TT	1946885900
SNP_P4_94570_18588753	NC_021166.1	Ca_kabuli_chr07	18588753	TT	CC	1946885902
SNP_P4_94571_18588761	NC_021166.1	Ca_kabuli_chr07	18588761	TT	CC	1946885904
SNP_P4_94572_18588812	NC_021166.1	Ca_kabuli_chr07	18588812	CC	AA	1946885906
SNP_P4_94574_18589037	NC_021166.1	Ca_kabuli_chr07	18589037	AA	CC	1946885908
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SNP_P4_94576_18589688	NC_021166.1	Ca_kabuli_chr07	18589688	TT	AA	1946885912
SNP_P4_94577_18589701	NC_021166.1	Ca_kabuli_chr07	18589701	GG	AA	1946885914
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SNP_P4_94579_18589762	NC_021166.1	Ca_kabuli_chr07	18589762	AA	GG	1946885918
SNP_P4_94580_18589764	NC_021166.1	Ca_kabuli_chr07	18589764	GG	AA	1946885920
SNP_P4_94581_18589787	NC_021166.1	Ca_kabuli_chr07	18589787	TT	CC	1946885922
SNP_P4_94582_18589838	NC_021166.1	Ca_kabuli_chr07	18589838	GG	AA	1946885924
SNP_P4_94583_18589912	NC_021166.1	Ca_kabuli_chr07	18589912	AA	GG	1946885926
SNP_P4_94584_18590096	NC_021166.1	Ca_kabuli_chr07	18590096	TT	GG	1946885928
SNP_P4_94585_18622104	NC_021166.1	Ca_kabuli_chr07	18622104	CC	TT	1946885930
SNP_P4_94586_18653754	NC_021166.1	Ca_kabuli_chr07	18653754	AA	TT	1946885932
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SNP_P4_94589_18694132	NC_021166.1	Ca_kabuli_chr07	18694132	TT	CC	1946885939
SNP_P4_94590_18706998	NC_021166.1	Ca_kabuli_chr07	18706998	GG	AA	1946885941
SNP_P4_94591_18710958	NC_021166.1	Ca_kabuli_chr07	18710958	AA	GG	1946885943
SNP_P4_94592_18722386	NC_021166.1	Ca_kabuli_chr07	18722386	TT	CC	1946885945
SNP_P4_94593_18739595	NC_021166.1	Ca_kabuli_chr07	18739595	GG	AA	1946885947
SNP_P4_94595_18760487	NC_021166.1	Ca_kabuli_chr07	18760487	GG	TT	1946885949
SNP_P4_94596_18764577	NC_021166.1	Ca_kabuli_chr07	18764577	CC	TT	1946885951
SNP_P4_94597_18765173	NC_021166.1	Ca_kabuli_chr07	18765173	CC	TT	1946885953
SNP_P4_94598_18765186	NC_021166.1	Ca_kabuli_chr07	18765186	GG	AA	1946885955
SNP_P4_94599_18765696	NC_021166.1	Ca_kabuli_chr07	18765696	TT	CC	1946885958
SNP_P4_94600_18769670	NC_021166.1	Ca_kabuli_chr07	18769670	AA	GG	1946885960
SNP_P4_94605_18780512	NC_021166.1	Ca_kabuli_chr07	18780512	CC	TT	1946885962
SNP_P4_94606_18792254	NC_021166.1	Ca_kabuli_chr07	18792254	TT	CC	1946885964
SNP_P4_94608_18820718	NC_021166.1	Ca_kabuli_chr07	18820718	AA	CC	1946885966

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_94610_18821546	NC_021166.1	Ca_kabuli_chr07	18821546	TT	GG	1946885971
SNP_P4_94611_18821548	NC_021166.1	Ca_kabuli_chr07	18821548	TT	CC	1946885974
SNP_P4_94612_18821560	NC_021166.1	Ca_kabuli_chr07	18821560	TT	CC	1946885976
SNP_P4_94613_18866718	NC_021166.1	Ca_kabuli_chr07	18866718	AA	CC	1946885978
SNP_P4_94614_18877964	NC_021166.1	Ca_kabuli_chr07	18877964	TT	GG	1946885980
SNP_P4_94616_18904509	NC_021166.1	Ca_kabuli_chr07	18904509	AA	GG	1946885982
SNP_P4_94617_18904524	NC_021166.1	Ca_kabuli_chr07	18904524	CC	TT	1946885984
SNP_P4_94618_18904580	NC_021166.1	Ca_kabuli_chr07	18904580	TT	GG	1946885985
SNP_P4_94619_18904699	NC_021166.1	Ca_kabuli_chr07	18904699	GG	AA	1946885986
SNP_P4_94620_18904858	NC_021166.1	Ca_kabuli_chr07	18904858	TT	AA	1946885987
SNP_P4_94622_18917924	NC_021166.1	Ca_kabuli_chr07	18917924	TT	CC	1946885989
SNP_P4_94623_18918206	NC_021166.1	Ca_kabuli_chr07	18918206	AA	CC	1946885992
SNP_P4_94624_18918339	NC_021166.1	Ca_kabuli_chr07	18918339	AA	TT	1946885994
SNP_P4_94625_18918410	NC_021166.1	Ca_kabuli_chr07	18918410	TT	AA	1946885996
SNP_P4_94626_18918812	NC_021166.1	Ca_kabuli_chr07	18918812	CC	TT	1946885998
SNP_P4_94628_18934159	NC_021166.1	Ca_kabuli_chr07	18934159	GG	AA	1946886000
SNP_P4_94629_18935285	NC_021166.1	Ca_kabuli_chr07	18935285	AA	TT	1946886003
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SNP_P4_94631_18935288	NC_021166.1	Ca_kabuli_chr07	18935288	GG	AA	1946886007
SNP_P4_94632_18935363	NC_021166.1	Ca_kabuli_chr07	18935363	GG	AA	1946886010
SNP_P4_94633_18935382	NC_021166.1	Ca_kabuli_chr07	18935382	GG	AA	1946886012
SNP_P4_94634_18935480	NC_021166.1	Ca_kabuli_chr07	18935480	AA	TT	1946886015
SNP_P4_94635_18935486	NC_021166.1	Ca_kabuli_chr07	18935486	TT	AA	1946886017
SNP_P4_94636_18935507	NC_021166.1	Ca_kabuli_chr07	18935507	TT	CC	1946886019
SNP_P4_94637_18939049	NC_021166.1	Ca_kabuli_chr07	18939049	AA	CC	1946886021
SNP_P4_94638_18940916	NC_021166.1	Ca_kabuli_chr07	18940916	TT	CC	1946886023
SNP_P4_94639_18974796	NC_021166.1	Ca_kabuli_chr07	18974796	GG	AA	1946886025
SNP_P4_94640_18975081	NC_021166.1	Ca_kabuli_chr07	18975081	AA	TT	1946886027
SNP_P4_94641_18982757	NC_021166.1	Ca_kabuli_chr07	18982757	TT	CC	1946886030
SNP_P4_94642_18984450	NC_021166.1	Ca_kabuli_chr07	18984450	AA	GG	1946886032
SNP_P4_94643_18984637	NC_021166.1	Ca_kabuli_chr07	18984637	TT	CC	1946886034
SNP_P4_94645_18984905	NC_021166.1	Ca_kabuli_chr07	18984905	TT	GG	1946886036
SNP_P4_94646_18985978	NC_021166.1	Ca_kabuli_chr07	18985978	GG	AA	1946886038
SNP_P4_94647_19004903	NC_021166.1	Ca_kabuli_chr07	19004903	TT	AA	1946886040
SNP_P4_94650_19011693	NC_021166.1	Ca_kabuli_chr07	19011693	AA	GG	1946886042
SNP_P4_94651_19025132	NC_021166.1	Ca_kabuli_chr07	19025132	TT	CC	1946886044
SNP_P4_94652_19025144	NC_021166.1	Ca_kabuli_chr07	19025144	GG	AA	1946886046
SNP_P4_94653_19025503	NC_021166.1	Ca_kabuli_chr07	19025503	GG	AA	1946886048
SNP_P4_94654_19025533	NC_021166.1	Ca_kabuli_chr07	19025533	GG	AA	1946886050
SNP_P4_94655_19052776	NC_021166.1	Ca_kabuli_chr07	19052776	GG	AA	1946886052
SNP_P4_94656_19054214	NC_021166.1	Ca_kabuli_chr07	19054214	GG	TT	1946886054

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_94658_19073947	NC_021166.1	Ca_kabuli_chr07	19073947	CC	TT	1946886058
SNP_P4_94659_19076107	NC_021166.1	Ca_kabuli_chr07	19076107	CC	TT	1946886060
SNP_P4_94661_19083950	NC_021166.1	Ca_kabuli_chr07	19083950	GG	AA	1946886062
SNP_P4_94662_19084287	NC_021166.1	Ca_kabuli_chr07	19084287	AA	GG	1946886064
SNP_P4_94663_19084306	NC_021166.1	Ca_kabuli_chr07	19084306	TT	CC	1946886066
SNP_P4_94664_19091963	NC_021166.1	Ca_kabuli_chr07	19091963	TT	CC	1946886068
SNP_P4_94666_19116980	NC_021166.1	Ca_kabuli_chr07	19116980	GG	AA	1946886070
SNP_P4_94667_19117043	NC_021166.1	Ca_kabuli_chr07	19117043	TT	CC	1946886072
SNP_P4_94668_19117082	NC_021166.1	Ca_kabuli_chr07	19117082	CC	AA	1946886074
SNP_P4_94669_19117123	NC_021166.1	Ca_kabuli_chr07	19117123	TT	GG	1946886076
SNP_P4_94670_19117173	NC_021166.1	Ca_kabuli_chr07	19117173	AA	GG	1946886078
SNP_P4_94671_19126760	NC_021166.1	Ca_kabuli_chr07	19126760	CC	TT	1946886081
SNP_P4_94672_19126833	NC_021166.1	Ca_kabuli_chr07	19126833	TT	CC	1946886083
SNP_P4_94674_19149854	NC_021166.1	Ca_kabuli_chr07	19149854	TT	CC	1946886085
SNP_P4_94675_19157390	NC_021166.1	Ca_kabuli_chr07	19157390	GG	AA	1946886087
SNP_P4_94676_19160537	NC_021166.1	Ca_kabuli_chr07	19160537	TT	CC	1946886089
SNP_P4_94678_19176986	NC_021166.1	Ca_kabuli_chr07	19176986	AA	GG	1946886091
SNP_P4_94679_19219614	NC_021166.1	Ca_kabuli_chr07	19219614	CC	TT	1946886093
SNP_P4_94680_19220529	NC_021166.1	Ca_kabuli_chr07	19220529	CC	TT	1946886095
SNP_P4_94683_19284372	NC_021166.1	Ca_kabuli_chr07	19284372	GG	AA	1946886097
SNP_P4_94684_19289322	NC_021166.1	Ca_kabuli_chr07	19289322	GG	AA	1946886099
SNP_P4_94685_19296559	NC_021166.1	Ca_kabuli_chr07	19296559	CC	GG	1946886101
SNP_P4_94686_19296571	NC_021166.1	Ca_kabuli_chr07	19296571	GG	AA	1946886103
SNP_P4_94687_19299823	NC_021166.1	Ca_kabuli_chr07	19299823	AA	GG	1946886105
SNP_P4_94688_19300639	NC_021166.1	Ca_kabuli_chr07	19300639	AA	TT	1946886107
SNP_P4_94689_19301865	NC_021166.1	Ca_kabuli_chr07	19301865	GG	TT	1946886109
SNP_P4_94691_19359983	NC_021166.1	Ca_kabuli_chr07	19359983	TT	CC	1946886111
SNP_P4_94692_19360192	NC_021166.1	Ca_kabuli_chr07	19360192	AA	GG	1946886113
SNP_P4_94693_19360215	NC_021166.1	Ca_kabuli_chr07	19360215	TT	AA	1946886115
SNP_P4_94694_19360226	NC_021166.1	Ca_kabuli_chr07	19360226	CC	AA	1946886117
SNP_P4_94695_19360291	NC_021166.1	Ca_kabuli_chr07	19360291	AA	GG	1946886119
SNP_P4_94696_19360296	NC_021166.1	Ca_kabuli_chr07	19360296	GG	AA	1946886121
SNP_P4_94697_19360339	NC_021166.1	Ca_kabuli_chr07	19360339	AA	CC	1946886123
SNP_P4_94698_19360519	NC_021166.1	Ca_kabuli_chr07	19360519	AA	GG	1946886125
SNP_P4_94699_19360608	NC_021166.1	Ca_kabuli_chr07	19360608	TT	AA	1946886127
SNP_P4_94700_19362434	NC_021166.1	Ca_kabuli_chr07	19362434	AA	GG	1946886129
SNP_P4_94701_19362444	NC_021166.1	Ca_kabuli_chr07	19362444	TT	CC	1946886131
SNP_P4_94702_19362457	NC_021166.1	Ca_kabuli_chr07	19362457	AA	GG	1946886133
SNP_P4_94703_19406086	NC_021166.1	Ca_kabuli_chr07	19406086	TT	CC	1946886135
SNP_P4_94704_19406089	NC_021166.1	Ca_kabuli_chr07	19406089	TT	GG	1946886137
SNP_P4_94705_19408645	NC_021166.1	Ca_kabuli_chr07	19408645	GG	AA	1946886139

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_94708_19446948	NC_021166.1	Ca_kabuli_chr07	19446948	GG	TT	1946886143
SNP_P4_94709_19485826	NC_021166.1	Ca_kabuli_chr07	19485826	AA	GG	1946886145
SNP_P4_94710_19505591	NC_021166.1	Ca_kabuli_chr07	19505591	CC	AA	1946886147
SNP_P4_94711_19510905	NC_021166.1	Ca_kabuli_chr07	19510905	AA	CC	1946886149
SNP_P4_94712_19510961	NC_021166.1	Ca_kabuli_chr07	19510961	AA	GG	1946886151
SNP_P4_94713_19510966	NC_021166.1	Ca_kabuli_chr07	19510966	TT	GG	1946886153
SNP_P4_94714_19510980	NC_021166.1	Ca_kabuli_chr07	19510980	TT	AA	1946886155
SNP_P4_94715_19511327	NC_021166.1	Ca_kabuli_chr07	19511327	TT	CC	1946886157
SNP_P4_94716_19511334	NC_021166.1	Ca_kabuli_chr07	19511334	AA	CC	1946886159
SNP_P4_94717_19516713	NC_021166.1	Ca_kabuli_chr07	19516713	GG	TT	1946886161
SNP_P4_94718_19516961	NC_021166.1	Ca_kabuli_chr07	19516961	AA	GG	1946886163
SNP_P4_94719_19517004	NC_021166.1	Ca_kabuli_chr07	19517004	GG	AA	1946886165
SNP_P4_94720_19517031	NC_021166.1	Ca_kabuli_chr07	19517031	TT	CC	1946886167
SNP_P4_94721_19517105	NC_021166.1	Ca_kabuli_chr07	19517105	CC	AA	1946886169
SNP_P4_94722_19528928	NC_021166.1	Ca_kabuli_chr07	19528928	AA	TT	1946886171
SNP_P4_94723_19530217	NC_021166.1	Ca_kabuli_chr07	19530217	AA	TT	1946886173
SNP_P4_94725_19535591	NC_021166.1	Ca_kabuli_chr07	19535591	TT	CC	1946886175
SNP_P4_94726_19547548	NC_021166.1	Ca_kabuli_chr07	19547548	CC	TT	1946886177
SNP_P4_94727_19553948	NC_021166.1	Ca_kabuli_chr07	19553948	GG	AA	1946886179
SNP_P4_94730_19573264	NC_021166.1	Ca_kabuli_chr07	19573264	TT	GG	1946886181
SNP_P4_94731_19580860	NC_021166.1	Ca_kabuli_chr07	19580860	AA	GG	1946886183
SNP_P4_94733_19583079	NC_021166.1	Ca_kabuli_chr07	19583079	GG	CC	1946886185
SNP_P4_94734_19583917	NC_021166.1	Ca_kabuli_chr07	19583917	TT	CC	1946886187
SNP_P4_94735_19584564	NC_021166.1	Ca_kabuli_chr07	19584564	CC	TT	1946886189
SNP_P4_94736_19584566	NC_021166.1	Ca_kabuli_chr07	19584566	CC	TT	1946886192
SNP_P4_94737_19584595	NC_021166.1	Ca_kabuli_chr07	19584595	TT	AA	1946886194
SNP_P4_94738_19584596	NC_021166.1	Ca_kabuli_chr07	19584596	TT	CC	1946886196
SNP_P4_94739_19584613	NC_021166.1	Ca_kabuli_chr07	19584613	AA	GG	1946886198
SNP_P4_94740_19584619	NC_021166.1	Ca_kabuli_chr07	19584619	AA	GG	1946886200
SNP_P4_94741_19584623	NC_021166.1	Ca_kabuli_chr07	19584623	AA	CC	1946886202
SNP_P4_94742_19584628	NC_021166.1	Ca_kabuli_chr07	19584628	AA	GG	1946886204
SNP_P4_94743_19584632	NC_021166.1	Ca_kabuli_chr07	19584632	TT	GG	1946886206
SNP_P4_94744_19584633	NC_021166.1	Ca_kabuli_chr07	19584633	AA	TT	1946886208
SNP_P4_94745_19584679	NC_021166.1	Ca_kabuli_chr07	19584679	AA	TT	1946886210
SNP_P4_94746_19584680	NC_021166.1	Ca_kabuli_chr07	19584680	GG	AA	1946886212
SNP_P4_94747_19584726	NC_021166.1	Ca_kabuli_chr07	19584726	AA	TT	1946886214
SNP_P4_94748_19584747	NC_021166.1	Ca_kabuli_chr07	19584747	AA	TT	1946886216
SNP_P4_94749_19584767	NC_021166.1	Ca_kabuli_chr07	19584767	CC	GG	1946886218
SNP_P4_94750_19584768	NC_021166.1	Ca_kabuli_chr07	19584768	CC	TT	1946886220
SNP_P4_94751_19584774	NC_021166.1	Ca_kabuli_chr07	19584774	GG	AA	1946886222
SNP_P4_94752_19586397	NC_021166.1	Ca_kabuli_chr07	19586397	AA	TT	1946886224

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_94757_19619016	NC_021166.1	Ca_kabuli_chr07	19619016	GG	TT	1946886228
SNP_P4_94758_19622474	NC_021166.1	Ca_kabuli_chr07	19622474	GG	AA	1946886230
SNP_P4_94759_19625491	NC_021166.1	Ca_kabuli_chr07	19625491	TT	CC	1946886232
SNP_P4_94760_19625691	NC_021166.1	Ca_kabuli_chr07	19625691	TT	CC	1946886234
SNP_P4_94761_19629058	NC_021166.1	Ca_kabuli_chr07	19629058	GG	AA	1946886236
SNP_P4_94762_19629119	NC_021166.1	Ca_kabuli_chr07	19629119	AA	CC	1946886238
SNP_P4_94763_19629507	NC_021166.1	Ca_kabuli_chr07	19629507	AA	GG	1946886240
SNP_P4_94764_19629514	NC_021166.1	Ca_kabuli_chr07	19629514	TT	CC	1946886242
SNP_P4_94765_19629519	NC_021166.1	Ca_kabuli_chr07	19629519	CC	GG	1946886244
SNP_P4_94766_19645923	NC_021166.1	Ca_kabuli_chr07	19645923	TT	CC	1946886246
SNP_P4_94767_19646854	NC_021166.1	Ca_kabuli_chr07	19646854	TT	GG	1946886248
SNP_P4_94768_19646955	NC_021166.1	Ca_kabuli_chr07	19646955	TT	AA	1946886250
SNP_P4_94769_19647299	NC_021166.1	Ca_kabuli_chr07	19647299	GG	AA	1946886252
SNP_P4_94770_19673042	NC_021166.1	Ca_kabuli_chr07	19673042	CC	GG	1946886254
SNP_P4_94771_19673232	NC_021166.1	Ca_kabuli_chr07	19673232	GG	AA	1946886256
SNP_P4_94772_19696220	NC_021166.1	Ca_kabuli_chr07	19696220	GG	CC	1946886258
SNP_P4_94773_19696221	NC_021166.1	Ca_kabuli_chr07	19696221	AA	CC	1946886260
SNP_P4_94774_19696235	NC_021166.1	Ca_kabuli_chr07	19696235	CC	AA	1946886262
SNP_P4_94775_19702869	NC_021166.1	Ca_kabuli_chr07	19702869	AA	TT	1946886264
SNP_P4_94776_19703397	NC_021166.1	Ca_kabuli_chr07	19703397	CC	TT	1946886266
SNP_P4_94777_19704841	NC_021166.1	Ca_kabuli_chr07	19704841	CC	TT	1946886268
SNP_P4_94779_19713216	NC_021166.1	Ca_kabuli_chr07	19713216	TT	CC	1946886270
SNP_P4_94782_19731801	NC_021166.1	Ca_kabuli_chr07	19731801	CC	TT	1946886272
SNP_P4_94783_19732025	NC_021166.1	Ca_kabuli_chr07	19732025	GG	AA	1946886274
SNP_P4_94784_19732045	NC_021166.1	Ca_kabuli_chr07	19732045	CC	GG	1946886276
SNP_P4_94785_19732089	NC_021166.1	Ca_kabuli_chr07	19732089	TT	CC	1946886278
SNP_P4_94786_19732117	NC_021166.1	Ca_kabuli_chr07	19732117	TT	CC	1946886280
SNP_P4_94787_19732168	NC_021166.1	Ca_kabuli_chr07	19732168	GG	AA	1946886282
SNP_P4_94788_19732182	NC_021166.1	Ca_kabuli_chr07	19732182	CC	TT	1946886284
SNP_P4_94789_19761229	NC_021166.1	Ca_kabuli_chr07	19761229	TT	CC	1946886286
SNP_P4_94790_19766454	NC_021166.1	Ca_kabuli_chr07	19766454	AA	GG	1946886288
SNP_P4_94791_19783191	NC_021166.1	Ca_kabuli_chr07	19783191	GG	AA	1946886290
SNP_P4_94792_19784982	NC_021166.1	Ca_kabuli_chr07	19784982	CC	AA	1946886292
SNP_P4_94793_19785008	NC_021166.1	Ca_kabuli_chr07	19785008	CC	TT	1946886294
SNP_P4_94794_19786156	NC_021166.1	Ca_kabuli_chr07	19786156	GG	CC	1946886296
SNP_P4_94796_19786413	NC_021166.1	Ca_kabuli_chr07	19786413	AA	GG	1946886298
SNP_P4_94798_19786603	NC_021166.1	Ca_kabuli_chr07	19786603	CC	AA	1946886300
SNP_P4_94799_19786609	NC_021166.1	Ca_kabuli_chr07	19786609	AA	TT	1946886302
SNP_P4_94800_19786645	NC_021166.1	Ca_kabuli_chr07	19786645	CC	AA	1946886304
SNP_P4_94801_19811962	NC_021166.1	Ca_kabuli_chr07	19811962	TT	CC	1946886306
SNP_P4_94802_19823137	NC_021166.1	Ca_kabuli_chr07	19823137	TT	CC	1946886308

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_94804_19823562	NC_021166.1	Ca_kabuli_chr07	19823562	GG	TT	1946886312
SNP_P4_94805_19830253	NC_021166.1	Ca_kabuli_chr07	19830253	AA	GG	1946886314
SNP_P4_94806_19841799	NC_021166.1	Ca_kabuli_chr07	19841799	TT	GG	1946886316
SNP_P4_94807_19846931	NC_021166.1	Ca_kabuli_chr07	19846931	TT	CC	1946886318
SNP_P4_94808_19848478	NC_021166.1	Ca_kabuli_chr07	19848478	CC	TT	1946886320
SNP_P4_94812_19860604	NC_021166.1	Ca_kabuli_chr07	19860604	TT	AA	1946886323
SNP_P4_94813_19860614	NC_021166.1	Ca_kabuli_chr07	19860614	CC	TT	1946886325
SNP_P4_94814_19860852	NC_021166.1	Ca_kabuli_chr07	19860852	TT	CC	1946886327
SNP_P4_94815_19860885	NC_021166.1	Ca_kabuli_chr07	19860885	CC	AA	1946886329
SNP_P4_94817_19863690	NC_021166.1	Ca_kabuli_chr07	19863690	TT	AA	1946886331
SNP_P4_94818_19866891	NC_021166.1	Ca_kabuli_chr07	19866891	TT	CC	1946886333
SNP_P4_94819_19866966	NC_021166.1	Ca_kabuli_chr07	19866966	AA	GG	1946886335
SNP_P4_94820_19867239	NC_021166.1	Ca_kabuli_chr07	19867239	GG	AA	1946886337
SNP_P4_94821_19872606	NC_021166.1	Ca_kabuli_chr07	19872606	TT	CC	1946886339
SNP_P4_94822_19874240	NC_021166.1	Ca_kabuli_chr07	19874240	GG	TT	1946886341
SNP_P4_94823_19884182	NC_021166.1	Ca_kabuli_chr07	19884182	CC	TT	1946886343
SNP_P4_94824_19886031	NC_021166.1	Ca_kabuli_chr07	19886031	AA	GG	1946886345
SNP_P4_94825_19886275	NC_021166.1	Ca_kabuli_chr07	19886275	AA	GG	1946886347
SNP_P4_94826_19889509	NC_021166.1	Ca_kabuli_chr07	19889509	CC	TT	1946886349
SNP_P4_94827_19927901	NC_021166.1	Ca_kabuli_chr07	19927901	AA	TT	1946886351
SNP_P4_94828_19957318	NC_021166.1	Ca_kabuli_chr07	19957318	GG	TT	1946886353
SNP_P4_94829_19959346	NC_021166.1	Ca_kabuli_chr07	19959346	AA	TT	1946886355
SNP_P4_94830_19977319	NC_021166.1	Ca_kabuli_chr07	19977319	AA	GG	1946886357
SNP_P4_94831_19977357	NC_021166.1	Ca_kabuli_chr07	19977357	TT	CC	1946886359
SNP_P4_94832_19977516	NC_021166.1	Ca_kabuli_chr07	19977516	AA	GG	1946886361
SNP_P4_94833_19977803	NC_021166.1	Ca_kabuli_chr07	19977803	AA	GG	1946886363
SNP_P4_94835_19995031	NC_021166.1	Ca_kabuli_chr07	19995031	GG	AA	1946886365
SNP_P4_94836_20029044	NC_021166.1	Ca_kabuli_chr07	20029044	AA	TT	1946886367
SNP_P4_94837_20032644	NC_021166.1	Ca_kabuli_chr07	20032644	CC	AA	1946886369
SNP_P4_94838_20032645	NC_021166.1	Ca_kabuli_chr07	20032645	TT	AA	1946886371
SNP_P4_94841_20032703	NC_021166.1	Ca_kabuli_chr07	20032703	TT	AA	1946886373
SNP_P4_94842_20032827	NC_021166.1	Ca_kabuli_chr07	20032827	TT	AA	1946886375
SNP_P4_94843_20032934	NC_021166.1	Ca_kabuli_chr07	20032934	TT	CC	1946886377
SNP_P4_94844_20034968	NC_021166.1	Ca_kabuli_chr07	20034968	CC	TT	1946886379
SNP_P4_94845_20035522	NC_021166.1	Ca_kabuli_chr07	20035522	AA	TT	1946886381
SNP_P4_94846_20035540	NC_021166.1	Ca_kabuli_chr07	20035540	GG	AA	1946886383
SNP_P4_94847_20036653	NC_021166.1	Ca_kabuli_chr07	20036653	GG	CC	1946886385
SNP_P4_94848_20036858	NC_021166.1	Ca_kabuli_chr07	20036858	GG	AA	1946886387
SNP_P4_94851_20060126	NC_021166.1	Ca_kabuli_chr07	20060126	AA	GG	1946886389
SNP_P4_94852_20060186	NC_021166.1	Ca_kabuli_chr07	20060186	CC	AA	1946886391
SNP_P4_94853_20060227	NC_021166.1	Ca_kabuli_chr07	20060227	CC	TT	1946886393

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_94855_20060484	NC_021166.1	Ca_kabuli_chr07	20060484	GG	AA	1946886397
SNP_P4_94856_20060526	NC_021166.1	Ca_kabuli_chr07	20060526	CC	TT	1946886399
SNP_P4_94857_20061081	NC_021166.1	Ca_kabuli_chr07	20061081	TT	CC	1946886401
SNP_P4_94858_20077992	NC_021166.1	Ca_kabuli_chr07	20077992	GG	CC	1946886403
SNP_P4_94859_20077996	NC_021166.1	Ca_kabuli_chr07	20077996	AA	GG	1946886405
SNP_P4_94860_20077997	NC_021166.1	Ca_kabuli_chr07	20077997	TT	GG	1946886407
SNP_P4_94861_20078378	NC_021166.1	Ca_kabuli_chr07	20078378	TT	CC	1946886409
SNP_P4_94862_20078442	NC_021166.1	Ca_kabuli_chr07	20078442	GG	AA	1946886411
SNP_P4_94863_20119198	NC_021166.1	Ca_kabuli_chr07	20119198	AA	GG	1946886413
SNP_P4_94864_20144141	NC_021166.1	Ca_kabuli_chr07	20144141	GG	TT	1946886415
SNP_P4_94865_20149743	NC_021166.1	Ca_kabuli_chr07	20149743	AA	TT	1946886417
SNP_P4_94866_20149744	NC_021166.1	Ca_kabuli_chr07	20149744	TT	GG	1946886419
SNP_P4_94869_20164007	NC_021166.1	Ca_kabuli_chr07	20164007	TT	CC	1946886421
SNP_P4_94870_20164010	NC_021166.1	Ca_kabuli_chr07	20164010	AA	TT	1946886424
SNP_P4_94872_20172194	NC_021166.1	Ca_kabuli_chr07	20172194	TT	AA	1946886426
SNP_P4_94873_20172199	NC_021166.1	Ca_kabuli_chr07	20172199	TT	CC	1946886428
SNP_P4_94874_20172527	NC_021166.1	Ca_kabuli_chr07	20172527	AA	GG	1946886430
SNP_P4_94875_20172548	NC_021166.1	Ca_kabuli_chr07	20172548	CC	TT	1946886432
SNP_P4_94876_20172574	NC_021166.1	Ca_kabuli_chr07	20172574	TT	GG	1946886434
SNP_P4_94877_20172583	NC_021166.1	Ca_kabuli_chr07	20172583	AA	GG	1946886436
SNP_P4_94878_20211778	NC_021166.1	Ca_kabuli_chr07	20211778	CC	TT	1946886438
SNP_P4_94879_20215954	NC_021166.1	Ca_kabuli_chr07	20215954	TT	GG	1946886440
SNP_P4_94880_20217423	NC_021166.1	Ca_kabuli_chr07	20217423	AA	GG	1946886442
SNP_P4_94881_20217434	NC_021166.1	Ca_kabuli_chr07	20217434	TT	AA	1946886444
SNP_P4_94882_20217532	NC_021166.1	Ca_kabuli_chr07	20217532	CC	GG	1946886446
SNP_P4_94883_20217636	NC_021166.1	Ca_kabuli_chr07	20217636	TT	GG	1946886448
SNP_P4_94884_20217654	NC_021166.1	Ca_kabuli_chr07	20217654	AA	GG	1946886450
SNP_P4_94885_20217901	NC_021166.1	Ca_kabuli_chr07	20217901	TT	CC	1946886452
SNP_P4_94886_20217919	NC_021166.1	Ca_kabuli_chr07	20217919	AA	GG	1946886454
SNP_P4_94887_20217931	NC_021166.1	Ca_kabuli_chr07	20217931	TT	CC	1946886456
SNP_P4_94888_20217966	NC_021166.1	Ca_kabuli_chr07	20217966	TT	CC	1946886458
SNP_P4_94889_20217972	NC_021166.1	Ca_kabuli_chr07	20217972	CC	TT	1946886460
SNP_P4_94890_20217980	NC_021166.1	Ca_kabuli_chr07	20217980	TT	AA	1946886462
SNP_P4_94891_20217994	NC_021166.1	Ca_kabuli_chr07	20217994	TT	CC	1946886464
SNP_P4_94892_20221313	NC_021166.1	Ca_kabuli_chr07	20221313	GG	AA	1946886466
SNP_P4_94893_20225429	NC_021166.1	Ca_kabuli_chr07	20225429	CC	AA	1946886468
SNP_P4_94894_20225430	NC_021166.1	Ca_kabuli_chr07	20225430	TT	CC	1946886470
SNP_P4_94895_20251949	NC_021166.1	Ca_kabuli_chr07	20251949	AA	GG	1946886472
SNP_P4_94896_20251950	NC_021166.1	Ca_kabuli_chr07	20251950	TT	GG	1946886473
SNP_P4_94897_20251960	NC_021166.1	Ca_kabuli_chr07	20251960	GG	AA	1946886475
SNP_P4_94898_20251970	NC_021166.1	Ca_kabuli_chr07	20251970	GG	AA	1946886478

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_94899_20251982	NC_021166.1	Ca_kabuli_chr07	20251982	TT	AA	1946886480
SNP_P4_94900_20252334	NC_021166.1	Ca_kabuli_chr07	20252334	TT	AA	1946886482
SNP_P4_94901_20252340	NC_021166.1	Ca_kabuli_chr07	20252340	GG	AA	1946886484
SNP_P4_94902_20252376	NC_021166.1	Ca_kabuli_chr07	20252376	GG	AA	1946886486
SNP_P4_94903_20252392	NC_021166.1	Ca_kabuli_chr07	20252392	TT	CC	1946886488
SNP_P4_94905_20252613	NC_021166.1	Ca_kabuli_chr07	20252613	AA	GG	1946886490
SNP_P4_94906_20252782	NC_021166.1	Ca_kabuli_chr07	20252782	AA	GG	1946886492
SNP_P4_94908_20331829	NC_021166.1	Ca_kabuli_chr07	20331829	CC	AA	1946886494
SNP_P4_94909_20332085	NC_021166.1	Ca_kabuli_chr07	20332085	TT	CC	1946886496
SNP_P4_94912_20358954	NC_021166.1	Ca_kabuli_chr07	20358954	TT	CC	1946886498
SNP_P4_94913_20363219	NC_021166.1	Ca_kabuli_chr07	20363219	GG	AA	1946886500
SNP_P4_94914_20369857	NC_021166.1	Ca_kabuli_chr07	20369857	CC	TT	1946886502
SNP_P4_94915_20371532	NC_021166.1	Ca_kabuli_chr07	20371532	CC	AA	1946886505
SNP_P4_94916_20387544	NC_021166.1	Ca_kabuli_chr07	20387544	TT	GG	1946886507
SNP_P4_94917_20390273	NC_021166.1	Ca_kabuli_chr07	20390273	TT	CC	1946886509
SNP_P4_94918_20390284	NC_021166.1	Ca_kabuli_chr07	20390284	CC	TT	1946886511
SNP_P4_94919_20406078	NC_021166.1	Ca_kabuli_chr07	20406078	AA	CC	1946886513
SNP_P4_94920_20419103	NC_021166.1	Ca_kabuli_chr07	20419103	CC	TT	1946886515
SNP_P4_94921_20422960	NC_021166.1	Ca_kabuli_chr07	20422960	CC	AA	1946886518
SNP_P4_94922_20434892	NC_021166.1	Ca_kabuli_chr07	20434892	GG	AA	1946886520
SNP_P4_94923_20435694	NC_021166.1	Ca_kabuli_chr07	20435694	GG	AA	1946886522
SNP_P4_94924_20443388	NC_021166.1	Ca_kabuli_chr07	20443388	TT	CC	1946886524
SNP_P4_94925_20443420	NC_021166.1	Ca_kabuli_chr07	20443420	CC	GG	1946886526
SNP_P4_94926_20449853	NC_021166.1	Ca_kabuli_chr07	20449853	GG	TT	1946886528
SNP_P4_94927_20450020	NC_021166.1	Ca_kabuli_chr07	20450020	GG	AA	1946886530
SNP_P4_94928_20450245	NC_021166.1	Ca_kabuli_chr07	20450245	GG	AA	1946886532
SNP_P4_94929_20450248	NC_021166.1	Ca_kabuli_chr07	20450248	GG	AA	1946886534
SNP_P4_94930_20450586	NC_021166.1	Ca_kabuli_chr07	20450586	TT	AA	1946886536
SNP_P4_94931_20450908	NC_021166.1	Ca_kabuli_chr07	20450908	AA	GG	1946886538
SNP_P4_94932_20455488	NC_021166.1	Ca_kabuli_chr07	20455488	AA	GG	1946886540
SNP_P4_94933_20455494	NC_021166.1	Ca_kabuli_chr07	20455494	GG	AA	1946886542
SNP_P4_94934_20456736	NC_021166.1	Ca_kabuli_chr07	20456736	CC	TT	1946886544
SNP_P4_94935_20456850	NC_021166.1	Ca_kabuli_chr07	20456850	CC	GG	1946886546
SNP_P4_94936_20457397	NC_021166.1	Ca_kabuli_chr07	20457397	GG	AA	1946886548
SNP_P4_94937_20457563	NC_021166.1	Ca_kabuli_chr07	20457563	AA	TT	1946886550
SNP_P4_94938_20458155	NC_021166.1	Ca_kabuli_chr07	20458155	TT	CC	1946886552
SNP_P4_94939_20463232	NC_021166.1	Ca_kabuli_chr07	20463232	TT	AA	1946886554
SNP_P4_94940_20463294	NC_021166.1	Ca_kabuli_chr07	20463294	CC	TT	1946886556
SNP_P4_94941_20463398	NC_021166.1	Ca_kabuli_chr07	20463398	AA	GG	1946886558
SNP_P4_94942_20463456	NC_021166.1	Ca_kabuli_chr07	20463456	TT	GG	1946886560
SNP_P4_94943_20463608	NC_021166.1	Ca_kabuli_chr07	20463608	CC	GG	1946886562
SNP_P4_94944_20463806	NC_021166.1	Ca_kabuli_chr07	20463806	CC	GG	1946886564

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_94945_20463810	NC_021166.1	Ca_kabuli_chr07	20463810	CC	TT	1946886566
SNP_P4_94946_20463874	NC_021166.1	Ca_kabuli_chr07	20463874	CC	TT	1946886568
SNP_P4_94947_20464013	NC_021166.1	Ca_kabuli_chr07	20464013	GG	AA	1946886570
SNP_P4_94948_20464228	NC_021166.1	Ca_kabuli_chr07	20464228	AA	TT	1946886572
SNP_P4_94949_20474985	NC_021166.1	Ca_kabuli_chr07	20474985	TT	CC	1946886574
SNP_P4_94950_20475305	NC_021166.1	Ca_kabuli_chr07	20475305	TT	CC	1946886576
SNP_P4_94951_20475319	NC_021166.1	Ca_kabuli_chr07	20475319	AA	GG	1946886578
SNP_P4_94952_20475361	NC_021166.1	Ca_kabuli_chr07	20475361	GG	CC	1946886580
SNP_P4_94953_20475383	NC_021166.1	Ca_kabuli_chr07	20475383	AA	CC	1946886582
SNP_P4_94954_20475442	NC_021166.1	Ca_kabuli_chr07	20475442	AA	CC	1946886584
SNP_P4_94955_20475529	NC_021166.1	Ca_kabuli_chr07	20475529	CC	AA	1946886586
SNP_P4_94956_20476776	NC_021166.1	Ca_kabuli_chr07	20476776	TT	CC	1946886588
SNP_P4_94957_20476952	NC_021166.1	Ca_kabuli_chr07	20476952	GG	AA	1946886590
SNP_P4_94958_20480450	NC_021166.1	Ca_kabuli_chr07	20480450	GG	CC	1946886592
SNP_P4_94959_20480473	NC_021166.1	Ca_kabuli_chr07	20480473	AA	TT	1946886594
SNP_P4_94960_20480594	NC_021166.1	Ca_kabuli_chr07	20480594	AA	CC	1946886596
SNP_P4_94961_20480621	NC_021166.1	Ca_kabuli_chr07	20480621	AA	GG	1946886598
SNP_P4_94962_20480664	NC_021166.1	Ca_kabuli_chr07	20480664	GG	AA	1946886600
SNP_P4_94963_20480689	NC_021166.1	Ca_kabuli_chr07	20480689	TT	CC	1946886602
SNP_P4_94964_20480800	NC_021166.1	Ca_kabuli_chr07	20480800	CC	TT	1946886604
SNP_P4_94965_20480804	NC_021166.1	Ca_kabuli_chr07	20480804	AA	TT	1946886606
SNP_P4_94966_20480901	NC_021166.1	Ca_kabuli_chr07	20480901	GG	AA	1946886608
SNP_P4_94967_20480989	NC_021166.1	Ca_kabuli_chr07	20480989	AA	CC	1946886610
SNP_P4_94968_20481891	NC_021166.1	Ca_kabuli_chr07	20481891	AA	GG	1946886612
SNP_P4_94969_20482201	NC_021166.1	Ca_kabuli_chr07	20482201	TT	CC	1946886614
SNP_P4_94970_20482203	NC_021166.1	Ca_kabuli_chr07	20482203	CC	TT	1946886616
SNP_P4_94971_20482213	NC_021166.1	Ca_kabuli_chr07	20482213	AA	TT	1946886618
SNP_P4_94972_20482229	NC_021166.1	Ca_kabuli_chr07	20482229	CC	TT	1946886620
SNP_P4_94973_20482261	NC_021166.1	Ca_kabuli_chr07	20482261	GG	AA	1946886622
SNP_P4_94974_20482660	NC_021166.1	Ca_kabuli_chr07	20482660	TT	AA	1946886624
SNP_P4_94975_20484983	NC_021166.1	Ca_kabuli_chr07	20484983	AA	GG	1946886626
SNP_P4_94976_20485171	NC_021166.1	Ca_kabuli_chr07	20485171	GG	TT	1946886628
SNP_P4_94978_20485824	NC_021166.1	Ca_kabuli_chr07	20485824	CC	TT	1946886630
SNP_P4_94979_20485957	NC_021166.1	Ca_kabuli_chr07	20485957	TT	CC	1946886632
SNP_P4_94981_20489152	NC_021166.1	Ca_kabuli_chr07	20489152	CC	TT	1946886634
SNP_P4_94982_20490775	NC_021166.1	Ca_kabuli_chr07	20490775	TT	CC	1946886636
SNP_P4_94983_20493285	NC_021166.1	Ca_kabuli_chr07	20493285	CC	TT	1946886638
SNP_P4_94985_20494391	NC_021166.1	Ca_kabuli_chr07	20494391	GG	AA	1946886640
SNP_P4_94986_20494410	NC_021166.1	Ca_kabuli_chr07	20494410	CC	TT	1946886642
SNP_P4_94987_20495376	NC_021166.1	Ca_kabuli_chr07	20495376	CC	TT	1946886644
SNP_P4_94988_20496378	NC_021166.1	Ca_kabuli_chr07	20496378	AA	GG	1946886646
SNP_P4_94989_20496513	NC_021166.1	Ca_kabuli_chr07	20496513	AA	GG	1946886648

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_94991_20497126	NC_021166.1	Ca_kabuli_chr07	20497126	TT	AA	1946886652
SNP_P4_94992_20498552	NC_021166.1	Ca_kabuli_chr07	20498552	CC	TT	1946886654
SNP_P4_94993_20498855	NC_021166.1	Ca_kabuli_chr07	20498855	CC	AA	1946886656
SNP_P4_94996_20500138	NC_021166.1	Ca_kabuli_chr07	20500138	AA	GG	1946886658
SNP_P4_94997_20501378	NC_021166.1	Ca_kabuli_chr07	20501378	AA	TT	1946886660
SNP_P4_94998_20501379	NC_021166.1	Ca_kabuli_chr07	20501379	TT	AA	1946886662
SNP_P4_94999_20501697	NC_021166.1	Ca_kabuli_chr07	20501697	TT	CC	1946886664
SNP_P4_95000_20501729	NC_021166.1	Ca_kabuli_chr07	20501729	TT	CC	1946886666
SNP_P4_95002_20502331	NC_021166.1	Ca_kabuli_chr07	20502331	TT	CC	1946886668
SNP_P4_95004_20503340	NC_021166.1	Ca_kabuli_chr07	20503340	CC	AA	1946886670
SNP_P4_95005_20503371	NC_021166.1	Ca_kabuli_chr07	20503371	CC	AA	1946886672
SNP_P4_95006_20503753	NC_021166.1	Ca_kabuli_chr07	20503753	CC	GG	1946886674
SNP_P4_95009_20505874	NC_021166.1	Ca_kabuli_chr07	20505874	AA	GG	1946886676
SNP_P4_95012_20506171	NC_021166.1	Ca_kabuli_chr07	20506171	AA	CC	1946886678
SNP_P4_95013_20506286	NC_021166.1	Ca_kabuli_chr07	20506286	CC	TT	1946886680
SNP_P4_95014_20506353	NC_021166.1	Ca_kabuli_chr07	20506353	CC	TT	1946886682
SNP_P4_95015_20508004	NC_021166.1	Ca_kabuli_chr07	20508004	AA	GG	1946886684
SNP_P4_95017_20509143	NC_021166.1	Ca_kabuli_chr07	20509143	GG	CC	1946886686
SNP_P4_95018_20509156	NC_021166.1	Ca_kabuli_chr07	20509156	GG	AA	1946886688
SNP_P4_95019_20510195	NC_021166.1	Ca_kabuli_chr07	20510195	AA	CC	1946886691
SNP_P4_95023_20514426	NC_021166.1	Ca_kabuli_chr07	20514426	CC	TT	1946886693
SNP_P4_95024_20514660	NC_021166.1	Ca_kabuli_chr07	20514660	AA	TT	1946886695
SNP_P4_95025_20517119	NC_021166.1	Ca_kabuli_chr07	20517119	TT	CC	1946886697
SNP_P4_95026_20518523	NC_021166.1	Ca_kabuli_chr07	20518523	TT	CC	1946886699
SNP_P4_95027_20519691	NC_021166.1	Ca_kabuli_chr07	20519691	AA	GG	1946886701
SNP_P4_95028_20519733	NC_021166.1	Ca_kabuli_chr07	20519733	AA	GG	1946886703
SNP_P4_95030_20520151	NC_021166.1	Ca_kabuli_chr07	20520151	TT	CC	1946886705
SNP_P4_95031_20520432	NC_021166.1	Ca_kabuli_chr07	20520432	AA	GG	1946886707
SNP_P4_95032_20523797	NC_021166.1	Ca_kabuli_chr07	20523797	TT	CC	1946886709
SNP_P4_95033_20524920	NC_021166.1	Ca_kabuli_chr07	20524920	AA	GG	1946886711
SNP_P4_95035_20529180	NC_021166.1	Ca_kabuli_chr07	20529180	CC	AA	1946886713
SNP_P4_95037_20533938	NC_021166.1	Ca_kabuli_chr07	20533938	GG	CC	1946886715
SNP_P4_95038_20534300	NC_021166.1	Ca_kabuli_chr07	20534300	CC	TT	1946886718
SNP_P4_95039_20534365	NC_021166.1	Ca_kabuli_chr07	20534365	TT	CC	1946886720
SNP_P4_95040_20534371	NC_021166.1	Ca_kabuli_chr07	20534371	CC	TT	1946886722
SNP_P4_95041_20534868	NC_021166.1	Ca_kabuli_chr07	20534868	CC	TT	1946886724
SNP_P4_95042_20536283	NC_021166.1	Ca_kabuli_chr07	20536283	CC	TT	1946886726
SNP_P4_95043_20536317	NC_021166.1	Ca_kabuli_chr07	20536317	TT	CC	1946886728
SNP_P4_95044_20536318	NC_021166.1	Ca_kabuli_chr07	20536318	GG	AA	1946886730
SNP_P4_95045_20536606	NC_021166.1	Ca_kabuli_chr07	20536606	CC	TT	1946886733
SNP_P4_95046_20536621	NC_021166.1	Ca_kabuli_chr07	20536621	TT	CC	1946886735

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_95049_20539290	NC_021166.1	Ca_kabuli_chr07	20539290	TT	CC	1946886739
SNP_P4_95050_20539373	NC_021166.1	Ca_kabuli_chr07	20539373	AA	GG	1946886741
SNP_P4_95052_20540111	NC_021166.1	Ca_kabuli_chr07	20540111	AA	GG	1946886743
SNP_P4_95053_20540570	NC_021166.1	Ca_kabuli_chr07	20540570	AA	TT	1946886745
SNP_P4_95054_20540780	NC_021166.1	Ca_kabuli_chr07	20540780	CC	TT	1946886747
SNP_P4_95055_20544403	NC_021166.1	Ca_kabuli_chr07	20544403	GG	AA	1946886749
SNP_P4_95056_20544515	NC_021166.1	Ca_kabuli_chr07	20544515	AA	GG	1946886751
SNP_P4_95057_20544707	NC_021166.1	Ca_kabuli_chr07	20544707	AA	TT	1946886753
SNP_P4_95058_20544711	NC_021166.1	Ca_kabuli_chr07	20544711	AA	GG	1946886755
SNP_P4_95059_20545373	NC_021166.1	Ca_kabuli_chr07	20545373	TT	GG	1946886757
SNP_P4_95060_20545520	NC_021166.1	Ca_kabuli_chr07	20545520	GG	AA	1946886759
SNP_P4_95061_20545541	NC_021166.1	Ca_kabuli_chr07	20545541	AA	TT	1946886761
SNP_P4_95062_20548010	NC_021166.1	Ca_kabuli_chr07	20548010	GG	AA	1946886763
SNP_P4_95063_20548023	NC_021166.1	Ca_kabuli_chr07	20548023	TT	GG	1946886765
SNP_P4_95064_20548029	NC_021166.1	Ca_kabuli_chr07	20548029	CC	TT	1946886767
SNP_P4_95065_20548083	NC_021166.1	Ca_kabuli_chr07	20548083	CC	TT	1946886769
SNP_P4_95066_20553483	NC_021166.1	Ca_kabuli_chr07	20553483	TT	CC	1946886771
SNP_P4_95067_20553503	NC_021166.1	Ca_kabuli_chr07	20553503	CC	TT	1946886773
SNP_P4_95068_20553528	NC_021166.1	Ca_kabuli_chr07	20553528	AA	GG	1946886775
SNP_P4_95070_20554376	NC_021166.1	Ca_kabuli_chr07	20554376	TT	GG	1946886777
SNP_P4_95071_20555988	NC_021166.1	Ca_kabuli_chr07	20555988	CC	TT	1946886779
SNP_P4_95072_20557032	NC_021166.1	Ca_kabuli_chr07	20557032	TT	CC	1946886781
SNP_P4_95074_20557295	NC_021166.1	Ca_kabuli_chr07	20557295	GG	AA	1946886782
SNP_P4_95075_20557324	NC_021166.1	Ca_kabuli_chr07	20557324	GG	TT	1946886784
SNP_P4_95076_20557365	NC_021166.1	Ca_kabuli_chr07	20557365	CC	AA	1946886786
SNP_P4_95078_20558696	NC_021166.1	Ca_kabuli_chr07	20558696	TT	GG	1946886788
SNP_P4_95079_20558700	NC_021166.1	Ca_kabuli_chr07	20558700	TT	CC	1946886790
SNP_P4_95080_20558745	NC_021166.1	Ca_kabuli_chr07	20558745	TT	CC	1946886792
SNP_P4_95083_20558972	NC_021166.1	Ca_kabuli_chr07	20558972	TT	GG	1946886794
SNP_P4_95084_20559506	NC_021166.1	Ca_kabuli_chr07	20559506	GG	TT	1946886796
SNP_P4_95085_20559652	NC_021166.1	Ca_kabuli_chr07	20559652	GG	TT	1946886798
SNP_P4_95087_20559706	NC_021166.1	Ca_kabuli_chr07	20559706	TT	CC	1946886800
SNP_P4_95088_20559775	NC_021166.1	Ca_kabuli_chr07	20559775	TT	AA	1946886802
SNP_P4_95089_20559813	NC_021166.1	Ca_kabuli_chr07	20559813	AA	CC	1946886804
SNP_P4_95090_20559846	NC_021166.1	Ca_kabuli_chr07	20559846	TT	CC	1946886806
SNP_P4_95091_20559886	NC_021166.1	Ca_kabuli_chr07	20559886	GG	AA	1946886807
SNP_P4_95092_20559935	NC_021166.1	Ca_kabuli_chr07	20559935	GG	TT	1946886809
SNP_P4_95093_20559943	NC_021166.1	Ca_kabuli_chr07	20559943	CC	TT	1946886811
SNP_P4_95094_20559950	NC_021166.1	Ca_kabuli_chr07	20559950	TT	AA	1946886813
SNP_P4_95095_20560385	NC_021166.1	Ca_kabuli_chr07	20560385	CC	AA	1946886815
SNP_P4_95096_20560418	NC_021166.1	Ca_kabuli_chr07	20560418	GG	AA	1946886817

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_95097_20560437	NC_021166.1	Ca_kabuli_chr07	20560437	CC	TT	1946886819
SNP_P4_95098_20560439	NC_021166.1	Ca_kabuli_chr07	20560439	TT	AA	1946886821
SNP_P4_95099_20560448	NC_021166.1	Ca_kabuli_chr07	20560448	AA	CC	1946886823
SNP_P4_95100_20560457	NC_021166.1	Ca_kabuli_chr07	20560457	GG	AA	1946886825
SNP_P4_95101_20561128	NC_021166.1	Ca_kabuli_chr07	20561128	AA	GG	1946886827
SNP_P4_95102_20561145	NC_021166.1	Ca_kabuli_chr07	20561145	GG	AA	1946886829
SNP_P4_95104_20563982	NC_021166.1	Ca_kabuli_chr07	20563982	GG	AA	1946886831
SNP_P4_95105_20564024	NC_021166.1	Ca_kabuli_chr07	20564024	GG	AA	1946886833
SNP_P4_95106_20564266	NC_021166.1	Ca_kabuli_chr07	20564266	GG	AA	1946886835
SNP_P4_95107_20564269	NC_021166.1	Ca_kabuli_chr07	20564269	CC	TT	1946886837
SNP_P4_95108_20564297	NC_021166.1	Ca_kabuli_chr07	20564297	AA	GG	1946886839
SNP_P4_95109_20564968	NC_021166.1	Ca_kabuli_chr07	20564968	GG	CC	1946886841
SNP_P4_95110_20565999	NC_021166.1	Ca_kabuli_chr07	20565999	AA	GG	1946886843
SNP_P4_95111_20566033	NC_021166.1	Ca_kabuli_chr07	20566033	GG	CC	1946886845
SNP_P4_95112_20566034	NC_021166.1	Ca_kabuli_chr07	20566034	AA	TT	1946886847
SNP_P4_95116_20566434	NC_021166.1	Ca_kabuli_chr07	20566434	TT	CC	1946886849
SNP_P4_95117_20566435	NC_021166.1	Ca_kabuli_chr07	20566435	TT	CC	1946886851
SNP_P4_95118_20566441	NC_021166.1	Ca_kabuli_chr07	20566441	TT	AA	1946886853
SNP_P4_95119_20566484	NC_021166.1	Ca_kabuli_chr07	20566484	GG	AA	1946886855
SNP_P4_95123_20567034	NC_021166.1	Ca_kabuli_chr07	20567034	GG	TT	1946886857
SNP_P4_95124_20567053	NC_021166.1	Ca_kabuli_chr07	20567053	CC	TT	1946886859
SNP_P4_95125_20567091	NC_021166.1	Ca_kabuli_chr07	20567091	AA	TT	1946886861
SNP_P4_95126_20567536	NC_021166.1	Ca_kabuli_chr07	20567536	TT	CC	1946886863
SNP_P4_95127_20571077	NC_021166.1	Ca_kabuli_chr07	20571077	AA	TT	1946886865
SNP_P4_95130_20573916	NC_021166.1	Ca_kabuli_chr07	20573916	GG	TT	1946886867
SNP_P4_95131_20574691	NC_021166.1	Ca_kabuli_chr07	20574691	GG	TT	1946886869
SNP_P4_95133_20575014	NC_021166.1	Ca_kabuli_chr07	20575014	AA	TT	1946886871
SNP_P4_95134_20575290	NC_021166.1	Ca_kabuli_chr07	20575290	TT	CC	1946886873
SNP_P4_95135_20575493	NC_021166.1	Ca_kabuli_chr07	20575493	AA	GG	1946886875
SNP_P4_95136_20577119	NC_021166.1	Ca_kabuli_chr07	20577119	AA	GG	1946886877
SNP_P4_95137_20578245	NC_021166.1	Ca_kabuli_chr07	20578245	AA	GG	1946886879
SNP_P4_95138_20578274	NC_021166.1	Ca_kabuli_chr07	20578274	GG	AA	1946886881
SNP_P4_95139_20578293	NC_021166.1	Ca_kabuli_chr07	20578293	GG	AA	1946886883
SNP_P4_95140_20578296	NC_021166.1	Ca_kabuli_chr07	20578296	GG	CC	1946886885
SNP_P4_95141_20578299	NC_021166.1	Ca_kabuli_chr07	20578299	GG	AA	1946886887
SNP_P4_95142_20578305	NC_021166.1	Ca_kabuli_chr07	20578305	GG	TT	1946886889
SNP_P4_95143_20578372	NC_021166.1	Ca_kabuli_chr07	20578372	CC	TT	1946886891
SNP_P4_95144_20578393	NC_021166.1	Ca_kabuli_chr07	20578393	AA	CC	1946886893
SNP_P4_95145_20578424	NC_021166.1	Ca_kabuli_chr07	20578424	GG	AA	1946886895
SNP_P4_95146_20578436	NC_021166.1	Ca_kabuli_chr07	20578436	TT	CC	1946886897
SNP_P4_95147_20578450	NC_021166.1	Ca_kabuli_chr07	20578450	AA	GG	1946886899
SNP_P4_95148_20593489	NC_021166.1	Ca_kabuli_chr07	20593489	CC	TT	1946886901

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_95150_20597619	NC_021166.1	Ca_kabuli_chr07	20597619	AA	GG	1946886905
SNP_P4_95151_20597652	NC_021166.1	Ca_kabuli_chr07	20597652	TT	CC	1946886907
SNP_P4_95153_20603334	NC_021166.1	Ca_kabuli_chr07	20603334	CC	TT	1946886909
SNP_P4_95154_20604104	NC_021166.1	Ca_kabuli_chr07	20604104	TT	CC	1946886911
SNP_P4_95156_20606889	NC_021166.1	Ca_kabuli_chr07	20606889	AA	CC	1946886913
SNP_P4_95157_20609035	NC_021166.1	Ca_kabuli_chr07	20609035	TT	CC	1946886915
SNP_P4_95159_20615180	NC_021166.1	Ca_kabuli_chr07	20615180	AA	CC	1946886916
SNP_P4_95160_20615515	NC_021166.1	Ca_kabuli_chr07	20615515	GG	AA	1946886918
SNP_P4_95162_20616625	NC_021166.1	Ca_kabuli_chr07	20616625	AA	TT	1946886920
SNP_P4_95163_20617280	NC_021166.1	Ca_kabuli_chr07	20617280	TT	GG	1946886922
SNP_P4_95164_20617324	NC_021166.1	Ca_kabuli_chr07	20617324	AA	GG	1946886924
SNP_P4_95165_20617446	NC_021166.1	Ca_kabuli_chr07	20617446	CC	TT	1946886926
SNP_P4_95166_20617458	NC_021166.1	Ca_kabuli_chr07	20617458	TT	CC	1946886928
SNP_P4_95167_20617460	NC_021166.1	Ca_kabuli_chr07	20617460	TT	CC	1946886930
SNP_P4_95169_20619442	NC_021166.1	Ca_kabuli_chr07	20619442	GG	AA	1946886932
SNP_P4_95170_20619746	NC_021166.1	Ca_kabuli_chr07	20619746	TT	CC	1946886934
SNP_P4_95171_20621295	NC_021166.1	Ca_kabuli_chr07	20621295	AA	GG	1946886936
SNP_P4_95172_20621325	NC_021166.1	Ca_kabuli_chr07	20621325	AA	GG	1946886938
SNP_P4_95173_20621730	NC_021166.1	Ca_kabuli_chr07	20621730	AA	GG	1946886940
SNP_P4_95174_20623152	NC_021166.1	Ca_kabuli_chr07	20623152	CC	AA	1946886942
SNP_P4_95177_20623795	NC_021166.1	Ca_kabuli_chr07	20623795	AA	CC	1946886944
SNP_P4_95179_20625442	NC_021166.1	Ca_kabuli_chr07	20625442	CC	TT	1946886946
SNP_P4_95180_20625945	NC_021166.1	Ca_kabuli_chr07	20625945	GG	AA	1946886948
SNP_P4_95181_20626261	NC_021166.1	Ca_kabuli_chr07	20626261	GG	AA	1946886950
SNP_P4_95184_20629025	NC_021166.1	Ca_kabuli_chr07	20629025	TT	CC	1946886952
SNP_P4_95185_20629358	NC_021166.1	Ca_kabuli_chr07	20629358	CC	AA	1946886954
SNP_P4_95186_20629371	NC_021166.1	Ca_kabuli_chr07	20629371	TT	GG	1946886956
SNP_P4_95187_20629489	NC_021166.1	Ca_kabuli_chr07	20629489	GG	TT	1946886958
SNP_P4_95189_20632481	NC_021166.1	Ca_kabuli_chr07	20632481	TT	AA	1946886960
SNP_P4_95190_20654066	NC_021166.1	Ca_kabuli_chr07	20654066	AA	GG	1946886962
SNP_P4_95191_20654162	NC_021166.1	Ca_kabuli_chr07	20654162	GG	AA	1946886964
SNP_P4_95192_20654170	NC_021166.1	Ca_kabuli_chr07	20654170	AA	TT	1946886966
SNP_P4_95193_20897876	NC_021166.1	Ca_kabuli_chr07	20897876	CC	GG	1946886968
SNP_P4_95194_20897936	NC_021166.1	Ca_kabuli_chr07	20897936	GG	AA	1946886970
SNP_P4_95195_20911032	NC_021166.1	Ca_kabuli_chr07	20911032	AA	TT	1946886972
SNP_P4_95196_20911312	NC_021166.1	Ca_kabuli_chr07	20911312	CC	TT	1946886974
SNP_P4_95197_20911341	NC_021166.1	Ca_kabuli_chr07	20911341	GG	AA	1946886976
SNP_P4_95198_20911355	NC_021166.1	Ca_kabuli_chr07	20911355	AA	CC	1946886978
SNP_P4_95199_20911365	NC_021166.1	Ca_kabuli_chr07	20911365	TT	CC	1946886980
SNP_P4_95200_20911372	NC_021166.1	Ca_kabuli_chr07	20911372	TT	CC	1946886982
SNP_P4_95201_20911391	NC_021166.1	Ca_kabuli_chr07	20911391	CC	TT	1946886984

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_95203_20931487	NC_021166.1	Ca_kabuli_chr07	20931487	GG	AA	1946886988
SNP_P4_95204_20933880	NC_021166.1	Ca_kabuli_chr07	20933880	CC	AA	1946886990
SNP_P4_95205_20934755	NC_021166.1	Ca_kabuli_chr07	20934755	AA	CC	1946886992
SNP_P4_95206_20934756	NC_021166.1	Ca_kabuli_chr07	20934756	TT	AA	1946886994
SNP_P4_95207_20934785	NC_021166.1	Ca_kabuli_chr07	20934785	TT	GG	1946886996
SNP_P4_95208_20934890	NC_021166.1	Ca_kabuli_chr07	20934890	TT	CC	1946886998
SNP_P4_95209_20934900	NC_021166.1	Ca_kabuli_chr07	20934900	TT	CC	1946887000
SNP_P4_95210_20935186	NC_021166.1	Ca_kabuli_chr07	20935186	TT	AA	1946887002
SNP_P4_95211_20935245	NC_021166.1	Ca_kabuli_chr07	20935245	TT	GG	1946887004
SNP_P4_95212_20935588	NC_021166.1	Ca_kabuli_chr07	20935588	CC	TT	1946887006
SNP_P4_95213_20938075	NC_021166.1	Ca_kabuli_chr07	20938075	GG	TT	1946887008
SNP_P4_95215_20975641	NC_021166.1	Ca_kabuli_chr07	20975641	CC	TT	1946887010
SNP_P4_95216_20975646	NC_021166.1	Ca_kabuli_chr07	20975646	TT	CC	1946887012
SNP_P4_95217_20975650	NC_021166.1	Ca_kabuli_chr07	20975650	AA	TT	1946887014
SNP_P4_95218_20979446	NC_021166.1	Ca_kabuli_chr07	20979446	TT	AA	1946887016
SNP_P4_95219_20983134	NC_021166.1	Ca_kabuli_chr07	20983134	GG	AA	1946887018
SNP_P4_95220_20985359	NC_021166.1	Ca_kabuli_chr07	20985359	TT	CC	1946887020
SNP_P4_95221_20985389	NC_021166.1	Ca_kabuli_chr07	20985389	GG	CC	1946887022
SNP_P4_95222_20985391	NC_021166.1	Ca_kabuli_chr07	20985391	GG	AA	1946887024
SNP_P4_95223_20985406	NC_021166.1	Ca_kabuli_chr07	20985406	GG	AA	1946887026
SNP_P4_95224_20985426	NC_021166.1	Ca_kabuli_chr07	20985426	GG	AA	1946887028
SNP_P4_95225_20985451	NC_021166.1	Ca_kabuli_chr07	20985451	TT	AA	1946887030
SNP_P4_95226_20985460	NC_021166.1	Ca_kabuli_chr07	20985460	AA	GG	1946887032
SNP_P4_95227_20985464	NC_021166.1	Ca_kabuli_chr07	20985464	GG	AA	1946887034
SNP_P4_95228_20985467	NC_021166.1	Ca_kabuli_chr07	20985467	GG	AA	1946887036
SNP_P4_95229_20985482	NC_021166.1	Ca_kabuli_chr07	20985482	CC	TT	1946887038
SNP_P4_95230_20985497	NC_021166.1	Ca_kabuli_chr07	20985497	GG	AA	1946887040
SNP_P4_95231_20985582	NC_021166.1	Ca_kabuli_chr07	20985582	TT	CC	1946887042
SNP_P4_95232_20985726	NC_021166.1	Ca_kabuli_chr07	20985726	GG	TT	1946887044
SNP_P4_95233_20985872	NC_021166.1	Ca_kabuli_chr07	20985872	CC	GG	1946887046
SNP_P4_95234_20985893	NC_021166.1	Ca_kabuli_chr07	20985893	AA	GG	1946887048
SNP_P4_95235_20985906	NC_021166.1	Ca_kabuli_chr07	20985906	AA	GG	1946887050
SNP_P4_95236_20985921	NC_021166.1	Ca_kabuli_chr07	20985921	CC	TT	1946887052
SNP_P4_95237_21000376	NC_021166.1	Ca_kabuli_chr07	21000376	TT	CC	1946887054
SNP_P4_95238_21011356	NC_021166.1	Ca_kabuli_chr07	21011356	CC	TT	1946887056
SNP_P4_95239_21012942	NC_021166.1	Ca_kabuli_chr07	21012942	TT	CC	1946887058
SNP_P4_95240_21013550	NC_021166.1	Ca_kabuli_chr07	21013550	CC	TT	1946887060
SNP_P4_95241_21023585	NC_021166.1	Ca_kabuli_chr07	21023585	GG	AA	1946887062
SNP_P4_95242_21025606	NC_021166.1	Ca_kabuli_chr07	21025606	GG	CC	1946887064
SNP_P4_95243_21032333	NC_021166.1	Ca_kabuli_chr07	21032333	GG	AA	1946887066
SNP_P4_95244_21059752	NC_021166.1	Ca_kabuli_chr07	21059752	GG	AA	1946887068

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_95246_21077216	NC_021166.1	Ca_kabuli_chr07	21077216	AA	GG	1946887072
SNP_P4_95247_21078694	NC_021166.1	Ca_kabuli_chr07	21078694	TT	GG	1946887074
SNP_P4_95248_21099495	NC_021166.1	Ca_kabuli_chr07	21099495	TT	AA	1946887075
SNP_P4_95249_21099497	NC_021166.1	Ca_kabuli_chr07	21099497	TT	CC	1946887077
SNP_P4_95250_21099505	NC_021166.1	Ca_kabuli_chr07	21099505	AA	CC	1946887080
SNP_P4_95251_21099515	NC_021166.1	Ca_kabuli_chr07	21099515	GG	TT	1946887082
SNP_P4_95252_21099519	NC_021166.1	Ca_kabuli_chr07	21099519	CC	TT	1946887084
SNP_P4_95253_21099528	NC_021166.1	Ca_kabuli_chr07	21099528	AA	GG	1946887086
SNP_P4_95254_21099591	NC_021166.1	Ca_kabuli_chr07	21099591	AA	GG	1946887088
SNP_P4_95255_21099683	NC_021166.1	Ca_kabuli_chr07	21099683	CC	TT	1946887090
SNP_P4_95257_21103257	NC_021166.1	Ca_kabuli_chr07	21103257	TT	CC	1946887092
SNP_P4_95258_21103362	NC_021166.1	Ca_kabuli_chr07	21103362	TT	AA	1946887094
SNP_P4_95259_21104850	NC_021166.1	Ca_kabuli_chr07	21104850	TT	GG	1946887096
SNP_P4_95260_21115307	NC_021166.1	Ca_kabuli_chr07	21115307	CC	AA	1946887098
SNP_P4_95261_21115394	NC_021166.1	Ca_kabuli_chr07	21115394	AA	GG	1946887100
SNP_P4_95262_21116400	NC_021166.1	Ca_kabuli_chr07	21116400	GG	AA	1946887102
SNP_P4_95263_21116478	NC_021166.1	Ca_kabuli_chr07	21116478	GG	TT	1946887104
SNP_P4_95266_21181493	NC_021166.1	Ca_kabuli_chr07	21181493	CC	TT	1946887106
SNP_P4_95267_21196881	NC_021166.1	Ca_kabuli_chr07	21196881	TT	GG	1946887108
SNP_P4_95268_21196885	NC_021166.1	Ca_kabuli_chr07	21196885	AA	CC	1946887110
SNP_P4_95269_21199824	NC_021166.1	Ca_kabuli_chr07	21199824	GG	AA	1946887112
SNP_P4_95270_21202743	NC_021166.1	Ca_kabuli_chr07	21202743	CC	TT	1946887114
SNP_P4_95272_21254707	NC_021166.1	Ca_kabuli_chr07	21254707	GG	CC	1946887116
SNP_P4_95273_21257398	NC_021166.1	Ca_kabuli_chr07	21257398	TT	AA	1946887118
SNP_P4_95274_21257475	NC_021166.1	Ca_kabuli_chr07	21257475	TT	GG	1946887120
SNP_P4_95275_21257668	NC_021166.1	Ca_kabuli_chr07	21257668	GG	AA	1946887122
SNP_P4_95276_21257706	NC_021166.1	Ca_kabuli_chr07	21257706	TT	CC	1946887124
SNP_P4_95277_21257723	NC_021166.1	Ca_kabuli_chr07	21257723	AA	GG	1946887126
SNP_P4_95278_21257724	NC_021166.1	Ca_kabuli_chr07	21257724	TT	CC	1946887128
SNP_P4_95279_21257740	NC_021166.1	Ca_kabuli_chr07	21257740	CC	AA	1946887130
SNP_P4_95280_21257748	NC_021166.1	Ca_kabuli_chr07	21257748	TT	CC	1946887132
SNP_P4_95281_21257809	NC_021166.1	Ca_kabuli_chr07	21257809	GG	AA	1946887134
SNP_P4_95282_21257853	NC_021166.1	Ca_kabuli_chr07	21257853	AA	GG	1946887136
SNP_P4_95283_21257963	NC_021166.1	Ca_kabuli_chr07	21257963	CC	TT	1946887138
SNP_P4_95285_21299408	NC_021166.1	Ca_kabuli_chr07	21299408	TT	CC	1946887140
SNP_P4_95286_21307327	NC_021166.1	Ca_kabuli_chr07	21307327	GG	CC	1946887142
SNP_P4_95287_21341138	NC_021166.1	Ca_kabuli_chr07	21341138	TT	CC	1946887144
SNP_P4_95288_21341261	NC_021166.1	Ca_kabuli_chr07	21341261	GG	AA	1946887146
SNP_P4_95289_21354328	NC_021166.1	Ca_kabuli_chr07	21354328	AA	GG	1946887148
SNP_P4_95292_21415227	NC_021166.1	Ca_kabuli_chr07	21415227	AA	GG	1946887150
SNP_P4_95293_21415259	NC_021166.1	Ca_kabuli_chr07	21415259	TT	CC	1946887152

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_95295_21415405	NC_021166.1	Ca_kabuli_chr07	21415405	TT	GG	1946887156
SNP_P4_95296_21415430	NC_021166.1	Ca_kabuli_chr07	21415430	GG	CC	1946887159
SNP_P4_95297_21415513	NC_021166.1	Ca_kabuli_chr07	21415513	AA	GG	1946887161
SNP_P4_95298_21418800	NC_021166.1	Ca_kabuli_chr07	21418800	AA	CC	1946887163
SNP_P4_95301_21465151	NC_021166.1	Ca_kabuli_chr07	21465151	CC	AA	1946887165
SNP_P4_95302_21473950	NC_021166.1	Ca_kabuli_chr07	21473950	CC	TT	1946887168
SNP_P4_95303_21510487	NC_021166.1	Ca_kabuli_chr07	21510487	TT	AA	1946887170
SNP_P4_95305_21542314	NC_021166.1	Ca_kabuli_chr07	21542314	TT	GG	1946887172
SNP_P4_95307_21602434	NC_021166.1	Ca_kabuli_chr07	21602434	TT	CC	1946887174
SNP_P4_95309_21644342	NC_021166.1	Ca_kabuli_chr07	21644342	AA	GG	1946887176
SNP_P4_95310_21648130	NC_021166.1	Ca_kabuli_chr07	21648130	TT	CC	1946887178
SNP_P4_95311_21648133	NC_021166.1	Ca_kabuli_chr07	21648133	GG	AA	1946887180
SNP_P4_95312_21648135	NC_021166.1	Ca_kabuli_chr07	21648135	CC	TT	1946887182
SNP_P4_95313_21648146	NC_021166.1	Ca_kabuli_chr07	21648146	TT	CC	1946887184
SNP_P4_95314_21658942	NC_021166.1	Ca_kabuli_chr07	21658942	AA	TT	1946887186
SNP_P4_95315_21665375	NC_021166.1	Ca_kabuli_chr07	21665375	AA	CC	1946887188
SNP_P4_95316_21665396	NC_021166.1	Ca_kabuli_chr07	21665396	AA	GG	1946887190
SNP_P4_95317_21665438	NC_021166.1	Ca_kabuli_chr07	21665438	TT	AA	1946887192
SNP_P4_95318_21666368	NC_021166.1	Ca_kabuli_chr07	21666368	CC	TT	1946887195
SNP_P4_95319_21666382	NC_021166.1	Ca_kabuli_chr07	21666382	CC	TT	1946887196
SNP_P4_95320_21666407	NC_021166.1	Ca_kabuli_chr07	21666407	GG	AA	1946887198
SNP_P4_95321_21666427	NC_021166.1	Ca_kabuli_chr07	21666427	AA	GG	1946887200
SNP_P4_95322_21666450	NC_021166.1	Ca_kabuli_chr07	21666450	GG	AA	1946887202
SNP_P4_95323_21666597	NC_021166.1	Ca_kabuli_chr07	21666597	AA	GG	1946887204
SNP_P4_95324_21666903	NC_021166.1	Ca_kabuli_chr07	21666903	AA	CC	1946887206
SNP_P4_95325_21666949	NC_021166.1	Ca_kabuli_chr07	21666949	CC	TT	1946887208
SNP_P4_95326_21667161	NC_021166.1	Ca_kabuli_chr07	21667161	TT	CC	1946887210
SNP_P4_95327_21670585	NC_021166.1	Ca_kabuli_chr07	21670585	CC	TT	1946887212
SNP_P4_95328_21670592	NC_021166.1	Ca_kabuli_chr07	21670592	TT	CC	1946887214
SNP_P4_95330_21671426	NC_021166.1	Ca_kabuli_chr07	21671426	TT	CC	1946887216
SNP_P4_95331_21674109	NC_021166.1	Ca_kabuli_chr07	21674109	TT	GG	1946887218
SNP_P4_95332_21674134	NC_021166.1	Ca_kabuli_chr07	21674134	GG	AA	1946887220
SNP_P4_95334_21674193	NC_021166.1	Ca_kabuli_chr07	21674193	GG	AA	1946887222
SNP_P4_95335_21674829	NC_021166.1	Ca_kabuli_chr07	21674829	CC	TT	1946887224
SNP_P4_95336_21674884	NC_021166.1	Ca_kabuli_chr07	21674884	GG	AA	1946887226
SNP_P4_95337_21674972	NC_021166.1	Ca_kabuli_chr07	21674972	TT	CC	1946887228
SNP_P4_95339_21675381	NC_021166.1	Ca_kabuli_chr07	21675381	AA	TT	1946887230
SNP_P4_95340_21675387	NC_021166.1	Ca_kabuli_chr07	21675387	CC	TT	1946887232
SNP_P4_95341_21675491	NC_021166.1	Ca_kabuli_chr07	21675491	TT	CC	1946887234
SNP_P4_95342_21677641	NC_021166.1	Ca_kabuli_chr07	21677641	CC	AA	1946887236
SNP_P4_95343_21677682	NC_021166.1	Ca_kabuli_chr07	21677682	AA	TT	1946887238

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_95345_21677742	NC_021166.1	Ca_kabuli_chr07	21677742	AA	TT	1946887242
SNP_P4_95346_21677943	NC_021166.1	Ca_kabuli_chr07	21677943	AA	CC	1946887244
SNP_P4_95348_21678768	NC_021166.1	Ca_kabuli_chr07	21678768	CC	AA	1946887246
SNP_P4_95349_21679017	NC_021166.1	Ca_kabuli_chr07	21679017	CC	TT	1946887248
SNP_P4_95350_21679984	NC_021166.1	Ca_kabuli_chr07	21679984	GG	AA	1946887250
SNP_P4_95351_21680130	NC_021166.1	Ca_kabuli_chr07	21680130	AA	GG	1946887252
SNP_P4_95352_21680289	NC_021166.1	Ca_kabuli_chr07	21680289	GG	AA	1946887254
SNP_P4_95353_21681018	NC_021166.1	Ca_kabuli_chr07	21681018	GG	AA	1946887256
SNP_P4_95354_21681195	NC_021166.1	Ca_kabuli_chr07	21681195	GG	AA	1946887258
SNP_P4_95355_21681323	NC_021166.1	Ca_kabuli_chr07	21681323	AA	GG	1946887260
SNP_P4_95356_21681439	NC_021166.1	Ca_kabuli_chr07	21681439	AA	GG	1946887262
SNP_P4_95357_21681446	NC_021166.1	Ca_kabuli_chr07	21681446	AA	GG	1946887264
SNP_P4_95358_21681488	NC_021166.1	Ca_kabuli_chr07	21681488	AA	GG	1946887266
SNP_P4_95359_21681507	NC_021166.1	Ca_kabuli_chr07	21681507	AA	GG	1946887268
SNP_P4_95360_21681509	NC_021166.1	Ca_kabuli_chr07	21681509	AA	GG	1946887270
SNP_P4_95361_21681544	NC_021166.1	Ca_kabuli_chr07	21681544	CC	TT	1946887272
SNP_P4_95362_21681699	NC_021166.1	Ca_kabuli_chr07	21681699	TT	CC	1946887274
SNP_P4_95363_21681709	NC_021166.1	Ca_kabuli_chr07	21681709	CC	AA	1946887276
SNP_P4_95364_21681782	NC_021166.1	Ca_kabuli_chr07	21681782	GG	AA	1946887278
SNP_P4_95365_21681819	NC_021166.1	Ca_kabuli_chr07	21681819	CC	TT	1946887280
SNP_P4_95366_21681834	NC_021166.1	Ca_kabuli_chr07	21681834	AA	CC	1946887282
SNP_P4_95367_21681835	NC_021166.1	Ca_kabuli_chr07	21681835	GG	CC	1946887284
SNP_P4_95368_21681860	NC_021166.1	Ca_kabuli_chr07	21681860	TT	AA	1946887286
SNP_P4_95369_21681865	NC_021166.1	Ca_kabuli_chr07	21681865	GG	TT	1946887288
SNP_P4_95370_21681875	NC_021166.1	Ca_kabuli_chr07	21681875	AA	GG	1946887290
SNP_P4_95371_21681881	NC_021166.1	Ca_kabuli_chr07	21681881	GG	AA	1946887292
SNP_P4_95372_21681884	NC_021166.1	Ca_kabuli_chr07	21681884	CC	TT	1946887294
SNP_P4_95373_21681890	NC_021166.1	Ca_kabuli_chr07	21681890	AA	GG	1946887296
SNP_P4_95374_21681916	NC_021166.1	Ca_kabuli_chr07	21681916	CC	TT	1946887298
SNP_P4_95375_21681937	NC_021166.1	Ca_kabuli_chr07	21681937	GG	AA	1946887300
SNP_P4_95376_21682215	NC_021166.1	Ca_kabuli_chr07	21682215	GG	TT	1946887302
SNP_P4_95377_21682238	NC_021166.1	Ca_kabuli_chr07	21682238	CC	TT	1946887304
SNP_P4_95378_21682244	NC_021166.1	Ca_kabuli_chr07	21682244	TT	CC	1946887306
SNP_P4_95379_21682563	NC_021166.1	Ca_kabuli_chr07	21682563	CC	TT	1946887308
SNP_P4_95380_21682646	NC_021166.1	Ca_kabuli_chr07	21682646	GG	TT	1946887310
SNP_P4_95381_21682888	NC_021166.1	Ca_kabuli_chr07	21682888	GG	AA	1946887312
SNP_P4_95382_21683620	NC_021166.1	Ca_kabuli_chr07	21683620	GG	TT	1946887314
SNP_P4_95383_21684632	NC_021166.1	Ca_kabuli_chr07	21684632	CC	TT	1946887316
SNP_P4_95384_21684701	NC_021166.1	Ca_kabuli_chr07	21684701	TT	CC	1946887318
SNP_P4_95385_21684966	NC_021166.1	Ca_kabuli_chr07	21684966	CC	AA	1946887320
SNP_P4_95386_21685053	NC_021166.1	Ca_kabuli_chr07	21685053	GG	CC	1946887322

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_95389_21687286	NC_021166.1	Ca_kabuli_chr07	21687286	GG	AA	1946887326
SNP_P4_95390_21687304	NC_021166.1	Ca_kabuli_chr07	21687304	CC	TT	1946887328
SNP_P4_95391_21688110	NC_021166.1	Ca_kabuli_chr07	21688110	AA	GG	1946887330
SNP_P4_95393_21709914	NC_021166.1	Ca_kabuli_chr07	21709914	CC	TT	1946887332
SNP_P4_95394_21711003	NC_021166.1	Ca_kabuli_chr07	21711003	CC	TT	1946887334
SNP_P4_95396_21728028	NC_021166.1	Ca_kabuli_chr07	21728028	GG	TT	1946887336
SNP_P4_95397_21728036	NC_021166.1	Ca_kabuli_chr07	21728036	CC	TT	1946887338
SNP_P4_95398_21728040	NC_021166.1	Ca_kabuli_chr07	21728040	AA	GG	1946887340
SNP_P4_95399_21728076	NC_021166.1	Ca_kabuli_chr07	21728076	GG	TT	1946887342
SNP_P4_95400_21728099	NC_021166.1	Ca_kabuli_chr07	21728099	CC	AA	1946887344
SNP_P4_95401_21728301	NC_021166.1	Ca_kabuli_chr07	21728301	CC	GG	1946887346
SNP_P4_95402_21728328	NC_021166.1	Ca_kabuli_chr07	21728328	TT	CC	1946887348
SNP_P4_95403_21728332	NC_021166.1	Ca_kabuli_chr07	21728332	AA	GG	1946887350
SNP_P4_95404_21728372	NC_021166.1	Ca_kabuli_chr07	21728372	AA	GG	1946887352
SNP_P4_95406_21728437	NC_021166.1	Ca_kabuli_chr07	21728437	AA	CC	1946887354
SNP_P4_95407_21728439	NC_021166.1	Ca_kabuli_chr07	21728439	CC	TT	1946887356
SNP_P4_95408_21728485	NC_021166.1	Ca_kabuli_chr07	21728485	TT	CC	1946887358
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SNP_P4_95410_21728570	NC_021166.1	Ca_kabuli_chr07	21728570	TT	GG	1946887362
SNP_P4_95411_21728581	NC_021166.1	Ca_kabuli_chr07	21728581	GG	AA	1946887364
SNP_P4_95412_21728728	NC_021166.1	Ca_kabuli_chr07	21728728	TT	CC	1946887366
SNP_P4_95413_21728731	NC_021166.1	Ca_kabuli_chr07	21728731	GG	AA	1946887368
SNP_P4_95414_21728821	NC_021166.1	Ca_kabuli_chr07	21728821	AA	CC	1946887370
SNP_P4_95415_21728904	NC_021166.1	Ca_kabuli_chr07	21728904	CC	GG	1946887372
SNP_P4_95416_21728928	NC_021166.1	Ca_kabuli_chr07	21728928	CC	TT	1946887374
SNP_P4_95417_21728935	NC_021166.1	Ca_kabuli_chr07	21728935	GG	AA	1946887376
SNP_P4_95418_21728966	NC_021166.1	Ca_kabuli_chr07	21728966	TT	CC	1946887378
SNP_P4_95420_21729239	NC_021166.1	Ca_kabuli_chr07	21729239	AA	GG	1946887380
SNP_P4_95422_21729493	NC_021166.1	Ca_kabuli_chr07	21729493	TT	AA	1946887382
SNP_P4_95423_21729580	NC_021166.1	Ca_kabuli_chr07	21729580	AA	TT	1946887384
SNP_P4_95424_21729657	NC_021166.1	Ca_kabuli_chr07	21729657	TT	AA	1946887386
SNP_P4_95425_21729819	NC_021166.1	Ca_kabuli_chr07	21729819	AA	GG	1946887388
SNP_P4_95426_21729872	NC_021166.1	Ca_kabuli_chr07	21729872	AA	CC	1946887390
SNP_P4_95427_21729892	NC_021166.1	Ca_kabuli_chr07	21729892	TT	AA	1946887393
SNP_P4_95428_21729893	NC_021166.1	Ca_kabuli_chr07	21729893	GG	AA	1946887395
SNP_P4_95429_21730106	NC_021166.1	Ca_kabuli_chr07	21730106	CC	GG	1946887397
SNP_P4_95430_21730144	NC_021166.1	Ca_kabuli_chr07	21730144	CC	TT	1946887399
SNP_P4_95431_21730147	NC_021166.1	Ca_kabuli_chr07	21730147	TT	CC	1946887401
SNP_P4_95432_21730302	NC_021166.1	Ca_kabuli_chr07	21730302	AA	TT	1946887403
SNP_P4_95433_21730308	NC_021166.1	Ca_kabuli_chr07	21730308	AA	TT	1946887405
SNP_P4_95434_21730497	NC_021166.1	Ca_kabuli_chr07	21730497	CC	TT	1946887407

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_95436_21730540	NC_021166.1	Ca_kabuli_chr07	21730540	GG	TT	1946887411
SNP_P4_95437_21730605	NC_021166.1	Ca_kabuli_chr07	21730605	TT	CC	1946887413
SNP_P4_95438_21730608	NC_021166.1	Ca_kabuli_chr07	21730608	CC	GG	1946887415
SNP_P4_95439_21730619	NC_021166.1	Ca_kabuli_chr07	21730619	CC	TT	1946887417
SNP_P4_95440_21730625	NC_021166.1	Ca_kabuli_chr07	21730625	TT	GG	1946887419
SNP_P4_95441_21730669	NC_021166.1	Ca_kabuli_chr07	21730669	TT	CC	1946887421
SNP_P4_95442_21730744	NC_021166.1	Ca_kabuli_chr07	21730744	CC	AA	1946887423
SNP_P4_95443_21730757	NC_021166.1	Ca_kabuli_chr07	21730757	CC	AA	1946887425
SNP_P4_95444_21730794	NC_021166.1	Ca_kabuli_chr07	21730794	TT	CC	1946887427
SNP_P4_95445_21730842	NC_021166.1	Ca_kabuli_chr07	21730842	AA	TT	1946887430
SNP_P4_95446_21730845	NC_021166.1	Ca_kabuli_chr07	21730845	AA	TT	1946887432
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SNP_P4_95448_21730900	NC_021166.1	Ca_kabuli_chr07	21730900	CC	TT	1946887436
SNP_P4_95449_21730905	NC_021166.1	Ca_kabuli_chr07	21730905	TT	CC	1946887438
SNP_P4_95450_21730915	NC_021166.1	Ca_kabuli_chr07	21730915	GG	AA	1946887440
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SNP_P4_95452_21731046	NC_021166.1	Ca_kabuli_chr07	21731046	AA	GG	1946887444
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SNP_P4_95456_21731209	NC_021166.1	Ca_kabuli_chr07	21731209	AA	CC	1946887450
SNP_P4_95457_21731263	NC_021166.1	Ca_kabuli_chr07	21731263	TT	CC	1946887452
SNP_P4_95458_21731266	NC_021166.1	Ca_kabuli_chr07	21731266	AA	TT	1946887454
SNP_P4_95459_21731273	NC_021166.1	Ca_kabuli_chr07	21731273	TT	CC	1946887456
SNP_P4_95460_21731274	NC_021166.1	Ca_kabuli_chr07	21731274	CC	GG	1946887458
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SNP_P4_95462_21731395	NC_021166.1	Ca_kabuli_chr07	21731395	TT	CC	1946887463
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SNP_P4_95465_21731916	NC_021166.1	Ca_kabuli_chr07	21731916	AA	GG	1946887469
SNP_P4_95466_21732430	NC_021166.1	Ca_kabuli_chr07	21732430	GG	CC	1946887471
SNP_P4_95468_21743385	NC_021166.1	Ca_kabuli_chr07	21743385	TT	AA	1946887473
SNP_P4_95469_21743393	NC_021166.1	Ca_kabuli_chr07	21743393	TT	CC	1946887475
SNP_P4_95470_21743428	NC_021166.1	Ca_kabuli_chr07	21743428	GG	CC	1946887477
SNP_P4_95471_21743431	NC_021166.1	Ca_kabuli_chr07	21743431	TT	GG	1946887479
SNP_P4_95472_21743435	NC_021166.1	Ca_kabuli_chr07	21743435	TT	AA	1946887481
SNP_P4_95474_21743528	NC_021166.1	Ca_kabuli_chr07	21743528	TT	GG	1946887483
SNP_P4_95475_21743540	NC_021166.1	Ca_kabuli_chr07	21743540	GG	AA	1946887485
SNP_P4_95476_21743592	NC_021166.1	Ca_kabuli_chr07	21743592	TT	GG	1946887487
SNP_P4_95478_21743638	NC_021166.1	Ca_kabuli_chr07	21743638	TT	CC	1946887489
SNP_P4_95479_21743676	NC_021166.1	Ca_kabuli_chr07	21743676	GG	AA	1946887491
SNP_P4_95480_21743739	NC_021166.1	Ca_kabuli_chr07	21743739	TT	CC	1946887493

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_95483_21743845	NC_021166.1	Ca_kabuli_chr07	21743845	TT	GG	1946887499
SNP_P4_95484_21743929	NC_021166.1	Ca_kabuli_chr07	21743929	AA	GG	1946887501
SNP_P4_95486_21744003	NC_021166.1	Ca_kabuli_chr07	21744003	AA	CC	1946887503
SNP_P4_95487_21744048	NC_021166.1	Ca_kabuli_chr07	21744048	AA	CC	1946887505
SNP_P4_95488_21744065	NC_021166.1	Ca_kabuli_chr07	21744065	TT	CC	1946887507
SNP_P4_95489_21744082	NC_021166.1	Ca_kabuli_chr07	21744082	TT	CC	1946887509
SNP_P4_95490_21744273	NC_021166.1	Ca_kabuli_chr07	21744273	CC	TT	1946887511
SNP_P4_95491_21744355	NC_021166.1	Ca_kabuli_chr07	21744355	GG	AA	1946887513
SNP_P4_95492_21744514	NC_021166.1	Ca_kabuli_chr07	21744514	TT	CC	1946887515
SNP_P4_95493_21744821	NC_021166.1	Ca_kabuli_chr07	21744821	AA	GG	1946887517
SNP_P4_95494_21744856	NC_021166.1	Ca_kabuli_chr07	21744856	GG	AA	1946887519
SNP_P4_95496_21745657	NC_021166.1	Ca_kabuli_chr07	21745657	GG	AA	1946887521
SNP_P4_95497_21746578	NC_021166.1	Ca_kabuli_chr07	21746578	CC	TT	1946887523
SNP_P4_95498_21751146	NC_021166.1	Ca_kabuli_chr07	21751146	TT	CC	1946887526
SNP_P4_95499_21753613	NC_021166.1	Ca_kabuli_chr07	21753613	AA	CC	1946887528
SNP_P4_95500_21754024	NC_021166.1	Ca_kabuli_chr07	21754024	CC	TT	1946887530
SNP_P4_95501_21754168	NC_021166.1	Ca_kabuli_chr07	21754168	AA	GG	1946887532
SNP_P4_95502_21754176	NC_021166.1	Ca_kabuli_chr07	21754176	AA	GG	1946887534
SNP_P4_95503_21756455	NC_021166.1	Ca_kabuli_chr07	21756455	AA	GG	1946887536
SNP_P4_95504_21756471	NC_021166.1	Ca_kabuli_chr07	21756471	CC	TT	1946887538
SNP_P4_95505_21766124	NC_021166.1	Ca_kabuli_chr07	21766124	CC	TT	1946887540
SNP_P4_95506_21766316	NC_021166.1	Ca_kabuli_chr07	21766316	CC	TT	1946887542
SNP_P4_95507_21766368	NC_021166.1	Ca_kabuli_chr07	21766368	AA	GG	1946887544
SNP_P4_95508_21766436	NC_021166.1	Ca_kabuli_chr07	21766436	TT	GG	1946887546
SNP_P4_95509_21766439	NC_021166.1	Ca_kabuli_chr07	21766439	CC	TT	1946887549
SNP_P4_95510_21771031	NC_021166.1	Ca_kabuli_chr07	21771031	GG	AA	1946887551
SNP_P4_95512_21784541	NC_021166.1	Ca_kabuli_chr07	21784541	GG	AA	1946887553
SNP_P4_95514_21788045	NC_021166.1	Ca_kabuli_chr07	21788045	CC	AA	1946887555
SNP_P4_95515_21788282	NC_021166.1	Ca_kabuli_chr07	21788282	AA	GG	1946887557
SNP_P4_95517_21810873	NC_021166.1	Ca_kabuli_chr07	21810873	CC	TT	1946887559
SNP_P4_95518_21817869	NC_021166.1	Ca_kabuli_chr07	21817869	CC	TT	1946887561
SNP_P4_95519_21818285	NC_021166.1	Ca_kabuli_chr07	21818285	AA	TT	1946887563
SNP_P4_95520_21818314	NC_021166.1	Ca_kabuli_chr07	21818314	AA	TT	1946887565
SNP_P4_95521_21818410	NC_021166.1	Ca_kabuli_chr07	21818410	TT	CC	1946887567
SNP_P4_95522_21818451	NC_021166.1	Ca_kabuli_chr07	21818451	AA	GG	1946887569
SNP_P4_95523_21818459	NC_021166.1	Ca_kabuli_chr07	21818459	TT	CC	1946887571
SNP_P4_95524_21818483	NC_021166.1	Ca_kabuli_chr07	21818483	TT	GG	1946887573
SNP_P4_95526_21818653	NC_021166.1	Ca_kabuli_chr07	21818653	AA	TT	1946887575
SNP_P4_95527_21818654	NC_021166.1	Ca_kabuli_chr07	21818654	TT	AA	1946887577
SNP_P4_95528_21818665	NC_021166.1	Ca_kabuli_chr07	21818665	CC	AA	1946887579

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_95530_21818794	NC_021166.1	Ca_kabuli_chr07	21818794	CC	TT	1946887583
SNP_P4_95531_21818806	NC_021166.1	Ca_kabuli_chr07	21818806	GG	AA	1946887585
SNP_P4_95532_21829279	NC_021166.1	Ca_kabuli_chr07	21829279	CC	TT	1946887587
SNP_P4_95533_21835118	NC_021166.1	Ca_kabuli_chr07	21835118	TT	CC	1946887589
SNP_P4_95534_21844399	NC_021166.1	Ca_kabuli_chr07	21844399	AA	GG	1946887591
SNP_P4_95536_21888060	NC_021166.1	Ca_kabuli_chr07	21888060	TT	AA	1946887593
SNP_P4_95537_21895584	NC_021166.1	Ca_kabuli_chr07	21895584	CC	AA	1946887595
SNP_P4_95538_21921933	NC_021166.1	Ca_kabuli_chr07	21921933	TT	GG	1946887597
SNP_P4_95539_21924074	NC_021166.1	Ca_kabuli_chr07	21924074	AA	CC	1946887599
SNP_P4_95540_21924128	NC_021166.1	Ca_kabuli_chr07	21924128	CC	TT	1946887601
SNP_P4_95541_21942278	NC_021166.1	Ca_kabuli_chr07	21942278	CC	TT	1946887603
SNP_P4_95542_21942281	NC_021166.1	Ca_kabuli_chr07	21942281	AA	GG	1946887605
SNP_P4_95543_21949806	NC_021166.1	Ca_kabuli_chr07	21949806	GG	AA	1946887608
SNP_P4_95544_21955129	NC_021166.1	Ca_kabuli_chr07	21955129	AA	GG	1946887610
SNP_P4_95545_21955543	NC_021166.1	Ca_kabuli_chr07	21955543	CC	TT	1946887612
SNP_P4_95546_21955650	NC_021166.1	Ca_kabuli_chr07	21955650	GG	AA	1946887614
SNP_P4_95547_21994249	NC_021166.1	Ca_kabuli_chr07	21994249	AA	GG	1946887616
SNP_P4_95548_21994599	NC_021166.1	Ca_kabuli_chr07	21994599	TT	CC	1946887618
SNP_P4_95549_21994636	NC_021166.1	Ca_kabuli_chr07	21994636	TT	GG	1946887620
SNP_P4_95550_21994637	NC_021166.1	Ca_kabuli_chr07	21994637	AA	TT	1946887622
SNP_P4_95551_21994650	NC_021166.1	Ca_kabuli_chr07	21994650	TT	CC	1946887623
SNP_P4_95552_21994651	NC_021166.1	Ca_kabuli_chr07	21994651	CC	TT	1946887625
SNP_P4_95554_22023665	NC_021166.1	Ca_kabuli_chr07	22023665	AA	CC	1946887627
SNP_P4_95555_22027566	NC_021166.1	Ca_kabuli_chr07	22027566	TT	AA	1946887629
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SNP_P4_95558_22034999	NC_021166.1	Ca_kabuli_chr07	22034999	CC	TT	1946887635
SNP_P4_95559_22035553	NC_021166.1	Ca_kabuli_chr07	22035553	AA	GG	1946887637
SNP_P4_95560_22035657	NC_021166.1	Ca_kabuli_chr07	22035657	AA	GG	1946887639
SNP_P4_95561_22036213	NC_021166.1	Ca_kabuli_chr07	22036213	GG	AA	1946887641
SNP_P4_95563_22036380	NC_021166.1	Ca_kabuli_chr07	22036380	GG	AA	1946887643
SNP_P4_95565_22037366	NC_021166.1	Ca_kabuli_chr07	22037366	CC	TT	1946887645
SNP_P4_95567_22038167	NC_021166.1	Ca_kabuli_chr07	22038167	AA	CC	1946887647
SNP_P4_95568_22038776	NC_021166.1	Ca_kabuli_chr07	22038776	AA	GG	1946887650
SNP_P4_95570_22039682	NC_021166.1	Ca_kabuli_chr07	22039682	TT	CC	1946887652
SNP_P4_95571_22040905	NC_021166.1	Ca_kabuli_chr07	22040905	GG	AA	1946887654
SNP_P4_95572_22042181	NC_021166.1	Ca_kabuli_chr07	22042181	TT	GG	1946887656
SNP_P4_95573_22042916	NC_021166.1	Ca_kabuli_chr07	22042916	CC	AA	1946887658
SNP_P4_95575_22044990	NC_021166.1	Ca_kabuli_chr07	22044990	CC	AA	1946887660
SNP_P4_95577_22046351	NC_021166.1	Ca_kabuli_chr07	22046351	CC	TT	1946887662
SNP_P4_95578_22046592	NC_021166.1	Ca_kabuli_chr07	22046592	CC	TT	1946887664

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_95583_22048306	NC_021166.1	Ca_kabuli_chr07	22048306	CC	TT	1946887668
SNP_P4_95584_22048847	NC_021166.1	Ca_kabuli_chr07	22048847	AA	GG	1946887671
SNP_P4_95585_22049336	NC_021166.1	Ca_kabuli_chr07	22049336	AA	TT	1946887673
SNP_P4_95586_22049920	NC_021166.1	Ca_kabuli_chr07	22049920	TT	GG	1946887675
SNP_P4_95587_22058011	NC_021166.1	Ca_kabuli_chr07	22058011	TT	AA	1946887677
SNP_P4_95588_22058012	NC_021166.1	Ca_kabuli_chr07	22058012	TT	AA	1946887679
SNP_P4_95589_22069260	NC_021166.1	Ca_kabuli_chr07	22069260	AA	CC	1946887681
SNP_P4_95590_22085563	NC_021166.1	Ca_kabuli_chr07	22085563	TT	CC	1946887683
SNP_P4_95591_22090966	NC_021166.1	Ca_kabuli_chr07	22090966	CC	TT	1946887685
SNP_P4_95593_22101290	NC_021166.1	Ca_kabuli_chr07	22101290	AA	TT	1946887687
SNP_P4_95594_22101299	NC_021166.1	Ca_kabuli_chr07	22101299	CC	TT	1946887689
SNP_P4_95596_22101671	NC_021166.1	Ca_kabuli_chr07	22101671	GG	AA	1946887691
SNP_P4_95597_22101683	NC_021166.1	Ca_kabuli_chr07	22101683	CC	TT	1946887694
SNP_P4_95598_22115081	NC_021166.1	Ca_kabuli_chr07	22115081	GG	AA	1946887696
SNP_P4_95600_22126059	NC_021166.1	Ca_kabuli_chr07	22126059	CC	GG	1946887698
SNP_P4_95601_22143092	NC_021166.1	Ca_kabuli_chr07	22143092	CC	TT	1946887700
SNP_P4_95602_22143479	NC_021166.1	Ca_kabuli_chr07	22143479	GG	AA	1946887702
SNP_P4_95603_22143658	NC_021166.1	Ca_kabuli_chr07	22143658	CC	TT	1946887704
SNP_P4_95604_22143678	NC_021166.1	Ca_kabuli_chr07	22143678	TT	GG	1946887706
SNP_P4_95605_22143684	NC_021166.1	Ca_kabuli_chr07	22143684	GG	AA	1946887708
SNP_P4_95606_22143688	NC_021166.1	Ca_kabuli_chr07	22143688	GG	TT	1946887710
SNP_P4_95607_22146422	NC_021166.1	Ca_kabuli_chr07	22146422	GG	AA	1946887713
SNP_P4_95608_22146457	NC_021166.1	Ca_kabuli_chr07	22146457	GG	TT	1946887715
SNP_P4_95609_22146522	NC_021166.1	Ca_kabuli_chr07	22146522	GG	AA	1946887717
SNP_P4_95611_22146668	NC_021166.1	Ca_kabuli_chr07	22146668	TT	AA	1946887719
SNP_P4_95612_22146698	NC_021166.1	Ca_kabuli_chr07	22146698	CC	TT	1946887721
SNP_P4_95613_22146706	NC_021166.1	Ca_kabuli_chr07	22146706	AA	GG	1946887723
SNP_P4_95614_22146740	NC_021166.1	Ca_kabuli_chr07	22146740	AA	GG	1946887725
SNP_P4_95615_22152507	NC_021166.1	Ca_kabuli_chr07	22152507	AA	GG	1946887727
SNP_P4_95616_22157475	NC_021166.1	Ca_kabuli_chr07	22157475	AA	TT	1946887730
SNP_P4_95617_22174122	NC_021166.1	Ca_kabuli_chr07	22174122	GG	AA	1946887732
SNP_P4_95618_22187034	NC_021166.1	Ca_kabuli_chr07	22187034	CC	AA	1946887734
SNP_P4_95619_22187228	NC_021166.1	Ca_kabuli_chr07	22187228	TT	AA	1946887736
SNP_P4_95620_22205859	NC_021166.1	Ca_kabuli_chr07	22205859	CC	TT	1946887738
SNP_P4_95621_22206661	NC_021166.1	Ca_kabuli_chr07	22206661	CC	TT	1946887740
SNP_P4_95622_22206672	NC_021166.1	Ca_kabuli_chr07	22206672	CC	TT	1946887742
SNP_P4_95623_22206686	NC_021166.1	Ca_kabuli_chr07	22206686	CC	TT	1946887744
SNP_P4_95624_22206712	NC_021166.1	Ca_kabuli_chr07	22206712	AA	GG	1946887746
SNP_P4_95625_22206804	NC_021166.1	Ca_kabuli_chr07	22206804	CC	TT	1946887748
SNP_P4_95626_22206807	NC_021166.1	Ca_kabuli_chr07	22206807	TT	AA	1946887750
SNP_P4_95627_22206811	NC_021166.1	Ca_kabuli_chr07	22206811	GG	AA	1946887752

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_95629_22229612	NC_021166.1	Ca_kabuli_chr07	22229612	GG	AA	1946887756
SNP_P4_95630_22229635	NC_021166.1	Ca_kabuli_chr07	22229635	CC	TT	1946887758
SNP_P4_95631_22248146	NC_021166.1	Ca_kabuli_chr07	22248146	TT	CC	1946887760
SNP_P4_95632_22296991	NC_021166.1	Ca_kabuli_chr07	22296991	CC	TT	1946887762
SNP_P4_95634_22323826	NC_021166.1	Ca_kabuli_chr07	22323826	AA	TT	1946887764
SNP_P4_95636_22327210	NC_021166.1	Ca_kabuli_chr07	22327210	CC	TT	1946887766
SNP_P4_95637_22327215	NC_021166.1	Ca_kabuli_chr07	22327215	TT	CC	1946887768
SNP_P4_95639_22327632	NC_021166.1	Ca_kabuli_chr07	22327632	CC	AA	1946887770
SNP_P4_95640_22330596	NC_021166.1	Ca_kabuli_chr07	22330596	TT	AA	1946887772
SNP_P4_95641_22330597	NC_021166.1	Ca_kabuli_chr07	22330597	GG	TT	1946887774
SNP_P4_95642_22330680	NC_021166.1	Ca_kabuli_chr07	22330680	GG	CC	1946887776
SNP_P4_95643_22330997	NC_021166.1	Ca_kabuli_chr07	22330997	GG	AA	1946887778
SNP_P4_95644_22331017	NC_021166.1	Ca_kabuli_chr07	22331017	GG	AA	1946887780
SNP_P4_95645_22333113	NC_021166.1	Ca_kabuli_chr07	22333113	AA	TT	1946887782
SNP_P4_95646_22333203	NC_021166.1	Ca_kabuli_chr07	22333203	AA	TT	1946887784
SNP_P4_95647_22333221	NC_021166.1	Ca_kabuli_chr07	22333221	GG	AA	1946887786
SNP_P4_95648_22335859	NC_021166.1	Ca_kabuli_chr07	22335859	CC	TT	1946887788
SNP_P4_95649_22338485	NC_021166.1	Ca_kabuli_chr07	22338485	TT	GG	1946887790
SNP_P4_95650_22342233	NC_021166.1	Ca_kabuli_chr07	22342233	CC	TT	1946887792
SNP_P4_95651_22354410	NC_021166.1	Ca_kabuli_chr07	22354410	AA	GG	1946887794
SNP_P4_95653_22373356	NC_021166.1	Ca_kabuli_chr07	22373356	AA	GG	1946887796
SNP_P4_95654_22380548	NC_021166.1	Ca_kabuli_chr07	22380548	CC	AA	1946887798
SNP_P4_95655_22405733	NC_021166.1	Ca_kabuli_chr07	22405733	CC	TT	1946887800
SNP_P4_95656_22405750	NC_021166.1	Ca_kabuli_chr07	22405750	CC	TT	1946887802
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SNP_P4_95660_22435403	NC_021166.1	Ca_kabuli_chr07	22435403	TT	GG	1946887808
SNP_P4_95661_22456181	NC_021166.1	Ca_kabuli_chr07	22456181	TT	GG	1946887810
SNP_P4_95662_22456194	NC_021166.1	Ca_kabuli_chr07	22456194	TT	CC	1946887812
SNP_P4_95663_22456672	NC_021166.1	Ca_kabuli_chr07	22456672	CC	TT	1946887814
SNP_P4_95664_22467876	NC_021166.1	Ca_kabuli_chr07	22467876	AA	GG	1946887816
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SNP_P4_95666_22473843	NC_021166.1	Ca_kabuli_chr07	22473843	GG	AA	1946887820
SNP_P4_95669_22527751	NC_021166.1	Ca_kabuli_chr07	22527751	GG	AA	1946887822
SNP_P4_95670_22534232	NC_021166.1	Ca_kabuli_chr07	22534232	AA	GG	1946887824
SNP_P4_95671_22541001	NC_021166.1	Ca_kabuli_chr07	22541001	AA	GG	1946887826
SNP_P4_95672_22541261	NC_021166.1	Ca_kabuli_chr07	22541261	GG	AA	1946887828
SNP_P4_95675_22564792	NC_021166.1	Ca_kabuli_chr07	22564792	GG	AA	1946887830
SNP_P4_95676_22564829	NC_021166.1	Ca_kabuli_chr07	22564829	AA	TT	1946887832
SNP_P4_95677_22564852	NC_021166.1	Ca_kabuli_chr07	22564852	TT	GG	1946887834
SNP_P4_95678_22565175	NC_021166.1	Ca_kabuli_chr07	22565175	GG	AA	1946887836

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_95682_22587551	NC_021166.1	Ca_kabuli_chr07	22587551	CC	AA	1946887840
SNP_P4_95683_22593003	NC_021166.1	Ca_kabuli_chr07	22593003	AA	GG	1946887842
SNP_P4_95684_22597432	NC_021166.1	Ca_kabuli_chr07	22597432	TT	CC	1946887844
SNP_P4_95685_22597433	NC_021166.1	Ca_kabuli_chr07	22597433	GG	TT	1946887846
SNP_P4_95686_22597798	NC_021166.1	Ca_kabuli_chr07	22597798	TT	AA	1946887848
SNP_P4_95687_22597821	NC_021166.1	Ca_kabuli_chr07	22597821	TT	CC	1946887850
SNP_P4_95688_22598081	NC_021166.1	Ca_kabuli_chr07	22598081	TT	CC	1946887852
SNP_P4_95689_22664223	NC_021166.1	Ca_kabuli_chr07	22664223	CC	GG	1946887854
SNP_P4_95690_22664233	NC_021166.1	Ca_kabuli_chr07	22664233	GG	AA	1946887856
SNP_P4_95691_22664292	NC_021166.1	Ca_kabuli_chr07	22664292	AA	GG	1946887858
SNP_P4_95692_22664298	NC_021166.1	Ca_kabuli_chr07	22664298	AA	GG	1946887860
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SNP_P4_95694_22699759	NC_021166.1	Ca_kabuli_chr07	22699759	GG	TT	1946887864
SNP_P4_95695_22700549	NC_021166.1	Ca_kabuli_chr07	22700549	CC	TT	1946887866
SNP_P4_95696_22700880	NC_021166.1	Ca_kabuli_chr07	22700880	GG	AA	1946887868
SNP_P4_95697_22700892	NC_021166.1	Ca_kabuli_chr07	22700892	AA	CC	1946887870
SNP_P4_95698_22700896	NC_021166.1	Ca_kabuli_chr07	22700896	AA	GG	1946887872
SNP_P4_95699_22700898	NC_021166.1	Ca_kabuli_chr07	22700898	AA	GG	1946887874
SNP_P4_95700_22700903	NC_021166.1	Ca_kabuli_chr07	22700903	CC	TT	1946887876
SNP_P4_95701_22700913	NC_021166.1	Ca_kabuli_chr07	22700913	GG	TT	1946887878
SNP_P4_95702_22700917	NC_021166.1	Ca_kabuli_chr07	22700917	GG	AA	1946887880
SNP_P4_95703_22700918	NC_021166.1	Ca_kabuli_chr07	22700918	AA	GG	1946887882
SNP_P4_95705_22718942	NC_021166.1	Ca_kabuli_chr07	22718942	CC	AA	1946887884
SNP_P4_95706_22753944	NC_021166.1	Ca_kabuli_chr07	22753944	AA	GG	1946887886
SNP_P4_95707_22761942	NC_021166.1	Ca_kabuli_chr07	22761942	TT	AA	1946887888
SNP_P4_95708_22808643	NC_021166.1	Ca_kabuli_chr07	22808643	AA	GG	1946887890
SNP_P4_95709_22858274	NC_021166.1	Ca_kabuli_chr07	22858274	GG	TT	1946887892
SNP_P4_95710_22858737	NC_021166.1	Ca_kabuli_chr07	22858737	CC	TT	1946887894
SNP_P4_95711_22861403	NC_021166.1	Ca_kabuli_chr07	22861403	TT	GG	1946887896
SNP_P4_95712_22861427	NC_021166.1	Ca_kabuli_chr07	22861427	TT	CC	1946887898
SNP_P4_95713_22861445	NC_021166.1	Ca_kabuli_chr07	22861445	AA	GG	1946887900
SNP_P4_95714_22861446	NC_021166.1	Ca_kabuli_chr07	22861446	GG	AA	1946887902
SNP_P4_95715_22861448	NC_021166.1	Ca_kabuli_chr07	22861448	GG	TT	1946887904
SNP_P4_95716_22863637	NC_021166.1	Ca_kabuli_chr07	22863637	GG	AA	1946887906
SNP_P4_95717_22863664	NC_021166.1	Ca_kabuli_chr07	22863664	CC	AA	1946887908
SNP_P4_95718_22864237	NC_021166.1	Ca_kabuli_chr07	22864237	TT	AA	1946887910
SNP_P4_95719_22864273	NC_021166.1	Ca_kabuli_chr07	22864273	TT	CC	1946887912
SNP_P4_95720_22864289	NC_021166.1	Ca_kabuli_chr07	22864289	CC	TT	1946887914
SNP_P4_95721_22864330	NC_021166.1	Ca_kabuli_chr07	22864330	GG	AA	1946887916
SNP_P4_95722_22870772	NC_021166.1	Ca_kabuli_chr07	22870772	AA	GG	1946887919
SNP_P4_95724_22911950	NC_021166.1	Ca_kabuli_chr07	22911950	TT	CC	1946887921

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_95725_22911952	NC_021166.1	Ca_kabuli_chr07	22911952	GG	TT	1946887923
SNP_P4_95726_22911961	NC_021166.1	Ca_kabuli_chr07	22911961	AA	CC	1946887925
SNP_P4_95727_22911971	NC_021166.1	Ca_kabuli_chr07	22911971	CC	TT	1946887927
SNP_P4_95728_22912885	NC_021166.1	Ca_kabuli_chr07	22912885	CC	TT	1946887929
SNP_P4_95729_22914542	NC_021166.1	Ca_kabuli_chr07	22914542	CC	TT	1946887931
SNP_P4_95730_22921638	NC_021166.1	Ca_kabuli_chr07	22921638	TT	AA	1946887934
SNP_P4_95731_22921664	NC_021166.1	Ca_kabuli_chr07	22921664	AA	GG	1946887936
SNP_P4_95732_22921689	NC_021166.1	Ca_kabuli_chr07	22921689	CC	GG	1946887938
SNP_P4_95733_22921719	NC_021166.1	Ca_kabuli_chr07	22921719	CC	TT	1946887940
SNP_P4_95734_22921909	NC_021166.1	Ca_kabuli_chr07	22921909	GG	CC	1946887942
SNP_P4_95735_22921932	NC_021166.1	Ca_kabuli_chr07	22921932	AA	GG	1946887944
SNP_P4_95736_22921952	NC_021166.1	Ca_kabuli_chr07	22921952	AA	CC	1946887946
SNP_P4_95737_22921965	NC_021166.1	Ca_kabuli_chr07	22921965	TT	CC	1946887948
SNP_P4_95738_22921976	NC_021166.1	Ca_kabuli_chr07	22921976	AA	GG	1946887950
SNP_P4_95739_22922025	NC_021166.1	Ca_kabuli_chr07	22922025	AA	GG	1946887952
SNP_P4_95740_22922128	NC_021166.1	Ca_kabuli_chr07	22922128	GG	TT	1946887954
SNP_P4_95741_22924871	NC_021166.1	Ca_kabuli_chr07	22924871	GG	AA	1946887956
SNP_P4_95742_22941545	NC_021166.1	Ca_kabuli_chr07	22941545	CC	TT	1946887958
SNP_P4_95743_22947030	NC_021166.1	Ca_kabuli_chr07	22947030	TT	CC	1946887960
SNP_P4_95744_22947951	NC_021166.1	Ca_kabuli_chr07	22947951	GG	AA	1946887962
SNP_P4_95745_22953449	NC_021166.1	Ca_kabuli_chr07	22953449	AA	TT	1946887964
SNP_P4_95747_22960583	NC_021166.1	Ca_kabuli_chr07	22960583	AA	CC	1946887966
SNP_P4_95748_22969763	NC_021166.1	Ca_kabuli_chr07	22969763	TT	CC	1946887968
SNP_P4_95749_22969857	NC_021166.1	Ca_kabuli_chr07	22969857	CC	TT	1946887970
SNP_P4_95750_22969875	NC_021166.1	Ca_kabuli_chr07	22969875	TT	CC	1946887972
SNP_P4_95751_22969878	NC_021166.1	Ca_kabuli_chr07	22969878	GG	TT	1946887973
SNP_P4_95753_22969944	NC_021166.1	Ca_kabuli_chr07	22969944	AA	GG	1946887975
SNP_P4_95754_22977294	NC_021166.1	Ca_kabuli_chr07	22977294	TT	AA	1946887977
SNP_P4_95755_22980318	NC_021166.1	Ca_kabuli_chr07	22980318	CC	TT	1946887979
SNP_P4_95756_22987601	NC_021166.1	Ca_kabuli_chr07	22987601	TT	CC	1946887981
SNP_P4_95757_22992416	NC_021166.1	Ca_kabuli_chr07	22992416	AA	CC	1946887983
SNP_P4_95758_22992474	NC_021166.1	Ca_kabuli_chr07	22992474	AA	GG	1946887985
SNP_P4_95759_22992492	NC_021166.1	Ca_kabuli_chr07	22992492	GG	AA	1946887987
SNP_P4_95760_22992561	NC_021166.1	Ca_kabuli_chr07	22992561	CC	TT	1946887989
SNP_P4_95761_22992570	NC_021166.1	Ca_kabuli_chr07	22992570	TT	GG	1946887991
SNP_P4_95764_22992765	NC_021166.1	Ca_kabuli_chr07	22992765	CC	TT	1946887993
SNP_P4_95765_22992802	NC_021166.1	Ca_kabuli_chr07	22992802	AA	CC	1946887995
SNP_P4_95766_22992867	NC_021166.1	Ca_kabuli_chr07	22992867	TT	CC	1946887997
SNP_P4_95767_22992878	NC_021166.1	Ca_kabuli_chr07	22992878	AA	GG	1946888000
SNP_P4_95768_22992915	NC_021166.1	Ca_kabuli_chr07	22992915	CC	TT	1946888002
SNP_P4_95769_22992985	NC_021166.1	Ca_kabuli_chr07	22992985	CC	AA	1946888004
SNP_P4_95770_22993077	NC_021166.1	Ca_kabuli_chr07	22993077	GG	AA	1946888006

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_95772_22996031	NC_021166.1	Ca_kabuli_chr07	22996031	AA	TT	1946888010
SNP_P4_95773_22996032	NC_021166.1	Ca_kabuli_chr07	22996032	TT	AA	1946888012
SNP_P4_95774_23037456	NC_021166.1	Ca_kabuli_chr07	23037456	GG	TT	1946888014
SNP_P4_95775_23037469	NC_021166.1	Ca_kabuli_chr07	23037469	CC	TT	1946888016
SNP_P4_95776_23037533	NC_021166.1	Ca_kabuli_chr07	23037533	CC	TT	1946888019
SNP_P4_95778_23037800	NC_021166.1	Ca_kabuli_chr07	23037800	GG	AA	1946888021
SNP_P4_95779_23038213	NC_021166.1	Ca_kabuli_chr07	23038213	GG	AA	1946888023
SNP_P4_95780_23038380	NC_021166.1	Ca_kabuli_chr07	23038380	AA	GG	1946888025
SNP_P4_95781_23038537	NC_021166.1	Ca_kabuli_chr07	23038537	AA	TT	1946888027
SNP_P4_95782_23040601	NC_021166.1	Ca_kabuli_chr07	23040601	TT	CC	1946888029
SNP_P4_95783_23040869	NC_021166.1	Ca_kabuli_chr07	23040869	TT	AA	1946888031
SNP_P4_95785_23056566	NC_021166.1	Ca_kabuli_chr07	23056566	CC	TT	1946888033
SNP_P4_95786_23056601	NC_021166.1	Ca_kabuli_chr07	23056601	TT	AA	1946888035
SNP_P4_95788_23085664	NC_021166.1	Ca_kabuli_chr07	23085664	GG	AA	1946888037
SNP_P4_95789_23089125	NC_021166.1	Ca_kabuli_chr07	23089125	GG	AA	1946888039
SNP_P4_95790_23092894	NC_021166.1	Ca_kabuli_chr07	23092894	GG	AA	1946888041
SNP_P4_95791_23126448	NC_021166.1	Ca_kabuli_chr07	23126448	CC	TT	1946888043
SNP_P4_95792_23127613	NC_021166.1	Ca_kabuli_chr07	23127613	GG	AA	1946888045
SNP_P4_95793_23146290	NC_021166.1	Ca_kabuli_chr07	23146290	CC	TT	1946888047
SNP_P4_95794_23162239	NC_021166.1	Ca_kabuli_chr07	23162239	GG	TT	1946888050
SNP_P4_95795_23163580	NC_021166.1	Ca_kabuli_chr07	23163580	CC	TT	1946888052
SNP_P4_95796_23168674	NC_021166.1	Ca_kabuli_chr07	23168674	AA	GG	1946888055
SNP_P4_95798_23193340	NC_021166.1	Ca_kabuli_chr07	23193340	AA	GG	1946888057
SNP_P4_95799_23193376	NC_021166.1	Ca_kabuli_chr07	23193376	GG	AA	1946888059
SNP_P4_95800_23193557	NC_021166.1	Ca_kabuli_chr07	23193557	CC	TT	1946888061
SNP_P4_95801_23193576	NC_021166.1	Ca_kabuli_chr07	23193576	AA	GG	1946888063
SNP_P4_95802_23193577	NC_021166.1	Ca_kabuli_chr07	23193577	TT	CC	1946888065
SNP_P4_95803_23193594	NC_021166.1	Ca_kabuli_chr07	23193594	TT	CC	1946888067
SNP_P4_95804_23193619	NC_021166.1	Ca_kabuli_chr07	23193619	TT	GG	1946888069
SNP_P4_95805_23193706	NC_021166.1	Ca_kabuli_chr07	23193706	AA	GG	1946888071
SNP_P4_95806_23193707	NC_021166.1	Ca_kabuli_chr07	23193707	AA	GG	1946888074
SNP_P4_95808_23201499	NC_021166.1	Ca_kabuli_chr07	23201499	TT	AA	1946888076
SNP_P4_95809_23230420	NC_021166.1	Ca_kabuli_chr07	23230420	TT	GG	1946888078
SNP_P4_95810_23241247	NC_021166.1	Ca_kabuli_chr07	23241247	AA	CC	1946888080
SNP_P4_95811_23241335	NC_021166.1	Ca_kabuli_chr07	23241335	GG	AA	1946888082
SNP_P4_95812_23241701	NC_021166.1	Ca_kabuli_chr07	23241701	AA	CC	1946888084
SNP_P4_95813_23246774	NC_021166.1	Ca_kabuli_chr07	23246774	TT	CC	1946888086
SNP_P4_95814_23247163	NC_021166.1	Ca_kabuli_chr07	23247163	GG	AA	1946888089
SNP_P4_95815_23247180	NC_021166.1	Ca_kabuli_chr07	23247180	CC	TT	1946888091
SNP_P4_95816_23247187	NC_021166.1	Ca_kabuli_chr07	23247187	CC	TT	1946888093
SNP_P4_95817_23247189	NC_021166.1	Ca_kabuli_chr07	23247189	GG	AA	1946888095

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_95819_23247215	NC_021166.1	Ca_kabuli_chr07	23247215	TT	CC	1946888099
SNP_P4_95820_23247218	NC_021166.1	Ca_kabuli_chr07	23247218	GG	AA	1946888102
SNP_P4_95821_23247380	NC_021166.1	Ca_kabuli_chr07	23247380	GG	AA	1946888104
SNP_P4_95822_23250657	NC_021166.1	Ca_kabuli_chr07	23250657	AA	CC	1946888106
SNP_P4_95825_23266551	NC_021166.1	Ca_kabuli_chr07	23266551	TT	CC	1946888108
SNP_P4_95826_23279617	NC_021166.1	Ca_kabuli_chr07	23279617	AA	GG	1946888110
SNP_P4_95827_23280661	NC_021166.1	Ca_kabuli_chr07	23280661	AA	GG	1946888112
SNP_P4_95828_23285224	NC_021166.1	Ca_kabuli_chr07	23285224	AA	GG	1946888114
SNP_P4_95829_23285421	NC_021166.1	Ca_kabuli_chr07	23285421	AA	TT	1946888116
SNP_P4_95830_23285474	NC_021166.1	Ca_kabuli_chr07	23285474	AA	CC	1946888118
SNP_P4_95831_23285519	NC_021166.1	Ca_kabuli_chr07	23285519	CC	AA	1946888120
SNP_P4_95832_23293813	NC_021166.1	Ca_kabuli_chr07	23293813	GG	CC	1946888122
SNP_P4_95833_23294023	NC_021166.1	Ca_kabuli_chr07	23294023	CC	TT	1946888124
SNP_P4_95834_23294211	NC_021166.1	Ca_kabuli_chr07	23294211	AA	GG	1946888126
SNP_P4_95835_23299940	NC_021166.1	Ca_kabuli_chr07	23299940	CC	TT	1946888128
SNP_P4_95836_23333000	NC_021166.1	Ca_kabuli_chr07	23333000	AA	GG	1946888130
SNP_P4_95837_23333086	NC_021166.1	Ca_kabuli_chr07	23333086	TT	AA	1946888132
SNP_P4_95838_23342375	NC_021166.1	Ca_kabuli_chr07	23342375	TT	GG	1946888135
SNP_P4_95839_23361269	NC_021166.1	Ca_kabuli_chr07	23361269	TT	CC	1946888137
SNP_P4_95840_23361450	NC_021166.1	Ca_kabuli_chr07	23361450	GG	AA	1946888139
SNP_P4_95841_23361677	NC_021166.1	Ca_kabuli_chr07	23361677	GG	AA	1946888141
SNP_P4_95842_23361706	NC_021166.1	Ca_kabuli_chr07	23361706	CC	GG	1946888143
SNP_P4_95843_23380552	NC_021166.1	Ca_kabuli_chr07	23380552	AA	GG	1946888145
SNP_P4_95844_23383125	NC_021166.1	Ca_kabuli_chr07	23383125	CC	TT	1946888147
SNP_P4_95845_23385216	NC_021166.1	Ca_kabuli_chr07	23385216	GG	CC	1946888149
SNP_P4_95846_23390104	NC_021166.1	Ca_kabuli_chr07	23390104	CC	TT	1946888151
SNP_P4_95848_23457276	NC_021166.1	Ca_kabuli_chr07	23457276	CC	TT	1946888153
SNP_P4_95849_23484684	NC_021166.1	Ca_kabuli_chr07	23484684	GG	AA	1946888155
SNP_P4_95850_23497110	NC_021166.1	Ca_kabuli_chr07	23497110	TT	AA	1946888157
SNP_P4_95851_23550107	NC_021166.1	Ca_kabuli_chr07	23550107	GG	AA	1946888159
SNP_P4_95852_23553584	NC_021166.1	Ca_kabuli_chr07	23553584	CC	TT	1946888161
SNP_P4_95854_23596130	NC_021166.1	Ca_kabuli_chr07	23596130	CC	TT	1946888163
SNP_P4_95855_23603064	NC_021166.1	Ca_kabuli_chr07	23603064	GG	TT	1946888165
SNP_P4_95856_23627127	NC_021166.1	Ca_kabuli_chr07	23627127	AA	GG	1946888167
SNP_P4_95857_23627458	NC_021166.1	Ca_kabuli_chr07	23627458	AA	GG	1946888170
SNP_P4_95858_23627473	NC_021166.1	Ca_kabuli_chr07	23627473	AA	GG	1946888172
SNP_P4_95859_23627488	NC_021166.1	Ca_kabuli_chr07	23627488	AA	CC	1946888174
SNP_P4_95860_23627514	NC_021166.1	Ca_kabuli_chr07	23627514	GG	AA	1946888176
SNP_P4_95861_23632289	NC_021166.1	Ca_kabuli_chr07	23632289	TT	CC	1946888178
SNP_P4_95862_23656392	NC_021166.1	Ca_kabuli_chr07	23656392	CC	TT	1946888180
SNP_P4_95863_23656788	NC_021166.1	Ca_kabuli_chr07	23656788	TT	CC	1946888182

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_95865_23658590	NC_021166.1	Ca_kabuli_chr07	23658590	GG	AA	1946888186
SNP_P4_95866_23658667	NC_021166.1	Ca_kabuli_chr07	23658667	TT	CC	1946888188
SNP_P4_95867_23661573	NC_021166.1	Ca_kabuli_chr07	23661573	AA	CC	1946888190
SNP_P4_95868_23661579	NC_021166.1	Ca_kabuli_chr07	23661579	AA	GG	1946888192
SNP_P4_95870_23667863	NC_021166.1	Ca_kabuli_chr07	23667863	CC	TT	1946888194
SNP_P4_95871_23667867	NC_021166.1	Ca_kabuli_chr07	23667867	AA	GG	1946888196
SNP_P4_95872_23667882	NC_021166.1	Ca_kabuli_chr07	23667882	CC	TT	1946888198
SNP_P4_95873_23667970	NC_021166.1	Ca_kabuli_chr07	23667970	CC	AA	1946888200
SNP_P4_95874_23668019	NC_021166.1	Ca_kabuli_chr07	23668019	CC	AA	1946888202
SNP_P4_95875_23670250	NC_021166.1	Ca_kabuli_chr07	23670250	GG	AA	1946888204
SNP_P4_95876_23672093	NC_021166.1	Ca_kabuli_chr07	23672093	CC	TT	1946888206
SNP_P4_95877_23691041	NC_021166.1	Ca_kabuli_chr07	23691041	AA	GG	1946888208
SNP_P4_95878_23707537	NC_021166.1	Ca_kabuli_chr07	23707537	AA	TT	1946888210
SNP_P4_95879_23707651	NC_021166.1	Ca_kabuli_chr07	23707651	TT	AA	1946888212
SNP_P4_95880_23707883	NC_021166.1	Ca_kabuli_chr07	23707883	AA	GG	1946888214
SNP_P4_95881_23707911	NC_021166.1	Ca_kabuli_chr07	23707911	TT	CC	1946888216
SNP_P4_95882_23707932	NC_021166.1	Ca_kabuli_chr07	23707932	GG	AA	1946888218
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SNP_P4_95884_23707981	NC_021166.1	Ca_kabuli_chr07	23707981	AA	GG	1946888222
SNP_P4_95885_23708019	NC_021166.1	Ca_kabuli_chr07	23708019	CC	TT	1946888224
SNP_P4_95886_23718396	NC_021166.1	Ca_kabuli_chr07	23718396	TT	AA	1946888226
SNP_P4_95887_23724126	NC_021166.1	Ca_kabuli_chr07	23724126	GG	CC	1946888228
SNP_P4_95888_23724466	NC_021166.1	Ca_kabuli_chr07	23724466	AA	TT	1946888230
SNP_P4_95889_23724477	NC_021166.1	Ca_kabuli_chr07	23724477	GG	AA	1946888232
SNP_P4_95890_23728336	NC_021166.1	Ca_kabuli_chr07	23728336	GG	TT	1946888234
SNP_P4_95891_23728337	NC_021166.1	Ca_kabuli_chr07	23728337	AA	GG	1946888236
SNP_P4_95892_23728347	NC_021166.1	Ca_kabuli_chr07	23728347	CC	TT	1946888238
SNP_P4_95893_23728355	NC_021166.1	Ca_kabuli_chr07	23728355	CC	TT	1946888241
SNP_P4_95894_23751486	NC_021166.1	Ca_kabuli_chr07	23751486	GG	AA	1946888243
SNP_P4_95895_23766530	NC_021166.1	Ca_kabuli_chr07	23766530	GG	CC	1946888245
SNP_P4_95896_23766816	NC_021166.1	Ca_kabuli_chr07	23766816	AA	TT	1946888247
SNP_P4_95897_23766818	NC_021166.1	Ca_kabuli_chr07	23766818	CC	AA	1946888249
SNP_P4_95898_23775403	NC_021166.1	Ca_kabuli_chr07	23775403	AA	GG	1946888251
SNP_P4_95901_23798634	NC_021166.1	Ca_kabuli_chr07	23798634	AA	TT	1946888253
SNP_P4_95903_23807157	NC_021166.1	Ca_kabuli_chr07	23807157	AA	GG	1946888256
SNP_P4_95904_23807168	NC_021166.1	Ca_kabuli_chr07	23807168	AA	GG	1946888258
SNP_P4_95905_23807184	NC_021166.1	Ca_kabuli_chr07	23807184	CC	TT	1946888260
SNP_P4_95906_23807199	NC_021166.1	Ca_kabuli_chr07	23807199	GG	CC	1946888262
SNP_P4_95907_23807208	NC_021166.1	Ca_kabuli_chr07	23807208	TT	GG	1946888264
SNP_P4_95908_23807367	NC_021166.1	Ca_kabuli_chr07	23807367	AA	TT	1946888266
SNP_P4_95909_23807396	NC_021166.1	Ca_kabuli_chr07	23807396	AA	GG	1946888268

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_95912_23807450	NC_021166.1	Ca_kabuli_chr07	23807450	AA	TT	1946888272
SNP_P4_95913_23807528	NC_021166.1	Ca_kabuli_chr07	23807528	GG	AA	1946888275
SNP_P4_95914_23808121	NC_021166.1	Ca_kabuli_chr07	23808121	CC	TT	1946888277
SNP_P4_95915_23808155	NC_021166.1	Ca_kabuli_chr07	23808155	AA	TT	1946888279
SNP_P4_95916_23808562	NC_021166.1	Ca_kabuli_chr07	23808562	AA	GG	1946888281
SNP_P4_95917_23811810	NC_021166.1	Ca_kabuli_chr07	23811810	GG	TT	1946888283
SNP_P4_95918_23815462	NC_021166.1	Ca_kabuli_chr07	23815462	TT	AA	1946888285
SNP_P4_95919_23820032	NC_021166.1	Ca_kabuli_chr07	23820032	TT	AA	1946888287
SNP_P4_95920_23824521	NC_021166.1	Ca_kabuli_chr07	23824521	TT	CC	1946888289
SNP_P4_95921_23826428	NC_021166.1	Ca_kabuli_chr07	23826428	GG	AA	1946888291
SNP_P4_95922_23829231	NC_021166.1	Ca_kabuli_chr07	23829231	AA	TT	1946888294
SNP_P4_95923_23834881	NC_021166.1	Ca_kabuli_chr07	23834881	TT	CC	1946888296
SNP_P4_95924_23847620	NC_021166.1	Ca_kabuli_chr07	23847620	AA	GG	1946888298
SNP_P4_95925_23850788	NC_021166.1	Ca_kabuli_chr07	23850788	TT	AA	1946888300
SNP_P4_95927_23853389	NC_021166.1	Ca_kabuli_chr07	23853389	TT	CC	1946888302
SNP_P4_95929_23879151	NC_021166.1	Ca_kabuli_chr07	23879151	GG	TT	1946888304
SNP_P4_95930_23879255	NC_021166.1	Ca_kabuli_chr07	23879255	AA	GG	1946888306
SNP_P4_95931_23879372	NC_021166.1	Ca_kabuli_chr07	23879372	GG	TT	1946888308
SNP_P4_95932_23879380	NC_021166.1	Ca_kabuli_chr07	23879380	CC	TT	1946888310
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SNP_P4_95934_23879451	NC_021166.1	Ca_kabuli_chr07	23879451	TT	AA	1946888314
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SNP_P4_95936_23879477	NC_021166.1	Ca_kabuli_chr07	23879477	CC	TT	1946888318
SNP_P4_95937_23879482	NC_021166.1	Ca_kabuli_chr07	23879482	TT	AA	1946888320
SNP_P4_95938_23879513	NC_021166.1	Ca_kabuli_chr07	23879513	AA	TT	1946888322
SNP_P4_95939_23879530	NC_021166.1	Ca_kabuli_chr07	23879530	AA	CC	1946888324
SNP_P4_95940_23879531	NC_021166.1	Ca_kabuli_chr07	23879531	CC	AA	1946888326
SNP_P4_95941_23879560	NC_021166.1	Ca_kabuli_chr07	23879560	TT	AA	1946888328
SNP_P4_95942_23879576	NC_021166.1	Ca_kabuli_chr07	23879576	GG	CC	1946888330
SNP_P4_95943_23879594	NC_021166.1	Ca_kabuli_chr07	23879594	AA	GG	1946888332
SNP_P4_95944_23879615	NC_021166.1	Ca_kabuli_chr07	23879615	TT	CC	1946888334
SNP_P4_95945_23879684	NC_021166.1	Ca_kabuli_chr07	23879684	GG	AA	1946888336
SNP_P4_95946_23879685	NC_021166.1	Ca_kabuli_chr07	23879685	CC	AA	1946888338
SNP_P4_95947_23879690	NC_021166.1	Ca_kabuli_chr07	23879690	GG	AA	1946888340
SNP_P4_95948_23879728	NC_021166.1	Ca_kabuli_chr07	23879728	AA	GG	1946888342
SNP_P4_95950_23894186	NC_021166.1	Ca_kabuli_chr07	23894186	GG	AA	1946888344
SNP_P4_95951_23899148	NC_021166.1	Ca_kabuli_chr07	23899148	CC	GG	1946888346
SNP_P4_95952_23900962	NC_021166.1	Ca_kabuli_chr07	23900962	CC	TT	1946888348
SNP_P4_95953_23902081	NC_021166.1	Ca_kabuli_chr07	23902081	TT	CC	1946888350
SNP_P4_95954_23902427	NC_021166.1	Ca_kabuli_chr07	23902427	AA	GG	1946888352
SNP_P4_95955_23902457	NC_021166.1	Ca_kabuli_chr07	23902457	GG	TT	1946888354

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_95957_23902717	NC_021166.1	Ca_kabuli_chr07	23902717	AA	GG	1946888358
SNP_P4_95958_23903545	NC_021166.1	Ca_kabuli_chr07	23903545	GG	AA	1946888360
SNP_P4_95960_23905788	NC_021166.1	Ca_kabuli_chr07	23905788	CC	TT	1946888362
SNP_P4_95961_23907246	NC_021166.1	Ca_kabuli_chr07	23907246	GG	TT	1946888364
SNP_P4_95963_23912076	NC_021166.1	Ca_kabuli_chr07	23912076	GG	AA	1946888366
SNP_P4_95964_23917858	NC_021166.1	Ca_kabuli_chr07	23917858	GG	TT	1946888368
SNP_P4_95965_23930939	NC_021166.1	Ca_kabuli_chr07	23930939	TT	CC	1946888370
SNP_P4_95966_23976352	NC_021166.1	Ca_kabuli_chr07	23976352	CC	AA	1946888372
SNP_P4_95967_23978678	NC_021166.1	Ca_kabuli_chr07	23978678	TT	CC	1946888374
SNP_P4_95968_23978727	NC_021166.1	Ca_kabuli_chr07	23978727	AA	GG	1946888376
SNP_P4_95969_23979091	NC_021166.1	Ca_kabuli_chr07	23979091	TT	CC	1946888378
SNP_P4_95970_23979117	NC_021166.1	Ca_kabuli_chr07	23979117	AA	GG	1946888380
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SNP_P4_95972_23985001	NC_021166.1	Ca_kabuli_chr07	23985001	CC	TT	1946888383
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SNP_P4_95974_24000685	NC_021166.1	Ca_kabuli_chr07	24000685	CC	TT	1946888387
SNP_P4_95975_24000723	NC_021166.1	Ca_kabuli_chr07	24000723	TT	CC	1946888389
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SNP_P4_95978_24000738	NC_021166.1	Ca_kabuli_chr07	24000738	TT	CC	1946888395
SNP_P4_95979_24001315	NC_021166.1	Ca_kabuli_chr07	24001315	AA	GG	1946888397
SNP_P4_95980_24001324	NC_021166.1	Ca_kabuli_chr07	24001324	TT	GG	1946888399
SNP_P4_95981_24001338	NC_021166.1	Ca_kabuli_chr07	24001338	CC	TT	1946888401
SNP_P4_95982_24001343	NC_021166.1	Ca_kabuli_chr07	24001343	TT	CC	1946888403
SNP_P4_95983_24002208	NC_021166.1	Ca_kabuli_chr07	24002208	TT	CC	1946888405
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SNP_P4_95985_24002394	NC_021166.1	Ca_kabuli_chr07	24002394	CC	AA	1946888408
SNP_P4_95986_24002563	NC_021166.1	Ca_kabuli_chr07	24002563	CC	TT	1946888410
SNP_P4_95987_24002566	NC_021166.1	Ca_kabuli_chr07	24002566	CC	TT	1946888412
SNP_P4_95989_24027849	NC_021166.1	Ca_kabuli_chr07	24027849	AA	GG	1946888414
SNP_P4_95990_24035561	NC_021166.1	Ca_kabuli_chr07	24035561	GG	CC	1946888416
SNP_P4_95991_24037098	NC_021166.1	Ca_kabuli_chr07	24037098	TT	CC	1946888418
SNP_P4_95992_24037426	NC_021166.1	Ca_kabuli_chr07	24037426	AA	GG	1946888420
SNP_P4_95994_24081314	NC_021166.1	Ca_kabuli_chr07	24081314	GG	AA	1946888422
SNP_P4_95995_24098257	NC_021166.1	Ca_kabuli_chr07	24098257	TT	CC	1946888424
SNP_P4_95996_24098572	NC_021166.1	Ca_kabuli_chr07	24098572	TT	CC	1946888426
SNP_P4_95997_24098589	NC_021166.1	Ca_kabuli_chr07	24098589	AA	CC	1946888428
SNP_P4_95998_24098616	NC_021166.1	Ca_kabuli_chr07	24098616	AA	GG	1946888430
SNP_P4_95999_24098653	NC_021166.1	Ca_kabuli_chr07	24098653	TT	CC	1946888432
SNP_P4_96000_24098658	NC_021166.1	Ca_kabuli_chr07	24098658	TT	CC	1946888434
SNP_P4_96002_24103812	NC_021166.1	Ca_kabuli_chr07	24103812	GG	AA	1946888436

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_96004_24139068	NC_021166.1	Ca_kabuli_chr07	24139068	TT	GG	1946888440
SNP_P4_96005_24149903	NC_021166.1	Ca_kabuli_chr07	24149903	AA	GG	1946888442
SNP_P4_96006_24190845	NC_021166.1	Ca_kabuli_chr07	24190845	AA	CC	1946888445
SNP_P4_96007_24198589	NC_021166.1	Ca_kabuli_chr07	24198589	TT	CC	1946888447
SNP_P4_96008_24205821	NC_021166.1	Ca_kabuli_chr07	24205821	GG	AA	1946888449
SNP_P4_96010_24215025	NC_021166.1	Ca_kabuli_chr07	24215025	CC	TT	1946888451
SNP_P4_96011_24259061	NC_021166.1	Ca_kabuli_chr07	24259061	TT	GG	1946888453
SNP_P4_96012_24259494	NC_021166.1	Ca_kabuli_chr07	24259494	GG	AA	1946888455
SNP_P4_96013_24260137	NC_021166.1	Ca_kabuli_chr07	24260137	TT	GG	1946888457
SNP_P4_96014_24260172	NC_021166.1	Ca_kabuli_chr07	24260172	CC	AA	1946888459
SNP_P4_96016_24270234	NC_021166.1	Ca_kabuli_chr07	24270234	GG	AA	1946888461
SNP_P4_96019_24283257	NC_021166.1	Ca_kabuli_chr07	24283257	AA	GG	1946888463
SNP_P4_96020_24283925	NC_021166.1	Ca_kabuli_chr07	24283925	TT	AA	1946888465
SNP_P4_96021_24284079	NC_021166.1	Ca_kabuli_chr07	24284079	TT	AA	1946888467
SNP_P4_96023_24284992	NC_021166.1	Ca_kabuli_chr07	24284992	TT	CC	1946888469
SNP_P4_96024_24290899	NC_021166.1	Ca_kabuli_chr07	24290899	GG	AA	1946888471
SNP_P4_96025_24290906	NC_021166.1	Ca_kabuli_chr07	24290906	CC	TT	1946888473
SNP_P4_96026_24290913	NC_021166.1	Ca_kabuli_chr07	24290913	TT	CC	1946888475
SNP_P4_96027_24290915	NC_021166.1	Ca_kabuli_chr07	24290915	GG	AA	1946888477
SNP_P4_96028_24290974	NC_021166.1	Ca_kabuli_chr07	24290974	CC	TT	1946888479
SNP_P4_96029_24311321	NC_021166.1	Ca_kabuli_chr07	24311321	CC	TT	1946888481
SNP_P4_96030_24329591	NC_021166.1	Ca_kabuli_chr07	24329591	AA	GG	1946888483
SNP_P4_96031_24335219	NC_021166.1	Ca_kabuli_chr07	24335219	TT	AA	1946888485
SNP_P4_96032_24335225	NC_021166.1	Ca_kabuli_chr07	24335225	AA	GG	1946888487
SNP_P4_96033_24335283	NC_021166.1	Ca_kabuli_chr07	24335283	TT	GG	1946888489
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SNP_P4_96035_24335618	NC_021166.1	Ca_kabuli_chr07	24335618	GG	AA	1946888492
SNP_P4_96036_24344572	NC_021166.1	Ca_kabuli_chr07	24344572	CC	TT	1946888494
SNP_P4_96037_24344588	NC_021166.1	Ca_kabuli_chr07	24344588	GG	AA	1946888496
SNP_P4_96039_24348159	NC_021166.1	Ca_kabuli_chr07	24348159	TT	CC	1946888498
SNP_P4_96040_24348315	NC_021166.1	Ca_kabuli_chr07	24348315	CC	TT	1946888500
SNP_P4_96042_24348384	NC_021166.1	Ca_kabuli_chr07	24348384	TT	CC	1946888502
SNP_P4_96043_24348439	NC_021166.1	Ca_kabuli_chr07	24348439	AA	GG	1946888504
SNP_P4_96045_24348544	NC_021166.1	Ca_kabuli_chr07	24348544	CC	TT	1946888506
SNP_P4_96046_24348562	NC_021166.1	Ca_kabuli_chr07	24348562	TT	CC	1946888508
SNP_P4_96047_24348563	NC_021166.1	Ca_kabuli_chr07	24348563	GG	AA	1946888510
SNP_P4_96048_24348657	NC_021166.1	Ca_kabuli_chr07	24348657	AA	TT	1946888512
SNP_P4_96049_24348786	NC_021166.1	Ca_kabuli_chr07	24348786	GG	AA	1946888515
SNP_P4_96050_24348812	NC_021166.1	Ca_kabuli_chr07	24348812	CC	TT	1946888517
SNP_P4_96051_24350050	NC_021166.1	Ca_kabuli_chr07	24350050	CC	TT	1946888519
SNP_P4_96053_24363825	NC_021166.1	Ca_kabuli_chr07	24363825	TT	CC	1946888521

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_96055_24365838	NC_021166.1	Ca_kabuli_chr07	24365838	TT	AA	1946888525
SNP_P4_96056_24365851	NC_021166.1	Ca_kabuli_chr07	24365851	GG	AA	1946888527
SNP_P4_96057_24365880	NC_021166.1	Ca_kabuli_chr07	24365880	AA	GG	1946888529
SNP_P4_96058_24365906	NC_021166.1	Ca_kabuli_chr07	24365906	CC	TT	1946888531
SNP_P4_96059_24365928	NC_021166.1	Ca_kabuli_chr07	24365928	GG	AA	1946888533
SNP_P4_96060_24365969	NC_021166.1	Ca_kabuli_chr07	24365969	TT	GG	1946888535
SNP_P4_96061_24365970	NC_021166.1	Ca_kabuli_chr07	24365970	TT	GG	1946888537
SNP_P4_96062_24366144	NC_021166.1	Ca_kabuli_chr07	24366144	TT	AA	1946888539
SNP_P4_96063_24366275	NC_021166.1	Ca_kabuli_chr07	24366275	GG	AA	1946888541
SNP_P4_96064_24399010	NC_021166.1	Ca_kabuli_chr07	24399010	AA	GG	1946888543
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SNP_P4_96066_24399215	NC_021166.1	Ca_kabuli_chr07	24399215	TT	AA	1946888547
SNP_P4_96067_24408991	NC_021166.1	Ca_kabuli_chr07	24408991	TT	CC	1946888549
SNP_P4_96068_24420621	NC_021166.1	Ca_kabuli_chr07	24420621	TT	GG	1946888551
SNP_P4_96070_24428299	NC_021166.1	Ca_kabuli_chr07	24428299	CC	TT	1946888553
SNP_P4_96072_24436536	NC_021166.1	Ca_kabuli_chr07	24436536	TT	GG	1946888555
SNP_P4_96074_24453864	NC_021166.1	Ca_kabuli_chr07	24453864	AA	GG	1946888557
SNP_P4_96075_24454901	NC_021166.1	Ca_kabuli_chr07	24454901	GG	AA	1946888559
SNP_P4_96076_24454999	NC_021166.1	Ca_kabuli_chr07	24454999	TT	GG	1946888561
SNP_P4_96077_24456676	NC_021166.1	Ca_kabuli_chr07	24456676	CC	TT	1946888563
SNP_P4_96078_24456690	NC_021166.1	Ca_kabuli_chr07	24456690	AA	GG	1946888565
SNP_P4_96079_24456728	NC_021166.1	Ca_kabuli_chr07	24456728	GG	CC	1946888567
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SNP_P4_96083_24457164	NC_021166.1	Ca_kabuli_chr07	24457164	AA	CC	1946888576
SNP_P4_96084_24457175	NC_021166.1	Ca_kabuli_chr07	24457175	TT	CC	1946888578
SNP_P4_96085_24457176	NC_021166.1	Ca_kabuli_chr07	24457176	TT	CC	1946888580
SNP_P4_96086_24462676	NC_021166.1	Ca_kabuli_chr07	24462676	AA	GG	1946888582
SNP_P4_96087_24463083	NC_021166.1	Ca_kabuli_chr07	24463083	GG	AA	1946888584
SNP_P4_96088_24467422	NC_021166.1	Ca_kabuli_chr07	24467422	TT	CC	1946888586
SNP_P4_96089_24467742	NC_021166.1	Ca_kabuli_chr07	24467742	GG	AA	1946888588
SNP_P4_96091_24484911	NC_021166.1	Ca_kabuli_chr07	24484911	TT	CC	1946888590
SNP_P4_96092_24485163	NC_021166.1	Ca_kabuli_chr07	24485163	GG	AA	1946888592
SNP_P4_96093_24485165	NC_021166.1	Ca_kabuli_chr07	24485165	TT	AA	1946888594
SNP_P4_96094_24485195	NC_021166.1	Ca_kabuli_chr07	24485195	TT	CC	1946888596
SNP_P4_96095_24485201	NC_021166.1	Ca_kabuli_chr07	24485201	TT	CC	1946888598
SNP_P4_96096_24485232	NC_021166.1	Ca_kabuli_chr07	24485232	AA	TT	1946888600
SNP_P4_96098_24485283	NC_021166.1	Ca_kabuli_chr07	24485283	TT	CC	1946888602
SNP_P4_96099_24485309	NC_021166.1	Ca_kabuli_chr07	24485309	CC	TT	1946888604
SNP_P4_96100_24485316	NC_021166.1	Ca_kabuli_chr07	24485316	TT	CC	1946888606

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_96103_24485737	NC_021166.1	Ca_kabuli_chr07	24485737	CC	AA	1946888612
SNP_P4_96104_24485766	NC_021166.1	Ca_kabuli_chr07	24485766	GG	CC	1946888614
SNP_P4_96105_24485890	NC_021166.1	Ca_kabuli_chr07	24485890	AA	CC	1946888616
SNP_P4_96107_24486013	NC_021166.1	Ca_kabuli_chr07	24486013	TT	GG	1946888618
SNP_P4_96108_24486034	NC_021166.1	Ca_kabuli_chr07	24486034	CC	TT	1946888620
SNP_P4_96109_24486227	NC_021166.1	Ca_kabuli_chr07	24486227	AA	GG	1946888622
SNP_P4_96110_24486229	NC_021166.1	Ca_kabuli_chr07	24486229	AA	GG	1946888624
SNP_P4_96112_24488070	NC_021166.1	Ca_kabuli_chr07	24488070	AA	GG	1946888626
SNP_P4_96113_24490965	NC_021166.1	Ca_kabuli_chr07	24490965	AA	GG	1946888628
SNP_P4_96114_24492493	NC_021166.1	Ca_kabuli_chr07	24492493	GG	AA	1946888630
SNP_P4_96115_24492693	NC_021166.1	Ca_kabuli_chr07	24492693	CC	TT	1946888632
SNP_P4_96116_24492789	NC_021166.1	Ca_kabuli_chr07	24492789	GG	AA	1946888634
SNP_P4_96117_24492833	NC_021166.1	Ca_kabuli_chr07	24492833	GG	CC	1946888636
SNP_P4_96118_24492979	NC_021166.1	Ca_kabuli_chr07	24492979	AA	GG	1946888638
SNP_P4_96119_24493091	NC_021166.1	Ca_kabuli_chr07	24493091	TT	AA	1946888640
SNP_P4_96120_24493421	NC_021166.1	Ca_kabuli_chr07	24493421	AA	TT	1946888642
SNP_P4_96121_24493437	NC_021166.1	Ca_kabuli_chr07	24493437	GG	CC	1946888644
SNP_P4_96122_24493460	NC_021166.1	Ca_kabuli_chr07	24493460	AA	TT	1946888646
SNP_P4_96123_24493576	NC_021166.1	Ca_kabuli_chr07	24493576	CC	AA	1946888648
SNP_P4_96124_24494137	NC_021166.1	Ca_kabuli_chr07	24494137	CC	TT	1946888650
SNP_P4_96125_24494331	NC_021166.1	Ca_kabuli_chr07	24494331	AA	CC	1946888652
SNP_P4_96126_24494491	NC_021166.1	Ca_kabuli_chr07	24494491	CC	TT	1946888654
SNP_P4_96127_24494498	NC_021166.1	Ca_kabuli_chr07	24494498	AA	CC	1946888657
SNP_P4_96128_24494714	NC_021166.1	Ca_kabuli_chr07	24494714	CC	TT	1946888659
SNP_P4_96129_24494715	NC_021166.1	Ca_kabuli_chr07	24494715	TT	CC	1946888661
SNP_P4_96130_24494831	NC_021166.1	Ca_kabuli_chr07	24494831	TT	CC	1946888663
SNP_P4_96131_24495864	NC_021166.1	Ca_kabuli_chr07	24495864	CC	TT	1946888665
SNP_P4_96132_24495920	NC_021166.1	Ca_kabuli_chr07	24495920	CC	TT	1946888667
SNP_P4_96133_24496292	NC_021166.1	Ca_kabuli_chr07	24496292	AA	GG	1946888669
SNP_P4_96134_24496524	NC_021166.1	Ca_kabuli_chr07	24496524	TT	AA	1946888671
SNP_P4_96135_24496618	NC_021166.1	Ca_kabuli_chr07	24496618	GG	AA	1946888673
SNP_P4_96136_24496712	NC_021166.1	Ca_kabuli_chr07	24496712	CC	TT	1946888676
SNP_P4_96137_24497096	NC_021166.1	Ca_kabuli_chr07	24497096	CC	TT	1946888678
SNP_P4_96138_24501707	NC_021166.1	Ca_kabuli_chr07	24501707	CC	AA	1946888680
SNP_P4_96139_24501847	NC_021166.1	Ca_kabuli_chr07	24501847	GG	AA	1946888682
SNP_P4_96140_24502013	NC_021166.1	Ca_kabuli_chr07	24502013	GG	AA	1946888684
SNP_P4_96141_24502190	NC_021166.1	Ca_kabuli_chr07	24502190	CC	TT	1946888686
SNP_P4_96142_24502193	NC_021166.1	Ca_kabuli_chr07	24502193	GG	AA	1946888688
SNP_P4_96143_24502258	NC_021166.1	Ca_kabuli_chr07	24502258	GG	CC	1946888690
SNP_P4_96145_24502298	NC_021166.1	Ca_kabuli_chr07	24502298	CC	AA	1946888692

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_96147_24503296	NC_021166.1	Ca_kabuli_chr07	24503296	CC	TT	1946888696
SNP_P4_96148_24503372	NC_021166.1	Ca_kabuli_chr07	24503372	GG	AA	1946888699
SNP_P4_96149_24504212	NC_021166.1	Ca_kabuli_chr07	24504212	GG	CC	1946888701
SNP_P4_96150_24504220	NC_021166.1	Ca_kabuli_chr07	24504220	CC	TT	1946888703
SNP_P4_96151_24505226	NC_021166.1	Ca_kabuli_chr07	24505226	TT	CC	1946888705
SNP_P4_96152_24505288	NC_021166.1	Ca_kabuli_chr07	24505288	TT	AA	1946888707
SNP_P4_96153_24508766	NC_021166.1	Ca_kabuli_chr07	24508766	GG	AA	1946888709
SNP_P4_96154_24525755	NC_021166.1	Ca_kabuli_chr07	24525755	TT	CC	1946888711
SNP_P4_96155_24526087	NC_021166.1	Ca_kabuli_chr07	24526087	AA	GG	1946888713
SNP_P4_96156_24526108	NC_021166.1	Ca_kabuli_chr07	24526108	GG	TT	1946888715
SNP_P4_96157_24526131	NC_021166.1	Ca_kabuli_chr07	24526131	AA	GG	1946888717
SNP_P4_96158_24526145	NC_021166.1	Ca_kabuli_chr07	24526145	AA	GG	1946888719
SNP_P4_96160_24550955	NC_021166.1	Ca_kabuli_chr07	24550955	CC	GG	1946888721
SNP_P4_96161_24556525	NC_021166.1	Ca_kabuli_chr07	24556525	AA	TT	1946888723
SNP_P4_96162_24556546	NC_021166.1	Ca_kabuli_chr07	24556546	AA	TT	1946888725
SNP_P4_96163_24556593	NC_021166.1	Ca_kabuli_chr07	24556593	GG	AA	1946888727
SNP_P4_96164_24577696	NC_021166.1	Ca_kabuli_chr07	24577696	TT	CC	1946888729
SNP_P4_96165_24593872	NC_021166.1	Ca_kabuli_chr07	24593872	AA	TT	1946888731
SNP_P4_96166_24602193	NC_021166.1	Ca_kabuli_chr07	24602193	AA	CC	1946888733
SNP_P4_96167_24604790	NC_021166.1	Ca_kabuli_chr07	24604790	CC	GG	1946888735
SNP_P4_96168_24607578	NC_021166.1	Ca_kabuli_chr07	24607578	AA	CC	1946888737
SNP_P4_96169_24616734	NC_021166.1	Ca_kabuli_chr07	24616734	CC	AA	1946888739
SNP_P4_96170_24616744	NC_021166.1	Ca_kabuli_chr07	24616744	GG	AA	1946888741
SNP_P4_96171_24616828	NC_021166.1	Ca_kabuli_chr07	24616828	AA	GG	1946888743
SNP_P4_96172_24616856	NC_021166.1	Ca_kabuli_chr07	24616856	AA	TT	1946888745
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SNP_P4_96174_24625968	NC_021166.1	Ca_kabuli_chr07	24625968	CC	GG	1946888749
SNP_P4_96175_24626348	NC_021166.1	Ca_kabuli_chr07	24626348	TT	CC	1946888751
SNP_P4_96176_24633665	NC_021166.1	Ca_kabuli_chr07	24633665	CC	TT	1946888753
SNP_P4_96178_24652597	NC_021166.1	Ca_kabuli_chr07	24652597	GG	TT	1946888755
SNP_P4_96179_24661072	NC_021166.1	Ca_kabuli_chr07	24661072	GG	AA	1946888757
SNP_P4_96180_24700582	NC_021166.1	Ca_kabuli_chr07	24700582	CC	GG	1946888759
SNP_P4_96181_24700752	NC_021166.1	Ca_kabuli_chr07	24700752	AA	GG	1946888761
SNP_P4_96182_24710082	NC_021166.1	Ca_kabuli_chr07	24710082	TT	CC	1946888763
SNP_P4_96183_24710113	NC_021166.1	Ca_kabuli_chr07	24710113	TT	CC	1946888765
SNP_P4_96184_24710120	NC_021166.1	Ca_kabuli_chr07	24710120	GG	TT	1946888767
SNP_P4_96185_24710236	NC_021166.1	Ca_kabuli_chr07	24710236	TT	CC	1946888769
SNP_P4_96186_24710246	NC_021166.1	Ca_kabuli_chr07	24710246	AA	GG	1946888771
SNP_P4_96187_24710270	NC_021166.1	Ca_kabuli_chr07	24710270	AA	GG	1946888773
SNP_P4_96188_24710273	NC_021166.1	Ca_kabuli_chr07	24710273	GG	AA	1946888775
SNP_P4_96189_24710541	NC_021166.1	Ca_kabuli_chr07	24710541	CC	TT	1946888777

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_96191_24710585	NC_021166.1	Ca_kabuli_chr07	24710585	AA	GG	1946888781
SNP_P4_96192_24721830	NC_021166.1	Ca_kabuli_chr07	24721830	TT	CC	1946888783
SNP_P4_96194_24750590	NC_021166.1	Ca_kabuli_chr07	24750590	AA	GG	1946888785
SNP_P4_96195_24750617	NC_021166.1	Ca_kabuli_chr07	24750617	CC	TT	1946888787
SNP_P4_96196_24750633	NC_021166.1	Ca_kabuli_chr07	24750633	TT	GG	1946888789
SNP_P4_96197_24750635	NC_021166.1	Ca_kabuli_chr07	24750635	TT	CC	1946888791
SNP_P4_96198_24750649	NC_021166.1	Ca_kabuli_chr07	24750649	AA	GG	1946888793
SNP_P4_96199_24750701	NC_021166.1	Ca_kabuli_chr07	24750701	CC	AA	1946888795
SNP_P4_96200_24751381	NC_021166.1	Ca_kabuli_chr07	24751381	TT	CC	1946888797
SNP_P4_96201_24774777	NC_021166.1	Ca_kabuli_chr07	24774777	AA	TT	1946888799
SNP_P4_96202_24774916	NC_021166.1	Ca_kabuli_chr07	24774916	TT	CC	1946888801
SNP_P4_96203_24777799	NC_021166.1	Ca_kabuli_chr07	24777799	CC	AA	1946888803
SNP_P4_96204_24780845	NC_021166.1	Ca_kabuli_chr07	24780845	CC	TT	1946888805
SNP_P4_96206_24796010	NC_021166.1	Ca_kabuli_chr07	24796010	TT	CC	1946888807
SNP_P4_96207_24800434	NC_021166.1	Ca_kabuli_chr07	24800434	GG	AA	1946888809
SNP_P4_96208_24800507	NC_021166.1	Ca_kabuli_chr07	24800507	TT	AA	1946888811
SNP_P4_96209_24829588	NC_021166.1	Ca_kabuli_chr07	24829588	AA	GG	1946888813
SNP_P4_96210_24844997	NC_021166.1	Ca_kabuli_chr07	24844997	TT	CC	1946888815
SNP_P4_96211_24845132	NC_021166.1	Ca_kabuli_chr07	24845132	GG	TT	1946888817
SNP_P4_96212_24845183	NC_021166.1	Ca_kabuli_chr07	24845183	CC	TT	1946888819
SNP_P4_96213_24845352	NC_021166.1	Ca_kabuli_chr07	24845352	GG	AA	1946888821
SNP_P4_96214_24845357	NC_021166.1	Ca_kabuli_chr07	24845357	TT	GG	1946888823
SNP_P4_96215_24845362	NC_021166.1	Ca_kabuli_chr07	24845362	TT	CC	1946888825
SNP_P4_96216_24845388	NC_021166.1	Ca_kabuli_chr07	24845388	CC	TT	1946888827
SNP_P4_96217_24845389	NC_021166.1	Ca_kabuli_chr07	24845389	CC	TT	1946888830
SNP_P4_96218_24845487	NC_021166.1	Ca_kabuli_chr07	24845487	GG	AA	1946888832
SNP_P4_96219_24845514	NC_021166.1	Ca_kabuli_chr07	24845514	AA	TT	1946888834
SNP_P4_96220_24851261	NC_021166.1	Ca_kabuli_chr07	24851261	TT	CC	1946888836
SNP_P4_96221_24851266	NC_021166.1	Ca_kabuli_chr07	24851266	TT	CC	1946888838
SNP_P4_96222_24851322	NC_021166.1	Ca_kabuli_chr07	24851322	TT	CC	1946888840
SNP_P4_96223_24851326	NC_021166.1	Ca_kabuli_chr07	24851326	GG	AA	1946888842
SNP_P4_96224_24851343	NC_021166.1	Ca_kabuli_chr07	24851343	GG	AA	1946888844
SNP_P4_96225_24856523	NC_021166.1	Ca_kabuli_chr07	24856523	CC	GG	1946888847
SNP_P4_96226_24856530	NC_021166.1	Ca_kabuli_chr07	24856530	TT	GG	1946888849
SNP_P4_96227_24856545	NC_021166.1	Ca_kabuli_chr07	24856545	CC	AA	1946888851
SNP_P4_96228_24856552	NC_021166.1	Ca_kabuli_chr07	24856552	CC	TT	1946888853
SNP_P4_96229_24856563	NC_021166.1	Ca_kabuli_chr07	24856563	CC	GG	1946888855
SNP_P4_96230_24856896	NC_021166.1	Ca_kabuli_chr07	24856896	AA	GG	1946888857
SNP_P4_96232_24863170	NC_021166.1	Ca_kabuli_chr07	24863170	CC	TT	1946888859
SNP_P4_96234_24875409	NC_021166.1	Ca_kabuli_chr07	24875409	AA	GG	1946888862
SNP_P4_96235_24883123	NC_021166.1	Ca_kabuli_chr07	24883123	CC	TT	1946888864

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_96237_24886889	NC_021166.1	Ca_kabuli_chr07	24886889	GG	AA	1946888868
SNP_P4_96238_24941455	NC_021166.1	Ca_kabuli_chr07	24941455	TT	CC	1946888870
SNP_P4_96239_24949904	NC_021166.1	Ca_kabuli_chr07	24949904	AA	GG	1946888872
SNP_P4_96240_24983611	NC_021166.1	Ca_kabuli_chr07	24983611	GG	AA	1946888874
SNP_P4_96241_24990953	NC_021166.1	Ca_kabuli_chr07	24990953	CC	TT	1946888876
SNP_P4_96242_24991047	NC_021166.1	Ca_kabuli_chr07	24991047	CC	TT	1946888878
SNP_P4_96243_24992003	NC_021166.1	Ca_kabuli_chr07	24992003	CC	GG	1946888880
SNP_P4_96244_24992004	NC_021166.1	Ca_kabuli_chr07	24992004	AA	CC	1946888882
SNP_P4_96245_24992012	NC_021166.1	Ca_kabuli_chr07	24992012	TT	CC	1946888884
SNP_P4_96246_24992269	NC_021166.1	Ca_kabuli_chr07	24992269	AA	GG	1946888886
SNP_P4_96247_24992277	NC_021166.1	Ca_kabuli_chr07	24992277	AA	GG	1946888888
SNP_P4_96248_24992338	NC_021166.1	Ca_kabuli_chr07	24992338	GG	AA	1946888890
SNP_P4_96249_25013941	NC_021166.1	Ca_kabuli_chr07	25013941	GG	TT	1946888892
SNP_P4_96250_25028871	NC_021166.1	Ca_kabuli_chr07	25028871	GG	CC	1946888894
SNP_P4_96251_25030545	NC_021166.1	Ca_kabuli_chr07	25030545	CC	TT	1946888896
SNP_P4_96252_25030701	NC_021166.1	Ca_kabuli_chr07	25030701	GG	AA	1946888898
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SNP_P4_96258_25031257	NC_021166.1	Ca_kabuli_chr07	25031257	AA	TT	1946888910
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SNP_P4_96260_25031703	NC_021166.1	Ca_kabuli_chr07	25031703	CC	TT	1946888914
SNP_P4_96261_25031719	NC_021166.1	Ca_kabuli_chr07	25031719	AA	GG	1946888916
SNP_P4_96262_25031752	NC_021166.1	Ca_kabuli_chr07	25031752	AA	GG	1946888918
SNP_P4_96263_25050897	NC_021166.1	Ca_kabuli_chr07	25050897	AA	CC	1946888920
SNP_P4_96264_25050921	NC_021166.1	Ca_kabuli_chr07	25050921	CC	AA	1946888923
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SNP_P4_96268_25077197	NC_021166.1	Ca_kabuli_chr07	25077197	TT	AA	1946888929
SNP_P4_96269_25078586	NC_021166.1	Ca_kabuli_chr07	25078586	AA	GG	1946888931
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SNP_P4_96274_25078936	NC_021166.1	Ca_kabuli_chr07	25078936	CC	TT	1946888941
SNP_P4_96276_25080193	NC_021166.1	Ca_kabuli_chr07	25080193	GG	TT	1946888943
SNP_P4_96277_25080452	NC_021166.1	Ca_kabuli_chr07	25080452	GG	TT	1946888945
SNP_P4_96278_25104655	NC_021166.1	Ca_kabuli_chr07	25104655	GG	AA	1946888947
SNP_P4_96279_25104706	NC_021166.1	Ca_kabuli_chr07	25104706	AA	GG	1946888949

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_96284_25118841	NC_021166.1	Ca_kabuli_chr07	25118841	TT	CC	1946888955
SNP_P4_96285_25118861	NC_021166.1	Ca_kabuli_chr07	25118861	AA	GG	1946888957
SNP_P4_96286_25118908	NC_021166.1	Ca_kabuli_chr07	25118908	CC	TT	1946888959
SNP_P4_96287_25127915	NC_021166.1	Ca_kabuli_chr07	25127915	GG	AA	1946888961
SNP_P4_96288_25128350	NC_021166.1	Ca_kabuli_chr07	25128350	TT	GG	1946888963
SNP_P4_96290_25133391	NC_021166.1	Ca_kabuli_chr07	25133391	CC	GG	1946888965
SNP_P4_96291_25142690	NC_021166.1	Ca_kabuli_chr07	25142690	TT	GG	1946888967
SNP_P4_96292_25144302	NC_021166.1	Ca_kabuli_chr07	25144302	AA	GG	1946888969
SNP_P4_96293_25144616	NC_021166.1	Ca_kabuli_chr07	25144616	TT	CC	1946888971
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SNP_P4_96297_25151338	NC_021166.1	Ca_kabuli_chr07	25151338	TT	AA	1946888979
SNP_P4_96298_25151347	NC_021166.1	Ca_kabuli_chr07	25151347	GG	AA	1946888981
SNP_P4_96300_25202258	NC_021166.1	Ca_kabuli_chr07	25202258	GG	AA	1946888983
SNP_P4_96301_25206028	NC_021166.1	Ca_kabuli_chr07	25206028	AA	GG	1946888985
SNP_P4_96302_25206093	NC_021166.1	Ca_kabuli_chr07	25206093	AA	GG	1946888987
SNP_P4_96303_25206440	NC_021166.1	Ca_kabuli_chr07	25206440	AA	GG	1946888989
SNP_P4_96304_25206666	NC_021166.1	Ca_kabuli_chr07	25206666	TT	CC	1946888991
SNP_P4_96305_25207052	NC_021166.1	Ca_kabuli_chr07	25207052	TT	CC	1946888993
SNP_P4_96306_25213563	NC_021166.1	Ca_kabuli_chr07	25213563	GG	AA	1946888995
SNP_P4_96307_25216684	NC_021166.1	Ca_kabuli_chr07	25216684	GG	AA	1946888997
SNP_P4_96308_25218219	NC_021166.1	Ca_kabuli_chr07	25218219	CC	TT	1946888999
SNP_P4_96310_25219455	NC_021166.1	Ca_kabuli_chr07	25219455	GG	AA	1946889001
SNP_P4_96311_25236842	NC_021166.1	Ca_kabuli_chr07	25236842	CC	GG	1946889003
SNP_P4_96312_25245212	NC_021166.1	Ca_kabuli_chr07	25245212	TT	CC	1946889005
SNP_P4_96313_25247259	NC_021166.1	Ca_kabuli_chr07	25247259	GG	TT	1946889007
SNP_P4_96314_25247261	NC_021166.1	Ca_kabuli_chr07	25247261	GG	AA	1946889009
SNP_P4_96315_25247292	NC_021166.1	Ca_kabuli_chr07	25247292	TT	GG	1946889011
SNP_P4_96316_25247320	NC_021166.1	Ca_kabuli_chr07	25247320	GG	CC	1946889013
SNP_P4_96318_25264536	NC_021166.1	Ca_kabuli_chr07	25264536	AA	CC	1946889015
SNP_P4_96319_25278182	NC_021166.1	Ca_kabuli_chr07	25278182	TT	GG	1946889017
SNP_P4_96320_25278207	NC_021166.1	Ca_kabuli_chr07	25278207	GG	TT	1946889019
SNP_P4_96321_25278216	NC_021166.1	Ca_kabuli_chr07	25278216	CC	AA	1946889021
SNP_P4_96322_25278437	NC_021166.1	Ca_kabuli_chr07	25278437	AA	GG	1946889024
SNP_P4_96323_25278440	NC_021166.1	Ca_kabuli_chr07	25278440	TT	AA	1946889026
SNP_P4_96324_25278446	NC_021166.1	Ca_kabuli_chr07	25278446	TT	GG	1946889028
SNP_P4_96325_25278492	NC_021166.1	Ca_kabuli_chr07	25278492	CC	AA	1946889030
SNP_P4_96326_25278517	NC_021166.1	Ca_kabuli_chr07	25278517	CC	TT	1946889032
SNP_P4_96327_25278567	NC_021166.1	Ca_kabuli_chr07	25278567	CC	TT	1946889034

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_96329_25278845	NC_021166.1	Ca_kabuli_chr07	25278845	CC	TT	1946889039
SNP_P4_96330_25278914	NC_021166.1	Ca_kabuli_chr07	25278914	AA	CC	1946889041
SNP_P4_96331_25278915	NC_021166.1	Ca_kabuli_chr07	25278915	AA	GG	1946889043
SNP_P4_96332_25278918	NC_021166.1	Ca_kabuli_chr07	25278918	TT	AA	1946889045
SNP_P4_96333_25278951	NC_021166.1	Ca_kabuli_chr07	25278951	AA	TT	1946889047
SNP_P4_96334_25282385	NC_021166.1	Ca_kabuli_chr07	25282385	CC	TT	1946889049
SNP_P4_96335_25286716	NC_021166.1	Ca_kabuli_chr07	25286716	GG	AA	1946889051
SNP_P4_96336_25295783	NC_021166.1	Ca_kabuli_chr07	25295783	AA	GG	1946889053
SNP_P4_96337_25295856	NC_021166.1	Ca_kabuli_chr07	25295856	CC	TT	1946889055
SNP_P4_96338_25297373	NC_021166.1	Ca_kabuli_chr07	25297373	TT	CC	1946889057
SNP_P4_96339_25316062	NC_021166.1	Ca_kabuli_chr07	25316062	CC	GG	1946889060
SNP_P4_96340_25328594	NC_021166.1	Ca_kabuli_chr07	25328594	GG	AA	1946889062
SNP_P4_96342_25346088	NC_021166.1	Ca_kabuli_chr07	25346088	GG	TT	1946889064
SNP_P4_96344_25348122	NC_021166.1	Ca_kabuli_chr07	25348122	GG	AA	1946889066
SNP_P4_96345_25357635	NC_021166.1	Ca_kabuli_chr07	25357635	AA	GG	1946889068
SNP_P4_96346_25359378	NC_021166.1	Ca_kabuli_chr07	25359378	GG	AA	1946889070
SNP_P4_96347_25359398	NC_021166.1	Ca_kabuli_chr07	25359398	TT	AA	1946889072
SNP_P4_96348_25398479	NC_021166.1	Ca_kabuli_chr07	25398479	CC	GG	1946889074
SNP_P4_96349_25405303	NC_021166.1	Ca_kabuli_chr07	25405303	GG	AA	1946889076
SNP_P4_96351_25416924	NC_021166.1	Ca_kabuli_chr07	25416924	CC	TT	1946889078
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SNP_P4_96354_25437981	NC_021166.1	Ca_kabuli_chr07	25437981	TT	CC	1946889082
SNP_P4_96355_25438220	NC_021166.1	Ca_kabuli_chr07	25438220	TT	CC	1946889084
SNP_P4_96356_25438506	NC_021166.1	Ca_kabuli_chr07	25438506	TT	AA	1946889086
SNP_P4_96357_25449213	NC_021166.1	Ca_kabuli_chr07	25449213	GG	TT	1946889088
SNP_P4_96358_25466148	NC_021166.1	Ca_kabuli_chr07	25466148	TT	CC	1946889090
SNP_P4_96359_25466150	NC_021166.1	Ca_kabuli_chr07	25466150	AA	TT	1946889092
SNP_P4_96360_25466876	NC_021166.1	Ca_kabuli_chr07	25466876	TT	CC	1946889094
SNP_P4_96361_25466885	NC_021166.1	Ca_kabuli_chr07	25466885	TT	CC	1946889096
SNP_P4_96362_25467016	NC_021166.1	Ca_kabuli_chr07	25467016	CC	TT	1946889098
SNP_P4_96363_25467047	NC_021166.1	Ca_kabuli_chr07	25467047	AA	GG	1946889100
SNP_P4_96364_25467065	NC_021166.1	Ca_kabuli_chr07	25467065	AA	TT	1946889102
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SNP_P4_96366_25467360	NC_021166.1	Ca_kabuli_chr07	25467360	TT	GG	1946889106
SNP_P4_96367_25481681	NC_021166.1	Ca_kabuli_chr07	25481681	TT	CC	1946889108
SNP_P4_96368_25489488	NC_021166.1	Ca_kabuli_chr07	25489488	TT	CC	1946889110
SNP_P4_96369_25490527	NC_021166.1	Ca_kabuli_chr07	25490527	GG	AA	1946889113
SNP_P4_96370_25509802	NC_021166.1	Ca_kabuli_chr07	25509802	AA	CC	1946889115
SNP_P4_96371_25511590	NC_021166.1	Ca_kabuli_chr07	25511590	AA	GG	1946889117
SNP_P4_96372_25530389	NC_021166.1	Ca_kabuli_chr07	25530389	AA	TT	1946889119
SNP_P4_96373_25538601	NC_021166.1	Ca_kabuli_chr07	25538601	CC	TT	1946889121

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_96376_25539642	NC_021166.1	Ca_kabuli_chr07	25539642	GG	AA	1946889127
SNP_P4_96378_25540325	NC_021166.1	Ca_kabuli_chr07	25540325	TT	AA	1946889129
SNP_P4_96379_25543295	NC_021166.1	Ca_kabuli_chr07	25543295	AA	GG	1946889131
SNP_P4_96380_25543337	NC_021166.1	Ca_kabuli_chr07	25543337	AA	CC	1946889133
SNP_P4_96383_25570979	NC_021166.1	Ca_kabuli_chr07	25570979	TT	CC	1946889135
SNP_P4_96384_25617359	NC_021166.1	Ca_kabuli_chr07	25617359	TT	CC	1946889137
SNP_P4_96385_25617939	NC_021166.1	Ca_kabuli_chr07	25617939	TT	CC	1946889139
SNP_P4_96386_25626887	NC_021166.1	Ca_kabuli_chr07	25626887	CC	TT	1946889141
SNP_P4_96388_25626902	NC_021166.1	Ca_kabuli_chr07	25626902	AA	GG	1946889143
SNP_P4_96389_25665885	NC_021166.1	Ca_kabuli_chr07	25665885	CC	TT	1946889145
SNP_P4_96390_25675563	NC_021166.1	Ca_kabuli_chr07	25675563	GG	AA	1946889147
SNP_P4_96391_25683396	NC_021166.1	Ca_kabuli_chr07	25683396	TT	CC	1946889149
SNP_P4_96392_25683409	NC_021166.1	Ca_kabuli_chr07	25683409	CC	GG	1946889151
SNP_P4_96394_25721420	NC_021166.1	Ca_kabuli_chr07	25721420	CC	TT	1946889153
SNP_P4_96395_25746708	NC_021166.1	Ca_kabuli_chr07	25746708	AA	GG	1946889155
SNP_P4_96396_25755202	NC_021166.1	Ca_kabuli_chr07	25755202	TT	CC	1946889157
SNP_P4_96397_25768327	NC_021166.1	Ca_kabuli_chr07	25768327	AA	CC	1946889159
SNP_P4_96398_25773353	NC_021166.1	Ca_kabuli_chr07	25773353	TT	CC	1946889161
SNP_P4_96399_25774367	NC_021166.1	Ca_kabuli_chr07	25774367	GG	AA	1946889163
SNP_P4_96400_25774828	NC_021166.1	Ca_kabuli_chr07	25774828	TT	CC	1946889165
SNP_P4_96401_25810785	NC_021166.1	Ca_kabuli_chr07	25810785	CC	TT	1946889167
SNP_P4_96402_25816205	NC_021166.1	Ca_kabuli_chr07	25816205	TT	AA	1946889169
SNP_P4_96403_25816207	NC_021166.1	Ca_kabuli_chr07	25816207	AA	TT	1946889171
SNP_P4_96404_25816239	NC_021166.1	Ca_kabuli_chr07	25816239	AA	CC	1946889173
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SNP_P4_96406_25833163	NC_021166.1	Ca_kabuli_chr07	25833163	TT	CC	1946889177
SNP_P4_96407_25833222	NC_021166.1	Ca_kabuli_chr07	25833222	TT	CC	1946889179
SNP_P4_96408_25833385	NC_021166.1	Ca_kabuli_chr07	25833385	TT	CC	1946889181
SNP_P4_96409_25833789	NC_021166.1	Ca_kabuli_chr07	25833789	TT	GG	1946889183
SNP_P4_96410_25834027	NC_021166.1	Ca_kabuli_chr07	25834027	GG	AA	1946889185
SNP_P4_96411_25834136	NC_021166.1	Ca_kabuli_chr07	25834136	GG	TT	1946889187
SNP_P4_96412_25834199	NC_021166.1	Ca_kabuli_chr07	25834199	CC	TT	1946889189
SNP_P4_96413_25834413	NC_021166.1	Ca_kabuli_chr07	25834413	AA	TT	1946889191
SNP_P4_96414_25862052	NC_021166.1	Ca_kabuli_chr07	25862052	GG	AA	1946889193
SNP_P4_96415_25862117	NC_021166.1	Ca_kabuli_chr07	25862117	TT	CC	1946889195
SNP_P4_96416_25862137	NC_021166.1	Ca_kabuli_chr07	25862137	AA	CC	1946889197
SNP_P4_96417_25862216	NC_021166.1	Ca_kabuli_chr07	25862216	AA	TT	1946889200
SNP_P4_96418_25862462	NC_021166.1	Ca_kabuli_chr07	25862462	AA	GG	1946889202
SNP_P4_96419_25862496	NC_021166.1	Ca_kabuli_chr07	25862496	AA	TT	1946889204
SNP_P4_96420_25862531	NC_021166.1	Ca_kabuli_chr07	25862531	AA	GG	1946889206

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_96422_25863321	NC_021166.1	Ca_kabuli_chr07	25863321	CC	TT	1946889210
SNP_P4_96423_25871931	NC_021166.1	Ca_kabuli_chr07	25871931	CC	TT	1946889212
SNP_P4_96424_25871997	NC_021166.1	Ca_kabuli_chr07	25871997	AA	TT	1946889214
SNP_P4_96425_25872026	NC_021166.1	Ca_kabuli_chr07	25872026	GG	TT	1946889216
SNP_P4_96426_25872075	NC_021166.1	Ca_kabuli_chr07	25872075	GG	AA	1946889218
SNP_P4_96427_25872279	NC_021166.1	Ca_kabuli_chr07	25872279	GG	AA	1946889221
SNP_P4_96428_25891043	NC_021166.1	Ca_kabuli_chr07	25891043	GG	TT	1946889223
SNP_P4_96429_25899884	NC_021166.1	Ca_kabuli_chr07	25899884	TT	CC	1946889225
SNP_P4_96430_25900290	NC_021166.1	Ca_kabuli_chr07	25900290	CC	AA	1946889227
SNP_P4_96431_25900376	NC_021166.1	Ca_kabuli_chr07	25900376	GG	AA	1946889229
SNP_P4_96432_25904911	NC_021166.1	Ca_kabuli_chr07	25904911	TT	CC	1946889231
SNP_P4_96433_25905824	NC_021166.1	Ca_kabuli_chr07	25905824	CC	AA	1946889233
SNP_P4_96434_25906057	NC_021166.1	Ca_kabuli_chr07	25906057	AA	CC	1946889235
SNP_P4_96435_25911418	NC_021166.1	Ca_kabuli_chr07	25911418	TT	CC	1946889238
SNP_P4_96437_25918813	NC_021166.1	Ca_kabuli_chr07	25918813	GG	TT	1946889240
SNP_P4_96438_25920040	NC_021166.1	Ca_kabuli_chr07	25920040	TT	CC	1946889242
SNP_P4_96439_25976221	NC_021166.1	Ca_kabuli_chr07	25976221	CC	AA	1946889244
SNP_P4_96441_25990379	NC_021166.1	Ca_kabuli_chr07	25990379	TT	CC	1946889246
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SNP_P4_96444_25992521	NC_021166.1	Ca_kabuli_chr07	25992521	AA	GG	1946889252
SNP_P4_96445_26001365	NC_021166.1	Ca_kabuli_chr07	26001365	TT	AA	1946889254
SNP_P4_96447_26001890	NC_021166.1	Ca_kabuli_chr07	26001890	CC	GG	1946889257
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SNP_P4_96451_26020972	NC_021166.1	Ca_kabuli_chr07	26020972	AA	GG	1946889265
SNP_P4_96452_26025134	NC_021166.1	Ca_kabuli_chr07	26025134	TT	AA	1946889267
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SNP_P4_96454_26028091	NC_021166.1	Ca_kabuli_chr07	26028091	GG	AA	1946889271
SNP_P4_96455_26029738	NC_021166.1	Ca_kabuli_chr07	26029738	AA	TT	1946889273
SNP_P4_96456_26029898	NC_021166.1	Ca_kabuli_chr07	26029898	GG	AA	1946889275
SNP_P4_96458_26038075	NC_021166.1	Ca_kabuli_chr07	26038075	TT	CC	1946889277
SNP_P4_96459_26050533	NC_021166.1	Ca_kabuli_chr07	26050533	AA	GG	1946889279
SNP_P4_96460_26069614	NC_021166.1	Ca_kabuli_chr07	26069614	AA	GG	1946889281
SNP_P4_96461_26069635	NC_021166.1	Ca_kabuli_chr07	26069635	CC	TT	1946889283
SNP_P4_96462_26069636	NC_021166.1	Ca_kabuli_chr07	26069636	GG	AA	1946889286
SNP_P4_96464_26075635	NC_021166.1	Ca_kabuli_chr07	26075635	AA	GG	1946889288
SNP_P4_96466_26093994	NC_021166.1	Ca_kabuli_chr07	26093994	AA	CC	1946889290
SNP_P4_96468_26099329	NC_021166.1	Ca_kabuli_chr07	26099329	GG	TT	1946889292
SNP_P4_96469_26156596	NC_021166.1	Ca_kabuli_chr07	26156596	CC	AA	1946889294

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_96472_26160123	NC_021166.1	Ca_kabuli_chr07	26160123	AA	CC	1946889298
SNP_P4_96474_26160203	NC_021166.1	Ca_kabuli_chr07	26160203	CC	GG	1946889300
SNP_P4_96475_26160404	NC_021166.1	Ca_kabuli_chr07	26160404	CC	AA	1946889302
SNP_P4_96476_26160479	NC_021166.1	Ca_kabuli_chr07	26160479	CC	TT	1946889304
SNP_P4_96477_26160486	NC_021166.1	Ca_kabuli_chr07	26160486	AA	GG	1946889306
SNP_P4_96478_26160491	NC_021166.1	Ca_kabuli_chr07	26160491	CC	TT	1946889308
SNP_P4_96479_26160508	NC_021166.1	Ca_kabuli_chr07	26160508	AA	GG	1946889310
SNP_P4_96480_26160566	NC_021166.1	Ca_kabuli_chr07	26160566	CC	TT	1946889313
SNP_P4_96481_26160579	NC_021166.1	Ca_kabuli_chr07	26160579	TT	AA	1946889315
SNP_P4_96482_26160985	NC_021166.1	Ca_kabuli_chr07	26160985	TT	CC	1946889317
SNP_P4_96483_26168089	NC_021166.1	Ca_kabuli_chr07	26168089	GG	TT	1946889319
SNP_P4_96484_26168155	NC_021166.1	Ca_kabuli_chr07	26168155	CC	AA	1946889321
SNP_P4_96485_26168246	NC_021166.1	Ca_kabuli_chr07	26168246	AA	GG	1946889323
SNP_P4_96486_26168509	NC_021166.1	Ca_kabuli_chr07	26168509	AA	GG	1946889325
SNP_P4_96487_26168556	NC_021166.1	Ca_kabuli_chr07	26168556	GG	AA	1946889327
SNP_P4_96488_26168560	NC_021166.1	Ca_kabuli_chr07	26168560	TT	CC	1946889329
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SNP_P4_96490_26171161	NC_021166.1	Ca_kabuli_chr07	26171161	CC	TT	1946889333
SNP_P4_96491_26171343	NC_021166.1	Ca_kabuli_chr07	26171343	AA	TT	1946889335
SNP_P4_96492_26171352	NC_021166.1	Ca_kabuli_chr07	26171352	GG	AA	1946889337
SNP_P4_96493_26171501	NC_021166.1	Ca_kabuli_chr07	26171501	TT	AA	1946889339
SNP_P4_96494_26171533	NC_021166.1	Ca_kabuli_chr07	26171533	AA	TT	1946889341
SNP_P4_96495_26171549	NC_021166.1	Ca_kabuli_chr07	26171549	CC	TT	1946889343
SNP_P4_96496_26171577	NC_021166.1	Ca_kabuli_chr07	26171577	GG	AA	1946889345
SNP_P4_96497_26171590	NC_021166.1	Ca_kabuli_chr07	26171590	AA	GG	1946889347
SNP_P4_96499_26171676	NC_021166.1	Ca_kabuli_chr07	26171676	TT	AA	1946889349
SNP_P4_96500_26172006	NC_021166.1	Ca_kabuli_chr07	26172006	AA	GG	1946889350
SNP_P4_96501_26176884	NC_021166.1	Ca_kabuli_chr07	26176884	TT	GG	1946889351
SNP_P4_96503_26176960	NC_021166.1	Ca_kabuli_chr07	26176960	CC	TT	1946889353
SNP_P4_96504_26176961	NC_021166.1	Ca_kabuli_chr07	26176961	TT	AA	1946889355
SNP_P4_96505_26177011	NC_021166.1	Ca_kabuli_chr07	26177011	TT	CC	1946889357
SNP_P4_96506_26177014	NC_021166.1	Ca_kabuli_chr07	26177014	TT	AA	1946889359
SNP_P4_96507_26177031	NC_021166.1	Ca_kabuli_chr07	26177031	GG	AA	1946889361
SNP_P4_96508_26177067	NC_021166.1	Ca_kabuli_chr07	26177067	AA	CC	1946889363
SNP_P4_96509_26177359	NC_021166.1	Ca_kabuli_chr07	26177359	TT	CC	1946889365
SNP_P4_96510_26177410	NC_021166.1	Ca_kabuli_chr07	26177410	GG	TT	1946889367
SNP_P4_96511_26177478	NC_021166.1	Ca_kabuli_chr07	26177478	CC	TT	1946889369
SNP_P4_96512_26177549	NC_021166.1	Ca_kabuli_chr07	26177549	TT	CC	1946889371
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SNP_P4_96516_26177835	NC_021166.1	Ca_kabuli_chr07	26177835	GG	TT	1946889377

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_96518_26177894	NC_021166.1	Ca_kabuli_chr07	26177894	GG	AA	1946889381
SNP_P4_96519_26177896	NC_021166.1	Ca_kabuli_chr07	26177896	AA	GG	1946889383
SNP_P4_96520_26177954	NC_021166.1	Ca_kabuli_chr07	26177954	CC	TT	1946889385
SNP_P4_96521_26179650	NC_021166.1	Ca_kabuli_chr07	26179650	CC	TT	1946889387
SNP_P4_96522_26179690	NC_021166.1	Ca_kabuli_chr07	26179690	GG	TT	1946889389
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SNP_P4_96524_26181672	NC_021166.1	Ca_kabuli_chr07	26181672	AA	GG	1946889393
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SNP_P4_96526_26181702	NC_021166.1	Ca_kabuli_chr07	26181702	AA	TT	1946889398
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SNP_P4_96537_26220952	NC_021166.1	Ca_kabuli_chr07	26220952	GG	AA	1946889421
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SNP_P4_96556_26228014	NC_021166.1	Ca_kabuli_chr07	26228014	GG	AA	1946889457
SNP_P4_96558_26228664	NC_021166.1	Ca_kabuli_chr07	26228664	CC	TT	1946889459
SNP_P4_96559_26228984	NC_021166.1	Ca_kabuli_chr07	26228984	GG	TT	1946889461
SNP_P4_96560_26228996	NC_021166.1	Ca_kabuli_chr07	26228996	CC	TT	1946889463

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_96562_26229429	NC_021166.1	Ca_kabuli_chr07	26229429	CC	TT	1946889467
SNP_P4_96563_26229459	NC_021166.1	Ca_kabuli_chr07	26229459	TT	GG	1946889469
SNP_P4_96564_26229510	NC_021166.1	Ca_kabuli_chr07	26229510	GG	AA	1946889471
SNP_P4_96565_26229614	NC_021166.1	Ca_kabuli_chr07	26229614	GG	AA	1946889473
SNP_P4_96566_26229793	NC_021166.1	Ca_kabuli_chr07	26229793	CC	TT	1946889475
SNP_P4_96567_26229799	NC_021166.1	Ca_kabuli_chr07	26229799	AA	GG	1946889477
SNP_P4_96568_26229817	NC_021166.1	Ca_kabuli_chr07	26229817	AA	CC	1946889479
SNP_P4_96569_26230403	NC_021166.1	Ca_kabuli_chr07	26230403	CC	TT	1946889481
SNP_P4_96570_26230811	NC_021166.1	Ca_kabuli_chr07	26230811	TT	CC	1946889483
SNP_P4_96571_26230922	NC_021166.1	Ca_kabuli_chr07	26230922	GG	AA	1946889485
SNP_P4_96572_26231034	NC_021166.1	Ca_kabuli_chr07	26231034	CC	AA	1946889487
SNP_P4_96573_26231717	NC_021166.1	Ca_kabuli_chr07	26231717	CC	TT	1946889489
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SNP_P4_96575_26232248	NC_021166.1	Ca_kabuli_chr07	26232248	TT	AA	1946889493
SNP_P4_96576_26232464	NC_021166.1	Ca_kabuli_chr07	26232464	AA	CC	1946889495
SNP_P4_96577_26232640	NC_021166.1	Ca_kabuli_chr07	26232640	AA	GG	1946889497
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SNP_P4_96582_26234682	NC_021166.1	Ca_kabuli_chr07	26234682	CC	TT	1946889505
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SNP_P4_96596_26238151	NC_021166.1	Ca_kabuli_chr07	26238151	CC	TT	1946889531
SNP_P4_96597_26238516	NC_021166.1	Ca_kabuli_chr07	26238516	TT	CC	1946889533
SNP_P4_96598_26239336	NC_021166.1	Ca_kabuli_chr07	26239336	GG	AA	1946889535
SNP_P4_96599_26239860	NC_021166.1	Ca_kabuli_chr07	26239860	GG	AA	1946889537
SNP_P4_96600_26240179	NC_021166.1	Ca_kabuli_chr07	26240179	AA	GG	1946889539
SNP_P4_96601_26240589	NC_021166.1	Ca_kabuli_chr07	26240589	AA	TT	1946889541
SNP_P4_96602_26240592	NC_021166.1	Ca_kabuli_chr07	26240592	AA	TT	1946889543
SNP_P4_96603_26240695	NC_021166.1	Ca_kabuli_chr07	26240695	TT	AA	1946889545
SNP_P4_96604_26245030	NC_021166.1	Ca_kabuli_chr07	26245030	AA	CC	1946889547

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_96607_26248225	NC_021166.1	Ca_kabuli_chr07	26248225	GG	AA	1946889553
SNP_P4_96608_26258803	NC_021166.1	Ca_kabuli_chr07	26258803	GG	TT	1946889555
SNP_P4_96609_26259873	NC_021166.1	Ca_kabuli_chr07	26259873	GG	AA	1946889557
SNP_P4_96610_26260112	NC_021166.1	Ca_kabuli_chr07	26260112	GG	AA	1946889559
SNP_P4_96611_26260197	NC_021166.1	Ca_kabuli_chr07	26260197	TT	CC	1946889561
SNP_P4_96612_26260372	NC_021166.1	Ca_kabuli_chr07	26260372	CC	TT	1946889563
SNP_P4_96613_26260952	NC_021166.1	Ca_kabuli_chr07	26260952	TT	AA	1946889565
SNP_P4_96614_26261404	NC_021166.1	Ca_kabuli_chr07	26261404	GG	AA	1946889567
SNP_P4_96615_26263500	NC_021166.1	Ca_kabuli_chr07	26263500	AA	GG	1946889570
SNP_P4_96616_26263664	NC_021166.1	Ca_kabuli_chr07	26263664	GG	AA	1946889572
SNP_P4_96617_26264506	NC_021166.1	Ca_kabuli_chr07	26264506	CC	TT	1946889574
SNP_P4_96618_26264697	NC_021166.1	Ca_kabuli_chr07	26264697	GG	TT	1946889576
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SNP_P4_96621_26266678	NC_021166.1	Ca_kabuli_chr07	26266678	TT	CC	1946889582
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SNP_P4_96625_26268751	NC_021166.1	Ca_kabuli_chr07	26268751	AA	GG	1946889590
SNP_P4_96626_26269623	NC_021166.1	Ca_kabuli_chr07	26269623	AA	GG	1946889592
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SNP_P4_96633_26273220	NC_021166.1	Ca_kabuli_chr07	26273220	TT	AA	1946889607
SNP_P4_96634_26277458	NC_021166.1	Ca_kabuli_chr07	26277458	TT	AA	1946889609
SNP_P4_96635_26277508	NC_021166.1	Ca_kabuli_chr07	26277508	GG	AA	1946889611
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SNP_P4_96638_26277672	NC_021166.1	Ca_kabuli_chr07	26277672	GG	AA	1946889615
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SNP_P4_96640_26296999	NC_021166.1	Ca_kabuli_chr07	26296999	CC	TT	1946889619
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SNP_P4_96642_26319085	NC_021166.1	Ca_kabuli_chr07	26319085	GG	AA	1946889623
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SNP_P4_96644_26326541	NC_021166.1	Ca_kabuli_chr07	26326541	AA	TT	1946889628
SNP_P4_96646_26346585	NC_021166.1	Ca_kabuli_chr07	26346585	GG	AA	1946889630
SNP_P4_96647_26363672	NC_021166.1	Ca_kabuli_chr07	26363672	TT	CC	1946889632
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_96652_26375906	NC_021166.1	Ca_kabuli_chr07	26375906	CC	TT	1946889640
SNP_P4_96653_26375946	NC_021166.1	Ca_kabuli_chr07	26375946	AA	CC	1946889642
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SNP_P4_96655_26375984	NC_021166.1	Ca_kabuli_chr07	26375984	AA	GG	1946889647
SNP_P4_96656_26376213	NC_021166.1	Ca_kabuli_chr07	26376213	CC	GG	1946889649
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SNP_P4_96663_26437256	NC_021166.1	Ca_kabuli_chr07	26437256	GG	TT	1946889661
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SNP_P4_96690_26565142	NC_021166.1	Ca_kabuli_chr07	26565142	TT	CC	1946889716
SNP_P4_96691_26573018	NC_021166.1	Ca_kabuli_chr07	26573018	TT	CC	1946889718
SNP_P4_96692_26575175	NC_021166.1	Ca_kabuli_chr07	26575175	TT	CC	1946889720

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_96696_26575822	NC_021166.1	Ca_kabuli_chr07	26575822	AA	GG	1946889728
SNP_P4_96697_26575840	NC_021166.1	Ca_kabuli_chr07	26575840	GG	AA	1946889730
SNP_P4_96698_26575856	NC_021166.1	Ca_kabuli_chr07	26575856	CC	AA	1946889732
SNP_P4_96699_26575862	NC_021166.1	Ca_kabuli_chr07	26575862	AA	CC	1946889734
SNP_P4_96700_26643361	NC_021166.1	Ca_kabuli_chr07	26643361	AA	TT	1946889736
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SNP_P4_96703_26655423	NC_021166.1	Ca_kabuli_chr07	26655423	GG	AA	1946889742
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SNP_P4_96706_26691926	NC_021166.1	Ca_kabuli_chr07	26691926	CC	TT	1946889746
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SNP_P4_96709_26694825	NC_021166.1	Ca_kabuli_chr07	26694825	CC	AA	1946889750
SNP_P4_96710_26694829	NC_021166.1	Ca_kabuli_chr07	26694829	TT	CC	1946889752
SNP_P4_96711_26694863	NC_021166.1	Ca_kabuli_chr07	26694863	AA	CC	1946889754
SNP_P4_96712_26695291	NC_021166.1	Ca_kabuli_chr07	26695291	TT	CC	1946889757
SNP_P4_96713_26695924	NC_021166.1	Ca_kabuli_chr07	26695924	TT	CC	1946889759
SNP_P4_96715_26698579	NC_021166.1	Ca_kabuli_chr07	26698579	TT	CC	1946889761
SNP_P4_96716_26698682	NC_021166.1	Ca_kabuli_chr07	26698682	AA	GG	1946889763
SNP_P4_96717_26699275	NC_021166.1	Ca_kabuli_chr07	26699275	AA	GG	1946889765
SNP_P4_96718_26699289	NC_021166.1	Ca_kabuli_chr07	26699289	AA	GG	1946889767
SNP_P4_96719_26699344	NC_021166.1	Ca_kabuli_chr07	26699344	CC	GG	1946889769
SNP_P4_96720_26699346	NC_021166.1	Ca_kabuli_chr07	26699346	AA	GG	1946889771
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SNP_P4_96722_26699415	NC_021166.1	Ca_kabuli_chr07	26699415	CC	TT	1946889775
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SNP_P4_96726_26699899	NC_021166.1	Ca_kabuli_chr07	26699899	TT	CC	1946889783
SNP_P4_96727_26699943	NC_021166.1	Ca_kabuli_chr07	26699943	AA	GG	1946889785
SNP_P4_96728_26700038	NC_021166.1	Ca_kabuli_chr07	26700038	TT	AA	1946889787
SNP_P4_96729_26700316	NC_021166.1	Ca_kabuli_chr07	26700316	AA	GG	1946889789
SNP_P4_96730_26700368	NC_021166.1	Ca_kabuli_chr07	26700368	CC	GG	1946889791
SNP_P4_96731_26700373	NC_021166.1	Ca_kabuli_chr07	26700373	TT	CC	1946889793
SNP_P4_96732_26700382	NC_021166.1	Ca_kabuli_chr07	26700382	TT	CC	1946889796
SNP_P4_96733_26700395	NC_021166.1	Ca_kabuli_chr07	26700395	AA	GG	1946889798
SNP_P4_96734_26700412	NC_021166.1	Ca_kabuli_chr07	26700412	AA	GG	1946889800
SNP_P4_96735_26700803	NC_021166.1	Ca_kabuli_chr07	26700803	TT	GG	1946889802
SNP_P4_96737_26700879	NC_021166.1	Ca_kabuli_chr07	26700879	TT	CC	1946889804
SNP_P4_96738_26700892	NC_021166.1	Ca_kabuli_chr07	26700892	CC	GG	1946889806

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_96740_26700955	NC_021166.1	Ca_kabuli_chr07	26700955	TT	AA	1946889810
SNP_P4_96741_26700969	NC_021166.1	Ca_kabuli_chr07	26700969	TT	CC	1946889812
SNP_P4_96743_26701344	NC_021166.1	Ca_kabuli_chr07	26701344	TT	CC	1946889814
SNP_P4_96744_26701396	NC_021166.1	Ca_kabuli_chr07	26701396	GG	CC	1946889816
SNP_P4_96745_26701489	NC_021166.1	Ca_kabuli_chr07	26701489	CC	AA	1946889818
SNP_P4_96747_26701540	NC_021166.1	Ca_kabuli_chr07	26701540	AA	CC	1946889820
SNP_P4_96748_26701579	NC_021166.1	Ca_kabuli_chr07	26701579	GG	CC	1946889822
SNP_P4_96750_26701705	NC_021166.1	Ca_kabuli_chr07	26701705	AA	GG	1946889824
SNP_P4_96751_26702154	NC_021166.1	Ca_kabuli_chr07	26702154	GG	AA	1946889827
SNP_P4_96752_26702313	NC_021166.1	Ca_kabuli_chr07	26702313	TT	CC	1946889829
SNP_P4_96753_26702829	NC_021166.1	Ca_kabuli_chr07	26702829	CC	TT	1946889831
SNP_P4_96754_26702861	NC_021166.1	Ca_kabuli_chr07	26702861	AA	GG	1946889833
SNP_P4_96755_26702914	NC_021166.1	Ca_kabuli_chr07	26702914	AA	CC	1946889836
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SNP_P4_96757_26702936	NC_021166.1	Ca_kabuli_chr07	26702936	CC	GG	1946889840
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SNP_P4_96760_26703222	NC_021166.1	Ca_kabuli_chr07	26703222	AA	GG	1946889844
SNP_P4_96761_26703238	NC_021166.1	Ca_kabuli_chr07	26703238	GG	CC	1946889846
SNP_P4_96762_26703250	NC_021166.1	Ca_kabuli_chr07	26703250	TT	GG	1946889848
SNP_P4_96763_26703290	NC_021166.1	Ca_kabuli_chr07	26703290	AA	GG	1946889850
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SNP_P4_96766_26722381	NC_021166.1	Ca_kabuli_chr07	26722381	GG	TT	1946889854
SNP_P4_96767_26726213	NC_021166.1	Ca_kabuli_chr07	26726213	CC	TT	1946889856
SNP_P4_96768_26730430	NC_021166.1	Ca_kabuli_chr07	26730430	TT	CC	1946889858
SNP_P4_96769_26730446	NC_021166.1	Ca_kabuli_chr07	26730446	GG	TT	1946889860
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SNP_P4_96771_26738701	NC_021166.1	Ca_kabuli_chr07	26738701	TT	AA	1946889865
SNP_P4_96772_26754795	NC_021166.1	Ca_kabuli_chr07	26754795	TT	CC	1946889867
SNP_P4_96773_26756907	NC_021166.1	Ca_kabuli_chr07	26756907	CC	TT	1946889869
SNP_P4_96774_26758473	NC_021166.1	Ca_kabuli_chr07	26758473	TT	CC	1946889871
SNP_P4_96776_26758780	NC_021166.1	Ca_kabuli_chr07	26758780	AA	GG	1946889873
SNP_P4_96777_26771720	NC_021166.1	Ca_kabuli_chr07	26771720	TT	AA	1946889875
SNP_P4_96779_26799074	NC_021166.1	Ca_kabuli_chr07	26799074	CC	TT	1946889877
SNP_P4_96780_26799087	NC_021166.1	Ca_kabuli_chr07	26799087	GG	TT	1946889879
SNP_P4_96781_26799117	NC_021166.1	Ca_kabuli_chr07	26799117	CC	TT	1946889881
SNP_P4_96782_26799359	NC_021166.1	Ca_kabuli_chr07	26799359	AA	GG	1946889883
SNP_P4_96783_26799370	NC_021166.1	Ca_kabuli_chr07	26799370	CC	TT	1946889885
SNP_P4_96784_26799395	NC_021166.1	Ca_kabuli_chr07	26799395	TT	GG	1946889887
SNP_P4_96785_26799396	NC_021166.1	Ca_kabuli_chr07	26799396	TT	AA	1946889889
SNP_P4_96786_26799430	NC_021166.1	Ca_kabuli_chr07	26799430	TT	AA	1946889891
SNP_P4_96787_26799435	NC_021166.1	Ca_kabuli_chr07	26799435	GG	AA	1946889894

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_96790_26834244	NC_021166.1	Ca_kabuli_chr07	26834244	TT	CC	1946889900
SNP_P4_96792_26838051	NC_021166.1	Ca_kabuli_chr07	26838051	TT	CC	1946889902
SNP_P4_96793_26838707	NC_021166.1	Ca_kabuli_chr07	26838707	TT	CC	1946889904
SNP_P4_96794_26857250	NC_021166.1	Ca_kabuli_chr07	26857250	AA	GG	1946889906
SNP_P4_96795_26857559	NC_021166.1	Ca_kabuli_chr07	26857559	AA	CC	1946889908
SNP_P4_96796_26857573	NC_021166.1	Ca_kabuli_chr07	26857573	GG	AA	1946889910
SNP_P4_96797_26920713	NC_021166.1	Ca_kabuli_chr07	26920713	CC	AA	1946889912
SNP_P4_96799_26981489	NC_021166.1	Ca_kabuli_chr07	26981489	TT	GG	1946889914
SNP_P4_96800_26982293	NC_021166.1	Ca_kabuli_chr07	26982293	CC	TT	1946889916
SNP_P4_96801_26987520	NC_021166.1	Ca_kabuli_chr07	26987520	CC	GG	1946889918
SNP_P4_96802_26994485	NC_021166.1	Ca_kabuli_chr07	26994485	AA	TT	1946889920
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SNP_P4_96804_27009595	NC_021166.1	Ca_kabuli_chr07	27009595	CC	AA	1946889924
SNP_P4_96805_27009615	NC_021166.1	Ca_kabuli_chr07	27009615	CC	TT	1946889926
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SNP_P4_96807_27009735	NC_021166.1	Ca_kabuli_chr07	27009735	GG	AA	1946889930
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SNP_P4_96813_27042888	NC_021166.1	Ca_kabuli_chr07	27042888	AA	CC	1946889938
SNP_P4_96814_27043158	NC_021166.1	Ca_kabuli_chr07	27043158	TT	GG	1946889940
SNP_P4_96816_27043289	NC_021166.1	Ca_kabuli_chr07	27043289	AA	GG	1946889942
SNP_P4_96817_27043290	NC_021166.1	Ca_kabuli_chr07	27043290	TT	GG	1946889944
SNP_P4_96818_27043293	NC_021166.1	Ca_kabuli_chr07	27043293	CC	AA	1946889946
SNP_P4_96819_27043427	NC_021166.1	Ca_kabuli_chr07	27043427	AA	GG	1946889948
SNP_P4_96820_27046102	NC_021166.1	Ca_kabuli_chr07	27046102	CC	TT	1946889950
SNP_P4_96821_27070100	NC_021166.1	Ca_kabuli_chr07	27070100	CC	TT	1946889953
SNP_P4_96822_27070162	NC_021166.1	Ca_kabuli_chr07	27070162	GG	AA	1946889955
SNP_P4_96823_27070179	NC_021166.1	Ca_kabuli_chr07	27070179	AA	TT	1946889957
SNP_P4_96824_27070190	NC_021166.1	Ca_kabuli_chr07	27070190	GG	TT	1946889960
SNP_P4_96825_27070219	NC_021166.1	Ca_kabuli_chr07	27070219	AA	GG	1946889962
SNP_P4_96826_27077912	NC_021166.1	Ca_kabuli_chr07	27077912	AA	CC	1946889964
SNP_P4_96827_27097401	NC_021166.1	Ca_kabuli_chr07	27097401	GG	AA	1946889966
SNP_P4_96829_27115400	NC_021166.1	Ca_kabuli_chr07	27115400	CC	TT	1946889968
SNP_P4_96830_27166078	NC_021166.1	Ca_kabuli_chr07	27166078	TT	CC	1946889970
SNP_P4_96831_27187281	NC_021166.1	Ca_kabuli_chr07	27187281	GG	AA	1946889972
SNP_P4_96832_27187485	NC_021166.1	Ca_kabuli_chr07	27187485	GG	AA	1946889974
SNP_P4_96833_27187582	NC_021166.1	Ca_kabuli_chr07	27187582	CC	AA	1946889976
SNP_P4_96834_27188178	NC_021166.1	Ca_kabuli_chr07	27188178	CC	GG	1946889978
SNP_P4_96835_27188181	NC_021166.1	Ca_kabuli_chr07	27188181	AA	GG	1946889980

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_96837_27216180	NC_021166.1	Ca_kabuli_chr07	27216180	CC	TT	1946889984
SNP_P4_96838_27255804	NC_021166.1	Ca_kabuli_chr07	27255804	AA	GG	1946889986
SNP_P4_96839_27332393	NC_021166.1	Ca_kabuli_chr07	27332393	AA	GG	1946889988
SNP_P4_96840_27341222	NC_021166.1	Ca_kabuli_chr07	27341222	AA	GG	1946889990
SNP_P4_96842_27341371	NC_021166.1	Ca_kabuli_chr07	27341371	CC	TT	1946889992
SNP_P4_96843_27341388	NC_021166.1	Ca_kabuli_chr07	27341388	AA	GG	1946889994
SNP_P4_96844_27341391	NC_021166.1	Ca_kabuli_chr07	27341391	TT	AA	1946889996
SNP_P4_96845_27341417	NC_021166.1	Ca_kabuli_chr07	27341417	TT	AA	1946889998
SNP_P4_96846_27342997	NC_021166.1	Ca_kabuli_chr07	27342997	CC	TT	1946890000
SNP_P4_96848_27348707	NC_021166.1	Ca_kabuli_chr07	27348707	CC	TT	1946890002
SNP_P4_96849_27351516	NC_021166.1	Ca_kabuli_chr07	27351516	GG	AA	1946890004
SNP_P4_96850_27351588	NC_021166.1	Ca_kabuli_chr07	27351588	GG	AA	1946890006
SNP_P4_96851_27357312	NC_021166.1	Ca_kabuli_chr07	27357312	AA	GG	1946890008
SNP_P4_96852_27361060	NC_021166.1	Ca_kabuli_chr07	27361060	GG	TT	1946890010
SNP_P4_96854_27373290	NC_021166.1	Ca_kabuli_chr07	27373290	GG	AA	1946890013
SNP_P4_96856_27386555	NC_021166.1	Ca_kabuli_chr07	27386555	AA	GG	1946890015
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SNP_P4_96860_27396839	NC_021166.1	Ca_kabuli_chr07	27396839	TT	AA	1946890023
SNP_P4_96862_27396926	NC_021166.1	Ca_kabuli_chr07	27396926	AA	TT	1946890025
SNP_P4_96863_27451547	NC_021166.1	Ca_kabuli_chr07	27451547	GG	AA	1946890027
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SNP_P4_96868_27488049	NC_021166.1	Ca_kabuli_chr07	27488049	CC	TT	1946890035
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SNP_P4_96870_27488260	NC_021166.1	Ca_kabuli_chr07	27488260	TT	GG	1946890039
SNP_P4_96871_27495876	NC_021166.1	Ca_kabuli_chr07	27495876	TT	CC	1946890041
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SNP_P4_96873_27501253	NC_021166.1	Ca_kabuli_chr07	27501253	AA	GG	1946890046
SNP_P4_96874_27501292	NC_021166.1	Ca_kabuli_chr07	27501292	AA	CC	1946890048
SNP_P4_96875_27501307	NC_021166.1	Ca_kabuli_chr07	27501307	GG	AA	1946890050
SNP_P4_96876_27501707	NC_021166.1	Ca_kabuli_chr07	27501707	GG	AA	1946890052
SNP_P4_96877_27521090	NC_021166.1	Ca_kabuli_chr07	27521090	TT	CC	1946890054
SNP_P4_96878_27521186	NC_021166.1	Ca_kabuli_chr07	27521186	TT	AA	1946890056
SNP_P4_96880_27521573	NC_021166.1	Ca_kabuli_chr07	27521573	GG	AA	1946890058
SNP_P4_96882_27531321	NC_021166.1	Ca_kabuli_chr07	27531321	AA	GG	1946890060
SNP_P4_96883_27531329	NC_021166.1	Ca_kabuli_chr07	27531329	AA	GG	1946890063
SNP_P4_96884_27545456	NC_021166.1	Ca_kabuli_chr07	27545456	AA	TT	1946890065
SNP_P4_96885_27602571	NC_021166.1	Ca_kabuli_chr07	27602571	CC	TT	1946890067

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_96887_27647890	NC_021166.1	Ca_kabuli_chr07	27647890	TT	AA	1946890071
SNP_P4_96888_27647944	NC_021166.1	Ca_kabuli_chr07	27647944	CC	GG	1946890073
SNP_P4_96889_27662402	NC_021166.1	Ca_kabuli_chr07	27662402	CC	TT	1946890075
SNP_P4_96890_27703865	NC_021166.1	Ca_kabuli_chr07	27703865	TT	AA	1946890077
SNP_P4_96891_27709318	NC_021166.1	Ca_kabuli_chr07	27709318	GG	AA	1946890079
SNP_P4_96892_27725785	NC_021166.1	Ca_kabuli_chr07	27725785	TT	AA	1946890081
SNP_P4_96893_27731205	NC_021166.1	Ca_kabuli_chr07	27731205	AA	GG	1946890083
SNP_P4_96894_27731292	NC_021166.1	Ca_kabuli_chr07	27731292	GG	AA	1946890085
SNP_P4_96896_27745270	NC_021166.1	Ca_kabuli_chr07	27745270	AA	GG	1946890087
SNP_P4_96897_27761587	NC_021166.1	Ca_kabuli_chr07	27761587	CC	TT	1946890089
SNP_P4_96898_27761603	NC_021166.1	Ca_kabuli_chr07	27761603	TT	CC	1946890091
SNP_P4_96899_27761658	NC_021166.1	Ca_kabuli_chr07	27761658	GG	AA	1946890093
SNP_P4_96901_27775580	NC_021166.1	Ca_kabuli_chr07	27775580	CC	TT	1946890095
SNP_P4_96902_27775589	NC_021166.1	Ca_kabuli_chr07	27775589	AA	GG	1946890098
SNP_P4_96903_27782258	NC_021166.1	Ca_kabuli_chr07	27782258	GG	AA	1946890100
SNP_P4_96904_27794786	NC_021166.1	Ca_kabuli_chr07	27794786	TT	AA	1946890102
SNP_P4_96907_27833556	NC_021166.1	Ca_kabuli_chr07	27833556	TT	CC	1946890104
SNP_P4_96909_27838722	NC_021166.1	Ca_kabuli_chr07	27838722	CC	TT	1946890106
SNP_P4_96910_27840777	NC_021166.1	Ca_kabuli_chr07	27840777	TT	GG	1946890108
SNP_P4_96911_27845044	NC_021166.1	Ca_kabuli_chr07	27845044	AA	GG	1946890110
SNP_P4_96912_27859428	NC_021166.1	Ca_kabuli_chr07	27859428	GG	TT	1946890112
SNP_P4_96913_27859462	NC_021166.1	Ca_kabuli_chr07	27859462	GG	CC	1946890115
SNP_P4_96914_27874205	NC_021166.1	Ca_kabuli_chr07	27874205	TT	AA	1946890117
SNP_P4_96917_27922717	NC_021166.1	Ca_kabuli_chr07	27922717	AA	GG	1946890119
SNP_P4_96918_27922737	NC_021166.1	Ca_kabuli_chr07	27922737	TT	AA	1946890121
SNP_P4_96919_27925495	NC_021166.1	Ca_kabuli_chr07	27925495	AA	GG	1946890123
SNP_P4_96920_27935887	NC_021166.1	Ca_kabuli_chr07	27935887	GG	AA	1946890125
SNP_P4_96921_27939643	NC_021166.1	Ca_kabuli_chr07	27939643	TT	CC	1946890127
SNP_P4_96922_27939690	NC_021166.1	Ca_kabuli_chr07	27939690	TT	CC	1946890129
SNP_P4_96923_27939724	NC_021166.1	Ca_kabuli_chr07	27939724	AA	GG	1946890131
SNP_P4_96924_27939761	NC_021166.1	Ca_kabuli_chr07	27939761	AA	GG	1946890133
SNP_P4_96925_27939768	NC_021166.1	Ca_kabuli_chr07	27939768	CC	TT	1946890135
SNP_P4_96926_27939771	NC_021166.1	Ca_kabuli_chr07	27939771	CC	TT	1946890137
SNP_P4_96927_27939875	NC_021166.1	Ca_kabuli_chr07	27939875	AA	TT	1946890139
SNP_P4_96928_27940056	NC_021166.1	Ca_kabuli_chr07	27940056	AA	GG	1946890141
SNP_P4_96929_27940229	NC_021166.1	Ca_kabuli_chr07	27940229	GG	CC	1946890143
SNP_P4_96930_27944894	NC_021166.1	Ca_kabuli_chr07	27944894	CC	TT	1946890145
SNP_P4_96931_27979595	NC_021166.1	Ca_kabuli_chr07	27979595	GG	AA	1946890147
SNP_P4_96932_27979606	NC_021166.1	Ca_kabuli_chr07	27979606	CC	TT	1946890149
SNP_P4_96933_27979637	NC_021166.1	Ca_kabuli_chr07	27979637	GG	TT	1946890151
SNP_P4_96935_27986971	NC_021166.1	Ca_kabuli_chr07	27986971	GG	AA	1946890153

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_96936_28011041	NC_021166.1	Ca_kabuli_chr07	28011041	GG	AA	1946890155
SNP_P4_96937_28014420	NC_021166.1	Ca_kabuli_chr07	28014420	AA	TT	1946890157
SNP_P4_96938_28018744	NC_021166.1	Ca_kabuli_chr07	28018744	TT	CC	1946890159
SNP_P4_96939_28026954	NC_021166.1	Ca_kabuli_chr07	28026954	TT	GG	1946890161
SNP_P4_96940_28030602	NC_021166.1	Ca_kabuli_chr07	28030602	TT	CC	1946890163
SNP_P4_96941_28045592	NC_021166.1	Ca_kabuli_chr07	28045592	AA	TT	1946890165
SNP_P4_96942_28049353	NC_021166.1	Ca_kabuli_chr07	28049353	GG	TT	1946890167
SNP_P4_96943_28070982	NC_021166.1	Ca_kabuli_chr07	28070982	TT	AA	1946890169
SNP_P4_96944_28071206	NC_021166.1	Ca_kabuli_chr07	28071206	AA	CC	1946890172
SNP_P4_96945_28074925	NC_021166.1	Ca_kabuli_chr07	28074925	TT	CC	1946890174
SNP_P4_96946_28075004	NC_021166.1	Ca_kabuli_chr07	28075004	AA	TT	1946890176
SNP_P4_96947_28075106	NC_021166.1	Ca_kabuli_chr07	28075106	GG	TT	1946890178
SNP_P4_96948_28075293	NC_021166.1	Ca_kabuli_chr07	28075293	CC	TT	1946890180
SNP_P4_96949_28075305	NC_021166.1	Ca_kabuli_chr07	28075305	GG	AA	1946890182
SNP_P4_96950_28075328	NC_021166.1	Ca_kabuli_chr07	28075328	AA	GG	1946890184
SNP_P4_96951_28075355	NC_021166.1	Ca_kabuli_chr07	28075355	GG	AA	1946890186
SNP_P4_96952_28075368	NC_021166.1	Ca_kabuli_chr07	28075368	TT	CC	1946890188
SNP_P4_96953_28075370	NC_021166.1	Ca_kabuli_chr07	28075370	AA	GG	1946890190
SNP_P4_96954_28075382	NC_021166.1	Ca_kabuli_chr07	28075382	AA	GG	1946890192
SNP_P4_96955_28075418	NC_021166.1	Ca_kabuli_chr07	28075418	CC	GG	1946890194
SNP_P4_96956_28075438	NC_021166.1	Ca_kabuli_chr07	28075438	AA	GG	1946890196
SNP_P4_96957_28075441	NC_021166.1	Ca_kabuli_chr07	28075441	AA	TT	1946890198
SNP_P4_96958_28075463	NC_021166.1	Ca_kabuli_chr07	28075463	AA	GG	1946890201
SNP_P4_96959_28075469	NC_021166.1	Ca_kabuli_chr07	28075469	CC	TT	1946890203
SNP_P4_96960_28076335	NC_021166.1	Ca_kabuli_chr07	28076335	TT	CC	1946890205
SNP_P4_96961_28087286	NC_021166.1	Ca_kabuli_chr07	28087286	TT	CC	1946890207
SNP_P4_96962_28089276	NC_021166.1	Ca_kabuli_chr07	28089276	CC	AA	1946890209
SNP_P4_96963_28089287	NC_021166.1	Ca_kabuli_chr07	28089287	GG	AA	1946890211
SNP_P4_96965_28093582	NC_021166.1	Ca_kabuli_chr07	28093582	CC	GG	1946890213
SNP_P4_96966_28093725	NC_021166.1	Ca_kabuli_chr07	28093725	CC	TT	1946890215
SNP_P4_96967_28093745	NC_021166.1	Ca_kabuli_chr07	28093745	AA	TT	1946890217
SNP_P4_96968_28093755	NC_021166.1	Ca_kabuli_chr07	28093755	CC	TT	1946890219
SNP_P4_96969_28094014	NC_021166.1	Ca_kabuli_chr07	28094014	CC	AA	1946890221
SNP_P4_96970_28094158	NC_021166.1	Ca_kabuli_chr07	28094158	GG	TT	1946890223
SNP_P4_96971_28094305	NC_021166.1	Ca_kabuli_chr07	28094305	TT	AA	1946890225
SNP_P4_96972_28094346	NC_021166.1	Ca_kabuli_chr07	28094346	CC	TT	1946890227
SNP_P4_96973_28097961	NC_021166.1	Ca_kabuli_chr07	28097961	TT	CC	1946890229
SNP_P4_96974_28113248	NC_021166.1	Ca_kabuli_chr07	28113248	CC	AA	1946890231
SNP_P4_96975_28113256	NC_021166.1	Ca_kabuli_chr07	28113256	TT	CC	1946890233
SNP_P4_96976_28113262	NC_021166.1	Ca_kabuli_chr07	28113262	CC	AA	1946890235
SNP_P4_96977_28113271	NC_021166.1	Ca_kabuli_chr07	28113271	CC	TT	1946890237
SNP_P4_96978_28113301	NC_021166.1	Ca_kabuli_chr07	28113301	GG	AA	1946890239

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_96980_28126419	NC_021166.1	Ca_kabuli_chr07	28126419	TT	AA	1946890243
SNP_P4_96982_28137637	NC_021166.1	Ca_kabuli_chr07	28137637	AA	GG	1946890245
SNP_P4_96983_28137664	NC_021166.1	Ca_kabuli_chr07	28137664	TT	AA	1946890247
SNP_P4_96984_28139307	NC_021166.1	Ca_kabuli_chr07	28139307	CC	TT	1946890249
SNP_P4_96985_28146839	NC_021166.1	Ca_kabuli_chr07	28146839	AA	CC	1946890252
SNP_P4_96986_28164055	NC_021166.1	Ca_kabuli_chr07	28164055	GG	AA	1946890254
SNP_P4_96987_28164078	NC_021166.1	Ca_kabuli_chr07	28164078	AA	GG	1946890256
SNP_P4_96988_28182605	NC_021166.1	Ca_kabuli_chr07	28182605	AA	GG	1946890258
SNP_P4_96989_28185100	NC_021166.1	Ca_kabuli_chr07	28185100	AA	TT	1946890260
SNP_P4_96990_28186022	NC_021166.1	Ca_kabuli_chr07	28186022	CC	TT	1946890262
SNP_P4_96991_28186023	NC_021166.1	Ca_kabuli_chr07	28186023	CC	TT	1946890264
SNP_P4_96994_28190095	NC_021166.1	Ca_kabuli_chr07	28190095	AA	TT	1946890266
SNP_P4_96995_28190186	NC_021166.1	Ca_kabuli_chr07	28190186	AA	CC	1946890268
SNP_P4_96997_28190228	NC_021166.1	Ca_kabuli_chr07	28190228	TT	CC	1946890270
SNP_P4_96998_28219639	NC_021166.1	Ca_kabuli_chr07	28219639	GG	AA	1946890272
SNP_P4_96999_28220285	NC_021166.1	Ca_kabuli_chr07	28220285	CC	AA	1946890274
SNP_P4_97000_28220351	NC_021166.1	Ca_kabuli_chr07	28220351	CC	TT	1946890276
SNP_P4_97001_28220353	NC_021166.1	Ca_kabuli_chr07	28220353	CC	TT	1946890278
SNP_P4_97002_28221217	NC_021166.1	Ca_kabuli_chr07	28221217	TT	AA	1946890280
SNP_P4_97004_28240484	NC_021166.1	Ca_kabuli_chr07	28240484	AA	CC	1946890281
SNP_P4_97005_28240490	NC_021166.1	Ca_kabuli_chr07	28240490	AA	GG	1946890283
SNP_P4_97006_28240501	NC_021166.1	Ca_kabuli_chr07	28240501	GG	TT	1946890285
SNP_P4_97007_28240517	NC_021166.1	Ca_kabuli_chr07	28240517	AA	GG	1946890287
SNP_P4_97008_28240540	NC_021166.1	Ca_kabuli_chr07	28240540	TT	AA	1946890289
SNP_P4_97009_28240545	NC_021166.1	Ca_kabuli_chr07	28240545	CC	AA	1946890291
SNP_P4_97010_28240603	NC_021166.1	Ca_kabuli_chr07	28240603	GG	TT	1946890294
SNP_P4_97011_28240611	NC_021166.1	Ca_kabuli_chr07	28240611	TT	CC	1946890296
SNP_P4_97012_28240620	NC_021166.1	Ca_kabuli_chr07	28240620	AA	GG	1946890298
SNP_P4_97013_28240810	NC_021166.1	Ca_kabuli_chr07	28240810	TT	GG	1946890300
SNP_P4_97014_28240834	NC_021166.1	Ca_kabuli_chr07	28240834	TT	CC	1946890302
SNP_P4_97015_28240887	NC_021166.1	Ca_kabuli_chr07	28240887	CC	TT	1946890304
SNP_P4_97016_28240895	NC_021166.1	Ca_kabuli_chr07	28240895	CC	GG	1946890306
SNP_P4_97017_28240905	NC_021166.1	Ca_kabuli_chr07	28240905	CC	TT	1946890308
SNP_P4_97018_28246091	NC_021166.1	Ca_kabuli_chr07	28246091	CC	TT	1946890310
SNP_P4_97019_28254964	NC_021166.1	Ca_kabuli_chr07	28254964	AA	GG	1946890312
SNP_P4_97020_28254965	NC_021166.1	Ca_kabuli_chr07	28254965	AA	GG	1946890314
SNP_P4_97021_28257074	NC_021166.1	Ca_kabuli_chr07	28257074	CC	AA	1946890316
SNP_P4_97022_28286981	NC_021166.1	Ca_kabuli_chr07	28286981	AA	CC	1946890318
SNP_P4_97023_28286990	NC_021166.1	Ca_kabuli_chr07	28286990	CC	AA	1946890320
SNP_P4_97024_28286997	NC_021166.1	Ca_kabuli_chr07	28286997	CC	AA	1946890322
SNP_P4_97026_28321761	NC_021166.1	Ca_kabuli_chr07	28321761	CC	TT	1946890324

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_97028_28328838	NC_021166.1	Ca_kabuli_chr07	28328838	CC	TT	1946890328
SNP_P4_97029_28335039	NC_021166.1	Ca_kabuli_chr07	28335039	CC	TT	1946890330
SNP_P4_97031_28336461	NC_021166.1	Ca_kabuli_chr07	28336461	AA	GG	1946890332
SNP_P4_97033_28351619	NC_021166.1	Ca_kabuli_chr07	28351619	TT	GG	1946890334
SNP_P4_97035_28352872	NC_021166.1	Ca_kabuli_chr07	28352872	TT	CC	1946890336
SNP_P4_97036_28353550	NC_021166.1	Ca_kabuli_chr07	28353550	TT	AA	1946890338
SNP_P4_97037_28372355	NC_021166.1	Ca_kabuli_chr07	28372355	GG	AA	1946890340
SNP_P4_97038_28381212	NC_021166.1	Ca_kabuli_chr07	28381212	GG	AA	1946890342
SNP_P4_97039_28387885	NC_021166.1	Ca_kabuli_chr07	28387885	GG	TT	1946890344
SNP_P4_97040_28396341	NC_021166.1	Ca_kabuli_chr07	28396341	CC	TT	1946890346
SNP_P4_97041_28401444	NC_021166.1	Ca_kabuli_chr07	28401444	CC	TT	1946890348
SNP_P4_97042_28436160	NC_021166.1	Ca_kabuli_chr07	28436160	AA	GG	1946890350
SNP_P4_97044_28486610	NC_021166.1	Ca_kabuli_chr07	28486610	CC	TT	1946890352
SNP_P4_97045_28495348	NC_021166.1	Ca_kabuli_chr07	28495348	GG	AA	1946890355
SNP_P4_97046_28498717	NC_021166.1	Ca_kabuli_chr07	28498717	TT	CC	1946890357
SNP_P4_97047_28498726	NC_021166.1	Ca_kabuli_chr07	28498726	TT	AA	1946890359
SNP_P4_97048_28499558	NC_021166.1	Ca_kabuli_chr07	28499558	CC	TT	1946890361
SNP_P4_97050_28517980	NC_021166.1	Ca_kabuli_chr07	28517980	AA	GG	1946890363
SNP_P4_97051_28529061	NC_021166.1	Ca_kabuli_chr07	28529061	GG	AA	1946890366
SNP_P4_97052_28529062	NC_021166.1	Ca_kabuli_chr07	28529062	AA	TT	1946890368
SNP_P4_97054_28529866	NC_021166.1	Ca_kabuli_chr07	28529866	AA	CC	1946890370
SNP_P4_97056_28556902	NC_021166.1	Ca_kabuli_chr07	28556902	AA	CC	1946890372
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SNP_P4_97060_28557203	NC_021166.1	Ca_kabuli_chr07	28557203	GG	AA	1946890381
SNP_P4_97062_28557249	NC_021166.1	Ca_kabuli_chr07	28557249	GG	TT	1946890383
SNP_P4_97063_28561207	NC_021166.1	Ca_kabuli_chr07	28561207	TT	CC	1946890385
SNP_P4_97064_28561217	NC_021166.1	Ca_kabuli_chr07	28561217	GG	TT	1946890387
SNP_P4_97065_28561337	NC_021166.1	Ca_kabuli_chr07	28561337	CC	TT	1946890389
SNP_P4_97066_28561376	NC_021166.1	Ca_kabuli_chr07	28561376	GG	CC	1946890391
SNP_P4_97067_28561399	NC_021166.1	Ca_kabuli_chr07	28561399	GG	AA	1946890393
SNP_P4_97068_28561428	NC_021166.1	Ca_kabuli_chr07	28561428	TT	CC	1946890395
SNP_P4_97071_28589780	NC_021166.1	Ca_kabuli_chr07	28589780	AA	GG	1946890397
SNP_P4_97072_28591551	NC_021166.1	Ca_kabuli_chr07	28591551	CC	TT	1946890399
SNP_P4_97073_28606804	NC_021166.1	Ca_kabuli_chr07	28606804	TT	GG	1946890401
SNP_P4_97075_28638938	NC_021166.1	Ca_kabuli_chr07	28638938	CC	AA	1946890403
SNP_P4_97077_28656014	NC_021166.1	Ca_kabuli_chr07	28656014	CC	GG	1946890405
SNP_P4_97078_28695614	NC_021166.1	Ca_kabuli_chr07	28695614	GG	AA	1946890407
SNP_P4_97080_28700544	NC_021166.1	Ca_kabuli_chr07	28700544	TT	AA	1946890409
SNP_P4_97081_28702221	NC_021166.1	Ca_kabuli_chr07	28702221	GG	AA	1946890411

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_97085_28705776	NC_021166.1	Ca_kabuli_chr07	28705776	AA	GG	1946890417
SNP_P4_97086_28705945	NC_021166.1	Ca_kabuli_chr07	28705945	TT	CC	1946890419
SNP_P4_97088_28707131	NC_021166.1	Ca_kabuli_chr07	28707131	CC	TT	1946890421
SNP_P4_97089_28707198	NC_021166.1	Ca_kabuli_chr07	28707198	CC	AA	1946890423
SNP_P4_97091_28707268	NC_021166.1	Ca_kabuli_chr07	28707268	GG	AA	1946890425
SNP_P4_97092_28707394	NC_021166.1	Ca_kabuli_chr07	28707394	TT	CC	1946890427
SNP_P4_97094_28707467	NC_021166.1	Ca_kabuli_chr07	28707467	AA	GG	1946890429
SNP_P4_97095_28707595	NC_021166.1	Ca_kabuli_chr07	28707595	CC	TT	1946890431
SNP_P4_97096_28707603	NC_021166.1	Ca_kabuli_chr07	28707603	GG	CC	1946890434
SNP_P4_97097_28707652	NC_021166.1	Ca_kabuli_chr07	28707652	GG	AA	1946890436
SNP_P4_97098_28707905	NC_021166.1	Ca_kabuli_chr07	28707905	GG	CC	1946890438
SNP_P4_97099_28708008	NC_021166.1	Ca_kabuli_chr07	28708008	GG	CC	1946890440
SNP_P4_97100_28875858	NC_021166.1	Ca_kabuli_chr07	28875858	TT	AA	1946890442
SNP_P4_97101_28875900	NC_021166.1	Ca_kabuli_chr07	28875900	TT	CC	1946890444
SNP_P4_97102_28876231	NC_021166.1	Ca_kabuli_chr07	28876231	CC	AA	1946890446
SNP_P4_97103_28880572	NC_021166.1	Ca_kabuli_chr07	28880572	TT	CC	1946890448
SNP_P4_97105_28881837	NC_021166.1	Ca_kabuli_chr07	28881837	AA	GG	1946890451
SNP_P4_97106_28888169	NC_021166.1	Ca_kabuli_chr07	28888169	GG	AA	1946890453
SNP_P4_97107_28892076	NC_021166.1	Ca_kabuli_chr07	28892076	GG	CC	1946890455
SNP_P4_97108_28892190	NC_021166.1	Ca_kabuli_chr07	28892190	CC	AA	1946890457
SNP_P4_97109_28892242	NC_021166.1	Ca_kabuli_chr07	28892242	GG	AA	1946890458
SNP_P4_97110_28892250	NC_021166.1	Ca_kabuli_chr07	28892250	AA	CC	1946890459
SNP_P4_97111_28892328	NC_021166.1	Ca_kabuli_chr07	28892328	GG	TT	1946890460
SNP_P4_97112_28909177	NC_021166.1	Ca_kabuli_chr07	28909177	CC	TT	1946890461
SNP_P4_97113_28909440	NC_021166.1	Ca_kabuli_chr07	28909440	AA	GG	1946890463
SNP_P4_97115_28957010	NC_021166.1	Ca_kabuli_chr07	28957010	AA	TT	1946890465
SNP_P4_97116_28965744	NC_021166.1	Ca_kabuli_chr07	28965744	AA	CC	1946890467
SNP_P4_97117_28990874	NC_021166.1	Ca_kabuli_chr07	28990874	CC	AA	1946890470
SNP_P4_97118_28995804	NC_021166.1	Ca_kabuli_chr07	28995804	TT	CC	1946890472
SNP_P4_97121_29038405	NC_021166.1	Ca_kabuli_chr07	29038405	AA	TT	1946890474
SNP_P4_97122_29089133	NC_021166.1	Ca_kabuli_chr07	29089133	CC	TT	1946890476
SNP_P4_97123_29089146	NC_021166.1	Ca_kabuli_chr07	29089146	AA	GG	1946890478
SNP_P4_97124_29089147	NC_021166.1	Ca_kabuli_chr07	29089147	TT	AA	1946890480
SNP_P4_97125_29161206	NC_021166.1	Ca_kabuli_chr07	29161206	TT	GG	1946890482
SNP_P4_97126_29161557	NC_021166.1	Ca_kabuli_chr07	29161557	AA	GG	1946890484
SNP_P4_97127_29163506	NC_021166.1	Ca_kabuli_chr07	29163506	CC	AA	1946890486
SNP_P4_97129_29175468	NC_021166.1	Ca_kabuli_chr07	29175468	AA	TT	1946890488
SNP_P4_97130_29196781	NC_021166.1	Ca_kabuli_chr07	29196781	CC	TT	1946890490
SNP_P4_97131_29211452	NC_021166.1	Ca_kabuli_chr07	29211452	TT	AA	1946890493
SNP_P4_97132_29212023	NC_021166.1	Ca_kabuli_chr07	29212023	AA	TT	1946890495

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_97133_29212025	NC_021166.1	Ca_kabuli_chr07	29212025	CC	AA	1946890497
SNP_P4_97134_29212026	NC_021166.1	Ca_kabuli_chr07	29212026	AA	TT	1946890499
SNP_P4_97135_29212027	NC_021166.1	Ca_kabuli_chr07	29212027	GG	TT	1946890501
SNP_P4_97136_29212028	NC_021166.1	Ca_kabuli_chr07	29212028	GG	CC	1946890503
SNP_P4_97137_29234560	NC_021166.1	Ca_kabuli_chr07	29234560	CC	TT	1946890505
SNP_P4_97138_29240077	NC_021166.1	Ca_kabuli_chr07	29240077	CC	AA	1946890507
SNP_P4_97140_29252496	NC_021166.1	Ca_kabuli_chr07	29252496	GG	AA	1946890509
SNP_P4_97141_29294255	NC_021166.1	Ca_kabuli_chr07	29294255	AA	TT	1946890511
SNP_P4_97142_29307574	NC_021166.1	Ca_kabuli_chr07	29307574	AA	GG	1946890513
SNP_P4_97143_29309259	NC_021166.1	Ca_kabuli_chr07	29309259	AA	GG	1946890516
SNP_P4_97146_29327180	NC_021166.1	Ca_kabuli_chr07	29327180	CC	TT	1946890518
SNP_P4_97148_29360236	NC_021166.1	Ca_kabuli_chr07	29360236	CC	TT	1946890520
SNP_P4_97149_29384107	NC_021166.1	Ca_kabuli_chr07	29384107	GG	AA	1946890522
SNP_P4_97150_29391177	NC_021166.1	Ca_kabuli_chr07	29391177	TT	AA	1946890524
SNP_P4_97151_29395476	NC_021166.1	Ca_kabuli_chr07	29395476	TT	GG	1946890526
SNP_P4_97152_29399219	NC_021166.1	Ca_kabuli_chr07	29399219	TT	AA	1946890528
SNP_P4_97153_29416172	NC_021166.1	Ca_kabuli_chr07	29416172	AA	TT	1946890530
SNP_P4_97155_29416464	NC_021166.1	Ca_kabuli_chr07	29416464	AA	GG	1946890532
SNP_P4_97157_29416577	NC_021166.1	Ca_kabuli_chr07	29416577	TT	CC	1946890534
SNP_P4_97158_29416714	NC_021166.1	Ca_kabuli_chr07	29416714	AA	GG	1946890536
SNP_P4_97160_29416892	NC_021166.1	Ca_kabuli_chr07	29416892	GG	AA	1946890538
SNP_P4_97161_29416893	NC_021166.1	Ca_kabuli_chr07	29416893	GG	AA	1946890540
SNP_P4_97162_29417586	NC_021166.1	Ca_kabuli_chr07	29417586	TT	AA	1946890542
SNP_P4_97163_29417645	NC_021166.1	Ca_kabuli_chr07	29417645	AA	GG	1946890544
SNP_P4_97164_29417693	NC_021166.1	Ca_kabuli_chr07	29417693	GG	CC	1946890546
SNP_P4_97165_29417733	NC_021166.1	Ca_kabuli_chr07	29417733	TT	CC	1946890548
SNP_P4_97166_29417759	NC_021166.1	Ca_kabuli_chr07	29417759	AA	CC	1946890550
SNP_P4_97168_29417970	NC_021166.1	Ca_kabuli_chr07	29417970	GG	AA	1946890552
SNP_P4_97169_29417985	NC_021166.1	Ca_kabuli_chr07	29417985	AA	GG	1946890554
SNP_P4_97171_29419100	NC_021166.1	Ca_kabuli_chr07	29419100	GG	CC	1946890556
SNP_P4_97172_29419846	NC_021166.1	Ca_kabuli_chr07	29419846	GG	TT	1946890558
SNP_P4_97173_29428389	NC_021166.1	Ca_kabuli_chr07	29428389	GG	AA	1946890560
SNP_P4_97174_29433171	NC_021166.1	Ca_kabuli_chr07	29433171	GG	CC	1946890562
SNP_P4_97175_29433179	NC_021166.1	Ca_kabuli_chr07	29433179	CC	TT	1946890565
SNP_P4_97176_29433206	NC_021166.1	Ca_kabuli_chr07	29433206	TT	CC	1946890567
SNP_P4_97177_29433295	NC_021166.1	Ca_kabuli_chr07	29433295	CC	AA	1946890569
SNP_P4_97178_29433354	NC_021166.1	Ca_kabuli_chr07	29433354	TT	CC	1946890571
SNP_P4_97179_29433372	NC_021166.1	Ca_kabuli_chr07	29433372	CC	TT	1946890573
SNP_P4_97180_29433448	NC_021166.1	Ca_kabuli_chr07	29433448	TT	AA	1946890575
SNP_P4_97182_29433644	NC_021166.1	Ca_kabuli_chr07	29433644	CC	GG	1946890577
SNP_P4_97183_29433738	NC_021166.1	Ca_kabuli_chr07	29433738	CC	TT	1946890579
SNP_P4_97184_29436314	NC_021166.1	Ca_kabuli_chr07	29436314	TT	CC	1946890581

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_97186_29436359	NC_021166.1	Ca_kabuli_chr07	29436359	TT	CC	1946890585
SNP_P4_97187_29436388	NC_021166.1	Ca_kabuli_chr07	29436388	CC	TT	1946890588
SNP_P4_97188_29436396	NC_021166.1	Ca_kabuli_chr07	29436396	TT	GG	1946890590
SNP_P4_97189_29436397	NC_021166.1	Ca_kabuli_chr07	29436397	TT	GG	1946890592
SNP_P4_97190_29439185	NC_021166.1	Ca_kabuli_chr07	29439185	AA	TT	1946890594
SNP_P4_97193_29461297	NC_021166.1	Ca_kabuli_chr07	29461297	AA	CC	1946890596
SNP_P4_97194_29461319	NC_021166.1	Ca_kabuli_chr07	29461319	TT	AA	1946890598
SNP_P4_97195_29461326	NC_021166.1	Ca_kabuli_chr07	29461326	CC	TT	1946890600
SNP_P4_97197_29504802	NC_021166.1	Ca_kabuli_chr07	29504802	TT	CC	1946890602
SNP_P4_97198_29504812	NC_021166.1	Ca_kabuli_chr07	29504812	CC	TT	1946890604
SNP_P4_97199_29504824	NC_021166.1	Ca_kabuli_chr07	29504824	TT	CC	1946890606
SNP_P4_97200_29504829	NC_021166.1	Ca_kabuli_chr07	29504829	AA	GG	1946890608
SNP_P4_97201_29504889	NC_021166.1	Ca_kabuli_chr07	29504889	TT	AA	1946890610
SNP_P4_97202_29504966	NC_021166.1	Ca_kabuli_chr07	29504966	CC	GG	1946890612
SNP_P4_97203_29504993	NC_021166.1	Ca_kabuli_chr07	29504993	GG	AA	1946890615
SNP_P4_97204_29505110	NC_021166.1	Ca_kabuli_chr07	29505110	AA	GG	1946890617
SNP_P4_97205_29511138	NC_021166.1	Ca_kabuli_chr07	29511138	AA	CC	1946890619
SNP_P4_97206_29534169	NC_021166.1	Ca_kabuli_chr07	29534169	TT	AA	1946890621
SNP_P4_97208_29540787	NC_021166.1	Ca_kabuli_chr07	29540787	CC	AA	1946890623
SNP_P4_97209_29547429	NC_021166.1	Ca_kabuli_chr07	29547429	CC	TT	1946890625
SNP_P4_97210_29547769	NC_021166.1	Ca_kabuli_chr07	29547769	TT	AA	1946890627
SNP_P4_97211_29547840	NC_021166.1	Ca_kabuli_chr07	29547840	GG	AA	1946890629
SNP_P4_97212_29548067	NC_021166.1	Ca_kabuli_chr07	29548067	AA	GG	1946890631
SNP_P4_97213_29548094	NC_021166.1	Ca_kabuli_chr07	29548094	AA	CC	1946890633
SNP_P4_97214_29548434	NC_021166.1	Ca_kabuli_chr07	29548434	CC	TT	1946890635
SNP_P4_97215_29553040	NC_021166.1	Ca_kabuli_chr07	29553040	CC	TT	1946890637
SNP_P4_97217_29593086	NC_021166.1	Ca_kabuli_chr07	29593086	GG	AA	1946890639
SNP_P4_97218_29605369	NC_021166.1	Ca_kabuli_chr07	29605369	AA	TT	1946890641
SNP_P4_97219_29605734	NC_021166.1	Ca_kabuli_chr07	29605734	TT	AA	1946890643
SNP_P4_97220_29610046	NC_021166.1	Ca_kabuli_chr07	29610046	AA	GG	1946890645
SNP_P4_97223_29631709	NC_021166.1	Ca_kabuli_chr07	29631709	CC	TT	1946890647
SNP_P4_97224_29656004	NC_021166.1	Ca_kabuli_chr07	29656004	CC	AA	1946890649
SNP_P4_97227_29674797	NC_021166.1	Ca_kabuli_chr07	29674797	GG	AA	1946890651
SNP_P4_97228_29676413	NC_021166.1	Ca_kabuli_chr07	29676413	CC	TT	1946890653
SNP_P4_97229_29695025	NC_021166.1	Ca_kabuli_chr07	29695025	TT	CC	1946890655
SNP_P4_97230_29743462	NC_021166.1	Ca_kabuli_chr07	29743462	GG	AA	1946890657
SNP_P4_97232_29753839	NC_021166.1	Ca_kabuli_chr07	29753839	TT	CC	1946890659
SNP_P4_97233_29763495	NC_021166.1	Ca_kabuli_chr07	29763495	GG	AA	1946890661
SNP_P4_97236_29787478	NC_021166.1	Ca_kabuli_chr07	29787478	AA	GG	1946890663
SNP_P4_97237_29790248	NC_021166.1	Ca_kabuli_chr07	29790248	AA	TT	1946890665
SNP_P4_97238_29810276	NC_021166.1	Ca_kabuli_chr07	29810276	AA	GG	1946890667

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_97241_29895501	NC_021166.1	Ca_kabuli_chr07	29895501	CC	TT	1946890671
SNP_P4_97242_29902971	NC_021166.1	Ca_kabuli_chr07	29902971	AA	GG	1946890673
SNP_P4_97243_29908766	NC_021166.1	Ca_kabuli_chr07	29908766	GG	AA	1946890675
SNP_P4_97244_29909222	NC_021166.1	Ca_kabuli_chr07	29909222	TT	GG	1946890677
SNP_P4_97245_29910689	NC_021166.1	Ca_kabuli_chr07	29910689	GG	AA	1946890680
SNP_P4_97246_29910933	NC_021166.1	Ca_kabuli_chr07	29910933	GG	AA	1946890682
SNP_P4_97247_29924521	NC_021166.1	Ca_kabuli_chr07	29924521	GG	AA	1946890684
SNP_P4_97248_29924747	NC_021166.1	Ca_kabuli_chr07	29924747	GG	AA	1946890686
SNP_P4_97249_29925020	NC_021166.1	Ca_kabuli_chr07	29925020	CC	AA	1946890688
SNP_P4_97250_29925322	NC_021166.1	Ca_kabuli_chr07	29925322	TT	CC	1946890690
SNP_P4_97251_29925325	NC_021166.1	Ca_kabuli_chr07	29925325	TT	CC	1946890692
SNP_P4_97252_29925368	NC_021166.1	Ca_kabuli_chr07	29925368	AA	TT	1946890694
SNP_P4_97253_29929735	NC_021166.1	Ca_kabuli_chr07	29929735	CC	GG	1946890696
SNP_P4_97254_29929745	NC_021166.1	Ca_kabuli_chr07	29929745	CC	AA	1946890698
SNP_P4_97255_29929783	NC_021166.1	Ca_kabuli_chr07	29929783	GG	AA	1946890700
SNP_P4_97256_29930053	NC_021166.1	Ca_kabuli_chr07	29930053	GG	AA	1946890702
SNP_P4_97257_29935583	NC_021166.1	Ca_kabuli_chr07	29935583	AA	GG	1946890704
SNP_P4_97259_29940193	NC_021166.1	Ca_kabuli_chr07	29940193	TT	CC	1946890706
SNP_P4_97260_29941473	NC_021166.1	Ca_kabuli_chr07	29941473	AA	GG	1946890708
SNP_P4_97261_29943162	NC_021166.1	Ca_kabuli_chr07	29943162	CC	TT	1946890710
SNP_P4_97264_29995425	NC_021166.1	Ca_kabuli_chr07	29995425	AA	GG	1946890712
SNP_P4_97265_29996304	NC_021166.1	Ca_kabuli_chr07	29996304	AA	CC	1946890714
SNP_P4_97266_29996331	NC_021166.1	Ca_kabuli_chr07	29996331	CC	TT	1946890716
SNP_P4_97267_29997771	NC_021166.1	Ca_kabuli_chr07	29997771	AA	TT	1946890718
SNP_P4_97268_29997911	NC_021166.1	Ca_kabuli_chr07	29997911	TT	CC	1946890720
SNP_P4_97269_29997912	NC_021166.1	Ca_kabuli_chr07	29997912	CC	AA	1946890722
SNP_P4_97270_29999987	NC_021166.1	Ca_kabuli_chr07	29999987	AA	GG	1946890725
SNP_P4_97271_30000041	NC_021166.1	Ca_kabuli_chr07	30000041	CC	AA	1946890727
SNP_P4_97272_30000045	NC_021166.1	Ca_kabuli_chr07	30000045	GG	AA	1946890729
SNP_P4_97273_30000048	NC_021166.1	Ca_kabuli_chr07	30000048	TT	AA	1946890731
SNP_P4_97274_30000050	NC_021166.1	Ca_kabuli_chr07	30000050	AA	TT	1946890733
SNP_P4_97275_30000311	NC_021166.1	Ca_kabuli_chr07	30000311	AA	GG	1946890735
SNP_P4_97276_30000601	NC_021166.1	Ca_kabuli_chr07	30000601	TT	AA	1946890737
SNP_P4_97277_30000681	NC_021166.1	Ca_kabuli_chr07	30000681	TT	GG	1946890739
SNP_P4_97278_30000719	NC_021166.1	Ca_kabuli_chr07	30000719	AA	GG	1946890741
SNP_P4_97279_30000728	NC_021166.1	Ca_kabuli_chr07	30000728	CC	TT	1946890744
SNP_P4_97280_30001696	NC_021166.1	Ca_kabuli_chr07	30001696	CC	AA	1946890746
SNP_P4_97281_30002778	NC_021166.1	Ca_kabuli_chr07	30002778	AA	CC	1946890748
SNP_P4_97282_30003194	NC_021166.1	Ca_kabuli_chr07	30003194	TT	CC	1946890750
SNP_P4_97283_30003722	NC_021166.1	Ca_kabuli_chr07	30003722	TT	CC	1946890752
SNP_P4_97284_30003732	NC_021166.1	Ca_kabuli_chr07	30003732	GG	AA	1946890754

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_97287_30003999	NC_021166.1	Ca_kabuli_chr07	30003999	TT	CC	1946890758
SNP_P4_97288_30004141	NC_021166.1	Ca_kabuli_chr07	30004141	AA	GG	1946890760
SNP_P4_97289_30004173	NC_021166.1	Ca_kabuli_chr07	30004173	TT	CC	1946890762
SNP_P4_97290_30004213	NC_021166.1	Ca_kabuli_chr07	30004213	GG	AA	1946890764
SNP_P4_97291_30008079	NC_021166.1	Ca_kabuli_chr07	30008079	CC	GG	1946890766
SNP_P4_97292_30008139	NC_021166.1	Ca_kabuli_chr07	30008139	AA	GG	1946890768
SNP_P4_97293_30008216	NC_021166.1	Ca_kabuli_chr07	30008216	CC	TT	1946890771
SNP_P4_97294_30008357	NC_021166.1	Ca_kabuli_chr07	30008357	CC	TT	1946890773
SNP_P4_97295_30008763	NC_021166.1	Ca_kabuli_chr07	30008763	TT	CC	1946890775
SNP_P4_97296_30010690	NC_021166.1	Ca_kabuli_chr07	30010690	CC	TT	1946890777
SNP_P4_97297_30010774	NC_021166.1	Ca_kabuli_chr07	30010774	AA	GG	1946890779
SNP_P4_97299_30011236	NC_021166.1	Ca_kabuli_chr07	30011236	TT	GG	1946890781
SNP_P4_97300_30011269	NC_021166.1	Ca_kabuli_chr07	30011269	CC	TT	1946890783
SNP_P4_97301_30012213	NC_021166.1	Ca_kabuli_chr07	30012213	GG	AA	1946890785
SNP_P4_97302_30012672	NC_021166.1	Ca_kabuli_chr07	30012672	GG	AA	1946890787
SNP_P4_97303_30016477	NC_021166.1	Ca_kabuli_chr07	30016477	CC	GG	1946890789
SNP_P4_97306_30017515	NC_021166.1	Ca_kabuli_chr07	30017515	GG	AA	1946890791
SNP_P4_97307_30017590	NC_021166.1	Ca_kabuli_chr07	30017590	GG	CC	1946890793
SNP_P4_97308_30017601	NC_021166.1	Ca_kabuli_chr07	30017601	AA	GG	1946890796
SNP_P4_97309_30018189	NC_021166.1	Ca_kabuli_chr07	30018189	CC	TT	1946890798
SNP_P4_97310_30018279	NC_021166.1	Ca_kabuli_chr07	30018279	AA	GG	1946890800
SNP_P4_97311_30018283	NC_021166.1	Ca_kabuli_chr07	30018283	AA	TT	1946890802
SNP_P4_97312_30018509	NC_021166.1	Ca_kabuli_chr07	30018509	AA	GG	1946890804
SNP_P4_97313_30020448	NC_021166.1	Ca_kabuli_chr07	30020448	AA	TT	1946890806
SNP_P4_97314_30020449	NC_021166.1	Ca_kabuli_chr07	30020449	AA	TT	1946890808
SNP_P4_97315_30020450	NC_021166.1	Ca_kabuli_chr07	30020450	GG	TT	1946890810
SNP_P4_97316_30020478	NC_021166.1	Ca_kabuli_chr07	30020478	GG	AA	1946890812
SNP_P4_97317_30020515	NC_021166.1	Ca_kabuli_chr07	30020515	AA	GG	1946890814
SNP_P4_97318_30020726	NC_021166.1	Ca_kabuli_chr07	30020726	CC	GG	1946890816
SNP_P4_97319_30020845	NC_021166.1	Ca_kabuli_chr07	30020845	CC	GG	1946890818
SNP_P4_97320_30021013	NC_021166.1	Ca_kabuli_chr07	30021013	AA	GG	1946890821
SNP_P4_97321_30021039	NC_021166.1	Ca_kabuli_chr07	30021039	GG	AA	1946890823
SNP_P4_97323_30021382	NC_021166.1	Ca_kabuli_chr07	30021382	GG	AA	1946890825
SNP_P4_97324_30024711	NC_021166.1	Ca_kabuli_chr07	30024711	GG	TT	1946890827
SNP_P4_97325_30026017	NC_021166.1	Ca_kabuli_chr07	30026017	TT	CC	1946890829
SNP_P4_97326_30026039	NC_021166.1	Ca_kabuli_chr07	30026039	GG	TT	1946890831
SNP_P4_97327_30027820	NC_021166.1	Ca_kabuli_chr07	30027820	GG	CC	1946890833
SNP_P4_97328_30027833	NC_021166.1	Ca_kabuli_chr07	30027833	GG	CC	1946890835
SNP_P4_97329_30028101	NC_021166.1	Ca_kabuli_chr07	30028101	GG	AA	1946890837
SNP_P4_97330_30028345	NC_021166.1	Ca_kabuli_chr07	30028345	AA	TT	1946890839
SNP_P4_97331_30028347	NC_021166.1	Ca_kabuli_chr07	30028347	AA	CC	1946890841

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_97333_30028399	NC_021166.1	Ca_kabuli_chr07	30028399	CC	AA	1946890845
SNP_P4_97334_30028654	NC_021166.1	Ca_kabuli_chr07	30028654	CC	TT	1946890847
SNP_P4_97335_30028681	NC_021166.1	Ca_kabuli_chr07	30028681	CC	TT	1946890849
SNP_P4_97336_30028706	NC_021166.1	Ca_kabuli_chr07	30028706	CC	TT	1946890851
SNP_P4_97337_30029296	NC_021166.1	Ca_kabuli_chr07	30029296	AA	TT	1946890853
SNP_P4_97338_30029313	NC_021166.1	Ca_kabuli_chr07	30029313	AA	GG	1946890855
SNP_P4_97339_30029525	NC_021166.1	Ca_kabuli_chr07	30029525	TT	AA	1946890857
SNP_P4_97340_30029543	NC_021166.1	Ca_kabuli_chr07	30029543	TT	AA	1946890859
SNP_P4_97341_30029590	NC_021166.1	Ca_kabuli_chr07	30029590	TT	CC	1946890861
SNP_P4_97342_30029635	NC_021166.1	Ca_kabuli_chr07	30029635	TT	AA	1946890863
SNP_P4_97343_30029684	NC_021166.1	Ca_kabuli_chr07	30029684	TT	AA	1946890865
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SNP_P4_97346_30034926	NC_021166.1	Ca_kabuli_chr07	30034926	AA	GG	1946890869
SNP_P4_97347_30036222	NC_021166.1	Ca_kabuli_chr07	30036222	AA	GG	1946890871
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SNP_P4_97349_30036695	NC_021166.1	Ca_kabuli_chr07	30036695	GG	AA	1946890875
SNP_P4_97351_30037585	NC_021166.1	Ca_kabuli_chr07	30037585	CC	TT	1946890877
SNP_P4_97352_30037758	NC_021166.1	Ca_kabuli_chr07	30037758	GG	CC	1946890879
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SNP_P4_97354_30040274	NC_021166.1	Ca_kabuli_chr07	30040274	GG	TT	1946890884
SNP_P4_97355_30040303	NC_021166.1	Ca_kabuli_chr07	30040303	GG	AA	1946890886
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SNP_P4_97359_30042335	NC_021166.1	Ca_kabuli_chr07	30042335	CC	GG	1946890894
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SNP_P4_97361_30042553	NC_021166.1	Ca_kabuli_chr07	30042553	AA	GG	1946890898
SNP_P4_97362_30042569	NC_021166.1	Ca_kabuli_chr07	30042569	GG	CC	1946890900
SNP_P4_97363_30042728	NC_021166.1	Ca_kabuli_chr07	30042728	TT	CC	1946890903
SNP_P4_97364_30042875	NC_021166.1	Ca_kabuli_chr07	30042875	TT	CC	1946890905
SNP_P4_97365_30042891	NC_021166.1	Ca_kabuli_chr07	30042891	AA	GG	1946890907
SNP_P4_97366_30043068	NC_021166.1	Ca_kabuli_chr07	30043068	CC	TT	1946890909
SNP_P4_97367_30043099	NC_021166.1	Ca_kabuli_chr07	30043099	CC	TT	1946890911
SNP_P4_97368_30043108	NC_021166.1	Ca_kabuli_chr07	30043108	AA	CC	1946890913
SNP_P4_97369_30043112	NC_021166.1	Ca_kabuli_chr07	30043112	AA	GG	1946890915
SNP_P4_97370_30043329	NC_021166.1	Ca_kabuli_chr07	30043329	AA	GG	1946890917
SNP_P4_97371_30043362	NC_021166.1	Ca_kabuli_chr07	30043362	AA	GG	1946890919
SNP_P4_97372_30043390	NC_021166.1	Ca_kabuli_chr07	30043390	CC	TT	1946890921
SNP_P4_97373_30043407	NC_021166.1	Ca_kabuli_chr07	30043407	AA	CC	1946890923
SNP_P4_97374_30043435	NC_021166.1	Ca_kabuli_chr07	30043435	TT	AA	1946890925
SNP_P4_97375_30043712	NC_021166.1	Ca_kabuli_chr07	30043712	AA	GG	1946890927

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_97377_30044750	NC_021166.1	Ca_kabuli_chr07	30044750	GG	AA	1946890931
SNP_P4_97378_30044800	NC_021166.1	Ca_kabuli_chr07	30044800	AA	GG	1946890933
SNP_P4_97379_30046054	NC_021166.1	Ca_kabuli_chr07	30046054	GG	AA	1946890935
SNP_P4_97380_30046107	NC_021166.1	Ca_kabuli_chr07	30046107	GG	AA	1946890937
SNP_P4_97381_30046414	NC_021166.1	Ca_kabuli_chr07	30046414	TT	CC	1946890939
SNP_P4_97382_30046416	NC_021166.1	Ca_kabuli_chr07	30046416	AA	CC	1946890941
SNP_P4_97383_30046524	NC_021166.1	Ca_kabuli_chr07	30046524	AA	CC	1946890943
SNP_P4_97384_30046700	NC_021166.1	Ca_kabuli_chr07	30046700	CC	TT	1946890946
SNP_P4_97385_30046723	NC_021166.1	Ca_kabuli_chr07	30046723	CC	GG	1946890948
SNP_P4_97386_30047816	NC_021166.1	Ca_kabuli_chr07	30047816	GG	AA	1946890950
SNP_P4_97387_30047836	NC_021166.1	Ca_kabuli_chr07	30047836	TT	CC	1946890952
SNP_P4_97388_30048811	NC_021166.1	Ca_kabuli_chr07	30048811	CC	TT	1946890954
SNP_P4_97389_30048827	NC_021166.1	Ca_kabuli_chr07	30048827	CC	AA	1946890956
SNP_P4_97390_30048852	NC_021166.1	Ca_kabuli_chr07	30048852	CC	TT	1946890958
SNP_P4_97391_30048871	NC_021166.1	Ca_kabuli_chr07	30048871	AA	GG	1946890960
SNP_P4_97392_30048902	NC_021166.1	Ca_kabuli_chr07	30048902	CC	AA	1946890962
SNP_P4_97393_30048906	NC_021166.1	Ca_kabuli_chr07	30048906	AA	GG	1946890964
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SNP_P4_97395_30052513	NC_021166.1	Ca_kabuli_chr07	30052513	TT	CC	1946890969
SNP_P4_97396_30053380	NC_021166.1	Ca_kabuli_chr07	30053380	TT	GG	1946890971
SNP_P4_97398_30053703	NC_021166.1	Ca_kabuli_chr07	30053703	AA	CC	1946890973
SNP_P4_97399_30054006	NC_021166.1	Ca_kabuli_chr07	30054006	GG	AA	1946890975
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SNP_P4_97402_30055301	NC_021166.1	Ca_kabuli_chr07	30055301	GG	AA	1946890982
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SNP_P4_97404_30057816	NC_021166.1	Ca_kabuli_chr07	30057816	AA	GG	1946890986
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SNP_P4_97407_30059507	NC_021166.1	Ca_kabuli_chr07	30059507	CC	TT	1946890990
SNP_P4_97408_30060299	NC_021166.1	Ca_kabuli_chr07	30060299	AA	CC	1946890992
SNP_P4_97409_30060602	NC_021166.1	Ca_kabuli_chr07	30060602	AA	TT	1946890994
SNP_P4_97410_30060653	NC_021166.1	Ca_kabuli_chr07	30060653	TT	CC	1946890996
SNP_P4_97411_30060731	NC_021166.1	Ca_kabuli_chr07	30060731	CC	GG	1946890998
SNP_P4_97412_30060745	NC_021166.1	Ca_kabuli_chr07	30060745	TT	GG	1946891001
SNP_P4_97413_30060905	NC_021166.1	Ca_kabuli_chr07	30060905	GG	AA	1946891003
SNP_P4_97414_30062171	NC_021166.1	Ca_kabuli_chr07	30062171	CC	TT	1946891005
SNP_P4_97415_30062184	NC_021166.1	Ca_kabuli_chr07	30062184	GG	AA	1946891007
SNP_P4_97416_30062217	NC_021166.1	Ca_kabuli_chr07	30062217	TT	CC	1946891009
SNP_P4_97417_30062235	NC_021166.1	Ca_kabuli_chr07	30062235	GG	AA	1946891011
SNP_P4_97418_30063097	NC_021166.1	Ca_kabuli_chr07	30063097	TT	CC	1946891013
SNP_P4_97419_30063485	NC_021166.1	Ca_kabuli_chr07	30063485	TT	GG	1946891015

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_97421_30068434	NC_021166.1	Ca_kabuli_chr07	30068434	CC	AA	1946891020
SNP_P4_97422_30068504	NC_021166.1	Ca_kabuli_chr07	30068504	CC	AA	1946891022
SNP_P4_97423_30069030	NC_021166.1	Ca_kabuli_chr07	30069030	GG	CC	1946891024
SNP_P4_97424_30069234	NC_021166.1	Ca_kabuli_chr07	30069234	AA	CC	1946891026
SNP_P4_97426_30069590	NC_021166.1	Ca_kabuli_chr07	30069590	AA	GG	1946891029
SNP_P4_97427_30069628	NC_021166.1	Ca_kabuli_chr07	30069628	AA	CC	1946891031
SNP_P4_97428_30069631	NC_021166.1	Ca_kabuli_chr07	30069631	AA	CC	1946891033
SNP_P4_97429_30069668	NC_021166.1	Ca_kabuli_chr07	30069668	CC	AA	1946891035
SNP_P4_97430_30069705	NC_021166.1	Ca_kabuli_chr07	30069705	AA	GG	1946891037
SNP_P4_97431_30069850	NC_021166.1	Ca_kabuli_chr07	30069850	TT	AA	1946891039
SNP_P4_97432_30069857	NC_021166.1	Ca_kabuli_chr07	30069857	GG	TT	1946891041
SNP_P4_97433_30069902	NC_021166.1	Ca_kabuli_chr07	30069902	TT	CC	1946891044
SNP_P4_97434_30070146	NC_021166.1	Ca_kabuli_chr07	30070146	GG	TT	1946891046
SNP_P4_97435_30070183	NC_021166.1	Ca_kabuli_chr07	30070183	CC	TT	1946891048
SNP_P4_97436_30070404	NC_021166.1	Ca_kabuli_chr07	30070404	TT	AA	1946891050
SNP_P4_97437_30070406	NC_021166.1	Ca_kabuli_chr07	30070406	TT	AA	1946891052
SNP_P4_97438_30070413	NC_021166.1	Ca_kabuli_chr07	30070413	CC	TT	1946891055
SNP_P4_97439_30070415	NC_021166.1	Ca_kabuli_chr07	30070415	AA	CC	1946891057
SNP_P4_97440_30070458	NC_021166.1	Ca_kabuli_chr07	30070458	GG	AA	1946891059
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SNP_P4_97442_30070501	NC_021166.1	Ca_kabuli_chr07	30070501	TT	AA	1946891063
SNP_P4_97443_30070531	NC_021166.1	Ca_kabuli_chr07	30070531	TT	AA	1946891065
SNP_P4_97444_30072035	NC_021166.1	Ca_kabuli_chr07	30072035	GG	TT	1946891067
SNP_P4_97445_30072538	NC_021166.1	Ca_kabuli_chr07	30072538	GG	AA	1946891069
SNP_P4_97446_30072939	NC_021166.1	Ca_kabuli_chr07	30072939	AA	GG	1946891071
SNP_P4_97447_30072942	NC_021166.1	Ca_kabuli_chr07	30072942	CC	AA	1946891074
SNP_P4_97448_30072989	NC_021166.1	Ca_kabuli_chr07	30072989	GG	AA	1946891076
SNP_P4_97449_30074195	NC_021166.1	Ca_kabuli_chr07	30074195	AA	GG	1946891078
SNP_P4_97450_30075744	NC_021166.1	Ca_kabuli_chr07	30075744	TT	CC	1946891080
SNP_P4_97451_30075754	NC_021166.1	Ca_kabuli_chr07	30075754	GG	AA	1946891082
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SNP_P4_97453_30077383	NC_021166.1	Ca_kabuli_chr07	30077383	TT	CC	1946891086
SNP_P4_97454_30078646	NC_021166.1	Ca_kabuli_chr07	30078646	TT	CC	1946891088
SNP_P4_97457_30081565	NC_021166.1	Ca_kabuli_chr07	30081565	CC	TT	1946891090
SNP_P4_97458_30082138	NC_021166.1	Ca_kabuli_chr07	30082138	AA	GG	1946891092
SNP_P4_97459_30083026	NC_021166.1	Ca_kabuli_chr07	30083026	GG	AA	1946891094
SNP_P4_97460_30083035	NC_021166.1	Ca_kabuli_chr07	30083035	TT	AA	1946891096
SNP_P4_97461_30083526	NC_021166.1	Ca_kabuli_chr07	30083526	TT	CC	1946891099
SNP_P4_97462_30083532	NC_021166.1	Ca_kabuli_chr07	30083532	AA	GG	1946891101
SNP_P4_97463_30083550	NC_021166.1	Ca_kabuli_chr07	30083550	TT	AA	1946891103
SNP_P4_97464_30087419	NC_021166.1	Ca_kabuli_chr07	30087419	TT	CC	1946891105

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_97467_30089328	NC_021166.1	Ca_kabuli_chr07	30089328	GG	AA	1946891111
SNP_P4_97468_30089332	NC_021166.1	Ca_kabuli_chr07	30089332	CC	TT	1946891113
SNP_P4_97469_30089514	NC_021166.1	Ca_kabuli_chr07	30089514	AA	GG	1946891116
SNP_P4_97470_30089515	NC_021166.1	Ca_kabuli_chr07	30089515	CC	GG	1946891118
SNP_P4_97471_30089579	NC_021166.1	Ca_kabuli_chr07	30089579	CC	TT	1946891120
SNP_P4_97472_30089624	NC_021166.1	Ca_kabuli_chr07	30089624	TT	CC	1946891122
SNP_P4_97473_30089654	NC_021166.1	Ca_kabuli_chr07	30089654	CC	AA	1946891124
SNP_P4_97474_30089676	NC_021166.1	Ca_kabuli_chr07	30089676	GG	AA	1946891127
SNP_P4_97475_30089704	NC_021166.1	Ca_kabuli_chr07	30089704	CC	TT	1946891129
SNP_P4_97476_30089706	NC_021166.1	Ca_kabuli_chr07	30089706	GG	AA	1946891131
SNP_P4_97477_30089741	NC_021166.1	Ca_kabuli_chr07	30089741	GG	AA	1946891133
SNP_P4_97478_30089762	NC_021166.1	Ca_kabuli_chr07	30089762	GG	AA	1946891135
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SNP_P4_97480_30089869	NC_021166.1	Ca_kabuli_chr07	30089869	CC	TT	1946891139
SNP_P4_97481_30089890	NC_021166.1	Ca_kabuli_chr07	30089890	GG	AA	1946891141
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SNP_P4_97487_30090776	NC_021166.1	Ca_kabuli_chr07	30090776	AA	GG	1946891152
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SNP_P4_97494_30091022	NC_021166.1	Ca_kabuli_chr07	30091022	CC	AA	1946891164
SNP_P4_97495_30091074	NC_021166.1	Ca_kabuli_chr07	30091074	GG	AA	1946891166
SNP_P4_97496_30091083	NC_021166.1	Ca_kabuli_chr07	30091083	CC	TT	1946891168
SNP_P4_97497_30091118	NC_021166.1	Ca_kabuli_chr07	30091118	TT	AA	1946891170
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SNP_P4_97499_30091550	NC_021166.1	Ca_kabuli_chr07	30091550	TT	CC	1946891175
SNP_P4_97500_30091551	NC_021166.1	Ca_kabuli_chr07	30091551	GG	CC	1946891177
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SNP_P4_97502_30092786	NC_021166.1	Ca_kabuli_chr07	30092786	GG	AA	1946891181
SNP_P4_97504_30093206	NC_021166.1	Ca_kabuli_chr07	30093206	TT	CC	1946891183
SNP_P4_97505_30093230	NC_021166.1	Ca_kabuli_chr07	30093230	GG	CC	1946891185
SNP_P4_97506_30093270	NC_021166.1	Ca_kabuli_chr07	30093270	GG	AA	1946891187
SNP_P4_97507_30093438	NC_021166.1	Ca_kabuli_chr07	30093438	CC	TT	1946891189
SNP_P4_97508_30093499	NC_021166.1	Ca_kabuli_chr07	30093499	TT	GG	1946891191

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_97511_30095275	NC_021166.1	Ca_kabuli_chr07	30095275	AA	CC	1946891197
SNP_P4_97512_30095330	NC_021166.1	Ca_kabuli_chr07	30095330	TT	CC	1946891199
SNP_P4_97514_30097171	NC_021166.1	Ca_kabuli_chr07	30097171	CC	TT	1946891201
SNP_P4_97515_30097333	NC_021166.1	Ca_kabuli_chr07	30097333	GG	TT	1946891203
SNP_P4_97516_30097730	NC_021166.1	Ca_kabuli_chr07	30097730	CC	TT	1946891205
SNP_P4_97517_30098208	NC_021166.1	Ca_kabuli_chr07	30098208	CC	TT	1946891207
SNP_P4_97518_30098209	NC_021166.1	Ca_kabuli_chr07	30098209	TT	CC	1946891209
SNP_P4_97519_30098226	NC_021166.1	Ca_kabuli_chr07	30098226	CC	TT	1946891211
SNP_P4_97520_30098245	NC_021166.1	Ca_kabuli_chr07	30098245	AA	GG	1946891213
SNP_P4_97521_30098532	NC_021166.1	Ca_kabuli_chr07	30098532	TT	CC	1946891215
SNP_P4_97522_30098592	NC_021166.1	Ca_kabuli_chr07	30098592	GG	AA	1946891217
SNP_P4_97523_30099003	NC_021166.1	Ca_kabuli_chr07	30099003	CC	TT	1946891219
SNP_P4_97524_30099046	NC_021166.1	Ca_kabuli_chr07	30099046	AA	GG	1946891221
SNP_P4_97525_30099050	NC_021166.1	Ca_kabuli_chr07	30099050	TT	CC	1946891223
SNP_P4_97526_30099083	NC_021166.1	Ca_kabuli_chr07	30099083	AA	GG	1946891225
SNP_P4_97527_30099234	NC_021166.1	Ca_kabuli_chr07	30099234	GG	CC	1946891227
SNP_P4_97528_30099267	NC_021166.1	Ca_kabuli_chr07	30099267	GG	CC	1946891229
SNP_P4_97529_30099291	NC_021166.1	Ca_kabuli_chr07	30099291	GG	CC	1946891231
SNP_P4_97531_30100935	NC_021166.1	Ca_kabuli_chr07	30100935	AA	GG	1946891233
SNP_P4_97532_30101110	NC_021166.1	Ca_kabuli_chr07	30101110	CC	TT	1946891235
SNP_P4_97533_30101120	NC_021166.1	Ca_kabuli_chr07	30101120	AA	GG	1946891237
SNP_P4_97534_30101121	NC_021166.1	Ca_kabuli_chr07	30101121	TT	CC	1946891239
SNP_P4_97535_30101191	NC_021166.1	Ca_kabuli_chr07	30101191	CC	TT	1946891241
SNP_P4_97536_30102456	NC_021166.1	Ca_kabuli_chr07	30102456	AA	TT	1946891243
SNP_P4_97537_30102549	NC_021166.1	Ca_kabuli_chr07	30102549	TT	CC	1946891245
SNP_P4_97539_30103195	NC_021166.1	Ca_kabuli_chr07	30103195	AA	TT	1946891247
SNP_P4_97540_30103221	NC_021166.1	Ca_kabuli_chr07	30103221	TT	CC	1946891249
SNP_P4_97541_30103561	NC_021166.1	Ca_kabuli_chr07	30103561	CC	AA	1946891251
SNP_P4_97543_30105915	NC_021166.1	Ca_kabuli_chr07	30105915	AA	GG	1946891253
SNP_P4_97544_30106927	NC_021166.1	Ca_kabuli_chr07	30106927	CC	TT	1946891255
SNP_P4_97545_30107340	NC_021166.1	Ca_kabuli_chr07	30107340	AA	GG	1946891257
SNP_P4_97546_30108717	NC_021166.1	Ca_kabuli_chr07	30108717	CC	TT	1946891259
SNP_P4_97547_30109625	NC_021166.1	Ca_kabuli_chr07	30109625	AA	GG	1946891261
SNP_P4_97548_30111076	NC_021166.1	Ca_kabuli_chr07	30111076	CC	TT	1946891263
SNP_P4_97549_30112239	NC_021166.1	Ca_kabuli_chr07	30112239	GG	TT	1946891265
SNP_P4_97550_30112245	NC_021166.1	Ca_kabuli_chr07	30112245	AA	GG	1946891267
SNP_P4_97551_30115963	NC_021166.1	Ca_kabuli_chr07	30115963	TT	CC	1946891269
SNP_P4_97553_30117353	NC_021166.1	Ca_kabuli_chr07	30117353	AA	GG	1946891271
SNP_P4_97554_30117362	NC_021166.1	Ca_kabuli_chr07	30117362	AA	GG	1946891273
SNP_P4_97555_30120387	NC_021166.1	Ca_kabuli_chr07	30120387	AA	GG	1946891275

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_97557_30129561	NC_021166.1	Ca_kabuli_chr07	30129561	GG	TT	1946891279
SNP_P4_97558_30129562	NC_021166.1	Ca_kabuli_chr07	30129562	CC	GG	1946891281
SNP_P4_97559_30129616	NC_021166.1	Ca_kabuli_chr07	30129616	TT	CC	1946891283
SNP_P4_97561_30130322	NC_021166.1	Ca_kabuli_chr07	30130322	CC	TT	1946891285
SNP_P4_97562_30130324	NC_021166.1	Ca_kabuli_chr07	30130324	TT	CC	1946891287
SNP_P4_97564_30130366	NC_021166.1	Ca_kabuli_chr07	30130366	GG	AA	1946891289
SNP_P4_97565_30130532	NC_021166.1	Ca_kabuli_chr07	30130532	TT	CC	1946891291
SNP_P4_97566_30130562	NC_021166.1	Ca_kabuli_chr07	30130562	CC	AA	1946891293
SNP_P4_97567_30130655	NC_021166.1	Ca_kabuli_chr07	30130655	GG	AA	1946891295
SNP_P4_97568_30130661	NC_021166.1	Ca_kabuli_chr07	30130661	AA	GG	1946891297
SNP_P4_97570_30130769	NC_021166.1	Ca_kabuli_chr07	30130769	GG	AA	1946891300
SNP_P4_97571_30130799	NC_021166.1	Ca_kabuli_chr07	30130799	AA	GG	1946891302
SNP_P4_97572_30130869	NC_021166.1	Ca_kabuli_chr07	30130869	CC	TT	1946891304
SNP_P4_97573_30130924	NC_021166.1	Ca_kabuli_chr07	30130924	GG	AA	1946891306
SNP_P4_97575_30131836	NC_021166.1	Ca_kabuli_chr07	30131836	CC	TT	1946891308
SNP_P4_97576_30132105	NC_021166.1	Ca_kabuli_chr07	30132105	AA	GG	1946891310
SNP_P4_97577_30132112	NC_021166.1	Ca_kabuli_chr07	30132112	CC	TT	1946891312
SNP_P4_97580_30132723	NC_021166.1	Ca_kabuli_chr07	30132723	AA	CC	1946891314
SNP_P4_97581_30132985	NC_021166.1	Ca_kabuli_chr07	30132985	AA	TT	1946891316
SNP_P4_97582_30132990	NC_021166.1	Ca_kabuli_chr07	30132990	GG	CC	1946891318
SNP_P4_97583_30134752	NC_021166.1	Ca_kabuli_chr07	30134752	AA	GG	1946891321
SNP_P4_97584_30135737	NC_021166.1	Ca_kabuli_chr07	30135737	AA	TT	1946891323
SNP_P4_97585_30136300	NC_021166.1	Ca_kabuli_chr07	30136300	TT	AA	1946891325
SNP_P4_97586_30136301	NC_021166.1	Ca_kabuli_chr07	30136301	TT	CC	1946891327
SNP_P4_97587_30136328	NC_021166.1	Ca_kabuli_chr07	30136328	GG	AA	1946891329
SNP_P4_97588_30138842	NC_021166.1	Ca_kabuli_chr07	30138842	CC	AA	1946891331
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SNP_P4_97590_30145669	NC_021166.1	Ca_kabuli_chr07	30145669	AA	GG	1946891335
SNP_P4_97591_30146149	NC_021166.1	Ca_kabuli_chr07	30146149	TT	CC	1946891337
SNP_P4_97593_30146530	NC_021166.1	Ca_kabuli_chr07	30146530	TT	CC	1946891339
SNP_P4_97594_30146566	NC_021166.1	Ca_kabuli_chr07	30146566	TT	CC	1946891341
SNP_P4_97595_30146737	NC_021166.1	Ca_kabuli_chr07	30146737	GG	AA	1946891343
SNP_P4_97596_30146912	NC_021166.1	Ca_kabuli_chr07	30146912	TT	CC	1946891346
SNP_P4_97597_30147056	NC_021166.1	Ca_kabuli_chr07	30147056	GG	TT	1946891348
SNP_P4_97598_30147215	NC_021166.1	Ca_kabuli_chr07	30147215	CC	GG	1946891350
SNP_P4_97599_30147229	NC_021166.1	Ca_kabuli_chr07	30147229	GG	AA	1946891352
SNP_P4_97600_30148826	NC_021166.1	Ca_kabuli_chr07	30148826	TT	CC	1946891354
SNP_P4_97601_30148843	NC_021166.1	Ca_kabuli_chr07	30148843	TT	CC	1946891356
SNP_P4_97602_30148858	NC_021166.1	Ca_kabuli_chr07	30148858	TT	CC	1946891358
SNP_P4_97603_30148943	NC_021166.1	Ca_kabuli_chr07	30148943	TT	CC	1946891360
SNP_P4_97604_30148946	NC_021166.1	Ca_kabuli_chr07	30148946	GG	TT	1946891362

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_97606_30150194	NC_021166.1	Ca_kabuli_chr07	30150194	GG	TT	1946891366
SNP_P4_97607_30152147	NC_021166.1	Ca_kabuli_chr07	30152147	TT	AA	1946891368
SNP_P4_97608_30152246	NC_021166.1	Ca_kabuli_chr07	30152246	TT	CC	1946891370
SNP_P4_97609_30153413	NC_021166.1	Ca_kabuli_chr07	30153413	GG	CC	1946891373
SNP_P4_97610_30154478	NC_021166.1	Ca_kabuli_chr07	30154478	TT	AA	1946891375
SNP_P4_97611_30154801	NC_021166.1	Ca_kabuli_chr07	30154801	GG	AA	1946891377
SNP_P4_97613_30155503	NC_021166.1	Ca_kabuli_chr07	30155503	AA	TT	1946891379
SNP_P4_97614_30155798	NC_021166.1	Ca_kabuli_chr07	30155798	AA	CC	1946891381
SNP_P4_97615_30156612	NC_021166.1	Ca_kabuli_chr07	30156612	CC	TT	1946891383
SNP_P4_97617_30156907	NC_021166.1	Ca_kabuli_chr07	30156907	CC	TT	1946891385
SNP_P4_97618_30157079	NC_021166.1	Ca_kabuli_chr07	30157079	AA	CC	1946891387
SNP_P4_97619_30157366	NC_021166.1	Ca_kabuli_chr07	30157366	CC	TT	1946891389
SNP_P4_97620_30157578	NC_021166.1	Ca_kabuli_chr07	30157578	TT	AA	1946891391
SNP_P4_97621_30157582	NC_021166.1	Ca_kabuli_chr07	30157582	TT	AA	1946891393
SNP_P4_97622_30158016	NC_021166.1	Ca_kabuli_chr07	30158016	TT	CC	1946891395
SNP_P4_97623_30158357	NC_021166.1	Ca_kabuli_chr07	30158357	CC	GG	1946891397
SNP_P4_97624_30158363	NC_021166.1	Ca_kabuli_chr07	30158363	CC	TT	1946891399
SNP_P4_97625_30159084	NC_021166.1	Ca_kabuli_chr07	30159084	CC	TT	1946891401
SNP_P4_97626_30160484	NC_021166.1	Ca_kabuli_chr07	30160484	AA	GG	1946891403
SNP_P4_97627_30160488	NC_021166.1	Ca_kabuli_chr07	30160488	CC	AA	1946891405
SNP_P4_97628_30160947	NC_021166.1	Ca_kabuli_chr07	30160947	AA	GG	1946891407
SNP_P4_97629_30160986	NC_021166.1	Ca_kabuli_chr07	30160986	TT	CC	1946891409
SNP_P4_97630_30161179	NC_021166.1	Ca_kabuli_chr07	30161179	GG	AA	1946891411
SNP_P4_97632_30161316	NC_021166.1	Ca_kabuli_chr07	30161316	AA	GG	1946891413
SNP_P4_97634_30168371	NC_021166.1	Ca_kabuli_chr07	30168371	TT	CC	1946891415
SNP_P4_97635_30169867	NC_021166.1	Ca_kabuli_chr07	30169867	AA	GG	1946891417
SNP_P4_97637_30173185	NC_021166.1	Ca_kabuli_chr07	30173185	TT	CC	1946891419
SNP_P4_97638_30185355	NC_021166.1	Ca_kabuli_chr07	30185355	GG	AA	1946891421
SNP_P4_97640_30187488	NC_021166.1	Ca_kabuli_chr07	30187488	CC	TT	1946891423
SNP_P4_97641_30187524	NC_021166.1	Ca_kabuli_chr07	30187524	TT	AA	1946891425
SNP_P4_97642_30187705	NC_021166.1	Ca_kabuli_chr07	30187705	GG	AA	1946891427
SNP_P4_97643_30187788	NC_021166.1	Ca_kabuli_chr07	30187788	AA	TT	1946891429
SNP_P4_97644_30187810	NC_021166.1	Ca_kabuli_chr07	30187810	CC	AA	1946891431
SNP_P4_97645_30187827	NC_021166.1	Ca_kabuli_chr07	30187827	GG	AA	1946891433
SNP_P4_97646_30188121	NC_021166.1	Ca_kabuli_chr07	30188121	AA	GG	1946891435
SNP_P4_97647_30188306	NC_021166.1	Ca_kabuli_chr07	30188306	AA	GG	1946891437
SNP_P4_97648_30188441	NC_021166.1	Ca_kabuli_chr07	30188441	GG	AA	1946891439
SNP_P4_97649_30189401	NC_021166.1	Ca_kabuli_chr07	30189401	GG	CC	1946891441
SNP_P4_97650_30189832	NC_021166.1	Ca_kabuli_chr07	30189832	CC	AA	1946891443
SNP_P4_97651_30189861	NC_021166.1	Ca_kabuli_chr07	30189861	AA	TT	1946891445
SNP_P4_97653_30191026	NC_021166.1	Ca_kabuli_chr07	30191026	GG	TT	1946891447

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_97657_30196341	NC_021166.1	Ca_kabuli_chr07	30196341	GG	AA	1946891451
SNP_P4_97658_30196382	NC_021166.1	Ca_kabuli_chr07	30196382	AA	GG	1946891453
SNP_P4_97659_30201618	NC_021166.1	Ca_kabuli_chr07	30201618	TT	CC	1946891455
SNP_P4_97660_30201931	NC_021166.1	Ca_kabuli_chr07	30201931	CC	TT	1946891457
SNP_P4_97661_30203266	NC_021166.1	Ca_kabuli_chr07	30203266	AA	GG	1946891459
SNP_P4_97662_30203315	NC_021166.1	Ca_kabuli_chr07	30203315	GG	AA	1946891461
SNP_P4_97663_30203915	NC_021166.1	Ca_kabuli_chr07	30203915	TT	CC	1946891463
SNP_P4_97664_30204082	NC_021166.1	Ca_kabuli_chr07	30204082	GG	AA	1946891465
SNP_P4_97665_30205152	NC_021166.1	Ca_kabuli_chr07	30205152	CC	AA	1946891467
SNP_P4_97666_30206786	NC_021166.1	Ca_kabuli_chr07	30206786	CC	GG	1946891469
SNP_P4_97667_30206811	NC_021166.1	Ca_kabuli_chr07	30206811	GG	CC	1946891471
SNP_P4_97668_30206935	NC_021166.1	Ca_kabuli_chr07	30206935	TT	CC	1946891473
SNP_P4_97669_30207106	NC_021166.1	Ca_kabuli_chr07	30207106	CC	TT	1946891475
SNP_P4_97671_30207185	NC_021166.1	Ca_kabuli_chr07	30207185	CC	GG	1946891477
SNP_P4_97672_30207246	NC_021166.1	Ca_kabuli_chr07	30207246	AA	GG	1946891479
SNP_P4_97673_30207267	NC_021166.1	Ca_kabuli_chr07	30207267	TT	CC	1946891481
SNP_P4_97675_30207704	NC_021166.1	Ca_kabuli_chr07	30207704	GG	AA	1946891483
SNP_P4_97676_30207849	NC_021166.1	Ca_kabuli_chr07	30207849	GG	TT	1946891485
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SNP_P4_97678_30207941	NC_021166.1	Ca_kabuli_chr07	30207941	TT	AA	1946891489
SNP_P4_97679_30207961	NC_021166.1	Ca_kabuli_chr07	30207961	GG	AA	1946891491
SNP_P4_97680_30207981	NC_021166.1	Ca_kabuli_chr07	30207981	AA	CC	1946891493
SNP_P4_97681_30207992	NC_021166.1	Ca_kabuli_chr07	30207992	GG	CC	1946891495
SNP_P4_97682_30208010	NC_021166.1	Ca_kabuli_chr07	30208010	AA	CC	1946891497
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SNP_P4_97685_30208075	NC_021166.1	Ca_kabuli_chr07	30208075	CC	TT	1946891504
SNP_P4_97686_30208123	NC_021166.1	Ca_kabuli_chr07	30208123	AA	CC	1946891506
SNP_P4_97687_30208132	NC_021166.1	Ca_kabuli_chr07	30208132	AA	GG	1946891508
SNP_P4_97688_30208139	NC_021166.1	Ca_kabuli_chr07	30208139	GG	TT	1946891510
SNP_P4_97689_30208157	NC_021166.1	Ca_kabuli_chr07	30208157	TT	CC	1946891512
SNP_P4_97691_30208185	NC_021166.1	Ca_kabuli_chr07	30208185	GG	CC	1946891514
SNP_P4_97692_30208193	NC_021166.1	Ca_kabuli_chr07	30208193	GG	CC	1946891516
SNP_P4_97693_30208204	NC_021166.1	Ca_kabuli_chr07	30208204	TT	AA	1946891518
SNP_P4_97694_30208214	NC_021166.1	Ca_kabuli_chr07	30208214	GG	AA	1946891520
SNP_P4_97695_30208223	NC_021166.1	Ca_kabuli_chr07	30208223	AA	GG	1946891522
SNP_P4_97696_30208257	NC_021166.1	Ca_kabuli_chr07	30208257	AA	TT	1946891524
SNP_P4_97697_30208272	NC_021166.1	Ca_kabuli_chr07	30208272	AA	CC	1946891526
SNP_P4_97699_30208313	NC_021166.1	Ca_kabuli_chr07	30208313	TT	CC	1946891528
SNP_P4_97700_30208318	NC_021166.1	Ca_kabuli_chr07	30208318	AA	GG	1946891530
SNP_P4_97701_30208334	NC_021166.1	Ca_kabuli_chr07	30208334	CC	TT	1946891532

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_97704_30208536	NC_021166.1	Ca_kabuli_chr07	30208536	TT	CC	1946891536
SNP_P4_97705_30208549	NC_021166.1	Ca_kabuli_chr07	30208549	AA	CC	1946891538
SNP_P4_97706_30208695	NC_021166.1	Ca_kabuli_chr07	30208695	TT	CC	1946891540
SNP_P4_97707_30208747	NC_021166.1	Ca_kabuli_chr07	30208747	TT	GG	1946891542
SNP_P4_97709_30208789	NC_021166.1	Ca_kabuli_chr07	30208789	TT	GG	1946891544
SNP_P4_97710_30208827	NC_021166.1	Ca_kabuli_chr07	30208827	TT	CC	1946891546
SNP_P4_97711_30216086	NC_021166.1	Ca_kabuli_chr07	30216086	AA	GG	1946891548
SNP_P4_97712_30216159	NC_021166.1	Ca_kabuli_chr07	30216159	AA	TT	1946891550
SNP_P4_97713_30216167	NC_021166.1	Ca_kabuli_chr07	30216167	CC	TT	1946891552
SNP_P4_97714_30216170	NC_021166.1	Ca_kabuli_chr07	30216170	AA	CC	1946891554
SNP_P4_97715_30216484	NC_021166.1	Ca_kabuli_chr07	30216484	AA	TT	1946891556
SNP_P4_97716_30216756	NC_021166.1	Ca_kabuli_chr07	30216756	GG	TT	1946891558
SNP_P4_97717_30216848	NC_021166.1	Ca_kabuli_chr07	30216848	AA	GG	1946891560
SNP_P4_97718_30217624	NC_021166.1	Ca_kabuli_chr07	30217624	AA	GG	1946891562
SNP_P4_97719_30218326	NC_021166.1	Ca_kabuli_chr07	30218326	AA	GG	1946891564
SNP_P4_97721_30220054	NC_021166.1	Ca_kabuli_chr07	30220054	TT	CC	1946891566
SNP_P4_97722_30220143	NC_021166.1	Ca_kabuli_chr07	30220143	GG	AA	1946891568
SNP_P4_97723_30220432	NC_021166.1	Ca_kabuli_chr07	30220432	CC	TT	1946891570
SNP_P4_97724_30221438	NC_021166.1	Ca_kabuli_chr07	30221438	CC	TT	1946891572
SNP_P4_97727_30225818	NC_021166.1	Ca_kabuli_chr07	30225818	CC	TT	1946891574
SNP_P4_97728_30225856	NC_021166.1	Ca_kabuli_chr07	30225856	TT	CC	1946891576
SNP_P4_97729_30226567	NC_021166.1	Ca_kabuli_chr07	30226567	TT	GG	1946891578
SNP_P4_97730_30226866	NC_021166.1	Ca_kabuli_chr07	30226866	AA	GG	1946891580
SNP_P4_97731_30226874	NC_021166.1	Ca_kabuli_chr07	30226874	AA	CC	1946891582
SNP_P4_97732_30227065	NC_021166.1	Ca_kabuli_chr07	30227065	TT	GG	1946891584
SNP_P4_97733_30227416	NC_021166.1	Ca_kabuli_chr07	30227416	AA	CC	1946891586
SNP_P4_97735_30228810	NC_021166.1	Ca_kabuli_chr07	30228810	AA	TT	1946891588
SNP_P4_97736_30229537	NC_021166.1	Ca_kabuli_chr07	30229537	CC	TT	1946891590
SNP_P4_97737_30229689	NC_021166.1	Ca_kabuli_chr07	30229689	GG	AA	1946891592
SNP_P4_97738_30229735	NC_021166.1	Ca_kabuli_chr07	30229735	TT	GG	1946891594
SNP_P4_97739_30229739	NC_021166.1	Ca_kabuli_chr07	30229739	AA	GG	1946891596
SNP_P4_97741_30230137	NC_021166.1	Ca_kabuli_chr07	30230137	AA	GG	1946891598
SNP_P4_97742_30230231	NC_021166.1	Ca_kabuli_chr07	30230231	TT	CC	1946891600
SNP_P4_97743_30230239	NC_021166.1	Ca_kabuli_chr07	30230239	AA	GG	1946891602
SNP_P4_97744_30230280	NC_021166.1	Ca_kabuli_chr07	30230280	CC	AA	1946891604
SNP_P4_97745_30231718	NC_021166.1	Ca_kabuli_chr07	30231718	AA	GG	1946891606
SNP_P4_97746_30231762	NC_021166.1	Ca_kabuli_chr07	30231762	CC	TT	1946891608
SNP_P4_97747_30231943	NC_021166.1	Ca_kabuli_chr07	30231943	AA	TT	1946891610
SNP_P4_97748_30231945	NC_021166.1	Ca_kabuli_chr07	30231945	AA	GG	1946891612
SNP_P4_97749_30231974	NC_021166.1	Ca_kabuli_chr07	30231974	AA	CC	1946891614

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_97751_30232031	NC_021166.1	Ca_kabuli_chr07	30232031	TT	AA	1946891618
SNP_P4_97752_30232049	NC_021166.1	Ca_kabuli_chr07	30232049	AA	CC	1946891620
SNP_P4_97753_30232062	NC_021166.1	Ca_kabuli_chr07	30232062	TT	GG	1946891622
SNP_P4_97754_30232252	NC_021166.1	Ca_kabuli_chr07	30232252	CC	TT	1946891624
SNP_P4_97755_30232277	NC_021166.1	Ca_kabuli_chr07	30232277	CC	TT	1946891626
SNP_P4_97756_30232289	NC_021166.1	Ca_kabuli_chr07	30232289	CC	TT	1946891628
SNP_P4_97758_30232377	NC_021166.1	Ca_kabuli_chr07	30232377	GG	AA	1946891630
SNP_P4_97759_30232387	NC_021166.1	Ca_kabuli_chr07	30232387	CC	TT	1946891631
SNP_P4_97760_30232419	NC_021166.1	Ca_kabuli_chr07	30232419	CC	AA	1946891633
SNP_P4_97761_30232627	NC_021166.1	Ca_kabuli_chr07	30232627	CC	TT	1946891635
SNP_P4_97762_30232631	NC_021166.1	Ca_kabuli_chr07	30232631	GG	AA	1946891637
SNP_P4_97763_30232637	NC_021166.1	Ca_kabuli_chr07	30232637	AA	GG	1946891639
SNP_P4_97764_30232648	NC_021166.1	Ca_kabuli_chr07	30232648	TT	CC	1946891641
SNP_P4_97765_30232677	NC_021166.1	Ca_kabuli_chr07	30232677	TT	AA	1946891643
SNP_P4_97766_30233233	NC_021166.1	Ca_kabuli_chr07	30233233	CC	GG	1946891645
SNP_P4_97767_30233269	NC_021166.1	Ca_kabuli_chr07	30233269	AA	TT	1946891647
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SNP_P4_97771_30234756	NC_021166.1	Ca_kabuli_chr07	30234756	TT	AA	1946891651
SNP_P4_97774_30255285	NC_021166.1	Ca_kabuli_chr07	30255285	CC	TT	1946891653
SNP_P4_97775_30265638	NC_021166.1	Ca_kabuli_chr07	30265638	CC	TT	1946891655
SNP_P4_97776_30265639	NC_021166.1	Ca_kabuli_chr07	30265639	AA	TT	1946891657
SNP_P4_97777_30268732	NC_021166.1	Ca_kabuli_chr07	30268732	AA	CC	1946891659
SNP_P4_97778_30302528	NC_021166.1	Ca_kabuli_chr07	30302528	CC	GG	1946891661
SNP_P4_97779_30322431	NC_021166.1	Ca_kabuli_chr07	30322431	TT	GG	1946891663
SNP_P4_97780_30328330	NC_021166.1	Ca_kabuli_chr07	30328330	TT	GG	1946891665
SNP_P4_97781_30339877	NC_021166.1	Ca_kabuli_chr07	30339877	TT	CC	1946891667
SNP_P4_97782_30339878	NC_021166.1	Ca_kabuli_chr07	30339878	CC	AA	1946891669
SNP_P4_97783_30344846	NC_021166.1	Ca_kabuli_chr07	30344846	AA	TT	1946891672
SNP_P4_97785_30345677	NC_021166.1	Ca_kabuli_chr07	30345677	CC	GG	1946891674
SNP_P4_97786_30363903	NC_021166.1	Ca_kabuli_chr07	30363903	TT	GG	1946891676
SNP_P4_97787_30393827	NC_021166.1	Ca_kabuli_chr07	30393827	AA	GG	1946891678
SNP_P4_97789_30395977	NC_021166.1	Ca_kabuli_chr07	30395977	TT	CC	1946891680
SNP_P4_97790_30411574	NC_021166.1	Ca_kabuli_chr07	30411574	CC	TT	1946891682
SNP_P4_97791_30412951	NC_021166.1	Ca_kabuli_chr07	30412951	AA	GG	1946891684
SNP_P4_97792_30414645	NC_021166.1	Ca_kabuli_chr07	30414645	GG	AA	1946891686
SNP_P4_97793_30414809	NC_021166.1	Ca_kabuli_chr07	30414809	GG	TT	1946891688
SNP_P4_97794_30414863	NC_021166.1	Ca_kabuli_chr07	30414863	AA	GG	1946891690
SNP_P4_97795_30414867	NC_021166.1	Ca_kabuli_chr07	30414867	TT	CC	1946891692
SNP_P4_97796_30414886	NC_021166.1	Ca_kabuli_chr07	30414886	AA	GG	1946891694
SNP_P4_97797_30414911	NC_021166.1	Ca_kabuli_chr07	30414911	TT	CC	1946891696
SNP_P4_97798_30414914	NC_021166.1	Ca_kabuli_chr07	30414914	GG	TT	1946891698

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_97800_30415187	NC_021166.1	Ca_kabuli_chr07	30415187	TT	CC	1946891703
SNP_P4_97802_30415206	NC_021166.1	Ca_kabuli_chr07	30415206	CC	AA	1946891705
SNP_P4_97803_30415321	NC_021166.1	Ca_kabuli_chr07	30415321	CC	TT	1946891707
SNP_P4_97804_30415327	NC_021166.1	Ca_kabuli_chr07	30415327	TT	GG	1946891709
SNP_P4_97805_30415350	NC_021166.1	Ca_kabuli_chr07	30415350	TT	AA	1946891712
SNP_P4_97807_30415408	NC_021166.1	Ca_kabuli_chr07	30415408	TT	CC	1946891714
SNP_P4_97808_30415435	NC_021166.1	Ca_kabuli_chr07	30415435	CC	TT	1946891716
SNP_P4_97809_30415436	NC_021166.1	Ca_kabuli_chr07	30415436	TT	CC	1946891718
SNP_P4_97810_30415437	NC_021166.1	Ca_kabuli_chr07	30415437	AA	GG	1946891720
SNP_P4_97811_30415444	NC_021166.1	Ca_kabuli_chr07	30415444	CC	TT	1946891722
SNP_P4_97812_30415449	NC_021166.1	Ca_kabuli_chr07	30415449	GG	AA	1946891724
SNP_P4_97813_30415643	NC_021166.1	Ca_kabuli_chr07	30415643	TT	CC	1946891726
SNP_P4_97814_30415670	NC_021166.1	Ca_kabuli_chr07	30415670	AA	GG	1946891728
SNP_P4_97815_30415775	NC_021166.1	Ca_kabuli_chr07	30415775	AA	GG	1946891730
SNP_P4_97816_30422872	NC_021166.1	Ca_kabuli_chr07	30422872	CC	TT	1946891732
SNP_P4_97817_30424026	NC_021166.1	Ca_kabuli_chr07	30424026	AA	GG	1946891734
SNP_P4_97818_30424122	NC_021166.1	Ca_kabuli_chr07	30424122	AA	GG	1946891736
SNP_P4_97820_30424498	NC_021166.1	Ca_kabuli_chr07	30424498	CC	TT	1946891738
SNP_P4_97821_30424740	NC_021166.1	Ca_kabuli_chr07	30424740	TT	AA	1946891740
SNP_P4_97822_30426685	NC_021166.1	Ca_kabuli_chr07	30426685	TT	CC	1946891742
SNP_P4_97823_30426775	NC_021166.1	Ca_kabuli_chr07	30426775	GG	TT	1946891744
SNP_P4_97824_30617045	NC_021166.1	Ca_kabuli_chr07	30617045	AA	GG	1946891746
SNP_P4_97825_30617443	NC_021166.1	Ca_kabuli_chr07	30617443	TT	CC	1946891748
SNP_P4_97826_30627155	NC_021166.1	Ca_kabuli_chr07	30627155	CC	AA	1946891750
SNP_P4_97827_30627158	NC_021166.1	Ca_kabuli_chr07	30627158	AA	TT	1946891753
SNP_P4_97828_30632440	NC_021166.1	Ca_kabuli_chr07	30632440	AA	GG	1946891755
SNP_P4_97830_30646425	NC_021166.1	Ca_kabuli_chr07	30646425	AA	CC	1946891757
SNP_P4_97831_30653738	NC_021166.1	Ca_kabuli_chr07	30653738	CC	TT	1946891759
SNP_P4_97832_30657587	NC_021166.1	Ca_kabuli_chr07	30657587	TT	CC	1946891761
SNP_P4_97833_30661407	NC_021166.1	Ca_kabuli_chr07	30661407	AA	CC	1946891763
SNP_P4_97834_30661557	NC_021166.1	Ca_kabuli_chr07	30661557	GG	AA	1946891765
SNP_P4_97835_30661920	NC_021166.1	Ca_kabuli_chr07	30661920	GG	AA	1946891767
SNP_P4_97837_30681397	NC_021166.1	Ca_kabuli_chr07	30681397	GG	AA	1946891769
SNP_P4_97838_30720852	NC_021166.1	Ca_kabuli_chr07	30720852	TT	CC	1946891771
SNP_P4_97839_30721008	NC_021166.1	Ca_kabuli_chr07	30721008	GG	AA	1946891773
SNP_P4_97840_30721052	NC_021166.1	Ca_kabuli_chr07	30721052	TT	GG	1946891775
SNP_P4_97842_30749636	NC_021166.1	Ca_kabuli_chr07	30749636	AA	TT	1946891777
SNP_P4_97843_30749637	NC_021166.1	Ca_kabuli_chr07	30749637	AA	TT	1946891779
SNP_P4_97844_30780499	NC_021166.1	Ca_kabuli_chr07	30780499	TT	AA	1946891781
SNP_P4_97845_30801643	NC_021166.1	Ca_kabuli_chr07	30801643	GG	AA	1946891783
SNP_P4_97849_30845598	NC_021166.1	Ca_kabuli_chr07	30845598	AA	TT	1946891785

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_97851_30874265	NC_021166.1	Ca_kabuli_chr07	30874265	GG	AA	1946891789
SNP_P4_97852_30874266	NC_021166.1	Ca_kabuli_chr07	30874266	AA	GG	1946891791
SNP_P4_97854_30874315	NC_021166.1	Ca_kabuli_chr07	30874315	CC	TT	1946891793
SNP_P4_97855_30874335	NC_021166.1	Ca_kabuli_chr07	30874335	GG	AA	1946891795
SNP_P4_97856_30874372	NC_021166.1	Ca_kabuli_chr07	30874372	AA	GG	1946891797
SNP_P4_97857_30874380	NC_021166.1	Ca_kabuli_chr07	30874380	TT	CC	1946891799
SNP_P4_97858_30874646	NC_021166.1	Ca_kabuli_chr07	30874646	TT	CC	1946891801
SNP_P4_97859_30874652	NC_021166.1	Ca_kabuli_chr07	30874652	GG	AA	1946891803
SNP_P4_97860_30874725	NC_021166.1	Ca_kabuli_chr07	30874725	GG	AA	1946891805
SNP_P4_97861_30874745	NC_021166.1	Ca_kabuli_chr07	30874745	GG	AA	1946891807
SNP_P4_97862_30911990	NC_021166.1	Ca_kabuli_chr07	30911990	TT	CC	1946891809
SNP_P4_97863_30912820	NC_021166.1	Ca_kabuli_chr07	30912820	GG	CC	1946891811
SNP_P4_97864_30930435	NC_021166.1	Ca_kabuli_chr07	30930435	CC	TT	1946891813
SNP_P4_97865_30930489	NC_021166.1	Ca_kabuli_chr07	30930489	CC	TT	1946891815
SNP_P4_97866_30930524	NC_021166.1	Ca_kabuli_chr07	30930524	GG	AA	1946891817
SNP_P4_97867_30930561	NC_021166.1	Ca_kabuli_chr07	30930561	TT	AA	1946891819
SNP_P4_97868_30930573	NC_021166.1	Ca_kabuli_chr07	30930573	AA	GG	1946891821
SNP_P4_97869_30930587	NC_021166.1	Ca_kabuli_chr07	30930587	CC	GG	1946891823
SNP_P4_97871_30930689	NC_021166.1	Ca_kabuli_chr07	30930689	GG	CC	1946891825
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SNP_P4_97874_30930847	NC_021166.1	Ca_kabuli_chr07	30930847	GG	AA	1946891831
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SNP_P4_97878_30933505	NC_021166.1	Ca_kabuli_chr07	30933505	AA	GG	1946891839
SNP_P4_97880_30966101	NC_021166.1	Ca_kabuli_chr07	30966101	AA	TT	1946891841
SNP_P4_97881_30966130	NC_021166.1	Ca_kabuli_chr07	30966130	AA	GG	1946891843
SNP_P4_97882_30966484	NC_021166.1	Ca_kabuli_chr07	30966484	AA	TT	1946891845
SNP_P4_97885_30987856	NC_021166.1	Ca_kabuli_chr07	30987856	CC	GG	1946891847
SNP_P4_97887_30988099	NC_021166.1	Ca_kabuli_chr07	30988099	AA	CC	1946891849
SNP_P4_97888_30988256	NC_021166.1	Ca_kabuli_chr07	30988256	CC	TT	1946891851
SNP_P4_97889_30988266	NC_021166.1	Ca_kabuli_chr07	30988266	CC	GG	1946891853
SNP_P4_97891_30998321	NC_021166.1	Ca_kabuli_chr07	30998321	TT	CC	1946891855
SNP_P4_97892_30998667	NC_021166.1	Ca_kabuli_chr07	30998667	AA	TT	1946891857
SNP_P4_97893_30998731	NC_021166.1	Ca_kabuli_chr07	30998731	TT	GG	1946891859
SNP_P4_97894_30999506	NC_021166.1	Ca_kabuli_chr07	30999506	AA	GG	1946891862
SNP_P4_97896_30999587	NC_021166.1	Ca_kabuli_chr07	30999587	CC	TT	1946891864
SNP_P4_97897_31005234	NC_021166.1	Ca_kabuli_chr07	31005234	GG	TT	1946891866
SNP_P4_97898_31005628	NC_021166.1	Ca_kabuli_chr07	31005628	TT	CC	1946891868
SNP_P4_97901_31047268	NC_021166.1	Ca_kabuli_chr07	31047268	CC	TT	1946891870

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_97903_31047314	NC_021166.1	Ca_kabuli_chr07	31047314	AA	TT	1946891875
SNP_P4_97904_31048626	NC_021166.1	Ca_kabuli_chr07	31048626	CC	TT	1946891877
SNP_P4_97905_31048637	NC_021166.1	Ca_kabuli_chr07	31048637	GG	AA	1946891879
SNP_P4_97906_31060103	NC_021166.1	Ca_kabuli_chr07	31060103	TT	CC	1946891881
SNP_P4_97907_31064466	NC_021166.1	Ca_kabuli_chr07	31064466	CC	TT	1946891883
SNP_P4_97908_31065191	NC_021166.1	Ca_kabuli_chr07	31065191	TT	AA	1946891885
SNP_P4_97909_31065204	NC_021166.1	Ca_kabuli_chr07	31065204	CC	TT	1946891888
SNP_P4_97910_31073467	NC_021166.1	Ca_kabuli_chr07	31073467	AA	CC	1946891890
SNP_P4_97911_31073482	NC_021166.1	Ca_kabuli_chr07	31073482	TT	CC	1946891892
SNP_P4_97912_31073537	NC_021166.1	Ca_kabuli_chr07	31073537	GG	AA	1946891894
SNP_P4_97913_31073974	NC_021166.1	Ca_kabuli_chr07	31073974	CC	TT	1946891896
SNP_P4_97914_31074176	NC_021166.1	Ca_kabuli_chr07	31074176	AA	GG	1946891898
SNP_P4_97915_31074192	NC_021166.1	Ca_kabuli_chr07	31074192	AA	CC	1946891900
SNP_P4_97916_31074195	NC_021166.1	Ca_kabuli_chr07	31074195	CC	TT	1946891902
SNP_P4_97917_31074202	NC_021166.1	Ca_kabuli_chr07	31074202	AA	GG	1946891905
SNP_P4_97918_31074242	NC_021166.1	Ca_kabuli_chr07	31074242	TT	CC	1946891907
SNP_P4_97919_31074339	NC_021166.1	Ca_kabuli_chr07	31074339	CC	TT	1946891909
SNP_P4_97920_31074371	NC_021166.1	Ca_kabuli_chr07	31074371	TT	CC	1946891911
SNP_P4_97921_31074426	NC_021166.1	Ca_kabuli_chr07	31074426	AA	GG	1946891913
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SNP_P4_97923_31074463	NC_021166.1	Ca_kabuli_chr07	31074463	TT	GG	1946891917
SNP_P4_97924_31074495	NC_021166.1	Ca_kabuli_chr07	31074495	TT	CC	1946891920
SNP_P4_97925_31074771	NC_021166.1	Ca_kabuli_chr07	31074771	TT	CC	1946891922
SNP_P4_97926_31074814	NC_021166.1	Ca_kabuli_chr07	31074814	AA	GG	1946891924
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SNP_P4_97928_31074877	NC_021166.1	Ca_kabuli_chr07	31074877	CC	TT	1946891928
SNP_P4_97929_31074889	NC_021166.1	Ca_kabuli_chr07	31074889	TT	CC	1946891930
SNP_P4_97930_31074896	NC_021166.1	Ca_kabuli_chr07	31074896	AA	GG	1946891932
SNP_P4_97931_31075140	NC_021166.1	Ca_kabuli_chr07	31075140	CC	TT	1946891934
SNP_P4_97932_31081858	NC_021166.1	Ca_kabuli_chr07	31081858	CC	TT	1946891936
SNP_P4_97933_31084293	NC_021166.1	Ca_kabuli_chr07	31084293	AA	GG	1946891938
SNP_P4_97934_31094043	NC_021166.1	Ca_kabuli_chr07	31094043	TT	GG	1946891940
SNP_P4_97935_31105108	NC_021166.1	Ca_kabuli_chr07	31105108	GG	AA	1946891942
SNP_P4_97936_31111624	NC_021166.1	Ca_kabuli_chr07	31111624	AA	CC	1946891944
SNP_P4_97937_31111705	NC_021166.1	Ca_kabuli_chr07	31111705	GG	AA	1946891946
SNP_P4_97938_31111839	NC_021166.1	Ca_kabuli_chr07	31111839	AA	GG	1946891948
SNP_P4_97939_31111875	NC_021166.1	Ca_kabuli_chr07	31111875	AA	TT	1946891950
SNP_P4_97940_31111876	NC_021166.1	Ca_kabuli_chr07	31111876	AA	TT	1946891952
SNP_P4_97941_31111898	NC_021166.1	Ca_kabuli_chr07	31111898	CC	TT	1946891954
SNP_P4_97942_31111913	NC_021166.1	Ca_kabuli_chr07	31111913	GG	TT	1946891956
SNP_P4_97943_31111937	NC_021166.1	Ca_kabuli_chr07	31111937	CC	TT	1946891958

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_97944_31112256	NC_021166.1	Ca_kabuli_chr07	31112256	AA	TT	1946891960
SNP_P4_97945_31112388	NC_021166.1	Ca_kabuli_chr07	31112388	CC	AA	1946891962
SNP_P4_97946_31112426	NC_021166.1	Ca_kabuli_chr07	31112426	AA	CC	1946891964
SNP_P4_97948_31112497	NC_021166.1	Ca_kabuli_chr07	31112497	GG	TT	1946891966
SNP_P4_97949_31112514	NC_021166.1	Ca_kabuli_chr07	31112514	GG	AA	1946891968
SNP_P4_97950_31112746	NC_021166.1	Ca_kabuli_chr07	31112746	AA	TT	1946891970
SNP_P4_97951_31112766	NC_021166.1	Ca_kabuli_chr07	31112766	AA	GG	1946891972
SNP_P4_97952_31134451	NC_021166.1	Ca_kabuli_chr07	31134451	AA	GG	1946891974
SNP_P4_97953_31138157	NC_021166.1	Ca_kabuli_chr07	31138157	GG	AA	1946891976
SNP_P4_97954_31142674	NC_021166.1	Ca_kabuli_chr07	31142674	GG	TT	1946891978
SNP_P4_97955_31151276	NC_021166.1	Ca_kabuli_chr07	31151276	AA	GG	1946891980
SNP_P4_97956_31185445	NC_021166.1	Ca_kabuli_chr07	31185445	CC	TT	1946891982
SNP_P4_97957_31186006	NC_021166.1	Ca_kabuli_chr07	31186006	CC	TT	1946891984
SNP_P4_97958_31186038	NC_021166.1	Ca_kabuli_chr07	31186038	GG	TT	1946891986
SNP_P4_97959_31186050	NC_021166.1	Ca_kabuli_chr07	31186050	AA	CC	1946891988
SNP_P4_97961_31186578	NC_021166.1	Ca_kabuli_chr07	31186578	TT	GG	1946891990
SNP_P4_97962_31188392	NC_021166.1	Ca_kabuli_chr07	31188392	GG	AA	1946891992
SNP_P4_97963_31189012	NC_021166.1	Ca_kabuli_chr07	31189012	AA	TT	1946891994
SNP_P4_97964_31189014	NC_021166.1	Ca_kabuli_chr07	31189014	AA	TT	1946891996
SNP_P4_97965_31189015	NC_021166.1	Ca_kabuli_chr07	31189015	AA	TT	1946891998
SNP_P4_97966_31193917	NC_021166.1	Ca_kabuli_chr07	31193917	TT	CC	1946892000
SNP_P4_97967_31196014	NC_021166.1	Ca_kabuli_chr07	31196014	TT	CC	1946892002
SNP_P4_97969_31196196	NC_021166.1	Ca_kabuli_chr07	31196196	GG	AA	1946892004
SNP_P4_97970_31196226	NC_021166.1	Ca_kabuli_chr07	31196226	CC	TT	1946892006
SNP_P4_97971_31196249	NC_021166.1	Ca_kabuli_chr07	31196249	TT	AA	1946892008
SNP_P4_97972_31196252	NC_021166.1	Ca_kabuli_chr07	31196252	AA	TT	1946892010
SNP_P4_97974_31196933	NC_021166.1	Ca_kabuli_chr07	31196933	CC	TT	1946892012
SNP_P4_97975_31197004	NC_021166.1	Ca_kabuli_chr07	31197004	AA	CC	1946892014
SNP_P4_97976_31197497	NC_021166.1	Ca_kabuli_chr07	31197497	CC	AA	1946892016
SNP_P4_97977_31197506	NC_021166.1	Ca_kabuli_chr07	31197506	CC	AA	1946892018
SNP_P4_97979_31199053	NC_021166.1	Ca_kabuli_chr07	31199053	TT	AA	1946892020
SNP_P4_97980_31199084	NC_021166.1	Ca_kabuli_chr07	31199084	CC	GG	1946892022
SNP_P4_97981_31201190	NC_021166.1	Ca_kabuli_chr07	31201190	CC	AA	1946892024
SNP_P4_97982_31201561	NC_021166.1	Ca_kabuli_chr07	31201561	AA	GG	1946892026
SNP_P4_97983_31201566	NC_021166.1	Ca_kabuli_chr07	31201566	GG	AA	1946892028
SNP_P4_97985_31201811	NC_021166.1	Ca_kabuli_chr07	31201811	GG	AA	1946892030
SNP_P4_97988_31206551	NC_021166.1	Ca_kabuli_chr07	31206551	CC	AA	1946892032
SNP_P4_97989_31206595	NC_021166.1	Ca_kabuli_chr07	31206595	AA	GG	1946892034
SNP_P4_97990_31206610	NC_021166.1	Ca_kabuli_chr07	31206610	CC	TT	1946892036
SNP_P4_97991_31206626	NC_021166.1	Ca_kabuli_chr07	31206626	TT	CC	1946892038
SNP_P4_97992_31206638	NC_021166.1	Ca_kabuli_chr07	31206638	AA	GG	1946892040
SNP_P4_97993_31206759	NC_021166.1	Ca_kabuli_chr07	31206759	CC	TT	1946892042

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_97994_31206763	NC_021166.1	Ca_kabuli_chr07	31206763	GG	AA	1946892044
SNP_P4_97995_31206793	NC_021166.1	Ca_kabuli_chr07	31206793	TT	CC	1946892046
SNP_P4_97997_31207398	NC_021166.1	Ca_kabuli_chr07	31207398	GG	TT	1946892048
SNP_P4_97998_31207400	NC_021166.1	Ca_kabuli_chr07	31207400	TT	AA	1946892050
SNP_P4_97999_31207401	NC_021166.1	Ca_kabuli_chr07	31207401	CC	AA	1946892052
SNP_P4_98000_31207550	NC_021166.1	Ca_kabuli_chr07	31207550	TT	AA	1946892054
SNP_P4_98001_31207576	NC_021166.1	Ca_kabuli_chr07	31207576	AA	CC	1946892056
SNP_P4_98002_31208013	NC_021166.1	Ca_kabuli_chr07	31208013	CC	TT	1946892059
SNP_P4_98003_31209187	NC_021166.1	Ca_kabuli_chr07	31209187	CC	TT	1946892061
SNP_P4_98004_31209233	NC_021166.1	Ca_kabuli_chr07	31209233	GG	CC	1946892063
SNP_P4_98006_31209887	NC_021166.1	Ca_kabuli_chr07	31209887	AA	GG	1946892065
SNP_P4_98007_31210075	NC_021166.1	Ca_kabuli_chr07	31210075	AA	GG	1946892067
SNP_P4_98008_31210921	NC_021166.1	Ca_kabuli_chr07	31210921	GG	AA	1946892069
SNP_P4_98010_31211471	NC_021166.1	Ca_kabuli_chr07	31211471	CC	TT	1946892071
SNP_P4_98011_31214342	NC_021166.1	Ca_kabuli_chr07	31214342	GG	AA	1946892073
SNP_P4_98014_31216513	NC_021166.1	Ca_kabuli_chr07	31216513	TT	AA	1946892075
SNP_P4_98016_31216602	NC_021166.1	Ca_kabuli_chr07	31216602	TT	CC	1946892078
SNP_P4_98017_31217131	NC_021166.1	Ca_kabuli_chr07	31217131	AA	GG	1946892080
SNP_P4_98020_31217577	NC_021166.1	Ca_kabuli_chr07	31217577	GG	TT	1946892082
SNP_P4_98021_31217749	NC_021166.1	Ca_kabuli_chr07	31217749	TT	AA	1946892084
SNP_P4_98022_31218734	NC_021166.1	Ca_kabuli_chr07	31218734	GG	AA	1946892086
SNP_P4_98023_31218735	NC_021166.1	Ca_kabuli_chr07	31218735	AA	GG	1946892088
SNP_P4_98024_31219631	NC_021166.1	Ca_kabuli_chr07	31219631	CC	AA	1946892090
SNP_P4_98025_31219640	NC_021166.1	Ca_kabuli_chr07	31219640	CC	GG	1946892092
SNP_P4_98026_31219646	NC_021166.1	Ca_kabuli_chr07	31219646	TT	CC	1946892094
SNP_P4_98027_31219651	NC_021166.1	Ca_kabuli_chr07	31219651	TT	GG	1946892096
SNP_P4_98028_31219660	NC_021166.1	Ca_kabuli_chr07	31219660	AA	TT	1946892098
SNP_P4_98029_31219672	NC_021166.1	Ca_kabuli_chr07	31219672	TT	AA	1946892100
SNP_P4_98030_31219696	NC_021166.1	Ca_kabuli_chr07	31219696	GG	AA	1946892102
SNP_P4_98031_31221747	NC_021166.1	Ca_kabuli_chr07	31221747	CC	TT	1946892104
SNP_P4_98032_31224932	NC_021166.1	Ca_kabuli_chr07	31224932	TT	GG	1946892106
SNP_P4_98033_31224962	NC_021166.1	Ca_kabuli_chr07	31224962	AA	GG	1946892108
SNP_P4_98034_31225171	NC_021166.1	Ca_kabuli_chr07	31225171	AA	TT	1946892111
SNP_P4_98035_31225914	NC_021166.1	Ca_kabuli_chr07	31225914	CC	AA	1946892113
SNP_P4_98036_31228153	NC_021166.1	Ca_kabuli_chr07	31228153	AA	GG	1946892115
SNP_P4_98037_31228352	NC_021166.1	Ca_kabuli_chr07	31228352	GG	AA	1946892117
SNP_P4_98038_31229109	NC_021166.1	Ca_kabuli_chr07	31229109	CC	TT	1946892119
SNP_P4_98039_31229973	NC_021166.1	Ca_kabuli_chr07	31229973	AA	TT	1946892121
SNP_P4_98040_31230295	NC_021166.1	Ca_kabuli_chr07	31230295	GG	TT	1946892123
SNP_P4_98041_31232100	NC_021166.1	Ca_kabuli_chr07	31232100	CC	TT	1946892125
SNP_P4_98043_31233150	NC_021166.1	Ca_kabuli_chr07	31233150	GG	AA	1946892127
SNP_P4_98044_31233607	NC_021166.1	Ca_kabuli_chr07	31233607	TT	CC	1946892129

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_98046_31235345	NC_021166.1	Ca_kabuli_chr07	31235345	TT	CC	1946892133
SNP_P4_98047_31235553	NC_021166.1	Ca_kabuli_chr07	31235553	AA	GG	1946892135
SNP_P4_98048_31235572	NC_021166.1	Ca_kabuli_chr07	31235572	GG	TT	1946892137
SNP_P4_98049_31235606	NC_021166.1	Ca_kabuli_chr07	31235606	CC	TT	1946892139
SNP_P4_98050_31237839	NC_021166.1	Ca_kabuli_chr07	31237839	GG	TT	1946892141
SNP_P4_98051_31240077	NC_021166.1	Ca_kabuli_chr07	31240077	TT	CC	1946892143
SNP_P4_98052_31240495	NC_021166.1	Ca_kabuli_chr07	31240495	TT	CC	1946892145
SNP_P4_98053_31240931	NC_021166.1	Ca_kabuli_chr07	31240931	CC	AA	1946892147
SNP_P4_98055_31244917	NC_021166.1	Ca_kabuli_chr07	31244917	GG	AA	1946892149
SNP_P4_98057_31247144	NC_021166.1	Ca_kabuli_chr07	31247144	TT	GG	1946892151
SNP_P4_98058_31247168	NC_021166.1	Ca_kabuli_chr07	31247168	GG	AA	1946892152
SNP_P4_98061_31247574	NC_021166.1	Ca_kabuli_chr07	31247574	TT	CC	1946892154
SNP_P4_98062_31247742	NC_021166.1	Ca_kabuli_chr07	31247742	GG	AA	1946892156
SNP_P4_98063_31247752	NC_021166.1	Ca_kabuli_chr07	31247752	CC	TT	1946892158
SNP_P4_98064_31247755	NC_021166.1	Ca_kabuli_chr07	31247755	CC	TT	1946892160
SNP_P4_98065_31247785	NC_021166.1	Ca_kabuli_chr07	31247785	AA	GG	1946892162
SNP_P4_98066_31248563	NC_021166.1	Ca_kabuli_chr07	31248563	CC	TT	1946892164
SNP_P4_98067_31248614	NC_021166.1	Ca_kabuli_chr07	31248614	GG	AA	1946892166
SNP_P4_98068_31248638	NC_021166.1	Ca_kabuli_chr07	31248638	AA	CC	1946892168
SNP_P4_98069_31248750	NC_021166.1	Ca_kabuli_chr07	31248750	TT	AA	1946892171
SNP_P4_98070_31250222	NC_021166.1	Ca_kabuli_chr07	31250222	CC	TT	1946892173
SNP_P4_98072_31251366	NC_021166.1	Ca_kabuli_chr07	31251366	TT	CC	1946892175
SNP_P4_98074_31255525	NC_021166.1	Ca_kabuli_chr07	31255525	CC	TT	1946892177
SNP_P4_98075_31255874	NC_021166.1	Ca_kabuli_chr07	31255874	TT	CC	1946892179
SNP_P4_98076_31255921	NC_021166.1	Ca_kabuli_chr07	31255921	CC	AA	1946892181
SNP_P4_98077_31255922	NC_021166.1	Ca_kabuli_chr07	31255922	TT	GG	1946892183
SNP_P4_98078_31255938	NC_021166.1	Ca_kabuli_chr07	31255938	GG	AA	1946892185
SNP_P4_98079_31279025	NC_021166.1	Ca_kabuli_chr07	31279025	TT	CC	1946892187
SNP_P4_98080_31285434	NC_021166.1	Ca_kabuli_chr07	31285434	GG	TT	1946892189
SNP_P4_98081_31331060	NC_021166.1	Ca_kabuli_chr07	31331060	GG	AA	1946892191
SNP_P4_98082_31342447	NC_021166.1	Ca_kabuli_chr07	31342447	TT	CC	1946892193
SNP_P4_98084_31395576	NC_021166.1	Ca_kabuli_chr07	31395576	CC	TT	1946892195
SNP_P4_98086_31408457	NC_021166.1	Ca_kabuli_chr07	31408457	AA	GG	1946892197
SNP_P4_98087_31425261	NC_021166.1	Ca_kabuli_chr07	31425261	TT	CC	1946892199
SNP_P4_98088_31465405	NC_021166.1	Ca_kabuli_chr07	31465405	AA	TT	1946892201
SNP_P4_98089_31474333	NC_021166.1	Ca_kabuli_chr07	31474333	GG	AA	1946892204
SNP_P4_98090_31477031	NC_021166.1	Ca_kabuli_chr07	31477031	GG	AA	1946892206
SNP_P4_98091_31490677	NC_021166.1	Ca_kabuli_chr07	31490677	CC	TT	1946892208
SNP_P4_98094_31521406	NC_021166.1	Ca_kabuli_chr07	31521406	AA	GG	1946892210
SNP_P4_98095_31534038	NC_021166.1	Ca_kabuli_chr07	31534038	AA	CC	1946892212
SNP_P4_98096_31534093	NC_021166.1	Ca_kabuli_chr07	31534093	TT	GG	1946892214

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_98100_31561011	NC_021166.1	Ca_kabuli_chr07	31561011	AA	GG	1946892218
SNP_P4_98101_31582240	NC_021166.1	Ca_kabuli_chr07	31582240	TT	AA	1946892220
SNP_P4_98102_31594255	NC_021166.1	Ca_kabuli_chr07	31594255	TT	CC	1946892221
SNP_P4_98103_31594286	NC_021166.1	Ca_kabuli_chr07	31594286	AA	CC	1946892223
SNP_P4_98104_31594290	NC_021166.1	Ca_kabuli_chr07	31594290	GG	AA	1946892225
SNP_P4_98105_31594308	NC_021166.1	Ca_kabuli_chr07	31594308	TT	GG	1946892227
SNP_P4_98106_31614024	NC_021166.1	Ca_kabuli_chr07	31614024	CC	TT	1946892229
SNP_P4_98107_31636605	NC_021166.1	Ca_kabuli_chr07	31636605	TT	GG	1946892231
SNP_P4_98108_31639032	NC_021166.1	Ca_kabuli_chr07	31639032	TT	CC	1946892233
SNP_P4_98109_31654447	NC_021166.1	Ca_kabuli_chr07	31654447	AA	GG	1946892235
SNP_P4_98110_31661241	NC_021166.1	Ca_kabuli_chr07	31661241	AA	TT	1946892237
SNP_P4_98111_31665230	NC_021166.1	Ca_kabuli_chr07	31665230	TT	AA	1946892239
SNP_P4_98112_31670790	NC_021166.1	Ca_kabuli_chr07	31670790	CC	TT	1946892240
SNP_P4_98113_31683755	NC_021166.1	Ca_kabuli_chr07	31683755	CC	AA	1946892242
SNP_P4_98114_31683759	NC_021166.1	Ca_kabuli_chr07	31683759	TT	AA	1946892244
SNP_P4_98115_31685386	NC_021166.1	Ca_kabuli_chr07	31685386	AA	TT	1946892246
SNP_P4_98116_31696431	NC_021166.1	Ca_kabuli_chr07	31696431	GG	AA	1946892248
SNP_P4_98117_31700508	NC_021166.1	Ca_kabuli_chr07	31700508	AA	TT	1946892250
SNP_P4_98118_31722740	NC_021166.1	Ca_kabuli_chr07	31722740	TT	CC	1946892252
SNP_P4_98119_31728629	NC_021166.1	Ca_kabuli_chr07	31728629	TT	CC	1946892254
SNP_P4_98120_31745474	NC_021166.1	Ca_kabuli_chr07	31745474	AA	GG	1946892256
SNP_P4_98121_31745600	NC_021166.1	Ca_kabuli_chr07	31745600	GG	AA	1946892258
SNP_P4_98122_31745713	NC_021166.1	Ca_kabuli_chr07	31745713	AA	GG	1946892260
SNP_P4_98124_31746065	NC_021166.1	Ca_kabuli_chr07	31746065	GG	CC	1946892263
SNP_P4_98125_31746103	NC_021166.1	Ca_kabuli_chr07	31746103	AA	TT	1946892265
SNP_P4_98126_31746106	NC_021166.1	Ca_kabuli_chr07	31746106	TT	AA	1946892267
SNP_P4_98127_31746108	NC_021166.1	Ca_kabuli_chr07	31746108	AA	TT	1946892269
SNP_P4_98128_31746123	NC_021166.1	Ca_kabuli_chr07	31746123	GG	AA	1946892271
SNP_P4_98129_31809388	NC_021166.1	Ca_kabuli_chr07	31809388	CC	AA	1946892273
SNP_P4_98130_31813079	NC_021166.1	Ca_kabuli_chr07	31813079	AA	GG	1946892275
SNP_P4_98131_31819211	NC_021166.1	Ca_kabuli_chr07	31819211	AA	CC	1946892277
SNP_P4_98132_31838269	NC_021166.1	Ca_kabuli_chr07	31838269	TT	GG	1946892280
SNP_P4_98133_31852085	NC_021166.1	Ca_kabuli_chr07	31852085	GG	AA	1946892282
SNP_P4_98134_31915945	NC_021166.1	Ca_kabuli_chr07	31915945	GG	TT	1946892284
SNP_P4_98135_31915954	NC_021166.1	Ca_kabuli_chr07	31915954	GG	AA	1946892286
SNP_P4_98136_31915973	NC_021166.1	Ca_kabuli_chr07	31915973	TT	GG	1946892288
SNP_P4_98137_31915982	NC_021166.1	Ca_kabuli_chr07	31915982	GG	AA	1946892290
SNP_P4_98138_31917245	NC_021166.1	Ca_kabuli_chr07	31917245	CC	TT	1946892292
SNP_P4_98139_31917297	NC_021166.1	Ca_kabuli_chr07	31917297	AA	TT	1946892294
SNP_P4_98140_31917305	NC_021166.1	Ca_kabuli_chr07	31917305	AA	CC	1946892296
SNP_P4_98141_31942799	NC_021166.1	Ca_kabuli_chr07	31942799	TT	AA	1946892298

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_98143_31968224	NC_021166.1	Ca_kabuli_chr07	31968224	TT	GG	1946892302
SNP_P4_98144_31968263	NC_021166.1	Ca_kabuli_chr07	31968263	TT	AA	1946892304
SNP_P4_98146_31984504	NC_021166.1	Ca_kabuli_chr07	31984504	AA	TT	1946892306
SNP_P4_98147_31984511	NC_021166.1	Ca_kabuli_chr07	31984511	GG	TT	1946892308
SNP_P4_98148_31999008	NC_021166.1	Ca_kabuli_chr07	31999008	CC	TT	1946892310
SNP_P4_98149_32026491	NC_021166.1	Ca_kabuli_chr07	32026491	GG	AA	1946892312
SNP_P4_98150_32030566	NC_021166.1	Ca_kabuli_chr07	32030566	CC	TT	1946892313
SNP_P4_98151_32035060	NC_021166.1	Ca_kabuli_chr07	32035060	AA	GG	1946892315
SNP_P4_98152_32035061	NC_021166.1	Ca_kabuli_chr07	32035061	GG	AA	1946892317
SNP_P4_98153_32047496	NC_021166.1	Ca_kabuli_chr07	32047496	GG	TT	1946892319
SNP_P4_98154_32066332	NC_021166.1	Ca_kabuli_chr07	32066332	GG	AA	1946892321
SNP_P4_98155_32102178	NC_021166.1	Ca_kabuli_chr07	32102178	AA	GG	1946892323
SNP_P4_98156_32102470	NC_021166.1	Ca_kabuli_chr07	32102470	TT	CC	1946892325
SNP_P4_98157_32102496	NC_021166.1	Ca_kabuli_chr07	32102496	GG	TT	1946892327
SNP_P4_98158_32102624	NC_021166.1	Ca_kabuli_chr07	32102624	CC	TT	1946892329
SNP_P4_98159_32102625	NC_021166.1	Ca_kabuli_chr07	32102625	AA	GG	1946892331
SNP_P4_98160_32102767	NC_021166.1	Ca_kabuli_chr07	32102767	AA	GG	1946892333
SNP_P4_98162_32104301	NC_021166.1	Ca_kabuli_chr07	32104301	TT	CC	1946892335
SNP_P4_98163_32114401	NC_021166.1	Ca_kabuli_chr07	32114401	TT	GG	1946892337
SNP_P4_98164_32137901	NC_021166.1	Ca_kabuli_chr07	32137901	GG	TT	1946892339
SNP_P4_98165_32137915	NC_021166.1	Ca_kabuli_chr07	32137915	CC	TT	1946892341
SNP_P4_98166_32137923	NC_021166.1	Ca_kabuli_chr07	32137923	AA	GG	1946892343
SNP_P4_98167_32137935	NC_021166.1	Ca_kabuli_chr07	32137935	GG	TT	1946892345
SNP_P4_98168_32156962	NC_021166.1	Ca_kabuli_chr07	32156962	AA	GG	1946892347
SNP_P4_98170_32204673	NC_021166.1	Ca_kabuli_chr07	32204673	GG	AA	1946892349
SNP_P4_98172_32231171	NC_021166.1	Ca_kabuli_chr07	32231171	TT	AA	1946892351
SNP_P4_98173_32231175	NC_021166.1	Ca_kabuli_chr07	32231175	TT	CC	1946892352
SNP_P4_98174_32231177	NC_021166.1	Ca_kabuli_chr07	32231177	CC	GG	1946892354
SNP_P4_98175_32231178	NC_021166.1	Ca_kabuli_chr07	32231178	GG	AA	1946892356
SNP_P4_98176_32231205	NC_021166.1	Ca_kabuli_chr07	32231205	AA	TT	1946892358
SNP_P4_98177_32295822	NC_021166.1	Ca_kabuli_chr07	32295822	CC	TT	1946892360
SNP_P4_98178_32337594	NC_021166.1	Ca_kabuli_chr07	32337594	CC	TT	1946892362
SNP_P4_98179_32355222	NC_021166.1	Ca_kabuli_chr07	32355222	CC	AA	1946892364
SNP_P4_98180_32355227	NC_021166.1	Ca_kabuli_chr07	32355227	AA	CC	1946892366
SNP_P4_98181_32357400	NC_021166.1	Ca_kabuli_chr07	32357400	CC	TT	1946892368
SNP_P4_98182_32357402	NC_021166.1	Ca_kabuli_chr07	32357402	GG	CC	1946892370
SNP_P4_98183_32357672	NC_021166.1	Ca_kabuli_chr07	32357672	TT	GG	1946892372
SNP_P4_98184_32357684	NC_021166.1	Ca_kabuli_chr07	32357684	CC	AA	1946892374
SNP_P4_98185_32357857	NC_021166.1	Ca_kabuli_chr07	32357857	AA	GG	1946892376
SNP_P4_98186_32358064	NC_021166.1	Ca_kabuli_chr07	32358064	GG	AA	1946892378
SNP_P4_98187_32358072	NC_021166.1	Ca_kabuli_chr07	32358072	TT	CC	1946892379

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_98190_32358488	NC_021166.1	Ca_kabuli_chr07	32358488	TT	CC	1946892383
SNP_P4_98191_32359440	NC_021166.1	Ca_kabuli_chr07	32359440	AA	GG	1946892385
SNP_P4_98192_32359461	NC_021166.1	Ca_kabuli_chr07	32359461	TT	GG	1946892387
SNP_P4_98193_32359491	NC_021166.1	Ca_kabuli_chr07	32359491	TT	CC	1946892389
SNP_P4_98194_32359497	NC_021166.1	Ca_kabuli_chr07	32359497	GG	AA	1946892391
SNP_P4_98195_32359509	NC_021166.1	Ca_kabuli_chr07	32359509	AA	GG	1946892393
SNP_P4_98196_32359512	NC_021166.1	Ca_kabuli_chr07	32359512	CC	TT	1946892395
SNP_P4_98197_32359521	NC_021166.1	Ca_kabuli_chr07	32359521	CC	TT	1946892397
SNP_P4_98199_32418722	NC_021166.1	Ca_kabuli_chr07	32418722	TT	GG	1946892399
SNP_P4_98201_32425923	NC_021166.1	Ca_kabuli_chr07	32425923	TT	CC	1946892400
SNP_P4_98202_32429218	NC_021166.1	Ca_kabuli_chr07	32429218	AA	GG	1946892402
SNP_P4_98203_32431559	NC_021166.1	Ca_kabuli_chr07	32431559	GG	AA	1946892404
SNP_P4_98204_32434364	NC_021166.1	Ca_kabuli_chr07	32434364	TT	CC	1946892406
SNP_P4_98207_32455319	NC_021166.1	Ca_kabuli_chr07	32455319	TT	CC	1946892408
SNP_P4_98208_32455349	NC_021166.1	Ca_kabuli_chr07	32455349	AA	GG	1946892410
SNP_P4_98209_32455352	NC_021166.1	Ca_kabuli_chr07	32455352	AA	GG	1946892412
SNP_P4_98210_32455395	NC_021166.1	Ca_kabuli_chr07	32455395	TT	CC	1946892414
SNP_P4_98211_32461973	NC_021166.1	Ca_kabuli_chr07	32461973	AA	GG	1946892416
SNP_P4_98212_32462519	NC_021166.1	Ca_kabuli_chr07	32462519	AA	GG	1946892418
SNP_P4_98214_32484468	NC_021166.1	Ca_kabuli_chr07	32484468	CC	TT	1946892420
SNP_P4_98215_32490545	NC_021166.1	Ca_kabuli_chr07	32490545	GG	CC	1946892422
SNP_P4_98216_32490547	NC_021166.1	Ca_kabuli_chr07	32490547	GG	AA	1946892424
SNP_P4_98217_32490764	NC_021166.1	Ca_kabuli_chr07	32490764	AA	CC	1946892426
SNP_P4_98218_32490770	NC_021166.1	Ca_kabuli_chr07	32490770	AA	GG	1946892428
SNP_P4_98219_32490942	NC_021166.1	Ca_kabuli_chr07	32490942	TT	CC	1946892430
SNP_P4_98220_32491112	NC_021166.1	Ca_kabuli_chr07	32491112	AA	CC	1946892432
SNP_P4_98221_32492796	NC_021166.1	Ca_kabuli_chr07	32492796	CC	TT	1946892434
SNP_P4_98222_32508063	NC_021166.1	Ca_kabuli_chr07	32508063	TT	CC	1946892435
SNP_P4_98223_32515131	NC_021166.1	Ca_kabuli_chr07	32515131	CC	GG	1946892437
SNP_P4_98225_32524266	NC_021166.1	Ca_kabuli_chr07	32524266	AA	TT	1946892439
SNP_P4_98226_32529360	NC_021166.1	Ca_kabuli_chr07	32529360	GG	AA	1946892441
SNP_P4_98227_32529371	NC_021166.1	Ca_kabuli_chr07	32529371	TT	CC	1946892443
SNP_P4_98228_32534512	NC_021166.1	Ca_kabuli_chr07	32534512	TT	GG	1946892445
SNP_P4_98229_32534546	NC_021166.1	Ca_kabuli_chr07	32534546	AA	TT	1946892447
SNP_P4_98230_32534574	NC_021166.1	Ca_kabuli_chr07	32534574	TT	AA	1946892449
SNP_P4_98231_32534576	NC_021166.1	Ca_kabuli_chr07	32534576	TT	GG	1946892451
SNP_P4_98232_32536663	NC_021166.1	Ca_kabuli_chr07	32536663	AA	TT	1946892453
SNP_P4_98233_32567949	NC_021166.1	Ca_kabuli_chr07	32567949	AA	CC	1946892455
SNP_P4_98234_32568362	NC_021166.1	Ca_kabuli_chr07	32568362	AA	GG	1946892457
SNP_P4_98236_32572788	NC_021166.1	Ca_kabuli_chr07	32572788	CC	TT	1946892459
SNP_P4_98237_32578844	NC_021166.1	Ca_kabuli_chr07	32578844	CC	GG	1946892461

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_98241_32596357	NC_021166.1	Ca_kabuli_chr07	32596357	TT	AA	1946892465
SNP_P4_98244_32601682	NC_021166.1	Ca_kabuli_chr07	32601682	GG	AA	1946892467
SNP_P4_98245_32601717	NC_021166.1	Ca_kabuli_chr07	32601717	AA	GG	1946892469
SNP_P4_98246_32601752	NC_021166.1	Ca_kabuli_chr07	32601752	AA	GG	1946892471
SNP_P4_98247_32606876	NC_021166.1	Ca_kabuli_chr07	32606876	TT	AA	1946892473
SNP_P4_98248_32613857	NC_021166.1	Ca_kabuli_chr07	32613857	AA	GG	1946892475
SNP_P4_98250_32613889	NC_021166.1	Ca_kabuli_chr07	32613889	TT	AA	1946892477
SNP_P4_98251_32613892	NC_021166.1	Ca_kabuli_chr07	32613892	GG	AA	1946892479
SNP_P4_98252_32614128	NC_021166.1	Ca_kabuli_chr07	32614128	TT	GG	1946892481
SNP_P4_98253_32614132	NC_021166.1	Ca_kabuli_chr07	32614132	AA	GG	1946892483
SNP_P4_98254_32614135	NC_021166.1	Ca_kabuli_chr07	32614135	CC	TT	1946892486
SNP_P4_98255_32614153	NC_021166.1	Ca_kabuli_chr07	32614153	TT	AA	1946892488
SNP_P4_98256_32614174	NC_021166.1	Ca_kabuli_chr07	32614174	CC	AA	1946892489
SNP_P4_98258_32614263	NC_021166.1	Ca_kabuli_chr07	32614263	GG	TT	1946892491
SNP_P4_98259_32620962	NC_021166.1	Ca_kabuli_chr07	32620962	AA	TT	1946892493
SNP_P4_98260_32628591	NC_021166.1	Ca_kabuli_chr07	32628591	TT	CC	1946892495
SNP_P4_98261_32632415	NC_021166.1	Ca_kabuli_chr07	32632415	GG	AA	1946892497
SNP_P4_98262_32632959	NC_021166.1	Ca_kabuli_chr07	32632959	TT	GG	1946892499
SNP_P4_98263_32633865	NC_021166.1	Ca_kabuli_chr07	32633865	GG	CC	1946892501
SNP_P4_98264_32635134	NC_021166.1	Ca_kabuli_chr07	32635134	CC	TT	1946892503
SNP_P4_98265_32635356	NC_021166.1	Ca_kabuli_chr07	32635356	GG	TT	1946892505
SNP_P4_98266_32635668	NC_021166.1	Ca_kabuli_chr07	32635668	AA	TT	1946892507
SNP_P4_98267_32635829	NC_021166.1	Ca_kabuli_chr07	32635829	AA	CC	1946892509
SNP_P4_98268_32635848	NC_021166.1	Ca_kabuli_chr07	32635848	GG	TT	1946892511
SNP_P4_98269_32636223	NC_021166.1	Ca_kabuli_chr07	32636223	TT	AA	1946892513
SNP_P4_98270_32636988	NC_021166.1	Ca_kabuli_chr07	32636988	CC	AA	1946892515
SNP_P4_98271_32638645	NC_021166.1	Ca_kabuli_chr07	32638645	TT	AA	1946892517
SNP_P4_98272_32639812	NC_021166.1	Ca_kabuli_chr07	32639812	CC	TT	1946892519
SNP_P4_98273_32639845	NC_021166.1	Ca_kabuli_chr07	32639845	AA	TT	1946892521
SNP_P4_98274_32639858	NC_021166.1	Ca_kabuli_chr07	32639858	AA	GG	1946892523
SNP_P4_98275_32639871	NC_021166.1	Ca_kabuli_chr07	32639871	AA	GG	1946892525
SNP_P4_98277_32649733	NC_021166.1	Ca_kabuli_chr07	32649733	GG	AA	1946892527
SNP_P4_98279_32650629	NC_021166.1	Ca_kabuli_chr07	32650629	GG	AA	1946892529
SNP_P4_98280_32653178	NC_021166.1	Ca_kabuli_chr07	32653178	CC	TT	1946892531
SNP_P4_98282_32653204	NC_021166.1	Ca_kabuli_chr07	32653204	GG	AA	1946892533
SNP_P4_98283_32654139	NC_021166.1	Ca_kabuli_chr07	32654139	AA	CC	1946892535
SNP_P4_98284_32654357	NC_021166.1	Ca_kabuli_chr07	32654357	AA	TT	1946892536
SNP_P4_98285_32654825	NC_021166.1	Ca_kabuli_chr07	32654825	GG	AA	1946892538
SNP_P4_98289_32656090	NC_021166.1	Ca_kabuli_chr07	32656090	TT	CC	1946892540
SNP_P4_98290_32658337	NC_021166.1	Ca_kabuli_chr07	32658337	GG	AA	1946892542
SNP_P4_98291_32671458	NC_021166.1	Ca_kabuli_chr07	32671458	TT	CC	1946892544

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_98294_32683204	NC_021166.1	Ca_kabuli_chr07	32683204	AA	GG	1946892548
SNP_P4_98295_32683206	NC_021166.1	Ca_kabuli_chr07	32683206	GG	AA	1946892550
SNP_P4_98296_32683208	NC_021166.1	Ca_kabuli_chr07	32683208	AA	TT	1946892552
SNP_P4_98297_32683213	NC_021166.1	Ca_kabuli_chr07	32683213	CC	AA	1946892554
SNP_P4_98298_32692609	NC_021166.1	Ca_kabuli_chr07	32692609	AA	GG	1946892556
SNP_P4_98299_32693386	NC_021166.1	Ca_kabuli_chr07	32693386	AA	TT	1946892558
SNP_P4_98300_32693444	NC_021166.1	Ca_kabuli_chr07	32693444	TT	CC	1946892560
SNP_P4_98301_32694518	NC_021166.1	Ca_kabuli_chr07	32694518	TT	CC	1946892561
SNP_P4_98302_32694966	NC_021166.1	Ca_kabuli_chr07	32694966	CC	TT	1946892563
SNP_P4_98303_32694992	NC_021166.1	Ca_kabuli_chr07	32694992	TT	CC	1946892565
SNP_P4_98304_32694995	NC_021166.1	Ca_kabuli_chr07	32694995	GG	TT	1946892567
SNP_P4_98305_32694996	NC_021166.1	Ca_kabuli_chr07	32694996	AA	GG	1946892569
SNP_P4_98306_32695018	NC_021166.1	Ca_kabuli_chr07	32695018	CC	TT	1946892571
SNP_P4_98307_32704655	NC_021166.1	Ca_kabuli_chr07	32704655	AA	GG	1946892573
SNP_P4_98308_32704674	NC_021166.1	Ca_kabuli_chr07	32704674	GG	AA	1946892575
SNP_P4_98309_32712153	NC_021166.1	Ca_kabuli_chr07	32712153	GG	AA	1946892577
SNP_P4_98310_32805188	NC_021166.1	Ca_kabuli_chr07	32805188	CC	GG	1946892579
SNP_P4_98311_32836007	NC_021166.1	Ca_kabuli_chr07	32836007	TT	GG	1946892581
SNP_P4_98312_32852068	NC_021166.1	Ca_kabuli_chr07	32852068	AA	TT	1946892583
SNP_P4_98313_32860360	NC_021166.1	Ca_kabuli_chr07	32860360	AA	GG	1946892585
SNP_P4_98314_32860363	NC_021166.1	Ca_kabuli_chr07	32860363	AA	TT	1946892587
SNP_P4_98315_32862219	NC_021166.1	Ca_kabuli_chr07	32862219	AA	TT	1946892589
SNP_P4_98316_32870863	NC_021166.1	Ca_kabuli_chr07	32870863	AA	TT	1946892591
SNP_P4_98317_32870867	NC_021166.1	Ca_kabuli_chr07	32870867	TT	GG	1946892593
SNP_P4_98318_32870870	NC_021166.1	Ca_kabuli_chr07	32870870	AA	TT	1946892595
SNP_P4_98320_32891007	NC_021166.1	Ca_kabuli_chr07	32891007	CC	TT	1946892597
SNP_P4_98321_32896776	NC_021166.1	Ca_kabuli_chr07	32896776	GG	AA	1946892599
SNP_P4_98323_32904234	NC_021166.1	Ca_kabuli_chr07	32904234	TT	CC	1946892601
SNP_P4_98324_32904288	NC_021166.1	Ca_kabuli_chr07	32904288	AA	GG	1946892603
SNP_P4_98325_32921603	NC_021166.1	Ca_kabuli_chr07	32921603	AA	GG	1946892604
SNP_P4_98326_32939947	NC_021166.1	Ca_kabuli_chr07	32939947	GG	AA	1946892606
SNP_P4_98327_32968632	NC_021166.1	Ca_kabuli_chr07	32968632	AA	GG	1946892608
SNP_P4_98329_32970257	NC_021166.1	Ca_kabuli_chr07	32970257	TT	CC	1946892611
SNP_P4_98330_32970259	NC_021166.1	Ca_kabuli_chr07	32970259	TT	CC	1946892612
SNP_P4_98331_32972327	NC_021166.1	Ca_kabuli_chr07	32972327	CC	AA	1946892614
SNP_P4_98332_32974415	NC_021166.1	Ca_kabuli_chr07	32974415	AA	GG	1946892616
SNP_P4_98333_32974450	NC_021166.1	Ca_kabuli_chr07	32974450	AA	GG	1946892618
SNP_P4_98334_32974726	NC_021166.1	Ca_kabuli_chr07	32974726	GG	AA	1946892620
SNP_P4_98336_33017461	NC_021166.1	Ca_kabuli_chr07	33017461	GG	AA	1946892623
SNP_P4_98337_33044855	NC_021166.1	Ca_kabuli_chr07	33044855	TT	CC	1946892625
SNP_P4_98338_33045035	NC_021166.1	Ca_kabuli_chr07	33045035	TT	CC	1946892627

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_98340_33045110	NC_021166.1	Ca_kabuli_chr07	33045110	AA	GG	1946892631
SNP_P4_98341_33045188	NC_021166.1	Ca_kabuli_chr07	33045188	AA	CC	1946892633
SNP_P4_98342_33045908	NC_021166.1	Ca_kabuli_chr07	33045908	TT	CC	1946892635
SNP_P4_98343_33045938	NC_021166.1	Ca_kabuli_chr07	33045938	TT	AA	1946892637
SNP_P4_98344_33045939	NC_021166.1	Ca_kabuli_chr07	33045939	TT	AA	1946892639
SNP_P4_98345_33045955	NC_021166.1	Ca_kabuli_chr07	33045955	GG	TT	1946892641
SNP_P4_98346_33049345	NC_021166.1	Ca_kabuli_chr07	33049345	AA	CC	1946892643
SNP_P4_98348_33049427	NC_021166.1	Ca_kabuli_chr07	33049427	GG	AA	1946892645
SNP_P4_98349_33049636	NC_021166.1	Ca_kabuli_chr07	33049636	AA	TT	1946892647
SNP_P4_98350_33049734	NC_021166.1	Ca_kabuli_chr07	33049734	CC	GG	1946892649
SNP_P4_98351_33049980	NC_021166.1	Ca_kabuli_chr07	33049980	GG	CC	1946892651
SNP_P4_98352_33049997	NC_021166.1	Ca_kabuli_chr07	33049997	AA	GG	1946892653
SNP_P4_98353_33050004	NC_021166.1	Ca_kabuli_chr07	33050004	AA	GG	1946892655
SNP_P4_98354_33050238	NC_021166.1	Ca_kabuli_chr07	33050238	CC	TT	1946892657
SNP_P4_98355_33050502	NC_021166.1	Ca_kabuli_chr07	33050502	AA	TT	1946892659
SNP_P4_98356_33050707	NC_021166.1	Ca_kabuli_chr07	33050707	AA	GG	1946892661
SNP_P4_98357_33050731	NC_021166.1	Ca_kabuli_chr07	33050731	CC	TT	1946892663
SNP_P4_98358_33051037	NC_021166.1	Ca_kabuli_chr07	33051037	TT	AA	1946892665
SNP_P4_98360_33054004	NC_021166.1	Ca_kabuli_chr07	33054004	CC	GG	1946892667
SNP_P4_98361_33054054	NC_021166.1	Ca_kabuli_chr07	33054054	GG	CC	1946892669
SNP_P4_98362_33054085	NC_021166.1	Ca_kabuli_chr07	33054085	CC	AA	1946892671
SNP_P4_98363_33054217	NC_021166.1	Ca_kabuli_chr07	33054217	AA	GG	1946892673
SNP_P4_98364_33054252	NC_021166.1	Ca_kabuli_chr07	33054252	AA	TT	1946892675
SNP_P4_98365_33054373	NC_021166.1	Ca_kabuli_chr07	33054373	TT	AA	1946892677
SNP_P4_98366_33054400	NC_021166.1	Ca_kabuli_chr07	33054400	AA	GG	1946892679
SNP_P4_98367_33054924	NC_021166.1	Ca_kabuli_chr07	33054924	AA	GG	1946892681
SNP_P4_98369_33056614	NC_021166.1	Ca_kabuli_chr07	33056614	TT	CC	1946892683
SNP_P4_98371_33057268	NC_021166.1	Ca_kabuli_chr07	33057268	TT	GG	1946892685
SNP_P4_98372_33057300	NC_021166.1	Ca_kabuli_chr07	33057300	CC	AA	1946892687
SNP_P4_98373_33058477	NC_021166.1	Ca_kabuli_chr07	33058477	TT	AA	1946892689
SNP_P4_98374_33058497	NC_021166.1	Ca_kabuli_chr07	33058497	GG	AA	1946892690
SNP_P4_98375_33059275	NC_021166.1	Ca_kabuli_chr07	33059275	TT	CC	1946892691
SNP_P4_98376_33059322	NC_021166.1	Ca_kabuli_chr07	33059322	TT	AA	1946892692
SNP_P4_98377_33059344	NC_021166.1	Ca_kabuli_chr07	33059344	GG	TT	1946892693
SNP_P4_98378_33059402	NC_021166.1	Ca_kabuli_chr07	33059402	TT	CC	1946892694
SNP_P4_98379_33059410	NC_021166.1	Ca_kabuli_chr07	33059410	AA	GG	1946892696
SNP_P4_98380_33059563	NC_021166.1	Ca_kabuli_chr07	33059563	CC	AA	1946892698
SNP_P4_98381_33059574	NC_021166.1	Ca_kabuli_chr07	33059574	CC	AA	1946892700
SNP_P4_98382_33059619	NC_021166.1	Ca_kabuli_chr07	33059619	CC	AA	1946892702
SNP_P4_98383_33059738	NC_021166.1	Ca_kabuli_chr07	33059738	GG	AA	1946892704
SNP_P4_98384_33059768	NC_021166.1	Ca_kabuli_chr07	33059768	AA	CC	1946892706

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_98386_33059790	NC_021166.1	Ca_kabuli_chr07	33059790	GG	TT	1946892710
SNP_P4_98387_33059815	NC_021166.1	Ca_kabuli_chr07	33059815	GG	TT	1946892712
SNP_P4_98388_33059829	NC_021166.1	Ca_kabuli_chr07	33059829	GG	AA	1946892714
SNP_P4_98390_33060207	NC_021166.1	Ca_kabuli_chr07	33060207	GG	TT	1946892717
SNP_P4_98392_33060249	NC_021166.1	Ca_kabuli_chr07	33060249	TT	CC	1946892719
SNP_P4_98393_33060585	NC_021166.1	Ca_kabuli_chr07	33060585	TT	AA	1946892721
SNP_P4_98394_33060597	NC_021166.1	Ca_kabuli_chr07	33060597	AA	GG	1946892723
SNP_P4_98395_33061254	NC_021166.1	Ca_kabuli_chr07	33061254	TT	CC	1946892725
SNP_P4_98396_33061547	NC_021166.1	Ca_kabuli_chr07	33061547	AA	GG	1946892727
SNP_P4_98397_33061651	NC_021166.1	Ca_kabuli_chr07	33061651	AA	TT	1946892729
SNP_P4_98398_33061912	NC_021166.1	Ca_kabuli_chr07	33061912	CC	AA	1946892731
SNP_P4_98400_33062226	NC_021166.1	Ca_kabuli_chr07	33062226	TT	GG	1946892733
SNP_P4_98401_33062886	NC_021166.1	Ca_kabuli_chr07	33062886	CC	TT	1946892735
SNP_P4_98402_33062907	NC_021166.1	Ca_kabuli_chr07	33062907	CC	TT	1946892737
SNP_P4_98403_33063638	NC_021166.1	Ca_kabuli_chr07	33063638	TT	CC	1946892739
SNP_P4_98404_33063641	NC_021166.1	Ca_kabuli_chr07	33063641	TT	CC	1946892741
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SNP_P4_98406_33063794	NC_021166.1	Ca_kabuli_chr07	33063794	GG	AA	1946892745
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SNP_P4_98409_33064234	NC_021166.1	Ca_kabuli_chr07	33064234	CC	TT	1946892751
SNP_P4_98410_33064533	NC_021166.1	Ca_kabuli_chr07	33064533	GG	AA	1946892753
SNP_P4_98411_33064536	NC_021166.1	Ca_kabuli_chr07	33064536	TT	AA	1946892755
SNP_P4_98412_33065334	NC_021166.1	Ca_kabuli_chr07	33065334	AA	GG	1946892757
SNP_P4_98413_33065357	NC_021166.1	Ca_kabuli_chr07	33065357	CC	AA	1946892759
SNP_P4_98414_33065375	NC_021166.1	Ca_kabuli_chr07	33065375	CC	TT	1946892761
SNP_P4_98415_33065376	NC_021166.1	Ca_kabuli_chr07	33065376	GG	AA	1946892763
SNP_P4_98416_33066108	NC_021166.1	Ca_kabuli_chr07	33066108	CC	TT	1946892765
SNP_P4_98417_33066193	NC_021166.1	Ca_kabuli_chr07	33066193	TT	AA	1946892767
SNP_P4_98418_33066375	NC_021166.1	Ca_kabuli_chr07	33066375	TT	GG	1946892770
SNP_P4_98419_33066631	NC_021166.1	Ca_kabuli_chr07	33066631	AA	GG	1946892772
SNP_P4_98420_33066722	NC_021166.1	Ca_kabuli_chr07	33066722	TT	CC	1946892774
SNP_P4_98421_33066824	NC_021166.1	Ca_kabuli_chr07	33066824	TT	GG	1946892776
SNP_P4_98422_33066831	NC_021166.1	Ca_kabuli_chr07	33066831	AA	GG	1946892778
SNP_P4_98423_33066834	NC_021166.1	Ca_kabuli_chr07	33066834	GG	AA	1946892780
SNP_P4_98424_33066861	NC_021166.1	Ca_kabuli_chr07	33066861	GG	AA	1946892782
SNP_P4_98425_33066877	NC_021166.1	Ca_kabuli_chr07	33066877	CC	TT	1946892784
SNP_P4_98426_33066911	NC_021166.1	Ca_kabuli_chr07	33066911	GG	AA	1946892786
SNP_P4_98427_33066921	NC_021166.1	Ca_kabuli_chr07	33066921	GG	AA	1946892788
SNP_P4_98428_33066961	NC_021166.1	Ca_kabuli_chr07	33066961	CC	TT	1946892790
SNP_P4_98429_33067033	NC_021166.1	Ca_kabuli_chr07	33067033	GG	AA	1946892792

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_98431_33067366	NC_021166.1	Ca_kabuli_chr07	33067366	TT	CC	1946892796
SNP_P4_98432_33067399	NC_021166.1	Ca_kabuli_chr07	33067399	AA	GG	1946892798
SNP_P4_98433_33067879	NC_021166.1	Ca_kabuli_chr07	33067879	AA	CC	1946892800
SNP_P4_98434_33067955	NC_021166.1	Ca_kabuli_chr07	33067955	AA	GG	1946892802
SNP_P4_98435_33068101	NC_021166.1	Ca_kabuli_chr07	33068101	CC	TT	1946892804
SNP_P4_98436_33071099	NC_021166.1	Ca_kabuli_chr07	33071099	GG	TT	1946892806
SNP_P4_98437_33071319	NC_021166.1	Ca_kabuli_chr07	33071319	CC	TT	1946892808
SNP_P4_98438_33071344	NC_021166.1	Ca_kabuli_chr07	33071344	CC	TT	1946892810
SNP_P4_98439_33071396	NC_021166.1	Ca_kabuli_chr07	33071396	TT	AA	1946892812
SNP_P4_98440_33071929	NC_021166.1	Ca_kabuli_chr07	33071929	GG	AA	1946892814
SNP_P4_98441_33072640	NC_021166.1	Ca_kabuli_chr07	33072640	GG	AA	1946892816
SNP_P4_98442_33073022	NC_021166.1	Ca_kabuli_chr07	33073022	GG	AA	1946892818
SNP_P4_98443_33073052	NC_021166.1	Ca_kabuli_chr07	33073052	AA	GG	1946892820
SNP_P4_98444_33073063	NC_021166.1	Ca_kabuli_chr07	33073063	CC	AA	1946892822
SNP_P4_98445_33073670	NC_021166.1	Ca_kabuli_chr07	33073670	AA	GG	1946892824
SNP_P4_98446_33075442	NC_021166.1	Ca_kabuli_chr07	33075442	GG	AA	1946892826
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SNP_P4_98448_33103541	NC_021166.1	Ca_kabuli_chr07	33103541	GG	TT	1946892830
SNP_P4_98449_33103910	NC_021166.1	Ca_kabuli_chr07	33103910	CC	TT	1946892832
SNP_P4_98450_33103916	NC_021166.1	Ca_kabuli_chr07	33103916	TT	CC	1946892834
SNP_P4_98451_33104286	NC_021166.1	Ca_kabuli_chr07	33104286	CC	TT	1946892836
SNP_P4_98452_33104325	NC_021166.1	Ca_kabuli_chr07	33104325	GG	AA	1946892838
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SNP_P4_98455_33107278	NC_021166.1	Ca_kabuli_chr07	33107278	AA	GG	1946892844
SNP_P4_98456_33107281	NC_021166.1	Ca_kabuli_chr07	33107281	TT	CC	1946892846
SNP_P4_98457_33107333	NC_021166.1	Ca_kabuli_chr07	33107333	CC	TT	1946892848
SNP_P4_98458_33107334	NC_021166.1	Ca_kabuli_chr07	33107334	GG	AA	1946892850
SNP_P4_98459_33107463	NC_021166.1	Ca_kabuli_chr07	33107463	TT	CC	1946892852
SNP_P4_98460_33107498	NC_021166.1	Ca_kabuli_chr07	33107498	CC	TT	1946892854
SNP_P4_98461_33108999	NC_021166.1	Ca_kabuli_chr07	33108999	TT	GG	1946892856
SNP_P4_98462_33109025	NC_021166.1	Ca_kabuli_chr07	33109025	CC	TT	1946892858
SNP_P4_98463_33109031	NC_021166.1	Ca_kabuli_chr07	33109031	GG	AA	1946892860
SNP_P4_98464_33109073	NC_021166.1	Ca_kabuli_chr07	33109073	CC	AA	1946892862
SNP_P4_98465_33109226	NC_021166.1	Ca_kabuli_chr07	33109226	AA	TT	1946892865
SNP_P4_98466_33111829	NC_021166.1	Ca_kabuli_chr07	33111829	AA	TT	1946892867
SNP_P4_98467_33112090	NC_021166.1	Ca_kabuli_chr07	33112090	CC	AA	1946892869
SNP_P4_98468_33112123	NC_021166.1	Ca_kabuli_chr07	33112123	AA	GG	1946892871
SNP_P4_98469_33112185	NC_021166.1	Ca_kabuli_chr07	33112185	GG	AA	1946892874
SNP_P4_98470_33113027	NC_021166.1	Ca_kabuli_chr07	33113027	GG	AA	1946892876
SNP_P4_98471_33113031	NC_021166.1	Ca_kabuli_chr07	33113031	AA	CC	1946892878

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_98474_33115488	NC_021166.1	Ca_kabuli_chr07	33115488	GG	CC	1946892884
SNP_P4_98475_33115640	NC_021166.1	Ca_kabuli_chr07	33115640	CC	TT	1946892886
SNP_P4_98476_33117176	NC_021166.1	Ca_kabuli_chr07	33117176	CC	TT	1946892888
SNP_P4_98477_33117179	NC_021166.1	Ca_kabuli_chr07	33117179	TT	GG	1946892890
SNP_P4_98478_33118327	NC_021166.1	Ca_kabuli_chr07	33118327	CC	GG	1946892892
SNP_P4_98479_33118352	NC_021166.1	Ca_kabuli_chr07	33118352	CC	AA	1946892894
SNP_P4_98480_33118585	NC_021166.1	Ca_kabuli_chr07	33118585	CC	TT	1946892896
SNP_P4_98481_33118975	NC_021166.1	Ca_kabuli_chr07	33118975	AA	TT	1946892898
SNP_P4_98482_33119885	NC_021166.1	Ca_kabuli_chr07	33119885	GG	AA	1946892900
SNP_P4_98483_33123683	NC_021166.1	Ca_kabuli_chr07	33123683	AA	CC	1946892902
SNP_P4_98484_33123691	NC_021166.1	Ca_kabuli_chr07	33123691	CC	TT	1946892904
SNP_P4_98485_33124438	NC_021166.1	Ca_kabuli_chr07	33124438	AA	TT	1946892906
SNP_P4_98486_33124713	NC_021166.1	Ca_kabuli_chr07	33124713	GG	AA	1946892908
SNP_P4_98487_33125592	NC_021166.1	Ca_kabuli_chr07	33125592	TT	CC	1946892910
SNP_P4_98488_33125613	NC_021166.1	Ca_kabuli_chr07	33125613	CC	AA	1946892912
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SNP_P4_98503_33134151	NC_021166.1	Ca_kabuli_chr07	33134151	AA	CC	1946892939
SNP_P4_98504_33134179	NC_021166.1	Ca_kabuli_chr07	33134179	CC	TT	1946892941
SNP_P4_98505_33136079	NC_021166.1	Ca_kabuli_chr07	33136079	GG	AA	1946892943
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SNP_P4_98509_33138190	NC_021166.1	Ca_kabuli_chr07	33138190	AA	GG	1946892951
SNP_P4_98510_33138239	NC_021166.1	Ca_kabuli_chr07	33138239	CC	TT	1946892953
SNP_P4_98511_33142523	NC_021166.1	Ca_kabuli_chr07	33142523	CC	TT	1946892955
SNP_P4_98512_33142701	NC_021166.1	Ca_kabuli_chr07	33142701	GG	AA	1946892957
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SNP_P4_98514_33143206	NC_021166.1	Ca_kabuli_chr07	33143206	CC	TT	1946892961
SNP_P4_98515_33144321	NC_021166.1	Ca_kabuli_chr07	33144321	GG	AA	1946892963

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_98518_33146281	NC_021166.1	Ca_kabuli_chr07	33146281	CC	TT	1946892969
SNP_P4_98519_33146284	NC_021166.1	Ca_kabuli_chr07	33146284	AA	GG	1946892971
SNP_P4_98520_33146317	NC_021166.1	Ca_kabuli_chr07	33146317	AA	TT	1946892973
SNP_P4_98521_33146336	NC_021166.1	Ca_kabuli_chr07	33146336	TT	CC	1946892975
SNP_P4_98522_33146574	NC_021166.1	Ca_kabuli_chr07	33146574	TT	AA	1946892977
SNP_P4_98523_33146583	NC_021166.1	Ca_kabuli_chr07	33146583	CC	AA	1946892979
SNP_P4_98524_33146592	NC_021166.1	Ca_kabuli_chr07	33146592	AA	GG	1946892981
SNP_P4_98525_33146651	NC_021166.1	Ca_kabuli_chr07	33146651	AA	GG	1946892983
SNP_P4_98526_33147215	NC_021166.1	Ca_kabuli_chr07	33147215	AA	GG	1946892985
SNP_P4_98527_33147436	NC_021166.1	Ca_kabuli_chr07	33147436	TT	CC	1946892987
SNP_P4_98528_33148768	NC_021166.1	Ca_kabuli_chr07	33148768	TT	CC	1946892989
SNP_P4_98529_33149613	NC_021166.1	Ca_kabuli_chr07	33149613	GG	AA	1946892991
SNP_P4_98530_33150081	NC_021166.1	Ca_kabuli_chr07	33150081	TT	CC	1946892993
SNP_P4_98531_33150340	NC_021166.1	Ca_kabuli_chr07	33150340	CC	AA	1946892995
SNP_P4_98532_33150523	NC_021166.1	Ca_kabuli_chr07	33150523	CC	TT	1946892997
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SNP_P4_98535_33153162	NC_021166.1	Ca_kabuli_chr07	33153162	GG	AA	1946893003
SNP_P4_98536_33155232	NC_021166.1	Ca_kabuli_chr07	33155232	AA	GG	1946893005
SNP_P4_98537_33155579	NC_021166.1	Ca_kabuli_chr07	33155579	TT	CC	1946893007
SNP_P4_98538_33156270	NC_021166.1	Ca_kabuli_chr07	33156270	AA	TT	1946893009
SNP_P4_98539_33156277	NC_021166.1	Ca_kabuli_chr07	33156277	AA	GG	1946893011
SNP_P4_98540_33157449	NC_021166.1	Ca_kabuli_chr07	33157449	CC	TT	1946893013
SNP_P4_98541_33157476	NC_021166.1	Ca_kabuli_chr07	33157476	GG	CC	1946893015
SNP_P4_98542_33157488	NC_021166.1	Ca_kabuli_chr07	33157488	TT	CC	1946893017
SNP_P4_98543_33157495	NC_021166.1	Ca_kabuli_chr07	33157495	TT	AA	1946893020
SNP_P4_98544_33157550	NC_021166.1	Ca_kabuli_chr07	33157550	AA	GG	1946893022
SNP_P4_98545_33157731	NC_021166.1	Ca_kabuli_chr07	33157731	TT	CC	1946893024
SNP_P4_98546_33157841	NC_021166.1	Ca_kabuli_chr07	33157841	AA	GG	1946893026
SNP_P4_98547_33158034	NC_021166.1	Ca_kabuli_chr07	33158034	CC	TT	1946893028
SNP_P4_98548_33158035	NC_021166.1	Ca_kabuli_chr07	33158035	CC	TT	1946893030
SNP_P4_98549_33158097	NC_021166.1	Ca_kabuli_chr07	33158097	GG	CC	1946893032
SNP_P4_98550_33158445	NC_021166.1	Ca_kabuli_chr07	33158445	GG	TT	1946893034
SNP_P4_98551_33158458	NC_021166.1	Ca_kabuli_chr07	33158458	CC	TT	1946893036
SNP_P4_98552_33159053	NC_021166.1	Ca_kabuli_chr07	33159053	AA	GG	1946893039
SNP_P4_98554_33159786	NC_021166.1	Ca_kabuli_chr07	33159786	GG	CC	1946893041
SNP_P4_98555_33159942	NC_021166.1	Ca_kabuli_chr07	33159942	AA	GG	1946893043
SNP_P4_98556_33159984	NC_021166.1	Ca_kabuli_chr07	33159984	TT	GG	1946893045
SNP_P4_98557_33159985	NC_021166.1	Ca_kabuli_chr07	33159985	GG	AA	1946893047
SNP_P4_98558_33159995	NC_021166.1	Ca_kabuli_chr07	33159995	TT	AA	1946893049

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_98559_33160245	NC_021166.1	Ca_kabuli_chr07	33160245	CC	AA	1946893051
SNP_P4_98560_33160620	NC_021166.1	Ca_kabuli_chr07	33160620	CC	GG	1946893053
SNP_P4_98561_33160906	NC_021166.1	Ca_kabuli_chr07	33160906	GG	AA	1946893055
SNP_P4_98564_33162862	NC_021166.1	Ca_kabuli_chr07	33162862	CC	TT	1946893057
SNP_P4_98565_33163367	NC_021166.1	Ca_kabuli_chr07	33163367	AA	TT	1946893060
SNP_P4_98566_33163406	NC_021166.1	Ca_kabuli_chr07	33163406	AA	TT	1946893062
SNP_P4_98567_33163669	NC_021166.1	Ca_kabuli_chr07	33163669	GG	AA	1946893064
SNP_P4_98568_33163699	NC_021166.1	Ca_kabuli_chr07	33163699	AA	CC	1946893066
SNP_P4_98569_33163709	NC_021166.1	Ca_kabuli_chr07	33163709	CC	TT	1946893068
SNP_P4_98570_33163748	NC_021166.1	Ca_kabuli_chr07	33163748	CC	AA	1946893070
SNP_P4_98571_33164343	NC_021166.1	Ca_kabuli_chr07	33164343	TT	CC	1946893072
SNP_P4_98572_33164344	NC_021166.1	Ca_kabuli_chr07	33164344	CC	AA	1946893074
SNP_P4_98573_33165858	NC_021166.1	Ca_kabuli_chr07	33165858	TT	CC	1946893076
SNP_P4_98574_33165884	NC_021166.1	Ca_kabuli_chr07	33165884	CC	AA	1946893078
SNP_P4_98575_33166552	NC_021166.1	Ca_kabuli_chr07	33166552	TT	CC	1946893080
SNP_P4_98576_33168307	NC_021166.1	Ca_kabuli_chr07	33168307	CC	TT	1946893082
SNP_P4_98577_33168331	NC_021166.1	Ca_kabuli_chr07	33168331	AA	CC	1946893084
SNP_P4_98578_33168394	NC_021166.1	Ca_kabuli_chr07	33168394	AA	GG	1946893086
SNP_P4_98579_33168545	NC_021166.1	Ca_kabuli_chr07	33168545	GG	AA	1946893088
SNP_P4_98580_33168601	NC_021166.1	Ca_kabuli_chr07	33168601	CC	AA	1946893091
SNP_P4_98581_33168610	NC_021166.1	Ca_kabuli_chr07	33168610	GG	AA	1946893093
SNP_P4_98582_33169317	NC_021166.1	Ca_kabuli_chr07	33169317	TT	AA	1946893095
SNP_P4_98584_33169534	NC_021166.1	Ca_kabuli_chr07	33169534	TT	CC	1946893097
SNP_P4_98585_33169535	NC_021166.1	Ca_kabuli_chr07	33169535	TT	AA	1946893099
SNP_P4_98586_33169576	NC_021166.1	Ca_kabuli_chr07	33169576	TT	AA	1946893101
SNP_P4_98587_33169952	NC_021166.1	Ca_kabuli_chr07	33169952	TT	CC	1946893103
SNP_P4_98588_33171236	NC_021166.1	Ca_kabuli_chr07	33171236	GG	TT	1946893105
SNP_P4_98589_33171355	NC_021166.1	Ca_kabuli_chr07	33171355	GG	AA	1946893107
SNP_P4_98590_33171359	NC_021166.1	Ca_kabuli_chr07	33171359	GG	AA	1946893109
SNP_P4_98591_33171371	NC_021166.1	Ca_kabuli_chr07	33171371	TT	CC	1946893111
SNP_P4_98592_33171443	NC_021166.1	Ca_kabuli_chr07	33171443	AA	TT	1946893113
SNP_P4_98594_33171810	NC_021166.1	Ca_kabuli_chr07	33171810	TT	CC	1946893115
SNP_P4_98595_33171834	NC_021166.1	Ca_kabuli_chr07	33171834	AA	GG	1946893117
SNP_P4_98596_33171949	NC_021166.1	Ca_kabuli_chr07	33171949	CC	TT	1946893119
SNP_P4_98597_33172111	NC_021166.1	Ca_kabuli_chr07	33172111	CC	GG	1946893121
SNP_P4_98598_33172136	NC_021166.1	Ca_kabuli_chr07	33172136	TT	CC	1946893123
SNP_P4_98599_33172141	NC_021166.1	Ca_kabuli_chr07	33172141	CC	TT	1946893125
SNP_P4_98600_33172847	NC_021166.1	Ca_kabuli_chr07	33172847	AA	TT	1946893127
SNP_P4_98601_33172861	NC_021166.1	Ca_kabuli_chr07	33172861	AA	GG	1946893129
SNP_P4_98602_33174267	NC_021166.1	Ca_kabuli_chr07	33174267	TT	GG	1946893131
SNP_P4_98603_33174940	NC_021166.1	Ca_kabuli_chr07	33174940	TT	CC	1946893133
SNP_P4_98604_33174981	NC_021166.1	Ca_kabuli_chr07	33174981	TT	GG	1946893135

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_98606_33175021	NC_021166.1	Ca_kabuli_chr07	33175021	TT	CC	1946893139
SNP_P4_98607_33175041	NC_021166.1	Ca_kabuli_chr07	33175041	AA	CC	1946893141
SNP_P4_98609_33175133	NC_021166.1	Ca_kabuli_chr07	33175133	TT	CC	1946893143
SNP_P4_98610_33177415	NC_021166.1	Ca_kabuli_chr07	33177415	GG	AA	1946893145
SNP_P4_98611_33177479	NC_021166.1	Ca_kabuli_chr07	33177479	CC	AA	1946893147
SNP_P4_98612_33177483	NC_021166.1	Ca_kabuli_chr07	33177483	AA	TT	1946893149
SNP_P4_98613_33177750	NC_021166.1	Ca_kabuli_chr07	33177750	GG	AA	1946893151
SNP_P4_98614_33177766	NC_021166.1	Ca_kabuli_chr07	33177766	TT	CC	1946893153
SNP_P4_98615_33187147	NC_021166.1	Ca_kabuli_chr07	33187147	CC	AA	1946893155
SNP_P4_98616_33188196	NC_021166.1	Ca_kabuli_chr07	33188196	GG	AA	1946893157
SNP_P4_98617_33188243	NC_021166.1	Ca_kabuli_chr07	33188243	CC	TT	1946893159
SNP_P4_98618_33188263	NC_021166.1	Ca_kabuli_chr07	33188263	GG	TT	1946893161
SNP_P4_98620_33188936	NC_021166.1	Ca_kabuli_chr07	33188936	AA	GG	1946893163
SNP_P4_98621_33188993	NC_021166.1	Ca_kabuli_chr07	33188993	GG	AA	1946893165
SNP_P4_98622_33189010	NC_021166.1	Ca_kabuli_chr07	33189010	GG	AA	1946893167
SNP_P4_98623_33189083	NC_021166.1	Ca_kabuli_chr07	33189083	AA	GG	1946893169
SNP_P4_98624_33189114	NC_021166.1	Ca_kabuli_chr07	33189114	AA	TT	1946893171
SNP_P4_98626_33189541	NC_021166.1	Ca_kabuli_chr07	33189541	AA	GG	1946893173
SNP_P4_98627_33189666	NC_021166.1	Ca_kabuli_chr07	33189666	AA	TT	1946893175
SNP_P4_98628_33189690	NC_021166.1	Ca_kabuli_chr07	33189690	AA	CC	1946893177
SNP_P4_98629_33189766	NC_021166.1	Ca_kabuli_chr07	33189766	CC	TT	1946893179
SNP_P4_98630_33189791	NC_021166.1	Ca_kabuli_chr07	33189791	AA	GG	1946893181
SNP_P4_98631_33189893	NC_021166.1	Ca_kabuli_chr07	33189893	GG	AA	1946893183
SNP_P4_98632_33190221	NC_021166.1	Ca_kabuli_chr07	33190221	GG	AA	1946893186
SNP_P4_98633_33190295	NC_021166.1	Ca_kabuli_chr07	33190295	AA	GG	1946893188
SNP_P4_98634_33190812	NC_021166.1	Ca_kabuli_chr07	33190812	AA	CC	1946893190
SNP_P4_98635_33190860	NC_021166.1	Ca_kabuli_chr07	33190860	AA	TT	1946893192
SNP_P4_98636_33190861	NC_021166.1	Ca_kabuli_chr07	33190861	TT	AA	1946893194
SNP_P4_98637_33190910	NC_021166.1	Ca_kabuli_chr07	33190910	AA	TT	1946893196
SNP_P4_98638_33190942	NC_021166.1	Ca_kabuli_chr07	33190942	CC	TT	1946893198
SNP_P4_98639_33190957	NC_021166.1	Ca_kabuli_chr07	33190957	TT	AA	1946893200
SNP_P4_98640_33190963	NC_021166.1	Ca_kabuli_chr07	33190963	GG	AA	1946893202
SNP_P4_98641_33191084	NC_021166.1	Ca_kabuli_chr07	33191084	TT	CC	1946893204
SNP_P4_98642_33191659	NC_021166.1	Ca_kabuli_chr07	33191659	AA	TT	1946893207
SNP_P4_98643_33191709	NC_021166.1	Ca_kabuli_chr07	33191709	GG	AA	1946893209
SNP_P4_98644_33191743	NC_021166.1	Ca_kabuli_chr07	33191743	GG	TT	1946893211
SNP_P4_98645_33191769	NC_021166.1	Ca_kabuli_chr07	33191769	GG	CC	1946893213
SNP_P4_98646_33191793	NC_021166.1	Ca_kabuli_chr07	33191793	CC	TT	1946893215
SNP_P4_98647_33191973	NC_021166.1	Ca_kabuli_chr07	33191973	CC	AA	1946893217
SNP_P4_98648_33192162	NC_021166.1	Ca_kabuli_chr07	33192162	TT	AA	1946893219
SNP_P4_98649_33192185	NC_021166.1	Ca_kabuli_chr07	33192185	TT	CC	1946893221

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_98650_33192545	NC_021166.1	Ca_kabuli_chr07	33192545	CC	TT	1946893223
SNP_P4_98651_33192833	NC_021166.1	Ca_kabuli_chr07	33192833	GG	AA	1946893225
SNP_P4_98652_33192889	NC_021166.1	Ca_kabuli_chr07	33192889	CC	TT	1946893227
SNP_P4_98653_33193057	NC_021166.1	Ca_kabuli_chr07	33193057	CC	TT	1946893229
SNP_P4_98654_33193063	NC_021166.1	Ca_kabuli_chr07	33193063	GG	AA	1946893231
SNP_P4_98655_33193486	NC_021166.1	Ca_kabuli_chr07	33193486	AA	CC	1946893233
SNP_P4_98656_33193496	NC_021166.1	Ca_kabuli_chr07	33193496	GG	TT	1946893235
SNP_P4_98658_33194095	NC_021166.1	Ca_kabuli_chr07	33194095	CC	TT	1946893237
SNP_P4_98660_33194361	NC_021166.1	Ca_kabuli_chr07	33194361	AA	TT	1946893239
SNP_P4_98662_33194583	NC_021166.1	Ca_kabuli_chr07	33194583	TT	CC	1946893241
SNP_P4_98664_33194762	NC_021166.1	Ca_kabuli_chr07	33194762	CC	TT	1946893243
SNP_P4_98665_33194772	NC_021166.1	Ca_kabuli_chr07	33194772	TT	CC	1946893245
SNP_P4_98666_33194829	NC_021166.1	Ca_kabuli_chr07	33194829	CC	TT	1946893247
SNP_P4_98667_33194916	NC_021166.1	Ca_kabuli_chr07	33194916	TT	CC	1946893249
SNP_P4_98668_33194953	NC_021166.1	Ca_kabuli_chr07	33194953	GG	TT	1946893251
SNP_P4_98669_33194980	NC_021166.1	Ca_kabuli_chr07	33194980	AA	TT	1946893254
SNP_P4_98671_33195643	NC_021166.1	Ca_kabuli_chr07	33195643	TT	CC	1946893256
SNP_P4_98672_33195657	NC_021166.1	Ca_kabuli_chr07	33195657	AA	CC	1946893258
SNP_P4_98673_33195743	NC_021166.1	Ca_kabuli_chr07	33195743	AA	TT	1946893260
SNP_P4_98674_33207155	NC_021166.1	Ca_kabuli_chr07	33207155	TT	CC	1946893262
SNP_P4_98675_33207160	NC_021166.1	Ca_kabuli_chr07	33207160	TT	CC	1946893264
SNP_P4_98676_33207193	NC_021166.1	Ca_kabuli_chr07	33207193	GG	AA	1946893266
SNP_P4_98677_33207200	NC_021166.1	Ca_kabuli_chr07	33207200	TT	GG	1946893268
SNP_P4_98678_33207327	NC_021166.1	Ca_kabuli_chr07	33207327	AA	GG	1946893270
SNP_P4_98679_33207353	NC_021166.1	Ca_kabuli_chr07	33207353	AA	CC	1946893272
SNP_P4_98680_33207381	NC_021166.1	Ca_kabuli_chr07	33207381	AA	GG	1946893274
SNP_P4_98682_33209087	NC_021166.1	Ca_kabuli_chr07	33209087	TT	CC	1946893276
SNP_P4_98683_33209235	NC_021166.1	Ca_kabuli_chr07	33209235	TT	AA	1946893278
SNP_P4_98684_33209295	NC_021166.1	Ca_kabuli_chr07	33209295	CC	TT	1946893280
SNP_P4_98685_33209350	NC_021166.1	Ca_kabuli_chr07	33209350	TT	CC	1946893282
SNP_P4_98686_33209484	NC_021166.1	Ca_kabuli_chr07	33209484	CC	TT	1946893284
SNP_P4_98687_33209521	NC_021166.1	Ca_kabuli_chr07	33209521	AA	CC	1946893286
SNP_P4_98688_33209539	NC_021166.1	Ca_kabuli_chr07	33209539	TT	CC	1946893288
SNP_P4_98689_33210703	NC_021166.1	Ca_kabuli_chr07	33210703	TT	AA	1946893290
SNP_P4_98690_33210752	NC_021166.1	Ca_kabuli_chr07	33210752	GG	AA	1946893292
SNP_P4_98691_33211030	NC_021166.1	Ca_kabuli_chr07	33211030	GG	CC	1946893294
SNP_P4_98692_33211033	NC_021166.1	Ca_kabuli_chr07	33211033	AA	GG	1946893296
SNP_P4_98694_33211105	NC_021166.1	Ca_kabuli_chr07	33211105	GG	AA	1946893298
SNP_P4_98695_33211262	NC_021166.1	Ca_kabuli_chr07	33211262	CC	TT	1946893300
SNP_P4_98696_33211315	NC_021166.1	Ca_kabuli_chr07	33211315	TT	CC	1946893302
SNP_P4_98697_33211643	NC_021166.1	Ca_kabuli_chr07	33211643	GG	AA	1946893304
SNP_P4_98699_33212519	NC_021166.1	Ca_kabuli_chr07	33212519	AA	GG	1946893306

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_98702_33213124	NC_021166.1	Ca_kabuli_chr07	33213124	AA	GG	1946893310
SNP_P4_98703_33213161	NC_021166.1	Ca_kabuli_chr07	33213161	TT	CC	1946893312
SNP_P4_98704_33213219	NC_021166.1	Ca_kabuli_chr07	33213219	TT	AA	1946893314
SNP_P4_98705_33213702	NC_021166.1	Ca_kabuli_chr07	33213702	TT	CC	1946893316
SNP_P4_98706_33213704	NC_021166.1	Ca_kabuli_chr07	33213704	GG	AA	1946893318
SNP_P4_98707_33217395	NC_021166.1	Ca_kabuli_chr07	33217395	TT	GG	1946893320
SNP_P4_98708_33217408	NC_021166.1	Ca_kabuli_chr07	33217408	GG	AA	1946893322
SNP_P4_98711_33219854	NC_021166.1	Ca_kabuli_chr07	33219854	TT	CC	1946893324
SNP_P4_98712_33219887	NC_021166.1	Ca_kabuli_chr07	33219887	TT	CC	1946893326
SNP_P4_98713_33221837	NC_021166.1	Ca_kabuli_chr07	33221837	AA	CC	1946893328
SNP_P4_98714_33221909	NC_021166.1	Ca_kabuli_chr07	33221909	AA	GG	1946893330
SNP_P4_98715_33222091	NC_021166.1	Ca_kabuli_chr07	33222091	TT	AA	1946893332
SNP_P4_98716_33222096	NC_021166.1	Ca_kabuli_chr07	33222096	GG	CC	1946893334
SNP_P4_98717_33222145	NC_021166.1	Ca_kabuli_chr07	33222145	CC	AA	1946893336
SNP_P4_98718_33222380	NC_021166.1	Ca_kabuli_chr07	33222380	AA	GG	1946893338
SNP_P4_98719_33225460	NC_021166.1	Ca_kabuli_chr07	33225460	CC	AA	1946893340
SNP_P4_98720_33228712	NC_021166.1	Ca_kabuli_chr07	33228712	CC	TT	1946893342
SNP_P4_98721_33229115	NC_021166.1	Ca_kabuli_chr07	33229115	CC	TT	1946893344
SNP_P4_98722_33229131	NC_021166.1	Ca_kabuli_chr07	33229131	AA	CC	1946893346
SNP_P4_98723_33229167	NC_021166.1	Ca_kabuli_chr07	33229167	CC	TT	1946893348
SNP_P4_98724_33229424	NC_021166.1	Ca_kabuli_chr07	33229424	AA	TT	1946893350
SNP_P4_98725_33229431	NC_021166.1	Ca_kabuli_chr07	33229431	AA	TT	1946893353
SNP_P4_98726_33229486	NC_021166.1	Ca_kabuli_chr07	33229486	TT	CC	1946893355
SNP_P4_98727_33230049	NC_021166.1	Ca_kabuli_chr07	33230049	GG	AA	1946893357
SNP_P4_98728_33230582	NC_021166.1	Ca_kabuli_chr07	33230582	TT	AA	1946893359
SNP_P4_98729_33230602	NC_021166.1	Ca_kabuli_chr07	33230602	AA	TT	1946893361
SNP_P4_98730_33230603	NC_021166.1	Ca_kabuli_chr07	33230603	TT	AA	1946893363
SNP_P4_98731_33230605	NC_021166.1	Ca_kabuli_chr07	33230605	AA	TT	1946893365
SNP_P4_98733_33234068	NC_021166.1	Ca_kabuli_chr07	33234068	AA	GG	1946893367
SNP_P4_98734_33234069	NC_021166.1	Ca_kabuli_chr07	33234069	GG	AA	1946893369
SNP_P4_98735_33234370	NC_021166.1	Ca_kabuli_chr07	33234370	TT	GG	1946893371
SNP_P4_98736_33234474	NC_021166.1	Ca_kabuli_chr07	33234474	TT	GG	1946893373
SNP_P4_98737_33234549	NC_021166.1	Ca_kabuli_chr07	33234549	GG	AA	1946893375
SNP_P4_98738_33234616	NC_021166.1	Ca_kabuli_chr07	33234616	AA	GG	1946893377
SNP_P4_98740_33236371	NC_021166.1	Ca_kabuli_chr07	33236371	AA	GG	1946893379
SNP_P4_98741_33236391	NC_021166.1	Ca_kabuli_chr07	33236391	AA	GG	1946893381
SNP_P4_98742_33236405	NC_021166.1	Ca_kabuli_chr07	33236405	AA	GG	1946893383
SNP_P4_98743_33236411	NC_021166.1	Ca_kabuli_chr07	33236411	AA	GG	1946893385
SNP_P4_98744_33236582	NC_021166.1	Ca_kabuli_chr07	33236582	AA	GG	1946893387
SNP_P4_98745_33236592	NC_021166.1	Ca_kabuli_chr07	33236592	AA	GG	1946893389
SNP_P4_98746_33236623	NC_021166.1	Ca_kabuli_chr07	33236623	AA	GG	1946893391

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_98748_33236665	NC_021166.1	Ca_kabuli_chr07	33236665	CC	TT	1946893395
SNP_P4_98749_33236690	NC_021166.1	Ca_kabuli_chr07	33236690	AA	GG	1946893397
SNP_P4_98750_33236790	NC_021166.1	Ca_kabuli_chr07	33236790	TT	GG	1946893399
SNP_P4_98751_33236792	NC_021166.1	Ca_kabuli_chr07	33236792	CC	TT	1946893401
SNP_P4_98752_33236796	NC_021166.1	Ca_kabuli_chr07	33236796	CC	TT	1946893403
SNP_P4_98753_33236899	NC_021166.1	Ca_kabuli_chr07	33236899	TT	CC	1946893405
SNP_P4_98754_33236906	NC_021166.1	Ca_kabuli_chr07	33236906	GG	TT	1946893407
SNP_P4_98755_33236920	NC_021166.1	Ca_kabuli_chr07	33236920	AA	GG	1946893409
SNP_P4_98756_33236921	NC_021166.1	Ca_kabuli_chr07	33236921	TT	CC	1946893411
SNP_P4_98757_33236946	NC_021166.1	Ca_kabuli_chr07	33236946	AA	GG	1946893413
SNP_P4_98758_33236947	NC_021166.1	Ca_kabuli_chr07	33236947	GG	AA	1946893415
SNP_P4_98759_33237009	NC_021166.1	Ca_kabuli_chr07	33237009	TT	CC	1946893418
SNP_P4_98760_33237240	NC_021166.1	Ca_kabuli_chr07	33237240	TT	CC	1946893420
SNP_P4_98761_33237254	NC_021166.1	Ca_kabuli_chr07	33237254	TT	CC	1946893422
SNP_P4_98762_33237260	NC_021166.1	Ca_kabuli_chr07	33237260	CC	AA	1946893424
SNP_P4_98763_33237267	NC_021166.1	Ca_kabuli_chr07	33237267	GG	AA	1946893426
SNP_P4_98764_33237289	NC_021166.1	Ca_kabuli_chr07	33237289	GG	AA	1946893428
SNP_P4_98765_33237300	NC_021166.1	Ca_kabuli_chr07	33237300	CC	TT	1946893430
SNP_P4_98766_33237334	NC_021166.1	Ca_kabuli_chr07	33237334	GG	CC	1946893432
SNP_P4_98768_33237395	NC_021166.1	Ca_kabuli_chr07	33237395	GG	AA	1946893434
SNP_P4_98769_33237397	NC_021166.1	Ca_kabuli_chr07	33237397	GG	TT	1946893436
SNP_P4_98770_33237464	NC_021166.1	Ca_kabuli_chr07	33237464	GG	AA	1946893438
SNP_P4_98771_33237493	NC_021166.1	Ca_kabuli_chr07	33237493	CC	AA	1946893440
SNP_P4_98773_33238191	NC_021166.1	Ca_kabuli_chr07	33238191	CC	AA	1946893442
SNP_P4_98774_33238492	NC_021166.1	Ca_kabuli_chr07	33238492	GG	AA	1946893445
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SNP_P4_98777_33240582	NC_021166.1	Ca_kabuli_chr07	33240582	TT	CC	1946893449
SNP_P4_98778_33240631	NC_021166.1	Ca_kabuli_chr07	33240631	CC	TT	1946893451
SNP_P4_98779_33240648	NC_021166.1	Ca_kabuli_chr07	33240648	CC	TT	1946893453
SNP_P4_98780_33240662	NC_021166.1	Ca_kabuli_chr07	33240662	TT	CC	1946893455
SNP_P4_98781_33240664	NC_021166.1	Ca_kabuli_chr07	33240664	GG	AA	1946893456
SNP_P4_98782_33240688	NC_021166.1	Ca_kabuli_chr07	33240688	CC	GG	1946893458
SNP_P4_98783_33240693	NC_021166.1	Ca_kabuli_chr07	33240693	TT	CC	1946893460
SNP_P4_98784_33240694	NC_021166.1	Ca_kabuli_chr07	33240694	GG	AA	1946893463
SNP_P4_98785_33240737	NC_021166.1	Ca_kabuli_chr07	33240737	TT	GG	1946893465
SNP_P4_98786_33240748	NC_021166.1	Ca_kabuli_chr07	33240748	CC	TT	1946893467
SNP_P4_98787_33240796	NC_021166.1	Ca_kabuli_chr07	33240796	CC	AA	1946893469
SNP_P4_98788_33240890	NC_021166.1	Ca_kabuli_chr07	33240890	AA	GG	1946893471
SNP_P4_98789_33240944	NC_021166.1	Ca_kabuli_chr07	33240944	GG	CC	1946893473
SNP_P4_98790_33240980	NC_021166.1	Ca_kabuli_chr07	33240980	CC	TT	1946893475
SNP_P4_98791_33241199	NC_021166.1	Ca_kabuli_chr07	33241199	TT	CC	1946893477

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_98793_33243955	NC_021166.1	Ca_kabuli_chr07	33243955	CC	AA	1946893481
SNP_P4_98796_33244191	NC_021166.1	Ca_kabuli_chr07	33244191	AA	GG	1946893483
SNP_P4_98797_33244542	NC_021166.1	Ca_kabuli_chr07	33244542	TT	CC	1946893485
SNP_P4_98798_33245942	NC_021166.1	Ca_kabuli_chr07	33245942	GG	TT	1946893487
SNP_P4_98799_33246274	NC_021166.1	Ca_kabuli_chr07	33246274	TT	AA	1946893489
SNP_P4_98800_33246295	NC_021166.1	Ca_kabuli_chr07	33246295	TT	GG	1946893491
SNP_P4_98801_33246354	NC_021166.1	Ca_kabuli_chr07	33246354	AA	TT	1946893493
SNP_P4_98803_33246999	NC_021166.1	Ca_kabuli_chr07	33246999	CC	AA	1946893495
SNP_P4_98804_33247391	NC_021166.1	Ca_kabuli_chr07	33247391	CC	TT	1946893497
SNP_P4_98805_33247404	NC_021166.1	Ca_kabuli_chr07	33247404	AA	GG	1946893499
SNP_P4_98806_33247433	NC_021166.1	Ca_kabuli_chr07	33247433	GG	AA	1946893501
SNP_P4_98808_33247942	NC_021166.1	Ca_kabuli_chr07	33247942	AA	CC	1946893503
SNP_P4_98809_33247968	NC_021166.1	Ca_kabuli_chr07	33247968	TT	CC	1946893505
SNP_P4_98810_33247972	NC_021166.1	Ca_kabuli_chr07	33247972	TT	CC	1946893507
SNP_P4_98811_33248616	NC_021166.1	Ca_kabuli_chr07	33248616	TT	GG	1946893509
SNP_P4_98812_33248638	NC_021166.1	Ca_kabuli_chr07	33248638	AA	GG	1946893511
SNP_P4_98813_33249006	NC_021166.1	Ca_kabuli_chr07	33249006	TT	CC	1946893513
SNP_P4_98814_33249448	NC_021166.1	Ca_kabuli_chr07	33249448	GG	TT	1946893515
SNP_P4_98815_33249530	NC_021166.1	Ca_kabuli_chr07	33249530	TT	AA	1946893517
SNP_P4_98816_33251088	NC_021166.1	Ca_kabuli_chr07	33251088	AA	GG	1946893519
SNP_P4_98817_33252337	NC_021166.1	Ca_kabuli_chr07	33252337	TT	AA	1946893521
SNP_P4_98818_33252757	NC_021166.1	Ca_kabuli_chr07	33252757	CC	AA	1946893523
SNP_P4_98819_33253041	NC_021166.1	Ca_kabuli_chr07	33253041	TT	AA	1946893525
SNP_P4_98820_33253630	NC_021166.1	Ca_kabuli_chr07	33253630	AA	TT	1946893527
SNP_P4_98821_33253814	NC_021166.1	Ca_kabuli_chr07	33253814	CC	TT	1946893529
SNP_P4_98823_33256360	NC_021166.1	Ca_kabuli_chr07	33256360	AA	GG	1946893531
SNP_P4_98824_33256392	NC_021166.1	Ca_kabuli_chr07	33256392	CC	TT	1946893533
SNP_P4_98825_33256393	NC_021166.1	Ca_kabuli_chr07	33256393	GG	AA	1946893535
SNP_P4_98826_33257109	NC_021166.1	Ca_kabuli_chr07	33257109	CC	TT	1946893537
SNP_P4_98827_33257433	NC_021166.1	Ca_kabuli_chr07	33257433	TT	CC	1946893539
SNP_P4_98828_33257764	NC_021166.1	Ca_kabuli_chr07	33257764	AA	GG	1946893541
SNP_P4_98829_33257775	NC_021166.1	Ca_kabuli_chr07	33257775	TT	CC	1946893543
SNP_P4_98831_33258145	NC_021166.1	Ca_kabuli_chr07	33258145	TT	AA	1946893545
SNP_P4_98834_33265727	NC_021166.1	Ca_kabuli_chr07	33265727	TT	CC	1946893547
SNP_P4_98835_33265734	NC_021166.1	Ca_kabuli_chr07	33265734	AA	GG	1946893549
SNP_P4_98837_33267401	NC_021166.1	Ca_kabuli_chr07	33267401	GG	CC	1946893551
SNP_P4_98838_33267461	NC_021166.1	Ca_kabuli_chr07	33267461	GG	TT	1946893553
SNP_P4_98839_33267485	NC_021166.1	Ca_kabuli_chr07	33267485	TT	CC	1946893555
SNP_P4_98840_33267496	NC_021166.1	Ca_kabuli_chr07	33267496	TT	AA	1946893557
SNP_P4_98842_33267836	NC_021166.1	Ca_kabuli_chr07	33267836	TT	CC	1946893559
SNP_P4_98843_33268103	NC_021166.1	Ca_kabuli_chr07	33268103	GG	TT	1946893561

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_98845_33268416	NC_021166.1	Ca_kabuli_chr07	33268416	CC	GG	1946893565
SNP_P4_98846_33268509	NC_021166.1	Ca_kabuli_chr07	33268509	AA	TT	1946893567
SNP_P4_98847_33268556	NC_021166.1	Ca_kabuli_chr07	33268556	TT	CC	1946893569
SNP_P4_98848_33268701	NC_021166.1	Ca_kabuli_chr07	33268701	AA	GG	1946893571
SNP_P4_98849_33268745	NC_021166.1	Ca_kabuli_chr07	33268745	AA	GG	1946893573
SNP_P4_98850_33268785	NC_021166.1	Ca_kabuli_chr07	33268785	GG	AA	1946893575
SNP_P4_98851_33268803	NC_021166.1	Ca_kabuli_chr07	33268803	TT	CC	1946893577
SNP_P4_98852_33269148	NC_021166.1	Ca_kabuli_chr07	33269148	TT	CC	1946893579
SNP_P4_98853_33269149	NC_021166.1	Ca_kabuli_chr07	33269149	GG	AA	1946893581
SNP_P4_98854_33269829	NC_021166.1	Ca_kabuli_chr07	33269829	TT	AA	1946893583
SNP_P4_98855_33270023	NC_021166.1	Ca_kabuli_chr07	33270023	AA	GG	1946893585
SNP_P4_98856_33270426	NC_021166.1	Ca_kabuli_chr07	33270426	GG	TT	1946893587
SNP_P4_98857_33270484	NC_021166.1	Ca_kabuli_chr07	33270484	AA	GG	1946893589
SNP_P4_98858_33270485	NC_021166.1	Ca_kabuli_chr07	33270485	TT	AA	1946893591
SNP_P4_98859_33270498	NC_021166.1	Ca_kabuli_chr07	33270498	CC	AA	1946893593
SNP_P4_98860_33272232	NC_021166.1	Ca_kabuli_chr07	33272232	TT	GG	1946893595
SNP_P4_98861_33272239	NC_021166.1	Ca_kabuli_chr07	33272239	GG	TT	1946893597
SNP_P4_98862_33273084	NC_021166.1	Ca_kabuli_chr07	33273084	CC	TT	1946893599
SNP_P4_98863_33274635	NC_021166.1	Ca_kabuli_chr07	33274635	GG	AA	1946893601
SNP_P4_98865_33274865	NC_021166.1	Ca_kabuli_chr07	33274865	AA	GG	1946893603
SNP_P4_98866_33275016	NC_021166.1	Ca_kabuli_chr07	33275016	AA	TT	1946893605
SNP_P4_98867_33275299	NC_021166.1	Ca_kabuli_chr07	33275299	AA	CC	1946893607
SNP_P4_98868_33277366	NC_021166.1	Ca_kabuli_chr07	33277366	AA	GG	1946893609
SNP_P4_98869_33277408	NC_021166.1	Ca_kabuli_chr07	33277408	GG	AA	1946893611
SNP_P4_98870_33277416	NC_021166.1	Ca_kabuli_chr07	33277416	CC	TT	1946893613
SNP_P4_98871_33277536	NC_021166.1	Ca_kabuli_chr07	33277536	GG	AA	1946893615
SNP_P4_98873_33279758	NC_021166.1	Ca_kabuli_chr07	33279758	TT	CC	1946893617
SNP_P4_98874_33280589	NC_021166.1	Ca_kabuli_chr07	33280589	TT	CC	1946893619
SNP_P4_98875_33282413	NC_021166.1	Ca_kabuli_chr07	33282413	TT	CC	1946893621
SNP_P4_98876_33282918	NC_021166.1	Ca_kabuli_chr07	33282918	GG	AA	1946893623
SNP_P4_98877_33282936	NC_021166.1	Ca_kabuli_chr07	33282936	AA	TT	1946893625
SNP_P4_98878_33283535	NC_021166.1	Ca_kabuli_chr07	33283535	AA	GG	1946893627
SNP_P4_98879_33283711	NC_021166.1	Ca_kabuli_chr07	33283711	GG	TT	1946893629
SNP_P4_98880_33286996	NC_021166.1	Ca_kabuli_chr07	33286996	TT	AA	1946893631
SNP_P4_98881_33287011	NC_021166.1	Ca_kabuli_chr07	33287011	TT	CC	1946893632
SNP_P4_98882_33287360	NC_021166.1	Ca_kabuli_chr07	33287360	TT	CC	1946893633
SNP_P4_98883_33287395	NC_021166.1	Ca_kabuli_chr07	33287395	AA	GG	1946893634
SNP_P4_98885_33287773	NC_021166.1	Ca_kabuli_chr07	33287773	TT	AA	1946893635
SNP_P4_98886_33287790	NC_021166.1	Ca_kabuli_chr07	33287790	AA	GG	1946893636
SNP_P4_98887_33287825	NC_021166.1	Ca_kabuli_chr07	33287825	TT	CC	1946893637
SNP_P4_98888_33287863	NC_021166.1	Ca_kabuli_chr07	33287863	GG	TT	1946893639

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_98890_33288040	NC_021166.1	Ca_kabuli_chr07	33288040	CC	TT	1946893644
SNP_P4_98891_33288044	NC_021166.1	Ca_kabuli_chr07	33288044	GG	TT	1946893646
SNP_P4_98892_33288054	NC_021166.1	Ca_kabuli_chr07	33288054	AA	GG	1946893648
SNP_P4_98893_33288061	NC_021166.1	Ca_kabuli_chr07	33288061	TT	CC	1946893650
SNP_P4_98894_33288100	NC_021166.1	Ca_kabuli_chr07	33288100	AA	GG	1946893652
SNP_P4_98895_33288103	NC_021166.1	Ca_kabuli_chr07	33288103	AA	CC	1946893654
SNP_P4_98896_33288105	NC_021166.1	Ca_kabuli_chr07	33288105	GG	TT	1946893656
SNP_P4_98897_33288217	NC_021166.1	Ca_kabuli_chr07	33288217	GG	TT	1946893658
SNP_P4_98898_33288224	NC_021166.1	Ca_kabuli_chr07	33288224	GG	AA	1946893660
SNP_P4_98899_33288351	NC_021166.1	Ca_kabuli_chr07	33288351	CC	TT	1946893662
SNP_P4_98900_33288359	NC_021166.1	Ca_kabuli_chr07	33288359	AA	GG	1946893664
SNP_P4_98901_33288385	NC_021166.1	Ca_kabuli_chr07	33288385	CC	AA	1946893666
SNP_P4_98902_33288454	NC_021166.1	Ca_kabuli_chr07	33288454	AA	GG	1946893668
SNP_P4_98903_33289156	NC_021166.1	Ca_kabuli_chr07	33289156	AA	CC	1946893670
SNP_P4_98904_33289166	NC_021166.1	Ca_kabuli_chr07	33289166	AA	GG	1946893672
SNP_P4_98905_33289824	NC_021166.1	Ca_kabuli_chr07	33289824	TT	AA	1946893674
SNP_P4_98906_33290503	NC_021166.1	Ca_kabuli_chr07	33290503	TT	GG	1946893676
SNP_P4_98907_33290611	NC_021166.1	Ca_kabuli_chr07	33290611	CC	TT	1946893679
SNP_P4_98908_33290616	NC_021166.1	Ca_kabuli_chr07	33290616	CC	TT	1946893681
SNP_P4_98909_33290741	NC_021166.1	Ca_kabuli_chr07	33290741	AA	GG	1946893683
SNP_P4_98910_33290764	NC_021166.1	Ca_kabuli_chr07	33290764	CC	TT	1946893685
SNP_P4_98911_33290785	NC_021166.1	Ca_kabuli_chr07	33290785	GG	CC	1946893687
SNP_P4_98912_33290803	NC_021166.1	Ca_kabuli_chr07	33290803	AA	TT	1946893689
SNP_P4_98913_33290819	NC_021166.1	Ca_kabuli_chr07	33290819	AA	TT	1946893691
SNP_P4_98914_33290820	NC_021166.1	Ca_kabuli_chr07	33290820	GG	AA	1946893693
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SNP_P4_98917_33293350	NC_021166.1	Ca_kabuli_chr07	33293350	GG	TT	1946893699
SNP_P4_98918_33293354	NC_021166.1	Ca_kabuli_chr07	33293354	GG	AA	1946893701
SNP_P4_98919_33293407	NC_021166.1	Ca_kabuli_chr07	33293407	CC	TT	1946893703
SNP_P4_98920_33294222	NC_021166.1	Ca_kabuli_chr07	33294222	CC	AA	1946893705
SNP_P4_98921_33294267	NC_021166.1	Ca_kabuli_chr07	33294267	CC	TT	1946893707
SNP_P4_98922_33294290	NC_021166.1	Ca_kabuli_chr07	33294290	GG	TT	1946893709
SNP_P4_98923_33294460	NC_021166.1	Ca_kabuli_chr07	33294460	AA	GG	1946893711
SNP_P4_98924_33294473	NC_021166.1	Ca_kabuli_chr07	33294473	AA	GG	1946893713
SNP_P4_98926_33295279	NC_021166.1	Ca_kabuli_chr07	33295279	TT	AA	1946893715
SNP_P4_98927_33295705	NC_021166.1	Ca_kabuli_chr07	33295705	AA	CC	1946893717
SNP_P4_98929_33296088	NC_021166.1	Ca_kabuli_chr07	33296088	AA	GG	1946893719
SNP_P4_98930_33296091	NC_021166.1	Ca_kabuli_chr07	33296091	GG	AA	1946893721
SNP_P4_98931_33296153	NC_021166.1	Ca_kabuli_chr07	33296153	CC	TT	1946893723
SNP_P4_98932_33296280	NC_021166.1	Ca_kabuli_chr07	33296280	TT	AA	1946893725

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_98934_33296322	NC_021166.1	Ca_kabuli_chr07	33296322	TT	CC	1946893729
SNP_P4_98935_33297142	NC_021166.1	Ca_kabuli_chr07	33297142	GG	TT	1946893731
SNP_P4_98936_33297170	NC_021166.1	Ca_kabuli_chr07	33297170	GG	AA	1946893733
SNP_P4_98937_33297188	NC_021166.1	Ca_kabuli_chr07	33297188	TT	CC	1946893735
SNP_P4_98938_33297356	NC_021166.1	Ca_kabuli_chr07	33297356	GG	AA	1946893737
SNP_P4_98939_33297580	NC_021166.1	Ca_kabuli_chr07	33297580	AA	TT	1946893739
SNP_P4_98940_33297581	NC_021166.1	Ca_kabuli_chr07	33297581	GG	TT	1946893741
SNP_P4_98941_33297732	NC_021166.1	Ca_kabuli_chr07	33297732	TT	AA	1946893743
SNP_P4_98942_33297756	NC_021166.1	Ca_kabuli_chr07	33297756	CC	GG	1946893745
SNP_P4_98943_33299836	NC_021166.1	Ca_kabuli_chr07	33299836	AA	GG	1946893747
SNP_P4_98944_33299848	NC_021166.1	Ca_kabuli_chr07	33299848	CC	TT	1946893749
SNP_P4_98945_33302273	NC_021166.1	Ca_kabuli_chr07	33302273	TT	AA	1946893751
SNP_P4_98946_33303458	NC_021166.1	Ca_kabuli_chr07	33303458	CC	AA	1946893753
SNP_P4_98947_33307265	NC_021166.1	Ca_kabuli_chr07	33307265	TT	CC	1946893755
SNP_P4_98948_33307277	NC_021166.1	Ca_kabuli_chr07	33307277	GG	AA	1946893757
SNP_P4_98949_33307320	NC_021166.1	Ca_kabuli_chr07	33307320	CC	TT	1946893759
SNP_P4_98950_33307327	NC_021166.1	Ca_kabuli_chr07	33307327	GG	AA	1946893761
SNP_P4_98951_33307330	NC_021166.1	Ca_kabuli_chr07	33307330	TT	AA	1946893763
SNP_P4_98952_33307331	NC_021166.1	Ca_kabuli_chr07	33307331	TT	GG	1946893765
SNP_P4_98953_33307335	NC_021166.1	Ca_kabuli_chr07	33307335	TT	CC	1946893767
SNP_P4_98954_33307380	NC_021166.1	Ca_kabuli_chr07	33307380	GG	AA	1946893769
SNP_P4_98955_33307589	NC_021166.1	Ca_kabuli_chr07	33307589	TT	CC	1946893771
SNP_P4_98956_33307603	NC_021166.1	Ca_kabuli_chr07	33307603	AA	TT	1946893773
SNP_P4_98957_33308029	NC_021166.1	Ca_kabuli_chr07	33308029	GG	TT	1946893775
SNP_P4_98958_33308044	NC_021166.1	Ca_kabuli_chr07	33308044	CC	TT	1946893778
SNP_P4_98959_33308255	NC_021166.1	Ca_kabuli_chr07	33308255	GG	AA	1946893780
SNP_P4_98960_33308444	NC_021166.1	Ca_kabuli_chr07	33308444	TT	CC	1946893782
SNP_P4_98962_33309092	NC_021166.1	Ca_kabuli_chr07	33309092	GG	AA	1946893784
SNP_P4_98963_33320448	NC_021166.1	Ca_kabuli_chr07	33320448	CC	TT	1946893786
SNP_P4_98964_33320453	NC_021166.1	Ca_kabuli_chr07	33320453	AA	GG	1946893788
SNP_P4_98965_33324755	NC_021166.1	Ca_kabuli_chr07	33324755	TT	AA	1946893790
SNP_P4_98967_33324840	NC_021166.1	Ca_kabuli_chr07	33324840	AA	GG	1946893792
SNP_P4_98968_33324880	NC_021166.1	Ca_kabuli_chr07	33324880	GG	AA	1946893794
SNP_P4_98969_33324902	NC_021166.1	Ca_kabuli_chr07	33324902	TT	CC	1946893796
SNP_P4_98970_33325179	NC_021166.1	Ca_kabuli_chr07	33325179	CC	TT	1946893798
SNP_P4_98971_33325202	NC_021166.1	Ca_kabuli_chr07	33325202	CC	TT	1946893800
SNP_P4_98972_33325440	NC_021166.1	Ca_kabuli_chr07	33325440	AA	GG	1946893802
SNP_P4_98973_33325911	NC_021166.1	Ca_kabuli_chr07	33325911	TT	CC	1946893804
SNP_P4_98974_33325913	NC_021166.1	Ca_kabuli_chr07	33325913	AA	GG	1946893806
SNP_P4_98975_33326081	NC_021166.1	Ca_kabuli_chr07	33326081	GG	TT	1946893808
SNP_P4_98976_33326090	NC_021166.1	Ca_kabuli_chr07	33326090	CC	AA	1946893810

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_98977_33326573	NC_021166.1	Ca_kabuli_chr07	33326573	TT	CC	1946893812
SNP_P4_98978_33326574	NC_021166.1	Ca_kabuli_chr07	33326574	CC	TT	1946893814
SNP_P4_98979_33326667	NC_021166.1	Ca_kabuli_chr07	33326667	GG	AA	1946893816
SNP_P4_98980_33326694	NC_021166.1	Ca_kabuli_chr07	33326694	AA	GG	1946893818
SNP_P4_98981_33326748	NC_021166.1	Ca_kabuli_chr07	33326748	AA	GG	1946893820
SNP_P4_98982_33326749	NC_021166.1	Ca_kabuli_chr07	33326749	GG	AA	1946893822
SNP_P4_98983_33326753	NC_021166.1	Ca_kabuli_chr07	33326753	CC	GG	1946893824
SNP_P4_98984_33326797	NC_021166.1	Ca_kabuli_chr07	33326797	GG	AA	1946893827
SNP_P4_98985_33326820	NC_021166.1	Ca_kabuli_chr07	33326820	CC	TT	1946893829
SNP_P4_98986_33326970	NC_021166.1	Ca_kabuli_chr07	33326970	AA	GG	1946893831
SNP_P4_98987_33326995	NC_021166.1	Ca_kabuli_chr07	33326995	AA	GG	1946893833
SNP_P4_98988_33327022	NC_021166.1	Ca_kabuli_chr07	33327022	AA	GG	1946893835
SNP_P4_98990_33327313	NC_021166.1	Ca_kabuli_chr07	33327313	GG	AA	1946893837
SNP_P4_98991_33327581	NC_021166.1	Ca_kabuli_chr07	33327581	AA	CC	1946893839
SNP_P4_98993_33328808	NC_021166.1	Ca_kabuli_chr07	33328808	AA	TT	1946893841
SNP_P4_98994_33328902	NC_021166.1	Ca_kabuli_chr07	33328902	GG	AA	1946893843
SNP_P4_98995_33329162	NC_021166.1	Ca_kabuli_chr07	33329162	GG	TT	1946893845
SNP_P4_98996_33329172	NC_021166.1	Ca_kabuli_chr07	33329172	GG	AA	1946893847
SNP_P4_98998_33329529	NC_021166.1	Ca_kabuli_chr07	33329529	CC	TT	1946893849
SNP_P4_98999_33329576	NC_021166.1	Ca_kabuli_chr07	33329576	CC	AA	1946893851
SNP_P4_99000_33330130	NC_021166.1	Ca_kabuli_chr07	33330130	GG	TT	1946893853
SNP_P4_99001_33330153	NC_021166.1	Ca_kabuli_chr07	33330153	TT	CC	1946893855
SNP_P4_99002_33330173	NC_021166.1	Ca_kabuli_chr07	33330173	CC	AA	1946893857
SNP_P4_99003_33331008	NC_021166.1	Ca_kabuli_chr07	33331008	CC	TT	1946893859
SNP_P4_99004_33331093	NC_021166.1	Ca_kabuli_chr07	33331093	TT	CC	1946893861
SNP_P4_99005_33331414	NC_021166.1	Ca_kabuli_chr07	33331414	GG	TT	1946893863
SNP_P4_99006_33334613	NC_021166.1	Ca_kabuli_chr07	33334613	GG	AA	1946893865
SNP_P4_99007_33335353	NC_021166.1	Ca_kabuli_chr07	33335353	TT	GG	1946893867
SNP_P4_99010_33336653	NC_021166.1	Ca_kabuli_chr07	33336653	TT	CC	1946893870
SNP_P4_99011_33338337	NC_021166.1	Ca_kabuli_chr07	33338337	CC	AA	1946893872
SNP_P4_99012_33338359	NC_021166.1	Ca_kabuli_chr07	33338359	TT	GG	1946893874
SNP_P4_99013_33338385	NC_021166.1	Ca_kabuli_chr07	33338385	TT	AA	1946893876
SNP_P4_99014_33338390	NC_021166.1	Ca_kabuli_chr07	33338390	CC	GG	1946893878
SNP_P4_99015_33338405	NC_021166.1	Ca_kabuli_chr07	33338405	AA	GG	1946893880
SNP_P4_99016_33338982	NC_021166.1	Ca_kabuli_chr07	33338982	CC	GG	1946893882
SNP_P4_99017_33342246	NC_021166.1	Ca_kabuli_chr07	33342246	GG	AA	1946893884
SNP_P4_99018_33342502	NC_021166.1	Ca_kabuli_chr07	33342502	GG	TT	1946893886
SNP_P4_99019_33342661	NC_021166.1	Ca_kabuli_chr07	33342661	TT	CC	1946893888
SNP_P4_99020_33342663	NC_021166.1	Ca_kabuli_chr07	33342663	CC	GG	1946893890
SNP_P4_99022_33345862	NC_021166.1	Ca_kabuli_chr07	33345862	AA	GG	1946893892
SNP_P4_99023_33346008	NC_021166.1	Ca_kabuli_chr07	33346008	CC	AA	1946893894
SNP_P4_99024_33347708	NC_021166.1	Ca_kabuli_chr07	33347708	TT	CC	1946893896

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_99027_33351069	NC_021166.1	Ca_kabuli_chr07	33351069	CC	TT	1946893902
SNP_P4_99028_33357973	NC_021166.1	Ca_kabuli_chr07	33357973	AA	TT	1946893904
SNP_P4_99029_33357979	NC_021166.1	Ca_kabuli_chr07	33357979	TT	AA	1946893906
SNP_P4_99030_33359534	NC_021166.1	Ca_kabuli_chr07	33359534	AA	CC	1946893908
SNP_P4_99031_33360828	NC_021166.1	Ca_kabuli_chr07	33360828	GG	AA	1946893910
SNP_P4_99032_33360846	NC_021166.1	Ca_kabuli_chr07	33360846	AA	TT	1946893912
SNP_P4_99033_33360854	NC_021166.1	Ca_kabuli_chr07	33360854	AA	CC	1946893915
SNP_P4_99034_33360859	NC_021166.1	Ca_kabuli_chr07	33360859	TT	CC	1946893917
SNP_P4_99035_33360959	NC_021166.1	Ca_kabuli_chr07	33360959	CC	TT	1946893919
SNP_P4_99036_33361024	NC_021166.1	Ca_kabuli_chr07	33361024	AA	GG	1946893921
SNP_P4_99038_33361262	NC_021166.1	Ca_kabuli_chr07	33361262	CC	TT	1946893923
SNP_P4_99039_33361345	NC_021166.1	Ca_kabuli_chr07	33361345	TT	GG	1946893925
SNP_P4_99040_33361499	NC_021166.1	Ca_kabuli_chr07	33361499	AA	TT	1946893927
SNP_P4_99042_33363988	NC_021166.1	Ca_kabuli_chr07	33363988	AA	GG	1946893929
SNP_P4_99043_33365916	NC_021166.1	Ca_kabuli_chr07	33365916	CC	TT	1946893931
SNP_P4_99046_33367487	NC_021166.1	Ca_kabuli_chr07	33367487	CC	TT	1946893933
SNP_P4_99047_33367509	NC_021166.1	Ca_kabuli_chr07	33367509	AA	CC	1946893935
SNP_P4_99048_33367536	NC_021166.1	Ca_kabuli_chr07	33367536	AA	CC	1946893937
SNP_P4_99051_33367750	NC_021166.1	Ca_kabuli_chr07	33367750	TT	GG	1946893939
SNP_P4_99052_33367755	NC_021166.1	Ca_kabuli_chr07	33367755	GG	AA	1946893941
SNP_P4_99053_33367778	NC_021166.1	Ca_kabuli_chr07	33367778	GG	TT	1946893943
SNP_P4_99054_33368617	NC_021166.1	Ca_kabuli_chr07	33368617	GG	AA	1946893945
SNP_P4_99055_33368633	NC_021166.1	Ca_kabuli_chr07	33368633	AA	GG	1946893947
SNP_P4_99056_33369369	NC_021166.1	Ca_kabuli_chr07	33369369	TT	CC	1946893949
SNP_P4_99057_33369572	NC_021166.1	Ca_kabuli_chr07	33369572	GG	AA	1946893951
SNP_P4_99058_33369586	NC_021166.1	Ca_kabuli_chr07	33369586	GG	AA	1946893953
SNP_P4_99059_33369685	NC_021166.1	Ca_kabuli_chr07	33369685	GG	TT	1946893955
SNP_P4_99060_33370079	NC_021166.1	Ca_kabuli_chr07	33370079	CC	TT	1946893957
SNP_P4_99061_33370550	NC_021166.1	Ca_kabuli_chr07	33370550	TT	CC	1946893959
SNP_P4_99063_33370778	NC_021166.1	Ca_kabuli_chr07	33370778	TT	CC	1946893962
SNP_P4_99064_33370797	NC_021166.1	Ca_kabuli_chr07	33370797	AA	GG	1946893964
SNP_P4_99065_33370896	NC_021166.1	Ca_kabuli_chr07	33370896	GG	AA	1946893966
SNP_P4_99066_33370914	NC_021166.1	Ca_kabuli_chr07	33370914	GG	AA	1946893968
SNP_P4_99067_33370918	NC_021166.1	Ca_kabuli_chr07	33370918	GG	AA	1946893970
SNP_P4_99068_33370948	NC_021166.1	Ca_kabuli_chr07	33370948	GG	AA	1946893972
SNP_P4_99069_33371044	NC_021166.1	Ca_kabuli_chr07	33371044	CC	GG	1946893974
SNP_P4_99070_33371053	NC_021166.1	Ca_kabuli_chr07	33371053	TT	CC	1946893976
SNP_P4_99071_33371243	NC_021166.1	Ca_kabuli_chr07	33371243	TT	CC	1946893978
SNP_P4_99072_33371492	NC_021166.1	Ca_kabuli_chr07	33371492	GG	TT	1946893980
SNP_P4_99073_33371493	NC_021166.1	Ca_kabuli_chr07	33371493	TT	AA	1946893982

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_99075_33371498	NC_021166.1	Ca_kabuli_chr07	33371498	AA	TT	1946893986
SNP_P4_99076_33371885	NC_021166.1	Ca_kabuli_chr07	33371885	CC	AA	1946893988
SNP_P4_99077_33372969	NC_021166.1	Ca_kabuli_chr07	33372969	CC	TT	1946893990
SNP_P4_99078_33374095	NC_021166.1	Ca_kabuli_chr07	33374095	CC	TT	1946893992
SNP_P4_99080_33378114	NC_021166.1	Ca_kabuli_chr07	33378114	CC	TT	1946893994
SNP_P4_99082_33378152	NC_021166.1	Ca_kabuli_chr07	33378152	GG	TT	1946893996
SNP_P4_99084_33379038	NC_021166.1	Ca_kabuli_chr07	33379038	CC	TT	1946893998
SNP_P4_99085_33381739	NC_021166.1	Ca_kabuli_chr07	33381739	AA	GG	1946894000
SNP_P4_99086_33381742	NC_021166.1	Ca_kabuli_chr07	33381742	TT	AA	1946894002
SNP_P4_99087_33381749	NC_021166.1	Ca_kabuli_chr07	33381749	TT	GG	1946894004
SNP_P4_99088_33382331	NC_021166.1	Ca_kabuli_chr07	33382331	GG	AA	1946894006
SNP_P4_99089_33382816	NC_021166.1	Ca_kabuli_chr07	33382816	CC	TT	1946894008
SNP_P4_99091_33382922	NC_021166.1	Ca_kabuli_chr07	33382922	AA	TT	1946894010
SNP_P4_99092_33382992	NC_021166.1	Ca_kabuli_chr07	33382992	TT	GG	1946894012
SNP_P4_99093_33383240	NC_021166.1	Ca_kabuli_chr07	33383240	TT	CC	1946894014
SNP_P4_99094_33383246	NC_021166.1	Ca_kabuli_chr07	33383246	CC	TT	1946894016
SNP_P4_99095_33383306	NC_021166.1	Ca_kabuli_chr07	33383306	AA	GG	1946894018
SNP_P4_99096_33383400	NC_021166.1	Ca_kabuli_chr07	33383400	GG	TT	1946894020
SNP_P4_99097_33383408	NC_021166.1	Ca_kabuli_chr07	33383408	AA	CC	1946894022
SNP_P4_99098_33383414	NC_021166.1	Ca_kabuli_chr07	33383414	CC	TT	1946894024
SNP_P4_99099_33383864	NC_021166.1	Ca_kabuli_chr07	33383864	AA	GG	1946894026
SNP_P4_99101_33384918	NC_021166.1	Ca_kabuli_chr07	33384918	CC	AA	1946894028
SNP_P4_99102_33385243	NC_021166.1	Ca_kabuli_chr07	33385243	GG	AA	1946894030
SNP_P4_99103_33385285	NC_021166.1	Ca_kabuli_chr07	33385285	TT	CC	1946894032
SNP_P4_99105_33385487	NC_021166.1	Ca_kabuli_chr07	33385487	AA	GG	1946894034
SNP_P4_99106_33387794	NC_021166.1	Ca_kabuli_chr07	33387794	GG	AA	1946894036
SNP_P4_99107_33401409	NC_021166.1	Ca_kabuli_chr07	33401409	AA	GG	1946894038
SNP_P4_99108_33401905	NC_021166.1	Ca_kabuli_chr07	33401905	TT	AA	1946894040
SNP_P4_99109_33405352	NC_021166.1	Ca_kabuli_chr07	33405352	GG	AA	1946894042
SNP_P4_99110_33405409	NC_021166.1	Ca_kabuli_chr07	33405409	CC	TT	1946894044
SNP_P4_99111_33405662	NC_021166.1	Ca_kabuli_chr07	33405662	AA	CC	1946894046
SNP_P4_99112_33408671	NC_021166.1	Ca_kabuli_chr07	33408671	AA	CC	1946894048
SNP_P4_99113_33408677	NC_021166.1	Ca_kabuli_chr07	33408677	TT	CC	1946894050
SNP_P4_99114_33408863	NC_021166.1	Ca_kabuli_chr07	33408863	CC	TT	1946894052
SNP_P4_99115_33408885	NC_021166.1	Ca_kabuli_chr07	33408885	CC	TT	1946894054
SNP_P4_99117_33409186	NC_021166.1	Ca_kabuli_chr07	33409186	TT	AA	1946894056
SNP_P4_99118_33409187	NC_021166.1	Ca_kabuli_chr07	33409187	TT	AA	1946894058
SNP_P4_99120_33409950	NC_021166.1	Ca_kabuli_chr07	33409950	GG	AA	1946894060
SNP_P4_99121_33410214	NC_021166.1	Ca_kabuli_chr07	33410214	TT	GG	1946894067
SNP_P4_99122_33410220	NC_021166.1	Ca_kabuli_chr07	33410220	CC	TT	1946894069
SNP_P4_99123_33411355	NC_021166.1	Ca_kabuli_chr07	33411355	GG	TT	1946894071

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_99125_33413568	NC_021166.1	Ca_kabuli_chr07	33413568	AA	TT	1946894075
SNP_P4_99126_33413599	NC_021166.1	Ca_kabuli_chr07	33413599	CC	AA	1946894077
SNP_P4_99127_33416039	NC_021166.1	Ca_kabuli_chr07	33416039	GG	TT	1946894079
SNP_P4_99128_33416195	NC_021166.1	Ca_kabuli_chr07	33416195	TT	CC	1946894081
SNP_P4_99129_33418145	NC_021166.1	Ca_kabuli_chr07	33418145	GG	AA	1946894083
SNP_P4_99130_33418615	NC_021166.1	Ca_kabuli_chr07	33418615	GG	AA	1946894085
SNP_P4_99131_33418652	NC_021166.1	Ca_kabuli_chr07	33418652	GG	TT	1946894087
SNP_P4_99132_33419869	NC_021166.1	Ca_kabuli_chr07	33419869	TT	CC	1946894090
SNP_P4_99133_33419894	NC_021166.1	Ca_kabuli_chr07	33419894	GG	TT	1946894092
SNP_P4_99134_33421172	NC_021166.1	Ca_kabuli_chr07	33421172	AA	CC	1946894094
SNP_P4_99135_33421304	NC_021166.1	Ca_kabuli_chr07	33421304	TT	CC	1946894096
SNP_P4_99136_33421364	NC_021166.1	Ca_kabuli_chr07	33421364	AA	GG	1946894098
SNP_P4_99138_33421895	NC_021166.1	Ca_kabuli_chr07	33421895	GG	TT	1946894100
SNP_P4_99139_33421896	NC_021166.1	Ca_kabuli_chr07	33421896	TT	CC	1946894102
SNP_P4_99140_33421960	NC_021166.1	Ca_kabuli_chr07	33421960	CC	TT	1946894104
SNP_P4_99141_33422688	NC_021166.1	Ca_kabuli_chr07	33422688	TT	CC	1946894106
SNP_P4_99142_33422800	NC_021166.1	Ca_kabuli_chr07	33422800	AA	GG	1946894108
SNP_P4_99143_33422801	NC_021166.1	Ca_kabuli_chr07	33422801	TT	GG	1946894110
SNP_P4_99144_33422953	NC_021166.1	Ca_kabuli_chr07	33422953	GG	AA	1946894112
SNP_P4_99145_33423077	NC_021166.1	Ca_kabuli_chr07	33423077	CC	AA	1946894114
SNP_P4_99146_33423085	NC_021166.1	Ca_kabuli_chr07	33423085	AA	GG	1946894116
SNP_P4_99147_33426028	NC_021166.1	Ca_kabuli_chr07	33426028	AA	TT	1946894118
SNP_P4_99149_33428457	NC_021166.1	Ca_kabuli_chr07	33428457	TT	CC	1946894120
SNP_P4_99150_33428552	NC_021166.1	Ca_kabuli_chr07	33428552	TT	CC	1946894121
SNP_P4_99151_33428591	NC_021166.1	Ca_kabuli_chr07	33428591	CC	GG	1946894123
SNP_P4_99152_33428853	NC_021166.1	Ca_kabuli_chr07	33428853	GG	CC	1946894125
SNP_P4_99153_33428874	NC_021166.1	Ca_kabuli_chr07	33428874	GG	TT	1946894127
SNP_P4_99154_33428899	NC_021166.1	Ca_kabuli_chr07	33428899	GG	TT	1946894129
SNP_P4_99156_33431302	NC_021166.1	Ca_kabuli_chr07	33431302	AA	GG	1946894131
SNP_P4_99157_33431307	NC_021166.1	Ca_kabuli_chr07	33431307	AA	GG	1946894133
SNP_P4_99158_33431310	NC_021166.1	Ca_kabuli_chr07	33431310	GG	AA	1946894135
SNP_P4_99159_33431414	NC_021166.1	Ca_kabuli_chr07	33431414	TT	GG	1946894137
SNP_P4_99160_33431544	NC_021166.1	Ca_kabuli_chr07	33431544	AA	TT	1946894139
SNP_P4_99161_33431545	NC_021166.1	Ca_kabuli_chr07	33431545	CC	TT	1946894141
SNP_P4_99162_33431596	NC_021166.1	Ca_kabuli_chr07	33431596	TT	GG	1946894143
SNP_P4_99163_33431641	NC_021166.1	Ca_kabuli_chr07	33431641	AA	GG	1946894145
SNP_P4_99164_33431865	NC_021166.1	Ca_kabuli_chr07	33431865	CC	GG	1946894147
SNP_P4_99165_33431912	NC_021166.1	Ca_kabuli_chr07	33431912	GG	AA	1946894149
SNP_P4_99166_33436051	NC_021166.1	Ca_kabuli_chr07	33436051	AA	CC	1946894151
SNP_P4_99167_33436097	NC_021166.1	Ca_kabuli_chr07	33436097	AA	GG	1946894153
SNP_P4_99168_33436479	NC_021166.1	Ca_kabuli_chr07	33436479	CC	TT	1946894155

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_99170_33436772	NC_021166.1	Ca_kabuli_chr07	33436772	TT	CC	1946894159
SNP_P4_99171_33441706	NC_021166.1	Ca_kabuli_chr07	33441706	CC	TT	1946894161
SNP_P4_99172_33442065	NC_021166.1	Ca_kabuli_chr07	33442065	AA	GG	1946894163
SNP_P4_99173_33443000	NC_021166.1	Ca_kabuli_chr07	33443000	CC	TT	1946894165
SNP_P4_99174_33443010	NC_021166.1	Ca_kabuli_chr07	33443010	CC	TT	1946894166
SNP_P4_99175_33443023	NC_021166.1	Ca_kabuli_chr07	33443023	CC	TT	1946894168
SNP_P4_99176_33443276	NC_021166.1	Ca_kabuli_chr07	33443276	TT	GG	1946894170
SNP_P4_99177_33443385	NC_021166.1	Ca_kabuli_chr07	33443385	TT	CC	1946894172
SNP_P4_99178_33443405	NC_021166.1	Ca_kabuli_chr07	33443405	GG	AA	1946894174
SNP_P4_99180_33443603	NC_021166.1	Ca_kabuli_chr07	33443603	GG	AA	1946894176
SNP_P4_99181_33443659	NC_021166.1	Ca_kabuli_chr07	33443659	AA	GG	1946894178
SNP_P4_99182_33446758	NC_021166.1	Ca_kabuli_chr07	33446758	GG	TT	1946894180
SNP_P4_99183_33451297	NC_021166.1	Ca_kabuli_chr07	33451297	TT	CC	1946894182
SNP_P4_99184_33452220	NC_021166.1	Ca_kabuli_chr07	33452220	TT	CC	1946894184
SNP_P4_99185_33456291	NC_021166.1	Ca_kabuli_chr07	33456291	AA	CC	1946894186
SNP_P4_99186_33456645	NC_021166.1	Ca_kabuli_chr07	33456645	GG	AA	1946894188
SNP_P4_99187_33457047	NC_021166.1	Ca_kabuli_chr07	33457047	TT	CC	1946894191
SNP_P4_99188_33457162	NC_021166.1	Ca_kabuli_chr07	33457162	GG	TT	1946894193
SNP_P4_99189_33457172	NC_021166.1	Ca_kabuli_chr07	33457172	AA	GG	1946894195
SNP_P4_99190_33457229	NC_021166.1	Ca_kabuli_chr07	33457229	GG	AA	1946894197
SNP_P4_99191_33457287	NC_021166.1	Ca_kabuli_chr07	33457287	TT	AA	1946894199
SNP_P4_99193_33457362	NC_021166.1	Ca_kabuli_chr07	33457362	TT	CC	1946894201
SNP_P4_99194_33457698	NC_021166.1	Ca_kabuli_chr07	33457698	CC	TT	1946894203
SNP_P4_99195_33458527	NC_021166.1	Ca_kabuli_chr07	33458527	TT	CC	1946894205
SNP_P4_99196_33466927	NC_021166.1	Ca_kabuli_chr07	33466927	GG	CC	1946894207
SNP_P4_99198_33468252	NC_021166.1	Ca_kabuli_chr07	33468252	AA	GG	1946894209
SNP_P4_99199_33470521	NC_021166.1	Ca_kabuli_chr07	33470521	CC	AA	1946894211
SNP_P4_99200_33471086	NC_021166.1	Ca_kabuli_chr07	33471086	AA	CC	1946894213
SNP_P4_99201_33472184	NC_021166.1	Ca_kabuli_chr07	33472184	GG	TT	1946894215
SNP_P4_99202_33472258	NC_021166.1	Ca_kabuli_chr07	33472258	TT	CC	1946894217
SNP_P4_99203_33472260	NC_021166.1	Ca_kabuli_chr07	33472260	TT	CC	1946894219
SNP_P4_99205_33472822	NC_021166.1	Ca_kabuli_chr07	33472822	AA	TT	1946894221
SNP_P4_99206_33472839	NC_021166.1	Ca_kabuli_chr07	33472839	TT	AA	1946894223
SNP_P4_99207_33472841	NC_021166.1	Ca_kabuli_chr07	33472841	TT	CC	1946894225
SNP_P4_99208_33472842	NC_021166.1	Ca_kabuli_chr07	33472842	GG	AA	1946894227
SNP_P4_99209_33472847	NC_021166.1	Ca_kabuli_chr07	33472847	TT	AA	1946894229
SNP_P4_99210_33472855	NC_021166.1	Ca_kabuli_chr07	33472855	CC	TT	1946894231
SNP_P4_99212_33473227	NC_021166.1	Ca_kabuli_chr07	33473227	TT	AA	1946894233
SNP_P4_99213_33473266	NC_021166.1	Ca_kabuli_chr07	33473266	CC	GG	1946894235
SNP_P4_99214_33474923	NC_021166.1	Ca_kabuli_chr07	33474923	TT	AA	1946894237
SNP_P4_99215_33475156	NC_021166.1	Ca_kabuli_chr07	33475156	CC	TT	1946894239

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_99218_33475276	NC_021166.1	Ca_kabuli_chr07	33475276	GG	AA	1946894243
SNP_P4_99219_33475417	NC_021166.1	Ca_kabuli_chr07	33475417	GG	AA	1946894245
SNP_P4_99220_33475474	NC_021166.1	Ca_kabuli_chr07	33475474	CC	TT	1946894247
SNP_P4_99221_33477325	NC_021166.1	Ca_kabuli_chr07	33477325	AA	GG	1946894249
SNP_P4_99222_33477590	NC_021166.1	Ca_kabuli_chr07	33477590	GG	AA	1946894251
SNP_P4_99223_33477599	NC_021166.1	Ca_kabuli_chr07	33477599	TT	CC	1946894253
SNP_P4_99224_33478014	NC_021166.1	Ca_kabuli_chr07	33478014	AA	GG	1946894255
SNP_P4_99225_33478020	NC_021166.1	Ca_kabuli_chr07	33478020	GG	AA	1946894258
SNP_P4_99226_33478027	NC_021166.1	Ca_kabuli_chr07	33478027	TT	AA	1946894260
SNP_P4_99227_33478044	NC_021166.1	Ca_kabuli_chr07	33478044	CC	TT	1946894262
SNP_P4_99228_33478200	NC_021166.1	Ca_kabuli_chr07	33478200	CC	TT	1946894264
SNP_P4_99229_33478257	NC_021166.1	Ca_kabuli_chr07	33478257	GG	AA	1946894266
SNP_P4_99230_33478259	NC_021166.1	Ca_kabuli_chr07	33478259	AA	GG	1946894268
SNP_P4_99231_33478405	NC_021166.1	Ca_kabuli_chr07	33478405	GG	AA	1946894270
SNP_P4_99232_33478435	NC_021166.1	Ca_kabuli_chr07	33478435	GG	AA	1946894272
SNP_P4_99233_33478550	NC_021166.1	Ca_kabuli_chr07	33478550	TT	AA	1946894274
SNP_P4_99235_33478870	NC_021166.1	Ca_kabuli_chr07	33478870	AA	TT	1946894276
SNP_P4_99237_33479503	NC_021166.1	Ca_kabuli_chr07	33479503	TT	CC	1946894278
SNP_P4_99238_33479510	NC_021166.1	Ca_kabuli_chr07	33479510	TT	GG	1946894280
SNP_P4_99240_33479849	NC_021166.1	Ca_kabuli_chr07	33479849	TT	CC	1946894283
SNP_P4_99241_33482313	NC_021166.1	Ca_kabuli_chr07	33482313	CC	TT	1946894285
SNP_P4_99242_33482321	NC_021166.1	Ca_kabuli_chr07	33482321	AA	TT	1946894287
SNP_P4_99243_33482383	NC_021166.1	Ca_kabuli_chr07	33482383	AA	CC	1946894289
SNP_P4_99244_33482409	NC_021166.1	Ca_kabuli_chr07	33482409	AA	TT	1946894291
SNP_P4_99245_33482438	NC_021166.1	Ca_kabuli_chr07	33482438	CC	GG	1946894293
SNP_P4_99246_33482664	NC_021166.1	Ca_kabuli_chr07	33482664	TT	GG	1946894295
SNP_P4_99247_33482689	NC_021166.1	Ca_kabuli_chr07	33482689	GG	TT	1946894297
SNP_P4_99248_33483594	NC_021166.1	Ca_kabuli_chr07	33483594	CC	TT	1946894299
SNP_P4_99249_33483610	NC_021166.1	Ca_kabuli_chr07	33483610	TT	CC	1946894301
SNP_P4_99250_33483657	NC_021166.1	Ca_kabuli_chr07	33483657	AA	TT	1946894303
SNP_P4_99251_33483659	NC_021166.1	Ca_kabuli_chr07	33483659	TT	AA	1946894305
SNP_P4_99253_33483687	NC_021166.1	Ca_kabuli_chr07	33483687	GG	TT	1946894307
SNP_P4_99254_33485624	NC_021166.1	Ca_kabuli_chr07	33485624	TT	GG	1946894309
SNP_P4_99257_33489799	NC_021166.1	Ca_kabuli_chr07	33489799	CC	TT	1946894311
SNP_P4_99258_33489836	NC_021166.1	Ca_kabuli_chr07	33489836	GG	CC	1946894313
SNP_P4_99259_33489839	NC_021166.1	Ca_kabuli_chr07	33489839	GG	AA	1946894315
SNP_P4_99261_33490105	NC_021166.1	Ca_kabuli_chr07	33490105	CC	TT	1946894317
SNP_P4_99264_33490488	NC_021166.1	Ca_kabuli_chr07	33490488	CC	TT	1946894319
SNP_P4_99266_33490724	NC_021166.1	Ca_kabuli_chr07	33490724	CC	TT	1946894321
SNP_P4_99267_33490783	NC_021166.1	Ca_kabuli_chr07	33490783	AA	GG	1946894323
SNP_P4_99268_33518078	NC_021166.1	Ca_kabuli_chr07	33518078	AA	GG	1946894326

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_99270_33518325	NC_021166.1	Ca_kabuli_chr07	33518325	AA	GG	1946894330
SNP_P4_99271_33519913	NC_021166.1	Ca_kabuli_chr07	33519913	GG	CC	1946894332
SNP_P4_99273_33520488	NC_021166.1	Ca_kabuli_chr07	33520488	AA	GG	1946894334
SNP_P4_99274_33520540	NC_021166.1	Ca_kabuli_chr07	33520540	AA	CC	1946894336
SNP_P4_99275_33520541	NC_021166.1	Ca_kabuli_chr07	33520541	CC	TT	1946894338
SNP_P4_99277_33521440	NC_021166.1	Ca_kabuli_chr07	33521440	GG	TT	1946894340
SNP_P4_99278_33521607	NC_021166.1	Ca_kabuli_chr07	33521607	TT	CC	1946894342
SNP_P4_99279_33521631	NC_021166.1	Ca_kabuli_chr07	33521631	TT	GG	1946894344
SNP_P4_99280_33521800	NC_021166.1	Ca_kabuli_chr07	33521800	TT	GG	1946894346
SNP_P4_99281_33521951	NC_021166.1	Ca_kabuli_chr07	33521951	AA	GG	1946894348
SNP_P4_99282_33522028	NC_021166.1	Ca_kabuli_chr07	33522028	CC	TT	1946894350
SNP_P4_99283_33523353	NC_021166.1	Ca_kabuli_chr07	33523353	TT	CC	1946894351
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SNP_P4_99285_33524733	NC_021166.1	Ca_kabuli_chr07	33524733	AA	GG	1946894355
SNP_P4_99286_33524820	NC_021166.1	Ca_kabuli_chr07	33524820	AA	TT	1946894357
SNP_P4_99288_33525489	NC_021166.1	Ca_kabuli_chr07	33525489	GG	AA	1946894359
SNP_P4_99289_33525818	NC_021166.1	Ca_kabuli_chr07	33525818	GG	TT	1946894361
SNP_P4_99290_33526389	NC_021166.1	Ca_kabuli_chr07	33526389	AA	CC	1946894363
SNP_P4_99291_33526651	NC_021166.1	Ca_kabuli_chr07	33526651	AA	GG	1946894365
SNP_P4_99293_33526963	NC_021166.1	Ca_kabuli_chr07	33526963	AA	GG	1946894367
SNP_P4_99296_33527948	NC_021166.1	Ca_kabuli_chr07	33527948	TT	AA	1946894368
SNP_P4_99297_33527955	NC_021166.1	Ca_kabuli_chr07	33527955	CC	TT	1946894370
SNP_P4_99298_33527960	NC_021166.1	Ca_kabuli_chr07	33527960	AA	TT	1946894372
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SNP_P4_99302_33528181	NC_021166.1	Ca_kabuli_chr07	33528181	AA	GG	1946894380
SNP_P4_99303_33528194	NC_021166.1	Ca_kabuli_chr07	33528194	GG	AA	1946894382
SNP_P4_99304_33528200	NC_021166.1	Ca_kabuli_chr07	33528200	AA	GG	1946894384
SNP_P4_99305_33528228	NC_021166.1	Ca_kabuli_chr07	33528228	AA	TT	1946894386
SNP_P4_99307_33528566	NC_021166.1	Ca_kabuli_chr07	33528566	AA	CC	1946894388
SNP_P4_99308_33529236	NC_021166.1	Ca_kabuli_chr07	33529236	TT	CC	1946894390
SNP_P4_99309_33529556	NC_021166.1	Ca_kabuli_chr07	33529556	GG	TT	1946894392
SNP_P4_99310_33531092	NC_021166.1	Ca_kabuli_chr07	33531092	TT	GG	1946894394
SNP_P4_99311_33531093	NC_021166.1	Ca_kabuli_chr07	33531093	AA	TT	1946894396
SNP_P4_99313_33532267	NC_021166.1	Ca_kabuli_chr07	33532267	AA	TT	1946894398
SNP_P4_99314_33532268	NC_021166.1	Ca_kabuli_chr07	33532268	AA	TT	1946894400
SNP_P4_99315_33533666	NC_021166.1	Ca_kabuli_chr07	33533666	TT	GG	1946894402
SNP_P4_99316_33533907	NC_021166.1	Ca_kabuli_chr07	33533907	AA	TT	1946894404
SNP_P4_99317_33534400	NC_021166.1	Ca_kabuli_chr07	33534400	TT	AA	1946894407
SNP_P4_99318_33534402	NC_021166.1	Ca_kabuli_chr07	33534402	TT	CC	1946894409

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_99321_33535588	NC_021166.1	Ca_kabuli_chr07	33535588	TT	AA	1946894414
SNP_P4_99322_33535593	NC_021166.1	Ca_kabuli_chr07	33535593	CC	TT	1946894416
SNP_P4_99323_33535626	NC_021166.1	Ca_kabuli_chr07	33535626	CC	GG	1946894418
SNP_P4_99324_33535639	NC_021166.1	Ca_kabuli_chr07	33535639	TT	CC	1946894420
SNP_P4_99325_33535655	NC_021166.1	Ca_kabuli_chr07	33535655	CC	TT	1946894422
SNP_P4_99326_33535665	NC_021166.1	Ca_kabuli_chr07	33535665	TT	AA	1946894424
SNP_P4_99327_33535674	NC_021166.1	Ca_kabuli_chr07	33535674	TT	CC	1946894426
SNP_P4_99328_33535681	NC_021166.1	Ca_kabuli_chr07	33535681	TT	CC	1946894428
SNP_P4_99329_33535689	NC_021166.1	Ca_kabuli_chr07	33535689	CC	GG	1946894430
SNP_P4_99330_33535923	NC_021166.1	Ca_kabuli_chr07	33535923	AA	TT	1946894432
SNP_P4_99332_33535995	NC_021166.1	Ca_kabuli_chr07	33535995	AA	GG	1946894434
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SNP_P4_99334_33536013	NC_021166.1	Ca_kabuli_chr07	33536013	CC	GG	1946894438
SNP_P4_99336_33536243	NC_021166.1	Ca_kabuli_chr07	33536243	GG	AA	1946894440
SNP_P4_99337_33536255	NC_021166.1	Ca_kabuli_chr07	33536255	AA	CC	1946894442
SNP_P4_99338_33536328	NC_021166.1	Ca_kabuli_chr07	33536328	TT	CC	1946894444
SNP_P4_99339_33536967	NC_021166.1	Ca_kabuli_chr07	33536967	CC	TT	1946894446
SNP_P4_99340_33537414	NC_021166.1	Ca_kabuli_chr07	33537414	AA	GG	1946894448
SNP_P4_99342_33537698	NC_021166.1	Ca_kabuli_chr07	33537698	GG	AA	1946894450
SNP_P4_99343_33537871	NC_021166.1	Ca_kabuli_chr07	33537871	TT	AA	1946894452
SNP_P4_99345_33538183	NC_021166.1	Ca_kabuli_chr07	33538183	CC	AA	1946894454
SNP_P4_99346_33538187	NC_021166.1	Ca_kabuli_chr07	33538187	TT	AA	1946894456
SNP_P4_99347_33538447	NC_021166.1	Ca_kabuli_chr07	33538447	TT	CC	1946894458
SNP_P4_99349_33539142	NC_021166.1	Ca_kabuli_chr07	33539142	AA	CC	1946894460
SNP_P4_99350_33539495	NC_021166.1	Ca_kabuli_chr07	33539495	GG	AA	1946894462
SNP_P4_99353_33539804	NC_021166.1	Ca_kabuli_chr07	33539804	GG	CC	1946894464
SNP_P4_99354_33540960	NC_021166.1	Ca_kabuli_chr07	33540960	TT	CC	1946894466
SNP_P4_99355_33540961	NC_021166.1	Ca_kabuli_chr07	33540961	AA	GG	1946894468
SNP_P4_99356_33541005	NC_021166.1	Ca_kabuli_chr07	33541005	AA	GG	1946894470
SNP_P4_99357_33542021	NC_021166.1	Ca_kabuli_chr07	33542021	AA	CC	1946894472
SNP_P4_99358_33542026	NC_021166.1	Ca_kabuli_chr07	33542026	GG	TT	1946894474
SNP_P4_99359_33542123	NC_021166.1	Ca_kabuli_chr07	33542123	AA	TT	1946894476
SNP_P4_99360_33542241	NC_021166.1	Ca_kabuli_chr07	33542241	GG	CC	1946894478
SNP_P4_99361_33545163	NC_021166.1	Ca_kabuli_chr07	33545163	GG	AA	1946894480
SNP_P4_99362_33545204	NC_021166.1	Ca_kabuli_chr07	33545204	TT	CC	1946894482
SNP_P4_99364_33548240	NC_021166.1	Ca_kabuli_chr07	33548240	AA	GG	1946894484
SNP_P4_99365_33554433	NC_021166.1	Ca_kabuli_chr07	33554433	GG	AA	1946894486
SNP_P4_99366_33554476	NC_021166.1	Ca_kabuli_chr07	33554476	CC	TT	1946894488
SNP_P4_99369_33557237	NC_021166.1	Ca_kabuli_chr07	33557237	TT	CC	1946894490
SNP_P4_99371_33557531	NC_021166.1	Ca_kabuli_chr07	33557531	CC	TT	1946894492
SNP_P4_99373_33558484	NC_021166.1	Ca_kabuli_chr07	33558484	TT	CC	1946894494

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_99374_33558528	NC_021166.1	Ca_kabuli_chr07	33558528	GG	TT	1946894496
SNP_P4_99375_33558530	NC_021166.1	Ca_kabuli_chr07	33558530	TT	CC	1946894498
SNP_P4_99376_33559608	NC_021166.1	Ca_kabuli_chr07	33559608	AA	CC	1946894500
SNP_P4_99377_33559908	NC_021166.1	Ca_kabuli_chr07	33559908	CC	TT	1946894502
SNP_P4_99378_33559939	NC_021166.1	Ca_kabuli_chr07	33559939	GG	TT	1946894504
SNP_P4_99379_33560203	NC_021166.1	Ca_kabuli_chr07	33560203	TT	CC	1946894506
SNP_P4_99380_33560263	NC_021166.1	Ca_kabuli_chr07	33560263	AA	CC	1946894508
SNP_P4_99382_33560736	NC_021166.1	Ca_kabuli_chr07	33560736	TT	CC	1946894510
SNP_P4_99383_33560741	NC_021166.1	Ca_kabuli_chr07	33560741	GG	AA	1946894512
SNP_P4_99384_33560745	NC_021166.1	Ca_kabuli_chr07	33560745	GG	CC	1946894514
SNP_P4_99385_33560817	NC_021166.1	Ca_kabuli_chr07	33560817	CC	TT	1946894516
SNP_P4_99387_33561604	NC_021166.1	Ca_kabuli_chr07	33561604	GG	AA	1946894518
SNP_P4_99388_33562079	NC_021166.1	Ca_kabuli_chr07	33562079	TT	CC	1946894520
SNP_P4_99389_33562113	NC_021166.1	Ca_kabuli_chr07	33562113	TT	CC	1946894522
SNP_P4_99391_33564945	NC_021166.1	Ca_kabuli_chr07	33564945	CC	AA	1946894524
SNP_P4_99392_33565585	NC_021166.1	Ca_kabuli_chr07	33565585	GG	CC	1946894526
SNP_P4_99393_33565962	NC_021166.1	Ca_kabuli_chr07	33565962	GG	AA	1946894528
SNP_P4_99394_33566257	NC_021166.1	Ca_kabuli_chr07	33566257	AA	TT	1946894530
SNP_P4_99395_33567937	NC_021166.1	Ca_kabuli_chr07	33567937	CC	TT	1946894532
SNP_P4_99396_33567965	NC_021166.1	Ca_kabuli_chr07	33567965	GG	AA	1946894534
SNP_P4_99397_33568869	NC_021166.1	Ca_kabuli_chr07	33568869	TT	AA	1946894536
SNP_P4_99398_33569677	NC_021166.1	Ca_kabuli_chr07	33569677	CC	AA	1946894538
SNP_P4_99399_33573467	NC_021166.1	Ca_kabuli_chr07	33573467	TT	CC	1946894540
SNP_P4_99400_33573575	NC_021166.1	Ca_kabuli_chr07	33573575	TT	CC	1946894542
SNP_P4_99401_33574938	NC_021166.1	Ca_kabuli_chr07	33574938	TT	AA	1946894544
SNP_P4_99402_33574992	NC_021166.1	Ca_kabuli_chr07	33574992	CC	TT	1946894546
SNP_P4_99403_33575039	NC_021166.1	Ca_kabuli_chr07	33575039	CC	GG	1946894548
SNP_P4_99404_33575054	NC_021166.1	Ca_kabuli_chr07	33575054	AA	GG	1946894550
SNP_P4_99405_33575172	NC_021166.1	Ca_kabuli_chr07	33575172	GG	AA	1946894552
SNP_P4_99407_33575297	NC_021166.1	Ca_kabuli_chr07	33575297	GG	CC	1946894554
SNP_P4_99408_33575760	NC_021166.1	Ca_kabuli_chr07	33575760	TT	CC	1946894556
SNP_P4_99409_33575761	NC_021166.1	Ca_kabuli_chr07	33575761	GG	AA	1946894558
SNP_P4_99410_33575858	NC_021166.1	Ca_kabuli_chr07	33575858	GG	AA	1946894560
SNP_P4_99411_33575862	NC_021166.1	Ca_kabuli_chr07	33575862	GG	AA	1946894562
SNP_P4_99413_33576391	NC_021166.1	Ca_kabuli_chr07	33576391	GG	CC	1946894564
SNP_P4_99414_33576486	NC_021166.1	Ca_kabuli_chr07	33576486	TT	GG	1946894566
SNP_P4_99415_33576487	NC_021166.1	Ca_kabuli_chr07	33576487	CC	TT	1946894568
SNP_P4_99416_33576524	NC_021166.1	Ca_kabuli_chr07	33576524	AA	GG	1946894570
SNP_P4_99417_33578643	NC_021166.1	Ca_kabuli_chr07	33578643	TT	AA	1946894572
SNP_P4_99418_33578898	NC_021166.1	Ca_kabuli_chr07	33578898	AA	GG	1946894574
SNP_P4_99419_33579079	NC_021166.1	Ca_kabuli_chr07	33579079	CC	GG	1946894576
SNP_P4_99420_33579300	NC_021166.1	Ca_kabuli_chr07	33579300	TT	CC	1946894578

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_99422_33580881	NC_021166.1	Ca_kabuli_chr07	33580881	GG	AA	1946894583
SNP_P4_99423_33582804	NC_021166.1	Ca_kabuli_chr07	33582804	TT	GG	1946894585
SNP_P4_99424_33585001	NC_021166.1	Ca_kabuli_chr07	33585001	AA	TT	1946894587
SNP_P4_99428_33586799	NC_021166.1	Ca_kabuli_chr07	33586799	AA	GG	1946894589
SNP_P4_99429_33586828	NC_021166.1	Ca_kabuli_chr07	33586828	AA	TT	1946894591
SNP_P4_99431_33587877	NC_021166.1	Ca_kabuli_chr07	33587877	GG	AA	1946894593
SNP_P4_99432_33588837	NC_021166.1	Ca_kabuli_chr07	33588837	GG	AA	1946894595
SNP_P4_99433_33591890	NC_021166.1	Ca_kabuli_chr07	33591890	AA	TT	1946894597
SNP_P4_99434_33592469	NC_021166.1	Ca_kabuli_chr07	33592469	AA	TT	1946894599
SNP_P4_99435_33592497	NC_021166.1	Ca_kabuli_chr07	33592497	AA	GG	1946894601
SNP_P4_99436_33593688	NC_021166.1	Ca_kabuli_chr07	33593688	AA	GG	1946894603
SNP_P4_99437_33593970	NC_021166.1	Ca_kabuli_chr07	33593970	CC	GG	1946894605
SNP_P4_99438_33593985	NC_021166.1	Ca_kabuli_chr07	33593985	TT	CC	1946894607
SNP_P4_99439_33594036	NC_021166.1	Ca_kabuli_chr07	33594036	CC	TT	1946894609
SNP_P4_99440_33594199	NC_021166.1	Ca_kabuli_chr07	33594199	AA	CC	1946894611
SNP_P4_99441_33596382	NC_021166.1	Ca_kabuli_chr07	33596382	CC	TT	1946894613
SNP_P4_99442_33596731	NC_021166.1	Ca_kabuli_chr07	33596731	AA	TT	1946894615
SNP_P4_99443_33596785	NC_021166.1	Ca_kabuli_chr07	33596785	AA	GG	1946894617
SNP_P4_99444_33597282	NC_021166.1	Ca_kabuli_chr07	33597282	TT	AA	1946894619
SNP_P4_99445_33597324	NC_021166.1	Ca_kabuli_chr07	33597324	GG	CC	1946894621
SNP_P4_99447_33597403	NC_021166.1	Ca_kabuli_chr07	33597403	AA	GG	1946894623
SNP_P4_99451_33597778	NC_021166.1	Ca_kabuli_chr07	33597778	AA	TT	1946894625
SNP_P4_99452_33597833	NC_021166.1	Ca_kabuli_chr07	33597833	CC	TT	1946894627
SNP_P4_99453_33597890	NC_021166.1	Ca_kabuli_chr07	33597890	TT	AA	1946894629
SNP_P4_99455_33605611	NC_021166.1	Ca_kabuli_chr07	33605611	AA	CC	1946894631
SNP_P4_99456_33605646	NC_021166.1	Ca_kabuli_chr07	33605646	AA	TT	1946894633
SNP_P4_99458_33605881	NC_021166.1	Ca_kabuli_chr07	33605881	TT	GG	1946894635
SNP_P4_99459_33605888	NC_021166.1	Ca_kabuli_chr07	33605888	AA	GG	1946894637
SNP_P4_99461_33606481	NC_021166.1	Ca_kabuli_chr07	33606481	CC	GG	1946894639
SNP_P4_99463_33606659	NC_021166.1	Ca_kabuli_chr07	33606659	AA	CC	1946894641
SNP_P4_99464_33606685	NC_021166.1	Ca_kabuli_chr07	33606685	GG	TT	1946894643
SNP_P4_99466_33606936	NC_021166.1	Ca_kabuli_chr07	33606936	CC	AA	1946894645
SNP_P4_99467_33606971	NC_021166.1	Ca_kabuli_chr07	33606971	GG	AA	1946894647
SNP_P4_99468_33607268	NC_021166.1	Ca_kabuli_chr07	33607268	CC	AA	1946894649
SNP_P4_99469_33608012	NC_021166.1	Ca_kabuli_chr07	33608012	TT	CC	1946894651
SNP_P4_99470_33608024	NC_021166.1	Ca_kabuli_chr07	33608024	GG	AA	1946894653
SNP_P4_99471_33608098	NC_021166.1	Ca_kabuli_chr07	33608098	TT	CC	1946894655
SNP_P4_99472_33608133	NC_021166.1	Ca_kabuli_chr07	33608133	CC	AA	1946894657
SNP_P4_99473_33608252	NC_021166.1	Ca_kabuli_chr07	33608252	AA	CC	1946894659
SNP_P4_99475_33608390	NC_021166.1	Ca_kabuli_chr07	33608390	TT	GG	1946894661
SNP_P4_99477_33612737	NC_021166.1	Ca_kabuli_chr07	33612737	GG	AA	1946894663

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_99479_33613328	NC_021166.1	Ca_kabuli_chr07	33613328	AA	GG	1946894667
SNP_P4_99480_33614130	NC_021166.1	Ca_kabuli_chr07	33614130	TT	GG	1946894669
SNP_P4_99481_33614288	NC_021166.1	Ca_kabuli_chr07	33614288	TT	CC	1946894671
SNP_P4_99482_33614289	NC_021166.1	Ca_kabuli_chr07	33614289	TT	CC	1946894673
SNP_P4_99483_33614387	NC_021166.1	Ca_kabuli_chr07	33614387	GG	AA	1946894675
SNP_P4_99484_33618013	NC_021166.1	Ca_kabuli_chr07	33618013	TT	GG	1946894677
SNP_P4_99486_33618061	NC_021166.1	Ca_kabuli_chr07	33618061	GG	TT	1946894679
SNP_P4_99487_33621869	NC_021166.1	Ca_kabuli_chr07	33621869	AA	GG	1946894681
SNP_P4_99488_33622081	NC_021166.1	Ca_kabuli_chr07	33622081	TT	CC	1946894683
SNP_P4_99489_33622096	NC_021166.1	Ca_kabuli_chr07	33622096	AA	GG	1946894685
SNP_P4_99490_33622220	NC_021166.1	Ca_kabuli_chr07	33622220	CC	AA	1946894687
SNP_P4_99492_33622412	NC_021166.1	Ca_kabuli_chr07	33622412	TT	GG	1946894689
SNP_P4_99493_33624596	NC_021166.1	Ca_kabuli_chr07	33624596	AA	GG	1946894691
SNP_P4_99494_33625075	NC_021166.1	Ca_kabuli_chr07	33625075	TT	AA	1946894693
SNP_P4_99495_33625348	NC_021166.1	Ca_kabuli_chr07	33625348	CC	GG	1946894695
SNP_P4_99496_33625689	NC_021166.1	Ca_kabuli_chr07	33625689	AA	GG	1946894697
SNP_P4_99497_33625697	NC_021166.1	Ca_kabuli_chr07	33625697	AA	CC	1946894699
SNP_P4_99498_33626527	NC_021166.1	Ca_kabuli_chr07	33626527	CC	TT	1946894701
SNP_P4_99499_33626914	NC_021166.1	Ca_kabuli_chr07	33626914	GG	TT	1946894703
SNP_P4_99500_33626916	NC_021166.1	Ca_kabuli_chr07	33626916	CC	AA	1946894705
SNP_P4_99501_33627254	NC_021166.1	Ca_kabuli_chr07	33627254	GG	AA	1946894707
SNP_P4_99502_33627314	NC_021166.1	Ca_kabuli_chr07	33627314	CC	TT	1946894709
SNP_P4_99503_33630268	NC_021166.1	Ca_kabuli_chr07	33630268	CC	GG	1946894711
SNP_P4_99504_33630302	NC_021166.1	Ca_kabuli_chr07	33630302	TT	AA	1946894713
SNP_P4_99505_33630524	NC_021166.1	Ca_kabuli_chr07	33630524	CC	TT	1946894715
SNP_P4_99507_33630584	NC_021166.1	Ca_kabuli_chr07	33630584	CC	GG	1946894717
SNP_P4_99508_33630632	NC_021166.1	Ca_kabuli_chr07	33630632	GG	TT	1946894719
SNP_P4_99509_33630643	NC_021166.1	Ca_kabuli_chr07	33630643	AA	TT	1946894721
SNP_P4_99511_33631155	NC_021166.1	Ca_kabuli_chr07	33631155	TT	CC	1946894723
SNP_P4_99512_33631160	NC_021166.1	Ca_kabuli_chr07	33631160	CC	TT	1946894725
SNP_P4_99513_33631462	NC_021166.1	Ca_kabuli_chr07	33631462	GG	AA	1946894727
SNP_P4_99514_33631485	NC_021166.1	Ca_kabuli_chr07	33631485	AA	GG	1946894729
SNP_P4_99515_33631498	NC_021166.1	Ca_kabuli_chr07	33631498	CC	TT	1946894731
SNP_P4_99516_33631501	NC_021166.1	Ca_kabuli_chr07	33631501	GG	AA	1946894733
SNP_P4_99518_33633720	NC_021166.1	Ca_kabuli_chr07	33633720	TT	CC	1946894735
SNP_P4_99519_33633794	NC_021166.1	Ca_kabuli_chr07	33633794	GG	CC	1946894737
SNP_P4_99520_33633859	NC_021166.1	Ca_kabuli_chr07	33633859	GG	AA	1946894739
SNP_P4_99521_33634068	NC_021166.1	Ca_kabuli_chr07	33634068	CC	TT	1946894741
SNP_P4_99522_33634088	NC_021166.1	Ca_kabuli_chr07	33634088	CC	TT	1946894743
SNP_P4_99523_33636700	NC_021166.1	Ca_kabuli_chr07	33636700	AA	GG	1946894746
SNP_P4_99524_33636706	NC_021166.1	Ca_kabuli_chr07	33636706	CC	TT	1946894748

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_99525_33636714	NC_021166.1	Ca_kabuli_chr07	33636714	TT	GG	1946894750
SNP_P4_99527_33637517	NC_021166.1	Ca_kabuli_chr07	33637517	TT	CC	1946894752
SNP_P4_99529_33638798	NC_021166.1	Ca_kabuli_chr07	33638798	TT	AA	1946894754
SNP_P4_99531_33639271	NC_021166.1	Ca_kabuli_chr07	33639271	AA	TT	1946894756
SNP_P4_99532_33640019	NC_021166.1	Ca_kabuli_chr07	33640019	AA	TT	1946894758
SNP_P4_99536_33640168	NC_021166.1	Ca_kabuli_chr07	33640168	AA	TT	1946894760
SNP_P4_99537_33640263	NC_021166.1	Ca_kabuli_chr07	33640263	TT	CC	1946894762
SNP_P4_99538_33640280	NC_021166.1	Ca_kabuli_chr07	33640280	AA	TT	1946894764
SNP_P4_99539_33640295	NC_021166.1	Ca_kabuli_chr07	33640295	AA	TT	1946894766
SNP_P4_99540_33640340	NC_021166.1	Ca_kabuli_chr07	33640340	AA	TT	1946894768
SNP_P4_99541_33640397	NC_021166.1	Ca_kabuli_chr07	33640397	TT	CC	1946894771
SNP_P4_99542_33640556	NC_021166.1	Ca_kabuli_chr07	33640556	GG	CC	1946894773
SNP_P4_99545_33642965	NC_021166.1	Ca_kabuli_chr07	33642965	GG	AA	1946894775
SNP_P4_99548_33644693	NC_021166.1	Ca_kabuli_chr07	33644693	GG	CC	1946894777
SNP_P4_99549_33644697	NC_021166.1	Ca_kabuli_chr07	33644697	CC	TT	1946894779
SNP_P4_99550_33644910	NC_021166.1	Ca_kabuli_chr07	33644910	TT	AA	1946894781
SNP_P4_99551_33644967	NC_021166.1	Ca_kabuli_chr07	33644967	AA	GG	1946894783
SNP_P4_99553_33645104	NC_021166.1	Ca_kabuli_chr07	33645104	GG	AA	1946894785
SNP_P4_99554_33645150	NC_021166.1	Ca_kabuli_chr07	33645150	AA	CC	1946894787
SNP_P4_99557_33645486	NC_021166.1	Ca_kabuli_chr07	33645486	CC	TT	1946894789
SNP_P4_99558_33647278	NC_021166.1	Ca_kabuli_chr07	33647278	CC	TT	1946894791
SNP_P4_99564_33649683	NC_021166.1	Ca_kabuli_chr07	33649683	CC	TT	1946894793
SNP_P4_99565_33649688	NC_021166.1	Ca_kabuli_chr07	33649688	CC	TT	1946894795
SNP_P4_99566_33649702	NC_021166.1	Ca_kabuli_chr07	33649702	AA	CC	1946894797
SNP_P4_99567_33649745	NC_021166.1	Ca_kabuli_chr07	33649745	TT	AA	1946894799
SNP_P4_99568_33649746	NC_021166.1	Ca_kabuli_chr07	33649746	TT	AA	1946894801
SNP_P4_99569_33649757	NC_021166.1	Ca_kabuli_chr07	33649757	CC	TT	1946894802
SNP_P4_99570_33650078	NC_021166.1	Ca_kabuli_chr07	33650078	TT	GG	1946894804
SNP_P4_99571_33650229	NC_021166.1	Ca_kabuli_chr07	33650229	CC	AA	1946894806
SNP_P4_99572_33650556	NC_021166.1	Ca_kabuli_chr07	33650556	TT	CC	1946894808
SNP_P4_99573_33650985	NC_021166.1	Ca_kabuli_chr07	33650985	AA	GG	1946894810
SNP_P4_99574_33651030	NC_021166.1	Ca_kabuli_chr07	33651030	TT	CC	1946894812
SNP_P4_99575_33651309	NC_021166.1	Ca_kabuli_chr07	33651309	TT	CC	1946894814
SNP_P4_99576_33651498	NC_021166.1	Ca_kabuli_chr07	33651498	GG	AA	1946894816
SNP_P4_99577_33651593	NC_021166.1	Ca_kabuli_chr07	33651593	AA	GG	1946894818
SNP_P4_99578_33652061	NC_021166.1	Ca_kabuli_chr07	33652061	GG	TT	1946894820
SNP_P4_99579_33652074	NC_021166.1	Ca_kabuli_chr07	33652074	GG	TT	1946894822
SNP_P4_99580_33652085	NC_021166.1	Ca_kabuli_chr07	33652085	CC	GG	1946894824
SNP_P4_99582_33654086	NC_021166.1	Ca_kabuli_chr07	33654086	AA	GG	1946894826
SNP_P4_99583_33655482	NC_021166.1	Ca_kabuli_chr07	33655482	GG	AA	1946894828
SNP_P4_99584_33655515	NC_021166.1	Ca_kabuli_chr07	33655515	GG	AA	1946894830
SNP_P4_99585_33655777	NC_021166.1	Ca_kabuli_chr07	33655777	GG	AA	1946894832

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_99587_33655907	NC_021166.1	Ca_kabuli_chr07	33655907	TT	AA	1946894836
SNP_P4_99589_33656080	NC_021166.1	Ca_kabuli_chr07	33656080	TT	CC	1946894838
SNP_P4_99590_33656469	NC_021166.1	Ca_kabuli_chr07	33656469	AA	GG	1946894840
SNP_P4_99591_33656620	NC_021166.1	Ca_kabuli_chr07	33656620	AA	CC	1946894842
SNP_P4_99592_33657687	NC_021166.1	Ca_kabuli_chr07	33657687	GG	AA	1946894844
SNP_P4_99593_33657688	NC_021166.1	Ca_kabuli_chr07	33657688	GG	AA	1946894846
SNP_P4_99594_33657742	NC_021166.1	Ca_kabuli_chr07	33657742	GG	TT	1946894848
SNP_P4_99595_33659468	NC_021166.1	Ca_kabuli_chr07	33659468	AA	GG	1946894850
SNP_P4_99596_33659749	NC_021166.1	Ca_kabuli_chr07	33659749	GG	AA	1946894852
SNP_P4_99597_33659780	NC_021166.1	Ca_kabuli_chr07	33659780	AA	TT	1946894854
SNP_P4_99598_33660096	NC_021166.1	Ca_kabuli_chr07	33660096	CC	AA	1946894856
SNP_P4_99600_33661659	NC_021166.1	Ca_kabuli_chr07	33661659	CC	TT	1946894858
SNP_P4_99601_33661677	NC_021166.1	Ca_kabuli_chr07	33661677	TT	CC	1946894860
SNP_P4_99603_33661694	NC_021166.1	Ca_kabuli_chr07	33661694	TT	CC	1946894862
SNP_P4_99604_33661751	NC_021166.1	Ca_kabuli_chr07	33661751	GG	AA	1946894864
SNP_P4_99605_33661753	NC_021166.1	Ca_kabuli_chr07	33661753	TT	CC	1946894866
SNP_P4_99606_33661965	NC_021166.1	Ca_kabuli_chr07	33661965	TT	CC	1946894868
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SNP_P4_99612_33665239	NC_021166.1	Ca_kabuli_chr07	33665239	TT	CC	1946894878
SNP_P4_99613_33665255	NC_021166.1	Ca_kabuli_chr07	33665255	AA	GG	1946894880
SNP_P4_99614_33665287	NC_021166.1	Ca_kabuli_chr07	33665287	AA	GG	1946894882
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SNP_P4_99617_33665739	NC_021166.1	Ca_kabuli_chr07	33665739	TT	CC	1946894888
SNP_P4_99618_33666124	NC_021166.1	Ca_kabuli_chr07	33666124	AA	GG	1946894890
SNP_P4_99619_33666164	NC_021166.1	Ca_kabuli_chr07	33666164	GG	AA	1946894892
SNP_P4_99620_33666175	NC_021166.1	Ca_kabuli_chr07	33666175	CC	AA	1946894894
SNP_P4_99621_33666196	NC_021166.1	Ca_kabuli_chr07	33666196	AA	GG	1946894896
SNP_P4_99622_33666453	NC_021166.1	Ca_kabuli_chr07	33666453	CC	GG	1946894898
SNP_P4_99623_33666819	NC_021166.1	Ca_kabuli_chr07	33666819	TT	CC	1946894900
SNP_P4_99624_33666884	NC_021166.1	Ca_kabuli_chr07	33666884	CC	AA	1946894902
SNP_P4_99625_33666887	NC_021166.1	Ca_kabuli_chr07	33666887	GG	AA	1946894905
SNP_P4_99626_33669639	NC_021166.1	Ca_kabuli_chr07	33669639	AA	GG	1946894907
SNP_P4_99627_33669852	NC_021166.1	Ca_kabuli_chr07	33669852	AA	CC	1946894909
SNP_P4_99628_33669923	NC_021166.1	Ca_kabuli_chr07	33669923	AA	CC	1946894911
SNP_P4_99630_33670485	NC_021166.1	Ca_kabuli_chr07	33670485	CC	TT	1946894913
SNP_P4_99631_33670701	NC_021166.1	Ca_kabuli_chr07	33670701	AA	CC	1946894915
SNP_P4_99632_33670781	NC_021166.1	Ca_kabuli_chr07	33670781	AA	GG	1946894917

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_99634_33670801	NC_021166.1	Ca_kabuli_chr07	33670801	TT	CC	1946894921
SNP_P4_99635_33670846	NC_021166.1	Ca_kabuli_chr07	33670846	AA	CC	1946894923
SNP_P4_99636_33670936	NC_021166.1	Ca_kabuli_chr07	33670936	GG	CC	1946894925
SNP_P4_99637_33671150	NC_021166.1	Ca_kabuli_chr07	33671150	GG	CC	1946894927
SNP_P4_99638_33671220	NC_021166.1	Ca_kabuli_chr07	33671220	TT	CC	1946894929
SNP_P4_99642_33671358	NC_021166.1	Ca_kabuli_chr07	33671358	GG	AA	1946894931
SNP_P4_99643_33676469	NC_021166.1	Ca_kabuli_chr07	33676469	AA	TT	1946894933
SNP_P4_99644_33676471	NC_021166.1	Ca_kabuli_chr07	33676471	CC	AA	1946894935
SNP_P4_99645_33676531	NC_021166.1	Ca_kabuli_chr07	33676531	TT	GG	1946894937
SNP_P4_99646_33676532	NC_021166.1	Ca_kabuli_chr07	33676532	CC	AA	1946894939
SNP_P4_99647_33676713	NC_021166.1	Ca_kabuli_chr07	33676713	AA	GG	1946894942
SNP_P4_99648_33676751	NC_021166.1	Ca_kabuli_chr07	33676751	AA	GG	1946894944
SNP_P4_99649_33676799	NC_021166.1	Ca_kabuli_chr07	33676799	TT	CC	1946894946
SNP_P4_99650_33676867	NC_021166.1	Ca_kabuli_chr07	33676867	TT	AA	1946894948
SNP_P4_99652_33682882	NC_021166.1	Ca_kabuli_chr07	33682882	CC	TT	1946894950
SNP_P4_99653_33682890	NC_021166.1	Ca_kabuli_chr07	33682890	CC	TT	1946894952
SNP_P4_99654_33682912	NC_021166.1	Ca_kabuli_chr07	33682912	AA	TT	1946894954
SNP_P4_99655_33683016	NC_021166.1	Ca_kabuli_chr07	33683016	CC	TT	1946894956
SNP_P4_99657_33683153	NC_021166.1	Ca_kabuli_chr07	33683153	AA	TT	1946894958
SNP_P4_99658_33683176	NC_021166.1	Ca_kabuli_chr07	33683176	TT	AA	1946894960
SNP_P4_99660_33683226	NC_021166.1	Ca_kabuli_chr07	33683226	AA	CC	1946894962
SNP_P4_99662_33683312	NC_021166.1	Ca_kabuli_chr07	33683312	AA	GG	1946894964
SNP_P4_99663_33683323	NC_021166.1	Ca_kabuli_chr07	33683323	AA	CC	1946894967
SNP_P4_99664_33683334	NC_021166.1	Ca_kabuli_chr07	33683334	TT	GG	1946894969
SNP_P4_99667_33684276	NC_021166.1	Ca_kabuli_chr07	33684276	GG	AA	1946894971
SNP_P4_99668_33684285	NC_021166.1	Ca_kabuli_chr07	33684285	TT	AA	1946894973
SNP_P4_99669_33684398	NC_021166.1	Ca_kabuli_chr07	33684398	CC	TT	1946894975
SNP_P4_99670_33684415	NC_021166.1	Ca_kabuli_chr07	33684415	GG	CC	1946894977
SNP_P4_99671_33684448	NC_021166.1	Ca_kabuli_chr07	33684448	TT	CC	1946894979
SNP_P4_99672_33697788	NC_021166.1	Ca_kabuli_chr07	33697788	TT	AA	1946894981
SNP_P4_99673_33697823	NC_021166.1	Ca_kabuli_chr07	33697823	GG	CC	1946894983
SNP_P4_99674_33698458	NC_021166.1	Ca_kabuli_chr07	33698458	AA	CC	1946894985
SNP_P4_99675_33698464	NC_021166.1	Ca_kabuli_chr07	33698464	AA	GG	1946894987
SNP_P4_99676_33698756	NC_021166.1	Ca_kabuli_chr07	33698756	TT	CC	1946894989
SNP_P4_99677_33698764	NC_021166.1	Ca_kabuli_chr07	33698764	TT	CC	1946894991
SNP_P4_99678_33698781	NC_021166.1	Ca_kabuli_chr07	33698781	CC	TT	1946894993
SNP_P4_99679_33698784	NC_021166.1	Ca_kabuli_chr07	33698784	TT	GG	1946894995
SNP_P4_99680_33698821	NC_021166.1	Ca_kabuli_chr07	33698821	CC	TT	1946894997
SNP_P4_99681_33699961	NC_021166.1	Ca_kabuli_chr07	33699961	GG	AA	1946894999
SNP_P4_99682_33700511	NC_021166.1	Ca_kabuli_chr07	33700511	AA	CC	1946895001
SNP_P4_99683_33700834	NC_021166.1	Ca_kabuli_chr07	33700834	CC	TT	1946895003

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_99685_33700955	NC_021166.1	Ca_kabuli_chr07	33700955	CC	TT	1946895007
SNP_P4_99686_33701162	NC_021166.1	Ca_kabuli_chr07	33701162	AA	CC	1946895009
SNP_P4_99687_33701181	NC_021166.1	Ca_kabuli_chr07	33701181	AA	GG	1946895011
SNP_P4_99688_33701461	NC_021166.1	Ca_kabuli_chr07	33701461	TT	CC	1946895013
SNP_P4_99689_33705047	NC_021166.1	Ca_kabuli_chr07	33705047	GG	AA	1946895015
SNP_P4_99690_33705571	NC_021166.1	Ca_kabuli_chr07	33705571	TT	CC	1946895017
SNP_P4_99691_33705807	NC_021166.1	Ca_kabuli_chr07	33705807	CC	TT	1946895019
SNP_P4_99692_33705854	NC_021166.1	Ca_kabuli_chr07	33705854	AA	GG	1946895021
SNP_P4_99693_33706256	NC_021166.1	Ca_kabuli_chr07	33706256	CC	TT	1946895023
SNP_P4_99694_33707105	NC_021166.1	Ca_kabuli_chr07	33707105	CC	TT	1946895025
SNP_P4_99695_33707126	NC_021166.1	Ca_kabuli_chr07	33707126	AA	GG	1946895027
SNP_P4_99696_33707225	NC_021166.1	Ca_kabuli_chr07	33707225	CC	TT	1946895029
SNP_P4_99697_33707556	NC_021166.1	Ca_kabuli_chr07	33707556	GG	TT	1946895031
SNP_P4_99698_33708132	NC_021166.1	Ca_kabuli_chr07	33708132	GG	AA	1946895033
SNP_P4_99699_33708161	NC_021166.1	Ca_kabuli_chr07	33708161	AA	GG	1946895035
SNP_P4_99700_33709167	NC_021166.1	Ca_kabuli_chr07	33709167	GG	AA	1946895037
SNP_P4_99701_33709507	NC_021166.1	Ca_kabuli_chr07	33709507	GG	AA	1946895039
SNP_P4_99702_33709510	NC_021166.1	Ca_kabuli_chr07	33709510	AA	CC	1946895041
SNP_P4_99703_33709523	NC_021166.1	Ca_kabuli_chr07	33709523	CC	TT	1946895043
SNP_P4_99704_33712683	NC_021166.1	Ca_kabuli_chr07	33712683	CC	TT	1946895045
SNP_P4_99705_33712709	NC_021166.1	Ca_kabuli_chr07	33712709	AA	CC	1946895048
SNP_P4_99706_33712711	NC_021166.1	Ca_kabuli_chr07	33712711	GG	AA	1946895050
SNP_P4_99707_33712754	NC_021166.1	Ca_kabuli_chr07	33712754	TT	AA	1946895052
SNP_P4_99709_33713739	NC_021166.1	Ca_kabuli_chr07	33713739	TT	GG	1946895054
SNP_P4_99711_33714017	NC_021166.1	Ca_kabuli_chr07	33714017	CC	TT	1946895056
SNP_P4_99714_33714253	NC_021166.1	Ca_kabuli_chr07	33714253	AA	CC	1946895058
SNP_P4_99715_33714412	NC_021166.1	Ca_kabuli_chr07	33714412	CC	AA	1946895060
SNP_P4_99716_33714423	NC_021166.1	Ca_kabuli_chr07	33714423	GG	AA	1946895062
SNP_P4_99717_33714434	NC_021166.1	Ca_kabuli_chr07	33714434	AA	GG	1946895064
SNP_P4_99718_33714485	NC_021166.1	Ca_kabuli_chr07	33714485	TT	AA	1946895066
SNP_P4_99719_33714502	NC_021166.1	Ca_kabuli_chr07	33714502	CC	TT	1946895068
SNP_P4_99720_33714543	NC_021166.1	Ca_kabuli_chr07	33714543	TT	CC	1946895070
SNP_P4_99721_33714547	NC_021166.1	Ca_kabuli_chr07	33714547	TT	AA	1946895072
SNP_P4_99722_33714693	NC_021166.1	Ca_kabuli_chr07	33714693	AA	GG	1946895073
SNP_P4_99723_33714698	NC_021166.1	Ca_kabuli_chr07	33714698	TT	GG	1946895074
SNP_P4_99724_33714922	NC_021166.1	Ca_kabuli_chr07	33714922	CC	TT	1946895075
SNP_P4_99725_33714936	NC_021166.1	Ca_kabuli_chr07	33714936	TT	AA	1946895076
SNP_P4_99726_33715003	NC_021166.1	Ca_kabuli_chr07	33715003	AA	TT	1946895077
SNP_P4_99727_33715044	NC_021166.1	Ca_kabuli_chr07	33715044	CC	AA	1946895078
SNP_P4_99728_33715452	NC_021166.1	Ca_kabuli_chr07	33715452	AA	GG	1946895079
SNP_P4_99729_33715727	NC_021166.1	Ca_kabuli_chr07	33715727	AA	GG	1946895081

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_99732_33720387	NC_021166.1	Ca_kabuli_chr07	33720387	GG	AA	1946895086
SNP_P4_99733_33720810	NC_021166.1	Ca_kabuli_chr07	33720810	GG	TT	1946895088
SNP_P4_99734_33721779	NC_021166.1	Ca_kabuli_chr07	33721779	GG	TT	1946895090
SNP_P4_99735_33722042	NC_021166.1	Ca_kabuli_chr07	33722042	GG	AA	1946895092
SNP_P4_99736_33722054	NC_021166.1	Ca_kabuli_chr07	33722054	GG	AA	1946895094
SNP_P4_99737_33722066	NC_021166.1	Ca_kabuli_chr07	33722066	TT	CC	1946895096
SNP_P4_99738_33722526	NC_021166.1	Ca_kabuli_chr07	33722526	CC	GG	1946895099
SNP_P4_99739_33722533	NC_021166.1	Ca_kabuli_chr07	33722533	GG	AA	1946895101
SNP_P4_99740_33722880	NC_021166.1	Ca_kabuli_chr07	33722880	AA	GG	1946895103
SNP_P4_99741_33722906	NC_021166.1	Ca_kabuli_chr07	33722906	CC	TT	1946895105
SNP_P4_99742_33722917	NC_021166.1	Ca_kabuli_chr07	33722917	TT	CC	1946895107
SNP_P4_99743_33722924	NC_021166.1	Ca_kabuli_chr07	33722924	GG	AA	1946895109
SNP_P4_99744_33723193	NC_021166.1	Ca_kabuli_chr07	33723193	GG	AA	1946895111
SNP_P4_99745_33723215	NC_021166.1	Ca_kabuli_chr07	33723215	CC	TT	1946895113
SNP_P4_99746_33723280	NC_021166.1	Ca_kabuli_chr07	33723280	AA	CC	1946895115
SNP_P4_99747_33724592	NC_021166.1	Ca_kabuli_chr07	33724592	AA	TT	1946895118
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SNP_P4_99750_33724798	NC_021166.1	Ca_kabuli_chr07	33724798	CC	TT	1946895122
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SNP_P4_99755_33725111	NC_021166.1	Ca_kabuli_chr07	33725111	TT	CC	1946895131
SNP_P4_99756_33725526	NC_021166.1	Ca_kabuli_chr07	33725526	AA	TT	1946895133
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SNP_P4_99762_33727640	NC_021166.1	Ca_kabuli_chr07	33727640	CC	GG	1946895142
SNP_P4_99763_33727668	NC_021166.1	Ca_kabuli_chr07	33727668	AA	GG	1946895144
SNP_P4_99764_33727782	NC_021166.1	Ca_kabuli_chr07	33727782	CC	AA	1946895147
SNP_P4_99765_33727836	NC_021166.1	Ca_kabuli_chr07	33727836	TT	GG	1946895149
SNP_P4_99766_33727987	NC_021166.1	Ca_kabuli_chr07	33727987	AA	TT	1946895151
SNP_P4_99767_33727995	NC_021166.1	Ca_kabuli_chr07	33727995	GG	TT	1946895153
SNP_P4_99768_33728964	NC_021166.1	Ca_kabuli_chr07	33728964	CC	TT	1946895155
SNP_P4_99769_33729283	NC_021166.1	Ca_kabuli_chr07	33729283	GG	AA	1946895157
SNP_P4_99770_33729391	NC_021166.1	Ca_kabuli_chr07	33729391	AA	GG	1946895159
SNP_P4_99771_33729478	NC_021166.1	Ca_kabuli_chr07	33729478	TT	CC	1946895161
SNP_P4_99772_33729630	NC_021166.1	Ca_kabuli_chr07	33729630	TT	GG	1946895163
SNP_P4_99773_33729675	NC_021166.1	Ca_kabuli_chr07	33729675	CC	TT	1946895166
SNP_P4_99774_33729866	NC_021166.1	Ca_kabuli_chr07	33729866	GG	AA	1946895168
SNP_P4_99775_33729998	NC_021166.1	Ca_kabuli_chr07	33729998	TT	CC	1946895170
SNP_P4_99776_33730087	NC_021166.1	Ca_kabuli_chr07	33730087	TT	CC	1946895172

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_99779_33730221	NC_021166.1	Ca_kabuli_chr07	33730221	AA	TT	1946895179
SNP_P4_99780_33730289	NC_021166.1	Ca_kabuli_chr07	33730289	GG	AA	1946895181
SNP_P4_99781_33730526	NC_021166.1	Ca_kabuli_chr07	33730526	CC	TT	1946895183
SNP_P4_99782_33730810	NC_021166.1	Ca_kabuli_chr07	33730810	CC	TT	1946895185
SNP_P4_99783_33730814	NC_021166.1	Ca_kabuli_chr07	33730814	GG	TT	1946895188
SNP_P4_99784_33731604	NC_021166.1	Ca_kabuli_chr07	33731604	AA	TT	1946895190
SNP_P4_99785_33731621	NC_021166.1	Ca_kabuli_chr07	33731621	AA	GG	1946895192
SNP_P4_99788_33732504	NC_021166.1	Ca_kabuli_chr07	33732504	TT	CC	1946895194
SNP_P4_99792_33733162	NC_021166.1	Ca_kabuli_chr07	33733162	GG	CC	1946895196
SNP_P4_99794_33743605	NC_021166.1	Ca_kabuli_chr07	33743605	CC	TT	1946895198
SNP_P4_99795_33743963	NC_021166.1	Ca_kabuli_chr07	33743963	GG	AA	1946895200
SNP_P4_99796_33745693	NC_021166.1	Ca_kabuli_chr07	33745693	GG	AA	1946895202
SNP_P4_99797_33746420	NC_021166.1	Ca_kabuli_chr07	33746420	GG	AA	1946895205
SNP_P4_99799_33747487	NC_021166.1	Ca_kabuli_chr07	33747487	TT	CC	1946895207
SNP_P4_99801_33749095	NC_021166.1	Ca_kabuli_chr07	33749095	TT	CC	1946895209
SNP_P4_99802_33749112	NC_021166.1	Ca_kabuli_chr07	33749112	GG	TT	1946895211
SNP_P4_99803_33750773	NC_021166.1	Ca_kabuli_chr07	33750773	AA	TT	1946895213
SNP_P4_99804_33750990	NC_021166.1	Ca_kabuli_chr07	33750990	CC	AA	1946895215
SNP_P4_99805_33753794	NC_021166.1	Ca_kabuli_chr07	33753794	GG	CC	1946895217
SNP_P4_99806_33753795	NC_021166.1	Ca_kabuli_chr07	33753795	CC	GG	1946895220
SNP_P4_99807_33753809	NC_021166.1	Ca_kabuli_chr07	33753809	CC	GG	1946895222
SNP_P4_99808_33757416	NC_021166.1	Ca_kabuli_chr07	33757416	GG	TT	1946895224
SNP_P4_99809_33757581	NC_021166.1	Ca_kabuli_chr07	33757581	AA	GG	1946895226
SNP_P4_99810_33757655	NC_021166.1	Ca_kabuli_chr07	33757655	CC	GG	1946895229
SNP_P4_99812_33758978	NC_021166.1	Ca_kabuli_chr07	33758978	CC	TT	1946895231
SNP_P4_99813_33759182	NC_021166.1	Ca_kabuli_chr07	33759182	AA	CC	1946895233
SNP_P4_99814_33759270	NC_021166.1	Ca_kabuli_chr07	33759270	CC	GG	1946895235
SNP_P4_99815_33759618	NC_021166.1	Ca_kabuli_chr07	33759618	TT	CC	1946895238
SNP_P4_99816_33759619	NC_021166.1	Ca_kabuli_chr07	33759619	GG	AA	1946895240
SNP_P4_99817_33759645	NC_021166.1	Ca_kabuli_chr07	33759645	CC	TT	1946895242
SNP_P4_99818_33759648	NC_021166.1	Ca_kabuli_chr07	33759648	CC	TT	1946895244
SNP_P4_99819_33759855	NC_021166.1	Ca_kabuli_chr07	33759855	TT	CC	1946895246
SNP_P4_99820_33761388	NC_021166.1	Ca_kabuli_chr07	33761388	CC	TT	1946895248
SNP_P4_99821_33765471	NC_021166.1	Ca_kabuli_chr07	33765471	TT	GG	1946895251
SNP_P4_99822_33766264	NC_021166.1	Ca_kabuli_chr07	33766264	GG	TT	1946895253
SNP_P4_99823_33766270	NC_021166.1	Ca_kabuli_chr07	33766270	TT	CC	1946895255
SNP_P4_99825_33766705	NC_021166.1	Ca_kabuli_chr07	33766705	GG	AA	1946895257
SNP_P4_99826_33767516	NC_021166.1	Ca_kabuli_chr07	33767516	CC	GG	1946895260
SNP_P4_99830_33768390	NC_021166.1	Ca_kabuli_chr07	33768390	GG	AA	1946895262
SNP_P4_99832_33768504	NC_021166.1	Ca_kabuli_chr07	33768504	GG	TT	1946895264

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_99834_33768554	NC_021166.1	Ca_kabuli_chr07	33768554	TT	CC	1946895269
SNP_P4_99836_33768642	NC_021166.1	Ca_kabuli_chr07	33768642	TT	CC	1946895271
SNP_P4_99837_33768652	NC_021166.1	Ca_kabuli_chr07	33768652	CC	TT	1946895273
SNP_P4_99838_33768679	NC_021166.1	Ca_kabuli_chr07	33768679	CC	AA	1946895275
SNP_P4_99840_33768833	NC_021166.1	Ca_kabuli_chr07	33768833	CC	TT	1946895277
SNP_P4_99841_33768934	NC_021166.1	Ca_kabuli_chr07	33768934	AA	CC	1946895279
SNP_P4_99842_33769238	NC_021166.1	Ca_kabuli_chr07	33769238	AA	GG	1946895281
SNP_P4_99843_33769256	NC_021166.1	Ca_kabuli_chr07	33769256	CC	TT	1946895283
SNP_P4_99844_33769289	NC_021166.1	Ca_kabuli_chr07	33769289	GG	AA	1946895285
SNP_P4_99845_33769839	NC_021166.1	Ca_kabuli_chr07	33769839	AA	GG	1946895287
SNP_P4_99846_33769842	NC_021166.1	Ca_kabuli_chr07	33769842	TT	CC	1946895289
SNP_P4_99847_33769843	NC_021166.1	Ca_kabuli_chr07	33769843	TT	AA	1946895291
SNP_P4_99848_33769852	NC_021166.1	Ca_kabuli_chr07	33769852	CC	TT	1946895293
SNP_P4_99849_33769872	NC_021166.1	Ca_kabuli_chr07	33769872	TT	CC	1946895295
SNP_P4_99850_33769873	NC_021166.1	Ca_kabuli_chr07	33769873	TT	CC	1946895297
SNP_P4_99851_33769874	NC_021166.1	Ca_kabuli_chr07	33769874	AA	GG	1946895300
SNP_P4_99852_33769877	NC_021166.1	Ca_kabuli_chr07	33769877	CC	TT	1946895302
SNP_P4_99853_33770203	NC_021166.1	Ca_kabuli_chr07	33770203	GG	AA	1946895304
SNP_P4_99855_33770856	NC_021166.1	Ca_kabuli_chr07	33770856	TT	CC	1946895306
SNP_P4_99856_33770906	NC_021166.1	Ca_kabuli_chr07	33770906	TT	CC	1946895308
SNP_P4_99857_33771165	NC_021166.1	Ca_kabuli_chr07	33771165	AA	CC	1946895311
SNP_P4_99858_33771169	NC_021166.1	Ca_kabuli_chr07	33771169	TT	CC	1946895313
SNP_P4_99859_33771980	NC_021166.1	Ca_kabuli_chr07	33771980	GG	AA	1946895315
SNP_P4_99860_33772054	NC_021166.1	Ca_kabuli_chr07	33772054	GG	CC	1946895317
SNP_P4_99861_33772227	NC_021166.1	Ca_kabuli_chr07	33772227	TT	AA	1946895319
SNP_P4_99863_33772620	NC_021166.1	Ca_kabuli_chr07	33772620	GG	TT	1946895321
SNP_P4_99865_33773046	NC_021166.1	Ca_kabuli_chr07	33773046	TT	CC	1946895323
SNP_P4_99866_33773056	NC_021166.1	Ca_kabuli_chr07	33773056	AA	GG	1946895325
SNP_P4_99867_33775269	NC_021166.1	Ca_kabuli_chr07	33775269	CC	TT	1946895327
SNP_P4_99869_33775307	NC_021166.1	Ca_kabuli_chr07	33775307	GG	AA	1946895329
SNP_P4_99870_33775320	NC_021166.1	Ca_kabuli_chr07	33775320	GG	TT	1946895331
SNP_P4_99871_33775475	NC_021166.1	Ca_kabuli_chr07	33775475	CC	TT	1946895333
SNP_P4_99872_33777896	NC_021166.1	Ca_kabuli_chr07	33777896	AA	GG	1946895335
SNP_P4_99873_33777899	NC_021166.1	Ca_kabuli_chr07	33777899	AA	GG	1946895337
SNP_P4_99874_33777945	NC_021166.1	Ca_kabuli_chr07	33777945	TT	GG	1946895339
SNP_P4_99875_33779618	NC_021166.1	Ca_kabuli_chr07	33779618	TT	CC	1946895341
SNP_P4_99876_33779636	NC_021166.1	Ca_kabuli_chr07	33779636	TT	CC	1946895343
SNP_P4_99877_33779986	NC_021166.1	Ca_kabuli_chr07	33779986	AA	TT	1946895345
SNP_P4_99878_33780004	NC_021166.1	Ca_kabuli_chr07	33780004	AA	CC	1946895347
SNP_P4_99880_33780228	NC_021166.1	Ca_kabuli_chr07	33780228	CC	TT	1946895349
SNP_P4_99881_33780303	NC_021166.1	Ca_kabuli_chr07	33780303	AA	CC	1946895351

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_99883_33780685	NC_021166.1	Ca_kabuli_chr07	33780685	AA	GG	1946895355
SNP_P4_99884_33780826	NC_021166.1	Ca_kabuli_chr07	33780826	GG	AA	1946895357
SNP_P4_99885_33781039	NC_021166.1	Ca_kabuli_chr07	33781039	AA	TT	1946895359
SNP_P4_99887_33781535	NC_021166.1	Ca_kabuli_chr07	33781535	AA	TT	1946895361
SNP_P4_99888_33781575	NC_021166.1	Ca_kabuli_chr07	33781575	AA	GG	1946895363
SNP_P4_99889_33781809	NC_021166.1	Ca_kabuli_chr07	33781809	AA	TT	1946895365
SNP_P4_99890_33781834	NC_021166.1	Ca_kabuli_chr07	33781834	TT	CC	1946895367
SNP_P4_99891_33782461	NC_021166.1	Ca_kabuli_chr07	33782461	CC	TT	1946895369
SNP_P4_99892_33784464	NC_021166.1	Ca_kabuli_chr07	33784464	TT	CC	1946895371
SNP_P4_99893_33784776	NC_021166.1	Ca_kabuli_chr07	33784776	GG	AA	1946895373
SNP_P4_99894_33785662	NC_021166.1	Ca_kabuli_chr07	33785662	TT	AA	1946895375
SNP_P4_99895_33785735	NC_021166.1	Ca_kabuli_chr07	33785735	CC	GG	1946895377
SNP_P4_99896_33789350	NC_021166.1	Ca_kabuli_chr07	33789350	GG	TT	1946895379
SNP_P4_99897_33793581	NC_021166.1	Ca_kabuli_chr07	33793581	GG	TT	1946895381
SNP_P4_99898_33793590	NC_021166.1	Ca_kabuli_chr07	33793590	AA	GG	1946895383
SNP_P4_99899_33794007	NC_021166.1	Ca_kabuli_chr07	33794007	CC	TT	1946895385
SNP_P4_99900_33794012	NC_021166.1	Ca_kabuli_chr07	33794012	AA	GG	1946895387
SNP_P4_99901_33794058	NC_021166.1	Ca_kabuli_chr07	33794058	AA	GG	1946895389
SNP_P4_99902_33794063	NC_021166.1	Ca_kabuli_chr07	33794063	GG	AA	1946895392
SNP_P4_99904_33795368	NC_021166.1	Ca_kabuli_chr07	33795368	TT	CC	1946895394
SNP_P4_99906_33797337	NC_021166.1	Ca_kabuli_chr07	33797337	AA	GG	1946895396
SNP_P4_99908_33797614	NC_021166.1	Ca_kabuli_chr07	33797614	GG	AA	1946895398
SNP_P4_99909_33797935	NC_021166.1	Ca_kabuli_chr07	33797935	AA	GG	1946895400
SNP_P4_99910_33798069	NC_021166.1	Ca_kabuli_chr07	33798069	TT	AA	1946895402
SNP_P4_99913_33800061	NC_021166.1	Ca_kabuli_chr07	33800061	TT	CC	1946895404
SNP_P4_99914_33800336	NC_021166.1	Ca_kabuli_chr07	33800336	AA	GG	1946895406
SNP_P4_99915_33802468	NC_021166.1	Ca_kabuli_chr07	33802468	CC	TT	1946895408
SNP_P4_99917_33802672	NC_021166.1	Ca_kabuli_chr07	33802672	TT	CC	1946895410
SNP_P4_99920_33802742	NC_021166.1	Ca_kabuli_chr07	33802742	TT	AA	1946895412
SNP_P4_99921_33802764	NC_021166.1	Ca_kabuli_chr07	33802764	AA	CC	1946895414
SNP_P4_99922_33802793	NC_021166.1	Ca_kabuli_chr07	33802793	TT	CC	1946895416
SNP_P4_99923_33802797	NC_021166.1	Ca_kabuli_chr07	33802797	CC	GG	1946895418
SNP_P4_99924_33803064	NC_021166.1	Ca_kabuli_chr07	33803064	TT	CC	1946895420
SNP_P4_99926_33803209	NC_021166.1	Ca_kabuli_chr07	33803209	AA	CC	1946895422
SNP_P4_99929_33803760	NC_021166.1	Ca_kabuli_chr07	33803760	TT	CC	1946895424
SNP_P4_99930_33803784	NC_021166.1	Ca_kabuli_chr07	33803784	GG	CC	1946895426
SNP_P4_99931_33803943	NC_021166.1	Ca_kabuli_chr07	33803943	TT	CC	1946895428
SNP_P4_99932_33803958	NC_021166.1	Ca_kabuli_chr07	33803958	CC	TT	1946895430
SNP_P4_99933_33804123	NC_021166.1	Ca_kabuli_chr07	33804123	GG	TT	1946895432
SNP_P4_99934_33804129	NC_021166.1	Ca_kabuli_chr07	33804129	CC	TT	1946895434
SNP_P4_99935_33804150	NC_021166.1	Ca_kabuli_chr07	33804150	TT	CC	1946895436

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_99937_33804615	NC_021166.1	Ca_kabuli_chr07	33804615	AA	GG	1946895440
SNP_P4_99938_33804762	NC_021166.1	Ca_kabuli_chr07	33804762	CC	TT	1946895442
SNP_P4_99939_33804796	NC_021166.1	Ca_kabuli_chr07	33804796	CC	TT	1946895444
SNP_P4_99940_33805477	NC_021166.1	Ca_kabuli_chr07	33805477	AA	GG	1946895446
SNP_P4_99941_33805483	NC_021166.1	Ca_kabuli_chr07	33805483	AA	TT	1946895447
SNP_P4_99942_33805485	NC_021166.1	Ca_kabuli_chr07	33805485	GG	AA	1946895449
SNP_P4_99943_33805502	NC_021166.1	Ca_kabuli_chr07	33805502	GG	AA	1946895451
SNP_P4_99944_33805512	NC_021166.1	Ca_kabuli_chr07	33805512	TT	GG	1946895453
SNP_P4_99947_33805699	NC_021166.1	Ca_kabuli_chr07	33805699	TT	CC	1946895455
SNP_P4_99948_33806333	NC_021166.1	Ca_kabuli_chr07	33806333	GG	TT	1946895457
SNP_P4_99949_33806649	NC_021166.1	Ca_kabuli_chr07	33806649	TT	AA	1946895459
SNP_P4_99950_33806686	NC_021166.1	Ca_kabuli_chr07	33806686	CC	TT	1946895461
SNP_P4_99952_33807309	NC_021166.1	Ca_kabuli_chr07	33807309	GG	AA	1946895463
SNP_P4_99953_33807792	NC_021166.1	Ca_kabuli_chr07	33807792	GG	AA	1946895465
SNP_P4_99954_33808147	NC_021166.1	Ca_kabuli_chr07	33808147	AA	TT	1946895467
SNP_P4_99955_33808988	NC_021166.1	Ca_kabuli_chr07	33808988	GG	AA	1946895469
SNP_P4_99956_33810932	NC_021166.1	Ca_kabuli_chr07	33810932	TT	CC	1946895471
SNP_P4_99957_33810967	NC_021166.1	Ca_kabuli_chr07	33810967	TT	CC	1946895473
SNP_P4_99960_33812503	NC_021166.1	Ca_kabuli_chr07	33812503	GG	AA	1946895475
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SNP_P4_99964_33813686	NC_021166.1	Ca_kabuli_chr07	33813686	TT	CC	1946895479
SNP_P4_99965_33815020	NC_021166.1	Ca_kabuli_chr07	33815020	CC	AA	1946895481
SNP_P4_99966_33815322	NC_021166.1	Ca_kabuli_chr07	33815322	CC	GG	1946895483
SNP_P4_99967_33815324	NC_021166.1	Ca_kabuli_chr07	33815324	CC	TT	1946895485
SNP_P4_99969_33815544	NC_021166.1	Ca_kabuli_chr07	33815544	AA	GG	1946895487
SNP_P4_99970_33815731	NC_021166.1	Ca_kabuli_chr07	33815731	GG	TT	1946895489
SNP_P4_99972_33815961	NC_021166.1	Ca_kabuli_chr07	33815961	AA	CC	1946895491
SNP_P4_99973_33817371	NC_021166.1	Ca_kabuli_chr07	33817371	CC	TT	1946895493
SNP_P4_99975_33817419	NC_021166.1	Ca_kabuli_chr07	33817419	CC	TT	1946895495
SNP_P4_99977_33818901	NC_021166.1	Ca_kabuli_chr07	33818901	AA	GG	1946895497
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SNP_P4_99979_33819495	NC_021166.1	Ca_kabuli_chr07	33819495	AA	CC	1946895501
SNP_P4_99980_33819750	NC_021166.1	Ca_kabuli_chr07	33819750	CC	TT	1946895503
SNP_P4_99982_33821039	NC_021166.1	Ca_kabuli_chr07	33821039	AA	GG	1946895505
SNP_P4_99983_33821288	NC_021166.1	Ca_kabuli_chr07	33821288	TT	CC	1946895507
SNP_P4_99984_33821307	NC_021166.1	Ca_kabuli_chr07	33821307	TT	GG	1946895509
SNP_P4_99985_33821320	NC_021166.1	Ca_kabuli_chr07	33821320	TT	AA	1946895511
SNP_P4_99986_33821678	NC_021166.1	Ca_kabuli_chr07	33821678	AA	GG	1946895513
SNP_P4_99987_33821690	NC_021166.1	Ca_kabuli_chr07	33821690	CC	AA	1946895515
SNP_P4_99988_33821693	NC_021166.1	Ca_kabuli_chr07	33821693	TT	AA	1946895517
SNP_P4_99990_33824975	NC_021166.1	Ca_kabuli_chr07	33824975	TT	GG	1946895519

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_99992_33825729	NC_021166.1	Ca_kabuli_chr07	33825729	CC	TT	1946895523
SNP_P4_99993_33826180	NC_021166.1	Ca_kabuli_chr07	33826180	TT	GG	1946895525
SNP_P4_99994_33826408	NC_021166.1	Ca_kabuli_chr07	33826408	GG	AA	1946895527
SNP_P4_99995_33827022	NC_021166.1	Ca_kabuli_chr07	33827022	CC	TT	1946895529
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SNP_P4_99997_33827092	NC_021166.1	Ca_kabuli_chr07	33827092	CC	TT	1946895532
SNP_P4_99998_33827095	NC_021166.1	Ca_kabuli_chr07	33827095	CC	TT	1946895534
SNP_P4_99999_33827109	NC_021166.1	Ca_kabuli_chr07	33827109	CC	TT	1946895536
SNP_P4_100000_33827133	NC_021166.1	Ca_kabuli_chr07	33827133	TT	AA	1946895538
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SNP_P4_100002_33827295	NC_021166.1	Ca_kabuli_chr07	33827295	CC	TT	1946895542
SNP_P4_100003_33827300	NC_021166.1	Ca_kabuli_chr07	33827300	CC	TT	1946895544
SNP_P4_100004_33827307	NC_021166.1	Ca_kabuli_chr07	33827307	CC	TT	1946895546
SNP_P4_100005_33827317	NC_021166.1	Ca_kabuli_chr07	33827317	AA	TT	1946895549
SNP_P4_100006_33827320	NC_021166.1	Ca_kabuli_chr07	33827320	GG	AA	1946895551
SNP_P4_100007_33827349	NC_021166.1	Ca_kabuli_chr07	33827349	CC	TT	1946895553
SNP_P4_100008_33827426	NC_021166.1	Ca_kabuli_chr07	33827426	AA	GG	1946895555
SNP_P4_100010_33830158	NC_021166.1	Ca_kabuli_chr07	33830158	AA	GG	1946895557
SNP_P4_100011_33830164	NC_021166.1	Ca_kabuli_chr07	33830164	GG	AA	1946895559
SNP_P4_100013_33830460	NC_021166.1	Ca_kabuli_chr07	33830460	TT	GG	1946895561
SNP_P4_100015_33830908	NC_021166.1	Ca_kabuli_chr07	33830908	GG	TT	1946895563
SNP_P4_100017_33830977	NC_021166.1	Ca_kabuli_chr07	33830977	AA	TT	1946895565
SNP_P4_100018_33834616	NC_021166.1	Ca_kabuli_chr07	33834616	GG	AA	1946895567
SNP_P4_100019_33834618	NC_021166.1	Ca_kabuli_chr07	33834618	GG	AA	1946895569
SNP_P4_100020_33834631	NC_021166.1	Ca_kabuli_chr07	33834631	TT	AA	1946895571
SNP_P4_100021_33834632	NC_021166.1	Ca_kabuli_chr07	33834632	AA	GG	1946895573
SNP_P4_100022_33834641	NC_021166.1	Ca_kabuli_chr07	33834641	AA	GG	1946895575
SNP_P4_100023_33834697	NC_021166.1	Ca_kabuli_chr07	33834697	TT	AA	1946895577
SNP_P4_100025_33839867	NC_021166.1	Ca_kabuli_chr07	33839867	TT	AA	1946895579
SNP_P4_100026_33839868	NC_021166.1	Ca_kabuli_chr07	33839868	GG	AA	1946895581
SNP_P4_100027_33839907	NC_021166.1	Ca_kabuli_chr07	33839907	TT	CC	1946895583
SNP_P4_100028_33839908	NC_021166.1	Ca_kabuli_chr07	33839908	CC	TT	1946895585
SNP_P4_100029_33840239	NC_021166.1	Ca_kabuli_chr07	33840239	GG	AA	1946895587
SNP_P4_100030_33842227	NC_021166.1	Ca_kabuli_chr07	33842227	TT	GG	1946895589
SNP_P4_100032_33846485	NC_021166.1	Ca_kabuli_chr07	33846485	TT	CC	1946895592
SNP_P4_100035_33848604	NC_021166.1	Ca_kabuli_chr07	33848604	TT	CC	1946895594
SNP_P4_100037_33851710	NC_021166.1	Ca_kabuli_chr07	33851710	AA	GG	1946895596
SNP_P4_100038_33851721	NC_021166.1	Ca_kabuli_chr07	33851721	GG	TT	1946895598
SNP_P4_100039_33851722	NC_021166.1	Ca_kabuli_chr07	33851722	TT	AA	1946895600
SNP_P4_100040_33851729	NC_021166.1	Ca_kabuli_chr07	33851729	AA	TT	1946895602
SNP_P4_100041_33851923	NC_021166.1	Ca_kabuli_chr07	33851923	AA	GG	1946895604

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_100042_33851950	NC_021166.1	Ca_kabuli_chr07	33851950	TT	CC	1946895606
SNP_P4_100044_33852615	NC_021166.1	Ca_kabuli_chr07	33852615	TT	CC	1946895608
SNP_P4_100045_33853212	NC_021166.1	Ca_kabuli_chr07	33853212	GG	AA	1946895610
SNP_P4_100047_33853407	NC_021166.1	Ca_kabuli_chr07	33853407	AA	GG	1946895612
SNP_P4_100048_33853465	NC_021166.1	Ca_kabuli_chr07	33853465	TT	CC	1946895615
SNP_P4_100049_33853475	NC_021166.1	Ca_kabuli_chr07	33853475	CC	TT	1946895617
SNP_P4_100050_33855167	NC_021166.1	Ca_kabuli_chr07	33855167	GG	AA	1946895619
SNP_P4_100051_33855170	NC_021166.1	Ca_kabuli_chr07	33855170	TT	CC	1946895622
SNP_P4_100052_33855314	NC_021166.1	Ca_kabuli_chr07	33855314	TT	CC	1946895624
SNP_P4_100054_33856830	NC_021166.1	Ca_kabuli_chr07	33856830	AA	GG	1946895626
SNP_P4_100056_33857421	NC_021166.1	Ca_kabuli_chr07	33857421	AA	CC	1946895628
SNP_P4_100058_33857587	NC_021166.1	Ca_kabuli_chr07	33857587	GG	AA	1946895630
SNP_P4_100059_33857626	NC_021166.1	Ca_kabuli_chr07	33857626	AA	GG	1946895632
SNP_P4_100060_33857643	NC_021166.1	Ca_kabuli_chr07	33857643	AA	GG	1946895634
SNP_P4_100061_33858753	NC_021166.1	Ca_kabuli_chr07	33858753	TT	CC	1946895637
SNP_P4_100062_33859022	NC_021166.1	Ca_kabuli_chr07	33859022	CC	TT	1946895639
SNP_P4_100063_33859064	NC_021166.1	Ca_kabuli_chr07	33859064	CC	TT	1946895641
SNP_P4_100064_33859100	NC_021166.1	Ca_kabuli_chr07	33859100	GG	AA	1946895643
SNP_P4_100065_33859403	NC_021166.1	Ca_kabuli_chr07	33859403	CC	TT	1946895645
SNP_P4_100066_33859439	NC_021166.1	Ca_kabuli_chr07	33859439	TT	CC	1946895647
SNP_P4_100068_33859467	NC_021166.1	Ca_kabuli_chr07	33859467	AA	TT	1946895649
SNP_P4_100069_33860809	NC_021166.1	Ca_kabuli_chr07	33860809	AA	GG	1946895651
SNP_P4_100070_33861285	NC_021166.1	Ca_kabuli_chr07	33861285	TT	GG	1946895653
SNP_P4_100071_33861713	NC_021166.1	Ca_kabuli_chr07	33861713	GG	TT	1946895655
SNP_P4_100072_33863436	NC_021166.1	Ca_kabuli_chr07	33863436	GG	AA	1946895657
SNP_P4_100073_33863680	NC_021166.1	Ca_kabuli_chr07	33863680	CC	TT	1946895659
SNP_P4_100074_33864341	NC_021166.1	Ca_kabuli_chr07	33864341	TT	GG	1946895661
SNP_P4_100075_33864661	NC_021166.1	Ca_kabuli_chr07	33864661	CC	TT	1946895663
SNP_P4_100076_33864913	NC_021166.1	Ca_kabuli_chr07	33864913	AA	GG	1946895665
SNP_P4_100077_33864975	NC_021166.1	Ca_kabuli_chr07	33864975	AA	GG	1946895667
SNP_P4_100078_33865964	NC_021166.1	Ca_kabuli_chr07	33865964	TT	AA	1946895669
SNP_P4_100079_33865967	NC_021166.1	Ca_kabuli_chr07	33865967	GG	TT	1946895671
SNP_P4_100080_33866897	NC_021166.1	Ca_kabuli_chr07	33866897	CC	GG	1946895673
SNP_P4_100081_33866943	NC_021166.1	Ca_kabuli_chr07	33866943	TT	GG	1946895675
SNP_P4_100082_33868608	NC_021166.1	Ca_kabuli_chr07	33868608	CC	GG	1946895677
SNP_P4_100083_33870276	NC_021166.1	Ca_kabuli_chr07	33870276	TT	CC	1946895679
SNP_P4_100084_33870570	NC_021166.1	Ca_kabuli_chr07	33870570	TT	AA	1946895681
SNP_P4_100085_33870587	NC_021166.1	Ca_kabuli_chr07	33870587	AA	CC	1946895683
SNP_P4_100086_33870598	NC_021166.1	Ca_kabuli_chr07	33870598	GG	TT	1946895685
SNP_P4_100088_33871165	NC_021166.1	Ca_kabuli_chr07	33871165	AA	GG	1946895687
SNP_P4_100089_33871696	NC_021166.1	Ca_kabuli_chr07	33871696	GG	AA	1946895689
SNP_P4_100090_33872854	NC_021166.1	Ca_kabuli_chr07	33872854	AA	GG	1946895691

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_100092_33873176	NC_021166.1	Ca_kabuli_chr07	33873176	GG	CC	1946895695
SNP_P4_100093_33873741	NC_021166.1	Ca_kabuli_chr07	33873741	AA	GG	1946895697
SNP_P4_100094_33873752	NC_021166.1	Ca_kabuli_chr07	33873752	CC	TT	1946895699
SNP_P4_100095_33873762	NC_021166.1	Ca_kabuli_chr07	33873762	CC	TT	1946895701
SNP_P4_100096_33873779	NC_021166.1	Ca_kabuli_chr07	33873779	AA	GG	1946895703
SNP_P4_100097_33873796	NC_021166.1	Ca_kabuli_chr07	33873796	TT	CC	1946895704
SNP_P4_100099_33873997	NC_021166.1	Ca_kabuli_chr07	33873997	TT	AA	1946895706
SNP_P4_100100_33874011	NC_021166.1	Ca_kabuli_chr07	33874011	TT	CC	1946895708
SNP_P4_100101_33874264	NC_021166.1	Ca_kabuli_chr07	33874264	TT	AA	1946895710
SNP_P4_100102_33874393	NC_021166.1	Ca_kabuli_chr07	33874393	AA	GG	1946895712
SNP_P4_100103_33876967	NC_021166.1	Ca_kabuli_chr07	33876967	AA	TT	1946895714
SNP_P4_100105_33877932	NC_021166.1	Ca_kabuli_chr07	33877932	CC	TT	1946895716
SNP_P4_100106_33879234	NC_021166.1	Ca_kabuli_chr07	33879234	AA	GG	1946895718
SNP_P4_100107_33879303	NC_021166.1	Ca_kabuli_chr07	33879303	AA	GG	1946895720
SNP_P4_100108_33880558	NC_021166.1	Ca_kabuli_chr07	33880558	GG	AA	1946895722
SNP_P4_100109_33880604	NC_021166.1	Ca_kabuli_chr07	33880604	TT	CC	1946895724
SNP_P4_100110_33880874	NC_021166.1	Ca_kabuli_chr07	33880874	CC	AA	1946895726
SNP_P4_100111_33880875	NC_021166.1	Ca_kabuli_chr07	33880875	GG	TT	1946895728
SNP_P4_100112_33880878	NC_021166.1	Ca_kabuli_chr07	33880878	GG	AA	1946895730
SNP_P4_100113_33880993	NC_021166.1	Ca_kabuli_chr07	33880993	AA	CC	1946895732
SNP_P4_100114_33881019	NC_021166.1	Ca_kabuli_chr07	33881019	AA	GG	1946895734
SNP_P4_100116_33885736	NC_021166.1	Ca_kabuli_chr07	33885736	AA	TT	1946895736
SNP_P4_100117_33886131	NC_021166.1	Ca_kabuli_chr07	33886131	CC	TT	1946895738
SNP_P4_100119_33888025	NC_021166.1	Ca_kabuli_chr07	33888025	GG	AA	1946895741
SNP_P4_100120_33888045	NC_021166.1	Ca_kabuli_chr07	33888045	CC	TT	1946895743
SNP_P4_100121_33888137	NC_021166.1	Ca_kabuli_chr07	33888137	GG	CC	1946895745
SNP_P4_100122_33888236	NC_021166.1	Ca_kabuli_chr07	33888236	TT	CC	1946895747
SNP_P4_100123_33888804	NC_021166.1	Ca_kabuli_chr07	33888804	GG	TT	1946895749
SNP_P4_100125_33892382	NC_021166.1	Ca_kabuli_chr07	33892382	TT	CC	1946895751
SNP_P4_100127_33894770	NC_021166.1	Ca_kabuli_chr07	33894770	GG	AA	1946895753
SNP_P4_100129_33895226	NC_021166.1	Ca_kabuli_chr07	33895226	TT	CC	1946895755
SNP_P4_100130_33895247	NC_021166.1	Ca_kabuli_chr07	33895247	AA	GG	1946895757
SNP_P4_100131_33895252	NC_021166.1	Ca_kabuli_chr07	33895252	CC	TT	1946895759
SNP_P4_100133_33895557	NC_021166.1	Ca_kabuli_chr07	33895557	CC	TT	1946895762
SNP_P4_100134_33895559	NC_021166.1	Ca_kabuli_chr07	33895559	GG	TT	1946895764
SNP_P4_100135_33895570	NC_021166.1	Ca_kabuli_chr07	33895570	TT	GG	1946895766
SNP_P4_100136_33902919	NC_021166.1	Ca_kabuli_chr07	33902919	AA	GG	1946895768
SNP_P4_100137_33905411	NC_021166.1	Ca_kabuli_chr07	33905411	AA	CC	1946895770
SNP_P4_100138_33905577	NC_021166.1	Ca_kabuli_chr07	33905577	GG	AA	1946895772
SNP_P4_100139_33905704	NC_021166.1	Ca_kabuli_chr07	33905704	TT	CC	1946895774
SNP_P4_100140_33905713	NC_021166.1	Ca_kabuli_chr07	33905713	AA	GG	1946895776

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_100141_33905726	NC_021166.1	Ca_kabuli_chr07	33905726	AA	GG	1946895778
SNP_P4_100142_33906676	NC_021166.1	Ca_kabuli_chr07	33906676	CC	AA	1946895781
SNP_P4_100143_33906708	NC_021166.1	Ca_kabuli_chr07	33906708	GG	AA	1946895783
SNP_P4_100144_33906766	NC_021166.1	Ca_kabuli_chr07	33906766	AA	GG	1946895785
SNP_P4_100145_33906781	NC_021166.1	Ca_kabuli_chr07	33906781	GG	AA	1946895787
SNP_P4_100146_33922710	NC_021166.1	Ca_kabuli_chr07	33922710	TT	CC	1946895789
SNP_P4_100147_33922766	NC_021166.1	Ca_kabuli_chr07	33922766	CC	TT	1946895791
SNP_P4_100148_33923055	NC_021166.1	Ca_kabuli_chr07	33923055	TT	CC	1946895793
SNP_P4_100149_33923069	NC_021166.1	Ca_kabuli_chr07	33923069	TT	CC	1946895795
SNP_P4_100150_33923128	NC_021166.1	Ca_kabuli_chr07	33923128	AA	GG	1946895797
SNP_P4_100151_33937347	NC_021166.1	Ca_kabuli_chr07	33937347	GG	AA	1946895800
SNP_P4_100152_33978556	NC_021166.1	Ca_kabuli_chr07	33978556	CC	TT	1946895802
SNP_P4_100153_33983201	NC_021166.1	Ca_kabuli_chr07	33983201	AA	GG	1946895804
SNP_P4_100154_33983372	NC_021166.1	Ca_kabuli_chr07	33983372	AA	CC	1946895806
SNP_P4_100155_34002695	NC_021166.1	Ca_kabuli_chr07	34002695	AA	TT	1946895808
SNP_P4_100156_34002741	NC_021166.1	Ca_kabuli_chr07	34002741	TT	CC	1946895810
SNP_P4_100157_34002768	NC_021166.1	Ca_kabuli_chr07	34002768	TT	CC	1946895812
SNP_P4_100158_34002775	NC_021166.1	Ca_kabuli_chr07	34002775	GG	AA	1946895815
SNP_P4_100159_34003043	NC_021166.1	Ca_kabuli_chr07	34003043	CC	TT	1946895817
SNP_P4_100160_34031649	NC_021166.1	Ca_kabuli_chr07	34031649	AA	GG	1946895819
SNP_P4_100161_34035265	NC_021166.1	Ca_kabuli_chr07	34035265	TT	AA	1946895821
SNP_P4_100164_34080690	NC_021166.1	Ca_kabuli_chr07	34080690	TT	CC	1946895823
SNP_P4_100165_34080701	NC_021166.1	Ca_kabuli_chr07	34080701	CC	TT	1946895825
SNP_P4_100166_34080882	NC_021166.1	Ca_kabuli_chr07	34080882	CC	TT	1946895827
SNP_P4_100167_34080943	NC_021166.1	Ca_kabuli_chr07	34080943	TT	CC	1946895829
SNP_P4_100168_34080983	NC_021166.1	Ca_kabuli_chr07	34080983	AA	GG	1946895831
SNP_P4_100169_34081024	NC_021166.1	Ca_kabuli_chr07	34081024	CC	AA	1946895833
SNP_P4_100170_34081025	NC_021166.1	Ca_kabuli_chr07	34081025	AA	TT	1946895836
SNP_P4_100171_34081068	NC_021166.1	Ca_kabuli_chr07	34081068	TT	CC	1946895838
SNP_P4_100172_34081140	NC_021166.1	Ca_kabuli_chr07	34081140	CC	TT	1946895840
SNP_P4_100173_34081146	NC_021166.1	Ca_kabuli_chr07	34081146	CC	AA	1946895842
SNP_P4_100174_34085027	NC_021166.1	Ca_kabuli_chr07	34085027	GG	TT	1946895844
SNP_P4_100175_34085289	NC_021166.1	Ca_kabuli_chr07	34085289	CC	TT	1946895846
SNP_P4_100176_34087575	NC_021166.1	Ca_kabuli_chr07	34087575	CC	GG	1946895848
SNP_P4_100177_34087710	NC_021166.1	Ca_kabuli_chr07	34087710	TT	CC	1946895850
SNP_P4_100178_34087768	NC_021166.1	Ca_kabuli_chr07	34087768	TT	CC	1946895852
SNP_P4_100179_34087796	NC_021166.1	Ca_kabuli_chr07	34087796	TT	GG	1946895854
SNP_P4_100181_34087910	NC_021166.1	Ca_kabuli_chr07	34087910	TT	CC	1946895856
SNP_P4_100183_34109092	NC_021166.1	Ca_kabuli_chr07	34109092	GG	AA	1946895858
SNP_P4_100184_34109093	NC_021166.1	Ca_kabuli_chr07	34109093	AA	GG	1946895860
SNP_P4_100185_34109469	NC_021166.1	Ca_kabuli_chr07	34109469	TT	CC	1946895862
SNP_P4_100188_34116823	NC_021166.1	Ca_kabuli_chr07	34116823	TT	GG	1946895864

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_100191_34117481	NC_021166.1	Ca_kabuli_chr07	34117481	TT	GG	1946895868
SNP_P4_100192_34117659	NC_021166.1	Ca_kabuli_chr07	34117659	CC	AA	1946895870
SNP_P4_100193_34117705	NC_021166.1	Ca_kabuli_chr07	34117705	GG	AA	1946895872
SNP_P4_100194_34117713	NC_021166.1	Ca_kabuli_chr07	34117713	AA	CC	1946895874
SNP_P4_100196_34117802	NC_021166.1	Ca_kabuli_chr07	34117802	CC	TT	1946895876
SNP_P4_100197_34117804	NC_021166.1	Ca_kabuli_chr07	34117804	AA	CC	1946895878
SNP_P4_100198_34118143	NC_021166.1	Ca_kabuli_chr07	34118143	AA	CC	1946895881
SNP_P4_100199_34118418	NC_021166.1	Ca_kabuli_chr07	34118418	TT	CC	1946895883
SNP_P4_100200_34131804	NC_021166.1	Ca_kabuli_chr07	34131804	CC	TT	1946895885
SNP_P4_100201_34131810	NC_021166.1	Ca_kabuli_chr07	34131810	TT	GG	1946895887
SNP_P4_100202_34131818	NC_021166.1	Ca_kabuli_chr07	34131818	TT	CC	1946895889
SNP_P4_100203_34131841	NC_021166.1	Ca_kabuli_chr07	34131841	TT	CC	1946895891
SNP_P4_100205_34132589	NC_021166.1	Ca_kabuli_chr07	34132589	TT	CC	1946895893
SNP_P4_100206_34133780	NC_021166.1	Ca_kabuli_chr07	34133780	TT	CC	1946895895
SNP_P4_100207_34136786	NC_021166.1	Ca_kabuli_chr07	34136786	TT	GG	1946895897
SNP_P4_100209_34137086	NC_021166.1	Ca_kabuli_chr07	34137086	GG	AA	1946895899
SNP_P4_100210_34138673	NC_021166.1	Ca_kabuli_chr07	34138673	CC	TT	1946895901
SNP_P4_100211_34139893	NC_021166.1	Ca_kabuli_chr07	34139893	CC	TT	1946895904
SNP_P4_100212_34141120	NC_021166.1	Ca_kabuli_chr07	34141120	CC	TT	1946895906
SNP_P4_100213_34141472	NC_021166.1	Ca_kabuli_chr07	34141472	CC	TT	1946895908
SNP_P4_100214_34141808	NC_021166.1	Ca_kabuli_chr07	34141808	AA	GG	1946895910
SNP_P4_100217_34144322	NC_021166.1	Ca_kabuli_chr07	34144322	GG	AA	1946895913
SNP_P4_100218_34144564	NC_021166.1	Ca_kabuli_chr07	34144564	CC	TT	1946895915
SNP_P4_100219_34144571	NC_021166.1	Ca_kabuli_chr07	34144571	TT	CC	1946895917
SNP_P4_100221_34147474	NC_021166.1	Ca_kabuli_chr07	34147474	TT	GG	1946895919
SNP_P4_100222_34148725	NC_021166.1	Ca_kabuli_chr07	34148725	TT	AA	1946895921
SNP_P4_100224_34152221	NC_021166.1	Ca_kabuli_chr07	34152221	TT	AA	1946895923
SNP_P4_100226_34152453	NC_021166.1	Ca_kabuli_chr07	34152453	TT	CC	1946895925
SNP_P4_100228_34152720	NC_021166.1	Ca_kabuli_chr07	34152720	TT	GG	1946895927
SNP_P4_100229_34156889	NC_021166.1	Ca_kabuli_chr07	34156889	AA	GG	1946895929
SNP_P4_100230_34157055	NC_021166.1	Ca_kabuli_chr07	34157055	GG	AA	1946895931
SNP_P4_100231_34157331	NC_021166.1	Ca_kabuli_chr07	34157331	GG	AA	1946895934
SNP_P4_100232_34158520	NC_021166.1	Ca_kabuli_chr07	34158520	AA	GG	1946895936
SNP_P4_100233_34158521	NC_021166.1	Ca_kabuli_chr07	34158521	AA	CC	1946895938
SNP_P4_100234_34158622	NC_021166.1	Ca_kabuli_chr07	34158622	GG	AA	1946895940
SNP_P4_100235_34158753	NC_021166.1	Ca_kabuli_chr07	34158753	TT	GG	1946895943
SNP_P4_100236_34158811	NC_021166.1	Ca_kabuli_chr07	34158811	GG	AA	1946895945
SNP_P4_100237_34158828	NC_021166.1	Ca_kabuli_chr07	34158828	TT	CC	1946895947
SNP_P4_100238_34158884	NC_021166.1	Ca_kabuli_chr07	34158884	GG	AA	1946895949
SNP_P4_100239_34158885	NC_021166.1	Ca_kabuli_chr07	34158885	AA	GG	1946895951
SNP_P4_100240_34158914	NC_021166.1	Ca_kabuli_chr07	34158914	TT	CC	1946895953

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_100242_34159108	NC_021166.1	Ca_kabuli_chr07	34159108	TT	CC	1946895957
SNP_P4_100243_34159159	NC_021166.1	Ca_kabuli_chr07	34159159	TT	CC	1946895959
SNP_P4_100244_34159238	NC_021166.1	Ca_kabuli_chr07	34159238	AA	GG	1946895961
SNP_P4_100245_34159252	NC_021166.1	Ca_kabuli_chr07	34159252	CC	AA	1946895963
SNP_P4_100246_34159291	NC_021166.1	Ca_kabuli_chr07	34159291	AA	CC	1946895965
SNP_P4_100247_34160674	NC_021166.1	Ca_kabuli_chr07	34160674	AA	CC	1946895967
SNP_P4_100248_34160941	NC_021166.1	Ca_kabuli_chr07	34160941	AA	GG	1946895969
SNP_P4_100249_34161026	NC_021166.1	Ca_kabuli_chr07	34161026	TT	GG	1946895971
SNP_P4_100250_34161034	NC_021166.1	Ca_kabuli_chr07	34161034	TT	GG	1946895973
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SNP_P4_100252_34161120	NC_021166.1	Ca_kabuli_chr07	34161120	TT	CC	1946895977
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SNP_P4_100254_34161154	NC_021166.1	Ca_kabuli_chr07	34161154	TT	AA	1946895981
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SNP_P4_100256_34161302	NC_021166.1	Ca_kabuli_chr07	34161302	CC	TT	1946895986
SNP_P4_100257_34161325	NC_021166.1	Ca_kabuli_chr07	34161325	GG	AA	1946895988
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SNP_P4_100263_34165029	NC_021166.1	Ca_kabuli_chr07	34165029	GG	CC	1946896001
SNP_P4_100264_34165285	NC_021166.1	Ca_kabuli_chr07	34165285	TT	CC	1946896003
SNP_P4_100265_34166010	NC_021166.1	Ca_kabuli_chr07	34166010	AA	TT	1946896005
SNP_P4_100267_34168180	NC_021166.1	Ca_kabuli_chr07	34168180	GG	AA	1946896007
SNP_P4_100268_34168236	NC_021166.1	Ca_kabuli_chr07	34168236	TT	CC	1946896009
SNP_P4_100269_34168237	NC_021166.1	Ca_kabuli_chr07	34168237	AA	TT	1946896011
SNP_P4_100270_34169224	NC_021166.1	Ca_kabuli_chr07	34169224	TT	CC	1946896013
SNP_P4_100271_34169251	NC_021166.1	Ca_kabuli_chr07	34169251	TT	CC	1946896015
SNP_P4_100272_34169294	NC_021166.1	Ca_kabuli_chr07	34169294	CC	TT	1946896017
SNP_P4_100273_34169565	NC_021166.1	Ca_kabuli_chr07	34169565	GG	TT	1946896019
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SNP_P4_100275_34170195	NC_021166.1	Ca_kabuli_chr07	34170195	TT	CC	1946896023
SNP_P4_100276_34170365	NC_021166.1	Ca_kabuli_chr07	34170365	CC	GG	1946896025
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SNP_P4_100278_34170383	NC_021166.1	Ca_kabuli_chr07	34170383	CC	AA	1946896029
SNP_P4_100279_34170753	NC_021166.1	Ca_kabuli_chr07	34170753	AA	TT	1946896031
SNP_P4_100280_34170814	NC_021166.1	Ca_kabuli_chr07	34170814	AA	CC	1946896033
SNP_P4_100281_34170827	NC_021166.1	Ca_kabuli_chr07	34170827	CC	TT	1946896035
SNP_P4_100282_34170833	NC_021166.1	Ca_kabuli_chr07	34170833	CC	TT	1946896036
SNP_P4_100283_34171193	NC_021166.1	Ca_kabuli_chr07	34171193	AA	CC	1946896038

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_100287_34172042	NC_021166.1	Ca_kabuli_chr07	34172042	TT	CC	1946896044
SNP_P4_100288_34172044	NC_021166.1	Ca_kabuli_chr07	34172044	TT	CC	1946896047
SNP_P4_100289_34172923	NC_021166.1	Ca_kabuli_chr07	34172923	GG	AA	1946896049
SNP_P4_100290_34173214	NC_021166.1	Ca_kabuli_chr07	34173214	CC	TT	1946896051
SNP_P4_100291_34173413	NC_021166.1	Ca_kabuli_chr07	34173413	TT	AA	1946896053
SNP_P4_100292_34173642	NC_021166.1	Ca_kabuli_chr07	34173642	AA	GG	1946896055
SNP_P4_100293_34173677	NC_021166.1	Ca_kabuli_chr07	34173677	TT	CC	1946896057
SNP_P4_100294_34173729	NC_021166.1	Ca_kabuli_chr07	34173729	AA	GG	1946896059
SNP_P4_100295_34173745	NC_021166.1	Ca_kabuli_chr07	34173745	GG	AA	1946896061
SNP_P4_100296_34173929	NC_021166.1	Ca_kabuli_chr07	34173929	AA	CC	1946896063
SNP_P4_100297_34175311	NC_021166.1	Ca_kabuli_chr07	34175311	TT	GG	1946896065
SNP_P4_100298_34175319	NC_021166.1	Ca_kabuli_chr07	34175319	TT	GG	1946896067
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SNP_P4_100300_34175337	NC_021166.1	Ca_kabuli_chr07	34175337	CC	AA	1946896071
SNP_P4_100301_34175640	NC_021166.1	Ca_kabuli_chr07	34175640	GG	AA	1946896073
SNP_P4_100302_34175707	NC_021166.1	Ca_kabuli_chr07	34175707	CC	TT	1946896075
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SNP_P4_100304_34175715	NC_021166.1	Ca_kabuli_chr07	34175715	AA	GG	1946896079
SNP_P4_100305_34175999	NC_021166.1	Ca_kabuli_chr07	34175999	GG	TT	1946896081
SNP_P4_100306_34176004	NC_021166.1	Ca_kabuli_chr07	34176004	AA	GG	1946896084
SNP_P4_100307_34176056	NC_021166.1	Ca_kabuli_chr07	34176056	GG	AA	1946896086
SNP_P4_100308_34176303	NC_021166.1	Ca_kabuli_chr07	34176303	GG	AA	1946896088
SNP_P4_100309_34176304	NC_021166.1	Ca_kabuli_chr07	34176304	AA	CC	1946896090
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SNP_P4_100312_34176367	NC_021166.1	Ca_kabuli_chr07	34176367	GG	TT	1946896096
SNP_P4_100313_34176369	NC_021166.1	Ca_kabuli_chr07	34176369	TT	AA	1946896098
SNP_P4_100314_34176385	NC_021166.1	Ca_kabuli_chr07	34176385	TT	CC	1946896100
SNP_P4_100315_34176418	NC_021166.1	Ca_kabuli_chr07	34176418	TT	CC	1946896102
SNP_P4_100316_34176443	NC_021166.1	Ca_kabuli_chr07	34176443	AA	GG	1946896104
SNP_P4_100317_34176495	NC_021166.1	Ca_kabuli_chr07	34176495	AA	GG	1946896106
SNP_P4_100318_34176497	NC_021166.1	Ca_kabuli_chr07	34176497	TT	CC	1946896108
SNP_P4_100319_34176833	NC_021166.1	Ca_kabuli_chr07	34176833	TT	CC	1946896110
SNP_P4_100320_34176858	NC_021166.1	Ca_kabuli_chr07	34176858	TT	GG	1946896112
SNP_P4_100321_34176863	NC_021166.1	Ca_kabuli_chr07	34176863	CC	TT	1946896114
SNP_P4_100322_34177300	NC_021166.1	Ca_kabuli_chr07	34177300	CC	TT	1946896116
SNP_P4_100323_34177309	NC_021166.1	Ca_kabuli_chr07	34177309	AA	TT	1946896119
SNP_P4_100324_34177320	NC_021166.1	Ca_kabuli_chr07	34177320	CC	TT	1946896121
SNP_P4_100325_34177584	NC_021166.1	Ca_kabuli_chr07	34177584	AA	GG	1946896123
SNP_P4_100326_34177629	NC_021166.1	Ca_kabuli_chr07	34177629	AA	CC	1946896125

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_100329_34177661	NC_021166.1	Ca_kabuli_chr07	34177661	AA	GG	1946896131
SNP_P4_100330_34182925	NC_021166.1	Ca_kabuli_chr07	34182925	TT	CC	1946896133
SNP_P4_100331_34182949	NC_021166.1	Ca_kabuli_chr07	34182949	TT	GG	1946896135
SNP_P4_100332_34183347	NC_021166.1	Ca_kabuli_chr07	34183347	AA	GG	1946896137
SNP_P4_100333_34183358	NC_021166.1	Ca_kabuli_chr07	34183358	GG	AA	1946896139
SNP_P4_100334_34183497	NC_021166.1	Ca_kabuli_chr07	34183497	TT	CC	1946896141
SNP_P4_100335_34183514	NC_021166.1	Ca_kabuli_chr07	34183514	AA	TT	1946896143
SNP_P4_100336_34183813	NC_021166.1	Ca_kabuli_chr07	34183813	AA	GG	1946896145
SNP_P4_100338_34183901	NC_021166.1	Ca_kabuli_chr07	34183901	CC	TT	1946896147
SNP_P4_100339_34184207	NC_021166.1	Ca_kabuli_chr07	34184207	GG	CC	1946896149
SNP_P4_100341_34184639	NC_021166.1	Ca_kabuli_chr07	34184639	TT	CC	1946896151
SNP_P4_100342_34184672	NC_021166.1	Ca_kabuli_chr07	34184672	CC	AA	1946896152
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SNP_P4_100345_34184746	NC_021166.1	Ca_kabuli_chr07	34184746	GG	AA	1946896154
SNP_P4_100346_34184751	NC_021166.1	Ca_kabuli_chr07	34184751	AA	GG	1946896155
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SNP_P4_100349_34185022	NC_021166.1	Ca_kabuli_chr07	34185022	GG	AA	1946896158
SNP_P4_100350_34185196	NC_021166.1	Ca_kabuli_chr07	34185196	CC	TT	1946896160
SNP_P4_100352_34185404	NC_021166.1	Ca_kabuli_chr07	34185404	CC	TT	1946896162
SNP_P4_100354_34186934	NC_021166.1	Ca_kabuli_chr07	34186934	GG	CC	1946896164
SNP_P4_100355_34187202	NC_021166.1	Ca_kabuli_chr07	34187202	AA	GG	1946896166
SNP_P4_100356_34187204	NC_021166.1	Ca_kabuli_chr07	34187204	CC	TT	1946896168
SNP_P4_100359_34187675	NC_021166.1	Ca_kabuli_chr07	34187675	GG	TT	1946896170
SNP_P4_100361_34189894	NC_021166.1	Ca_kabuli_chr07	34189894	TT	CC	1946896172
SNP_P4_100363_34190075	NC_021166.1	Ca_kabuli_chr07	34190075	GG	CC	1946896174
SNP_P4_100364_34190077	NC_021166.1	Ca_kabuli_chr07	34190077	CC	GG	1946896177
SNP_P4_100365_34190080	NC_021166.1	Ca_kabuli_chr07	34190080	CC	TT	1946896179
SNP_P4_100367_34190306	NC_021166.1	Ca_kabuli_chr07	34190306	TT	CC	1946896181
SNP_P4_100370_34191045	NC_021166.1	Ca_kabuli_chr07	34191045	TT	CC	1946896183
SNP_P4_100372_34191186	NC_021166.1	Ca_kabuli_chr07	34191186	CC	TT	1946896185
SNP_P4_100373_34191231	NC_021166.1	Ca_kabuli_chr07	34191231	GG	AA	1946896187
SNP_P4_100374_34191254	NC_021166.1	Ca_kabuli_chr07	34191254	GG	AA	1946896189
SNP_P4_100378_34192278	NC_021166.1	Ca_kabuli_chr07	34192278	AA	TT	1946896190
SNP_P4_100379_34192360	NC_021166.1	Ca_kabuli_chr07	34192360	TT	CC	1946896192
SNP_P4_100380_34192447	NC_021166.1	Ca_kabuli_chr07	34192447	CC	GG	1946896194
SNP_P4_100381_34192494	NC_021166.1	Ca_kabuli_chr07	34192494	CC	TT	1946896196
SNP_P4_100382_34194799	NC_021166.1	Ca_kabuli_chr07	34194799	TT	CC	1946896198
SNP_P4_100383_34195557	NC_021166.1	Ca_kabuli_chr07	34195557	AA	GG	1946896200
SNP_P4_100386_34196003	NC_021166.1	Ca_kabuli_chr07	34196003	AA	TT	1946896202

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_100389_34196466	NC_021166.1	Ca_kabuli_chr07	34196466	TT	CC	1946896206
SNP_P4_100390_34196535	NC_021166.1	Ca_kabuli_chr07	34196535	GG	AA	1946896208
SNP_P4_100392_34203706	NC_021166.1	Ca_kabuli_chr07	34203706	AA	TT	1946896210
SNP_P4_100393_34203727	NC_021166.1	Ca_kabuli_chr07	34203727	AA	TT	1946896212
SNP_P4_100394_34204483	NC_021166.1	Ca_kabuli_chr07	34204483	GG	AA	1946896214
SNP_P4_100397_34205488	NC_021166.1	Ca_kabuli_chr07	34205488	GG	AA	1946896216
SNP_P4_100398_34206354	NC_021166.1	Ca_kabuli_chr07	34206354	GG	AA	1946896218
SNP_P4_100399_34206409	NC_021166.1	Ca_kabuli_chr07	34206409	AA	GG	1946896220
SNP_P4_100401_34206929	NC_021166.1	Ca_kabuli_chr07	34206929	TT	CC	1946896222
SNP_P4_100402_34207884	NC_021166.1	Ca_kabuli_chr07	34207884	CC	AA	1946896224
SNP_P4_100403_34208028	NC_021166.1	Ca_kabuli_chr07	34208028	CC	TT	1946896226
SNP_P4_100404_34208319	NC_021166.1	Ca_kabuli_chr07	34208319	GG	AA	1946896228
SNP_P4_100405_34209452	NC_021166.1	Ca_kabuli_chr07	34209452	GG	AA	1946896230
SNP_P4_100406_34211456	NC_021166.1	Ca_kabuli_chr07	34211456	GG	AA	1946896232
SNP_P4_100407_34211640	NC_021166.1	Ca_kabuli_chr07	34211640	CC	AA	1946896234
SNP_P4_100408_34213817	NC_021166.1	Ca_kabuli_chr07	34213817	AA	GG	1946896236
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SNP_P4_100412_34216009	NC_021166.1	Ca_kabuli_chr07	34216009	AA	TT	1946896244
SNP_P4_100414_34216951	NC_021166.1	Ca_kabuli_chr07	34216951	CC	TT	1946896246
SNP_P4_100415_34218285	NC_021166.1	Ca_kabuli_chr07	34218285	TT	CC	1946896248
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SNP_P4_100420_34222638	NC_021166.1	Ca_kabuli_chr07	34222638	GG	AA	1946896256
SNP_P4_100422_34223355	NC_021166.1	Ca_kabuli_chr07	34223355	AA	GG	1946896258
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SNP_P4_100427_34226588	NC_021166.1	Ca_kabuli_chr07	34226588	CC	TT	1946896266
SNP_P4_100428_34226619	NC_021166.1	Ca_kabuli_chr07	34226619	AA	GG	1946896268
SNP_P4_100429_34226659	NC_021166.1	Ca_kabuli_chr07	34226659	TT	CC	1946896270
SNP_P4_100430_34226686	NC_021166.1	Ca_kabuli_chr07	34226686	GG	CC	1946896272
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SNP_P4_100432_34227786	NC_021166.1	Ca_kabuli_chr07	34227786	AA	GG	1946896276
SNP_P4_100434_34229925	NC_021166.1	Ca_kabuli_chr07	34229925	CC	AA	1946896277
SNP_P4_100435_34232457	NC_021166.1	Ca_kabuli_chr07	34232457	AA	GG	1946896279
SNP_P4_100436_34233339	NC_021166.1	Ca_kabuli_chr07	34233339	TT	CC	1946896281
SNP_P4_100437_34233621	NC_021166.1	Ca_kabuli_chr07	34233621	GG	AA	1946896283
SNP_P4_100438_34235012	NC_021166.1	Ca_kabuli_chr07	34235012	TT	CC	1946896285

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_100442_34237314	NC_021166.1	Ca_kabuli_chr07	34237314	GG	TT	1946896291
SNP_P4_100444_34237712	NC_021166.1	Ca_kabuli_chr07	34237712	TT	GG	1946896293
SNP_P4_100445_34237716	NC_021166.1	Ca_kabuli_chr07	34237716	GG	CC	1946896295
SNP_P4_100446_34237729	NC_021166.1	Ca_kabuli_chr07	34237729	AA	TT	1946896297
SNP_P4_100447_34237732	NC_021166.1	Ca_kabuli_chr07	34237732	GG	TT	1946896299
SNP_P4_100449_34237772	NC_021166.1	Ca_kabuli_chr07	34237772	TT	AA	1946896301
SNP_P4_100450_34240727	NC_021166.1	Ca_kabuli_chr07	34240727	AA	CC	1946896302
SNP_P4_100451_34240742	NC_021166.1	Ca_kabuli_chr07	34240742	GG	AA	1946896304
SNP_P4_100453_34241024	NC_021166.1	Ca_kabuli_chr07	34241024	TT	CC	1946896306
SNP_P4_100454_34241076	NC_021166.1	Ca_kabuli_chr07	34241076	CC	AA	1946896308
SNP_P4_100457_34241394	NC_021166.1	Ca_kabuli_chr07	34241394	AA	CC	1946896310
SNP_P4_100458_34241469	NC_021166.1	Ca_kabuli_chr07	34241469	GG	AA	1946896312
SNP_P4_100461_34241523	NC_021166.1	Ca_kabuli_chr07	34241523	TT	CC	1946896315
SNP_P4_100462_34241793	NC_021166.1	Ca_kabuli_chr07	34241793	CC	TT	1946896317
SNP_P4_100463_34241795	NC_021166.1	Ca_kabuli_chr07	34241795	TT	CC	1946896319
SNP_P4_100464_34241836	NC_021166.1	Ca_kabuli_chr07	34241836	AA	TT	1946896321
SNP_P4_100465_34241855	NC_021166.1	Ca_kabuli_chr07	34241855	TT	CC	1946896323
SNP_P4_100466_34241904	NC_021166.1	Ca_kabuli_chr07	34241904	CC	TT	1946896325
SNP_P4_100467_34241918	NC_021166.1	Ca_kabuli_chr07	34241918	TT	GG	1946896327
SNP_P4_100468_34241930	NC_021166.1	Ca_kabuli_chr07	34241930	GG	CC	1946896330
SNP_P4_100469_34242941	NC_021166.1	Ca_kabuli_chr07	34242941	CC	GG	1946896332
SNP_P4_100470_34242963	NC_021166.1	Ca_kabuli_chr07	34242963	AA	GG	1946896334
SNP_P4_100471_34243088	NC_021166.1	Ca_kabuli_chr07	34243088	AA	TT	1946896336
SNP_P4_100472_34243177	NC_021166.1	Ca_kabuli_chr07	34243177	TT	GG	1946896338
SNP_P4_100473_34243203	NC_021166.1	Ca_kabuli_chr07	34243203	GG	CC	1946896340
SNP_P4_100476_34243294	NC_021166.1	Ca_kabuli_chr07	34243294	TT	GG	1946896342
SNP_P4_100477_34243404	NC_021166.1	Ca_kabuli_chr07	34243404	AA	TT	1946896344
SNP_P4_100478_34243489	NC_021166.1	Ca_kabuli_chr07	34243489	TT	GG	1946896346
SNP_P4_100479_34243538	NC_021166.1	Ca_kabuli_chr07	34243538	CC	TT	1946896348
SNP_P4_100480_34243549	NC_021166.1	Ca_kabuli_chr07	34243549	GG	AA	1946896350
SNP_P4_100481_34243617	NC_021166.1	Ca_kabuli_chr07	34243617	GG	AA	1946896352
SNP_P4_100482_34243638	NC_021166.1	Ca_kabuli_chr07	34243638	TT	CC	1946896354
SNP_P4_100483_34243659	NC_021166.1	Ca_kabuli_chr07	34243659	TT	AA	1946896356
SNP_P4_100484_34243677	NC_021166.1	Ca_kabuli_chr07	34243677	TT	GG	1946896358
SNP_P4_100485_34243749	NC_021166.1	Ca_kabuli_chr07	34243749	AA	GG	1946896360
SNP_P4_100486_34243792	NC_021166.1	Ca_kabuli_chr07	34243792	CC	TT	1946896362
SNP_P4_100488_34247820	NC_021166.1	Ca_kabuli_chr07	34247820	AA	TT	1946896364
SNP_P4_100489_34249299	NC_021166.1	Ca_kabuli_chr07	34249299	GG	TT	1946896365
SNP_P4_100491_34249726	NC_021166.1	Ca_kabuli_chr07	34249726	AA	GG	1946896367
SNP_P4_100492_34250417	NC_021166.1	Ca_kabuli_chr07	34250417	GG	AA	1946896369

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_100494_34251513	NC_021166.1	Ca_kabuli_chr07	34251513	CC	AA	1946896373
SNP_P4_100495_34251544	NC_021166.1	Ca_kabuli_chr07	34251544	TT	CC	1946896375
SNP_P4_100496_34251811	NC_021166.1	Ca_kabuli_chr07	34251811	GG	CC	1946896377
SNP_P4_100497_34251903	NC_021166.1	Ca_kabuli_chr07	34251903	GG	AA	1946896379
SNP_P4_100498_34254608	NC_021166.1	Ca_kabuli_chr07	34254608	CC	TT	1946896381
SNP_P4_100499_34254624	NC_021166.1	Ca_kabuli_chr07	34254624	AA	GG	1946896383
SNP_P4_100500_34254633	NC_021166.1	Ca_kabuli_chr07	34254633	CC	TT	1946896385
SNP_P4_100501_34255063	NC_021166.1	Ca_kabuli_chr07	34255063	AA	GG	1946896387
SNP_P4_100502_34256144	NC_021166.1	Ca_kabuli_chr07	34256144	CC	TT	1946896389
SNP_P4_100503_34256409	NC_021166.1	Ca_kabuli_chr07	34256409	TT	CC	1946896391
SNP_P4_100504_34256585	NC_021166.1	Ca_kabuli_chr07	34256585	AA	GG	1946896393
SNP_P4_100506_34256652	NC_021166.1	Ca_kabuli_chr07	34256652	CC	TT	1946896395
SNP_P4_100507_34256685	NC_021166.1	Ca_kabuli_chr07	34256685	AA	GG	1946896397
SNP_P4_100508_34256708	NC_021166.1	Ca_kabuli_chr07	34256708	TT	CC	1946896399
SNP_P4_100509_34256822	NC_021166.1	Ca_kabuli_chr07	34256822	CC	TT	1946896401
SNP_P4_100510_34256912	NC_021166.1	Ca_kabuli_chr07	34256912	CC	TT	1946896403
SNP_P4_100511_34256914	NC_021166.1	Ca_kabuli_chr07	34256914	CC	TT	1946896405
SNP_P4_100512_34256924	NC_021166.1	Ca_kabuli_chr07	34256924	TT	CC	1946896407
SNP_P4_100513_34256988	NC_021166.1	Ca_kabuli_chr07	34256988	CC	TT	1946896409
SNP_P4_100514_34257247	NC_021166.1	Ca_kabuli_chr07	34257247	AA	GG	1946896411
SNP_P4_100515_34257402	NC_021166.1	Ca_kabuli_chr07	34257402	GG	TT	1946896413
SNP_P4_100516_34259035	NC_021166.1	Ca_kabuli_chr07	34259035	AA	GG	1946896415
SNP_P4_100517_34259750	NC_021166.1	Ca_kabuli_chr07	34259750	AA	TT	1946896417
SNP_P4_100518_34260213	NC_021166.1	Ca_kabuli_chr07	34260213	AA	GG	1946896419
SNP_P4_100519_34260597	NC_021166.1	Ca_kabuli_chr07	34260597	AA	CC	1946896421
SNP_P4_100520_34261215	NC_021166.1	Ca_kabuli_chr07	34261215	TT	AA	1946896423
SNP_P4_100521_34262053	NC_021166.1	Ca_kabuli_chr07	34262053	CC	TT	1946896425
SNP_P4_100522_34264255	NC_021166.1	Ca_kabuli_chr07	34264255	GG	AA	1946896427
SNP_P4_100523_34264263	NC_021166.1	Ca_kabuli_chr07	34264263	CC	TT	1946896429
SNP_P4_100524_34264266	NC_021166.1	Ca_kabuli_chr07	34264266	GG	AA	1946896431
SNP_P4_100525_34264269	NC_021166.1	Ca_kabuli_chr07	34264269	GG	CC	1946896433
SNP_P4_100526_34265070	NC_021166.1	Ca_kabuli_chr07	34265070	CC	TT	1946896435
SNP_P4_100527_34265423	NC_021166.1	Ca_kabuli_chr07	34265423	AA	GG	1946896437
SNP_P4_100528_34265772	NC_021166.1	Ca_kabuli_chr07	34265772	TT	GG	1946896439
SNP_P4_100529_34266858	NC_021166.1	Ca_kabuli_chr07	34266858	TT	CC	1946896441
SNP_P4_100530_34267503	NC_021166.1	Ca_kabuli_chr07	34267503	GG	CC	1946896443
SNP_P4_100531_34267703	NC_021166.1	Ca_kabuli_chr07	34267703	CC	TT	1946896445
SNP_P4_100532_34270248	NC_021166.1	Ca_kabuli_chr07	34270248	TT	GG	1946896447
SNP_P4_100533_34273161	NC_021166.1	Ca_kabuli_chr07	34273161	AA	CC	1946896449
SNP_P4_100535_34275995	NC_021166.1	Ca_kabuli_chr07	34275995	CC	GG	1946896452
SNP_P4_100536_34276050	NC_021166.1	Ca_kabuli_chr07	34276050	GG	AA	1946896454

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_100538_34276594	NC_021166.1	Ca_kabuli_chr07	34276594	TT	GG	1946896458
SNP_P4_100539_34276965	NC_021166.1	Ca_kabuli_chr07	34276965	TT	CC	1946896460
SNP_P4_100540_34277014	NC_021166.1	Ca_kabuli_chr07	34277014	TT	GG	1946896462
SNP_P4_100541_34277102	NC_021166.1	Ca_kabuli_chr07	34277102	CC	AA	1946896464
SNP_P4_100543_34277733	NC_021166.1	Ca_kabuli_chr07	34277733	TT	CC	1946896466
SNP_P4_100544_34277788	NC_021166.1	Ca_kabuli_chr07	34277788	AA	GG	1946896468
SNP_P4_100545_34277824	NC_021166.1	Ca_kabuli_chr07	34277824	GG	AA	1946896470
SNP_P4_100546_34277961	NC_021166.1	Ca_kabuli_chr07	34277961	CC	TT	1946896472
SNP_P4_100547_34278030	NC_021166.1	Ca_kabuli_chr07	34278030	AA	GG	1946896474
SNP_P4_100549_34278198	NC_021166.1	Ca_kabuli_chr07	34278198	AA	GG	1946896476
SNP_P4_100551_34278246	NC_021166.1	Ca_kabuli_chr07	34278246	AA	GG	1946896478
SNP_P4_100552_34278390	NC_021166.1	Ca_kabuli_chr07	34278390	AA	GG	1946896480
SNP_P4_100553_34278720	NC_021166.1	Ca_kabuli_chr07	34278720	TT	CC	1946896482
SNP_P4_100554_34279442	NC_021166.1	Ca_kabuli_chr07	34279442	TT	CC	1946896484
SNP_P4_100555_34280009	NC_021166.1	Ca_kabuli_chr07	34280009	TT	CC	1946896486
SNP_P4_100556_34282679	NC_021166.1	Ca_kabuli_chr07	34282679	AA	TT	1946896488
SNP_P4_100557_34283707	NC_021166.1	Ca_kabuli_chr07	34283707	AA	TT	1946896490
SNP_P4_100558_34283791	NC_021166.1	Ca_kabuli_chr07	34283791	AA	TT	1946896492
SNP_P4_100560_34283981	NC_021166.1	Ca_kabuli_chr07	34283981	GG	AA	1946896494
SNP_P4_100562_34284017	NC_021166.1	Ca_kabuli_chr07	34284017	AA	CC	1946896496
SNP_P4_100563_34285790	NC_021166.1	Ca_kabuli_chr07	34285790	CC	TT	1946896498
SNP_P4_100564_34285800	NC_021166.1	Ca_kabuli_chr07	34285800	CC	TT	1946896500
SNP_P4_100565_34286306	NC_021166.1	Ca_kabuli_chr07	34286306	GG	AA	1946896502
SNP_P4_100566_34286321	NC_021166.1	Ca_kabuli_chr07	34286321	CC	TT	1946896504
SNP_P4_100568_34286344	NC_021166.1	Ca_kabuli_chr07	34286344	TT	GG	1946896506
SNP_P4_100570_34286622	NC_021166.1	Ca_kabuli_chr07	34286622	CC	AA	1946896508
SNP_P4_100571_34286637	NC_021166.1	Ca_kabuli_chr07	34286637	CC	TT	1946896510
SNP_P4_100573_34287698	NC_021166.1	Ca_kabuli_chr07	34287698	GG	CC	1946896512
SNP_P4_100574_34287699	NC_021166.1	Ca_kabuli_chr07	34287699	GG	AA	1946896514
SNP_P4_100575_34287990	NC_021166.1	Ca_kabuli_chr07	34287990	AA	TT	1946896516
SNP_P4_100577_34288583	NC_021166.1	Ca_kabuli_chr07	34288583	GG	CC	1946896518
SNP_P4_100578_34288884	NC_021166.1	Ca_kabuli_chr07	34288884	CC	TT	1946896520
SNP_P4_100579_34289037	NC_021166.1	Ca_kabuli_chr07	34289037	CC	TT	1946896522
SNP_P4_100580_34289219	NC_021166.1	Ca_kabuli_chr07	34289219	AA	GG	1946896524
SNP_P4_100581_34289220	NC_021166.1	Ca_kabuli_chr07	34289220	TT	CC	1946896526
SNP_P4_100582_34289543	NC_021166.1	Ca_kabuli_chr07	34289543	GG	AA	1946896528
SNP_P4_100583_34289841	NC_021166.1	Ca_kabuli_chr07	34289841	CC	AA	1946896530
SNP_P4_100584_34290106	NC_021166.1	Ca_kabuli_chr07	34290106	GG	AA	1946896532
SNP_P4_100586_34290252	NC_021166.1	Ca_kabuli_chr07	34290252	GG	AA	1946896534
SNP_P4_100587_34291155	NC_021166.1	Ca_kabuli_chr07	34291155	GG	AA	1946896536
SNP_P4_100588_34292749	NC_021166.1	Ca_kabuli_chr07	34292749	CC	TT	1946896538

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_100590_34293129	NC_021166.1	Ca_kabuli_chr07	34293129	TT	AA	1946896542
SNP_P4_100591_34294138	NC_021166.1	Ca_kabuli_chr07	34294138	CC	TT	1946896544
SNP_P4_100592_34294158	NC_021166.1	Ca_kabuli_chr07	34294158	TT	AA	1946896546
SNP_P4_100593_34294202	NC_021166.1	Ca_kabuli_chr07	34294202	GG	AA	1946896548
SNP_P4_100594_34294390	NC_021166.1	Ca_kabuli_chr07	34294390	CC	TT	1946896550
SNP_P4_100595_34294433	NC_021166.1	Ca_kabuli_chr07	34294433	TT	GG	1946896552
SNP_P4_100596_34294528	NC_021166.1	Ca_kabuli_chr07	34294528	GG	AA	1946896554
SNP_P4_100597_34294529	NC_021166.1	Ca_kabuli_chr07	34294529	GG	AA	1946896557
SNP_P4_100598_34294534	NC_021166.1	Ca_kabuli_chr07	34294534	TT	CC	1946896559
SNP_P4_100599_34294586	NC_021166.1	Ca_kabuli_chr07	34294586	AA	GG	1946896561
SNP_P4_100600_34294587	NC_021166.1	Ca_kabuli_chr07	34294587	AA	TT	1946896563
SNP_P4_100601_34294594	NC_021166.1	Ca_kabuli_chr07	34294594	CC	TT	1946896565
SNP_P4_100602_34294601	NC_021166.1	Ca_kabuli_chr07	34294601	GG	AA	1946896567
SNP_P4_100603_34295580	NC_021166.1	Ca_kabuli_chr07	34295580	AA	GG	1946896569
SNP_P4_100604_34296799	NC_021166.1	Ca_kabuli_chr07	34296799	CC	TT	1946896571
SNP_P4_100605_34297567	NC_021166.1	Ca_kabuli_chr07	34297567	GG	TT	1946896573
SNP_P4_100607_34298700	NC_021166.1	Ca_kabuli_chr07	34298700	CC	AA	1946896575
SNP_P4_100608_34300258	NC_021166.1	Ca_kabuli_chr07	34300258	TT	AA	1946896577
SNP_P4_100610_34300515	NC_021166.1	Ca_kabuli_chr07	34300515	AA	TT	1946896579
SNP_P4_100611_34300863	NC_021166.1	Ca_kabuli_chr07	34300863	CC	TT	1946896581
SNP_P4_100612_34302311	NC_021166.1	Ca_kabuli_chr07	34302311	GG	CC	1946896583
SNP_P4_100613_34302446	NC_021166.1	Ca_kabuli_chr07	34302446	GG	AA	1946896585
SNP_P4_100614_34302473	NC_021166.1	Ca_kabuli_chr07	34302473	CC	TT	1946896587
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SNP_P4_100616_34302492	NC_021166.1	Ca_kabuli_chr07	34302492	CC	TT	1946896591
SNP_P4_100617_34302504	NC_021166.1	Ca_kabuli_chr07	34302504	CC	AA	1946896593
SNP_P4_100618_34302507	NC_021166.1	Ca_kabuli_chr07	34302507	AA	TT	1946896595
SNP_P4_100619_34302737	NC_021166.1	Ca_kabuli_chr07	34302737	CC	TT	1946896597
SNP_P4_100620_34302989	NC_021166.1	Ca_kabuli_chr07	34302989	CC	TT	1946896599
SNP_P4_100621_34303012	NC_021166.1	Ca_kabuli_chr07	34303012	AA	GG	1946896601
SNP_P4_100622_34303018	NC_021166.1	Ca_kabuli_chr07	34303018	GG	AA	1946896603
SNP_P4_100623_34303029	NC_021166.1	Ca_kabuli_chr07	34303029	TT	CC	1946896605
SNP_P4_100624_34303061	NC_021166.1	Ca_kabuli_chr07	34303061	CC	TT	1946896607
SNP_P4_100625_34303109	NC_021166.1	Ca_kabuli_chr07	34303109	TT	CC	1946896609
SNP_P4_100626_34303112	NC_021166.1	Ca_kabuli_chr07	34303112	GG	AA	1946896611
SNP_P4_100627_34303143	NC_021166.1	Ca_kabuli_chr07	34303143	GG	AA	1946896613
SNP_P4_100628_34303659	NC_021166.1	Ca_kabuli_chr07	34303659	AA	GG	1946896615
SNP_P4_100629_34303675	NC_021166.1	Ca_kabuli_chr07	34303675	AA	GG	1946896617
SNP_P4_100630_34303684	NC_021166.1	Ca_kabuli_chr07	34303684	AA	GG	1946896619
SNP_P4_100631_34303694	NC_021166.1	Ca_kabuli_chr07	34303694	AA	GG	1946896621
SNP_P4_100632_34303695	NC_021166.1	Ca_kabuli_chr07	34303695	GG	AA	1946896623

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_100636_34305656	NC_021166.1	Ca_kabuli_chr07	34305656	CC	TT	1946896629
SNP_P4_100637_34305711	NC_021166.1	Ca_kabuli_chr07	34305711	GG	CC	1946896631
SNP_P4_100638_34305777	NC_021166.1	Ca_kabuli_chr07	34305777	GG	TT	1946896634
SNP_P4_100639_34306114	NC_021166.1	Ca_kabuli_chr07	34306114	GG	TT	1946896636
SNP_P4_100641_34307145	NC_021166.1	Ca_kabuli_chr07	34307145	GG	CC	1946896638
SNP_P4_100642_34307206	NC_021166.1	Ca_kabuli_chr07	34307206	TT	CC	1946896640
SNP_P4_100643_34307692	NC_021166.1	Ca_kabuli_chr07	34307692	AA	GG	1946896642
SNP_P4_100644_34307693	NC_021166.1	Ca_kabuli_chr07	34307693	TT	CC	1946896644
SNP_P4_100645_34307705	NC_021166.1	Ca_kabuli_chr07	34307705	GG	AA	1946896646
SNP_P4_100646_34307741	NC_021166.1	Ca_kabuli_chr07	34307741	CC	TT	1946896648
SNP_P4_100647_34309252	NC_021166.1	Ca_kabuli_chr07	34309252	AA	TT	1946896650
SNP_P4_100648_34309437	NC_021166.1	Ca_kabuli_chr07	34309437	CC	TT	1946896652
SNP_P4_100649_34309492	NC_021166.1	Ca_kabuli_chr07	34309492	TT	CC	1946896654
SNP_P4_100650_34309559	NC_021166.1	Ca_kabuli_chr07	34309559	GG	TT	1946896656
SNP_P4_100652_34310637	NC_021166.1	Ca_kabuli_chr07	34310637	CC	TT	1946896658
SNP_P4_100653_34310638	NC_021166.1	Ca_kabuli_chr07	34310638	GG	AA	1946896660
SNP_P4_100654_34310642	NC_021166.1	Ca_kabuli_chr07	34310642	TT	GG	1946896662
SNP_P4_100655_34310649	NC_021166.1	Ca_kabuli_chr07	34310649	GG	TT	1946896664
SNP_P4_100656_34310684	NC_021166.1	Ca_kabuli_chr07	34310684	TT	CC	1946896666
SNP_P4_100657_34310691	NC_021166.1	Ca_kabuli_chr07	34310691	CC	TT	1946896668
SNP_P4_100658_34310880	NC_021166.1	Ca_kabuli_chr07	34310880	GG	TT	1946896670
SNP_P4_100660_34311158	NC_021166.1	Ca_kabuli_chr07	34311158	GG	CC	1946896672
SNP_P4_100661_34311211	NC_021166.1	Ca_kabuli_chr07	34311211	TT	CC	1946896674
SNP_P4_100662_34311216	NC_021166.1	Ca_kabuli_chr07	34311216	TT	CC	1946896676
SNP_P4_100663_34311217	NC_021166.1	Ca_kabuli_chr07	34311217	AA	TT	1946896679
SNP_P4_100664_34311234	NC_021166.1	Ca_kabuli_chr07	34311234	CC	TT	1946896681
SNP_P4_100665_34311405	NC_021166.1	Ca_kabuli_chr07	34311405	TT	CC	1946896683
SNP_P4_100666_34311453	NC_021166.1	Ca_kabuli_chr07	34311453	TT	CC	1946896685
SNP_P4_100668_34312092	NC_021166.1	Ca_kabuli_chr07	34312092	AA	GG	1946896687
SNP_P4_100670_34312346	NC_021166.1	Ca_kabuli_chr07	34312346	CC	AA	1946896689
SNP_P4_100674_34312608	NC_021166.1	Ca_kabuli_chr07	34312608	TT	CC	1946896691
SNP_P4_100675_34312625	NC_021166.1	Ca_kabuli_chr07	34312625	CC	GG	1946896693
SNP_P4_100677_34313116	NC_021166.1	Ca_kabuli_chr07	34313116	TT	CC	1946896695
SNP_P4_100678_34313322	NC_021166.1	Ca_kabuli_chr07	34313322	AA	GG	1946896697
SNP_P4_100679_34313344	NC_021166.1	Ca_kabuli_chr07	34313344	AA	GG	1946896699
SNP_P4_100680_34313355	NC_021166.1	Ca_kabuli_chr07	34313355	CC	TT	1946896701
SNP_P4_100681_34313455	NC_021166.1	Ca_kabuli_chr07	34313455	CC	AA	1946896703
SNP_P4_100683_34313523	NC_021166.1	Ca_kabuli_chr07	34313523	GG	AA	1946896705
SNP_P4_100684_34314358	NC_021166.1	Ca_kabuli_chr07	34314358	GG	AA	1946896707
SNP_P4_100685_34314947	NC_021166.1	Ca_kabuli_chr07	34314947	AA	TT	1946896709

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_100688_34315331	NC_021166.1	Ca_kabuli_chr07	34315331	GG	AA	1946896714
SNP_P4_100689_34315723	NC_021166.1	Ca_kabuli_chr07	34315723	AA	GG	1946896716
SNP_P4_100690_34315782	NC_021166.1	Ca_kabuli_chr07	34315782	CC	TT	1946896718
SNP_P4_100691_34316195	NC_021166.1	Ca_kabuli_chr07	34316195	TT	CC	1946896720
SNP_P4_100692_34316255	NC_021166.1	Ca_kabuli_chr07	34316255	TT	CC	1946896722
SNP_P4_100693_34316256	NC_021166.1	Ca_kabuli_chr07	34316256	CC	TT	1946896724
SNP_P4_100694_34316340	NC_021166.1	Ca_kabuli_chr07	34316340	AA	GG	1946896726
SNP_P4_100695_34316346	NC_021166.1	Ca_kabuli_chr07	34316346	GG	AA	1946896728
SNP_P4_100696_34316400	NC_021166.1	Ca_kabuli_chr07	34316400	TT	CC	1946896730
SNP_P4_100699_34317420	NC_021166.1	Ca_kabuli_chr07	34317420	GG	AA	1946896732
SNP_P4_100700_34317435	NC_021166.1	Ca_kabuli_chr07	34317435	GG	TT	1946896734
SNP_P4_100703_34317611	NC_021166.1	Ca_kabuli_chr07	34317611	CC	AA	1946896736
SNP_P4_100705_34318115	NC_021166.1	Ca_kabuli_chr07	34318115	AA	TT	1946896738
SNP_P4_100706_34318376	NC_021166.1	Ca_kabuli_chr07	34318376	AA	GG	1946896740
SNP_P4_100708_34320127	NC_021166.1	Ca_kabuli_chr07	34320127	CC	AA	1946896742
SNP_P4_100710_34321801	NC_021166.1	Ca_kabuli_chr07	34321801	AA	TT	1946896744
SNP_P4_100711_34321802	NC_021166.1	Ca_kabuli_chr07	34321802	GG	AA	1946896746
SNP_P4_100713_34322010	NC_021166.1	Ca_kabuli_chr07	34322010	GG	AA	1946896749
SNP_P4_100714_34322023	NC_021166.1	Ca_kabuli_chr07	34322023	GG	TT	1946896751
SNP_P4_100715_34322579	NC_021166.1	Ca_kabuli_chr07	34322579	GG	TT	1946896753
SNP_P4_100716_34322627	NC_021166.1	Ca_kabuli_chr07	34322627	CC	TT	1946896755
SNP_P4_100717_34322643	NC_021166.1	Ca_kabuli_chr07	34322643	AA	GG	1946896757
SNP_P4_100718_34323379	NC_021166.1	Ca_kabuli_chr07	34323379	CC	TT	1946896759
SNP_P4_100719_34323457	NC_021166.1	Ca_kabuli_chr07	34323457	GG	AA	1946896761
SNP_P4_100720_34323477	NC_021166.1	Ca_kabuli_chr07	34323477	GG	TT	1946896763
SNP_P4_100721_34323488	NC_021166.1	Ca_kabuli_chr07	34323488	GG	AA	1946896765
SNP_P4_100722_34323712	NC_021166.1	Ca_kabuli_chr07	34323712	TT	CC	1946896767
SNP_P4_100723_34323973	NC_021166.1	Ca_kabuli_chr07	34323973	GG	AA	1946896769
SNP_P4_100724_34323985	NC_021166.1	Ca_kabuli_chr07	34323985	CC	TT	1946896771
SNP_P4_100725_34324014	NC_021166.1	Ca_kabuli_chr07	34324014	CC	TT	1946896773
SNP_P4_100726_34324021	NC_021166.1	Ca_kabuli_chr07	34324021	AA	GG	1946896775
SNP_P4_100727_34324024	NC_021166.1	Ca_kabuli_chr07	34324024	AA	GG	1946896777
SNP_P4_100728_34324064	NC_021166.1	Ca_kabuli_chr07	34324064	AA	GG	1946896779
SNP_P4_100729_34324076	NC_021166.1	Ca_kabuli_chr07	34324076	AA	TT	1946896781
SNP_P4_100730_34324324	NC_021166.1	Ca_kabuli_chr07	34324324	AA	GG	1946896783
SNP_P4_100731_34324335	NC_021166.1	Ca_kabuli_chr07	34324335	AA	TT	1946896785
SNP_P4_100733_34328364	NC_021166.1	Ca_kabuli_chr07	34328364	AA	CC	1946896787
SNP_P4_100734_34328586	NC_021166.1	Ca_kabuli_chr07	34328586	GG	AA	1946896789
SNP_P4_100735_34328591	NC_021166.1	Ca_kabuli_chr07	34328591	TT	CC	1946896791
SNP_P4_100736_34328599	NC_021166.1	Ca_kabuli_chr07	34328599	TT	AA	1946896793
SNP_P4_100737_34328610	NC_021166.1	Ca_kabuli_chr07	34328610	CC	TT	1946896795

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_100739_34328757	NC_021166.1	Ca_kabuli_chr07	34328757	AA	GG	1946896799
SNP_P4_100741_34328877	NC_021166.1	Ca_kabuli_chr07	34328877	GG	AA	1946896801
SNP_P4_100742_34328966	NC_021166.1	Ca_kabuli_chr07	34328966	AA	GG	1946896803
SNP_P4_100743_34329018	NC_021166.1	Ca_kabuli_chr07	34329018	CC	TT	1946896805
SNP_P4_100744_34329040	NC_021166.1	Ca_kabuli_chr07	34329040	CC	AA	1946896807
SNP_P4_100745_34329205	NC_021166.1	Ca_kabuli_chr07	34329205	TT	GG	1946896809
SNP_P4_100747_34329244	NC_021166.1	Ca_kabuli_chr07	34329244	GG	TT	1946896811
SNP_P4_100748_34329253	NC_021166.1	Ca_kabuli_chr07	34329253	TT	CC	1946896813
SNP_P4_100749_34329269	NC_021166.1	Ca_kabuli_chr07	34329269	GG	TT	1946896815
SNP_P4_100750_34329275	NC_021166.1	Ca_kabuli_chr07	34329275	CC	TT	1946896817
SNP_P4_100751_34329426	NC_021166.1	Ca_kabuli_chr07	34329426	TT	CC	1946896819
SNP_P4_100752_34329443	NC_021166.1	Ca_kabuli_chr07	34329443	TT	CC	1946896821
SNP_P4_100753_34329610	NC_021166.1	Ca_kabuli_chr07	34329610	AA	CC	1946896823
SNP_P4_100754_34329639	NC_021166.1	Ca_kabuli_chr07	34329639	GG	TT	1946896825
SNP_P4_100755_34331168	NC_021166.1	Ca_kabuli_chr07	34331168	GG	AA	1946896827
SNP_P4_100756_34331371	NC_021166.1	Ca_kabuli_chr07	34331371	AA	TT	1946896829
SNP_P4_100758_34335111	NC_021166.1	Ca_kabuli_chr07	34335111	CC	TT	1946896831
SNP_P4_100760_34336028	NC_021166.1	Ca_kabuli_chr07	34336028	GG	AA	1946896833
SNP_P4_100761_34336053	NC_021166.1	Ca_kabuli_chr07	34336053	AA	GG	1946896835
SNP_P4_100762_34336075	NC_021166.1	Ca_kabuli_chr07	34336075	AA	TT	1946896838
SNP_P4_100764_34336338	NC_021166.1	Ca_kabuli_chr07	34336338	CC	AA	1946896840
SNP_P4_100765_34336547	NC_021166.1	Ca_kabuli_chr07	34336547	AA	GG	1946896842
SNP_P4_100766_34336611	NC_021166.1	Ca_kabuli_chr07	34336611	AA	GG	1946896844
SNP_P4_100767_34336626	NC_021166.1	Ca_kabuli_chr07	34336626	GG	AA	1946896846
SNP_P4_100768_34336628	NC_021166.1	Ca_kabuli_chr07	34336628	AA	TT	1946896848
SNP_P4_100769_34336845	NC_021166.1	Ca_kabuli_chr07	34336845	TT	GG	1946896850
SNP_P4_100770_34336896	NC_021166.1	Ca_kabuli_chr07	34336896	CC	TT	1946896852
SNP_P4_100772_34337238	NC_021166.1	Ca_kabuli_chr07	34337238	AA	CC	1946896854
SNP_P4_100773_34337335	NC_021166.1	Ca_kabuli_chr07	34337335	TT	CC	1946896856
SNP_P4_100774_34337352	NC_021166.1	Ca_kabuli_chr07	34337352	TT	AA	1946896858
SNP_P4_100775_34337473	NC_021166.1	Ca_kabuli_chr07	34337473	GG	AA	1946896860
SNP_P4_100776_34337474	NC_021166.1	Ca_kabuli_chr07	34337474	CC	TT	1946896862
SNP_P4_100777_34337488	NC_021166.1	Ca_kabuli_chr07	34337488	AA	GG	1946896864
SNP_P4_100778_34337491	NC_021166.1	Ca_kabuli_chr07	34337491	GG	AA	1946896866
SNP_P4_100779_34337520	NC_021166.1	Ca_kabuli_chr07	34337520	GG	TT	1946896868
SNP_P4_100780_34337524	NC_021166.1	Ca_kabuli_chr07	34337524	AA	GG	1946896870
SNP_P4_100781_34337657	NC_021166.1	Ca_kabuli_chr07	34337657	GG	TT	1946896872
SNP_P4_100782_34337693	NC_021166.1	Ca_kabuli_chr07	34337693	GG	AA	1946896874
SNP_P4_100784_34337995	NC_021166.1	Ca_kabuli_chr07	34337995	TT	CC	1946896876
SNP_P4_100785_34338036	NC_021166.1	Ca_kabuli_chr07	34338036	AA	GG	1946896878
SNP_P4_100786_34338056	NC_021166.1	Ca_kabuli_chr07	34338056	GG	AA	1946896881

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_100789_34339446	NC_021166.1	Ca_kabuli_chr07	34339446	CC	TT	1946896885
SNP_P4_100790_34339456	NC_021166.1	Ca_kabuli_chr07	34339456	TT	CC	1946896887
SNP_P4_100791_34339460	NC_021166.1	Ca_kabuli_chr07	34339460	AA	CC	1946896889
SNP_P4_100792_34339463	NC_021166.1	Ca_kabuli_chr07	34339463	CC	TT	1946896892
SNP_P4_100793_34339470	NC_021166.1	Ca_kabuli_chr07	34339470	TT	CC	1946896893
SNP_P4_100794_34339482	NC_021166.1	Ca_kabuli_chr07	34339482	GG	AA	1946896896
SNP_P4_100795_34339487	NC_021166.1	Ca_kabuli_chr07	34339487	AA	CC	1946896898
SNP_P4_100796_34339645	NC_021166.1	Ca_kabuli_chr07	34339645	CC	AA	1946896900
SNP_P4_100797_34339670	NC_021166.1	Ca_kabuli_chr07	34339670	GG	TT	1946896902
SNP_P4_100798_34339701	NC_021166.1	Ca_kabuli_chr07	34339701	TT	CC	1946896904
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SNP_P4_100800_34341740	NC_021166.1	Ca_kabuli_chr07	34341740	AA	GG	1946896908
SNP_P4_100801_34342001	NC_021166.1	Ca_kabuli_chr07	34342001	CC	TT	1946896910
SNP_P4_100802_34342017	NC_021166.1	Ca_kabuli_chr07	34342017	AA	GG	1946896912
SNP_P4_100803_34342018	NC_021166.1	Ca_kabuli_chr07	34342018	GG	TT	1946896914
SNP_P4_100804_34342021	NC_021166.1	Ca_kabuli_chr07	34342021	AA	GG	1946896916
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SNP_P4_100807_34342176	NC_021166.1	Ca_kabuli_chr07	34342176	TT	AA	1946896920
SNP_P4_100808_34342205	NC_021166.1	Ca_kabuli_chr07	34342205	TT	GG	1946896922
SNP_P4_100810_34342381	NC_021166.1	Ca_kabuli_chr07	34342381	GG	AA	1946896924
SNP_P4_100811_34342422	NC_021166.1	Ca_kabuli_chr07	34342422	GG	AA	1946896926
SNP_P4_100812_34342453	NC_021166.1	Ca_kabuli_chr07	34342453	CC	AA	1946896928
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SNP_P4_100817_34345953	NC_021166.1	Ca_kabuli_chr07	34345953	TT	AA	1946896938
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SNP_P4_100819_34347234	NC_021166.1	Ca_kabuli_chr07	34347234	GG	AA	1946896942
SNP_P4_100821_34347638	NC_021166.1	Ca_kabuli_chr07	34347638	AA	GG	1946896945
SNP_P4_100823_34348775	NC_021166.1	Ca_kabuli_chr07	34348775	CC	AA	1946896947
SNP_P4_100824_34348776	NC_021166.1	Ca_kabuli_chr07	34348776	TT	CC	1946896949
SNP_P4_100825_34349016	NC_021166.1	Ca_kabuli_chr07	34349016	GG	AA	1946896951
SNP_P4_100827_34349936	NC_021166.1	Ca_kabuli_chr07	34349936	GG	AA	1946896953
SNP_P4_100828_34349957	NC_021166.1	Ca_kabuli_chr07	34349957	AA	GG	1946896955
SNP_P4_100829_34349971	NC_021166.1	Ca_kabuli_chr07	34349971	TT	CC	1946896957
SNP_P4_100830_34350358	NC_021166.1	Ca_kabuli_chr07	34350358	AA	GG	1946896959
SNP_P4_100832_34350408	NC_021166.1	Ca_kabuli_chr07	34350408	CC	AA	1946896961
SNP_P4_100835_34351649	NC_021166.1	Ca_kabuli_chr07	34351649	TT	GG	1946896963
SNP_P4_100836_34351660	NC_021166.1	Ca_kabuli_chr07	34351660	GG	TT	1946896965
SNP_P4_100837_34351705	NC_021166.1	Ca_kabuli_chr07	34351705	AA	GG	1946896967

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_100840_34352056	NC_021166.1	Ca_kabuli_chr07	34352056	GG	CC	1946896975
SNP_P4_100841_34352088	NC_021166.1	Ca_kabuli_chr07	34352088	GG	TT	1946896977
SNP_P4_100842_34352097	NC_021166.1	Ca_kabuli_chr07	34352097	GG	CC	1946896979
SNP_P4_100844_34368421	NC_021166.1	Ca_kabuli_chr07	34368421	TT	CC	1946896981
SNP_P4_100845_34368467	NC_021166.1	Ca_kabuli_chr07	34368467	CC	GG	1946896983
SNP_P4_100846_34368832	NC_021166.1	Ca_kabuli_chr07	34368832	GG	AA	1946896985
SNP_P4_100847_34369004	NC_021166.1	Ca_kabuli_chr07	34369004	TT	AA	1946896987
SNP_P4_100848_34369030	NC_021166.1	Ca_kabuli_chr07	34369030	AA	TT	1946896990
SNP_P4_100849_34369038	NC_021166.1	Ca_kabuli_chr07	34369038	TT	CC	1946896992
SNP_P4_100850_34369054	NC_021166.1	Ca_kabuli_chr07	34369054	TT	AA	1946896994
SNP_P4_100851_34369055	NC_021166.1	Ca_kabuli_chr07	34369055	TT	GG	1946896996
SNP_P4_100852_34369056	NC_021166.1	Ca_kabuli_chr07	34369056	TT	AA	1946896998
SNP_P4_100853_34369632	NC_021166.1	Ca_kabuli_chr07	34369632	GG	AA	1946897000
SNP_P4_100854_34369671	NC_021166.1	Ca_kabuli_chr07	34369671	GG	TT	1946897002
SNP_P4_100855_34370020	NC_021166.1	Ca_kabuli_chr07	34370020	TT	CC	1946897004
SNP_P4_100856_34370503	NC_021166.1	Ca_kabuli_chr07	34370503	TT	CC	1946897006
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SNP_P4_100858_34371078	NC_021166.1	Ca_kabuli_chr07	34371078	CC	TT	1946897010
SNP_P4_100861_34375374	NC_021166.1	Ca_kabuli_chr07	34375374	CC	TT	1946897012
SNP_P4_100862_34375389	NC_021166.1	Ca_kabuli_chr07	34375389	CC	AA	1946897014
SNP_P4_100864_34379288	NC_021166.1	Ca_kabuli_chr07	34379288	GG	TT	1946897016
SNP_P4_100865_34379313	NC_021166.1	Ca_kabuli_chr07	34379313	CC	TT	1946897018
SNP_P4_100867_34379638	NC_021166.1	Ca_kabuli_chr07	34379638	GG	AA	1946897020
SNP_P4_100868_34379788	NC_021166.1	Ca_kabuli_chr07	34379788	CC	AA	1946897022
SNP_P4_100869_34379878	NC_021166.1	Ca_kabuli_chr07	34379878	TT	CC	1946897024
SNP_P4_100870_34381830	NC_021166.1	Ca_kabuli_chr07	34381830	AA	GG	1946897026
SNP_P4_100871_34382027	NC_021166.1	Ca_kabuli_chr07	34382027	AA	TT	1946897028
SNP_P4_100873_34382088	NC_021166.1	Ca_kabuli_chr07	34382088	AA	TT	1946897030
SNP_P4_100875_34383597	NC_021166.1	Ca_kabuli_chr07	34383597	GG	AA	1946897032
SNP_P4_100876_34383604	NC_021166.1	Ca_kabuli_chr07	34383604	CC	TT	1946897034
SNP_P4_100877_34384346	NC_021166.1	Ca_kabuli_chr07	34384346	TT	CC	1946897036
SNP_P4_100879_34384697	NC_021166.1	Ca_kabuli_chr07	34384697	CC	TT	1946897038
SNP_P4_100880_34384700	NC_021166.1	Ca_kabuli_chr07	34384700	CC	TT	1946897040
SNP_P4_100881_34384739	NC_021166.1	Ca_kabuli_chr07	34384739	AA	GG	1946897042
SNP_P4_100882_34385018	NC_021166.1	Ca_kabuli_chr07	34385018	CC	GG	1946897045
SNP_P4_100883_34385019	NC_021166.1	Ca_kabuli_chr07	34385019	TT	GG	1946897047
SNP_P4_100884_34385387	NC_021166.1	Ca_kabuli_chr07	34385387	TT	CC	1946897049
SNP_P4_100885_34385388	NC_021166.1	Ca_kabuli_chr07	34385388	GG	TT	1946897051
SNP_P4_100886_34385548	NC_021166.1	Ca_kabuli_chr07	34385548	TT	GG	1946897053
SNP_P4_100888_34385677	NC_021166.1	Ca_kabuli_chr07	34385677	TT	CC	1946897055

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_100890_34388228	NC_021166.1	Ca_kabuli_chr07	34388228	TT	GG	1946897059
SNP_P4_100891_34388249	NC_021166.1	Ca_kabuli_chr07	34388249	TT	CC	1946897061
SNP_P4_100892_34388311	NC_021166.1	Ca_kabuli_chr07	34388311	CC	TT	1946897064
SNP_P4_100893_34389030	NC_021166.1	Ca_kabuli_chr07	34389030	AA	GG	1946897066
SNP_P4_100894_34389071	NC_021166.1	Ca_kabuli_chr07	34389071	AA	GG	1946897068
SNP_P4_100895_34389345	NC_021166.1	Ca_kabuli_chr07	34389345	CC	AA	1946897070
SNP_P4_100896_34389759	NC_021166.1	Ca_kabuli_chr07	34389759	AA	GG	1946897072
SNP_P4_100897_34391462	NC_021166.1	Ca_kabuli_chr07	34391462	CC	TT	1946897074
SNP_P4_100898_34391546	NC_021166.1	Ca_kabuli_chr07	34391546	TT	CC	1946897076
SNP_P4_100899_34391737	NC_021166.1	Ca_kabuli_chr07	34391737	CC	TT	1946897079
SNP_P4_100900_34392028	NC_021166.1	Ca_kabuli_chr07	34392028	AA	GG	1946897081
SNP_P4_100901_34392090	NC_021166.1	Ca_kabuli_chr07	34392090	TT	GG	1946897083
SNP_P4_100903_34392378	NC_021166.1	Ca_kabuli_chr07	34392378	AA	CC	1946897085
SNP_P4_100904_34394303	NC_021166.1	Ca_kabuli_chr07	34394303	GG	AA	1946897087
SNP_P4_100906_34394692	NC_021166.1	Ca_kabuli_chr07	34394692	GG	AA	1946897089
SNP_P4_100907_34395952	NC_021166.1	Ca_kabuli_chr07	34395952	AA	TT	1946897091
SNP_P4_100909_34396169	NC_021166.1	Ca_kabuli_chr07	34396169	GG	AA	1946897093
SNP_P4_100910_34396345	NC_021166.1	Ca_kabuli_chr07	34396345	GG	CC	1946897095
SNP_P4_100911_34396718	NC_021166.1	Ca_kabuli_chr07	34396718	CC	GG	1946897097
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SNP_P4_100913_34396765	NC_021166.1	Ca_kabuli_chr07	34396765	CC	TT	1946897101
SNP_P4_100914_34396792	NC_021166.1	Ca_kabuli_chr07	34396792	CC	TT	1946897103
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SNP_P4_100916_34396798	NC_021166.1	Ca_kabuli_chr07	34396798	GG	AA	1946897107
SNP_P4_100917_34396809	NC_021166.1	Ca_kabuli_chr07	34396809	TT	GG	1946897109
SNP_P4_100918_34400295	NC_021166.1	Ca_kabuli_chr07	34400295	AA	GG	1946897111
SNP_P4_100920_34400740	NC_021166.1	Ca_kabuli_chr07	34400740	AA	CC	1946897113
SNP_P4_100924_34405639	NC_021166.1	Ca_kabuli_chr07	34405639	AA	GG	1946897115
SNP_P4_100925_34405709	NC_021166.1	Ca_kabuli_chr07	34405709	AA	TT	1946897117
SNP_P4_100926_34407562	NC_021166.1	Ca_kabuli_chr07	34407562	CC	TT	1946897119
SNP_P4_100927_34407577	NC_021166.1	Ca_kabuli_chr07	34407577	TT	CC	1946897121
SNP_P4_100929_34407619	NC_021166.1	Ca_kabuli_chr07	34407619	CC	GG	1946897123
SNP_P4_100930_34407793	NC_021166.1	Ca_kabuli_chr07	34407793	CC	TT	1946897125
SNP_P4_100931_34407836	NC_021166.1	Ca_kabuli_chr07	34407836	AA	GG	1946897127
SNP_P4_100933_34408124	NC_021166.1	Ca_kabuli_chr07	34408124	GG	TT	1946897129
SNP_P4_100934_34408172	NC_021166.1	Ca_kabuli_chr07	34408172	TT	CC	1946897131
SNP_P4_100935_34408228	NC_021166.1	Ca_kabuli_chr07	34408228	TT	GG	1946897133
SNP_P4_100936_34408534	NC_021166.1	Ca_kabuli_chr07	34408534	TT	CC	1946897135
SNP_P4_100937_34408556	NC_021166.1	Ca_kabuli_chr07	34408556	GG	CC	1946897137
SNP_P4_100938_34408560	NC_021166.1	Ca_kabuli_chr07	34408560	AA	GG	1946897139
SNP_P4_100939_34408929	NC_021166.1	Ca_kabuli_chr07	34408929	AA	CC	1946897141

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_100942_34412407	NC_021166.1	Ca_kabuli_chr07	34412407	GG	AA	1946897145
SNP_P4_100943_34413486	NC_021166.1	Ca_kabuli_chr07	34413486	AA	GG	1946897147
SNP_P4_100944_34414205	NC_021166.1	Ca_kabuli_chr07	34414205	CC	GG	1946897149
SNP_P4_100945_34414333	NC_021166.1	Ca_kabuli_chr07	34414333	TT	AA	1946897151
SNP_P4_100946_34414517	NC_021166.1	Ca_kabuli_chr07	34414517	TT	CC	1946897153
SNP_P4_100947_34431037	NC_021166.1	Ca_kabuli_chr07	34431037	CC	GG	1946897155
SNP_P4_100948_34433406	NC_021166.1	Ca_kabuli_chr07	34433406	GG	AA	1946897157
SNP_P4_100949_34446533	NC_021166.1	Ca_kabuli_chr07	34446533	TT	CC	1946897159
SNP_P4_100950_34449543	NC_021166.1	Ca_kabuli_chr07	34449543	GG	AA	1946897161
SNP_P4_100951_34451446	NC_021166.1	Ca_kabuli_chr07	34451446	AA	CC	1946897163
SNP_P4_100952_34477053	NC_021166.1	Ca_kabuli_chr07	34477053	AA	CC	1946897165
SNP_P4_100954_34490047	NC_021166.1	Ca_kabuli_chr07	34490047	CC	TT	1946897167
SNP_P4_100956_34531687	NC_021166.1	Ca_kabuli_chr07	34531687	GG	AA	1946897169
SNP_P4_100957_34546216	NC_021166.1	Ca_kabuli_chr07	34546216	TT	AA	1946897172
SNP_P4_100958_34563138	NC_021166.1	Ca_kabuli_chr07	34563138	GG	TT	1946897174
SNP_P4_100959_34563172	NC_021166.1	Ca_kabuli_chr07	34563172	GG	CC	1946897176
SNP_P4_100960_34563176	NC_021166.1	Ca_kabuli_chr07	34563176	TT	CC	1946897178
SNP_P4_100962_34583536	NC_021166.1	Ca_kabuli_chr07	34583536	CC	TT	1946897180
SNP_P4_100963_34586744	NC_021166.1	Ca_kabuli_chr07	34586744	GG	TT	1946897182
SNP_P4_100965_34605927	NC_021166.1	Ca_kabuli_chr07	34605927	TT	CC	1946897184
SNP_P4_100966_34605931	NC_021166.1	Ca_kabuli_chr07	34605931	TT	AA	1946897186
SNP_P4_100967_34640315	NC_021166.1	Ca_kabuli_chr07	34640315	AA	GG	1946897187
SNP_P4_100968_34660431	NC_021166.1	Ca_kabuli_chr07	34660431	TT	CC	1946897189
SNP_P4_100969_34660437	NC_021166.1	Ca_kabuli_chr07	34660437	GG	CC	1946897192
SNP_P4_100970_34660487	NC_021166.1	Ca_kabuli_chr07	34660487	TT	CC	1946897194
SNP_P4_100971_34661699	NC_021166.1	Ca_kabuli_chr07	34661699	GG	AA	1946897196
SNP_P4_100973_34674416	NC_021166.1	Ca_kabuli_chr07	34674416	AA	GG	1946897198
SNP_P4_100974_34733741	NC_021166.1	Ca_kabuli_chr07	34733741	CC	AA	1946897199
SNP_P4_100976_34748227	NC_021166.1	Ca_kabuli_chr07	34748227	AA	TT	1946897201
SNP_P4_100978_34779321	NC_021166.1	Ca_kabuli_chr07	34779321	TT	CC	1946897203
SNP_P4_100979_34786007	NC_021166.1	Ca_kabuli_chr07	34786007	GG	AA	1946897205
SNP_P4_100980_34788738	NC_021166.1	Ca_kabuli_chr07	34788738	AA	GG	1946897207
SNP_P4_100981_34788746	NC_021166.1	Ca_kabuli_chr07	34788746	AA	TT	1946897209
SNP_P4_100982_34790675	NC_021166.1	Ca_kabuli_chr07	34790675	AA	CC	1946897211
SNP_P4_100983_34792673	NC_021166.1	Ca_kabuli_chr07	34792673	TT	CC	1946897213
SNP_P4_100984_34792760	NC_021166.1	Ca_kabuli_chr07	34792760	AA	CC	1946897215
SNP_P4_100985_34792770	NC_021166.1	Ca_kabuli_chr07	34792770	TT	AA	1946897217
SNP_P4_100986_34792795	NC_021166.1	Ca_kabuli_chr07	34792795	GG	AA	1946897219
SNP_P4_100987_34792796	NC_021166.1	Ca_kabuli_chr07	34792796	TT	CC	1946897221
SNP_P4_100988_34792969	NC_021166.1	Ca_kabuli_chr07	34792969	GG	TT	1946897223
SNP_P4_100989_34793092	NC_021166.1	Ca_kabuli_chr07	34793092	TT	CC	1946897225

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_100991_34800994	NC_021166.1	Ca_kabuli_chr07	34800994	TT	CC	1946897229
SNP_P4_100992_34801301	NC_021166.1	Ca_kabuli_chr07	34801301	CC	TT	1946897231
SNP_P4_100993_34805046	NC_021166.1	Ca_kabuli_chr07	34805046	AA	GG	1946897233
SNP_P4_100994_34805089	NC_021166.1	Ca_kabuli_chr07	34805089	AA	GG	1946897235
SNP_P4_100995_34805104	NC_021166.1	Ca_kabuli_chr07	34805104	AA	GG	1946897237
SNP_P4_100996_34805371	NC_021166.1	Ca_kabuli_chr07	34805371	CC	GG	1946897239
SNP_P4_100997_34805386	NC_021166.1	Ca_kabuli_chr07	34805386	GG	TT	1946897241
SNP_P4_100998_34805388	NC_021166.1	Ca_kabuli_chr07	34805388	TT	CC	1946897243
SNP_P4_100999_34805479	NC_021166.1	Ca_kabuli_chr07	34805479	TT	CC	1946897245
SNP_P4_101000_34807692	NC_021166.1	Ca_kabuli_chr07	34807692	TT	CC	1946897247
SNP_P4_101001_34808007	NC_021166.1	Ca_kabuli_chr07	34808007	AA	TT	1946897249
SNP_P4_101002_34808008	NC_021166.1	Ca_kabuli_chr07	34808008	TT	AA	1946897251
SNP_P4_101003_34808498	NC_021166.1	Ca_kabuli_chr07	34808498	GG	AA	1946897253
SNP_P4_101005_34835347	NC_021166.1	Ca_kabuli_chr07	34835347	TT	CC	1946897255
SNP_P4_101006_34844539	NC_021166.1	Ca_kabuli_chr07	34844539	TT	GG	1946897257
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SNP_P4_101014_34929919	NC_021166.1	Ca_kabuli_chr07	34929919	AA	GG	1946897269
SNP_P4_101015_34981655	NC_021166.1	Ca_kabuli_chr07	34981655	AA	TT	1946897271
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SNP_P4_101021_35050081	NC_021166.1	Ca_kabuli_chr07	35050081	TT	CC	1946897279
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SNP_P4_101025_35077084	NC_021166.1	Ca_kabuli_chr07	35077084	TT	AA	1946897284
SNP_P4_101027_35087334	NC_021166.1	Ca_kabuli_chr07	35087334	GG	CC	1946897285
SNP_P4_101029_35093901	NC_021166.1	Ca_kabuli_chr07	35093901	AA	CC	1946897286
SNP_P4_101030_35102656	NC_021166.1	Ca_kabuli_chr07	35102656	TT	CC	1946897287
SNP_P4_101031_35106787	NC_021166.1	Ca_kabuli_chr07	35106787	GG	AA	1946897288
SNP_P4_101032_35108924	NC_021166.1	Ca_kabuli_chr07	35108924	TT	CC	1946897290
SNP_P4_101033_35108997	NC_021166.1	Ca_kabuli_chr07	35108997	GG	AA	1946897292
SNP_P4_101035_35109067	NC_021166.1	Ca_kabuli_chr07	35109067	TT	CC	1946897294
SNP_P4_101036_35109758	NC_021166.1	Ca_kabuli_chr07	35109758	AA	TT	1946897296
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SNP_P4_101038_35109886	NC_021166.1	Ca_kabuli_chr07	35109886	TT	CC	1946897300
SNP_P4_101039_35111586	NC_021166.1	Ca_kabuli_chr07	35111586	AA	CC	1946897302
SNP_P4_101040_35111604	NC_021166.1	Ca_kabuli_chr07	35111604	GG	TT	1946897304

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_101042_35114669	NC_021166.1	Ca_kabuli_chr07	35114669	CC	TT	1946897308
SNP_P4_101043_35114892	NC_021166.1	Ca_kabuli_chr07	35114892	GG	AA	1946897310
SNP_P4_101044_35115395	NC_021166.1	Ca_kabuli_chr07	35115395	AA	GG	1946897312
SNP_P4_101045_35115436	NC_021166.1	Ca_kabuli_chr07	35115436	AA	GG	1946897314
SNP_P4_101046_35117561	NC_021166.1	Ca_kabuli_chr07	35117561	TT	CC	1946897316
SNP_P4_101047_35119434	NC_021166.1	Ca_kabuli_chr07	35119434	CC	TT	1946897318
SNP_P4_101048_35119541	NC_021166.1	Ca_kabuli_chr07	35119541	CC	TT	1946897320
SNP_P4_101050_35119782	NC_021166.1	Ca_kabuli_chr07	35119782	AA	GG	1946897322
SNP_P4_101051_35119841	NC_021166.1	Ca_kabuli_chr07	35119841	AA	CC	1946897324
SNP_P4_101052_35119942	NC_021166.1	Ca_kabuli_chr07	35119942	CC	AA	1946897326
SNP_P4_101053_35120081	NC_021166.1	Ca_kabuli_chr07	35120081	AA	TT	1946897328
SNP_P4_101054_35120087	NC_021166.1	Ca_kabuli_chr07	35120087	GG	TT	1946897330
SNP_P4_101056_35120166	NC_021166.1	Ca_kabuli_chr07	35120166	AA	GG	1946897332
SNP_P4_101058_35121335	NC_021166.1	Ca_kabuli_chr07	35121335	AA	TT	1946897334
SNP_P4_101059_35121360	NC_021166.1	Ca_kabuli_chr07	35121360	CC	TT	1946897336
SNP_P4_101060_35121637	NC_021166.1	Ca_kabuli_chr07	35121637	AA	CC	1946897338
SNP_P4_101061_35121648	NC_021166.1	Ca_kabuli_chr07	35121648	TT	AA	1946897340
SNP_P4_101062_35121656	NC_021166.1	Ca_kabuli_chr07	35121656	CC	TT	1946897342
SNP_P4_101063_35121710	NC_021166.1	Ca_kabuli_chr07	35121710	TT	CC	1946897344
SNP_P4_101064_35121736	NC_021166.1	Ca_kabuli_chr07	35121736	TT	CC	1946897346
SNP_P4_101065_35121747	NC_021166.1	Ca_kabuli_chr07	35121747	GG	TT	1946897348
SNP_P4_101066_35121780	NC_021166.1	Ca_kabuli_chr07	35121780	TT	GG	1946897350
SNP_P4_101067_35121805	NC_021166.1	Ca_kabuli_chr07	35121805	CC	AA	1946897352
SNP_P4_101070_35122030	NC_021166.1	Ca_kabuli_chr07	35122030	AA	GG	1946897354
SNP_P4_101071_35122147	NC_021166.1	Ca_kabuli_chr07	35122147	AA	GG	1946897356
SNP_P4_101072_35122246	NC_021166.1	Ca_kabuli_chr07	35122246	AA	GG	1946897357
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SNP_P4_101074_35122427	NC_021166.1	Ca_kabuli_chr07	35122427	TT	CC	1946897361
SNP_P4_101075_35122463	NC_021166.1	Ca_kabuli_chr07	35122463	AA	CC	1946897363
SNP_P4_101077_35123442	NC_021166.1	Ca_kabuli_chr07	35123442	TT	CC	1946897365
SNP_P4_101078_35123806	NC_021166.1	Ca_kabuli_chr07	35123806	TT	CC	1946897367
SNP_P4_101079_35126600	NC_021166.1	Ca_kabuli_chr07	35126600	CC	GG	1946897369
SNP_P4_101080_35126604	NC_021166.1	Ca_kabuli_chr07	35126604	AA	GG	1946897371
SNP_P4_101081_35126607	NC_021166.1	Ca_kabuli_chr07	35126607	AA	GG	1946897373
SNP_P4_101082_35126829	NC_021166.1	Ca_kabuli_chr07	35126829	TT	CC	1946897376
SNP_P4_101083_35126832	NC_021166.1	Ca_kabuli_chr07	35126832	GG	TT	1946897378
SNP_P4_101084_35126833	NC_021166.1	Ca_kabuli_chr07	35126833	GG	AA	1946897382
SNP_P4_101086_35126907	NC_021166.1	Ca_kabuli_chr07	35126907	CC	TT	1946897384
SNP_P4_101087_35128629	NC_021166.1	Ca_kabuli_chr07	35128629	AA	TT	1946897386
SNP_P4_101088_35129744	NC_021166.1	Ca_kabuli_chr07	35129744	CC	TT	1946897388
SNP_P4_101090_35130017	NC_021166.1	Ca_kabuli_chr07	35130017	TT	CC	1946897390

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_101092_35130110	NC_021166.1	Ca_kabuli_chr07	35130110	CC	TT	1946897394
SNP_P4_101093_35131404	NC_021166.1	Ca_kabuli_chr07	35131404	AA	TT	1946897396
SNP_P4_101095_35131835	NC_021166.1	Ca_kabuli_chr07	35131835	AA	GG	1946897398
SNP_P4_101096_35132108	NC_021166.1	Ca_kabuli_chr07	35132108	TT	CC	1946897400
SNP_P4_101097_35132111	NC_021166.1	Ca_kabuli_chr07	35132111	AA	TT	1946897402
SNP_P4_101098_35132146	NC_021166.1	Ca_kabuli_chr07	35132146	GG	CC	1946897404
SNP_P4_101099_35132162	NC_021166.1	Ca_kabuli_chr07	35132162	GG	AA	1946897406
SNP_P4_101100_35132172	NC_021166.1	Ca_kabuli_chr07	35132172	TT	AA	1946897408
SNP_P4_101101_35132263	NC_021166.1	Ca_kabuli_chr07	35132263	GG	TT	1946897410
SNP_P4_101102_35132277	NC_021166.1	Ca_kabuli_chr07	35132277	TT	CC	1946897412
SNP_P4_101103_35132298	NC_021166.1	Ca_kabuli_chr07	35132298	AA	TT	1946897414
SNP_P4_101104_35132356	NC_021166.1	Ca_kabuli_chr07	35132356	AA	GG	1946897417
SNP_P4_101105_35132566	NC_021166.1	Ca_kabuli_chr07	35132566	GG	CC	1946897419
SNP_P4_101106_35134113	NC_021166.1	Ca_kabuli_chr07	35134113	GG	TT	1946897421
SNP_P4_101108_35134164	NC_021166.1	Ca_kabuli_chr07	35134164	TT	CC	1946897423
SNP_P4_101109_35135274	NC_021166.1	Ca_kabuli_chr07	35135274	GG	CC	1946897425
SNP_P4_101110_35135279	NC_021166.1	Ca_kabuli_chr07	35135279	GG	AA	1946897427
SNP_P4_101113_35136608	NC_021166.1	Ca_kabuli_chr07	35136608	CC	TT	1946897429
SNP_P4_101114_35136610	NC_021166.1	Ca_kabuli_chr07	35136610	AA	GG	1946897431
SNP_P4_101116_35138437	NC_021166.1	Ca_kabuli_chr07	35138437	CC	TT	1946897433
SNP_P4_101117_35138466	NC_021166.1	Ca_kabuli_chr07	35138466	GG	AA	1946897435
SNP_P4_101118_35138482	NC_021166.1	Ca_kabuli_chr07	35138482	TT	AA	1946897437
SNP_P4_101120_35139262	NC_021166.1	Ca_kabuli_chr07	35139262	AA	GG	1946897439
SNP_P4_101121_35139550	NC_021166.1	Ca_kabuli_chr07	35139550	TT	CC	1946897441
SNP_P4_101122_35139831	NC_021166.1	Ca_kabuli_chr07	35139831	AA	TT	1946897443
SNP_P4_101123_35139877	NC_021166.1	Ca_kabuli_chr07	35139877	GG	AA	1946897445
SNP_P4_101124_35139887	NC_021166.1	Ca_kabuli_chr07	35139887	TT	CC	1946897447
SNP_P4_101125_35140820	NC_021166.1	Ca_kabuli_chr07	35140820	AA	GG	1946897449
SNP_P4_101126_35140821	NC_021166.1	Ca_kabuli_chr07	35140821	GG	AA	1946897451
SNP_P4_101128_35140876	NC_021166.1	Ca_kabuli_chr07	35140876	AA	GG	1946897453
SNP_P4_101129_35140943	NC_021166.1	Ca_kabuli_chr07	35140943	GG	TT	1946897455
SNP_P4_101131_35142782	NC_021166.1	Ca_kabuli_chr07	35142782	TT	CC	1946897457
SNP_P4_101132_35143206	NC_021166.1	Ca_kabuli_chr07	35143206	TT	AA	1946897459
SNP_P4_101133_35143263	NC_021166.1	Ca_kabuli_chr07	35143263	CC	AA	1946897461
SNP_P4_101134_35143856	NC_021166.1	Ca_kabuli_chr07	35143856	GG	TT	1946897464
SNP_P4_101135_35143973	NC_021166.1	Ca_kabuli_chr07	35143973	CC	TT	1946897466
SNP_P4_101136_35144682	NC_021166.1	Ca_kabuli_chr07	35144682	CC	TT	1946897468
SNP_P4_101138_35145005	NC_021166.1	Ca_kabuli_chr07	35145005	CC	AA	1946897470
SNP_P4_101139_35145007	NC_021166.1	Ca_kabuli_chr07	35145007	GG	AA	1946897472
SNP_P4_101140_35145134	NC_021166.1	Ca_kabuli_chr07	35145134	CC	TT	1946897474
SNP_P4_101141_35145202	NC_021166.1	Ca_kabuli_chr07	35145202	TT	CC	1946897476

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_101143_35145327	NC_021166.1	Ca_kabuli_chr07	35145327	CC	AA	1946897480
SNP_P4_101144_35148187	NC_021166.1	Ca_kabuli_chr07	35148187	TT	CC	1946897482
SNP_P4_101145_35148198	NC_021166.1	Ca_kabuli_chr07	35148198	GG	AA	1946897484
SNP_P4_101148_35148307	NC_021166.1	Ca_kabuli_chr07	35148307	AA	GG	1946897486
SNP_P4_101150_35148726	NC_021166.1	Ca_kabuli_chr07	35148726	CC	GG	1946897488
SNP_P4_101151_35148744	NC_021166.1	Ca_kabuli_chr07	35148744	TT	CC	1946897490
SNP_P4_101152_35148777	NC_021166.1	Ca_kabuli_chr07	35148777	CC	TT	1946897492
SNP_P4_101153_35148778	NC_021166.1	Ca_kabuli_chr07	35148778	AA	GG	1946897494
SNP_P4_101154_35149046	NC_021166.1	Ca_kabuli_chr07	35149046	AA	CC	1946897496
SNP_P4_101155_35149927	NC_021166.1	Ca_kabuli_chr07	35149927	TT	GG	1946897498
SNP_P4_101156_35149964	NC_021166.1	Ca_kabuli_chr07	35149964	TT	CC	1946897501
SNP_P4_101157_35149972	NC_021166.1	Ca_kabuli_chr07	35149972	CC	GG	1946897503
SNP_P4_101158_35150020	NC_021166.1	Ca_kabuli_chr07	35150020	TT	AA	1946897505
SNP_P4_101159_35150066	NC_021166.1	Ca_kabuli_chr07	35150066	CC	TT	1946897507
SNP_P4_101161_35152011	NC_021166.1	Ca_kabuli_chr07	35152011	CC	TT	1946897509
SNP_P4_101162_35152062	NC_021166.1	Ca_kabuli_chr07	35152062	GG	AA	1946897511
SNP_P4_101164_35152739	NC_021166.1	Ca_kabuli_chr07	35152739	AA	GG	1946897513
SNP_P4_101165_35152762	NC_021166.1	Ca_kabuli_chr07	35152762	CC	TT	1946897515
SNP_P4_101166_35152776	NC_021166.1	Ca_kabuli_chr07	35152776	GG	TT	1946897517
SNP_P4_101167_35152777	NC_021166.1	Ca_kabuli_chr07	35152777	CC	TT	1946897519
SNP_P4_101168_35152788	NC_021166.1	Ca_kabuli_chr07	35152788	AA	GG	1946897521
SNP_P4_101169_35152792	NC_021166.1	Ca_kabuli_chr07	35152792	TT	GG	1946897523
SNP_P4_101170_35153081	NC_021166.1	Ca_kabuli_chr07	35153081	CC	TT	1946897525
SNP_P4_101171_35153682	NC_021166.1	Ca_kabuli_chr07	35153682	TT	CC	1946897527
SNP_P4_101172_35154370	NC_021166.1	Ca_kabuli_chr07	35154370	AA	TT	1946897529
SNP_P4_101173_35155021	NC_021166.1	Ca_kabuli_chr07	35155021	GG	AA	1946897531
SNP_P4_101176_35163522	NC_021166.1	Ca_kabuli_chr07	35163522	AA	GG	1946897534
SNP_P4_101177_35165980	NC_021166.1	Ca_kabuli_chr07	35165980	AA	TT	1946897536
SNP_P4_101178_35166268	NC_021166.1	Ca_kabuli_chr07	35166268	AA	GG	1946897538
SNP_P4_101179_35166275	NC_021166.1	Ca_kabuli_chr07	35166275	AA	GG	1946897540
SNP_P4_101180_35166301	NC_021166.1	Ca_kabuli_chr07	35166301	GG	AA	1946897542
SNP_P4_101182_35166527	NC_021166.1	Ca_kabuli_chr07	35166527	AA	GG	1946897544
SNP_P4_101183_35166560	NC_021166.1	Ca_kabuli_chr07	35166560	CC	TT	1946897546
SNP_P4_101184_35166687	NC_021166.1	Ca_kabuli_chr07	35166687	TT	CC	1946897548
SNP_P4_101185_35166700	NC_021166.1	Ca_kabuli_chr07	35166700	TT	CC	1946897550
SNP_P4_101187_35167045	NC_021166.1	Ca_kabuli_chr07	35167045	CC	GG	1946897552
SNP_P4_101188_35168943	NC_021166.1	Ca_kabuli_chr07	35168943	CC	TT	1946897554
SNP_P4_101189_35168953	NC_021166.1	Ca_kabuli_chr07	35168953	AA	CC	1946897556
SNP_P4_101190_35168956	NC_021166.1	Ca_kabuli_chr07	35168956	GG	AA	1946897558
SNP_P4_101191_35168968	NC_021166.1	Ca_kabuli_chr07	35168968	TT	CC	1946897560
SNP_P4_101192_35168974	NC_021166.1	Ca_kabuli_chr07	35168974	TT	GG	1946897562

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_101194_35168994	NC_021166.1	Ca_kabuli_chr07	35168994	AA	TT	1946897566
SNP_P4_101195_35168996	NC_021166.1	Ca_kabuli_chr07	35168996	AA	TT	1946897568
SNP_P4_101196_35169002	NC_021166.1	Ca_kabuli_chr07	35169002	AA	GG	1946897570
SNP_P4_101197_35170552	NC_021166.1	Ca_kabuli_chr07	35170552	CC	AA	1946897572
SNP_P4_101198_35170558	NC_021166.1	Ca_kabuli_chr07	35170558	TT	AA	1946897574
SNP_P4_101199_35172009	NC_021166.1	Ca_kabuli_chr07	35172009	AA	CC	1946897576
SNP_P4_101200_35172023	NC_021166.1	Ca_kabuli_chr07	35172023	CC	TT	1946897578
SNP_P4_101201_35172041	NC_021166.1	Ca_kabuli_chr07	35172041	CC	TT	1946897580
SNP_P4_101202_35175306	NC_021166.1	Ca_kabuli_chr07	35175306	GG	AA	1946897582
SNP_P4_101203_35175308	NC_021166.1	Ca_kabuli_chr07	35175308	AA	GG	1946897584
SNP_P4_101207_35175930	NC_021166.1	Ca_kabuli_chr07	35175930	TT	CC	1946897586
SNP_P4_101208_35176002	NC_021166.1	Ca_kabuli_chr07	35176002	TT	CC	1946897588
SNP_P4_101209_35176007	NC_021166.1	Ca_kabuli_chr07	35176007	GG	AA	1946897590
SNP_P4_101211_35178286	NC_021166.1	Ca_kabuli_chr07	35178286	AA	GG	1946897592
SNP_P4_101212_35178295	NC_021166.1	Ca_kabuli_chr07	35178295	GG	AA	1946897594
SNP_P4_101213_35178319	NC_021166.1	Ca_kabuli_chr07	35178319	GG	AA	1946897597
SNP_P4_101214_35178471	NC_021166.1	Ca_kabuli_chr07	35178471	TT	AA	1946897599
SNP_P4_101216_35178649	NC_021166.1	Ca_kabuli_chr07	35178649	CC	AA	1946897601
SNP_P4_101217_35178765	NC_021166.1	Ca_kabuli_chr07	35178765	GG	AA	1946897603
SNP_P4_101218_35178768	NC_021166.1	Ca_kabuli_chr07	35178768	GG	CC	1946897605
SNP_P4_101219_35178787	NC_021166.1	Ca_kabuli_chr07	35178787	GG	AA	1946897607
SNP_P4_101220_35178792	NC_021166.1	Ca_kabuli_chr07	35178792	AA	GG	1946897609
SNP_P4_101221_35178793	NC_021166.1	Ca_kabuli_chr07	35178793	CC	AA	1946897611
SNP_P4_101222_35179811	NC_021166.1	Ca_kabuli_chr07	35179811	GG	TT	1946897613
SNP_P4_101223_35181816	NC_021166.1	Ca_kabuli_chr07	35181816	TT	CC	1946897615
SNP_P4_101224_35181824	NC_021166.1	Ca_kabuli_chr07	35181824	GG	AA	1946897618
SNP_P4_101225_35182443	NC_021166.1	Ca_kabuli_chr07	35182443	AA	TT	1946897620
SNP_P4_101226_35182451	NC_021166.1	Ca_kabuli_chr07	35182451	CC	TT	1946897622
SNP_P4_101227_35182452	NC_021166.1	Ca_kabuli_chr07	35182452	GG	AA	1946897625
SNP_P4_101228_35182459	NC_021166.1	Ca_kabuli_chr07	35182459	TT	AA	1946897627
SNP_P4_101229_35182501	NC_021166.1	Ca_kabuli_chr07	35182501	GG	TT	1946897629
SNP_P4_101230_35182505	NC_021166.1	Ca_kabuli_chr07	35182505	CC	GG	1946897631
SNP_P4_101231_35183341	NC_021166.1	Ca_kabuli_chr07	35183341	GG	TT	1946897633
SNP_P4_101232_35183894	NC_021166.1	Ca_kabuli_chr07	35183894	GG	TT	1946897635
SNP_P4_101233_35184326	NC_021166.1	Ca_kabuli_chr07	35184326	GG	TT	1946897637
SNP_P4_101234_35185809	NC_021166.1	Ca_kabuli_chr07	35185809	GG	AA	1946897639
SNP_P4_101235_35186169	NC_021166.1	Ca_kabuli_chr07	35186169	TT	AA	1946897641
SNP_P4_101236_35186175	NC_021166.1	Ca_kabuli_chr07	35186175	TT	CC	1946897643
SNP_P4_101237_35186506	NC_021166.1	Ca_kabuli_chr07	35186506	AA	GG	1946897645
SNP_P4_101238_35186537	NC_021166.1	Ca_kabuli_chr07	35186537	AA	GG	1946897647
SNP_P4_101239_35186595	NC_021166.1	Ca_kabuli_chr07	35186595	GG	AA	1946897649

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_101241_35187274	NC_021166.1	Ca_kabuli_chr07	35187274	AA	GG	1946897653
SNP_P4_101242_35187348	NC_021166.1	Ca_kabuli_chr07	35187348	AA	GG	1946897655
SNP_P4_101243_35187508	NC_021166.1	Ca_kabuli_chr07	35187508	TT	CC	1946897657
SNP_P4_101244_35187579	NC_021166.1	Ca_kabuli_chr07	35187579	AA	GG	1946897659
SNP_P4_101245_35187580	NC_021166.1	Ca_kabuli_chr07	35187580	CC	TT	1946897661
SNP_P4_101246_35190373	NC_021166.1	Ca_kabuli_chr07	35190373	AA	GG	1946897663
SNP_P4_101247_35190527	NC_021166.1	Ca_kabuli_chr07	35190527	AA	TT	1946897665
SNP_P4_101248_35190568	NC_021166.1	Ca_kabuli_chr07	35190568	GG	AA	1946897667
SNP_P4_101250_35192611	NC_021166.1	Ca_kabuli_chr07	35192611	GG	AA	1946897669
SNP_P4_101251_35204501	NC_021166.1	Ca_kabuli_chr07	35204501	CC	AA	1946897671
SNP_P4_101252_35204547	NC_021166.1	Ca_kabuli_chr07	35204547	AA	CC	1946897673
SNP_P4_101253_35204741	NC_021166.1	Ca_kabuli_chr07	35204741	GG	AA	1946897675
SNP_P4_101254_35204771	NC_021166.1	Ca_kabuli_chr07	35204771	GG	TT	1946897677
SNP_P4_101255_35205018	NC_021166.1	Ca_kabuli_chr07	35205018	CC	AA	1946897679
SNP_P4_101256_35205025	NC_021166.1	Ca_kabuli_chr07	35205025	TT	AA	1946897681
SNP_P4_101257_35207524	NC_021166.1	Ca_kabuli_chr07	35207524	CC	TT	1946897683
SNP_P4_101258_35207711	NC_021166.1	Ca_kabuli_chr07	35207711	GG	AA	1946897685
SNP_P4_101259_35207754	NC_021166.1	Ca_kabuli_chr07	35207754	AA	TT	1946897687
SNP_P4_101260_35208995	NC_021166.1	Ca_kabuli_chr07	35208995	GG	AA	1946897689
SNP_P4_101261_35209019	NC_021166.1	Ca_kabuli_chr07	35209019	GG	AA	1946897691
SNP_P4_101262_35209020	NC_021166.1	Ca_kabuli_chr07	35209020	CC	AA	1946897693
SNP_P4_101263_35210243	NC_021166.1	Ca_kabuli_chr07	35210243	TT	AA	1946897695
SNP_P4_101264_35210495	NC_021166.1	Ca_kabuli_chr07	35210495	GG	TT	1946897697
SNP_P4_101265_35210519	NC_021166.1	Ca_kabuli_chr07	35210519	CC	AA	1946897699
SNP_P4_101267_35212070	NC_021166.1	Ca_kabuli_chr07	35212070	GG	AA	1946897701
SNP_P4_101268_35212201	NC_021166.1	Ca_kabuli_chr07	35212201	AA	GG	1946897703
SNP_P4_101269_35212208	NC_021166.1	Ca_kabuli_chr07	35212208	AA	GG	1946897705
SNP_P4_101271_35213702	NC_021166.1	Ca_kabuli_chr07	35213702	GG	AA	1946897707
SNP_P4_101272_35213707	NC_021166.1	Ca_kabuli_chr07	35213707	AA	GG	1946897709
SNP_P4_101273_35213709	NC_021166.1	Ca_kabuli_chr07	35213709	TT	GG	1946897711
SNP_P4_101275_35216138	NC_021166.1	Ca_kabuli_chr07	35216138	TT	GG	1946897713
SNP_P4_101276_35216159	NC_021166.1	Ca_kabuli_chr07	35216159	CC	AA	1946897715
SNP_P4_101277_35216188	NC_021166.1	Ca_kabuli_chr07	35216188	AA	GG	1946897717
SNP_P4_101278_35216234	NC_021166.1	Ca_kabuli_chr07	35216234	CC	AA	1946897719
SNP_P4_101280_35216476	NC_021166.1	Ca_kabuli_chr07	35216476	CC	GG	1946897721
SNP_P4_101281_35217215	NC_021166.1	Ca_kabuli_chr07	35217215	GG	AA	1946897723
SNP_P4_101282_35217283	NC_021166.1	Ca_kabuli_chr07	35217283	GG	TT	1946897725
SNP_P4_101283_35217420	NC_021166.1	Ca_kabuli_chr07	35217420	CC	TT	1946897727
SNP_P4_101284_35217551	NC_021166.1	Ca_kabuli_chr07	35217551	GG	CC	1946897729
SNP_P4_101286_35219315	NC_021166.1	Ca_kabuli_chr07	35219315	GG	TT	1946897731
SNP_P4_101287_35219330	NC_021166.1	Ca_kabuli_chr07	35219330	AA	GG	1946897733

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_101288_35219632	NC_021166.1	Ca_kabuli_chr07	35219632	AA	GG	1946897735
SNP_P4_101289_35219718	NC_021166.1	Ca_kabuli_chr07	35219718	AA	GG	1946897737
SNP_P4_101290_35219757	NC_021166.1	Ca_kabuli_chr07	35219757	GG	AA	1946897739
SNP_P4_101292_35219916	NC_021166.1	Ca_kabuli_chr07	35219916	GG	AA	1946897741
SNP_P4_101293_35220005	NC_021166.1	Ca_kabuli_chr07	35220005	GG	TT	1946897743
SNP_P4_101294_35222940	NC_021166.1	Ca_kabuli_chr07	35222940	CC	GG	1946897745
SNP_P4_101295_35224090	NC_021166.1	Ca_kabuli_chr07	35224090	TT	CC	1946897747
SNP_P4_101296_35224486	NC_021166.1	Ca_kabuli_chr07	35224486	GG	TT	1946897749
SNP_P4_101297_35224988	NC_021166.1	Ca_kabuli_chr07	35224988	AA	TT	1946897751
SNP_P4_101298_35225070	NC_021166.1	Ca_kabuli_chr07	35225070	CC	TT	1946897753
SNP_P4_101299_35225712	NC_021166.1	Ca_kabuli_chr07	35225712	TT	AA	1946897756
SNP_P4_101300_35225952	NC_021166.1	Ca_kabuli_chr07	35225952	TT	CC	1946897758
SNP_P4_101301_35226061	NC_021166.1	Ca_kabuli_chr07	35226061	GG	TT	1946897760
SNP_P4_101302_35226151	NC_021166.1	Ca_kabuli_chr07	35226151	CC	TT	1946897762
SNP_P4_101303_35226369	NC_021166.1	Ca_kabuli_chr07	35226369	TT	CC	1946897764
SNP_P4_101304_35228035	NC_021166.1	Ca_kabuli_chr07	35228035	AA	CC	1946897766
SNP_P4_101305_35229284	NC_021166.1	Ca_kabuli_chr07	35229284	GG	AA	1946897768
SNP_P4_101306_35229292	NC_021166.1	Ca_kabuli_chr07	35229292	GG	TT	1946897770
SNP_P4_101307_35229300	NC_021166.1	Ca_kabuli_chr07	35229300	AA	GG	1946897772
SNP_P4_101309_35230516	NC_021166.1	Ca_kabuli_chr07	35230516	CC	TT	1946897774
SNP_P4_101312_35231779	NC_021166.1	Ca_kabuli_chr07	35231779	CC	GG	1946897776
SNP_P4_101313_35232021	NC_021166.1	Ca_kabuli_chr07	35232021	GG	TT	1946897778
SNP_P4_101316_35232076	NC_021166.1	Ca_kabuli_chr07	35232076	GG	TT	1946897780
SNP_P4_101317_35232245	NC_021166.1	Ca_kabuli_chr07	35232245	AA	TT	1946897783
SNP_P4_101318_35232247	NC_021166.1	Ca_kabuli_chr07	35232247	CC	TT	1946897785
SNP_P4_101319_35232251	NC_021166.1	Ca_kabuli_chr07	35232251	TT	CC	1946897787
SNP_P4_101320_35232409	NC_021166.1	Ca_kabuli_chr07	35232409	TT	CC	1946897789
SNP_P4_101321_35232580	NC_021166.1	Ca_kabuli_chr07	35232580	GG	TT	1946897791
SNP_P4_101322_35232700	NC_021166.1	Ca_kabuli_chr07	35232700	GG	AA	1946897793
SNP_P4_101323_35232904	NC_021166.1	Ca_kabuli_chr07	35232904	CC	AA	1946897795
SNP_P4_101324_35234563	NC_021166.1	Ca_kabuli_chr07	35234563	AA	GG	1946897797
SNP_P4_101325_35235030	NC_021166.1	Ca_kabuli_chr07	35235030	AA	GG	1946897799
SNP_P4_101326_35235447	NC_021166.1	Ca_kabuli_chr07	35235447	GG	AA	1946897801
SNP_P4_101328_35236090	NC_021166.1	Ca_kabuli_chr07	35236090	GG	CC	1946897803
SNP_P4_101329_35237154	NC_021166.1	Ca_kabuli_chr07	35237154	TT	CC	1946897805
SNP_P4_101330_35238793	NC_021166.1	Ca_kabuli_chr07	35238793	GG	AA	1946897807
SNP_P4_101331_35239021	NC_021166.1	Ca_kabuli_chr07	35239021	AA	GG	1946897809
SNP_P4_101332_35241364	NC_021166.1	Ca_kabuli_chr07	35241364	CC	GG	1946897811
SNP_P4_101333_35242109	NC_021166.1	Ca_kabuli_chr07	35242109	GG	AA	1946897813
SNP_P4_101334_35256204	NC_021166.1	Ca_kabuli_chr07	35256204	TT	CC	1946897815
SNP_P4_101336_35256476	NC_021166.1	Ca_kabuli_chr07	35256476	TT	AA	1946897817
SNP_P4_101338_35257021	NC_021166.1	Ca_kabuli_chr07	35257021	CC	TT	1946897819

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_101340_35257071	NC_021166.1	Ca_kabuli_chr07	35257071	TT	CC	1946897824
SNP_P4_101341_35257131	NC_021166.1	Ca_kabuli_chr07	35257131	TT	GG	1946897826
SNP_P4_101342_35257145	NC_021166.1	Ca_kabuli_chr07	35257145	GG	CC	1946897828
SNP_P4_101343_35257212	NC_021166.1	Ca_kabuli_chr07	35257212	TT	GG	1946897830
SNP_P4_101344_35257511	NC_021166.1	Ca_kabuli_chr07	35257511	CC	GG	1946897833
SNP_P4_101345_35258323	NC_021166.1	Ca_kabuli_chr07	35258323	CC	TT	1946897835
SNP_P4_101346_35259033	NC_021166.1	Ca_kabuli_chr07	35259033	GG	CC	1946897837
SNP_P4_101347_35260182	NC_021166.1	Ca_kabuli_chr07	35260182	GG	AA	1946897839
SNP_P4_101348_35260226	NC_021166.1	Ca_kabuli_chr07	35260226	TT	CC	1946897841
SNP_P4_101349_35260228	NC_021166.1	Ca_kabuli_chr07	35260228	CC	TT	1946897843
SNP_P4_101350_35262827	NC_021166.1	Ca_kabuli_chr07	35262827	AA	GG	1946897845
SNP_P4_101351_35262835	NC_021166.1	Ca_kabuli_chr07	35262835	GG	AA	1946897847
SNP_P4_101352_35263219	NC_021166.1	Ca_kabuli_chr07	35263219	TT	GG	1946897849
SNP_P4_101353_35263736	NC_021166.1	Ca_kabuli_chr07	35263736	CC	GG	1946897851
SNP_P4_101354_35270215	NC_021166.1	Ca_kabuli_chr07	35270215	CC	TT	1946897853
SNP_P4_101355_35273983	NC_021166.1	Ca_kabuli_chr07	35273983	GG	AA	1946897855
SNP_P4_101356_35274680	NC_021166.1	Ca_kabuli_chr07	35274680	GG	AA	1946897858
SNP_P4_101357_35275987	NC_021166.1	Ca_kabuli_chr07	35275987	CC	GG	1946897860
SNP_P4_101358_35278840	NC_021166.1	Ca_kabuli_chr07	35278840	TT	CC	1946897862
SNP_P4_101360_35279169	NC_021166.1	Ca_kabuli_chr07	35279169	AA	CC	1946897864
SNP_P4_101361_35279189	NC_021166.1	Ca_kabuli_chr07	35279189	TT	CC	1946897866
SNP_P4_101362_35279374	NC_021166.1	Ca_kabuli_chr07	35279374	AA	GG	1946897868
SNP_P4_101363_35282415	NC_021166.1	Ca_kabuli_chr07	35282415	GG	TT	1946897870
SNP_P4_101364_35282449	NC_021166.1	Ca_kabuli_chr07	35282449	GG	AA	1946897872
SNP_P4_101365_35282831	NC_021166.1	Ca_kabuli_chr07	35282831	TT	GG	1946897874
SNP_P4_101366_35283079	NC_021166.1	Ca_kabuli_chr07	35283079	TT	GG	1946897876
SNP_P4_101367_35283429	NC_021166.1	Ca_kabuli_chr07	35283429	GG	AA	1946897878
SNP_P4_101368_35283698	NC_021166.1	Ca_kabuli_chr07	35283698	CC	GG	1946897880
SNP_P4_101369_35283737	NC_021166.1	Ca_kabuli_chr07	35283737	CC	TT	1946897882
SNP_P4_101370_35283988	NC_021166.1	Ca_kabuli_chr07	35283988	TT	AA	1946897884
SNP_P4_101371_35283993	NC_021166.1	Ca_kabuli_chr07	35283993	TT	CC	1946897886
SNP_P4_101372_35285465	NC_021166.1	Ca_kabuli_chr07	35285465	AA	CC	1946897888
SNP_P4_101373_35285741	NC_021166.1	Ca_kabuli_chr07	35285741	CC	GG	1946897890
SNP_P4_101375_35289661	NC_021166.1	Ca_kabuli_chr07	35289661	TT	AA	1946897892
SNP_P4_101376_35289951	NC_021166.1	Ca_kabuli_chr07	35289951	GG	AA	1946897894
SNP_P4_101378_35290189	NC_021166.1	Ca_kabuli_chr07	35290189	TT	AA	1946897896
SNP_P4_101380_35290530	NC_021166.1	Ca_kabuli_chr07	35290530	TT	CC	1946897898
SNP_P4_101381_35291823	NC_021166.1	Ca_kabuli_chr07	35291823	GG	TT	1946897900
SNP_P4_101382_35291824	NC_021166.1	Ca_kabuli_chr07	35291824	CC	TT	1946897902
SNP_P4_101383_35291825	NC_021166.1	Ca_kabuli_chr07	35291825	TT	AA	1946897904
SNP_P4_101384_35292029	NC_021166.1	Ca_kabuli_chr07	35292029	AA	GG	1946897906

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_101386_35292069	NC_021166.1	Ca_kabuli_chr07	35292069	TT	AA	1946897910
SNP_P4_101387_35292085	NC_021166.1	Ca_kabuli_chr07	35292085	TT	CC	1946897912
SNP_P4_101388_35292117	NC_021166.1	Ca_kabuli_chr07	35292117	CC	TT	1946897914
SNP_P4_101389_35292197	NC_021166.1	Ca_kabuli_chr07	35292197	TT	GG	1946897916
SNP_P4_101390_35292349	NC_021166.1	Ca_kabuli_chr07	35292349	GG	AA	1946897918
SNP_P4_101391_35292361	NC_021166.1	Ca_kabuli_chr07	35292361	TT	AA	1946897920
SNP_P4_101392_35292366	NC_021166.1	Ca_kabuli_chr07	35292366	CC	TT	1946897922
SNP_P4_101393_35292411	NC_021166.1	Ca_kabuli_chr07	35292411	TT	GG	1946897924
SNP_P4_101394_35293369	NC_021166.1	Ca_kabuli_chr07	35293369	CC	AA	1946897926
SNP_P4_101395_35293444	NC_021166.1	Ca_kabuli_chr07	35293444	TT	CC	1946897928
SNP_P4_101396_35295210	NC_021166.1	Ca_kabuli_chr07	35295210	TT	CC	1946897930
SNP_P4_101397_35295250	NC_021166.1	Ca_kabuli_chr07	35295250	AA	TT	1946897932
SNP_P4_101398_35295404	NC_021166.1	Ca_kabuli_chr07	35295404	TT	CC	1946897934
SNP_P4_101399_35295702	NC_021166.1	Ca_kabuli_chr07	35295702	GG	TT	1946897936
SNP_P4_101400_35295737	NC_021166.1	Ca_kabuli_chr07	35295737	GG	CC	1946897939
SNP_P4_101401_35296645	NC_021166.1	Ca_kabuli_chr07	35296645	TT	CC	1946897941
SNP_P4_101402_35296648	NC_021166.1	Ca_kabuli_chr07	35296648	AA	GG	1946897943
SNP_P4_101403_35296716	NC_021166.1	Ca_kabuli_chr07	35296716	CC	TT	1946897945
SNP_P4_101404_35296728	NC_021166.1	Ca_kabuli_chr07	35296728	GG	AA	1946897947
SNP_P4_101405_35296759	NC_021166.1	Ca_kabuli_chr07	35296759	CC	TT	1946897949
SNP_P4_101406_35296763	NC_021166.1	Ca_kabuli_chr07	35296763	CC	TT	1946897951
SNP_P4_101407_35296848	NC_021166.1	Ca_kabuli_chr07	35296848	TT	CC	1946897953
SNP_P4_101408_35296912	NC_021166.1	Ca_kabuli_chr07	35296912	TT	CC	1946897955
SNP_P4_101409_35296975	NC_021166.1	Ca_kabuli_chr07	35296975	CC	TT	1946897957
SNP_P4_101410_35297314	NC_021166.1	Ca_kabuli_chr07	35297314	TT	CC	1946897959
SNP_P4_101411_35297751	NC_021166.1	Ca_kabuli_chr07	35297751	GG	AA	1946897961
SNP_P4_101412_35298539	NC_021166.1	Ca_kabuli_chr07	35298539	AA	TT	1946897963
SNP_P4_101413_35300471	NC_021166.1	Ca_kabuli_chr07	35300471	GG	AA	1946897966
SNP_P4_101414_35300824	NC_021166.1	Ca_kabuli_chr07	35300824	CC	TT	1946897968
SNP_P4_101415_35302341	NC_021166.1	Ca_kabuli_chr07	35302341	TT	CC	1946897970
SNP_P4_101416_35302545	NC_021166.1	Ca_kabuli_chr07	35302545	AA	CC	1946897972
SNP_P4_101419_35304771	NC_021166.1	Ca_kabuli_chr07	35304771	GG	TT	1946897974
SNP_P4_101420_35305229	NC_021166.1	Ca_kabuli_chr07	35305229	GG	AA	1946897976
SNP_P4_101421_35305410	NC_021166.1	Ca_kabuli_chr07	35305410	GG	AA	1946897978
SNP_P4_101422_35305435	NC_021166.1	Ca_kabuli_chr07	35305435	GG	AA	1946897980
SNP_P4_101423_35305449	NC_021166.1	Ca_kabuli_chr07	35305449	GG	AA	1946897982
SNP_P4_101424_35305483	NC_021166.1	Ca_kabuli_chr07	35305483	AA	TT	1946897984
SNP_P4_101425_35305544	NC_021166.1	Ca_kabuli_chr07	35305544	GG	AA	1946897986
SNP_P4_101426_35307305	NC_021166.1	Ca_kabuli_chr07	35307305	GG	AA	1946897988
SNP_P4_101427_35308299	NC_021166.1	Ca_kabuli_chr07	35308299	TT	GG	1946897990
SNP_P4_101428_35312301	NC_021166.1	Ca_kabuli_chr07	35312301	TT	CC	1946897993

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_101430_35312353	NC_021166.1	Ca_kabuli_chr07	35312353	CC	TT	1946897997
SNP_P4_101431_35312606	NC_021166.1	Ca_kabuli_chr07	35312606	TT	AA	1946897999
SNP_P4_101432_35312648	NC_021166.1	Ca_kabuli_chr07	35312648	AA	GG	1946898001
SNP_P4_101433_35312701	NC_021166.1	Ca_kabuli_chr07	35312701	TT	CC	1946898003
SNP_P4_101434_35312832	NC_021166.1	Ca_kabuli_chr07	35312832	AA	GG	1946898005
SNP_P4_101435_35312840	NC_021166.1	Ca_kabuli_chr07	35312840	GG	TT	1946898007
SNP_P4_101436_35312994	NC_021166.1	Ca_kabuli_chr07	35312994	TT	CC	1946898009
SNP_P4_101437_35313046	NC_021166.1	Ca_kabuli_chr07	35313046	CC	TT	1946898011
SNP_P4_101438_35313064	NC_021166.1	Ca_kabuli_chr07	35313064	AA	GG	1946898013
SNP_P4_101439_35313073	NC_021166.1	Ca_kabuli_chr07	35313073	CC	AA	1946898015
SNP_P4_101440_35313083	NC_021166.1	Ca_kabuli_chr07	35313083	TT	CC	1946898017
SNP_P4_101441_35313280	NC_021166.1	Ca_kabuli_chr07	35313280	CC	TT	1946898019
SNP_P4_101442_35313313	NC_021166.1	Ca_kabuli_chr07	35313313	AA	GG	1946898021
SNP_P4_101443_35313335	NC_021166.1	Ca_kabuli_chr07	35313335	AA	GG	1946898023
SNP_P4_101444_35313536	NC_021166.1	Ca_kabuli_chr07	35313536	AA	CC	1946898025
SNP_P4_101445_35313603	NC_021166.1	Ca_kabuli_chr07	35313603	GG	AA	1946898027
SNP_P4_101447_35313657	NC_021166.1	Ca_kabuli_chr07	35313657	CC	TT	1946898029
SNP_P4_101448_35313691	NC_021166.1	Ca_kabuli_chr07	35313691	AA	CC	1946898031
SNP_P4_101449_35313872	NC_021166.1	Ca_kabuli_chr07	35313872	GG	TT	1946898033
SNP_P4_101450_35313952	NC_021166.1	Ca_kabuli_chr07	35313952	GG	AA	1946898035
SNP_P4_101451_35313968	NC_021166.1	Ca_kabuli_chr07	35313968	CC	AA	1946898037
SNP_P4_101452_35313985	NC_021166.1	Ca_kabuli_chr07	35313985	CC	TT	1946898039
SNP_P4_101453_35314509	NC_021166.1	Ca_kabuli_chr07	35314509	TT	CC	1946898041
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SNP_P4_101457_35314889	NC_021166.1	Ca_kabuli_chr07	35314889	TT	CC	1946898049
SNP_P4_101458_35314890	NC_021166.1	Ca_kabuli_chr07	35314890	GG	AA	1946898051
SNP_P4_101459_35314994	NC_021166.1	Ca_kabuli_chr07	35314994	AA	TT	1946898053
SNP_P4_101460_35315020	NC_021166.1	Ca_kabuli_chr07	35315020	AA	GG	1946898055
SNP_P4_101461_35315036	NC_021166.1	Ca_kabuli_chr07	35315036	AA	GG	1946898057
SNP_P4_101462_35315107	NC_021166.1	Ca_kabuli_chr07	35315107	CC	TT	1946898059
SNP_P4_101463_35315298	NC_021166.1	Ca_kabuli_chr07	35315298	GG	TT	1946898062
SNP_P4_101464_35315316	NC_021166.1	Ca_kabuli_chr07	35315316	CC	TT	1946898064
SNP_P4_101465_35315329	NC_021166.1	Ca_kabuli_chr07	35315329	CC	TT	1946898066
SNP_P4_101466_35315351	NC_021166.1	Ca_kabuli_chr07	35315351	AA	GG	1946898068
SNP_P4_101467_35315472	NC_021166.1	Ca_kabuli_chr07	35315472	CC	TT	1946898070
SNP_P4_101468_35315511	NC_021166.1	Ca_kabuli_chr07	35315511	CC	TT	1946898072
SNP_P4_101469_35315530	NC_021166.1	Ca_kabuli_chr07	35315530	AA	GG	1946898074
SNP_P4_101470_35315827	NC_021166.1	Ca_kabuli_chr07	35315827	CC	TT	1946898076
SNP_P4_101471_35316797	NC_021166.1	Ca_kabuli_chr07	35316797	AA	GG	1946898078

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_101474_35319145	NC_021166.1	Ca_kabuli_chr07	35319145	TT	CC	1946898082
SNP_P4_101475_35319151	NC_021166.1	Ca_kabuli_chr07	35319151	GG	AA	1946898084
SNP_P4_101476_35319220	NC_021166.1	Ca_kabuli_chr07	35319220	GG	AA	1946898086
SNP_P4_101477_35319324	NC_021166.1	Ca_kabuli_chr07	35319324	TT	CC	1946898088
SNP_P4_101478_35319508	NC_021166.1	Ca_kabuli_chr07	35319508	AA	CC	1946898090
SNP_P4_101479_35321349	NC_021166.1	Ca_kabuli_chr07	35321349	CC	TT	1946898092
SNP_P4_101480_35323333	NC_021166.1	Ca_kabuli_chr07	35323333	TT	AA	1946898094
SNP_P4_101481_35327911	NC_021166.1	Ca_kabuli_chr07	35327911	TT	CC	1946898096
SNP_P4_101483_35329456	NC_021166.1	Ca_kabuli_chr07	35329456	GG	TT	1946898098
SNP_P4_101484_35330085	NC_021166.1	Ca_kabuli_chr07	35330085	GG	TT	1946898100
SNP_P4_101485_35330117	NC_021166.1	Ca_kabuli_chr07	35330117	CC	TT	1946898102
SNP_P4_101488_35331566	NC_021166.1	Ca_kabuli_chr07	35331566	AA	GG	1946898104
SNP_P4_101490_35331756	NC_021166.1	Ca_kabuli_chr07	35331756	TT	CC	1946898106
SNP_P4_101491_35331811	NC_021166.1	Ca_kabuli_chr07	35331811	TT	AA	1946898108
SNP_P4_101492_35332690	NC_021166.1	Ca_kabuli_chr07	35332690	TT	CC	1946898111
SNP_P4_101495_35333332	NC_021166.1	Ca_kabuli_chr07	35333332	GG	TT	1946898113
SNP_P4_101496_35333371	NC_021166.1	Ca_kabuli_chr07	35333371	CC	AA	1946898115
SNP_P4_101497_35336063	NC_021166.1	Ca_kabuli_chr07	35336063	AA	GG	1946898117
SNP_P4_101498_35339604	NC_021166.1	Ca_kabuli_chr07	35339604	GG	CC	1946898119
SNP_P4_101500_35339662	NC_021166.1	Ca_kabuli_chr07	35339662	AA	GG	1946898121
SNP_P4_101501_35340282	NC_021166.1	Ca_kabuli_chr07	35340282	AA	TT	1946898123
SNP_P4_101502_35340402	NC_021166.1	Ca_kabuli_chr07	35340402	AA	GG	1946898126
SNP_P4_101503_35340552	NC_021166.1	Ca_kabuli_chr07	35340552	TT	AA	1946898128
SNP_P4_101504_35341086	NC_021166.1	Ca_kabuli_chr07	35341086	CC	TT	1946898130
SNP_P4_101505_35342783	NC_021166.1	Ca_kabuli_chr07	35342783	AA	GG	1946898132
SNP_P4_101506_35343146	NC_021166.1	Ca_kabuli_chr07	35343146	AA	GG	1946898135
SNP_P4_101507_35345352	NC_021166.1	Ca_kabuli_chr07	35345352	AA	GG	1946898137
SNP_P4_101509_35345410	NC_021166.1	Ca_kabuli_chr07	35345410	CC	AA	1946898139
SNP_P4_101510_35345414	NC_021166.1	Ca_kabuli_chr07	35345414	TT	CC	1946898141
SNP_P4_101511_35345418	NC_021166.1	Ca_kabuli_chr07	35345418	CC	TT	1946898143
SNP_P4_101513_35345684	NC_021166.1	Ca_kabuli_chr07	35345684	AA	TT	1946898145
SNP_P4_101514_35345727	NC_021166.1	Ca_kabuli_chr07	35345727	TT	CC	1946898146
SNP_P4_101515_35345731	NC_021166.1	Ca_kabuli_chr07	35345731	TT	GG	1946898147
SNP_P4_101516_35345802	NC_021166.1	Ca_kabuli_chr07	35345802	AA	GG	1946898148
SNP_P4_101517_35346087	NC_021166.1	Ca_kabuli_chr07	35346087	TT	AA	1946898150
SNP_P4_101518_35347054	NC_021166.1	Ca_kabuli_chr07	35347054	CC	AA	1946898152
SNP_P4_101519_35347099	NC_021166.1	Ca_kabuli_chr07	35347099	CC	TT	1946898154
SNP_P4_101520_35347101	NC_021166.1	Ca_kabuli_chr07	35347101	TT	CC	1946898156
SNP_P4_101521_35347438	NC_021166.1	Ca_kabuli_chr07	35347438	GG	AA	1946898159
SNP_P4_101522_35347513	NC_021166.1	Ca_kabuli_chr07	35347513	GG	AA	1946898161
SNP_P4_101523_35347893	NC_021166.1	Ca_kabuli_chr07	35347893	CC	TT	1946898163

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_101529_35357203	NC_021166.1	Ca_kabuli_chr07	35357203	AA	GG	1946898167
SNP_P4_101530_35357248	NC_021166.1	Ca_kabuli_chr07	35357248	CC	TT	1946898169
SNP_P4_101531_35357269	NC_021166.1	Ca_kabuli_chr07	35357269	AA	GG	1946898171
SNP_P4_101532_35357289	NC_021166.1	Ca_kabuli_chr07	35357289	CC	TT	1946898173
SNP_P4_101533_35357297	NC_021166.1	Ca_kabuli_chr07	35357297	GG	CC	1946898175
SNP_P4_101534_35357317	NC_021166.1	Ca_kabuli_chr07	35357317	AA	CC	1946898177
SNP_P4_101535_35357321	NC_021166.1	Ca_kabuli_chr07	35357321	AA	CC	1946898179
SNP_P4_101536_35358269	NC_021166.1	Ca_kabuli_chr07	35358269	CC	AA	1946898181
SNP_P4_101537_35361253	NC_021166.1	Ca_kabuli_chr07	35361253	AA	GG	1946898183
SNP_P4_101538_35361350	NC_021166.1	Ca_kabuli_chr07	35361350	AA	GG	1946898185
SNP_P4_101539_35361357	NC_021166.1	Ca_kabuli_chr07	35361357	TT	CC	1946898187
SNP_P4_101540_35361376	NC_021166.1	Ca_kabuli_chr07	35361376	TT	CC	1946898189
SNP_P4_101541_35361378	NC_021166.1	Ca_kabuli_chr07	35361378	GG	AA	1946898191
SNP_P4_101544_35364092	NC_021166.1	Ca_kabuli_chr07	35364092	GG	AA	1946898193
SNP_P4_101545_35364095	NC_021166.1	Ca_kabuli_chr07	35364095	TT	AA	1946898195
SNP_P4_101546_35364187	NC_021166.1	Ca_kabuli_chr07	35364187	TT	AA	1946898197
SNP_P4_101547_35364531	NC_021166.1	Ca_kabuli_chr07	35364531	AA	GG	1946898199
SNP_P4_101548_35364542	NC_021166.1	Ca_kabuli_chr07	35364542	TT	GG	1946898201
SNP_P4_101549_35364558	NC_021166.1	Ca_kabuli_chr07	35364558	GG	AA	1946898203
SNP_P4_101550_35364723	NC_021166.1	Ca_kabuli_chr07	35364723	TT	CC	1946898205
SNP_P4_101552_35365456	NC_021166.1	Ca_kabuli_chr07	35365456	TT	CC	1946898207
SNP_P4_101553_35365788	NC_021166.1	Ca_kabuli_chr07	35365788	TT	CC	1946898209
SNP_P4_101554_35365804	NC_021166.1	Ca_kabuli_chr07	35365804	TT	CC	1946898211
SNP_P4_101556_35366494	NC_021166.1	Ca_kabuli_chr07	35366494	TT	CC	1946898213
SNP_P4_101559_35366814	NC_021166.1	Ca_kabuli_chr07	35366814	GG	TT	1946898215
SNP_P4_101560_35366816	NC_021166.1	Ca_kabuli_chr07	35366816	CC	TT	1946898217
SNP_P4_101561_35366836	NC_021166.1	Ca_kabuli_chr07	35366836	TT	CC	1946898219
SNP_P4_101562_35366845	NC_021166.1	Ca_kabuli_chr07	35366845	CC	TT	1946898221
SNP_P4_101564_35367079	NC_021166.1	Ca_kabuli_chr07	35367079	GG	AA	1946898223
SNP_P4_101565_35367092	NC_021166.1	Ca_kabuli_chr07	35367092	GG	AA	1946898225
SNP_P4_101566_35367213	NC_021166.1	Ca_kabuli_chr07	35367213	TT	CC	1946898227
SNP_P4_101568_35369051	NC_021166.1	Ca_kabuli_chr07	35369051	TT	CC	1946898229
SNP_P4_101569_35369065	NC_021166.1	Ca_kabuli_chr07	35369065	GG	AA	1946898231
SNP_P4_101570_35369074	NC_021166.1	Ca_kabuli_chr07	35369074	GG	AA	1946898233
SNP_P4_101571_35369079	NC_021166.1	Ca_kabuli_chr07	35369079	AA	GG	1946898236
SNP_P4_101572_35369082	NC_021166.1	Ca_kabuli_chr07	35369082	CC	TT	1946898238
SNP_P4_101573_35369122	NC_021166.1	Ca_kabuli_chr07	35369122	GG	AA	1946898240
SNP_P4_101574_35369131	NC_021166.1	Ca_kabuli_chr07	35369131	TT	AA	1946898242
SNP_P4_101576_35369974	NC_021166.1	Ca_kabuli_chr07	35369974	TT	CC	1946898244
SNP_P4_101577_35370262	NC_021166.1	Ca_kabuli_chr07	35370262	CC	AA	1946898247
SNP_P4_101578_35370275	NC_021166.1	Ca_kabuli_chr07	35370275	TT	CC	1946898249

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_101581_35370458	NC_021166.1	Ca_kabuli_chr07	35370458	CC	TT	1946898253
SNP_P4_101583_35371218	NC_021166.1	Ca_kabuli_chr07	35371218	AA	TT	1946898255
SNP_P4_101584_35372712	NC_021166.1	Ca_kabuli_chr07	35372712	GG	AA	1946898257
SNP_P4_101585_35373633	NC_021166.1	Ca_kabuli_chr07	35373633	CC	AA	1946898259
SNP_P4_101586_35373685	NC_021166.1	Ca_kabuli_chr07	35373685	GG	AA	1946898261
SNP_P4_101587_35373899	NC_021166.1	Ca_kabuli_chr07	35373899	CC	TT	1946898263
SNP_P4_101588_35373908	NC_021166.1	Ca_kabuli_chr07	35373908	GG	AA	1946898267
SNP_P4_101589_35374359	NC_021166.1	Ca_kabuli_chr07	35374359	AA	GG	1946898269
SNP_P4_101590_35374360	NC_021166.1	Ca_kabuli_chr07	35374360	AA	CC	1946898271
SNP_P4_101591_35375701	NC_021166.1	Ca_kabuli_chr07	35375701	CC	GG	1946898273
SNP_P4_101592_35375702	NC_021166.1	Ca_kabuli_chr07	35375702	CC	GG	1946898275
SNP_P4_101594_35376030	NC_021166.1	Ca_kabuli_chr07	35376030	TT	CC	1946898277
SNP_P4_101595_35376046	NC_021166.1	Ca_kabuli_chr07	35376046	AA	TT	1946898279
SNP_P4_101596_35376236	NC_021166.1	Ca_kabuli_chr07	35376236	CC	AA	1946898281
SNP_P4_101597_35376258	NC_021166.1	Ca_kabuli_chr07	35376258	AA	GG	1946898283
SNP_P4_101598_35376584	NC_021166.1	Ca_kabuli_chr07	35376584	TT	CC	1946898285
SNP_P4_101599_35376639	NC_021166.1	Ca_kabuli_chr07	35376639	AA	TT	1946898288
SNP_P4_101600_35379565	NC_021166.1	Ca_kabuli_chr07	35379565	TT	CC	1946898290
SNP_P4_101601_35379602	NC_021166.1	Ca_kabuli_chr07	35379602	AA	GG	1946898292
SNP_P4_101602_35380740	NC_021166.1	Ca_kabuli_chr07	35380740	AA	GG	1946898294
SNP_P4_101603_35382273	NC_021166.1	Ca_kabuli_chr07	35382273	GG	AA	1946898296
SNP_P4_101604_35382395	NC_021166.1	Ca_kabuli_chr07	35382395	CC	TT	1946898298
SNP_P4_101605_35382400	NC_021166.1	Ca_kabuli_chr07	35382400	CC	TT	1946898300
SNP_P4_101606_35382422	NC_021166.1	Ca_kabuli_chr07	35382422	CC	GG	1946898302
SNP_P4_101607_35382469	NC_021166.1	Ca_kabuli_chr07	35382469	TT	CC	1946898304
SNP_P4_101608_35382478	NC_021166.1	Ca_kabuli_chr07	35382478	GG	TT	1946898306
SNP_P4_101610_35382581	NC_021166.1	Ca_kabuli_chr07	35382581	CC	TT	1946898308
SNP_P4_101611_35382686	NC_021166.1	Ca_kabuli_chr07	35382686	CC	GG	1946898310
SNP_P4_101612_35382695	NC_021166.1	Ca_kabuli_chr07	35382695	AA	GG	1946898312
SNP_P4_101613_35382725	NC_021166.1	Ca_kabuli_chr07	35382725	TT	AA	1946898314
SNP_P4_101614_35382784	NC_021166.1	Ca_kabuli_chr07	35382784	TT	CC	1946898316
SNP_P4_101615_35382792	NC_021166.1	Ca_kabuli_chr07	35382792	TT	CC	1946898318
SNP_P4_101616_35382795	NC_021166.1	Ca_kabuli_chr07	35382795	AA	CC	1946898320
SNP_P4_101617_35382797	NC_021166.1	Ca_kabuli_chr07	35382797	GG	AA	1946898322
SNP_P4_101618_35382803	NC_021166.1	Ca_kabuli_chr07	35382803	AA	CC	1946898324
SNP_P4_101619_35382836	NC_021166.1	Ca_kabuli_chr07	35382836	AA	GG	1946898326
SNP_P4_101620_35382946	NC_021166.1	Ca_kabuli_chr07	35382946	TT	GG	1946898328
SNP_P4_101621_35382981	NC_021166.1	Ca_kabuli_chr07	35382981	GG	AA	1946898330
SNP_P4_101622_35383006	NC_021166.1	Ca_kabuli_chr07	35383006	GG	AA	1946898332
SNP_P4_101623_35383512	NC_021166.1	Ca_kabuli_chr07	35383512	TT	GG	1946898334
SNP_P4_101624_35383535	NC_021166.1	Ca_kabuli_chr07	35383535	GG	AA	1946898337

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_101626_35383825	NC_021166.1	Ca_kabuli_chr07	35383825	TT	CC	1946898341
SNP_P4_101627_35384730	NC_021166.1	Ca_kabuli_chr07	35384730	GG	AA	1946898343
SNP_P4_101628_35384979	NC_021166.1	Ca_kabuli_chr07	35384979	AA	TT	1946898345
SNP_P4_101629_35384989	NC_021166.1	Ca_kabuli_chr07	35384989	AA	TT	1946898347
SNP_P4_101631_35385631	NC_021166.1	Ca_kabuli_chr07	35385631	AA	TT	1946898350
SNP_P4_101632_35385718	NC_021166.1	Ca_kabuli_chr07	35385718	AA	CC	1946898352
SNP_P4_101633_35385738	NC_021166.1	Ca_kabuli_chr07	35385738	TT	AA	1946898354
SNP_P4_101634_35385741	NC_021166.1	Ca_kabuli_chr07	35385741	TT	CC	1946898356
SNP_P4_101635_35385965	NC_021166.1	Ca_kabuli_chr07	35385965	CC	TT	1946898358
SNP_P4_101636_35385966	NC_021166.1	Ca_kabuli_chr07	35385966	AA	GG	1946898360
SNP_P4_101637_35385968	NC_021166.1	Ca_kabuli_chr07	35385968	GG	AA	1946898362
SNP_P4_101638_35385982	NC_021166.1	Ca_kabuli_chr07	35385982	GG	TT	1946898364
SNP_P4_101639_35389083	NC_021166.1	Ca_kabuli_chr07	35389083	CC	TT	1946898366
SNP_P4_101640_35389092	NC_021166.1	Ca_kabuli_chr07	35389092	TT	AA	1946898368
SNP_P4_101641_35389095	NC_021166.1	Ca_kabuli_chr07	35389095	TT	CC	1946898370
SNP_P4_101642_35389103	NC_021166.1	Ca_kabuli_chr07	35389103	AA	GG	1946898372
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SNP_P4_101646_35407302	NC_021166.1	Ca_kabuli_chr07	35407302	TT	CC	1946898381
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SNP_P4_101650_35422226	NC_021166.1	Ca_kabuli_chr07	35422226	GG	AA	1946898390
SNP_P4_101651_35423243	NC_021166.1	Ca_kabuli_chr07	35423243	CC	TT	1946898392
SNP_P4_101653_35430574	NC_021166.1	Ca_kabuli_chr07	35430574	AA	GG	1946898394
SNP_P4_101654_35434709	NC_021166.1	Ca_kabuli_chr07	35434709	TT	CC	1946898397
SNP_P4_101655_35454384	NC_021166.1	Ca_kabuli_chr07	35454384	TT	CC	1946898399
SNP_P4_101656_35461922	NC_021166.1	Ca_kabuli_chr07	35461922	TT	CC	1946898401
SNP_P4_101657_35461977	NC_021166.1	Ca_kabuli_chr07	35461977	TT	CC	1946898403
SNP_P4_101659_35461993	NC_021166.1	Ca_kabuli_chr07	35461993	AA	TT	1946898406
SNP_P4_101660_35461997	NC_021166.1	Ca_kabuli_chr07	35461997	GG	AA	1946898408
SNP_P4_101661_35462012	NC_021166.1	Ca_kabuli_chr07	35462012	TT	CC	1946898410
SNP_P4_101662_35462035	NC_021166.1	Ca_kabuli_chr07	35462035	AA	CC	1946898412
SNP_P4_101663_35462077	NC_021166.1	Ca_kabuli_chr07	35462077	TT	CC	1946898414
SNP_P4_101664_35463501	NC_021166.1	Ca_kabuli_chr07	35463501	AA	GG	1946898416
SNP_P4_101665_35463520	NC_021166.1	Ca_kabuli_chr07	35463520	AA	GG	1946898418
SNP_P4_101666_35463543	NC_021166.1	Ca_kabuli_chr07	35463543	GG	AA	1946898421
SNP_P4_101667_35463574	NC_021166.1	Ca_kabuli_chr07	35463574	AA	CC	1946898423
SNP_P4_101668_35463597	NC_021166.1	Ca_kabuli_chr07	35463597	TT	CC	1946898425
SNP_P4_101669_35463907	NC_021166.1	Ca_kabuli_chr07	35463907	AA	GG	1946898427

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_101672_35467143	NC_021166.1	Ca_kabuli_chr07	35467143	GG	CC	1946898434
SNP_P4_101673_35467190	NC_021166.1	Ca_kabuli_chr07	35467190	TT	CC	1946898436
SNP_P4_101674_35473144	NC_021166.1	Ca_kabuli_chr07	35473144	GG	AA	1946898438
SNP_P4_101675_35476295	NC_021166.1	Ca_kabuli_chr07	35476295	TT	CC	1946898440
SNP_P4_101676_35480143	NC_021166.1	Ca_kabuli_chr07	35480143	TT	CC	1946898442
SNP_P4_101678_35480375	NC_021166.1	Ca_kabuli_chr07	35480375	CC	TT	1946898444
SNP_P4_101679_35480393	NC_021166.1	Ca_kabuli_chr07	35480393	AA	CC	1946898446
SNP_P4_101680_35480402	NC_021166.1	Ca_kabuli_chr07	35480402	AA	GG	1946898448
SNP_P4_101681_35480442	NC_021166.1	Ca_kabuli_chr07	35480442	AA	CC	1946898450
SNP_P4_101682_35480462	NC_021166.1	Ca_kabuli_chr07	35480462	CC	TT	1946898453
SNP_P4_101684_35481301	NC_021166.1	Ca_kabuli_chr07	35481301	TT	GG	1946898455
SNP_P4_101685_35481337	NC_021166.1	Ca_kabuli_chr07	35481337	CC	TT	1946898457
SNP_P4_101687_35481622	NC_021166.1	Ca_kabuli_chr07	35481622	AA	CC	1946898459
SNP_P4_101688_35481640	NC_021166.1	Ca_kabuli_chr07	35481640	AA	TT	1946898461
SNP_P4_101689_35481683	NC_021166.1	Ca_kabuli_chr07	35481683	AA	CC	1946898463
SNP_P4_101690_35481686	NC_021166.1	Ca_kabuli_chr07	35481686	GG	AA	1946898465
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SNP_P4_101692_35481758	NC_021166.1	Ca_kabuli_chr07	35481758	CC	AA	1946898469
SNP_P4_101693_35481808	NC_021166.1	Ca_kabuli_chr07	35481808	TT	CC	1946898471
SNP_P4_101694_35482073	NC_021166.1	Ca_kabuli_chr07	35482073	TT	AA	1946898473
SNP_P4_101695_35501017	NC_021166.1	Ca_kabuli_chr07	35501017	CC	AA	1946898475
SNP_P4_101696_35501363	NC_021166.1	Ca_kabuli_chr07	35501363	GG	AA	1946898477
SNP_P4_101697_35501364	NC_021166.1	Ca_kabuli_chr07	35501364	AA	GG	1946898479
SNP_P4_101698_35501408	NC_021166.1	Ca_kabuli_chr07	35501408	TT	CC	1946898481
SNP_P4_101699_35501498	NC_021166.1	Ca_kabuli_chr07	35501498	AA	CC	1946898483
SNP_P4_101700_35501542	NC_021166.1	Ca_kabuli_chr07	35501542	TT	CC	1946898485
SNP_P4_101701_35501582	NC_021166.1	Ca_kabuli_chr07	35501582	AA	GG	1946898487
SNP_P4_101702_35501661	NC_021166.1	Ca_kabuli_chr07	35501661	AA	CC	1946898489
SNP_P4_101703_35558961	NC_021166.1	Ca_kabuli_chr07	35558961	AA	GG	1946898491
SNP_P4_101705_35568421	NC_021166.1	Ca_kabuli_chr07	35568421	AA	TT	1946898493
SNP_P4_101706_35568423	NC_021166.1	Ca_kabuli_chr07	35568423	TT	AA	1946898495
SNP_P4_101707_35574832	NC_021166.1	Ca_kabuli_chr07	35574832	GG	AA	1946898497
SNP_P4_101708_35580953	NC_021166.1	Ca_kabuli_chr07	35580953	GG	AA	1946898499
SNP_P4_101711_35605758	NC_021166.1	Ca_kabuli_chr07	35605758	GG	AA	1946898501
SNP_P4_101713_35607395	NC_021166.1	Ca_kabuli_chr07	35607395	TT	CC	1946898503
SNP_P4_101714_35612638	NC_021166.1	Ca_kabuli_chr07	35612638	GG	TT	1946898505
SNP_P4_101716_35640379	NC_021166.1	Ca_kabuli_chr07	35640379	AA	GG	1946898507
SNP_P4_101717_35640380	NC_021166.1	Ca_kabuli_chr07	35640380	AA	GG	1946898509
SNP_P4_101718_35640392	NC_021166.1	Ca_kabuli_chr07	35640392	TT	CC	1946898511
SNP_P4_101720_35650857	NC_021166.1	Ca_kabuli_chr07	35650857	CC	TT	1946898513

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_101722_35691985	NC_021166.1	Ca_kabuli_chr07	35691985	AA	CC	1946898517
SNP_P4_101726_35782770	NC_021166.1	Ca_kabuli_chr07	35782770	CC	TT	1946898519
SNP_P4_101727_35783103	NC_021166.1	Ca_kabuli_chr07	35783103	AA	GG	1946898521
SNP_P4_101728_35785909	NC_021166.1	Ca_kabuli_chr07	35785909	CC	GG	1946898523
SNP_P4_101729_35785943	NC_021166.1	Ca_kabuli_chr07	35785943	AA	GG	1946898525
SNP_P4_101730_35786295	NC_021166.1	Ca_kabuli_chr07	35786295	TT	CC	1946898527
SNP_P4_101731_35786366	NC_021166.1	Ca_kabuli_chr07	35786366	GG	AA	1946898529
SNP_P4_101733_35786959	NC_021166.1	Ca_kabuli_chr07	35786959	AA	TT	1946898531
SNP_P4_101735_35787556	NC_021166.1	Ca_kabuli_chr07	35787556	GG	AA	1946898534
SNP_P4_101736_35787626	NC_021166.1	Ca_kabuli_chr07	35787626	GG	CC	1946898536
SNP_P4_101738_35794061	NC_021166.1	Ca_kabuli_chr07	35794061	GG	AA	1946898538
SNP_P4_101741_35854711	NC_021166.1	Ca_kabuli_chr07	35854711	CC	TT	1946898540
SNP_P4_101744_35863340	NC_021166.1	Ca_kabuli_chr07	35863340	AA	GG	1946898542
SNP_P4_101745_35864074	NC_021166.1	Ca_kabuli_chr07	35864074	TT	CC	1946898544
SNP_P4_101746_35868728	NC_021166.1	Ca_kabuli_chr07	35868728	AA	GG	1946898546
SNP_P4_101748_35893277	NC_021166.1	Ca_kabuli_chr07	35893277	AA	GG	1946898548
SNP_P4_101749_35902733	NC_021166.1	Ca_kabuli_chr07	35902733	TT	CC	1946898550
SNP_P4_101750_35905336	NC_021166.1	Ca_kabuli_chr07	35905336	GG	AA	1946898551
SNP_P4_101751_35917644	NC_021166.1	Ca_kabuli_chr07	35917644	GG	TT	1946898552
SNP_P4_101752_35920403	NC_021166.1	Ca_kabuli_chr07	35920403	AA	GG	1946898553
SNP_P4_101754_35932532	NC_021166.1	Ca_kabuli_chr07	35932532	AA	GG	1946898555
SNP_P4_101756_35939301	NC_021166.1	Ca_kabuli_chr07	35939301	CC	TT	1946898557
SNP_P4_101757_35941967	NC_021166.1	Ca_kabuli_chr07	35941967	AA	GG	1946898558
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SNP_P4_101760_35942646	NC_021166.1	Ca_kabuli_chr07	35942646	AA	GG	1946898565
SNP_P4_101761_35943059	NC_021166.1	Ca_kabuli_chr07	35943059	AA	CC	1946898567
SNP_P4_101762_35943105	NC_021166.1	Ca_kabuli_chr07	35943105	AA	GG	1946898569
SNP_P4_101763_35943496	NC_021166.1	Ca_kabuli_chr07	35943496	TT	GG	1946898571
SNP_P4_101764_35943523	NC_021166.1	Ca_kabuli_chr07	35943523	AA	GG	1946898573
SNP_P4_101765_35943771	NC_021166.1	Ca_kabuli_chr07	35943771	GG	AA	1946898575
SNP_P4_101766_35950963	NC_021166.1	Ca_kabuli_chr07	35950963	AA	GG	1946898577
SNP_P4_101767_35950977	NC_021166.1	Ca_kabuli_chr07	35950977	TT	GG	1946898579
SNP_P4_101768_35951058	NC_021166.1	Ca_kabuli_chr07	35951058	CC	GG	1946898581
SNP_P4_101769_35951549	NC_021166.1	Ca_kabuli_chr07	35951549	AA	GG	1946898583
SNP_P4_101770_35951584	NC_021166.1	Ca_kabuli_chr07	35951584	AA	GG	1946898585
SNP_P4_101771_35953547	NC_021166.1	Ca_kabuli_chr07	35953547	CC	TT	1946898587
SNP_P4_101772_35953989	NC_021166.1	Ca_kabuli_chr07	35953989	CC	AA	1946898589
SNP_P4_101773_35955224	NC_021166.1	Ca_kabuli_chr07	35955224	CC	AA	1946898591
SNP_P4_101774_35959878	NC_021166.1	Ca_kabuli_chr07	35959878	GG	AA	1946898593
SNP_P4_101775_35959982	NC_021166.1	Ca_kabuli_chr07	35959982	CC	GG	1946898595

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_101778_35965685	NC_021166.1	Ca_kabuli_chr07	35965685	CC	AA	1946898601
SNP_P4_101779_35971515	NC_021166.1	Ca_kabuli_chr07	35971515	TT	CC	1946898603
SNP_P4_101780_35973621	NC_021166.1	Ca_kabuli_chr07	35973621	AA	CC	1946898605
SNP_P4_101781_35973709	NC_021166.1	Ca_kabuli_chr07	35973709	AA	GG	1946898607
SNP_P4_101782_35979210	NC_021166.1	Ca_kabuli_chr07	35979210	CC	TT	1946898609
SNP_P4_101783_35979228	NC_021166.1	Ca_kabuli_chr07	35979228	GG	TT	1946898611
SNP_P4_101784_35979286	NC_021166.1	Ca_kabuli_chr07	35979286	CC	GG	1946898613
SNP_P4_101785_35979649	NC_021166.1	Ca_kabuli_chr07	35979649	AA	GG	1946898615
SNP_P4_101786_35982212	NC_021166.1	Ca_kabuli_chr07	35982212	AA	GG	1946898617
SNP_P4_101787_35982293	NC_021166.1	Ca_kabuli_chr07	35982293	GG	AA	1946898619
SNP_P4_101788_35995705	NC_021166.1	Ca_kabuli_chr07	35995705	CC	AA	1946898621
SNP_P4_101789_35998671	NC_021166.1	Ca_kabuli_chr07	35998671	GG	AA	1946898623
SNP_P4_101790_36007830	NC_021166.1	Ca_kabuli_chr07	36007830	AA	GG	1946898625
SNP_P4_101792_36009006	NC_021166.1	Ca_kabuli_chr07	36009006	AA	TT	1946898627
SNP_P4_101793_36009611	NC_021166.1	Ca_kabuli_chr07	36009611	GG	AA	1946898629
SNP_P4_101794_36059586	NC_021166.1	Ca_kabuli_chr07	36059586	TT	GG	1946898631
SNP_P4_101795_36064685	NC_021166.1	Ca_kabuli_chr07	36064685	TT	GG	1946898633
SNP_P4_101796_36065394	NC_021166.1	Ca_kabuli_chr07	36065394	AA	GG	1946898635
SNP_P4_101798_36133028	NC_021166.1	Ca_kabuli_chr07	36133028	TT	CC	1946898637
SNP_P4_101799_36133131	NC_021166.1	Ca_kabuli_chr07	36133131	AA	CC	1946898639
SNP_P4_101800_36133189	NC_021166.1	Ca_kabuli_chr07	36133189	TT	CC	1946898641
SNP_P4_101801_36133216	NC_021166.1	Ca_kabuli_chr07	36133216	CC	TT	1946898643
SNP_P4_101802_36133272	NC_021166.1	Ca_kabuli_chr07	36133272	AA	GG	1946898645
SNP_P4_101803_36133293	NC_021166.1	Ca_kabuli_chr07	36133293	CC	AA	1946898647
SNP_P4_101804_36133311	NC_021166.1	Ca_kabuli_chr07	36133311	CC	TT	1946898649
SNP_P4_101806_36150642	NC_021166.1	Ca_kabuli_chr07	36150642	TT	GG	1946898651
SNP_P4_101807_36236254	NC_021166.1	Ca_kabuli_chr07	36236254	TT	AA	1946898653
SNP_P4_101809_36281859	NC_021166.1	Ca_kabuli_chr07	36281859	AA	GG	1946898655
SNP_P4_101811_36316780	NC_021166.1	Ca_kabuli_chr07	36316780	CC	TT	1946898657
SNP_P4_101812_36318733	NC_021166.1	Ca_kabuli_chr07	36318733	TT	CC	1946898659
SNP_P4_101813_36321252	NC_021166.1	Ca_kabuli_chr07	36321252	TT	AA	1946898661
SNP_P4_101814_36340087	NC_021166.1	Ca_kabuli_chr07	36340087	TT	AA	1946898663
SNP_P4_101815_36341428	NC_021166.1	Ca_kabuli_chr07	36341428	CC	TT	1946898665
SNP_P4_101817_36375084	NC_021166.1	Ca_kabuli_chr07	36375084	GG	AA	1946898667
SNP_P4_101818_36375682	NC_021166.1	Ca_kabuli_chr07	36375682	TT	GG	1946898669
SNP_P4_101819_36375688	NC_021166.1	Ca_kabuli_chr07	36375688	TT	CC	1946898671
SNP_P4_101820_36375752	NC_021166.1	Ca_kabuli_chr07	36375752	AA	GG	1946898673
SNP_P4_101821_36375785	NC_021166.1	Ca_kabuli_chr07	36375785	AA	GG	1946898675
SNP_P4_101822_36375796	NC_021166.1	Ca_kabuli_chr07	36375796	GG	TT	1946898677
SNP_P4_101823_36375830	NC_021166.1	Ca_kabuli_chr07	36375830	AA	GG	1946898679

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_101825_36375875	NC_021166.1	Ca_kabuli_chr07	36375875	TT	CC	1946898683
SNP_P4_101826_36375994	NC_021166.1	Ca_kabuli_chr07	36375994	GG	AA	1946898685
SNP_P4_101827_36382973	NC_021166.1	Ca_kabuli_chr07	36382973	CC	TT	1946898687
SNP_P4_101828_36387365	NC_021166.1	Ca_kabuli_chr07	36387365	TT	CC	1946898689
SNP_P4_101829_36407384	NC_021166.1	Ca_kabuli_chr07	36407384	AA	GG	1946898691
SNP_P4_101830_36407390	NC_021166.1	Ca_kabuli_chr07	36407390	AA	TT	1946898693
SNP_P4_101831_36432311	NC_021166.1	Ca_kabuli_chr07	36432311	GG	AA	1946898695
SNP_P4_101832_36432372	NC_021166.1	Ca_kabuli_chr07	36432372	TT	CC	1946898697
SNP_P4_101834_36454827	NC_021166.1	Ca_kabuli_chr07	36454827	AA	GG	1946898699
SNP_P4_101836_36477987	NC_021166.1	Ca_kabuli_chr07	36477987	AA	CC	1946898701
SNP_P4_101837_36501698	NC_021166.1	Ca_kabuli_chr07	36501698	TT	AA	1946898703
SNP_P4_101838_36524923	NC_021166.1	Ca_kabuli_chr07	36524923	GG	CC	1946898705
SNP_P4_101839_36525369	NC_021166.1	Ca_kabuli_chr07	36525369	AA	GG	1946898707
SNP_P4_101840_36525383	NC_021166.1	Ca_kabuli_chr07	36525383	TT	CC	1946898709
SNP_P4_101841_36527687	NC_021166.1	Ca_kabuli_chr07	36527687	AA	CC	1946898711
SNP_P4_101842_36528546	NC_021166.1	Ca_kabuli_chr07	36528546	AA	TT	1946898714
SNP_P4_101843_36532457	NC_021166.1	Ca_kabuli_chr07	36532457	TT	CC	1946898716
SNP_P4_101847_36580452	NC_021166.1	Ca_kabuli_chr07	36580452	TT	GG	1946898718
SNP_P4_101849_36617142	NC_021166.1	Ca_kabuli_chr07	36617142	TT	CC	1946898720
SNP_P4_101850_36663608	NC_021166.1	Ca_kabuli_chr07	36663608	AA	CC	1946898722
SNP_P4_101852_36664012	NC_021166.1	Ca_kabuli_chr07	36664012	TT	AA	1946898724
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SNP_P4_101863_36750002	NC_021166.1	Ca_kabuli_chr07	36750002	AA	GG	1946898737
SNP_P4_101864_36750437	NC_021166.1	Ca_kabuli_chr07	36750437	TT	CC	1946898739
SNP_P4_101865_36750443	NC_021166.1	Ca_kabuli_chr07	36750443	AA	GG	1946898741
SNP_P4_101866_36750531	NC_021166.1	Ca_kabuli_chr07	36750531	AA	CC	1946898743
SNP_P4_101867_36750599	NC_021166.1	Ca_kabuli_chr07	36750599	CC	TT	1946898745
SNP_P4_101868_36750795	NC_021166.1	Ca_kabuli_chr07	36750795	AA	CC	1946898747
SNP_P4_101869_36750811	NC_021166.1	Ca_kabuli_chr07	36750811	GG	CC	1946898749
SNP_P4_101870_36750888	NC_021166.1	Ca_kabuli_chr07	36750888	AA	CC	1946898751
SNP_P4_101871_36789791	NC_021166.1	Ca_kabuli_chr07	36789791	CC	TT	1946898753
SNP_P4_101872_36829772	NC_021166.1	Ca_kabuli_chr07	36829772	CC	TT	1946898755
SNP_P4_101873_36841248	NC_021166.1	Ca_kabuli_chr07	36841248	GG	AA	1946898757
SNP_P4_101874_36841249	NC_021166.1	Ca_kabuli_chr07	36841249	CC	TT	1946898759
SNP_P4_101875_36843539	NC_021166.1	Ca_kabuli_chr07	36843539	CC	TT	1946898761
SNP_P4_101877_36881396	NC_021166.1	Ca_kabuli_chr07	36881396	AA	GG	1946898763
SNP_P4_101878_36882702	NC_021166.1	Ca_kabuli_chr07	36882702	GG	TT	1946898766

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_101881_36907253	NC_021166.1	Ca_kabuli_chr07	36907253	AA	GG	1946898772
SNP_P4_101882_36966388	NC_021166.1	Ca_kabuli_chr07	36966388	AA	GG	1946898774
SNP_P4_101883_36969300	NC_021166.1	Ca_kabuli_chr07	36969300	TT	CC	1946898776
SNP_P4_101885_36989664	NC_021166.1	Ca_kabuli_chr07	36989664	TT	CC	1946898778
SNP_P4_101886_36998163	NC_021166.1	Ca_kabuli_chr07	36998163	GG	AA	1946898780
SNP_P4_101887_36998224	NC_021166.1	Ca_kabuli_chr07	36998224	GG	AA	1946898782
SNP_P4_101888_36998226	NC_021166.1	Ca_kabuli_chr07	36998226	GG	AA	1946898784
SNP_P4_101889_36998277	NC_021166.1	Ca_kabuli_chr07	36998277	GG	AA	1946898786
SNP_P4_101890_36998824	NC_021166.1	Ca_kabuli_chr07	36998824	GG	AA	1946898788
SNP_P4_101892_37016274	NC_021166.1	Ca_kabuli_chr07	37016274	CC	TT	1946898790
SNP_P4_101893_37016275	NC_021166.1	Ca_kabuli_chr07	37016275	AA	GG	1946898792
SNP_P4_101894_37016321	NC_021166.1	Ca_kabuli_chr07	37016321	TT	CC	1946898794
SNP_P4_101896_37037880	NC_021166.1	Ca_kabuli_chr07	37037880	TT	CC	1946898796
SNP_P4_101898_37050063	NC_021166.1	Ca_kabuli_chr07	37050063	TT	GG	1946898798
SNP_P4_101899_37066851	NC_021166.1	Ca_kabuli_chr07	37066851	AA	GG	1946898800
SNP_P4_101900_37089580	NC_021166.1	Ca_kabuli_chr07	37089580	AA	GG	1946898802
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SNP_P4_101902_37112214	NC_021166.1	Ca_kabuli_chr07	37112214	AA	TT	1946898806
SNP_P4_101903_37112343	NC_021166.1	Ca_kabuli_chr07	37112343	GG	AA	1946898808
SNP_P4_101904_37112580	NC_021166.1	Ca_kabuli_chr07	37112580	GG	AA	1946898810
SNP_P4_101905_37112607	NC_021166.1	Ca_kabuli_chr07	37112607	CC	TT	1946898812
SNP_P4_101906_37112645	NC_021166.1	Ca_kabuli_chr07	37112645	AA	GG	1946898814
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SNP_P4_101912_37213050	NC_021166.1	Ca_kabuli_chr07	37213050	TT	CC	1946898822
SNP_P4_101913_37213105	NC_021166.1	Ca_kabuli_chr07	37213105	AA	GG	1946898824
SNP_P4_101914_37213156	NC_021166.1	Ca_kabuli_chr07	37213156	CC	AA	1946898826
SNP_P4_101915_37213282	NC_021166.1	Ca_kabuli_chr07	37213282	TT	AA	1946898828
SNP_P4_101916_37213363	NC_021166.1	Ca_kabuli_chr07	37213363	AA	GG	1946898830
SNP_P4_101917_37213390	NC_021166.1	Ca_kabuli_chr07	37213390	AA	GG	1946898832
SNP_P4_101918_37213424	NC_021166.1	Ca_kabuli_chr07	37213424	AA	GG	1946898835
SNP_P4_101919_37213492	NC_021166.1	Ca_kabuli_chr07	37213492	AA	GG	1946898837
SNP_P4_101920_37226220	NC_021166.1	Ca_kabuli_chr07	37226220	AA	CC	1946898839
SNP_P4_101921_37228646	NC_021166.1	Ca_kabuli_chr07	37228646	TT	CC	1946898841
SNP_P4_101922_37235780	NC_021166.1	Ca_kabuli_chr07	37235780	GG	CC	1946898843
SNP_P4_101923_37236135	NC_021166.1	Ca_kabuli_chr07	37236135	TT	AA	1946898845
SNP_P4_101924_37236197	NC_021166.1	Ca_kabuli_chr07	37236197	CC	TT	1946898847
SNP_P4_101925_37236223	NC_021166.1	Ca_kabuli_chr07	37236223	GG	AA	1946898849
SNP_P4_101926_37236243	NC_021166.1	Ca_kabuli_chr07	37236243	TT	CC	1946898851

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_101928_37248229	NC_021166.1	Ca_kabuli_chr07	37248229	TT	AA	1946898855
SNP_P4_101929_37251714	NC_021166.1	Ca_kabuli_chr07	37251714	TT	CC	1946898857
SNP_P4_101930_37255474	NC_021166.1	Ca_kabuli_chr07	37255474	CC	TT	1946898859
SNP_P4_101931_37257096	NC_021166.1	Ca_kabuli_chr07	37257096	CC	GG	1946898861
SNP_P4_101932_37260119	NC_021166.1	Ca_kabuli_chr07	37260119	TT	CC	1946898863
SNP_P4_101933_37262688	NC_021166.1	Ca_kabuli_chr07	37262688	TT	GG	1946898865
SNP_P4_101934_37270834	NC_021166.1	Ca_kabuli_chr07	37270834	TT	CC	1946898867
SNP_P4_101935_37274363	NC_021166.1	Ca_kabuli_chr07	37274363	AA	GG	1946898869
SNP_P4_101936_37274372	NC_021166.1	Ca_kabuli_chr07	37274372	CC	GG	1946898871
SNP_P4_101937_37274428	NC_021166.1	Ca_kabuli_chr07	37274428	TT	CC	1946898873
SNP_P4_101938_37281954	NC_021166.1	Ca_kabuli_chr07	37281954	AA	TT	1946898875
SNP_P4_101940_37282115	NC_021166.1	Ca_kabuli_chr07	37282115	TT	CC	1946898877
SNP_P4_101941_37282148	NC_021166.1	Ca_kabuli_chr07	37282148	AA	GG	1946898879
SNP_P4_101942_37282586	NC_021166.1	Ca_kabuli_chr07	37282586	AA	TT	1946898881
SNP_P4_101943_37292301	NC_021166.1	Ca_kabuli_chr07	37292301	AA	GG	1946898883
SNP_P4_101944_37292376	NC_021166.1	Ca_kabuli_chr07	37292376	AA	GG	1946898885
SNP_P4_101945_37292550	NC_021166.1	Ca_kabuli_chr07	37292550	AA	TT	1946898887
SNP_P4_101946_37292610	NC_021166.1	Ca_kabuli_chr07	37292610	GG	TT	1946898889
SNP_P4_101947_37292645	NC_021166.1	Ca_kabuli_chr07	37292645	TT	AA	1946898892
SNP_P4_101948_37292662	NC_021166.1	Ca_kabuli_chr07	37292662	CC	AA	1946898894
SNP_P4_101949_37292667	NC_021166.1	Ca_kabuli_chr07	37292667	TT	AA	1946898896
SNP_P4_101950_37302094	NC_021166.1	Ca_kabuli_chr07	37302094	GG	CC	1946898898
SNP_P4_101951_37302926	NC_021166.1	Ca_kabuli_chr07	37302926	AA	TT	1946898900
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SNP_P4_101958_37316041	NC_021166.1	Ca_kabuli_chr07	37316041	AA	GG	1946898914
SNP_P4_101959_37316049	NC_021166.1	Ca_kabuli_chr07	37316049	AA	GG	1946898917
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SNP_P4_101961_37316499	NC_021166.1	Ca_kabuli_chr07	37316499	AA	GG	1946898921
SNP_P4_101962_37321503	NC_021166.1	Ca_kabuli_chr07	37321503	CC	GG	1946898923
SNP_P4_101963_37321548	NC_021166.1	Ca_kabuli_chr07	37321548	AA	CC	1946898925
SNP_P4_101964_37321549	NC_021166.1	Ca_kabuli_chr07	37321549	AA	GG	1946898926
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SNP_P4_101966_37323189	NC_021166.1	Ca_kabuli_chr07	37323189	GG	AA	1946898930
SNP_P4_101967_37324306	NC_021166.1	Ca_kabuli_chr07	37324306	TT	GG	1946898932
SNP_P4_101968_37339316	NC_021166.1	Ca_kabuli_chr07	37339316	TT	CC	1946898934
SNP_P4_101969_37339319	NC_021166.1	Ca_kabuli_chr07	37339319	GG	TT	1946898936

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_101971_37347143	NC_021166.1	Ca_kabuli_chr07	37347143	GG	CC	1946898940
SNP_P4_101972_37349396	NC_021166.1	Ca_kabuli_chr07	37349396	AA	GG	1946898942
SNP_P4_101973_37349397	NC_021166.1	Ca_kabuli_chr07	37349397	CC	GG	1946898944
SNP_P4_101974_37350358	NC_021166.1	Ca_kabuli_chr07	37350358	TT	AA	1946898946
SNP_P4_101975_37350361	NC_021166.1	Ca_kabuli_chr07	37350361	AA	GG	1946898948
SNP_P4_101976_37350362	NC_021166.1	Ca_kabuli_chr07	37350362	GG	TT	1946898950
SNP_P4_101977_37366427	NC_021166.1	Ca_kabuli_chr07	37366427	GG	CC	1946898952
SNP_P4_101978_37367176	NC_021166.1	Ca_kabuli_chr07	37367176	AA	GG	1946898954
SNP_P4_101979_37367177	NC_021166.1	Ca_kabuli_chr07	37367177	AA	TT	1946898956
SNP_P4_101980_37367193	NC_021166.1	Ca_kabuli_chr07	37367193	TT	GG	1946898958
SNP_P4_101981_37370017	NC_021166.1	Ca_kabuli_chr07	37370017	TT	CC	1946898959
SNP_P4_101982_37370080	NC_021166.1	Ca_kabuli_chr07	37370080	AA	TT	1946898961
SNP_P4_101983_37370333	NC_021166.1	Ca_kabuli_chr07	37370333	GG	TT	1946898963
SNP_P4_101984_37372023	NC_021166.1	Ca_kabuli_chr07	37372023	GG	TT	1946898965
SNP_P4_101985_37372128	NC_021166.1	Ca_kabuli_chr07	37372128	GG	TT	1946898967
SNP_P4_101986_37372158	NC_021166.1	Ca_kabuli_chr07	37372158	AA	TT	1946898969
SNP_P4_101987_37372387	NC_021166.1	Ca_kabuli_chr07	37372387	CC	TT	1946898971
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SNP_P4_101989_37372971	NC_021166.1	Ca_kabuli_chr07	37372971	CC	TT	1946898975
SNP_P4_101990_37374030	NC_021166.1	Ca_kabuli_chr07	37374030	CC	AA	1946898977
SNP_P4_101991_37374036	NC_021166.1	Ca_kabuli_chr07	37374036	GG	AA	1946898979
SNP_P4_101992_37374227	NC_021166.1	Ca_kabuli_chr07	37374227	TT	GG	1946898981
SNP_P4_101993_37374235	NC_021166.1	Ca_kabuli_chr07	37374235	AA	CC	1946898983
SNP_P4_101995_37374257	NC_021166.1	Ca_kabuli_chr07	37374257	AA	GG	1946898985
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SNP_P4_101998_37381341	NC_021166.1	Ca_kabuli_chr07	37381341	GG	AA	1946898989
SNP_P4_101999_37381613	NC_021166.1	Ca_kabuli_chr07	37381613	CC	TT	1946898991
SNP_P4_102000_37381963	NC_021166.1	Ca_kabuli_chr07	37381963	GG	AA	1946898993
SNP_P4_102001_37417291	NC_021166.1	Ca_kabuli_chr07	37417291	AA	TT	1946898995
SNP_P4_102002_37417300	NC_021166.1	Ca_kabuli_chr07	37417300	TT	AA	1946898997
SNP_P4_102003_37417556	NC_021166.1	Ca_kabuli_chr07	37417556	TT	GG	1946898999
SNP_P4_102004_37418287	NC_021166.1	Ca_kabuli_chr07	37418287	AA	TT	1946899001
SNP_P4_102005_37418302	NC_021166.1	Ca_kabuli_chr07	37418302	AA	CC	1946899003
SNP_P4_102006_37427294	NC_021166.1	Ca_kabuli_chr07	37427294	TT	CC	1946899005
SNP_P4_102007_37427583	NC_021166.1	Ca_kabuli_chr07	37427583	AA	CC	1946899007
SNP_P4_102008_37427608	NC_021166.1	Ca_kabuli_chr07	37427608	TT	CC	1946899009
SNP_P4_102009_37427847	NC_021166.1	Ca_kabuli_chr07	37427847	AA	CC	1946899011
SNP_P4_102010_37427897	NC_021166.1	Ca_kabuli_chr07	37427897	TT	AA	1946899013
SNP_P4_102011_37427905	NC_021166.1	Ca_kabuli_chr07	37427905	CC	TT	1946899014
SNP_P4_102012_37427908	NC_021166.1	Ca_kabuli_chr07	37427908	TT	CC	1946899016
SNP_P4_102013_37437486	NC_021166.1	Ca_kabuli_chr07	37437486	TT	AA	1946899018

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_102015_37437579	NC_021166.1	Ca_kabuli_chr07	37437579	CC	AA	1946899023
SNP_P4_102016_37437580	NC_021166.1	Ca_kabuli_chr07	37437580	GG	TT	1946899025
SNP_P4_102017_37437646	NC_021166.1	Ca_kabuli_chr07	37437646	CC	TT	1946899027
SNP_P4_102018_37441012	NC_021166.1	Ca_kabuli_chr07	37441012	CC	TT	1946899029
SNP_P4_102019_37453623	NC_021166.1	Ca_kabuli_chr07	37453623	TT	GG	1946899031
SNP_P4_102020_37457874	NC_021166.1	Ca_kabuli_chr07	37457874	AA	TT	1946899033
SNP_P4_102021_37469854	NC_021166.1	Ca_kabuli_chr07	37469854	TT	CC	1946899035
SNP_P4_102022_37478031	NC_021166.1	Ca_kabuli_chr07	37478031	GG	TT	1946899037
SNP_P4_102023_37478250	NC_021166.1	Ca_kabuli_chr07	37478250	GG	TT	1946899039
SNP_P4_102024_37479291	NC_021166.1	Ca_kabuli_chr07	37479291	TT	CC	1946899041
SNP_P4_102025_37479294	NC_021166.1	Ca_kabuli_chr07	37479294	GG	AA	1946899043
SNP_P4_102026_37479300	NC_021166.1	Ca_kabuli_chr07	37479300	GG	AA	1946899045
SNP_P4_102027_37479683	NC_021166.1	Ca_kabuli_chr07	37479683	AA	GG	1946899047
SNP_P4_102028_37479690	NC_021166.1	Ca_kabuli_chr07	37479690	TT	CC	1946899049
SNP_P4_102029_37479738	NC_021166.1	Ca_kabuli_chr07	37479738	AA	TT	1946899051
SNP_P4_102030_37479760	NC_021166.1	Ca_kabuli_chr07	37479760	CC	TT	1946899053
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SNP_P4_102032_37484509	NC_021166.1	Ca_kabuli_chr07	37484509	TT	CC	1946899057
SNP_P4_102033_37488898	NC_021166.1	Ca_kabuli_chr07	37488898	CC	TT	1946899058
SNP_P4_102034_37490738	NC_021166.1	Ca_kabuli_chr07	37490738	GG	AA	1946899060
SNP_P4_102036_37491334	NC_021166.1	Ca_kabuli_chr07	37491334	GG	AA	1946899062
SNP_P4_102037_37493397	NC_021166.1	Ca_kabuli_chr07	37493397	GG	AA	1946899064
SNP_P4_102038_37493921	NC_021166.1	Ca_kabuli_chr07	37493921	TT	CC	1946899066
SNP_P4_102039_37494163	NC_021166.1	Ca_kabuli_chr07	37494163	AA	TT	1946899068
SNP_P4_102040_37495279	NC_021166.1	Ca_kabuli_chr07	37495279	GG	AA	1946899070
SNP_P4_102041_37495344	NC_021166.1	Ca_kabuli_chr07	37495344	GG	AA	1946899072
SNP_P4_102042_37496505	NC_021166.1	Ca_kabuli_chr07	37496505	CC	TT	1946899074
SNP_P4_102043_37496656	NC_021166.1	Ca_kabuli_chr07	37496656	CC	TT	1946899076
SNP_P4_102044_37496696	NC_021166.1	Ca_kabuli_chr07	37496696	AA	GG	1946899078
SNP_P4_102045_37496697	NC_021166.1	Ca_kabuli_chr07	37496697	CC	TT	1946899080
SNP_P4_102046_37496908	NC_021166.1	Ca_kabuli_chr07	37496908	AA	CC	1946899082
SNP_P4_102047_37497044	NC_021166.1	Ca_kabuli_chr07	37497044	AA	GG	1946899084
SNP_P4_102048_37497933	NC_021166.1	Ca_kabuli_chr07	37497933	GG	AA	1946899086
SNP_P4_102049_37498072	NC_021166.1	Ca_kabuli_chr07	37498072	GG	AA	1946899088
SNP_P4_102050_37498084	NC_021166.1	Ca_kabuli_chr07	37498084	TT	AA	1946899090
SNP_P4_102051_37498085	NC_021166.1	Ca_kabuli_chr07	37498085	TT	CC	1946899092
SNP_P4_102052_37498086	NC_021166.1	Ca_kabuli_chr07	37498086	GG	TT	1946899094
SNP_P4_102053_37498100	NC_021166.1	Ca_kabuli_chr07	37498100	CC	TT	1946899096
SNP_P4_102054_37498357	NC_021166.1	Ca_kabuli_chr07	37498357	GG	AA	1946899098
SNP_P4_102055_37498373	NC_021166.1	Ca_kabuli_chr07	37498373	GG	AA	1946899100
SNP_P4_102056_37502433	NC_021166.1	Ca_kabuli_chr07	37502433	CC	AA	1946899103

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_102058_37502862	NC_021166.1	Ca_kabuli_chr07	37502862	GG	AA	1946899107
SNP_P4_102059_37504295	NC_021166.1	Ca_kabuli_chr07	37504295	CC	AA	1946899109
SNP_P4_102060_37504410	NC_021166.1	Ca_kabuli_chr07	37504410	GG	AA	1946899111
SNP_P4_102061_37506801	NC_021166.1	Ca_kabuli_chr07	37506801	GG	AA	1946899113
SNP_P4_102062_37507196	NC_021166.1	Ca_kabuli_chr07	37507196	AA	TT	1946899115
SNP_P4_102063_37510567	NC_021166.1	Ca_kabuli_chr07	37510567	GG	AA	1946899117
SNP_P4_102064_37513443	NC_021166.1	Ca_kabuli_chr07	37513443	AA	CC	1946899119
SNP_P4_102065_37513557	NC_021166.1	Ca_kabuli_chr07	37513557	CC	TT	1946899121
SNP_P4_102066_37513730	NC_021166.1	Ca_kabuli_chr07	37513730	AA	CC	1946899123
SNP_P4_102067_37516385	NC_021166.1	Ca_kabuli_chr07	37516385	AA	GG	1946899125
SNP_P4_102068_37516488	NC_021166.1	Ca_kabuli_chr07	37516488	CC	AA	1946899127
SNP_P4_102069_37517608	NC_021166.1	Ca_kabuli_chr07	37517608	AA	TT	1946899130
SNP_P4_102070_37529840	NC_021166.1	Ca_kabuli_chr07	37529840	GG	AA	1946899132
SNP_P4_102071_37530372	NC_021166.1	Ca_kabuli_chr07	37530372	TT	CC	1946899134
SNP_P4_102073_37539386	NC_021166.1	Ca_kabuli_chr07	37539386	GG	AA	1946899136
SNP_P4_102074_37540026	NC_021166.1	Ca_kabuli_chr07	37540026	GG	AA	1946899139
SNP_P4_102075_37540139	NC_021166.1	Ca_kabuli_chr07	37540139	AA	GG	1946899141
SNP_P4_102076_37541642	NC_021166.1	Ca_kabuli_chr07	37541642	TT	AA	1946899143
SNP_P4_102077_37543131	NC_021166.1	Ca_kabuli_chr07	37543131	CC	TT	1946899145
SNP_P4_102079_37544607	NC_021166.1	Ca_kabuli_chr07	37544607	TT	CC	1946899147
SNP_P4_102080_37546515	NC_021166.1	Ca_kabuli_chr07	37546515	TT	CC	1946899149
SNP_P4_102081_37547201	NC_021166.1	Ca_kabuli_chr07	37547201	AA	TT	1946899151
SNP_P4_102082_37548127	NC_021166.1	Ca_kabuli_chr07	37548127	TT	GG	1946899153
SNP_P4_102084_37550592	NC_021166.1	Ca_kabuli_chr07	37550592	TT	CC	1946899155
SNP_P4_102085_37551576	NC_021166.1	Ca_kabuli_chr07	37551576	GG	AA	1946899157
SNP_P4_102086_37551641	NC_021166.1	Ca_kabuli_chr07	37551641	CC	TT	1946899159
SNP_P4_102087_37551711	NC_021166.1	Ca_kabuli_chr07	37551711	GG	AA	1946899161
SNP_P4_102088_37556631	NC_021166.1	Ca_kabuli_chr07	37556631	GG	AA	1946899164
SNP_P4_102089_37558298	NC_021166.1	Ca_kabuli_chr07	37558298	AA	GG	1946899166
SNP_P4_102090_37559062	NC_021166.1	Ca_kabuli_chr07	37559062	TT	CC	1946899168
SNP_P4_102091_37562927	NC_021166.1	Ca_kabuli_chr07	37562927	CC	TT	1946899170
SNP_P4_102092_37562941	NC_021166.1	Ca_kabuli_chr07	37562941	CC	TT	1946899172
SNP_P4_102093_37564511	NC_021166.1	Ca_kabuli_chr07	37564511	AA	GG	1946899174
SNP_P4_102094_37564878	NC_021166.1	Ca_kabuli_chr07	37564878	GG	TT	1946899176
SNP_P4_102095_37565068	NC_021166.1	Ca_kabuli_chr07	37565068	AA	GG	1946899178
SNP_P4_102096_37565461	NC_021166.1	Ca_kabuli_chr07	37565461	GG	AA	1946899180
SNP_P4_102097_37565534	NC_021166.1	Ca_kabuli_chr07	37565534	GG	AA	1946899182
SNP_P4_102098_37567754	NC_021166.1	Ca_kabuli_chr07	37567754	GG	AA	1946899184
SNP_P4_102101_37568113	NC_021166.1	Ca_kabuli_chr07	37568113	TT	CC	1946899186
SNP_P4_102102_37568745	NC_021166.1	Ca_kabuli_chr07	37568745	TT	CC	1946899188
SNP_P4_102103_37568766	NC_021166.1	Ca_kabuli_chr07	37568766	GG	AA	1946899190

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_102105_37570631	NC_021166.1	Ca_kabuli_chr07	37570631	CC	TT	1946899194
SNP_P4_102106_37572720	NC_021166.1	Ca_kabuli_chr07	37572720	CC	TT	1946899196
SNP_P4_102107_37573888	NC_021166.1	Ca_kabuli_chr07	37573888	GG	AA	1946899198
SNP_P4_102108_37573900	NC_021166.1	Ca_kabuli_chr07	37573900	TT	CC	1946899199
SNP_P4_102109_37574009	NC_021166.1	Ca_kabuli_chr07	37574009	GG	AA	1946899201
SNP_P4_102110_37574387	NC_021166.1	Ca_kabuli_chr07	37574387	AA	GG	1946899203
SNP_P4_102111_37574389	NC_021166.1	Ca_kabuli_chr07	37574389	GG	AA	1946899205
SNP_P4_102112_37576712	NC_021166.1	Ca_kabuli_chr07	37576712	GG	AA	1946899207
SNP_P4_102113_37576713	NC_021166.1	Ca_kabuli_chr07	37576713	AA	GG	1946899209
SNP_P4_102114_37576883	NC_021166.1	Ca_kabuli_chr07	37576883	GG	AA	1946899211
SNP_P4_102115_37577008	NC_021166.1	Ca_kabuli_chr07	37577008	CC	TT	1946899213
SNP_P4_102116_37577015	NC_021166.1	Ca_kabuli_chr07	37577015	TT	CC	1946899215
SNP_P4_102117_37583265	NC_021166.1	Ca_kabuli_chr07	37583265	TT	AA	1946899217
SNP_P4_102118_37583282	NC_021166.1	Ca_kabuli_chr07	37583282	AA	GG	1946899219
SNP_P4_102120_37586009	NC_021166.1	Ca_kabuli_chr07	37586009	GG	AA	1946899221
SNP_P4_102122_37589034	NC_021166.1	Ca_kabuli_chr07	37589034	CC	TT	1946899223
SNP_P4_102123_37589213	NC_021166.1	Ca_kabuli_chr07	37589213	AA	CC	1946899225
SNP_P4_102124_37589381	NC_021166.1	Ca_kabuli_chr07	37589381	TT	CC	1946899227
SNP_P4_102125_37589396	NC_021166.1	Ca_kabuli_chr07	37589396	TT	CC	1946899229
SNP_P4_102127_37593749	NC_021166.1	Ca_kabuli_chr07	37593749	AA	GG	1946899231
SNP_P4_102128_37593750	NC_021166.1	Ca_kabuli_chr07	37593750	CC	TT	1946899233
SNP_P4_102130_37594896	NC_021166.1	Ca_kabuli_chr07	37594896	TT	GG	1946899235
SNP_P4_102131_37594901	NC_021166.1	Ca_kabuli_chr07	37594901	GG	AA	1946899236
SNP_P4_102132_37595376	NC_021166.1	Ca_kabuli_chr07	37595376	GG	TT	1946899238
SNP_P4_102134_37595787	NC_021166.1	Ca_kabuli_chr07	37595787	AA	TT	1946899240
SNP_P4_102135_37614570	NC_021166.1	Ca_kabuli_chr07	37614570	AA	GG	1946899242
SNP_P4_102136_37614899	NC_021166.1	Ca_kabuli_chr07	37614899	GG	CC	1946899244
SNP_P4_102137_37615154	NC_021166.1	Ca_kabuli_chr07	37615154	AA	CC	1946899246
SNP_P4_102138_37615200	NC_021166.1	Ca_kabuli_chr07	37615200	TT	CC	1946899248
SNP_P4_102139_37615336	NC_021166.1	Ca_kabuli_chr07	37615336	AA	GG	1946899250
SNP_P4_102140_37615573	NC_021166.1	Ca_kabuli_chr07	37615573	GG	AA	1946899252
SNP_P4_102141_37616093	NC_021166.1	Ca_kabuli_chr07	37616093	TT	CC	1946899254
SNP_P4_102143_37618247	NC_021166.1	Ca_kabuli_chr07	37618247	TT	CC	1946899256
SNP_P4_102145_37620319	NC_021166.1	Ca_kabuli_chr07	37620319	AA	GG	1946899258
SNP_P4_102146_37622066	NC_021166.1	Ca_kabuli_chr07	37622066	CC	TT	1946899260
SNP_P4_102147_37622097	NC_021166.1	Ca_kabuli_chr07	37622097	TT	CC	1946899262
SNP_P4_102148_37622163	NC_021166.1	Ca_kabuli_chr07	37622163	TT	CC	1946899264
SNP_P4_102149_37622207	NC_021166.1	Ca_kabuli_chr07	37622207	CC	TT	1946899266
SNP_P4_102151_37622226	NC_021166.1	Ca_kabuli_chr07	37622226	AA	GG	1946899268
SNP_P4_102152_37622247	NC_021166.1	Ca_kabuli_chr07	37622247	AA	TT	1946899270
SNP_P4_102153_37622256	NC_021166.1	Ca_kabuli_chr07	37622256	AA	GG	1946899272

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_102155_37622438	NC_021166.1	Ca_kabuli_chr07	37622438	TT	CC	1946899275
SNP_P4_102156_37622482	NC_021166.1	Ca_kabuli_chr07	37622482	TT	CC	1946899277
SNP_P4_102157_37622513	NC_021166.1	Ca_kabuli_chr07	37622513	CC	TT	1946899279
SNP_P4_102158_37622563	NC_021166.1	Ca_kabuli_chr07	37622563	TT	CC	1946899281
SNP_P4_102159_37622572	NC_021166.1	Ca_kabuli_chr07	37622572	GG	AA	1946899283
SNP_P4_102160_37622582	NC_021166.1	Ca_kabuli_chr07	37622582	GG	AA	1946899285
SNP_P4_102161_37622618	NC_021166.1	Ca_kabuli_chr07	37622618	TT	CC	1946899287
SNP_P4_102162_37622658	NC_021166.1	Ca_kabuli_chr07	37622658	TT	CC	1946899289
SNP_P4_102163_37622660	NC_021166.1	Ca_kabuli_chr07	37622660	GG	AA	1946899291
SNP_P4_102164_37622661	NC_021166.1	Ca_kabuli_chr07	37622661	CC	TT	1946899293
SNP_P4_102165_37622705	NC_021166.1	Ca_kabuli_chr07	37622705	TT	CC	1946899295
SNP_P4_102166_37622722	NC_021166.1	Ca_kabuli_chr07	37622722	GG	CC	1946899297
SNP_P4_102167_37622737	NC_021166.1	Ca_kabuli_chr07	37622737	AA	GG	1946899299
SNP_P4_102168_37622860	NC_021166.1	Ca_kabuli_chr07	37622860	AA	TT	1946899302
SNP_P4_102169_37622906	NC_021166.1	Ca_kabuli_chr07	37622906	TT	GG	1946899304
SNP_P4_102170_37623004	NC_021166.1	Ca_kabuli_chr07	37623004	AA	GG	1946899306
SNP_P4_102171_37623108	NC_021166.1	Ca_kabuli_chr07	37623108	CC	TT	1946899308
SNP_P4_102172_37626260	NC_021166.1	Ca_kabuli_chr07	37626260	AA	GG	1946899310
SNP_P4_102173_37626275	NC_021166.1	Ca_kabuli_chr07	37626275	GG	AA	1946899312
SNP_P4_102174_37626287	NC_021166.1	Ca_kabuli_chr07	37626287	TT	CC	1946899314
SNP_P4_102175_37626455	NC_021166.1	Ca_kabuli_chr07	37626455	AA	GG	1946899316
SNP_P4_102176_37626518	NC_021166.1	Ca_kabuli_chr07	37626518	TT	CC	1946899318
SNP_P4_102177_37626534	NC_021166.1	Ca_kabuli_chr07	37626534	TT	CC	1946899320
SNP_P4_102178_37626538	NC_021166.1	Ca_kabuli_chr07	37626538	CC	TT	1946899322
SNP_P4_102179_37626601	NC_021166.1	Ca_kabuli_chr07	37626601	TT	CC	1946899324
SNP_P4_102180_37626628	NC_021166.1	Ca_kabuli_chr07	37626628	GG	AA	1946899326
SNP_P4_102181_37626631	NC_021166.1	Ca_kabuli_chr07	37626631	GG	AA	1946899328
SNP_P4_102182_37626660	NC_021166.1	Ca_kabuli_chr07	37626660	GG	TT	1946899330
SNP_P4_102183_37626666	NC_021166.1	Ca_kabuli_chr07	37626666	CC	TT	1946899332
SNP_P4_102184_37631062	NC_021166.1	Ca_kabuli_chr07	37631062	CC	TT	1946899334
SNP_P4_102185_37631858	NC_021166.1	Ca_kabuli_chr07	37631858	AA	CC	1946899335
SNP_P4_102186_37638612	NC_021166.1	Ca_kabuli_chr07	37638612	AA	TT	1946899337
SNP_P4_102187_37638630	NC_021166.1	Ca_kabuli_chr07	37638630	TT	CC	1946899339
SNP_P4_102188_37640279	NC_021166.1	Ca_kabuli_chr07	37640279	AA	GG	1946899341
SNP_P4_102189_37640694	NC_021166.1	Ca_kabuli_chr07	37640694	GG	CC	1946899343
SNP_P4_102190_37641080	NC_021166.1	Ca_kabuli_chr07	37641080	TT	GG	1946899345
SNP_P4_102191_37646161	NC_021166.1	Ca_kabuli_chr07	37646161	TT	CC	1946899347
SNP_P4_102192_37648094	NC_021166.1	Ca_kabuli_chr07	37648094	GG	AA	1946899349
SNP_P4_102195_37665378	NC_021166.1	Ca_kabuli_chr07	37665378	CC	AA	1946899351
SNP_P4_102196_37667166	NC_021166.1	Ca_kabuli_chr07	37667166	AA	GG	1946899353
SNP_P4_102197_37667366	NC_021166.1	Ca_kabuli_chr07	37667366	GG	AA	1946899355

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_102199_37667370	NC_021166.1	Ca_kabuli_chr07	37667370	AA	GG	1946899359
SNP_P4_102200_37698456	NC_021166.1	Ca_kabuli_chr07	37698456	AA	TT	1946899361
SNP_P4_102201_37698471	NC_021166.1	Ca_kabuli_chr07	37698471	GG	AA	1946899363
SNP_P4_102202_37706049	NC_021166.1	Ca_kabuli_chr07	37706049	TT	CC	1946899365
SNP_P4_102203_37707765	NC_021166.1	Ca_kabuli_chr07	37707765	TT	CC	1946899367
SNP_P4_102204_37707944	NC_021166.1	Ca_kabuli_chr07	37707944	CC	TT	1946899369
SNP_P4_102206_37711495	NC_021166.1	Ca_kabuli_chr07	37711495	CC	GG	1946899371
SNP_P4_102207_37711550	NC_021166.1	Ca_kabuli_chr07	37711550	TT	GG	1946899373
SNP_P4_102208_37711595	NC_021166.1	Ca_kabuli_chr07	37711595	CC	TT	1946899375
SNP_P4_102209_37711596	NC_021166.1	Ca_kabuli_chr07	37711596	GG	AA	1946899377
SNP_P4_102210_37711721	NC_021166.1	Ca_kabuli_chr07	37711721	CC	AA	1946899379
SNP_P4_102211_37711767	NC_021166.1	Ca_kabuli_chr07	37711767	GG	AA	1946899381
SNP_P4_102212_37711785	NC_021166.1	Ca_kabuli_chr07	37711785	TT	AA	1946899383
SNP_P4_102214_37724206	NC_021166.1	Ca_kabuli_chr07	37724206	GG	CC	1946899385
SNP_P4_102215_37733164	NC_021166.1	Ca_kabuli_chr07	37733164	GG	TT	1946899387
SNP_P4_102217_37797705	NC_021166.1	Ca_kabuli_chr07	37797705	CC	TT	1946899389
SNP_P4_102218_37815009	NC_021166.1	Ca_kabuli_chr07	37815009	TT	CC	1946899391
SNP_P4_102219_37818898	NC_021166.1	Ca_kabuli_chr07	37818898	GG	TT	1946899393
SNP_P4_102220_37819473	NC_021166.1	Ca_kabuli_chr07	37819473	CC	TT	1946899395
SNP_P4_102221_37824275	NC_021166.1	Ca_kabuli_chr07	37824275	TT	CC	1946899397
SNP_P4_102222_37824588	NC_021166.1	Ca_kabuli_chr07	37824588	GG	AA	1946899399
SNP_P4_102223_37824612	NC_021166.1	Ca_kabuli_chr07	37824612	TT	AA	1946899401
SNP_P4_102224_37824632	NC_021166.1	Ca_kabuli_chr07	37824632	AA	GG	1946899403
SNP_P4_102225_37824915	NC_021166.1	Ca_kabuli_chr07	37824915	AA	GG	1946899405
SNP_P4_102226_37827106	NC_021166.1	Ca_kabuli_chr07	37827106	AA	GG	1946899407
SNP_P4_102227_37827138	NC_021166.1	Ca_kabuli_chr07	37827138	GG	AA	1946899409
SNP_P4_102228_37827240	NC_021166.1	Ca_kabuli_chr07	37827240	TT	CC	1946899411
SNP_P4_102229_37827261	NC_021166.1	Ca_kabuli_chr07	37827261	CC	AA	1946899413
SNP_P4_102230_37841939	NC_021166.1	Ca_kabuli_chr07	37841939	TT	CC	1946899415
SNP_P4_102231_37843092	NC_021166.1	Ca_kabuli_chr07	37843092	AA	GG	1946899417
SNP_P4_102232_37849767	NC_021166.1	Ca_kabuli_chr07	37849767	AA	CC	1946899419
SNP_P4_102233_37849812	NC_021166.1	Ca_kabuli_chr07	37849812	AA	GG	1946899421
SNP_P4_102234_37849841	NC_021166.1	Ca_kabuli_chr07	37849841	AA	CC	1946899423
SNP_P4_102235_37849909	NC_021166.1	Ca_kabuli_chr07	37849909	TT	AA	1946899425
SNP_P4_102236_37849951	NC_021166.1	Ca_kabuli_chr07	37849951	AA	GG	1946899427
SNP_P4_102237_37850116	NC_021166.1	Ca_kabuli_chr07	37850116	TT	GG	1946899429
SNP_P4_102238_37850276	NC_021166.1	Ca_kabuli_chr07	37850276	AA	GG	1946899431
SNP_P4_102239_37850290	NC_021166.1	Ca_kabuli_chr07	37850290	TT	AA	1946899433
SNP_P4_102240_37856907	NC_021166.1	Ca_kabuli_chr07	37856907	GG	TT	1946899435
SNP_P4_102241_37856920	NC_021166.1	Ca_kabuli_chr07	37856920	AA	GG	1946899437
SNP_P4_102242_37856932	NC_021166.1	Ca_kabuli_chr07	37856932	GG	TT	1946899439

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_102244_37857200	NC_021166.1	Ca_kabuli_chr07	37857200	TT	GG	1946899443
SNP_P4_102245_37857210	NC_021166.1	Ca_kabuli_chr07	37857210	TT	CC	1946899445
SNP_P4_102246_37860553	NC_021166.1	Ca_kabuli_chr07	37860553	AA	CC	1946899447
SNP_P4_102247_37860782	NC_021166.1	Ca_kabuli_chr07	37860782	AA	CC	1946899449
SNP_P4_102249_37879935	NC_021166.1	Ca_kabuli_chr07	37879935	AA	GG	1946899451
SNP_P4_102250_37879936	NC_021166.1	Ca_kabuli_chr07	37879936	TT	CC	1946899453
SNP_P4_102251_37879943	NC_021166.1	Ca_kabuli_chr07	37879943	AA	GG	1946899455
SNP_P4_102252_37893883	NC_021166.1	Ca_kabuli_chr07	37893883	GG	AA	1946899457
SNP_P4_102253_37893897	NC_021166.1	Ca_kabuli_chr07	37893897	GG	CC	1946899459
SNP_P4_102254_37893925	NC_021166.1	Ca_kabuli_chr07	37893925	AA	GG	1946899461
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SNP_P4_102256_37894654	NC_021166.1	Ca_kabuli_chr07	37894654	TT	AA	1946899465
SNP_P4_102257_37904419	NC_021166.1	Ca_kabuli_chr07	37904419	GG	TT	1946899467
SNP_P4_102258_37904694	NC_021166.1	Ca_kabuli_chr07	37904694	CC	GG	1946899469
SNP_P4_102259_37904906	NC_021166.1	Ca_kabuli_chr07	37904906	TT	GG	1946899471
SNP_P4_102260_37904919	NC_021166.1	Ca_kabuli_chr07	37904919	CC	TT	1946899473
SNP_P4_102261_37914279	NC_021166.1	Ca_kabuli_chr07	37914279	GG	TT	1946899474
SNP_P4_102262_37915240	NC_021166.1	Ca_kabuli_chr07	37915240	TT	CC	1946899476
SNP_P4_102263_37915401	NC_021166.1	Ca_kabuli_chr07	37915401	TT	GG	1946899478
SNP_P4_102264_37927687	NC_021166.1	Ca_kabuli_chr07	37927687	CC	TT	1946899480
SNP_P4_102265_37948156	NC_021166.1	Ca_kabuli_chr07	37948156	TT	GG	1946899482
SNP_P4_102267_37992708	NC_021166.1	Ca_kabuli_chr07	37992708	AA	CC	1946899484
SNP_P4_102268_37992709	NC_021166.1	Ca_kabuli_chr07	37992709	GG	AA	1946899486
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SNP_P4_102271_37992728	NC_021166.1	Ca_kabuli_chr07	37992728	TT	AA	1946899491
SNP_P4_102272_37992765	NC_021166.1	Ca_kabuli_chr07	37992765	TT	CC	1946899493
SNP_P4_102273_37992823	NC_021166.1	Ca_kabuli_chr07	37992823	CC	TT	1946899495
SNP_P4_102274_37992834	NC_021166.1	Ca_kabuli_chr07	37992834	TT	AA	1946899497
SNP_P4_102275_37993092	NC_021166.1	Ca_kabuli_chr07	37993092	GG	AA	1946899499
SNP_P4_102276_37993146	NC_021166.1	Ca_kabuli_chr07	37993146	AA	GG	1946899501
SNP_P4_102277_37993207	NC_021166.1	Ca_kabuli_chr07	37993207	CC	TT	1946899503
SNP_P4_102278_37993288	NC_021166.1	Ca_kabuli_chr07	37993288	TT	CC	1946899505
SNP_P4_102279_37993360	NC_021166.1	Ca_kabuli_chr07	37993360	AA	TT	1946899507
SNP_P4_102280_37999525	NC_021166.1	Ca_kabuli_chr07	37999525	TT	CC	1946899509
SNP_P4_102281_38014858	NC_021166.1	Ca_kabuli_chr07	38014858	CC	TT	1946899511
SNP_P4_102282_38024553	NC_021166.1	Ca_kabuli_chr07	38024553	CC	TT	1946899513
SNP_P4_102283_38057795	NC_021166.1	Ca_kabuli_chr07	38057795	AA	GG	1946899515
SNP_P4_102285_38069092	NC_021166.1	Ca_kabuli_chr07	38069092	AA	GG	1946899517
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SNP_P4_102287_38072495	NC_021166.1	Ca_kabuli_chr07	38072495	TT	AA	1946899521

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_102289_38081052	NC_021166.1	Ca_kabuli_chr07	38081052	CC	AA	1946899525
SNP_P4_102290_38089857	NC_021166.1	Ca_kabuli_chr07	38089857	GG	AA	1946899527
SNP_P4_102291_38089890	NC_021166.1	Ca_kabuli_chr07	38089890	CC	TT	1946899529
SNP_P4_102292_38090196	NC_021166.1	Ca_kabuli_chr07	38090196	AA	GG	1946899530
SNP_P4_102294_38107100	NC_021166.1	Ca_kabuli_chr07	38107100	TT	GG	1946899532
SNP_P4_102295_38107142	NC_021166.1	Ca_kabuli_chr07	38107142	AA	TT	1946899534
SNP_P4_102296_38107150	NC_021166.1	Ca_kabuli_chr07	38107150	GG	TT	1946899536
SNP_P4_102297_38107352	NC_021166.1	Ca_kabuli_chr07	38107352	GG	AA	1946899538
SNP_P4_102298_38107395	NC_021166.1	Ca_kabuli_chr07	38107395	GG	AA	1946899540
SNP_P4_102299_38107432	NC_021166.1	Ca_kabuli_chr07	38107432	TT	AA	1946899542
SNP_P4_102300_38107449	NC_021166.1	Ca_kabuli_chr07	38107449	AA	TT	1946899544
SNP_P4_102301_38107468	NC_021166.1	Ca_kabuli_chr07	38107468	CC	TT	1946899546
SNP_P4_102302_38107470	NC_021166.1	Ca_kabuli_chr07	38107470	AA	GG	1946899548
SNP_P4_102303_38115860	NC_021166.1	Ca_kabuli_chr07	38115860	TT	AA	1946899549
SNP_P4_102305_38143361	NC_021166.1	Ca_kabuli_chr07	38143361	GG	AA	1946899551
SNP_P4_102307_38159469	NC_021166.1	Ca_kabuli_chr07	38159469	GG	AA	1946899553
SNP_P4_102308_38165908	NC_021166.1	Ca_kabuli_chr07	38165908	GG	TT	1946899555
SNP_P4_102309_38165923	NC_021166.1	Ca_kabuli_chr07	38165923	GG	AA	1946899557
SNP_P4_102310_38166241	NC_021166.1	Ca_kabuli_chr07	38166241	TT	CC	1946899559
SNP_P4_102311_38172105	NC_021166.1	Ca_kabuli_chr07	38172105	AA	GG	1946899561
SNP_P4_102312_38172108	NC_021166.1	Ca_kabuli_chr07	38172108	TT	CC	1946899563
SNP_P4_102313_38182881	NC_021166.1	Ca_kabuli_chr07	38182881	TT	CC	1946899565
SNP_P4_102314_38193606	NC_021166.1	Ca_kabuli_chr07	38193606	GG	TT	1946899567
SNP_P4_102315_38227420	NC_021166.1	Ca_kabuli_chr07	38227420	CC	TT	1946899569
SNP_P4_102316_38232676	NC_021166.1	Ca_kabuli_chr07	38232676	AA	GG	1946899571
SNP_P4_102317_38232706	NC_021166.1	Ca_kabuli_chr07	38232706	AA	GG	1946899572
SNP_P4_102318_38232719	NC_021166.1	Ca_kabuli_chr07	38232719	GG	CC	1946899574
SNP_P4_102319_38232733	NC_021166.1	Ca_kabuli_chr07	38232733	AA	CC	1946899576
SNP_P4_102320_38232866	NC_021166.1	Ca_kabuli_chr07	38232866	AA	GG	1946899578
SNP_P4_102321_38233008	NC_021166.1	Ca_kabuli_chr07	38233008	AA	GG	1946899580
SNP_P4_102322_38233014	NC_021166.1	Ca_kabuli_chr07	38233014	TT	GG	1946899582
SNP_P4_102323_38233093	NC_021166.1	Ca_kabuli_chr07	38233093	AA	GG	1946899584
SNP_P4_102324_38233130	NC_021166.1	Ca_kabuli_chr07	38233130	GG	AA	1946899586
SNP_P4_102325_38233363	NC_021166.1	Ca_kabuli_chr07	38233363	AA	GG	1946899588
SNP_P4_102326_38252151	NC_021166.1	Ca_kabuli_chr07	38252151	TT	CC	1946899590
SNP_P4_102328_38258870	NC_021166.1	Ca_kabuli_chr07	38258870	CC	TT	1946899592
SNP_P4_102329_38264390	NC_021166.1	Ca_kabuli_chr07	38264390	GG	AA	1946899593
SNP_P4_102330_38270009	NC_021166.1	Ca_kabuli_chr07	38270009	CC	AA	1946899595
SNP_P4_102331_38288789	NC_021166.1	Ca_kabuli_chr07	38288789	AA	GG	1946899597
SNP_P4_102332_38296123	NC_021166.1	Ca_kabuli_chr07	38296123	TT	AA	1946899599
SNP_P4_102333_38296309	NC_021166.1	Ca_kabuli_chr07	38296309	CC	TT	1946899601

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_102335_38297988	NC_021166.1	Ca_kabuli_chr07	38297988	AA	GG	1946899605
SNP_P4_102336_38298159	NC_021166.1	Ca_kabuli_chr07	38298159	AA	GG	1946899607
SNP_P4_102337_38298172	NC_021166.1	Ca_kabuli_chr07	38298172	CC	TT	1946899609
SNP_P4_102338_38298303	NC_021166.1	Ca_kabuli_chr07	38298303	TT	CC	1946899611
SNP_P4_102339_38298587	NC_021166.1	Ca_kabuli_chr07	38298587	CC	TT	1946899613
SNP_P4_102340_38298588	NC_021166.1	Ca_kabuli_chr07	38298588	AA	TT	1946899615
SNP_P4_102341_38298589	NC_021166.1	Ca_kabuli_chr07	38298589	AA	CC	1946899617
SNP_P4_102342_38298591	NC_021166.1	Ca_kabuli_chr07	38298591	CC	TT	1946899618
SNP_P4_102343_38298604	NC_021166.1	Ca_kabuli_chr07	38298604	GG	AA	1946899620
SNP_P4_102344_38298618	NC_021166.1	Ca_kabuli_chr07	38298618	CC	TT	1946899622
SNP_P4_102345_38298624	NC_021166.1	Ca_kabuli_chr07	38298624	GG	AA	1946899624
SNP_P4_102346_38298769	NC_021166.1	Ca_kabuli_chr07	38298769	CC	AA	1946899626
SNP_P4_102348_38298784	NC_021166.1	Ca_kabuli_chr07	38298784	AA	GG	1946899628
SNP_P4_102349_38298790	NC_021166.1	Ca_kabuli_chr07	38298790	GG	AA	1946899630
SNP_P4_102350_38298793	NC_021166.1	Ca_kabuli_chr07	38298793	GG	AA	1946899632
SNP_P4_102351_38298799	NC_021166.1	Ca_kabuli_chr07	38298799	GG	AA	1946899634
SNP_P4_102352_38298829	NC_021166.1	Ca_kabuli_chr07	38298829	AA	GG	1946899635
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SNP_P4_102355_38298917	NC_021166.1	Ca_kabuli_chr07	38298917	CC	TT	1946899641
SNP_P4_102356_38298919	NC_021166.1	Ca_kabuli_chr07	38298919	TT	AA	1946899643
SNP_P4_102357_38298931	NC_021166.1	Ca_kabuli_chr07	38298931	TT	AA	1946899645
SNP_P4_102358_38301716	NC_021166.1	Ca_kabuli_chr07	38301716	GG	AA	1946899647
SNP_P4_102359_38302039	NC_021166.1	Ca_kabuli_chr07	38302039	GG	AA	1946899649
SNP_P4_102360_38302088	NC_021166.1	Ca_kabuli_chr07	38302088	TT	CC	1946899651
SNP_P4_102362_38331823	NC_021166.1	Ca_kabuli_chr07	38331823	TT	AA	1946899653
SNP_P4_102364_38333652	NC_021166.1	Ca_kabuli_chr07	38333652	GG	AA	1946899655
SNP_P4_102365_38353930	NC_021166.1	Ca_kabuli_chr07	38353930	CC	TT	1946899657
SNP_P4_102366_38354491	NC_021166.1	Ca_kabuli_chr07	38354491	AA	TT	1946899658
SNP_P4_102367_38396549	NC_021166.1	Ca_kabuli_chr07	38396549	CC	TT	1946899660
SNP_P4_102368_38399208	NC_021166.1	Ca_kabuli_chr07	38399208	GG	CC	1946899662
SNP_P4_102369_38399233	NC_021166.1	Ca_kabuli_chr07	38399233	CC	TT	1946899664
SNP_P4_102370_38399584	NC_021166.1	Ca_kabuli_chr07	38399584	TT	GG	1946899666
SNP_P4_102371_38399858	NC_021166.1	Ca_kabuli_chr07	38399858	CC	TT	1946899668
SNP_P4_102372_38399875	NC_021166.1	Ca_kabuli_chr07	38399875	GG	AA	1946899670
SNP_P4_102373_38399879	NC_021166.1	Ca_kabuli_chr07	38399879	TT	CC	1946899672
SNP_P4_102375_38414820	NC_021166.1	Ca_kabuli_chr07	38414820	AA	GG	1946899674
SNP_P4_102376_38455325	NC_021166.1	Ca_kabuli_chr07	38455325	TT	GG	1946899676
SNP_P4_102377_38457014	NC_021166.1	Ca_kabuli_chr07	38457014	AA	GG	1946899678
SNP_P4_102378_38457021	NC_021166.1	Ca_kabuli_chr07	38457021	AA	GG	1946899680
SNP_P4_102379_38457051	NC_021166.1	Ca_kabuli_chr07	38457051	CC	GG	1946899682

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_102381_38460340	NC_021166.1	Ca_kabuli_chr07	38460340	CC	TT	1946899686
SNP_P4_102382_38462883	NC_021166.1	Ca_kabuli_chr07	38462883	GG	TT	1946899688
SNP_P4_102383_38505698	NC_021166.1	Ca_kabuli_chr07	38505698	GG	CC	1946899690
SNP_P4_102384_38510585	NC_021166.1	Ca_kabuli_chr07	38510585	AA	GG	1946899692
SNP_P4_102385_38514110	NC_021166.1	Ca_kabuli_chr07	38514110	AA	TT	1946899694
SNP_P4_102386_38514503	NC_021166.1	Ca_kabuli_chr07	38514503	TT	CC	1946899696
SNP_P4_102387_38572518	NC_021166.1	Ca_kabuli_chr07	38572518	CC	AA	1946899698
SNP_P4_102388_38578765	NC_021166.1	Ca_kabuli_chr07	38578765	AA	GG	1946899700
SNP_P4_102389_38579073	NC_021166.1	Ca_kabuli_chr07	38579073	AA	GG	1946899702
SNP_P4_102390_38613468	NC_021166.1	Ca_kabuli_chr07	38613468	AA	CC	1946899704
SNP_P4_102391_38623000	NC_021166.1	Ca_kabuli_chr07	38623000	AA	TT	1946899706
SNP_P4_102392_38623194	NC_021166.1	Ca_kabuli_chr07	38623194	GG	CC	1946899708
SNP_P4_102394_38626276	NC_021166.1	Ca_kabuli_chr07	38626276	TT	CC	1946899710
SNP_P4_102396_38645175	NC_021166.1	Ca_kabuli_chr07	38645175	CC	AA	1946899712
SNP_P4_102397_38646783	NC_021166.1	Ca_kabuli_chr07	38646783	TT	CC	1946899714
SNP_P4_102398_38646784	NC_021166.1	Ca_kabuli_chr07	38646784	CC	TT	1946899716
SNP_P4_102399_38646799	NC_021166.1	Ca_kabuli_chr07	38646799	CC	TT	1946899718
SNP_P4_102400_38647610	NC_021166.1	Ca_kabuli_chr07	38647610	GG	AA	1946899720
SNP_P4_102401_38665237	NC_021166.1	Ca_kabuli_chr07	38665237	GG	AA	1946899722
SNP_P4_102403_38672017	NC_021166.1	Ca_kabuli_chr07	38672017	TT	CC	1946899724
SNP_P4_102405_38677134	NC_021166.1	Ca_kabuli_chr07	38677134	TT	AA	1946899726
SNP_P4_102406_38677661	NC_021166.1	Ca_kabuli_chr07	38677661	AA	GG	1946899727
SNP_P4_102408_38718756	NC_021166.1	Ca_kabuli_chr07	38718756	CC	TT	1946899729
SNP_P4_102409_38724641	NC_021166.1	Ca_kabuli_chr07	38724641	GG	AA	1946899731
SNP_P4_102410_38738981	NC_021166.1	Ca_kabuli_chr07	38738981	AA	GG	1946899733
SNP_P4_102411_38739110	NC_021166.1	Ca_kabuli_chr07	38739110	AA	GG	1946899735
SNP_P4_102412_38739290	NC_021166.1	Ca_kabuli_chr07	38739290	TT	GG	1946899737
SNP_P4_102413_38739664	NC_021166.1	Ca_kabuli_chr07	38739664	CC	TT	1946899739
SNP_P4_102415_38756934	NC_021166.1	Ca_kabuli_chr07	38756934	GG	AA	1946899741
SNP_P4_102417_38778109	NC_021166.1	Ca_kabuli_chr07	38778109	GG	AA	1946899743
SNP_P4_102418_38779183	NC_021166.1	Ca_kabuli_chr07	38779183	TT	CC	1946899745
SNP_P4_102419_38792662	NC_021166.1	Ca_kabuli_chr07	38792662	AA	GG	1946899747
SNP_P4_102420_38792687	NC_021166.1	Ca_kabuli_chr07	38792687	AA	GG	1946899749
SNP_P4_102422_38809233	NC_021166.1	Ca_kabuli_chr07	38809233	AA	GG	1946899751
SNP_P4_102423_38810875	NC_021166.1	Ca_kabuli_chr07	38810875	CC	AA	1946899752
SNP_P4_102424_38826411	NC_021166.1	Ca_kabuli_chr07	38826411	TT	AA	1946899754
SNP_P4_102425_38827756	NC_021166.1	Ca_kabuli_chr07	38827756	GG	AA	1946899756
SNP_P4_102426_38836941	NC_021166.1	Ca_kabuli_chr07	38836941	GG	TT	1946899758
SNP_P4_102427_38861525	NC_021166.1	Ca_kabuli_chr07	38861525	CC	AA	1946899760
SNP_P4_102428_38861538	NC_021166.1	Ca_kabuli_chr07	38861538	TT	AA	1946899762
SNP_P4_102429_38861772	NC_021166.1	Ca_kabuli_chr07	38861772	AA	GG	1946899764

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_102431_38866181	NC_021166.1	Ca_kabuli_chr07	38866181	TT	AA	1946899768
SNP_P4_102432_38882652	NC_021166.1	Ca_kabuli_chr07	38882652	TT	CC	1946899770
SNP_P4_102433_38882671	NC_021166.1	Ca_kabuli_chr07	38882671	TT	GG	1946899772
SNP_P4_102434_38882672	NC_021166.1	Ca_kabuli_chr07	38882672	TT	AA	1946899774
SNP_P4_102435_38882678	NC_021166.1	Ca_kabuli_chr07	38882678	GG	AA	1946899775
SNP_P4_102436_38882767	NC_021166.1	Ca_kabuli_chr07	38882767	GG	AA	1946899777
SNP_P4_102437_38883008	NC_021166.1	Ca_kabuli_chr07	38883008	CC	TT	1946899779
SNP_P4_102438_38883029	NC_021166.1	Ca_kabuli_chr07	38883029	TT	CC	1946899781
SNP_P4_102439_38883078	NC_021166.1	Ca_kabuli_chr07	38883078	TT	CC	1946899783
SNP_P4_102440_38889420	NC_021166.1	Ca_kabuli_chr07	38889420	TT	CC	1946899785
SNP_P4_102441_38899259	NC_021166.1	Ca_kabuli_chr07	38899259	TT	CC	1946899787
SNP_P4_102442_38899663	NC_021166.1	Ca_kabuli_chr07	38899663	CC	TT	1946899789
SNP_P4_102443_38922032	NC_021166.1	Ca_kabuli_chr07	38922032	AA	GG	1946899791
SNP_P4_102444_38923756	NC_021166.1	Ca_kabuli_chr07	38923756	AA	GG	1946899793
SNP_P4_102445_38928700	NC_021166.1	Ca_kabuli_chr07	38928700	CC	GG	1946899795
SNP_P4_102446_38931034	NC_021166.1	Ca_kabuli_chr07	38931034	TT	CC	1946899797
SNP_P4_102447_38932817	NC_021166.1	Ca_kabuli_chr07	38932817	GG	AA	1946899798
SNP_P4_102449_38952909	NC_021166.1	Ca_kabuli_chr07	38952909	GG	TT	1946899800
SNP_P4_102450_38957680	NC_021166.1	Ca_kabuli_chr07	38957680	GG	TT	1946899802
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SNP_P4_102452_38983500	NC_021166.1	Ca_kabuli_chr07	38983500	CC	TT	1946899806
SNP_P4_102453_38983549	NC_021166.1	Ca_kabuli_chr07	38983549	AA	GG	1946899808
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SNP_P4_102458_38991261	NC_021166.1	Ca_kabuli_chr07	38991261	GG	AA	1946899817
SNP_P4_102459_38991275	NC_021166.1	Ca_kabuli_chr07	38991275	CC	TT	1946899819
SNP_P4_102461_38991604	NC_021166.1	Ca_kabuli_chr07	38991604	GG	AA	1946899821
SNP_P4_102462_38993341	NC_021166.1	Ca_kabuli_chr07	38993341	CC	AA	1946899823
SNP_P4_102463_38993476	NC_021166.1	Ca_kabuli_chr07	38993476	CC	TT	1946899825
SNP_P4_102464_38993492	NC_021166.1	Ca_kabuli_chr07	38993492	CC	TT	1946899828
SNP_P4_102465_39017594	NC_021166.1	Ca_kabuli_chr07	39017594	GG	AA	1946899830
SNP_P4_102466_39020774	NC_021166.1	Ca_kabuli_chr07	39020774	GG	AA	1946899831
SNP_P4_102467_39020801	NC_021166.1	Ca_kabuli_chr07	39020801	TT	CC	1946899833
SNP_P4_102471_39033437	NC_021166.1	Ca_kabuli_chr07	39033437	TT	CC	1946899835
SNP_P4_102472_39046983	NC_021166.1	Ca_kabuli_chr07	39046983	TT	CC	1946899837
SNP_P4_102473_39048445	NC_021166.1	Ca_kabuli_chr07	39048445	TT	CC	1946899839
SNP_P4_102474_39051772	NC_021166.1	Ca_kabuli_chr07	39051772	GG	AA	1946899841
SNP_P4_102476_39054941	NC_021166.1	Ca_kabuli_chr07	39054941	AA	GG	1946899843
SNP_P4_102477_39055173	NC_021166.1	Ca_kabuli_chr07	39055173	AA	CC	1946899845

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_102479_39055199	NC_021166.1	Ca_kabuli_chr07	39055199	CC	TT	1946899849
SNP_P4_102480_39055354	NC_021166.1	Ca_kabuli_chr07	39055354	AA	GG	1946899851
SNP_P4_102481_39055400	NC_021166.1	Ca_kabuli_chr07	39055400	AA	GG	1946899853
SNP_P4_102482_39055411	NC_021166.1	Ca_kabuli_chr07	39055411	AA	TT	1946899855
SNP_P4_102483_39055420	NC_021166.1	Ca_kabuli_chr07	39055420	AA	CC	1946899857
SNP_P4_102484_39059605	NC_021166.1	Ca_kabuli_chr07	39059605	AA	GG	1946899859
SNP_P4_102485_39076293	NC_021166.1	Ca_kabuli_chr07	39076293	TT	CC	1946899861
SNP_P4_102486_39077109	NC_021166.1	Ca_kabuli_chr07	39077109	GG	AA	1946899863
SNP_P4_102487_39077175	NC_021166.1	Ca_kabuli_chr07	39077175	GG	TT	1946899865
SNP_P4_102488_39078809	NC_021166.1	Ca_kabuli_chr07	39078809	CC	TT	1946899867
SNP_P4_102489_39112582	NC_021166.1	Ca_kabuli_chr07	39112582	TT	GG	1946899869
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SNP_P4_102492_39146505	NC_021166.1	Ca_kabuli_chr07	39146505	TT	AA	1946899873
SNP_P4_102493_39146506	NC_021166.1	Ca_kabuli_chr07	39146506	TT	GG	1946899875
SNP_P4_102494_39149675	NC_021166.1	Ca_kabuli_chr07	39149675	TT	CC	1946899877
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SNP_P4_102496_39149687	NC_021166.1	Ca_kabuli_chr07	39149687	CC	TT	1946899881
SNP_P4_102498_39149781	NC_021166.1	Ca_kabuli_chr07	39149781	TT	GG	1946899883
SNP_P4_102499_39167458	NC_021166.1	Ca_kabuli_chr07	39167458	CC	GG	1946899884
SNP_P4_102500_39204924	NC_021166.1	Ca_kabuli_chr07	39204924	CC	TT	1946899886
SNP_P4_102502_39255645	NC_021166.1	Ca_kabuli_chr07	39255645	GG	TT	1946899889
SNP_P4_102503_39259788	NC_021166.1	Ca_kabuli_chr07	39259788	CC	TT	1946899891
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SNP_P4_102506_39296129	NC_021166.1	Ca_kabuli_chr07	39296129	TT	CC	1946899895
SNP_P4_102507_39300391	NC_021166.1	Ca_kabuli_chr07	39300391	GG	AA	1946899897
SNP_P4_102508_39309472	NC_021166.1	Ca_kabuli_chr07	39309472	CC	TT	1946899899
SNP_P4_102509_39343460	NC_021166.1	Ca_kabuli_chr07	39343460	TT	CC	1946899901
SNP_P4_102511_39348288	NC_021166.1	Ca_kabuli_chr07	39348288	TT	CC	1946899903
SNP_P4_102513_39370809	NC_021166.1	Ca_kabuli_chr07	39370809	TT	CC	1946899905
SNP_P4_102514_39370822	NC_021166.1	Ca_kabuli_chr07	39370822	GG	AA	1946899907
SNP_P4_102515_39370830	NC_021166.1	Ca_kabuli_chr07	39370830	GG	CC	1946899909
SNP_P4_102517_39405479	NC_021166.1	Ca_kabuli_chr07	39405479	AA	TT	1946899911
SNP_P4_102518_39429767	NC_021166.1	Ca_kabuli_chr07	39429767	GG	AA	1946899912
SNP_P4_102519_39438540	NC_021166.1	Ca_kabuli_chr07	39438540	TT	CC	1946899914
SNP_P4_102520_39455256	NC_021166.1	Ca_kabuli_chr07	39455256	GG	AA	1946899916
SNP_P4_102521_39481091	NC_021166.1	Ca_kabuli_chr07	39481091	GG	AA	1946899918
SNP_P4_102523_39495876	NC_021166.1	Ca_kabuli_chr07	39495876	CC	AA	1946899920
SNP_P4_102524_39499237	NC_021166.1	Ca_kabuli_chr07	39499237	AA	CC	1946899922
SNP_P4_102530_39554618	NC_021166.1	Ca_kabuli_chr07	39554618	GG	TT	1946899930
SNP_P4_102531_39554992	NC_021166.1	Ca_kabuli_chr07	39554992	TT	CC	1946899932
SNP_P4_102532_39554998	NC_021166.1	Ca_kabuli_chr07	39554998	TT	AA	1946899934

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_102533_39555028	NC_021166.1	Ca_kabuli_chr07	39555028	GG	CC	1946899936
SNP_P4_102534_39555064	NC_021166.1	Ca_kabuli_chr07	39555064	AA	TT	1946899938
SNP_P4_102535_39557494	NC_021166.1	Ca_kabuli_chr07	39557494	AA	CC	1946899940
SNP_P4_102536_39557497	NC_021166.1	Ca_kabuli_chr07	39557497	TT	CC	1946899942
SNP_P4_102537_39557517	NC_021166.1	Ca_kabuli_chr07	39557517	TT	CC	1946899944
SNP_P4_102538_39557529	NC_021166.1	Ca_kabuli_chr07	39557529	AA	GG	1946899946
SNP_P4_102539_39557579	NC_021166.1	Ca_kabuli_chr07	39557579	TT	GG	1946899948
SNP_P4_102540_39557854	NC_021166.1	Ca_kabuli_chr07	39557854	AA	GG	1946899950
SNP_P4_102541_39564326	NC_021166.1	Ca_kabuli_chr07	39564326	TT	CC	1946899952
SNP_P4_102542_39571195	NC_021166.1	Ca_kabuli_chr07	39571195	AA	GG	1946899954
SNP_P4_102543_39575520	NC_021166.1	Ca_kabuli_chr07	39575520	TT	AA	1946899956
SNP_P4_102544_39575533	NC_021166.1	Ca_kabuli_chr07	39575533	GG	AA	1946899958
SNP_P4_102545_39575536	NC_021166.1	Ca_kabuli_chr07	39575536	AA	GG	1946899959
SNP_P4_102546_39575568	NC_021166.1	Ca_kabuli_chr07	39575568	CC	TT	1946899960
SNP_P4_102547_39576143	NC_021166.1	Ca_kabuli_chr07	39576143	TT	CC	1946899961
SNP_P4_102548_39577619	NC_021166.1	Ca_kabuli_chr07	39577619	CC	AA	1946899962
SNP_P4_102549_39602912	NC_021166.1	Ca_kabuli_chr07	39602912	GG	AA	1946899963
SNP_P4_102552_39621481	NC_021166.1	Ca_kabuli_chr07	39621481	CC	TT	1946899965
SNP_P4_102553_39621606	NC_021166.1	Ca_kabuli_chr07	39621606	TT	CC	1946899967
SNP_P4_102554_39621787	NC_021166.1	Ca_kabuli_chr07	39621787	AA	GG	1946899969
SNP_P4_102555_39630382	NC_021166.1	Ca_kabuli_chr07	39630382	GG	AA	1946899971
SNP_P4_102556_39630607	NC_021166.1	Ca_kabuli_chr07	39630607	AA	TT	1946899973
SNP_P4_102557_39630614	NC_021166.1	Ca_kabuli_chr07	39630614	GG	CC	1946899975
SNP_P4_102559_39630696	NC_021166.1	Ca_kabuli_chr07	39630696	GG	AA	1946899977
SNP_P4_102560_39630716	NC_021166.1	Ca_kabuli_chr07	39630716	TT	GG	1946899979
SNP_P4_102561_39630786	NC_021166.1	Ca_kabuli_chr07	39630786	TT	CC	1946899981
SNP_P4_102562_39639367	NC_021166.1	Ca_kabuli_chr07	39639367	GG	TT	1946899983
SNP_P4_102563_39639662	NC_021166.1	Ca_kabuli_chr07	39639662	AA	CC	1946899985
SNP_P4_102564_39673482	NC_021166.1	Ca_kabuli_chr07	39673482	GG	AA	1946899987
SNP_P4_102565_39674856	NC_021166.1	Ca_kabuli_chr07	39674856	GG	AA	1946899989
SNP_P4_102566_39675456	NC_021166.1	Ca_kabuli_chr07	39675456	TT	CC	1946899991
SNP_P4_102567_39683072	NC_021166.1	Ca_kabuli_chr07	39683072	TT	CC	1946899993
SNP_P4_102568_39684018	NC_021166.1	Ca_kabuli_chr07	39684018	AA	CC	1946899996
SNP_P4_102569_39727543	NC_021166.1	Ca_kabuli_chr07	39727543	AA	GG	1946899998
SNP_P4_102570_39728737	NC_021166.1	Ca_kabuli_chr07	39728737	TT	CC	1946900000
SNP_P4_102571_39795079	NC_021166.1	Ca_kabuli_chr07	39795079	AA	GG	1946900002
SNP_P4_102573_39809232	NC_021166.1	Ca_kabuli_chr07	39809232	GG	TT	1946900004
SNP_P4_102574_39809249	NC_021166.1	Ca_kabuli_chr07	39809249	TT	CC	1946900006
SNP_P4_102575_39820028	NC_021166.1	Ca_kabuli_chr07	39820028	CC	TT	1946900008
SNP_P4_102576_39829268	NC_021166.1	Ca_kabuli_chr07	39829268	CC	TT	1946900010
SNP_P4_102577_39829293	NC_021166.1	Ca_kabuli_chr07	39829293	AA	GG	1946900012
SNP_P4_102578_39829347	NC_021166.1	Ca_kabuli_chr07	39829347	GG	TT	1946900014

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_102580_39829493	NC_021166.1	Ca_kabuli_chr07	39829493	GG	AA	1946900019
SNP_P4_102581_39829623	NC_021166.1	Ca_kabuli_chr07	39829623	GG	AA	1946900021
SNP_P4_102582_39829645	NC_021166.1	Ca_kabuli_chr07	39829645	GG	TT	1946900023
SNP_P4_102583_39829679	NC_021166.1	Ca_kabuli_chr07	39829679	AA	GG	1946900025
SNP_P4_102584_39829751	NC_021166.1	Ca_kabuli_chr07	39829751	GG	CC	1946900027
SNP_P4_102585_39829922	NC_021166.1	Ca_kabuli_chr07	39829922	CC	AA	1946900029
SNP_P4_102586_39830287	NC_021166.1	Ca_kabuli_chr07	39830287	GG	CC	1946900031
SNP_P4_102588_39832114	NC_021166.1	Ca_kabuli_chr07	39832114	AA	CC	1946900033
SNP_P4_102589_39844485	NC_021166.1	Ca_kabuli_chr07	39844485	AA	GG	1946900035
SNP_P4_102590_39844531	NC_021166.1	Ca_kabuli_chr07	39844531	TT	GG	1946900037
SNP_P4_102591_39844558	NC_021166.1	Ca_kabuli_chr07	39844558	CC	AA	1946900039
SNP_P4_102592_39844568	NC_021166.1	Ca_kabuli_chr07	39844568	GG	TT	1946900041
SNP_P4_102593_39844866	NC_021166.1	Ca_kabuli_chr07	39844866	TT	CC	1946900043
SNP_P4_102594_39845456	NC_021166.1	Ca_kabuli_chr07	39845456	GG	AA	1946900045
SNP_P4_102595_39847657	NC_021166.1	Ca_kabuli_chr07	39847657	AA	TT	1946900047
SNP_P4_102596_39847682	NC_021166.1	Ca_kabuli_chr07	39847682	AA	CC	1946900049
SNP_P4_102597_39848044	NC_021166.1	Ca_kabuli_chr07	39848044	TT	CC	1946900051
SNP_P4_102598_39848087	NC_021166.1	Ca_kabuli_chr07	39848087	TT	GG	1946900053
SNP_P4_102599_39848096	NC_021166.1	Ca_kabuli_chr07	39848096	TT	GG	1946900055
SNP_P4_102600_39848111	NC_021166.1	Ca_kabuli_chr07	39848111	AA	CC	1946900057
SNP_P4_102601_39850009	NC_021166.1	Ca_kabuli_chr07	39850009	AA	GG	1946900059
SNP_P4_102602_39850024	NC_021166.1	Ca_kabuli_chr07	39850024	GG	AA	1946900061
SNP_P4_102603_39850486	NC_021166.1	Ca_kabuli_chr07	39850486	CC	AA	1946900063
SNP_P4_102604_39850587	NC_021166.1	Ca_kabuli_chr07	39850587	GG	AA	1946900065
SNP_P4_102605_39850630	NC_021166.1	Ca_kabuli_chr07	39850630	AA	GG	1946900067
SNP_P4_102606_39850746	NC_021166.1	Ca_kabuli_chr07	39850746	CC	TT	1946900069
SNP_P4_102607_39851001	NC_021166.1	Ca_kabuli_chr07	39851001	TT	CC	1946900071
SNP_P4_102608_39851041	NC_021166.1	Ca_kabuli_chr07	39851041	TT	CC	1946900073
SNP_P4_102610_39863628	NC_021166.1	Ca_kabuli_chr07	39863628	GG	TT	1946900075
SNP_P4_102611_39863637	NC_021166.1	Ca_kabuli_chr07	39863637	GG	TT	1946900077
SNP_P4_102612_39868686	NC_021166.1	Ca_kabuli_chr07	39868686	AA	GG	1946900079
SNP_P4_102613_39881698	NC_021166.1	Ca_kabuli_chr07	39881698	TT	GG	1946900081
SNP_P4_102614_39897754	NC_021166.1	Ca_kabuli_chr07	39897754	CC	TT	1946900084
SNP_P4_102615_39902293	NC_021166.1	Ca_kabuli_chr07	39902293	GG	TT	1946900086
SNP_P4_102616_39902508	NC_021166.1	Ca_kabuli_chr07	39902508	TT	CC	1946900088
SNP_P4_102617_39915176	NC_021166.1	Ca_kabuli_chr07	39915176	TT	CC	1946900090
SNP_P4_102618_39930759	NC_021166.1	Ca_kabuli_chr07	39930759	CC	AA	1946900092
SNP_P4_102619_39934364	NC_021166.1	Ca_kabuli_chr07	39934364	TT	CC	1946900094
SNP_P4_102620_39934415	NC_021166.1	Ca_kabuli_chr07	39934415	GG	AA	1946900096
SNP_P4_102621_39934458	NC_021166.1	Ca_kabuli_chr07	39934458	AA	GG	1946900098
SNP_P4_102622_39934616	NC_021166.1	Ca_kabuli_chr07	39934616	TT	CC	1946900100

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_102624_39934656	NC_021166.1	Ca_kabuli_chr07	39934656	TT	CC	1946900104
SNP_P4_102625_39934667	NC_021166.1	Ca_kabuli_chr07	39934667	AA	GG	1946900106
SNP_P4_102626_39947771	NC_021166.1	Ca_kabuli_chr07	39947771	AA	TT	1946900108
SNP_P4_102627_39970444	NC_021166.1	Ca_kabuli_chr07	39970444	TT	AA	1946900110
SNP_P4_102629_39983406	NC_021166.1	Ca_kabuli_chr07	39983406	TT	AA	1946900112
SNP_P4_102630_39983722	NC_021166.1	Ca_kabuli_chr07	39983722	CC	AA	1946900114
SNP_P4_102632_39984663	NC_021166.1	Ca_kabuli_chr07	39984663	AA	GG	1946900116
SNP_P4_102633_40010493	NC_021166.1	Ca_kabuli_chr07	40010493	AA	GG	1946900118
SNP_P4_102634_40011149	NC_021166.1	Ca_kabuli_chr07	40011149	CC	TT	1946900121
SNP_P4_102635_40011162	NC_021166.1	Ca_kabuli_chr07	40011162	CC	AA	1946900123
SNP_P4_102637_40013559	NC_021166.1	Ca_kabuli_chr07	40013559	CC	AA	1946900125
SNP_P4_102638_40013664	NC_021166.1	Ca_kabuli_chr07	40013664	GG	AA	1946900127
SNP_P4_102639_40013676	NC_021166.1	Ca_kabuli_chr07	40013676	GG	TT	1946900129
SNP_P4_102640_40013719	NC_021166.1	Ca_kabuli_chr07	40013719	CC	TT	1946900131
SNP_P4_102641_40013728	NC_021166.1	Ca_kabuli_chr07	40013728	TT	AA	1946900133
SNP_P4_102642_40013794	NC_021166.1	Ca_kabuli_chr07	40013794	GG	AA	1946900135
SNP_P4_102643_40013837	NC_021166.1	Ca_kabuli_chr07	40013837	AA	CC	1946900137
SNP_P4_102644_40014376	NC_021166.1	Ca_kabuli_chr07	40014376	CC	TT	1946900139
SNP_P4_102647_40045301	NC_021166.1	Ca_kabuli_chr07	40045301	TT	GG	1946900141
SNP_P4_102648_40048089	NC_021166.1	Ca_kabuli_chr07	40048089	AA	CC	1946900143
SNP_P4_102649_40048872	NC_021166.1	Ca_kabuli_chr07	40048872	AA	TT	1946900145
SNP_P4_102650_40048887	NC_021166.1	Ca_kabuli_chr07	40048887	TT	CC	1946900147
SNP_P4_102651_40048916	NC_021166.1	Ca_kabuli_chr07	40048916	TT	CC	1946900149
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SNP_P4_102653_40049173	NC_021166.1	Ca_kabuli_chr07	40049173	AA	TT	1946900153
SNP_P4_102654_40049179	NC_021166.1	Ca_kabuli_chr07	40049179	TT	CC	1946900155
SNP_P4_102655_40049580	NC_021166.1	Ca_kabuli_chr07	40049580	CC	GG	1946900157
SNP_P4_102656_40049662	NC_021166.1	Ca_kabuli_chr07	40049662	TT	CC	1946900159
SNP_P4_102657_40049900	NC_021166.1	Ca_kabuli_chr07	40049900	AA	GG	1946900161
SNP_P4_102658_40049907	NC_021166.1	Ca_kabuli_chr07	40049907	AA	GG	1946900163
SNP_P4_102659_40049909	NC_021166.1	Ca_kabuli_chr07	40049909	AA	GG	1946900165
SNP_P4_102662_40086996	NC_021166.1	Ca_kabuli_chr07	40086996	AA	TT	1946900167
SNP_P4_102663_40086997	NC_021166.1	Ca_kabuli_chr07	40086997	TT	GG	1946900169
SNP_P4_102664_40087001	NC_021166.1	Ca_kabuli_chr07	40087001	TT	CC	1946900171
SNP_P4_102665_40087056	NC_021166.1	Ca_kabuli_chr07	40087056	TT	CC	1946900173
SNP_P4_102666_40087122	NC_021166.1	Ca_kabuli_chr07	40087122	CC	AA	1946900175
SNP_P4_102667_40087179	NC_021166.1	Ca_kabuli_chr07	40087179	TT	AA	1946900177
SNP_P4_102668_40087196	NC_021166.1	Ca_kabuli_chr07	40087196	AA	GG	1946900179
SNP_P4_102669_40088496	NC_021166.1	Ca_kabuli_chr07	40088496	AA	GG	1946900181
SNP_P4_102670_40088561	NC_021166.1	Ca_kabuli_chr07	40088561	AA	GG	1946900183
SNP_P4_102671_40088923	NC_021166.1	Ca_kabuli_chr07	40088923	TT	GG	1946900185

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_102673_40089891	NC_021166.1	Ca_kabuli_chr07	40089891	CC	TT	1946900189
SNP_P4_102674_40090137	NC_021166.1	Ca_kabuli_chr07	40090137	GG	AA	1946900191
SNP_P4_102675_40090150	NC_021166.1	Ca_kabuli_chr07	40090150	AA	CC	1946900193
SNP_P4_102676_40090183	NC_021166.1	Ca_kabuli_chr07	40090183	GG	CC	1946900195
SNP_P4_102677_40090208	NC_021166.1	Ca_kabuli_chr07	40090208	TT	CC	1946900197
SNP_P4_102678_40130058	NC_021166.1	Ca_kabuli_chr07	40130058	TT	CC	1946900199
SNP_P4_102679_40130059	NC_021166.1	Ca_kabuli_chr07	40130059	CC	TT	1946900201
SNP_P4_102680_40136641	NC_021166.1	Ca_kabuli_chr07	40136641	GG	AA	1946900204
SNP_P4_102681_40141223	NC_021166.1	Ca_kabuli_chr07	40141223	TT	CC	1946900205
SNP_P4_102682_40153296	NC_021166.1	Ca_kabuli_chr07	40153296	AA	GG	1946900207
SNP_P4_102683_40153297	NC_021166.1	Ca_kabuli_chr07	40153297	CC	TT	1946900210
SNP_P4_102684_40161060	NC_021166.1	Ca_kabuli_chr07	40161060	TT	CC	1946900212
SNP_P4_102685_40189831	NC_021166.1	Ca_kabuli_chr07	40189831	TT	CC	1946900214
SNP_P4_102686_40206535	NC_021166.1	Ca_kabuli_chr07	40206535	GG	CC	1946900216
SNP_P4_102687_40208219	NC_021166.1	Ca_kabuli_chr07	40208219	TT	CC	1946900218
SNP_P4_102688_40209862	NC_021166.1	Ca_kabuli_chr07	40209862	AA	CC	1946900220
SNP_P4_102689_40277823	NC_021166.1	Ca_kabuli_chr07	40277823	GG	AA	1946900222
SNP_P4_102690_40280985	NC_021166.1	Ca_kabuli_chr07	40280985	CC	TT	1946900224
SNP_P4_102691_40281006	NC_021166.1	Ca_kabuli_chr07	40281006	AA	GG	1946900226
SNP_P4_102693_40339345	NC_021166.1	Ca_kabuli_chr07	40339345	CC	TT	1946900228
SNP_P4_102694_40344269	NC_021166.1	Ca_kabuli_chr07	40344269	GG	AA	1946900230
SNP_P4_102695_40374468	NC_021166.1	Ca_kabuli_chr07	40374468	TT	CC	1946900232
SNP_P4_102697_40429662	NC_021166.1	Ca_kabuli_chr07	40429662	GG	AA	1946900234
SNP_P4_102698_40429663	NC_021166.1	Ca_kabuli_chr07	40429663	AA	GG	1946900236
SNP_P4_102699_40429796	NC_021166.1	Ca_kabuli_chr07	40429796	AA	GG	1946900238
SNP_P4_102700_40429870	NC_021166.1	Ca_kabuli_chr07	40429870	CC	GG	1946900240
SNP_P4_102701_40429976	NC_021166.1	Ca_kabuli_chr07	40429976	AA	GG	1946900242
SNP_P4_102702_40430015	NC_021166.1	Ca_kabuli_chr07	40430015	GG	AA	1946900244
SNP_P4_102703_40430046	NC_021166.1	Ca_kabuli_chr07	40430046	CC	AA	1946900246
SNP_P4_102704_40430085	NC_021166.1	Ca_kabuli_chr07	40430085	AA	CC	1946900248
SNP_P4_102705_40430109	NC_021166.1	Ca_kabuli_chr07	40430109	GG	AA	1946900250
SNP_P4_102706_40430110	NC_021166.1	Ca_kabuli_chr07	40430110	AA	GG	1946900252
SNP_P4_102708_40430182	NC_021166.1	Ca_kabuli_chr07	40430182	TT	GG	1946900254
SNP_P4_102709_40430183	NC_021166.1	Ca_kabuli_chr07	40430183	TT	CC	1946900256
SNP_P4_102710_40430299	NC_021166.1	Ca_kabuli_chr07	40430299	GG	AA	1946900258
SNP_P4_102711_40436824	NC_021166.1	Ca_kabuli_chr07	40436824	CC	TT	1946900260
SNP_P4_102712_40439650	NC_021166.1	Ca_kabuli_chr07	40439650	CC	GG	1946900262
SNP_P4_102713_40469785	NC_021166.1	Ca_kabuli_chr07	40469785	GG	AA	1946900264
SNP_P4_102714_40474281	NC_021166.1	Ca_kabuli_chr07	40474281	CC	GG	1946900266
SNP_P4_102716_40494164	NC_021166.1	Ca_kabuli_chr07	40494164	AA	TT	1946900268
SNP_P4_102717_40522080	NC_021166.1	Ca_kabuli_chr07	40522080	TT	CC	1946900270

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_102719_40524776	NC_021166.1	Ca_kabuli_chr07	40524776	GG	AA	1946900274
SNP_P4_102720_40555188	NC_021166.1	Ca_kabuli_chr07	40555188	AA	GG	1946900276
SNP_P4_102721_40555322	NC_021166.1	Ca_kabuli_chr07	40555322	TT	CC	1946900278
SNP_P4_102722_40555345	NC_021166.1	Ca_kabuli_chr07	40555345	GG	TT	1946900280
SNP_P4_102723_40555686	NC_021166.1	Ca_kabuli_chr07	40555686	TT	GG	1946900281
SNP_P4_102724_40568200	NC_021166.1	Ca_kabuli_chr07	40568200	CC	TT	1946900282
SNP_P4_102725_40575868	NC_021166.1	Ca_kabuli_chr07	40575868	GG	TT	1946900283
SNP_P4_102726_40575885	NC_021166.1	Ca_kabuli_chr07	40575885	GG	AA	1946900284
SNP_P4_102727_40579854	NC_021166.1	Ca_kabuli_chr07	40579854	GG	AA	1946900285
SNP_P4_102728_40579863	NC_021166.1	Ca_kabuli_chr07	40579863	CC	AA	1946900286
SNP_P4_102729_40589201	NC_021166.1	Ca_kabuli_chr07	40589201	CC	TT	1946900287
SNP_P4_102730_40589505	NC_021166.1	Ca_kabuli_chr07	40589505	TT	CC	1946900288
SNP_P4_102731_40589520	NC_021166.1	Ca_kabuli_chr07	40589520	TT	CC	1946900289
SNP_P4_102732_40589549	NC_021166.1	Ca_kabuli_chr07	40589549	CC	TT	1946900290
SNP_P4_102733_40589565	NC_021166.1	Ca_kabuli_chr07	40589565	TT	CC	1946900291
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SNP_P4_102735_40589573	NC_021166.1	Ca_kabuli_chr07	40589573	GG	AA	1946900293
SNP_P4_102736_40589575	NC_021166.1	Ca_kabuli_chr07	40589575	GG	TT	1946900294
SNP_P4_102737_40589583	NC_021166.1	Ca_kabuli_chr07	40589583	AA	GG	1946900295
SNP_P4_102738_40589607	NC_021166.1	Ca_kabuli_chr07	40589607	TT	CC	1946900296
SNP_P4_102739_40589620	NC_021166.1	Ca_kabuli_chr07	40589620	CC	TT	1946900297
SNP_P4_102740_40589642	NC_021166.1	Ca_kabuli_chr07	40589642	TT	CC	1946900298
SNP_P4_102741_40589649	NC_021166.1	Ca_kabuli_chr07	40589649	AA	TT	1946900299
SNP_P4_102742_40589712	NC_021166.1	Ca_kabuli_chr07	40589712	CC	GG	1946900300
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SNP_P4_102747_40589935	NC_021166.1	Ca_kabuli_chr07	40589935	TT	CC	1946900305
SNP_P4_102748_40589950	NC_021166.1	Ca_kabuli_chr07	40589950	GG	TT	1946900306
SNP_P4_102749_40589951	NC_021166.1	Ca_kabuli_chr07	40589951	CC	AA	1946900307
SNP_P4_102750_40589985	NC_021166.1	Ca_kabuli_chr07	40589985	TT	AA	1946900308
SNP_P4_102751_40590049	NC_021166.1	Ca_kabuli_chr07	40590049	TT	GG	1946900309
SNP_P4_102752_40609734	NC_021166.1	Ca_kabuli_chr07	40609734	CC	AA	1946900310
SNP_P4_102754_40613662	NC_021166.1	Ca_kabuli_chr07	40613662	AA	TT	1946900311
SNP_P4_102755_40613679	NC_021166.1	Ca_kabuli_chr07	40613679	CC	AA	1946900312
SNP_P4_102756_40613698	NC_021166.1	Ca_kabuli_chr07	40613698	TT	CC	1946900313
SNP_P4_102757_40628880	NC_021166.1	Ca_kabuli_chr07	40628880	AA	GG	1946900314
SNP_P4_102758_40629246	NC_021166.1	Ca_kabuli_chr07	40629246	AA	GG	1946900315
SNP_P4_102759_40633033	NC_021166.1	Ca_kabuli_chr07	40633033	GG	TT	1946900316
SNP_P4_102760_40639458	NC_021166.1	Ca_kabuli_chr07	40639458	GG	CC	1946900317

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_102762_40656352	NC_021166.1	Ca_kabuli_chr07	40656352	GG	CC	1946900319
SNP_P4_102763_40659392	NC_021166.1	Ca_kabuli_chr07	40659392	AA	GG	1946900320
SNP_P4_102764_40659455	NC_021166.1	Ca_kabuli_chr07	40659455	AA	TT	1946900321
SNP_P4_102765_40659459	NC_021166.1	Ca_kabuli_chr07	40659459	AA	GG	1946900322
SNP_P4_102766_40659728	NC_021166.1	Ca_kabuli_chr07	40659728	TT	GG	1946900323
SNP_P4_102767_40659787	NC_021166.1	Ca_kabuli_chr07	40659787	CC	TT	1946900324
SNP_P4_102768_40662151	NC_021166.1	Ca_kabuli_chr07	40662151	TT	CC	1946900325
SNP_P4_102769_40672236	NC_021166.1	Ca_kabuli_chr07	40672236	AA	GG	1946900326
SNP_P4_102770_40720105	NC_021166.1	Ca_kabuli_chr07	40720105	CC	TT	1946900327
SNP_P4_102771_40748364	NC_021166.1	Ca_kabuli_chr07	40748364	AA	GG	1946900328
SNP_P4_102772_40761984	NC_021166.1	Ca_kabuli_chr07	40761984	AA	GG	1946900329
SNP_P4_102773_40762060	NC_021166.1	Ca_kabuli_chr07	40762060	AA	TT	1946900330
SNP_P4_102774_40768182	NC_021166.1	Ca_kabuli_chr07	40768182	CC	TT	1946900331
SNP_P4_102776_40768770	NC_021166.1	Ca_kabuli_chr07	40768770	GG	AA	1946900332
SNP_P4_102777_40768776	NC_021166.1	Ca_kabuli_chr07	40768776	CC	TT	1946900333
SNP_P4_102778_40768803	NC_021166.1	Ca_kabuli_chr07	40768803	CC	TT	1946900334
SNP_P4_102779_40768860	NC_021166.1	Ca_kabuli_chr07	40768860	GG	AA	1946900335
SNP_P4_102780_40768909	NC_021166.1	Ca_kabuli_chr07	40768909	CC	TT	1946900336
SNP_P4_102781_40768918	NC_021166.1	Ca_kabuli_chr07	40768918	AA	CC	1946900337
SNP_P4_102782_40769076	NC_021166.1	Ca_kabuli_chr07	40769076	AA	GG	1946900338
SNP_P4_102783_40769167	NC_021166.1	Ca_kabuli_chr07	40769167	CC	AA	1946900339
SNP_P4_102784_40769215	NC_021166.1	Ca_kabuli_chr07	40769215	TT	AA	1946900340
SNP_P4_102785_40769216	NC_021166.1	Ca_kabuli_chr07	40769216	CC	TT	1946900341
SNP_P4_102786_40769248	NC_021166.1	Ca_kabuli_chr07	40769248	CC	TT	1946900342
SNP_P4_102787_40770323	NC_021166.1	Ca_kabuli_chr07	40770323	CC	AA	1946900343
SNP_P4_102788_40773885	NC_021166.1	Ca_kabuli_chr07	40773885	CC	TT	1946900344
SNP_P4_102789_40781551	NC_021166.1	Ca_kabuli_chr07	40781551	AA	GG	1946900345
SNP_P4_102790_40785705	NC_021166.1	Ca_kabuli_chr07	40785705	AA	GG	1946900346
SNP_P4_102791_40786448	NC_021166.1	Ca_kabuli_chr07	40786448	TT	AA	1946900347
SNP_P4_102792_40799057	NC_021166.1	Ca_kabuli_chr07	40799057	GG	AA	1946900348
SNP_P4_102794_40804491	NC_021166.1	Ca_kabuli_chr07	40804491	CC	TT	1946900349
SNP_P4_102795_40804503	NC_021166.1	Ca_kabuli_chr07	40804503	CC	TT	1946900350
SNP_P4_102796_40804797	NC_021166.1	Ca_kabuli_chr07	40804797	GG	AA	1946900351
SNP_P4_102797_40804812	NC_021166.1	Ca_kabuli_chr07	40804812	AA	TT	1946900352
SNP_P4_102798_40804992	NC_021166.1	Ca_kabuli_chr07	40804992	TT	AA	1946900354
SNP_P4_102799_40888258	NC_021166.1	Ca_kabuli_chr07	40888258	TT	CC	1946900356
SNP_P4_102800_40888259	NC_021166.1	Ca_kabuli_chr07	40888259	GG	AA	1946900358
SNP_P4_102801_40888575	NC_021166.1	Ca_kabuli_chr07	40888575	GG	AA	1946900360
SNP_P4_102802_40914008	NC_021166.1	Ca_kabuli_chr07	40914008	CC	GG	1946900362
SNP_P4_102803_40951077	NC_021166.1	Ca_kabuli_chr07	40951077	GG	AA	1946900364
SNP_P4_102804_40951083	NC_021166.1	Ca_kabuli_chr07	40951083	TT	CC	1946900366

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_102806_40965582	NC_021166.1	Ca_kabuli_chr07	40965582	CC	AA	1946900369
SNP_P4_102808_40973569	NC_021166.1	Ca_kabuli_chr07	40973569	AA	GG	1946900371
SNP_P4_102809_40978498	NC_021166.1	Ca_kabuli_chr07	40978498	TT	AA	1946900373
SNP_P4_102810_40978509	NC_021166.1	Ca_kabuli_chr07	40978509	GG	TT	1946900375
SNP_P4_102811_40978512	NC_021166.1	Ca_kabuli_chr07	40978512	TT	AA	1946900377
SNP_P4_102812_40978541	NC_021166.1	Ca_kabuli_chr07	40978541	AA	TT	1946900379
SNP_P4_102813_40978568	NC_021166.1	Ca_kabuli_chr07	40978568	TT	CC	1946900381
SNP_P4_102814_40978599	NC_021166.1	Ca_kabuli_chr07	40978599	CC	AA	1946900383
SNP_P4_102815_40978635	NC_021166.1	Ca_kabuli_chr07	40978635	CC	TT	1946900385
SNP_P4_102816_40978652	NC_021166.1	Ca_kabuli_chr07	40978652	CC	TT	1946900387
SNP_P4_102817_40978653	NC_021166.1	Ca_kabuli_chr07	40978653	GG	AA	1946900389
SNP_P4_102818_40978663	NC_021166.1	Ca_kabuli_chr07	40978663	TT	CC	1946900391
SNP_P4_102819_40978666	NC_021166.1	Ca_kabuli_chr07	40978666	AA	GG	1946900393
SNP_P4_102820_40978670	NC_021166.1	Ca_kabuli_chr07	40978670	CC	GG	1946900395
SNP_P4_102821_40978689	NC_021166.1	Ca_kabuli_chr07	40978689	TT	CC	1946900397
SNP_P4_102822_40978692	NC_021166.1	Ca_kabuli_chr07	40978692	TT	CC	1946900399
SNP_P4_102823_40982522	NC_021166.1	Ca_kabuli_chr07	40982522	TT	CC	1946900401
SNP_P4_102824_40982837	NC_021166.1	Ca_kabuli_chr07	40982837	CC	TT	1946900403
SNP_P4_102825_40984998	NC_021166.1	Ca_kabuli_chr07	40984998	CC	TT	1946900405
SNP_P4_102827_40985058	NC_021166.1	Ca_kabuli_chr07	40985058	AA	TT	1946900407
SNP_P4_102828_40985074	NC_021166.1	Ca_kabuli_chr07	40985074	CC	AA	1946900410
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SNP_P4_102831_40985100	NC_021166.1	Ca_kabuli_chr07	40985100	CC	TT	1946900416
SNP_P4_102832_40985319	NC_021166.1	Ca_kabuli_chr07	40985319	GG	AA	1946900418
SNP_P4_102833_40985340	NC_021166.1	Ca_kabuli_chr07	40985340	AA	GG	1946900420
SNP_P4_102834_40985610	NC_021166.1	Ca_kabuli_chr07	40985610	TT	CC	1946900423
SNP_P4_102835_40985611	NC_021166.1	Ca_kabuli_chr07	40985611	GG	AA	1946900425
SNP_P4_102836_40985718	NC_021166.1	Ca_kabuli_chr07	40985718	AA	GG	1946900427
SNP_P4_102837_40985719	NC_021166.1	Ca_kabuli_chr07	40985719	GG	AA	1946900429
SNP_P4_102838_40985726	NC_021166.1	Ca_kabuli_chr07	40985726	GG	AA	1946900432
SNP_P4_102839_40985733	NC_021166.1	Ca_kabuli_chr07	40985733	AA	GG	1946900434
SNP_P4_102840_40986626	NC_021166.1	Ca_kabuli_chr07	40986626	GG	TT	1946900436
SNP_P4_102841_40986757	NC_021166.1	Ca_kabuli_chr07	40986757	AA	TT	1946900438
SNP_P4_102842_40986759	NC_021166.1	Ca_kabuli_chr07	40986759	TT	AA	1946900440
SNP_P4_102843_40986765	NC_021166.1	Ca_kabuli_chr07	40986765	AA	TT	1946900442
SNP_P4_102844_40986768	NC_021166.1	Ca_kabuli_chr07	40986768	TT	AA	1946900444
SNP_P4_102845_40986781	NC_021166.1	Ca_kabuli_chr07	40986781	AA	TT	1946900446
SNP_P4_102846_40986787	NC_021166.1	Ca_kabuli_chr07	40986787	TT	AA	1946900448
SNP_P4_102847_40986794	NC_021166.1	Ca_kabuli_chr07	40986794	AA	TT	1946900451
SNP_P4_102848_40986816	NC_021166.1	Ca_kabuli_chr07	40986816	AA	CC	1946900453

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_102851_40986853	NC_021166.1	Ca_kabuli_chr07	40986853	AA	CC	1946900459
SNP_P4_102852_40990636	NC_021166.1	Ca_kabuli_chr07	40990636	TT	GG	1946900462
SNP_P4_102853_40990645	NC_021166.1	Ca_kabuli_chr07	40990645	GG	AA	1946900464
SNP_P4_102854_40990684	NC_021166.1	Ca_kabuli_chr07	40990684	CC	AA	1946900466
SNP_P4_102855_40990852	NC_021166.1	Ca_kabuli_chr07	40990852	TT	CC	1946900468
SNP_P4_102856_40990853	NC_021166.1	Ca_kabuli_chr07	40990853	GG	AA	1946900470
SNP_P4_102857_40990867	NC_021166.1	Ca_kabuli_chr07	40990867	GG	TT	1946900472
SNP_P4_102858_40990890	NC_021166.1	Ca_kabuli_chr07	40990890	GG	AA	1946900475
SNP_P4_102859_40990917	NC_021166.1	Ca_kabuli_chr07	40990917	AA	GG	1946900477
SNP_P4_102860_40990919	NC_021166.1	Ca_kabuli_chr07	40990919	AA	GG	1946900479
SNP_P4_102861_40990950	NC_021166.1	Ca_kabuli_chr07	40990950	CC	TT	1946900481
SNP_P4_102862_40990959	NC_021166.1	Ca_kabuli_chr07	40990959	CC	AA	1946900482
SNP_P4_102863_40990964	NC_021166.1	Ca_kabuli_chr07	40990964	TT	CC	1946900483
SNP_P4_102864_40991315	NC_021166.1	Ca_kabuli_chr07	40991315	TT	AA	1946900485
SNP_P4_102865_40991335	NC_021166.1	Ca_kabuli_chr07	40991335	GG	AA	1946900487
SNP_P4_102866_40991340	NC_021166.1	Ca_kabuli_chr07	40991340	AA	TT	1946900489
SNP_P4_102867_40998076	NC_021166.1	Ca_kabuli_chr07	40998076	CC	TT	1946900491
SNP_P4_102868_41002535	NC_021166.1	Ca_kabuli_chr07	41002535	AA	TT	1946900493
SNP_P4_102870_41008376	NC_021166.1	Ca_kabuli_chr07	41008376	TT	AA	1946900495
SNP_P4_102871_41008436	NC_021166.1	Ca_kabuli_chr07	41008436	AA	GG	1946900497
SNP_P4_102872_41008458	NC_021166.1	Ca_kabuli_chr07	41008458	TT	GG	1946900499
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SNP_P4_102876_41008607	NC_021166.1	Ca_kabuli_chr07	41008607	CC	GG	1946900508
SNP_P4_102877_41008692	NC_021166.1	Ca_kabuli_chr07	41008692	GG	AA	1946900510
SNP_P4_102878_41008705	NC_021166.1	Ca_kabuli_chr07	41008705	AA	GG	1946900512
SNP_P4_102879_41008762	NC_021166.1	Ca_kabuli_chr07	41008762	GG	TT	1946900514
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SNP_P4_102882_41008833	NC_021166.1	Ca_kabuli_chr07	41008833	GG	AA	1946900518
SNP_P4_102883_41008839	NC_021166.1	Ca_kabuli_chr07	41008839	CC	TT	1946900520
SNP_P4_102884_41008877	NC_021166.1	Ca_kabuli_chr07	41008877	TT	AA	1946900523
SNP_P4_102885_41008944	NC_021166.1	Ca_kabuli_chr07	41008944	TT	CC	1946900525
SNP_P4_102887_41009240	NC_021166.1	Ca_kabuli_chr07	41009240	CC	GG	1946900527
SNP_P4_102888_41009243	NC_021166.1	Ca_kabuli_chr07	41009243	AA	TT	1946900529
SNP_P4_102889_41009249	NC_021166.1	Ca_kabuli_chr07	41009249	AA	TT	1946900531
SNP_P4_102890_41009304	NC_021166.1	Ca_kabuli_chr07	41009304	AA	CC	1946900533
SNP_P4_102891_41009399	NC_021166.1	Ca_kabuli_chr07	41009399	AA	TT	1946900535
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_102898_41010247	NC_021166.1	Ca_kabuli_chr07	41010247	TT	AA	1946900546
SNP_P4_102899_41010343	NC_021166.1	Ca_kabuli_chr07	41010343	TT	AA	1946900548
SNP_P4_102900_41027465	NC_021166.1	Ca_kabuli_chr07	41027465	AA	TT	1946900550
SNP_P4_102901_41027537	NC_021166.1	Ca_kabuli_chr07	41027537	GG	AA	1946900552
SNP_P4_102902_41027569	NC_021166.1	Ca_kabuli_chr07	41027569	AA	CC	1946900554
SNP_P4_102903_41027790	NC_021166.1	Ca_kabuli_chr07	41027790	AA	CC	1946900557
SNP_P4_102904_41027830	NC_021166.1	Ca_kabuli_chr07	41027830	CC	GG	1946900559
SNP_P4_102905_41027861	NC_021166.1	Ca_kabuli_chr07	41027861	AA	GG	1946900561
SNP_P4_102906_41027893	NC_021166.1	Ca_kabuli_chr07	41027893	TT	AA	1946900563
SNP_P4_102907_41052325	NC_021166.1	Ca_kabuli_chr07	41052325	TT	CC	1946900565
SNP_P4_102908_41052645	NC_021166.1	Ca_kabuli_chr07	41052645	TT	GG	1946900567
SNP_P4_102909_41060681	NC_021166.1	Ca_kabuli_chr07	41060681	CC	TT	1946900569
SNP_P4_102910_41060694	NC_021166.1	Ca_kabuli_chr07	41060694	CC	TT	1946900571
SNP_P4_102911_41060713	NC_021166.1	Ca_kabuli_chr07	41060713	GG	AA	1946900573
SNP_P4_102912_41060763	NC_021166.1	Ca_kabuli_chr07	41060763	CC	TT	1946900575
SNP_P4_102913_41062676	NC_021166.1	Ca_kabuli_chr07	41062676	AA	GG	1946900577
SNP_P4_102914_41072552	NC_021166.1	Ca_kabuli_chr07	41072552	GG	AA	1946900579
SNP_P4_102915_41073159	NC_021166.1	Ca_kabuli_chr07	41073159	AA	GG	1946900581
SNP_P4_102916_41073180	NC_021166.1	Ca_kabuli_chr07	41073180	TT	CC	1946900583
SNP_P4_102917_41098498	NC_021166.1	Ca_kabuli_chr07	41098498	TT	CC	1946900585
SNP_P4_102918_41106933	NC_021166.1	Ca_kabuli_chr07	41106933	AA	CC	1946900587
SNP_P4_102919_41115650	NC_021166.1	Ca_kabuli_chr07	41115650	AA	GG	1946900589
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SNP_P4_102921_41129475	NC_021166.1	Ca_kabuli_chr07	41129475	TT	CC	1946900594
SNP_P4_102922_41129562	NC_021166.1	Ca_kabuli_chr07	41129562	GG	AA	1946900596
SNP_P4_102923_41158900	NC_021166.1	Ca_kabuli_chr07	41158900	AA	CC	1946900598
SNP_P4_102924_41160467	NC_021166.1	Ca_kabuli_chr07	41160467	AA	CC	1946900600
SNP_P4_102925_41166196	NC_021166.1	Ca_kabuli_chr07	41166196	TT	CC	1946900602
SNP_P4_102926_41167758	NC_021166.1	Ca_kabuli_chr07	41167758	AA	GG	1946900604
SNP_P4_102927_41167885	NC_021166.1	Ca_kabuli_chr07	41167885	CC	TT	1946900606
SNP_P4_102928_41167907	NC_021166.1	Ca_kabuli_chr07	41167907	TT	GG	1946900608
SNP_P4_102929_41167913	NC_021166.1	Ca_kabuli_chr07	41167913	AA	CC	1946900610
SNP_P4_102930_41167934	NC_021166.1	Ca_kabuli_chr07	41167934	GG	AA	1946900612
SNP_P4_102931_41167952	NC_021166.1	Ca_kabuli_chr07	41167952	AA	GG	1946900614
SNP_P4_102932_41168195	NC_021166.1	Ca_kabuli_chr07	41168195	GG	TT	1946900617
SNP_P4_102933_41168205	NC_021166.1	Ca_kabuli_chr07	41168205	AA	GG	1946900619
SNP_P4_102934_41168230	NC_021166.1	Ca_kabuli_chr07	41168230	AA	CC	1946900621
SNP_P4_102935_41168236	NC_021166.1	Ca_kabuli_chr07	41168236	GG	AA	1946900623
SNP_P4_102936_41168269	NC_021166.1	Ca_kabuli_chr07	41168269	GG	TT	1946900625
SNP_P4_102937_41168307	NC_021166.1	Ca_kabuli_chr07	41168307	CC	TT	1946900627

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_102939_41170143	NC_021166.1	Ca_kabuli_chr07	41170143	AA	GG	1946900631
SNP_P4_102940_41170170	NC_021166.1	Ca_kabuli_chr07	41170170	GG	AA	1946900633
SNP_P4_102941_41170275	NC_021166.1	Ca_kabuli_chr07	41170275	CC	GG	1946900635
SNP_P4_102942_41170311	NC_021166.1	Ca_kabuli_chr07	41170311	CC	AA	1946900637
SNP_P4_102944_41170628	NC_021166.1	Ca_kabuli_chr07	41170628	CC	TT	1946900639
SNP_P4_102945_41184882	NC_021166.1	Ca_kabuli_chr07	41184882	CC	TT	1946900641
SNP_P4_102946_41185113	NC_021166.1	Ca_kabuli_chr07	41185113	AA	GG	1946900643
SNP_P4_102947_41200763	NC_021166.1	Ca_kabuli_chr07	41200763	TT	AA	1946900645
SNP_P4_102948_41215435	NC_021166.1	Ca_kabuli_chr07	41215435	AA	CC	1946900647
SNP_P4_102949_41215484	NC_021166.1	Ca_kabuli_chr07	41215484	TT	AA	1946900649
SNP_P4_102950_41215487	NC_021166.1	Ca_kabuli_chr07	41215487	GG	CC	1946900651
SNP_P4_102951_41215591	NC_021166.1	Ca_kabuli_chr07	41215591	TT	CC	1946900653
SNP_P4_102952_41215609	NC_021166.1	Ca_kabuli_chr07	41215609	GG	AA	1946900655
SNP_P4_102953_41215657	NC_021166.1	Ca_kabuli_chr07	41215657	GG	CC	1946900657
SNP_P4_102954_41215955	NC_021166.1	Ca_kabuli_chr07	41215955	GG	AA	1946900659
SNP_P4_102955_41232035	NC_021166.1	Ca_kabuli_chr07	41232035	AA	TT	1946900661
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SNP_P4_102958_41239055	NC_021166.1	Ca_kabuli_chr07	41239055	AA	CC	1946900667
SNP_P4_102959_41239078	NC_021166.1	Ca_kabuli_chr07	41239078	CC	TT	1946900669
SNP_P4_102960_41239084	NC_021166.1	Ca_kabuli_chr07	41239084	TT	CC	1946900671
SNP_P4_102961_41239241	NC_021166.1	Ca_kabuli_chr07	41239241	AA	GG	1946900673
SNP_P4_102962_41239244	NC_021166.1	Ca_kabuli_chr07	41239244	AA	GG	1946900676
SNP_P4_102963_41239248	NC_021166.1	Ca_kabuli_chr07	41239248	TT	CC	1946900678
SNP_P4_102964_41239292	NC_021166.1	Ca_kabuli_chr07	41239292	AA	GG	1946900680
SNP_P4_102965_41239315	NC_021166.1	Ca_kabuli_chr07	41239315	TT	AA	1946900682
SNP_P4_102966_41239326	NC_021166.1	Ca_kabuli_chr07	41239326	TT	CC	1946900684
SNP_P4_102967_41239344	NC_021166.1	Ca_kabuli_chr07	41239344	TT	CC	1946900686
SNP_P4_102968_41239648	NC_021166.1	Ca_kabuli_chr07	41239648	CC	AA	1946900688
SNP_P4_102969_41241233	NC_021166.1	Ca_kabuli_chr07	41241233	AA	CC	1946900690
SNP_P4_102970_41241255	NC_021166.1	Ca_kabuli_chr07	41241255	AA	GG	1946900692
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SNP_P4_102972_41241310	NC_021166.1	Ca_kabuli_chr07	41241310	AA	TT	1946900696
SNP_P4_102973_41249697	NC_021166.1	Ca_kabuli_chr07	41249697	AA	TT	1946900698
SNP_P4_102974_41249978	NC_021166.1	Ca_kabuli_chr07	41249978	GG	AA	1946900700
SNP_P4_102975_41249993	NC_021166.1	Ca_kabuli_chr07	41249993	CC	TT	1946900702
SNP_P4_102976_41250020	NC_021166.1	Ca_kabuli_chr07	41250020	AA	CC	1946900704
SNP_P4_102977_41250721	NC_021166.1	Ca_kabuli_chr07	41250721	GG	TT	1946900707
SNP_P4_102978_41250738	NC_021166.1	Ca_kabuli_chr07	41250738	AA	TT	1946900709
SNP_P4_102979_41250764	NC_021166.1	Ca_kabuli_chr07	41250764	GG	TT	1946900711
SNP_P4_102980_41250827	NC_021166.1	Ca_kabuli_chr07	41250827	GG	AA	1946900713

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_102982_41250856	NC_021166.1	Ca_kabuli_chr07	41250856	AA	CC	1946900717
SNP_P4_102983_41250944	NC_021166.1	Ca_kabuli_chr07	41250944	TT	CC	1946900719
SNP_P4_102984_41250968	NC_021166.1	Ca_kabuli_chr07	41250968	CC	GG	1946900721
SNP_P4_102985_41251003	NC_021166.1	Ca_kabuli_chr07	41251003	GG	TT	1946900723
SNP_P4_102986_41251026	NC_021166.1	Ca_kabuli_chr07	41251026	GG	AA	1946900725
SNP_P4_102987_41251044	NC_021166.1	Ca_kabuli_chr07	41251044	AA	TT	1946900727
SNP_P4_102988_41251119	NC_021166.1	Ca_kabuli_chr07	41251119	GG	AA	1946900729
SNP_P4_102989_41251125	NC_021166.1	Ca_kabuli_chr07	41251125	TT	AA	1946900731
SNP_P4_102990_41251132	NC_021166.1	Ca_kabuli_chr07	41251132	GG	CC	1946900733
SNP_P4_102991_41251242	NC_021166.1	Ca_kabuli_chr07	41251242	CC	TT	1946900735
SNP_P4_102993_41251296	NC_021166.1	Ca_kabuli_chr07	41251296	CC	AA	1946900737
SNP_P4_102994_41251325	NC_021166.1	Ca_kabuli_chr07	41251325	AA	GG	1946900739
SNP_P4_102995_41251349	NC_021166.1	Ca_kabuli_chr07	41251349	CC	AA	1946900741
SNP_P4_102996_41251402	NC_021166.1	Ca_kabuli_chr07	41251402	TT	CC	1946900743
SNP_P4_102997_41251406	NC_021166.1	Ca_kabuli_chr07	41251406	TT	GG	1946900745
SNP_P4_102998_41251418	NC_021166.1	Ca_kabuli_chr07	41251418	CC	GG	1946900748
SNP_P4_102999_41251471	NC_021166.1	Ca_kabuli_chr07	41251471	AA	TT	1946900750
SNP_P4_103000_41251476	NC_021166.1	Ca_kabuli_chr07	41251476	CC	TT	1946900752
SNP_P4_103001_41251528	NC_021166.1	Ca_kabuli_chr07	41251528	GG	AA	1946900754
SNP_P4_103002_41251594	NC_021166.1	Ca_kabuli_chr07	41251594	AA	GG	1946900756
SNP_P4_103003_41251673	NC_021166.1	Ca_kabuli_chr07	41251673	AA	GG	1946900758
SNP_P4_103004_41251684	NC_021166.1	Ca_kabuli_chr07	41251684	GG	AA	1946900760
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SNP_P4_103006_41251801	NC_021166.1	Ca_kabuli_chr07	41251801	GG	TT	1946900764
SNP_P4_103007_41251829	NC_021166.1	Ca_kabuli_chr07	41251829	TT	GG	1946900766
SNP_P4_103008_41251855	NC_021166.1	Ca_kabuli_chr07	41251855	CC	AA	1946900768
SNP_P4_103009_41251856	NC_021166.1	Ca_kabuli_chr07	41251856	AA	GG	1946900770
SNP_P4_103010_41251857	NC_021166.1	Ca_kabuli_chr07	41251857	GG	AA	1946900772
SNP_P4_103011_41251889	NC_021166.1	Ca_kabuli_chr07	41251889	TT	CC	1946900774
SNP_P4_103012_41251938	NC_021166.1	Ca_kabuli_chr07	41251938	GG	AA	1946900776
SNP_P4_103013_41251987	NC_021166.1	Ca_kabuli_chr07	41251987	CC	TT	1946900778
SNP_P4_103014_41252030	NC_021166.1	Ca_kabuli_chr07	41252030	CC	GG	1946900780
SNP_P4_103015_41252046	NC_021166.1	Ca_kabuli_chr07	41252046	TT	CC	1946900782
SNP_P4_103016_41252052	NC_021166.1	Ca_kabuli_chr07	41252052	GG	AA	1946900784
SNP_P4_103017_41252113	NC_021166.1	Ca_kabuli_chr07	41252113	GG	CC	1946900786
SNP_P4_103018_41252136	NC_021166.1	Ca_kabuli_chr07	41252136	CC	TT	1946900788
SNP_P4_103019_41252138	NC_021166.1	Ca_kabuli_chr07	41252138	CC	TT	1946900790
SNP_P4_103020_41252242	NC_021166.1	Ca_kabuli_chr07	41252242	CC	TT	1946900792
SNP_P4_103021_41252245	NC_021166.1	Ca_kabuli_chr07	41252245	GG	AA	1946900794
SNP_P4_103023_41252369	NC_021166.1	Ca_kabuli_chr07	41252369	CC	TT	1946900796
SNP_P4_103024_41252375	NC_021166.1	Ca_kabuli_chr07	41252375	TT	CC	1946900799

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_103026_41252488	NC_021166.1	Ca_kabuli_chr07	41252488	TT	CC	1946900803
SNP_P4_103027_41252636	NC_021166.1	Ca_kabuli_chr07	41252636	CC	TT	1946900805
SNP_P4_103028_41252660	NC_021166.1	Ca_kabuli_chr07	41252660	TT	AA	1946900807
SNP_P4_103029_41282557	NC_021166.1	Ca_kabuli_chr07	41282557	GG	AA	1946900809
SNP_P4_103030_41282702	NC_021166.1	Ca_kabuli_chr07	41282702	AA	GG	1946900811
SNP_P4_103031_41282709	NC_021166.1	Ca_kabuli_chr07	41282709	TT	CC	1946900813
SNP_P4_103032_41282755	NC_021166.1	Ca_kabuli_chr07	41282755	GG	AA	1946900815
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SNP_P4_103034_41282937	NC_021166.1	Ca_kabuli_chr07	41282937	TT	GG	1946900819
SNP_P4_103035_41282942	NC_021166.1	Ca_kabuli_chr07	41282942	TT	CC	1946900821
SNP_P4_103036_41297024	NC_021166.1	Ca_kabuli_chr07	41297024	TT	CC	1946900823
SNP_P4_103037_41309428	NC_021166.1	Ca_kabuli_chr07	41309428	GG	AA	1946900825
SNP_P4_103038_41309461	NC_021166.1	Ca_kabuli_chr07	41309461	TT	CC	1946900827
SNP_P4_103039_41309842	NC_021166.1	Ca_kabuli_chr07	41309842	AA	GG	1946900829
SNP_P4_103040_41315077	NC_021166.1	Ca_kabuli_chr07	41315077	CC	AA	1946900831
SNP_P4_103041_41322197	NC_021166.1	Ca_kabuli_chr07	41322197	GG	AA	1946900833
SNP_P4_103042_41322221	NC_021166.1	Ca_kabuli_chr07	41322221	GG	AA	1946900835
SNP_P4_103043_41322523	NC_021166.1	Ca_kabuli_chr07	41322523	CC	TT	1946900837
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SNP_P4_103045_41323041	NC_021166.1	Ca_kabuli_chr07	41323041	CC	TT	1946900841
SNP_P4_103046_41323058	NC_021166.1	Ca_kabuli_chr07	41323058	CC	TT	1946900843
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SNP_P4_103048_41323646	NC_021166.1	Ca_kabuli_chr07	41323646	AA	GG	1946900847
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SNP_P4_103050_41338963	NC_021166.1	Ca_kabuli_chr07	41338963	AA	CC	1946900851
SNP_P4_103051_41383381	NC_021166.1	Ca_kabuli_chr07	41383381	CC	GG	1946900853
SNP_P4_103053_41410866	NC_021166.1	Ca_kabuli_chr07	41410866	GG	AA	1946900855
SNP_P4_103054_41413971	NC_021166.1	Ca_kabuli_chr07	41413971	AA	GG	1946900857
SNP_P4_103055_41413974	NC_021166.1	Ca_kabuli_chr07	41413974	GG	CC	1946900859
SNP_P4_103056_41427942	NC_021166.1	Ca_kabuli_chr07	41427942	TT	GG	1946900861
SNP_P4_103057_41428121	NC_021166.1	Ca_kabuli_chr07	41428121	TT	CC	1946900864
SNP_P4_103058_41428801	NC_021166.1	Ca_kabuli_chr07	41428801	AA	GG	1946900866
SNP_P4_103059_41429052	NC_021166.1	Ca_kabuli_chr07	41429052	CC	TT	1946900868
SNP_P4_103062_41536460	NC_021166.1	Ca_kabuli_chr07	41536460	GG	CC	1946900870
SNP_P4_103064_41560961	NC_021166.1	Ca_kabuli_chr07	41560961	CC	TT	1946900872
SNP_P4_103065_41571998	NC_021166.1	Ca_kabuli_chr07	41571998	TT	AA	1946900874
SNP_P4_103067_41583522	NC_021166.1	Ca_kabuli_chr07	41583522	CC	GG	1946900876
SNP_P4_103068_41583908	NC_021166.1	Ca_kabuli_chr07	41583908	TT	GG	1946900878
SNP_P4_103069_41590649	NC_021166.1	Ca_kabuli_chr07	41590649	AA	GG	1946900880
SNP_P4_103070_41591408	NC_021166.1	Ca_kabuli_chr07	41591408	AA	TT	1946900882
SNP_P4_103071_41612299	NC_021166.1	Ca_kabuli_chr07	41612299	TT	GG	1946900884

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_103073_41612673	NC_021166.1	Ca_kabuli_chr07	41612673	TT	AA	1946900888
SNP_P4_103074_41615022	NC_021166.1	Ca_kabuli_chr07	41615022	AA	TT	1946900890
SNP_P4_103075_41635908	NC_021166.1	Ca_kabuli_chr07	41635908	CC	TT	1946900892
SNP_P4_103076_41659708	NC_021166.1	Ca_kabuli_chr07	41659708	TT	CC	1946900894
SNP_P4_103077_41683775	NC_021166.1	Ca_kabuli_chr07	41683775	CC	TT	1946900896
SNP_P4_103078_41683812	NC_021166.1	Ca_kabuli_chr07	41683812	AA	GG	1946900899
SNP_P4_103079_41724289	NC_021166.1	Ca_kabuli_chr07	41724289	GG	AA	1946900901
SNP_P4_103080_41724298	NC_021166.1	Ca_kabuli_chr07	41724298	AA	GG	1946900903
SNP_P4_103081_41724339	NC_021166.1	Ca_kabuli_chr07	41724339	GG	AA	1946900905
SNP_P4_103082_41732190	NC_021166.1	Ca_kabuli_chr07	41732190	AA	GG	1946900907
SNP_P4_103083_41735840	NC_021166.1	Ca_kabuli_chr07	41735840	AA	CC	1946900909
SNP_P4_103084_41735880	NC_021166.1	Ca_kabuli_chr07	41735880	CC	GG	1946900911
SNP_P4_103085_41735886	NC_021166.1	Ca_kabuli_chr07	41735886	TT	GG	1946900913
SNP_P4_103086_41735893	NC_021166.1	Ca_kabuli_chr07	41735893	GG	AA	1946900915
SNP_P4_103089_41806330	NC_021166.1	Ca_kabuli_chr07	41806330	TT	GG	1946900917
SNP_P4_103090_41806348	NC_021166.1	Ca_kabuli_chr07	41806348	CC	TT	1946900919
SNP_P4_103091_41815417	NC_021166.1	Ca_kabuli_chr07	41815417	CC	TT	1946900921
SNP_P4_103093_41875909	NC_021166.1	Ca_kabuli_chr07	41875909	CC	TT	1946900923
SNP_P4_103094_41917479	NC_021166.1	Ca_kabuli_chr07	41917479	AA	GG	1946900925
SNP_P4_103095_41936260	NC_021166.1	Ca_kabuli_chr07	41936260	TT	CC	1946900927
SNP_P4_103096_41948621	NC_021166.1	Ca_kabuli_chr07	41948621	AA	GG	1946900929
SNP_P4_103097_41958285	NC_021166.1	Ca_kabuli_chr07	41958285	AA	GG	1946900931
SNP_P4_103098_41967080	NC_021166.1	Ca_kabuli_chr07	41967080	AA	CC	1946900933
SNP_P4_103099_41967084	NC_021166.1	Ca_kabuli_chr07	41967084	AA	CC	1946900935
SNP_P4_103100_41985046	NC_021166.1	Ca_kabuli_chr07	41985046	AA	CC	1946900937
SNP_P4_103101_41985559	NC_021166.1	Ca_kabuli_chr07	41985559	AA	TT	1946900939
SNP_P4_103102_41985594	NC_021166.1	Ca_kabuli_chr07	41985594	GG	AA	1946900941
SNP_P4_103103_41986061	NC_021166.1	Ca_kabuli_chr07	41986061	GG	TT	1946900943
SNP_P4_103104_41994380	NC_021166.1	Ca_kabuli_chr07	41994380	AA	CC	1946900945
SNP_P4_103105_41994381	NC_021166.1	Ca_kabuli_chr07	41994381	AA	CC	1946900947
SNP_P4_103106_42022248	NC_021166.1	Ca_kabuli_chr07	42022248	GG	TT	1946900949
SNP_P4_103107_42025365	NC_021166.1	Ca_kabuli_chr07	42025365	GG	TT	1946900951
SNP_P4_103109_42086273	NC_021166.1	Ca_kabuli_chr07	42086273	CC	AA	1946900953
SNP_P4_103110_42086959	NC_021166.1	Ca_kabuli_chr07	42086959	TT	CC	1946900955
SNP_P4_103111_42091451	NC_021166.1	Ca_kabuli_chr07	42091451	CC	TT	1946900957
SNP_P4_103112_42092632	NC_021166.1	Ca_kabuli_chr07	42092632	AA	GG	1946900959
SNP_P4_103113_42092652	NC_021166.1	Ca_kabuli_chr07	42092652	GG	CC	1946900961
SNP_P4_103114_42092700	NC_021166.1	Ca_kabuli_chr07	42092700	CC	TT	1946900963
SNP_P4_103115_42092701	NC_021166.1	Ca_kabuli_chr07	42092701	AA	GG	1946900965
SNP_P4_103116_42092708	NC_021166.1	Ca_kabuli_chr07	42092708	CC	TT	1946900967
SNP_P4_103117_42092733	NC_021166.1	Ca_kabuli_chr07	42092733	AA	CC	1946900969

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_103119_42206540	NC_021166.1	Ca_kabuli_chr07	42206540	TT	CC	1946900973
SNP_P4_103120_42211203	NC_021166.1	Ca_kabuli_chr07	42211203	TT	CC	1946900975
SNP_P4_103121_42211255	NC_021166.1	Ca_kabuli_chr07	42211255	TT	CC	1946900976
SNP_P4_103122_42221295	NC_021166.1	Ca_kabuli_chr07	42221295	CC	GG	1946900978
SNP_P4_103123_42240335	NC_021166.1	Ca_kabuli_chr07	42240335	TT	AA	1946900980
SNP_P4_103124_42240336	NC_021166.1	Ca_kabuli_chr07	42240336	TT	AA	1946900982
SNP_P4_103125_42240431	NC_021166.1	Ca_kabuli_chr07	42240431	CC	GG	1946900984
SNP_P4_103126_42240432	NC_021166.1	Ca_kabuli_chr07	42240432	TT	CC	1946900986
SNP_P4_103127_42261222	NC_021166.1	Ca_kabuli_chr07	42261222	TT	CC	1946900988
SNP_P4_103128_42262063	NC_021166.1	Ca_kabuli_chr07	42262063	CC	TT	1946900990
SNP_P4_103130_42307564	NC_021166.1	Ca_kabuli_chr07	42307564	GG	AA	1946900992
SNP_P4_103131_42307660	NC_021166.1	Ca_kabuli_chr07	42307660	GG	AA	1946900994
SNP_P4_103132_42307801	NC_021166.1	Ca_kabuli_chr07	42307801	TT	CC	1946900996
SNP_P4_103133_42320142	NC_021166.1	Ca_kabuli_chr07	42320142	TT	GG	1946900998
SNP_P4_103135_42344723	NC_021166.1	Ca_kabuli_chr07	42344723	AA	GG	1946901000
SNP_P4_103136_42344727	NC_021166.1	Ca_kabuli_chr07	42344727	AA	CC	1946901002
SNP_P4_103137_42344765	NC_021166.1	Ca_kabuli_chr07	42344765	AA	GG	1946901004
SNP_P4_103138_42344801	NC_021166.1	Ca_kabuli_chr07	42344801	AA	GG	1946901006
SNP_P4_103139_42344815	NC_021166.1	Ca_kabuli_chr07	42344815	TT	CC	1946901008
SNP_P4_103140_42344960	NC_021166.1	Ca_kabuli_chr07	42344960	GG	TT	1946901010
SNP_P4_103141_42345084	NC_021166.1	Ca_kabuli_chr07	42345084	AA	TT	1946901012
SNP_P4_103142_42345086	NC_021166.1	Ca_kabuli_chr07	42345086	GG	AA	1946901015
SNP_P4_103143_42345154	NC_021166.1	Ca_kabuli_chr07	42345154	CC	TT	1946901017
SNP_P4_103144_42350995	NC_021166.1	Ca_kabuli_chr07	42350995	AA	TT	1946901019
SNP_P4_103145_42352084	NC_021166.1	Ca_kabuli_chr07	42352084	AA	GG	1946901021
SNP_P4_103146_42352144	NC_021166.1	Ca_kabuli_chr07	42352144	CC	GG	1946901023
SNP_P4_103147_42352201	NC_021166.1	Ca_kabuli_chr07	42352201	AA	CC	1946901025
SNP_P4_103148_42354221	NC_021166.1	Ca_kabuli_chr07	42354221	CC	TT	1946901027
SNP_P4_103149_42354227	NC_021166.1	Ca_kabuli_chr07	42354227	GG	AA	1946901029
SNP_P4_103150_42355944	NC_021166.1	Ca_kabuli_chr07	42355944	CC	TT	1946901031
SNP_P4_103151_42356252	NC_021166.1	Ca_kabuli_chr07	42356252	TT	GG	1946901033
SNP_P4_103152_42356367	NC_021166.1	Ca_kabuli_chr07	42356367	AA	GG	1946901035
SNP_P4_103153_42356374	NC_021166.1	Ca_kabuli_chr07	42356374	AA	GG	1946901037
SNP_P4_103154_42356413	NC_021166.1	Ca_kabuli_chr07	42356413	GG	CC	1946901040
SNP_P4_103155_42356427	NC_021166.1	Ca_kabuli_chr07	42356427	GG	TT	1946901042
SNP_P4_103156_42356433	NC_021166.1	Ca_kabuli_chr07	42356433	TT	CC	1946901044
SNP_P4_103157_42356445	NC_021166.1	Ca_kabuli_chr07	42356445	GG	AA	1946901046
SNP_P4_103159_42356731	NC_021166.1	Ca_kabuli_chr07	42356731	CC	TT	1946901048
SNP_P4_103160_42356758	NC_021166.1	Ca_kabuli_chr07	42356758	CC	TT	1946901050
SNP_P4_103161_42357018	NC_021166.1	Ca_kabuli_chr07	42357018	GG	AA	1946901052
SNP_P4_103162_42357046	NC_021166.1	Ca_kabuli_chr07	42357046	AA	GG	1946901054

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_103164_42357087	NC_021166.1	Ca_kabuli_chr07	42357087	GG	AA	1946901058
SNP_P4_103165_42358193	NC_021166.1	Ca_kabuli_chr07	42358193	TT	GG	1946901060
SNP_P4_103166_42358220	NC_021166.1	Ca_kabuli_chr07	42358220	GG	TT	1946901062
SNP_P4_103167_42358258	NC_021166.1	Ca_kabuli_chr07	42358258	AA	GG	1946901064
SNP_P4_103168_42358280	NC_021166.1	Ca_kabuli_chr07	42358280	AA	GG	1946901066
SNP_P4_103169_42358339	NC_021166.1	Ca_kabuli_chr07	42358339	AA	GG	1946901068
SNP_P4_103171_42358593	NC_021166.1	Ca_kabuli_chr07	42358593	GG	AA	1946901070
SNP_P4_103172_42361476	NC_021166.1	Ca_kabuli_chr07	42361476	GG	CC	1946901072
SNP_P4_103173_42363897	NC_021166.1	Ca_kabuli_chr07	42363897	AA	GG	1946901074
SNP_P4_103174_42368360	NC_021166.1	Ca_kabuli_chr07	42368360	CC	TT	1946901076
SNP_P4_103175_42384580	NC_021166.1	Ca_kabuli_chr07	42384580	TT	CC	1946901078
SNP_P4_103176_42384635	NC_021166.1	Ca_kabuli_chr07	42384635	TT	AA	1946901080
SNP_P4_103178_42384932	NC_021166.1	Ca_kabuli_chr07	42384932	CC	TT	1946901082
SNP_P4_103179_42385007	NC_021166.1	Ca_kabuli_chr07	42385007	CC	AA	1946901084
SNP_P4_103180_42385073	NC_021166.1	Ca_kabuli_chr07	42385073	AA	GG	1946901086
SNP_P4_103181_42392881	NC_021166.1	Ca_kabuli_chr07	42392881	CC	TT	1946901088
SNP_P4_103182_42392972	NC_021166.1	Ca_kabuli_chr07	42392972	GG	AA	1946901090
SNP_P4_103183_42393066	NC_021166.1	Ca_kabuli_chr07	42393066	GG	AA	1946901092
SNP_P4_103184_42393111	NC_021166.1	Ca_kabuli_chr07	42393111	TT	CC	1946901095
SNP_P4_103185_42393133	NC_021166.1	Ca_kabuli_chr07	42393133	GG	AA	1946901097
SNP_P4_103186_42393162	NC_021166.1	Ca_kabuli_chr07	42393162	TT	AA	1946901099
SNP_P4_103187_42393193	NC_021166.1	Ca_kabuli_chr07	42393193	AA	GG	1946901101
SNP_P4_103188_42396638	NC_021166.1	Ca_kabuli_chr07	42396638	AA	TT	1946901103
SNP_P4_103189_42396716	NC_021166.1	Ca_kabuli_chr07	42396716	CC	TT	1946901105
SNP_P4_103190_42396759	NC_021166.1	Ca_kabuli_chr07	42396759	GG	AA	1946901107
SNP_P4_103191_42396787	NC_021166.1	Ca_kabuli_chr07	42396787	TT	AA	1946901109
SNP_P4_103192_42397002	NC_021166.1	Ca_kabuli_chr07	42397002	TT	CC	1946901111
SNP_P4_103193_42397006	NC_021166.1	Ca_kabuli_chr07	42397006	AA	TT	1946901113
SNP_P4_103194_42397049	NC_021166.1	Ca_kabuli_chr07	42397049	TT	CC	1946901115
SNP_P4_103195_42397050	NC_021166.1	Ca_kabuli_chr07	42397050	GG	AA	1946901117
SNP_P4_103196_42399197	NC_021166.1	Ca_kabuli_chr07	42399197	AA	GG	1946901120
SNP_P4_103197_42399227	NC_021166.1	Ca_kabuli_chr07	42399227	GG	AA	1946901122
SNP_P4_103198_42399249	NC_021166.1	Ca_kabuli_chr07	42399249	GG	AA	1946901124
SNP_P4_103199_42399287	NC_021166.1	Ca_kabuli_chr07	42399287	CC	TT	1946901126
SNP_P4_103200_42399500	NC_021166.1	Ca_kabuli_chr07	42399500	TT	CC	1946901128
SNP_P4_103201_42404039	NC_021166.1	Ca_kabuli_chr07	42404039	AA	GG	1946901130
SNP_P4_103202_42404044	NC_021166.1	Ca_kabuli_chr07	42404044	GG	AA	1946901132
SNP_P4_103203_42404056	NC_021166.1	Ca_kabuli_chr07	42404056	GG	AA	1946901134
SNP_P4_103204_42404629	NC_021166.1	Ca_kabuli_chr07	42404629	TT	CC	1946901136
SNP_P4_103205_42409900	NC_021166.1	Ca_kabuli_chr07	42409900	GG	AA	1946901138
SNP_P4_103206_42409905	NC_021166.1	Ca_kabuli_chr07	42409905	CC	TT	1946901140

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_103208_42414904	NC_021166.1	Ca_kabuli_chr07	42414904	CC	AA	1946901144
SNP_P4_103209_42420966	NC_021166.1	Ca_kabuli_chr07	42420966	AA	CC	1946901146
SNP_P4_103210_42427832	NC_021166.1	Ca_kabuli_chr07	42427832	TT	CC	1946901148
SNP_P4_103211_42428125	NC_021166.1	Ca_kabuli_chr07	42428125	GG	AA	1946901150
SNP_P4_103212_42441634	NC_021166.1	Ca_kabuli_chr07	42441634	AA	CC	1946901152
SNP_P4_103213_42442033	NC_021166.1	Ca_kabuli_chr07	42442033	TT	CC	1946901154
SNP_P4_103214_42442055	NC_021166.1	Ca_kabuli_chr07	42442055	AA	CC	1946901156
SNP_P4_103215_42458446	NC_021166.1	Ca_kabuli_chr07	42458446	AA	GG	1946901159
SNP_P4_103216_42458449	NC_021166.1	Ca_kabuli_chr07	42458449	TT	CC	1946901161
SNP_P4_103217_42458450	NC_021166.1	Ca_kabuli_chr07	42458450	TT	CC	1946901163
SNP_P4_103218_42458457	NC_021166.1	Ca_kabuli_chr07	42458457	TT	CC	1946901165
SNP_P4_103219_42458474	NC_021166.1	Ca_kabuli_chr07	42458474	GG	AA	1946901167
SNP_P4_103220_42458486	NC_021166.1	Ca_kabuli_chr07	42458486	AA	GG	1946901169
SNP_P4_103221_42459709	NC_021166.1	Ca_kabuli_chr07	42459709	AA	CC	1946901171
SNP_P4_103222_42459735	NC_021166.1	Ca_kabuli_chr07	42459735	TT	GG	1946901173
SNP_P4_103223_42459736	NC_021166.1	Ca_kabuli_chr07	42459736	AA	GG	1946901175
SNP_P4_103224_42459762	NC_021166.1	Ca_kabuli_chr07	42459762	AA	GG	1946901177
SNP_P4_103225_42459775	NC_021166.1	Ca_kabuli_chr07	42459775	TT	AA	1946901179
SNP_P4_103226_42459781	NC_021166.1	Ca_kabuli_chr07	42459781	GG	AA	1946901181
SNP_P4_103227_42461748	NC_021166.1	Ca_kabuli_chr07	42461748	CC	GG	1946901183
SNP_P4_103228_42463342	NC_021166.1	Ca_kabuli_chr07	42463342	TT	CC	1946901185
SNP_P4_103229_42465387	NC_021166.1	Ca_kabuli_chr07	42465387	GG	TT	1946901187
SNP_P4_103231_42472715	NC_021166.1	Ca_kabuli_chr07	42472715	CC	TT	1946901189
SNP_P4_103232_42472716	NC_021166.1	Ca_kabuli_chr07	42472716	AA	TT	1946901191
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SNP_P4_103234_42472718	NC_021166.1	Ca_kabuli_chr07	42472718	AA	CC	1946901195
SNP_P4_103235_42472724	NC_021166.1	Ca_kabuli_chr07	42472724	AA	TT	1946901197
SNP_P4_103236_42472726	NC_021166.1	Ca_kabuli_chr07	42472726	AA	CC	1946901199
SNP_P4_103237_42472727	NC_021166.1	Ca_kabuli_chr07	42472727	TT	CC	1946901201
SNP_P4_103238_42472728	NC_021166.1	Ca_kabuli_chr07	42472728	AA	CC	1946901203
SNP_P4_103239_42472808	NC_021166.1	Ca_kabuli_chr07	42472808	GG	TT	1946901205
SNP_P4_103240_42472858	NC_021166.1	Ca_kabuli_chr07	42472858	CC	AA	1946901207
SNP_P4_103241_42472964	NC_021166.1	Ca_kabuli_chr07	42472964	TT	CC	1946901209
SNP_P4_103242_42473067	NC_021166.1	Ca_kabuli_chr07	42473067	TT	GG	1946901211
SNP_P4_103243_42473191	NC_021166.1	Ca_kabuli_chr07	42473191	TT	GG	1946901213
SNP_P4_103244_42473232	NC_021166.1	Ca_kabuli_chr07	42473232	AA	TT	1946901215
SNP_P4_103245_42473442	NC_021166.1	Ca_kabuli_chr07	42473442	TT	CC	1946901217
SNP_P4_103246_42473528	NC_021166.1	Ca_kabuli_chr07	42473528	TT	GG	1946901219
SNP_P4_103247_42473536	NC_021166.1	Ca_kabuli_chr07	42473536	TT	CC	1946901221
SNP_P4_103248_42473568	NC_021166.1	Ca_kabuli_chr07	42473568	GG	TT	1946901223
SNP_P4_103249_42473602	NC_021166.1	Ca_kabuli_chr07	42473602	CC	GG	1946901225

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_103251_42473776	NC_021166.1	Ca_kabuli_chr07	42473776	TT	CC	1946901229
SNP_P4_103252_42473864	NC_021166.1	Ca_kabuli_chr07	42473864	CC	TT	1946901231
SNP_P4_103253_42473865	NC_021166.1	Ca_kabuli_chr07	42473865	AA	GG	1946901234
SNP_P4_103255_42474661	NC_021166.1	Ca_kabuli_chr07	42474661	GG	CC	1946901236
SNP_P4_103256_42474701	NC_021166.1	Ca_kabuli_chr07	42474701	CC	TT	1946901238
SNP_P4_103257_42474939	NC_021166.1	Ca_kabuli_chr07	42474939	TT	AA	1946901240
SNP_P4_103258_42474957	NC_021166.1	Ca_kabuli_chr07	42474957	AA	GG	1946901242
SNP_P4_103259_42474960	NC_021166.1	Ca_kabuli_chr07	42474960	AA	TT	1946901244
SNP_P4_103260_42475009	NC_021166.1	Ca_kabuli_chr07	42475009	AA	TT	1946901246
SNP_P4_103261_42475018	NC_021166.1	Ca_kabuli_chr07	42475018	TT	AA	1946901248
SNP_P4_103262_42475246	NC_021166.1	Ca_kabuli_chr07	42475246	TT	CC	1946901250
SNP_P4_103263_42475278	NC_021166.1	Ca_kabuli_chr07	42475278	TT	CC	1946901252
SNP_P4_103264_42475284	NC_021166.1	Ca_kabuli_chr07	42475284	GG	TT	1946901254
SNP_P4_103265_42475361	NC_021166.1	Ca_kabuli_chr07	42475361	GG	CC	1946901256
SNP_P4_103266_42475373	NC_021166.1	Ca_kabuli_chr07	42475373	GG	AA	1946901258
SNP_P4_103267_42475390	NC_021166.1	Ca_kabuli_chr07	42475390	TT	AA	1946901260
SNP_P4_103268_42475442	NC_021166.1	Ca_kabuli_chr07	42475442	GG	AA	1946901262
SNP_P4_103269_42475444	NC_021166.1	Ca_kabuli_chr07	42475444	AA	TT	1946901264
SNP_P4_103270_42475501	NC_021166.1	Ca_kabuli_chr07	42475501	TT	CC	1946901266
SNP_P4_103271_42475571	NC_021166.1	Ca_kabuli_chr07	42475571	CC	GG	1946901268
SNP_P4_103272_42475693	NC_021166.1	Ca_kabuli_chr07	42475693	AA	GG	1946901271
SNP_P4_103273_42475738	NC_021166.1	Ca_kabuli_chr07	42475738	GG	TT	1946901273
SNP_P4_103274_42475747	NC_021166.1	Ca_kabuli_chr07	42475747	TT	CC	1946901275
SNP_P4_103275_42475750	NC_021166.1	Ca_kabuli_chr07	42475750	TT	GG	1946901277
SNP_P4_103276_42475773	NC_021166.1	Ca_kabuli_chr07	42475773	TT	AA	1946901279
SNP_P4_103277_42475776	NC_021166.1	Ca_kabuli_chr07	42475776	CC	GG	1946901281
SNP_P4_103278_42475831	NC_021166.1	Ca_kabuli_chr07	42475831	GG	AA	1946901283
SNP_P4_103280_42475863	NC_021166.1	Ca_kabuli_chr07	42475863	CC	AA	1946901285
SNP_P4_103281_42475887	NC_021166.1	Ca_kabuli_chr07	42475887	GG	AA	1946901287
SNP_P4_103282_42475889	NC_021166.1	Ca_kabuli_chr07	42475889	CC	AA	1946901289
SNP_P4_103283_42475891	NC_021166.1	Ca_kabuli_chr07	42475891	AA	GG	1946901291
SNP_P4_103284_42475934	NC_021166.1	Ca_kabuli_chr07	42475934	CC	GG	1946901293
SNP_P4_103285_42475975	NC_021166.1	Ca_kabuli_chr07	42475975	CC	GG	1946901295
SNP_P4_103286_42475988	NC_021166.1	Ca_kabuli_chr07	42475988	GG	AA	1946901297
SNP_P4_103287_42476051	NC_021166.1	Ca_kabuli_chr07	42476051	TT	GG	1946901299
SNP_P4_103288_42476153	NC_021166.1	Ca_kabuli_chr07	42476153	CC	TT	1946901301
SNP_P4_103289_42476155	NC_021166.1	Ca_kabuli_chr07	42476155	GG	TT	1946901303
SNP_P4_103290_42476198	NC_021166.1	Ca_kabuli_chr07	42476198	CC	TT	1946901305
SNP_P4_103291_42476201	NC_021166.1	Ca_kabuli_chr07	42476201	GG	AA	1946901307
SNP_P4_103292_42476217	NC_021166.1	Ca_kabuli_chr07	42476217	CC	TT	1946901309
SNP_P4_103293_42476252	NC_021166.1	Ca_kabuli_chr07	42476252	GG	CC	1946901311

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_103294_42476319	NC_021166.1	Ca_kabuli_chr07	42476319	TT	AA	1946901313
SNP_P4_103295_42476354	NC_021166.1	Ca_kabuli_chr07	42476354	CC	AA	1946901315
SNP_P4_103296_42477886	NC_021166.1	Ca_kabuli_chr07	42477886	AA	GG	1946901317
SNP_P4_103297_42480813	NC_021166.1	Ca_kabuli_chr07	42480813	CC	TT	1946901319
SNP_P4_103298_42495177	NC_021166.1	Ca_kabuli_chr07	42495177	CC	TT	1946901320
SNP_P4_103300_42497070	NC_021166.1	Ca_kabuli_chr07	42497070	GG	AA	1946901322
SNP_P4_103301_42497361	NC_021166.1	Ca_kabuli_chr07	42497361	CC	GG	1946901324
SNP_P4_103302_42497362	NC_021166.1	Ca_kabuli_chr07	42497362	AA	GG	1946901326
SNP_P4_103303_42497377	NC_021166.1	Ca_kabuli_chr07	42497377	GG	AA	1946901329
SNP_P4_103304_42497703	NC_021166.1	Ca_kabuli_chr07	42497703	GG	AA	1946901331
SNP_P4_103306_42503416	NC_021166.1	Ca_kabuli_chr07	42503416	AA	TT	1946901333
SNP_P4_103307_42518211	NC_021166.1	Ca_kabuli_chr07	42518211	TT	AA	1946901335
SNP_P4_103308_42529888	NC_021166.1	Ca_kabuli_chr07	42529888	TT	GG	1946901337
SNP_P4_103309_42540536	NC_021166.1	Ca_kabuli_chr07	42540536	TT	GG	1946901339
SNP_P4_103310_42541256	NC_021166.1	Ca_kabuli_chr07	42541256	CC	TT	1946901341
SNP_P4_103311_42541323	NC_021166.1	Ca_kabuli_chr07	42541323	AA	GG	1946901343
SNP_P4_103312_42541332	NC_021166.1	Ca_kabuli_chr07	42541332	AA	TT	1946901345
SNP_P4_103313_42541333	NC_021166.1	Ca_kabuli_chr07	42541333	TT	GG	1946901347
SNP_P4_103314_42541372	NC_021166.1	Ca_kabuli_chr07	42541372	AA	GG	1946901349
SNP_P4_103315_42558144	NC_021166.1	Ca_kabuli_chr07	42558144	TT	GG	1946901351
SNP_P4_103316_42558164	NC_021166.1	Ca_kabuli_chr07	42558164	CC	TT	1946901353
SNP_P4_103317_42558177	NC_021166.1	Ca_kabuli_chr07	42558177	GG	CC	1946901355
SNP_P4_103318_42582733	NC_021166.1	Ca_kabuli_chr07	42582733	AA	TT	1946901357
SNP_P4_103319_42582737	NC_021166.1	Ca_kabuli_chr07	42582737	GG	AA	1946901360
SNP_P4_103320_42582804	NC_021166.1	Ca_kabuli_chr07	42582804	GG	AA	1946901362
SNP_P4_103321_42582811	NC_021166.1	Ca_kabuli_chr07	42582811	CC	TT	1946901364
SNP_P4_103322_42582897	NC_021166.1	Ca_kabuli_chr07	42582897	GG	AA	1946901366
SNP_P4_103323_42583147	NC_021166.1	Ca_kabuli_chr07	42583147	TT	CC	1946901368
SNP_P4_103324_42583173	NC_021166.1	Ca_kabuli_chr07	42583173	AA	TT	1946901370
SNP_P4_103325_42583319	NC_021166.1	Ca_kabuli_chr07	42583319	CC	TT	1946901372
SNP_P4_103326_42583322	NC_021166.1	Ca_kabuli_chr07	42583322	AA	TT	1946901374
SNP_P4_103327_42589438	NC_021166.1	Ca_kabuli_chr07	42589438	GG	AA	1946901376
SNP_P4_103328_42589454	NC_021166.1	Ca_kabuli_chr07	42589454	GG	TT	1946901378
SNP_P4_103329_42589474	NC_021166.1	Ca_kabuli_chr07	42589474	CC	TT	1946901380
SNP_P4_103330_42589497	NC_021166.1	Ca_kabuli_chr07	42589497	GG	AA	1946901382
SNP_P4_103332_42640168	NC_021166.1	Ca_kabuli_chr07	42640168	AA	GG	1946901384
SNP_P4_103333_42640169	NC_021166.1	Ca_kabuli_chr07	42640169	AA	CC	1946901386
SNP_P4_103334_42642963	NC_021166.1	Ca_kabuli_chr07	42642963	GG	AA	1946901388
SNP_P4_103335_42651825	NC_021166.1	Ca_kabuli_chr07	42651825	GG	AA	1946901390
SNP_P4_103336_42659605	NC_021166.1	Ca_kabuli_chr07	42659605	AA	GG	1946901392
SNP_P4_103338_42665153	NC_021166.1	Ca_kabuli_chr07	42665153	GG	AA	1946901394
SNP_P4_103339_42665158	NC_021166.1	Ca_kabuli_chr07	42665158	GG	TT	1946901396

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_103341_42665356	NC_021166.1	Ca_kabuli_chr07	42665356	GG	AA	1946901400
SNP_P4_103342_42711708	NC_021166.1	Ca_kabuli_chr07	42711708	CC	TT	1946901402
SNP_P4_103343_42733824	NC_021166.1	Ca_kabuli_chr07	42733824	CC	AA	1946901404
SNP_P4_103345_42743602	NC_021166.1	Ca_kabuli_chr07	42743602	CC	TT	1946901406
SNP_P4_103346_42744025	NC_021166.1	Ca_kabuli_chr07	42744025	AA	TT	1946901408
SNP_P4_103347_42746544	NC_021166.1	Ca_kabuli_chr07	42746544	CC	TT	1946901410
SNP_P4_103348_42746578	NC_021166.1	Ca_kabuli_chr07	42746578	CC	TT	1946901412
SNP_P4_103349_42746594	NC_021166.1	Ca_kabuli_chr07	42746594	AA	CC	1946901414
SNP_P4_103350_42746616	NC_021166.1	Ca_kabuli_chr07	42746616	TT	GG	1946901416
SNP_P4_103351_42746633	NC_021166.1	Ca_kabuli_chr07	42746633	CC	TT	1946901418
SNP_P4_103352_42746652	NC_021166.1	Ca_kabuli_chr07	42746652	GG	AA	1946901419
SNP_P4_103353_42746663	NC_021166.1	Ca_kabuli_chr07	42746663	GG	AA	1946901420
SNP_P4_103354_42746720	NC_021166.1	Ca_kabuli_chr07	42746720	TT	CC	1946901421
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SNP_P4_103356_42746928	NC_021166.1	Ca_kabuli_chr07	42746928	GG	AA	1946901423
SNP_P4_103357_42746979	NC_021166.1	Ca_kabuli_chr07	42746979	GG	TT	1946901424
SNP_P4_103358_42746993	NC_021166.1	Ca_kabuli_chr07	42746993	TT	CC	1946901425
SNP_P4_103359_42747075	NC_021166.1	Ca_kabuli_chr07	42747075	AA	GG	1946901427
SNP_P4_103361_42776503	NC_021166.1	Ca_kabuli_chr07	42776503	CC	TT	1946901429
SNP_P4_103362_42778468	NC_021166.1	Ca_kabuli_chr07	42778468	CC	TT	1946901431
SNP_P4_103363_42779249	NC_021166.1	Ca_kabuli_chr07	42779249	CC	TT	1946901433
SNP_P4_103364_42819726	NC_021166.1	Ca_kabuli_chr07	42819726	GG	AA	1946901435
SNP_P4_103365_42832397	NC_021166.1	Ca_kabuli_chr07	42832397	CC	TT	1946901437
SNP_P4_103366_42832433	NC_021166.1	Ca_kabuli_chr07	42832433	CC	TT	1946901439
SNP_P4_103367_42832435	NC_021166.1	Ca_kabuli_chr07	42832435	TT	GG	1946901441
SNP_P4_103368_42832449	NC_021166.1	Ca_kabuli_chr07	42832449	GG	AA	1946901443
SNP_P4_103369_42832481	NC_021166.1	Ca_kabuli_chr07	42832481	GG	TT	1946901445
SNP_P4_103370_42832505	NC_021166.1	Ca_kabuli_chr07	42832505	AA	TT	1946901447
SNP_P4_103371_42832509	NC_021166.1	Ca_kabuli_chr07	42832509	AA	GG	1946901449
SNP_P4_103372_42832550	NC_021166.1	Ca_kabuli_chr07	42832550	AA	GG	1946901451
SNP_P4_103374_42832865	NC_021166.1	Ca_kabuli_chr07	42832865	AA	CC	1946901453
SNP_P4_103375_42832868	NC_021166.1	Ca_kabuli_chr07	42832868	TT	CC	1946901455
SNP_P4_103376_42832933	NC_021166.1	Ca_kabuli_chr07	42832933	CC	TT	1946901457
SNP_P4_103377_42833041	NC_021166.1	Ca_kabuli_chr07	42833041	CC	TT	1946901459
SNP_P4_103378_42833078	NC_021166.1	Ca_kabuli_chr07	42833078	CC	TT	1946901461
SNP_P4_103379_42833080	NC_021166.1	Ca_kabuli_chr07	42833080	TT	GG	1946901463
SNP_P4_103380_42837269	NC_021166.1	Ca_kabuli_chr07	42837269	AA	TT	1946901465
SNP_P4_103381_42838616	NC_021166.1	Ca_kabuli_chr07	42838616	CC	TT	1946901467
SNP_P4_103382_42847269	NC_021166.1	Ca_kabuli_chr07	42847269	GG	TT	1946901469
SNP_P4_103383_42847270	NC_021166.1	Ca_kabuli_chr07	42847270	GG	CC	1946901471
SNP_P4_103384_42847285	NC_021166.1	Ca_kabuli_chr07	42847285	GG	CC	1946901473

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_103386_42848607	NC_021166.1	Ca_kabuli_chr07	42848607	CC	TT	1946901477
SNP_P4_103387_42848610	NC_021166.1	Ca_kabuli_chr07	42848610	TT	CC	1946901479
SNP_P4_103388_42866853	NC_021166.1	Ca_kabuli_chr07	42866853	CC	TT	1946901481
SNP_P4_103389_42870445	NC_021166.1	Ca_kabuli_chr07	42870445	CC	TT	1946901483
SNP_P4_103390_42901811	NC_021166.1	Ca_kabuli_chr07	42901811	TT	CC	1946901485
SNP_P4_103391_42902118	NC_021166.1	Ca_kabuli_chr07	42902118	CC	TT	1946901487
SNP_P4_103392_42902222	NC_021166.1	Ca_kabuli_chr07	42902222	TT	CC	1946901489
SNP_P4_103393_42915851	NC_021166.1	Ca_kabuli_chr07	42915851	GG	AA	1946901491
SNP_P4_103394_42918431	NC_021166.1	Ca_kabuli_chr07	42918431	CC	TT	1946901492
SNP_P4_103395_42918632	NC_021166.1	Ca_kabuli_chr07	42918632	AA	GG	1946901494
SNP_P4_103396_42918638	NC_021166.1	Ca_kabuli_chr07	42918638	GG	AA	1946901496
SNP_P4_103398_42922965	NC_021166.1	Ca_kabuli_chr07	42922965	GG	TT	1946901498
SNP_P4_103399_42923141	NC_021166.1	Ca_kabuli_chr07	42923141	AA	GG	1946901500
SNP_P4_103400_42923223	NC_021166.1	Ca_kabuli_chr07	42923223	CC	TT	1946901502
SNP_P4_103401_42927213	NC_021166.1	Ca_kabuli_chr07	42927213	GG	AA	1946901504
SNP_P4_103402_42931056	NC_021166.1	Ca_kabuli_chr07	42931056	AA	TT	1946901506
SNP_P4_103405_42955054	NC_021166.1	Ca_kabuli_chr07	42955054	GG	CC	1946901509
SNP_P4_103406_42973705	NC_021166.1	Ca_kabuli_chr07	42973705	GG	AA	1946901511
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SNP_P4_103410_43017809	NC_021166.1	Ca_kabuli_chr07	43017809	CC	TT	1946901517
SNP_P4_103411_43032421	NC_021166.1	Ca_kabuli_chr07	43032421	GG	AA	1946901519
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SNP_P4_103415_43091460	NC_021166.1	Ca_kabuli_chr07	43091460	AA	TT	1946901528
SNP_P4_103416_43137205	NC_021166.1	Ca_kabuli_chr07	43137205	CC	TT	1946901530
SNP_P4_103417_43145428	NC_021166.1	Ca_kabuli_chr07	43145428	TT	GG	1946901532
SNP_P4_103418_43168368	NC_021166.1	Ca_kabuli_chr07	43168368	TT	GG	1946901534
SNP_P4_103419_43170707	NC_021166.1	Ca_kabuli_chr07	43170707	GG	AA	1946901536
SNP_P4_103420_43175160	NC_021166.1	Ca_kabuli_chr07	43175160	CC	GG	1946901538
SNP_P4_103421_43177203	NC_021166.1	Ca_kabuli_chr07	43177203	AA	GG	1946901540
SNP_P4_103422_43208225	NC_021166.1	Ca_kabuli_chr07	43208225	CC	TT	1946901542
SNP_P4_103423_43208347	NC_021166.1	Ca_kabuli_chr07	43208347	CC	AA	1946901544
SNP_P4_103425_43209304	NC_021166.1	Ca_kabuli_chr07	43209304	TT	CC	1946901547
SNP_P4_103427_43210166	NC_021166.1	Ca_kabuli_chr07	43210166	AA	CC	1946901549
SNP_P4_103428_43210597	NC_021166.1	Ca_kabuli_chr07	43210597	AA	GG	1946901551
SNP_P4_103429_43210967	NC_021166.1	Ca_kabuli_chr07	43210967	CC	TT	1946901553
SNP_P4_103430_43232349	NC_021166.1	Ca_kabuli_chr07	43232349	CC	TT	1946901555
SNP_P4_103431_43232379	NC_021166.1	Ca_kabuli_chr07	43232379	GG	AA	1946901557
SNP_P4_103432_43232770	NC_021166.1	Ca_kabuli_chr07	43232770	TT	AA	1946901559

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_103434_43248277	NC_021166.1	Ca_kabuli_chr07	43248277	GG	AA	1946901564
SNP_P4_103435_43262230	NC_021166.1	Ca_kabuli_chr07	43262230	GG	CC	1946901566
SNP_P4_103436_43262277	NC_021166.1	Ca_kabuli_chr07	43262277	CC	AA	1946901568
SNP_P4_103437_43262321	NC_021166.1	Ca_kabuli_chr07	43262321	GG	AA	1946901570
SNP_P4_103438_43262335	NC_021166.1	Ca_kabuli_chr07	43262335	CC	TT	1946901572
SNP_P4_103439_43262351	NC_021166.1	Ca_kabuli_chr07	43262351	GG	TT	1946901574
SNP_P4_103440_43269599	NC_021166.1	Ca_kabuli_chr07	43269599	CC	AA	1946901576
SNP_P4_103441_43289195	NC_021166.1	Ca_kabuli_chr07	43289195	TT	AA	1946901578
SNP_P4_103442_43290737	NC_021166.1	Ca_kabuli_chr07	43290737	GG	AA	1946901580
SNP_P4_103443_43290757	NC_021166.1	Ca_kabuli_chr07	43290757	TT	CC	1946901582
SNP_P4_103444_43291082	NC_021166.1	Ca_kabuli_chr07	43291082	TT	AA	1946901584
SNP_P4_103445_43311147	NC_021166.1	Ca_kabuli_chr07	43311147	CC	TT	1946901586
SNP_P4_103446_43311173	NC_021166.1	Ca_kabuli_chr07	43311173	TT	CC	1946901588
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SNP_P4_103448_43311242	NC_021166.1	Ca_kabuli_chr07	43311242	GG	AA	1946901592
SNP_P4_103449_43311278	NC_021166.1	Ca_kabuli_chr07	43311278	GG	AA	1946901594
SNP_P4_103450_43332208	NC_021166.1	Ca_kabuli_chr07	43332208	TT	CC	1946901596
SNP_P4_103451_43333366	NC_021166.1	Ca_kabuli_chr07	43333366	CC	TT	1946901599
SNP_P4_103452_43333388	NC_021166.1	Ca_kabuli_chr07	43333388	CC	TT	1946901601
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SNP_P4_103455_43333584	NC_021166.1	Ca_kabuli_chr07	43333584	GG	AA	1946901606
SNP_P4_103456_43335938	NC_021166.1	Ca_kabuli_chr07	43335938	GG	AA	1946901608
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SNP_P4_103460_43375617	NC_021166.1	Ca_kabuli_chr07	43375617	GG	AA	1946901614
SNP_P4_103461_43381021	NC_021166.1	Ca_kabuli_chr07	43381021	CC	AA	1946901616
SNP_P4_103462_43383016	NC_021166.1	Ca_kabuli_chr07	43383016	TT	CC	1946901618
SNP_P4_103463_43383049	NC_021166.1	Ca_kabuli_chr07	43383049	TT	AA	1946901620
SNP_P4_103464_43394929	NC_021166.1	Ca_kabuli_chr07	43394929	CC	TT	1946901622
SNP_P4_103465_43394988	NC_021166.1	Ca_kabuli_chr07	43394988	AA	GG	1946901624
SNP_P4_103466_43394991	NC_021166.1	Ca_kabuli_chr07	43394991	GG	CC	1946901626
SNP_P4_103467_43395011	NC_021166.1	Ca_kabuli_chr07	43395011	TT	AA	1946901628
SNP_P4_103468_43434119	NC_021166.1	Ca_kabuli_chr07	43434119	TT	GG	1946901630
SNP_P4_103469_43434499	NC_021166.1	Ca_kabuli_chr07	43434499	AA	TT	1946901632
SNP_P4_103470_43435051	NC_021166.1	Ca_kabuli_chr07	43435051	TT	CC	1946901634
SNP_P4_103471_43435069	NC_021166.1	Ca_kabuli_chr07	43435069	AA	GG	1946901636
SNP_P4_103472_43437275	NC_021166.1	Ca_kabuli_chr07	43437275	TT	GG	1946901638
SNP_P4_103473_43437340	NC_021166.1	Ca_kabuli_chr07	43437340	AA	CC	1946901640
SNP_P4_103474_43449005	NC_021166.1	Ca_kabuli_chr07	43449005	GG	AA	1946901642
SNP_P4_103475_43449090	NC_021166.1	Ca_kabuli_chr07	43449090	GG	AA	1946901644

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_103476_43449100	NC_021166.1	Ca_kabuli_chr07	43449100	CC	TT	1946901646
SNP_P4_103477_43457789	NC_021166.1	Ca_kabuli_chr07	43457789	AA	TT	1946901648
SNP_P4_103478_43469122	NC_021166.1	Ca_kabuli_chr07	43469122	AA	CC	1946901650
SNP_P4_103479_43476745	NC_021166.1	Ca_kabuli_chr07	43476745	TT	CC	1946901652
SNP_P4_103480_43482969	NC_021166.1	Ca_kabuli_chr07	43482969	AA	GG	1946901654
SNP_P4_103481_43483199	NC_021166.1	Ca_kabuli_chr07	43483199	GG	TT	1946901656
SNP_P4_103482_43483233	NC_021166.1	Ca_kabuli_chr07	43483233	TT	GG	1946901658
SNP_P4_103483_43485017	NC_021166.1	Ca_kabuli_chr07	43485017	GG	AA	1946901660
SNP_P4_103484_43500675	NC_021166.1	Ca_kabuli_chr07	43500675	AA	GG	1946901662
SNP_P4_103485_43500757	NC_021166.1	Ca_kabuli_chr07	43500757	TT	CC	1946901664
SNP_P4_103486_43504626	NC_021166.1	Ca_kabuli_chr07	43504626	TT	CC	1946901667
SNP_P4_103487_43504911	NC_021166.1	Ca_kabuli_chr07	43504911	TT	CC	1946901669
SNP_P4_103488_43504946	NC_021166.1	Ca_kabuli_chr07	43504946	AA	GG	1946901671
SNP_P4_103489_43519278	NC_021166.1	Ca_kabuli_chr07	43519278	GG	AA	1946901673
SNP_P4_103490_43530470	NC_021166.1	Ca_kabuli_chr07	43530470	AA	GG	1946901675
SNP_P4_103491_43530478	NC_021166.1	Ca_kabuli_chr07	43530478	TT	AA	1946901677
SNP_P4_103492_43530514	NC_021166.1	Ca_kabuli_chr07	43530514	GG	AA	1946901679
SNP_P4_103493_43530525	NC_021166.1	Ca_kabuli_chr07	43530525	CC	TT	1946901681
SNP_P4_103494_43530546	NC_021166.1	Ca_kabuli_chr07	43530546	GG	AA	1946901683
SNP_P4_103496_43566840	NC_021166.1	Ca_kabuli_chr07	43566840	CC	TT	1946901684
SNP_P4_103497_43573194	NC_021166.1	Ca_kabuli_chr07	43573194	GG	AA	1946901686
SNP_P4_103500_43608275	NC_021166.1	Ca_kabuli_chr07	43608275	TT	GG	1946901688
SNP_P4_103501_43608306	NC_021166.1	Ca_kabuli_chr07	43608306	AA	GG	1946901690
SNP_P4_103502_43622386	NC_021166.1	Ca_kabuli_chr07	43622386	TT	GG	1946901692
SNP_P4_103503_43622388	NC_021166.1	Ca_kabuli_chr07	43622388	TT	GG	1946901694
SNP_P4_103504_43624584	NC_021166.1	Ca_kabuli_chr07	43624584	CC	AA	1946901696
SNP_P4_103505_43624596	NC_021166.1	Ca_kabuli_chr07	43624596	TT	CC	1946901698
SNP_P4_103506_43624665	NC_021166.1	Ca_kabuli_chr07	43624665	AA	GG	1946901700
SNP_P4_103507_43624674	NC_021166.1	Ca_kabuli_chr07	43624674	CC	TT	1946901703
SNP_P4_103508_43624913	NC_021166.1	Ca_kabuli_chr07	43624913	AA	TT	1946901705
SNP_P4_103509_43625228	NC_021166.1	Ca_kabuli_chr07	43625228	AA	GG	1946901707
SNP_P4_103511_43636188	NC_021166.1	Ca_kabuli_chr07	43636188	AA	CC	1946901709
SNP_P4_103512_43636575	NC_021166.1	Ca_kabuli_chr07	43636575	GG	CC	1946901711
SNP_P4_103513_43641884	NC_021166.1	Ca_kabuli_chr07	43641884	GG	CC	1946901713
SNP_P4_103514_43654590	NC_021166.1	Ca_kabuli_chr07	43654590	AA	GG	1946901715
SNP_P4_103515_43682834	NC_021166.1	Ca_kabuli_chr07	43682834	AA	GG	1946901717
SNP_P4_103516_43685028	NC_021166.1	Ca_kabuli_chr07	43685028	GG	AA	1946901719
SNP_P4_103517_43685580	NC_021166.1	Ca_kabuli_chr07	43685580	TT	GG	1946901721
SNP_P4_103518_43685600	NC_021166.1	Ca_kabuli_chr07	43685600	TT	GG	1946901724
SNP_P4_103519_43685967	NC_021166.1	Ca_kabuli_chr07	43685967	GG	AA	1946901726
SNP_P4_103520_43691779	NC_021166.1	Ca_kabuli_chr07	43691779	GG	AA	1946901728
SNP_P4_103521_43693049	NC_021166.1	Ca_kabuli_chr07	43693049	GG	AA	1946901730

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_103523_43693175	NC_021166.1	Ca_kabuli_chr07	43693175	GG	AA	1946901734
SNP_P4_103524_43693181	NC_021166.1	Ca_kabuli_chr07	43693181	GG	CC	1946901736
SNP_P4_103525_43702800	NC_021166.1	Ca_kabuli_chr07	43702800	TT	CC	1946901738
SNP_P4_103526_43702862	NC_021166.1	Ca_kabuli_chr07	43702862	TT	CC	1946901740
SNP_P4_103527_43702876	NC_021166.1	Ca_kabuli_chr07	43702876	TT	CC	1946901742
SNP_P4_103528_43705065	NC_021166.1	Ca_kabuli_chr07	43705065	TT	CC	1946901744
SNP_P4_103529_43705135	NC_021166.1	Ca_kabuli_chr07	43705135	CC	AA	1946901746
SNP_P4_103530_43705192	NC_021166.1	Ca_kabuli_chr07	43705192	AA	GG	1946901748
SNP_P4_103531_43705431	NC_021166.1	Ca_kabuli_chr07	43705431	CC	TT	1946901750
SNP_P4_103532_43705465	NC_021166.1	Ca_kabuli_chr07	43705465	CC	TT	1946901752
SNP_P4_103533_43705467	NC_021166.1	Ca_kabuli_chr07	43705467	CC	TT	1946901754
SNP_P4_103535_43705618	NC_021166.1	Ca_kabuli_chr07	43705618	AA	GG	1946901756
SNP_P4_103536_43715164	NC_021166.1	Ca_kabuli_chr07	43715164	CC	GG	1946901758
SNP_P4_103537_43715279	NC_021166.1	Ca_kabuli_chr07	43715279	TT	CC	1946901760
SNP_P4_103538_43715412	NC_021166.1	Ca_kabuli_chr07	43715412	AA	GG	1946901762
SNP_P4_103539_43736102	NC_021166.1	Ca_kabuli_chr07	43736102	AA	TT	1946901764
SNP_P4_103540_43736219	NC_021166.1	Ca_kabuli_chr07	43736219	GG	AA	1946901766
SNP_P4_103541_43737525	NC_021166.1	Ca_kabuli_chr07	43737525	AA	CC	1946901768
SNP_P4_103542_43737685	NC_021166.1	Ca_kabuli_chr07	43737685	TT	GG	1946901770
SNP_P4_103543_43737731	NC_021166.1	Ca_kabuli_chr07	43737731	AA	GG	1946901772
SNP_P4_103544_43748287	NC_021166.1	Ca_kabuli_chr07	43748287	GG	AA	1946901774
SNP_P4_103545_43755359	NC_021166.1	Ca_kabuli_chr07	43755359	TT	CC	1946901776
SNP_P4_103546_43771759	NC_021166.1	Ca_kabuli_chr07	43771759	TT	GG	1946901778
SNP_P4_103547_43772022	NC_021166.1	Ca_kabuli_chr07	43772022	CC	GG	1946901780
SNP_P4_103548_43772082	NC_021166.1	Ca_kabuli_chr07	43772082	TT	CC	1946901782
SNP_P4_103549_43772708	NC_021166.1	Ca_kabuli_chr07	43772708	GG	TT	1946901784
SNP_P4_103550_43780650	NC_021166.1	Ca_kabuli_chr07	43780650	AA	TT	1946901786
SNP_P4_103551_43780659	NC_021166.1	Ca_kabuli_chr07	43780659	AA	GG	1946901788
SNP_P4_103552_43780902	NC_021166.1	Ca_kabuli_chr07	43780902	AA	GG	1946901790
SNP_P4_103553_43780934	NC_021166.1	Ca_kabuli_chr07	43780934	CC	TT	1946901792
SNP_P4_103554_43786463	NC_021166.1	Ca_kabuli_chr07	43786463	AA	CC	1946901794
SNP_P4_103555_43786469	NC_021166.1	Ca_kabuli_chr07	43786469	TT	CC	1946901796
SNP_P4_103556_43786802	NC_021166.1	Ca_kabuli_chr07	43786802	AA	GG	1946901798
SNP_P4_103557_43786856	NC_021166.1	Ca_kabuli_chr07	43786856	AA	GG	1946901800
SNP_P4_103558_43787709	NC_021166.1	Ca_kabuli_chr07	43787709	CC	AA	1946901803
SNP_P4_103559_43791739	NC_021166.1	Ca_kabuli_chr07	43791739	AA	GG	1946901805
SNP_P4_103560_43792572	NC_021166.1	Ca_kabuli_chr07	43792572	AA	CC	1946901807
SNP_P4_103561_43792600	NC_021166.1	Ca_kabuli_chr07	43792600	GG	AA	1946901809
SNP_P4_103562_43792946	NC_021166.1	Ca_kabuli_chr07	43792946	GG	TT	1946901811
SNP_P4_103565_43811199	NC_021166.1	Ca_kabuli_chr07	43811199	TT	AA	1946901813
SNP_P4_103566_43823087	NC_021166.1	Ca_kabuli_chr07	43823087	GG	TT	1946901815

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_103568_43827451	NC_021166.1	Ca_kabuli_chr07	43827451	GG	TT	1946901819
SNP_P4_103569_43827729	NC_021166.1	Ca_kabuli_chr07	43827729	TT	CC	1946901821
SNP_P4_103570_43827771	NC_021166.1	Ca_kabuli_chr07	43827771	AA	GG	1946901823
SNP_P4_103571_43827783	NC_021166.1	Ca_kabuli_chr07	43827783	TT	GG	1946901825
SNP_P4_103572_43827803	NC_021166.1	Ca_kabuli_chr07	43827803	AA	GG	1946901827
SNP_P4_103573_43838411	NC_021166.1	Ca_kabuli_chr07	43838411	TT	GG	1946901829
SNP_P4_103574_43838576	NC_021166.1	Ca_kabuli_chr07	43838576	AA	TT	1946901831
SNP_P4_103575_43838643	NC_021166.1	Ca_kabuli_chr07	43838643	AA	GG	1946901833
SNP_P4_103576_43838679	NC_021166.1	Ca_kabuli_chr07	43838679	AA	GG	1946901835
SNP_P4_103577_43838711	NC_021166.1	Ca_kabuli_chr07	43838711	TT	CC	1946901837
SNP_P4_103578_43838729	NC_021166.1	Ca_kabuli_chr07	43838729	AA	CC	1946901839
SNP_P4_103579_43840377	NC_021166.1	Ca_kabuli_chr07	43840377	CC	TT	1946901841
SNP_P4_103580_43840433	NC_021166.1	Ca_kabuli_chr07	43840433	GG	AA	1946901843
SNP_P4_103582_43840672	NC_021166.1	Ca_kabuli_chr07	43840672	CC	AA	1946901845
SNP_P4_103583_43840963	NC_021166.1	Ca_kabuli_chr07	43840963	AA	GG	1946901847
SNP_P4_103584_43840967	NC_021166.1	Ca_kabuli_chr07	43840967	TT	CC	1946901849
SNP_P4_103585_43841175	NC_021166.1	Ca_kabuli_chr07	43841175	TT	CC	1946901851
SNP_P4_103586_43888189	NC_021166.1	Ca_kabuli_chr07	43888189	GG	AA	1946901853
SNP_P4_103588_43922181	NC_021166.1	Ca_kabuli_chr07	43922181	CC	TT	1946901855
SNP_P4_103589_43952657	NC_021166.1	Ca_kabuli_chr07	43952657	AA	GG	1946901857
SNP_P4_103590_43975226	NC_021166.1	Ca_kabuli_chr07	43975226	TT	AA	1946901859
SNP_P4_103592_43993554	NC_021166.1	Ca_kabuli_chr07	43993554	AA	GG	1946901861
SNP_P4_103593_43993877	NC_021166.1	Ca_kabuli_chr07	43993877	CC	GG	1946901863
SNP_P4_103594_43993895	NC_021166.1	Ca_kabuli_chr07	43993895	GG	TT	1946901865
SNP_P4_103595_43995295	NC_021166.1	Ca_kabuli_chr07	43995295	CC	TT	1946901867
SNP_P4_103596_43995338	NC_021166.1	Ca_kabuli_chr07	43995338	TT	AA	1946901869
SNP_P4_103597_43995373	NC_021166.1	Ca_kabuli_chr07	43995373	TT	CC	1946901871
SNP_P4_103598_43999236	NC_021166.1	Ca_kabuli_chr07	43999236	TT	AA	1946901873
SNP_P4_103599_43999497	NC_021166.1	Ca_kabuli_chr07	43999497	GG	AA	1946901875
SNP_P4_103600_43999556	NC_021166.1	Ca_kabuli_chr07	43999556	CC	TT	1946901877
SNP_P4_103601_43999572	NC_021166.1	Ca_kabuli_chr07	43999572	AA	GG	1946901879
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SNP_P4_103603_43999631	NC_021166.1	Ca_kabuli_chr07	43999631	AA	GG	1946901883
SNP_P4_103604_44001061	NC_021166.1	Ca_kabuli_chr07	44001061	AA	TT	1946901885
SNP_P4_103605_44001103	NC_021166.1	Ca_kabuli_chr07	44001103	AA	GG	1946901887
SNP_P4_103607_44001256	NC_021166.1	Ca_kabuli_chr07	44001256	CC	TT	1946901890
SNP_P4_103608_44001355	NC_021166.1	Ca_kabuli_chr07	44001355	AA	CC	1946901892
SNP_P4_103609_44001417	NC_021166.1	Ca_kabuli_chr07	44001417	CC	AA	1946901894
SNP_P4_103610_44001427	NC_021166.1	Ca_kabuli_chr07	44001427	GG	AA	1946901896
SNP_P4_103611_44001431	NC_021166.1	Ca_kabuli_chr07	44001431	CC	TT	1946901898
SNP_P4_103613_44001626	NC_021166.1	Ca_kabuli_chr07	44001626	AA	TT	1946901900

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_103615_44001939	NC_021166.1	Ca_kabuli_chr07	44001939	TT	CC	1946901904
SNP_P4_103616_44001948	NC_021166.1	Ca_kabuli_chr07	44001948	CC	TT	1946901906
SNP_P4_103617_44001968	NC_021166.1	Ca_kabuli_chr07	44001968	GG	AA	1946901909
SNP_P4_103618_44002223	NC_021166.1	Ca_kabuli_chr07	44002223	TT	AA	1946901911
SNP_P4_103619_44002291	NC_021166.1	Ca_kabuli_chr07	44002291	AA	CC	1946901913
SNP_P4_103620_44002332	NC_021166.1	Ca_kabuli_chr07	44002332	GG	AA	1946901915
SNP_P4_103621_44033578	NC_021166.1	Ca_kabuli_chr07	44033578	TT	CC	1946901917
SNP_P4_103622_44053425	NC_021166.1	Ca_kabuli_chr07	44053425	CC	TT	1946901920
SNP_P4_103625_44074672	NC_021166.1	Ca_kabuli_chr07	44074672	AA	CC	1946901922
SNP_P4_103627_44076016	NC_021166.1	Ca_kabuli_chr07	44076016	CC	AA	1946901924
SNP_P4_103628_44084408	NC_021166.1	Ca_kabuli_chr07	44084408	TT	GG	1946901926
SNP_P4_103629_44088952	NC_021166.1	Ca_kabuli_chr07	44088952	TT	CC	1946901928
SNP_P4_103631_44121373	NC_021166.1	Ca_kabuli_chr07	44121373	TT	CC	1946901930
SNP_P4_103632_44150066	NC_021166.1	Ca_kabuli_chr07	44150066	GG	AA	1946901932
SNP_P4_103635_44150903	NC_021166.1	Ca_kabuli_chr07	44150903	AA	TT	1946901934
SNP_P4_103636_44161213	NC_021166.1	Ca_kabuli_chr07	44161213	CC	AA	1946901936
SNP_P4_103637_44185433	NC_021166.1	Ca_kabuli_chr07	44185433	GG	AA	1946901938
SNP_P4_103638_44186806	NC_021166.1	Ca_kabuli_chr07	44186806	GG	TT	1946901940
SNP_P4_103639_44186809	NC_021166.1	Ca_kabuli_chr07	44186809	TT	GG	1946901942
SNP_P4_103640_44186829	NC_021166.1	Ca_kabuli_chr07	44186829	GG	AA	1946901944
SNP_P4_103641_44199235	NC_021166.1	Ca_kabuli_chr07	44199235	GG	AA	1946901946
SNP_P4_103642_44213826	NC_021166.1	Ca_kabuli_chr07	44213826	AA	GG	1946901949
SNP_P4_103643_44213889	NC_021166.1	Ca_kabuli_chr07	44213889	AA	TT	1946901951
SNP_P4_103644_44214117	NC_021166.1	Ca_kabuli_chr07	44214117	AA	GG	1946901953
SNP_P4_103645_44214125	NC_021166.1	Ca_kabuli_chr07	44214125	AA	GG	1946901955
SNP_P4_103646_44214294	NC_021166.1	Ca_kabuli_chr07	44214294	CC	AA	1946901957
SNP_P4_103647_44214308	NC_021166.1	Ca_kabuli_chr07	44214308	TT	CC	1946901959
SNP_P4_103648_44214492	NC_021166.1	Ca_kabuli_chr07	44214492	TT	CC	1946901961
SNP_P4_103649_44214505	NC_021166.1	Ca_kabuli_chr07	44214505	CC	TT	1946901963
SNP_P4_103650_44214559	NC_021166.1	Ca_kabuli_chr07	44214559	TT	AA	1946901965
SNP_P4_103651_44216286	NC_021166.1	Ca_kabuli_chr07	44216286	TT	CC	1946901967
SNP_P4_103652_44217172	NC_021166.1	Ca_kabuli_chr07	44217172	AA	TT	1946901969
SNP_P4_103653_44217643	NC_021166.1	Ca_kabuli_chr07	44217643	CC	TT	1946901971
SNP_P4_103654_44301665	NC_021166.1	Ca_kabuli_chr07	44301665	CC	TT	1946901973
SNP_P4_103655_44322209	NC_021166.1	Ca_kabuli_chr07	44322209	AA	CC	1946901975
SNP_P4_103656_44343594	NC_021166.1	Ca_kabuli_chr07	44343594	TT	CC	1946901977
SNP_P4_103657_44351034	NC_021166.1	Ca_kabuli_chr07	44351034	GG	TT	1946901979
SNP_P4_103660_44395556	NC_021166.1	Ca_kabuli_chr07	44395556	AA	CC	1946901981
SNP_P4_103661_44395867	NC_021166.1	Ca_kabuli_chr07	44395867	TT	CC	1946901983
SNP_P4_103662_44395922	NC_021166.1	Ca_kabuli_chr07	44395922	AA	CC	1946901985
SNP_P4_103663_44395924	NC_021166.1	Ca_kabuli_chr07	44395924	AA	TT	1946901987

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_103665_44396011	NC_021166.1	Ca_kabuli_chr07	44396011	TT	CC	1946901991
SNP_P4_103666_44396026	NC_021166.1	Ca_kabuli_chr07	44396026	AA	GG	1946901993
SNP_P4_103667_44396151	NC_021166.1	Ca_kabuli_chr07	44396151	AA	GG	1946901995
SNP_P4_103668_44396158	NC_021166.1	Ca_kabuli_chr07	44396158	TT	CC	1946901997
SNP_P4_103669_44396306	NC_021166.1	Ca_kabuli_chr07	44396306	TT	GG	1946901999
SNP_P4_103670_44396309	NC_021166.1	Ca_kabuli_chr07	44396309	CC	TT	1946902001
SNP_P4_103671_44396353	NC_021166.1	Ca_kabuli_chr07	44396353	CC	TT	1946902003
SNP_P4_103672_44396359	NC_021166.1	Ca_kabuli_chr07	44396359	AA	GG	1946902005
SNP_P4_103673_44396425	NC_021166.1	Ca_kabuli_chr07	44396425	AA	CC	1946902007
SNP_P4_103674_44396427	NC_021166.1	Ca_kabuli_chr07	44396427	GG	AA	1946902009
SNP_P4_103675_44396493	NC_021166.1	Ca_kabuli_chr07	44396493	AA	GG	1946902011
SNP_P4_103676_44396516	NC_021166.1	Ca_kabuli_chr07	44396516	GG	AA	1946902013
SNP_P4_103677_44404721	NC_021166.1	Ca_kabuli_chr07	44404721	TT	CC	1946902015
SNP_P4_103678_44404780	NC_021166.1	Ca_kabuli_chr07	44404780	GG	AA	1946902017
SNP_P4_103679_44405115	NC_021166.1	Ca_kabuli_chr07	44405115	TT	CC	1946902019
SNP_P4_103680_44408185	NC_021166.1	Ca_kabuli_chr07	44408185	CC	TT	1946902021
SNP_P4_103682_44433543	NC_021166.1	Ca_kabuli_chr07	44433543	GG	AA	1946902023
SNP_P4_103683_44440501	NC_021166.1	Ca_kabuli_chr07	44440501	GG	TT	1946902025
SNP_P4_103684_44440548	NC_021166.1	Ca_kabuli_chr07	44440548	CC	TT	1946902028
SNP_P4_103685_44440598	NC_021166.1	Ca_kabuli_chr07	44440598	TT	CC	1946902030
SNP_P4_103686_44440908	NC_021166.1	Ca_kabuli_chr07	44440908	CC	TT	1946902032
SNP_P4_103687_44440928	NC_021166.1	Ca_kabuli_chr07	44440928	TT	GG	1946902034
SNP_P4_103688_44442476	NC_021166.1	Ca_kabuli_chr07	44442476	CC	TT	1946902036
SNP_P4_103689_44442866	NC_021166.1	Ca_kabuli_chr07	44442866	AA	TT	1946902038
SNP_P4_103690_44459674	NC_021166.1	Ca_kabuli_chr07	44459674	TT	CC	1946902040
SNP_P4_103692_44475583	NC_021166.1	Ca_kabuli_chr07	44475583	AA	GG	1946902042
SNP_P4_103693_44476653	NC_021166.1	Ca_kabuli_chr07	44476653	TT	CC	1946902044
SNP_P4_103694_44476672	NC_021166.1	Ca_kabuli_chr07	44476672	TT	CC	1946902046
SNP_P4_103695_44477449	NC_021166.1	Ca_kabuli_chr07	44477449	GG	AA	1946902048
SNP_P4_103696_44477548	NC_021166.1	Ca_kabuli_chr07	44477548	AA	GG	1946902050
SNP_P4_103697_44496691	NC_021166.1	Ca_kabuli_chr07	44496691	TT	CC	1946902052
SNP_P4_103698_44497353	NC_021166.1	Ca_kabuli_chr07	44497353	AA	TT	1946902054
SNP_P4_103699_44508894	NC_021166.1	Ca_kabuli_chr07	44508894	TT	CC	1946902056
SNP_P4_103700_44518553	NC_021166.1	Ca_kabuli_chr07	44518553	GG	AA	1946902058
SNP_P4_103701_44518566	NC_021166.1	Ca_kabuli_chr07	44518566	GG	AA	1946902060
SNP_P4_103702_44533164	NC_021166.1	Ca_kabuli_chr07	44533164	GG	AA	1946902062
SNP_P4_103703_44542989	NC_021166.1	Ca_kabuli_chr07	44542989	AA	GG	1946902064
SNP_P4_103704_44543017	NC_021166.1	Ca_kabuli_chr07	44543017	CC	GG	1946902066
SNP_P4_103705_44543118	NC_021166.1	Ca_kabuli_chr07	44543118	TT	AA	1946902068
SNP_P4_103706_44543578	NC_021166.1	Ca_kabuli_chr07	44543578	CC	AA	1946902070
SNP_P4_103707_44543596	NC_021166.1	Ca_kabuli_chr07	44543596	TT	AA	1946902072

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_103709_44543618	NC_021166.1	Ca_kabuli_chr07	44543618	AA	TT	1946902077
SNP_P4_103710_44543643	NC_021166.1	Ca_kabuli_chr07	44543643	AA	TT	1946902079
SNP_P4_103711_44543651	NC_021166.1	Ca_kabuli_chr07	44543651	GG	TT	1946902081
SNP_P4_103712_44543864	NC_021166.1	Ca_kabuli_chr07	44543864	GG	AA	1946902083
SNP_P4_103713_44543935	NC_021166.1	Ca_kabuli_chr07	44543935	AA	GG	1946902085
SNP_P4_103714_44543978	NC_021166.1	Ca_kabuli_chr07	44543978	AA	GG	1946902087
SNP_P4_103715_44543980	NC_021166.1	Ca_kabuli_chr07	44543980	TT	AA	1946902089
SNP_P4_103716_44543995	NC_021166.1	Ca_kabuli_chr07	44543995	TT	GG	1946902092
SNP_P4_103717_44569270	NC_021166.1	Ca_kabuli_chr07	44569270	TT	GG	1946902094
SNP_P4_103719_44569765	NC_021166.1	Ca_kabuli_chr07	44569765	AA	TT	1946902096
SNP_P4_103720_44569774	NC_021166.1	Ca_kabuli_chr07	44569774	TT	CC	1946902098
SNP_P4_103721_44569999	NC_021166.1	Ca_kabuli_chr07	44569999	AA	GG	1946902100
SNP_P4_103722_44571598	NC_021166.1	Ca_kabuli_chr07	44571598	CC	AA	1946902102
SNP_P4_103723_44571730	NC_021166.1	Ca_kabuli_chr07	44571730	AA	GG	1946902104
SNP_P4_103724_44571733	NC_021166.1	Ca_kabuli_chr07	44571733	TT	AA	1946902106
SNP_P4_103725_44572129	NC_021166.1	Ca_kabuli_chr07	44572129	TT	AA	1946902108
SNP_P4_103726_44668225	NC_021166.1	Ca_kabuli_chr07	44668225	GG	AA	1946902110
SNP_P4_103727_44669912	NC_021166.1	Ca_kabuli_chr07	44669912	TT	CC	1946902112
SNP_P4_103728_44669916	NC_021166.1	Ca_kabuli_chr07	44669916	AA	CC	1946902114
SNP_P4_103730_44683912	NC_021166.1	Ca_kabuli_chr07	44683912	CC	TT	1946902116
SNP_P4_103731_44701706	NC_021166.1	Ca_kabuli_chr07	44701706	CC	TT	1946902118
SNP_P4_103732_44716395	NC_021166.1	Ca_kabuli_chr07	44716395	TT	GG	1946902120
SNP_P4_103733_44717481	NC_021166.1	Ca_kabuli_chr07	44717481	GG	TT	1946902122
SNP_P4_103734_44720974	NC_021166.1	Ca_kabuli_chr07	44720974	AA	CC	1946902124
SNP_P4_103735_44730539	NC_021166.1	Ca_kabuli_chr07	44730539	AA	CC	1946902126
SNP_P4_103736_44732686	NC_021166.1	Ca_kabuli_chr07	44732686	GG	AA	1946902128
SNP_P4_103737_44753822	NC_021166.1	Ca_kabuli_chr07	44753822	AA	TT	1946902130
SNP_P4_103738_44796461	NC_021166.1	Ca_kabuli_chr07	44796461	CC	GG	1946902132
SNP_P4_103739_44799672	NC_021166.1	Ca_kabuli_chr07	44799672	CC	TT	1946902134
SNP_P4_103740_44799699	NC_021166.1	Ca_kabuli_chr07	44799699	CC	AA	1946902136
SNP_P4_103741_44799852	NC_021166.1	Ca_kabuli_chr07	44799852	AA	CC	1946902138
SNP_P4_103742_44815374	NC_021166.1	Ca_kabuli_chr07	44815374	AA	CC	1946902140
SNP_P4_103743_44815825	NC_021166.1	Ca_kabuli_chr07	44815825	GG	AA	1946902142
SNP_P4_103744_44819304	NC_021166.1	Ca_kabuli_chr07	44819304	CC	TT	1946902144
SNP_P4_103745_44821655	NC_021166.1	Ca_kabuli_chr07	44821655	CC	GG	1946902146
SNP_P4_103746_44821814	NC_021166.1	Ca_kabuli_chr07	44821814	GG	AA	1946902148
SNP_P4_103747_44821834	NC_021166.1	Ca_kabuli_chr07	44821834	GG	AA	1946902150
SNP_P4_103748_44822404	NC_021166.1	Ca_kabuli_chr07	44822404	AA	TT	1946902152
SNP_P4_103749_44822656	NC_021166.1	Ca_kabuli_chr07	44822656	CC	AA	1946902154
SNP_P4_103750_44822659	NC_021166.1	Ca_kabuli_chr07	44822659	AA	GG	1946902156
SNP_P4_103751_44822679	NC_021166.1	Ca_kabuli_chr07	44822679	AA	CC	1946902158

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_103754_44830215	NC_021166.1	Ca_kabuli_chr07	44830215	TT	AA	1946902164
SNP_P4_103755_44830234	NC_021166.1	Ca_kabuli_chr07	44830234	GG	AA	1946902166
SNP_P4_103756_44832889	NC_021166.1	Ca_kabuli_chr07	44832889	CC	TT	1946902168
SNP_P4_103757_44832910	NC_021166.1	Ca_kabuli_chr07	44832910	AA	GG	1946902170
SNP_P4_103758_44832922	NC_021166.1	Ca_kabuli_chr07	44832922	CC	AA	1946902172
SNP_P4_103759_44832943	NC_021166.1	Ca_kabuli_chr07	44832943	TT	CC	1946902174
SNP_P4_103760_44863535	NC_021166.1	Ca_kabuli_chr07	44863535	GG	TT	1946902176
SNP_P4_103762_44895723	NC_021166.1	Ca_kabuli_chr07	44895723	GG	AA	1946902178
SNP_P4_103764_44909802	NC_021166.1	Ca_kabuli_chr07	44909802	AA	GG	1946902180
SNP_P4_103765_44917258	NC_021166.1	Ca_kabuli_chr07	44917258	GG	AA	1946902182
SNP_P4_103766_44921075	NC_021166.1	Ca_kabuli_chr07	44921075	GG	TT	1946902184
SNP_P4_103767_44921077	NC_021166.1	Ca_kabuli_chr07	44921077	AA	TT	1946902186
SNP_P4_103768_44924545	NC_021166.1	Ca_kabuli_chr07	44924545	GG	CC	1946902188
SNP_P4_103769_44926852	NC_021166.1	Ca_kabuli_chr07	44926852	CC	TT	1946902190
SNP_P4_103770_44931309	NC_021166.1	Ca_kabuli_chr07	44931309	CC	TT	1946902192
SNP_P4_103771_44931558	NC_021166.1	Ca_kabuli_chr07	44931558	GG	AA	1946902194
SNP_P4_103772_44977182	NC_021166.1	Ca_kabuli_chr07	44977182	TT	AA	1946902196
SNP_P4_103773_44977183	NC_021166.1	Ca_kabuli_chr07	44977183	CC	AA	1946902198
SNP_P4_103774_45026048	NC_021166.1	Ca_kabuli_chr07	45026048	GG	CC	1946902201
SNP_P4_103775_45034281	NC_021166.1	Ca_kabuli_chr07	45034281	CC	TT	1946902203
SNP_P4_103776_45034658	NC_021166.1	Ca_kabuli_chr07	45034658	GG	AA	1946902205
SNP_P4_103777_45044059	NC_021166.1	Ca_kabuli_chr07	45044059	GG	AA	1946902207
SNP_P4_103778_45044164	NC_021166.1	Ca_kabuli_chr07	45044164	GG	CC	1946902209
SNP_P4_103779_45044246	NC_021166.1	Ca_kabuli_chr07	45044246	AA	GG	1946902211
SNP_P4_103780_45044467	NC_021166.1	Ca_kabuli_chr07	45044467	CC	TT	1946902213
SNP_P4_103781_45044468	NC_021166.1	Ca_kabuli_chr07	45044468	TT	CC	1946902215
SNP_P4_103782_45044478	NC_021166.1	Ca_kabuli_chr07	45044478	AA	GG	1946902217
SNP_P4_103783_45044481	NC_021166.1	Ca_kabuli_chr07	45044481	TT	GG	1946902219
SNP_P4_103784_45044520	NC_021166.1	Ca_kabuli_chr07	45044520	AA	GG	1946902221
SNP_P4_103785_45044538	NC_021166.1	Ca_kabuli_chr07	45044538	AA	GG	1946902223
SNP_P4_103786_45044543	NC_021166.1	Ca_kabuli_chr07	45044543	GG	AA	1946902225
SNP_P4_103787_45044569	NC_021166.1	Ca_kabuli_chr07	45044569	CC	TT	1946902227
SNP_P4_103788_45044625	NC_021166.1	Ca_kabuli_chr07	45044625	TT	CC	1946902229
SNP_P4_103789_45047801	NC_021166.1	Ca_kabuli_chr07	45047801	AA	GG	1946902231
SNP_P4_103790_45053444	NC_021166.1	Ca_kabuli_chr07	45053444	CC	AA	1946902233
SNP_P4_103791_45058257	NC_021166.1	Ca_kabuli_chr07	45058257	GG	CC	1946902235
SNP_P4_103792_45069235	NC_021166.1	Ca_kabuli_chr07	45069235	TT	CC	1946902237
SNP_P4_103793_45084140	NC_021166.1	Ca_kabuli_chr07	45084140	GG	AA	1946902240
SNP_P4_103794_45084169	NC_021166.1	Ca_kabuli_chr07	45084169	GG	TT	1946902242
SNP_P4_103795_45084199	NC_021166.1	Ca_kabuli_chr07	45084199	AA	GG	1946902244

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_103797_45084204	NC_021166.1	Ca_kabuli_chr07	45084204	AA	CC	1946902248
SNP_P4_103798_45087639	NC_021166.1	Ca_kabuli_chr07	45087639	CC	TT	1946902250
SNP_P4_103799_45088016	NC_021166.1	Ca_kabuli_chr07	45088016	CC	AA	1946902252
SNP_P4_103800_45089336	NC_021166.1	Ca_kabuli_chr07	45089336	GG	AA	1946902254
SNP_P4_103801_45089385	NC_021166.1	Ca_kabuli_chr07	45089385	AA	GG	1946902256
SNP_P4_103802_45112831	NC_021166.1	Ca_kabuli_chr07	45112831	AA	CC	1946902258
SNP_P4_103803_45112834	NC_021166.1	Ca_kabuli_chr07	45112834	TT	AA	1946902260
SNP_P4_103804_45113244	NC_021166.1	Ca_kabuli_chr07	45113244	CC	TT	1946902262
SNP_P4_103805_45113284	NC_021166.1	Ca_kabuli_chr07	45113284	AA	TT	1946902264
SNP_P4_103806_45113311	NC_021166.1	Ca_kabuli_chr07	45113311	TT	CC	1946902266
SNP_P4_103807_45113341	NC_021166.1	Ca_kabuli_chr07	45113341	AA	GG	1946902268
SNP_P4_103808_45113447	NC_021166.1	Ca_kabuli_chr07	45113447	AA	GG	1946902270
SNP_P4_103809_45119509	NC_021166.1	Ca_kabuli_chr07	45119509	AA	GG	1946902272
SNP_P4_103810_45124831	NC_021166.1	Ca_kabuli_chr07	45124831	AA	GG	1946902274
SNP_P4_103811_45124888	NC_021166.1	Ca_kabuli_chr07	45124888	TT	CC	1946902276
SNP_P4_103812_45124893	NC_021166.1	Ca_kabuli_chr07	45124893	TT	GG	1946902278
SNP_P4_103813_45124921	NC_021166.1	Ca_kabuli_chr07	45124921	AA	GG	1946902280
SNP_P4_103814_45128616	NC_021166.1	Ca_kabuli_chr07	45128616	AA	GG	1946902282
SNP_P4_103815_45128945	NC_021166.1	Ca_kabuli_chr07	45128945	AA	CC	1946902285
SNP_P4_103816_45129108	NC_021166.1	Ca_kabuli_chr07	45129108	TT	CC	1946902287
SNP_P4_103817_45132001	NC_021166.1	Ca_kabuli_chr07	45132001	TT	GG	1946902289
SNP_P4_103818_45132289	NC_021166.1	Ca_kabuli_chr07	45132289	CC	TT	1946902291
SNP_P4_103819_45136167	NC_021166.1	Ca_kabuli_chr07	45136167	AA	GG	1946902293
SNP_P4_103820_45149500	NC_021166.1	Ca_kabuli_chr07	45149500	AA	TT	1946902295
SNP_P4_103821_45149529	NC_021166.1	Ca_kabuli_chr07	45149529	TT	CC	1946902297
SNP_P4_103822_45149648	NC_021166.1	Ca_kabuli_chr07	45149648	TT	CC	1946902299
SNP_P4_103823_45149736	NC_021166.1	Ca_kabuli_chr07	45149736	AA	GG	1946902301
SNP_P4_103824_45149790	NC_021166.1	Ca_kabuli_chr07	45149790	TT	AA	1946902303
SNP_P4_103825_45150806	NC_021166.1	Ca_kabuli_chr07	45150806	GG	AA	1946902305
SNP_P4_103826_45150809	NC_021166.1	Ca_kabuli_chr07	45150809	GG	TT	1946902307
SNP_P4_103827_45150810	NC_021166.1	Ca_kabuli_chr07	45150810	GG	CC	1946902309
SNP_P4_103828_45150811	NC_021166.1	Ca_kabuli_chr07	45150811	TT	CC	1946902311
SNP_P4_103829_45150815	NC_021166.1	Ca_kabuli_chr07	45150815	AA	TT	1946902313
SNP_P4_103830_45150817	NC_021166.1	Ca_kabuli_chr07	45150817	TT	CC	1946902315
SNP_P4_103831_45150819	NC_021166.1	Ca_kabuli_chr07	45150819	GG	AA	1946902317
SNP_P4_103832_45150824	NC_021166.1	Ca_kabuli_chr07	45150824	GG	TT	1946902319
SNP_P4_103833_45151007	NC_021166.1	Ca_kabuli_chr07	45151007	TT	CC	1946902321
SNP_P4_103834_45151167	NC_021166.1	Ca_kabuli_chr07	45151167	CC	GG	1946902324
SNP_P4_103835_45151201	NC_021166.1	Ca_kabuli_chr07	45151201	AA	CC	1946902326
SNP_P4_103836_45151257	NC_021166.1	Ca_kabuli_chr07	45151257	AA	GG	1946902328
SNP_P4_103837_45151314	NC_021166.1	Ca_kabuli_chr07	45151314	TT	CC	1946902330

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_103839_45151523	NC_021166.1	Ca_kabuli_chr07	45151523	CC	TT	1946902334
SNP_P4_103840_45153721	NC_021166.1	Ca_kabuli_chr07	45153721	TT	AA	1946902336
SNP_P4_103841_45154040	NC_021166.1	Ca_kabuli_chr07	45154040	GG	CC	1946902339
SNP_P4_103842_45154043	NC_021166.1	Ca_kabuli_chr07	45154043	GG	CC	1946902341
SNP_P4_103843_45154064	NC_021166.1	Ca_kabuli_chr07	45154064	TT	CC	1946902343
SNP_P4_103844_45164254	NC_021166.1	Ca_kabuli_chr07	45164254	GG	CC	1946902345
SNP_P4_103845_45169409	NC_021166.1	Ca_kabuli_chr07	45169409	GG	AA	1946902347
SNP_P4_103846_45169595	NC_021166.1	Ca_kabuli_chr07	45169595	TT	AA	1946902349
SNP_P4_103847_45169598	NC_021166.1	Ca_kabuli_chr07	45169598	AA	GG	1946902351
SNP_P4_103849_45169882	NC_021166.1	Ca_kabuli_chr07	45169882	CC	TT	1946902353
SNP_P4_103850_45169907	NC_021166.1	Ca_kabuli_chr07	45169907	GG	AA	1946902355
SNP_P4_103851_45170508	NC_021166.1	Ca_kabuli_chr07	45170508	CC	AA	1946902357
SNP_P4_103853_45171009	NC_021166.1	Ca_kabuli_chr07	45171009	CC	TT	1946902359
SNP_P4_103854_45178096	NC_021166.1	Ca_kabuli_chr07	45178096	TT	AA	1946902361
SNP_P4_103855_45178510	NC_021166.1	Ca_kabuli_chr07	45178510	TT	CC	1946902363
SNP_P4_103856_45178963	NC_021166.1	Ca_kabuli_chr07	45178963	GG	AA	1946902365
SNP_P4_103857_45179010	NC_021166.1	Ca_kabuli_chr07	45179010	TT	AA	1946902367
SNP_P4_103858_45179049	NC_021166.1	Ca_kabuli_chr07	45179049	CC	AA	1946902369
SNP_P4_103859_45179224	NC_021166.1	Ca_kabuli_chr07	45179224	AA	GG	1946902371
SNP_P4_103860_45179264	NC_021166.1	Ca_kabuli_chr07	45179264	GG	AA	1946902373
SNP_P4_103861_45179306	NC_021166.1	Ca_kabuli_chr07	45179306	CC	TT	1946902375
SNP_P4_103862_45179427	NC_021166.1	Ca_kabuli_chr07	45179427	AA	TT	1946902378
SNP_P4_103863_45179441	NC_021166.1	Ca_kabuli_chr07	45179441	TT	CC	1946902380
SNP_P4_103864_45179494	NC_021166.1	Ca_kabuli_chr07	45179494	TT	GG	1946902382
SNP_P4_103865_45179697	NC_021166.1	Ca_kabuli_chr07	45179697	CC	TT	1946902384
SNP_P4_103866_45182943	NC_021166.1	Ca_kabuli_chr07	45182943	TT	CC	1946902386
SNP_P4_103869_45219826	NC_021166.1	Ca_kabuli_chr07	45219826	GG	AA	1946902388
SNP_P4_103870_45229246	NC_021166.1	Ca_kabuli_chr07	45229246	CC	TT	1946902390
SNP_P4_103871_45235288	NC_021166.1	Ca_kabuli_chr07	45235288	CC	TT	1946902392
SNP_P4_103873_45239191	NC_021166.1	Ca_kabuli_chr07	45239191	TT	AA	1946902394
SNP_P4_103874_45239383	NC_021166.1	Ca_kabuli_chr07	45239383	CC	TT	1946902396
SNP_P4_103876_45241502	NC_021166.1	Ca_kabuli_chr07	45241502	TT	AA	1946902398
SNP_P4_103877_45241747	NC_021166.1	Ca_kabuli_chr07	45241747	CC	AA	1946902400
SNP_P4_103879_45248837	NC_021166.1	Ca_kabuli_chr07	45248837	AA	GG	1946902402
SNP_P4_103881_45251588	NC_021166.1	Ca_kabuli_chr07	45251588	AA	GG	1946902404
SNP_P4_103883_45290593	NC_021166.1	Ca_kabuli_chr07	45290593	CC	TT	1946902406
SNP_P4_103884_45294029	NC_021166.1	Ca_kabuli_chr07	45294029	CC	TT	1946902408
SNP_P4_103885_45364494	NC_021166.1	Ca_kabuli_chr07	45364494	GG	AA	1946902410
SNP_P4_103886_45378257	NC_021166.1	Ca_kabuli_chr07	45378257	TT	GG	1946902412
SNP_P4_103887_45378377	NC_021166.1	Ca_kabuli_chr07	45378377	CC	TT	1946902414
SNP_P4_103888_45378779	NC_021166.1	Ca_kabuli_chr07	45378779	AA	CC	1946902416

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_103890_45380024	NC_021166.1	Ca_kabuli_chr07	45380024	TT	AA	1946902420
SNP_P4_103891_45380025	NC_021166.1	Ca_kabuli_chr07	45380025	CC	AA	1946902422
SNP_P4_103892_45380026	NC_021166.1	Ca_kabuli_chr07	45380026	AA	GG	1946902424
SNP_P4_103893_45380030	NC_021166.1	Ca_kabuli_chr07	45380030	AA	TT	1946902426
SNP_P4_103894_45383582	NC_021166.1	Ca_kabuli_chr07	45383582	TT	AA	1946902428
SNP_P4_103895_45385941	NC_021166.1	Ca_kabuli_chr07	45385941	GG	CC	1946902430
SNP_P4_103896_45385951	NC_021166.1	Ca_kabuli_chr07	45385951	AA	CC	1946902432
SNP_P4_103897_45386048	NC_021166.1	Ca_kabuli_chr07	45386048	GG	TT	1946902434
SNP_P4_103898_45386065	NC_021166.1	Ca_kabuli_chr07	45386065	TT	CC	1946902436
SNP_P4_103899_45386402	NC_021166.1	Ca_kabuli_chr07	45386402	GG	AA	1946902438
SNP_P4_103900_45386429	NC_021166.1	Ca_kabuli_chr07	45386429	CC	TT	1946902440
SNP_P4_103901_45388841	NC_021166.1	Ca_kabuli_chr07	45388841	CC	TT	1946902442
SNP_P4_103902_45389477	NC_021166.1	Ca_kabuli_chr07	45389477	GG	AA	1946902444
SNP_P4_103903_45391404	NC_021166.1	Ca_kabuli_chr07	45391404	TT	CC	1946902446
SNP_P4_103904_45391425	NC_021166.1	Ca_kabuli_chr07	45391425	CC	TT	1946902448
SNP_P4_103905_45391634	NC_021166.1	Ca_kabuli_chr07	45391634	AA	GG	1946902450
SNP_P4_103906_45391638	NC_021166.1	Ca_kabuli_chr07	45391638	AA	GG	1946902452
SNP_P4_103907_45391842	NC_021166.1	Ca_kabuli_chr07	45391842	TT	CC	1946902454
SNP_P4_103908_45392019	NC_021166.1	Ca_kabuli_chr07	45392019	CC	TT	1946902456
SNP_P4_103909_45392055	NC_021166.1	Ca_kabuli_chr07	45392055	AA	TT	1946902458
SNP_P4_103910_45392058	NC_021166.1	Ca_kabuli_chr07	45392058	GG	AA	1946902460
SNP_P4_103911_45392178	NC_021166.1	Ca_kabuli_chr07	45392178	AA	TT	1946902462
SNP_P4_103912_45392187	NC_021166.1	Ca_kabuli_chr07	45392187	AA	GG	1946902464
SNP_P4_103913_45392192	NC_021166.1	Ca_kabuli_chr07	45392192	GG	AA	1946902466
SNP_P4_103916_45439849	NC_021166.1	Ca_kabuli_chr07	45439849	AA	GG	1946902468
SNP_P4_103917_45439962	NC_021166.1	Ca_kabuli_chr07	45439962	CC	TT	1946902470
SNP_P4_103918_45439995	NC_021166.1	Ca_kabuli_chr07	45439995	GG	AA	1946902472
SNP_P4_103919_45440005	NC_021166.1	Ca_kabuli_chr07	45440005	AA	CC	1946902474
SNP_P4_103920_45440043	NC_021166.1	Ca_kabuli_chr07	45440043	GG	TT	1946902476
SNP_P4_103921_45440046	NC_021166.1	Ca_kabuli_chr07	45440046	AA	GG	1946902477
SNP_P4_103922_45446457	NC_021166.1	Ca_kabuli_chr07	45446457	GG	AA	1946902478
SNP_P4_103923_45446458	NC_021166.1	Ca_kabuli_chr07	45446458	AA	GG	1946902479
SNP_P4_103924_45447100	NC_021166.1	Ca_kabuli_chr07	45447100	AA	GG	1946902480
SNP_P4_103926_45481593	NC_021166.1	Ca_kabuli_chr07	45481593	CC	AA	1946902481
SNP_P4_103927_45493521	NC_021166.1	Ca_kabuli_chr07	45493521	TT	CC	1946902482
SNP_P4_103928_45498678	NC_021166.1	Ca_kabuli_chr07	45498678	TT	GG	1946902483
SNP_P4_103929_45520481	NC_021166.1	Ca_kabuli_chr07	45520481	CC	AA	1946902484
SNP_P4_103930_45530804	NC_021166.1	Ca_kabuli_chr07	45530804	GG	AA	1946902485
SNP_P4_103931_45530857	NC_021166.1	Ca_kabuli_chr07	45530857	CC	AA	1946902486
SNP_P4_103932_45535365	NC_021166.1	Ca_kabuli_chr07	45535365	CC	TT	1946902487
SNP_P4_103933_45536731	NC_021166.1	Ca_kabuli_chr07	45536731	AA	GG	1946902488

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_103935_45539531	NC_021166.1	Ca_kabuli_chr07	45539531	AA	GG	1946902490
SNP_P4_103936_45539549	NC_021166.1	Ca_kabuli_chr07	45539549	AA	CC	1946902491
SNP_P4_103937_45539870	NC_021166.1	Ca_kabuli_chr07	45539870	CC	TT	1946902492
SNP_P4_103938_45540436	NC_021166.1	Ca_kabuli_chr07	45540436	GG	CC	1946902494
SNP_P4_103939_45553195	NC_021166.1	Ca_kabuli_chr07	45553195	CC	TT	1946902496
SNP_P4_103940_45553967	NC_021166.1	Ca_kabuli_chr07	45553967	GG	AA	1946902498
SNP_P4_103941_45597998	NC_021166.1	Ca_kabuli_chr07	45597998	AA	CC	1946902500
SNP_P4_103942_45613740	NC_021166.1	Ca_kabuli_chr07	45613740	AA	GG	1946902502
SNP_P4_103943_45621895	NC_021166.1	Ca_kabuli_chr07	45621895	AA	TT	1946902504
SNP_P4_103944_45633933	NC_021166.1	Ca_kabuli_chr07	45633933	TT	CC	1946902506
SNP_P4_103945_45634261	NC_021166.1	Ca_kabuli_chr07	45634261	AA	GG	1946902508
SNP_P4_103946_45634331	NC_021166.1	Ca_kabuli_chr07	45634331	CC	TT	1946902510
SNP_P4_103947_45634332	NC_021166.1	Ca_kabuli_chr07	45634332	TT	CC	1946902512
SNP_P4_103948_45634344	NC_021166.1	Ca_kabuli_chr07	45634344	CC	TT	1946902514
SNP_P4_103949_45634345	NC_021166.1	Ca_kabuli_chr07	45634345	AA	GG	1946902516
SNP_P4_103950_45634520	NC_021166.1	Ca_kabuli_chr07	45634520	AA	CC	1946902518
SNP_P4_103951_45634614	NC_021166.1	Ca_kabuli_chr07	45634614	CC	AA	1946902520
SNP_P4_103952_45634654	NC_021166.1	Ca_kabuli_chr07	45634654	CC	TT	1946902522
SNP_P4_103954_45709669	NC_021166.1	Ca_kabuli_chr07	45709669	TT	CC	1946902524
SNP_P4_103955_45716414	NC_021166.1	Ca_kabuli_chr07	45716414	TT	CC	1946902526
SNP_P4_103956_45716417	NC_021166.1	Ca_kabuli_chr07	45716417	AA	TT	1946902528
SNP_P4_103957_45716418	NC_021166.1	Ca_kabuli_chr07	45716418	TT	CC	1946902530
SNP_P4_103959_45735980	NC_021166.1	Ca_kabuli_chr07	45735980	CC	TT	1946902532
SNP_P4_103960_45738166	NC_021166.1	Ca_kabuli_chr07	45738166	AA	CC	1946902534
SNP_P4_103963_45792639	NC_021166.1	Ca_kabuli_chr07	45792639	CC	AA	1946902536
SNP_P4_103964_45825477	NC_021166.1	Ca_kabuli_chr07	45825477	TT	CC	1946902538
SNP_P4_103965_45832003	NC_021166.1	Ca_kabuli_chr07	45832003	GG	AA	1946902540
SNP_P4_103966_45855053	NC_021166.1	Ca_kabuli_chr07	45855053	AA	GG	1946902542
SNP_P4_103967_45857022	NC_021166.1	Ca_kabuli_chr07	45857022	TT	AA	1946902544
SNP_P4_103968_45857065	NC_021166.1	Ca_kabuli_chr07	45857065	GG	TT	1946902546
SNP_P4_103969_45857083	NC_021166.1	Ca_kabuli_chr07	45857083	TT	CC	1946902548
SNP_P4_103970_45857100	NC_021166.1	Ca_kabuli_chr07	45857100	CC	TT	1946902550
SNP_P4_103971_45857104	NC_021166.1	Ca_kabuli_chr07	45857104	GG	AA	1946902552
SNP_P4_103972_45925356	NC_021166.1	Ca_kabuli_chr07	45925356	AA	CC	1946902554
SNP_P4_103973_45925360	NC_021166.1	Ca_kabuli_chr07	45925360	TT	CC	1946902556
SNP_P4_103974_45925453	NC_021166.1	Ca_kabuli_chr07	45925453	AA	CC	1946902558
SNP_P4_103975_45925471	NC_021166.1	Ca_kabuli_chr07	45925471	CC	TT	1946902560
SNP_P4_103976_45925489	NC_021166.1	Ca_kabuli_chr07	45925489	TT	GG	1946902562
SNP_P4_103977_45925490	NC_021166.1	Ca_kabuli_chr07	45925490	TT	GG	1946902564
SNP_P4_103978_45925516	NC_021166.1	Ca_kabuli_chr07	45925516	TT	CC	1946902566
SNP_P4_103979_45925519	NC_021166.1	Ca_kabuli_chr07	45925519	TT	CC	1946902568

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_103981_45925533	NC_021166.1	Ca_kabuli_chr07	45925533	AA	CC	1946902572
SNP_P4_103982_45925534	NC_021166.1	Ca_kabuli_chr07	45925534	TT	CC	1946902574
SNP_P4_103983_45925564	NC_021166.1	Ca_kabuli_chr07	45925564	CC	TT	1946902576
SNP_P4_103984_45925573	NC_021166.1	Ca_kabuli_chr07	45925573	GG	AA	1946902578
SNP_P4_103985_45925588	NC_021166.1	Ca_kabuli_chr07	45925588	TT	AA	1946902580
SNP_P4_103986_45925612	NC_021166.1	Ca_kabuli_chr07	45925612	TT	CC	1946902582
SNP_P4_103987_45925631	NC_021166.1	Ca_kabuli_chr07	45925631	GG	CC	1946902584
SNP_P4_103988_45925639	NC_021166.1	Ca_kabuli_chr07	45925639	AA	GG	1946902586
SNP_P4_103989_45925642	NC_021166.1	Ca_kabuli_chr07	45925642	TT	CC	1946902588
SNP_P4_103990_45925809	NC_021166.1	Ca_kabuli_chr07	45925809	CC	TT	1946902590
SNP_P4_103991_45925813	NC_021166.1	Ca_kabuli_chr07	45925813	AA	TT	1946902592
SNP_P4_103992_45925866	NC_021166.1	Ca_kabuli_chr07	45925866	GG	AA	1946902594
SNP_P4_103993_45925899	NC_021166.1	Ca_kabuli_chr07	45925899	AA	GG	1946902596
SNP_P4_103994_45927621	NC_021166.1	Ca_kabuli_chr07	45927621	CC	AA	1946902598
SNP_P4_103995_45927639	NC_021166.1	Ca_kabuli_chr07	45927639	CC	TT	1946902600
SNP_P4_103996_45927646	NC_021166.1	Ca_kabuli_chr07	45927646	TT	CC	1946902602
SNP_P4_103997_45927848	NC_021166.1	Ca_kabuli_chr07	45927848	TT	CC	1946902604
SNP_P4_103998_45927882	NC_021166.1	Ca_kabuli_chr07	45927882	GG	AA	1946902606
SNP_P4_103999_45927884	NC_021166.1	Ca_kabuli_chr07	45927884	GG	CC	1946902608
SNP_P4_104000_45927902	NC_021166.1	Ca_kabuli_chr07	45927902	GG	AA	1946902610
SNP_P4_104001_45927942	NC_021166.1	Ca_kabuli_chr07	45927942	CC	TT	1946902612
SNP_P4_104002_45927975	NC_021166.1	Ca_kabuli_chr07	45927975	CC	TT	1946902614
SNP_P4_104003_45931294	NC_021166.1	Ca_kabuli_chr07	45931294	GG	CC	1946902616
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SNP_P4_104006_45973010	NC_021166.1	Ca_kabuli_chr07	45973010	CC	TT	1946902620
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SNP_P4_104008_45991472	NC_021166.1	Ca_kabuli_chr07	45991472	CC	TT	1946902624
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SNP_P4_104010_45993614	NC_021166.1	Ca_kabuli_chr07	45993614	CC	TT	1946902628
SNP_P4_104011_45993627	NC_021166.1	Ca_kabuli_chr07	45993627	CC	GG	1946902630
SNP_P4_104012_45993641	NC_021166.1	Ca_kabuli_chr07	45993641	TT	AA	1946902632
SNP_P4_104013_45993820	NC_021166.1	Ca_kabuli_chr07	45993820	CC	GG	1946902634
SNP_P4_104014_45993847	NC_021166.1	Ca_kabuli_chr07	45993847	GG	AA	1946902636
SNP_P4_104015_46016564	NC_021166.1	Ca_kabuli_chr07	46016564	CC	AA	1946902638
SNP_P4_104016_46023840	NC_021166.1	Ca_kabuli_chr07	46023840	CC	TT	1946902640
SNP_P4_104018_46025244	NC_021166.1	Ca_kabuli_chr07	46025244	AA	GG	1946902642
SNP_P4_104019_46025245	NC_021166.1	Ca_kabuli_chr07	46025245	AA	GG	1946902644
SNP_P4_104020_46025779	NC_021166.1	Ca_kabuli_chr07	46025779	GG	AA	1946902647
SNP_P4_104022_46087159	NC_021166.1	Ca_kabuli_chr07	46087159	AA	GG	1946902649
SNP_P4_104024_46121304	NC_021166.1	Ca_kabuli_chr07	46121304	GG	TT	1946902651
SNP_P4_104025_46121327	NC_021166.1	Ca_kabuli_chr07	46121327	TT	CC	1946902653

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_104027_46123827	NC_021166.1	Ca_kabuli_chr07	46123827	TT	AA	1946902657
SNP_P4_104028_46123849	NC_021166.1	Ca_kabuli_chr07	46123849	AA	CC	1946902659
SNP_P4_104029_46123852	NC_021166.1	Ca_kabuli_chr07	46123852	TT	CC	1946902661
SNP_P4_104030_46123867	NC_021166.1	Ca_kabuli_chr07	46123867	AA	GG	1946902663
SNP_P4_104031_46123896	NC_021166.1	Ca_kabuli_chr07	46123896	AA	GG	1946902666
SNP_P4_104032_46123910	NC_021166.1	Ca_kabuli_chr07	46123910	AA	GG	1946902668
SNP_P4_104033_46123980	NC_021166.1	Ca_kabuli_chr07	46123980	AA	GG	1946902670
SNP_P4_104034_46123987	NC_021166.1	Ca_kabuli_chr07	46123987	TT	CC	1946902672
SNP_P4_104035_46123988	NC_021166.1	Ca_kabuli_chr07	46123988	TT	CC	1946902674
SNP_P4_104036_46124001	NC_021166.1	Ca_kabuli_chr07	46124001	GG	CC	1946902676
SNP_P4_104037_46124033	NC_021166.1	Ca_kabuli_chr07	46124033	AA	CC	1946902678
SNP_P4_104038_46124070	NC_021166.1	Ca_kabuli_chr07	46124070	CC	TT	1946902680
SNP_P4_104039_46124282	NC_021166.1	Ca_kabuli_chr07	46124282	AA	GG	1946902683
SNP_P4_104040_46124292	NC_021166.1	Ca_kabuli_chr07	46124292	AA	CC	1946902685
SNP_P4_104041_46126389	NC_021166.1	Ca_kabuli_chr07	46126389	GG	CC	1946902687
SNP_P4_104042_46126399	NC_021166.1	Ca_kabuli_chr07	46126399	TT	CC	1946902689
SNP_P4_104043_46127832	NC_021166.1	Ca_kabuli_chr07	46127832	CC	TT	1946902691
SNP_P4_104044_46127878	NC_021166.1	Ca_kabuli_chr07	46127878	AA	GG	1946902693
SNP_P4_104045_46127882	NC_021166.1	Ca_kabuli_chr07	46127882	AA	GG	1946902695
SNP_P4_104046_46127939	NC_021166.1	Ca_kabuli_chr07	46127939	TT	GG	1946902697
SNP_P4_104047_46127947	NC_021166.1	Ca_kabuli_chr07	46127947	TT	CC	1946902699
SNP_P4_104048_46127959	NC_021166.1	Ca_kabuli_chr07	46127959	TT	GG	1946902701
SNP_P4_104049_46127970	NC_021166.1	Ca_kabuli_chr07	46127970	AA	TT	1946902702
SNP_P4_104050_46128013	NC_021166.1	Ca_kabuli_chr07	46128013	AA	GG	1946902704
SNP_P4_104051_46128208	NC_021166.1	Ca_kabuli_chr07	46128208	TT	CC	1946902706
SNP_P4_104052_46132254	NC_021166.1	Ca_kabuli_chr07	46132254	GG	AA	1946902708
SNP_P4_104053_46132274	NC_021166.1	Ca_kabuli_chr07	46132274	TT	GG	1946902710
SNP_P4_104054_46132314	NC_021166.1	Ca_kabuli_chr07	46132314	AA	TT	1946902712
SNP_P4_104055_46132524	NC_021166.1	Ca_kabuli_chr07	46132524	TT	CC	1946902714
SNP_P4_104056_46132534	NC_021166.1	Ca_kabuli_chr07	46132534	AA	CC	1946902716
SNP_P4_104057_46132537	NC_021166.1	Ca_kabuli_chr07	46132537	AA	GG	1946902718
SNP_P4_104058_46132548	NC_021166.1	Ca_kabuli_chr07	46132548	AA	CC	1946902720
SNP_P4_104059_46132603	NC_021166.1	Ca_kabuli_chr07	46132603	TT	AA	1946902722
SNP_P4_104060_46132617	NC_021166.1	Ca_kabuli_chr07	46132617	AA	GG	1946902724
SNP_P4_104061_46132645	NC_021166.1	Ca_kabuli_chr07	46132645	CC	TT	1946902726
SNP_P4_104062_46132671	NC_021166.1	Ca_kabuli_chr07	46132671	CC	TT	1946902728
SNP_P4_104063_46178446	NC_021166.1	Ca_kabuli_chr07	46178446	TT	GG	1946902730
SNP_P4_104064_46178498	NC_021166.1	Ca_kabuli_chr07	46178498	AA	GG	1946902732
SNP_P4_104065_46178499	NC_021166.1	Ca_kabuli_chr07	46178499	AA	GG	1946902734
SNP_P4_104066_46178595	NC_021166.1	Ca_kabuli_chr07	46178595	TT	CC	1946902736
SNP_P4_104067_46178628	NC_021166.1	Ca_kabuli_chr07	46178628	TT	CC	1946902738

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_104069_46178863	NC_021166.1	Ca_kabuli_chr07	46178863	CC	TT	1946902742
SNP_P4_104070_46178917	NC_021166.1	Ca_kabuli_chr07	46178917	CC	TT	1946902744
SNP_P4_104071_46178924	NC_021166.1	Ca_kabuli_chr07	46178924	CC	TT	1946902746
SNP_P4_104072_46185493	NC_021166.1	Ca_kabuli_chr07	46185493	CC	AA	1946902748
SNP_P4_104073_46185499	NC_021166.1	Ca_kabuli_chr07	46185499	CC	AA	1946902750
SNP_P4_104074_46185500	NC_021166.1	Ca_kabuli_chr07	46185500	AA	GG	1946902752
SNP_P4_104075_46185508	NC_021166.1	Ca_kabuli_chr07	46185508	TT	CC	1946902754
SNP_P4_104076_46185626	NC_021166.1	Ca_kabuli_chr07	46185626	GG	AA	1946902756
SNP_P4_104077_46185671	NC_021166.1	Ca_kabuli_chr07	46185671	TT	CC	1946902758
SNP_P4_104078_46185674	NC_021166.1	Ca_kabuli_chr07	46185674	GG	AA	1946902760
SNP_P4_104079_46190449	NC_021166.1	Ca_kabuli_chr07	46190449	GG	AA	1946902762
SNP_P4_104080_46214458	NC_021166.1	Ca_kabuli_chr07	46214458	AA	GG	1946902764
SNP_P4_104081_46214701	NC_021166.1	Ca_kabuli_chr07	46214701	GG	TT	1946902766
SNP_P4_104082_46217006	NC_021166.1	Ca_kabuli_chr07	46217006	CC	AA	1946902768
SNP_P4_104083_46221230	NC_021166.1	Ca_kabuli_chr07	46221230	GG	AA	1946902770
SNP_P4_104084_46225906	NC_021166.1	Ca_kabuli_chr07	46225906	GG	AA	1946902772
SNP_P4_104085_46229920	NC_021166.1	Ca_kabuli_chr07	46229920	GG	AA	1946902774
SNP_P4_104086_46239737	NC_021166.1	Ca_kabuli_chr07	46239737	AA	CC	1946902776
SNP_P4_104087_46244237	NC_021166.1	Ca_kabuli_chr07	46244237	CC	GG	1946902778
SNP_P4_104088_46249135	NC_021166.1	Ca_kabuli_chr07	46249135	CC	TT	1946902780
SNP_P4_104089_46249733	NC_021166.1	Ca_kabuli_chr07	46249733	GG	AA	1946902782
SNP_P4_104090_46250235	NC_021166.1	Ca_kabuli_chr07	46250235	AA	TT	1946902784
SNP_P4_104091_46250320	NC_021166.1	Ca_kabuli_chr07	46250320	AA	GG	1946902786
SNP_P4_104092_46250347	NC_021166.1	Ca_kabuli_chr07	46250347	TT	CC	1946902788
SNP_P4_104093_46250432	NC_021166.1	Ca_kabuli_chr07	46250432	CC	TT	1946902790
SNP_P4_104094_46250435	NC_021166.1	Ca_kabuli_chr07	46250435	AA	GG	1946902792
SNP_P4_104095_46250577	NC_021166.1	Ca_kabuli_chr07	46250577	CC	TT	1946902794
SNP_P4_104096_46250665	NC_021166.1	Ca_kabuli_chr07	46250665	CC	TT	1946902796
SNP_P4_104097_46250696	NC_021166.1	Ca_kabuli_chr07	46250696	AA	GG	1946902798
SNP_P4_104098_46250749	NC_021166.1	Ca_kabuli_chr07	46250749	CC	TT	1946902800
SNP_P4_104099_46250754	NC_021166.1	Ca_kabuli_chr07	46250754	AA	TT	1946902802
SNP_P4_104101_46274774	NC_021166.1	Ca_kabuli_chr07	46274774	GG	CC	1946902804
SNP_P4_104102_46279498	NC_021166.1	Ca_kabuli_chr07	46279498	TT	GG	1946902806
SNP_P4_104103_46279507	NC_021166.1	Ca_kabuli_chr07	46279507	CC	TT	1946902808
SNP_P4_104106_46331501	NC_021166.1	Ca_kabuli_chr07	46331501	GG	AA	1946902811
SNP_P4_104107_46331645	NC_021166.1	Ca_kabuli_chr07	46331645	TT	CC	1946902813
SNP_P4_104108_46331672	NC_021166.1	Ca_kabuli_chr07	46331672	TT	CC	1946902815
SNP_P4_104109_46331708	NC_021166.1	Ca_kabuli_chr07	46331708	GG	AA	1946902817
SNP_P4_104110_46331709	NC_021166.1	Ca_kabuli_chr07	46331709	CC	TT	1946902819
SNP_P4_104111_46331729	NC_021166.1	Ca_kabuli_chr07	46331729	TT	CC	1946902821
SNP_P4_104112_46331730	NC_021166.1	Ca_kabuli_chr07	46331730	GG	AA	1946902823

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_104114_46331873	NC_021166.1	Ca_kabuli_chr07	46331873	TT	AA	1946902825
SNP_P4_104115_46331883	NC_021166.1	Ca_kabuli_chr07	46331883	TT	CC	1946902827
SNP_P4_104116_46332210	NC_021166.1	Ca_kabuli_chr07	46332210	AA	TT	1946902829
SNP_P4_104117_46332234	NC_021166.1	Ca_kabuli_chr07	46332234	TT	CC	1946902831
SNP_P4_104118_46332271	NC_021166.1	Ca_kabuli_chr07	46332271	GG	AA	1946902833
SNP_P4_104120_46332343	NC_021166.1	Ca_kabuli_chr07	46332343	TT	AA	1946902835
SNP_P4_104121_46332375	NC_021166.1	Ca_kabuli_chr07	46332375	TT	AA	1946902837
SNP_P4_104122_46332401	NC_021166.1	Ca_kabuli_chr07	46332401	TT	AA	1946902839
SNP_P4_104123_46332442	NC_021166.1	Ca_kabuli_chr07	46332442	CC	TT	1946902841
SNP_P4_104124_46332469	NC_021166.1	Ca_kabuli_chr07	46332469	CC	TT	1946902843
SNP_P4_104125_46332470	NC_021166.1	Ca_kabuli_chr07	46332470	AA	TT	1946902845
SNP_P4_104126_46332473	NC_021166.1	Ca_kabuli_chr07	46332473	TT	AA	1946902847
SNP_P4_104127_46338715	NC_021166.1	Ca_kabuli_chr07	46338715	GG	AA	1946902849
SNP_P4_104128_46344539	NC_021166.1	Ca_kabuli_chr07	46344539	GG	AA	1946902851
SNP_P4_104129_46344658	NC_021166.1	Ca_kabuli_chr07	46344658	AA	CC	1946902853
SNP_P4_104131_46361211	NC_021166.1	Ca_kabuli_chr07	46361211	AA	GG	1946902855
SNP_P4_104132_46362030	NC_021166.1	Ca_kabuli_chr07	46362030	AA	GG	1946902857
SNP_P4_104133_46363482	NC_021166.1	Ca_kabuli_chr07	46363482	CC	TT	1946902859
SNP_P4_104134_46366656	NC_021166.1	Ca_kabuli_chr07	46366656	CC	TT	1946902861
SNP_P4_104135_46366670	NC_021166.1	Ca_kabuli_chr07	46366670	CC	AA	1946902863
SNP_P4_104136_46366677	NC_021166.1	Ca_kabuli_chr07	46366677	TT	AA	1946902864
SNP_P4_104137_46416503	NC_021166.1	Ca_kabuli_chr07	46416503	TT	CC	1946902866
SNP_P4_104138_46416534	NC_021166.1	Ca_kabuli_chr07	46416534	GG	AA	1946902868
SNP_P4_104139_46416934	NC_021166.1	Ca_kabuli_chr07	46416934	AA	GG	1946902870
SNP_P4_104140_46417926	NC_021166.1	Ca_kabuli_chr07	46417926	TT	CC	1946902872
SNP_P4_104141_46418098	NC_021166.1	Ca_kabuli_chr07	46418098	AA	GG	1946902874
SNP_P4_104142_46418137	NC_021166.1	Ca_kabuli_chr07	46418137	AA	GG	1946902876
SNP_P4_104143_46418287	NC_021166.1	Ca_kabuli_chr07	46418287	AA	CC	1946902878
SNP_P4_104144_46419987	NC_021166.1	Ca_kabuli_chr07	46419987	GG	TT	1946902880
SNP_P4_104145_46424187	NC_021166.1	Ca_kabuli_chr07	46424187	AA	CC	1946902882
SNP_P4_104146_46432080	NC_021166.1	Ca_kabuli_chr07	46432080	GG	AA	1946902884
SNP_P4_104147_46439003	NC_021166.1	Ca_kabuli_chr07	46439003	TT	CC	1946902886
SNP_P4_104148_46444856	NC_021166.1	Ca_kabuli_chr07	46444856	AA	TT	1946902888
SNP_P4_104149_46444857	NC_021166.1	Ca_kabuli_chr07	46444857	TT	AA	1946902890
SNP_P4_104150_46450466	NC_021166.1	Ca_kabuli_chr07	46450466	GG	AA	1946902892
SNP_P4_104152_46453371	NC_021166.1	Ca_kabuli_chr07	46453371	AA	CC	1946902894
SNP_P4_104153_46453790	NC_021166.1	Ca_kabuli_chr07	46453790	GG	AA	1946902896
SNP_P4_104154_46478835	NC_021166.1	Ca_kabuli_chr07	46478835	GG	TT	1946902898
SNP_P4_104155_46478886	NC_021166.1	Ca_kabuli_chr07	46478886	GG	AA	1946902900
SNP_P4_104156_46478932	NC_021166.1	Ca_kabuli_chr07	46478932	CC	AA	1946902902
SNP_P4_104157_46479493	NC_021166.1	Ca_kabuli_chr07	46479493	CC	TT	1946902904
SNP_P4_104158_46488380	NC_021166.1	Ca_kabuli_chr07	46488380	GG	AA	1946902906

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_104160_46505455	NC_021166.1	Ca_kabuli_chr07	46505455	AA	CC	1946902911
SNP_P4_104161_46505499	NC_021166.1	Ca_kabuli_chr07	46505499	GG	TT	1946902913
SNP_P4_104162_46505538	NC_021166.1	Ca_kabuli_chr07	46505538	CC	AA	1946902915
SNP_P4_104163_46505609	NC_021166.1	Ca_kabuli_chr07	46505609	TT	AA	1946902917
SNP_P4_104165_46537136	NC_021166.1	Ca_kabuli_chr07	46537136	CC	TT	1946902919
SNP_P4_104166_46537138	NC_021166.1	Ca_kabuli_chr07	46537138	CC	TT	1946902921
SNP_P4_104167_46545255	NC_021166.1	Ca_kabuli_chr07	46545255	GG	AA	1946902923
SNP_P4_104168_46549370	NC_021166.1	Ca_kabuli_chr07	46549370	AA	TT	1946902924
SNP_P4_104169_46551442	NC_021166.1	Ca_kabuli_chr07	46551442	GG	AA	1946902926
SNP_P4_104170_46551454	NC_021166.1	Ca_kabuli_chr07	46551454	TT	CC	1946902928
SNP_P4_104171_46551460	NC_021166.1	Ca_kabuli_chr07	46551460	TT	CC	1946902930
SNP_P4_104174_46569958	NC_021166.1	Ca_kabuli_chr07	46569958	CC	AA	1946902932
SNP_P4_104175_46569969	NC_021166.1	Ca_kabuli_chr07	46569969	AA	CC	1946902934
SNP_P4_104176_46570006	NC_021166.1	Ca_kabuli_chr07	46570006	AA	GG	1946902936
SNP_P4_104177_46570251	NC_021166.1	Ca_kabuli_chr07	46570251	CC	TT	1946902939
SNP_P4_104178_46570390	NC_021166.1	Ca_kabuli_chr07	46570390	CC	TT	1946902940
SNP_P4_104179_46570432	NC_021166.1	Ca_kabuli_chr07	46570432	CC	TT	1946902942
SNP_P4_104181_46581178	NC_021166.1	Ca_kabuli_chr07	46581178	AA	TT	1946902945
SNP_P4_104182_46590000	NC_021166.1	Ca_kabuli_chr07	46590000	TT	CC	1946902946
SNP_P4_104183_46594641	NC_021166.1	Ca_kabuli_chr07	46594641	CC	TT	1946902948
SNP_P4_104184_46606903	NC_021166.1	Ca_kabuli_chr07	46606903	TT	CC	1946902951
SNP_P4_104185_46607310	NC_021166.1	Ca_kabuli_chr07	46607310	TT	GG	1946902953
SNP_P4_104186_46608527	NC_021166.1	Ca_kabuli_chr07	46608527	GG	TT	1946902955
SNP_P4_104188_46626654	NC_021166.1	Ca_kabuli_chr07	46626654	GG	AA	1946902957
SNP_P4_104189_46631911	NC_021166.1	Ca_kabuli_chr07	46631911	GG	AA	1946902959
SNP_P4_104191_46657496	NC_021166.1	Ca_kabuli_chr07	46657496	GG	AA	1946902961
SNP_P4_104192_46657516	NC_021166.1	Ca_kabuli_chr07	46657516	AA	GG	1946902964
SNP_P4_104193_46657530	NC_021166.1	Ca_kabuli_chr07	46657530	AA	GG	1946902966
SNP_P4_104196_46667325	NC_021166.1	Ca_kabuli_chr07	46667325	GG	AA	1946902968
SNP_P4_104197_46667335	NC_021166.1	Ca_kabuli_chr07	46667335	TT	CC	1946902970
SNP_P4_104198_46667484	NC_021166.1	Ca_kabuli_chr07	46667484	AA	GG	1946902972
SNP_P4_104199_46707773	NC_021166.1	Ca_kabuli_chr07	46707773	GG	AA	1946902974
SNP_P4_104200_46715903	NC_021166.1	Ca_kabuli_chr07	46715903	GG	CC	1946902976
SNP_P4_104202_46732314	NC_021166.1	Ca_kabuli_chr07	46732314	GG	AA	1946902978
SNP_P4_104204_46736836	NC_021166.1	Ca_kabuli_chr07	46736836	TT	CC	1946902980
SNP_P4_104205_46736841	NC_021166.1	Ca_kabuli_chr07	46736841	CC	AA	1946902982
SNP_P4_104207_46754558	NC_021166.1	Ca_kabuli_chr07	46754558	AA	GG	1946902984
SNP_P4_104208_46770001	NC_021166.1	Ca_kabuli_chr07	46770001	GG	AA	1946902986
SNP_P4_104209_46777803	NC_021166.1	Ca_kabuli_chr07	46777803	TT	CC	1946902988
SNP_P4_104210_46777819	NC_021166.1	Ca_kabuli_chr07	46777819	AA	TT	1946902990
SNP_P4_104211_46777824	NC_021166.1	Ca_kabuli_chr07	46777824	TT	GG	1946902991

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_104213_46782334	NC_021166.1	Ca_kabuli_chr07	46782334	TT	AA	1946902995
SNP_P4_104214_46782377	NC_021166.1	Ca_kabuli_chr07	46782377	TT	AA	1946902997
SNP_P4_104215_46782382	NC_021166.1	Ca_kabuli_chr07	46782382	TT	GG	1946902999
SNP_P4_104216_46807948	NC_021166.1	Ca_kabuli_chr07	46807948	CC	TT	1946903001
SNP_P4_104217_46837867	NC_021166.1	Ca_kabuli_chr07	46837867	TT	CC	1946903003
SNP_P4_104218_46844642	NC_021166.1	Ca_kabuli_chr07	46844642	AA	CC	1946903005
SNP_P4_104219_46844883	NC_021166.1	Ca_kabuli_chr07	46844883	CC	TT	1946903007
SNP_P4_104220_46848091	NC_021166.1	Ca_kabuli_chr07	46848091	TT	AA	1946903009
SNP_P4_104221_46859461	NC_021166.1	Ca_kabuli_chr07	46859461	GG	AA	1946903011
SNP_P4_104222_46885851	NC_021166.1	Ca_kabuli_chr07	46885851	GG	CC	1946903013
SNP_P4_104223_46885895	NC_021166.1	Ca_kabuli_chr07	46885895	AA	TT	1946903015
SNP_P4_104224_46885896	NC_021166.1	Ca_kabuli_chr07	46885896	AA	CC	1946903017
SNP_P4_104225_46885911	NC_021166.1	Ca_kabuli_chr07	46885911	TT	CC	1946903019
SNP_P4_104226_46885912	NC_021166.1	Ca_kabuli_chr07	46885912	TT	CC	1946903021
SNP_P4_104227_46885931	NC_021166.1	Ca_kabuli_chr07	46885931	GG	CC	1946903023
SNP_P4_104228_46886007	NC_021166.1	Ca_kabuli_chr07	46886007	TT	GG	1946903025
SNP_P4_104229_46886062	NC_021166.1	Ca_kabuli_chr07	46886062	CC	AA	1946903027
SNP_P4_104230_46886114	NC_021166.1	Ca_kabuli_chr07	46886114	TT	AA	1946903029
SNP_P4_104231_46886115	NC_021166.1	Ca_kabuli_chr07	46886115	TT	CC	1946903031
SNP_P4_104232_46886135	NC_021166.1	Ca_kabuli_chr07	46886135	AA	GG	1946903033
SNP_P4_104233_46886304	NC_021166.1	Ca_kabuli_chr07	46886304	AA	TT	1946903035
SNP_P4_104234_46890328	NC_021166.1	Ca_kabuli_chr07	46890328	GG	TT	1946903037
SNP_P4_104235_46890329	NC_021166.1	Ca_kabuli_chr07	46890329	TT	AA	1946903039
SNP_P4_104236_46895348	NC_021166.1	Ca_kabuli_chr07	46895348	CC	AA	1946903041
SNP_P4_104238_46918131	NC_021166.1	Ca_kabuli_chr07	46918131	TT	CC	1946903043
SNP_P4_104239_46919510	NC_021166.1	Ca_kabuli_chr07	46919510	AA	GG	1946903045
SNP_P4_104240_46959930	NC_021166.1	Ca_kabuli_chr07	46959930	TT	CC	1946903047
SNP_P4_104241_46960411	NC_021166.1	Ca_kabuli_chr07	46960411	AA	GG	1946903049
SNP_P4_104242_46960516	NC_021166.1	Ca_kabuli_chr07	46960516	TT	CC	1946903050
SNP_P4_104243_46969314	NC_021166.1	Ca_kabuli_chr07	46969314	GG	CC	1946903052
SNP_P4_104245_47014734	NC_021166.1	Ca_kabuli_chr07	47014734	TT	GG	1946903054
SNP_P4_104246_47014741	NC_021166.1	Ca_kabuli_chr07	47014741	TT	GG	1946903056
SNP_P4_104247_47015068	NC_021166.1	Ca_kabuli_chr07	47015068	AA	GG	1946903058
SNP_P4_104248_47015126	NC_021166.1	Ca_kabuli_chr07	47015126	CC	TT	1946903060
SNP_P4_104249_47015128	NC_021166.1	Ca_kabuli_chr07	47015128	AA	GG	1946903062
SNP_P4_104250_47025785	NC_021166.1	Ca_kabuli_chr07	47025785	AA	GG	1946903064
SNP_P4_104251_47032344	NC_021166.1	Ca_kabuli_chr07	47032344	AA	GG	1946903066
SNP_P4_104254_47082772	NC_021166.1	Ca_kabuli_chr07	47082772	GG	CC	1946903068
SNP_P4_104255_47082801	NC_021166.1	Ca_kabuli_chr07	47082801	CC	AA	1946903070
SNP_P4_104256_47083006	NC_021166.1	Ca_kabuli_chr07	47083006	AA	GG	1946903072
SNP_P4_104257_47083035	NC_021166.1	Ca_kabuli_chr07	47083035	GG	AA	1946903074

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_104258_47083036	NC_021166.1	Ca_kabuli_chr07	47083036	TT	AA	1946903076
SNP_P4_104259_47083037	NC_021166.1	Ca_kabuli_chr07	47083037	GG	AA	1946903078
SNP_P4_104260_47083086	NC_021166.1	Ca_kabuli_chr07	47083086	CC	TT	1946903080
SNP_P4_104261_47083091	NC_021166.1	Ca_kabuli_chr07	47083091	CC	TT	1946903082
SNP_P4_104262_47083092	NC_021166.1	Ca_kabuli_chr07	47083092	GG	AA	1946903083
SNP_P4_104263_47083108	NC_021166.1	Ca_kabuli_chr07	47083108	AA	GG	1946903085
SNP_P4_104264_47083180	NC_021166.1	Ca_kabuli_chr07	47083180	TT	CC	1946903087
SNP_P4_104265_47083189	NC_021166.1	Ca_kabuli_chr07	47083189	AA	TT	1946903089
SNP_P4_104266_47083214	NC_021166.1	Ca_kabuli_chr07	47083214	GG	AA	1946903091
SNP_P4_104267_47083219	NC_021166.1	Ca_kabuli_chr07	47083219	AA	TT	1946903093
SNP_P4_104269_47083390	NC_021166.1	Ca_kabuli_chr07	47083390	GG	CC	1946903095
SNP_P4_104270_47084525	NC_021166.1	Ca_kabuli_chr07	47084525	GG	AA	1946903097
SNP_P4_104271_47084568	NC_021166.1	Ca_kabuli_chr07	47084568	CC	TT	1946903099
SNP_P4_104272_47084585	NC_021166.1	Ca_kabuli_chr07	47084585	CC	TT	1946903101
SNP_P4_104273_47084957	NC_021166.1	Ca_kabuli_chr07	47084957	GG	AA	1946903103
SNP_P4_104274_47084975	NC_021166.1	Ca_kabuli_chr07	47084975	TT	CC	1946903104
SNP_P4_104275_47084978	NC_021166.1	Ca_kabuli_chr07	47084978	AA	GG	1946903106
SNP_P4_104276_47084996	NC_021166.1	Ca_kabuli_chr07	47084996	TT	CC	1946903108
SNP_P4_104278_47093349	NC_021166.1	Ca_kabuli_chr07	47093349	GG	AA	1946903110
SNP_P4_104279_47093437	NC_021166.1	Ca_kabuli_chr07	47093437	TT	GG	1946903112
SNP_P4_104280_47093495	NC_021166.1	Ca_kabuli_chr07	47093495	CC	TT	1946903114
SNP_P4_104281_47093668	NC_021166.1	Ca_kabuli_chr07	47093668	GG	CC	1946903116
SNP_P4_104282_47093786	NC_021166.1	Ca_kabuli_chr07	47093786	TT	CC	1946903118
SNP_P4_104283_47093794	NC_021166.1	Ca_kabuli_chr07	47093794	AA	GG	1946903120
SNP_P4_104284_47093816	NC_021166.1	Ca_kabuli_chr07	47093816	TT	CC	1946903122
SNP_P4_104285_47108305	NC_021166.1	Ca_kabuli_chr07	47108305	TT	CC	1946903124
SNP_P4_104286_47108311	NC_021166.1	Ca_kabuli_chr07	47108311	TT	CC	1946903126
SNP_P4_104287_47108344	NC_021166.1	Ca_kabuli_chr07	47108344	AA	GG	1946903128
SNP_P4_104289_47108405	NC_021166.1	Ca_kabuli_chr07	47108405	TT	GG	1946903130
SNP_P4_104290_47108413	NC_021166.1	Ca_kabuli_chr07	47108413	TT	CC	1946903132
SNP_P4_104291_47108685	NC_021166.1	Ca_kabuli_chr07	47108685	GG	CC	1946903134
SNP_P4_104292_47108764	NC_021166.1	Ca_kabuli_chr07	47108764	CC	TT	1946903136
SNP_P4_104293_47123065	NC_021166.1	Ca_kabuli_chr07	47123065	CC	TT	1946903138
SNP_P4_104294_47126482	NC_021166.1	Ca_kabuli_chr07	47126482	GG	AA	1946903140
SNP_P4_104295_47147054	NC_021166.1	Ca_kabuli_chr07	47147054	AA	GG	1946903142
SNP_P4_104296_47147064	NC_021166.1	Ca_kabuli_chr07	47147064	TT	AA	1946903144
SNP_P4_104298_47155527	NC_021166.1	Ca_kabuli_chr07	47155527	AA	GG	1946903146
SNP_P4_104300_47168132	NC_021166.1	Ca_kabuli_chr07	47168132	AA	TT	1946903148
SNP_P4_104301_47168703	NC_021166.1	Ca_kabuli_chr07	47168703	TT	GG	1946903150
SNP_P4_104302_47182829	NC_021166.1	Ca_kabuli_chr07	47182829	CC	TT	1946903152
SNP_P4_104303_47182894	NC_021166.1	Ca_kabuli_chr07	47182894	GG	TT	1946903154
SNP_P4_104304_47182926	NC_021166.1	Ca_kabuli_chr07	47182926	TT	GG	1946903156

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_104306_47182949	NC_021166.1	Ca_kabuli_chr07	47182949	TT	GG	1946903160
SNP_P4_104307_47191886	NC_021166.1	Ca_kabuli_chr07	47191886	TT	CC	1946903162
SNP_P4_104309_47211727	NC_021166.1	Ca_kabuli_chr07	47211727	TT	AA	1946903164
SNP_P4_104310_47243248	NC_021166.1	Ca_kabuli_chr07	47243248	GG	TT	1946903166
SNP_P4_104311_47256215	NC_021166.1	Ca_kabuli_chr07	47256215	CC	TT	1946903168
SNP_P4_104312_47256236	NC_021166.1	Ca_kabuli_chr07	47256236	AA	GG	1946903170
SNP_P4_104313_47256480	NC_021166.1	Ca_kabuli_chr07	47256480	AA	GG	1946903172
SNP_P4_104314_47256481	NC_021166.1	Ca_kabuli_chr07	47256481	GG	AA	1946903174
SNP_P4_104315_47256497	NC_021166.1	Ca_kabuli_chr07	47256497	TT	CC	1946903176
SNP_P4_104316_47257930	NC_021166.1	Ca_kabuli_chr07	47257930	TT	GG	1946903178
SNP_P4_104318_47281178	NC_021166.1	Ca_kabuli_chr07	47281178	TT	CC	1946903180
SNP_P4_104319_47281183	NC_021166.1	Ca_kabuli_chr07	47281183	TT	CC	1946903182
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SNP_P4_104321_47282668	NC_021166.1	Ca_kabuli_chr07	47282668	TT	AA	1946903186
SNP_P4_104322_47282739	NC_021166.1	Ca_kabuli_chr07	47282739	AA	TT	1946903188
SNP_P4_104323_47283671	NC_021166.1	Ca_kabuli_chr07	47283671	GG	TT	1946903190
SNP_P4_104324_47283794	NC_021166.1	Ca_kabuli_chr07	47283794	TT	CC	1946903192
SNP_P4_104325_47284072	NC_021166.1	Ca_kabuli_chr07	47284072	CC	AA	1946903195
SNP_P4_104326_47284323	NC_021166.1	Ca_kabuli_chr07	47284323	AA	CC	1946903197
SNP_P4_104327_47284816	NC_021166.1	Ca_kabuli_chr07	47284816	CC	TT	1946903199
SNP_P4_104329_47295044	NC_021166.1	Ca_kabuli_chr07	47295044	AA	GG	1946903201
SNP_P4_104330_47295047	NC_021166.1	Ca_kabuli_chr07	47295047	AA	GG	1946903203
SNP_P4_104331_47295056	NC_021166.1	Ca_kabuli_chr07	47295056	AA	GG	1946903205
SNP_P4_104332_47295083	NC_021166.1	Ca_kabuli_chr07	47295083	CC	TT	1946903207
SNP_P4_104333_47295143	NC_021166.1	Ca_kabuli_chr07	47295143	CC	GG	1946903209
SNP_P4_104334_47295155	NC_021166.1	Ca_kabuli_chr07	47295155	TT	CC	1946903211
SNP_P4_104335_47295400	NC_021166.1	Ca_kabuli_chr07	47295400	TT	AA	1946903213
SNP_P4_104336_47295404	NC_021166.1	Ca_kabuli_chr07	47295404	TT	AA	1946903215
SNP_P4_104337_47299424	NC_021166.1	Ca_kabuli_chr07	47299424	GG	CC	1946903217
SNP_P4_104338_47299824	NC_021166.1	Ca_kabuli_chr07	47299824	AA	TT	1946903219
SNP_P4_104339_47299863	NC_021166.1	Ca_kabuli_chr07	47299863	AA	CC	1946903221
SNP_P4_104340_47312429	NC_021166.1	Ca_kabuli_chr07	47312429	CC	AA	1946903223
SNP_P4_104341_47324850	NC_021166.1	Ca_kabuli_chr07	47324850	TT	CC	1946903225
SNP_P4_104342_47324945	NC_021166.1	Ca_kabuli_chr07	47324945	AA	GG	1946903227
SNP_P4_104343_47324967	NC_021166.1	Ca_kabuli_chr07	47324967	AA	GG	1946903229
SNP_P4_104344_47324968	NC_021166.1	Ca_kabuli_chr07	47324968	GG	AA	1946903231
SNP_P4_104345_47324975	NC_021166.1	Ca_kabuli_chr07	47324975	AA	TT	1946903233
SNP_P4_104346_47325242	NC_021166.1	Ca_kabuli_chr07	47325242	TT	AA	1946903235
SNP_P4_104347_47325273	NC_021166.1	Ca_kabuli_chr07	47325273	AA	GG	1946903237
SNP_P4_104348_47325296	NC_021166.1	Ca_kabuli_chr07	47325296	CC	TT	1946903239
SNP_P4_104349_47325336	NC_021166.1	Ca_kabuli_chr07	47325336	TT	CC	1946903241

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_104351_47325350	NC_021166.1	Ca_kabuli_chr07	47325350	AA	GG	1946903245
SNP_P4_104352_47327265	NC_021166.1	Ca_kabuli_chr07	47327265	TT	GG	1946903247
SNP_P4_104353_47327305	NC_021166.1	Ca_kabuli_chr07	47327305	CC	TT	1946903249
SNP_P4_104354_47327581	NC_021166.1	Ca_kabuli_chr07	47327581	CC	AA	1946903251
SNP_P4_104355_47327707	NC_021166.1	Ca_kabuli_chr07	47327707	GG	TT	1946903253
SNP_P4_104356_47327711	NC_021166.1	Ca_kabuli_chr07	47327711	TT	CC	1946903255
SNP_P4_104357_47327980	NC_021166.1	Ca_kabuli_chr07	47327980	AA	GG	1946903257
SNP_P4_104358_47327993	NC_021166.1	Ca_kabuli_chr07	47327993	CC	TT	1946903259
SNP_P4_104359_47328001	NC_021166.1	Ca_kabuli_chr07	47328001	GG	TT	1946903261
SNP_P4_104360_47328026	NC_021166.1	Ca_kabuli_chr07	47328026	TT	CC	1946903263
SNP_P4_104361_47335178	NC_021166.1	Ca_kabuli_chr07	47335178	CC	TT	1946903265
SNP_P4_104362_47335180	NC_021166.1	Ca_kabuli_chr07	47335180	CC	GG	1946903266
SNP_P4_104363_47340620	NC_021166.1	Ca_kabuli_chr07	47340620	AA	GG	1946903268
SNP_P4_104364_47343324	NC_021166.1	Ca_kabuli_chr07	47343324	GG	AA	1946903270
SNP_P4_104365_47343329	NC_021166.1	Ca_kabuli_chr07	47343329	AA	GG	1946903272
SNP_P4_104366_47346794	NC_021166.1	Ca_kabuli_chr07	47346794	CC	GG	1946903274
SNP_P4_104367_47346814	NC_021166.1	Ca_kabuli_chr07	47346814	AA	GG	1946903276
SNP_P4_104368_47362164	NC_021166.1	Ca_kabuli_chr07	47362164	AA	GG	1946903278
SNP_P4_104369_47364484	NC_021166.1	Ca_kabuli_chr07	47364484	AA	TT	1946903280
SNP_P4_104372_47384569	NC_021166.1	Ca_kabuli_chr07	47384569	CC	TT	1946903282
SNP_P4_104373_47388959	NC_021166.1	Ca_kabuli_chr07	47388959	TT	GG	1946903284
SNP_P4_104374_47417661	NC_021166.1	Ca_kabuli_chr07	47417661	GG	TT	1946903286
SNP_P4_104375_47417667	NC_021166.1	Ca_kabuli_chr07	47417667	GG	TT	1946903288
SNP_P4_104376_47424983	NC_021166.1	Ca_kabuli_chr07	47424983	TT	AA	1946903290
SNP_P4_104377_47436394	NC_021166.1	Ca_kabuli_chr07	47436394	AA	CC	1946903292
SNP_P4_104378_47441732	NC_021166.1	Ca_kabuli_chr07	47441732	TT	CC	1946903294
SNP_P4_104379_47451078	NC_021166.1	Ca_kabuli_chr07	47451078	AA	CC	1946903296
SNP_P4_104381_47463702	NC_021166.1	Ca_kabuli_chr07	47463702	GG	AA	1946903298
SNP_P4_104382_47466601	NC_021166.1	Ca_kabuli_chr07	47466601	TT	CC	1946903300
SNP_P4_104383_47478804	NC_021166.1	Ca_kabuli_chr07	47478804	GG	AA	1946903302
SNP_P4_104384_47479118	NC_021166.1	Ca_kabuli_chr07	47479118	TT	CC	1946903304
SNP_P4_104385_47484933	NC_021166.1	Ca_kabuli_chr07	47484933	CC	TT	1946903306
SNP_P4_104386_47504265	NC_021166.1	Ca_kabuli_chr07	47504265	AA	GG	1946903308
SNP_P4_104387_47504299	NC_021166.1	Ca_kabuli_chr07	47504299	TT	CC	1946903310
SNP_P4_104388_47504564	NC_021166.1	Ca_kabuli_chr07	47504564	TT	CC	1946903312
SNP_P4_104389_47504607	NC_021166.1	Ca_kabuli_chr07	47504607	AA	GG	1946903314
SNP_P4_104390_47504632	NC_021166.1	Ca_kabuli_chr07	47504632	AA	GG	1946903316
SNP_P4_104391_47505124	NC_021166.1	Ca_kabuli_chr07	47505124	CC	AA	1946903318
SNP_P4_104392_47505524	NC_021166.1	Ca_kabuli_chr07	47505524	AA	CC	1946903320
SNP_P4_104393_47505530	NC_021166.1	Ca_kabuli_chr07	47505530	GG	TT	1946903321
SNP_P4_104394_47505953	NC_021166.1	Ca_kabuli_chr07	47505953	AA	TT	1946903323

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_104396_47518147	NC_021166.1	Ca_kabuli_chr07	47518147	GG	AA	1946903327
SNP_P4_104397_47532500	NC_021166.1	Ca_kabuli_chr07	47532500	AA	GG	1946903329
SNP_P4_104398_47532509	NC_021166.1	Ca_kabuli_chr07	47532509	AA	GG	1946903331
SNP_P4_104399_47535655	NC_021166.1	Ca_kabuli_chr07	47535655	TT	CC	1946903333
SNP_P4_104400_47542311	NC_021166.1	Ca_kabuli_chr07	47542311	GG	AA	1946903335
SNP_P4_104403_47577584	NC_021166.1	Ca_kabuli_chr07	47577584	TT	GG	1946903337
SNP_P4_104404_47598643	NC_021166.1	Ca_kabuli_chr07	47598643	GG	AA	1946903339
SNP_P4_104405_47604349	NC_021166.1	Ca_kabuli_chr07	47604349	TT	GG	1946903341
SNP_P4_104406_47604388	NC_021166.1	Ca_kabuli_chr07	47604388	GG	AA	1946903343
SNP_P4_104407_47604449	NC_021166.1	Ca_kabuli_chr07	47604449	TT	CC	1946903345
SNP_P4_104408_47604626	NC_021166.1	Ca_kabuli_chr07	47604626	TT	GG	1946903347
SNP_P4_104409_47604678	NC_021166.1	Ca_kabuli_chr07	47604678	AA	GG	1946903349
SNP_P4_104410_47605196	NC_021166.1	Ca_kabuli_chr07	47605196	AA	TT	1946903352
SNP_P4_104411_47605302	NC_021166.1	Ca_kabuli_chr07	47605302	CC	TT	1946903354
SNP_P4_104412_47605662	NC_021166.1	Ca_kabuli_chr07	47605662	AA	GG	1946903356
SNP_P4_104413_47621786	NC_021166.1	Ca_kabuli_chr07	47621786	CC	AA	1946903358
SNP_P4_104414_47644879	NC_021166.1	Ca_kabuli_chr07	47644879	AA	GG	1946903360
SNP_P4_104415_47645130	NC_021166.1	Ca_kabuli_chr07	47645130	AA	GG	1946903362
SNP_P4_104416_47645228	NC_021166.1	Ca_kabuli_chr07	47645228	TT	AA	1946903364
SNP_P4_104417_47645299	NC_021166.1	Ca_kabuli_chr07	47645299	TT	GG	1946903366
SNP_P4_104418_47645342	NC_021166.1	Ca_kabuli_chr07	47645342	AA	CC	1946903367
SNP_P4_104419_47645363	NC_021166.1	Ca_kabuli_chr07	47645363	GG	AA	1946903369
SNP_P4_104420_47645391	NC_021166.1	Ca_kabuli_chr07	47645391	TT	AA	1946903372
SNP_P4_104421_47645455	NC_021166.1	Ca_kabuli_chr07	47645455	TT	CC	1946903374
SNP_P4_104422_47657126	NC_021166.1	Ca_kabuli_chr07	47657126	GG	AA	1946903376
SNP_P4_104423_47674233	NC_021166.1	Ca_kabuli_chr07	47674233	CC	TT	1946903378
SNP_P4_104424_47674249	NC_021166.1	Ca_kabuli_chr07	47674249	CC	TT	1946903380
SNP_P4_104427_47689912	NC_021166.1	Ca_kabuli_chr07	47689912	AA	GG	1946903382
SNP_P4_104428_47692848	NC_021166.1	Ca_kabuli_chr07	47692848	GG	TT	1946903384
SNP_P4_104429_47714411	NC_021166.1	Ca_kabuli_chr07	47714411	TT	CC	1946903387
SNP_P4_104430_47714814	NC_021166.1	Ca_kabuli_chr07	47714814	TT	GG	1946903389
SNP_P4_104431_47714862	NC_021166.1	Ca_kabuli_chr07	47714862	AA	GG	1946903391
SNP_P4_104432_47714877	NC_021166.1	Ca_kabuli_chr07	47714877	TT	GG	1946903393
SNP_P4_104433_47715060	NC_021166.1	Ca_kabuli_chr07	47715060	AA	CC	1946903395
SNP_P4_104435_47715317	NC_021166.1	Ca_kabuli_chr07	47715317	CC	TT	1946903397
SNP_P4_104436_47715338	NC_021166.1	Ca_kabuli_chr07	47715338	CC	GG	1946903399
SNP_P4_104437_47715365	NC_021166.1	Ca_kabuli_chr07	47715365	AA	TT	1946903401
SNP_P4_104438_47715413	NC_021166.1	Ca_kabuli_chr07	47715413	AA	CC	1946903403
SNP_P4_104439_47715572	NC_021166.1	Ca_kabuli_chr07	47715572	GG	CC	1946903405
SNP_P4_104440_47715601	NC_021166.1	Ca_kabuli_chr07	47715601	AA	GG	1946903407
SNP_P4_104441_47715636	NC_021166.1	Ca_kabuli_chr07	47715636	TT	GG	1946903409

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_104443_47718345	NC_021166.1	Ca_kabuli_chr07	47718345	TT	AA	1946903413
SNP_P4_104444_47718370	NC_021166.1	Ca_kabuli_chr07	47718370	AA	TT	1946903415
SNP_P4_104445_47718372	NC_021166.1	Ca_kabuli_chr07	47718372	TT	CC	1946903417
SNP_P4_104446_47718373	NC_021166.1	Ca_kabuli_chr07	47718373	CC	TT	1946903419
SNP_P4_104447_47718396	NC_021166.1	Ca_kabuli_chr07	47718396	GG	AA	1946903421
SNP_P4_104448_47718416	NC_021166.1	Ca_kabuli_chr07	47718416	AA	CC	1946903423
SNP_P4_104449_47718441	NC_021166.1	Ca_kabuli_chr07	47718441	AA	GG	1946903425
SNP_P4_104450_47718471	NC_021166.1	Ca_kabuli_chr07	47718471	TT	CC	1946903427
SNP_P4_104451_47718503	NC_021166.1	Ca_kabuli_chr07	47718503	TT	GG	1946903429
SNP_P4_104452_47718547	NC_021166.1	Ca_kabuli_chr07	47718547	CC	GG	1946903432
SNP_P4_104453_47747773	NC_021166.1	Ca_kabuli_chr07	47747773	AA	GG	1946903434
SNP_P4_104454_47764742	NC_021166.1	Ca_kabuli_chr07	47764742	CC	TT	1946903436
SNP_P4_104455_47772319	NC_021166.1	Ca_kabuli_chr07	47772319	AA	GG	1946903438
SNP_P4_104456_47772358	NC_021166.1	Ca_kabuli_chr07	47772358	AA	GG	1946903440
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SNP_P4_104460_47772794	NC_021166.1	Ca_kabuli_chr07	47772794	AA	TT	1946903448
SNP_P4_104461_47778369	NC_021166.1	Ca_kabuli_chr07	47778369	TT	GG	1946903450
SNP_P4_104462_47778370	NC_021166.1	Ca_kabuli_chr07	47778370	GG	TT	1946903452
SNP_P4_104464_47792010	NC_021166.1	Ca_kabuli_chr07	47792010	AA	CC	1946903454
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SNP_P4_104466_47792352	NC_021166.1	Ca_kabuli_chr07	47792352	AA	CC	1946903459
SNP_P4_104467_47792356	NC_021166.1	Ca_kabuli_chr07	47792356	GG	AA	1946903461
SNP_P4_104468_47792372	NC_021166.1	Ca_kabuli_chr07	47792372	TT	AA	1946903463
SNP_P4_104469_47792642	NC_021166.1	Ca_kabuli_chr07	47792642	GG	AA	1946903464
SNP_P4_104470_47794875	NC_021166.1	Ca_kabuli_chr07	47794875	TT	CC	1946903466
SNP_P4_104471_47821984	NC_021166.1	Ca_kabuli_chr07	47821984	TT	AA	1946903468
SNP_P4_104472_47830015	NC_021166.1	Ca_kabuli_chr07	47830015	AA	GG	1946903470
SNP_P4_104473_47830022	NC_021166.1	Ca_kabuli_chr07	47830022	GG	AA	1946903473
SNP_P4_104474_47832027	NC_021166.1	Ca_kabuli_chr07	47832027	GG	AA	1946903475
SNP_P4_104475_47853102	NC_021166.1	Ca_kabuli_chr07	47853102	GG	AA	1946903477
SNP_P4_104476_47855481	NC_021166.1	Ca_kabuli_chr07	47855481	AA	GG	1946903479
SNP_P4_104477_47855484	NC_021166.1	Ca_kabuli_chr07	47855484	AA	GG	1946903481
SNP_P4_104478_47857293	NC_021166.1	Ca_kabuli_chr07	47857293	TT	CC	1946903483
SNP_P4_104479_47857300	NC_021166.1	Ca_kabuli_chr07	47857300	AA	GG	1946903485
SNP_P4_104480_47865009	NC_021166.1	Ca_kabuli_chr07	47865009	TT	AA	1946903487
SNP_P4_104481_47865010	NC_021166.1	Ca_kabuli_chr07	47865010	TT	CC	1946903489
SNP_P4_104482_47865034	NC_021166.1	Ca_kabuli_chr07	47865034	AA	TT	1946903491
SNP_P4_104483_47865102	NC_021166.1	Ca_kabuli_chr07	47865102	AA	GG	1946903493
SNP_P4_104484_47865430	NC_021166.1	Ca_kabuli_chr07	47865430	TT	CC	1946903495

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_104487_47865920	NC_021166.1	Ca_kabuli_chr07	47865920	AA	GG	1946903501
SNP_P4_104488_47865935	NC_021166.1	Ca_kabuli_chr07	47865935	AA	GG	1946903503
SNP_P4_104489_47865937	NC_021166.1	Ca_kabuli_chr07	47865937	TT	GG	1946903505
SNP_P4_104490_47866116	NC_021166.1	Ca_kabuli_chr07	47866116	AA	GG	1946903507
SNP_P4_104491_47866154	NC_021166.1	Ca_kabuli_chr07	47866154	TT	CC	1946903509
SNP_P4_104492_47888109	NC_021166.1	Ca_kabuli_chr07	47888109	GG	AA	1946903511
SNP_P4_104493_47889375	NC_021166.1	Ca_kabuli_chr07	47889375	TT	CC	1946903514
SNP_P4_104494_47906330	NC_021166.1	Ca_kabuli_chr07	47906330	AA	GG	1946903516
SNP_P4_104495_47909452	NC_021166.1	Ca_kabuli_chr07	47909452	TT	CC	1946903518
SNP_P4_104496_47909466	NC_021166.1	Ca_kabuli_chr07	47909466	CC	TT	1946903520
SNP_P4_104497_47909468	NC_021166.1	Ca_kabuli_chr07	47909468	AA	GG	1946903522
SNP_P4_104498_47909472	NC_021166.1	Ca_kabuli_chr07	47909472	TT	CC	1946903524
SNP_P4_104499_47909567	NC_021166.1	Ca_kabuli_chr07	47909567	AA	CC	1946903526
SNP_P4_104500_47909568	NC_021166.1	Ca_kabuli_chr07	47909568	CC	TT	1946903528
SNP_P4_104501_47909611	NC_021166.1	Ca_kabuli_chr07	47909611	CC	TT	1946903530
SNP_P4_104502_47909638	NC_021166.1	Ca_kabuli_chr07	47909638	AA	GG	1946903532
SNP_P4_104503_47909668	NC_021166.1	Ca_kabuli_chr07	47909668	CC	TT	1946903534
SNP_P4_104504_47909686	NC_021166.1	Ca_kabuli_chr07	47909686	GG	AA	1946903536
SNP_P4_104505_47909694	NC_021166.1	Ca_kabuli_chr07	47909694	CC	TT	1946903538
SNP_P4_104506_47909889	NC_021166.1	Ca_kabuli_chr07	47909889	GG	AA	1946903540
SNP_P4_104507_47909910	NC_021166.1	Ca_kabuli_chr07	47909910	TT	CC	1946903542
SNP_P4_104508_47921057	NC_021166.1	Ca_kabuli_chr07	47921057	CC	AA	1946903544
SNP_P4_104510_47927571	NC_021166.1	Ca_kabuli_chr07	47927571	GG	AA	1946903546
SNP_P4_104511_47942098	NC_021166.1	Ca_kabuli_chr07	47942098	AA	GG	1946903548
SNP_P4_104512_47942363	NC_021166.1	Ca_kabuli_chr07	47942363	AA	GG	1946903550
SNP_P4_104513_47942508	NC_021166.1	Ca_kabuli_chr07	47942508	TT	CC	1946903552
SNP_P4_104514_47959494	NC_021166.1	Ca_kabuli_chr07	47959494	TT	GG	1946903554
SNP_P4_104515_47985581	NC_021166.1	Ca_kabuli_chr07	47985581	GG	AA	1946903556
SNP_P4_104516_47985597	NC_021166.1	Ca_kabuli_chr07	47985597	AA	GG	1946903558
SNP_P4_104517_47985601	NC_021166.1	Ca_kabuli_chr07	47985601	TT	AA	1946903560
SNP_P4_104518_47985623	NC_021166.1	Ca_kabuli_chr07	47985623	AA	GG	1946903562
SNP_P4_104519_47985624	NC_021166.1	Ca_kabuli_chr07	47985624	AA	GG	1946903564
SNP_P4_104520_47985674	NC_021166.1	Ca_kabuli_chr07	47985674	AA	GG	1946903566
SNP_P4_104521_47985683	NC_021166.1	Ca_kabuli_chr07	47985683	AA	GG	1946903568
SNP_P4_104522_47990710	NC_021166.1	Ca_kabuli_chr07	47990710	AA	TT	1946903571
SNP_P4_104524_48013300	NC_021166.1	Ca_kabuli_chr07	48013300	CC	TT	1946903573
SNP_P4_104525_48024004	NC_021166.1	Ca_kabuli_chr07	48024004	TT	AA	1946903575
SNP_P4_104526_48024011	NC_021166.1	Ca_kabuli_chr07	48024011	CC	TT	1946903577
SNP_P4_104527_48024047	NC_021166.1	Ca_kabuli_chr07	48024047	CC	TT	1946903579
SNP_P4_104528_48024090	NC_021166.1	Ca_kabuli_chr07	48024090	CC	TT	1946903581

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_104530_48035606	NC_021166.1	Ca_kabuli_chr07	48035606	TT	CC	1946903585
SNP_P4_104531_48035620	NC_021166.1	Ca_kabuli_chr07	48035620	GG	CC	1946903587
SNP_P4_104532_48035668	NC_021166.1	Ca_kabuli_chr07	48035668	AA	GG	1946903589
SNP_P4_104533_48038233	NC_021166.1	Ca_kabuli_chr07	48038233	AA	GG	1946903591
SNP_P4_104534_48038244	NC_021166.1	Ca_kabuli_chr07	48038244	GG	CC	1946903593
SNP_P4_104535_48038427	NC_021166.1	Ca_kabuli_chr07	48038427	TT	CC	1946903595
SNP_P4_104536_48038429	NC_021166.1	Ca_kabuli_chr07	48038429	TT	AA	1946903597
SNP_P4_104537_48067138	NC_021166.1	Ca_kabuli_chr07	48067138	AA	GG	1946903599
SNP_P4_104538_48067144	NC_021166.1	Ca_kabuli_chr07	48067144	TT	CC	1946903600
SNP_P4_104539_48067167	NC_021166.1	Ca_kabuli_chr07	48067167	GG	AA	1946903602
SNP_P4_104540_48069393	NC_021166.1	Ca_kabuli_chr07	48069393	TT	AA	1946903604
SNP_P4_104541_48073468	NC_021166.1	Ca_kabuli_chr07	48073468	CC	TT	1946903606
SNP_P4_104542_48097586	NC_021166.1	Ca_kabuli_chr07	48097586	GG	AA	1946903608
SNP_P4_104543_48097622	NC_021166.1	Ca_kabuli_chr07	48097622	TT	CC	1946903610
SNP_P4_104544_48098019	NC_021166.1	Ca_kabuli_chr07	48098019	AA	GG	1946903612
SNP_P4_104545_48098137	NC_021166.1	Ca_kabuli_chr07	48098137	TT	GG	1946903614
SNP_P4_104546_48145009	NC_021166.1	Ca_kabuli_chr07	48145009	GG	AA	1946903616
SNP_P4_104547_48145043	NC_021166.1	Ca_kabuli_chr07	48145043	GG	CC	1946903619
SNP_P4_104548_48181446	NC_021166.1	Ca_kabuli_chr07	48181446	TT	AA	1946903621
SNP_P4_104549_48188632	NC_021166.1	Ca_kabuli_chr07	48188632	TT	CC	1946903623
SNP_P4_104550_48190658	NC_021166.1	Ca_kabuli_chr07	48190658	TT	GG	1946903625
SNP_P4_104551_48190809	NC_021166.1	Ca_kabuli_chr07	48190809	AA	GG	1946903627
SNP_P4_104552_48191071	NC_021166.1	Ca_kabuli_chr07	48191071	GG	TT	1946903629
SNP_P4_104553_48210936	NC_021166.1	Ca_kabuli_chr07	48210936	CC	GG	1946903631
SNP_P4_104554_48246077	NC_021166.1	Ca_kabuli_chr07	48246077	CC	AA	1946903633
SNP_P4_104555_48246106	NC_021166.1	Ca_kabuli_chr07	48246106	CC	TT	1946903635
SNP_P4_104556_48246118	NC_021166.1	Ca_kabuli_chr07	48246118	TT	CC	1946903637
SNP_P4_104557_48246119	NC_021166.1	Ca_kabuli_chr07	48246119	AA	GG	1946903639
SNP_P4_104558_48246126	NC_021166.1	Ca_kabuli_chr07	48246126	TT	CC	1946903641
SNP_P4_104559_48246183	NC_021166.1	Ca_kabuli_chr07	48246183	CC	TT	1946903643
SNP_P4_104560_48246230	NC_021166.1	Ca_kabuli_chr07	48246230	GG	AA	1946903645
SNP_P4_104561_48246268	NC_021166.1	Ca_kabuli_chr07	48246268	GG	AA	1946903647
SNP_P4_104562_48246269	NC_021166.1	Ca_kabuli_chr07	48246269	TT	CC	1946903649
SNP_P4_104563_48246271	NC_021166.1	Ca_kabuli_chr07	48246271	GG	AA	1946903651
SNP_P4_104564_48246297	NC_021166.1	Ca_kabuli_chr07	48246297	TT	CC	1946903653
SNP_P4_104565_48246382	NC_021166.1	Ca_kabuli_chr07	48246382	TT	CC	1946903655
SNP_P4_104566_48246416	NC_021166.1	Ca_kabuli_chr07	48246416	AA	GG	1946903657
SNP_P4_104567_48246441	NC_021166.1	Ca_kabuli_chr07	48246441	TT	CC	1946903659
SNP_P4_104568_48246496	NC_021166.1	Ca_kabuli_chr07	48246496	TT	CC	1946903661
SNP_P4_104569_48246612	NC_021166.1	Ca_kabuli_chr07	48246612	TT	AA	1946903663
SNP_P4_104570_48246650	NC_021166.1	Ca_kabuli_chr07	48246650	TT	CC	1946903665

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_104572_48284451	NC_021166.1	Ca_kabuli_chr07	48284451	AA	TT	1946903669
SNP_P4_104573_48309167	NC_021166.1	Ca_kabuli_chr07	48309167	GG	AA	1946903671
SNP_P4_104574_48311568	NC_021166.1	Ca_kabuli_chr07	48311568	CC	TT	1946903674
SNP_P4_104575_48311570	NC_021166.1	Ca_kabuli_chr07	48311570	AA	GG	1946903676
SNP_P4_104576_48311590	NC_021166.1	Ca_kabuli_chr07	48311590	AA	GG	1946903678
SNP_P4_104577_48311630	NC_021166.1	Ca_kabuli_chr07	48311630	AA	GG	1946903680
SNP_P4_104579_48312060	NC_021166.1	Ca_kabuli_chr07	48312060	GG	TT	1946903682
SNP_P4_104580_48312062	NC_021166.1	Ca_kabuli_chr07	48312062	TT	GG	1946903684
SNP_P4_104581_48312086	NC_021166.1	Ca_kabuli_chr07	48312086	GG	TT	1946903686
SNP_P4_104583_48312135	NC_021166.1	Ca_kabuli_chr07	48312135	CC	AA	1946903688
SNP_P4_104584_48312156	NC_021166.1	Ca_kabuli_chr07	48312156	CC	AA	1946903690
SNP_P4_104585_48312159	NC_021166.1	Ca_kabuli_chr07	48312159	GG	TT	1946903692
SNP_P4_104586_48312514	NC_021166.1	Ca_kabuli_chr07	48312514	AA	GG	1946903694
SNP_P4_104587_48312532	NC_021166.1	Ca_kabuli_chr07	48312532	TT	GG	1946903697
SNP_P4_104588_48312544	NC_021166.1	Ca_kabuli_chr07	48312544	AA	GG	1946903699
SNP_P4_104590_48312576	NC_021166.1	Ca_kabuli_chr07	48312576	TT	CC	1946903701
SNP_P4_104591_48312601	NC_021166.1	Ca_kabuli_chr07	48312601	AA	GG	1946903703
SNP_P4_104593_48312686	NC_021166.1	Ca_kabuli_chr07	48312686	GG	AA	1946903705
SNP_P4_104594_48312688	NC_021166.1	Ca_kabuli_chr07	48312688	TT	GG	1946903707
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SNP_P4_104596_48312692	NC_021166.1	Ca_kabuli_chr07	48312692	TT	CC	1946903711
SNP_P4_104597_48312966	NC_021166.1	Ca_kabuli_chr07	48312966	CC	AA	1946903713
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SNP_P4_104603_48328305	NC_021166.1	Ca_kabuli_chr07	48328305	AA	TT	1946903725
SNP_P4_104604_48328377	NC_021166.1	Ca_kabuli_chr07	48328377	GG	AA	1946903727
SNP_P4_104605_48328583	NC_021166.1	Ca_kabuli_chr07	48328583	TT	CC	1946903729
SNP_P4_104606_48329894	NC_021166.1	Ca_kabuli_chr07	48329894	AA	GG	1946903731
SNP_P4_104607_48329898	NC_021166.1	Ca_kabuli_chr07	48329898	GG	TT	1946903733
SNP_P4_104608_48329909	NC_021166.1	Ca_kabuli_chr07	48329909	GG	TT	1946903735
SNP_P4_104609_48329964	NC_021166.1	Ca_kabuli_chr07	48329964	TT	CC	1946903737
SNP_P4_104610_48330012	NC_021166.1	Ca_kabuli_chr07	48330012	AA	TT	1946903739
SNP_P4_104611_48330328	NC_021166.1	Ca_kabuli_chr07	48330328	TT	CC	1946903741
SNP_P4_104612_48337071	NC_021166.1	Ca_kabuli_chr07	48337071	TT	CC	1946903743
SNP_P4_104613_48337156	NC_021166.1	Ca_kabuli_chr07	48337156	GG	AA	1946903746
SNP_P4_104614_48337261	NC_021166.1	Ca_kabuli_chr07	48337261	TT	CC	1946903748
SNP_P4_104615_48337267	NC_021166.1	Ca_kabuli_chr07	48337267	TT	GG	1946903750
SNP_P4_104616_48337309	NC_021166.1	Ca_kabuli_chr07	48337309	TT	CC	1946903752

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_104619_48337456	NC_021166.1	Ca_kabuli_chr07	48337456	CC	TT	1946903759
SNP_P4_104620_48337486	NC_021166.1	Ca_kabuli_chr07	48337486	TT	CC	1946903761
SNP_P4_104621_48337547	NC_021166.1	Ca_kabuli_chr07	48337547	GG	AA	1946903763
SNP_P4_104622_48337679	NC_021166.1	Ca_kabuli_chr07	48337679	AA	GG	1946903765
SNP_P4_104623_48366060	NC_021166.1	Ca_kabuli_chr07	48366060	CC	GG	1946903767
SNP_P4_104624_48366129	NC_021166.1	Ca_kabuli_chr07	48366129	TT	CC	1946903769
SNP_P4_104625_48366314	NC_021166.1	Ca_kabuli_chr07	48366314	CC	AA	1946903770
SNP_P4_104626_48366427	NC_021166.1	Ca_kabuli_chr07	48366427	AA	TT	1946903771
SNP_P4_104627_48367034	NC_021166.1	Ca_kabuli_chr07	48367034	CC	TT	1946903772
SNP_P4_104628_48378218	NC_021166.1	Ca_kabuli_chr07	48378218	GG	AA	1946903773
SNP_P4_104629_48390553	NC_021166.1	Ca_kabuli_chr07	48390553	CC	AA	1946903774
SNP_P4_104631_48392132	NC_021166.1	Ca_kabuli_chr07	48392132	AA	CC	1946903775
SNP_P4_104632_48392226	NC_021166.1	Ca_kabuli_chr07	48392226	TT	CC	1946903776
SNP_P4_104633_48392311	NC_021166.1	Ca_kabuli_chr07	48392311	TT	CC	1946903777
SNP_P4_104634_48392323	NC_021166.1	Ca_kabuli_chr07	48392323	AA	GG	1946903779
SNP_P4_104635_48392362	NC_021166.1	Ca_kabuli_chr07	48392362	GG	TT	1946903781
SNP_P4_104636_48392409	NC_021166.1	Ca_kabuli_chr07	48392409	CC	TT	1946903783
SNP_P4_104637_48392490	NC_021166.1	Ca_kabuli_chr07	48392490	CC	TT	1946903785
SNP_P4_104638_48392610	NC_021166.1	Ca_kabuli_chr07	48392610	CC	AA	1946903787
SNP_P4_104639_48392612	NC_021166.1	Ca_kabuli_chr07	48392612	AA	CC	1946903790
SNP_P4_104641_48392699	NC_021166.1	Ca_kabuli_chr07	48392699	TT	AA	1946903792
SNP_P4_104642_48392741	NC_021166.1	Ca_kabuli_chr07	48392741	GG	CC	1946903794
SNP_P4_104643_48392801	NC_021166.1	Ca_kabuli_chr07	48392801	GG	TT	1946903796
SNP_P4_104644_48392915	NC_021166.1	Ca_kabuli_chr07	48392915	AA	GG	1946903798
SNP_P4_104645_48392923	NC_021166.1	Ca_kabuli_chr07	48392923	TT	AA	1946903800
SNP_P4_104646_48393015	NC_021166.1	Ca_kabuli_chr07	48393015	TT	CC	1946903802
SNP_P4_104647_48422190	NC_021166.1	Ca_kabuli_chr07	48422190	CC	TT	1946903804
SNP_P4_104648_48426753	NC_021166.1	Ca_kabuli_chr07	48426753	AA	GG	1946903806
SNP_P4_104649_48426755	NC_021166.1	Ca_kabuli_chr07	48426755	GG	TT	1946903808
SNP_P4_104651_48429431	NC_021166.1	Ca_kabuli_chr07	48429431	AA	GG	1946903810
SNP_P4_104652_48429450	NC_021166.1	Ca_kabuli_chr07	48429450	CC	AA	1946903812
SNP_P4_104653_48429507	NC_021166.1	Ca_kabuli_chr07	48429507	GG	TT	1946903815
SNP_P4_104654_48429629	NC_021166.1	Ca_kabuli_chr07	48429629	GG	AA	1946903817
SNP_P4_104655_48436553	NC_021166.1	Ca_kabuli_chr07	48436553	AA	GG	1946903819
SNP_P4_104657_48437089	NC_021166.1	Ca_kabuli_chr07	48437089	AA	TT	1946903821
SNP_P4_104658_48437110	NC_021166.1	Ca_kabuli_chr07	48437110	CC	TT	1946903823
SNP_P4_104660_48498134	NC_021166.1	Ca_kabuli_chr07	48498134	AA	TT	1946903825
SNP_P4_104661_48498166	NC_021166.1	Ca_kabuli_chr07	48498166	CC	TT	1946903827
SNP_P4_104662_48506854	NC_021166.1	Ca_kabuli_chr07	48506854	CC	AA	1946903829
SNP_P4_104663_48535881	NC_021166.1	Ca_kabuli_chr07	48535881	AA	CC	1946903831

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_104665_48611308	NC_021166.1	Ca_kabuli_chr07	48611308	TT	CC	1946903835
SNP_P4_104666_48611464	NC_021166.1	Ca_kabuli_chr07	48611464	TT	AA	1946903838
SNP_P4_104667_48611515	NC_021166.1	Ca_kabuli_chr07	48611515	CC	TT	1946903840
SNP_P4_104668_48611542	NC_021166.1	Ca_kabuli_chr07	48611542	TT	CC	1946903842
SNP_P4_104669_48612016	NC_021166.1	Ca_kabuli_chr07	48612016	CC	TT	1946903844
SNP_P4_104670_48616509	NC_021166.1	Ca_kabuli_chr07	48616509	TT	GG	1946903846
SNP_P4_104671_48616542	NC_021166.1	Ca_kabuli_chr07	48616542	TT	GG	1946903848
SNP_P4_104672_48616559	NC_021166.1	Ca_kabuli_chr07	48616559	AA	CC	1946903850
SNP_P4_104673_48631826	NC_021166.1	Ca_kabuli_chr07	48631826	CC	TT	1946903852
SNP_P4_104674_48634017	NC_021166.1	Ca_kabuli_chr07	48634017	AA	GG	1946903854
SNP_P4_104675_48636935	NC_021166.1	Ca_kabuli_chr07	48636935	AA	CC	1946903856
SNP_P4_104676_48636950	NC_021166.1	Ca_kabuli_chr07	48636950	GG	AA	1946903858
SNP_P4_104677_48664964	NC_021166.1	Ca_kabuli_chr07	48664964	GG	TT	1946903860
SNP_P4_104679_48677857	NC_021166.1	Ca_kabuli_chr07	48677857	AA	GG	1946903862
SNP_P4_104680_48677897	NC_021166.1	Ca_kabuli_chr07	48677897	AA	TT	1946903864
SNP_P4_104681_48678170	NC_021166.1	Ca_kabuli_chr07	48678170	AA	GG	1946903866
SNP_P4_104682_48678186	NC_021166.1	Ca_kabuli_chr07	48678186	CC	TT	1946903868
SNP_P4_104683_48678272	NC_021166.1	Ca_kabuli_chr07	48678272	CC	AA	1946903870
SNP_P4_104684_48678279	NC_021166.1	Ca_kabuli_chr07	48678279	AA	CC	1946903872
SNP_P4_104685_48678289	NC_021166.1	Ca_kabuli_chr07	48678289	AA	GG	1946903874
SNP_P4_104686_48678292	NC_021166.1	Ca_kabuli_chr07	48678292	AA	GG	1946903876
SNP_P4_104687_48678296	NC_021166.1	Ca_kabuli_chr07	48678296	TT	CC	1946903878
SNP_P4_104688_48678369	NC_021166.1	Ca_kabuli_chr07	48678369	GG	AA	1946903880
SNP_P4_104689_48678525	NC_021166.1	Ca_kabuli_chr07	48678525	CC	TT	1946903882
SNP_P4_104690_48678533	NC_021166.1	Ca_kabuli_chr07	48678533	TT	CC	1946903884
SNP_P4_104691_48678540	NC_021166.1	Ca_kabuli_chr07	48678540	AA	GG	1946903886
SNP_P4_104692_48678546	NC_021166.1	Ca_kabuli_chr07	48678546	TT	CC	1946903888
SNP_P4_104693_48678549	NC_021166.1	Ca_kabuli_chr07	48678549	CC	TT	1946903890
SNP_P4_104694_48678567	NC_021166.1	Ca_kabuli_chr07	48678567	TT	CC	1946903892
SNP_P4_104695_48678572	NC_021166.1	Ca_kabuli_chr07	48678572	CC	TT	1946903894
SNP_P4_104696_48678582	NC_021166.1	Ca_kabuli_chr07	48678582	CC	TT	1946903896
SNP_P4_104697_48678607	NC_021166.1	Ca_kabuli_chr07	48678607	AA	GG	1946903898
SNP_P4_104698_48679572	NC_021166.1	Ca_kabuli_chr07	48679572	GG	AA	1946903901
SNP_P4_104699_48703776	NC_021166.1	Ca_kabuli_chr07	48703776	CC	TT	1946903903
SNP_P4_104701_48736810	NC_021166.1	Ca_kabuli_chr07	48736810	AA	TT	1946903905
SNP_P4_104702_48748318	NC_021166.1	Ca_kabuli_chr07	48748318	TT	GG	1946903907
SNP_P4_104703_48750090	NC_021166.1	Ca_kabuli_chr07	48750090	GG	AA	1946903909
SNP_P4_104704_48750091	NC_021166.1	Ca_kabuli_chr07	48750091	TT	CC	1946903911
SNP_P4_104705_48768709	NC_021166.1	Ca_kabuli_chr07	48768709	CC	TT	1946903913
SNP_P4_104706_48768757	NC_021166.1	Ca_kabuli_chr07	48768757	GG	TT	1946903915
SNP_P4_104707_48785109	NC_021166.1	Ca_kabuli_chr07	48785109	CC	TT	1946903917

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_104709_48788157	NC_021166.1	Ca_kabuli_chr07	48788157	CC	AA	1946903921
SNP_P4_104710_48788311	NC_021166.1	Ca_kabuli_chr07	48788311	AA	CC	1946903923
SNP_P4_104711_48788363	NC_021166.1	Ca_kabuli_chr07	48788363	GG	TT	1946903925
SNP_P4_104712_48788367	NC_021166.1	Ca_kabuli_chr07	48788367	GG	AA	1946903927
SNP_P4_104713_48788723	NC_021166.1	Ca_kabuli_chr07	48788723	AA	GG	1946903929
SNP_P4_104714_48790876	NC_021166.1	Ca_kabuli_chr07	48790876	CC	TT	1946903931
SNP_P4_104715_48805298	NC_021166.1	Ca_kabuli_chr07	48805298	AA	CC	1946903933
SNP_P4_104717_48814121	NC_021166.1	Ca_kabuli_chr07	48814121	AA	GG	1946903935
SNP_P4_104718_48814330	NC_021166.1	Ca_kabuli_chr07	48814330	CC	AA	1946903937
SNP_P4_104719_48814343	NC_021166.1	Ca_kabuli_chr07	48814343	CC	GG	1946903939
SNP_P4_104720_48818826	NC_021166.1	Ca_kabuli_chr07	48818826	CC	TT	1946903941
SNP_P4_104721_48826482	NC_021166.1	Ca_kabuli_chr07	48826482	GG	TT	1946903943
SNP_P4_104722_48826601	NC_021166.1	Ca_kabuli_chr07	48826601	AA	GG	1946903945
SNP_P4_104723_48826605	NC_021166.1	Ca_kabuli_chr07	48826605	CC	TT	1946903947
SNP_P4_104724_48834815	NC_021166.1	Ca_kabuli_chr07	48834815	TT	CC	1946903949
SNP_P4_104725_48845443	NC_021166.1	Ca_kabuli_chr07	48845443	AA	GG	1946903951
SNP_P4_104726_48845444	NC_021166.1	Ca_kabuli_chr07	48845444	AA	TT	1946903953
SNP_P4_104728_48846307	NC_021166.1	Ca_kabuli_chr07	48846307	AA	TT	1946903955
SNP_P4_104729_48847202	NC_021166.1	Ca_kabuli_chr07	48847202	GG	TT	1946903957
SNP_P4_104730_48847533	NC_021166.1	Ca_kabuli_chr07	48847533	AA	GG	1946903959
SNP_P4_104731_48855881	NC_021166.1	Ca_kabuli_chr07	48855881	TT	CC	1946903961
SNP_P4_104732_48856871	NC_021166.1	Ca_kabuli_chr07	48856871	TT	CC	1946903963
SNP_P4_104733_48856881	NC_021166.1	Ca_kabuli_chr07	48856881	GG	AA	1946903965
SNP_P4_104734_48858275	NC_021166.1	Ca_kabuli_chr07	48858275	CC	TT	1946903967
SNP_P4_104735_48858365	NC_021166.1	Ca_kabuli_chr07	48858365	GG	TT	1946903969
SNP_P4_104736_48858412	NC_021166.1	Ca_kabuli_chr07	48858412	GG	CC	1946903971
SNP_P4_104738_48871999	NC_021166.1	Ca_kabuli_chr07	48871999	TT	GG	1946903973
SNP_P4_104739_48872172	NC_021166.1	Ca_kabuli_chr07	48872172	GG	AA	1946903975
SNP_P4_104740_48872609	NC_021166.1	Ca_kabuli_chr07	48872609	GG	AA	1946903977
SNP_P4_104741_48872610	NC_021166.1	Ca_kabuli_chr07	48872610	AA	TT	1946903979
SNP_P4_104742_48872611	NC_021166.1	Ca_kabuli_chr07	48872611	TT	CC	1946903981
SNP_P4_104743_48872626	NC_021166.1	Ca_kabuli_chr07	48872626	TT	AA	1946903983
SNP_P4_104744_48872667	NC_021166.1	Ca_kabuli_chr07	48872667	GG	AA	1946903985
SNP_P4_104745_48873386	NC_021166.1	Ca_kabuli_chr07	48873386	TT	CC	1946903987
SNP_P4_104747_48877154	NC_021166.1	Ca_kabuli_chr07	48877154	CC	TT	1946903989
SNP_P4_104748_48879234	NC_021166.1	Ca_kabuli_chr07	48879234	TT	AA	1946903991
SNP_P4_104749_48879410	NC_021166.1	Ca_kabuli_chr07	48879410	CC	GG	1946903993
SNP_P4_104750_48879470	NC_021166.1	Ca_kabuli_chr07	48879470	AA	GG	1946903995
SNP_P4_104751_48885114	NC_021166.1	Ca_kabuli_chr07	48885114	GG	AA	1946903997
SNP_P4_104752_48894685	NC_021166.1	Ca_kabuli_chr07	48894685	AA	GG	1946903999
SNP_P4_104753_48918654	NC_021166.1	Ca_kabuli_chr07	48918654	TT	GG	1946904001

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_104755_48925810	NC_021166.1	Ca_kabuli_chr07	48925810	GG	AA	1946904005
SNP_P4_104756_48930975	NC_021166.1	Ca_kabuli_chr07	48930975	TT	CC	1946904007
SNP_P4_104758_48942657	NC_021166.1	Ca_kabuli_chr07	48942657	CC	TT	1946904009
SNP_P4_104759_48943988	NC_021166.1	Ca_kabuli_chr07	48943988	CC	AA	1946904012
SNP_P4_104760_48944154	NC_021166.1	Ca_kabuli_chr07	48944154	AA	CC	1946904014
SNP_P4_104761_48944178	NC_021166.1	Ca_kabuli_chr07	48944178	GG	AA	1946904016
SNP_P4_104762_48944279	NC_021166.1	Ca_kabuli_chr07	48944279	TT	GG	1946904017
SNP_P4_104763_48946048	NC_021166.1	Ca_kabuli_chr07	48946048	GG	AA	1946904019
SNP_P4_104764_48950061	NC_021166.1	Ca_kabuli_chr07	48950061	TT	AA	1946904021
SNP_P4_104766_2648	NC_021167.1	Ca_kabuli_chr08	2648	GG	AA	1946904023
SNP_P4_104767_2666	NC_021167.1	Ca_kabuli_chr08	2666	GG	TT	1946904025
SNP_P4_104768_3915	NC_021167.1	Ca_kabuli_chr08	3915	TT	GG	1946904027
SNP_P4_104769_3917	NC_021167.1	Ca_kabuli_chr08	3917	GG	AA	1946904029
SNP_P4_104770_12731	NC_021167.1	Ca_kabuli_chr08	12731	CC	TT	1946904031
SNP_P4_104771_12748	NC_021167.1	Ca_kabuli_chr08	12748	AA	GG	1946904033
SNP_P4_104772_12786	NC_021167.1	Ca_kabuli_chr08	12786	TT	GG	1946904035
SNP_P4_104773_12826	NC_021167.1	Ca_kabuli_chr08	12826	AA	GG	1946904037
SNP_P4_104774_12884	NC_021167.1	Ca_kabuli_chr08	12884	GG	AA	1946904039
SNP_P4_104775_13151	NC_021167.1	Ca_kabuli_chr08	13151	CC	TT	1946904041
SNP_P4_104777_13947	NC_021167.1	Ca_kabuli_chr08	13947	GG	AA	1946904043
SNP_P4_104778_15428	NC_021167.1	Ca_kabuli_chr08	15428	CC	TT	1946904045
SNP_P4_104780_15774	NC_021167.1	Ca_kabuli_chr08	15774	AA	GG	1946904047
SNP_P4_104782_16049	NC_021167.1	Ca_kabuli_chr08	16049	CC	AA	1946904049
SNP_P4_104783_16076	NC_021167.1	Ca_kabuli_chr08	16076	CC	TT	1946904051
SNP_P4_104785_16747	NC_021167.1	Ca_kabuli_chr08	16747	CC	GG	1946904053
SNP_P4_104786_17327	NC_021167.1	Ca_kabuli_chr08	17327	GG	AA	1946904055
SNP_P4_104787_17770	NC_021167.1	Ca_kabuli_chr08	17770	AA	GG	1946904057
SNP_P4_104788_17812	NC_021167.1	Ca_kabuli_chr08	17812	TT	GG	1946904059
SNP_P4_104789_17961	NC_021167.1	Ca_kabuli_chr08	17961	AA	CC	1946904061
SNP_P4_104790_18055	NC_021167.1	Ca_kabuli_chr08	18055	AA	CC	1946904063
SNP_P4_104791_18201	NC_021167.1	Ca_kabuli_chr08	18201	GG	AA	1946904065
SNP_P4_104792_18205	NC_021167.1	Ca_kabuli_chr08	18205	TT	CC	1946904067
SNP_P4_104793_18256	NC_021167.1	Ca_kabuli_chr08	18256	TT	CC	1946904069
SNP_P4_104794_18261	NC_021167.1	Ca_kabuli_chr08	18261	GG	AA	1946904071
SNP_P4_104796_21982	NC_021167.1	Ca_kabuli_chr08	21982	AA	GG	1946904073
SNP_P4_104797_24055	NC_021167.1	Ca_kabuli_chr08	24055	TT	AA	1946904075
SNP_P4_104799_35979	NC_021167.1	Ca_kabuli_chr08	35979	TT	CC	1946904078
SNP_P4_104800_37460	NC_021167.1	Ca_kabuli_chr08	37460	AA	GG	1946904080
SNP_P4_104801_37917	NC_021167.1	Ca_kabuli_chr08	37917	TT	CC	1946904082
SNP_P4_104802_45517	NC_021167.1	Ca_kabuli_chr08	45517	TT	GG	1946904084
SNP_P4_104803_45519	NC_021167.1	Ca_kabuli_chr08	45519	TT	AA	1946904086

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_104805_47640	NC_021167.1	Ca_kabuli_chr08	47640	CC	TT	1946904088
SNP_P4_104806_63067	NC_021167.1	Ca_kabuli_chr08	63067	TT	CC	1946904090
SNP_P4_104807_66004	NC_021167.1	Ca_kabuli_chr08	66004	CC	TT	1946904092
SNP_P4_104810_109604	NC_021167.1	Ca_kabuli_chr08	109604	GG	TT	1946904094
SNP_P4_104811_122636	NC_021167.1	Ca_kabuli_chr08	122636	AA	TT	1946904096
SNP_P4_104812_155383	NC_021167.1	Ca_kabuli_chr08	155383	GG	AA	1946904098
SNP_P4_104813_191214	NC_021167.1	Ca_kabuli_chr08	191214	CC	AA	1946904101
SNP_P4_104814_191376	NC_021167.1	Ca_kabuli_chr08	191376	GG	AA	1946904103
SNP_P4_104815_193824	NC_021167.1	Ca_kabuli_chr08	193824	CC	TT	1946904105
SNP_P4_104816_193858	NC_021167.1	Ca_kabuli_chr08	193858	AA	GG	1946904107
SNP_P4_104817_193908	NC_021167.1	Ca_kabuli_chr08	193908	AA	GG	1946904109
SNP_P4_104818_193959	NC_021167.1	Ca_kabuli_chr08	193959	AA	GG	1946904111
SNP_P4_104819_194046	NC_021167.1	Ca_kabuli_chr08	194046	CC	TT	1946904113
SNP_P4_104820_194130	NC_021167.1	Ca_kabuli_chr08	194130	AA	GG	1946904115
SNP_P4_104821_200021	NC_021167.1	Ca_kabuli_chr08	200021	CC	TT	1946904117
SNP_P4_104822_200036	NC_021167.1	Ca_kabuli_chr08	200036	GG	CC	1946904119
SNP_P4_104823_207167	NC_021167.1	Ca_kabuli_chr08	207167	TT	CC	1946904121
SNP_P4_104824_245292	NC_021167.1	Ca_kabuli_chr08	245292	TT	GG	1946904123
SNP_P4_104825_261088	NC_021167.1	Ca_kabuli_chr08	261088	CC	TT	1946904126
SNP_P4_104826_287411	NC_021167.1	Ca_kabuli_chr08	287411	AA	TT	1946904128
SNP_P4_104827_305437	NC_021167.1	Ca_kabuli_chr08	305437	GG	AA	1946904130
SNP_P4_104828_316251	NC_021167.1	Ca_kabuli_chr08	316251	AA	TT	1946904132
SNP_P4_104829_316441	NC_021167.1	Ca_kabuli_chr08	316441	CC	TT	1946904134
SNP_P4_104830_331038	NC_021167.1	Ca_kabuli_chr08	331038	AA	CC	1946904136
SNP_P4_104831_331056	NC_021167.1	Ca_kabuli_chr08	331056	AA	GG	1946904138
SNP_P4_104832_331198	NC_021167.1	Ca_kabuli_chr08	331198	GG	AA	1946904140
SNP_P4_104833_335259	NC_021167.1	Ca_kabuli_chr08	335259	CC	TT	1946904142
SNP_P4_104834_335406	NC_021167.1	Ca_kabuli_chr08	335406	AA	GG	1946904144
SNP_P4_104835_362179	NC_021167.1	Ca_kabuli_chr08	362179	AA	GG	1946904146
SNP_P4_104836_381755	NC_021167.1	Ca_kabuli_chr08	381755	CC	TT	1946904148
SNP_P4_104837_383509	NC_021167.1	Ca_kabuli_chr08	383509	CC	AA	1946904150
SNP_P4_104839_415095	NC_021167.1	Ca_kabuli_chr08	415095	CC	TT	1946904153
SNP_P4_104841_440254	NC_021167.1	Ca_kabuli_chr08	440254	AA	CC	1946904155
SNP_P4_104844_468708	NC_021167.1	Ca_kabuli_chr08	468708	AA	GG	1946904157
SNP_P4_104846_474249	NC_021167.1	Ca_kabuli_chr08	474249	AA	CC	1946904159
SNP_P4_104847_494317	NC_021167.1	Ca_kabuli_chr08	494317	GG	AA	1946904160
SNP_P4_104848_494479	NC_021167.1	Ca_kabuli_chr08	494479	CC	AA	1946904162
SNP_P4_104849_495424	NC_021167.1	Ca_kabuli_chr08	495424	TT	CC	1946904164
SNP_P4_104850_520301	NC_021167.1	Ca_kabuli_chr08	520301	AA	GG	1946904166
SNP_P4_104851_520302	NC_021167.1	Ca_kabuli_chr08	520302	AA	GG	1946904168
SNP_P4_104853_535646	NC_021167.1	Ca_kabuli_chr08	535646	AA	CC	1946904171
SNP_P4_104854_580770	NC_021167.1	Ca_kabuli_chr08	580770	TT	AA	1946904173

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_104856_615808	NC_021167.1	Ca_kabuli_chr08	615808	TT	GG	1946904177
SNP_P4_104857_696577	NC_021167.1	Ca_kabuli_chr08	696577	TT	CC	1946904179
SNP_P4_104858_696578	NC_021167.1	Ca_kabuli_chr08	696578	TT	GG	1946904181
SNP_P4_104859_751797	NC_021167.1	Ca_kabuli_chr08	751797	GG	AA	1946904183
SNP_P4_104860_754190	NC_021167.1	Ca_kabuli_chr08	754190	CC	TT	1946904185
SNP_P4_104862_760731	NC_021167.1	Ca_kabuli_chr08	760731	CC	TT	1946904187
SNP_P4_104863_784412	NC_021167.1	Ca_kabuli_chr08	784412	AA	GG	1946904189
SNP_P4_104866_815709	NC_021167.1	Ca_kabuli_chr08	815709	TT	GG	1946904191
SNP_P4_104867_866958	NC_021167.1	Ca_kabuli_chr08	866958	AA	CC	1946904193
SNP_P4_104868_867800	NC_021167.1	Ca_kabuli_chr08	867800	CC	AA	1946904195
SNP_P4_104870_906287	NC_021167.1	Ca_kabuli_chr08	906287	AA	CC	1946904197
SNP_P4_104871_906477	NC_021167.1	Ca_kabuli_chr08	906477	CC	AA	1946904200
SNP_P4_104872_920310	NC_021167.1	Ca_kabuli_chr08	920310	TT	GG	1946904202
SNP_P4_104873_938139	NC_021167.1	Ca_kabuli_chr08	938139	CC	TT	1946904204
SNP_P4_104874_938404	NC_021167.1	Ca_kabuli_chr08	938404	CC	TT	1946904206
SNP_P4_104875_938437	NC_021167.1	Ca_kabuli_chr08	938437	CC	TT	1946904208
SNP_P4_104876_938551	NC_021167.1	Ca_kabuli_chr08	938551	TT	CC	1946904210
SNP_P4_104877_960918	NC_021167.1	Ca_kabuli_chr08	960918	AA	TT	1946904212
SNP_P4_104879_1080050	NC_021167.1	Ca_kabuli_chr08	1080050	AA	GG	1946904214
SNP_P4_104880_1080054	NC_021167.1	Ca_kabuli_chr08	1080054	GG	AA	1946904216
SNP_P4_104881_1085102	NC_021167.1	Ca_kabuli_chr08	1085102	CC	TT	1946904218
SNP_P4_104882_1130023	NC_021167.1	Ca_kabuli_chr08	1130023	GG	CC	1946904220
SNP_P4_104883_1134537	NC_021167.1	Ca_kabuli_chr08	1134537	TT	CC	1946904222
SNP_P4_104885_1183945	NC_021167.1	Ca_kabuli_chr08	1183945	GG	TT	1946904224
SNP_P4_104887_1185411	NC_021167.1	Ca_kabuli_chr08	1185411	CC	TT	1946904226
SNP_P4_104888_1185446	NC_021167.1	Ca_kabuli_chr08	1185446	CC	TT	1946904228
SNP_P4_104890_1205613	NC_021167.1	Ca_kabuli_chr08	1205613	CC	TT	1946904230
SNP_P4_104891_1223371	NC_021167.1	Ca_kabuli_chr08	1223371	AA	CC	1946904232
SNP_P4_104892_1243535	NC_021167.1	Ca_kabuli_chr08	1243535	AA	CC	1946904234
SNP_P4_104893_1243945	NC_021167.1	Ca_kabuli_chr08	1243945	CC	TT	1946904236
SNP_P4_104894_1246210	NC_021167.1	Ca_kabuli_chr08	1246210	GG	TT	1946904238
SNP_P4_104895_1284098	NC_021167.1	Ca_kabuli_chr08	1284098	CC	AA	1946904240
SNP_P4_104896_1343026	NC_021167.1	Ca_kabuli_chr08	1343026	GG	CC	1946904242
SNP_P4_104897_1343055	NC_021167.1	Ca_kabuli_chr08	1343055	AA	CC	1946904244
SNP_P4_104898_1343265	NC_021167.1	Ca_kabuli_chr08	1343265	AA	GG	1946904246
SNP_P4_104899_1343297	NC_021167.1	Ca_kabuli_chr08	1343297	AA	GG	1946904248
SNP_P4_104900_1343311	NC_021167.1	Ca_kabuli_chr08	1343311	AA	GG	1946904250
SNP_P4_104902_1349456	NC_021167.1	Ca_kabuli_chr08	1349456	GG	AA	1946904252
SNP_P4_104903_1352423	NC_021167.1	Ca_kabuli_chr08	1352423	TT	CC	1946904254
SNP_P4_104904_1353119	NC_021167.1	Ca_kabuli_chr08	1353119	GG	AA	1946904256
SNP_P4_104905_1353125	NC_021167.1	Ca_kabuli_chr08	1353125	AA	GG	1946904258

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_104907_1354783	NC_021167.1	Ca_kabuli_chr08	1354783	GG	AA	1946904262
SNP_P4_104909_1378968	NC_021167.1	Ca_kabuli_chr08	1378968	AA	GG	1946904265
SNP_P4_104910_1389083	NC_021167.1	Ca_kabuli_chr08	1389083	TT	CC	1946904267
SNP_P4_104911_1393441	NC_021167.1	Ca_kabuli_chr08	1393441	AA	CC	1946904269
SNP_P4_104912_1396928	NC_021167.1	Ca_kabuli_chr08	1396928	GG	AA	1946904271
SNP_P4_104913_1430819	NC_021167.1	Ca_kabuli_chr08	1430819	AA	CC	1946904273
SNP_P4_104914_1430822	NC_021167.1	Ca_kabuli_chr08	1430822	AA	TT	1946904275
SNP_P4_104915_1439580	NC_021167.1	Ca_kabuli_chr08	1439580	CC	AA	1946904277
SNP_P4_104917_1449000	NC_021167.1	Ca_kabuli_chr08	1449000	TT	AA	1946904279
SNP_P4_104920_1473064	NC_021167.1	Ca_kabuli_chr08	1473064	GG	AA	1946904281
SNP_P4_104921_1500184	NC_021167.1	Ca_kabuli_chr08	1500184	CC	TT	1946904283
SNP_P4_104924_1525210	NC_021167.1	Ca_kabuli_chr08	1525210	TT	CC	1946904285
SNP_P4_104925_1530812	NC_021167.1	Ca_kabuli_chr08	1530812	AA	GG	1946904287
SNP_P4_104926_1542443	NC_021167.1	Ca_kabuli_chr08	1542443	GG	AA	1946904289
SNP_P4_104928_1548323	NC_021167.1	Ca_kabuli_chr08	1548323	GG	AA	1946904292
SNP_P4_104929_1560816	NC_021167.1	Ca_kabuli_chr08	1560816	AA	GG	1946904293
SNP_P4_104932_1577131	NC_021167.1	Ca_kabuli_chr08	1577131	GG	TT	1946904295
SNP_P4_104933_1583212	NC_021167.1	Ca_kabuli_chr08	1583212	AA	TT	1946904297
SNP_P4_104934_1586657	NC_021167.1	Ca_kabuli_chr08	1586657	GG	TT	1946904300
SNP_P4_104935_1602001	NC_021167.1	Ca_kabuli_chr08	1602001	AA	GG	1946904302
SNP_P4_104936_1606152	NC_021167.1	Ca_kabuli_chr08	1606152	TT	CC	1946904304
SNP_P4_104937_1616744	NC_021167.1	Ca_kabuli_chr08	1616744	TT	CC	1946904306
SNP_P4_104939_1631242	NC_021167.1	Ca_kabuli_chr08	1631242	AA	TT	1946904308
SNP_P4_104941_1651084	NC_021167.1	Ca_kabuli_chr08	1651084	GG	AA	1946904310
SNP_P4_104943_1670975	NC_021167.1	Ca_kabuli_chr08	1670975	CC	TT	1946904312
SNP_P4_104944_1672452	NC_021167.1	Ca_kabuli_chr08	1672452	AA	TT	1946904314
SNP_P4_104945_1699965	NC_021167.1	Ca_kabuli_chr08	1699965	CC	TT	1946904317
SNP_P4_104946_1699974	NC_021167.1	Ca_kabuli_chr08	1699974	CC	GG	1946904319
SNP_P4_104947_1699990	NC_021167.1	Ca_kabuli_chr08	1699990	AA	GG	1946904322
SNP_P4_104948_1701438	NC_021167.1	Ca_kabuli_chr08	1701438	GG	TT	1946904324
SNP_P4_104949_1701486	NC_021167.1	Ca_kabuli_chr08	1701486	CC	GG	1946904326
SNP_P4_104950_1739997	NC_021167.1	Ca_kabuli_chr08	1739997	GG	AA	1946904328
SNP_P4_104951_1740003	NC_021167.1	Ca_kabuli_chr08	1740003	CC	TT	1946904330
SNP_P4_104952_1740020	NC_021167.1	Ca_kabuli_chr08	1740020	AA	CC	1946904332
SNP_P4_104956_1824210	NC_021167.1	Ca_kabuli_chr08	1824210	AA	GG	1946904334
SNP_P4_104957_1827292	NC_021167.1	Ca_kabuli_chr08	1827292	TT	CC	1946904337
SNP_P4_104959_1839195	NC_021167.1	Ca_kabuli_chr08	1839195	TT	AA	1946904339
SNP_P4_104960_1839198	NC_021167.1	Ca_kabuli_chr08	1839198	TT	AA	1946904341
SNP_P4_104961_1863587	NC_021167.1	Ca_kabuli_chr08	1863587	GG	AA	1946904343
SNP_P4_104962_1863599	NC_021167.1	Ca_kabuli_chr08	1863599	CC	TT	1946904345
SNP_P4_104963_1863707	NC_021167.1	Ca_kabuli_chr08	1863707	GG	AA	1946904347

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_104965_1864346	NC_021167.1	Ca_kabuli_chr08	1864346	TT	CC	1946904352
SNP_P4_104966_1864392	NC_021167.1	Ca_kabuli_chr08	1864392	TT	CC	1946904354
SNP_P4_104967_1864403	NC_021167.1	Ca_kabuli_chr08	1864403	AA	GG	1946904356
SNP_P4_104968_1865048	NC_021167.1	Ca_kabuli_chr08	1865048	AA	GG	1946904358
SNP_P4_104969_1868977	NC_021167.1	Ca_kabuli_chr08	1868977	AA	TT	1946904360
SNP_P4_104971_1871359	NC_021167.1	Ca_kabuli_chr08	1871359	AA	GG	1946904362
SNP_P4_104974_1951510	NC_021167.1	Ca_kabuli_chr08	1951510	AA	GG	1946904364
SNP_P4_104975_1963226	NC_021167.1	Ca_kabuli_chr08	1963226	CC	TT	1946904367
SNP_P4_104978_2030373	NC_021167.1	Ca_kabuli_chr08	2030373	CC	AA	1946904371
SNP_P4_104979_2032644	NC_021167.1	Ca_kabuli_chr08	2032644	CC	TT	1946904373
SNP_P4_104980_2032703	NC_021167.1	Ca_kabuli_chr08	2032703	TT	CC	1946904375
SNP_P4_104981_2032994	NC_021167.1	Ca_kabuli_chr08	2032994	TT	CC	1946904377
SNP_P4_104983_2033475	NC_021167.1	Ca_kabuli_chr08	2033475	CC	AA	1946904379
SNP_P4_104984_2033544	NC_021167.1	Ca_kabuli_chr08	2033544	TT	CC	1946904381
SNP_P4_104985_2033676	NC_021167.1	Ca_kabuli_chr08	2033676	CC	TT	1946904383
SNP_P4_104986_2033699	NC_021167.1	Ca_kabuli_chr08	2033699	GG	AA	1946904385
SNP_P4_104987_2033802	NC_021167.1	Ca_kabuli_chr08	2033802	TT	CC	1946904387
SNP_P4_104988_2057423	NC_021167.1	Ca_kabuli_chr08	2057423	TT	CC	1946904389
SNP_P4_104992_2099826	NC_021167.1	Ca_kabuli_chr08	2099826	AA	GG	1946904391
SNP_P4_104993_2139976	NC_021167.1	Ca_kabuli_chr08	2139976	GG	AA	1946904393
SNP_P4_104994_2139978	NC_021167.1	Ca_kabuli_chr08	2139978	TT	CC	1946904395
SNP_P4_104995_2160573	NC_021167.1	Ca_kabuli_chr08	2160573	CC	TT	1946904397
SNP_P4_104996_2176257	NC_021167.1	Ca_kabuli_chr08	2176257	CC	AA	1946904399
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SNP_P4_105002_2303380	NC_021167.1	Ca_kabuli_chr08	2303380	AA	GG	1946904407
SNP_P4_105005_2345897	NC_021167.1	Ca_kabuli_chr08	2345897	TT	CC	1946904410
SNP_P4_105006_2345961	NC_021167.1	Ca_kabuli_chr08	2345961	AA	GG	1946904412
SNP_P4_105007_2345971	NC_021167.1	Ca_kabuli_chr08	2345971	AA	GG	1946904414
SNP_P4_105008_2345992	NC_021167.1	Ca_kabuli_chr08	2345992	TT	GG	1946904416
SNP_P4_105009_2346002	NC_021167.1	Ca_kabuli_chr08	2346002	CC	TT	1946904418
SNP_P4_105010_2346043	NC_021167.1	Ca_kabuli_chr08	2346043	TT	CC	1946904420
SNP_P4_105011_2346056	NC_021167.1	Ca_kabuli_chr08	2346056	TT	AA	1946904422
SNP_P4_105012_2346089	NC_021167.1	Ca_kabuli_chr08	2346089	TT	GG	1946904424
SNP_P4_105013_2346123	NC_021167.1	Ca_kabuli_chr08	2346123	TT	GG	1946904426
SNP_P4_105014_2346149	NC_021167.1	Ca_kabuli_chr08	2346149	CC	TT	1946904428
SNP_P4_105015_2346270	NC_021167.1	Ca_kabuli_chr08	2346270	TT	CC	1946904430
SNP_P4_105016_2346274	NC_021167.1	Ca_kabuli_chr08	2346274	GG	AA	1946904432
SNP_P4_105017_2346363	NC_021167.1	Ca_kabuli_chr08	2346363	CC	GG	1946904434
SNP_P4_105018_2346371	NC_021167.1	Ca_kabuli_chr08	2346371	TT	CC	1946904436

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_105020_2353625	NC_021167.1	Ca_kabuli_chr08	2353625	GG	AA	1946904441
SNP_P4_105021_2354260	NC_021167.1	Ca_kabuli_chr08	2354260	GG	TT	1946904443
SNP_P4_105022_2359717	NC_021167.1	Ca_kabuli_chr08	2359717	AA	CC	1946904445
SNP_P4_105023_2424650	NC_021167.1	Ca_kabuli_chr08	2424650	TT	CC	1946904447
SNP_P4_105025_2431063	NC_021167.1	Ca_kabuli_chr08	2431063	CC	TT	1946904449
SNP_P4_105026_2442201	NC_021167.1	Ca_kabuli_chr08	2442201	GG	CC	1946904451
SNP_P4_105027_2451130	NC_021167.1	Ca_kabuli_chr08	2451130	TT	CC	1946904454
SNP_P4_105028_2479847	NC_021167.1	Ca_kabuli_chr08	2479847	AA	CC	1946904456
SNP_P4_105029_2480828	NC_021167.1	Ca_kabuli_chr08	2480828	TT	GG	1946904458
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SNP_P4_105036_2552184	NC_021167.1	Ca_kabuli_chr08	2552184	AA	GG	1946904467
SNP_P4_105037_2608854	NC_021167.1	Ca_kabuli_chr08	2608854	GG	AA	1946904469
SNP_P4_105038_2619874	NC_021167.1	Ca_kabuli_chr08	2619874	GG	AA	1946904471
SNP_P4_105041_2683272	NC_021167.1	Ca_kabuli_chr08	2683272	AA	TT	1946904473
SNP_P4_105044_2884866	NC_021167.1	Ca_kabuli_chr08	2884866	TT	GG	1946904475
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SNP_P4_105046_2934881	NC_021167.1	Ca_kabuli_chr08	2934881	AA	GG	1946904479
SNP_P4_105047_2934884	NC_021167.1	Ca_kabuli_chr08	2934884	TT	AA	1946904481
SNP_P4_105048_2982653	NC_021167.1	Ca_kabuli_chr08	2982653	CC	AA	1946904483
SNP_P4_105051_3037242	NC_021167.1	Ca_kabuli_chr08	3037242	CC	TT	1946904485
SNP_P4_105053_3128361	NC_021167.1	Ca_kabuli_chr08	3128361	CC	TT	1946904487
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SNP_P4_105056_3164069	NC_021167.1	Ca_kabuli_chr08	3164069	AA	GG	1946904493
SNP_P4_105057_3224377	NC_021167.1	Ca_kabuli_chr08	3224377	GG	AA	1946904495
SNP_P4_105059_3266257	NC_021167.1	Ca_kabuli_chr08	3266257	GG	AA	1946904497
SNP_P4_105060_3304441	NC_021167.1	Ca_kabuli_chr08	3304441	AA	GG	1946904499
SNP_P4_105061_3304443	NC_021167.1	Ca_kabuli_chr08	3304443	TT	AA	1946904501
SNP_P4_105062_3330227	NC_021167.1	Ca_kabuli_chr08	3330227	TT	AA	1946904503
SNP_P4_105064_3335083	NC_021167.1	Ca_kabuli_chr08	3335083	TT	GG	1946904505
SNP_P4_105065_3362940	NC_021167.1	Ca_kabuli_chr08	3362940	AA	GG	1946904506
SNP_P4_105066_3362941	NC_021167.1	Ca_kabuli_chr08	3362941	AA	TT	1946904508
SNP_P4_105067_3362957	NC_021167.1	Ca_kabuli_chr08	3362957	AA	TT	1946904510
SNP_P4_105069_3387937	NC_021167.1	Ca_kabuli_chr08	3387937	AA	CC	1946904512
SNP_P4_105070_3388195	NC_021167.1	Ca_kabuli_chr08	3388195	CC	TT	1946904514
SNP_P4_105071_3388213	NC_021167.1	Ca_kabuli_chr08	3388213	CC	TT	1946904516
SNP_P4_105072_3418679	NC_021167.1	Ca_kabuli_chr08	3418679	CC	TT	1946904518
SNP_P4_105073_3475352	NC_021167.1	Ca_kabuli_chr08	3475352	GG	TT	1946904520
SNP_P4_105074_3476415	NC_021167.1	Ca_kabuli_chr08	3476415	GG	AA	1946904522

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_105077_3526934	NC_021167.1	Ca_kabuli_chr08	3526934	TT	AA	1946904524
SNP_P4_105078_3545657	NC_021167.1	Ca_kabuli_chr08	3545657	TT	CC	1946904525
SNP_P4_105079_3545661	NC_021167.1	Ca_kabuli_chr08	3545661	GG	CC	1946904527
SNP_P4_105080_3545848	NC_021167.1	Ca_kabuli_chr08	3545848	TT	GG	1946904529
SNP_P4_105081_3548833	NC_021167.1	Ca_kabuli_chr08	3548833	AA	GG	1946904531
SNP_P4_105083_3573914	NC_021167.1	Ca_kabuli_chr08	3573914	GG	AA	1946904533
SNP_P4_105084_3584654	NC_021167.1	Ca_kabuli_chr08	3584654	CC	TT	1946904535
SNP_P4_105085_3588382	NC_021167.1	Ca_kabuli_chr08	3588382	AA	GG	1946904537
SNP_P4_105086_3588387	NC_021167.1	Ca_kabuli_chr08	3588387	CC	TT	1946904539
SNP_P4_105087_3599664	NC_021167.1	Ca_kabuli_chr08	3599664	GG	TT	1946904541
SNP_P4_105088_3639513	NC_021167.1	Ca_kabuli_chr08	3639513	CC	TT	1946904543
SNP_P4_105089_3644963	NC_021167.1	Ca_kabuli_chr08	3644963	AA	GG	1946904545
SNP_P4_105091_3669318	NC_021167.1	Ca_kabuli_chr08	3669318	AA	GG	1946904547
SNP_P4_105092_3669365	NC_021167.1	Ca_kabuli_chr08	3669365	AA	CC	1946904549
SNP_P4_105093_3669431	NC_021167.1	Ca_kabuli_chr08	3669431	TT	CC	1946904551
SNP_P4_105094_3669689	NC_021167.1	Ca_kabuli_chr08	3669689	AA	GG	1946904553
SNP_P4_105095_3669853	NC_021167.1	Ca_kabuli_chr08	3669853	CC	TT	1946904555
SNP_P4_105096_3669888	NC_021167.1	Ca_kabuli_chr08	3669888	GG	TT	1946904557
SNP_P4_105097_3669942	NC_021167.1	Ca_kabuli_chr08	3669942	TT	CC	1946904559
SNP_P4_105098_3673487	NC_021167.1	Ca_kabuli_chr08	3673487	TT	CC	1946904560
SNP_P4_105099_3673499	NC_021167.1	Ca_kabuli_chr08	3673499	AA	CC	1946904562
SNP_P4_105100_3673586	NC_021167.1	Ca_kabuli_chr08	3673586	TT	CC	1946904564
SNP_P4_105101_3673795	NC_021167.1	Ca_kabuli_chr08	3673795	TT	AA	1946904566
SNP_P4_105102_3695345	NC_021167.1	Ca_kabuli_chr08	3695345	TT	CC	1946904568
SNP_P4_105103_3695347	NC_021167.1	Ca_kabuli_chr08	3695347	TT	AA	1946904570
SNP_P4_105104_3740899	NC_021167.1	Ca_kabuli_chr08	3740899	TT	AA	1946904572
SNP_P4_105105_3777781	NC_021167.1	Ca_kabuli_chr08	3777781	TT	AA	1946904574
SNP_P4_105107_3809247	NC_021167.1	Ca_kabuli_chr08	3809247	TT	CC	1946904576
SNP_P4_105109_3854370	NC_021167.1	Ca_kabuli_chr08	3854370	CC	GG	1946904578
SNP_P4_105110_3894793	NC_021167.1	Ca_kabuli_chr08	3894793	GG	AA	1946904580
SNP_P4_105111_3896792	NC_021167.1	Ca_kabuli_chr08	3896792	AA	TT	1946904582
SNP_P4_105112_3916685	NC_021167.1	Ca_kabuli_chr08	3916685	AA	TT	1946904584
SNP_P4_105113_3935728	NC_021167.1	Ca_kabuli_chr08	3935728	TT	CC	1946904586
SNP_P4_105114_3939906	NC_021167.1	Ca_kabuli_chr08	3939906	TT	GG	1946904588
SNP_P4_105115_3946526	NC_021167.1	Ca_kabuli_chr08	3946526	GG	TT	1946904590
SNP_P4_105116_3947159	NC_021167.1	Ca_kabuli_chr08	3947159	TT	CC	1946904592
SNP_P4_105117_3947560	NC_021167.1	Ca_kabuli_chr08	3947560	AA	GG	1946904594
SNP_P4_105118_3948846	NC_021167.1	Ca_kabuli_chr08	3948846	CC	TT	1946904596
SNP_P4_105119_3953590	NC_021167.1	Ca_kabuli_chr08	3953590	GG	AA	1946904598
SNP_P4_105121_3964201	NC_021167.1	Ca_kabuli_chr08	3964201	TT	AA	1946904600
SNP_P4_105123_3972130	NC_021167.1	Ca_kabuli_chr08	3972130	AA	TT	1946904602
SNP_P4_105124_4012185	NC_021167.1	Ca_kabuli_chr08	4012185	GG	AA	1946904604

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_105126_4015668	NC_021167.1	Ca_kabuli_chr08	4015668	AA	GG	1946904608
SNP_P4_105127_4018355	NC_021167.1	Ca_kabuli_chr08	4018355	TT	CC	1946904610
SNP_P4_105129_4075004	NC_021167.1	Ca_kabuli_chr08	4075004	AA	GG	1946904612
SNP_P4_105130_4075010	NC_021167.1	Ca_kabuli_chr08	4075010	AA	TT	1946904614
SNP_P4_105131_4076903	NC_021167.1	Ca_kabuli_chr08	4076903	AA	GG	1946904616
SNP_P4_105133_4138408	NC_021167.1	Ca_kabuli_chr08	4138408	CC	TT	1946904618
SNP_P4_105134_4140056	NC_021167.1	Ca_kabuli_chr08	4140056	AA	GG	1946904620
SNP_P4_105138_4186400	NC_021167.1	Ca_kabuli_chr08	4186400	GG	TT	1946904622
SNP_P4_105139_4214714	NC_021167.1	Ca_kabuli_chr08	4214714	AA	GG	1946904624
SNP_P4_105140_4214749	NC_021167.1	Ca_kabuli_chr08	4214749	AA	GG	1946904626
SNP_P4_105141_4214807	NC_021167.1	Ca_kabuli_chr08	4214807	GG	AA	1946904628
SNP_P4_105142_4214837	NC_021167.1	Ca_kabuli_chr08	4214837	GG	AA	1946904630
SNP_P4_105143_4216460	NC_021167.1	Ca_kabuli_chr08	4216460	CC	TT	1946904632
SNP_P4_105144_4217751	NC_021167.1	Ca_kabuli_chr08	4217751	TT	CC	1946904634
SNP_P4_105145_4219432	NC_021167.1	Ca_kabuli_chr08	4219432	AA	TT	1946904636
SNP_P4_105150_4256300	NC_021167.1	Ca_kabuli_chr08	4256300	TT	CC	1946904638
SNP_P4_105151_4258922	NC_021167.1	Ca_kabuli_chr08	4258922	AA	TT	1946904640
SNP_P4_105153_4281196	NC_021167.1	Ca_kabuli_chr08	4281196	CC	TT	1946904642
SNP_P4_105154_4292992	NC_021167.1	Ca_kabuli_chr08	4292992	TT	CC	1946904644
SNP_P4_105156_4317020	NC_021167.1	Ca_kabuli_chr08	4317020	CC	TT	1946904646
SNP_P4_105157_4320609	NC_021167.1	Ca_kabuli_chr08	4320609	GG	AA	1946904648
SNP_P4_105158_4330119	NC_021167.1	Ca_kabuli_chr08	4330119	GG	AA	1946904650
SNP_P4_105164_4416584	NC_021167.1	Ca_kabuli_chr08	4416584	CC	TT	1946904652
SNP_P4_105165_4416654	NC_021167.1	Ca_kabuli_chr08	4416654	AA	GG	1946904654
SNP_P4_105166_4423747	NC_021167.1	Ca_kabuli_chr08	4423747	TT	CC	1946904656
SNP_P4_105168_4444949	NC_021167.1	Ca_kabuli_chr08	4444949	TT	CC	1946904659
SNP_P4_105170_4451264	NC_021167.1	Ca_kabuli_chr08	4451264	AA	GG	1946904660
SNP_P4_105171_4480117	NC_021167.1	Ca_kabuli_chr08	4480117	TT	CC	1946904662
SNP_P4_105172_4487593	NC_021167.1	Ca_kabuli_chr08	4487593	CC	TT	1946904665
SNP_P4_105173_4489660	NC_021167.1	Ca_kabuli_chr08	4489660	AA	CC	1946904667
SNP_P4_105174_4490077	NC_021167.1	Ca_kabuli_chr08	4490077	GG	AA	1946904669
SNP_P4_105175_4497095	NC_021167.1	Ca_kabuli_chr08	4497095	GG	AA	1946904671
SNP_P4_105176_4537461	NC_021167.1	Ca_kabuli_chr08	4537461	AA	TT	1946904673
SNP_P4_105177_4537935	NC_021167.1	Ca_kabuli_chr08	4537935	GG	AA	1946904675
SNP_P4_105178_4538232	NC_021167.1	Ca_kabuli_chr08	4538232	CC	TT	1946904677
SNP_P4_105179_4547589	NC_021167.1	Ca_kabuli_chr08	4547589	AA	GG	1946904679
SNP_P4_105180_4585155	NC_021167.1	Ca_kabuli_chr08	4585155	AA	TT	1946904681
SNP_P4_105187_4734199	NC_021167.1	Ca_kabuli_chr08	4734199	CC	GG	1946904683
SNP_P4_105191_4799555	NC_021167.1	Ca_kabuli_chr08	4799555	GG	AA	1946904685
SNP_P4_105192_4808334	NC_021167.1	Ca_kabuli_chr08	4808334	GG	AA	1946904687
SNP_P4_105194_4836435	NC_021167.1	Ca_kabuli_chr08	4836435	CC	TT	1946904689

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_105196_4867088	NC_021167.1	Ca_kabuli_chr08	4867088	CC	AA	1946904691
SNP_P4_105197_4878303	NC_021167.1	Ca_kabuli_chr08	4878303	TT	CC	1946904693
SNP_P4_105198_4896015	NC_021167.1	Ca_kabuli_chr08	4896015	GG	CC	1946904695
SNP_P4_105199_4901909	NC_021167.1	Ca_kabuli_chr08	4901909	CC	AA	1946904697
SNP_P4_105202_4978011	NC_021167.1	Ca_kabuli_chr08	4978011	GG	AA	1946904699
SNP_P4_105203_4981258	NC_021167.1	Ca_kabuli_chr08	4981258	TT	GG	1946904701
SNP_P4_105204_4981469	NC_021167.1	Ca_kabuli_chr08	4981469	CC	TT	1946904703
SNP_P4_105206_4988371	NC_021167.1	Ca_kabuli_chr08	4988371	TT	AA	1946904705
SNP_P4_105208_5017204	NC_021167.1	Ca_kabuli_chr08	5017204	TT	CC	1946904707
SNP_P4_105209_5018455	NC_021167.1	Ca_kabuli_chr08	5018455	GG	AA	1946904709
SNP_P4_105210_5023477	NC_021167.1	Ca_kabuli_chr08	5023477	CC	TT	1946904711
SNP_P4_105211_5023812	NC_021167.1	Ca_kabuli_chr08	5023812	GG	TT	1946904713
SNP_P4_105213_5037559	NC_021167.1	Ca_kabuli_chr08	5037559	AA	GG	1946904715
SNP_P4_105215_5051933	NC_021167.1	Ca_kabuli_chr08	5051933	GG	AA	1946904717
SNP_P4_105217_5062120	NC_021167.1	Ca_kabuli_chr08	5062120	AA	GG	1946904719
SNP_P4_105218_5066951	NC_021167.1	Ca_kabuli_chr08	5066951	GG	AA	1946904721
SNP_P4_105219_5069471	NC_021167.1	Ca_kabuli_chr08	5069471	CC	TT	1946904723
SNP_P4_105220_5069746	NC_021167.1	Ca_kabuli_chr08	5069746	TT	CC	1946904725
SNP_P4_105221_5069765	NC_021167.1	Ca_kabuli_chr08	5069765	AA	GG	1946904727
SNP_P4_105222_5069771	NC_021167.1	Ca_kabuli_chr08	5069771	GG	AA	1946904729
SNP_P4_105223_5069841	NC_021167.1	Ca_kabuli_chr08	5069841	GG	AA	1946904731
SNP_P4_105224_5069915	NC_021167.1	Ca_kabuli_chr08	5069915	TT	GG	1946904733
SNP_P4_105225_5069959	NC_021167.1	Ca_kabuli_chr08	5069959	GG	TT	1946904735
SNP_P4_105226_5069965	NC_021167.1	Ca_kabuli_chr08	5069965	TT	CC	1946904737
SNP_P4_105227_5069979	NC_021167.1	Ca_kabuli_chr08	5069979	AA	CC	1946904739
SNP_P4_105228_5070006	NC_021167.1	Ca_kabuli_chr08	5070006	CC	TT	1946904741
SNP_P4_105229_5070033	NC_021167.1	Ca_kabuli_chr08	5070033	GG	TT	1946904743
SNP_P4_105230_5070040	NC_021167.1	Ca_kabuli_chr08	5070040	AA	CC	1946904745
SNP_P4_105231_5070453	NC_021167.1	Ca_kabuli_chr08	5070453	TT	CC	1946904747
SNP_P4_105232_5075027	NC_021167.1	Ca_kabuli_chr08	5075027	CC	TT	1946904749
SNP_P4_105233_5088382	NC_021167.1	Ca_kabuli_chr08	5088382	AA	CC	1946904751
SNP_P4_105234_5088588	NC_021167.1	Ca_kabuli_chr08	5088588	AA	CC	1946904753
SNP_P4_105235_5088635	NC_021167.1	Ca_kabuli_chr08	5088635	GG	AA	1946904755
SNP_P4_105236_5088818	NC_021167.1	Ca_kabuli_chr08	5088818	CC	TT	1946904758
SNP_P4_105237_5089202	NC_021167.1	Ca_kabuli_chr08	5089202	AA	GG	1946904760
SNP_P4_105238_5089275	NC_021167.1	Ca_kabuli_chr08	5089275	AA	CC	1946904762
SNP_P4_105240_5089501	NC_021167.1	Ca_kabuli_chr08	5089501	TT	GG	1946904764
SNP_P4_105241_5089528	NC_021167.1	Ca_kabuli_chr08	5089528	AA	GG	1946904766
SNP_P4_105242_5092994	NC_021167.1	Ca_kabuli_chr08	5092994	CC	AA	1946904768
SNP_P4_105243_5100544	NC_021167.1	Ca_kabuli_chr08	5100544	AA	GG	1946904770
SNP_P4_105244_5101316	NC_021167.1	Ca_kabuli_chr08	5101316	GG	TT	1946904772
SNP_P4_105245_5111950	NC_021167.1	Ca_kabuli_chr08	5111950	TT	CC	1946904774

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_105246_5130343	NC_021167.1	Ca_kabuli_chr08	5130343	GG	AA	1946904776
SNP_P4_105247_5130368	NC_021167.1	Ca_kabuli_chr08	5130368	CC	AA	1946904778
SNP_P4_105248_5131635	NC_021167.1	Ca_kabuli_chr08	5131635	AA	CC	1946904780
SNP_P4_105249_5131770	NC_021167.1	Ca_kabuli_chr08	5131770	AA	TT	1946904782
SNP_P4_105250_5159769	NC_021167.1	Ca_kabuli_chr08	5159769	CC	TT	1946904784
SNP_P4_105252_5175626	NC_021167.1	Ca_kabuli_chr08	5175626	CC	TT	1946904787
SNP_P4_105253_5183294	NC_021167.1	Ca_kabuli_chr08	5183294	TT	CC	1946904789
SNP_P4_105254_5208145	NC_021167.1	Ca_kabuli_chr08	5208145	AA	CC	1946904791
SNP_P4_105255_5220934	NC_021167.1	Ca_kabuli_chr08	5220934	GG	TT	1946904793
SNP_P4_105256_5221650	NC_021167.1	Ca_kabuli_chr08	5221650	CC	GG	1946904795
SNP_P4_105257_5221706	NC_021167.1	Ca_kabuli_chr08	5221706	GG	TT	1946904797
SNP_P4_105258_5221833	NC_021167.1	Ca_kabuli_chr08	5221833	AA	CC	1946904799
SNP_P4_105259_5221864	NC_021167.1	Ca_kabuli_chr08	5221864	CC	TT	1946904801
SNP_P4_105260_5221873	NC_021167.1	Ca_kabuli_chr08	5221873	CC	TT	1946904803
SNP_P4_105261_5221951	NC_021167.1	Ca_kabuli_chr08	5221951	CC	TT	1946904805
SNP_P4_105262_5221952	NC_021167.1	Ca_kabuli_chr08	5221952	GG	TT	1946904807
SNP_P4_105263_5223639	NC_021167.1	Ca_kabuli_chr08	5223639	TT	CC	1946904809
SNP_P4_105264_5223702	NC_021167.1	Ca_kabuli_chr08	5223702	GG	AA	1946904811
SNP_P4_105265_5223709	NC_021167.1	Ca_kabuli_chr08	5223709	GG	AA	1946904813
SNP_P4_105267_5256498	NC_021167.1	Ca_kabuli_chr08	5256498	AA	GG	1946904815
SNP_P4_105268_5269145	NC_021167.1	Ca_kabuli_chr08	5269145	CC	AA	1946904817
SNP_P4_105269_5269208	NC_021167.1	Ca_kabuli_chr08	5269208	AA	TT	1946904819
SNP_P4_105270_5269309	NC_021167.1	Ca_kabuli_chr08	5269309	TT	CC	1946904821
SNP_P4_105272_5269355	NC_021167.1	Ca_kabuli_chr08	5269355	TT	GG	1946904823
SNP_P4_105273_5269394	NC_021167.1	Ca_kabuli_chr08	5269394	TT	AA	1946904825
SNP_P4_105274_5271017	NC_021167.1	Ca_kabuli_chr08	5271017	CC	TT	1946904827
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SNP_P4_105276_5283200	NC_021167.1	Ca_kabuli_chr08	5283200	GG	AA	1946904831
SNP_P4_105277_5303748	NC_021167.1	Ca_kabuli_chr08	5303748	GG	AA	1946904833
SNP_P4_105278_5319853	NC_021167.1	Ca_kabuli_chr08	5319853	GG	AA	1946904835
SNP_P4_105279_5329964	NC_021167.1	Ca_kabuli_chr08	5329964	TT	AA	1946904837
SNP_P4_105280_5338612	NC_021167.1	Ca_kabuli_chr08	5338612	TT	AA	1946904839
SNP_P4_105281_5338649	NC_021167.1	Ca_kabuli_chr08	5338649	TT	GG	1946904841
SNP_P4_105282_5338650	NC_021167.1	Ca_kabuli_chr08	5338650	TT	GG	1946904843
SNP_P4_105283_5346652	NC_021167.1	Ca_kabuli_chr08	5346652	AA	GG	1946904845
SNP_P4_105284_5358233	NC_021167.1	Ca_kabuli_chr08	5358233	CC	TT	1946904847
SNP_P4_105285_5358621	NC_021167.1	Ca_kabuli_chr08	5358621	TT	AA	1946904849
SNP_P4_105286_5360590	NC_021167.1	Ca_kabuli_chr08	5360590	TT	AA	1946904851
SNP_P4_105291_5380576	NC_021167.1	Ca_kabuli_chr08	5380576	TT	GG	1946904853
SNP_P4_105292_5380580	NC_021167.1	Ca_kabuli_chr08	5380580	GG	AA	1946904856
SNP_P4_105293_5381045	NC_021167.1	Ca_kabuli_chr08	5381045	CC	TT	1946904858
SNP_P4_105294_5410562	NC_021167.1	Ca_kabuli_chr08	5410562	AA	CC	1946904860

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_105297_5464850	NC_021167.1	Ca_kabuli_chr08	5464850	TT	CC	1946904864
SNP_P4_105299_5504601	NC_021167.1	Ca_kabuli_chr08	5504601	AA	GG	1946904866
SNP_P4_105300_5525196	NC_021167.1	Ca_kabuli_chr08	5525196	CC	TT	1946904868
SNP_P4_105302_5544000	NC_021167.1	Ca_kabuli_chr08	5544000	AA	TT	1946904870
SNP_P4_105303_5573290	NC_021167.1	Ca_kabuli_chr08	5573290	AA	TT	1946904872
SNP_P4_105304_5573291	NC_021167.1	Ca_kabuli_chr08	5573291	CC	TT	1946904874
SNP_P4_105305_5578425	NC_021167.1	Ca_kabuli_chr08	5578425	AA	TT	1946904876
SNP_P4_105306_5578988	NC_021167.1	Ca_kabuli_chr08	5578988	CC	TT	1946904878
SNP_P4_105308_5598557	NC_021167.1	Ca_kabuli_chr08	5598557	TT	CC	1946904880
SNP_P4_105310_5601553	NC_021167.1	Ca_kabuli_chr08	5601553	TT	AA	1946904882
SNP_P4_105311_5618755	NC_021167.1	Ca_kabuli_chr08	5618755	GG	AA	1946904884
SNP_P4_105314_5718927	NC_021167.1	Ca_kabuli_chr08	5718927	AA	CC	1946904886
SNP_P4_105315_5718928	NC_021167.1	Ca_kabuli_chr08	5718928	TT	CC	1946904888
SNP_P4_105316_5719139	NC_021167.1	Ca_kabuli_chr08	5719139	CC	TT	1946904890
SNP_P4_105317_5719176	NC_021167.1	Ca_kabuli_chr08	5719176	GG	AA	1946904892
SNP_P4_105318_5719181	NC_021167.1	Ca_kabuli_chr08	5719181	TT	GG	1946904894
SNP_P4_105319_5719191	NC_021167.1	Ca_kabuli_chr08	5719191	CC	TT	1946904896
SNP_P4_105320_5719194	NC_021167.1	Ca_kabuli_chr08	5719194	TT	GG	1946904899
SNP_P4_105321_5719252	NC_021167.1	Ca_kabuli_chr08	5719252	GG	AA	1946904901
SNP_P4_105322_5719296	NC_021167.1	Ca_kabuli_chr08	5719296	GG	TT	1946904903
SNP_P4_105323_5719338	NC_021167.1	Ca_kabuli_chr08	5719338	AA	GG	1946904905
SNP_P4_105324_5719380	NC_021167.1	Ca_kabuli_chr08	5719380	TT	CC	1946904907
SNP_P4_105325_5719399	NC_021167.1	Ca_kabuli_chr08	5719399	AA	GG	1946904909
SNP_P4_105326_5719434	NC_021167.1	Ca_kabuli_chr08	5719434	CC	TT	1946904911
SNP_P4_105327_5719461	NC_021167.1	Ca_kabuli_chr08	5719461	TT	GG	1946904912
SNP_P4_105328_5719625	NC_021167.1	Ca_kabuli_chr08	5719625	CC	GG	1946904915
SNP_P4_105329_5719697	NC_021167.1	Ca_kabuli_chr08	5719697	GG	AA	1946904916
SNP_P4_105330_5719702	NC_021167.1	Ca_kabuli_chr08	5719702	CC	TT	1946904918
SNP_P4_105331_5719724	NC_021167.1	Ca_kabuli_chr08	5719724	CC	TT	1946904920
SNP_P4_105332_5719767	NC_021167.1	Ca_kabuli_chr08	5719767	AA	CC	1946904923
SNP_P4_105333_5719777	NC_021167.1	Ca_kabuli_chr08	5719777	AA	TT	1946904925
SNP_P4_105334_5719783	NC_021167.1	Ca_kabuli_chr08	5719783	TT	CC	1946904927
SNP_P4_105335_5719784	NC_021167.1	Ca_kabuli_chr08	5719784	AA	TT	1946904928
SNP_P4_105336_5719785	NC_021167.1	Ca_kabuli_chr08	5719785	AA	GG	1946904930
SNP_P4_105338_5719978	NC_021167.1	Ca_kabuli_chr08	5719978	GG	CC	1946904933
SNP_P4_105339_5719981	NC_021167.1	Ca_kabuli_chr08	5719981	GG	AA	1946904934
SNP_P4_105341_5720033	NC_021167.1	Ca_kabuli_chr08	5720033	CC	TT	1946904936
SNP_P4_105342_5720037	NC_021167.1	Ca_kabuli_chr08	5720037	CC	TT	1946904939
SNP_P4_105343_5720092	NC_021167.1	Ca_kabuli_chr08	5720092	AA	GG	1946904940
SNP_P4_105344_5720101	NC_021167.1	Ca_kabuli_chr08	5720101	GG	AA	1946904942
SNP_P4_105345_5720118	NC_021167.1	Ca_kabuli_chr08	5720118	TT	AA	1946904944

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_105347_5720149	NC_021167.1	Ca_kabuli_chr08	5720149	CC	TT	1946904949
SNP_P4_105349_5724683	NC_021167.1	Ca_kabuli_chr08	5724683	TT	AA	1946904951
SNP_P4_105350_5733076	NC_021167.1	Ca_kabuli_chr08	5733076	CC	TT	1946904953
SNP_P4_105351_5733085	NC_021167.1	Ca_kabuli_chr08	5733085	GG	AA	1946904955
SNP_P4_105353_5733109	NC_021167.1	Ca_kabuli_chr08	5733109	AA	GG	1946904957
SNP_P4_105354_5733894	NC_021167.1	Ca_kabuli_chr08	5733894	GG	TT	1946904959
SNP_P4_105356_5779449	NC_021167.1	Ca_kabuli_chr08	5779449	TT	GG	1946904961
SNP_P4_105357_5779450	NC_021167.1	Ca_kabuli_chr08	5779450	TT	CC	1946904963
SNP_P4_105358_5812702	NC_021167.1	Ca_kabuli_chr08	5812702	AA	TT	1946904965
SNP_P4_105359_5844346	NC_021167.1	Ca_kabuli_chr08	5844346	TT	AA	1946904967
SNP_P4_105361_5878891	NC_021167.1	Ca_kabuli_chr08	5878891	CC	TT	1946904969
SNP_P4_105362_5879022	NC_021167.1	Ca_kabuli_chr08	5879022	GG	AA	1946904971
SNP_P4_105363_5879126	NC_021167.1	Ca_kabuli_chr08	5879126	AA	GG	1946904973
SNP_P4_105364_5880017	NC_021167.1	Ca_kabuli_chr08	5880017	AA	GG	1946904975
SNP_P4_105365_6037007	NC_021167.1	Ca_kabuli_chr08	6037007	CC	TT	1946904977
SNP_P4_105366_6037011	NC_021167.1	Ca_kabuli_chr08	6037011	AA	GG	1946904979
SNP_P4_105367_6052326	NC_021167.1	Ca_kabuli_chr08	6052326	CC	AA	1946904981
SNP_P4_105368_6055781	NC_021167.1	Ca_kabuli_chr08	6055781	GG	CC	1946904983
SNP_P4_105369_6055966	NC_021167.1	Ca_kabuli_chr08	6055966	CC	TT	1946904985
SNP_P4_105370_6056125	NC_021167.1	Ca_kabuli_chr08	6056125	CC	TT	1946904987
SNP_P4_105371_6056415	NC_021167.1	Ca_kabuli_chr08	6056415	AA	GG	1946904989
SNP_P4_105372_6056427	NC_021167.1	Ca_kabuli_chr08	6056427	TT	GG	1946904991
SNP_P4_105373_6056450	NC_021167.1	Ca_kabuli_chr08	6056450	AA	GG	1946904993
SNP_P4_105374_6056496	NC_021167.1	Ca_kabuli_chr08	6056496	TT	CC	1946904995
SNP_P4_105375_6066992	NC_021167.1	Ca_kabuli_chr08	6066992	GG	TT	1946904997
SNP_P4_105376_6075670	NC_021167.1	Ca_kabuli_chr08	6075670	CC	TT	1946904999
SNP_P4_105377_6076002	NC_021167.1	Ca_kabuli_chr08	6076002	CC	AA	1946905001
SNP_P4_105378_6082364	NC_021167.1	Ca_kabuli_chr08	6082364	GG	AA	1946905003
SNP_P4_105379_6082920	NC_021167.1	Ca_kabuli_chr08	6082920	TT	GG	1946905005
SNP_P4_105380_6086814	NC_021167.1	Ca_kabuli_chr08	6086814	GG	AA	1946905007
SNP_P4_105381_6086830	NC_021167.1	Ca_kabuli_chr08	6086830	AA	GG	1946905009
SNP_P4_105382_6086857	NC_021167.1	Ca_kabuli_chr08	6086857	CC	AA	1946905011
SNP_P4_105383_6086865	NC_021167.1	Ca_kabuli_chr08	6086865	CC	GG	1946905013
SNP_P4_105384_6086867	NC_021167.1	Ca_kabuli_chr08	6086867	GG	AA	1946905015
SNP_P4_105385_6086921	NC_021167.1	Ca_kabuli_chr08	6086921	AA	GG	1946905017
SNP_P4_105386_6086942	NC_021167.1	Ca_kabuli_chr08	6086942	AA	GG	1946905019
SNP_P4_105387_6087236	NC_021167.1	Ca_kabuli_chr08	6087236	CC	TT	1946905021
SNP_P4_105388_6087577	NC_021167.1	Ca_kabuli_chr08	6087577	AA	TT	1946905023
SNP_P4_105389_6087639	NC_021167.1	Ca_kabuli_chr08	6087639	TT	AA	1946905025
SNP_P4_105390_6087664	NC_021167.1	Ca_kabuli_chr08	6087664	AA	GG	1946905027
SNP_P4_105391_6087967	NC_021167.1	Ca_kabuli_chr08	6087967	TT	GG	1946905029

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_105393_6088362	NC_021167.1	Ca_kabuli_chr08	6088362	CC	TT	1946905033
SNP_P4_105397_6128984	NC_021167.1	Ca_kabuli_chr08	6128984	AA	GG	1946905035
SNP_P4_105398_6129406	NC_021167.1	Ca_kabuli_chr08	6129406	AA	GG	1946905037
SNP_P4_105400_6138167	NC_021167.1	Ca_kabuli_chr08	6138167	TT	AA	1946905039
SNP_P4_105401_6170040	NC_021167.1	Ca_kabuli_chr08	6170040	CC	TT	1946905041
SNP_P4_105402_6170243	NC_021167.1	Ca_kabuli_chr08	6170243	CC	TT	1946905043
SNP_P4_105403_6194942	NC_021167.1	Ca_kabuli_chr08	6194942	GG	AA	1946905045
SNP_P4_105404_6198505	NC_021167.1	Ca_kabuli_chr08	6198505	CC	TT	1946905047
SNP_P4_105405_6208643	NC_021167.1	Ca_kabuli_chr08	6208643	GG	TT	1946905049
SNP_P4_105406_6212113	NC_021167.1	Ca_kabuli_chr08	6212113	CC	TT	1946905051
SNP_P4_105407_6243180	NC_021167.1	Ca_kabuli_chr08	6243180	GG	AA	1946905053
SNP_P4_105408_6248937	NC_021167.1	Ca_kabuli_chr08	6248937	CC	AA	1946905055
SNP_P4_105410_6261733	NC_021167.1	Ca_kabuli_chr08	6261733	GG	AA	1946905057
SNP_P4_105411_6270948	NC_021167.1	Ca_kabuli_chr08	6270948	CC	TT	1946905059
SNP_P4_105412_6279718	NC_021167.1	Ca_kabuli_chr08	6279718	CC	TT	1946905061
SNP_P4_105413_6288138	NC_021167.1	Ca_kabuli_chr08	6288138	TT	GG	1946905062
SNP_P4_105414_6292364	NC_021167.1	Ca_kabuli_chr08	6292364	CC	TT	1946905064
SNP_P4_105415_6301007	NC_021167.1	Ca_kabuli_chr08	6301007	CC	TT	1946905066
SNP_P4_105416_6301111	NC_021167.1	Ca_kabuli_chr08	6301111	GG	AA	1946905068
SNP_P4_105417_6301121	NC_021167.1	Ca_kabuli_chr08	6301121	AA	GG	1946905070
SNP_P4_105418_6301413	NC_021167.1	Ca_kabuli_chr08	6301413	GG	TT	1946905072
SNP_P4_105420_6307055	NC_021167.1	Ca_kabuli_chr08	6307055	AA	CC	1946905074
SNP_P4_105421_6307062	NC_021167.1	Ca_kabuli_chr08	6307062	GG	AA	1946905076
SNP_P4_105423_6307197	NC_021167.1	Ca_kabuli_chr08	6307197	CC	TT	1946905078
SNP_P4_105424_6307211	NC_021167.1	Ca_kabuli_chr08	6307211	TT	AA	1946905080
SNP_P4_105425_6307283	NC_021167.1	Ca_kabuli_chr08	6307283	TT	CC	1946905082
SNP_P4_105426_6307319	NC_021167.1	Ca_kabuli_chr08	6307319	TT	CC	1946905084
SNP_P4_105427_6307383	NC_021167.1	Ca_kabuli_chr08	6307383	CC	AA	1946905086
SNP_P4_105428_6307402	NC_021167.1	Ca_kabuli_chr08	6307402	TT	AA	1946905088
SNP_P4_105429_6307426	NC_021167.1	Ca_kabuli_chr08	6307426	TT	CC	1946905090
SNP_P4_105430_6307460	NC_021167.1	Ca_kabuli_chr08	6307460	GG	AA	1946905092
SNP_P4_105432_6330284	NC_021167.1	Ca_kabuli_chr08	6330284	GG	AA	1946905094
SNP_P4_105433_6330288	NC_021167.1	Ca_kabuli_chr08	6330288	CC	TT	1946905096
SNP_P4_105434_6343421	NC_021167.1	Ca_kabuli_chr08	6343421	GG	AA	1946905098
SNP_P4_105435_6347632	NC_021167.1	Ca_kabuli_chr08	6347632	TT	CC	1946905100
SNP_P4_105436_6358852	NC_021167.1	Ca_kabuli_chr08	6358852	CC	GG	1946905102
SNP_P4_105437_6364220	NC_021167.1	Ca_kabuli_chr08	6364220	TT	CC	1946905104
SNP_P4_105438_6364306	NC_021167.1	Ca_kabuli_chr08	6364306	CC	TT	1946905106
SNP_P4_105439_6391216	NC_021167.1	Ca_kabuli_chr08	6391216	TT	AA	1946905108
SNP_P4_105440_6402518	NC_021167.1	Ca_kabuli_chr08	6402518	AA	CC	1946905110
SNP_P4_105441_6419644	NC_021167.1	Ca_kabuli_chr08	6419644	GG	AA	1946905112

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_105443_6466093	NC_021167.1	Ca_kabuli_chr08	6466093	AA	TT	1946905116
SNP_P4_105444_6474547	NC_021167.1	Ca_kabuli_chr08	6474547	TT	AA	1946905118
SNP_P4_105446_6492087	NC_021167.1	Ca_kabuli_chr08	6492087	TT	GG	1946905120
SNP_P4_105447_6492381	NC_021167.1	Ca_kabuli_chr08	6492381	CC	TT	1946905122
SNP_P4_105449_6492558	NC_021167.1	Ca_kabuli_chr08	6492558	TT	AA	1946905124
SNP_P4_105451_6492679	NC_021167.1	Ca_kabuli_chr08	6492679	CC	TT	1946905126
SNP_P4_105453_6492771	NC_021167.1	Ca_kabuli_chr08	6492771	AA	GG	1946905128
SNP_P4_105454_6492900	NC_021167.1	Ca_kabuli_chr08	6492900	GG	AA	1946905130
SNP_P4_105455_6492902	NC_021167.1	Ca_kabuli_chr08	6492902	AA	TT	1946905132
SNP_P4_105456_6492934	NC_021167.1	Ca_kabuli_chr08	6492934	AA	CC	1946905134
SNP_P4_105457_6493025	NC_021167.1	Ca_kabuli_chr08	6493025	AA	GG	1946905136
SNP_P4_105458_6493146	NC_021167.1	Ca_kabuli_chr08	6493146	TT	AA	1946905138
SNP_P4_105459_6493207	NC_021167.1	Ca_kabuli_chr08	6493207	CC	TT	1946905140
SNP_P4_105460_6493236	NC_021167.1	Ca_kabuli_chr08	6493236	CC	AA	1946905143
SNP_P4_105461_6493408	NC_021167.1	Ca_kabuli_chr08	6493408	GG	CC	1946905145
SNP_P4_105462_6493411	NC_021167.1	Ca_kabuli_chr08	6493411	GG	AA	1946905147
SNP_P4_105463_6493412	NC_021167.1	Ca_kabuli_chr08	6493412	AA	CC	1946905149
SNP_P4_105464_6493415	NC_021167.1	Ca_kabuli_chr08	6493415	GG	AA	1946905151
SNP_P4_105465_6493442	NC_021167.1	Ca_kabuli_chr08	6493442	CC	TT	1946905153
SNP_P4_105466_6493444	NC_021167.1	Ca_kabuli_chr08	6493444	AA	GG	1946905155
SNP_P4_105467_6493461	NC_021167.1	Ca_kabuli_chr08	6493461	CC	TT	1946905157
SNP_P4_105468_6517953	NC_021167.1	Ca_kabuli_chr08	6517953	AA	TT	1946905159
SNP_P4_105469_6527994	NC_021167.1	Ca_kabuli_chr08	6527994	AA	TT	1946905161
SNP_P4_105470_6532252	NC_021167.1	Ca_kabuli_chr08	6532252	TT	AA	1946905163
SNP_P4_105471_6546220	NC_021167.1	Ca_kabuli_chr08	6546220	TT	CC	1946905165
SNP_P4_105473_6569359	NC_021167.1	Ca_kabuli_chr08	6569359	CC	TT	1946905167
SNP_P4_105474_6577068	NC_021167.1	Ca_kabuli_chr08	6577068	AA	GG	1946905169
SNP_P4_105475_6606990	NC_021167.1	Ca_kabuli_chr08	6606990	CC	GG	1946905171
SNP_P4_105476_6611332	NC_021167.1	Ca_kabuli_chr08	6611332	CC	TT	1946905173
SNP_P4_105477_6647699	NC_021167.1	Ca_kabuli_chr08	6647699	CC	TT	1946905175
SNP_P4_105479_6665269	NC_021167.1	Ca_kabuli_chr08	6665269	CC	AA	1946905177
SNP_P4_105480_6675560	NC_021167.1	Ca_kabuli_chr08	6675560	CC	TT	1946905179
SNP_P4_105481_6691733	NC_021167.1	Ca_kabuli_chr08	6691733	CC	TT	1946905181
SNP_P4_105482_6729458	NC_021167.1	Ca_kabuli_chr08	6729458	CC	TT	1946905183
SNP_P4_105483_6735234	NC_021167.1	Ca_kabuli_chr08	6735234	TT	AA	1946905185
SNP_P4_105484_6736659	NC_021167.1	Ca_kabuli_chr08	6736659	AA	TT	1946905187
SNP_P4_105485_6736660	NC_021167.1	Ca_kabuli_chr08	6736660	AA	GG	1946905190
SNP_P4_105486_6765459	NC_021167.1	Ca_kabuli_chr08	6765459	GG	AA	1946905192
SNP_P4_105487_6774220	NC_021167.1	Ca_kabuli_chr08	6774220	CC	TT	1946905194
SNP_P4_105489_6792628	NC_021167.1	Ca_kabuli_chr08	6792628	CC	TT	1946905196
SNP_P4_105490_6813468	NC_021167.1	Ca_kabuli_chr08	6813468	TT	CC	1946905198

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_105492_6818011	NC_021167.1	Ca_kabuli_chr08	6818011	GG	AA	1946905200
SNP_P4_105493_6822828	NC_021167.1	Ca_kabuli_chr08	6822828	AA	GG	1946905201
SNP_P4_105494_6824290	NC_021167.1	Ca_kabuli_chr08	6824290	GG	AA	1946905202
SNP_P4_105495_6836043	NC_021167.1	Ca_kabuli_chr08	6836043	AA	TT	1946905203
SNP_P4_105497_6866709	NC_021167.1	Ca_kabuli_chr08	6866709	AA	GG	1946905204
SNP_P4_105498_6897228	NC_021167.1	Ca_kabuli_chr08	6897228	CC	TT	1946905205
SNP_P4_105499_6899452	NC_021167.1	Ca_kabuli_chr08	6899452	GG	AA	1946905206
SNP_P4_105500_6907817	NC_021167.1	Ca_kabuli_chr08	6907817	AA	TT	1946905207
SNP_P4_105501_6910737	NC_021167.1	Ca_kabuli_chr08	6910737	AA	GG	1946905208
SNP_P4_105502_6918847	NC_021167.1	Ca_kabuli_chr08	6918847	AA	GG	1946905209
SNP_P4_105503_6919897	NC_021167.1	Ca_kabuli_chr08	6919897	CC	AA	1946905210
SNP_P4_105504_6924761	NC_021167.1	Ca_kabuli_chr08	6924761	CC	TT	1946905211
SNP_P4_105505_6930391	NC_021167.1	Ca_kabuli_chr08	6930391	TT	AA	1946905212
SNP_P4_105506_6932741	NC_021167.1	Ca_kabuli_chr08	6932741	CC	GG	1946905213
SNP_P4_105507_6934061	NC_021167.1	Ca_kabuli_chr08	6934061	GG	AA	1946905214
SNP_P4_105509_6950503	NC_021167.1	Ca_kabuli_chr08	6950503	AA	CC	1946905216
SNP_P4_105510_6953155	NC_021167.1	Ca_kabuli_chr08	6953155	AA	GG	1946905218
SNP_P4_105512_6978326	NC_021167.1	Ca_kabuli_chr08	6978326	GG	AA	1946905220
SNP_P4_105513_6978918	NC_021167.1	Ca_kabuli_chr08	6978918	GG	AA	1946905222
SNP_P4_105515_7030370	NC_021167.1	Ca_kabuli_chr08	7030370	TT	AA	1946905224
SNP_P4_105519_7108083	NC_021167.1	Ca_kabuli_chr08	7108083	TT	CC	1946905226
SNP_P4_105520_7129623	NC_021167.1	Ca_kabuli_chr08	7129623	AA	GG	1946905228
SNP_P4_105521_7129626	NC_021167.1	Ca_kabuli_chr08	7129626	TT	GG	1946905230
SNP_P4_105522_7133603	NC_021167.1	Ca_kabuli_chr08	7133603	GG	AA	1946905232
SNP_P4_105523_7155393	NC_021167.1	Ca_kabuli_chr08	7155393	AA	GG	1946905234
SNP_P4_105524_7155432	NC_021167.1	Ca_kabuli_chr08	7155432	TT	GG	1946905236
SNP_P4_105525_7155553	NC_021167.1	Ca_kabuli_chr08	7155553	CC	TT	1946905238
SNP_P4_105526_7155687	NC_021167.1	Ca_kabuli_chr08	7155687	TT	GG	1946905240
SNP_P4_105527_7155809	NC_021167.1	Ca_kabuli_chr08	7155809	AA	GG	1946905242
SNP_P4_105528_7155831	NC_021167.1	Ca_kabuli_chr08	7155831	TT	CC	1946905244
SNP_P4_105529_7155994	NC_021167.1	Ca_kabuli_chr08	7155994	GG	AA	1946905246
SNP_P4_105530_7156048	NC_021167.1	Ca_kabuli_chr08	7156048	AA	GG	1946905248
SNP_P4_105533_7246737	NC_021167.1	Ca_kabuli_chr08	7246737	AA	GG	1946905250
SNP_P4_105534_7260371	NC_021167.1	Ca_kabuli_chr08	7260371	AA	TT	1946905252
SNP_P4_105535_7260372	NC_021167.1	Ca_kabuli_chr08	7260372	TT	GG	1946905254
SNP_P4_105537_7285367	NC_021167.1	Ca_kabuli_chr08	7285367	AA	GG	1946905256
SNP_P4_105539_7295072	NC_021167.1	Ca_kabuli_chr08	7295072	CC	TT	1946905258
SNP_P4_105540_7301345	NC_021167.1	Ca_kabuli_chr08	7301345	TT	CC	1946905260
SNP_P4_105541_7303680	NC_021167.1	Ca_kabuli_chr08	7303680	TT	AA	1946905262
SNP_P4_105542_7303681	NC_021167.1	Ca_kabuli_chr08	7303681	AA	TT	1946905264
SNP_P4_105543_7319029	NC_021167.1	Ca_kabuli_chr08	7319029	GG	AA	1946905266

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_105547_7368488	NC_021167.1	Ca_kabuli_chr08	7368488	GG	AA	1946905270
SNP_P4_105548_7368904	NC_021167.1	Ca_kabuli_chr08	7368904	TT	CC	1946905272
SNP_P4_105549_7368906	NC_021167.1	Ca_kabuli_chr08	7368906	TT	AA	1946905274
SNP_P4_105550_7368933	NC_021167.1	Ca_kabuli_chr08	7368933	AA	GG	1946905276
SNP_P4_105551_7368936	NC_021167.1	Ca_kabuli_chr08	7368936	CC	GG	1946905278
SNP_P4_105552_7401987	NC_021167.1	Ca_kabuli_chr08	7401987	CC	TT	1946905280
SNP_P4_105554_7471621	NC_021167.1	Ca_kabuli_chr08	7471621	AA	GG	1946905282
SNP_P4_105555_7471622	NC_021167.1	Ca_kabuli_chr08	7471622	AA	TT	1946905284
SNP_P4_105556_7508869	NC_021167.1	Ca_kabuli_chr08	7508869	CC	GG	1946905286
SNP_P4_105557_7560254	NC_021167.1	Ca_kabuli_chr08	7560254	AA	CC	1946905288
SNP_P4_105559_7563385	NC_021167.1	Ca_kabuli_chr08	7563385	GG	TT	1946905290
SNP_P4_105561_7563641	NC_021167.1	Ca_kabuli_chr08	7563641	CC	GG	1946905292
SNP_P4_105562_7563696	NC_021167.1	Ca_kabuli_chr08	7563696	AA	GG	1946905294
SNP_P4_105563_7563737	NC_021167.1	Ca_kabuli_chr08	7563737	AA	GG	1946905296
SNP_P4_105564_7597117	NC_021167.1	Ca_kabuli_chr08	7597117	GG	AA	1946905298
SNP_P4_105565_7612584	NC_021167.1	Ca_kabuli_chr08	7612584	TT	AA	1946905300
SNP_P4_105566_7612585	NC_021167.1	Ca_kabuli_chr08	7612585	CC	AA	1946905302
SNP_P4_105567_7631568	NC_021167.1	Ca_kabuli_chr08	7631568	GG	AA	1946905304
SNP_P4_105568_7635681	NC_021167.1	Ca_kabuli_chr08	7635681	GG	TT	1946905305
SNP_P4_105569_7641962	NC_021167.1	Ca_kabuli_chr08	7641962	TT	CC	1946905308
SNP_P4_105570_7650048	NC_021167.1	Ca_kabuli_chr08	7650048	AA	GG	1946905310
SNP_P4_105571_7651651	NC_021167.1	Ca_kabuli_chr08	7651651	AA	TT	1946905312
SNP_P4_105572_7653705	NC_021167.1	Ca_kabuli_chr08	7653705	AA	GG	1946905314
SNP_P4_105574_7680028	NC_021167.1	Ca_kabuli_chr08	7680028	AA	GG	1946905316
SNP_P4_105576_7691912	NC_021167.1	Ca_kabuli_chr08	7691912	TT	CC	1946905318
SNP_P4_105577_7698349	NC_021167.1	Ca_kabuli_chr08	7698349	TT	CC	1946905321
SNP_P4_105578_7723591	NC_021167.1	Ca_kabuli_chr08	7723591	CC	TT	1946905323
SNP_P4_105579_7733813	NC_021167.1	Ca_kabuli_chr08	7733813	CC	TT	1946905325
SNP_P4_105580_7741486	NC_021167.1	Ca_kabuli_chr08	7741486	GG	AA	1946905327
SNP_P4_105581_7745239	NC_021167.1	Ca_kabuli_chr08	7745239	AA	GG	1946905329
SNP_P4_105582_7775331	NC_021167.1	Ca_kabuli_chr08	7775331	AA	TT	1946905332
SNP_P4_105583_7775357	NC_021167.1	Ca_kabuli_chr08	7775357	GG	CC	1946905334
SNP_P4_105584_7775599	NC_021167.1	Ca_kabuli_chr08	7775599	TT	CC	1946905336
SNP_P4_105585_7775608	NC_021167.1	Ca_kabuli_chr08	7775608	TT	CC	1946905338
SNP_P4_105586_7775610	NC_021167.1	Ca_kabuli_chr08	7775610	TT	CC	1946905340
SNP_P4_105587_7775641	NC_021167.1	Ca_kabuli_chr08	7775641	TT	CC	1946905342
SNP_P4_105588_7775663	NC_021167.1	Ca_kabuli_chr08	7775663	GG	AA	1946905344
SNP_P4_105589_7775667	NC_021167.1	Ca_kabuli_chr08	7775667	CC	TT	1946905346
SNP_P4_105590_7775693	NC_021167.1	Ca_kabuli_chr08	7775693	CC	TT	1946905348
SNP_P4_105591_7775708	NC_021167.1	Ca_kabuli_chr08	7775708	CC	TT	1946905350
SNP_P4_105592_7775720	NC_021167.1	Ca_kabuli_chr08	7775720	GG	AA	1946905352

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_105594_7775860	NC_021167.1	Ca_kabuli_chr08	7775860	TT	AA	1946905357
SNP_P4_105595_7775861	NC_021167.1	Ca_kabuli_chr08	7775861	GG	CC	1946905359
SNP_P4_105596_7775908	NC_021167.1	Ca_kabuli_chr08	7775908	TT	GG	1946905361
SNP_P4_105597_7776014	NC_021167.1	Ca_kabuli_chr08	7776014	GG	TT	1946905363
SNP_P4_105598_7776018	NC_021167.1	Ca_kabuli_chr08	7776018	CC	TT	1946905365
SNP_P4_105599_7776041	NC_021167.1	Ca_kabuli_chr08	7776041	AA	CC	1946905367
SNP_P4_105600_7776042	NC_021167.1	Ca_kabuli_chr08	7776042	CC	TT	1946905369
SNP_P4_105601_7776071	NC_021167.1	Ca_kabuli_chr08	7776071	GG	TT	1946905371
SNP_P4_105602_7776130	NC_021167.1	Ca_kabuli_chr08	7776130	TT	AA	1946905373
SNP_P4_105603_7776186	NC_021167.1	Ca_kabuli_chr08	7776186	GG	AA	1946905375
SNP_P4_105604_7777195	NC_021167.1	Ca_kabuli_chr08	7777195	TT	CC	1946905377
SNP_P4_105605_7777312	NC_021167.1	Ca_kabuli_chr08	7777312	AA	CC	1946905379
SNP_P4_105606_7777396	NC_021167.1	Ca_kabuli_chr08	7777396	AA	GG	1946905381
SNP_P4_105607_7777420	NC_021167.1	Ca_kabuli_chr08	7777420	TT	CC	1946905383
SNP_P4_105608_7777469	NC_021167.1	Ca_kabuli_chr08	7777469	TT	GG	1946905385
SNP_P4_105610_7777497	NC_021167.1	Ca_kabuli_chr08	7777497	AA	TT	1946905387
SNP_P4_105611_7777547	NC_021167.1	Ca_kabuli_chr08	7777547	GG	TT	1946905389
SNP_P4_105612_7777575	NC_021167.1	Ca_kabuli_chr08	7777575	GG	AA	1946905391
SNP_P4_105614_7777741	NC_021167.1	Ca_kabuli_chr08	7777741	GG	CC	1946905393
SNP_P4_105615_7777749	NC_021167.1	Ca_kabuli_chr08	7777749	GG	CC	1946905395
SNP_P4_105616_7777971	NC_021167.1	Ca_kabuli_chr08	7777971	GG	CC	1946905397
SNP_P4_105617_7777973	NC_021167.1	Ca_kabuli_chr08	7777973	TT	CC	1946905399
SNP_P4_105618_7796612	NC_021167.1	Ca_kabuli_chr08	7796612	TT	AA	1946905401
SNP_P4_105619_7796614	NC_021167.1	Ca_kabuli_chr08	7796614	AA	TT	1946905403
SNP_P4_105620_7796615	NC_021167.1	Ca_kabuli_chr08	7796615	TT	AA	1946905405
SNP_P4_105622_7802422	NC_021167.1	Ca_kabuli_chr08	7802422	TT	CC	1946905407
SNP_P4_105623_7802467	NC_021167.1	Ca_kabuli_chr08	7802467	CC	TT	1946905409
SNP_P4_105624_7802500	NC_021167.1	Ca_kabuli_chr08	7802500	TT	CC	1946905411
SNP_P4_105625_7802649	NC_021167.1	Ca_kabuli_chr08	7802649	TT	GG	1946905413
SNP_P4_105626_7802681	NC_021167.1	Ca_kabuli_chr08	7802681	TT	CC	1946905415
SNP_P4_105627_7802844	NC_021167.1	Ca_kabuli_chr08	7802844	GG	TT	1946905417
SNP_P4_105628_7802902	NC_021167.1	Ca_kabuli_chr08	7802902	CC	TT	1946905420
SNP_P4_105629_7802913	NC_021167.1	Ca_kabuli_chr08	7802913	AA	CC	1946905422
SNP_P4_105630_7802951	NC_021167.1	Ca_kabuli_chr08	7802951	AA	GG	1946905424
SNP_P4_105631_7802999	NC_021167.1	Ca_kabuli_chr08	7802999	TT	CC	1946905426
SNP_P4_105632_7803047	NC_021167.1	Ca_kabuli_chr08	7803047	AA	TT	1946905428
SNP_P4_105633_7803823	NC_021167.1	Ca_kabuli_chr08	7803823	CC	AA	1946905430
SNP_P4_105634_7851778	NC_021167.1	Ca_kabuli_chr08	7851778	TT	CC	1946905432
SNP_P4_105635_7855639	NC_021167.1	Ca_kabuli_chr08	7855639	GG	AA	1946905433
SNP_P4_105636_7855872	NC_021167.1	Ca_kabuli_chr08	7855872	GG	AA	1946905435
SNP_P4_105637_7855880	NC_021167.1	Ca_kabuli_chr08	7855880	AA	CC	1946905437

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_105641_7881254	NC_021167.1	Ca_kabuli_chr08	7881254	TT	CC	1946905443
SNP_P4_105642_7881443	NC_021167.1	Ca_kabuli_chr08	7881443	AA	GG	1946905445
SNP_P4_105643_7883652	NC_021167.1	Ca_kabuli_chr08	7883652	AA	TT	1946905447
SNP_P4_105644_7883656	NC_021167.1	Ca_kabuli_chr08	7883656	AA	TT	1946905449
SNP_P4_105645_7883661	NC_021167.1	Ca_kabuli_chr08	7883661	GG	AA	1946905452
SNP_P4_105646_7883664	NC_021167.1	Ca_kabuli_chr08	7883664	TT	AA	1946905454
SNP_P4_105647_7883670	NC_021167.1	Ca_kabuli_chr08	7883670	CC	TT	1946905456
SNP_P4_105648_7884027	NC_021167.1	Ca_kabuli_chr08	7884027	GG	AA	1946905458
SNP_P4_105649_7889128	NC_021167.1	Ca_kabuli_chr08	7889128	TT	AA	1946905460
SNP_P4_105650_7889136	NC_021167.1	Ca_kabuli_chr08	7889136	GG	CC	1946905462
SNP_P4_105653_7895785	NC_021167.1	Ca_kabuli_chr08	7895785	AA	GG	1946905464
SNP_P4_105654_7895833	NC_021167.1	Ca_kabuli_chr08	7895833	TT	CC	1946905466
SNP_P4_105655_7895893	NC_021167.1	Ca_kabuli_chr08	7895893	GG	AA	1946905468
SNP_P4_105656_7895991	NC_021167.1	Ca_kabuli_chr08	7895991	GG	AA	1946905470
SNP_P4_105657_7895999	NC_021167.1	Ca_kabuli_chr08	7895999	AA	TT	1946905472
SNP_P4_105658_7896042	NC_021167.1	Ca_kabuli_chr08	7896042	GG	AA	1946905474
SNP_P4_105659_7896046	NC_021167.1	Ca_kabuli_chr08	7896046	GG	TT	1946905476
SNP_P4_105660_7896049	NC_021167.1	Ca_kabuli_chr08	7896049	AA	GG	1946905478
SNP_P4_105661_7896112	NC_021167.1	Ca_kabuli_chr08	7896112	TT	CC	1946905481
SNP_P4_105662_7896293	NC_021167.1	Ca_kabuli_chr08	7896293	CC	TT	1946905483
SNP_P4_105663_7896312	NC_021167.1	Ca_kabuli_chr08	7896312	TT	CC	1946905485
SNP_P4_105664_7896320	NC_021167.1	Ca_kabuli_chr08	7896320	AA	GG	1946905487
SNP_P4_105665_7896332	NC_021167.1	Ca_kabuli_chr08	7896332	GG	AA	1946905488
SNP_P4_105667_7896415	NC_021167.1	Ca_kabuli_chr08	7896415	TT	CC	1946905491
SNP_P4_105668_7896435	NC_021167.1	Ca_kabuli_chr08	7896435	GG	AA	1946905493
SNP_P4_105669_7896493	NC_021167.1	Ca_kabuli_chr08	7896493	CC	TT	1946905495
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SNP_P4_105671_7896510	NC_021167.1	Ca_kabuli_chr08	7896510	GG	CC	1946905499
SNP_P4_105672_7896514	NC_021167.1	Ca_kabuli_chr08	7896514	TT	CC	1946905501
SNP_P4_105673_7896534	NC_021167.1	Ca_kabuli_chr08	7896534	TT	GG	1946905503
SNP_P4_105674_7896561	NC_021167.1	Ca_kabuli_chr08	7896561	CC	AA	1946905505
SNP_P4_105675_7896598	NC_021167.1	Ca_kabuli_chr08	7896598	AA	CC	1946905507
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SNP_P4_105677_7896696	NC_021167.1	Ca_kabuli_chr08	7896696	AA	TT	1946905511
SNP_P4_105678_7896958	NC_021167.1	Ca_kabuli_chr08	7896958	GG	AA	1946905513
SNP_P4_105679_7900650	NC_021167.1	Ca_kabuli_chr08	7900650	GG	AA	1946905515
SNP_P4_105680_7901054	NC_021167.1	Ca_kabuli_chr08	7901054	GG	AA	1946905517
SNP_P4_105681_7901074	NC_021167.1	Ca_kabuli_chr08	7901074	CC	TT	1946905519
SNP_P4_105683_7912478	NC_021167.1	Ca_kabuli_chr08	7912478	TT	CC	1946905521
SNP_P4_105685_7913793	NC_021167.1	Ca_kabuli_chr08	7913793	GG	AA	1946905523

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_105687_7913997	NC_021167.1	Ca_kabuli_chr08	7913997	AA	TT	1946905527
SNP_P4_105688_7914062	NC_021167.1	Ca_kabuli_chr08	7914062	GG	CC	1946905529
SNP_P4_105689_7914083	NC_021167.1	Ca_kabuli_chr08	7914083	TT	CC	1946905531
SNP_P4_105690_7924610	NC_021167.1	Ca_kabuli_chr08	7924610	CC	GG	1946905533
SNP_P4_105692_7925053	NC_021167.1	Ca_kabuli_chr08	7925053	TT	AA	1946905535
SNP_P4_105693_7925141	NC_021167.1	Ca_kabuli_chr08	7925141	AA	TT	1946905537
SNP_P4_105694_7925248	NC_021167.1	Ca_kabuli_chr08	7925248	AA	GG	1946905539
SNP_P4_105695_7926135	NC_021167.1	Ca_kabuli_chr08	7926135	AA	GG	1946905541
SNP_P4_105696_7927213	NC_021167.1	Ca_kabuli_chr08	7927213	GG	AA	1946905543
SNP_P4_105698_7927527	NC_021167.1	Ca_kabuli_chr08	7927527	AA	GG	1946905545
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SNP_P4_105703_7937233	NC_021167.1	Ca_kabuli_chr08	7937233	CC	AA	1946905551
SNP_P4_105704_7937601	NC_021167.1	Ca_kabuli_chr08	7937601	GG	TT	1946905553
SNP_P4_105705_7937621	NC_021167.1	Ca_kabuli_chr08	7937621	AA	GG	1946905555
SNP_P4_105706_7937636	NC_021167.1	Ca_kabuli_chr08	7937636	AA	CC	1946905557
SNP_P4_105707_7937655	NC_021167.1	Ca_kabuli_chr08	7937655	TT	CC	1946905559
SNP_P4_105708_7937771	NC_021167.1	Ca_kabuli_chr08	7937771	TT	CC	1946905561
SNP_P4_105709_7937774	NC_021167.1	Ca_kabuli_chr08	7937774	AA	GG	1946905563
SNP_P4_105710_7937828	NC_021167.1	Ca_kabuli_chr08	7937828	GG	AA	1946905565
SNP_P4_105711_7937881	NC_021167.1	Ca_kabuli_chr08	7937881	GG	AA	1946905567
SNP_P4_105712_7937891	NC_021167.1	Ca_kabuli_chr08	7937891	AA	CC	1946905569
SNP_P4_105713_7937907	NC_021167.1	Ca_kabuli_chr08	7937907	GG	AA	1946905571
SNP_P4_105714_7937908	NC_021167.1	Ca_kabuli_chr08	7937908	TT	AA	1946905573
SNP_P4_105715_7937924	NC_021167.1	Ca_kabuli_chr08	7937924	GG	CC	1946905575
SNP_P4_105716_7937952	NC_021167.1	Ca_kabuli_chr08	7937952	AA	GG	1946905577
SNP_P4_105717_7938027	NC_021167.1	Ca_kabuli_chr08	7938027	AA	GG	1946905579
SNP_P4_105718_7938028	NC_021167.1	Ca_kabuli_chr08	7938028	AA	TT	1946905581
SNP_P4_105719_7938076	NC_021167.1	Ca_kabuli_chr08	7938076	CC	TT	1946905583
SNP_P4_105721_7938126	NC_021167.1	Ca_kabuli_chr08	7938126	AA	GG	1946905585
SNP_P4_105722_7938144	NC_021167.1	Ca_kabuli_chr08	7938144	AA	GG	1946905587
SNP_P4_105723_7938199	NC_021167.1	Ca_kabuli_chr08	7938199	AA	TT	1946905589
SNP_P4_105725_7943988	NC_021167.1	Ca_kabuli_chr08	7943988	CC	AA	1946905591
SNP_P4_105726_7944316	NC_021167.1	Ca_kabuli_chr08	7944316	CC	TT	1946905593
SNP_P4_105727_7946941	NC_021167.1	Ca_kabuli_chr08	7946941	TT	CC	1946905595
SNP_P4_105728_7946987	NC_021167.1	Ca_kabuli_chr08	7946987	AA	GG	1946905597
SNP_P4_105729_7947096	NC_021167.1	Ca_kabuli_chr08	7947096	GG	AA	1946905599
SNP_P4_105730_7947099	NC_021167.1	Ca_kabuli_chr08	7947099	GG	AA	1946905601
SNP_P4_105731_7947141	NC_021167.1	Ca_kabuli_chr08	7947141	TT	AA	1946905603
SNP_P4_105732_7948133	NC_021167.1	Ca_kabuli_chr08	7948133	AA	GG	1946905605
SNP_P4_105734_7948257	NC_021167.1	Ca_kabuli_chr08	7948257	GG	TT	1946905607

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_105736_7950205	NC_021167.1	Ca_kabuli_chr08	7950205	GG	TT	1946905611
SNP_P4_105737_7950275	NC_021167.1	Ca_kabuli_chr08	7950275	TT	GG	1946905613
SNP_P4_105738_7950287	NC_021167.1	Ca_kabuli_chr08	7950287	TT	CC	1946905615
SNP_P4_105739_7950313	NC_021167.1	Ca_kabuli_chr08	7950313	AA	CC	1946905617
SNP_P4_105740_7950332	NC_021167.1	Ca_kabuli_chr08	7950332	AA	GG	1946905619
SNP_P4_105741_7950502	NC_021167.1	Ca_kabuli_chr08	7950502	CC	GG	1946905621
SNP_P4_105743_7950594	NC_021167.1	Ca_kabuli_chr08	7950594	CC	TT	1946905623
SNP_P4_105744_7950821	NC_021167.1	Ca_kabuli_chr08	7950821	CC	TT	1946905625
SNP_P4_105746_7950866	NC_021167.1	Ca_kabuli_chr08	7950866	TT	CC	1946905627
SNP_P4_105747_7951002	NC_021167.1	Ca_kabuli_chr08	7951002	TT	CC	1946905629
SNP_P4_105748_7951035	NC_021167.1	Ca_kabuli_chr08	7951035	TT	CC	1946905631
SNP_P4_105749_7951061	NC_021167.1	Ca_kabuli_chr08	7951061	CC	AA	1946905633
SNP_P4_105750_7951166	NC_021167.1	Ca_kabuli_chr08	7951166	TT	CC	1946905635
SNP_P4_105751_7951190	NC_021167.1	Ca_kabuli_chr08	7951190	AA	GG	1946905638
SNP_P4_105752_7951234	NC_021167.1	Ca_kabuli_chr08	7951234	TT	AA	1946905640
SNP_P4_105753_7951399	NC_021167.1	Ca_kabuli_chr08	7951399	CC	TT	1946905642
SNP_P4_105754_7951454	NC_021167.1	Ca_kabuli_chr08	7951454	CC	TT	1946905644
SNP_P4_105755_7951514	NC_021167.1	Ca_kabuli_chr08	7951514	CC	GG	1946905646
SNP_P4_105756_7951523	NC_021167.1	Ca_kabuli_chr08	7951523	CC	TT	1946905648
SNP_P4_105757_7951591	NC_021167.1	Ca_kabuli_chr08	7951591	TT	GG	1946905650
SNP_P4_105758_7951658	NC_021167.1	Ca_kabuli_chr08	7951658	TT	CC	1946905652
SNP_P4_105759_7951735	NC_021167.1	Ca_kabuli_chr08	7951735	TT	CC	1946905654
SNP_P4_105760_7951815	NC_021167.1	Ca_kabuli_chr08	7951815	TT	CC	1946905656
SNP_P4_105761_7952016	NC_021167.1	Ca_kabuli_chr08	7952016	CC	TT	1946905658
SNP_P4_105762_7952042	NC_021167.1	Ca_kabuli_chr08	7952042	AA	GG	1946905660
SNP_P4_105763_7952123	NC_021167.1	Ca_kabuli_chr08	7952123	TT	CC	1946905662
SNP_P4_105764_7952131	NC_021167.1	Ca_kabuli_chr08	7952131	GG	AA	1946905664
SNP_P4_105765_7952340	NC_021167.1	Ca_kabuli_chr08	7952340	TT	GG	1946905666
SNP_P4_105766_7952434	NC_021167.1	Ca_kabuli_chr08	7952434	AA	CC	1946905668
SNP_P4_105767_7952546	NC_021167.1	Ca_kabuli_chr08	7952546	GG	CC	1946905670
SNP_P4_105769_7952633	NC_021167.1	Ca_kabuli_chr08	7952633	TT	CC	1946905672
SNP_P4_105770_7952636	NC_021167.1	Ca_kabuli_chr08	7952636	AA	GG	1946905674
SNP_P4_105771_7952665	NC_021167.1	Ca_kabuli_chr08	7952665	GG	CC	1946905676
SNP_P4_105772_7952737	NC_021167.1	Ca_kabuli_chr08	7952737	CC	AA	1946905678
SNP_P4_105773_7952773	NC_021167.1	Ca_kabuli_chr08	7952773	GG	CC	1946905680
SNP_P4_105774_7952810	NC_021167.1	Ca_kabuli_chr08	7952810	AA	TT	1946905682
SNP_P4_105775_7952822	NC_021167.1	Ca_kabuli_chr08	7952822	AA	GG	1946905684
SNP_P4_105776_7952831	NC_021167.1	Ca_kabuli_chr08	7952831	AA	TT	1946905686
SNP_P4_105777_7952837	NC_021167.1	Ca_kabuli_chr08	7952837	GG	CC	1946905688
SNP_P4_105778_7952840	NC_021167.1	Ca_kabuli_chr08	7952840	CC	AA	1946905690
SNP_P4_105779_7952860	NC_021167.1	Ca_kabuli_chr08	7952860	AA	TT	1946905692

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_105781_7953020	NC_021167.1	Ca_kabuli_chr08	7953020	TT	CC	1946905697
SNP_P4_105782_7953024	NC_021167.1	Ca_kabuli_chr08	7953024	AA	GG	1946905699
SNP_P4_105783_7953046	NC_021167.1	Ca_kabuli_chr08	7953046	GG	AA	1946905701
SNP_P4_105785_7953116	NC_021167.1	Ca_kabuli_chr08	7953116	CC	TT	1946905703
SNP_P4_105786_7953157	NC_021167.1	Ca_kabuli_chr08	7953157	GG	AA	1946905705
SNP_P4_105787_7953268	NC_021167.1	Ca_kabuli_chr08	7953268	CC	TT	1946905707
SNP_P4_105788_7953276	NC_021167.1	Ca_kabuli_chr08	7953276	CC	TT	1946905709
SNP_P4_105789_7953297	NC_021167.1	Ca_kabuli_chr08	7953297	AA	GG	1946905711
SNP_P4_105790_7953338	NC_021167.1	Ca_kabuli_chr08	7953338	GG	AA	1946905713
SNP_P4_105791_7953416	NC_021167.1	Ca_kabuli_chr08	7953416	AA	GG	1946905715
SNP_P4_105792_7953455	NC_021167.1	Ca_kabuli_chr08	7953455	CC	TT	1946905717
SNP_P4_105793_7953508	NC_021167.1	Ca_kabuli_chr08	7953508	CC	TT	1946905718
SNP_P4_105794_7953581	NC_021167.1	Ca_kabuli_chr08	7953581	AA	GG	1946905720
SNP_P4_105795_7953649	NC_021167.1	Ca_kabuli_chr08	7953649	GG	CC	1946905722
SNP_P4_105796_7953677	NC_021167.1	Ca_kabuli_chr08	7953677	AA	GG	1946905724
SNP_P4_105797_7953711	NC_021167.1	Ca_kabuli_chr08	7953711	GG	AA	1946905726
SNP_P4_105798_7953724	NC_021167.1	Ca_kabuli_chr08	7953724	GG	TT	1946905728
SNP_P4_105799_7953778	NC_021167.1	Ca_kabuli_chr08	7953778	CC	TT	1946905730
SNP_P4_105801_7953856	NC_021167.1	Ca_kabuli_chr08	7953856	CC	AA	1946905732
SNP_P4_105802_7953902	NC_021167.1	Ca_kabuli_chr08	7953902	GG	AA	1946905734
SNP_P4_105803_7953932	NC_021167.1	Ca_kabuli_chr08	7953932	TT	CC	1946905736
SNP_P4_105804_7953989	NC_021167.1	Ca_kabuli_chr08	7953989	TT	CC	1946905738
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SNP_P4_105806_7954075	NC_021167.1	Ca_kabuli_chr08	7954075	GG	TT	1946905742
SNP_P4_105807_7954166	NC_021167.1	Ca_kabuli_chr08	7954166	CC	TT	1946905744
SNP_P4_105808_7954194	NC_021167.1	Ca_kabuli_chr08	7954194	AA	CC	1946905746
SNP_P4_105809_7954303	NC_021167.1	Ca_kabuli_chr08	7954303	TT	AA	1946905748
SNP_P4_105810_7954379	NC_021167.1	Ca_kabuli_chr08	7954379	AA	GG	1946905750
SNP_P4_105812_7954405	NC_021167.1	Ca_kabuli_chr08	7954405	AA	GG	1946905752
SNP_P4_105813_7954416	NC_021167.1	Ca_kabuli_chr08	7954416	GG	AA	1946905754
SNP_P4_105815_7954476	NC_021167.1	Ca_kabuli_chr08	7954476	AA	TT	1946905756
SNP_P4_105816_7954490	NC_021167.1	Ca_kabuli_chr08	7954490	CC	TT	1946905758
SNP_P4_105818_7954529	NC_021167.1	Ca_kabuli_chr08	7954529	TT	CC	1946905760
SNP_P4_105819_7954533	NC_021167.1	Ca_kabuli_chr08	7954533	TT	CC	1946905762
SNP_P4_105820_7954572	NC_021167.1	Ca_kabuli_chr08	7954572	AA	CC	1946905764
SNP_P4_105821_7954617	NC_021167.1	Ca_kabuli_chr08	7954617	AA	CC	1946905766
SNP_P4_105822_7954648	NC_021167.1	Ca_kabuli_chr08	7954648	AA	GG	1946905768
SNP_P4_105823_7954689	NC_021167.1	Ca_kabuli_chr08	7954689	AA	TT	1946905770
SNP_P4_105824_7954706	NC_021167.1	Ca_kabuli_chr08	7954706	GG	TT	1946905772
SNP_P4_105825_7954718	NC_021167.1	Ca_kabuli_chr08	7954718	TT	AA	1946905774
SNP_P4_105826_7954745	NC_021167.1	Ca_kabuli_chr08	7954745	GG	CC	1946905776

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_105828_7954805	NC_021167.1	Ca_kabuli_chr08	7954805	AA	TT	1946905780
SNP_P4_105829_7954824	NC_021167.1	Ca_kabuli_chr08	7954824	AA	GG	1946905782
SNP_P4_105830_7954855	NC_021167.1	Ca_kabuli_chr08	7954855	TT	CC	1946905784
SNP_P4_105831_7954873	NC_021167.1	Ca_kabuli_chr08	7954873	CC	GG	1946905786
SNP_P4_105832_7954880	NC_021167.1	Ca_kabuli_chr08	7954880	CC	TT	1946905787
SNP_P4_105833_7954928	NC_021167.1	Ca_kabuli_chr08	7954928	AA	TT	1946905789
SNP_P4_105834_7954938	NC_021167.1	Ca_kabuli_chr08	7954938	CC	AA	1946905791
SNP_P4_105835_7954998	NC_021167.1	Ca_kabuli_chr08	7954998	TT	CC	1946905793
SNP_P4_105836_7955037	NC_021167.1	Ca_kabuli_chr08	7955037	GG	AA	1946905796
SNP_P4_105837_7955041	NC_021167.1	Ca_kabuli_chr08	7955041	GG	TT	1946905798
SNP_P4_105838_7955075	NC_021167.1	Ca_kabuli_chr08	7955075	AA	GG	1946905800
SNP_P4_105839_7955370	NC_021167.1	Ca_kabuli_chr08	7955370	CC	AA	1946905802
SNP_P4_105840_7955457	NC_021167.1	Ca_kabuli_chr08	7955457	TT	AA	1946905804
SNP_P4_105841_7955493	NC_021167.1	Ca_kabuli_chr08	7955493	GG	AA	1946905806
SNP_P4_105843_7955550	NC_021167.1	Ca_kabuli_chr08	7955550	AA	CC	1946905808
SNP_P4_105844_7955556	NC_021167.1	Ca_kabuli_chr08	7955556	TT	CC	1946905810
SNP_P4_105845_7955596	NC_021167.1	Ca_kabuli_chr08	7955596	AA	GG	1946905812
SNP_P4_105846_7955732	NC_021167.1	Ca_kabuli_chr08	7955732	CC	TT	1946905814
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SNP_P4_105848_7955759	NC_021167.1	Ca_kabuli_chr08	7955759	CC	TT	1946905818
SNP_P4_105849_7955882	NC_021167.1	Ca_kabuli_chr08	7955882	AA	GG	1946905820
SNP_P4_105850_7956011	NC_021167.1	Ca_kabuli_chr08	7956011	AA	GG	1946905822
SNP_P4_105852_7956217	NC_021167.1	Ca_kabuli_chr08	7956217	TT	CC	1946905824
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SNP_P4_105858_7969190	NC_021167.1	Ca_kabuli_chr08	7969190	AA	CC	1946905834
SNP_P4_105859_7969856	NC_021167.1	Ca_kabuli_chr08	7969856	AA	GG	1946905836
SNP_P4_105860_7969901	NC_021167.1	Ca_kabuli_chr08	7969901	TT	AA	1946905838
SNP_P4_105863_8024227	NC_021167.1	Ca_kabuli_chr08	8024227	GG	AA	1946905840
SNP_P4_105864_8042131	NC_021167.1	Ca_kabuli_chr08	8042131	AA	GG	1946905842
SNP_P4_105865_8042137	NC_021167.1	Ca_kabuli_chr08	8042137	TT	GG	1946905844
SNP_P4_105866_8044956	NC_021167.1	Ca_kabuli_chr08	8044956	TT	CC	1946905846
SNP_P4_105867_8054258	NC_021167.1	Ca_kabuli_chr08	8054258	TT	GG	1946905848
SNP_P4_105868_8054266	NC_021167.1	Ca_kabuli_chr08	8054266	GG	AA	1946905850
SNP_P4_105869_8055201	NC_021167.1	Ca_kabuli_chr08	8055201	GG	AA	1946905852
SNP_P4_105871_8062762	NC_021167.1	Ca_kabuli_chr08	8062762	CC	TT	1946905855
SNP_P4_105872_8064169	NC_021167.1	Ca_kabuli_chr08	8064169	CC	AA	1946905857
SNP_P4_105873_8074300	NC_021167.1	Ca_kabuli_chr08	8074300	AA	GG	1946905859
SNP_P4_105874_8074306	NC_021167.1	Ca_kabuli_chr08	8074306	GG	CC	1946905860

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_105876_8074570	NC_021167.1	Ca_kabuli_chr08	8074570	CC	TT	1946905864
SNP_P4_105877_8074695	NC_021167.1	Ca_kabuli_chr08	8074695	GG	TT	1946905866
SNP_P4_105878_8074702	NC_021167.1	Ca_kabuli_chr08	8074702	AA	TT	1946905869
SNP_P4_105879_8074704	NC_021167.1	Ca_kabuli_chr08	8074704	CC	AA	1946905871
SNP_P4_105880_8074711	NC_021167.1	Ca_kabuli_chr08	8074711	TT	CC	1946905873
SNP_P4_105881_8074717	NC_021167.1	Ca_kabuli_chr08	8074717	GG	TT	1946905875
SNP_P4_105882_8074724	NC_021167.1	Ca_kabuli_chr08	8074724	TT	CC	1946905877
SNP_P4_105883_8074731	NC_021167.1	Ca_kabuli_chr08	8074731	AA	GG	1946905879
SNP_P4_105884_8074745	NC_021167.1	Ca_kabuli_chr08	8074745	GG	AA	1946905881
SNP_P4_105885_8074783	NC_021167.1	Ca_kabuli_chr08	8074783	GG	AA	1946905883
SNP_P4_105886_8074788	NC_021167.1	Ca_kabuli_chr08	8074788	AA	GG	1946905885
SNP_P4_105887_8074791	NC_021167.1	Ca_kabuli_chr08	8074791	CC	TT	1946905887
SNP_P4_105888_8074836	NC_021167.1	Ca_kabuli_chr08	8074836	CC	AA	1946905889
SNP_P4_105889_8074866	NC_021167.1	Ca_kabuli_chr08	8074866	TT	AA	1946905891
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SNP_P4_105891_8074894	NC_021167.1	Ca_kabuli_chr08	8074894	TT	AA	1946905896
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SNP_P4_105893_8075176	NC_021167.1	Ca_kabuli_chr08	8075176	CC	TT	1946905900
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SNP_P4_105895_8075590	NC_021167.1	Ca_kabuli_chr08	8075590	GG	TT	1946905904
SNP_P4_105896_8075593	NC_021167.1	Ca_kabuli_chr08	8075593	CC	AA	1946905906
SNP_P4_105897_8075975	NC_021167.1	Ca_kabuli_chr08	8075975	GG	AA	1946905908
SNP_P4_105899_8076089	NC_021167.1	Ca_kabuli_chr08	8076089	TT	CC	1946905910
SNP_P4_105900_8076291	NC_021167.1	Ca_kabuli_chr08	8076291	CC	TT	1946905912
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SNP_P4_105906_8084747	NC_021167.1	Ca_kabuli_chr08	8084747	AA	GG	1946905923
SNP_P4_105907_8084755	NC_021167.1	Ca_kabuli_chr08	8084755	GG	TT	1946905924
SNP_P4_105908_8084758	NC_021167.1	Ca_kabuli_chr08	8084758	CC	AA	1946905925
SNP_P4_105909_8084802	NC_021167.1	Ca_kabuli_chr08	8084802	AA	TT	1946905926
SNP_P4_105910_8089902	NC_021167.1	Ca_kabuli_chr08	8089902	AA	TT	1946905927
SNP_P4_105911_8110969	NC_021167.1	Ca_kabuli_chr08	8110969	CC	TT	1946905928
SNP_P4_105912_8132902	NC_021167.1	Ca_kabuli_chr08	8132902	TT	CC	1946905930
SNP_P4_105913_8136485	NC_021167.1	Ca_kabuli_chr08	8136485	AA	TT	1946905932
SNP_P4_105914_8155153	NC_021167.1	Ca_kabuli_chr08	8155153	CC	GG	1946905934
SNP_P4_105915_8162354	NC_021167.1	Ca_kabuli_chr08	8162354	TT	CC	1946905936
SNP_P4_105916_8162415	NC_021167.1	Ca_kabuli_chr08	8162415	AA	CC	1946905938
SNP_P4_105917_8162418	NC_021167.1	Ca_kabuli_chr08	8162418	TT	GG	1946905940
SNP_P4_105920_8240103	NC_021167.1	Ca_kabuli_chr08	8240103	TT	CC	1946905942

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_105923_8254542	NC_021167.1	Ca_kabuli_chr08	8254542	CC	TT	1946905946
SNP_P4_105924_8254575	NC_021167.1	Ca_kabuli_chr08	8254575	AA	GG	1946905948
SNP_P4_105925_8254596	NC_021167.1	Ca_kabuli_chr08	8254596	AA	GG	1946905950
SNP_P4_105926_8254601	NC_021167.1	Ca_kabuli_chr08	8254601	GG	AA	1946905952
SNP_P4_105927_8254706	NC_021167.1	Ca_kabuli_chr08	8254706	AA	GG	1946905954
SNP_P4_105928_8254712	NC_021167.1	Ca_kabuli_chr08	8254712	AA	GG	1946905956
SNP_P4_105929_8254751	NC_021167.1	Ca_kabuli_chr08	8254751	TT	GG	1946905958
SNP_P4_105930_8254891	NC_021167.1	Ca_kabuli_chr08	8254891	AA	GG	1946905960
SNP_P4_105931_8254908	NC_021167.1	Ca_kabuli_chr08	8254908	AA	CC	1946905962
SNP_P4_105932_8254954	NC_021167.1	Ca_kabuli_chr08	8254954	CC	GG	1946905964
SNP_P4_105933_8260688	NC_021167.1	Ca_kabuli_chr08	8260688	AA	GG	1946905966
SNP_P4_105934_8269061	NC_021167.1	Ca_kabuli_chr08	8269061	AA	GG	1946905968
SNP_P4_105935_8271046	NC_021167.1	Ca_kabuli_chr08	8271046	AA	CC	1946905970
SNP_P4_105936_8272709	NC_021167.1	Ca_kabuli_chr08	8272709	GG	CC	1946905972
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SNP_P4_105942_8273022	NC_021167.1	Ca_kabuli_chr08	8273022	CC	AA	1946905983
SNP_P4_105943_8273075	NC_021167.1	Ca_kabuli_chr08	8273075	TT	CC	1946905985
SNP_P4_105944_8273168	NC_021167.1	Ca_kabuli_chr08	8273168	CC	TT	1946905987
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SNP_P4_105946_8273194	NC_021167.1	Ca_kabuli_chr08	8273194	AA	GG	1946905991
SNP_P4_105947_8273247	NC_021167.1	Ca_kabuli_chr08	8273247	CC	AA	1946905993
SNP_P4_105948_8276303	NC_021167.1	Ca_kabuli_chr08	8276303	CC	TT	1946905995
SNP_P4_105949_8277240	NC_021167.1	Ca_kabuli_chr08	8277240	GG	AA	1946905997
SNP_P4_105950_8277386	NC_021167.1	Ca_kabuli_chr08	8277386	TT	CC	1946905999
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SNP_P4_105952_8277721	NC_021167.1	Ca_kabuli_chr08	8277721	GG	TT	1946906003
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SNP_P4_105956_8289174	NC_021167.1	Ca_kabuli_chr08	8289174	GG	CC	1946906009
SNP_P4_105957_8290038	NC_021167.1	Ca_kabuli_chr08	8290038	AA	GG	1946906011
SNP_P4_105958_8290039	NC_021167.1	Ca_kabuli_chr08	8290039	AA	CC	1946906013
SNP_P4_105963_8315027	NC_021167.1	Ca_kabuli_chr08	8315027	GG	AA	1946906015
SNP_P4_105964_8337766	NC_021167.1	Ca_kabuli_chr08	8337766	CC	TT	1946906017
SNP_P4_105965_8337771	NC_021167.1	Ca_kabuli_chr08	8337771	AA	GG	1946906019
SNP_P4_105966_8337777	NC_021167.1	Ca_kabuli_chr08	8337777	CC	TT	1946906021
SNP_P4_105967_8357522	NC_021167.1	Ca_kabuli_chr08	8357522	AA	TT	1946906023
SNP_P4_105969_8370678	NC_021167.1	Ca_kabuli_chr08	8370678	AA	GG	1946906025
SNP_P4_105970_8382652	NC_021167.1	Ca_kabuli_chr08	8382652	CC	TT	1946906027

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_105973_8395604	NC_021167.1	Ca_kabuli_chr08	8395604	TT	CC	1946906031
SNP_P4_105974_8395657	NC_021167.1	Ca_kabuli_chr08	8395657	TT	GG	1946906033
SNP_P4_105975_8395668	NC_021167.1	Ca_kabuli_chr08	8395668	AA	CC	1946906035
SNP_P4_105976_8395669	NC_021167.1	Ca_kabuli_chr08	8395669	TT	CC	1946906037
SNP_P4_105977_8395682	NC_021167.1	Ca_kabuli_chr08	8395682	GG	AA	1946906039
SNP_P4_105978_8396006	NC_021167.1	Ca_kabuli_chr08	8396006	CC	GG	1946906042
SNP_P4_105979_8400964	NC_021167.1	Ca_kabuli_chr08	8400964	TT	CC	1946906044
SNP_P4_105980_8401021	NC_021167.1	Ca_kabuli_chr08	8401021	GG	TT	1946906046
SNP_P4_105981_8401306	NC_021167.1	Ca_kabuli_chr08	8401306	TT	AA	1946906048
SNP_P4_105982_8401394	NC_021167.1	Ca_kabuli_chr08	8401394	CC	TT	1946906050
SNP_P4_105983_8401431	NC_021167.1	Ca_kabuli_chr08	8401431	GG	AA	1946906052
SNP_P4_105984_8410340	NC_021167.1	Ca_kabuli_chr08	8410340	AA	TT	1946906054
SNP_P4_105985_8413884	NC_021167.1	Ca_kabuli_chr08	8413884	AA	GG	1946906056
SNP_P4_105986_8413891	NC_021167.1	Ca_kabuli_chr08	8413891	TT	CC	1946906058
SNP_P4_105987_8413929	NC_021167.1	Ca_kabuli_chr08	8413929	AA	CC	1946906060
SNP_P4_105988_8419683	NC_021167.1	Ca_kabuli_chr08	8419683	GG	CC	1946906062
SNP_P4_105989_8420570	NC_021167.1	Ca_kabuli_chr08	8420570	TT	CC	1946906064
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SNP_P4_105994_8450124	NC_021167.1	Ca_kabuli_chr08	8450124	CC	TT	1946906072
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SNP_P4_106002_8500044	NC_021167.1	Ca_kabuli_chr08	8500044	CC	TT	1946906088
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SNP_P4_106004_8506137	NC_021167.1	Ca_kabuli_chr08	8506137	CC	AA	1946906092
SNP_P4_106005_8524570	NC_021167.1	Ca_kabuli_chr08	8524570	TT	GG	1946906094
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SNP_P4_106007_8546443	NC_021167.1	Ca_kabuli_chr08	8546443	GG	AA	1946906098
SNP_P4_106008_8569589	NC_021167.1	Ca_kabuli_chr08	8569589	AA	GG	1946906100
SNP_P4_106009_8569595	NC_021167.1	Ca_kabuli_chr08	8569595	TT	GG	1946906102
SNP_P4_106010_8569612	NC_021167.1	Ca_kabuli_chr08	8569612	TT	GG	1946906104
SNP_P4_106011_8574306	NC_021167.1	Ca_kabuli_chr08	8574306	AA	TT	1946906106
SNP_P4_106012_8577701	NC_021167.1	Ca_kabuli_chr08	8577701	CC	AA	1946906108
SNP_P4_106013_8577705	NC_021167.1	Ca_kabuli_chr08	8577705	GG	AA	1946906110
SNP_P4_106014_8582268	NC_021167.1	Ca_kabuli_chr08	8582268	AA	TT	1946906112

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_106016_8599419	NC_021167.1	Ca_kabuli_chr08	8599419	TT	CC	1946906116
SNP_P4_106017_8599523	NC_021167.1	Ca_kabuli_chr08	8599523	TT	AA	1946906118
SNP_P4_106018_8601984	NC_021167.1	Ca_kabuli_chr08	8601984	CC	TT	1946906120
SNP_P4_106019_8602885	NC_021167.1	Ca_kabuli_chr08	8602885	AA	CC	1946906122
SNP_P4_106020_8604841	NC_021167.1	Ca_kabuli_chr08	8604841	AA	GG	1946906124
SNP_P4_106021_8616448	NC_021167.1	Ca_kabuli_chr08	8616448	GG	AA	1946906126
SNP_P4_106022_8616608	NC_021167.1	Ca_kabuli_chr08	8616608	AA	GG	1946906128
SNP_P4_106023_8616617	NC_021167.1	Ca_kabuli_chr08	8616617	TT	CC	1946906130
SNP_P4_106024_8616632	NC_021167.1	Ca_kabuli_chr08	8616632	TT	GG	1946906132
SNP_P4_106025_8616634	NC_021167.1	Ca_kabuli_chr08	8616634	TT	CC	1946906134
SNP_P4_106026_8616650	NC_021167.1	Ca_kabuli_chr08	8616650	CC	GG	1946906136
SNP_P4_106027_8616784	NC_021167.1	Ca_kabuli_chr08	8616784	TT	CC	1946906139
SNP_P4_106028_8623160	NC_021167.1	Ca_kabuli_chr08	8623160	TT	CC	1946906141
SNP_P4_106029_8623181	NC_021167.1	Ca_kabuli_chr08	8623181	CC	AA	1946906143
SNP_P4_106034_8624641	NC_021167.1	Ca_kabuli_chr08	8624641	AA	GG	1946906145
SNP_P4_106035_8624646	NC_021167.1	Ca_kabuli_chr08	8624646	TT	AA	1946906147
SNP_P4_106036_8624779	NC_021167.1	Ca_kabuli_chr08	8624779	GG	TT	1946906149
SNP_P4_106038_8644847	NC_021167.1	Ca_kabuli_chr08	8644847	CC	TT	1946906151
SNP_P4_106040_8667341	NC_021167.1	Ca_kabuli_chr08	8667341	CC	TT	1946906153
SNP_P4_106041_8689935	NC_021167.1	Ca_kabuli_chr08	8689935	GG	AA	1946906155
SNP_P4_106043_8695055	NC_021167.1	Ca_kabuli_chr08	8695055	TT	AA	1946906157
SNP_P4_106045_8707383	NC_021167.1	Ca_kabuli_chr08	8707383	GG	AA	1946906159
SNP_P4_106046_8720464	NC_021167.1	Ca_kabuli_chr08	8720464	AA	CC	1946906161
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SNP_P4_106048_8724274	NC_021167.1	Ca_kabuli_chr08	8724274	GG	AA	1946906165
SNP_P4_106049_8728507	NC_021167.1	Ca_kabuli_chr08	8728507	TT	CC	1946906167
SNP_P4_106050_8744180	NC_021167.1	Ca_kabuli_chr08	8744180	AA	CC	1946906169
SNP_P4_106051_8744480	NC_021167.1	Ca_kabuli_chr08	8744480	TT	CC	1946906171
SNP_P4_106052_8744745	NC_021167.1	Ca_kabuli_chr08	8744745	GG	AA	1946906173
SNP_P4_106053_8745123	NC_021167.1	Ca_kabuli_chr08	8745123	GG	TT	1946906175
SNP_P4_106054_8745536	NC_021167.1	Ca_kabuli_chr08	8745536	AA	GG	1946906177
SNP_P4_106055_8746324	NC_021167.1	Ca_kabuli_chr08	8746324	CC	TT	1946906179
SNP_P4_106056_8753782	NC_021167.1	Ca_kabuli_chr08	8753782	CC	TT	1946906182
SNP_P4_106057_8753801	NC_021167.1	Ca_kabuli_chr08	8753801	CC	TT	1946906184
SNP_P4_106058_8753812	NC_021167.1	Ca_kabuli_chr08	8753812	TT	CC	1946906186
SNP_P4_106059_8773979	NC_021167.1	Ca_kabuli_chr08	8773979	GG	TT	1946906188
SNP_P4_106060_8773994	NC_021167.1	Ca_kabuli_chr08	8773994	AA	GG	1946906190
SNP_P4_106061_8774033	NC_021167.1	Ca_kabuli_chr08	8774033	AA	TT	1946906192
SNP_P4_106063_8774227	NC_021167.1	Ca_kabuli_chr08	8774227	TT	AA	1946906194
SNP_P4_106064_8774313	NC_021167.1	Ca_kabuli_chr08	8774313	CC	TT	1946906196
SNP_P4_106066_8787756	NC_021167.1	Ca_kabuli_chr08	8787756	GG	AA	1946906198

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_106068_8792739	NC_021167.1	Ca_kabuli_chr08	8792739	CC	GG	1946906202
SNP_P4_106069_8794769	NC_021167.1	Ca_kabuli_chr08	8794769	CC	TT	1946906204
SNP_P4_106070_8799539	NC_021167.1	Ca_kabuli_chr08	8799539	AA	GG	1946906206
SNP_P4_106072_8809392	NC_021167.1	Ca_kabuli_chr08	8809392	TT	GG	1946906208
SNP_P4_106073_8809396	NC_021167.1	Ca_kabuli_chr08	8809396	TT	CC	1946906210
SNP_P4_106074_8809407	NC_021167.1	Ca_kabuli_chr08	8809407	AA	CC	1946906212
SNP_P4_106075_8824127	NC_021167.1	Ca_kabuli_chr08	8824127	AA	GG	1946906214
SNP_P4_106076_8824620	NC_021167.1	Ca_kabuli_chr08	8824620	AA	TT	1946906216
SNP_P4_106077_8828359	NC_021167.1	Ca_kabuli_chr08	8828359	AA	TT	1946906218
SNP_P4_106078_8832553	NC_021167.1	Ca_kabuli_chr08	8832553	GG	AA	1946906220
SNP_P4_106079_8833494	NC_021167.1	Ca_kabuli_chr08	8833494	CC	TT	1946906222
SNP_P4_106080_8835822	NC_021167.1	Ca_kabuli_chr08	8835822	TT	CC	1946906224
SNP_P4_106082_8838259	NC_021167.1	Ca_kabuli_chr08	8838259	AA	CC	1946906226
SNP_P4_106083_8839008	NC_021167.1	Ca_kabuli_chr08	8839008	GG	AA	1946906228
SNP_P4_106084_8840782	NC_021167.1	Ca_kabuli_chr08	8840782	CC	GG	1946906230
SNP_P4_106085_8844093	NC_021167.1	Ca_kabuli_chr08	8844093	GG	AA	1946906232
SNP_P4_106086_8844254	NC_021167.1	Ca_kabuli_chr08	8844254	GG	AA	1946906234
SNP_P4_106087_8844788	NC_021167.1	Ca_kabuli_chr08	8844788	TT	CC	1946906236
SNP_P4_106088_8845215	NC_021167.1	Ca_kabuli_chr08	8845215	AA	GG	1946906238
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SNP_P4_106090_8847417	NC_021167.1	Ca_kabuli_chr08	8847417	TT	AA	1946906242
SNP_P4_106091_8849932	NC_021167.1	Ca_kabuli_chr08	8849932	TT	CC	1946906244
SNP_P4_106092_8849968	NC_021167.1	Ca_kabuli_chr08	8849968	AA	GG	1946906246
SNP_P4_106093_8851357	NC_021167.1	Ca_kabuli_chr08	8851357	CC	TT	1946906248
SNP_P4_106094_8852015	NC_021167.1	Ca_kabuli_chr08	8852015	AA	TT	1946906250
SNP_P4_106095_8852080	NC_021167.1	Ca_kabuli_chr08	8852080	GG	AA	1946906252
SNP_P4_106096_8852098	NC_021167.1	Ca_kabuli_chr08	8852098	TT	GG	1946906254
SNP_P4_106097_8852267	NC_021167.1	Ca_kabuli_chr08	8852267	CC	GG	1946906256
SNP_P4_106098_8852319	NC_021167.1	Ca_kabuli_chr08	8852319	GG	AA	1946906258
SNP_P4_106101_8853201	NC_021167.1	Ca_kabuli_chr08	8853201	CC	AA	1946906260
SNP_P4_106102_8853514	NC_021167.1	Ca_kabuli_chr08	8853514	TT	GG	1946906263
SNP_P4_106103_8854023	NC_021167.1	Ca_kabuli_chr08	8854023	TT	CC	1946906265
SNP_P4_106104_8854375	NC_021167.1	Ca_kabuli_chr08	8854375	AA	GG	1946906267
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SNP_P4_106106_8854621	NC_021167.1	Ca_kabuli_chr08	8854621	TT	GG	1946906271
SNP_P4_106108_8855041	NC_021167.1	Ca_kabuli_chr08	8855041	CC	GG	1946906273
SNP_P4_106109_8855414	NC_021167.1	Ca_kabuli_chr08	8855414	CC	AA	1946906275
SNP_P4_106110_8856372	NC_021167.1	Ca_kabuli_chr08	8856372	CC	TT	1946906277
SNP_P4_106111_8856393	NC_021167.1	Ca_kabuli_chr08	8856393	TT	CC	1946906279
SNP_P4_106112_8856630	NC_021167.1	Ca_kabuli_chr08	8856630	TT	CC	1946906281
SNP_P4_106113_8857462	NC_021167.1	Ca_kabuli_chr08	8857462	GG	AA	1946906284

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_106116_8858128	NC_021167.1	Ca_kabuli_chr08	8858128	CC	TT	1946906290
SNP_P4_106117_8858183	NC_021167.1	Ca_kabuli_chr08	8858183	CC	TT	1946906292
SNP_P4_106118_8858378	NC_021167.1	Ca_kabuli_chr08	8858378	AA	GG	1946906294
SNP_P4_106119_8858389	NC_021167.1	Ca_kabuli_chr08	8858389	GG	TT	1946906296
SNP_P4_106120_8858449	NC_021167.1	Ca_kabuli_chr08	8858449	GG	CC	1946906298
SNP_P4_106122_8858507	NC_021167.1	Ca_kabuli_chr08	8858507	GG	AA	1946906300
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SNP_P4_106124_8859586	NC_021167.1	Ca_kabuli_chr08	8859586	TT	CC	1946906304
SNP_P4_106125_8859589	NC_021167.1	Ca_kabuli_chr08	8859589	GG	AA	1946906306
SNP_P4_106129_8861195	NC_021167.1	Ca_kabuli_chr08	8861195	CC	TT	1946906308
SNP_P4_106130_8861249	NC_021167.1	Ca_kabuli_chr08	8861249	GG	AA	1946906310
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SNP_P4_106132_8861365	NC_021167.1	Ca_kabuli_chr08	8861365	CC	TT	1946906314
SNP_P4_106133_8861371	NC_021167.1	Ca_kabuli_chr08	8861371	TT	CC	1946906316
SNP_P4_106134_8861565	NC_021167.1	Ca_kabuli_chr08	8861565	AA	GG	1946906318
SNP_P4_106135_8861713	NC_021167.1	Ca_kabuli_chr08	8861713	AA	GG	1946906320
SNP_P4_106136_8861767	NC_021167.1	Ca_kabuli_chr08	8861767	GG	AA	1946906322
SNP_P4_106137_8861800	NC_021167.1	Ca_kabuli_chr08	8861800	GG	AA	1946906324
SNP_P4_106138_8861801	NC_021167.1	Ca_kabuli_chr08	8861801	GG	AA	1946906326
SNP_P4_106139_8861802	NC_021167.1	Ca_kabuli_chr08	8861802	CC	GG	1946906328
SNP_P4_106140_8862492	NC_021167.1	Ca_kabuli_chr08	8862492	TT	CC	1946906330
SNP_P4_106141_8862570	NC_021167.1	Ca_kabuli_chr08	8862570	AA	GG	1946906332
SNP_P4_106142_8862576	NC_021167.1	Ca_kabuli_chr08	8862576	TT	CC	1946906334
SNP_P4_106143_8862578	NC_021167.1	Ca_kabuli_chr08	8862578	AA	GG	1946906337
SNP_P4_106144_8862585	NC_021167.1	Ca_kabuli_chr08	8862585	GG	AA	1946906338
SNP_P4_106145_8862741	NC_021167.1	Ca_kabuli_chr08	8862741	GG	TT	1946906340
SNP_P4_106146_8862746	NC_021167.1	Ca_kabuli_chr08	8862746	AA	GG	1946906342
SNP_P4_106147_8862756	NC_021167.1	Ca_kabuli_chr08	8862756	GG	TT	1946906345
SNP_P4_106148_8862759	NC_021167.1	Ca_kabuli_chr08	8862759	TT	GG	1946906347
SNP_P4_106149_8864853	NC_021167.1	Ca_kabuli_chr08	8864853	TT	CC	1946906349
SNP_P4_106150_8868029	NC_021167.1	Ca_kabuli_chr08	8868029	TT	CC	1946906350
SNP_P4_106151_8868034	NC_021167.1	Ca_kabuli_chr08	8868034	GG	AA	1946906352
SNP_P4_106152_8868050	NC_021167.1	Ca_kabuli_chr08	8868050	AA	GG	1946906354
SNP_P4_106153_8868094	NC_021167.1	Ca_kabuli_chr08	8868094	AA	GG	1946906356
SNP_P4_106154_8868704	NC_021167.1	Ca_kabuli_chr08	8868704	GG	AA	1946906358
SNP_P4_106156_8868917	NC_021167.1	Ca_kabuli_chr08	8868917	AA	GG	1946906360
SNP_P4_106157_8868944	NC_021167.1	Ca_kabuli_chr08	8868944	CC	TT	1946906362
SNP_P4_106158_8868958	NC_021167.1	Ca_kabuli_chr08	8868958	GG	AA	1946906364
SNP_P4_106159_8868996	NC_021167.1	Ca_kabuli_chr08	8868996	CC	TT	1946906366
SNP_P4_106160_8868999	NC_021167.1	Ca_kabuli_chr08	8868999	GG	AA	1946906368

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_106162_8869158	NC_021167.1	Ca_kabuli_chr08	8869158	CC	TT	1946906372
SNP_P4_106165_8869248	NC_021167.1	Ca_kabuli_chr08	8869248	AA	GG	1946906374
SNP_P4_106166_8869397	NC_021167.1	Ca_kabuli_chr08	8869397	GG	TT	1946906376
SNP_P4_106167_8870244	NC_021167.1	Ca_kabuli_chr08	8870244	TT	GG	1946906378
SNP_P4_106168_8871029	NC_021167.1	Ca_kabuli_chr08	8871029	CC	GG	1946906380
SNP_P4_106169_8871037	NC_021167.1	Ca_kabuli_chr08	8871037	GG	AA	1946906382
SNP_P4_106170_8872797	NC_021167.1	Ca_kabuli_chr08	8872797	CC	AA	1946906384
SNP_P4_106171_8872861	NC_021167.1	Ca_kabuli_chr08	8872861	GG	CC	1946906386
SNP_P4_106172_8872981	NC_021167.1	Ca_kabuli_chr08	8872981	CC	GG	1946906388
SNP_P4_106173_8873523	NC_021167.1	Ca_kabuli_chr08	8873523	TT	CC	1946906390
SNP_P4_106174_8874615	NC_021167.1	Ca_kabuli_chr08	8874615	AA	CC	1946906392
SNP_P4_106175_8874673	NC_021167.1	Ca_kabuli_chr08	8874673	TT	AA	1946906394
SNP_P4_106176_8874995	NC_021167.1	Ca_kabuli_chr08	8874995	GG	AA	1946906396
SNP_P4_106177_8875006	NC_021167.1	Ca_kabuli_chr08	8875006	TT	CC	1946906398
SNP_P4_106178_8875019	NC_021167.1	Ca_kabuli_chr08	8875019	TT	CC	1946906400
SNP_P4_106179_8875028	NC_021167.1	Ca_kabuli_chr08	8875028	TT	CC	1946906402
SNP_P4_106180_8875039	NC_021167.1	Ca_kabuli_chr08	8875039	GG	TT	1946906404
SNP_P4_106181_8875062	NC_021167.1	Ca_kabuli_chr08	8875062	AA	GG	1946906406
SNP_P4_106182_8875714	NC_021167.1	Ca_kabuli_chr08	8875714	AA	GG	1946906408
SNP_P4_106183_8876216	NC_021167.1	Ca_kabuli_chr08	8876216	AA	TT	1946906410
SNP_P4_106184_8876228	NC_021167.1	Ca_kabuli_chr08	8876228	TT	CC	1946906412
SNP_P4_106185_8878183	NC_021167.1	Ca_kabuli_chr08	8878183	AA	GG	1946906414
SNP_P4_106187_8878838	NC_021167.1	Ca_kabuli_chr08	8878838	CC	GG	1946906416
SNP_P4_106188_8878862	NC_021167.1	Ca_kabuli_chr08	8878862	GG	AA	1946906418
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SNP_P4_106192_8880019	NC_021167.1	Ca_kabuli_chr08	8880019	CC	AA	1946906425
SNP_P4_106193_8880025	NC_021167.1	Ca_kabuli_chr08	8880025	AA	GG	1946906427
SNP_P4_106194_8880026	NC_021167.1	Ca_kabuli_chr08	8880026	AA	GG	1946906429
SNP_P4_106195_8880065	NC_021167.1	Ca_kabuli_chr08	8880065	GG	AA	1946906431
SNP_P4_106196_8880098	NC_021167.1	Ca_kabuli_chr08	8880098	AA	GG	1946906433
SNP_P4_106197_8880475	NC_021167.1	Ca_kabuli_chr08	8880475	TT	CC	1946906435
SNP_P4_106198_8880515	NC_021167.1	Ca_kabuli_chr08	8880515	GG	TT	1946906438
SNP_P4_106199_8880561	NC_021167.1	Ca_kabuli_chr08	8880561	AA	TT	1946906440
SNP_P4_106201_8880581	NC_021167.1	Ca_kabuli_chr08	8880581	TT	AA	1946906442
SNP_P4_106202_8880667	NC_021167.1	Ca_kabuli_chr08	8880667	GG	AA	1946906444
SNP_P4_106203_8880674	NC_021167.1	Ca_kabuli_chr08	8880674	TT	GG	1946906446
SNP_P4_106204_8881371	NC_021167.1	Ca_kabuli_chr08	8881371	GG	AA	1946906448
SNP_P4_106205_8881388	NC_021167.1	Ca_kabuli_chr08	8881388	AA	GG	1946906450
SNP_P4_106209_8882263	NC_021167.1	Ca_kabuli_chr08	8882263	TT	CC	1946906452
SNP_P4_106210_8883411	NC_021167.1	Ca_kabuli_chr08	8883411	GG	AA	1946906454

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_106212_8884251	NC_021167.1	Ca_kabuli_chr08	8884251	TT	CC	1946906458
SNP_P4_106216_8885260	NC_021167.1	Ca_kabuli_chr08	8885260	CC	TT	1946906460
SNP_P4_106217_8885408	NC_021167.1	Ca_kabuli_chr08	8885408	TT	CC	1946906462
SNP_P4_106218_8885575	NC_021167.1	Ca_kabuli_chr08	8885575	AA	GG	1946906464
SNP_P4_106219_8886016	NC_021167.1	Ca_kabuli_chr08	8886016	TT	CC	1946906466
SNP_P4_106220_8886311	NC_021167.1	Ca_kabuli_chr08	8886311	TT	CC	1946906468
SNP_P4_106221_8886315	NC_021167.1	Ca_kabuli_chr08	8886315	CC	TT	1946906470
SNP_P4_106222_8886328	NC_021167.1	Ca_kabuli_chr08	8886328	CC	TT	1946906472
SNP_P4_106223_8886342	NC_021167.1	Ca_kabuli_chr08	8886342	TT	CC	1946906474
SNP_P4_106224_8886398	NC_021167.1	Ca_kabuli_chr08	8886398	TT	CC	1946906476
SNP_P4_106225_8886401	NC_021167.1	Ca_kabuli_chr08	8886401	GG	CC	1946906478
SNP_P4_106226_8887172	NC_021167.1	Ca_kabuli_chr08	8887172	GG	AA	1946906480
SNP_P4_106227_8887403	NC_021167.1	Ca_kabuli_chr08	8887403	GG	AA	1946906482
SNP_P4_106228_8887452	NC_021167.1	Ca_kabuli_chr08	8887452	CC	TT	1946906484
SNP_P4_106229_8887453	NC_021167.1	Ca_kabuli_chr08	8887453	GG	AA	1946906486
SNP_P4_106230_8887794	NC_021167.1	Ca_kabuli_chr08	8887794	AA	TT	1946906488
SNP_P4_106231_8887799	NC_021167.1	Ca_kabuli_chr08	8887799	GG	AA	1946906490
SNP_P4_106233_8888352	NC_021167.1	Ca_kabuli_chr08	8888352	CC	TT	1946906492
SNP_P4_106234_8888412	NC_021167.1	Ca_kabuli_chr08	8888412	GG	AA	1946906494
SNP_P4_106235_8888414	NC_021167.1	Ca_kabuli_chr08	8888414	TT	GG	1946906496
SNP_P4_106236_8893607	NC_021167.1	Ca_kabuli_chr08	8893607	GG	AA	1946906498
SNP_P4_106237_8894084	NC_021167.1	Ca_kabuli_chr08	8894084	AA	GG	1946906499
SNP_P4_106239_8897196	NC_021167.1	Ca_kabuli_chr08	8897196	CC	GG	1946906500
SNP_P4_106241_8900262	NC_021167.1	Ca_kabuli_chr08	8900262	AA	GG	1946906501
SNP_P4_106242_8900501	NC_021167.1	Ca_kabuli_chr08	8900501	CC	TT	1946906502
SNP_P4_106243_8901665	NC_021167.1	Ca_kabuli_chr08	8901665	AA	GG	1946906503
SNP_P4_106245_8902110	NC_021167.1	Ca_kabuli_chr08	8902110	GG	TT	1946906504
SNP_P4_106246_8902133	NC_021167.1	Ca_kabuli_chr08	8902133	CC	TT	1946906505
SNP_P4_106247_8902304	NC_021167.1	Ca_kabuli_chr08	8902304	TT	CC	1946906507
SNP_P4_106248_8902320	NC_021167.1	Ca_kabuli_chr08	8902320	CC	TT	1946906509
SNP_P4_106249_8902453	NC_021167.1	Ca_kabuli_chr08	8902453	GG	AA	1946906511
SNP_P4_106250_8902533	NC_021167.1	Ca_kabuli_chr08	8902533	GG	AA	1946906513
SNP_P4_106251_8902646	NC_021167.1	Ca_kabuli_chr08	8902646	CC	TT	1946906515
SNP_P4_106253_8905505	NC_021167.1	Ca_kabuli_chr08	8905505	TT	CC	1946906517
SNP_P4_106254_8906817	NC_021167.1	Ca_kabuli_chr08	8906817	CC	GG	1946906519
SNP_P4_106258_8907704	NC_021167.1	Ca_kabuli_chr08	8907704	AA	GG	1946906521
SNP_P4_106259_8907985	NC_021167.1	Ca_kabuli_chr08	8907985	AA	GG	1946906523
SNP_P4_106260_8907987	NC_021167.1	Ca_kabuli_chr08	8907987	TT	CC	1946906525
SNP_P4_106261_8908021	NC_021167.1	Ca_kabuli_chr08	8908021	AA	CC	1946906527
SNP_P4_106262_8908042	NC_021167.1	Ca_kabuli_chr08	8908042	AA	GG	1946906529
SNP_P4_106263_8908235	NC_021167.1	Ca_kabuli_chr08	8908235	AA	CC	1946906531

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_106265_8908525	NC_021167.1	Ca_kabuli_chr08	8908525	TT	CC	1946906535
SNP_P4_106266_8908529	NC_021167.1	Ca_kabuli_chr08	8908529	TT	CC	1946906537
SNP_P4_106267_8908535	NC_021167.1	Ca_kabuli_chr08	8908535	CC	TT	1946906539
SNP_P4_106268_8908539	NC_021167.1	Ca_kabuli_chr08	8908539	TT	GG	1946906541
SNP_P4_106269_8908761	NC_021167.1	Ca_kabuli_chr08	8908761	TT	AA	1946906543
SNP_P4_106271_8910046	NC_021167.1	Ca_kabuli_chr08	8910046	TT	CC	1946906545
SNP_P4_106272_8910784	NC_021167.1	Ca_kabuli_chr08	8910784	TT	CC	1946906547
SNP_P4_106273_8912182	NC_021167.1	Ca_kabuli_chr08	8912182	TT	GG	1946906549
SNP_P4_106274_8912245	NC_021167.1	Ca_kabuli_chr08	8912245	CC	TT	1946906551
SNP_P4_106275_8913699	NC_021167.1	Ca_kabuli_chr08	8913699	AA	GG	1946906553
SNP_P4_106276_8913717	NC_021167.1	Ca_kabuli_chr08	8913717	TT	CC	1946906555
SNP_P4_106277_8914018	NC_021167.1	Ca_kabuli_chr08	8914018	AA	CC	1946906557
SNP_P4_106278_8916127	NC_021167.1	Ca_kabuli_chr08	8916127	GG	CC	1946906559
SNP_P4_106279_8916135	NC_021167.1	Ca_kabuli_chr08	8916135	TT	AA	1946906562
SNP_P4_106280_8916363	NC_021167.1	Ca_kabuli_chr08	8916363	AA	TT	1946906564
SNP_P4_106281_8916701	NC_021167.1	Ca_kabuli_chr08	8916701	GG	AA	1946906566
SNP_P4_106282_8916839	NC_021167.1	Ca_kabuli_chr08	8916839	TT	AA	1946906568
SNP_P4_106283_8920161	NC_021167.1	Ca_kabuli_chr08	8920161	AA	GG	1946906570
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SNP_P4_106286_8921030	NC_021167.1	Ca_kabuli_chr08	8921030	CC	TT	1946906574
SNP_P4_106287_8921241	NC_021167.1	Ca_kabuli_chr08	8921241	TT	GG	1946906576
SNP_P4_106289_8921596	NC_021167.1	Ca_kabuli_chr08	8921596	TT	AA	1946906578
SNP_P4_106290_8921600	NC_021167.1	Ca_kabuli_chr08	8921600	GG	AA	1946906581
SNP_P4_106291_8921601	NC_021167.1	Ca_kabuli_chr08	8921601	AA	GG	1946906583
SNP_P4_106292_8921607	NC_021167.1	Ca_kabuli_chr08	8921607	CC	TT	1946906585
SNP_P4_106293_8921611	NC_021167.1	Ca_kabuli_chr08	8921611	TT	GG	1946906587
SNP_P4_106294_8922129	NC_021167.1	Ca_kabuli_chr08	8922129	TT	CC	1946906589
SNP_P4_106295_8922164	NC_021167.1	Ca_kabuli_chr08	8922164	TT	CC	1946906591
SNP_P4_106296_8922168	NC_021167.1	Ca_kabuli_chr08	8922168	GG	AA	1946906593
SNP_P4_106297_8922474	NC_021167.1	Ca_kabuli_chr08	8922474	AA	GG	1946906595
SNP_P4_106299_8922834	NC_021167.1	Ca_kabuli_chr08	8922834	TT	AA	1946906597
SNP_P4_106300_8923015	NC_021167.1	Ca_kabuli_chr08	8923015	AA	GG	1946906599
SNP_P4_106301_8923107	NC_021167.1	Ca_kabuli_chr08	8923107	AA	GG	1946906601
SNP_P4_106302_8923225	NC_021167.1	Ca_kabuli_chr08	8923225	GG	AA	1946906603
SNP_P4_106303_8923730	NC_021167.1	Ca_kabuli_chr08	8923730	GG	AA	1946906605
SNP_P4_106304_8924006	NC_021167.1	Ca_kabuli_chr08	8924006	GG	AA	1946906607
SNP_P4_106305_8924044	NC_021167.1	Ca_kabuli_chr08	8924044	AA	GG	1946906610
SNP_P4_106306_8924196	NC_021167.1	Ca_kabuli_chr08	8924196	AA	GG	1946906612
SNP_P4_106307_8925087	NC_021167.1	Ca_kabuli_chr08	8925087	CC	TT	1946906614
SNP_P4_106308_8927558	NC_021167.1	Ca_kabuli_chr08	8927558	AA	CC	1946906616
SNP_P4_106309_8927574	NC_021167.1	Ca_kabuli_chr08	8927574	CC	AA	1946906618

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_106312_8937807	NC_021167.1	Ca_kabuli_chr08	8937807	AA	GG	1946906622
SNP_P4_106313_8937818	NC_021167.1	Ca_kabuli_chr08	8937818	GG	TT	1946906624
SNP_P4_106315_8941237	NC_021167.1	Ca_kabuli_chr08	8941237	AA	TT	1946906626
SNP_P4_106316_8941956	NC_021167.1	Ca_kabuli_chr08	8941956	AA	TT	1946906628
SNP_P4_106317_8943474	NC_021167.1	Ca_kabuli_chr08	8943474	AA	GG	1946906630
SNP_P4_106318_8950094	NC_021167.1	Ca_kabuli_chr08	8950094	AA	GG	1946906632
SNP_P4_106319_8950193	NC_021167.1	Ca_kabuli_chr08	8950193	AA	GG	1946906634
SNP_P4_106320_8950497	NC_021167.1	Ca_kabuli_chr08	8950497	AA	GG	1946906636
SNP_P4_106321_8950871	NC_021167.1	Ca_kabuli_chr08	8950871	CC	TT	1946906638
SNP_P4_106322_8951091	NC_021167.1	Ca_kabuli_chr08	8951091	AA	GG	1946906640
SNP_P4_106323_8951349	NC_021167.1	Ca_kabuli_chr08	8951349	GG	CC	1946906642
SNP_P4_106325_8951417	NC_021167.1	Ca_kabuli_chr08	8951417	AA	GG	1946906644
SNP_P4_106326_8952932	NC_021167.1	Ca_kabuli_chr08	8952932	TT	CC	1946906646
SNP_P4_106330_8956481	NC_021167.1	Ca_kabuli_chr08	8956481	GG	TT	1946906648
SNP_P4_106331_8956554	NC_021167.1	Ca_kabuli_chr08	8956554	GG	AA	1946906650
SNP_P4_106334_8956658	NC_021167.1	Ca_kabuli_chr08	8956658	GG	AA	1946906652
SNP_P4_106335_8958089	NC_021167.1	Ca_kabuli_chr08	8958089	TT	GG	1946906654
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SNP_P4_106337_8959302	NC_021167.1	Ca_kabuli_chr08	8959302	CC	AA	1946906658
SNP_P4_106338_8959421	NC_021167.1	Ca_kabuli_chr08	8959421	TT	AA	1946906660
SNP_P4_106339_8960387	NC_021167.1	Ca_kabuli_chr08	8960387	TT	CC	1946906662
SNP_P4_106340_8960416	NC_021167.1	Ca_kabuli_chr08	8960416	CC	TT	1946906664
SNP_P4_106341_8960771	NC_021167.1	Ca_kabuli_chr08	8960771	CC	AA	1946906667
SNP_P4_106342_8961102	NC_021167.1	Ca_kabuli_chr08	8961102	GG	AA	1946906669
SNP_P4_106343_8961112	NC_021167.1	Ca_kabuli_chr08	8961112	TT	CC	1946906671
SNP_P4_106344_8961166	NC_021167.1	Ca_kabuli_chr08	8961166	TT	AA	1946906673
SNP_P4_106345_8961549	NC_021167.1	Ca_kabuli_chr08	8961549	TT	CC	1946906675
SNP_P4_106346_8961864	NC_021167.1	Ca_kabuli_chr08	8961864	TT	GG	1946906677
SNP_P4_106347_8962901	NC_021167.1	Ca_kabuli_chr08	8962901	GG	AA	1946906679
SNP_P4_106348_8962905	NC_021167.1	Ca_kabuli_chr08	8962905	GG	TT	1946906681
SNP_P4_106349_8962952	NC_021167.1	Ca_kabuli_chr08	8962952	TT	GG	1946906683
SNP_P4_106350_8963219	NC_021167.1	Ca_kabuli_chr08	8963219	AA	GG	1946906685
SNP_P4_106351_8963277	NC_021167.1	Ca_kabuli_chr08	8963277	CC	TT	1946906687
SNP_P4_106352_8963279	NC_021167.1	Ca_kabuli_chr08	8963279	CC	TT	1946906689
SNP_P4_106353_8963280	NC_021167.1	Ca_kabuli_chr08	8963280	CC	AA	1946906691
SNP_P4_106354_8963304	NC_021167.1	Ca_kabuli_chr08	8963304	TT	CC	1946906693
SNP_P4_106356_8967512	NC_021167.1	Ca_kabuli_chr08	8967512	GG	AA	1946906695
SNP_P4_106359_8967879	NC_021167.1	Ca_kabuli_chr08	8967879	TT	CC	1946906697
SNP_P4_106360_8967890	NC_021167.1	Ca_kabuli_chr08	8967890	TT	CC	1946906699
SNP_P4_106361_8967942	NC_021167.1	Ca_kabuli_chr08	8967942	TT	GG	1946906701
SNP_P4_106362_8968002	NC_021167.1	Ca_kabuli_chr08	8968002	TT	CC	1946906703

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_106364_8968170	NC_021167.1	Ca_kabuli_chr08	8968170	CC	TT	1946906707
SNP_P4_106365_8968312	NC_021167.1	Ca_kabuli_chr08	8968312	TT	AA	1946906709
SNP_P4_106368_8968647	NC_021167.1	Ca_kabuli_chr08	8968647	GG	AA	1946906711
SNP_P4_106369_8968668	NC_021167.1	Ca_kabuli_chr08	8968668	AA	GG	1946906713
SNP_P4_106370_8968674	NC_021167.1	Ca_kabuli_chr08	8968674	TT	CC	1946906716
SNP_P4_106371_8968753	NC_021167.1	Ca_kabuli_chr08	8968753	AA	GG	1946906718
SNP_P4_106372_8968926	NC_021167.1	Ca_kabuli_chr08	8968926	CC	TT	1946906720
SNP_P4_106373_8968934	NC_021167.1	Ca_kabuli_chr08	8968934	AA	GG	1946906722
SNP_P4_106374_8968953	NC_021167.1	Ca_kabuli_chr08	8968953	GG	AA	1946906724
SNP_P4_106375_8969028	NC_021167.1	Ca_kabuli_chr08	8969028	AA	GG	1946906726
SNP_P4_106376_8969052	NC_021167.1	Ca_kabuli_chr08	8969052	TT	GG	1946906728
SNP_P4_106377_8969267	NC_021167.1	Ca_kabuli_chr08	8969267	TT	CC	1946906730
SNP_P4_106378_8969269	NC_021167.1	Ca_kabuli_chr08	8969269	GG	AA	1946906732
SNP_P4_106381_8969390	NC_021167.1	Ca_kabuli_chr08	8969390	CC	TT	1946906734
SNP_P4_106382_8969393	NC_021167.1	Ca_kabuli_chr08	8969393	CC	AA	1946906736
SNP_P4_106383_8969404	NC_021167.1	Ca_kabuli_chr08	8969404	GG	AA	1946906738
SNP_P4_106384_8969521	NC_021167.1	Ca_kabuli_chr08	8969521	TT	CC	1946906740
SNP_P4_106385_8969528	NC_021167.1	Ca_kabuli_chr08	8969528	CC	TT	1946906742
SNP_P4_106386_8969559	NC_021167.1	Ca_kabuli_chr08	8969559	AA	GG	1946906744
SNP_P4_106387_8969577	NC_021167.1	Ca_kabuli_chr08	8969577	TT	CC	1946906746
SNP_P4_106388_8969973	NC_021167.1	Ca_kabuli_chr08	8969973	TT	CC	1946906748
SNP_P4_106389_8969977	NC_021167.1	Ca_kabuli_chr08	8969977	AA	TT	1946906750
SNP_P4_106390_8969982	NC_021167.1	Ca_kabuli_chr08	8969982	GG	AA	1946906752
SNP_P4_106391_8970341	NC_021167.1	Ca_kabuli_chr08	8970341	CC	GG	1946906754
SNP_P4_106392_8970342	NC_021167.1	Ca_kabuli_chr08	8970342	AA	GG	1946906756
SNP_P4_106393_8970347	NC_021167.1	Ca_kabuli_chr08	8970347	TT	CC	1946906758
SNP_P4_106394_8970414	NC_021167.1	Ca_kabuli_chr08	8970414	CC	TT	1946906760
SNP_P4_106395_8970424	NC_021167.1	Ca_kabuli_chr08	8970424	GG	AA	1946906762
SNP_P4_106396_8970483	NC_021167.1	Ca_kabuli_chr08	8970483	AA	GG	1946906765
SNP_P4_106397_8972011	NC_021167.1	Ca_kabuli_chr08	8972011	CC	TT	1946906767
SNP_P4_106398_8972337	NC_021167.1	Ca_kabuli_chr08	8972337	CC	TT	1946906769
SNP_P4_106403_8973335	NC_021167.1	Ca_kabuli_chr08	8973335	TT	CC	1946906771
SNP_P4_106404_8973351	NC_021167.1	Ca_kabuli_chr08	8973351	AA	GG	1946906773
SNP_P4_106405_8973645	NC_021167.1	Ca_kabuli_chr08	8973645	AA	GG	1946906775
SNP_P4_106406_8973679	NC_021167.1	Ca_kabuli_chr08	8973679	GG	TT	1946906777
SNP_P4_106407_8973710	NC_021167.1	Ca_kabuli_chr08	8973710	GG	TT	1946906779
SNP_P4_106408_8973957	NC_021167.1	Ca_kabuli_chr08	8973957	AA	TT	1946906781
SNP_P4_106411_8974098	NC_021167.1	Ca_kabuli_chr08	8974098	AA	TT	1946906783
SNP_P4_106412_8974154	NC_021167.1	Ca_kabuli_chr08	8974154	TT	GG	1946906785
SNP_P4_106413_8974171	NC_021167.1	Ca_kabuli_chr08	8974171	CC	TT	1946906787
SNP_P4_106414_8974172	NC_021167.1	Ca_kabuli_chr08	8974172	GG	AA	1946906789

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_106416_8974240	NC_021167.1	Ca_kabuli_chr08	8974240	TT	CC	1946906793
SNP_P4_106417_8974612	NC_021167.1	Ca_kabuli_chr08	8974612	GG	TT	1946906795
SNP_P4_106418_8974617	NC_021167.1	Ca_kabuli_chr08	8974617	CC	TT	1946906797
SNP_P4_106420_8974744	NC_021167.1	Ca_kabuli_chr08	8974744	TT	GG	1946906799
SNP_P4_106421_8974745	NC_021167.1	Ca_kabuli_chr08	8974745	TT	AA	1946906801
SNP_P4_106422_8975028	NC_021167.1	Ca_kabuli_chr08	8975028	AA	TT	1946906803
SNP_P4_106423_8979311	NC_021167.1	Ca_kabuli_chr08	8979311	CC	TT	1946906805
SNP_P4_106424_8979468	NC_021167.1	Ca_kabuli_chr08	8979468	GG	AA	1946906807
SNP_P4_106425_8979565	NC_021167.1	Ca_kabuli_chr08	8979565	AA	GG	1946906809
SNP_P4_106426_8979607	NC_021167.1	Ca_kabuli_chr08	8979607	AA	GG	1946906811
SNP_P4_106427_8979614	NC_021167.1	Ca_kabuli_chr08	8979614	AA	GG	1946906813
SNP_P4_106428_8979642	NC_021167.1	Ca_kabuli_chr08	8979642	CC	TT	1946906815
SNP_P4_106429_8979845	NC_021167.1	Ca_kabuli_chr08	8979845	TT	CC	1946906817
SNP_P4_106430_8979959	NC_021167.1	Ca_kabuli_chr08	8979959	TT	AA	1946906819
SNP_P4_106431_8980020	NC_021167.1	Ca_kabuli_chr08	8980020	TT	AA	1946906822
SNP_P4_106432_8980021	NC_021167.1	Ca_kabuli_chr08	8980021	GG	AA	1946906824
SNP_P4_106433_8980027	NC_021167.1	Ca_kabuli_chr08	8980027	AA	GG	1946906826
SNP_P4_106434_8980118	NC_021167.1	Ca_kabuli_chr08	8980118	GG	AA	1946906828
SNP_P4_106435_8980147	NC_021167.1	Ca_kabuli_chr08	8980147	GG	AA	1946906830
SNP_P4_106436_8980168	NC_021167.1	Ca_kabuli_chr08	8980168	AA	GG	1946906832
SNP_P4_106437_8980180	NC_021167.1	Ca_kabuli_chr08	8980180	TT	AA	1946906834
SNP_P4_106440_8981379	NC_021167.1	Ca_kabuli_chr08	8981379	CC	TT	1946906836
SNP_P4_106441_8981614	NC_021167.1	Ca_kabuli_chr08	8981614	CC	TT	1946906838
SNP_P4_106442_8981967	NC_021167.1	Ca_kabuli_chr08	8981967	AA	CC	1946906840
SNP_P4_106443_8981968	NC_021167.1	Ca_kabuli_chr08	8981968	CC	AA	1946906842
SNP_P4_106444_8981977	NC_021167.1	Ca_kabuli_chr08	8981977	AA	TT	1946906844
SNP_P4_106445_8982026	NC_021167.1	Ca_kabuli_chr08	8982026	AA	GG	1946906846
SNP_P4_106446_8982251	NC_021167.1	Ca_kabuli_chr08	8982251	TT	AA	1946906848
SNP_P4_106447_8994031	NC_021167.1	Ca_kabuli_chr08	8994031	AA	TT	1946906850
SNP_P4_106448_8994176	NC_021167.1	Ca_kabuli_chr08	8994176	TT	CC	1946906852
SNP_P4_106449_8994279	NC_021167.1	Ca_kabuli_chr08	8994279	AA	TT	1946906854
SNP_P4_106451_8994357	NC_021167.1	Ca_kabuli_chr08	8994357	TT	CC	1946906856
SNP_P4_106452_8994413	NC_021167.1	Ca_kabuli_chr08	8994413	CC	TT	1946906858
SNP_P4_106453_8994446	NC_021167.1	Ca_kabuli_chr08	8994446	CC	TT	1946906860
SNP_P4_106454_8994455	NC_021167.1	Ca_kabuli_chr08	8994455	TT	GG	1946906862
SNP_P4_106455_8994459	NC_021167.1	Ca_kabuli_chr08	8994459	TT	CC	1946906864
SNP_P4_106456_8994465	NC_021167.1	Ca_kabuli_chr08	8994465	AA	TT	1946906866
SNP_P4_106457_8994493	NC_021167.1	Ca_kabuli_chr08	8994493	TT	GG	1946906868
SNP_P4_106458_8994619	NC_021167.1	Ca_kabuli_chr08	8994619	TT	CC	1946906870
SNP_P4_106459_8994926	NC_021167.1	Ca_kabuli_chr08	8994926	TT	CC	1946906872
SNP_P4_106460_8994936	NC_021167.1	Ca_kabuli_chr08	8994936	AA	TT	1946906874

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_106462_8995007	NC_021167.1	Ca_kabuli_chr08	8995007	GG	CC	1946906878
SNP_P4_106463_8995984	NC_021167.1	Ca_kabuli_chr08	8995984	AA	TT	1946906880
SNP_P4_106469_8997315	NC_021167.1	Ca_kabuli_chr08	8997315	GG	AA	1946906882
SNP_P4_106470_8997370	NC_021167.1	Ca_kabuli_chr08	8997370	TT	GG	1946906884
SNP_P4_106471_8997728	NC_021167.1	Ca_kabuli_chr08	8997728	GG	AA	1946906886
SNP_P4_106472_8997863	NC_021167.1	Ca_kabuli_chr08	8997863	GG	TT	1946906888
SNP_P4_106475_8998073	NC_021167.1	Ca_kabuli_chr08	8998073	TT	GG	1946906890
SNP_P4_106476_8998261	NC_021167.1	Ca_kabuli_chr08	8998261	GG	AA	1946906892
SNP_P4_106477_8998381	NC_021167.1	Ca_kabuli_chr08	8998381	GG	CC	1946906894
SNP_P4_106478_8998384	NC_021167.1	Ca_kabuli_chr08	8998384	AA	TT	1946906896
SNP_P4_106479_8998400	NC_021167.1	Ca_kabuli_chr08	8998400	TT	CC	1946906898
SNP_P4_106480_8998405	NC_021167.1	Ca_kabuli_chr08	8998405	GG	AA	1946906900
SNP_P4_106481_8998443	NC_021167.1	Ca_kabuli_chr08	8998443	CC	TT	1946906902
SNP_P4_106482_8998533	NC_021167.1	Ca_kabuli_chr08	8998533	CC	GG	1946906904
SNP_P4_106483_8998557	NC_021167.1	Ca_kabuli_chr08	8998557	AA	GG	1946906906
SNP_P4_106484_8998578	NC_021167.1	Ca_kabuli_chr08	8998578	TT	AA	1946906908
SNP_P4_106485_8998589	NC_021167.1	Ca_kabuli_chr08	8998589	CC	TT	1946906910
SNP_P4_106486_8999315	NC_021167.1	Ca_kabuli_chr08	8999315	GG	AA	1946906912
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SNP_P4_106489_9000986	NC_021167.1	Ca_kabuli_chr08	9000986	CC	TT	1946906916
SNP_P4_106491_9001618	NC_021167.1	Ca_kabuli_chr08	9001618	GG	TT	1946906918
SNP_P4_106492_9001624	NC_021167.1	Ca_kabuli_chr08	9001624	GG	TT	1946906920
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SNP_P4_106496_9003148	NC_021167.1	Ca_kabuli_chr08	9003148	AA	TT	1946906928
SNP_P4_106498_9003649	NC_021167.1	Ca_kabuli_chr08	9003649	TT	AA	1946906930
SNP_P4_106499_9003866	NC_021167.1	Ca_kabuli_chr08	9003866	AA	GG	1946906932
SNP_P4_106501_9019618	NC_021167.1	Ca_kabuli_chr08	9019618	AA	GG	1946906934
SNP_P4_106502_9019621	NC_021167.1	Ca_kabuli_chr08	9019621	TT	CC	1946906936
SNP_P4_106505_9043940	NC_021167.1	Ca_kabuli_chr08	9043940	TT	CC	1946906938
SNP_P4_106507_9077849	NC_021167.1	Ca_kabuli_chr08	9077849	AA	GG	1946906940
SNP_P4_106508_9077877	NC_021167.1	Ca_kabuli_chr08	9077877	AA	CC	1946906942
SNP_P4_106509_9077892	NC_021167.1	Ca_kabuli_chr08	9077892	AA	GG	1946906944
SNP_P4_106510_9077900	NC_021167.1	Ca_kabuli_chr08	9077900	TT	GG	1946906946
SNP_P4_106513_9079265	NC_021167.1	Ca_kabuli_chr08	9079265	AA	GG	1946906948
SNP_P4_106514_9081068	NC_021167.1	Ca_kabuli_chr08	9081068	TT	AA	1946906950
SNP_P4_106515_9081523	NC_021167.1	Ca_kabuli_chr08	9081523	AA	GG	1946906952
SNP_P4_106519_9082570	NC_021167.1	Ca_kabuli_chr08	9082570	AA	TT	1946906954
SNP_P4_106520_9083002	NC_021167.1	Ca_kabuli_chr08	9083002	TT	AA	1946906957
SNP_P4_106521_9083235	NC_021167.1	Ca_kabuli_chr08	9083235	CC	GG	1946906959

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_106523_9083751	NC_021167.1	Ca_kabuli_chr08	9083751	TT	CC	1946906963
SNP_P4_106524_9084318	NC_021167.1	Ca_kabuli_chr08	9084318	GG	CC	1946906965
SNP_P4_106525_9084582	NC_021167.1	Ca_kabuli_chr08	9084582	TT	CC	1946906967
SNP_P4_106526_9084660	NC_021167.1	Ca_kabuli_chr08	9084660	GG	TT	1946906969
SNP_P4_106528_9086631	NC_021167.1	Ca_kabuli_chr08	9086631	AA	TT	1946906971
SNP_P4_106529_9086634	NC_021167.1	Ca_kabuli_chr08	9086634	TT	CC	1946906973
SNP_P4_106530_9086635	NC_021167.1	Ca_kabuli_chr08	9086635	TT	AA	1946906975
SNP_P4_106531_9086636	NC_021167.1	Ca_kabuli_chr08	9086636	CC	TT	1946906977
SNP_P4_106533_9088151	NC_021167.1	Ca_kabuli_chr08	9088151	AA	GG	1946906979
SNP_P4_106535_9088432	NC_021167.1	Ca_kabuli_chr08	9088432	TT	AA	1946906981
SNP_P4_106537_9088882	NC_021167.1	Ca_kabuli_chr08	9088882	CC	AA	1946906983
SNP_P4_106540_9098025	NC_021167.1	Ca_kabuli_chr08	9098025	CC	TT	1946906985
SNP_P4_106541_9098042	NC_021167.1	Ca_kabuli_chr08	9098042	AA	TT	1946906987
SNP_P4_106542_9098953	NC_021167.1	Ca_kabuli_chr08	9098953	TT	CC	1946906989
SNP_P4_106543_9099002	NC_021167.1	Ca_kabuli_chr08	9099002	CC	AA	1946906991
SNP_P4_106544_9101528	NC_021167.1	Ca_kabuli_chr08	9101528	AA	TT	1946906993
SNP_P4_106547_9101798	NC_021167.1	Ca_kabuli_chr08	9101798	AA	CC	1946906996
SNP_P4_106548_9101801	NC_021167.1	Ca_kabuli_chr08	9101801	TT	CC	1946906998
SNP_P4_106550_9102953	NC_021167.1	Ca_kabuli_chr08	9102953	TT	AA	1946907000
SNP_P4_106551_9102965	NC_021167.1	Ca_kabuli_chr08	9102965	GG	AA	1946907002
SNP_P4_106552_9102983	NC_021167.1	Ca_kabuli_chr08	9102983	GG	TT	1946907004
SNP_P4_106554_9103021	NC_021167.1	Ca_kabuli_chr08	9103021	AA	TT	1946907006
SNP_P4_106557_9104071	NC_021167.1	Ca_kabuli_chr08	9104071	TT	AA	1946907008
SNP_P4_106558_9104402	NC_021167.1	Ca_kabuli_chr08	9104402	AA	GG	1946907010
SNP_P4_106559_9105117	NC_021167.1	Ca_kabuli_chr08	9105117	CC	TT	1946907012
SNP_P4_106560_9105129	NC_021167.1	Ca_kabuli_chr08	9105129	TT	CC	1946907015
SNP_P4_106561_9105318	NC_021167.1	Ca_kabuli_chr08	9105318	GG	AA	1946907017
SNP_P4_106563_9105397	NC_021167.1	Ca_kabuli_chr08	9105397	TT	AA	1946907019
SNP_P4_106565_9110535	NC_021167.1	Ca_kabuli_chr08	9110535	GG	AA	1946907021
SNP_P4_106567_9111641	NC_021167.1	Ca_kabuli_chr08	9111641	GG	AA	1946907023
SNP_P4_106569_9113338	NC_021167.1	Ca_kabuli_chr08	9113338	CC	AA	1946907026
SNP_P4_106570_9113690	NC_021167.1	Ca_kabuli_chr08	9113690	CC	AA	1946907028
SNP_P4_106572_9116815	NC_021167.1	Ca_kabuli_chr08	9116815	TT	GG	1946907030
SNP_P4_106573_9117107	NC_021167.1	Ca_kabuli_chr08	9117107	AA	CC	1946907032
SNP_P4_106574_9117115	NC_021167.1	Ca_kabuli_chr08	9117115	GG	AA	1946907034
SNP_P4_106575_9118255	NC_021167.1	Ca_kabuli_chr08	9118255	CC	AA	1946907036
SNP_P4_106576_9120146	NC_021167.1	Ca_kabuli_chr08	9120146	TT	CC	1946907038
SNP_P4_106577_9120278	NC_021167.1	Ca_kabuli_chr08	9120278	CC	TT	1946907040
SNP_P4_106578_9120304	NC_021167.1	Ca_kabuli_chr08	9120304	TT	CC	1946907042
SNP_P4_106579_9120317	NC_021167.1	Ca_kabuli_chr08	9120317	CC	TT	1946907044
SNP_P4_106580_9120322	NC_021167.1	Ca_kabuli_chr08	9120322	TT	GG	1946907046

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_106582_9120436	NC_021167.1	Ca_kabuli_chr08	9120436	AA	GG	1946907050
SNP_P4_106583_9120446	NC_021167.1	Ca_kabuli_chr08	9120446	AA	TT	1946907052
SNP_P4_106584_9120667	NC_021167.1	Ca_kabuli_chr08	9120667	GG	CC	1946907054
SNP_P4_106585_9120759	NC_021167.1	Ca_kabuli_chr08	9120759	AA	TT	1946907056
SNP_P4_106586_9120793	NC_021167.1	Ca_kabuli_chr08	9120793	AA	GG	1946907058
SNP_P4_106587_9120855	NC_021167.1	Ca_kabuli_chr08	9120855	CC	AA	1946907060
SNP_P4_106588_9120890	NC_021167.1	Ca_kabuli_chr08	9120890	TT	AA	1946907062
SNP_P4_106589_9120941	NC_021167.1	Ca_kabuli_chr08	9120941	GG	AA	1946907064
SNP_P4_106590_9120994	NC_021167.1	Ca_kabuli_chr08	9120994	AA	TT	1946907066
SNP_P4_106591_9121175	NC_021167.1	Ca_kabuli_chr08	9121175	TT	CC	1946907068
SNP_P4_106592_9122364	NC_021167.1	Ca_kabuli_chr08	9122364	AA	CC	1946907070
SNP_P4_106593_9122407	NC_021167.1	Ca_kabuli_chr08	9122407	GG	TT	1946907072
SNP_P4_106594_9122411	NC_021167.1	Ca_kabuli_chr08	9122411	TT	CC	1946907074
SNP_P4_106595_9122422	NC_021167.1	Ca_kabuli_chr08	9122422	GG	AA	1946907076
SNP_P4_106596_9122467	NC_021167.1	Ca_kabuli_chr08	9122467	AA	CC	1946907077
SNP_P4_106597_9122500	NC_021167.1	Ca_kabuli_chr08	9122500	TT	CC	1946907078
SNP_P4_106598_9122504	NC_021167.1	Ca_kabuli_chr08	9122504	CC	TT	1946907079
SNP_P4_106600_9122752	NC_021167.1	Ca_kabuli_chr08	9122752	CC	TT	1946907080
SNP_P4_106601_9122780	NC_021167.1	Ca_kabuli_chr08	9122780	AA	TT	1946907081
SNP_P4_106603_9122909	NC_021167.1	Ca_kabuli_chr08	9122909	AA	GG	1946907082
SNP_P4_106604_9124421	NC_021167.1	Ca_kabuli_chr08	9124421	TT	CC	1946907083
SNP_P4_106605_9124483	NC_021167.1	Ca_kabuli_chr08	9124483	TT	CC	1946907085
SNP_P4_106606_9124564	NC_021167.1	Ca_kabuli_chr08	9124564	AA	TT	1946907087
SNP_P4_106607_9125015	NC_021167.1	Ca_kabuli_chr08	9125015	CC	TT	1946907089
SNP_P4_106608_9125018	NC_021167.1	Ca_kabuli_chr08	9125018	AA	CC	1946907091
SNP_P4_106610_9125074	NC_021167.1	Ca_kabuli_chr08	9125074	CC	TT	1946907093
SNP_P4_106611_9125267	NC_021167.1	Ca_kabuli_chr08	9125267	AA	TT	1946907095
SNP_P4_106612_9125658	NC_021167.1	Ca_kabuli_chr08	9125658	CC	AA	1946907097
SNP_P4_106614_9125758	NC_021167.1	Ca_kabuli_chr08	9125758	TT	CC	1946907099
SNP_P4_106615_9125791	NC_021167.1	Ca_kabuli_chr08	9125791	GG	AA	1946907101
SNP_P4_106616_9125799	NC_021167.1	Ca_kabuli_chr08	9125799	TT	CC	1946907103
SNP_P4_106618_9127446	NC_021167.1	Ca_kabuli_chr08	9127446	GG	AA	1946907105
SNP_P4_106619_9127466	NC_021167.1	Ca_kabuli_chr08	9127466	TT	CC	1946907107
SNP_P4_106620_9127548	NC_021167.1	Ca_kabuli_chr08	9127548	TT	CC	1946907109
SNP_P4_106621_9127551	NC_021167.1	Ca_kabuli_chr08	9127551	GG	AA	1946907112
SNP_P4_106622_9129463	NC_021167.1	Ca_kabuli_chr08	9129463	TT	CC	1946907114
SNP_P4_106623_9130698	NC_021167.1	Ca_kabuli_chr08	9130698	AA	GG	1946907116
SNP_P4_106624_9130826	NC_021167.1	Ca_kabuli_chr08	9130826	CC	TT	1946907118
SNP_P4_106625_9130877	NC_021167.1	Ca_kabuli_chr08	9130877	GG	AA	1946907120
SNP_P4_106626_9130922	NC_021167.1	Ca_kabuli_chr08	9130922	TT	AA	1946907122
SNP_P4_106627_9130968	NC_021167.1	Ca_kabuli_chr08	9130968	GG	TT	1946907124

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_106629_9131806	NC_021167.1	Ca_kabuli_chr08	9131806	CC	AA	1946907129
SNP_P4_106630_9134536	NC_021167.1	Ca_kabuli_chr08	9134536	CC	TT	1946907131
SNP_P4_106633_9136432	NC_021167.1	Ca_kabuli_chr08	9136432	AA	CC	1946907133
SNP_P4_106634_9136716	NC_021167.1	Ca_kabuli_chr08	9136716	AA	TT	1946907135
SNP_P4_106635_9136894	NC_021167.1	Ca_kabuli_chr08	9136894	AA	GG	1946907137
SNP_P4_106636_9136913	NC_021167.1	Ca_kabuli_chr08	9136913	GG	AA	1946907139
SNP_P4_106637_9136957	NC_021167.1	Ca_kabuli_chr08	9136957	TT	CC	1946907141
SNP_P4_106638_9136970	NC_021167.1	Ca_kabuli_chr08	9136970	CC	TT	1946907143
SNP_P4_106639_9136972	NC_021167.1	Ca_kabuli_chr08	9136972	GG	AA	1946907145
SNP_P4_106640_9137712	NC_021167.1	Ca_kabuli_chr08	9137712	CC	TT	1946907147
SNP_P4_106641_9137734	NC_021167.1	Ca_kabuli_chr08	9137734	AA	TT	1946907149
SNP_P4_106642_9138773	NC_021167.1	Ca_kabuli_chr08	9138773	TT	CC	1946907151
SNP_P4_106643_9142811	NC_021167.1	Ca_kabuli_chr08	9142811	TT	CC	1946907153
SNP_P4_106644_9146697	NC_021167.1	Ca_kabuli_chr08	9146697	AA	GG	1946907155
SNP_P4_106645_9146954	NC_021167.1	Ca_kabuli_chr08	9146954	AA	GG	1946907157
SNP_P4_106646_9147863	NC_021167.1	Ca_kabuli_chr08	9147863	GG	AA	1946907159
SNP_P4_106647_9148013	NC_021167.1	Ca_kabuli_chr08	9148013	AA	GG	1946907161
SNP_P4_106648_9149064	NC_021167.1	Ca_kabuli_chr08	9149064	CC	TT	1946907163
SNP_P4_106650_9149152	NC_021167.1	Ca_kabuli_chr08	9149152	TT	CC	1946907165
SNP_P4_106651_9149160	NC_021167.1	Ca_kabuli_chr08	9149160	GG	AA	1946907167
SNP_P4_106652_9149200	NC_021167.1	Ca_kabuli_chr08	9149200	TT	CC	1946907169
SNP_P4_106655_9149460	NC_021167.1	Ca_kabuli_chr08	9149460	CC	GG	1946907171
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SNP_P4_106658_9149543	NC_021167.1	Ca_kabuli_chr08	9149543	TT	CC	1946907175
SNP_P4_106659_9149683	NC_021167.1	Ca_kabuli_chr08	9149683	GG	AA	1946907177
SNP_P4_106661_9151207	NC_021167.1	Ca_kabuli_chr08	9151207	AA	CC	1946907179
SNP_P4_106662_9151486	NC_021167.1	Ca_kabuli_chr08	9151486	AA	GG	1946907181
SNP_P4_106665_9151921	NC_021167.1	Ca_kabuli_chr08	9151921	TT	GG	1946907184
SNP_P4_106666_9152139	NC_021167.1	Ca_kabuli_chr08	9152139	GG	AA	1946907186
SNP_P4_106667_9152140	NC_021167.1	Ca_kabuli_chr08	9152140	CC	AA	1946907188
SNP_P4_106668_9152155	NC_021167.1	Ca_kabuli_chr08	9152155	GG	CC	1946907190
SNP_P4_106669_9152158	NC_021167.1	Ca_kabuli_chr08	9152158	AA	GG	1946907192
SNP_P4_106670_9152186	NC_021167.1	Ca_kabuli_chr08	9152186	CC	TT	1946907194
SNP_P4_106671_9152239	NC_021167.1	Ca_kabuli_chr08	9152239	TT	CC	1946907196
SNP_P4_106672_9152242	NC_021167.1	Ca_kabuli_chr08	9152242	CC	TT	1946907198
SNP_P4_106674_9152679	NC_021167.1	Ca_kabuli_chr08	9152679	AA	GG	1946907200
SNP_P4_106675_9153538	NC_021167.1	Ca_kabuli_chr08	9153538	AA	GG	1946907201
SNP_P4_106676_9153571	NC_021167.1	Ca_kabuli_chr08	9153571	AA	GG	1946907203
SNP_P4_106677_9153815	NC_021167.1	Ca_kabuli_chr08	9153815	CC	TT	1946907205
SNP_P4_106678_9154113	NC_021167.1	Ca_kabuli_chr08	9154113	CC	AA	1946907207
SNP_P4_106679_9154120	NC_021167.1	Ca_kabuli_chr08	9154120	GG	AA	1946907209

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_106682_9154272	NC_021167.1	Ca_kabuli_chr08	9154272	AA	CC	1946907215
SNP_P4_106683_9154332	NC_021167.1	Ca_kabuli_chr08	9154332	AA	TT	1946907217
SNP_P4_106685_9154729	NC_021167.1	Ca_kabuli_chr08	9154729	CC	TT	1946907219
SNP_P4_106686_9155013	NC_021167.1	Ca_kabuli_chr08	9155013	TT	AA	1946907221
SNP_P4_106687_9155030	NC_021167.1	Ca_kabuli_chr08	9155030	AA	GG	1946907223
SNP_P4_106688_9155054	NC_021167.1	Ca_kabuli_chr08	9155054	AA	GG	1946907225
SNP_P4_106689_9155099	NC_021167.1	Ca_kabuli_chr08	9155099	TT	GG	1946907227
SNP_P4_106690_9155306	NC_021167.1	Ca_kabuli_chr08	9155306	GG	CC	1946907229
SNP_P4_106692_9155668	NC_021167.1	Ca_kabuli_chr08	9155668	AA	CC	1946907231
SNP_P4_106693_9155987	NC_021167.1	Ca_kabuli_chr08	9155987	AA	TT	1946907233
SNP_P4_106694_9156025	NC_021167.1	Ca_kabuli_chr08	9156025	TT	CC	1946907235
SNP_P4_106695_9156036	NC_021167.1	Ca_kabuli_chr08	9156036	GG	TT	1946907237
SNP_P4_106696_9156042	NC_021167.1	Ca_kabuli_chr08	9156042	AA	GG	1946907239
SNP_P4_106697_9156048	NC_021167.1	Ca_kabuli_chr08	9156048	CC	GG	1946907241
SNP_P4_106699_9157995	NC_021167.1	Ca_kabuli_chr08	9157995	CC	GG	1946907243
SNP_P4_106701_9168801	NC_021167.1	Ca_kabuli_chr08	9168801	CC	GG	1946907245
SNP_P4_106702_9168876	NC_021167.1	Ca_kabuli_chr08	9168876	CC	AA	1946907247
SNP_P4_106703_9169062	NC_021167.1	Ca_kabuli_chr08	9169062	GG	AA	1946907249
SNP_P4_106704_9169317	NC_021167.1	Ca_kabuli_chr08	9169317	AA	TT	1946907251
SNP_P4_106706_9170076	NC_021167.1	Ca_kabuli_chr08	9170076	TT	CC	1946907253
SNP_P4_106707_9173785	NC_021167.1	Ca_kabuli_chr08	9173785	CC	TT	1946907255
SNP_P4_106708_9173788	NC_021167.1	Ca_kabuli_chr08	9173788	CC	TT	1946907257
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SNP_P4_106710_9174049	NC_021167.1	Ca_kabuli_chr08	9174049	CC	TT	1946907261
SNP_P4_106711_9174923	NC_021167.1	Ca_kabuli_chr08	9174923	TT	AA	1946907262
SNP_P4_106713_9183098	NC_021167.1	Ca_kabuli_chr08	9183098	GG	AA	1946907263
SNP_P4_106714_9183372	NC_021167.1	Ca_kabuli_chr08	9183372	GG	AA	1946907264
SNP_P4_106715_9183375	NC_021167.1	Ca_kabuli_chr08	9183375	CC	TT	1946907265
SNP_P4_106716_9183437	NC_021167.1	Ca_kabuli_chr08	9183437	TT	CC	1946907267
SNP_P4_106718_9184488	NC_021167.1	Ca_kabuli_chr08	9184488	TT	CC	1946907269
SNP_P4_106719_9184885	NC_021167.1	Ca_kabuli_chr08	9184885	TT	AA	1946907271
SNP_P4_106721_9185071	NC_021167.1	Ca_kabuli_chr08	9185071	GG	AA	1946907273
SNP_P4_106722_9185195	NC_021167.1	Ca_kabuli_chr08	9185195	GG	TT	1946907275
SNP_P4_106723_9185211	NC_021167.1	Ca_kabuli_chr08	9185211	TT	AA	1946907277
SNP_P4_106724_9185251	NC_021167.1	Ca_kabuli_chr08	9185251	AA	TT	1946907279
SNP_P4_106725_9185578	NC_021167.1	Ca_kabuli_chr08	9185578	AA	TT	1946907281
SNP_P4_106726_9186763	NC_021167.1	Ca_kabuli_chr08	9186763	CC	TT	1946907283
SNP_P4_106727_9195345	NC_021167.1	Ca_kabuli_chr08	9195345	CC	GG	1946907285
SNP_P4_106728_9195353	NC_021167.1	Ca_kabuli_chr08	9195353	AA	GG	1946907287
SNP_P4_106729_9195801	NC_021167.1	Ca_kabuli_chr08	9195801	TT	AA	1946907289

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_106732_9198381	NC_021167.1	Ca_kabuli_chr08	9198381	GG	AA	1946907295
SNP_P4_106733_9198407	NC_021167.1	Ca_kabuli_chr08	9198407	AA	CC	1946907297
SNP_P4_106734_9198425	NC_021167.1	Ca_kabuli_chr08	9198425	AA	TT	1946907300
SNP_P4_106735_9198485	NC_021167.1	Ca_kabuli_chr08	9198485	CC	TT	1946907302
SNP_P4_106736_9198576	NC_021167.1	Ca_kabuli_chr08	9198576	AA	GG	1946907304
SNP_P4_106737_9198577	NC_021167.1	Ca_kabuli_chr08	9198577	CC	TT	1946907306
SNP_P4_106738_9198811	NC_021167.1	Ca_kabuli_chr08	9198811	AA	GG	1946907308
SNP_P4_106739_9198825	NC_021167.1	Ca_kabuli_chr08	9198825	TT	CC	1946907310
SNP_P4_106740_9198939	NC_021167.1	Ca_kabuli_chr08	9198939	AA	GG	1946907312
SNP_P4_106741_9198987	NC_021167.1	Ca_kabuli_chr08	9198987	TT	AA	1946907314
SNP_P4_106743_9199392	NC_021167.1	Ca_kabuli_chr08	9199392	AA	TT	1946907316
SNP_P4_106746_9201667	NC_021167.1	Ca_kabuli_chr08	9201667	AA	TT	1946907319
SNP_P4_106748_9201746	NC_021167.1	Ca_kabuli_chr08	9201746	AA	CC	1946907321
SNP_P4_106749_9201890	NC_021167.1	Ca_kabuli_chr08	9201890	TT	AA	1946907323
SNP_P4_106750_9202913	NC_021167.1	Ca_kabuli_chr08	9202913	GG	AA	1946907325
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SNP_P4_106752_9202970	NC_021167.1	Ca_kabuli_chr08	9202970	GG	AA	1946907329
SNP_P4_106753_9202983	NC_021167.1	Ca_kabuli_chr08	9202983	TT	CC	1946907331
SNP_P4_106754_9206153	NC_021167.1	Ca_kabuli_chr08	9206153	CC	GG	1946907333
SNP_P4_106756_9206847	NC_021167.1	Ca_kabuli_chr08	9206847	CC	AA	1946907335
SNP_P4_106757_9206883	NC_021167.1	Ca_kabuli_chr08	9206883	GG	TT	1946907337
SNP_P4_106758_9206886	NC_021167.1	Ca_kabuli_chr08	9206886	CC	TT	1946907339
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SNP_P4_106760_9207378	NC_021167.1	Ca_kabuli_chr08	9207378	AA	GG	1946907343
SNP_P4_106761_9207379	NC_021167.1	Ca_kabuli_chr08	9207379	GG	AA	1946907345
SNP_P4_106762_9207420	NC_021167.1	Ca_kabuli_chr08	9207420	GG	AA	1946907347
SNP_P4_106763_9207424	NC_021167.1	Ca_kabuli_chr08	9207424	TT	CC	1946907349
SNP_P4_106764_9207467	NC_021167.1	Ca_kabuli_chr08	9207467	TT	CC	1946907351
SNP_P4_106765_9207748	NC_021167.1	Ca_kabuli_chr08	9207748	AA	TT	1946907354
SNP_P4_106766_9207763	NC_021167.1	Ca_kabuli_chr08	9207763	GG	TT	1946907356
SNP_P4_106769_9207867	NC_021167.1	Ca_kabuli_chr08	9207867	AA	TT	1946907358
SNP_P4_106771_9208014	NC_021167.1	Ca_kabuli_chr08	9208014	TT	AA	1946907360
SNP_P4_106772_9208099	NC_021167.1	Ca_kabuli_chr08	9208099	GG	TT	1946907362
SNP_P4_106773_9208132	NC_021167.1	Ca_kabuli_chr08	9208132	CC	TT	1946907364
SNP_P4_106774_9208350	NC_021167.1	Ca_kabuli_chr08	9208350	GG	AA	1946907366
SNP_P4_106775_9208380	NC_021167.1	Ca_kabuli_chr08	9208380	AA	GG	1946907367
SNP_P4_106776_9208390	NC_021167.1	Ca_kabuli_chr08	9208390	TT	CC	1946907369
SNP_P4_106778_9210830	NC_021167.1	Ca_kabuli_chr08	9210830	GG	TT	1946907371
SNP_P4_106779_9210841	NC_021167.1	Ca_kabuli_chr08	9210841	TT	CC	1946907373
SNP_P4_106780_9210850	NC_021167.1	Ca_kabuli_chr08	9210850	AA	GG	1946907375

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_106783_9214466	NC_021167.1	Ca_kabuli_chr08	9214466	CC	AA	1946907381
SNP_P4_106784_9214482	NC_021167.1	Ca_kabuli_chr08	9214482	CC	TT	1946907383
SNP_P4_106785_9214747	NC_021167.1	Ca_kabuli_chr08	9214747	GG	AA	1946907386
SNP_P4_106786_9214841	NC_021167.1	Ca_kabuli_chr08	9214841	GG	TT	1946907388
SNP_P4_106787_9214946	NC_021167.1	Ca_kabuli_chr08	9214946	TT	CC	1946907390
SNP_P4_106788_9214950	NC_021167.1	Ca_kabuli_chr08	9214950	TT	AA	1946907392
SNP_P4_106789_9214989	NC_021167.1	Ca_kabuli_chr08	9214989	GG	AA	1946907394
SNP_P4_106790_9215024	NC_021167.1	Ca_kabuli_chr08	9215024	CC	TT	1946907396
SNP_P4_106792_9215119	NC_021167.1	Ca_kabuli_chr08	9215119	AA	GG	1946907398
SNP_P4_106793_9215157	NC_021167.1	Ca_kabuli_chr08	9215157	AA	GG	1946907400
SNP_P4_106795_9215302	NC_021167.1	Ca_kabuli_chr08	9215302	TT	CC	1946907402
SNP_P4_106796_9215303	NC_021167.1	Ca_kabuli_chr08	9215303	TT	CC	1946907404
SNP_P4_106797_9215316	NC_021167.1	Ca_kabuli_chr08	9215316	GG	TT	1946907406
SNP_P4_106798_9216192	NC_021167.1	Ca_kabuli_chr08	9216192	GG	AA	1946907408
SNP_P4_106799_9216202	NC_021167.1	Ca_kabuli_chr08	9216202	AA	TT	1946907410
SNP_P4_106801_9216789	NC_021167.1	Ca_kabuli_chr08	9216789	TT	GG	1946907412
SNP_P4_106802_9216809	NC_021167.1	Ca_kabuli_chr08	9216809	CC	TT	1946907414
SNP_P4_106803_9216833	NC_021167.1	Ca_kabuli_chr08	9216833	CC	TT	1946907416
SNP_P4_106804_9216851	NC_021167.1	Ca_kabuli_chr08	9216851	CC	AA	1946907418
SNP_P4_106806_9217083	NC_021167.1	Ca_kabuli_chr08	9217083	AA	CC	1946907420
SNP_P4_106807_9217399	NC_021167.1	Ca_kabuli_chr08	9217399	GG	AA	1946907422
SNP_P4_106808_9217689	NC_021167.1	Ca_kabuli_chr08	9217689	CC	GG	1946907425
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SNP_P4_106811_9218053	NC_021167.1	Ca_kabuli_chr08	9218053	AA	TT	1946907429
SNP_P4_106812_9218054	NC_021167.1	Ca_kabuli_chr08	9218054	CC	TT	1946907431
SNP_P4_106813_9218181	NC_021167.1	Ca_kabuli_chr08	9218181	AA	TT	1946907433
SNP_P4_106814_9218208	NC_021167.1	Ca_kabuli_chr08	9218208	AA	CC	1946907435
SNP_P4_106815_9218209	NC_021167.1	Ca_kabuli_chr08	9218209	GG	TT	1946907437
SNP_P4_106816_9218210	NC_021167.1	Ca_kabuli_chr08	9218210	TT	CC	1946907439
SNP_P4_106817_9219881	NC_021167.1	Ca_kabuli_chr08	9219881	GG	AA	1946907441
SNP_P4_106818_9219883	NC_021167.1	Ca_kabuli_chr08	9219883	AA	TT	1946907443
SNP_P4_106819_9219884	NC_021167.1	Ca_kabuli_chr08	9219884	TT	CC	1946907445
SNP_P4_106820_9220054	NC_021167.1	Ca_kabuli_chr08	9220054	CC	AA	1946907447
SNP_P4_106822_9220074	NC_021167.1	Ca_kabuli_chr08	9220074	TT	AA	1946907449
SNP_P4_106823_9220152	NC_021167.1	Ca_kabuli_chr08	9220152	GG	TT	1946907450
SNP_P4_106826_9225308	NC_021167.1	Ca_kabuli_chr08	9225308	TT	CC	1946907452
SNP_P4_106827_9229987	NC_021167.1	Ca_kabuli_chr08	9229987	TT	CC	1946907454
SNP_P4_106828_9233313	NC_021167.1	Ca_kabuli_chr08	9233313	GG	TT	1946907456
SNP_P4_106829_9233340	NC_021167.1	Ca_kabuli_chr08	9233340	AA	CC	1946907458
SNP_P4_106830_9233515	NC_021167.1	Ca_kabuli_chr08	9233515	AA	TT	1946907460

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_106832_9251423	NC_021167.1	Ca_kabuli_chr08	9251423	AA	GG	1946907464
SNP_P4_106834_9268550	NC_021167.1	Ca_kabuli_chr08	9268550	CC	AA	1946907467
SNP_P4_106835_9268561	NC_021167.1	Ca_kabuli_chr08	9268561	TT	CC	1946907469
SNP_P4_106836_9268573	NC_021167.1	Ca_kabuli_chr08	9268573	GG	TT	1946907471
SNP_P4_106837_9273778	NC_021167.1	Ca_kabuli_chr08	9273778	AA	CC	1946907473
SNP_P4_106839_9274098	NC_021167.1	Ca_kabuli_chr08	9274098	CC	TT	1946907475
SNP_P4_106840_9274139	NC_021167.1	Ca_kabuli_chr08	9274139	TT	CC	1946907477
SNP_P4_106841_9274183	NC_021167.1	Ca_kabuli_chr08	9274183	TT	CC	1946907479
SNP_P4_106842_9274396	NC_021167.1	Ca_kabuli_chr08	9274396	TT	CC	1946907481
SNP_P4_106843_9274398	NC_021167.1	Ca_kabuli_chr08	9274398	CC	TT	1946907483
SNP_P4_106844_9274399	NC_021167.1	Ca_kabuli_chr08	9274399	TT	AA	1946907485
SNP_P4_106845_9274401	NC_021167.1	Ca_kabuli_chr08	9274401	CC	GG	1946907487
SNP_P4_106846_9274402	NC_021167.1	Ca_kabuli_chr08	9274402	AA	TT	1946907489
SNP_P4_106847_9274404	NC_021167.1	Ca_kabuli_chr08	9274404	CC	TT	1946907491
SNP_P4_106848_9300431	NC_021167.1	Ca_kabuli_chr08	9300431	CC	TT	1946907494
SNP_P4_106850_9323544	NC_021167.1	Ca_kabuli_chr08	9323544	AA	GG	1946907496
SNP_P4_106851_9323547	NC_021167.1	Ca_kabuli_chr08	9323547	AA	TT	1946907498
SNP_P4_106853_9323905	NC_021167.1	Ca_kabuli_chr08	9323905	TT	AA	1946907500
SNP_P4_106854_9324097	NC_021167.1	Ca_kabuli_chr08	9324097	TT	CC	1946907502
SNP_P4_106855_9324099	NC_021167.1	Ca_kabuli_chr08	9324099	CC	AA	1946907504
SNP_P4_106856_9324274	NC_021167.1	Ca_kabuli_chr08	9324274	AA	GG	1946907506
SNP_P4_106857_9327262	NC_021167.1	Ca_kabuli_chr08	9327262	GG	AA	1946907508
SNP_P4_106858_9335191	NC_021167.1	Ca_kabuli_chr08	9335191	CC	TT	1946907510
SNP_P4_106859_9337197	NC_021167.1	Ca_kabuli_chr08	9337197	CC	TT	1946907512
SNP_P4_106860_9338204	NC_021167.1	Ca_kabuli_chr08	9338204	AA	GG	1946907514
SNP_P4_106861_9339805	NC_021167.1	Ca_kabuli_chr08	9339805	TT	CC	1946907516
SNP_P4_106862_9354904	NC_021167.1	Ca_kabuli_chr08	9354904	GG	AA	1946907518
SNP_P4_106863_9357284	NC_021167.1	Ca_kabuli_chr08	9357284	CC	TT	1946907520
SNP_P4_106864_9358052	NC_021167.1	Ca_kabuli_chr08	9358052	GG	AA	1946907523
SNP_P4_106865_9359179	NC_021167.1	Ca_kabuli_chr08	9359179	GG	AA	1946907525
SNP_P4_106866_9359181	NC_021167.1	Ca_kabuli_chr08	9359181	CC	TT	1946907527
SNP_P4_106867_9359357	NC_021167.1	Ca_kabuli_chr08	9359357	GG	TT	1946907529
SNP_P4_106868_9359375	NC_021167.1	Ca_kabuli_chr08	9359375	CC	GG	1946907531
SNP_P4_106869_9362800	NC_021167.1	Ca_kabuli_chr08	9362800	AA	GG	1946907533
SNP_P4_106870_9363030	NC_021167.1	Ca_kabuli_chr08	9363030	TT	AA	1946907535
SNP_P4_106871_9363104	NC_021167.1	Ca_kabuli_chr08	9363104	GG	TT	1946907537
SNP_P4_106872_9363258	NC_021167.1	Ca_kabuli_chr08	9363258	GG	AA	1946907539
SNP_P4_106873_9363271	NC_021167.1	Ca_kabuli_chr08	9363271	CC	TT	1946907541
SNP_P4_106874_9363344	NC_021167.1	Ca_kabuli_chr08	9363344	CC	TT	1946907543
SNP_P4_106875_9363350	NC_021167.1	Ca_kabuli_chr08	9363350	CC	AA	1946907545
SNP_P4_106876_9363393	NC_021167.1	Ca_kabuli_chr08	9363393	AA	TT	1946907547

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_106879_9364063	NC_021167.1	Ca_kabuli_chr08	9364063	GG	TT	1946907553
SNP_P4_106880_9364107	NC_021167.1	Ca_kabuli_chr08	9364107	AA	GG	1946907555
SNP_P4_106881_9364218	NC_021167.1	Ca_kabuli_chr08	9364218	GG	AA	1946907557
SNP_P4_106882_9364294	NC_021167.1	Ca_kabuli_chr08	9364294	AA	CC	1946907559
SNP_P4_106883_9364467	NC_021167.1	Ca_kabuli_chr08	9364467	TT	GG	1946907561
SNP_P4_106884_9364512	NC_021167.1	Ca_kabuli_chr08	9364512	AA	CC	1946907563
SNP_P4_106886_9364587	NC_021167.1	Ca_kabuli_chr08	9364587	TT	CC	1946907565
SNP_P4_106887_9364596	NC_021167.1	Ca_kabuli_chr08	9364596	AA	GG	1946907567
SNP_P4_106888_9364597	NC_021167.1	Ca_kabuli_chr08	9364597	TT	AA	1946907569
SNP_P4_106889_9364620	NC_021167.1	Ca_kabuli_chr08	9364620	TT	GG	1946907571
SNP_P4_106890_9364856	NC_021167.1	Ca_kabuli_chr08	9364856	CC	GG	1946907573
SNP_P4_106891_9366718	NC_021167.1	Ca_kabuli_chr08	9366718	CC	GG	1946907575
SNP_P4_106892_9366740	NC_021167.1	Ca_kabuli_chr08	9366740	GG	AA	1946907577
SNP_P4_106893_9366845	NC_021167.1	Ca_kabuli_chr08	9366845	TT	AA	1946907579
SNP_P4_106894_9367017	NC_021167.1	Ca_kabuli_chr08	9367017	TT	AA	1946907581
SNP_P4_106895_9367318	NC_021167.1	Ca_kabuli_chr08	9367318	TT	AA	1946907583
SNP_P4_106896_9368337	NC_021167.1	Ca_kabuli_chr08	9368337	CC	TT	1946907585
SNP_P4_106897_9368968	NC_021167.1	Ca_kabuli_chr08	9368968	CC	TT	1946907587
SNP_P4_106898_9370105	NC_021167.1	Ca_kabuli_chr08	9370105	AA	GG	1946907589
SNP_P4_106899_9373441	NC_021167.1	Ca_kabuli_chr08	9373441	TT	CC	1946907591
SNP_P4_106900_9375505	NC_021167.1	Ca_kabuli_chr08	9375505	AA	TT	1946907593
SNP_P4_106901_9375640	NC_021167.1	Ca_kabuli_chr08	9375640	AA	CC	1946907595
SNP_P4_106902_9375650	NC_021167.1	Ca_kabuli_chr08	9375650	GG	AA	1946907597
SNP_P4_106904_9377669	NC_021167.1	Ca_kabuli_chr08	9377669	GG	TT	1946907600
SNP_P4_106905_9377927	NC_021167.1	Ca_kabuli_chr08	9377927	GG	AA	1946907602
SNP_P4_106906_9379046	NC_021167.1	Ca_kabuli_chr08	9379046	TT	CC	1946907604
SNP_P4_106907_9379077	NC_021167.1	Ca_kabuli_chr08	9379077	TT	CC	1946907606
SNP_P4_106908_9379080	NC_021167.1	Ca_kabuli_chr08	9379080	GG	AA	1946907608
SNP_P4_106909_9379085	NC_021167.1	Ca_kabuli_chr08	9379085	AA	GG	1946907610
SNP_P4_106910_9379427	NC_021167.1	Ca_kabuli_chr08	9379427	GG	AA	1946907612
SNP_P4_106911_9379467	NC_021167.1	Ca_kabuli_chr08	9379467	AA	GG	1946907614
SNP_P4_106912_9379468	NC_021167.1	Ca_kabuli_chr08	9379468	GG	AA	1946907616
SNP_P4_106913_9379478	NC_021167.1	Ca_kabuli_chr08	9379478	TT	CC	1946907618
SNP_P4_106914_9379887	NC_021167.1	Ca_kabuli_chr08	9379887	CC	TT	1946907620
SNP_P4_106916_9387303	NC_021167.1	Ca_kabuli_chr08	9387303	CC	TT	1946907622
SNP_P4_106918_9389902	NC_021167.1	Ca_kabuli_chr08	9389902	GG	AA	1946907624
SNP_P4_106919_9389924	NC_021167.1	Ca_kabuli_chr08	9389924	TT	GG	1946907626
SNP_P4_106920_9391044	NC_021167.1	Ca_kabuli_chr08	9391044	CC	GG	1946907628
SNP_P4_106921_9391183	NC_021167.1	Ca_kabuli_chr08	9391183	AA	CC	1946907630
SNP_P4_106922_9391215	NC_021167.1	Ca_kabuli_chr08	9391215	TT	CC	1946907632

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_106924_9393213	NC_021167.1	Ca_kabuli_chr08	9393213	AA	CC	1946907636
SNP_P4_106925_9393667	NC_021167.1	Ca_kabuli_chr08	9393667	GG	TT	1946907638
SNP_P4_106926_9393671	NC_021167.1	Ca_kabuli_chr08	9393671	GG	CC	1946907640
SNP_P4_106927_9394557	NC_021167.1	Ca_kabuli_chr08	9394557	TT	CC	1946907642
SNP_P4_106928_9394932	NC_021167.1	Ca_kabuli_chr08	9394932	TT	AA	1946907644
SNP_P4_106929_9396264	NC_021167.1	Ca_kabuli_chr08	9396264	CC	GG	1946907646
SNP_P4_106930_9397189	NC_021167.1	Ca_kabuli_chr08	9397189	CC	TT	1946907648
SNP_P4_106931_9397306	NC_021167.1	Ca_kabuli_chr08	9397306	GG	AA	1946907651
SNP_P4_106932_9397773	NC_021167.1	Ca_kabuli_chr08	9397773	CC	GG	1946907653
SNP_P4_106934_9398564	NC_021167.1	Ca_kabuli_chr08	9398564	AA	CC	1946907655
SNP_P4_106935_9402075	NC_021167.1	Ca_kabuli_chr08	9402075	CC	GG	1946907657
SNP_P4_106936_9405269	NC_021167.1	Ca_kabuli_chr08	9405269	TT	GG	1946907659
SNP_P4_106937_9416525	NC_021167.1	Ca_kabuli_chr08	9416525	AA	GG	1946907661
SNP_P4_106938_9416622	NC_021167.1	Ca_kabuli_chr08	9416622	AA	CC	1946907663
SNP_P4_106939_9950362	NC_021167.1	Ca_kabuli_chr08	9950362	AA	GG	1946907665
SNP_P4_106941_9950730	NC_021167.1	Ca_kabuli_chr08	9950730	AA	GG	1946907667
SNP_P4_106942_9950744	NC_021167.1	Ca_kabuli_chr08	9950744	GG	AA	1946907669
SNP_P4_106943_9950803	NC_021167.1	Ca_kabuli_chr08	9950803	CC	TT	1946907671
SNP_P4_106944_9950828	NC_021167.1	Ca_kabuli_chr08	9950828	TT	AA	1946907673
SNP_P4_106946_9950954	NC_021167.1	Ca_kabuli_chr08	9950954	TT	CC	1946907675
SNP_P4_106947_9951643	NC_021167.1	Ca_kabuli_chr08	9951643	GG	AA	1946907677
SNP_P4_106948_9951664	NC_021167.1	Ca_kabuli_chr08	9951664	GG	TT	1946907679
SNP_P4_106951_9956613	NC_021167.1	Ca_kabuli_chr08	9956613	CC	TT	1946907681
SNP_P4_106952_9957133	NC_021167.1	Ca_kabuli_chr08	9957133	CC	AA	1946907684
SNP_P4_106953_9957165	NC_021167.1	Ca_kabuli_chr08	9957165	CC	TT	1946907686
SNP_P4_106954_9957573	NC_021167.1	Ca_kabuli_chr08	9957573	GG	TT	1946907688
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SNP_P4_106956_9957675	NC_021167.1	Ca_kabuli_chr08	9957675	CC	TT	1946907692
SNP_P4_106957_9957717	NC_021167.1	Ca_kabuli_chr08	9957717	GG	AA	1946907694
SNP_P4_106958_9958331	NC_021167.1	Ca_kabuli_chr08	9958331	AA	GG	1946907696
SNP_P4_106959_9958631	NC_021167.1	Ca_kabuli_chr08	9958631	AA	CC	1946907698
SNP_P4_106960_9958636	NC_021167.1	Ca_kabuli_chr08	9958636	GG	TT	1946907700
SNP_P4_106961_9958859	NC_021167.1	Ca_kabuli_chr08	9958859	GG	AA	1946907702
SNP_P4_106962_9958888	NC_021167.1	Ca_kabuli_chr08	9958888	TT	AA	1946907704
SNP_P4_106963_9959002	NC_021167.1	Ca_kabuli_chr08	9959002	CC	TT	1946907706
SNP_P4_106964_9959035	NC_021167.1	Ca_kabuli_chr08	9959035	AA	CC	1946907708
SNP_P4_106965_9959121	NC_021167.1	Ca_kabuli_chr08	9959121	TT	GG	1946907710
SNP_P4_106966_9959695	NC_021167.1	Ca_kabuli_chr08	9959695	AA	TT	1946907712
SNP_P4_106967_9959696	NC_021167.1	Ca_kabuli_chr08	9959696	CC	TT	1946907714
SNP_P4_106968_9959809	NC_021167.1	Ca_kabuli_chr08	9959809	CC	TT	1946907716
SNP_P4_106969_9959943	NC_021167.1	Ca_kabuli_chr08	9959943	GG	AA	1946907718

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_106971_9959951	NC_021167.1	Ca_kabuli_chr08	9959951	TT	CC	1946907722
SNP_P4_106973_9960326	NC_021167.1	Ca_kabuli_chr08	9960326	GG	AA	1946907724
SNP_P4_106974_9960472	NC_021167.1	Ca_kabuli_chr08	9960472	CC	TT	1946907726
SNP_P4_106975_9960475	NC_021167.1	Ca_kabuli_chr08	9960475	TT	GG	1946907728
SNP_P4_106976_9964459	NC_021167.1	Ca_kabuli_chr08	9964459	GG	AA	1946907730
SNP_P4_106977_9964590	NC_021167.1	Ca_kabuli_chr08	9964590	AA	GG	1946907732
SNP_P4_106978_9969160	NC_021167.1	Ca_kabuli_chr08	9969160	AA	TT	1946907734
SNP_P4_106979_9969170	NC_021167.1	Ca_kabuli_chr08	9969170	CC	GG	1946907736
SNP_P4_106980_9969421	NC_021167.1	Ca_kabuli_chr08	9969421	GG	AA	1946907738
SNP_P4_106981_9969423	NC_021167.1	Ca_kabuli_chr08	9969423	CC	AA	1946907740
SNP_P4_106982_9969426	NC_021167.1	Ca_kabuli_chr08	9969426	GG	AA	1946907742
SNP_P4_106983_9969431	NC_021167.1	Ca_kabuli_chr08	9969431	TT	CC	1946907744
SNP_P4_106984_9969432	NC_021167.1	Ca_kabuli_chr08	9969432	AA	GG	1946907746
SNP_P4_106985_9969469	NC_021167.1	Ca_kabuli_chr08	9969469	AA	GG	1946907749
SNP_P4_106986_9969730	NC_021167.1	Ca_kabuli_chr08	9969730	AA	TT	1946907751
SNP_P4_106987_9972126	NC_021167.1	Ca_kabuli_chr08	9972126	TT	AA	1946907753
SNP_P4_106988_9974315	NC_021167.1	Ca_kabuli_chr08	9974315	CC	TT	1946907755
SNP_P4_106989_9974323	NC_021167.1	Ca_kabuli_chr08	9974323	AA	CC	1946907757
SNP_P4_106990_9974325	NC_021167.1	Ca_kabuli_chr08	9974325	AA	CC	1946907759
SNP_P4_106991_9974326	NC_021167.1	Ca_kabuli_chr08	9974326	GG	AA	1946907761
SNP_P4_106992_9974417	NC_021167.1	Ca_kabuli_chr08	9974417	AA	TT	1946907763
SNP_P4_106993_9974461	NC_021167.1	Ca_kabuli_chr08	9974461	CC	TT	1946907766
SNP_P4_106994_9974601	NC_021167.1	Ca_kabuli_chr08	9974601	CC	TT	1946907768
SNP_P4_106995_9974624	NC_021167.1	Ca_kabuli_chr08	9974624	TT	CC	1946907770
SNP_P4_106996_9974670	NC_021167.1	Ca_kabuli_chr08	9974670	GG	AA	1946907772
SNP_P4_106997_9974672	NC_021167.1	Ca_kabuli_chr08	9974672	CC	AA	1946907774
SNP_P4_106998_9974681	NC_021167.1	Ca_kabuli_chr08	9974681	AA	GG	1946907776
SNP_P4_106999_9974718	NC_021167.1	Ca_kabuli_chr08	9974718	AA	GG	1946907778
SNP_P4_107000_9974764	NC_021167.1	Ca_kabuli_chr08	9974764	GG	TT	1946907780
SNP_P4_107001_9974766	NC_021167.1	Ca_kabuli_chr08	9974766	GG	AA	1946907782
SNP_P4_107002_9974772	NC_021167.1	Ca_kabuli_chr08	9974772	AA	CC	1946907784
SNP_P4_107003_9998104	NC_021167.1	Ca_kabuli_chr08	9998104	AA	GG	1946907786
SNP_P4_107004_10023295	NC_021167.1	Ca_kabuli_chr08	10023295	AA	GG	1946907788
SNP_P4_107005_10023302	NC_021167.1	Ca_kabuli_chr08	10023302	TT	CC	1946907791
SNP_P4_107006_10023305	NC_021167.1	Ca_kabuli_chr08	10023305	AA	CC	1946907793
SNP_P4_107007_10050263	NC_021167.1	Ca_kabuli_chr08	10050263	AA	CC	1946907795
SNP_P4_107008_10050264	NC_021167.1	Ca_kabuli_chr08	10050264	AA	GG	1946907797
SNP_P4_107010_10064458	NC_021167.1	Ca_kabuli_chr08	10064458	AA	GG	1946907800
SNP_P4_107011_10064569	NC_021167.1	Ca_kabuli_chr08	10064569	AA	CC	1946907802
SNP_P4_107012_10064578	NC_021167.1	Ca_kabuli_chr08	10064578	TT	GG	1946907805
SNP_P4_107013_10064679	NC_021167.1	Ca_kabuli_chr08	10064679	TT	CC	1946907807

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_107015_10064878	NC_021167.1	Ca_kabuli_chr08	10064878	AA	GG	1946907811
SNP_P4_107016_10064941	NC_021167.1	Ca_kabuli_chr08	10064941	AA	TT	1946907813
SNP_P4_107017_10064987	NC_021167.1	Ca_kabuli_chr08	10064987	GG	AA	1946907815
SNP_P4_107019_10096658	NC_021167.1	Ca_kabuli_chr08	10096658	TT	CC	1946907817
SNP_P4_107020_10107569	NC_021167.1	Ca_kabuli_chr08	10107569	AA	GG	1946907820
SNP_P4_107022_10170002	NC_021167.1	Ca_kabuli_chr08	10170002	TT	CC	1946907822
SNP_P4_107023_10217355	NC_021167.1	Ca_kabuli_chr08	10217355	AA	CC	1946907824
SNP_P4_107024_10217358	NC_021167.1	Ca_kabuli_chr08	10217358	AA	GG	1946907826
SNP_P4_107025_10217407	NC_021167.1	Ca_kabuli_chr08	10217407	GG	AA	1946907828
SNP_P4_107026_10217410	NC_021167.1	Ca_kabuli_chr08	10217410	CC	TT	1946907830
SNP_P4_107027_10217426	NC_021167.1	Ca_kabuli_chr08	10217426	AA	GG	1946907832
SNP_P4_107028_10217573	NC_021167.1	Ca_kabuli_chr08	10217573	AA	GG	1946907834
SNP_P4_107029_10234129	NC_021167.1	Ca_kabuli_chr08	10234129	TT	CC	1946907836
SNP_P4_107030_10253032	NC_021167.1	Ca_kabuli_chr08	10253032	AA	TT	1946907838
SNP_P4_107032_10356101	NC_021167.1	Ca_kabuli_chr08	10356101	TT	CC	1946907840
SNP_P4_107033_10356134	NC_021167.1	Ca_kabuli_chr08	10356134	AA	CC	1946907842
SNP_P4_107034_10356170	NC_021167.1	Ca_kabuli_chr08	10356170	AA	GG	1946907844
SNP_P4_107035_10356614	NC_021167.1	Ca_kabuli_chr08	10356614	CC	AA	1946907846
SNP_P4_107036_10356902	NC_021167.1	Ca_kabuli_chr08	10356902	GG	AA	1946907848
SNP_P4_107037_10357254	NC_021167.1	Ca_kabuli_chr08	10357254	AA	CC	1946907850
SNP_P4_107038_10357277	NC_021167.1	Ca_kabuli_chr08	10357277	GG	AA	1946907852
SNP_P4_107039_10357298	NC_021167.1	Ca_kabuli_chr08	10357298	GG	AA	1946907854
SNP_P4_107040_10362494	NC_021167.1	Ca_kabuli_chr08	10362494	CC	AA	1946907856
SNP_P4_107041_10363066	NC_021167.1	Ca_kabuli_chr08	10363066	GG	AA	1946907858
SNP_P4_107042_10363244	NC_021167.1	Ca_kabuli_chr08	10363244	AA	CC	1946907860
SNP_P4_107043_10363410	NC_021167.1	Ca_kabuli_chr08	10363410	GG	AA	1946907862
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SNP_P4_107045_10363984	NC_021167.1	Ca_kabuli_chr08	10363984	AA	GG	1946907866
SNP_P4_107046_10364024	NC_021167.1	Ca_kabuli_chr08	10364024	TT	AA	1946907868
SNP_P4_107048_10364269	NC_021167.1	Ca_kabuli_chr08	10364269	TT	GG	1946907870
SNP_P4_107049_10364276	NC_021167.1	Ca_kabuli_chr08	10364276	TT	CC	1946907872
SNP_P4_107050_10364556	NC_021167.1	Ca_kabuli_chr08	10364556	CC	TT	1946907874
SNP_P4_107051_10365789	NC_021167.1	Ca_kabuli_chr08	10365789	GG	AA	1946907876
SNP_P4_107052_10365889	NC_021167.1	Ca_kabuli_chr08	10365889	TT	AA	1946907878
SNP_P4_107053_10365922	NC_021167.1	Ca_kabuli_chr08	10365922	GG	CC	1946907880
SNP_P4_107054_10366034	NC_021167.1	Ca_kabuli_chr08	10366034	CC	AA	1946907882
SNP_P4_107055_10366090	NC_021167.1	Ca_kabuli_chr08	10366090	CC	TT	1946907884
SNP_P4_107056_10366093	NC_021167.1	Ca_kabuli_chr08	10366093	GG	AA	1946907886
SNP_P4_107057_10366334	NC_021167.1	Ca_kabuli_chr08	10366334	AA	GG	1946907888
SNP_P4_107058_10366385	NC_021167.1	Ca_kabuli_chr08	10366385	AA	TT	1946907890
SNP_P4_107059_10366387	NC_021167.1	Ca_kabuli_chr08	10366387	CC	TT	1946907892

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_107063_10366874	NC_021167.1	Ca_kabuli_chr08	10366874	TT	CC	1946907896
SNP_P4_107064_10366880	NC_021167.1	Ca_kabuli_chr08	10366880	TT	CC	1946907898
SNP_P4_107065_10366912	NC_021167.1	Ca_kabuli_chr08	10366912	CC	AA	1946907900
SNP_P4_107066_10366921	NC_021167.1	Ca_kabuli_chr08	10366921	CC	TT	1946907902
SNP_P4_107067_10366974	NC_021167.1	Ca_kabuli_chr08	10366974	AA	GG	1946907904
SNP_P4_107068_10366984	NC_021167.1	Ca_kabuli_chr08	10366984	AA	GG	1946907906
SNP_P4_107069_10367254	NC_021167.1	Ca_kabuli_chr08	10367254	TT	CC	1946907908
SNP_P4_107070_10367281	NC_021167.1	Ca_kabuli_chr08	10367281	TT	CC	1946907910
SNP_P4_107071_10367387	NC_021167.1	Ca_kabuli_chr08	10367387	GG	TT	1946907912
SNP_P4_107072_10367461	NC_021167.1	Ca_kabuli_chr08	10367461	TT	CC	1946907914
SNP_P4_107073_10367492	NC_021167.1	Ca_kabuli_chr08	10367492	CC	TT	1946907916
SNP_P4_107074_10367521	NC_021167.1	Ca_kabuli_chr08	10367521	GG	AA	1946907918
SNP_P4_107075_10374959	NC_021167.1	Ca_kabuli_chr08	10374959	TT	CC	1946907920
SNP_P4_107076_10374988	NC_021167.1	Ca_kabuli_chr08	10374988	TT	GG	1946907922
SNP_P4_107077_10375081	NC_021167.1	Ca_kabuli_chr08	10375081	TT	CC	1946907924
SNP_P4_107078_10375101	NC_021167.1	Ca_kabuli_chr08	10375101	TT	CC	1946907926
SNP_P4_107079_10375316	NC_021167.1	Ca_kabuli_chr08	10375316	GG	AA	1946907928
SNP_P4_107080_10375381	NC_021167.1	Ca_kabuli_chr08	10375381	GG	AA	1946907930
SNP_P4_107081_10375449	NC_021167.1	Ca_kabuli_chr08	10375449	GG	TT	1946907932
SNP_P4_107082_10375504	NC_021167.1	Ca_kabuli_chr08	10375504	CC	AA	1946907934
SNP_P4_107083_10375520	NC_021167.1	Ca_kabuli_chr08	10375520	AA	GG	1946907936
SNP_P4_107084_10375545	NC_021167.1	Ca_kabuli_chr08	10375545	AA	TT	1946907938
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SNP_P4_107087_10375602	NC_021167.1	Ca_kabuli_chr08	10375602	AA	GG	1946907942
SNP_P4_107088_10375607	NC_021167.1	Ca_kabuli_chr08	10375607	CC	TT	1946907944
SNP_P4_107089_10375629	NC_021167.1	Ca_kabuli_chr08	10375629	GG	AA	1946907946
SNP_P4_107090_10375654	NC_021167.1	Ca_kabuli_chr08	10375654	TT	CC	1946907948
SNP_P4_107091_10375679	NC_021167.1	Ca_kabuli_chr08	10375679	TT	CC	1946907950
SNP_P4_107092_10375682	NC_021167.1	Ca_kabuli_chr08	10375682	CC	GG	1946907952
SNP_P4_107093_10375686	NC_021167.1	Ca_kabuli_chr08	10375686	AA	GG	1946907954
SNP_P4_107094_10375690	NC_021167.1	Ca_kabuli_chr08	10375690	CC	TT	1946907956
SNP_P4_107095_10375721	NC_021167.1	Ca_kabuli_chr08	10375721	CC	AA	1946907958
SNP_P4_107096_10375734	NC_021167.1	Ca_kabuli_chr08	10375734	TT	AA	1946907960
SNP_P4_107097_10375752	NC_021167.1	Ca_kabuli_chr08	10375752	CC	TT	1946907962
SNP_P4_107098_10375805	NC_021167.1	Ca_kabuli_chr08	10375805	GG	AA	1946907964
SNP_P4_107099_10375832	NC_021167.1	Ca_kabuli_chr08	10375832	GG	AA	1946907966
SNP_P4_107100_10375858	NC_021167.1	Ca_kabuli_chr08	10375858	TT	CC	1946907968
SNP_P4_107101_10375903	NC_021167.1	Ca_kabuli_chr08	10375903	AA	CC	1946907970
SNP_P4_107102_10375910	NC_021167.1	Ca_kabuli_chr08	10375910	TT	CC	1946907972
SNP_P4_107103_10375917	NC_021167.1	Ca_kabuli_chr08	10375917	AA	CC	1946907974
SNP_P4_107104_10375935	NC_021167.1	Ca_kabuli_chr08	10375935	GG	CC	1946907976

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_107106_10376028	NC_021167.1	Ca_kabuli_chr08	10376028	AA	GG	1946907980
SNP_P4_107107_10376030	NC_021167.1	Ca_kabuli_chr08	10376030	AA	GG	1946907982
SNP_P4_107108_10376057	NC_021167.1	Ca_kabuli_chr08	10376057	GG	AA	1946907985
SNP_P4_107109_10376116	NC_021167.1	Ca_kabuli_chr08	10376116	AA	GG	1946907987
SNP_P4_107110_10376121	NC_021167.1	Ca_kabuli_chr08	10376121	CC	TT	1946907989
SNP_P4_107111_10376145	NC_021167.1	Ca_kabuli_chr08	10376145	AA	TT	1946907991
SNP_P4_107112_10376175	NC_021167.1	Ca_kabuli_chr08	10376175	AA	CC	1946907993
SNP_P4_107113_10376461	NC_021167.1	Ca_kabuli_chr08	10376461	CC	AA	1946907995
SNP_P4_107114_10376490	NC_021167.1	Ca_kabuli_chr08	10376490	TT	CC	1946907997
SNP_P4_107115_10376568	NC_021167.1	Ca_kabuli_chr08	10376568	TT	CC	1946908000
SNP_P4_107116_10376672	NC_021167.1	Ca_kabuli_chr08	10376672	GG	AA	1946908002
SNP_P4_107117_10376680	NC_021167.1	Ca_kabuli_chr08	10376680	AA	TT	1946908004
SNP_P4_107118_10376782	NC_021167.1	Ca_kabuli_chr08	10376782	GG	CC	1946908006
SNP_P4_107119_10376847	NC_021167.1	Ca_kabuli_chr08	10376847	CC	GG	1946908008
SNP_P4_107120_10378470	NC_021167.1	Ca_kabuli_chr08	10378470	CC	GG	1946908011
SNP_P4_107121_10378514	NC_021167.1	Ca_kabuli_chr08	10378514	GG	AA	1946908013
SNP_P4_107122_10378517	NC_021167.1	Ca_kabuli_chr08	10378517	GG	AA	1946908014
SNP_P4_107123_10378558	NC_021167.1	Ca_kabuli_chr08	10378558	CC	AA	1946908015
SNP_P4_107124_10378819	NC_021167.1	Ca_kabuli_chr08	10378819	AA	TT	1946908016
SNP_P4_107125_10378852	NC_021167.1	Ca_kabuli_chr08	10378852	CC	TT	1946908017
SNP_P4_107126_10378883	NC_021167.1	Ca_kabuli_chr08	10378883	GG	AA	1946908019
SNP_P4_107127_10380756	NC_021167.1	Ca_kabuli_chr08	10380756	AA	GG	1946908021
SNP_P4_107128_10380779	NC_021167.1	Ca_kabuli_chr08	10380779	AA	CC	1946908023
SNP_P4_107129_10380785	NC_021167.1	Ca_kabuli_chr08	10380785	AA	GG	1946908025
SNP_P4_107130_10380803	NC_021167.1	Ca_kabuli_chr08	10380803	GG	TT	1946908027
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SNP_P4_107132_10380836	NC_021167.1	Ca_kabuli_chr08	10380836	CC	TT	1946908031
SNP_P4_107133_10380864	NC_021167.1	Ca_kabuli_chr08	10380864	AA	CC	1946908033
SNP_P4_107134_10380925	NC_021167.1	Ca_kabuli_chr08	10380925	CC	TT	1946908035
SNP_P4_107135_10380968	NC_021167.1	Ca_kabuli_chr08	10380968	GG	AA	1946908037
SNP_P4_107136_10381105	NC_021167.1	Ca_kabuli_chr08	10381105	TT	CC	1946908040
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SNP_P4_107138_10381175	NC_021167.1	Ca_kabuli_chr08	10381175	TT	GG	1946908044
SNP_P4_107139_10381189	NC_021167.1	Ca_kabuli_chr08	10381189	TT	CC	1946908046
SNP_P4_107140_10381216	NC_021167.1	Ca_kabuli_chr08	10381216	GG	AA	1946908048
SNP_P4_107141_10381234	NC_021167.1	Ca_kabuli_chr08	10381234	TT	CC	1946908050
SNP_P4_107142_10381256	NC_021167.1	Ca_kabuli_chr08	10381256	TT	CC	1946908052
SNP_P4_107143_10381288	NC_021167.1	Ca_kabuli_chr08	10381288	TT	GG	1946908054
SNP_P4_107144_10381307	NC_021167.1	Ca_kabuli_chr08	10381307	CC	AA	1946908056
SNP_P4_107145_10381473	NC_021167.1	Ca_kabuli_chr08	10381473	TT	CC	1946908058
SNP_P4_107146_10381502	NC_021167.1	Ca_kabuli_chr08	10381502	GG	AA	1946908060

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_107149_10381706	NC_021167.1	Ca_kabuli_chr08	10381706	AA	GG	1946908064
SNP_P4_107150_10381708	NC_021167.1	Ca_kabuli_chr08	10381708	GG	AA	1946908066
SNP_P4_107151_10381782	NC_021167.1	Ca_kabuli_chr08	10381782	CC	TT	1946908068
SNP_P4_107152_10386950	NC_021167.1	Ca_kabuli_chr08	10386950	TT	GG	1946908070
SNP_P4_107153_10386964	NC_021167.1	Ca_kabuli_chr08	10386964	AA	TT	1946908072
SNP_P4_107154_10387025	NC_021167.1	Ca_kabuli_chr08	10387025	TT	CC	1946908074
SNP_P4_107155_10387074	NC_021167.1	Ca_kabuli_chr08	10387074	AA	GG	1946908076
SNP_P4_107156_10387189	NC_021167.1	Ca_kabuli_chr08	10387189	TT	AA	1946908078
SNP_P4_107157_10387233	NC_021167.1	Ca_kabuli_chr08	10387233	TT	CC	1946908080
SNP_P4_107158_10387236	NC_021167.1	Ca_kabuli_chr08	10387236	TT	GG	1946908082
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SNP_P4_107161_10387292	NC_021167.1	Ca_kabuli_chr08	10387292	GG	TT	1946908088
SNP_P4_107162_10387321	NC_021167.1	Ca_kabuli_chr08	10387321	TT	GG	1946908090
SNP_P4_107163_10387630	NC_021167.1	Ca_kabuli_chr08	10387630	GG	AA	1946908092
SNP_P4_107164_10387993	NC_021167.1	Ca_kabuli_chr08	10387993	TT	CC	1946908094
SNP_P4_107165_10401807	NC_021167.1	Ca_kabuli_chr08	10401807	AA	GG	1946908096
SNP_P4_107166_10401824	NC_021167.1	Ca_kabuli_chr08	10401824	TT	CC	1946908098
SNP_P4_107167_10412284	NC_021167.1	Ca_kabuli_chr08	10412284	GG	AA	1946908100
SNP_P4_107168_10412347	NC_021167.1	Ca_kabuli_chr08	10412347	CC	TT	1946908102
SNP_P4_107169_10412387	NC_021167.1	Ca_kabuli_chr08	10412387	CC	AA	1946908104
SNP_P4_107170_10412632	NC_021167.1	Ca_kabuli_chr08	10412632	GG	TT	1946908106
SNP_P4_107171_10413015	NC_021167.1	Ca_kabuli_chr08	10413015	TT	CC	1946908108
SNP_P4_107172_10419129	NC_021167.1	Ca_kabuli_chr08	10419129	CC	TT	1946908110
SNP_P4_107173_10428461	NC_021167.1	Ca_kabuli_chr08	10428461	GG	AA	1946908112
SNP_P4_107174_10428615	NC_021167.1	Ca_kabuli_chr08	10428615	AA	GG	1946908114
SNP_P4_107175_10428676	NC_021167.1	Ca_kabuli_chr08	10428676	TT	CC	1946908116
SNP_P4_107176_10428685	NC_021167.1	Ca_kabuli_chr08	10428685	TT	CC	1946908118
SNP_P4_107177_10429545	NC_021167.1	Ca_kabuli_chr08	10429545	AA	TT	1946908120
SNP_P4_107178_10429562	NC_021167.1	Ca_kabuli_chr08	10429562	AA	TT	1946908122
SNP_P4_107179_10430268	NC_021167.1	Ca_kabuli_chr08	10430268	AA	GG	1946908124
SNP_P4_107180_10442212	NC_021167.1	Ca_kabuli_chr08	10442212	TT	AA	1946908126
SNP_P4_107181_10508410	NC_021167.1	Ca_kabuli_chr08	10508410	GG	AA	1946908128
SNP_P4_107182_10508414	NC_021167.1	Ca_kabuli_chr08	10508414	AA	CC	1946908130
SNP_P4_107183_10509107	NC_021167.1	Ca_kabuli_chr08	10509107	CC	TT	1946908132
SNP_P4_107184_10509130	NC_021167.1	Ca_kabuli_chr08	10509130	AA	CC	1946908134
SNP_P4_107185_10509134	NC_021167.1	Ca_kabuli_chr08	10509134	CC	TT	1946908136
SNP_P4_107186_10509191	NC_021167.1	Ca_kabuli_chr08	10509191	TT	CC	1946908138
SNP_P4_107187_10509198	NC_021167.1	Ca_kabuli_chr08	10509198	TT	CC	1946908140
SNP_P4_107188_10509582	NC_021167.1	Ca_kabuli_chr08	10509582	GG	AA	1946908142
SNP_P4_107191_10574330	NC_021167.1	Ca_kabuli_chr08	10574330	GG	CC	1946908144

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_107193_10575785	NC_021167.1	Ca_kabuli_chr08	10575785	GG	AA	1946908148
SNP_P4_107194_10589752	NC_021167.1	Ca_kabuli_chr08	10589752	CC	TT	1946908150
SNP_P4_107195_10589808	NC_021167.1	Ca_kabuli_chr08	10589808	GG	AA	1946908152
SNP_P4_107196_10590011	NC_021167.1	Ca_kabuli_chr08	10590011	CC	GG	1946908154
SNP_P4_107197_10590020	NC_021167.1	Ca_kabuli_chr08	10590020	TT	CC	1946908156
SNP_P4_107198_10590022	NC_021167.1	Ca_kabuli_chr08	10590022	AA	TT	1946908158
SNP_P4_107199_10590065	NC_021167.1	Ca_kabuli_chr08	10590065	GG	CC	1946908160
SNP_P4_107201_10590230	NC_021167.1	Ca_kabuli_chr08	10590230	AA	TT	1946908162
SNP_P4_107202_10590404	NC_021167.1	Ca_kabuli_chr08	10590404	TT	AA	1946908164
SNP_P4_107203_10590416	NC_021167.1	Ca_kabuli_chr08	10590416	GG	AA	1946908167
SNP_P4_107204_10590452	NC_021167.1	Ca_kabuli_chr08	10590452	CC	TT	1946908169
SNP_P4_107205_10590629	NC_021167.1	Ca_kabuli_chr08	10590629	AA	CC	1946908171
SNP_P4_107206_10590693	NC_021167.1	Ca_kabuli_chr08	10590693	GG	AA	1946908173
SNP_P4_107207_10590721	NC_021167.1	Ca_kabuli_chr08	10590721	CC	GG	1946908175
SNP_P4_107208_10590752	NC_021167.1	Ca_kabuli_chr08	10590752	CC	AA	1946908177
SNP_P4_107209_10590787	NC_021167.1	Ca_kabuli_chr08	10590787	AA	TT	1946908179
SNP_P4_107210_10590884	NC_021167.1	Ca_kabuli_chr08	10590884	CC	TT	1946908181
SNP_P4_107211_10591047	NC_021167.1	Ca_kabuli_chr08	10591047	GG	TT	1946908183
SNP_P4_107212_10591062	NC_021167.1	Ca_kabuli_chr08	10591062	CC	AA	1946908185
SNP_P4_107213_10591102	NC_021167.1	Ca_kabuli_chr08	10591102	TT	AA	1946908187
SNP_P4_107215_10591148	NC_021167.1	Ca_kabuli_chr08	10591148	GG	TT	1946908190
SNP_P4_107216_10591196	NC_021167.1	Ca_kabuli_chr08	10591196	AA	TT	1946908192
SNP_P4_107217_10591272	NC_021167.1	Ca_kabuli_chr08	10591272	GG	TT	1946908194
SNP_P4_107218_10591281	NC_021167.1	Ca_kabuli_chr08	10591281	AA	GG	1946908196
SNP_P4_107219_10591282	NC_021167.1	Ca_kabuli_chr08	10591282	CC	AA	1946908198
SNP_P4_107220_10591284	NC_021167.1	Ca_kabuli_chr08	10591284	CC	TT	1946908200
SNP_P4_107221_10591288	NC_021167.1	Ca_kabuli_chr08	10591288	AA	TT	1946908202
SNP_P4_107222_10591289	NC_021167.1	Ca_kabuli_chr08	10591289	CC	TT	1946908204
SNP_P4_107223_10591291	NC_021167.1	Ca_kabuli_chr08	10591291	TT	CC	1946908206
SNP_P4_107224_10591315	NC_021167.1	Ca_kabuli_chr08	10591315	TT	CC	1946908208
SNP_P4_107225_10591331	NC_021167.1	Ca_kabuli_chr08	10591331	AA	GG	1946908210
SNP_P4_107226_10591334	NC_021167.1	Ca_kabuli_chr08	10591334	CC	GG	1946908212
SNP_P4_107227_10591339	NC_021167.1	Ca_kabuli_chr08	10591339	CC	AA	1946908214
SNP_P4_107228_10591355	NC_021167.1	Ca_kabuli_chr08	10591355	GG	AA	1946908216
SNP_P4_107229_10591383	NC_021167.1	Ca_kabuli_chr08	10591383	GG	AA	1946908218
SNP_P4_107230_10591463	NC_021167.1	Ca_kabuli_chr08	10591463	GG	AA	1946908220
SNP_P4_107231_10591529	NC_021167.1	Ca_kabuli_chr08	10591529	TT	AA	1946908222
SNP_P4_107232_10591560	NC_021167.1	Ca_kabuli_chr08	10591560	TT	CC	1946908224
SNP_P4_107233_10601993	NC_021167.1	Ca_kabuli_chr08	10601993	AA	GG	1946908226
SNP_P4_107234_10601999	NC_021167.1	Ca_kabuli_chr08	10601999	AA	TT	1946908228
SNP_P4_107235_10606195	NC_021167.1	Ca_kabuli_chr08	10606195	GG	AA	1946908230

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_107237_10612502	NC_021167.1	Ca_kabuli_chr08	10612502	TT	CC	1946908234
SNP_P4_107238_10612733	NC_021167.1	Ca_kabuli_chr08	10612733	TT	CC	1946908236
SNP_P4_107239_10612771	NC_021167.1	Ca_kabuli_chr08	10612771	GG	AA	1946908238
SNP_P4_107240_10612789	NC_021167.1	Ca_kabuli_chr08	10612789	AA	GG	1946908240
SNP_P4_107242_10632001	NC_021167.1	Ca_kabuli_chr08	10632001	GG	AA	1946908242
SNP_P4_107243_10632004	NC_021167.1	Ca_kabuli_chr08	10632004	GG	AA	1946908244
SNP_P4_107244_10632006	NC_021167.1	Ca_kabuli_chr08	10632006	CC	TT	1946908246
SNP_P4_107245_10645712	NC_021167.1	Ca_kabuli_chr08	10645712	CC	TT	1946908248
SNP_P4_107246_10645835	NC_021167.1	Ca_kabuli_chr08	10645835	AA	TT	1946908250
SNP_P4_107247_10646025	NC_021167.1	Ca_kabuli_chr08	10646025	TT	CC	1946908252
SNP_P4_107248_10646061	NC_021167.1	Ca_kabuli_chr08	10646061	GG	TT	1946908254
SNP_P4_107249_10646076	NC_021167.1	Ca_kabuli_chr08	10646076	GG	AA	1946908256
SNP_P4_107250_10646085	NC_021167.1	Ca_kabuli_chr08	10646085	AA	TT	1946908258
SNP_P4_107251_10646201	NC_021167.1	Ca_kabuli_chr08	10646201	CC	GG	1946908260
SNP_P4_107252_10655700	NC_021167.1	Ca_kabuli_chr08	10655700	GG	AA	1946908262
SNP_P4_107253_10655704	NC_021167.1	Ca_kabuli_chr08	10655704	GG	AA	1946908264
SNP_P4_107254_10660049	NC_021167.1	Ca_kabuli_chr08	10660049	GG	AA	1946908266
SNP_P4_107255_10671813	NC_021167.1	Ca_kabuli_chr08	10671813	TT	AA	1946908268
SNP_P4_107257_10671918	NC_021167.1	Ca_kabuli_chr08	10671918	TT	CC	1946908270
SNP_P4_107258_10672009	NC_021167.1	Ca_kabuli_chr08	10672009	CC	TT	1946908272
SNP_P4_107259_10672140	NC_021167.1	Ca_kabuli_chr08	10672140	CC	TT	1946908274
SNP_P4_107260_10672434	NC_021167.1	Ca_kabuli_chr08	10672434	AA	GG	1946908276
SNP_P4_107261_10672442	NC_021167.1	Ca_kabuli_chr08	10672442	GG	AA	1946908278
SNP_P4_107263_10686627	NC_021167.1	Ca_kabuli_chr08	10686627	GG	AA	1946908280
SNP_P4_107264_10697666	NC_021167.1	Ca_kabuli_chr08	10697666	AA	GG	1946908282
SNP_P4_107265_10697684	NC_021167.1	Ca_kabuli_chr08	10697684	CC	TT	1946908284
SNP_P4_107266_10697689	NC_021167.1	Ca_kabuli_chr08	10697689	AA	GG	1946908286
SNP_P4_107267_10699236	NC_021167.1	Ca_kabuli_chr08	10699236	CC	TT	1946908288
SNP_P4_107268_10699245	NC_021167.1	Ca_kabuli_chr08	10699245	TT	CC	1946908290
SNP_P4_107269_10699247	NC_021167.1	Ca_kabuli_chr08	10699247	GG	CC	1946908292
SNP_P4_107270_10699249	NC_021167.1	Ca_kabuli_chr08	10699249	GG	AA	1946908294
SNP_P4_107271_10699263	NC_021167.1	Ca_kabuli_chr08	10699263	AA	GG	1946908296
SNP_P4_107272_10699268	NC_021167.1	Ca_kabuli_chr08	10699268	AA	TT	1946908298
SNP_P4_107273_10699269	NC_021167.1	Ca_kabuli_chr08	10699269	TT	CC	1946908300
SNP_P4_107274_10699317	NC_021167.1	Ca_kabuli_chr08	10699317	CC	GG	1946908302
SNP_P4_107275_10699341	NC_021167.1	Ca_kabuli_chr08	10699341	TT	CC	1946908304
SNP_P4_107276_10699353	NC_021167.1	Ca_kabuli_chr08	10699353	AA	CC	1946908306
SNP_P4_107277_10699360	NC_021167.1	Ca_kabuli_chr08	10699360	CC	TT	1946908308
SNP_P4_107278_10700081	NC_021167.1	Ca_kabuli_chr08	10700081	AA	TT	1946908310
SNP_P4_107279_10701361	NC_021167.1	Ca_kabuli_chr08	10701361	AA	CC	1946908312
SNP_P4_107280_10701397	NC_021167.1	Ca_kabuli_chr08	10701397	AA	CC	1946908314

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_107282_10701414	NC_021167.1	Ca_kabuli_chr08	10701414	CC	TT	1946908318
SNP_P4_107283_10701438	NC_021167.1	Ca_kabuli_chr08	10701438	AA	GG	1946908320
SNP_P4_107284_10701470	NC_021167.1	Ca_kabuli_chr08	10701470	AA	GG	1946908322
SNP_P4_107285_10701523	NC_021167.1	Ca_kabuli_chr08	10701523	AA	TT	1946908324
SNP_P4_107286_10701537	NC_021167.1	Ca_kabuli_chr08	10701537	CC	AA	1946908326
SNP_P4_107287_10701556	NC_021167.1	Ca_kabuli_chr08	10701556	CC	AA	1946908328
SNP_P4_107288_10701601	NC_021167.1	Ca_kabuli_chr08	10701601	CC	TT	1946908330
SNP_P4_107289_10701611	NC_021167.1	Ca_kabuli_chr08	10701611	AA	GG	1946908332
SNP_P4_107290_10701698	NC_021167.1	Ca_kabuli_chr08	10701698	GG	AA	1946908334
SNP_P4_107291_10701702	NC_021167.1	Ca_kabuli_chr08	10701702	GG	AA	1946908336
SNP_P4_107292_10701719	NC_021167.1	Ca_kabuli_chr08	10701719	AA	GG	1946908338
SNP_P4_107293_10701745	NC_021167.1	Ca_kabuli_chr08	10701745	CC	GG	1946908340
SNP_P4_107294_10701763	NC_021167.1	Ca_kabuli_chr08	10701763	TT	AA	1946908342
SNP_P4_107295_10701815	NC_021167.1	Ca_kabuli_chr08	10701815	CC	TT	1946908344
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SNP_P4_107297_10701925	NC_021167.1	Ca_kabuli_chr08	10701925	GG	AA	1946908348
SNP_P4_107299_10702131	NC_021167.1	Ca_kabuli_chr08	10702131	CC	AA	1946908350
SNP_P4_107300_10727845	NC_021167.1	Ca_kabuli_chr08	10727845	TT	GG	1946908352
SNP_P4_107301_10728066	NC_021167.1	Ca_kabuli_chr08	10728066	CC	AA	1946908354
SNP_P4_107302_10728253	NC_021167.1	Ca_kabuli_chr08	10728253	GG	AA	1946908356
SNP_P4_107303_10731032	NC_021167.1	Ca_kabuli_chr08	10731032	GG	AA	1946908358
SNP_P4_107305_10762215	NC_021167.1	Ca_kabuli_chr08	10762215	AA	GG	1946908360
SNP_P4_107306_10762579	NC_021167.1	Ca_kabuli_chr08	10762579	CC	TT	1946908362
SNP_P4_107307_10790566	NC_021167.1	Ca_kabuli_chr08	10790566	TT	GG	1946908364
SNP_P4_107308_10790816	NC_021167.1	Ca_kabuli_chr08	10790816	TT	GG	1946908366
SNP_P4_107310_10825458	NC_021167.1	Ca_kabuli_chr08	10825458	AA	GG	1946908368
SNP_P4_107311_10825459	NC_021167.1	Ca_kabuli_chr08	10825459	CC	TT	1946908370
SNP_P4_107312_10825898	NC_021167.1	Ca_kabuli_chr08	10825898	TT	AA	1946908372
SNP_P4_107313_10826182	NC_021167.1	Ca_kabuli_chr08	10826182	GG	AA	1946908374
SNP_P4_107314_10826192	NC_021167.1	Ca_kabuli_chr08	10826192	TT	GG	1946908376
SNP_P4_107315_10826432	NC_021167.1	Ca_kabuli_chr08	10826432	CC	GG	1946908378
SNP_P4_107316_10826436	NC_021167.1	Ca_kabuli_chr08	10826436	GG	AA	1946908380
SNP_P4_107317_10826440	NC_021167.1	Ca_kabuli_chr08	10826440	CC	TT	1946908382
SNP_P4_107318_10826453	NC_021167.1	Ca_kabuli_chr08	10826453	TT	CC	1946908385
SNP_P4_107319_10826460	NC_021167.1	Ca_kabuli_chr08	10826460	GG	AA	1946908387
SNP_P4_107320_10827800	NC_021167.1	Ca_kabuli_chr08	10827800	CC	TT	1946908389
SNP_P4_107321_10891165	NC_021167.1	Ca_kabuli_chr08	10891165	CC	TT	1946908391
SNP_P4_107322_10905114	NC_021167.1	Ca_kabuli_chr08	10905114	CC	AA	1946908393
SNP_P4_107323_10905538	NC_021167.1	Ca_kabuli_chr08	10905538	GG	AA	1946908395
SNP_P4_107324_10934236	NC_021167.1	Ca_kabuli_chr08	10934236	TT	CC	1946908397
SNP_P4_107325_10934312	NC_021167.1	Ca_kabuli_chr08	10934312	CC	GG	1946908399

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_107328_10936280	NC_021167.1	Ca_kabuli_chr08	10936280	GG	AA	1946908403
SNP_P4_107329_10936296	NC_021167.1	Ca_kabuli_chr08	10936296	GG	AA	1946908405
SNP_P4_107330_10936322	NC_021167.1	Ca_kabuli_chr08	10936322	TT	CC	1946908407
SNP_P4_107331_10944114	NC_021167.1	Ca_kabuli_chr08	10944114	CC	TT	1946908409
SNP_P4_107332_10948318	NC_021167.1	Ca_kabuli_chr08	10948318	TT	CC	1946908411
SNP_P4_107333_10951313	NC_021167.1	Ca_kabuli_chr08	10951313	TT	GG	1946908413
SNP_P4_107334_10955153	NC_021167.1	Ca_kabuli_chr08	10955153	AA	CC	1946908415
SNP_P4_107335_10955200	NC_021167.1	Ca_kabuli_chr08	10955200	GG	CC	1946908417
SNP_P4_107336_10955588	NC_021167.1	Ca_kabuli_chr08	10955588	TT	AA	1946908419
SNP_P4_107337_10959970	NC_021167.1	Ca_kabuli_chr08	10959970	TT	CC	1946908421
SNP_P4_107338_10960134	NC_021167.1	Ca_kabuli_chr08	10960134	GG	TT	1946908423
SNP_P4_107339_10960190	NC_021167.1	Ca_kabuli_chr08	10960190	GG	AA	1946908425
SNP_P4_107340_10969787	NC_021167.1	Ca_kabuli_chr08	10969787	TT	AA	1946908427
SNP_P4_107341_10969912	NC_021167.1	Ca_kabuli_chr08	10969912	AA	GG	1946908429
SNP_P4_107342_10970479	NC_021167.1	Ca_kabuli_chr08	10970479	TT	CC	1946908431
SNP_P4_107343_10970829	NC_021167.1	Ca_kabuli_chr08	10970829	GG	TT	1946908433
SNP_P4_107344_10970855	NC_021167.1	Ca_kabuli_chr08	10970855	AA	GG	1946908435
SNP_P4_107345_10973867	NC_021167.1	Ca_kabuli_chr08	10973867	AA	CC	1946908437
SNP_P4_107346_10973893	NC_021167.1	Ca_kabuli_chr08	10973893	AA	TT	1946908439
SNP_P4_107347_10974108	NC_021167.1	Ca_kabuli_chr08	10974108	GG	CC	1946908441
SNP_P4_107348_10974160	NC_021167.1	Ca_kabuli_chr08	10974160	AA	GG	1946908444
SNP_P4_107349_11002565	NC_021167.1	Ca_kabuli_chr08	11002565	GG	TT	1946908446
SNP_P4_107350_11002573	NC_021167.1	Ca_kabuli_chr08	11002573	TT	AA	1946908448
SNP_P4_107351_11002585	NC_021167.1	Ca_kabuli_chr08	11002585	TT	GG	1946908450
SNP_P4_107352_11015176	NC_021167.1	Ca_kabuli_chr08	11015176	TT	GG	1946908452
SNP_P4_107353_11015194	NC_021167.1	Ca_kabuli_chr08	11015194	GG	AA	1946908454
SNP_P4_107354_11015222	NC_021167.1	Ca_kabuli_chr08	11015222	GG	AA	1946908456
SNP_P4_107355_11015471	NC_021167.1	Ca_kabuli_chr08	11015471	CC	GG	1946908458
SNP_P4_107356_11015550	NC_021167.1	Ca_kabuli_chr08	11015550	AA	CC	1946908460
SNP_P4_107357_11045493	NC_021167.1	Ca_kabuli_chr08	11045493	AA	CC	1946908462
SNP_P4_107358_11045496	NC_021167.1	Ca_kabuli_chr08	11045496	TT	CC	1946908464
SNP_P4_107359_11060501	NC_021167.1	Ca_kabuli_chr08	11060501	GG	TT	1946908466
SNP_P4_107360_11063093	NC_021167.1	Ca_kabuli_chr08	11063093	TT	AA	1946908468
SNP_P4_107361_11063556	NC_021167.1	Ca_kabuli_chr08	11063556	TT	AA	1946908470
SNP_P4_107362_11063579	NC_021167.1	Ca_kabuli_chr08	11063579	AA	GG	1946908472
SNP_P4_107364_11066644	NC_021167.1	Ca_kabuli_chr08	11066644	CC	TT	1946908474
SNP_P4_107366_11067490	NC_021167.1	Ca_kabuli_chr08	11067490	TT	CC	1946908476
SNP_P4_107367_11067499	NC_021167.1	Ca_kabuli_chr08	11067499	TT	CC	1946908478
SNP_P4_107368_11067546	NC_021167.1	Ca_kabuli_chr08	11067546	AA	TT	1946908480
SNP_P4_107369_11067552	NC_021167.1	Ca_kabuli_chr08	11067552	CC	TT	1946908482
SNP_P4_107370_11067684	NC_021167.1	Ca_kabuli_chr08	11067684	GG	AA	1946908484

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_107372_11070723	NC_021167.1	Ca_kabuli_chr08	11070723	TT	CC	1946908488
SNP_P4_107373_11070732	NC_021167.1	Ca_kabuli_chr08	11070732	CC	TT	1946908490
SNP_P4_107375_11071878	NC_021167.1	Ca_kabuli_chr08	11071878	TT	CC	1946908492
SNP_P4_107376_11071899	NC_021167.1	Ca_kabuli_chr08	11071899	TT	CC	1946908494
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SNP_P4_107379_11072703	NC_021167.1	Ca_kabuli_chr08	11072703	AA	GG	1946908501
SNP_P4_107380_11072728	NC_021167.1	Ca_kabuli_chr08	11072728	CC	AA	1946908503
SNP_P4_107381_11072747	NC_021167.1	Ca_kabuli_chr08	11072747	AA	TT	1946908505
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SNP_P4_107391_11083762	NC_021167.1	Ca_kabuli_chr08	11083762	TT	AA	1946908523
SNP_P4_107392_11084024	NC_021167.1	Ca_kabuli_chr08	11084024	GG	AA	1946908525
SNP_P4_107393_11084183	NC_021167.1	Ca_kabuli_chr08	11084183	GG	TT	1946908527
SNP_P4_107394_11086526	NC_021167.1	Ca_kabuli_chr08	11086526	GG	TT	1946908529
SNP_P4_107396_11088840	NC_021167.1	Ca_kabuli_chr08	11088840	CC	GG	1946908531
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SNP_P4_107405_11091343	NC_021167.1	Ca_kabuli_chr08	11091343	CC	AA	1946908549
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SNP_P4_107407_11091360	NC_021167.1	Ca_kabuli_chr08	11091360	TT	CC	1946908553
SNP_P4_107408_11091391	NC_021167.1	Ca_kabuli_chr08	11091391	CC	TT	1946908555
SNP_P4_107409_11091398	NC_021167.1	Ca_kabuli_chr08	11091398	AA	GG	1946908557
SNP_P4_107410_11091617	NC_021167.1	Ca_kabuli_chr08	11091617	CC	AA	1946908559
SNP_P4_107411_11091882	NC_021167.1	Ca_kabuli_chr08	11091882	TT	AA	1946908561
SNP_P4_107412_11092198	NC_021167.1	Ca_kabuli_chr08	11092198	AA	CC	1946908563
SNP_P4_107413_11092370	NC_021167.1	Ca_kabuli_chr08	11092370	GG	AA	1946908565
SNP_P4_107415_11098875	NC_021167.1	Ca_kabuli_chr08	11098875	CC	TT	1946908567
SNP_P4_107416_11099355	NC_021167.1	Ca_kabuli_chr08	11099355	TT	GG	1946908569

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_107419_11099916	NC_021167.1	Ca_kabuli_chr08	11099916	TT	AA	1946908575
SNP_P4_107420_11100872	NC_021167.1	Ca_kabuli_chr08	11100872	TT	GG	1946908577
SNP_P4_107421_11101158	NC_021167.1	Ca_kabuli_chr08	11101158	TT	CC	1946908579
SNP_P4_107422_11101161	NC_021167.1	Ca_kabuli_chr08	11101161	TT	CC	1946908581
SNP_P4_107423_11101727	NC_021167.1	Ca_kabuli_chr08	11101727	AA	GG	1946908583
SNP_P4_107424_11102131	NC_021167.1	Ca_kabuli_chr08	11102131	TT	CC	1946908586
SNP_P4_107425_11106051	NC_021167.1	Ca_kabuli_chr08	11106051	GG	AA	1946908588
SNP_P4_107426_11107152	NC_021167.1	Ca_kabuli_chr08	11107152	TT	AA	1946908590
SNP_P4_107427_11109572	NC_021167.1	Ca_kabuli_chr08	11109572	AA	TT	1946908592
SNP_P4_107428_11109641	NC_021167.1	Ca_kabuli_chr08	11109641	GG	AA	1946908594
SNP_P4_107431_11113485	NC_021167.1	Ca_kabuli_chr08	11113485	CC	TT	1946908596
SNP_P4_107432_11113551	NC_021167.1	Ca_kabuli_chr08	11113551	AA	GG	1946908598
SNP_P4_107433_11113607	NC_021167.1	Ca_kabuli_chr08	11113607	GG	CC	1946908600
SNP_P4_107435_11113957	NC_021167.1	Ca_kabuli_chr08	11113957	TT	AA	1946908602
SNP_P4_107436_11113961	NC_021167.1	Ca_kabuli_chr08	11113961	TT	AA	1946908604
SNP_P4_107437_11113972	NC_021167.1	Ca_kabuli_chr08	11113972	TT	CC	1946908606
SNP_P4_107438_11113984	NC_021167.1	Ca_kabuli_chr08	11113984	TT	CC	1946908608
SNP_P4_107439_11114009	NC_021167.1	Ca_kabuli_chr08	11114009	CC	TT	1946908610
SNP_P4_107440_11114010	NC_021167.1	Ca_kabuli_chr08	11114010	TT	CC	1946908612
SNP_P4_107442_11122277	NC_021167.1	Ca_kabuli_chr08	11122277	AA	GG	1946908614
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SNP_P4_107452_11137078	NC_021167.1	Ca_kabuli_chr08	11137078	GG	TT	1946908626
SNP_P4_107453_11137110	NC_021167.1	Ca_kabuli_chr08	11137110	AA	GG	1946908628
SNP_P4_107454_11142552	NC_021167.1	Ca_kabuli_chr08	11142552	AA	GG	1946908630
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SNP_P4_107456_11143541	NC_021167.1	Ca_kabuli_chr08	11143541	CC	TT	1946908634
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SNP_P4_107458_11143902	NC_021167.1	Ca_kabuli_chr08	11143902	GG	AA	1946908638
SNP_P4_107459_11143959	NC_021167.1	Ca_kabuli_chr08	11143959	AA	GG	1946908640
SNP_P4_107460_11143996	NC_021167.1	Ca_kabuli_chr08	11143996	AA	GG	1946908642
SNP_P4_107461_11144005	NC_021167.1	Ca_kabuli_chr08	11144005	GG	AA	1946908644
SNP_P4_107462_11144032	NC_021167.1	Ca_kabuli_chr08	11144032	TT	CC	1946908646
SNP_P4_107463_11144071	NC_021167.1	Ca_kabuli_chr08	11144071	GG	AA	1946908648
SNP_P4_107464_11144190	NC_021167.1	Ca_kabuli_chr08	11144190	GG	AA	1946908650
SNP_P4_107465_11144269	NC_021167.1	Ca_kabuli_chr08	11144269	TT	CC	1946908652
SNP_P4_107466_11144389	NC_021167.1	Ca_kabuli_chr08	11144389	CC	AA	1946908654

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_107469_11144576	NC_021167.1	Ca_kabuli_chr08	11144576	GG	AA	1946908660
SNP_P4_107470_11144584	NC_021167.1	Ca_kabuli_chr08	11144584	AA	GG	1946908662
SNP_P4_107471_11144773	NC_021167.1	Ca_kabuli_chr08	11144773	GG	AA	1946908664
SNP_P4_107472_11144874	NC_021167.1	Ca_kabuli_chr08	11144874	GG	TT	1946908666
SNP_P4_107473_11145023	NC_021167.1	Ca_kabuli_chr08	11145023	GG	AA	1946908668
SNP_P4_107474_11145321	NC_021167.1	Ca_kabuli_chr08	11145321	CC	TT	1946908670
SNP_P4_107475_11145378	NC_021167.1	Ca_kabuli_chr08	11145378	TT	GG	1946908672
SNP_P4_107476_11145554	NC_021167.1	Ca_kabuli_chr08	11145554	CC	TT	1946908674
SNP_P4_107477_11145609	NC_021167.1	Ca_kabuli_chr08	11145609	AA	CC	1946908676
SNP_P4_107479_11145681	NC_021167.1	Ca_kabuli_chr08	11145681	CC	TT	1946908678
SNP_P4_107481_11145871	NC_021167.1	Ca_kabuli_chr08	11145871	CC	AA	1946908680
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SNP_P4_107486_11146576	NC_021167.1	Ca_kabuli_chr08	11146576	CC	TT	1946908686
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SNP_P4_107491_11147040	NC_021167.1	Ca_kabuli_chr08	11147040	CC	TT	1946908694
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SNP_P4_107493_11153182	NC_021167.1	Ca_kabuli_chr08	11153182	GG	AA	1946908698
SNP_P4_107494_11153540	NC_021167.1	Ca_kabuli_chr08	11153540	GG	AA	1946908700
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SNP_P4_107500_11157955	NC_021167.1	Ca_kabuli_chr08	11157955	TT	CC	1946908712
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SNP_P4_107505_11158320	NC_021167.1	Ca_kabuli_chr08	11158320	CC	TT	1946908722
SNP_P4_107506_11158347	NC_021167.1	Ca_kabuli_chr08	11158347	GG	AA	1946908724
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SNP_P4_107508_11158384	NC_021167.1	Ca_kabuli_chr08	11158384	AA	GG	1946908728
SNP_P4_107509_11158385	NC_021167.1	Ca_kabuli_chr08	11158385	CC	TT	1946908730
SNP_P4_107510_11158389	NC_021167.1	Ca_kabuli_chr08	11158389	GG	AA	1946908732
SNP_P4_107511_11158401	NC_021167.1	Ca_kabuli_chr08	11158401	CC	AA	1946908734
SNP_P4_107512_11158490	NC_021167.1	Ca_kabuli_chr08	11158490	TT	GG	1946908736
SNP_P4_107513_11158496	NC_021167.1	Ca_kabuli_chr08	11158496	AA	GG	1946908738

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_107516_11158832	NC_021167.1	Ca_kabuli_chr08	11158832	GG	TT	1946908744
SNP_P4_107517_11159279	NC_021167.1	Ca_kabuli_chr08	11159279	GG	TT	1946908746
SNP_P4_107518_11160381	NC_021167.1	Ca_kabuli_chr08	11160381	CC	TT	1946908748
SNP_P4_107519_11160425	NC_021167.1	Ca_kabuli_chr08	11160425	TT	AA	1946908750
SNP_P4_107521_11164015	NC_021167.1	Ca_kabuli_chr08	11164015	GG	TT	1946908752
SNP_P4_107523_11164841	NC_021167.1	Ca_kabuli_chr08	11164841	CC	TT	1946908755
SNP_P4_107524_11164845	NC_021167.1	Ca_kabuli_chr08	11164845	TT	CC	1946908757
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SNP_P4_107526_11166092	NC_021167.1	Ca_kabuli_chr08	11166092	TT	CC	1946908761
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SNP_P4_107529_11167203	NC_021167.1	Ca_kabuli_chr08	11167203	GG	AA	1946908767
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SNP_P4_107532_11168665	NC_021167.1	Ca_kabuli_chr08	11168665	TT	CC	1946908772
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SNP_P4_107546_11169039	NC_021167.1	Ca_kabuli_chr08	11169039	TT	CC	1946908798
SNP_P4_107547_11169056	NC_021167.1	Ca_kabuli_chr08	11169056	AA	GG	1946908800
SNP_P4_107548_11169105	NC_021167.1	Ca_kabuli_chr08	11169105	TT	CC	1946908802
SNP_P4_107549_11169132	NC_021167.1	Ca_kabuli_chr08	11169132	TT	CC	1946908804
SNP_P4_107550_11169151	NC_021167.1	Ca_kabuli_chr08	11169151	GG	CC	1946908806
SNP_P4_107551_11169198	NC_021167.1	Ca_kabuli_chr08	11169198	GG	AA	1946908808
SNP_P4_107552_11169206	NC_021167.1	Ca_kabuli_chr08	11169206	GG	AA	1946908810
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SNP_P4_107554_11169262	NC_021167.1	Ca_kabuli_chr08	11169262	CC	TT	1946908814
SNP_P4_107555_11169285	NC_021167.1	Ca_kabuli_chr08	11169285	CC	GG	1946908816
SNP_P4_107556_11169315	NC_021167.1	Ca_kabuli_chr08	11169315	AA	GG	1946908818
SNP_P4_107558_11171111	NC_021167.1	Ca_kabuli_chr08	11171111	CC	TT	1946908820
SNP_P4_107559_11174193	NC_021167.1	Ca_kabuli_chr08	11174193	AA	TT	1946908822
SNP_P4_107560_11175854	NC_021167.1	Ca_kabuli_chr08	11175854	GG	AA	1946908824

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_107563_11179013	NC_021167.1	Ca_kabuli_chr08	11179013	AA	GG	1946908830
SNP_P4_107564_11180283	NC_021167.1	Ca_kabuli_chr08	11180283	CC	GG	1946908832
SNP_P4_107565_11180307	NC_021167.1	Ca_kabuli_chr08	11180307	CC	TT	1946908834
SNP_P4_107566_11180474	NC_021167.1	Ca_kabuli_chr08	11180474	TT	AA	1946908836
SNP_P4_107567_11180498	NC_021167.1	Ca_kabuli_chr08	11180498	CC	TT	1946908838
SNP_P4_107568_11180842	NC_021167.1	Ca_kabuli_chr08	11180842	GG	AA	1946908840
SNP_P4_107569_11180956	NC_021167.1	Ca_kabuli_chr08	11180956	CC	AA	1946908842
SNP_P4_107570_11185077	NC_021167.1	Ca_kabuli_chr08	11185077	CC	AA	1946908844
SNP_P4_107571_11185481	NC_021167.1	Ca_kabuli_chr08	11185481	CC	AA	1946908846
SNP_P4_107572_11185719	NC_021167.1	Ca_kabuli_chr08	11185719	GG	AA	1946908848
SNP_P4_107573_11186071	NC_021167.1	Ca_kabuli_chr08	11186071	AA	GG	1946908850
SNP_P4_107574_11191338	NC_021167.1	Ca_kabuli_chr08	11191338	AA	GG	1946908852
SNP_P4_107576_11193836	NC_021167.1	Ca_kabuli_chr08	11193836	AA	GG	1946908854
SNP_P4_107577_11194201	NC_021167.1	Ca_kabuli_chr08	11194201	TT	AA	1946908856
SNP_P4_107578_11230532	NC_021167.1	Ca_kabuli_chr08	11230532	GG	AA	1946908858
SNP_P4_107580_11246881	NC_021167.1	Ca_kabuli_chr08	11246881	AA	TT	1946908860
SNP_P4_107581_11248404	NC_021167.1	Ca_kabuli_chr08	11248404	AA	TT	1946908862
SNP_P4_107583_11314333	NC_021167.1	Ca_kabuli_chr08	11314333	TT	CC	1946908864
SNP_P4_107584_11336475	NC_021167.1	Ca_kabuli_chr08	11336475	CC	TT	1946908866
SNP_P4_107585_11340332	NC_021167.1	Ca_kabuli_chr08	11340332	CC	TT	1946908868
SNP_P4_107588_11360110	NC_021167.1	Ca_kabuli_chr08	11360110	TT	CC	1946908870
SNP_P4_107589_11360112	NC_021167.1	Ca_kabuli_chr08	11360112	CC	TT	1946908872
SNP_P4_107590_11360123	NC_021167.1	Ca_kabuli_chr08	11360123	AA	CC	1946908874
SNP_P4_107591_11360172	NC_021167.1	Ca_kabuli_chr08	11360172	AA	GG	1946908876
SNP_P4_107592_11369633	NC_021167.1	Ca_kabuli_chr08	11369633	AA	GG	1946908878
SNP_P4_107593_11369671	NC_021167.1	Ca_kabuli_chr08	11369671	TT	CC	1946908880
SNP_P4_107594_11391079	NC_021167.1	Ca_kabuli_chr08	11391079	AA	TT	1946908882
SNP_P4_107595_11393227	NC_021167.1	Ca_kabuli_chr08	11393227	GG	TT	1946908884
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SNP_P4_107597_11415518	NC_021167.1	Ca_kabuli_chr08	11415518	AA	GG	1946908888
SNP_P4_107598_11415552	NC_021167.1	Ca_kabuli_chr08	11415552	AA	GG	1946908890
SNP_P4_107599_11415554	NC_021167.1	Ca_kabuli_chr08	11415554	GG	AA	1946908892
SNP_P4_107600_11415573	NC_021167.1	Ca_kabuli_chr08	11415573	GG	AA	1946908894
SNP_P4_107601_11421691	NC_021167.1	Ca_kabuli_chr08	11421691	AA	GG	1946908896
SNP_P4_107602_11422533	NC_021167.1	Ca_kabuli_chr08	11422533	AA	TT	1946908899
SNP_P4_107603_11422569	NC_021167.1	Ca_kabuli_chr08	11422569	GG	AA	1946908901
SNP_P4_107604_11422581	NC_021167.1	Ca_kabuli_chr08	11422581	AA	CC	1946908903
SNP_P4_107605_11422612	NC_021167.1	Ca_kabuli_chr08	11422612	GG	AA	1946908905
SNP_P4_107606_11422721	NC_021167.1	Ca_kabuli_chr08	11422721	AA	GG	1946908907
SNP_P4_107607_11422810	NC_021167.1	Ca_kabuli_chr08	11422810	CC	TT	1946908909

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_107609_11442612	NC_021167.1	Ca_kabuli_chr08	11442612	AA	GG	1946908914
SNP_P4_107610_11442950	NC_021167.1	Ca_kabuli_chr08	11442950	TT	GG	1946908916
SNP_P4_107611_11448882	NC_021167.1	Ca_kabuli_chr08	11448882	AA	CC	1946908918
SNP_P4_107612_11448950	NC_021167.1	Ca_kabuli_chr08	11448950	GG	AA	1946908920
SNP_P4_107613_11448972	NC_021167.1	Ca_kabuli_chr08	11448972	AA	CC	1946908922
SNP_P4_107614_11449290	NC_021167.1	Ca_kabuli_chr08	11449290	AA	GG	1946908924
SNP_P4_107615_11449296	NC_021167.1	Ca_kabuli_chr08	11449296	GG	AA	1946908927
SNP_P4_107616_11449406	NC_021167.1	Ca_kabuli_chr08	11449406	CC	GG	1946908929
SNP_P4_107618_11450163	NC_021167.1	Ca_kabuli_chr08	11450163	TT	GG	1946908931
SNP_P4_107619_11458531	NC_021167.1	Ca_kabuli_chr08	11458531	TT	CC	1946908933
SNP_P4_107620_11458536	NC_021167.1	Ca_kabuli_chr08	11458536	TT	CC	1946908935
SNP_P4_107621_11458537	NC_021167.1	Ca_kabuli_chr08	11458537	GG	AA	1946908938
SNP_P4_107622_11458565	NC_021167.1	Ca_kabuli_chr08	11458565	CC	TT	1946908940
SNP_P4_107623_11458601	NC_021167.1	Ca_kabuli_chr08	11458601	GG	AA	1946908942
SNP_P4_107624_11458624	NC_021167.1	Ca_kabuli_chr08	11458624	AA	TT	1946908944
SNP_P4_107625_11458647	NC_021167.1	Ca_kabuli_chr08	11458647	AA	GG	1946908946
SNP_P4_107626_11463337	NC_021167.1	Ca_kabuli_chr08	11463337	TT	CC	1946908948
SNP_P4_107627_11464428	NC_021167.1	Ca_kabuli_chr08	11464428	CC	AA	1946908950
SNP_P4_107628_11464573	NC_021167.1	Ca_kabuli_chr08	11464573	TT	CC	1946908952
SNP_P4_107629_11466154	NC_021167.1	Ca_kabuli_chr08	11466154	CC	GG	1946908954
SNP_P4_107630_11466351	NC_021167.1	Ca_kabuli_chr08	11466351	CC	TT	1946908956
SNP_P4_107631_11497232	NC_021167.1	Ca_kabuli_chr08	11497232	AA	CC	1946908959
SNP_P4_107633_11523118	NC_021167.1	Ca_kabuli_chr08	11523118	TT	GG	1946908961
SNP_P4_107634_11528288	NC_021167.1	Ca_kabuli_chr08	11528288	GG	AA	1946908963
SNP_P4_107635_11530316	NC_021167.1	Ca_kabuli_chr08	11530316	GG	TT	1946908965
SNP_P4_107637_11545479	NC_021167.1	Ca_kabuli_chr08	11545479	TT	AA	1946908967
SNP_P4_107641_11600517	NC_021167.1	Ca_kabuli_chr08	11600517	CC	TT	1946908969
SNP_P4_107642_11603897	NC_021167.1	Ca_kabuli_chr08	11603897	GG	TT	1946908971
SNP_P4_107643_11604106	NC_021167.1	Ca_kabuli_chr08	11604106	CC	TT	1946908973
SNP_P4_107644_11604157	NC_021167.1	Ca_kabuli_chr08	11604157	AA	GG	1946908975
SNP_P4_107645_11604167	NC_021167.1	Ca_kabuli_chr08	11604167	TT	AA	1946908977
SNP_P4_107646_11604991	NC_021167.1	Ca_kabuli_chr08	11604991	AA	GG	1946908979
SNP_P4_107647_11605010	NC_021167.1	Ca_kabuli_chr08	11605010	CC	TT	1946908981
SNP_P4_107648_11605201	NC_021167.1	Ca_kabuli_chr08	11605201	CC	TT	1946908983
SNP_P4_107649_11605202	NC_021167.1	Ca_kabuli_chr08	11605202	TT	GG	1946908985
SNP_P4_107650_11605213	NC_021167.1	Ca_kabuli_chr08	11605213	TT	AA	1946908987
SNP_P4_107651_11605246	NC_021167.1	Ca_kabuli_chr08	11605246	TT	GG	1946908989
SNP_P4_107652_11605247	NC_021167.1	Ca_kabuli_chr08	11605247	AA	TT	1946908991
SNP_P4_107653_11605311	NC_021167.1	Ca_kabuli_chr08	11605311	GG	TT	1946908993
SNP_P4_107654_11605315	NC_021167.1	Ca_kabuli_chr08	11605315	AA	TT	1946908995
SNP_P4_107655_11605316	NC_021167.1	Ca_kabuli_chr08	11605316	GG	AA	1946908997

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_107657_11730909	NC_021167.1	Ca_kabuli_chr08	11730909	CC	GG	1946909001
SNP_P4_107658_11731497	NC_021167.1	Ca_kabuli_chr08	11731497	TT	CC	1946909003
SNP_P4_107660_11757371	NC_021167.1	Ca_kabuli_chr08	11757371	AA	GG	1946909005
SNP_P4_107661_11757482	NC_021167.1	Ca_kabuli_chr08	11757482	TT	CC	1946909007
SNP_P4_107664_11778000	NC_021167.1	Ca_kabuli_chr08	11778000	TT	CC	1946909009
SNP_P4_107666_11806085	NC_021167.1	Ca_kabuli_chr08	11806085	TT	AA	1946909011
SNP_P4_107667_11848456	NC_021167.1	Ca_kabuli_chr08	11848456	CC	TT	1946909013
SNP_P4_107668_11848476	NC_021167.1	Ca_kabuli_chr08	11848476	TT	GG	1946909015
SNP_P4_107669_11911562	NC_021167.1	Ca_kabuli_chr08	11911562	TT	CC	1946909017
SNP_P4_107670_11921424	NC_021167.1	Ca_kabuli_chr08	11921424	AA	GG	1946909019
SNP_P4_107671_11921442	NC_021167.1	Ca_kabuli_chr08	11921442	AA	TT	1946909021
SNP_P4_107672_11921782	NC_021167.1	Ca_kabuli_chr08	11921782	TT	CC	1946909023
SNP_P4_107673_11921815	NC_021167.1	Ca_kabuli_chr08	11921815	TT	CC	1946909025
SNP_P4_107674_11921848	NC_021167.1	Ca_kabuli_chr08	11921848	TT	CC	1946909027
SNP_P4_107675_11921918	NC_021167.1	Ca_kabuli_chr08	11921918	TT	CC	1946909029
SNP_P4_107676_11921947	NC_021167.1	Ca_kabuli_chr08	11921947	AA	CC	1946909031
SNP_P4_107677_11926203	NC_021167.1	Ca_kabuli_chr08	11926203	CC	TT	1946909033
SNP_P4_107678_11927071	NC_021167.1	Ca_kabuli_chr08	11927071	CC	TT	1946909035
SNP_P4_107679_11927219	NC_021167.1	Ca_kabuli_chr08	11927219	TT	CC	1946909037
SNP_P4_107680_11927623	NC_021167.1	Ca_kabuli_chr08	11927623	TT	CC	1946909039
SNP_P4_107681_11939207	NC_021167.1	Ca_kabuli_chr08	11939207	CC	AA	1946909041
SNP_P4_107683_11955482	NC_021167.1	Ca_kabuli_chr08	11955482	CC	TT	1946909043
SNP_P4_107684_11955645	NC_021167.1	Ca_kabuli_chr08	11955645	CC	TT	1946909045
SNP_P4_107686_11968846	NC_021167.1	Ca_kabuli_chr08	11968846	AA	GG	1946909047
SNP_P4_107687_11968858	NC_021167.1	Ca_kabuli_chr08	11968858	CC	TT	1946909049
SNP_P4_107688_11968909	NC_021167.1	Ca_kabuli_chr08	11968909	TT	CC	1946909051
SNP_P4_107689_11968923	NC_021167.1	Ca_kabuli_chr08	11968923	TT	CC	1946909053
SNP_P4_107690_11968938	NC_021167.1	Ca_kabuli_chr08	11968938	CC	TT	1946909055
SNP_P4_107691_11969024	NC_021167.1	Ca_kabuli_chr08	11969024	CC	AA	1946909057
SNP_P4_107692_11969073	NC_021167.1	Ca_kabuli_chr08	11969073	TT	AA	1946909059
SNP_P4_107693_11969201	NC_021167.1	Ca_kabuli_chr08	11969201	TT	CC	1946909061
SNP_P4_107694_11969474	NC_021167.1	Ca_kabuli_chr08	11969474	CC	AA	1946909063
SNP_P4_107695_11969487	NC_021167.1	Ca_kabuli_chr08	11969487	CC	AA	1946909065
SNP_P4_107696_11969493	NC_021167.1	Ca_kabuli_chr08	11969493	CC	TT	1946909067
SNP_P4_107697_11975440	NC_021167.1	Ca_kabuli_chr08	11975440	TT	CC	1946909069
SNP_P4_107699_11975718	NC_021167.1	Ca_kabuli_chr08	11975718	CC	GG	1946909071
SNP_P4_107700_11975784	NC_021167.1	Ca_kabuli_chr08	11975784	AA	TT	1946909073
SNP_P4_107701_11975810	NC_021167.1	Ca_kabuli_chr08	11975810	GG	CC	1946909075
SNP_P4_107702_11975895	NC_021167.1	Ca_kabuli_chr08	11975895	AA	GG	1946909077
SNP_P4_107704_11976024	NC_021167.1	Ca_kabuli_chr08	11976024	GG	AA	1946909079
SNP_P4_107705_11976252	NC_021167.1	Ca_kabuli_chr08	11976252	AA	TT	1946909081

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_107707_11976543	NC_021167.1	Ca_kabuli_chr08	11976543	CC	TT	1946909085
SNP_P4_107708_11976878	NC_021167.1	Ca_kabuli_chr08	11976878	CC	TT	1946909087
SNP_P4_107709_11979474	NC_021167.1	Ca_kabuli_chr08	11979474	GG	AA	1946909089
SNP_P4_107710_11979781	NC_021167.1	Ca_kabuli_chr08	11979781	AA	TT	1946909091
SNP_P4_107711_11979785	NC_021167.1	Ca_kabuli_chr08	11979785	GG	AA	1946909093
SNP_P4_107712_11986056	NC_021167.1	Ca_kabuli_chr08	11986056	GG	AA	1946909095
SNP_P4_107713_11992763	NC_021167.1	Ca_kabuli_chr08	11992763	CC	AA	1946909097
SNP_P4_107714_11992934	NC_021167.1	Ca_kabuli_chr08	11992934	TT	CC	1946909099
SNP_P4_107715_11992956	NC_021167.1	Ca_kabuli_chr08	11992956	GG	AA	1946909101
SNP_P4_107716_11993008	NC_021167.1	Ca_kabuli_chr08	11993008	GG	AA	1946909103
SNP_P4_107718_11993204	NC_021167.1	Ca_kabuli_chr08	11993204	CC	AA	1946909105
SNP_P4_107719_11993264	NC_021167.1	Ca_kabuli_chr08	11993264	GG	AA	1946909107
SNP_P4_107720_11993277	NC_021167.1	Ca_kabuli_chr08	11993277	TT	AA	1946909109
SNP_P4_107722_12021832	NC_021167.1	Ca_kabuli_chr08	12021832	AA	GG	1946909111
SNP_P4_107723_12045291	NC_021167.1	Ca_kabuli_chr08	12045291	AA	CC	1946909113
SNP_P4_107724_12045297	NC_021167.1	Ca_kabuli_chr08	12045297	AA	TT	1946909115
SNP_P4_107725_12046409	NC_021167.1	Ca_kabuli_chr08	12046409	GG	CC	1946909117
SNP_P4_107726_12048281	NC_021167.1	Ca_kabuli_chr08	12048281	AA	CC	1946909119
SNP_P4_107728_12048556	NC_021167.1	Ca_kabuli_chr08	12048556	CC	TT	1946909122
SNP_P4_107729_12048590	NC_021167.1	Ca_kabuli_chr08	12048590	AA	GG	1946909124
SNP_P4_107731_12048748	NC_021167.1	Ca_kabuli_chr08	12048748	AA	GG	1946909126
SNP_P4_107732_12048776	NC_021167.1	Ca_kabuli_chr08	12048776	CC	AA	1946909128
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SNP_P4_107734_12048821	NC_021167.1	Ca_kabuli_chr08	12048821	AA	GG	1946909132
SNP_P4_107735_12056308	NC_021167.1	Ca_kabuli_chr08	12056308	TT	CC	1946909134
SNP_P4_107736_12056430	NC_021167.1	Ca_kabuli_chr08	12056430	TT	AA	1946909136
SNP_P4_107737_12056463	NC_021167.1	Ca_kabuli_chr08	12056463	AA	GG	1946909138
SNP_P4_107739_12056567	NC_021167.1	Ca_kabuli_chr08	12056567	GG	TT	1946909140
SNP_P4_107740_12056696	NC_021167.1	Ca_kabuli_chr08	12056696	AA	TT	1946909142
SNP_P4_107741_12058369	NC_021167.1	Ca_kabuli_chr08	12058369	CC	AA	1946909144
SNP_P4_107742_12062307	NC_021167.1	Ca_kabuli_chr08	12062307	TT	CC	1946909146
SNP_P4_107743_12067937	NC_021167.1	Ca_kabuli_chr08	12067937	GG	AA	1946909148
SNP_P4_107744_12070536	NC_021167.1	Ca_kabuli_chr08	12070536	GG	TT	1946909150
SNP_P4_107745_12082228	NC_021167.1	Ca_kabuli_chr08	12082228	TT	GG	1946909152
SNP_P4_107746_12086109	NC_021167.1	Ca_kabuli_chr08	12086109	AA	GG	1946909155
SNP_P4_107747_12087523	NC_021167.1	Ca_kabuli_chr08	12087523	GG	AA	1946909157
SNP_P4_107748_12087530	NC_021167.1	Ca_kabuli_chr08	12087530	AA	CC	1946909159
SNP_P4_107750_12807637	NC_021167.1	Ca_kabuli_chr08	12807637	AA	CC	1946909161
SNP_P4_107751_12818311	NC_021167.1	Ca_kabuli_chr08	12818311	AA	TT	1946909163
SNP_P4_107752_12818384	NC_021167.1	Ca_kabuli_chr08	12818384	CC	TT	1946909165
SNP_P4_107753_12818385	NC_021167.1	Ca_kabuli_chr08	12818385	TT	GG	1946909167

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_107755_12843914	NC_021167.1	Ca_kabuli_chr08	12843914	TT	CC	1946909172
SNP_P4_107756_12871893	NC_021167.1	Ca_kabuli_chr08	12871893	GG	TT	1946909174
SNP_P4_107758_12878103	NC_021167.1	Ca_kabuli_chr08	12878103	AA	CC	1946909176
SNP_P4_107759_12878107	NC_021167.1	Ca_kabuli_chr08	12878107	TT	GG	1946909178
SNP_P4_107760_12966279	NC_021167.1	Ca_kabuli_chr08	12966279	CC	TT	1946909180
SNP_P4_107761_12978770	NC_021167.1	Ca_kabuli_chr08	12978770	AA	CC	1946909182
SNP_P4_107762_12978829	NC_021167.1	Ca_kabuli_chr08	12978829	GG	TT	1946909184
SNP_P4_107763_12978851	NC_021167.1	Ca_kabuli_chr08	12978851	AA	GG	1946909186
SNP_P4_107764_12978883	NC_021167.1	Ca_kabuli_chr08	12978883	AA	GG	1946909189
SNP_P4_107765_12978958	NC_021167.1	Ca_kabuli_chr08	12978958	CC	AA	1946909191
SNP_P4_107768_12979086	NC_021167.1	Ca_kabuli_chr08	12979086	CC	GG	1946909193
SNP_P4_107769_12979106	NC_021167.1	Ca_kabuli_chr08	12979106	AA	TT	1946909195
SNP_P4_107770_12979119	NC_021167.1	Ca_kabuli_chr08	12979119	CC	AA	1946909197
SNP_P4_107771_12979161	NC_021167.1	Ca_kabuli_chr08	12979161	CC	TT	1946909199
SNP_P4_107772_12979166	NC_021167.1	Ca_kabuli_chr08	12979166	AA	GG	1946909201
SNP_P4_107773_12979204	NC_021167.1	Ca_kabuli_chr08	12979204	TT	CC	1946909203
SNP_P4_107774_12979252	NC_021167.1	Ca_kabuli_chr08	12979252	AA	TT	1946909205
SNP_P4_107775_12979296	NC_021167.1	Ca_kabuli_chr08	12979296	TT	GG	1946909207
SNP_P4_107776_12979338	NC_021167.1	Ca_kabuli_chr08	12979338	AA	GG	1946909209
SNP_P4_107777_12979367	NC_021167.1	Ca_kabuli_chr08	12979367	TT	CC	1946909211
SNP_P4_107778_12979513	NC_021167.1	Ca_kabuli_chr08	12979513	AA	GG	1946909213
SNP_P4_107779_12979573	NC_021167.1	Ca_kabuli_chr08	12979573	CC	GG	1946909215
SNP_P4_107780_12979615	NC_021167.1	Ca_kabuli_chr08	12979615	TT	GG	1946909217
SNP_P4_107781_12979772	NC_021167.1	Ca_kabuli_chr08	12979772	TT	CC	1946909220
SNP_P4_107782_12979826	NC_021167.1	Ca_kabuli_chr08	12979826	TT	GG	1946909221
SNP_P4_107783_12979882	NC_021167.1	Ca_kabuli_chr08	12979882	TT	CC	1946909222
SNP_P4_107784_12979943	NC_021167.1	Ca_kabuli_chr08	12979943	CC	GG	1946909223
SNP_P4_107785_12979947	NC_021167.1	Ca_kabuli_chr08	12979947	GG	AA	1946909224
SNP_P4_107786_12980029	NC_021167.1	Ca_kabuli_chr08	12980029	AA	GG	1946909225
SNP_P4_107787_12980036	NC_021167.1	Ca_kabuli_chr08	12980036	AA	GG	1946909226
SNP_P4_107788_12980043	NC_021167.1	Ca_kabuli_chr08	12980043	AA	CC	1946909227
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SNP_P4_107790_12980506	NC_021167.1	Ca_kabuli_chr08	12980506	AA	GG	1946909229
SNP_P4_107791_12980538	NC_021167.1	Ca_kabuli_chr08	12980538	CC	TT	1946909230
SNP_P4_107792_12980632	NC_021167.1	Ca_kabuli_chr08	12980632	GG	CC	1946909231
SNP_P4_107793_12980656	NC_021167.1	Ca_kabuli_chr08	12980656	TT	CC	1946909232
SNP_P4_107794_12980711	NC_021167.1	Ca_kabuli_chr08	12980711	CC	TT	1946909233
SNP_P4_107795_12980880	NC_021167.1	Ca_kabuli_chr08	12980880	AA	GG	1946909234
SNP_P4_107796_12980927	NC_021167.1	Ca_kabuli_chr08	12980927	CC	TT	1946909235
SNP_P4_107797_12981045	NC_021167.1	Ca_kabuli_chr08	12981045	CC	TT	1946909236
SNP_P4_107798_12982752	NC_021167.1	Ca_kabuli_chr08	12982752	AA	GG	1946909237

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_107800_12983429	NC_021167.1	Ca_kabuli_chr08	12983429	CC	TT	1946909239
SNP_P4_107801_12983450	NC_021167.1	Ca_kabuli_chr08	12983450	CC	TT	1946909240
SNP_P4_107803_12983506	NC_021167.1	Ca_kabuli_chr08	12983506	AA	CC	1946909241
SNP_P4_107804_12983529	NC_021167.1	Ca_kabuli_chr08	12983529	AA	GG	1946909242
SNP_P4_107805_12983626	NC_021167.1	Ca_kabuli_chr08	12983626	TT	CC	1946909243
SNP_P4_107806_12983705	NC_021167.1	Ca_kabuli_chr08	12983705	AA	GG	1946909244
SNP_P4_107807_12983740	NC_021167.1	Ca_kabuli_chr08	12983740	TT	AA	1946909245
SNP_P4_107808_12983762	NC_021167.1	Ca_kabuli_chr08	12983762	CC	TT	1946909246
SNP_P4_107809_12983803	NC_021167.1	Ca_kabuli_chr08	12983803	CC	TT	1946909247
SNP_P4_107810_12983854	NC_021167.1	Ca_kabuli_chr08	12983854	CC	AA	1946909248
SNP_P4_107811_12983884	NC_021167.1	Ca_kabuli_chr08	12983884	CC	TT	1946909249
SNP_P4_107813_12984004	NC_021167.1	Ca_kabuli_chr08	12984004	AA	GG	1946909250
SNP_P4_107814_12984030	NC_021167.1	Ca_kabuli_chr08	12984030	GG	AA	1946909251
SNP_P4_107815_12984031	NC_021167.1	Ca_kabuli_chr08	12984031	GG	AA	1946909252
SNP_P4_107816_12984089	NC_021167.1	Ca_kabuli_chr08	12984089	CC	AA	1946909253
SNP_P4_107817_12984090	NC_021167.1	Ca_kabuli_chr08	12984090	AA	CC	1946909254
SNP_P4_107819_12984113	NC_021167.1	Ca_kabuli_chr08	12984113	AA	TT	1946909255
SNP_P4_107820_12984150	NC_021167.1	Ca_kabuli_chr08	12984150	TT	CC	1946909256
SNP_P4_107821_12984201	NC_021167.1	Ca_kabuli_chr08	12984201	CC	TT	1946909257
SNP_P4_107822_12984293	NC_021167.1	Ca_kabuli_chr08	12984293	AA	GG	1946909258
SNP_P4_107823_12984359	NC_021167.1	Ca_kabuli_chr08	12984359	AA	GG	1946909259
SNP_P4_107824_12984375	NC_021167.1	Ca_kabuli_chr08	12984375	TT	CC	1946909260
SNP_P4_107825_12984390	NC_021167.1	Ca_kabuli_chr08	12984390	TT	CC	1946909261
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SNP_P4_107828_12984734	NC_021167.1	Ca_kabuli_chr08	12984734	AA	TT	1946909264
SNP_P4_107829_12984782	NC_021167.1	Ca_kabuli_chr08	12984782	TT	CC	1946909265
SNP_P4_107830_12984791	NC_021167.1	Ca_kabuli_chr08	12984791	CC	GG	1946909266
SNP_P4_107831_12984886	NC_021167.1	Ca_kabuli_chr08	12984886	CC	TT	1946909267
SNP_P4_107832_12984943	NC_021167.1	Ca_kabuli_chr08	12984943	GG	AA	1946909268
SNP_P4_107833_12984953	NC_021167.1	Ca_kabuli_chr08	12984953	CC	TT	1946909269
SNP_P4_107834_12984971	NC_021167.1	Ca_kabuli_chr08	12984971	AA	GG	1946909270
SNP_P4_107835_12984994	NC_021167.1	Ca_kabuli_chr08	12984994	GG	CC	1946909271
SNP_P4_107836_12985038	NC_021167.1	Ca_kabuli_chr08	12985038	AA	CC	1946909272
SNP_P4_107837_12985058	NC_021167.1	Ca_kabuli_chr08	12985058	TT	CC	1946909273
SNP_P4_107838_12985109	NC_021167.1	Ca_kabuli_chr08	12985109	TT	AA	1946909274
SNP_P4_107839_12985116	NC_021167.1	Ca_kabuli_chr08	12985116	AA	GG	1946909275
SNP_P4_107840_12985121	NC_021167.1	Ca_kabuli_chr08	12985121	TT	CC	1946909276
SNP_P4_107841_12985151	NC_021167.1	Ca_kabuli_chr08	12985151	AA	CC	1946909277
SNP_P4_107842_12985289	NC_021167.1	Ca_kabuli_chr08	12985289	GG	CC	1946909278
SNP_P4_107844_12985350	NC_021167.1	Ca_kabuli_chr08	12985350	AA	GG	1946909279

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_107847_12985661	NC_021167.1	Ca_kabuli_chr08	12985661	CC	TT	1946909282
SNP_P4_107848_12985762	NC_021167.1	Ca_kabuli_chr08	12985762	AA	GG	1946909283
SNP_P4_107849_12986964	NC_021167.1	Ca_kabuli_chr08	12986964	AA	CC	1946909284
SNP_P4_107850_12987186	NC_021167.1	Ca_kabuli_chr08	12987186	CC	TT	1946909285
SNP_P4_107851_12987197	NC_021167.1	Ca_kabuli_chr08	12987197	CC	TT	1946909287
SNP_P4_107852_12987250	NC_021167.1	Ca_kabuli_chr08	12987250	GG	TT	1946909288
SNP_P4_107853_12987314	NC_021167.1	Ca_kabuli_chr08	12987314	TT	GG	1946909290
SNP_P4_107854_12987355	NC_021167.1	Ca_kabuli_chr08	12987355	TT	CC	1946909292
SNP_P4_107855_12987382	NC_021167.1	Ca_kabuli_chr08	12987382	CC	TT	1946909294
SNP_P4_107856_12987420	NC_021167.1	Ca_kabuli_chr08	12987420	CC	TT	1946909296
SNP_P4_107857_12987435	NC_021167.1	Ca_kabuli_chr08	12987435	GG	AA	1946909298
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SNP_P4_107859_12987587	NC_021167.1	Ca_kabuli_chr08	12987587	GG	AA	1946909303
SNP_P4_107860_12987628	NC_021167.1	Ca_kabuli_chr08	12987628	TT	AA	1946909305
SNP_P4_107861_12987713	NC_021167.1	Ca_kabuli_chr08	12987713	GG	AA	1946909307
SNP_P4_107862_12987737	NC_021167.1	Ca_kabuli_chr08	12987737	CC	TT	1946909309
SNP_P4_107863_12987754	NC_021167.1	Ca_kabuli_chr08	12987754	AA	GG	1946909311
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SNP_P4_107867_12987812	NC_021167.1	Ca_kabuli_chr08	12987812	TT	CC	1946909319
SNP_P4_107868_12987902	NC_021167.1	Ca_kabuli_chr08	12987902	CC	TT	1946909321
SNP_P4_107869_12987950	NC_021167.1	Ca_kabuli_chr08	12987950	TT	CC	1946909323
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SNP_P4_107873_12988095	NC_021167.1	Ca_kabuli_chr08	12988095	AA	GG	1946909331
SNP_P4_107874_12988115	NC_021167.1	Ca_kabuli_chr08	12988115	AA	GG	1946909333
SNP_P4_107875_12988135	NC_021167.1	Ca_kabuli_chr08	12988135	TT	GG	1946909335
SNP_P4_107876_12988200	NC_021167.1	Ca_kabuli_chr08	12988200	CC	TT	1946909337
SNP_P4_107877_12988271	NC_021167.1	Ca_kabuli_chr08	12988271	AA	TT	1946909339
SNP_P4_107878_12988422	NC_021167.1	Ca_kabuli_chr08	12988422	TT	CC	1946909341
SNP_P4_107879_12988499	NC_021167.1	Ca_kabuli_chr08	12988499	TT	GG	1946909343
SNP_P4_107880_12988543	NC_021167.1	Ca_kabuli_chr08	12988543	AA	TT	1946909345
SNP_P4_107882_12988665	NC_021167.1	Ca_kabuli_chr08	12988665	CC	TT	1946909347
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SNP_P4_107884_12988844	NC_021167.1	Ca_kabuli_chr08	12988844	GG	AA	1946909351
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SNP_P4_107886_12988987	NC_021167.1	Ca_kabuli_chr08	12988987	GG	CC	1946909355
SNP_P4_107887_12989033	NC_021167.1	Ca_kabuli_chr08	12989033	CC	TT	1946909357

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_107890_12989102	NC_021167.1	Ca_kabuli_chr08	12989102	AA	GG	1946909363
SNP_P4_107891_12989143	NC_021167.1	Ca_kabuli_chr08	12989143	CC	TT	1946909365
SNP_P4_107892_12989172	NC_021167.1	Ca_kabuli_chr08	12989172	AA	GG	1946909367
SNP_P4_107893_12989221	NC_021167.1	Ca_kabuli_chr08	12989221	TT	AA	1946909369
SNP_P4_107894_12989252	NC_021167.1	Ca_kabuli_chr08	12989252	TT	AA	1946909371
SNP_P4_107895_12989285	NC_021167.1	Ca_kabuli_chr08	12989285	GG	AA	1946909373
SNP_P4_107896_12989403	NC_021167.1	Ca_kabuli_chr08	12989403	TT	CC	1946909375
SNP_P4_107897_12989412	NC_021167.1	Ca_kabuli_chr08	12989412	AA	GG	1946909377
SNP_P4_107898_12989811	NC_021167.1	Ca_kabuli_chr08	12989811	GG	AA	1946909379
SNP_P4_107899_12989834	NC_021167.1	Ca_kabuli_chr08	12989834	TT	AA	1946909381
SNP_P4_107900_12989855	NC_021167.1	Ca_kabuli_chr08	12989855	AA	GG	1946909383
SNP_P4_107902_12990058	NC_021167.1	Ca_kabuli_chr08	12990058	CC	GG	1946909385
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SNP_P4_107904_12998626	NC_021167.1	Ca_kabuli_chr08	12998626	TT	CC	1946909389
SNP_P4_107905_12998696	NC_021167.1	Ca_kabuli_chr08	12998696	TT	AA	1946909391
SNP_P4_107907_12998764	NC_021167.1	Ca_kabuli_chr08	12998764	AA	CC	1946909393
SNP_P4_107908_12998841	NC_021167.1	Ca_kabuli_chr08	12998841	CC	GG	1946909395
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SNP_P4_107919_13001359	NC_021167.1	Ca_kabuli_chr08	13001359	AA	GG	1946909417
SNP_P4_107920_13001457	NC_021167.1	Ca_kabuli_chr08	13001457	CC	TT	1946909419
SNP_P4_107921_13001855	NC_021167.1	Ca_kabuli_chr08	13001855	GG	TT	1946909421
SNP_P4_107922_13005589	NC_021167.1	Ca_kabuli_chr08	13005589	AA	GG	1946909423
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SNP_P4_107926_13010722	NC_021167.1	Ca_kabuli_chr08	13010722	CC	TT	1946909431
SNP_P4_107927_13018652	NC_021167.1	Ca_kabuli_chr08	13018652	GG	AA	1946909433
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SNP_P4_107929_13025011	NC_021167.1	Ca_kabuli_chr08	13025011	TT	AA	1946909437
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SNP_P4_107931_13061101	NC_021167.1	Ca_kabuli_chr08	13061101	CC	AA	1946909442

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_107936_13101385	NC_021167.1	Ca_kabuli_chr08	13101385	AA	CC	1946909450
SNP_P4_107937_13101413	NC_021167.1	Ca_kabuli_chr08	13101413	AA	GG	1946909452
SNP_P4_107938_13102074	NC_021167.1	Ca_kabuli_chr08	13102074	AA	GG	1946909454
SNP_P4_107939_13103664	NC_021167.1	Ca_kabuli_chr08	13103664	AA	GG	1946909456
SNP_P4_107940_13106880	NC_021167.1	Ca_kabuli_chr08	13106880	GG	TT	1946909458
SNP_P4_107943_13268753	NC_021167.1	Ca_kabuli_chr08	13268753	AA	GG	1946909460
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SNP_P4_107945_13277507	NC_021167.1	Ca_kabuli_chr08	13277507	TT	AA	1946909464
SNP_P4_107946_13297006	NC_021167.1	Ca_kabuli_chr08	13297006	AA	CC	1946909466
SNP_P4_107947_13297017	NC_021167.1	Ca_kabuli_chr08	13297017	TT	CC	1946909468
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SNP_P4_107950_13297373	NC_021167.1	Ca_kabuli_chr08	13297373	CC	GG	1946909474
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SNP_P4_107960_13298057	NC_021167.1	Ca_kabuli_chr08	13298057	GG	AA	1946909493
SNP_P4_107961_13298116	NC_021167.1	Ca_kabuli_chr08	13298116	TT	CC	1946909495
SNP_P4_107962_13298200	NC_021167.1	Ca_kabuli_chr08	13298200	AA	TT	1946909497
SNP_P4_107963_13298206	NC_021167.1	Ca_kabuli_chr08	13298206	TT	AA	1946909499
SNP_P4_107965_13299094	NC_021167.1	Ca_kabuli_chr08	13299094	AA	CC	1946909501
SNP_P4_107966_13305167	NC_021167.1	Ca_kabuli_chr08	13305167	TT	CC	1946909503
SNP_P4_107967_13308277	NC_021167.1	Ca_kabuli_chr08	13308277	TT	GG	1946909505
SNP_P4_107968_13308638	NC_021167.1	Ca_kabuli_chr08	13308638	CC	TT	1946909507
SNP_P4_107969_13308653	NC_021167.1	Ca_kabuli_chr08	13308653	AA	CC	1946909509
SNP_P4_107970_13311065	NC_021167.1	Ca_kabuli_chr08	13311065	AA	CC	1946909511
SNP_P4_107971_13311095	NC_021167.1	Ca_kabuli_chr08	13311095	GG	CC	1946909513
SNP_P4_107972_13311103	NC_021167.1	Ca_kabuli_chr08	13311103	CC	TT	1946909515
SNP_P4_107973_13312912	NC_021167.1	Ca_kabuli_chr08	13312912	AA	CC	1946909517
SNP_P4_107974_13312913	NC_021167.1	Ca_kabuli_chr08	13312913	TT	AA	1946909519
SNP_P4_107975_13312930	NC_021167.1	Ca_kabuli_chr08	13312930	CC	TT	1946909521
SNP_P4_107976_13329419	NC_021167.1	Ca_kabuli_chr08	13329419	CC	TT	1946909523
SNP_P4_107978_13366946	NC_021167.1	Ca_kabuli_chr08	13366946	AA	CC	1946909525
SNP_P4_107979_13368761	NC_021167.1	Ca_kabuli_chr08	13368761	CC	AA	1946909527

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_107981_13369258	NC_021167.1	Ca_kabuli_chr08	13369258	AA	GG	1946909531
SNP_P4_107982_13369297	NC_021167.1	Ca_kabuli_chr08	13369297	AA	TT	1946909533
SNP_P4_107983_13369390	NC_021167.1	Ca_kabuli_chr08	13369390	AA	GG	1946909535
SNP_P4_107984_13369447	NC_021167.1	Ca_kabuli_chr08	13369447	AA	GG	1946909537
SNP_P4_107985_13369831	NC_021167.1	Ca_kabuli_chr08	13369831	AA	GG	1946909539
SNP_P4_107986_13369858	NC_021167.1	Ca_kabuli_chr08	13369858	GG	AA	1946909541
SNP_P4_107987_13369871	NC_021167.1	Ca_kabuli_chr08	13369871	AA	GG	1946909543
SNP_P4_107989_13438801	NC_021167.1	Ca_kabuli_chr08	13438801	AA	TT	1946909545
SNP_P4_107990_13458597	NC_021167.1	Ca_kabuli_chr08	13458597	GG	TT	1946909548
SNP_P4_107991_13475493	NC_021167.1	Ca_kabuli_chr08	13475493	TT	GG	1946909550
SNP_P4_107992_13475509	NC_021167.1	Ca_kabuli_chr08	13475509	GG	AA	1946909552
SNP_P4_107993_13475510	NC_021167.1	Ca_kabuli_chr08	13475510	TT	CC	1946909554
SNP_P4_107994_13475513	NC_021167.1	Ca_kabuli_chr08	13475513	TT	AA	1946909556
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SNP_P4_107996_13475561	NC_021167.1	Ca_kabuli_chr08	13475561	TT	AA	1946909560
SNP_P4_107997_13475564	NC_021167.1	Ca_kabuli_chr08	13475564	AA	GG	1946909562
SNP_P4_107998_13475571	NC_021167.1	Ca_kabuli_chr08	13475571	AA	GG	1946909564
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SNP_P4_108003_13702171	NC_021167.1	Ca_kabuli_chr08	13702171	TT	CC	1946909572
SNP_P4_108004_13702190	NC_021167.1	Ca_kabuli_chr08	13702190	AA	TT	1946909574
SNP_P4_108005_13702252	NC_021167.1	Ca_kabuli_chr08	13702252	TT	CC	1946909576
SNP_P4_108006_13702272	NC_021167.1	Ca_kabuli_chr08	13702272	CC	AA	1946909578
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SNP_P4_108008_13702596	NC_021167.1	Ca_kabuli_chr08	13702596	AA	GG	1946909582
SNP_P4_108010_13702608	NC_021167.1	Ca_kabuli_chr08	13702608	GG	AA	1946909584
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SNP_P4_108012_13705554	NC_021167.1	Ca_kabuli_chr08	13705554	TT	CC	1946909588
SNP_P4_108013_13705585	NC_021167.1	Ca_kabuli_chr08	13705585	AA	GG	1946909590
SNP_P4_108014_13705609	NC_021167.1	Ca_kabuli_chr08	13705609	TT	CC	1946909592
SNP_P4_108015_13714445	NC_021167.1	Ca_kabuli_chr08	13714445	AA	CC	1946909594
SNP_P4_108018_13722167	NC_021167.1	Ca_kabuli_chr08	13722167	CC	AA	1946909596
SNP_P4_108019_13722230	NC_021167.1	Ca_kabuli_chr08	13722230	AA	TT	1946909598
SNP_P4_108020_13723896	NC_021167.1	Ca_kabuli_chr08	13723896	AA	GG	1946909600
SNP_P4_108021_13727052	NC_021167.1	Ca_kabuli_chr08	13727052	AA	TT	1946909602
SNP_P4_108022_13727123	NC_021167.1	Ca_kabuli_chr08	13727123	TT	GG	1946909604
SNP_P4_108023_13727751	NC_021167.1	Ca_kabuli_chr08	13727751	TT	CC	1946909606
SNP_P4_108024_13727788	NC_021167.1	Ca_kabuli_chr08	13727788	AA	GG	1946909608
SNP_P4_108025_13727794	NC_021167.1	Ca_kabuli_chr08	13727794	CC	TT	1946909610
SNP_P4_108026_13727875	NC_021167.1	Ca_kabuli_chr08	13727875	CC	TT	1946909612

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_108028_13728019	NC_021167.1	Ca_kabuli_chr08	13728019	AA	GG	1946909616
SNP_P4_108029_13728022	NC_021167.1	Ca_kabuli_chr08	13728022	AA	GG	1946909618
SNP_P4_108030_13728161	NC_021167.1	Ca_kabuli_chr08	13728161	AA	GG	1946909620
SNP_P4_108031_13728174	NC_021167.1	Ca_kabuli_chr08	13728174	AA	GG	1946909622
SNP_P4_108032_13728204	NC_021167.1	Ca_kabuli_chr08	13728204	CC	TT	1946909624
SNP_P4_108033_13728276	NC_021167.1	Ca_kabuli_chr08	13728276	CC	TT	1946909626
SNP_P4_108034_13728285	NC_021167.1	Ca_kabuli_chr08	13728285	TT	CC	1946909628
SNP_P4_108035_13728330	NC_021167.1	Ca_kabuli_chr08	13728330	TT	GG	1946909630
SNP_P4_108036_13736583	NC_021167.1	Ca_kabuli_chr08	13736583	GG	AA	1946909632
SNP_P4_108037_13750262	NC_021167.1	Ca_kabuli_chr08	13750262	TT	CC	1946909634
SNP_P4_108038_13750280	NC_021167.1	Ca_kabuli_chr08	13750280	TT	CC	1946909636
SNP_P4_108039_13750328	NC_021167.1	Ca_kabuli_chr08	13750328	CC	TT	1946909638
SNP_P4_108040_13750339	NC_021167.1	Ca_kabuli_chr08	13750339	CC	GG	1946909640
SNP_P4_108041_13750352	NC_021167.1	Ca_kabuli_chr08	13750352	TT	AA	1946909642
SNP_P4_108042_13750356	NC_021167.1	Ca_kabuli_chr08	13750356	CC	TT	1946909644
SNP_P4_108043_13750404	NC_021167.1	Ca_kabuli_chr08	13750404	AA	GG	1946909647
SNP_P4_108045_13751683	NC_021167.1	Ca_kabuli_chr08	13751683	TT	CC	1946909649
SNP_P4_108046_13753623	NC_021167.1	Ca_kabuli_chr08	13753623	CC	TT	1946909651
SNP_P4_108048_13758316	NC_021167.1	Ca_kabuli_chr08	13758316	GG	AA	1946909653
SNP_P4_108049_13758735	NC_021167.1	Ca_kabuli_chr08	13758735	GG	AA	1946909655
SNP_P4_108050_13758737	NC_021167.1	Ca_kabuli_chr08	13758737	TT	CC	1946909657
SNP_P4_108051_13758747	NC_021167.1	Ca_kabuli_chr08	13758747	AA	TT	1946909659
SNP_P4_108052_13764278	NC_021167.1	Ca_kabuli_chr08	13764278	TT	GG	1946909661
SNP_P4_108053_13766603	NC_021167.1	Ca_kabuli_chr08	13766603	GG	AA	1946909663
SNP_P4_108055_13771555	NC_021167.1	Ca_kabuli_chr08	13771555	CC	TT	1946909665
SNP_P4_108056_13774524	NC_021167.1	Ca_kabuli_chr08	13774524	CC	TT	1946909667
SNP_P4_108057_13778822	NC_021167.1	Ca_kabuli_chr08	13778822	AA	GG	1946909669
SNP_P4_108058_13778834	NC_021167.1	Ca_kabuli_chr08	13778834	CC	TT	1946909671
SNP_P4_108059_13778862	NC_021167.1	Ca_kabuli_chr08	13778862	TT	AA	1946909673
SNP_P4_108060_13778863	NC_021167.1	Ca_kabuli_chr08	13778863	TT	CC	1946909675
SNP_P4_108061_13779189	NC_021167.1	Ca_kabuli_chr08	13779189	TT	CC	1946909677
SNP_P4_108062_13799609	NC_021167.1	Ca_kabuli_chr08	13799609	CC	TT	1946909680
SNP_P4_108063_13799657	NC_021167.1	Ca_kabuli_chr08	13799657	GG	AA	1946909682
SNP_P4_108064_13799753	NC_021167.1	Ca_kabuli_chr08	13799753	GG	AA	1946909684
SNP_P4_108065_13799792	NC_021167.1	Ca_kabuli_chr08	13799792	CC	TT	1946909686
SNP_P4_108066_13799873	NC_021167.1	Ca_kabuli_chr08	13799873	AA	CC	1946909688
SNP_P4_108067_13799882	NC_021167.1	Ca_kabuli_chr08	13799882	TT	CC	1946909690
SNP_P4_108068_13799894	NC_021167.1	Ca_kabuli_chr08	13799894	TT	CC	1946909691
SNP_P4_108069_13799921	NC_021167.1	Ca_kabuli_chr08	13799921	AA	GG	1946909693
SNP_P4_108070_13800048	NC_021167.1	Ca_kabuli_chr08	13800048	AA	CC	1946909695
SNP_P4_108071_13800049	NC_021167.1	Ca_kabuli_chr08	13800049	CC	TT	1946909697

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_108073_13802453	NC_021167.1	Ca_kabuli_chr08	13802453	AA	GG	1946909701
SNP_P4_108074_13802461	NC_021167.1	Ca_kabuli_chr08	13802461	AA	CC	1946909703
SNP_P4_108075_13802521	NC_021167.1	Ca_kabuli_chr08	13802521	AA	GG	1946909705
SNP_P4_108076_13813386	NC_021167.1	Ca_kabuli_chr08	13813386	GG	AA	1946909707
SNP_P4_108077_13813440	NC_021167.1	Ca_kabuli_chr08	13813440	AA	GG	1946909709
SNP_P4_108078_13813471	NC_021167.1	Ca_kabuli_chr08	13813471	GG	AA	1946909711
SNP_P4_108079_13813683	NC_021167.1	Ca_kabuli_chr08	13813683	TT	AA	1946909713
SNP_P4_108080_13813715	NC_021167.1	Ca_kabuli_chr08	13813715	CC	TT	1946909715
SNP_P4_108081_13813849	NC_021167.1	Ca_kabuli_chr08	13813849	AA	TT	1946909717
SNP_P4_108082_13813887	NC_021167.1	Ca_kabuli_chr08	13813887	AA	GG	1946909719
SNP_P4_108083_13813888	NC_021167.1	Ca_kabuli_chr08	13813888	GG	AA	1946909721
SNP_P4_108084_13813908	NC_021167.1	Ca_kabuli_chr08	13813908	CC	TT	1946909723
SNP_P4_108085_13814048	NC_021167.1	Ca_kabuli_chr08	13814048	AA	GG	1946909725
SNP_P4_108086_13814376	NC_021167.1	Ca_kabuli_chr08	13814376	CC	GG	1946909727
SNP_P4_108087_13814878	NC_021167.1	Ca_kabuli_chr08	13814878	CC	TT	1946909729
SNP_P4_108090_13815128	NC_021167.1	Ca_kabuli_chr08	13815128	AA	GG	1946909731
SNP_P4_108091_13815137	NC_021167.1	Ca_kabuli_chr08	13815137	CC	TT	1946909733
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SNP_P4_108094_13815198	NC_021167.1	Ca_kabuli_chr08	13815198	GG	AA	1946909739
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SNP_P4_108096_13815377	NC_021167.1	Ca_kabuli_chr08	13815377	TT	CC	1946909743
SNP_P4_108097_13815406	NC_021167.1	Ca_kabuli_chr08	13815406	CC	AA	1946909745
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SNP_P4_108100_13815479	NC_021167.1	Ca_kabuli_chr08	13815479	AA	CC	1946909751
SNP_P4_108101_13815524	NC_021167.1	Ca_kabuli_chr08	13815524	TT	AA	1946909753
SNP_P4_108102_13815530	NC_021167.1	Ca_kabuli_chr08	13815530	GG	AA	1946909755
SNP_P4_108103_13815533	NC_021167.1	Ca_kabuli_chr08	13815533	TT	AA	1946909757
SNP_P4_108104_13815590	NC_021167.1	Ca_kabuli_chr08	13815590	AA	GG	1946909759
SNP_P4_108105_13815604	NC_021167.1	Ca_kabuli_chr08	13815604	CC	TT	1946909761
SNP_P4_108106_13815624	NC_021167.1	Ca_kabuli_chr08	13815624	TT	CC	1946909763
SNP_P4_108107_13817357	NC_021167.1	Ca_kabuli_chr08	13817357	GG	AA	1946909765
SNP_P4_108109_13817387	NC_021167.1	Ca_kabuli_chr08	13817387	AA	TT	1946909767
SNP_P4_108110_13821638	NC_021167.1	Ca_kabuli_chr08	13821638	TT	CC	1946909769
SNP_P4_108111_13821674	NC_021167.1	Ca_kabuli_chr08	13821674	TT	CC	1946909771
SNP_P4_108112_13821691	NC_021167.1	Ca_kabuli_chr08	13821691	AA	GG	1946909773
SNP_P4_108113_13821849	NC_021167.1	Ca_kabuli_chr08	13821849	TT	CC	1946909776
SNP_P4_108114_13821871	NC_021167.1	Ca_kabuli_chr08	13821871	CC	TT	1946909778
SNP_P4_108115_13821899	NC_021167.1	Ca_kabuli_chr08	13821899	GG	AA	1946909780
SNP_P4_108116_13821906	NC_021167.1	Ca_kabuli_chr08	13821906	AA	TT	1946909782

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_108118_13833812	NC_021167.1	Ca_kabuli_chr08	13833812	GG	TT	1946909786
SNP_P4_108119_13833832	NC_021167.1	Ca_kabuli_chr08	13833832	GG	TT	1946909788
SNP_P4_108120_13834015	NC_021167.1	Ca_kabuli_chr08	13834015	GG	AA	1946909790
SNP_P4_108121_13834089	NC_021167.1	Ca_kabuli_chr08	13834089	AA	CC	1946909792
SNP_P4_108122_13834096	NC_021167.1	Ca_kabuli_chr08	13834096	AA	CC	1946909794
SNP_P4_108123_13834203	NC_021167.1	Ca_kabuli_chr08	13834203	TT	CC	1946909796
SNP_P4_108124_13834218	NC_021167.1	Ca_kabuli_chr08	13834218	CC	AA	1946909798
SNP_P4_108125_13834227	NC_021167.1	Ca_kabuli_chr08	13834227	AA	GG	1946909800
SNP_P4_108127_13848601	NC_021167.1	Ca_kabuli_chr08	13848601	AA	TT	1946909802
SNP_P4_108128_13861854	NC_021167.1	Ca_kabuli_chr08	13861854	AA	GG	1946909804
SNP_P4_108129_13870071	NC_021167.1	Ca_kabuli_chr08	13870071	AA	GG	1946909806
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SNP_P4_108134_13919124	NC_021167.1	Ca_kabuli_chr08	13919124	TT	CC	1946909812
SNP_P4_108135_13921376	NC_021167.1	Ca_kabuli_chr08	13921376	AA	CC	1946909814
SNP_P4_108136_13921380	NC_021167.1	Ca_kabuli_chr08	13921380	AA	GG	1946909816
SNP_P4_108137_13927305	NC_021167.1	Ca_kabuli_chr08	13927305	GG	AA	1946909818
SNP_P4_108138_13932711	NC_021167.1	Ca_kabuli_chr08	13932711	GG	TT	1946909820
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SNP_P4_108140_13939118	NC_021167.1	Ca_kabuli_chr08	13939118	AA	CC	1946909824
SNP_P4_108141_13980185	NC_021167.1	Ca_kabuli_chr08	13980185	AA	GG	1946909826
SNP_P4_108142_13980572	NC_021167.1	Ca_kabuli_chr08	13980572	AA	GG	1946909828
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SNP_P4_108145_13993529	NC_021167.1	Ca_kabuli_chr08	13993529	GG	AA	1946909834
SNP_P4_108146_13993554	NC_021167.1	Ca_kabuli_chr08	13993554	TT	CC	1946909837
SNP_P4_108147_13993565	NC_021167.1	Ca_kabuli_chr08	13993565	AA	GG	1946909839
SNP_P4_108148_13993589	NC_021167.1	Ca_kabuli_chr08	13993589	GG	CC	1946909841
SNP_P4_108150_13993667	NC_021167.1	Ca_kabuli_chr08	13993667	CC	TT	1946909843
SNP_P4_108151_13993680	NC_021167.1	Ca_kabuli_chr08	13993680	AA	TT	1946909845
SNP_P4_108152_13993696	NC_021167.1	Ca_kabuli_chr08	13993696	CC	TT	1946909847
SNP_P4_108153_13993703	NC_021167.1	Ca_kabuli_chr08	13993703	GG	AA	1946909849
SNP_P4_108154_13993725	NC_021167.1	Ca_kabuli_chr08	13993725	GG	CC	1946909851
SNP_P4_108155_13993768	NC_021167.1	Ca_kabuli_chr08	13993768	CC	TT	1946909853
SNP_P4_108156_13993847	NC_021167.1	Ca_kabuli_chr08	13993847	TT	CC	1946909855
SNP_P4_108158_13993976	NC_021167.1	Ca_kabuli_chr08	13993976	TT	CC	1946909857
SNP_P4_108159_13993995	NC_021167.1	Ca_kabuli_chr08	13993995	AA	TT	1946909859
SNP_P4_108160_13996264	NC_021167.1	Ca_kabuli_chr08	13996264	AA	GG	1946909861
SNP_P4_108161_14015931	NC_021167.1	Ca_kabuli_chr08	14015931	AA	GG	1946909863
SNP_P4_108162_14022351	NC_021167.1	Ca_kabuli_chr08	14022351	CC	TT	1946909865
SNP_P4_108163_14034673	NC_021167.1	Ca_kabuli_chr08	14034673	GG	CC	1946909867

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_108164_14035127	NC_021167.1	Ca_kabuli_chr08	14035127	TT	AA	1946909869
SNP_P4_108165_14035159	NC_021167.1	Ca_kabuli_chr08	14035159	AA	TT	1946909871
SNP_P4_108166_14035161	NC_021167.1	Ca_kabuli_chr08	14035161	TT	AA	1946909873
SNP_P4_108167_14035184	NC_021167.1	Ca_kabuli_chr08	14035184	TT	AA	1946909875
SNP_P4_108168_14035342	NC_021167.1	Ca_kabuli_chr08	14035342	CC	TT	1946909878
SNP_P4_108169_14035454	NC_021167.1	Ca_kabuli_chr08	14035454	TT	CC	1946909880
SNP_P4_108171_14035524	NC_021167.1	Ca_kabuli_chr08	14035524	GG	AA	1946909882
SNP_P4_108172_14035568	NC_021167.1	Ca_kabuli_chr08	14035568	AA	GG	1946909884
SNP_P4_108173_14035662	NC_021167.1	Ca_kabuli_chr08	14035662	CC	GG	1946909886
SNP_P4_108174_14035779	NC_021167.1	Ca_kabuli_chr08	14035779	CC	TT	1946909888
SNP_P4_108175_14035827	NC_021167.1	Ca_kabuli_chr08	14035827	AA	GG	1946909890
SNP_P4_108176_14035831	NC_021167.1	Ca_kabuli_chr08	14035831	GG	AA	1946909892
SNP_P4_108177_14036229	NC_021167.1	Ca_kabuli_chr08	14036229	TT	GG	1946909894
SNP_P4_108179_14040892	NC_021167.1	Ca_kabuli_chr08	14040892	AA	TT	1946909896
SNP_P4_108181_14063813	NC_021167.1	Ca_kabuli_chr08	14063813	AA	GG	1946909898
SNP_P4_108182_14063891	NC_021167.1	Ca_kabuli_chr08	14063891	AA	CC	1946909900
SNP_P4_108183_14063960	NC_021167.1	Ca_kabuli_chr08	14063960	GG	CC	1946909902
SNP_P4_108184_14063984	NC_021167.1	Ca_kabuli_chr08	14063984	CC	TT	1946909904
SNP_P4_108186_14064120	NC_021167.1	Ca_kabuli_chr08	14064120	TT	AA	1946909906
SNP_P4_108187_14064150	NC_021167.1	Ca_kabuli_chr08	14064150	GG	CC	1946909908
SNP_P4_108189_14064277	NC_021167.1	Ca_kabuli_chr08	14064277	GG	AA	1946909910
SNP_P4_108190_14064292	NC_021167.1	Ca_kabuli_chr08	14064292	AA	GG	1946909912
SNP_P4_108191_14064298	NC_021167.1	Ca_kabuli_chr08	14064298	CC	GG	1946909914
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SNP_P4_108193_14064325	NC_021167.1	Ca_kabuli_chr08	14064325	TT	AA	1946909918
SNP_P4_108194_14066725	NC_021167.1	Ca_kabuli_chr08	14066725	TT	CC	1946909921
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SNP_P4_108196_14072694	NC_021167.1	Ca_kabuli_chr08	14072694	CC	TT	1946909925
SNP_P4_108197_14072724	NC_021167.1	Ca_kabuli_chr08	14072724	AA	TT	1946909927
SNP_P4_108198_14072726	NC_021167.1	Ca_kabuli_chr08	14072726	CC	TT	1946909929
SNP_P4_108199_14072739	NC_021167.1	Ca_kabuli_chr08	14072739	AA	GG	1946909931
SNP_P4_108200_14072763	NC_021167.1	Ca_kabuli_chr08	14072763	TT	CC	1946909933
SNP_P4_108201_14072791	NC_021167.1	Ca_kabuli_chr08	14072791	CC	AA	1946909935
SNP_P4_108203_14072802	NC_021167.1	Ca_kabuli_chr08	14072802	AA	GG	1946909937
SNP_P4_108204_14072810	NC_021167.1	Ca_kabuli_chr08	14072810	CC	TT	1946909939
SNP_P4_108205_14072875	NC_021167.1	Ca_kabuli_chr08	14072875	CC	TT	1946909941
SNP_P4_108206_14072936	NC_021167.1	Ca_kabuli_chr08	14072936	CC	TT	1946909943
SNP_P4_108207_14072937	NC_021167.1	Ca_kabuli_chr08	14072937	GG	AA	1946909945
SNP_P4_108208_14072949	NC_021167.1	Ca_kabuli_chr08	14072949	CC	GG	1946909947
SNP_P4_108209_14073036	NC_021167.1	Ca_kabuli_chr08	14073036	CC	GG	1946909949
SNP_P4_108210_14073455	NC_021167.1	Ca_kabuli_chr08	14073455	TT	CC	1946909951
SNP_P4_108211_14073462	NC_021167.1	Ca_kabuli_chr08	14073462	CC	TT	1946909953

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_108214_14073756	NC_021167.1	Ca_kabuli_chr08	14073756	AA	CC	1946909957
SNP_P4_108215_14074253	NC_021167.1	Ca_kabuli_chr08	14074253	CC	TT	1946909959
SNP_P4_108217_14074313	NC_021167.1	Ca_kabuli_chr08	14074313	CC	GG	1946909961
SNP_P4_108218_14074566	NC_021167.1	Ca_kabuli_chr08	14074566	CC	GG	1946909963
SNP_P4_108219_14074624	NC_021167.1	Ca_kabuli_chr08	14074624	GG	TT	1946909965
SNP_P4_108220_14076536	NC_021167.1	Ca_kabuli_chr08	14076536	GG	TT	1946909967
SNP_P4_108221_14076621	NC_021167.1	Ca_kabuli_chr08	14076621	CC	AA	1946909969
SNP_P4_108222_14076698	NC_021167.1	Ca_kabuli_chr08	14076698	TT	GG	1946909971
SNP_P4_108223_14076820	NC_021167.1	Ca_kabuli_chr08	14076820	GG	AA	1946909973
SNP_P4_108224_14076993	NC_021167.1	Ca_kabuli_chr08	14076993	AA	CC	1946909975
SNP_P4_108225_14076994	NC_021167.1	Ca_kabuli_chr08	14076994	GG	AA	1946909977
SNP_P4_108226_14077208	NC_021167.1	Ca_kabuli_chr08	14077208	TT	CC	1946909979
SNP_P4_108227_14077264	NC_021167.1	Ca_kabuli_chr08	14077264	CC	AA	1946909981
SNP_P4_108230_14093677	NC_021167.1	Ca_kabuli_chr08	14093677	AA	TT	1946909983
SNP_P4_108231_14098127	NC_021167.1	Ca_kabuli_chr08	14098127	AA	GG	1946909985
SNP_P4_108232_14098231	NC_021167.1	Ca_kabuli_chr08	14098231	GG	TT	1946909987
SNP_P4_108233_14101188	NC_021167.1	Ca_kabuli_chr08	14101188	TT	CC	1946909989
SNP_P4_108235_14107325	NC_021167.1	Ca_kabuli_chr08	14107325	TT	CC	1946909991
SNP_P4_108236_14109045	NC_021167.1	Ca_kabuli_chr08	14109045	GG	AA	1946909993
SNP_P4_108238_14111516	NC_021167.1	Ca_kabuli_chr08	14111516	TT	AA	1946909995
SNP_P4_108239_14111574	NC_021167.1	Ca_kabuli_chr08	14111574	CC	TT	1946909997
SNP_P4_108241_14112083	NC_021167.1	Ca_kabuli_chr08	14112083	TT	AA	1946909999
SNP_P4_108242_14112105	NC_021167.1	Ca_kabuli_chr08	14112105	GG	AA	1946910001
SNP_P4_108243_14112150	NC_021167.1	Ca_kabuli_chr08	14112150	AA	CC	1946910003
SNP_P4_108244_14112163	NC_021167.1	Ca_kabuli_chr08	14112163	CC	TT	1946910005
SNP_P4_108248_14113731	NC_021167.1	Ca_kabuli_chr08	14113731	GG	TT	1946910007
SNP_P4_108249_14113761	NC_021167.1	Ca_kabuli_chr08	14113761	GG	AA	1946910009
SNP_P4_108250_14114704	NC_021167.1	Ca_kabuli_chr08	14114704	GG	AA	1946910011
SNP_P4_108251_14116158	NC_021167.1	Ca_kabuli_chr08	14116158	CC	AA	1946910013
SNP_P4_108252_14116159	NC_021167.1	Ca_kabuli_chr08	14116159	AA	TT	1946910016
SNP_P4_108253_14116198	NC_021167.1	Ca_kabuli_chr08	14116198	AA	GG	1946910018
SNP_P4_108254_14116971	NC_021167.1	Ca_kabuli_chr08	14116971	AA	GG	1946910020
SNP_P4_108255_14117089	NC_021167.1	Ca_kabuli_chr08	14117089	CC	TT	1946910022
SNP_P4_108256_14117437	NC_021167.1	Ca_kabuli_chr08	14117437	GG	AA	1946910024
SNP_P4_108257_14118115	NC_021167.1	Ca_kabuli_chr08	14118115	CC	TT	1946910026
SNP_P4_108258_14118497	NC_021167.1	Ca_kabuli_chr08	14118497	CC	TT	1946910028
SNP_P4_108259_14119419	NC_021167.1	Ca_kabuli_chr08	14119419	AA	CC	1946910030
SNP_P4_108260_14120293	NC_021167.1	Ca_kabuli_chr08	14120293	AA	TT	1946910032
SNP_P4_108262_14120828	NC_021167.1	Ca_kabuli_chr08	14120828	GG	TT	1946910034
SNP_P4_108263_14120829	NC_021167.1	Ca_kabuli_chr08	14120829	TT	AA	1946910036
SNP_P4_108264_14121289	NC_021167.1	Ca_kabuli_chr08	14121289	AA	GG	1946910038

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_108267_14123581	NC_021167.1	Ca_kabuli_chr08	14123581	TT	AA	1946910042
SNP_P4_108269_14127348	NC_021167.1	Ca_kabuli_chr08	14127348	TT	CC	1946910044
SNP_P4_108270_14127418	NC_021167.1	Ca_kabuli_chr08	14127418	CC	GG	1946910046
SNP_P4_108271_14128362	NC_021167.1	Ca_kabuli_chr08	14128362	CC	TT	1946910048
SNP_P4_108272_14130458	NC_021167.1	Ca_kabuli_chr08	14130458	GG	AA	1946910050
SNP_P4_108273_14131198	NC_021167.1	Ca_kabuli_chr08	14131198	GG	AA	1946910052
SNP_P4_108275_14131269	NC_021167.1	Ca_kabuli_chr08	14131269	GG	AA	1946910054
SNP_P4_108276_14131284	NC_021167.1	Ca_kabuli_chr08	14131284	CC	TT	1946910056
SNP_P4_108277_14132509	NC_021167.1	Ca_kabuli_chr08	14132509	CC	TT	1946910058
SNP_P4_108278_14134550	NC_021167.1	Ca_kabuli_chr08	14134550	AA	CC	1946910060
SNP_P4_108279_14136518	NC_021167.1	Ca_kabuli_chr08	14136518	GG	CC	1946910062
SNP_P4_108282_14139124	NC_021167.1	Ca_kabuli_chr08	14139124	TT	AA	1946910064
SNP_P4_108283_14139498	NC_021167.1	Ca_kabuli_chr08	14139498	TT	GG	1946910066
SNP_P4_108284_14139827	NC_021167.1	Ca_kabuli_chr08	14139827	GG	AA	1946910068
SNP_P4_108285_14140300	NC_021167.1	Ca_kabuli_chr08	14140300	GG	AA	1946910070
SNP_P4_108286_14140792	NC_021167.1	Ca_kabuli_chr08	14140792	GG	AA	1946910072
SNP_P4_108287_14140800	NC_021167.1	Ca_kabuli_chr08	14140800	GG	AA	1946910074
SNP_P4_108288_14142468	NC_021167.1	Ca_kabuli_chr08	14142468	CC	TT	1946910077
SNP_P4_108289_14142591	NC_021167.1	Ca_kabuli_chr08	14142591	GG	TT	1946910079
SNP_P4_108292_14150025	NC_021167.1	Ca_kabuli_chr08	14150025	AA	GG	1946910081
SNP_P4_108293_14150409	NC_021167.1	Ca_kabuli_chr08	14150409	CC	AA	1946910083
SNP_P4_108294_14153311	NC_021167.1	Ca_kabuli_chr08	14153311	TT	CC	1946910085
SNP_P4_108295_14155293	NC_021167.1	Ca_kabuli_chr08	14155293	AA	GG	1946910087
SNP_P4_108296_14156488	NC_021167.1	Ca_kabuli_chr08	14156488	AA	TT	1946910089
SNP_P4_108298_14157730	NC_021167.1	Ca_kabuli_chr08	14157730	TT	CC	1946910091
SNP_P4_108299_14157894	NC_021167.1	Ca_kabuli_chr08	14157894	CC	AA	1946910093
SNP_P4_108300_14161816	NC_021167.1	Ca_kabuli_chr08	14161816	AA	GG	1946910095
SNP_P4_108301_14162118	NC_021167.1	Ca_kabuli_chr08	14162118	CC	AA	1946910097
SNP_P4_108302_14162122	NC_021167.1	Ca_kabuli_chr08	14162122	TT	GG	1946910099
SNP_P4_108303_14162124	NC_021167.1	Ca_kabuli_chr08	14162124	TT	AA	1946910101
SNP_P4_108304_14162150	NC_021167.1	Ca_kabuli_chr08	14162150	TT	AA	1946910103
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SNP_P4_108306_14162377	NC_021167.1	Ca_kabuli_chr08	14162377	TT	AA	1946910107
SNP_P4_108307_14163078	NC_021167.1	Ca_kabuli_chr08	14163078	CC	TT	1946910109
SNP_P4_108308_14163105	NC_021167.1	Ca_kabuli_chr08	14163105	AA	GG	1946910111
SNP_P4_108309_14163127	NC_021167.1	Ca_kabuli_chr08	14163127	TT	AA	1946910113
SNP_P4_108311_14163269	NC_021167.1	Ca_kabuli_chr08	14163269	TT	AA	1946910115
SNP_P4_108312_14163279	NC_021167.1	Ca_kabuli_chr08	14163279	AA	TT	1946910117
SNP_P4_108313_14163497	NC_021167.1	Ca_kabuli_chr08	14163497	GG	AA	1946910119
SNP_P4_108314_14164428	NC_021167.1	Ca_kabuli_chr08	14164428	AA	TT	1946910121
SNP_P4_108315_14164641	NC_021167.1	Ca_kabuli_chr08	14164641	GG	AA	1946910123

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_108317_14164678	NC_021167.1	Ca_kabuli_chr08	14164678	GG	AA	1946910127
SNP_P4_108318_14164778	NC_021167.1	Ca_kabuli_chr08	14164778	CC	TT	1946910129
SNP_P4_108319_14164784	NC_021167.1	Ca_kabuli_chr08	14164784	CC	TT	1946910131
SNP_P4_108320_14164787	NC_021167.1	Ca_kabuli_chr08	14164787	CC	TT	1946910133
SNP_P4_108321_14164788	NC_021167.1	Ca_kabuli_chr08	14164788	AA	TT	1946910135
SNP_P4_108323_14165115	NC_021167.1	Ca_kabuli_chr08	14165115	CC	GG	1946910137
SNP_P4_108324_14165350	NC_021167.1	Ca_kabuli_chr08	14165350	CC	TT	1946910139
SNP_P4_108325_14165361	NC_021167.1	Ca_kabuli_chr08	14165361	CC	AA	1946910141
SNP_P4_108326_14165429	NC_021167.1	Ca_kabuli_chr08	14165429	CC	TT	1946910143
SNP_P4_108327_14166266	NC_021167.1	Ca_kabuli_chr08	14166266	AA	TT	1946910145
SNP_P4_108328_14166272	NC_021167.1	Ca_kabuli_chr08	14166272	TT	CC	1946910147
SNP_P4_108329_14166302	NC_021167.1	Ca_kabuli_chr08	14166302	TT	CC	1946910149
SNP_P4_108330_14167393	NC_021167.1	Ca_kabuli_chr08	14167393	CC	AA	1946910151
SNP_P4_108331_14168815	NC_021167.1	Ca_kabuli_chr08	14168815	GG	TT	1946910153
SNP_P4_108332_14168883	NC_021167.1	Ca_kabuli_chr08	14168883	TT	GG	1946910155
SNP_P4_108333_14168884	NC_021167.1	Ca_kabuli_chr08	14168884	TT	AA	1946910157
SNP_P4_108334_14169228	NC_021167.1	Ca_kabuli_chr08	14169228	GG	AA	1946910159
SNP_P4_108336_14169390	NC_021167.1	Ca_kabuli_chr08	14169390	AA	CC	1946910161
SNP_P4_108337_14170395	NC_021167.1	Ca_kabuli_chr08	14170395	TT	AA	1946910163
SNP_P4_108338_14170462	NC_021167.1	Ca_kabuli_chr08	14170462	CC	TT	1946910165
SNP_P4_108339_14170554	NC_021167.1	Ca_kabuli_chr08	14170554	AA	GG	1946910167
SNP_P4_108342_14170764	NC_021167.1	Ca_kabuli_chr08	14170764	CC	TT	1946910169
SNP_P4_108343_14182884	NC_021167.1	Ca_kabuli_chr08	14182884	TT	CC	1946910171
SNP_P4_108344_14182944	NC_021167.1	Ca_kabuli_chr08	14182944	AA	TT	1946910173
SNP_P4_108345_14182946	NC_021167.1	Ca_kabuli_chr08	14182946	AA	GG	1946910175
SNP_P4_108347_14183515	NC_021167.1	Ca_kabuli_chr08	14183515	CC	TT	1946910177
SNP_P4_108348_14184439	NC_021167.1	Ca_kabuli_chr08	14184439	GG	AA	1946910179
SNP_P4_108349_14184451	NC_021167.1	Ca_kabuli_chr08	14184451	AA	CC	1946910181
SNP_P4_108350_14184464	NC_021167.1	Ca_kabuli_chr08	14184464	AA	TT	1946910183
SNP_P4_108351_14186097	NC_021167.1	Ca_kabuli_chr08	14186097	AA	TT	1946910185
SNP_P4_108353_14186975	NC_021167.1	Ca_kabuli_chr08	14186975	GG	AA	1946910187
SNP_P4_108354_14187154	NC_021167.1	Ca_kabuli_chr08	14187154	TT	AA	1946910189
SNP_P4_108355_14187814	NC_021167.1	Ca_kabuli_chr08	14187814	CC	TT	1946910191
SNP_P4_108356_14187826	NC_021167.1	Ca_kabuli_chr08	14187826	TT	CC	1946910193
SNP_P4_108357_14187847	NC_021167.1	Ca_kabuli_chr08	14187847	AA	GG	1946910195
SNP_P4_108358_14189770	NC_021167.1	Ca_kabuli_chr08	14189770	TT	GG	1946910197
SNP_P4_108359_14189777	NC_021167.1	Ca_kabuli_chr08	14189777	TT	AA	1946910199
SNP_P4_108360_14189812	NC_021167.1	Ca_kabuli_chr08	14189812	AA	CC	1946910201
SNP_P4_108361_14189998	NC_021167.1	Ca_kabuli_chr08	14189998	CC	TT	1946910203
SNP_P4_108362_14190203	NC_021167.1	Ca_kabuli_chr08	14190203	CC	TT	1946910205
SNP_P4_108363_14190320	NC_021167.1	Ca_kabuli_chr08	14190320	TT	CC	1946910207

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_108365_14190704	NC_021167.1	Ca_kabuli_chr08	14190704	TT	AA	1946910211
SNP_P4_108366_14190761	NC_021167.1	Ca_kabuli_chr08	14190761	GG	AA	1946910213
SNP_P4_108367_14191440	NC_021167.1	Ca_kabuli_chr08	14191440	CC	TT	1946910215
SNP_P4_108368_14191448	NC_021167.1	Ca_kabuli_chr08	14191448	CC	TT	1946910217
SNP_P4_108369_14191473	NC_021167.1	Ca_kabuli_chr08	14191473	TT	CC	1946910219
SNP_P4_108370_14191520	NC_021167.1	Ca_kabuli_chr08	14191520	AA	GG	1946910221
SNP_P4_108371_14191524	NC_021167.1	Ca_kabuli_chr08	14191524	TT	CC	1946910223
SNP_P4_108372_14191531	NC_021167.1	Ca_kabuli_chr08	14191531	CC	TT	1946910225
SNP_P4_108373_14191540	NC_021167.1	Ca_kabuli_chr08	14191540	TT	CC	1946910227
SNP_P4_108374_14191552	NC_021167.1	Ca_kabuli_chr08	14191552	CC	GG	1946910229
SNP_P4_108375_14194718	NC_021167.1	Ca_kabuli_chr08	14194718	AA	GG	1946910231
SNP_P4_108376_14194744	NC_021167.1	Ca_kabuli_chr08	14194744	GG	AA	1946910233
SNP_P4_108377_14194895	NC_021167.1	Ca_kabuli_chr08	14194895	AA	TT	1946910235
SNP_P4_108378_14194919	NC_021167.1	Ca_kabuli_chr08	14194919	GG	AA	1946910237
SNP_P4_108380_14209191	NC_021167.1	Ca_kabuli_chr08	14209191	CC	TT	1946910239
SNP_P4_108381_14209390	NC_021167.1	Ca_kabuli_chr08	14209390	AA	GG	1946910241
SNP_P4_108382_14209391	NC_021167.1	Ca_kabuli_chr08	14209391	CC	TT	1946910243
SNP_P4_108383_14209402	NC_021167.1	Ca_kabuli_chr08	14209402	CC	TT	1946910245
SNP_P4_108384_14209520	NC_021167.1	Ca_kabuli_chr08	14209520	TT	CC	1946910247
SNP_P4_108385_14209917	NC_021167.1	Ca_kabuli_chr08	14209917	AA	CC	1946910249
SNP_P4_108386_14211532	NC_021167.1	Ca_kabuli_chr08	14211532	AA	GG	1946910251
SNP_P4_108388_14212415	NC_021167.1	Ca_kabuli_chr08	14212415	GG	CC	1946910253
SNP_P4_108389_14218036	NC_021167.1	Ca_kabuli_chr08	14218036	AA	CC	1946910255
SNP_P4_108390_14218037	NC_021167.1	Ca_kabuli_chr08	14218037	AA	TT	1946910257
SNP_P4_108391_14218038	NC_021167.1	Ca_kabuli_chr08	14218038	AA	TT	1946910259
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SNP_P4_108393_14218092	NC_021167.1	Ca_kabuli_chr08	14218092	TT	CC	1946910263
SNP_P4_108396_14218191	NC_021167.1	Ca_kabuli_chr08	14218191	TT	CC	1946910265
SNP_P4_108398_14218264	NC_021167.1	Ca_kabuli_chr08	14218264	GG	AA	1946910267
SNP_P4_108399_14218317	NC_021167.1	Ca_kabuli_chr08	14218317	AA	GG	1946910269
SNP_P4_108400_14218329	NC_021167.1	Ca_kabuli_chr08	14218329	GG	CC	1946910271
SNP_P4_108401_14218377	NC_021167.1	Ca_kabuli_chr08	14218377	GG	TT	1946910273
SNP_P4_108402_14218505	NC_021167.1	Ca_kabuli_chr08	14218505	TT	AA	1946910275
SNP_P4_108403_14218534	NC_021167.1	Ca_kabuli_chr08	14218534	TT	CC	1946910277
SNP_P4_108404_14218625	NC_021167.1	Ca_kabuli_chr08	14218625	GG	TT	1946910279
SNP_P4_108405_14218704	NC_021167.1	Ca_kabuli_chr08	14218704	TT	AA	1946910281
SNP_P4_108406_14218720	NC_021167.1	Ca_kabuli_chr08	14218720	GG	AA	1946910283
SNP_P4_108407_14218726	NC_021167.1	Ca_kabuli_chr08	14218726	AA	GG	1946910285
SNP_P4_108408_14218743	NC_021167.1	Ca_kabuli_chr08	14218743	CC	TT	1946910287
SNP_P4_108409_14218792	NC_021167.1	Ca_kabuli_chr08	14218792	GG	AA	1946910289
SNP_P4_108410_14218804	NC_021167.1	Ca_kabuli_chr08	14218804	AA	GG	1946910291

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_108412_14218858	NC_021167.1	Ca_kabuli_chr08	14218858	GG	AA	1946910295
SNP_P4_108414_14222786	NC_021167.1	Ca_kabuli_chr08	14222786	CC	GG	1946910297
SNP_P4_108415_14222787	NC_021167.1	Ca_kabuli_chr08	14222787	TT	GG	1946910299
SNP_P4_108416_14223246	NC_021167.1	Ca_kabuli_chr08	14223246	AA	GG	1946910301
SNP_P4_108417_14223533	NC_021167.1	Ca_kabuli_chr08	14223533	CC	TT	1946910303
SNP_P4_108418_14223600	NC_021167.1	Ca_kabuli_chr08	14223600	TT	CC	1946910305
SNP_P4_108419_14223632	NC_021167.1	Ca_kabuli_chr08	14223632	AA	TT	1946910307
SNP_P4_108420_14223856	NC_021167.1	Ca_kabuli_chr08	14223856	TT	CC	1946910309
SNP_P4_108421_14223895	NC_021167.1	Ca_kabuli_chr08	14223895	TT	CC	1946910311
SNP_P4_108422_14224765	NC_021167.1	Ca_kabuli_chr08	14224765	TT	GG	1946910313
SNP_P4_108423_14224774	NC_021167.1	Ca_kabuli_chr08	14224774	TT	AA	1946910315
SNP_P4_108424_14225127	NC_021167.1	Ca_kabuli_chr08	14225127	CC	TT	1946910317
SNP_P4_108425_14231345	NC_021167.1	Ca_kabuli_chr08	14231345	TT	CC	1946910319
SNP_P4_108426_14231347	NC_021167.1	Ca_kabuli_chr08	14231347	TT	CC	1946910321
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SNP_P4_108428_14231367	NC_021167.1	Ca_kabuli_chr08	14231367	GG	AA	1946910325
SNP_P4_108429_14231371	NC_021167.1	Ca_kabuli_chr08	14231371	TT	CC	1946910327
SNP_P4_108430_14231673	NC_021167.1	Ca_kabuli_chr08	14231673	GG	AA	1946910329
SNP_P4_108431_14239374	NC_021167.1	Ca_kabuli_chr08	14239374	TT	CC	1946910331
SNP_P4_108432_14239406	NC_021167.1	Ca_kabuli_chr08	14239406	TT	CC	1946910333
SNP_P4_108433_14239430	NC_021167.1	Ca_kabuli_chr08	14239430	TT	AA	1946910335
SNP_P4_108434_14243954	NC_021167.1	Ca_kabuli_chr08	14243954	AA	TT	1946910337
SNP_P4_108436_14244535	NC_021167.1	Ca_kabuli_chr08	14244535	GG	AA	1946910339
SNP_P4_108438_14244935	NC_021167.1	Ca_kabuli_chr08	14244935	AA	TT	1946910341
SNP_P4_108439_14245306	NC_021167.1	Ca_kabuli_chr08	14245306	TT	CC	1946910343
SNP_P4_108440_14245578	NC_021167.1	Ca_kabuli_chr08	14245578	CC	AA	1946910345
SNP_P4_108441_14247201	NC_021167.1	Ca_kabuli_chr08	14247201	CC	TT	1946910347
SNP_P4_108442_14247256	NC_021167.1	Ca_kabuli_chr08	14247256	AA	GG	1946910349
SNP_P4_108443_14247674	NC_021167.1	Ca_kabuli_chr08	14247674	AA	TT	1946910351
SNP_P4_108444_14248472	NC_021167.1	Ca_kabuli_chr08	14248472	TT	CC	1946910353
SNP_P4_108445_14248489	NC_021167.1	Ca_kabuli_chr08	14248489	AA	GG	1946910355
SNP_P4_108446_14248500	NC_021167.1	Ca_kabuli_chr08	14248500	TT	CC	1946910358
SNP_P4_108447_14248570	NC_021167.1	Ca_kabuli_chr08	14248570	TT	AA	1946910360
SNP_P4_108448_14248571	NC_021167.1	Ca_kabuli_chr08	14248571	GG	AA	1946910362
SNP_P4_108451_14248795	NC_021167.1	Ca_kabuli_chr08	14248795	GG	TT	1946910364
SNP_P4_108452_14248932	NC_021167.1	Ca_kabuli_chr08	14248932	CC	GG	1946910366
SNP_P4_108453_14250202	NC_021167.1	Ca_kabuli_chr08	14250202	GG	AA	1946910368
SNP_P4_108454_14250228	NC_021167.1	Ca_kabuli_chr08	14250228	GG	AA	1946910370
SNP_P4_108455_14250272	NC_021167.1	Ca_kabuli_chr08	14250272	GG	CC	1946910372
SNP_P4_108456_14250440	NC_021167.1	Ca_kabuli_chr08	14250440	TT	CC	1946910374
SNP_P4_108457_14250447	NC_021167.1	Ca_kabuli_chr08	14250447	GG	AA	1946910376

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_108460_14252417	NC_021167.1	Ca_kabuli_chr08	14252417	CC	TT	1946910380
SNP_P4_108461_14252419	NC_021167.1	Ca_kabuli_chr08	14252419	CC	TT	1946910382
SNP_P4_108462_14252426	NC_021167.1	Ca_kabuli_chr08	14252426	CC	TT	1946910384
SNP_P4_108463_14252427	NC_021167.1	Ca_kabuli_chr08	14252427	GG	AA	1946910386
SNP_P4_108464_14252436	NC_021167.1	Ca_kabuli_chr08	14252436	CC	TT	1946910388
SNP_P4_108465_14252461	NC_021167.1	Ca_kabuli_chr08	14252461	CC	TT	1946910390
SNP_P4_108466_14252468	NC_021167.1	Ca_kabuli_chr08	14252468	CC	TT	1946910392
SNP_P4_108467_14252473	NC_021167.1	Ca_kabuli_chr08	14252473	CC	TT	1946910394
SNP_P4_108469_14252951	NC_021167.1	Ca_kabuli_chr08	14252951	GG	AA	1946910396
SNP_P4_108470_14253348	NC_021167.1	Ca_kabuli_chr08	14253348	CC	TT	1946910398
SNP_P4_108471_14253552	NC_021167.1	Ca_kabuli_chr08	14253552	CC	AA	1946910400
SNP_P4_108472_14255232	NC_021167.1	Ca_kabuli_chr08	14255232	TT	CC	1946910402
SNP_P4_108473_14255556	NC_021167.1	Ca_kabuli_chr08	14255556	GG	AA	1946910404
SNP_P4_108474_14255624	NC_021167.1	Ca_kabuli_chr08	14255624	CC	TT	1946910406
SNP_P4_108475_14256698	NC_021167.1	Ca_kabuli_chr08	14256698	CC	AA	1946910408
SNP_P4_108476_14256705	NC_021167.1	Ca_kabuli_chr08	14256705	AA	GG	1946910410
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SNP_P4_108480_14257314	NC_021167.1	Ca_kabuli_chr08	14257314	GG	AA	1946910413
SNP_P4_108482_14257349	NC_021167.1	Ca_kabuli_chr08	14257349	AA	GG	1946910414
SNP_P4_108483_14257360	NC_021167.1	Ca_kabuli_chr08	14257360	CC	TT	1946910415
SNP_P4_108484_14257361	NC_021167.1	Ca_kabuli_chr08	14257361	TT	CC	1946910417
SNP_P4_108485_14257364	NC_021167.1	Ca_kabuli_chr08	14257364	CC	TT	1946910419
SNP_P4_108487_14258972	NC_021167.1	Ca_kabuli_chr08	14258972	AA	CC	1946910421
SNP_P4_108490_14265256	NC_021167.1	Ca_kabuli_chr08	14265256	CC	TT	1946910423
SNP_P4_108491_14265261	NC_021167.1	Ca_kabuli_chr08	14265261	GG	AA	1946910425
SNP_P4_108492_14265263	NC_021167.1	Ca_kabuli_chr08	14265263	CC	TT	1946910427
SNP_P4_108493_14265264	NC_021167.1	Ca_kabuli_chr08	14265264	AA	GG	1946910429
SNP_P4_108494_14266260	NC_021167.1	Ca_kabuli_chr08	14266260	AA	TT	1946910431
SNP_P4_108495_14266722	NC_021167.1	Ca_kabuli_chr08	14266722	GG	TT	1946910433
SNP_P4_108496_14266802	NC_021167.1	Ca_kabuli_chr08	14266802	AA	GG	1946910435
SNP_P4_108498_14269196	NC_021167.1	Ca_kabuli_chr08	14269196	CC	TT	1946910437
SNP_P4_108499_14269405	NC_021167.1	Ca_kabuli_chr08	14269405	CC	AA	1946910439
SNP_P4_108500_14269420	NC_021167.1	Ca_kabuli_chr08	14269420	TT	CC	1946910441
SNP_P4_108501_14269438	NC_021167.1	Ca_kabuli_chr08	14269438	AA	GG	1946910443
SNP_P4_108502_14269453	NC_021167.1	Ca_kabuli_chr08	14269453	TT	AA	1946910445
SNP_P4_108504_14270029	NC_021167.1	Ca_kabuli_chr08	14270029	GG	AA	1946910449
SNP_P4_108505_14270068	NC_021167.1	Ca_kabuli_chr08	14270068	AA	TT	1946910452
SNP_P4_108506_14270089	NC_021167.1	Ca_kabuli_chr08	14270089	AA	CC	1946910455
SNP_P4_108507_14270288	NC_021167.1	Ca_kabuli_chr08	14270288	GG	AA	1946910459
SNP_P4_108508_14270290	NC_021167.1	Ca_kabuli_chr08	14270290	CC	AA	1946910462

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_108511_14270786	NC_021167.1	Ca_kabuli_chr08	14270786	TT	CC	1946910468
SNP_P4_108512_14270876	NC_021167.1	Ca_kabuli_chr08	14270876	TT	CC	1946910471
SNP_P4_108513_14270944	NC_021167.1	Ca_kabuli_chr08	14270944	CC	GG	1946910473
SNP_P4_108514_14270992	NC_021167.1	Ca_kabuli_chr08	14270992	GG	AA	1946910475
SNP_P4_108515_14271121	NC_021167.1	Ca_kabuli_chr08	14271121	TT	CC	1946910477
SNP_P4_108516_14271139	NC_021167.1	Ca_kabuli_chr08	14271139	GG	TT	1946910479
SNP_P4_108517_14271143	NC_021167.1	Ca_kabuli_chr08	14271143	AA	GG	1946910481
SNP_P4_108518_14279632	NC_021167.1	Ca_kabuli_chr08	14279632	GG	AA	1946910483
SNP_P4_108520_14282023	NC_021167.1	Ca_kabuli_chr08	14282023	TT	AA	1946910485
SNP_P4_108521_14288571	NC_021167.1	Ca_kabuli_chr08	14288571	AA	GG	1946910487
SNP_P4_108522_14288620	NC_021167.1	Ca_kabuli_chr08	14288620	TT	CC	1946910489
SNP_P4_108525_14291944	NC_021167.1	Ca_kabuli_chr08	14291944	TT	CC	1946910491
SNP_P4_108527_14292470	NC_021167.1	Ca_kabuli_chr08	14292470	TT	GG	1946910493
SNP_P4_108528_14293175	NC_021167.1	Ca_kabuli_chr08	14293175	TT	CC	1946910495
SNP_P4_108529_14293191	NC_021167.1	Ca_kabuli_chr08	14293191	TT	CC	1946910497
SNP_P4_108530_14293195	NC_021167.1	Ca_kabuli_chr08	14293195	AA	CC	1946910499
SNP_P4_108531_14293222	NC_021167.1	Ca_kabuli_chr08	14293222	CC	AA	1946910501
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SNP_P4_108533_14301148	NC_021167.1	Ca_kabuli_chr08	14301148	CC	TT	1946910505
SNP_P4_108534_14302514	NC_021167.1	Ca_kabuli_chr08	14302514	GG	TT	1946910507
SNP_P4_108535_14302522	NC_021167.1	Ca_kabuli_chr08	14302522	GG	AA	1946910509
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SNP_P4_108537_14302608	NC_021167.1	Ca_kabuli_chr08	14302608	GG	AA	1946910513
SNP_P4_108538_14302642	NC_021167.1	Ca_kabuli_chr08	14302642	CC	GG	1946910515
SNP_P4_108539_14302666	NC_021167.1	Ca_kabuli_chr08	14302666	CC	TT	1946910517
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SNP_P4_108541_14302680	NC_021167.1	Ca_kabuli_chr08	14302680	TT	GG	1946910521
SNP_P4_108542_14302732	NC_021167.1	Ca_kabuli_chr08	14302732	GG	TT	1946910524
SNP_P4_108543_14302737	NC_021167.1	Ca_kabuli_chr08	14302737	TT	CC	1946910526
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SNP_P4_108545_14302793	NC_021167.1	Ca_kabuli_chr08	14302793	CC	GG	1946910530
SNP_P4_108548_14302875	NC_021167.1	Ca_kabuli_chr08	14302875	CC	TT	1946910532
SNP_P4_108549_14302880	NC_021167.1	Ca_kabuli_chr08	14302880	AA	TT	1946910534
SNP_P4_108550_14302917	NC_021167.1	Ca_kabuli_chr08	14302917	TT	CC	1946910536
SNP_P4_108551_14302947	NC_021167.1	Ca_kabuli_chr08	14302947	TT	AA	1946910538
SNP_P4_108552_14303007	NC_021167.1	Ca_kabuli_chr08	14303007	CC	TT	1946910540
SNP_P4_108553_14303478	NC_021167.1	Ca_kabuli_chr08	14303478	AA	GG	1946910542
SNP_P4_108554_14303944	NC_021167.1	Ca_kabuli_chr08	14303944	CC	AA	1946910544
SNP_P4_108555_14306060	NC_021167.1	Ca_kabuli_chr08	14306060	CC	TT	1946910546
SNP_P4_108556_14306073	NC_021167.1	Ca_kabuli_chr08	14306073	CC	TT	1946910548

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_108561_14310997	NC_021167.1	Ca_kabuli_chr08	14310997	CC	TT	1946910554
SNP_P4_108563_14312443	NC_021167.1	Ca_kabuli_chr08	14312443	AA	GG	1946910556
SNP_P4_108564_14312445	NC_021167.1	Ca_kabuli_chr08	14312445	TT	CC	1946910558
SNP_P4_108565_14312478	NC_021167.1	Ca_kabuli_chr08	14312478	TT	CC	1946910560
SNP_P4_108566_14312831	NC_021167.1	Ca_kabuli_chr08	14312831	TT	AA	1946910562
SNP_P4_108567_14312855	NC_021167.1	Ca_kabuli_chr08	14312855	GG	AA	1946910564
SNP_P4_108569_14315180	NC_021167.1	Ca_kabuli_chr08	14315180	AA	GG	1946910566
SNP_P4_108570_14315603	NC_021167.1	Ca_kabuli_chr08	14315603	CC	TT	1946910568
SNP_P4_108571_14318588	NC_021167.1	Ca_kabuli_chr08	14318588	CC	TT	1946910570
SNP_P4_108572_14318590	NC_021167.1	Ca_kabuli_chr08	14318590	CC	TT	1946910572
SNP_P4_108573_14318782	NC_021167.1	Ca_kabuli_chr08	14318782	TT	CC	1946910574
SNP_P4_108574_14318797	NC_021167.1	Ca_kabuli_chr08	14318797	TT	AA	1946910576
SNP_P4_108576_14319887	NC_021167.1	Ca_kabuli_chr08	14319887	AA	GG	1946910579
SNP_P4_108578_14319904	NC_021167.1	Ca_kabuli_chr08	14319904	TT	GG	1946910581
SNP_P4_108579_14320177	NC_021167.1	Ca_kabuli_chr08	14320177	AA	TT	1946910583
SNP_P4_108583_14321523	NC_021167.1	Ca_kabuli_chr08	14321523	GG	CC	1946910585
SNP_P4_108584_14321599	NC_021167.1	Ca_kabuli_chr08	14321599	AA	TT	1946910587
SNP_P4_108585_14324349	NC_021167.1	Ca_kabuli_chr08	14324349	GG	AA	1946910589
SNP_P4_108586_14326569	NC_021167.1	Ca_kabuli_chr08	14326569	GG	TT	1946910591
SNP_P4_108587_14329495	NC_021167.1	Ca_kabuli_chr08	14329495	GG	TT	1946910593
SNP_P4_108588_14330506	NC_021167.1	Ca_kabuli_chr08	14330506	TT	AA	1946910595
SNP_P4_108589_14330780	NC_021167.1	Ca_kabuli_chr08	14330780	GG	AA	1946910596
SNP_P4_108590_14331021	NC_021167.1	Ca_kabuli_chr08	14331021	TT	AA	1946910598
SNP_P4_108591_14331166	NC_021167.1	Ca_kabuli_chr08	14331166	GG	AA	1946910600
SNP_P4_108592_14333215	NC_021167.1	Ca_kabuli_chr08	14333215	AA	GG	1946910602
SNP_P4_108593_14333478	NC_021167.1	Ca_kabuli_chr08	14333478	TT	AA	1946910604
SNP_P4_108594_14333479	NC_021167.1	Ca_kabuli_chr08	14333479	CC	TT	1946910606
SNP_P4_108595_14334076	NC_021167.1	Ca_kabuli_chr08	14334076	TT	CC	1946910608
SNP_P4_108596_14334078	NC_021167.1	Ca_kabuli_chr08	14334078	TT	AA	1946910610
SNP_P4_108597_14334079	NC_021167.1	Ca_kabuli_chr08	14334079	TT	CC	1946910612
SNP_P4_108599_14334438	NC_021167.1	Ca_kabuli_chr08	14334438	GG	AA	1946910614
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SNP_P4_108603_14335065	NC_021167.1	Ca_kabuli_chr08	14335065	AA	GG	1946910619
SNP_P4_108604_14337142	NC_021167.1	Ca_kabuli_chr08	14337142	TT	CC	1946910621
SNP_P4_108605_14337508	NC_021167.1	Ca_kabuli_chr08	14337508	CC	TT	1946910623
SNP_P4_108606_14337655	NC_021167.1	Ca_kabuli_chr08	14337655	CC	TT	1946910625
SNP_P4_108607_14337694	NC_021167.1	Ca_kabuli_chr08	14337694	AA	GG	1946910627
SNP_P4_108608_14337704	NC_021167.1	Ca_kabuli_chr08	14337704	GG	AA	1946910629
SNP_P4_108609_14337750	NC_021167.1	Ca_kabuli_chr08	14337750	AA	GG	1946910631

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_108613_14337856	NC_021167.1	Ca_kabuli_chr08	14337856	AA	GG	1946910635
SNP_P4_108614_14337864	NC_021167.1	Ca_kabuli_chr08	14337864	AA	GG	1946910637
SNP_P4_108615_14337880	NC_021167.1	Ca_kabuli_chr08	14337880	TT	GG	1946910639
SNP_P4_108616_14337887	NC_021167.1	Ca_kabuli_chr08	14337887	TT	CC	1946910641
SNP_P4_108617_14337942	NC_021167.1	Ca_kabuli_chr08	14337942	TT	CC	1946910643
SNP_P4_108618_14338160	NC_021167.1	Ca_kabuli_chr08	14338160	AA	CC	1946910645
SNP_P4_108620_14338581	NC_021167.1	Ca_kabuli_chr08	14338581	GG	AA	1946910647
SNP_P4_108621_14340804	NC_021167.1	Ca_kabuli_chr08	14340804	GG	AA	1946910649
SNP_P4_108622_14340828	NC_021167.1	Ca_kabuli_chr08	14340828	TT	GG	1946910651
SNP_P4_108623_14341205	NC_021167.1	Ca_kabuli_chr08	14341205	AA	CC	1946910653
SNP_P4_108624_14342097	NC_021167.1	Ca_kabuli_chr08	14342097	AA	CC	1946910655
SNP_P4_108625_14342100	NC_021167.1	Ca_kabuli_chr08	14342100	GG	CC	1946910657
SNP_P4_108626_14342104	NC_021167.1	Ca_kabuli_chr08	14342104	CC	TT	1946910659
SNP_P4_108627_14342138	NC_021167.1	Ca_kabuli_chr08	14342138	TT	AA	1946910661
SNP_P4_108628_14342139	NC_021167.1	Ca_kabuli_chr08	14342139	CC	AA	1946910663
SNP_P4_108629_14342142	NC_021167.1	Ca_kabuli_chr08	14342142	GG	AA	1946910665
SNP_P4_108630_14342938	NC_021167.1	Ca_kabuli_chr08	14342938	TT	AA	1946910667
SNP_P4_108631_14344137	NC_021167.1	Ca_kabuli_chr08	14344137	TT	CC	1946910669
SNP_P4_108632_14344177	NC_021167.1	Ca_kabuli_chr08	14344177	TT	CC	1946910671
SNP_P4_108635_14347050	NC_021167.1	Ca_kabuli_chr08	14347050	CC	TT	1946910673
SNP_P4_108636_14349953	NC_021167.1	Ca_kabuli_chr08	14349953	CC	AA	1946910675
SNP_P4_108637_14349968	NC_021167.1	Ca_kabuli_chr08	14349968	CC	TT	1946910677
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SNP_P4_108639_14356486	NC_021167.1	Ca_kabuli_chr08	14356486	CC	GG	1946910681
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SNP_P4_108642_14357660	NC_021167.1	Ca_kabuli_chr08	14357660	TT	AA	1946910687
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SNP_P4_108644_14359392	NC_021167.1	Ca_kabuli_chr08	14359392	CC	TT	1946910691
SNP_P4_108645_14359731	NC_021167.1	Ca_kabuli_chr08	14359731	CC	TT	1946910693
SNP_P4_108646_14361109	NC_021167.1	Ca_kabuli_chr08	14361109	TT	CC	1946910695
SNP_P4_108647_14362382	NC_021167.1	Ca_kabuli_chr08	14362382	CC	TT	1946910697
SNP_P4_108648_14362438	NC_021167.1	Ca_kabuli_chr08	14362438	TT	CC	1946910699
SNP_P4_108649_14362682	NC_021167.1	Ca_kabuli_chr08	14362682	TT	AA	1946910701
SNP_P4_108650_14362739	NC_021167.1	Ca_kabuli_chr08	14362739	AA	CC	1946910703
SNP_P4_108652_14363443	NC_021167.1	Ca_kabuli_chr08	14363443	CC	AA	1946910705
SNP_P4_108654_14363518	NC_021167.1	Ca_kabuli_chr08	14363518	CC	GG	1946910708
SNP_P4_108655_14363726	NC_021167.1	Ca_kabuli_chr08	14363726	GG	AA	1946910710
SNP_P4_108656_14363798	NC_021167.1	Ca_kabuli_chr08	14363798	CC	AA	1946910712
SNP_P4_108660_14367751	NC_021167.1	Ca_kabuli_chr08	14367751	GG	AA	1946910714
SNP_P4_108661_14368586	NC_021167.1	Ca_kabuli_chr08	14368586	AA	CC	1946910716

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_108664_14370451	NC_021167.1	Ca_kabuli_chr08	14370451	GG	AA	1946910720
SNP_P4_108666_14370748	NC_021167.1	Ca_kabuli_chr08	14370748	GG	AA	1946910722
SNP_P4_108667_14370786	NC_021167.1	Ca_kabuli_chr08	14370786	CC	TT	1946910724
SNP_P4_108668_14370791	NC_021167.1	Ca_kabuli_chr08	14370791	AA	GG	1946910726
SNP_P4_108669_14373482	NC_021167.1	Ca_kabuli_chr08	14373482	CC	TT	1946910728
SNP_P4_108670_14373488	NC_021167.1	Ca_kabuli_chr08	14373488	AA	GG	1946910730
SNP_P4_108671_14373503	NC_021167.1	Ca_kabuli_chr08	14373503	CC	TT	1946910732
SNP_P4_108672_14373512	NC_021167.1	Ca_kabuli_chr08	14373512	TT	GG	1946910734
SNP_P4_108673_14373558	NC_021167.1	Ca_kabuli_chr08	14373558	AA	CC	1946910736
SNP_P4_108674_14373904	NC_021167.1	Ca_kabuli_chr08	14373904	GG	CC	1946910738
SNP_P4_108675_14373945	NC_021167.1	Ca_kabuli_chr08	14373945	CC	TT	1946910740
SNP_P4_108676_14379080	NC_021167.1	Ca_kabuli_chr08	14379080	CC	TT	1946910742
SNP_P4_108677_14397079	NC_021167.1	Ca_kabuli_chr08	14397079	TT	CC	1946910744
SNP_P4_108678_14437565	NC_021167.1	Ca_kabuli_chr08	14437565	TT	GG	1946910746
SNP_P4_108679_14437567	NC_021167.1	Ca_kabuli_chr08	14437567	TT	GG	1946910748
SNP_P4_108680_14444024	NC_021167.1	Ca_kabuli_chr08	14444024	GG	AA	1946910751
SNP_P4_108682_14487001	NC_021167.1	Ca_kabuli_chr08	14487001	CC	TT	1946910753
SNP_P4_108683_14516264	NC_021167.1	Ca_kabuli_chr08	14516264	TT	GG	1946910755
SNP_P4_108684_14563574	NC_021167.1	Ca_kabuli_chr08	14563574	GG	AA	1946910757
SNP_P4_108685_14563695	NC_021167.1	Ca_kabuli_chr08	14563695	AA	CC	1946910759
SNP_P4_108686_14564622	NC_021167.1	Ca_kabuli_chr08	14564622	TT	GG	1946910761
SNP_P4_108687_14564740	NC_021167.1	Ca_kabuli_chr08	14564740	AA	GG	1946910763
SNP_P4_108689_14564948	NC_021167.1	Ca_kabuli_chr08	14564948	TT	AA	1946910765
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SNP_P4_108691_14565691	NC_021167.1	Ca_kabuli_chr08	14565691	TT	GG	1946910769
SNP_P4_108692_14565743	NC_021167.1	Ca_kabuli_chr08	14565743	CC	TT	1946910771
SNP_P4_108693_14566042	NC_021167.1	Ca_kabuli_chr08	14566042	CC	TT	1946910773
SNP_P4_108694_14566050	NC_021167.1	Ca_kabuli_chr08	14566050	TT	AA	1946910775
SNP_P4_108695_14566059	NC_021167.1	Ca_kabuli_chr08	14566059	AA	TT	1946910777
SNP_P4_108696_14566091	NC_021167.1	Ca_kabuli_chr08	14566091	CC	TT	1946910779
SNP_P4_108697_14568216	NC_021167.1	Ca_kabuli_chr08	14568216	AA	GG	1946910781
SNP_P4_108698_14568250	NC_021167.1	Ca_kabuli_chr08	14568250	AA	GG	1946910784
SNP_P4_108700_14568612	NC_021167.1	Ca_kabuli_chr08	14568612	CC	TT	1946910786
SNP_P4_108702_14569038	NC_021167.1	Ca_kabuli_chr08	14569038	GG	TT	1946910788
SNP_P4_108704_14569766	NC_021167.1	Ca_kabuli_chr08	14569766	GG	AA	1946910790
SNP_P4_108705_14571168	NC_021167.1	Ca_kabuli_chr08	14571168	CC	TT	1946910792
SNP_P4_108706_14571444	NC_021167.1	Ca_kabuli_chr08	14571444	CC	TT	1946910794
SNP_P4_108707_14571460	NC_021167.1	Ca_kabuli_chr08	14571460	CC	TT	1946910796
SNP_P4_108708_14572504	NC_021167.1	Ca_kabuli_chr08	14572504	AA	TT	1946910798
SNP_P4_108712_14576573	NC_021167.1	Ca_kabuli_chr08	14576573	TT	AA	1946910800
SNP_P4_108714_14576905	NC_021167.1	Ca_kabuli_chr08	14576905	AA	GG	1946910802

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_108716_14577642	NC_021167.1	Ca_kabuli_chr08	14577642	TT	AA	1946910806
SNP_P4_108719_14578226	NC_021167.1	Ca_kabuli_chr08	14578226	GG	AA	1946910808
SNP_P4_108720_14579537	NC_021167.1	Ca_kabuli_chr08	14579537	AA	CC	1946910810
SNP_P4_108721_14579915	NC_021167.1	Ca_kabuli_chr08	14579915	TT	CC	1946910812
SNP_P4_108722_14581650	NC_021167.1	Ca_kabuli_chr08	14581650	AA	TT	1946910814
SNP_P4_108723_14581746	NC_021167.1	Ca_kabuli_chr08	14581746	TT	GG	1946910816
SNP_P4_108724_14581803	NC_021167.1	Ca_kabuli_chr08	14581803	TT	CC	1946910817
SNP_P4_108725_14583614	NC_021167.1	Ca_kabuli_chr08	14583614	TT	GG	1946910819
SNP_P4_108726_14583899	NC_021167.1	Ca_kabuli_chr08	14583899	AA	GG	1946910821
SNP_P4_108727_14583938	NC_021167.1	Ca_kabuli_chr08	14583938	TT	CC	1946910823
SNP_P4_108729_14584021	NC_021167.1	Ca_kabuli_chr08	14584021	TT	CC	1946910825
SNP_P4_108730_14584280	NC_021167.1	Ca_kabuli_chr08	14584280	CC	TT	1946910827
SNP_P4_108732_14585939	NC_021167.1	Ca_kabuli_chr08	14585939	AA	TT	1946910829
SNP_P4_108733_14586833	NC_021167.1	Ca_kabuli_chr08	14586833	GG	TT	1946910831
SNP_P4_108734_14587238	NC_021167.1	Ca_kabuli_chr08	14587238	TT	CC	1946910833
SNP_P4_108735_14587248	NC_021167.1	Ca_kabuli_chr08	14587248	TT	CC	1946910835
SNP_P4_108736_14587930	NC_021167.1	Ca_kabuli_chr08	14587930	CC	TT	1946910837
SNP_P4_108737_14589065	NC_021167.1	Ca_kabuli_chr08	14589065	AA	GG	1946910839
SNP_P4_108738_14589390	NC_021167.1	Ca_kabuli_chr08	14589390	AA	GG	1946910841
SNP_P4_108739_14591422	NC_021167.1	Ca_kabuli_chr08	14591422	CC	GG	1946910843
SNP_P4_108740_14591696	NC_021167.1	Ca_kabuli_chr08	14591696	AA	GG	1946910845
SNP_P4_108741_14591709	NC_021167.1	Ca_kabuli_chr08	14591709	GG	AA	1946910847
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SNP_P4_108745_14592931	NC_021167.1	Ca_kabuli_chr08	14592931	TT	GG	1946910852
SNP_P4_108746_14593092	NC_021167.1	Ca_kabuli_chr08	14593092	TT	CC	1946910854
SNP_P4_108747_14601817	NC_021167.1	Ca_kabuli_chr08	14601817	TT	GG	1946910856
SNP_P4_108748_14601820	NC_021167.1	Ca_kabuli_chr08	14601820	CC	TT	1946910858
SNP_P4_108749_14603294	NC_021167.1	Ca_kabuli_chr08	14603294	TT	GG	1946910860
SNP_P4_108750_14603300	NC_021167.1	Ca_kabuli_chr08	14603300	GG	AA	1946910862
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SNP_P4_108753_14603579	NC_021167.1	Ca_kabuli_chr08	14603579	CC	TT	1946910866
SNP_P4_108754_14603589	NC_021167.1	Ca_kabuli_chr08	14603589	AA	TT	1946910867
SNP_P4_108756_14603809	NC_021167.1	Ca_kabuli_chr08	14603809	CC	AA	1946910868
SNP_P4_108757_14603965	NC_021167.1	Ca_kabuli_chr08	14603965	GG	TT	1946910869
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SNP_P4_108759_14604492	NC_021167.1	Ca_kabuli_chr08	14604492	CC	TT	1946910871
SNP_P4_108760_14604503	NC_021167.1	Ca_kabuli_chr08	14604503	AA	TT	1946910872
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SNP_P4_108763_14607913	NC_021167.1	Ca_kabuli_chr08	14607913	CC	TT	1946910876

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_108766_14608615	NC_021167.1	Ca_kabuli_chr08	14608615	GG	AA	1946910882
SNP_P4_108767_14608858	NC_021167.1	Ca_kabuli_chr08	14608858	TT	CC	1946910884
SNP_P4_108768_14608871	NC_021167.1	Ca_kabuli_chr08	14608871	AA	CC	1946910886
SNP_P4_108769_14608948	NC_021167.1	Ca_kabuli_chr08	14608948	AA	TT	1946910888
SNP_P4_108770_14609088	NC_021167.1	Ca_kabuli_chr08	14609088	CC	TT	1946910890
SNP_P4_108771_14609089	NC_021167.1	Ca_kabuli_chr08	14609089	CC	TT	1946910891
SNP_P4_108772_14609095	NC_021167.1	Ca_kabuli_chr08	14609095	AA	TT	1946910893
SNP_P4_108773_14609098	NC_021167.1	Ca_kabuli_chr08	14609098	CC	TT	1946910895
SNP_P4_108774_14609119	NC_021167.1	Ca_kabuli_chr08	14609119	GG	AA	1946910897
SNP_P4_108775_14610390	NC_021167.1	Ca_kabuli_chr08	14610390	TT	CC	1946910899
SNP_P4_108776_14610405	NC_021167.1	Ca_kabuli_chr08	14610405	AA	GG	1946910901
SNP_P4_108777_14610409	NC_021167.1	Ca_kabuli_chr08	14610409	CC	GG	1946910903
SNP_P4_108778_14613214	NC_021167.1	Ca_kabuli_chr08	14613214	TT	CC	1946910905
SNP_P4_108781_14616063	NC_021167.1	Ca_kabuli_chr08	14616063	GG	AA	1946910907
SNP_P4_108782_14616166	NC_021167.1	Ca_kabuli_chr08	14616166	GG	AA	1946910909
SNP_P4_108783_14616644	NC_021167.1	Ca_kabuli_chr08	14616644	AA	CC	1946910911
SNP_P4_108784_14617261	NC_021167.1	Ca_kabuli_chr08	14617261	AA	TT	1946910913
SNP_P4_108786_14617548	NC_021167.1	Ca_kabuli_chr08	14617548	TT	AA	1946910915
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SNP_P4_108789_14622010	NC_021167.1	Ca_kabuli_chr08	14622010	CC	TT	1946910919
SNP_P4_108794_14628939	NC_021167.1	Ca_kabuli_chr08	14628939	TT	CC	1946910920
SNP_P4_108795_14629130	NC_021167.1	Ca_kabuli_chr08	14629130	AA	GG	1946910922
SNP_P4_108796_14629308	NC_021167.1	Ca_kabuli_chr08	14629308	CC	AA	1946910924
SNP_P4_108797_14629493	NC_021167.1	Ca_kabuli_chr08	14629493	TT	GG	1946910926
SNP_P4_108798_14629508	NC_021167.1	Ca_kabuli_chr08	14629508	GG	AA	1946910928
SNP_P4_108799_14629522	NC_021167.1	Ca_kabuli_chr08	14629522	TT	AA	1946910930
SNP_P4_108800_14630393	NC_021167.1	Ca_kabuli_chr08	14630393	AA	CC	1946910932
SNP_P4_108804_14631060	NC_021167.1	Ca_kabuli_chr08	14631060	CC	TT	1946910934
SNP_P4_108805_14631108	NC_021167.1	Ca_kabuli_chr08	14631108	CC	TT	1946910936
SNP_P4_108807_14631310	NC_021167.1	Ca_kabuli_chr08	14631310	CC	TT	1946910938
SNP_P4_108808_14632006	NC_021167.1	Ca_kabuli_chr08	14632006	GG	TT	1946910940
SNP_P4_108809_14632016	NC_021167.1	Ca_kabuli_chr08	14632016	AA	TT	1946910942
SNP_P4_108810_14632030	NC_021167.1	Ca_kabuli_chr08	14632030	TT	CC	1946910944
SNP_P4_108811_14632053	NC_021167.1	Ca_kabuli_chr08	14632053	CC	AA	1946910946
SNP_P4_108814_14638092	NC_021167.1	Ca_kabuli_chr08	14638092	GG	AA	1946910948
SNP_P4_108815_14642757	NC_021167.1	Ca_kabuli_chr08	14642757	AA	GG	1946910950
SNP_P4_108816_14643118	NC_021167.1	Ca_kabuli_chr08	14643118	AA	TT	1946910952
SNP_P4_108818_14644109	NC_021167.1	Ca_kabuli_chr08	14644109	AA	TT	1946910954
SNP_P4_108819_14644376	NC_021167.1	Ca_kabuli_chr08	14644376	TT	AA	1946910956
SNP_P4_108820_14644386	NC_021167.1	Ca_kabuli_chr08	14644386	CC	TT	1946910957

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_108822_14644423	NC_021167.1	Ca_kabuli_chr08	14644423	CC	TT	1946910959
SNP_P4_108823_14644430	NC_021167.1	Ca_kabuli_chr08	14644430	GG	AA	1946910960
SNP_P4_108824_14644431	NC_021167.1	Ca_kabuli_chr08	14644431	AA	TT	1946910961
SNP_P4_108825_14644432	NC_021167.1	Ca_kabuli_chr08	14644432	TT	AA	1946910962
SNP_P4_108826_14644440	NC_021167.1	Ca_kabuli_chr08	14644440	AA	GG	1946910963
SNP_P4_108828_14645140	NC_021167.1	Ca_kabuli_chr08	14645140	TT	CC	1946910964
SNP_P4_108829_14645346	NC_021167.1	Ca_kabuli_chr08	14645346	CC	AA	1946910965
SNP_P4_108830_14645361	NC_021167.1	Ca_kabuli_chr08	14645361	TT	CC	1946910967
SNP_P4_108831_14646391	NC_021167.1	Ca_kabuli_chr08	14646391	AA	TT	1946910969
SNP_P4_108832_14646423	NC_021167.1	Ca_kabuli_chr08	14646423	AA	CC	1946910970
SNP_P4_108833_14646699	NC_021167.1	Ca_kabuli_chr08	14646699	GG	AA	1946910972
SNP_P4_108834_14646796	NC_021167.1	Ca_kabuli_chr08	14646796	GG	AA	1946910974
SNP_P4_108835_14646808	NC_021167.1	Ca_kabuli_chr08	14646808	CC	TT	1946910976
SNP_P4_108836_14646829	NC_021167.1	Ca_kabuli_chr08	14646829	GG	TT	1946910978
SNP_P4_108837_14646912	NC_021167.1	Ca_kabuli_chr08	14646912	GG	TT	1946910980
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SNP_P4_108840_14646970	NC_021167.1	Ca_kabuli_chr08	14646970	CC	AA	1946910986
SNP_P4_108841_14647135	NC_021167.1	Ca_kabuli_chr08	14647135	CC	TT	1946910988
SNP_P4_108843_14647483	NC_021167.1	Ca_kabuli_chr08	14647483	TT	AA	1946910990
SNP_P4_108844_14647792	NC_021167.1	Ca_kabuli_chr08	14647792	GG	AA	1946910992
SNP_P4_108846_14647999	NC_021167.1	Ca_kabuli_chr08	14647999	CC	TT	1946910994
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SNP_P4_108849_14648256	NC_021167.1	Ca_kabuli_chr08	14648256	CC	TT	1946910998
SNP_P4_108850_14648412	NC_021167.1	Ca_kabuli_chr08	14648412	GG	AA	1946911000
SNP_P4_108851_14649021	NC_021167.1	Ca_kabuli_chr08	14649021	GG	TT	1946911002
SNP_P4_108852_14649605	NC_021167.1	Ca_kabuli_chr08	14649605	TT	GG	1946911004
SNP_P4_108853_14649681	NC_021167.1	Ca_kabuli_chr08	14649681	AA	CC	1946911006
SNP_P4_108854_14649686	NC_021167.1	Ca_kabuli_chr08	14649686	AA	GG	1946911008
SNP_P4_108855_14649765	NC_021167.1	Ca_kabuli_chr08	14649765	TT	CC	1946911010
SNP_P4_108856_14649857	NC_021167.1	Ca_kabuli_chr08	14649857	CC	TT	1946911012
SNP_P4_108857_14649873	NC_021167.1	Ca_kabuli_chr08	14649873	TT	CC	1946911014
SNP_P4_108858_14649893	NC_021167.1	Ca_kabuli_chr08	14649893	CC	TT	1946911016
SNP_P4_108859_14649895	NC_021167.1	Ca_kabuli_chr08	14649895	CC	TT	1946911018
SNP_P4_108860_14649992	NC_021167.1	Ca_kabuli_chr08	14649992	TT	CC	1946911020
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SNP_P4_108862_14650015	NC_021167.1	Ca_kabuli_chr08	14650015	TT	CC	1946911024
SNP_P4_108863_14650125	NC_021167.1	Ca_kabuli_chr08	14650125	AA	TT	1946911026
SNP_P4_108864_14650127	NC_021167.1	Ca_kabuli_chr08	14650127	GG	AA	1946911028
SNP_P4_108865_14650157	NC_021167.1	Ca_kabuli_chr08	14650157	TT	CC	1946911030
SNP_P4_108866_14650169	NC_021167.1	Ca_kabuli_chr08	14650169	GG	AA	1946911032

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_108868_14650179	NC_021167.1	Ca_kabuli_chr08	14650179	AA	GG	1946911036
SNP_P4_108869_14650193	NC_021167.1	Ca_kabuli_chr08	14650193	TT	CC	1946911038
SNP_P4_108870_14650239	NC_021167.1	Ca_kabuli_chr08	14650239	TT	CC	1946911040
SNP_P4_108871_14650330	NC_021167.1	Ca_kabuli_chr08	14650330	GG	AA	1946911042
SNP_P4_108872_14650438	NC_021167.1	Ca_kabuli_chr08	14650438	TT	AA	1946911044
SNP_P4_108873_14652699	NC_021167.1	Ca_kabuli_chr08	14652699	CC	AA	1946911046
SNP_P4_108875_14653145	NC_021167.1	Ca_kabuli_chr08	14653145	TT	CC	1946911048
SNP_P4_108876_14653157	NC_021167.1	Ca_kabuli_chr08	14653157	AA	CC	1946911050
SNP_P4_108877_14653166	NC_021167.1	Ca_kabuli_chr08	14653166	AA	GG	1946911052
SNP_P4_108878_14655894	NC_021167.1	Ca_kabuli_chr08	14655894	GG	AA	1946911054
SNP_P4_108879_14656630	NC_021167.1	Ca_kabuli_chr08	14656630	GG	AA	1946911056
SNP_P4_108880_14656718	NC_021167.1	Ca_kabuli_chr08	14656718	GG	AA	1946911059
SNP_P4_108881_14656753	NC_021167.1	Ca_kabuli_chr08	14656753	CC	AA	1946911061
SNP_P4_108882_14656756	NC_021167.1	Ca_kabuli_chr08	14656756	TT	CC	1946911063
SNP_P4_108883_14656762	NC_021167.1	Ca_kabuli_chr08	14656762	GG	AA	1946911065
SNP_P4_108884_14657069	NC_021167.1	Ca_kabuli_chr08	14657069	AA	GG	1946911067
SNP_P4_108886_14657126	NC_021167.1	Ca_kabuli_chr08	14657126	AA	TT	1946911069
SNP_P4_108887_14658071	NC_021167.1	Ca_kabuli_chr08	14658071	GG	CC	1946911071
SNP_P4_108888_14658475	NC_021167.1	Ca_kabuli_chr08	14658475	GG	AA	1946911073
SNP_P4_108889_14658542	NC_021167.1	Ca_kabuli_chr08	14658542	GG	AA	1946911075
SNP_P4_108890_14658547	NC_021167.1	Ca_kabuli_chr08	14658547	GG	AA	1946911077
SNP_P4_108891_14658725	NC_021167.1	Ca_kabuli_chr08	14658725	CC	AA	1946911079
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SNP_P4_108893_14659356	NC_021167.1	Ca_kabuli_chr08	14659356	CC	TT	1946911083
SNP_P4_108894_14659671	NC_021167.1	Ca_kabuli_chr08	14659671	AA	GG	1946911085
SNP_P4_108895_14659762	NC_021167.1	Ca_kabuli_chr08	14659762	TT	CC	1946911087
SNP_P4_108896_14659763	NC_021167.1	Ca_kabuli_chr08	14659763	GG	CC	1946911089
SNP_P4_108897_14660089	NC_021167.1	Ca_kabuli_chr08	14660089	TT	GG	1946911091
SNP_P4_108899_14660711	NC_021167.1	Ca_kabuli_chr08	14660711	GG	AA	1946911093
SNP_P4_108900_14660713	NC_021167.1	Ca_kabuli_chr08	14660713	TT	AA	1946911095
SNP_P4_108901_14660718	NC_021167.1	Ca_kabuli_chr08	14660718	CC	AA	1946911097
SNP_P4_108903_14660766	NC_021167.1	Ca_kabuli_chr08	14660766	GG	AA	1946911099
SNP_P4_108904_14661161	NC_021167.1	Ca_kabuli_chr08	14661161	CC	GG	1946911101
SNP_P4_108905_14661298	NC_021167.1	Ca_kabuli_chr08	14661298	TT	CC	1946911103
SNP_P4_108906_14661428	NC_021167.1	Ca_kabuli_chr08	14661428	AA	TT	1946911105
SNP_P4_108907_14661439	NC_021167.1	Ca_kabuli_chr08	14661439	TT	CC	1946911107
SNP_P4_108908_14661440	NC_021167.1	Ca_kabuli_chr08	14661440	AA	CC	1946911109
SNP_P4_108909_14661453	NC_021167.1	Ca_kabuli_chr08	14661453	CC	AA	1946911111
SNP_P4_108910_14661477	NC_021167.1	Ca_kabuli_chr08	14661477	AA	CC	1946911113
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SNP_P4_108912_14661914	NC_021167.1	Ca_kabuli_chr08	14661914	GG	AA	1946911117

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_108916_14662314	NC_021167.1	Ca_kabuli_chr08	14662314	AA	CC	1946911121
SNP_P4_108917_14664395	NC_021167.1	Ca_kabuli_chr08	14664395	TT	CC	1946911123
SNP_P4_108919_14665188	NC_021167.1	Ca_kabuli_chr08	14665188	AA	TT	1946911125
SNP_P4_108920_14665189	NC_021167.1	Ca_kabuli_chr08	14665189	AA	TT	1946911127
SNP_P4_108921_14665346	NC_021167.1	Ca_kabuli_chr08	14665346	GG	TT	1946911129
SNP_P4_108922_14665365	NC_021167.1	Ca_kabuli_chr08	14665365	TT	CC	1946911131
SNP_P4_108924_14666115	NC_021167.1	Ca_kabuli_chr08	14666115	AA	GG	1946911133
SNP_P4_108925_14666331	NC_021167.1	Ca_kabuli_chr08	14666331	CC	TT	1946911136
SNP_P4_108926_14666337	NC_021167.1	Ca_kabuli_chr08	14666337	TT	AA	1946911138
SNP_P4_108927_14666646	NC_021167.1	Ca_kabuli_chr08	14666646	AA	GG	1946911140
SNP_P4_108928_14666651	NC_021167.1	Ca_kabuli_chr08	14666651	GG	AA	1946911142
SNP_P4_108929_14666729	NC_021167.1	Ca_kabuli_chr08	14666729	TT	AA	1946911144
SNP_P4_108931_14666985	NC_021167.1	Ca_kabuli_chr08	14666985	AA	TT	1946911146
SNP_P4_108932_14667021	NC_021167.1	Ca_kabuli_chr08	14667021	TT	GG	1946911148
SNP_P4_108933_14667893	NC_021167.1	Ca_kabuli_chr08	14667893	AA	GG	1946911150
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SNP_P4_108935_14668645	NC_021167.1	Ca_kabuli_chr08	14668645	AA	GG	1946911154
SNP_P4_108937_14669663	NC_021167.1	Ca_kabuli_chr08	14669663	AA	GG	1946911156
SNP_P4_108938_14669924	NC_021167.1	Ca_kabuli_chr08	14669924	TT	GG	1946911158
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SNP_P4_108947_14671414	NC_021167.1	Ca_kabuli_chr08	14671414	TT	AA	1946911174
SNP_P4_108949_14671496	NC_021167.1	Ca_kabuli_chr08	14671496	GG	AA	1946911176
SNP_P4_108951_14677115	NC_021167.1	Ca_kabuli_chr08	14677115	AA	GG	1946911178
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SNP_P4_108961_14678982	NC_021167.1	Ca_kabuli_chr08	14678982	CC	TT	1946911196
SNP_P4_108962_14680367	NC_021167.1	Ca_kabuli_chr08	14680367	GG	AA	1946911198
SNP_P4_108963_14680609	NC_021167.1	Ca_kabuli_chr08	14680609	TT	CC	1946911200
SNP_P4_108964_14680651	NC_021167.1	Ca_kabuli_chr08	14680651	CC	AA	1946911202

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_108968_14680929	NC_021167.1	Ca_kabuli_chr08	14680929	TT	AA	1946911209
SNP_P4_108969_14680960	NC_021167.1	Ca_kabuli_chr08	14680960	TT	AA	1946911211
SNP_P4_108971_14686257	NC_021167.1	Ca_kabuli_chr08	14686257	TT	GG	1946911213
SNP_P4_108972_14686797	NC_021167.1	Ca_kabuli_chr08	14686797	CC	TT	1946911215
SNP_P4_108973_14687232	NC_021167.1	Ca_kabuli_chr08	14687232	AA	GG	1946911217
SNP_P4_108974_14687684	NC_021167.1	Ca_kabuli_chr08	14687684	TT	AA	1946911219
SNP_P4_108975_14687727	NC_021167.1	Ca_kabuli_chr08	14687727	CC	TT	1946911221
SNP_P4_108977_14688128	NC_021167.1	Ca_kabuli_chr08	14688128	TT	AA	1946911223
SNP_P4_108979_14688513	NC_021167.1	Ca_kabuli_chr08	14688513	GG	AA	1946911225
SNP_P4_108981_14689094	NC_021167.1	Ca_kabuli_chr08	14689094	GG	AA	1946911227
SNP_P4_108982_14689150	NC_021167.1	Ca_kabuli_chr08	14689150	TT	AA	1946911229
SNP_P4_108983_14692350	NC_021167.1	Ca_kabuli_chr08	14692350	CC	GG	1946911231
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SNP_P4_108988_14693741	NC_021167.1	Ca_kabuli_chr08	14693741	GG	AA	1946911240
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SNP_P4_108993_14698578	NC_021167.1	Ca_kabuli_chr08	14698578	GG	AA	1946911243
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SNP_P4_109001_14701057	NC_021167.1	Ca_kabuli_chr08	14701057	GG	AA	1946911250
SNP_P4_109003_14701095	NC_021167.1	Ca_kabuli_chr08	14701095	TT	AA	1946911251
SNP_P4_109004_14701487	NC_021167.1	Ca_kabuli_chr08	14701487	CC	TT	1946911253
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SNP_P4_109006_14702092	NC_021167.1	Ca_kabuli_chr08	14702092	TT	CC	1946911257
SNP_P4_109007_14702127	NC_021167.1	Ca_kabuli_chr08	14702127	CC	TT	1946911259
SNP_P4_109008_14702458	NC_021167.1	Ca_kabuli_chr08	14702458	AA	TT	1946911261
SNP_P4_109009_14704601	NC_021167.1	Ca_kabuli_chr08	14704601	TT	CC	1946911263
SNP_P4_109010_14704602	NC_021167.1	Ca_kabuli_chr08	14704602	CC	TT	1946911265
SNP_P4_109011_14704612	NC_021167.1	Ca_kabuli_chr08	14704612	AA	TT	1946911267
SNP_P4_109012_14704987	NC_021167.1	Ca_kabuli_chr08	14704987	CC	TT	1946911269
SNP_P4_109013_14704990	NC_021167.1	Ca_kabuli_chr08	14704990	GG	AA	1946911271
SNP_P4_109014_14704991	NC_021167.1	Ca_kabuli_chr08	14704991	GG	TT	1946911273
SNP_P4_109015_14705006	NC_021167.1	Ca_kabuli_chr08	14705006	TT	CC	1946911275

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_109016_14705011	NC_021167.1	Ca_kabuli_chr08	14705011	CC	TT	1946911277
SNP_P4_109017_14705023	NC_021167.1	Ca_kabuli_chr08	14705023	AA	GG	1946911279
SNP_P4_109018_14705042	NC_021167.1	Ca_kabuli_chr08	14705042	CC	GG	1946911281
SNP_P4_109020_14706139	NC_021167.1	Ca_kabuli_chr08	14706139	TT	GG	1946911283
SNP_P4_109021_14706145	NC_021167.1	Ca_kabuli_chr08	14706145	TT	CC	1946911285
SNP_P4_109022_14706175	NC_021167.1	Ca_kabuli_chr08	14706175	TT	AA	1946911287
SNP_P4_109023_14707654	NC_021167.1	Ca_kabuli_chr08	14707654	CC	AA	1946911289
SNP_P4_109024_14707657	NC_021167.1	Ca_kabuli_chr08	14707657	TT	CC	1946911291
SNP_P4_109025_14707674	NC_021167.1	Ca_kabuli_chr08	14707674	TT	CC	1946911293
SNP_P4_109026_14707688	NC_021167.1	Ca_kabuli_chr08	14707688	GG	TT	1946911295
SNP_P4_109027_14707750	NC_021167.1	Ca_kabuli_chr08	14707750	TT	GG	1946911297
SNP_P4_109028_14707756	NC_021167.1	Ca_kabuli_chr08	14707756	GG	AA	1946911299
SNP_P4_109029_14707815	NC_021167.1	Ca_kabuli_chr08	14707815	TT	AA	1946911301
SNP_P4_109030_14707952	NC_021167.1	Ca_kabuli_chr08	14707952	AA	TT	1946911303
SNP_P4_109031_14707982	NC_021167.1	Ca_kabuli_chr08	14707982	TT	GG	1946911305
SNP_P4_109032_14708028	NC_021167.1	Ca_kabuli_chr08	14708028	CC	AA	1946911307
SNP_P4_109033_14708039	NC_021167.1	Ca_kabuli_chr08	14708039	TT	CC	1946911309
SNP_P4_109034_14708057	NC_021167.1	Ca_kabuli_chr08	14708057	TT	CC	1946911311
SNP_P4_109035_14708091	NC_021167.1	Ca_kabuli_chr08	14708091	TT	AA	1946911313
SNP_P4_109036_14708285	NC_021167.1	Ca_kabuli_chr08	14708285	CC	AA	1946911315
SNP_P4_109037_14708451	NC_021167.1	Ca_kabuli_chr08	14708451	CC	TT	1946911317
SNP_P4_109038_14709266	NC_021167.1	Ca_kabuli_chr08	14709266	CC	TT	1946911319
SNP_P4_109039_14710506	NC_021167.1	Ca_kabuli_chr08	14710506	GG	TT	1946911321
SNP_P4_109040_14711029	NC_021167.1	Ca_kabuli_chr08	14711029	CC	TT	1946911323
SNP_P4_109042_14712192	NC_021167.1	Ca_kabuli_chr08	14712192	AA	CC	1946911325
SNP_P4_109044_14713266	NC_021167.1	Ca_kabuli_chr08	14713266	TT	CC	1946911327
SNP_P4_109045_14713558	NC_021167.1	Ca_kabuli_chr08	14713558	GG	AA	1946911329
SNP_P4_109046_14714101	NC_021167.1	Ca_kabuli_chr08	14714101	AA	CC	1946911331
SNP_P4_109047_14715368	NC_021167.1	Ca_kabuli_chr08	14715368	GG	AA	1946911333
SNP_P4_109048_14716988	NC_021167.1	Ca_kabuli_chr08	14716988	AA	GG	1946911335
SNP_P4_109049_14718292	NC_021167.1	Ca_kabuli_chr08	14718292	CC	TT	1946911337
SNP_P4_109050_14719863	NC_021167.1	Ca_kabuli_chr08	14719863	CC	TT	1946911339
SNP_P4_109051_14720599	NC_021167.1	Ca_kabuli_chr08	14720599	TT	AA	1946911341
SNP_P4_109052_14720612	NC_021167.1	Ca_kabuli_chr08	14720612	GG	AA	1946911343
SNP_P4_109053_14720670	NC_021167.1	Ca_kabuli_chr08	14720670	CC	TT	1946911345
SNP_P4_109054_14720685	NC_021167.1	Ca_kabuli_chr08	14720685	AA	TT	1946911347
SNP_P4_109055_14720703	NC_021167.1	Ca_kabuli_chr08	14720703	AA	GG	1946911349
SNP_P4_109056_14720804	NC_021167.1	Ca_kabuli_chr08	14720804	GG	TT	1946911351
SNP_P4_109057_14721744	NC_021167.1	Ca_kabuli_chr08	14721744	TT	AA	1946911353
SNP_P4_109058_14721798	NC_021167.1	Ca_kabuli_chr08	14721798	AA	CC	1946911355
SNP_P4_109061_14724326	NC_021167.1	Ca_kabuli_chr08	14724326	TT	CC	1946911357
SNP_P4_109062_14724726	NC_021167.1	Ca_kabuli_chr08	14724726	TT	CC	1946911359

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_109066_14727584	NC_021167.1	Ca_kabuli_chr08	14727584	GG	CC	1946911363
SNP_P4_109067_14729155	NC_021167.1	Ca_kabuli_chr08	14729155	CC	TT	1946911365
SNP_P4_109068_14729470	NC_021167.1	Ca_kabuli_chr08	14729470	TT	CC	1946911367
SNP_P4_109069_14730226	NC_021167.1	Ca_kabuli_chr08	14730226	CC	TT	1946911369
SNP_P4_109070_14730234	NC_021167.1	Ca_kabuli_chr08	14730234	AA	GG	1946911371
SNP_P4_109071_14730286	NC_021167.1	Ca_kabuli_chr08	14730286	CC	TT	1946911373
SNP_P4_109072_14731803	NC_021167.1	Ca_kabuli_chr08	14731803	CC	TT	1946911375
SNP_P4_109073_14731827	NC_021167.1	Ca_kabuli_chr08	14731827	GG	CC	1946911377
SNP_P4_109075_14734187	NC_021167.1	Ca_kabuli_chr08	14734187	AA	TT	1946911379
SNP_P4_109077_14735180	NC_021167.1	Ca_kabuli_chr08	14735180	GG	AA	1946911381
SNP_P4_109078_14736521	NC_021167.1	Ca_kabuli_chr08	14736521	CC	AA	1946911383
SNP_P4_109079_14736756	NC_021167.1	Ca_kabuli_chr08	14736756	TT	CC	1946911385
SNP_P4_109080_14736774	NC_021167.1	Ca_kabuli_chr08	14736774	TT	CC	1946911387
SNP_P4_109081_14737388	NC_021167.1	Ca_kabuli_chr08	14737388	GG	TT	1946911389
SNP_P4_109082_14737449	NC_021167.1	Ca_kabuli_chr08	14737449	CC	TT	1946911391
SNP_P4_109083_14737627	NC_021167.1	Ca_kabuli_chr08	14737627	AA	GG	1946911393
SNP_P4_109084_14737808	NC_021167.1	Ca_kabuli_chr08	14737808	AA	TT	1946911395
SNP_P4_109085_14740003	NC_021167.1	Ca_kabuli_chr08	14740003	TT	AA	1946911397
SNP_P4_109086_14740035	NC_021167.1	Ca_kabuli_chr08	14740035	AA	GG	1946911399
SNP_P4_109087_14740054	NC_021167.1	Ca_kabuli_chr08	14740054	TT	GG	1946911401
SNP_P4_109089_14741343	NC_021167.1	Ca_kabuli_chr08	14741343	TT	AA	1946911403
SNP_P4_109090_14741608	NC_021167.1	Ca_kabuli_chr08	14741608	AA	CC	1946911405
SNP_P4_109091_14741922	NC_021167.1	Ca_kabuli_chr08	14741922	TT	CC	1946911407
SNP_P4_109092_14741945	NC_021167.1	Ca_kabuli_chr08	14741945	TT	CC	1946911409
SNP_P4_109094_14742040	NC_021167.1	Ca_kabuli_chr08	14742040	TT	CC	1946911411
SNP_P4_109096_14742083	NC_021167.1	Ca_kabuli_chr08	14742083	TT	CC	1946911413
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SNP_P4_109099_14742415	NC_021167.1	Ca_kabuli_chr08	14742415	AA	GG	1946911417
SNP_P4_109100_14744236	NC_021167.1	Ca_kabuli_chr08	14744236	TT	AA	1946911419
SNP_P4_109101_14744955	NC_021167.1	Ca_kabuli_chr08	14744955	GG	TT	1946911420
SNP_P4_109104_14748342	NC_021167.1	Ca_kabuli_chr08	14748342	GG	AA	1946911422
SNP_P4_109105_14749314	NC_021167.1	Ca_kabuli_chr08	14749314	TT	CC	1946911424
SNP_P4_109106_14749412	NC_021167.1	Ca_kabuli_chr08	14749412	AA	TT	1946911426
SNP_P4_109107_14749605	NC_021167.1	Ca_kabuli_chr08	14749605	GG	AA	1946911428
SNP_P4_109108_14749817	NC_021167.1	Ca_kabuli_chr08	14749817	AA	GG	1946911430
SNP_P4_109109_14749925	NC_021167.1	Ca_kabuli_chr08	14749925	TT	AA	1946911432
SNP_P4_109110_14749928	NC_021167.1	Ca_kabuli_chr08	14749928	TT	GG	1946911434
SNP_P4_109111_14749932	NC_021167.1	Ca_kabuli_chr08	14749932	TT	CC	1946911436
SNP_P4_109112_14749939	NC_021167.1	Ca_kabuli_chr08	14749939	AA	GG	1946911438
SNP_P4_109113_14749982	NC_021167.1	Ca_kabuli_chr08	14749982	TT	CC	1946911440
SNP_P4_109114_14749987	NC_021167.1	Ca_kabuli_chr08	14749987	AA	TT	1946911442

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_109116_14750838	NC_021167.1	Ca_kabuli_chr08	14750838	CC	TT	1946911446
SNP_P4_109117_14750872	NC_021167.1	Ca_kabuli_chr08	14750872	CC	TT	1946911448
SNP_P4_109118_14750873	NC_021167.1	Ca_kabuli_chr08	14750873	AA	GG	1946911450
SNP_P4_109120_14751012	NC_021167.1	Ca_kabuli_chr08	14751012	GG	TT	1946911452
SNP_P4_109123_14751150	NC_021167.1	Ca_kabuli_chr08	14751150	CC	TT	1946911454
SNP_P4_109124_14751425	NC_021167.1	Ca_kabuli_chr08	14751425	CC	TT	1946911456
SNP_P4_109125_14751445	NC_021167.1	Ca_kabuli_chr08	14751445	GG	CC	1946911458
SNP_P4_109126_14751468	NC_021167.1	Ca_kabuli_chr08	14751468	AA	GG	1946911460
SNP_P4_109128_14751534	NC_021167.1	Ca_kabuli_chr08	14751534	GG	TT	1946911462
SNP_P4_109129_14751537	NC_021167.1	Ca_kabuli_chr08	14751537	CC	AA	1946911464
SNP_P4_109130_14751573	NC_021167.1	Ca_kabuli_chr08	14751573	CC	TT	1946911466
SNP_P4_109131_14753132	NC_021167.1	Ca_kabuli_chr08	14753132	TT	CC	1946911468
SNP_P4_109132_14753136	NC_021167.1	Ca_kabuli_chr08	14753136	CC	TT	1946911470
SNP_P4_109133_14753138	NC_021167.1	Ca_kabuli_chr08	14753138	AA	GG	1946911472
SNP_P4_109135_14754257	NC_021167.1	Ca_kabuli_chr08	14754257	CC	GG	1946911474
SNP_P4_109136_14754299	NC_021167.1	Ca_kabuli_chr08	14754299	TT	CC	1946911476
SNP_P4_109137_14755745	NC_021167.1	Ca_kabuli_chr08	14755745	CC	TT	1946911478
SNP_P4_109138_14755770	NC_021167.1	Ca_kabuli_chr08	14755770	AA	GG	1946911480
SNP_P4_109139_14755824	NC_021167.1	Ca_kabuli_chr08	14755824	AA	TT	1946911482
SNP_P4_109140_14756065	NC_021167.1	Ca_kabuli_chr08	14756065	GG	TT	1946911484
SNP_P4_109141_14757170	NC_021167.1	Ca_kabuli_chr08	14757170	GG	AA	1946911486
SNP_P4_109143_14758178	NC_021167.1	Ca_kabuli_chr08	14758178	CC	AA	1946911488
SNP_P4_109144_14758192	NC_021167.1	Ca_kabuli_chr08	14758192	AA	GG	1946911490
SNP_P4_109147_14759239	NC_021167.1	Ca_kabuli_chr08	14759239	AA	GG	1946911493
SNP_P4_109149_14760129	NC_021167.1	Ca_kabuli_chr08	14760129	AA	TT	1946911495
SNP_P4_109150_14760722	NC_021167.1	Ca_kabuli_chr08	14760722	GG	AA	1946911497
SNP_P4_109152_14762528	NC_021167.1	Ca_kabuli_chr08	14762528	TT	CC	1946911499
SNP_P4_109153_14763988	NC_021167.1	Ca_kabuli_chr08	14763988	GG	AA	1946911501
SNP_P4_109154_14763989	NC_021167.1	Ca_kabuli_chr08	14763989	GG	AA	1946911503
SNP_P4_109155_14764052	NC_021167.1	Ca_kabuli_chr08	14764052	GG	TT	1946911505
SNP_P4_109157_14764091	NC_021167.1	Ca_kabuli_chr08	14764091	AA	TT	1946911507
SNP_P4_109158_14764098	NC_021167.1	Ca_kabuli_chr08	14764098	CC	TT	1946911509
SNP_P4_109159_14764110	NC_021167.1	Ca_kabuli_chr08	14764110	GG	AA	1946911511
SNP_P4_109160_14764133	NC_021167.1	Ca_kabuli_chr08	14764133	AA	CC	1946911513
SNP_P4_109161_14764216	NC_021167.1	Ca_kabuli_chr08	14764216	TT	CC	1946911515
SNP_P4_109162_14764493	NC_021167.1	Ca_kabuli_chr08	14764493	CC	TT	1946911517
SNP_P4_109163_14768294	NC_021167.1	Ca_kabuli_chr08	14768294	CC	GG	1946911519
SNP_P4_109165_14770133	NC_021167.1	Ca_kabuli_chr08	14770133	GG	AA	1946911521
SNP_P4_109166_14770426	NC_021167.1	Ca_kabuli_chr08	14770426	CC	GG	1946911523
SNP_P4_109167_14770472	NC_021167.1	Ca_kabuli_chr08	14770472	CC	GG	1946911525
SNP_P4_109168_14772582	NC_021167.1	Ca_kabuli_chr08	14772582	TT	CC	1946911527

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_109170_14772615	NC_021167.1	Ca_kabuli_chr08	14772615	CC	TT	1946911531
SNP_P4_109171_14773204	NC_021167.1	Ca_kabuli_chr08	14773204	GG	AA	1946911533
SNP_P4_109173_14773229	NC_021167.1	Ca_kabuli_chr08	14773229	CC	TT	1946911535
SNP_P4_109174_14773287	NC_021167.1	Ca_kabuli_chr08	14773287	AA	TT	1946911537
SNP_P4_109176_14774864	NC_021167.1	Ca_kabuli_chr08	14774864	CC	TT	1946911539
SNP_P4_109177_14774896	NC_021167.1	Ca_kabuli_chr08	14774896	CC	TT	1946911541
SNP_P4_109178_14774915	NC_021167.1	Ca_kabuli_chr08	14774915	CC	TT	1946911543
SNP_P4_109179_14774919	NC_021167.1	Ca_kabuli_chr08	14774919	GG	AA	1946911545
SNP_P4_109180_14774926	NC_021167.1	Ca_kabuli_chr08	14774926	TT	AA	1946911547
SNP_P4_109181_14774932	NC_021167.1	Ca_kabuli_chr08	14774932	CC	TT	1946911549
SNP_P4_109183_14775157	NC_021167.1	Ca_kabuli_chr08	14775157	CC	AA	1946911551
SNP_P4_109184_14775349	NC_021167.1	Ca_kabuli_chr08	14775349	GG	AA	1946911553
SNP_P4_109185_14775672	NC_021167.1	Ca_kabuli_chr08	14775672	GG	AA	1946911555
SNP_P4_109186_14776625	NC_021167.1	Ca_kabuli_chr08	14776625	GG	AA	1946911557
SNP_P4_109187_14776628	NC_021167.1	Ca_kabuli_chr08	14776628	GG	AA	1946911559
SNP_P4_109190_14776740	NC_021167.1	Ca_kabuli_chr08	14776740	GG	AA	1946911561
SNP_P4_109191_14776788	NC_021167.1	Ca_kabuli_chr08	14776788	GG	AA	1946911563
SNP_P4_109192_14776791	NC_021167.1	Ca_kabuli_chr08	14776791	CC	TT	1946911565
SNP_P4_109193_14776802	NC_021167.1	Ca_kabuli_chr08	14776802	AA	TT	1946911567
SNP_P4_109194_14776810	NC_021167.1	Ca_kabuli_chr08	14776810	CC	TT	1946911569
SNP_P4_109195_14777917	NC_021167.1	Ca_kabuli_chr08	14777917	AA	GG	1946911571
SNP_P4_109196_14778260	NC_021167.1	Ca_kabuli_chr08	14778260	CC	TT	1946911573
SNP_P4_109197_14780500	NC_021167.1	Ca_kabuli_chr08	14780500	AA	TT	1946911575
SNP_P4_109198_14780571	NC_021167.1	Ca_kabuli_chr08	14780571	AA	GG	1946911577
SNP_P4_109199_14780916	NC_021167.1	Ca_kabuli_chr08	14780916	TT	CC	1946911579
SNP_P4_109201_14781410	NC_021167.1	Ca_kabuli_chr08	14781410	GG	AA	1946911581
SNP_P4_109202_14785755	NC_021167.1	Ca_kabuli_chr08	14785755	GG	CC	1946911583
SNP_P4_109204_14788683	NC_021167.1	Ca_kabuli_chr08	14788683	TT	CC	1946911585
SNP_P4_109205_14790544	NC_021167.1	Ca_kabuli_chr08	14790544	CC	AA	1946911587
SNP_P4_109206_14793714	NC_021167.1	Ca_kabuli_chr08	14793714	TT	CC	1946911589
SNP_P4_109207_14793758	NC_021167.1	Ca_kabuli_chr08	14793758	CC	AA	1946911591
SNP_P4_109208_14794190	NC_021167.1	Ca_kabuli_chr08	14794190	TT	CC	1946911593
SNP_P4_109209_14795333	NC_021167.1	Ca_kabuli_chr08	14795333	CC	TT	1946911595
SNP_P4_109210_14795705	NC_021167.1	Ca_kabuli_chr08	14795705	CC	TT	1946911597
SNP_P4_109211_14796329	NC_021167.1	Ca_kabuli_chr08	14796329	AA	GG	1946911599
SNP_P4_109212_14796423	NC_021167.1	Ca_kabuli_chr08	14796423	TT	AA	1946911601
SNP_P4_109213_14796424	NC_021167.1	Ca_kabuli_chr08	14796424	AA	TT	1946911603
SNP_P4_109214_14797583	NC_021167.1	Ca_kabuli_chr08	14797583	CC	AA	1946911605
SNP_P4_109215_14797708	NC_021167.1	Ca_kabuli_chr08	14797708	AA	CC	1946911607
SNP_P4_109216_14799005	NC_021167.1	Ca_kabuli_chr08	14799005	CC	TT	1946911609
SNP_P4_109217_14799008	NC_021167.1	Ca_kabuli_chr08	14799008	TT	CC	1946911611

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_109219_14799819	NC_021167.1	Ca_kabuli_chr08	14799819	GG	AA	1946911615
SNP_P4_109220_14799897	NC_021167.1	Ca_kabuli_chr08	14799897	TT	CC	1946911617
SNP_P4_109221_14801951	NC_021167.1	Ca_kabuli_chr08	14801951	AA	TT	1946911619
SNP_P4_109222_14802837	NC_021167.1	Ca_kabuli_chr08	14802837	TT	CC	1946911621
SNP_P4_109223_14802886	NC_021167.1	Ca_kabuli_chr08	14802886	CC	TT	1946911623
SNP_P4_109224_14803624	NC_021167.1	Ca_kabuli_chr08	14803624	TT	GG	1946911625
SNP_P4_109225_14803643	NC_021167.1	Ca_kabuli_chr08	14803643	TT	AA	1946911627
SNP_P4_109226_14806309	NC_021167.1	Ca_kabuli_chr08	14806309	GG	CC	1946911629
SNP_P4_109228_14808336	NC_021167.1	Ca_kabuli_chr08	14808336	TT	AA	1946911631
SNP_P4_109229_14808344	NC_021167.1	Ca_kabuli_chr08	14808344	CC	AA	1946911633
SNP_P4_109230_14808359	NC_021167.1	Ca_kabuli_chr08	14808359	CC	TT	1946911635
SNP_P4_109231_14808652	NC_021167.1	Ca_kabuli_chr08	14808652	CC	TT	1946911637
SNP_P4_109232_14808733	NC_021167.1	Ca_kabuli_chr08	14808733	TT	AA	1946911639
SNP_P4_109233_14808823	NC_021167.1	Ca_kabuli_chr08	14808823	GG	AA	1946911641
SNP_P4_109236_14812272	NC_021167.1	Ca_kabuli_chr08	14812272	AA	TT	1946911643
SNP_P4_109237_14812281	NC_021167.1	Ca_kabuli_chr08	14812281	AA	GG	1946911645
SNP_P4_109238_14812293	NC_021167.1	Ca_kabuli_chr08	14812293	GG	AA	1946911647
SNP_P4_109239_14812302	NC_021167.1	Ca_kabuli_chr08	14812302	AA	GG	1946911649
SNP_P4_109240_14812306	NC_021167.1	Ca_kabuli_chr08	14812306	CC	TT	1946911651
SNP_P4_109241_14812337	NC_021167.1	Ca_kabuli_chr08	14812337	AA	GG	1946911653
SNP_P4_109242_14812351	NC_021167.1	Ca_kabuli_chr08	14812351	TT	AA	1946911655
SNP_P4_109243_14813059	NC_021167.1	Ca_kabuli_chr08	14813059	AA	GG	1946911657
SNP_P4_109244_14813071	NC_021167.1	Ca_kabuli_chr08	14813071	AA	GG	1946911659
SNP_P4_109245_14813078	NC_021167.1	Ca_kabuli_chr08	14813078	GG	TT	1946911661
SNP_P4_109246_14813081	NC_021167.1	Ca_kabuli_chr08	14813081	CC	TT	1946911663
SNP_P4_109247_14813362	NC_021167.1	Ca_kabuli_chr08	14813362	GG	AA	1946911665
SNP_P4_109248_14813414	NC_021167.1	Ca_kabuli_chr08	14813414	GG	AA	1946911667
SNP_P4_109249_14813690	NC_021167.1	Ca_kabuli_chr08	14813690	TT	CC	1946911669
SNP_P4_109250_14813713	NC_021167.1	Ca_kabuli_chr08	14813713	TT	AA	1946911671
SNP_P4_109251_14813714	NC_021167.1	Ca_kabuli_chr08	14813714	AA	CC	1946911673
SNP_P4_109253_14813841	NC_021167.1	Ca_kabuli_chr08	14813841	AA	TT	1946911675
SNP_P4_109254_14814150	NC_021167.1	Ca_kabuli_chr08	14814150	CC	AA	1946911677
SNP_P4_109256_14814368	NC_021167.1	Ca_kabuli_chr08	14814368	CC	TT	1946911679
SNP_P4_109257_14814556	NC_021167.1	Ca_kabuli_chr08	14814556	GG	AA	1946911681
SNP_P4_109260_14815853	NC_021167.1	Ca_kabuli_chr08	14815853	CC	TT	1946911683
SNP_P4_109261_14821075	NC_021167.1	Ca_kabuli_chr08	14821075	GG	AA	1946911685
SNP_P4_109262_14821083	NC_021167.1	Ca_kabuli_chr08	14821083	GG	AA	1946911687
SNP_P4_109263_14821102	NC_021167.1	Ca_kabuli_chr08	14821102	TT	AA	1946911689
SNP_P4_109264_14821160	NC_021167.1	Ca_kabuli_chr08	14821160	GG	AA	1946911691
SNP_P4_109267_14821536	NC_021167.1	Ca_kabuli_chr08	14821536	CC	GG	1946911693
SNP_P4_109268_14821538	NC_021167.1	Ca_kabuli_chr08	14821538	TT	CC	1946911695

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_109270_14822363	NC_021167.1	Ca_kabuli_chr08	14822363	AA	GG	1946911699
SNP_P4_109271_14824133	NC_021167.1	Ca_kabuli_chr08	14824133	AA	GG	1946911701
SNP_P4_109272_14824385	NC_021167.1	Ca_kabuli_chr08	14824385	TT	CC	1946911703
SNP_P4_109274_14852204	NC_021167.1	Ca_kabuli_chr08	14852204	GG	AA	1946911705
SNP_P4_109275_14852208	NC_021167.1	Ca_kabuli_chr08	14852208	AA	GG	1946911707
SNP_P4_109276_14852225	NC_021167.1	Ca_kabuli_chr08	14852225	AA	CC	1946911709
SNP_P4_109278_14859304	NC_021167.1	Ca_kabuli_chr08	14859304	CC	TT	1946911711
SNP_P4_109279_14870364	NC_021167.1	Ca_kabuli_chr08	14870364	AA	GG	1946911714
SNP_P4_109280_14879628	NC_021167.1	Ca_kabuli_chr08	14879628	TT	GG	1946911716
SNP_P4_109281_14879629	NC_021167.1	Ca_kabuli_chr08	14879629	TT	CC	1946911718
SNP_P4_109282_14883521	NC_021167.1	Ca_kabuli_chr08	14883521	GG	TT	1946911720
SNP_P4_109283_14885432	NC_021167.1	Ca_kabuli_chr08	14885432	AA	TT	1946911722
SNP_P4_109284_14885433	NC_021167.1	Ca_kabuli_chr08	14885433	CC	AA	1946911724
SNP_P4_109287_14916837	NC_021167.1	Ca_kabuli_chr08	14916837	AA	CC	1946911726
SNP_P4_109289_14921585	NC_021167.1	Ca_kabuli_chr08	14921585	AA	GG	1946911728
SNP_P4_109293_14942822	NC_021167.1	Ca_kabuli_chr08	14942822	AA	CC	1946911730
SNP_P4_109294_14951603	NC_021167.1	Ca_kabuli_chr08	14951603	AA	GG	1946911732
SNP_P4_109295_14963338	NC_021167.1	Ca_kabuli_chr08	14963338	CC	AA	1946911734
SNP_P4_109296_14989500	NC_021167.1	Ca_kabuli_chr08	14989500	AA	CC	1946911736
SNP_P4_109297_14996549	NC_021167.1	Ca_kabuli_chr08	14996549	AA	GG	1946911739
SNP_P4_109298_14997791	NC_021167.1	Ca_kabuli_chr08	14997791	AA	TT	1946911741
SNP_P4_109299_15013261	NC_021167.1	Ca_kabuli_chr08	15013261	CC	TT	1946911743
SNP_P4_109300_15052028	NC_021167.1	Ca_kabuli_chr08	15052028	TT	GG	1946911745
SNP_P4_109301_15052119	NC_021167.1	Ca_kabuli_chr08	15052119	TT	CC	1946911747
SNP_P4_109302_15052701	NC_021167.1	Ca_kabuli_chr08	15052701	TT	CC	1946911749
SNP_P4_109303_15057733	NC_021167.1	Ca_kabuli_chr08	15057733	AA	CC	1946911751
SNP_P4_109304_15058323	NC_021167.1	Ca_kabuli_chr08	15058323	AA	GG	1946911753
SNP_P4_109305_15059197	NC_021167.1	Ca_kabuli_chr08	15059197	AA	TT	1946911755
SNP_P4_109306_15078217	NC_021167.1	Ca_kabuli_chr08	15078217	CC	TT	1946911757
SNP_P4_109307_15091879	NC_021167.1	Ca_kabuli_chr08	15091879	CC	TT	1946911760
SNP_P4_109309_15093148	NC_021167.1	Ca_kabuli_chr08	15093148	AA	GG	1946911762
SNP_P4_109310_15099477	NC_021167.1	Ca_kabuli_chr08	15099477	CC	TT	1946911764
SNP_P4_109311_15099550	NC_021167.1	Ca_kabuli_chr08	15099550	GG	AA	1946911766
SNP_P4_109312_15099560	NC_021167.1	Ca_kabuli_chr08	15099560	TT	CC	1946911768
SNP_P4_109313_15099566	NC_021167.1	Ca_kabuli_chr08	15099566	AA	GG	1946911770
SNP_P4_109314_15099595	NC_021167.1	Ca_kabuli_chr08	15099595	AA	GG	1946911772
SNP_P4_109315_15099596	NC_021167.1	Ca_kabuli_chr08	15099596	AA	GG	1946911774
SNP_P4_109316_15099599	NC_021167.1	Ca_kabuli_chr08	15099599	AA	GG	1946911776
SNP_P4_109317_15100236	NC_021167.1	Ca_kabuli_chr08	15100236	CC	AA	1946911778
SNP_P4_109318_15101330	NC_021167.1	Ca_kabuli_chr08	15101330	GG	AA	1946911780
SNP_P4_109320_15112994	NC_021167.1	Ca_kabuli_chr08	15112994	TT	GG	1946911782

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_109322_15144375	NC_021167.1	Ca_kabuli_chr08	15144375	AA	TT	1946911786
SNP_P4_109323_15154725	NC_021167.1	Ca_kabuli_chr08	15154725	AA	CC	1946911788
SNP_P4_109324_15156147	NC_021167.1	Ca_kabuli_chr08	15156147	GG	AA	1946911790
SNP_P4_109326_15162431	NC_021167.1	Ca_kabuli_chr08	15162431	GG	CC	1946911792
SNP_P4_109327_15162474	NC_021167.1	Ca_kabuli_chr08	15162474	TT	GG	1946911794
SNP_P4_109328_15165486	NC_021167.1	Ca_kabuli_chr08	15165486	CC	TT	1946911796
SNP_P4_109330_15198422	NC_021167.1	Ca_kabuli_chr08	15198422	AA	GG	1946911798
SNP_P4_109331_15198611	NC_021167.1	Ca_kabuli_chr08	15198611	GG	TT	1946911800
SNP_P4_109332_15226882	NC_021167.1	Ca_kabuli_chr08	15226882	GG	AA	1946911803
SNP_P4_109333_15263647	NC_021167.1	Ca_kabuli_chr08	15263647	TT	CC	1946911805
SNP_P4_109334_15266554	NC_021167.1	Ca_kabuli_chr08	15266554	GG	CC	1946911807
SNP_P4_109335_15266718	NC_021167.1	Ca_kabuli_chr08	15266718	TT	CC	1946911809
SNP_P4_109336_15269237	NC_021167.1	Ca_kabuli_chr08	15269237	TT	AA	1946911811
SNP_P4_109337_15272012	NC_021167.1	Ca_kabuli_chr08	15272012	TT	CC	1946911813
SNP_P4_109338_15274884	NC_021167.1	Ca_kabuli_chr08	15274884	GG	AA	1946911815
SNP_P4_109339_15282717	NC_021167.1	Ca_kabuli_chr08	15282717	CC	GG	1946911817
SNP_P4_109340_15294310	NC_021167.1	Ca_kabuli_chr08	15294310	GG	AA	1946911819
SNP_P4_109341_15296134	NC_021167.1	Ca_kabuli_chr08	15296134	CC	AA	1946911821
SNP_P4_109342_15296137	NC_021167.1	Ca_kabuli_chr08	15296137	TT	CC	1946911823
SNP_P4_109343_15296139	NC_021167.1	Ca_kabuli_chr08	15296139	AA	GG	1946911825
SNP_P4_109344_15296143	NC_021167.1	Ca_kabuli_chr08	15296143	AA	TT	1946911827
SNP_P4_109345_15307635	NC_021167.1	Ca_kabuli_chr08	15307635	TT	CC	1946911829
SNP_P4_109346_15313843	NC_021167.1	Ca_kabuli_chr08	15313843	CC	TT	1946911831
SNP_P4_109347_15313849	NC_021167.1	Ca_kabuli_chr08	15313849	CC	TT	1946911833
SNP_P4_109348_15313888	NC_021167.1	Ca_kabuli_chr08	15313888	CC	TT	1946911835
SNP_P4_109349_15313894	NC_021167.1	Ca_kabuli_chr08	15313894	CC	TT	1946911837
SNP_P4_109350_15313912	NC_021167.1	Ca_kabuli_chr08	15313912	TT	CC	1946911839
SNP_P4_109351_15313954	NC_021167.1	Ca_kabuli_chr08	15313954	TT	AA	1946911841
SNP_P4_109353_15314135	NC_021167.1	Ca_kabuli_chr08	15314135	GG	AA	1946911843
SNP_P4_109354_15314175	NC_021167.1	Ca_kabuli_chr08	15314175	AA	GG	1946911845
SNP_P4_109355_15314185	NC_021167.1	Ca_kabuli_chr08	15314185	AA	CC	1946911847
SNP_P4_109356_15314249	NC_021167.1	Ca_kabuli_chr08	15314249	GG	AA	1946911849
SNP_P4_109357_15314322	NC_021167.1	Ca_kabuli_chr08	15314322	TT	GG	1946911851
SNP_P4_109358_15320069	NC_021167.1	Ca_kabuli_chr08	15320069	GG	AA	1946911853
SNP_P4_109359_15342248	NC_021167.1	Ca_kabuli_chr08	15342248	AA	TT	1946911855
SNP_P4_109360_15343861	NC_021167.1	Ca_kabuli_chr08	15343861	CC	TT	1946911857
SNP_P4_109361_15348586	NC_021167.1	Ca_kabuli_chr08	15348586	CC	GG	1946911859
SNP_P4_109362_15348918	NC_021167.1	Ca_kabuli_chr08	15348918	GG	AA	1946911861
SNP_P4_109363_15349031	NC_021167.1	Ca_kabuli_chr08	15349031	TT	CC	1946911863
SNP_P4_109364_15349056	NC_021167.1	Ca_kabuli_chr08	15349056	TT	GG	1946911865
SNP_P4_109365_15349080	NC_021167.1	Ca_kabuli_chr08	15349080	AA	GG	1946911867

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_109367_15349141	NC_021167.1	Ca_kabuli_chr08	15349141	GG	AA	1946911871
SNP_P4_109369_15421151	NC_021167.1	Ca_kabuli_chr08	15421151	GG	TT	1946911873
SNP_P4_109370_15421473	NC_021167.1	Ca_kabuli_chr08	15421473	AA	GG	1946911875
SNP_P4_109371_15424636	NC_021167.1	Ca_kabuli_chr08	15424636	GG	CC	1946911877
SNP_P4_109372_15428137	NC_021167.1	Ca_kabuli_chr08	15428137	AA	GG	1946911879
SNP_P4_109373_15433010	NC_021167.1	Ca_kabuli_chr08	15433010	CC	TT	1946911881
SNP_P4_109375_15437730	NC_021167.1	Ca_kabuli_chr08	15437730	GG	AA	1946911883
SNP_P4_109376_15445373	NC_021167.1	Ca_kabuli_chr08	15445373	CC	TT	1946911885
SNP_P4_109378_15471621	NC_021167.1	Ca_kabuli_chr08	15471621	TT	CC	1946911887
SNP_P4_109379_15532407	NC_021167.1	Ca_kabuli_chr08	15532407	TT	CC	1946911889
SNP_P4_109381_15576984	NC_021167.1	Ca_kabuli_chr08	15576984	AA	GG	1946911891
SNP_P4_109382_15577101	NC_021167.1	Ca_kabuli_chr08	15577101	AA	TT	1946911893
SNP_P4_109383_15577292	NC_021167.1	Ca_kabuli_chr08	15577292	AA	CC	1946911895
SNP_P4_109384_15577828	NC_021167.1	Ca_kabuli_chr08	15577828	CC	GG	1946911897
SNP_P4_109385_15577833	NC_021167.1	Ca_kabuli_chr08	15577833	CC	AA	1946911899
SNP_P4_109386_15577841	NC_021167.1	Ca_kabuli_chr08	15577841	AA	CC	1946911901
SNP_P4_109388_15577907	NC_021167.1	Ca_kabuli_chr08	15577907	TT	CC	1946911903
SNP_P4_109389_15578042	NC_021167.1	Ca_kabuli_chr08	15578042	CC	TT	1946911905
SNP_P4_109390_15578303	NC_021167.1	Ca_kabuli_chr08	15578303	CC	AA	1946911907
SNP_P4_109392_15579335	NC_021167.1	Ca_kabuli_chr08	15579335	GG	TT	1946911909
SNP_P4_109393_15579728	NC_021167.1	Ca_kabuli_chr08	15579728	AA	GG	1946911911
SNP_P4_109394_15579799	NC_021167.1	Ca_kabuli_chr08	15579799	GG	AA	1946911913
SNP_P4_109396_15580638	NC_021167.1	Ca_kabuli_chr08	15580638	AA	GG	1946911915
SNP_P4_109397_15580850	NC_021167.1	Ca_kabuli_chr08	15580850	CC	TT	1946911917
SNP_P4_109398_15580860	NC_021167.1	Ca_kabuli_chr08	15580860	CC	TT	1946911919
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SNP_P4_109400_15600957	NC_021167.1	Ca_kabuli_chr08	15600957	TT	AA	1946911923
SNP_P4_109401_15657636	NC_021167.1	Ca_kabuli_chr08	15657636	CC	TT	1946911925
SNP_P4_109402_15666924	NC_021167.1	Ca_kabuli_chr08	15666924	TT	AA	1946911927
SNP_P4_109403_15681784	NC_021167.1	Ca_kabuli_chr08	15681784	CC	GG	1946911929
SNP_P4_109404_15681921	NC_021167.1	Ca_kabuli_chr08	15681921	AA	TT	1946911931
SNP_P4_109405_15682135	NC_021167.1	Ca_kabuli_chr08	15682135	TT	CC	1946911933
SNP_P4_109406_15682147	NC_021167.1	Ca_kabuli_chr08	15682147	AA	CC	1946911935
SNP_P4_109407_15683897	NC_021167.1	Ca_kabuli_chr08	15683897	AA	GG	1946911937
SNP_P4_109408_15683901	NC_021167.1	Ca_kabuli_chr08	15683901	AA	CC	1946911939
SNP_P4_109409_15684835	NC_021167.1	Ca_kabuli_chr08	15684835	AA	GG	1946911942
SNP_P4_109411_15685083	NC_021167.1	Ca_kabuli_chr08	15685083	TT	CC	1946911944
SNP_P4_109412_15685156	NC_021167.1	Ca_kabuli_chr08	15685156	AA	GG	1946911946
SNP_P4_109414_15685308	NC_021167.1	Ca_kabuli_chr08	15685308	TT	CC	1946911948
SNP_P4_109416_15685414	NC_021167.1	Ca_kabuli_chr08	15685414	CC	TT	1946911950
SNP_P4_109418_15685663	NC_021167.1	Ca_kabuli_chr08	15685663	TT	CC	1946911952

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_109422_15685922	NC_021167.1	Ca_kabuli_chr08	15685922	GG	CC	1946911956
SNP_P4_109423_15685957	NC_021167.1	Ca_kabuli_chr08	15685957	AA	GG	1946911958
SNP_P4_109424_15685998	NC_021167.1	Ca_kabuli_chr08	15685998	AA	GG	1946911960
SNP_P4_109425_15685999	NC_021167.1	Ca_kabuli_chr08	15685999	AA	TT	1946911962
SNP_P4_109426_15686000	NC_021167.1	Ca_kabuli_chr08	15686000	GG	CC	1946911964
SNP_P4_109427_15686004	NC_021167.1	Ca_kabuli_chr08	15686004	AA	TT	1946911966
SNP_P4_109428_15686009	NC_021167.1	Ca_kabuli_chr08	15686009	AA	TT	1946911968
SNP_P4_109429_15686010	NC_021167.1	Ca_kabuli_chr08	15686010	AA	CC	1946911970
SNP_P4_109430_15686011	NC_021167.1	Ca_kabuli_chr08	15686011	AA	CC	1946911972
SNP_P4_109431_15686012	NC_021167.1	Ca_kabuli_chr08	15686012	CC	AA	1946911974
SNP_P4_109432_15686013	NC_021167.1	Ca_kabuli_chr08	15686013	TT	AA	1946911976
SNP_P4_109433_15688206	NC_021167.1	Ca_kabuli_chr08	15688206	AA	TT	1946911978
SNP_P4_109434_15689022	NC_021167.1	Ca_kabuli_chr08	15689022	CC	TT	1946911980
SNP_P4_109435_15689034	NC_021167.1	Ca_kabuli_chr08	15689034	CC	TT	1946911982
SNP_P4_109436_15689137	NC_021167.1	Ca_kabuli_chr08	15689137	AA	TT	1946911984
SNP_P4_109437_15689376	NC_021167.1	Ca_kabuli_chr08	15689376	CC	TT	1946911986
SNP_P4_109438_15689673	NC_021167.1	Ca_kabuli_chr08	15689673	AA	CC	1946911988
SNP_P4_109439_15691056	NC_021167.1	Ca_kabuli_chr08	15691056	TT	CC	1946911990
SNP_P4_109440_15691466	NC_021167.1	Ca_kabuli_chr08	15691466	AA	GG	1946911992
SNP_P4_109441_15691700	NC_021167.1	Ca_kabuli_chr08	15691700	GG	AA	1946911994
SNP_P4_109442_15692070	NC_021167.1	Ca_kabuli_chr08	15692070	GG	AA	1946911996
SNP_P4_109443_15692243	NC_021167.1	Ca_kabuli_chr08	15692243	GG	AA	1946911998
SNP_P4_109444_15693803	NC_021167.1	Ca_kabuli_chr08	15693803	TT	CC	1946912000
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SNP_P4_109453_15778713	NC_021167.1	Ca_kabuli_chr08	15778713	CC	AA	1946912012
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SNP_P4_109459_15790970	NC_021167.1	Ca_kabuli_chr08	15790970	CC	TT	1946912020
SNP_P4_109460_15791130	NC_021167.1	Ca_kabuli_chr08	15791130	GG	TT	1946912022
SNP_P4_109461_15791181	NC_021167.1	Ca_kabuli_chr08	15791181	GG	AA	1946912024
SNP_P4_109462_15791206	NC_021167.1	Ca_kabuli_chr08	15791206	TT	CC	1946912026
SNP_P4_109464_15791360	NC_021167.1	Ca_kabuli_chr08	15791360	TT	AA	1946912028
SNP_P4_109465_15797555	NC_021167.1	Ca_kabuli_chr08	15797555	CC	GG	1946912031
SNP_P4_109466_15802597	NC_021167.1	Ca_kabuli_chr08	15802597	TT	CC	1946912033
SNP_P4_109467_15815668	NC_021167.1	Ca_kabuli_chr08	15815668	CC	TT	1946912035
SNP_P4_109469_15829967	NC_021167.1	Ca_kabuli_chr08	15829967	GG	TT	1946912037

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_109472_15850392	NC_021167.1	Ca_kabuli_chr08	15850392	GG	AA	1946912043
SNP_P4_109473_15850404	NC_021167.1	Ca_kabuli_chr08	15850404	AA	TT	1946912045
SNP_P4_109474_15850493	NC_021167.1	Ca_kabuli_chr08	15850493	AA	GG	1946912047
SNP_P4_109475_15850511	NC_021167.1	Ca_kabuli_chr08	15850511	AA	GG	1946912049
SNP_P4_109476_15850739	NC_021167.1	Ca_kabuli_chr08	15850739	GG	CC	1946912051
SNP_P4_109480_15876818	NC_021167.1	Ca_kabuli_chr08	15876818	CC	TT	1946912053
SNP_P4_109481_15877482	NC_021167.1	Ca_kabuli_chr08	15877482	GG	AA	1946912055
SNP_P4_109482_15877503	NC_021167.1	Ca_kabuli_chr08	15877503	CC	TT	1946912057
SNP_P4_109483_15877557	NC_021167.1	Ca_kabuli_chr08	15877557	TT	CC	1946912059
SNP_P4_109486_15879885	NC_021167.1	Ca_kabuli_chr08	15879885	AA	GG	1946912061
SNP_P4_109487_15879896	NC_021167.1	Ca_kabuli_chr08	15879896	TT	AA	1946912063
SNP_P4_109488_15879931	NC_021167.1	Ca_kabuli_chr08	15879931	GG	TT	1946912065
SNP_P4_109490_15880258	NC_021167.1	Ca_kabuli_chr08	15880258	TT	CC	1946912067
SNP_P4_109491_15880352	NC_021167.1	Ca_kabuli_chr08	15880352	TT	CC	1946912069
SNP_P4_109492_15880368	NC_021167.1	Ca_kabuli_chr08	15880368	GG	CC	1946912071
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SNP_P4_109498_15881083	NC_021167.1	Ca_kabuli_chr08	15881083	GG	AA	1946912081
SNP_P4_109500_15881572	NC_021167.1	Ca_kabuli_chr08	15881572	AA	GG	1946912083
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SNP_P4_109502_15881624	NC_021167.1	Ca_kabuli_chr08	15881624	CC	TT	1946912087
SNP_P4_109503_15881914	NC_021167.1	Ca_kabuli_chr08	15881914	AA	GG	1946912089
SNP_P4_109504_15881994	NC_021167.1	Ca_kabuli_chr08	15881994	TT	CC	1946912091
SNP_P4_109505_15882018	NC_021167.1	Ca_kabuli_chr08	15882018	TT	CC	1946912093
SNP_P4_109506_15882028	NC_021167.1	Ca_kabuli_chr08	15882028	CC	GG	1946912095
SNP_P4_109507_15882556	NC_021167.1	Ca_kabuli_chr08	15882556	GG	AA	1946912097
SNP_P4_109508_15883378	NC_021167.1	Ca_kabuli_chr08	15883378	GG	TT	1946912099
SNP_P4_109511_15890845	NC_021167.1	Ca_kabuli_chr08	15890845	TT	AA	1946912102
SNP_P4_109512_15891242	NC_021167.1	Ca_kabuli_chr08	15891242	AA	CC	1946912104
SNP_P4_109513_15891404	NC_021167.1	Ca_kabuli_chr08	15891404	TT	CC	1946912106
SNP_P4_109514_15892437	NC_021167.1	Ca_kabuli_chr08	15892437	CC	TT	1946912108
SNP_P4_109515_15892506	NC_021167.1	Ca_kabuli_chr08	15892506	GG	TT	1946912110
SNP_P4_109516_15892608	NC_021167.1	Ca_kabuli_chr08	15892608	TT	CC	1946912112
SNP_P4_109517_15892746	NC_021167.1	Ca_kabuli_chr08	15892746	CC	AA	1946912114
SNP_P4_109519_15892800	NC_021167.1	Ca_kabuli_chr08	15892800	CC	TT	1946912116
SNP_P4_109520_15892802	NC_021167.1	Ca_kabuli_chr08	15892802	CC	AA	1946912118
SNP_P4_109521_15892808	NC_021167.1	Ca_kabuli_chr08	15892808	TT	GG	1946912121
SNP_P4_109522_15893116	NC_021167.1	Ca_kabuli_chr08	15893116	AA	GG	1946912123

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_109524_15893369	NC_021167.1	Ca_kabuli_chr08	15893369	AA	CC	1946912127
SNP_P4_109527_15894675	NC_021167.1	Ca_kabuli_chr08	15894675	AA	GG	1946912129
SNP_P4_109529_15897593	NC_021167.1	Ca_kabuli_chr08	15897593	AA	GG	1946912131
SNP_P4_109531_15918362	NC_021167.1	Ca_kabuli_chr08	15918362	CC	TT	1946912133
SNP_P4_109532_15918519	NC_021167.1	Ca_kabuli_chr08	15918519	AA	CC	1946912135
SNP_P4_109533_15918537	NC_021167.1	Ca_kabuli_chr08	15918537	GG	AA	1946912137
SNP_P4_109534_15921617	NC_021167.1	Ca_kabuli_chr08	15921617	AA	GG	1946912139
SNP_P4_109535_15922447	NC_021167.1	Ca_kabuli_chr08	15922447	CC	TT	1946912141
SNP_P4_109536_15925610	NC_021167.1	Ca_kabuli_chr08	15925610	TT	AA	1946912143
SNP_P4_109537_15925611	NC_021167.1	Ca_kabuli_chr08	15925611	TT	AA	1946912145
SNP_P4_109538_15925612	NC_021167.1	Ca_kabuli_chr08	15925612	TT	AA	1946912147
SNP_P4_109539_15925613	NC_021167.1	Ca_kabuli_chr08	15925613	TT	AA	1946912150
SNP_P4_109542_15972247	NC_021167.1	Ca_kabuli_chr08	15972247	CC	TT	1946912152
SNP_P4_109543_15972256	NC_021167.1	Ca_kabuli_chr08	15972256	CC	TT	1946912154
SNP_P4_109544_15972283	NC_021167.1	Ca_kabuli_chr08	15972283	AA	CC	1946912156
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SNP_P4_109546_15972397	NC_021167.1	Ca_kabuli_chr08	15972397	CC	TT	1946912160
SNP_P4_109547_15972400	NC_021167.1	Ca_kabuli_chr08	15972400	TT	CC	1946912162
SNP_P4_109548_15972407	NC_021167.1	Ca_kabuli_chr08	15972407	TT	AA	1946912164
SNP_P4_109549_15972493	NC_021167.1	Ca_kabuli_chr08	15972493	TT	CC	1946912166
SNP_P4_109550_15972502	NC_021167.1	Ca_kabuli_chr08	15972502	CC	AA	1946912168
SNP_P4_109551_15972510	NC_021167.1	Ca_kabuli_chr08	15972510	TT	AA	1946912169
SNP_P4_109552_15972529	NC_021167.1	Ca_kabuli_chr08	15972529	CC	TT	1946912170
SNP_P4_109553_15972680	NC_021167.1	Ca_kabuli_chr08	15972680	AA	TT	1946912171
SNP_P4_109554_15972683	NC_021167.1	Ca_kabuli_chr08	15972683	TT	CC	1946912172
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SNP_P4_109556_15972686	NC_021167.1	Ca_kabuli_chr08	15972686	AA	GG	1946912174
SNP_P4_109557_15972754	NC_021167.1	Ca_kabuli_chr08	15972754	GG	AA	1946912175
SNP_P4_109558_15972759	NC_021167.1	Ca_kabuli_chr08	15972759	GG	AA	1946912176
SNP_P4_109559_15972809	NC_021167.1	Ca_kabuli_chr08	15972809	AA	GG	1946912177
SNP_P4_109560_15972816	NC_021167.1	Ca_kabuli_chr08	15972816	TT	AA	1946912179
SNP_P4_109561_15972837	NC_021167.1	Ca_kabuli_chr08	15972837	AA	CC	1946912181
SNP_P4_109562_15972856	NC_021167.1	Ca_kabuli_chr08	15972856	GG	TT	1946912183
SNP_P4_109563_15972910	NC_021167.1	Ca_kabuli_chr08	15972910	AA	GG	1946912185
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SNP_P4_109565_15974087	NC_021167.1	Ca_kabuli_chr08	15974087	CC	AA	1946912189
SNP_P4_109566_15974088	NC_021167.1	Ca_kabuli_chr08	15974088	TT	GG	1946912191
SNP_P4_109568_15977133	NC_021167.1	Ca_kabuli_chr08	15977133	GG	AA	1946912193
SNP_P4_109569_16000359	NC_021167.1	Ca_kabuli_chr08	16000359	CC	TT	1946912195
SNP_P4_109570_16029175	NC_021167.1	Ca_kabuli_chr08	16029175	GG	AA	1946912197
SNP_P4_109572_16058386	NC_021167.1	Ca_kabuli_chr08	16058386	GG	AA	1946912199

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_109576_16081988	NC_021167.1	Ca_kabuli_chr08	16081988	AA	GG	1946912205
SNP_P4_109577_16125567	NC_021167.1	Ca_kabuli_chr08	16125567	CC	TT	1946912207
SNP_P4_109580_16187331	NC_021167.1	Ca_kabuli_chr08	16187331	CC	TT	1946912209
SNP_P4_109581_16197450	NC_021167.1	Ca_kabuli_chr08	16197450	AA	TT	1946912211
SNP_P4_109582_16203067	NC_021167.1	Ca_kabuli_chr08	16203067	AA	GG	1946912213
SNP_P4_109583_16204215	NC_021167.1	Ca_kabuli_chr08	16204215	CC	TT	1946912215
SNP_P4_109584_16212751	NC_021167.1	Ca_kabuli_chr08	16212751	TT	GG	1946912217
SNP_P4_109585_16212770	NC_021167.1	Ca_kabuli_chr08	16212770	AA	GG	1946912219
SNP_P4_109586_16212786	NC_021167.1	Ca_kabuli_chr08	16212786	TT	GG	1946912221
SNP_P4_109587_16213163	NC_021167.1	Ca_kabuli_chr08	16213163	AA	TT	1946912223
SNP_P4_109588_16213286	NC_021167.1	Ca_kabuli_chr08	16213286	AA	GG	1946912225
SNP_P4_109589_16213301	NC_021167.1	Ca_kabuli_chr08	16213301	TT	CC	1946912227
SNP_P4_109591_16252788	NC_021167.1	Ca_kabuli_chr08	16252788	AA	CC	1946912229
SNP_P4_109592_16253814	NC_021167.1	Ca_kabuli_chr08	16253814	AA	GG	1946912231
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SNP_P4_109595_16314817	NC_021167.1	Ca_kabuli_chr08	16314817	AA	TT	1946912237
SNP_P4_109596_16314828	NC_021167.1	Ca_kabuli_chr08	16314828	AA	GG	1946912239
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SNP_P4_109599_16314906	NC_021167.1	Ca_kabuli_chr08	16314906	AA	GG	1946912245
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SNP_P4_109608_16316012	NC_021167.1	Ca_kabuli_chr08	16316012	TT	AA	1946912257
SNP_P4_109610_16316556	NC_021167.1	Ca_kabuli_chr08	16316556	AA	TT	1946912259
SNP_P4_109611_16316708	NC_021167.1	Ca_kabuli_chr08	16316708	AA	GG	1946912261
SNP_P4_109612_16316721	NC_021167.1	Ca_kabuli_chr08	16316721	TT	CC	1946912263
SNP_P4_109613_16316747	NC_021167.1	Ca_kabuli_chr08	16316747	TT	GG	1946912265
SNP_P4_109614_16316780	NC_021167.1	Ca_kabuli_chr08	16316780	GG	AA	1946912267
SNP_P4_109615_16316848	NC_021167.1	Ca_kabuli_chr08	16316848	TT	CC	1946912269
SNP_P4_109617_16356872	NC_021167.1	Ca_kabuli_chr08	16356872	GG	AA	1946912271
SNP_P4_109619_16363043	NC_021167.1	Ca_kabuli_chr08	16363043	AA	GG	1946912273
SNP_P4_109620_16444987	NC_021167.1	Ca_kabuli_chr08	16444987	GG	TT	1946912275
SNP_P4_109621_16463510	NC_021167.1	Ca_kabuli_chr08	16463510	TT	CC	1946912277
SNP_P4_109622_16463566	NC_021167.1	Ca_kabuli_chr08	16463566	TT	GG	1946912279
SNP_P4_109623_16463569	NC_021167.1	Ca_kabuli_chr08	16463569	CC	TT	1946912281
SNP_P4_109624_16463581	NC_021167.1	Ca_kabuli_chr08	16463581	AA	GG	1946912283

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_109627_16463644	NC_021167.1	Ca_kabuli_chr08	16463644	AA	TT	1946912289
SNP_P4_109628_16463662	NC_021167.1	Ca_kabuli_chr08	16463662	TT	CC	1946912291
SNP_P4_109629_16463680	NC_021167.1	Ca_kabuli_chr08	16463680	AA	TT	1946912293
SNP_P4_109630_16463686	NC_021167.1	Ca_kabuli_chr08	16463686	AA	GG	1946912295
SNP_P4_109631_16463695	NC_021167.1	Ca_kabuli_chr08	16463695	TT	GG	1946912297
SNP_P4_109632_16463701	NC_021167.1	Ca_kabuli_chr08	16463701	AA	TT	1946912299
SNP_P4_109633_16463733	NC_021167.1	Ca_kabuli_chr08	16463733	AA	GG	1946912301
SNP_P4_109634_16463743	NC_021167.1	Ca_kabuli_chr08	16463743	AA	TT	1946912303
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SNP_P4_109636_16463764	NC_021167.1	Ca_kabuli_chr08	16463764	AA	GG	1946912307
SNP_P4_109637_16463794	NC_021167.1	Ca_kabuli_chr08	16463794	GG	TT	1946912309
SNP_P4_109638_16463797	NC_021167.1	Ca_kabuli_chr08	16463797	TT	AA	1946912311
SNP_P4_109639_16463802	NC_021167.1	Ca_kabuli_chr08	16463802	GG	AA	1946912313
SNP_P4_109640_16463806	NC_021167.1	Ca_kabuli_chr08	16463806	AA	GG	1946912315
SNP_P4_109641_16463873	NC_021167.1	Ca_kabuli_chr08	16463873	CC	TT	1946912317
SNP_P4_109642_16463923	NC_021167.1	Ca_kabuli_chr08	16463923	AA	GG	1946912319
SNP_P4_109643_16463964	NC_021167.1	Ca_kabuli_chr08	16463964	AA	TT	1946912321
SNP_P4_109644_16463984	NC_021167.1	Ca_kabuli_chr08	16463984	GG	AA	1946912323
SNP_P4_109645_16463991	NC_021167.1	Ca_kabuli_chr08	16463991	CC	AA	1946912325
SNP_P4_109646_16463992	NC_021167.1	Ca_kabuli_chr08	16463992	AA	TT	1946912327
SNP_P4_109647_16464427	NC_021167.1	Ca_kabuli_chr08	16464427	GG	AA	1946912329
SNP_P4_109648_16464478	NC_021167.1	Ca_kabuli_chr08	16464478	TT	CC	1946912331
SNP_P4_109649_16464481	NC_021167.1	Ca_kabuli_chr08	16464481	CC	TT	1946912333
SNP_P4_109650_16464661	NC_021167.1	Ca_kabuli_chr08	16464661	AA	TT	1946912335
SNP_P4_109651_16465023	NC_021167.1	Ca_kabuli_chr08	16465023	AA	GG	1946912337
SNP_P4_109654_16473139	NC_021167.1	Ca_kabuli_chr08	16473139	TT	CC	1946912339
SNP_P4_109655_3713	NW_004515637.1	Scaffold2	3713	GG	AA	1946912341
SNP_P4_109656_3735	NW_004515637.1	Scaffold2	3735	TT	AA	1946912343
SNP_P4_109657_3888	NW_004515637.1	Scaffold2	3888	AA	CC	1946912345
SNP_P4_109658_4076	NW_004515637.1	Scaffold2	4076	TT	CC	1946912347
SNP_P4_109659_4079	NW_004515637.1	Scaffold2	4079	AA	GG	1946912349
SNP_P4_109660_4100	NW_004515637.1	Scaffold2	4100	AA	GG	1946912351
SNP_P4_109661_4124	NW_004515637.1	Scaffold2	4124	CC	AA	1946912353
SNP_P4_109662_4132	NW_004515637.1	Scaffold2	4132	GG	AA	1946912355
SNP_P4_109663_4554	NW_004515637.1	Scaffold2	4554	AA	TT	1946912357
SNP_P4_109664_4557	NW_004515637.1	Scaffold2	4557	CC	GG	1946912359
SNP_P4_109665_5463	NW_004515637.1	Scaffold2	5463	AA	GG	1946912361
SNP_P4_109666_8125	NW_004515637.1	Scaffold2	8125	TT	CC	1946912363
SNP_P4_109668_8177	NW_004515637.1	Scaffold2	8177	CC	TT	1946912365
SNP_P4_109669_8192	NW_004515637.1	Scaffold2	8192	CC	TT	1946912367

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_109670_8258	NW_004515637.1	Scaffold2	8258	AA	GG	1946912369
SNP_P4_109671_8423	NW_004515637.1	Scaffold2	8423	GG	TT	1946912371
SNP_P4_109672_9889	NW_004515637.1	Scaffold2	9889	CC	GG	1946912373
SNP_P4_109673_9922	NW_004515637.1	Scaffold2	9922	GG	AA	1946912375
SNP_P4_109674_25272	NW_004515637.1	Scaffold2	25272	AA	GG	1946912377
SNP_P4_109675_27673	NW_004515637.1	Scaffold2	27673	CC	TT	1946912379
SNP_P4_109676_33144	NW_004515637.1	Scaffold2	33144	AA	GG	1946912381
SNP_P4_109678_39086	NW_004515637.1	Scaffold2	39086	CC	TT	1946912383
SNP_P4_109679_40576	NW_004515637.1	Scaffold2	40576	GG	AA	1946912385
SNP_P4_109680_43914	NW_004515637.1	Scaffold2	43914	AA	CC	1946912387
SNP_P4_109681_43931	NW_004515637.1	Scaffold2	43931	AA	GG	1946912389
SNP_P4_109682_44025	NW_004515637.1	Scaffold2	44025	AA	GG	1946912391
SNP_P4_109683_44333	NW_004515637.1	Scaffold2	44333	AA	TT	1946912393
SNP_P4_109684_50972	NW_004515637.1	Scaffold2	50972	AA	GG	1946912395
SNP_P4_109685_51034	NW_004515637.1	Scaffold2	51034	CC	GG	1946912397
SNP_P4_109686_55923	NW_004515637.1	Scaffold2	55923	CC	GG	1946912399
SNP_P4_109687_67606	NW_004515637.1	Scaffold2	67606	AA	CC	1946912401
SNP_P4_109688_69827	NW_004515637.1	Scaffold2	69827	CC	TT	1946912403
SNP_P4_109690_69935	NW_004515637.1	Scaffold2	69935	GG	TT	1946912405
SNP_P4_109691_69942	NW_004515637.1	Scaffold2	69942	AA	GG	1946912407
SNP_P4_109692_70024	NW_004515637.1	Scaffold2	70024	CC	GG	1946912409
SNP_P4_109693_70053	NW_004515637.1	Scaffold2	70053	AA	TT	1946912411
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SNP_P4_109697_71816	NW_004515637.1	Scaffold2	71816	TT	CC	1946912419
SNP_P4_109698_78949	NW_004515637.1	Scaffold2	78949	GG	TT	1946912421
SNP_P4_109699_79376	NW_004515637.1	Scaffold2	79376	TT	CC	1946912423
SNP_P4_109700_79444	NW_004515637.1	Scaffold2	79444	CC	AA	1946912425
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SNP_P4_109705_83921	NW_004515637.1	Scaffold2	83921	CC	GG	1946912435
SNP_P4_109706_83922	NW_004515637.1	Scaffold2	83922	AA	GG	1946912437
SNP_P4_109707_84006	NW_004515637.1	Scaffold2	84006	AA	TT	1946912439
SNP_P4_109708_87291	NW_004515637.1	Scaffold2	87291	AA	TT	1946912441
SNP_P4_109709_103927	NW_004515637.1	Scaffold2	103927	CC	TT	1946912443
SNP_P4_109710_103938	NW_004515637.1	Scaffold2	103938	TT	CC	1946912445
SNP_P4_109711_103978	NW_004515637.1	Scaffold2	103978	AA	CC	1946912447
SNP_P4_109712_103982	NW_004515637.1	Scaffold2	103982	TT	CC	1946912449
SNP_P4_109713_103996	NW_004515637.1	Scaffold2	103996	CC	TT	1946912451

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_109716_170643	NW_004515637.1	Scaffold2	170643	TT	CC	1946912457
SNP_P4_109717_182263	NW_004515637.1	Scaffold2	182263	AA	GG	1946912459
SNP_P4_109718_190860	NW_004515637.1	Scaffold2	190860	TT	AA	1946912461
SNP_P4_109719_200217	NW_004515637.1	Scaffold2	200217	AA	GG	1946912463
SNP_P4_109720_207920	NW_004515637.1	Scaffold2	207920	TT	AA	1946912465
SNP_P4_109721_210602	NW_004515637.1	Scaffold2	210602	AA	GG	1946912467
SNP_P4_109722_210691	NW_004515637.1	Scaffold2	210691	AA	GG	1946912469
SNP_P4_109723_210714	NW_004515637.1	Scaffold2	210714	AA	CC	1946912471
SNP_P4_109724_210733	NW_004515637.1	Scaffold2	210733	GG	AA	1946912473
SNP_P4_109725_210955	NW_004515637.1	Scaffold2	210955	GG	AA	1946912475
SNP_P4_109726_210970	NW_004515637.1	Scaffold2	210970	CC	TT	1946912477
SNP_P4_109727_210980	NW_004515637.1	Scaffold2	210980	TT	AA	1946912479
SNP_P4_109728_211599	NW_004515637.1	Scaffold2	211599	TT	GG	1946912481
SNP_P4_109729_211903	NW_004515637.1	Scaffold2	211903	TT	CC	1946912483
SNP_P4_109730_211930	NW_004515637.1	Scaffold2	211930	GG	CC	1946912485
SNP_P4_109731_211988	NW_004515637.1	Scaffold2	211988	TT	CC	1946912487
SNP_P4_109732_212230	NW_004515637.1	Scaffold2	212230	GG	TT	1946912489
SNP_P4_109733_212349	NW_004515637.1	Scaffold2	212349	GG	CC	1946912491
SNP_P4_109734_226251	NW_004515637.1	Scaffold2	226251	TT	CC	1946912493
SNP_P4_109735_226281	NW_004515637.1	Scaffold2	226281	TT	CC	1946912495
SNP_P4_109736_226291	NW_004515637.1	Scaffold2	226291	TT	CC	1946912497
SNP_P4_109737_226351	NW_004515637.1	Scaffold2	226351	AA	TT	1946912499
SNP_P4_109738_238255	NW_004515637.1	Scaffold2	238255	AA	CC	1946912501
SNP_P4_109739_238260	NW_004515637.1	Scaffold2	238260	AA	GG	1946912503
SNP_P4_109740_238326	NW_004515637.1	Scaffold2	238326	TT	GG	1946912505
SNP_P4_109741_239200	NW_004515637.1	Scaffold2	239200	GG	AA	1946912507
SNP_P4_109742_239219	NW_004515637.1	Scaffold2	239219	GG	AA	1946912509
SNP_P4_109743_239221	NW_004515637.1	Scaffold2	239221	GG	AA	1946912511
SNP_P4_109744_239265	NW_004515637.1	Scaffold2	239265	CC	TT	1946912513
SNP_P4_109745_286943	NW_004515637.1	Scaffold2	286943	AA	GG	1946912515
SNP_P4_109746_293825	NW_004515637.1	Scaffold2	293825	TT	AA	1946912517
SNP_P4_109747_303457	NW_004515637.1	Scaffold2	303457	GG	TT	1946912519
SNP_P4_109748_303482	NW_004515637.1	Scaffold2	303482	TT	AA	1946912521
SNP_P4_109749_323581	NW_004515637.1	Scaffold2	323581	CC	TT	1946912523
SNP_P4_109750_323590	NW_004515637.1	Scaffold2	323590	CC	TT	1946912525
SNP_P4_109751_338613	NW_004515637.1	Scaffold2	338613	CC	TT	1946912527
SNP_P4_109752_344753	NW_004515637.1	Scaffold2	344753	TT	AA	1946912529
SNP_P4_109753_354037	NW_004515637.1	Scaffold2	354037	AA	TT	1946912531
SNP_P4_109754_357839	NW_004515637.1	Scaffold2	357839	TT	CC	1946912533
SNP_P4_109755_357858	NW_004515637.1	Scaffold2	357858	AA	GG	1946912535

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_109759_368803	NW_004515637.1	Scaffold2	368803	CC	TT	1946912540
SNP_P4_109760_379030	NW_004515637.1	Scaffold2	379030	CC	GG	1946912542
SNP_P4_109762_402757	NW_004515637.1	Scaffold2	402757	AA	GG	1946912544
SNP_P4_109763_402844	NW_004515637.1	Scaffold2	402844	TT	CC	1946912546
SNP_P4_109764_402845	NW_004515637.1	Scaffold2	402845	AA	GG	1946912548
SNP_P4_109765_407740	NW_004515637.1	Scaffold2	407740	TT	GG	1946912550
SNP_P4_109766_407803	NW_004515637.1	Scaffold2	407803	AA	CC	1946912552
SNP_P4_109767_408001	NW_004515637.1	Scaffold2	408001	TT	CC	1946912554
SNP_P4_109770_408119	NW_004515637.1	Scaffold2	408119	TT	CC	1946912556
SNP_P4_109771_408122	NW_004515637.1	Scaffold2	408122	AA	CC	1946912558
SNP_P4_109772_408132	NW_004515637.1	Scaffold2	408132	TT	GG	1946912560
SNP_P4_109773_408165	NW_004515637.1	Scaffold2	408165	AA	TT	1946912562
SNP_P4_109774_408207	NW_004515637.1	Scaffold2	408207	AA	TT	1946912564
SNP_P4_109775_408637	NW_004515637.1	Scaffold2	408637	GG	TT	1946912566
SNP_P4_109776_411073	NW_004515637.1	Scaffold2	411073	TT	CC	1946912568
SNP_P4_109777_411096	NW_004515637.1	Scaffold2	411096	TT	CC	1946912570
SNP_P4_109778_411742	NW_004515637.1	Scaffold2	411742	CC	TT	1946912572
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SNP_P4_109782_483438	NW_004515637.1	Scaffold2	483438	TT	AA	1946912580
SNP_P4_109783_500364	NW_004515637.1	Scaffold2	500364	GG	TT	1946912582
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SNP_P4_109788_505961	NW_004515637.1	Scaffold2	505961	TT	CC	1946912588
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SNP_P4_109790_527134	NW_004515637.1	Scaffold2	527134	GG	AA	1946912592
SNP_P4_109791_527886	NW_004515637.1	Scaffold2	527886	TT	GG	1946912594
SNP_P4_109792_527891	NW_004515637.1	Scaffold2	527891	GG	AA	1946912596
SNP_P4_109793_527922	NW_004515637.1	Scaffold2	527922	TT	GG	1946912598
SNP_P4_109794_528163	NW_004515637.1	Scaffold2	528163	GG	AA	1946912600
SNP_P4_109795_540748	NW_004515637.1	Scaffold2	540748	TT	CC	1946912602
SNP_P4_109796_1469	NW_004515638.1	Scaffold5	1469	TT	CC	1946912604
SNP_P4_109797_1496	NW_004515638.1	Scaffold5	1496	AA	CC	1946912606
SNP_P4_109799_1542	NW_004515638.1	Scaffold5	1542	AA	GG	1946912608
SNP_P4_109800_1565	NW_004515638.1	Scaffold5	1565	AA	GG	1946912610
SNP_P4_109802_5498	NW_004515638.1	Scaffold5	5498	TT	CC	1946912612
SNP_P4_109803_5855	NW_004515638.1	Scaffold5	5855	AA	GG	1946912614
SNP_P4_109804_5861	NW_004515638.1	Scaffold5	5861	TT	CC	1946912616
SNP_P4_109805_5948	NW_004515638.1	Scaffold5	5948	AA	GG	1946912618

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_109807_17311	NW_004515638.1	Scaffold5	17311	GG	AA	1946912622
SNP_P4_109809_17576	NW_004515638.1	Scaffold5	17576	CC	AA	1946912624
SNP_P4_109810_2043	NW_004515639.1	Scaffold7	2043	CC	AA	1946912626
SNP_P4_109811_2090	NW_004515639.1	Scaffold7	2090	TT	AA	1946912628
SNP_P4_109812_10868	NW_004515639.1	Scaffold7	10868	GG	TT	1946912630
SNP_P4_109813_13473	NW_004515639.1	Scaffold7	13473	AA	TT	1946912633
SNP_P4_109814_13474	NW_004515639.1	Scaffold7	13474	AA	CC	1946912635
SNP_P4_109815_13477	NW_004515639.1	Scaffold7	13477	TT	CC	1946912637
SNP_P4_109816_13487	NW_004515639.1	Scaffold7	13487	GG	CC	1946912639
SNP_P4_109817_40904	NW_004515639.1	Scaffold7	40904	TT	GG	1946912641
SNP_P4_109818_50232	NW_004515639.1	Scaffold7	50232	TT	CC	1946912643
SNP_P4_109819_50486	NW_004515639.1	Scaffold7	50486	GG	AA	1946912645
SNP_P4_109820_50492	NW_004515639.1	Scaffold7	50492	CC	TT	1946912647
SNP_P4_109821_50519	NW_004515639.1	Scaffold7	50519	CC	GG	1946912649
SNP_P4_109822_79449	NW_004515639.1	Scaffold7	79449	TT	CC	1946912651
SNP_P4_109823_79481	NW_004515639.1	Scaffold7	79481	AA	CC	1946912653
SNP_P4_109824_79497	NW_004515639.1	Scaffold7	79497	TT	AA	1946912655
SNP_P4_109825_94503	NW_004515639.1	Scaffold7	94503	AA	GG	1946912657
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SNP_P4_109827_94654	NW_004515639.1	Scaffold7	94654	GG	TT	1946912661
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SNP_P4_109837_170228	NW_004515639.1	Scaffold7	170228	TT	CC	1946912681
SNP_P4_109838_170269	NW_004515639.1	Scaffold7	170269	AA	GG	1946912683
SNP_P4_109839_170303	NW_004515639.1	Scaffold7	170303	AA	TT	1946912685
SNP_P4_109840_170354	NW_004515639.1	Scaffold7	170354	AA	GG	1946912687
SNP_P4_109841_170361	NW_004515639.1	Scaffold7	170361	AA	GG	1946912689
SNP_P4_109842_170369	NW_004515639.1	Scaffold7	170369	AA	GG	1946912691
SNP_P4_109843_170380	NW_004515639.1	Scaffold7	170380	AA	GG	1946912693
SNP_P4_109844_170416	NW_004515639.1	Scaffold7	170416	AA	GG	1946912695
SNP_P4_109845_170426	NW_004515639.1	Scaffold7	170426	TT	AA	1946912697
SNP_P4_109846_170445	NW_004515639.1	Scaffold7	170445	TT	CC	1946912699
SNP_P4_109847_170456	NW_004515639.1	Scaffold7	170456	AA	GG	1946912701
SNP_P4_109848_170476	NW_004515639.1	Scaffold7	170476	CC	TT	1946912703

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_109851_210680	NW_004515639.1	Scaffold7	210680	TT	GG	1946912709
SNP_P4_109852_210681	NW_004515639.1	Scaffold7	210681	TT	AA	1946912711
SNP_P4_109853_210748	NW_004515639.1	Scaffold7	210748	AA	TT	1946912713
SNP_P4_109854_210751	NW_004515639.1	Scaffold7	210751	TT	CC	1946912715
SNP_P4_109855_210769	NW_004515639.1	Scaffold7	210769	AA	CC	1946912717
SNP_P4_109856_210782	NW_004515639.1	Scaffold7	210782	TT	CC	1946912719
SNP_P4_109857_210790	NW_004515639.1	Scaffold7	210790	TT	CC	1946912721
SNP_P4_109858_210800	NW_004515639.1	Scaffold7	210800	GG	AA	1946912723
SNP_P4_109859_210802	NW_004515639.1	Scaffold7	210802	AA	TT	1946912725
SNP_P4_109860_210808	NW_004515639.1	Scaffold7	210808	AA	GG	1946912727
SNP_P4_109861_210814	NW_004515639.1	Scaffold7	210814	CC	TT	1946912729
SNP_P4_109862_210820	NW_004515639.1	Scaffold7	210820	GG	AA	1946912731
SNP_P4_109863_215031	NW_004515639.1	Scaffold7	215031	TT	CC	1946912733
SNP_P4_109864_215092	NW_004515639.1	Scaffold7	215092	GG	TT	1946912735
SNP_P4_109866_215374	NW_004515639.1	Scaffold7	215374	GG	AA	1946912737
SNP_P4_109867_247071	NW_004515639.1	Scaffold7	247071	TT	CC	1946912739
SNP_P4_109868_247202	NW_004515639.1	Scaffold7	247202	GG	TT	1946912741
SNP_P4_109869_247205	NW_004515639.1	Scaffold7	247205	TT	CC	1946912743
SNP_P4_109870_247275	NW_004515639.1	Scaffold7	247275	TT	AA	1946912745
SNP_P4_109871_247327	NW_004515639.1	Scaffold7	247327	GG	AA	1946912747
SNP_P4_109872_247347	NW_004515639.1	Scaffold7	247347	CC	TT	1946912750
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SNP_P4_109874_247413	NW_004515639.1	Scaffold7	247413	TT	AA	1946912754
SNP_P4_109875_254692	NW_004515639.1	Scaffold7	254692	TT	AA	1946912756
SNP_P4_109876_254693	NW_004515639.1	Scaffold7	254693	AA	GG	1946912758
SNP_P4_109877_254724	NW_004515639.1	Scaffold7	254724	TT	CC	1946912760
SNP_P4_109878_254851	NW_004515639.1	Scaffold7	254851	AA	GG	1946912762
SNP_P4_109879_254883	NW_004515639.1	Scaffold7	254883	AA	GG	1946912764
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SNP_P4_109885_255206	NW_004515639.1	Scaffold7	255206	TT	CC	1946912776
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SNP_P4_109887_255238	NW_004515639.1	Scaffold7	255238	CC	TT	1946912780
SNP_P4_109888_255244	NW_004515639.1	Scaffold7	255244	GG	AA	1946912783
SNP_P4_109889_255261	NW_004515639.1	Scaffold7	255261	TT	CC	1946912785
SNP_P4_109890_262959	NW_004515639.1	Scaffold7	262959	CC	TT	1946912787
SNP_P4_109891_270525	NW_004515639.1	Scaffold7	270525	AA	TT	1946912789

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_109894_273473	NW_004515639.1	Scaffold7	273473	TT	CC	1946912795
SNP_P4_109895_273489	NW_004515639.1	Scaffold7	273489	TT	CC	1946912797
SNP_P4_109896_273811	NW_004515639.1	Scaffold7	273811	AA	GG	1946912799
SNP_P4_109897_274011	NW_004515639.1	Scaffold7	274011	TT	GG	1946912801
SNP_P4_109898_274038	NW_004515639.1	Scaffold7	274038	GG	AA	1946912803
SNP_P4_109899_274049	NW_004515639.1	Scaffold7	274049	TT	GG	1946912805
SNP_P4_109900_274111	NW_004515639.1	Scaffold7	274111	GG	AA	1946912807
SNP_P4_109901_274147	NW_004515639.1	Scaffold7	274147	AA	CC	1946912809
SNP_P4_109902_274184	NW_004515639.1	Scaffold7	274184	GG	AA	1946912811
SNP_P4_109903_1570	NW_004515640.1	Scaffold9	1570	TT	CC	1946912813
SNP_P4_109904_2005	NW_004515640.1	Scaffold9	2005	CC	TT	1946912815
SNP_P4_109905_8544	NW_004515640.1	Scaffold9	8544	CC	TT	1946912817
SNP_P4_109906_8572	NW_004515640.1	Scaffold9	8572	AA	CC	1946912819
SNP_P4_109907_9227	NW_004515640.1	Scaffold9	9227	GG	CC	1946912821
SNP_P4_109908_12429	NW_004515640.1	Scaffold9	12429	CC	AA	1946912823
SNP_P4_109909_12556	NW_004515640.1	Scaffold9	12556	AA	GG	1946912825
SNP_P4_109910_12609	NW_004515640.1	Scaffold9	12609	CC	TT	1946912827
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SNP_P4_109914_12890	NW_004515640.1	Scaffold9	12890	AA	GG	1946912835
SNP_P4_109915_15374	NW_004515640.1	Scaffold9	15374	GG	AA	1946912837
SNP_P4_109916_28196	NW_004515640.1	Scaffold9	28196	AA	GG	1946912839
SNP_P4_109917_31010	NW_004515640.1	Scaffold9	31010	GG	AA	1946912841
SNP_P4_109918_34558	NW_004515640.1	Scaffold9	34558	GG	TT	1946912843
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SNP_P4_109924_35106	NW_004515640.1	Scaffold9	35106	TT	AA	1946912854
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SNP_P4_109927_76101	NW_004515640.1	Scaffold9	76101	AA	GG	1946912861
SNP_P4_109928_76109	NW_004515640.1	Scaffold9	76109	GG	AA	1946912863
SNP_P4_109929_76110	NW_004515640.1	Scaffold9	76110	GG	AA	1946912865
SNP_P4_109930_76208	NW_004515640.1	Scaffold9	76208	CC	GG	1946912867
SNP_P4_109931_76398	NW_004515640.1	Scaffold9	76398	AA	CC	1946912870
SNP_P4_109932_76412	NW_004515640.1	Scaffold9	76412	AA	GG	1946912872
SNP_P4_109933_76908	NW_004515640.1	Scaffold9	76908	GG	AA	1946912874
SNP_P4_109934_91948	NW_004515640.1	Scaffold9	91948	TT	AA	1946912876

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_109937_97372	NW_004515640.1	Scaffold9	97372	GG	AA	1946912880
SNP_P4_109938_97386	NW_004515640.1	Scaffold9	97386	GG	AA	1946912881
SNP_P4_109939_97603	NW_004515640.1	Scaffold9	97603	GG	AA	1946912883
SNP_P4_109940_97606	NW_004515640.1	Scaffold9	97606	TT	CC	1946912885
SNP_P4_109941_97696	NW_004515640.1	Scaffold9	97696	GG	AA	1946912887
SNP_P4_109942_8775	NW_004515641.1	Scaffold10	8775	TT	CC	1946912889
SNP_P4_109945_19823	NW_004515641.1	Scaffold10	19823	AA	CC	1946912891
SNP_P4_109946_19910	NW_004515641.1	Scaffold10	19910	CC	TT	1946912894
SNP_P4_109947_20314	NW_004515641.1	Scaffold10	20314	CC	TT	1946912896
SNP_P4_109948_23377	NW_004515641.1	Scaffold10	23377	CC	AA	1946912898
SNP_P4_109949_23738	NW_004515641.1	Scaffold10	23738	GG	AA	1946912900
SNP_P4_109950_23757	NW_004515641.1	Scaffold10	23757	TT	CC	1946912902
SNP_P4_109951_34142	NW_004515641.1	Scaffold10	34142	TT	AA	1946912904
SNP_P4_109952_34550	NW_004515641.1	Scaffold10	34550	TT	CC	1946912906
SNP_P4_109953_34624	NW_004515641.1	Scaffold10	34624	CC	TT	1946912908
SNP_P4_109954_34629	NW_004515641.1	Scaffold10	34629	CC	TT	1946912910
SNP_P4_109955_54598	NW_004515641.1	Scaffold10	54598	AA	GG	1946912912
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SNP_P4_109958_54607	NW_004515641.1	Scaffold10	54607	CC	GG	1946912918
SNP_P4_109959_54618	NW_004515641.1	Scaffold10	54618	TT	CC	1946912920
SNP_P4_109960_55458	NW_004515641.1	Scaffold10	55458	TT	CC	1946912922
SNP_P4_109962_70781	NW_004515641.1	Scaffold10	70781	AA	GG	1946912924
SNP_P4_109963_87215	NW_004515641.1	Scaffold10	87215	CC	AA	1946912926
SNP_P4_109964_87401	NW_004515641.1	Scaffold10	87401	TT	CC	1946912928
SNP_P4_109965_87411	NW_004515641.1	Scaffold10	87411	TT	CC	1946912930
SNP_P4_109966_87424	NW_004515641.1	Scaffold10	87424	AA	GG	1946912932
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SNP_P4_109969_87818	NW_004515641.1	Scaffold10	87818	AA	GG	1946912938
SNP_P4_109970_89547	NW_004515641.1	Scaffold10	89547	GG	AA	1946912940
SNP_P4_109971_89570	NW_004515641.1	Scaffold10	89570	TT	CC	1946912942
SNP_P4_109972_89898	NW_004515641.1	Scaffold10	89898	AA	TT	1946912944
SNP_P4_109973_89910	NW_004515641.1	Scaffold10	89910	TT	GG	1946912946
SNP_P4_109974_89913	NW_004515641.1	Scaffold10	89913	GG	AA	1946912948
SNP_P4_109975_89932	NW_004515641.1	Scaffold10	89932	TT	AA	1946912950
SNP_P4_109976_89950	NW_004515641.1	Scaffold10	89950	CC	AA	1946912953
SNP_P4_109977_91259	NW_004515641.1	Scaffold10	91259	GG	AA	1946912955
SNP_P4_109978_91277	NW_004515641.1	Scaffold10	91277	AA	GG	1946912957
SNP_P4_109979_91464	NW_004515641.1	Scaffold10	91464	AA	CC	1946912959

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_109982_91619	NW_004515641.1	Scaffold10	91619	GG	TT	1946912965
SNP_P4_109983_91669	NW_004515641.1	Scaffold10	91669	TT	AA	1946912967
SNP_P4_109984_91720	NW_004515641.1	Scaffold10	91720	AA	CC	1946912969
SNP_P4_109985_91809	NW_004515641.1	Scaffold10	91809	AA	GG	1946912971
SNP_P4_109986_91879	NW_004515641.1	Scaffold10	91879	TT	AA	1946912973
SNP_P4_109987_91886	NW_004515641.1	Scaffold10	91886	CC	TT	1946912975
SNP_P4_109988_91889	NW_004515641.1	Scaffold10	91889	GG	TT	1946912977
SNP_P4_109989_91909	NW_004515641.1	Scaffold10	91909	GG	CC	1946912979
SNP_P4_109990_91913	NW_004515641.1	Scaffold10	91913	TT	CC	1946912981
SNP_P4_109991_91923	NW_004515641.1	Scaffold10	91923	TT	CC	1946912984
SNP_P4_109992_91974	NW_004515641.1	Scaffold10	91974	CC	AA	1946912986
SNP_P4_109993_92031	NW_004515641.1	Scaffold10	92031	GG	AA	1946912988
SNP_P4_109994_92049	NW_004515641.1	Scaffold10	92049	AA	CC	1946912990
SNP_P4_109995_92064	NW_004515641.1	Scaffold10	92064	CC	AA	1946912992
SNP_P4_109996_92087	NW_004515641.1	Scaffold10	92087	AA	CC	1946912995
SNP_P4_109997_92092	NW_004515641.1	Scaffold10	92092	CC	TT	1946912997
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SNP_P4_110000_117691	NW_004515641.1	Scaffold10	117691	GG	AA	1946913003
SNP_P4_110001_126009	NW_004515641.1	Scaffold10	126009	AA	TT	1946913005
SNP_P4_110002_4279	NW_004515642.1	Scaffold11	4279	AA	TT	1946913007
SNP_P4_110003_6908	NW_004515642.1	Scaffold11	6908	CC	AA	1946913010
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SNP_P4_110007_7625	NW_004515642.1	Scaffold11	7625	CC	AA	1946913018
SNP_P4_110008_17174	NW_004515642.1	Scaffold11	17174	AA	TT	1946913020
SNP_P4_110009_30005	NW_004515642.1	Scaffold11	30005	AA	GG	1946913023
SNP_P4_110010_30095	NW_004515642.1	Scaffold11	30095	AA	TT	1946913025
SNP_P4_110011_8590	NW_004515643.1	Scaffold12	8590	GG	AA	1946913027
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SNP_P4_110016_16673	NW_004515643.1	Scaffold12	16673	GG	AA	1946913035
SNP_P4_110019_58049	NW_004515643.1	Scaffold12	58049	AA	GG	1946913037
SNP_P4_110020_99377	NW_004515643.1	Scaffold12	99377	AA	GG	1946913039
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SNP_P4_110023_101845	NW_004515643.1	Scaffold12	101845	GG	CC	1946913043
SNP_P4_110024_110398	NW_004515643.1	Scaffold12	110398	AA	CC	1946913045
SNP_P4_110025_110410	NW_004515643.1	Scaffold12	110410	CC	TT	1946913047

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_110028_110511	NW_004515643.1	Scaffold12	110511	GG	AA	1946913053
SNP_P4_110029_110515	NW_004515643.1	Scaffold12	110515	AA	CC	1946913055
SNP_P4_110030_110556	NW_004515643.1	Scaffold12	110556	GG	TT	1946913057
SNP_P4_110031_110572	NW_004515643.1	Scaffold12	110572	GG	TT	1946913059
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SNP_P4_110035_161007	NW_004515643.1	Scaffold12	161007	TT	GG	1946913066
SNP_P4_110036_177674	NW_004515643.1	Scaffold12	177674	CC	TT	1946913068
SNP_P4_110038_190055	NW_004515643.1	Scaffold12	190055	CC	TT	1946913070
SNP_P4_110039_198294	NW_004515643.1	Scaffold12	198294	GG	AA	1946913072
SNP_P4_110040_198299	NW_004515643.1	Scaffold12	198299	AA	GG	1946913074
SNP_P4_110041_198311	NW_004515643.1	Scaffold12	198311	TT	GG	1946913076
SNP_P4_110042_198432	NW_004515643.1	Scaffold12	198432	TT	CC	1946913078
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SNP_P4_110050_218328	NW_004515643.1	Scaffold12	218328	TT	AA	1946913094
SNP_P4_110051_218405	NW_004515643.1	Scaffold12	218405	TT	CC	1946913096
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SNP_P4_110056_245153	NW_004515643.1	Scaffold12	245153	CC	GG	1946913106
SNP_P4_110057_245462	NW_004515643.1	Scaffold12	245462	TT	GG	1946913108
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SNP_P4_110059_275936	NW_004515643.1	Scaffold12	275936	AA	TT	1946913112
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SNP_P4_110062_275955	NW_004515643.1	Scaffold12	275955	GG	TT	1946913119
SNP_P4_110064_292813	NW_004515643.1	Scaffold12	292813	AA	GG	1946913121
SNP_P4_110065_293027	NW_004515643.1	Scaffold12	293027	CC	TT	1946913123
SNP_P4_110066_296029	NW_004515643.1	Scaffold12	296029	GG	AA	1946913125
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SNP_P4_110068_296064	NW_004515643.1	Scaffold12	296064	AA	GG	1946913129
SNP_P4_110069_296078	NW_004515643.1	Scaffold12	296078	GG	TT	1946913131
SNP_P4_110070_296079	NW_004515643.1	Scaffold12	296079	CC	TT	1946913133

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_110073_296247	NW_004515643.1	Scaffold12	296247	AA	GG	1946913139
SNP_P4_110074_296357	NW_004515643.1	Scaffold12	296357	AA	GG	1946913141
SNP_P4_110075_296444	NW_004515643.1	Scaffold12	296444	GG	AA	1946913143
SNP_P4_110076_296449	NW_004515643.1	Scaffold12	296449	AA	GG	1946913145
SNP_P4_110077_296480	NW_004515643.1	Scaffold12	296480	TT	AA	1946913147
SNP_P4_110078_296500	NW_004515643.1	Scaffold12	296500	TT	GG	1946913149
SNP_P4_110079_296528	NW_004515643.1	Scaffold12	296528	TT	CC	1946913151
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SNP_P4_110081_296582	NW_004515643.1	Scaffold12	296582	TT	CC	1946913155
SNP_P4_110083_304973	NW_004515643.1	Scaffold12	304973	TT	CC	1946913157
SNP_P4_110084_305476	NW_004515643.1	Scaffold12	305476	AA	GG	1946913159
SNP_P4_110085_305478	NW_004515643.1	Scaffold12	305478	AA	GG	1946913161
SNP_P4_110086_307138	NW_004515643.1	Scaffold12	307138	GG	AA	1946913163
SNP_P4_110087_344147	NW_004515643.1	Scaffold12	344147	CC	TT	1946913165
SNP_P4_110088_3143	NW_004515644.1	Scaffold13	3143	CC	TT	1946913168
SNP_P4_110089_3419	NW_004515644.1	Scaffold13	3419	GG	CC	1946913170
SNP_P4_110090_3481	NW_004515644.1	Scaffold13	3481	TT	AA	1946913172
SNP_P4_110091_3505	NW_004515644.1	Scaffold13	3505	TT	AA	1946913174
SNP_P4_110092_5608	NW_004515644.1	Scaffold13	5608	TT	GG	1946913176
SNP_P4_110093_5637	NW_004515644.1	Scaffold13	5637	CC	GG	1946913178
SNP_P4_110094_9232	NW_004515644.1	Scaffold13	9232	TT	GG	1946913180
SNP_P4_110095_9312	NW_004515644.1	Scaffold13	9312	GG	AA	1946913182
SNP_P4_110096_16820	NW_004515644.1	Scaffold13	16820	TT	AA	1946913184
SNP_P4_110097_16886	NW_004515644.1	Scaffold13	16886	TT	AA	1946913186
SNP_P4_110098_16890	NW_004515644.1	Scaffold13	16890	TT	CC	1946913188
SNP_P4_110099_16956	NW_004515644.1	Scaffold13	16956	GG	CC	1946913190
SNP_P4_110100_16980	NW_004515644.1	Scaffold13	16980	TT	CC	1946913192
SNP_P4_110101_16992	NW_004515644.1	Scaffold13	16992	TT	CC	1946913194
SNP_P4_110102_17080	NW_004515644.1	Scaffold13	17080	CC	AA	1946913196
SNP_P4_110103_17081	NW_004515644.1	Scaffold13	17081	TT	CC	1946913198
SNP_P4_110104_17127	NW_004515644.1	Scaffold13	17127	AA	TT	1946913200
SNP_P4_110105_17369	NW_004515644.1	Scaffold13	17369	TT	AA	1946913202
SNP_P4_110106_22753	NW_004515644.1	Scaffold13	22753	AA	TT	1946913204
SNP_P4_110107_22890	NW_004515644.1	Scaffold13	22890	TT	CC	1946913206
SNP_P4_110108_22968	NW_004515644.1	Scaffold13	22968	TT	GG	1946913208
SNP_P4_110109_26321	NW_004515644.1	Scaffold13	26321	TT	GG	1946913210
SNP_P4_110110_26341	NW_004515644.1	Scaffold13	26341	AA	GG	1946913212
SNP_P4_110111_26352	NW_004515644.1	Scaffold13	26352	TT	AA	1946913214
SNP_P4_110112_26398	NW_004515644.1	Scaffold13	26398	CC	GG	1946913216
SNP_P4_110113_26400	NW_004515644.1	Scaffold13	26400	CC	GG	1946913218

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_110114_26629	NW_004515644.1	Scaffold13	26629	TT	AA	1946913220
SNP_P4_110115_26649	NW_004515644.1	Scaffold13	26649	TT	CC	1946913222
SNP_P4_110116_26665	NW_004515644.1	Scaffold13	26665	CC	TT	1946913224
SNP_P4_110117_26666	NW_004515644.1	Scaffold13	26666	CC	AA	1946913226
SNP_P4_110118_26690	NW_004515644.1	Scaffold13	26690	AA	GG	1946913228
SNP_P4_110119_26794	NW_004515644.1	Scaffold13	26794	CC	GG	1946913230
SNP_P4_110120_32946	NW_004515644.1	Scaffold13	32946	CC	TT	1946913232
SNP_P4_110121_32987	NW_004515644.1	Scaffold13	32987	AA	TT	1946913234
SNP_P4_110122_33032	NW_004515644.1	Scaffold13	33032	AA	GG	1946913236
SNP_P4_110123_33049	NW_004515644.1	Scaffold13	33049	CC	TT	1946913238
SNP_P4_110124_33061	NW_004515644.1	Scaffold13	33061	GG	AA	1946913240
SNP_P4_110125_33074	NW_004515644.1	Scaffold13	33074	CC	GG	1946913242
SNP_P4_110126_33098	NW_004515644.1	Scaffold13	33098	AA	TT	1946913244
SNP_P4_110127_33099	NW_004515644.1	Scaffold13	33099	TT	CC	1946913246
SNP_P4_110128_33103	NW_004515644.1	Scaffold13	33103	TT	CC	1946913248
SNP_P4_110129_33140	NW_004515644.1	Scaffold13	33140	AA	GG	1946913250
SNP_P4_110130_33150	NW_004515644.1	Scaffold13	33150	AA	GG	1946913252
SNP_P4_110131_33178	NW_004515644.1	Scaffold13	33178	AA	GG	1946913254
SNP_P4_110132_33182	NW_004515644.1	Scaffold13	33182	GG	AA	1946913256
SNP_P4_110133_33375	NW_004515644.1	Scaffold13	33375	CC	TT	1946913258
SNP_P4_110134_33380	NW_004515644.1	Scaffold13	33380	CC	AA	1946913260
SNP_P4_110135_33427	NW_004515644.1	Scaffold13	33427	CC	TT	1946913262
SNP_P4_110136_33432	NW_004515644.1	Scaffold13	33432	AA	CC	1946913264
SNP_P4_110137_33470	NW_004515644.1	Scaffold13	33470	CC	AA	1946913266
SNP_P4_110138_33806	NW_004515644.1	Scaffold13	33806	CC	AA	1946913268
SNP_P4_110139_40156	NW_004515644.1	Scaffold13	40156	AA	CC	1946913271
SNP_P4_110140_44106	NW_004515644.1	Scaffold13	44106	AA	GG	1946913273
SNP_P4_110141_51669	NW_004515644.1	Scaffold13	51669	TT	AA	1946913275
SNP_P4_110142_58616	NW_004515644.1	Scaffold13	58616	TT	AA	1946913277
SNP_P4_110143_63588	NW_004515644.1	Scaffold13	63588	CC	TT	1946913279
SNP_P4_110144_65550	NW_004515644.1	Scaffold13	65550	AA	GG	1946913281
SNP_P4_110145_70732	NW_004515644.1	Scaffold13	70732	AA	GG	1946913283
SNP_P4_110146_70956	NW_004515644.1	Scaffold13	70956	CC	AA	1946913285
SNP_P4_110147_3502	NW_004515645.1	Scaffold15	3502	GG	AA	1946913287
SNP_P4_110148_8745	NW_004515645.1	Scaffold15	8745	TT	CC	1946913289
SNP_P4_110149_13473	NW_004515645.1	Scaffold15	13473	AA	TT	1946913291
SNP_P4_110150_13497	NW_004515645.1	Scaffold15	13497	CC	TT	1946913293
SNP_P4_110151_13597	NW_004515645.1	Scaffold15	13597	AA	CC	1946913295
SNP_P4_110152_13810	NW_004515645.1	Scaffold15	13810	TT	GG	1946913297
SNP_P4_110153_13816	NW_004515645.1	Scaffold15	13816	TT	CC	1946913299
SNP_P4_110154_13828	NW_004515645.1	Scaffold15	13828	GG	AA	1946913301
SNP_P4_110156_13900	NW_004515645.1	Scaffold15	13900	GG	AA	1946913303

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_110157_13901	NW_004515645.1	Scaffold15	13901	CC	GG	1946913305
SNP_P4_110158_13926	NW_004515645.1	Scaffold15	13926	GG	CC	1946913307
SNP_P4_110159_19612	NW_004515645.1	Scaffold15	19612	GG	AA	1946913309
SNP_P4_110160_20077	NW_004515645.1	Scaffold15	20077	TT	CC	1946913311
SNP_P4_110161_20094	NW_004515645.1	Scaffold15	20094	AA	TT	1946913313
SNP_P4_110162_20243	NW_004515645.1	Scaffold15	20243	CC	AA	1946913315
SNP_P4_110163_20276	NW_004515645.1	Scaffold15	20276	GG	TT	1946913317
SNP_P4_110164_20290	NW_004515645.1	Scaffold15	20290	TT	GG	1946913319
SNP_P4_110165_20336	NW_004515645.1	Scaffold15	20336	CC	TT	1946913321
SNP_P4_110166_27464	NW_004515645.1	Scaffold15	27464	GG	TT	1946913323
SNP_P4_110167_27721	NW_004515645.1	Scaffold15	27721	AA	GG	1946913326
SNP_P4_110168_28931	NW_004515645.1	Scaffold15	28931	AA	CC	1946913328
SNP_P4_110169_28944	NW_004515645.1	Scaffold15	28944	AA	TT	1946913330
SNP_P4_110170_28991	NW_004515645.1	Scaffold15	28991	GG	AA	1946913332
SNP_P4_110171_32233	NW_004515645.1	Scaffold15	32233	TT	CC	1946913334
SNP_P4_110172_37986	NW_004515645.1	Scaffold15	37986	TT	AA	1946913336
SNP_P4_110173_38055	NW_004515645.1	Scaffold15	38055	GG	AA	1946913338
SNP_P4_110174_38284	NW_004515645.1	Scaffold15	38284	GG	AA	1946913340
SNP_P4_110176_46923	NW_004515645.1	Scaffold15	46923	GG	TT	1946913342
SNP_P4_110177_49598	NW_004515645.1	Scaffold15	49598	TT	CC	1946913344
SNP_P4_110178_49612	NW_004515645.1	Scaffold15	49612	CC	TT	1946913346
SNP_P4_110179_49634	NW_004515645.1	Scaffold15	49634	AA	TT	1946913348
SNP_P4_110180_49655	NW_004515645.1	Scaffold15	49655	TT	CC	1946913350
SNP_P4_110181_63175	NW_004515645.1	Scaffold15	63175	AA	CC	1946913352
SNP_P4_110182_63193	NW_004515645.1	Scaffold15	63193	GG	CC	1946913354
SNP_P4_110183_63258	NW_004515645.1	Scaffold15	63258	GG	AA	1946913356
SNP_P4_110184_63271	NW_004515645.1	Scaffold15	63271	TT	CC	1946913358
SNP_P4_110185_67294	NW_004515645.1	Scaffold15	67294	AA	TT	1946913360
SNP_P4_110186_69890	NW_004515645.1	Scaffold15	69890	CC	GG	1946913362
SNP_P4_110187_69923	NW_004515645.1	Scaffold15	69923	TT	CC	1946913364
SNP_P4_110188_70346	NW_004515645.1	Scaffold15	70346	CC	TT	1946913366
SNP_P4_110189_70348	NW_004515645.1	Scaffold15	70348	GG	AA	1946913368
SNP_P4_110190_70366	NW_004515645.1	Scaffold15	70366	GG	AA	1946913370
SNP_P4_110191_70477	NW_004515645.1	Scaffold15	70477	GG	AA	1946913372
SNP_P4_110192_70541	NW_004515645.1	Scaffold15	70541	AA	GG	1946913374
SNP_P4_110193_70549	NW_004515645.1	Scaffold15	70549	AA	GG	1946913376
SNP_P4_110194_70569	NW_004515645.1	Scaffold15	70569	GG	CC	1946913378
SNP_P4_110195_70618	NW_004515645.1	Scaffold15	70618	GG	AA	1946913380
SNP_P4_110196_70662	NW_004515645.1	Scaffold15	70662	GG	AA	1946913382
SNP_P4_110199_92776	NW_004515645.1	Scaffold15	92776	AA	TT	1946913384
SNP_P4_110200_98159	NW_004515645.1	Scaffold15	98159	AA	TT	1946913386
SNP_P4_110202_107588	NW_004515645.1	Scaffold15	107588	TT	AA	1946913388

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_110203_115221	NW_004515645.1	Scaffold15	115221	GG	AA	1946913390
SNP_P4_110204_115224	NW_004515645.1	Scaffold15	115224	GG	TT	1946913392
SNP_P4_110206_134325	NW_004515645.1	Scaffold15	134325	TT	CC	1946913394
SNP_P4_110207_134420	NW_004515645.1	Scaffold15	134420	CC	AA	1946913396
SNP_P4_110208_140899	NW_004515645.1	Scaffold15	140899	GG	CC	1946913398
SNP_P4_110209_141027	NW_004515645.1	Scaffold15	141027	AA	GG	1946913400
SNP_P4_110210_143706	NW_004515645.1	Scaffold15	143706	GG	AA	1946913402
SNP_P4_110213_144014	NW_004515645.1	Scaffold15	144014	TT	AA	1946913404
SNP_P4_110214_144076	NW_004515645.1	Scaffold15	144076	GG	AA	1946913406
SNP_P4_110216_158486	NW_004515645.1	Scaffold15	158486	AA	CC	1946913408
SNP_P4_110217_158760	NW_004515645.1	Scaffold15	158760	AA	GG	1946913410
SNP_P4_110218_158810	NW_004515645.1	Scaffold15	158810	AA	TT	1946913412
SNP_P4_110219_158819	NW_004515645.1	Scaffold15	158819	AA	GG	1946913414
SNP_P4_110220_158960	NW_004515645.1	Scaffold15	158960	AA	TT	1946913416
SNP_P4_110221_159714	NW_004515645.1	Scaffold15	159714	CC	GG	1946913418
SNP_P4_110222_165358	NW_004515645.1	Scaffold15	165358	GG	AA	1946913420
SNP_P4_110223_165381	NW_004515645.1	Scaffold15	165381	TT	AA	1946913422
SNP_P4_110224_165677	NW_004515645.1	Scaffold15	165677	AA	GG	1946913424
SNP_P4_110225_471	NW_004515646.1	Scaffold16	471	CC	AA	1946913426
SNP_P4_110226_827	NW_004515646.1	Scaffold16	827	TT	GG	1946913428
SNP_P4_110227_894	NW_004515646.1	Scaffold16	894	TT	CC	1946913430
SNP_P4_110228_896	NW_004515646.1	Scaffold16	896	GG	AA	1946913432
SNP_P4_110229_912	NW_004515646.1	Scaffold16	912	GG	AA	1946913434
SNP_P4_110230_924	NW_004515646.1	Scaffold16	924	AA	GG	1946913436
SNP_P4_110231_949	NW_004515646.1	Scaffold16	949	AA	GG	1946913438
SNP_P4_110232_992	NW_004515646.1	Scaffold16	992	AA	CC	1946913440
SNP_P4_110233_1009	NW_004515646.1	Scaffold16	1009	TT	GG	1946913442
SNP_P4_110234_1068	NW_004515646.1	Scaffold16	1068	TT	CC	1946913444
SNP_P4_110235_1088	NW_004515646.1	Scaffold16	1088	TT	AA	1946913446
SNP_P4_110236_1292	NW_004515646.1	Scaffold16	1292	GG	AA	1946913448
SNP_P4_110237_4600	NW_004515646.1	Scaffold16	4600	AA	CC	1946913450
SNP_P4_110238_4681	NW_004515646.1	Scaffold16	4681	AA	GG	1946913452
SNP_P4_110239_4687	NW_004515646.1	Scaffold16	4687	AA	CC	1946913454
SNP_P4_110240_15440	NW_004515646.1	Scaffold16	15440	TT	AA	1946913456
SNP_P4_110241_15454	NW_004515646.1	Scaffold16	15454	CC	TT	1946913458
SNP_P4_110242_5677	NW_004515647.1	Scaffold17	5677	TT	CC	1946913460
SNP_P4_110243_5720	NW_004515647.1	Scaffold17	5720	AA	GG	1946913462
SNP_P4_110244_31792	NW_004515647.1	Scaffold17	31792	GG	CC	1946913464
SNP_P4_110245_31801	NW_004515647.1	Scaffold17	31801	AA	TT	1946913466
SNP_P4_110246_40299	NW_004515647.1	Scaffold17	40299	CC	GG	1946913468
SNP_P4_110248_75649	NW_004515647.1	Scaffold17	75649	TT	CC	1946913470
SNP_P4_110249_95083	NW_004515647.1	Scaffold17	95083	TT	AA	1946913472

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_110250_95255	NW_004515647.1	Scaffold17	95255	AA	GG	1946913474
SNP_P4_110251_95280	NW_004515647.1	Scaffold17	95280	CC	AA	1946913477
SNP_P4_110252_95285	NW_004515647.1	Scaffold17	95285	TT	CC	1946913479
SNP_P4_110253_95508	NW_004515647.1	Scaffold17	95508	AA	CC	1946913481
SNP_P4_110254_95598	NW_004515647.1	Scaffold17	95598	CC	TT	1946913483
SNP_P4_110255_99768	NW_004515647.1	Scaffold17	99768	AA	TT	1946913485
SNP_P4_110256_99790	NW_004515647.1	Scaffold17	99790	CC	TT	1946913487
SNP_P4_110257_99811	NW_004515647.1	Scaffold17	99811	GG	AA	1946913489
SNP_P4_110258_99826	NW_004515647.1	Scaffold17	99826	AA	TT	1946913491
SNP_P4_110259_99833	NW_004515647.1	Scaffold17	99833	TT	CC	1946913493
SNP_P4_110261_99964	NW_004515647.1	Scaffold17	99964	GG	AA	1946913495
SNP_P4_110262_99997	NW_004515647.1	Scaffold17	99997	AA	TT	1946913497
SNP_P4_110263_101846	NW_004515647.1	Scaffold17	101846	TT	CC	1946913499
SNP_P4_110264_103440	NW_004515647.1	Scaffold17	103440	GG	AA	1946913501
SNP_P4_110265_103501	NW_004515647.1	Scaffold17	103501	AA	GG	1946913503
SNP_P4_110266_125114	NW_004515647.1	Scaffold17	125114	CC	GG	1946913505
SNP_P4_110267_125545	NW_004515647.1	Scaffold17	125545	CC	TT	1946913507
SNP_P4_110268_125547	NW_004515647.1	Scaffold17	125547	GG	TT	1946913509
SNP_P4_110269_125584	NW_004515647.1	Scaffold17	125584	TT	CC	1946913511
SNP_P4_110270_125586	NW_004515647.1	Scaffold17	125586	GG	AA	1946913513
SNP_P4_110271_125712	NW_004515647.1	Scaffold17	125712	TT	CC	1946913515
SNP_P4_110272_128083	NW_004515647.1	Scaffold17	128083	TT	GG	1946913517
SNP_P4_110273_128304	NW_004515647.1	Scaffold17	128304	TT	CC	1946913520
SNP_P4_110274_128662	NW_004515647.1	Scaffold17	128662	GG	AA	1946913522
SNP_P4_110275_128663	NW_004515647.1	Scaffold17	128663	CC	TT	1946913524
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SNP_P4_110277_128747	NW_004515647.1	Scaffold17	128747	CC	TT	1946913528
SNP_P4_110278_134914	NW_004515647.1	Scaffold17	134914	CC	TT	1946913530
SNP_P4_110279_135649	NW_004515647.1	Scaffold17	135649	GG	TT	1946913532
SNP_P4_110280_135696	NW_004515647.1	Scaffold17	135696	CC	GG	1946913534
SNP_P4_110281_135703	NW_004515647.1	Scaffold17	135703	GG	AA	1946913536
SNP_P4_110282_139158	NW_004515647.1	Scaffold17	139158	CC	AA	1946913538
SNP_P4_110283_142646	NW_004515647.1	Scaffold17	142646	TT	CC	1946913540
SNP_P4_110284_142801	NW_004515647.1	Scaffold17	142801	GG	AA	1946913542
SNP_P4_110285_143018	NW_004515647.1	Scaffold17	143018	CC	AA	1946913544
SNP_P4_110286_143029	NW_004515647.1	Scaffold17	143029	TT	CC	1946913546
SNP_P4_110287_143168	NW_004515647.1	Scaffold17	143168	CC	AA	1946913548
SNP_P4_110288_145721	NW_004515647.1	Scaffold17	145721	TT	GG	1946913550
SNP_P4_110289_145751	NW_004515647.1	Scaffold17	145751	TT	CC	1946913552
SNP_P4_110290_145778	NW_004515647.1	Scaffold17	145778	AA	GG	1946913554
SNP_P4_110291_146115	NW_004515647.1	Scaffold17	146115	AA	GG	1946913556
SNP_P4_110292_146128	NW_004515647.1	Scaffold17	146128	AA	GG	1946913558

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_110293_146140	NW_004515647.1	Scaffold17	146140	GG	TT	1946913560
SNP_P4_110294_146142	NW_004515647.1	Scaffold17	146142	AA	GG	1946913562
SNP_P4_110295_153125	NW_004515647.1	Scaffold17	153125	TT	CC	1946913564
SNP_P4_110296_153190	NW_004515647.1	Scaffold17	153190	CC	TT	1946913566
SNP_P4_110297_157700	NW_004515647.1	Scaffold17	157700	TT	CC	1946913568
SNP_P4_110298_157730	NW_004515647.1	Scaffold17	157730	AA	GG	1946913570
SNP_P4_110299_157752	NW_004515647.1	Scaffold17	157752	GG	AA	1946913572
SNP_P4_110300_158016	NW_004515647.1	Scaffold17	158016	AA	CC	1946913574
SNP_P4_110301_170385	NW_004515647.1	Scaffold17	170385	AA	GG	1946913576
SNP_P4_110302_170716	NW_004515647.1	Scaffold17	170716	CC	TT	1946913577
SNP_P4_110303_170718	NW_004515647.1	Scaffold17	170718	AA	CC	1946913578
SNP_P4_110304_170723	NW_004515647.1	Scaffold17	170723	TT	AA	1946913579
SNP_P4_110305_178063	NW_004515647.1	Scaffold17	178063	TT	AA	1946913580
SNP_P4_110306_204630	NW_004515647.1	Scaffold17	204630	TT	CC	1946913581
SNP_P4_110307_204631	NW_004515647.1	Scaffold17	204631	GG	AA	1946913582
SNP_P4_110308_232065	NW_004515647.1	Scaffold17	232065	AA	TT	1946913583
SNP_P4_110309_233541	NW_004515647.1	Scaffold17	233541	AA	TT	1946913584
SNP_P4_110310_233595	NW_004515647.1	Scaffold17	233595	CC	TT	1946913585
SNP_P4_110311_233659	NW_004515647.1	Scaffold17	233659	AA	GG	1946913586
SNP_P4_110312_233820	NW_004515647.1	Scaffold17	233820	TT	CC	1946913587
SNP_P4_110313_237969	NW_004515647.1	Scaffold17	237969	CC	TT	1946913588
SNP_P4_110314_238026	NW_004515647.1	Scaffold17	238026	CC	GG	1946913589
SNP_P4_110315_238441	NW_004515647.1	Scaffold17	238441	AA	GG	1946913590
SNP_P4_110316_239765	NW_004515647.1	Scaffold17	239765	TT	AA	1946913592
SNP_P4_110317_259107	NW_004515647.1	Scaffold17	259107	AA	CC	1946913594
SNP_P4_110318_259109	NW_004515647.1	Scaffold17	259109	TT	AA	1946913596
SNP_P4_110319_259114	NW_004515647.1	Scaffold17	259114	AA	GG	1946913598
SNP_P4_110320_259151	NW_004515647.1	Scaffold17	259151	GG	TT	1946913600
SNP_P4_110321_281977	NW_004515647.1	Scaffold17	281977	TT	GG	1946913602
SNP_P4_110322_282039	NW_004515647.1	Scaffold17	282039	CC	TT	1946913604
SNP_P4_110323_291830	NW_004515647.1	Scaffold17	291830	CC	TT	1946913606
SNP_P4_110324_291917	NW_004515647.1	Scaffold17	291917	AA	TT	1946913608
SNP_P4_110325_292010	NW_004515647.1	Scaffold17	292010	AA	TT	1946913610
SNP_P4_110326_292068	NW_004515647.1	Scaffold17	292068	CC	TT	1946913612
SNP_P4_110327_292224	NW_004515647.1	Scaffold17	292224	AA	GG	1946913614
SNP_P4_110328_292267	NW_004515647.1	Scaffold17	292267	GG	AA	1946913616
SNP_P4_110329_292273	NW_004515647.1	Scaffold17	292273	AA	CC	1946913618
SNP_P4_110330_292274	NW_004515647.1	Scaffold17	292274	AA	GG	1946913620
SNP_P4_110331_292593	NW_004515647.1	Scaffold17	292593	TT	GG	1946913622
SNP_P4_110332_292796	NW_004515647.1	Scaffold17	292796	GG	AA	1946913624
SNP_P4_110333_292869	NW_004515647.1	Scaffold17	292869	TT	CC	1946913626
SNP_P4_110334_293110	NW_004515647.1	Scaffold17	293110	AA	TT	1946913628

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_110335_293317	NW_004515647.1	Scaffold17	293317	AA	CC	1946913630
SNP_P4_110336_294785	NW_004515647.1	Scaffold17	294785	TT	AA	1946913632
SNP_P4_110337_294810	NW_004515647.1	Scaffold17	294810	AA	GG	1946913634
SNP_P4_110338_295120	NW_004515647.1	Scaffold17	295120	GG	AA	1946913636
SNP_P4_110339_296007	NW_004515647.1	Scaffold17	296007	GG	AA	1946913638
SNP_P4_110340_296737	NW_004515647.1	Scaffold17	296737	CC	AA	1946913640
SNP_P4_110341_296993	NW_004515647.1	Scaffold17	296993	TT	CC	1946913642
SNP_P4_110342_297240	NW_004515647.1	Scaffold17	297240	GG	AA	1946913644
SNP_P4_110343_297266	NW_004515647.1	Scaffold17	297266	TT	CC	1946913646
SNP_P4_110344_297286	NW_004515647.1	Scaffold17	297286	TT	CC	1946913648
SNP_P4_110345_297289	NW_004515647.1	Scaffold17	297289	CC	TT	1946913650
SNP_P4_110346_297291	NW_004515647.1	Scaffold17	297291	TT	CC	1946913652
SNP_P4_110347_297296	NW_004515647.1	Scaffold17	297296	TT	CC	1946913654
SNP_P4_110349_13277	NW_004515648.1	Scaffold22	13277	TT	CC	1946913655
SNP_P4_110350_13296	NW_004515648.1	Scaffold22	13296	CC	TT	1946913657
SNP_P4_110352_24527	NW_004515648.1	Scaffold22	24527	AA	GG	1946913659
SNP_P4_110353_24530	NW_004515648.1	Scaffold22	24530	CC	TT	1946913661
SNP_P4_110354_24869	NW_004515648.1	Scaffold22	24869	AA	GG	1946913663
SNP_P4_110355_24879	NW_004515648.1	Scaffold22	24879	TT	CC	1946913665
SNP_P4_110356_24948	NW_004515648.1	Scaffold22	24948	AA	TT	1946913667
SNP_P4_110357_25000	NW_004515648.1	Scaffold22	25000	CC	AA	1946913669
SNP_P4_110358_25018	NW_004515648.1	Scaffold22	25018	GG	AA	1946913671
SNP_P4_110359_25019	NW_004515648.1	Scaffold22	25019	TT	AA	1946913673
SNP_P4_110360_29132	NW_004515648.1	Scaffold22	29132	TT	CC	1946913675
SNP_P4_110361_29574	NW_004515648.1	Scaffold22	29574	AA	GG	1946913677
SNP_P4_110362_32666	NW_004515648.1	Scaffold22	32666	TT	CC	1946913679
SNP_P4_110363_34280	NW_004515648.1	Scaffold22	34280	TT	CC	1946913681
SNP_P4_110364_34287	NW_004515648.1	Scaffold22	34287	GG	AA	1946913683
SNP_P4_110365_34289	NW_004515648.1	Scaffold22	34289	AA	GG	1946913685
SNP_P4_110366_34295	NW_004515648.1	Scaffold22	34295	AA	CC	1946913687
SNP_P4_110367_34303	NW_004515648.1	Scaffold22	34303	AA	GG	1946913689
SNP_P4_110368_34316	NW_004515648.1	Scaffold22	34316	TT	CC	1946913691
SNP_P4_110369_34359	NW_004515648.1	Scaffold22	34359	AA	CC	1946913693
SNP_P4_110370_34369	NW_004515648.1	Scaffold22	34369	TT	CC	1946913695
SNP_P4_110371_34394	NW_004515648.1	Scaffold22	34394	AA	GG	1946913697
SNP_P4_110372_34427	NW_004515648.1	Scaffold22	34427	CC	AA	1946913699
SNP_P4_110373_34429	NW_004515648.1	Scaffold22	34429	GG	AA	1946913701
SNP_P4_110374_34434	NW_004515648.1	Scaffold22	34434	TT	GG	1946913703
SNP_P4_110375_34493	NW_004515648.1	Scaffold22	34493	TT	GG	1946913705
SNP_P4_110377_34570	NW_004515648.1	Scaffold22	34570	CC	TT	1946913707
SNP_P4_110378_34647	NW_004515648.1	Scaffold22	34647	GG	TT	1946913709
SNP_P4_110379_34724	NW_004515648.1	Scaffold22	34724	TT	CC	1946913711

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_110380_34752	NW_004515648.1	Scaffold22	34752	GG	AA	1946913713
SNP_P4_110381_34761	NW_004515648.1	Scaffold22	34761	AA	GG	1946913715
SNP_P4_110382_34766	NW_004515648.1	Scaffold22	34766	GG	AA	1946913717
SNP_P4_110383_34767	NW_004515648.1	Scaffold22	34767	GG	AA	1946913719
SNP_P4_110384_34810	NW_004515648.1	Scaffold22	34810	CC	AA	1946913721
SNP_P4_110385_34998	NW_004515648.1	Scaffold22	34998	CC	GG	1946913723
SNP_P4_110386_41747	NW_004515648.1	Scaffold22	41747	AA	GG	1946913725
SNP_P4_110387_41837	NW_004515648.1	Scaffold22	41837	GG	TT	1946913727
SNP_P4_110388_41915	NW_004515648.1	Scaffold22	41915	AA	GG	1946913729
SNP_P4_110389_89	NW_004515649.1	Scaffold25	89	AA	GG	1946913731
SNP_P4_110390_120	NW_004515649.1	Scaffold25	120	CC	AA	1946913733
SNP_P4_110391_13852	NW_004515649.1	Scaffold25	13852	CC	TT	1946913735
SNP_P4_110392_13929	NW_004515649.1	Scaffold25	13929	AA	TT	1946913737
SNP_P4_110393_14336	NW_004515649.1	Scaffold25	14336	TT	CC	1946913739
SNP_P4_110394_14756	NW_004515649.1	Scaffold25	14756	CC	GG	1946913741
SNP_P4_110395_16117	NW_004515649.1	Scaffold25	16117	AA	GG	1946913743
SNP_P4_110396_17215	NW_004515649.1	Scaffold25	17215	TT	GG	1946913745
SNP_P4_110397_20369	NW_004515649.1	Scaffold25	20369	TT	CC	1946913747
SNP_P4_110398_22412	NW_004515649.1	Scaffold25	22412	CC	AA	1946913749
SNP_P4_110399_33851	NW_004515649.1	Scaffold25	33851	AA	TT	1946913751
SNP_P4_110400_36967	NW_004515649.1	Scaffold25	36967	CC	TT	1946913753
SNP_P4_110402_39357	NW_004515649.1	Scaffold25	39357	GG	AA	1946913755
SNP_P4_110403_39449	NW_004515649.1	Scaffold25	39449	TT	AA	1946913757
SNP_P4_110404_39480	NW_004515649.1	Scaffold25	39480	TT	CC	1946913759
SNP_P4_110405_39515	NW_004515649.1	Scaffold25	39515	GG	TT	1946913761
SNP_P4_110406_39747	NW_004515649.1	Scaffold25	39747	GG	TT	1946913763
SNP_P4_110407_41791	NW_004515649.1	Scaffold25	41791	GG	TT	1946913765
SNP_P4_110408_43124	NW_004515649.1	Scaffold25	43124	CC	TT	1946913767
SNP_P4_110409_43131	NW_004515649.1	Scaffold25	43131	CC	AA	1946913769
SNP_P4_110410_43300	NW_004515649.1	Scaffold25	43300	TT	GG	1946913771
SNP_P4_110411_43344	NW_004515649.1	Scaffold25	43344	GG	AA	1946913773
SNP_P4_110412_43428	NW_004515649.1	Scaffold25	43428	TT	CC	1946913775
SNP_P4_110413_43451	NW_004515649.1	Scaffold25	43451	TT	AA	1946913777
SNP_P4_110414_43456	NW_004515649.1	Scaffold25	43456	TT	CC	1946913779
SNP_P4_110415_43479	NW_004515649.1	Scaffold25	43479	CC	TT	1946913781
SNP_P4_110416_43481	NW_004515649.1	Scaffold25	43481	AA	GG	1946913783
SNP_P4_110417_43485	NW_004515649.1	Scaffold25	43485	TT	AA	1946913785
SNP_P4_110418_43506	NW_004515649.1	Scaffold25	43506	TT	AA	1946913787
SNP_P4_110419_46342	NW_004515649.1	Scaffold25	46342	CC	TT	1946913789
SNP_P4_110420_46477	NW_004515649.1	Scaffold25	46477	GG	CC	1946913791
SNP_P4_110421_49152	NW_004515649.1	Scaffold25	49152	CC	TT	1946913793
SNP_P4_110422_49188	NW_004515649.1	Scaffold25	49188	AA	TT	1946913795

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_110423_49189	NW_004515649.1	Scaffold25	49189	CC	TT	1946913797
SNP_P4_110424_50904	NW_004515649.1	Scaffold25	50904	CC	GG	1946913799
SNP_P4_110425_50994	NW_004515649.1	Scaffold25	50994	TT	AA	1946913801
SNP_P4_110426_51251	NW_004515649.1	Scaffold25	51251	GG	TT	1946913803
SNP_P4_110427_51412	NW_004515649.1	Scaffold25	51412	TT	CC	1946913805
SNP_P4_110428_52907	NW_004515649.1	Scaffold25	52907	GG	CC	1946913807
SNP_P4_110429_55183	NW_004515649.1	Scaffold25	55183	AA	GG	1946913809
SNP_P4_110430_55301	NW_004515649.1	Scaffold25	55301	CC	TT	1946913811
SNP_P4_110431_55334	NW_004515649.1	Scaffold25	55334	TT	AA	1946913813
SNP_P4_110432_55347	NW_004515649.1	Scaffold25	55347	GG	TT	1946913815
SNP_P4_110433_55358	NW_004515649.1	Scaffold25	55358	GG	TT	1946913817
SNP_P4_110434_55396	NW_004515649.1	Scaffold25	55396	AA	TT	1946913819
SNP_P4_110435_55556	NW_004515649.1	Scaffold25	55556	AA	GG	1946913821
SNP_P4_110436_56814	NW_004515649.1	Scaffold25	56814	TT	AA	1946913823
SNP_P4_110437_57118	NW_004515649.1	Scaffold25	57118	CC	TT	1946913825
SNP_P4_110438_57128	NW_004515649.1	Scaffold25	57128	CC	TT	1946913827
SNP_P4_110439_57201	NW_004515649.1	Scaffold25	57201	TT	GG	1946913829
SNP_P4_110440_57225	NW_004515649.1	Scaffold25	57225	TT	CC	1946913831
SNP_P4_110441_57478	NW_004515649.1	Scaffold25	57478	TT	AA	1946913833
SNP_P4_110442_57625	NW_004515649.1	Scaffold25	57625	CC	TT	1946913835
SNP_P4_110443_58148	NW_004515649.1	Scaffold25	58148	AA	TT	1946913837
SNP_P4_110444_59209	NW_004515649.1	Scaffold25	59209	TT	AA	1946913839
SNP_P4_110445_59227	NW_004515649.1	Scaffold25	59227	CC	TT	1946913841
SNP_P4_110446_59877	NW_004515649.1	Scaffold25	59877	GG	TT	1946913843
SNP_P4_110447_60400	NW_004515649.1	Scaffold25	60400	GG	CC	1946913845
SNP_P4_110448_60584	NW_004515649.1	Scaffold25	60584	AA	TT	1946913847
SNP_P4_110449_60728	NW_004515649.1	Scaffold25	60728	CC	TT	1946913849
SNP_P4_110450_62048	NW_004515649.1	Scaffold25	62048	CC	AA	1946913851
SNP_P4_110451_62183	NW_004515649.1	Scaffold25	62183	AA	CC	1946913853
SNP_P4_110452_62277	NW_004515649.1	Scaffold25	62277	GG	AA	1946913855
SNP_P4_110453_62383	NW_004515649.1	Scaffold25	62383	AA	GG	1946913857
SNP_P4_110454_66430	NW_004515649.1	Scaffold25	66430	AA	TT	1946913859
SNP_P4_110456_69021	NW_004515649.1	Scaffold25	69021	TT	CC	1946913861
SNP_P4_110457_69342	NW_004515649.1	Scaffold25	69342	CC	AA	1946913863
SNP_P4_110458_69756	NW_004515649.1	Scaffold25	69756	TT	CC	1946913865
SNP_P4_110459_71161	NW_004515649.1	Scaffold25	71161	AA	TT	1946913867
SNP_P4_110460_71168	NW_004515649.1	Scaffold25	71168	CC	TT	1946913869
SNP_P4_110461_71170	NW_004515649.1	Scaffold25	71170	TT	CC	1946913871
SNP_P4_110462_71171	NW_004515649.1	Scaffold25	71171	CC	TT	1946913873
SNP_P4_110463_71232	NW_004515649.1	Scaffold25	71232	CC	AA	1946913875
SNP_P4_110464_71238	NW_004515649.1	Scaffold25	71238	AA	GG	1946913877
SNP_P4_110465_71268	NW_004515649.1	Scaffold25	71268	AA	CC	1946913879

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_110467_71409	NW_004515649.1	Scaffold25	71409	GG	AA	1946913883
SNP_P4_110468_71429	NW_004515649.1	Scaffold25	71429	AA	GG	1946913885
SNP_P4_110469_72611	NW_004515649.1	Scaffold25	72611	TT	CC	1946913887
SNP_P4_110470_72741	NW_004515649.1	Scaffold25	72741	AA	CC	1946913889
SNP_P4_110471_73699	NW_004515649.1	Scaffold25	73699	GG	CC	1946913891
SNP_P4_110472_73847	NW_004515649.1	Scaffold25	73847	AA	TT	1946913893
SNP_P4_110473_76056	NW_004515649.1	Scaffold25	76056	AA	CC	1946913895
SNP_P4_110474_76169	NW_004515649.1	Scaffold25	76169	CC	TT	1946913897
SNP_P4_110476_76324	NW_004515649.1	Scaffold25	76324	AA	CC	1946913899
SNP_P4_110477_78078	NW_004515649.1	Scaffold25	78078	AA	GG	1946913901
SNP_P4_110478_78079	NW_004515649.1	Scaffold25	78079	AA	GG	1946913903
SNP_P4_110479_78080	NW_004515649.1	Scaffold25	78080	GG	AA	1946913905
SNP_P4_110480_79083	NW_004515649.1	Scaffold25	79083	AA	CC	1946913907
SNP_P4_110481_2198	NW_004515650.1	Scaffold26	2198	TT	AA	1946913909
SNP_P4_110482_4387	NW_004515650.1	Scaffold26	4387	TT	CC	1946913911
SNP_P4_110483_6132	NW_004515650.1	Scaffold26	6132	TT	GG	1946913913
SNP_P4_110484_6134	NW_004515650.1	Scaffold26	6134	TT	CC	1946913915
SNP_P4_110485_6169	NW_004515650.1	Scaffold26	6169	GG	TT	1946913917
SNP_P4_110486_6206	NW_004515650.1	Scaffold26	6206	TT	AA	1946913919
SNP_P4_110487_6463	NW_004515650.1	Scaffold26	6463	TT	GG	1946913921
SNP_P4_110488_6681	NW_004515650.1	Scaffold26	6681	TT	CC	1946913923
SNP_P4_110489_18862	NW_004515650.1	Scaffold26	18862	TT	CC	1946913925
SNP_P4_110490_18870	NW_004515650.1	Scaffold26	18870	AA	CC	1946913927
SNP_P4_110491_18894	NW_004515650.1	Scaffold26	18894	CC	TT	1946913929
SNP_P4_110492_18945	NW_004515650.1	Scaffold26	18945	GG	AA	1946913931
SNP_P4_110493_19237	NW_004515650.1	Scaffold26	19237	AA	TT	1946913933
SNP_P4_110494_20450	NW_004515650.1	Scaffold26	20450	GG	AA	1946913935
SNP_P4_110495_20468	NW_004515650.1	Scaffold26	20468	GG	AA	1946913937
SNP_P4_110496_20854	NW_004515650.1	Scaffold26	20854	TT	CC	1946913939
SNP_P4_110497_25144	NW_004515650.1	Scaffold26	25144	TT	AA	1946913941
SNP_P4_110498_69310	NW_004515650.1	Scaffold26	69310	TT	CC	1946913943
SNP_P4_110500_112374	NW_004515650.1	Scaffold26	112374	TT	GG	1946913945
SNP_P4_110501_112376	NW_004515650.1	Scaffold26	112376	AA	GG	1946913947
SNP_P4_110502_123390	NW_004515650.1	Scaffold26	123390	GG	AA	1946913949
SNP_P4_110503_126777	NW_004515650.1	Scaffold26	126777	AA	GG	1946913951
SNP_P4_110504_126796	NW_004515650.1	Scaffold26	126796	AA	GG	1946913953
SNP_P4_110505_126816	NW_004515650.1	Scaffold26	126816	AA	GG	1946913955
SNP_P4_110506_126829	NW_004515650.1	Scaffold26	126829	AA	GG	1946913957
SNP_P4_110507_126846	NW_004515650.1	Scaffold26	126846	AA	GG	1946913959
SNP_P4_110508_126998	NW_004515650.1	Scaffold26	126998	AA	CC	1946913961
SNP_P4_110509_145329	NW_004515650.1	Scaffold26	145329	CC	AA	1946913963

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_110511_191741	NW_004515650.1	Scaffold26	191741	AA	CC	1946913967
SNP_P4_110512_191780	NW_004515650.1	Scaffold26	191780	GG	AA	1946913969
SNP_P4_110513_205320	NW_004515650.1	Scaffold26	205320	TT	GG	1946913971
SNP_P4_110514_205656	NW_004515650.1	Scaffold26	205656	GG	TT	1946913973
SNP_P4_110515_205658	NW_004515650.1	Scaffold26	205658	CC	TT	1946913975
SNP_P4_110516_209158	NW_004515650.1	Scaffold26	209158	TT	GG	1946913977
SNP_P4_110517_209194	NW_004515650.1	Scaffold26	209194	GG	AA	1946913979
SNP_P4_110518_209197	NW_004515650.1	Scaffold26	209197	GG	TT	1946913981
SNP_P4_110519_224354	NW_004515650.1	Scaffold26	224354	GG	AA	1946913983
SNP_P4_110520_224358	NW_004515650.1	Scaffold26	224358	GG	AA	1946913985
SNP_P4_110521_224405	NW_004515650.1	Scaffold26	224405	TT	CC	1946913987
SNP_P4_110522_224685	NW_004515650.1	Scaffold26	224685	TT	CC	1946913989
SNP_P4_110523_224757	NW_004515650.1	Scaffold26	224757	GG	TT	1946913991
SNP_P4_110524_227551	NW_004515650.1	Scaffold26	227551	TT	AA	1946913993
SNP_P4_110525_227573	NW_004515650.1	Scaffold26	227573	GG	AA	1946913995
SNP_P4_110526_227668	NW_004515650.1	Scaffold26	227668	TT	CC	1946913997
SNP_P4_110527_227709	NW_004515650.1	Scaffold26	227709	TT	CC	1946913999
SNP_P4_110529_293216	NW_004515650.1	Scaffold26	293216	CC	AA	1946914001
SNP_P4_110530_294707	NW_004515650.1	Scaffold26	294707	GG	TT	1946914003
SNP_P4_110531_294816	NW_004515650.1	Scaffold26	294816	AA	GG	1946914005
SNP_P4_110532_295001	NW_004515650.1	Scaffold26	295001	CC	AA	1946914007
SNP_P4_110533_295002	NW_004515650.1	Scaffold26	295002	AA	CC	1946914009
SNP_P4_110534_295003	NW_004515650.1	Scaffold26	295003	AA	TT	1946914011
SNP_P4_110535_295016	NW_004515650.1	Scaffold26	295016	AA	GG	1946914013
SNP_P4_110536_295048	NW_004515650.1	Scaffold26	295048	CC	TT	1946914015
SNP_P4_110537_295068	NW_004515650.1	Scaffold26	295068	GG	AA	1946914017
SNP_P4_110538_295077	NW_004515650.1	Scaffold26	295077	CC	TT	1946914019
SNP_P4_110539_295090	NW_004515650.1	Scaffold26	295090	GG	TT	1946914021
SNP_P4_110540_295120	NW_004515650.1	Scaffold26	295120	GG	TT	1946914023
SNP_P4_110541_295129	NW_004515650.1	Scaffold26	295129	TT	GG	1946914025
SNP_P4_110542_295135	NW_004515650.1	Scaffold26	295135	GG	AA	1946914027
SNP_P4_110543_295160	NW_004515650.1	Scaffold26	295160	TT	GG	1946914029
SNP_P4_110544_295168	NW_004515650.1	Scaffold26	295168	CC	TT	1946914031
SNP_P4_110545_295260	NW_004515650.1	Scaffold26	295260	TT	CC	1946914033
SNP_P4_110546_323480	NW_004515650.1	Scaffold26	323480	AA	TT	1946914035
SNP_P4_110547_350651	NW_004515650.1	Scaffold26	350651	CC	TT	1946914037
SNP_P4_110548_400695	NW_004515650.1	Scaffold26	400695	TT	CC	1946914039
SNP_P4_110549_429913	NW_004515650.1	Scaffold26	429913	GG	TT	1946914041
SNP_P4_110550_455255	NW_004515650.1	Scaffold26	455255	AA	GG	1946914043
SNP_P4_110551_455256	NW_004515650.1	Scaffold26	455256	AA	GG	1946914045
SNP_P4_110552_455741	NW_004515650.1	Scaffold26	455741	AA	GG	1946914047

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_110553_469311	NW_004515650.1	Scaffold26	469311	AA	GG	1946914049
SNP_P4_110554_469630	NW_004515650.1	Scaffold26	469630	CC	TT	1946914051
SNP_P4_110555_469706	NW_004515650.1	Scaffold26	469706	AA	TT	1946914053
SNP_P4_110556_469708	NW_004515650.1	Scaffold26	469708	GG	AA	1946914055
SNP_P4_110557_469738	NW_004515650.1	Scaffold26	469738	AA	CC	1946914057
SNP_P4_110558_469782	NW_004515650.1	Scaffold26	469782	CC	TT	1946914059
SNP_P4_110559_469789	NW_004515650.1	Scaffold26	469789	GG	AA	1946914061
SNP_P4_110560_469804	NW_004515650.1	Scaffold26	469804	AA	GG	1946914063
SNP_P4_110561_469825	NW_004515650.1	Scaffold26	469825	TT	CC	1946914065
SNP_P4_110562_472138	NW_004515650.1	Scaffold26	472138	AA	GG	1946914067
SNP_P4_110563_472146	NW_004515650.1	Scaffold26	472146	TT	AA	1946914069
SNP_P4_110564_472232	NW_004515650.1	Scaffold26	472232	TT	GG	1946914071
SNP_P4_110565_486232	NW_004515650.1	Scaffold26	486232	AA	GG	1946914073
SNP_P4_110566_486245	NW_004515650.1	Scaffold26	486245	GG	AA	1946914075
SNP_P4_110567_486267	NW_004515650.1	Scaffold26	486267	CC	TT	1946914077
SNP_P4_110568_486512	NW_004515650.1	Scaffold26	486512	CC	AA	1946914079
SNP_P4_110569_486609	NW_004515650.1	Scaffold26	486609	TT	CC	1946914081
SNP_P4_110570_491273	NW_004515650.1	Scaffold26	491273	TT	AA	1946914083
SNP_P4_110571_501244	NW_004515650.1	Scaffold26	501244	AA	TT	1946914085
SNP_P4_110572_501258	NW_004515650.1	Scaffold26	501258	TT	GG	1946914087
SNP_P4_110573_501272	NW_004515650.1	Scaffold26	501272	TT	GG	1946914089
SNP_P4_110574_501454	NW_004515650.1	Scaffold26	501454	GG	AA	1946914091
SNP_P4_110575_501728	NW_004515650.1	Scaffold26	501728	TT	CC	1946914093
SNP_P4_110576_502182	NW_004515650.1	Scaffold26	502182	GG	TT	1946914095
SNP_P4_110577_502215	NW_004515650.1	Scaffold26	502215	GG	AA	1946914097
SNP_P4_110578_502489	NW_004515650.1	Scaffold26	502489	GG	AA	1946914099
SNP_P4_110579_502551	NW_004515650.1	Scaffold26	502551	GG	AA	1946914101
SNP_P4_110580_502923	NW_004515650.1	Scaffold26	502923	TT	AA	1946914103
SNP_P4_110581_502956	NW_004515650.1	Scaffold26	502956	GG	AA	1946914105
SNP_P4_110582_502966	NW_004515650.1	Scaffold26	502966	TT	CC	1946914107
SNP_P4_110583_503124	NW_004515650.1	Scaffold26	503124	TT	CC	1946914109
SNP_P4_110584_503238	NW_004515650.1	Scaffold26	503238	AA	GG	1946914111
SNP_P4_110585_503260	NW_004515650.1	Scaffold26	503260	GG	AA	1946914113
SNP_P4_110586_503274	NW_004515650.1	Scaffold26	503274	AA	GG	1946914115
SNP_P4_110587_503289	NW_004515650.1	Scaffold26	503289	GG	CC	1946914117
SNP_P4_110588_503303	NW_004515650.1	Scaffold26	503303	CC	TT	1946914119
SNP_P4_110589_503328	NW_004515650.1	Scaffold26	503328	AA	GG	1946914121
SNP_P4_110590_503354	NW_004515650.1	Scaffold26	503354	TT	CC	1946914123
SNP_P4_110591_503370	NW_004515650.1	Scaffold26	503370	AA	GG	1946914125
SNP_P4_110592_503376	NW_004515650.1	Scaffold26	503376	CC	TT	1946914127
SNP_P4_110593_503383	NW_004515650.1	Scaffold26	503383	TT	CC	1946914129
SNP_P4_110594_503393	NW_004515650.1	Scaffold26	503393	GG	AA	1946914131

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_110596_503431	NW_004515650.1	Scaffold26	503431	AA	GG	1946914135
SNP_P4_110597_503437	NW_004515650.1	Scaffold26	503437	TT	CC	1946914137
SNP_P4_110599_513394	NW_004515650.1	Scaffold26	513394	TT	CC	1946914139
SNP_P4_110600_513465	NW_004515650.1	Scaffold26	513465	AA	CC	1946914141
SNP_P4_110601_513520	NW_004515650.1	Scaffold26	513520	TT	CC	1946914143
SNP_P4_110602_543969	NW_004515650.1	Scaffold26	543969	CC	TT	1946914145
SNP_P4_110604_547005	NW_004515650.1	Scaffold26	547005	AA	CC	1946914147
SNP_P4_110605_559810	NW_004515650.1	Scaffold26	559810	AA	GG	1946914149
SNP_P4_110606_559818	NW_004515650.1	Scaffold26	559818	GG	TT	1946914151
SNP_P4_110607_560141	NW_004515650.1	Scaffold26	560141	TT	GG	1946914153
SNP_P4_110608_575682	NW_004515650.1	Scaffold26	575682	CC	TT	1946914155
SNP_P4_110609_575697	NW_004515650.1	Scaffold26	575697	CC	TT	1946914157
SNP_P4_110610_575700	NW_004515650.1	Scaffold26	575700	TT	CC	1946914159
SNP_P4_110612_575761	NW_004515650.1	Scaffold26	575761	CC	TT	1946914161
SNP_P4_110613_576490	NW_004515650.1	Scaffold26	576490	AA	GG	1946914163
SNP_P4_110614_576499	NW_004515650.1	Scaffold26	576499	TT	CC	1946914165
SNP_P4_110615_576516	NW_004515650.1	Scaffold26	576516	TT	CC	1946914167
SNP_P4_110616_576539	NW_004515650.1	Scaffold26	576539	TT	GG	1946914169
SNP_P4_110617_576559	NW_004515650.1	Scaffold26	576559	AA	GG	1946914171
SNP_P4_110618_584139	NW_004515650.1	Scaffold26	584139	TT	AA	1946914173
SNP_P4_110619_64	NW_004515651.1	Scaffold29	64	GG	AA	1946914175
SNP_P4_110620_122	NW_004515651.1	Scaffold29	122	CC	GG	1946914177
SNP_P4_110621_670	NW_004515651.1	Scaffold29	670	CC	AA	1946914179
SNP_P4_110622_759	NW_004515651.1	Scaffold29	759	TT	CC	1946914181
SNP_P4_110623_872	NW_004515651.1	Scaffold29	872	AA	GG	1946914183
SNP_P4_110624_3108	NW_004515651.1	Scaffold29	3108	AA	TT	1946914185
SNP_P4_110625_3169	NW_004515651.1	Scaffold29	3169	GG	AA	1946914187
SNP_P4_110626_7416	NW_004515651.1	Scaffold29	7416	AA	GG	1946914189
SNP_P4_110627_8470	NW_004515651.1	Scaffold29	8470	TT	GG	1946914191
SNP_P4_110628_8735	NW_004515651.1	Scaffold29	8735	AA	GG	1946914193
SNP_P4_110629_8803	NW_004515651.1	Scaffold29	8803	AA	CC	1946914195
SNP_P4_110630_12290	NW_004515651.1	Scaffold29	12290	CC	TT	1946914197
SNP_P4_110631_12789	NW_004515651.1	Scaffold29	12789	TT	CC	1946914199
SNP_P4_110632_16526	NW_004515651.1	Scaffold29	16526	AA	TT	1946914201
SNP_P4_110633_22385	NW_004515651.1	Scaffold29	22385	AA	TT	1946914203
SNP_P4_110634_30587	NW_004515651.1	Scaffold29	30587	GG	AA	1946914205
SNP_P4_110635_34003	NW_004515651.1	Scaffold29	34003	AA	GG	1946914207
SNP_P4_110636_34187	NW_004515651.1	Scaffold29	34187	AA	TT	1946914209
SNP_P4_110637_42279	NW_004515651.1	Scaffold29	42279	AA	CC	1946914211
SNP_P4_110638_42292	NW_004515651.1	Scaffold29	42292	AA	GG	1946914213
SNP_P4_110639_42302	NW_004515651.1	Scaffold29	42302	AA	TT	1946914215

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_110641_54316	NW_004515651.1	Scaffold29	54316	AA	GG	1946914219
SNP_P4_110642_55767	NW_004515651.1	Scaffold29	55767	AA	GG	1946914221
SNP_P4_110643_55797	NW_004515651.1	Scaffold29	55797	TT	GG	1946914223
SNP_P4_110644_55835	NW_004515651.1	Scaffold29	55835	AA	GG	1946914225
SNP_P4_110645_55883	NW_004515651.1	Scaffold29	55883	CC	TT	1946914227
SNP_P4_110646_63311	NW_004515651.1	Scaffold29	63311	TT	CC	1946914229
SNP_P4_110647_63352	NW_004515651.1	Scaffold29	63352	GG	AA	1946914231
SNP_P4_110648_63367	NW_004515651.1	Scaffold29	63367	TT	CC	1946914233
SNP_P4_110649_63794	NW_004515651.1	Scaffold29	63794	CC	TT	1946914235
SNP_P4_110650_80700	NW_004515651.1	Scaffold29	80700	TT	GG	1946914237
SNP_P4_110651_84620	NW_004515651.1	Scaffold29	84620	AA	GG	1946914239
SNP_P4_110652_85958	NW_004515651.1	Scaffold29	85958	CC	AA	1946914241
SNP_P4_110653_90951	NW_004515651.1	Scaffold29	90951	TT	CC	1946914243
SNP_P4_110654_90980	NW_004515651.1	Scaffold29	90980	CC	TT	1946914245
SNP_P4_110655_91236	NW_004515651.1	Scaffold29	91236	CC	GG	1946914247
SNP_P4_110656_91249	NW_004515651.1	Scaffold29	91249	GG	TT	1946914249
SNP_P4_110657_91251	NW_004515651.1	Scaffold29	91251	GG	TT	1946914251
SNP_P4_110658_91274	NW_004515651.1	Scaffold29	91274	CC	AA	1946914253
SNP_P4_110659_91284	NW_004515651.1	Scaffold29	91284	TT	CC	1946914255
SNP_P4_110660_91318	NW_004515651.1	Scaffold29	91318	CC	AA	1946914257
SNP_P4_110661_91325	NW_004515651.1	Scaffold29	91325	TT	CC	1946914259
SNP_P4_110662_91372	NW_004515651.1	Scaffold29	91372	GG	AA	1946914261
SNP_P4_110663_91424	NW_004515651.1	Scaffold29	91424	TT	CC	1946914263
SNP_P4_110664_91514	NW_004515651.1	Scaffold29	91514	TT	GG	1946914265
SNP_P4_110665_91785	NW_004515651.1	Scaffold29	91785	TT	AA	1946914267
SNP_P4_110666_91806	NW_004515651.1	Scaffold29	91806	AA	GG	1946914269
SNP_P4_110667_92071	NW_004515651.1	Scaffold29	92071	AA	CC	1946914271
SNP_P4_110668_92096	NW_004515651.1	Scaffold29	92096	GG	TT	1946914273
SNP_P4_110669_92124	NW_004515651.1	Scaffold29	92124	AA	CC	1946914275
SNP_P4_110670_92127	NW_004515651.1	Scaffold29	92127	CC	TT	1946914277
SNP_P4_110671_92212	NW_004515651.1	Scaffold29	92212	AA	GG	1946914279
SNP_P4_110672_92231	NW_004515651.1	Scaffold29	92231	CC	TT	1946914281
SNP_P4_110673_92417	NW_004515651.1	Scaffold29	92417	CC	AA	1946914283
SNP_P4_110674_92954	NW_004515651.1	Scaffold29	92954	GG	AA	1946914285
SNP_P4_110675_93050	NW_004515651.1	Scaffold29	93050	AA	CC	1946914287
SNP_P4_110676_93183	NW_004515651.1	Scaffold29	93183	CC	AA	1946914289
SNP_P4_110677_93184	NW_004515651.1	Scaffold29	93184	AA	CC	1946914291
SNP_P4_110678_93232	NW_004515651.1	Scaffold29	93232	GG	CC	1946914293
SNP_P4_110679_93296	NW_004515651.1	Scaffold29	93296	CC	AA	1946914295
SNP_P4_110680_93300	NW_004515651.1	Scaffold29	93300	AA	GG	1946914297
SNP_P4_110681_93398	NW_004515651.1	Scaffold29	93398	CC	AA	1946914299

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_110684_93429	NW_004515651.1	Scaffold29	93429	TT	CC	1946914305
SNP_P4_110685_93466	NW_004515651.1	Scaffold29	93466	TT	CC	1946914307
SNP_P4_110686_93518	NW_004515651.1	Scaffold29	93518	TT	CC	1946914309
SNP_P4_110687_93530	NW_004515651.1	Scaffold29	93530	AA	GG	1946914311
SNP_P4_110688_93608	NW_004515651.1	Scaffold29	93608	AA	CC	1946914313
SNP_P4_110689_94827	NW_004515651.1	Scaffold29	94827	CC	TT	1946914315
SNP_P4_110690_95443	NW_004515651.1	Scaffold29	95443	TT	CC	1946914317
SNP_P4_110691_95456	NW_004515651.1	Scaffold29	95456	AA	GG	1946914319
SNP_P4_110692_95720	NW_004515651.1	Scaffold29	95720	AA	GG	1946914321
SNP_P4_110693_95744	NW_004515651.1	Scaffold29	95744	AA	GG	1946914323
SNP_P4_110694_95749	NW_004515651.1	Scaffold29	95749	GG	TT	1946914325
SNP_P4_110695_95775	NW_004515651.1	Scaffold29	95775	GG	TT	1946914327
SNP_P4_110696_96448	NW_004515651.1	Scaffold29	96448	TT	CC	1946914329
SNP_P4_110697_96463	NW_004515651.1	Scaffold29	96463	GG	AA	1946914331
SNP_P4_110698_96478	NW_004515651.1	Scaffold29	96478	CC	TT	1946914333
SNP_P4_110699_96493	NW_004515651.1	Scaffold29	96493	AA	GG	1946914335
SNP_P4_110700_96817	NW_004515651.1	Scaffold29	96817	TT	GG	1946914337
SNP_P4_110701_96837	NW_004515651.1	Scaffold29	96837	GG	TT	1946914339
SNP_P4_110702_97989	NW_004515651.1	Scaffold29	97989	TT	GG	1946914341
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SNP_P4_110705_98159	NW_004515651.1	Scaffold29	98159	TT	CC	1946914347
SNP_P4_110706_98162	NW_004515651.1	Scaffold29	98162	CC	TT	1946914349
SNP_P4_110707_98205	NW_004515651.1	Scaffold29	98205	AA	GG	1946914351
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SNP_P4_110709_98403	NW_004515651.1	Scaffold29	98403	CC	TT	1946914355
SNP_P4_110710_98510	NW_004515651.1	Scaffold29	98510	AA	GG	1946914357
SNP_P4_110711_98513	NW_004515651.1	Scaffold29	98513	AA	GG	1946914359
SNP_P4_110712_98638	NW_004515651.1	Scaffold29	98638	GG	CC	1946914361
SNP_P4_110713_98659	NW_004515651.1	Scaffold29	98659	TT	AA	1946914363
SNP_P4_110714_98685	NW_004515651.1	Scaffold29	98685	TT	CC	1946914365
SNP_P4_110715_98837	NW_004515651.1	Scaffold29	98837	GG	AA	1946914367
SNP_P4_110716_98858	NW_004515651.1	Scaffold29	98858	GG	AA	1946914369
SNP_P4_110717_98882	NW_004515651.1	Scaffold29	98882	CC	GG	1946914371
SNP_P4_110718_99016	NW_004515651.1	Scaffold29	99016	TT	GG	1946914373
SNP_P4_110719_99223	NW_004515651.1	Scaffold29	99223	CC	AA	1946914375
SNP_P4_110720_100478	NW_004515651.1	Scaffold29	100478	AA	GG	1946914377
SNP_P4_110721_100525	NW_004515651.1	Scaffold29	100525	TT	CC	1946914380
SNP_P4_110723_100657	NW_004515651.1	Scaffold29	100657	GG	AA	1946914382
SNP_P4_110724_100738	NW_004515651.1	Scaffold29	100738	AA	CC	1946914384

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_110725_100765	NW_004515651.1	Scaffold29	100765	TT	GG	1946914386
SNP_P4_110726_100794	NW_004515651.1	Scaffold29	100794	TT	CC	1946914388
SNP_P4_110727_100941	NW_004515651.1	Scaffold29	100941	GG	AA	1946914390
SNP_P4_110728_101000	NW_004515651.1	Scaffold29	101000	GG	CC	1946914392
SNP_P4_110729_101142	NW_004515651.1	Scaffold29	101142	TT	AA	1946914394
SNP_P4_110730_101159	NW_004515651.1	Scaffold29	101159	TT	CC	1946914396
SNP_P4_110731_101186	NW_004515651.1	Scaffold29	101186	CC	TT	1946914398
SNP_P4_110732_101363	NW_004515651.1	Scaffold29	101363	GG	AA	1946914400
SNP_P4_110733_101381	NW_004515651.1	Scaffold29	101381	TT	AA	1946914403
SNP_P4_110734_101414	NW_004515651.1	Scaffold29	101414	TT	CC	1946914405
SNP_P4_110735_101552	NW_004515651.1	Scaffold29	101552	GG	CC	1946914407
SNP_P4_110736_101585	NW_004515651.1	Scaffold29	101585	TT	AA	1946914409
SNP_P4_110737_101590	NW_004515651.1	Scaffold29	101590	AA	GG	1946914411
SNP_P4_110738_101642	NW_004515651.1	Scaffold29	101642	TT	CC	1946914413
SNP_P4_110739_101738	NW_004515651.1	Scaffold29	101738	TT	CC	1946914415
SNP_P4_110740_101808	NW_004515651.1	Scaffold29	101808	AA	CC	1946914417
SNP_P4_110741_101845	NW_004515651.1	Scaffold29	101845	CC	TT	1946914419
SNP_P4_110742_101866	NW_004515651.1	Scaffold29	101866	TT	GG	1946914421
SNP_P4_110743_101913	NW_004515651.1	Scaffold29	101913	GG	AA	1946914423
SNP_P4_110744_101922	NW_004515651.1	Scaffold29	101922	GG	TT	1946914425
SNP_P4_110745_101968	NW_004515651.1	Scaffold29	101968	GG	TT	1946914427
SNP_P4_110746_102030	NW_004515651.1	Scaffold29	102030	GG	TT	1946914429
SNP_P4_110747_102046	NW_004515651.1	Scaffold29	102046	GG	AA	1946914431
SNP_P4_110748_102060	NW_004515651.1	Scaffold29	102060	CC	AA	1946914433
SNP_P4_110749_102175	NW_004515651.1	Scaffold29	102175	GG	AA	1946914435
SNP_P4_110750_102188	NW_004515651.1	Scaffold29	102188	AA	GG	1946914437
SNP_P4_110751_102281	NW_004515651.1	Scaffold29	102281	GG	CC	1946914439
SNP_P4_110752_102321	NW_004515651.1	Scaffold29	102321	AA	GG	1946914441
SNP_P4_110753_102332	NW_004515651.1	Scaffold29	102332	CC	GG	1946914443
SNP_P4_110754_102428	NW_004515651.1	Scaffold29	102428	CC	TT	1946914446
SNP_P4_110755_102456	NW_004515651.1	Scaffold29	102456	GG	TT	1946914448
SNP_P4_110756_102545	NW_004515651.1	Scaffold29	102545	GG	AA	1946914450
SNP_P4_110757_102549	NW_004515651.1	Scaffold29	102549	AA	CC	1946914452
SNP_P4_110758_108705	NW_004515651.1	Scaffold29	108705	CC	AA	1946914453
SNP_P4_110759_108742	NW_004515651.1	Scaffold29	108742	CC	AA	1946914455
SNP_P4_110760_108805	NW_004515651.1	Scaffold29	108805	AA	GG	1946914457
SNP_P4_110761_108814	NW_004515651.1	Scaffold29	108814	AA	CC	1946914459
SNP_P4_110762_108921	NW_004515651.1	Scaffold29	108921	TT	CC	1946914461
SNP_P4_110763_108962	NW_004515651.1	Scaffold29	108962	TT	AA	1946914463
SNP_P4_110764_109240	NW_004515651.1	Scaffold29	109240	GG	AA	1946914465
SNP_P4_110765_112168	NW_004515651.1	Scaffold29	112168	AA	GG	1946914467
SNP_P4_110766_117879	NW_004515651.1	Scaffold29	117879	AA	CC	1946914469

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_110768_118164	NW_004515651.1	Scaffold29	118164	AA	GG	1946914473
SNP_P4_110769_118207	NW_004515651.1	Scaffold29	118207	TT	CC	1946914475
SNP_P4_110770_120029	NW_004515651.1	Scaffold29	120029	CC	TT	1946914477
SNP_P4_110771_120040	NW_004515651.1	Scaffold29	120040	TT	CC	1946914479
SNP_P4_110772_120063	NW_004515651.1	Scaffold29	120063	GG	AA	1946914481
SNP_P4_110773_120082	NW_004515651.1	Scaffold29	120082	TT	CC	1946914483
SNP_P4_110774_120094	NW_004515651.1	Scaffold29	120094	TT	CC	1946914485
SNP_P4_110775_120118	NW_004515651.1	Scaffold29	120118	GG	AA	1946914487
SNP_P4_110776_120119	NW_004515651.1	Scaffold29	120119	AA	GG	1946914489
SNP_P4_110777_120135	NW_004515651.1	Scaffold29	120135	CC	TT	1946914491
SNP_P4_110778_120138	NW_004515651.1	Scaffold29	120138	TT	AA	1946914493
SNP_P4_110779_120140	NW_004515651.1	Scaffold29	120140	TT	CC	1946914495
SNP_P4_110780_120258	NW_004515651.1	Scaffold29	120258	TT	CC	1946914497
SNP_P4_110781_120275	NW_004515651.1	Scaffold29	120275	TT	GG	1946914499
SNP_P4_110782_120277	NW_004515651.1	Scaffold29	120277	AA	TT	1946914501
SNP_P4_110783_120317	NW_004515651.1	Scaffold29	120317	CC	AA	1946914503
SNP_P4_110784_120407	NW_004515651.1	Scaffold29	120407	AA	GG	1946914505
SNP_P4_110785_120500	NW_004515651.1	Scaffold29	120500	GG	AA	1946914507
SNP_P4_110786_120792	NW_004515651.1	Scaffold29	120792	TT	GG	1946914509
SNP_P4_110787_120801	NW_004515651.1	Scaffold29	120801	TT	CC	1946914511
SNP_P4_110788_120892	NW_004515651.1	Scaffold29	120892	AA	TT	1946914513
SNP_P4_110789_120959	NW_004515651.1	Scaffold29	120959	AA	TT	1946914515
SNP_P4_110790_121000	NW_004515651.1	Scaffold29	121000	GG	TT	1946914517
SNP_P4_110791_121010	NW_004515651.1	Scaffold29	121010	TT	AA	1946914519
SNP_P4_110792_121859	NW_004515651.1	Scaffold29	121859	GG	AA	1946914521
SNP_P4_110793_126285	NW_004515651.1	Scaffold29	126285	AA	GG	1946914523
SNP_P4_110794_126629	NW_004515651.1	Scaffold29	126629	TT	GG	1946914525
SNP_P4_110795_127847	NW_004515651.1	Scaffold29	127847	CC	TT	1946914527
SNP_P4_110796_127871	NW_004515651.1	Scaffold29	127871	GG	AA	1946914529
SNP_P4_110797_134642	NW_004515651.1	Scaffold29	134642	AA	GG	1946914531
SNP_P4_110798_134725	NW_004515651.1	Scaffold29	134725	CC	TT	1946914533
SNP_P4_110799_134779	NW_004515651.1	Scaffold29	134779	AA	TT	1946914535
SNP_P4_110800_134803	NW_004515651.1	Scaffold29	134803	CC	TT	1946914537
SNP_P4_110801_134810	NW_004515651.1	Scaffold29	134810	TT	AA	1946914539
SNP_P4_110802_134874	NW_004515651.1	Scaffold29	134874	CC	AA	1946914541
SNP_P4_110803_134952	NW_004515651.1	Scaffold29	134952	TT	CC	1946914543
SNP_P4_110804_134953	NW_004515651.1	Scaffold29	134953	GG	AA	1946914545
SNP_P4_110805_134958	NW_004515651.1	Scaffold29	134958	CC	GG	1946914547
SNP_P4_110806_134960	NW_004515651.1	Scaffold29	134960	AA	GG	1946914549
SNP_P4_110807_134965	NW_004515651.1	Scaffold29	134965	CC	AA	1946914551
SNP_P4_110808_135009	NW_004515651.1	Scaffold29	135009	CC	AA	1946914553

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_110810_135066	NW_004515651.1	Scaffold29	135066	TT	GG	1946914557
SNP_P4_110811_135067	NW_004515651.1	Scaffold29	135067	TT	CC	1946914559
SNP_P4_110812_135263	NW_004515651.1	Scaffold29	135263	AA	GG	1946914561
SNP_P4_110813_135383	NW_004515651.1	Scaffold29	135383	CC	AA	1946914563
SNP_P4_110814_135384	NW_004515651.1	Scaffold29	135384	CC	TT	1946914565
SNP_P4_110815_135385	NW_004515651.1	Scaffold29	135385	AA	GG	1946914567
SNP_P4_110816_135421	NW_004515651.1	Scaffold29	135421	TT	CC	1946914569
SNP_P4_110817_135429	NW_004515651.1	Scaffold29	135429	GG	CC	1946914571
SNP_P4_110818_135565	NW_004515651.1	Scaffold29	135565	GG	CC	1946914573
SNP_P4_110819_135595	NW_004515651.1	Scaffold29	135595	AA	TT	1946914575
SNP_P4_110820_135597	NW_004515651.1	Scaffold29	135597	AA	CC	1946914577
SNP_P4_110821_137601	NW_004515651.1	Scaffold29	137601	AA	CC	1946914579
SNP_P4_110822_137620	NW_004515651.1	Scaffold29	137620	TT	AA	1946914581
SNP_P4_110823_137657	NW_004515651.1	Scaffold29	137657	TT	AA	1946914583
SNP_P4_110824_137666	NW_004515651.1	Scaffold29	137666	TT	CC	1946914585
SNP_P4_110825_137667	NW_004515651.1	Scaffold29	137667	GG	AA	1946914587
SNP_P4_110826_137684	NW_004515651.1	Scaffold29	137684	CC	TT	1946914589
SNP_P4_110827_137687	NW_004515651.1	Scaffold29	137687	GG	AA	1946914591
SNP_P4_110828_137764	NW_004515651.1	Scaffold29	137764	CC	AA	1946914593
SNP_P4_110829_137803	NW_004515651.1	Scaffold29	137803	TT	AA	1946914595
SNP_P4_110830_137849	NW_004515651.1	Scaffold29	137849	TT	GG	1946914597
SNP_P4_110831_137857	NW_004515651.1	Scaffold29	137857	TT	GG	1946914599
SNP_P4_110832_137892	NW_004515651.1	Scaffold29	137892	TT	CC	1946914601
SNP_P4_110833_137933	NW_004515651.1	Scaffold29	137933	CC	AA	1946914603
SNP_P4_110834_137961	NW_004515651.1	Scaffold29	137961	GG	AA	1946914605
SNP_P4_110835_137964	NW_004515651.1	Scaffold29	137964	GG	CC	1946914607
SNP_P4_110836_137966	NW_004515651.1	Scaffold29	137966	CC	GG	1946914609
SNP_P4_110837_138001	NW_004515651.1	Scaffold29	138001	GG	AA	1946914611
SNP_P4_110838_138077	NW_004515651.1	Scaffold29	138077	GG	TT	1946914613
SNP_P4_110839_138079	NW_004515651.1	Scaffold29	138079	CC	GG	1946914615
SNP_P4_110840_138182	NW_004515651.1	Scaffold29	138182	GG	CC	1946914617
SNP_P4_110841_138237	NW_004515651.1	Scaffold29	138237	GG	AA	1946914619
SNP_P4_110842_138344	NW_004515651.1	Scaffold29	138344	CC	AA	1946914621
SNP_P4_110843_138381	NW_004515651.1	Scaffold29	138381	TT	CC	1946914623
SNP_P4_110844_138419	NW_004515651.1	Scaffold29	138419	GG	TT	1946914625
SNP_P4_110845_138436	NW_004515651.1	Scaffold29	138436	GG	AA	1946914627
SNP_P4_110846_138437	NW_004515651.1	Scaffold29	138437	AA	TT	1946914629
SNP_P4_110847_138438	NW_004515651.1	Scaffold29	138438	AA	TT	1946914631
SNP_P4_110848_138513	NW_004515651.1	Scaffold29	138513	TT	CC	1946914633
SNP_P4_110849_138862	NW_004515651.1	Scaffold29	138862	GG	AA	1946914635
SNP_P4_110850_138907	NW_004515651.1	Scaffold29	138907	CC	AA	1946914637

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_110851_143565	NW_004515651.1	Scaffold29	143565	GG	AA	1946914639
SNP_P4_110852_144869	NW_004515651.1	Scaffold29	144869	CC	TT	1946914641
SNP_P4_110853_144892	NW_004515651.1	Scaffold29	144892	TT	AA	1946914643
SNP_P4_110854_144905	NW_004515651.1	Scaffold29	144905	TT	GG	1946914645
SNP_P4_110855_145033	NW_004515651.1	Scaffold29	145033	TT	CC	1946914647
SNP_P4_110856_145185	NW_004515651.1	Scaffold29	145185	GG	AA	1946914649
SNP_P4_110857_145199	NW_004515651.1	Scaffold29	145199	TT	AA	1946914651
SNP_P4_110858_145215	NW_004515651.1	Scaffold29	145215	AA	GG	1946914653
SNP_P4_110859_145230	NW_004515651.1	Scaffold29	145230	AA	TT	1946914655
SNP_P4_110860_145309	NW_004515651.1	Scaffold29	145309	TT	AA	1946914657
SNP_P4_110861_145346	NW_004515651.1	Scaffold29	145346	AA	CC	1946914659
SNP_P4_110862_145356	NW_004515651.1	Scaffold29	145356	TT	GG	1946914661
SNP_P4_110863_145366	NW_004515651.1	Scaffold29	145366	TT	GG	1946914663
SNP_P4_110864_145414	NW_004515651.1	Scaffold29	145414	AA	CC	1946914665
SNP_P4_110865_145524	NW_004515651.1	Scaffold29	145524	CC	TT	1946914667
SNP_P4_110866_147077	NW_004515651.1	Scaffold29	147077	TT	CC	1946914669
SNP_P4_110867_147095	NW_004515651.1	Scaffold29	147095	TT	GG	1946914671
SNP_P4_110868_147118	NW_004515651.1	Scaffold29	147118	CC	TT	1946914673
SNP_P4_110869_147155	NW_004515651.1	Scaffold29	147155	GG	AA	1946914675
SNP_P4_110870_147267	NW_004515651.1	Scaffold29	147267	CC	GG	1946914677
SNP_P4_110871_147275	NW_004515651.1	Scaffold29	147275	CC	TT	1946914679
SNP_P4_110872_147284	NW_004515651.1	Scaffold29	147284	AA	TT	1946914681
SNP_P4_110873_147286	NW_004515651.1	Scaffold29	147286	TT	AA	1946914683
SNP_P4_110874_147369	NW_004515651.1	Scaffold29	147369	TT	AA	1946914685
SNP_P4_110875_147411	NW_004515651.1	Scaffold29	147411	AA	GG	1946914687
SNP_P4_110876_147502	NW_004515651.1	Scaffold29	147502	GG	CC	1946914689
SNP_P4_110877_147510	NW_004515651.1	Scaffold29	147510	TT	AA	1946914691
SNP_P4_110878_147626	NW_004515651.1	Scaffold29	147626	TT	AA	1946914693
SNP_P4_110879_147654	NW_004515651.1	Scaffold29	147654	GG	AA	1946914695
SNP_P4_110880_147731	NW_004515651.1	Scaffold29	147731	AA	GG	1946914697
SNP_P4_110881_149630	NW_004515651.1	Scaffold29	149630	AA	GG	1946914699
SNP_P4_110882_150807	NW_004515651.1	Scaffold29	150807	AA	GG	1946914700
SNP_P4_110883_150840	NW_004515651.1	Scaffold29	150840	TT	GG	1946914701
SNP_P4_110884_150844	NW_004515651.1	Scaffold29	150844	TT	GG	1946914702
SNP_P4_110885_150882	NW_004515651.1	Scaffold29	150882	GG	AA	1946914703
SNP_P4_110886_150898	NW_004515651.1	Scaffold29	150898	GG	AA	1946914704
SNP_P4_110887_150929	NW_004515651.1	Scaffold29	150929	AA	TT	1946914705
SNP_P4_110888_150936	NW_004515651.1	Scaffold29	150936	TT	CC	1946914706
SNP_P4_110889_151057	NW_004515651.1	Scaffold29	151057	GG	TT	1946914707
SNP_P4_110890_151071	NW_004515651.1	Scaffold29	151071	GG	AA	1946914708
SNP_P4_110891_151154	NW_004515651.1	Scaffold29	151154	AA	GG	1946914709
SNP_P4_110892_151166	NW_004515651.1	Scaffold29	151166	TT	GG	1946914710

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_110894_167310	NW_004515651.1	Scaffold29	167310	TT	CC	1946914712
SNP_P4_110895_170298	NW_004515651.1	Scaffold29	170298	AA	CC	1946914713
SNP_P4_110896_170299	NW_004515651.1	Scaffold29	170299	TT	CC	1946914714
SNP_P4_110897_170319	NW_004515651.1	Scaffold29	170319	TT	CC	1946914715
SNP_P4_110898_170328	NW_004515651.1	Scaffold29	170328	AA	GG	1946914716
SNP_P4_110899_170634	NW_004515651.1	Scaffold29	170634	AA	GG	1946914717
SNP_P4_110900_177878	NW_004515651.1	Scaffold29	177878	GG	AA	1946914719
SNP_P4_110901_181561	NW_004515651.1	Scaffold29	181561	GG	AA	1946914721
SNP_P4_110902_183841	NW_004515651.1	Scaffold29	183841	TT	CC	1946914723
SNP_P4_110903_185800	NW_004515651.1	Scaffold29	185800	TT	CC	1946914725
SNP_P4_110904_186959	NW_004515651.1	Scaffold29	186959	AA	TT	1946914727
SNP_P4_110905_198427	NW_004515651.1	Scaffold29	198427	CC	AA	1946914729
SNP_P4_110906_198441	NW_004515651.1	Scaffold29	198441	CC	TT	1946914731
SNP_P4_110908_205461	NW_004515651.1	Scaffold29	205461	TT	GG	1946914733
SNP_P4_110909_205469	NW_004515651.1	Scaffold29	205469	GG	TT	1946914735
SNP_P4_110910_209417	NW_004515651.1	Scaffold29	209417	AA	CC	1946914737
SNP_P4_110911_209496	NW_004515651.1	Scaffold29	209496	TT	GG	1946914739
SNP_P4_110912_209543	NW_004515651.1	Scaffold29	209543	AA	CC	1946914741
SNP_P4_110913_209562	NW_004515651.1	Scaffold29	209562	GG	AA	1946914743
SNP_P4_110914_209571	NW_004515651.1	Scaffold29	209571	AA	GG	1946914745
SNP_P4_110915_209578	NW_004515651.1	Scaffold29	209578	TT	CC	1946914747
SNP_P4_110916_209641	NW_004515651.1	Scaffold29	209641	AA	GG	1946914749
SNP_P4_110917_209651	NW_004515651.1	Scaffold29	209651	AA	GG	1946914751
SNP_P4_110918_209682	NW_004515651.1	Scaffold29	209682	CC	TT	1946914753
SNP_P4_110919_209690	NW_004515651.1	Scaffold29	209690	TT	GG	1946914755
SNP_P4_110920_209711	NW_004515651.1	Scaffold29	209711	AA	GG	1946914758
SNP_P4_110921_209742	NW_004515651.1	Scaffold29	209742	AA	GG	1946914760
SNP_P4_110922_209751	NW_004515651.1	Scaffold29	209751	AA	GG	1946914762
SNP_P4_110923_209754	NW_004515651.1	Scaffold29	209754	GG	TT	1946914764
SNP_P4_110924_209764	NW_004515651.1	Scaffold29	209764	TT	CC	1946914766
SNP_P4_110925_209940	NW_004515651.1	Scaffold29	209940	CC	AA	1946914768
SNP_P4_110926_209946	NW_004515651.1	Scaffold29	209946	CC	TT	1946914770
SNP_P4_110927_214834	NW_004515651.1	Scaffold29	214834	AA	GG	1946914772
SNP_P4_110928_230218	NW_004515651.1	Scaffold29	230218	CC	TT	1946914774
SNP_P4_110929_230256	NW_004515651.1	Scaffold29	230256	GG	AA	1946914776
SNP_P4_110930_230378	NW_004515651.1	Scaffold29	230378	CC	TT	1946914778
SNP_P4_110931_230379	NW_004515651.1	Scaffold29	230379	AA	GG	1946914780
SNP_P4_110932_230732	NW_004515651.1	Scaffold29	230732	GG	TT	1946914783
SNP_P4_110933_232019	NW_004515651.1	Scaffold29	232019	GG	AA	1946914785
SNP_P4_110934_234317	NW_004515651.1	Scaffold29	234317	CC	AA	1946914787
SNP_P4_110935_234340	NW_004515651.1	Scaffold29	234340	AA	GG	1946914789

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_110937_234374	NW_004515651.1	Scaffold29	234374	AA	GG	1946914793
SNP_P4_110938_234785	NW_004515651.1	Scaffold29	234785	TT	CC	1946914795
SNP_P4_110939_238914	NW_004515651.1	Scaffold29	238914	CC	TT	1946914797
SNP_P4_110940_238929	NW_004515651.1	Scaffold29	238929	TT	CC	1946914799
SNP_P4_110941_239027	NW_004515651.1	Scaffold29	239027	TT	GG	1946914801
SNP_P4_110942_239179	NW_004515651.1	Scaffold29	239179	AA	TT	1946914803
SNP_P4_110943_241648	NW_004515651.1	Scaffold29	241648	GG	TT	1946914805
SNP_P4_110944_242097	NW_004515651.1	Scaffold29	242097	TT	AA	1946914807
SNP_P4_110945_242267	NW_004515651.1	Scaffold29	242267	TT	AA	1946914809
SNP_P4_110946_242312	NW_004515651.1	Scaffold29	242312	AA	CC	1946914811
SNP_P4_110947_242313	NW_004515651.1	Scaffold29	242313	CC	GG	1946914813
SNP_P4_110948_242375	NW_004515651.1	Scaffold29	242375	AA	TT	1946914815
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SNP_P4_110950_242405	NW_004515651.1	Scaffold29	242405	AA	TT	1946914819
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SNP_P4_110952_448	NW_004515652.1	Scaffold30	448	TT	CC	1946914823
SNP_P4_110953_547	NW_004515652.1	Scaffold30	547	CC	TT	1946914825
SNP_P4_110954_1513	NW_004515652.1	Scaffold30	1513	AA	GG	1946914827
SNP_P4_110955_1552	NW_004515652.1	Scaffold30	1552	TT	CC	1946914829
SNP_P4_110956_1564	NW_004515652.1	Scaffold30	1564	AA	TT	1946914831
SNP_P4_110957_1590	NW_004515652.1	Scaffold30	1590	AA	GG	1946914833
SNP_P4_110958_1600	NW_004515652.1	Scaffold30	1600	TT	CC	1946914836
SNP_P4_110959_1828	NW_004515652.1	Scaffold30	1828	TT	CC	1946914838
SNP_P4_110960_1873	NW_004515652.1	Scaffold30	1873	TT	CC	1946914840
SNP_P4_110961_1891	NW_004515652.1	Scaffold30	1891	TT	CC	1946914842
SNP_P4_110962_1908	NW_004515652.1	Scaffold30	1908	AA	GG	1946914844
SNP_P4_110963_1912	NW_004515652.1	Scaffold30	1912	GG	AA	1946914846
SNP_P4_110964_1921	NW_004515652.1	Scaffold30	1921	AA	CC	1946914848
SNP_P4_110965_1936	NW_004515652.1	Scaffold30	1936	TT	CC	1946914850
SNP_P4_110966_1944	NW_004515652.1	Scaffold30	1944	TT	GG	1946914852
SNP_P4_110967_1946	NW_004515652.1	Scaffold30	1946	GG	AA	1946914854
SNP_P4_110968_1957	NW_004515652.1	Scaffold30	1957	CC	TT	1946914856
SNP_P4_110969_1958	NW_004515652.1	Scaffold30	1958	CC	TT	1946914858
SNP_P4_110970_1984	NW_004515652.1	Scaffold30	1984	TT	CC	1946914860
SNP_P4_110971_1992	NW_004515652.1	Scaffold30	1992	TT	CC	1946914862
SNP_P4_110972_2001	NW_004515652.1	Scaffold30	2001	AA	CC	1946914864
SNP_P4_110973_2002	NW_004515652.1	Scaffold30	2002	TT	CC	1946914866
SNP_P4_110974_2004	NW_004515652.1	Scaffold30	2004	GG	CC	1946914868
SNP_P4_110975_2032	NW_004515652.1	Scaffold30	2032	CC	TT	1946914870
SNP_P4_110976_2041	NW_004515652.1	Scaffold30	2041	GG	AA	1946914872
SNP_P4_110977_2050	NW_004515652.1	Scaffold30	2050	TT	CC	1946914874

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_110979_2064	NW_004515652.1	Scaffold30	2064	TT	CC	1946914878
SNP_P4_110980_2071	NW_004515652.1	Scaffold30	2071	TT	CC	1946914880
SNP_P4_110981_12708	NW_004515652.1	Scaffold30	12708	CC	TT	1946914882
SNP_P4_110982_12717	NW_004515652.1	Scaffold30	12717	GG	AA	1946914884
SNP_P4_110983_13617	NW_004515652.1	Scaffold30	13617	AA	CC	1946914886
SNP_P4_110984_23863	NW_004515652.1	Scaffold30	23863	GG	AA	1946914888
SNP_P4_110985_23881	NW_004515652.1	Scaffold30	23881	GG	AA	1946914890
SNP_P4_110986_44452	NW_004515652.1	Scaffold30	44452	CC	AA	1946914892
SNP_P4_110987_44455	NW_004515652.1	Scaffold30	44455	AA	GG	1946914894
SNP_P4_110988_66115	NW_004515652.1	Scaffold30	66115	GG	AA	1946914896
SNP_P4_110989_66118	NW_004515652.1	Scaffold30	66118	AA	GG	1946914898
SNP_P4_110990_67121	NW_004515652.1	Scaffold30	67121	AA	TT	1946914900
SNP_P4_110991_67137	NW_004515652.1	Scaffold30	67137	TT	GG	1946914901
SNP_P4_110992_67147	NW_004515652.1	Scaffold30	67147	TT	CC	1946914902
SNP_P4_110993_67149	NW_004515652.1	Scaffold30	67149	TT	AA	1946914903
SNP_P4_110994_78298	NW_004515652.1	Scaffold30	78298	CC	GG	1946914904
SNP_P4_110995_78359	NW_004515652.1	Scaffold30	78359	AA	CC	1946914905
SNP_P4_110996_78645	NW_004515652.1	Scaffold30	78645	AA	TT	1946914906
SNP_P4_110997_78673	NW_004515652.1	Scaffold30	78673	TT	AA	1946914907
SNP_P4_110998_78743	NW_004515652.1	Scaffold30	78743	TT	CC	1946914908
SNP_P4_110999_78783	NW_004515652.1	Scaffold30	78783	AA	CC	1946914910
SNP_P4_111000_78800	NW_004515652.1	Scaffold30	78800	CC	AA	1946914912
SNP_P4_111001_78992	NW_004515652.1	Scaffold30	78992	TT	CC	1946914914
SNP_P4_111002_84690	NW_004515652.1	Scaffold30	84690	TT	AA	1946914916
SNP_P4_111003_84702	NW_004515652.1	Scaffold30	84702	TT	AA	1946914918
SNP_P4_111004_84709	NW_004515652.1	Scaffold30	84709	AA	GG	1946914920
SNP_P4_111005_84735	NW_004515652.1	Scaffold30	84735	CC	TT	1946914922
SNP_P4_111006_85346	NW_004515652.1	Scaffold30	85346	AA	GG	1946914924
SNP_P4_111007_85661	NW_004515652.1	Scaffold30	85661	TT	AA	1946914926
SNP_P4_111008_85753	NW_004515652.1	Scaffold30	85753	CC	AA	1946914928
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SNP_P4_111010_86098	NW_004515652.1	Scaffold30	86098	GG	CC	1946914932
SNP_P4_111011_86108	NW_004515652.1	Scaffold30	86108	GG	CC	1946914934
SNP_P4_111012_87337	NW_004515652.1	Scaffold30	87337	AA	TT	1946914937
SNP_P4_111013_91886	NW_004515652.1	Scaffold30	91886	CC	TT	1946914939
SNP_P4_111014_93183	NW_004515652.1	Scaffold30	93183	AA	GG	1946914941
SNP_P4_111015_93185	NW_004515652.1	Scaffold30	93185	CC	AA	1946914943
SNP_P4_111016_97646	NW_004515652.1	Scaffold30	97646	CC	TT	1946914945
SNP_P4_111017_98379	NW_004515652.1	Scaffold30	98379	TT	AA	1946914947
SNP_P4_111018_98723	NW_004515652.1	Scaffold30	98723	CC	AA	1946914949
SNP_P4_111019_98755	NW_004515652.1	Scaffold30	98755	AA	CC	1946914951

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_111021_99021	NW_004515652.1	Scaffold30	99021	CC	AA	1946914955
SNP_P4_111022_101820	NW_004515652.1	Scaffold30	101820	AA	TT	1946914957
SNP_P4_111023_104790	NW_004515652.1	Scaffold30	104790	GG	TT	1946914959
SNP_P4_111024_105568	NW_004515652.1	Scaffold30	105568	TT	AA	1946914961
SNP_P4_111025_105913	NW_004515652.1	Scaffold30	105913	GG	CC	1946914963
SNP_P4_111026_105926	NW_004515652.1	Scaffold30	105926	GG	CC	1946914965
SNP_P4_111028_121885	NW_004515652.1	Scaffold30	121885	TT	CC	1946914967
SNP_P4_111029_123870	NW_004515652.1	Scaffold30	123870	GG	CC	1946914969
SNP_P4_111030_127160	NW_004515652.1	Scaffold30	127160	GG	TT	1946914971
SNP_P4_111031_131068	NW_004515652.1	Scaffold30	131068	CC	AA	1946914974
SNP_P4_111032_131071	NW_004515652.1	Scaffold30	131071	CC	AA	1946914976
SNP_P4_111033_131072	NW_004515652.1	Scaffold30	131072	CC	TT	1946914978
SNP_P4_111034_135172	NW_004515652.1	Scaffold30	135172	GG	CC	1946914980
SNP_P4_111035_135829	NW_004515652.1	Scaffold30	135829	GG	AA	1946914982
SNP_P4_111036_136523	NW_004515652.1	Scaffold30	136523	AA	CC	1946914984
SNP_P4_111037_136543	NW_004515652.1	Scaffold30	136543	AA	TT	1946914986
SNP_P4_111038_136549	NW_004515652.1	Scaffold30	136549	GG	AA	1946914988
SNP_P4_111039_136755	NW_004515652.1	Scaffold30	136755	AA	TT	1946914990
SNP_P4_111040_136757	NW_004515652.1	Scaffold30	136757	TT	GG	1946914992
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SNP_P4_111042_6380	NW_004515653.1	Scaffold36	6380	TT	AA	1946914996
SNP_P4_111043_9017	NW_004515653.1	Scaffold36	9017	AA	GG	1946914998
SNP_P4_111044_12321	NW_004515653.1	Scaffold36	12321	AA	GG	1946915000
SNP_P4_111045_22007	NW_004515653.1	Scaffold36	22007	GG	TT	1946915002
SNP_P4_111046_22008	NW_004515653.1	Scaffold36	22008	GG	TT	1946915004
SNP_P4_111047_22016	NW_004515653.1	Scaffold36	22016	CC	TT	1946915006
SNP_P4_111048_24955	NW_004515653.1	Scaffold36	24955	CC	AA	1946915008
SNP_P4_111049_41979	NW_004515653.1	Scaffold36	41979	TT	CC	1946915010
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SNP_P4_111054_119326	NW_004515653.1	Scaffold36	119326	CC	TT	1946915014
SNP_P4_111055_130103	NW_004515653.1	Scaffold36	130103	GG	AA	1946915016
SNP_P4_111056_131660	NW_004515653.1	Scaffold36	131660	TT	CC	1946915018
SNP_P4_111057_131719	NW_004515653.1	Scaffold36	131719	TT	CC	1946915020
SNP_P4_111058_131738	NW_004515653.1	Scaffold36	131738	CC	AA	1946915022
SNP_P4_111059_149413	NW_004515653.1	Scaffold36	149413	TT	AA	1946915024
SNP_P4_111060_158827	NW_004515653.1	Scaffold36	158827	GG	AA	1946915026
SNP_P4_111062_187893	NW_004515653.1	Scaffold36	187893	AA	GG	1946915028
SNP_P4_111063_200994	NW_004515653.1	Scaffold36	200994	CC	AA	1946915030
SNP_P4_111064_201474	NW_004515653.1	Scaffold36	201474	AA	CC	1946915032
SNP_P4_111065_203797	NW_004515653.1	Scaffold36	203797	AA	GG	1946915034
SNP_P4_111066_209556	NW_004515653.1	Scaffold36	209556	GG	TT	1946915036

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_111069_209805	NW_004515653.1	Scaffold36	209805	GG	AA	1946915040
SNP_P4_111070_210204	NW_004515653.1	Scaffold36	210204	GG	AA	1946915042
SNP_P4_111071_210338	NW_004515653.1	Scaffold36	210338	AA	CC	1946915044
SNP_P4_111072_210674	NW_004515653.1	Scaffold36	210674	AA	TT	1946915046
SNP_P4_111073_210683	NW_004515653.1	Scaffold36	210683	TT	GG	1946915048
SNP_P4_111074_214985	NW_004515653.1	Scaffold36	214985	AA	TT	1946915050
SNP_P4_111075_214992	NW_004515653.1	Scaffold36	214992	TT	GG	1946915052
SNP_P4_111076_215031	NW_004515653.1	Scaffold36	215031	CC	GG	1946915054
SNP_P4_111077_215040	NW_004515653.1	Scaffold36	215040	AA	TT	1946915056
SNP_P4_111078_215050	NW_004515653.1	Scaffold36	215050	CC	AA	1946915058
SNP_P4_111079_215062	NW_004515653.1	Scaffold36	215062	AA	TT	1946915060
SNP_P4_111080_215071	NW_004515653.1	Scaffold36	215071	TT	CC	1946915062
SNP_P4_111081_215382	NW_004515653.1	Scaffold36	215382	CC	GG	1946915064
SNP_P4_111082_215421	NW_004515653.1	Scaffold36	215421	CC	TT	1946915066
SNP_P4_111083_221196	NW_004515653.1	Scaffold36	221196	AA	GG	1946915068
SNP_P4_111084_221866	NW_004515653.1	Scaffold36	221866	AA	GG	1946915070
SNP_P4_111085_221882	NW_004515653.1	Scaffold36	221882	CC	AA	1946915072
SNP_P4_111086_221894	NW_004515653.1	Scaffold36	221894	CC	TT	1946915074
SNP_P4_111087_221902	NW_004515653.1	Scaffold36	221902	GG	AA	1946915076
SNP_P4_111088_221916	NW_004515653.1	Scaffold36	221916	TT	CC	1946915078
SNP_P4_111089_221929	NW_004515653.1	Scaffold36	221929	TT	CC	1946915080
SNP_P4_111090_221944	NW_004515653.1	Scaffold36	221944	GG	TT	1946915082
SNP_P4_111091_221952	NW_004515653.1	Scaffold36	221952	GG	AA	1946915084
SNP_P4_111092_221965	NW_004515653.1	Scaffold36	221965	GG	AA	1946915086
SNP_P4_111093_221966	NW_004515653.1	Scaffold36	221966	GG	AA	1946915088
SNP_P4_111094_221999	NW_004515653.1	Scaffold36	221999	AA	CC	1946915090
SNP_P4_111095_222030	NW_004515653.1	Scaffold36	222030	GG	CC	1946915092
SNP_P4_111096_222063	NW_004515653.1	Scaffold36	222063	GG	TT	1946915094
SNP_P4_111097_222067	NW_004515653.1	Scaffold36	222067	TT	GG	1946915096
SNP_P4_111098_222139	NW_004515653.1	Scaffold36	222139	TT	CC	1946915098
SNP_P4_111099_222164	NW_004515653.1	Scaffold36	222164	TT	GG	1946915100
SNP_P4_111100_222327	NW_004515653.1	Scaffold36	222327	CC	GG	1946915102
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SNP_P4_111102_222396	NW_004515653.1	Scaffold36	222396	GG	CC	1946915106
SNP_P4_111103_222621	NW_004515653.1	Scaffold36	222621	CC	TT	1946915108
SNP_P4_111104_227685	NW_004515653.1	Scaffold36	227685	TT	CC	1946915110
SNP_P4_111105_227924	NW_004515653.1	Scaffold36	227924	AA	CC	1946915112
SNP_P4_111106_228037	NW_004515653.1	Scaffold36	228037	AA	GG	1946915114
SNP_P4_111107_228180	NW_004515653.1	Scaffold36	228180	AA	GG	1946915116
SNP_P4_111109_236702	NW_004515653.1	Scaffold36	236702	TT	AA	1946915118
SNP_P4_111110_236812	NW_004515653.1	Scaffold36	236812	AA	CC	1946915120

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_111112_236827	NW_004515653.1	Scaffold36	236827	GG	AA	1946915124
SNP_P4_111113_236898	NW_004515653.1	Scaffold36	236898	AA	TT	1946915126
SNP_P4_111114_241456	NW_004515653.1	Scaffold36	241456	AA	CC	1946915128
SNP_P4_111115_241536	NW_004515653.1	Scaffold36	241536	TT	AA	1946915130
SNP_P4_111116_245024	NW_004515653.1	Scaffold36	245024	AA	GG	1946915132
SNP_P4_111117_261237	NW_004515653.1	Scaffold36	261237	AA	TT	1946915134
SNP_P4_111118_261238	NW_004515653.1	Scaffold36	261238	GG	TT	1946915136
SNP_P4_111119_261239	NW_004515653.1	Scaffold36	261239	TT	GG	1946915138
SNP_P4_111120_267064	NW_004515653.1	Scaffold36	267064	TT	CC	1946915140
SNP_P4_111121_281733	NW_004515653.1	Scaffold36	281733	CC	TT	1946915142
SNP_P4_111124_308013	NW_004515653.1	Scaffold36	308013	GG	TT	1946915144
SNP_P4_111125_308369	NW_004515653.1	Scaffold36	308369	AA	CC	1946915146
SNP_P4_111126_308583	NW_004515653.1	Scaffold36	308583	TT	CC	1946915149
SNP_P4_111127_308628	NW_004515653.1	Scaffold36	308628	CC	TT	1946915151
SNP_P4_111128_316718	NW_004515653.1	Scaffold36	316718	TT	CC	1946915153
SNP_P4_111129_316740	NW_004515653.1	Scaffold36	316740	AA	TT	1946915155
SNP_P4_111130_317272	NW_004515653.1	Scaffold36	317272	AA	GG	1946915157
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SNP_P4_111137_330694	NW_004515653.1	Scaffold36	330694	GG	AA	1946915169
SNP_P4_111138_336215	NW_004515653.1	Scaffold36	336215	GG	TT	1946915171
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SNP_P4_111140_419	NW_004515654.1	Scaffold37	419	AA	GG	1946915175
SNP_P4_111141_477	NW_004515654.1	Scaffold37	477	CC	TT	1946915177
SNP_P4_111142_1069	NW_004515654.1	Scaffold37	1069	AA	TT	1946915180
SNP_P4_111143_1081	NW_004515654.1	Scaffold37	1081	AA	TT	1946915182
SNP_P4_111144_5910	NW_004515654.1	Scaffold37	5910	TT	AA	1946915184
SNP_P4_111145_5926	NW_004515654.1	Scaffold37	5926	AA	TT	1946915186
SNP_P4_111146_6062	NW_004515654.1	Scaffold37	6062	GG	TT	1946915188
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SNP_P4_111149_15104	NW_004515654.1	Scaffold37	15104	AA	GG	1946915194
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SNP_P4_111152_15355	NW_004515654.1	Scaffold37	15355	AA	TT	1946915200
SNP_P4_111153_15357	NW_004515654.1	Scaffold37	15357	AA	CC	1946915202
SNP_P4_111154_15363	NW_004515654.1	Scaffold37	15363	TT	CC	1946915204
SNP_P4_111155_15394	NW_004515654.1	Scaffold37	15394	TT	CC	1946915206

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_111158_15446	NW_004515654.1	Scaffold37	15446	TT	CC	1946915212
SNP_P4_111159_22324	NW_004515654.1	Scaffold37	22324	GG	AA	1946915215
SNP_P4_111160_22365	NW_004515654.1	Scaffold37	22365	AA	GG	1946915217
SNP_P4_111161_22749	NW_004515654.1	Scaffold37	22749	TT	CC	1946915219
SNP_P4_111162_25744	NW_004515654.1	Scaffold37	25744	AA	GG	1946915221
SNP_P4_111163_25751	NW_004515654.1	Scaffold37	25751	AA	GG	1946915223
SNP_P4_111164_26609	NW_004515654.1	Scaffold37	26609	GG	AA	1946915225
SNP_P4_111165_26651	NW_004515654.1	Scaffold37	26651	GG	TT	1946915227
SNP_P4_111166_28362	NW_004515654.1	Scaffold37	28362	GG	AA	1946915229
SNP_P4_111167_28398	NW_004515654.1	Scaffold37	28398	AA	CC	1946915231
SNP_P4_111168_28483	NW_004515654.1	Scaffold37	28483	TT	AA	1946915233
SNP_P4_111169_28520	NW_004515654.1	Scaffold37	28520	TT	AA	1946915235
SNP_P4_111170_36820	NW_004515654.1	Scaffold37	36820	CC	TT	1946915237
SNP_P4_111171_37820	NW_004515654.1	Scaffold37	37820	AA	TT	1946915239
SNP_P4_111172_40031	NW_004515654.1	Scaffold37	40031	AA	CC	1946915241
SNP_P4_111173_40039	NW_004515654.1	Scaffold37	40039	GG	TT	1946915243
SNP_P4_111174_40046	NW_004515654.1	Scaffold37	40046	AA	CC	1946915245
SNP_P4_111175_42352	NW_004515654.1	Scaffold37	42352	GG	CC	1946915247
SNP_P4_111176_59082	NW_004515654.1	Scaffold37	59082	TT	AA	1946915249
SNP_P4_111177_75764	NW_004515654.1	Scaffold37	75764	GG	TT	1946915251
SNP_P4_111178_75859	NW_004515654.1	Scaffold37	75859	CC	AA	1946915253
SNP_P4_111179_82807	NW_004515654.1	Scaffold37	82807	TT	AA	1946915255
SNP_P4_111180_88458	NW_004515654.1	Scaffold37	88458	AA	CC	1946915257
SNP_P4_111181_88515	NW_004515654.1	Scaffold37	88515	TT	GG	1946915259
SNP_P4_111182_88601	NW_004515654.1	Scaffold37	88601	TT	CC	1946915261
SNP_P4_111183_88952	NW_004515654.1	Scaffold37	88952	TT	AA	1946915263
SNP_P4_111184_120687	NW_004515654.1	Scaffold37	120687	TT	CC	1946915265
SNP_P4_111185_125367	NW_004515654.1	Scaffold37	125367	AA	GG	1946915267
SNP_P4_111186_126219	NW_004515654.1	Scaffold37	126219	AA	TT	1946915269
SNP_P4_111187_126290	NW_004515654.1	Scaffold37	126290	CC	GG	1946915271
SNP_P4_111188_126376	NW_004515654.1	Scaffold37	126376	AA	CC	1946915273
SNP_P4_111189_126381	NW_004515654.1	Scaffold37	126381	CC	GG	1946915275
SNP_P4_111190_133945	NW_004515654.1	Scaffold37	133945	TT	GG	1946915277
SNP_P4_111191_134258	NW_004515654.1	Scaffold37	134258	AA	GG	1946915279
SNP_P4_111192_134284	NW_004515654.1	Scaffold37	134284	AA	CC	1946915281
SNP_P4_111193_134470	NW_004515654.1	Scaffold37	134470	GG	TT	1946915283
SNP_P4_111194_134538	NW_004515654.1	Scaffold37	134538	AA	GG	1946915285
SNP_P4_111195_134546	NW_004515654.1	Scaffold37	134546	CC	TT	1946915287
SNP_P4_111196_134585	NW_004515654.1	Scaffold37	134585	TT	CC	1946915289
SNP_P4_111197_134653	NW_004515654.1	Scaffold37	134653	AA	GG	1946915291

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_111200_134711	NW_004515654.1	Scaffold37	134711	GG	AA	1946915297
SNP_P4_111201_134982	NW_004515654.1	Scaffold37	134982	TT	CC	1946915299
SNP_P4_111202_135579	NW_004515654.1	Scaffold37	135579	AA	TT	1946915301
SNP_P4_111203_136006	NW_004515654.1	Scaffold37	136006	AA	GG	1946915303
SNP_P4_111204_136008	NW_004515654.1	Scaffold37	136008	GG	AA	1946915306
SNP_P4_111205_136012	NW_004515654.1	Scaffold37	136012	CC	TT	1946915308
SNP_P4_111206_136199	NW_004515654.1	Scaffold37	136199	AA	GG	1946915310
SNP_P4_111207_136298	NW_004515654.1	Scaffold37	136298	TT	GG	1946915312
SNP_P4_111208_136404	NW_004515654.1	Scaffold37	136404	AA	GG	1946915314
SNP_P4_111209_136719	NW_004515654.1	Scaffold37	136719	AA	GG	1946915316
SNP_P4_111210_136770	NW_004515654.1	Scaffold37	136770	TT	GG	1946915318
SNP_P4_111211_136785	NW_004515654.1	Scaffold37	136785	TT	CC	1946915320
SNP_P4_111212_136787	NW_004515654.1	Scaffold37	136787	GG	TT	1946915322
SNP_P4_111213_136803	NW_004515654.1	Scaffold37	136803	GG	TT	1946915324
SNP_P4_111214_136814	NW_004515654.1	Scaffold37	136814	AA	GG	1946915326
SNP_P4_111215_140595	NW_004515654.1	Scaffold37	140595	TT	CC	1946915328
SNP_P4_111216_161672	NW_004515654.1	Scaffold37	161672	TT	CC	1946915330
SNP_P4_111217_2444	NW_004515655.1	Scaffold38	2444	TT	GG	1946915332
SNP_P4_111219_4803	NW_004515655.1	Scaffold38	4803	GG	CC	1946915334
SNP_P4_111220_8061	NW_004515655.1	Scaffold38	8061	GG	TT	1946915336
SNP_P4_111221_8137	NW_004515655.1	Scaffold38	8137	CC	AA	1946915338
SNP_P4_111222_9834	NW_004515655.1	Scaffold38	9834	TT	CC	1946915340
SNP_P4_111223_9897	NW_004515655.1	Scaffold38	9897	TT	CC	1946915342
SNP_P4_111224_10588	NW_004515655.1	Scaffold38	10588	TT	CC	1946915345
SNP_P4_111225_18728	NW_004515655.1	Scaffold38	18728	GG	AA	1946915347
SNP_P4_111226_20923	NW_004515655.1	Scaffold38	20923	CC	TT	1946915349
SNP_P4_111227_29671	NW_004515655.1	Scaffold38	29671	GG	AA	1946915351
SNP_P4_111228_32841	NW_004515655.1	Scaffold38	32841	AA	TT	1946915353
SNP_P4_111229_55103	NW_004515655.1	Scaffold38	55103	GG	AA	1946915355
SNP_P4_111230_55137	NW_004515655.1	Scaffold38	55137	AA	GG	1946915357
SNP_P4_111231_56037	NW_004515655.1	Scaffold38	56037	GG	AA	1946915359
SNP_P4_111232_58743	NW_004515655.1	Scaffold38	58743	AA	TT	1946915361
SNP_P4_111233_59679	NW_004515655.1	Scaffold38	59679	TT	GG	1946915363
SNP_P4_111234_62821	NW_004515655.1	Scaffold38	62821	TT	CC	1946915365
SNP_P4_111235_65884	NW_004515655.1	Scaffold38	65884	GG	TT	1946915367
SNP_P4_111236_67367	NW_004515655.1	Scaffold38	67367	CC	TT	1946915369
SNP_P4_111237_68786	NW_004515655.1	Scaffold38	68786	TT	CC	1946915371
SNP_P4_111238_69917	NW_004515655.1	Scaffold38	69917	AA	TT	1946915373
SNP_P4_111239_70341	NW_004515655.1	Scaffold38	70341	GG	AA	1946915375
SNP_P4_111240_70342	NW_004515655.1	Scaffold38	70342	TT	AA	1946915377

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_111243_73796	NW_004515655.1	Scaffold38	73796	AA	CC	1946915381
SNP_P4_111244_74213	NW_004515655.1	Scaffold38	74213	AA	GG	1946915383
SNP_P4_111245_74685	NW_004515655.1	Scaffold38	74685	CC	TT	1946915385
SNP_P4_111246_78095	NW_004515655.1	Scaffold38	78095	CC	AA	1946915387
SNP_P4_111247_78113	NW_004515655.1	Scaffold38	78113	CC	TT	1946915389
SNP_P4_111248_78433	NW_004515655.1	Scaffold38	78433	GG	TT	1946915391
SNP_P4_111249_78457	NW_004515655.1	Scaffold38	78457	TT	CC	1946915393
SNP_P4_111250_78490	NW_004515655.1	Scaffold38	78490	CC	TT	1946915395
SNP_P4_111251_80634	NW_004515655.1	Scaffold38	80634	TT	GG	1946915397
SNP_P4_111252_83970	NW_004515655.1	Scaffold38	83970	CC	TT	1946915399
SNP_P4_111253_84142	NW_004515655.1	Scaffold38	84142	AA	GG	1946915401
SNP_P4_111254_84562	NW_004515655.1	Scaffold38	84562	CC	TT	1946915403
SNP_P4_111255_98598	NW_004515655.1	Scaffold38	98598	TT	CC	1946915405
SNP_P4_111256_98701	NW_004515655.1	Scaffold38	98701	GG	AA	1946915407
SNP_P4_111257_99094	NW_004515655.1	Scaffold38	99094	GG	TT	1946915409
SNP_P4_111258_110913	NW_004515655.1	Scaffold38	110913	GG	TT	1946915411
SNP_P4_111259_110937	NW_004515655.1	Scaffold38	110937	AA	GG	1946915413
SNP_P4_111260_115714	NW_004515655.1	Scaffold38	115714	CC	TT	1946915415
SNP_P4_111261_119995	NW_004515655.1	Scaffold38	119995	CC	TT	1946915417
SNP_P4_111262_120000	NW_004515655.1	Scaffold38	120000	TT	CC	1946915419
SNP_P4_111263_120813	NW_004515655.1	Scaffold38	120813	GG	TT	1946915421
SNP_P4_111264_133001	NW_004515655.1	Scaffold38	133001	CC	TT	1946915423
SNP_P4_111265_133114	NW_004515655.1	Scaffold38	133114	AA	GG	1946915425
SNP_P4_111266_133426	NW_004515655.1	Scaffold38	133426	AA	GG	1946915427
SNP_P4_111267_133628	NW_004515655.1	Scaffold38	133628	AA	GG	1946915429
SNP_P4_111268_133644	NW_004515655.1	Scaffold38	133644	TT	CC	1946915431
SNP_P4_111270_137550	NW_004515655.1	Scaffold38	137550	AA	GG	1946915433
SNP_P4_111271_138371	NW_004515655.1	Scaffold38	138371	TT	AA	1946915435
SNP_P4_111272_141153	NW_004515655.1	Scaffold38	141153	TT	CC	1946915437
SNP_P4_111273_141484	NW_004515655.1	Scaffold38	141484	AA	GG	1946915439
SNP_P4_111274_141530	NW_004515655.1	Scaffold38	141530	GG	AA	1946915441
SNP_P4_111275_141615	NW_004515655.1	Scaffold38	141615	AA	TT	1946915443
SNP_P4_111276_147459	NW_004515655.1	Scaffold38	147459	CC	GG	1946915445
SNP_P4_111277_147762	NW_004515655.1	Scaffold38	147762	AA	GG	1946915447
SNP_P4_111278_160563	NW_004515655.1	Scaffold38	160563	CC	TT	1946915449
SNP_P4_111279_173852	NW_004515655.1	Scaffold38	173852	AA	GG	1946915451
SNP_P4_111280_179417	NW_004515655.1	Scaffold38	179417	CC	TT	1946915453
SNP_P4_111281_181689	NW_004515655.1	Scaffold38	181689	CC	TT	1946915455
SNP_P4_111282_186576	NW_004515655.1	Scaffold38	186576	CC	AA	1946915457
SNP_P4_111283_188761	NW_004515655.1	Scaffold38	188761	GG	AA	1946915459
SNP_P4_111284_190013	NW_004515655.1	Scaffold38	190013	GG	AA	1946915461

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_111287_213156	NW_004515655.1	Scaffold38	213156	AA	GG	1946915465
SNP_P4_111288_216037	NW_004515655.1	Scaffold38	216037	TT	CC	1946915467
SNP_P4_111289_216196	NW_004515655.1	Scaffold38	216196	TT	CC	1946915470
SNP_P4_111290_221235	NW_004515655.1	Scaffold38	221235	TT	CC	1946915472
SNP_P4_111291_233823	NW_004515655.1	Scaffold38	233823	TT	CC	1946915474
SNP_P4_111292_234582	NW_004515655.1	Scaffold38	234582	GG	AA	1946915476
SNP_P4_111293_235124	NW_004515655.1	Scaffold38	235124	AA	GG	1946915478
SNP_P4_111294_237340	NW_004515655.1	Scaffold38	237340	TT	CC	1946915480
SNP_P4_111295_237675	NW_004515655.1	Scaffold38	237675	GG	AA	1946915482
SNP_P4_111297_238450	NW_004515655.1	Scaffold38	238450	TT	CC	1946915484
SNP_P4_111298_238475	NW_004515655.1	Scaffold38	238475	AA	TT	1946915486
SNP_P4_111299_238479	NW_004515655.1	Scaffold38	238479	GG	AA	1946915488
SNP_P4_111300_238635	NW_004515655.1	Scaffold38	238635	TT	AA	1946915490
SNP_P4_111301_238661	NW_004515655.1	Scaffold38	238661	GG	AA	1946915492
SNP_P4_111303_241209	NW_004515655.1	Scaffold38	241209	AA	GG	1946915494
SNP_P4_111304_245857	NW_004515655.1	Scaffold38	245857	CC	TT	1946915496
SNP_P4_111306_248686	NW_004515655.1	Scaffold38	248686	TT	CC	1946915498
SNP_P4_111307_252156	NW_004515655.1	Scaffold38	252156	AA	TT	1946915500
SNP_P4_111308_252174	NW_004515655.1	Scaffold38	252174	AA	TT	1946915502
SNP_P4_111309_252175	NW_004515655.1	Scaffold38	252175	CC	AA	1946915504
SNP_P4_111310_252178	NW_004515655.1	Scaffold38	252178	AA	GG	1946915506
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SNP_P4_111312_252212	NW_004515655.1	Scaffold38	252212	GG	AA	1946915510
SNP_P4_111313_252215	NW_004515655.1	Scaffold38	252215	GG	AA	1946915512
SNP_P4_111314_252248	NW_004515655.1	Scaffold38	252248	CC	TT	1946915514
SNP_P4_111315_252320	NW_004515655.1	Scaffold38	252320	CC	AA	1946915516
SNP_P4_111317_252360	NW_004515655.1	Scaffold38	252360	AA	GG	1946915518
SNP_P4_111318_252370	NW_004515655.1	Scaffold38	252370	CC	TT	1946915520
SNP_P4_111319_252381	NW_004515655.1	Scaffold38	252381	TT	CC	1946915522
SNP_P4_111320_253476	NW_004515655.1	Scaffold38	253476	GG	CC	1946915524
SNP_P4_111321_255548	NW_004515655.1	Scaffold38	255548	GG	AA	1946915526
SNP_P4_111322_261124	NW_004515655.1	Scaffold38	261124	TT	AA	1946915528
SNP_P4_111323_263159	NW_004515655.1	Scaffold38	263159	CC	AA	1946915530
SNP_P4_111324_263520	NW_004515655.1	Scaffold38	263520	CC	AA	1946915532
SNP_P4_111325_263659	NW_004515655.1	Scaffold38	263659	GG	TT	1946915534
SNP_P4_111326_264346	NW_004515655.1	Scaffold38	264346	TT	AA	1946915536
SNP_P4_111327_264379	NW_004515655.1	Scaffold38	264379	AA	CC	1946915538
SNP_P4_111328_265895	NW_004515655.1	Scaffold38	265895	CC	TT	1946915540
SNP_P4_111330_269915	NW_004515655.1	Scaffold38	269915	GG	AA	1946915542
SNP_P4_111331_270805	NW_004515655.1	Scaffold38	270805	CC	TT	1946915544
SNP_P4_111332_274726	NW_004515655.1	Scaffold38	274726	GG	TT	1946915546

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_111335_281950	NW_004515655.1	Scaffold38	281950	GG	TT	1946915550
SNP_P4_111336_288296	NW_004515655.1	Scaffold38	288296	GG	AA	1946915552
SNP_P4_111337_289728	NW_004515655.1	Scaffold38	289728	AA	GG	1946915554
SNP_P4_111338_290071	NW_004515655.1	Scaffold38	290071	TT	CC	1946915556
SNP_P4_111339_290146	NW_004515655.1	Scaffold38	290146	TT	CC	1946915558
SNP_P4_111340_291155	NW_004515655.1	Scaffold38	291155	CC	TT	1946915560
SNP_P4_111341_293251	NW_004515655.1	Scaffold38	293251	GG	AA	1946915562
SNP_P4_111342_294694	NW_004515655.1	Scaffold38	294694	GG	CC	1946915564
SNP_P4_111343_295384	NW_004515655.1	Scaffold38	295384	CC	TT	1946915566
SNP_P4_111344_318278	NW_004515655.1	Scaffold38	318278	GG	TT	1946915568
SNP_P4_111347_331968	NW_004515655.1	Scaffold38	331968	CC	AA	1946915570
SNP_P4_111348_334208	NW_004515655.1	Scaffold38	334208	GG	AA	1946915572
SNP_P4_111349_334283	NW_004515655.1	Scaffold38	334283	TT	CC	1946915574
SNP_P4_111350_335400	NW_004515655.1	Scaffold38	335400	AA	GG	1946915576
SNP_P4_111352_335663	NW_004515655.1	Scaffold38	335663	CC	TT	1946915578
SNP_P4_111353_345530	NW_004515655.1	Scaffold38	345530	GG	AA	1946915580
SNP_P4_111357_361233	NW_004515655.1	Scaffold38	361233	GG	AA	1946915582
SNP_P4_111358_376208	NW_004515655.1	Scaffold38	376208	TT	AA	1946915584
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SNP_P4_111365_385685	NW_004515655.1	Scaffold38	385685	AA	GG	1946915594
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SNP_P4_111369_393976	NW_004515655.1	Scaffold38	393976	GG	TT	1946915599
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SNP_P4_111374_406507	NW_004515655.1	Scaffold38	406507	AA	CC	1946915609
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SNP_P4_111376_406525	NW_004515655.1	Scaffold38	406525	AA	CC	1946915613
SNP_P4_111377_407273	NW_004515655.1	Scaffold38	407273	CC	GG	1946915615
SNP_P4_111378_408454	NW_004515655.1	Scaffold38	408454	CC	AA	1946915617
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SNP_P4_111380_409030	NW_004515655.1	Scaffold38	409030	CC	TT	1946915621
SNP_P4_111381_411922	NW_004515655.1	Scaffold38	411922	AA	GG	1946915623
SNP_P4_111382_411941	NW_004515655.1	Scaffold38	411941	TT	CC	1946915625
SNP_P4_111383_412789	NW_004515655.1	Scaffold38	412789	AA	TT	1946915627
SNP_P4_111384_413554	NW_004515655.1	Scaffold38	413554	TT	CC	1946915629
SNP_P4_111385_413627	NW_004515655.1	Scaffold38	413627	AA	GG	1946915631

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_111387_413713	NW_004515655.1	Scaffold38	413713	CC	AA	1946915635
SNP_P4_111388_413719	NW_004515655.1	Scaffold38	413719	AA	GG	1946915637
SNP_P4_111389_413785	NW_004515655.1	Scaffold38	413785	GG	AA	1946915640
SNP_P4_111391_413837	NW_004515655.1	Scaffold38	413837	TT	CC	1946915642
SNP_P4_111392_414086	NW_004515655.1	Scaffold38	414086	AA	GG	1946915644
SNP_P4_111393_419737	NW_004515655.1	Scaffold38	419737	TT	CC	1946915646
SNP_P4_111394_421653	NW_004515655.1	Scaffold38	421653	TT	CC	1946915648
SNP_P4_111396_431286	NW_004515655.1	Scaffold38	431286	AA	GG	1946915650
SNP_P4_111397_433968	NW_004515655.1	Scaffold38	433968	GG	AA	1946915652
SNP_P4_111399_471290	NW_004515655.1	Scaffold38	471290	TT	CC	1946915654
SNP_P4_111400_473867	NW_004515655.1	Scaffold38	473867	GG	AA	1946915656
SNP_P4_111401_473909	NW_004515655.1	Scaffold38	473909	CC	GG	1946915658
SNP_P4_111402_473934	NW_004515655.1	Scaffold38	473934	AA	GG	1946915660
SNP_P4_111404_476840	NW_004515655.1	Scaffold38	476840	GG	AA	1946915662
SNP_P4_111405_487822	NW_004515655.1	Scaffold38	487822	TT	CC	1946915664
SNP_P4_111406_487861	NW_004515655.1	Scaffold38	487861	GG	TT	1946915666
SNP_P4_111407_487954	NW_004515655.1	Scaffold38	487954	TT	CC	1946915668
SNP_P4_111408_488164	NW_004515655.1	Scaffold38	488164	CC	TT	1946915670
SNP_P4_111409_488213	NW_004515655.1	Scaffold38	488213	GG	AA	1946915672
SNP_P4_111410_488219	NW_004515655.1	Scaffold38	488219	TT	CC	1946915674
SNP_P4_111411_488220	NW_004515655.1	Scaffold38	488220	CC	AA	1946915677
SNP_P4_111412_488221	NW_004515655.1	Scaffold38	488221	CC	TT	1946915679
SNP_P4_111413_488287	NW_004515655.1	Scaffold38	488287	TT	CC	1946915681
SNP_P4_111414_488447	NW_004515655.1	Scaffold38	488447	CC	TT	1946915683
SNP_P4_111415_488476	NW_004515655.1	Scaffold38	488476	AA	TT	1946915685
SNP_P4_111416_488542	NW_004515655.1	Scaffold38	488542	TT	CC	1946915687
SNP_P4_111417_488945	NW_004515655.1	Scaffold38	488945	CC	TT	1946915689
SNP_P4_111418_488962	NW_004515655.1	Scaffold38	488962	GG	AA	1946915691
SNP_P4_111419_488973	NW_004515655.1	Scaffold38	488973	TT	CC	1946915693
SNP_P4_111420_489218	NW_004515655.1	Scaffold38	489218	TT	CC	1946915695
SNP_P4_111421_490200	NW_004515655.1	Scaffold38	490200	TT	CC	1946915697
SNP_P4_111422_491384	NW_004515655.1	Scaffold38	491384	TT	CC	1946915699
SNP_P4_111423_496364	NW_004515655.1	Scaffold38	496364	GG	AA	1946915701
SNP_P4_111424_497498	NW_004515655.1	Scaffold38	497498	TT	GG	1946915703
SNP_P4_111426_501846	NW_004515655.1	Scaffold38	501846	AA	GG	1946915705
SNP_P4_111427_502133	NW_004515655.1	Scaffold38	502133	CC	GG	1946915708
SNP_P4_111428_503805	NW_004515655.1	Scaffold38	503805	AA	GG	1946915710
SNP_P4_111429_503850	NW_004515655.1	Scaffold38	503850	CC	TT	1946915712
SNP_P4_111430_504299	NW_004515655.1	Scaffold38	504299	AA	GG	1946915714
SNP_P4_111431_504349	NW_004515655.1	Scaffold38	504349	TT	CC	1946915716
SNP_P4_111432_504366	NW_004515655.1	Scaffold38	504366	AA	GG	1946915718

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_111434_504401	NW_004515655.1	Scaffold38	504401	TT	AA	1946915722
SNP_P4_111435_504413	NW_004515655.1	Scaffold38	504413	TT	GG	1946915724
SNP_P4_111436_504417	NW_004515655.1	Scaffold38	504417	CC	TT	1946915726
SNP_P4_111437_504432	NW_004515655.1	Scaffold38	504432	TT	GG	1946915728
SNP_P4_111438_505442	NW_004515655.1	Scaffold38	505442	GG	TT	1946915730
SNP_P4_111439_509524	NW_004515655.1	Scaffold38	509524	GG	AA	1946915732
SNP_P4_111440_510959	NW_004515655.1	Scaffold38	510959	AA	GG	1946915734
SNP_P4_111441_511966	NW_004515655.1	Scaffold38	511966	CC	TT	1946915736
SNP_P4_111442_520372	NW_004515655.1	Scaffold38	520372	GG	TT	1946915738
SNP_P4_111443_524232	NW_004515655.1	Scaffold38	524232	TT	CC	1946915740
SNP_P4_111444_524246	NW_004515655.1	Scaffold38	524246	GG	AA	1946915742
SNP_P4_111445_524299	NW_004515655.1	Scaffold38	524299	TT	CC	1946915744
SNP_P4_111446_524526	NW_004515655.1	Scaffold38	524526	CC	GG	1946915747
SNP_P4_111447_524570	NW_004515655.1	Scaffold38	524570	AA	CC	1946915749
SNP_P4_111448_524584	NW_004515655.1	Scaffold38	524584	GG	AA	1946915751
SNP_P4_111449_526383	NW_004515655.1	Scaffold38	526383	GG	CC	1946915753
SNP_P4_111450_528158	NW_004515655.1	Scaffold38	528158	CC	AA	1946915755
SNP_P4_111451_530889	NW_004515655.1	Scaffold38	530889	AA	GG	1946915757
SNP_P4_111452_530901	NW_004515655.1	Scaffold38	530901	GG	TT	1946915759
SNP_P4_111453_530942	NW_004515655.1	Scaffold38	530942	GG	TT	1946915761
SNP_P4_111454_535359	NW_004515655.1	Scaffold38	535359	CC	TT	1946915763
SNP_P4_111455_535594	NW_004515655.1	Scaffold38	535594	CC	TT	1946915765
SNP_P4_111456_536132	NW_004515655.1	Scaffold38	536132	TT	GG	1946915767
SNP_P4_111457_539963	NW_004515655.1	Scaffold38	539963	AA	CC	1946915769
SNP_P4_111458_541439	NW_004515655.1	Scaffold38	541439	CC	TT	1946915771
SNP_P4_111460_541795	NW_004515655.1	Scaffold38	541795	GG	AA	1946915773
SNP_P4_111461_541839	NW_004515655.1	Scaffold38	541839	TT	CC	1946915775
SNP_P4_111462_541844	NW_004515655.1	Scaffold38	541844	CC	AA	1946915777
SNP_P4_111463_8987	NW_004515656.1	Scaffold39	8987	CC	TT	1946915779
SNP_P4_111465_40074	NW_004515656.1	Scaffold39	40074	AA	GG	1946915781
SNP_P4_111466_40146	NW_004515656.1	Scaffold39	40146	TT	CC	1946915783
SNP_P4_111468_40339	NW_004515656.1	Scaffold39	40339	AA	GG	1946915785
SNP_P4_111469_40345	NW_004515656.1	Scaffold39	40345	AA	CC	1946915787
SNP_P4_111470_40390	NW_004515656.1	Scaffold39	40390	AA	GG	1946915789
SNP_P4_111471_44789	NW_004515656.1	Scaffold39	44789	AA	TT	1946915791
SNP_P4_111472_276	NW_004515657.1	Scaffold40	276	CC	TT	1946915793
SNP_P4_111473_415	NW_004515657.1	Scaffold40	415	AA	GG	1946915795
SNP_P4_111474_906	NW_004515657.1	Scaffold40	906	TT	CC	1946915797
SNP_P4_111475_974	NW_004515657.1	Scaffold40	974	AA	GG	1946915799
SNP_P4_111476_1254	NW_004515657.1	Scaffold40	1254	TT	AA	1946915801
SNP_P4_111477_1256	NW_004515657.1	Scaffold40	1256	TT	CC	1946915803

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_111479_12404	NW_004515657.1	Scaffold40	12404	GG	TT	1946915807
SNP_P4_111480_12413	NW_004515657.1	Scaffold40	12413	CC	TT	1946915809
SNP_P4_111481_12414	NW_004515657.1	Scaffold40	12414	GG	TT	1946915811
SNP_P4_111482_12418	NW_004515657.1	Scaffold40	12418	GG	TT	1946915813
SNP_P4_111483_12424	NW_004515657.1	Scaffold40	12424	GG	AA	1946915815
SNP_P4_111484_39198	NW_004515657.1	Scaffold40	39198	GG	AA	1946915817
SNP_P4_111485_40457	NW_004515657.1	Scaffold40	40457	CC	TT	1946915819
SNP_P4_111486_40967	NW_004515657.1	Scaffold40	40967	CC	TT	1946915821
SNP_P4_111487_40969	NW_004515657.1	Scaffold40	40969	AA	GG	1946915823
SNP_P4_111488_41035	NW_004515657.1	Scaffold40	41035	GG	TT	1946915825
SNP_P4_111490_41345	NW_004515657.1	Scaffold40	41345	TT	CC	1946915827
SNP_P4_111491_41417	NW_004515657.1	Scaffold40	41417	GG	AA	1946915829
SNP_P4_111493_56944	NW_004515657.1	Scaffold40	56944	GG	AA	1946915831
SNP_P4_111494_58162	NW_004515657.1	Scaffold40	58162	AA	GG	1946915833
SNP_P4_111495_58915	NW_004515657.1	Scaffold40	58915	AA	CC	1946915835
SNP_P4_111496_58937	NW_004515657.1	Scaffold40	58937	TT	CC	1946915837
SNP_P4_111497_58986	NW_004515657.1	Scaffold40	58986	CC	TT	1946915839
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SNP_P4_111499_58991	NW_004515657.1	Scaffold40	58991	GG	TT	1946915843
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SNP_P4_111504_59336	NW_004515657.1	Scaffold40	59336	AA	GG	1946915851
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SNP_P4_111506_59436	NW_004515657.1	Scaffold40	59436	GG	CC	1946915855
SNP_P4_111507_59546	NW_004515657.1	Scaffold40	59546	AA	TT	1946915857
SNP_P4_111508_59570	NW_004515657.1	Scaffold40	59570	CC	TT	1946915859
SNP_P4_111509_59716	NW_004515657.1	Scaffold40	59716	TT	CC	1946915861
SNP_P4_111510_59718	NW_004515657.1	Scaffold40	59718	AA	GG	1946915864
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SNP_P4_111512_67593	NW_004515657.1	Scaffold40	67593	AA	GG	1946915868
SNP_P4_111513_71484	NW_004515657.1	Scaffold40	71484	AA	GG	1946915870
SNP_P4_111514_72936	NW_004515657.1	Scaffold40	72936	TT	CC	1946915872
SNP_P4_111515_75994	NW_004515657.1	Scaffold40	75994	CC	TT	1946915874
SNP_P4_111516_76643	NW_004515657.1	Scaffold40	76643	TT	CC	1946915876
SNP_P4_111517_76749	NW_004515657.1	Scaffold40	76749	TT	CC	1946915878
SNP_P4_111518_87725	NW_004515657.1	Scaffold40	87725	GG	TT	1946915880
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SNP_P4_111520_88324	NW_004515657.1	Scaffold40	88324	GG	AA	1946915884
SNP_P4_111521_88343	NW_004515657.1	Scaffold40	88343	AA	CC	1946915886
SNP_P4_111522_89184	NW_004515657.1	Scaffold40	89184	AA	CC	1946915889

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_111525_89523	NW_004515657.1	Scaffold40	89523	AA	TT	1946915895
SNP_P4_111526_89540	NW_004515657.1	Scaffold40	89540	GG	TT	1946915897
SNP_P4_111528_93883	NW_004515657.1	Scaffold40	93883	CC	GG	1946915899
SNP_P4_111529_94751	NW_004515657.1	Scaffold40	94751	CC	TT	1946915901
SNP_P4_111530_96779	NW_004515657.1	Scaffold40	96779	AA	CC	1946915903
SNP_P4_111531_96834	NW_004515657.1	Scaffold40	96834	TT	AA	1946915905
SNP_P4_111532_100417	NW_004515657.1	Scaffold40	100417	GG	TT	1946915907
SNP_P4_111533_100451	NW_004515657.1	Scaffold40	100451	TT	CC	1946915909
SNP_P4_111534_100467	NW_004515657.1	Scaffold40	100467	TT	AA	1946915911
SNP_P4_111535_100469	NW_004515657.1	Scaffold40	100469	GG	TT	1946915913
SNP_P4_111536_100567	NW_004515657.1	Scaffold40	100567	TT	CC	1946915915
SNP_P4_111537_100640	NW_004515657.1	Scaffold40	100640	CC	TT	1946915917
SNP_P4_111538_100659	NW_004515657.1	Scaffold40	100659	CC	TT	1946915919
SNP_P4_111539_100818	NW_004515657.1	Scaffold40	100818	CC	TT	1946915921
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SNP_P4_111555_101504	NW_004515657.1	Scaffold40	101504	CC	TT	1946915951
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SNP_P4_111557_101526	NW_004515657.1	Scaffold40	101526	TT	AA	1946915955
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SNP_P4_111563_101912	NW_004515657.1	Scaffold40	101912	CC	GG	1946915967
SNP_P4_111564_102079	NW_004515657.1	Scaffold40	102079	AA	GG	1946915969
SNP_P4_111565_108717	NW_004515657.1	Scaffold40	108717	GG	AA	1946915971
SNP_P4_111566_108934	NW_004515657.1	Scaffold40	108934	TT	AA	1946915973

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_111570_133939	NW_004515657.1	Scaffold40	133939	CC	TT	1946915979
SNP_P4_111571_133944	NW_004515657.1	Scaffold40	133944	AA	GG	1946915981
SNP_P4_111572_133994	NW_004515657.1	Scaffold40	133994	CC	TT	1946915983
SNP_P4_111573_135077	NW_004515657.1	Scaffold40	135077	GG	AA	1946915985
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SNP_P4_111579_135473	NW_004515657.1	Scaffold40	135473	TT	AA	1946915997
SNP_P4_111580_135475	NW_004515657.1	Scaffold40	135475	CC	TT	1946915999
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SNP_P4_111585_181296	NW_004515657.1	Scaffold40	181296	TT	GG	1946916009
SNP_P4_111586_181297	NW_004515657.1	Scaffold40	181297	TT	AA	1946916011
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SNP_P4_111599_229492	NW_004515657.1	Scaffold40	229492	AA	TT	1946916038
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SNP_P4_111604_229690	NW_004515657.1	Scaffold40	229690	CC	AA	1946916048
SNP_P4_111605_229693	NW_004515657.1	Scaffold40	229693	TT	GG	1946916050
SNP_P4_111606_230613	NW_004515657.1	Scaffold40	230613	TT	CC	1946916052
SNP_P4_111607_230630	NW_004515657.1	Scaffold40	230630	GG	AA	1946916054
SNP_P4_111608_231249	NW_004515657.1	Scaffold40	231249	CC	TT	1946916056
SNP_P4_111609_239830	NW_004515657.1	Scaffold40	239830	AA	CC	1946916058

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_111610_239835	NW_004515657.1	Scaffold40	239835	GG	AA	1946916060
SNP_P4_111611_239841	NW_004515657.1	Scaffold40	239841	CC	GG	1946916062
SNP_P4_111612_239858	NW_004515657.1	Scaffold40	239858	AA	TT	1946916064
SNP_P4_111613_239884	NW_004515657.1	Scaffold40	239884	TT	GG	1946916066
SNP_P4_111614_264793	NW_004515657.1	Scaffold40	264793	TT	CC	1946916068
SNP_P4_111615_265226	NW_004515657.1	Scaffold40	265226	CC	TT	1946916070
SNP_P4_111616_293912	NW_004515657.1	Scaffold40	293912	TT	CC	1946916072
SNP_P4_111617_293917	NW_004515657.1	Scaffold40	293917	AA	CC	1946916074
SNP_P4_111618_330029	NW_004515657.1	Scaffold40	330029	CC	AA	1946916076
SNP_P4_111619_330047	NW_004515657.1	Scaffold40	330047	GG	AA	1946916078
SNP_P4_111620_357102	NW_004515657.1	Scaffold40	357102	CC	AA	1946916080
SNP_P4_111623_363235	NW_004515657.1	Scaffold40	363235	CC	TT	1946916082
SNP_P4_111624_363396	NW_004515657.1	Scaffold40	363396	CC	AA	1946916084
SNP_P4_111625_363469	NW_004515657.1	Scaffold40	363469	CC	TT	1946916086
SNP_P4_111626_363494	NW_004515657.1	Scaffold40	363494	CC	TT	1946916088
SNP_P4_111627_393100	NW_004515657.1	Scaffold40	393100	TT	CC	1946916090
SNP_P4_111628_393108	NW_004515657.1	Scaffold40	393108	GG	AA	1946916092
SNP_P4_111629_393359	NW_004515657.1	Scaffold40	393359	GG	TT	1946916094
SNP_P4_111630_393479	NW_004515657.1	Scaffold40	393479	TT	AA	1946916096
SNP_P4_111631_393541	NW_004515657.1	Scaffold40	393541	TT	CC	1946916099
SNP_P4_111632_413472	NW_004515657.1	Scaffold40	413472	AA	CC	1946916101
SNP_P4_111633_413488	NW_004515657.1	Scaffold40	413488	AA	GG	1946916103
SNP_P4_111634_434269	NW_004515657.1	Scaffold40	434269	TT	AA	1946916105
SNP_P4_111635_451052	NW_004515657.1	Scaffold40	451052	TT	CC	1946916106
SNP_P4_111636_457037	NW_004515657.1	Scaffold40	457037	GG	AA	1946916108
SNP_P4_111637_457253	NW_004515657.1	Scaffold40	457253	TT	CC	1946916110
SNP_P4_111638_466350	NW_004515657.1	Scaffold40	466350	CC	TT	1946916112
SNP_P4_111639_466354	NW_004515657.1	Scaffold40	466354	GG	CC	1946916114
SNP_P4_111640_466372	NW_004515657.1	Scaffold40	466372	GG	AA	1946916116
SNP_P4_111642_466560	NW_004515657.1	Scaffold40	466560	CC	GG	1946916118
SNP_P4_111644_466819	NW_004515657.1	Scaffold40	466819	CC	GG	1946916120
SNP_P4_111645_466829	NW_004515657.1	Scaffold40	466829	TT	CC	1946916122
SNP_P4_111646_467057	NW_004515657.1	Scaffold40	467057	TT	CC	1946916124
SNP_P4_111648_499185	NW_004515657.1	Scaffold40	499185	AA	GG	1946916126
SNP_P4_111649_527703	NW_004515657.1	Scaffold40	527703	CC	GG	1946916128
SNP_P4_111650_547395	NW_004515657.1	Scaffold40	547395	GG	AA	1946916130
SNP_P4_111651_583595	NW_004515657.1	Scaffold40	583595	TT	GG	1946916132
SNP_P4_111652_585640	NW_004515657.1	Scaffold40	585640	TT	CC	1946916134
SNP_P4_111653_586261	NW_004515657.1	Scaffold40	586261	CC	TT	1946916136
SNP_P4_111654_590294	NW_004515657.1	Scaffold40	590294	TT	CC	1946916138
SNP_P4_111655_590313	NW_004515657.1	Scaffold40	590313	TT	CC	1946916140
SNP_P4_111656_606092	NW_004515657.1	Scaffold40	606092	GG	AA	1946916142

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_111658_648918	NW_004515657.1	Scaffold40	648918	TT	CC	1946916146
SNP_P4_111659_651364	NW_004515657.1	Scaffold40	651364	TT	GG	1946916148
SNP_P4_111660_651700	NW_004515657.1	Scaffold40	651700	TT	CC	1946916150
SNP_P4_111661_668894	NW_004515657.1	Scaffold40	668894	AA	GG	1946916152
SNP_P4_111662_669092	NW_004515657.1	Scaffold40	669092	CC	TT	1946916154
SNP_P4_111663_740800	NW_004515657.1	Scaffold40	740800	CC	TT	1946916156
SNP_P4_111664_753600	NW_004515657.1	Scaffold40	753600	AA	TT	1946916158
SNP_P4_111666_766838	NW_004515657.1	Scaffold40	766838	CC	GG	1946916160
SNP_P4_111667_769948	NW_004515657.1	Scaffold40	769948	GG	AA	1946916162
SNP_P4_111668_770312	NW_004515657.1	Scaffold40	770312	TT	GG	1946916164
SNP_P4_111669_770315	NW_004515657.1	Scaffold40	770315	TT	CC	1946916166
SNP_P4_111670_800095	NW_004515657.1	Scaffold40	800095	GG	TT	1946916168
SNP_P4_111671_800100	NW_004515657.1	Scaffold40	800100	GG	AA	1946916170
SNP_P4_111673_816463	NW_004515657.1	Scaffold40	816463	TT	CC	1946916172
SNP_P4_111674_819201	NW_004515657.1	Scaffold40	819201	CC	GG	1946916174
SNP_P4_111676_829075	NW_004515657.1	Scaffold40	829075	AA	CC	1946916176
SNP_P4_111678_836281	NW_004515657.1	Scaffold40	836281	TT	CC	1946916178
SNP_P4_111679_839679	NW_004515657.1	Scaffold40	839679	TT	CC	1946916180
SNP_P4_111680_839841	NW_004515657.1	Scaffold40	839841	GG	CC	1946916182
SNP_P4_111681_840297	NW_004515657.1	Scaffold40	840297	CC	AA	1946916184
SNP_P4_111682_841340	NW_004515657.1	Scaffold40	841340	AA	CC	1946916186
SNP_P4_111683_841885	NW_004515657.1	Scaffold40	841885	TT	GG	1946916187
SNP_P4_111684_844943	NW_004515657.1	Scaffold40	844943	TT	GG	1946916188
SNP_P4_111685_844949	NW_004515657.1	Scaffold40	844949	CC	AA	1946916189
SNP_P4_111686_844959	NW_004515657.1	Scaffold40	844959	GG	AA	1946916191
SNP_P4_111687_844961	NW_004515657.1	Scaffold40	844961	CC	GG	1946916193
SNP_P4_111688_844963	NW_004515657.1	Scaffold40	844963	TT	GG	1946916195
SNP_P4_111689_845148	NW_004515657.1	Scaffold40	845148	GG	AA	1946916197
SNP_P4_111690_845149	NW_004515657.1	Scaffold40	845149	GG	AA	1946916199
SNP_P4_111691_845158	NW_004515657.1	Scaffold40	845158	GG	AA	1946916201
SNP_P4_111692_845192	NW_004515657.1	Scaffold40	845192	CC	TT	1946916204
SNP_P4_111693_845211	NW_004515657.1	Scaffold40	845211	CC	TT	1946916206
SNP_P4_111694_845373	NW_004515657.1	Scaffold40	845373	GG	AA	1946916208
SNP_P4_111697_846736	NW_004515657.1	Scaffold40	846736	TT	AA	1946916210
SNP_P4_111698_846902	NW_004515657.1	Scaffold40	846902	AA	CC	1946916212
SNP_P4_111699_846905	NW_004515657.1	Scaffold40	846905	TT	CC	1946916214
SNP_P4_111701_852165	NW_004515657.1	Scaffold40	852165	GG	AA	1946916216
SNP_P4_111702_852235	NW_004515657.1	Scaffold40	852235	TT	AA	1946916218
SNP_P4_111703_852238	NW_004515657.1	Scaffold40	852238	CC	TT	1946916220
SNP_P4_111705_852649	NW_004515657.1	Scaffold40	852649	CC	TT	1946916222
SNP_P4_111706_852678	NW_004515657.1	Scaffold40	852678	GG	TT	1946916224

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_111708_852702	NW_004515657.1	Scaffold40	852702	TT	CC	1946916228
SNP_P4_111709_852853	NW_004515657.1	Scaffold40	852853	CC	TT	1946916230
SNP_P4_111710_852861	NW_004515657.1	Scaffold40	852861	GG	AA	1946916232
SNP_P4_111711_852862	NW_004515657.1	Scaffold40	852862	AA	GG	1946916234
SNP_P4_111712_854020	NW_004515657.1	Scaffold40	854020	TT	CC	1946916236
SNP_P4_111713_854871	NW_004515657.1	Scaffold40	854871	CC	GG	1946916239
SNP_P4_111715_854959	NW_004515657.1	Scaffold40	854959	TT	GG	1946916241
SNP_P4_111716_854974	NW_004515657.1	Scaffold40	854974	AA	CC	1946916243
SNP_P4_111717_854985	NW_004515657.1	Scaffold40	854985	AA	TT	1946916245
SNP_P4_111718_855012	NW_004515657.1	Scaffold40	855012	AA	TT	1946916247
SNP_P4_111719_855082	NW_004515657.1	Scaffold40	855082	AA	TT	1946916249
SNP_P4_111720_855135	NW_004515657.1	Scaffold40	855135	AA	GG	1946916251
SNP_P4_111721_855272	NW_004515657.1	Scaffold40	855272	TT	CC	1946916254
SNP_P4_111722_855866	NW_004515657.1	Scaffold40	855866	CC	AA	1946916256
SNP_P4_111724_855951	NW_004515657.1	Scaffold40	855951	AA	GG	1946916258
SNP_P4_111725_856557	NW_004515657.1	Scaffold40	856557	TT	CC	1946916260
SNP_P4_111726_856983	NW_004515657.1	Scaffold40	856983	GG	AA	1946916262
SNP_P4_111727_857202	NW_004515657.1	Scaffold40	857202	TT	CC	1946916264
SNP_P4_111728_857267	NW_004515657.1	Scaffold40	857267	CC	TT	1946916267
SNP_P4_111729_857280	NW_004515657.1	Scaffold40	857280	AA	TT	1946916269
SNP_P4_111730_857632	NW_004515657.1	Scaffold40	857632	TT	GG	1946916271
SNP_P4_111731_858801	NW_004515657.1	Scaffold40	858801	AA	GG	1946916273
SNP_P4_111732_858835	NW_004515657.1	Scaffold40	858835	AA	GG	1946916275
SNP_P4_111733_859176	NW_004515657.1	Scaffold40	859176	CC	AA	1946916277
SNP_P4_111734_860193	NW_004515657.1	Scaffold40	860193	CC	TT	1946916279
SNP_P4_111735_860194	NW_004515657.1	Scaffold40	860194	GG	AA	1946916281
SNP_P4_111736_861655	NW_004515657.1	Scaffold40	861655	TT	CC	1946916283
SNP_P4_111737_861679	NW_004515657.1	Scaffold40	861679	GG	CC	1946916285
SNP_P4_111738_861802	NW_004515657.1	Scaffold40	861802	CC	TT	1946916288
SNP_P4_111739_862496	NW_004515657.1	Scaffold40	862496	AA	CC	1946916290
SNP_P4_111740_862705	NW_004515657.1	Scaffold40	862705	GG	AA	1946916292
SNP_P4_111741_862710	NW_004515657.1	Scaffold40	862710	TT	CC	1946916294
SNP_P4_111742_862712	NW_004515657.1	Scaffold40	862712	AA	GG	1946916296
SNP_P4_111743_862805	NW_004515657.1	Scaffold40	862805	AA	TT	1946916298
SNP_P4_111744_862875	NW_004515657.1	Scaffold40	862875	AA	TT	1946916300
SNP_P4_111745_863070	NW_004515657.1	Scaffold40	863070	CC	TT	1946916302
SNP_P4_111746_863071	NW_004515657.1	Scaffold40	863071	AA	GG	1946916304
SNP_P4_111747_863093	NW_004515657.1	Scaffold40	863093	TT	AA	1946916307
SNP_P4_111748_863712	NW_004515657.1	Scaffold40	863712	TT	GG	1946916309
SNP_P4_111749_863891	NW_004515657.1	Scaffold40	863891	CC	AA	1946916311
SNP_P4_111750_864866	NW_004515657.1	Scaffold40	864866	TT	CC	1946916313

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_111753_866084	NW_004515657.1	Scaffold40	866084	GG	AA	1946916317
SNP_P4_111754_867432	NW_004515657.1	Scaffold40	867432	GG	TT	1946916319
SNP_P4_111755_867522	NW_004515657.1	Scaffold40	867522	CC	AA	1946916321
SNP_P4_111756_867552	NW_004515657.1	Scaffold40	867552	TT	CC	1946916323
SNP_P4_111758_867731	NW_004515657.1	Scaffold40	867731	GG	AA	1946916325
SNP_P4_111759_867810	NW_004515657.1	Scaffold40	867810	CC	AA	1946916327
SNP_P4_111760_867831	NW_004515657.1	Scaffold40	867831	TT	CC	1946916329
SNP_P4_111761_867837	NW_004515657.1	Scaffold40	867837	CC	AA	1946916331
SNP_P4_111762_868610	NW_004515657.1	Scaffold40	868610	AA	TT	1946916334
SNP_P4_111763_869079	NW_004515657.1	Scaffold40	869079	TT	CC	1946916336
SNP_P4_111764_869452	NW_004515657.1	Scaffold40	869452	TT	CC	1946916338
SNP_P4_111765_870096	NW_004515657.1	Scaffold40	870096	AA	GG	1946916340
SNP_P4_111766_874102	NW_004515657.1	Scaffold40	874102	TT	AA	1946916342
SNP_P4_111767_874932	NW_004515657.1	Scaffold40	874932	TT	CC	1946916344
SNP_P4_111768_874933	NW_004515657.1	Scaffold40	874933	GG	AA	1946916346
SNP_P4_111769_874996	NW_004515657.1	Scaffold40	874996	AA	GG	1946916349
SNP_P4_111770_886329	NW_004515657.1	Scaffold40	886329	GG	AA	1946916351
SNP_P4_111771_888083	NW_004515657.1	Scaffold40	888083	TT	GG	1946916353
SNP_P4_111772_892251	NW_004515657.1	Scaffold40	892251	CC	AA	1946916355
SNP_P4_111773_892266	NW_004515657.1	Scaffold40	892266	TT	GG	1946916357
SNP_P4_111774_892557	NW_004515657.1	Scaffold40	892557	TT	CC	1946916359
SNP_P4_111775_894257	NW_004515657.1	Scaffold40	894257	TT	AA	1946916361
SNP_P4_111776_894756	NW_004515657.1	Scaffold40	894756	AA	GG	1946916363
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SNP_P4_111781_896107	NW_004515657.1	Scaffold40	896107	TT	CC	1946916369
SNP_P4_111782_898378	NW_004515657.1	Scaffold40	898378	AA	TT	1946916371
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SNP_P4_111784_899238	NW_004515657.1	Scaffold40	899238	CC	TT	1946916375
SNP_P4_111785_900274	NW_004515657.1	Scaffold40	900274	GG	CC	1946916377
SNP_P4_111786_901083	NW_004515657.1	Scaffold40	901083	CC	TT	1946916379
SNP_P4_111787_901133	NW_004515657.1	Scaffold40	901133	AA	GG	1946916381
SNP_P4_111788_901378	NW_004515657.1	Scaffold40	901378	GG	AA	1946916383
SNP_P4_111790_903551	NW_004515657.1	Scaffold40	903551	TT	CC	1946916385
SNP_P4_111791_903790	NW_004515657.1	Scaffold40	903790	TT	CC	1946916387
SNP_P4_111792_906688	NW_004515657.1	Scaffold40	906688	AA	GG	1946916389
SNP_P4_111793_906697	NW_004515657.1	Scaffold40	906697	TT	AA	1946916391
SNP_P4_111794_907491	NW_004515657.1	Scaffold40	907491	TT	AA	1946916393
SNP_P4_111795_908669	NW_004515657.1	Scaffold40	908669	GG	CC	1946916395
SNP_P4_111796_910184	NW_004515657.1	Scaffold40	910184	CC	TT	1946916397
SNP_P4_111797_918317	NW_004515657.1	Scaffold40	918317	CC	TT	1946916399

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_111799_918608	NW_004515657.1	Scaffold40	918608	TT	CC	1946916403
SNP_P4_111800_918609	NW_004515657.1	Scaffold40	918609	CC	TT	1946916405
SNP_P4_111801_918612	NW_004515657.1	Scaffold40	918612	TT	CC	1946916407
SNP_P4_111802_920283	NW_004515657.1	Scaffold40	920283	CC	AA	1946916409
SNP_P4_111803_920936	NW_004515657.1	Scaffold40	920936	TT	CC	1946916411
SNP_P4_111804_921942	NW_004515657.1	Scaffold40	921942	CC	GG	1946916413
SNP_P4_111805_921946	NW_004515657.1	Scaffold40	921946	CC	AA	1946916414
SNP_P4_111807_925495	NW_004515657.1	Scaffold40	925495	TT	CC	1946916416
SNP_P4_111808_926037	NW_004515657.1	Scaffold40	926037	CC	TT	1946916418
SNP_P4_111809_926178	NW_004515657.1	Scaffold40	926178	CC	AA	1946916420
SNP_P4_111810_926323	NW_004515657.1	Scaffold40	926323	AA	GG	1946916422
SNP_P4_111811_926455	NW_004515657.1	Scaffold40	926455	GG	TT	1946916424
SNP_P4_111812_926477	NW_004515657.1	Scaffold40	926477	GG	AA	1946916426
SNP_P4_111813_932725	NW_004515657.1	Scaffold40	932725	CC	TT	1946916428
SNP_P4_111814_932727	NW_004515657.1	Scaffold40	932727	AA	CC	1946916430
SNP_P4_111815_932752	NW_004515657.1	Scaffold40	932752	TT	GG	1946916432
SNP_P4_111816_933060	NW_004515657.1	Scaffold40	933060	TT	CC	1946916435
SNP_P4_111817_933062	NW_004515657.1	Scaffold40	933062	GG	TT	1946916437
SNP_P4_111818_933064	NW_004515657.1	Scaffold40	933064	AA	TT	1946916439
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SNP_P4_111820_933430	NW_004515657.1	Scaffold40	933430	AA	GG	1946916443
SNP_P4_111821_937042	NW_004515657.1	Scaffold40	937042	TT	CC	1946916445
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SNP_P4_111823_937137	NW_004515657.1	Scaffold40	937137	AA	GG	1946916449
SNP_P4_111824_937159	NW_004515657.1	Scaffold40	937159	AA	GG	1946916451
SNP_P4_111825_937407	NW_004515657.1	Scaffold40	937407	TT	CC	1946916453
SNP_P4_111826_937500	NW_004515657.1	Scaffold40	937500	AA	GG	1946916455
SNP_P4_111827_937614	NW_004515657.1	Scaffold40	937614	TT	CC	1946916457
SNP_P4_111828_953110	NW_004515657.1	Scaffold40	953110	TT	AA	1946916459
SNP_P4_111829_953136	NW_004515657.1	Scaffold40	953136	TT	GG	1946916461
SNP_P4_111830_953457	NW_004515657.1	Scaffold40	953457	CC	TT	1946916463
SNP_P4_111832_954825	NW_004515657.1	Scaffold40	954825	GG	CC	1946916466
SNP_P4_111833_956098	NW_004515657.1	Scaffold40	956098	AA	GG	1946916468
SNP_P4_111834_956135	NW_004515657.1	Scaffold40	956135	TT	CC	1946916470
SNP_P4_111835_958532	NW_004515657.1	Scaffold40	958532	GG	TT	1946916472
SNP_P4_111836_961053	NW_004515657.1	Scaffold40	961053	CC	GG	1946916474
SNP_P4_111837_964189	NW_004515657.1	Scaffold40	964189	AA	CC	1946916476
SNP_P4_111838_964193	NW_004515657.1	Scaffold40	964193	AA	TT	1946916478
SNP_P4_111839_966561	NW_004515657.1	Scaffold40	966561	AA	GG	1946916480
SNP_P4_111840_968798	NW_004515657.1	Scaffold40	968798	AA	GG	1946916482
SNP_P4_111842_976539	NW_004515657.1	Scaffold40	976539	TT	AA	1946916484

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_111843_978643	NW_004515657.1	Scaffold40	978643	AA	GG	1946916486
SNP_P4_111844_979032	NW_004515657.1	Scaffold40	979032	CC	TT	1946916488
SNP_P4_111845_979262	NW_004515657.1	Scaffold40	979262	AA	GG	1946916490
SNP_P4_111847_980965	NW_004515657.1	Scaffold40	980965	TT	AA	1946916492
SNP_P4_111848_981316	NW_004515657.1	Scaffold40	981316	AA	TT	1946916494
SNP_P4_111849_981788	NW_004515657.1	Scaffold40	981788	CC	TT	1946916496
SNP_P4_111850_981808	NW_004515657.1	Scaffold40	981808	GG	TT	1946916498
SNP_P4_111851_982115	NW_004515657.1	Scaffold40	982115	AA	GG	1946916500
SNP_P4_111852_982985	NW_004515657.1	Scaffold40	982985	AA	TT	1946916502
SNP_P4_111853_983045	NW_004515657.1	Scaffold40	983045	TT	AA	1946916504
SNP_P4_111854_983798	NW_004515657.1	Scaffold40	983798	AA	GG	1946916506
SNP_P4_111855_988248	NW_004515657.1	Scaffold40	988248	TT	CC	1946916508
SNP_P4_111856_988548	NW_004515657.1	Scaffold40	988548	TT	CC	1946916510
SNP_P4_111857_989508	NW_004515657.1	Scaffold40	989508	CC	AA	1946916512
SNP_P4_111858_989562	NW_004515657.1	Scaffold40	989562	TT	AA	1946916514
SNP_P4_111859_989580	NW_004515657.1	Scaffold40	989580	TT	CC	1946916516
SNP_P4_111860_990000	NW_004515657.1	Scaffold40	990000	GG	AA	1946916518
SNP_P4_111861_990128	NW_004515657.1	Scaffold40	990128	TT	CC	1946916520
SNP_P4_111862_990452	NW_004515657.1	Scaffold40	990452	GG	TT	1946916522
SNP_P4_111864_990605	NW_004515657.1	Scaffold40	990605	TT	AA	1946916524
SNP_P4_111865_990655	NW_004515657.1	Scaffold40	990655	GG	AA	1946916526
SNP_P4_111866_990727	NW_004515657.1	Scaffold40	990727	TT	CC	1946916528
SNP_P4_111867_990754	NW_004515657.1	Scaffold40	990754	TT	CC	1946916530
SNP_P4_111868_990789	NW_004515657.1	Scaffold40	990789	GG	AA	1946916532
SNP_P4_111869_991068	NW_004515657.1	Scaffold40	991068	AA	GG	1946916534
SNP_P4_111870_991159	NW_004515657.1	Scaffold40	991159	TT	CC	1946916536
SNP_P4_111871_991167	NW_004515657.1	Scaffold40	991167	AA	CC	1946916538
SNP_P4_111872_996079	NW_004515657.1	Scaffold40	996079	CC	TT	1946916540
SNP_P4_111874_998964	NW_004515657.1	Scaffold40	998964	CC	TT	1946916543
SNP_P4_111875_999206	NW_004515657.1	Scaffold40	999206	TT	CC	1946916545
SNP_P4_111876_1000234	NW_004515657.1	Scaffold40	1000234	TT	GG	1946916547
SNP_P4_111877_1000684	NW_004515657.1	Scaffold40	1000684	AA	TT	1946916549
SNP_P4_111878_1001231	NW_004515657.1	Scaffold40	1001231	CC	GG	1946916551
SNP_P4_111879_1001232	NW_004515657.1	Scaffold40	1001232	AA	CC	1946916553
SNP_P4_111880_1005212	NW_004515657.1	Scaffold40	1005212	CC	TT	1946916555
SNP_P4_111881_1006421	NW_004515657.1	Scaffold40	1006421	CC	TT	1946916557
SNP_P4_111882_1007710	NW_004515657.1	Scaffold40	1007710	AA	TT	1946916559
SNP_P4_111883_1007719	NW_004515657.1	Scaffold40	1007719	GG	AA	1946916561
SNP_P4_111884_1009410	NW_004515657.1	Scaffold40	1009410	AA	GG	1946916563
SNP_P4_111886_1009524	NW_004515657.1	Scaffold40	1009524	TT	CC	1946916565
SNP_P4_111887_1009571	NW_004515657.1	Scaffold40	1009571	GG	AA	1946916567
SNP_P4_111888_1009576	NW_004515657.1	Scaffold40	1009576	GG	CC	1946916569

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_111890_1009861	NW_004515657.1	Scaffold40	1009861	GG	AA	1946916573
SNP_P4_111891_1016017	NW_004515657.1	Scaffold40	1016017	GG	AA	1946916575
SNP_P4_111892_1016291	NW_004515657.1	Scaffold40	1016291	TT	AA	1946916577
SNP_P4_111893_1016295	NW_004515657.1	Scaffold40	1016295	GG	AA	1946916579
SNP_P4_111895_1016327	NW_004515657.1	Scaffold40	1016327	GG	AA	1946916581
SNP_P4_111896_1018244	NW_004515657.1	Scaffold40	1018244	TT	CC	1946916583
SNP_P4_111897_1018572	NW_004515657.1	Scaffold40	1018572	TT	CC	1946916585
SNP_P4_111898_1018639	NW_004515657.1	Scaffold40	1018639	CC	TT	1946916587
SNP_P4_111899_1019398	NW_004515657.1	Scaffold40	1019398	AA	TT	1946916589
SNP_P4_111900_1019562	NW_004515657.1	Scaffold40	1019562	CC	AA	1946916591
SNP_P4_111901_1019563	NW_004515657.1	Scaffold40	1019563	AA	GG	1946916593
SNP_P4_111902_1021096	NW_004515657.1	Scaffold40	1021096	CC	GG	1946916595
SNP_P4_111903_1023465	NW_004515657.1	Scaffold40	1023465	GG	AA	1946916597
SNP_P4_111904_1023472	NW_004515657.1	Scaffold40	1023472	AA	GG	1946916599
SNP_P4_111905_1023880	NW_004515657.1	Scaffold40	1023880	AA	CC	1946916601
SNP_P4_111906_1023929	NW_004515657.1	Scaffold40	1023929	CC	TT	1946916603
SNP_P4_111907_1023967	NW_004515657.1	Scaffold40	1023967	CC	AA	1946916605
SNP_P4_111908_1024246	NW_004515657.1	Scaffold40	1024246	CC	TT	1946916607
SNP_P4_111909_1024247	NW_004515657.1	Scaffold40	1024247	TT	CC	1946916609
SNP_P4_111910_1024955	NW_004515657.1	Scaffold40	1024955	GG	AA	1946916611
SNP_P4_111911_1024971	NW_004515657.1	Scaffold40	1024971	TT	GG	1946916613
SNP_P4_111912_1024985	NW_004515657.1	Scaffold40	1024985	AA	GG	1946916615
SNP_P4_111913_1025002	NW_004515657.1	Scaffold40	1025002	CC	TT	1946916617
SNP_P4_111914_1025420	NW_004515657.1	Scaffold40	1025420	GG	AA	1946916619
SNP_P4_111915_1025429	NW_004515657.1	Scaffold40	1025429	GG	AA	1946916621
SNP_P4_111916_1025436	NW_004515657.1	Scaffold40	1025436	AA	GG	1946916623
SNP_P4_111917_1025442	NW_004515657.1	Scaffold40	1025442	TT	CC	1946916625
SNP_P4_111918_1025456	NW_004515657.1	Scaffold40	1025456	AA	GG	1946916627
SNP_P4_111919_1025465	NW_004515657.1	Scaffold40	1025465	TT	CC	1946916630
SNP_P4_111920_1025576	NW_004515657.1	Scaffold40	1025576	AA	CC	1946916632
SNP_P4_111921_1028442	NW_004515657.1	Scaffold40	1028442	GG	AA	1946916634
SNP_P4_111922_1028677	NW_004515657.1	Scaffold40	1028677	TT	CC	1946916636
SNP_P4_111923_1029175	NW_004515657.1	Scaffold40	1029175	TT	CC	1946916638
SNP_P4_111924_1030070	NW_004515657.1	Scaffold40	1030070	CC	TT	1946916640
SNP_P4_111925_1030136	NW_004515657.1	Scaffold40	1030136	AA	GG	1946916642
SNP_P4_111926_1030439	NW_004515657.1	Scaffold40	1030439	CC	TT	1946916644
SNP_P4_111927_1031586	NW_004515657.1	Scaffold40	1031586	AA	GG	1946916646
SNP_P4_111928_1031628	NW_004515657.1	Scaffold40	1031628	AA	GG	1946916649
SNP_P4_111929_1031632	NW_004515657.1	Scaffold40	1031632	GG	AA	1946916651
SNP_P4_111930_1031653	NW_004515657.1	Scaffold40	1031653	AA	TT	1946916653
SNP_P4_111931_1031678	NW_004515657.1	Scaffold40	1031678	GG	AA	1946916655

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_111933_1031914	NW_004515657.1	Scaffold40	1031914	CC	TT	1946916659
SNP_P4_111934_1031971	NW_004515657.1	Scaffold40	1031971	TT	CC	1946916661
SNP_P4_111935_1032047	NW_004515657.1	Scaffold40	1032047	AA	GG	1946916663
SNP_P4_111936_1032180	NW_004515657.1	Scaffold40	1032180	AA	GG	1946916665
SNP_P4_111937_1033662	NW_004515657.1	Scaffold40	1033662	AA	GG	1946916667
SNP_P4_111938_1043075	NW_004515657.1	Scaffold40	1043075	CC	AA	1946916669
SNP_P4_111939_1043144	NW_004515657.1	Scaffold40	1043144	CC	AA	1946916671
SNP_P4_111940_1049250	NW_004515657.1	Scaffold40	1049250	CC	TT	1946916673
SNP_P4_111941_1050979	NW_004515657.1	Scaffold40	1050979	TT	GG	1946916675
SNP_P4_111942_1051936	NW_004515657.1	Scaffold40	1051936	AA	GG	1946916677
SNP_P4_111943_1052438	NW_004515657.1	Scaffold40	1052438	CC	AA	1946916679
SNP_P4_111944_1054723	NW_004515657.1	Scaffold40	1054723	GG	AA	1946916681
SNP_P4_111945_1054766	NW_004515657.1	Scaffold40	1054766	GG	AA	1946916683
SNP_P4_111946_1054768	NW_004515657.1	Scaffold40	1054768	TT	CC	1946916685
SNP_P4_111948_1055087	NW_004515657.1	Scaffold40	1055087	TT	AA	1946916687
SNP_P4_111950_1056968	NW_004515657.1	Scaffold40	1056968	GG	TT	1946916689
SNP_P4_111951_1056982	NW_004515657.1	Scaffold40	1056982	TT	CC	1946916691
SNP_P4_111952_1056986	NW_004515657.1	Scaffold40	1056986	CC	TT	1946916693
SNP_P4_111953_1056988	NW_004515657.1	Scaffold40	1056988	CC	AA	1946916695
SNP_P4_111954_1056998	NW_004515657.1	Scaffold40	1056998	AA	GG	1946916697
SNP_P4_111955_1057014	NW_004515657.1	Scaffold40	1057014	GG	AA	1946916699
SNP_P4_111956_1057505	NW_004515657.1	Scaffold40	1057505	GG	AA	1946916701
SNP_P4_111957_1057970	NW_004515657.1	Scaffold40	1057970	TT	CC	1946916703
SNP_P4_111958_1057981	NW_004515657.1	Scaffold40	1057981	AA	GG	1946916705
SNP_P4_111959_1058001	NW_004515657.1	Scaffold40	1058001	GG	CC	1946916707
SNP_P4_111960_1058066	NW_004515657.1	Scaffold40	1058066	GG	AA	1946916709
SNP_P4_111961_1058375	NW_004515657.1	Scaffold40	1058375	AA	TT	1946916711
SNP_P4_111962_1058380	NW_004515657.1	Scaffold40	1058380	CC	TT	1946916713
SNP_P4_111963_1060174	NW_004515657.1	Scaffold40	1060174	GG	AA	1946916715
SNP_P4_111964_1060196	NW_004515657.1	Scaffold40	1060196	GG	AA	1946916717
SNP_P4_111965_1060349	NW_004515657.1	Scaffold40	1060349	AA	GG	1946916719
SNP_P4_111967_7147	NW_004515658.1	Scaffold41	7147	AA	TT	1946916721
SNP_P4_111968_25125	NW_004515658.1	Scaffold41	25125	CC	TT	1946916723
SNP_P4_111969_25143	NW_004515658.1	Scaffold41	25143	GG	AA	1946916725
SNP_P4_111970_25153	NW_004515658.1	Scaffold41	25153	TT	CC	1946916727
SNP_P4_111971_25161	NW_004515658.1	Scaffold41	25161	GG	TT	1946916729
SNP_P4_111972_25162	NW_004515658.1	Scaffold41	25162	CC	AA	1946916730
SNP_P4_111973_25164	NW_004515658.1	Scaffold41	25164	CC	TT	1946916731
SNP_P4_111974_25182	NW_004515658.1	Scaffold41	25182	TT	CC	1946916732
SNP_P4_111975_25237	NW_004515658.1	Scaffold41	25237	GG	AA	1946916734
SNP_P4_111976_25249	NW_004515658.1	Scaffold41	25249	TT	GG	1946916736

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_111978_25260	NW_004515658.1	Scaffold41	25260	TT	CC	1946916740
SNP_P4_111979_25266	NW_004515658.1	Scaffold41	25266	CC	TT	1946916742
SNP_P4_111980_25296	NW_004515658.1	Scaffold41	25296	GG	TT	1946916744
SNP_P4_111981_25329	NW_004515658.1	Scaffold41	25329	GG	AA	1946916746
SNP_P4_111982_25350	NW_004515658.1	Scaffold41	25350	GG	AA	1946916748
SNP_P4_111983_25428	NW_004515658.1	Scaffold41	25428	CC	TT	1946916750
SNP_P4_111984_25555	NW_004515658.1	Scaffold41	25555	GG	AA	1946916752
SNP_P4_111985_28449	NW_004515658.1	Scaffold41	28449	CC	AA	1946916754
SNP_P4_111986_53395	NW_004515658.1	Scaffold41	53395	CC	AA	1946916755
SNP_P4_111988_92997	NW_004515658.1	Scaffold41	92997	AA	CC	1946916757
SNP_P4_111989_100759	NW_004515658.1	Scaffold41	100759	GG	AA	1946916759
SNP_P4_111990_108544	NW_004515658.1	Scaffold41	108544	TT	CC	1946916761
SNP_P4_111991_113170	NW_004515658.1	Scaffold41	113170	GG	TT	1946916763
SNP_P4_111992_113773	NW_004515658.1	Scaffold41	113773	TT	CC	1946916765
SNP_P4_111993_113817	NW_004515658.1	Scaffold41	113817	AA	GG	1946916767
SNP_P4_111995_114018	NW_004515658.1	Scaffold41	114018	AA	TT	1946916769
SNP_P4_111996_114062	NW_004515658.1	Scaffold41	114062	TT	AA	1946916771
SNP_P4_111997_114118	NW_004515658.1	Scaffold41	114118	GG	CC	1946916773
SNP_P4_111999_114744	NW_004515658.1	Scaffold41	114744	TT	AA	1946916775
SNP_P4_112000_114808	NW_004515658.1	Scaffold41	114808	AA	GG	1946916777
SNP_P4_112001_114861	NW_004515658.1	Scaffold41	114861	TT	CC	1946916779
SNP_P4_112002_114932	NW_004515658.1	Scaffold41	114932	AA	TT	1946916781
SNP_P4_112004_116465	NW_004515658.1	Scaffold41	116465	TT	GG	1946916783
SNP_P4_112005_116543	NW_004515658.1	Scaffold41	116543	AA	CC	1946916785
SNP_P4_112006_116574	NW_004515658.1	Scaffold41	116574	AA	CC	1946916787
SNP_P4_112007_122127	NW_004515658.1	Scaffold41	122127	TT	CC	1946916789
SNP_P4_112008_122128	NW_004515658.1	Scaffold41	122128	AA	GG	1946916791
SNP_P4_112009_122189	NW_004515658.1	Scaffold41	122189	TT	CC	1946916793
SNP_P4_112011_122285	NW_004515658.1	Scaffold41	122285	TT	CC	1946916795
SNP_P4_112012_122286	NW_004515658.1	Scaffold41	122286	GG	AA	1946916797
SNP_P4_112013_122301	NW_004515658.1	Scaffold41	122301	AA	GG	1946916799
SNP_P4_112014_122302	NW_004515658.1	Scaffold41	122302	TT	GG	1946916801
SNP_P4_112017_122388	NW_004515658.1	Scaffold41	122388	AA	CC	1946916803
SNP_P4_112018_122402	NW_004515658.1	Scaffold41	122402	AA	TT	1946916805
SNP_P4_112019_122409	NW_004515658.1	Scaffold41	122409	CC	TT	1946916807
SNP_P4_112020_122427	NW_004515658.1	Scaffold41	122427	CC	GG	1946916809
SNP_P4_112021_122509	NW_004515658.1	Scaffold41	122509	TT	CC	1946916811
SNP_P4_112022_122510	NW_004515658.1	Scaffold41	122510	TT	GG	1946916813
SNP_P4_112023_122513	NW_004515658.1	Scaffold41	122513	TT	CC	1946916815
SNP_P4_112024_122527	NW_004515658.1	Scaffold41	122527	TT	GG	1946916817
SNP_P4_112025_122633	NW_004515658.1	Scaffold41	122633	TT	CC	1946916819

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_112027_122687	NW_004515658.1	Scaffold41	122687	AA	TT	1946916823
SNP_P4_112028_122713	NW_004515658.1	Scaffold41	122713	TT	CC	1946916825
SNP_P4_112029_122789	NW_004515658.1	Scaffold41	122789	AA	CC	1946916827
SNP_P4_112030_127684	NW_004515658.1	Scaffold41	127684	CC	AA	1946916830
SNP_P4_112031_127687	NW_004515658.1	Scaffold41	127687	TT	AA	1946916832
SNP_P4_112032_145041	NW_004515658.1	Scaffold41	145041	GG	AA	1946916834
SNP_P4_112033_145088	NW_004515658.1	Scaffold41	145088	GG	AA	1946916836
SNP_P4_112034_145425	NW_004515658.1	Scaffold41	145425	TT	CC	1946916838
SNP_P4_112035_159664	NW_004515658.1	Scaffold41	159664	AA	CC	1946916840
SNP_P4_112037_157	NW_004515660.1	Scaffold44	157	AA	GG	1946916842
SNP_P4_112038_434	NW_004515660.1	Scaffold44	434	CC	TT	1946916844
SNP_P4_112039_637	NW_004515660.1	Scaffold44	637	TT	GG	1946916846
SNP_P4_112041_3722	NW_004515660.1	Scaffold44	3722	CC	GG	1946916848
SNP_P4_112042_15327	NW_004515660.1	Scaffold44	15327	CC	TT	1946916850
SNP_P4_112043_19629	NW_004515660.1	Scaffold44	19629	GG	TT	1946916852
SNP_P4_112044_23527	NW_004515660.1	Scaffold44	23527	CC	TT	1946916854
SNP_P4_112046_27751	NW_004515660.1	Scaffold44	27751	TT	AA	1946916856
SNP_P4_112047_35740	NW_004515660.1	Scaffold44	35740	GG	TT	1946916858
SNP_P4_112048_53763	NW_004515660.1	Scaffold44	53763	CC	TT	1946916860
SNP_P4_112049_53818	NW_004515660.1	Scaffold44	53818	AA	GG	1946916862
SNP_P4_112050_69191	NW_004515660.1	Scaffold44	69191	CC	AA	1946916864
SNP_P4_112052_97796	NW_004515660.1	Scaffold44	97796	AA	GG	1946916866
SNP_P4_112053_97802	NW_004515660.1	Scaffold44	97802	GG	AA	1946916868
SNP_P4_112054_98151	NW_004515660.1	Scaffold44	98151	AA	CC	1946916870
SNP_P4_112055_98190	NW_004515660.1	Scaffold44	98190	AA	GG	1946916872
SNP_P4_112056_101540	NW_004515660.1	Scaffold44	101540	AA	GG	1946916874
SNP_P4_112057_101636	NW_004515660.1	Scaffold44	101636	AA	GG	1946916876
SNP_P4_112058_113019	NW_004515660.1	Scaffold44	113019	GG	AA	1946916878
SNP_P4_112059_113726	NW_004515660.1	Scaffold44	113726	CC	TT	1946916879
SNP_P4_112060_126639	NW_004515660.1	Scaffold44	126639	AA	GG	1946916881
SNP_P4_112061_126989	NW_004515660.1	Scaffold44	126989	AA	GG	1946916883
SNP_P4_112062_127079	NW_004515660.1	Scaffold44	127079	TT	GG	1946916885
SNP_P4_112063_127099	NW_004515660.1	Scaffold44	127099	AA	GG	1946916887
SNP_P4_112064_127609	NW_004515660.1	Scaffold44	127609	GG	AA	1946916889
SNP_P4_112065_127667	NW_004515660.1	Scaffold44	127667	TT	CC	1946916891
SNP_P4_112066_143363	NW_004515660.1	Scaffold44	143363	CC	TT	1946916893
SNP_P4_112067_147111	NW_004515660.1	Scaffold44	147111	TT	CC	1946916895
SNP_P4_112068_147137	NW_004515660.1	Scaffold44	147137	GG	TT	1946916897
SNP_P4_112069_189116	NW_004515660.1	Scaffold44	189116	GG	AA	1946916899
SNP_P4_112070_205973	NW_004515660.1	Scaffold44	205973	CC	AA	1946916900
SNP_P4_112071_218473	NW_004515660.1	Scaffold44	218473	GG	CC	1946916902

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_112072_229388	NW_004515660.1	Scaffold44	229388	CC	AA	1946916904
SNP_P4_112073_241881	NW_004515660.1	Scaffold44	241881	AA	GG	1946916906
SNP_P4_112075_282200	NW_004515660.1	Scaffold44	282200	AA	GG	1946916908
SNP_P4_112076_282217	NW_004515660.1	Scaffold44	282217	AA	TT	1946916910
SNP_P4_112079_290462	NW_004515660.1	Scaffold44	290462	GG	TT	1946916912
SNP_P4_112080_290878	NW_004515660.1	Scaffold44	290878	CC	TT	1946916914
SNP_P4_112081_489	NW_004515661.1	Scaffold46	489	GG	TT	1946916916
SNP_P4_112082_900	NW_004515661.1	Scaffold46	900	AA	GG	1946916918
SNP_P4_112083_1027	NW_004515661.1	Scaffold46	1027	GG	AA	1946916920
SNP_P4_112084_1607	NW_004515661.1	Scaffold46	1607	AA	GG	1946916922
SNP_P4_112085_1823	NW_004515661.1	Scaffold46	1823	AA	GG	1946916924
SNP_P4_112086_2910	NW_004515661.1	Scaffold46	2910	CC	AA	1946916925
SNP_P4_112087_3108	NW_004515661.1	Scaffold46	3108	CC	TT	1946916927
SNP_P4_112088_3190	NW_004515661.1	Scaffold46	3190	AA	CC	1946916929
SNP_P4_112089_3193	NW_004515661.1	Scaffold46	3193	CC	GG	1946916931
SNP_P4_112090_3254	NW_004515661.1	Scaffold46	3254	AA	TT	1946916933
SNP_P4_112091_3288	NW_004515661.1	Scaffold46	3288	GG	AA	1946916935
SNP_P4_112092_3575	NW_004515661.1	Scaffold46	3575	AA	CC	1946916937
SNP_P4_112093_4423	NW_004515661.1	Scaffold46	4423	AA	GG	1946916939
SNP_P4_112094_4496	NW_004515661.1	Scaffold46	4496	GG	AA	1946916941
SNP_P4_112095_5073	NW_004515661.1	Scaffold46	5073	TT	GG	1946916943
SNP_P4_112096_5087	NW_004515661.1	Scaffold46	5087	TT	AA	1946916945
SNP_P4_112097_5178	NW_004515661.1	Scaffold46	5178	AA	GG	1946916947
SNP_P4_112098_5192	NW_004515661.1	Scaffold46	5192	TT	CC	1946916949
SNP_P4_112099_5345	NW_004515661.1	Scaffold46	5345	AA	CC	1946916951
SNP_P4_112100_5367	NW_004515661.1	Scaffold46	5367	GG	TT	1946916953
SNP_P4_112101_5424	NW_004515661.1	Scaffold46	5424	CC	TT	1946916955
SNP_P4_112102_5450	NW_004515661.1	Scaffold46	5450	GG	AA	1946916957
SNP_P4_112103_5590	NW_004515661.1	Scaffold46	5590	AA	CC	1946916958
SNP_P4_112104_5611	NW_004515661.1	Scaffold46	5611	TT	CC	1946916960
SNP_P4_112105_5684	NW_004515661.1	Scaffold46	5684	CC	TT	1946916962
SNP_P4_112106_5767	NW_004515661.1	Scaffold46	5767	CC	TT	1946916964
SNP_P4_112107_5832	NW_004515661.1	Scaffold46	5832	GG	AA	1946916966
SNP_P4_112108_5930	NW_004515661.1	Scaffold46	5930	CC	TT	1946916968
SNP_P4_112110_6132	NW_004515661.1	Scaffold46	6132	CC	TT	1946916971
SNP_P4_112111_6134	NW_004515661.1	Scaffold46	6134	GG	AA	1946916973
SNP_P4_112112_6374	NW_004515661.1	Scaffold46	6374	AA	GG	1946916975
SNP_P4_112113_6444	NW_004515661.1	Scaffold46	6444	TT	CC	1946916977
SNP_P4_112114_6459	NW_004515661.1	Scaffold46	6459	AA	GG	1946916979
SNP_P4_112115_6538	NW_004515661.1	Scaffold46	6538	AA	GG	1946916981
SNP_P4_112116_6680	NW_004515661.1	Scaffold46	6680	AA	GG	1946916983
SNP_P4_112117_6756	NW_004515661.1	Scaffold46	6756	TT	GG	1946916985

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_112118_6762	NW_004515661.1	Scaffold46	6762	TT	CC	1946916987
SNP_P4_112119_7335	NW_004515661.1	Scaffold46	7335	TT	CC	1946916989
SNP_P4_112120_7516	NW_004515661.1	Scaffold46	7516	GG	CC	1946916991
SNP_P4_112121_7713	NW_004515661.1	Scaffold46	7713	TT	GG	1946916993
SNP_P4_112122_7788	NW_004515661.1	Scaffold46	7788	AA	TT	1946916995
SNP_P4_112123_7789	NW_004515661.1	Scaffold46	7789	GG	AA	1946916997
SNP_P4_112124_7803	NW_004515661.1	Scaffold46	7803	TT	GG	1946916999
SNP_P4_112125_7815	NW_004515661.1	Scaffold46	7815	CC	GG	1946917001
SNP_P4_112126_7865	NW_004515661.1	Scaffold46	7865	TT	AA	1946917003
SNP_P4_112127_7928	NW_004515661.1	Scaffold46	7928	TT	CC	1946917005
SNP_P4_112128_7952	NW_004515661.1	Scaffold46	7952	GG	CC	1946917007
SNP_P4_112129_8033	NW_004515661.1	Scaffold46	8033	AA	GG	1946917010
SNP_P4_112130_8055	NW_004515661.1	Scaffold46	8055	GG	CC	1946917012
SNP_P4_112131_8091	NW_004515661.1	Scaffold46	8091	AA	CC	1946917014
SNP_P4_112132_8093	NW_004515661.1	Scaffold46	8093	GG	TT	1946917016
SNP_P4_112133_8193	NW_004515661.1	Scaffold46	8193	GG	CC	1946917018
SNP_P4_112134_8197	NW_004515661.1	Scaffold46	8197	AA	TT	1946917020
SNP_P4_112135_8224	NW_004515661.1	Scaffold46	8224	GG	AA	1946917022
SNP_P4_112136_8239	NW_004515661.1	Scaffold46	8239	AA	GG	1946917024
SNP_P4_112137_8298	NW_004515661.1	Scaffold46	8298	AA	TT	1946917026
SNP_P4_112138_8350	NW_004515661.1	Scaffold46	8350	CC	TT	1946917028
SNP_P4_112139_8518	NW_004515661.1	Scaffold46	8518	CC	GG	1946917030
SNP_P4_112140_8557	NW_004515661.1	Scaffold46	8557	AA	CC	1946917032
SNP_P4_112142_9155	NW_004515661.1	Scaffold46	9155	AA	TT	1946917035
SNP_P4_112143_14000	NW_004515661.1	Scaffold46	14000	TT	CC	1946917037
SNP_P4_112144_14148	NW_004515661.1	Scaffold46	14148	AA	CC	1946917039
SNP_P4_112145_14149	NW_004515661.1	Scaffold46	14149	CC	GG	1946917041
SNP_P4_112146_14172	NW_004515661.1	Scaffold46	14172	TT	CC	1946917043
SNP_P4_112147_14330	NW_004515661.1	Scaffold46	14330	AA	CC	1946917045
SNP_P4_112148_14331	NW_004515661.1	Scaffold46	14331	CC	AA	1946917047
SNP_P4_112149_14376	NW_004515661.1	Scaffold46	14376	AA	TT	1946917049
SNP_P4_112150_14442	NW_004515661.1	Scaffold46	14442	TT	GG	1946917051
SNP_P4_112151_14470	NW_004515661.1	Scaffold46	14470	GG	CC	1946917053
SNP_P4_112152_14484	NW_004515661.1	Scaffold46	14484	TT	AA	1946917055
SNP_P4_112153_14505	NW_004515661.1	Scaffold46	14505	TT	AA	1946917057
SNP_P4_112154_14643	NW_004515661.1	Scaffold46	14643	AA	GG	1946917059
SNP_P4_112155_14800	NW_004515661.1	Scaffold46	14800	AA	GG	1946917061
SNP_P4_112156_14818	NW_004515661.1	Scaffold46	14818	GG	CC	1946917063
SNP_P4_112157_14821	NW_004515661.1	Scaffold46	14821	TT	AA	1946917065
SNP_P4_112158_14891	NW_004515661.1	Scaffold46	14891	GG	AA	1946917067
SNP_P4_112159_14960	NW_004515661.1	Scaffold46	14960	TT	GG	1946917069
SNP_P4_112160_14996	NW_004515661.1	Scaffold46	14996	TT	AA	1946917071

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_112161_15020	NW_004515661.1	Scaffold46	15020	AA	GG	1946917073
SNP_P4_112162_15035	NW_004515661.1	Scaffold46	15035	GG	AA	1946917075
SNP_P4_112163_15063	NW_004515661.1	Scaffold46	15063	TT	CC	1946917077
SNP_P4_112164_15140	NW_004515661.1	Scaffold46	15140	TT	GG	1946917079
SNP_P4_112165_15235	NW_004515661.1	Scaffold46	15235	CC	TT	1946917081
SNP_P4_112166_15266	NW_004515661.1	Scaffold46	15266	AA	CC	1946917083
SNP_P4_112167_15405	NW_004515661.1	Scaffold46	15405	CC	TT	1946917085
SNP_P4_112168_15408	NW_004515661.1	Scaffold46	15408	AA	GG	1946917087
SNP_P4_112169_15413	NW_004515661.1	Scaffold46	15413	TT	GG	1946917089
SNP_P4_112170_15458	NW_004515661.1	Scaffold46	15458	GG	AA	1946917091
SNP_P4_112171_15460	NW_004515661.1	Scaffold46	15460	TT	AA	1946917093
SNP_P4_112172_15468	NW_004515661.1	Scaffold46	15468	GG	TT	1946917095
SNP_P4_112173_15486	NW_004515661.1	Scaffold46	15486	TT	CC	1946917098
SNP_P4_112174_15577	NW_004515661.1	Scaffold46	15577	AA	TT	1946917100
SNP_P4_112175_15598	NW_004515661.1	Scaffold46	15598	TT	CC	1946917102
SNP_P4_112176_16278	NW_004515661.1	Scaffold46	16278	AA	GG	1946917104
SNP_P4_112177_16612	NW_004515661.1	Scaffold46	16612	TT	GG	1946917106
SNP_P4_112178_20117	NW_004515661.1	Scaffold46	20117	AA	TT	1946917108
SNP_P4_112179_20139	NW_004515661.1	Scaffold46	20139	AA	TT	1946917110
SNP_P4_112180_20184	NW_004515661.1	Scaffold46	20184	AA	GG	1946917112
SNP_P4_112181_20311	NW_004515661.1	Scaffold46	20311	AA	GG	1946917114
SNP_P4_112182_20363	NW_004515661.1	Scaffold46	20363	TT	CC	1946917116
SNP_P4_112183_20497	NW_004515661.1	Scaffold46	20497	GG	AA	1946917118
SNP_P4_112184_20810	NW_004515661.1	Scaffold46	20810	AA	TT	1946917120
SNP_P4_112185_20940	NW_004515661.1	Scaffold46	20940	TT	AA	1946917122
SNP_P4_112186_20959	NW_004515661.1	Scaffold46	20959	AA	GG	1946917124
SNP_P4_112187_20998	NW_004515661.1	Scaffold46	20998	AA	CC	1946917126
SNP_P4_112188_21069	NW_004515661.1	Scaffold46	21069	GG	CC	1946917128
SNP_P4_112189_21150	NW_004515661.1	Scaffold46	21150	GG	AA	1946917130
SNP_P4_112190_21227	NW_004515661.1	Scaffold46	21227	TT	AA	1946917132
SNP_P4_112191_21382	NW_004515661.1	Scaffold46	21382	CC	AA	1946917134
SNP_P4_112192_21405	NW_004515661.1	Scaffold46	21405	TT	CC	1946917136
SNP_P4_112193_21437	NW_004515661.1	Scaffold46	21437	AA	GG	1946917138
SNP_P4_112194_24487	NW_004515661.1	Scaffold46	24487	TT	AA	1946917140
SNP_P4_112195_24506	NW_004515661.1	Scaffold46	24506	GG	AA	1946917142
SNP_P4_112196_24539	NW_004515661.1	Scaffold46	24539	GG	AA	1946917144
SNP_P4_112197_24545	NW_004515661.1	Scaffold46	24545	GG	AA	1946917146
SNP_P4_112198_27943	NW_004515661.1	Scaffold46	27943	TT	CC	1946917148
SNP_P4_112199_28250	NW_004515661.1	Scaffold46	28250	CC	TT	1946917150
SNP_P4_112200_28438	NW_004515661.1	Scaffold46	28438	TT	CC	1946917152
SNP_P4_112201_32873	NW_004515661.1	Scaffold46	32873	TT	CC	1946917154
SNP_P4_112202_32917	NW_004515661.1	Scaffold46	32917	GG	CC	1946917156

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_112203_33201	NW_004515661.1	Scaffold46	33201	AA	GG	1946917158
SNP_P4_112204_33336	NW_004515661.1	Scaffold46	33336	TT	GG	1946917160
SNP_P4_112205_33632	NW_004515661.1	Scaffold46	33632	GG	TT	1946917162
SNP_P4_112206_33650	NW_004515661.1	Scaffold46	33650	CC	AA	1946917164
SNP_P4_112207_34172	NW_004515661.1	Scaffold46	34172	AA	GG	1946917166
SNP_P4_112208_34390	NW_004515661.1	Scaffold46	34390	TT	CC	1946917168
SNP_P4_112209_34399	NW_004515661.1	Scaffold46	34399	CC	TT	1946917170
SNP_P4_112210_34422	NW_004515661.1	Scaffold46	34422	TT	GG	1946917172
SNP_P4_112211_34517	NW_004515661.1	Scaffold46	34517	CC	TT	1946917174
SNP_P4_112212_34526	NW_004515661.1	Scaffold46	34526	CC	TT	1946917176
SNP_P4_112213_34716	NW_004515661.1	Scaffold46	34716	CC	TT	1946917178
SNP_P4_112214_34717	NW_004515661.1	Scaffold46	34717	AA	GG	1946917180
SNP_P4_112215_34740	NW_004515661.1	Scaffold46	34740	GG	CC	1946917182
SNP_P4_112216_38926	NW_004515661.1	Scaffold46	38926	TT	CC	1946917185
SNP_P4_112217_39040	NW_004515661.1	Scaffold46	39040	CC	AA	1946917187
SNP_P4_112218_39045	NW_004515661.1	Scaffold46	39045	TT	CC	1946917189
SNP_P4_112219_39438	NW_004515661.1	Scaffold46	39438	CC	AA	1946917191
SNP_P4_112220_39470	NW_004515661.1	Scaffold46	39470	CC	TT	1946917193
SNP_P4_112221_39593	NW_004515661.1	Scaffold46	39593	AA	CC	1946917195
SNP_P4_112222_39631	NW_004515661.1	Scaffold46	39631	AA	GG	1946917197
SNP_P4_112223_39657	NW_004515661.1	Scaffold46	39657	TT	CC	1946917199
SNP_P4_112225_39855	NW_004515661.1	Scaffold46	39855	CC	GG	1946917201
SNP_P4_112226_40004	NW_004515661.1	Scaffold46	40004	TT	CC	1946917203
SNP_P4_112227_40015	NW_004515661.1	Scaffold46	40015	TT	CC	1946917205
SNP_P4_112228_40089	NW_004515661.1	Scaffold46	40089	CC	AA	1946917207
SNP_P4_112229_40122	NW_004515661.1	Scaffold46	40122	GG	CC	1946917209
SNP_P4_112230_40132	NW_004515661.1	Scaffold46	40132	GG	CC	1946917211
SNP_P4_112231_40236	NW_004515661.1	Scaffold46	40236	AA	GG	1946917213
SNP_P4_112232_40248	NW_004515661.1	Scaffold46	40248	AA	GG	1946917216
SNP_P4_112234_41071	NW_004515661.1	Scaffold46	41071	CC	GG	1946917218
SNP_P4_112235_41094	NW_004515661.1	Scaffold46	41094	TT	CC	1946917220
SNP_P4_112236_41115	NW_004515661.1	Scaffold46	41115	CC	TT	1946917222
SNP_P4_112237_41127	NW_004515661.1	Scaffold46	41127	TT	AA	1946917224
SNP_P4_112238_41896	NW_004515661.1	Scaffold46	41896	CC	TT	1946917226
SNP_P4_112239_42056	NW_004515661.1	Scaffold46	42056	TT	CC	1946917228
SNP_P4_112240_42111	NW_004515661.1	Scaffold46	42111	TT	CC	1946917230
SNP_P4_112241_42309	NW_004515661.1	Scaffold46	42309	CC	AA	1946917232
SNP_P4_112242_7738	NW_004515662.1	Scaffold48	7738	AA	TT	1946917234
SNP_P4_112243_8017	NW_004515662.1	Scaffold48	8017	GG	TT	1946917236
SNP_P4_112244_8067	NW_004515662.1	Scaffold48	8067	GG	TT	1946917238
SNP_P4_112245_8391	NW_004515662.1	Scaffold48	8391	GG	AA	1946917240
SNP_P4_112246_10032	NW_004515662.1	Scaffold48	10032	CC	GG	1946917242

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_112248_11789	NW_004515662.1	Scaffold48	11789	TT	AA	1946917246
SNP_P4_112250_11918	NW_004515662.1	Scaffold48	11918	GG	AA	1946917248
SNP_P4_112251_13056	NW_004515662.1	Scaffold48	13056	GG	AA	1946917250
SNP_P4_112253_15977	NW_004515662.1	Scaffold48	15977	CC	TT	1946917252
SNP_P4_112255_16024	NW_004515662.1	Scaffold48	16024	CC	TT	1946917254
SNP_P4_112256_16081	NW_004515662.1	Scaffold48	16081	CC	AA	1946917256
SNP_P4_112257_16156	NW_004515662.1	Scaffold48	16156	AA	GG	1946917258
SNP_P4_112259_24829	NW_004515662.1	Scaffold48	24829	CC	TT	1946917260
SNP_P4_112260_39333	NW_004515662.1	Scaffold48	39333	AA	GG	1946917262
SNP_P4_112261_56619	NW_004515662.1	Scaffold48	56619	AA	GG	1946917264
SNP_P4_112262_56664	NW_004515662.1	Scaffold48	56664	GG	AA	1946917266
SNP_P4_112263_56847	NW_004515662.1	Scaffold48	56847	TT	GG	1946917268
SNP_P4_112265_112635	NW_004515662.1	Scaffold48	112635	TT	GG	1946917270
SNP_P4_112266_112641	NW_004515662.1	Scaffold48	112641	CC	TT	1946917272
SNP_P4_112267_112643	NW_004515662.1	Scaffold48	112643	AA	GG	1946917274
SNP_P4_112268_140695	NW_004515662.1	Scaffold48	140695	TT	AA	1946917276
SNP_P4_112269_140913	NW_004515662.1	Scaffold48	140913	TT	CC	1946917278
SNP_P4_112270_140917	NW_004515662.1	Scaffold48	140917	AA	GG	1946917280
SNP_P4_112271_140926	NW_004515662.1	Scaffold48	140926	TT	CC	1946917282
SNP_P4_112272_140939	NW_004515662.1	Scaffold48	140939	CC	AA	1946917284
SNP_P4_112273_140943	NW_004515662.1	Scaffold48	140943	GG	AA	1946917286
SNP_P4_112274_140946	NW_004515662.1	Scaffold48	140946	AA	GG	1946917288
SNP_P4_112275_141081	NW_004515662.1	Scaffold48	141081	TT	CC	1946917290
SNP_P4_112276_141133	NW_004515662.1	Scaffold48	141133	TT	CC	1946917292
SNP_P4_112277_141134	NW_004515662.1	Scaffold48	141134	AA	GG	1946917294
SNP_P4_112278_147822	NW_004515662.1	Scaffold48	147822	TT	CC	1946917297
SNP_P4_112279_173688	NW_004515662.1	Scaffold48	173688	TT	CC	1946917299
SNP_P4_112281_205071	NW_004515662.1	Scaffold48	205071	GG	TT	1946917301
SNP_P4_112282_214503	NW_004515662.1	Scaffold48	214503	AA	TT	1946917303
SNP_P4_112283_214504	NW_004515662.1	Scaffold48	214504	AA	GG	1946917305
SNP_P4_112284_214547	NW_004515662.1	Scaffold48	214547	TT	GG	1946917307
SNP_P4_112285_214563	NW_004515662.1	Scaffold48	214563	TT	GG	1946917309
SNP_P4_112287_260406	NW_004515662.1	Scaffold48	260406	CC	TT	1946917311
SNP_P4_112288_284038	NW_004515662.1	Scaffold48	284038	GG	AA	1946917313
SNP_P4_112290_326364	NW_004515662.1	Scaffold48	326364	AA	CC	1946917315
SNP_P4_112291_326387	NW_004515662.1	Scaffold48	326387	TT	GG	1946917317
SNP_P4_112292_357985	NW_004515662.1	Scaffold48	357985	GG	AA	1946917319
SNP_P4_112293_381537	NW_004515662.1	Scaffold48	381537	GG	TT	1946917321
SNP_P4_112294_381557	NW_004515662.1	Scaffold48	381557	CC	TT	1946917323
SNP_P4_112295_390422	NW_004515662.1	Scaffold48	390422	CC	TT	1946917325
SNP_P4_112296_397107	NW_004515662.1	Scaffold48	397107	CC	TT	1946917327

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_112297_397113	NW_004515662.1	Scaffold48	397113	TT	CC	1946917329
SNP_P4_112298_397123	NW_004515662.1	Scaffold48	397123	AA	GG	1946917331
SNP_P4_112299_397139	NW_004515662.1	Scaffold48	397139	AA	CC	1946917333
SNP_P4_112300_397154	NW_004515662.1	Scaffold48	397154	TT	CC	1946917335
SNP_P4_112301_422282	NW_004515662.1	Scaffold48	422282	CC	TT	1946917337
SNP_P4_112302_431923	NW_004515662.1	Scaffold48	431923	TT	CC	1946917339
SNP_P4_112303_431939	NW_004515662.1	Scaffold48	431939	AA	GG	1946917341
SNP_P4_112304_431955	NW_004515662.1	Scaffold48	431955	CC	AA	1946917343
SNP_P4_112305_438765	NW_004515662.1	Scaffold48	438765	AA	GG	1946917345
SNP_P4_112306_461170	NW_004515662.1	Scaffold48	461170	TT	AA	1946917348
SNP_P4_112307_595	NW_004515663.1	Scaffold49	595	AA	CC	1946917350
SNP_P4_112308_626	NW_004515663.1	Scaffold49	626	TT	AA	1946917352
SNP_P4_112309_2644	NW_004515664.1	Scaffold50	2644	GG	AA	1946917354
SNP_P4_112310_2965	NW_004515664.1	Scaffold50	2965	GG	AA	1946917356
SNP_P4_112312_3533	NW_004515664.1	Scaffold50	3533	CC	TT	1946917358
SNP_P4_112313_5734	NW_004515664.1	Scaffold50	5734	CC	AA	1946917360
SNP_P4_112314_5827	NW_004515664.1	Scaffold50	5827	CC	TT	1946917362
SNP_P4_112315_5916	NW_004515664.1	Scaffold50	5916	CC	TT	1946917364
SNP_P4_112316_5980	NW_004515664.1	Scaffold50	5980	AA	GG	1946917366
SNP_P4_112317_6089	NW_004515664.1	Scaffold50	6089	TT	CC	1946917369
SNP_P4_112318_6106	NW_004515664.1	Scaffold50	6106	CC	TT	1946917371
SNP_P4_112319_6282	NW_004515664.1	Scaffold50	6282	AA	GG	1946917373
SNP_P4_112320_7021	NW_004515664.1	Scaffold50	7021	AA	CC	1946917375
SNP_P4_112321_9214	NW_004515664.1	Scaffold50	9214	CC	TT	1946917378
SNP_P4_112322_9253	NW_004515664.1	Scaffold50	9253	CC	TT	1946917380
SNP_P4_112323_9510	NW_004515664.1	Scaffold50	9510	AA	CC	1946917382
SNP_P4_112324_9555	NW_004515664.1	Scaffold50	9555	CC	TT	1946917384
SNP_P4_112325_9568	NW_004515664.1	Scaffold50	9568	TT	AA	1946917386
SNP_P4_112326_10770	NW_004515664.1	Scaffold50	10770	GG	AA	1946917388
SNP_P4_112327_10776	NW_004515664.1	Scaffold50	10776	GG	AA	1946917390
SNP_P4_112328_12096	NW_004515664.1	Scaffold50	12096	AA	TT	1946917392
SNP_P4_112329_12168	NW_004515664.1	Scaffold50	12168	AA	GG	1946917394
SNP_P4_112330_12222	NW_004515664.1	Scaffold50	12222	GG	CC	1946917396
SNP_P4_112331_15742	NW_004515664.1	Scaffold50	15742	AA	CC	1946917398
SNP_P4_112332_16537	NW_004515664.1	Scaffold50	16537	TT	CC	1946917400
SNP_P4_112333_16540	NW_004515664.1	Scaffold50	16540	CC	GG	1946917402
SNP_P4_112334_17789	NW_004515664.1	Scaffold50	17789	TT	AA	1946917404
SNP_P4_112335_17804	NW_004515664.1	Scaffold50	17804	AA	TT	1946917407
SNP_P4_112336_18326	NW_004515664.1	Scaffold50	18326	TT	CC	1946917409
SNP_P4_112337_18339	NW_004515664.1	Scaffold50	18339	GG	AA	1946917411
SNP_P4_112338_18340	NW_004515664.1	Scaffold50	18340	TT	CC	1946917413
SNP_P4_112339_18357	NW_004515664.1	Scaffold50	18357	CC	AA	1946917415

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_112340_18392	NW_004515664.1	Scaffold50	18392	AA	TT	1946917417
SNP_P4_112341_18549	NW_004515664.1	Scaffold50	18549	AA	CC	1946917419
SNP_P4_112342_46369	NW_004515664.1	Scaffold50	46369	TT	CC	1946917421
SNP_P4_112343_46468	NW_004515664.1	Scaffold50	46468	CC	AA	1946917423
SNP_P4_112344_46632	NW_004515664.1	Scaffold50	46632	AA	CC	1946917425
SNP_P4_112345_46805	NW_004515664.1	Scaffold50	46805	GG	AA	1946917427
SNP_P4_112346_46817	NW_004515664.1	Scaffold50	46817	AA	TT	1946917429
SNP_P4_112347_46860	NW_004515664.1	Scaffold50	46860	TT	CC	1946917431
SNP_P4_112348_46875	NW_004515664.1	Scaffold50	46875	AA	GG	1946917433
SNP_P4_112349_46885	NW_004515664.1	Scaffold50	46885	CC	AA	1946917435
SNP_P4_112350_46901	NW_004515664.1	Scaffold50	46901	TT	CC	1946917437
SNP_P4_112351_46911	NW_004515664.1	Scaffold50	46911	AA	TT	1946917439
SNP_P4_112352_84502	NW_004515664.1	Scaffold50	84502	TT	CC	1946917441
SNP_P4_112354_105721	NW_004515664.1	Scaffold50	105721	TT	CC	1946917443
SNP_P4_112355_133001	NW_004515664.1	Scaffold50	133001	TT	GG	1946917445
SNP_P4_112356_133973	NW_004515664.1	Scaffold50	133973	CC	AA	1946917447
SNP_P4_112357_161690	NW_004515664.1	Scaffold50	161690	AA	GG	1946917449
SNP_P4_112359_181597	NW_004515664.1	Scaffold50	181597	AA	TT	1946917451
SNP_P4_112360_191340	NW_004515664.1	Scaffold50	191340	CC	TT	1946917453
SNP_P4_112361_191709	NW_004515664.1	Scaffold50	191709	AA	CC	1946917455
SNP_P4_112362_191760	NW_004515664.1	Scaffold50	191760	AA	GG	1946917457
SNP_P4_112363_191790	NW_004515664.1	Scaffold50	191790	AA	GG	1946917459
SNP_P4_112364_191803	NW_004515664.1	Scaffold50	191803	GG	AA	1946917461
SNP_P4_112368_193609	NW_004515664.1	Scaffold50	193609	TT	CC	1946917463
SNP_P4_112369_194061	NW_004515664.1	Scaffold50	194061	CC	AA	1946917466
SNP_P4_112371_195736	NW_004515664.1	Scaffold50	195736	AA	GG	1946917468
SNP_P4_112372_195777	NW_004515664.1	Scaffold50	195777	AA	GG	1946917470
SNP_P4_112373_195800	NW_004515664.1	Scaffold50	195800	AA	GG	1946917472
SNP_P4_112374_196010	NW_004515664.1	Scaffold50	196010	CC	AA	1946917474
SNP_P4_112375_196015	NW_004515664.1	Scaffold50	196015	CC	AA	1946917476
SNP_P4_112376_196016	NW_004515664.1	Scaffold50	196016	CC	TT	1946917478
SNP_P4_112377_196017	NW_004515664.1	Scaffold50	196017	CC	GG	1946917480
SNP_P4_112378_196024	NW_004515664.1	Scaffold50	196024	TT	CC	1946917482
SNP_P4_112379_196026	NW_004515664.1	Scaffold50	196026	TT	AA	1946917484
SNP_P4_112380_196032	NW_004515664.1	Scaffold50	196032	TT	AA	1946917487
SNP_P4_112381_196033	NW_004515664.1	Scaffold50	196033	TT	AA	1946917489
SNP_P4_112383_196127	NW_004515664.1	Scaffold50	196127	GG	TT	1946917491
SNP_P4_112384_196162	NW_004515664.1	Scaffold50	196162	AA	GG	1946917493
SNP_P4_112385_201610	NW_004515664.1	Scaffold50	201610	AA	CC	1946917495
SNP_P4_112386_201660	NW_004515664.1	Scaffold50	201660	AA	CC	1946917497
SNP_P4_112387_201675	NW_004515664.1	Scaffold50	201675	AA	GG	1946917499
SNP_P4_112388_201730	NW_004515664.1	Scaffold50	201730	AA	GG	1946917501

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_112390_202129	NW_004515664.1	Scaffold50	202129	CC	GG	1946917505
SNP_P4_112391_202172	NW_004515664.1	Scaffold50	202172	TT	CC	1946917507
SNP_P4_112392_202233	NW_004515664.1	Scaffold50	202233	GG	CC	1946917509
SNP_P4_112394_249455	NW_004515664.1	Scaffold50	249455	GG	TT	1946917511
SNP_P4_112396_307881	NW_004515664.1	Scaffold50	307881	CC	TT	1946917514
SNP_P4_112397_323228	NW_004515664.1	Scaffold50	323228	GG	AA	1946917516
SNP_P4_112399_336562	NW_004515664.1	Scaffold50	336562	GG	AA	1946917518
SNP_P4_112400_336582	NW_004515664.1	Scaffold50	336582	TT	AA	1946917520
SNP_P4_112401_336899	NW_004515664.1	Scaffold50	336899	GG	AA	1946917522
SNP_P4_112403_376924	NW_004515664.1	Scaffold50	376924	TT	CC	1946917525
SNP_P4_112404_379062	NW_004515664.1	Scaffold50	379062	GG	AA	1946917527
SNP_P4_112405_382302	NW_004515664.1	Scaffold50	382302	TT	AA	1946917529
SNP_P4_112407_423452	NW_004515664.1	Scaffold50	423452	CC	TT	1946917531
SNP_P4_112408_423492	NW_004515664.1	Scaffold50	423492	AA	GG	1946917533
SNP_P4_112409_423511	NW_004515664.1	Scaffold50	423511	AA	GG	1946917536
SNP_P4_112410_436188	NW_004515664.1	Scaffold50	436188	CC	TT	1946917538
SNP_P4_112411_436981	NW_004515664.1	Scaffold50	436981	GG	AA	1946917540
SNP_P4_112412_437005	NW_004515664.1	Scaffold50	437005	AA	TT	1946917543
SNP_P4_112413_437010	NW_004515664.1	Scaffold50	437010	AA	GG	1946917545
SNP_P4_112414_437124	NW_004515664.1	Scaffold50	437124	TT	CC	1946917547
SNP_P4_112415_437131	NW_004515664.1	Scaffold50	437131	AA	GG	1946917549
SNP_P4_112416_437145	NW_004515664.1	Scaffold50	437145	AA	CC	1946917551
SNP_P4_112417_437338	NW_004515664.1	Scaffold50	437338	AA	GG	1946917553
SNP_P4_112418_437352	NW_004515664.1	Scaffold50	437352	TT	CC	1946917555
SNP_P4_112419_437410	NW_004515664.1	Scaffold50	437410	CC	TT	1946917557
SNP_P4_112420_437471	NW_004515664.1	Scaffold50	437471	CC	TT	1946917559
SNP_P4_112421_437519	NW_004515664.1	Scaffold50	437519	GG	AA	1946917561
SNP_P4_112422_456346	NW_004515664.1	Scaffold50	456346	AA	GG	1946917564
SNP_P4_112423_464038	NW_004515664.1	Scaffold50	464038	GG	AA	1946917566
SNP_P4_112424_466542	NW_004515664.1	Scaffold50	466542	CC	TT	1946917568
SNP_P4_112425_471275	NW_004515664.1	Scaffold50	471275	AA	CC	1946917570
SNP_P4_112426_142	NW_004515665.1	Scaffold53	142	TT	CC	1946917572
SNP_P4_112427_562	NW_004515665.1	Scaffold53	562	TT	CC	1946917574
SNP_P4_112428_577	NW_004515665.1	Scaffold53	577	CC	TT	1946917576
SNP_P4_112429_590	NW_004515665.1	Scaffold53	590	GG	AA	1946917578
SNP_P4_112430_914	NW_004515665.1	Scaffold53	914	TT	AA	1946917580
SNP_P4_112431_915	NW_004515665.1	Scaffold53	915	GG	CC	1946917582
SNP_P4_112432_2014	NW_004515665.1	Scaffold53	2014	TT	CC	1946917585
SNP_P4_112434_2211	NW_004515665.1	Scaffold53	2211	TT	AA	1946917587
SNP_P4_112435_2225	NW_004515665.1	Scaffold53	2225	TT	CC	1946917589
SNP_P4_112436_2295	NW_004515665.1	Scaffold53	2295	TT	CC	1946917591

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_112437_2327	NW_004515665.1	Scaffold53	2327	TT	CC	1946917593
SNP_P4_112438_27301	NW_004515665.1	Scaffold53	27301	CC	TT	1946917595
SNP_P4_112439_31508	NW_004515665.1	Scaffold53	31508	CC	AA	1946917597
SNP_P4_112441_103821	NW_004515665.1	Scaffold53	103821	GG	CC	1946917599
SNP_P4_112442_104118	NW_004515665.1	Scaffold53	104118	CC	AA	1946917601
SNP_P4_112443_124471	NW_004515665.1	Scaffold53	124471	CC	TT	1946917603
SNP_P4_112444_124864	NW_004515665.1	Scaffold53	124864	TT	AA	1946917605
SNP_P4_112445_124905	NW_004515665.1	Scaffold53	124905	CC	AA	1946917607
SNP_P4_112446_124925	NW_004515665.1	Scaffold53	124925	CC	AA	1946917609
SNP_P4_112447_125222	NW_004515665.1	Scaffold53	125222	AA	GG	1946917611
SNP_P4_112448_125254	NW_004515665.1	Scaffold53	125254	AA	TT	1946917614
SNP_P4_112449_125295	NW_004515665.1	Scaffold53	125295	AA	GG	1946917616
SNP_P4_112450_125356	NW_004515665.1	Scaffold53	125356	AA	CC	1946917618
SNP_P4_112451_126845	NW_004515665.1	Scaffold53	126845	GG	AA	1946917620
SNP_P4_112452_126857	NW_004515665.1	Scaffold53	126857	AA	GG	1946917622
SNP_P4_112453_126868	NW_004515665.1	Scaffold53	126868	GG	AA	1946917624
SNP_P4_112454_126875	NW_004515665.1	Scaffold53	126875	AA	TT	1946917626
SNP_P4_112455_126892	NW_004515665.1	Scaffold53	126892	GG	AA	1946917628
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SNP_P4_112457_126946	NW_004515665.1	Scaffold53	126946	AA	GG	1946917632
SNP_P4_112458_126973	NW_004515665.1	Scaffold53	126973	CC	TT	1946917634
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SNP_P4_112462_127506	NW_004515665.1	Scaffold53	127506	AA	GG	1946917642
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SNP_P4_112464_132317	NW_004515665.1	Scaffold53	132317	AA	GG	1946917646
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SNP_P4_112466_133951	NW_004515665.1	Scaffold53	133951	TT	GG	1946917650
SNP_P4_112467_134418	NW_004515665.1	Scaffold53	134418	CC	TT	1946917652
SNP_P4_112468_135738	NW_004515665.1	Scaffold53	135738	AA	TT	1946917654
SNP_P4_112469_136111	NW_004515665.1	Scaffold53	136111	TT	AA	1946917656
SNP_P4_112471_140897	NW_004515665.1	Scaffold53	140897	GG	AA	1946917658
SNP_P4_112472_140903	NW_004515665.1	Scaffold53	140903	CC	TT	1946917660
SNP_P4_112474_433	NW_004515667.1	Scaffold56	433	AA	GG	1946917662
SNP_P4_112476_1832	NW_004515667.1	Scaffold56	1832	GG	CC	1946917664
SNP_P4_112477_2003	NW_004515667.1	Scaffold56	2003	GG	CC	1946917666
SNP_P4_112478_2004	NW_004515667.1	Scaffold56	2004	TT	AA	1946917668
SNP_P4_112479_2006	NW_004515667.1	Scaffold56	2006	CC	GG	1946917670
SNP_P4_112480_2110	NW_004515667.1	Scaffold56	2110	CC	TT	1946917672
SNP_P4_112481_2230	NW_004515667.1	Scaffold56	2230	TT	AA	1946917674
SNP_P4_112482_2300	NW_004515667.1	Scaffold56	2300	CC	TT	1946917676

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_112484_2538	NW_004515667.1	Scaffold56	2538	AA	GG	1946917680
SNP_P4_112485_2561	NW_004515667.1	Scaffold56	2561	TT	CC	1946917682
SNP_P4_112486_2597	NW_004515667.1	Scaffold56	2597	AA	GG	1946917684
SNP_P4_112487_2655	NW_004515667.1	Scaffold56	2655	GG	AA	1946917686
SNP_P4_112488_3024	NW_004515667.1	Scaffold56	3024	TT	CC	1946917688
SNP_P4_112489_3074	NW_004515667.1	Scaffold56	3074	AA	TT	1946917690
SNP_P4_112490_3396	NW_004515667.1	Scaffold56	3396	TT	GG	1946917692
SNP_P4_112491_3434	NW_004515667.1	Scaffold56	3434	GG	AA	1946917694
SNP_P4_112492_3450	NW_004515667.1	Scaffold56	3450	CC	AA	1946917696
SNP_P4_112493_3476	NW_004515667.1	Scaffold56	3476	TT	AA	1946917698
SNP_P4_112494_3490	NW_004515667.1	Scaffold56	3490	CC	TT	1946917700
SNP_P4_112495_6692	NW_004515667.1	Scaffold56	6692	TT	CC	1946917702
SNP_P4_112496_12596	NW_004515667.1	Scaffold56	12596	AA	GG	1946917704
SNP_P4_112497_9305	NW_004515668.1	Scaffold62	9305	GG	AA	1946917706
SNP_P4_112498_9653	NW_004515668.1	Scaffold62	9653	AA	CC	1946917708
SNP_P4_112499_10501	NW_004515668.1	Scaffold62	10501	AA	GG	1946917710
SNP_P4_112500_10747	NW_004515668.1	Scaffold62	10747	CC	AA	1946917713
SNP_P4_112501_10753	NW_004515668.1	Scaffold62	10753	AA	CC	1946917715
SNP_P4_112502_11178	NW_004515668.1	Scaffold62	11178	TT	CC	1946917717
SNP_P4_112503_16013	NW_004515668.1	Scaffold62	16013	TT	AA	1946917719
SNP_P4_112504_16435	NW_004515668.1	Scaffold62	16435	TT	CC	1946917721
SNP_P4_112505_17932	NW_004515668.1	Scaffold62	17932	TT	GG	1946917723
SNP_P4_112506_18214	NW_004515668.1	Scaffold62	18214	CC	TT	1946917726
SNP_P4_112507_18238	NW_004515668.1	Scaffold62	18238	GG	TT	1946917727
SNP_P4_112508_18245	NW_004515668.1	Scaffold62	18245	GG	AA	1946917729
SNP_P4_112509_18261	NW_004515668.1	Scaffold62	18261	TT	GG	1946917731
SNP_P4_112510_20100	NW_004515668.1	Scaffold62	20100	AA	GG	1946917733
SNP_P4_112511_20338	NW_004515668.1	Scaffold62	20338	TT	AA	1946917735
SNP_P4_112512_20626	NW_004515668.1	Scaffold62	20626	TT	GG	1946917737
SNP_P4_112513_20684	NW_004515668.1	Scaffold62	20684	TT	GG	1946917739
SNP_P4_112514_20776	NW_004515668.1	Scaffold62	20776	AA	GG	1946917741
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SNP_P4_112517_45591	NW_004515668.1	Scaffold62	45591	AA	GG	1946917748
SNP_P4_112518_45600	NW_004515668.1	Scaffold62	45600	GG	TT	1946917750
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SNP_P4_112521_45674	NW_004515668.1	Scaffold62	45674	CC	TT	1946917756
SNP_P4_112522_48132	NW_004515668.1	Scaffold62	48132	CC	AA	1946917758
SNP_P4_112523_70122	NW_004515668.1	Scaffold62	70122	AA	GG	1946917760
SNP_P4_112524_80287	NW_004515668.1	Scaffold62	80287	CC	GG	1946917762

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_112526_81386	NW_004515668.1	Scaffold62	81386	TT	CC	1946917766
SNP_P4_112529_81856	NW_004515668.1	Scaffold62	81856	CC	TT	1946917768
SNP_P4_112530_81890	NW_004515668.1	Scaffold62	81890	GG	AA	1946917770
SNP_P4_112531_81916	NW_004515668.1	Scaffold62	81916	AA	GG	1946917772
SNP_P4_112532_95108	NW_004515668.1	Scaffold62	95108	TT	GG	1946917774
SNP_P4_112533_114915	NW_004515668.1	Scaffold62	114915	GG	AA	1946917776
SNP_P4_112534_119096	NW_004515668.1	Scaffold62	119096	TT	CC	1946917778
SNP_P4_112535_120547	NW_004515668.1	Scaffold62	120547	TT	CC	1946917780
SNP_P4_112536_125675	NW_004515668.1	Scaffold62	125675	GG	AA	1946917782
SNP_P4_112537_127817	NW_004515668.1	Scaffold62	127817	GG	AA	1946917784
SNP_P4_112538_129532	NW_004515668.1	Scaffold62	129532	CC	TT	1946917786
SNP_P4_112539_141246	NW_004515668.1	Scaffold62	141246	AA	GG	1946917788
SNP_P4_112540_141305	NW_004515668.1	Scaffold62	141305	AA	GG	1946917790
SNP_P4_112541_149283	NW_004515668.1	Scaffold62	149283	GG	AA	1946917792
SNP_P4_112542_149303	NW_004515668.1	Scaffold62	149303	GG	CC	1946917794
SNP_P4_112543_149340	NW_004515668.1	Scaffold62	149340	CC	GG	1946917796
SNP_P4_112544_149498	NW_004515668.1	Scaffold62	149498	GG	AA	1946917798
SNP_P4_112545_149852	NW_004515668.1	Scaffold62	149852	AA	GG	1946917800
SNP_P4_112546_149903	NW_004515668.1	Scaffold62	149903	AA	TT	1946917802
SNP_P4_112547_150018	NW_004515668.1	Scaffold62	150018	CC	TT	1946917804
SNP_P4_112548_150064	NW_004515668.1	Scaffold62	150064	CC	TT	1946917806
SNP_P4_112549_150120	NW_004515668.1	Scaffold62	150120	TT	AA	1946917808
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SNP_P4_112555_150988	NW_004515668.1	Scaffold62	150988	CC	TT	1946917814
SNP_P4_112556_150990	NW_004515668.1	Scaffold62	150990	AA	GG	1946917816
SNP_P4_112557_151030	NW_004515668.1	Scaffold62	151030	AA	GG	1946917818
SNP_P4_112558_151111	NW_004515668.1	Scaffold62	151111	TT	CC	1946917820
SNP_P4_112559_151129	NW_004515668.1	Scaffold62	151129	AA	GG	1946917823
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SNP_P4_112561_152052	NW_004515668.1	Scaffold62	152052	CC	TT	1946917827
SNP_P4_112562_153350	NW_004515668.1	Scaffold62	153350	AA	GG	1946917829
SNP_P4_112563_154059	NW_004515668.1	Scaffold62	154059	GG	TT	1946917831
SNP_P4_112564_154543	NW_004515668.1	Scaffold62	154543	TT	CC	1946917833
SNP_P4_112565_168503	NW_004515668.1	Scaffold62	168503	GG	AA	1946917835
SNP_P4_112566_171698	NW_004515668.1	Scaffold62	171698	GG	AA	1946917837
SNP_P4_112567_171709	NW_004515668.1	Scaffold62	171709	TT	GG	1946917839
SNP_P4_112568_171727	NW_004515668.1	Scaffold62	171727	AA	GG	1946917842
SNP_P4_112569_171886	NW_004515668.1	Scaffold62	171886	TT	CC	1946917844
SNP_P4_112570_175567	NW_004515668.1	Scaffold62	175567	GG	AA	1946917846
SNP_P4_112571_175923	NW_004515668.1	Scaffold62	175923	CC	TT	1946917848

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_112573_175925	NW_004515668.1	Scaffold62	175925	AA	TT	1946917852
SNP_P4_112574_176207	NW_004515668.1	Scaffold62	176207	AA	GG	1946917854
SNP_P4_112575_186612	NW_004515668.1	Scaffold62	186612	TT	AA	1946917856
SNP_P4_112576_186613	NW_004515668.1	Scaffold62	186613	GG	TT	1946917859
SNP_P4_112577_186805	NW_004515668.1	Scaffold62	186805	CC	TT	1946917861
SNP_P4_112578_205071	NW_004515668.1	Scaffold62	205071	AA	TT	1946917863
SNP_P4_112579_205123	NW_004515668.1	Scaffold62	205123	AA	GG	1946917865
SNP_P4_112580_205148	NW_004515668.1	Scaffold62	205148	TT	CC	1946917867
SNP_P4_112581_205151	NW_004515668.1	Scaffold62	205151	TT	CC	1946917870
SNP_P4_112582_205294	NW_004515668.1	Scaffold62	205294	CC	TT	1946917872
SNP_P4_112583_205314	NW_004515668.1	Scaffold62	205314	AA	TT	1946917874
SNP_P4_112584_205680	NW_004515668.1	Scaffold62	205680	GG	TT	1946917876
SNP_P4_112585_208908	NW_004515668.1	Scaffold62	208908	TT	CC	1946917878
SNP_P4_112586_208991	NW_004515668.1	Scaffold62	208991	AA	GG	1946917881
SNP_P4_112587_209167	NW_004515668.1	Scaffold62	209167	GG	AA	1946917883
SNP_P4_112588_209240	NW_004515668.1	Scaffold62	209240	CC	TT	1946917885
SNP_P4_112589_209241	NW_004515668.1	Scaffold62	209241	TT	AA	1946917887
SNP_P4_112590_209260	NW_004515668.1	Scaffold62	209260	TT	AA	1946917889
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SNP_P4_112594_209465	NW_004515668.1	Scaffold62	209465	AA	TT	1946917898
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SNP_P4_112596_212614	NW_004515668.1	Scaffold62	212614	AA	GG	1946917902
SNP_P4_112597_212616	NW_004515668.1	Scaffold62	212616	CC	TT	1946917904
SNP_P4_112598_212869	NW_004515668.1	Scaffold62	212869	GG	AA	1946917907
SNP_P4_112599_223662	NW_004515668.1	Scaffold62	223662	AA	CC	1946917909
SNP_P4_112600_224010	NW_004515668.1	Scaffold62	224010	TT	CC	1946917911
SNP_P4_112601_224021	NW_004515668.1	Scaffold62	224021	GG	AA	1946917913
SNP_P4_112602_224032	NW_004515668.1	Scaffold62	224032	CC	TT	1946917915
SNP_P4_112603_224033	NW_004515668.1	Scaffold62	224033	CC	AA	1946917918
SNP_P4_112604_228212	NW_004515668.1	Scaffold62	228212	AA	GG	1946917920
SNP_P4_112605_228281	NW_004515668.1	Scaffold62	228281	AA	CC	1946917922
SNP_P4_112606_228289	NW_004515668.1	Scaffold62	228289	TT	CC	1946917924
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SNP_P4_112608_228326	NW_004515668.1	Scaffold62	228326	AA	GG	1946917928
SNP_P4_112609_228331	NW_004515668.1	Scaffold62	228331	CC	TT	1946917930
SNP_P4_112610_228335	NW_004515668.1	Scaffold62	228335	CC	TT	1946917932
SNP_P4_112611_228345	NW_004515668.1	Scaffold62	228345	GG	AA	1946917934
SNP_P4_112612_228367	NW_004515668.1	Scaffold62	228367	GG	TT	1946917937
SNP_P4_112613_228368	NW_004515668.1	Scaffold62	228368	AA	CC	1946917939

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_112615_228516	NW_004515668.1	Scaffold62	228516	GG	TT	1946917943
SNP_P4_112616_228526	NW_004515668.1	Scaffold62	228526	TT	GG	1946917945
SNP_P4_112617_228692	NW_004515668.1	Scaffold62	228692	CC	TT	1946917947
SNP_P4_112618_228693	NW_004515668.1	Scaffold62	228693	AA	GG	1946917949
SNP_P4_112619_228702	NW_004515668.1	Scaffold62	228702	CC	AA	1946917951
SNP_P4_112620_228709	NW_004515668.1	Scaffold62	228709	GG	AA	1946917953
SNP_P4_112621_230121	NW_004515668.1	Scaffold62	230121	AA	GG	1946917955
SNP_P4_112622_230128	NW_004515668.1	Scaffold62	230128	TT	CC	1946917957
SNP_P4_112623_230151	NW_004515668.1	Scaffold62	230151	AA	GG	1946917959
SNP_P4_112624_230218	NW_004515668.1	Scaffold62	230218	CC	TT	1946917961
SNP_P4_112625_230219	NW_004515668.1	Scaffold62	230219	AA	GG	1946917963
SNP_P4_112626_230796	NW_004515668.1	Scaffold62	230796	AA	TT	1946917965
SNP_P4_112627_230809	NW_004515668.1	Scaffold62	230809	AA	GG	1946917967
SNP_P4_112628_240746	NW_004515668.1	Scaffold62	240746	AA	CC	1946917969
SNP_P4_112629_240823	NW_004515668.1	Scaffold62	240823	TT	AA	1946917971
SNP_P4_112630_240838	NW_004515668.1	Scaffold62	240838	GG	AA	1946917973
SNP_P4_112631_241091	NW_004515668.1	Scaffold62	241091	AA	TT	1946917975
SNP_P4_112632_241095	NW_004515668.1	Scaffold62	241095	AA	GG	1946917977
SNP_P4_112633_241112	NW_004515668.1	Scaffold62	241112	AA	GG	1946917979
SNP_P4_112634_241140	NW_004515668.1	Scaffold62	241140	CC	AA	1946917981
SNP_P4_112635_241174	NW_004515668.1	Scaffold62	241174	CC	TT	1946917983
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SNP_P4_112637_243592	NW_004515668.1	Scaffold62	243592	GG	TT	1946917987
SNP_P4_112638_243942	NW_004515668.1	Scaffold62	243942	AA	TT	1946917989
SNP_P4_112639_248612	NW_004515668.1	Scaffold62	248612	AA	CC	1946917991
SNP_P4_112640_248632	NW_004515668.1	Scaffold62	248632	AA	TT	1946917993
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SNP_P4_112642_248728	NW_004515668.1	Scaffold62	248728	GG	AA	1946917997
SNP_P4_112643_248753	NW_004515668.1	Scaffold62	248753	AA	CC	1946917999
SNP_P4_112644_248768	NW_004515668.1	Scaffold62	248768	TT	AA	1946918001
SNP_P4_112645_248789	NW_004515668.1	Scaffold62	248789	CC	GG	1946918003
SNP_P4_112646_248804	NW_004515668.1	Scaffold62	248804	CC	TT	1946918005
SNP_P4_112647_248805	NW_004515668.1	Scaffold62	248805	TT	GG	1946918008
SNP_P4_112648_248844	NW_004515668.1	Scaffold62	248844	TT	AA	1946918010
SNP_P4_112649_248847	NW_004515668.1	Scaffold62	248847	TT	AA	1946918012
SNP_P4_112650_248848	NW_004515668.1	Scaffold62	248848	GG	CC	1946918014
SNP_P4_112651_248849	NW_004515668.1	Scaffold62	248849	TT	AA	1946918016
SNP_P4_112652_249914	NW_004515668.1	Scaffold62	249914	TT	CC	1946918018
SNP_P4_112653_249934	NW_004515668.1	Scaffold62	249934	CC	TT	1946918020
SNP_P4_112654_250260	NW_004515668.1	Scaffold62	250260	AA	TT	1946918022
SNP_P4_112655_250286	NW_004515668.1	Scaffold62	250286	TT	CC	1946918024

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_112657_250299	NW_004515668.1	Scaffold62	250299	CC	TT	1946918028
SNP_P4_112658_250304	NW_004515668.1	Scaffold62	250304	GG	CC	1946918030
SNP_P4_112659_259305	NW_004515668.1	Scaffold62	259305	TT	CC	1946918032
SNP_P4_112660_259524	NW_004515668.1	Scaffold62	259524	TT	AA	1946918034
SNP_P4_112661_259527	NW_004515668.1	Scaffold62	259527	CC	TT	1946918037
SNP_P4_112662_260455	NW_004515668.1	Scaffold62	260455	CC	AA	1946918039
SNP_P4_112663_260497	NW_004515668.1	Scaffold62	260497	CC	TT	1946918041
SNP_P4_112664_260803	NW_004515668.1	Scaffold62	260803	CC	AA	1946918043
SNP_P4_112665_260830	NW_004515668.1	Scaffold62	260830	TT	AA	1946918045
SNP_P4_112666_261079	NW_004515668.1	Scaffold62	261079	AA	TT	1946918047
SNP_P4_112667_261211	NW_004515668.1	Scaffold62	261211	GG	AA	1946918050
SNP_P4_112668_261225	NW_004515668.1	Scaffold62	261225	TT	CC	1946918052
SNP_P4_112669_261483	NW_004515668.1	Scaffold62	261483	TT	GG	1946918054
SNP_P4_112670_261561	NW_004515668.1	Scaffold62	261561	AA	TT	1946918056
SNP_P4_112671_261564	NW_004515668.1	Scaffold62	261564	GG	AA	1946918058
SNP_P4_112672_261869	NW_004515668.1	Scaffold62	261869	TT	GG	1946918060
SNP_P4_112673_264484	NW_004515668.1	Scaffold62	264484	CC	TT	1946918062
SNP_P4_112674_266455	NW_004515668.1	Scaffold62	266455	TT	CC	1946918064
SNP_P4_112675_266493	NW_004515668.1	Scaffold62	266493	GG	CC	1946918066
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SNP_P4_112683_280709	NW_004515668.1	Scaffold62	280709	GG	AA	1946918082
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SNP_P4_112685_282369	NW_004515668.1	Scaffold62	282369	AA	CC	1946918086
SNP_P4_112686_283642	NW_004515668.1	Scaffold62	283642	AA	CC	1946918089
SNP_P4_112687_283650	NW_004515668.1	Scaffold62	283650	AA	TT	1946918091
SNP_P4_112688_283780	NW_004515668.1	Scaffold62	283780	CC	TT	1946918093
SNP_P4_112689_283784	NW_004515668.1	Scaffold62	283784	TT	AA	1946918095
SNP_P4_112690_283801	NW_004515668.1	Scaffold62	283801	AA	GG	1946918097
SNP_P4_112692_284049	NW_004515668.1	Scaffold62	284049	CC	TT	1946918099
SNP_P4_112693_284160	NW_004515668.1	Scaffold62	284160	GG	AA	1946918101
SNP_P4_112694_292616	NW_004515668.1	Scaffold62	292616	AA	GG	1946918103
SNP_P4_112695_327063	NW_004515668.1	Scaffold62	327063	AA	CC	1946918105
SNP_P4_112696_327077	NW_004515668.1	Scaffold62	327077	CC	TT	1946918107
SNP_P4_112697_333366	NW_004515668.1	Scaffold62	333366	GG	TT	1946918109
SNP_P4_112698_334132	NW_004515668.1	Scaffold62	334132	GG	TT	1946918111

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_112701_338648	NW_004515668.1	Scaffold62	338648	AA	TT	1946918117
SNP_P4_112703_343837	NW_004515668.1	Scaffold62	343837	GG	AA	1946918119
SNP_P4_112704_344829	NW_004515668.1	Scaffold62	344829	CC	TT	1946918121
SNP_P4_112705_350250	NW_004515668.1	Scaffold62	350250	AA	TT	1946918123
SNP_P4_112706_4051	NW_004515669.1	Scaffold63	4051	TT	AA	1946918125
SNP_P4_112707_4787	NW_004515669.1	Scaffold63	4787	AA	TT	1946918127
SNP_P4_112708_5540	NW_004515669.1	Scaffold63	5540	TT	AA	1946918129
SNP_P4_112709_5556	NW_004515669.1	Scaffold63	5556	TT	GG	1946918131
SNP_P4_112710_5587	NW_004515669.1	Scaffold63	5587	TT	AA	1946918133
SNP_P4_112711_5775	NW_004515669.1	Scaffold63	5775	GG	AA	1946918135
SNP_P4_112712_6798	NW_004515669.1	Scaffold63	6798	CC	GG	1946918137
SNP_P4_112713_6824	NW_004515669.1	Scaffold63	6824	AA	GG	1946918139
SNP_P4_112714_6838	NW_004515669.1	Scaffold63	6838	TT	CC	1946918141
SNP_P4_112715_6924	NW_004515669.1	Scaffold63	6924	TT	GG	1946918143
SNP_P4_112716_6933	NW_004515669.1	Scaffold63	6933	GG	TT	1946918145
SNP_P4_112717_16633	NW_004515669.1	Scaffold63	16633	GG	CC	1946918147
SNP_P4_112718_16810	NW_004515669.1	Scaffold63	16810	GG	TT	1946918149
SNP_P4_112719_19688	NW_004515669.1	Scaffold63	19688	AA	GG	1946918151
SNP_P4_112720_20430	NW_004515669.1	Scaffold63	20430	CC	TT	1946918153
SNP_P4_112721_20660	NW_004515669.1	Scaffold63	20660	GG	AA	1946918155
SNP_P4_112722_20855	NW_004515669.1	Scaffold63	20855	TT	CC	1946918157
SNP_P4_112723_20872	NW_004515669.1	Scaffold63	20872	TT	AA	1946918158
SNP_P4_112724_20877	NW_004515669.1	Scaffold63	20877	TT	GG	1946918159
SNP_P4_112725_20880	NW_004515669.1	Scaffold63	20880	TT	AA	1946918161
SNP_P4_112726_20905	NW_004515669.1	Scaffold63	20905	GG	CC	1946918163
SNP_P4_112727_20918	NW_004515669.1	Scaffold63	20918	GG	TT	1946918165
SNP_P4_112728_21024	NW_004515669.1	Scaffold63	21024	AA	GG	1946918167
SNP_P4_112729_21080	NW_004515669.1	Scaffold63	21080	GG	TT	1946918169
SNP_P4_112730_21212	NW_004515669.1	Scaffold63	21212	GG	TT	1946918171
SNP_P4_112731_21257	NW_004515669.1	Scaffold63	21257	GG	AA	1946918173
SNP_P4_112732_21300	NW_004515669.1	Scaffold63	21300	TT	GG	1946918175
SNP_P4_112733_21326	NW_004515669.1	Scaffold63	21326	AA	GG	1946918177
SNP_P4_112734_21330	NW_004515669.1	Scaffold63	21330	AA	GG	1946918179
SNP_P4_112735_21735	NW_004515669.1	Scaffold63	21735	AA	GG	1946918181
SNP_P4_112736_23008	NW_004515669.1	Scaffold63	23008	CC	TT	1946918183
SNP_P4_112737_23027	NW_004515669.1	Scaffold63	23027	AA	GG	1946918185
SNP_P4_112738_23057	NW_004515669.1	Scaffold63	23057	AA	GG	1946918187
SNP_P4_112739_23132	NW_004515669.1	Scaffold63	23132	CC	AA	1946918189
SNP_P4_112740_23211	NW_004515669.1	Scaffold63	23211	CC	TT	1946918191
SNP_P4_112741_23362	NW_004515669.1	Scaffold63	23362	TT	CC	1946918193

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_112744_26497	NW_004515669.1	Scaffold63	26497	AA	TT	1946918199
SNP_P4_112745_26503	NW_004515669.1	Scaffold63	26503	TT	AA	1946918201
SNP_P4_112746_36195	NW_004515669.1	Scaffold63	36195	TT	AA	1946918203
SNP_P4_112747_36288	NW_004515669.1	Scaffold63	36288	TT	AA	1946918205
SNP_P4_112748_36307	NW_004515669.1	Scaffold63	36307	TT	AA	1946918207
SNP_P4_112749_41886	NW_004515669.1	Scaffold63	41886	TT	CC	1946918209
SNP_P4_112750_41911	NW_004515669.1	Scaffold63	41911	AA	GG	1946918212
SNP_P4_112751_50341	NW_004515669.1	Scaffold63	50341	AA	GG	1946918214
SNP_P4_112752_50348	NW_004515669.1	Scaffold63	50348	AA	GG	1946918216
SNP_P4_112753_52111	NW_004515669.1	Scaffold63	52111	TT	AA	1946918218
SNP_P4_112754_52193	NW_004515669.1	Scaffold63	52193	AA	GG	1946918220
SNP_P4_112755_52210	NW_004515669.1	Scaffold63	52210	GG	AA	1946918222
SNP_P4_112756_52245	NW_004515669.1	Scaffold63	52245	CC	GG	1946918224
SNP_P4_112757_52246	NW_004515669.1	Scaffold63	52246	CC	AA	1946918226
SNP_P4_112758_52430	NW_004515669.1	Scaffold63	52430	CC	TT	1946918228
SNP_P4_112759_55002	NW_004515669.1	Scaffold63	55002	TT	GG	1946918230
SNP_P4_112760_58072	NW_004515669.1	Scaffold63	58072	CC	TT	1946918232
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SNP_P4_112763_59350	NW_004515669.1	Scaffold63	59350	AA	TT	1946918237
SNP_P4_112764_59395	NW_004515669.1	Scaffold63	59395	TT	AA	1946918239
SNP_P4_112765_59448	NW_004515669.1	Scaffold63	59448	AA	TT	1946918241
SNP_P4_112766_59672	NW_004515669.1	Scaffold63	59672	TT	CC	1946918243
SNP_P4_112767_63733	NW_004515669.1	Scaffold63	63733	GG	AA	1946918245
SNP_P4_112768_63959	NW_004515669.1	Scaffold63	63959	CC	TT	1946918247
SNP_P4_112769_64178	NW_004515669.1	Scaffold63	64178	GG	TT	1946918249
SNP_P4_112770_64180	NW_004515669.1	Scaffold63	64180	AA	TT	1946918251
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SNP_P4_112772_64620	NW_004515669.1	Scaffold63	64620	GG	TT	1946918255
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SNP_P4_112775_65073	NW_004515669.1	Scaffold63	65073	TT	GG	1946918261
SNP_P4_112777_68179	NW_004515669.1	Scaffold63	68179	AA	GG	1946918263
SNP_P4_112778_21009	NW_004515671.1	Scaffold71	21009	TT	CC	1946918265
SNP_P4_112779_21012	NW_004515671.1	Scaffold71	21012	CC	GG	1946918267
SNP_P4_112780_21024	NW_004515671.1	Scaffold71	21024	GG	TT	1946918269
SNP_P4_112781_21044	NW_004515671.1	Scaffold71	21044	CC	GG	1946918271
SNP_P4_112782_21144	NW_004515671.1	Scaffold71	21144	TT	CC	1946918273
SNP_P4_112783_21150	NW_004515671.1	Scaffold71	21150	AA	GG	1946918275
SNP_P4_112784_21270	NW_004515671.1	Scaffold71	21270	TT	CC	1946918277
SNP_P4_112785_21349	NW_004515671.1	Scaffold71	21349	AA	GG	1946918279

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_112788_25781	NW_004515671.1	Scaffold71	25781	AA	GG	1946918285
SNP_P4_112790_43446	NW_004515671.1	Scaffold71	43446	CC	TT	1946918287
SNP_P4_112791_52235	NW_004515671.1	Scaffold71	52235	CC	GG	1946918289
SNP_P4_112792_8277	NW_004515672.1	Scaffold72	8277	TT	CC	1946918291
SNP_P4_112793_8300	NW_004515672.1	Scaffold72	8300	TT	CC	1946918293
SNP_P4_112794_8635	NW_004515672.1	Scaffold72	8635	AA	CC	1946918295
SNP_P4_112795_8662	NW_004515672.1	Scaffold72	8662	AA	GG	1946918297
SNP_P4_112796_9832	NW_004515672.1	Scaffold72	9832	GG	AA	1946918299
SNP_P4_112797_9910	NW_004515672.1	Scaffold72	9910	GG	TT	1946918301
SNP_P4_112798_10300	NW_004515672.1	Scaffold72	10300	TT	CC	1946918303
SNP_P4_112799_10337	NW_004515672.1	Scaffold72	10337	TT	GG	1946918305
SNP_P4_112800_15250	NW_004515672.1	Scaffold72	15250	GG	TT	1946918307
SNP_P4_112801_15386	NW_004515672.1	Scaffold72	15386	AA	CC	1946918309
SNP_P4_112802_43072	NW_004515672.1	Scaffold72	43072	CC	TT	1946918311
SNP_P4_112803_902	NW_004515674.1	Scaffold74	902	GG	CC	1946918313
SNP_P4_112804_2366	NW_004515674.1	Scaffold74	2366	TT	AA	1946918315
SNP_P4_112805_2367	NW_004515674.1	Scaffold74	2367	AA	TT	1946918317
SNP_P4_112806_6667	NW_004515674.1	Scaffold74	6667	TT	GG	1946918319
SNP_P4_112807_13400	NW_004515674.1	Scaffold74	13400	CC	AA	1946918321
SNP_P4_112809_17451	NW_004515674.1	Scaffold74	17451	TT	AA	1946918323
SNP_P4_112810_17592	NW_004515674.1	Scaffold74	17592	AA	TT	1946918325
SNP_P4_112811_18030	NW_004515674.1	Scaffold74	18030	TT	AA	1946918327
SNP_P4_112812_19983	NW_004515674.1	Scaffold74	19983	AA	GG	1946918329
SNP_P4_112813_20258	NW_004515674.1	Scaffold74	20258	AA	CC	1946918331
SNP_P4_112814_30194	NW_004515674.1	Scaffold74	30194	AA	GG	1946918333
SNP_P4_112815_34299	NW_004515674.1	Scaffold74	34299	GG	AA	1946918335
SNP_P4_112816_34550	NW_004515674.1	Scaffold74	34550	GG	AA	1946918337
SNP_P4_112817_34636	NW_004515674.1	Scaffold74	34636	GG	AA	1946918339
SNP_P4_112818_40407	NW_004515674.1	Scaffold74	40407	GG	CC	1946918341
SNP_P4_112819_43257	NW_004515674.1	Scaffold74	43257	TT	AA	1946918343
SNP_P4_112820_55314	NW_004515674.1	Scaffold74	55314	CC	TT	1946918345
SNP_P4_112821_55380	NW_004515674.1	Scaffold74	55380	GG	AA	1946918347
SNP_P4_112822_55387	NW_004515674.1	Scaffold74	55387	AA	GG	1946918349
SNP_P4_112823_66292	NW_004515674.1	Scaffold74	66292	CC	AA	1946918351
SNP_P4_112824_66297	NW_004515674.1	Scaffold74	66297	CC	TT	1946918353
SNP_P4_112825_66300	NW_004515674.1	Scaffold74	66300	GG	TT	1946918355
SNP_P4_112826_66301	NW_004515674.1	Scaffold74	66301	TT	CC	1946918357
SNP_P4_112827_66307	NW_004515674.1	Scaffold74	66307	CC	GG	1946918359
SNP_P4_112828_66310	NW_004515674.1	Scaffold74	66310	GG	TT	1946918361
SNP_P4_112829_66314	NW_004515674.1	Scaffold74	66314	AA	TT	1946918363

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_112831_68927	NW_004515674.1	Scaffold74	68927	TT	AA	1946918367
SNP_P4_112832_70651	NW_004515674.1	Scaffold74	70651	CC	GG	1946918370
SNP_P4_112833_71935	NW_004515674.1	Scaffold74	71935	GG	TT	1946918372
SNP_P4_112834_72091	NW_004515674.1	Scaffold74	72091	AA	CC	1946918374
SNP_P4_112835_72264	NW_004515674.1	Scaffold74	72264	AA	CC	1946918376
SNP_P4_112836_72269	NW_004515674.1	Scaffold74	72269	TT	CC	1946918378
SNP_P4_112837_72272	NW_004515674.1	Scaffold74	72272	TT	AA	1946918380
SNP_P4_112838_72273	NW_004515674.1	Scaffold74	72273	CC	TT	1946918382
SNP_P4_112839_72279	NW_004515674.1	Scaffold74	72279	GG	TT	1946918384
SNP_P4_112840_72280	NW_004515674.1	Scaffold74	72280	AA	GG	1946918386
SNP_P4_112841_86574	NW_004515674.1	Scaffold74	86574	AA	TT	1946918388
SNP_P4_112842_95604	NW_004515674.1	Scaffold74	95604	AA	TT	1946918390
SNP_P4_112843_64	NW_004515675.1	Scaffold76	64	TT	CC	1946918392
SNP_P4_112845_266	NW_004515675.1	Scaffold76	266	CC	TT	1946918394
SNP_P4_112846_43083	NW_004515676.1	Scaffold80	43083	TT	CC	1946918396
SNP_P4_112847_43193	NW_004515676.1	Scaffold80	43193	TT	CC	1946918398
SNP_P4_112849_56015	NW_004515676.1	Scaffold80	56015	AA	GG	1946918400
SNP_P4_112850_56184	NW_004515676.1	Scaffold80	56184	AA	GG	1946918402
SNP_P4_112851_56186	NW_004515676.1	Scaffold80	56186	TT	CC	1946918404
SNP_P4_112852_56617	NW_004515676.1	Scaffold80	56617	CC	TT	1946918406
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SNP_P4_112855_56758	NW_004515676.1	Scaffold80	56758	TT	CC	1946918412
SNP_P4_112856_56850	NW_004515676.1	Scaffold80	56850	TT	GG	1946918414
SNP_P4_112858_63891	NW_004515676.1	Scaffold80	63891	TT	GG	1946918416
SNP_P4_112859_66259	NW_004515676.1	Scaffold80	66259	CC	GG	1946918418
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SNP_P4_112861_66429	NW_004515676.1	Scaffold80	66429	AA	TT	1946918422
SNP_P4_112862_70103	NW_004515676.1	Scaffold80	70103	AA	GG	1946918424
SNP_P4_112863_79057	NW_004515676.1	Scaffold80	79057	TT	CC	1946918426
SNP_P4_112864_83415	NW_004515676.1	Scaffold80	83415	CC	TT	1946918428
SNP_P4_112865_83424	NW_004515676.1	Scaffold80	83424	AA	GG	1946918430
SNP_P4_112866_89909	NW_004515676.1	Scaffold80	89909	TT	GG	1946918432
SNP_P4_112867_89928	NW_004515676.1	Scaffold80	89928	GG	AA	1946918434
SNP_P4_112868_90170	NW_004515676.1	Scaffold80	90170	CC	TT	1946918436
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SNP_P4_112870_90207	NW_004515676.1	Scaffold80	90207	AA	GG	1946918441
SNP_P4_112871_90234	NW_004515676.1	Scaffold80	90234	TT	AA	1946918443
SNP_P4_112873_101613	NW_004515676.1	Scaffold80	101613	GG	TT	1946918445
SNP_P4_112874_101664	NW_004515676.1	Scaffold80	101664	TT	CC	1946918447
SNP_P4_112875_101774	NW_004515676.1	Scaffold80	101774	AA	GG	1946918449

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_112877_101895	NW_004515676.1	Scaffold80	101895	CC	GG	1946918453
SNP_P4_112878_119925	NW_004515676.1	Scaffold80	119925	TT	CC	1946918455
SNP_P4_112879_125465	NW_004515676.1	Scaffold80	125465	TT	AA	1946918457
SNP_P4_112880_134445	NW_004515676.1	Scaffold80	134445	GG	TT	1946918459
SNP_P4_112881_134458	NW_004515676.1	Scaffold80	134458	CC	TT	1946918461
SNP_P4_112882_134476	NW_004515676.1	Scaffold80	134476	AA	TT	1946918463
SNP_P4_112883_134499	NW_004515676.1	Scaffold80	134499	GG	AA	1946918465
SNP_P4_112884_144065	NW_004515676.1	Scaffold80	144065	AA	TT	1946918467
SNP_P4_112885_144098	NW_004515676.1	Scaffold80	144098	TT	CC	1946918469
SNP_P4_112886_144171	NW_004515676.1	Scaffold80	144171	CC	AA	1946918471
SNP_P4_112887_144212	NW_004515676.1	Scaffold80	144212	AA	TT	1946918473
SNP_P4_112888_144426	NW_004515676.1	Scaffold80	144426	AA	GG	1946918475
SNP_P4_112889_144466	NW_004515676.1	Scaffold80	144466	CC	TT	1946918477
SNP_P4_112890_150705	NW_004515676.1	Scaffold80	150705	TT	GG	1946918479
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SNP_P4_112892_150754	NW_004515676.1	Scaffold80	150754	TT	CC	1946918483
SNP_P4_112893_150774	NW_004515676.1	Scaffold80	150774	TT	CC	1946918485
SNP_P4_112894_150908	NW_004515676.1	Scaffold80	150908	AA	GG	1946918487
SNP_P4_112895_151148	NW_004515676.1	Scaffold80	151148	AA	CC	1946918489
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SNP_P4_112904_191309	NW_004515676.1	Scaffold80	191309	GG	TT	1946918505
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SNP_P4_112908_273141	NW_004515676.1	Scaffold80	273141	GG	AA	1946918509
SNP_P4_112909_273519	NW_004515676.1	Scaffold80	273519	AA	GG	1946918511
SNP_P4_112910_277646	NW_004515676.1	Scaffold80	277646	TT	CC	1946918513
SNP_P4_112912_331838	NW_004515676.1	Scaffold80	331838	AA	GG	1946918515
SNP_P4_112913_331851	NW_004515676.1	Scaffold80	331851	AA	GG	1946918517
SNP_P4_112914_332274	NW_004515676.1	Scaffold80	332274	GG	AA	1946918519
SNP_P4_112915_332302	NW_004515676.1	Scaffold80	332302	AA	GG	1946918521
SNP_P4_112916_345260	NW_004515676.1	Scaffold80	345260	TT	CC	1946918523
SNP_P4_112917_345264	NW_004515676.1	Scaffold80	345264	TT	CC	1946918525
SNP_P4_112918_346244	NW_004515676.1	Scaffold80	346244	AA	GG	1946918527
SNP_P4_112919_350766	NW_004515676.1	Scaffold80	350766	AA	GG	1946918529
SNP_P4_112920_350816	NW_004515676.1	Scaffold80	350816	TT	CC	1946918531
SNP_P4_112921_354107	NW_004515676.1	Scaffold80	354107	TT	CC	1946918533

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_112924_354624	NW_004515676.1	Scaffold80	354624	AA	GG	1946918539
SNP_P4_112925_355722	NW_004515676.1	Scaffold80	355722	AA	GG	1946918542
SNP_P4_112926_355728	NW_004515676.1	Scaffold80	355728	TT	CC	1946918544
SNP_P4_112927_357546	NW_004515676.1	Scaffold80	357546	TT	GG	1946918546
SNP_P4_112928_358227	NW_004515676.1	Scaffold80	358227	CC	AA	1946918548
SNP_P4_112929_358229	NW_004515676.1	Scaffold80	358229	AA	GG	1946918550
SNP_P4_112930_358776	NW_004515676.1	Scaffold80	358776	TT	CC	1946918552
SNP_P4_112931_359517	NW_004515676.1	Scaffold80	359517	CC	TT	1946918554
SNP_P4_112932_364567	NW_004515676.1	Scaffold80	364567	AA	GG	1946918556
SNP_P4_112933_364583	NW_004515676.1	Scaffold80	364583	GG	AA	1946918558
SNP_P4_112934_364594	NW_004515676.1	Scaffold80	364594	AA	TT	1946918561
SNP_P4_112935_364646	NW_004515676.1	Scaffold80	364646	GG	TT	1946918563
SNP_P4_112936_365349	NW_004515676.1	Scaffold80	365349	GG	TT	1946918565
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SNP_P4_112938_382495	NW_004515676.1	Scaffold80	382495	TT	CC	1946918569
SNP_P4_112939_382498	NW_004515676.1	Scaffold80	382498	AA	CC	1946918571
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SNP_P4_112941_382521	NW_004515676.1	Scaffold80	382521	TT	CC	1946918575
SNP_P4_112942_382543	NW_004515676.1	Scaffold80	382543	AA	GG	1946918577
SNP_P4_112944_396387	NW_004515676.1	Scaffold80	396387	TT	AA	1946918579
SNP_P4_112945_429866	NW_004515676.1	Scaffold80	429866	GG	AA	1946918581
SNP_P4_112946_4266	NW_004515677.1	Scaffold81	4266	TT	CC	1946918583
SNP_P4_112947_90420	NW_004515677.1	Scaffold81	90420	TT	AA	1946918585
SNP_P4_112948_90451	NW_004515677.1	Scaffold81	90451	AA	GG	1946918587
SNP_P4_112949_90456	NW_004515677.1	Scaffold81	90456	CC	TT	1946918589
SNP_P4_112950_90513	NW_004515677.1	Scaffold81	90513	CC	AA	1946918591
SNP_P4_112951_90615	NW_004515677.1	Scaffold81	90615	CC	TT	1946918593
SNP_P4_112952_90700	NW_004515677.1	Scaffold81	90700	GG	AA	1946918595
SNP_P4_112953_91219	NW_004515677.1	Scaffold81	91219	AA	TT	1946918597
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SNP_P4_112955_91305	NW_004515677.1	Scaffold81	91305	AA	GG	1946918601
SNP_P4_112956_91314	NW_004515677.1	Scaffold81	91314	GG	TT	1946918603
SNP_P4_112957_91326	NW_004515677.1	Scaffold81	91326	TT	AA	1946918605
SNP_P4_112958_91338	NW_004515677.1	Scaffold81	91338	CC	AA	1946918607
SNP_P4_112959_91356	NW_004515677.1	Scaffold81	91356	CC	TT	1946918609
SNP_P4_112961_91424	NW_004515677.1	Scaffold81	91424	GG	CC	1946918611
SNP_P4_112962_91446	NW_004515677.1	Scaffold81	91446	GG	AA	1946918613
SNP_P4_112963_91448	NW_004515677.1	Scaffold81	91448	GG	AA	1946918615
SNP_P4_112964_91469	NW_004515677.1	Scaffold81	91469	GG	CC	1946918617
SNP_P4_112965_91499	NW_004515677.1	Scaffold81	91499	TT	CC	1946918619

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_112967_91513	NW_004515677.1	Scaffold81	91513	AA	GG	1946918623
SNP_P4_112968_91524	NW_004515677.1	Scaffold81	91524	GG	AA	1946918625
SNP_P4_112969_91561	NW_004515677.1	Scaffold81	91561	GG	AA	1946918627
SNP_P4_112970_91602	NW_004515677.1	Scaffold81	91602	AA	CC	1946918629
SNP_P4_112971_91603	NW_004515677.1	Scaffold81	91603	CC	AA	1946918631
SNP_P4_112972_91609	NW_004515677.1	Scaffold81	91609	AA	TT	1946918633
SNP_P4_112973_91643	NW_004515677.1	Scaffold81	91643	GG	AA	1946918635
SNP_P4_112974_91665	NW_004515677.1	Scaffold81	91665	AA	GG	1946918637
SNP_P4_112975_91773	NW_004515677.1	Scaffold81	91773	AA	TT	1946918639
SNP_P4_112976_91778	NW_004515677.1	Scaffold81	91778	GG	CC	1946918641
SNP_P4_112978_91866	NW_004515677.1	Scaffold81	91866	CC	TT	1946918643
SNP_P4_112979_91928	NW_004515677.1	Scaffold81	91928	AA	GG	1946918645
SNP_P4_112980_91931	NW_004515677.1	Scaffold81	91931	AA	TT	1946918647
SNP_P4_112981_92003	NW_004515677.1	Scaffold81	92003	AA	TT	1946918649
SNP_P4_112982_92010	NW_004515677.1	Scaffold81	92010	TT	AA	1946918651
SNP_P4_112983_92017	NW_004515677.1	Scaffold81	92017	AA	GG	1946918653
SNP_P4_112984_92033	NW_004515677.1	Scaffold81	92033	AA	TT	1946918655
SNP_P4_112985_92054	NW_004515677.1	Scaffold81	92054	AA	CC	1946918657
SNP_P4_112986_92117	NW_004515677.1	Scaffold81	92117	CC	GG	1946918659
SNP_P4_112987_92172	NW_004515677.1	Scaffold81	92172	TT	GG	1946918661
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SNP_P4_112992_6063	NW_004515679.1	Scaffold83	6063	AA	TT	1946918671
SNP_P4_112993_6067	NW_004515679.1	Scaffold83	6067	GG	AA	1946918673
SNP_P4_112994_6079	NW_004515679.1	Scaffold83	6079	CC	TT	1946918675
SNP_P4_112995_6080	NW_004515679.1	Scaffold83	6080	TT	CC	1946918677
SNP_P4_112996_6441	NW_004515679.1	Scaffold83	6441	TT	AA	1946918679
SNP_P4_112997_646	NW_004515680.1	Scaffold84	646	GG	AA	1946918681
SNP_P4_112998_437	NW_004515681.1	Scaffold86	437	GG	AA	1946918683
SNP_P4_112999_1105	NW_004515681.1	Scaffold86	1105	AA	GG	1946918685
SNP_P4_113000_1116	NW_004515681.1	Scaffold86	1116	AA	GG	1946918687
SNP_P4_113001_1152	NW_004515681.1	Scaffold86	1152	TT	AA	1946918689
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SNP_P4_113004_26101	NW_004515681.1	Scaffold86	26101	GG	AA	1946918693
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SNP_P4_113006_26115	NW_004515681.1	Scaffold86	26115	AA	GG	1946918697
SNP_P4_113007_26141	NW_004515681.1	Scaffold86	26141	TT	CC	1946918699
SNP_P4_113008_26154	NW_004515681.1	Scaffold86	26154	GG	TT	1946918701
SNP_P4_113009_30895	NW_004515681.1	Scaffold86	30895	AA	GG	1946918703

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_113011_31262	NW_004515681.1	Scaffold86	31262	AA	TT	1946918707
SNP_P4_113012_31271	NW_004515681.1	Scaffold86	31271	GG	CC	1946918709
SNP_P4_113013_31933	NW_004515681.1	Scaffold86	31933	CC	TT	1946918712
SNP_P4_113014_37272	NW_004515681.1	Scaffold86	37272	AA	TT	1946918714
SNP_P4_113015_37552	NW_004515681.1	Scaffold86	37552	GG	AA	1946918716
SNP_P4_113016_39508	NW_004515681.1	Scaffold86	39508	GG	CC	1946918718
SNP_P4_113017_39557	NW_004515681.1	Scaffold86	39557	AA	GG	1946918720
SNP_P4_113018_48524	NW_004515681.1	Scaffold86	48524	AA	CC	1946918722
SNP_P4_113019_64651	NW_004515681.1	Scaffold86	64651	TT	CC	1946918724
SNP_P4_113020_74809	NW_004515681.1	Scaffold86	74809	GG	TT	1946918726
SNP_P4_113021_83748	NW_004515681.1	Scaffold86	83748	AA	CC	1946918728
SNP_P4_113022_94941	NW_004515681.1	Scaffold86	94941	CC	AA	1946918730
SNP_P4_113023_6204	NW_004515682.1	Scaffold87	6204	TT	CC	1946918732
SNP_P4_113024_9071	NW_004515682.1	Scaffold87	9071	AA	GG	1946918734
SNP_P4_113025_9216	NW_004515682.1	Scaffold87	9216	CC	AA	1946918736
SNP_P4_113026_9424	NW_004515682.1	Scaffold87	9424	TT	CC	1946918739
SNP_P4_113027_9456	NW_004515682.1	Scaffold87	9456	AA	GG	1946918741
SNP_P4_113028_9472	NW_004515682.1	Scaffold87	9472	GG	CC	1946918743
SNP_P4_113029_9717	NW_004515682.1	Scaffold87	9717	AA	GG	1946918745
SNP_P4_113030_29407	NW_004515682.1	Scaffold87	29407	TT	CC	1946918747
SNP_P4_113031_50809	NW_004515682.1	Scaffold87	50809	AA	CC	1946918749
SNP_P4_113032_50860	NW_004515682.1	Scaffold87	50860	CC	GG	1946918751
SNP_P4_113033_51832	NW_004515682.1	Scaffold87	51832	TT	GG	1946918753
SNP_P4_113034_67179	NW_004515682.1	Scaffold87	67179	CC	TT	1946918755
SNP_P4_113035_79112	NW_004515682.1	Scaffold87	79112	GG	CC	1946918757
SNP_P4_113036_87135	NW_004515682.1	Scaffold87	87135	TT	CC	1946918759
SNP_P4_113037_115006	NW_004515682.1	Scaffold87	115006	GG	AA	1946918761
SNP_P4_113038_118025	NW_004515682.1	Scaffold87	118025	TT	GG	1946918763
SNP_P4_113039_118030	NW_004515682.1	Scaffold87	118030	CC	TT	1946918765
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SNP_P4_113041_118045	NW_004515682.1	Scaffold87	118045	AA	GG	1946918769
SNP_P4_113042_118111	NW_004515682.1	Scaffold87	118111	TT	AA	1946918771
SNP_P4_113043_118123	NW_004515682.1	Scaffold87	118123	TT	CC	1946918773
SNP_P4_113044_118196	NW_004515682.1	Scaffold87	118196	GG	AA	1946918775
SNP_P4_113045_118265	NW_004515682.1	Scaffold87	118265	CC	TT	1946918777
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SNP_P4_113047_120906	NW_004515682.1	Scaffold87	120906	AA	GG	1946918781
SNP_P4_113048_121522	NW_004515682.1	Scaffold87	121522	TT	GG	1946918783
SNP_P4_113049_121573	NW_004515682.1	Scaffold87	121573	TT	CC	1946918785
SNP_P4_113050_140568	NW_004515682.1	Scaffold87	140568	CC	TT	1946918787
SNP_P4_113051_140571	NW_004515682.1	Scaffold87	140571	TT	GG	1946918789

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_113054_149153	NW_004515682.1	Scaffold87	149153	AA	TT	1946918795
SNP_P4_113055_149356	NW_004515682.1	Scaffold87	149356	AA	GG	1946918797
SNP_P4_113056_149362	NW_004515682.1	Scaffold87	149362	CC	AA	1946918799
SNP_P4_113057_149395	NW_004515682.1	Scaffold87	149395	GG	AA	1946918801
SNP_P4_113058_149408	NW_004515682.1	Scaffold87	149408	GG	AA	1946918803
SNP_P4_113059_158697	NW_004515682.1	Scaffold87	158697	AA	GG	1946918805
SNP_P4_113060_158754	NW_004515682.1	Scaffold87	158754	AA	GG	1946918807
SNP_P4_113061_158760	NW_004515682.1	Scaffold87	158760	CC	GG	1946918809
SNP_P4_113062_158811	NW_004515682.1	Scaffold87	158811	GG	AA	1946918811
SNP_P4_113063_158828	NW_004515682.1	Scaffold87	158828	GG	AA	1946918813
SNP_P4_113064_158934	NW_004515682.1	Scaffold87	158934	TT	CC	1946918815
SNP_P4_113066_170810	NW_004515682.1	Scaffold87	170810	GG	AA	1946918817
SNP_P4_113067_257223	NW_004515682.1	Scaffold87	257223	CC	TT	1946918819
SNP_P4_113068_262470	NW_004515682.1	Scaffold87	262470	AA	GG	1946918821
SNP_P4_113070_297591	NW_004515682.1	Scaffold87	297591	CC	AA	1946918823
SNP_P4_113071_306847	NW_004515682.1	Scaffold87	306847	AA	GG	1946918825
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SNP_P4_113086_435106	NW_004515682.1	Scaffold87	435106	CC	GG	1946918851
SNP_P4_113087_435146	NW_004515682.1	Scaffold87	435146	TT	GG	1946918853
SNP_P4_113088_435161	NW_004515682.1	Scaffold87	435161	GG	AA	1946918855
SNP_P4_113089_435172	NW_004515682.1	Scaffold87	435172	TT	AA	1946918857
SNP_P4_113090_435203	NW_004515682.1	Scaffold87	435203	GG	AA	1946918859
SNP_P4_113091_444553	NW_004515682.1	Scaffold87	444553	CC	AA	1946918861
SNP_P4_113092_445415	NW_004515682.1	Scaffold87	445415	AA	GG	1946918863
SNP_P4_113093_445431	NW_004515682.1	Scaffold87	445431	GG	CC	1946918865
SNP_P4_113094_445577	NW_004515682.1	Scaffold87	445577	AA	TT	1946918867
SNP_P4_113095_461931	NW_004515682.1	Scaffold87	461931	AA	CC	1946918869
SNP_P4_113096_462277	NW_004515682.1	Scaffold87	462277	CC	GG	1946918871
SNP_P4_113097_468733	NW_004515682.1	Scaffold87	468733	TT	CC	1946918873

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_113101_469134	NW_004515682.1	Scaffold87	469134	TT	GG	1946918879
SNP_P4_113102_471189	NW_004515682.1	Scaffold87	471189	CC	TT	1946918881
SNP_P4_113103_471501	NW_004515682.1	Scaffold87	471501	AA	GG	1946918883
SNP_P4_113104_500864	NW_004515682.1	Scaffold87	500864	TT	CC	1946918885
SNP_P4_113105_503752	NW_004515682.1	Scaffold87	503752	TT	CC	1946918887
SNP_P4_113108_538007	NW_004515682.1	Scaffold87	538007	GG	TT	1946918889
SNP_P4_113109_538016	NW_004515682.1	Scaffold87	538016	TT	GG	1946918891
SNP_P4_113110_538227	NW_004515682.1	Scaffold87	538227	TT	CC	1946918893
SNP_P4_113111_538251	NW_004515682.1	Scaffold87	538251	AA	CC	1946918895
SNP_P4_113112_538268	NW_004515682.1	Scaffold87	538268	CC	AA	1946918897
SNP_P4_113113_538280	NW_004515682.1	Scaffold87	538280	CC	TT	1946918899
SNP_P4_113114_538397	NW_004515682.1	Scaffold87	538397	CC	TT	1946918901
SNP_P4_113115_538418	NW_004515682.1	Scaffold87	538418	TT	CC	1946918903
SNP_P4_113116_538907	NW_004515682.1	Scaffold87	538907	CC	AA	1946918905
SNP_P4_113117_538921	NW_004515682.1	Scaffold87	538921	GG	AA	1946918907
SNP_P4_113118_538962	NW_004515682.1	Scaffold87	538962	AA	GG	1946918909
SNP_P4_113119_539016	NW_004515682.1	Scaffold87	539016	CC	AA	1946918911
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SNP_P4_113137_595921	NW_004515682.1	Scaffold87	595921	GG	AA	1946918941
SNP_P4_113138_596042	NW_004515682.1	Scaffold87	596042	GG	AA	1946918943
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SNP_P4_113144_598166	NW_004515682.1	Scaffold87	598166	TT	CC	1946918952
SNP_P4_113145_598184	NW_004515682.1	Scaffold87	598184	AA	GG	1946918953
SNP_P4_113146_598308	NW_004515682.1	Scaffold87	598308	GG	CC	1946918955

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_113149_598408	NW_004515682.1	Scaffold87	598408	AA	TT	1946918961
SNP_P4_113150_598409	NW_004515682.1	Scaffold87	598409	TT	GG	1946918963
SNP_P4_113151_598431	NW_004515682.1	Scaffold87	598431	GG	AA	1946918965
SNP_P4_113152_598481	NW_004515682.1	Scaffold87	598481	TT	CC	1946918967
SNP_P4_113153_11765	NW_004515683.1	Scaffold88	11765	CC	TT	1946918969
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SNP_P4_113157_48778	NW_004515683.1	Scaffold88	48778	CC	TT	1946918975
SNP_P4_113158_61858	NW_004515683.1	Scaffold88	61858	GG	AA	1946918977
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SNP_P4_113161_85615	NW_004515683.1	Scaffold88	85615	AA	GG	1946918983
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SNP_P4_113165_85661	NW_004515683.1	Scaffold88	85661	TT	CC	1946918991
SNP_P4_113166_85679	NW_004515683.1	Scaffold88	85679	TT	CC	1946918993
SNP_P4_113167_85700	NW_004515683.1	Scaffold88	85700	AA	GG	1946918995
SNP_P4_113168_85703	NW_004515683.1	Scaffold88	85703	AA	GG	1946918997
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SNP_P4_113171_86229	NW_004515683.1	Scaffold88	86229	CC	TT	1946919003
SNP_P4_113173_122995	NW_004515683.1	Scaffold88	122995	GG	AA	1946919005
SNP_P4_113174_123079	NW_004515683.1	Scaffold88	123079	AA	GG	1946919007
SNP_P4_113175_133845	NW_004515683.1	Scaffold88	133845	GG	TT	1946919009
SNP_P4_113176_134229	NW_004515683.1	Scaffold88	134229	TT	GG	1946919011
SNP_P4_113177_134316	NW_004515683.1	Scaffold88	134316	AA	GG	1946919013
SNP_P4_113178_134328	NW_004515683.1	Scaffold88	134328	TT	CC	1946919015
SNP_P4_113179_165264	NW_004515683.1	Scaffold88	165264	CC	TT	1946919017
SNP_P4_113180_181325	NW_004515683.1	Scaffold88	181325	CC	TT	1946919019
SNP_P4_113181_246989	NW_004515683.1	Scaffold88	246989	TT	CC	1946919022
SNP_P4_113182_295159	NW_004515683.1	Scaffold88	295159	GG	AA	1946919024
SNP_P4_113183_6576	NW_004515684.1	Scaffold89	6576	GG	AA	1946919026
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SNP_P4_113186_6705	NW_004515684.1	Scaffold89	6705	CC	TT	1946919032
SNP_P4_113187_6778	NW_004515684.1	Scaffold89	6778	CC	TT	1946919034
SNP_P4_113188_13164	NW_004515684.1	Scaffold89	13164	CC	TT	1946919036
SNP_P4_113189_13174	NW_004515684.1	Scaffold89	13174	CC	AA	1946919038
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_113193_13505	NW_004515684.1	Scaffold89	13505	AA	GG	1946919046
SNP_P4_113194_13562	NW_004515684.1	Scaffold89	13562	TT	CC	1946919048
SNP_P4_113195_13609	NW_004515684.1	Scaffold89	13609	TT	GG	1946919050
SNP_P4_113196_22908	NW_004515684.1	Scaffold89	22908	CC	TT	1946919052
SNP_P4_113197_22948	NW_004515684.1	Scaffold89	22948	CC	TT	1946919054
SNP_P4_113198_23117	NW_004515684.1	Scaffold89	23117	AA	GG	1946919056
SNP_P4_113199_23562	NW_004515684.1	Scaffold89	23562	TT	CC	1946919058
SNP_P4_113200_24052	NW_004515684.1	Scaffold89	24052	GG	AA	1946919060
SNP_P4_113201_24148	NW_004515684.1	Scaffold89	24148	CC	TT	1946919062
SNP_P4_113202_24673	NW_004515684.1	Scaffold89	24673	TT	CC	1946919064
SNP_P4_113204_25127	NW_004515684.1	Scaffold89	25127	TT	CC	1946919066
SNP_P4_113205_54244	NW_004515684.1	Scaffold89	54244	AA	TT	1946919068
SNP_P4_113207_64942	NW_004515684.1	Scaffold89	64942	CC	TT	1946919070
SNP_P4_113208_66855	NW_004515684.1	Scaffold89	66855	CC	TT	1946919072
SNP_P4_113209_69069	NW_004515684.1	Scaffold89	69069	AA	TT	1946919074
SNP_P4_113210_81118	NW_004515684.1	Scaffold89	81118	AA	TT	1946919076
SNP_P4_113211_81380	NW_004515684.1	Scaffold89	81380	CC	AA	1946919078
SNP_P4_113212_81732	NW_004515684.1	Scaffold89	81732	TT	CC	1946919080
SNP_P4_113213_87762	NW_004515684.1	Scaffold89	87762	AA	TT	1946919082
SNP_P4_113214_93755	NW_004515684.1	Scaffold89	93755	GG	AA	1946919084
SNP_P4_113215_95006	NW_004515684.1	Scaffold89	95006	TT	AA	1946919087
SNP_P4_113216_95102	NW_004515684.1	Scaffold89	95102	AA	TT	1946919089
SNP_P4_113217_95122	NW_004515684.1	Scaffold89	95122	AA	GG	1946919091
SNP_P4_113219_136746	NW_004515684.1	Scaffold89	136746	TT	CC	1946919093
SNP_P4_113220_140148	NW_004515684.1	Scaffold89	140148	TT	CC	1946919095
SNP_P4_113221_140194	NW_004515684.1	Scaffold89	140194	TT	CC	1946919098
SNP_P4_113222_140261	NW_004515684.1	Scaffold89	140261	AA	GG	1946919100
SNP_P4_113223_147022	NW_004515684.1	Scaffold89	147022	TT	AA	1946919102
SNP_P4_113224_155205	NW_004515684.1	Scaffold89	155205	TT	GG	1946919104
SNP_P4_113225_160870	NW_004515684.1	Scaffold89	160870	GG	CC	1946919106
SNP_P4_113226_162751	NW_004515684.1	Scaffold89	162751	TT	CC	1946919108
SNP_P4_113227_169043	NW_004515684.1	Scaffold89	169043	AA	GG	1946919111
SNP_P4_113228_169458	NW_004515684.1	Scaffold89	169458	TT	AA	1946919113
SNP_P4_113229_169822	NW_004515684.1	Scaffold89	169822	GG	AA	1946919115
SNP_P4_113230_201341	NW_004515684.1	Scaffold89	201341	GG	AA	1946919117
SNP_P4_113231_205059	NW_004515684.1	Scaffold89	205059	AA	GG	1946919119
SNP_P4_113233_221464	NW_004515684.1	Scaffold89	221464	AA	CC	1946919121
SNP_P4_113234_221465	NW_004515684.1	Scaffold89	221465	TT	AA	1946919123
SNP_P4_113235_221478	NW_004515684.1	Scaffold89	221478	AA	GG	1946919125
SNP_P4_113236_221483	NW_004515684.1	Scaffold89	221483	TT	CC	1946919128

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_113238_221596	NW_004515684.1	Scaffold89	221596	TT	CC	1946919132
SNP_P4_113239_221632	NW_004515684.1	Scaffold89	221632	TT	CC	1946919134
SNP_P4_113240_221799	NW_004515684.1	Scaffold89	221799	AA	GG	1946919136
SNP_P4_113241_221813	NW_004515684.1	Scaffold89	221813	CC	TT	1946919138
SNP_P4_113242_221854	NW_004515684.1	Scaffold89	221854	TT	CC	1946919140
SNP_P4_113243_221870	NW_004515684.1	Scaffold89	221870	AA	GG	1946919142
SNP_P4_113244_221904	NW_004515684.1	Scaffold89	221904	TT	CC	1946919144
SNP_P4_113245_221974	NW_004515684.1	Scaffold89	221974	GG	AA	1946919147
SNP_P4_113246_221979	NW_004515684.1	Scaffold89	221979	TT	CC	1946919149
SNP_P4_113247_221981	NW_004515684.1	Scaffold89	221981	TT	CC	1946919151
SNP_P4_113248_222013	NW_004515684.1	Scaffold89	222013	TT	CC	1946919153
SNP_P4_113249_222109	NW_004515684.1	Scaffold89	222109	GG	AA	1946919155
SNP_P4_113250_222135	NW_004515684.1	Scaffold89	222135	GG	CC	1946919157
SNP_P4_113251_222312	NW_004515684.1	Scaffold89	222312	CC	TT	1946919159
SNP_P4_113253_240543	NW_004515684.1	Scaffold89	240543	CC	AA	1946919162
SNP_P4_113254_149	NW_004515685.1	Scaffold92	149	AA	CC	1946919164
SNP_P4_113255_3432	NW_004515685.1	Scaffold92	3432	TT	CC	1946919166
SNP_P4_113256_3507	NW_004515685.1	Scaffold92	3507	TT	CC	1946919168
SNP_P4_113257_3720	NW_004515685.1	Scaffold92	3720	CC	TT	1946919171
SNP_P4_113258_4093	NW_004515685.1	Scaffold92	4093	TT	CC	1946919173
SNP_P4_113259_4495	NW_004515685.1	Scaffold92	4495	AA	GG	1946919175
SNP_P4_113260_20636	NW_004515685.1	Scaffold92	20636	CC	TT	1946919177
SNP_P4_113261_26826	NW_004515685.1	Scaffold92	26826	AA	TT	1946919179
SNP_P4_113262_26828	NW_004515685.1	Scaffold92	26828	CC	AA	1946919181
SNP_P4_113263_28021	NW_004515685.1	Scaffold92	28021	TT	AA	1946919183
SNP_P4_113264_28258	NW_004515685.1	Scaffold92	28258	TT	GG	1946919185
SNP_P4_113265_28259	NW_004515685.1	Scaffold92	28259	AA	GG	1946919187
SNP_P4_113266_28274	NW_004515685.1	Scaffold92	28274	AA	GG	1946919189
SNP_P4_113267_28367	NW_004515685.1	Scaffold92	28367	AA	GG	1946919191
SNP_P4_113268_28770	NW_004515685.1	Scaffold92	28770	AA	TT	1946919194
SNP_P4_113269_28865	NW_004515685.1	Scaffold92	28865	GG	AA	1946919196
SNP_P4_113270_28892	NW_004515685.1	Scaffold92	28892	AA	CC	1946919198
SNP_P4_113271_28904	NW_004515685.1	Scaffold92	28904	AA	GG	1946919200
SNP_P4_113272_28921	NW_004515685.1	Scaffold92	28921	AA	TT	1946919202
SNP_P4_113273_28935	NW_004515685.1	Scaffold92	28935	TT	AA	1946919204
SNP_P4_113274_28944	NW_004515685.1	Scaffold92	28944	GG	AA	1946919206
SNP_P4_113275_28960	NW_004515685.1	Scaffold92	28960	AA	CC	1946919209
SNP_P4_113276_29117	NW_004515685.1	Scaffold92	29117	AA	GG	1946919211
SNP_P4_113277_29205	NW_004515685.1	Scaffold92	29205	CC	TT	1946919213
SNP_P4_113278_29219	NW_004515685.1	Scaffold92	29219	GG	AA	1946919215
SNP_P4_113279_29347	NW_004515685.1	Scaffold92	29347	TT	AA	1946919217

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_113281_31342	NW_004515685.1	Scaffold92	31342	AA	TT	1946919221
SNP_P4_113282_31344	NW_004515685.1	Scaffold92	31344	AA	CC	1946919223
SNP_P4_113283_31617	NW_004515685.1	Scaffold92	31617	AA	CC	1946919225
SNP_P4_113284_31628	NW_004515685.1	Scaffold92	31628	TT	AA	1946919227
SNP_P4_113285_31805	NW_004515685.1	Scaffold92	31805	AA	CC	1946919229
SNP_P4_113286_32987	NW_004515685.1	Scaffold92	32987	AA	TT	1946919231
SNP_P4_113287_33675	NW_004515685.1	Scaffold92	33675	AA	TT	1946919233
SNP_P4_113288_33956	NW_004515685.1	Scaffold92	33956	AA	TT	1946919235
SNP_P4_113289_33967	NW_004515685.1	Scaffold92	33967	CC	TT	1946919237
SNP_P4_113290_34002	NW_004515685.1	Scaffold92	34002	AA	TT	1946919239
SNP_P4_113291_34563	NW_004515685.1	Scaffold92	34563	GG	CC	1946919241
SNP_P4_113292_34639	NW_004515685.1	Scaffold92	34639	GG	TT	1946919243
SNP_P4_113293_34779	NW_004515685.1	Scaffold92	34779	GG	CC	1946919245
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SNP_P4_113295_34916	NW_004515685.1	Scaffold92	34916	GG	AA	1946919249
SNP_P4_113296_34919	NW_004515685.1	Scaffold92	34919	TT	CC	1946919251
SNP_P4_113297_34942	NW_004515685.1	Scaffold92	34942	AA	GG	1946919253
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SNP_P4_113304_35106	NW_004515685.1	Scaffold92	35106	CC	TT	1946919267
SNP_P4_113305_35149	NW_004515685.1	Scaffold92	35149	AA	GG	1946919269
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SNP_P4_113311_35649	NW_004515685.1	Scaffold92	35649	TT	CC	1946919281
SNP_P4_113312_35656	NW_004515685.1	Scaffold92	35656	TT	CC	1946919283
SNP_P4_113313_35685	NW_004515685.1	Scaffold92	35685	GG	AA	1946919285
SNP_P4_113314_39428	NW_004515685.1	Scaffold92	39428	AA	GG	1946919287
SNP_P4_113315_41411	NW_004515685.1	Scaffold92	41411	GG	TT	1946919289
SNP_P4_113316_41462	NW_004515685.1	Scaffold92	41462	TT	CC	1946919292
SNP_P4_113317_43452	NW_004515685.1	Scaffold92	43452	GG	AA	1946919294
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SNP_P4_113319_44775	NW_004515685.1	Scaffold92	44775	CC	TT	1946919298
SNP_P4_113320_44875	NW_004515685.1	Scaffold92	44875	GG	AA	1946919300
SNP_P4_113321_44884	NW_004515685.1	Scaffold92	44884	CC	TT	1946919302

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_113324_49816	NW_004515685.1	Scaffold92	49816	CC	GG	1946919307
SNP_P4_113325_49824	NW_004515685.1	Scaffold92	49824	GG	TT	1946919309
SNP_P4_113326_49826	NW_004515685.1	Scaffold92	49826	AA	TT	1946919311
SNP_P4_113327_49894	NW_004515685.1	Scaffold92	49894	GG	AA	1946919313
SNP_P4_113328_49900	NW_004515685.1	Scaffold92	49900	CC	TT	1946919315
SNP_P4_113329_49906	NW_004515685.1	Scaffold92	49906	CC	AA	1946919317
SNP_P4_113330_58227	NW_004515685.1	Scaffold92	58227	GG	CC	1946919319
SNP_P4_113331_69142	NW_004515685.1	Scaffold92	69142	TT	CC	1946919321
SNP_P4_113332_69169	NW_004515685.1	Scaffold92	69169	AA	CC	1946919323
SNP_P4_113333_69170	NW_004515685.1	Scaffold92	69170	AA	CC	1946919325
SNP_P4_113334_69174	NW_004515685.1	Scaffold92	69174	CC	GG	1946919327
SNP_P4_113335_69179	NW_004515685.1	Scaffold92	69179	CC	TT	1946919329
SNP_P4_113336_69613	NW_004515685.1	Scaffold92	69613	AA	GG	1946919331
SNP_P4_113337_70925	NW_004515685.1	Scaffold92	70925	AA	CC	1946919333
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SNP_P4_113339_73448	NW_004515685.1	Scaffold92	73448	TT	GG	1946919337
SNP_P4_113340_78357	NW_004515685.1	Scaffold92	78357	TT	AA	1946919340
SNP_P4_113341_78368	NW_004515685.1	Scaffold92	78368	TT	AA	1946919342
SNP_P4_113342_78389	NW_004515685.1	Scaffold92	78389	TT	GG	1946919344
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SNP_P4_113346_80075	NW_004515685.1	Scaffold92	80075	TT	AA	1946919352
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SNP_P4_113354_101177	NW_004515685.1	Scaffold92	101177	GG	AA	1946919369
SNP_P4_113355_107267	NW_004515685.1	Scaffold92	107267	TT	CC	1946919371
SNP_P4_113357_108910	NW_004515685.1	Scaffold92	108910	AA	TT	1946919373
SNP_P4_113358_109199	NW_004515685.1	Scaffold92	109199	TT	AA	1946919376
SNP_P4_113359_109201	NW_004515685.1	Scaffold92	109201	CC	TT	1946919378
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SNP_P4_113361_109482	NW_004515685.1	Scaffold92	109482	TT	CC	1946919383
SNP_P4_113362_109841	NW_004515685.1	Scaffold92	109841	GG	CC	1946919385
SNP_P4_113363_109993	NW_004515685.1	Scaffold92	109993	TT	CC	1946919387
SNP_P4_113364_110101	NW_004515685.1	Scaffold92	110101	CC	TT	1946919389
SNP_P4_113365_110190	NW_004515685.1	Scaffold92	110190	AA	TT	1946919391

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_113367_110235	NW_004515685.1	Scaffold92	110235	CC	TT	1946919395
SNP_P4_113368_110286	NW_004515685.1	Scaffold92	110286	GG	TT	1946919397
SNP_P4_113369_110290	NW_004515685.1	Scaffold92	110290	TT	CC	1946919400
SNP_P4_113370_110333	NW_004515685.1	Scaffold92	110333	CC	TT	1946919402
SNP_P4_113371_110377	NW_004515685.1	Scaffold92	110377	TT	CC	1946919404
SNP_P4_113372_110378	NW_004515685.1	Scaffold92	110378	GG	AA	1946919406
SNP_P4_113373_123092	NW_004515685.1	Scaffold92	123092	GG	AA	1946919408
SNP_P4_113375_7687	NW_004515686.1	Scaffold93	7687	GG	TT	1946919410
SNP_P4_113376_7721	NW_004515686.1	Scaffold93	7721	GG	AA	1946919412
SNP_P4_113377_8360	NW_004515686.1	Scaffold93	8360	AA	GG	1946919414
SNP_P4_113378_9276	NW_004515686.1	Scaffold93	9276	GG	TT	1946919416
SNP_P4_113379_9363	NW_004515686.1	Scaffold93	9363	AA	TT	1946919418
SNP_P4_113380_9382	NW_004515686.1	Scaffold93	9382	TT	GG	1946919420
SNP_P4_113381_9457	NW_004515686.1	Scaffold93	9457	AA	GG	1946919422
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SNP_P4_113387_38601	NW_004515686.1	Scaffold93	38601	GG	AA	1946919434
SNP_P4_113388_38979	NW_004515686.1	Scaffold93	38979	CC	TT	1946919436
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SNP_P4_113391_46774	NW_004515686.1	Scaffold93	46774	TT	GG	1946919442
SNP_P4_113392_46796	NW_004515686.1	Scaffold93	46796	AA	GG	1946919444
SNP_P4_113393_46884	NW_004515686.1	Scaffold93	46884	AA	GG	1946919446
SNP_P4_113394_46895	NW_004515686.1	Scaffold93	46895	TT	AA	1946919448
SNP_P4_113395_46902	NW_004515686.1	Scaffold93	46902	TT	CC	1946919450
SNP_P4_113396_46930	NW_004515686.1	Scaffold93	46930	AA	CC	1946919452
SNP_P4_113397_46946	NW_004515686.1	Scaffold93	46946	CC	TT	1946919454
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SNP_P4_113405_94054	NW_004515686.1	Scaffold93	94054	TT	CC	1946919470
SNP_P4_113406_94057	NW_004515686.1	Scaffold93	94057	GG	AA	1946919473
SNP_P4_113407_94060	NW_004515686.1	Scaffold93	94060	AA	CC	1946919475
SNP_P4_113408_94192	NW_004515686.1	Scaffold93	94192	TT	CC	1946919477

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_113410_94557	NW_004515686.1	Scaffold93	94557	TT	AA	1946919482
SNP_P4_113411_97175	NW_004515686.1	Scaffold93	97175	TT	CC	1946919484
SNP_P4_113412_97193	NW_004515686.1	Scaffold93	97193	AA	TT	1946919486
SNP_P4_113413_97293	NW_004515686.1	Scaffold93	97293	TT	CC	1946919488
SNP_P4_113414_97487	NW_004515686.1	Scaffold93	97487	CC	GG	1946919490
SNP_P4_113415_110362	NW_004515686.1	Scaffold93	110362	CC	AA	1946919493
SNP_P4_113416_110375	NW_004515686.1	Scaffold93	110375	GG	AA	1946919495
SNP_P4_113417_110381	NW_004515686.1	Scaffold93	110381	TT	AA	1946919497
SNP_P4_113418_127178	NW_004515686.1	Scaffold93	127178	GG	TT	1946919499
SNP_P4_113419_132665	NW_004515686.1	Scaffold93	132665	AA	CC	1946919501
SNP_P4_113420_132680	NW_004515686.1	Scaffold93	132680	AA	TT	1946919503
SNP_P4_113421_132692	NW_004515686.1	Scaffold93	132692	GG	TT	1946919505
SNP_P4_113422_140813	NW_004515686.1	Scaffold93	140813	TT	CC	1946919507
SNP_P4_113423_140886	NW_004515686.1	Scaffold93	140886	AA	GG	1946919510
SNP_P4_113425_141174	NW_004515686.1	Scaffold93	141174	CC	TT	1946919512
SNP_P4_113426_141258	NW_004515686.1	Scaffold93	141258	AA	GG	1946919514
SNP_P4_113427_149120	NW_004515686.1	Scaffold93	149120	CC	TT	1946919516
SNP_P4_113428_153621	NW_004515686.1	Scaffold93	153621	TT	CC	1946919518
SNP_P4_113429_153897	NW_004515686.1	Scaffold93	153897	TT	CC	1946919520
SNP_P4_113430_178356	NW_004515686.1	Scaffold93	178356	CC	TT	1946919522
SNP_P4_113431_180662	NW_004515686.1	Scaffold93	180662	AA	CC	1946919524
SNP_P4_113432_180685	NW_004515686.1	Scaffold93	180685	TT	CC	1946919526
SNP_P4_113433_192487	NW_004515686.1	Scaffold93	192487	GG	AA	1946919528
SNP_P4_113434_193740	NW_004515686.1	Scaffold93	193740	TT	CC	1946919530
SNP_P4_113435_213132	NW_004515686.1	Scaffold93	213132	TT	CC	1946919532
SNP_P4_113436_230847	NW_004515686.1	Scaffold93	230847	GG	TT	1946919534
SNP_P4_113437_230848	NW_004515686.1	Scaffold93	230848	CC	TT	1946919536
SNP_P4_113438_231059	NW_004515686.1	Scaffold93	231059	TT	CC	1946919538
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SNP_P4_113441_254128	NW_004515686.1	Scaffold93	254128	AA	CC	1946919544
SNP_P4_113442_264352	NW_004515686.1	Scaffold93	264352	CC	TT	1946919547
SNP_P4_113443_264434	NW_004515686.1	Scaffold93	264434	GG	TT	1946919549
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SNP_P4_113448_296277	NW_004515686.1	Scaffold93	296277	GG	AA	1946919557
SNP_P4_113449_296309	NW_004515686.1	Scaffold93	296309	CC	AA	1946919559
SNP_P4_113450_296320	NW_004515686.1	Scaffold93	296320	TT	CC	1946919561
SNP_P4_113451_296322	NW_004515686.1	Scaffold93	296322	GG	AA	1946919563
SNP_P4_113452_296561	NW_004515686.1	Scaffold93	296561	CC	TT	1946919565

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_113456_296720	NW_004515686.1	Scaffold93	296720	TT	GG	1946919573
SNP_P4_113457_297499	NW_004515686.1	Scaffold93	297499	CC	AA	1946919575
SNP_P4_113458_297681	NW_004515686.1	Scaffold93	297681	TT	GG	1946919577
SNP_P4_113459_305867	NW_004515686.1	Scaffold93	305867	TT	CC	1946919579
SNP_P4_113460_318681	NW_004515686.1	Scaffold93	318681	AA	GG	1946919581
SNP_P4_113461_337779	NW_004515686.1	Scaffold93	337779	GG	AA	1946919583
SNP_P4_113462_337830	NW_004515686.1	Scaffold93	337830	TT	CC	1946919585
SNP_P4_113463_337851	NW_004515686.1	Scaffold93	337851	TT	CC	1946919587
SNP_P4_113464_337889	NW_004515686.1	Scaffold93	337889	TT	CC	1946919589
SNP_P4_113465_337925	NW_004515686.1	Scaffold93	337925	TT	CC	1946919591
SNP_P4_113467_338043	NW_004515686.1	Scaffold93	338043	AA	CC	1946919593
SNP_P4_113468_338101	NW_004515686.1	Scaffold93	338101	CC	TT	1946919595
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SNP_P4_113472_338148	NW_004515686.1	Scaffold93	338148	TT	GG	1946919603
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SNP_P4_113474_338408	NW_004515686.1	Scaffold93	338408	GG	AA	1946919607
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SNP_P4_113477_362879	NW_004515686.1	Scaffold93	362879	AA	GG	1946919613
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SNP_P4_113480_449701	NW_004515686.1	Scaffold93	449701	GG	AA	1946919617
SNP_P4_113481_449742	NW_004515686.1	Scaffold93	449742	TT	CC	1946919619
SNP_P4_113482_469724	NW_004515686.1	Scaffold93	469724	CC	AA	1946919621
SNP_P4_113483_483448	NW_004515686.1	Scaffold93	483448	TT	GG	1946919623
SNP_P4_113484_483455	NW_004515686.1	Scaffold93	483455	GG	AA	1946919625
SNP_P4_113485_483613	NW_004515686.1	Scaffold93	483613	GG	AA	1946919627
SNP_P4_113486_483653	NW_004515686.1	Scaffold93	483653	TT	CC	1946919629
SNP_P4_113487_483661	NW_004515686.1	Scaffold93	483661	AA	GG	1946919631
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SNP_P4_113491_499606	NW_004515686.1	Scaffold93	499606	TT	CC	1946919639
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SNP_P4_113493_503470	NW_004515686.1	Scaffold93	503470	TT	CC	1946919643
SNP_P4_113494_503529	NW_004515686.1	Scaffold93	503529	AA	GG	1946919645
SNP_P4_113495_503537	NW_004515686.1	Scaffold93	503537	TT	CC	1946919647
SNP_P4_113496_503540	NW_004515686.1	Scaffold93	503540	AA	CC	1946919649

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_113499_503556	NW_004515686.1	Scaffold93	503556	GG	TT	1946919655
SNP_P4_113500_503562	NW_004515686.1	Scaffold93	503562	AA	TT	1946919657
SNP_P4_113501_503566	NW_004515686.1	Scaffold93	503566	TT	GG	1946919659
SNP_P4_113503_515504	NW_004515686.1	Scaffold93	515504	TT	CC	1946919662
SNP_P4_113504_529696	NW_004515686.1	Scaffold93	529696	CC	TT	1946919664
SNP_P4_113505_542746	NW_004515686.1	Scaffold93	542746	GG	AA	1946919666
SNP_P4_113507_572635	NW_004515686.1	Scaffold93	572635	TT	GG	1946919668
SNP_P4_113508_572649	NW_004515686.1	Scaffold93	572649	GG	TT	1946919670
SNP_P4_113509_572673	NW_004515686.1	Scaffold93	572673	CC	TT	1946919672
SNP_P4_113510_572803	NW_004515686.1	Scaffold93	572803	CC	AA	1946919674
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SNP_P4_113512_573019	NW_004515686.1	Scaffold93	573019	GG	CC	1946919678
SNP_P4_113513_573062	NW_004515686.1	Scaffold93	573062	TT	CC	1946919680
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SNP_P4_113538_2334	NW_004515687.1	Scaffold96	2334	TT	CC	1946919726
SNP_P4_113539_3781	NW_004515687.1	Scaffold96	3781	GG	AA	1946919728
SNP_P4_113540_3804	NW_004515687.1	Scaffold96	3804	GG	AA	1946919730
SNP_P4_113541_4112	NW_004515687.1	Scaffold96	4112	AA	CC	1946919732
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_113545_35301	NW_004515687.1	Scaffold96	35301	AA	TT	1946919740
SNP_P4_113546_61191	NW_004515687.1	Scaffold96	61191	CC	TT	1946919742
SNP_P4_113547_93567	NW_004515687.1	Scaffold96	93567	GG	AA	1946919744
SNP_P4_113548_100497	NW_004515687.1	Scaffold96	100497	CC	TT	1946919746
SNP_P4_113549_107062	NW_004515687.1	Scaffold96	107062	TT	CC	1946919748
SNP_P4_113550_117638	NW_004515687.1	Scaffold96	117638	TT	GG	1946919750
SNP_P4_113551_157421	NW_004515687.1	Scaffold96	157421	CC	TT	1946919752
SNP_P4_113552_159487	NW_004515687.1	Scaffold96	159487	GG	AA	1946919754
SNP_P4_113553_159513	NW_004515687.1	Scaffold96	159513	TT	CC	1946919756
SNP_P4_113554_159605	NW_004515687.1	Scaffold96	159605	CC	AA	1946919758
SNP_P4_113555_159635	NW_004515687.1	Scaffold96	159635	GG	AA	1946919760
SNP_P4_113556_159863	NW_004515687.1	Scaffold96	159863	GG	AA	1946919762
SNP_P4_113557_159889	NW_004515687.1	Scaffold96	159889	GG	TT	1946919764
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SNP_P4_113561_169381	NW_004515687.1	Scaffold96	169381	TT	CC	1946919772
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SNP_P4_113566_180952	NW_004515687.1	Scaffold96	180952	TT	AA	1946919782
SNP_P4_113567_180961	NW_004515687.1	Scaffold96	180961	AA	CC	1946919784
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SNP_P4_113574_316562	NW_004515687.1	Scaffold96	316562	CC	TT	1946919798
SNP_P4_113576_316637	NW_004515687.1	Scaffold96	316637	CC	TT	1946919800
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SNP_P4_113581_6178	NW_004515688.1	Scaffold98	6178	CC	GG	1946919810
SNP_P4_113582_13937	NW_004515688.1	Scaffold98	13937	GG	AA	1946919812
SNP_P4_113583_13943	NW_004515688.1	Scaffold98	13943	GG	AA	1946919814
SNP_P4_113584_13944	NW_004515688.1	Scaffold98	13944	GG	AA	1946919816
SNP_P4_113585_14602	NW_004515688.1	Scaffold98	14602	TT	CC	1946919818

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_113586_14611	NW_004515688.1	Scaffold98	14611	AA	TT	1946919820
SNP_P4_113587_14619	NW_004515688.1	Scaffold98	14619	TT	CC	1946919822
SNP_P4_113588_22127	NW_004515688.1	Scaffold98	22127	GG	AA	1946919824
SNP_P4_113589_63963	NW_004515688.1	Scaffold98	63963	GG	TT	1946919826
SNP_P4_113590_63978	NW_004515688.1	Scaffold98	63978	AA	GG	1946919828
SNP_P4_113591_63979	NW_004515688.1	Scaffold98	63979	AA	GG	1946919830
SNP_P4_113592_89115	NW_004515688.1	Scaffold98	89115	AA	TT	1946919832
SNP_P4_113593_89134	NW_004515688.1	Scaffold98	89134	TT	CC	1946919834
SNP_P4_113594_89495	NW_004515688.1	Scaffold98	89495	AA	TT	1946919836
SNP_P4_113595_108017	NW_004515688.1	Scaffold98	108017	GG	TT	1946919838
SNP_P4_113596_109957	NW_004515688.1	Scaffold98	109957	TT	CC	1946919840
SNP_P4_113597_109966	NW_004515688.1	Scaffold98	109966	TT	CC	1946919842
SNP_P4_113598_110104	NW_004515688.1	Scaffold98	110104	AA	GG	1946919844
SNP_P4_113599_132156	NW_004515688.1	Scaffold98	132156	AA	GG	1946919847
SNP_P4_113603_162958	NW_004515688.1	Scaffold98	162958	CC	TT	1946919849
SNP_P4_113604_163061	NW_004515688.1	Scaffold98	163061	TT	AA	1946919851
SNP_P4_113605_175300	NW_004515688.1	Scaffold98	175300	CC	TT	1946919853
SNP_P4_113607_199922	NW_004515688.1	Scaffold98	199922	GG	TT	1946919855
SNP_P4_113608_210165	NW_004515688.1	Scaffold98	210165	AA	GG	1946919857
SNP_P4_113610_251070	NW_004515688.1	Scaffold98	251070	TT	AA	1946919859
SNP_P4_113611_270824	NW_004515688.1	Scaffold98	270824	AA	GG	1946919861
SNP_P4_113612_271153	NW_004515688.1	Scaffold98	271153	TT	CC	1946919863
SNP_P4_113613_271201	NW_004515688.1	Scaffold98	271201	AA	GG	1946919865
SNP_P4_113614_271225	NW_004515688.1	Scaffold98	271225	CC	TT	1946919867
SNP_P4_113615_277276	NW_004515688.1	Scaffold98	277276	AA	GG	1946919869
SNP_P4_113616_277329	NW_004515688.1	Scaffold98	277329	TT	CC	1946919872
SNP_P4_113617_277388	NW_004515688.1	Scaffold98	277388	CC	TT	1946919874
SNP_P4_113618_296061	NW_004515688.1	Scaffold98	296061	AA	CC	1946919876
SNP_P4_113619_296073	NW_004515688.1	Scaffold98	296073	AA	CC	1946919878
SNP_P4_113620_296094	NW_004515688.1	Scaffold98	296094	TT	CC	1946919880
SNP_P4_113621_296100	NW_004515688.1	Scaffold98	296100	AA	CC	1946919882
SNP_P4_113622_296134	NW_004515688.1	Scaffold98	296134	TT	CC	1946919884
SNP_P4_113623_296347	NW_004515688.1	Scaffold98	296347	AA	GG	1946919886
SNP_P4_113624_296374	NW_004515688.1	Scaffold98	296374	AA	GG	1946919888
SNP_P4_113625_312466	NW_004515688.1	Scaffold98	312466	AA	TT	1946919890
SNP_P4_113626_334623	NW_004515688.1	Scaffold98	334623	TT	CC	1946919892
SNP_P4_113627_334630	NW_004515688.1	Scaffold98	334630	AA	GG	1946919894
SNP_P4_113628_335028	NW_004515688.1	Scaffold98	335028	TT	CC	1946919896
SNP_P4_113629_335065	NW_004515688.1	Scaffold98	335065	GG	AA	1946919898
SNP_P4_113630_335559	NW_004515688.1	Scaffold98	335559	TT	CC	1946919900
SNP_P4_113631_335579	NW_004515688.1	Scaffold98	335579	AA	TT	1946919902
SNP_P4_113635_362301	NW_004515688.1	Scaffold98	362301	AA	TT	1946919904

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_113638_432950	NW_004515688.1	Scaffold98	432950	AA	CC	1946919908
SNP_P4_113639_432951	NW_004515688.1	Scaffold98	432951	AA	CC	1946919910
SNP_P4_113641_457070	NW_004515688.1	Scaffold98	457070	CC	TT	1946919912
SNP_P4_113642_489167	NW_004515688.1	Scaffold98	489167	AA	GG	1946919914
SNP_P4_113643_512190	NW_004515688.1	Scaffold98	512190	GG	CC	1946919916
SNP_P4_113644_524332	NW_004515688.1	Scaffold98	524332	GG	AA	1946919918
SNP_P4_113645_524460	NW_004515688.1	Scaffold98	524460	AA	GG	1946919920
SNP_P4_113646_524662	NW_004515688.1	Scaffold98	524662	AA	CC	1946919922
SNP_P4_113649_598574	NW_004515688.1	Scaffold98	598574	TT	CC	1946919924
SNP_P4_113650_610844	NW_004515688.1	Scaffold98	610844	AA	CC	1946919926
SNP_P4_113651_627620	NW_004515688.1	Scaffold98	627620	CC	TT	1946919928
SNP_P4_113652_628217	NW_004515688.1	Scaffold98	628217	CC	TT	1946919930
SNP_P4_113654_668635	NW_004515688.1	Scaffold98	668635	AA	GG	1946919932
SNP_P4_113655_694671	NW_004515688.1	Scaffold98	694671	CC	AA	1946919934
SNP_P4_113656_5747	NW_004515689.1	Scaffold99	5747	CC	TT	1946919936
SNP_P4_113657_5782	NW_004515689.1	Scaffold99	5782	CC	AA	1946919938
SNP_P4_113658_10155	NW_004515689.1	Scaffold99	10155	TT	CC	1946919940
SNP_P4_113659_11743	NW_004515689.1	Scaffold99	11743	TT	CC	1946919942
SNP_P4_113660_11772	NW_004515689.1	Scaffold99	11772	AA	CC	1946919944
SNP_P4_113661_11773	NW_004515689.1	Scaffold99	11773	GG	CC	1946919946
SNP_P4_113662_11801	NW_004515689.1	Scaffold99	11801	GG	TT	1946919948
SNP_P4_113663_11811	NW_004515689.1	Scaffold99	11811	TT	CC	1946919950
SNP_P4_113664_11820	NW_004515689.1	Scaffold99	11820	GG	AA	1946919953
SNP_P4_113665_11836	NW_004515689.1	Scaffold99	11836	TT	AA	1946919955
SNP_P4_113666_12018	NW_004515689.1	Scaffold99	12018	TT	CC	1946919957
SNP_P4_113667_29038	NW_004515689.1	Scaffold99	29038	AA	GG	1946919959
SNP_P4_113668_51556	NW_004515689.1	Scaffold99	51556	CC	TT	1946919961
SNP_P4_113670_69331	NW_004515689.1	Scaffold99	69331	AA	CC	1946919963
SNP_P4_113671_69499	NW_004515689.1	Scaffold99	69499	AA	GG	1946919965
SNP_P4_113672_69634	NW_004515689.1	Scaffold99	69634	AA	CC	1946919967
SNP_P4_113673_79741	NW_004515689.1	Scaffold99	79741	AA	GG	1946919969
SNP_P4_113674_81566	NW_004515689.1	Scaffold99	81566	GG	TT	1946919971
SNP_P4_113676_109298	NW_004515689.1	Scaffold99	109298	CC	TT	1946919973
SNP_P4_113677_110442	NW_004515689.1	Scaffold99	110442	TT	CC	1946919975
SNP_P4_113678_110486	NW_004515689.1	Scaffold99	110486	AA	TT	1946919977
SNP_P4_113679_111825	NW_004515689.1	Scaffold99	111825	GG	AA	1946919979
SNP_P4_113680_111971	NW_004515689.1	Scaffold99	111971	GG	AA	1946919981
SNP_P4_113681_132395	NW_004515689.1	Scaffold99	132395	GG	AA	1946919983
SNP_P4_113682_132461	NW_004515689.1	Scaffold99	132461	AA	GG	1946919985
SNP_P4_113683_132473	NW_004515689.1	Scaffold99	132473	GG	AA	1946919987
SNP_P4_113684_132799	NW_004515689.1	Scaffold99	132799	TT	CC	1946919989

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_113686_132815	NW_004515689.1	Scaffold99	132815	GG	TT	1946919993
SNP_P4_113687_132835	NW_004515689.1	Scaffold99	132835	AA	GG	1946919995
SNP_P4_113688_133171	NW_004515689.1	Scaffold99	133171	TT	CC	1946919997
SNP_P4_113689_160695	NW_004515689.1	Scaffold99	160695	TT	GG	1946919999
SNP_P4_113690_176534	NW_004515689.1	Scaffold99	176534	GG	AA	1946920001
SNP_P4_113691_189830	NW_004515689.1	Scaffold99	189830	GG	AA	1946920003
SNP_P4_113692_189879	NW_004515689.1	Scaffold99	189879	TT	AA	1946920005
SNP_P4_113693_189943	NW_004515689.1	Scaffold99	189943	TT	CC	1946920007
SNP_P4_113694_199203	NW_004515689.1	Scaffold99	199203	CC	TT	1946920009
SNP_P4_113695_199231	NW_004515689.1	Scaffold99	199231	GG	CC	1946920011
SNP_P4_113696_199288	NW_004515689.1	Scaffold99	199288	TT	AA	1946920013
SNP_P4_113697_199381	NW_004515689.1	Scaffold99	199381	GG	AA	1946920015
SNP_P4_113698_201872	NW_004515689.1	Scaffold99	201872	AA	GG	1946920017
SNP_P4_113699_210315	NW_004515689.1	Scaffold99	210315	GG	TT	1946920019
SNP_P4_113700_210869	NW_004515689.1	Scaffold99	210869	CC	TT	1946920021
SNP_P4_113701_215175	NW_004515689.1	Scaffold99	215175	AA	GG	1946920023
SNP_P4_113702_215181	NW_004515689.1	Scaffold99	215181	TT	CC	1946920025
SNP_P4_113704_215569	NW_004515689.1	Scaffold99	215569	GG	AA	1946920027
SNP_P4_113705_223287	NW_004515689.1	Scaffold99	223287	TT	CC	1946920029
SNP_P4_113706_225128	NW_004515689.1	Scaffold99	225128	CC	TT	1946920031
SNP_P4_113707_225149	NW_004515689.1	Scaffold99	225149	TT	CC	1946920033
SNP_P4_113708_225150	NW_004515689.1	Scaffold99	225150	TT	AA	1946920035
SNP_P4_113709_241968	NW_004515689.1	Scaffold99	241968	GG	AA	1946920037
SNP_P4_113710_9156	NW_004515690.1	Scaffold100	9156	TT	CC	1946920039
SNP_P4_113711_9160	NW_004515690.1	Scaffold100	9160	CC	GG	1946920041
SNP_P4_113712_9180	NW_004515690.1	Scaffold100	9180	GG	TT	1946920043
SNP_P4_113713_9189	NW_004515690.1	Scaffold100	9189	CC	TT	1946920045
SNP_P4_113714_9243	NW_004515690.1	Scaffold100	9243	AA	TT	1946920048
SNP_P4_113715_9413	NW_004515690.1	Scaffold100	9413	AA	GG	1946920050
SNP_P4_113716_9616	NW_004515690.1	Scaffold100	9616	TT	CC	1946920052
SNP_P4_113717_9658	NW_004515690.1	Scaffold100	9658	CC	TT	1946920054
SNP_P4_113718_12636	NW_004515690.1	Scaffold100	12636	CC	TT	1946920056
SNP_P4_113719_13058	NW_004515690.1	Scaffold100	13058	TT	GG	1946920058
SNP_P4_113720_13107	NW_004515690.1	Scaffold100	13107	TT	AA	1946920060
SNP_P4_113721_14030	NW_004515690.1	Scaffold100	14030	TT	AA	1946920062
SNP_P4_113722_18759	NW_004515690.1	Scaffold100	18759	GG	AA	1946920064
SNP_P4_113723_18777	NW_004515690.1	Scaffold100	18777	CC	TT	1946920066
SNP_P4_113724_18779	NW_004515690.1	Scaffold100	18779	AA	GG	1946920068
SNP_P4_113725_18783	NW_004515690.1	Scaffold100	18783	TT	CC	1946920070
SNP_P4_113726_18789	NW_004515690.1	Scaffold100	18789	GG	AA	1946920072
SNP_P4_113727_18793	NW_004515690.1	Scaffold100	18793	TT	GG	1946920074

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_113729_18809	NW_004515690.1	Scaffold100	18809	AA	TT	1946920078
SNP_P4_113730_18882	NW_004515690.1	Scaffold100	18882	CC	TT	1946920080
SNP_P4_113731_19301	NW_004515690.1	Scaffold100	19301	GG	TT	1946920082
SNP_P4_113732_19643	NW_004515690.1	Scaffold100	19643	GG	AA	1946920084
SNP_P4_113733_48285	NW_004515690.1	Scaffold100	48285	GG	AA	1946920086
SNP_P4_113734_53545	NW_004515690.1	Scaffold100	53545	AA	GG	1946920088
SNP_P4_113735_53550	NW_004515690.1	Scaffold100	53550	TT	GG	1946920090
SNP_P4_113736_28429	NW_004515691.1	Scaffold102	28429	CC	TT	1946920092
SNP_P4_113737_53420	NW_004515691.1	Scaffold102	53420	GG	TT	1946920094
SNP_P4_113738_96224	NW_004515691.1	Scaffold102	96224	CC	TT	1946920096
SNP_P4_113739_104495	NW_004515691.1	Scaffold102	104495	TT	CC	1946920098
SNP_P4_113740_104695	NW_004515691.1	Scaffold102	104695	TT	CC	1946920100
SNP_P4_113741_104842	NW_004515691.1	Scaffold102	104842	CC	TT	1946920102
SNP_P4_113743_105031	NW_004515691.1	Scaffold102	105031	TT	CC	1946920105
SNP_P4_113744_105059	NW_004515691.1	Scaffold102	105059	AA	GG	1946920107
SNP_P4_113745_105064	NW_004515691.1	Scaffold102	105064	CC	TT	1946920109
SNP_P4_113746_109135	NW_004515691.1	Scaffold102	109135	AA	GG	1946920111
SNP_P4_113747_142423	NW_004515691.1	Scaffold102	142423	CC	AA	1946920113
SNP_P4_113748_142424	NW_004515691.1	Scaffold102	142424	AA	TT	1946920115
SNP_P4_113749_193	NW_004515692.1	Scaffold103	193	AA	GG	1946920117
SNP_P4_113750_297	NW_004515692.1	Scaffold103	297	TT	GG	1946920119
SNP_P4_113751_110	NW_004515693.1	Scaffold106	110	TT	GG	1946920121
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SNP_P4_113761_60768	NW_004515694.1	Scaffold109_1	60768	AA	GG	1946920139
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SNP_P4_113764_60837	NW_004515694.1	Scaffold109_1	60837	AA	CC	1946920145
SNP_P4_113765_60840	NW_004515694.1	Scaffold109_1	60840	TT	CC	1946920148
SNP_P4_113766_60850	NW_004515694.1	Scaffold109_1	60850	AA	TT	1946920150
SNP_P4_113767_60888	NW_004515694.1	Scaffold109_1	60888	TT	CC	1946920152
SNP_P4_113768_60922	NW_004515694.1	Scaffold109_1	60922	GG	AA	1946920154
SNP_P4_113769_60945	NW_004515694.1	Scaffold109_1	60945	TT	CC	1946920156
SNP_P4_113770_60970	NW_004515694.1	Scaffold109_1	60970	TT	AA	1946920158
SNP_P4_113771_61024	NW_004515694.1	Scaffold109_1	61024	CC	TT	1946920160

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_113773_61033	NW_004515694.1	Scaffold109_1	61033	CC	TT	1946920164
SNP_P4_113774_61051	NW_004515694.1	Scaffold109_1	61051	AA	CC	1946920166
SNP_P4_113775_61054	NW_004515694.1	Scaffold109_1	61054	AA	TT	1946920168
SNP_P4_113776_61114	NW_004515694.1	Scaffold109_1	61114	TT	CC	1946920170
SNP_P4_113777_61159	NW_004515694.1	Scaffold109_1	61159	GG	AA	1946920172
SNP_P4_113778_66745	NW_004515694.1	Scaffold109_1	66745	CC	TT	1946920174
SNP_P4_113779_66764	NW_004515694.1	Scaffold109_1	66764	GG	CC	1946920176
SNP_P4_113780_95531	NW_004515694.1	Scaffold109_1	95531	GG	TT	1946920178
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SNP_P4_113782_96036	NW_004515694.1	Scaffold109_1	96036	TT	CC	1946920183
SNP_P4_113783_96037	NW_004515694.1	Scaffold109_1	96037	CC	TT	1946920185
SNP_P4_113784_96056	NW_004515694.1	Scaffold109_1	96056	GG	AA	1946920187
SNP_P4_113785_105052	NW_004515694.1	Scaffold109_1	105052	CC	TT	1946920189
SNP_P4_113786_112269	NW_004515694.1	Scaffold109_1	112269	AA	GG	1946920191
SNP_P4_113787_122729	NW_004515694.1	Scaffold109_1	122729	TT	GG	1946920193
SNP_P4_113788_123646	NW_004515694.1	Scaffold109_1	123646	GG	AA	1946920195
SNP_P4_113790_137387	NW_004515694.1	Scaffold109_1	137387	TT	CC	1946920197
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SNP_P4_113801_160414	NW_004515694.1	Scaffold109_1	160414	TT	CC	1946920217
SNP_P4_113802_161506	NW_004515694.1	Scaffold109_1	161506	TT	AA	1946920219
SNP_P4_113805_210984	NW_004515694.1	Scaffold109_1	210984	TT	CC	1946920221
SNP_P4_113806_245825	NW_004515694.1	Scaffold109_1	245825	AA	GG	1946920223
SNP_P4_113807_245826	NW_004515694.1	Scaffold109_1	245826	AA	CC	1946920225
SNP_P4_113808_246815	NW_004515694.1	Scaffold109_1	246815	AA	GG	1946920227
SNP_P4_113809_246827	NW_004515694.1	Scaffold109_1	246827	CC	GG	1946920229
SNP_P4_113810_246847	NW_004515694.1	Scaffold109_1	246847	TT	GG	1946920231
SNP_P4_113811_246922	NW_004515694.1	Scaffold109_1	246922	AA	GG	1946920233
SNP_P4_113812_246924	NW_004515694.1	Scaffold109_1	246924	GG	AA	1946920235
SNP_P4_113813_246946	NW_004515694.1	Scaffold109_1	246946	TT	GG	1946920237
SNP_P4_113814_246970	NW_004515694.1	Scaffold109_1	246970	CC	TT	1946920239
SNP_P4_113815_247276	NW_004515694.1	Scaffold109_1	247276	AA	CC	1946920241
SNP_P4_113816_247313	NW_004515694.1	Scaffold109_1	247313	TT	CC	1946920243
SNP_P4_113817_247607	NW_004515694.1	Scaffold109_1	247607	TT	AA	1946920245

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_113819_248646	NW_004515694.1	Scaffold109_1	248646	AA	GG	1946920249
SNP_P4_113821_248900	NW_004515694.1	Scaffold109_1	248900	AA	GG	1946920252
SNP_P4_113822_277293	NW_004515694.1	Scaffold109_1	277293	AA	GG	1946920254
SNP_P4_113823_277552	NW_004515694.1	Scaffold109_1	277552	AA	GG	1946920256
SNP_P4_113824_281969	NW_004515694.1	Scaffold109_1	281969	CC	TT	1946920258
SNP_P4_113825_282662	NW_004515694.1	Scaffold109_1	282662	GG	AA	1946920260
SNP_P4_113826_314185	NW_004515694.1	Scaffold109_1	314185	TT	CC	1946920262
SNP_P4_113827_322992	NW_004515694.1	Scaffold109_1	322992	GG	AA	1946920264
SNP_P4_113828_336468	NW_004515694.1	Scaffold109_1	336468	TT	CC	1946920266
SNP_P4_113829_421233	NW_004515694.1	Scaffold109_1	421233	CC	TT	1946920268
SNP_P4_113830_450994	NW_004515694.1	Scaffold109_1	450994	CC	TT	1946920270
SNP_P4_113833_474741	NW_004515694.1	Scaffold109_1	474741	TT	CC	1946920272
SNP_P4_113835_495785	NW_004515694.1	Scaffold109_1	495785	TT	CC	1946920274
SNP_P4_113836_504436	NW_004515694.1	Scaffold109_1	504436	GG	AA	1946920276
SNP_P4_113837_504517	NW_004515694.1	Scaffold109_1	504517	TT	CC	1946920278
SNP_P4_113838_504541	NW_004515694.1	Scaffold109_1	504541	AA	TT	1946920280
SNP_P4_113839_504855	NW_004515694.1	Scaffold109_1	504855	AA	CC	1946920282
SNP_P4_113840_504878	NW_004515694.1	Scaffold109_1	504878	GG	TT	1946920284
SNP_P4_113841_504879	NW_004515694.1	Scaffold109_1	504879	TT	AA	1946920286
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SNP_P4_113843_504936	NW_004515694.1	Scaffold109_1	504936	TT	CC	1946920290
SNP_P4_113844_504939	NW_004515694.1	Scaffold109_1	504939	TT	GG	1946920292
SNP_P4_113845_517901	NW_004515694.1	Scaffold109_1	517901	CC	TT	1946920294
SNP_P4_113848_569506	NW_004515694.1	Scaffold109_1	569506	AA	GG	1946920296
SNP_P4_113849_569507	NW_004515694.1	Scaffold109_1	569507	TT	CC	1946920298
SNP_P4_113850_580850	NW_004515694.1	Scaffold109_1	580850	AA	CC	1946920300
SNP_P4_113851_593661	NW_004515694.1	Scaffold109_1	593661	TT	GG	1946920302
SNP_P4_113852_618759	NW_004515694.1	Scaffold109_1	618759	TT	CC	1946920304
SNP_P4_113854_647666	NW_004515694.1	Scaffold109_1	647666	AA	GG	1946920306
SNP_P4_113855_654244	NW_004515694.1	Scaffold109_1	654244	TT	CC	1946920308
SNP_P4_113856_654265	NW_004515694.1	Scaffold109_1	654265	GG	AA	1946920310
SNP_P4_113857_654327	NW_004515694.1	Scaffold109_1	654327	AA	GG	1946920312
SNP_P4_113858_654336	NW_004515694.1	Scaffold109_1	654336	AA	CC	1946920314
SNP_P4_113860_668720	NW_004515694.1	Scaffold109_1	668720	GG	AA	1946920316
SNP_P4_113861_670594	NW_004515694.1	Scaffold109_1	670594	AA	GG	1946920318
SNP_P4_113862_670597	NW_004515694.1	Scaffold109_1	670597	TT	AA	1946920320
SNP_P4_113863_684956	NW_004515694.1	Scaffold109_1	684956	AA	GG	1946920322
SNP_P4_113864_691466	NW_004515694.1	Scaffold109_1	691466	TT	CC	1946920324
SNP_P4_113865_724762	NW_004515694.1	Scaffold109_1	724762	CC	TT	1946920326
SNP_P4_113866_772896	NW_004515694.1	Scaffold109_1	772896	TT	CC	1946920328
SNP_P4_113867_776929	NW_004515694.1	Scaffold109_1	776929	TT	CC	1946920330

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_113869_788133	NW_004515694.1	Scaffold109_1	788133	TT	AA	1946920334
SNP_P4_113870_788134	NW_004515694.1	Scaffold109_1	788134	TT	AA	1946920336
SNP_P4_113871_793421	NW_004515694.1	Scaffold109_1	793421	TT	GG	1946920338
SNP_P4_113872_793422	NW_004515694.1	Scaffold109_1	793422	AA	GG	1946920340
SNP_P4_113874_802545	NW_004515694.1	Scaffold109_1	802545	TT	AA	1946920342
SNP_P4_113875_810599	NW_004515694.1	Scaffold109_1	810599	AA	CC	1946920344
SNP_P4_113876_826784	NW_004515694.1	Scaffold109_1	826784	TT	AA	1946920346
SNP_P4_113877_837111	NW_004515694.1	Scaffold109_1	837111	GG	AA	1946920348
SNP_P4_113878_837630	NW_004515694.1	Scaffold109_1	837630	TT	AA	1946920350
SNP_P4_113879_6067	NW_004515695.1	Scaffold110	6067	TT	CC	1946920352
SNP_P4_113880_99885	NW_004515696.1	Scaffold111	99885	CC	AA	1946920354
SNP_P4_113881_99886	NW_004515696.1	Scaffold111	99886	CC	AA	1946920356
SNP_P4_113882_99887	NW_004515696.1	Scaffold111	99887	TT	CC	1946920358
SNP_P4_113883_99889	NW_004515696.1	Scaffold111	99889	CC	AA	1946920360
SNP_P4_113884_99891	NW_004515696.1	Scaffold111	99891	CC	GG	1946920362
SNP_P4_113885_99919	NW_004515696.1	Scaffold111	99919	TT	CC	1946920364
SNP_P4_113886_99929	NW_004515696.1	Scaffold111	99929	AA	GG	1946920366
SNP_P4_113887_110620	NW_004515696.1	Scaffold111	110620	TT	CC	1946920368
SNP_P4_113888_131494	NW_004515696.1	Scaffold111	131494	TT	GG	1946920370
SNP_P4_113889_131495	NW_004515696.1	Scaffold111	131495	TT	CC	1946920372
SNP_P4_113890_3672	NW_004515697.1	Scaffold113	3672	TT	AA	1946920374
SNP_P4_113891_4037	NW_004515697.1	Scaffold113	4037	TT	CC	1946920376
SNP_P4_113892_4188	NW_004515697.1	Scaffold113	4188	AA	TT	1946920378
SNP_P4_113893_4196	NW_004515697.1	Scaffold113	4196	AA	TT	1946920380
SNP_P4_113894_1340	NW_004515698.1	Scaffold114	1340	AA	TT	1946920382
SNP_P4_113895_1341	NW_004515698.1	Scaffold114	1341	GG	AA	1946920384
SNP_P4_113896_1365	NW_004515698.1	Scaffold114	1365	AA	TT	1946920386
SNP_P4_113897_5106	NW_004515699.1	Scaffold115	5106	CC	GG	1946920388
SNP_P4_113898_8790	NW_004515699.1	Scaffold115	8790	CC	AA	1946920390
SNP_P4_113899_8817	NW_004515699.1	Scaffold115	8817	GG	AA	1946920392
SNP_P4_113900_9938	NW_004515699.1	Scaffold115	9938	GG	TT	1946920394
SNP_P4_113901_28542	NW_004515699.1	Scaffold115	28542	AA	CC	1946920396
SNP_P4_113902_37365	NW_004515699.1	Scaffold115	37365	TT	AA	1946920398
SNP_P4_113903_37367	NW_004515699.1	Scaffold115	37367	TT	CC	1946920400
SNP_P4_113904_45624	NW_004515699.1	Scaffold115	45624	AA	GG	1946920402
SNP_P4_113905_51824	NW_004515699.1	Scaffold115	51824	GG	AA	1946920404
SNP_P4_113906_52045	NW_004515699.1	Scaffold115	52045	CC	GG	1946920406
SNP_P4_113908_52231	NW_004515699.1	Scaffold115	52231	TT	AA	1946920408
SNP_P4_113909_52249	NW_004515699.1	Scaffold115	52249	TT	CC	1946920410
SNP_P4_113910_52259	NW_004515699.1	Scaffold115	52259	AA	CC	1946920412
SNP_P4_113911_52360	NW_004515699.1	Scaffold115	52360	CC	TT	1946920414

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_113913_52459	NW_004515699.1	Scaffold115	52459	CC	AA	1946920418
SNP_P4_113914_52467	NW_004515699.1	Scaffold115	52467	TT	AA	1946920420
SNP_P4_113915_52468	NW_004515699.1	Scaffold115	52468	AA	GG	1946920422
SNP_P4_113916_52551	NW_004515699.1	Scaffold115	52551	GG	TT	1946920424
SNP_P4_113917_52664	NW_004515699.1	Scaffold115	52664	AA	CC	1946920426
SNP_P4_113918_52824	NW_004515699.1	Scaffold115	52824	AA	GG	1946920428
SNP_P4_113919_52827	NW_004515699.1	Scaffold115	52827	GG	AA	1946920430
SNP_P4_113920_52939	NW_004515699.1	Scaffold115	52939	CC	TT	1946920432
SNP_P4_113921_52984	NW_004515699.1	Scaffold115	52984	GG	AA	1946920434
SNP_P4_113922_52993	NW_004515699.1	Scaffold115	52993	TT	AA	1946920436
SNP_P4_113923_53073	NW_004515699.1	Scaffold115	53073	TT	GG	1946920438
SNP_P4_113924_56838	NW_004515699.1	Scaffold115	56838	AA	CC	1946920440
SNP_P4_113925_26891	NW_004515700.1	Scaffold118	26891	CC	AA	1946920442
SNP_P4_113926_26926	NW_004515700.1	Scaffold118	26926	CC	GG	1946920444
SNP_P4_113927_27226	NW_004515700.1	Scaffold118	27226	AA	GG	1946920446
SNP_P4_113928_27241	NW_004515700.1	Scaffold118	27241	AA	GG	1946920448
SNP_P4_113929_30092	NW_004515700.1	Scaffold118	30092	AA	GG	1946920450
SNP_P4_113930_30169	NW_004515700.1	Scaffold118	30169	AA	GG	1946920452
SNP_P4_113931_30496	NW_004515700.1	Scaffold118	30496	GG	AA	1946920454
SNP_P4_113932_30534	NW_004515700.1	Scaffold118	30534	AA	GG	1946920456
SNP_P4_113933_30566	NW_004515700.1	Scaffold118	30566	TT	CC	1946920458
SNP_P4_113934_30642	NW_004515700.1	Scaffold118	30642	AA	GG	1946920460
SNP_P4_113935_30655	NW_004515700.1	Scaffold118	30655	TT	CC	1946920462
SNP_P4_113936_54488	NW_004515700.1	Scaffold118	54488	TT	GG	1946920464
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SNP_P4_113939_80598	NW_004515700.1	Scaffold118	80598	GG	AA	1946920469
SNP_P4_113941_113345	NW_004515700.1	Scaffold118	113345	CC	TT	1946920471
SNP_P4_113942_113357	NW_004515700.1	Scaffold118	113357	CC	TT	1946920473
SNP_P4_113943_113452	NW_004515700.1	Scaffold118	113452	TT	CC	1946920475
SNP_P4_113944_113471	NW_004515700.1	Scaffold118	113471	TT	CC	1946920477
SNP_P4_113945_113495	NW_004515700.1	Scaffold118	113495	CC	TT	1946920479
SNP_P4_113946_118255	NW_004515700.1	Scaffold118	118255	CC	AA	1946920481
SNP_P4_113947_118269	NW_004515700.1	Scaffold118	118269	GG	AA	1946920483
SNP_P4_113948_118597	NW_004515700.1	Scaffold118	118597	GG	AA	1946920485
SNP_P4_113949_118625	NW_004515700.1	Scaffold118	118625	TT	AA	1946920487
SNP_P4_113951_152723	NW_004515700.1	Scaffold118	152723	CC	TT	1946920489
SNP_P4_113952_152787	NW_004515700.1	Scaffold118	152787	TT	GG	1946920492
SNP_P4_113953_152809	NW_004515700.1	Scaffold118	152809	TT	GG	1946920494
SNP_P4_113954_171253	NW_004515700.1	Scaffold118	171253	TT	AA	1946920496
SNP_P4_113955_171646	NW_004515700.1	Scaffold118	171646	GG	AA	1946920498
SNP_P4_113956_173131	NW_004515700.1	Scaffold118	173131	CC	TT	1946920500

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_113960_178471	NW_004515700.1	Scaffold118	178471	AA	GG	1946920506
SNP_P4_113961_178477	NW_004515700.1	Scaffold118	178477	AA	GG	1946920508
SNP_P4_113962_178594	NW_004515700.1	Scaffold118	178594	GG	AA	1946920510
SNP_P4_113963_178861	NW_004515700.1	Scaffold118	178861	GG	TT	1946920512
SNP_P4_113964_188054	NW_004515700.1	Scaffold118	188054	GG	AA	1946920514
SNP_P4_113966_189274	NW_004515700.1	Scaffold118	189274	TT	GG	1946920516
SNP_P4_113967_228575	NW_004515700.1	Scaffold118	228575	CC	TT	1946920518
SNP_P4_113968_254846	NW_004515700.1	Scaffold118	254846	CC	AA	1946920520
SNP_P4_113969_273624	NW_004515700.1	Scaffold118	273624	TT	CC	1946920522
SNP_P4_113970_325953	NW_004515700.1	Scaffold118	325953	TT	CC	1946920524
SNP_P4_113971_394961	NW_004515700.1	Scaffold118	394961	GG	AA	1946920526
SNP_P4_113972_444973	NW_004515700.1	Scaffold118	444973	GG	AA	1946920528
SNP_P4_113973_461130	NW_004515700.1	Scaffold118	461130	AA	GG	1946920530
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SNP_P4_113976_463089	NW_004515700.1	Scaffold118	463089	AA	TT	1946920536
SNP_P4_113977_463287	NW_004515700.1	Scaffold118	463287	GG	AA	1946920538
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SNP_P4_113987_465896	NW_004515700.1	Scaffold118	465896	CC	GG	1946920558
SNP_P4_113988_466136	NW_004515700.1	Scaffold118	466136	TT	CC	1946920560
SNP_P4_113989_473241	NW_004515700.1	Scaffold118	473241	AA	GG	1946920562
SNP_P4_113990_516005	NW_004515700.1	Scaffold118	516005	CC	TT	1946920564
SNP_P4_113991_518881	NW_004515700.1	Scaffold118	518881	CC	AA	1946920566
SNP_P4_113992_518884	NW_004515700.1	Scaffold118	518884	TT	AA	1946920568
SNP_P4_113993_518887	NW_004515700.1	Scaffold118	518887	TT	GG	1946920570
SNP_P4_113994_518892	NW_004515700.1	Scaffold118	518892	TT	AA	1946920572
SNP_P4_113995_521255	NW_004515700.1	Scaffold118	521255	AA	GG	1946920574
SNP_P4_113996_526828	NW_004515700.1	Scaffold118	526828	AA	GG	1946920576
SNP_P4_113997_543524	NW_004515700.1	Scaffold118	543524	GG	AA	1946920578
SNP_P4_113998_544403	NW_004515700.1	Scaffold118	544403	AA	GG	1946920580
SNP_P4_113999_549965	NW_004515700.1	Scaffold118	549965	TT	CC	1946920582
SNP_P4_114000_549971	NW_004515700.1	Scaffold118	549971	GG	AA	1946920584

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_114002_554208	NW_004515700.1	Scaffold118	554208	AA	GG	1946920588
SNP_P4_114003_554214	NW_004515700.1	Scaffold118	554214	AA	GG	1946920590
SNP_P4_114004_554220	NW_004515700.1	Scaffold118	554220	CC	TT	1946920592
SNP_P4_114005_554227	NW_004515700.1	Scaffold118	554227	TT	CC	1946920594
SNP_P4_114006_554547	NW_004515700.1	Scaffold118	554547	CC	TT	1946920596
SNP_P4_114007_554588	NW_004515700.1	Scaffold118	554588	CC	TT	1946920598
SNP_P4_114008_557857	NW_004515700.1	Scaffold118	557857	TT	GG	1946920600
SNP_P4_114009_560636	NW_004515700.1	Scaffold118	560636	TT	CC	1946920602
SNP_P4_114010_560715	NW_004515700.1	Scaffold118	560715	AA	TT	1946920604
SNP_P4_114011_560885	NW_004515700.1	Scaffold118	560885	GG	AA	1946920606
SNP_P4_114012_560886	NW_004515700.1	Scaffold118	560886	GG	CC	1946920608
SNP_P4_114013_560891	NW_004515700.1	Scaffold118	560891	AA	GG	1946920610
SNP_P4_114014_560917	NW_004515700.1	Scaffold118	560917	GG	AA	1946920612
SNP_P4_114015_560930	NW_004515700.1	Scaffold118	560930	CC	TT	1946920614
SNP_P4_114016_587433	NW_004515700.1	Scaffold118	587433	CC	TT	1946920616
SNP_P4_114017_592054	NW_004515700.1	Scaffold118	592054	CC	AA	1946920618
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SNP_P4_114021_592467	NW_004515700.1	Scaffold118	592467	AA	CC	1946920624
SNP_P4_114022_593072	NW_004515700.1	Scaffold118	593072	GG	AA	1946920626
SNP_P4_114023_602162	NW_004515700.1	Scaffold118	602162	CC	TT	1946920628
SNP_P4_114024_642375	NW_004515700.1	Scaffold118	642375	AA	CC	1946920630
SNP_P4_114025_491	NW_004515701.1	Scaffold119	491	GG	AA	1946920632
SNP_P4_114026_533	NW_004515701.1	Scaffold119	533	CC	AA	1946920634
SNP_P4_114027_568	NW_004515701.1	Scaffold119	568	TT	CC	1946920636
SNP_P4_114028_585	NW_004515701.1	Scaffold119	585	TT	CC	1946920638
SNP_P4_114029_615	NW_004515701.1	Scaffold119	615	TT	GG	1946920640
SNP_P4_114030_15344	NW_004515701.1	Scaffold119	15344	AA	GG	1946920642
SNP_P4_114031_15674	NW_004515701.1	Scaffold119	15674	TT	GG	1946920644
SNP_P4_114032_16659	NW_004515701.1	Scaffold119	16659	CC	AA	1946920646
SNP_P4_114033_16902	NW_004515701.1	Scaffold119	16902	GG	AA	1946920648
SNP_P4_114034_17087	NW_004515701.1	Scaffold119	17087	TT	AA	1946920650
SNP_P4_114035_17237	NW_004515701.1	Scaffold119	17237	GG	AA	1946920652
SNP_P4_114036_17437	NW_004515701.1	Scaffold119	17437	GG	AA	1946920654
SNP_P4_114037_17487	NW_004515701.1	Scaffold119	17487	GG	AA	1946920656
SNP_P4_114038_17740	NW_004515701.1	Scaffold119	17740	AA	GG	1946920658
SNP_P4_114039_17977	NW_004515701.1	Scaffold119	17977	AA	TT	1946920660
SNP_P4_114041_18283	NW_004515701.1	Scaffold119	18283	TT	GG	1946920662
SNP_P4_114042_18354	NW_004515701.1	Scaffold119	18354	GG	CC	1946920664
SNP_P4_114043_21688	NW_004515701.1	Scaffold119	21688	TT	GG	1946920666
SNP_P4_114044_26547	NW_004515701.1	Scaffold119	26547	GG	AA	1946920668

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_114047_48137	NW_004515701.1	Scaffold119	48137	CC	TT	1946920672
SNP_P4_114048_48164	NW_004515701.1	Scaffold119	48164	TT	CC	1946920674
SNP_P4_114049_48211	NW_004515701.1	Scaffold119	48211	GG	AA	1946920676
SNP_P4_114050_48588	NW_004515701.1	Scaffold119	48588	TT	CC	1946920678
SNP_P4_114051_48605	NW_004515701.1	Scaffold119	48605	AA	GG	1946920681
SNP_P4_114052_49343	NW_004515701.1	Scaffold119	49343	CC	TT	1946920683
SNP_P4_114053_49355	NW_004515701.1	Scaffold119	49355	AA	GG	1946920685
SNP_P4_114054_52777	NW_004515701.1	Scaffold119	52777	TT	GG	1946920687
SNP_P4_114055_53067	NW_004515701.1	Scaffold119	53067	AA	GG	1946920689
SNP_P4_114056_53089	NW_004515701.1	Scaffold119	53089	CC	TT	1946920691
SNP_P4_114058_62321	NW_004515701.1	Scaffold119	62321	TT	CC	1946920693
SNP_P4_114059_69928	NW_004515701.1	Scaffold119	69928	GG	TT	1946920695
SNP_P4_114060_70308	NW_004515701.1	Scaffold119	70308	TT	CC	1946920697
SNP_P4_114061_70336	NW_004515701.1	Scaffold119	70336	CC	TT	1946920699
SNP_P4_114063_70851	NW_004515701.1	Scaffold119	70851	AA	TT	1946920701
SNP_P4_114064_71253	NW_004515701.1	Scaffold119	71253	GG	AA	1946920703
SNP_P4_114065_71263	NW_004515701.1	Scaffold119	71263	TT	AA	1946920705
SNP_P4_114066_71542	NW_004515701.1	Scaffold119	71542	GG	AA	1946920707
SNP_P4_114068_72145	NW_004515701.1	Scaffold119	72145	AA	CC	1946920709
SNP_P4_114069_72212	NW_004515701.1	Scaffold119	72212	CC	TT	1946920711
SNP_P4_114070_72221	NW_004515701.1	Scaffold119	72221	CC	TT	1946920713
SNP_P4_114071_75253	NW_004515701.1	Scaffold119	75253	AA	CC	1946920715
SNP_P4_114072_76638	NW_004515701.1	Scaffold119	76638	TT	GG	1946920717
SNP_P4_114073_76708	NW_004515701.1	Scaffold119	76708	GG	AA	1946920719
SNP_P4_114074_76710	NW_004515701.1	Scaffold119	76710	GG	AA	1946920721
SNP_P4_114075_76736	NW_004515701.1	Scaffold119	76736	GG	CC	1946920723
SNP_P4_114076_76788	NW_004515701.1	Scaffold119	76788	AA	GG	1946920725
SNP_P4_114077_2572	NW_004515702.1	Scaffold120	2572	TT	AA	1946920727
SNP_P4_114078_2689	NW_004515702.1	Scaffold120	2689	AA	GG	1946920729
SNP_P4_114079_2890	NW_004515702.1	Scaffold120	2890	AA	GG	1946920731
SNP_P4_114080_2903	NW_004515702.1	Scaffold120	2903	AA	CC	1946920733
SNP_P4_114081_5657	NW_004515702.1	Scaffold120	5657	AA	GG	1946920735
SNP_P4_114082_5659	NW_004515702.1	Scaffold120	5659	AA	GG	1946920737
SNP_P4_114083_5677	NW_004515702.1	Scaffold120	5677	CC	TT	1946920739
SNP_P4_114084_5682	NW_004515702.1	Scaffold120	5682	TT	CC	1946920741
SNP_P4_114085_5693	NW_004515702.1	Scaffold120	5693	CC	TT	1946920743
SNP_P4_114086_5695	NW_004515702.1	Scaffold120	5695	TT	CC	1946920745
SNP_P4_114087_5704	NW_004515702.1	Scaffold120	5704	CC	TT	1946920747
SNP_P4_114088_8638	NW_004515702.1	Scaffold120	8638	GG	AA	1946920749
SNP_P4_114089_12451	NW_004515702.1	Scaffold120	12451	AA	GG	1946920751
SNP_P4_114090_16170	NW_004515702.1	Scaffold120	16170	GG	AA	1946920753

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_114092_16472	NW_004515702.1	Scaffold120	16472	CC	TT	1946920757
SNP_P4_114093_11730	NW_004515703.1	Scaffold123	11730	CC	AA	1946920759
SNP_P4_114094_29129	NW_004515703.1	Scaffold123	29129	TT	AA	1946920761
SNP_P4_114095_33359	NW_004515703.1	Scaffold123	33359	AA	GG	1946920763
SNP_P4_114096_33511	NW_004515703.1	Scaffold123	33511	TT	AA	1946920765
SNP_P4_114097_33527	NW_004515703.1	Scaffold123	33527	TT	CC	1946920767
SNP_P4_114098_33532	NW_004515703.1	Scaffold123	33532	CC	TT	1946920769
SNP_P4_114099_33667	NW_004515703.1	Scaffold123	33667	CC	TT	1946920771
SNP_P4_114101_33714	NW_004515703.1	Scaffold123	33714	TT	CC	1946920773
SNP_P4_114102_33723	NW_004515703.1	Scaffold123	33723	AA	GG	1946920775
SNP_P4_114103_33724	NW_004515703.1	Scaffold123	33724	TT	AA	1946920777
SNP_P4_114104_33833	NW_004515703.1	Scaffold123	33833	GG	AA	1946920779
SNP_P4_114105_33840	NW_004515703.1	Scaffold123	33840	CC	TT	1946920781
SNP_P4_114106_34960	NW_004515703.1	Scaffold123	34960	CC	AA	1946920783
SNP_P4_114107_34967	NW_004515703.1	Scaffold123	34967	AA	GG	1946920785
SNP_P4_114108_35049	NW_004515703.1	Scaffold123	35049	AA	GG	1946920787
SNP_P4_114109_35093	NW_004515703.1	Scaffold123	35093	AA	GG	1946920789
SNP_P4_114110_35113	NW_004515703.1	Scaffold123	35113	TT	CC	1946920791
SNP_P4_114111_35186	NW_004515703.1	Scaffold123	35186	GG	AA	1946920793
SNP_P4_114112_35198	NW_004515703.1	Scaffold123	35198	GG	AA	1946920795
SNP_P4_114113_35372	NW_004515703.1	Scaffold123	35372	CC	AA	1946920797
SNP_P4_114114_35392	NW_004515703.1	Scaffold123	35392	GG	AA	1946920799
SNP_P4_114115_37517	NW_004515703.1	Scaffold123	37517	GG	CC	1946920801
SNP_P4_114116_37521	NW_004515703.1	Scaffold123	37521	GG	TT	1946920803
SNP_P4_114117_37541	NW_004515703.1	Scaffold123	37541	AA	GG	1946920805
SNP_P4_114118_37574	NW_004515703.1	Scaffold123	37574	GG	AA	1946920807
SNP_P4_114119_37578	NW_004515703.1	Scaffold123	37578	TT	GG	1946920809
SNP_P4_114120_37579	NW_004515703.1	Scaffold123	37579	CC	GG	1946920811
SNP_P4_114121_66627	NW_004515703.1	Scaffold123	66627	TT	CC	1946920814
SNP_P4_114122_66723	NW_004515703.1	Scaffold123	66723	TT	CC	1946920816
SNP_P4_114123_66799	NW_004515703.1	Scaffold123	66799	TT	CC	1946920818
SNP_P4_114124_66883	NW_004515703.1	Scaffold123	66883	TT	CC	1946920820
SNP_P4_114126_66937	NW_004515703.1	Scaffold123	66937	CC	AA	1946920822
SNP_P4_114127_66956	NW_004515703.1	Scaffold123	66956	TT	CC	1946920824
SNP_P4_114128_78669	NW_004515703.1	Scaffold123	78669	CC	AA	1946920827
SNP_P4_114129_98720	NW_004515703.1	Scaffold123	98720	TT	CC	1946920829
SNP_P4_114130_102094	NW_004515703.1	Scaffold123	102094	CC	GG	1946920831
SNP_P4_114131_136477	NW_004515703.1	Scaffold123	136477	AA	GG	1946920833
SNP_P4_114132_136825	NW_004515703.1	Scaffold123	136825	AA	GG	1946920835
SNP_P4_114133_141651	NW_004515703.1	Scaffold123	141651	AA	GG	1946920837
SNP_P4_114134_141701	NW_004515703.1	Scaffold123	141701	CC	TT	1946920839

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_114136_150543	NW_004515703.1	Scaffold123	150543	CC	TT	1946920843
SNP_P4_114137_150551	NW_004515703.1	Scaffold123	150551	GG	CC	1946920845
SNP_P4_114138_172547	NW_004515703.1	Scaffold123	172547	CC	TT	1946920847
SNP_P4_114139_211563	NW_004515703.1	Scaffold123	211563	TT	AA	1946920849
SNP_P4_114140_211776	NW_004515703.1	Scaffold123	211776	TT	CC	1946920851
SNP_P4_114141_266276	NW_004515703.1	Scaffold123	266276	CC	TT	1946920853
SNP_P4_114142_270060	NW_004515703.1	Scaffold123	270060	CC	TT	1946920855
SNP_P4_114143_270130	NW_004515703.1	Scaffold123	270130	TT	CC	1946920857
SNP_P4_114144_301048	NW_004515703.1	Scaffold123	301048	TT	CC	1946920860
SNP_P4_114145_301212	NW_004515703.1	Scaffold123	301212	GG	AA	1946920862
SNP_P4_114146_305438	NW_004515703.1	Scaffold123	305438	AA	GG	1946920864
SNP_P4_114147_305442	NW_004515703.1	Scaffold123	305442	AA	CC	1946920866
SNP_P4_114148_316126	NW_004515703.1	Scaffold123	316126	AA	GG	1946920868
SNP_P4_114149_316201	NW_004515703.1	Scaffold123	316201	AA	GG	1946920870
SNP_P4_114150_344064	NW_004515703.1	Scaffold123	344064	GG	AA	1946920872
SNP_P4_114151_344069	NW_004515703.1	Scaffold123	344069	TT	CC	1946920874
SNP_P4_114152_348074	NW_004515703.1	Scaffold123	348074	CC	AA	1946920876
SNP_P4_114153_348080	NW_004515703.1	Scaffold123	348080	TT	CC	1946920878
SNP_P4_114154_348660	NW_004515703.1	Scaffold123	348660	TT	CC	1946920880
SNP_P4_114155_391008	NW_004515703.1	Scaffold123	391008	AA	GG	1946920882
SNP_P4_114156_391412	NW_004515703.1	Scaffold123	391412	GG	AA	1946920884
SNP_P4_114157_3372	NW_004515705.1	Scaffold126	3372	CC	TT	1946920886
SNP_P4_114158_5786	NW_004515705.1	Scaffold126	5786	AA	GG	1946920888
SNP_P4_114159_5826	NW_004515705.1	Scaffold126	5826	TT	AA	1946920890
SNP_P4_114160_5856	NW_004515705.1	Scaffold126	5856	AA	TT	1946920892
SNP_P4_114161_6261	NW_004515705.1	Scaffold126	6261	AA	GG	1946920894
SNP_P4_114162_7711	NW_004515705.1	Scaffold126	7711	CC	TT	1946920896
SNP_P4_114163_12166	NW_004515705.1	Scaffold126	12166	CC	AA	1946920898
SNP_P4_114164_12284	NW_004515705.1	Scaffold126	12284	TT	CC	1946920900
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SNP_P4_114166_16344	NW_004515705.1	Scaffold126	16344	GG	AA	1946920904
SNP_P4_114167_16404	NW_004515705.1	Scaffold126	16404	TT	CC	1946920906
SNP_P4_114168_16716	NW_004515705.1	Scaffold126	16716	CC	GG	1946920908
SNP_P4_114169_610	NW_004515706.1	Scaffold127	610	TT	AA	1946920910
SNP_P4_114170_2864	NW_004515706.1	Scaffold127	2864	AA	CC	1946920912
SNP_P4_114172_5703	NW_004515706.1	Scaffold127	5703	TT	AA	1946920914
SNP_P4_114173_5709	NW_004515706.1	Scaffold127	5709	TT	CC	1946920916
SNP_P4_114174_15335	NW_004515706.1	Scaffold127	15335	TT	CC	1946920918
SNP_P4_114175_20213	NW_004515706.1	Scaffold127	20213	GG	TT	1946920920
SNP_P4_114176_20240	NW_004515706.1	Scaffold127	20240	GG	AA	1946920922
SNP_P4_114177_20247	NW_004515706.1	Scaffold127	20247	TT	GG	1946920924

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_114179_20274	NW_004515706.1	Scaffold127	20274	TT	AA	1946920928
SNP_P4_114180_20276	NW_004515706.1	Scaffold127	20276	TT	CC	1946920930
SNP_P4_114181_20277	NW_004515706.1	Scaffold127	20277	TT	CC	1946920932
SNP_P4_114182_20288	NW_004515706.1	Scaffold127	20288	TT	CC	1946920934
SNP_P4_114183_20289	NW_004515706.1	Scaffold127	20289	AA	CC	1946920936
SNP_P4_114184_20330	NW_004515706.1	Scaffold127	20330	AA	CC	1946920938
SNP_P4_114185_20347	NW_004515706.1	Scaffold127	20347	AA	GG	1946920940
SNP_P4_114186_20353	NW_004515706.1	Scaffold127	20353	CC	TT	1946920942
SNP_P4_114187_20367	NW_004515706.1	Scaffold127	20367	AA	CC	1946920944
SNP_P4_114188_20396	NW_004515706.1	Scaffold127	20396	TT	CC	1946920946
SNP_P4_114189_20421	NW_004515706.1	Scaffold127	20421	AA	GG	1946920948
SNP_P4_114191_20508	NW_004515706.1	Scaffold127	20508	CC	TT	1946920950
SNP_P4_114192_20555	NW_004515706.1	Scaffold127	20555	AA	GG	1946920953
SNP_P4_114193_43792	NW_004515706.1	Scaffold127	43792	AA	CC	1946920955
SNP_P4_114194_46724	NW_004515706.1	Scaffold127	46724	AA	GG	1946920957
SNP_P4_114195_46793	NW_004515706.1	Scaffold127	46793	TT	AA	1946920958
SNP_P4_114196_46836	NW_004515706.1	Scaffold127	46836	AA	GG	1946920960
SNP_P4_114197_47111	NW_004515706.1	Scaffold127	47111	TT	AA	1946920962
SNP_P4_114198_47122	NW_004515706.1	Scaffold127	47122	TT	CC	1946920964
SNP_P4_114199_47169	NW_004515706.1	Scaffold127	47169	CC	TT	1946920966
SNP_P4_114200_47517	NW_004515706.1	Scaffold127	47517	GG	AA	1946920968
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SNP_P4_114202_53483	NW_004515706.1	Scaffold127	53483	AA	GG	1946920972
SNP_P4_114203_53502	NW_004515706.1	Scaffold127	53502	GG	TT	1946920974
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SNP_P4_114205_53989	NW_004515706.1	Scaffold127	53989	AA	TT	1946920978
SNP_P4_114207_54097	NW_004515706.1	Scaffold127	54097	AA	TT	1946920980
SNP_P4_114208_54174	NW_004515706.1	Scaffold127	54174	CC	GG	1946920982
SNP_P4_114209_54728	NW_004515706.1	Scaffold127	54728	AA	TT	1946920984
SNP_P4_114210_54740	NW_004515706.1	Scaffold127	54740	AA	GG	1946920986
SNP_P4_114211_55117	NW_004515706.1	Scaffold127	55117	TT	CC	1946920989
SNP_P4_114212_69749	NW_004515706.1	Scaffold127	69749	GG	AA	1946920991
SNP_P4_114213_107368	NW_004515706.1	Scaffold127	107368	AA	GG	1946920993
SNP_P4_114215_127650	NW_004515706.1	Scaffold127	127650	GG	AA	1946920995
SNP_P4_114216_131756	NW_004515706.1	Scaffold127	131756	AA	GG	1946920997
SNP_P4_114217_131759	NW_004515706.1	Scaffold127	131759	TT	GG	1946920999
SNP_P4_114218_132064	NW_004515706.1	Scaffold127	132064	TT	CC	1946921001
SNP_P4_114219_135547	NW_004515706.1	Scaffold127	135547	TT	GG	1946921003
SNP_P4_114220_135809	NW_004515706.1	Scaffold127	135809	GG	AA	1946921005
SNP_P4_114221_135823	NW_004515706.1	Scaffold127	135823	TT	CC	1946921007
SNP_P4_114222_135892	NW_004515706.1	Scaffold127	135892	GG	AA	1946921009

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_114224_135973	NW_004515706.1	Scaffold127	135973	CC	TT	1946921013
SNP_P4_114225_135994	NW_004515706.1	Scaffold127	135994	TT	CC	1946921015
SNP_P4_114226_136033	NW_004515706.1	Scaffold127	136033	GG	AA	1946921017
SNP_P4_114227_136876	NW_004515706.1	Scaffold127	136876	AA	TT	1946921019
SNP_P4_114228_141595	NW_004515706.1	Scaffold127	141595	AA	GG	1946921021
SNP_P4_114229_141607	NW_004515706.1	Scaffold127	141607	AA	TT	1946921023
SNP_P4_114230_141907	NW_004515706.1	Scaffold127	141907	GG	AA	1946921025
SNP_P4_114231_141921	NW_004515706.1	Scaffold127	141921	GG	AA	1946921027
SNP_P4_114232_141923	NW_004515706.1	Scaffold127	141923	AA	CC	1946921029
SNP_P4_114233_141963	NW_004515706.1	Scaffold127	141963	TT	GG	1946921031
SNP_P4_114235_144628	NW_004515706.1	Scaffold127	144628	CC	AA	1946921033
SNP_P4_114236_159787	NW_004515706.1	Scaffold127	159787	AA	GG	1946921035
SNP_P4_114237_161714	NW_004515706.1	Scaffold127	161714	CC	GG	1946921037
SNP_P4_114238_164419	NW_004515706.1	Scaffold127	164419	TT	AA	1946921039
SNP_P4_114239_164420	NW_004515706.1	Scaffold127	164420	TT	CC	1946921041
SNP_P4_114240_165654	NW_004515706.1	Scaffold127	165654	GG	CC	1946921043
SNP_P4_114241_165928	NW_004515706.1	Scaffold127	165928	TT	AA	1946921045
SNP_P4_114242_166317	NW_004515706.1	Scaffold127	166317	TT	CC	1946921047
SNP_P4_114243_166324	NW_004515706.1	Scaffold127	166324	GG	TT	1946921049
SNP_P4_114244_166347	NW_004515706.1	Scaffold127	166347	AA	GG	1946921051
SNP_P4_114245_174840	NW_004515706.1	Scaffold127	174840	GG	TT	1946921053
SNP_P4_114246_184749	NW_004515706.1	Scaffold127	184749	AA	GG	1946921055
SNP_P4_114247_184763	NW_004515706.1	Scaffold127	184763	AA	TT	1946921057
SNP_P4_114248_184768	NW_004515706.1	Scaffold127	184768	TT	CC	1946921059
SNP_P4_114249_184777	NW_004515706.1	Scaffold127	184777	TT	CC	1946921061
SNP_P4_114250_184799	NW_004515706.1	Scaffold127	184799	TT	GG	1946921063
SNP_P4_114251_184819	NW_004515706.1	Scaffold127	184819	AA	GG	1946921065
SNP_P4_114252_184892	NW_004515706.1	Scaffold127	184892	CC	TT	1946921067
SNP_P4_114253_184898	NW_004515706.1	Scaffold127	184898	GG	CC	1946921069
SNP_P4_114254_184953	NW_004515706.1	Scaffold127	184953	TT	AA	1946921071
SNP_P4_114255_184979	NW_004515706.1	Scaffold127	184979	AA	GG	1946921073
SNP_P4_114256_185067	NW_004515706.1	Scaffold127	185067	TT	CC	1946921075
SNP_P4_114257_185201	NW_004515706.1	Scaffold127	185201	GG	AA	1946921077
SNP_P4_114258_193988	NW_004515706.1	Scaffold127	193988	CC	AA	1946921079
SNP_P4_114259_202097	NW_004515706.1	Scaffold127	202097	GG	AA	1946921081
SNP_P4_114260_216726	NW_004515706.1	Scaffold127	216726	GG	CC	1946921084
SNP_P4_114261_219249	NW_004515706.1	Scaffold127	219249	TT	CC	1946921086
SNP_P4_114262_225222	NW_004515706.1	Scaffold127	225222	GG	AA	1946921088
SNP_P4_114263_229456	NW_004515706.1	Scaffold127	229456	TT	CC	1946921090
SNP_P4_114264_229457	NW_004515706.1	Scaffold127	229457	AA	GG	1946921093
SNP_P4_114265_229469	NW_004515706.1	Scaffold127	229469	GG	AA	1946921095

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_114267_229517	NW_004515706.1	Scaffold127	229517	TT	GG	1946921099
SNP_P4_114268_230745	NW_004515706.1	Scaffold127	230745	CC	TT	1946921101
SNP_P4_114269_231141	NW_004515706.1	Scaffold127	231141	AA	TT	1946921103
SNP_P4_114270_231180	NW_004515706.1	Scaffold127	231180	AA	GG	1946921105
SNP_P4_114271_232071	NW_004515706.1	Scaffold127	232071	CC	TT	1946921107
SNP_P4_114272_232103	NW_004515706.1	Scaffold127	232103	AA	CC	1946921109
SNP_P4_114273_232149	NW_004515706.1	Scaffold127	232149	TT	CC	1946921111
SNP_P4_114274_232229	NW_004515706.1	Scaffold127	232229	CC	AA	1946921113
SNP_P4_114275_232643	NW_004515706.1	Scaffold127	232643	GG	AA	1946921115
SNP_P4_114276_237338	NW_004515706.1	Scaffold127	237338	GG	TT	1946921117
SNP_P4_114277_239950	NW_004515706.1	Scaffold127	239950	CC	AA	1946921119
SNP_P4_114278_239972	NW_004515706.1	Scaffold127	239972	GG	AA	1946921121
SNP_P4_114279_240057	NW_004515706.1	Scaffold127	240057	TT	GG	1946921123
SNP_P4_114280_240227	NW_004515706.1	Scaffold127	240227	TT	CC	1946921125
SNP_P4_114281_240276	NW_004515706.1	Scaffold127	240276	TT	AA	1946921127
SNP_P4_114282_240287	NW_004515706.1	Scaffold127	240287	CC	TT	1946921129
SNP_P4_114283_240296	NW_004515706.1	Scaffold127	240296	CC	AA	1946921131
SNP_P4_114284_240380	NW_004515706.1	Scaffold127	240380	GG	AA	1946921133
SNP_P4_114285_255784	NW_004515706.1	Scaffold127	255784	TT	CC	1946921135
SNP_P4_114286_256051	NW_004515706.1	Scaffold127	256051	AA	TT	1946921137
SNP_P4_114287_256064	NW_004515706.1	Scaffold127	256064	TT	CC	1946921139
SNP_P4_114288_256808	NW_004515706.1	Scaffold127	256808	AA	CC	1946921141
SNP_P4_114290_256867	NW_004515706.1	Scaffold127	256867	TT	CC	1946921143
SNP_P4_114291_265735	NW_004515706.1	Scaffold127	265735	TT	CC	1946921145
SNP_P4_114292_265873	NW_004515706.1	Scaffold127	265873	CC	TT	1946921147
SNP_P4_114293_270062	NW_004515706.1	Scaffold127	270062	GG	AA	1946921149
SNP_P4_114294_270087	NW_004515706.1	Scaffold127	270087	CC	GG	1946921151
SNP_P4_114295_270214	NW_004515706.1	Scaffold127	270214	GG	AA	1946921153
SNP_P4_114296_270264	NW_004515706.1	Scaffold127	270264	AA	CC	1946921155
SNP_P4_114297_270319	NW_004515706.1	Scaffold127	270319	AA	CC	1946921157
SNP_P4_114298_270342	NW_004515706.1	Scaffold127	270342	TT	CC	1946921159
SNP_P4_114299_270343	NW_004515706.1	Scaffold127	270343	CC	TT	1946921161
SNP_P4_114301_270518	NW_004515706.1	Scaffold127	270518	CC	GG	1946921164
SNP_P4_114302_270537	NW_004515706.1	Scaffold127	270537	AA	GG	1946921166
SNP_P4_114303_270776	NW_004515706.1	Scaffold127	270776	CC	AA	1946921168
SNP_P4_114304_270778	NW_004515706.1	Scaffold127	270778	AA	GG	1946921170
SNP_P4_114305_271175	NW_004515706.1	Scaffold127	271175	AA	TT	1946921172
SNP_P4_114306_271188	NW_004515706.1	Scaffold127	271188	CC	TT	1946921174
SNP_P4_114307_271194	NW_004515706.1	Scaffold127	271194	AA	CC	1946921176
SNP_P4_114308_271198	NW_004515706.1	Scaffold127	271198	TT	AA	1946921178
SNP_P4_114309_271206	NW_004515706.1	Scaffold127	271206	CC	TT	1946921180

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_114311_271234	NW_004515706.1	Scaffold127	271234	AA	TT	1946921185
SNP_P4_114312_276153	NW_004515706.1	Scaffold127	276153	GG	TT	1946921187
SNP_P4_114314_299486	NW_004515706.1	Scaffold127	299486	TT	CC	1946921189
SNP_P4_114315_299524	NW_004515706.1	Scaffold127	299524	AA	GG	1946921191
SNP_P4_114316_299553	NW_004515706.1	Scaffold127	299553	GG	CC	1946921193
SNP_P4_114317_299611	NW_004515706.1	Scaffold127	299611	AA	GG	1946921195
SNP_P4_114318_299723	NW_004515706.1	Scaffold127	299723	TT	CC	1946921197
SNP_P4_114319_304939	NW_004515706.1	Scaffold127	304939	AA	GG	1946921199
SNP_P4_114320_4033	NW_004515707.1	Scaffold128	4033	AA	GG	1946921201
SNP_P4_114321_5666	NW_004515707.1	Scaffold128	5666	AA	GG	1946921203
SNP_P4_114322_5961	NW_004515707.1	Scaffold128	5961	AA	CC	1946921205
SNP_P4_114323_6887	NW_004515707.1	Scaffold128	6887	CC	TT	1946921207
SNP_P4_114325_11266	NW_004515707.1	Scaffold128	11266	CC	TT	1946921209
SNP_P4_114326_12453	NW_004515707.1	Scaffold128	12453	AA	GG	1946921211
SNP_P4_114327_12477	NW_004515707.1	Scaffold128	12477	TT	GG	1946921213
SNP_P4_114328_12502	NW_004515707.1	Scaffold128	12502	TT	GG	1946921215
SNP_P4_114329_12697	NW_004515707.1	Scaffold128	12697	CC	TT	1946921217
SNP_P4_114330_12713	NW_004515707.1	Scaffold128	12713	GG	TT	1946921219
SNP_P4_114331_12976	NW_004515707.1	Scaffold128	12976	GG	AA	1946921221
SNP_P4_114332_14926	NW_004515707.1	Scaffold128	14926	AA	GG	1946921223
SNP_P4_114334_30958	NW_004515707.1	Scaffold128	30958	GG	AA	1946921225
SNP_P4_114335_30965	NW_004515707.1	Scaffold128	30965	GG	AA	1946921227
SNP_P4_114336_30971	NW_004515707.1	Scaffold128	30971	AA	GG	1946921229
SNP_P4_114337_31857	NW_004515707.1	Scaffold128	31857	AA	TT	1946921231
SNP_P4_114338_32595	NW_004515707.1	Scaffold128	32595	AA	GG	1946921233
SNP_P4_114339_32599	NW_004515707.1	Scaffold128	32599	CC	TT	1946921235
SNP_P4_114340_32691	NW_004515707.1	Scaffold128	32691	GG	CC	1946921237
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SNP_P4_114342_32767	NW_004515707.1	Scaffold128	32767	TT	CC	1946921241
SNP_P4_114343_32788	NW_004515707.1	Scaffold128	32788	TT	GG	1946921243
SNP_P4_114344_32836	NW_004515707.1	Scaffold128	32836	CC	AA	1946921245
SNP_P4_114345_51993	NW_004515707.1	Scaffold128	51993	GG	AA	1946921247
SNP_P4_114346_82555	NW_004515707.1	Scaffold128	82555	GG	AA	1946921249
SNP_P4_114347_88134	NW_004515707.1	Scaffold128	88134	TT	AA	1946921251
SNP_P4_114349_91905	NW_004515707.1	Scaffold128	91905	AA	GG	1946921253
SNP_P4_114350_92232	NW_004515707.1	Scaffold128	92232	CC	TT	1946921255
SNP_P4_114351_92245	NW_004515707.1	Scaffold128	92245	GG	AA	1946921257
SNP_P4_114353_174728	NW_004515707.1	Scaffold128	174728	TT	CC	1946921259
SNP_P4_114354_174730	NW_004515707.1	Scaffold128	174730	GG	AA	1946921261
SNP_P4_114356_177090	NW_004515707.1	Scaffold128	177090	CC	GG	1946921263
SNP_P4_114357_177109	NW_004515707.1	Scaffold128	177109	TT	AA	1946921265

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_114360_179013	NW_004515707.1	Scaffold128	179013	GG	AA	1946921270
SNP_P4_114361_179037	NW_004515707.1	Scaffold128	179037	CC	AA	1946921272
SNP_P4_114362_197778	NW_004515707.1	Scaffold128	197778	TT	GG	1946921273
SNP_P4_114363_197781	NW_004515707.1	Scaffold128	197781	TT	CC	1946921274
SNP_P4_114364_197803	NW_004515707.1	Scaffold128	197803	AA	GG	1946921275
SNP_P4_114365_205812	NW_004515707.1	Scaffold128	205812	TT	AA	1946921276
SNP_P4_114366_206133	NW_004515707.1	Scaffold128	206133	AA	GG	1946921278
SNP_P4_114368_230672	NW_004515707.1	Scaffold128	230672	TT	CC	1946921280
SNP_P4_114370_240687	NW_004515707.1	Scaffold128	240687	TT	CC	1946921282
SNP_P4_114371_240697	NW_004515707.1	Scaffold128	240697	AA	CC	1946921284
SNP_P4_114372_240700	NW_004515707.1	Scaffold128	240700	AA	GG	1946921286
SNP_P4_114373_240712	NW_004515707.1	Scaffold128	240712	TT	CC	1946921288
SNP_P4_114374_241067	NW_004515707.1	Scaffold128	241067	TT	CC	1946921290
SNP_P4_114376_256706	NW_004515707.1	Scaffold128	256706	GG	AA	1946921292
SNP_P4_114377_266459	NW_004515707.1	Scaffold128	266459	AA	GG	1946921294
SNP_P4_114378_266462	NW_004515707.1	Scaffold128	266462	GG	AA	1946921296
SNP_P4_114379_279112	NW_004515707.1	Scaffold128	279112	AA	GG	1946921298
SNP_P4_114380_279151	NW_004515707.1	Scaffold128	279151	AA	CC	1946921300
SNP_P4_114381_279406	NW_004515707.1	Scaffold128	279406	CC	AA	1946921302
SNP_P4_114382_285259	NW_004515707.1	Scaffold128	285259	GG	AA	1946921304
SNP_P4_114383_285399	NW_004515707.1	Scaffold128	285399	AA	GG	1946921306
SNP_P4_114385_344005	NW_004515707.1	Scaffold128	344005	CC	TT	1946921308
SNP_P4_114386_346201	NW_004515707.1	Scaffold128	346201	AA	GG	1946921310
SNP_P4_114387_346294	NW_004515707.1	Scaffold128	346294	CC	TT	1946921312
SNP_P4_114388_346336	NW_004515707.1	Scaffold128	346336	TT	CC	1946921314
SNP_P4_114389_346347	NW_004515707.1	Scaffold128	346347	TT	AA	1946921316
SNP_P4_114390_346379	NW_004515707.1	Scaffold128	346379	TT	GG	1946921318
SNP_P4_114391_346473	NW_004515707.1	Scaffold128	346473	GG	CC	1946921320
SNP_P4_114392_347542	NW_004515707.1	Scaffold128	347542	TT	CC	1946921322
SNP_P4_114393_350531	NW_004515707.1	Scaffold128	350531	CC	AA	1946921324
SNP_P4_114394_359104	NW_004515707.1	Scaffold128	359104	AA	GG	1946921326
SNP_P4_114395_362714	NW_004515707.1	Scaffold128	362714	GG	AA	1946921328
SNP_P4_114397_379798	NW_004515707.1	Scaffold128	379798	GG	AA	1946921330
SNP_P4_114398_379803	NW_004515707.1	Scaffold128	379803	GG	AA	1946921332
SNP_P4_114399_379926	NW_004515707.1	Scaffold128	379926	GG	TT	1946921334
SNP_P4_114400_393232	NW_004515707.1	Scaffold128	393232	CC	TT	1946921336
SNP_P4_114401_393384	NW_004515707.1	Scaffold128	393384	TT	CC	1946921338
SNP_P4_114402_393432	NW_004515707.1	Scaffold128	393432	GG	CC	1946921340
SNP_P4_114403_393433	NW_004515707.1	Scaffold128	393433	TT	AA	1946921342
SNP_P4_114404_393520	NW_004515707.1	Scaffold128	393520	AA	TT	1946921344

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_114406_404025	NW_004515707.1	Scaffold128	404025	CC	TT	1946921348
SNP_P4_114407_404123	NW_004515707.1	Scaffold128	404123	AA	GG	1946921350
SNP_P4_114408_404391	NW_004515707.1	Scaffold128	404391	CC	TT	1946921352
SNP_P4_114409_407777	NW_004515707.1	Scaffold128	407777	TT	CC	1946921354
SNP_P4_114410_417151	NW_004515707.1	Scaffold128	417151	CC	TT	1946921356
SNP_P4_114411_417273	NW_004515707.1	Scaffold128	417273	TT	AA	1946921358
SNP_P4_114412_429454	NW_004515707.1	Scaffold128	429454	TT	CC	1946921360
SNP_P4_114413_429459	NW_004515707.1	Scaffold128	429459	GG	TT	1946921362
SNP_P4_114414_430434	NW_004515707.1	Scaffold128	430434	GG	AA	1946921364
SNP_P4_114415_432378	NW_004515707.1	Scaffold128	432378	TT	CC	1946921366
SNP_P4_114416_437346	NW_004515707.1	Scaffold128	437346	AA	TT	1946921368
SNP_P4_114417_448594	NW_004515707.1	Scaffold128	448594	TT	AA	1946921370
SNP_P4_114418_450425	NW_004515707.1	Scaffold128	450425	CC	AA	1946921372
SNP_P4_114419_450490	NW_004515707.1	Scaffold128	450490	TT	AA	1946921374
SNP_P4_114420_450499	NW_004515707.1	Scaffold128	450499	TT	CC	1946921376
SNP_P4_114421_450548	NW_004515707.1	Scaffold128	450548	GG	AA	1946921378
SNP_P4_114422_450689	NW_004515707.1	Scaffold128	450689	TT	CC	1946921380
SNP_P4_114423_450707	NW_004515707.1	Scaffold128	450707	CC	TT	1946921382
SNP_P4_114424_450710	NW_004515707.1	Scaffold128	450710	TT	GG	1946921384
SNP_P4_114425_450713	NW_004515707.1	Scaffold128	450713	CC	TT	1946921386
SNP_P4_114426_450878	NW_004515707.1	Scaffold128	450878	AA	TT	1946921388
SNP_P4_114427_450890	NW_004515707.1	Scaffold128	450890	GG	AA	1946921390
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SNP_P4_114429_475659	NW_004515707.1	Scaffold128	475659	GG	TT	1946921394
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SNP_P4_114434_531933	NW_004515707.1	Scaffold128	531933	TT	CC	1946921404
SNP_P4_114435_532045	NW_004515707.1	Scaffold128	532045	TT	CC	1946921406
SNP_P4_114436_532049	NW_004515707.1	Scaffold128	532049	TT	CC	1946921408
SNP_P4_114437_532112	NW_004515707.1	Scaffold128	532112	GG	AA	1946921410
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SNP_P4_114439_532175	NW_004515707.1	Scaffold128	532175	TT	CC	1946921414
SNP_P4_114440_532227	NW_004515707.1	Scaffold128	532227	GG	TT	1946921416
SNP_P4_114441_537850	NW_004515707.1	Scaffold128	537850	TT	CC	1946921418
SNP_P4_114442_540359	NW_004515707.1	Scaffold128	540359	CC	TT	1946921420
SNP_P4_114443_540495	NW_004515707.1	Scaffold128	540495	TT	CC	1946921422
SNP_P4_114444_540569	NW_004515707.1	Scaffold128	540569	AA	GG	1946921424
SNP_P4_114445_540570	NW_004515707.1	Scaffold128	540570	CC	TT	1946921426
SNP_P4_114446_547218	NW_004515707.1	Scaffold128	547218	TT	AA	1946921428

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_114449_549987	NW_004515707.1	Scaffold128	549987	GG	AA	1946921432
SNP_P4_114450_550315	NW_004515707.1	Scaffold128	550315	TT	CC	1946921434
SNP_P4_114451_550338	NW_004515707.1	Scaffold128	550338	TT	CC	1946921436
SNP_P4_114452_554048	NW_004515707.1	Scaffold128	554048	AA	GG	1946921438
SNP_P4_114453_562004	NW_004515707.1	Scaffold128	562004	CC	TT	1946921440
SNP_P4_114454_577302	NW_004515707.1	Scaffold128	577302	GG	AA	1946921442
SNP_P4_114455_577407	NW_004515707.1	Scaffold128	577407	CC	TT	1946921444
SNP_P4_114456_578559	NW_004515707.1	Scaffold128	578559	TT	CC	1946921446
SNP_P4_114457_578870	NW_004515707.1	Scaffold128	578870	AA	GG	1946921448
SNP_P4_114458_580854	NW_004515707.1	Scaffold128	580854	GG	TT	1946921450
SNP_P4_114459_580935	NW_004515707.1	Scaffold128	580935	CC	TT	1946921452
SNP_P4_114460_581160	NW_004515707.1	Scaffold128	581160	CC	AA	1946921454
SNP_P4_114461_587403	NW_004515707.1	Scaffold128	587403	CC	TT	1946921456
SNP_P4_114462_587494	NW_004515707.1	Scaffold128	587494	AA	GG	1946921458
SNP_P4_114463_587604	NW_004515707.1	Scaffold128	587604	TT	AA	1946921460
SNP_P4_114464_587625	NW_004515707.1	Scaffold128	587625	TT	GG	1946921462
SNP_P4_114465_587711	NW_004515707.1	Scaffold128	587711	TT	AA	1946921464
SNP_P4_114466_587743	NW_004515707.1	Scaffold128	587743	TT	CC	1946921466
SNP_P4_114468_588109	NW_004515707.1	Scaffold128	588109	CC	TT	1946921468
SNP_P4_114469_588110	NW_004515707.1	Scaffold128	588110	GG	AA	1946921470
SNP_P4_114470_588111	NW_004515707.1	Scaffold128	588111	CC	AA	1946921472
SNP_P4_114471_588123	NW_004515707.1	Scaffold128	588123	TT	GG	1946921474
SNP_P4_114472_588124	NW_004515707.1	Scaffold128	588124	AA	GG	1946921476
SNP_P4_114473_588135	NW_004515707.1	Scaffold128	588135	AA	GG	1946921478
SNP_P4_114474_588145	NW_004515707.1	Scaffold128	588145	GG	AA	1946921480
SNP_P4_114475_611001	NW_004515707.1	Scaffold128	611001	GG	AA	1946921482
SNP_P4_114476_623946	NW_004515707.1	Scaffold128	623946	AA	GG	1946921484
SNP_P4_114477_667770	NW_004515707.1	Scaffold128	667770	GG	AA	1946921486
SNP_P4_114478_676539	NW_004515707.1	Scaffold128	676539	CC	TT	1946921488
SNP_P4_114479_678339	NW_004515707.1	Scaffold128	678339	AA	CC	1946921490
SNP_P4_114480_678359	NW_004515707.1	Scaffold128	678359	AA	CC	1946921492
SNP_P4_114481_689134	NW_004515707.1	Scaffold128	689134	AA	GG	1946921494
SNP_P4_114482_701124	NW_004515707.1	Scaffold128	701124	CC	TT	1946921496
SNP_P4_114483_701165	NW_004515707.1	Scaffold128	701165	CC	TT	1946921498
SNP_P4_114484_701256	NW_004515707.1	Scaffold128	701256	TT	CC	1946921500
SNP_P4_114485_711215	NW_004515707.1	Scaffold128	711215	GG	TT	1946921502
SNP_P4_114486_711255	NW_004515707.1	Scaffold128	711255	GG	AA	1946921504
SNP_P4_114487_711372	NW_004515707.1	Scaffold128	711372	AA	TT	1946921506
SNP_P4_114488_711377	NW_004515707.1	Scaffold128	711377	CC	GG	1946921508
SNP_P4_114489_711382	NW_004515707.1	Scaffold128	711382	TT	CC	1946921510
SNP_P4_114490_711394	NW_004515707.1	Scaffold128	711394	TT	CC	1946921512

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_114492_711639	NW_004515707.1	Scaffold128	711639	TT	CC	1946921516
SNP_P4_114493_711646	NW_004515707.1	Scaffold128	711646	AA	GG	1946921518
SNP_P4_114494_711678	NW_004515707.1	Scaffold128	711678	TT	GG	1946921520
SNP_P4_114495_711685	NW_004515707.1	Scaffold128	711685	CC	TT	1946921522
SNP_P4_114496_711773	NW_004515707.1	Scaffold128	711773	CC	TT	1946921524
SNP_P4_114497_719345	NW_004515707.1	Scaffold128	719345	TT	AA	1946921526
SNP_P4_114498_720025	NW_004515707.1	Scaffold128	720025	TT	CC	1946921528
SNP_P4_114499_720085	NW_004515707.1	Scaffold128	720085	GG	AA	1946921530
SNP_P4_114500_728234	NW_004515707.1	Scaffold128	728234	TT	AA	1946921531
SNP_P4_114501_729194	NW_004515707.1	Scaffold128	729194	AA	GG	1946921534
SNP_P4_114502_729770	NW_004515707.1	Scaffold128	729770	GG	AA	1946921536
SNP_P4_114503_732432	NW_004515707.1	Scaffold128	732432	AA	TT	1946921538
SNP_P4_114504_732465	NW_004515707.1	Scaffold128	732465	TT	CC	1946921540
SNP_P4_114505_732515	NW_004515707.1	Scaffold128	732515	AA	TT	1946921542
SNP_P4_114506_732575	NW_004515707.1	Scaffold128	732575	CC	TT	1946921544
SNP_P4_114507_732629	NW_004515707.1	Scaffold128	732629	GG	AA	1946921546
SNP_P4_114509_732718	NW_004515707.1	Scaffold128	732718	AA	GG	1946921548
SNP_P4_114510_732744	NW_004515707.1	Scaffold128	732744	GG	AA	1946921550
SNP_P4_114511_732772	NW_004515707.1	Scaffold128	732772	CC	AA	1946921552
SNP_P4_114512_732802	NW_004515707.1	Scaffold128	732802	AA	CC	1946921555
SNP_P4_114513_732818	NW_004515707.1	Scaffold128	732818	AA	TT	1946921557
SNP_P4_114514_737483	NW_004515707.1	Scaffold128	737483	CC	AA	1946921559
SNP_P4_114515_745711	NW_004515707.1	Scaffold128	745711	AA	GG	1946921561
SNP_P4_114516_746221	NW_004515707.1	Scaffold128	746221	GG	TT	1946921563
SNP_P4_114517_746773	NW_004515707.1	Scaffold128	746773	CC	GG	1946921565
SNP_P4_114519_747506	NW_004515707.1	Scaffold128	747506	AA	CC	1946921567
SNP_P4_114520_747693	NW_004515707.1	Scaffold128	747693	AA	GG	1946921569
SNP_P4_114521_747694	NW_004515707.1	Scaffold128	747694	TT	AA	1946921571
SNP_P4_114523_762351	NW_004515707.1	Scaffold128	762351	GG	CC	1946921573
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SNP_P4_114525_769736	NW_004515707.1	Scaffold128	769736	CC	TT	1946921577
SNP_P4_114526_813085	NW_004515707.1	Scaffold128	813085	AA	TT	1946921579
SNP_P4_114527_820564	NW_004515707.1	Scaffold128	820564	TT	CC	1946921581
SNP_P4_114528_820672	NW_004515707.1	Scaffold128	820672	GG	CC	1946921583
SNP_P4_114529_820681	NW_004515707.1	Scaffold128	820681	AA	TT	1946921585
SNP_P4_114530_820695	NW_004515707.1	Scaffold128	820695	AA	CC	1946921587
SNP_P4_114531_820697	NW_004515707.1	Scaffold128	820697	AA	CC	1946921589
SNP_P4_114533_820876	NW_004515707.1	Scaffold128	820876	TT	CC	1946921591
SNP_P4_114534_820932	NW_004515707.1	Scaffold128	820932	AA	GG	1946921593
SNP_P4_114535_820960	NW_004515707.1	Scaffold128	820960	TT	AA	1946921595
SNP_P4_114536_835803	NW_004515707.1	Scaffold128	835803	AA	GG	1946921597

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_114538_853456	NW_004515707.1	Scaffold128	853456	CC	TT	1946921601
SNP_P4_114540_859090	NW_004515707.1	Scaffold128	859090	AA	GG	1946921603
SNP_P4_114541_887432	NW_004515707.1	Scaffold128	887432	CC	GG	1946921605
SNP_P4_114543_12954	NW_004515708.1	Scaffold131	12954	AA	GG	1946921607
SNP_P4_114544_13002	NW_004515708.1	Scaffold131	13002	CC	TT	1946921609
SNP_P4_114545_13021	NW_004515708.1	Scaffold131	13021	TT	GG	1946921611
SNP_P4_114546_13026	NW_004515708.1	Scaffold131	13026	AA	GG	1946921613
SNP_P4_114547_13291	NW_004515708.1	Scaffold131	13291	TT	CC	1946921615
SNP_P4_114548_28346	NW_004515708.1	Scaffold131	28346	CC	AA	1946921617
SNP_P4_114549_28652	NW_004515708.1	Scaffold131	28652	AA	GG	1946921619
SNP_P4_114550_28753	NW_004515708.1	Scaffold131	28753	TT	CC	1946921621
SNP_P4_114551_28756	NW_004515708.1	Scaffold131	28756	TT	AA	1946921623
SNP_P4_114552_28784	NW_004515708.1	Scaffold131	28784	TT	CC	1946921625
SNP_P4_114553_28789	NW_004515708.1	Scaffold131	28789	AA	TT	1946921627
SNP_P4_114554_30329	NW_004515708.1	Scaffold131	30329	GG	TT	1946921629
SNP_P4_114555_30537	NW_004515708.1	Scaffold131	30537	TT	GG	1946921631
SNP_P4_114556_30610	NW_004515708.1	Scaffold131	30610	TT	AA	1946921633
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SNP_P4_114558_38213	NW_004515708.1	Scaffold131	38213	AA	TT	1946921637
SNP_P4_114559_38254	NW_004515708.1	Scaffold131	38254	AA	GG	1946921639
SNP_P4_114560_15710	NW_004515709.1	Scaffold132	15710	AA	TT	1946921641
SNP_P4_114561_30536	NW_004515709.1	Scaffold132	30536	TT	CC	1946921643
SNP_P4_114562_30556	NW_004515709.1	Scaffold132	30556	CC	AA	1946921645
SNP_P4_114563_41558	NW_004515709.1	Scaffold132	41558	AA	TT	1946921647
SNP_P4_114564_41654	NW_004515709.1	Scaffold132	41654	CC	TT	1946921649
SNP_P4_114565_41660	NW_004515709.1	Scaffold132	41660	TT	AA	1946921651
SNP_P4_114566_41673	NW_004515709.1	Scaffold132	41673	TT	GG	1946921653
SNP_P4_114567_41732	NW_004515709.1	Scaffold132	41732	GG	AA	1946921655
SNP_P4_114568_41755	NW_004515709.1	Scaffold132	41755	AA	GG	1946921657
SNP_P4_114569_41842	NW_004515709.1	Scaffold132	41842	AA	GG	1946921659
SNP_P4_114570_50661	NW_004515709.1	Scaffold132	50661	TT	CC	1946921661
SNP_P4_114571_54019	NW_004515709.1	Scaffold132	54019	TT	AA	1946921663
SNP_P4_114572_54050	NW_004515709.1	Scaffold132	54050	GG	CC	1946921665
SNP_P4_114573_54075	NW_004515709.1	Scaffold132	54075	GG	AA	1946921667
SNP_P4_114574_60629	NW_004515709.1	Scaffold132	60629	CC	TT	1946921669
SNP_P4_114575_60633	NW_004515709.1	Scaffold132	60633	TT	CC	1946921671
SNP_P4_114576_60722	NW_004515709.1	Scaffold132	60722	AA	GG	1946921673
SNP_P4_114577_60736	NW_004515709.1	Scaffold132	60736	TT	CC	1946921675
SNP_P4_114578_60737	NW_004515709.1	Scaffold132	60737	CC	TT	1946921677
SNP_P4_114579_60758	NW_004515709.1	Scaffold132	60758	TT	CC	1946921679
SNP_P4_114580_60759	NW_004515709.1	Scaffold132	60759	GG	AA	1946921681

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_114583_76420	NW_004515709.1	Scaffold132	76420	GG	CC	1946921687
SNP_P4_114584_87266	NW_004515709.1	Scaffold132	87266	GG	CC	1946921690
SNP_P4_114585_90425	NW_004515709.1	Scaffold132	90425	GG	AA	1946921692
SNP_P4_114586_94063	NW_004515709.1	Scaffold132	94063	AA	GG	1946921694
SNP_P4_114587_94655	NW_004515709.1	Scaffold132	94655	TT	CC	1946921696
SNP_P4_114588_98957	NW_004515709.1	Scaffold132	98957	TT	CC	1946921698
SNP_P4_114589_99343	NW_004515709.1	Scaffold132	99343	TT	CC	1946921700
SNP_P4_114590_112387	NW_004515709.1	Scaffold132	112387	AA	GG	1946921702
SNP_P4_114591_113944	NW_004515709.1	Scaffold132	113944	CC	GG	1946921704
SNP_P4_114592_128602	NW_004515709.1	Scaffold132	128602	TT	CC	1946921706
SNP_P4_114593_137190	NW_004515709.1	Scaffold132	137190	TT	GG	1946921709
SNP_P4_114594_137555	NW_004515709.1	Scaffold132	137555	GG	AA	1946921711
SNP_P4_114595_137567	NW_004515709.1	Scaffold132	137567	CC	TT	1946921713
SNP_P4_114596_152977	NW_004515709.1	Scaffold132	152977	CC	TT	1946921715
SNP_P4_114597_153109	NW_004515709.1	Scaffold132	153109	CC	TT	1946921717
SNP_P4_114598_153521	NW_004515709.1	Scaffold132	153521	TT	AA	1946921719
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SNP_P4_114600_160871	NW_004515709.1	Scaffold132	160871	AA	TT	1946921723
SNP_P4_114601_21113	NW_004515710.1	Scaffold133	21113	CC	AA	1946921725
SNP_P4_114602_21119	NW_004515710.1	Scaffold133	21119	CC	AA	1946921727
SNP_P4_114603_21131	NW_004515710.1	Scaffold133	21131	TT	CC	1946921729
SNP_P4_114604_17831	NW_004515711.1	Scaffold134	17831	TT	CC	1946921731
SNP_P4_114605_20476	NW_004515711.1	Scaffold134	20476	CC	TT	1946921733
SNP_P4_114606_30368	NW_004515711.1	Scaffold134	30368	CC	TT	1946921736
SNP_P4_114607_36583	NW_004515711.1	Scaffold134	36583	TT	GG	1946921738
SNP_P4_114609_50447	NW_004515711.1	Scaffold134	50447	TT	CC	1946921740
SNP_P4_114610_58328	NW_004515711.1	Scaffold134	58328	CC	TT	1946921742
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SNP_P4_114612_103248	NW_004515711.1	Scaffold134	103248	GG	AA	1946921746
SNP_P4_114613_161234	NW_004515711.1	Scaffold134	161234	AA	GG	1946921748
SNP_P4_114614_161303	NW_004515711.1	Scaffold134	161303	TT	CC	1946921750
SNP_P4_114615_161957	NW_004515711.1	Scaffold134	161957	GG	AA	1946921752
SNP_P4_114616_162029	NW_004515711.1	Scaffold134	162029	GG	AA	1946921754
SNP_P4_114617_166688	NW_004515711.1	Scaffold134	166688	TT	CC	1946921756
SNP_P4_114618_167551	NW_004515711.1	Scaffold134	167551	TT	CC	1946921758
SNP_P4_114619_172924	NW_004515711.1	Scaffold134	172924	GG	TT	1946921760
SNP_P4_114620_185675	NW_004515711.1	Scaffold134	185675	AA	TT	1946921762
SNP_P4_114621_198136	NW_004515711.1	Scaffold134	198136	TT	AA	1946921764
SNP_P4_114622_216401	NW_004515711.1	Scaffold134	216401	TT	CC	1946921766
SNP_P4_114624_266833	NW_004515711.1	Scaffold134	266833	GG	AA	1946921768

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_114626_279916	NW_004515711.1	Scaffold134	279916	CC	AA	1946921772
SNP_P4_114627_309381	NW_004515711.1	Scaffold134	309381	AA	CC	1946921774
SNP_P4_114628_323217	NW_004515711.1	Scaffold134	323217	TT	CC	1946921776
SNP_P4_114629_323238	NW_004515711.1	Scaffold134	323238	AA	GG	1946921778
SNP_P4_114630_323246	NW_004515711.1	Scaffold134	323246	TT	CC	1946921780
SNP_P4_114631_323258	NW_004515711.1	Scaffold134	323258	AA	GG	1946921782
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SNP_P4_114633_323381	NW_004515711.1	Scaffold134	323381	AA	GG	1946921787
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SNP_P4_114635_334340	NW_004515711.1	Scaffold134	334340	AA	GG	1946921791
SNP_P4_114636_334358	NW_004515711.1	Scaffold134	334358	CC	GG	1946921793
SNP_P4_114637_334384	NW_004515711.1	Scaffold134	334384	TT	CC	1946921795
SNP_P4_114638_334396	NW_004515711.1	Scaffold134	334396	TT	GG	1946921797
SNP_P4_114639_334539	NW_004515711.1	Scaffold134	334539	AA	GG	1946921799
SNP_P4_114640_334569	NW_004515711.1	Scaffold134	334569	GG	AA	1946921801
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SNP_P4_114642_334694	NW_004515711.1	Scaffold134	334694	AA	TT	1946921805
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SNP_P4_114653_364718	NW_004515711.1	Scaffold134	364718	AA	GG	1946921823
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SNP_P4_114656_364788	NW_004515711.1	Scaffold134	364788	AA	GG	1946921829
SNP_P4_114657_364832	NW_004515711.1	Scaffold134	364832	GG	AA	1946921831
SNP_P4_114658_364892	NW_004515711.1	Scaffold134	364892	TT	CC	1946921833
SNP_P4_114659_364915	NW_004515711.1	Scaffold134	364915	AA	CC	1946921835
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SNP_P4_114662_365236	NW_004515711.1	Scaffold134	365236	GG	TT	1946921839
SNP_P4_114663_365237	NW_004515711.1	Scaffold134	365237	AA	GG	1946921841
SNP_P4_114664_365424	NW_004515711.1	Scaffold134	365424	GG	TT	1946921843
SNP_P4_114665_399419	NW_004515711.1	Scaffold134	399419	TT	CC	1946921845
SNP_P4_114667_431774	NW_004515711.1	Scaffold134	431774	TT	CC	1946921847
SNP_P4_114668_447056	NW_004515711.1	Scaffold134	447056	CC	TT	1946921849
SNP_P4_114669_451490	NW_004515711.1	Scaffold134	451490	TT	GG	1946921851
SNP_P4_114670_451491	NW_004515711.1	Scaffold134	451491	AA	TT	1946921853

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_114673_459609	NW_004515711.1	Scaffold134	459609	GG	TT	1946921859
SNP_P4_114674_472556	NW_004515711.1	Scaffold134	472556	AA	CC	1946921861
SNP_P4_114675_489587	NW_004515711.1	Scaffold134	489587	GG	AA	1946921863
SNP_P4_114676_489638	NW_004515711.1	Scaffold134	489638	TT	CC	1946921865
SNP_P4_114677_556583	NW_004515711.1	Scaffold134	556583	AA	GG	1946921867
SNP_P4_114678_556589	NW_004515711.1	Scaffold134	556589	CC	TT	1946921869
SNP_P4_114679_556591	NW_004515711.1	Scaffold134	556591	AA	GG	1946921871
SNP_P4_114680_562765	NW_004515711.1	Scaffold134	562765	AA	TT	1946921874
SNP_P4_114681_564026	NW_004515711.1	Scaffold134	564026	AA	TT	1946921876
SNP_P4_114682_564146	NW_004515711.1	Scaffold134	564146	AA	GG	1946921878
SNP_P4_114683_260	NW_004515712.1	Scaffold135	260	TT	CC	1946921880
SNP_P4_114684_3480	NW_004515712.1	Scaffold135	3480	TT	CC	1946921882
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SNP_P4_114687_10411	NW_004515712.1	Scaffold135	10411	GG	TT	1946921886
SNP_P4_114689_11649	NW_004515712.1	Scaffold135	11649	CC	TT	1946921888
SNP_P4_114690_18301	NW_004515712.1	Scaffold135	18301	AA	CC	1946921890
SNP_P4_114691_53259	NW_004515712.1	Scaffold135	53259	TT	GG	1946921892
SNP_P4_114692_53295	NW_004515712.1	Scaffold135	53295	GG	CC	1946921894
SNP_P4_114693_56822	NW_004515712.1	Scaffold135	56822	AA	GG	1946921896
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SNP_P4_114696_57115	NW_004515712.1	Scaffold135	57115	CC	TT	1946921902
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SNP_P4_114701_57414	NW_004515712.1	Scaffold135	57414	TT	AA	1946921912
SNP_P4_114702_57421	NW_004515712.1	Scaffold135	57421	AA	TT	1946921914
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SNP_P4_114706_73638	NW_004515712.1	Scaffold135	73638	AA	GG	1946921922
SNP_P4_114707_73653	NW_004515712.1	Scaffold135	73653	TT	GG	1946921924
SNP_P4_114708_73656	NW_004515712.1	Scaffold135	73656	CC	TT	1946921926
SNP_P4_114709_73775	NW_004515712.1	Scaffold135	73775	CC	GG	1946921928
SNP_P4_114710_74063	NW_004515712.1	Scaffold135	74063	CC	TT	1946921930
SNP_P4_114711_74064	NW_004515712.1	Scaffold135	74064	AA	GG	1946921932
SNP_P4_114712_95342	NW_004515712.1	Scaffold135	95342	TT	CC	1946921934
SNP_P4_114713_95464	NW_004515712.1	Scaffold135	95464	CC	TT	1946921936
SNP_P4_114714_95633	NW_004515712.1	Scaffold135	95633	AA	TT	1946921938

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_114717_95962	NW_004515712.1	Scaffold135	95962	CC	AA	1946921944
SNP_P4_114718_96032	NW_004515712.1	Scaffold135	96032	AA	TT	1946921946
SNP_P4_114720_96427	NW_004515712.1	Scaffold135	96427	AA	GG	1946921948
SNP_P4_114721_96464	NW_004515712.1	Scaffold135	96464	CC	AA	1946921950
SNP_P4_114722_113198	NW_004515712.1	Scaffold135	113198	GG	AA	1946921952
SNP_P4_114724_115487	NW_004515712.1	Scaffold135	115487	TT	CC	1946921954
SNP_P4_114725_115594	NW_004515712.1	Scaffold135	115594	TT	CC	1946921957
SNP_P4_114726_115603	NW_004515712.1	Scaffold135	115603	TT	CC	1946921959
SNP_P4_114727_115623	NW_004515712.1	Scaffold135	115623	TT	CC	1946921961
SNP_P4_114728_115625	NW_004515712.1	Scaffold135	115625	AA	TT	1946921963
SNP_P4_114729_115627	NW_004515712.1	Scaffold135	115627	TT	AA	1946921965
SNP_P4_114730_115629	NW_004515712.1	Scaffold135	115629	GG	AA	1946921967
SNP_P4_114731_115717	NW_004515712.1	Scaffold135	115717	CC	TT	1946921969
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SNP_P4_114734_115923	NW_004515712.1	Scaffold135	115923	CC	TT	1946921975
SNP_P4_114735_115924	NW_004515712.1	Scaffold135	115924	AA	GG	1946921977
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SNP_P4_114737_1164	NW_004515713.1	Scaffold136	1164	AA	TT	1946921981
SNP_P4_114738_19772	NW_004515713.1	Scaffold136	19772	GG	AA	1946921983
SNP_P4_114739_34863	NW_004515713.1	Scaffold136	34863	CC	TT	1946921985
SNP_P4_114740_45917	NW_004515713.1	Scaffold136	45917	AA	TT	1946921987
SNP_P4_114741_49366	NW_004515713.1	Scaffold136	49366	CC	TT	1946921989
SNP_P4_114742_52985	NW_004515713.1	Scaffold136	52985	TT	GG	1946921991
SNP_P4_114743_2357	NW_004515715.1	Scaffold140	2357	TT	CC	1946921993
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SNP_P4_114746_5718	NW_004515715.1	Scaffold140	5718	CC	AA	1946921997
SNP_P4_114747_6073	NW_004515715.1	Scaffold140	6073	TT	CC	1946921999
SNP_P4_114748_6115	NW_004515715.1	Scaffold140	6115	AA	GG	1946922001
SNP_P4_114749_7442	NW_004515715.1	Scaffold140	7442	TT	CC	1946922003
SNP_P4_114750_7734	NW_004515715.1	Scaffold140	7734	TT	GG	1946922005
SNP_P4_114751_7750	NW_004515715.1	Scaffold140	7750	AA	GG	1946922007
SNP_P4_114752_7776	NW_004515715.1	Scaffold140	7776	CC	TT	1946922009
SNP_P4_114753_7794	NW_004515715.1	Scaffold140	7794	GG	AA	1946922012
SNP_P4_114754_7821	NW_004515715.1	Scaffold140	7821	CC	TT	1946922014
SNP_P4_114755_15962	NW_004515715.1	Scaffold140	15962	AA	TT	1946922016
SNP_P4_114756_16270	NW_004515715.1	Scaffold140	16270	GG	AA	1946922018
SNP_P4_114757_24573	NW_004515715.1	Scaffold140	24573	TT	CC	1946922020
SNP_P4_114758_24637	NW_004515715.1	Scaffold140	24637	TT	CC	1946922022
SNP_P4_114759_25001	NW_004515715.1	Scaffold140	25001	AA	GG	1946922024

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_114762_25822	NW_004515715.1	Scaffold140	25822	GG	AA	1946922028
SNP_P4_114763_25823	NW_004515715.1	Scaffold140	25823	TT	GG	1946922030
SNP_P4_114764_26087	NW_004515715.1	Scaffold140	26087	TT	GG	1946922032
SNP_P4_114765_26443	NW_004515715.1	Scaffold140	26443	AA	GG	1946922034
SNP_P4_114766_26496	NW_004515715.1	Scaffold140	26496	AA	GG	1946922036
SNP_P4_114767_27260	NW_004515715.1	Scaffold140	27260	AA	GG	1946922038
SNP_P4_114768_27358	NW_004515715.1	Scaffold140	27358	TT	GG	1946922040
SNP_P4_114769_27601	NW_004515715.1	Scaffold140	27601	GG	AA	1946922042
SNP_P4_114770_36798	NW_004515715.1	Scaffold140	36798	AA	TT	1946922044
SNP_P4_114771_37034	NW_004515715.1	Scaffold140	37034	TT	CC	1946922046
SNP_P4_114772_37135	NW_004515715.1	Scaffold140	37135	TT	AA	1946922048
SNP_P4_114773_37256	NW_004515715.1	Scaffold140	37256	AA	TT	1946922050
SNP_P4_114774_37293	NW_004515715.1	Scaffold140	37293	AA	GG	1946922052
SNP_P4_114775_49668	NW_004515715.1	Scaffold140	49668	GG	TT	1946922054
SNP_P4_114776_49670	NW_004515715.1	Scaffold140	49670	TT	CC	1946922056
SNP_P4_114777_49678	NW_004515715.1	Scaffold140	49678	AA	TT	1946922058
SNP_P4_114778_52033	NW_004515715.1	Scaffold140	52033	GG	AA	1946922060
SNP_P4_114779_11725	NW_004515716.1	Scaffold141	11725	GG	AA	1946922062
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SNP_P4_114783_14090	NW_004515716.1	Scaffold141	14090	CC	TT	1946922070
SNP_P4_114784_14442	NW_004515716.1	Scaffold141	14442	TT	CC	1946922072
SNP_P4_114785_15781	NW_004515716.1	Scaffold141	15781	AA	GG	1946922074
SNP_P4_114786_15983	NW_004515716.1	Scaffold141	15983	GG	AA	1946922076
SNP_P4_114787_16225	NW_004515716.1	Scaffold141	16225	GG	AA	1946922078
SNP_P4_114788_16298	NW_004515716.1	Scaffold141	16298	CC	GG	1946922080
SNP_P4_114789_16385	NW_004515716.1	Scaffold141	16385	AA	TT	1946922082
SNP_P4_114790_16866	NW_004515716.1	Scaffold141	16866	CC	TT	1946922084
SNP_P4_114791_16991	NW_004515716.1	Scaffold141	16991	AA	GG	1946922086
SNP_P4_114792_18079	NW_004515716.1	Scaffold141	18079	CC	TT	1946922088
SNP_P4_114793_18408	NW_004515716.1	Scaffold141	18408	CC	GG	1946922091
SNP_P4_114794_18620	NW_004515716.1	Scaffold141	18620	CC	TT	1946922093
SNP_P4_114795_29637	NW_004515716.1	Scaffold141	29637	GG	AA	1946922095
SNP_P4_114796_48432	NW_004515716.1	Scaffold141	48432	TT	GG	1946922097
SNP_P4_114797_48468	NW_004515716.1	Scaffold141	48468	AA	GG	1946922099
SNP_P4_114798_48634	NW_004515716.1	Scaffold141	48634	AA	GG	1946922101
SNP_P4_114799_48635	NW_004515716.1	Scaffold141	48635	AA	CC	1946922103
SNP_P4_114800_48685	NW_004515716.1	Scaffold141	48685	TT	CC	1946922105
SNP_P4_114801_50327	NW_004515716.1	Scaffold141	50327	GG	TT	1946922107
SNP_P4_114802_55914	NW_004515716.1	Scaffold141	55914	TT	CC	1946922109

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_114805_56419	NW_004515716.1	Scaffold141	56419	AA	GG	1946922115
SNP_P4_114806_56426	NW_004515716.1	Scaffold141	56426	CC	AA	1946922117
SNP_P4_114807_66968	NW_004515716.1	Scaffold141	66968	AA	CC	1946922119
SNP_P4_114808_67014	NW_004515716.1	Scaffold141	67014	AA	CC	1946922122
SNP_P4_114809_67060	NW_004515716.1	Scaffold141	67060	AA	GG	1946922124
SNP_P4_114810_67171	NW_004515716.1	Scaffold141	67171	TT	CC	1946922126
SNP_P4_114811_67226	NW_004515716.1	Scaffold141	67226	AA	CC	1946922128
SNP_P4_114812_67232	NW_004515716.1	Scaffold141	67232	TT	AA	1946922130
SNP_P4_114814_68708	NW_004515716.1	Scaffold141	68708	CC	TT	1946922132
SNP_P4_114815_68712	NW_004515716.1	Scaffold141	68712	GG	AA	1946922134
SNP_P4_114816_68875	NW_004515716.1	Scaffold141	68875	GG	TT	1946922136
SNP_P4_114817_69214	NW_004515716.1	Scaffold141	69214	AA	TT	1946922138
SNP_P4_114818_69215	NW_004515716.1	Scaffold141	69215	TT	GG	1946922140
SNP_P4_114819_76446	NW_004515716.1	Scaffold141	76446	TT	AA	1946922142
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SNP_P4_114827_85298	NW_004515716.1	Scaffold141	85298	AA	TT	1946922156
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SNP_P4_114829_102239	NW_004515716.1	Scaffold141	102239	CC	GG	1946922160
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SNP_P4_114833_118068	NW_004515716.1	Scaffold141	118068	CC	TT	1946922168
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SNP_P4_114836_119055	NW_004515716.1	Scaffold141	119055	GG	AA	1946922174
SNP_P4_114837_119080	NW_004515716.1	Scaffold141	119080	TT	AA	1946922176
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SNP_P4_114842_133150	NW_004515716.1	Scaffold141	133150	TT	GG	1946922186
SNP_P4_114843_133166	NW_004515716.1	Scaffold141	133166	CC	TT	1946922188
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SNP_P4_114845_133184	NW_004515716.1	Scaffold141	133184	TT	CC	1946922192
SNP_P4_114846_133237	NW_004515716.1	Scaffold141	133237	AA	CC	1946922194

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_114848_138695	NW_004515716.1	Scaffold141	138695	GG	TT	1946922198
SNP_P4_114849_139458	NW_004515716.1	Scaffold141	139458	CC	AA	1946922200
SNP_P4_114850_139720	NW_004515716.1	Scaffold141	139720	AA	GG	1946922202
SNP_P4_114851_139790	NW_004515716.1	Scaffold141	139790	AA	GG	1946922204
SNP_P4_114852_139806	NW_004515716.1	Scaffold141	139806	TT	GG	1946922206
SNP_P4_114853_139821	NW_004515716.1	Scaffold141	139821	TT	CC	1946922208
SNP_P4_114854_139829	NW_004515716.1	Scaffold141	139829	AA	GG	1946922211
SNP_P4_114855_139844	NW_004515716.1	Scaffold141	139844	TT	AA	1946922213
SNP_P4_114856_139862	NW_004515716.1	Scaffold141	139862	TT	GG	1946922215
SNP_P4_114857_139951	NW_004515716.1	Scaffold141	139951	TT	CC	1946922217
SNP_P4_114858_140185	NW_004515716.1	Scaffold141	140185	TT	GG	1946922219
SNP_P4_114859_140750	NW_004515716.1	Scaffold141	140750	TT	CC	1946922221
SNP_P4_114860_146722	NW_004515716.1	Scaffold141	146722	AA	GG	1946922223
SNP_P4_114861_146857	NW_004515716.1	Scaffold141	146857	TT	CC	1946922225
SNP_P4_114862_146900	NW_004515716.1	Scaffold141	146900	GG	TT	1946922227
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SNP_P4_114873_172136	NW_004515716.1	Scaffold141	172136	AA	GG	1946922249
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SNP_P4_114877_174698	NW_004515716.1	Scaffold141	174698	AA	GG	1946922257
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SNP_P4_114886_14083	NW_004515718.1	Scaffold143	14083	GG	AA	1946922272
SNP_P4_114887_14103	NW_004515718.1	Scaffold143	14103	TT	CC	1946922274
SNP_P4_114888_22047	NW_004515718.1	Scaffold143	22047	GG	AA	1946922276
SNP_P4_114889_29228	NW_004515718.1	Scaffold143	29228	TT	CC	1946922278
SNP_P4_114890_31800	NW_004515718.1	Scaffold143	31800	AA	GG	1946922280

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_114893_35189	NW_004515718.1	Scaffold143	35189	CC	TT	1946922286
SNP_P4_114894_44090	NW_004515718.1	Scaffold143	44090	CC	TT	1946922288
SNP_P4_114895_63639	NW_004515718.1	Scaffold143	63639	CC	TT	1946922290
SNP_P4_114896_67165	NW_004515718.1	Scaffold143	67165	TT	AA	1946922292
SNP_P4_114897_67418	NW_004515718.1	Scaffold143	67418	TT	CC	1946922294
SNP_P4_114898_67472	NW_004515718.1	Scaffold143	67472	AA	GG	1946922296
SNP_P4_114900_67536	NW_004515718.1	Scaffold143	67536	AA	TT	1946922298
SNP_P4_114901_67543	NW_004515718.1	Scaffold143	67543	CC	TT	1946922300
SNP_P4_114902_67578	NW_004515718.1	Scaffold143	67578	CC	TT	1946922302
SNP_P4_114903_67679	NW_004515718.1	Scaffold143	67679	AA	TT	1946922304
SNP_P4_114904_67698	NW_004515718.1	Scaffold143	67698	AA	TT	1946922306
SNP_P4_114906_67949	NW_004515718.1	Scaffold143	67949	AA	GG	1946922308
SNP_P4_114907_67988	NW_004515718.1	Scaffold143	67988	TT	GG	1946922311
SNP_P4_114908_68042	NW_004515718.1	Scaffold143	68042	CC	TT	1946922313
SNP_P4_114909_68057	NW_004515718.1	Scaffold143	68057	AA	TT	1946922315
SNP_P4_114910_68074	NW_004515718.1	Scaffold143	68074	AA	TT	1946922317
SNP_P4_114911_68092	NW_004515718.1	Scaffold143	68092	TT	GG	1946922319
SNP_P4_114912_68128	NW_004515718.1	Scaffold143	68128	AA	GG	1946922321
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SNP_P4_114914_84191	NW_004515718.1	Scaffold143	84191	GG	AA	1946922325
SNP_P4_114915_85250	NW_004515718.1	Scaffold143	85250	CC	TT	1946922327
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SNP_P4_114917_110976	NW_004515718.1	Scaffold143	110976	TT	CC	1946922331
SNP_P4_114918_110977	NW_004515718.1	Scaffold143	110977	GG	AA	1946922333
SNP_P4_114919_110984	NW_004515718.1	Scaffold143	110984	CC	TT	1946922335
SNP_P4_114920_112501	NW_004515718.1	Scaffold143	112501	CC	GG	1946922337
SNP_P4_114921_121417	NW_004515718.1	Scaffold143	121417	GG	AA	1946922339
SNP_P4_114922_124538	NW_004515718.1	Scaffold143	124538	AA	GG	1946922341
SNP_P4_114923_124818	NW_004515718.1	Scaffold143	124818	GG	TT	1946922343
SNP_P4_114924_124820	NW_004515718.1	Scaffold143	124820	CC	TT	1946922345
SNP_P4_114925_125371	NW_004515718.1	Scaffold143	125371	TT	AA	1946922347
SNP_P4_114926_136345	NW_004515718.1	Scaffold143	136345	TT	GG	1946922349
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SNP_P4_114929_152887	NW_004515718.1	Scaffold143	152887	TT	CC	1946922355
SNP_P4_114931_167407	NW_004515718.1	Scaffold143	167407	AA	GG	1946922357
SNP_P4_114932_167434	NW_004515718.1	Scaffold143	167434	AA	GG	1946922359
SNP_P4_114933_182407	NW_004515718.1	Scaffold143	182407	GG	AA	1946922361
SNP_P4_114934_205667	NW_004515718.1	Scaffold143	205667	TT	AA	1946922363
SNP_P4_114935_227120	NW_004515718.1	Scaffold143	227120	GG	AA	1946922365

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_114938_231083	NW_004515718.1	Scaffold143	231083	AA	GG	1946922371
SNP_P4_114939_234047	NW_004515718.1	Scaffold143	234047	CC	TT	1946922372
SNP_P4_114940_786	NW_004515719.1	Scaffold144	786	CC	TT	1946922373
SNP_P4_114941_852	NW_004515719.1	Scaffold144	852	TT	AA	1946922374
SNP_P4_114942_1790	NW_004515719.1	Scaffold144	1790	AA	CC	1946922375
SNP_P4_114943_2842	NW_004515719.1	Scaffold144	2842	CC	TT	1946922377
SNP_P4_114944_3666	NW_004515719.1	Scaffold144	3666	TT	GG	1946922379
SNP_P4_114945_3864	NW_004515719.1	Scaffold144	3864	GG	CC	1946922381
SNP_P4_114946_3882	NW_004515719.1	Scaffold144	3882	TT	AA	1946922383
SNP_P4_114947_4028	NW_004515719.1	Scaffold144	4028	AA	CC	1946922385
SNP_P4_114948_4788	NW_004515719.1	Scaffold144	4788	GG	AA	1946922387
SNP_P4_114949_4819	NW_004515719.1	Scaffold144	4819	CC	AA	1946922389
SNP_P4_114950_5061	NW_004515719.1	Scaffold144	5061	AA	TT	1946922391
SNP_P4_114951_17061	NW_004515719.1	Scaffold144	17061	TT	AA	1946922393
SNP_P4_114952_17076	NW_004515719.1	Scaffold144	17076	AA	CC	1946922395
SNP_P4_114953_17182	NW_004515719.1	Scaffold144	17182	AA	GG	1946922397
SNP_P4_114954_17201	NW_004515719.1	Scaffold144	17201	CC	TT	1946922399
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SNP_P4_114956_17459	NW_004515719.1	Scaffold144	17459	CC	AA	1946922403
SNP_P4_114957_17670	NW_004515719.1	Scaffold144	17670	TT	GG	1946922405
SNP_P4_114958_17806	NW_004515719.1	Scaffold144	17806	AA	CC	1946922407
SNP_P4_114959_18100	NW_004515719.1	Scaffold144	18100	CC	TT	1946922409
SNP_P4_114960_9656	NW_004515720.1	Scaffold146	9656	AA	CC	1946922411
SNP_P4_114961_9666	NW_004515720.1	Scaffold146	9666	GG	CC	1946922413
SNP_P4_114962_9671	NW_004515720.1	Scaffold146	9671	TT	AA	1946922415
SNP_P4_114963_9810	NW_004515720.1	Scaffold146	9810	GG	AA	1946922417
SNP_P4_114964_9813	NW_004515720.1	Scaffold146	9813	AA	TT	1946922419
SNP_P4_114965_9814	NW_004515720.1	Scaffold146	9814	TT	AA	1946922421
SNP_P4_114966_9847	NW_004515720.1	Scaffold146	9847	AA	GG	1946922423
SNP_P4_114968_10001	NW_004515720.1	Scaffold146	10001	TT	CC	1946922425
SNP_P4_114969_10029	NW_004515720.1	Scaffold146	10029	CC	TT	1946922427
SNP_P4_114970_10074	NW_004515720.1	Scaffold146	10074	GG	AA	1946922429
SNP_P4_114971_10418	NW_004515720.1	Scaffold146	10418	CC	AA	1946922431
SNP_P4_114972_10732	NW_004515720.1	Scaffold146	10732	TT	GG	1946922433
SNP_P4_114973_10946	NW_004515720.1	Scaffold146	10946	AA	CC	1946922435
SNP_P4_114974_10958	NW_004515720.1	Scaffold146	10958	CC	TT	1946922437
SNP_P4_114975_12181	NW_004515720.1	Scaffold146	12181	TT	CC	1946922439
SNP_P4_114976_12186	NW_004515720.1	Scaffold146	12186	AA	GG	1946922441
SNP_P4_114977_12221	NW_004515720.1	Scaffold146	12221	GG	TT	1946922443
SNP_P4_114978_12226	NW_004515720.1	Scaffold146	12226	AA	GG	1946922445

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_114981_12284	NW_004515720.1	Scaffold146	12284	CC	GG	1946922451
SNP_P4_114982_12316	NW_004515720.1	Scaffold146	12316	TT	CC	1946922453
SNP_P4_114983_12384	NW_004515720.1	Scaffold146	12384	TT	GG	1946922455
SNP_P4_114984_12388	NW_004515720.1	Scaffold146	12388	AA	GG	1946922457
SNP_P4_114985_12405	NW_004515720.1	Scaffold146	12405	AA	GG	1946922459
SNP_P4_114986_12408	NW_004515720.1	Scaffold146	12408	GG	AA	1946922461
SNP_P4_114987_19138	NW_004515720.1	Scaffold146	19138	AA	GG	1946922463
SNP_P4_114988_28125	NW_004515720.1	Scaffold146	28125	AA	TT	1946922465
SNP_P4_114989_37102	NW_004515720.1	Scaffold146	37102	CC	TT	1946922467
SNP_P4_114990_37222	NW_004515720.1	Scaffold146	37222	AA	GG	1946922469
SNP_P4_114991_46544	NW_004515720.1	Scaffold146	46544	CC	GG	1946922471
SNP_P4_114992_47663	NW_004515720.1	Scaffold146	47663	TT	CC	1946922473
SNP_P4_114993_47664	NW_004515720.1	Scaffold146	47664	TT	GG	1946922475
SNP_P4_114994_47739	NW_004515720.1	Scaffold146	47739	AA	GG	1946922477
SNP_P4_114995_48080	NW_004515720.1	Scaffold146	48080	GG	CC	1946922479
SNP_P4_114996_70100	NW_004515720.1	Scaffold146	70100	AA	GG	1946922481
SNP_P4_114997_70113	NW_004515720.1	Scaffold146	70113	AA	GG	1946922483
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SNP_P4_114999_70235	NW_004515720.1	Scaffold146	70235	AA	TT	1946922487
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SNP_P4_115001_70514	NW_004515720.1	Scaffold146	70514	AA	GG	1946922491
SNP_P4_115002_70875	NW_004515720.1	Scaffold146	70875	AA	GG	1946922493
SNP_P4_115003_70881	NW_004515720.1	Scaffold146	70881	GG	AA	1946922495
SNP_P4_115004_70890	NW_004515720.1	Scaffold146	70890	AA	GG	1946922497
SNP_P4_115005_71720	NW_004515720.1	Scaffold146	71720	AA	TT	1946922499
SNP_P4_115006_71805	NW_004515720.1	Scaffold146	71805	CC	AA	1946922501
SNP_P4_115007_82138	NW_004515720.1	Scaffold146	82138	AA	GG	1946922503
SNP_P4_115008_82185	NW_004515720.1	Scaffold146	82185	TT	GG	1946922505
SNP_P4_115009_82510	NW_004515720.1	Scaffold146	82510	TT	CC	1946922507
SNP_P4_115010_82650	NW_004515720.1	Scaffold146	82650	TT	AA	1946922509
SNP_P4_115011_82691	NW_004515720.1	Scaffold146	82691	GG	CC	1946922511
SNP_P4_115012_82881	NW_004515720.1	Scaffold146	82881	AA	GG	1946922513
SNP_P4_115013_83317	NW_004515720.1	Scaffold146	83317	GG	AA	1946922515
SNP_P4_115014_83318	NW_004515720.1	Scaffold146	83318	AA	TT	1946922517
SNP_P4_115015_83340	NW_004515720.1	Scaffold146	83340	GG	TT	1946922519
SNP_P4_115016_83351	NW_004515720.1	Scaffold146	83351	AA	TT	1946922521
SNP_P4_115017_83378	NW_004515720.1	Scaffold146	83378	CC	TT	1946922523
SNP_P4_115018_83380	NW_004515720.1	Scaffold146	83380	AA	TT	1946922525
SNP_P4_115019_83385	NW_004515720.1	Scaffold146	83385	AA	GG	1946922527
SNP_P4_115020_83400	NW_004515720.1	Scaffold146	83400	CC	TT	1946922529

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_115022_83447	NW_004515720.1	Scaffold146	83447	TT	AA	1946922533
SNP_P4_115023_83460	NW_004515720.1	Scaffold146	83460	TT	GG	1946922535
SNP_P4_115024_83527	NW_004515720.1	Scaffold146	83527	GG	CC	1946922537
SNP_P4_115025_83536	NW_004515720.1	Scaffold146	83536	AA	CC	1946922539
SNP_P4_115026_83708	NW_004515720.1	Scaffold146	83708	CC	AA	1946922541
SNP_P4_115027_83760	NW_004515720.1	Scaffold146	83760	AA	TT	1946922543
SNP_P4_115028_83770	NW_004515720.1	Scaffold146	83770	TT	AA	1946922545
SNP_P4_115029_84306	NW_004515720.1	Scaffold146	84306	TT	AA	1946922547
SNP_P4_115030_86293	NW_004515720.1	Scaffold146	86293	TT	AA	1946922549
SNP_P4_115031_86472	NW_004515720.1	Scaffold146	86472	GG	AA	1946922551
SNP_P4_115032_13455	NW_004515721.1	Scaffold150	13455	AA	CC	1946922553
SNP_P4_115033_13456	NW_004515721.1	Scaffold150	13456	TT	AA	1946922555
SNP_P4_115035_638	NW_004515722.1	Scaffold151	638	TT	AA	1946922557
SNP_P4_115037_860	NW_004515722.1	Scaffold151	860	TT	AA	1946922559
SNP_P4_115038_1159	NW_004515722.1	Scaffold151	1159	AA	TT	1946922561
SNP_P4_115039_1175	NW_004515722.1	Scaffold151	1175	AA	GG	1946922563
SNP_P4_115041_1482	NW_004515722.1	Scaffold151	1482	TT	GG	1946922565
SNP_P4_115042_1499	NW_004515722.1	Scaffold151	1499	AA	CC	1946922567
SNP_P4_115043_1843	NW_004515722.1	Scaffold151	1843	CC	GG	1946922569
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SNP_P4_115045_1847	NW_004515722.1	Scaffold151	1847	AA	CC	1946922573
SNP_P4_115046_1850	NW_004515722.1	Scaffold151	1850	AA	GG	1946922575
SNP_P4_115047_1857	NW_004515722.1	Scaffold151	1857	AA	TT	1946922577
SNP_P4_115048_1875	NW_004515722.1	Scaffold151	1875	AA	CC	1946922579
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SNP_P4_115053_4613	NW_004515722.1	Scaffold151	4613	GG	AA	1946922585
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SNP_P4_115055_4657	NW_004515722.1	Scaffold151	4657	AA	GG	1946922589
SNP_P4_115056_5423	NW_004515722.1	Scaffold151	5423	AA	GG	1946922591
SNP_P4_115057_6098	NW_004515722.1	Scaffold151	6098	GG	TT	1946922593
SNP_P4_115058_6129	NW_004515722.1	Scaffold151	6129	AA	GG	1946922595
SNP_P4_115059_6302	NW_004515722.1	Scaffold151	6302	TT	CC	1946922597
SNP_P4_115060_6336	NW_004515722.1	Scaffold151	6336	AA	GG	1946922599
SNP_P4_115061_6472	NW_004515722.1	Scaffold151	6472	AA	TT	1946922601
SNP_P4_115062_6898	NW_004515722.1	Scaffold151	6898	AA	GG	1946922603
SNP_P4_115063_7043	NW_004515722.1	Scaffold151	7043	AA	GG	1946922605
SNP_P4_115064_7071	NW_004515722.1	Scaffold151	7071	AA	GG	1946922607
SNP_P4_115065_7096	NW_004515722.1	Scaffold151	7096	TT	GG	1946922609
SNP_P4_115066_7122	NW_004515722.1	Scaffold151	7122	CC	TT	1946922611
SNP_P4_115067_7126	NW_004515722.1	Scaffold151	7126	CC	TT	1946922613

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_115070_7464	NW_004515722.1	Scaffold151	7464	AA	GG	1946922619
SNP_P4_115071_7522	NW_004515722.1	Scaffold151	7522	GG	AA	1946922622
SNP_P4_115072_7523	NW_004515722.1	Scaffold151	7523	CC	TT	1946922624
SNP_P4_115073_7566	NW_004515722.1	Scaffold151	7566	GG	AA	1946922626
SNP_P4_115074_7656	NW_004515722.1	Scaffold151	7656	AA	GG	1946922628
SNP_P4_115075_7787	NW_004515722.1	Scaffold151	7787	AA	GG	1946922630
SNP_P4_115076_9385	NW_004515722.1	Scaffold151	9385	TT	AA	1946922632
SNP_P4_115077_9664	NW_004515722.1	Scaffold151	9664	TT	CC	1946922634
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SNP_P4_115080_11041	NW_004515722.1	Scaffold151	11041	TT	CC	1946922640
SNP_P4_115081_11072	NW_004515722.1	Scaffold151	11072	AA	GG	1946922642
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SNP_P4_115087_18638	NW_004515722.1	Scaffold151	18638	GG	AA	1946922652
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SNP_P4_115097_26796	NW_004515722.1	Scaffold151	26796	GG	AA	1946922670
SNP_P4_115098_26840	NW_004515722.1	Scaffold151	26840	TT	GG	1946922672
SNP_P4_115099_26901	NW_004515722.1	Scaffold151	26901	CC	TT	1946922674
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SNP_P4_115106_28613	NW_004515722.1	Scaffold151	28613	CC	AA	1946922688
SNP_P4_115107_28884	NW_004515722.1	Scaffold151	28884	CC	AA	1946922690
SNP_P4_115108_29300	NW_004515722.1	Scaffold151	29300	GG	AA	1946922692
SNP_P4_115109_29369	NW_004515722.1	Scaffold151	29369	TT	AA	1946922694
SNP_P4_115111_30928	NW_004515722.1	Scaffold151	30928	AA	TT	1946922696
SNP_P4_115112_30944	NW_004515722.1	Scaffold151	30944	TT	CC	1946922698

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_115115_35544	NW_004515722.1	Scaffold151	35544	TT	AA	1946922704
SNP_P4_115116_35733	NW_004515722.1	Scaffold151	35733	CC	GG	1946922706
SNP_P4_115117_35740	NW_004515722.1	Scaffold151	35740	AA	GG	1946922708
SNP_P4_115118_35741	NW_004515722.1	Scaffold151	35741	CC	TT	1946922710
SNP_P4_115119_35768	NW_004515722.1	Scaffold151	35768	TT	CC	1946922712
SNP_P4_115120_35802	NW_004515722.1	Scaffold151	35802	TT	AA	1946922714
SNP_P4_115121_35812	NW_004515722.1	Scaffold151	35812	AA	CC	1946922716
SNP_P4_115122_35875	NW_004515722.1	Scaffold151	35875	GG	AA	1946922718
SNP_P4_115123_35898	NW_004515722.1	Scaffold151	35898	AA	GG	1946922720
SNP_P4_115125_36091	NW_004515722.1	Scaffold151	36091	TT	AA	1946922722
SNP_P4_115126_36108	NW_004515722.1	Scaffold151	36108	AA	GG	1946922724
SNP_P4_115127_36131	NW_004515722.1	Scaffold151	36131	GG	CC	1946922726
SNP_P4_115128_41101	NW_004515722.1	Scaffold151	41101	GG	CC	1946922728
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SNP_P4_115130_41936	NW_004515722.1	Scaffold151	41936	AA	CC	1946922732
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SNP_P4_115133_42197	NW_004515722.1	Scaffold151	42197	AA	GG	1946922738
SNP_P4_115134_42342	NW_004515722.1	Scaffold151	42342	AA	GG	1946922740
SNP_P4_115136_42369	NW_004515722.1	Scaffold151	42369	CC	GG	1946922742
SNP_P4_115137_42549	NW_004515722.1	Scaffold151	42549	TT	CC	1946922744
SNP_P4_115138_42562	NW_004515722.1	Scaffold151	42562	TT	AA	1946922746
SNP_P4_115139_42658	NW_004515722.1	Scaffold151	42658	AA	GG	1946922748
SNP_P4_115140_42697	NW_004515722.1	Scaffold151	42697	CC	TT	1946922750
SNP_P4_115141_42773	NW_004515722.1	Scaffold151	42773	TT	CC	1946922752
SNP_P4_115142_42813	NW_004515722.1	Scaffold151	42813	AA	GG	1946922754
SNP_P4_115143_42824	NW_004515722.1	Scaffold151	42824	TT	AA	1946922756
SNP_P4_115144_42857	NW_004515722.1	Scaffold151	42857	TT	CC	1946922758
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SNP_P4_115148_44663	NW_004515722.1	Scaffold151	44663	TT	CC	1946922766
SNP_P4_115149_45101	NW_004515722.1	Scaffold151	45101	AA	GG	1946922768
SNP_P4_115150_54629	NW_004515722.1	Scaffold151	54629	CC	TT	1946922770
SNP_P4_115151_55413	NW_004515722.1	Scaffold151	55413	AA	GG	1946922772
SNP_P4_115152_63696	NW_004515722.1	Scaffold151	63696	GG	TT	1946922774
SNP_P4_115153_65819	NW_004515722.1	Scaffold151	65819	TT	CC	1946922776
SNP_P4_115154_65821	NW_004515722.1	Scaffold151	65821	GG	CC	1946922778
SNP_P4_115155_65877	NW_004515722.1	Scaffold151	65877	CC	TT	1946922780
SNP_P4_115157_69392	NW_004515722.1	Scaffold151	69392	CC	AA	1946922782

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_115160_76607	NW_004515722.1	Scaffold151	76607	GG	AA	1946922788
SNP_P4_115161_79313	NW_004515722.1	Scaffold151	79313	TT	GG	1946922790
SNP_P4_115162_97115	NW_004515722.1	Scaffold151	97115	AA	GG	1946922792
SNP_P4_115163_106878	NW_004515722.1	Scaffold151	106878	GG	TT	1946922794
SNP_P4_115164_107122	NW_004515722.1	Scaffold151	107122	TT	CC	1946922796
SNP_P4_115165_107150	NW_004515722.1	Scaffold151	107150	GG	AA	1946922798
SNP_P4_115166_107437	NW_004515722.1	Scaffold151	107437	TT	CC	1946922800
SNP_P4_115167_111548	NW_004515722.1	Scaffold151	111548	TT	CC	1946922802
SNP_P4_115168_111560	NW_004515722.1	Scaffold151	111560	TT	CC	1946922804
SNP_P4_115169_111563	NW_004515722.1	Scaffold151	111563	TT	CC	1946922806
SNP_P4_115171_111689	NW_004515722.1	Scaffold151	111689	CC	AA	1946922808
SNP_P4_115172_111747	NW_004515722.1	Scaffold151	111747	TT	CC	1946922810
SNP_P4_115173_111751	NW_004515722.1	Scaffold151	111751	CC	TT	1946922812
SNP_P4_115174_111763	NW_004515722.1	Scaffold151	111763	TT	CC	1946922814
SNP_P4_115175_111770	NW_004515722.1	Scaffold151	111770	CC	TT	1946922816
SNP_P4_115176_111807	NW_004515722.1	Scaffold151	111807	AA	GG	1946922818
SNP_P4_115177_111952	NW_004515722.1	Scaffold151	111952	CC	TT	1946922820
SNP_P4_115178_111955	NW_004515722.1	Scaffold151	111955	AA	GG	1946922822
SNP_P4_115179_114577	NW_004515722.1	Scaffold151	114577	CC	TT	1946922824
SNP_P4_115180_134760	NW_004515722.1	Scaffold151	134760	TT	AA	1946922826
SNP_P4_115182_177500	NW_004515722.1	Scaffold151	177500	CC	TT	1946922828
SNP_P4_115183_186884	NW_004515722.1	Scaffold151	186884	CC	GG	1946922830
SNP_P4_115184_205487	NW_004515722.1	Scaffold151	205487	GG	TT	1946922832
SNP_P4_115185_216362	NW_004515722.1	Scaffold151	216362	TT	CC	1946922834
SNP_P4_115186_217474	NW_004515722.1	Scaffold151	217474	GG	CC	1946922836
SNP_P4_115187_220703	NW_004515722.1	Scaffold151	220703	TT	AA	1946922838
SNP_P4_115189_222272	NW_004515722.1	Scaffold151	222272	CC	GG	1946922840
SNP_P4_115190_224186	NW_004515722.1	Scaffold151	224186	AA	GG	1946922842
SNP_P4_115191_239467	NW_004515722.1	Scaffold151	239467	AA	GG	1946922844
SNP_P4_115193_251620	NW_004515722.1	Scaffold151	251620	TT	AA	1946922846
SNP_P4_115194_282298	NW_004515722.1	Scaffold151	282298	AA	CC	1946922848
SNP_P4_115195_287913	NW_004515722.1	Scaffold151	287913	TT	CC	1946922850
SNP_P4_115197_296552	NW_004515722.1	Scaffold151	296552	CC	AA	1946922852
SNP_P4_115198_298645	NW_004515722.1	Scaffold151	298645	AA	CC	1946922854
SNP_P4_115199_308843	NW_004515722.1	Scaffold151	308843	TT	CC	1946922856
SNP_P4_115200_308844	NW_004515722.1	Scaffold151	308844	TT	GG	1946922858
SNP_P4_115201_311509	NW_004515722.1	Scaffold151	311509	TT	CC	1946922860
SNP_P4_115203_6344	NW_004515723.1	Scaffold153	6344	TT	GG	1946922862
SNP_P4_115204_6634	NW_004515723.1	Scaffold153	6634	TT	CC	1946922864
SNP_P4_115205_11392	NW_004515723.1	Scaffold153	11392	CC	TT	1946922866

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_115207_17942	NW_004515723.1	Scaffold153	17942	CC	TT	1946922870
SNP_P4_115208_19453	NW_004515723.1	Scaffold153	19453	GG	AA	1946922872
SNP_P4_115209_19484	NW_004515723.1	Scaffold153	19484	GG	CC	1946922874
SNP_P4_115210_19545	NW_004515723.1	Scaffold153	19545	GG	AA	1946922876
SNP_P4_115211_19673	NW_004515723.1	Scaffold153	19673	TT	CC	1946922878
SNP_P4_115212_19678	NW_004515723.1	Scaffold153	19678	CC	AA	1946922880
SNP_P4_115213_19690	NW_004515723.1	Scaffold153	19690	AA	TT	1946922882
SNP_P4_115214_19919	NW_004515723.1	Scaffold153	19919	TT	AA	1946922884
SNP_P4_115215_20014	NW_004515723.1	Scaffold153	20014	GG	AA	1946922886
SNP_P4_115216_20050	NW_004515723.1	Scaffold153	20050	TT	CC	1946922888
SNP_P4_115217_20052	NW_004515723.1	Scaffold153	20052	TT	CC	1946922890
SNP_P4_115218_28000	NW_004515723.1	Scaffold153	28000	TT	CC	1946922892
SNP_P4_115219_28002	NW_004515723.1	Scaffold153	28002	TT	CC	1946922894
SNP_P4_115221_28100	NW_004515723.1	Scaffold153	28100	AA	GG	1946922896
SNP_P4_115222_28114	NW_004515723.1	Scaffold153	28114	GG	AA	1946922898
SNP_P4_115223_28122	NW_004515723.1	Scaffold153	28122	GG	TT	1946922900
SNP_P4_115224_28124	NW_004515723.1	Scaffold153	28124	TT	GG	1946922902
SNP_P4_115225_28162	NW_004515723.1	Scaffold153	28162	CC	TT	1946922904
SNP_P4_115226_31048	NW_004515723.1	Scaffold153	31048	CC	TT	1946922906
SNP_P4_115227_31059	NW_004515723.1	Scaffold153	31059	GG	AA	1946922908
SNP_P4_115228_31089	NW_004515723.1	Scaffold153	31089	TT	GG	1946922910
SNP_P4_115229_31305	NW_004515723.1	Scaffold153	31305	GG	AA	1946922912
SNP_P4_115230_31320	NW_004515723.1	Scaffold153	31320	GG	AA	1946922915
SNP_P4_115231_32191	NW_004515723.1	Scaffold153	32191	AA	CC	1946922917
SNP_P4_115232_35067	NW_004515723.1	Scaffold153	35067	CC	AA	1946922919
SNP_P4_115233_35165	NW_004515723.1	Scaffold153	35165	GG	AA	1946922921
SNP_P4_115234_44057	NW_004515723.1	Scaffold153	44057	AA	CC	1946922923
SNP_P4_115235_44095	NW_004515723.1	Scaffold153	44095	TT	GG	1946922925
SNP_P4_115236_44192	NW_004515723.1	Scaffold153	44192	GG	AA	1946922927
SNP_P4_115237_44320	NW_004515723.1	Scaffold153	44320	AA	TT	1946922930
SNP_P4_115238_45468	NW_004515723.1	Scaffold153	45468	TT	CC	1946922932
SNP_P4_115239_45804	NW_004515723.1	Scaffold153	45804	GG	AA	1946922934
SNP_P4_115240_51064	NW_004515723.1	Scaffold153	51064	GG	AA	1946922936
SNP_P4_115241_51382	NW_004515723.1	Scaffold153	51382	CC	TT	1946922938
SNP_P4_115242_51548	NW_004515723.1	Scaffold153	51548	GG	AA	1946922940
SNP_P4_115243_56474	NW_004515723.1	Scaffold153	56474	AA	GG	1946922942
SNP_P4_115244_56840	NW_004515723.1	Scaffold153	56840	TT	CC	1946922944
SNP_P4_115245_56851	NW_004515723.1	Scaffold153	56851	TT	CC	1946922946
SNP_P4_115246_80976	NW_004515723.1	Scaffold153	80976	AA	GG	1946922948
SNP_P4_115247_80999	NW_004515723.1	Scaffold153	80999	TT	CC	1946922950
SNP_P4_115249_81518	NW_004515723.1	Scaffold153	81518	AA	TT	1946922952

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_115251_89654	NW_004515723.1	Scaffold153	89654	AA	TT	1946922956
SNP_P4_115252_89688	NW_004515723.1	Scaffold153	89688	GG	CC	1946922958
SNP_P4_115253_89695	NW_004515723.1	Scaffold153	89695	TT	CC	1946922960
SNP_P4_115254_89793	NW_004515723.1	Scaffold153	89793	TT	CC	1946922962
SNP_P4_115255_89899	NW_004515723.1	Scaffold153	89899	TT	AA	1946922964
SNP_P4_115256_89983	NW_004515723.1	Scaffold153	89983	TT	CC	1946922966
SNP_P4_115257_90006	NW_004515723.1	Scaffold153	90006	TT	GG	1946922968
SNP_P4_115258_90056	NW_004515723.1	Scaffold153	90056	CC	TT	1946922970
SNP_P4_115259_90141	NW_004515723.1	Scaffold153	90141	AA	CC	1946922972
SNP_P4_115260_92073	NW_004515723.1	Scaffold153	92073	TT	CC	1946922974
SNP_P4_115261_94407	NW_004515723.1	Scaffold153	94407	GG	AA	1946922976
SNP_P4_115262_98399	NW_004515723.1	Scaffold153	98399	TT	CC	1946922978
SNP_P4_115263_100706	NW_004515723.1	Scaffold153	100706	GG	AA	1946922980
SNP_P4_115264_103290	NW_004515723.1	Scaffold153	103290	CC	TT	1946922982
SNP_P4_115265_104306	NW_004515723.1	Scaffold153	104306	TT	CC	1946922984
SNP_P4_115266_106521	NW_004515723.1	Scaffold153	106521	AA	GG	1946922986
SNP_P4_115267_107910	NW_004515723.1	Scaffold153	107910	GG	AA	1946922988
SNP_P4_115268_116364	NW_004515723.1	Scaffold153	116364	GG	AA	1946922990
SNP_P4_115271_27127	NW_004515725.1	Scaffold157	27127	TT	GG	1946922992
SNP_P4_115272_31359	NW_004515725.1	Scaffold157	31359	TT	GG	1946922994
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SNP_P4_115275_40387	NW_004515725.1	Scaffold157	40387	CC	TT	1946922998
SNP_P4_115276_40432	NW_004515725.1	Scaffold157	40432	AA	CC	1946923000
SNP_P4_115277_40441	NW_004515725.1	Scaffold157	40441	AA	GG	1946923002
SNP_P4_115278_40647	NW_004515725.1	Scaffold157	40647	TT	AA	1946923004
SNP_P4_115279_59146	NW_004515725.1	Scaffold157	59146	CC	AA	1946923006
SNP_P4_115280_89962	NW_004515725.1	Scaffold157	89962	GG	AA	1946923008
SNP_P4_115281_114201	NW_004515725.1	Scaffold157	114201	TT	CC	1946923010
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SNP_P4_115285_155043	NW_004515725.1	Scaffold157	155043	GG	AA	1946923014
SNP_P4_115286_164533	NW_004515725.1	Scaffold157	164533	TT	CC	1946923016
SNP_P4_115287_169543	NW_004515725.1	Scaffold157	169543	CC	AA	1946923018
SNP_P4_115288_169723	NW_004515725.1	Scaffold157	169723	AA	CC	1946923020
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SNP_P4_115290_171587	NW_004515725.1	Scaffold157	171587	CC	TT	1946923024
SNP_P4_115291_182929	NW_004515725.1	Scaffold157	182929	AA	GG	1946923026
SNP_P4_115292_185476	NW_004515725.1	Scaffold157	185476	GG	AA	1946923028
SNP_P4_115293_195643	NW_004515725.1	Scaffold157	195643	AA	GG	1946923030
SNP_P4_115295_248014	NW_004515725.1	Scaffold157	248014	GG	AA	1946923032
SNP_P4_115296_248021	NW_004515725.1	Scaffold157	248021	AA	GG	1946923034
SNP_P4_115297_248056	NW_004515725.1	Scaffold157	248056	GG	AA	1946923036

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_115300_248353	NW_004515725.1	Scaffold157	248353	TT	CC	1946923040
SNP_P4_115301_248355	NW_004515725.1	Scaffold157	248355	GG	AA	1946923042
SNP_P4_115302_248377	NW_004515725.1	Scaffold157	248377	GG	AA	1946923044
SNP_P4_115303_248431	NW_004515725.1	Scaffold157	248431	CC	AA	1946923046
SNP_P4_115304_248432	NW_004515725.1	Scaffold157	248432	AA	TT	1946923048
SNP_P4_115305_248437	NW_004515725.1	Scaffold157	248437	GG	AA	1946923050
SNP_P4_115306_248473	NW_004515725.1	Scaffold157	248473	TT	CC	1946923052
SNP_P4_115307_248477	NW_004515725.1	Scaffold157	248477	CC	TT	1946923054
SNP_P4_115308_251001	NW_004515725.1	Scaffold157	251001	TT	CC	1946923056
SNP_P4_115309_251330	NW_004515725.1	Scaffold157	251330	TT	GG	1946923058
SNP_P4_115310_251363	NW_004515725.1	Scaffold157	251363	TT	CC	1946923060
SNP_P4_115311_251940	NW_004515725.1	Scaffold157	251940	AA	GG	1946923062
SNP_P4_115312_252933	NW_004515725.1	Scaffold157	252933	CC	GG	1946923064
SNP_P4_115313_254339	NW_004515725.1	Scaffold157	254339	TT	GG	1946923066
SNP_P4_115314_254361	NW_004515725.1	Scaffold157	254361	CC	TT	1946923068
SNP_P4_115316_256973	NW_004515725.1	Scaffold157	256973	TT	GG	1946923070
SNP_P4_115318_257017	NW_004515725.1	Scaffold157	257017	AA	CC	1946923072
SNP_P4_115319_257678	NW_004515725.1	Scaffold157	257678	CC	TT	1946923074
SNP_P4_115320_258179	NW_004515725.1	Scaffold157	258179	AA	GG	1946923076
SNP_P4_115321_258208	NW_004515725.1	Scaffold157	258208	AA	GG	1946923078
SNP_P4_115322_258220	NW_004515725.1	Scaffold157	258220	AA	TT	1946923080
SNP_P4_115323_280548	NW_004515725.1	Scaffold157	280548	GG	AA	1946923082
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SNP_P4_115327_281214	NW_004515725.1	Scaffold157	281214	TT	CC	1946923090
SNP_P4_115328_282597	NW_004515725.1	Scaffold157	282597	AA	GG	1946923092
SNP_P4_115329_282627	NW_004515725.1	Scaffold157	282627	GG	CC	1946923094
SNP_P4_115330_282757	NW_004515725.1	Scaffold157	282757	TT	AA	1946923096
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SNP_P4_115332_289254	NW_004515725.1	Scaffold157	289254	TT	AA	1946923100
SNP_P4_115334_289329	NW_004515725.1	Scaffold157	289329	TT	CC	1946923102
SNP_P4_115335_289331	NW_004515725.1	Scaffold157	289331	GG	AA	1946923104
SNP_P4_115336_289341	NW_004515725.1	Scaffold157	289341	TT	GG	1946923106
SNP_P4_115337_290655	NW_004515725.1	Scaffold157	290655	TT	GG	1946923108
SNP_P4_115338_290676	NW_004515725.1	Scaffold157	290676	GG	AA	1946923111
SNP_P4_115339_301988	NW_004515725.1	Scaffold157	301988	GG	AA	1946923113
SNP_P4_115340_303069	NW_004515725.1	Scaffold157	303069	TT	CC	1946923115
SNP_P4_115341_303897	NW_004515725.1	Scaffold157	303897	TT	CC	1946923117
SNP_P4_115342_303942	NW_004515725.1	Scaffold157	303942	GG	AA	1946923119
SNP_P4_115343_305098	NW_004515725.1	Scaffold157	305098	CC	GG	1946923121

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_115345_305595	NW_004515725.1	Scaffold157	305595	GG	TT	1946923125
SNP_P4_115346_305602	NW_004515725.1	Scaffold157	305602	AA	GG	1946923127
SNP_P4_115347_305618	NW_004515725.1	Scaffold157	305618	AA	GG	1946923129
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SNP_P4_115349_305896	NW_004515725.1	Scaffold157	305896	TT	CC	1946923133
SNP_P4_115350_306643	NW_004515725.1	Scaffold157	306643	TT	AA	1946923135
SNP_P4_115351_307779	NW_004515725.1	Scaffold157	307779	CC	TT	1946923137
SNP_P4_115353_308047	NW_004515725.1	Scaffold157	308047	GG	TT	1946923139
SNP_P4_115354_309208	NW_004515725.1	Scaffold157	309208	GG	TT	1946923141
SNP_P4_115355_309248	NW_004515725.1	Scaffold157	309248	TT	CC	1946923143
SNP_P4_115356_309268	NW_004515725.1	Scaffold157	309268	AA	GG	1946923145
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SNP_P4_115358_309574	NW_004515725.1	Scaffold157	309574	CC	TT	1946923149
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SNP_P4_115370_315623	NW_004515725.1	Scaffold157	315623	GG	AA	1946923167
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SNP_P4_115373_323855	NW_004515725.1	Scaffold157	323855	TT	AA	1946923173
SNP_P4_115374_324031	NW_004515725.1	Scaffold157	324031	CC	TT	1946923175
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SNP_P4_115386_330637	NW_004515725.1	Scaffold157	330637	TT	GG	1946923199
SNP_P4_115387_330671	NW_004515725.1	Scaffold157	330671	TT	CC	1946923201
SNP_P4_115388_330676	NW_004515725.1	Scaffold157	330676	AA	GG	1946923203
SNP_P4_115389_330724	NW_004515725.1	Scaffold157	330724	GG	AA	1946923205

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_115393_330873	NW_004515725.1	Scaffold157	330873	TT	CC	1946923212
SNP_P4_115394_330893	NW_004515725.1	Scaffold157	330893	AA	TT	1946923214
SNP_P4_115395_330991	NW_004515725.1	Scaffold157	330991	AA	GG	1946923216
SNP_P4_115396_330993	NW_004515725.1	Scaffold157	330993	AA	GG	1946923218
SNP_P4_115397_331003	NW_004515725.1	Scaffold157	331003	GG	AA	1946923220
SNP_P4_115398_331020	NW_004515725.1	Scaffold157	331020	CC	GG	1946923222
SNP_P4_115399_331119	NW_004515725.1	Scaffold157	331119	AA	GG	1946923224
SNP_P4_115400_331123	NW_004515725.1	Scaffold157	331123	GG	TT	1946923226
SNP_P4_115401_331130	NW_004515725.1	Scaffold157	331130	GG	AA	1946923228
SNP_P4_115402_331315	NW_004515725.1	Scaffold157	331315	GG	AA	1946923231
SNP_P4_115403_331386	NW_004515725.1	Scaffold157	331386	AA	GG	1946923233
SNP_P4_115404_332692	NW_004515725.1	Scaffold157	332692	GG	AA	1946923235
SNP_P4_115405_332721	NW_004515725.1	Scaffold157	332721	TT	CC	1946923237
SNP_P4_115406_332735	NW_004515725.1	Scaffold157	332735	GG	AA	1946923239
SNP_P4_115407_332947	NW_004515725.1	Scaffold157	332947	TT	CC	1946923241
SNP_P4_115408_332948	NW_004515725.1	Scaffold157	332948	TT	CC	1946923243
SNP_P4_115409_333002	NW_004515725.1	Scaffold157	333002	GG	AA	1946923245
SNP_P4_115410_333190	NW_004515725.1	Scaffold157	333190	CC	TT	1946923247
SNP_P4_115411_334504	NW_004515725.1	Scaffold157	334504	CC	GG	1946923249
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SNP_P4_115413_334515	NW_004515725.1	Scaffold157	334515	TT	CC	1946923253
SNP_P4_115414_335976	NW_004515725.1	Scaffold157	335976	GG	AA	1946923255
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SNP_P4_115416_336013	NW_004515725.1	Scaffold157	336013	CC	GG	1946923260
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SNP_P4_115420_336847	NW_004515725.1	Scaffold157	336847	AA	TT	1946923268
SNP_P4_115421_338379	NW_004515725.1	Scaffold157	338379	GG	TT	1946923270
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SNP_P4_115423_338584	NW_004515725.1	Scaffold157	338584	AA	GG	1946923274
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SNP_P4_115425_341546	NW_004515725.1	Scaffold157	341546	AA	TT	1946923278
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SNP_P4_115427_342366	NW_004515725.1	Scaffold157	342366	GG	TT	1946923282
SNP_P4_115428_343466	NW_004515725.1	Scaffold157	343466	TT	CC	1946923284
SNP_P4_115429_343757	NW_004515725.1	Scaffold157	343757	GG	AA	1946923286
SNP_P4_115430_345034	NW_004515725.1	Scaffold157	345034	GG	AA	1946923288
SNP_P4_115432_345947	NW_004515725.1	Scaffold157	345947	AA	GG	1946923290
SNP_P4_115433_345950	NW_004515725.1	Scaffold157	345950	AA	GG	1946923292

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_115435_348118	NW_004515725.1	Scaffold157	348118	GG	AA	1946923296
SNP_P4_115437_348293	NW_004515725.1	Scaffold157	348293	AA	GG	1946923298
SNP_P4_115438_348319	NW_004515725.1	Scaffold157	348319	CC	TT	1946923300
SNP_P4_115439_348464	NW_004515725.1	Scaffold157	348464	TT	AA	1946923302
SNP_P4_115440_348472	NW_004515725.1	Scaffold157	348472	GG	AA	1946923304
SNP_P4_115441_348751	NW_004515725.1	Scaffold157	348751	AA	TT	1946923306
SNP_P4_115442_349158	NW_004515725.1	Scaffold157	349158	AA	GG	1946923308
SNP_P4_115443_351869	NW_004515725.1	Scaffold157	351869	GG	CC	1946923310
SNP_P4_115444_352079	NW_004515725.1	Scaffold157	352079	GG	AA	1946923312
SNP_P4_115445_352147	NW_004515725.1	Scaffold157	352147	AA	TT	1946923314
SNP_P4_115448_354733	NW_004515725.1	Scaffold157	354733	CC	TT	1946923316
SNP_P4_115449_355531	NW_004515725.1	Scaffold157	355531	GG	AA	1946923318
SNP_P4_115450_355532	NW_004515725.1	Scaffold157	355532	CC	AA	1946923320
SNP_P4_115452_358419	NW_004515725.1	Scaffold157	358419	CC	AA	1946923322
SNP_P4_115453_358420	NW_004515725.1	Scaffold157	358420	TT	CC	1946923324
SNP_P4_115454_358685	NW_004515725.1	Scaffold157	358685	CC	TT	1946923326
SNP_P4_115456_359201	NW_004515725.1	Scaffold157	359201	AA	CC	1946923329
SNP_P4_115457_359210	NW_004515725.1	Scaffold157	359210	TT	CC	1946923331
SNP_P4_115458_359229	NW_004515725.1	Scaffold157	359229	CC	TT	1946923334
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SNP_P4_115460_359660	NW_004515725.1	Scaffold157	359660	CC	TT	1946923338
SNP_P4_115462_359810	NW_004515725.1	Scaffold157	359810	TT	CC	1946923340
SNP_P4_115463_359812	NW_004515725.1	Scaffold157	359812	GG	AA	1946923342
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SNP_P4_115465_359838	NW_004515725.1	Scaffold157	359838	AA	TT	1946923346
SNP_P4_115466_359999	NW_004515725.1	Scaffold157	359999	GG	TT	1946923348
SNP_P4_115468_360052	NW_004515725.1	Scaffold157	360052	GG	TT	1946923350
SNP_P4_115469_360075	NW_004515725.1	Scaffold157	360075	GG	AA	1946923352
SNP_P4_115471_360100	NW_004515725.1	Scaffold157	360100	CC	TT	1946923354
SNP_P4_115472_360231	NW_004515725.1	Scaffold157	360231	AA	GG	1946923356
SNP_P4_115474_360580	NW_004515725.1	Scaffold157	360580	GG	AA	1946923358
SNP_P4_115475_360581	NW_004515725.1	Scaffold157	360581	TT	CC	1946923360
SNP_P4_115476_360633	NW_004515725.1	Scaffold157	360633	AA	GG	1946923362
SNP_P4_115477_360634	NW_004515725.1	Scaffold157	360634	GG	AA	1946923364
SNP_P4_115478_360821	NW_004515725.1	Scaffold157	360821	TT	CC	1946923366
SNP_P4_115479_360863	NW_004515725.1	Scaffold157	360863	GG	TT	1946923368
SNP_P4_115481_361203	NW_004515725.1	Scaffold157	361203	GG	TT	1946923370
SNP_P4_115482_362640	NW_004515725.1	Scaffold157	362640	GG	AA	1946923372
SNP_P4_115483_363475	NW_004515725.1	Scaffold157	363475	TT	CC	1946923374
SNP_P4_115484_363486	NW_004515725.1	Scaffold157	363486	TT	AA	1946923376
SNP_P4_115485_363489	NW_004515725.1	Scaffold157	363489	GG	AA	1946923378

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_115487_378197	NW_004515725.1	Scaffold157	378197	TT	CC	1946923381
SNP_P4_115488_381139	NW_004515725.1	Scaffold157	381139	CC	AA	1946923383
SNP_P4_115489_399206	NW_004515725.1	Scaffold157	399206	CC	TT	1946923385
SNP_P4_115490_399214	NW_004515725.1	Scaffold157	399214	AA	GG	1946923387
SNP_P4_115491_403328	NW_004515725.1	Scaffold157	403328	AA	GG	1946923389
SNP_P4_115492_427898	NW_004515725.1	Scaffold157	427898	GG	TT	1946923391
SNP_P4_115493_459953	NW_004515725.1	Scaffold157	459953	TT	CC	1946923393
SNP_P4_115494_459957	NW_004515725.1	Scaffold157	459957	GG	AA	1946923395
SNP_P4_115495_460044	NW_004515725.1	Scaffold157	460044	GG	AA	1946923397
SNP_P4_115497_485459	NW_004515725.1	Scaffold157	485459	TT	GG	1946923399
SNP_P4_115498_489403	NW_004515725.1	Scaffold157	489403	CC	GG	1946923401
SNP_P4_115499_513951	NW_004515725.1	Scaffold157	513951	GG	TT	1946923403
SNP_P4_115500_515144	NW_004515725.1	Scaffold157	515144	AA	GG	1946923405
SNP_P4_115501_533539	NW_004515725.1	Scaffold157	533539	TT	GG	1946923407
SNP_P4_115502_533961	NW_004515725.1	Scaffold157	533961	CC	TT	1946923409
SNP_P4_115503_533969	NW_004515725.1	Scaffold157	533969	AA	GG	1946923411
SNP_P4_115504_2019	NW_004515726.1	Scaffold158	2019	TT	CC	1946923413
SNP_P4_115505_2048	NW_004515726.1	Scaffold158	2048	AA	GG	1946923415
SNP_P4_115506_10385	NW_004515726.1	Scaffold158	10385	AA	GG	1946923417
SNP_P4_115507_27144	NW_004515726.1	Scaffold158	27144	AA	GG	1946923419
SNP_P4_115508_28264	NW_004515726.1	Scaffold158	28264	TT	CC	1946923421
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SNP_P4_115513_36670	NW_004515726.1	Scaffold158	36670	GG	CC	1946923431
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SNP_P4_115516_53008	NW_004515726.1	Scaffold158	53008	CC	TT	1946923438
SNP_P4_115517_73834	NW_004515726.1	Scaffold158	73834	GG	AA	1946923440
SNP_P4_115518_75600	NW_004515726.1	Scaffold158	75600	GG	AA	1946923442
SNP_P4_115519_80096	NW_004515726.1	Scaffold158	80096	GG	CC	1946923444
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SNP_P4_115521_121958	NW_004515726.1	Scaffold158	121958	CC	TT	1946923448
SNP_P4_115522_121978	NW_004515726.1	Scaffold158	121978	AA	CC	1946923450
SNP_P4_115524_131630	NW_004515726.1	Scaffold158	131630	GG	AA	1946923452
SNP_P4_115526_131652	NW_004515726.1	Scaffold158	131652	TT	CC	1946923454
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SNP_P4_115528_131754	NW_004515726.1	Scaffold158	131754	CC	AA	1946923458
SNP_P4_115529_131762	NW_004515726.1	Scaffold158	131762	AA	GG	1946923460
SNP_P4_115530_131797	NW_004515726.1	Scaffold158	131797	TT	CC	1946923462

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_115534_132228	NW_004515726.1	Scaffold158	132228	TT	GG	1946923469
SNP_P4_115535_16551	NW_004515728.1	Scaffold166	16551	TT	CC	1946923471
SNP_P4_115537_40681	NW_004515728.1	Scaffold166	40681	AA	GG	1946923473
SNP_P4_115538_51497	NW_004515728.1	Scaffold166	51497	GG	TT	1946923475
SNP_P4_115539_56239	NW_004515728.1	Scaffold166	56239	GG	CC	1946923477
SNP_P4_115540_60948	NW_004515728.1	Scaffold166	60948	GG	AA	1946923479
SNP_P4_115541_75148	NW_004515728.1	Scaffold166	75148	TT	CC	1946923481
SNP_P4_115543_82563	NW_004515728.1	Scaffold166	82563	AA	GG	1946923483
SNP_P4_115544_98781	NW_004515728.1	Scaffold166	98781	TT	GG	1946923485
SNP_P4_115545_99164	NW_004515728.1	Scaffold166	99164	AA	GG	1946923487
SNP_P4_115546_105785	NW_004515728.1	Scaffold166	105785	TT	AA	1946923489
SNP_P4_115547_108734	NW_004515728.1	Scaffold166	108734	CC	TT	1946923491
SNP_P4_115548_108967	NW_004515728.1	Scaffold166	108967	GG	TT	1946923493
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SNP_P4_115550_115544	NW_004515728.1	Scaffold166	115544	AA	TT	1946923497
SNP_P4_115551_127429	NW_004515728.1	Scaffold166	127429	TT	GG	1946923499
SNP_P4_115552_134141	NW_004515728.1	Scaffold166	134141	TT	AA	1946923501
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SNP_P4_115555_166807	NW_004515728.1	Scaffold166	166807	AA	TT	1946923507
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SNP_P4_115557_196625	NW_004515728.1	Scaffold166	196625	TT	GG	1946923511
SNP_P4_115558_196657	NW_004515728.1	Scaffold166	196657	AA	CC	1946923513
SNP_P4_115559_196836	NW_004515728.1	Scaffold166	196836	TT	GG	1946923515
SNP_P4_115560_196891	NW_004515728.1	Scaffold166	196891	CC	GG	1946923517
SNP_P4_115561_196945	NW_004515728.1	Scaffold166	196945	CC	GG	1946923519
SNP_P4_115562_199587	NW_004515728.1	Scaffold166	199587	TT	CC	1946923521
SNP_P4_115564_199898	NW_004515728.1	Scaffold166	199898	AA	GG	1946923523
SNP_P4_115565_212515	NW_004515728.1	Scaffold166	212515	AA	GG	1946923525
SNP_P4_115566_212563	NW_004515728.1	Scaffold166	212563	GG	TT	1946923527
SNP_P4_115567_226968	NW_004515728.1	Scaffold166	226968	AA	GG	1946923529
SNP_P4_115568_226985	NW_004515728.1	Scaffold166	226985	GG	AA	1946923532
SNP_P4_115569_227286	NW_004515728.1	Scaffold166	227286	CC	TT	1946923534
SNP_P4_115570_227305	NW_004515728.1	Scaffold166	227305	GG	TT	1946923536
SNP_P4_115572_227643	NW_004515728.1	Scaffold166	227643	CC	TT	1946923538
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SNP_P4_115574_254992	NW_004515728.1	Scaffold166	254992	GG	AA	1946923542
SNP_P4_115575_274832	NW_004515728.1	Scaffold166	274832	GG	AA	1946923544
SNP_P4_115576_276197	NW_004515728.1	Scaffold166	276197	GG	TT	1946923546
SNP_P4_115577_277424	NW_004515728.1	Scaffold166	277424	GG	AA	1946923548

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_115578_284198	NW_004515728.1	Scaffold166	284198	AA	GG	1946923550
SNP_P4_115579_284799	NW_004515728.1	Scaffold166	284799	GG	AA	1946923552
SNP_P4_115580_284862	NW_004515728.1	Scaffold166	284862	AA	GG	1946923554
SNP_P4_115581_284863	NW_004515728.1	Scaffold166	284863	AA	GG	1946923556
SNP_P4_115582_285053	NW_004515728.1	Scaffold166	285053	GG	AA	1946923558
SNP_P4_115583_285084	NW_004515728.1	Scaffold166	285084	TT	CC	1946923560
SNP_P4_115584_288929	NW_004515728.1	Scaffold166	288929	CC	TT	1946923562
SNP_P4_115585_288931	NW_004515728.1	Scaffold166	288931	AA	GG	1946923564
SNP_P4_115586_294362	NW_004515728.1	Scaffold166	294362	TT	GG	1946923566
SNP_P4_115587_294469	NW_004515728.1	Scaffold166	294469	GG	AA	1946923568
SNP_P4_115588_294479	NW_004515728.1	Scaffold166	294479	CC	TT	1946923570
SNP_P4_115589_298924	NW_004515728.1	Scaffold166	298924	GG	TT	1946923572
SNP_P4_115590_298945	NW_004515728.1	Scaffold166	298945	TT	CC	1946923574
SNP_P4_115591_298972	NW_004515728.1	Scaffold166	298972	GG	TT	1946923576
SNP_P4_115592_299005	NW_004515728.1	Scaffold166	299005	CC	TT	1946923578
SNP_P4_115593_299007	NW_004515728.1	Scaffold166	299007	GG	AA	1946923580
SNP_P4_115594_299022	NW_004515728.1	Scaffold166	299022	TT	CC	1946923582
SNP_P4_115595_299028	NW_004515728.1	Scaffold166	299028	AA	GG	1946923584
SNP_P4_115596_299078	NW_004515728.1	Scaffold166	299078	AA	TT	1946923586
SNP_P4_115597_299117	NW_004515728.1	Scaffold166	299117	CC	TT	1946923588
SNP_P4_115598_299129	NW_004515728.1	Scaffold166	299129	TT	CC	1946923590
SNP_P4_115599_299137	NW_004515728.1	Scaffold166	299137	TT	CC	1946923592
SNP_P4_115600_299146	NW_004515728.1	Scaffold166	299146	TT	CC	1946923594
SNP_P4_115601_299340	NW_004515728.1	Scaffold166	299340	TT	GG	1946923596
SNP_P4_115602_5378	NW_004515729.1	Scaffold167	5378	AA	GG	1946923599
SNP_P4_115603_5626	NW_004515729.1	Scaffold167	5626	TT	CC	1946923601
SNP_P4_115604_5815	NW_004515729.1	Scaffold167	5815	AA	CC	1946923603
SNP_P4_115605_5829	NW_004515729.1	Scaffold167	5829	CC	GG	1946923605
SNP_P4_115606_5853	NW_004515729.1	Scaffold167	5853	TT	AA	1946923607
SNP_P4_115607_5855	NW_004515729.1	Scaffold167	5855	TT	GG	1946923609
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SNP_P4_115609_6144	NW_004515729.1	Scaffold167	6144	TT	CC	1946923613
SNP_P4_115610_6161	NW_004515729.1	Scaffold167	6161	TT	AA	1946923615
SNP_P4_115611_6162	NW_004515729.1	Scaffold167	6162	AA	GG	1946923617
SNP_P4_115612_6166	NW_004515729.1	Scaffold167	6166	TT	AA	1946923619
SNP_P4_115613_6173	NW_004515729.1	Scaffold167	6173	GG	TT	1946923621
SNP_P4_115614_6174	NW_004515729.1	Scaffold167	6174	TT	AA	1946923623
SNP_P4_115615_6186	NW_004515729.1	Scaffold167	6186	CC	AA	1946923625
SNP_P4_115616_6187	NW_004515729.1	Scaffold167	6187	AA	TT	1946923627
SNP_P4_115617_6272	NW_004515729.1	Scaffold167	6272	TT	AA	1946923629
SNP_P4_115618_6346	NW_004515729.1	Scaffold167	6346	CC	TT	1946923631
SNP_P4_115619_10130	NW_004515729.1	Scaffold167	10130	GG	TT	1946923633

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_115622_29083	NW_004515729.1	Scaffold167	29083	CC	GG	1946923638
SNP_P4_115623_38705	NW_004515729.1	Scaffold167	38705	TT	CC	1946923640
SNP_P4_115624_38766	NW_004515729.1	Scaffold167	38766	GG	CC	1946923642
SNP_P4_115625_38986	NW_004515729.1	Scaffold167	38986	CC	TT	1946923644
SNP_P4_115626_39032	NW_004515729.1	Scaffold167	39032	TT	GG	1946923646
SNP_P4_115627_39048	NW_004515729.1	Scaffold167	39048	CC	TT	1946923648
SNP_P4_115628_39139	NW_004515729.1	Scaffold167	39139	TT	CC	1946923650
SNP_P4_115629_39197	NW_004515729.1	Scaffold167	39197	TT	GG	1946923653
SNP_P4_115630_39229	NW_004515729.1	Scaffold167	39229	TT	AA	1946923655
SNP_P4_115631_55907	NW_004515729.1	Scaffold167	55907	AA	GG	1946923657
SNP_P4_115632_63039	NW_004515729.1	Scaffold167	63039	GG	CC	1946923659
SNP_P4_115633_63075	NW_004515729.1	Scaffold167	63075	AA	GG	1946923661
SNP_P4_115636_67993	NW_004515729.1	Scaffold167	67993	AA	TT	1946923663
SNP_P4_115637_68147	NW_004515729.1	Scaffold167	68147	CC	TT	1946923665
SNP_P4_115638_68352	NW_004515729.1	Scaffold167	68352	CC	TT	1946923667
SNP_P4_115639_68359	NW_004515729.1	Scaffold167	68359	GG	TT	1946923669
SNP_P4_115640_68370	NW_004515729.1	Scaffold167	68370	GG	CC	1946923671
SNP_P4_115641_68372	NW_004515729.1	Scaffold167	68372	TT	CC	1946923673
SNP_P4_115642_68440	NW_004515729.1	Scaffold167	68440	TT	CC	1946923675
SNP_P4_115643_68453	NW_004515729.1	Scaffold167	68453	GG	CC	1946923677
SNP_P4_115644_84148	NW_004515729.1	Scaffold167	84148	CC	TT	1946923679
SNP_P4_115645_137473	NW_004515729.1	Scaffold167	137473	TT	AA	1946923681
SNP_P4_115646_152983	NW_004515729.1	Scaffold167	152983	TT	GG	1946923683
SNP_P4_115647_153145	NW_004515729.1	Scaffold167	153145	AA	TT	1946923685
SNP_P4_115648_153163	NW_004515729.1	Scaffold167	153163	TT	CC	1946923687
SNP_P4_115649_169169	NW_004515729.1	Scaffold167	169169	TT	CC	1946923689
SNP_P4_115650_201732	NW_004515729.1	Scaffold167	201732	GG	AA	1946923691
SNP_P4_115651_201733	NW_004515729.1	Scaffold167	201733	GG	TT	1946923693
SNP_P4_115653_217802	NW_004515729.1	Scaffold167	217802	AA	CC	1946923695
SNP_P4_115654_217816	NW_004515729.1	Scaffold167	217816	TT	GG	1946923697
SNP_P4_115655_217837	NW_004515729.1	Scaffold167	217837	AA	GG	1946923699
SNP_P4_115656_217893	NW_004515729.1	Scaffold167	217893	GG	AA	1946923701
SNP_P4_115657_217925	NW_004515729.1	Scaffold167	217925	TT	CC	1946923703
SNP_P4_115658_217951	NW_004515729.1	Scaffold167	217951	GG	AA	1946923705
SNP_P4_115659_217956	NW_004515729.1	Scaffold167	217956	CC	TT	1946923708
SNP_P4_115660_219289	NW_004515729.1	Scaffold167	219289	AA	GG	1946923710
SNP_P4_115662_219319	NW_004515729.1	Scaffold167	219319	GG	AA	1946923712
SNP_P4_115663_219332	NW_004515729.1	Scaffold167	219332	TT	AA	1946923714
SNP_P4_115664_219384	NW_004515729.1	Scaffold167	219384	AA	GG	1946923716
SNP_P4_115665_219597	NW_004515729.1	Scaffold167	219597	TT	CC	1946923718
SNP_P4_115666_219605	NW_004515729.1	Scaffold167	219605	TT	AA	1946923720

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_115668_219851	NW_004515729.1	Scaffold167	219851	AA	GG	1946923725
SNP_P4_115669_219860	NW_004515729.1	Scaffold167	219860	CC	TT	1946923727
SNP_P4_115670_219868	NW_004515729.1	Scaffold167	219868	TT	CC	1946923729
SNP_P4_115671_219980	NW_004515729.1	Scaffold167	219980	AA	GG	1946923731
SNP_P4_115672_219992	NW_004515729.1	Scaffold167	219992	AA	GG	1946923733
SNP_P4_115673_220003	NW_004515729.1	Scaffold167	220003	AA	GG	1946923735
SNP_P4_115674_220059	NW_004515729.1	Scaffold167	220059	CC	GG	1946923737
SNP_P4_115675_220063	NW_004515729.1	Scaffold167	220063	CC	TT	1946923739
SNP_P4_115676_220072	NW_004515729.1	Scaffold167	220072	TT	CC	1946923741
SNP_P4_115677_220191	NW_004515729.1	Scaffold167	220191	AA	GG	1946923744
SNP_P4_115678_220229	NW_004515729.1	Scaffold167	220229	AA	CC	1946923746
SNP_P4_115679_220301	NW_004515729.1	Scaffold167	220301	AA	CC	1946923748
SNP_P4_115680_220303	NW_004515729.1	Scaffold167	220303	GG	AA	1946923750
SNP_P4_115681_220373	NW_004515729.1	Scaffold167	220373	TT	CC	1946923752
SNP_P4_115682_222353	NW_004515729.1	Scaffold167	222353	CC	TT	1946923754
SNP_P4_115683_222515	NW_004515729.1	Scaffold167	222515	AA	GG	1946923756
SNP_P4_115684_222648	NW_004515729.1	Scaffold167	222648	GG	AA	1946923758
SNP_P4_115685_222734	NW_004515729.1	Scaffold167	222734	AA	GG	1946923760
SNP_P4_115686_222802	NW_004515729.1	Scaffold167	222802	AA	GG	1946923762
SNP_P4_115687_222817	NW_004515729.1	Scaffold167	222817	GG	AA	1946923765
SNP_P4_115688_247493	NW_004515729.1	Scaffold167	247493	AA	GG	1946923767
SNP_P4_115689_274549	NW_004515729.1	Scaffold167	274549	TT	CC	1946923769
SNP_P4_115690_288900	NW_004515729.1	Scaffold167	288900	AA	TT	1946923771
SNP_P4_115691_288904	NW_004515729.1	Scaffold167	288904	CC	TT	1946923773
SNP_P4_115693_295259	NW_004515729.1	Scaffold167	295259	AA	GG	1946923775
SNP_P4_115694_298616	NW_004515729.1	Scaffold167	298616	AA	GG	1946923777
SNP_P4_115695_303081	NW_004515729.1	Scaffold167	303081	TT	CC	1946923779
SNP_P4_115696_303097	NW_004515729.1	Scaffold167	303097	AA	GG	1946923782
SNP_P4_115697_303098	NW_004515729.1	Scaffold167	303098	CC	AA	1946923784
SNP_P4_115698_303103	NW_004515729.1	Scaffold167	303103	CC	TT	1946923786
SNP_P4_115699_303143	NW_004515729.1	Scaffold167	303143	TT	CC	1946923788
SNP_P4_115700_303222	NW_004515729.1	Scaffold167	303222	GG	TT	1946923790
SNP_P4_115701_303286	NW_004515729.1	Scaffold167	303286	AA	GG	1946923792
SNP_P4_115702_303400	NW_004515729.1	Scaffold167	303400	GG	AA	1946923794
SNP_P4_115703_303429	NW_004515729.1	Scaffold167	303429	GG	AA	1946923796
SNP_P4_115704_303524	NW_004515729.1	Scaffold167	303524	GG	TT	1946923798
SNP_P4_115705_303528	NW_004515729.1	Scaffold167	303528	CC	TT	1946923800
SNP_P4_115706_303534	NW_004515729.1	Scaffold167	303534	AA	GG	1946923802
SNP_P4_115707_303553	NW_004515729.1	Scaffold167	303553	AA	GG	1946923805
SNP_P4_115708_303898	NW_004515729.1	Scaffold167	303898	TT	GG	1946923807
SNP_P4_115709_304581	NW_004515729.1	Scaffold167	304581	TT	CC	1946923809

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_115712_320806	NW_004515729.1	Scaffold167	320806	AA	GG	1946923815
SNP_P4_115713_320872	NW_004515729.1	Scaffold167	320872	AA	CC	1946923818
SNP_P4_115714_320898	NW_004515729.1	Scaffold167	320898	AA	CC	1946923820
SNP_P4_115715_322726	NW_004515729.1	Scaffold167	322726	AA	CC	1946923822
SNP_P4_115716_322778	NW_004515729.1	Scaffold167	322778	TT	AA	1946923824
SNP_P4_115717_323198	NW_004515729.1	Scaffold167	323198	CC	TT	1946923826
SNP_P4_115718_323210	NW_004515729.1	Scaffold167	323210	CC	TT	1946923829
SNP_P4_115719_331993	NW_004515729.1	Scaffold167	331993	CC	TT	1946923831
SNP_P4_115720_332023	NW_004515729.1	Scaffold167	332023	TT	CC	1946923833
SNP_P4_115721_332068	NW_004515729.1	Scaffold167	332068	AA	GG	1946923835
SNP_P4_115722_332305	NW_004515729.1	Scaffold167	332305	GG	TT	1946923837
SNP_P4_115723_332306	NW_004515729.1	Scaffold167	332306	TT	AA	1946923839
SNP_P4_115724_332321	NW_004515729.1	Scaffold167	332321	AA	GG	1946923841
SNP_P4_115725_332358	NW_004515729.1	Scaffold167	332358	GG	AA	1946923844
SNP_P4_115726_396936	NW_004515729.1	Scaffold167	396936	AA	GG	1946923846
SNP_P4_115727_404304	NW_004515729.1	Scaffold167	404304	GG	AA	1946923848
SNP_P4_115729_415237	NW_004515729.1	Scaffold167	415237	GG	TT	1946923850
SNP_P4_115730_415324	NW_004515729.1	Scaffold167	415324	TT	CC	1946923852
SNP_P4_115731_415356	NW_004515729.1	Scaffold167	415356	GG	AA	1946923854
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SNP_P4_115735_445425	NW_004515729.1	Scaffold167	445425	CC	TT	1946923861
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SNP_P4_115738_4669	NW_004515730.1	Scaffold170	4669	TT	CC	1946923867
SNP_P4_115739_5365	NW_004515730.1	Scaffold170	5365	TT	CC	1946923869
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SNP_P4_115741_5398	NW_004515730.1	Scaffold170	5398	AA	GG	1946923874
SNP_P4_115742_13454	NW_004515730.1	Scaffold170	13454	GG	AA	1946923876
SNP_P4_115743_13504	NW_004515730.1	Scaffold170	13504	TT	CC	1946923878
SNP_P4_115744_13676	NW_004515730.1	Scaffold170	13676	TT	CC	1946923880
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SNP_P4_115747_8159	NW_004515731.1	Scaffold171	8159	TT	CC	1946923885
SNP_P4_115748_8198	NW_004515731.1	Scaffold171	8198	AA	CC	1946923887
SNP_P4_115749_8211	NW_004515731.1	Scaffold171	8211	AA	GG	1946923889
SNP_P4_115750_12748	NW_004515731.1	Scaffold171	12748	CC	GG	1946923894
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SNP_P4_115752_15435	NW_004515731.1	Scaffold171	15435	AA	GG	1946923899
SNP_P4_115753_19475	NW_004515731.1	Scaffold171	19475	AA	GG	1946923901
SNP_P4_115754_20165	NW_004515731.1	Scaffold171	20165	CC	GG	1946923903

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_115757_26250	NW_004515731.1	Scaffold171	26250	AA	GG	1946923909
SNP_P4_115758_26486	NW_004515731.1	Scaffold171	26486	AA	CC	1946923911
SNP_P4_115759_26523	NW_004515731.1	Scaffold171	26523	TT	GG	1946923913
SNP_P4_115760_26607	NW_004515731.1	Scaffold171	26607	AA	GG	1946923915
SNP_P4_115761_26670	NW_004515731.1	Scaffold171	26670	GG	AA	1946923918
SNP_P4_115762_26692	NW_004515731.1	Scaffold171	26692	GG	AA	1946923920
SNP_P4_115763_26963	NW_004515731.1	Scaffold171	26963	GG	AA	1946923922
SNP_P4_115764_27040	NW_004515731.1	Scaffold171	27040	TT	GG	1946923924
SNP_P4_115765_36906	NW_004515731.1	Scaffold171	36906	AA	GG	1946923926
SNP_P4_115766_46292	NW_004515731.1	Scaffold171	46292	GG	AA	1946923929
SNP_P4_115767_48342	NW_004515731.1	Scaffold171	48342	CC	AA	1946923931
SNP_P4_115768_48372	NW_004515731.1	Scaffold171	48372	GG	AA	1946923933
SNP_P4_115769_49100	NW_004515731.1	Scaffold171	49100	TT	CC	1946923935
SNP_P4_115770_54472	NW_004515731.1	Scaffold171	54472	GG	AA	1946923937
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SNP_P4_115784_108233	NW_004515731.1	Scaffold171	108233	TT	CC	1946923962
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SNP_P4_115787_109773	NW_004515731.1	Scaffold171	109773	CC	TT	1946923966
SNP_P4_115789_119993	NW_004515731.1	Scaffold171	119993	AA	GG	1946923967
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SNP_P4_115793_123120	NW_004515731.1	Scaffold171	123120	TT	CC	1946923971
SNP_P4_115794_126193	NW_004515731.1	Scaffold171	126193	TT	AA	1946923973
SNP_P4_115795_129781	NW_004515731.1	Scaffold171	129781	AA	CC	1946923975
SNP_P4_115796_129815	NW_004515731.1	Scaffold171	129815	TT	CC	1946923977
SNP_P4_115797_130118	NW_004515731.1	Scaffold171	130118	TT	CC	1946923979
SNP_P4_115798_130193	NW_004515731.1	Scaffold171	130193	TT	CC	1946923981
SNP_P4_115799_130195	NW_004515731.1	Scaffold171	130195	CC	TT	1946923983
SNP_P4_115800_130412	NW_004515731.1	Scaffold171	130412	CC	TT	1946923984

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_115801_130420	NW_004515731.1	Scaffold171	130420	GG	AA	1946923986
SNP_P4_115802_130458	NW_004515731.1	Scaffold171	130458	CC	GG	1946923988
SNP_P4_115803_131175	NW_004515731.1	Scaffold171	131175	AA	TT	1946923990
SNP_P4_115804_135849	NW_004515731.1	Scaffold171	135849	TT	CC	1946923992
SNP_P4_115805_135952	NW_004515731.1	Scaffold171	135952	AA	GG	1946923994
SNP_P4_115806_136040	NW_004515731.1	Scaffold171	136040	GG	AA	1946923996
SNP_P4_115807_136051	NW_004515731.1	Scaffold171	136051	GG	AA	1946923998
SNP_P4_115808_136849	NW_004515731.1	Scaffold171	136849	AA	TT	1946924000
SNP_P4_115809_137095	NW_004515731.1	Scaffold171	137095	TT	AA	1946924002
SNP_P4_115810_137099	NW_004515731.1	Scaffold171	137099	CC	TT	1946924004
SNP_P4_115811_137153	NW_004515731.1	Scaffold171	137153	AA	GG	1946924006
SNP_P4_115812_137597	NW_004515731.1	Scaffold171	137597	TT	CC	1946924008
SNP_P4_115813_137841	NW_004515731.1	Scaffold171	137841	CC	AA	1946924011
SNP_P4_115814_137863	NW_004515731.1	Scaffold171	137863	AA	CC	1946924013
SNP_P4_115815_137945	NW_004515731.1	Scaffold171	137945	GG	AA	1946924015
SNP_P4_115816_137946	NW_004515731.1	Scaffold171	137946	TT	AA	1946924017
SNP_P4_115817_141631	NW_004515731.1	Scaffold171	141631	AA	GG	1946924019
SNP_P4_115818_142559	NW_004515731.1	Scaffold171	142559	CC	AA	1946924021
SNP_P4_115819_142564	NW_004515731.1	Scaffold171	142564	GG	AA	1946924023
SNP_P4_115820_142570	NW_004515731.1	Scaffold171	142570	AA	GG	1946924025
SNP_P4_115821_144598	NW_004515731.1	Scaffold171	144598	AA	GG	1946924027
SNP_P4_115822_145655	NW_004515731.1	Scaffold171	145655	TT	CC	1946924029
SNP_P4_115823_146714	NW_004515731.1	Scaffold171	146714	GG	AA	1946924031
SNP_P4_115824_146760	NW_004515731.1	Scaffold171	146760	AA	GG	1946924033
SNP_P4_115825_159656	NW_004515731.1	Scaffold171	159656	CC	AA	1946924035
SNP_P4_115826_181824	NW_004515731.1	Scaffold171	181824	TT	CC	1946924037
SNP_P4_115827_182491	NW_004515731.1	Scaffold171	182491	GG	AA	1946924039
SNP_P4_115828_182602	NW_004515731.1	Scaffold171	182602	TT	AA	1946924041
SNP_P4_115829_182699	NW_004515731.1	Scaffold171	182699	TT	CC	1946924043
SNP_P4_115830_186431	NW_004515731.1	Scaffold171	186431	CC	AA	1946924045
SNP_P4_115831_188135	NW_004515731.1	Scaffold171	188135	GG	AA	1946924047
SNP_P4_115832_188445	NW_004515731.1	Scaffold171	188445	AA	GG	1946924049
SNP_P4_115833_189871	NW_004515731.1	Scaffold171	189871	GG	AA	1946924051
SNP_P4_115834_190168	NW_004515731.1	Scaffold171	190168	CC	AA	1946924053
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SNP_P4_115836_192974	NW_004515731.1	Scaffold171	192974	AA	CC	1946924057
SNP_P4_115837_193165	NW_004515731.1	Scaffold171	193165	TT	CC	1946924059
SNP_P4_115838_200039	NW_004515731.1	Scaffold171	200039	TT	GG	1946924061
SNP_P4_115839_200785	NW_004515731.1	Scaffold171	200785	TT	CC	1946924063
SNP_P4_115840_205853	NW_004515731.1	Scaffold171	205853	GG	TT	1946924065
SNP_P4_115841_209599	NW_004515731.1	Scaffold171	209599	AA	TT	1946924067
SNP_P4_115843_217406	NW_004515731.1	Scaffold171	217406	TT	GG	1946924069

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_115845_219268	NW_004515731.1	Scaffold171	219268	GG	AA	1946924073
SNP_P4_115846_219951	NW_004515731.1	Scaffold171	219951	CC	GG	1946924075
SNP_P4_115848_223744	NW_004515731.1	Scaffold171	223744	TT	CC	1946924077
SNP_P4_115850_225896	NW_004515731.1	Scaffold171	225896	CC	TT	1946924079
SNP_P4_115851_229343	NW_004515731.1	Scaffold171	229343	AA	GG	1946924081
SNP_P4_115852_234892	NW_004515731.1	Scaffold171	234892	AA	GG	1946924083
SNP_P4_115853_243225	NW_004515731.1	Scaffold171	243225	GG	AA	1946924085
SNP_P4_115854_1802	NW_004515733.1	Scaffold174	1802	GG	AA	1946924087
SNP_P4_115855_1811	NW_004515733.1	Scaffold174	1811	AA	TT	1946924089
SNP_P4_115856_1812	NW_004515733.1	Scaffold174	1812	GG	AA	1946924091
SNP_P4_115857_1813	NW_004515733.1	Scaffold174	1813	TT	GG	1946924093
SNP_P4_115858_1850	NW_004515733.1	Scaffold174	1850	TT	GG	1946924095
SNP_P4_115859_1863	NW_004515733.1	Scaffold174	1863	AA	GG	1946924097
SNP_P4_115860_1870	NW_004515733.1	Scaffold174	1870	CC	TT	1946924099
SNP_P4_115861_1912	NW_004515733.1	Scaffold174	1912	GG	AA	1946924101
SNP_P4_115862_1943	NW_004515733.1	Scaffold174	1943	TT	AA	1946924103
SNP_P4_115863_4591	NW_004515733.1	Scaffold174	4591	TT	AA	1946924105
SNP_P4_115864_5210	NW_004515733.1	Scaffold174	5210	CC	AA	1946924107
SNP_P4_115865_8364	NW_004515733.1	Scaffold174	8364	GG	AA	1946924109
SNP_P4_115867_9861	NW_004515733.1	Scaffold174	9861	CC	TT	1946924111
SNP_P4_115868_11220	NW_004515733.1	Scaffold174	11220	CC	TT	1946924113
SNP_P4_115869_11239	NW_004515733.1	Scaffold174	11239	CC	TT	1946924115
SNP_P4_115871_12526	NW_004515733.1	Scaffold174	12526	CC	TT	1946924117
SNP_P4_115872_14918	NW_004515733.1	Scaffold174	14918	GG	TT	1946924119
SNP_P4_115873_15154	NW_004515733.1	Scaffold174	15154	AA	GG	1946924121
SNP_P4_115874_20685	NW_004515733.1	Scaffold174	20685	AA	GG	1946924123
SNP_P4_115875_21311	NW_004515733.1	Scaffold174	21311	CC	AA	1946924125
SNP_P4_115876_21321	NW_004515733.1	Scaffold174	21321	AA	TT	1946924127
SNP_P4_115877_21606	NW_004515733.1	Scaffold174	21606	TT	CC	1946924129
SNP_P4_115878_23182	NW_004515733.1	Scaffold174	23182	AA	GG	1946924131
SNP_P4_115879_23646	NW_004515733.1	Scaffold174	23646	CC	TT	1946924133
SNP_P4_115880_24064	NW_004515733.1	Scaffold174	24064	CC	TT	1946924136
SNP_P4_115881_24178	NW_004515733.1	Scaffold174	24178	TT	CC	1946924138
SNP_P4_115882_26297	NW_004515733.1	Scaffold174	26297	TT	CC	1946924140
SNP_P4_115883_26419	NW_004515733.1	Scaffold174	26419	AA	GG	1946924142
SNP_P4_115884_26703	NW_004515733.1	Scaffold174	26703	GG	TT	1946924144
SNP_P4_115885_27218	NW_004515733.1	Scaffold174	27218	TT	AA	1946924146
SNP_P4_115886_28581	NW_004515733.1	Scaffold174	28581	TT	AA	1946924148
SNP_P4_115887_29024	NW_004515733.1	Scaffold174	29024	TT	CC	1946924150
SNP_P4_115888_40631	NW_004515733.1	Scaffold174	40631	AA	GG	1946924152
SNP_P4_115889_41075	NW_004515733.1	Scaffold174	41075	GG	CC	1946924154

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_115892_59227	NW_004515733.1	Scaffold174	59227	TT	CC	1946924158
SNP_P4_115893_68115	NW_004515733.1	Scaffold174	68115	TT	CC	1946924160
SNP_P4_115894_70888	NW_004515733.1	Scaffold174	70888	CC	TT	1946924162
SNP_P4_115895_85259	NW_004515733.1	Scaffold174	85259	CC	TT	1946924164
SNP_P4_115896_85280	NW_004515733.1	Scaffold174	85280	CC	TT	1946924166
SNP_P4_115897_85445	NW_004515733.1	Scaffold174	85445	TT	CC	1946924168
SNP_P4_115899_89898	NW_004515733.1	Scaffold174	89898	TT	CC	1946924170
SNP_P4_115900_89899	NW_004515733.1	Scaffold174	89899	AA	GG	1946924172
SNP_P4_115901_89909	NW_004515733.1	Scaffold174	89909	GG	AA	1946924174
SNP_P4_115902_89934	NW_004515733.1	Scaffold174	89934	CC	TT	1946924176
SNP_P4_115903_89945	NW_004515733.1	Scaffold174	89945	TT	AA	1946924178
SNP_P4_115904_89958	NW_004515733.1	Scaffold174	89958	AA	CC	1946924180
SNP_P4_115905_89977	NW_004515733.1	Scaffold174	89977	AA	GG	1946924182
SNP_P4_115906_89997	NW_004515733.1	Scaffold174	89997	GG	TT	1946924184
SNP_P4_115907_90018	NW_004515733.1	Scaffold174	90018	AA	GG	1946924186
SNP_P4_115908_90034	NW_004515733.1	Scaffold174	90034	GG	AA	1946924188
SNP_P4_115909_90051	NW_004515733.1	Scaffold174	90051	AA	GG	1946924190
SNP_P4_115910_90107	NW_004515733.1	Scaffold174	90107	AA	TT	1946924192
SNP_P4_115911_90187	NW_004515733.1	Scaffold174	90187	AA	TT	1946924195
SNP_P4_115912_90219	NW_004515733.1	Scaffold174	90219	TT	CC	1946924197
SNP_P4_115913_90416	NW_004515733.1	Scaffold174	90416	AA	GG	1946924199
SNP_P4_115914_90478	NW_004515733.1	Scaffold174	90478	TT	AA	1946924201
SNP_P4_115915_90531	NW_004515733.1	Scaffold174	90531	TT	CC	1946924203
SNP_P4_115916_92669	NW_004515733.1	Scaffold174	92669	CC	TT	1946924205
SNP_P4_115917_99433	NW_004515733.1	Scaffold174	99433	GG	AA	1946924208
SNP_P4_115918_101506	NW_004515733.1	Scaffold174	101506	GG	CC	1946924210
SNP_P4_115919_101693	NW_004515733.1	Scaffold174	101693	TT	AA	1946924212
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SNP_P4_115922_103465	NW_004515733.1	Scaffold174	103465	CC	TT	1946924216
SNP_P4_115923_104277	NW_004515733.1	Scaffold174	104277	CC	TT	1946924218
SNP_P4_115924_105120	NW_004515733.1	Scaffold174	105120	AA	CC	1946924220
SNP_P4_115925_107834	NW_004515733.1	Scaffold174	107834	CC	TT	1946924222
SNP_P4_115926_107867	NW_004515733.1	Scaffold174	107867	AA	GG	1946924224
SNP_P4_115928_111251	NW_004515733.1	Scaffold174	111251	AA	GG	1946924226
SNP_P4_115929_121612	NW_004515733.1	Scaffold174	121612	AA	CC	1946924228
SNP_P4_115930_124181	NW_004515733.1	Scaffold174	124181	CC	TT	1946924230
SNP_P4_115931_124582	NW_004515733.1	Scaffold174	124582	AA	TT	1946924232
SNP_P4_115933_130395	NW_004515733.1	Scaffold174	130395	CC	TT	1946924235
SNP_P4_115934_131295	NW_004515733.1	Scaffold174	131295	AA	CC	1946924237
SNP_P4_115935_133639	NW_004515733.1	Scaffold174	133639	GG	AA	1946924239
SNP_P4_115936_136440	NW_004515733.1	Scaffold174	136440	CC	AA	1946924241

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_115939_142242	NW_004515733.1	Scaffold174	142242	AA	GG	1946924245
SNP_P4_115940_142723	NW_004515733.1	Scaffold174	142723	CC	TT	1946924247
SNP_P4_115941_143055	NW_004515733.1	Scaffold174	143055	AA	GG	1946924250
SNP_P4_115942_143120	NW_004515733.1	Scaffold174	143120	TT	GG	1946924252
SNP_P4_115944_146033	NW_004515733.1	Scaffold174	146033	TT	CC	1946924254
SNP_P4_115945_148923	NW_004515733.1	Scaffold174	148923	GG	TT	1946924256
SNP_P4_115946_151868	NW_004515733.1	Scaffold174	151868	TT	GG	1946924258
SNP_P4_115947_151880	NW_004515733.1	Scaffold174	151880	AA	GG	1946924260
SNP_P4_115948_152419	NW_004515733.1	Scaffold174	152419	GG	AA	1946924262
SNP_P4_115950_155493	NW_004515733.1	Scaffold174	155493	AA	CC	1946924264
SNP_P4_115951_158891	NW_004515733.1	Scaffold174	158891	AA	CC	1946924267
SNP_P4_115952_163420	NW_004515733.1	Scaffold174	163420	CC	TT	1946924269
SNP_P4_115953_165203	NW_004515733.1	Scaffold174	165203	CC	TT	1946924271
SNP_P4_115954_166309	NW_004515733.1	Scaffold174	166309	AA	CC	1946924273
SNP_P4_115955_167603	NW_004515733.1	Scaffold174	167603	AA	TT	1946924275
SNP_P4_115957_167695	NW_004515733.1	Scaffold174	167695	AA	GG	1946924277
SNP_P4_115958_167711	NW_004515733.1	Scaffold174	167711	AA	TT	1946924280
SNP_P4_115959_168624	NW_004515733.1	Scaffold174	168624	CC	TT	1946924282
SNP_P4_115960_174296	NW_004515733.1	Scaffold174	174296	GG	AA	1946924284
SNP_P4_115961_174301	NW_004515733.1	Scaffold174	174301	GG	AA	1946924286
SNP_P4_115962_174316	NW_004515733.1	Scaffold174	174316	GG	AA	1946924288
SNP_P4_115963_174610	NW_004515733.1	Scaffold174	174610	TT	GG	1946924290
SNP_P4_115964_174622	NW_004515733.1	Scaffold174	174622	TT	GG	1946924292
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SNP_P4_115972_185403	NW_004515733.1	Scaffold174	185403	CC	TT	1946924304
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SNP_P4_115976_191359	NW_004515733.1	Scaffold174	191359	CC	GG	1946924310
SNP_P4_115977_191675	NW_004515733.1	Scaffold174	191675	CC	TT	1946924313
SNP_P4_115979_194890	NW_004515733.1	Scaffold174	194890	TT	GG	1946924315
SNP_P4_115980_195384	NW_004515733.1	Scaffold174	195384	TT	AA	1946924317
SNP_P4_115981_195676	NW_004515733.1	Scaffold174	195676	AA	GG	1946924319
SNP_P4_115982_195969	NW_004515733.1	Scaffold174	195969	AA	TT	1946924320
SNP_P4_115983_196352	NW_004515733.1	Scaffold174	196352	TT	CC	1946924322
SNP_P4_115984_196737	NW_004515733.1	Scaffold174	196737	AA	GG	1946924324
SNP_P4_115985_198560	NW_004515733.1	Scaffold174	198560	TT	GG	1946924326
SNP_P4_115986_199040	NW_004515733.1	Scaffold174	199040	GG	AA	1946924328

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_115988_200942	NW_004515733.1	Scaffold174	200942	TT	GG	1946924332
SNP_P4_115989_200954	NW_004515733.1	Scaffold174	200954	GG	CC	1946924334
SNP_P4_115990_201018	NW_004515733.1	Scaffold174	201018	AA	TT	1946924336
SNP_P4_115993_201833	NW_004515733.1	Scaffold174	201833	CC	AA	1946924338
SNP_P4_115994_202282	NW_004515733.1	Scaffold174	202282	TT	GG	1946924340
SNP_P4_115995_202324	NW_004515733.1	Scaffold174	202324	GG	AA	1946924342
SNP_P4_115996_202359	NW_004515733.1	Scaffold174	202359	TT	CC	1946924344
SNP_P4_115997_205024	NW_004515733.1	Scaffold174	205024	GG	AA	1946924346
SNP_P4_115998_207958	NW_004515733.1	Scaffold174	207958	AA	GG	1946924348
SNP_P4_115999_208366	NW_004515733.1	Scaffold174	208366	TT	AA	1946924350
SNP_P4_116001_208578	NW_004515733.1	Scaffold174	208578	AA	GG	1946924352
SNP_P4_116002_208766	NW_004515733.1	Scaffold174	208766	TT	GG	1946924354
SNP_P4_116003_209136	NW_004515733.1	Scaffold174	209136	CC	TT	1946924356
SNP_P4_116004_209469	NW_004515733.1	Scaffold174	209469	TT	CC	1946924358
SNP_P4_116005_209832	NW_004515733.1	Scaffold174	209832	TT	GG	1946924360
SNP_P4_116006_210057	NW_004515733.1	Scaffold174	210057	TT	CC	1946924362
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SNP_P4_116016_237424	NW_004515733.1	Scaffold174	237424	CC	TT	1946924380
SNP_P4_116017_238299	NW_004515733.1	Scaffold174	238299	CC	TT	1946924382
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SNP_P4_116020_262589	NW_004515733.1	Scaffold174	262589	CC	TT	1946924388
SNP_P4_116021_262608	NW_004515733.1	Scaffold174	262608	CC	TT	1946924390
SNP_P4_116022_262625	NW_004515733.1	Scaffold174	262625	AA	CC	1946924392
SNP_P4_116023_270025	NW_004515733.1	Scaffold174	270025	GG	AA	1946924394
SNP_P4_116024_270081	NW_004515733.1	Scaffold174	270081	CC	TT	1946924396
SNP_P4_116025_277620	NW_004515733.1	Scaffold174	277620	CC	TT	1946924398
SNP_P4_116026_278559	NW_004515733.1	Scaffold174	278559	AA	GG	1946924401
SNP_P4_116027_281357	NW_004515733.1	Scaffold174	281357	AA	GG	1946924403
SNP_P4_116028_285204	NW_004515733.1	Scaffold174	285204	AA	GG	1946924405
SNP_P4_116029_285608	NW_004515733.1	Scaffold174	285608	CC	TT	1946924407
SNP_P4_116030_287039	NW_004515733.1	Scaffold174	287039	TT	CC	1946924409
SNP_P4_116031_287042	NW_004515733.1	Scaffold174	287042	TT	CC	1946924411
SNP_P4_116033_299335	NW_004515733.1	Scaffold174	299335	GG	AA	1946924413

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_116036_320206	NW_004515733.1	Scaffold174	320206	AA	GG	1946924415
SNP_P4_116037_322743	NW_004515733.1	Scaffold174	322743	TT	CC	1946924417
SNP_P4_116038_324336	NW_004515733.1	Scaffold174	324336	CC	TT	1946924419
SNP_P4_116039_325765	NW_004515733.1	Scaffold174	325765	AA	GG	1946924421
SNP_P4_116040_326076	NW_004515733.1	Scaffold174	326076	GG	TT	1946924423
SNP_P4_116041_330356	NW_004515733.1	Scaffold174	330356	GG	AA	1946924425
SNP_P4_116042_341032	NW_004515733.1	Scaffold174	341032	GG	AA	1946924427
SNP_P4_116043_347921	NW_004515733.1	Scaffold174	347921	TT	AA	1946924429
SNP_P4_116044_349922	NW_004515733.1	Scaffold174	349922	AA	CC	1946924431
SNP_P4_116048_350583	NW_004515733.1	Scaffold174	350583	AA	GG	1946924434
SNP_P4_116049_350878	NW_004515733.1	Scaffold174	350878	CC	TT	1946924436
SNP_P4_116050_352099	NW_004515733.1	Scaffold174	352099	TT	CC	1946924438
SNP_P4_116051_352583	NW_004515733.1	Scaffold174	352583	TT	CC	1946924440
SNP_P4_116052_352584	NW_004515733.1	Scaffold174	352584	AA	GG	1946924442
SNP_P4_116053_352629	NW_004515733.1	Scaffold174	352629	TT	GG	1946924444
SNP_P4_116054_352779	NW_004515733.1	Scaffold174	352779	AA	CC	1946924446
SNP_P4_116055_352830	NW_004515733.1	Scaffold174	352830	AA	GG	1946924448
SNP_P4_116056_352831	NW_004515733.1	Scaffold174	352831	AA	GG	1946924450
SNP_P4_116057_353084	NW_004515733.1	Scaffold174	353084	TT	CC	1946924452
SNP_P4_116058_354471	NW_004515733.1	Scaffold174	354471	AA	GG	1946924454
SNP_P4_116060_363172	NW_004515733.1	Scaffold174	363172	CC	TT	1946924456
SNP_P4_116061_363516	NW_004515733.1	Scaffold174	363516	GG	AA	1946924458
SNP_P4_116063_369731	NW_004515733.1	Scaffold174	369731	AA	TT	1946924460
SNP_P4_116064_369988	NW_004515733.1	Scaffold174	369988	GG	AA	1946924462
SNP_P4_116065_370951	NW_004515733.1	Scaffold174	370951	AA	GG	1946924464
SNP_P4_116066_371295	NW_004515733.1	Scaffold174	371295	AA	GG	1946924466
SNP_P4_116067_372975	NW_004515733.1	Scaffold174	372975	TT	AA	1946924468
SNP_P4_116068_374790	NW_004515733.1	Scaffold174	374790	TT	CC	1946924470
SNP_P4_116069_375087	NW_004515733.1	Scaffold174	375087	CC	GG	1946924472
SNP_P4_116070_375913	NW_004515733.1	Scaffold174	375913	TT	CC	1946924474
SNP_P4_116072_380284	NW_004515733.1	Scaffold174	380284	AA	GG	1946924476
SNP_P4_116073_381012	NW_004515733.1	Scaffold174	381012	CC	TT	1946924478
SNP_P4_116074_381363	NW_004515733.1	Scaffold174	381363	AA	GG	1946924480
SNP_P4_116075_381583	NW_004515733.1	Scaffold174	381583	GG	CC	1946924482
SNP_P4_116076_381608	NW_004515733.1	Scaffold174	381608	CC	TT	1946924484
SNP_P4_116077_381641	NW_004515733.1	Scaffold174	381641	CC	TT	1946924486
SNP_P4_116078_381829	NW_004515733.1	Scaffold174	381829	CC	TT	1946924488
SNP_P4_116079_382812	NW_004515733.1	Scaffold174	382812	CC	TT	1946924490
SNP_P4_116080_382857	NW_004515733.1	Scaffold174	382857	TT	CC	1946924492
SNP_P4_116081_382859	NW_004515733.1	Scaffold174	382859	GG	AA	1946924494
SNP_P4_116082_383184	NW_004515733.1	Scaffold174	383184	AA	GG	1946924496
SNP_P4_116083_384251	NW_004515733.1	Scaffold174	384251	AA	GG	1946924498

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_116085_390078	NW_004515733.1	Scaffold174	390078	CC	TT	1946924502
SNP_P4_116086_390083	NW_004515733.1	Scaffold174	390083	AA	CC	1946924504
SNP_P4_116088_398056	NW_004515733.1	Scaffold174	398056	TT	GG	1946924506
SNP_P4_116089_398965	NW_004515733.1	Scaffold174	398965	AA	CC	1946924508
SNP_P4_116090_407462	NW_004515733.1	Scaffold174	407462	GG	AA	1946924510
SNP_P4_116091_407536	NW_004515733.1	Scaffold174	407536	TT	CC	1946924512
SNP_P4_116092_408583	NW_004515733.1	Scaffold174	408583	TT	AA	1946924514
SNP_P4_116093_409166	NW_004515733.1	Scaffold174	409166	AA	TT	1946924516
SNP_P4_116094_409241	NW_004515733.1	Scaffold174	409241	AA	CC	1946924518
SNP_P4_116095_409257	NW_004515733.1	Scaffold174	409257	AA	GG	1946924520
SNP_P4_116096_409350	NW_004515733.1	Scaffold174	409350	AA	GG	1946924522
SNP_P4_116097_409399	NW_004515733.1	Scaffold174	409399	TT	GG	1946924524
SNP_P4_116098_418691	NW_004515733.1	Scaffold174	418691	GG	TT	1946924526
SNP_P4_116099_418755	NW_004515733.1	Scaffold174	418755	TT	CC	1946924528
SNP_P4_116100_420254	NW_004515733.1	Scaffold174	420254	GG	AA	1946924530
SNP_P4_116101_421757	NW_004515733.1	Scaffold174	421757	AA	GG	1946924532
SNP_P4_116103_422255	NW_004515733.1	Scaffold174	422255	TT	CC	1946924534
SNP_P4_116104_422257	NW_004515733.1	Scaffold174	422257	AA	GG	1946924536
SNP_P4_116105_422828	NW_004515733.1	Scaffold174	422828	TT	AA	1946924538
SNP_P4_116106_424191	NW_004515733.1	Scaffold174	424191	GG	AA	1946924540
SNP_P4_116108_424653	NW_004515733.1	Scaffold174	424653	GG	TT	1946924542
SNP_P4_116109_424888	NW_004515733.1	Scaffold174	424888	GG	AA	1946924544
SNP_P4_116110_429088	NW_004515733.1	Scaffold174	429088	CC	TT	1946924546
SNP_P4_116111_429267	NW_004515733.1	Scaffold174	429267	GG	AA	1946924548
SNP_P4_116112_430454	NW_004515733.1	Scaffold174	430454	AA	TT	1946924550
SNP_P4_116113_431014	NW_004515733.1	Scaffold174	431014	TT	CC	1946924552
SNP_P4_116114_431222	NW_004515733.1	Scaffold174	431222	GG	AA	1946924554
SNP_P4_116115_433578	NW_004515733.1	Scaffold174	433578	CC	TT	1946924556
SNP_P4_116117_447018	NW_004515733.1	Scaffold174	447018	AA	CC	1946924559
SNP_P4_116118_447071	NW_004515733.1	Scaffold174	447071	GG	CC	1946924561
SNP_P4_116120_448927	NW_004515733.1	Scaffold174	448927	TT	AA	1946924563
SNP_P4_116122_451990	NW_004515733.1	Scaffold174	451990	AA	GG	1946924565
SNP_P4_116123_455192	NW_004515733.1	Scaffold174	455192	TT	CC	1946924567
SNP_P4_116124_456834	NW_004515733.1	Scaffold174	456834	AA	CC	1946924569
SNP_P4_116125_457133	NW_004515733.1	Scaffold174	457133	TT	CC	1946924571
SNP_P4_116126_460569	NW_004515733.1	Scaffold174	460569	CC	AA	1946924573
SNP_P4_116127_462651	NW_004515733.1	Scaffold174	462651	AA	GG	1946924575
SNP_P4_116128_462730	NW_004515733.1	Scaffold174	462730	CC	TT	1946924577
SNP_P4_116129_465634	NW_004515733.1	Scaffold174	465634	TT	CC	1946924579
SNP_P4_116130_465705	NW_004515733.1	Scaffold174	465705	TT	CC	1946924582
SNP_P4_116132_466046	NW_004515733.1	Scaffold174	466046	GG	AA	1946924584

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_116133_466683	NW_004515733.1	Scaffold174	466683	AA	CC	1946924586
SNP_P4_116134_470465	NW_004515733.1	Scaffold174	470465	CC	TT	1946924588
SNP_P4_116135_470510	NW_004515733.1	Scaffold174	470510	AA	GG	1946924590
SNP_P4_116136_470520	NW_004515733.1	Scaffold174	470520	GG	TT	1946924592
SNP_P4_116137_470528	NW_004515733.1	Scaffold174	470528	AA	TT	1946924594
SNP_P4_116138_470534	NW_004515733.1	Scaffold174	470534	CC	AA	1946924596
SNP_P4_116139_470558	NW_004515733.1	Scaffold174	470558	GG	AA	1946924599
SNP_P4_116140_470587	NW_004515733.1	Scaffold174	470587	AA	GG	1946924601
SNP_P4_116142_470693	NW_004515733.1	Scaffold174	470693	GG	AA	1946924603
SNP_P4_116143_470849	NW_004515733.1	Scaffold174	470849	TT	CC	1946924605
SNP_P4_116144_470971	NW_004515733.1	Scaffold174	470971	GG	CC	1946924607
SNP_P4_116145_479242	NW_004515733.1	Scaffold174	479242	GG	TT	1946924609
SNP_P4_116146_479560	NW_004515733.1	Scaffold174	479560	CC	TT	1946924611
SNP_P4_116147_479714	NW_004515733.1	Scaffold174	479714	TT	GG	1946924613
SNP_P4_116148_479730	NW_004515733.1	Scaffold174	479730	GG	TT	1946924615
SNP_P4_116149_479760	NW_004515733.1	Scaffold174	479760	AA	CC	1946924617
SNP_P4_116150_479837	NW_004515733.1	Scaffold174	479837	GG	AA	1946924619
SNP_P4_116151_479912	NW_004515733.1	Scaffold174	479912	GG	TT	1946924621
SNP_P4_116153_483295	NW_004515733.1	Scaffold174	483295	GG	TT	1946924623
SNP_P4_116155_487778	NW_004515733.1	Scaffold174	487778	AA	GG	1946924625
SNP_P4_116156_495055	NW_004515733.1	Scaffold174	495055	AA	TT	1946924627
SNP_P4_116157_498039	NW_004515733.1	Scaffold174	498039	TT	CC	1946924629
SNP_P4_116158_498053	NW_004515733.1	Scaffold174	498053	TT	AA	1946924631
SNP_P4_116161_38709	NW_004515735.1	Scaffold181	38709	CC	TT	1946924633
SNP_P4_116162_68347	NW_004515735.1	Scaffold181	68347	AA	GG	1946924635
SNP_P4_116163_68352	NW_004515735.1	Scaffold181	68352	CC	AA	1946924637
SNP_P4_116165_94267	NW_004515735.1	Scaffold181	94267	AA	CC	1946924638
SNP_P4_116166_94294	NW_004515735.1	Scaffold181	94294	GG	TT	1946924639
SNP_P4_116167_94330	NW_004515735.1	Scaffold181	94330	AA	GG	1946924640
SNP_P4_116168_94337	NW_004515735.1	Scaffold181	94337	AA	CC	1946924642
SNP_P4_116169_104025	NW_004515735.1	Scaffold181	104025	CC	TT	1946924644
SNP_P4_116170_104027	NW_004515735.1	Scaffold181	104027	AA	GG	1946924646
SNP_P4_116171_117194	NW_004515735.1	Scaffold181	117194	CC	TT	1946924648
SNP_P4_116172_122547	NW_004515735.1	Scaffold181	122547	GG	TT	1946924650
SNP_P4_116174_183018	NW_004515735.1	Scaffold181	183018	AA	GG	1946924652
SNP_P4_116175_183383	NW_004515735.1	Scaffold181	183383	GG	CC	1946924654
SNP_P4_116176_185776	NW_004515735.1	Scaffold181	185776	AA	GG	1946924656
SNP_P4_116177_203774	NW_004515735.1	Scaffold181	203774	AA	GG	1946924658
SNP_P4_116178_4230	NW_004515738.1	Scaffold186	4230	TT	CC	1946924660
SNP_P4_116179_17042	NW_004515738.1	Scaffold186	17042	TT	CC	1946924662
SNP_P4_116180_25807	NW_004515738.1	Scaffold186	25807	GG	TT	1946924664
SNP_P4_116181_25834	NW_004515738.1	Scaffold186	25834	CC	AA	1946924666

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_116184_77320	NW_004515738.1	Scaffold186	77320	CC	TT	1946924670
SNP_P4_116186_79299	NW_004515738.1	Scaffold186	79299	AA	CC	1946924672
SNP_P4_116187_79326	NW_004515738.1	Scaffold186	79326	GG	AA	1946924674
SNP_P4_116188_79332	NW_004515738.1	Scaffold186	79332	GG	AA	1946924676
SNP_P4_116189_95184	NW_004515738.1	Scaffold186	95184	AA	GG	1946924678
SNP_P4_116190_112341	NW_004515738.1	Scaffold186	112341	CC	TT	1946924679
SNP_P4_116191_112348	NW_004515738.1	Scaffold186	112348	TT	CC	1946924681
SNP_P4_116193_124086	NW_004515738.1	Scaffold186	124086	TT	CC	1946924683
SNP_P4_116194_124727	NW_004515738.1	Scaffold186	124727	CC	TT	1946924685
SNP_P4_116195_125093	NW_004515738.1	Scaffold186	125093	CC	TT	1946924687
SNP_P4_116196_125184	NW_004515738.1	Scaffold186	125184	AA	GG	1946924689
SNP_P4_116197_142612	NW_004515738.1	Scaffold186	142612	AA	TT	1946924691
SNP_P4_116198_146091	NW_004515738.1	Scaffold186	146091	TT	CC	1946924693
SNP_P4_116199_151481	NW_004515738.1	Scaffold186	151481	CC	TT	1946924696
SNP_P4_116200_151539	NW_004515738.1	Scaffold186	151539	CC	TT	1946924698
SNP_P4_116201_151599	NW_004515738.1	Scaffold186	151599	AA	TT	1946924700
SNP_P4_116202_151641	NW_004515738.1	Scaffold186	151641	AA	GG	1946924702
SNP_P4_116203_152903	NW_004515738.1	Scaffold186	152903	CC	TT	1946924704
SNP_P4_116204_176380	NW_004515738.1	Scaffold186	176380	TT	GG	1946924706
SNP_P4_116205_176412	NW_004515738.1	Scaffold186	176412	TT	CC	1946924708
SNP_P4_116206_176491	NW_004515738.1	Scaffold186	176491	CC	TT	1946924710
SNP_P4_116207_176492	NW_004515738.1	Scaffold186	176492	AA	GG	1946924712
SNP_P4_116208_176736	NW_004515738.1	Scaffold186	176736	CC	TT	1946924714
SNP_P4_116209_176782	NW_004515738.1	Scaffold186	176782	CC	TT	1946924716
SNP_P4_116210_176826	NW_004515738.1	Scaffold186	176826	GG	CC	1946924719
SNP_P4_116211_176828	NW_004515738.1	Scaffold186	176828	TT	CC	1946924721
SNP_P4_116212_176830	NW_004515738.1	Scaffold186	176830	CC	AA	1946924723
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SNP_P4_116215_176867	NW_004515738.1	Scaffold186	176867	AA	GG	1946924729
SNP_P4_116217_178782	NW_004515738.1	Scaffold186	178782	GG	CC	1946924731
SNP_P4_116218_178783	NW_004515738.1	Scaffold186	178783	TT	CC	1946924733
SNP_P4_116219_178816	NW_004515738.1	Scaffold186	178816	CC	TT	1946924735
SNP_P4_116220_178827	NW_004515738.1	Scaffold186	178827	AA	GG	1946924737
SNP_P4_116221_178840	NW_004515738.1	Scaffold186	178840	CC	TT	1946924739
SNP_P4_116222_178849	NW_004515738.1	Scaffold186	178849	TT	AA	1946924741
SNP_P4_116223_178933	NW_004515738.1	Scaffold186	178933	GG	AA	1946924743
SNP_P4_116224_178957	NW_004515738.1	Scaffold186	178957	CC	TT	1946924745
SNP_P4_116225_179100	NW_004515738.1	Scaffold186	179100	GG	AA	1946924747
SNP_P4_116226_179146	NW_004515738.1	Scaffold186	179146	TT	CC	1946924749
SNP_P4_116227_222499	NW_004515738.1	Scaffold186	222499	TT	AA	1946924751

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_116231_252533	NW_004515738.1	Scaffold186	252533	GG	AA	1946924755
SNP_P4_116232_274375	NW_004515738.1	Scaffold186	274375	AA	GG	1946924757
SNP_P4_116233_304782	NW_004515738.1	Scaffold186	304782	CC	TT	1946924759
SNP_P4_116234_307483	NW_004515738.1	Scaffold186	307483	AA	GG	1946924761
SNP_P4_116235_307530	NW_004515738.1	Scaffold186	307530	TT	CC	1946924763
SNP_P4_116236_310844	NW_004515738.1	Scaffold186	310844	AA	GG	1946924765
SNP_P4_116237_311229	NW_004515738.1	Scaffold186	311229	CC	AA	1946924767
SNP_P4_116238_311236	NW_004515738.1	Scaffold186	311236	CC	AA	1946924769
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SNP_P4_116240_311428	NW_004515738.1	Scaffold186	311428	GG	AA	1946924773
SNP_P4_116241_311432	NW_004515738.1	Scaffold186	311432	CC	TT	1946924775
SNP_P4_116242_311433	NW_004515738.1	Scaffold186	311433	AA	GG	1946924777
SNP_P4_116243_311439	NW_004515738.1	Scaffold186	311439	CC	GG	1946924779
SNP_P4_116244_318210	NW_004515738.1	Scaffold186	318210	AA	GG	1946924781
SNP_P4_116245_331026	NW_004515738.1	Scaffold186	331026	TT	AA	1946924783
SNP_P4_116246_331893	NW_004515738.1	Scaffold186	331893	GG	TT	1946924785
SNP_P4_116247_331923	NW_004515738.1	Scaffold186	331923	CC	TT	1946924787
SNP_P4_116248_331945	NW_004515738.1	Scaffold186	331945	CC	GG	1946924789
SNP_P4_116249_331951	NW_004515738.1	Scaffold186	331951	CC	TT	1946924791
SNP_P4_116250_349630	NW_004515738.1	Scaffold186	349630	GG	AA	1946924793
SNP_P4_116251_349659	NW_004515738.1	Scaffold186	349659	GG	AA	1946924795
SNP_P4_116252_349708	NW_004515738.1	Scaffold186	349708	CC	AA	1946924797
SNP_P4_116253_351024	NW_004515738.1	Scaffold186	351024	AA	GG	1946924799
SNP_P4_116254_351043	NW_004515738.1	Scaffold186	351043	GG	TT	1946924802
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SNP_P4_116256_351440	NW_004515738.1	Scaffold186	351440	TT	GG	1946924806
SNP_P4_116257_351515	NW_004515738.1	Scaffold186	351515	TT	AA	1946924808
SNP_P4_116258_361658	NW_004515738.1	Scaffold186	361658	AA	GG	1946924810
SNP_P4_116259_370709	NW_004515738.1	Scaffold186	370709	AA	TT	1946924812
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SNP_P4_116262_370725	NW_004515738.1	Scaffold186	370725	AA	GG	1946924818
SNP_P4_116263_389522	NW_004515738.1	Scaffold186	389522	TT	CC	1946924820
SNP_P4_116264_439463	NW_004515738.1	Scaffold186	439463	AA	CC	1946924822
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SNP_P4_116266_460229	NW_004515738.1	Scaffold186	460229	AA	CC	1946924826
SNP_P4_116267_461780	NW_004515738.1	Scaffold186	461780	TT	AA	1946924828
SNP_P4_116268_461781	NW_004515738.1	Scaffold186	461781	TT	CC	1946924830
SNP_P4_116269_464429	NW_004515738.1	Scaffold186	464429	GG	TT	1946924832
SNP_P4_116270_464454	NW_004515738.1	Scaffold186	464454	CC	AA	1946924834
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_116274_10844	NW_004515740.1	Scaffold193	10844	CC	TT	1946924840
SNP_P4_116275_61942	NW_004515740.1	Scaffold193	61942	GG	AA	1946924842
SNP_P4_116276_63823	NW_004515740.1	Scaffold193	63823	GG	AA	1946924844
SNP_P4_116277_64856	NW_004515740.1	Scaffold193	64856	AA	GG	1946924846
SNP_P4_116278_65818	NW_004515740.1	Scaffold193	65818	GG	TT	1946924848
SNP_P4_116279_79268	NW_004515740.1	Scaffold193	79268	TT	GG	1946924850
SNP_P4_116280_79273	NW_004515740.1	Scaffold193	79273	TT	CC	1946924852
SNP_P4_116281_79469	NW_004515740.1	Scaffold193	79469	AA	CC	1946924854
SNP_P4_116282_79478	NW_004515740.1	Scaffold193	79478	TT	CC	1946924856
SNP_P4_116283_79545	NW_004515740.1	Scaffold193	79545	AA	GG	1946924858
SNP_P4_116285_79661	NW_004515740.1	Scaffold193	79661	TT	AA	1946924860
SNP_P4_116287_79774	NW_004515740.1	Scaffold193	79774	TT	CC	1946924862
SNP_P4_116288_79830	NW_004515740.1	Scaffold193	79830	GG	AA	1946924864
SNP_P4_116289_80018	NW_004515740.1	Scaffold193	80018	AA	CC	1946924866
SNP_P4_116290_86146	NW_004515740.1	Scaffold193	86146	AA	TT	1946924868
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SNP_P4_116292_115822	NW_004515740.1	Scaffold193	115822	TT	CC	1946924872
SNP_P4_116293_125716	NW_004515740.1	Scaffold193	125716	TT	CC	1946924874
SNP_P4_116294_130324	NW_004515740.1	Scaffold193	130324	TT	CC	1946924876
SNP_P4_116295_190106	NW_004515740.1	Scaffold193	190106	CC	TT	1946924879
SNP_P4_116296_199790	NW_004515740.1	Scaffold193	199790	TT	AA	1946924881
SNP_P4_116297_199791	NW_004515740.1	Scaffold193	199791	TT	AA	1946924883
SNP_P4_116298_201639	NW_004515740.1	Scaffold193	201639	CC	AA	1946924885
SNP_P4_116299_201696	NW_004515740.1	Scaffold193	201696	TT	GG	1946924887
SNP_P4_116300_201711	NW_004515740.1	Scaffold193	201711	GG	AA	1946924889
SNP_P4_116301_201771	NW_004515740.1	Scaffold193	201771	GG	TT	1946924891
SNP_P4_116302_201823	NW_004515740.1	Scaffold193	201823	CC	TT	1946924893
SNP_P4_116304_201979	NW_004515740.1	Scaffold193	201979	TT	CC	1946924895
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SNP_P4_116307_208361	NW_004515740.1	Scaffold193	208361	GG	AA	1946924902
SNP_P4_116308_208382	NW_004515740.1	Scaffold193	208382	TT	CC	1946924904
SNP_P4_116309_208386	NW_004515740.1	Scaffold193	208386	TT	CC	1946924906
SNP_P4_116310_208457	NW_004515740.1	Scaffold193	208457	GG	TT	1946924908
SNP_P4_116311_208486	NW_004515740.1	Scaffold193	208486	AA	GG	1946924910
SNP_P4_116313_208727	NW_004515740.1	Scaffold193	208727	CC	GG	1946924912
SNP_P4_116314_208773	NW_004515740.1	Scaffold193	208773	GG	CC	1946924914
SNP_P4_116315_238539	NW_004515740.1	Scaffold193	238539	TT	GG	1946924916
SNP_P4_116316_252501	NW_004515740.1	Scaffold193	252501	TT	CC	1946924918
SNP_P4_116317_255505	NW_004515740.1	Scaffold193	255505	TT	CC	1946924920
SNP_P4_116318_255506	NW_004515740.1	Scaffold193	255506	CC	TT	1946924922

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_116321_268154	NW_004515740.1	Scaffold193	268154	AA	GG	1946924928
SNP_P4_116322_268169	NW_004515740.1	Scaffold193	268169	CC	TT	1946924930
SNP_P4_116323_277626	NW_004515740.1	Scaffold193	277626	GG	AA	1946924932
SNP_P4_116324_280649	NW_004515740.1	Scaffold193	280649	TT	CC	1946924934
SNP_P4_116325_280650	NW_004515740.1	Scaffold193	280650	GG	TT	1946924936
SNP_P4_116326_280669	NW_004515740.1	Scaffold193	280669	GG	TT	1946924939
SNP_P4_116327_280671	NW_004515740.1	Scaffold193	280671	TT	CC	1946924941
SNP_P4_116328_289674	NW_004515740.1	Scaffold193	289674	TT	AA	1946924943
SNP_P4_116329_295646	NW_004515740.1	Scaffold193	295646	AA	GG	1946924945
SNP_P4_116330_295650	NW_004515740.1	Scaffold193	295650	TT	CC	1946924947
SNP_P4_116332_295685	NW_004515740.1	Scaffold193	295685	GG	AA	1946924949
SNP_P4_116333_295691	NW_004515740.1	Scaffold193	295691	CC	TT	1946924951
SNP_P4_116334_295711	NW_004515740.1	Scaffold193	295711	GG	AA	1946924953
SNP_P4_116335_295754	NW_004515740.1	Scaffold193	295754	AA	TT	1946924956
SNP_P4_116336_295760	NW_004515740.1	Scaffold193	295760	TT	CC	1946924958
SNP_P4_116337_295778	NW_004515740.1	Scaffold193	295778	GG	TT	1946924960
SNP_P4_116338_295781	NW_004515740.1	Scaffold193	295781	GG	AA	1946924962
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SNP_P4_116342_295859	NW_004515740.1	Scaffold193	295859	CC	TT	1946924970
SNP_P4_116343_295865	NW_004515740.1	Scaffold193	295865	GG	TT	1946924972
SNP_P4_116344_296010	NW_004515740.1	Scaffold193	296010	GG	AA	1946924974
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SNP_P4_116352_310279	NW_004515740.1	Scaffold193	310279	AA	CC	1946924990
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SNP_P4_116356_310478	NW_004515740.1	Scaffold193	310478	CC	AA	1946924998
SNP_P4_116357_310514	NW_004515740.1	Scaffold193	310514	TT	AA	1946925000
SNP_P4_116358_311244	NW_004515740.1	Scaffold193	311244	AA	GG	1946925002
SNP_P4_116359_316225	NW_004515740.1	Scaffold193	316225	TT	GG	1946925004
SNP_P4_116360_316668	NW_004515740.1	Scaffold193	316668	CC	TT	1946925006
SNP_P4_116361_317082	NW_004515740.1	Scaffold193	317082	CC	TT	1946925008

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_116363_318918	NW_004515740.1	Scaffold193	318918	GG	AA	1946925012
SNP_P4_116364_321508	NW_004515740.1	Scaffold193	321508	CC	TT	1946925014
SNP_P4_116365_329499	NW_004515740.1	Scaffold193	329499	GG	AA	1946925016
SNP_P4_116367_329751	NW_004515740.1	Scaffold193	329751	AA	GG	1946925018
SNP_P4_116368_329875	NW_004515740.1	Scaffold193	329875	GG	TT	1946925020
SNP_P4_116369_329916	NW_004515740.1	Scaffold193	329916	GG	CC	1946925022
SNP_P4_116370_353202	NW_004515740.1	Scaffold193	353202	AA	GG	1946925024
SNP_P4_116371_354687	NW_004515740.1	Scaffold193	354687	AA	CC	1946925026
SNP_P4_116372_354688	NW_004515740.1	Scaffold193	354688	GG	AA	1946925028
SNP_P4_116374_393999	NW_004515740.1	Scaffold193	393999	TT	CC	1946925030
SNP_P4_116375_394253	NW_004515740.1	Scaffold193	394253	GG	AA	1946925032
SNP_P4_116376_394291	NW_004515740.1	Scaffold193	394291	AA	CC	1946925034
SNP_P4_116377_394302	NW_004515740.1	Scaffold193	394302	GG	AA	1946925036
SNP_P4_116379_394540	NW_004515740.1	Scaffold193	394540	AA	CC	1946925038
SNP_P4_116380_394557	NW_004515740.1	Scaffold193	394557	AA	CC	1946925040
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SNP_P4_116397_435765	NW_004515740.1	Scaffold193	435765	TT	CC	1946925076
SNP_P4_116398_436132	NW_004515740.1	Scaffold193	436132	AA	GG	1946925078
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SNP_P4_116400_462785	NW_004515740.1	Scaffold193	462785	CC	TT	1946925082
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SNP_P4_116403_464827	NW_004515740.1	Scaffold193	464827	GG	AA	1946925087
SNP_P4_116404_9376	NW_004515741.1	Scaffold194	9376	AA	GG	1946925089
SNP_P4_116405_1481	NW_004515743.1	Scaffold196	1481	GG	AA	1946925091
SNP_P4_116406_1653	NW_004515743.1	Scaffold196	1653	AA	CC	1946925093

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_116408_15393	NW_004515743.1	Scaffold196	15393	GG	TT	1946925097
SNP_P4_116409_19212	NW_004515743.1	Scaffold196	19212	GG	AA	1946925099
SNP_P4_116410_8032	NW_004515744.1	Scaffold198	8032	TT	CC	1946925101
SNP_P4_116411_49943	NW_004515744.1	Scaffold198	49943	GG	AA	1946925103
SNP_P4_116412_50020	NW_004515744.1	Scaffold198	50020	GG	AA	1946925105
SNP_P4_116413_51038	NW_004515744.1	Scaffold198	51038	CC	TT	1946925107
SNP_P4_116414_51222	NW_004515744.1	Scaffold198	51222	GG	AA	1946925109
SNP_P4_116415_51445	NW_004515744.1	Scaffold198	51445	AA	GG	1946925111
SNP_P4_116416_51565	NW_004515744.1	Scaffold198	51565	TT	CC	1946925112
SNP_P4_116417_51580	NW_004515744.1	Scaffold198	51580	AA	GG	1946925114
SNP_P4_116418_54432	NW_004515744.1	Scaffold198	54432	GG	AA	1946925116
SNP_P4_116419_54436	NW_004515744.1	Scaffold198	54436	TT	CC	1946925118
SNP_P4_116420_54441	NW_004515744.1	Scaffold198	54441	AA	TT	1946925120
SNP_P4_116421_54480	NW_004515744.1	Scaffold198	54480	TT	AA	1946925122
SNP_P4_116422_54484	NW_004515744.1	Scaffold198	54484	AA	GG	1946925124
SNP_P4_116423_54777	NW_004515744.1	Scaffold198	54777	TT	CC	1946925126
SNP_P4_116424_56356	NW_004515744.1	Scaffold198	56356	AA	GG	1946925128
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SNP_P4_116430_56586	NW_004515744.1	Scaffold198	56586	GG	AA	1946925139
SNP_P4_116432_60905	NW_004515744.1	Scaffold198	60905	TT	AA	1946925141
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SNP_P4_116442_159932	NW_004515744.1	Scaffold198	159932	AA	GG	1946925154
SNP_P4_116443_159938	NW_004515744.1	Scaffold198	159938	AA	GG	1946925156
SNP_P4_116444_162503	NW_004515744.1	Scaffold198	162503	AA	GG	1946925158
SNP_P4_116445_162521	NW_004515744.1	Scaffold198	162521	AA	CC	1946925160
SNP_P4_116446_162547	NW_004515744.1	Scaffold198	162547	AA	GG	1946925162
SNP_P4_116447_188043	NW_004515744.1	Scaffold198	188043	TT	CC	1946925164
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SNP_P4_116449_188102	NW_004515744.1	Scaffold198	188102	GG	AA	1946925168
SNP_P4_116450_188108	NW_004515744.1	Scaffold198	188108	CC	TT	1946925170
SNP_P4_116451_188113	NW_004515744.1	Scaffold198	188113	TT	CC	1946925172
SNP_P4_116452_188122	NW_004515744.1	Scaffold198	188122	CC	TT	1946925173

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_116455_211114	NW_004515744.1	Scaffold198	211114	TT	AA	1946925179
SNP_P4_116456_251472	NW_004515744.1	Scaffold198	251472	TT	GG	1946925181
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SNP_P4_116458_251556	NW_004515744.1	Scaffold198	251556	CC	TT	1946925185
SNP_P4_116459_251569	NW_004515744.1	Scaffold198	251569	AA	GG	1946925187
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SNP_P4_116463_267592	NW_004515744.1	Scaffold198	267592	AA	TT	1946925193
SNP_P4_116465_267640	NW_004515744.1	Scaffold198	267640	TT	AA	1946925195
SNP_P4_116466_267647	NW_004515744.1	Scaffold198	267647	CC	TT	1946925197
SNP_P4_116467_286962	NW_004515744.1	Scaffold198	286962	AA	GG	1946925199
SNP_P4_116468_287031	NW_004515744.1	Scaffold198	287031	TT	GG	1946925201
SNP_P4_116469_287323	NW_004515744.1	Scaffold198	287323	AA	GG	1946925203
SNP_P4_116470_287363	NW_004515744.1	Scaffold198	287363	AA	CC	1946925205
SNP_P4_116471_287366	NW_004515744.1	Scaffold198	287366	TT	CC	1946925206
SNP_P4_116472_318351	NW_004515744.1	Scaffold198	318351	TT	CC	1946925208
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SNP_P4_116475_330637	NW_004515744.1	Scaffold198	330637	AA	CC	1946925214
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SNP_P4_116479_330772	NW_004515744.1	Scaffold198	330772	GG	TT	1946925221
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SNP_P4_116482_335588	NW_004515744.1	Scaffold198	335588	AA	GG	1946925227
SNP_P4_116483_335815	NW_004515744.1	Scaffold198	335815	GG	AA	1946925229
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SNP_P4_116495_420695	NW_004515744.1	Scaffold198	420695	CC	AA	1946925248
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SNP_P4_116497_420730	NW_004515744.1	Scaffold198	420730	GG	AA	1946925252
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_116503_421134	NW_004515744.1	Scaffold198	421134	CC	TT	1946925263
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SNP_P4_116512_450842	NW_004515744.1	Scaffold198	450842	AA	GG	1946925279
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SNP_P4_116515_500998	NW_004515744.1	Scaffold198	500998	GG	AA	1946925284
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SNP_P4_116526_501810	NW_004515744.1	Scaffold198	501810	AA	GG	1946925303
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SNP_P4_116541_594560	NW_004515744.1	Scaffold198	594560	AA	GG	1946925328
SNP_P4_116542_594569	NW_004515744.1	Scaffold198	594569	GG	AA	1946925330
SNP_P4_116543_594610	NW_004515744.1	Scaffold198	594610	TT	AA	1946925332
SNP_P4_116544_596291	NW_004515744.1	Scaffold198	596291	CC	AA	1946925334

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_116548_611372	NW_004515744.1	Scaffold198	611372	TT	CC	1946925342
SNP_P4_116549_631116	NW_004515744.1	Scaffold198	631116	CC	AA	1946925344
SNP_P4_116550_631654	NW_004515744.1	Scaffold198	631654	CC	GG	1946925346
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SNP_P4_116553_632755	NW_004515744.1	Scaffold198	632755	GG	AA	1946925349
SNP_P4_116554_632827	NW_004515744.1	Scaffold198	632827	AA	TT	1946925351
SNP_P4_116555_632846	NW_004515744.1	Scaffold198	632846	GG	AA	1946925353
SNP_P4_116557_632944	NW_004515744.1	Scaffold198	632944	GG	CC	1946925355
SNP_P4_116558_633047	NW_004515744.1	Scaffold198	633047	CC	TT	1946925357
SNP_P4_116559_633048	NW_004515744.1	Scaffold198	633048	TT	GG	1946925359
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SNP_P4_116568_637317	NW_004515744.1	Scaffold198	637317	TT	CC	1946925377
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SNP_P4_116582_31886	NW_004515746.1	Scaffold200	31886	TT	CC	1946925404
SNP_P4_116583_32211	NW_004515746.1	Scaffold200	32211	CC	AA	1946925406
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SNP_P4_116585_39497	NW_004515746.1	Scaffold200	39497	AA	TT	1946925410
SNP_P4_116586_43823	NW_004515746.1	Scaffold200	43823	CC	AA	1946925412
SNP_P4_116587_43929	NW_004515746.1	Scaffold200	43929	TT	GG	1946925414
SNP_P4_116588_49485	NW_004515746.1	Scaffold200	49485	AA	TT	1946925416
SNP_P4_116589_51103	NW_004515746.1	Scaffold200	51103	CC	TT	1946925418

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_116593_59918	NW_004515746.1	Scaffold200	59918	GG	CC	1946925426
SNP_P4_116595_69351	NW_004515746.1	Scaffold200	69351	GG	AA	1946925428
SNP_P4_116596_69744	NW_004515746.1	Scaffold200	69744	TT	CC	1946925430
SNP_P4_116597_77152	NW_004515746.1	Scaffold200	77152	GG	AA	1946925432
SNP_P4_116598_82601	NW_004515746.1	Scaffold200	82601	AA	GG	1946925434
SNP_P4_116599_87762	NW_004515746.1	Scaffold200	87762	GG	AA	1946925436
SNP_P4_116600_87772	NW_004515746.1	Scaffold200	87772	GG	TT	1946925438
SNP_P4_116601_100221	NW_004515746.1	Scaffold200	100221	CC	AA	1946925440
SNP_P4_116602_109117	NW_004515746.1	Scaffold200	109117	TT	CC	1946925442
SNP_P4_116603_109486	NW_004515746.1	Scaffold200	109486	AA	GG	1946925445
SNP_P4_116604_109491	NW_004515746.1	Scaffold200	109491	AA	TT	1946925447
SNP_P4_116605_109561	NW_004515746.1	Scaffold200	109561	AA	GG	1946925449
SNP_P4_116606_109834	NW_004515746.1	Scaffold200	109834	GG	TT	1946925451
SNP_P4_116607_112872	NW_004515746.1	Scaffold200	112872	GG	AA	1946925453
SNP_P4_116608_112878	NW_004515746.1	Scaffold200	112878	TT	CC	1946925455
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SNP_P4_116614_10420	NW_004515747.1	Scaffold202	10420	TT	CC	1946925467
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SNP_P4_116616_10475	NW_004515747.1	Scaffold202	10475	AA	TT	1946925471
SNP_P4_116617_10480	NW_004515747.1	Scaffold202	10480	AA	CC	1946925473
SNP_P4_116618_10481	NW_004515747.1	Scaffold202	10481	GG	AA	1946925475
SNP_P4_116619_10490	NW_004515747.1	Scaffold202	10490	AA	CC	1946925477
SNP_P4_116620_10515	NW_004515747.1	Scaffold202	10515	TT	AA	1946925479
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SNP_P4_116625_16914	NW_004515747.1	Scaffold202	16914	GG	TT	1946925490
SNP_P4_116626_16920	NW_004515747.1	Scaffold202	16920	AA	GG	1946925492
SNP_P4_116627_17161	NW_004515747.1	Scaffold202	17161	CC	AA	1946925494
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SNP_P4_116629_17421	NW_004515747.1	Scaffold202	17421	GG	TT	1946925498
SNP_P4_116630_17508	NW_004515747.1	Scaffold202	17508	CC	AA	1946925500
SNP_P4_116631_17518	NW_004515747.1	Scaffold202	17518	TT	GG	1946925502
SNP_P4_116632_17630	NW_004515747.1	Scaffold202	17630	GG	AA	1946925504

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_116635_17793	NW_004515747.1	Scaffold202	17793	TT	CC	1946925510
SNP_P4_116637_19877	NW_004515747.1	Scaffold202	19877	TT	GG	1946925512
SNP_P4_116638_19886	NW_004515747.1	Scaffold202	19886	AA	TT	1946925514
SNP_P4_116639_19887	NW_004515747.1	Scaffold202	19887	GG	AA	1946925516
SNP_P4_116640_19888	NW_004515747.1	Scaffold202	19888	TT	CC	1946925518
SNP_P4_116641_19891	NW_004515747.1	Scaffold202	19891	GG	AA	1946925520
SNP_P4_116642_19901	NW_004515747.1	Scaffold202	19901	TT	CC	1946925522
SNP_P4_116643_19922	NW_004515747.1	Scaffold202	19922	GG	AA	1946925524
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SNP_P4_116645_19940	NW_004515747.1	Scaffold202	19940	TT	CC	1946925528
SNP_P4_116647_19985	NW_004515747.1	Scaffold202	19985	GG	AA	1946925530
SNP_P4_116648_19994	NW_004515747.1	Scaffold202	19994	TT	AA	1946925532
SNP_P4_116649_20059	NW_004515747.1	Scaffold202	20059	AA	GG	1946925534
SNP_P4_116650_20097	NW_004515747.1	Scaffold202	20097	AA	CC	1946925536
SNP_P4_116651_20219	NW_004515747.1	Scaffold202	20219	GG	TT	1946925538
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SNP_P4_116653_20303	NW_004515747.1	Scaffold202	20303	GG	TT	1946925542
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SNP_P4_116667_21020	NW_004515747.1	Scaffold202	21020	CC	TT	1946925568
SNP_P4_116668_21028	NW_004515747.1	Scaffold202	21028	AA	GG	1946925570
SNP_P4_116669_21182	NW_004515747.1	Scaffold202	21182	GG	TT	1946925572
SNP_P4_116670_22208	NW_004515747.1	Scaffold202	22208	AA	CC	1946925574
SNP_P4_116671_22408	NW_004515747.1	Scaffold202	22408	AA	TT	1946925576
SNP_P4_116673_22663	NW_004515747.1	Scaffold202	22663	CC	TT	1946925578
SNP_P4_116674_22729	NW_004515747.1	Scaffold202	22729	CC	AA	1946925580
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SNP_P4_116677_22899	NW_004515747.1	Scaffold202	22899	AA	TT	1946925584
SNP_P4_116678_22926	NW_004515747.1	Scaffold202	22926	GG	AA	1946925586
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_116683_23596	NW_004515747.1	Scaffold202	23596	TT	CC	1946925596
SNP_P4_116684_23612	NW_004515747.1	Scaffold202	23612	TT	CC	1946925598
SNP_P4_116685_23650	NW_004515747.1	Scaffold202	23650	TT	CC	1946925600
SNP_P4_116686_23790	NW_004515747.1	Scaffold202	23790	CC	AA	1946925602
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SNP_P4_116688_23920	NW_004515747.1	Scaffold202	23920	AA	CC	1946925606
SNP_P4_116689_23930	NW_004515747.1	Scaffold202	23930	CC	GG	1946925608
SNP_P4_116690_24044	NW_004515747.1	Scaffold202	24044	TT	CC	1946925610
SNP_P4_116691_24296	NW_004515747.1	Scaffold202	24296	CC	TT	1946925612
SNP_P4_116692_24363	NW_004515747.1	Scaffold202	24363	TT	GG	1946925614
SNP_P4_116693_24406	NW_004515747.1	Scaffold202	24406	AA	GG	1946925616
SNP_P4_116694_24595	NW_004515747.1	Scaffold202	24595	AA	GG	1946925618
SNP_P4_116695_24642	NW_004515747.1	Scaffold202	24642	AA	GG	1946925620
SNP_P4_116696_24663	NW_004515747.1	Scaffold202	24663	TT	CC	1946925622
SNP_P4_116697_24664	NW_004515747.1	Scaffold202	24664	AA	GG	1946925624
SNP_P4_116698_24700	NW_004515747.1	Scaffold202	24700	AA	GG	1946925626
SNP_P4_116699_24939	NW_004515747.1	Scaffold202	24939	TT	GG	1946925628
SNP_P4_116700_24942	NW_004515747.1	Scaffold202	24942	TT	AA	1946925630
SNP_P4_116701_24971	NW_004515747.1	Scaffold202	24971	CC	TT	1946925632
SNP_P4_116702_24987	NW_004515747.1	Scaffold202	24987	AA	GG	1946925634
SNP_P4_116703_27622	NW_004515747.1	Scaffold202	27622	CC	TT	1946925636
SNP_P4_116704_27629	NW_004515747.1	Scaffold202	27629	GG	AA	1946925638
SNP_P4_116705_27674	NW_004515747.1	Scaffold202	27674	GG	AA	1946925640
SNP_P4_116706_27675	NW_004515747.1	Scaffold202	27675	CC	TT	1946925642
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SNP_P4_116708_27966	NW_004515747.1	Scaffold202	27966	AA	GG	1946925646
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SNP_P4_116711_29976	NW_004515747.1	Scaffold202	29976	TT	CC	1946925652
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SNP_P4_116713_35665	NW_004515747.1	Scaffold202	35665	CC	GG	1946925656
SNP_P4_116714_35778	NW_004515747.1	Scaffold202	35778	CC	TT	1946925658
SNP_P4_116715_35834	NW_004515747.1	Scaffold202	35834	AA	GG	1946925660
SNP_P4_116716_35907	NW_004515747.1	Scaffold202	35907	AA	GG	1946925662
SNP_P4_116717_35941	NW_004515747.1	Scaffold202	35941	CC	TT	1946925664
SNP_P4_116718_35976	NW_004515747.1	Scaffold202	35976	AA	CC	1946925666
SNP_P4_116719_36173	NW_004515747.1	Scaffold202	36173	GG	AA	1946925668
SNP_P4_116720_36332	NW_004515747.1	Scaffold202	36332	CC	TT	1946925670
SNP_P4_116721_36463	NW_004515747.1	Scaffold202	36463	CC	TT	1946925672

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_116722_36503	NW_004515747.1	Scaffold202	36503	GG	AA	1946925674
SNP_P4_116723_36619	NW_004515747.1	Scaffold202	36619	GG	TT	1946925676
SNP_P4_116725_36855	NW_004515747.1	Scaffold202	36855	TT	GG	1946925678
SNP_P4_116726_36941	NW_004515747.1	Scaffold202	36941	AA	TT	1946925680
SNP_P4_116727_37089	NW_004515747.1	Scaffold202	37089	CC	TT	1946925682
SNP_P4_116728_37140	NW_004515747.1	Scaffold202	37140	TT	GG	1946925684
SNP_P4_116729_37244	NW_004515747.1	Scaffold202	37244	TT	CC	1946925686
SNP_P4_116730_37375	NW_004515747.1	Scaffold202	37375	AA	GG	1946925688
SNP_P4_116731_37400	NW_004515747.1	Scaffold202	37400	GG	CC	1946925690
SNP_P4_116732_37585	NW_004515747.1	Scaffold202	37585	TT	AA	1946925692
SNP_P4_116733_37825	NW_004515747.1	Scaffold202	37825	AA	TT	1946925694
SNP_P4_116736_37989	NW_004515747.1	Scaffold202	37989	GG	AA	1946925696
SNP_P4_116737_37994	NW_004515747.1	Scaffold202	37994	TT	CC	1946925698
SNP_P4_116738_38080	NW_004515747.1	Scaffold202	38080	TT	GG	1946925700
SNP_P4_116739_38083	NW_004515747.1	Scaffold202	38083	AA	GG	1946925702
SNP_P4_116740_38090	NW_004515747.1	Scaffold202	38090	GG	AA	1946925704
SNP_P4_116741_38236	NW_004515747.1	Scaffold202	38236	GG	AA	1946925706
SNP_P4_116744_38539	NW_004515747.1	Scaffold202	38539	TT	GG	1946925708
SNP_P4_116745_38675	NW_004515747.1	Scaffold202	38675	AA	TT	1946925710
SNP_P4_116746_38695	NW_004515747.1	Scaffold202	38695	GG	TT	1946925712
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SNP_P4_116748_38775	NW_004515747.1	Scaffold202	38775	CC	TT	1946925716
SNP_P4_116749_38796	NW_004515747.1	Scaffold202	38796	GG	AA	1946925718
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SNP_P4_116751_38848	NW_004515747.1	Scaffold202	38848	TT	CC	1946925722
SNP_P4_116752_38895	NW_004515747.1	Scaffold202	38895	AA	GG	1946925724
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SNP_P4_116754_39013	NW_004515747.1	Scaffold202	39013	GG	AA	1946925728
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SNP_P4_116764_39684	NW_004515747.1	Scaffold202	39684	CC	TT	1946925742
SNP_P4_116765_40848	NW_004515747.1	Scaffold202	40848	AA	CC	1946925744
SNP_P4_116766_44773	NW_004515747.1	Scaffold202	44773	CC	TT	1946925746
SNP_P4_116767_45789	NW_004515747.1	Scaffold202	45789	AA	GG	1946925748
SNP_P4_116768_52529	NW_004515747.1	Scaffold202	52529	GG	TT	1946925750
SNP_P4_116769_52542	NW_004515747.1	Scaffold202	52542	GG	CC	1946925752
SNP_P4_116770_52858	NW_004515747.1	Scaffold202	52858	AA	TT	1946925754
SNP_P4_116771_53336	NW_004515747.1	Scaffold202	53336	CC	TT	1946925756

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_116773_53494	NW_004515747.1	Scaffold202	53494	AA	GG	1946925759
SNP_P4_116774_53503	NW_004515747.1	Scaffold202	53503	TT	CC	1946925761
SNP_P4_116775_53512	NW_004515747.1	Scaffold202	53512	CC	AA	1946925763
SNP_P4_116776_53522	NW_004515747.1	Scaffold202	53522	GG	AA	1946925765
SNP_P4_116777_53550	NW_004515747.1	Scaffold202	53550	AA	GG	1946925767
SNP_P4_116778_53634	NW_004515747.1	Scaffold202	53634	GG	AA	1946925769
SNP_P4_116779_60969	NW_004515747.1	Scaffold202	60969	CC	TT	1946925771
SNP_P4_116781_62088	NW_004515747.1	Scaffold202	62088	GG	TT	1946925773
SNP_P4_116782_93016	NW_004515747.1	Scaffold202	93016	GG	AA	1946925775
SNP_P4_116783_93081	NW_004515747.1	Scaffold202	93081	GG	TT	1946925777
SNP_P4_116784_93108	NW_004515747.1	Scaffold202	93108	GG	TT	1946925779
SNP_P4_116785_93142	NW_004515747.1	Scaffold202	93142	AA	TT	1946925781
SNP_P4_116786_93654	NW_004515747.1	Scaffold202	93654	GG	AA	1946925783
SNP_P4_116787_93702	NW_004515747.1	Scaffold202	93702	AA	GG	1946925786
SNP_P4_116789_93898	NW_004515747.1	Scaffold202	93898	CC	GG	1946925787
SNP_P4_116790_94027	NW_004515747.1	Scaffold202	94027	CC	TT	1946925790
SNP_P4_116791_94030	NW_004515747.1	Scaffold202	94030	CC	GG	1946925792
SNP_P4_116792_94097	NW_004515747.1	Scaffold202	94097	AA	GG	1946925794
SNP_P4_116793_94235	NW_004515747.1	Scaffold202	94235	CC	TT	1946925796
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SNP_P4_116796_94557	NW_004515747.1	Scaffold202	94557	CC	TT	1946925802
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SNP_P4_116803_95071	NW_004515747.1	Scaffold202	95071	AA	CC	1946925816
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SNP_P4_116805_95246	NW_004515747.1	Scaffold202	95246	AA	TT	1946925820
SNP_P4_116806_95276	NW_004515747.1	Scaffold202	95276	TT	CC	1946925822
SNP_P4_116807_95429	NW_004515747.1	Scaffold202	95429	AA	GG	1946925824
SNP_P4_116808_95438	NW_004515747.1	Scaffold202	95438	AA	GG	1946925826
SNP_P4_116809_95496	NW_004515747.1	Scaffold202	95496	AA	GG	1946925828
SNP_P4_116810_95533	NW_004515747.1	Scaffold202	95533	AA	GG	1946925830
SNP_P4_116811_95609	NW_004515747.1	Scaffold202	95609	TT	CC	1946925832
SNP_P4_116812_95619	NW_004515747.1	Scaffold202	95619	GG	AA	1946925834
SNP_P4_116813_95708	NW_004515747.1	Scaffold202	95708	GG	AA	1946925836
SNP_P4_116814_95792	NW_004515747.1	Scaffold202	95792	GG	AA	1946925838
SNP_P4_116815_95869	NW_004515747.1	Scaffold202	95869	TT	CC	1946925840

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_116817_95942	NW_004515747.1	Scaffold202	95942	TT	CC	1946925844
SNP_P4_116818_96043	NW_004515747.1	Scaffold202	96043	GG	AA	1946925845
SNP_P4_116819_96074	NW_004515747.1	Scaffold202	96074	AA	GG	1946925847
SNP_P4_116820_96097	NW_004515747.1	Scaffold202	96097	GG	AA	1946925849
SNP_P4_116821_96140	NW_004515747.1	Scaffold202	96140	TT	CC	1946925851
SNP_P4_116822_96281	NW_004515747.1	Scaffold202	96281	AA	GG	1946925853
SNP_P4_116823_96333	NW_004515747.1	Scaffold202	96333	AA	GG	1946925855
SNP_P4_116824_96363	NW_004515747.1	Scaffold202	96363	GG	TT	1946925857
SNP_P4_116825_96394	NW_004515747.1	Scaffold202	96394	AA	TT	1946925859
SNP_P4_116826_96397	NW_004515747.1	Scaffold202	96397	AA	GG	1946925860
SNP_P4_116827_96444	NW_004515747.1	Scaffold202	96444	AA	GG	1946925862
SNP_P4_116828_96456	NW_004515747.1	Scaffold202	96456	CC	TT	1946925864
SNP_P4_116829_96532	NW_004515747.1	Scaffold202	96532	TT	GG	1946925866
SNP_P4_116830_96580	NW_004515747.1	Scaffold202	96580	GG	TT	1946925868
SNP_P4_116831_96589	NW_004515747.1	Scaffold202	96589	TT	AA	1946925870
SNP_P4_116832_96614	NW_004515747.1	Scaffold202	96614	TT	CC	1946925872
SNP_P4_116833_96868	NW_004515747.1	Scaffold202	96868	CC	AA	1946925874
SNP_P4_116836_97636	NW_004515747.1	Scaffold202	97636	AA	GG	1946925876
SNP_P4_116837_97768	NW_004515747.1	Scaffold202	97768	CC	GG	1946925878
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SNP_P4_116840_98607	NW_004515747.1	Scaffold202	98607	GG	AA	1946925884
SNP_P4_116841_98848	NW_004515747.1	Scaffold202	98848	CC	AA	1946925886
SNP_P4_116842_99123	NW_004515747.1	Scaffold202	99123	TT	CC	1946925888
SNP_P4_116843_99208	NW_004515747.1	Scaffold202	99208	CC	TT	1946925890
SNP_P4_116844_99273	NW_004515747.1	Scaffold202	99273	GG	CC	1946925892
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SNP_P4_116846_99849	NW_004515747.1	Scaffold202	99849	AA	TT	1946925896
SNP_P4_116847_100132	NW_004515747.1	Scaffold202	100132	CC	TT	1946925898
SNP_P4_116848_100186	NW_004515747.1	Scaffold202	100186	TT	CC	1946925900
SNP_P4_116849_100216	NW_004515747.1	Scaffold202	100216	AA	TT	1946925902
SNP_P4_116850_100242	NW_004515747.1	Scaffold202	100242	AA	TT	1946925904
SNP_P4_116851_100359	NW_004515747.1	Scaffold202	100359	CC	AA	1946925906
SNP_P4_116852_101745	NW_004515747.1	Scaffold202	101745	AA	GG	1946925908
SNP_P4_116853_101758	NW_004515747.1	Scaffold202	101758	AA	GG	1946925910
SNP_P4_116854_101766	NW_004515747.1	Scaffold202	101766	GG	AA	1946925912
SNP_P4_116855_101772	NW_004515747.1	Scaffold202	101772	AA	GG	1946925914
SNP_P4_116857_103956	NW_004515747.1	Scaffold202	103956	GG	AA	1946925915
SNP_P4_116859_104037	NW_004515747.1	Scaffold202	104037	AA	TT	1946925917
SNP_P4_116860_104043	NW_004515747.1	Scaffold202	104043	TT	AA	1946925919
SNP_P4_116861_104044	NW_004515747.1	Scaffold202	104044	TT	AA	1946925921

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_116863_104082	NW_004515747.1	Scaffold202	104082	CC	TT	1946925925
SNP_P4_116864_104187	NW_004515747.1	Scaffold202	104187	AA	CC	1946925927
SNP_P4_116865_104221	NW_004515747.1	Scaffold202	104221	GG	CC	1946925929
SNP_P4_116867_104407	NW_004515747.1	Scaffold202	104407	GG	AA	1946925931
SNP_P4_116868_104669	NW_004515747.1	Scaffold202	104669	TT	GG	1946925933
SNP_P4_116869_104714	NW_004515747.1	Scaffold202	104714	AA	TT	1946925935
SNP_P4_116871_16267	NW_004515748.1	Scaffold204	16267	TT	CC	1946925937
SNP_P4_116872_23583	NW_004515748.1	Scaffold204	23583	CC	TT	1946925939
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SNP_P4_116875_23859	NW_004515748.1	Scaffold204	23859	AA	CC	1946925945
SNP_P4_116876_23932	NW_004515748.1	Scaffold204	23932	TT	CC	1946925947
SNP_P4_116877_29358	NW_004515748.1	Scaffold204	29358	GG	AA	1946925949
SNP_P4_116878_52617	NW_004515748.1	Scaffold204	52617	GG	CC	1946925951
SNP_P4_116879_52648	NW_004515748.1	Scaffold204	52648	AA	GG	1946925953
SNP_P4_116881_40690	NW_004515749.1	Scaffold205	40690	AA	CC	1946925955
SNP_P4_116882_40693	NW_004515749.1	Scaffold205	40693	CC	GG	1946925957
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SNP_P4_116895_41704	NW_004515749.1	Scaffold205	41704	TT	AA	1946925982
SNP_P4_116896_41708	NW_004515749.1	Scaffold205	41708	TT	CC	1946925984
SNP_P4_116897_41758	NW_004515749.1	Scaffold205	41758	TT	CC	1946925986
SNP_P4_116898_41878	NW_004515749.1	Scaffold205	41878	TT	AA	1946925988
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SNP_P4_116900_41938	NW_004515749.1	Scaffold205	41938	GG	AA	1946925991
SNP_P4_116901_41992	NW_004515749.1	Scaffold205	41992	AA	GG	1946925993
SNP_P4_116902_41997	NW_004515749.1	Scaffold205	41997	TT	CC	1946925995
SNP_P4_116903_41999	NW_004515749.1	Scaffold205	41999	GG	AA	1946925997
SNP_P4_116904_42023	NW_004515749.1	Scaffold205	42023	CC	TT	1946925999
SNP_P4_116905_42048	NW_004515749.1	Scaffold205	42048	GG	AA	1946926001
SNP_P4_116906_42052	NW_004515749.1	Scaffold205	42052	TT	CC	1946926003
SNP_P4_116907_42104	NW_004515749.1	Scaffold205	42104	AA	TT	1946926005

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_116910_42259	NW_004515749.1	Scaffold205	42259	GG	AA	1946926011
SNP_P4_116911_42290	NW_004515749.1	Scaffold205	42290	AA	GG	1946926013
SNP_P4_116912_42299	NW_004515749.1	Scaffold205	42299	TT	CC	1946926015
SNP_P4_116913_42347	NW_004515749.1	Scaffold205	42347	TT	GG	1946926017
SNP_P4_116914_46496	NW_004515749.1	Scaffold205	46496	CC	TT	1946926019
SNP_P4_116915_46569	NW_004515749.1	Scaffold205	46569	AA	GG	1946926021
SNP_P4_116917_59415	NW_004515749.1	Scaffold205	59415	CC	TT	1946926023
SNP_P4_116918_60599	NW_004515749.1	Scaffold205	60599	CC	TT	1946926025
SNP_P4_116919_70839	NW_004515749.1	Scaffold205	70839	TT	AA	1946926027
SNP_P4_116920_70938	NW_004515749.1	Scaffold205	70938	GG	TT	1946926029
SNP_P4_116921_75507	NW_004515749.1	Scaffold205	75507	GG	TT	1946926031
SNP_P4_116922_75575	NW_004515749.1	Scaffold205	75575	AA	GG	1946926033
SNP_P4_116923_75592	NW_004515749.1	Scaffold205	75592	CC	TT	1946926035
SNP_P4_116925_76009	NW_004515749.1	Scaffold205	76009	TT	CC	1946926037
SNP_P4_116926_90469	NW_004515749.1	Scaffold205	90469	AA	TT	1946926039
SNP_P4_116927_90470	NW_004515749.1	Scaffold205	90470	TT	GG	1946926041
SNP_P4_116928_112657	NW_004515749.1	Scaffold205	112657	TT	CC	1946926043
SNP_P4_116929_113401	NW_004515749.1	Scaffold205	113401	AA	TT	1946926045
SNP_P4_116930_113402	NW_004515749.1	Scaffold205	113402	AA	GG	1946926047
SNP_P4_116931_114640	NW_004515749.1	Scaffold205	114640	AA	GG	1946926049
SNP_P4_116932_115058	NW_004515749.1	Scaffold205	115058	GG	AA	1946926051
SNP_P4_116933_116407	NW_004515749.1	Scaffold205	116407	TT	AA	1946926053
SNP_P4_116934_116449	NW_004515749.1	Scaffold205	116449	AA	GG	1946926055
SNP_P4_116936_149810	NW_004515749.1	Scaffold205	149810	GG	TT	1946926057
SNP_P4_116937_149888	NW_004515749.1	Scaffold205	149888	GG	AA	1946926059
SNP_P4_116938_149953	NW_004515749.1	Scaffold205	149953	AA	GG	1946926061
SNP_P4_116939_149964	NW_004515749.1	Scaffold205	149964	GG	AA	1946926062
SNP_P4_116940_150565	NW_004515749.1	Scaffold205	150565	TT	CC	1946926064
SNP_P4_116942_155737	NW_004515749.1	Scaffold205	155737	GG	AA	1946926066
SNP_P4_116943_195021	NW_004515749.1	Scaffold205	195021	TT	CC	1946926068
SNP_P4_116944_195042	NW_004515749.1	Scaffold205	195042	AA	CC	1946926071
SNP_P4_116945_195057	NW_004515749.1	Scaffold205	195057	AA	CC	1946926073
SNP_P4_116946_195279	NW_004515749.1	Scaffold205	195279	TT	CC	1946926075
SNP_P4_116947_198934	NW_004515749.1	Scaffold205	198934	CC	GG	1946926077
SNP_P4_116948_198972	NW_004515749.1	Scaffold205	198972	AA	GG	1946926079
SNP_P4_116949_199165	NW_004515749.1	Scaffold205	199165	AA	TT	1946926081
SNP_P4_116950_199205	NW_004515749.1	Scaffold205	199205	AA	GG	1946926083
SNP_P4_116951_199233	NW_004515749.1	Scaffold205	199233	CC	TT	1946926085
SNP_P4_116952_199237	NW_004515749.1	Scaffold205	199237	TT	CC	1946926087
SNP_P4_116953_199306	NW_004515749.1	Scaffold205	199306	AA	GG	1946926089

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_116954_199440	NW_004515749.1	Scaffold205	199440	TT	CC	1946926091
SNP_P4_116955_199501	NW_004515749.1	Scaffold205	199501	TT	AA	1946926093
SNP_P4_116957_201206	NW_004515749.1	Scaffold205	201206	TT	CC	1946926095
SNP_P4_116958_211892	NW_004515749.1	Scaffold205	211892	GG	AA	1946926097
SNP_P4_116959_214037	NW_004515749.1	Scaffold205	214037	GG	AA	1946926099
SNP_P4_116960_16661	NW_004515750.1	Scaffold206	16661	TT	CC	1946926101
SNP_P4_116961_16677	NW_004515750.1	Scaffold206	16677	AA	GG	1946926103
SNP_P4_116962_16717	NW_004515750.1	Scaffold206	16717	GG	TT	1946926105
SNP_P4_116964_62134	NW_004515750.1	Scaffold206	62134	AA	GG	1946926107
SNP_P4_116965_62141	NW_004515750.1	Scaffold206	62141	AA	GG	1946926109
SNP_P4_116966_62429	NW_004515750.1	Scaffold206	62429	TT	GG	1946926111
SNP_P4_116967_62916	NW_004515750.1	Scaffold206	62916	CC	TT	1946926113
SNP_P4_116968_67895	NW_004515750.1	Scaffold206	67895	GG	AA	1946926115
SNP_P4_116969_68193	NW_004515750.1	Scaffold206	68193	GG	AA	1946926117
SNP_P4_116970_68268	NW_004515750.1	Scaffold206	68268	CC	TT	1946926119
SNP_P4_116971_68291	NW_004515750.1	Scaffold206	68291	TT	GG	1946926121
SNP_P4_116972_68294	NW_004515750.1	Scaffold206	68294	CC	TT	1946926123
SNP_P4_116973_68481	NW_004515750.1	Scaffold206	68481	AA	TT	1946926125
SNP_P4_116974_73366	NW_004515750.1	Scaffold206	73366	TT	CC	1946926127
SNP_P4_116975_73372	NW_004515750.1	Scaffold206	73372	GG	TT	1946926129
SNP_P4_116976_77206	NW_004515750.1	Scaffold206	77206	CC	TT	1946926131
SNP_P4_116977_78144	NW_004515750.1	Scaffold206	78144	GG	AA	1946926133
SNP_P4_116978_85890	NW_004515750.1	Scaffold206	85890	CC	AA	1946926135
SNP_P4_116979_108194	NW_004515750.1	Scaffold206	108194	TT	GG	1946926137
SNP_P4_116980_108233	NW_004515750.1	Scaffold206	108233	AA	GG	1946926139
SNP_P4_116981_108461	NW_004515750.1	Scaffold206	108461	TT	CC	1946926141
SNP_P4_116982_108613	NW_004515750.1	Scaffold206	108613	GG	AA	1946926143
SNP_P4_116983_108627	NW_004515750.1	Scaffold206	108627	AA	TT	1946926145
SNP_P4_116984_108758	NW_004515750.1	Scaffold206	108758	AA	GG	1946926147
SNP_P4_116985_111145	NW_004515750.1	Scaffold206	111145	TT	CC	1946926149
SNP_P4_116986_113614	NW_004515750.1	Scaffold206	113614	CC	TT	1946926151
SNP_P4_116987_114007	NW_004515750.1	Scaffold206	114007	TT	AA	1946926153
SNP_P4_116988_114050	NW_004515750.1	Scaffold206	114050	AA	GG	1946926154
SNP_P4_116989_115271	NW_004515750.1	Scaffold206	115271	AA	GG	1946926157
SNP_P4_116990_115275	NW_004515750.1	Scaffold206	115275	TT	GG	1946926159
SNP_P4_116991_115461	NW_004515750.1	Scaffold206	115461	TT	AA	1946926161
SNP_P4_116992_115530	NW_004515750.1	Scaffold206	115530	TT	CC	1946926163
SNP_P4_116993_115539	NW_004515750.1	Scaffold206	115539	AA	GG	1946926165
SNP_P4_116994_115808	NW_004515750.1	Scaffold206	115808	AA	GG	1946926167
SNP_P4_116995_115810	NW_004515750.1	Scaffold206	115810	CC	AA	1946926169
SNP_P4_116996_115824	NW_004515750.1	Scaffold206	115824	TT	CC	1946926171
SNP_P4_116997_119897	NW_004515750.1	Scaffold206	119897	AA	GG	1946926173

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_116999_120157	NW_004515750.1	Scaffold206	120157	GG	AA	1946926177
SNP_P4_117000_120295	NW_004515750.1	Scaffold206	120295	TT	CC	1946926179
SNP_P4_117001_120303	NW_004515750.1	Scaffold206	120303	CC	TT	1946926181
SNP_P4_117002_120309	NW_004515750.1	Scaffold206	120309	CC	TT	1946926183
SNP_P4_117003_137803	NW_004515750.1	Scaffold206	137803	AA	GG	1946926185
SNP_P4_117004_138037	NW_004515750.1	Scaffold206	138037	AA	TT	1946926187
SNP_P4_117005_139575	NW_004515750.1	Scaffold206	139575	TT	AA	1946926189
SNP_P4_117006_139622	NW_004515750.1	Scaffold206	139622	CC	TT	1946926191
SNP_P4_117007_139732	NW_004515750.1	Scaffold206	139732	CC	AA	1946926193
SNP_P4_117008_139813	NW_004515750.1	Scaffold206	139813	TT	CC	1946926195
SNP_P4_117009_139834	NW_004515750.1	Scaffold206	139834	GG	AA	1946926197
SNP_P4_117010_139874	NW_004515750.1	Scaffold206	139874	TT	GG	1946926200
SNP_P4_117011_139924	NW_004515750.1	Scaffold206	139924	AA	GG	1946926202
SNP_P4_117012_139932	NW_004515750.1	Scaffold206	139932	TT	GG	1946926204
SNP_P4_117013_139990	NW_004515750.1	Scaffold206	139990	CC	TT	1946926206
SNP_P4_117014_140006	NW_004515750.1	Scaffold206	140006	TT	GG	1946926208
SNP_P4_117015_140017	NW_004515750.1	Scaffold206	140017	AA	GG	1946926210
SNP_P4_117016_140018	NW_004515750.1	Scaffold206	140018	GG	AA	1946926212
SNP_P4_117017_140043	NW_004515750.1	Scaffold206	140043	AA	TT	1946926214
SNP_P4_117018_140105	NW_004515750.1	Scaffold206	140105	TT	CC	1946926216
SNP_P4_117019_140159	NW_004515750.1	Scaffold206	140159	CC	TT	1946926218
SNP_P4_117020_140181	NW_004515750.1	Scaffold206	140181	TT	CC	1946926219
SNP_P4_117021_140210	NW_004515750.1	Scaffold206	140210	CC	TT	1946926221
SNP_P4_117022_140220	NW_004515750.1	Scaffold206	140220	GG	AA	1946926223
SNP_P4_117023_140237	NW_004515750.1	Scaffold206	140237	AA	GG	1946926225
SNP_P4_117024_140243	NW_004515750.1	Scaffold206	140243	TT	CC	1946926227
SNP_P4_117025_140254	NW_004515750.1	Scaffold206	140254	AA	GG	1946926229
SNP_P4_117026_140255	NW_004515750.1	Scaffold206	140255	AA	TT	1946926231
SNP_P4_117027_140291	NW_004515750.1	Scaffold206	140291	TT	CC	1946926233
SNP_P4_117028_140294	NW_004515750.1	Scaffold206	140294	CC	TT	1946926235
SNP_P4_117029_140306	NW_004515750.1	Scaffold206	140306	TT	CC	1946926238
SNP_P4_117030_140312	NW_004515750.1	Scaffold206	140312	CC	TT	1946926240
SNP_P4_117031_146958	NW_004515750.1	Scaffold206	146958	TT	AA	1946926242
SNP_P4_117032_147094	NW_004515750.1	Scaffold206	147094	TT	AA	1946926244
SNP_P4_117033_147200	NW_004515750.1	Scaffold206	147200	CC	TT	1946926246
SNP_P4_117034_159719	NW_004515750.1	Scaffold206	159719	AA	CC	1946926248
SNP_P4_117035_159734	NW_004515750.1	Scaffold206	159734	TT	AA	1946926250
SNP_P4_117036_159745	NW_004515750.1	Scaffold206	159745	GG	AA	1946926252
SNP_P4_117037_160126	NW_004515750.1	Scaffold206	160126	AA	GG	1946926254
SNP_P4_117039_162044	NW_004515750.1	Scaffold206	162044	CC	GG	1946926256
SNP_P4_117040_162237	NW_004515750.1	Scaffold206	162237	TT	CC	1946926258

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_117042_162243	NW_004515750.1	Scaffold206	162243	AA	GG	1946926262
SNP_P4_117043_164418	NW_004515750.1	Scaffold206	164418	AA	GG	1946926264
SNP_P4_117044_166896	NW_004515750.1	Scaffold206	166896	AA	TT	1946926266
SNP_P4_117046_175775	NW_004515750.1	Scaffold206	175775	CC	TT	1946926268
SNP_P4_117048_176357	NW_004515750.1	Scaffold206	176357	TT	CC	1946926270
SNP_P4_117049_176379	NW_004515750.1	Scaffold206	176379	CC	TT	1946926272
SNP_P4_117051_190582	NW_004515750.1	Scaffold206	190582	CC	TT	1946926274
SNP_P4_117052_190583	NW_004515750.1	Scaffold206	190583	GG	AA	1946926276
SNP_P4_117053_190624	NW_004515750.1	Scaffold206	190624	AA	CC	1946926278
SNP_P4_117055_199511	NW_004515750.1	Scaffold206	199511	TT	CC	1946926280
SNP_P4_117057_228629	NW_004515750.1	Scaffold206	228629	CC	GG	1946926282
SNP_P4_117058_228965	NW_004515750.1	Scaffold206	228965	GG	AA	1946926284
SNP_P4_117059_229011	NW_004515750.1	Scaffold206	229011	GG	CC	1946926286
SNP_P4_117060_233701	NW_004515750.1	Scaffold206	233701	CC	GG	1946926288
SNP_P4_117061_233720	NW_004515750.1	Scaffold206	233720	TT	CC	1946926290
SNP_P4_117062_234390	NW_004515750.1	Scaffold206	234390	GG	TT	1946926292
SNP_P4_117063_234450	NW_004515750.1	Scaffold206	234450	TT	CC	1946926294
SNP_P4_117064_234467	NW_004515750.1	Scaffold206	234467	CC	TT	1946926296
SNP_P4_117065_234785	NW_004515750.1	Scaffold206	234785	TT	CC	1946926298
SNP_P4_117066_234795	NW_004515750.1	Scaffold206	234795	TT	CC	1946926300
SNP_P4_117067_234822	NW_004515750.1	Scaffold206	234822	GG	AA	1946926302
SNP_P4_117068_234839	NW_004515750.1	Scaffold206	234839	AA	GG	1946926304
SNP_P4_117069_234859	NW_004515750.1	Scaffold206	234859	AA	CC	1946926306
SNP_P4_117070_234963	NW_004515750.1	Scaffold206	234963	CC	TT	1946926308
SNP_P4_117071_235021	NW_004515750.1	Scaffold206	235021	TT	CC	1946926310
SNP_P4_117072_238563	NW_004515750.1	Scaffold206	238563	CC	TT	1946926312
SNP_P4_117074_246716	NW_004515750.1	Scaffold206	246716	CC	TT	1946926314
SNP_P4_117075_246731	NW_004515750.1	Scaffold206	246731	AA	TT	1946926317
SNP_P4_117076_272191	NW_004515750.1	Scaffold206	272191	AA	GG	1946926319
SNP_P4_117077_589	NW_004515751.1	Scaffold207	589	GG	AA	1946926321
SNP_P4_117078_761	NW_004515751.1	Scaffold207	761	GG	AA	1946926323
SNP_P4_117079_2783	NW_004515751.1	Scaffold207	2783	GG	CC	1946926325
SNP_P4_117080_5994	NW_004515751.1	Scaffold207	5994	CC	AA	1946926327
SNP_P4_117081_5999	NW_004515751.1	Scaffold207	5999	CC	AA	1946926329
SNP_P4_117082_6000	NW_004515751.1	Scaffold207	6000	TT	CC	1946926331
SNP_P4_117083_6025	NW_004515751.1	Scaffold207	6025	GG	AA	1946926333
SNP_P4_117084_6042	NW_004515751.1	Scaffold207	6042	TT	CC	1946926335
SNP_P4_117085_6245	NW_004515751.1	Scaffold207	6245	GG	CC	1946926337
SNP_P4_117087_6961	NW_004515751.1	Scaffold207	6961	CC	AA	1946926339
SNP_P4_117088_7352	NW_004515751.1	Scaffold207	7352	AA	TT	1946926341
SNP_P4_117089_7369	NW_004515751.1	Scaffold207	7369	CC	TT	1946926343

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_117091_7544	NW_004515751.1	Scaffold207	7544	GG	AA	1946926347
SNP_P4_117092_7644	NW_004515751.1	Scaffold207	7644	CC	AA	1946926349
SNP_P4_117093_7760	NW_004515751.1	Scaffold207	7760	TT	CC	1946926351
SNP_P4_117094_7795	NW_004515751.1	Scaffold207	7795	AA	TT	1946926353
SNP_P4_117095_8056	NW_004515751.1	Scaffold207	8056	AA	GG	1946926355
SNP_P4_117096_8215	NW_004515751.1	Scaffold207	8215	AA	GG	1946926357
SNP_P4_117097_8217	NW_004515751.1	Scaffold207	8217	GG	TT	1946926359
SNP_P4_117098_9409	NW_004515751.1	Scaffold207	9409	GG	TT	1946926361
SNP_P4_117099_9466	NW_004515751.1	Scaffold207	9466	CC	TT	1946926363
SNP_P4_117100_9513	NW_004515751.1	Scaffold207	9513	AA	GG	1946926365
SNP_P4_117101_9580	NW_004515751.1	Scaffold207	9580	AA	CC	1946926367
SNP_P4_117103_9640	NW_004515751.1	Scaffold207	9640	AA	TT	1946926369
SNP_P4_117104_9831	NW_004515751.1	Scaffold207	9831	TT	AA	1946926371
SNP_P4_117105_9946	NW_004515751.1	Scaffold207	9946	TT	AA	1946926373
SNP_P4_117106_25138	NW_004515751.1	Scaffold207	25138	TT	GG	1946926375
SNP_P4_117107_25181	NW_004515751.1	Scaffold207	25181	CC	TT	1946926377
SNP_P4_117108_25183	NW_004515751.1	Scaffold207	25183	AA	CC	1946926379
SNP_P4_117109_476	NW_004515752.1	Scaffold208	476	GG	AA	1946926381
SNP_P4_117110_500	NW_004515752.1	Scaffold208	500	TT	CC	1946926383
SNP_P4_117111_10922	NW_004515752.1	Scaffold208	10922	TT	CC	1946926385
SNP_P4_117113_16123	NW_004515752.1	Scaffold208	16123	AA	GG	1946926387
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SNP_P4_117116_19388	NW_004515752.1	Scaffold208	19388	AA	GG	1946926393
SNP_P4_117117_19411	NW_004515752.1	Scaffold208	19411	GG	AA	1946926395
SNP_P4_117118_19823	NW_004515752.1	Scaffold208	19823	CC	TT	1946926397
SNP_P4_117119_21035	NW_004515752.1	Scaffold208	21035	AA	GG	1946926399
SNP_P4_117120_21100	NW_004515752.1	Scaffold208	21100	AA	CC	1946926401
SNP_P4_117121_21149	NW_004515752.1	Scaffold208	21149	GG	TT	1946926403
SNP_P4_117122_21153	NW_004515752.1	Scaffold208	21153	TT	GG	1946926405
SNP_P4_117123_21463	NW_004515752.1	Scaffold208	21463	AA	TT	1946926407
SNP_P4_117124_21505	NW_004515752.1	Scaffold208	21505	AA	CC	1946926409
SNP_P4_117125_21533	NW_004515752.1	Scaffold208	21533	AA	GG	1946926411
SNP_P4_117126_22008	NW_004515752.1	Scaffold208	22008	CC	GG	1946926413
SNP_P4_117127_22034	NW_004515752.1	Scaffold208	22034	CC	TT	1946926415
SNP_P4_117128_22035	NW_004515752.1	Scaffold208	22035	TT	AA	1946926417
SNP_P4_117129_22037	NW_004515752.1	Scaffold208	22037	TT	AA	1946926419
SNP_P4_117130_24747	NW_004515752.1	Scaffold208	24747	AA	GG	1946926421
SNP_P4_117131_36071	NW_004515752.1	Scaffold208	36071	TT	AA	1946926423
SNP_P4_117132_36440	NW_004515752.1	Scaffold208	36440	AA	GG	1946926425
SNP_P4_117134_39210	NW_004515752.1	Scaffold208	39210	TT	CC	1946926427

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_117136_49436	NW_004515752.1	Scaffold208	49436	AA	CC	1946926431
SNP_P4_117137_52018	NW_004515752.1	Scaffold208	52018	TT	GG	1946926433
SNP_P4_117138_72761	NW_004515752.1	Scaffold208	72761	TT	CC	1946926435
SNP_P4_117139_72780	NW_004515752.1	Scaffold208	72780	GG	AA	1946926437
SNP_P4_117140_72791	NW_004515752.1	Scaffold208	72791	TT	GG	1946926439
SNP_P4_117141_74971	NW_004515752.1	Scaffold208	74971	GG	AA	1946926441
SNP_P4_117142_119425	NW_004515752.1	Scaffold208	119425	TT	AA	1946926443
SNP_P4_117143_119629	NW_004515752.1	Scaffold208	119629	TT	CC	1946926445
SNP_P4_117144_119732	NW_004515752.1	Scaffold208	119732	CC	TT	1946926447
SNP_P4_117145_119742	NW_004515752.1	Scaffold208	119742	GG	TT	1946926449
SNP_P4_117147_119766	NW_004515752.1	Scaffold208	119766	CC	GG	1946926451
SNP_P4_117148_119794	NW_004515752.1	Scaffold208	119794	CC	AA	1946926453
SNP_P4_117149_126308	NW_004515752.1	Scaffold208	126308	AA	GG	1946926455
SNP_P4_117150_126320	NW_004515752.1	Scaffold208	126320	TT	CC	1946926457
SNP_P4_117151_126343	NW_004515752.1	Scaffold208	126343	GG	TT	1946926459
SNP_P4_117152_126384	NW_004515752.1	Scaffold208	126384	CC	TT	1946926462
SNP_P4_117153_126665	NW_004515752.1	Scaffold208	126665	AA	GG	1946926464
SNP_P4_117154_126699	NW_004515752.1	Scaffold208	126699	AA	TT	1946926466
SNP_P4_117155_126714	NW_004515752.1	Scaffold208	126714	GG	AA	1946926468
SNP_P4_117156_127452	NW_004515752.1	Scaffold208	127452	CC	TT	1946926470
SNP_P4_117157_127758	NW_004515752.1	Scaffold208	127758	CC	AA	1946926472
SNP_P4_117158_127783	NW_004515752.1	Scaffold208	127783	GG	AA	1946926474
SNP_P4_117159_127804	NW_004515752.1	Scaffold208	127804	AA	GG	1946926476
SNP_P4_117160_131610	NW_004515752.1	Scaffold208	131610	AA	TT	1946926478
SNP_P4_117161_156847	NW_004515752.1	Scaffold208	156847	CC	TT	1946926480
SNP_P4_117162_157208	NW_004515752.1	Scaffold208	157208	TT	CC	1946926482
SNP_P4_117164_162264	NW_004515752.1	Scaffold208	162264	TT	GG	1946926484
SNP_P4_117165_162326	NW_004515752.1	Scaffold208	162326	AA	CC	1946926486
SNP_P4_117166_173588	NW_004515752.1	Scaffold208	173588	TT	AA	1946926488
SNP_P4_117167_173927	NW_004515752.1	Scaffold208	173927	CC	TT	1946926490
SNP_P4_117168_173958	NW_004515752.1	Scaffold208	173958	GG	AA	1946926492
SNP_P4_117169_173970	NW_004515752.1	Scaffold208	173970	GG	AA	1946926494
SNP_P4_117170_174028	NW_004515752.1	Scaffold208	174028	CC	TT	1946926496
SNP_P4_117171_174107	NW_004515752.1	Scaffold208	174107	AA	CC	1946926498
SNP_P4_117173_174372	NW_004515752.1	Scaffold208	174372	TT	CC	1946926500
SNP_P4_117174_188307	NW_004515752.1	Scaffold208	188307	AA	CC	1946926502
SNP_P4_117175_188316	NW_004515752.1	Scaffold208	188316	TT	GG	1946926504
SNP_P4_117176_188337	NW_004515752.1	Scaffold208	188337	CC	AA	1946926506
SNP_P4_117177_188381	NW_004515752.1	Scaffold208	188381	GG	AA	1946926508
SNP_P4_117178_188536	NW_004515752.1	Scaffold208	188536	GG	AA	1946926510
SNP_P4_117179_200165	NW_004515752.1	Scaffold208	200165	TT	AA	1946926512

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_117181_254007	NW_004515752.1	Scaffold208	254007	GG	CC	1946926514
SNP_P4_117182_254029	NW_004515752.1	Scaffold208	254029	AA	TT	1946926516
SNP_P4_117183_254337	NW_004515752.1	Scaffold208	254337	GG	TT	1946926518
SNP_P4_117184_254499	NW_004515752.1	Scaffold208	254499	AA	GG	1946926520
SNP_P4_117185_266072	NW_004515752.1	Scaffold208	266072	TT	AA	1946926522
SNP_P4_117186_312422	NW_004515752.1	Scaffold208	312422	CC	AA	1946926524
SNP_P4_117187_320536	NW_004515752.1	Scaffold208	320536	AA	TT	1946926526
SNP_P4_117188_320822	NW_004515752.1	Scaffold208	320822	CC	TT	1946926528
SNP_P4_117190_417963	NW_004515752.1	Scaffold208	417963	TT	CC	1946926530
SNP_P4_117191_433956	NW_004515752.1	Scaffold208	433956	AA	CC	1946926532
SNP_P4_117192_434326	NW_004515752.1	Scaffold208	434326	TT	CC	1946926534
SNP_P4_117193_437175	NW_004515752.1	Scaffold208	437175	TT	AA	1946926536
SNP_P4_117194_457841	NW_004515752.1	Scaffold208	457841	TT	AA	1946926538
SNP_P4_117195_2295	NW_004515753.1	Scaffold209	2295	CC	TT	1946926540
SNP_P4_117196_2314	NW_004515753.1	Scaffold209	2314	GG	AA	1946926542
SNP_P4_117197_2595	NW_004515753.1	Scaffold209	2595	GG	CC	1946926544
SNP_P4_117198_2625	NW_004515753.1	Scaffold209	2625	GG	TT	1946926546
SNP_P4_117199_2674	NW_004515753.1	Scaffold209	2674	AA	CC	1946926548
SNP_P4_117200_3023	NW_004515753.1	Scaffold209	3023	TT	AA	1946926550
SNP_P4_117201_5720	NW_004515753.1	Scaffold209	5720	CC	AA	1946926552
SNP_P4_117202_5768	NW_004515753.1	Scaffold209	5768	AA	GG	1946926554
SNP_P4_117203_5770	NW_004515753.1	Scaffold209	5770	TT	AA	1946926556
SNP_P4_117204_5826	NW_004515753.1	Scaffold209	5826	AA	TT	1946926558
SNP_P4_117205_5958	NW_004515753.1	Scaffold209	5958	TT	CC	1946926560
SNP_P4_117206_6040	NW_004515753.1	Scaffold209	6040	AA	TT	1946926562
SNP_P4_117207_6138	NW_004515753.1	Scaffold209	6138	GG	CC	1946926564
SNP_P4_117208_6314	NW_004515753.1	Scaffold209	6314	CC	TT	1946926566
SNP_P4_117209_6340	NW_004515753.1	Scaffold209	6340	GG	TT	1946926568
SNP_P4_117210_6344	NW_004515753.1	Scaffold209	6344	GG	TT	1946926570
SNP_P4_117211_7670	NW_004515753.1	Scaffold209	7670	TT	GG	1946926572
SNP_P4_117212_7683	NW_004515753.1	Scaffold209	7683	CC	TT	1946926574
SNP_P4_117213_7695	NW_004515753.1	Scaffold209	7695	TT	AA	1946926576
SNP_P4_117214_7937	NW_004515753.1	Scaffold209	7937	GG	TT	1946926578
SNP_P4_117215_31636	NW_004515753.1	Scaffold209	31636	AA	CC	1946926580
SNP_P4_117216_37377	NW_004515753.1	Scaffold209	37377	TT	CC	1946926582
SNP_P4_117217_65740	NW_004515753.1	Scaffold209	65740	TT	CC	1946926584
SNP_P4_117218_66013	NW_004515753.1	Scaffold209	66013	TT	GG	1946926586
SNP_P4_117219_66052	NW_004515753.1	Scaffold209	66052	CC	AA	1946926588
SNP_P4_117220_79246	NW_004515753.1	Scaffold209	79246	AA	CC	1946926590
SNP_P4_117221_79273	NW_004515753.1	Scaffold209	79273	CC	GG	1946926592
SNP_P4_117222_79274	NW_004515753.1	Scaffold209	79274	TT	AA	1946926594
SNP_P4_117223_79555	NW_004515753.1	Scaffold209	79555	CC	TT	1946926596

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_117225_79596	NW_004515753.1	Scaffold209	79596	CC	AA	1946926600
SNP_P4_117226_83869	NW_004515753.1	Scaffold209	83869	AA	CC	1946926602
SNP_P4_117227_89922	NW_004515753.1	Scaffold209	89922	CC	TT	1946926604
SNP_P4_117228_89926	NW_004515753.1	Scaffold209	89926	TT	CC	1946926606
SNP_P4_117230_100695	NW_004515753.1	Scaffold209	100695	CC	TT	1946926608
SNP_P4_117231_102250	NW_004515753.1	Scaffold209	102250	TT	GG	1946926610
SNP_P4_117232_126594	NW_004515753.1	Scaffold209	126594	AA	GG	1946926612
SNP_P4_117233_137840	NW_004515753.1	Scaffold209	137840	GG	AA	1946926614
SNP_P4_117234_138282	NW_004515753.1	Scaffold209	138282	AA	GG	1946926616
SNP_P4_117235_139293	NW_004515753.1	Scaffold209	139293	AA	GG	1946926618
SNP_P4_117236_139322	NW_004515753.1	Scaffold209	139322	TT	CC	1946926620
SNP_P4_117237_145551	NW_004515753.1	Scaffold209	145551	GG	TT	1946926622
SNP_P4_117238_145588	NW_004515753.1	Scaffold209	145588	AA	CC	1946926624
SNP_P4_117239_154186	NW_004515753.1	Scaffold209	154186	CC	AA	1946926626
SNP_P4_117240_154214	NW_004515753.1	Scaffold209	154214	AA	GG	1946926628
SNP_P4_117241_163977	NW_004515753.1	Scaffold209	163977	AA	GG	1946926630
SNP_P4_117242_163980	NW_004515753.1	Scaffold209	163980	AA	GG	1946926632
SNP_P4_117243_202671	NW_004515753.1	Scaffold209	202671	TT	CC	1946926634
SNP_P4_117244_218140	NW_004515753.1	Scaffold209	218140	TT	AA	1946926636
SNP_P4_117245_253219	NW_004515753.1	Scaffold209	253219	CC	TT	1946926638
SNP_P4_117246_257767	NW_004515753.1	Scaffold209	257767	CC	TT	1946926640
SNP_P4_117247_258003	NW_004515753.1	Scaffold209	258003	GG	TT	1946926642
SNP_P4_117249_258324	NW_004515753.1	Scaffold209	258324	GG	AA	1946926644
SNP_P4_117250_258420	NW_004515753.1	Scaffold209	258420	TT	AA	1946926646
SNP_P4_117251_258586	NW_004515753.1	Scaffold209	258586	CC	GG	1946926648
SNP_P4_117252_258601	NW_004515753.1	Scaffold209	258601	GG	TT	1946926650
SNP_P4_117253_258613	NW_004515753.1	Scaffold209	258613	GG	AA	1946926652
SNP_P4_117254_265468	NW_004515753.1	Scaffold209	265468	TT	GG	1946926654
SNP_P4_117255_296445	NW_004515753.1	Scaffold209	296445	GG	CC	1946926656
SNP_P4_117256_296458	NW_004515753.1	Scaffold209	296458	GG	AA	1946926658
SNP_P4_117257_298255	NW_004515753.1	Scaffold209	298255	GG	CC	1946926660
SNP_P4_117258_298336	NW_004515753.1	Scaffold209	298336	TT	CC	1946926662
SNP_P4_117259_298341	NW_004515753.1	Scaffold209	298341	TT	CC	1946926664
SNP_P4_117260_298366	NW_004515753.1	Scaffold209	298366	CC	GG	1946926666
SNP_P4_117261_329395	NW_004515753.1	Scaffold209	329395	TT	CC	1946926668
SNP_P4_117262_329407	NW_004515753.1	Scaffold209	329407	AA	TT	1946926670
SNP_P4_117263_329408	NW_004515753.1	Scaffold209	329408	AA	TT	1946926672
SNP_P4_117264_329409	NW_004515753.1	Scaffold209	329409	AA	GG	1946926674
SNP_P4_117265_329411	NW_004515753.1	Scaffold209	329411	CC	TT	1946926676
SNP_P4_117266_329412	NW_004515753.1	Scaffold209	329412	CC	AA	1946926678
SNP_P4_117267_329420	NW_004515753.1	Scaffold209	329420	GG	AA	1946926680

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_117269_329439	NW_004515753.1	Scaffold209	329439	CC	AA	1946926684
SNP_P4_117270_329440	NW_004515753.1	Scaffold209	329440	AA	CC	1946926685
SNP_P4_117271_329486	NW_004515753.1	Scaffold209	329486	TT	AA	1946926686
SNP_P4_117272_329508	NW_004515753.1	Scaffold209	329508	AA	TT	1946926687
SNP_P4_117273_329565	NW_004515753.1	Scaffold209	329565	GG	TT	1946926688
SNP_P4_117274_329582	NW_004515753.1	Scaffold209	329582	GG	TT	1946926689
SNP_P4_117275_329606	NW_004515753.1	Scaffold209	329606	AA	CC	1946926690
SNP_P4_117276_329607	NW_004515753.1	Scaffold209	329607	GG	TT	1946926691
SNP_P4_117277_329627	NW_004515753.1	Scaffold209	329627	AA	TT	1946926692
SNP_P4_117278_329798	NW_004515753.1	Scaffold209	329798	GG	AA	1946926693
SNP_P4_117279_329804	NW_004515753.1	Scaffold209	329804	TT	AA	1946926694
SNP_P4_117280_329915	NW_004515753.1	Scaffold209	329915	TT	GG	1946926695
SNP_P4_117281_329916	NW_004515753.1	Scaffold209	329916	GG	AA	1946926696
SNP_P4_117282_330112	NW_004515753.1	Scaffold209	330112	AA	CC	1946926697
SNP_P4_117283_330309	NW_004515753.1	Scaffold209	330309	GG	TT	1946926698
SNP_P4_117284_330325	NW_004515753.1	Scaffold209	330325	AA	TT	1946926699
SNP_P4_117285_330545	NW_004515753.1	Scaffold209	330545	CC	TT	1946926700
SNP_P4_117286_330655	NW_004515753.1	Scaffold209	330655	TT	CC	1946926701
SNP_P4_117287_344769	NW_004515753.1	Scaffold209	344769	GG	TT	1946926702
SNP_P4_117288_345077	NW_004515753.1	Scaffold209	345077	TT	CC	1946926703
SNP_P4_117289_345109	NW_004515753.1	Scaffold209	345109	AA	GG	1946926705
SNP_P4_117290_345154	NW_004515753.1	Scaffold209	345154	AA	GG	1946926706
SNP_P4_117291_345174	NW_004515753.1	Scaffold209	345174	CC	GG	1946926708
SNP_P4_117292_345190	NW_004515753.1	Scaffold209	345190	GG	TT	1946926710
SNP_P4_117293_345278	NW_004515753.1	Scaffold209	345278	AA	GG	1946926712
SNP_P4_117294_345303	NW_004515753.1	Scaffold209	345303	GG	AA	1946926714
SNP_P4_117295_345316	NW_004515753.1	Scaffold209	345316	TT	CC	1946926716
SNP_P4_117296_345348	NW_004515753.1	Scaffold209	345348	AA	GG	1946926718
SNP_P4_117297_345410	NW_004515753.1	Scaffold209	345410	AA	GG	1946926720
SNP_P4_117298_345413	NW_004515753.1	Scaffold209	345413	GG	AA	1946926722
SNP_P4_117299_345509	NW_004515753.1	Scaffold209	345509	CC	AA	1946926724
SNP_P4_117300_345560	NW_004515753.1	Scaffold209	345560	AA	TT	1946926726
SNP_P4_117301_345582	NW_004515753.1	Scaffold209	345582	GG	TT	1946926728
SNP_P4_117302_345612	NW_004515753.1	Scaffold209	345612	CC	AA	1946926730
SNP_P4_117303_345659	NW_004515753.1	Scaffold209	345659	TT	AA	1946926732
SNP_P4_117304_345718	NW_004515753.1	Scaffold209	345718	GG	TT	1946926734
SNP_P4_117305_345762	NW_004515753.1	Scaffold209	345762	TT	AA	1946926736
SNP_P4_117306_345770	NW_004515753.1	Scaffold209	345770	GG	AA	1946926739
SNP_P4_117307_345777	NW_004515753.1	Scaffold209	345777	CC	GG	1946926741
SNP_P4_117308_345822	NW_004515753.1	Scaffold209	345822	AA	CC	1946926743
SNP_P4_117309_345853	NW_004515753.1	Scaffold209	345853	AA	TT	1946926745

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_117312_356433	NW_004515753.1	Scaffold209	356433	CC	GG	1946926751
SNP_P4_117313_356440	NW_004515753.1	Scaffold209	356440	TT	AA	1946926753
SNP_P4_117314_358044	NW_004515753.1	Scaffold209	358044	GG	AA	1946926755
SNP_P4_117315_358106	NW_004515753.1	Scaffold209	358106	AA	GG	1946926757
SNP_P4_117316_358158	NW_004515753.1	Scaffold209	358158	GG	AA	1946926759
SNP_P4_117317_358179	NW_004515753.1	Scaffold209	358179	CC	TT	1946926761
SNP_P4_117318_358193	NW_004515753.1	Scaffold209	358193	CC	TT	1946926763
SNP_P4_117319_358200	NW_004515753.1	Scaffold209	358200	GG	AA	1946926765
SNP_P4_117320_358249	NW_004515753.1	Scaffold209	358249	TT	AA	1946926767
SNP_P4_117321_358276	NW_004515753.1	Scaffold209	358276	TT	CC	1946926769
SNP_P4_117322_358284	NW_004515753.1	Scaffold209	358284	TT	GG	1946926771
SNP_P4_117323_358351	NW_004515753.1	Scaffold209	358351	AA	GG	1946926773
SNP_P4_117324_358390	NW_004515753.1	Scaffold209	358390	TT	GG	1946926775
SNP_P4_117325_358478	NW_004515753.1	Scaffold209	358478	TT	GG	1946926777
SNP_P4_117326_358511	NW_004515753.1	Scaffold209	358511	GG	AA	1946926779
SNP_P4_117327_369625	NW_004515753.1	Scaffold209	369625	TT	AA	1946926781
SNP_P4_117328_374923	NW_004515753.1	Scaffold209	374923	AA	TT	1946926783
SNP_P4_117330_378626	NW_004515753.1	Scaffold209	378626	AA	GG	1946926785
SNP_P4_117331_378676	NW_004515753.1	Scaffold209	378676	CC	TT	1946926787
SNP_P4_117332_378677	NW_004515753.1	Scaffold209	378677	TT	CC	1946926789
SNP_P4_117333_381927	NW_004515753.1	Scaffold209	381927	AA	GG	1946926791
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SNP_P4_117336_31634	NW_004515754.1	Scaffold210	31634	TT	AA	1946926797
SNP_P4_117337_31649	NW_004515754.1	Scaffold210	31649	TT	CC	1946926799
SNP_P4_117338_31654	NW_004515754.1	Scaffold210	31654	AA	GG	1946926801
SNP_P4_117340_31728	NW_004515754.1	Scaffold210	31728	TT	CC	1946926803
SNP_P4_117341_31830	NW_004515754.1	Scaffold210	31830	CC	GG	1946926805
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SNP_P4_117344_31856	NW_004515754.1	Scaffold210	31856	AA	GG	1946926811
SNP_P4_117345_32564	NW_004515754.1	Scaffold210	32564	GG	TT	1946926813
SNP_P4_117346_32595	NW_004515754.1	Scaffold210	32595	GG	TT	1946926815
SNP_P4_117348_34111	NW_004515754.1	Scaffold210	34111	AA	CC	1946926817
SNP_P4_117349_43685	NW_004515754.1	Scaffold210	43685	TT	CC	1946926819
SNP_P4_117350_49684	NW_004515754.1	Scaffold210	49684	AA	GG	1946926821
SNP_P4_117351_49687	NW_004515754.1	Scaffold210	49687	TT	GG	1946926823
SNP_P4_117352_49691	NW_004515754.1	Scaffold210	49691	CC	TT	1946926825
SNP_P4_117353_49694	NW_004515754.1	Scaffold210	49694	TT	AA	1946926827
SNP_P4_117354_49707	NW_004515754.1	Scaffold210	49707	GG	TT	1946926829

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_117356_49713	NW_004515754.1	Scaffold210	49713	GG	TT	1946926833
SNP_P4_117357_87547	NW_004515754.1	Scaffold210	87547	TT	GG	1946926835
SNP_P4_117358_87778	NW_004515754.1	Scaffold210	87778	GG	AA	1946926837
SNP_P4_117359_95640	NW_004515754.1	Scaffold210	95640	CC	TT	1946926839
SNP_P4_117360_95742	NW_004515754.1	Scaffold210	95742	GG	AA	1946926842
SNP_P4_117361_95769	NW_004515754.1	Scaffold210	95769	AA	GG	1946926844
SNP_P4_117362_95848	NW_004515754.1	Scaffold210	95848	TT	AA	1946926846
SNP_P4_117363_111881	NW_004515754.1	Scaffold210	111881	TT	GG	1946926848
SNP_P4_117364_117046	NW_004515754.1	Scaffold210	117046	GG	AA	1946926850
SNP_P4_117365_121567	NW_004515754.1	Scaffold210	121567	CC	TT	1946926852
SNP_P4_117367_192378	NW_004515754.1	Scaffold210	192378	AA	GG	1946926854
SNP_P4_117368_192425	NW_004515754.1	Scaffold210	192425	AA	TT	1946926856
SNP_P4_117369_192697	NW_004515754.1	Scaffold210	192697	TT	CC	1946926858
SNP_P4_117370_192712	NW_004515754.1	Scaffold210	192712	TT	GG	1946926860
SNP_P4_117371_192734	NW_004515754.1	Scaffold210	192734	AA	GG	1946926862
SNP_P4_117372_192791	NW_004515754.1	Scaffold210	192791	TT	CC	1946926864
SNP_P4_117373_192822	NW_004515754.1	Scaffold210	192822	GG	AA	1946926867
SNP_P4_117375_202152	NW_004515754.1	Scaffold210	202152	CC	TT	1946926869
SNP_P4_117376_223280	NW_004515754.1	Scaffold210	223280	TT	CC	1946926871
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SNP_P4_117378_223508	NW_004515754.1	Scaffold210	223508	GG	AA	1946926875
SNP_P4_117379_233613	NW_004515754.1	Scaffold210	233613	CC	AA	1946926877
SNP_P4_117380_233696	NW_004515754.1	Scaffold210	233696	AA	CC	1946926879
SNP_P4_117381_233859	NW_004515754.1	Scaffold210	233859	CC	TT	1946926881
SNP_P4_117382_233861	NW_004515754.1	Scaffold210	233861	GG	AA	1946926883
SNP_P4_117383_233867	NW_004515754.1	Scaffold210	233867	AA	GG	1946926886
SNP_P4_117384_234011	NW_004515754.1	Scaffold210	234011	TT	GG	1946926888
SNP_P4_117385_263589	NW_004515754.1	Scaffold210	263589	GG	AA	1946926890
SNP_P4_117386_269057	NW_004515754.1	Scaffold210	269057	GG	TT	1946926892
SNP_P4_117387_269379	NW_004515754.1	Scaffold210	269379	AA	GG	1946926894
SNP_P4_117388_298803	NW_004515754.1	Scaffold210	298803	GG	AA	1946926896
SNP_P4_117389_298816	NW_004515754.1	Scaffold210	298816	AA	GG	1946926899
SNP_P4_117390_298817	NW_004515754.1	Scaffold210	298817	TT	AA	1946926901
SNP_P4_117391_298818	NW_004515754.1	Scaffold210	298818	TT	AA	1946926903
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SNP_P4_117393_299023	NW_004515754.1	Scaffold210	299023	GG	AA	1946926907
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SNP_P4_117396_300727	NW_004515754.1	Scaffold210	300727	GG	TT	1946926911
SNP_P4_117397_300795	NW_004515754.1	Scaffold210	300795	CC	TT	1946926913
SNP_P4_117398_301859	NW_004515754.1	Scaffold210	301859	AA	TT	1946926915
SNP_P4_117400_337957	NW_004515754.1	Scaffold210	337957	GG	TT	1946926917

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_117402_343732	NW_004515754.1	Scaffold210	343732	TT	GG	1946926921
SNP_P4_117403_343744	NW_004515754.1	Scaffold210	343744	TT	GG	1946926922
SNP_P4_117404_343762	NW_004515754.1	Scaffold210	343762	TT	CC	1946926923
SNP_P4_117405_345099	NW_004515754.1	Scaffold210	345099	TT	AA	1946926924
SNP_P4_117406_345102	NW_004515754.1	Scaffold210	345102	GG	CC	1946926925
SNP_P4_117407_345153	NW_004515754.1	Scaffold210	345153	CC	TT	1946926926
SNP_P4_117408_345205	NW_004515754.1	Scaffold210	345205	GG	AA	1946926928
SNP_P4_117409_345233	NW_004515754.1	Scaffold210	345233	GG	AA	1946926930
SNP_P4_117410_345484	NW_004515754.1	Scaffold210	345484	AA	CC	1946926932
SNP_P4_117411_345487	NW_004515754.1	Scaffold210	345487	CC	AA	1946926934
SNP_P4_117412_387831	NW_004515754.1	Scaffold210	387831	GG	AA	1946926936
SNP_P4_117413_388204	NW_004515754.1	Scaffold210	388204	AA	GG	1946926938
SNP_P4_117414_392031	NW_004515754.1	Scaffold210	392031	GG	AA	1946926940
SNP_P4_117415_400218	NW_004515754.1	Scaffold210	400218	CC	TT	1946926942
SNP_P4_117416_429654	NW_004515754.1	Scaffold210	429654	AA	GG	1946926944
SNP_P4_117417_429663	NW_004515754.1	Scaffold210	429663	TT	AA	1946926946
SNP_P4_117418_429752	NW_004515754.1	Scaffold210	429752	AA	GG	1946926948
SNP_P4_117419_429757	NW_004515754.1	Scaffold210	429757	TT	CC	1946926950
SNP_P4_117420_429788	NW_004515754.1	Scaffold210	429788	CC	GG	1946926952
SNP_P4_117421_429794	NW_004515754.1	Scaffold210	429794	TT	AA	1946926954
SNP_P4_117422_429810	NW_004515754.1	Scaffold210	429810	AA	TT	1946926956
SNP_P4_117423_429823	NW_004515754.1	Scaffold210	429823	AA	CC	1946926958
SNP_P4_117424_429854	NW_004515754.1	Scaffold210	429854	CC	AA	1946926960
SNP_P4_117425_429859	NW_004515754.1	Scaffold210	429859	CC	GG	1946926962
SNP_P4_117426_429860	NW_004515754.1	Scaffold210	429860	TT	GG	1946926964
SNP_P4_117427_429861	NW_004515754.1	Scaffold210	429861	GG	TT	1946926966
SNP_P4_117428_429986	NW_004515754.1	Scaffold210	429986	TT	CC	1946926968
SNP_P4_117429_429995	NW_004515754.1	Scaffold210	429995	AA	GG	1946926970
SNP_P4_117430_430112	NW_004515754.1	Scaffold210	430112	AA	CC	1946926972
SNP_P4_117431_454633	NW_004515754.1	Scaffold210	454633	TT	CC	1946926974
SNP_P4_117432_480823	NW_004515754.1	Scaffold210	480823	GG	CC	1946926976
SNP_P4_117433_496141	NW_004515754.1	Scaffold210	496141	GG	AA	1946926978
SNP_P4_117434_496205	NW_004515754.1	Scaffold210	496205	AA	CC	1946926980
SNP_P4_117435_506409	NW_004515754.1	Scaffold210	506409	GG	AA	1946926982
SNP_P4_117436_509454	NW_004515754.1	Scaffold210	509454	CC	GG	1946926984
SNP_P4_117437_513262	NW_004515754.1	Scaffold210	513262	TT	CC	1946926986
SNP_P4_117438_513265	NW_004515754.1	Scaffold210	513265	GG	AA	1946926988
SNP_P4_117439_513355	NW_004515754.1	Scaffold210	513355	CC	TT	1946926990
SNP_P4_117440_513576	NW_004515754.1	Scaffold210	513576	GG	AA	1946926992
SNP_P4_117441_513583	NW_004515754.1	Scaffold210	513583	TT	GG	1946926994
SNP_P4_117442_513599	NW_004515754.1	Scaffold210	513599	CC	TT	1946926996

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_117444_513637	NW_004515754.1	Scaffold210	513637	TT	CC	1946927000
SNP_P4_117445_513638	NW_004515754.1	Scaffold210	513638	AA	GG	1946927002
SNP_P4_117446_513661	NW_004515754.1	Scaffold210	513661	AA	GG	1946927004
SNP_P4_117447_513665	NW_004515754.1	Scaffold210	513665	AA	GG	1946927006
SNP_P4_117448_513681	NW_004515754.1	Scaffold210	513681	TT	AA	1946927008
SNP_P4_117449_515632	NW_004515754.1	Scaffold210	515632	AA	TT	1946927010
SNP_P4_117450_550501	NW_004515754.1	Scaffold210	550501	TT	GG	1946927012
SNP_P4_117451_555201	NW_004515754.1	Scaffold210	555201	GG	AA	1946927014
SNP_P4_117452_555213	NW_004515754.1	Scaffold210	555213	CC	GG	1946927016
SNP_P4_117453_555217	NW_004515754.1	Scaffold210	555217	AA	TT	1946927018
SNP_P4_117454_568665	NW_004515754.1	Scaffold210	568665	TT	CC	1946927020
SNP_P4_117455_568728	NW_004515754.1	Scaffold210	568728	CC	TT	1946927021
SNP_P4_117456_569746	NW_004515754.1	Scaffold210	569746	CC	TT	1946927022
SNP_P4_117457_572654	NW_004515754.1	Scaffold210	572654	TT	CC	1946927023
SNP_P4_117458_572907	NW_004515754.1	Scaffold210	572907	CC	TT	1946927025
SNP_P4_117459_572975	NW_004515754.1	Scaffold210	572975	TT	CC	1946927027
SNP_P4_117460_572997	NW_004515754.1	Scaffold210	572997	AA	TT	1946927029
SNP_P4_117461_573013	NW_004515754.1	Scaffold210	573013	AA	GG	1946927031
SNP_P4_117462_573028	NW_004515754.1	Scaffold210	573028	AA	GG	1946927033
SNP_P4_117463_576672	NW_004515754.1	Scaffold210	576672	CC	AA	1946927035
SNP_P4_117464_576694	NW_004515754.1	Scaffold210	576694	TT	GG	1946927037
SNP_P4_117465_576766	NW_004515754.1	Scaffold210	576766	TT	AA	1946927039
SNP_P4_117466_576834	NW_004515754.1	Scaffold210	576834	AA	TT	1946927041
SNP_P4_117467_576855	NW_004515754.1	Scaffold210	576855	CC	TT	1946927043
SNP_P4_117468_576909	NW_004515754.1	Scaffold210	576909	GG	CC	1946927045
SNP_P4_117469_576950	NW_004515754.1	Scaffold210	576950	GG	AA	1946927047
SNP_P4_117470_577006	NW_004515754.1	Scaffold210	577006	TT	AA	1946927049
SNP_P4_117471_577019	NW_004515754.1	Scaffold210	577019	GG	TT	1946927051
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SNP_P4_117473_577077	NW_004515754.1	Scaffold210	577077	CC	TT	1946927055
SNP_P4_117475_577150	NW_004515754.1	Scaffold210	577150	AA	GG	1946927057
SNP_P4_117476_577402	NW_004515754.1	Scaffold210	577402	AA	GG	1946927059
SNP_P4_117477_577466	NW_004515754.1	Scaffold210	577466	AA	GG	1946927061
SNP_P4_117478_577479	NW_004515754.1	Scaffold210	577479	AA	CC	1946927063
SNP_P4_117479_577491	NW_004515754.1	Scaffold210	577491	GG	AA	1946927065
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SNP_P4_117481_577641	NW_004515754.1	Scaffold210	577641	AA	CC	1946927069
SNP_P4_117482_577677	NW_004515754.1	Scaffold210	577677	GG	AA	1946927071
SNP_P4_117483_577698	NW_004515754.1	Scaffold210	577698	GG	AA	1946927073
SNP_P4_117484_577781	NW_004515754.1	Scaffold210	577781	AA	GG	1946927075
SNP_P4_117485_577869	NW_004515754.1	Scaffold210	577869	TT	CC	1946927077

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_117487_580628	NW_004515754.1	Scaffold210	580628	TT	AA	1946927081
SNP_P4_117488_580670	NW_004515754.1	Scaffold210	580670	CC	AA	1946927083
SNP_P4_117489_580957	NW_004515754.1	Scaffold210	580957	AA	GG	1946927085
SNP_P4_117490_580968	NW_004515754.1	Scaffold210	580968	AA	TT	1946927087
SNP_P4_117491_607381	NW_004515754.1	Scaffold210	607381	CC	TT	1946927089
SNP_P4_117492_617332	NW_004515754.1	Scaffold210	617332	AA	TT	1946927091
SNP_P4_117493_620742	NW_004515754.1	Scaffold210	620742	TT	CC	1946927093
SNP_P4_117494_621857	NW_004515754.1	Scaffold210	621857	TT	AA	1946927095
SNP_P4_117495_622264	NW_004515754.1	Scaffold210	622264	TT	AA	1946927097
SNP_P4_117496_622284	NW_004515754.1	Scaffold210	622284	TT	GG	1946927099
SNP_P4_117497_8677	NW_004515755.1	Scaffold212	8677	GG	AA	1946927101
SNP_P4_117498_8739	NW_004515755.1	Scaffold212	8739	CC	GG	1946927103
SNP_P4_117499_8808	NW_004515755.1	Scaffold212	8808	CC	TT	1946927105
SNP_P4_117500_8904	NW_004515755.1	Scaffold212	8904	AA	GG	1946927107
SNP_P4_117501_8989	NW_004515755.1	Scaffold212	8989	CC	TT	1946927109
SNP_P4_117502_9052	NW_004515755.1	Scaffold212	9052	TT	GG	1946927111
SNP_P4_117503_9107	NW_004515755.1	Scaffold212	9107	CC	TT	1946927113
SNP_P4_117504_9119	NW_004515755.1	Scaffold212	9119	AA	GG	1946927115
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SNP_P4_117517_101249	NW_004515755.1	Scaffold212	101249	CC	TT	1946927141
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SNP_P4_117519_101260	NW_004515755.1	Scaffold212	101260	CC	AA	1946927145
SNP_P4_117520_101264	NW_004515755.1	Scaffold212	101264	GG	AA	1946927147
SNP_P4_117521_101265	NW_004515755.1	Scaffold212	101265	GG	AA	1946927149
SNP_P4_117522_101267	NW_004515755.1	Scaffold212	101267	GG	AA	1946927151
SNP_P4_117523_101268	NW_004515755.1	Scaffold212	101268	TT	GG	1946927153
SNP_P4_117524_107148	NW_004515755.1	Scaffold212	107148	GG	TT	1946927155
SNP_P4_117525_107150	NW_004515755.1	Scaffold212	107150	TT	AA	1946927157
SNP_P4_117526_110754	NW_004515755.1	Scaffold212	110754	GG	AA	1946927159
SNP_P4_117527_119532	NW_004515755.1	Scaffold212	119532	AA	CC	1946927161

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_117529_161307	NW_004515755.1	Scaffold212	161307	AA	CC	1946927165
SNP_P4_117530_161490	NW_004515755.1	Scaffold212	161490	TT	GG	1946927167
SNP_P4_117531_161565	NW_004515755.1	Scaffold212	161565	AA	TT	1946927169
SNP_P4_117533_180832	NW_004515755.1	Scaffold212	180832	CC	TT	1946927171
SNP_P4_117534_180938	NW_004515755.1	Scaffold212	180938	TT	GG	1946927173
SNP_P4_117535_181056	NW_004515755.1	Scaffold212	181056	CC	AA	1946927176
SNP_P4_117536_181153	NW_004515755.1	Scaffold212	181153	CC	AA	1946927178
SNP_P4_117537_181362	NW_004515755.1	Scaffold212	181362	CC	TT	1946927180
SNP_P4_117538_181367	NW_004515755.1	Scaffold212	181367	AA	TT	1946927182
SNP_P4_117539_181431	NW_004515755.1	Scaffold212	181431	GG	AA	1946927184
SNP_P4_117540_183238	NW_004515755.1	Scaffold212	183238	AA	GG	1946927186
SNP_P4_117541_185651	NW_004515755.1	Scaffold212	185651	TT	CC	1946927188
SNP_P4_117542_186371	NW_004515755.1	Scaffold212	186371	CC	TT	1946927190
SNP_P4_117543_204502	NW_004515755.1	Scaffold212	204502	TT	AA	1946927192
SNP_P4_117544_207339	NW_004515755.1	Scaffold212	207339	TT	CC	1946927194
SNP_P4_117545_207758	NW_004515755.1	Scaffold212	207758	GG	AA	1946927196
SNP_P4_117546_207809	NW_004515755.1	Scaffold212	207809	TT	CC	1946927199
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SNP_P4_117556_296967	NW_004515755.1	Scaffold212	296967	CC	TT	1946927215
SNP_P4_117557_296972	NW_004515755.1	Scaffold212	296972	AA	GG	1946927217
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SNP_P4_117562_331981	NW_004515755.1	Scaffold212	331981	CC	TT	1946927225
SNP_P4_117563_332052	NW_004515755.1	Scaffold212	332052	GG	AA	1946927227
SNP_P4_117564_332169	NW_004515755.1	Scaffold212	332169	GG	TT	1946927229
SNP_P4_117565_353931	NW_004515755.1	Scaffold212	353931	AA	TT	1946927231
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SNP_P4_117572_356607	NW_004515755.1	Scaffold212	356607	TT	CC	1946927245
SNP_P4_117573_356634	NW_004515755.1	Scaffold212	356634	GG	TT	1946927247

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_117574_356814	NW_004515755.1	Scaffold212	356814	TT	CC	1946927249
SNP_P4_117575_356837	NW_004515755.1	Scaffold212	356837	AA	GG	1946927251
SNP_P4_117576_356840	NW_004515755.1	Scaffold212	356840	AA	GG	1946927253
SNP_P4_117577_356896	NW_004515755.1	Scaffold212	356896	TT	GG	1946927255
SNP_P4_117578_356979	NW_004515755.1	Scaffold212	356979	GG	AA	1946927257
SNP_P4_117579_356996	NW_004515755.1	Scaffold212	356996	GG	AA	1946927260
SNP_P4_117580_357009	NW_004515755.1	Scaffold212	357009	GG	AA	1946927262
SNP_P4_117581_357016	NW_004515755.1	Scaffold212	357016	CC	TT	1946927264
SNP_P4_117582_357039	NW_004515755.1	Scaffold212	357039	CC	TT	1946927266
SNP_P4_117583_357045	NW_004515755.1	Scaffold212	357045	CC	GG	1946927268
SNP_P4_117584_365672	NW_004515755.1	Scaffold212	365672	AA	GG	1946927270
SNP_P4_117585_366004	NW_004515755.1	Scaffold212	366004	TT	CC	1946927272
SNP_P4_117586_366039	NW_004515755.1	Scaffold212	366039	TT	CC	1946927274
SNP_P4_117587_367957	NW_004515755.1	Scaffold212	367957	AA	GG	1946927276
SNP_P4_117588_367984	NW_004515755.1	Scaffold212	367984	CC	TT	1946927278
SNP_P4_117589_368309	NW_004515755.1	Scaffold212	368309	AA	CC	1946927280
SNP_P4_117590_368333	NW_004515755.1	Scaffold212	368333	GG	AA	1946927282
SNP_P4_117591_368345	NW_004515755.1	Scaffold212	368345	AA	GG	1946927284
SNP_P4_117592_368839	NW_004515755.1	Scaffold212	368839	GG	AA	1946927286
SNP_P4_117593_368868	NW_004515755.1	Scaffold212	368868	GG	TT	1946927288
SNP_P4_117594_369019	NW_004515755.1	Scaffold212	369019	CC	TT	1946927290
SNP_P4_117595_369277	NW_004515755.1	Scaffold212	369277	TT	CC	1946927292
SNP_P4_117596_369292	NW_004515755.1	Scaffold212	369292	AA	GG	1946927294
SNP_P4_117597_369304	NW_004515755.1	Scaffold212	369304	AA	GG	1946927296
SNP_P4_117598_369382	NW_004515755.1	Scaffold212	369382	GG	AA	1946927298
SNP_P4_117599_412703	NW_004515755.1	Scaffold212	412703	AA	GG	1946927300
SNP_P4_117600_426175	NW_004515755.1	Scaffold212	426175	TT	CC	1946927302
SNP_P4_117601_426176	NW_004515755.1	Scaffold212	426176	GG	AA	1946927304
SNP_P4_117602_463392	NW_004515755.1	Scaffold212	463392	TT	AA	1946927306
SNP_P4_117603_463437	NW_004515755.1	Scaffold212	463437	AA	TT	1946927308
SNP_P4_117604_463438	NW_004515755.1	Scaffold212	463438	TT	GG	1946927310
SNP_P4_117605_463452	NW_004515755.1	Scaffold212	463452	GG	AA	1946927312
SNP_P4_117606_463476	NW_004515755.1	Scaffold212	463476	TT	GG	1946927314
SNP_P4_117607_463503	NW_004515755.1	Scaffold212	463503	TT	AA	1946927316
SNP_P4_117608_463544	NW_004515755.1	Scaffold212	463544	AA	GG	1946927319
SNP_P4_117609_463583	NW_004515755.1	Scaffold212	463583	GG	AA	1946927321
SNP_P4_117610_463584	NW_004515755.1	Scaffold212	463584	GG	CC	1946927323
SNP_P4_117611_463589	NW_004515755.1	Scaffold212	463589	AA	GG	1946927325
SNP_P4_117612_463652	NW_004515755.1	Scaffold212	463652	AA	GG	1946927327
SNP_P4_117613_463677	NW_004515755.1	Scaffold212	463677	AA	CC	1946927329
SNP_P4_117615_464197	NW_004515755.1	Scaffold212	464197	TT	GG	1946927331
SNP_P4_117616_464214	NW_004515755.1	Scaffold212	464214	TT	CC	1946927333

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_117618_488740	NW_004515755.1	Scaffold212	488740	GG	TT	1946927337
SNP_P4_117619_495343	NW_004515755.1	Scaffold212	495343	AA	GG	1946927339
SNP_P4_117620_500661	NW_004515755.1	Scaffold212	500661	CC	TT	1946927341
SNP_P4_117621_500664	NW_004515755.1	Scaffold212	500664	TT	CC	1946927343
SNP_P4_117622_500670	NW_004515755.1	Scaffold212	500670	GG	AA	1946927345
SNP_P4_117623_500674	NW_004515755.1	Scaffold212	500674	CC	TT	1946927347
SNP_P4_117624_500687	NW_004515755.1	Scaffold212	500687	TT	GG	1946927349
SNP_P4_117625_500715	NW_004515755.1	Scaffold212	500715	AA	GG	1946927351
SNP_P4_117626_500723	NW_004515755.1	Scaffold212	500723	TT	CC	1946927353
SNP_P4_117627_500733	NW_004515755.1	Scaffold212	500733	AA	GG	1946927355
SNP_P4_117628_500799	NW_004515755.1	Scaffold212	500799	AA	GG	1946927357
SNP_P4_117629_500949	NW_004515755.1	Scaffold212	500949	TT	CC	1946927359
SNP_P4_117630_500987	NW_004515755.1	Scaffold212	500987	GG	AA	1946927361
SNP_P4_117631_501001	NW_004515755.1	Scaffold212	501001	GG	CC	1946927363
SNP_P4_117632_501033	NW_004515755.1	Scaffold212	501033	TT	GG	1946927365
SNP_P4_117633_501047	NW_004515755.1	Scaffold212	501047	CC	GG	1946927367
SNP_P4_117634_501058	NW_004515755.1	Scaffold212	501058	CC	TT	1946927369
SNP_P4_117635_6875	NW_004515756.1	Scaffold214	6875	GG	TT	1946927371
SNP_P4_117636_6993	NW_004515756.1	Scaffold214	6993	GG	TT	1946927373
SNP_P4_117637_7303	NW_004515756.1	Scaffold214	7303	CC	GG	1946927375
SNP_P4_117638_7511	NW_004515756.1	Scaffold214	7511	AA	TT	1946927377
SNP_P4_117639_13379	NW_004515756.1	Scaffold214	13379	CC	TT	1946927379
SNP_P4_117640_14322	NW_004515756.1	Scaffold214	14322	AA	CC	1946927381
SNP_P4_117641_14332	NW_004515756.1	Scaffold214	14332	GG	AA	1946927383
SNP_P4_117643_19118	NW_004515756.1	Scaffold214	19118	TT	CC	1946927386
SNP_P4_117644_19128	NW_004515756.1	Scaffold214	19128	CC	GG	1946927388
SNP_P4_117645_19659	NW_004515756.1	Scaffold214	19659	TT	GG	1946927390
SNP_P4_117646_24773	NW_004515756.1	Scaffold214	24773	AA	GG	1946927392
SNP_P4_117647_25098	NW_004515756.1	Scaffold214	25098	GG	TT	1946927394
SNP_P4_117648_29373	NW_004515756.1	Scaffold214	29373	AA	GG	1946927396
SNP_P4_117649_29447	NW_004515756.1	Scaffold214	29447	GG	AA	1946927398
SNP_P4_117650_29489	NW_004515756.1	Scaffold214	29489	TT	CC	1946927400
SNP_P4_117651_34593	NW_004515756.1	Scaffold214	34593	AA	CC	1946927402
SNP_P4_117652_34765	NW_004515756.1	Scaffold214	34765	TT	AA	1946927404
SNP_P4_117653_34776	NW_004515756.1	Scaffold214	34776	AA	GG	1946927406
SNP_P4_117654_34823	NW_004515756.1	Scaffold214	34823	AA	TT	1946927408
SNP_P4_117655_34983	NW_004515756.1	Scaffold214	34983	TT	GG	1946927410
SNP_P4_117656_35004	NW_004515756.1	Scaffold214	35004	GG	TT	1946927412
SNP_P4_117657_35095	NW_004515756.1	Scaffold214	35095	CC	AA	1946927414
SNP_P4_117658_35310	NW_004515756.1	Scaffold214	35310	GG	AA	1946927416
SNP_P4_117659_35311	NW_004515756.1	Scaffold214	35311	AA	GG	1946927418

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_117661_35375	NW_004515756.1	Scaffold214	35375	AA	GG	1946927422
SNP_P4_117662_39041	NW_004515756.1	Scaffold214	39041	AA	TT	1946927424
SNP_P4_117663_39043	NW_004515756.1	Scaffold214	39043	AA	TT	1946927426
SNP_P4_117664_39240	NW_004515756.1	Scaffold214	39240	AA	TT	1946927428
SNP_P4_117665_39306	NW_004515756.1	Scaffold214	39306	AA	GG	1946927430
SNP_P4_117666_49470	NW_004515756.1	Scaffold214	49470	AA	CC	1946927432
SNP_P4_117667_49796	NW_004515756.1	Scaffold214	49796	CC	TT	1946927434
SNP_P4_117668_51685	NW_004515756.1	Scaffold214	51685	TT	CC	1946927436
SNP_P4_117669_52029	NW_004515756.1	Scaffold214	52029	CC	TT	1946927438
SNP_P4_117670_52034	NW_004515756.1	Scaffold214	52034	TT	GG	1946927440
SNP_P4_117671_52040	NW_004515756.1	Scaffold214	52040	AA	GG	1946927442
SNP_P4_117672_52044	NW_004515756.1	Scaffold214	52044	TT	GG	1946927444
SNP_P4_117673_52841	NW_004515756.1	Scaffold214	52841	TT	GG	1946927446
SNP_P4_117674_53240	NW_004515756.1	Scaffold214	53240	TT	CC	1946927448
SNP_P4_117675_54711	NW_004515756.1	Scaffold214	54711	AA	GG	1946927450
SNP_P4_117676_54754	NW_004515756.1	Scaffold214	54754	CC	TT	1946927452
SNP_P4_117677_54890	NW_004515756.1	Scaffold214	54890	TT	AA	1946927454
SNP_P4_117678_55137	NW_004515756.1	Scaffold214	55137	AA	GG	1946927456
SNP_P4_117679_55172	NW_004515756.1	Scaffold214	55172	CC	TT	1946927458
SNP_P4_117680_55243	NW_004515756.1	Scaffold214	55243	TT	CC	1946927460
SNP_P4_117681_55245	NW_004515756.1	Scaffold214	55245	TT	CC	1946927462
SNP_P4_117682_55261	NW_004515756.1	Scaffold214	55261	GG	AA	1946927464
SNP_P4_117683_55510	NW_004515756.1	Scaffold214	55510	TT	AA	1946927466
SNP_P4_117684_59809	NW_004515756.1	Scaffold214	59809	CC	GG	1946927468
SNP_P4_117685_59823	NW_004515756.1	Scaffold214	59823	GG	AA	1946927469
SNP_P4_117686_60105	NW_004515756.1	Scaffold214	60105	TT	AA	1946927471
SNP_P4_117687_72795	NW_004515756.1	Scaffold214	72795	CC	TT	1946927473
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SNP_P4_117691_79386	NW_004515756.1	Scaffold214	79386	GG	AA	1946927481
SNP_P4_117692_79522	NW_004515756.1	Scaffold214	79522	AA	GG	1946927483
SNP_P4_117693_79712	NW_004515756.1	Scaffold214	79712	TT	CC	1946927485
SNP_P4_117694_81036	NW_004515756.1	Scaffold214	81036	TT	GG	1946927487
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SNP_P4_117696_81748	NW_004515756.1	Scaffold214	81748	AA	CC	1946927490
SNP_P4_117697_82070	NW_004515756.1	Scaffold214	82070	AA	TT	1946927492
SNP_P4_117698_82144	NW_004515756.1	Scaffold214	82144	AA	TT	1946927494
SNP_P4_117699_86463	NW_004515756.1	Scaffold214	86463	AA	GG	1946927496
SNP_P4_117700_86465	NW_004515756.1	Scaffold214	86465	CC	TT	1946927498
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_117703_89445	NW_004515756.1	Scaffold214	89445	GG	CC	1946927504
SNP_P4_117704_91780	NW_004515756.1	Scaffold214	91780	TT	CC	1946927505
SNP_P4_117705_92041	NW_004515756.1	Scaffold214	92041	CC	AA	1946927507
SNP_P4_117706_92188	NW_004515756.1	Scaffold214	92188	CC	TT	1946927509
SNP_P4_117707_92340	NW_004515756.1	Scaffold214	92340	GG	AA	1946927511
SNP_P4_117708_93538	NW_004515756.1	Scaffold214	93538	CC	GG	1946927513
SNP_P4_117709_102598	NW_004515756.1	Scaffold214	102598	CC	TT	1946927515
SNP_P4_117710_104418	NW_004515756.1	Scaffold214	104418	CC	TT	1946927517
SNP_P4_117711_106341	NW_004515756.1	Scaffold214	106341	GG	AA	1946927519
SNP_P4_117712_106347	NW_004515756.1	Scaffold214	106347	AA	CC	1946927521
SNP_P4_117713_106450	NW_004515756.1	Scaffold214	106450	GG	AA	1946927523
SNP_P4_117714_119977	NW_004515756.1	Scaffold214	119977	CC	GG	1946927525
SNP_P4_117715_120145	NW_004515756.1	Scaffold214	120145	CC	GG	1946927527
SNP_P4_117716_120546	NW_004515756.1	Scaffold214	120546	AA	CC	1946927529
SNP_P4_117717_122927	NW_004515756.1	Scaffold214	122927	TT	AA	1946927531
SNP_P4_117718_122951	NW_004515756.1	Scaffold214	122951	TT	AA	1946927533
SNP_P4_117719_125677	NW_004515756.1	Scaffold214	125677	GG	AA	1946927535
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SNP_P4_117721_126095	NW_004515756.1	Scaffold214	126095	TT	GG	1946927539
SNP_P4_117722_128104	NW_004515756.1	Scaffold214	128104	CC	TT	1946927541
SNP_P4_117723_128109	NW_004515756.1	Scaffold214	128109	CC	TT	1946927543
SNP_P4_117724_128119	NW_004515756.1	Scaffold214	128119	GG	TT	1946927545
SNP_P4_117725_128223	NW_004515756.1	Scaffold214	128223	AA	GG	1946927547
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SNP_P4_117730_137032	NW_004515756.1	Scaffold214	137032	TT	CC	1946927558
SNP_P4_117731_137357	NW_004515756.1	Scaffold214	137357	TT	GG	1946927560
SNP_P4_117732_138712	NW_004515756.1	Scaffold214	138712	TT	GG	1946927563
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SNP_P4_117734_139206	NW_004515756.1	Scaffold214	139206	CC	TT	1946927567
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SNP_P4_117737_139295	NW_004515756.1	Scaffold214	139295	CC	GG	1946927573
SNP_P4_117738_139309	NW_004515756.1	Scaffold214	139309	AA	CC	1946927575
SNP_P4_117739_139401	NW_004515756.1	Scaffold214	139401	TT	GG	1946927577
SNP_P4_117740_139412	NW_004515756.1	Scaffold214	139412	TT	CC	1946927579
SNP_P4_117741_139413	NW_004515756.1	Scaffold214	139413	GG	AA	1946927581
SNP_P4_117743_139428	NW_004515756.1	Scaffold214	139428	CC	AA	1946927583
SNP_P4_117744_139436	NW_004515756.1	Scaffold214	139436	GG	TT	1946927585

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_117746_139449	NW_004515756.1	Scaffold214	139449	TT	CC	1946927589
SNP_P4_117747_139472	NW_004515756.1	Scaffold214	139472	CC	TT	1946927591
SNP_P4_117748_139608	NW_004515756.1	Scaffold214	139608	AA	CC	1946927593
SNP_P4_117749_139625	NW_004515756.1	Scaffold214	139625	TT	AA	1946927595
SNP_P4_117750_143022	NW_004515756.1	Scaffold214	143022	GG	TT	1946927597
SNP_P4_117751_143876	NW_004515756.1	Scaffold214	143876	AA	CC	1946927599
SNP_P4_117752_143934	NW_004515756.1	Scaffold214	143934	TT	GG	1946927601
SNP_P4_117753_144334	NW_004515756.1	Scaffold214	144334	TT	GG	1946927603
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SNP_P4_117755_144563	NW_004515756.1	Scaffold214	144563	AA	GG	1946927607
SNP_P4_117756_144612	NW_004515756.1	Scaffold214	144612	TT	AA	1946927609
SNP_P4_117757_144738	NW_004515756.1	Scaffold214	144738	CC	TT	1946927611
SNP_P4_117758_144774	NW_004515756.1	Scaffold214	144774	AA	TT	1946927613
SNP_P4_117759_144834	NW_004515756.1	Scaffold214	144834	AA	CC	1946927614
SNP_P4_117760_144996	NW_004515756.1	Scaffold214	144996	TT	CC	1946927616
SNP_P4_117761_145065	NW_004515756.1	Scaffold214	145065	TT	GG	1946927618
SNP_P4_117762_14175	NW_004515757.1	Scaffold217	14175	GG	TT	1946927620
SNP_P4_117763_16808	NW_004515757.1	Scaffold217	16808	CC	AA	1946927622
SNP_P4_117764_1186	NW_004515758.1	Scaffold220	1186	AA	CC	1946927624
SNP_P4_117765_1532	NW_004515758.1	Scaffold220	1532	TT	CC	1946927626
SNP_P4_117766_1646	NW_004515758.1	Scaffold220	1646	GG	TT	1946927628
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SNP_P4_117771_4261	NW_004515758.1	Scaffold220	4261	GG	AA	1946927637
SNP_P4_117772_4644	NW_004515758.1	Scaffold220	4644	AA	GG	1946927639
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SNP_P4_117777_4845	NW_004515758.1	Scaffold220	4845	AA	CC	1946927649
SNP_P4_117778_4954	NW_004515758.1	Scaffold220	4954	CC	AA	1946927651
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SNP_P4_117781_4987	NW_004515758.1	Scaffold220	4987	TT	CC	1946927657
SNP_P4_117782_4989	NW_004515758.1	Scaffold220	4989	GG	AA	1946927659
SNP_P4_117783_5028	NW_004515758.1	Scaffold220	5028	TT	CC	1946927661
SNP_P4_117784_5414	NW_004515758.1	Scaffold220	5414	AA	TT	1946927662
SNP_P4_117785_5520	NW_004515758.1	Scaffold220	5520	TT	AA	1946927664
SNP_P4_117786_5707	NW_004515758.1	Scaffold220	5707	GG	AA	1946927666

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_117787_5789	NW_004515758.1	Scaffold220	5789	AA	GG	1946927668
SNP_P4_117788_753	NW_004515759.1	Scaffold221	753	CC	TT	1946927670
SNP_P4_117789_756	NW_004515759.1	Scaffold221	756	CC	TT	1946927672
SNP_P4_117790_3148	NW_004515759.1	Scaffold221	3148	AA	GG	1946927674
SNP_P4_117791_3152	NW_004515759.1	Scaffold221	3152	GG	CC	1946927676
SNP_P4_117792_3166	NW_004515759.1	Scaffold221	3166	TT	AA	1946927678
SNP_P4_117793_3502	NW_004515759.1	Scaffold221	3502	AA	TT	1946927680
SNP_P4_117794_3511	NW_004515759.1	Scaffold221	3511	AA	GG	1946927682
SNP_P4_117795_3524	NW_004515759.1	Scaffold221	3524	TT	CC	1946927684
SNP_P4_117796_18834	NW_004515759.1	Scaffold221	18834	AA	GG	1946927686
SNP_P4_117797_18858	NW_004515759.1	Scaffold221	18858	AA	GG	1946927688
SNP_P4_117798_18866	NW_004515759.1	Scaffold221	18866	AA	TT	1946927690
SNP_P4_117799_25895	NW_004515759.1	Scaffold221	25895	GG	CC	1946927692
SNP_P4_117800_26376	NW_004515759.1	Scaffold221	26376	CC	TT	1946927694
SNP_P4_117801_43445	NW_004515759.1	Scaffold221	43445	AA	GG	1946927696
SNP_P4_117802_44677	NW_004515759.1	Scaffold221	44677	CC	AA	1946927698
SNP_P4_117803_52864	NW_004515759.1	Scaffold221	52864	AA	GG	1946927700
SNP_P4_117804_55317	NW_004515759.1	Scaffold221	55317	GG	CC	1946927702
SNP_P4_117805_55326	NW_004515759.1	Scaffold221	55326	GG	AA	1946927704
SNP_P4_117806_55335	NW_004515759.1	Scaffold221	55335	GG	AA	1946927706
SNP_P4_117807_55340	NW_004515759.1	Scaffold221	55340	AA	CC	1946927708
SNP_P4_117808_61219	NW_004515759.1	Scaffold221	61219	TT	CC	1946927710
SNP_P4_117809_61301	NW_004515759.1	Scaffold221	61301	CC	AA	1946927713
SNP_P4_117810_61306	NW_004515759.1	Scaffold221	61306	TT	CC	1946927715
SNP_P4_117812_61644	NW_004515759.1	Scaffold221	61644	AA	GG	1946927717
SNP_P4_117813_62907	NW_004515759.1	Scaffold221	62907	AA	GG	1946927719
SNP_P4_117814_62913	NW_004515759.1	Scaffold221	62913	TT	CC	1946927721
SNP_P4_117815_63025	NW_004515759.1	Scaffold221	63025	TT	CC	1946927723
SNP_P4_117816_65208	NW_004515759.1	Scaffold221	65208	GG	AA	1946927726
SNP_P4_117817_79331	NW_004515759.1	Scaffold221	79331	AA	CC	1946927728
SNP_P4_117818_81383	NW_004515759.1	Scaffold221	81383	TT	CC	1946927730
SNP_P4_117819_81406	NW_004515759.1	Scaffold221	81406	GG	TT	1946927732
SNP_P4_117820_81497	NW_004515759.1	Scaffold221	81497	TT	CC	1946927734
SNP_P4_117821_86854	NW_004515759.1	Scaffold221	86854	AA	GG	1946927736
SNP_P4_117822_86856	NW_004515759.1	Scaffold221	86856	CC	AA	1946927738
SNP_P4_117823_89421	NW_004515759.1	Scaffold221	89421	GG	CC	1946927740
SNP_P4_117824_89431	NW_004515759.1	Scaffold221	89431	CC	TT	1946927742
SNP_P4_117825_89460	NW_004515759.1	Scaffold221	89460	TT	GG	1946927744
SNP_P4_117826_92571	NW_004515759.1	Scaffold221	92571	CC	TT	1946927746
SNP_P4_117827_92573	NW_004515759.1	Scaffold221	92573	AA	GG	1946927748
SNP_P4_117828_94040	NW_004515759.1	Scaffold221	94040	AA	GG	1946927750
SNP_P4_117829_94049	NW_004515759.1	Scaffold221	94049	TT	CC	1946927752

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_117831_107584	NW_004515759.1	Scaffold221	107584	TT	CC	1946927754
SNP_P4_117832_109925	NW_004515759.1	Scaffold221	109925	CC	AA	1946927756
SNP_P4_117833_110034	NW_004515759.1	Scaffold221	110034	AA	GG	1946927758
SNP_P4_117834_110179	NW_004515759.1	Scaffold221	110179	AA	TT	1946927760
SNP_P4_117835_110186	NW_004515759.1	Scaffold221	110186	CC	TT	1946927762
SNP_P4_117836_110363	NW_004515759.1	Scaffold221	110363	TT	GG	1946927764
SNP_P4_117837_110364	NW_004515759.1	Scaffold221	110364	CC	AA	1946927766
SNP_P4_117838_110376	NW_004515759.1	Scaffold221	110376	GG	CC	1946927768
SNP_P4_117839_110459	NW_004515759.1	Scaffold221	110459	CC	AA	1946927770
SNP_P4_117840_35786	NW_004515760.1	Scaffold222	35786	AA	CC	1946927772
SNP_P4_117841_46729	NW_004515760.1	Scaffold222	46729	AA	GG	1946927774
SNP_P4_117842_46735	NW_004515760.1	Scaffold222	46735	AA	GG	1946927776
SNP_P4_117843_47168	NW_004515760.1	Scaffold222	47168	TT	CC	1946927778
SNP_P4_117844_47180	NW_004515760.1	Scaffold222	47180	GG	AA	1946927780
SNP_P4_117845_63625	NW_004515760.1	Scaffold222	63625	CC	TT	1946927782
SNP_P4_117846_65848	NW_004515760.1	Scaffold222	65848	AA	GG	1946927784
SNP_P4_117847_530	NW_004515761.1	Scaffold223	530	GG	TT	1946927786
SNP_P4_117849_28684	NW_004515761.1	Scaffold223	28684	AA	GG	1946927788
SNP_P4_117850_32800	NW_004515761.1	Scaffold223	32800	TT	GG	1946927790
SNP_P4_117851_36543	NW_004515761.1	Scaffold223	36543	TT	GG	1946927792
SNP_P4_117852_36639	NW_004515761.1	Scaffold223	36639	TT	AA	1946927794
SNP_P4_117853_40531	NW_004515761.1	Scaffold223	40531	TT	CC	1946927796
SNP_P4_117854_42098	NW_004515761.1	Scaffold223	42098	GG	AA	1946927798
SNP_P4_117856_50923	NW_004515761.1	Scaffold223	50923	AA	GG	1946927800
SNP_P4_117857_61172	NW_004515761.1	Scaffold223	61172	GG	AA	1946927802
SNP_P4_117859_67975	NW_004515761.1	Scaffold223	67975	AA	CC	1946927804
SNP_P4_117860_71754	NW_004515761.1	Scaffold223	71754	GG	AA	1946927806
SNP_P4_117861_78760	NW_004515761.1	Scaffold223	78760	CC	TT	1946927808
SNP_P4_117862_78851	NW_004515761.1	Scaffold223	78851	CC	TT	1946927810
SNP_P4_117863_81328	NW_004515761.1	Scaffold223	81328	CC	AA	1946927812
SNP_P4_117864_82186	NW_004515761.1	Scaffold223	82186	TT	AA	1946927814
SNP_P4_117865_87958	NW_004515761.1	Scaffold223	87958	AA	CC	1946927816
SNP_P4_117866_88432	NW_004515761.1	Scaffold223	88432	TT	AA	1946927818
SNP_P4_117867_95723	NW_004515761.1	Scaffold223	95723	CC	TT	1946927820
SNP_P4_117868_95859	NW_004515761.1	Scaffold223	95859	AA	CC	1946927821
SNP_P4_117869_95862	NW_004515761.1	Scaffold223	95862	AA	GG	1946927823
SNP_P4_117871_106609	NW_004515761.1	Scaffold223	106609	AA	CC	1946927825
SNP_P4_117873_144618	NW_004515761.1	Scaffold223	144618	TT	CC	1946927827
SNP_P4_117874_144663	NW_004515761.1	Scaffold223	144663	GG	TT	1946927829
SNP_P4_117875_149074	NW_004515761.1	Scaffold223	149074	AA	GG	1946927831
SNP_P4_117876_150281	NW_004515761.1	Scaffold223	150281	AA	GG	1946927833
SNP_P4_117878_152286	NW_004515761.1	Scaffold223	152286	CC	TT	1946927835

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_117881_152307	NW_004515761.1	Scaffold223	152307	GG	TT	1946927839
SNP_P4_117882_167788	NW_004515761.1	Scaffold223	167788	TT	CC	1946927841
SNP_P4_117883_170793	NW_004515761.1	Scaffold223	170793	CC	AA	1946927842
SNP_P4_117884_175051	NW_004515761.1	Scaffold223	175051	CC	AA	1946927844
SNP_P4_117885_180270	NW_004515761.1	Scaffold223	180270	AA	GG	1946927846
SNP_P4_117886_182153	NW_004515761.1	Scaffold223	182153	CC	TT	1946927848
SNP_P4_117887_182154	NW_004515761.1	Scaffold223	182154	TT	CC	1946927850
SNP_P4_117888_182192	NW_004515761.1	Scaffold223	182192	CC	TT	1946927852
SNP_P4_117889_182198	NW_004515761.1	Scaffold223	182198	TT	GG	1946927854
SNP_P4_117890_182257	NW_004515761.1	Scaffold223	182257	AA	TT	1946927856
SNP_P4_117891_802	NW_004515762.1	Scaffold224	802	TT	CC	1946927858
SNP_P4_117892_810	NW_004515762.1	Scaffold224	810	CC	TT	1946927860
SNP_P4_117893_847	NW_004515762.1	Scaffold224	847	GG	AA	1946927862
SNP_P4_117894_8154	NW_004515762.1	Scaffold224	8154	AA	GG	1946927864
SNP_P4_117895_8396	NW_004515762.1	Scaffold224	8396	AA	GG	1946927866
SNP_P4_117896_8475	NW_004515762.1	Scaffold224	8475	TT	CC	1946927867
SNP_P4_117897_20397	NW_004515762.1	Scaffold224	20397	CC	TT	1946927869
SNP_P4_117898_20412	NW_004515762.1	Scaffold224	20412	GG	AA	1946927871
SNP_P4_117899_20419	NW_004515762.1	Scaffold224	20419	AA	CC	1946927873
SNP_P4_117900_20428	NW_004515762.1	Scaffold224	20428	GG	AA	1946927875
SNP_P4_117901_20488	NW_004515762.1	Scaffold224	20488	CC	AA	1946927877
SNP_P4_117902_20499	NW_004515762.1	Scaffold224	20499	GG	AA	1946927879
SNP_P4_117903_20526	NW_004515762.1	Scaffold224	20526	TT	GG	1946927881
SNP_P4_117904_20677	NW_004515762.1	Scaffold224	20677	AA	GG	1946927883
SNP_P4_117905_20761	NW_004515762.1	Scaffold224	20761	CC	TT	1946927885
SNP_P4_117906_20878	NW_004515762.1	Scaffold224	20878	TT	CC	1946927887
SNP_P4_117907_20942	NW_004515762.1	Scaffold224	20942	GG	AA	1946927889
SNP_P4_117908_32731	NW_004515762.1	Scaffold224	32731	CC	TT	1946927891
SNP_P4_117909_32815	NW_004515762.1	Scaffold224	32815	CC	GG	1946927893
SNP_P4_117910_32871	NW_004515762.1	Scaffold224	32871	CC	AA	1946927895
SNP_P4_117911_34677	NW_004515762.1	Scaffold224	34677	TT	CC	1946927897
SNP_P4_117912_34698	NW_004515762.1	Scaffold224	34698	GG	AA	1946927899
SNP_P4_117913_34720	NW_004515762.1	Scaffold224	34720	GG	TT	1946927901
SNP_P4_117914_35184	NW_004515762.1	Scaffold224	35184	TT	CC	1946927903
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SNP_P4_117916_36204	NW_004515762.1	Scaffold224	36204	TT	AA	1946927907
SNP_P4_117917_36597	NW_004515762.1	Scaffold224	36597	AA	GG	1946927909
SNP_P4_117918_36598	NW_004515762.1	Scaffold224	36598	GG	CC	1946927911
SNP_P4_117919_36688	NW_004515762.1	Scaffold224	36688	TT	GG	1946927913
SNP_P4_117920_36692	NW_004515762.1	Scaffold224	36692	TT	GG	1946927915
SNP_P4_117921_36699	NW_004515762.1	Scaffold224	36699	CC	TT	1946927917

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_117923_37051	NW_004515762.1	Scaffold224	37051	AA	GG	1946927921
SNP_P4_117925_95291	NW_004515762.1	Scaffold224	95291	TT	CC	1946927923
SNP_P4_117926_95325	NW_004515762.1	Scaffold224	95325	GG	TT	1946927924
SNP_P4_117927_102849	NW_004515762.1	Scaffold224	102849	AA	GG	1946927926
SNP_P4_117928_102908	NW_004515762.1	Scaffold224	102908	TT	AA	1946927928
SNP_P4_117929_103040	NW_004515762.1	Scaffold224	103040	AA	GG	1946927931
SNP_P4_117930_103087	NW_004515762.1	Scaffold224	103087	CC	TT	1946927933
SNP_P4_117931_113887	NW_004515762.1	Scaffold224	113887	TT	GG	1946927935
SNP_P4_117932_132340	NW_004515762.1	Scaffold224	132340	GG	TT	1946927937
SNP_P4_117933_132343	NW_004515762.1	Scaffold224	132343	TT	CC	1946927939
SNP_P4_117934_151227	NW_004515762.1	Scaffold224	151227	AA	GG	1946927941
SNP_P4_117935_151237	NW_004515762.1	Scaffold224	151237	AA	GG	1946927943
SNP_P4_117936_151246	NW_004515762.1	Scaffold224	151246	TT	GG	1946927945
SNP_P4_117937_151250	NW_004515762.1	Scaffold224	151250	AA	GG	1946927946
SNP_P4_117938_152163	NW_004515762.1	Scaffold224	152163	AA	CC	1946927948
SNP_P4_117939_152179	NW_004515762.1	Scaffold224	152179	AA	TT	1946927950
SNP_P4_117940_152191	NW_004515762.1	Scaffold224	152191	AA	GG	1946927952
SNP_P4_117941_152192	NW_004515762.1	Scaffold224	152192	TT	AA	1946927954
SNP_P4_117942_152197	NW_004515762.1	Scaffold224	152197	GG	AA	1946927956
SNP_P4_117943_152228	NW_004515762.1	Scaffold224	152228	GG	CC	1946927958
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SNP_P4_117945_152251	NW_004515762.1	Scaffold224	152251	TT	AA	1946927962
SNP_P4_117946_152252	NW_004515762.1	Scaffold224	152252	TT	CC	1946927964
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SNP_P4_117950_152518	NW_004515762.1	Scaffold224	152518	AA	GG	1946927971
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SNP_P4_117952_152579	NW_004515762.1	Scaffold224	152579	AA	TT	1946927975
SNP_P4_117953_152595	NW_004515762.1	Scaffold224	152595	GG	AA	1946927977
SNP_P4_117954_152669	NW_004515762.1	Scaffold224	152669	AA	GG	1946927978
SNP_P4_117955_152676	NW_004515762.1	Scaffold224	152676	AA	GG	1946927980
SNP_P4_117956_152682	NW_004515762.1	Scaffold224	152682	AA	CC	1946927982
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SNP_P4_117958_161249	NW_004515762.1	Scaffold224	161249	CC	TT	1946927986
SNP_P4_117959_161257	NW_004515762.1	Scaffold224	161257	TT	GG	1946927988
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SNP_P4_117961_161320	NW_004515762.1	Scaffold224	161320	TT	CC	1946927992
SNP_P4_117962_161322	NW_004515762.1	Scaffold224	161322	AA	GG	1946927994
SNP_P4_117963_161324	NW_004515762.1	Scaffold224	161324	TT	CC	1946927996
SNP_P4_117964_161332	NW_004515762.1	Scaffold224	161332	TT	CC	1946927998

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_117967_161659	NW_004515762.1	Scaffold224	161659	TT	CC	1946928003
SNP_P4_117968_161683	NW_004515762.1	Scaffold224	161683	AA	GG	1946928005
SNP_P4_117969_161694	NW_004515762.1	Scaffold224	161694	CC	GG	1946928007
SNP_P4_117970_161752	NW_004515762.1	Scaffold224	161752	GG	TT	1946928009
SNP_P4_117971_165323	NW_004515762.1	Scaffold224	165323	AA	GG	1946928011
SNP_P4_117972_165328	NW_004515762.1	Scaffold224	165328	GG	TT	1946928013
SNP_P4_117973_165688	NW_004515762.1	Scaffold224	165688	CC	AA	1946928015
SNP_P4_117974_165715	NW_004515762.1	Scaffold224	165715	AA	GG	1946928017
SNP_P4_117975_165731	NW_004515762.1	Scaffold224	165731	TT	AA	1946928019
SNP_P4_117976_165736	NW_004515762.1	Scaffold224	165736	GG	CC	1946928021
SNP_P4_117977_165737	NW_004515762.1	Scaffold224	165737	TT	GG	1946928023
SNP_P4_117978_170544	NW_004515762.1	Scaffold224	170544	GG	AA	1946928025
SNP_P4_117979_170552	NW_004515762.1	Scaffold224	170552	GG	CC	1946928027
SNP_P4_117981_174896	NW_004515762.1	Scaffold224	174896	TT	CC	1946928029
SNP_P4_117982_174913	NW_004515762.1	Scaffold224	174913	TT	GG	1946928031
SNP_P4_117983_175202	NW_004515762.1	Scaffold224	175202	TT	GG	1946928033
SNP_P4_117984_176671	NW_004515762.1	Scaffold224	176671	TT	GG	1946928035
SNP_P4_117985_176739	NW_004515762.1	Scaffold224	176739	AA	CC	1946928037
SNP_P4_117986_178501	NW_004515762.1	Scaffold224	178501	TT	CC	1946928039
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SNP_P4_117989_180879	NW_004515762.1	Scaffold224	180879	TT	CC	1946928045
SNP_P4_117991_186113	NW_004515762.1	Scaffold224	186113	TT	AA	1946928047
SNP_P4_117992_186158	NW_004515762.1	Scaffold224	186158	AA	GG	1946928049
SNP_P4_117993_186187	NW_004515762.1	Scaffold224	186187	TT	CC	1946928051
SNP_P4_117994_186188	NW_004515762.1	Scaffold224	186188	GG	CC	1946928053
SNP_P4_117995_186225	NW_004515762.1	Scaffold224	186225	GG	TT	1946928055
SNP_P4_117996_186233	NW_004515762.1	Scaffold224	186233	TT	CC	1946928057
SNP_P4_117997_186235	NW_004515762.1	Scaffold224	186235	AA	GG	1946928060
SNP_P4_117998_186248	NW_004515762.1	Scaffold224	186248	AA	GG	1946928062
SNP_P4_117999_186254	NW_004515762.1	Scaffold224	186254	AA	GG	1946928064
SNP_P4_118000_186270	NW_004515762.1	Scaffold224	186270	AA	GG	1946928066
SNP_P4_118001_186289	NW_004515762.1	Scaffold224	186289	TT	GG	1946928068
SNP_P4_118002_186323	NW_004515762.1	Scaffold224	186323	AA	GG	1946928070
SNP_P4_118003_186356	NW_004515762.1	Scaffold224	186356	TT	CC	1946928072
SNP_P4_118004_186357	NW_004515762.1	Scaffold224	186357	AA	GG	1946928074
SNP_P4_118005_186371	NW_004515762.1	Scaffold224	186371	TT	CC	1946928076
SNP_P4_118006_186398	NW_004515762.1	Scaffold224	186398	AA	GG	1946928078
SNP_P4_118008_186490	NW_004515762.1	Scaffold224	186490	TT	CC	1946928080
SNP_P4_118009_186502	NW_004515762.1	Scaffold224	186502	TT	AA	1946928082

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_118011_186603	NW_004515762.1	Scaffold224	186603	AA	GG	1946928084
SNP_P4_118012_186619	NW_004515762.1	Scaffold224	186619	AA	GG	1946928086
SNP_P4_118013_186625	NW_004515762.1	Scaffold224	186625	TT	AA	1946928088
SNP_P4_118014_186789	NW_004515762.1	Scaffold224	186789	TT	CC	1946928090
SNP_P4_118015_198397	NW_004515762.1	Scaffold224	198397	AA	GG	1946928092
SNP_P4_118017_204225	NW_004515762.1	Scaffold224	204225	TT	GG	1946928094
SNP_P4_118018_204226	NW_004515762.1	Scaffold224	204226	TT	CC	1946928096
SNP_P4_118019_221395	NW_004515762.1	Scaffold224	221395	CC	GG	1946928098
SNP_P4_118020_260680	NW_004515762.1	Scaffold224	260680	AA	CC	1946928100
SNP_P4_118021_288442	NW_004515762.1	Scaffold224	288442	TT	AA	1946928102
SNP_P4_118022_288444	NW_004515762.1	Scaffold224	288444	TT	GG	1946928104
SNP_P4_118023_294209	NW_004515762.1	Scaffold224	294209	AA	GG	1946928106
SNP_P4_118024_294281	NW_004515762.1	Scaffold224	294281	CC	TT	1946928108
SNP_P4_118025_301817	NW_004515762.1	Scaffold224	301817	AA	GG	1946928110
SNP_P4_118026_5358	NW_004515763.1	Scaffold227	5358	GG	AA	1946928112
SNP_P4_118027_11880	NW_004515763.1	Scaffold227	11880	CC	TT	1946928114
SNP_P4_118028_12407	NW_004515763.1	Scaffold227	12407	AA	GG	1946928116
SNP_P4_118029_32610	NW_004515763.1	Scaffold227	32610	AA	TT	1946928118
SNP_P4_118032_59588	NW_004515763.1	Scaffold227	59588	TT	CC	1946928120
SNP_P4_118033_59907	NW_004515763.1	Scaffold227	59907	GG	AA	1946928122
SNP_P4_118034_59983	NW_004515763.1	Scaffold227	59983	AA	CC	1946928124
SNP_P4_118035_59986	NW_004515763.1	Scaffold227	59986	AA	CC	1946928126
SNP_P4_118036_73954	NW_004515763.1	Scaffold227	73954	TT	GG	1946928128
SNP_P4_118037_80425	NW_004515763.1	Scaffold227	80425	GG	AA	1946928130
SNP_P4_118038_80426	NW_004515763.1	Scaffold227	80426	TT	GG	1946928132
SNP_P4_118039_86520	NW_004515763.1	Scaffold227	86520	GG	TT	1946928135
SNP_P4_118040_100218	NW_004515763.1	Scaffold227	100218	AA	GG	1946928137
SNP_P4_118041_102857	NW_004515763.1	Scaffold227	102857	GG	AA	1946928139
SNP_P4_118042_106836	NW_004515763.1	Scaffold227	106836	CC	TT	1946928141
SNP_P4_118043_117332	NW_004515763.1	Scaffold227	117332	CC	TT	1946928143
SNP_P4_118044_134777	NW_004515763.1	Scaffold227	134777	TT	CC	1946928145
SNP_P4_118045_134778	NW_004515763.1	Scaffold227	134778	TT	CC	1946928147
SNP_P4_118046_134780	NW_004515763.1	Scaffold227	134780	TT	CC	1946928149
SNP_P4_118047_134791	NW_004515763.1	Scaffold227	134791	AA	GG	1946928151
SNP_P4_118048_134953	NW_004515763.1	Scaffold227	134953	AA	GG	1946928153
SNP_P4_118049_134956	NW_004515763.1	Scaffold227	134956	AA	GG	1946928155
SNP_P4_118050_134959	NW_004515763.1	Scaffold227	134959	TT	CC	1946928157
SNP_P4_118051_135004	NW_004515763.1	Scaffold227	135004	TT	AA	1946928159
SNP_P4_118052_135017	NW_004515763.1	Scaffold227	135017	AA	GG	1946928161
SNP_P4_118053_135387	NW_004515763.1	Scaffold227	135387	TT	GG	1946928163
SNP_P4_118054_135403	NW_004515763.1	Scaffold227	135403	AA	GG	1946928165
SNP_P4_118055_135408	NW_004515763.1	Scaffold227	135408	AA	CC	1946928167

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_118056_135409	NW_004515763.1	Scaffold227	135409	AA	GG	1946928169
SNP_P4_118057_135419	NW_004515763.1	Scaffold227	135419	TT	CC	1946928171
SNP_P4_118058_135455	NW_004515763.1	Scaffold227	135455	TT	CC	1946928173
SNP_P4_118060_135525	NW_004515763.1	Scaffold227	135525	AA	GG	1946928175
SNP_P4_118061_135532	NW_004515763.1	Scaffold227	135532	AA	CC	1946928177
SNP_P4_118062_136434	NW_004515763.1	Scaffold227	136434	GG	TT	1946928179
SNP_P4_118063_136507	NW_004515763.1	Scaffold227	136507	AA	GG	1946928181
SNP_P4_118064_136515	NW_004515763.1	Scaffold227	136515	AA	TT	1946928183
SNP_P4_118065_136528	NW_004515763.1	Scaffold227	136528	CC	GG	1946928185
SNP_P4_118066_136878	NW_004515763.1	Scaffold227	136878	TT	CC	1946928187
SNP_P4_118067_136917	NW_004515763.1	Scaffold227	136917	TT	AA	1946928189
SNP_P4_118068_136935	NW_004515763.1	Scaffold227	136935	TT	AA	1946928191
SNP_P4_118069_140527	NW_004515763.1	Scaffold227	140527	GG	AA	1946928193
SNP_P4_118070_140572	NW_004515763.1	Scaffold227	140572	AA	GG	1946928195
SNP_P4_118071_140577	NW_004515763.1	Scaffold227	140577	TT	CC	1946928197
SNP_P4_118072_140627	NW_004515763.1	Scaffold227	140627	AA	GG	1946928199
SNP_P4_118073_140884	NW_004515763.1	Scaffold227	140884	TT	AA	1946928201
SNP_P4_118074_140918	NW_004515763.1	Scaffold227	140918	AA	CC	1946928203
SNP_P4_118075_140921	NW_004515763.1	Scaffold227	140921	AA	CC	1946928205
SNP_P4_118076_140937	NW_004515763.1	Scaffold227	140937	AA	TT	1946928207
SNP_P4_118078_141016	NW_004515763.1	Scaffold227	141016	GG	TT	1946928209
SNP_P4_118079_141037	NW_004515763.1	Scaffold227	141037	TT	CC	1946928211
SNP_P4_118080_141068	NW_004515763.1	Scaffold227	141068	AA	GG	1946928213
SNP_P4_118081_141082	NW_004515763.1	Scaffold227	141082	TT	CC	1946928215
SNP_P4_118082_141164	NW_004515763.1	Scaffold227	141164	GG	AA	1946928217
SNP_P4_118083_141177	NW_004515763.1	Scaffold227	141177	TT	CC	1946928219
SNP_P4_118084_141207	NW_004515763.1	Scaffold227	141207	TT	AA	1946928221
SNP_P4_118085_141256	NW_004515763.1	Scaffold227	141256	TT	CC	1946928223
SNP_P4_118086_141333	NW_004515763.1	Scaffold227	141333	AA	GG	1946928225
SNP_P4_118087_141444	NW_004515763.1	Scaffold227	141444	TT	CC	1946928227
SNP_P4_118088_141461	NW_004515763.1	Scaffold227	141461	AA	GG	1946928229
SNP_P4_118089_141605	NW_004515763.1	Scaffold227	141605	CC	GG	1946928231
SNP_P4_118090_141609	NW_004515763.1	Scaffold227	141609	AA	GG	1946928233
SNP_P4_118091_141680	NW_004515763.1	Scaffold227	141680	GG	CC	1946928235
SNP_P4_118092_141685	NW_004515763.1	Scaffold227	141685	TT	CC	1946928237
SNP_P4_118093_142531	NW_004515763.1	Scaffold227	142531	TT	CC	1946928239
SNP_P4_118094_142547	NW_004515763.1	Scaffold227	142547	AA	GG	1946928241
SNP_P4_118095_142553	NW_004515763.1	Scaffold227	142553	AA	GG	1946928243
SNP_P4_118096_142564	NW_004515763.1	Scaffold227	142564	AA	CC	1946928245
SNP_P4_118097_142615	NW_004515763.1	Scaffold227	142615	AA	GG	1946928247
SNP_P4_118098_142923	NW_004515763.1	Scaffold227	142923	TT	CC	1946928249
SNP_P4_118099_142942	NW_004515763.1	Scaffold227	142942	AA	GG	1946928251

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_118100_142961	NW_004515763.1	Scaffold227	142961	TT	CC	1946928253
SNP_P4_118101_142981	NW_004515763.1	Scaffold227	142981	TT	CC	1946928255
SNP_P4_118102_143022	NW_004515763.1	Scaffold227	143022	AA	GG	1946928257
SNP_P4_118103_143030	NW_004515763.1	Scaffold227	143030	AA	TT	1946928259
SNP_P4_118105_143045	NW_004515763.1	Scaffold227	143045	TT	CC	1946928261
SNP_P4_118106_144233	NW_004515763.1	Scaffold227	144233	AA	GG	1946928263
SNP_P4_118107_144260	NW_004515763.1	Scaffold227	144260	TT	CC	1946928265
SNP_P4_118108_144291	NW_004515763.1	Scaffold227	144291	AA	GG	1946928267
SNP_P4_118109_144323	NW_004515763.1	Scaffold227	144323	TT	CC	1946928270
SNP_P4_118110_144360	NW_004515763.1	Scaffold227	144360	TT	AA	1946928272
SNP_P4_118111_144406	NW_004515763.1	Scaffold227	144406	TT	CC	1946928274
SNP_P4_118113_144514	NW_004515763.1	Scaffold227	144514	TT	CC	1946928276
SNP_P4_118114_144516	NW_004515763.1	Scaffold227	144516	AA	CC	1946928278
SNP_P4_118115_144525	NW_004515763.1	Scaffold227	144525	AA	CC	1946928280
SNP_P4_118116_144542	NW_004515763.1	Scaffold227	144542	AA	GG	1946928282
SNP_P4_118117_144561	NW_004515763.1	Scaffold227	144561	TT	CC	1946928284
SNP_P4_118118_144587	NW_004515763.1	Scaffold227	144587	AA	GG	1946928286
SNP_P4_118119_144602	NW_004515763.1	Scaffold227	144602	GG	AA	1946928288
SNP_P4_118120_144618	NW_004515763.1	Scaffold227	144618	AA	CC	1946928290
SNP_P4_118121_147205	NW_004515763.1	Scaffold227	147205	TT	GG	1946928292
SNP_P4_118122_148314	NW_004515763.1	Scaffold227	148314	GG	CC	1946928295
SNP_P4_118123_155205	NW_004515763.1	Scaffold227	155205	GG	AA	1946928297
SNP_P4_118124_161189	NW_004515763.1	Scaffold227	161189	AA	TT	1946928299
SNP_P4_118125_194745	NW_004515763.1	Scaffold227	194745	CC	TT	1946928301
SNP_P4_118126_194866	NW_004515763.1	Scaffold227	194866	GG	AA	1946928303
SNP_P4_118127_194901	NW_004515763.1	Scaffold227	194901	TT	CC	1946928305
SNP_P4_118128_195033	NW_004515763.1	Scaffold227	195033	GG	TT	1946928307
SNP_P4_118129_195072	NW_004515763.1	Scaffold227	195072	CC	AA	1946928309
SNP_P4_118130_195080	NW_004515763.1	Scaffold227	195080	AA	CC	1946928311
SNP_P4_118131_195088	NW_004515763.1	Scaffold227	195088	GG	AA	1946928313
SNP_P4_118132_195092	NW_004515763.1	Scaffold227	195092	TT	CC	1946928315
SNP_P4_118133_195149	NW_004515763.1	Scaffold227	195149	TT	GG	1946928317
SNP_P4_118134_195271	NW_004515763.1	Scaffold227	195271	AA	TT	1946928319
SNP_P4_118135_195431	NW_004515763.1	Scaffold227	195431	GG	TT	1946928321
SNP_P4_118136_195497	NW_004515763.1	Scaffold227	195497	CC	AA	1946928323
SNP_P4_118137_195547	NW_004515763.1	Scaffold227	195547	TT	CC	1946928325
SNP_P4_118138_195606	NW_004515763.1	Scaffold227	195606	AA	CC	1946928327
SNP_P4_118139_195667	NW_004515763.1	Scaffold227	195667	AA	GG	1946928329
SNP_P4_118141_195708	NW_004515763.1	Scaffold227	195708	TT	CC	1946928331
SNP_P4_118142_195725	NW_004515763.1	Scaffold227	195725	AA	GG	1946928333
SNP_P4_118143_195734	NW_004515763.1	Scaffold227	195734	CC	GG	1946928335
SNP_P4_118144_195790	NW_004515763.1	Scaffold227	195790	TT	AA	1946928337

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_118146_195936	NW_004515763.1	Scaffold227	195936	CC	TT	1946928341
SNP_P4_118147_195940	NW_004515763.1	Scaffold227	195940	AA	CC	1946928343
SNP_P4_118149_196012	NW_004515763.1	Scaffold227	196012	GG	AA	1946928345
SNP_P4_118150_196046	NW_004515763.1	Scaffold227	196046	TT	CC	1946928347
SNP_P4_118151_196089	NW_004515763.1	Scaffold227	196089	AA	GG	1946928349
SNP_P4_118152_196095	NW_004515763.1	Scaffold227	196095	AA	GG	1946928351
SNP_P4_118154_196157	NW_004515763.1	Scaffold227	196157	AA	GG	1946928353
SNP_P4_118155_196185	NW_004515763.1	Scaffold227	196185	AA	GG	1946928355
SNP_P4_118156_196193	NW_004515763.1	Scaffold227	196193	CC	TT	1946928357
SNP_P4_118157_196196	NW_004515763.1	Scaffold227	196196	CC	TT	1946928359
SNP_P4_118158_196228	NW_004515763.1	Scaffold227	196228	AA	CC	1946928361
SNP_P4_118160_196384	NW_004515763.1	Scaffold227	196384	TT	AA	1946928363
SNP_P4_118161_196445	NW_004515763.1	Scaffold227	196445	CC	TT	1946928365
SNP_P4_118162_196469	NW_004515763.1	Scaffold227	196469	TT	CC	1946928367
SNP_P4_118163_196496	NW_004515763.1	Scaffold227	196496	TT	CC	1946928369
SNP_P4_118164_196583	NW_004515763.1	Scaffold227	196583	GG	AA	1946928371
SNP_P4_118165_197139	NW_004515763.1	Scaffold227	197139	GG	AA	1946928373
SNP_P4_118166_197296	NW_004515763.1	Scaffold227	197296	GG	AA	1946928375
SNP_P4_118167_197349	NW_004515763.1	Scaffold227	197349	TT	CC	1946928377
SNP_P4_118168_197397	NW_004515763.1	Scaffold227	197397	TT	CC	1946928379
SNP_P4_118170_197493	NW_004515763.1	Scaffold227	197493	GG	AA	1946928381
SNP_P4_118171_197506	NW_004515763.1	Scaffold227	197506	CC	TT	1946928383
SNP_P4_118172_197552	NW_004515763.1	Scaffold227	197552	AA	TT	1946928385
SNP_P4_118173_197575	NW_004515763.1	Scaffold227	197575	CC	TT	1946928387
SNP_P4_118174_197615	NW_004515763.1	Scaffold227	197615	AA	CC	1946928389
SNP_P4_118175_197630	NW_004515763.1	Scaffold227	197630	AA	GG	1946928391
SNP_P4_118176_197633	NW_004515763.1	Scaffold227	197633	GG	AA	1946928393
SNP_P4_118177_197727	NW_004515763.1	Scaffold227	197727	CC	GG	1946928395
SNP_P4_118178_197730	NW_004515763.1	Scaffold227	197730	GG	TT	1946928397
SNP_P4_118179_197747	NW_004515763.1	Scaffold227	197747	CC	TT	1946928398
SNP_P4_118180_197792	NW_004515763.1	Scaffold227	197792	TT	AA	1946928400
SNP_P4_118181_197937	NW_004515763.1	Scaffold227	197937	GG	CC	1946928402
SNP_P4_118182_197954	NW_004515763.1	Scaffold227	197954	AA	GG	1946928404
SNP_P4_118183_197988	NW_004515763.1	Scaffold227	197988	CC	AA	1946928406
SNP_P4_118184_197989	NW_004515763.1	Scaffold227	197989	AA	GG	1946928408
SNP_P4_118185_197997	NW_004515763.1	Scaffold227	197997	AA	CC	1946928410
SNP_P4_118186_198003	NW_004515763.1	Scaffold227	198003	GG	CC	1946928412
SNP_P4_118187_198012	NW_004515763.1	Scaffold227	198012	AA	CC	1946928414
SNP_P4_118188_198046	NW_004515763.1	Scaffold227	198046	TT	CC	1946928416
SNP_P4_118189_198061	NW_004515763.1	Scaffold227	198061	CC	TT	1946928418
SNP_P4_118190_198137	NW_004515763.1	Scaffold227	198137	AA	GG	1946928420

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_118192_198185	NW_004515763.1	Scaffold227	198185	AA	CC	1946928424
SNP_P4_118193_198192	NW_004515763.1	Scaffold227	198192	GG	AA	1946928426
SNP_P4_118194_198214	NW_004515763.1	Scaffold227	198214	AA	GG	1946928428
SNP_P4_118195_207449	NW_004515763.1	Scaffold227	207449	CC	TT	1946928429
SNP_P4_118196_211220	NW_004515763.1	Scaffold227	211220	CC	TT	1946928431
SNP_P4_118197_225159	NW_004515763.1	Scaffold227	225159	GG	TT	1946928433
SNP_P4_118198_225173	NW_004515763.1	Scaffold227	225173	CC	TT	1946928435
SNP_P4_118200_238429	NW_004515763.1	Scaffold227	238429	AA	CC	1946928437
SNP_P4_118201_250991	NW_004515763.1	Scaffold227	250991	GG	AA	1946928439
SNP_P4_118202_314781	NW_004515763.1	Scaffold227	314781	TT	CC	1946928441
SNP_P4_118203_315113	NW_004515763.1	Scaffold227	315113	CC	TT	1946928443
SNP_P4_118204_315927	NW_004515763.1	Scaffold227	315927	CC	TT	1946928445
SNP_P4_118205_319231	NW_004515763.1	Scaffold227	319231	CC	TT	1946928447
SNP_P4_118206_326371	NW_004515763.1	Scaffold227	326371	CC	TT	1946928449
SNP_P4_118207_343204	NW_004515763.1	Scaffold227	343204	CC	TT	1946928451
SNP_P4_118208_343218	NW_004515763.1	Scaffold227	343218	CC	TT	1946928453
SNP_P4_118209_379522	NW_004515763.1	Scaffold227	379522	CC	TT	1946928455
SNP_P4_118210_379614	NW_004515763.1	Scaffold227	379614	CC	AA	1946928457
SNP_P4_118211_380673	NW_004515763.1	Scaffold227	380673	AA	GG	1946928460
SNP_P4_118212_383852	NW_004515763.1	Scaffold227	383852	GG	TT	1946928462
SNP_P4_118214_478	NW_004515764.1	Scaffold228	478	AA	TT	1946928465
SNP_P4_118215_4616	NW_004515764.1	Scaffold228	4616	CC	TT	1946928467
SNP_P4_118216_4630	NW_004515764.1	Scaffold228	4630	AA	CC	1946928469
SNP_P4_118217_9637	NW_004515764.1	Scaffold228	9637	TT	GG	1946928471
SNP_P4_118219_18729	NW_004515764.1	Scaffold228	18729	GG	TT	1946928474
SNP_P4_118220_19633	NW_004515764.1	Scaffold228	19633	AA	CC	1946928476
SNP_P4_118221_19638	NW_004515764.1	Scaffold228	19638	AA	CC	1946928478
SNP_P4_118222_19937	NW_004515764.1	Scaffold228	19937	AA	TT	1946928480
SNP_P4_118223_19946	NW_004515764.1	Scaffold228	19946	CC	AA	1946928482
SNP_P4_118224_19950	NW_004515764.1	Scaffold228	19950	AA	GG	1946928484
SNP_P4_118225_26046	NW_004515764.1	Scaffold228	26046	GG	AA	1946928486
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SNP_P4_118227_56431	NW_004515764.1	Scaffold228	56431	GG	AA	1946928490
SNP_P4_118228_64615	NW_004515764.1	Scaffold228	64615	GG	CC	1946928492
SNP_P4_118229_64646	NW_004515764.1	Scaffold228	64646	AA	GG	1946928494
SNP_P4_118230_64707	NW_004515764.1	Scaffold228	64707	TT	CC	1946928496
SNP_P4_118231_64709	NW_004515764.1	Scaffold228	64709	GG	TT	1946928498
SNP_P4_118232_64716	NW_004515764.1	Scaffold228	64716	CC	TT	1946928500
SNP_P4_118233_64741	NW_004515764.1	Scaffold228	64741	AA	TT	1946928502
SNP_P4_118234_80106	NW_004515764.1	Scaffold228	80106	TT	CC	1946928504
SNP_P4_118235_80393	NW_004515764.1	Scaffold228	80393	GG	AA	1946928506

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_118236_94196	NW_004515764.1	Scaffold228	94196	TT	CC	1946928508
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SNP_P4_118238_94216	NW_004515764.1	Scaffold228	94216	GG	TT	1946928512
SNP_P4_118239_99535	NW_004515764.1	Scaffold228	99535	CC	GG	1946928514
SNP_P4_118240_99546	NW_004515764.1	Scaffold228	99546	TT	CC	1946928516
SNP_P4_118241_99563	NW_004515764.1	Scaffold228	99563	GG	AA	1946928518
SNP_P4_118242_99579	NW_004515764.1	Scaffold228	99579	GG	AA	1946928520
SNP_P4_118243_99607	NW_004515764.1	Scaffold228	99607	AA	GG	1946928522
SNP_P4_118244_99614	NW_004515764.1	Scaffold228	99614	GG	TT	1946928524
SNP_P4_118245_99617	NW_004515764.1	Scaffold228	99617	CC	TT	1946928526
SNP_P4_118246_102878	NW_004515764.1	Scaffold228	102878	CC	TT	1946928528
SNP_P4_118247_103295	NW_004515764.1	Scaffold228	103295	TT	GG	1946928530
SNP_P4_118248_106098	NW_004515764.1	Scaffold228	106098	AA	GG	1946928532
SNP_P4_118250_106512	NW_004515764.1	Scaffold228	106512	AA	GG	1946928534
SNP_P4_118251_106542	NW_004515764.1	Scaffold228	106542	GG	TT	1946928536
SNP_P4_118252_106563	NW_004515764.1	Scaffold228	106563	TT	CC	1946928538
SNP_P4_118253_108982	NW_004515764.1	Scaffold228	108982	TT	GG	1946928540
SNP_P4_118254_109014	NW_004515764.1	Scaffold228	109014	TT	CC	1946928542
SNP_P4_118255_109023	NW_004515764.1	Scaffold228	109023	AA	GG	1946928544
SNP_P4_118256_109108	NW_004515764.1	Scaffold228	109108	GG	TT	1946928546
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SNP_P4_118259_110358	NW_004515764.1	Scaffold228	110358	TT	AA	1946928552
SNP_P4_118260_114517	NW_004515764.1	Scaffold228	114517	TT	CC	1946928554
SNP_P4_118261_114520	NW_004515764.1	Scaffold228	114520	AA	CC	1946928556
SNP_P4_118262_117125	NW_004515764.1	Scaffold228	117125	TT	CC	1946928558
SNP_P4_118263_117411	NW_004515764.1	Scaffold228	117411	TT	CC	1946928560
SNP_P4_118264_117431	NW_004515764.1	Scaffold228	117431	AA	GG	1946928562
SNP_P4_118265_117653	NW_004515764.1	Scaffold228	117653	TT	CC	1946928564
SNP_P4_118266_117740	NW_004515764.1	Scaffold228	117740	GG	AA	1946928566
SNP_P4_118267_117755	NW_004515764.1	Scaffold228	117755	TT	CC	1946928568
SNP_P4_118268_117759	NW_004515764.1	Scaffold228	117759	CC	TT	1946928570
SNP_P4_118269_117853	NW_004515764.1	Scaffold228	117853	TT	GG	1946928572
SNP_P4_118270_117892	NW_004515764.1	Scaffold228	117892	TT	CC	1946928574
SNP_P4_118271_118129	NW_004515764.1	Scaffold228	118129	TT	AA	1946928576
SNP_P4_118272_121460	NW_004515764.1	Scaffold228	121460	TT	AA	1946928578
SNP_P4_118273_121469	NW_004515764.1	Scaffold228	121469	CC	TT	1946928580
SNP_P4_118274_121976	NW_004515764.1	Scaffold228	121976	AA	TT	1946928582
SNP_P4_118275_122053	NW_004515764.1	Scaffold228	122053	CC	TT	1946928584
SNP_P4_118276_122102	NW_004515764.1	Scaffold228	122102	TT	AA	1946928586
SNP_P4_118277_122206	NW_004515764.1	Scaffold228	122206	TT	CC	1946928588
SNP_P4_118278_122232	NW_004515764.1	Scaffold228	122232	CC	GG	1946928590

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_118281_132554	NW_004515764.1	Scaffold228	132554	GG	CC	1946928596
SNP_P4_118282_132565	NW_004515764.1	Scaffold228	132565	TT	GG	1946928598
SNP_P4_118283_134072	NW_004515764.1	Scaffold228	134072	TT	AA	1946928600
SNP_P4_118284_134637	NW_004515764.1	Scaffold228	134637	AA	TT	1946928602
SNP_P4_118285_134736	NW_004515764.1	Scaffold228	134736	AA	TT	1946928604
SNP_P4_118286_134747	NW_004515764.1	Scaffold228	134747	CC	TT	1946928606
SNP_P4_118287_134758	NW_004515764.1	Scaffold228	134758	TT	CC	1946928609
SNP_P4_118288_134883	NW_004515764.1	Scaffold228	134883	TT	CC	1946928611
SNP_P4_118289_134913	NW_004515764.1	Scaffold228	134913	AA	GG	1946928613
SNP_P4_118290_135074	NW_004515764.1	Scaffold228	135074	TT	AA	1946928615
SNP_P4_118291_135089	NW_004515764.1	Scaffold228	135089	CC	TT	1946928616
SNP_P4_118292_135109	NW_004515764.1	Scaffold228	135109	CC	TT	1946928618
SNP_P4_118294_136880	NW_004515764.1	Scaffold228	136880	AA	CC	1946928620
SNP_P4_118295_144135	NW_004515764.1	Scaffold228	144135	TT	GG	1946928622
SNP_P4_118296_144220	NW_004515764.1	Scaffold228	144220	GG	AA	1946928624
SNP_P4_118297_144229	NW_004515764.1	Scaffold228	144229	GG	TT	1946928626
SNP_P4_118298_146868	NW_004515764.1	Scaffold228	146868	GG	AA	1946928628
SNP_P4_118299_147194	NW_004515764.1	Scaffold228	147194	TT	CC	1946928630
SNP_P4_118300_147239	NW_004515764.1	Scaffold228	147239	CC	GG	1946928632
SNP_P4_118301_147364	NW_004515764.1	Scaffold228	147364	AA	TT	1946928634
SNP_P4_118302_147575	NW_004515764.1	Scaffold228	147575	CC	TT	1946928636
SNP_P4_118303_148584	NW_004515764.1	Scaffold228	148584	CC	TT	1946928638
SNP_P4_118304_148585	NW_004515764.1	Scaffold228	148585	CC	GG	1946928640
SNP_P4_118305_148593	NW_004515764.1	Scaffold228	148593	AA	GG	1946928642
SNP_P4_118306_148598	NW_004515764.1	Scaffold228	148598	AA	TT	1946928644
SNP_P4_118307_148623	NW_004515764.1	Scaffold228	148623	AA	TT	1946928646
SNP_P4_118308_149616	NW_004515764.1	Scaffold228	149616	AA	CC	1946928648
SNP_P4_118309_149806	NW_004515764.1	Scaffold228	149806	TT	CC	1946928650
SNP_P4_118310_149811	NW_004515764.1	Scaffold228	149811	GG	CC	1946928652
SNP_P4_118311_149927	NW_004515764.1	Scaffold228	149927	TT	CC	1946928654
SNP_P4_118312_150254	NW_004515764.1	Scaffold228	150254	AA	GG	1946928656
SNP_P4_118313_150336	NW_004515764.1	Scaffold228	150336	AA	TT	1946928658
SNP_P4_118314_153543	NW_004515764.1	Scaffold228	153543	TT	CC	1946928660
SNP_P4_118315_155091	NW_004515764.1	Scaffold228	155091	TT	CC	1946928662
SNP_P4_118316_155571	NW_004515764.1	Scaffold228	155571	AA	TT	1946928664
SNP_P4_118317_155720	NW_004515764.1	Scaffold228	155720	CC	TT	1946928666
SNP_P4_118318_155721	NW_004515764.1	Scaffold228	155721	GG	AA	1946928668
SNP_P4_118319_155774	NW_004515764.1	Scaffold228	155774	TT	CC	1946928670
SNP_P4_118320_155959	NW_004515764.1	Scaffold228	155959	AA	GG	1946928672
SNP_P4_118321_155967	NW_004515764.1	Scaffold228	155967	AA	CC	1946928674

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_118324_158372	NW_004515764.1	Scaffold228	158372	AA	CC	1946928680
SNP_P4_118325_164607	NW_004515764.1	Scaffold228	164607	GG	AA	1946928682
SNP_P4_118326_164612	NW_004515764.1	Scaffold228	164612	GG	CC	1946928684
SNP_P4_118327_164637	NW_004515764.1	Scaffold228	164637	TT	CC	1946928686
SNP_P4_118328_164733	NW_004515764.1	Scaffold228	164733	AA	TT	1946928688
SNP_P4_118329_164800	NW_004515764.1	Scaffold228	164800	CC	TT	1946928690
SNP_P4_118330_164801	NW_004515764.1	Scaffold228	164801	CC	AA	1946928692
SNP_P4_118331_164805	NW_004515764.1	Scaffold228	164805	GG	AA	1946928694
SNP_P4_118332_164891	NW_004515764.1	Scaffold228	164891	CC	TT	1946928696
SNP_P4_118333_164908	NW_004515764.1	Scaffold228	164908	CC	TT	1946928698
SNP_P4_118334_164910	NW_004515764.1	Scaffold228	164910	AA	GG	1946928700
SNP_P4_118335_164932	NW_004515764.1	Scaffold228	164932	GG	TT	1946928702
SNP_P4_118336_164936	NW_004515764.1	Scaffold228	164936	AA	GG	1946928704
SNP_P4_118337_165013	NW_004515764.1	Scaffold228	165013	AA	GG	1946928706
SNP_P4_118338_165049	NW_004515764.1	Scaffold228	165049	AA	GG	1946928708
SNP_P4_118339_165208	NW_004515764.1	Scaffold228	165208	CC	TT	1946928710
SNP_P4_118340_165240	NW_004515764.1	Scaffold228	165240	AA	GG	1946928712
SNP_P4_118341_174503	NW_004515764.1	Scaffold228	174503	AA	TT	1946928714
SNP_P4_118342_174526	NW_004515764.1	Scaffold228	174526	TT	AA	1946928716
SNP_P4_118343_175266	NW_004515764.1	Scaffold228	175266	AA	TT	1946928718
SNP_P4_118344_176157	NW_004515764.1	Scaffold228	176157	CC	TT	1946928720
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SNP_P4_118346_176178	NW_004515764.1	Scaffold228	176178	GG	AA	1946928724
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SNP_P4_118352_177650	NW_004515764.1	Scaffold228	177650	TT	CC	1946928736
SNP_P4_118353_177819	NW_004515764.1	Scaffold228	177819	AA	GG	1946928738
SNP_P4_118354_177974	NW_004515764.1	Scaffold228	177974	GG	CC	1946928740
SNP_P4_118355_177977	NW_004515764.1	Scaffold228	177977	GG	AA	1946928742
SNP_P4_118356_178008	NW_004515764.1	Scaffold228	178008	CC	TT	1946928744
SNP_P4_118357_178032	NW_004515764.1	Scaffold228	178032	CC	AA	1946928746
SNP_P4_118358_178072	NW_004515764.1	Scaffold228	178072	GG	AA	1946928748
SNP_P4_118359_178123	NW_004515764.1	Scaffold228	178123	CC	TT	1946928750
SNP_P4_118360_178147	NW_004515764.1	Scaffold228	178147	GG	AA	1946928752
SNP_P4_118361_178228	NW_004515764.1	Scaffold228	178228	AA	GG	1946928754
SNP_P4_118362_179315	NW_004515764.1	Scaffold228	179315	TT	CC	1946928756
SNP_P4_118363_179320	NW_004515764.1	Scaffold228	179320	AA	GG	1946928758

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_118365_179503	NW_004515764.1	Scaffold228	179503	TT	CC	1946928762
SNP_P4_118366_179545	NW_004515764.1	Scaffold228	179545	GG	CC	1946928764
SNP_P4_118367_179636	NW_004515764.1	Scaffold228	179636	TT	CC	1946928766
SNP_P4_118368_179669	NW_004515764.1	Scaffold228	179669	AA	TT	1946928768
SNP_P4_118369_179820	NW_004515764.1	Scaffold228	179820	CC	AA	1946928770
SNP_P4_118370_180110	NW_004515764.1	Scaffold228	180110	TT	GG	1946928772
SNP_P4_118371_180164	NW_004515764.1	Scaffold228	180164	AA	GG	1946928774
SNP_P4_118372_180786	NW_004515764.1	Scaffold228	180786	TT	CC	1946928776
SNP_P4_118374_183172	NW_004515764.1	Scaffold228	183172	GG	CC	1946928778
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SNP_P4_118376_183361	NW_004515764.1	Scaffold228	183361	TT	CC	1946928782
SNP_P4_118377_183488	NW_004515764.1	Scaffold228	183488	CC	TT	1946928784
SNP_P4_118378_184357	NW_004515764.1	Scaffold228	184357	CC	AA	1946928786
SNP_P4_118379_184374	NW_004515764.1	Scaffold228	184374	AA	GG	1946928788
SNP_P4_118380_184391	NW_004515764.1	Scaffold228	184391	AA	TT	1946928790
SNP_P4_118381_184695	NW_004515764.1	Scaffold228	184695	AA	GG	1946928792
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SNP_P4_118392_187911	NW_004515764.1	Scaffold228	187911	GG	AA	1946928815
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SNP_P4_118396_188553	NW_004515764.1	Scaffold228	188553	CC	TT	1946928824
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SNP_P4_118399_188744	NW_004515764.1	Scaffold228	188744	CC	GG	1946928832
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SNP_P4_118402_189010	NW_004515764.1	Scaffold228	189010	GG	TT	1946928840
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SNP_P4_118404_189018	NW_004515764.1	Scaffold228	189018	CC	AA	1946928845
SNP_P4_118405_189143	NW_004515764.1	Scaffold228	189143	TT	GG	1946928848
SNP_P4_118406_189159	NW_004515764.1	Scaffold228	189159	GG	AA	1946928850

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_118409_189181	NW_004515764.1	Scaffold228	189181	CC	TT	1946928857
SNP_P4_118410_189203	NW_004515764.1	Scaffold228	189203	AA	TT	1946928859
SNP_P4_118411_189372	NW_004515764.1	Scaffold228	189372	TT	CC	1946928861
SNP_P4_118412_189634	NW_004515764.1	Scaffold228	189634	TT	AA	1946928863
SNP_P4_118413_189647	NW_004515764.1	Scaffold228	189647	AA	GG	1946928865
SNP_P4_118414_193506	NW_004515764.1	Scaffold228	193506	GG	AA	1946928867
SNP_P4_118417_16547	NW_004515765.1	Scaffold229	16547	TT	CC	1946928869
SNP_P4_118418_16555	NW_004515765.1	Scaffold229	16555	AA	TT	1946928871
SNP_P4_118419_17878	NW_004515765.1	Scaffold229	17878	CC	TT	1946928873
SNP_P4_118420_17879	NW_004515765.1	Scaffold229	17879	AA	GG	1946928875
SNP_P4_118421_17880	NW_004515765.1	Scaffold229	17880	CC	AA	1946928878
SNP_P4_118422_17883	NW_004515765.1	Scaffold229	17883	CC	TT	1946928880
SNP_P4_118423_19885	NW_004515765.1	Scaffold229	19885	GG	AA	1946928882
SNP_P4_118424_30886	NW_004515765.1	Scaffold229	30886	AA	GG	1946928884
SNP_P4_118425_33781	NW_004515765.1	Scaffold229	33781	AA	GG	1946928886
SNP_P4_118426_36757	NW_004515765.1	Scaffold229	36757	TT	AA	1946928888
SNP_P4_118427_37095	NW_004515765.1	Scaffold229	37095	GG	CC	1946928890
SNP_P4_118428_37419	NW_004515765.1	Scaffold229	37419	AA	GG	1946928892
SNP_P4_118429_40762	NW_004515765.1	Scaffold229	40762	TT	CC	1946928894
SNP_P4_118430_47419	NW_004515765.1	Scaffold229	47419	CC	TT	1946928896
SNP_P4_118431_47435	NW_004515765.1	Scaffold229	47435	AA	CC	1946928898
SNP_P4_118432_47442	NW_004515765.1	Scaffold229	47442	GG	CC	1946928900
SNP_P4_118433_47482	NW_004515765.1	Scaffold229	47482	GG	TT	1946928903
SNP_P4_118434_47686	NW_004515765.1	Scaffold229	47686	TT	AA	1946928905
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SNP_P4_118436_47720	NW_004515765.1	Scaffold229	47720	GG	AA	1946928909
SNP_P4_118437_47758	NW_004515765.1	Scaffold229	47758	AA	TT	1946928911
SNP_P4_118438_48728	NW_004515765.1	Scaffold229	48728	TT	AA	1946928913
SNP_P4_118440_53158	NW_004515765.1	Scaffold229	53158	CC	TT	1946928915
SNP_P4_118441_54603	NW_004515765.1	Scaffold229	54603	AA	CC	1946928917
SNP_P4_118442_75572	NW_004515765.1	Scaffold229	75572	AA	GG	1946928919
SNP_P4_118443_75588	NW_004515765.1	Scaffold229	75588	GG	AA	1946928921
SNP_P4_118444_76786	NW_004515765.1	Scaffold229	76786	GG	CC	1946928923
SNP_P4_118445_78581	NW_004515765.1	Scaffold229	78581	CC	AA	1946928925
SNP_P4_118446_82015	NW_004515765.1	Scaffold229	82015	AA	CC	1946928927
SNP_P4_118447_82018	NW_004515765.1	Scaffold229	82018	TT	CC	1946928930
SNP_P4_118448_82356	NW_004515765.1	Scaffold229	82356	AA	GG	1946928932
SNP_P4_118449_82556	NW_004515765.1	Scaffold229	82556	CC	GG	1946928934
SNP_P4_118450_82568	NW_004515765.1	Scaffold229	82568	AA	CC	1946928936
SNP_P4_118451_82625	NW_004515765.1	Scaffold229	82625	AA	CC	1946928938

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_118453_84081	NW_004515765.1	Scaffold229	84081	TT	AA	1946928942
SNP_P4_118454_84094	NW_004515765.1	Scaffold229	84094	CC	TT	1946928944
SNP_P4_118455_85147	NW_004515765.1	Scaffold229	85147	AA	TT	1946928946
SNP_P4_118457_87462	NW_004515765.1	Scaffold229	87462	AA	GG	1946928948
SNP_P4_118458_91083	NW_004515765.1	Scaffold229	91083	GG	TT	1946928950
SNP_P4_118459_97275	NW_004515765.1	Scaffold229	97275	AA	TT	1946928952
SNP_P4_118460_97594	NW_004515765.1	Scaffold229	97594	CC	TT	1946928954
SNP_P4_118461_97729	NW_004515765.1	Scaffold229	97729	GG	AA	1946928956
SNP_P4_118462_97864	NW_004515765.1	Scaffold229	97864	AA	CC	1946928958
SNP_P4_118463_97876	NW_004515765.1	Scaffold229	97876	GG	AA	1946928960
SNP_P4_118464_102854	NW_004515765.1	Scaffold229	102854	AA	GG	1946928962
SNP_P4_118465_102858	NW_004515765.1	Scaffold229	102858	CC	AA	1946928964
SNP_P4_118466_102931	NW_004515765.1	Scaffold229	102931	TT	CC	1946928966
SNP_P4_118467_106318	NW_004515765.1	Scaffold229	106318	TT	AA	1946928968
SNP_P4_118468_106322	NW_004515765.1	Scaffold229	106322	AA	GG	1946928970
SNP_P4_118469_106327	NW_004515765.1	Scaffold229	106327	TT	GG	1946928972
SNP_P4_118470_106337	NW_004515765.1	Scaffold229	106337	AA	CC	1946928974
SNP_P4_118471_106378	NW_004515765.1	Scaffold229	106378	AA	TT	1946928976
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SNP_P4_118473_106381	NW_004515765.1	Scaffold229	106381	GG	AA	1946928980
SNP_P4_118474_106392	NW_004515765.1	Scaffold229	106392	GG	AA	1946928982
SNP_P4_118475_114146	NW_004515765.1	Scaffold229	114146	GG	AA	1946928984
SNP_P4_118476_114148	NW_004515765.1	Scaffold229	114148	AA	GG	1946928986
SNP_P4_118477_114183	NW_004515765.1	Scaffold229	114183	TT	CC	1946928988
SNP_P4_118478_114636	NW_004515765.1	Scaffold229	114636	CC	GG	1946928990
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SNP_P4_118480_114645	NW_004515765.1	Scaffold229	114645	TT	GG	1946928994
SNP_P4_118481_114875	NW_004515765.1	Scaffold229	114875	AA	CC	1946928996
SNP_P4_118482_126674	NW_004515765.1	Scaffold229	126674	GG	TT	1946928998
SNP_P4_118483_140330	NW_004515765.1	Scaffold229	140330	AA	GG	1946929000
SNP_P4_118484_140333	NW_004515765.1	Scaffold229	140333	AA	CC	1946929003
SNP_P4_118485_140343	NW_004515765.1	Scaffold229	140343	CC	AA	1946929005
SNP_P4_118486_143195	NW_004515765.1	Scaffold229	143195	AA	TT	1946929007
SNP_P4_118487_153326	NW_004515765.1	Scaffold229	153326	CC	TT	1946929009
SNP_P4_118488_155389	NW_004515765.1	Scaffold229	155389	AA	GG	1946929011
SNP_P4_118489_156642	NW_004515765.1	Scaffold229	156642	CC	AA	1946929014
SNP_P4_118490_157874	NW_004515765.1	Scaffold229	157874	GG	AA	1946929016
SNP_P4_118491_160454	NW_004515765.1	Scaffold229	160454	GG	TT	1946929018
SNP_P4_118492_160660	NW_004515765.1	Scaffold229	160660	TT	AA	1946929020
SNP_P4_118493_160701	NW_004515765.1	Scaffold229	160701	TT	CC	1946929022
SNP_P4_118494_518	NW_004515766.1	Scaffold231	518	GG	TT	1946929024

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_118496_5185	NW_004515766.1	Scaffold231	5185	TT	CC	1946929028
SNP_P4_118497_10324	NW_004515766.1	Scaffold231	10324	CC	TT	1946929030
SNP_P4_118498_10331	NW_004515766.1	Scaffold231	10331	CC	GG	1946929032
SNP_P4_118499_10428	NW_004515766.1	Scaffold231	10428	TT	AA	1946929034
SNP_P4_118500_10441	NW_004515766.1	Scaffold231	10441	TT	CC	1946929036
SNP_P4_118501_10442	NW_004515766.1	Scaffold231	10442	GG	AA	1946929038
SNP_P4_118502_10539	NW_004515766.1	Scaffold231	10539	TT	CC	1946929040
SNP_P4_118503_10555	NW_004515766.1	Scaffold231	10555	CC	TT	1946929042
SNP_P4_118504_10562	NW_004515766.1	Scaffold231	10562	CC	AA	1946929044
SNP_P4_118505_17490	NW_004515766.1	Scaffold231	17490	AA	TT	1946929046
SNP_P4_118506_17502	NW_004515766.1	Scaffold231	17502	AA	GG	1946929048
SNP_P4_118507_17680	NW_004515766.1	Scaffold231	17680	AA	GG	1946929051
SNP_P4_118509_23900	NW_004515766.1	Scaffold231	23900	CC	TT	1946929053
SNP_P4_118510_25181	NW_004515766.1	Scaffold231	25181	TT	AA	1946929055
SNP_P4_118511_25318	NW_004515766.1	Scaffold231	25318	CC	TT	1946929057
SNP_P4_118512_25457	NW_004515766.1	Scaffold231	25457	TT	CC	1946929059
SNP_P4_118513_25464	NW_004515766.1	Scaffold231	25464	AA	GG	1946929061
SNP_P4_118514_27870	NW_004515766.1	Scaffold231	27870	GG	AA	1946929063
SNP_P4_118515_26428	NW_004515769.1	Scaffold235	26428	AA	GG	1946929065
SNP_P4_118516_26807	NW_004515769.1	Scaffold235	26807	TT	CC	1946929067
SNP_P4_118517_41785	NW_004515769.1	Scaffold235	41785	TT	AA	1946929069
SNP_P4_118518_41796	NW_004515769.1	Scaffold235	41796	AA	GG	1946929071
SNP_P4_118519_41803	NW_004515769.1	Scaffold235	41803	GG	TT	1946929073
SNP_P4_118520_42146	NW_004515769.1	Scaffold235	42146	CC	AA	1946929075
SNP_P4_118521_46029	NW_004515769.1	Scaffold235	46029	AA	GG	1946929077
SNP_P4_118522_47067	NW_004515769.1	Scaffold235	47067	AA	CC	1946929079
SNP_P4_118523_47146	NW_004515769.1	Scaffold235	47146	AA	GG	1946929081
SNP_P4_118524_47181	NW_004515769.1	Scaffold235	47181	AA	TT	1946929083
SNP_P4_118525_47197	NW_004515769.1	Scaffold235	47197	TT	AA	1946929085
SNP_P4_118526_47329	NW_004515769.1	Scaffold235	47329	AA	TT	1946929087
SNP_P4_118527_47544	NW_004515769.1	Scaffold235	47544	AA	GG	1946929089
SNP_P4_118528_48003	NW_004515769.1	Scaffold235	48003	CC	TT	1946929091
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SNP_P4_118530_48269	NW_004515769.1	Scaffold235	48269	AA	CC	1946929095
SNP_P4_118531_48289	NW_004515769.1	Scaffold235	48289	AA	CC	1946929097
SNP_P4_118532_48296	NW_004515769.1	Scaffold235	48296	TT	AA	1946929099
SNP_P4_118533_48321	NW_004515769.1	Scaffold235	48321	TT	AA	1946929101
SNP_P4_118536_60207	NW_004515769.1	Scaffold235	60207	TT	CC	1946929103
SNP_P4_118537_60528	NW_004515769.1	Scaffold235	60528	TT	CC	1946929105
SNP_P4_118538_64755	NW_004515769.1	Scaffold235	64755	AA	GG	1946929107
SNP_P4_118539_64760	NW_004515769.1	Scaffold235	64760	GG	AA	1946929109

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_118541_65142	NW_004515769.1	Scaffold235	65142	AA	GG	1946929113
SNP_P4_118542_97829	NW_004515769.1	Scaffold235	97829	GG	CC	1946929115
SNP_P4_118543_101181	NW_004515769.1	Scaffold235	101181	GG	AA	1946929117
SNP_P4_118544_101259	NW_004515769.1	Scaffold235	101259	GG	AA	1946929119
SNP_P4_118546_145148	NW_004515769.1	Scaffold235	145148	TT	CC	1946929121
SNP_P4_118548_146265	NW_004515769.1	Scaffold235	146265	GG	AA	1946929123
SNP_P4_118549_146314	NW_004515769.1	Scaffold235	146314	CC	TT	1946929125
SNP_P4_118550_149134	NW_004515769.1	Scaffold235	149134	GG	AA	1946929127
SNP_P4_118551_159696	NW_004515769.1	Scaffold235	159696	TT	GG	1946929129
SNP_P4_118552_159738	NW_004515769.1	Scaffold235	159738	TT	AA	1946929131
SNP_P4_118553_161435	NW_004515769.1	Scaffold235	161435	GG	AA	1946929133
SNP_P4_118554_171833	NW_004515769.1	Scaffold235	171833	AA	GG	1946929135
SNP_P4_118555_178596	NW_004515769.1	Scaffold235	178596	CC	TT	1946929137
SNP_P4_118556_192152	NW_004515769.1	Scaffold235	192152	GG	AA	1946929139
SNP_P4_118557_205225	NW_004515769.1	Scaffold235	205225	CC	TT	1946929141
SNP_P4_118558_205257	NW_004515769.1	Scaffold235	205257	GG	AA	1946929143
SNP_P4_118559_205288	NW_004515769.1	Scaffold235	205288	AA	GG	1946929145
SNP_P4_118560_205328	NW_004515769.1	Scaffold235	205328	AA	GG	1946929147
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SNP_P4_118562_205384	NW_004515769.1	Scaffold235	205384	AA	CC	1946929151
SNP_P4_118563_205388	NW_004515769.1	Scaffold235	205388	TT	CC	1946929154
SNP_P4_118564_205413	NW_004515769.1	Scaffold235	205413	GG	AA	1946929156
SNP_P4_118565_205430	NW_004515769.1	Scaffold235	205430	GG	TT	1946929158
SNP_P4_118566_205435	NW_004515769.1	Scaffold235	205435	GG	CC	1946929160
SNP_P4_118567_205514	NW_004515769.1	Scaffold235	205514	CC	TT	1946929162
SNP_P4_118568_205535	NW_004515769.1	Scaffold235	205535	TT	CC	1946929164
SNP_P4_118569_205554	NW_004515769.1	Scaffold235	205554	TT	CC	1946929166
SNP_P4_118570_205604	NW_004515769.1	Scaffold235	205604	TT	GG	1946929168
SNP_P4_118571_211780	NW_004515769.1	Scaffold235	211780	TT	CC	1946929170
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SNP_P4_118573_231848	NW_004515769.1	Scaffold235	231848	GG	AA	1946929174
SNP_P4_118574_232261	NW_004515769.1	Scaffold235	232261	AA	TT	1946929176
SNP_P4_118575_277535	NW_004515769.1	Scaffold235	277535	AA	TT	1946929178
SNP_P4_118576_2585	NW_004515770.1	Scaffold236	2585	TT	AA	1946929180
SNP_P4_118577_5195	NW_004515770.1	Scaffold236	5195	TT	GG	1946929183
SNP_P4_118578_5285	NW_004515770.1	Scaffold236	5285	AA	GG	1946929185
SNP_P4_118579_5365	NW_004515770.1	Scaffold236	5365	TT	AA	1946929187
SNP_P4_118580_5775	NW_004515770.1	Scaffold236	5775	AA	TT	1946929189
SNP_P4_118581_12085	NW_004515770.1	Scaffold236	12085	GG	TT	1946929191
SNP_P4_118582_15191	NW_004515770.1	Scaffold236	15191	CC	TT	1946929193
SNP_P4_118583_15854	NW_004515770.1	Scaffold236	15854	TT	CC	1946929195

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_118585_17123	NW_004515770.1	Scaffold236	17123	CC	GG	1946929200
SNP_P4_118586_17127	NW_004515770.1	Scaffold236	17127	AA	GG	1946929202
SNP_P4_118587_17333	NW_004515770.1	Scaffold236	17333	CC	AA	1946929204
SNP_P4_118588_22968	NW_004515770.1	Scaffold236	22968	CC	TT	1946929206
SNP_P4_118589_23041	NW_004515770.1	Scaffold236	23041	TT	CC	1946929209
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SNP_P4_118593_23375	NW_004515770.1	Scaffold236	23375	TT	CC	1946929218
SNP_P4_118594_23468	NW_004515770.1	Scaffold236	23468	AA	TT	1946929220
SNP_P4_118595_23512	NW_004515770.1	Scaffold236	23512	CC	AA	1946929222
SNP_P4_118596_23533	NW_004515770.1	Scaffold236	23533	TT	AA	1946929224
SNP_P4_118597_23561	NW_004515770.1	Scaffold236	23561	AA	GG	1946929226
SNP_P4_118598_23734	NW_004515770.1	Scaffold236	23734	TT	AA	1946929228
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SNP_P4_118604_23943	NW_004515770.1	Scaffold236	23943	CC	TT	1946929241
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SNP_P4_118610_25387	NW_004515770.1	Scaffold236	25387	GG	AA	1946929251
SNP_P4_118611_25477	NW_004515770.1	Scaffold236	25477	AA	GG	1946929253
SNP_P4_118612_25588	NW_004515770.1	Scaffold236	25588	AA	GG	1946929255
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SNP_P4_118614_25617	NW_004515770.1	Scaffold236	25617	AA	TT	1946929260
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SNP_P4_118620_26083	NW_004515770.1	Scaffold236	26083	AA	TT	1946929272
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SNP_P4_118623_26894	NW_004515770.1	Scaffold236	26894	AA	TT	1946929279
SNP_P4_118624_26947	NW_004515770.1	Scaffold236	26947	AA	GG	1946929281
SNP_P4_118625_26954	NW_004515770.1	Scaffold236	26954	AA	CC	1946929283
SNP_P4_118626_27495	NW_004515770.1	Scaffold236	27495	TT	CC	1946929285

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_118628_28804	NW_004515770.1	Scaffold236	28804	GG	TT	1946929289
SNP_P4_118629_29072	NW_004515770.1	Scaffold236	29072	TT	AA	1946929291
SNP_P4_118630_29100	NW_004515770.1	Scaffold236	29100	GG	AA	1946929293
SNP_P4_118631_29128	NW_004515770.1	Scaffold236	29128	CC	AA	1946929295
SNP_P4_118632_29131	NW_004515770.1	Scaffold236	29131	CC	TT	1946929297
SNP_P4_118633_29178	NW_004515770.1	Scaffold236	29178	TT	AA	1946929299
SNP_P4_118634_29243	NW_004515770.1	Scaffold236	29243	TT	CC	1946929301
SNP_P4_118635_29525	NW_004515770.1	Scaffold236	29525	AA	CC	1946929303
SNP_P4_118636_29630	NW_004515770.1	Scaffold236	29630	TT	CC	1946929305
SNP_P4_118637_29795	NW_004515770.1	Scaffold236	29795	CC	TT	1946929307
SNP_P4_118638_29836	NW_004515770.1	Scaffold236	29836	GG	TT	1946929309
SNP_P4_118639_29865	NW_004515770.1	Scaffold236	29865	AA	TT	1946929311
SNP_P4_118640_30822	NW_004515770.1	Scaffold236	30822	CC	AA	1946929313
SNP_P4_118641_31607	NW_004515770.1	Scaffold236	31607	GG	AA	1946929315
SNP_P4_118642_31820	NW_004515770.1	Scaffold236	31820	GG	TT	1946929317
SNP_P4_118643_34922	NW_004515770.1	Scaffold236	34922	CC	TT	1946929319
SNP_P4_118644_35193	NW_004515770.1	Scaffold236	35193	CC	AA	1946929321
SNP_P4_118646_42201	NW_004515770.1	Scaffold236	42201	GG	TT	1946929323
SNP_P4_118647_42321	NW_004515770.1	Scaffold236	42321	CC	AA	1946929325
SNP_P4_118648_42362	NW_004515770.1	Scaffold236	42362	AA	CC	1946929327
SNP_P4_118649_42376	NW_004515770.1	Scaffold236	42376	GG	AA	1946929329
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SNP_P4_118651_43261	NW_004515770.1	Scaffold236	43261	GG	AA	1946929334
SNP_P4_118652_43594	NW_004515770.1	Scaffold236	43594	AA	CC	1946929336
SNP_P4_118653_43612	NW_004515770.1	Scaffold236	43612	AA	CC	1946929339
SNP_P4_118654_44852	NW_004515770.1	Scaffold236	44852	TT	CC	1946929341
SNP_P4_118655_44905	NW_004515770.1	Scaffold236	44905	GG	AA	1946929343
SNP_P4_118656_44906	NW_004515770.1	Scaffold236	44906	TT	AA	1946929345
SNP_P4_118657_45300	NW_004515770.1	Scaffold236	45300	GG	CC	1946929347
SNP_P4_118658_45586	NW_004515770.1	Scaffold236	45586	CC	TT	1946929349
SNP_P4_118659_45597	NW_004515770.1	Scaffold236	45597	GG	TT	1946929351
SNP_P4_118660_45621	NW_004515770.1	Scaffold236	45621	CC	GG	1946929353
SNP_P4_118661_45746	NW_004515770.1	Scaffold236	45746	AA	GG	1946929355
SNP_P4_118662_45990	NW_004515770.1	Scaffold236	45990	CC	TT	1946929357
SNP_P4_118663_46054	NW_004515770.1	Scaffold236	46054	AA	GG	1946929359
SNP_P4_118664_46405	NW_004515770.1	Scaffold236	46405	AA	GG	1946929361
SNP_P4_118665_51464	NW_004515770.1	Scaffold236	51464	AA	GG	1946929364
SNP_P4_118666_51473	NW_004515770.1	Scaffold236	51473	AA	GG	1946929366
SNP_P4_118667_51480	NW_004515770.1	Scaffold236	51480	TT	GG	1946929368
SNP_P4_118668_51701	NW_004515770.1	Scaffold236	51701	AA	TT	1946929370
SNP_P4_118669_51810	NW_004515770.1	Scaffold236	51810	GG	AA	1946929372

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_118671_51927	NW_004515770.1	Scaffold236	51927	TT	CC	1946929376
SNP_P4_118672_51942	NW_004515770.1	Scaffold236	51942	GG	TT	1946929378
SNP_P4_118673_52077	NW_004515770.1	Scaffold236	52077	CC	GG	1946929380
SNP_P4_118674_52440	NW_004515770.1	Scaffold236	52440	CC	TT	1946929382
SNP_P4_118675_52519	NW_004515770.1	Scaffold236	52519	CC	GG	1946929384
SNP_P4_118676_58260	NW_004515770.1	Scaffold236	58260	TT	CC	1946929386
SNP_P4_118677_58577	NW_004515770.1	Scaffold236	58577	GG	AA	1946929388
SNP_P4_118678_59186	NW_004515770.1	Scaffold236	59186	AA	GG	1946929390
SNP_P4_118679_59196	NW_004515770.1	Scaffold236	59196	CC	TT	1946929392
SNP_P4_118680_59205	NW_004515770.1	Scaffold236	59205	TT	CC	1946929394
SNP_P4_118681_59223	NW_004515770.1	Scaffold236	59223	GG	CC	1946929396
SNP_P4_118682_59252	NW_004515770.1	Scaffold236	59252	TT	AA	1946929398
SNP_P4_118683_59538	NW_004515770.1	Scaffold236	59538	TT	GG	1946929400
SNP_P4_118684_59636	NW_004515770.1	Scaffold236	59636	CC	GG	1946929402
SNP_P4_118685_59694	NW_004515770.1	Scaffold236	59694	GG	AA	1946929403
SNP_P4_118686_59731	NW_004515770.1	Scaffold236	59731	AA	GG	1946929404
SNP_P4_118687_59805	NW_004515770.1	Scaffold236	59805	GG	AA	1946929405
SNP_P4_118688_59945	NW_004515770.1	Scaffold236	59945	CC	GG	1946929406
SNP_P4_118690_60221	NW_004515770.1	Scaffold236	60221	AA	TT	1946929408
SNP_P4_118691_60236	NW_004515770.1	Scaffold236	60236	TT	AA	1946929410
SNP_P4_118692_60627	NW_004515770.1	Scaffold236	60627	AA	TT	1946929412
SNP_P4_118693_64301	NW_004515770.1	Scaffold236	64301	GG	AA	1946929414
SNP_P4_118694_64468	NW_004515770.1	Scaffold236	64468	CC	TT	1946929416
SNP_P4_118695_64503	NW_004515770.1	Scaffold236	64503	CC	TT	1946929418
SNP_P4_118696_64506	NW_004515770.1	Scaffold236	64506	AA	GG	1946929420
SNP_P4_118697_64521	NW_004515770.1	Scaffold236	64521	GG	CC	1946929422
SNP_P4_118698_64746	NW_004515770.1	Scaffold236	64746	GG	TT	1946929424
SNP_P4_118699_66436	NW_004515770.1	Scaffold236	66436	CC	GG	1946929426
SNP_P4_118700_67278	NW_004515770.1	Scaffold236	67278	GG	AA	1946929428
SNP_P4_118701_71934	NW_004515770.1	Scaffold236	71934	CC	TT	1946929430
SNP_P4_118702_77309	NW_004515770.1	Scaffold236	77309	TT	CC	1946929432
SNP_P4_118703_2477	NW_004515771.1	Scaffold237	2477	TT	CC	1946929434
SNP_P4_118704_5316	NW_004515771.1	Scaffold237	5316	CC	TT	1946929436
SNP_P4_118705_5663	NW_004515771.1	Scaffold237	5663	CC	TT	1946929438
SNP_P4_118706_6360	NW_004515771.1	Scaffold237	6360	AA	GG	1946929440
SNP_P4_118707_16095	NW_004515771.1	Scaffold237	16095	TT	CC	1946929442
SNP_P4_118708_16147	NW_004515771.1	Scaffold237	16147	AA	TT	1946929444
SNP_P4_118709_16150	NW_004515771.1	Scaffold237	16150	AA	CC	1946929446
SNP_P4_118710_16845	NW_004515771.1	Scaffold237	16845	CC	AA	1946929448
SNP_P4_118711_25061	NW_004515771.1	Scaffold237	25061	CC	AA	1946929450
SNP_P4_118712_52393	NW_004515771.1	Scaffold237	52393	TT	AA	1946929452

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_118714_52415	NW_004515771.1	Scaffold237	52415	TT	AA	1946929456
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SNP_P4_118716_57090	NW_004515771.1	Scaffold237	57090	CC	GG	1946929460
SNP_P4_118717_57108	NW_004515771.1	Scaffold237	57108	CC	AA	1946929462
SNP_P4_118718_57112	NW_004515771.1	Scaffold237	57112	CC	TT	1946929464
SNP_P4_118719_57129	NW_004515771.1	Scaffold237	57129	TT	CC	1946929466
SNP_P4_118720_57146	NW_004515771.1	Scaffold237	57146	AA	GG	1946929468
SNP_P4_118721_57148	NW_004515771.1	Scaffold237	57148	GG	AA	1946929470
SNP_P4_118722_57158	NW_004515771.1	Scaffold237	57158	AA	CC	1946929472
SNP_P4_118723_57696	NW_004515771.1	Scaffold237	57696	CC	AA	1946929474
SNP_P4_118724_57864	NW_004515771.1	Scaffold237	57864	GG	AA	1946929476
SNP_P4_118725_57964	NW_004515771.1	Scaffold237	57964	AA	TT	1946929478
SNP_P4_118726_58051	NW_004515771.1	Scaffold237	58051	CC	GG	1946929480
SNP_P4_118727_58105	NW_004515771.1	Scaffold237	58105	TT	CC	1946929482
SNP_P4_118728_60131	NW_004515771.1	Scaffold237	60131	TT	AA	1946929484
SNP_P4_118729_60132	NW_004515771.1	Scaffold237	60132	AA	GG	1946929486
SNP_P4_118730_61745	NW_004515771.1	Scaffold237	61745	AA	CC	1946929488
SNP_P4_118731_70746	NW_004515771.1	Scaffold237	70746	AA	TT	1946929490
SNP_P4_118732_70750	NW_004515771.1	Scaffold237	70750	CC	TT	1946929492
SNP_P4_118733_70853	NW_004515771.1	Scaffold237	70853	TT	AA	1946929494
SNP_P4_118734_71142	NW_004515771.1	Scaffold237	71142	CC	AA	1946929496
SNP_P4_118735_71585	NW_004515771.1	Scaffold237	71585	TT	GG	1946929498
SNP_P4_118736_71730	NW_004515771.1	Scaffold237	71730	TT	AA	1946929500
SNP_P4_118737_71751	NW_004515771.1	Scaffold237	71751	TT	CC	1946929502
SNP_P4_118738_629	NW_004515772.1	Scaffold238	629	GG	CC	1946929504
SNP_P4_118739_643	NW_004515772.1	Scaffold238	643	GG	TT	1946929506
SNP_P4_118740_688	NW_004515772.1	Scaffold238	688	AA	GG	1946929508
SNP_P4_118741_731	NW_004515772.1	Scaffold238	731	CC	TT	1946929510
SNP_P4_118742_928	NW_004515772.1	Scaffold238	928	TT	AA	1946929512
SNP_P4_118743_1092	NW_004515772.1	Scaffold238	1092	GG	AA	1946929514
SNP_P4_118744_1102	NW_004515772.1	Scaffold238	1102	TT	GG	1946929516
SNP_P4_118745_1111	NW_004515772.1	Scaffold238	1111	AA	GG	1946929518
SNP_P4_118746_1155	NW_004515772.1	Scaffold238	1155	TT	CC	1946929520
SNP_P4_118747_1169	NW_004515772.1	Scaffold238	1169	TT	CC	1946929522
SNP_P4_118748_1259	NW_004515772.1	Scaffold238	1259	TT	AA	1946929524
SNP_P4_118749_1291	NW_004515772.1	Scaffold238	1291	AA	CC	1946929526
SNP_P4_118750_1342	NW_004515772.1	Scaffold238	1342	CC	TT	1946929528
SNP_P4_118751_1381	NW_004515772.1	Scaffold238	1381	TT	AA	1946929530
SNP_P4_118752_1430	NW_004515772.1	Scaffold238	1430	GG	CC	1946929532
SNP_P4_118753_1749	NW_004515772.1	Scaffold238	1749	CC	TT	1946929535
SNP_P4_118754_1860	NW_004515772.1	Scaffold238	1860	GG	AA	1946929537

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_118755_2072	NW_004515772.1	Scaffold238	2072	GG	AA	1946929539
SNP_P4_118756_2294	NW_004515772.1	Scaffold238	2294	AA	TT	1946929541
SNP_P4_118757_4195	NW_004515772.1	Scaffold238	4195	CC	TT	1946929543
SNP_P4_118758_4230	NW_004515772.1	Scaffold238	4230	TT	CC	1946929545
SNP_P4_118759_4367	NW_004515772.1	Scaffold238	4367	TT	CC	1946929547
SNP_P4_118760_4368	NW_004515772.1	Scaffold238	4368	TT	CC	1946929549
SNP_P4_118761_4408	NW_004515772.1	Scaffold238	4408	CC	TT	1946929551
SNP_P4_118762_4443	NW_004515772.1	Scaffold238	4443	AA	TT	1946929553
SNP_P4_118763_4488	NW_004515772.1	Scaffold238	4488	CC	AA	1946929555
SNP_P4_118764_4521	NW_004515772.1	Scaffold238	4521	TT	GG	1946929557
SNP_P4_118765_4652	NW_004515772.1	Scaffold238	4652	GG	TT	1946929560
SNP_P4_118767_8547	NW_004515772.1	Scaffold238	8547	TT	AA	1946929562
SNP_P4_118768_14481	NW_004515772.1	Scaffold238	14481	CC	AA	1946929564
SNP_P4_118769_14502	NW_004515772.1	Scaffold238	14502	AA	TT	1946929566
SNP_P4_118770_14503	NW_004515772.1	Scaffold238	14503	GG	AA	1946929568
SNP_P4_118771_18885	NW_004515772.1	Scaffold238	18885	AA	CC	1946929570
SNP_P4_118772_19191	NW_004515772.1	Scaffold238	19191	TT	AA	1946929572
SNP_P4_118773_20289	NW_004515772.1	Scaffold238	20289	AA	GG	1946929574
SNP_P4_118774_20604	NW_004515772.1	Scaffold238	20604	AA	TT	1946929576
SNP_P4_118775_20672	NW_004515772.1	Scaffold238	20672	GG	AA	1946929578
SNP_P4_118776_20675	NW_004515772.1	Scaffold238	20675	AA	CC	1946929580
SNP_P4_118777_20706	NW_004515772.1	Scaffold238	20706	AA	TT	1946929582
SNP_P4_118778_21094	NW_004515772.1	Scaffold238	21094	CC	AA	1946929585
SNP_P4_118779_21122	NW_004515772.1	Scaffold238	21122	TT	GG	1946929587
SNP_P4_118780_23809	NW_004515772.1	Scaffold238	23809	GG	AA	1946929589
SNP_P4_118781_23823	NW_004515772.1	Scaffold238	23823	AA	TT	1946929591
SNP_P4_118782_23915	NW_004515772.1	Scaffold238	23915	AA	GG	1946929593
SNP_P4_118783_23964	NW_004515772.1	Scaffold238	23964	CC	TT	1946929595
SNP_P4_118784_24308	NW_004515772.1	Scaffold238	24308	AA	TT	1946929597
SNP_P4_118785_24343	NW_004515772.1	Scaffold238	24343	CC	TT	1946929599
SNP_P4_118786_27159	NW_004515772.1	Scaffold238	27159	GG	AA	1946929601
SNP_P4_118787_27371	NW_004515772.1	Scaffold238	27371	CC	AA	1946929603
SNP_P4_118788_27692	NW_004515772.1	Scaffold238	27692	CC	TT	1946929605
SNP_P4_118789_27705	NW_004515772.1	Scaffold238	27705	TT	CC	1946929607
SNP_P4_118790_15110	NW_004515773.1	Scaffold239	15110	TT	AA	1946929609
SNP_P4_118791_15254	NW_004515773.1	Scaffold239	15254	GG	AA	1946929611
SNP_P4_118792_15255	NW_004515773.1	Scaffold239	15255	GG	AA	1946929613
SNP_P4_118793_15332	NW_004515773.1	Scaffold239	15332	GG	AA	1946929615
SNP_P4_118794_36824	NW_004515773.1	Scaffold239	36824	GG	TT	1946929617
SNP_P4_118795_36852	NW_004515773.1	Scaffold239	36852	TT	GG	1946929619
SNP_P4_118796_37944	NW_004515773.1	Scaffold239	37944	TT	CC	1946929621
SNP_P4_118797_47649	NW_004515773.1	Scaffold239	47649	GG	CC	1946929623

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_118799_47656	NW_004515773.1	Scaffold239	47656	GG	TT	1946929627
SNP_P4_118800_49915	NW_004515773.1	Scaffold239	49915	CC	TT	1946929629
SNP_P4_118801_49921	NW_004515773.1	Scaffold239	49921	AA	TT	1946929631
SNP_P4_118802_49923	NW_004515773.1	Scaffold239	49923	AA	TT	1946929633
SNP_P4_118803_49950	NW_004515773.1	Scaffold239	49950	AA	GG	1946929635
SNP_P4_118804_50057	NW_004515773.1	Scaffold239	50057	GG	AA	1946929637
SNP_P4_118805_50141	NW_004515773.1	Scaffold239	50141	TT	CC	1946929639
SNP_P4_118806_50183	NW_004515773.1	Scaffold239	50183	AA	TT	1946929641
SNP_P4_118807_50184	NW_004515773.1	Scaffold239	50184	AA	GG	1946929643
SNP_P4_118808_50210	NW_004515773.1	Scaffold239	50210	AA	CC	1946929645
SNP_P4_118809_50213	NW_004515773.1	Scaffold239	50213	TT	AA	1946929647
SNP_P4_118810_50221	NW_004515773.1	Scaffold239	50221	GG	AA	1946929649
SNP_P4_118811_50224	NW_004515773.1	Scaffold239	50224	AA	TT	1946929651
SNP_P4_118812_50232	NW_004515773.1	Scaffold239	50232	GG	AA	1946929653
SNP_P4_118813_50249	NW_004515773.1	Scaffold239	50249	AA	CC	1946929655
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SNP_P4_118816_50292	NW_004515773.1	Scaffold239	50292	TT	CC	1946929659
SNP_P4_118817_50332	NW_004515773.1	Scaffold239	50332	TT	CC	1946929661
SNP_P4_118818_50581	NW_004515773.1	Scaffold239	50581	GG	AA	1946929663
SNP_P4_118819_50588	NW_004515773.1	Scaffold239	50588	AA	GG	1946929665
SNP_P4_118820_54139	NW_004515773.1	Scaffold239	54139	CC	TT	1946929667
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SNP_P4_118822_54407	NW_004515773.1	Scaffold239	54407	AA	GG	1946929671
SNP_P4_118823_54418	NW_004515773.1	Scaffold239	54418	GG	AA	1946929673
SNP_P4_118824_56878	NW_004515773.1	Scaffold239	56878	CC	AA	1946929675
SNP_P4_118825_56891	NW_004515773.1	Scaffold239	56891	AA	CC	1946929677
SNP_P4_118826_57058	NW_004515773.1	Scaffold239	57058	AA	GG	1946929679
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SNP_P4_118830_59069	NW_004515773.1	Scaffold239	59069	AA	TT	1946929685
SNP_P4_118831_59072	NW_004515773.1	Scaffold239	59072	GG	TT	1946929687
SNP_P4_118832_59081	NW_004515773.1	Scaffold239	59081	AA	CC	1946929689
SNP_P4_118833_59117	NW_004515773.1	Scaffold239	59117	AA	TT	1946929691
SNP_P4_118834_59240	NW_004515773.1	Scaffold239	59240	CC	TT	1946929693
SNP_P4_118835_59544	NW_004515773.1	Scaffold239	59544	CC	AA	1946929695
SNP_P4_118836_59546	NW_004515773.1	Scaffold239	59546	CC	GG	1946929697
SNP_P4_118837_60813	NW_004515773.1	Scaffold239	60813	TT	GG	1946929700
SNP_P4_118838_61384	NW_004515773.1	Scaffold239	61384	GG	AA	1946929702
SNP_P4_118839_61493	NW_004515773.1	Scaffold239	61493	AA	GG	1946929704
SNP_P4_118840_61522	NW_004515773.1	Scaffold239	61522	GG	TT	1946929706
SNP_P4_118841_61523	NW_004515773.1	Scaffold239	61523	CC	AA	1946929708

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_118845_64813	NW_004515773.1	Scaffold239	64813	TT	GG	1946929712
SNP_P4_118846_64832	NW_004515773.1	Scaffold239	64832	CC	TT	1946929714
SNP_P4_118847_64838	NW_004515773.1	Scaffold239	64838	AA	TT	1946929716
SNP_P4_118848_64861	NW_004515773.1	Scaffold239	64861	GG	TT	1946929718
SNP_P4_118849_64898	NW_004515773.1	Scaffold239	64898	CC	TT	1946929720
SNP_P4_118850_64978	NW_004515773.1	Scaffold239	64978	CC	AA	1946929722
SNP_P4_118851_75131	NW_004515773.1	Scaffold239	75131	AA	CC	1946929724
SNP_P4_118852_75778	NW_004515773.1	Scaffold239	75778	AA	CC	1946929726
SNP_P4_118853_76066	NW_004515773.1	Scaffold239	76066	GG	TT	1946929728
SNP_P4_118854_80998	NW_004515773.1	Scaffold239	80998	GG	CC	1946929730
SNP_P4_118855_83765	NW_004515773.1	Scaffold239	83765	TT	GG	1946929732
SNP_P4_118856_83786	NW_004515773.1	Scaffold239	83786	AA	TT	1946929734
SNP_P4_118857_83787	NW_004515773.1	Scaffold239	83787	TT	CC	1946929736
SNP_P4_118858_83934	NW_004515773.1	Scaffold239	83934	AA	GG	1946929738
SNP_P4_118859_85004	NW_004515773.1	Scaffold239	85004	AA	GG	1946929740
SNP_P4_118860_88682	NW_004515773.1	Scaffold239	88682	AA	CC	1946929742
SNP_P4_118861_89296	NW_004515773.1	Scaffold239	89296	CC	GG	1946929744
SNP_P4_118862_89375	NW_004515773.1	Scaffold239	89375	GG	TT	1946929746
SNP_P4_118863_89387	NW_004515773.1	Scaffold239	89387	CC	AA	1946929748
SNP_P4_118864_89475	NW_004515773.1	Scaffold239	89475	AA	GG	1946929750
SNP_P4_118865_89477	NW_004515773.1	Scaffold239	89477	GG	CC	1946929752
SNP_P4_118866_89484	NW_004515773.1	Scaffold239	89484	AA	GG	1946929754
SNP_P4_118867_89653	NW_004515773.1	Scaffold239	89653	GG	AA	1946929756
SNP_P4_118868_89667	NW_004515773.1	Scaffold239	89667	TT	CC	1946929759
SNP_P4_118869_89681	NW_004515773.1	Scaffold239	89681	AA	TT	1946929761
SNP_P4_118870_89801	NW_004515773.1	Scaffold239	89801	GG	AA	1946929763
SNP_P4_118871_89802	NW_004515773.1	Scaffold239	89802	GG	AA	1946929765
SNP_P4_118872_89892	NW_004515773.1	Scaffold239	89892	AA	TT	1946929767
SNP_P4_118873_89893	NW_004515773.1	Scaffold239	89893	GG	TT	1946929769
SNP_P4_118874_89900	NW_004515773.1	Scaffold239	89900	TT	AA	1946929771
SNP_P4_118875_89923	NW_004515773.1	Scaffold239	89923	CC	TT	1946929773
SNP_P4_118876_89948	NW_004515773.1	Scaffold239	89948	TT	GG	1946929775
SNP_P4_118877_89991	NW_004515773.1	Scaffold239	89991	TT	AA	1946929777
SNP_P4_118878_90011	NW_004515773.1	Scaffold239	90011	CC	AA	1946929779
SNP_P4_118879_90023	NW_004515773.1	Scaffold239	90023	CC	TT	1946929781
SNP_P4_118880_90065	NW_004515773.1	Scaffold239	90065	GG	CC	1946929783
SNP_P4_118881_90070	NW_004515773.1	Scaffold239	90070	CC	TT	1946929785
SNP_P4_118882_90092	NW_004515773.1	Scaffold239	90092	AA	TT	1946929787
SNP_P4_118883_90115	NW_004515773.1	Scaffold239	90115	TT	AA	1946929789
SNP_P4_118884_96604	NW_004515773.1	Scaffold239	96604	AA	TT	1946929791
SNP_P4_118885_96609	NW_004515773.1	Scaffold239	96609	GG	CC	1946929793

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_118886_96778	NW_004515773.1	Scaffold239	96778	GG	TT	1946929795
SNP_P4_118887_96793	NW_004515773.1	Scaffold239	96793	AA	TT	1946929797
SNP_P4_118888_96808	NW_004515773.1	Scaffold239	96808	TT	AA	1946929799
SNP_P4_118889_96819	NW_004515773.1	Scaffold239	96819	CC	AA	1946929801
SNP_P4_118890_96823	NW_004515773.1	Scaffold239	96823	AA	GG	1946929803
SNP_P4_118891_96838	NW_004515773.1	Scaffold239	96838	AA	TT	1946929805
SNP_P4_118892_96847	NW_004515773.1	Scaffold239	96847	AA	TT	1946929807
SNP_P4_118893_97093	NW_004515773.1	Scaffold239	97093	AA	GG	1946929809
SNP_P4_118894_97379	NW_004515773.1	Scaffold239	97379	CC	TT	1946929811
SNP_P4_118895_97493	NW_004515773.1	Scaffold239	97493	GG	TT	1946929813
SNP_P4_118896_97504	NW_004515773.1	Scaffold239	97504	CC	GG	1946929815
SNP_P4_118897_97574	NW_004515773.1	Scaffold239	97574	CC	TT	1946929817
SNP_P4_118898_97611	NW_004515773.1	Scaffold239	97611	TT	CC	1946929819
SNP_P4_118899_97622	NW_004515773.1	Scaffold239	97622	TT	GG	1946929821
SNP_P4_118900_97631	NW_004515773.1	Scaffold239	97631	AA	CC	1946929823
SNP_P4_118901_97638	NW_004515773.1	Scaffold239	97638	CC	TT	1946929825
SNP_P4_118902_97641	NW_004515773.1	Scaffold239	97641	CC	GG	1946929827
SNP_P4_118903_97676	NW_004515773.1	Scaffold239	97676	TT	CC	1946929829
SNP_P4_118904_97712	NW_004515773.1	Scaffold239	97712	AA	CC	1946929831
SNP_P4_118905_97748	NW_004515773.1	Scaffold239	97748	CC	TT	1946929833
SNP_P4_118906_97799	NW_004515773.1	Scaffold239	97799	GG	TT	1946929835
SNP_P4_118907_97962	NW_004515773.1	Scaffold239	97962	TT	CC	1946929837
SNP_P4_118908_97978	NW_004515773.1	Scaffold239	97978	CC	TT	1946929839
SNP_P4_118909_98019	NW_004515773.1	Scaffold239	98019	TT	AA	1946929841
SNP_P4_118910_98034	NW_004515773.1	Scaffold239	98034	CC	GG	1946929843
SNP_P4_118911_98044	NW_004515773.1	Scaffold239	98044	GG	TT	1946929845
SNP_P4_118912_98061	NW_004515773.1	Scaffold239	98061	TT	AA	1946929847
SNP_P4_118913_98087	NW_004515773.1	Scaffold239	98087	TT	CC	1946929849
SNP_P4_118914_98104	NW_004515773.1	Scaffold239	98104	CC	GG	1946929851
SNP_P4_118915_98121	NW_004515773.1	Scaffold239	98121	GG	AA	1946929853
SNP_P4_118916_98313	NW_004515773.1	Scaffold239	98313	CC	TT	1946929855
SNP_P4_118917_98339	NW_004515773.1	Scaffold239	98339	TT	CC	1946929857
SNP_P4_118918_98363	NW_004515773.1	Scaffold239	98363	GG	TT	1946929859
SNP_P4_118919_98371	NW_004515773.1	Scaffold239	98371	TT	GG	1946929861
SNP_P4_118920_98372	NW_004515773.1	Scaffold239	98372	TT	CC	1946929863
SNP_P4_118921_98434	NW_004515773.1	Scaffold239	98434	GG	TT	1946929865
SNP_P4_118922_98711	NW_004515773.1	Scaffold239	98711	GG	AA	1946929867
SNP_P4_118923_98739	NW_004515773.1	Scaffold239	98739	TT	AA	1946929869
SNP_P4_118924_108470	NW_004515773.1	Scaffold239	108470	TT	CC	1946929871
SNP_P4_118925_108516	NW_004515773.1	Scaffold239	108516	CC	AA	1946929873
SNP_P4_118926_109035	NW_004515773.1	Scaffold239	109035	TT	AA	1946929875
SNP_P4_118929_109319	NW_004515773.1	Scaffold239	109319	TT	CC	1946929877

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_118931_109370	NW_004515773.1	Scaffold239	109370	AA	GG	1946929881
SNP_P4_118932_109635	NW_004515773.1	Scaffold239	109635	CC	TT	1946929883
SNP_P4_118933_109670	NW_004515773.1	Scaffold239	109670	CC	TT	1946929886
SNP_P4_118934_109877	NW_004515773.1	Scaffold239	109877	AA	GG	1946929888
SNP_P4_118935_109888	NW_004515773.1	Scaffold239	109888	GG	TT	1946929890
SNP_P4_118936_109954	NW_004515773.1	Scaffold239	109954	CC	TT	1946929892
SNP_P4_118937_110004	NW_004515773.1	Scaffold239	110004	CC	TT	1946929894
SNP_P4_118938_110314	NW_004515773.1	Scaffold239	110314	AA	TT	1946929896
SNP_P4_118939_4629	NW_004515774.1	Scaffold240	4629	CC	TT	1946929898
SNP_P4_118940_4645	NW_004515774.1	Scaffold240	4645	CC	TT	1946929900
SNP_P4_118941_6760	NW_004515774.1	Scaffold240	6760	AA	TT	1946929902
SNP_P4_118943_32761	NW_004515774.1	Scaffold240	32761	AA	CC	1946929904
SNP_P4_118944_38660	NW_004515774.1	Scaffold240	38660	GG	AA	1946929906
SNP_P4_118946_73014	NW_004515774.1	Scaffold240	73014	TT	GG	1946929908
SNP_P4_118947_73019	NW_004515774.1	Scaffold240	73019	GG	AA	1946929911
SNP_P4_118948_73052	NW_004515774.1	Scaffold240	73052	CC	TT	1946929913
SNP_P4_118949_73056	NW_004515774.1	Scaffold240	73056	TT	AA	1946929915
SNP_P4_118950_73069	NW_004515774.1	Scaffold240	73069	TT	AA	1946929917
SNP_P4_118951_73113	NW_004515774.1	Scaffold240	73113	TT	CC	1946929919
SNP_P4_118952_73119	NW_004515774.1	Scaffold240	73119	AA	GG	1946929921
SNP_P4_118954_73464	NW_004515774.1	Scaffold240	73464	GG	AA	1946929923
SNP_P4_118955_73525	NW_004515774.1	Scaffold240	73525	AA	CC	1946929925
SNP_P4_118956_73530	NW_004515774.1	Scaffold240	73530	TT	AA	1946929927
SNP_P4_118957_73554	NW_004515774.1	Scaffold240	73554	TT	GG	1946929929
SNP_P4_118958_73583	NW_004515774.1	Scaffold240	73583	GG	AA	1946929931
SNP_P4_118959_83674	NW_004515774.1	Scaffold240	83674	CC	TT	1946929933
SNP_P4_118960_83681	NW_004515774.1	Scaffold240	83681	GG	AA	1946929935
SNP_P4_118961_83710	NW_004515774.1	Scaffold240	83710	AA	CC	1946929937
SNP_P4_118962_84111	NW_004515774.1	Scaffold240	84111	CC	TT	1946929939
SNP_P4_118963_100929	NW_004515774.1	Scaffold240	100929	TT	CC	1946929941
SNP_P4_118964_100966	NW_004515774.1	Scaffold240	100966	GG	CC	1946929943
SNP_P4_118966_138292	NW_004515774.1	Scaffold240	138292	TT	GG	1946929945
SNP_P4_118967_139332	NW_004515774.1	Scaffold240	139332	AA	GG	1946929947
SNP_P4_118968_142277	NW_004515774.1	Scaffold240	142277	TT	CC	1946929949
SNP_P4_118969_142302	NW_004515774.1	Scaffold240	142302	TT	AA	1946929951
SNP_P4_118970_142325	NW_004515774.1	Scaffold240	142325	AA	TT	1946929953
SNP_P4_118971_142329	NW_004515774.1	Scaffold240	142329	CC	AA	1946929955
SNP_P4_118972_142344	NW_004515774.1	Scaffold240	142344	TT	GG	1946929957
SNP_P4_118973_142774	NW_004515774.1	Scaffold240	142774	CC	TT	1946929959
SNP_P4_118974_142776	NW_004515774.1	Scaffold240	142776	TT	CC	1946929961
SNP_P4_118975_142791	NW_004515774.1	Scaffold240	142791	CC	TT	1946929963

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_118977_142920	NW_004515774.1	Scaffold240	142920	TT	CC	1946929967
SNP_P4_118978_142921	NW_004515774.1	Scaffold240	142921	GG	AA	1946929969
SNP_P4_118979_142922	NW_004515774.1	Scaffold240	142922	AA	CC	1946929971
SNP_P4_118980_142944	NW_004515774.1	Scaffold240	142944	TT	CC	1946929973
SNP_P4_118981_143754	NW_004515774.1	Scaffold240	143754	TT	AA	1946929975
SNP_P4_118982_143768	NW_004515774.1	Scaffold240	143768	CC	AA	1946929977
SNP_P4_118983_145027	NW_004515774.1	Scaffold240	145027	CC	TT	1946929979
SNP_P4_118984_145182	NW_004515774.1	Scaffold240	145182	CC	TT	1946929981
SNP_P4_118985_145185	NW_004515774.1	Scaffold240	145185	TT	GG	1946929983
SNP_P4_118986_147268	NW_004515774.1	Scaffold240	147268	AA	GG	1946929985
SNP_P4_118987_147677	NW_004515774.1	Scaffold240	147677	CC	TT	1946929987
SNP_P4_118990_149727	NW_004515774.1	Scaffold240	149727	CC	TT	1946929989
SNP_P4_118992_150309	NW_004515774.1	Scaffold240	150309	AA	GG	1946929992
SNP_P4_118994_151401	NW_004515774.1	Scaffold240	151401	CC	TT	1946929994
SNP_P4_118995_151905	NW_004515774.1	Scaffold240	151905	GG	AA	1946929996
SNP_P4_118996_153962	NW_004515774.1	Scaffold240	153962	TT	CC	1946929998
SNP_P4_118997_155587	NW_004515774.1	Scaffold240	155587	CC	TT	1946930000
SNP_P4_118999_159182	NW_004515774.1	Scaffold240	159182	AA	GG	1946930002
SNP_P4_119000_2481	NW_004515775.1	Scaffold242	2481	TT	GG	1946930004
SNP_P4_119001_2817	NW_004515775.1	Scaffold242	2817	CC	TT	1946930006
SNP_P4_119002_6532	NW_004515775.1	Scaffold242	6532	GG	TT	1946930008
SNP_P4_119003_8474	NW_004515775.1	Scaffold242	8474	AA	CC	1946930010
SNP_P4_119004_9073	NW_004515775.1	Scaffold242	9073	TT	CC	1946930012
SNP_P4_119005_9302	NW_004515775.1	Scaffold242	9302	AA	CC	1946930014
SNP_P4_119006_10782	NW_004515775.1	Scaffold242	10782	TT	AA	1946930016
SNP_P4_119007_16591	NW_004515775.1	Scaffold242	16591	AA	GG	1946930018
SNP_P4_119008_17432	NW_004515775.1	Scaffold242	17432	GG	TT	1946930020
SNP_P4_119009_19779	NW_004515775.1	Scaffold242	19779	AA	TT	1946930022
SNP_P4_119010_22345	NW_004515775.1	Scaffold242	22345	CC	TT	1946930024
SNP_P4_119011_22362	NW_004515775.1	Scaffold242	22362	TT	CC	1946930026
SNP_P4_119012_30869	NW_004515775.1	Scaffold242	30869	TT	GG	1946930028
SNP_P4_119013_42110	NW_004515775.1	Scaffold242	42110	GG	AA	1946930030
SNP_P4_119014_42753	NW_004515775.1	Scaffold242	42753	CC	AA	1946930032
SNP_P4_119015_42896	NW_004515775.1	Scaffold242	42896	CC	AA	1946930034
SNP_P4_119016_44671	NW_004515775.1	Scaffold242	44671	CC	GG	1946930036
SNP_P4_119017_44722	NW_004515775.1	Scaffold242	44722	TT	CC	1946930038
SNP_P4_119018_44820	NW_004515775.1	Scaffold242	44820	TT	CC	1946930040
SNP_P4_119019_44837	NW_004515775.1	Scaffold242	44837	TT	GG	1946930042
SNP_P4_119020_44839	NW_004515775.1	Scaffold242	44839	CC	AA	1946930044
SNP_P4_119021_44853	NW_004515775.1	Scaffold242	44853	CC	AA	1946930046
SNP_P4_119022_45094	NW_004515775.1	Scaffold242	45094	TT	CC	1946930048

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_119024_45228	NW_004515775.1	Scaffold242	45228	AA	GG	1946930052
SNP_P4_119025_45243	NW_004515775.1	Scaffold242	45243	AA	GG	1946930054
SNP_P4_119026_45294	NW_004515775.1	Scaffold242	45294	AA	GG	1946930056
SNP_P4_119027_45366	NW_004515775.1	Scaffold242	45366	TT	CC	1946930058
SNP_P4_119028_45468	NW_004515775.1	Scaffold242	45468	TT	AA	1946930060
SNP_P4_119029_45475	NW_004515775.1	Scaffold242	45475	AA	GG	1946930062
SNP_P4_119030_45483	NW_004515775.1	Scaffold242	45483	GG	AA	1946930064
SNP_P4_119031_45485	NW_004515775.1	Scaffold242	45485	GG	TT	1946930066
SNP_P4_119032_45516	NW_004515775.1	Scaffold242	45516	CC	TT	1946930068
SNP_P4_119033_48653	NW_004515775.1	Scaffold242	48653	CC	AA	1946930071
SNP_P4_119034_49412	NW_004515775.1	Scaffold242	49412	GG	AA	1946930073
SNP_P4_119035_50294	NW_004515775.1	Scaffold242	50294	TT	CC	1946930075
SNP_P4_119036_50301	NW_004515775.1	Scaffold242	50301	CC	AA	1946930077
SNP_P4_119037_50335	NW_004515775.1	Scaffold242	50335	AA	GG	1946930079
SNP_P4_119038_50356	NW_004515775.1	Scaffold242	50356	GG	AA	1946930081
SNP_P4_119039_50365	NW_004515775.1	Scaffold242	50365	CC	GG	1946930083
SNP_P4_119040_50421	NW_004515775.1	Scaffold242	50421	AA	GG	1946930085
SNP_P4_119041_50426	NW_004515775.1	Scaffold242	50426	TT	CC	1946930087
SNP_P4_119042_50644	NW_004515775.1	Scaffold242	50644	AA	GG	1946930090
SNP_P4_119043_50832	NW_004515775.1	Scaffold242	50832	AA	GG	1946930092
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SNP_P4_119046_51027	NW_004515775.1	Scaffold242	51027	TT	CC	1946930098
SNP_P4_119047_52762	NW_004515775.1	Scaffold242	52762	GG	AA	1946930100
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SNP_P4_119049_58689	NW_004515775.1	Scaffold242	58689	AA	TT	1946930104
SNP_P4_119050_62721	NW_004515775.1	Scaffold242	62721	CC	AA	1946930106
SNP_P4_119051_63161	NW_004515775.1	Scaffold242	63161	GG	AA	1946930108
SNP_P4_119052_64397	NW_004515775.1	Scaffold242	64397	CC	TT	1946930110
SNP_P4_119053_64740	NW_004515775.1	Scaffold242	64740	GG	AA	1946930112
SNP_P4_119054_64769	NW_004515775.1	Scaffold242	64769	GG	AA	1946930114
SNP_P4_119055_69945	NW_004515775.1	Scaffold242	69945	TT	CC	1946930116
SNP_P4_119056_70740	NW_004515775.1	Scaffold242	70740	AA	GG	1946930118
SNP_P4_119058_73377	NW_004515775.1	Scaffold242	73377	GG	AA	1946930120
SNP_P4_119059_73875	NW_004515775.1	Scaffold242	73875	AA	CC	1946930122
SNP_P4_119060_74024	NW_004515775.1	Scaffold242	74024	CC	TT	1946930124
SNP_P4_119061_74027	NW_004515775.1	Scaffold242	74027	GG	AA	1946930126
SNP_P4_119062_82394	NW_004515775.1	Scaffold242	82394	GG	TT	1946930128
SNP_P4_119063_84118	NW_004515775.1	Scaffold242	84118	GG	AA	1946930130
SNP_P4_119065_90296	NW_004515775.1	Scaffold242	90296	GG	AA	1946930132
SNP_P4_119066_90589	NW_004515775.1	Scaffold242	90589	GG	TT	1946930134

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_119068_103662	NW_004515775.1	Scaffold242	103662	CC	TT	1946930138
SNP_P4_119069_103679	NW_004515775.1	Scaffold242	103679	TT	GG	1946930140
SNP_P4_119070_103724	NW_004515775.1	Scaffold242	103724	AA	GG	1946930142
SNP_P4_119071_103749	NW_004515775.1	Scaffold242	103749	CC	TT	1946930144
SNP_P4_119072_103775	NW_004515775.1	Scaffold242	103775	CC	TT	1946930146
SNP_P4_119073_103779	NW_004515775.1	Scaffold242	103779	CC	AA	1946930148
SNP_P4_119074_103932	NW_004515775.1	Scaffold242	103932	AA	GG	1946930150
SNP_P4_119075_103998	NW_004515775.1	Scaffold242	103998	CC	TT	1946930152
SNP_P4_119076_104050	NW_004515775.1	Scaffold242	104050	AA	GG	1946930154
SNP_P4_119077_104098	NW_004515775.1	Scaffold242	104098	GG	AA	1946930156
SNP_P4_119078_104100	NW_004515775.1	Scaffold242	104100	GG	AA	1946930158
SNP_P4_119079_106747	NW_004515775.1	Scaffold242	106747	AA	TT	1946930160
SNP_P4_119080_106779	NW_004515775.1	Scaffold242	106779	TT	CC	1946930162
SNP_P4_119081_107779	NW_004515775.1	Scaffold242	107779	TT	CC	1946930164
SNP_P4_119082_108193	NW_004515775.1	Scaffold242	108193	GG	AA	1946930166
SNP_P4_119083_108197	NW_004515775.1	Scaffold242	108197	CC	TT	1946930168
SNP_P4_119084_108207	NW_004515775.1	Scaffold242	108207	CC	AA	1946930170
SNP_P4_119085_109816	NW_004515775.1	Scaffold242	109816	GG	TT	1946930172
SNP_P4_119086_114393	NW_004515775.1	Scaffold242	114393	AA	TT	1946930174
SNP_P4_119087_116505	NW_004515775.1	Scaffold242	116505	GG	AA	1946930176
SNP_P4_119088_117983	NW_004515775.1	Scaffold242	117983	GG	AA	1946930178
SNP_P4_119089_121771	NW_004515775.1	Scaffold242	121771	TT	CC	1946930180
SNP_P4_119090_121778	NW_004515775.1	Scaffold242	121778	CC	TT	1946930182
SNP_P4_119091_122934	NW_004515775.1	Scaffold242	122934	GG	CC	1946930184
SNP_P4_119092_123010	NW_004515775.1	Scaffold242	123010	CC	TT	1946930186
SNP_P4_119093_130510	NW_004515775.1	Scaffold242	130510	AA	GG	1946930188
SNP_P4_119094_133212	NW_004515775.1	Scaffold242	133212	GG	TT	1946930190
SNP_P4_119095_139874	NW_004515775.1	Scaffold242	139874	AA	GG	1946930192
SNP_P4_119096_152190	NW_004515775.1	Scaffold242	152190	AA	CC	1946930194
SNP_P4_119097_156781	NW_004515775.1	Scaffold242	156781	AA	GG	1946930196
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SNP_P4_119099_161394	NW_004515775.1	Scaffold242	161394	AA	TT	1946930200
SNP_P4_119100_163045	NW_004515775.1	Scaffold242	163045	CC	TT	1946930202
SNP_P4_119101_163316	NW_004515775.1	Scaffold242	163316	CC	GG	1946930204
SNP_P4_119102_169547	NW_004515775.1	Scaffold242	169547	CC	TT	1946930206
SNP_P4_119103_183359	NW_004515775.1	Scaffold242	183359	TT	CC	1946930208
SNP_P4_119104_183678	NW_004515775.1	Scaffold242	183678	TT	CC	1946930210
SNP_P4_119105_187993	NW_004515775.1	Scaffold242	187993	TT	CC	1946930212
SNP_P4_119106_191152	NW_004515775.1	Scaffold242	191152	GG	AA	1946930214
SNP_P4_119107_191472	NW_004515775.1	Scaffold242	191472	AA	GG	1946930216
SNP_P4_119108_191552	NW_004515775.1	Scaffold242	191552	TT	CC	1946930218

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_119111_198787	NW_004515775.1	Scaffold242	198787	GG	AA	1946930224
SNP_P4_119113_210297	NW_004515775.1	Scaffold242	210297	TT	AA	1946930227
SNP_P4_119114_211548	NW_004515775.1	Scaffold242	211548	AA	GG	1946930229
SNP_P4_119115_213469	NW_004515775.1	Scaffold242	213469	CC	AA	1946930231
SNP_P4_119116_213859	NW_004515775.1	Scaffold242	213859	CC	TT	1946930233
SNP_P4_119117_215907	NW_004515775.1	Scaffold242	215907	TT	CC	1946930235
SNP_P4_119118_216156	NW_004515775.1	Scaffold242	216156	CC	TT	1946930237
SNP_P4_119119_223528	NW_004515775.1	Scaffold242	223528	CC	GG	1946930239
SNP_P4_119120_229265	NW_004515775.1	Scaffold242	229265	GG	AA	1946930241
SNP_P4_119122_233657	NW_004515775.1	Scaffold242	233657	GG	AA	1946930244
SNP_P4_119123_233658	NW_004515775.1	Scaffold242	233658	TT	CC	1946930246
SNP_P4_119124_234615	NW_004515775.1	Scaffold242	234615	AA	GG	1946930248
SNP_P4_119125_244176	NW_004515775.1	Scaffold242	244176	AA	GG	1946930250
SNP_P4_119126_247389	NW_004515775.1	Scaffold242	247389	AA	GG	1946930252
SNP_P4_119127_247404	NW_004515775.1	Scaffold242	247404	TT	AA	1946930254
SNP_P4_119128_247653	NW_004515775.1	Scaffold242	247653	TT	AA	1946930256
SNP_P4_119129_247705	NW_004515775.1	Scaffold242	247705	TT	CC	1946930258
SNP_P4_119130_254200	NW_004515775.1	Scaffold242	254200	GG	AA	1946930260
SNP_P4_119131_254885	NW_004515775.1	Scaffold242	254885	TT	CC	1946930262
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SNP_P4_119134_260896	NW_004515775.1	Scaffold242	260896	TT	GG	1946930267
SNP_P4_119135_266007	NW_004515775.1	Scaffold242	266007	CC	TT	1946930269
SNP_P4_119138_288374	NW_004515775.1	Scaffold242	288374	AA	GG	1946930271
SNP_P4_119139_291697	NW_004515775.1	Scaffold242	291697	GG	AA	1946930273
SNP_P4_119140_292115	NW_004515775.1	Scaffold242	292115	AA	GG	1946930275
SNP_P4_119141_301344	NW_004515775.1	Scaffold242	301344	GG	AA	1946930277
SNP_P4_119143_306972	NW_004515775.1	Scaffold242	306972	TT	CC	1946930279
SNP_P4_119145_307525	NW_004515775.1	Scaffold242	307525	AA	TT	1946930281
SNP_P4_119146_309863	NW_004515775.1	Scaffold242	309863	AA	GG	1946930283
SNP_P4_119147_310194	NW_004515775.1	Scaffold242	310194	TT	CC	1946930285
SNP_P4_119148_310372	NW_004515775.1	Scaffold242	310372	CC	GG	1946930287
SNP_P4_119149_311756	NW_004515775.1	Scaffold242	311756	AA	CC	1946930289
SNP_P4_119150_313347	NW_004515775.1	Scaffold242	313347	TT	CC	1946930291
SNP_P4_119151_315688	NW_004515775.1	Scaffold242	315688	CC	TT	1946930293
SNP_P4_119152_316002	NW_004515775.1	Scaffold242	316002	CC	AA	1946930295
SNP_P4_119156_319211	NW_004515775.1	Scaffold242	319211	TT	AA	1946930297
SNP_P4_119157_320362	NW_004515775.1	Scaffold242	320362	GG	AA	1946930299
SNP_P4_119158_320430	NW_004515775.1	Scaffold242	320430	CC	TT	1946930301
SNP_P4_119159_324719	NW_004515775.1	Scaffold242	324719	GG	TT	1946930303
SNP_P4_119160_329522	NW_004515775.1	Scaffold242	329522	AA	GG	1946930306

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_119163_336092	NW_004515775.1	Scaffold242	336092	AA	CC	1946930312
SNP_P4_119165_339146	NW_004515775.1	Scaffold242	339146	TT	CC	1946930314
SNP_P4_119166_340900	NW_004515775.1	Scaffold242	340900	GG	AA	1946930316
SNP_P4_119167_342534	NW_004515775.1	Scaffold242	342534	TT	CC	1946930318
SNP_P4_119169_344488	NW_004515775.1	Scaffold242	344488	GG	TT	1946930320
SNP_P4_119170_344529	NW_004515775.1	Scaffold242	344529	TT	GG	1946930322
SNP_P4_119171_344720	NW_004515775.1	Scaffold242	344720	TT	AA	1946930324
SNP_P4_119172_345796	NW_004515775.1	Scaffold242	345796	AA	TT	1946930326
SNP_P4_119173_353254	NW_004515775.1	Scaffold242	353254	TT	CC	1946930328
SNP_P4_119174_354694	NW_004515775.1	Scaffold242	354694	AA	TT	1946930330
SNP_P4_119175_354716	NW_004515775.1	Scaffold242	354716	TT	CC	1946930332
SNP_P4_119176_356992	NW_004515775.1	Scaffold242	356992	CC	AA	1946930334
SNP_P4_119178_357392	NW_004515775.1	Scaffold242	357392	GG	TT	1946930336
SNP_P4_119179_358213	NW_004515775.1	Scaffold242	358213	AA	GG	1946930338
SNP_P4_119180_358214	NW_004515775.1	Scaffold242	358214	AA	CC	1946930340
SNP_P4_119183_360835	NW_004515775.1	Scaffold242	360835	GG	TT	1946930343
SNP_P4_119184_361129	NW_004515775.1	Scaffold242	361129	GG	AA	1946930345
SNP_P4_119185_361195	NW_004515775.1	Scaffold242	361195	CC	TT	1946930347
SNP_P4_119186_364776	NW_004515775.1	Scaffold242	364776	CC	AA	1946930349
SNP_P4_119188_372545	NW_004515775.1	Scaffold242	372545	TT	AA	1946930351
SNP_P4_119189_372636	NW_004515775.1	Scaffold242	372636	TT	AA	1946930353
SNP_P4_119190_373076	NW_004515775.1	Scaffold242	373076	CC	GG	1946930355
SNP_P4_119191_375072	NW_004515775.1	Scaffold242	375072	AA	GG	1946930357
SNP_P4_119192_377509	NW_004515775.1	Scaffold242	377509	AA	GG	1946930359
SNP_P4_119193_382343	NW_004515775.1	Scaffold242	382343	TT	CC	1946930361
SNP_P4_119194_384574	NW_004515775.1	Scaffold242	384574	AA	GG	1946930364
SNP_P4_119195_393667	NW_004515775.1	Scaffold242	393667	AA	GG	1946930366
SNP_P4_119196_393670	NW_004515775.1	Scaffold242	393670	TT	GG	1946930368
SNP_P4_119199_394099	NW_004515775.1	Scaffold242	394099	GG	AA	1946930370
SNP_P4_119200_395101	NW_004515775.1	Scaffold242	395101	AA	GG	1946930372
SNP_P4_119201_397818	NW_004515775.1	Scaffold242	397818	CC	AA	1946930374
SNP_P4_119202_404385	NW_004515775.1	Scaffold242	404385	TT	AA	1946930376
SNP_P4_119204_405411	NW_004515775.1	Scaffold242	405411	AA	GG	1946930378
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SNP_P4_119206_405629	NW_004515775.1	Scaffold242	405629	GG	AA	1946930382
SNP_P4_119208_405879	NW_004515775.1	Scaffold242	405879	CC	GG	1946930384
SNP_P4_119209_408516	NW_004515775.1	Scaffold242	408516	AA	TT	1946930387
SNP_P4_119210_411892	NW_004515775.1	Scaffold242	411892	AA	TT	1946930389
SNP_P4_119211_411967	NW_004515775.1	Scaffold242	411967	GG	TT	1946930391
SNP_P4_119212_413765	NW_004515775.1	Scaffold242	413765	GG	AA	1946930393

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_119216_419606	NW_004515775.1	Scaffold242	419606	GG	TT	1946930398
SNP_P4_119217_419621	NW_004515775.1	Scaffold242	419621	TT	CC	1946930400
SNP_P4_119221_425574	NW_004515775.1	Scaffold242	425574	TT	CC	1946930402
SNP_P4_119222_425575	NW_004515775.1	Scaffold242	425575	AA	TT	1946930404
SNP_P4_119223_431100	NW_004515775.1	Scaffold242	431100	AA	CC	1946930406
SNP_P4_119224_439081	NW_004515775.1	Scaffold242	439081	AA	CC	1946930408
SNP_P4_119225_441152	NW_004515775.1	Scaffold242	441152	TT	CC	1946930410
SNP_P4_119226_441162	NW_004515775.1	Scaffold242	441162	CC	AA	1946930412
SNP_P4_119227_441326	NW_004515775.1	Scaffold242	441326	CC	TT	1946930414
SNP_P4_119228_442269	NW_004515775.1	Scaffold242	442269	CC	TT	1946930416
SNP_P4_119229_449828	NW_004515775.1	Scaffold242	449828	CC	GG	1946930418
SNP_P4_119230_450810	NW_004515775.1	Scaffold242	450810	GG	AA	1946930420
SNP_P4_119232_453095	NW_004515775.1	Scaffold242	453095	TT	CC	1946930422
SNP_P4_119233_453373	NW_004515775.1	Scaffold242	453373	GG	AA	1946930425
SNP_P4_119236_455617	NW_004515775.1	Scaffold242	455617	GG	AA	1946930427
SNP_P4_119237_458614	NW_004515775.1	Scaffold242	458614	AA	TT	1946930429
SNP_P4_119238_459320	NW_004515775.1	Scaffold242	459320	GG	AA	1946930432
SNP_P4_119239_460730	NW_004515775.1	Scaffold242	460730	AA	TT	1946930434
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SNP_P4_119242_460733	NW_004515775.1	Scaffold242	460733	AA	TT	1946930440
SNP_P4_119243_462075	NW_004515775.1	Scaffold242	462075	TT	GG	1946930442
SNP_P4_119244_462106	NW_004515775.1	Scaffold242	462106	TT	CC	1946930444
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SNP_P4_119250_483329	NW_004515775.1	Scaffold242	483329	CC	TT	1946930448
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SNP_P4_119253_484162	NW_004515775.1	Scaffold242	484162	CC	GG	1946930454
SNP_P4_119254_484596	NW_004515775.1	Scaffold242	484596	CC	TT	1946930456
SNP_P4_119255_489862	NW_004515775.1	Scaffold242	489862	GG	AA	1946930458
SNP_P4_119256_490765	NW_004515775.1	Scaffold242	490765	TT	GG	1946930460
SNP_P4_119258_491103	NW_004515775.1	Scaffold242	491103	GG	AA	1946930462
SNP_P4_119259_495802	NW_004515775.1	Scaffold242	495802	CC	TT	1946930464
SNP_P4_119261_503055	NW_004515775.1	Scaffold242	503055	GG	AA	1946930466
SNP_P4_119262_505838	NW_004515775.1	Scaffold242	505838	CC	TT	1946930468
SNP_P4_119263_506124	NW_004515775.1	Scaffold242	506124	TT	CC	1946930470
SNP_P4_119264_509393	NW_004515775.1	Scaffold242	509393	TT	AA	1946930472
SNP_P4_119265_509441	NW_004515775.1	Scaffold242	509441	GG	AA	1946930474
SNP_P4_119266_509530	NW_004515775.1	Scaffold242	509530	AA	TT	1946930476
SNP_P4_119267_511085	NW_004515775.1	Scaffold242	511085	AA	GG	1946930478

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_119270_517228	NW_004515775.1	Scaffold242	517228	GG	TT	1946930484
SNP_P4_119271_518631	NW_004515775.1	Scaffold242	518631	GG	AA	1946930486
SNP_P4_119272_518735	NW_004515775.1	Scaffold242	518735	TT	CC	1946930488
SNP_P4_119273_520904	NW_004515775.1	Scaffold242	520904	AA	CC	1946930491
SNP_P4_119274_522831	NW_004515775.1	Scaffold242	522831	AA	GG	1946930493
SNP_P4_119275_531999	NW_004515775.1	Scaffold242	531999	AA	GG	1946930494
SNP_P4_119276_534047	NW_004515775.1	Scaffold242	534047	TT	GG	1946930496
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SNP_P4_119278_534540	NW_004515775.1	Scaffold242	534540	GG	AA	1946930500
SNP_P4_119279_534561	NW_004515775.1	Scaffold242	534561	AA	GG	1946930502
SNP_P4_119280_535063	NW_004515775.1	Scaffold242	535063	CC	TT	1946930504
SNP_P4_119282_536901	NW_004515775.1	Scaffold242	536901	TT	CC	1946930506
SNP_P4_119283_536902	NW_004515775.1	Scaffold242	536902	CC	AA	1946930508
SNP_P4_119284_536915	NW_004515775.1	Scaffold242	536915	GG	AA	1946930510
SNP_P4_119285_537236	NW_004515775.1	Scaffold242	537236	TT	AA	1946930512
SNP_P4_119286_537327	NW_004515775.1	Scaffold242	537327	GG	AA	1946930514
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SNP_P4_119296_549812	NW_004515775.1	Scaffold242	549812	CC	AA	1946930535
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SNP_P4_119298_550446	NW_004515775.1	Scaffold242	550446	AA	TT	1946930539
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SNP_P4_119305_554343	NW_004515775.1	Scaffold242	554343	GG	AA	1946930551
SNP_P4_119306_561694	NW_004515775.1	Scaffold242	561694	AA	GG	1946930553
SNP_P4_119307_561698	NW_004515775.1	Scaffold242	561698	CC	GG	1946930555
SNP_P4_119309_561752	NW_004515775.1	Scaffold242	561752	GG	AA	1946930557
SNP_P4_119310_562110	NW_004515775.1	Scaffold242	562110	TT	CC	1946930559
SNP_P4_119311_564937	NW_004515775.1	Scaffold242	564937	TT	AA	1946930561
SNP_P4_119312_572448	NW_004515775.1	Scaffold242	572448	TT	AA	1946930563

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_119315_575301	NW_004515775.1	Scaffold242	575301	CC	TT	1946930569
SNP_P4_119316_575365	NW_004515775.1	Scaffold242	575365	CC	AA	1946930571
SNP_P4_119319_581631	NW_004515775.1	Scaffold242	581631	GG	AA	1946930573
SNP_P4_119321_591274	NW_004515775.1	Scaffold242	591274	TT	CC	1946930575
SNP_P4_119323_595541	NW_004515775.1	Scaffold242	595541	TT	AA	1946930577
SNP_P4_119324_598819	NW_004515775.1	Scaffold242	598819	TT	AA	1946930579
SNP_P4_119325_601809	NW_004515775.1	Scaffold242	601809	CC	TT	1946930581
SNP_P4_119326_604019	NW_004515775.1	Scaffold242	604019	TT	CC	1946930583
SNP_P4_119327_605479	NW_004515775.1	Scaffold242	605479	CC	AA	1946930585
SNP_P4_119328_606374	NW_004515775.1	Scaffold242	606374	CC	TT	1946930587
SNP_P4_119329_606567	NW_004515775.1	Scaffold242	606567	GG	AA	1946930590
SNP_P4_119330_606572	NW_004515775.1	Scaffold242	606572	TT	CC	1946930592
SNP_P4_119331_606580	NW_004515775.1	Scaffold242	606580	GG	AA	1946930594
SNP_P4_119332_608228	NW_004515775.1	Scaffold242	608228	AA	GG	1946930596
SNP_P4_119333_610862	NW_004515775.1	Scaffold242	610862	CC	TT	1946930598
SNP_P4_119334_612678	NW_004515775.1	Scaffold242	612678	AA	TT	1946930600
SNP_P4_119335_612707	NW_004515775.1	Scaffold242	612707	GG	AA	1946930602
SNP_P4_119336_614989	NW_004515775.1	Scaffold242	614989	TT	CC	1946930604
SNP_P4_119337_618159	NW_004515775.1	Scaffold242	618159	AA	GG	1946930606
SNP_P4_119338_618328	NW_004515775.1	Scaffold242	618328	CC	TT	1946930608
SNP_P4_119339_618584	NW_004515775.1	Scaffold242	618584	AA	GG	1946930611
SNP_P4_119340_620200	NW_004515775.1	Scaffold242	620200	CC	TT	1946930613
SNP_P4_119341_624581	NW_004515775.1	Scaffold242	624581	AA	GG	1946930615
SNP_P4_119342_624598	NW_004515775.1	Scaffold242	624598	AA	GG	1946930617
SNP_P4_119343_624631	NW_004515775.1	Scaffold242	624631	AA	GG	1946930619
SNP_P4_119344_624880	NW_004515775.1	Scaffold242	624880	CC	TT	1946930621
SNP_P4_119345_624901	NW_004515775.1	Scaffold242	624901	CC	AA	1946930623
SNP_P4_119346_624904	NW_004515775.1	Scaffold242	624904	TT	AA	1946930625
SNP_P4_119347_624922	NW_004515775.1	Scaffold242	624922	AA	CC	1946930627
SNP_P4_119348_624983	NW_004515775.1	Scaffold242	624983	TT	CC	1946930629
SNP_P4_119349_625021	NW_004515775.1	Scaffold242	625021	TT	CC	1946930631
SNP_P4_119350_625042	NW_004515775.1	Scaffold242	625042	AA	GG	1946930633
SNP_P4_119352_625293	NW_004515775.1	Scaffold242	625293	CC	TT	1946930635
SNP_P4_119353_628308	NW_004515775.1	Scaffold242	628308	TT	CC	1946930637
SNP_P4_119354_628728	NW_004515775.1	Scaffold242	628728	CC	TT	1946930639
SNP_P4_119355_629311	NW_004515775.1	Scaffold242	629311	CC	TT	1946930641
SNP_P4_119356_629671	NW_004515775.1	Scaffold242	629671	AA	GG	1946930643
SNP_P4_119357_629676	NW_004515775.1	Scaffold242	629676	CC	TT	1946930645
SNP_P4_119358_633061	NW_004515775.1	Scaffold242	633061	TT	CC	1946930647
SNP_P4_119359_633269	NW_004515775.1	Scaffold242	633269	CC	TT	1946930650

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_119362_639277	NW_004515775.1	Scaffold242	639277	TT	CC	1946930656
SNP_P4_119363_642555	NW_004515775.1	Scaffold242	642555	CC	AA	1946930658
SNP_P4_119364_644199	NW_004515775.1	Scaffold242	644199	AA	GG	1946930660
SNP_P4_119365_644288	NW_004515775.1	Scaffold242	644288	TT	CC	1946930662
SNP_P4_119366_645198	NW_004515775.1	Scaffold242	645198	GG	AA	1946930664
SNP_P4_119367_645855	NW_004515775.1	Scaffold242	645855	AA	TT	1946930666
SNP_P4_119368_646192	NW_004515775.1	Scaffold242	646192	TT	CC	1946930668
SNP_P4_119369_647158	NW_004515775.1	Scaffold242	647158	TT	GG	1946930670
SNP_P4_119370_647183	NW_004515775.1	Scaffold242	647183	CC	TT	1946930672
SNP_P4_119371_653461	NW_004515775.1	Scaffold242	653461	CC	TT	1946930674
SNP_P4_119372_653639	NW_004515775.1	Scaffold242	653639	GG	AA	1946930676
SNP_P4_119373_654369	NW_004515775.1	Scaffold242	654369	GG	AA	1946930678
SNP_P4_119374_654485	NW_004515775.1	Scaffold242	654485	AA	TT	1946930680
SNP_P4_119375_654595	NW_004515775.1	Scaffold242	654595	AA	CC	1946930683
SNP_P4_119376_654651	NW_004515775.1	Scaffold242	654651	CC	TT	1946930685
SNP_P4_119378_668457	NW_004515775.1	Scaffold242	668457	TT	CC	1946930687
SNP_P4_119379_668882	NW_004515775.1	Scaffold242	668882	CC	TT	1946930689
SNP_P4_119380_668883	NW_004515775.1	Scaffold242	668883	GG	TT	1946930691
SNP_P4_119381_670710	NW_004515775.1	Scaffold242	670710	AA	GG	1946930693
SNP_P4_119382_670917	NW_004515775.1	Scaffold242	670917	CC	TT	1946930695
SNP_P4_119383_671033	NW_004515775.1	Scaffold242	671033	AA	CC	1946930697
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SNP_P4_119385_674031	NW_004515775.1	Scaffold242	674031	AA	CC	1946930701
SNP_P4_119386_676970	NW_004515775.1	Scaffold242	676970	AA	GG	1946930703
SNP_P4_119387_678873	NW_004515775.1	Scaffold242	678873	CC	TT	1946930705
SNP_P4_119388_683695	NW_004515775.1	Scaffold242	683695	AA	CC	1946930707
SNP_P4_119389_684617	NW_004515775.1	Scaffold242	684617	AA	TT	1946930709
SNP_P4_119390_684835	NW_004515775.1	Scaffold242	684835	CC	TT	1946930711
SNP_P4_119391_684898	NW_004515775.1	Scaffold242	684898	CC	TT	1946930714
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SNP_P4_119394_687759	NW_004515775.1	Scaffold242	687759	TT	GG	1946930718
SNP_P4_119395_687836	NW_004515775.1	Scaffold242	687836	TT	AA	1946930720
SNP_P4_119396_688249	NW_004515775.1	Scaffold242	688249	GG	AA	1946930722
SNP_P4_119397_688472	NW_004515775.1	Scaffold242	688472	CC	GG	1946930724
SNP_P4_119398_690128	NW_004515775.1	Scaffold242	690128	CC	TT	1946930726
SNP_P4_119399_691351	NW_004515775.1	Scaffold242	691351	CC	TT	1946930728
SNP_P4_119400_691535	NW_004515775.1	Scaffold242	691535	TT	CC	1946930730
SNP_P4_119402_697961	NW_004515775.1	Scaffold242	697961	AA	GG	1946930732
SNP_P4_119403_697967	NW_004515775.1	Scaffold242	697967	CC	TT	1946930734
SNP_P4_119405_699163	NW_004515775.1	Scaffold242	699163	GG	AA	1946930736

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_119407_700423	NW_004515775.1	Scaffold242	700423	CC	TT	1946930741
SNP_P4_119408_701350	NW_004515775.1	Scaffold242	701350	CC	TT	1946930743
SNP_P4_119409_701537	NW_004515775.1	Scaffold242	701537	AA	GG	1946930745
SNP_P4_119410_701668	NW_004515775.1	Scaffold242	701668	CC	TT	1946930747
SNP_P4_119412_704922	NW_004515775.1	Scaffold242	704922	CC	TT	1946930749
SNP_P4_119413_704935	NW_004515775.1	Scaffold242	704935	GG	AA	1946930751
SNP_P4_119415_709621	NW_004515775.1	Scaffold242	709621	GG	AA	1946930753
SNP_P4_119419_722328	NW_004515775.1	Scaffold242	722328	GG	CC	1946930755
SNP_P4_119420_722329	NW_004515775.1	Scaffold242	722329	TT	AA	1946930757
SNP_P4_119421_730200	NW_004515775.1	Scaffold242	730200	AA	GG	1946930759
SNP_P4_119423_731222	NW_004515775.1	Scaffold242	731222	AA	CC	1946930761
SNP_P4_119424_731331	NW_004515775.1	Scaffold242	731331	TT	CC	1946930763
SNP_P4_119425_732589	NW_004515775.1	Scaffold242	732589	AA	GG	1946930765
SNP_P4_119426_734662	NW_004515775.1	Scaffold242	734662	TT	CC	1946930767
SNP_P4_119427_735409	NW_004515775.1	Scaffold242	735409	AA	TT	1946930769
SNP_P4_119428_735417	NW_004515775.1	Scaffold242	735417	CC	TT	1946930771
SNP_P4_119431_735569	NW_004515775.1	Scaffold242	735569	TT	GG	1946930773
SNP_P4_119432_735608	NW_004515775.1	Scaffold242	735608	AA	CC	1946930776
SNP_P4_119433_735804	NW_004515775.1	Scaffold242	735804	TT	CC	1946930778
SNP_P4_119434_735830	NW_004515775.1	Scaffold242	735830	TT	AA	1946930780
SNP_P4_119435_735833	NW_004515775.1	Scaffold242	735833	TT	CC	1946930782
SNP_P4_119436_735862	NW_004515775.1	Scaffold242	735862	AA	GG	1946930784
SNP_P4_119437_735867	NW_004515775.1	Scaffold242	735867	AA	GG	1946930786
SNP_P4_119438_735869	NW_004515775.1	Scaffold242	735869	TT	CC	1946930788
SNP_P4_119439_735889	NW_004515775.1	Scaffold242	735889	AA	GG	1946930790
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SNP_P4_119442_736027	NW_004515775.1	Scaffold242	736027	GG	TT	1946930797
SNP_P4_119443_736039	NW_004515775.1	Scaffold242	736039	CC	TT	1946930799
SNP_P4_119444_736042	NW_004515775.1	Scaffold242	736042	CC	GG	1946930801
SNP_P4_119445_736316	NW_004515775.1	Scaffold242	736316	AA	CC	1946930803
SNP_P4_119446_736317	NW_004515775.1	Scaffold242	736317	AA	CC	1946930805
SNP_P4_119447_736318	NW_004515775.1	Scaffold242	736318	GG	AA	1946930807
SNP_P4_119448_736320	NW_004515775.1	Scaffold242	736320	TT	CC	1946930810
SNP_P4_119449_736324	NW_004515775.1	Scaffold242	736324	AA	CC	1946930812
SNP_P4_119450_737614	NW_004515775.1	Scaffold242	737614	TT	CC	1946930814
SNP_P4_119451_737648	NW_004515775.1	Scaffold242	737648	TT	GG	1946930816
SNP_P4_119452_739672	NW_004515775.1	Scaffold242	739672	GG	AA	1946930818
SNP_P4_119453_740905	NW_004515775.1	Scaffold242	740905	AA	GG	1946930820
SNP_P4_119454_740936	NW_004515775.1	Scaffold242	740936	AA	TT	1946930822
SNP_P4_119455_741157	NW_004515775.1	Scaffold242	741157	AA	CC	1946930824

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_119457_764797	NW_004515775.1	Scaffold242	764797	AA	TT	1946930828
SNP_P4_119458_764807	NW_004515775.1	Scaffold242	764807	CC	TT	1946930830
SNP_P4_119459_765927	NW_004515775.1	Scaffold242	765927	AA	GG	1946930832
SNP_P4_119460_767644	NW_004515775.1	Scaffold242	767644	AA	GG	1946930835
SNP_P4_119462_769587	NW_004515775.1	Scaffold242	769587	AA	GG	1946930837
SNP_P4_119463_769755	NW_004515775.1	Scaffold242	769755	GG	CC	1946930839
SNP_P4_119464_773960	NW_004515775.1	Scaffold242	773960	AA	GG	1946930841
SNP_P4_119465_779202	NW_004515775.1	Scaffold242	779202	TT	CC	1946930843
SNP_P4_119466_779493	NW_004515775.1	Scaffold242	779493	TT	AA	1946930845
SNP_P4_119467_779515	NW_004515775.1	Scaffold242	779515	GG	TT	1946930847
SNP_P4_119468_783434	NW_004515775.1	Scaffold242	783434	CC	TT	1946930849
SNP_P4_119469_785100	NW_004515775.1	Scaffold242	785100	TT	GG	1946930851
SNP_P4_119470_786683	NW_004515775.1	Scaffold242	786683	TT	CC	1946930853
SNP_P4_119471_787576	NW_004515775.1	Scaffold242	787576	GG	AA	1946930855
SNP_P4_119472_787703	NW_004515775.1	Scaffold242	787703	GG	AA	1946930857
SNP_P4_119473_792473	NW_004515775.1	Scaffold242	792473	CC	AA	1946930859
SNP_P4_119474_792845	NW_004515775.1	Scaffold242	792845	AA	GG	1946930861
SNP_P4_119475_792859	NW_004515775.1	Scaffold242	792859	AA	GG	1946930863
SNP_P4_119476_792864	NW_004515775.1	Scaffold242	792864	GG	TT	1946930865
SNP_P4_119478_800774	NW_004515775.1	Scaffold242	800774	CC	TT	1946930867
SNP_P4_119479_800833	NW_004515775.1	Scaffold242	800833	GG	TT	1946930869
SNP_P4_119480_801739	NW_004515775.1	Scaffold242	801739	AA	CC	1946930871
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SNP_P4_119482_801955	NW_004515775.1	Scaffold242	801955	GG	AA	1946930875
SNP_P4_119483_801960	NW_004515775.1	Scaffold242	801960	AA	GG	1946930877
SNP_P4_119484_801991	NW_004515775.1	Scaffold242	801991	TT	CC	1946930879
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SNP_P4_119486_803008	NW_004515775.1	Scaffold242	803008	GG	AA	1946930883
SNP_P4_119487_803019	NW_004515775.1	Scaffold242	803019	GG	AA	1946930885
SNP_P4_119488_803082	NW_004515775.1	Scaffold242	803082	TT	CC	1946930887
SNP_P4_119489_803447	NW_004515775.1	Scaffold242	803447	AA	TT	1946930889
SNP_P4_119490_804124	NW_004515775.1	Scaffold242	804124	AA	CC	1946930891
SNP_P4_119493_804360	NW_004515775.1	Scaffold242	804360	GG	AA	1946930893
SNP_P4_119494_804366	NW_004515775.1	Scaffold242	804366	GG	CC	1946930895
SNP_P4_119495_804939	NW_004515775.1	Scaffold242	804939	CC	AA	1946930897
SNP_P4_119496_804968	NW_004515775.1	Scaffold242	804968	AA	GG	1946930898
SNP_P4_119497_804978	NW_004515775.1	Scaffold242	804978	TT	AA	1946930899
SNP_P4_119498_805112	NW_004515775.1	Scaffold242	805112	GG	AA	1946930900
SNP_P4_119499_805333	NW_004515775.1	Scaffold242	805333	GG	TT	1946930901
SNP_P4_119500_810235	NW_004515775.1	Scaffold242	810235	CC	TT	1946930902
SNP_P4_119501_811165	NW_004515775.1	Scaffold242	811165	CC	AA	1946930903

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_119503_813151	NW_004515775.1	Scaffold242	813151	GG	AA	1946930907
SNP_P4_119504_813172	NW_004515775.1	Scaffold242	813172	TT	CC	1946930909
SNP_P4_119505_813207	NW_004515775.1	Scaffold242	813207	AA	TT	1946930911
SNP_P4_119506_813399	NW_004515775.1	Scaffold242	813399	GG	AA	1946930913
SNP_P4_119507_813432	NW_004515775.1	Scaffold242	813432	AA	GG	1946930915
SNP_P4_119508_815605	NW_004515775.1	Scaffold242	815605	CC	AA	1946930917
SNP_P4_119509_821018	NW_004515775.1	Scaffold242	821018	AA	TT	1946930919
SNP_P4_119510_821049	NW_004515775.1	Scaffold242	821049	GG	AA	1946930921
SNP_P4_119511_407	NW_004515776.1	Scaffold243	407	AA	GG	1946930923
SNP_P4_119512_531	NW_004515776.1	Scaffold243	531	TT	CC	1946930925
SNP_P4_119513_14245	NW_004515777.1	Scaffold244	14245	TT	CC	1946930927
SNP_P4_119514_293	NW_004515778.1	Scaffold246	293	GG	AA	1946930929
SNP_P4_119515_461	NW_004515778.1	Scaffold246	461	GG	TT	1946930931
SNP_P4_119516_36001	NW_004515778.1	Scaffold246	36001	TT	CC	1946930933
SNP_P4_119517_36183	NW_004515778.1	Scaffold246	36183	AA	TT	1946930935
SNP_P4_119518_48171	NW_004515778.1	Scaffold246	48171	CC	TT	1946930937
SNP_P4_119519_48174	NW_004515778.1	Scaffold246	48174	TT	CC	1946930939
SNP_P4_119520_48193	NW_004515778.1	Scaffold246	48193	TT	GG	1946930941
SNP_P4_119521_55047	NW_004515778.1	Scaffold246	55047	GG	AA	1946930943
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SNP_P4_119523_55214	NW_004515778.1	Scaffold246	55214	GG	TT	1946930947
SNP_P4_119524_55227	NW_004515778.1	Scaffold246	55227	AA	CC	1946930949
SNP_P4_119525_55240	NW_004515778.1	Scaffold246	55240	TT	CC	1946930951
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SNP_P4_119528_55471	NW_004515778.1	Scaffold246	55471	CC	TT	1946930957
SNP_P4_119529_55492	NW_004515778.1	Scaffold246	55492	TT	AA	1946930959
SNP_P4_119530_56286	NW_004515778.1	Scaffold246	56286	TT	GG	1946930961
SNP_P4_119531_61007	NW_004515778.1	Scaffold246	61007	AA	TT	1946930964
SNP_P4_119532_61047	NW_004515778.1	Scaffold246	61047	TT	GG	1946930966
SNP_P4_119533_62821	NW_004515778.1	Scaffold246	62821	TT	CC	1946930968
SNP_P4_119534_62862	NW_004515778.1	Scaffold246	62862	TT	GG	1946930970
SNP_P4_119535_62870	NW_004515778.1	Scaffold246	62870	AA	GG	1946930972
SNP_P4_119536_67410	NW_004515778.1	Scaffold246	67410	AA	GG	1946930974
SNP_P4_119537_67432	NW_004515778.1	Scaffold246	67432	CC	TT	1946930976
SNP_P4_119538_67511	NW_004515778.1	Scaffold246	67511	TT	GG	1946930978
SNP_P4_119539_67572	NW_004515778.1	Scaffold246	67572	GG	AA	1946930981
SNP_P4_119540_67664	NW_004515778.1	Scaffold246	67664	TT	CC	1946930983
SNP_P4_119541_67896	NW_004515778.1	Scaffold246	67896	TT	CC	1946930985
SNP_P4_119542_1489	NW_004515779.1	Scaffold249	1489	TT	GG	1946930987
SNP_P4_119543_1566	NW_004515779.1	Scaffold249	1566	TT	GG	1946930989

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_119546_4252	NW_004515779.1	Scaffold249	4252	GG	AA	1946930995
SNP_P4_119547_4408	NW_004515779.1	Scaffold249	4408	CC	TT	1946930997
SNP_P4_119548_4447	NW_004515779.1	Scaffold249	4447	TT	CC	1946931000
SNP_P4_119549_4488	NW_004515779.1	Scaffold249	4488	TT	AA	1946931002
SNP_P4_119550_4583	NW_004515779.1	Scaffold249	4583	TT	AA	1946931004
SNP_P4_119551_18469	NW_004515779.1	Scaffold249	18469	GG	TT	1946931006
SNP_P4_119552_20258	NW_004515779.1	Scaffold249	20258	CC	AA	1946931008
SNP_P4_119553_20277	NW_004515779.1	Scaffold249	20277	GG	AA	1946931010
SNP_P4_119554_20286	NW_004515779.1	Scaffold249	20286	TT	AA	1946931012
SNP_P4_119556_23864	NW_004515779.1	Scaffold249	23864	AA	TT	1946931014
SNP_P4_119557_23956	NW_004515779.1	Scaffold249	23956	AA	TT	1946931016
SNP_P4_119558_29519	NW_004515779.1	Scaffold249	29519	AA	GG	1946931018
SNP_P4_119559_31507	NW_004515779.1	Scaffold249	31507	AA	TT	1946931020
SNP_P4_119560_45070	NW_004515779.1	Scaffold249	45070	CC	AA	1946931022
SNP_P4_119561_54034	NW_004515779.1	Scaffold249	54034	TT	CC	1946931024
SNP_P4_119562_54088	NW_004515779.1	Scaffold249	54088	CC	TT	1946931026
SNP_P4_119563_54094	NW_004515779.1	Scaffold249	54094	TT	GG	1946931028
SNP_P4_119564_54100	NW_004515779.1	Scaffold249	54100	CC	AA	1946931031
SNP_P4_119565_54126	NW_004515779.1	Scaffold249	54126	GG	CC	1946931033
SNP_P4_119566_54160	NW_004515779.1	Scaffold249	54160	AA	CC	1946931035
SNP_P4_119568_54166	NW_004515779.1	Scaffold249	54166	AA	TT	1946931037
SNP_P4_119569_54200	NW_004515779.1	Scaffold249	54200	AA	CC	1946931040
SNP_P4_119570_54225	NW_004515779.1	Scaffold249	54225	TT	GG	1946931042
SNP_P4_119571_54229	NW_004515779.1	Scaffold249	54229	CC	TT	1946931044
SNP_P4_119572_54338	NW_004515779.1	Scaffold249	54338	TT	AA	1946931046
SNP_P4_119573_54343	NW_004515779.1	Scaffold249	54343	TT	CC	1946931048
SNP_P4_119574_54418	NW_004515779.1	Scaffold249	54418	AA	GG	1946931050
SNP_P4_119575_54447	NW_004515779.1	Scaffold249	54447	TT	GG	1946931052
SNP_P4_119576_54461	NW_004515779.1	Scaffold249	54461	GG	AA	1946931054
SNP_P4_119577_54485	NW_004515779.1	Scaffold249	54485	TT	AA	1946931056
SNP_P4_119578_56993	NW_004515779.1	Scaffold249	56993	AA	TT	1946931058
SNP_P4_119579_68917	NW_004515779.1	Scaffold249	68917	TT	CC	1946931060
SNP_P4_119581_73316	NW_004515779.1	Scaffold249	73316	AA	GG	1946931062
SNP_P4_119582_73317	NW_004515779.1	Scaffold249	73317	CC	TT	1946931064
SNP_P4_119583_73541	NW_004515779.1	Scaffold249	73541	CC	GG	1946931066
SNP_P4_119584_73553	NW_004515779.1	Scaffold249	73553	AA	CC	1946931068
SNP_P4_119585_73635	NW_004515779.1	Scaffold249	73635	GG	AA	1946931070
SNP_P4_119586_73679	NW_004515779.1	Scaffold249	73679	AA	TT	1946931072
SNP_P4_119587_73862	NW_004515779.1	Scaffold249	73862	AA	GG	1946931074
SNP_P4_119588_89440	NW_004515779.1	Scaffold249	89440	AA	TT	1946931076

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_119590_89453	NW_004515779.1	Scaffold249	89453	AA	TT	1946931080
SNP_P4_119591_89471	NW_004515779.1	Scaffold249	89471	AA	GG	1946931082
SNP_P4_119592_89472	NW_004515779.1	Scaffold249	89472	AA	TT	1946931084
SNP_P4_119593_89474	NW_004515779.1	Scaffold249	89474	GG	AA	1946931086
SNP_P4_119594_89483	NW_004515779.1	Scaffold249	89483	CC	AA	1946931088
SNP_P4_119595_89486	NW_004515779.1	Scaffold249	89486	CC	AA	1946931090
SNP_P4_119596_89495	NW_004515779.1	Scaffold249	89495	TT	CC	1946931092
SNP_P4_119597_89743	NW_004515779.1	Scaffold249	89743	CC	TT	1946931094
SNP_P4_119598_91730	NW_004515779.1	Scaffold249	91730	CC	TT	1946931096
SNP_P4_119599_108852	NW_004515779.1	Scaffold249	108852	TT	AA	1946931098
SNP_P4_119600_120154	NW_004515779.1	Scaffold249	120154	TT	AA	1946931100
SNP_P4_119601_122344	NW_004515779.1	Scaffold249	122344	AA	GG	1946931102
SNP_P4_119602_122349	NW_004515779.1	Scaffold249	122349	AA	GG	1946931104
SNP_P4_119603_140938	NW_004515779.1	Scaffold249	140938	TT	AA	1946931106
SNP_P4_119604_141144	NW_004515779.1	Scaffold249	141144	GG	AA	1946931108
SNP_P4_119605_141178	NW_004515779.1	Scaffold249	141178	AA	GG	1946931110
SNP_P4_119606_141355	NW_004515779.1	Scaffold249	141355	CC	TT	1946931112
SNP_P4_119607_141536	NW_004515779.1	Scaffold249	141536	AA	GG	1946931114
SNP_P4_119608_141939	NW_004515779.1	Scaffold249	141939	AA	GG	1946931116
SNP_P4_119609_141976	NW_004515779.1	Scaffold249	141976	GG	AA	1946931118
SNP_P4_119610_142049	NW_004515779.1	Scaffold249	142049	TT	AA	1946931120
SNP_P4_119611_142136	NW_004515779.1	Scaffold249	142136	AA	GG	1946931122
SNP_P4_119612_142326	NW_004515779.1	Scaffold249	142326	CC	AA	1946931124
SNP_P4_119614_144894	NW_004515779.1	Scaffold249	144894	AA	TT	1946931126
SNP_P4_119615_145053	NW_004515779.1	Scaffold249	145053	CC	TT	1946931128
SNP_P4_119616_145121	NW_004515779.1	Scaffold249	145121	CC	GG	1946931130
SNP_P4_119617_145148	NW_004515779.1	Scaffold249	145148	GG	CC	1946931132
SNP_P4_119618_145171	NW_004515779.1	Scaffold249	145171	CC	AA	1946931135
SNP_P4_119619_145313	NW_004515779.1	Scaffold249	145313	TT	AA	1946931137
SNP_P4_119620_145373	NW_004515779.1	Scaffold249	145373	TT	AA	1946931139
SNP_P4_119622_145507	NW_004515779.1	Scaffold249	145507	AA	GG	1946931141
SNP_P4_119623_145546	NW_004515779.1	Scaffold249	145546	AA	TT	1946931143
SNP_P4_119624_145559	NW_004515779.1	Scaffold249	145559	AA	TT	1946931145
SNP_P4_119625_145652	NW_004515779.1	Scaffold249	145652	AA	TT	1946931147
SNP_P4_119626_145686	NW_004515779.1	Scaffold249	145686	CC	AA	1946931149
SNP_P4_119627_145688	NW_004515779.1	Scaffold249	145688	AA	CC	1946931151
SNP_P4_119628_145689	NW_004515779.1	Scaffold249	145689	GG	CC	1946931153
SNP_P4_119629_145693	NW_004515779.1	Scaffold249	145693	GG	AA	1946931155
SNP_P4_119630_145703	NW_004515779.1	Scaffold249	145703	TT	CC	1946931157
SNP_P4_119631_145713	NW_004515779.1	Scaffold249	145713	AA	CC	1946931159
SNP_P4_119632_145820	NW_004515779.1	Scaffold249	145820	TT	AA	1946931161

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_119633_145894	NW_004515779.1	Scaffold249	145894	TT	GG	1946931163
SNP_P4_119634_145919	NW_004515779.1	Scaffold249	145919	GG	AA	1946931165
SNP_P4_119635_145934	NW_004515779.1	Scaffold249	145934	GG	CC	1946931167
SNP_P4_119636_145940	NW_004515779.1	Scaffold249	145940	AA	GG	1946931169
SNP_P4_119638_152972	NW_004515779.1	Scaffold249	152972	AA	GG	1946931171
SNP_P4_119639_155183	NW_004515779.1	Scaffold249	155183	CC	AA	1946931173
SNP_P4_119640_167333	NW_004515779.1	Scaffold249	167333	AA	GG	1946931175
SNP_P4_119641_168950	NW_004515779.1	Scaffold249	168950	CC	TT	1946931177
SNP_P4_119642_169061	NW_004515779.1	Scaffold249	169061	AA	CC	1946931179
SNP_P4_119643_169081	NW_004515779.1	Scaffold249	169081	GG	TT	1946931181
SNP_P4_119644_169104	NW_004515779.1	Scaffold249	169104	TT	AA	1946931183
SNP_P4_119645_169124	NW_004515779.1	Scaffold249	169124	AA	TT	1946931185
SNP_P4_119646_169126	NW_004515779.1	Scaffold249	169126	AA	GG	1946931187
SNP_P4_119647_169191	NW_004515779.1	Scaffold249	169191	TT	GG	1946931189
SNP_P4_119648_170588	NW_004515779.1	Scaffold249	170588	TT	CC	1946931191
SNP_P4_119649_170606	NW_004515779.1	Scaffold249	170606	CC	TT	1946931193
SNP_P4_119650_170676	NW_004515779.1	Scaffold249	170676	AA	TT	1946931195
SNP_P4_119651_170685	NW_004515779.1	Scaffold249	170685	CC	TT	1946931197
SNP_P4_119652_171281	NW_004515779.1	Scaffold249	171281	TT	CC	1946931199
SNP_P4_119653_184443	NW_004515779.1	Scaffold249	184443	GG	AA	1946931201
SNP_P4_119654_189874	NW_004515779.1	Scaffold249	189874	GG	AA	1946931203
SNP_P4_119655_190087	NW_004515779.1	Scaffold249	190087	AA	CC	1946931205
SNP_P4_119656_190281	NW_004515779.1	Scaffold249	190281	TT	GG	1946931207
SNP_P4_119657_191502	NW_004515779.1	Scaffold249	191502	GG	CC	1946931209
SNP_P4_119658_191583	NW_004515779.1	Scaffold249	191583	AA	TT	1946931211
SNP_P4_119660_610	NW_004515780.1	Scaffold250	610	AA	GG	1946931213
SNP_P4_119662_29156	NW_004515780.1	Scaffold250	29156	AA	GG	1946931215
SNP_P4_119663_42295	NW_004515780.1	Scaffold250	42295	TT	CC	1946931217
SNP_P4_119664_42503	NW_004515780.1	Scaffold250	42503	CC	GG	1946931219
SNP_P4_119665_53265	NW_004515780.1	Scaffold250	53265	AA	GG	1946931221
SNP_P4_119666_77484	NW_004515780.1	Scaffold250	77484	TT	CC	1946931223
SNP_P4_119667_77506	NW_004515780.1	Scaffold250	77506	AA	GG	1946931225
SNP_P4_119668_77544	NW_004515780.1	Scaffold250	77544	AA	CC	1946931227
SNP_P4_119669_77547	NW_004515780.1	Scaffold250	77547	TT	CC	1946931229
SNP_P4_119670_77549	NW_004515780.1	Scaffold250	77549	TT	CC	1946931231
SNP_P4_119671_77709	NW_004515780.1	Scaffold250	77709	CC	TT	1946931233
SNP_P4_119672_77710	NW_004515780.1	Scaffold250	77710	AA	TT	1946931235
SNP_P4_119673_77751	NW_004515780.1	Scaffold250	77751	TT	CC	1946931237
SNP_P4_119674_77760	NW_004515780.1	Scaffold250	77760	AA	CC	1946931239
SNP_P4_119675_77788	NW_004515780.1	Scaffold250	77788	TT	CC	1946931241
SNP_P4_119676_77794	NW_004515780.1	Scaffold250	77794	TT	CC	1946931243
SNP_P4_119677_77808	NW_004515780.1	Scaffold250	77808	AA	GG	1946931245

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_119679_82172	NW_004515780.1	Scaffold250	82172	AA	GG	1946931249
SNP_P4_119680_82178	NW_004515780.1	Scaffold250	82178	CC	AA	1946931251
SNP_P4_119681_82252	NW_004515780.1	Scaffold250	82252	CC	TT	1946931254
SNP_P4_119682_82612	NW_004515780.1	Scaffold250	82612	AA	CC	1946931256
SNP_P4_119685_91049	NW_004515780.1	Scaffold250	91049	GG	AA	1946931258
SNP_P4_119686_120862	NW_004515780.1	Scaffold250	120862	AA	CC	1946931260
SNP_P4_119687_655	NW_004515781.1	Scaffold251	655	TT	CC	1946931262
SNP_P4_119688_693	NW_004515781.1	Scaffold251	693	AA	TT	1946931264
SNP_P4_119689_878	NW_004515781.1	Scaffold251	878	GG	AA	1946931266
SNP_P4_119690_957	NW_004515781.1	Scaffold251	957	AA	GG	1946931268
SNP_P4_119691_2669	NW_004515781.1	Scaffold251	2669	AA	CC	1946931270
SNP_P4_119692_3060	NW_004515781.1	Scaffold251	3060	AA	TT	1946931272
SNP_P4_119693_8307	NW_004515781.1	Scaffold251	8307	CC	TT	1946931274
SNP_P4_119694_9966	NW_004515781.1	Scaffold251	9966	GG	AA	1946931276
SNP_P4_119695_2175	NW_004515782.1	Scaffold253	2175	CC	GG	1946931278
SNP_P4_119696_2189	NW_004515782.1	Scaffold253	2189	AA	TT	1946931280
SNP_P4_119697_2264	NW_004515782.1	Scaffold253	2264	CC	TT	1946931282
SNP_P4_119698_184	NW_004515783.1	Scaffold254	184	AA	GG	1946931284
SNP_P4_119699_559	NW_004515783.1	Scaffold254	559	CC	GG	1946931287
SNP_P4_119700_8917	NW_004515784.1	Scaffold255	8917	CC	TT	1946931289
SNP_P4_119701_8923	NW_004515784.1	Scaffold255	8923	GG	AA	1946931291
SNP_P4_119702_8929	NW_004515784.1	Scaffold255	8929	AA	GG	1946931293
SNP_P4_119703_8958	NW_004515784.1	Scaffold255	8958	CC	TT	1946931295
SNP_P4_119704_8974	NW_004515784.1	Scaffold255	8974	GG	AA	1946931297
SNP_P4_119705_9046	NW_004515784.1	Scaffold255	9046	AA	GG	1946931299
SNP_P4_119706_9061	NW_004515784.1	Scaffold255	9061	TT	CC	1946931301
SNP_P4_119707_9263	NW_004515784.1	Scaffold255	9263	AA	GG	1946931303
SNP_P4_119708_9280	NW_004515784.1	Scaffold255	9280	TT	CC	1946931305
SNP_P4_119709_9304	NW_004515784.1	Scaffold255	9304	TT	GG	1946931308
SNP_P4_119710_9347	NW_004515784.1	Scaffold255	9347	AA	CC	1946931310
SNP_P4_119711_9355	NW_004515784.1	Scaffold255	9355	AA	GG	1946931312
SNP_P4_119712_9370	NW_004515784.1	Scaffold255	9370	TT	GG	1946931314
SNP_P4_119713_9383	NW_004515784.1	Scaffold255	9383	TT	CC	1946931316
SNP_P4_119714_9406	NW_004515784.1	Scaffold255	9406	TT	AA	1946931318
SNP_P4_119715_9409	NW_004515784.1	Scaffold255	9409	AA	GG	1946931320
SNP_P4_119716_9418	NW_004515784.1	Scaffold255	9418	AA	GG	1946931322
SNP_P4_119717_10575	NW_004515784.1	Scaffold255	10575	GG	AA	1946931324
SNP_P4_119718_10645	NW_004515784.1	Scaffold255	10645	AA	TT	1946931327
SNP_P4_119719_10812	NW_004515784.1	Scaffold255	10812	CC	TT	1946931329
SNP_P4_119720_11317	NW_004515784.1	Scaffold255	11317	GG	CC	1946931331
SNP_P4_119721_45931	NW_004515784.1	Scaffold255	45931	AA	GG	1946931333

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_119723_46259	NW_004515784.1	Scaffold255	46259	TT	AA	1946931337
SNP_P4_119724_46279	NW_004515784.1	Scaffold255	46279	GG	AA	1946931339
SNP_P4_119725_48135	NW_004515784.1	Scaffold255	48135	AA	TT	1946931341
SNP_P4_119726_51325	NW_004515784.1	Scaffold255	51325	AA	TT	1946931343
SNP_P4_119727_51621	NW_004515784.1	Scaffold255	51621	TT	CC	1946931345
SNP_P4_119728_69813	NW_004515784.1	Scaffold255	69813	AA	GG	1946931347
SNP_P4_119729_70113	NW_004515784.1	Scaffold255	70113	TT	CC	1946931349
SNP_P4_119730_70327	NW_004515784.1	Scaffold255	70327	AA	CC	1946931351
SNP_P4_119731_70347	NW_004515784.1	Scaffold255	70347	AA	CC	1946931353
SNP_P4_119732_70412	NW_004515784.1	Scaffold255	70412	CC	TT	1946931355
SNP_P4_119733_79278	NW_004515784.1	Scaffold255	79278	CC	AA	1946931357
SNP_P4_119734_79358	NW_004515784.1	Scaffold255	79358	AA	TT	1946931359
SNP_P4_119735_79497	NW_004515784.1	Scaffold255	79497	CC	GG	1946931361
SNP_P4_119736_79510	NW_004515784.1	Scaffold255	79510	TT	GG	1946931363
SNP_P4_119737_85719	NW_004515784.1	Scaffold255	85719	TT	GG	1946931365
SNP_P4_119738_85720	NW_004515784.1	Scaffold255	85720	AA	GG	1946931367
SNP_P4_119739_1967	NW_004515785.1	Scaffold256	1967	TT	CC	1946931369
SNP_P4_119740_2438	NW_004515785.1	Scaffold256	2438	AA	TT	1946931371
SNP_P4_119741_3499	NW_004515785.1	Scaffold256	3499	CC	TT	1946931373
SNP_P4_119742_10480	NW_004515785.1	Scaffold256	10480	TT	CC	1946931375
SNP_P4_119743_10550	NW_004515785.1	Scaffold256	10550	CC	TT	1946931377
SNP_P4_119744_10578	NW_004515785.1	Scaffold256	10578	AA	TT	1946931379
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SNP_P4_119746_10865	NW_004515785.1	Scaffold256	10865	AA	CC	1946931383
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SNP_P4_119750_43641	NW_004515785.1	Scaffold256	43641	GG	AA	1946931387
SNP_P4_119751_43698	NW_004515785.1	Scaffold256	43698	CC	AA	1946931389
SNP_P4_119752_43702	NW_004515785.1	Scaffold256	43702	CC	TT	1946931391
SNP_P4_119753_43742	NW_004515785.1	Scaffold256	43742	GG	AA	1946931393
SNP_P4_119754_43760	NW_004515785.1	Scaffold256	43760	TT	AA	1946931395
SNP_P4_119755_44157	NW_004515785.1	Scaffold256	44157	GG	TT	1946931397
SNP_P4_119756_44165	NW_004515785.1	Scaffold256	44165	GG	AA	1946931399
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SNP_P4_119759_61884	NW_004515785.1	Scaffold256	61884	AA	GG	1946931405
SNP_P4_119760_62209	NW_004515785.1	Scaffold256	62209	TT	CC	1946931407
SNP_P4_119761_62211	NW_004515785.1	Scaffold256	62211	TT	GG	1946931409
SNP_P4_119762_74112	NW_004515785.1	Scaffold256	74112	TT	AA	1946931411
SNP_P4_119763_87744	NW_004515785.1	Scaffold256	87744	TT	CC	1946931413
SNP_P4_119764_92137	NW_004515785.1	Scaffold256	92137	GG	AA	1946931415
SNP_P4_119765_101362	NW_004515785.1	Scaffold256	101362	CC	GG	1946931417

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_119767_101455	NW_004515785.1	Scaffold256	101455	AA	GG	1946931421
SNP_P4_119768_101476	NW_004515785.1	Scaffold256	101476	CC	TT	1946931423
SNP_P4_119769_101621	NW_004515785.1	Scaffold256	101621	CC	AA	1946931425
SNP_P4_119770_101663	NW_004515785.1	Scaffold256	101663	TT	AA	1946931427
SNP_P4_119771_101707	NW_004515785.1	Scaffold256	101707	TT	CC	1946931429
SNP_P4_119772_101719	NW_004515785.1	Scaffold256	101719	AA	TT	1946931431
SNP_P4_119773_101724	NW_004515785.1	Scaffold256	101724	TT	AA	1946931433
SNP_P4_119774_101898	NW_004515785.1	Scaffold256	101898	TT	CC	1946931435
SNP_P4_119775_108516	NW_004515785.1	Scaffold256	108516	TT	GG	1946931437
SNP_P4_119776_108517	NW_004515785.1	Scaffold256	108517	CC	AA	1946931439
SNP_P4_119777_111700	NW_004515785.1	Scaffold256	111700	GG	AA	1946931441
SNP_P4_119778_111711	NW_004515785.1	Scaffold256	111711	GG	AA	1946931443
SNP_P4_119779_113670	NW_004515785.1	Scaffold256	113670	TT	GG	1946931445
SNP_P4_119781_152599	NW_004515785.1	Scaffold256	152599	TT	CC	1946931447
SNP_P4_119782_171559	NW_004515785.1	Scaffold256	171559	TT	CC	1946931449
SNP_P4_119783_171607	NW_004515785.1	Scaffold256	171607	AA	GG	1946931451
SNP_P4_119784_171861	NW_004515785.1	Scaffold256	171861	AA	GG	1946931454
SNP_P4_119785_171893	NW_004515785.1	Scaffold256	171893	AA	TT	1946931456
SNP_P4_119786_171952	NW_004515785.1	Scaffold256	171952	CC	TT	1946931458
SNP_P4_119787_1338	NW_004515786.1	Scaffold260	1338	TT	AA	1946931460
SNP_P4_119788_1341	NW_004515786.1	Scaffold260	1341	GG	TT	1946931462
SNP_P4_119789_1342	NW_004515786.1	Scaffold260	1342	TT	CC	1946931464
SNP_P4_119790_1356	NW_004515786.1	Scaffold260	1356	TT	CC	1946931466
SNP_P4_119791_1628	NW_004515786.1	Scaffold260	1628	TT	AA	1946931468
SNP_P4_119792_1646	NW_004515786.1	Scaffold260	1646	CC	TT	1946931470
SNP_P4_119794_1933	NW_004515786.1	Scaffold260	1933	TT	CC	1946931472
SNP_P4_119795_4675	NW_004515786.1	Scaffold260	4675	GG	AA	1946931474
SNP_P4_119796_4726	NW_004515786.1	Scaffold260	4726	GG	AA	1946931477
SNP_P4_119797_4732	NW_004515786.1	Scaffold260	4732	TT	GG	1946931479
SNP_P4_119798_4748	NW_004515786.1	Scaffold260	4748	GG	AA	1946931481
SNP_P4_119799_15986	NW_004515786.1	Scaffold260	15986	CC	AA	1946931483
SNP_P4_119800_17634	NW_004515786.1	Scaffold260	17634	GG	AA	1946931485
SNP_P4_119802_58220	NW_004515786.1	Scaffold260	58220	TT	CC	1946931487
SNP_P4_119803_58600	NW_004515786.1	Scaffold260	58600	AA	CC	1946931489
SNP_P4_119805_65031	NW_004515786.1	Scaffold260	65031	TT	AA	1946931491
SNP_P4_119806_65035	NW_004515786.1	Scaffold260	65035	AA	TT	1946931493
SNP_P4_119807_65048	NW_004515786.1	Scaffold260	65048	CC	TT	1946931495
SNP_P4_119808_65317	NW_004515786.1	Scaffold260	65317	TT	AA	1946931497
SNP_P4_119809_65327	NW_004515786.1	Scaffold260	65327	GG	TT	1946931499
SNP_P4_119810_65329	NW_004515786.1	Scaffold260	65329	AA	TT	1946931501
SNP_P4_119811_65332	NW_004515786.1	Scaffold260	65332	TT	AA	1946931503

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_119812_65498	NW_004515786.1	Scaffold260	65498	GG	AA	1946931505
SNP_P4_119814_74898	NW_004515786.1	Scaffold260	74898	TT	CC	1946931507
SNP_P4_119815_75301	NW_004515786.1	Scaffold260	75301	CC	TT	1946931510
SNP_P4_119816_87518	NW_004515786.1	Scaffold260	87518	GG	AA	1946931512
SNP_P4_119817_90279	NW_004515786.1	Scaffold260	90279	TT	AA	1946931514
SNP_P4_119818_144930	NW_004515786.1	Scaffold260	144930	TT	AA	1946931516
SNP_P4_119819_145378	NW_004515786.1	Scaffold260	145378	GG	AA	1946931518
SNP_P4_119820_148487	NW_004515786.1	Scaffold260	148487	GG	AA	1946931520
SNP_P4_119821_150743	NW_004515786.1	Scaffold260	150743	AA	CC	1946931522
SNP_P4_119822_160438	NW_004515786.1	Scaffold260	160438	AA	CC	1946931524
SNP_P4_119823_174326	NW_004515786.1	Scaffold260	174326	AA	GG	1946931526
SNP_P4_119824_181849	NW_004515786.1	Scaffold260	181849	GG	AA	1946931528
SNP_P4_119825_189480	NW_004515786.1	Scaffold260	189480	CC	AA	1946931530
SNP_P4_119826_192170	NW_004515786.1	Scaffold260	192170	CC	TT	1946931532
SNP_P4_119827_192711	NW_004515786.1	Scaffold260	192711	CC	TT	1946931534
SNP_P4_119828_205043	NW_004515786.1	Scaffold260	205043	AA	CC	1946931536
SNP_P4_119829_205263	NW_004515786.1	Scaffold260	205263	AA	GG	1946931538
SNP_P4_119830_205287	NW_004515786.1	Scaffold260	205287	TT	CC	1946931540
SNP_P4_119831_209408	NW_004515786.1	Scaffold260	209408	AA	TT	1946931542
SNP_P4_119832_210669	NW_004515786.1	Scaffold260	210669	GG	AA	1946931544
SNP_P4_119833_219507	NW_004515786.1	Scaffold260	219507	GG	AA	1946931546
SNP_P4_119834_233641	NW_004515786.1	Scaffold260	233641	CC	TT	1946931548
SNP_P4_119835_233674	NW_004515786.1	Scaffold260	233674	GG	TT	1946931550
SNP_P4_119836_233704	NW_004515786.1	Scaffold260	233704	CC	TT	1946931552
SNP_P4_119837_237174	NW_004515786.1	Scaffold260	237174	TT	CC	1946931554
SNP_P4_119838_237198	NW_004515786.1	Scaffold260	237198	TT	CC	1946931556
SNP_P4_119839_237218	NW_004515786.1	Scaffold260	237218	AA	GG	1946931558
SNP_P4_119840_257318	NW_004515786.1	Scaffold260	257318	TT	CC	1946931560
SNP_P4_119841_267253	NW_004515786.1	Scaffold260	267253	GG	AA	1946931562
SNP_P4_119842_274867	NW_004515786.1	Scaffold260	274867	TT	GG	1946931564
SNP_P4_119843_274868	NW_004515786.1	Scaffold260	274868	GG	TT	1946931566
SNP_P4_119844_278212	NW_004515786.1	Scaffold260	278212	AA	GG	1946931568
SNP_P4_119845_286663	NW_004515786.1	Scaffold260	286663	GG	AA	1946931570
SNP_P4_119846_286693	NW_004515786.1	Scaffold260	286693	AA	GG	1946931572
SNP_P4_119847_330698	NW_004515786.1	Scaffold260	330698	AA	GG	1946931574
SNP_P4_119849_349242	NW_004515786.1	Scaffold260	349242	TT	CC	1946931576
SNP_P4_119850_349270	NW_004515786.1	Scaffold260	349270	TT	AA	1946931578
SNP_P4_119851_354873	NW_004515786.1	Scaffold260	354873	CC	TT	1946931580
SNP_P4_119852_354876	NW_004515786.1	Scaffold260	354876	TT	AA	1946931582
SNP_P4_119853_354892	NW_004515786.1	Scaffold260	354892	CC	TT	1946931585
SNP_P4_119854_354924	NW_004515786.1	Scaffold260	354924	AA	TT	1946931587
SNP_P4_119855_354927	NW_004515786.1	Scaffold260	354927	AA	GG	1946931589

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_119857_355036	NW_004515786.1	Scaffold260	355036	AA	CC	1946931593
SNP_P4_119858_355296	NW_004515786.1	Scaffold260	355296	TT	CC	1946931595
SNP_P4_119859_355609	NW_004515786.1	Scaffold260	355609	TT	AA	1946931598
SNP_P4_119861_355751	NW_004515786.1	Scaffold260	355751	AA	GG	1946931600
SNP_P4_119862_355757	NW_004515786.1	Scaffold260	355757	CC	TT	1946931602
SNP_P4_119863_355774	NW_004515786.1	Scaffold260	355774	TT	CC	1946931604
SNP_P4_119864_356023	NW_004515786.1	Scaffold260	356023	GG	AA	1946931606
SNP_P4_119865_356176	NW_004515786.1	Scaffold260	356176	CC	AA	1946931608
SNP_P4_119866_356191	NW_004515786.1	Scaffold260	356191	TT	CC	1946931610
SNP_P4_119867_356252	NW_004515786.1	Scaffold260	356252	TT	CC	1946931611
SNP_P4_119868_356289	NW_004515786.1	Scaffold260	356289	AA	TT	1946931612
SNP_P4_119869_356532	NW_004515786.1	Scaffold260	356532	AA	GG	1946931613
SNP_P4_119870_356544	NW_004515786.1	Scaffold260	356544	CC	AA	1946931614
SNP_P4_119872_356640	NW_004515786.1	Scaffold260	356640	CC	TT	1946931615
SNP_P4_119873_356730	NW_004515786.1	Scaffold260	356730	AA	GG	1946931616
SNP_P4_119874_415172	NW_004515786.1	Scaffold260	415172	TT	CC	1946931617
SNP_P4_119875_415590	NW_004515786.1	Scaffold260	415590	GG	TT	1946931619
SNP_P4_119876_419372	NW_004515786.1	Scaffold260	419372	TT	CC	1946931622
SNP_P4_119877_437796	NW_004515786.1	Scaffold260	437796	AA	CC	1946931624
SNP_P4_119878_10179	NW_004515788.1	Scaffold263	10179	CC	GG	1946931626
SNP_P4_119879_11449	NW_004515788.1	Scaffold263	11449	AA	GG	1946931628
SNP_P4_119880_11487	NW_004515788.1	Scaffold263	11487	TT	CC	1946931630
SNP_P4_119881_20472	NW_004515788.1	Scaffold263	20472	AA	TT	1946931632
SNP_P4_119883_42451	NW_004515788.1	Scaffold263	42451	AA	GG	1946931634
SNP_P4_119884_64724	NW_004515788.1	Scaffold263	64724	TT	CC	1946931636
SNP_P4_119885_66557	NW_004515788.1	Scaffold263	66557	GG	AA	1946931638
SNP_P4_119886_66560	NW_004515788.1	Scaffold263	66560	CC	TT	1946931641
SNP_P4_119887_81322	NW_004515788.1	Scaffold263	81322	AA	GG	1946931643
SNP_P4_119888_138823	NW_004515788.1	Scaffold263	138823	CC	AA	1946931645
SNP_P4_119889_148227	NW_004515788.1	Scaffold263	148227	GG	AA	1946931647
SNP_P4_119890_157938	NW_004515788.1	Scaffold263	157938	CC	TT	1946931649
SNP_P4_119891_162305	NW_004515788.1	Scaffold263	162305	CC	AA	1946931651
SNP_P4_119892_162887	NW_004515788.1	Scaffold263	162887	GG	AA	1946931653
SNP_P4_119893_162903	NW_004515788.1	Scaffold263	162903	GG	TT	1946931655
SNP_P4_119894_162928	NW_004515788.1	Scaffold263	162928	TT	CC	1946931657
SNP_P4_119895_165496	NW_004515788.1	Scaffold263	165496	TT	CC	1946931659
SNP_P4_119896_165645	NW_004515788.1	Scaffold263	165645	AA	GG	1946931661
SNP_P4_119897_165821	NW_004515788.1	Scaffold263	165821	TT	CC	1946931663
SNP_P4_119898_165880	NW_004515788.1	Scaffold263	165880	TT	GG	1946931665
SNP_P4_119899_165940	NW_004515788.1	Scaffold263	165940	AA	GG	1946931667
SNP_P4_119900_165970	NW_004515788.1	Scaffold263	165970	TT	CC	1946931670

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_119902_166357	NW_004515788.1	Scaffold263	166357	CC	TT	1946931674
SNP_P4_119903_166757	NW_004515788.1	Scaffold263	166757	GG	AA	1946931676
SNP_P4_119904_166760	NW_004515788.1	Scaffold263	166760	AA	GG	1946931678
SNP_P4_119905_166772	NW_004515788.1	Scaffold263	166772	TT	GG	1946931680
SNP_P4_119906_166775	NW_004515788.1	Scaffold263	166775	GG	AA	1946931682
SNP_P4_119907_166835	NW_004515788.1	Scaffold263	166835	TT	CC	1946931685
SNP_P4_119908_167258	NW_004515788.1	Scaffold263	167258	GG	AA	1946931687
SNP_P4_119909_167890	NW_004515788.1	Scaffold263	167890	TT	CC	1946931689
SNP_P4_119910_172488	NW_004515788.1	Scaffold263	172488	GG	AA	1946931691
SNP_P4_119911_172819	NW_004515788.1	Scaffold263	172819	AA	GG	1946931693
SNP_P4_119912_172904	NW_004515788.1	Scaffold263	172904	AA	GG	1946931695
SNP_P4_119913_172929	NW_004515788.1	Scaffold263	172929	TT	CC	1946931697
SNP_P4_119914_172930	NW_004515788.1	Scaffold263	172930	TT	CC	1946931699
SNP_P4_119915_174059	NW_004515788.1	Scaffold263	174059	GG	AA	1946931701
SNP_P4_119916_174169	NW_004515788.1	Scaffold263	174169	CC	TT	1946931703
SNP_P4_119917_174170	NW_004515788.1	Scaffold263	174170	TT	CC	1946931705
SNP_P4_119918_174213	NW_004515788.1	Scaffold263	174213	TT	CC	1946931707
SNP_P4_119919_176205	NW_004515788.1	Scaffold263	176205	AA	GG	1946931709
SNP_P4_119920_176246	NW_004515788.1	Scaffold263	176246	AA	TT	1946931711
SNP_P4_119921_176269	NW_004515788.1	Scaffold263	176269	AA	GG	1946931713
SNP_P4_119922_176274	NW_004515788.1	Scaffold263	176274	GG	AA	1946931715
SNP_P4_119923_176353	NW_004515788.1	Scaffold263	176353	GG	TT	1946931717
SNP_P4_119924_176538	NW_004515788.1	Scaffold263	176538	TT	CC	1946931719
SNP_P4_119925_176623	NW_004515788.1	Scaffold263	176623	CC	TT	1946931721
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SNP_P4_119927_176635	NW_004515788.1	Scaffold263	176635	CC	TT	1946931726
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SNP_P4_119929_177642	NW_004515788.1	Scaffold263	177642	GG	TT	1946931730
SNP_P4_119932_177842	NW_004515788.1	Scaffold263	177842	AA	CC	1946931732
SNP_P4_119933_177975	NW_004515788.1	Scaffold263	177975	TT	AA	1946931734
SNP_P4_119934_178162	NW_004515788.1	Scaffold263	178162	AA	GG	1946931736
SNP_P4_119935_178201	NW_004515788.1	Scaffold263	178201	AA	GG	1946931738
SNP_P4_119936_178248	NW_004515788.1	Scaffold263	178248	CC	TT	1946931740
SNP_P4_119937_178782	NW_004515788.1	Scaffold263	178782	GG	TT	1946931742
SNP_P4_119938_4693	NW_004515790.1	Scaffold268	4693	CC	TT	1946931744
SNP_P4_119939_4698	NW_004515790.1	Scaffold268	4698	CC	GG	1946931746
SNP_P4_119940_4700	NW_004515790.1	Scaffold268	4700	AA	TT	1946931748
SNP_P4_119941_7274	NW_004515790.1	Scaffold268	7274	AA	GG	1946931750
SNP_P4_119942_13013	NW_004515790.1	Scaffold268	13013	CC	AA	1946931752
SNP_P4_119943_13180	NW_004515790.1	Scaffold268	13180	CC	AA	1946931754
SNP_P4_119944_13200	NW_004515790.1	Scaffold268	13200	TT	CC	1946931756

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_119946_13216	NW_004515790.1	Scaffold268	13216	TT	CC	1946931761
SNP_P4_119947_13223	NW_004515790.1	Scaffold268	13223	GG	TT	1946931763
SNP_P4_119948_13229	NW_004515790.1	Scaffold268	13229	AA	GG	1946931765
SNP_P4_119949_13237	NW_004515790.1	Scaffold268	13237	CC	AA	1946931767
SNP_P4_119950_13359	NW_004515790.1	Scaffold268	13359	TT	CC	1946931769
SNP_P4_119951_13452	NW_004515790.1	Scaffold268	13452	AA	TT	1946931771
SNP_P4_119952_13453	NW_004515790.1	Scaffold268	13453	CC	AA	1946931774
SNP_P4_119953_13454	NW_004515790.1	Scaffold268	13454	TT	AA	1946931776
SNP_P4_119954_15861	NW_004515790.1	Scaffold268	15861	CC	TT	1946931778
SNP_P4_119955_15866	NW_004515790.1	Scaffold268	15866	TT	GG	1946931780
SNP_P4_119956_15940	NW_004515790.1	Scaffold268	15940	TT	CC	1946931782
SNP_P4_119957_17928	NW_004515790.1	Scaffold268	17928	AA	TT	1946931784
SNP_P4_119958_30715	NW_004515790.1	Scaffold268	30715	GG	TT	1946931786
SNP_P4_119959_33924	NW_004515790.1	Scaffold268	33924	GG	AA	1946931788
SNP_P4_119960_34236	NW_004515790.1	Scaffold268	34236	AA	TT	1946931790
SNP_P4_119961_34237	NW_004515790.1	Scaffold268	34237	TT	CC	1946931792
SNP_P4_119962_34251	NW_004515790.1	Scaffold268	34251	TT	CC	1946931794
SNP_P4_119963_43077	NW_004515790.1	Scaffold268	43077	TT	CC	1946931796
SNP_P4_119964_43657	NW_004515790.1	Scaffold268	43657	GG	AA	1946931798
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SNP_P4_119968_56160	NW_004515790.1	Scaffold268	56160	AA	TT	1946931806
SNP_P4_119969_58532	NW_004515790.1	Scaffold268	58532	TT	CC	1946931808
SNP_P4_119970_1642	NW_004515791.1	Scaffold269	1642	GG	AA	1946931810
SNP_P4_119971_2973	NW_004515791.1	Scaffold269	2973	TT	AA	1946931812
SNP_P4_119972_3158	NW_004515791.1	Scaffold269	3158	GG	CC	1946931814
SNP_P4_119973_3176	NW_004515791.1	Scaffold269	3176	GG	AA	1946931816
SNP_P4_119974_3193	NW_004515791.1	Scaffold269	3193	AA	GG	1946931818
SNP_P4_119975_3262	NW_004515791.1	Scaffold269	3262	GG	TT	1946931820
SNP_P4_119976_3333	NW_004515791.1	Scaffold269	3333	CC	TT	1946931822
SNP_P4_119977_3378	NW_004515791.1	Scaffold269	3378	TT	CC	1946931824
SNP_P4_119978_3398	NW_004515791.1	Scaffold269	3398	GG	AA	1946931826
SNP_P4_119979_3550	NW_004515791.1	Scaffold269	3550	GG	TT	1946931828
SNP_P4_119980_3558	NW_004515791.1	Scaffold269	3558	GG	AA	1946931830
SNP_P4_119981_3592	NW_004515791.1	Scaffold269	3592	AA	GG	1946931832
SNP_P4_119982_3612	NW_004515791.1	Scaffold269	3612	AA	CC	1946931834
SNP_P4_119983_3824	NW_004515791.1	Scaffold269	3824	AA	TT	1946931836
SNP_P4_119985_15591	NW_004515792.1	Scaffold271	15591	TT	AA	1946931838
SNP_P4_119986_19459	NW_004515792.1	Scaffold271	19459	GG	AA	1946931840
SNP_P4_119987_19480	NW_004515792.1	Scaffold271	19480	GG	AA	1946931842

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_119990_19557	NW_004515792.1	Scaffold271	19557	TT	CC	1946931848
SNP_P4_119991_19564	NW_004515792.1	Scaffold271	19564	CC	TT	1946931850
SNP_P4_119992_19600	NW_004515792.1	Scaffold271	19600	CC	TT	1946931852
SNP_P4_119993_19623	NW_004515792.1	Scaffold271	19623	AA	CC	1946931854
SNP_P4_119994_19690	NW_004515792.1	Scaffold271	19690	TT	CC	1946931856
SNP_P4_119995_19720	NW_004515792.1	Scaffold271	19720	CC	TT	1946931858
SNP_P4_119996_19732	NW_004515792.1	Scaffold271	19732	TT	CC	1946931860
SNP_P4_119997_19756	NW_004515792.1	Scaffold271	19756	CC	TT	1946931862
SNP_P4_119998_19820	NW_004515792.1	Scaffold271	19820	AA	GG	1946931864
SNP_P4_119999_19835	NW_004515792.1	Scaffold271	19835	AA	CC	1946931866
SNP_P4_120000_19842	NW_004515792.1	Scaffold271	19842	TT	CC	1946931868
SNP_P4_120001_19862	NW_004515792.1	Scaffold271	19862	TT	GG	1946931870
SNP_P4_120002_19869	NW_004515792.1	Scaffold271	19869	TT	CC	1946931872
SNP_P4_120003_19874	NW_004515792.1	Scaffold271	19874	AA	GG	1946931874
SNP_P4_120004_19897	NW_004515792.1	Scaffold271	19897	AA	CC	1946931876
SNP_P4_120005_19958	NW_004515792.1	Scaffold271	19958	TT	AA	1946931878
SNP_P4_120006_19982	NW_004515792.1	Scaffold271	19982	TT	CC	1946931880
SNP_P4_120007_20006	NW_004515792.1	Scaffold271	20006	AA	GG	1946931882
SNP_P4_120008_20015	NW_004515792.1	Scaffold271	20015	TT	CC	1946931884
SNP_P4_120009_20018	NW_004515792.1	Scaffold271	20018	TT	AA	1946931886
SNP_P4_120010_20035	NW_004515792.1	Scaffold271	20035	GG	AA	1946931888
SNP_P4_120011_20075	NW_004515792.1	Scaffold271	20075	CC	TT	1946931890
SNP_P4_120012_22249	NW_004515792.1	Scaffold271	22249	AA	GG	1946931892
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SNP_P4_120014_27177	NW_004515792.1	Scaffold271	27177	CC	TT	1946931897
SNP_P4_120015_34414	NW_004515792.1	Scaffold271	34414	TT	AA	1946931899
SNP_P4_120016_34421	NW_004515792.1	Scaffold271	34421	GG	AA	1946931901
SNP_P4_120017_34446	NW_004515792.1	Scaffold271	34446	GG	CC	1946931903
SNP_P4_120018_44094	NW_004515792.1	Scaffold271	44094	GG	TT	1946931905
SNP_P4_120019_44119	NW_004515792.1	Scaffold271	44119	TT	CC	1946931907
SNP_P4_120021_61483	NW_004515792.1	Scaffold271	61483	AA	GG	1946931909
SNP_P4_120022_96049	NW_004515792.1	Scaffold271	96049	GG	TT	1946931911
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SNP_P4_120024_146651	NW_004515792.1	Scaffold271	146651	AA	TT	1946931915
SNP_P4_120026_186393	NW_004515792.1	Scaffold271	186393	GG	AA	1946931917
SNP_P4_120028_204954	NW_004515792.1	Scaffold271	204954	GG	AA	1946931919
SNP_P4_120029_204988	NW_004515792.1	Scaffold271	204988	GG	AA	1946931921
SNP_P4_120030_205119	NW_004515792.1	Scaffold271	205119	AA	GG	1946931923
SNP_P4_120031_205186	NW_004515792.1	Scaffold271	205186	GG	CC	1946931925
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_120034_205688	NW_004515792.1	Scaffold271	205688	AA	GG	1946931931
SNP_P4_120036_205984	NW_004515792.1	Scaffold271	205984	CC	TT	1946931933
SNP_P4_120037_256866	NW_004515792.1	Scaffold271	256866	CC	TT	1946931935
SNP_P4_120038_262585	NW_004515792.1	Scaffold271	262585	GG	TT	1946931937
SNP_P4_120040_276755	NW_004515792.1	Scaffold271	276755	CC	GG	1946931939
SNP_P4_120041_276872	NW_004515792.1	Scaffold271	276872	GG	AA	1946931941
SNP_P4_120042_277292	NW_004515792.1	Scaffold271	277292	GG	AA	1946931943
SNP_P4_120043_3350	NW_004515793.1	Scaffold273	3350	GG	AA	1946931945
SNP_P4_120044_27729	NW_004515793.1	Scaffold273	27729	GG	AA	1946931948
SNP_P4_120045_48835	NW_004515793.1	Scaffold273	48835	AA	GG	1946931950
SNP_P4_120047_49095	NW_004515793.1	Scaffold273	49095	AA	TT	1946931952
SNP_P4_120048_50139	NW_004515793.1	Scaffold273	50139	GG	TT	1946931954
SNP_P4_120049_50195	NW_004515793.1	Scaffold273	50195	TT	AA	1946931956
SNP_P4_120050_50199	NW_004515793.1	Scaffold273	50199	TT	CC	1946931958
SNP_P4_120051_50222	NW_004515793.1	Scaffold273	50222	AA	TT	1946931960
SNP_P4_120052_50225	NW_004515793.1	Scaffold273	50225	TT	AA	1946931962
SNP_P4_120053_50401	NW_004515793.1	Scaffold273	50401	AA	GG	1946931964
SNP_P4_120054_50430	NW_004515793.1	Scaffold273	50430	GG	AA	1946931966
SNP_P4_120055_50452	NW_004515793.1	Scaffold273	50452	AA	GG	1946931968
SNP_P4_120056_52116	NW_004515793.1	Scaffold273	52116	CC	TT	1946931971
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SNP_P4_120058_65451	NW_004515793.1	Scaffold273	65451	AA	TT	1946931975
SNP_P4_120059_66186	NW_004515793.1	Scaffold273	66186	TT	AA	1946931977
SNP_P4_120060_83263	NW_004515793.1	Scaffold273	83263	TT	CC	1946931979
SNP_P4_120061_83266	NW_004515793.1	Scaffold273	83266	AA	GG	1946931981
SNP_P4_120062_83287	NW_004515793.1	Scaffold273	83287	AA	GG	1946931983
SNP_P4_120063_83293	NW_004515793.1	Scaffold273	83293	TT	CC	1946931985
SNP_P4_120064_83336	NW_004515793.1	Scaffold273	83336	CC	TT	1946931987
SNP_P4_120067_103541	NW_004515793.1	Scaffold273	103541	GG	CC	1946931989
SNP_P4_120068_103803	NW_004515793.1	Scaffold273	103803	CC	TT	1946931992
SNP_P4_120069_103969	NW_004515793.1	Scaffold273	103969	AA	GG	1946931994
SNP_P4_120070_103972	NW_004515793.1	Scaffold273	103972	GG	TT	1946931996
SNP_P4_120071_104157	NW_004515793.1	Scaffold273	104157	TT	CC	1946931998
SNP_P4_120072_104203	NW_004515793.1	Scaffold273	104203	AA	GG	1946932000
SNP_P4_120074_128215	NW_004515793.1	Scaffold273	128215	TT	GG	1946932002
SNP_P4_120075_144467	NW_004515793.1	Scaffold273	144467	CC	TT	1946932004
SNP_P4_120076_144514	NW_004515793.1	Scaffold273	144514	TT	CC	1946932006
SNP_P4_120077_144576	NW_004515793.1	Scaffold273	144576	TT	CC	1946932008
SNP_P4_120078_160215	NW_004515793.1	Scaffold273	160215	AA	CC	1946932010
SNP_P4_120079_180254	NW_004515793.1	Scaffold273	180254	TT	GG	1946932012
SNP_P4_120081_189230	NW_004515793.1	Scaffold273	189230	AA	GG	1946932014

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_120082_190296	NW_004515793.1	Scaffold273	190296	AA	GG	1946932016
SNP_P4_120083_190348	NW_004515793.1	Scaffold273	190348	AA	GG	1946932018
SNP_P4_120084_190438	NW_004515793.1	Scaffold273	190438	TT	CC	1946932020
SNP_P4_120085_190486	NW_004515793.1	Scaffold273	190486	CC	TT	1946932022
SNP_P4_120086_190564	NW_004515793.1	Scaffold273	190564	AA	CC	1946932024
SNP_P4_120088_190683	NW_004515793.1	Scaffold273	190683	GG	TT	1946932026
SNP_P4_120089_190691	NW_004515793.1	Scaffold273	190691	TT	CC	1946932028
SNP_P4_120090_190765	NW_004515793.1	Scaffold273	190765	AA	GG	1946932030
SNP_P4_120091_190882	NW_004515793.1	Scaffold273	190882	TT	CC	1946932032
SNP_P4_120092_190905	NW_004515793.1	Scaffold273	190905	TT	CC	1946932034
SNP_P4_120093_190949	NW_004515793.1	Scaffold273	190949	TT	GG	1946932036
SNP_P4_120094_191739	NW_004515793.1	Scaffold273	191739	TT	CC	1946932038
SNP_P4_120095_191750	NW_004515793.1	Scaffold273	191750	GG	CC	1946932040
SNP_P4_120096_191760	NW_004515793.1	Scaffold273	191760	AA	GG	1946932042
SNP_P4_120098_191857	NW_004515793.1	Scaffold273	191857	AA	GG	1946932044
SNP_P4_120099_191858	NW_004515793.1	Scaffold273	191858	CC	TT	1946932046
SNP_P4_120100_191870	NW_004515793.1	Scaffold273	191870	TT	CC	1946932048
SNP_P4_120101_209680	NW_004515793.1	Scaffold273	209680	AA	CC	1946932050
SNP_P4_120102_209705	NW_004515793.1	Scaffold273	209705	TT	GG	1946932052
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SNP_P4_120104_209802	NW_004515793.1	Scaffold273	209802	TT	CC	1946932056
SNP_P4_120105_209845	NW_004515793.1	Scaffold273	209845	CC	GG	1946932059
SNP_P4_120106_209846	NW_004515793.1	Scaffold273	209846	AA	CC	1946932061
SNP_P4_120107_6470	NW_004515794.1	Scaffold275	6470	AA	CC	1946932063
SNP_P4_120108_6976	NW_004515794.1	Scaffold275	6976	AA	GG	1946932065
SNP_P4_120109_7014	NW_004515794.1	Scaffold275	7014	TT	CC	1946932067
SNP_P4_120110_7037	NW_004515794.1	Scaffold275	7037	GG	CC	1946932069
SNP_P4_120111_7146	NW_004515794.1	Scaffold275	7146	CC	GG	1946932071
SNP_P4_120112_7147	NW_004515794.1	Scaffold275	7147	AA	GG	1946932073
SNP_P4_120113_8282	NW_004515794.1	Scaffold275	8282	AA	TT	1946932075
SNP_P4_120114_8285	NW_004515794.1	Scaffold275	8285	AA	CC	1946932077
SNP_P4_120115_15776	NW_004515794.1	Scaffold275	15776	GG	AA	1946932079
SNP_P4_120116_16140	NW_004515794.1	Scaffold275	16140	GG	CC	1946932081
SNP_P4_120117_16190	NW_004515794.1	Scaffold275	16190	GG	AA	1946932083
SNP_P4_120118_16195	NW_004515794.1	Scaffold275	16195	AA	GG	1946932085
SNP_P4_120119_55301	NW_004515794.1	Scaffold275	55301	GG	CC	1946932087
SNP_P4_120120_55633	NW_004515794.1	Scaffold275	55633	AA	TT	1946932089
SNP_P4_120121_55659	NW_004515794.1	Scaffold275	55659	AA	TT	1946932091
SNP_P4_120122_57196	NW_004515794.1	Scaffold275	57196	CC	TT	1946932093
SNP_P4_120123_57517	NW_004515794.1	Scaffold275	57517	TT	GG	1946932095
SNP_P4_120124_59502	NW_004515794.1	Scaffold275	59502	GG	AA	1946932097
SNP_P4_120125_67385	NW_004515794.1	Scaffold275	67385	CC	TT	1946932099

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_120129_140598	NW_004515794.1	Scaffold275	140598	TT	CC	1946932103
SNP_P4_120130_142439	NW_004515794.1	Scaffold275	142439	GG	TT	1946932105
SNP_P4_120131_143089	NW_004515794.1	Scaffold275	143089	AA	TT	1946932107
SNP_P4_120132_143172	NW_004515794.1	Scaffold275	143172	GG	AA	1946932109
SNP_P4_120133_143768	NW_004515794.1	Scaffold275	143768	AA	TT	1946932111
SNP_P4_120134_143781	NW_004515794.1	Scaffold275	143781	TT	CC	1946932113
SNP_P4_120135_145819	NW_004515794.1	Scaffold275	145819	AA	CC	1946932115
SNP_P4_120136_145942	NW_004515794.1	Scaffold275	145942	AA	GG	1946932117
SNP_P4_120137_146249	NW_004515794.1	Scaffold275	146249	CC	TT	1946932119
SNP_P4_120138_146277	NW_004515794.1	Scaffold275	146277	CC	TT	1946932121
SNP_P4_120139_146849	NW_004515794.1	Scaffold275	146849	CC	TT	1946932123
SNP_P4_120140_146865	NW_004515794.1	Scaffold275	146865	AA	GG	1946932125
SNP_P4_120141_147129	NW_004515794.1	Scaffold275	147129	TT	AA	1946932127
SNP_P4_120143_147189	NW_004515794.1	Scaffold275	147189	CC	TT	1946932129
SNP_P4_120144_147394	NW_004515794.1	Scaffold275	147394	CC	AA	1946932131
SNP_P4_120145_148036	NW_004515794.1	Scaffold275	148036	TT	CC	1946932133
SNP_P4_120146_148181	NW_004515794.1	Scaffold275	148181	GG	TT	1946932135
SNP_P4_120147_148399	NW_004515794.1	Scaffold275	148399	AA	GG	1946932137
SNP_P4_120148_148535	NW_004515794.1	Scaffold275	148535	GG	AA	1946932139
SNP_P4_120149_148536	NW_004515794.1	Scaffold275	148536	AA	GG	1946932142
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SNP_P4_120151_148706	NW_004515794.1	Scaffold275	148706	TT	CC	1946932146
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SNP_P4_120156_161957	NW_004515794.1	Scaffold275	161957	GG	AA	1946932156
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SNP_P4_120158_162090	NW_004515794.1	Scaffold275	162090	AA	TT	1946932160
SNP_P4_120159_162126	NW_004515794.1	Scaffold275	162126	CC	GG	1946932162
SNP_P4_120160_162143	NW_004515794.1	Scaffold275	162143	AA	GG	1946932164
SNP_P4_120161_162171	NW_004515794.1	Scaffold275	162171	AA	GG	1946932166
SNP_P4_120162_162233	NW_004515794.1	Scaffold275	162233	TT	CC	1946932168
SNP_P4_120163_162343	NW_004515794.1	Scaffold275	162343	GG	AA	1946932170
SNP_P4_120166_162392	NW_004515794.1	Scaffold275	162392	TT	AA	1946932172
SNP_P4_120167_162414	NW_004515794.1	Scaffold275	162414	GG	TT	1946932174
SNP_P4_120168_162473	NW_004515794.1	Scaffold275	162473	TT	AA	1946932176
SNP_P4_120169_162551	NW_004515794.1	Scaffold275	162551	AA	CC	1946932179
SNP_P4_120170_162555	NW_004515794.1	Scaffold275	162555	GG	TT	1946932181
SNP_P4_120171_162597	NW_004515794.1	Scaffold275	162597	GG	AA	1946932183
SNP_P4_120172_162607	NW_004515794.1	Scaffold275	162607	TT	AA	1946932185

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_120174_162626	NW_004515794.1	Scaffold275	162626	GG	AA	1946932189
SNP_P4_120175_167269	NW_004515794.1	Scaffold275	167269	CC	AA	1946932191
SNP_P4_120176_167270	NW_004515794.1	Scaffold275	167270	AA	CC	1946932193
SNP_P4_120177_167275	NW_004515794.1	Scaffold275	167275	AA	CC	1946932195
SNP_P4_120178_167511	NW_004515794.1	Scaffold275	167511	TT	CC	1946932198
SNP_P4_120180_167710	NW_004515794.1	Scaffold275	167710	TT	CC	1946932200
SNP_P4_120181_167746	NW_004515794.1	Scaffold275	167746	GG	TT	1946932202
SNP_P4_120182_167806	NW_004515794.1	Scaffold275	167806	TT	GG	1946932204
SNP_P4_120184_208453	NW_004515794.1	Scaffold275	208453	AA	TT	1946932206
SNP_P4_120185_208768	NW_004515794.1	Scaffold275	208768	AA	GG	1946932208
SNP_P4_120186_208786	NW_004515794.1	Scaffold275	208786	GG	CC	1946932210
SNP_P4_120187_208788	NW_004515794.1	Scaffold275	208788	CC	TT	1946932212
SNP_P4_120188_208793	NW_004515794.1	Scaffold275	208793	CC	GG	1946932214
SNP_P4_120189_220608	NW_004515794.1	Scaffold275	220608	GG	AA	1946932216
SNP_P4_120190_220610	NW_004515794.1	Scaffold275	220610	TT	GG	1946932218
SNP_P4_120191_226026	NW_004515794.1	Scaffold275	226026	TT	CC	1946932220
SNP_P4_120192_226027	NW_004515794.1	Scaffold275	226027	AA	CC	1946932222
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SNP_P4_120195_226155	NW_004515794.1	Scaffold275	226155	CC	TT	1946932229
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SNP_P4_120200_255409	NW_004515794.1	Scaffold275	255409	AA	TT	1946932239
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SNP_P4_120202_255438	NW_004515794.1	Scaffold275	255438	AA	GG	1946932243
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SNP_P4_120206_304806	NW_004515794.1	Scaffold275	304806	GG	AA	1946932247
SNP_P4_120207_304824	NW_004515794.1	Scaffold275	304824	AA	TT	1946932249
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SNP_P4_120210_321593	NW_004515794.1	Scaffold275	321593	TT	CC	1946932255
SNP_P4_120211_347422	NW_004515794.1	Scaffold275	347422	CC	AA	1946932257
SNP_P4_120213_360415	NW_004515794.1	Scaffold275	360415	AA	TT	1946932259
SNP_P4_120214_360417	NW_004515794.1	Scaffold275	360417	AA	GG	1946932261
SNP_P4_120221_383144	NW_004515794.1	Scaffold275	383144	TT	CC	1946932263
SNP_P4_120222_383170	NW_004515794.1	Scaffold275	383170	TT	AA	1946932266
SNP_P4_120223_386867	NW_004515794.1	Scaffold275	386867	CC	AA	1946932268
SNP_P4_120224_386956	NW_004515794.1	Scaffold275	386956	TT	CC	1946932270
SNP_P4_120225_399434	NW_004515794.1	Scaffold275	399434	AA	GG	1946932272

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_120227_403927	NW_004515794.1	Scaffold275	403927	CC	TT	1946932276
SNP_P4_120228_404075	NW_004515794.1	Scaffold275	404075	TT	AA	1946932278
SNP_P4_120229_404129	NW_004515794.1	Scaffold275	404129	AA	CC	1946932280
SNP_P4_120230_405066	NW_004515794.1	Scaffold275	405066	TT	AA	1946932282
SNP_P4_120231_405116	NW_004515794.1	Scaffold275	405116	TT	CC	1946932284
SNP_P4_120232_405218	NW_004515794.1	Scaffold275	405218	AA	CC	1946932287
SNP_P4_120233_405254	NW_004515794.1	Scaffold275	405254	AA	CC	1946932289
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SNP_P4_120236_405290	NW_004515794.1	Scaffold275	405290	CC	TT	1946932295
SNP_P4_120237_405291	NW_004515794.1	Scaffold275	405291	GG	TT	1946932297
SNP_P4_120238_405294	NW_004515794.1	Scaffold275	405294	TT	GG	1946932299
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SNP_P4_120244_405427	NW_004515794.1	Scaffold275	405427	CC	GG	1946932311
SNP_P4_120245_406177	NW_004515794.1	Scaffold275	406177	GG	AA	1946932313
SNP_P4_120246_406314	NW_004515794.1	Scaffold275	406314	CC	GG	1946932315
SNP_P4_120247_406347	NW_004515794.1	Scaffold275	406347	TT	GG	1946932317
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SNP_P4_120249_412758	NW_004515794.1	Scaffold275	412758	CC	TT	1946932322
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SNP_P4_120251_448419	NW_004515794.1	Scaffold275	448419	GG	AA	1946932326
SNP_P4_120253_458243	NW_004515794.1	Scaffold275	458243	CC	TT	1946932328
SNP_P4_120254_461773	NW_004515794.1	Scaffold275	461773	CC	AA	1946932330
SNP_P4_120255_487349	NW_004515794.1	Scaffold275	487349	GG	AA	1946932332
SNP_P4_120256_487354	NW_004515794.1	Scaffold275	487354	CC	AA	1946932334
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SNP_P4_120269_492232	NW_004515794.1	Scaffold275	492232	GG	AA	1946932357
SNP_P4_120270_492234	NW_004515794.1	Scaffold275	492234	CC	AA	1946932359

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_120273_495483	NW_004515794.1	Scaffold275	495483	TT	GG	1946932365
SNP_P4_120274_517896	NW_004515794.1	Scaffold275	517896	AA	CC	1946932367
SNP_P4_120275_517910	NW_004515794.1	Scaffold275	517910	TT	CC	1946932369
SNP_P4_120276_523577	NW_004515794.1	Scaffold275	523577	CC	TT	1946932371
SNP_P4_120277_523605	NW_004515794.1	Scaffold275	523605	CC	TT	1946932373
SNP_P4_120278_524821	NW_004515794.1	Scaffold275	524821	TT	AA	1946932375
SNP_P4_120279_546132	NW_004515794.1	Scaffold275	546132	CC	TT	1946932377
SNP_P4_120280_546709	NW_004515794.1	Scaffold275	546709	TT	GG	1946932379
SNP_P4_120281_546901	NW_004515794.1	Scaffold275	546901	TT	CC	1946932381
SNP_P4_120282_546942	NW_004515794.1	Scaffold275	546942	TT	CC	1946932383
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SNP_P4_120284_563020	NW_004515794.1	Scaffold275	563020	TT	CC	1946932387
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SNP_P4_120288_585903	NW_004515794.1	Scaffold275	585903	GG	AA	1946932393
SNP_P4_120289_586225	NW_004515794.1	Scaffold275	586225	CC	AA	1946932395
SNP_P4_120291_594182	NW_004515794.1	Scaffold275	594182	AA	CC	1946932397
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SNP_P4_120295_607341	NW_004515794.1	Scaffold275	607341	GG	TT	1946932405
SNP_P4_120296_607419	NW_004515794.1	Scaffold275	607419	TT	GG	1946932407
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SNP_P4_120305_636739	NW_004515794.1	Scaffold275	636739	AA	GG	1946932424
SNP_P4_120306_647956	NW_004515794.1	Scaffold275	647956	TT	AA	1946932426
SNP_P4_120307_648088	NW_004515794.1	Scaffold275	648088	GG	TT	1946932428
SNP_P4_120308_648094	NW_004515794.1	Scaffold275	648094	CC	AA	1946932430
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SNP_P4_120310_648125	NW_004515794.1	Scaffold275	648125	TT	GG	1946932434
SNP_P4_120311_649140	NW_004515794.1	Scaffold275	649140	TT	CC	1946932436
SNP_P4_120312_649260	NW_004515794.1	Scaffold275	649260	TT	CC	1946932438
SNP_P4_120313_649293	NW_004515794.1	Scaffold275	649293	AA	TT	1946932440
SNP_P4_120314_649325	NW_004515794.1	Scaffold275	649325	GG	TT	1946932442
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_120319_688050	NW_004515794.1	Scaffold275	688050	CC	TT	1946932450
SNP_P4_120320_690238	NW_004515794.1	Scaffold275	690238	GG	TT	1946932453
SNP_P4_120321_690287	NW_004515794.1	Scaffold275	690287	GG	AA	1946932455
SNP_P4_120322_717803	NW_004515794.1	Scaffold275	717803	CC	AA	1946932457
SNP_P4_120323_749219	NW_004515794.1	Scaffold275	749219	GG	AA	1946932459
SNP_P4_120324_749222	NW_004515794.1	Scaffold275	749222	TT	GG	1946932461
SNP_P4_120325_751130	NW_004515794.1	Scaffold275	751130	GG	TT	1946932463
SNP_P4_120326_751134	NW_004515794.1	Scaffold275	751134	TT	CC	1946932465
SNP_P4_120327_751140	NW_004515794.1	Scaffold275	751140	TT	CC	1946932467
SNP_P4_120328_751144	NW_004515794.1	Scaffold275	751144	AA	GG	1946932469
SNP_P4_120329_759336	NW_004515794.1	Scaffold275	759336	TT	GG	1946932472
SNP_P4_120331_776643	NW_004515794.1	Scaffold275	776643	CC	TT	1946932474
SNP_P4_120332_776736	NW_004515794.1	Scaffold275	776736	CC	AA	1946932476
SNP_P4_120333_778673	NW_004515794.1	Scaffold275	778673	AA	TT	1946932478
SNP_P4_120334_780313	NW_004515794.1	Scaffold275	780313	GG	CC	1946932480
SNP_P4_120335_780321	NW_004515794.1	Scaffold275	780321	GG	AA	1946932482
SNP_P4_120336_780327	NW_004515794.1	Scaffold275	780327	AA	GG	1946932484
SNP_P4_120337_780350	NW_004515794.1	Scaffold275	780350	CC	AA	1946932486
SNP_P4_120338_781403	NW_004515794.1	Scaffold275	781403	AA	TT	1946932488
SNP_P4_120339_782140	NW_004515794.1	Scaffold275	782140	CC	TT	1946932490
SNP_P4_120340_783219	NW_004515794.1	Scaffold275	783219	GG	AA	1946932492
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SNP_P4_120343_797916	NW_004515794.1	Scaffold275	797916	AA	TT	1946932499
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SNP_P4_120345_798221	NW_004515794.1	Scaffold275	798221	AA	GG	1946932503
SNP_P4_120346_809209	NW_004515794.1	Scaffold275	809209	AA	GG	1946932505
SNP_P4_120347_812186	NW_004515794.1	Scaffold275	812186	GG	AA	1946932507
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SNP_P4_120350_812361	NW_004515794.1	Scaffold275	812361	TT	AA	1946932511
SNP_P4_120351_812608	NW_004515794.1	Scaffold275	812608	CC	TT	1946932513
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SNP_P4_120358_813747	NW_004515794.1	Scaffold275	813747	AA	CC	1946932526
SNP_P4_120359_813761	NW_004515794.1	Scaffold275	813761	CC	AA	1946932528
SNP_P4_120360_813787	NW_004515794.1	Scaffold275	813787	GG	CC	1946932530
SNP_P4_120361_1174	NW_004515795.1	Scaffold276	1174	TT	GG	1946932532

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_120364_1256	NW_004515795.1	Scaffold276	1256	GG	AA	1946932538
SNP_P4_120365_1301	NW_004515795.1	Scaffold276	1301	TT	CC	1946932540
SNP_P4_120366_3072	NW_004515795.1	Scaffold276	3072	TT	CC	1946932542
SNP_P4_120367_3073	NW_004515795.1	Scaffold276	3073	AA	GG	1946932544
SNP_P4_120368_13136	NW_004515795.1	Scaffold276	13136	TT	CC	1946932546
SNP_P4_120369_13137	NW_004515795.1	Scaffold276	13137	TT	CC	1946932548
SNP_P4_120370_13840	NW_004515795.1	Scaffold276	13840	AA	TT	1946932551
SNP_P4_120371_15178	NW_004515795.1	Scaffold276	15178	TT	AA	1946932553
SNP_P4_120372_21465	NW_004515795.1	Scaffold276	21465	TT	CC	1946932555
SNP_P4_120373_21478	NW_004515795.1	Scaffold276	21478	GG	TT	1946932557
SNP_P4_120374_21571	NW_004515795.1	Scaffold276	21571	TT	CC	1946932560
SNP_P4_120375_21827	NW_004515795.1	Scaffold276	21827	AA	GG	1946932562
SNP_P4_120376_21838	NW_004515795.1	Scaffold276	21838	AA	GG	1946932564
SNP_P4_120377_21847	NW_004515795.1	Scaffold276	21847	AA	GG	1946932566
SNP_P4_120378_21875	NW_004515795.1	Scaffold276	21875	GG	AA	1946932568
SNP_P4_120379_45301	NW_004515795.1	Scaffold276	45301	TT	CC	1946932570
SNP_P4_120380_50441	NW_004515795.1	Scaffold276	50441	AA	GG	1946932572
SNP_P4_120381_50514	NW_004515795.1	Scaffold276	50514	AA	CC	1946932574
SNP_P4_120382_53120	NW_004515795.1	Scaffold276	53120	TT	GG	1946932577
SNP_P4_120383_53125	NW_004515795.1	Scaffold276	53125	AA	CC	1946932579
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SNP_P4_120386_69135	NW_004515795.1	Scaffold276	69135	AA	GG	1946932585
SNP_P4_120387_69150	NW_004515795.1	Scaffold276	69150	AA	GG	1946932587
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SNP_P4_120389_483	NW_004515796.1	Scaffold277	483	GG	TT	1946932591
SNP_P4_120390_642	NW_004515796.1	Scaffold277	642	GG	AA	1946932593
SNP_P4_120391_675	NW_004515796.1	Scaffold277	675	GG	TT	1946932595
SNP_P4_120392_729	NW_004515796.1	Scaffold277	729	CC	TT	1946932597
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SNP_P4_120395_879	NW_004515796.1	Scaffold277	879	AA	GG	1946932603
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SNP_P4_120398_1514	NW_004515796.1	Scaffold277	1514	TT	CC	1946932610
SNP_P4_120399_1596	NW_004515796.1	Scaffold277	1596	AA	CC	1946932612
SNP_P4_120400_3116	NW_004515796.1	Scaffold277	3116	AA	CC	1946932614
SNP_P4_120401_3750	NW_004515796.1	Scaffold277	3750	AA	GG	1946932616
SNP_P4_120402_4322	NW_004515796.1	Scaffold277	4322	AA	GG	1946932619
SNP_P4_120404_4504	NW_004515796.1	Scaffold277	4504	GG	AA	1946932621

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_120408_4929	NW_004515796.1	Scaffold277	4929	CC	GG	1946932627
SNP_P4_120409_5231	NW_004515796.1	Scaffold277	5231	CC	GG	1946932630
SNP_P4_120410_5290	NW_004515796.1	Scaffold277	5290	AA	GG	1946932632
SNP_P4_120411_5326	NW_004515796.1	Scaffold277	5326	GG	AA	1946932634
SNP_P4_120412_5363	NW_004515796.1	Scaffold277	5363	AA	TT	1946932636
SNP_P4_120413_5367	NW_004515796.1	Scaffold277	5367	AA	TT	1946932639
SNP_P4_120414_5419	NW_004515796.1	Scaffold277	5419	TT	CC	1946932641
SNP_P4_120415_5488	NW_004515796.1	Scaffold277	5488	CC	AA	1946932643
SNP_P4_120416_5502	NW_004515796.1	Scaffold277	5502	GG	AA	1946932645
SNP_P4_120417_5579	NW_004515796.1	Scaffold277	5579	TT	CC	1946932647
SNP_P4_120418_22527	NW_004515796.1	Scaffold277	22527	TT	CC	1946932650
SNP_P4_120419_60497	NW_004515796.1	Scaffold277	60497	TT	CC	1946932652
SNP_P4_120420_60571	NW_004515796.1	Scaffold277	60571	GG	TT	1946932654
SNP_P4_120421_60596	NW_004515796.1	Scaffold277	60596	AA	GG	1946932656
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SNP_P4_120439_79999	NW_004515796.1	Scaffold277	79999	AA	GG	1946932692
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SNP_P4_120442_137556	NW_004515796.1	Scaffold277	137556	CC	TT	1946932698
SNP_P4_120443_152987	NW_004515796.1	Scaffold277	152987	CC	AA	1946932700
SNP_P4_120444_165452	NW_004515796.1	Scaffold277	165452	GG	CC	1946932702
SNP_P4_120445_165709	NW_004515796.1	Scaffold277	165709	CC	AA	1946932704
SNP_P4_120446_165750	NW_004515796.1	Scaffold277	165750	GG	TT	1946932706
SNP_P4_120447_165825	NW_004515796.1	Scaffold277	165825	GG	TT	1946932708

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_120449_166003	NW_004515796.1	Scaffold277	166003	AA	TT	1946932712
SNP_P4_120450_166126	NW_004515796.1	Scaffold277	166126	CC	AA	1946932714
SNP_P4_120451_168587	NW_004515796.1	Scaffold277	168587	TT	AA	1946932716
SNP_P4_120452_184982	NW_004515796.1	Scaffold277	184982	CC	TT	1946932718
SNP_P4_120454_185172	NW_004515796.1	Scaffold277	185172	AA	GG	1946932720
SNP_P4_120455_185183	NW_004515796.1	Scaffold277	185183	TT	GG	1946932722
SNP_P4_120456_188835	NW_004515796.1	Scaffold277	188835	CC	AA	1946932724
SNP_P4_120457_189067	NW_004515796.1	Scaffold277	189067	GG	AA	1946932726
SNP_P4_120458_189101	NW_004515796.1	Scaffold277	189101	AA	GG	1946932728
SNP_P4_120459_189127	NW_004515796.1	Scaffold277	189127	TT	AA	1946932730
SNP_P4_120460_189170	NW_004515796.1	Scaffold277	189170	GG	AA	1946932732
SNP_P4_120461_201866	NW_004515796.1	Scaffold277	201866	CC	TT	1946932734
SNP_P4_120462_201940	NW_004515796.1	Scaffold277	201940	AA	GG	1946932736
SNP_P4_120463_202090	NW_004515796.1	Scaffold277	202090	GG	AA	1946932738
SNP_P4_120464_202226	NW_004515796.1	Scaffold277	202226	GG	AA	1946932740
SNP_P4_120465_202464	NW_004515796.1	Scaffold277	202464	CC	TT	1946932742
SNP_P4_120466_202501	NW_004515796.1	Scaffold277	202501	TT	GG	1946932744
SNP_P4_120467_202502	NW_004515796.1	Scaffold277	202502	GG	AA	1946932746
SNP_P4_120468_202504	NW_004515796.1	Scaffold277	202504	CC	TT	1946932748
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SNP_P4_120470_202578	NW_004515796.1	Scaffold277	202578	CC	TT	1946932752
SNP_P4_120471_202716	NW_004515796.1	Scaffold277	202716	CC	TT	1946932754
SNP_P4_120472_202794	NW_004515796.1	Scaffold277	202794	GG	AA	1946932756
SNP_P4_120473_202796	NW_004515796.1	Scaffold277	202796	AA	GG	1946932758
SNP_P4_120474_202812	NW_004515796.1	Scaffold277	202812	AA	GG	1946932760
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SNP_P4_120476_202862	NW_004515796.1	Scaffold277	202862	AA	GG	1946932765
SNP_P4_120477_202880	NW_004515796.1	Scaffold277	202880	TT	GG	1946932767
SNP_P4_120478_202903	NW_004515796.1	Scaffold277	202903	GG	AA	1946932769
SNP_P4_120479_203032	NW_004515796.1	Scaffold277	203032	AA	GG	1946932771
SNP_P4_120480_203096	NW_004515796.1	Scaffold277	203096	AA	TT	1946932773
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SNP_P4_120483_205116	NW_004515796.1	Scaffold277	205116	TT	CC	1946932777
SNP_P4_120484_205166	NW_004515796.1	Scaffold277	205166	GG	TT	1946932779
SNP_P4_120485_205179	NW_004515796.1	Scaffold277	205179	AA	GG	1946932781
SNP_P4_120486_205230	NW_004515796.1	Scaffold277	205230	GG	AA	1946932783
SNP_P4_120487_205331	NW_004515796.1	Scaffold277	205331	TT	CC	1946932785
SNP_P4_120488_205337	NW_004515796.1	Scaffold277	205337	TT	CC	1946932787
SNP_P4_120489_205353	NW_004515796.1	Scaffold277	205353	CC	TT	1946932789
SNP_P4_120490_205416	NW_004515796.1	Scaffold277	205416	TT	CC	1946932791
SNP_P4_120492_205692	NW_004515796.1	Scaffold277	205692	GG	AA	1946932793

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_120494_211021	NW_004515796.1	Scaffold277	211021	GG	TT	1946932797
SNP_P4_120495_211032	NW_004515796.1	Scaffold277	211032	GG	AA	1946932799
SNP_P4_120497_218538	NW_004515796.1	Scaffold277	218538	AA	CC	1946932801
SNP_P4_120498_218582	NW_004515796.1	Scaffold277	218582	AA	GG	1946932803
SNP_P4_120499_218598	NW_004515796.1	Scaffold277	218598	AA	TT	1946932805
SNP_P4_120500_218714	NW_004515796.1	Scaffold277	218714	GG	AA	1946932807
SNP_P4_120501_218762	NW_004515796.1	Scaffold277	218762	AA	CC	1946932809
SNP_P4_120502_218825	NW_004515796.1	Scaffold277	218825	CC	TT	1946932811
SNP_P4_120503_218873	NW_004515796.1	Scaffold277	218873	TT	AA	1946932813
SNP_P4_120505_219186	NW_004515796.1	Scaffold277	219186	AA	CC	1946932815
SNP_P4_120506_219521	NW_004515796.1	Scaffold277	219521	GG	AA	1946932817
SNP_P4_120507_219684	NW_004515796.1	Scaffold277	219684	AA	GG	1946932819
SNP_P4_120508_219782	NW_004515796.1	Scaffold277	219782	CC	AA	1946932821
SNP_P4_120509_219783	NW_004515796.1	Scaffold277	219783	AA	TT	1946932823
SNP_P4_120510_229512	NW_004515796.1	Scaffold277	229512	CC	TT	1946932825
SNP_P4_120511_236240	NW_004515796.1	Scaffold277	236240	GG	AA	1946932827
SNP_P4_120512_247178	NW_004515796.1	Scaffold277	247178	AA	CC	1946932829
SNP_P4_120513_247438	NW_004515796.1	Scaffold277	247438	AA	TT	1946932831
SNP_P4_120514_247446	NW_004515796.1	Scaffold277	247446	CC	TT	1946932833
SNP_P4_120515_247474	NW_004515796.1	Scaffold277	247474	CC	AA	1946932835
SNP_P4_120516_247483	NW_004515796.1	Scaffold277	247483	GG	TT	1946932837
SNP_P4_120517_252022	NW_004515796.1	Scaffold277	252022	TT	CC	1946932839
SNP_P4_120518_252147	NW_004515796.1	Scaffold277	252147	TT	AA	1946932841
SNP_P4_120519_252220	NW_004515796.1	Scaffold277	252220	CC	AA	1946932843
SNP_P4_120520_252352	NW_004515796.1	Scaffold277	252352	AA	GG	1946932845
SNP_P4_120522_252496	NW_004515796.1	Scaffold277	252496	AA	GG	1946932847
SNP_P4_120523_263946	NW_004515796.1	Scaffold277	263946	CC	AA	1946932849
SNP_P4_120524_523	NW_004515797.1	Scaffold280	523	GG	TT	1946932851
SNP_P4_120525_4894	NW_004515797.1	Scaffold280	4894	GG	CC	1946932853
SNP_P4_120526_4903	NW_004515797.1	Scaffold280	4903	AA	TT	1946932855
SNP_P4_120527_4930	NW_004515797.1	Scaffold280	4930	GG	AA	1946932857
SNP_P4_120528_5203	NW_004515797.1	Scaffold280	5203	CC	AA	1946932859
SNP_P4_120529_6449	NW_004515797.1	Scaffold280	6449	CC	TT	1946932861
SNP_P4_120530_6690	NW_004515797.1	Scaffold280	6690	GG	AA	1946932863
SNP_P4_120531_10553	NW_004515797.1	Scaffold280	10553	TT	CC	1946932865
SNP_P4_120532_10581	NW_004515797.1	Scaffold280	10581	AA	CC	1946932867
SNP_P4_120533_10664	NW_004515797.1	Scaffold280	10664	TT	CC	1946932869
SNP_P4_120536_15044	NW_004515797.1	Scaffold280	15044	AA	CC	1946932871
SNP_P4_120537_15581	NW_004515797.1	Scaffold280	15581	CC	AA	1946932873
SNP_P4_120538_15602	NW_004515797.1	Scaffold280	15602	CC	AA	1946932875
SNP_P4_120539_17697	NW_004515797.1	Scaffold280	17697	TT	GG	1946932877

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_120541_17731	NW_004515797.1	Scaffold280	17731	GG	AA	1946932881
SNP_P4_120542_17755	NW_004515797.1	Scaffold280	17755	AA	GG	1946932883
SNP_P4_120543_17976	NW_004515797.1	Scaffold280	17976	CC	AA	1946932885
SNP_P4_120544_17984	NW_004515797.1	Scaffold280	17984	AA	GG	1946932887
SNP_P4_120545_18017	NW_004515797.1	Scaffold280	18017	TT	CC	1946932889
SNP_P4_120546_23337	NW_004515797.1	Scaffold280	23337	GG	AA	1946932891
SNP_P4_120547_35056	NW_004515797.1	Scaffold280	35056	AA	GG	1946932893
SNP_P4_120548_35138	NW_004515797.1	Scaffold280	35138	GG	AA	1946932895
SNP_P4_120549_35318	NW_004515797.1	Scaffold280	35318	AA	TT	1946932897
SNP_P4_120550_35391	NW_004515797.1	Scaffold280	35391	AA	GG	1946932899
SNP_P4_120551_35422	NW_004515797.1	Scaffold280	35422	GG	TT	1946932901
SNP_P4_120552_37353	NW_004515797.1	Scaffold280	37353	CC	TT	1946932903
SNP_P4_120553_38533	NW_004515797.1	Scaffold280	38533	TT	AA	1946932906
SNP_P4_120554_44654	NW_004515797.1	Scaffold280	44654	AA	GG	1946932908
SNP_P4_120556_61287	NW_004515797.1	Scaffold280	61287	AA	CC	1946932910
SNP_P4_120557_61291	NW_004515797.1	Scaffold280	61291	TT	CC	1946932913
SNP_P4_120558_61294	NW_004515797.1	Scaffold280	61294	AA	TT	1946932915
SNP_P4_120559_61321	NW_004515797.1	Scaffold280	61321	CC	TT	1946932917
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SNP_P4_120562_62526	NW_004515797.1	Scaffold280	62526	CC	AA	1946932924
SNP_P4_120564_71669	NW_004515797.1	Scaffold280	71669	GG	CC	1946932926
SNP_P4_120565_73675	NW_004515797.1	Scaffold280	73675	GG	CC	1946932928
SNP_P4_120566_73740	NW_004515797.1	Scaffold280	73740	CC	TT	1946932930
SNP_P4_120567_73775	NW_004515797.1	Scaffold280	73775	TT	CC	1946932933
SNP_P4_120568_74198	NW_004515797.1	Scaffold280	74198	TT	CC	1946932935
SNP_P4_120569_74205	NW_004515797.1	Scaffold280	74205	TT	CC	1946932937
SNP_P4_120570_74222	NW_004515797.1	Scaffold280	74222	CC	AA	1946932939
SNP_P4_120571_74232	NW_004515797.1	Scaffold280	74232	AA	GG	1946932941
SNP_P4_120572_74248	NW_004515797.1	Scaffold280	74248	TT	CC	1946932943
SNP_P4_120574_83350	NW_004515797.1	Scaffold280	83350	CC	AA	1946932945
SNP_P4_120575_83355	NW_004515797.1	Scaffold280	83355	TT	AA	1946932947
SNP_P4_120576_83437	NW_004515797.1	Scaffold280	83437	AA	CC	1946932949
SNP_P4_120577_83702	NW_004515797.1	Scaffold280	83702	TT	AA	1946932951
SNP_P4_120578_93852	NW_004515797.1	Scaffold280	93852	CC	TT	1946932953
SNP_P4_120579_97931	NW_004515797.1	Scaffold280	97931	TT	GG	1946932955
SNP_P4_120580_97943	NW_004515797.1	Scaffold280	97943	TT	GG	1946932957
SNP_P4_120581_97959	NW_004515797.1	Scaffold280	97959	TT	GG	1946932959
SNP_P4_120582_97995	NW_004515797.1	Scaffold280	97995	TT	CC	1946932962
SNP_P4_120583_98038	NW_004515797.1	Scaffold280	98038	TT	AA	1946932964
SNP_P4_120584_98417	NW_004515797.1	Scaffold280	98417	AA	CC	1946932966

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_120587_100054	NW_004515797.1	Scaffold280	100054	TT	CC	1946932972
SNP_P4_120588_102208	NW_004515797.1	Scaffold280	102208	GG	AA	1946932974
SNP_P4_120589_102543	NW_004515797.1	Scaffold280	102543	GG	AA	1946932976
SNP_P4_120591_105598	NW_004515797.1	Scaffold280	105598	TT	CC	1946932978
SNP_P4_120592_105602	NW_004515797.1	Scaffold280	105602	AA	GG	1946932980
SNP_P4_120593_106204	NW_004515797.1	Scaffold280	106204	TT	AA	1946932982
SNP_P4_120594_106224	NW_004515797.1	Scaffold280	106224	AA	GG	1946932984
SNP_P4_120595_106241	NW_004515797.1	Scaffold280	106241	AA	GG	1946932986
SNP_P4_120596_106523	NW_004515797.1	Scaffold280	106523	TT	CC	1946932988
SNP_P4_120597_106554	NW_004515797.1	Scaffold280	106554	TT	AA	1946932990
SNP_P4_120598_106581	NW_004515797.1	Scaffold280	106581	TT	CC	1946932992
SNP_P4_120600_107588	NW_004515797.1	Scaffold280	107588	AA	GG	1946932994
SNP_P4_120601_107713	NW_004515797.1	Scaffold280	107713	TT	GG	1946932996
SNP_P4_120602_107734	NW_004515797.1	Scaffold280	107734	AA	CC	1946932998
SNP_P4_120603_107758	NW_004515797.1	Scaffold280	107758	AA	GG	1946933000
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SNP_P4_120606_107965	NW_004515797.1	Scaffold280	107965	AA	CC	1946933006
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SNP_P4_120617_110356	NW_004515797.1	Scaffold280	110356	TT	CC	1946933029
SNP_P4_120618_112047	NW_004515797.1	Scaffold280	112047	AA	GG	1946933031
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SNP_P4_120620_112108	NW_004515797.1	Scaffold280	112108	GG	AA	1946933035
SNP_P4_120621_112145	NW_004515797.1	Scaffold280	112145	AA	GG	1946933037
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SNP_P4_120627_113514	NW_004515797.1	Scaffold280	113514	TT	GG	1946933050
SNP_P4_120628_113527	NW_004515797.1	Scaffold280	113527	AA	CC	1946933052

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_120631_113826	NW_004515797.1	Scaffold280	113826	AA	GG	1946933059
SNP_P4_120632_113883	NW_004515797.1	Scaffold280	113883	AA	GG	1946933061
SNP_P4_120633_113925	NW_004515797.1	Scaffold280	113925	CC	TT	1946933063
SNP_P4_120634_114036	NW_004515797.1	Scaffold280	114036	AA	GG	1946933065
SNP_P4_120635_114122	NW_004515797.1	Scaffold280	114122	GG	TT	1946933067
SNP_P4_120636_114134	NW_004515797.1	Scaffold280	114134	CC	GG	1946933069
SNP_P4_120637_114202	NW_004515797.1	Scaffold280	114202	AA	GG	1946933072
SNP_P4_120638_114840	NW_004515797.1	Scaffold280	114840	AA	GG	1946933074
SNP_P4_120639_114882	NW_004515797.1	Scaffold280	114882	TT	CC	1946933076
SNP_P4_120640_114920	NW_004515797.1	Scaffold280	114920	TT	CC	1946933078
SNP_P4_120641_115770	NW_004515797.1	Scaffold280	115770	TT	GG	1946933081
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SNP_P4_120644_116803	NW_004515797.1	Scaffold280	116803	AA	GG	1946933087
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SNP_P4_120647_116930	NW_004515797.1	Scaffold280	116930	AA	GG	1946933093
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SNP_P4_120660_119079	NW_004515797.1	Scaffold280	119079	TT	GG	1946933116
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SNP_P4_120665_119310	NW_004515797.1	Scaffold280	119310	AA	CC	1946933126
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SNP_P4_120667_119333	NW_004515797.1	Scaffold280	119333	CC	TT	1946933130
SNP_P4_120668_119412	NW_004515797.1	Scaffold280	119412	AA	CC	1946933132
SNP_P4_120669_119422	NW_004515797.1	Scaffold280	119422	AA	GG	1946933134
SNP_P4_120670_126801	NW_004515797.1	Scaffold280	126801	CC	GG	1946933136
SNP_P4_120671_127661	NW_004515797.1	Scaffold280	127661	CC	TT	1946933138
SNP_P4_120672_128684	NW_004515797.1	Scaffold280	128684	AA	CC	1946933140

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_120674_129281	NW_004515797.1	Scaffold280	129281	CC	AA	1946933142
SNP_P4_120675_132258	NW_004515797.1	Scaffold280	132258	AA	CC	1946933144
SNP_P4_120676_138738	NW_004515797.1	Scaffold280	138738	GG	AA	1946933146
SNP_P4_120677_138786	NW_004515797.1	Scaffold280	138786	TT	GG	1946933148
SNP_P4_120678_138788	NW_004515797.1	Scaffold280	138788	AA	TT	1946933150
SNP_P4_120679_138940	NW_004515797.1	Scaffold280	138940	TT	GG	1946933152
SNP_P4_120680_141123	NW_004515797.1	Scaffold280	141123	GG	AA	1946933154
SNP_P4_120681_159956	NW_004515797.1	Scaffold280	159956	TT	AA	1946933156
SNP_P4_120682_159980	NW_004515797.1	Scaffold280	159980	CC	AA	1946933158
SNP_P4_120683_160335	NW_004515797.1	Scaffold280	160335	GG	AA	1946933160
SNP_P4_120684_166230	NW_004515797.1	Scaffold280	166230	CC	TT	1946933162
SNP_P4_120685_166308	NW_004515797.1	Scaffold280	166308	CC	AA	1946933164
SNP_P4_120686_166500	NW_004515797.1	Scaffold280	166500	GG	AA	1946933166
SNP_P4_120687_166547	NW_004515797.1	Scaffold280	166547	TT	AA	1946933169
SNP_P4_120688_166564	NW_004515797.1	Scaffold280	166564	AA	TT	1946933171
SNP_P4_120689_166630	NW_004515797.1	Scaffold280	166630	TT	AA	1946933173
SNP_P4_120690_166664	NW_004515797.1	Scaffold280	166664	AA	CC	1946933175
SNP_P4_120691_174533	NW_004515797.1	Scaffold280	174533	GG	AA	1946933177
SNP_P4_120692_177855	NW_004515797.1	Scaffold280	177855	TT	CC	1946933179
SNP_P4_120693_177856	NW_004515797.1	Scaffold280	177856	AA	CC	1946933181
SNP_P4_120694_185747	NW_004515797.1	Scaffold280	185747	TT	AA	1946933183
SNP_P4_120695_188504	NW_004515797.1	Scaffold280	188504	CC	GG	1946933185
SNP_P4_120696_192519	NW_004515797.1	Scaffold280	192519	AA	TT	1946933187
SNP_P4_120697_192529	NW_004515797.1	Scaffold280	192529	TT	CC	1946933189
SNP_P4_120698_192802	NW_004515797.1	Scaffold280	192802	GG	AA	1946933191
SNP_P4_120699_192807	NW_004515797.1	Scaffold280	192807	TT	CC	1946933194
SNP_P4_120700_192812	NW_004515797.1	Scaffold280	192812	TT	CC	1946933196
SNP_P4_120701_194929	NW_004515797.1	Scaffold280	194929	AA	TT	1946933198
SNP_P4_120702_199889	NW_004515797.1	Scaffold280	199889	GG	AA	1946933200
SNP_P4_120703_200313	NW_004515797.1	Scaffold280	200313	AA	GG	1946933202
SNP_P4_120704_200332	NW_004515797.1	Scaffold280	200332	CC	GG	1946933204
SNP_P4_120705_200448	NW_004515797.1	Scaffold280	200448	CC	AA	1946933206
SNP_P4_120706_200569	NW_004515797.1	Scaffold280	200569	AA	TT	1946933208
SNP_P4_120707_206063	NW_004515797.1	Scaffold280	206063	AA	GG	1946933210
SNP_P4_120708_206136	NW_004515797.1	Scaffold280	206136	CC	GG	1946933212
SNP_P4_120709_206234	NW_004515797.1	Scaffold280	206234	TT	CC	1946933215
SNP_P4_120710_206273	NW_004515797.1	Scaffold280	206273	CC	AA	1946933217
SNP_P4_120711_208522	NW_004515797.1	Scaffold280	208522	AA	GG	1946933219
SNP_P4_120712_208524	NW_004515797.1	Scaffold280	208524	AA	CC	1946933221
SNP_P4_120713_214699	NW_004515797.1	Scaffold280	214699	TT	CC	1946933223
SNP_P4_120714_217961	NW_004515797.1	Scaffold280	217961	GG	AA	1946933225
SNP_P4_120715_220831	NW_004515797.1	Scaffold280	220831	GG	AA	1946933227

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_120716_221107	NW_004515797.1	Scaffold280	221107	AA	TT	1946933229
SNP_P4_120717_221123	NW_004515797.1	Scaffold280	221123	CC	TT	1946933231
SNP_P4_120718_221134	NW_004515797.1	Scaffold280	221134	TT	GG	1946933233
SNP_P4_120719_225989	NW_004515797.1	Scaffold280	225989	TT	GG	1946933235
SNP_P4_120720_240018	NW_004515797.1	Scaffold280	240018	CC	AA	1946933237
SNP_P4_120721_240106	NW_004515797.1	Scaffold280	240106	AA	GG	1946933239
SNP_P4_120722_240143	NW_004515797.1	Scaffold280	240143	TT	CC	1946933241
SNP_P4_120723_240144	NW_004515797.1	Scaffold280	240144	GG	AA	1946933243
SNP_P4_120724_258455	NW_004515797.1	Scaffold280	258455	TT	GG	1946933245
SNP_P4_120725_258463	NW_004515797.1	Scaffold280	258463	AA	CC	1946933247
SNP_P4_120726_258481	NW_004515797.1	Scaffold280	258481	CC	TT	1946933249
SNP_P4_120727_258484	NW_004515797.1	Scaffold280	258484	GG	TT	1946933252
SNP_P4_120728_258490	NW_004515797.1	Scaffold280	258490	TT	GG	1946933254
SNP_P4_120730_276359	NW_004515797.1	Scaffold280	276359	TT	CC	1946933256
SNP_P4_120731_284098	NW_004515797.1	Scaffold280	284098	AA	GG	1946933258
SNP_P4_120732_284172	NW_004515797.1	Scaffold280	284172	AA	CC	1946933260
SNP_P4_120733_294604	NW_004515797.1	Scaffold280	294604	CC	TT	1946933262
SNP_P4_120734_294980	NW_004515797.1	Scaffold280	294980	AA	GG	1946933264
SNP_P4_120735_295564	NW_004515797.1	Scaffold280	295564	AA	GG	1946933266
SNP_P4_120736_295920	NW_004515797.1	Scaffold280	295920	AA	CC	1946933268
SNP_P4_120737_295937	NW_004515797.1	Scaffold280	295937	AA	GG	1946933270
SNP_P4_120738_296168	NW_004515797.1	Scaffold280	296168	CC	TT	1946933272
SNP_P4_120739_298693	NW_004515797.1	Scaffold280	298693	TT	CC	1946933274
SNP_P4_120740_302072	NW_004515797.1	Scaffold280	302072	TT	CC	1946933276
SNP_P4_120742_302201	NW_004515797.1	Scaffold280	302201	GG	AA	1946933278
SNP_P4_120743_302533	NW_004515797.1	Scaffold280	302533	GG	AA	1946933280
SNP_P4_120744_302535	NW_004515797.1	Scaffold280	302535	AA	CC	1946933282
SNP_P4_120745_302908	NW_004515797.1	Scaffold280	302908	AA	GG	1946933284
SNP_P4_120746_304407	NW_004515797.1	Scaffold280	304407	CC	AA	1946933286
SNP_P4_120747_304825	NW_004515797.1	Scaffold280	304825	AA	GG	1946933288
SNP_P4_120748_305165	NW_004515797.1	Scaffold280	305165	TT	CC	1946933290
SNP_P4_120749_305170	NW_004515797.1	Scaffold280	305170	TT	GG	1946933292
SNP_P4_120750_305174	NW_004515797.1	Scaffold280	305174	CC	GG	1946933295
SNP_P4_120751_305277	NW_004515797.1	Scaffold280	305277	TT	CC	1946933297
SNP_P4_120752_319573	NW_004515797.1	Scaffold280	319573	TT	GG	1946933299
SNP_P4_120753_319605	NW_004515797.1	Scaffold280	319605	CC	TT	1946933301
SNP_P4_120754_319647	NW_004515797.1	Scaffold280	319647	GG	CC	1946933303
SNP_P4_120755_319648	NW_004515797.1	Scaffold280	319648	AA	TT	1946933305
SNP_P4_120756_319835	NW_004515797.1	Scaffold280	319835	TT	GG	1946933307
SNP_P4_120758_320022	NW_004515797.1	Scaffold280	320022	TT	AA	1946933309
SNP_P4_120759_320172	NW_004515797.1	Scaffold280	320172	TT	CC	1946933311
SNP_P4_120760_320671	NW_004515797.1	Scaffold280	320671	TT	GG	1946933313

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_120761_323423	NW_004515797.1	Scaffold280	323423	AA	TT	1946933315
SNP_P4_120762_323567	NW_004515797.1	Scaffold280	323567	GG	AA	1946933317
SNP_P4_120763_323578	NW_004515797.1	Scaffold280	323578	AA	CC	1946933319
SNP_P4_120764_324370	NW_004515797.1	Scaffold280	324370	GG	AA	1946933321
SNP_P4_120765_324390	NW_004515797.1	Scaffold280	324390	TT	GG	1946933323
SNP_P4_120766_324426	NW_004515797.1	Scaffold280	324426	CC	TT	1946933325
SNP_P4_120767_324442	NW_004515797.1	Scaffold280	324442	GG	TT	1946933328
SNP_P4_120768_324466	NW_004515797.1	Scaffold280	324466	AA	CC	1946933330
SNP_P4_120769_324472	NW_004515797.1	Scaffold280	324472	GG	AA	1946933332
SNP_P4_120770_324527	NW_004515797.1	Scaffold280	324527	TT	AA	1946933334
SNP_P4_120771_325942	NW_004515797.1	Scaffold280	325942	TT	AA	1946933336
SNP_P4_120773_334734	NW_004515797.1	Scaffold280	334734	TT	CC	1946933338
SNP_P4_120774_334735	NW_004515797.1	Scaffold280	334735	TT	GG	1946933340
SNP_P4_120775_334742	NW_004515797.1	Scaffold280	334742	TT	CC	1946933342
SNP_P4_120776_335192	NW_004515797.1	Scaffold280	335192	TT	GG	1946933344
SNP_P4_120777_335237	NW_004515797.1	Scaffold280	335237	TT	CC	1946933346
SNP_P4_120778_335269	NW_004515797.1	Scaffold280	335269	AA	GG	1946933348
SNP_P4_120779_335342	NW_004515797.1	Scaffold280	335342	AA	TT	1946933350
SNP_P4_120780_335479	NW_004515797.1	Scaffold280	335479	CC	TT	1946933352
SNP_P4_120781_335525	NW_004515797.1	Scaffold280	335525	TT	GG	1946933354
SNP_P4_120782_335682	NW_004515797.1	Scaffold280	335682	AA	GG	1946933356
SNP_P4_120783_335691	NW_004515797.1	Scaffold280	335691	AA	GG	1946933358
SNP_P4_120784_335700	NW_004515797.1	Scaffold280	335700	AA	GG	1946933361
SNP_P4_120785_336885	NW_004515797.1	Scaffold280	336885	AA	TT	1946933363
SNP_P4_120786_342253	NW_004515797.1	Scaffold280	342253	TT	CC	1946933365
SNP_P4_120787_344009	NW_004515797.1	Scaffold280	344009	TT	AA	1946933367
SNP_P4_120788_352432	NW_004515797.1	Scaffold280	352432	CC	AA	1946933369
SNP_P4_120789_352450	NW_004515797.1	Scaffold280	352450	TT	CC	1946933371
SNP_P4_120790_352542	NW_004515797.1	Scaffold280	352542	TT	CC	1946933373
SNP_P4_120791_373486	NW_004515797.1	Scaffold280	373486	GG	TT	1946933376
SNP_P4_120792_373494	NW_004515797.1	Scaffold280	373494	GG	AA	1946933378
SNP_P4_120793_373516	NW_004515797.1	Scaffold280	373516	TT	CC	1946933380
SNP_P4_120794_373528	NW_004515797.1	Scaffold280	373528	AA	CC	1946933382
SNP_P4_120795_373604	NW_004515797.1	Scaffold280	373604	GG	TT	1946933384
SNP_P4_120796_373644	NW_004515797.1	Scaffold280	373644	TT	CC	1946933386
SNP_P4_120797_373785	NW_004515797.1	Scaffold280	373785	AA	GG	1946933388
SNP_P4_120798_373807	NW_004515797.1	Scaffold280	373807	AA	CC	1946933390
SNP_P4_120799_373926	NW_004515797.1	Scaffold280	373926	CC	TT	1946933392
SNP_P4_120800_373945	NW_004515797.1	Scaffold280	373945	AA	CC	1946933394
SNP_P4_120801_373950	NW_004515797.1	Scaffold280	373950	GG	AA	1946933396
SNP_P4_120802_374359	NW_004515797.1	Scaffold280	374359	GG	AA	1946933399
SNP_P4_120803_374518	NW_004515797.1	Scaffold280	374518	AA	TT	1946933401

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_120805_374811	NW_004515797.1	Scaffold280	374811	AA	GG	1946933405
SNP_P4_120806_374890	NW_004515797.1	Scaffold280	374890	TT	CC	1946933407
SNP_P4_120807_374902	NW_004515797.1	Scaffold280	374902	TT	CC	1946933409
SNP_P4_120808_375152	NW_004515797.1	Scaffold280	375152	AA	GG	1946933411
SNP_P4_120809_378472	NW_004515797.1	Scaffold280	378472	AA	GG	1946933413
SNP_P4_120810_378479	NW_004515797.1	Scaffold280	378479	GG	AA	1946933415
SNP_P4_120811_378651	NW_004515797.1	Scaffold280	378651	GG	AA	1946933417
SNP_P4_120812_378853	NW_004515797.1	Scaffold280	378853	CC	AA	1946933419
SNP_P4_120813_378885	NW_004515797.1	Scaffold280	378885	TT	AA	1946933421
SNP_P4_120814_378934	NW_004515797.1	Scaffold280	378934	TT	CC	1946933423
SNP_P4_120815_379148	NW_004515797.1	Scaffold280	379148	AA	CC	1946933425
SNP_P4_120816_379510	NW_004515797.1	Scaffold280	379510	TT	CC	1946933427
SNP_P4_120817_379569	NW_004515797.1	Scaffold280	379569	AA	GG	1946933429
SNP_P4_120818_379573	NW_004515797.1	Scaffold280	379573	AA	TT	1946933431
SNP_P4_120819_381775	NW_004515797.1	Scaffold280	381775	CC	AA	1946933433
SNP_P4_120820_381780	NW_004515797.1	Scaffold280	381780	GG	CC	1946933435
SNP_P4_120821_381795	NW_004515797.1	Scaffold280	381795	CC	GG	1946933437
SNP_P4_120822_381816	NW_004515797.1	Scaffold280	381816	AA	CC	1946933439
SNP_P4_120823_381825	NW_004515797.1	Scaffold280	381825	AA	TT	1946933441
SNP_P4_120824_381827	NW_004515797.1	Scaffold280	381827	AA	GG	1946933443
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SNP_P4_120827_382141	NW_004515797.1	Scaffold280	382141	GG	TT	1946933449
SNP_P4_120828_382196	NW_004515797.1	Scaffold280	382196	GG	AA	1946933452
SNP_P4_120829_384744	NW_004515797.1	Scaffold280	384744	TT	CC	1946933454
SNP_P4_120830_387229	NW_004515797.1	Scaffold280	387229	TT	CC	1946933456
SNP_P4_120831_390345	NW_004515797.1	Scaffold280	390345	TT	CC	1946933459
SNP_P4_120832_392489	NW_004515797.1	Scaffold280	392489	TT	AA	1946933461
SNP_P4_120833_392558	NW_004515797.1	Scaffold280	392558	CC	TT	1946933463
SNP_P4_120834_626	NW_004515798.1	Scaffold281	626	TT	CC	1946933465
SNP_P4_120835_629	NW_004515798.1	Scaffold281	629	CC	TT	1946933467
SNP_P4_120836_699	NW_004515798.1	Scaffold281	699	AA	GG	1946933469
SNP_P4_120837_739	NW_004515798.1	Scaffold281	739	AA	TT	1946933471
SNP_P4_120838_791	NW_004515798.1	Scaffold281	791	GG	AA	1946933473
SNP_P4_120839_793	NW_004515798.1	Scaffold281	793	GG	AA	1946933475
SNP_P4_120840_802	NW_004515798.1	Scaffold281	802	AA	GG	1946933477
SNP_P4_120841_817	NW_004515798.1	Scaffold281	817	CC	GG	1946933479
SNP_P4_120842_857	NW_004515798.1	Scaffold281	857	GG	AA	1946933482
SNP_P4_120843_910	NW_004515798.1	Scaffold281	910	TT	CC	1946933484
SNP_P4_120844_930	NW_004515798.1	Scaffold281	930	GG	AA	1946933486
SNP_P4_120845_1013	NW_004515798.1	Scaffold281	1013	GG	AA	1946933488

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_120847_1143	NW_004515798.1	Scaffold281	1143	AA	GG	1946933492
SNP_P4_120848_1170	NW_004515798.1	Scaffold281	1170	CC	TT	1946933494
SNP_P4_120849_1195	NW_004515798.1	Scaffold281	1195	CC	TT	1946933496
SNP_P4_120850_1217	NW_004515798.1	Scaffold281	1217	GG	TT	1946933498
SNP_P4_120851_1251	NW_004515798.1	Scaffold281	1251	AA	GG	1946933500
SNP_P4_120853_1322	NW_004515798.1	Scaffold281	1322	TT	CC	1946933502
SNP_P4_120856_1547	NW_004515798.1	Scaffold281	1547	TT	CC	1946933504
SNP_P4_120857_1575	NW_004515798.1	Scaffold281	1575	CC	TT	1946933506
SNP_P4_120858_1618	NW_004515798.1	Scaffold281	1618	GG	TT	1946933509
SNP_P4_120859_1652	NW_004515798.1	Scaffold281	1652	TT	AA	1946933511
SNP_P4_120860_1653	NW_004515798.1	Scaffold281	1653	GG	AA	1946933513
SNP_P4_120861_1657	NW_004515798.1	Scaffold281	1657	TT	CC	1946933515
SNP_P4_120862_1661	NW_004515798.1	Scaffold281	1661	TT	CC	1946933517
SNP_P4_120863_1711	NW_004515798.1	Scaffold281	1711	AA	GG	1946933519
SNP_P4_120864_1721	NW_004515798.1	Scaffold281	1721	TT	AA	1946933521
SNP_P4_120865_1755	NW_004515798.1	Scaffold281	1755	CC	TT	1946933523
SNP_P4_120866_1775	NW_004515798.1	Scaffold281	1775	AA	GG	1946933525
SNP_P4_120867_1779	NW_004515798.1	Scaffold281	1779	AA	GG	1946933527
SNP_P4_120868_1782	NW_004515798.1	Scaffold281	1782	GG	AA	1946933529
SNP_P4_120869_2046	NW_004515798.1	Scaffold281	2046	AA	TT	1946933531
SNP_P4_120870_2138	NW_004515798.1	Scaffold281	2138	AA	GG	1946933533
SNP_P4_120871_2159	NW_004515798.1	Scaffold281	2159	GG	CC	1946933535
SNP_P4_120873_2268	NW_004515798.1	Scaffold281	2268	CC	TT	1946933537
SNP_P4_120874_2273	NW_004515798.1	Scaffold281	2273	CC	TT	1946933540
SNP_P4_120875_2278	NW_004515798.1	Scaffold281	2278	TT	CC	1946933542
SNP_P4_120876_2286	NW_004515798.1	Scaffold281	2286	AA	TT	1946933544
SNP_P4_120877_2622	NW_004515798.1	Scaffold281	2622	CC	TT	1946933546
SNP_P4_120878_2624	NW_004515798.1	Scaffold281	2624	TT	CC	1946933548
SNP_P4_120879_2625	NW_004515798.1	Scaffold281	2625	TT	GG	1946933550
SNP_P4_120880_2659	NW_004515798.1	Scaffold281	2659	CC	TT	1946933552
SNP_P4_120881_2831	NW_004515798.1	Scaffold281	2831	CC	TT	1946933554
SNP_P4_120882_2911	NW_004515798.1	Scaffold281	2911	TT	AA	1946933556
SNP_P4_120883_2935	NW_004515798.1	Scaffold281	2935	GG	TT	1946933558
SNP_P4_120885_3032	NW_004515798.1	Scaffold281	3032	TT	CC	1946933560
SNP_P4_120886_3034	NW_004515798.1	Scaffold281	3034	CC	TT	1946933562
SNP_P4_120888_3141	NW_004515798.1	Scaffold281	3141	AA	CC	1946933564
SNP_P4_120889_3256	NW_004515798.1	Scaffold281	3256	TT	CC	1946933566
SNP_P4_120890_3274	NW_004515798.1	Scaffold281	3274	TT	CC	1946933568
SNP_P4_120892_3362	NW_004515798.1	Scaffold281	3362	CC	AA	1946933570
SNP_P4_120894_3433	NW_004515798.1	Scaffold281	3433	TT	AA	1946933572
SNP_P4_120895_3439	NW_004515798.1	Scaffold281	3439	GG	AA	1946933575

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_120896_3442	NW_004515798.1	Scaffold281	3442	GG	CC	1946933577
SNP_P4_120897_3480	NW_004515798.1	Scaffold281	3480	CC	GG	1946933579
SNP_P4_120898_3510	NW_004515798.1	Scaffold281	3510	TT	CC	1946933581
SNP_P4_120899_3561	NW_004515798.1	Scaffold281	3561	AA	TT	1946933583
SNP_P4_120900_3603	NW_004515798.1	Scaffold281	3603	AA	GG	1946933585
SNP_P4_120901_3648	NW_004515798.1	Scaffold281	3648	AA	GG	1946933587
SNP_P4_120902_3651	NW_004515798.1	Scaffold281	3651	TT	CC	1946933589
SNP_P4_120903_3694	NW_004515798.1	Scaffold281	3694	TT	CC	1946933591
SNP_P4_120904_3719	NW_004515798.1	Scaffold281	3719	CC	TT	1946933593
SNP_P4_120906_3757	NW_004515798.1	Scaffold281	3757	CC	TT	1946933595
SNP_P4_120907_3810	NW_004515798.1	Scaffold281	3810	GG	CC	1946933597
SNP_P4_120908_3880	NW_004515798.1	Scaffold281	3880	AA	GG	1946933600
SNP_P4_120909_3908	NW_004515798.1	Scaffold281	3908	AA	CC	1946933602
SNP_P4_120910_4031	NW_004515798.1	Scaffold281	4031	AA	CC	1946933604
SNP_P4_120911_4093	NW_004515798.1	Scaffold281	4093	TT	AA	1946933606
SNP_P4_120913_4173	NW_004515798.1	Scaffold281	4173	AA	GG	1946933608
SNP_P4_120915_4234	NW_004515798.1	Scaffold281	4234	TT	CC	1946933610
SNP_P4_120916_4248	NW_004515798.1	Scaffold281	4248	TT	CC	1946933612
SNP_P4_120917_4347	NW_004515798.1	Scaffold281	4347	TT	AA	1946933614
SNP_P4_120918_4807	NW_004515798.1	Scaffold281	4807	GG	TT	1946933616
SNP_P4_120920_4976	NW_004515798.1	Scaffold281	4976	AA	CC	1946933618
SNP_P4_120922_5149	NW_004515798.1	Scaffold281	5149	TT	CC	1946933620
SNP_P4_120923_5157	NW_004515798.1	Scaffold281	5157	CC	TT	1946933622
SNP_P4_120924_5168	NW_004515798.1	Scaffold281	5168	TT	CC	1946933624
SNP_P4_120925_5181	NW_004515798.1	Scaffold281	5181	TT	AA	1946933626
SNP_P4_120926_5182	NW_004515798.1	Scaffold281	5182	AA	CC	1946933628
SNP_P4_120927_5199	NW_004515798.1	Scaffold281	5199	GG	AA	1946933630
SNP_P4_120928_5200	NW_004515798.1	Scaffold281	5200	CC	TT	1946933632
SNP_P4_120929_5345	NW_004515798.1	Scaffold281	5345	TT	CC	1946933634
SNP_P4_120930_5362	NW_004515798.1	Scaffold281	5362	AA	GG	1946933636
SNP_P4_120931_5363	NW_004515798.1	Scaffold281	5363	CC	GG	1946933638
SNP_P4_120932_5400	NW_004515798.1	Scaffold281	5400	GG	CC	1946933640
SNP_P4_120933_5401	NW_004515798.1	Scaffold281	5401	CC	GG	1946933642
SNP_P4_120934_5406	NW_004515798.1	Scaffold281	5406	CC	TT	1946933644
SNP_P4_120935_5436	NW_004515798.1	Scaffold281	5436	CC	AA	1946933646
SNP_P4_120936_5442	NW_004515798.1	Scaffold281	5442	GG	AA	1946933648
SNP_P4_120937_5455	NW_004515798.1	Scaffold281	5455	AA	GG	1946933650
SNP_P4_120938_6505	NW_004515798.1	Scaffold281	6505	TT	AA	1946933652
SNP_P4_120939_6526	NW_004515798.1	Scaffold281	6526	TT	CC	1946933654
SNP_P4_120940_6569	NW_004515798.1	Scaffold281	6569	TT	CC	1946933657
SNP_P4_120941_6575	NW_004515798.1	Scaffold281	6575	AA	CC	1946933659
SNP_P4_120942_6600	NW_004515798.1	Scaffold281	6600	GG	TT	1946933661

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_120944_6905	NW_004515798.1	Scaffold281	6905	AA	GG	1946933665
SNP_P4_120945_6921	NW_004515798.1	Scaffold281	6921	CC	TT	1946933667
SNP_P4_120946_6931	NW_004515798.1	Scaffold281	6931	CC	GG	1946933669
SNP_P4_120947_6999	NW_004515798.1	Scaffold281	6999	AA	GG	1946933671
SNP_P4_120948_7051	NW_004515798.1	Scaffold281	7051	GG	AA	1946933673
SNP_P4_120949_8346	NW_004515798.1	Scaffold281	8346	AA	GG	1946933675
SNP_P4_120950_8402	NW_004515798.1	Scaffold281	8402	TT	CC	1946933677
SNP_P4_120951_8457	NW_004515798.1	Scaffold281	8457	CC	AA	1946933679
SNP_P4_120952_8748	NW_004515798.1	Scaffold281	8748	AA	GG	1946933681
SNP_P4_120953_8824	NW_004515798.1	Scaffold281	8824	AA	TT	1946933683
SNP_P4_120954_8871	NW_004515798.1	Scaffold281	8871	GG	AA	1946933685
SNP_P4_120955_9266	NW_004515798.1	Scaffold281	9266	TT	CC	1946933687
SNP_P4_120956_9277	NW_004515798.1	Scaffold281	9277	GG	CC	1946933689
SNP_P4_120957_9321	NW_004515798.1	Scaffold281	9321	CC	AA	1946933691
SNP_P4_120958_9337	NW_004515798.1	Scaffold281	9337	CC	TT	1946933693
SNP_P4_120959_9343	NW_004515798.1	Scaffold281	9343	GG	CC	1946933695
SNP_P4_120960_9372	NW_004515798.1	Scaffold281	9372	TT	CC	1946933697
SNP_P4_120961_27037	NW_004515798.1	Scaffold281	27037	CC	TT	1946933700
SNP_P4_120962_27223	NW_004515798.1	Scaffold281	27223	CC	TT	1946933702
SNP_P4_120963_27225	NW_004515798.1	Scaffold281	27225	TT	GG	1946933704
SNP_P4_120964_27245	NW_004515798.1	Scaffold281	27245	AA	GG	1946933706
SNP_P4_120965_27248	NW_004515798.1	Scaffold281	27248	AA	GG	1946933708
SNP_P4_120966_27249	NW_004515798.1	Scaffold281	27249	TT	GG	1946933710
SNP_P4_120967_27268	NW_004515798.1	Scaffold281	27268	AA	GG	1946933712
SNP_P4_120968_27314	NW_004515798.1	Scaffold281	27314	AA	GG	1946933714
SNP_P4_120969_27317	NW_004515798.1	Scaffold281	27317	AA	GG	1946933716
SNP_P4_120970_27338	NW_004515798.1	Scaffold281	27338	AA	GG	1946933718
SNP_P4_120971_27349	NW_004515798.1	Scaffold281	27349	GG	AA	1946933720
SNP_P4_120972_27359	NW_004515798.1	Scaffold281	27359	TT	GG	1946933722
SNP_P4_120973_27394	NW_004515798.1	Scaffold281	27394	AA	TT	1946933724
SNP_P4_120974_27396	NW_004515798.1	Scaffold281	27396	AA	TT	1946933726
SNP_P4_120975_27468	NW_004515798.1	Scaffold281	27468	GG	TT	1946933728
SNP_P4_120976_28627	NW_004515798.1	Scaffold281	28627	GG	TT	1946933730
SNP_P4_120977_29202	NW_004515798.1	Scaffold281	29202	TT	GG	1946933732
SNP_P4_120978_898	NW_004515799.1	Scaffold282	898	CC	AA	1946933734
SNP_P4_120979_6105	NW_004515799.1	Scaffold282	6105	TT	CC	1946933736
SNP_P4_120980_7915	NW_004515799.1	Scaffold282	7915	AA	TT	1946933738
SNP_P4_120981_8653	NW_004515799.1	Scaffold282	8653	GG	AA	1946933740
SNP_P4_120982_18903	NW_004515799.1	Scaffold282	18903	GG	TT	1946933742
SNP_P4_120983_38127	NW_004515799.1	Scaffold282	38127	AA	GG	1946933744
SNP_P4_120984_38197	NW_004515799.1	Scaffold282	38197	TT	GG	1946933746

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_120986_39573	NW_004515799.1	Scaffold282	39573	CC	TT	1946933750
SNP_P4_120987_39578	NW_004515799.1	Scaffold282	39578	CC	TT	1946933752
SNP_P4_120988_39692	NW_004515799.1	Scaffold282	39692	GG	AA	1946933754
SNP_P4_120989_39717	NW_004515799.1	Scaffold282	39717	GG	CC	1946933756
SNP_P4_120990_39728	NW_004515799.1	Scaffold282	39728	CC	TT	1946933758
SNP_P4_120991_39732	NW_004515799.1	Scaffold282	39732	GG	CC	1946933760
SNP_P4_120992_39921	NW_004515799.1	Scaffold282	39921	CC	TT	1946933762
SNP_P4_120993_39925	NW_004515799.1	Scaffold282	39925	TT	CC	1946933764
SNP_P4_120994_39947	NW_004515799.1	Scaffold282	39947	GG	AA	1946933766
SNP_P4_120995_40119	NW_004515799.1	Scaffold282	40119	AA	TT	1946933768
SNP_P4_120996_40120	NW_004515799.1	Scaffold282	40120	TT	CC	1946933770
SNP_P4_120997_40156	NW_004515799.1	Scaffold282	40156	AA	GG	1946933772
SNP_P4_120998_52007	NW_004515799.1	Scaffold282	52007	GG	AA	1946933774
SNP_P4_120999_61651	NW_004515799.1	Scaffold282	61651	CC	AA	1946933776
SNP_P4_121000_62765	NW_004515799.1	Scaffold282	62765	TT	GG	1946933778
SNP_P4_121001_70502	NW_004515799.1	Scaffold282	70502	GG	TT	1946933780
SNP_P4_121002_70505	NW_004515799.1	Scaffold282	70505	TT	CC	1946933782
SNP_P4_121003_75054	NW_004515799.1	Scaffold282	75054	CC	TT	1946933784
SNP_P4_121004_75273	NW_004515799.1	Scaffold282	75273	GG	TT	1946933786
SNP_P4_121005_75274	NW_004515799.1	Scaffold282	75274	GG	AA	1946933788
SNP_P4_121006_75311	NW_004515799.1	Scaffold282	75311	AA	GG	1946933790
SNP_P4_121007_75387	NW_004515799.1	Scaffold282	75387	CC	TT	1946933792
SNP_P4_121008_75389	NW_004515799.1	Scaffold282	75389	TT	CC	1946933794
SNP_P4_121009_75398	NW_004515799.1	Scaffold282	75398	AA	GG	1946933796
SNP_P4_121010_75400	NW_004515799.1	Scaffold282	75400	AA	TT	1946933798
SNP_P4_121011_75425	NW_004515799.1	Scaffold282	75425	CC	TT	1946933800
SNP_P4_121012_75601	NW_004515799.1	Scaffold282	75601	TT	CC	1946933802
SNP_P4_121013_75645	NW_004515799.1	Scaffold282	75645	GG	TT	1946933804
SNP_P4_121014_75671	NW_004515799.1	Scaffold282	75671	CC	AA	1946933806
SNP_P4_121015_75712	NW_004515799.1	Scaffold282	75712	CC	TT	1946933808
SNP_P4_121016_75725	NW_004515799.1	Scaffold282	75725	CC	TT	1946933810
SNP_P4_121017_1973	NW_004515800.1	Scaffold283	1973	CC	TT	1946933812
SNP_P4_121018_1975	NW_004515800.1	Scaffold283	1975	AA	GG	1946933814
SNP_P4_121019_2305	NW_004515800.1	Scaffold283	2305	CC	AA	1946933816
SNP_P4_121020_5421	NW_004515800.1	Scaffold283	5421	AA	GG	1946933818
SNP_P4_121021_5429	NW_004515800.1	Scaffold283	5429	TT	CC	1946933820
SNP_P4_121022_16310	NW_004515800.1	Scaffold283	16310	CC	AA	1946933822
SNP_P4_121023_16347	NW_004515800.1	Scaffold283	16347	TT	AA	1946933824
SNP_P4_121024_16369	NW_004515800.1	Scaffold283	16369	AA	GG	1946933826
SNP_P4_121025_16431	NW_004515800.1	Scaffold283	16431	AA	GG	1946933828
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_121029_25928	NW_004515800.1	Scaffold283	25928	CC	TT	1946933834
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SNP_P4_121033_26213	NW_004515800.1	Scaffold283	26213	GG	TT	1946933841
SNP_P4_121034_29440	NW_004515800.1	Scaffold283	29440	GG	AA	1946933843
SNP_P4_121035_29502	NW_004515800.1	Scaffold283	29502	CC	AA	1946933845
SNP_P4_121036_29924	NW_004515800.1	Scaffold283	29924	AA	GG	1946933847
SNP_P4_121037_29940	NW_004515800.1	Scaffold283	29940	AA	GG	1946933849
SNP_P4_121038_30079	NW_004515800.1	Scaffold283	30079	TT	CC	1946933851
SNP_P4_121039_30267	NW_004515800.1	Scaffold283	30267	GG	AA	1946933853
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SNP_P4_121044_95580	NW_004515800.1	Scaffold283	95580	TT	AA	1946933863
SNP_P4_121045_95602	NW_004515800.1	Scaffold283	95602	CC	TT	1946933865
SNP_P4_121046_95668	NW_004515800.1	Scaffold283	95668	AA	GG	1946933867
SNP_P4_121047_95918	NW_004515800.1	Scaffold283	95918	AA	GG	1946933869
SNP_P4_121048_95966	NW_004515800.1	Scaffold283	95966	TT	GG	1946933872
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SNP_P4_121054_4815	NW_004515801.1	Scaffold284	4815	CC	GG	1946933880
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SNP_P4_121056_5785	NW_004515801.1	Scaffold284	5785	TT	CC	1946933884
SNP_P4_121057_6487	NW_004515801.1	Scaffold284	6487	AA	GG	1946933886
SNP_P4_121058_6633	NW_004515801.1	Scaffold284	6633	TT	CC	1946933888
SNP_P4_121059_6973	NW_004515801.1	Scaffold284	6973	GG	AA	1946933891
SNP_P4_121060_7270	NW_004515801.1	Scaffold284	7270	CC	GG	1946933893
SNP_P4_121061_7600	NW_004515801.1	Scaffold284	7600	GG	AA	1946933895
SNP_P4_121062_10453	NW_004515801.1	Scaffold284	10453	CC	AA	1946933897
SNP_P4_121063_10799	NW_004515801.1	Scaffold284	10799	GG	AA	1946933899
SNP_P4_121064_10820	NW_004515801.1	Scaffold284	10820	GG	AA	1946933901
SNP_P4_121065_11495	NW_004515801.1	Scaffold284	11495	CC	TT	1946933903
SNP_P4_121066_12292	NW_004515801.1	Scaffold284	12292	TT	AA	1946933905
SNP_P4_121067_12378	NW_004515801.1	Scaffold284	12378	CC	AA	1946933907
SNP_P4_121068_13103	NW_004515801.1	Scaffold284	13103	GG	TT	1946933909
SNP_P4_121069_13123	NW_004515801.1	Scaffold284	13123	AA	CC	1946933911
SNP_P4_121071_14900	NW_004515801.1	Scaffold284	14900	AA	TT	1946933913
SNP_P4_121072_15004	NW_004515801.1	Scaffold284	15004	GG	TT	1946933915
SNP_P4_121074_15536	NW_004515801.1	Scaffold284	15536	TT	AA	1946933917

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_121076_17371	NW_004515801.1	Scaffold284	17371	CC	TT	1946933921
SNP_P4_121077_17863	NW_004515801.1	Scaffold284	17863	AA	CC	1946933923
SNP_P4_121078_17873	NW_004515801.1	Scaffold284	17873	TT	CC	1946933925
SNP_P4_121079_17877	NW_004515801.1	Scaffold284	17877	CC	TT	1946933927
SNP_P4_121081_21742	NW_004515801.1	Scaffold284	21742	GG	AA	1946933929
SNP_P4_121082_21839	NW_004515801.1	Scaffold284	21839	AA	CC	1946933931
SNP_P4_121083_21866	NW_004515801.1	Scaffold284	21866	AA	GG	1946933933
SNP_P4_121084_21868	NW_004515801.1	Scaffold284	21868	AA	TT	1946933935
SNP_P4_121085_21880	NW_004515801.1	Scaffold284	21880	TT	CC	1946933937
SNP_P4_121086_22131	NW_004515801.1	Scaffold284	22131	CC	TT	1946933939
SNP_P4_121087_22219	NW_004515801.1	Scaffold284	22219	TT	AA	1946933941
SNP_P4_121088_40183	NW_004515801.1	Scaffold284	40183	AA	GG	1946933943
SNP_P4_121089_40397	NW_004515801.1	Scaffold284	40397	CC	TT	1946933945
SNP_P4_121090_40410	NW_004515801.1	Scaffold284	40410	TT	CC	1946933947
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SNP_P4_121093_40727	NW_004515801.1	Scaffold284	40727	GG	TT	1946933953
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SNP_P4_121100_40773	NW_004515801.1	Scaffold284	40773	CC	AA	1946933967
SNP_P4_121101_40779	NW_004515801.1	Scaffold284	40779	AA	TT	1946933969
SNP_P4_121102_40984	NW_004515801.1	Scaffold284	40984	AA	TT	1946933971
SNP_P4_121103_41008	NW_004515801.1	Scaffold284	41008	AA	GG	1946933973
SNP_P4_121104_41236	NW_004515801.1	Scaffold284	41236	AA	CC	1946933975
SNP_P4_121105_41239	NW_004515801.1	Scaffold284	41239	CC	AA	1946933977
SNP_P4_121106_41246	NW_004515801.1	Scaffold284	41246	AA	CC	1946933979
SNP_P4_121107_47181	NW_004515801.1	Scaffold284	47181	AA	GG	1946933981
SNP_P4_121108_47197	NW_004515801.1	Scaffold284	47197	TT	AA	1946933983
SNP_P4_121109_47557	NW_004515801.1	Scaffold284	47557	CC	AA	1946933985
SNP_P4_121110_47558	NW_004515801.1	Scaffold284	47558	AA	CC	1946933987
SNP_P4_121111_49833	NW_004515801.1	Scaffold284	49833	GG	AA	1946933989
SNP_P4_121112_49893	NW_004515801.1	Scaffold284	49893	TT	GG	1946933991
SNP_P4_121113_49904	NW_004515801.1	Scaffold284	49904	TT	CC	1946933993
SNP_P4_121114_49916	NW_004515801.1	Scaffold284	49916	GG	CC	1946933995
SNP_P4_121115_50028	NW_004515801.1	Scaffold284	50028	CC	TT	1946933997
SNP_P4_121116_50076	NW_004515801.1	Scaffold284	50076	TT	AA	1946933999
SNP_P4_121117_50099	NW_004515801.1	Scaffold284	50099	AA	TT	1946934001

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_121118_50111	NW_004515801.1	Scaffold284	50111	GG	AA	1946934003
SNP_P4_121119_50115	NW_004515801.1	Scaffold284	50115	AA	CC	1946934005
SNP_P4_121120_50116	NW_004515801.1	Scaffold284	50116	TT	GG	1946934007
SNP_P4_121121_50148	NW_004515801.1	Scaffold284	50148	TT	AA	1946934009
SNP_P4_121122_50173	NW_004515801.1	Scaffold284	50173	GG	CC	1946934011
SNP_P4_121123_50201	NW_004515801.1	Scaffold284	50201	TT	AA	1946934013
SNP_P4_121124_50221	NW_004515801.1	Scaffold284	50221	AA	GG	1946934015
SNP_P4_121125_50302	NW_004515801.1	Scaffold284	50302	TT	AA	1946934017
SNP_P4_121126_79862	NW_004515801.1	Scaffold284	79862	CC	TT	1946934019
SNP_P4_121127_79864	NW_004515801.1	Scaffold284	79864	AA	GG	1946934021
SNP_P4_121128_84089	NW_004515801.1	Scaffold284	84089	CC	TT	1946934023
SNP_P4_121129_84510	NW_004515801.1	Scaffold284	84510	GG	AA	1946934025
SNP_P4_121130_84796	NW_004515801.1	Scaffold284	84796	TT	AA	1946934027
SNP_P4_121131_104480	NW_004515801.1	Scaffold284	104480	GG	TT	1946934029
SNP_P4_121132_104533	NW_004515801.1	Scaffold284	104533	CC	TT	1946934031
SNP_P4_121134_119942	NW_004515801.1	Scaffold284	119942	GG	AA	1946934033
SNP_P4_121135_184534	NW_004515801.1	Scaffold284	184534	CC	AA	1946934035
SNP_P4_121136_206950	NW_004515801.1	Scaffold284	206950	TT	GG	1946934037
SNP_P4_121137_207032	NW_004515801.1	Scaffold284	207032	AA	GG	1946934039
SNP_P4_121138_207262	NW_004515801.1	Scaffold284	207262	TT	CC	1946934041
SNP_P4_121139_253014	NW_004515801.1	Scaffold284	253014	TT	CC	1946934043
SNP_P4_121140_257115	NW_004515801.1	Scaffold284	257115	CC	GG	1946934045
SNP_P4_121141_257130	NW_004515801.1	Scaffold284	257130	TT	CC	1946934047
SNP_P4_121142_257134	NW_004515801.1	Scaffold284	257134	TT	AA	1946934049
SNP_P4_121143_257170	NW_004515801.1	Scaffold284	257170	CC	AA	1946934051
SNP_P4_121144_257181	NW_004515801.1	Scaffold284	257181	TT	CC	1946934053
SNP_P4_121145_257184	NW_004515801.1	Scaffold284	257184	AA	TT	1946934055
SNP_P4_121146_257186	NW_004515801.1	Scaffold284	257186	AA	GG	1946934057
SNP_P4_121147_257210	NW_004515801.1	Scaffold284	257210	GG	AA	1946934059
SNP_P4_121148_257246	NW_004515801.1	Scaffold284	257246	CC	TT	1946934061
SNP_P4_121149_257251	NW_004515801.1	Scaffold284	257251	GG	AA	1946934063
SNP_P4_121150_257252	NW_004515801.1	Scaffold284	257252	AA	TT	1946934065
SNP_P4_121151_257435	NW_004515801.1	Scaffold284	257435	CC	AA	1946934067
SNP_P4_121152_257480	NW_004515801.1	Scaffold284	257480	CC	TT	1946934069
SNP_P4_121153_257557	NW_004515801.1	Scaffold284	257557	GG	TT	1946934071
SNP_P4_121154_257560	NW_004515801.1	Scaffold284	257560	AA	GG	1946934073
SNP_P4_121155_267284	NW_004515801.1	Scaffold284	267284	TT	CC	1946934075
SNP_P4_121156_297666	NW_004515801.1	Scaffold284	297666	TT	CC	1946934076
SNP_P4_121157_297671	NW_004515801.1	Scaffold284	297671	GG	AA	1946934078
SNP_P4_121159_352335	NW_004515801.1	Scaffold284	352335	AA	GG	1946934080
SNP_P4_121160_352672	NW_004515801.1	Scaffold284	352672	AA	GG	1946934082
SNP_P4_121161_352859	NW_004515801.1	Scaffold284	352859	AA	GG	1946934084

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_121163_352945	NW_004515801.1	Scaffold284	352945	AA	GG	1946934088
SNP_P4_121164_353197	NW_004515801.1	Scaffold284	353197	GG	AA	1946934090
SNP_P4_121165_353392	NW_004515801.1	Scaffold284	353392	TT	CC	1946934092
SNP_P4_121166_354257	NW_004515801.1	Scaffold284	354257	AA	GG	1946934094
SNP_P4_121167_355103	NW_004515801.1	Scaffold284	355103	AA	GG	1946934096
SNP_P4_121168_365922	NW_004515801.1	Scaffold284	365922	TT	CC	1946934098
SNP_P4_121169_420674	NW_004515801.1	Scaffold284	420674	AA	GG	1946934100
SNP_P4_121170_463252	NW_004515801.1	Scaffold284	463252	CC	TT	1946934102
SNP_P4_121171_463254	NW_004515801.1	Scaffold284	463254	TT	GG	1946934104
SNP_P4_121172_463987	NW_004515801.1	Scaffold284	463987	CC	TT	1946934106
SNP_P4_121173_472743	NW_004515801.1	Scaffold284	472743	CC	TT	1946934108
SNP_P4_121174_472972	NW_004515801.1	Scaffold284	472972	AA	GG	1946934110
SNP_P4_121175_472973	NW_004515801.1	Scaffold284	472973	TT	CC	1946934112
SNP_P4_121176_472990	NW_004515801.1	Scaffold284	472990	AA	GG	1946934114
SNP_P4_121177_472992	NW_004515801.1	Scaffold284	472992	CC	AA	1946934116
SNP_P4_121178_473035	NW_004515801.1	Scaffold284	473035	GG	CC	1946934118
SNP_P4_121179_473061	NW_004515801.1	Scaffold284	473061	CC	TT	1946934120
SNP_P4_121180_473093	NW_004515801.1	Scaffold284	473093	AA	GG	1946934122
SNP_P4_121182_506097	NW_004515801.1	Scaffold284	506097	TT	AA	1946934124
SNP_P4_121183_524629	NW_004515801.1	Scaffold284	524629	AA	TT	1946934126
SNP_P4_121184_524633	NW_004515801.1	Scaffold284	524633	AA	CC	1946934128
SNP_P4_121185_530021	NW_004515801.1	Scaffold284	530021	CC	AA	1946934130
SNP_P4_121186_531572	NW_004515801.1	Scaffold284	531572	AA	GG	1946934132
SNP_P4_121187_534330	NW_004515801.1	Scaffold284	534330	CC	GG	1946934134
SNP_P4_121188_537236	NW_004515801.1	Scaffold284	537236	GG	TT	1946934136
SNP_P4_121189_545611	NW_004515801.1	Scaffold284	545611	TT	GG	1946934138
SNP_P4_121190_579278	NW_004515801.1	Scaffold284	579278	CC	TT	1946934140
SNP_P4_121191_639463	NW_004515801.1	Scaffold284	639463	AA	TT	1946934142
SNP_P4_121193_721918	NW_004515801.1	Scaffold284	721918	TT	AA	1946934144
SNP_P4_121194_722304	NW_004515801.1	Scaffold284	722304	GG	AA	1946934146
SNP_P4_121195_722579	NW_004515801.1	Scaffold284	722579	CC	TT	1946934148
SNP_P4_121196_722602	NW_004515801.1	Scaffold284	722602	AA	TT	1946934150
SNP_P4_121197_748011	NW_004515801.1	Scaffold284	748011	CC	AA	1946934152
SNP_P4_121198_750046	NW_004515801.1	Scaffold284	750046	TT	AA	1946934154
SNP_P4_121199_760980	NW_004515801.1	Scaffold284	760980	CC	GG	1946934156
SNP_P4_121200_766553	NW_004515801.1	Scaffold284	766553	CC	TT	1946934158
SNP_P4_121201_766637	NW_004515801.1	Scaffold284	766637	CC	TT	1946934160
SNP_P4_121202_767213	NW_004515801.1	Scaffold284	767213	CC	TT	1946934162
SNP_P4_121203_767217	NW_004515801.1	Scaffold284	767217	CC	TT	1946934164
SNP_P4_121204_768674	NW_004515801.1	Scaffold284	768674	GG	AA	1946934166
SNP_P4_121205_803196	NW_004515801.1	Scaffold284	803196	TT	CC	1946934168

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_121207_803445	NW_004515801.1	Scaffold284	803445	GG	TT	1946934172
SNP_P4_121209_829049	NW_004515801.1	Scaffold284	829049	TT	AA	1946934174
SNP_P4_121210_861402	NW_004515801.1	Scaffold284	861402	CC	GG	1946934176
SNP_P4_121211_870831	NW_004515801.1	Scaffold284	870831	TT	CC	1946934178
SNP_P4_121212_882209	NW_004515801.1	Scaffold284	882209	CC	AA	1946934180
SNP_P4_121213_902085	NW_004515801.1	Scaffold284	902085	GG	AA	1946934182
SNP_P4_121214_902093	NW_004515801.1	Scaffold284	902093	TT	AA	1946934184
SNP_P4_121216_902101	NW_004515801.1	Scaffold284	902101	AA	GG	1946934186
SNP_P4_121217_902108	NW_004515801.1	Scaffold284	902108	TT	CC	1946934188
SNP_P4_121218_907851	NW_004515801.1	Scaffold284	907851	AA	TT	1946934190
SNP_P4_121219_915266	NW_004515801.1	Scaffold284	915266	CC	TT	1946934192
SNP_P4_121220_915398	NW_004515801.1	Scaffold284	915398	AA	GG	1946934194
SNP_P4_121221_915520	NW_004515801.1	Scaffold284	915520	GG	AA	1946934196
SNP_P4_121222_915761	NW_004515801.1	Scaffold284	915761	TT	GG	1946934198
SNP_P4_121223_915777	NW_004515801.1	Scaffold284	915777	CC	TT	1946934201
SNP_P4_121224_915804	NW_004515801.1	Scaffold284	915804	AA	GG	1946934203
SNP_P4_121225_18511	NW_004515803.1	Scaffold287	18511	AA	TT	1946934205
SNP_P4_121226_18542	NW_004515803.1	Scaffold287	18542	GG	AA	1946934207
SNP_P4_121227_18551	NW_004515803.1	Scaffold287	18551	GG	TT	1946934209
SNP_P4_121228_19184	NW_004515803.1	Scaffold287	19184	CC	AA	1946934211
SNP_P4_121229_19223	NW_004515803.1	Scaffold287	19223	GG	CC	1946934213
SNP_P4_121230_19253	NW_004515803.1	Scaffold287	19253	AA	TT	1946934215
SNP_P4_121231_19257	NW_004515803.1	Scaffold287	19257	TT	GG	1946934217
SNP_P4_121232_19306	NW_004515803.1	Scaffold287	19306	TT	GG	1946934219
SNP_P4_121233_19334	NW_004515803.1	Scaffold287	19334	TT	GG	1946934221
SNP_P4_121234_19358	NW_004515803.1	Scaffold287	19358	AA	TT	1946934223
SNP_P4_121235_19429	NW_004515803.1	Scaffold287	19429	AA	TT	1946934225
SNP_P4_121236_19462	NW_004515803.1	Scaffold287	19462	TT	GG	1946934227
SNP_P4_121237_19499	NW_004515803.1	Scaffold287	19499	GG	AA	1946934229
SNP_P4_121238_19513	NW_004515803.1	Scaffold287	19513	TT	AA	1946934232
SNP_P4_121239_19519	NW_004515803.1	Scaffold287	19519	TT	AA	1946934234
SNP_P4_121240_19534	NW_004515803.1	Scaffold287	19534	TT	CC	1946934236
SNP_P4_121241_19565	NW_004515803.1	Scaffold287	19565	TT	GG	1946934238
SNP_P4_121242_19571	NW_004515803.1	Scaffold287	19571	AA	CC	1946934240
SNP_P4_121243_19577	NW_004515803.1	Scaffold287	19577	TT	AA	1946934242
SNP_P4_121244_19637	NW_004515803.1	Scaffold287	19637	AA	GG	1946934244
SNP_P4_121245_19674	NW_004515803.1	Scaffold287	19674	GG	CC	1946934246
SNP_P4_121246_21091	NW_004515803.1	Scaffold287	21091	CC	AA	1946934248
SNP_P4_121247_21483	NW_004515803.1	Scaffold287	21483	CC	GG	1946934250
SNP_P4_121248_21487	NW_004515803.1	Scaffold287	21487	TT	GG	1946934252
SNP_P4_121249_21495	NW_004515803.1	Scaffold287	21495	CC	GG	1946934254

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_121251_22268	NW_004515803.1	Scaffold287	22268	GG	TT	1946934258
SNP_P4_121252_22419	NW_004515803.1	Scaffold287	22419	CC	TT	1946934260
SNP_P4_121253_22579	NW_004515803.1	Scaffold287	22579	CC	TT	1946934262
SNP_P4_121254_22581	NW_004515803.1	Scaffold287	22581	AA	GG	1946934264
SNP_P4_121255_22591	NW_004515803.1	Scaffold287	22591	TT	CC	1946934266
SNP_P4_121257_22669	NW_004515803.1	Scaffold287	22669	TT	CC	1946934268
SNP_P4_121258_22725	NW_004515803.1	Scaffold287	22725	AA	GG	1946934270
SNP_P4_121259_22732	NW_004515803.1	Scaffold287	22732	GG	AA	1946934272
SNP_P4_121260_22752	NW_004515803.1	Scaffold287	22752	AA	GG	1946934274
SNP_P4_121261_22759	NW_004515803.1	Scaffold287	22759	GG	CC	1946934276
SNP_P4_121262_22971	NW_004515803.1	Scaffold287	22971	GG	TT	1946934278
SNP_P4_121263_25494	NW_004515803.1	Scaffold287	25494	TT	CC	1946934279
SNP_P4_121264_25502	NW_004515803.1	Scaffold287	25502	CC	AA	1946934280
SNP_P4_121265_25547	NW_004515803.1	Scaffold287	25547	AA	GG	1946934281
SNP_P4_121266_26655	NW_004515803.1	Scaffold287	26655	TT	AA	1946934282
SNP_P4_121267_27552	NW_004515803.1	Scaffold287	27552	AA	GG	1946934283
SNP_P4_121268_27568	NW_004515803.1	Scaffold287	27568	GG	TT	1946934284
SNP_P4_121269_27587	NW_004515803.1	Scaffold287	27587	TT	AA	1946934285
SNP_P4_121270_27603	NW_004515803.1	Scaffold287	27603	AA	GG	1946934286
SNP_P4_121271_27618	NW_004515803.1	Scaffold287	27618	AA	TT	1946934288
SNP_P4_121272_52440	NW_004515803.1	Scaffold287	52440	AA	CC	1946934290
SNP_P4_121273_72366	NW_004515803.1	Scaffold287	72366	GG	AA	1946934292
SNP_P4_121274_73238	NW_004515803.1	Scaffold287	73238	AA	GG	1946934294
SNP_P4_121275_83646	NW_004515803.1	Scaffold287	83646	GG	AA	1946934296
SNP_P4_121276_84835	NW_004515803.1	Scaffold287	84835	TT	CC	1946934298
SNP_P4_121277_84838	NW_004515803.1	Scaffold287	84838	AA	TT	1946934300
SNP_P4_121278_85481	NW_004515803.1	Scaffold287	85481	TT	CC	1946934302
SNP_P4_121279_86438	NW_004515803.1	Scaffold287	86438	AA	GG	1946934304
SNP_P4_121280_119205	NW_004515803.1	Scaffold287	119205	TT	AA	1946934306
SNP_P4_121281_137477	NW_004515803.1	Scaffold287	137477	TT	AA	1946934308
SNP_P4_121282_137484	NW_004515803.1	Scaffold287	137484	GG	TT	1946934310
SNP_P4_121283_155732	NW_004515803.1	Scaffold287	155732	AA	GG	1946934312
SNP_P4_121284_170444	NW_004515803.1	Scaffold287	170444	GG	TT	1946934314
SNP_P4_121285_170720	NW_004515803.1	Scaffold287	170720	TT	CC	1946934316
SNP_P4_121286_170746	NW_004515803.1	Scaffold287	170746	TT	GG	1946934318
SNP_P4_121287_170765	NW_004515803.1	Scaffold287	170765	TT	AA	1946934320
SNP_P4_121288_180844	NW_004515803.1	Scaffold287	180844	GG	TT	1946934322
SNP_P4_121289_180846	NW_004515803.1	Scaffold287	180846	TT	GG	1946934324
SNP_P4_121291_181065	NW_004515803.1	Scaffold287	181065	CC	TT	1946934326
SNP_P4_121292_181108	NW_004515803.1	Scaffold287	181108	TT	GG	1946934328
SNP_P4_121293_182599	NW_004515803.1	Scaffold287	182599	CC	TT	1946934330

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_121295_185637	NW_004515803.1	Scaffold287	185637	AA	TT	1946934334
SNP_P4_121297_258571	NW_004515803.1	Scaffold287	258571	AA	GG	1946934336
SNP_P4_121298_269661	NW_004515803.1	Scaffold287	269661	CC	AA	1946934338
SNP_P4_121299_269852	NW_004515803.1	Scaffold287	269852	TT	CC	1946934340
SNP_P4_121300_277799	NW_004515803.1	Scaffold287	277799	TT	CC	1946934342
SNP_P4_121301_277854	NW_004515803.1	Scaffold287	277854	AA	GG	1946934344
SNP_P4_121302_277862	NW_004515803.1	Scaffold287	277862	AA	CC	1946934346
SNP_P4_121304_324611	NW_004515803.1	Scaffold287	324611	AA	GG	1946934348
SNP_P4_121305_330393	NW_004515803.1	Scaffold287	330393	TT	CC	1946934350
SNP_P4_121306_353113	NW_004515803.1	Scaffold287	353113	TT	CC	1946934352
SNP_P4_121307_8922	NW_004515805.1	Scaffold290	8922	TT	CC	1946934354
SNP_P4_121308_8973	NW_004515805.1	Scaffold290	8973	TT	GG	1946934356
SNP_P4_121309_8980	NW_004515805.1	Scaffold290	8980	AA	CC	1946934358
SNP_P4_121310_12634	NW_004515805.1	Scaffold290	12634	CC	TT	1946934360
SNP_P4_121311_13823	NW_004515805.1	Scaffold290	13823	TT	AA	1946934361
SNP_P4_121312_13931	NW_004515805.1	Scaffold290	13931	CC	TT	1946934363
SNP_P4_121313_14075	NW_004515805.1	Scaffold290	14075	CC	AA	1946934365
SNP_P4_121314_14110	NW_004515805.1	Scaffold290	14110	CC	AA	1946934367
SNP_P4_121315_14778	NW_004515805.1	Scaffold290	14778	CC	TT	1946934369
SNP_P4_121316_32074	NW_004515805.1	Scaffold290	32074	CC	AA	1946934371
SNP_P4_121317_33871	NW_004515805.1	Scaffold290	33871	GG	AA	1946934373
SNP_P4_121318_34798	NW_004515805.1	Scaffold290	34798	GG	AA	1946934375
SNP_P4_121319_39296	NW_004515805.1	Scaffold290	39296	TT	AA	1946934377
SNP_P4_121320_40886	NW_004515805.1	Scaffold290	40886	TT	CC	1946934379
SNP_P4_121321_41125	NW_004515805.1	Scaffold290	41125	GG	TT	1946934381
SNP_P4_121322_41493	NW_004515805.1	Scaffold290	41493	CC	TT	1946934383
SNP_P4_121323_42073	NW_004515805.1	Scaffold290	42073	CC	GG	1946934385
SNP_P4_121324_42606	NW_004515805.1	Scaffold290	42606	GG	AA	1946934387
SNP_P4_121325_44938	NW_004515805.1	Scaffold290	44938	CC	TT	1946934389
SNP_P4_121326_44974	NW_004515805.1	Scaffold290	44974	CC	TT	1946934391
SNP_P4_121327_46892	NW_004515805.1	Scaffold290	46892	TT	CC	1946934393
SNP_P4_121328_60822	NW_004515805.1	Scaffold290	60822	AA	GG	1946934395
SNP_P4_121329_61351	NW_004515805.1	Scaffold290	61351	AA	TT	1946934397
SNP_P4_121330_61755	NW_004515805.1	Scaffold290	61755	CC	TT	1946934399
SNP_P4_121331_62780	NW_004515805.1	Scaffold290	62780	AA	GG	1946934401
SNP_P4_121332_63982	NW_004515805.1	Scaffold290	63982	CC	TT	1946934403
SNP_P4_121333_64692	NW_004515805.1	Scaffold290	64692	TT	CC	1946934405
SNP_P4_121334_90320	NW_004515805.1	Scaffold290	90320	TT	CC	1946934407
SNP_P4_121335_91277	NW_004515805.1	Scaffold290	91277	CC	TT	1946934409
SNP_P4_121336_91671	NW_004515805.1	Scaffold290	91671	GG	AA	1946934411
SNP_P4_121337_93103	NW_004515805.1	Scaffold290	93103	TT	CC	1946934413

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_121338_96978	NW_004515805.1	Scaffold290	96978	TT	CC	1946934415
SNP_P4_121340_97460	NW_004515805.1	Scaffold290	97460	GG	CC	1946934417
SNP_P4_121341_98642	NW_004515805.1	Scaffold290	98642	TT	CC	1946934419
SNP_P4_121342_99278	NW_004515805.1	Scaffold290	99278	CC	TT	1946934421
SNP_P4_121344_103750	NW_004515805.1	Scaffold290	103750	TT	CC	1946934423
SNP_P4_121345_106283	NW_004515805.1	Scaffold290	106283	GG	TT	1946934425
SNP_P4_121346_106310	NW_004515805.1	Scaffold290	106310	AA	GG	1946934427
SNP_P4_121347_109951	NW_004515805.1	Scaffold290	109951	GG	TT	1946934429
SNP_P4_121348_110441	NW_004515805.1	Scaffold290	110441	TT	CC	1946934431
SNP_P4_121349_112726	NW_004515805.1	Scaffold290	112726	TT	CC	1946934433
SNP_P4_121351_112788	NW_004515805.1	Scaffold290	112788	GG	CC	1946934435
SNP_P4_121352_112857	NW_004515805.1	Scaffold290	112857	GG	AA	1946934437
SNP_P4_121353_113793	NW_004515805.1	Scaffold290	113793	GG	TT	1946934439
SNP_P4_121354_113849	NW_004515805.1	Scaffold290	113849	GG	AA	1946934441
SNP_P4_121355_117835	NW_004515805.1	Scaffold290	117835	AA	CC	1946934443
SNP_P4_121356_119810	NW_004515805.1	Scaffold290	119810	CC	AA	1946934445
SNP_P4_121357_121969	NW_004515805.1	Scaffold290	121969	CC	GG	1946934447
SNP_P4_121358_125664	NW_004515805.1	Scaffold290	125664	AA	GG	1946934449
SNP_P4_121359_129280	NW_004515805.1	Scaffold290	129280	AA	GG	1946934451
SNP_P4_121360_133860	NW_004515805.1	Scaffold290	133860	CC	TT	1946934453
SNP_P4_121361_135480	NW_004515805.1	Scaffold290	135480	AA	GG	1946934455
SNP_P4_121362_138431	NW_004515805.1	Scaffold290	138431	AA	TT	1946934457
SNP_P4_121363_138502	NW_004515805.1	Scaffold290	138502	GG	CC	1946934459
SNP_P4_121364_140019	NW_004515805.1	Scaffold290	140019	GG	AA	1946934461
SNP_P4_121365_140396	NW_004515805.1	Scaffold290	140396	AA	CC	1946934463
SNP_P4_121366_140868	NW_004515805.1	Scaffold290	140868	GG	TT	1946934465
SNP_P4_121367_140878	NW_004515805.1	Scaffold290	140878	AA	GG	1946934467
SNP_P4_121368_141215	NW_004515805.1	Scaffold290	141215	CC	TT	1946934469
SNP_P4_121369_146318	NW_004515805.1	Scaffold290	146318	CC	TT	1946934471
SNP_P4_121370_153693	NW_004515805.1	Scaffold290	153693	TT	GG	1946934473
SNP_P4_121372_158832	NW_004515805.1	Scaffold290	158832	GG	AA	1946934475
SNP_P4_121373_159455	NW_004515805.1	Scaffold290	159455	TT	AA	1946934477
SNP_P4_121374_161641	NW_004515805.1	Scaffold290	161641	CC	TT	1946934479
SNP_P4_121375_162165	NW_004515805.1	Scaffold290	162165	GG	AA	1946934481
SNP_P4_121376_162205	NW_004515805.1	Scaffold290	162205	TT	CC	1946934483
SNP_P4_121377_166515	NW_004515805.1	Scaffold290	166515	CC	TT	1946934485
SNP_P4_121378_170130	NW_004515805.1	Scaffold290	170130	AA	GG	1946934487
SNP_P4_121379_170275	NW_004515805.1	Scaffold290	170275	GG	AA	1946934489
SNP_P4_121380_170278	NW_004515805.1	Scaffold290	170278	GG	AA	1946934491
SNP_P4_121381_170465	NW_004515805.1	Scaffold290	170465	CC	TT	1946934493
SNP_P4_121382_172179	NW_004515805.1	Scaffold290	172179	AA	CC	1946934495
SNP_P4_121383_174426	NW_004515805.1	Scaffold290	174426	AA	GG	1946934497

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_121386_179341	NW_004515805.1	Scaffold290	179341	TT	CC	1946934501
SNP_P4_121387_182917	NW_004515805.1	Scaffold290	182917	AA	GG	1946934503
SNP_P4_121388_186613	NW_004515805.1	Scaffold290	186613	TT	GG	1946934505
SNP_P4_121389_187562	NW_004515805.1	Scaffold290	187562	TT	CC	1946934507
SNP_P4_121390_188037	NW_004515805.1	Scaffold290	188037	CC	TT	1946934509
SNP_P4_121391_188435	NW_004515805.1	Scaffold290	188435	TT	CC	1946934511
SNP_P4_121392_190700	NW_004515805.1	Scaffold290	190700	GG	TT	1946934513
SNP_P4_121393_191092	NW_004515805.1	Scaffold290	191092	AA	CC	1946934515
SNP_P4_121394_193845	NW_004515805.1	Scaffold290	193845	CC	AA	1946934517
SNP_P4_121395_197590	NW_004515805.1	Scaffold290	197590	CC	AA	1946934519
SNP_P4_121396_200963	NW_004515805.1	Scaffold290	200963	TT	CC	1946934521
SNP_P4_121397_202591	NW_004515805.1	Scaffold290	202591	TT	CC	1946934523
SNP_P4_121399_209780	NW_004515805.1	Scaffold290	209780	GG	TT	1946934525
SNP_P4_121400_210113	NW_004515805.1	Scaffold290	210113	TT	CC	1946934527
SNP_P4_121401_210823	NW_004515805.1	Scaffold290	210823	GG	TT	1946934529
SNP_P4_121402_213020	NW_004515805.1	Scaffold290	213020	CC	GG	1946934531
SNP_P4_121403_225944	NW_004515805.1	Scaffold290	225944	CC	GG	1946934533
SNP_P4_121404_233710	NW_004515805.1	Scaffold290	233710	GG	TT	1946934534
SNP_P4_121405_236310	NW_004515805.1	Scaffold290	236310	TT	CC	1946934535
SNP_P4_121406_238638	NW_004515805.1	Scaffold290	238638	CC	GG	1946934536
SNP_P4_121407_247462	NW_004515805.1	Scaffold290	247462	TT	CC	1946934537
SNP_P4_121408_250707	NW_004515805.1	Scaffold290	250707	TT	GG	1946934538
SNP_P4_121410_250847	NW_004515805.1	Scaffold290	250847	TT	CC	1946934539
SNP_P4_121411_250893	NW_004515805.1	Scaffold290	250893	CC	TT	1946934540
SNP_P4_121412_250899	NW_004515805.1	Scaffold290	250899	GG	AA	1946934542
SNP_P4_121413_250951	NW_004515805.1	Scaffold290	250951	TT	CC	1946934544
SNP_P4_121414_251382	NW_004515805.1	Scaffold290	251382	AA	CC	1946934546
SNP_P4_121415_251390	NW_004515805.1	Scaffold290	251390	GG	AA	1946934548
SNP_P4_121416_251400	NW_004515805.1	Scaffold290	251400	GG	AA	1946934550
SNP_P4_121417_251412	NW_004515805.1	Scaffold290	251412	GG	AA	1946934552
SNP_P4_121418_251415	NW_004515805.1	Scaffold290	251415	AA	GG	1946934554
SNP_P4_121419_251517	NW_004515805.1	Scaffold290	251517	AA	GG	1946934556
SNP_P4_121420_252040	NW_004515805.1	Scaffold290	252040	AA	GG	1946934558
SNP_P4_121421_252137	NW_004515805.1	Scaffold290	252137	CC	TT	1946934560
SNP_P4_121422_252152	NW_004515805.1	Scaffold290	252152	TT	CC	1946934562
SNP_P4_121423_252509	NW_004515805.1	Scaffold290	252509	CC	TT	1946934564
SNP_P4_121424_252529	NW_004515805.1	Scaffold290	252529	CC	GG	1946934566
SNP_P4_121425_252965	NW_004515805.1	Scaffold290	252965	CC	TT	1946934568
SNP_P4_121426_252979	NW_004515805.1	Scaffold290	252979	GG	TT	1946934570
SNP_P4_121427_253005	NW_004515805.1	Scaffold290	253005	GG	AA	1946934572
SNP_P4_121429_262742	NW_004515805.1	Scaffold290	262742	GG	AA	1946934574

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_121431_288243	NW_004515805.1	Scaffold290	288243	GG	AA	1946934578
SNP_P4_121432_290970	NW_004515805.1	Scaffold290	290970	CC	AA	1946934580
SNP_P4_121433_291644	NW_004515805.1	Scaffold290	291644	GG	AA	1946934582
SNP_P4_121437_294422	NW_004515805.1	Scaffold290	294422	TT	AA	1946934584
SNP_P4_121439_298325	NW_004515805.1	Scaffold290	298325	CC	TT	1946934586
SNP_P4_121441_299496	NW_004515805.1	Scaffold290	299496	GG	AA	1946934588
SNP_P4_121442_300670	NW_004515805.1	Scaffold290	300670	AA	TT	1946934590
SNP_P4_121443_300836	NW_004515805.1	Scaffold290	300836	AA	GG	1946934592
SNP_P4_121444_302066	NW_004515805.1	Scaffold290	302066	TT	CC	1946934594
SNP_P4_121445_306392	NW_004515805.1	Scaffold290	306392	TT	GG	1946934597
SNP_P4_121446_306599	NW_004515805.1	Scaffold290	306599	GG	AA	1946934599
SNP_P4_121447_307018	NW_004515805.1	Scaffold290	307018	CC	TT	1946934601
SNP_P4_121449_309263	NW_004515805.1	Scaffold290	309263	GG	CC	1946934603
SNP_P4_121450_309270	NW_004515805.1	Scaffold290	309270	GG	AA	1946934605
SNP_P4_121451_309271	NW_004515805.1	Scaffold290	309271	TT	CC	1946934607
SNP_P4_121452_309300	NW_004515805.1	Scaffold290	309300	GG	TT	1946934609
SNP_P4_121453_312144	NW_004515805.1	Scaffold290	312144	GG	AA	1946934612
SNP_P4_121454_312357	NW_004515805.1	Scaffold290	312357	GG	AA	1946934614
SNP_P4_121455_312376	NW_004515805.1	Scaffold290	312376	CC	TT	1946934616
SNP_P4_121456_312433	NW_004515805.1	Scaffold290	312433	TT	AA	1946934618
SNP_P4_121457_312438	NW_004515805.1	Scaffold290	312438	AA	CC	1946934620
SNP_P4_121459_312638	NW_004515805.1	Scaffold290	312638	GG	AA	1946934622
SNP_P4_121460_314947	NW_004515805.1	Scaffold290	314947	AA	TT	1946934624
SNP_P4_121462_317167	NW_004515805.1	Scaffold290	317167	GG	AA	1946934626
SNP_P4_121463_336416	NW_004515805.1	Scaffold290	336416	CC	AA	1946934628
SNP_P4_121464_337017	NW_004515805.1	Scaffold290	337017	CC	TT	1946934630
SNP_P4_121465_337917	NW_004515805.1	Scaffold290	337917	GG	CC	1946934632
SNP_P4_121466_339330	NW_004515805.1	Scaffold290	339330	AA	CC	1946934634
SNP_P4_121467_339888	NW_004515805.1	Scaffold290	339888	CC	GG	1946934636
SNP_P4_121468_373020	NW_004515805.1	Scaffold290	373020	AA	GG	1946934638
SNP_P4_121469_374457	NW_004515805.1	Scaffold290	374457	CC	TT	1946934640
SNP_P4_121470_375803	NW_004515805.1	Scaffold290	375803	TT	CC	1946934642
SNP_P4_121471_381433	NW_004515805.1	Scaffold290	381433	TT	CC	1946934644
SNP_P4_121472_383354	NW_004515805.1	Scaffold290	383354	AA	GG	1946934647
SNP_P4_121473_387924	NW_004515805.1	Scaffold290	387924	AA	GG	1946934649
SNP_P4_121474_390960	NW_004515805.1	Scaffold290	390960	AA	GG	1946934651
SNP_P4_121475_391790	NW_004515805.1	Scaffold290	391790	CC	GG	1946934653
SNP_P4_121478_398570	NW_004515805.1	Scaffold290	398570	AA	GG	1946934655
SNP_P4_121480_400935	NW_004515805.1	Scaffold290	400935	AA	TT	1946934657
SNP_P4_121481_402636	NW_004515805.1	Scaffold290	402636	GG	AA	1946934659
SNP_P4_121482_402765	NW_004515805.1	Scaffold290	402765	TT	CC	1946934661

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_121484_407155	NW_004515805.1	Scaffold290	407155	CC	TT	1946934665
SNP_P4_121485_416723	NW_004515805.1	Scaffold290	416723	AA	TT	1946934667
SNP_P4_121486_416765	NW_004515805.1	Scaffold290	416765	GG	AA	1946934669
SNP_P4_121487_416800	NW_004515805.1	Scaffold290	416800	GG	AA	1946934671
SNP_P4_121488_422895	NW_004515805.1	Scaffold290	422895	TT	CC	1946934673
SNP_P4_121489_424392	NW_004515805.1	Scaffold290	424392	TT	GG	1946934675
SNP_P4_121494_452338	NW_004515805.1	Scaffold290	452338	TT	GG	1946934677
SNP_P4_121495_452971	NW_004515805.1	Scaffold290	452971	TT	CC	1946934679
SNP_P4_121496_461764	NW_004515805.1	Scaffold290	461764	CC	GG	1946934681
SNP_P4_121497_467677	NW_004515805.1	Scaffold290	467677	GG	AA	1946934683
SNP_P4_121499_475520	NW_004515805.1	Scaffold290	475520	CC	TT	1946934685
SNP_P4_121500_488931	NW_004515805.1	Scaffold290	488931	TT	AA	1946934687
SNP_P4_121501_489457	NW_004515805.1	Scaffold290	489457	TT	AA	1946934689
SNP_P4_121502_489940	NW_004515805.1	Scaffold290	489940	TT	GG	1946934691
SNP_P4_121503_490382	NW_004515805.1	Scaffold290	490382	TT	CC	1946934693
SNP_P4_121504_491243	NW_004515805.1	Scaffold290	491243	GG	TT	1946934695
SNP_P4_121505_494375	NW_004515805.1	Scaffold290	494375	CC	TT	1946934697
SNP_P4_121506_497982	NW_004515805.1	Scaffold290	497982	AA	GG	1946934699
SNP_P4_121507_497995	NW_004515805.1	Scaffold290	497995	AA	TT	1946934701
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SNP_P4_121509_498273	NW_004515805.1	Scaffold290	498273	TT	CC	1946934705
SNP_P4_121510_499430	NW_004515805.1	Scaffold290	499430	GG	TT	1946934707
SNP_P4_121511_499851	NW_004515805.1	Scaffold290	499851	GG	AA	1946934709
SNP_P4_121512_499954	NW_004515805.1	Scaffold290	499954	CC	TT	1946934711
SNP_P4_121513_500014	NW_004515805.1	Scaffold290	500014	AA	GG	1946934713
SNP_P4_121514_500017	NW_004515805.1	Scaffold290	500017	AA	GG	1946934715
SNP_P4_121515_500031	NW_004515805.1	Scaffold290	500031	CC	TT	1946934717
SNP_P4_121516_500262	NW_004515805.1	Scaffold290	500262	CC	TT	1946934719
SNP_P4_121517_500380	NW_004515805.1	Scaffold290	500380	TT	CC	1946934721
SNP_P4_121518_500382	NW_004515805.1	Scaffold290	500382	TT	CC	1946934723
SNP_P4_121519_500418	NW_004515805.1	Scaffold290	500418	GG	AA	1946934725
SNP_P4_121520_500438	NW_004515805.1	Scaffold290	500438	TT	CC	1946934727
SNP_P4_121521_502893	NW_004515805.1	Scaffold290	502893	TT	CC	1946934729
SNP_P4_121522_502894	NW_004515805.1	Scaffold290	502894	TT	GG	1946934731
SNP_P4_121523_502939	NW_004515805.1	Scaffold290	502939	TT	CC	1946934733
SNP_P4_121524_505589	NW_004515805.1	Scaffold290	505589	AA	TT	1946934735
SNP_P4_121525_506207	NW_004515805.1	Scaffold290	506207	CC	AA	1946934737
SNP_P4_121526_508202	NW_004515805.1	Scaffold290	508202	AA	TT	1946934739
SNP_P4_121527_508223	NW_004515805.1	Scaffold290	508223	TT	CC	1946934741
SNP_P4_121528_508528	NW_004515805.1	Scaffold290	508528	AA	TT	1946934743
SNP_P4_121529_508537	NW_004515805.1	Scaffold290	508537	AA	GG	1946934745

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_121531_511319	NW_004515805.1	Scaffold290	511319	TT	CC	1946934749
SNP_P4_121532_539875	NW_004515805.1	Scaffold290	539875	CC	TT	1946934751
SNP_P4_121533_544517	NW_004515805.1	Scaffold290	544517	TT	CC	1946934753
SNP_P4_121534_544533	NW_004515805.1	Scaffold290	544533	CC	AA	1946934755
SNP_P4_121535_544547	NW_004515805.1	Scaffold290	544547	CC	TT	1946934757
SNP_P4_121536_544623	NW_004515805.1	Scaffold290	544623	AA	GG	1946934759
SNP_P4_121537_544653	NW_004515805.1	Scaffold290	544653	AA	GG	1946934761
SNP_P4_121538_544723	NW_004515805.1	Scaffold290	544723	AA	GG	1946934763
SNP_P4_121539_544731	NW_004515805.1	Scaffold290	544731	GG	AA	1946934765
SNP_P4_121540_544850	NW_004515805.1	Scaffold290	544850	CC	TT	1946934767
SNP_P4_121541_544858	NW_004515805.1	Scaffold290	544858	GG	AA	1946934769
SNP_P4_121542_544873	NW_004515805.1	Scaffold290	544873	TT	GG	1946934771
SNP_P4_121543_544878	NW_004515805.1	Scaffold290	544878	GG	AA	1946934773
SNP_P4_121544_544895	NW_004515805.1	Scaffold290	544895	AA	GG	1946934776
SNP_P4_121545_552789	NW_004515805.1	Scaffold290	552789	GG	AA	1946934778
SNP_P4_121546_554073	NW_004515805.1	Scaffold290	554073	TT	AA	1946934780
SNP_P4_121547_555121	NW_004515805.1	Scaffold290	555121	TT	CC	1946934782
SNP_P4_121548_555851	NW_004515805.1	Scaffold290	555851	GG	AA	1946934784
SNP_P4_121549_557805	NW_004515805.1	Scaffold290	557805	CC	TT	1946934786
SNP_P4_121550_561049	NW_004515805.1	Scaffold290	561049	GG	AA	1946934788
SNP_P4_121551_561135	NW_004515805.1	Scaffold290	561135	CC	TT	1946934790
SNP_P4_121552_561500	NW_004515805.1	Scaffold290	561500	TT	CC	1946934792
SNP_P4_121553_561511	NW_004515805.1	Scaffold290	561511	GG	TT	1946934794
SNP_P4_121554_561594	NW_004515805.1	Scaffold290	561594	GG	AA	1946934796
SNP_P4_121555_561837	NW_004515805.1	Scaffold290	561837	TT	AA	1946934798
SNP_P4_121556_561843	NW_004515805.1	Scaffold290	561843	GG	AA	1946934800
SNP_P4_121557_562004	NW_004515805.1	Scaffold290	562004	CC	TT	1946934802
SNP_P4_121558_564207	NW_004515805.1	Scaffold290	564207	CC	AA	1946934804
SNP_P4_121559_571609	NW_004515805.1	Scaffold290	571609	GG	AA	1946934806
SNP_P4_121560_571682	NW_004515805.1	Scaffold290	571682	CC	AA	1946934809
SNP_P4_121561_571699	NW_004515805.1	Scaffold290	571699	AA	GG	1946934811
SNP_P4_121562_571709	NW_004515805.1	Scaffold290	571709	AA	GG	1946934813
SNP_P4_121563_571717	NW_004515805.1	Scaffold290	571717	TT	CC	1946934815
SNP_P4_121564_571963	NW_004515805.1	Scaffold290	571963	TT	CC	1946934817
SNP_P4_121565_572089	NW_004515805.1	Scaffold290	572089	CC	TT	1946934819
SNP_P4_121566_572090	NW_004515805.1	Scaffold290	572090	AA	CC	1946934821
SNP_P4_121568_572100	NW_004515805.1	Scaffold290	572100	TT	CC	1946934823
SNP_P4_121569_572229	NW_004515805.1	Scaffold290	572229	GG	AA	1946934825
SNP_P4_121570_572231	NW_004515805.1	Scaffold290	572231	TT	CC	1946934827
SNP_P4_121571_572249	NW_004515805.1	Scaffold290	572249	AA	GG	1946934829
SNP_P4_121572_572275	NW_004515805.1	Scaffold290	572275	AA	TT	1946934831

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_121574_573433	NW_004515805.1	Scaffold290	573433	TT	CC	1946934835
SNP_P4_121575_575364	NW_004515805.1	Scaffold290	575364	GG	CC	1946934837
SNP_P4_121576_585822	NW_004515805.1	Scaffold290	585822	AA	CC	1946934839
SNP_P4_121577_586300	NW_004515805.1	Scaffold290	586300	CC	TT	1946934841
SNP_P4_121578_586301	NW_004515805.1	Scaffold290	586301	TT	AA	1946934843
SNP_P4_121579_603199	NW_004515805.1	Scaffold290	603199	TT	CC	1946934845
SNP_P4_121582_605010	NW_004515805.1	Scaffold290	605010	CC	TT	1946934847
SNP_P4_121583_609603	NW_004515805.1	Scaffold290	609603	CC	TT	1946934849
SNP_P4_121584_615997	NW_004515805.1	Scaffold290	615997	TT	GG	1946934851
SNP_P4_121585_617460	NW_004515805.1	Scaffold290	617460	AA	CC	1946934853
SNP_P4_121586_618416	NW_004515805.1	Scaffold290	618416	CC	TT	1946934855
SNP_P4_121587_618462	NW_004515805.1	Scaffold290	618462	CC	GG	1946934857
SNP_P4_121588_629085	NW_004515805.1	Scaffold290	629085	GG	TT	1946934859
SNP_P4_121589_633735	NW_004515805.1	Scaffold290	633735	CC	GG	1946934861
SNP_P4_121590_637001	NW_004515805.1	Scaffold290	637001	CC	AA	1946934863
SNP_P4_121591_639631	NW_004515805.1	Scaffold290	639631	AA	GG	1946934865
SNP_P4_121592_640007	NW_004515805.1	Scaffold290	640007	CC	TT	1946934867
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SNP_P4_121596_642746	NW_004515805.1	Scaffold290	642746	CC	TT	1946934875
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SNP_P4_121598_648023	NW_004515805.1	Scaffold290	648023	AA	GG	1946934879
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SNP_P4_121600_654493	NW_004515805.1	Scaffold290	654493	AA	GG	1946934883
SNP_P4_121601_655546	NW_004515805.1	Scaffold290	655546	AA	CC	1946934885
SNP_P4_121602_660228	NW_004515805.1	Scaffold290	660228	AA	GG	1946934887
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SNP_P4_121606_670900	NW_004515805.1	Scaffold290	670900	AA	GG	1946934893
SNP_P4_121607_671273	NW_004515805.1	Scaffold290	671273	TT	GG	1946934895
SNP_P4_121608_673427	NW_004515805.1	Scaffold290	673427	CC	TT	1946934897
SNP_P4_121610_676871	NW_004515805.1	Scaffold290	676871	GG	CC	1946934899
SNP_P4_121611_680125	NW_004515805.1	Scaffold290	680125	GG	AA	1946934901
SNP_P4_121612_680335	NW_004515805.1	Scaffold290	680335	AA	GG	1946934903
SNP_P4_121613_680540	NW_004515805.1	Scaffold290	680540	CC	TT	1946934905
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SNP_P4_121615_698995	NW_004515805.1	Scaffold290	698995	GG	TT	1946934909
SNP_P4_121617_701292	NW_004515805.1	Scaffold290	701292	GG	AA	1946934911
SNP_P4_121618_702131	NW_004515805.1	Scaffold290	702131	GG	CC	1946934913
SNP_P4_121620_709724	NW_004515805.1	Scaffold290	709724	CC	GG	1946934915

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_121622_710148	NW_004515805.1	Scaffold290	710148	CC	AA	1946934919
SNP_P4_121623_710159	NW_004515805.1	Scaffold290	710159	GG	AA	1946934921
SNP_P4_121624_716017	NW_004515805.1	Scaffold290	716017	GG	AA	1946934923
SNP_P4_121626_728593	NW_004515805.1	Scaffold290	728593	GG	TT	1946934925
SNP_P4_121627_729098	NW_004515805.1	Scaffold290	729098	AA	TT	1946934927
SNP_P4_121628_729372	NW_004515805.1	Scaffold290	729372	TT	CC	1946934929
SNP_P4_121629_731850	NW_004515805.1	Scaffold290	731850	TT	AA	1946934931
SNP_P4_121630_731940	NW_004515805.1	Scaffold290	731940	AA	GG	1946934933
SNP_P4_121631_738870	NW_004515805.1	Scaffold290	738870	CC	TT	1946934935
SNP_P4_121632_740667	NW_004515805.1	Scaffold290	740667	TT	CC	1946934937
SNP_P4_121633_744635	NW_004515805.1	Scaffold290	744635	AA	GG	1946934939
SNP_P4_121634_744858	NW_004515805.1	Scaffold290	744858	AA	GG	1946934941
SNP_P4_121635_745535	NW_004515805.1	Scaffold290	745535	CC	TT	1946934943
SNP_P4_121636_745934	NW_004515805.1	Scaffold290	745934	CC	TT	1946934945
SNP_P4_121637_750069	NW_004515805.1	Scaffold290	750069	GG	AA	1946934947
SNP_P4_121638_752973	NW_004515805.1	Scaffold290	752973	CC	TT	1946934949
SNP_P4_121639_753260	NW_004515805.1	Scaffold290	753260	CC	TT	1946934951
SNP_P4_121640_757675	NW_004515805.1	Scaffold290	757675	CC	TT	1946934953
SNP_P4_121641_760414	NW_004515805.1	Scaffold290	760414	AA	CC	1946934955
SNP_P4_121642_764095	NW_004515805.1	Scaffold290	764095	CC	AA	1946934957
SNP_P4_121643_766767	NW_004515805.1	Scaffold290	766767	GG	AA	1946934959
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SNP_P4_121645_778414	NW_004515805.1	Scaffold290	778414	TT	AA	1946934963
SNP_P4_121646_797379	NW_004515805.1	Scaffold290	797379	TT	GG	1946934965
SNP_P4_121647_797388	NW_004515805.1	Scaffold290	797388	TT	CC	1946934967
SNP_P4_121648_797391	NW_004515805.1	Scaffold290	797391	CC	TT	1946934969
SNP_P4_121649_797422	NW_004515805.1	Scaffold290	797422	GG	CC	1946934971
SNP_P4_121650_797425	NW_004515805.1	Scaffold290	797425	AA	TT	1946934973
SNP_P4_121651_797438	NW_004515805.1	Scaffold290	797438	AA	GG	1946934975
SNP_P4_121652_797450	NW_004515805.1	Scaffold290	797450	TT	CC	1946934977
SNP_P4_121653_797569	NW_004515805.1	Scaffold290	797569	GG	AA	1946934979
SNP_P4_121654_797715	NW_004515805.1	Scaffold290	797715	GG	AA	1946934981
SNP_P4_121655_798289	NW_004515805.1	Scaffold290	798289	CC	TT	1946934983
SNP_P4_121656_809912	NW_004515805.1	Scaffold290	809912	TT	AA	1946934985
SNP_P4_121657_813710	NW_004515805.1	Scaffold290	813710	TT	CC	1946934987
SNP_P4_121658_813716	NW_004515805.1	Scaffold290	813716	CC	TT	1946934989
SNP_P4_121659_813722	NW_004515805.1	Scaffold290	813722	TT	CC	1946934991
SNP_P4_121660_813749	NW_004515805.1	Scaffold290	813749	AA	GG	1946934993
SNP_P4_121661_813788	NW_004515805.1	Scaffold290	813788	TT	GG	1946934995
SNP_P4_121662_815082	NW_004515805.1	Scaffold290	815082	TT	CC	1946934997
SNP_P4_121663_816219	NW_004515805.1	Scaffold290	816219	AA	CC	1946934999

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_121665_817702	NW_004515805.1	Scaffold290	817702	TT	GG	1946935003
SNP_P4_121666_818291	NW_004515805.1	Scaffold290	818291	AA	CC	1946935005
SNP_P4_121667_818356	NW_004515805.1	Scaffold290	818356	GG	TT	1946935007
SNP_P4_121668_818508	NW_004515805.1	Scaffold290	818508	TT	AA	1946935009
SNP_P4_121670_822386	NW_004515805.1	Scaffold290	822386	GG	AA	1946935011
SNP_P4_121671_823551	NW_004515805.1	Scaffold290	823551	TT	GG	1946935013
SNP_P4_121672_823863	NW_004515805.1	Scaffold290	823863	TT	CC	1946935015
SNP_P4_121673_825515	NW_004515805.1	Scaffold290	825515	AA	TT	1946935017
SNP_P4_121674_825899	NW_004515805.1	Scaffold290	825899	CC	TT	1946935019
SNP_P4_121675_829363	NW_004515805.1	Scaffold290	829363	TT	GG	1946935021
SNP_P4_121676_832442	NW_004515805.1	Scaffold290	832442	GG	CC	1946935023
SNP_P4_121677_833211	NW_004515805.1	Scaffold290	833211	AA	GG	1946935025
SNP_P4_121678_838281	NW_004515805.1	Scaffold290	838281	CC	AA	1946935027
SNP_P4_121679_844964	NW_004515805.1	Scaffold290	844964	AA	GG	1946935029
SNP_P4_121680_844974	NW_004515805.1	Scaffold290	844974	TT	CC	1946935031
SNP_P4_121681_844984	NW_004515805.1	Scaffold290	844984	AA	GG	1946935033
SNP_P4_121682_848944	NW_004515805.1	Scaffold290	848944	GG	TT	1946935035
SNP_P4_121683_848951	NW_004515805.1	Scaffold290	848951	TT	AA	1946935037
SNP_P4_121685_848988	NW_004515805.1	Scaffold290	848988	TT	GG	1946935039
SNP_P4_121687_859879	NW_004515805.1	Scaffold290	859879	GG	AA	1946935041
SNP_P4_121690_861861	NW_004515805.1	Scaffold290	861861	AA	GG	1946935043
SNP_P4_121691_862717	NW_004515805.1	Scaffold290	862717	CC	TT	1946935045
SNP_P4_121693_874452	NW_004515805.1	Scaffold290	874452	AA	GG	1946935047
SNP_P4_121694_874460	NW_004515805.1	Scaffold290	874460	AA	GG	1946935049
SNP_P4_121695_874817	NW_004515805.1	Scaffold290	874817	TT	CC	1946935051
SNP_P4_121696_877134	NW_004515805.1	Scaffold290	877134	CC	TT	1946935053
SNP_P4_121697_877348	NW_004515805.1	Scaffold290	877348	GG	TT	1946935055
SNP_P4_121698_879542	NW_004515805.1	Scaffold290	879542	AA	CC	1946935057
SNP_P4_121699_887543	NW_004515805.1	Scaffold290	887543	CC	TT	1946935059
SNP_P4_121702_893452	NW_004515805.1	Scaffold290	893452	AA	GG	1946935061
SNP_P4_121703_895532	NW_004515805.1	Scaffold290	895532	AA	GG	1946935063
SNP_P4_121704_899619	NW_004515805.1	Scaffold290	899619	CC	TT	1946935065
SNP_P4_121705_899779	NW_004515805.1	Scaffold290	899779	AA	GG	1946935067
SNP_P4_121706_905693	NW_004515805.1	Scaffold290	905693	CC	AA	1946935069
SNP_P4_121707_907159	NW_004515805.1	Scaffold290	907159	TT	CC	1946935071
SNP_P4_121708_910032	NW_004515805.1	Scaffold290	910032	GG	AA	1946935073
SNP_P4_121709_1773	NW_004515806.1	Scaffold292	1773	TT	AA	1946935075
SNP_P4_121710_1796	NW_004515806.1	Scaffold292	1796	AA	GG	1946935077
SNP_P4_121711_1807	NW_004515806.1	Scaffold292	1807	GG	AA	1946935079
SNP_P4_121712_2156	NW_004515806.1	Scaffold292	2156	GG	CC	1946935081
SNP_P4_121713_5219	NW_004515806.1	Scaffold292	5219	AA	GG	1946935083

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_121715_5290	NW_004515806.1	Scaffold292	5290	AA	CC	1946935087
SNP_P4_121716_5295	NW_004515806.1	Scaffold292	5295	AA	TT	1946935089
SNP_P4_121717_5316	NW_004515806.1	Scaffold292	5316	TT	AA	1946935091
SNP_P4_121718_5362	NW_004515806.1	Scaffold292	5362	AA	CC	1946935093
SNP_P4_121719_5498	NW_004515806.1	Scaffold292	5498	AA	CC	1946935095
SNP_P4_121720_6060	NW_004515807.1	Scaffold293	6060	AA	GG	1946935096
SNP_P4_121721_6455	NW_004515807.1	Scaffold293	6455	CC	TT	1946935098
SNP_P4_121722_9329	NW_004515807.1	Scaffold293	9329	TT	CC	1946935100
SNP_P4_121723_11176	NW_004515807.1	Scaffold293	11176	AA	GG	1946935102
SNP_P4_121724_11518	NW_004515807.1	Scaffold293	11518	TT	AA	1946935104
SNP_P4_121725_12853	NW_004515807.1	Scaffold293	12853	CC	TT	1946935106
SNP_P4_121726_12938	NW_004515807.1	Scaffold293	12938	CC	TT	1946935108
SNP_P4_121727_12976	NW_004515807.1	Scaffold293	12976	GG	AA	1946935110
SNP_P4_121728_12983	NW_004515807.1	Scaffold293	12983	TT	AA	1946935112
SNP_P4_121729_12997	NW_004515807.1	Scaffold293	12997	TT	CC	1946935114
SNP_P4_121730_13006	NW_004515807.1	Scaffold293	13006	TT	CC	1946935116
SNP_P4_121731_13007	NW_004515807.1	Scaffold293	13007	CC	TT	1946935118
SNP_P4_121732_13030	NW_004515807.1	Scaffold293	13030	CC	TT	1946935120
SNP_P4_121733_19977	NW_004515807.1	Scaffold293	19977	AA	CC	1946935122
SNP_P4_121735_23542	NW_004515807.1	Scaffold293	23542	AA	TT	1946935124
SNP_P4_121736_23830	NW_004515807.1	Scaffold293	23830	GG	AA	1946935126
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SNP_P4_121739_30395	NW_004515807.1	Scaffold293	30395	AA	GG	1946935130
SNP_P4_121740_30400	NW_004515807.1	Scaffold293	30400	CC	AA	1946935132
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SNP_P4_121742_30431	NW_004515807.1	Scaffold293	30431	CC	TT	1946935136
SNP_P4_121744_30457	NW_004515807.1	Scaffold293	30457	TT	CC	1946935138
SNP_P4_121745_30467	NW_004515807.1	Scaffold293	30467	TT	CC	1946935140
SNP_P4_121746_30632	NW_004515807.1	Scaffold293	30632	TT	CC	1946935142
SNP_P4_121747_33655	NW_004515807.1	Scaffold293	33655	GG	AA	1946935144
SNP_P4_121748_33685	NW_004515807.1	Scaffold293	33685	AA	GG	1946935146
SNP_P4_121749_35422	NW_004515807.1	Scaffold293	35422	TT	AA	1946935148
SNP_P4_121750_35528	NW_004515807.1	Scaffold293	35528	AA	GG	1946935150
SNP_P4_121751_45782	NW_004515807.1	Scaffold293	45782	TT	AA	1946935152
SNP_P4_121752_55364	NW_004515807.1	Scaffold293	55364	TT	AA	1946935154
SNP_P4_121753_239	NW_004515808.1	Scaffold295	239	AA	GG	1946935156
SNP_P4_121754_245	NW_004515808.1	Scaffold295	245	CC	AA	1946935158
SNP_P4_121755_281	NW_004515808.1	Scaffold295	281	TT	GG	1946935160
SNP_P4_121756_317	NW_004515808.1	Scaffold295	317	GG	TT	1946935162
SNP_P4_121757_363	NW_004515808.1	Scaffold295	363	TT	GG	1946935164
SNP_P4_121758_368	NW_004515808.1	Scaffold295	368	TT	AA	1946935166

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_121760_617	NW_004515808.1	Scaffold295	617	TT	AA	1946935170
SNP_P4_121761_644	NW_004515808.1	Scaffold295	644	AA	GG	1946935172
SNP_P4_121762_703	NW_004515808.1	Scaffold295	703	TT	CC	1946935174
SNP_P4_121763_723	NW_004515808.1	Scaffold295	723	TT	CC	1946935176
SNP_P4_121764_763	NW_004515808.1	Scaffold295	763	TT	CC	1946935178
SNP_P4_121765_833	NW_004515808.1	Scaffold295	833	TT	CC	1946935180
SNP_P4_121766_844	NW_004515808.1	Scaffold295	844	GG	CC	1946935182
SNP_P4_121767_8310	NW_004515808.1	Scaffold295	8310	GG	TT	1946935184
SNP_P4_121768_22935	NW_004515808.1	Scaffold295	22935	CC	TT	1946935186
SNP_P4_121769_418	NW_004515809.1	Scaffold296	418	AA	GG	1946935188
SNP_P4_121770_10205	NW_004515809.1	Scaffold296	10205	GG	CC	1946935190
SNP_P4_121771_10230	NW_004515809.1	Scaffold296	10230	CC	TT	1946935192
SNP_P4_121772_10349	NW_004515809.1	Scaffold296	10349	GG	AA	1946935194
SNP_P4_121773_10401	NW_004515809.1	Scaffold296	10401	TT	CC	1946935196
SNP_P4_121774_10422	NW_004515809.1	Scaffold296	10422	CC	AA	1946935198
SNP_P4_121775_10458	NW_004515809.1	Scaffold296	10458	GG	TT	1946935200
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SNP_P4_121777_10630	NW_004515809.1	Scaffold296	10630	GG	TT	1946935204
SNP_P4_121778_10685	NW_004515809.1	Scaffold296	10685	CC	TT	1946935206
SNP_P4_121780_11152	NW_004515809.1	Scaffold296	11152	GG	TT	1946935208
SNP_P4_121781_11193	NW_004515809.1	Scaffold296	11193	GG	AA	1946935210
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SNP_P4_121784_11829	NW_004515809.1	Scaffold296	11829	CC	TT	1946935214
SNP_P4_121785_14275	NW_004515809.1	Scaffold296	14275	TT	AA	1946935216
SNP_P4_121786_14473	NW_004515809.1	Scaffold296	14473	CC	TT	1946935218
SNP_P4_121787_14693	NW_004515809.1	Scaffold296	14693	CC	TT	1946935220
SNP_P4_121788_14800	NW_004515809.1	Scaffold296	14800	GG	AA	1946935222
SNP_P4_121789_14809	NW_004515809.1	Scaffold296	14809	CC	AA	1946935224
SNP_P4_121790_14960	NW_004515809.1	Scaffold296	14960	GG	AA	1946935226
SNP_P4_121791_15029	NW_004515809.1	Scaffold296	15029	TT	CC	1946935228
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SNP_P4_121794_15250	NW_004515809.1	Scaffold296	15250	AA	CC	1946935234
SNP_P4_121795_15253	NW_004515809.1	Scaffold296	15253	CC	TT	1946935236
SNP_P4_121796_15320	NW_004515809.1	Scaffold296	15320	CC	TT	1946935238
SNP_P4_121797_15377	NW_004515809.1	Scaffold296	15377	TT	CC	1946935240
SNP_P4_121799_15419	NW_004515809.1	Scaffold296	15419	AA	TT	1946935242
SNP_P4_121800_15424	NW_004515809.1	Scaffold296	15424	GG	AA	1946935244
SNP_P4_121801_15458	NW_004515809.1	Scaffold296	15458	GG	AA	1946935246
SNP_P4_121802_15460	NW_004515809.1	Scaffold296	15460	CC	TT	1946935248
SNP_P4_121803_15486	NW_004515809.1	Scaffold296	15486	GG	AA	1946935250

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_121805_15519	NW_004515809.1	Scaffold296	15519	AA	GG	1946935254
SNP_P4_121806_15523	NW_004515809.1	Scaffold296	15523	TT	AA	1946935256
SNP_P4_121807_15540	NW_004515809.1	Scaffold296	15540	CC	AA	1946935258
SNP_P4_121808_15572	NW_004515809.1	Scaffold296	15572	GG	AA	1946935260
SNP_P4_121809_15596	NW_004515809.1	Scaffold296	15596	CC	TT	1946935262
SNP_P4_121810_15625	NW_004515809.1	Scaffold296	15625	TT	CC	1946935264
SNP_P4_121811_15641	NW_004515809.1	Scaffold296	15641	AA	CC	1946935266
SNP_P4_121812_15645	NW_004515809.1	Scaffold296	15645	CC	AA	1946935268
SNP_P4_121813_15744	NW_004515809.1	Scaffold296	15744	TT	GG	1946935270
SNP_P4_121814_15769	NW_004515809.1	Scaffold296	15769	AA	GG	1946935272
SNP_P4_121815_15770	NW_004515809.1	Scaffold296	15770	GG	AA	1946935274
SNP_P4_121816_15787	NW_004515809.1	Scaffold296	15787	CC	GG	1946935276
SNP_P4_121817_15789	NW_004515809.1	Scaffold296	15789	GG	AA	1946935278
SNP_P4_121818_15791	NW_004515809.1	Scaffold296	15791	AA	CC	1946935280
SNP_P4_121819_15802	NW_004515809.1	Scaffold296	15802	CC	TT	1946935282
SNP_P4_121820_15823	NW_004515809.1	Scaffold296	15823	TT	GG	1946935284
SNP_P4_121821_15835	NW_004515809.1	Scaffold296	15835	GG	AA	1946935286
SNP_P4_121822_15861	NW_004515809.1	Scaffold296	15861	TT	GG	1946935288
SNP_P4_121823_15872	NW_004515809.1	Scaffold296	15872	GG	AA	1946935290
SNP_P4_121824_15882	NW_004515809.1	Scaffold296	15882	CC	AA	1946935292
SNP_P4_121825_15928	NW_004515809.1	Scaffold296	15928	AA	CC	1946935294
SNP_P4_121826_15992	NW_004515809.1	Scaffold296	15992	CC	AA	1946935296
SNP_P4_121827_16152	NW_004515809.1	Scaffold296	16152	AA	CC	1946935298
SNP_P4_121828_16313	NW_004515809.1	Scaffold296	16313	GG	CC	1946935300
SNP_P4_121829_16328	NW_004515809.1	Scaffold296	16328	CC	AA	1946935302
SNP_P4_121830_16336	NW_004515809.1	Scaffold296	16336	CC	TT	1946935304
SNP_P4_121831_16351	NW_004515809.1	Scaffold296	16351	CC	TT	1946935306
SNP_P4_121832_16354	NW_004515809.1	Scaffold296	16354	AA	GG	1946935308
SNP_P4_121833_16380	NW_004515809.1	Scaffold296	16380	TT	GG	1946935310
SNP_P4_121834_16409	NW_004515809.1	Scaffold296	16409	TT	CC	1946935312
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SNP_P4_121837_16472	NW_004515809.1	Scaffold296	16472	TT	GG	1946935318
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SNP_P4_121839_16503	NW_004515809.1	Scaffold296	16503	TT	AA	1946935322
SNP_P4_121840_16564	NW_004515809.1	Scaffold296	16564	AA	GG	1946935324
SNP_P4_121841_16589	NW_004515809.1	Scaffold296	16589	CC	TT	1946935326
SNP_P4_121842_16594	NW_004515809.1	Scaffold296	16594	AA	GG	1946935328
SNP_P4_121843_16637	NW_004515809.1	Scaffold296	16637	CC	TT	1946935330
SNP_P4_121844_16646	NW_004515809.1	Scaffold296	16646	AA	GG	1946935332
SNP_P4_121845_16693	NW_004515809.1	Scaffold296	16693	CC	TT	1946935334

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_121847_16712	NW_004515809.1	Scaffold296	16712	GG	AA	1946935338
SNP_P4_121848_16730	NW_004515809.1	Scaffold296	16730	GG	TT	1946935340
SNP_P4_121849_16747	NW_004515809.1	Scaffold296	16747	AA	CC	1946935342
SNP_P4_121850_16798	NW_004515809.1	Scaffold296	16798	TT	CC	1946935344
SNP_P4_121851_16813	NW_004515809.1	Scaffold296	16813	CC	TT	1946935346
SNP_P4_121852_16856	NW_004515809.1	Scaffold296	16856	GG	AA	1946935348
SNP_P4_121853_16867	NW_004515809.1	Scaffold296	16867	AA	TT	1946935351
SNP_P4_121854_16874	NW_004515809.1	Scaffold296	16874	TT	CC	1946935353
SNP_P4_121856_16944	NW_004515809.1	Scaffold296	16944	GG	TT	1946935355
SNP_P4_121858_74167	NW_004515809.1	Scaffold296	74167	TT	AA	1946935357
SNP_P4_121859_78611	NW_004515809.1	Scaffold296	78611	CC	TT	1946935359
SNP_P4_121860_78724	NW_004515809.1	Scaffold296	78724	GG	AA	1946935361
SNP_P4_121861_78771	NW_004515809.1	Scaffold296	78771	AA	GG	1946935363
SNP_P4_121862_78783	NW_004515809.1	Scaffold296	78783	GG	TT	1946935365
SNP_P4_121863_78799	NW_004515809.1	Scaffold296	78799	AA	GG	1946935367
SNP_P4_121864_78816	NW_004515809.1	Scaffold296	78816	GG	AA	1946935369
SNP_P4_121865_79092	NW_004515809.1	Scaffold296	79092	TT	GG	1946935371
SNP_P4_121866_83387	NW_004515809.1	Scaffold296	83387	TT	CC	1946935373
SNP_P4_121867_105156	NW_004515809.1	Scaffold296	105156	TT	GG	1946935375
SNP_P4_121868_105368	NW_004515809.1	Scaffold296	105368	CC	GG	1946935377
SNP_P4_121869_105420	NW_004515809.1	Scaffold296	105420	CC	TT	1946935379
SNP_P4_121870_108335	NW_004515809.1	Scaffold296	108335	GG	AA	1946935381
SNP_P4_121871_112192	NW_004515809.1	Scaffold296	112192	TT	AA	1946935383
SNP_P4_121872_140242	NW_004515809.1	Scaffold296	140242	AA	CC	1946935385
SNP_P4_121874_170943	NW_004515809.1	Scaffold296	170943	CC	TT	1946935387
SNP_P4_121875_224696	NW_004515809.1	Scaffold296	224696	CC	TT	1946935389
SNP_P4_121876_225117	NW_004515809.1	Scaffold296	225117	CC	AA	1946935391
SNP_P4_121877_225127	NW_004515809.1	Scaffold296	225127	GG	AA	1946935393
SNP_P4_121878_225140	NW_004515809.1	Scaffold296	225140	TT	AA	1946935395
SNP_P4_121879_225151	NW_004515809.1	Scaffold296	225151	GG	CC	1946935397
SNP_P4_121880_225152	NW_004515809.1	Scaffold296	225152	AA	GG	1946935399
SNP_P4_121881_231465	NW_004515809.1	Scaffold296	231465	CC	GG	1946935401
SNP_P4_121882_231471	NW_004515809.1	Scaffold296	231471	CC	AA	1946935403
SNP_P4_121885_253853	NW_004515809.1	Scaffold296	253853	TT	AA	1946935405
SNP_P4_121886_258552	NW_004515809.1	Scaffold296	258552	TT	CC	1946935407
SNP_P4_121887_258844	NW_004515809.1	Scaffold296	258844	CC	TT	1946935409
SNP_P4_121888_258898	NW_004515809.1	Scaffold296	258898	AA	TT	1946935411
SNP_P4_121889_258950	NW_004515809.1	Scaffold296	258950	AA	GG	1946935413
SNP_P4_121890_259037	NW_004515809.1	Scaffold296	259037	GG	AA	1946935415
SNP_P4_121891_259058	NW_004515809.1	Scaffold296	259058	TT	GG	1946935417
SNP_P4_121892_259141	NW_004515809.1	Scaffold296	259141	TT	AA	1946935419

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_121895_259230	NW_004515809.1	Scaffold296	259230	AA	TT	1946935425
SNP_P4_121896_259246	NW_004515809.1	Scaffold296	259246	TT	CC	1946935427
SNP_P4_121897_259341	NW_004515809.1	Scaffold296	259341	GG	AA	1946935429
SNP_P4_121898_260822	NW_004515809.1	Scaffold296	260822	TT	AA	1946935431
SNP_P4_121899_260846	NW_004515809.1	Scaffold296	260846	TT	CC	1946935433
SNP_P4_121900_260876	NW_004515809.1	Scaffold296	260876	TT	CC	1946935435
SNP_P4_121901_260896	NW_004515809.1	Scaffold296	260896	TT	AA	1946935437
SNP_P4_121903_261137	NW_004515809.1	Scaffold296	261137	GG	AA	1946935439
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SNP_P4_121905_261194	NW_004515809.1	Scaffold296	261194	AA	GG	1946935443
SNP_P4_121906_261203	NW_004515809.1	Scaffold296	261203	TT	GG	1946935445
SNP_P4_121907_261214	NW_004515809.1	Scaffold296	261214	GG	TT	1946935447
SNP_P4_121908_261254	NW_004515809.1	Scaffold296	261254	AA	GG	1946935449
SNP_P4_121909_261259	NW_004515809.1	Scaffold296	261259	TT	CC	1946935451
SNP_P4_121910_261290	NW_004515809.1	Scaffold296	261290	TT	CC	1946935453
SNP_P4_121911_261332	NW_004515809.1	Scaffold296	261332	GG	AA	1946935455
SNP_P4_121912_261347	NW_004515809.1	Scaffold296	261347	AA	GG	1946935457
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SNP_P4_121915_261535	NW_004515809.1	Scaffold296	261535	TT	AA	1946935461
SNP_P4_121916_261545	NW_004515809.1	Scaffold296	261545	AA	TT	1946935463
SNP_P4_121917_261546	NW_004515809.1	Scaffold296	261546	AA	GG	1946935465
SNP_P4_121918_261564	NW_004515809.1	Scaffold296	261564	TT	CC	1946935467
SNP_P4_121920_261722	NW_004515809.1	Scaffold296	261722	CC	TT	1946935469
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SNP_P4_121922_261790	NW_004515809.1	Scaffold296	261790	CC	AA	1946935473
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SNP_P4_121926_262250	NW_004515809.1	Scaffold296	262250	TT	AA	1946935480
SNP_P4_121927_262636	NW_004515809.1	Scaffold296	262636	AA	TT	1946935482
SNP_P4_121928_262730	NW_004515809.1	Scaffold296	262730	CC	GG	1946935484
SNP_P4_121929_262755	NW_004515809.1	Scaffold296	262755	GG	AA	1946935486
SNP_P4_121930_262803	NW_004515809.1	Scaffold296	262803	AA	GG	1946935488
SNP_P4_121932_262852	NW_004515809.1	Scaffold296	262852	AA	GG	1946935490
SNP_P4_121933_262876	NW_004515809.1	Scaffold296	262876	CC	TT	1946935492
SNP_P4_121934_263144	NW_004515809.1	Scaffold296	263144	GG	CC	1946935495
SNP_P4_121935_264864	NW_004515809.1	Scaffold296	264864	AA	TT	1946935497
SNP_P4_121936_264867	NW_004515809.1	Scaffold296	264867	AA	CC	1946935499
SNP_P4_121937_264971	NW_004515809.1	Scaffold296	264971	TT	CC	1946935501
SNP_P4_121938_265058	NW_004515809.1	Scaffold296	265058	GG	CC	1946935503
SNP_P4_121939_265145	NW_004515809.1	Scaffold296	265145	TT	AA	1946935505

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_121941_265208	NW_004515809.1	Scaffold296	265208	GG	CC	1946935509
SNP_P4_121942_265378	NW_004515809.1	Scaffold296	265378	TT	CC	1946935511
SNP_P4_121943_265435	NW_004515809.1	Scaffold296	265435	GG	TT	1946935513
SNP_P4_121944_265457	NW_004515809.1	Scaffold296	265457	TT	CC	1946935515
SNP_P4_121945_265458	NW_004515809.1	Scaffold296	265458	TT	CC	1946935517
SNP_P4_121946_265518	NW_004515809.1	Scaffold296	265518	GG	CC	1946935519
SNP_P4_121947_265530	NW_004515809.1	Scaffold296	265530	AA	GG	1946935521
SNP_P4_121948_265584	NW_004515809.1	Scaffold296	265584	TT	CC	1946935523
SNP_P4_121949_266216	NW_004515809.1	Scaffold296	266216	AA	TT	1946935525
SNP_P4_121950_267850	NW_004515809.1	Scaffold296	267850	GG	AA	1946935527
SNP_P4_121951_282975	NW_004515809.1	Scaffold296	282975	TT	CC	1946935529
SNP_P4_121953_316080	NW_004515809.1	Scaffold296	316080	TT	CC	1946935531
SNP_P4_121954_322543	NW_004515809.1	Scaffold296	322543	AA	CC	1946935533
SNP_P4_121956_340160	NW_004515809.1	Scaffold296	340160	AA	GG	1946935535
SNP_P4_121959_386861	NW_004515809.1	Scaffold296	386861	TT	AA	1946935537
SNP_P4_121961_391653	NW_004515809.1	Scaffold296	391653	AA	GG	1946935539
SNP_P4_121962_404621	NW_004515809.1	Scaffold296	404621	CC	TT	1946935541
SNP_P4_121964_406920	NW_004515809.1	Scaffold296	406920	CC	GG	1946935543
SNP_P4_121966_427492	NW_004515809.1	Scaffold296	427492	TT	CC	1946935545
SNP_P4_121967_427531	NW_004515809.1	Scaffold296	427531	TT	CC	1946935547
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SNP_P4_121972_439751	NW_004515809.1	Scaffold296	439751	AA	CC	1946935557
SNP_P4_121974_450452	NW_004515809.1	Scaffold296	450452	TT	CC	1946935559
SNP_P4_121975_450460	NW_004515809.1	Scaffold296	450460	TT	CC	1946935561
SNP_P4_121978_486012	NW_004515809.1	Scaffold296	486012	CC	TT	1946935563
SNP_P4_121979_486013	NW_004515809.1	Scaffold296	486013	TT	GG	1946935565
SNP_P4_121980_648	NW_004515810.1	Scaffold298	648	AA	CC	1946935567
SNP_P4_121981_1347	NW_004515810.1	Scaffold298	1347	TT	GG	1946935569
SNP_P4_121982_1493	NW_004515810.1	Scaffold298	1493	AA	TT	1946935571
SNP_P4_121983_1575	NW_004515810.1	Scaffold298	1575	AA	GG	1946935573
SNP_P4_121984_2106	NW_004515810.1	Scaffold298	2106	TT	CC	1946935575
SNP_P4_121985_2223	NW_004515810.1	Scaffold298	2223	TT	GG	1946935577
SNP_P4_121986_2591	NW_004515810.1	Scaffold298	2591	TT	AA	1946935579
SNP_P4_121987_2594	NW_004515810.1	Scaffold298	2594	AA	TT	1946935581
SNP_P4_121989_2686	NW_004515810.1	Scaffold298	2686	TT	CC	1946935583
SNP_P4_121990_2712	NW_004515810.1	Scaffold298	2712	CC	TT	1946935585
SNP_P4_121991_2917	NW_004515810.1	Scaffold298	2917	TT	AA	1946935587
SNP_P4_121992_2937	NW_004515810.1	Scaffold298	2937	AA	TT	1946935589

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_121994_2983	NW_004515810.1	Scaffold298	2983	AA	GG	1946935593
SNP_P4_121995_3194	NW_004515810.1	Scaffold298	3194	TT	AA	1946935595
SNP_P4_121996_3521	NW_004515810.1	Scaffold298	3521	AA	TT	1946935597
SNP_P4_121997_3606	NW_004515810.1	Scaffold298	3606	TT	AA	1946935599
SNP_P4_121999_3751	NW_004515810.1	Scaffold298	3751	TT	CC	1946935601
SNP_P4_122000_3768	NW_004515810.1	Scaffold298	3768	GG	CC	1946935603
SNP_P4_122001_3773	NW_004515810.1	Scaffold298	3773	CC	TT	1946935605
SNP_P4_122002_3777	NW_004515810.1	Scaffold298	3777	GG	AA	1946935607
SNP_P4_122003_3784	NW_004515810.1	Scaffold298	3784	CC	AA	1946935609
SNP_P4_122004_3830	NW_004515810.1	Scaffold298	3830	CC	TT	1946935611
SNP_P4_122005_4119	NW_004515810.1	Scaffold298	4119	AA	CC	1946935613
SNP_P4_122006_5342	NW_004515810.1	Scaffold298	5342	CC	TT	1946935615
SNP_P4_122007_7940	NW_004515810.1	Scaffold298	7940	AA	CC	1946935617
SNP_P4_122008_7987	NW_004515810.1	Scaffold298	7987	AA	TT	1946935619
SNP_P4_122010_8261	NW_004515810.1	Scaffold298	8261	TT	GG	1946935621
SNP_P4_122011_8429	NW_004515810.1	Scaffold298	8429	AA	TT	1946935623
SNP_P4_122012_8578	NW_004515810.1	Scaffold298	8578	CC	TT	1946935625
SNP_P4_122013_8788	NW_004515810.1	Scaffold298	8788	CC	AA	1946935627
SNP_P4_122015_9117	NW_004515810.1	Scaffold298	9117	TT	CC	1946935629
SNP_P4_122016_9448	NW_004515810.1	Scaffold298	9448	TT	GG	1946935631
SNP_P4_122017_9452	NW_004515810.1	Scaffold298	9452	TT	GG	1946935633
SNP_P4_122018_9494	NW_004515810.1	Scaffold298	9494	AA	TT	1946935635
SNP_P4_122019_9571	NW_004515810.1	Scaffold298	9571	CC	TT	1946935637
SNP_P4_122021_9639	NW_004515810.1	Scaffold298	9639	CC	AA	1946935639
SNP_P4_122022_9709	NW_004515810.1	Scaffold298	9709	TT	AA	1946935641
SNP_P4_122023_9748	NW_004515810.1	Scaffold298	9748	TT	CC	1946935643
SNP_P4_122024_9802	NW_004515810.1	Scaffold298	9802	TT	CC	1946935645
SNP_P4_122025_10034	NW_004515810.1	Scaffold298	10034	TT	CC	1946935647
SNP_P4_122026_10039	NW_004515810.1	Scaffold298	10039	TT	GG	1946935649
SNP_P4_122027_10174	NW_004515810.1	Scaffold298	10174	TT	CC	1946935651
SNP_P4_122028_10339	NW_004515810.1	Scaffold298	10339	GG	AA	1946935653
SNP_P4_122029_10414	NW_004515810.1	Scaffold298	10414	GG	TT	1946935655
SNP_P4_122030_14059	NW_004515810.1	Scaffold298	14059	AA	TT	1946935657
SNP_P4_122031_14212	NW_004515810.1	Scaffold298	14212	CC	AA	1946935660
SNP_P4_122032_14291	NW_004515810.1	Scaffold298	14291	AA	CC	1946935662
SNP_P4_122033_14351	NW_004515810.1	Scaffold298	14351	CC	TT	1946935664
SNP_P4_122034_14392	NW_004515810.1	Scaffold298	14392	AA	CC	1946935666
SNP_P4_122036_20176	NW_004515810.1	Scaffold298	20176	CC	TT	1946935668
SNP_P4_122037_21003	NW_004515810.1	Scaffold298	21003	CC	TT	1946935670
SNP_P4_122039_83015	NW_004515810.1	Scaffold298	83015	AA	GG	1946935672
SNP_P4_122040_85626	NW_004515810.1	Scaffold298	85626	CC	TT	1946935674

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_122041_95595	NW_004515810.1	Scaffold298	95595	GG	AA	1946935676
SNP_P4_122042_98344	NW_004515810.1	Scaffold298	98344	CC	TT	1946935678
SNP_P4_122043_98421	NW_004515810.1	Scaffold298	98421	CC	TT	1946935680
SNP_P4_122044_98429	NW_004515810.1	Scaffold298	98429	TT	GG	1946935682
SNP_P4_122045_98455	NW_004515810.1	Scaffold298	98455	GG	AA	1946935684
SNP_P4_122046_106497	NW_004515810.1	Scaffold298	106497	TT	CC	1946935686
SNP_P4_122047_106732	NW_004515810.1	Scaffold298	106732	TT	CC	1946935688
SNP_P4_122048_106737	NW_004515810.1	Scaffold298	106737	GG	CC	1946935690
SNP_P4_122049_127141	NW_004515810.1	Scaffold298	127141	CC	GG	1946935692
SNP_P4_122050_127511	NW_004515810.1	Scaffold298	127511	AA	CC	1946935694
SNP_P4_122051_127515	NW_004515810.1	Scaffold298	127515	AA	CC	1946935696
SNP_P4_122052_127526	NW_004515810.1	Scaffold298	127526	TT	CC	1946935698
SNP_P4_122053_127533	NW_004515810.1	Scaffold298	127533	CC	TT	1946935700
SNP_P4_122054_139832	NW_004515810.1	Scaffold298	139832	GG	AA	1946935702
SNP_P4_122055_147648	NW_004515810.1	Scaffold298	147648	AA	GG	1946935704
SNP_P4_122056_147749	NW_004515810.1	Scaffold298	147749	GG	CC	1946935706
SNP_P4_122057_147765	NW_004515810.1	Scaffold298	147765	CC	TT	1946935708
SNP_P4_122058_150053	NW_004515810.1	Scaffold298	150053	CC	TT	1946935710
SNP_P4_122059_155075	NW_004515810.1	Scaffold298	155075	GG	AA	1946935712
SNP_P4_122060_155156	NW_004515810.1	Scaffold298	155156	GG	AA	1946935714
SNP_P4_122061_155330	NW_004515810.1	Scaffold298	155330	AA	GG	1946935716
SNP_P4_122062_155336	NW_004515810.1	Scaffold298	155336	GG	TT	1946935718
SNP_P4_122063_155370	NW_004515810.1	Scaffold298	155370	AA	GG	1946935720
SNP_P4_122064_155394	NW_004515810.1	Scaffold298	155394	TT	CC	1946935722
SNP_P4_122065_155408	NW_004515810.1	Scaffold298	155408	TT	GG	1946935724
SNP_P4_122066_155513	NW_004515810.1	Scaffold298	155513	CC	TT	1946935726
SNP_P4_122067_155679	NW_004515810.1	Scaffold298	155679	CC	TT	1946935728
SNP_P4_122068_155700	NW_004515810.1	Scaffold298	155700	GG	AA	1946935730
SNP_P4_122069_155909	NW_004515810.1	Scaffold298	155909	GG	AA	1946935732
SNP_P4_122070_156037	NW_004515810.1	Scaffold298	156037	AA	GG	1946935734
SNP_P4_122072_168037	NW_004515810.1	Scaffold298	168037	GG	AA	1946935736
SNP_P4_122073_171196	NW_004515810.1	Scaffold298	171196	CC	TT	1946935738
SNP_P4_122074_176915	NW_004515810.1	Scaffold298	176915	AA	GG	1946935740
SNP_P4_122075_188411	NW_004515810.1	Scaffold298	188411	GG	AA	1946935742
SNP_P4_122076_193600	NW_004515810.1	Scaffold298	193600	AA	CC	1946935744
SNP_P4_122077_193639	NW_004515810.1	Scaffold298	193639	TT	GG	1946935746
SNP_P4_122078_193658	NW_004515810.1	Scaffold298	193658	GG	AA	1946935748
SNP_P4_122079_193720	NW_004515810.1	Scaffold298	193720	AA	GG	1946935750
SNP_P4_122080_193721	NW_004515810.1	Scaffold298	193721	GG	AA	1946935752
SNP_P4_122081_194073	NW_004515810.1	Scaffold298	194073	CC	GG	1946935754
SNP_P4_122082_195904	NW_004515810.1	Scaffold298	195904	AA	CC	1946935756
SNP_P4_122083_201775	NW_004515810.1	Scaffold298	201775	GG	AA	1946935758

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_122085_202091	NW_004515810.1	Scaffold298	202091	AA	GG	1946935762
SNP_P4_122086_204962	NW_004515810.1	Scaffold298	204962	TT	CC	1946935764
SNP_P4_122087_207801	NW_004515810.1	Scaffold298	207801	TT	AA	1946935766
SNP_P4_122088_207852	NW_004515810.1	Scaffold298	207852	TT	GG	1946935768
SNP_P4_122089_207915	NW_004515810.1	Scaffold298	207915	AA	CC	1946935770
SNP_P4_122090_207966	NW_004515810.1	Scaffold298	207966	GG	TT	1946935772
SNP_P4_122091_208055	NW_004515810.1	Scaffold298	208055	GG	AA	1946935774
SNP_P4_122092_208076	NW_004515810.1	Scaffold298	208076	AA	GG	1946935776
SNP_P4_122095_208249	NW_004515810.1	Scaffold298	208249	CC	TT	1946935778
SNP_P4_122096_208347	NW_004515810.1	Scaffold298	208347	AA	GG	1946935780
SNP_P4_122097_208376	NW_004515810.1	Scaffold298	208376	CC	GG	1946935782
SNP_P4_122098_208381	NW_004515810.1	Scaffold298	208381	GG	AA	1946935784
SNP_P4_122099_208490	NW_004515810.1	Scaffold298	208490	GG	AA	1946935786
SNP_P4_122100_208502	NW_004515810.1	Scaffold298	208502	GG	AA	1946935788
SNP_P4_122101_208619	NW_004515810.1	Scaffold298	208619	TT	AA	1946935790
SNP_P4_122102_208620	NW_004515810.1	Scaffold298	208620	AA	TT	1946935792
SNP_P4_122103_208664	NW_004515810.1	Scaffold298	208664	AA	GG	1946935794
SNP_P4_122104_210715	NW_004515810.1	Scaffold298	210715	GG	AA	1946935796
SNP_P4_122105_210851	NW_004515810.1	Scaffold298	210851	GG	TT	1946935798
SNP_P4_122106_210898	NW_004515810.1	Scaffold298	210898	AA	GG	1946935800
SNP_P4_122107_211731	NW_004515810.1	Scaffold298	211731	AA	CC	1946935802
SNP_P4_122108_211739	NW_004515810.1	Scaffold298	211739	GG	TT	1946935804
SNP_P4_122109_211963	NW_004515810.1	Scaffold298	211963	AA	TT	1946935806
SNP_P4_122110_211998	NW_004515810.1	Scaffold298	211998	GG	CC	1946935808
SNP_P4_122111_212057	NW_004515810.1	Scaffold298	212057	GG	CC	1946935810
SNP_P4_122113_212157	NW_004515810.1	Scaffold298	212157	GG	TT	1946935812
SNP_P4_122114_212176	NW_004515810.1	Scaffold298	212176	AA	TT	1946935813
SNP_P4_122115_212739	NW_004515810.1	Scaffold298	212739	AA	TT	1946935815
SNP_P4_122116_10943	NW_004515811.1	Scaffold299	10943	CC	TT	1946935817
SNP_P4_122117_10944	NW_004515811.1	Scaffold299	10944	TT	AA	1946935819
SNP_P4_122118_10967	NW_004515811.1	Scaffold299	10967	GG	AA	1946935821
SNP_P4_122119_10979	NW_004515811.1	Scaffold299	10979	TT	CC	1946935824
SNP_P4_122120_10993	NW_004515811.1	Scaffold299	10993	AA	TT	1946935826
SNP_P4_122121_10994	NW_004515811.1	Scaffold299	10994	GG	AA	1946935828
SNP_P4_122122_11001	NW_004515811.1	Scaffold299	11001	TT	GG	1946935830
SNP_P4_122123_12722	NW_004515811.1	Scaffold299	12722	TT	CC	1946935832
SNP_P4_122124_12799	NW_004515811.1	Scaffold299	12799	TT	CC	1946935834
SNP_P4_122126_36460	NW_004515811.1	Scaffold299	36460	TT	CC	1946935836
SNP_P4_122127_36495	NW_004515811.1	Scaffold299	36495	CC	TT	1946935838
SNP_P4_122128_36520	NW_004515811.1	Scaffold299	36520	AA	GG	1946935839
SNP_P4_122129_36526	NW_004515811.1	Scaffold299	36526	GG	TT	1946935840

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_122131_36556	NW_004515811.1	Scaffold299	36556	TT	AA	1946935842
SNP_P4_122132_36561	NW_004515811.1	Scaffold299	36561	AA	GG	1946935843
SNP_P4_122133_36813	NW_004515811.1	Scaffold299	36813	TT	CC	1946935844
SNP_P4_122134_36824	NW_004515811.1	Scaffold299	36824	CC	TT	1946935845
SNP_P4_122135_45456	NW_004515811.1	Scaffold299	45456	AA	GG	1946935846
SNP_P4_122136_52696	NW_004515811.1	Scaffold299	52696	TT	GG	1946935847
SNP_P4_122137_52721	NW_004515811.1	Scaffold299	52721	GG	TT	1946935849
SNP_P4_122141_66297	NW_004515811.1	Scaffold299	66297	TT	AA	1946935850
SNP_P4_122142_66298	NW_004515811.1	Scaffold299	66298	GG	TT	1946935852
SNP_P4_122143_66427	NW_004515811.1	Scaffold299	66427	GG	CC	1946935854
SNP_P4_122144_66663	NW_004515811.1	Scaffold299	66663	AA	GG	1946935856
SNP_P4_122145_67400	NW_004515811.1	Scaffold299	67400	AA	GG	1946935858
SNP_P4_122146_71844	NW_004515811.1	Scaffold299	71844	GG	AA	1946935860
SNP_P4_122147_83423	NW_004515811.1	Scaffold299	83423	TT	AA	1946935862
SNP_P4_122148_94160	NW_004515811.1	Scaffold299	94160	CC	TT	1946935864
SNP_P4_122150_112803	NW_004515811.1	Scaffold299	112803	AA	GG	1946935866
SNP_P4_122151_121209	NW_004515811.1	Scaffold299	121209	TT	GG	1946935868
SNP_P4_122152_123594	NW_004515811.1	Scaffold299	123594	TT	CC	1946935870
SNP_P4_122153_123633	NW_004515811.1	Scaffold299	123633	GG	TT	1946935872
SNP_P4_122154_124750	NW_004515811.1	Scaffold299	124750	GG	AA	1946935874
SNP_P4_122155_124751	NW_004515811.1	Scaffold299	124751	GG	CC	1946935876
SNP_P4_122156_134934	NW_004515811.1	Scaffold299	134934	AA	CC	1946935878
SNP_P4_122157_135051	NW_004515811.1	Scaffold299	135051	AA	GG	1946935880
SNP_P4_122158_135058	NW_004515811.1	Scaffold299	135058	CC	TT	1946935882
SNP_P4_122159_135063	NW_004515811.1	Scaffold299	135063	TT	CC	1946935884
SNP_P4_122160_135144	NW_004515811.1	Scaffold299	135144	AA	CC	1946935886
SNP_P4_122161_135258	NW_004515811.1	Scaffold299	135258	AA	GG	1946935888
SNP_P4_122162_139971	NW_004515811.1	Scaffold299	139971	TT	CC	1946935890
SNP_P4_122163_147901	NW_004515811.1	Scaffold299	147901	CC	AA	1946935892
SNP_P4_122164_153177	NW_004515811.1	Scaffold299	153177	AA	GG	1946935894
SNP_P4_122165_153219	NW_004515811.1	Scaffold299	153219	AA	GG	1946935896
SNP_P4_122166_153527	NW_004515811.1	Scaffold299	153527	GG	AA	1946935898
SNP_P4_122167_158405	NW_004515811.1	Scaffold299	158405	GG	TT	1946935900
SNP_P4_122168_158477	NW_004515811.1	Scaffold299	158477	TT	CC	1946935902
SNP_P4_122169_158540	NW_004515811.1	Scaffold299	158540	AA	TT	1946935903
SNP_P4_122170_158625	NW_004515811.1	Scaffold299	158625	AA	GG	1946935905
SNP_P4_122171_158654	NW_004515811.1	Scaffold299	158654	AA	GG	1946935907
SNP_P4_122172_158693	NW_004515811.1	Scaffold299	158693	TT	GG	1946935909
SNP_P4_122173_158720	NW_004515811.1	Scaffold299	158720	GG	AA	1946935911
SNP_P4_122174_158734	NW_004515811.1	Scaffold299	158734	CC	TT	1946935913
SNP_P4_122175_158948	NW_004515811.1	Scaffold299	158948	AA	GG	1946935915

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_122177_158966	NW_004515811.1	Scaffold299	158966	AA	CC	1946935917
SNP_P4_122178_196494	NW_004515811.1	Scaffold299	196494	AA	GG	1946935919
SNP_P4_122179_196897	NW_004515811.1	Scaffold299	196897	TT	CC	1946935921
SNP_P4_122180_197300	NW_004515811.1	Scaffold299	197300	CC	TT	1946935923
SNP_P4_122181_205981	NW_004515811.1	Scaffold299	205981	GG	CC	1946935925
SNP_P4_122182_206110	NW_004515811.1	Scaffold299	206110	TT	GG	1946935927
SNP_P4_122183_206172	NW_004515811.1	Scaffold299	206172	CC	TT	1946935929
SNP_P4_122184_206216	NW_004515811.1	Scaffold299	206216	AA	GG	1946935930
SNP_P4_122185_206243	NW_004515811.1	Scaffold299	206243	CC	TT	1946935932
SNP_P4_122186_206416	NW_004515811.1	Scaffold299	206416	AA	CC	1946935934
SNP_P4_122187_206471	NW_004515811.1	Scaffold299	206471	AA	GG	1946935936
SNP_P4_122188_206535	NW_004515811.1	Scaffold299	206535	AA	GG	1946935938
SNP_P4_122189_206540	NW_004515811.1	Scaffold299	206540	CC	AA	1946935940
SNP_P4_122190_213277	NW_004515811.1	Scaffold299	213277	AA	GG	1946935942
SNP_P4_122191_213385	NW_004515811.1	Scaffold299	213385	AA	TT	1946935944
SNP_P4_122192_213389	NW_004515811.1	Scaffold299	213389	GG	AA	1946935946
SNP_P4_122193_213393	NW_004515811.1	Scaffold299	213393	GG	TT	1946935948
SNP_P4_122194_213401	NW_004515811.1	Scaffold299	213401	CC	TT	1946935950
SNP_P4_122195_213617	NW_004515811.1	Scaffold299	213617	CC	TT	1946935952
SNP_P4_122196_213653	NW_004515811.1	Scaffold299	213653	AA	TT	1946935953
SNP_P4_122197_213801	NW_004515811.1	Scaffold299	213801	TT	CC	1946935955
SNP_P4_122198_214298	NW_004515811.1	Scaffold299	214298	AA	CC	1946935957
SNP_P4_122199_214694	NW_004515811.1	Scaffold299	214694	CC	AA	1946935959
SNP_P4_122200_2778	NW_004515812.1	Scaffold300	2778	AA	TT	1946935961
SNP_P4_122201_6570	NW_004515812.1	Scaffold300	6570	TT	AA	1946935963
SNP_P4_122202_8004	NW_004515812.1	Scaffold300	8004	TT	GG	1946935965
SNP_P4_122203_12567	NW_004515812.1	Scaffold300	12567	AA	TT	1946935967
SNP_P4_122204_23630	NW_004515812.1	Scaffold300	23630	TT	AA	1946935969
SNP_P4_122205_23961	NW_004515812.1	Scaffold300	23961	TT	AA	1946935971
SNP_P4_122206_28290	NW_004515812.1	Scaffold300	28290	CC	AA	1946935973
SNP_P4_122207_31641	NW_004515812.1	Scaffold300	31641	CC	TT	1946935975
SNP_P4_122208_31644	NW_004515812.1	Scaffold300	31644	CC	GG	1946935976
SNP_P4_122209_31699	NW_004515812.1	Scaffold300	31699	TT	GG	1946935978
SNP_P4_122210_32774	NW_004515812.1	Scaffold300	32774	CC	GG	1946935980
SNP_P4_122211_32782	NW_004515812.1	Scaffold300	32782	GG	AA	1946935982
SNP_P4_122212_32812	NW_004515812.1	Scaffold300	32812	CC	AA	1946935984
SNP_P4_122213_32814	NW_004515812.1	Scaffold300	32814	TT	CC	1946935986
SNP_P4_122214_41063	NW_004515812.1	Scaffold300	41063	AA	GG	1946935988
SNP_P4_122215_41064	NW_004515812.1	Scaffold300	41064	CC	GG	1946935990
SNP_P4_122216_41249	NW_004515812.1	Scaffold300	41249	CC	AA	1946935992
SNP_P4_122217_41469	NW_004515812.1	Scaffold300	41469	GG	AA	1946935993
SNP_P4_122218_45448	NW_004515812.1	Scaffold300	45448	AA	GG	1946935995

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_122220_45455	NW_004515812.1	Scaffold300	45455	CC	TT	1946935999
SNP_P4_122221_45456	NW_004515812.1	Scaffold300	45456	AA	GG	1946936001
SNP_P4_122222_45459	NW_004515812.1	Scaffold300	45459	CC	AA	1946936003
SNP_P4_122223_54314	NW_004515812.1	Scaffold300	54314	TT	AA	1946936005
SNP_P4_122224_57867	NW_004515812.1	Scaffold300	57867	CC	TT	1946936007
SNP_P4_122225_74150	NW_004515812.1	Scaffold300	74150	AA	GG	1946936009
SNP_P4_122227_74752	NW_004515812.1	Scaffold300	74752	AA	CC	1946936011
SNP_P4_122228_80552	NW_004515812.1	Scaffold300	80552	AA	GG	1946936013
SNP_P4_122229_85495	NW_004515812.1	Scaffold300	85495	CC	GG	1946936015
SNP_P4_122230_89520	NW_004515812.1	Scaffold300	89520	AA	CC	1946936017
SNP_P4_122231_90349	NW_004515812.1	Scaffold300	90349	AA	TT	1946936019
SNP_P4_122232_101023	NW_004515812.1	Scaffold300	101023	TT	CC	1946936021
SNP_P4_122233_101412	NW_004515812.1	Scaffold300	101412	AA	CC	1946936023
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SNP_P4_122235_101452	NW_004515812.1	Scaffold300	101452	AA	GG	1946936027
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SNP_P4_122238_101536	NW_004515812.1	Scaffold300	101536	CC	GG	1946936031
SNP_P4_122239_101540	NW_004515812.1	Scaffold300	101540	CC	GG	1946936032
SNP_P4_122240_101541	NW_004515812.1	Scaffold300	101541	AA	TT	1946936034
SNP_P4_122241_101599	NW_004515812.1	Scaffold300	101599	AA	CC	1946936036
SNP_P4_122242_101615	NW_004515812.1	Scaffold300	101615	AA	TT	1946936038
SNP_P4_122243_101634	NW_004515812.1	Scaffold300	101634	AA	CC	1946936040
SNP_P4_122244_102450	NW_004515812.1	Scaffold300	102450	GG	AA	1946936042
SNP_P4_122245_103704	NW_004515812.1	Scaffold300	103704	CC	TT	1946936044
SNP_P4_122246_1249	NW_004515813.1	Scaffold301	1249	CC	AA	1946936046
SNP_P4_122247_5233	NW_004515814.1	Scaffold303	5233	TT	CC	1946936048
SNP_P4_122248_9923	NW_004515814.1	Scaffold303	9923	CC	TT	1946936050
SNP_P4_122249_9933	NW_004515814.1	Scaffold303	9933	TT	AA	1946936052
SNP_P4_122250_9944	NW_004515814.1	Scaffold303	9944	TT	GG	1946936053
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SNP_P4_122254_30257	NW_004515814.1	Scaffold303	30257	GG	TT	1946936059
SNP_P4_122255_33068	NW_004515814.1	Scaffold303	33068	GG	AA	1946936061
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SNP_P4_122259_89526	NW_004515814.1	Scaffold303	89526	AA	GG	1946936067
SNP_P4_122260_120605	NW_004515814.1	Scaffold303	120605	GG	TT	1946936069
SNP_P4_122261_120655	NW_004515814.1	Scaffold303	120655	TT	CC	1946936071
SNP_P4_122262_135997	NW_004515814.1	Scaffold303	135997	TT	CC	1946936073
SNP_P4_122264_592	NW_004515815.1	Scaffold304	592	AA	CC	1946936075
SNP_P4_122265_648	NW_004515815.1	Scaffold304	648	TT	AA	1946936077

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_122268_1806	NW_004515816.1	Scaffold305	1806	CC	AA	1946936083
SNP_P4_122269_2106	NW_004515816.1	Scaffold305	2106	TT	CC	1946936085
SNP_P4_122270_2107	NW_004515816.1	Scaffold305	2107	AA	TT	1946936087
SNP_P4_122271_3942	NW_004515816.1	Scaffold305	3942	CC	AA	1946936089
SNP_P4_122272_3954	NW_004515816.1	Scaffold305	3954	TT	GG	1946936091
SNP_P4_122273_4072	NW_004515816.1	Scaffold305	4072	TT	CC	1946936093
SNP_P4_122274_4100	NW_004515816.1	Scaffold305	4100	CC	TT	1946936095
SNP_P4_122275_4106	NW_004515816.1	Scaffold305	4106	CC	AA	1946936097
SNP_P4_122276_4122	NW_004515816.1	Scaffold305	4122	CC	TT	1946936099
SNP_P4_122277_26600	NW_004515816.1	Scaffold305	26600	CC	TT	1946936101
SNP_P4_122278_29167	NW_004515816.1	Scaffold305	29167	CC	TT	1946936103
SNP_P4_122279_29959	NW_004515816.1	Scaffold305	29959	AA	GG	1946936105
SNP_P4_122280_30042	NW_004515816.1	Scaffold305	30042	AA	GG	1946936107
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SNP_P4_122282_30354	NW_004515816.1	Scaffold305	30354	GG	TT	1946936111
SNP_P4_122283_30364	NW_004515816.1	Scaffold305	30364	GG	CC	1946936113
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SNP_P4_122285_30388	NW_004515816.1	Scaffold305	30388	AA	GG	1946936117
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SNP_P4_122289_31568	NW_004515816.1	Scaffold305	31568	TT	AA	1946936125
SNP_P4_122290_31578	NW_004515816.1	Scaffold305	31578	GG	AA	1946936127
SNP_P4_122291_31633	NW_004515816.1	Scaffold305	31633	TT	CC	1946936129
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SNP_P4_122298_31967	NW_004515816.1	Scaffold305	31967	TT	CC	1946936143
SNP_P4_122299_31994	NW_004515816.1	Scaffold305	31994	GG	AA	1946936145
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SNP_P4_122302_32287	NW_004515816.1	Scaffold305	32287	GG	AA	1946936151
SNP_P4_122303_34709	NW_004515816.1	Scaffold305	34709	TT	GG	1946936153
SNP_P4_122304_34710	NW_004515816.1	Scaffold305	34710	GG	AA	1946936155
SNP_P4_122305_37890	NW_004515816.1	Scaffold305	37890	GG	TT	1946936157
SNP_P4_122307_59501	NW_004515816.1	Scaffold305	59501	AA	GG	1946936159
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_122310_99787	NW_004515816.1	Scaffold305	99787	GG	TT	1946936165
SNP_P4_122311_99805	NW_004515816.1	Scaffold305	99805	GG	TT	1946936167
SNP_P4_122312_124439	NW_004515816.1	Scaffold305	124439	GG	AA	1946936169
SNP_P4_122313_124794	NW_004515816.1	Scaffold305	124794	CC	AA	1946936171
SNP_P4_122314_124800	NW_004515816.1	Scaffold305	124800	CC	AA	1946936173
SNP_P4_122315_124816	NW_004515816.1	Scaffold305	124816	TT	CC	1946936175
SNP_P4_122316_124848	NW_004515816.1	Scaffold305	124848	GG	TT	1946936177
SNP_P4_122317_150019	NW_004515816.1	Scaffold305	150019	CC	GG	1946936179
SNP_P4_122318_162234	NW_004515816.1	Scaffold305	162234	AA	TT	1946936181
SNP_P4_122319_193196	NW_004515816.1	Scaffold305	193196	AA	GG	1946936183
SNP_P4_122320_196689	NW_004515816.1	Scaffold305	196689	CC	AA	1946936185
SNP_P4_122321_203917	NW_004515816.1	Scaffold305	203917	CC	TT	1946936187
SNP_P4_122322_205093	NW_004515816.1	Scaffold305	205093	CC	TT	1946936189
SNP_P4_122323_205098	NW_004515816.1	Scaffold305	205098	AA	TT	1946936191
SNP_P4_122324_205131	NW_004515816.1	Scaffold305	205131	CC	AA	1946936193
SNP_P4_122325_205183	NW_004515816.1	Scaffold305	205183	GG	TT	1946936195
SNP_P4_122326_205324	NW_004515816.1	Scaffold305	205324	GG	AA	1946936197
SNP_P4_122327_205329	NW_004515816.1	Scaffold305	205329	CC	TT	1946936199
SNP_P4_122328_205355	NW_004515816.1	Scaffold305	205355	AA	GG	1946936201
SNP_P4_122329_205461	NW_004515816.1	Scaffold305	205461	AA	TT	1946936203
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SNP_P4_122331_93	NW_004515817.1	Scaffold306	93	CC	TT	1946936207
SNP_P4_122332_5171	NW_004515817.1	Scaffold306	5171	CC	TT	1946936209
SNP_P4_122333_5210	NW_004515817.1	Scaffold306	5210	GG	AA	1946936211
SNP_P4_122334_5631	NW_004515817.1	Scaffold306	5631	AA	GG	1946936213
SNP_P4_122336_6755	NW_004515817.1	Scaffold306	6755	AA	GG	1946936215
SNP_P4_122338_25553	NW_004515817.1	Scaffold306	25553	GG	AA	1946936217
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SNP_P4_122341_35649	NW_004515817.1	Scaffold306	35649	GG	TT	1946936223
SNP_P4_122342_35717	NW_004515817.1	Scaffold306	35717	AA	GG	1946936225
SNP_P4_122343_35860	NW_004515817.1	Scaffold306	35860	TT	CC	1946936227
SNP_P4_122344_35960	NW_004515817.1	Scaffold306	35960	CC	AA	1946936229
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SNP_P4_122348_42462	NW_004515817.1	Scaffold306	42462	TT	AA	1946936238
SNP_P4_122349_43630	NW_004515817.1	Scaffold306	43630	AA	GG	1946936240
SNP_P4_122350_43846	NW_004515817.1	Scaffold306	43846	AA	CC	1946936242
SNP_P4_122351_43907	NW_004515817.1	Scaffold306	43907	AA	GG	1946936244
SNP_P4_122352_43911	NW_004515817.1	Scaffold306	43911	AA	GG	1946936246

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_122355_44642	NW_004515817.1	Scaffold306	44642	AA	CC	1946936252
SNP_P4_122356_44676	NW_004515817.1	Scaffold306	44676	TT	AA	1946936254
SNP_P4_122357_44853	NW_004515817.1	Scaffold306	44853	AA	GG	1946936256
SNP_P4_122358_44997	NW_004515817.1	Scaffold306	44997	TT	CC	1946936258
SNP_P4_122359_45018	NW_004515817.1	Scaffold306	45018	CC	GG	1946936260
SNP_P4_122361_45880	NW_004515817.1	Scaffold306	45880	AA	TT	1946936262
SNP_P4_122362_45891	NW_004515817.1	Scaffold306	45891	TT	CC	1946936264
SNP_P4_122363_45903	NW_004515817.1	Scaffold306	45903	AA	GG	1946936266
SNP_P4_122364_46770	NW_004515817.1	Scaffold306	46770	TT	CC	1946936268
SNP_P4_122366_47335	NW_004515817.1	Scaffold306	47335	CC	GG	1946936270
SNP_P4_122367_47401	NW_004515817.1	Scaffold306	47401	CC	AA	1946936272
SNP_P4_122368_48313	NW_004515817.1	Scaffold306	48313	TT	CC	1946936274
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SNP_P4_122370_49561	NW_004515817.1	Scaffold306	49561	CC	TT	1946936278
SNP_P4_122371_55534	NW_004515817.1	Scaffold306	55534	TT	GG	1946936279
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SNP_P4_122378_60031	NW_004515817.1	Scaffold306	60031	AA	CC	1946936289
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SNP_P4_122386_64285	NW_004515817.1	Scaffold306	64285	TT	CC	1946936301
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SNP_P4_122389_64837	NW_004515817.1	Scaffold306	64837	AA	CC	1946936307
SNP_P4_122390_64967	NW_004515817.1	Scaffold306	64967	CC	AA	1946936309
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SNP_P4_122397_76908	NW_004515817.1	Scaffold306	76908	AA	GG	1946936323
SNP_P4_122398_78138	NW_004515817.1	Scaffold306	78138	TT	AA	1946936325
SNP_P4_122399_78169	NW_004515817.1	Scaffold306	78169	AA	CC	1946936327
SNP_P4_122400_78810	NW_004515817.1	Scaffold306	78810	CC	GG	1946936329

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_122403_80769	NW_004515817.1	Scaffold306	80769	CC	GG	1946936335
SNP_P4_122404_83151	NW_004515817.1	Scaffold306	83151	AA	GG	1946936337
SNP_P4_122405_83180	NW_004515817.1	Scaffold306	83180	AA	GG	1946936339
SNP_P4_122406_84010	NW_004515817.1	Scaffold306	84010	AA	TT	1946936341
SNP_P4_122407_84253	NW_004515817.1	Scaffold306	84253	TT	CC	1946936343
SNP_P4_122408_84273	NW_004515817.1	Scaffold306	84273	GG	AA	1946936345
SNP_P4_122409_88789	NW_004515817.1	Scaffold306	88789	CC	AA	1946936347
SNP_P4_122410_89216	NW_004515817.1	Scaffold306	89216	AA	CC	1946936349
SNP_P4_122411_94653	NW_004515817.1	Scaffold306	94653	GG	CC	1946936351
SNP_P4_122412_94675	NW_004515817.1	Scaffold306	94675	GG	AA	1946936353
SNP_P4_122413_94687	NW_004515817.1	Scaffold306	94687	GG	CC	1946936355
SNP_P4_122414_95819	NW_004515817.1	Scaffold306	95819	CC	AA	1946936357
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SNP_P4_122417_97702	NW_004515817.1	Scaffold306	97702	CC	TT	1946936363
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SNP_P4_122419_100687	NW_004515817.1	Scaffold306	100687	AA	TT	1946936367
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SNP_P4_122436_126419	NW_004515817.1	Scaffold306	126419	TT	GG	1946936401
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SNP_P4_122441_127679	NW_004515817.1	Scaffold306	127679	CC	TT	1946936409
SNP_P4_122442_127822	NW_004515817.1	Scaffold306	127822	CC	GG	1946936411
SNP_P4_122443_128091	NW_004515817.1	Scaffold306	128091	TT	CC	1946936413

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_122444_128122	NW_004515817.1	Scaffold306	128122	CC	TT	1946936415
SNP_P4_122445_128171	NW_004515817.1	Scaffold306	128171	TT	AA	1946936417
SNP_P4_122446_128173	NW_004515817.1	Scaffold306	128173	AA	TT	1946936419
SNP_P4_122447_128425	NW_004515817.1	Scaffold306	128425	CC	AA	1946936421
SNP_P4_122448_128525	NW_004515817.1	Scaffold306	128525	AA	GG	1946936423
SNP_P4_122450_128591	NW_004515817.1	Scaffold306	128591	TT	AA	1946936425
SNP_P4_122451_128619	NW_004515817.1	Scaffold306	128619	GG	AA	1946936427
SNP_P4_122452_128753	NW_004515817.1	Scaffold306	128753	TT	CC	1946936429
SNP_P4_122453_128864	NW_004515817.1	Scaffold306	128864	AA	GG	1946936431
SNP_P4_122455_130338	NW_004515817.1	Scaffold306	130338	GG	AA	1946936433
SNP_P4_122456_130509	NW_004515817.1	Scaffold306	130509	GG	AA	1946936435
SNP_P4_122457_130525	NW_004515817.1	Scaffold306	130525	CC	TT	1946936437
SNP_P4_122458_130556	NW_004515817.1	Scaffold306	130556	TT	CC	1946936439
SNP_P4_122459_130666	NW_004515817.1	Scaffold306	130666	TT	GG	1946936441
SNP_P4_122460_130699	NW_004515817.1	Scaffold306	130699	AA	CC	1946936443
SNP_P4_122461_130767	NW_004515817.1	Scaffold306	130767	AA	CC	1946936445
SNP_P4_122462_131271	NW_004515817.1	Scaffold306	131271	AA	TT	1946936447
SNP_P4_122463_131368	NW_004515817.1	Scaffold306	131368	TT	CC	1946936449
SNP_P4_122464_131438	NW_004515817.1	Scaffold306	131438	AA	GG	1946936451
SNP_P4_122465_131457	NW_004515817.1	Scaffold306	131457	TT	CC	1946936453
SNP_P4_122466_131508	NW_004515817.1	Scaffold306	131508	AA	GG	1946936455
SNP_P4_122467_131708	NW_004515817.1	Scaffold306	131708	AA	GG	1946936457
SNP_P4_122468_131832	NW_004515817.1	Scaffold306	131832	TT	CC	1946936459
SNP_P4_122469_146273	NW_004515817.1	Scaffold306	146273	CC	TT	1946936461
SNP_P4_122470_146413	NW_004515817.1	Scaffold306	146413	GG	AA	1946936463
SNP_P4_122471_146596	NW_004515817.1	Scaffold306	146596	TT	CC	1946936465
SNP_P4_122472_146626	NW_004515817.1	Scaffold306	146626	GG	AA	1946936467
SNP_P4_122473_146664	NW_004515817.1	Scaffold306	146664	CC	AA	1946936469
SNP_P4_122474_146685	NW_004515817.1	Scaffold306	146685	TT	AA	1946936471
SNP_P4_122475_149245	NW_004515817.1	Scaffold306	149245	TT	GG	1946936473
SNP_P4_122476_150309	NW_004515817.1	Scaffold306	150309	CC	AA	1946936475
SNP_P4_122477_162934	NW_004515817.1	Scaffold306	162934	TT	GG	1946936477
SNP_P4_122478_163856	NW_004515817.1	Scaffold306	163856	GG	AA	1946936479
SNP_P4_122479_164012	NW_004515817.1	Scaffold306	164012	CC	TT	1946936481
SNP_P4_122481_166464	NW_004515817.1	Scaffold306	166464	AA	TT	1946936483
SNP_P4_122482_166472	NW_004515817.1	Scaffold306	166472	AA	GG	1946936485
SNP_P4_122483_166487	NW_004515817.1	Scaffold306	166487	AA	CC	1946936487
SNP_P4_122484_166493	NW_004515817.1	Scaffold306	166493	AA	CC	1946936490
SNP_P4_122485_166670	NW_004515817.1	Scaffold306	166670	CC	GG	1946936492
SNP_P4_122486_166728	NW_004515817.1	Scaffold306	166728	TT	CC	1946936494
SNP_P4_122487_166741	NW_004515817.1	Scaffold306	166741	AA	TT	1946936496
SNP_P4_122488_166867	NW_004515817.1	Scaffold306	166867	AA	GG	1946936498

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_122490_169950	NW_004515817.1	Scaffold306	169950	TT	GG	1946936502
SNP_P4_122491_171473	NW_004515817.1	Scaffold306	171473	GG	AA	1946936504
SNP_P4_122492_171746	NW_004515817.1	Scaffold306	171746	AA	CC	1946936506
SNP_P4_122493_175187	NW_004515817.1	Scaffold306	175187	CC	TT	1946936508
SNP_P4_122494_180468	NW_004515817.1	Scaffold306	180468	TT	GG	1946936510
SNP_P4_122495_186298	NW_004515817.1	Scaffold306	186298	AA	TT	1946936513
SNP_P4_122496_186590	NW_004515817.1	Scaffold306	186590	TT	AA	1946936515
SNP_P4_122498_197395	NW_004515817.1	Scaffold306	197395	TT	CC	1946936517
SNP_P4_122499_197432	NW_004515817.1	Scaffold306	197432	TT	AA	1946936519
SNP_P4_122500_203336	NW_004515817.1	Scaffold306	203336	CC	TT	1946936521
SNP_P4_122501_203351	NW_004515817.1	Scaffold306	203351	AA	GG	1946936523
SNP_P4_122502_203379	NW_004515817.1	Scaffold306	203379	AA	GG	1946936525
SNP_P4_122503_203645	NW_004515817.1	Scaffold306	203645	TT	GG	1946936527
SNP_P4_122504_203678	NW_004515817.1	Scaffold306	203678	GG	AA	1946936529
SNP_P4_122505_208200	NW_004515817.1	Scaffold306	208200	CC	AA	1946936531
SNP_P4_122506_208691	NW_004515817.1	Scaffold306	208691	TT	CC	1946936533
SNP_P4_122507_212326	NW_004515817.1	Scaffold306	212326	TT	CC	1946936535
SNP_P4_122508_212951	NW_004515817.1	Scaffold306	212951	TT	AA	1946936537
SNP_P4_122509_212952	NW_004515817.1	Scaffold306	212952	AA	TT	1946936539
SNP_P4_122510_212955	NW_004515817.1	Scaffold306	212955	CC	AA	1946936541
SNP_P4_122511_213227	NW_004515817.1	Scaffold306	213227	TT	CC	1946936543
SNP_P4_122512_213229	NW_004515817.1	Scaffold306	213229	GG	AA	1946936545
SNP_P4_122513_214855	NW_004515817.1	Scaffold306	214855	AA	CC	1946936547
SNP_P4_122514_214919	NW_004515817.1	Scaffold306	214919	CC	TT	1946936549
SNP_P4_122515_214984	NW_004515817.1	Scaffold306	214984	AA	GG	1946936551
SNP_P4_122516_214988	NW_004515817.1	Scaffold306	214988	AA	CC	1946936553
SNP_P4_122517_215293	NW_004515817.1	Scaffold306	215293	TT	GG	1946936555
SNP_P4_122518_215300	NW_004515817.1	Scaffold306	215300	AA	CC	1946936557
SNP_P4_122519_215354	NW_004515817.1	Scaffold306	215354	AA	GG	1946936559
SNP_P4_122520_216430	NW_004515817.1	Scaffold306	216430	TT	GG	1946936561
SNP_P4_122521_216454	NW_004515817.1	Scaffold306	216454	CC	TT	1946936563
SNP_P4_122522_216864	NW_004515817.1	Scaffold306	216864	TT	CC	1946936565
SNP_P4_122523_216943	NW_004515817.1	Scaffold306	216943	TT	GG	1946936567
SNP_P4_122524_216947	NW_004515817.1	Scaffold306	216947	CC	TT	1946936569
SNP_P4_122525_218552	NW_004515817.1	Scaffold306	218552	AA	CC	1946936571
SNP_P4_122526_218555	NW_004515817.1	Scaffold306	218555	TT	CC	1946936573
SNP_P4_122527_219494	NW_004515817.1	Scaffold306	219494	AA	GG	1946936575
SNP_P4_122528_221470	NW_004515817.1	Scaffold306	221470	CC	TT	1946936577
SNP_P4_122529_221630	NW_004515817.1	Scaffold306	221630	GG	CC	1946936579
SNP_P4_122530_221772	NW_004515817.1	Scaffold306	221772	GG	AA	1946936581
SNP_P4_122531_221800	NW_004515817.1	Scaffold306	221800	CC	TT	1946936584

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_122534_226902	NW_004515817.1	Scaffold306	226902	GG	AA	1946936588
SNP_P4_122535_227272	NW_004515817.1	Scaffold306	227272	TT	AA	1946936590
SNP_P4_122537_236636	NW_004515817.1	Scaffold306	236636	CC	AA	1946936592
SNP_P4_122538_236646	NW_004515817.1	Scaffold306	236646	CC	TT	1946936594
SNP_P4_122539_241483	NW_004515817.1	Scaffold306	241483	AA	CC	1946936596
SNP_P4_122540_264895	NW_004515817.1	Scaffold306	264895	AA	TT	1946936598
SNP_P4_122541_264979	NW_004515817.1	Scaffold306	264979	AA	TT	1946936600
SNP_P4_122542_265229	NW_004515817.1	Scaffold306	265229	TT	AA	1946936602
SNP_P4_122543_265256	NW_004515817.1	Scaffold306	265256	TT	CC	1946936604
SNP_P4_122544_265278	NW_004515817.1	Scaffold306	265278	GG	AA	1946936606
SNP_P4_122545_265284	NW_004515817.1	Scaffold306	265284	GG	AA	1946936608
SNP_P4_122546_265321	NW_004515817.1	Scaffold306	265321	GG	AA	1946936610
SNP_P4_122547_269242	NW_004515817.1	Scaffold306	269242	GG	CC	1946936612
SNP_P4_122548_269813	NW_004515817.1	Scaffold306	269813	TT	AA	1946936614
SNP_P4_122549_269941	NW_004515817.1	Scaffold306	269941	TT	AA	1946936616
SNP_P4_122550_269950	NW_004515817.1	Scaffold306	269950	TT	CC	1946936618
SNP_P4_122551_270236	NW_004515817.1	Scaffold306	270236	TT	CC	1946936620
SNP_P4_122552_273551	NW_004515817.1	Scaffold306	273551	CC	GG	1946936622
SNP_P4_122553_273569	NW_004515817.1	Scaffold306	273569	GG	AA	1946936624
SNP_P4_122554_273641	NW_004515817.1	Scaffold306	273641	AA	CC	1946936626
SNP_P4_122555_273934	NW_004515817.1	Scaffold306	273934	AA	GG	1946936628
SNP_P4_122556_277284	NW_004515817.1	Scaffold306	277284	CC	TT	1946936630
SNP_P4_122557_278306	NW_004515817.1	Scaffold306	278306	CC	TT	1946936632
SNP_P4_122558_280297	NW_004515817.1	Scaffold306	280297	GG	CC	1946936634
SNP_P4_122559_289953	NW_004515817.1	Scaffold306	289953	CC	TT	1946936636
SNP_P4_122561_296047	NW_004515817.1	Scaffold306	296047	AA	GG	1946936638
SNP_P4_122562_302242	NW_004515817.1	Scaffold306	302242	AA	GG	1946936640
SNP_P4_122563_302453	NW_004515817.1	Scaffold306	302453	GG	AA	1946936642
SNP_P4_122564_309313	NW_004515817.1	Scaffold306	309313	GG	CC	1946936644
SNP_P4_122565_309324	NW_004515817.1	Scaffold306	309324	TT	CC	1946936646
SNP_P4_122566_309527	NW_004515817.1	Scaffold306	309527	GG	AA	1946936648
SNP_P4_122567_310036	NW_004515817.1	Scaffold306	310036	AA	GG	1946936650
SNP_P4_122568_325301	NW_004515817.1	Scaffold306	325301	GG	TT	1946936652
SNP_P4_122569_325480	NW_004515817.1	Scaffold306	325480	CC	TT	1946936654
SNP_P4_122571_325671	NW_004515817.1	Scaffold306	325671	AA	GG	1946936656
SNP_P4_122573_325977	NW_004515817.1	Scaffold306	325977	GG	CC	1946936658
SNP_P4_122574_326050	NW_004515817.1	Scaffold306	326050	GG	CC	1946936660
SNP_P4_122575_331680	NW_004515817.1	Scaffold306	331680	GG	AA	1946936662
SNP_P4_122576_334394	NW_004515817.1	Scaffold306	334394	GG	TT	1946936664
SNP_P4_122577_336046	NW_004515817.1	Scaffold306	336046	TT	CC	1946936666
SNP_P4_122578_336117	NW_004515817.1	Scaffold306	336117	AA	GG	1946936668

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_122581_337665	NW_004515817.1	Scaffold306	337665	TT	GG	1946936672
SNP_P4_122582_337674	NW_004515817.1	Scaffold306	337674	AA	GG	1946936675
SNP_P4_122583_337676	NW_004515817.1	Scaffold306	337676	AA	TT	1946936677
SNP_P4_122584_339833	NW_004515817.1	Scaffold306	339833	CC	AA	1946936679
SNP_P4_122585_340175	NW_004515817.1	Scaffold306	340175	TT	AA	1946936681
SNP_P4_122586_341928	NW_004515817.1	Scaffold306	341928	AA	GG	1946936683
SNP_P4_122587_343061	NW_004515817.1	Scaffold306	343061	AA	GG	1946936685
SNP_P4_122588_343467	NW_004515817.1	Scaffold306	343467	CC	AA	1946936687
SNP_P4_122589_345570	NW_004515817.1	Scaffold306	345570	GG	AA	1946936689
SNP_P4_122590_346377	NW_004515817.1	Scaffold306	346377	CC	AA	1946936691
SNP_P4_122591_348644	NW_004515817.1	Scaffold306	348644	AA	GG	1946936693
SNP_P4_122592_353277	NW_004515817.1	Scaffold306	353277	GG	AA	1946936695
SNP_P4_122593_354632	NW_004515817.1	Scaffold306	354632	TT	CC	1946936697
SNP_P4_122594_354680	NW_004515817.1	Scaffold306	354680	CC	AA	1946936699
SNP_P4_122595_357263	NW_004515817.1	Scaffold306	357263	AA	GG	1946936701
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SNP_P4_122597_357286	NW_004515817.1	Scaffold306	357286	AA	GG	1946936705
SNP_P4_122598_358238	NW_004515817.1	Scaffold306	358238	TT	GG	1946936707
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SNP_P4_122603_371586	NW_004515817.1	Scaffold306	371586	TT	CC	1946936717
SNP_P4_122604_371798	NW_004515817.1	Scaffold306	371798	TT	GG	1946936719
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SNP_P4_122609_380840	NW_004515817.1	Scaffold306	380840	GG	AA	1946936729
SNP_P4_122610_382484	NW_004515817.1	Scaffold306	382484	TT	AA	1946936731
SNP_P4_122611_383182	NW_004515817.1	Scaffold306	383182	GG	AA	1946936733
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SNP_P4_122613_410060	NW_004515817.1	Scaffold306	410060	TT	AA	1946936737
SNP_P4_122614_416660	NW_004515817.1	Scaffold306	416660	AA	TT	1946936739
SNP_P4_122615_418245	NW_004515817.1	Scaffold306	418245	AA	CC	1946936741
SNP_P4_122616_418270	NW_004515817.1	Scaffold306	418270	AA	TT	1946936743
SNP_P4_122617_418272	NW_004515817.1	Scaffold306	418272	CC	TT	1946936745
SNP_P4_122618_418278	NW_004515817.1	Scaffold306	418278	AA	GG	1946936747
SNP_P4_122619_418287	NW_004515817.1	Scaffold306	418287	AA	TT	1946936749
SNP_P4_122620_418509	NW_004515817.1	Scaffold306	418509	CC	AA	1946936751
SNP_P4_122621_418614	NW_004515817.1	Scaffold306	418614	AA	CC	1946936753

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_122624_420109	NW_004515817.1	Scaffold306	420109	GG	TT	1946936759
SNP_P4_122625_420373	NW_004515817.1	Scaffold306	420373	GG	AA	1946936761
SNP_P4_122626_421936	NW_004515817.1	Scaffold306	421936	CC	AA	1946936763
SNP_P4_122627_421938	NW_004515817.1	Scaffold306	421938	TT	CC	1946936765
SNP_P4_122629_424731	NW_004515817.1	Scaffold306	424731	CC	AA	1946936767
SNP_P4_122630_445440	NW_004515817.1	Scaffold306	445440	AA	GG	1946936769
SNP_P4_122631_446988	NW_004515817.1	Scaffold306	446988	GG	TT	1946936771
SNP_P4_122632_447316	NW_004515817.1	Scaffold306	447316	TT	CC	1946936773
SNP_P4_122633_447401	NW_004515817.1	Scaffold306	447401	TT	CC	1946936775
SNP_P4_122634_447664	NW_004515817.1	Scaffold306	447664	AA	GG	1946936777
SNP_P4_122635_447675	NW_004515817.1	Scaffold306	447675	GG	CC	1946936779
SNP_P4_122636_448150	NW_004515817.1	Scaffold306	448150	CC	AA	1946936781
SNP_P4_122637_449488	NW_004515817.1	Scaffold306	449488	TT	CC	1946936783
SNP_P4_122638_454284	NW_004515817.1	Scaffold306	454284	CC	TT	1946936785
SNP_P4_122639_455068	NW_004515817.1	Scaffold306	455068	CC	GG	1946936787
SNP_P4_122640_456956	NW_004515817.1	Scaffold306	456956	GG	AA	1946936789
SNP_P4_122641_457843	NW_004515817.1	Scaffold306	457843	GG	AA	1946936791
SNP_P4_122642_459407	NW_004515817.1	Scaffold306	459407	AA	GG	1946936793
SNP_P4_122643_459521	NW_004515817.1	Scaffold306	459521	TT	CC	1946936795
SNP_P4_122644_464354	NW_004515817.1	Scaffold306	464354	GG	TT	1946936797
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SNP_P4_122649_468110	NW_004515817.1	Scaffold306	468110	TT	CC	1946936807
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SNP_P4_122651_475924	NW_004515817.1	Scaffold306	475924	CC	AA	1946936811
SNP_P4_122653_478909	NW_004515817.1	Scaffold306	478909	TT	AA	1946936813
SNP_P4_122654_479307	NW_004515817.1	Scaffold306	479307	CC	AA	1946936815
SNP_P4_122655_479347	NW_004515817.1	Scaffold306	479347	CC	TT	1946936817
SNP_P4_122656_480260	NW_004515817.1	Scaffold306	480260	GG	TT	1946936819
SNP_P4_122657_481570	NW_004515817.1	Scaffold306	481570	GG	AA	1946936821
SNP_P4_122658_481873	NW_004515817.1	Scaffold306	481873	GG	AA	1946936823
SNP_P4_122660_482440	NW_004515817.1	Scaffold306	482440	TT	CC	1946936825
SNP_P4_122661_482715	NW_004515817.1	Scaffold306	482715	AA	TT	1946936827
SNP_P4_122662_482736	NW_004515817.1	Scaffold306	482736	CC	TT	1946936829
SNP_P4_122663_482775	NW_004515817.1	Scaffold306	482775	TT	AA	1946936831
SNP_P4_122664_483459	NW_004515817.1	Scaffold306	483459	GG	TT	1946936833
SNP_P4_122665_483523	NW_004515817.1	Scaffold306	483523	TT	CC	1946936835
SNP_P4_122666_484783	NW_004515817.1	Scaffold306	484783	GG	AA	1946936837

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_122668_487134	NW_004515817.1	Scaffold306	487134	GG	AA	1946936840
SNP_P4_122669_490282	NW_004515817.1	Scaffold306	490282	GG	AA	1946936842
SNP_P4_122670_490308	NW_004515817.1	Scaffold306	490308	GG	CC	1946936844
SNP_P4_122671_38803	NW_004515818.1	Scaffold308_2	38803	TT	AA	1946936846
SNP_P4_122672_44123	NW_004515818.1	Scaffold308_2	44123	AA	CC	1946936848
SNP_P4_122673_44378	NW_004515818.1	Scaffold308_2	44378	CC	AA	1946936850
SNP_P4_122674_44438	NW_004515818.1	Scaffold308_2	44438	AA	TT	1946936852
SNP_P4_122675_67833	NW_004515818.1	Scaffold308_2	67833	CC	AA	1946936854
SNP_P4_122676_69929	NW_004515818.1	Scaffold308_2	69929	GG	AA	1946936856
SNP_P4_122677_69960	NW_004515818.1	Scaffold308_2	69960	TT	GG	1946936858
SNP_P4_122679_76110	NW_004515818.1	Scaffold308_2	76110	CC	TT	1946936860
SNP_P4_122680_76135	NW_004515818.1	Scaffold308_2	76135	AA	TT	1946936862
SNP_P4_122681_76267	NW_004515818.1	Scaffold308_2	76267	AA	GG	1946936864
SNP_P4_122682_76415	NW_004515818.1	Scaffold308_2	76415	AA	GG	1946936866
SNP_P4_122684_79711	NW_004515818.1	Scaffold308_2	79711	CC	GG	1946936868
SNP_P4_122685_79713	NW_004515818.1	Scaffold308_2	79713	AA	GG	1946936870
SNP_P4_122686_79756	NW_004515818.1	Scaffold308_2	79756	CC	TT	1946936872
SNP_P4_122688_84021	NW_004515818.1	Scaffold308_2	84021	CC	AA	1946936874
SNP_P4_122689_84096	NW_004515818.1	Scaffold308_2	84096	AA	GG	1946936876
SNP_P4_122690_84622	NW_004515818.1	Scaffold308_2	84622	TT	AA	1946936878
SNP_P4_122691_84675	NW_004515818.1	Scaffold308_2	84675	CC	TT	1946936880
SNP_P4_122692_84683	NW_004515818.1	Scaffold308_2	84683	GG	AA	1946936882
SNP_P4_122693_84767	NW_004515818.1	Scaffold308_2	84767	TT	CC	1946936884
SNP_P4_122694_84848	NW_004515818.1	Scaffold308_2	84848	AA	GG	1946936886
SNP_P4_122695_84889	NW_004515818.1	Scaffold308_2	84889	TT	AA	1946936888
SNP_P4_122696_85042	NW_004515818.1	Scaffold308_2	85042	GG	AA	1946936890
SNP_P4_122698_85441	NW_004515818.1	Scaffold308_2	85441	TT	AA	1946936892
SNP_P4_122699_85514	NW_004515818.1	Scaffold308_2	85514	TT	AA	1946936894
SNP_P4_122701_85716	NW_004515818.1	Scaffold308_2	85716	TT	AA	1946936896
SNP_P4_122702_85720	NW_004515818.1	Scaffold308_2	85720	CC	TT	1946936898
SNP_P4_122703_85726	NW_004515818.1	Scaffold308_2	85726	GG	AA	1946936900
SNP_P4_122704_93009	NW_004515818.1	Scaffold308_2	93009	CC	AA	1946936902
SNP_P4_122705_96857	NW_004515818.1	Scaffold308_2	96857	GG	AA	1946936904
SNP_P4_122706_101270	NW_004515818.1	Scaffold308_2	101270	GG	AA	1946936907
SNP_P4_122707_103077	NW_004515818.1	Scaffold308_2	103077	GG	TT	1946936909
SNP_P4_122708_103090	NW_004515818.1	Scaffold308_2	103090	GG	AA	1946936911
SNP_P4_122709_103122	NW_004515818.1	Scaffold308_2	103122	TT	CC	1946936913
SNP_P4_122710_104727	NW_004515818.1	Scaffold308_2	104727	GG	CC	1946936915
SNP_P4_122712_123506	NW_004515818.1	Scaffold308_2	123506	TT	CC	1946936917
SNP_P4_122713_132206	NW_004515818.1	Scaffold308_2	132206	AA	GG	1946936919
SNP_P4_122714_173909	NW_004515818.1	Scaffold308_2	173909	AA	GG	1946936921
SNP_P4_122715_173974	NW_004515818.1	Scaffold308_2	173974	TT	CC	1946936923

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_122717_174292	NW_004515818.1	Scaffold308_2	174292	AA	GG	1946936927
SNP_P4_122718_174335	NW_004515818.1	Scaffold308_2	174335	TT	AA	1946936929
SNP_P4_122719_208210	NW_004515818.1	Scaffold308_2	208210	TT	CC	1946936931
SNP_P4_122721_212817	NW_004515818.1	Scaffold308_2	212817	TT	CC	1946936933
SNP_P4_122722_246841	NW_004515818.1	Scaffold308_2	246841	GG	TT	1946936935
SNP_P4_122723_246929	NW_004515818.1	Scaffold308_2	246929	AA	CC	1946936937
SNP_P4_122724_262432	NW_004515818.1	Scaffold308_2	262432	GG	TT	1946936939
SNP_P4_122725_262469	NW_004515818.1	Scaffold308_2	262469	AA	GG	1946936941
SNP_P4_122728_263428	NW_004515818.1	Scaffold308_2	263428	AA	GG	1946936943
SNP_P4_122729_263534	NW_004515818.1	Scaffold308_2	263534	GG	CC	1946936945
SNP_P4_122730_263546	NW_004515818.1	Scaffold308_2	263546	CC	TT	1946936947
SNP_P4_122731_263580	NW_004515818.1	Scaffold308_2	263580	AA	GG	1946936949
SNP_P4_122732_263596	NW_004515818.1	Scaffold308_2	263596	TT	CC	1946936951
SNP_P4_122733_263630	NW_004515818.1	Scaffold308_2	263630	CC	GG	1946936953
SNP_P4_122734_263639	NW_004515818.1	Scaffold308_2	263639	GG	AA	1946936955
SNP_P4_122735_263649	NW_004515818.1	Scaffold308_2	263649	CC	AA	1946936958
SNP_P4_122736_263650	NW_004515818.1	Scaffold308_2	263650	TT	CC	1946936960
SNP_P4_122737_263675	NW_004515818.1	Scaffold308_2	263675	TT	CC	1946936962
SNP_P4_122738_263677	NW_004515818.1	Scaffold308_2	263677	CC	TT	1946936964
SNP_P4_122739_264340	NW_004515818.1	Scaffold308_2	264340	AA	GG	1946936966
SNP_P4_122740_264341	NW_004515818.1	Scaffold308_2	264341	CC	AA	1946936968
SNP_P4_122742_264371	NW_004515818.1	Scaffold308_2	264371	GG	TT	1946936970
SNP_P4_122744_264419	NW_004515818.1	Scaffold308_2	264419	AA	GG	1946936972
SNP_P4_122745_264472	NW_004515818.1	Scaffold308_2	264472	AA	TT	1946936974
SNP_P4_122746_264499	NW_004515818.1	Scaffold308_2	264499	GG	CC	1946936976
SNP_P4_122748_264557	NW_004515818.1	Scaffold308_2	264557	AA	GG	1946936978
SNP_P4_122749_264589	NW_004515818.1	Scaffold308_2	264589	TT	AA	1946936980
SNP_P4_122750_264602	NW_004515818.1	Scaffold308_2	264602	AA	GG	1946936982
SNP_P4_122752_264880	NW_004515818.1	Scaffold308_2	264880	CC	AA	1946936984
SNP_P4_122753_264885	NW_004515818.1	Scaffold308_2	264885	TT	AA	1946936986
SNP_P4_122754_264912	NW_004515818.1	Scaffold308_2	264912	TT	CC	1946936988
SNP_P4_122755_264956	NW_004515818.1	Scaffold308_2	264956	AA	GG	1946936990
SNP_P4_122756_265008	NW_004515818.1	Scaffold308_2	265008	TT	CC	1946936992
SNP_P4_122757_265368	NW_004515818.1	Scaffold308_2	265368	GG	AA	1946936995
SNP_P4_122758_265395	NW_004515818.1	Scaffold308_2	265395	TT	CC	1946936997
SNP_P4_122759_265423	NW_004515818.1	Scaffold308_2	265423	AA	GG	1946936999
SNP_P4_122761_265767	NW_004515818.1	Scaffold308_2	265767	TT	CC	1946937001
SNP_P4_122762_265820	NW_004515818.1	Scaffold308_2	265820	TT	AA	1946937003
SNP_P4_122763_265837	NW_004515818.1	Scaffold308_2	265837	TT	CC	1946937005
SNP_P4_122764_265963	NW_004515818.1	Scaffold308_2	265963	TT	CC	1946937007
SNP_P4_122765_266021	NW_004515818.1	Scaffold308_2	266021	TT	CC	1946937009

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_122768_266372	NW_004515818.1	Scaffold308_2	266372	TT	AA	1946937013
SNP_P4_122769_266380	NW_004515818.1	Scaffold308_2	266380	TT	CC	1946937015
SNP_P4_122770_267031	NW_004515818.1	Scaffold308_2	267031	AA	GG	1946937017
SNP_P4_122771_267037	NW_004515818.1	Scaffold308_2	267037	TT	CC	1946937019
SNP_P4_122772_268441	NW_004515818.1	Scaffold308_2	268441	GG	AA	1946937021
SNP_P4_122773_307734	NW_004515818.1	Scaffold308_2	307734	GG	AA	1946937023
SNP_P4_122774_320736	NW_004515818.1	Scaffold308_2	320736	AA	GG	1946937025
SNP_P4_122775_325474	NW_004515818.1	Scaffold308_2	325474	TT	AA	1946937027
SNP_P4_122776_325584	NW_004515818.1	Scaffold308_2	325584	CC	TT	1946937029
SNP_P4_122777_325598	NW_004515818.1	Scaffold308_2	325598	CC	TT	1946937031
SNP_P4_122778_357185	NW_004515818.1	Scaffold308_2	357185	TT	CC	1946937033
SNP_P4_122779_357229	NW_004515818.1	Scaffold308_2	357229	AA	GG	1946937035
SNP_P4_122780_358726	NW_004515818.1	Scaffold308_2	358726	AA	GG	1946937037
SNP_P4_122781_6699	NW_004515819.1	Scaffold310	6699	GG	CC	1946937039
SNP_P4_122782_6739	NW_004515819.1	Scaffold310	6739	GG	TT	1946937041
SNP_P4_122783_6792	NW_004515819.1	Scaffold310	6792	TT	CC	1946937043
SNP_P4_122784_7429	NW_004515819.1	Scaffold310	7429	CC	TT	1946937045
SNP_P4_122785_7456	NW_004515819.1	Scaffold310	7456	TT	CC	1946937047
SNP_P4_122786_7515	NW_004515819.1	Scaffold310	7515	TT	CC	1946937049
SNP_P4_122787_7564	NW_004515819.1	Scaffold310	7564	AA	CC	1946937051
SNP_P4_122788_7565	NW_004515819.1	Scaffold310	7565	TT	CC	1946937053
SNP_P4_122789_7765	NW_004515819.1	Scaffold310	7765	CC	TT	1946937055
SNP_P4_122790_7801	NW_004515819.1	Scaffold310	7801	GG	AA	1946937057
SNP_P4_122791_7857	NW_004515819.1	Scaffold310	7857	GG	CC	1946937059
SNP_P4_122792_7932	NW_004515819.1	Scaffold310	7932	TT	AA	1946937062
SNP_P4_122793_8358	NW_004515819.1	Scaffold310	8358	TT	GG	1946937064
SNP_P4_122794_12364	NW_004515819.1	Scaffold310	12364	GG	TT	1946937065
SNP_P4_122795_12478	NW_004515819.1	Scaffold310	12478	GG	AA	1946937067
SNP_P4_122796_23962	NW_004515819.1	Scaffold310	23962	CC	TT	1946937069
SNP_P4_122797_24047	NW_004515819.1	Scaffold310	24047	TT	AA	1946937071
SNP_P4_122798_24096	NW_004515819.1	Scaffold310	24096	GG	TT	1946937073
SNP_P4_122799_24101	NW_004515819.1	Scaffold310	24101	AA	TT	1946937075
SNP_P4_122800_24182	NW_004515819.1	Scaffold310	24182	TT	CC	1946937077
SNP_P4_122801_24201	NW_004515819.1	Scaffold310	24201	GG	AA	1946937079
SNP_P4_122802_25854	NW_004515819.1	Scaffold310	25854	AA	GG	1946937081
SNP_P4_122803_26171	NW_004515819.1	Scaffold310	26171	TT	AA	1946937083
SNP_P4_122804_26214	NW_004515819.1	Scaffold310	26214	CC	TT	1946937085
SNP_P4_122805_26230	NW_004515819.1	Scaffold310	26230	AA	GG	1946937087
SNP_P4_122806_26294	NW_004515819.1	Scaffold310	26294	GG	AA	1946937089
SNP_P4_122807_33494	NW_004515819.1	Scaffold310	33494	GG	AA	1946937091
SNP_P4_122808_34773	NW_004515819.1	Scaffold310	34773	AA	GG	1946937093

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_122810_37948	NW_004515819.1	Scaffold310	37948	TT	AA	1946937097
SNP_P4_122811_38018	NW_004515819.1	Scaffold310	38018	AA	GG	1946937099
SNP_P4_122812_38250	NW_004515819.1	Scaffold310	38250	TT	AA	1946937101
SNP_P4_122813_38268	NW_004515819.1	Scaffold310	38268	AA	TT	1946937104
SNP_P4_122814_38292	NW_004515819.1	Scaffold310	38292	GG	AA	1946937106
SNP_P4_122815_39519	NW_004515819.1	Scaffold310	39519	TT	CC	1946937108
SNP_P4_122816_39554	NW_004515819.1	Scaffold310	39554	TT	AA	1946937110
SNP_P4_122818_39835	NW_004515819.1	Scaffold310	39835	TT	AA	1946937112
SNP_P4_122819_45149	NW_004515819.1	Scaffold310	45149	AA	GG	1946937114
SNP_P4_122820_1479	NW_004515820.1	Scaffold311	1479	TT	GG	1946937116
SNP_P4_122821_1515	NW_004515820.1	Scaffold311	1515	TT	GG	1946937118
SNP_P4_122822_4226	NW_004515820.1	Scaffold311	4226	AA	GG	1946937120
SNP_P4_122823_4454	NW_004515820.1	Scaffold311	4454	AA	GG	1946937122
SNP_P4_122824_8707	NW_004515820.1	Scaffold311	8707	AA	TT	1946937124
SNP_P4_122825_8710	NW_004515820.1	Scaffold311	8710	AA	CC	1946937126
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SNP_P4_122827_9856	NW_004515820.1	Scaffold311	9856	TT	GG	1946937130
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SNP_P4_122832_21358	NW_004515820.1	Scaffold311	21358	TT	CC	1946937140
SNP_P4_122833_21367	NW_004515820.1	Scaffold311	21367	AA	CC	1946937142
SNP_P4_122834_22771	NW_004515820.1	Scaffold311	22771	AA	TT	1946937144
SNP_P4_122836_24003	NW_004515820.1	Scaffold311	24003	GG	CC	1946937146
SNP_P4_122837_24045	NW_004515820.1	Scaffold311	24045	CC	GG	1946937148
SNP_P4_122838_24053	NW_004515820.1	Scaffold311	24053	GG	CC	1946937150
SNP_P4_122839_24400	NW_004515820.1	Scaffold311	24400	TT	CC	1946937152
SNP_P4_122840_24533	NW_004515820.1	Scaffold311	24533	TT	GG	1946937154
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SNP_P4_122844_25197	NW_004515820.1	Scaffold311	25197	CC	GG	1946937162
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SNP_P4_122848_43377	NW_004515820.1	Scaffold311	43377	AA	TT	1946937168
SNP_P4_122849_43449	NW_004515820.1	Scaffold311	43449	AA	TT	1946937170
SNP_P4_122850_43474	NW_004515820.1	Scaffold311	43474	AA	CC	1946937172
SNP_P4_122851_43475	NW_004515820.1	Scaffold311	43475	GG	AA	1946937174
SNP_P4_122852_43495	NW_004515820.1	Scaffold311	43495	CC	AA	1946937176
SNP_P4_122853_43689	NW_004515820.1	Scaffold311	43689	AA	CC	1946937178

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_122855_43821	NW_004515820.1	Scaffold311	43821	TT	GG	1946937182
SNP_P4_122856_43883	NW_004515820.1	Scaffold311	43883	AA	CC	1946937185
SNP_P4_122857_44003	NW_004515820.1	Scaffold311	44003	GG	TT	1946937187
SNP_P4_122858_44026	NW_004515820.1	Scaffold311	44026	TT	CC	1946937189
SNP_P4_122859_44053	NW_004515820.1	Scaffold311	44053	GG	AA	1946937191
SNP_P4_122860_44080	NW_004515820.1	Scaffold311	44080	GG	AA	1946937193
SNP_P4_122861_60595	NW_004515820.1	Scaffold311	60595	GG	TT	1946937195
SNP_P4_122862_60609	NW_004515820.1	Scaffold311	60609	CC	TT	1946937197
SNP_P4_122863_60610	NW_004515820.1	Scaffold311	60610	TT	GG	1946937199
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SNP_P4_122865_60612	NW_004515820.1	Scaffold311	60612	GG	AA	1946937203
SNP_P4_122866_60614	NW_004515820.1	Scaffold311	60614	TT	GG	1946937205
SNP_P4_122867_60618	NW_004515820.1	Scaffold311	60618	AA	CC	1946937207
SNP_P4_122868_63983	NW_004515820.1	Scaffold311	63983	AA	GG	1946937209
SNP_P4_122869_74310	NW_004515820.1	Scaffold311	74310	TT	CC	1946937211
SNP_P4_122870_74656	NW_004515820.1	Scaffold311	74656	TT	GG	1946937213
SNP_P4_122871_83249	NW_004515820.1	Scaffold311	83249	CC	TT	1946937215
SNP_P4_122872_90314	NW_004515820.1	Scaffold311	90314	GG	TT	1946937217
SNP_P4_122873_90320	NW_004515820.1	Scaffold311	90320	TT	AA	1946937219
SNP_P4_122874_90345	NW_004515820.1	Scaffold311	90345	AA	CC	1946937221
SNP_P4_122875_90583	NW_004515820.1	Scaffold311	90583	GG	TT	1946937223
SNP_P4_122876_90600	NW_004515820.1	Scaffold311	90600	AA	CC	1946937225
SNP_P4_122877_90674	NW_004515820.1	Scaffold311	90674	AA	CC	1946937227
SNP_P4_122878_90675	NW_004515820.1	Scaffold311	90675	AA	TT	1946937229
SNP_P4_122879_90714	NW_004515820.1	Scaffold311	90714	CC	GG	1946937231
SNP_P4_122880_90960	NW_004515820.1	Scaffold311	90960	AA	CC	1946937233
SNP_P4_122881_91595	NW_004515820.1	Scaffold311	91595	GG	AA	1946937235
SNP_P4_122882_91626	NW_004515820.1	Scaffold311	91626	GG	TT	1946937236
SNP_P4_122883_91629	NW_004515820.1	Scaffold311	91629	TT	CC	1946937237
SNP_P4_122885_92000	NW_004515820.1	Scaffold311	92000	GG	CC	1946937238
SNP_P4_122886_98091	NW_004515820.1	Scaffold311	98091	AA	GG	1946937239
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SNP_P4_122889_98107	NW_004515820.1	Scaffold311	98107	TT	AA	1946937243
SNP_P4_122890_98112	NW_004515820.1	Scaffold311	98112	AA	TT	1946937245
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SNP_P4_122892_98143	NW_004515820.1	Scaffold311	98143	GG	TT	1946937249
SNP_P4_122893_102239	NW_004515820.1	Scaffold311	102239	AA	CC	1946937251
SNP_P4_122894_102245	NW_004515820.1	Scaffold311	102245	CC	AA	1946937253
SNP_P4_122895_102424	NW_004515820.1	Scaffold311	102424	AA	CC	1946937255
SNP_P4_122896_102433	NW_004515820.1	Scaffold311	102433	AA	TT	1946937257

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_122898_123354	NW_004515820.1	Scaffold311	123354	AA	TT	1946937261
SNP_P4_122899_123536	NW_004515820.1	Scaffold311	123536	AA	TT	1946937263
SNP_P4_122900_123575	NW_004515820.1	Scaffold311	123575	TT	CC	1946937265
SNP_P4_122901_123601	NW_004515820.1	Scaffold311	123601	AA	TT	1946937267
SNP_P4_122902_123603	NW_004515820.1	Scaffold311	123603	AA	CC	1946937269
SNP_P4_122903_123609	NW_004515820.1	Scaffold311	123609	TT	CC	1946937271
SNP_P4_122904_123694	NW_004515820.1	Scaffold311	123694	GG	AA	1946937273
SNP_P4_122905_124735	NW_004515820.1	Scaffold311	124735	TT	GG	1946937275
SNP_P4_122906_124769	NW_004515820.1	Scaffold311	124769	AA	TT	1946937277
SNP_P4_122907_124777	NW_004515820.1	Scaffold311	124777	GG	AA	1946937279
SNP_P4_122908_129354	NW_004515820.1	Scaffold311	129354	TT	CC	1946937281
SNP_P4_122909_129375	NW_004515820.1	Scaffold311	129375	TT	AA	1946937283
SNP_P4_122910_129376	NW_004515820.1	Scaffold311	129376	TT	AA	1946937285
SNP_P4_122912_129706	NW_004515820.1	Scaffold311	129706	CC	TT	1946937287
SNP_P4_122913_131311	NW_004515820.1	Scaffold311	131311	CC	TT	1946937289
SNP_P4_122914_131355	NW_004515820.1	Scaffold311	131355	GG	CC	1946937291
SNP_P4_122916_131634	NW_004515820.1	Scaffold311	131634	TT	CC	1946937293
SNP_P4_122917_131668	NW_004515820.1	Scaffold311	131668	TT	CC	1946937295
SNP_P4_122918_131669	NW_004515820.1	Scaffold311	131669	GG	AA	1946937297
SNP_P4_122919_131866	NW_004515820.1	Scaffold311	131866	AA	GG	1946937299
SNP_P4_122920_131972	NW_004515820.1	Scaffold311	131972	CC	GG	1946937301
SNP_P4_122921_131977	NW_004515820.1	Scaffold311	131977	CC	TT	1946937303
SNP_P4_122922_134995	NW_004515820.1	Scaffold311	134995	CC	GG	1946937305
SNP_P4_122923_135019	NW_004515820.1	Scaffold311	135019	AA	CC	1946937307
SNP_P4_122925_160278	NW_004515820.1	Scaffold311	160278	AA	CC	1946937309
SNP_P4_122926_160279	NW_004515820.1	Scaffold311	160279	CC	AA	1946937311
SNP_P4_122927_160324	NW_004515820.1	Scaffold311	160324	CC	TT	1946937313
SNP_P4_122928_160851	NW_004515820.1	Scaffold311	160851	GG	TT	1946937315
SNP_P4_122929_160879	NW_004515820.1	Scaffold311	160879	CC	TT	1946937317
SNP_P4_122930_160880	NW_004515820.1	Scaffold311	160880	TT	AA	1946937319
SNP_P4_122931_160979	NW_004515820.1	Scaffold311	160979	GG	CC	1946937321
SNP_P4_122932_160986	NW_004515820.1	Scaffold311	160986	CC	AA	1946937323
SNP_P4_122933_169908	NW_004515820.1	Scaffold311	169908	GG	AA	1946937325
SNP_P4_122934_169970	NW_004515820.1	Scaffold311	169970	TT	CC	1946937327
SNP_P4_122935_180052	NW_004515820.1	Scaffold311	180052	TT	CC	1946937329
SNP_P4_122936_180563	NW_004515820.1	Scaffold311	180563	TT	GG	1946937331
SNP_P4_122937_180569	NW_004515820.1	Scaffold311	180569	AA	CC	1946937333
SNP_P4_122938_180656	NW_004515820.1	Scaffold311	180656	AA	GG	1946937335
SNP_P4_122939_180742	NW_004515820.1	Scaffold311	180742	TT	CC	1946937337
SNP_P4_122940_180906	NW_004515820.1	Scaffold311	180906	GG	AA	1946937339
SNP_P4_122941_180936	NW_004515820.1	Scaffold311	180936	TT	CC	1946937341

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_122943_180966	NW_004515820.1	Scaffold311	180966	CC	TT	1946937345
SNP_P4_122944_180984	NW_004515820.1	Scaffold311	180984	TT	CC	1946937347
SNP_P4_122945_180997	NW_004515820.1	Scaffold311	180997	AA	TT	1946937349
SNP_P4_122946_181014	NW_004515820.1	Scaffold311	181014	GG	AA	1946937351
SNP_P4_122947_181017	NW_004515820.1	Scaffold311	181017	CC	TT	1946937353
SNP_P4_122948_181029	NW_004515820.1	Scaffold311	181029	AA	GG	1946937355
SNP_P4_122949_181049	NW_004515820.1	Scaffold311	181049	GG	AA	1946937357
SNP_P4_122950_181081	NW_004515820.1	Scaffold311	181081	TT	CC	1946937359
SNP_P4_122951_181086	NW_004515820.1	Scaffold311	181086	TT	CC	1946937361
SNP_P4_122952_181095	NW_004515820.1	Scaffold311	181095	GG	AA	1946937363
SNP_P4_122953_186108	NW_004515820.1	Scaffold311	186108	AA	TT	1946937365
SNP_P4_122954_186167	NW_004515820.1	Scaffold311	186167	CC	TT	1946937367
SNP_P4_122955_199672	NW_004515820.1	Scaffold311	199672	AA	TT	1946937369
SNP_P4_122956_199770	NW_004515820.1	Scaffold311	199770	CC	TT	1946937371
SNP_P4_122957_205852	NW_004515820.1	Scaffold311	205852	TT	CC	1946937373
SNP_P4_122958_205874	NW_004515820.1	Scaffold311	205874	TT	AA	1946937375
SNP_P4_122959_206331	NW_004515820.1	Scaffold311	206331	CC	AA	1946937377
SNP_P4_122961_3213	NW_004515822.1	Scaffold313	3213	GG	CC	1946937379
SNP_P4_122962_3262	NW_004515822.1	Scaffold313	3262	CC	AA	1946937381
SNP_P4_122963_4190	NW_004515822.1	Scaffold313	4190	TT	GG	1946937383
SNP_P4_122964_4320	NW_004515822.1	Scaffold313	4320	CC	TT	1946937385
SNP_P4_122965_4760	NW_004515822.1	Scaffold313	4760	AA	GG	1946937387
SNP_P4_122966_4966	NW_004515822.1	Scaffold313	4966	AA	TT	1946937389
SNP_P4_122967_6130	NW_004515822.1	Scaffold313	6130	GG	TT	1946937391
SNP_P4_122968_6239	NW_004515822.1	Scaffold313	6239	TT	GG	1946937393
SNP_P4_122969_6274	NW_004515822.1	Scaffold313	6274	CC	GG	1946937395
SNP_P4_122970_6446	NW_004515822.1	Scaffold313	6446	AA	TT	1946937397
SNP_P4_122971_6447	NW_004515822.1	Scaffold313	6447	CC	AA	1946937400
SNP_P4_122972_6575	NW_004515822.1	Scaffold313	6575	TT	GG	1946937402
SNP_P4_122973_6723	NW_004515822.1	Scaffold313	6723	AA	CC	1946937404
SNP_P4_122974_6733	NW_004515822.1	Scaffold313	6733	CC	TT	1946937406
SNP_P4_122975_6774	NW_004515822.1	Scaffold313	6774	AA	GG	1946937408
SNP_P4_122976_6841	NW_004515822.1	Scaffold313	6841	AA	TT	1946937410
SNP_P4_122977_7186	NW_004515822.1	Scaffold313	7186	TT	CC	1946937412
SNP_P4_122978_7441	NW_004515822.1	Scaffold313	7441	AA	GG	1946937414
SNP_P4_122979_10570	NW_004515822.1	Scaffold313	10570	TT	CC	1946937416
SNP_P4_122980_10582	NW_004515822.1	Scaffold313	10582	GG	AA	1946937418
SNP_P4_122981_10586	NW_004515822.1	Scaffold313	10586	AA	TT	1946937420
SNP_P4_122983_11912	NW_004515822.1	Scaffold313	11912	AA	TT	1946937422
SNP_P4_122984_1662	NW_004515823.1	Scaffold314	1662	GG	AA	1946937424
SNP_P4_122986_2278	NW_004515823.1	Scaffold314	2278	CC	TT	1946937426

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_122988_22686	NW_004515823.1	Scaffold314	22686	AA	GG	1946937430
SNP_P4_122989_22699	NW_004515823.1	Scaffold314	22699	TT	CC	1946937432
SNP_P4_122990_22706	NW_004515823.1	Scaffold314	22706	CC	AA	1946937434
SNP_P4_122991_22723	NW_004515823.1	Scaffold314	22723	GG	AA	1946937436
SNP_P4_122992_22765	NW_004515823.1	Scaffold314	22765	TT	CC	1946937439
SNP_P4_122993_22786	NW_004515823.1	Scaffold314	22786	GG	CC	1946937441
SNP_P4_122994_22813	NW_004515823.1	Scaffold314	22813	TT	CC	1946937446
SNP_P4_122995_22831	NW_004515823.1	Scaffold314	22831	AA	GG	1946937448
SNP_P4_122996_22858	NW_004515823.1	Scaffold314	22858	AA	GG	1946937450
SNP_P4_122997_22870	NW_004515823.1	Scaffold314	22870	GG	TT	1946937452
SNP_P4_122998_22880	NW_004515823.1	Scaffold314	22880	CC	GG	1946937454
SNP_P4_122999_22890	NW_004515823.1	Scaffold314	22890	CC	TT	1946937456
SNP_P4_123000_22918	NW_004515823.1	Scaffold314	22918	AA	GG	1946937458
SNP_P4_123001_23037	NW_004515823.1	Scaffold314	23037	AA	GG	1946937460
SNP_P4_123002_23163	NW_004515823.1	Scaffold314	23163	CC	TT	1946937462
SNP_P4_123003_23164	NW_004515823.1	Scaffold314	23164	CC	TT	1946937464
SNP_P4_123004_23165	NW_004515823.1	Scaffold314	23165	TT	CC	1946937466
SNP_P4_123005_23196	NW_004515823.1	Scaffold314	23196	GG	TT	1946937468
SNP_P4_123006_23218	NW_004515823.1	Scaffold314	23218	GG	AA	1946937470
SNP_P4_123007_23241	NW_004515823.1	Scaffold314	23241	TT	GG	1946937472
SNP_P4_123008_23297	NW_004515823.1	Scaffold314	23297	AA	GG	1946937474
SNP_P4_123009_23321	NW_004515823.1	Scaffold314	23321	AA	GG	1946937476
SNP_P4_123010_31904	NW_004515823.1	Scaffold314	31904	AA	GG	1946937479
SNP_P4_123011_36065	NW_004515823.1	Scaffold314	36065	TT	CC	1946937481
SNP_P4_123012_55382	NW_004515823.1	Scaffold314	55382	AA	GG	1946937483
SNP_P4_123013_76943	NW_004515823.1	Scaffold314	76943	AA	GG	1946937485
SNP_P4_123014_77368	NW_004515823.1	Scaffold314	77368	AA	GG	1946937487
SNP_P4_123015_77402	NW_004515823.1	Scaffold314	77402	AA	GG	1946937489
SNP_P4_123016_79745	NW_004515823.1	Scaffold314	79745	CC	TT	1946937491
SNP_P4_123017_113458	NW_004515823.1	Scaffold314	113458	GG	AA	1946937493
SNP_P4_123018_118666	NW_004515823.1	Scaffold314	118666	CC	TT	1946937495
SNP_P4_123020_130599	NW_004515823.1	Scaffold314	130599	CC	TT	1946937497
SNP_P4_123022_141058	NW_004515823.1	Scaffold314	141058	CC	TT	1946937499
SNP_P4_123023_157308	NW_004515823.1	Scaffold314	157308	TT	GG	1946937501
SNP_P4_123024_157356	NW_004515823.1	Scaffold314	157356	AA	GG	1946937503
SNP_P4_123025_189248	NW_004515823.1	Scaffold314	189248	AA	GG	1946937505
SNP_P4_123026_213789	NW_004515823.1	Scaffold314	213789	TT	CC	1946937507
SNP_P4_123027_215888	NW_004515823.1	Scaffold314	215888	CC	TT	1946937509
SNP_P4_123028_218865	NW_004515823.1	Scaffold314	218865	AA	CC	1946937511
SNP_P4_123029_222657	NW_004515823.1	Scaffold314	222657	CC	TT	1946937513
SNP_P4_123030_222730	NW_004515823.1	Scaffold314	222730	CC	TT	1946937515

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_123032_223479	NW_004515823.1	Scaffold314	223479	GG	AA	1946937519
SNP_P4_123033_223938	NW_004515823.1	Scaffold314	223938	AA	TT	1946937521
SNP_P4_123034_224056	NW_004515823.1	Scaffold314	224056	TT	CC	1946937523
SNP_P4_123035_224324	NW_004515823.1	Scaffold314	224324	CC	TT	1946937525
SNP_P4_123036_224500	NW_004515823.1	Scaffold314	224500	TT	GG	1946937527
SNP_P4_123037_225033	NW_004515823.1	Scaffold314	225033	TT	CC	1946937529
SNP_P4_123038_225201	NW_004515823.1	Scaffold314	225201	CC	AA	1946937531
SNP_P4_123039_229299	NW_004515823.1	Scaffold314	229299	AA	GG	1946937533
SNP_P4_123040_229726	NW_004515823.1	Scaffold314	229726	GG	AA	1946937535
SNP_P4_123041_231751	NW_004515823.1	Scaffold314	231751	GG	AA	1946937537
SNP_P4_123042_232451	NW_004515823.1	Scaffold314	232451	TT	GG	1946937539
SNP_P4_123045_273754	NW_004515823.1	Scaffold314	273754	TT	GG	1946937541
SNP_P4_123047_274592	NW_004515823.1	Scaffold314	274592	TT	CC	1946937543
SNP_P4_123048_274609	NW_004515823.1	Scaffold314	274609	GG	AA	1946937545
SNP_P4_123049_275295	NW_004515823.1	Scaffold314	275295	TT	CC	1946937547
SNP_P4_123050_275361	NW_004515823.1	Scaffold314	275361	GG	CC	1946937549
SNP_P4_123051_275416	NW_004515823.1	Scaffold314	275416	AA	CC	1946937551
SNP_P4_123052_275550	NW_004515823.1	Scaffold314	275550	AA	GG	1946937553
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SNP_P4_123054_275659	NW_004515823.1	Scaffold314	275659	GG	TT	1946937557
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SNP_P4_123065_316650	NW_004515823.1	Scaffold314	316650	TT	GG	1946937577
SNP_P4_123066_322271	NW_004515823.1	Scaffold314	322271	AA	CC	1946937579
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SNP_P4_123068_335486	NW_004515823.1	Scaffold314	335486	CC	TT	1946937583
SNP_P4_123069_340309	NW_004515823.1	Scaffold314	340309	TT	CC	1946937585
SNP_P4_123070_340794	NW_004515823.1	Scaffold314	340794	AA	CC	1946937587
SNP_P4_123071_378504	NW_004515823.1	Scaffold314	378504	AA	GG	1946937589
SNP_P4_123072_378750	NW_004515823.1	Scaffold314	378750	AA	GG	1946937591
SNP_P4_123073_380896	NW_004515823.1	Scaffold314	380896	TT	CC	1946937593
SNP_P4_123074_400464	NW_004515823.1	Scaffold314	400464	AA	CC	1946937595
SNP_P4_123076_431916	NW_004515823.1	Scaffold314	431916	AA	TT	1946937597
SNP_P4_123077_480350	NW_004515823.1	Scaffold314	480350	CC	TT	1946937599

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_123082_512327	NW_004515823.1	Scaffold314	512327	CC	TT	1946937605
SNP_P4_123083_577001	NW_004515823.1	Scaffold314	577001	GG	CC	1946937607
SNP_P4_123084_595293	NW_004515823.1	Scaffold314	595293	TT	CC	1946937609
SNP_P4_123085_604023	NW_004515823.1	Scaffold314	604023	TT	AA	1946937611
SNP_P4_123086_629435	NW_004515823.1	Scaffold314	629435	AA	GG	1946937613
SNP_P4_123087_645720	NW_004515823.1	Scaffold314	645720	TT	AA	1946937615
SNP_P4_123088_663860	NW_004515823.1	Scaffold314	663860	CC	GG	1946937617
SNP_P4_123089_666281	NW_004515823.1	Scaffold314	666281	AA	GG	1946937619
SNP_P4_123090_675290	NW_004515823.1	Scaffold314	675290	TT	GG	1946937621
SNP_P4_123091_696954	NW_004515823.1	Scaffold314	696954	AA	GG	1946937623
SNP_P4_123092_708939	NW_004515823.1	Scaffold314	708939	GG	AA	1946937625
SNP_P4_123093_709176	NW_004515823.1	Scaffold314	709176	AA	CC	1946937627
SNP_P4_123094_719134	NW_004515823.1	Scaffold314	719134	GG	AA	1946937629
SNP_P4_123095_740745	NW_004515823.1	Scaffold314	740745	TT	AA	1946937631
SNP_P4_123096_740808	NW_004515823.1	Scaffold314	740808	CC	TT	1946937633
SNP_P4_123097_759737	NW_004515823.1	Scaffold314	759737	AA	TT	1946937635
SNP_P4_123098_760045	NW_004515823.1	Scaffold314	760045	TT	CC	1946937637
SNP_P4_123099_1020	NW_004515824.1	Scaffold315	1020	GG	CC	1946937639
SNP_P4_123100_1021	NW_004515824.1	Scaffold315	1021	GG	CC	1946937641
SNP_P4_123101_1024	NW_004515824.1	Scaffold315	1024	TT	AA	1946937643
SNP_P4_123102_308	NW_004515825.1	Scaffold317	308	GG	AA	1946937645
SNP_P4_123103_608	NW_004515825.1	Scaffold317	608	GG	CC	1946937647
SNP_P4_123104_685	NW_004515825.1	Scaffold317	685	AA	GG	1946937649
SNP_P4_123105_6490	NW_004515825.1	Scaffold317	6490	CC	TT	1946937651
SNP_P4_123107_46355	NW_004515825.1	Scaffold317	46355	TT	CC	1946937653
SNP_P4_123108_46388	NW_004515825.1	Scaffold317	46388	CC	TT	1946937655
SNP_P4_123109_46476	NW_004515825.1	Scaffold317	46476	AA	GG	1946937657
SNP_P4_123110_46479	NW_004515825.1	Scaffold317	46479	CC	TT	1946937659
SNP_P4_123111_46500	NW_004515825.1	Scaffold317	46500	TT	CC	1946937661
SNP_P4_123112_46565	NW_004515825.1	Scaffold317	46565	GG	TT	1946937663
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SNP_P4_123114_46707	NW_004515825.1	Scaffold317	46707	GG	TT	1946937667
SNP_P4_123115_46710	NW_004515825.1	Scaffold317	46710	AA	GG	1946937669
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SNP_P4_123117_46770	NW_004515825.1	Scaffold317	46770	TT	CC	1946937673
SNP_P4_123118_46872	NW_004515825.1	Scaffold317	46872	AA	GG	1946937675
SNP_P4_123119_46962	NW_004515825.1	Scaffold317	46962	AA	GG	1946937677
SNP_P4_123120_48303	NW_004515825.1	Scaffold317	48303	CC	TT	1946937679
SNP_P4_123121_54391	NW_004515825.1	Scaffold317	54391	AA	GG	1946937681
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_123124_66262	NW_004515825.1	Scaffold317	66262	AA	GG	1946937688
SNP_P4_123125_67294	NW_004515825.1	Scaffold317	67294	AA	GG	1946937690
SNP_P4_123126_80537	NW_004515825.1	Scaffold317	80537	AA	CC	1946937692
SNP_P4_123127_80573	NW_004515825.1	Scaffold317	80573	GG	AA	1946937694
SNP_P4_123128_80822	NW_004515825.1	Scaffold317	80822	GG	AA	1946937696
SNP_P4_123129_80848	NW_004515825.1	Scaffold317	80848	TT	CC	1946937698
SNP_P4_123131_102292	NW_004515825.1	Scaffold317	102292	GG	AA	1946937700
SNP_P4_123133_105563	NW_004515825.1	Scaffold317	105563	TT	GG	1946937702
SNP_P4_123134_107736	NW_004515825.1	Scaffold317	107736	AA	GG	1946937704
SNP_P4_123135_107912	NW_004515825.1	Scaffold317	107912	TT	CC	1946937706
SNP_P4_123136_112674	NW_004515825.1	Scaffold317	112674	TT	CC	1946937708
SNP_P4_123137_136405	NW_004515825.1	Scaffold317	136405	TT	CC	1946937710
SNP_P4_123138_145510	NW_004515825.1	Scaffold317	145510	GG	AA	1946937712
SNP_P4_123139_145788	NW_004515825.1	Scaffold317	145788	GG	AA	1946937714
SNP_P4_123140_145793	NW_004515825.1	Scaffold317	145793	AA	GG	1946937716
SNP_P4_123141_145811	NW_004515825.1	Scaffold317	145811	AA	GG	1946937718
SNP_P4_123142_145830	NW_004515825.1	Scaffold317	145830	TT	CC	1946937720
SNP_P4_123143_145863	NW_004515825.1	Scaffold317	145863	GG	CC	1946937722
SNP_P4_123144_145883	NW_004515825.1	Scaffold317	145883	CC	AA	1946937724
SNP_P4_123145_145899	NW_004515825.1	Scaffold317	145899	GG	AA	1946937726
SNP_P4_123146_145919	NW_004515825.1	Scaffold317	145919	AA	GG	1946937728
SNP_P4_123147_157193	NW_004515825.1	Scaffold317	157193	TT	GG	1946937730
SNP_P4_123148_159685	NW_004515825.1	Scaffold317	159685	CC	TT	1946937732
SNP_P4_123149_171678	NW_004515825.1	Scaffold317	171678	GG	AA	1946937734
SNP_P4_123150_171862	NW_004515825.1	Scaffold317	171862	AA	GG	1946937736
SNP_P4_123151_171928	NW_004515825.1	Scaffold317	171928	CC	TT	1946937738
SNP_P4_123152_171929	NW_004515825.1	Scaffold317	171929	AA	CC	1946937740
SNP_P4_123153_173343	NW_004515825.1	Scaffold317	173343	TT	GG	1946937743
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SNP_P4_123155_180298	NW_004515825.1	Scaffold317	180298	TT	GG	1946937747
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SNP_P4_123160_180574	NW_004515825.1	Scaffold317	180574	TT	CC	1946937757
SNP_P4_123161_180592	NW_004515825.1	Scaffold317	180592	TT	AA	1946937759
SNP_P4_123162_180593	NW_004515825.1	Scaffold317	180593	AA	GG	1946937761
SNP_P4_123163_180603	NW_004515825.1	Scaffold317	180603	TT	GG	1946937763
SNP_P4_123164_180619	NW_004515825.1	Scaffold317	180619	GG	AA	1946937765
SNP_P4_123165_180628	NW_004515825.1	Scaffold317	180628	TT	CC	1946937767
SNP_P4_123166_180640	NW_004515825.1	Scaffold317	180640	AA	TT	1946937769

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_123168_180673	NW_004515825.1	Scaffold317	180673	TT	AA	1946937773
SNP_P4_123169_180704	NW_004515825.1	Scaffold317	180704	TT	GG	1946937775
SNP_P4_123170_181012	NW_004515825.1	Scaffold317	181012	GG	CC	1946937777
SNP_P4_123172_183192	NW_004515825.1	Scaffold317	183192	CC	GG	1946937779
SNP_P4_123173_184144	NW_004515825.1	Scaffold317	184144	CC	AA	1946937781
SNP_P4_123174_189711	NW_004515825.1	Scaffold317	189711	TT	CC	1946937783
SNP_P4_123175_189778	NW_004515825.1	Scaffold317	189778	TT	GG	1946937785
SNP_P4_123176_189784	NW_004515825.1	Scaffold317	189784	TT	GG	1946937788
SNP_P4_123177_189809	NW_004515825.1	Scaffold317	189809	TT	CC	1946937790
SNP_P4_123178_189836	NW_004515825.1	Scaffold317	189836	CC	TT	1946937792
SNP_P4_123179_189861	NW_004515825.1	Scaffold317	189861	GG	CC	1946937794
SNP_P4_123180_189886	NW_004515825.1	Scaffold317	189886	AA	GG	1946937796
SNP_P4_123181_189887	NW_004515825.1	Scaffold317	189887	TT	AA	1946937798
SNP_P4_123182_190079	NW_004515825.1	Scaffold317	190079	GG	AA	1946937800
SNP_P4_123183_190089	NW_004515825.1	Scaffold317	190089	CC	GG	1946937802
SNP_P4_123184_190149	NW_004515825.1	Scaffold317	190149	GG	AA	1946937804
SNP_P4_123185_190191	NW_004515825.1	Scaffold317	190191	AA	GG	1946937806
SNP_P4_123186_190234	NW_004515825.1	Scaffold317	190234	CC	TT	1946937808
SNP_P4_123189_213472	NW_004515825.1	Scaffold317	213472	AA	CC	1946937810
SNP_P4_123190_215489	NW_004515825.1	Scaffold317	215489	AA	GG	1946937812
SNP_P4_123191_215650	NW_004515825.1	Scaffold317	215650	AA	GG	1946937814
SNP_P4_123192_215683	NW_004515825.1	Scaffold317	215683	CC	TT	1946937816
SNP_P4_123193_215933	NW_004515825.1	Scaffold317	215933	TT	AA	1946937818
SNP_P4_123194_215952	NW_004515825.1	Scaffold317	215952	CC	TT	1946937820
SNP_P4_123195_217750	NW_004515825.1	Scaffold317	217750	CC	TT	1946937823
SNP_P4_123197_218037	NW_004515825.1	Scaffold317	218037	CC	TT	1946937825
SNP_P4_123198_218045	NW_004515825.1	Scaffold317	218045	AA	TT	1946937827
SNP_P4_123199_218108	NW_004515825.1	Scaffold317	218108	GG	AA	1946937829
SNP_P4_123200_218138	NW_004515825.1	Scaffold317	218138	CC	TT	1946937831
SNP_P4_123202_218170	NW_004515825.1	Scaffold317	218170	TT	CC	1946937833
SNP_P4_123203_218226	NW_004515825.1	Scaffold317	218226	TT	AA	1946937835
SNP_P4_123204_219899	NW_004515825.1	Scaffold317	219899	GG	AA	1946937837
SNP_P4_123205_219921	NW_004515825.1	Scaffold317	219921	CC	TT	1946937839
SNP_P4_123206_219954	NW_004515825.1	Scaffold317	219954	CC	TT	1946937841
SNP_P4_123207_219969	NW_004515825.1	Scaffold317	219969	GG	AA	1946937843
SNP_P4_123208_219987	NW_004515825.1	Scaffold317	219987	TT	CC	1946937845
SNP_P4_123209_230105	NW_004515825.1	Scaffold317	230105	GG	TT	1946937847
SNP_P4_123210_230357	NW_004515825.1	Scaffold317	230357	GG	AA	1946937849
SNP_P4_123211_230741	NW_004515825.1	Scaffold317	230741	TT	CC	1946937851
SNP_P4_123212_2494	NW_004515826.1	Scaffold319	2494	CC	TT	1946937853
SNP_P4_123213_2607	NW_004515826.1	Scaffold319	2607	GG	AA	1946937855

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_123215_5556	NW_004515826.1	Scaffold319	5556	CC	AA	1946937859
SNP_P4_123217_6671	NW_004515826.1	Scaffold319	6671	CC	AA	1946937861
SNP_P4_123218_6687	NW_004515826.1	Scaffold319	6687	GG	AA	1946937863
SNP_P4_123219_6733	NW_004515826.1	Scaffold319	6733	CC	GG	1946937865
SNP_P4_123220_6774	NW_004515826.1	Scaffold319	6774	AA	CC	1946937867
SNP_P4_123221_6936	NW_004515826.1	Scaffold319	6936	CC	TT	1946937869
SNP_P4_123222_7011	NW_004515826.1	Scaffold319	7011	GG	CC	1946937872
SNP_P4_123223_7174	NW_004515826.1	Scaffold319	7174	GG	TT	1946937874
SNP_P4_123224_7175	NW_004515826.1	Scaffold319	7175	GG	AA	1946937876
SNP_P4_123225_7178	NW_004515826.1	Scaffold319	7178	TT	CC	1946937878
SNP_P4_123227_9685	NW_004515826.1	Scaffold319	9685	AA	GG	1946937880
SNP_P4_123228_10434	NW_004515826.1	Scaffold319	10434	GG	CC	1946937882
SNP_P4_123229_11068	NW_004515826.1	Scaffold319	11068	AA	GG	1946937884
SNP_P4_123230_11884	NW_004515826.1	Scaffold319	11884	CC	AA	1946937886
SNP_P4_123231_11943	NW_004515826.1	Scaffold319	11943	TT	CC	1946937888
SNP_P4_123232_11977	NW_004515826.1	Scaffold319	11977	GG	AA	1946937890
SNP_P4_123233_11978	NW_004515826.1	Scaffold319	11978	CC	TT	1946937892
SNP_P4_123234_11992	NW_004515826.1	Scaffold319	11992	TT	CC	1946937894
SNP_P4_123235_12046	NW_004515826.1	Scaffold319	12046	GG	TT	1946937896
SNP_P4_123236_12069	NW_004515826.1	Scaffold319	12069	AA	GG	1946937898
SNP_P4_123237_12078	NW_004515826.1	Scaffold319	12078	AA	GG	1946937900
SNP_P4_123238_14609	NW_004515826.1	Scaffold319	14609	GG	TT	1946937902
SNP_P4_123239_16161	NW_004515826.1	Scaffold319	16161	GG	TT	1946937904
SNP_P4_123240_18473	NW_004515826.1	Scaffold319	18473	TT	GG	1946937907
SNP_P4_123241_33362	NW_004515826.1	Scaffold319	33362	TT	GG	1946937909
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SNP_P4_123246_35405	NW_004515826.1	Scaffold319	35405	AA	GG	1946937919
SNP_P4_123247_35428	NW_004515826.1	Scaffold319	35428	TT	CC	1946937921
SNP_P4_123248_35871	NW_004515826.1	Scaffold319	35871	TT	CC	1946937923
SNP_P4_123249_40570	NW_004515826.1	Scaffold319	40570	AA	GG	1946937925
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SNP_P4_123252_42904	NW_004515826.1	Scaffold319	42904	TT	AA	1946937931
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SNP_P4_123254_43222	NW_004515826.1	Scaffold319	43222	GG	TT	1946937935
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SNP_P4_123256_43318	NW_004515826.1	Scaffold319	43318	AA	TT	1946937939
SNP_P4_123257_43354	NW_004515826.1	Scaffold319	43354	GG	TT	1946937941

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_123260_43388	NW_004515826.1	Scaffold319	43388	TT	AA	1946937947
SNP_P4_123261_43500	NW_004515826.1	Scaffold319	43500	AA	TT	1946937949
SNP_P4_123262_43585	NW_004515826.1	Scaffold319	43585	GG	TT	1946937951
SNP_P4_123263_43599	NW_004515826.1	Scaffold319	43599	AA	GG	1946937953
SNP_P4_123264_43620	NW_004515826.1	Scaffold319	43620	AA	TT	1946937955
SNP_P4_123265_45040	NW_004515826.1	Scaffold319	45040	TT	CC	1946937957
SNP_P4_123266_51825	NW_004515826.1	Scaffold319	51825	AA	GG	1946937959
SNP_P4_123267_51833	NW_004515826.1	Scaffold319	51833	AA	CC	1946937961
SNP_P4_123268_51853	NW_004515826.1	Scaffold319	51853	CC	TT	1946937963
SNP_P4_123269_52369	NW_004515826.1	Scaffold319	52369	TT	CC	1946937965
SNP_P4_123270_52406	NW_004515826.1	Scaffold319	52406	TT	AA	1946937967
SNP_P4_123271_52705	NW_004515826.1	Scaffold319	52705	TT	GG	1946937969
SNP_P4_123272_56000	NW_004515826.1	Scaffold319	56000	AA	GG	1946937971
SNP_P4_123273_56055	NW_004515826.1	Scaffold319	56055	AA	GG	1946937973
SNP_P4_123274_64	NW_004515827.1	Scaffold321	64	CC	GG	1946937975
SNP_P4_123275_108	NW_004515827.1	Scaffold321	108	TT	AA	1946937978
SNP_P4_123276_174	NW_004515827.1	Scaffold321	174	TT	CC	1946937980
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SNP_P4_123278_484	NW_004515827.1	Scaffold321	484	AA	TT	1946937984
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SNP_P4_123281_10040	NW_004515827.1	Scaffold321	10040	CC	TT	1946937990
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SNP_P4_123285_13197	NW_004515827.1	Scaffold321	13197	TT	AA	1946937998
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SNP_P4_123288_14523	NW_004515827.1	Scaffold321	14523	AA	GG	1946938004
SNP_P4_123289_19232	NW_004515827.1	Scaffold321	19232	AA	GG	1946938006
SNP_P4_123290_27725	NW_004515827.1	Scaffold321	27725	CC	TT	1946938008
SNP_P4_123291_27782	NW_004515827.1	Scaffold321	27782	AA	CC	1946938010
SNP_P4_123292_27828	NW_004515827.1	Scaffold321	27828	GG	AA	1946938012
SNP_P4_123293_27855	NW_004515827.1	Scaffold321	27855	TT	AA	1946938014
SNP_P4_123294_27909	NW_004515827.1	Scaffold321	27909	TT	CC	1946938016
SNP_P4_123295_27998	NW_004515827.1	Scaffold321	27998	GG	AA	1946938018
SNP_P4_123296_28065	NW_004515827.1	Scaffold321	28065	TT	CC	1946938020
SNP_P4_123297_30214	NW_004515827.1	Scaffold321	30214	TT	AA	1946938022
SNP_P4_123298_33096	NW_004515827.1	Scaffold321	33096	AA	CC	1946938024
SNP_P4_123300_36118	NW_004515827.1	Scaffold321	36118	GG	AA	1946938026

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_123303_37047	NW_004515827.1	Scaffold321	37047	GG	TT	1946938032
SNP_P4_123304_37211	NW_004515827.1	Scaffold321	37211	TT	CC	1946938034
SNP_P4_123305_37225	NW_004515827.1	Scaffold321	37225	GG	CC	1946938036
SNP_P4_123306_37548	NW_004515827.1	Scaffold321	37548	AA	CC	1946938038
SNP_P4_123307_37605	NW_004515827.1	Scaffold321	37605	GG	AA	1946938040
SNP_P4_123308_38315	NW_004515827.1	Scaffold321	38315	CC	TT	1946938042
SNP_P4_123309_38316	NW_004515827.1	Scaffold321	38316	CC	AA	1946938044
SNP_P4_123310_38360	NW_004515827.1	Scaffold321	38360	AA	CC	1946938046
SNP_P4_123311_38400	NW_004515827.1	Scaffold321	38400	CC	GG	1946938048
SNP_P4_123312_38424	NW_004515827.1	Scaffold321	38424	GG	TT	1946938050
SNP_P4_123313_38539	NW_004515827.1	Scaffold321	38539	TT	CC	1946938052
SNP_P4_123314_38593	NW_004515827.1	Scaffold321	38593	TT	CC	1946938054
SNP_P4_123315_38641	NW_004515827.1	Scaffold321	38641	GG	AA	1946938056
SNP_P4_123316_38706	NW_004515827.1	Scaffold321	38706	TT	AA	1946938058
SNP_P4_123317_38760	NW_004515827.1	Scaffold321	38760	TT	AA	1946938060
SNP_P4_123318_38778	NW_004515827.1	Scaffold321	38778	AA	TT	1946938062
SNP_P4_123319_38785	NW_004515827.1	Scaffold321	38785	GG	CC	1946938064
SNP_P4_123320_38788	NW_004515827.1	Scaffold321	38788	GG	AA	1946938066
SNP_P4_123321_38795	NW_004515827.1	Scaffold321	38795	AA	GG	1946938068
SNP_P4_123322_38914	NW_004515827.1	Scaffold321	38914	GG	AA	1946938070
SNP_P4_123323_38983	NW_004515827.1	Scaffold321	38983	GG	AA	1946938072
SNP_P4_123324_39068	NW_004515827.1	Scaffold321	39068	TT	AA	1946938074
SNP_P4_123325_39085	NW_004515827.1	Scaffold321	39085	AA	GG	1946938076
SNP_P4_123326_39109	NW_004515827.1	Scaffold321	39109	CC	AA	1946938078
SNP_P4_123327_39290	NW_004515827.1	Scaffold321	39290	AA	CC	1946938080
SNP_P4_123328_39340	NW_004515827.1	Scaffold321	39340	TT	CC	1946938082
SNP_P4_123329_39372	NW_004515827.1	Scaffold321	39372	AA	GG	1946938084
SNP_P4_123330_39383	NW_004515827.1	Scaffold321	39383	AA	GG	1946938086
SNP_P4_123331_43956	NW_004515827.1	Scaffold321	43956	GG	TT	1946938088
SNP_P4_123332_43958	NW_004515827.1	Scaffold321	43958	TT	AA	1946938090
SNP_P4_123333_44119	NW_004515827.1	Scaffold321	44119	TT	CC	1946938092
SNP_P4_123334_44231	NW_004515827.1	Scaffold321	44231	AA	GG	1946938094
SNP_P4_123335_44310	NW_004515827.1	Scaffold321	44310	TT	AA	1946938096
SNP_P4_123336_44331	NW_004515827.1	Scaffold321	44331	GG	TT	1946938098
SNP_P4_123337_44339	NW_004515827.1	Scaffold321	44339	GG	AA	1946938100
SNP_P4_123338_44346	NW_004515827.1	Scaffold321	44346	AA	GG	1946938102
SNP_P4_123339_44387	NW_004515827.1	Scaffold321	44387	AA	TT	1946938104
SNP_P4_123340_44390	NW_004515827.1	Scaffold321	44390	TT	GG	1946938106
SNP_P4_123341_58435	NW_004515827.1	Scaffold321	58435	CC	AA	1946938108
SNP_P4_123342_58441	NW_004515827.1	Scaffold321	58441	TT	AA	1946938110

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_123343_58444	NW_004515827.1	Scaffold321	58444	CC	TT	1946938112
SNP_P4_123344_58465	NW_004515827.1	Scaffold321	58465	GG	AA	1946938115
SNP_P4_123345_58735	NW_004515827.1	Scaffold321	58735	TT	AA	1946938117
SNP_P4_123346_58855	NW_004515827.1	Scaffold321	58855	CC	TT	1946938119
SNP_P4_123347_58865	NW_004515827.1	Scaffold321	58865	CC	TT	1946938121
SNP_P4_123348_58888	NW_004515827.1	Scaffold321	58888	GG	AA	1946938123
SNP_P4_123349_58914	NW_004515827.1	Scaffold321	58914	CC	GG	1946938125
SNP_P4_123350_59623	NW_004515827.1	Scaffold321	59623	GG	AA	1946938127
SNP_P4_123351_66718	NW_004515827.1	Scaffold321	66718	AA	GG	1946938129
SNP_P4_123352_66730	NW_004515827.1	Scaffold321	66730	AA	GG	1946938131
SNP_P4_123353_66741	NW_004515827.1	Scaffold321	66741	TT	CC	1946938133
SNP_P4_123354_66853	NW_004515827.1	Scaffold321	66853	CC	GG	1946938135
SNP_P4_123355_66927	NW_004515827.1	Scaffold321	66927	TT	CC	1946938137
SNP_P4_123356_66939	NW_004515827.1	Scaffold321	66939	TT	AA	1946938139
SNP_P4_123357_67643	NW_004515827.1	Scaffold321	67643	AA	GG	1946938141
SNP_P4_123358_67721	NW_004515827.1	Scaffold321	67721	AA	GG	1946938143
SNP_P4_123359_67849	NW_004515827.1	Scaffold321	67849	CC	TT	1946938145
SNP_P4_123360_67854	NW_004515827.1	Scaffold321	67854	AA	GG	1946938147
SNP_P4_123361_67869	NW_004515827.1	Scaffold321	67869	CC	TT	1946938149
SNP_P4_123362_67884	NW_004515827.1	Scaffold321	67884	CC	TT	1946938151
SNP_P4_123363_67924	NW_004515827.1	Scaffold321	67924	GG	AA	1946938153
SNP_P4_123364_67938	NW_004515827.1	Scaffold321	67938	AA	CC	1946938155
SNP_P4_123365_67968	NW_004515827.1	Scaffold321	67968	GG	AA	1946938157
SNP_P4_123366_67974	NW_004515827.1	Scaffold321	67974	AA	CC	1946938159
SNP_P4_123367_67986	NW_004515827.1	Scaffold321	67986	TT	GG	1946938161
SNP_P4_123368_72235	NW_004515827.1	Scaffold321	72235	GG	AA	1946938163
SNP_P4_123369_73063	NW_004515827.1	Scaffold321	73063	CC	AA	1946938165
SNP_P4_123371_81060	NW_004515827.1	Scaffold321	81060	AA	CC	1946938167
SNP_P4_123372_81153	NW_004515827.1	Scaffold321	81153	TT	CC	1946938169
SNP_P4_123373_81376	NW_004515827.1	Scaffold321	81376	AA	GG	1946938171
SNP_P4_123374_83237	NW_004515827.1	Scaffold321	83237	AA	TT	1946938173
SNP_P4_123375_83277	NW_004515827.1	Scaffold321	83277	TT	AA	1946938175
SNP_P4_123376_83306	NW_004515827.1	Scaffold321	83306	AA	GG	1946938177
SNP_P4_123377_83361	NW_004515827.1	Scaffold321	83361	CC	GG	1946938179
SNP_P4_123378_83362	NW_004515827.1	Scaffold321	83362	AA	CC	1946938181
SNP_P4_123379_83499	NW_004515827.1	Scaffold321	83499	GG	AA	1946938183
SNP_P4_123380_83710	NW_004515827.1	Scaffold321	83710	TT	CC	1946938185
SNP_P4_123381_83728	NW_004515827.1	Scaffold321	83728	CC	TT	1946938187
SNP_P4_123382_2539	NW_004515828.1	Scaffold322	2539	AA	TT	1946938189
SNP_P4_123383_2560	NW_004515828.1	Scaffold322	2560	CC	AA	1946938191
SNP_P4_123384_2575	NW_004515828.1	Scaffold322	2575	TT	GG	1946938193
SNP_P4_123385_13869	NW_004515828.1	Scaffold322	13869	CC	TT	1946938196

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_123387_26880	NW_004515828.1	Scaffold322	26880	CC	TT	1946938200
SNP_P4_123388_27294	NW_004515828.1	Scaffold322	27294	TT	CC	1946938202
SNP_P4_123389_27950	NW_004515828.1	Scaffold322	27950	TT	GG	1946938204
SNP_P4_123390_30533	NW_004515828.1	Scaffold322	30533	TT	AA	1946938206
SNP_P4_123391_30545	NW_004515828.1	Scaffold322	30545	CC	AA	1946938208
SNP_P4_123392_30550	NW_004515828.1	Scaffold322	30550	GG	TT	1946938210
SNP_P4_123393_30551	NW_004515828.1	Scaffold322	30551	GG	AA	1946938212
SNP_P4_123394_30553	NW_004515828.1	Scaffold322	30553	GG	TT	1946938214
SNP_P4_123395_30555	NW_004515828.1	Scaffold322	30555	GG	CC	1946938216
SNP_P4_123396_30562	NW_004515828.1	Scaffold322	30562	TT	CC	1946938218
SNP_P4_123397_30591	NW_004515828.1	Scaffold322	30591	TT	AA	1946938219
SNP_P4_123398_34408	NW_004515828.1	Scaffold322	34408	AA	GG	1946938222
SNP_P4_123399_39292	NW_004515828.1	Scaffold322	39292	AA	CC	1946938224
SNP_P4_123400_53732	NW_004515828.1	Scaffold322	53732	AA	GG	1946938226
SNP_P4_123401_53743	NW_004515828.1	Scaffold322	53743	AA	GG	1946938227
SNP_P4_123402_54079	NW_004515828.1	Scaffold322	54079	CC	GG	1946938230
SNP_P4_123403_54097	NW_004515828.1	Scaffold322	54097	GG	CC	1946938232
SNP_P4_123406_55475	NW_004515828.1	Scaffold322	55475	GG	AA	1946938234
SNP_P4_123407_55479	NW_004515828.1	Scaffold322	55479	GG	TT	1946938236
SNP_P4_123408_75672	NW_004515828.1	Scaffold322	75672	AA	CC	1946938238
SNP_P4_123410_86884	NW_004515828.1	Scaffold322	86884	GG	AA	1946938240
SNP_P4_123411_87159	NW_004515828.1	Scaffold322	87159	GG	AA	1946938242
SNP_P4_123412_103441	NW_004515828.1	Scaffold322	103441	GG	AA	1946938244
SNP_P4_123413_104877	NW_004515828.1	Scaffold322	104877	CC	GG	1946938246
SNP_P4_123414_125652	NW_004515828.1	Scaffold322	125652	TT	AA	1946938248
SNP_P4_123415_125703	NW_004515828.1	Scaffold322	125703	AA	TT	1946938250
SNP_P4_123416_129887	NW_004515828.1	Scaffold322	129887	CC	TT	1946938252
SNP_P4_123417_151506	NW_004515828.1	Scaffold322	151506	TT	AA	1946938254
SNP_P4_123418_151507	NW_004515828.1	Scaffold322	151507	TT	GG	1946938256
SNP_P4_123419_151510	NW_004515828.1	Scaffold322	151510	CC	TT	1946938258
SNP_P4_123420_151513	NW_004515828.1	Scaffold322	151513	CC	AA	1946938260
SNP_P4_123421_151517	NW_004515828.1	Scaffold322	151517	AA	GG	1946938262
SNP_P4_123422_151519	NW_004515828.1	Scaffold322	151519	TT	GG	1946938264
SNP_P4_123423_151525	NW_004515828.1	Scaffold322	151525	TT	AA	1946938266
SNP_P4_123424_151531	NW_004515828.1	Scaffold322	151531	CC	AA	1946938268
SNP_P4_123425_151541	NW_004515828.1	Scaffold322	151541	AA	CC	1946938270
SNP_P4_123426_151547	NW_004515828.1	Scaffold322	151547	TT	GG	1946938272
SNP_P4_123427_151580	NW_004515828.1	Scaffold322	151580	AA	GG	1946938274
SNP_P4_123428_151634	NW_004515828.1	Scaffold322	151634	GG	AA	1946938276
SNP_P4_123429_151699	NW_004515828.1	Scaffold322	151699	AA	TT	1946938278
SNP_P4_123430_151881	NW_004515828.1	Scaffold322	151881	GG	AA	1946938280

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_123432_151912	NW_004515828.1	Scaffold322	151912	GG	TT	1946938284
SNP_P4_123433_151957	NW_004515828.1	Scaffold322	151957	GG	CC	1946938286
SNP_P4_123434_152024	NW_004515828.1	Scaffold322	152024	CC	AA	1946938288
SNP_P4_123435_152036	NW_004515828.1	Scaffold322	152036	CC	GG	1946938290
SNP_P4_123436_152308	NW_004515828.1	Scaffold322	152308	GG	AA	1946938292
SNP_P4_123437_162429	NW_004515828.1	Scaffold322	162429	GG	AA	1946938294
SNP_P4_123438_162643	NW_004515828.1	Scaffold322	162643	AA	TT	1946938296
SNP_P4_123439_168595	NW_004515828.1	Scaffold322	168595	TT	AA	1946938298
SNP_P4_123440_168609	NW_004515828.1	Scaffold322	168609	TT	CC	1946938300
SNP_P4_123441_168613	NW_004515828.1	Scaffold322	168613	AA	CC	1946938302
SNP_P4_123442_168615	NW_004515828.1	Scaffold322	168615	CC	TT	1946938303
SNP_P4_123443_168639	NW_004515828.1	Scaffold322	168639	GG	AA	1946938305
SNP_P4_123444_168678	NW_004515828.1	Scaffold322	168678	CC	TT	1946938307
SNP_P4_123445_168751	NW_004515828.1	Scaffold322	168751	CC	AA	1946938309
SNP_P4_123446_168786	NW_004515828.1	Scaffold322	168786	TT	CC	1946938311
SNP_P4_123447_168879	NW_004515828.1	Scaffold322	168879	GG	AA	1946938313
SNP_P4_123448_168889	NW_004515828.1	Scaffold322	168889	GG	AA	1946938315
SNP_P4_123449_168919	NW_004515828.1	Scaffold322	168919	AA	TT	1946938317
SNP_P4_123450_169003	NW_004515828.1	Scaffold322	169003	GG	CC	1946938319
SNP_P4_123451_169006	NW_004515828.1	Scaffold322	169006	TT	CC	1946938321
SNP_P4_123452_169019	NW_004515828.1	Scaffold322	169019	TT	AA	1946938323
SNP_P4_123453_169059	NW_004515828.1	Scaffold322	169059	AA	TT	1946938325
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SNP_P4_123455_169105	NW_004515828.1	Scaffold322	169105	TT	AA	1946938330
SNP_P4_123456_169113	NW_004515828.1	Scaffold322	169113	GG	CC	1946938332
SNP_P4_123457_169116	NW_004515828.1	Scaffold322	169116	CC	GG	1946938334
SNP_P4_123458_169134	NW_004515828.1	Scaffold322	169134	CC	TT	1946938336
SNP_P4_123459_169157	NW_004515828.1	Scaffold322	169157	CC	AA	1946938338
SNP_P4_123460_169360	NW_004515828.1	Scaffold322	169360	AA	TT	1946938340
SNP_P4_123461_169394	NW_004515828.1	Scaffold322	169394	TT	CC	1946938342
SNP_P4_123462_169414	NW_004515828.1	Scaffold322	169414	AA	CC	1946938344
SNP_P4_123463_169475	NW_004515828.1	Scaffold322	169475	GG	AA	1946938346
SNP_P4_123464_170041	NW_004515828.1	Scaffold322	170041	TT	CC	1946938348
SNP_P4_123465_170229	NW_004515828.1	Scaffold322	170229	TT	CC	1946938350
SNP_P4_123466_170307	NW_004515828.1	Scaffold322	170307	GG	TT	1946938352
SNP_P4_123467_170324	NW_004515828.1	Scaffold322	170324	TT	GG	1946938354
SNP_P4_123468_170906	NW_004515828.1	Scaffold322	170906	GG	AA	1946938356
SNP_P4_123469_174517	NW_004515828.1	Scaffold322	174517	GG	CC	1946938358
SNP_P4_123470_174868	NW_004515828.1	Scaffold322	174868	GG	AA	1946938360
SNP_P4_123471_174917	NW_004515828.1	Scaffold322	174917	AA	GG	1946938362
SNP_P4_123472_179184	NW_004515828.1	Scaffold322	179184	AA	GG	1946938364

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_123474_150	NW_004515829.1	Scaffold323	150	CC	TT	1946938368
SNP_P4_123475_320	NW_004515829.1	Scaffold323	320	AA	TT	1946938370
SNP_P4_123476_2071	NW_004515829.1	Scaffold323	2071	CC	AA	1946938372
SNP_P4_123477_2080	NW_004515829.1	Scaffold323	2080	CC	GG	1946938374
SNP_P4_123478_2258	NW_004515829.1	Scaffold323	2258	TT	CC	1946938376
SNP_P4_123479_2311	NW_004515829.1	Scaffold323	2311	TT	AA	1946938378
SNP_P4_123480_2329	NW_004515829.1	Scaffold323	2329	TT	AA	1946938380
SNP_P4_123481_2374	NW_004515829.1	Scaffold323	2374	TT	AA	1946938382
SNP_P4_123482_3104	NW_004515829.1	Scaffold323	3104	GG	TT	1946938384
SNP_P4_123483_3124	NW_004515829.1	Scaffold323	3124	AA	TT	1946938386
SNP_P4_123484_3189	NW_004515829.1	Scaffold323	3189	TT	CC	1946938388
SNP_P4_123485_7338	NW_004515829.1	Scaffold323	7338	AA	GG	1946938390
SNP_P4_123486_9762	NW_004515829.1	Scaffold323	9762	CC	TT	1946938392
SNP_P4_123487_9766	NW_004515829.1	Scaffold323	9766	TT	GG	1946938394
SNP_P4_123488_10579	NW_004515829.1	Scaffold323	10579	TT	GG	1946938396
SNP_P4_123489_11227	NW_004515829.1	Scaffold323	11227	CC	AA	1946938398
SNP_P4_123490_11243	NW_004515829.1	Scaffold323	11243	CC	GG	1946938401
SNP_P4_123491_11273	NW_004515829.1	Scaffold323	11273	GG	CC	1946938403
SNP_P4_123492_11295	NW_004515829.1	Scaffold323	11295	TT	AA	1946938405
SNP_P4_123493_11316	NW_004515829.1	Scaffold323	11316	CC	GG	1946938407
SNP_P4_123494_11509	NW_004515829.1	Scaffold323	11509	AA	GG	1946938409
SNP_P4_123495_11838	NW_004515829.1	Scaffold323	11838	GG	AA	1946938411
SNP_P4_123496_13848	NW_004515829.1	Scaffold323	13848	AA	GG	1946938413
SNP_P4_123497_14768	NW_004515829.1	Scaffold323	14768	CC	AA	1946938415
SNP_P4_123498_17510	NW_004515829.1	Scaffold323	17510	CC	TT	1946938417
SNP_P4_123499_18284	NW_004515829.1	Scaffold323	18284	CC	TT	1946938419
SNP_P4_123500_18288	NW_004515829.1	Scaffold323	18288	GG	TT	1946938421
SNP_P4_123501_20862	NW_004515829.1	Scaffold323	20862	CC	TT	1946938423
SNP_P4_123502_23952	NW_004515829.1	Scaffold323	23952	GG	AA	1946938425
SNP_P4_123503_23962	NW_004515829.1	Scaffold323	23962	TT	AA	1946938427
SNP_P4_123504_23963	NW_004515829.1	Scaffold323	23963	CC	GG	1946938429
SNP_P4_123505_23964	NW_004515829.1	Scaffold323	23964	AA	TT	1946938431
SNP_P4_123506_23966	NW_004515829.1	Scaffold323	23966	CC	GG	1946938433
SNP_P4_123507_23969	NW_004515829.1	Scaffold323	23969	TT	CC	1946938435
SNP_P4_123508_23973	NW_004515829.1	Scaffold323	23973	GG	TT	1946938438
SNP_P4_123509_45837	NW_004515829.1	Scaffold323	45837	CC	AA	1946938440
SNP_P4_123510_45975	NW_004515829.1	Scaffold323	45975	CC	AA	1946938442
SNP_P4_123511_45987	NW_004515829.1	Scaffold323	45987	TT	GG	1946938444
SNP_P4_123512_45995	NW_004515829.1	Scaffold323	45995	CC	GG	1946938446
SNP_P4_123513_45996	NW_004515829.1	Scaffold323	45996	GG	AA	1946938448
SNP_P4_123514_46000	NW_004515829.1	Scaffold323	46000	CC	TT	1946938450

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_123516_54006	NW_004515829.1	Scaffold323	54006	AA	GG	1946938454
SNP_P4_123517_54107	NW_004515829.1	Scaffold323	54107	TT	CC	1946938456
SNP_P4_123518_54108	NW_004515829.1	Scaffold323	54108	CC	AA	1946938458
SNP_P4_123519_54124	NW_004515829.1	Scaffold323	54124	TT	CC	1946938460
SNP_P4_123520_54160	NW_004515829.1	Scaffold323	54160	GG	TT	1946938462
SNP_P4_123521_54191	NW_004515829.1	Scaffold323	54191	TT	AA	1946938464
SNP_P4_123522_54195	NW_004515829.1	Scaffold323	54195	AA	TT	1946938466
SNP_P4_123523_54203	NW_004515829.1	Scaffold323	54203	CC	GG	1946938468
SNP_P4_123524_57794	NW_004515829.1	Scaffold323	57794	AA	TT	1946938470
SNP_P4_123525_58187	NW_004515829.1	Scaffold323	58187	AA	TT	1946938472
SNP_P4_123526_58285	NW_004515829.1	Scaffold323	58285	CC	TT	1946938474
SNP_P4_123527_3773	NW_004515830.1	Scaffold324	3773	AA	GG	1946938476
SNP_P4_123529_3843	NW_004515830.1	Scaffold324	3843	AA	GG	1946938478
SNP_P4_123530_11981	NW_004515830.1	Scaffold324	11981	CC	TT	1946938480
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SNP_P4_123532_17700	NW_004515830.1	Scaffold324	17700	GG	TT	1946938483
SNP_P4_123533_19694	NW_004515830.1	Scaffold324	19694	AA	CC	1946938485
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SNP_P4_123537_27345	NW_004515830.1	Scaffold324	27345	AA	CC	1946938491
SNP_P4_123538_27404	NW_004515830.1	Scaffold324	27404	AA	GG	1946938493
SNP_P4_123539_27423	NW_004515830.1	Scaffold324	27423	TT	CC	1946938495
SNP_P4_123540_27746	NW_004515830.1	Scaffold324	27746	GG	AA	1946938498
SNP_P4_123541_27966	NW_004515830.1	Scaffold324	27966	GG	AA	1946938500
SNP_P4_123542_28127	NW_004515830.1	Scaffold324	28127	GG	AA	1946938502
SNP_P4_123543_34350	NW_004515830.1	Scaffold324	34350	TT	CC	1946938504
SNP_P4_123544_41721	NW_004515830.1	Scaffold324	41721	TT	CC	1946938506
SNP_P4_123545_45384	NW_004515830.1	Scaffold324	45384	GG	CC	1946938508
SNP_P4_123546_45386	NW_004515830.1	Scaffold324	45386	TT	GG	1946938511
SNP_P4_123547_45387	NW_004515830.1	Scaffold324	45387	AA	TT	1946938513
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SNP_P4_123550_51290	NW_004515830.1	Scaffold324	51290	GG	AA	1946938519
SNP_P4_123551_53171	NW_004515830.1	Scaffold324	53171	AA	GG	1946938520
SNP_P4_123552_53186	NW_004515830.1	Scaffold324	53186	TT	CC	1946938521
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SNP_P4_123554_53240	NW_004515830.1	Scaffold324	53240	CC	TT	1946938523
SNP_P4_123555_53248	NW_004515830.1	Scaffold324	53248	TT	GG	1946938524
SNP_P4_123556_55128	NW_004515830.1	Scaffold324	55128	TT	GG	1946938525
SNP_P4_123557_55139	NW_004515830.1	Scaffold324	55139	TT	CC	1946938526
SNP_P4_123558_55142	NW_004515830.1	Scaffold324	55142	AA	GG	1946938527

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_123562_55562	NW_004515830.1	Scaffold324	55562	GG	AA	1946938531
SNP_P4_123563_58689	NW_004515830.1	Scaffold324	58689	GG	CC	1946938532
SNP_P4_123564_59469	NW_004515830.1	Scaffold324	59469	GG	TT	1946938533
SNP_P4_123565_59484	NW_004515830.1	Scaffold324	59484	AA	GG	1946938534
SNP_P4_123566_59497	NW_004515830.1	Scaffold324	59497	CC	AA	1946938535
SNP_P4_123568_75808	NW_004515830.1	Scaffold324	75808	GG	TT	1946938536
SNP_P4_123569_85922	NW_004515830.1	Scaffold324	85922	AA	CC	1946938537
SNP_P4_123570_85958	NW_004515830.1	Scaffold324	85958	CC	TT	1946938538
SNP_P4_123571_85988	NW_004515830.1	Scaffold324	85988	CC	AA	1946938540
SNP_P4_123572_86008	NW_004515830.1	Scaffold324	86008	AA	GG	1946938542
SNP_P4_123573_86041	NW_004515830.1	Scaffold324	86041	GG	AA	1946938544
SNP_P4_123574_86190	NW_004515830.1	Scaffold324	86190	AA	GG	1946938546
SNP_P4_123575_87151	NW_004515830.1	Scaffold324	87151	AA	GG	1946938548
SNP_P4_123576_87596	NW_004515830.1	Scaffold324	87596	AA	TT	1946938550
SNP_P4_123577_96805	NW_004515830.1	Scaffold324	96805	GG	AA	1946938552
SNP_P4_123578_105355	NW_004515830.1	Scaffold324	105355	GG	CC	1946938554
SNP_P4_123579_105851	NW_004515830.1	Scaffold324	105851	TT	GG	1946938556
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SNP_P4_123581_134028	NW_004515830.1	Scaffold324	134028	CC	AA	1946938560
SNP_P4_123582_144803	NW_004515830.1	Scaffold324	144803	AA	GG	1946938562
SNP_P4_123583_144810	NW_004515830.1	Scaffold324	144810	AA	TT	1946938564
SNP_P4_123585_157490	NW_004515830.1	Scaffold324	157490	GG	CC	1946938566
SNP_P4_123586_159570	NW_004515830.1	Scaffold324	159570	TT	GG	1946938568
SNP_P4_123587_161457	NW_004515830.1	Scaffold324	161457	AA	GG	1946938570
SNP_P4_123589_165663	NW_004515830.1	Scaffold324	165663	AA	GG	1946938572
SNP_P4_123590_177644	NW_004515830.1	Scaffold324	177644	AA	GG	1946938574
SNP_P4_123591_180195	NW_004515830.1	Scaffold324	180195	TT	CC	1946938576
SNP_P4_123592_180209	NW_004515830.1	Scaffold324	180209	CC	GG	1946938578
SNP_P4_123593_180435	NW_004515830.1	Scaffold324	180435	AA	CC	1946938580
SNP_P4_123594_184541	NW_004515830.1	Scaffold324	184541	AA	GG	1946938582
SNP_P4_123595_185373	NW_004515830.1	Scaffold324	185373	TT	GG	1946938584
SNP_P4_123596_188194	NW_004515830.1	Scaffold324	188194	TT	AA	1946938586
SNP_P4_123597_220286	NW_004515830.1	Scaffold324	220286	TT	AA	1946938588
SNP_P4_123598_224465	NW_004515830.1	Scaffold324	224465	TT	CC	1946938590
SNP_P4_123599_224802	NW_004515830.1	Scaffold324	224802	CC	AA	1946938592
SNP_P4_123600_224859	NW_004515830.1	Scaffold324	224859	CC	AA	1946938594
SNP_P4_123602_244369	NW_004515830.1	Scaffold324	244369	GG	AA	1946938596
SNP_P4_123603_244395	NW_004515830.1	Scaffold324	244395	CC	AA	1946938598
SNP_P4_123604_244654	NW_004515830.1	Scaffold324	244654	CC	TT	1946938599

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_123606_250521	NW_004515830.1	Scaffold324	250521	CC	TT	1946938602
SNP_P4_123607_279729	NW_004515830.1	Scaffold324	279729	TT	AA	1946938604
SNP_P4_123608_280308	NW_004515830.1	Scaffold324	280308	TT	CC	1946938606
SNP_P4_123609_280374	NW_004515830.1	Scaffold324	280374	AA	TT	1946938608
SNP_P4_123610_310287	NW_004515830.1	Scaffold324	310287	CC	AA	1946938610
SNP_P4_123611_312119	NW_004515830.1	Scaffold324	312119	AA	GG	1946938612
SNP_P4_123612_312255	NW_004515830.1	Scaffold324	312255	AA	TT	1946938614
SNP_P4_123613_312275	NW_004515830.1	Scaffold324	312275	AA	CC	1946938616
SNP_P4_123614_312463	NW_004515830.1	Scaffold324	312463	CC	GG	1946938618
SNP_P4_123615_312486	NW_004515830.1	Scaffold324	312486	TT	CC	1946938620
SNP_P4_123616_330346	NW_004515830.1	Scaffold324	330346	CC	TT	1946938622
SNP_P4_123617_330370	NW_004515830.1	Scaffold324	330370	TT	CC	1946938624
SNP_P4_123618_340498	NW_004515830.1	Scaffold324	340498	TT	CC	1946938626
SNP_P4_123619_340523	NW_004515830.1	Scaffold324	340523	AA	TT	1946938628
SNP_P4_123620_343231	NW_004515830.1	Scaffold324	343231	AA	GG	1946938630
SNP_P4_123621_343253	NW_004515830.1	Scaffold324	343253	TT	CC	1946938632
SNP_P4_123622_346764	NW_004515830.1	Scaffold324	346764	TT	AA	1946938634
SNP_P4_123623_347197	NW_004515830.1	Scaffold324	347197	TT	AA	1946938636
SNP_P4_123624_347202	NW_004515830.1	Scaffold324	347202	AA	TT	1946938638
SNP_P4_123625_347475	NW_004515830.1	Scaffold324	347475	AA	CC	1946938640
SNP_P4_123626_347841	NW_004515830.1	Scaffold324	347841	TT	GG	1946938642
SNP_P4_123628_354325	NW_004515830.1	Scaffold324	354325	CC	GG	1946938644
SNP_P4_123629_354399	NW_004515830.1	Scaffold324	354399	CC	TT	1946938646
SNP_P4_123630_357307	NW_004515830.1	Scaffold324	357307	GG	AA	1946938648
SNP_P4_123631_357317	NW_004515830.1	Scaffold324	357317	AA	CC	1946938650
SNP_P4_123632_357343	NW_004515830.1	Scaffold324	357343	TT	CC	1946938652
SNP_P4_123633_357346	NW_004515830.1	Scaffold324	357346	AA	GG	1946938654
SNP_P4_123634_357419	NW_004515830.1	Scaffold324	357419	CC	GG	1946938656
SNP_P4_123635_366882	NW_004515830.1	Scaffold324	366882	GG	TT	1946938658
SNP_P4_123636_367639	NW_004515830.1	Scaffold324	367639	AA	GG	1946938660
SNP_P4_123637_368255	NW_004515830.1	Scaffold324	368255	TT	CC	1946938662
SNP_P4_123638_368266	NW_004515830.1	Scaffold324	368266	TT	GG	1946938664
SNP_P4_123639_368469	NW_004515830.1	Scaffold324	368469	GG	TT	1946938666
SNP_P4_123640_368472	NW_004515830.1	Scaffold324	368472	GG	AA	1946938668
SNP_P4_123641_368474	NW_004515830.1	Scaffold324	368474	TT	CC	1946938670
SNP_P4_123642_368476	NW_004515830.1	Scaffold324	368476	CC	TT	1946938672
SNP_P4_123643_368495	NW_004515830.1	Scaffold324	368495	GG	TT	1946938674
SNP_P4_123644_368659	NW_004515830.1	Scaffold324	368659	AA	GG	1946938676
SNP_P4_123645_369495	NW_004515830.1	Scaffold324	369495	GG	TT	1946938678
SNP_P4_123646_369496	NW_004515830.1	Scaffold324	369496	CC	AA	1946938680
SNP_P4_123647_371055	NW_004515830.1	Scaffold324	371055	TT	GG	1946938682

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_123650_371291	NW_004515830.1	Scaffold324	371291	AA	GG	1946938688
SNP_P4_123651_371309	NW_004515830.1	Scaffold324	371309	AA	CC	1946938690
SNP_P4_123652_371466	NW_004515830.1	Scaffold324	371466	AA	GG	1946938692
SNP_P4_123653_371532	NW_004515830.1	Scaffold324	371532	AA	GG	1946938694
SNP_P4_123654_371533	NW_004515830.1	Scaffold324	371533	AA	GG	1946938696
SNP_P4_123655_376473	NW_004515830.1	Scaffold324	376473	CC	AA	1946938698
SNP_P4_123656_376564	NW_004515830.1	Scaffold324	376564	GG	AA	1946938700
SNP_P4_123657_376630	NW_004515830.1	Scaffold324	376630	CC	AA	1946938702
SNP_P4_123658_377276	NW_004515830.1	Scaffold324	377276	GG	AA	1946938704
SNP_P4_123659_377322	NW_004515830.1	Scaffold324	377322	TT	CC	1946938706
SNP_P4_123660_378358	NW_004515830.1	Scaffold324	378358	TT	AA	1946938708
SNP_P4_123661_378712	NW_004515830.1	Scaffold324	378712	AA	GG	1946938710
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SNP_P4_123663_383421	NW_004515830.1	Scaffold324	383421	TT	CC	1946938714
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SNP_P4_123665_383466	NW_004515830.1	Scaffold324	383466	CC	TT	1946938718
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SNP_P4_123683_394562	NW_004515830.1	Scaffold324	394562	AA	GG	1946938754
SNP_P4_123684_395272	NW_004515830.1	Scaffold324	395272	TT	CC	1946938756
SNP_P4_123685_395292	NW_004515830.1	Scaffold324	395292	AA	GG	1946938758
SNP_P4_123686_395295	NW_004515830.1	Scaffold324	395295	CC	AA	1946938760
SNP_P4_123687_395296	NW_004515830.1	Scaffold324	395296	AA	TT	1946938762
SNP_P4_123688_395299	NW_004515830.1	Scaffold324	395299	AA	TT	1946938764
SNP_P4_123689_395697	NW_004515830.1	Scaffold324	395697	TT	CC	1946938766

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_123692_396101	NW_004515830.1	Scaffold324	396101	TT	CC	1946938772
SNP_P4_123693_398242	NW_004515830.1	Scaffold324	398242	TT	CC	1946938774
SNP_P4_123694_398635	NW_004515830.1	Scaffold324	398635	CC	TT	1946938776
SNP_P4_123695_400739	NW_004515830.1	Scaffold324	400739	TT	AA	1946938778
SNP_P4_123696_401153	NW_004515830.1	Scaffold324	401153	TT	CC	1946938780
SNP_P4_123697_412144	NW_004515830.1	Scaffold324	412144	CC	AA	1946938782
SNP_P4_123698_414415	NW_004515830.1	Scaffold324	414415	GG	AA	1946938784
SNP_P4_123699_415884	NW_004515830.1	Scaffold324	415884	AA	CC	1946938786
SNP_P4_123700_415905	NW_004515830.1	Scaffold324	415905	AA	CC	1946938788
SNP_P4_123701_415927	NW_004515830.1	Scaffold324	415927	TT	GG	1946938790
SNP_P4_123702_417383	NW_004515830.1	Scaffold324	417383	CC	AA	1946938792
SNP_P4_123703_418936	NW_004515830.1	Scaffold324	418936	AA	GG	1946938794
SNP_P4_123704_419293	NW_004515830.1	Scaffold324	419293	AA	GG	1946938796
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SNP_P4_123707_430602	NW_004515830.1	Scaffold324	430602	AA	GG	1946938802
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SNP_P4_123719_2577	NW_004515831.1	Scaffold325	2577	GG	AA	1946938826
SNP_P4_123720_5507	NW_004515831.1	Scaffold325	5507	AA	CC	1946938828
SNP_P4_123721_5520	NW_004515831.1	Scaffold325	5520	CC	TT	1946938830
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SNP_P4_123726_12119	NW_004515834.1	Scaffold328	12119	CC	GG	1946938840
SNP_P4_123727_12126	NW_004515834.1	Scaffold328	12126	TT	AA	1946938842
SNP_P4_123728_12128	NW_004515834.1	Scaffold328	12128	GG	TT	1946938844
SNP_P4_123729_12139	NW_004515834.1	Scaffold328	12139	TT	GG	1946938846
SNP_P4_123730_12151	NW_004515834.1	Scaffold328	12151	CC	GG	1946938848
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_123734_12289	NW_004515834.1	Scaffold328	12289	GG	TT	1946938856
SNP_P4_123735_12666	NW_004515834.1	Scaffold328	12666	TT	AA	1946938858
SNP_P4_123736_12667	NW_004515834.1	Scaffold328	12667	TT	GG	1946938861
SNP_P4_123737_12684	NW_004515834.1	Scaffold328	12684	AA	GG	1946938863
SNP_P4_123738_1349	NW_004515835.1	Scaffold330	1349	TT	CC	1946938865
SNP_P4_123739_2358	NW_004515835.1	Scaffold330	2358	AA	GG	1946938867
SNP_P4_123740_2379	NW_004515835.1	Scaffold330	2379	GG	AA	1946938869
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SNP_P4_123742_2483	NW_004515835.1	Scaffold330	2483	CC	GG	1946938873
SNP_P4_123743_2495	NW_004515835.1	Scaffold330	2495	AA	GG	1946938875
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SNP_P4_123755_8109	NW_004515835.1	Scaffold330	8109	CC	TT	1946938898
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SNP_P4_123757_8133	NW_004515835.1	Scaffold330	8133	AA	CC	1946938902
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SNP_P4_123762_10224	NW_004515835.1	Scaffold330	10224	CC	GG	1946938910
SNP_P4_123763_10603	NW_004515835.1	Scaffold330	10603	AA	GG	1946938912
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SNP_P4_123767_10831	NW_004515835.1	Scaffold330	10831	GG	AA	1946938918
SNP_P4_123768_122	NW_004515836.1	Scaffold331	122	AA	CC	1946938920
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SNP_P4_123770_760	NW_004515836.1	Scaffold331	760	AA	CC	1946938924
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SNP_P4_123772_834	NW_004515836.1	Scaffold331	834	AA	TT	1946938928
SNP_P4_123773_1237	NW_004515836.1	Scaffold331	1237	GG	AA	1946938930
SNP_P4_123774_2127	NW_004515836.1	Scaffold331	2127	TT	AA	1946938932
SNP_P4_123775_5222	NW_004515836.1	Scaffold331	5222	TT	AA	1946938934
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_123780_20682	NW_004515836.1	Scaffold331	20682	CC	AA	1946938942
SNP_P4_123781_20955	NW_004515836.1	Scaffold331	20955	TT	CC	1946938944
SNP_P4_123782_21027	NW_004515836.1	Scaffold331	21027	TT	GG	1946938946
SNP_P4_123783_21037	NW_004515836.1	Scaffold331	21037	AA	GG	1946938948
SNP_P4_123784_24993	NW_004515836.1	Scaffold331	24993	AA	GG	1946938950
SNP_P4_123785_33520	NW_004515836.1	Scaffold331	33520	GG	AA	1946938952
SNP_P4_123786_33858	NW_004515836.1	Scaffold331	33858	TT	CC	1946938954
SNP_P4_123787_33860	NW_004515836.1	Scaffold331	33860	AA	CC	1946938956
SNP_P4_123788_35006	NW_004515836.1	Scaffold331	35006	AA	GG	1946938958
SNP_P4_123789_38462	NW_004515836.1	Scaffold331	38462	GG	CC	1946938960
SNP_P4_123790_43735	NW_004515836.1	Scaffold331	43735	GG	AA	1946938962
SNP_P4_123791_43779	NW_004515836.1	Scaffold331	43779	AA	GG	1946938964
SNP_P4_123792_43957	NW_004515836.1	Scaffold331	43957	TT	CC	1946938966
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SNP_P4_123794_44027	NW_004515836.1	Scaffold331	44027	TT	GG	1946938970
SNP_P4_123796_50228	NW_004515836.1	Scaffold331	50228	TT	CC	1946938972
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SNP_P4_123798_50956	NW_004515836.1	Scaffold331	50956	CC	GG	1946938976
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SNP_P4_123804_62233	NW_004515836.1	Scaffold331	62233	TT	CC	1946938988
SNP_P4_123805_62275	NW_004515836.1	Scaffold331	62275	AA	TT	1946938990
SNP_P4_123806_62282	NW_004515836.1	Scaffold331	62282	TT	AA	1946938992
SNP_P4_123807_62555	NW_004515836.1	Scaffold331	62555	GG	AA	1946938994
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SNP_P4_123809_75205	NW_004515836.1	Scaffold331	75205	GG	AA	1946938998
SNP_P4_123810_90811	NW_004515836.1	Scaffold331	90811	GG	AA	1946939000
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SNP_P4_123816_129803	NW_004515836.1	Scaffold331	129803	CC	AA	1946939012
SNP_P4_123818_219666	NW_004515836.1	Scaffold331	219666	AA	GG	1946939014
SNP_P4_123819_242891	NW_004515836.1	Scaffold331	242891	CC	TT	1946939016
SNP_P4_123820_252880	NW_004515836.1	Scaffold331	252880	TT	CC	1946939018
SNP_P4_123821_283933	NW_004515836.1	Scaffold331	283933	GG	AA	1946939020

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_123824_48544	NW_004515837.1	Scaffold332	48544	GG	AA	1946939026
SNP_P4_123825_48731	NW_004515837.1	Scaffold332	48731	AA	GG	1946939028
SNP_P4_123826_48874	NW_004515837.1	Scaffold332	48874	TT	CC	1946939030
SNP_P4_123827_48919	NW_004515837.1	Scaffold332	48919	AA	GG	1946939032
SNP_P4_123828_51861	NW_004515837.1	Scaffold332	51861	TT	GG	1946939034
SNP_P4_123829_51982	NW_004515837.1	Scaffold332	51982	TT	GG	1946939036
SNP_P4_123830_51990	NW_004515837.1	Scaffold332	51990	TT	GG	1946939038
SNP_P4_123831_52757	NW_004515837.1	Scaffold332	52757	AA	CC	1946939040
SNP_P4_123832_52765	NW_004515837.1	Scaffold332	52765	AA	GG	1946939042
SNP_P4_123833_52836	NW_004515837.1	Scaffold332	52836	TT	CC	1946939044
SNP_P4_123834_52997	NW_004515837.1	Scaffold332	52997	AA	GG	1946939046
SNP_P4_123835_53012	NW_004515837.1	Scaffold332	53012	TT	CC	1946939048
SNP_P4_123836_97745	NW_004515837.1	Scaffold332	97745	CC	TT	1946939050
SNP_P4_123837_97747	NW_004515837.1	Scaffold332	97747	CC	AA	1946939052
SNP_P4_123838_123351	NW_004515837.1	Scaffold332	123351	CC	TT	1946939054
SNP_P4_123839_164200	NW_004515837.1	Scaffold332	164200	TT	CC	1946939056
SNP_P4_123840_180764	NW_004515837.1	Scaffold332	180764	AA	TT	1946939058
SNP_P4_123841_180792	NW_004515837.1	Scaffold332	180792	AA	CC	1946939060
SNP_P4_123842_181178	NW_004515837.1	Scaffold332	181178	TT	GG	1946939062
SNP_P4_123843_183216	NW_004515837.1	Scaffold332	183216	AA	TT	1946939064
SNP_P4_123844_183609	NW_004515837.1	Scaffold332	183609	AA	GG	1946939066
SNP_P4_123846_203755	NW_004515837.1	Scaffold332	203755	AA	GG	1946939068
SNP_P4_123847_203756	NW_004515837.1	Scaffold332	203756	CC	TT	1946939070
SNP_P4_123848_204952	NW_004515837.1	Scaffold332	204952	GG	AA	1946939072
SNP_P4_123849_216297	NW_004515837.1	Scaffold332	216297	GG	AA	1946939074
SNP_P4_123850_216390	NW_004515837.1	Scaffold332	216390	GG	CC	1946939076
SNP_P4_123851_218647	NW_004515837.1	Scaffold332	218647	CC	GG	1946939078
SNP_P4_123852_4822	NW_004515838.1	Scaffold333	4822	GG	TT	1946939080
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SNP_P4_123854_8646	NW_004515838.1	Scaffold333	8646	AA	GG	1946939084
SNP_P4_123856_12264	NW_004515838.1	Scaffold333	12264	AA	TT	1946939086
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SNP_P4_123861_12847	NW_004515838.1	Scaffold333	12847	CC	TT	1946939096
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SNP_P4_123863_16222	NW_004515838.1	Scaffold333	16222	GG	AA	1946939100
SNP_P4_123864_16503	NW_004515838.1	Scaffold333	16503	GG	AA	1946939102
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_123868_19736	NW_004515838.1	Scaffold333	19736	AA	TT	1946939110
SNP_P4_123869_19883	NW_004515838.1	Scaffold333	19883	TT	AA	1946939112
SNP_P4_123870_19978	NW_004515838.1	Scaffold333	19978	AA	GG	1946939114
SNP_P4_123871_20034	NW_004515838.1	Scaffold333	20034	AA	CC	1946939116
SNP_P4_123873_22519	NW_004515838.1	Scaffold333	22519	TT	CC	1946939118
SNP_P4_123874_22525	NW_004515838.1	Scaffold333	22525	CC	TT	1946939120
SNP_P4_123875_22621	NW_004515838.1	Scaffold333	22621	GG	TT	1946939122
SNP_P4_123876_22845	NW_004515838.1	Scaffold333	22845	CC	TT	1946939124
SNP_P4_123877_22890	NW_004515838.1	Scaffold333	22890	TT	GG	1946939126
SNP_P4_123878_26653	NW_004515838.1	Scaffold333	26653	TT	CC	1946939128
SNP_P4_123879_28021	NW_004515838.1	Scaffold333	28021	GG	AA	1946939130
SNP_P4_123880_28294	NW_004515838.1	Scaffold333	28294	TT	GG	1946939132
SNP_P4_123881_28295	NW_004515838.1	Scaffold333	28295	TT	CC	1946939134
SNP_P4_123882_28929	NW_004515838.1	Scaffold333	28929	CC	TT	1946939136
SNP_P4_123883_32491	NW_004515838.1	Scaffold333	32491	GG	CC	1946939138
SNP_P4_123885_44410	NW_004515838.1	Scaffold333	44410	CC	TT	1946939140
SNP_P4_123886_44423	NW_004515838.1	Scaffold333	44423	TT	AA	1946939142
SNP_P4_123887_44446	NW_004515838.1	Scaffold333	44446	AA	TT	1946939144
SNP_P4_123888_44644	NW_004515838.1	Scaffold333	44644	CC	AA	1946939146
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SNP_P4_123900_91596	NW_004515838.1	Scaffold333	91596	AA	GG	1946939170
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SNP_P4_123908_101193	NW_004515838.1	Scaffold333	101193	TT	CC	1946939184
SNP_P4_123909_101196	NW_004515838.1	Scaffold333	101196	AA	TT	1946939186
SNP_P4_123910_5047	NW_004515839.1	Scaffold334	5047	TT	CC	1946939188

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_123912_5080	NW_004515839.1	Scaffold334	5080	TT	CC	1946939192
SNP_P4_123913_5106	NW_004515839.1	Scaffold334	5106	AA	GG	1946939194
SNP_P4_123914_5166	NW_004515839.1	Scaffold334	5166	GG	AA	1946939196
SNP_P4_123915_5231	NW_004515839.1	Scaffold334	5231	AA	GG	1946939198
SNP_P4_123916_5249	NW_004515839.1	Scaffold334	5249	AA	TT	1946939200
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SNP_P4_123919_26517	NW_004515839.1	Scaffold334	26517	AA	TT	1946939206
SNP_P4_123920_40342	NW_004515839.1	Scaffold334	40342	AA	GG	1946939208
SNP_P4_123921_40763	NW_004515839.1	Scaffold334	40763	AA	GG	1946939210
SNP_P4_123922_40949	NW_004515839.1	Scaffold334	40949	GG	AA	1946939212
SNP_P4_123923_55993	NW_004515839.1	Scaffold334	55993	AA	GG	1946939214
SNP_P4_123924_56406	NW_004515839.1	Scaffold334	56406	AA	TT	1946939216
SNP_P4_123926_68850	NW_004515839.1	Scaffold334	68850	GG	AA	1946939218
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SNP_P4_123951_106322	NW_004515839.1	Scaffold334	106322	TT	CC	1946939267
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SNP_P4_123953_108805	NW_004515839.1	Scaffold334	108805	TT	CC	1946939271
SNP_P4_123954_108882	NW_004515839.1	Scaffold334	108882	GG	AA	1946939273

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_123957_109006	NW_004515839.1	Scaffold334	109006	GG	AA	1946939279
SNP_P4_123958_109017	NW_004515839.1	Scaffold334	109017	CC	TT	1946939281
SNP_P4_123959_109019	NW_004515839.1	Scaffold334	109019	TT	CC	1946939283
SNP_P4_123960_109020	NW_004515839.1	Scaffold334	109020	GG	AA	1946939285
SNP_P4_123961_109083	NW_004515839.1	Scaffold334	109083	TT	CC	1946939287
SNP_P4_123962_110607	NW_004515839.1	Scaffold334	110607	AA	CC	1946939289
SNP_P4_123963_110632	NW_004515839.1	Scaffold334	110632	CC	GG	1946939291
SNP_P4_123964_112484	NW_004515839.1	Scaffold334	112484	CC	TT	1946939293
SNP_P4_123965_112508	NW_004515839.1	Scaffold334	112508	GG	AA	1946939295
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SNP_P4_123967_156371	NW_004515839.1	Scaffold334	156371	TT	CC	1946939299
SNP_P4_123968_166830	NW_004515839.1	Scaffold334	166830	TT	CC	1946939301
SNP_P4_123969_184904	NW_004515839.1	Scaffold334	184904	CC	TT	1946939304
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SNP_P4_123972_28818	NW_004515840.1	Scaffold335	28818	AA	GG	1946939310
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SNP_P4_123974_28901	NW_004515840.1	Scaffold335	28901	TT	GG	1946939314
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SNP_P4_123977_29031	NW_004515840.1	Scaffold335	29031	CC	TT	1946939320
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SNP_P4_123979_37694	NW_004515840.1	Scaffold335	37694	TT	CC	1946939324
SNP_P4_123981_81477	NW_004515840.1	Scaffold335	81477	GG	AA	1946939326
SNP_P4_123982_84974	NW_004515840.1	Scaffold335	84974	TT	CC	1946939328
SNP_P4_123985_90914	NW_004515840.1	Scaffold335	90914	TT	AA	1946939330
SNP_P4_123986_91177	NW_004515840.1	Scaffold335	91177	TT	AA	1946939332
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SNP_P4_124000_137449	NW_004515840.1	Scaffold335	137449	AA	CC	1946939354
SNP_P4_124001_137465	NW_004515840.1	Scaffold335	137465	CC	GG	1946939357
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_124005_137785	NW_004515840.1	Scaffold335	137785	AA	GG	1946939365
SNP_P4_124007_137805	NW_004515840.1	Scaffold335	137805	AA	TT	1946939367
SNP_P4_124008_137808	NW_004515840.1	Scaffold335	137808	AA	TT	1946939369
SNP_P4_124009_137817	NW_004515840.1	Scaffold335	137817	TT	CC	1946939371
SNP_P4_124010_137833	NW_004515840.1	Scaffold335	137833	AA	GG	1946939373
SNP_P4_124011_137920	NW_004515840.1	Scaffold335	137920	AA	GG	1946939375
SNP_P4_124012_137975	NW_004515840.1	Scaffold335	137975	AA	GG	1946939377
SNP_P4_124013_138313	NW_004515840.1	Scaffold335	138313	CC	TT	1946939379
SNP_P4_124014_138824	NW_004515840.1	Scaffold335	138824	GG	CC	1946939381
SNP_P4_124015_139001	NW_004515840.1	Scaffold335	139001	TT	CC	1946939383
SNP_P4_124016_139151	NW_004515840.1	Scaffold335	139151	CC	AA	1946939385
SNP_P4_124017_139505	NW_004515840.1	Scaffold335	139505	GG	AA	1946939387
SNP_P4_124018_142244	NW_004515840.1	Scaffold335	142244	GG	AA	1946939389
SNP_P4_124019_142249	NW_004515840.1	Scaffold335	142249	CC	TT	1946939391
SNP_P4_124020_148158	NW_004515840.1	Scaffold335	148158	CC	GG	1946939393
SNP_P4_124021_157205	NW_004515840.1	Scaffold335	157205	TT	CC	1946939395
SNP_P4_124022_157218	NW_004515840.1	Scaffold335	157218	GG	AA	1946939397
SNP_P4_124023_157838	NW_004515840.1	Scaffold335	157838	GG	CC	1946939399
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SNP_P4_124025_157976	NW_004515840.1	Scaffold335	157976	TT	CC	1946939403
SNP_P4_124027_174825	NW_004515840.1	Scaffold335	174825	GG	TT	1946939405
SNP_P4_124028_187148	NW_004515840.1	Scaffold335	187148	CC	TT	1946939407
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SNP_P4_124030_187162	NW_004515840.1	Scaffold335	187162	AA	GG	1946939411
SNP_P4_124032_195396	NW_004515840.1	Scaffold335	195396	AA	GG	1946939413
SNP_P4_124033_195435	NW_004515840.1	Scaffold335	195435	AA	GG	1946939415
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SNP_P4_124038_208796	NW_004515840.1	Scaffold335	208796	CC	TT	1946939425
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SNP_P4_124040_210947	NW_004515840.1	Scaffold335	210947	CC	TT	1946939429
SNP_P4_124041_211140	NW_004515840.1	Scaffold335	211140	TT	GG	1946939431
SNP_P4_124042_216049	NW_004515840.1	Scaffold335	216049	TT	GG	1946939433
SNP_P4_124043_216296	NW_004515840.1	Scaffold335	216296	GG	AA	1946939435
SNP_P4_124044_219038	NW_004515840.1	Scaffold335	219038	CC	AA	1946939437
SNP_P4_124045_219048	NW_004515840.1	Scaffold335	219048	CC	TT	1946939439
SNP_P4_124046_219059	NW_004515840.1	Scaffold335	219059	TT	AA	1946939441
SNP_P4_124047_219060	NW_004515840.1	Scaffold335	219060	TT	CC	1946939443

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_124050_12075	NW_004515841.1	Scaffold336	12075	TT	AA	1946939449
SNP_P4_124051_12092	NW_004515841.1	Scaffold336	12092	AA	GG	1946939451
SNP_P4_124052_12112	NW_004515841.1	Scaffold336	12112	AA	CC	1946939453
SNP_P4_124053_12121	NW_004515841.1	Scaffold336	12121	GG	AA	1946939455
SNP_P4_124054_12124	NW_004515841.1	Scaffold336	12124	GG	TT	1946939457
SNP_P4_124055_12130	NW_004515841.1	Scaffold336	12130	AA	CC	1946939459
SNP_P4_124056_12180	NW_004515841.1	Scaffold336	12180	TT	CC	1946939461
SNP_P4_124057_12286	NW_004515841.1	Scaffold336	12286	GG	CC	1946939463
SNP_P4_124058_12438	NW_004515841.1	Scaffold336	12438	AA	GG	1946939465
SNP_P4_124059_12482	NW_004515841.1	Scaffold336	12482	TT	GG	1946939467
SNP_P4_124060_13226	NW_004515841.1	Scaffold336	13226	CC	TT	1946939469
SNP_P4_124061_13591	NW_004515841.1	Scaffold336	13591	AA	TT	1946939471
SNP_P4_124062_13677	NW_004515841.1	Scaffold336	13677	AA	GG	1946939473
SNP_P4_124063_13685	NW_004515841.1	Scaffold336	13685	CC	TT	1946939475
SNP_P4_124064_13711	NW_004515841.1	Scaffold336	13711	GG	AA	1946939477
SNP_P4_124065_13740	NW_004515841.1	Scaffold336	13740	AA	GG	1946939479
SNP_P4_124066_16005	NW_004515841.1	Scaffold336	16005	AA	GG	1946939481
SNP_P4_124067_16112	NW_004515841.1	Scaffold336	16112	TT	CC	1946939483
SNP_P4_124068_16315	NW_004515841.1	Scaffold336	16315	AA	GG	1946939485
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SNP_P4_124070_52842	NW_004515841.1	Scaffold336	52842	TT	CC	1946939489
SNP_P4_124071_62987	NW_004515841.1	Scaffold336	62987	GG	AA	1946939491
SNP_P4_124072_63808	NW_004515841.1	Scaffold336	63808	AA	GG	1946939493
SNP_P4_124073_64062	NW_004515841.1	Scaffold336	64062	GG	CC	1946939495
SNP_P4_124074_64895	NW_004515841.1	Scaffold336	64895	AA	TT	1946939497
SNP_P4_124075_64943	NW_004515841.1	Scaffold336	64943	AA	GG	1946939499
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SNP_P4_124077_65307	NW_004515841.1	Scaffold336	65307	TT	CC	1946939503
SNP_P4_124078_65436	NW_004515841.1	Scaffold336	65436	TT	GG	1946939505
SNP_P4_124079_67784	NW_004515841.1	Scaffold336	67784	AA	GG	1946939507
SNP_P4_124080_68747	NW_004515841.1	Scaffold336	68747	TT	GG	1946939509
SNP_P4_124081_68798	NW_004515841.1	Scaffold336	68798	AA	GG	1946939511
SNP_P4_124082_68816	NW_004515841.1	Scaffold336	68816	AA	CC	1946939513
SNP_P4_124083_68830	NW_004515841.1	Scaffold336	68830	TT	AA	1946939515
SNP_P4_124084_68864	NW_004515841.1	Scaffold336	68864	GG	TT	1946939517
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SNP_P4_124086_90971	NW_004515841.1	Scaffold336	90971	AA	TT	1946939521
SNP_P4_124087_90981	NW_004515841.1	Scaffold336	90981	AA	GG	1946939523
SNP_P4_124088_99303	NW_004515841.1	Scaffold336	99303	GG	CC	1946939525
SNP_P4_124089_105950	NW_004515841.1	Scaffold336	105950	AA	GG	1946939527

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_124091_106120	NW_004515841.1	Scaffold336	106120	GG	AA	1946939531
SNP_P4_124092_110732	NW_004515841.1	Scaffold336	110732	TT	AA	1946939533
SNP_P4_124093_137332	NW_004515841.1	Scaffold336	137332	TT	AA	1946939535
SNP_P4_124094_174699	NW_004515841.1	Scaffold336	174699	CC	AA	1946939537
SNP_P4_124095_174703	NW_004515841.1	Scaffold336	174703	GG	TT	1946939539
SNP_P4_124096_174715	NW_004515841.1	Scaffold336	174715	CC	TT	1946939541
SNP_P4_124097_174717	NW_004515841.1	Scaffold336	174717	AA	TT	1946939543
SNP_P4_124098_174740	NW_004515841.1	Scaffold336	174740	AA	GG	1946939545
SNP_P4_124099_174754	NW_004515841.1	Scaffold336	174754	CC	TT	1946939547
SNP_P4_124100_174757	NW_004515841.1	Scaffold336	174757	AA	GG	1946939549
SNP_P4_124101_174761	NW_004515841.1	Scaffold336	174761	GG	TT	1946939551
SNP_P4_124102_175028	NW_004515841.1	Scaffold336	175028	TT	GG	1946939553
SNP_P4_124103_177667	NW_004515841.1	Scaffold336	177667	TT	CC	1946939555
SNP_P4_124104_177676	NW_004515841.1	Scaffold336	177676	CC	GG	1946939557
SNP_P4_124105_178501	NW_004515841.1	Scaffold336	178501	AA	CC	1946939559
SNP_P4_124106_178545	NW_004515841.1	Scaffold336	178545	TT	AA	1946939561
SNP_P4_124107_178852	NW_004515841.1	Scaffold336	178852	TT	AA	1946939563
SNP_P4_124108_178959	NW_004515841.1	Scaffold336	178959	AA	CC	1946939565
SNP_P4_124109_184524	NW_004515841.1	Scaffold336	184524	TT	AA	1946939567
SNP_P4_124112_187863	NW_004515841.1	Scaffold336	187863	AA	GG	1946939569
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SNP_P4_124132_400348	NW_004515841.1	Scaffold336	400348	GG	AA	1946939602
SNP_P4_124133_400425	NW_004515841.1	Scaffold336	400425	TT	GG	1946939604
SNP_P4_124134_400437	NW_004515841.1	Scaffold336	400437	TT	CC	1946939606
SNP_P4_124135_401379	NW_004515841.1	Scaffold336	401379	CC	TT	1946939607
SNP_P4_124136_401381	NW_004515841.1	Scaffold336	401381	CC	TT	1946939608
SNP_P4_124137_401383	NW_004515841.1	Scaffold336	401383	AA	GG	1946939609

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_124140_438915	NW_004515841.1	Scaffold336	438915	AA	GG	1946939615
SNP_P4_124142_455682	NW_004515841.1	Scaffold336	455682	CC	AA	1946939617
SNP_P4_124143_457446	NW_004515841.1	Scaffold336	457446	AA	CC	1946939619
SNP_P4_124144_493418	NW_004515841.1	Scaffold336	493418	CC	TT	1946939621
SNP_P4_124145_530113	NW_004515841.1	Scaffold336	530113	AA	CC	1946939623
SNP_P4_124146_530124	NW_004515841.1	Scaffold336	530124	AA	GG	1946939625
SNP_P4_124147_530174	NW_004515841.1	Scaffold336	530174	CC	TT	1946939627
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SNP_P4_124149_538344	NW_004515841.1	Scaffold336	538344	GG	AA	1946939631
SNP_P4_124150_538364	NW_004515841.1	Scaffold336	538364	TT	CC	1946939633
SNP_P4_124151_538373	NW_004515841.1	Scaffold336	538373	AA	GG	1946939635
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SNP_P4_124153_538409	NW_004515841.1	Scaffold336	538409	GG	AA	1946939639
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SNP_P4_124178_583640	NW_004515841.1	Scaffold336	583640	AA	GG	1946939688
SNP_P4_124179_583658	NW_004515841.1	Scaffold336	583658	TT	CC	1946939690
SNP_P4_124180_583664	NW_004515841.1	Scaffold336	583664	AA	GG	1946939692

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_124181_583697	NW_004515841.1	Scaffold336	583697	AA	CC	1946939694
SNP_P4_124182_584021	NW_004515841.1	Scaffold336	584021	AA	GG	1946939696
SNP_P4_124183_614618	NW_004515841.1	Scaffold336	614618	CC	AA	1946939698
SNP_P4_124184_616547	NW_004515841.1	Scaffold336	616547	AA	GG	1946939700
SNP_P4_124185_616959	NW_004515841.1	Scaffold336	616959	CC	TT	1946939702
SNP_P4_124186_617479	NW_004515841.1	Scaffold336	617479	CC	AA	1946939704
SNP_P4_124188_623475	NW_004515841.1	Scaffold336	623475	TT	AA	1946939706
SNP_P4_124189_633811	NW_004515841.1	Scaffold336	633811	GG	AA	1946939708
SNP_P4_124190_633900	NW_004515841.1	Scaffold336	633900	AA	GG	1946939710
SNP_P4_124192_634151	NW_004515841.1	Scaffold336	634151	GG	AA	1946939712
SNP_P4_124193_634155	NW_004515841.1	Scaffold336	634155	AA	GG	1946939714
SNP_P4_124194_634248	NW_004515841.1	Scaffold336	634248	TT	CC	1946939716
SNP_P4_124195_634266	NW_004515841.1	Scaffold336	634266	AA	GG	1946939718
SNP_P4_124196_634377	NW_004515841.1	Scaffold336	634377	AA	GG	1946939720
SNP_P4_124197_647295	NW_004515841.1	Scaffold336	647295	AA	TT	1946939722
SNP_P4_124198_676262	NW_004515841.1	Scaffold336	676262	TT	CC	1946939724
SNP_P4_124199_709844	NW_004515841.1	Scaffold336	709844	AA	GG	1946939726
SNP_P4_124200_709868	NW_004515841.1	Scaffold336	709868	GG	AA	1946939728
SNP_P4_124201_709937	NW_004515841.1	Scaffold336	709937	TT	GG	1946939730
SNP_P4_124202_710048	NW_004515841.1	Scaffold336	710048	AA	GG	1946939732
SNP_P4_124203_710068	NW_004515841.1	Scaffold336	710068	GG	TT	1946939734
SNP_P4_124204_710249	NW_004515841.1	Scaffold336	710249	TT	CC	1946939736
SNP_P4_124205_710286	NW_004515841.1	Scaffold336	710286	AA	GG	1946939738
SNP_P4_124207_710497	NW_004515841.1	Scaffold336	710497	CC	TT	1946939740
SNP_P4_124208_710499	NW_004515841.1	Scaffold336	710499	TT	CC	1946939742
SNP_P4_124209_757522	NW_004515841.1	Scaffold336	757522	AA	GG	1946939744
SNP_P4_124210_757523	NW_004515841.1	Scaffold336	757523	TT	GG	1946939746
SNP_P4_124211_757678	NW_004515841.1	Scaffold336	757678	AA	TT	1946939748
SNP_P4_124212_758051	NW_004515841.1	Scaffold336	758051	TT	CC	1946939750
SNP_P4_124213_758058	NW_004515841.1	Scaffold336	758058	AA	GG	1946939752
SNP_P4_124214_758059	NW_004515841.1	Scaffold336	758059	TT	CC	1946939754
SNP_P4_124215_758076	NW_004515841.1	Scaffold336	758076	AA	GG	1946939756
SNP_P4_124216_760726	NW_004515841.1	Scaffold336	760726	CC	AA	1946939758
SNP_P4_124217_763146	NW_004515841.1	Scaffold336	763146	TT	CC	1946939760
SNP_P4_124218_764898	NW_004515841.1	Scaffold336	764898	GG	TT	1946939762
SNP_P4_124219_768063	NW_004515841.1	Scaffold336	768063	TT	GG	1946939764
SNP_P4_124221_768328	NW_004515841.1	Scaffold336	768328	TT	CC	1946939766
SNP_P4_124222_784790	NW_004515841.1	Scaffold336	784790	AA	GG	1946939768
SNP_P4_124223_785628	NW_004515841.1	Scaffold336	785628	TT	CC	1946939770
SNP_P4_124224_798078	NW_004515841.1	Scaffold336	798078	TT	AA	1946939772
SNP_P4_124225_800641	NW_004515841.1	Scaffold336	800641	CC	TT	1946939774
SNP_P4_124226_805407	NW_004515841.1	Scaffold336	805407	AA	GG	1946939776

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_124228_805764	NW_004515841.1	Scaffold336	805764	TT	CC	1946939780
SNP_P4_124229_805908	NW_004515841.1	Scaffold336	805908	GG	AA	1946939782
SNP_P4_124230_805909	NW_004515841.1	Scaffold336	805909	AA	GG	1946939784
SNP_P4_124231_822030	NW_004515841.1	Scaffold336	822030	CC	AA	1946939786
SNP_P4_124232_864558	NW_004515841.1	Scaffold336	864558	AA	CC	1946939788
SNP_P4_124233_867454	NW_004515841.1	Scaffold336	867454	AA	GG	1946939790
SNP_P4_124234_867455	NW_004515841.1	Scaffold336	867455	AA	GG	1946939792
SNP_P4_124235_867505	NW_004515841.1	Scaffold336	867505	AA	TT	1946939794
SNP_P4_124236_867806	NW_004515841.1	Scaffold336	867806	GG	AA	1946939796
SNP_P4_124237_71170	NW_004515842.1	Scaffold338	71170	TT	CC	1946939798
SNP_P4_124238_71253	NW_004515842.1	Scaffold338	71253	AA	TT	1946939800
SNP_P4_124239_71497	NW_004515842.1	Scaffold338	71497	AA	GG	1946939802
SNP_P4_124240_71633	NW_004515842.1	Scaffold338	71633	CC	TT	1946939804
SNP_P4_124241_71725	NW_004515842.1	Scaffold338	71725	GG	AA	1946939806
SNP_P4_124243_8337	NW_004515843.1	Scaffold340	8337	TT	AA	1946939808
SNP_P4_124244_8416	NW_004515843.1	Scaffold340	8416	AA	CC	1946939810
SNP_P4_124245_8439	NW_004515843.1	Scaffold340	8439	CC	TT	1946939812
SNP_P4_124246_8754	NW_004515843.1	Scaffold340	8754	GG	AA	1946939814
SNP_P4_124247_9819	NW_004515843.1	Scaffold340	9819	CC	TT	1946939816
SNP_P4_124248_9874	NW_004515843.1	Scaffold340	9874	GG	AA	1946939818
SNP_P4_124249_10404	NW_004515843.1	Scaffold340	10404	GG	AA	1946939820
SNP_P4_124250_10478	NW_004515843.1	Scaffold340	10478	AA	GG	1946939822
SNP_P4_124251_12093	NW_004515843.1	Scaffold340	12093	AA	TT	1946939824
SNP_P4_124252_12123	NW_004515843.1	Scaffold340	12123	AA	CC	1946939826
SNP_P4_124253_12171	NW_004515843.1	Scaffold340	12171	TT	AA	1946939828
SNP_P4_124254_12175	NW_004515843.1	Scaffold340	12175	CC	AA	1946939830
SNP_P4_124255_12311	NW_004515843.1	Scaffold340	12311	GG	AA	1946939832
SNP_P4_124256_12394	NW_004515843.1	Scaffold340	12394	CC	AA	1946939834
SNP_P4_124257_12399	NW_004515843.1	Scaffold340	12399	TT	CC	1946939836
SNP_P4_124258_12463	NW_004515843.1	Scaffold340	12463	CC	TT	1946939838
SNP_P4_124259_18643	NW_004515843.1	Scaffold340	18643	AA	GG	1946939840
SNP_P4_124261_20064	NW_004515843.1	Scaffold340	20064	GG	CC	1946939842
SNP_P4_124262_23426	NW_004515843.1	Scaffold340	23426	CC	TT	1946939844
SNP_P4_124263_23481	NW_004515843.1	Scaffold340	23481	TT	CC	1946939846
SNP_P4_124264_37627	NW_004515843.1	Scaffold340	37627	GG	CC	1946939848
SNP_P4_124265_38141	NW_004515843.1	Scaffold340	38141	TT	CC	1946939850
SNP_P4_124266_41016	NW_004515843.1	Scaffold340	41016	AA	GG	1946939852
SNP_P4_124267_45581	NW_004515843.1	Scaffold340	45581	GG	AA	1946939854
SNP_P4_124268_54205	NW_004515843.1	Scaffold340	54205	GG	AA	1946939856
SNP_P4_124269_57253	NW_004515843.1	Scaffold340	57253	CC	GG	1946939858
SNP_P4_124271_58532	NW_004515843.1	Scaffold340	58532	GG	AA	1946939860

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_124276_61818	NW_004515843.1	Scaffold340	61818	CC	TT	1946939864
SNP_P4_124277_66358	NW_004515843.1	Scaffold340	66358	AA	CC	1946939866
SNP_P4_124278_66609	NW_004515843.1	Scaffold340	66609	CC	TT	1946939868
SNP_P4_124279_68827	NW_004515843.1	Scaffold340	68827	CC	TT	1946939870
SNP_P4_124280_68876	NW_004515843.1	Scaffold340	68876	AA	GG	1946939872
SNP_P4_124281_68884	NW_004515843.1	Scaffold340	68884	TT	CC	1946939874
SNP_P4_124282_68892	NW_004515843.1	Scaffold340	68892	AA	GG	1946939876
SNP_P4_124283_68898	NW_004515843.1	Scaffold340	68898	TT	CC	1946939878
SNP_P4_124284_68953	NW_004515843.1	Scaffold340	68953	CC	TT	1946939880
SNP_P4_124285_68955	NW_004515843.1	Scaffold340	68955	AA	GG	1946939882
SNP_P4_124286_69182	NW_004515843.1	Scaffold340	69182	TT	CC	1946939884
SNP_P4_124287_69332	NW_004515843.1	Scaffold340	69332	GG	AA	1946939886
SNP_P4_124288_69451	NW_004515843.1	Scaffold340	69451	GG	CC	1946939888
SNP_P4_124289_72753	NW_004515843.1	Scaffold340	72753	AA	TT	1946939890
SNP_P4_124290_77355	NW_004515843.1	Scaffold340	77355	GG	TT	1946939892
SNP_P4_124291_77387	NW_004515843.1	Scaffold340	77387	AA	GG	1946939894
SNP_P4_124292_77545	NW_004515843.1	Scaffold340	77545	TT	CC	1946939896
SNP_P4_124293_78292	NW_004515843.1	Scaffold340	78292	TT	CC	1946939898
SNP_P4_124294_90216	NW_004515843.1	Scaffold340	90216	CC	TT	1946939900
SNP_P4_124295_90236	NW_004515843.1	Scaffold340	90236	CC	TT	1946939902
SNP_P4_124296_90585	NW_004515843.1	Scaffold340	90585	TT	GG	1946939904
SNP_P4_124297_90701	NW_004515843.1	Scaffold340	90701	GG	AA	1946939906
SNP_P4_124298_90716	NW_004515843.1	Scaffold340	90716	GG	AA	1946939908
SNP_P4_124299_90732	NW_004515843.1	Scaffold340	90732	GG	AA	1946939910
SNP_P4_124300_90790	NW_004515843.1	Scaffold340	90790	CC	TT	1946939912
SNP_P4_124301_90820	NW_004515843.1	Scaffold340	90820	AA	CC	1946939914
SNP_P4_124303_91163	NW_004515843.1	Scaffold340	91163	AA	TT	1946939916
SNP_P4_124304_91168	NW_004515843.1	Scaffold340	91168	TT	AA	1946939918
SNP_P4_124305_91182	NW_004515843.1	Scaffold340	91182	TT	GG	1946939920
SNP_P4_124306_91324	NW_004515843.1	Scaffold340	91324	CC	GG	1946939922
SNP_P4_124307_94253	NW_004515843.1	Scaffold340	94253	AA	CC	1946939924
SNP_P4_124308_94881	NW_004515843.1	Scaffold340	94881	AA	GG	1946939926
SNP_P4_124309_98141	NW_004515843.1	Scaffold340	98141	GG	TT	1946939928
SNP_P4_124312_100153	NW_004515843.1	Scaffold340	100153	GG	AA	1946939930
SNP_P4_124313_100176	NW_004515843.1	Scaffold340	100176	GG	AA	1946939932
SNP_P4_124314_100622	NW_004515843.1	Scaffold340	100622	CC	TT	1946939934
SNP_P4_124316_102955	NW_004515843.1	Scaffold340	102955	GG	AA	1946939936
SNP_P4_124317_109212	NW_004515843.1	Scaffold340	109212	AA	GG	1946939938
SNP_P4_124319_110305	NW_004515843.1	Scaffold340	110305	AA	GG	1946939940
SNP_P4_124320_110485	NW_004515843.1	Scaffold340	110485	TT	CC	1946939942
SNP_P4_124321_110521	NW_004515843.1	Scaffold340	110521	GG	TT	1946939944

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_124323_110609	NW_004515843.1	Scaffold340	110609	TT	CC	1946939948
SNP_P4_124324_111660	NW_004515843.1	Scaffold340	111660	GG	AA	1946939950
SNP_P4_124325_111738	NW_004515843.1	Scaffold340	111738	AA	CC	1946939952
SNP_P4_124326_111784	NW_004515843.1	Scaffold340	111784	TT	CC	1946939954
SNP_P4_124327_114060	NW_004515843.1	Scaffold340	114060	CC	TT	1946939956
SNP_P4_124328_122373	NW_004515843.1	Scaffold340	122373	AA	GG	1946939958
SNP_P4_124329_122408	NW_004515843.1	Scaffold340	122408	GG	AA	1946939960
SNP_P4_124330_122417	NW_004515843.1	Scaffold340	122417	CC	AA	1946939962
SNP_P4_124331_131551	NW_004515843.1	Scaffold340	131551	AA	GG	1946939964
SNP_P4_124332_132105	NW_004515843.1	Scaffold340	132105	AA	GG	1946939966
SNP_P4_124333_133390	NW_004515843.1	Scaffold340	133390	GG	AA	1946939968
SNP_P4_124334_134555	NW_004515843.1	Scaffold340	134555	TT	CC	1946939970
SNP_P4_124335_137135	NW_004515843.1	Scaffold340	137135	GG	AA	1946939972
SNP_P4_124336_137201	NW_004515843.1	Scaffold340	137201	TT	AA	1946939974
SNP_P4_124337_137222	NW_004515843.1	Scaffold340	137222	AA	GG	1946939976
SNP_P4_124338_138236	NW_004515843.1	Scaffold340	138236	AA	GG	1946939979
SNP_P4_124339_138363	NW_004515843.1	Scaffold340	138363	GG	CC	1946939981
SNP_P4_124340_138818	NW_004515843.1	Scaffold340	138818	TT	CC	1946939983
SNP_P4_124341_141120	NW_004515843.1	Scaffold340	141120	CC	AA	1946939985
SNP_P4_124342_141121	NW_004515843.1	Scaffold340	141121	AA	TT	1946939987
SNP_P4_124343_143340	NW_004515843.1	Scaffold340	143340	GG	CC	1946939989
SNP_P4_124344_144434	NW_004515843.1	Scaffold340	144434	GG	TT	1946939991
SNP_P4_124345_145128	NW_004515843.1	Scaffold340	145128	AA	CC	1946939993
SNP_P4_124346_145963	NW_004515843.1	Scaffold340	145963	AA	GG	1946939995
SNP_P4_124348_148276	NW_004515843.1	Scaffold340	148276	CC	TT	1946939997
SNP_P4_124349_155737	NW_004515843.1	Scaffold340	155737	CC	TT	1946939999
SNP_P4_124350_155980	NW_004515843.1	Scaffold340	155980	GG	TT	1946940001
SNP_P4_124351_156714	NW_004515843.1	Scaffold340	156714	TT	CC	1946940003
SNP_P4_124352_156945	NW_004515843.1	Scaffold340	156945	AA	GG	1946940005
SNP_P4_124353_157257	NW_004515843.1	Scaffold340	157257	GG	TT	1946940007
SNP_P4_124356_162117	NW_004515843.1	Scaffold340	162117	GG	AA	1946940009
SNP_P4_124357_162152	NW_004515843.1	Scaffold340	162152	CC	TT	1946940011
SNP_P4_124358_162355	NW_004515843.1	Scaffold340	162355	GG	TT	1946940013
SNP_P4_124359_162637	NW_004515843.1	Scaffold340	162637	TT	CC	1946940015
SNP_P4_124360_162722	NW_004515843.1	Scaffold340	162722	CC	AA	1946940017
SNP_P4_124361_163512	NW_004515843.1	Scaffold340	163512	CC	TT	1946940019
SNP_P4_124362_163883	NW_004515843.1	Scaffold340	163883	GG	TT	1946940021
SNP_P4_124363_164014	NW_004515843.1	Scaffold340	164014	CC	TT	1946940023
SNP_P4_124364_164027	NW_004515843.1	Scaffold340	164027	GG	AA	1946940025
SNP_P4_124365_164039	NW_004515843.1	Scaffold340	164039	GG	AA	1946940027
SNP_P4_124366_164266	NW_004515843.1	Scaffold340	164266	AA	GG	1946940029

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_124370_172119	NW_004515843.1	Scaffold340	172119	CC	AA	1946940033
SNP_P4_124371_173558	NW_004515843.1	Scaffold340	173558	GG	AA	1946940035
SNP_P4_124372_174509	NW_004515843.1	Scaffold340	174509	AA	TT	1946940037
SNP_P4_124373_175370	NW_004515843.1	Scaffold340	175370	TT	GG	1946940039
SNP_P4_124374_175422	NW_004515843.1	Scaffold340	175422	AA	TT	1946940041
SNP_P4_124375_186424	NW_004515843.1	Scaffold340	186424	CC	TT	1946940043
SNP_P4_124376_190492	NW_004515843.1	Scaffold340	190492	TT	CC	1946940045
SNP_P4_124379_201208	NW_004515843.1	Scaffold340	201208	AA	GG	1946940047
SNP_P4_124380_203790	NW_004515843.1	Scaffold340	203790	GG	TT	1946940049
SNP_P4_124381_204166	NW_004515843.1	Scaffold340	204166	GG	AA	1946940051
SNP_P4_124382_204367	NW_004515843.1	Scaffold340	204367	AA	GG	1946940053
SNP_P4_124383_205793	NW_004515843.1	Scaffold340	205793	CC	TT	1946940055
SNP_P4_124384_206180	NW_004515843.1	Scaffold340	206180	AA	GG	1946940057
SNP_P4_124385_206181	NW_004515843.1	Scaffold340	206181	GG	AA	1946940059
SNP_P4_124386_206461	NW_004515843.1	Scaffold340	206461	GG	AA	1946940061
SNP_P4_124387_210249	NW_004515843.1	Scaffold340	210249	GG	AA	1946940064
SNP_P4_124389_216736	NW_004515843.1	Scaffold340	216736	CC	AA	1946940066
SNP_P4_124390_216807	NW_004515843.1	Scaffold340	216807	AA	GG	1946940068
SNP_P4_124392_219176	NW_004515843.1	Scaffold340	219176	CC	TT	1946940070
SNP_P4_124393_219397	NW_004515843.1	Scaffold340	219397	CC	TT	1946940072
SNP_P4_124394_221238	NW_004515843.1	Scaffold340	221238	CC	TT	1946940074
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SNP_P4_124399_226255	NW_004515843.1	Scaffold340	226255	CC	TT	1946940082
SNP_P4_124400_226674	NW_004515843.1	Scaffold340	226674	CC	TT	1946940084
SNP_P4_124401_227247	NW_004515843.1	Scaffold340	227247	AA	TT	1946940086
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SNP_P4_124405_238445	NW_004515843.1	Scaffold340	238445	GG	TT	1946940094
SNP_P4_124406_238465	NW_004515843.1	Scaffold340	238465	CC	TT	1946940096
SNP_P4_124407_238529	NW_004515843.1	Scaffold340	238529	CC	AA	1946940098
SNP_P4_124408_242038	NW_004515843.1	Scaffold340	242038	GG	AA	1946940100
SNP_P4_124409_242042	NW_004515843.1	Scaffold340	242042	AA	GG	1946940102
SNP_P4_124410_242097	NW_004515843.1	Scaffold340	242097	AA	GG	1946940104
SNP_P4_124411_242131	NW_004515843.1	Scaffold340	242131	TT	CC	1946940106
SNP_P4_124412_242159	NW_004515843.1	Scaffold340	242159	AA	GG	1946940108
SNP_P4_124413_242168	NW_004515843.1	Scaffold340	242168	CC	TT	1946940110
SNP_P4_124414_242199	NW_004515843.1	Scaffold340	242199	TT	GG	1946940112
SNP_P4_124415_242225	NW_004515843.1	Scaffold340	242225	AA	CC	1946940114

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_124417_242472	NW_004515843.1	Scaffold340	242472	TT	GG	1946940118
SNP_P4_124418_242473	NW_004515843.1	Scaffold340	242473	GG	TT	1946940120
SNP_P4_124419_243384	NW_004515843.1	Scaffold340	243384	TT	CC	1946940122
SNP_P4_124420_248898	NW_004515843.1	Scaffold340	248898	AA	GG	1946940124
SNP_P4_124421_249279	NW_004515843.1	Scaffold340	249279	CC	TT	1946940126
SNP_P4_124423_250063	NW_004515843.1	Scaffold340	250063	AA	GG	1946940128
SNP_P4_124425_252009	NW_004515843.1	Scaffold340	252009	AA	TT	1946940130
SNP_P4_124426_252010	NW_004515843.1	Scaffold340	252010	TT	AA	1946940132
SNP_P4_124429_259960	NW_004515843.1	Scaffold340	259960	GG	AA	1946940134
SNP_P4_124430_262591	NW_004515843.1	Scaffold340	262591	AA	GG	1946940136
SNP_P4_124431_264400	NW_004515843.1	Scaffold340	264400	AA	GG	1946940138
SNP_P4_124432_264491	NW_004515843.1	Scaffold340	264491	GG	AA	1946940140
SNP_P4_124433_265216	NW_004515843.1	Scaffold340	265216	AA	GG	1946940142
SNP_P4_124434_265228	NW_004515843.1	Scaffold340	265228	AA	GG	1946940144
SNP_P4_124435_270282	NW_004515843.1	Scaffold340	270282	GG	CC	1946940146
SNP_P4_124436_274422	NW_004515843.1	Scaffold340	274422	TT	GG	1946940148
SNP_P4_124438_274939	NW_004515843.1	Scaffold340	274939	CC	GG	1946940150
SNP_P4_124439_275496	NW_004515843.1	Scaffold340	275496	TT	AA	1946940152
SNP_P4_124440_276085	NW_004515843.1	Scaffold340	276085	CC	TT	1946940155
SNP_P4_124441_277783	NW_004515843.1	Scaffold340	277783	CC	TT	1946940157
SNP_P4_124442_281806	NW_004515843.1	Scaffold340	281806	AA	GG	1946940159
SNP_P4_124443_282212	NW_004515843.1	Scaffold340	282212	AA	GG	1946940161
SNP_P4_124444_283994	NW_004515843.1	Scaffold340	283994	CC	TT	1946940163
SNP_P4_124446_284411	NW_004515843.1	Scaffold340	284411	GG	TT	1946940165
SNP_P4_124447_287650	NW_004515843.1	Scaffold340	287650	GG	AA	1946940167
SNP_P4_124450_289989	NW_004515843.1	Scaffold340	289989	AA	GG	1946940169
SNP_P4_124451_290022	NW_004515843.1	Scaffold340	290022	CC	TT	1946940171
SNP_P4_124452_290750	NW_004515843.1	Scaffold340	290750	GG	AA	1946940173
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SNP_P4_124455_295069	NW_004515843.1	Scaffold340	295069	CC	TT	1946940177
SNP_P4_124456_295097	NW_004515843.1	Scaffold340	295097	AA	TT	1946940179
SNP_P4_124457_295473	NW_004515843.1	Scaffold340	295473	TT	CC	1946940181
SNP_P4_124458_295497	NW_004515843.1	Scaffold340	295497	TT	AA	1946940183
SNP_P4_124459_296648	NW_004515843.1	Scaffold340	296648	CC	TT	1946940185
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SNP_P4_124461_298244	NW_004515843.1	Scaffold340	298244	CC	TT	1946940189
SNP_P4_124462_298995	NW_004515843.1	Scaffold340	298995	CC	TT	1946940191
SNP_P4_124463_299011	NW_004515843.1	Scaffold340	299011	TT	CC	1946940193
SNP_P4_124465_300669	NW_004515843.1	Scaffold340	300669	CC	TT	1946940195
SNP_P4_124466_313707	NW_004515843.1	Scaffold340	313707	AA	TT	1946940197
SNP_P4_124467_315091	NW_004515843.1	Scaffold340	315091	TT	CC	1946940199

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_124470_316374	NW_004515843.1	Scaffold340	316374	CC	TT	1946940203
SNP_P4_124473_318121	NW_004515843.1	Scaffold340	318121	GG	AA	1946940205
SNP_P4_124474_318320	NW_004515843.1	Scaffold340	318320	TT	GG	1946940207
SNP_P4_124475_318510	NW_004515843.1	Scaffold340	318510	CC	TT	1946940210
SNP_P4_124476_669	NW_004515844.1	Scaffold341	669	AA	GG	1946940212
SNP_P4_124477_879	NW_004515844.1	Scaffold341	879	TT	CC	1946940214
SNP_P4_124478_3712	NW_004515844.1	Scaffold341	3712	AA	GG	1946940216
SNP_P4_124479_3924	NW_004515844.1	Scaffold341	3924	CC	TT	1946940218
SNP_P4_124480_4194	NW_004515844.1	Scaffold341	4194	TT	CC	1946940220
SNP_P4_124481_63434	NW_004515844.1	Scaffold341	63434	GG	AA	1946940222
SNP_P4_124482_67905	NW_004515844.1	Scaffold341	67905	TT	CC	1946940224
SNP_P4_124483_68166	NW_004515844.1	Scaffold341	68166	AA	CC	1946940226
SNP_P4_124484_68884	NW_004515844.1	Scaffold341	68884	AA	GG	1946940228
SNP_P4_124485_90737	NW_004515844.1	Scaffold341	90737	GG	TT	1946940230
SNP_P4_124486_90798	NW_004515844.1	Scaffold341	90798	CC	TT	1946940232
SNP_P4_124487_91229	NW_004515844.1	Scaffold341	91229	TT	AA	1946940234
SNP_P4_124488_91246	NW_004515844.1	Scaffold341	91246	TT	GG	1946940236
SNP_P4_124489_92581	NW_004515844.1	Scaffold341	92581	GG	AA	1946940238
SNP_P4_124490_92630	NW_004515844.1	Scaffold341	92630	TT	GG	1946940240
SNP_P4_124491_92761	NW_004515844.1	Scaffold341	92761	GG	AA	1946940242
SNP_P4_124492_92769	NW_004515844.1	Scaffold341	92769	AA	GG	1946940244
SNP_P4_124493_92770	NW_004515844.1	Scaffold341	92770	CC	TT	1946940246
SNP_P4_124494_92775	NW_004515844.1	Scaffold341	92775	AA	CC	1946940248
SNP_P4_124495_101170	NW_004515844.1	Scaffold341	101170	TT	CC	1946940250
SNP_P4_124496_101828	NW_004515844.1	Scaffold341	101828	TT	AA	1946940252
SNP_P4_124497_102427	NW_004515844.1	Scaffold341	102427	TT	CC	1946940254
SNP_P4_124498_116228	NW_004515844.1	Scaffold341	116228	AA	GG	1946940256
SNP_P4_124499_116259	NW_004515844.1	Scaffold341	116259	TT	CC	1946940258
SNP_P4_124500_116299	NW_004515844.1	Scaffold341	116299	GG	TT	1946940260
SNP_P4_124502_127398	NW_004515844.1	Scaffold341	127398	GG	CC	1946940262
SNP_P4_124504_135048	NW_004515844.1	Scaffold341	135048	GG	CC	1946940264
SNP_P4_124505_135069	NW_004515844.1	Scaffold341	135069	GG	AA	1946940266
SNP_P4_124506_135144	NW_004515844.1	Scaffold341	135144	AA	GG	1946940268
SNP_P4_124507_135151	NW_004515844.1	Scaffold341	135151	TT	CC	1946940270
SNP_P4_124508_135180	NW_004515844.1	Scaffold341	135180	TT	GG	1946940272
SNP_P4_124510_135265	NW_004515844.1	Scaffold341	135265	AA	GG	1946940274
SNP_P4_124512_135377	NW_004515844.1	Scaffold341	135377	TT	AA	1946940276
SNP_P4_124513_135509	NW_004515844.1	Scaffold341	135509	GG	AA	1946940278
SNP_P4_124514_135546	NW_004515844.1	Scaffold341	135546	TT	AA	1946940280
SNP_P4_124515_135569	NW_004515844.1	Scaffold341	135569	GG	TT	1946940282
SNP_P4_124516_137194	NW_004515844.1	Scaffold341	137194	AA	CC	1946940284

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_124518_137484	NW_004515844.1	Scaffold341	137484	AA	GG	1946940289
SNP_P4_124519_137511	NW_004515844.1	Scaffold341	137511	AA	GG	1946940291
SNP_P4_124520_138015	NW_004515844.1	Scaffold341	138015	CC	TT	1946940293
SNP_P4_124521_138027	NW_004515844.1	Scaffold341	138027	CC	GG	1946940295
SNP_P4_124522_138033	NW_004515844.1	Scaffold341	138033	AA	CC	1946940297
SNP_P4_124523_144688	NW_004515844.1	Scaffold341	144688	TT	AA	1946940299
SNP_P4_124524_144852	NW_004515844.1	Scaffold341	144852	AA	CC	1946940301
SNP_P4_124525_144859	NW_004515844.1	Scaffold341	144859	CC	TT	1946940303
SNP_P4_124527_144879	NW_004515844.1	Scaffold341	144879	AA	GG	1946940305
SNP_P4_124528_155070	NW_004515844.1	Scaffold341	155070	CC	TT	1946940307
SNP_P4_124529_159346	NW_004515844.1	Scaffold341	159346	GG	AA	1946940309
SNP_P4_124530_159360	NW_004515844.1	Scaffold341	159360	CC	TT	1946940311
SNP_P4_124532_184974	NW_004515844.1	Scaffold341	184974	AA	CC	1946940313
SNP_P4_124533_185004	NW_004515844.1	Scaffold341	185004	AA	GG	1946940315
SNP_P4_124534_185007	NW_004515844.1	Scaffold341	185007	TT	CC	1946940317
SNP_P4_124535_185029	NW_004515844.1	Scaffold341	185029	AA	TT	1946940319
SNP_P4_124536_185055	NW_004515844.1	Scaffold341	185055	TT	CC	1946940321
SNP_P4_124537_185067	NW_004515844.1	Scaffold341	185067	CC	TT	1946940323
SNP_P4_124538_185354	NW_004515844.1	Scaffold341	185354	CC	TT	1946940325
SNP_P4_124539_185400	NW_004515844.1	Scaffold341	185400	CC	TT	1946940327
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SNP_P4_124542_681	NW_004515845.1	Scaffold342	681	TT	CC	1946940333
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SNP_P4_124544_757	NW_004515845.1	Scaffold342	757	TT	AA	1946940337
SNP_P4_124545_881	NW_004515845.1	Scaffold342	881	AA	GG	1946940339
SNP_P4_124546_979	NW_004515845.1	Scaffold342	979	GG	AA	1946940341
SNP_P4_124547_15559	NW_004515845.1	Scaffold342	15559	TT	GG	1946940343
SNP_P4_124548_19257	NW_004515845.1	Scaffold342	19257	CC	GG	1946940345
SNP_P4_124549_19525	NW_004515845.1	Scaffold342	19525	TT	CC	1946940347
SNP_P4_124550_19565	NW_004515845.1	Scaffold342	19565	TT	AA	1946940349
SNP_P4_124551_19566	NW_004515845.1	Scaffold342	19566	CC	AA	1946940351
SNP_P4_124552_19567	NW_004515845.1	Scaffold342	19567	TT	CC	1946940353
SNP_P4_124553_19633	NW_004515845.1	Scaffold342	19633	TT	CC	1946940355
SNP_P4_124554_23996	NW_004515845.1	Scaffold342	23996	TT	CC	1946940357
SNP_P4_124555_24536	NW_004515845.1	Scaffold342	24536	CC	AA	1946940359
SNP_P4_124556_35810	NW_004515845.1	Scaffold342	35810	CC	GG	1946940361
SNP_P4_124557_37781	NW_004515845.1	Scaffold342	37781	AA	GG	1946940363
SNP_P4_124558_46110	NW_004515845.1	Scaffold342	46110	CC	TT	1946940365
SNP_P4_124559_46112	NW_004515845.1	Scaffold342	46112	CC	GG	1946940367
SNP_P4_124560_61391	NW_004515845.1	Scaffold342	61391	TT	CC	1946940369

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_124562_61569	NW_004515845.1	Scaffold342	61569	CC	TT	1946940373
SNP_P4_124563_61574	NW_004515845.1	Scaffold342	61574	TT	CC	1946940375
SNP_P4_124564_78338	NW_004515845.1	Scaffold342	78338	AA	GG	1946940377
SNP_P4_124565_78419	NW_004515845.1	Scaffold342	78419	AA	CC	1946940379
SNP_P4_124566_78715	NW_004515845.1	Scaffold342	78715	AA	GG	1946940381
SNP_P4_124567_78719	NW_004515845.1	Scaffold342	78719	AA	GG	1946940383
SNP_P4_124568_78731	NW_004515845.1	Scaffold342	78731	TT	CC	1946940385
SNP_P4_124569_78791	NW_004515845.1	Scaffold342	78791	TT	CC	1946940387
SNP_P4_124570_78810	NW_004515845.1	Scaffold342	78810	AA	GG	1946940389
SNP_P4_124571_80405	NW_004515845.1	Scaffold342	80405	GG	AA	1946940391
SNP_P4_124572_111841	NW_004515845.1	Scaffold342	111841	AA	GG	1946940393
SNP_P4_124573_121779	NW_004515845.1	Scaffold342	121779	AA	TT	1946940395
SNP_P4_124574_121808	NW_004515845.1	Scaffold342	121808	TT	CC	1946940397
SNP_P4_124575_121841	NW_004515845.1	Scaffold342	121841	AA	GG	1946940399
SNP_P4_124576_121844	NW_004515845.1	Scaffold342	121844	GG	TT	1946940401
SNP_P4_124577_121853	NW_004515845.1	Scaffold342	121853	AA	GG	1946940403
SNP_P4_124578_121868	NW_004515845.1	Scaffold342	121868	AA	CC	1946940405
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SNP_P4_124591_125751	NW_004515845.1	Scaffold342	125751	AA	GG	1946940432
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SNP_P4_124596_125871	NW_004515845.1	Scaffold342	125871	AA	GG	1946940442
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SNP_P4_124599_125946	NW_004515845.1	Scaffold342	125946	TT	CC	1946940448
SNP_P4_124600_126120	NW_004515845.1	Scaffold342	126120	AA	GG	1946940450
SNP_P4_124601_132992	NW_004515845.1	Scaffold342	132992	GG	TT	1946940452
SNP_P4_124602_133054	NW_004515845.1	Scaffold342	133054	AA	GG	1946940454

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_124607_168452	NW_004515845.1	Scaffold342	168452	CC	AA	1946940462
SNP_P4_124608_172281	NW_004515845.1	Scaffold342	172281	AA	GG	1946940464
SNP_P4_124609_183570	NW_004515845.1	Scaffold342	183570	TT	GG	1946940466
SNP_P4_124610_183593	NW_004515845.1	Scaffold342	183593	GG	CC	1946940468
SNP_P4_124611_183758	NW_004515845.1	Scaffold342	183758	AA	TT	1946940470
SNP_P4_124612_201213	NW_004515845.1	Scaffold342	201213	GG	CC	1946940472
SNP_P4_124613_201214	NW_004515845.1	Scaffold342	201214	TT	CC	1946940474
SNP_P4_124614_203973	NW_004515845.1	Scaffold342	203973	AA	GG	1946940476
SNP_P4_124615_203981	NW_004515845.1	Scaffold342	203981	AA	GG	1946940478
SNP_P4_124616_207468	NW_004515845.1	Scaffold342	207468	GG	AA	1946940480
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SNP_P4_124618_243085	NW_004515845.1	Scaffold342	243085	GG	AA	1946940484
SNP_P4_124620_308341	NW_004515845.1	Scaffold342	308341	CC	TT	1946940486
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SNP_P4_124629_340405	NW_004515845.1	Scaffold342	340405	CC	TT	1946940503
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SNP_P4_124635_344839	NW_004515845.1	Scaffold342	344839	GG	TT	1946940513
SNP_P4_124636_345028	NW_004515845.1	Scaffold342	345028	CC	GG	1946940515
SNP_P4_124637_356183	NW_004515845.1	Scaffold342	356183	TT	CC	1946940517
SNP_P4_124638_358888	NW_004515845.1	Scaffold342	358888	GG	AA	1946940519
SNP_P4_124639_359109	NW_004515845.1	Scaffold342	359109	TT	CC	1946940521
SNP_P4_124640_359122	NW_004515845.1	Scaffold342	359122	AA	CC	1946940523
SNP_P4_124641_365806	NW_004515845.1	Scaffold342	365806	AA	GG	1946940525
SNP_P4_124643_372349	NW_004515845.1	Scaffold342	372349	AA	CC	1946940527
SNP_P4_124644_372483	NW_004515845.1	Scaffold342	372483	CC	TT	1946940530
SNP_P4_124645_372511	NW_004515845.1	Scaffold342	372511	CC	AA	1946940532
SNP_P4_124646_375192	NW_004515845.1	Scaffold342	375192	CC	AA	1946940534
SNP_P4_124647_14465	NW_004515847.1	Scaffold346_1	14465	GG	TT	1946940536
SNP_P4_124648_30493	NW_004515847.1	Scaffold346_1	30493	AA	TT	1946940538
SNP_P4_124649_41303	NW_004515847.1	Scaffold346_1	41303	TT	CC	1946940539

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_124651_41881	NW_004515847.1	Scaffold346_1	41881	CC	TT	1946940541
SNP_P4_124652_41904	NW_004515847.1	Scaffold346_1	41904	GG	AA	1946940542
SNP_P4_124653_41984	NW_004515847.1	Scaffold346_1	41984	AA	CC	1946940543
SNP_P4_124654_42068	NW_004515847.1	Scaffold346_1	42068	GG	CC	1946940544
SNP_P4_124655_42109	NW_004515847.1	Scaffold346_1	42109	AA	GG	1946940545
SNP_P4_124656_42134	NW_004515847.1	Scaffold346_1	42134	GG	AA	1946940546
SNP_P4_124657_42169	NW_004515847.1	Scaffold346_1	42169	TT	CC	1946940547
SNP_P4_124658_42170	NW_004515847.1	Scaffold346_1	42170	GG	AA	1946940548
SNP_P4_124659_42281	NW_004515847.1	Scaffold346_1	42281	AA	GG	1946940549
SNP_P4_124660_42439	NW_004515847.1	Scaffold346_1	42439	GG	TT	1946940550
SNP_P4_124661_42521	NW_004515847.1	Scaffold346_1	42521	AA	GG	1946940551
SNP_P4_124662_42554	NW_004515847.1	Scaffold346_1	42554	CC	TT	1946940552
SNP_P4_124663_42795	NW_004515847.1	Scaffold346_1	42795	CC	TT	1946940553
SNP_P4_124664_42864	NW_004515847.1	Scaffold346_1	42864	CC	TT	1946940554
SNP_P4_124665_67318	NW_004515847.1	Scaffold346_1	67318	CC	GG	1946940555
SNP_P4_124666_67340	NW_004515847.1	Scaffold346_1	67340	AA	GG	1946940556
SNP_P4_124667_67349	NW_004515847.1	Scaffold346_1	67349	TT	CC	1946940557
SNP_P4_124668_67356	NW_004515847.1	Scaffold346_1	67356	GG	AA	1946940558
SNP_P4_124669_72997	NW_004515847.1	Scaffold346_1	72997	AA	TT	1946940559
SNP_P4_124671_107939	NW_004515847.1	Scaffold346_1	107939	AA	TT	1946940560
SNP_P4_124673_130009	NW_004515847.1	Scaffold346_1	130009	TT	CC	1946940561
SNP_P4_124674_138562	NW_004515847.1	Scaffold346_1	138562	CC	TT	1946940562
SNP_P4_124675_160635	NW_004515847.1	Scaffold346_1	160635	TT	CC	1946940563
SNP_P4_124676_198960	NW_004515847.1	Scaffold346_1	198960	TT	CC	1946940564
SNP_P4_124677_199112	NW_004515847.1	Scaffold346_1	199112	TT	CC	1946940565
SNP_P4_124678_199168	NW_004515847.1	Scaffold346_1	199168	GG	TT	1946940567
SNP_P4_124679_199245	NW_004515847.1	Scaffold346_1	199245	CC	TT	1946940569
SNP_P4_124680_199293	NW_004515847.1	Scaffold346_1	199293	GG	AA	1946940571
SNP_P4_124681_199317	NW_004515847.1	Scaffold346_1	199317	TT	CC	1946940573
SNP_P4_124682_199326	NW_004515847.1	Scaffold346_1	199326	AA	GG	1946940575
SNP_P4_124683_199449	NW_004515847.1	Scaffold346_1	199449	AA	GG	1946940577
SNP_P4_124684_199583	NW_004515847.1	Scaffold346_1	199583	CC	TT	1946940579
SNP_P4_124685_199716	NW_004515847.1	Scaffold346_1	199716	AA	GG	1946940581
SNP_P4_124686_199752	NW_004515847.1	Scaffold346_1	199752	AA	CC	1946940583
SNP_P4_124687_199765	NW_004515847.1	Scaffold346_1	199765	TT	GG	1946940585
SNP_P4_124688_282071	NW_004515847.1	Scaffold346_1	282071	AA	CC	1946940587
SNP_P4_124689_291295	NW_004515847.1	Scaffold346_1	291295	GG	TT	1946940589
SNP_P4_124690_291515	NW_004515847.1	Scaffold346_1	291515	TT	GG	1946940591
SNP_P4_124691_297100	NW_004515847.1	Scaffold346_1	297100	GG	AA	1946940593
SNP_P4_124692_297133	NW_004515847.1	Scaffold346_1	297133	TT	CC	1946940595
SNP_P4_124693_297144	NW_004515847.1	Scaffold346_1	297144	TT	CC	1946940597

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_124696_314043	NW_004515847.1	Scaffold346_1	314043	TT	AA	1946940601
SNP_P4_124697_331521	NW_004515847.1	Scaffold346_1	331521	AA	TT	1946940603
SNP_P4_124698_331543	NW_004515847.1	Scaffold346_1	331543	AA	GG	1946940605
SNP_P4_124699_331547	NW_004515847.1	Scaffold346_1	331547	TT	GG	1946940607
SNP_P4_124700_1278	NW_004515849.1	Scaffold349	1278	AA	CC	1946940609
SNP_P4_124701_1412	NW_004515849.1	Scaffold349	1412	AA	CC	1946940611
SNP_P4_124702_1477	NW_004515849.1	Scaffold349	1477	CC	TT	1946940613
SNP_P4_124703_17509	NW_004515849.1	Scaffold349	17509	AA	GG	1946940615
SNP_P4_124704_21680	NW_004515849.1	Scaffold349	21680	AA	TT	1946940617
SNP_P4_124705_33163	NW_004515849.1	Scaffold349	33163	AA	TT	1946940619
SNP_P4_124706_36372	NW_004515849.1	Scaffold349	36372	AA	GG	1946940621
SNP_P4_124707_67733	NW_004515849.1	Scaffold349	67733	TT	AA	1946940623
SNP_P4_124708_67752	NW_004515849.1	Scaffold349	67752	AA	GG	1946940625
SNP_P4_124709_67756	NW_004515849.1	Scaffold349	67756	AA	GG	1946940627
SNP_P4_124710_67767	NW_004515849.1	Scaffold349	67767	TT	CC	1946940629
SNP_P4_124711_72262	NW_004515849.1	Scaffold349	72262	AA	GG	1946940631
SNP_P4_124712_79164	NW_004515849.1	Scaffold349	79164	TT	AA	1946940633
SNP_P4_124713_91869	NW_004515849.1	Scaffold349	91869	GG	CC	1946940635
SNP_P4_124714_92313	NW_004515849.1	Scaffold349	92313	AA	GG	1946940637
SNP_P4_124715_116525	NW_004515849.1	Scaffold349	116525	CC	AA	1946940639
SNP_P4_124716_159465	NW_004515849.1	Scaffold349	159465	AA	CC	1946940641
SNP_P4_124717_159508	NW_004515849.1	Scaffold349	159508	GG	TT	1946940643
SNP_P4_124718_159529	NW_004515849.1	Scaffold349	159529	AA	GG	1946940645
SNP_P4_124719_159796	NW_004515849.1	Scaffold349	159796	TT	GG	1946940647
SNP_P4_124720_159882	NW_004515849.1	Scaffold349	159882	TT	CC	1946940650
SNP_P4_124721_159886	NW_004515849.1	Scaffold349	159886	AA	GG	1946940652
SNP_P4_124722_159918	NW_004515849.1	Scaffold349	159918	CC	AA	1946940654
SNP_P4_124723_172964	NW_004515849.1	Scaffold349	172964	TT	AA	1946940656
SNP_P4_124724_177690	NW_004515849.1	Scaffold349	177690	AA	TT	1946940658
SNP_P4_124725_177697	NW_004515849.1	Scaffold349	177697	GG	AA	1946940660
SNP_P4_124726_177715	NW_004515849.1	Scaffold349	177715	TT	CC	1946940662
SNP_P4_124727_177737	NW_004515849.1	Scaffold349	177737	CC	TT	1946940664
SNP_P4_124729_218104	NW_004515849.1	Scaffold349	218104	TT	GG	1946940666
SNP_P4_124730_218137	NW_004515849.1	Scaffold349	218137	CC	TT	1946940668
SNP_P4_124732_238289	NW_004515849.1	Scaffold349	238289	AA	GG	1946940670
SNP_P4_124733_238378	NW_004515849.1	Scaffold349	238378	TT	AA	1946940672
SNP_P4_124734_238410	NW_004515849.1	Scaffold349	238410	CC	TT	1946940675
SNP_P4_124735_238431	NW_004515849.1	Scaffold349	238431	AA	GG	1946940677
SNP_P4_124736_238434	NW_004515849.1	Scaffold349	238434	TT	CC	1946940679
SNP_P4_124737_238453	NW_004515849.1	Scaffold349	238453	CC	TT	1946940681
SNP_P4_124738_238887	NW_004515849.1	Scaffold349	238887	TT	CC	1946940683

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_124740_251050	NW_004515849.1	Scaffold349	251050	AA	GG	1946940687
SNP_P4_124741_261889	NW_004515849.1	Scaffold349	261889	AA	GG	1946940689
SNP_P4_124743_304634	NW_004515849.1	Scaffold349	304634	AA	CC	1946940691
SNP_P4_124744_304924	NW_004515849.1	Scaffold349	304924	AA	GG	1946940693
SNP_P4_124745_309207	NW_004515849.1	Scaffold349	309207	GG	TT	1946940695
SNP_P4_124746_314577	NW_004515849.1	Scaffold349	314577	CC	TT	1946940697
SNP_P4_124747_335237	NW_004515849.1	Scaffold349	335237	GG	AA	1946940699
SNP_P4_124749_335716	NW_004515849.1	Scaffold349	335716	GG	AA	1946940701
SNP_P4_124750_336280	NW_004515849.1	Scaffold349	336280	GG	TT	1946940703
SNP_P4_124751_346948	NW_004515849.1	Scaffold349	346948	AA	GG	1946940705
SNP_P4_124752_10306	NW_004515850.1	Scaffold350	10306	GG	CC	1946940707
SNP_P4_124753_23104	NW_004515850.1	Scaffold350	23104	CC	TT	1946940709
SNP_P4_124754_37038	NW_004515850.1	Scaffold350	37038	GG	CC	1946940711
SNP_P4_124755_41954	NW_004515850.1	Scaffold350	41954	TT	CC	1946940714
SNP_P4_124756_41991	NW_004515850.1	Scaffold350	41991	TT	CC	1946940716
SNP_P4_124757_42013	NW_004515850.1	Scaffold350	42013	GG	AA	1946940718
SNP_P4_124758_60664	NW_004515850.1	Scaffold350	60664	GG	TT	1946940720
SNP_P4_124759_67062	NW_004515850.1	Scaffold350	67062	AA	CC	1946940722
SNP_P4_124760_67076	NW_004515850.1	Scaffold350	67076	GG	TT	1946940724
SNP_P4_124762_68491	NW_004515850.1	Scaffold350	68491	TT	CC	1946940726
SNP_P4_124763_69510	NW_004515850.1	Scaffold350	69510	CC	TT	1946940728
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SNP_P4_124765_69549	NW_004515850.1	Scaffold350	69549	CC	TT	1946940732
SNP_P4_124766_69552	NW_004515850.1	Scaffold350	69552	GG	AA	1946940734
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SNP_P4_124768_69980	NW_004515850.1	Scaffold350	69980	TT	CC	1946940738
SNP_P4_124769_70052	NW_004515850.1	Scaffold350	70052	CC	TT	1946940740
SNP_P4_124770_86904	NW_004515850.1	Scaffold350	86904	AA	GG	1946940742
SNP_P4_124771_92519	NW_004515850.1	Scaffold350	92519	CC	AA	1946940744
SNP_P4_124772_95347	NW_004515850.1	Scaffold350	95347	CC	TT	1946940746
SNP_P4_124773_95439	NW_004515850.1	Scaffold350	95439	TT	AA	1946940749
SNP_P4_124774_103771	NW_004515850.1	Scaffold350	103771	GG	TT	1946940751
SNP_P4_124775_118735	NW_004515850.1	Scaffold350	118735	GG	TT	1946940753
SNP_P4_124776_146817	NW_004515850.1	Scaffold350	146817	GG	AA	1946940755
SNP_P4_124777_150564	NW_004515850.1	Scaffold350	150564	AA	GG	1946940757
SNP_P4_124778_164633	NW_004515850.1	Scaffold350	164633	TT	AA	1946940759
SNP_P4_124779_165101	NW_004515850.1	Scaffold350	165101	GG	AA	1946940761
SNP_P4_124780_165206	NW_004515850.1	Scaffold350	165206	CC	TT	1946940763
SNP_P4_124781_165244	NW_004515850.1	Scaffold350	165244	GG	CC	1946940765
SNP_P4_124783_165798	NW_004515850.1	Scaffold350	165798	TT	CC	1946940767
SNP_P4_124784_166048	NW_004515850.1	Scaffold350	166048	TT	AA	1946940769

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_124787_10995	NW_004515851.1	Scaffold351	10995	CC	TT	1946940776
SNP_P4_124788_15491	NW_004515851.1	Scaffold351	15491	GG	AA	1946940778
SNP_P4_124789_15509	NW_004515851.1	Scaffold351	15509	GG	AA	1946940780
SNP_P4_124790_23970	NW_004515851.1	Scaffold351	23970	CC	TT	1946940782
SNP_P4_124791_24220	NW_004515851.1	Scaffold351	24220	CC	GG	1946940784
SNP_P4_124792_24231	NW_004515851.1	Scaffold351	24231	GG	AA	1946940786
SNP_P4_124793_24251	NW_004515851.1	Scaffold351	24251	GG	TT	1946940788
SNP_P4_124794_24268	NW_004515851.1	Scaffold351	24268	GG	AA	1946940791
SNP_P4_124795_24285	NW_004515851.1	Scaffold351	24285	CC	GG	1946940793
SNP_P4_124796_24385	NW_004515851.1	Scaffold351	24385	AA	CC	1946940795
SNP_P4_124797_27457	NW_004515851.1	Scaffold351	27457	AA	GG	1946940797
SNP_P4_124798_46387	NW_004515851.1	Scaffold351	46387	CC	GG	1946940799
SNP_P4_124800_61013	NW_004515851.1	Scaffold351	61013	CC	TT	1946940801
SNP_P4_124801_66533	NW_004515851.1	Scaffold351	66533	GG	AA	1946940803
SNP_P4_124803_68036	NW_004515851.1	Scaffold351	68036	GG	AA	1946940805
SNP_P4_124804_6825	NW_004515852.1	Scaffold352	6825	TT	CC	1946940807
SNP_P4_124805_6890	NW_004515852.1	Scaffold352	6890	AA	TT	1946940809
SNP_P4_124806_8192	NW_004515852.1	Scaffold352	8192	GG	TT	1946940811
SNP_P4_124807_8500	NW_004515852.1	Scaffold352	8500	TT	GG	1946940813
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SNP_P4_124813_23106	NW_004515852.1	Scaffold352	23106	TT	CC	1946940826
SNP_P4_124814_23152	NW_004515852.1	Scaffold352	23152	CC	TT	1946940828
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SNP_P4_124816_23291	NW_004515852.1	Scaffold352	23291	CC	TT	1946940832
SNP_P4_124817_23304	NW_004515852.1	Scaffold352	23304	CC	TT	1946940834
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SNP_P4_124819_28315	NW_004515852.1	Scaffold352	28315	CC	TT	1946940838
SNP_P4_124820_28350	NW_004515852.1	Scaffold352	28350	AA	GG	1946940840
SNP_P4_124821_33799	NW_004515852.1	Scaffold352	33799	GG	AA	1946940842
SNP_P4_124822_48651	NW_004515852.1	Scaffold352	48651	GG	AA	1946940844
SNP_P4_124823_48673	NW_004515852.1	Scaffold352	48673	CC	GG	1946940847
SNP_P4_124824_48759	NW_004515852.1	Scaffold352	48759	GG	AA	1946940849
SNP_P4_124825_48783	NW_004515852.1	Scaffold352	48783	TT	AA	1946940851
SNP_P4_124826_48787	NW_004515852.1	Scaffold352	48787	GG	AA	1946940853
SNP_P4_124827_53740	NW_004515852.1	Scaffold352	53740	TT	CC	1946940855
SNP_P4_124828_54515	NW_004515852.1	Scaffold352	54515	TT	CC	1946940857

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_124831_58131	NW_004515852.1	Scaffold352	58131	GG	AA	1946940863
SNP_P4_124832_58132	NW_004515852.1	Scaffold352	58132	CC	AA	1946940865
SNP_P4_124833_63811	NW_004515852.1	Scaffold352	63811	TT	CC	1946940867
SNP_P4_124834_64135	NW_004515852.1	Scaffold352	64135	TT	GG	1946940869
SNP_P4_124835_75705	NW_004515852.1	Scaffold352	75705	AA	GG	1946940871
SNP_P4_124836_83243	NW_004515852.1	Scaffold352	83243	TT	CC	1946940873
SNP_P4_124837_83314	NW_004515852.1	Scaffold352	83314	GG	AA	1946940875
SNP_P4_124838_86021	NW_004515852.1	Scaffold352	86021	AA	GG	1946940877
SNP_P4_124839_106677	NW_004515852.1	Scaffold352	106677	TT	CC	1946940879
SNP_P4_124840_106684	NW_004515852.1	Scaffold352	106684	GG	TT	1946940881
SNP_P4_124841_106685	NW_004515852.1	Scaffold352	106685	GG	CC	1946940883
SNP_P4_124842_106702	NW_004515852.1	Scaffold352	106702	GG	TT	1946940885
SNP_P4_124843_106721	NW_004515852.1	Scaffold352	106721	TT	GG	1946940887
SNP_P4_124844_106773	NW_004515852.1	Scaffold352	106773	TT	CC	1946940889
SNP_P4_124845_106775	NW_004515852.1	Scaffold352	106775	GG	TT	1946940891
SNP_P4_124846_106820	NW_004515852.1	Scaffold352	106820	AA	GG	1946940893
SNP_P4_124847_106832	NW_004515852.1	Scaffold352	106832	CC	GG	1946940895
SNP_P4_124848_107908	NW_004515852.1	Scaffold352	107908	CC	TT	1946940897
SNP_P4_124849_109087	NW_004515852.1	Scaffold352	109087	AA	TT	1946940899
SNP_P4_124850_121103	NW_004515852.1	Scaffold352	121103	GG	CC	1946940901
SNP_P4_124851_133447	NW_004515852.1	Scaffold352	133447	TT	AA	1946940903
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SNP_P4_124854_133606	NW_004515852.1	Scaffold352	133606	GG	AA	1946940907
SNP_P4_124855_133918	NW_004515852.1	Scaffold352	133918	AA	TT	1946940909
SNP_P4_124856_148978	NW_004515852.1	Scaffold352	148978	CC	AA	1946940910
SNP_P4_124857_154136	NW_004515852.1	Scaffold352	154136	CC	TT	1946940912
SNP_P4_124858_154599	NW_004515852.1	Scaffold352	154599	CC	TT	1946940914
SNP_P4_124859_154633	NW_004515852.1	Scaffold352	154633	AA	GG	1946940917
SNP_P4_124860_154652	NW_004515852.1	Scaffold352	154652	TT	CC	1946940919
SNP_P4_124861_154654	NW_004515852.1	Scaffold352	154654	CC	AA	1946940921
SNP_P4_124862_154676	NW_004515852.1	Scaffold352	154676	TT	GG	1946940923
SNP_P4_124863_172571	NW_004515852.1	Scaffold352	172571	AA	CC	1946940925
SNP_P4_124864_172572	NW_004515852.1	Scaffold352	172572	TT	CC	1946940927
SNP_P4_124865_172637	NW_004515852.1	Scaffold352	172637	CC	TT	1946940929
SNP_P4_124866_172666	NW_004515852.1	Scaffold352	172666	TT	GG	1946940931
SNP_P4_124867_172727	NW_004515852.1	Scaffold352	172727	GG	AA	1946940933
SNP_P4_124868_174548	NW_004515852.1	Scaffold352	174548	CC	GG	1946940935
SNP_P4_124869_177507	NW_004515852.1	Scaffold352	177507	GG	AA	1946940937
SNP_P4_124870_177578	NW_004515852.1	Scaffold352	177578	CC	TT	1946940939
SNP_P4_124871_177643	NW_004515852.1	Scaffold352	177643	TT	CC	1946940941

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_124872_177875	NW_004515852.1	Scaffold352	177875	AA	GG	1946940943
SNP_P4_124873_177908	NW_004515852.1	Scaffold352	177908	CC	TT	1946940945
SNP_P4_124874_177951	NW_004515852.1	Scaffold352	177951	CC	TT	1946940947
SNP_P4_124877_178129	NW_004515852.1	Scaffold352	178129	AA	GG	1946940949
SNP_P4_124878_178191	NW_004515852.1	Scaffold352	178191	CC	GG	1946940951
SNP_P4_124879_178247	NW_004515852.1	Scaffold352	178247	GG	CC	1946940953
SNP_P4_124880_178351	NW_004515852.1	Scaffold352	178351	TT	GG	1946940955
SNP_P4_124881_178473	NW_004515852.1	Scaffold352	178473	TT	GG	1946940957
SNP_P4_124882_178478	NW_004515852.1	Scaffold352	178478	CC	GG	1946940959
SNP_P4_124884_178720	NW_004515852.1	Scaffold352	178720	GG	CC	1946940961
SNP_P4_124885_178739	NW_004515852.1	Scaffold352	178739	GG	CC	1946940963
SNP_P4_124886_178807	NW_004515852.1	Scaffold352	178807	TT	CC	1946940965
SNP_P4_124887_178874	NW_004515852.1	Scaffold352	178874	CC	TT	1946940967
SNP_P4_124888_179013	NW_004515852.1	Scaffold352	179013	TT	CC	1946940969
SNP_P4_124889_179142	NW_004515852.1	Scaffold352	179142	GG	AA	1946940971
SNP_P4_124890_179147	NW_004515852.1	Scaffold352	179147	TT	CC	1946940973
SNP_P4_124891_179374	NW_004515852.1	Scaffold352	179374	GG	TT	1946940975
SNP_P4_124892_179385	NW_004515852.1	Scaffold352	179385	TT	CC	1946940977
SNP_P4_124893_179389	NW_004515852.1	Scaffold352	179389	TT	CC	1946940979
SNP_P4_124894_179436	NW_004515852.1	Scaffold352	179436	CC	TT	1946940981
SNP_P4_124897_179738	NW_004515852.1	Scaffold352	179738	TT	CC	1946940983
SNP_P4_124898_179741	NW_004515852.1	Scaffold352	179741	CC	TT	1946940985
SNP_P4_124899_180829	NW_004515852.1	Scaffold352	180829	AA	GG	1946940987
SNP_P4_124900_188321	NW_004515852.1	Scaffold352	188321	TT	AA	1946940989
SNP_P4_124901_188959	NW_004515852.1	Scaffold352	188959	GG	TT	1946940991
SNP_P4_124902_191517	NW_004515852.1	Scaffold352	191517	TT	CC	1946940993
SNP_P4_124903_191539	NW_004515852.1	Scaffold352	191539	GG	AA	1946940995
SNP_P4_124904_191678	NW_004515852.1	Scaffold352	191678	GG	AA	1946940997
SNP_P4_124905_191709	NW_004515852.1	Scaffold352	191709	AA	GG	1946940999
SNP_P4_124906_191887	NW_004515852.1	Scaffold352	191887	GG	AA	1946941001
SNP_P4_124907_192059	NW_004515852.1	Scaffold352	192059	GG	AA	1946941003
SNP_P4_124908_193088	NW_004515852.1	Scaffold352	193088	TT	CC	1946941005
SNP_P4_124909_194116	NW_004515852.1	Scaffold352	194116	CC	TT	1946941007
SNP_P4_124910_194338	NW_004515852.1	Scaffold352	194338	AA	TT	1946941009
SNP_P4_124911_194412	NW_004515852.1	Scaffold352	194412	TT	AA	1946941011
SNP_P4_124912_194555	NW_004515852.1	Scaffold352	194555	CC	TT	1946941013
SNP_P4_124913_6827	NW_004515853.1	Scaffold353	6827	TT	CC	1946941015
SNP_P4_124914_13077	NW_004515853.1	Scaffold353	13077	GG	AA	1946941017
SNP_P4_124915_13079	NW_004515853.1	Scaffold353	13079	TT	AA	1946941019
SNP_P4_124916_14507	NW_004515853.1	Scaffold353	14507	AA	GG	1946941022
SNP_P4_124917_19096	NW_004515853.1	Scaffold353	19096	GG	TT	1946941024
SNP_P4_124918_27834	NW_004515853.1	Scaffold353	27834	TT	GG	1946941026

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_124919_28098	NW_004515853.1	Scaffold353	28098	AA	GG	1946941028
SNP_P4_124920_28215	NW_004515853.1	Scaffold353	28215	GG	CC	1946941030
SNP_P4_124921_31072	NW_004515853.1	Scaffold353	31072	AA	GG	1946941032
SNP_P4_124922_31097	NW_004515853.1	Scaffold353	31097	CC	GG	1946941034
SNP_P4_124923_31113	NW_004515853.1	Scaffold353	31113	AA	GG	1946941036
SNP_P4_124924_31152	NW_004515853.1	Scaffold353	31152	AA	GG	1946941038
SNP_P4_124925_57577	NW_004515853.1	Scaffold353	57577	CC	GG	1946941040
SNP_P4_124926_59153	NW_004515853.1	Scaffold353	59153	TT	CC	1946941042
SNP_P4_124927_59182	NW_004515853.1	Scaffold353	59182	GG	AA	1946941044
SNP_P4_124928_59269	NW_004515853.1	Scaffold353	59269	AA	CC	1946941046
SNP_P4_124929_59972	NW_004515853.1	Scaffold353	59972	AA	GG	1946941048
SNP_P4_124931_904	NW_004515855.1	Scaffold355	904	CC	GG	1946941050
SNP_P4_124933_999	NW_004515855.1	Scaffold355	999	AA	CC	1946941052
SNP_P4_124934_1064	NW_004515855.1	Scaffold355	1064	TT	CC	1946941054
SNP_P4_124935_1078	NW_004515855.1	Scaffold355	1078	AA	TT	1946941056
SNP_P4_124936_1115	NW_004515855.1	Scaffold355	1115	AA	CC	1946941058
SNP_P4_124937_1144	NW_004515855.1	Scaffold355	1144	AA	GG	1946941060
SNP_P4_124938_1202	NW_004515855.1	Scaffold355	1202	TT	GG	1946941062
SNP_P4_124940_1446	NW_004515855.1	Scaffold355	1446	GG	AA	1946941064
SNP_P4_124941_5942	NW_004515855.1	Scaffold355	5942	TT	CC	1946941066
SNP_P4_124942_8907	NW_004515855.1	Scaffold355	8907	GG	AA	1946941068
SNP_P4_124943_13551	NW_004515855.1	Scaffold355	13551	TT	CC	1946941070
SNP_P4_124944_13629	NW_004515855.1	Scaffold355	13629	TT	AA	1946941072
SNP_P4_124945_15759	NW_004515855.1	Scaffold355	15759	CC	AA	1946941074
SNP_P4_124946_15862	NW_004515855.1	Scaffold355	15862	GG	CC	1946941076
SNP_P4_124947_16039	NW_004515855.1	Scaffold355	16039	CC	TT	1946941078
SNP_P4_124948_16048	NW_004515855.1	Scaffold355	16048	AA	TT	1946941080
SNP_P4_124949_16082	NW_004515855.1	Scaffold355	16082	TT	CC	1946941082
SNP_P4_124950_16100	NW_004515855.1	Scaffold355	16100	CC	TT	1946941084
SNP_P4_124951_16483	NW_004515855.1	Scaffold355	16483	GG	CC	1946941086
SNP_P4_124952_26828	NW_004515855.1	Scaffold355	26828	AA	GG	1946941088
SNP_P4_124953_44830	NW_004515855.1	Scaffold355	44830	GG	AA	1946941090
SNP_P4_124954_51901	NW_004515855.1	Scaffold355	51901	AA	GG	1946941092
SNP_P4_124955_52285	NW_004515855.1	Scaffold355	52285	CC	TT	1946941094
SNP_P4_124956_66635	NW_004515855.1	Scaffold355	66635	GG	TT	1946941096
SNP_P4_124957_75962	NW_004515855.1	Scaffold355	75962	CC	TT	1946941098
SNP_P4_124958_77761	NW_004515855.1	Scaffold355	77761	CC	AA	1946941100
SNP_P4_124959_79112	NW_004515855.1	Scaffold355	79112	TT	CC	1946941102
SNP_P4_124960_79120	NW_004515855.1	Scaffold355	79120	TT	AA	1946941104
SNP_P4_124961_86434	NW_004515855.1	Scaffold355	86434	AA	GG	1946941106
SNP_P4_124962_86555	NW_004515855.1	Scaffold355	86555	TT	CC	1946941108
SNP_P4_124963_86567	NW_004515855.1	Scaffold355	86567	AA	GG	1946941110

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_124964_86570	NW_004515855.1	Scaffold355	86570	CC	GG	1946941112
SNP_P4_124965_86659	NW_004515855.1	Scaffold355	86659	AA	CC	1946941114
SNP_P4_124966_86698	NW_004515855.1	Scaffold355	86698	TT	CC	1946941116
SNP_P4_124967_86724	NW_004515855.1	Scaffold355	86724	AA	GG	1946941118
SNP_P4_124968_87056	NW_004515855.1	Scaffold355	87056	TT	AA	1946941120
SNP_P4_124969_88179	NW_004515855.1	Scaffold355	88179	GG	TT	1946941122
SNP_P4_124970_88592	NW_004515855.1	Scaffold355	88592	CC	AA	1946941124
SNP_P4_124971_88609	NW_004515855.1	Scaffold355	88609	AA	GG	1946941127
SNP_P4_124972_88619	NW_004515855.1	Scaffold355	88619	TT	CC	1946941129
SNP_P4_124973_88620	NW_004515855.1	Scaffold355	88620	CC	TT	1946941131
SNP_P4_124974_88629	NW_004515855.1	Scaffold355	88629	TT	CC	1946941133
SNP_P4_124975_88630	NW_004515855.1	Scaffold355	88630	CC	GG	1946941135
SNP_P4_124976_88647	NW_004515855.1	Scaffold355	88647	TT	CC	1946941137
SNP_P4_124977_88694	NW_004515855.1	Scaffold355	88694	AA	GG	1946941139
SNP_P4_124978_88725	NW_004515855.1	Scaffold355	88725	AA	GG	1946941141
SNP_P4_124979_88726	NW_004515855.1	Scaffold355	88726	AA	CC	1946941143
SNP_P4_124980_378	NW_004515856.1	Scaffold357	378	GG	AA	1946941145
SNP_P4_124981_604	NW_004515856.1	Scaffold357	604	CC	GG	1946941147
SNP_P4_124982_1284	NW_004515856.1	Scaffold357	1284	TT	CC	1946941149
SNP_P4_124983_1287	NW_004515856.1	Scaffold357	1287	CC	GG	1946941151
SNP_P4_124984_1315	NW_004515856.1	Scaffold357	1315	CC	AA	1946941153
SNP_P4_124985_1327	NW_004515856.1	Scaffold357	1327	AA	GG	1946941155
SNP_P4_124986_1558	NW_004515856.1	Scaffold357	1558	CC	GG	1946941157
SNP_P4_124987_1635	NW_004515856.1	Scaffold357	1635	CC	TT	1946941159
SNP_P4_124988_1651	NW_004515856.1	Scaffold357	1651	CC	AA	1946941161
SNP_P4_124989_1656	NW_004515856.1	Scaffold357	1656	CC	GG	1946941163
SNP_P4_124990_1661	NW_004515856.1	Scaffold357	1661	CC	AA	1946941165
SNP_P4_124991_1712	NW_004515856.1	Scaffold357	1712	AA	TT	1946941167
SNP_P4_124992_1763	NW_004515856.1	Scaffold357	1763	AA	TT	1946941169
SNP_P4_124993_1854	NW_004515856.1	Scaffold357	1854	GG	AA	1946941171
SNP_P4_124994_1860	NW_004515856.1	Scaffold357	1860	TT	GG	1946941173
SNP_P4_124995_1885	NW_004515856.1	Scaffold357	1885	AA	GG	1946941175
SNP_P4_124996_1963	NW_004515856.1	Scaffold357	1963	TT	AA	1946941177
SNP_P4_124997_3995	NW_004515856.1	Scaffold357	3995	AA	TT	1946941179
SNP_P4_124998_7972	NW_004515856.1	Scaffold357	7972	GG	TT	1946941181
SNP_P4_124999_7999	NW_004515856.1	Scaffold357	7999	TT	CC	1946941183
SNP_P4_125000_8017	NW_004515856.1	Scaffold357	8017	CC	GG	1946941186
SNP_P4_125001_8018	NW_004515856.1	Scaffold357	8018	AA	GG	1946941188
SNP_P4_125002_8019	NW_004515856.1	Scaffold357	8019	AA	TT	1946941190
SNP_P4_125003_4316	NW_004515858.1	Scaffold362	4316	AA	GG	1946941192
SNP_P4_125004_4325	NW_004515858.1	Scaffold362	4325	TT	GG	1946941194
SNP_P4_125005_14159	NW_004515858.1	Scaffold362	14159	TT	CC	1946941196

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_125007_15088	NW_004515858.1	Scaffold362	15088	TT	CC	1946941200
SNP_P4_125009_20174	NW_004515858.1	Scaffold362	20174	CC	TT	1946941202
SNP_P4_125010_43495	NW_004515858.1	Scaffold362	43495	AA	GG	1946941204
SNP_P4_125011_75441	NW_004515858.1	Scaffold362	75441	TT	CC	1946941206
SNP_P4_125012_78628	NW_004515858.1	Scaffold362	78628	CC	TT	1946941208
SNP_P4_125013_78643	NW_004515858.1	Scaffold362	78643	TT	CC	1946941210
SNP_P4_125014_80535	NW_004515858.1	Scaffold362	80535	CC	TT	1946941212
SNP_P4_125015_80662	NW_004515858.1	Scaffold362	80662	TT	CC	1946941214
SNP_P4_125016_80714	NW_004515858.1	Scaffold362	80714	TT	CC	1946941216
SNP_P4_125017_80880	NW_004515858.1	Scaffold362	80880	TT	CC	1946941218
SNP_P4_125018_80883	NW_004515858.1	Scaffold362	80883	GG	AA	1946941220
SNP_P4_125019_80911	NW_004515858.1	Scaffold362	80911	AA	GG	1946941222
SNP_P4_125020_80977	NW_004515858.1	Scaffold362	80977	GG	TT	1946941224
SNP_P4_125021_80978	NW_004515858.1	Scaffold362	80978	GG	CC	1946941226
SNP_P4_125022_81003	NW_004515858.1	Scaffold362	81003	CC	TT	1946941228
SNP_P4_125023_81024	NW_004515858.1	Scaffold362	81024	CC	TT	1946941230
SNP_P4_125024_81057	NW_004515858.1	Scaffold362	81057	CC	AA	1946941232
SNP_P4_125025_81070	NW_004515858.1	Scaffold362	81070	AA	GG	1946941234
SNP_P4_125026_81089	NW_004515858.1	Scaffold362	81089	TT	CC	1946941236
SNP_P4_125027_81104	NW_004515858.1	Scaffold362	81104	AA	CC	1946941238
SNP_P4_125028_81116	NW_004515858.1	Scaffold362	81116	CC	TT	1946941240
SNP_P4_125030_98616	NW_004515858.1	Scaffold362	98616	AA	GG	1946941242
SNP_P4_125031_131232	NW_004515858.1	Scaffold362	131232	GG	AA	1946941244
SNP_P4_125033_137727	NW_004515858.1	Scaffold362	137727	GG	AA	1946941246
SNP_P4_125034_166063	NW_004515858.1	Scaffold362	166063	CC	AA	1946941248
SNP_P4_125035_166240	NW_004515858.1	Scaffold362	166240	AA	CC	1946941250
SNP_P4_125036_166243	NW_004515858.1	Scaffold362	166243	TT	AA	1946941252
SNP_P4_125037_166319	NW_004515858.1	Scaffold362	166319	TT	GG	1946941254
SNP_P4_125038_166399	NW_004515858.1	Scaffold362	166399	GG	TT	1946941256
SNP_P4_125040_166457	NW_004515858.1	Scaffold362	166457	AA	GG	1946941258
SNP_P4_125041_166535	NW_004515858.1	Scaffold362	166535	CC	AA	1946941260
SNP_P4_125042_166584	NW_004515858.1	Scaffold362	166584	TT	AA	1946941262
SNP_P4_125043_166636	NW_004515858.1	Scaffold362	166636	AA	GG	1946941264
SNP_P4_125044_170209	NW_004515858.1	Scaffold362	170209	AA	GG	1946941266
SNP_P4_125045_179845	NW_004515858.1	Scaffold362	179845	TT	CC	1946941268
SNP_P4_125046_180022	NW_004515858.1	Scaffold362	180022	TT	CC	1946941271
SNP_P4_125047_261828	NW_004515858.1	Scaffold362	261828	AA	TT	1946941273
SNP_P4_125048_261829	NW_004515858.1	Scaffold362	261829	AA	GG	1946941275
SNP_P4_125049_263828	NW_004515858.1	Scaffold362	263828	AA	GG	1946941277
SNP_P4_125050_263833	NW_004515858.1	Scaffold362	263833	AA	CC	1946941279
SNP_P4_125051_263891	NW_004515858.1	Scaffold362	263891	CC	AA	1946941281

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_125053_265923	NW_004515858.1	Scaffold362	265923	TT	GG	1946941285
SNP_P4_125054_267511	NW_004515858.1	Scaffold362	267511	AA	CC	1946941287
SNP_P4_125056_268462	NW_004515858.1	Scaffold362	268462	AA	TT	1946941289
SNP_P4_125057_292288	NW_004515858.1	Scaffold362	292288	TT	AA	1946941291
SNP_P4_125058_301765	NW_004515858.1	Scaffold362	301765	GG	TT	1946941293
SNP_P4_125059_318991	NW_004515858.1	Scaffold362	318991	AA	GG	1946941295
SNP_P4_125063_329344	NW_004515858.1	Scaffold362	329344	TT	CC	1946941297
SNP_P4_125064_349187	NW_004515858.1	Scaffold362	349187	TT	CC	1946941299
SNP_P4_125065_349441	NW_004515858.1	Scaffold362	349441	AA	GG	1946941301
SNP_P4_125066_349470	NW_004515858.1	Scaffold362	349470	TT	CC	1946941303
SNP_P4_125067_350452	NW_004515858.1	Scaffold362	350452	TT	AA	1946941305
SNP_P4_125068_365087	NW_004515858.1	Scaffold362	365087	TT	CC	1946941307
SNP_P4_125069_366629	NW_004515858.1	Scaffold362	366629	CC	TT	1946941309
SNP_P4_125070_374736	NW_004515858.1	Scaffold362	374736	TT	AA	1946941311
SNP_P4_125071_374761	NW_004515858.1	Scaffold362	374761	GG	TT	1946941313
SNP_P4_125072_392125	NW_004515858.1	Scaffold362	392125	TT	CC	1946941315
SNP_P4_125073_215	NW_004515859.1	Scaffold363	215	GG	AA	1946941317
SNP_P4_125074_257	NW_004515859.1	Scaffold363	257	TT	CC	1946941319
SNP_P4_125075_271	NW_004515859.1	Scaffold363	271	GG	AA	1946941321
SNP_P4_125076_334	NW_004515859.1	Scaffold363	334	CC	GG	1946941323
SNP_P4_125077_368	NW_004515859.1	Scaffold363	368	GG	AA	1946941325
SNP_P4_125078_535	NW_004515859.1	Scaffold363	535	AA	GG	1946941327
SNP_P4_125079_724	NW_004515859.1	Scaffold363	724	GG	TT	1946941329
SNP_P4_125080_734	NW_004515859.1	Scaffold363	734	CC	TT	1946941331
SNP_P4_125081_25256	NW_004515859.1	Scaffold363	25256	AA	GG	1946941333
SNP_P4_125082_32978	NW_004515859.1	Scaffold363	32978	CC	AA	1946941335
SNP_P4_125083_80995	NW_004515859.1	Scaffold363	80995	CC	GG	1946941337
SNP_P4_125085_83732	NW_004515859.1	Scaffold363	83732	CC	AA	1946941339
SNP_P4_125086_85000	NW_004515859.1	Scaffold363	85000	TT	GG	1946941341
SNP_P4_125087_85727	NW_004515859.1	Scaffold363	85727	CC	GG	1946941343
SNP_P4_125088_85772	NW_004515859.1	Scaffold363	85772	AA	GG	1946941345
SNP_P4_125089_85864	NW_004515859.1	Scaffold363	85864	TT	GG	1946941347
SNP_P4_125090_96420	NW_004515859.1	Scaffold363	96420	TT	CC	1946941349
SNP_P4_125091_96421	NW_004515859.1	Scaffold363	96421	GG	TT	1946941351
SNP_P4_125092_96455	NW_004515859.1	Scaffold363	96455	AA	GG	1946941353
SNP_P4_125093_96461	NW_004515859.1	Scaffold363	96461	TT	AA	1946941356
SNP_P4_125094_96468	NW_004515859.1	Scaffold363	96468	TT	CC	1946941358
SNP_P4_125095_96477	NW_004515859.1	Scaffold363	96477	GG	TT	1946941360
SNP_P4_125096_96501	NW_004515859.1	Scaffold363	96501	AA	TT	1946941362
SNP_P4_125097_96515	NW_004515859.1	Scaffold363	96515	CC	TT	1946941364
SNP_P4_125098_96553	NW_004515859.1	Scaffold363	96553	AA	GG	1946941366

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_125099_96556	NW_004515859.1	Scaffold363	96556	TT	CC	1946941368
SNP_P4_125100_96560	NW_004515859.1	Scaffold363	96560	GG	AA	1946941370
SNP_P4_125101_96561	NW_004515859.1	Scaffold363	96561	CC	TT	1946941372
SNP_P4_125102_96566	NW_004515859.1	Scaffold363	96566	CC	TT	1946941374
SNP_P4_125103_96581	NW_004515859.1	Scaffold363	96581	TT	CC	1946941376
SNP_P4_125104_96583	NW_004515859.1	Scaffold363	96583	CC	TT	1946941378
SNP_P4_125105_96587	NW_004515859.1	Scaffold363	96587	AA	GG	1946941380
SNP_P4_125106_96602	NW_004515859.1	Scaffold363	96602	TT	AA	1946941382
SNP_P4_125109_96730	NW_004515859.1	Scaffold363	96730	GG	AA	1946941384
SNP_P4_125110_96768	NW_004515859.1	Scaffold363	96768	TT	CC	1946941386
SNP_P4_125111_96776	NW_004515859.1	Scaffold363	96776	TT	CC	1946941388
SNP_P4_125112_96900	NW_004515859.1	Scaffold363	96900	TT	GG	1946941390
SNP_P4_125113_96909	NW_004515859.1	Scaffold363	96909	CC	TT	1946941392
SNP_P4_125114_96914	NW_004515859.1	Scaffold363	96914	CC	TT	1946941394
SNP_P4_125115_96919	NW_004515859.1	Scaffold363	96919	TT	CC	1946941396
SNP_P4_125116_97011	NW_004515859.1	Scaffold363	97011	GG	CC	1946941398
SNP_P4_125117_97044	NW_004515859.1	Scaffold363	97044	CC	GG	1946941400
SNP_P4_125118_97059	NW_004515859.1	Scaffold363	97059	CC	TT	1946941402
SNP_P4_125120_33402	NW_004515861.1	Scaffold366	33402	AA	TT	1946941404
SNP_P4_125121_34322	NW_004515861.1	Scaffold366	34322	AA	GG	1946941406
SNP_P4_125122_49515	NW_004515861.1	Scaffold366	49515	CC	TT	1946941408
SNP_P4_125124_61566	NW_004515861.1	Scaffold366	61566	CC	TT	1946941410
SNP_P4_125125_61576	NW_004515861.1	Scaffold366	61576	CC	AA	1946941412
SNP_P4_125126_68216	NW_004515861.1	Scaffold366	68216	CC	TT	1946941414
SNP_P4_125127_68468	NW_004515861.1	Scaffold366	68468	TT	CC	1946941416
SNP_P4_125128_70768	NW_004515861.1	Scaffold366	70768	GG	AA	1946941418
SNP_P4_125130_107525	NW_004515861.1	Scaffold366	107525	CC	TT	1946941420
SNP_P4_125131_107629	NW_004515861.1	Scaffold366	107629	AA	GG	1946941422
SNP_P4_125132_107639	NW_004515861.1	Scaffold366	107639	CC	GG	1946941424
SNP_P4_125133_107712	NW_004515861.1	Scaffold366	107712	TT	CC	1946941426
SNP_P4_125134_107727	NW_004515861.1	Scaffold366	107727	TT	CC	1946941428
SNP_P4_125135_107728	NW_004515861.1	Scaffold366	107728	TT	CC	1946941430
SNP_P4_125136_107729	NW_004515861.1	Scaffold366	107729	GG	TT	1946941432
SNP_P4_125137_107915	NW_004515861.1	Scaffold366	107915	TT	CC	1946941434
SNP_P4_125138_107946	NW_004515861.1	Scaffold366	107946	GG	TT	1946941436
SNP_P4_125139_108021	NW_004515861.1	Scaffold366	108021	CC	TT	1946941438
SNP_P4_125140_108079	NW_004515861.1	Scaffold366	108079	CC	TT	1946941440
SNP_P4_125141_108082	NW_004515861.1	Scaffold366	108082	GG	AA	1946941442
SNP_P4_125142_115926	NW_004515861.1	Scaffold366	115926	TT	CC	1946941444
SNP_P4_125143_115937	NW_004515861.1	Scaffold366	115937	TT	CC	1946941446
SNP_P4_125144_116264	NW_004515861.1	Scaffold366	116264	GG	AA	1946941448
SNP_P4_125145_116322	NW_004515861.1	Scaffold366	116322	CC	GG	1946941450

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_125146_139155	NW_004515861.1	Scaffold366	139155	AA	CC	1946941452
SNP_P4_125147_139164	NW_004515861.1	Scaffold366	139164	GG	AA	1946941454
SNP_P4_125148_139191	NW_004515861.1	Scaffold366	139191	AA	TT	1946941456
SNP_P4_125149_156016	NW_004515861.1	Scaffold366	156016	CC	TT	1946941458
SNP_P4_125150_156023	NW_004515861.1	Scaffold366	156023	AA	TT	1946941460
SNP_P4_125151_156163	NW_004515861.1	Scaffold366	156163	TT	CC	1946941462
SNP_P4_125152_156167	NW_004515861.1	Scaffold366	156167	GG	AA	1946941464
SNP_P4_125153_2644	NW_004515862.1	Scaffold367	2644	TT	CC	1946941466
SNP_P4_125154_5433	NW_004515862.1	Scaffold367	5433	AA	CC	1946941468
SNP_P4_125155_5456	NW_004515862.1	Scaffold367	5456	CC	TT	1946941470
SNP_P4_125156_6311	NW_004515862.1	Scaffold367	6311	AA	CC	1946941472
SNP_P4_125158_6461	NW_004515862.1	Scaffold367	6461	CC	TT	1946941474
SNP_P4_125159_6505	NW_004515862.1	Scaffold367	6505	AA	CC	1946941476
SNP_P4_125160_6556	NW_004515862.1	Scaffold367	6556	AA	GG	1946941478
SNP_P4_125161_12273	NW_004515862.1	Scaffold367	12273	AA	TT	1946941480
SNP_P4_125162_19728	NW_004515862.1	Scaffold367	19728	CC	TT	1946941482
SNP_P4_125163_20090	NW_004515862.1	Scaffold367	20090	TT	CC	1946941484
SNP_P4_125164_20095	NW_004515862.1	Scaffold367	20095	TT	CC	1946941486
SNP_P4_125165_20110	NW_004515862.1	Scaffold367	20110	GG	AA	1946941488
SNP_P4_125166_20119	NW_004515862.1	Scaffold367	20119	TT	CC	1946941490
SNP_P4_125167_20164	NW_004515862.1	Scaffold367	20164	TT	CC	1946941492
SNP_P4_125168_20205	NW_004515862.1	Scaffold367	20205	TT	AA	1946941494
SNP_P4_125169_20215	NW_004515862.1	Scaffold367	20215	CC	AA	1946941496
SNP_P4_125170_24553	NW_004515862.1	Scaffold367	24553	GG	CC	1946941498
SNP_P4_125171_24636	NW_004515862.1	Scaffold367	24636	AA	GG	1946941500
SNP_P4_125172_24851	NW_004515862.1	Scaffold367	24851	TT	GG	1946941502
SNP_P4_125173_25068	NW_004515862.1	Scaffold367	25068	TT	CC	1946941504
SNP_P4_125174_25112	NW_004515862.1	Scaffold367	25112	TT	CC	1946941506
SNP_P4_125175_25126	NW_004515862.1	Scaffold367	25126	TT	AA	1946941508
SNP_P4_125176_25200	NW_004515862.1	Scaffold367	25200	TT	CC	1946941510
SNP_P4_125177_25222	NW_004515862.1	Scaffold367	25222	TT	CC	1946941512
SNP_P4_125178_32642	NW_004515862.1	Scaffold367	32642	TT	AA	1946941514
SNP_P4_125179_32647	NW_004515862.1	Scaffold367	32647	TT	CC	1946941516
SNP_P4_125180_32715	NW_004515862.1	Scaffold367	32715	TT	CC	1946941518
SNP_P4_125181_34550	NW_004515862.1	Scaffold367	34550	CC	TT	1946941520
SNP_P4_125182_34559	NW_004515862.1	Scaffold367	34559	CC	TT	1946941522
SNP_P4_125183_34572	NW_004515862.1	Scaffold367	34572	GG	AA	1946941524
SNP_P4_125184_36468	NW_004515862.1	Scaffold367	36468	AA	GG	1946941526
SNP_P4_125185_45185	NW_004515862.1	Scaffold367	45185	TT	CC	1946941528
SNP_P4_125186_45300	NW_004515862.1	Scaffold367	45300	AA	GG	1946941530
SNP_P4_125187_45307	NW_004515862.1	Scaffold367	45307	CC	AA	1946941532
SNP_P4_125188_45403	NW_004515862.1	Scaffold367	45403	TT	GG	1946941534

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_125189_45413	NW_004515862.1	Scaffold367	45413	AA	GG	1946941536
SNP_P4_125190_45636	NW_004515862.1	Scaffold367	45636	AA	GG	1946941538
SNP_P4_125191_45740	NW_004515862.1	Scaffold367	45740	CC	GG	1946941540
SNP_P4_125192_51439	NW_004515862.1	Scaffold367	51439	TT	GG	1946941542
SNP_P4_125193_51452	NW_004515862.1	Scaffold367	51452	AA	CC	1946941544
SNP_P4_125194_51465	NW_004515862.1	Scaffold367	51465	GG	AA	1946941546
SNP_P4_125195_51474	NW_004515862.1	Scaffold367	51474	GG	TT	1946941549
SNP_P4_125196_51493	NW_004515862.1	Scaffold367	51493	CC	TT	1946941551
SNP_P4_125197_51519	NW_004515862.1	Scaffold367	51519	CC	TT	1946941553
SNP_P4_125198_51521	NW_004515862.1	Scaffold367	51521	CC	TT	1946941555
SNP_P4_125199_51552	NW_004515862.1	Scaffold367	51552	TT	AA	1946941557
SNP_P4_125200_51565	NW_004515862.1	Scaffold367	51565	GG	CC	1946941559
SNP_P4_125201_51567	NW_004515862.1	Scaffold367	51567	GG	AA	1946941561
SNP_P4_125202_51613	NW_004515862.1	Scaffold367	51613	TT	CC	1946941563
SNP_P4_125203_51651	NW_004515862.1	Scaffold367	51651	TT	CC	1946941565
SNP_P4_125204_51714	NW_004515862.1	Scaffold367	51714	TT	AA	1946941567
SNP_P4_125205_51716	NW_004515862.1	Scaffold367	51716	GG	AA	1946941569
SNP_P4_125206_52116	NW_004515862.1	Scaffold367	52116	CC	TT	1946941571
SNP_P4_125207_52450	NW_004515862.1	Scaffold367	52450	AA	GG	1946941573
SNP_P4_125208_52497	NW_004515862.1	Scaffold367	52497	TT	AA	1946941575
SNP_P4_125209_52539	NW_004515862.1	Scaffold367	52539	GG	CC	1946941577
SNP_P4_125210_55349	NW_004515862.1	Scaffold367	55349	TT	CC	1946941579
SNP_P4_125211_55744	NW_004515862.1	Scaffold367	55744	AA	CC	1946941581
SNP_P4_125212_55811	NW_004515862.1	Scaffold367	55811	TT	CC	1946941583
SNP_P4_125213_61872	NW_004515862.1	Scaffold367	61872	CC	TT	1946941585
SNP_P4_125214_62720	NW_004515862.1	Scaffold367	62720	TT	AA	1946941587
SNP_P4_125215_62750	NW_004515862.1	Scaffold367	62750	TT	CC	1946941589
SNP_P4_125216_67302	NW_004515862.1	Scaffold367	67302	TT	CC	1946941591
SNP_P4_125217_67661	NW_004515862.1	Scaffold367	67661	TT	CC	1946941593
SNP_P4_125218_72151	NW_004515862.1	Scaffold367	72151	AA	TT	1946941595
SNP_P4_125219_72175	NW_004515862.1	Scaffold367	72175	CC	GG	1946941597
SNP_P4_125220_72195	NW_004515862.1	Scaffold367	72195	AA	CC	1946941599
SNP_P4_125221_72278	NW_004515862.1	Scaffold367	72278	AA	GG	1946941601
SNP_P4_125222_72284	NW_004515862.1	Scaffold367	72284	TT	CC	1946941603
SNP_P4_125223_72306	NW_004515862.1	Scaffold367	72306	TT	CC	1946941605
SNP_P4_125224_72307	NW_004515862.1	Scaffold367	72307	GG	AA	1946941607
SNP_P4_125225_78255	NW_004515862.1	Scaffold367	78255	CC	TT	1946941609
SNP_P4_125226_78950	NW_004515862.1	Scaffold367	78950	TT	CC	1946941611
SNP_P4_125227_79302	NW_004515862.1	Scaffold367	79302	AA	GG	1946941613
SNP_P4_125228_79352	NW_004515862.1	Scaffold367	79352	AA	GG	1946941615
SNP_P4_125229_82072	NW_004515862.1	Scaffold367	82072	CC	AA	1946941617
SNP_P4_125230_82075	NW_004515862.1	Scaffold367	82075	AA	TT	1946941619

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_125233_86246	NW_004515862.1	Scaffold367	86246	AA	GG	1946941621
SNP_P4_125234_86291	NW_004515862.1	Scaffold367	86291	TT	CC	1946941623
SNP_P4_125235_86297	NW_004515862.1	Scaffold367	86297	CC	TT	1946941625
SNP_P4_125236_86315	NW_004515862.1	Scaffold367	86315	TT	GG	1946941627
SNP_P4_125237_86322	NW_004515862.1	Scaffold367	86322	CC	TT	1946941629
SNP_P4_125238_86330	NW_004515862.1	Scaffold367	86330	GG	AA	1946941631
SNP_P4_125239_86371	NW_004515862.1	Scaffold367	86371	CC	GG	1946941633
SNP_P4_125240_92566	NW_004515862.1	Scaffold367	92566	GG	AA	1946941635
SNP_P4_125241_92766	NW_004515862.1	Scaffold367	92766	CC	TT	1946941637
SNP_P4_125242_92781	NW_004515862.1	Scaffold367	92781	CC	TT	1946941639
SNP_P4_125243_92869	NW_004515862.1	Scaffold367	92869	TT	GG	1946941641
SNP_P4_125244_92871	NW_004515862.1	Scaffold367	92871	TT	AA	1946941643
SNP_P4_125245_92883	NW_004515862.1	Scaffold367	92883	AA	GG	1946941645
SNP_P4_125246_101069	NW_004515862.1	Scaffold367	101069	AA	GG	1946941647
SNP_P4_125247_118802	NW_004515862.1	Scaffold367	118802	GG	TT	1946941649
SNP_P4_125248_119040	NW_004515862.1	Scaffold367	119040	CC	TT	1946941651
SNP_P4_125249_119101	NW_004515862.1	Scaffold367	119101	CC	TT	1946941653
SNP_P4_125250_119108	NW_004515862.1	Scaffold367	119108	TT	CC	1946941655
SNP_P4_125251_119132	NW_004515862.1	Scaffold367	119132	AA	TT	1946941657
SNP_P4_125252_119149	NW_004515862.1	Scaffold367	119149	TT	AA	1946941659
SNP_P4_125253_119179	NW_004515862.1	Scaffold367	119179	TT	CC	1946941661
SNP_P4_125254_119777	NW_004515862.1	Scaffold367	119777	TT	CC	1946941663
SNP_P4_125255_119784	NW_004515862.1	Scaffold367	119784	TT	GG	1946941665
SNP_P4_125256_119791	NW_004515862.1	Scaffold367	119791	AA	GG	1946941667
SNP_P4_125257_119802	NW_004515862.1	Scaffold367	119802	GG	AA	1946941669
SNP_P4_125258_119827	NW_004515862.1	Scaffold367	119827	CC	AA	1946941671
SNP_P4_125259_119831	NW_004515862.1	Scaffold367	119831	TT	GG	1946941673
SNP_P4_125260_128668	NW_004515862.1	Scaffold367	128668	CC	TT	1946941675
SNP_P4_125261_133841	NW_004515862.1	Scaffold367	133841	AA	GG	1946941677
SNP_P4_125262_134133	NW_004515862.1	Scaffold367	134133	AA	CC	1946941679
SNP_P4_125263_137135	NW_004515862.1	Scaffold367	137135	TT	AA	1946941681
SNP_P4_125264_137347	NW_004515862.1	Scaffold367	137347	AA	TT	1946941683
SNP_P4_125265_137351	NW_004515862.1	Scaffold367	137351	GG	AA	1946941685
SNP_P4_125266_145817	NW_004515862.1	Scaffold367	145817	AA	GG	1946941687
SNP_P4_125267_146413	NW_004515862.1	Scaffold367	146413	AA	GG	1946941689
SNP_P4_125268_146414	NW_004515862.1	Scaffold367	146414	GG	AA	1946941691
SNP_P4_125269_149303	NW_004515862.1	Scaffold367	149303	AA	TT	1946941693
SNP_P4_125270_149351	NW_004515862.1	Scaffold367	149351	GG	AA	1946941695
SNP_P4_125271_149352	NW_004515862.1	Scaffold367	149352	AA	GG	1946941697
SNP_P4_125272_149373	NW_004515862.1	Scaffold367	149373	TT	AA	1946941699
SNP_P4_125273_149394	NW_004515862.1	Scaffold367	149394	CC	GG	1946941701
SNP_P4_125274_149401	NW_004515862.1	Scaffold367	149401	AA	GG	1946941703

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_125276_149427	NW_004515862.1	Scaffold367	149427	GG	TT	1946941707
SNP_P4_125277_149526	NW_004515862.1	Scaffold367	149526	TT	AA	1946941709
SNP_P4_125278_149632	NW_004515862.1	Scaffold367	149632	AA	TT	1946941711
SNP_P4_125279_157833	NW_004515862.1	Scaffold367	157833	AA	CC	1946941713
SNP_P4_125280_157839	NW_004515862.1	Scaffold367	157839	TT	CC	1946941715
SNP_P4_125281_158212	NW_004515862.1	Scaffold367	158212	AA	GG	1946941717
SNP_P4_125282_158228	NW_004515862.1	Scaffold367	158228	TT	CC	1946941719
SNP_P4_125285_11430	NW_004515863.1	Scaffold369	11430	CC	AA	1946941721
SNP_P4_125286_15892	NW_004515863.1	Scaffold369	15892	CC	TT	1946941723
SNP_P4_125287_19216	NW_004515863.1	Scaffold369	19216	CC	TT	1946941724
SNP_P4_125288_28989	NW_004515863.1	Scaffold369	28989	AA	GG	1946941726
SNP_P4_125289_29001	NW_004515863.1	Scaffold369	29001	AA	TT	1946941728
SNP_P4_125290_44434	NW_004515863.1	Scaffold369	44434	CC	TT	1946941730
SNP_P4_125292_48588	NW_004515863.1	Scaffold369	48588	GG	AA	1946941732
SNP_P4_125293_48594	NW_004515863.1	Scaffold369	48594	AA	GG	1946941734
SNP_P4_125294_48599	NW_004515863.1	Scaffold369	48599	GG	CC	1946941736
SNP_P4_125295_48606	NW_004515863.1	Scaffold369	48606	AA	GG	1946941738
SNP_P4_125296_48658	NW_004515863.1	Scaffold369	48658	TT	CC	1946941740
SNP_P4_125298_100123	NW_004515863.1	Scaffold369	100123	CC	TT	1946941742
SNP_P4_125301_157763	NW_004515863.1	Scaffold369	157763	GG	AA	1946941744
SNP_P4_125302_183894	NW_004515863.1	Scaffold369	183894	CC	GG	1946941746
SNP_P4_125303_183903	NW_004515863.1	Scaffold369	183903	TT	CC	1946941748
SNP_P4_125304_184089	NW_004515863.1	Scaffold369	184089	AA	GG	1946941750
SNP_P4_125305_17207	NW_004515864.1	Scaffold370	17207	GG	AA	1946941752
SNP_P4_125306_23051	NW_004515864.1	Scaffold370	23051	AA	GG	1946941754
SNP_P4_125307_23426	NW_004515864.1	Scaffold370	23426	AA	TT	1946941756
SNP_P4_125308_23499	NW_004515864.1	Scaffold370	23499	GG	AA	1946941758
SNP_P4_125309_23510	NW_004515864.1	Scaffold370	23510	CC	AA	1946941760
SNP_P4_125310_23549	NW_004515864.1	Scaffold370	23549	GG	CC	1946941762
SNP_P4_125311_23734	NW_004515864.1	Scaffold370	23734	TT	AA	1946941764
SNP_P4_125312_23798	NW_004515864.1	Scaffold370	23798	TT	CC	1946941766
SNP_P4_125313_23822	NW_004515864.1	Scaffold370	23822	AA	TT	1946941768
SNP_P4_125314_23833	NW_004515864.1	Scaffold370	23833	CC	AA	1946941770
SNP_P4_125315_23878	NW_004515864.1	Scaffold370	23878	TT	CC	1946941772
SNP_P4_125316_25701	NW_004515864.1	Scaffold370	25701	AA	CC	1946941774
SNP_P4_125317_26972	NW_004515864.1	Scaffold370	26972	TT	CC	1946941777
SNP_P4_125318_27063	NW_004515864.1	Scaffold370	27063	GG	CC	1946941779
SNP_P4_125319_28971	NW_004515864.1	Scaffold370	28971	CC	TT	1946941781
SNP_P4_125320_28972	NW_004515864.1	Scaffold370	28972	AA	GG	1946941783
SNP_P4_125321_28995	NW_004515864.1	Scaffold370	28995	TT	CC	1946941785
SNP_P4_125322_29007	NW_004515864.1	Scaffold370	29007	TT	AA	1946941787

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_125324_29081	NW_004515864.1	Scaffold370	29081	TT	CC	1946941791
SNP_P4_125325_29170	NW_004515864.1	Scaffold370	29170	CC	TT	1946941793
SNP_P4_125326_29315	NW_004515864.1	Scaffold370	29315	GG	CC	1946941795
SNP_P4_125327_29353	NW_004515864.1	Scaffold370	29353	CC	TT	1946941797
SNP_P4_125328_29522	NW_004515864.1	Scaffold370	29522	AA	TT	1946941800
SNP_P4_125329_29593	NW_004515864.1	Scaffold370	29593	AA	GG	1946941802
SNP_P4_125330_29599	NW_004515864.1	Scaffold370	29599	AA	GG	1946941804
SNP_P4_125331_29606	NW_004515864.1	Scaffold370	29606	CC	TT	1946941806
SNP_P4_125332_29753	NW_004515864.1	Scaffold370	29753	AA	GG	1946941808
SNP_P4_125333_29815	NW_004515864.1	Scaffold370	29815	CC	AA	1946941810
SNP_P4_125334_29975	NW_004515864.1	Scaffold370	29975	CC	AA	1946941812
SNP_P4_125335_31759	NW_004515864.1	Scaffold370	31759	TT	CC	1946941814
SNP_P4_125336_31845	NW_004515864.1	Scaffold370	31845	AA	GG	1946941817
SNP_P4_125337_32002	NW_004515864.1	Scaffold370	32002	TT	CC	1946941819
SNP_P4_125338_32087	NW_004515864.1	Scaffold370	32087	AA	TT	1946941821
SNP_P4_125339_32120	NW_004515864.1	Scaffold370	32120	AA	GG	1946941823
SNP_P4_125340_32347	NW_004515864.1	Scaffold370	32347	AA	GG	1946941825
SNP_P4_125341_32362	NW_004515864.1	Scaffold370	32362	TT	CC	1946941827
SNP_P4_125342_32385	NW_004515864.1	Scaffold370	32385	CC	TT	1946941829
SNP_P4_125343_32400	NW_004515864.1	Scaffold370	32400	TT	CC	1946941831
SNP_P4_125344_32405	NW_004515864.1	Scaffold370	32405	CC	GG	1946941833
SNP_P4_125345_32419	NW_004515864.1	Scaffold370	32419	AA	GG	1946941835
SNP_P4_125346_32429	NW_004515864.1	Scaffold370	32429	CC	AA	1946941837
SNP_P4_125347_32430	NW_004515864.1	Scaffold370	32430	CC	AA	1946941839
SNP_P4_125348_32591	NW_004515864.1	Scaffold370	32591	AA	GG	1946941841
SNP_P4_125349_32593	NW_004515864.1	Scaffold370	32593	AA	GG	1946941843
SNP_P4_125350_32613	NW_004515864.1	Scaffold370	32613	TT	GG	1946941845
SNP_P4_125351_32646	NW_004515864.1	Scaffold370	32646	GG	AA	1946941847
SNP_P4_125352_32648	NW_004515864.1	Scaffold370	32648	CC	TT	1946941849
SNP_P4_125353_32757	NW_004515864.1	Scaffold370	32757	AA	GG	1946941851
SNP_P4_125354_34053	NW_004515864.1	Scaffold370	34053	CC	TT	1946941853
SNP_P4_125355_34087	NW_004515864.1	Scaffold370	34087	GG	TT	1946941855
SNP_P4_125356_34192	NW_004515864.1	Scaffold370	34192	GG	AA	1946941857
SNP_P4_125357_34327	NW_004515864.1	Scaffold370	34327	GG	CC	1946941859
SNP_P4_125358_34353	NW_004515864.1	Scaffold370	34353	TT	AA	1946941861
SNP_P4_125359_34388	NW_004515864.1	Scaffold370	34388	AA	TT	1946941863
SNP_P4_125360_34442	NW_004515864.1	Scaffold370	34442	CC	TT	1946941866
SNP_P4_125361_34479	NW_004515864.1	Scaffold370	34479	CC	TT	1946941868
SNP_P4_125362_34504	NW_004515864.1	Scaffold370	34504	CC	TT	1946941870
SNP_P4_125363_34610	NW_004515864.1	Scaffold370	34610	TT	CC	1946941872
SNP_P4_125364_34678	NW_004515864.1	Scaffold370	34678	CC	TT	1946941874

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_125365_34746	NW_004515864.1	Scaffold370	34746	TT	GG	1946941876
SNP_P4_125366_34754	NW_004515864.1	Scaffold370	34754	CC	GG	1946941878
SNP_P4_125367_34773	NW_004515864.1	Scaffold370	34773	TT	CC	1946941880
SNP_P4_125368_34971	NW_004515864.1	Scaffold370	34971	GG	CC	1946941882
SNP_P4_125369_34979	NW_004515864.1	Scaffold370	34979	CC	AA	1946941884
SNP_P4_125370_35001	NW_004515864.1	Scaffold370	35001	GG	AA	1946941886
SNP_P4_125371_35081	NW_004515864.1	Scaffold370	35081	GG	AA	1946941888
SNP_P4_125372_35277	NW_004515864.1	Scaffold370	35277	TT	GG	1946941890
SNP_P4_125373_35288	NW_004515864.1	Scaffold370	35288	TT	GG	1946941892
SNP_P4_125374_35363	NW_004515864.1	Scaffold370	35363	CC	TT	1946941894
SNP_P4_125375_35420	NW_004515864.1	Scaffold370	35420	CC	TT	1946941896
SNP_P4_125376_35461	NW_004515864.1	Scaffold370	35461	AA	CC	1946941898
SNP_P4_125377_35479	NW_004515864.1	Scaffold370	35479	AA	GG	1946941900
SNP_P4_125378_35705	NW_004515864.1	Scaffold370	35705	AA	CC	1946941902
SNP_P4_125379_35708	NW_004515864.1	Scaffold370	35708	AA	GG	1946941904
SNP_P4_125380_35741	NW_004515864.1	Scaffold370	35741	GG	TT	1946941906
SNP_P4_125381_35752	NW_004515864.1	Scaffold370	35752	AA	CC	1946941908
SNP_P4_125382_35824	NW_004515864.1	Scaffold370	35824	GG	AA	1946941910
SNP_P4_125383_35865	NW_004515864.1	Scaffold370	35865	CC	TT	1946941912
SNP_P4_125384_35868	NW_004515864.1	Scaffold370	35868	TT	CC	1946941914
SNP_P4_125385_36003	NW_004515864.1	Scaffold370	36003	TT	CC	1946941916
SNP_P4_125386_36056	NW_004515864.1	Scaffold370	36056	GG	TT	1946941918
SNP_P4_125387_36728	NW_004515864.1	Scaffold370	36728	CC	TT	1946941920
SNP_P4_125388_36757	NW_004515864.1	Scaffold370	36757	AA	GG	1946941922
SNP_P4_125389_36843	NW_004515864.1	Scaffold370	36843	CC	AA	1946941924
SNP_P4_125390_36881	NW_004515864.1	Scaffold370	36881	AA	GG	1946941926
SNP_P4_125391_36922	NW_004515864.1	Scaffold370	36922	CC	TT	1946941928
SNP_P4_125392_37008	NW_004515864.1	Scaffold370	37008	AA	CC	1946941930
SNP_P4_125393_37065	NW_004515864.1	Scaffold370	37065	TT	CC	1946941932
SNP_P4_125394_37073	NW_004515864.1	Scaffold370	37073	AA	GG	1946941934
SNP_P4_125395_37122	NW_004515864.1	Scaffold370	37122	TT	CC	1946941936
SNP_P4_125396_37273	NW_004515864.1	Scaffold370	37273	GG	AA	1946941938
SNP_P4_125397_37310	NW_004515864.1	Scaffold370	37310	TT	GG	1946941939
SNP_P4_125398_37316	NW_004515864.1	Scaffold370	37316	CC	TT	1946941941
SNP_P4_125399_37532	NW_004515864.1	Scaffold370	37532	AA	GG	1946941943
SNP_P4_125400_37565	NW_004515864.1	Scaffold370	37565	TT	AA	1946941945
SNP_P4_125401_37738	NW_004515864.1	Scaffold370	37738	GG	AA	1946941947
SNP_P4_125402_37882	NW_004515864.1	Scaffold370	37882	AA	CC	1946941949
SNP_P4_125403_37912	NW_004515864.1	Scaffold370	37912	GG	AA	1946941951
SNP_P4_125404_37913	NW_004515864.1	Scaffold370	37913	GG	AA	1946941953
SNP_P4_125405_37928	NW_004515864.1	Scaffold370	37928	TT	AA	1946941955
SNP_P4_125406_37950	NW_004515864.1	Scaffold370	37950	CC	TT	1946941957

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_125408_38053	NW_004515864.1	Scaffold370	38053	CC	TT	1946941961
SNP_P4_125409_38054	NW_004515864.1	Scaffold370	38054	TT	CC	1946941963
SNP_P4_125410_38065	NW_004515864.1	Scaffold370	38065	GG	TT	1946941965
SNP_P4_125411_38069	NW_004515864.1	Scaffold370	38069	CC	AA	1946941967
SNP_P4_125412_38071	NW_004515864.1	Scaffold370	38071	TT	AA	1946941969
SNP_P4_125413_38074	NW_004515864.1	Scaffold370	38074	TT	GG	1946941971
SNP_P4_125414_38099	NW_004515864.1	Scaffold370	38099	GG	CC	1946941973
SNP_P4_125415_38121	NW_004515864.1	Scaffold370	38121	CC	TT	1946941975
SNP_P4_125416_38145	NW_004515864.1	Scaffold370	38145	TT	AA	1946941977
SNP_P4_125417_38157	NW_004515864.1	Scaffold370	38157	TT	CC	1946941979
SNP_P4_125418_38159	NW_004515864.1	Scaffold370	38159	AA	TT	1946941981
SNP_P4_125419_38180	NW_004515864.1	Scaffold370	38180	TT	AA	1946941983
SNP_P4_125420_38192	NW_004515864.1	Scaffold370	38192	TT	CC	1946941986
SNP_P4_125421_38261	NW_004515864.1	Scaffold370	38261	GG	TT	1946941988
SNP_P4_125422_38263	NW_004515864.1	Scaffold370	38263	TT	CC	1946941990
SNP_P4_125423_38349	NW_004515864.1	Scaffold370	38349	TT	CC	1946941992
SNP_P4_125424_38352	NW_004515864.1	Scaffold370	38352	GG	AA	1946941994
SNP_P4_125425_38391	NW_004515864.1	Scaffold370	38391	CC	GG	1946941996
SNP_P4_125426_38430	NW_004515864.1	Scaffold370	38430	TT	CC	1946941998
SNP_P4_125427_38477	NW_004515864.1	Scaffold370	38477	TT	CC	1946942000
SNP_P4_125428_38565	NW_004515864.1	Scaffold370	38565	CC	AA	1946942002
SNP_P4_125429_38573	NW_004515864.1	Scaffold370	38573	AA	GG	1946942004
SNP_P4_125430_38598	NW_004515864.1	Scaffold370	38598	TT	CC	1946942006
SNP_P4_125431_38868	NW_004515864.1	Scaffold370	38868	CC	TT	1946942008
SNP_P4_125432_38957	NW_004515864.1	Scaffold370	38957	CC	TT	1946942010
SNP_P4_125433_39269	NW_004515864.1	Scaffold370	39269	AA	CC	1946942012
SNP_P4_125434_39306	NW_004515864.1	Scaffold370	39306	TT	CC	1946942014
SNP_P4_125435_39992	NW_004515864.1	Scaffold370	39992	GG	TT	1946942016
SNP_P4_125436_40009	NW_004515864.1	Scaffold370	40009	GG	CC	1946942018
SNP_P4_125437_40024	NW_004515864.1	Scaffold370	40024	TT	GG	1946942020
SNP_P4_125438_40196	NW_004515864.1	Scaffold370	40196	AA	GG	1946942022
SNP_P4_125439_40215	NW_004515864.1	Scaffold370	40215	TT	CC	1946942024
SNP_P4_125440_40257	NW_004515864.1	Scaffold370	40257	TT	CC	1946942026
SNP_P4_125441_40351	NW_004515864.1	Scaffold370	40351	AA	GG	1946942028
SNP_P4_125442_40404	NW_004515864.1	Scaffold370	40404	TT	CC	1946942030
SNP_P4_125443_40440	NW_004515864.1	Scaffold370	40440	CC	GG	1946942032
SNP_P4_125444_40442	NW_004515864.1	Scaffold370	40442	CC	TT	1946942034
SNP_P4_125445_40445	NW_004515864.1	Scaffold370	40445	TT	CC	1946942036
SNP_P4_125446_40458	NW_004515864.1	Scaffold370	40458	TT	AA	1946942038
SNP_P4_125447_43528	NW_004515864.1	Scaffold370	43528	TT	GG	1946942040
SNP_P4_125448_43547	NW_004515864.1	Scaffold370	43547	AA	GG	1946942042

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SNP_P4_125450_43631	NW_004515864.1	Scaffold370	43631	TT	CC	1946942046
SNP_P4_125451_43644	NW_004515864.1	Scaffold370	43644	TT	CC	1946942048
SNP_P4_125452_43844	NW_004515864.1	Scaffold370	43844	AA	GG	1946942050
SNP_P4_125453_43849	NW_004515864.1	Scaffold370	43849	GG	AA	1946942052
SNP_P4_125454_43889	NW_004515864.1	Scaffold370	43889	CC	TT	1946942054
SNP_P4_125455_44052	NW_004515864.1	Scaffold370	44052	CC	GG	1946942056
SNP_P4_125456_45128	NW_004515864.1	Scaffold370	45128	GG	TT	1946942058
SNP_P4_125457_45144	NW_004515864.1	Scaffold370	45144	CC	TT	1946942060
SNP_P4_125458_45266	NW_004515864.1	Scaffold370	45266	CC	TT	1946942062
SNP_P4_125459_45364	NW_004515864.1	Scaffold370	45364	AA	TT	1946942065
SNP_P4_125460_45386	NW_004515864.1	Scaffold370	45386	TT	AA	1946942067
SNP_P4_125461_45467	NW_004515864.1	Scaffold370	45467	GG	AA	1946942069
SNP_P4_125462_45477	NW_004515864.1	Scaffold370	45477	CC	AA	1946942071
SNP_P4_125463_45481	NW_004515864.1	Scaffold370	45481	GG	AA	1946942073
SNP_P4_125464_45516	NW_004515864.1	Scaffold370	45516	CC	AA	1946942075
SNP_P4_125465_45567	NW_004515864.1	Scaffold370	45567	CC	AA	1946942077
SNP_P4_125466_45593	NW_004515864.1	Scaffold370	45593	TT	CC	1946942079
SNP_P4_125467_45606	NW_004515864.1	Scaffold370	45606	GG	AA	1946942081
SNP_P4_125468_45607	NW_004515864.1	Scaffold370	45607	GG	TT	1946942083
SNP_P4_125469_45628	NW_004515864.1	Scaffold370	45628	TT	CC	1946942085
SNP_P4_125470_45648	NW_004515864.1	Scaffold370	45648	CC	TT	1946942087
SNP_P4_125471_45695	NW_004515864.1	Scaffold370	45695	AA	GG	1946942089
SNP_P4_125472_45699	NW_004515864.1	Scaffold370	45699	GG	TT	1946942091
SNP_P4_125473_45719	NW_004515864.1	Scaffold370	45719	AA	GG	1946942093
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SNP_P4_125475_45739	NW_004515864.1	Scaffold370	45739	GG	AA	1946942097
SNP_P4_125476_45785	NW_004515864.1	Scaffold370	45785	CC	TT	1946942099
SNP_P4_125477_45844	NW_004515864.1	Scaffold370	45844	GG	CC	1946942101
SNP_P4_125478_45945	NW_004515864.1	Scaffold370	45945	GG	AA	1946942103
SNP_P4_125479_46036	NW_004515864.1	Scaffold370	46036	CC	TT	1946942105
SNP_P4_125480_46088	NW_004515864.1	Scaffold370	46088	AA	TT	1946942107
SNP_P4_125481_46119	NW_004515864.1	Scaffold370	46119	AA	GG	1946942109
SNP_P4_125482_46171	NW_004515864.1	Scaffold370	46171	CC	GG	1946942111
SNP_P4_125483_46217	NW_004515864.1	Scaffold370	46217	GG	AA	1946942113
SNP_P4_125484_46219	NW_004515864.1	Scaffold370	46219	CC	AA	1946942115
SNP_P4_125485_46327	NW_004515864.1	Scaffold370	46327	TT	GG	1946942117
SNP_P4_125486_46358	NW_004515864.1	Scaffold370	46358	TT	CC	1946942119
SNP_P4_125487_48935	NW_004515864.1	Scaffold370	48935	AA	TT	1946942121
SNP_P4_125488_49010	NW_004515864.1	Scaffold370	49010	TT	AA	1946942123
SNP_P4_125489_49062	NW_004515864.1	Scaffold370	49062	TT	CC	1946942125
SNP_P4_125490_49064	NW_004515864.1	Scaffold370	49064	AA	GG	1946942127

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SNP_P4_125492_50613	NW_004515864.1	Scaffold370	50613	CC	AA	1946942131
SNP_P4_125493_50636	NW_004515864.1	Scaffold370	50636	TT	CC	1946942133
SNP_P4_125494_50765	NW_004515864.1	Scaffold370	50765	CC	TT	1946942135
SNP_P4_125495_50796	NW_004515864.1	Scaffold370	50796	GG	CC	1946942137
SNP_P4_125496_51144	NW_004515864.1	Scaffold370	51144	TT	AA	1946942139
SNP_P4_125497_52172	NW_004515864.1	Scaffold370	52172	CC	AA	1946942141
SNP_P4_125498_52299	NW_004515864.1	Scaffold370	52299	TT	AA	1946942143
SNP_P4_125499_52661	NW_004515864.1	Scaffold370	52661	TT	AA	1946942145
SNP_P4_125500_52678	NW_004515864.1	Scaffold370	52678	TT	CC	1946942147
SNP_P4_125501_52693	NW_004515864.1	Scaffold370	52693	TT	AA	1946942149
SNP_P4_125503_56308	NW_004515864.1	Scaffold370	56308	AA	TT	1946942151
SNP_P4_125504_56344	NW_004515864.1	Scaffold370	56344	TT	GG	1946942153
SNP_P4_125505_56614	NW_004515864.1	Scaffold370	56614	GG	TT	1946942155
SNP_P4_125506_56737	NW_004515864.1	Scaffold370	56737	TT	GG	1946942157
SNP_P4_125507_56738	NW_004515864.1	Scaffold370	56738	CC	TT	1946942159
SNP_P4_125508_56744	NW_004515864.1	Scaffold370	56744	AA	GG	1946942161
SNP_P4_125509_56814	NW_004515864.1	Scaffold370	56814	TT	AA	1946942163
SNP_P4_125510_56840	NW_004515864.1	Scaffold370	56840	CC	GG	1946942165
SNP_P4_125511_56981	NW_004515864.1	Scaffold370	56981	AA	TT	1946942167
SNP_P4_125512_56984	NW_004515864.1	Scaffold370	56984	AA	GG	1946942169
SNP_P4_125513_57068	NW_004515864.1	Scaffold370	57068	TT	CC	1946942171
SNP_P4_125514_57103	NW_004515864.1	Scaffold370	57103	TT	CC	1946942173
SNP_P4_125515_57109	NW_004515864.1	Scaffold370	57109	AA	TT	1946942176
SNP_P4_125516_57128	NW_004515864.1	Scaffold370	57128	TT	CC	1946942178
SNP_P4_125517_57185	NW_004515864.1	Scaffold370	57185	TT	CC	1946942180
SNP_P4_125518_57246	NW_004515864.1	Scaffold370	57246	GG	AA	1946942182
SNP_P4_125519_57250	NW_004515864.1	Scaffold370	57250	GG	TT	1946942184
SNP_P4_125520_57253	NW_004515864.1	Scaffold370	57253	AA	CC	1946942186
SNP_P4_125521_57254	NW_004515864.1	Scaffold370	57254	AA	CC	1946942188
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SNP_P4_125526_58119	NW_004515864.1	Scaffold370	58119	AA	GG	1946942198
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SNP_P4_125530_58235	NW_004515864.1	Scaffold370	58235	CC	TT	1946942204
SNP_P4_125531_58275	NW_004515864.1	Scaffold370	58275	CC	TT	1946942206
SNP_P4_125532_58280	NW_004515864.1	Scaffold370	58280	CC	TT	1946942209
SNP_P4_125533_58286	NW_004515864.1	Scaffold370	58286	CC	TT	1946942211
SNP_P4_125534_58330	NW_004515864.1	Scaffold370	58330	AA	CC	1946942213

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_125536_58386	NW_004515864.1	Scaffold370	58386	AA	CC	1946942217
SNP_P4_125537_58666	NW_004515864.1	Scaffold370	58666	TT	AA	1946942219
SNP_P4_125538_58671	NW_004515864.1	Scaffold370	58671	CC	GG	1946942221
SNP_P4_125539_58865	NW_004515864.1	Scaffold370	58865	AA	GG	1946942223
SNP_P4_125540_58897	NW_004515864.1	Scaffold370	58897	TT	CC	1946942225
SNP_P4_125541_58956	NW_004515864.1	Scaffold370	58956	CC	GG	1946942227
SNP_P4_125542_58971	NW_004515864.1	Scaffold370	58971	AA	GG	1946942230
SNP_P4_125543_59015	NW_004515864.1	Scaffold370	59015	TT	CC	1946942232
SNP_P4_125544_59099	NW_004515864.1	Scaffold370	59099	TT	AA	1946942234
SNP_P4_125545_59123	NW_004515864.1	Scaffold370	59123	GG	CC	1946942236
SNP_P4_125546_59166	NW_004515864.1	Scaffold370	59166	CC	TT	1946942238
SNP_P4_125547_59179	NW_004515864.1	Scaffold370	59179	CC	TT	1946942240
SNP_P4_125548_59223	NW_004515864.1	Scaffold370	59223	TT	AA	1946942242
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SNP_P4_125550_59440	NW_004515864.1	Scaffold370	59440	AA	GG	1946942246
SNP_P4_125551_59459	NW_004515864.1	Scaffold370	59459	CC	AA	1946942248
SNP_P4_125552_59473	NW_004515864.1	Scaffold370	59473	GG	AA	1946942250
SNP_P4_125553_59498	NW_004515864.1	Scaffold370	59498	AA	CC	1946942252
SNP_P4_125554_59683	NW_004515864.1	Scaffold370	59683	GG	AA	1946942254
SNP_P4_125555_59704	NW_004515864.1	Scaffold370	59704	TT	AA	1946942256
SNP_P4_125556_59744	NW_004515864.1	Scaffold370	59744	TT	AA	1946942258
SNP_P4_125557_60075	NW_004515864.1	Scaffold370	60075	CC	AA	1946942260
SNP_P4_125558_60089	NW_004515864.1	Scaffold370	60089	AA	GG	1946942262
SNP_P4_125559_62480	NW_004515864.1	Scaffold370	62480	AA	CC	1946942264
SNP_P4_125560_62545	NW_004515864.1	Scaffold370	62545	TT	CC	1946942266
SNP_P4_125561_62870	NW_004515864.1	Scaffold370	62870	GG	AA	1946942268
SNP_P4_125562_62945	NW_004515864.1	Scaffold370	62945	CC	TT	1946942270
SNP_P4_125563_62997	NW_004515864.1	Scaffold370	62997	GG	AA	1946942272
SNP_P4_125564_62999	NW_004515864.1	Scaffold370	62999	AA	TT	1946942274
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SNP_P4_125567_63226	NW_004515864.1	Scaffold370	63226	CC	TT	1946942280
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SNP_P4_125570_63309	NW_004515864.1	Scaffold370	63309	AA	GG	1946942286
SNP_P4_125571_63382	NW_004515864.1	Scaffold370	63382	CC	GG	1946942288
SNP_P4_125572_63575	NW_004515864.1	Scaffold370	63575	TT	AA	1946942290
SNP_P4_125573_63598	NW_004515864.1	Scaffold370	63598	TT	AA	1946942292
SNP_P4_125574_63605	NW_004515864.1	Scaffold370	63605	GG	TT	1946942294
SNP_P4_125575_63680	NW_004515864.1	Scaffold370	63680	GG	AA	1946942296
SNP_P4_125576_63711	NW_004515864.1	Scaffold370	63711	CC	TT	1946942298

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_125578_63810	NW_004515864.1	Scaffold370	63810	CC	TT	1946942302
SNP_P4_125579_63812	NW_004515864.1	Scaffold370	63812	AA	TT	1946942304
SNP_P4_125580_63822	NW_004515864.1	Scaffold370	63822	TT	GG	1946942306
SNP_P4_125581_63828	NW_004515864.1	Scaffold370	63828	AA	TT	1946942308
SNP_P4_125582_63867	NW_004515864.1	Scaffold370	63867	AA	GG	1946942310
SNP_P4_125583_63962	NW_004515864.1	Scaffold370	63962	AA	TT	1946942312
SNP_P4_125584_63990	NW_004515864.1	Scaffold370	63990	GG	AA	1946942314
SNP_P4_125585_64010	NW_004515864.1	Scaffold370	64010	TT	GG	1946942316
SNP_P4_125586_64026	NW_004515864.1	Scaffold370	64026	TT	GG	1946942318
SNP_P4_125587_64055	NW_004515864.1	Scaffold370	64055	CC	TT	1946942320
SNP_P4_125588_64099	NW_004515864.1	Scaffold370	64099	TT	CC	1946942322
SNP_P4_125589_64103	NW_004515864.1	Scaffold370	64103	CC	GG	1946942325
SNP_P4_125590_64173	NW_004515864.1	Scaffold370	64173	AA	GG	1946942327
SNP_P4_125591_64263	NW_004515864.1	Scaffold370	64263	GG	TT	1946942329
SNP_P4_125592_64285	NW_004515864.1	Scaffold370	64285	CC	GG	1946942331
SNP_P4_125593_64365	NW_004515864.1	Scaffold370	64365	TT	CC	1946942333
SNP_P4_125594_64448	NW_004515864.1	Scaffold370	64448	TT	CC	1946942335
SNP_P4_125595_64473	NW_004515864.1	Scaffold370	64473	GG	AA	1946942337
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SNP_P4_125597_64536	NW_004515864.1	Scaffold370	64536	TT	CC	1946942341
SNP_P4_125598_64586	NW_004515864.1	Scaffold370	64586	CC	TT	1946942343
SNP_P4_125599_64622	NW_004515864.1	Scaffold370	64622	CC	TT	1946942345
SNP_P4_125600_64632	NW_004515864.1	Scaffold370	64632	GG	AA	1946942347
SNP_P4_125601_64637	NW_004515864.1	Scaffold370	64637	GG	AA	1946942349
SNP_P4_125602_64804	NW_004515864.1	Scaffold370	64804	CC	TT	1946942351
SNP_P4_125603_64920	NW_004515864.1	Scaffold370	64920	AA	GG	1946942353
SNP_P4_125604_64933	NW_004515864.1	Scaffold370	64933	TT	GG	1946942355
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SNP_P4_125606_65046	NW_004515864.1	Scaffold370	65046	GG	TT	1946942359
SNP_P4_125607_65489	NW_004515864.1	Scaffold370	65489	CC	AA	1946942361
SNP_P4_125608_65492	NW_004515864.1	Scaffold370	65492	GG	CC	1946942363
SNP_P4_125609_65509	NW_004515864.1	Scaffold370	65509	GG	TT	1946942365
SNP_P4_125610_65769	NW_004515864.1	Scaffold370	65769	GG	CC	1946942367
SNP_P4_125611_66081	NW_004515864.1	Scaffold370	66081	AA	GG	1946942369
SNP_P4_125612_66087	NW_004515864.1	Scaffold370	66087	GG	AA	1946942371
SNP_P4_125613_66209	NW_004515864.1	Scaffold370	66209	CC	TT	1946942373
SNP_P4_125614_66210	NW_004515864.1	Scaffold370	66210	CC	TT	1946942375
SNP_P4_125615_66332	NW_004515864.1	Scaffold370	66332	CC	GG	1946942377
SNP_P4_125616_66403	NW_004515864.1	Scaffold370	66403	GG	AA	1946942379
SNP_P4_125617_66432	NW_004515864.1	Scaffold370	66432	TT	GG	1946942381
SNP_P4_125618_66510	NW_004515864.1	Scaffold370	66510	AA	GG	1946942383

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_125620_66589	NW_004515864.1	Scaffold370	66589	CC	GG	1946942388
SNP_P4_125621_66594	NW_004515864.1	Scaffold370	66594	GG	TT	1946942390
SNP_P4_125622_66665	NW_004515864.1	Scaffold370	66665	TT	CC	1946942392
SNP_P4_125623_66715	NW_004515864.1	Scaffold370	66715	AA	TT	1946942394
SNP_P4_125624_66782	NW_004515864.1	Scaffold370	66782	TT	GG	1946942396
SNP_P4_125625_66812	NW_004515864.1	Scaffold370	66812	TT	AA	1946942398
SNP_P4_125626_66846	NW_004515864.1	Scaffold370	66846	GG	TT	1946942400
SNP_P4_125627_66887	NW_004515864.1	Scaffold370	66887	GG	AA	1946942402
SNP_P4_125628_66893	NW_004515864.1	Scaffold370	66893	GG	AA	1946942404
SNP_P4_125629_66902	NW_004515864.1	Scaffold370	66902	AA	CC	1946942406
SNP_P4_125630_66932	NW_004515864.1	Scaffold370	66932	AA	GG	1946942408
SNP_P4_125631_66981	NW_004515864.1	Scaffold370	66981	AA	TT	1946942410
SNP_P4_125632_66988	NW_004515864.1	Scaffold370	66988	TT	CC	1946942412
SNP_P4_125633_67010	NW_004515864.1	Scaffold370	67010	GG	AA	1946942414
SNP_P4_125634_67029	NW_004515864.1	Scaffold370	67029	CC	AA	1946942417
SNP_P4_125635_67037	NW_004515864.1	Scaffold370	67037	TT	GG	1946942419
SNP_P4_125636_67084	NW_004515864.1	Scaffold370	67084	GG	AA	1946942421
SNP_P4_125637_67242	NW_004515864.1	Scaffold370	67242	AA	GG	1946942423
SNP_P4_125638_67338	NW_004515864.1	Scaffold370	67338	TT	AA	1946942425
SNP_P4_125639_67375	NW_004515864.1	Scaffold370	67375	AA	GG	1946942427
SNP_P4_125640_70848	NW_004515864.1	Scaffold370	70848	CC	TT	1946942429
SNP_P4_125641_71015	NW_004515864.1	Scaffold370	71015	AA	TT	1946942431
SNP_P4_125642_71257	NW_004515864.1	Scaffold370	71257	AA	TT	1946942433
SNP_P4_125643_74350	NW_004515864.1	Scaffold370	74350	AA	TT	1946942435
SNP_P4_125644_74405	NW_004515864.1	Scaffold370	74405	GG	TT	1946942437
SNP_P4_125645_74552	NW_004515864.1	Scaffold370	74552	AA	TT	1946942439
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SNP_P4_125648_74811	NW_004515864.1	Scaffold370	74811	AA	CC	1946942445
SNP_P4_125650_74885	NW_004515864.1	Scaffold370	74885	AA	GG	1946942447
SNP_P4_125651_74898	NW_004515864.1	Scaffold370	74898	CC	TT	1946942449
SNP_P4_125652_74918	NW_004515864.1	Scaffold370	74918	GG	TT	1946942451
SNP_P4_125653_74982	NW_004515864.1	Scaffold370	74982	CC	TT	1946942453
SNP_P4_125654_74995	NW_004515864.1	Scaffold370	74995	TT	AA	1946942455
SNP_P4_125655_75018	NW_004515864.1	Scaffold370	75018	CC	TT	1946942458
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SNP_P4_125657_75060	NW_004515864.1	Scaffold370	75060	AA	TT	1946942462
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SNP_P4_125660_75183	NW_004515864.1	Scaffold370	75183	AA	GG	1946942466
SNP_P4_125661_75222	NW_004515864.1	Scaffold370	75222	TT	GG	1946942468
SNP_P4_125662_75268	NW_004515864.1	Scaffold370	75268	GG	CC	1946942470

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_125664_75324	NW_004515864.1	Scaffold370	75324	GG	CC	1946942474
SNP_P4_125665_75395	NW_004515864.1	Scaffold370	75395	GG	AA	1946942476
SNP_P4_125666_75396	NW_004515864.1	Scaffold370	75396	GG	AA	1946942477
SNP_P4_125667_75399	NW_004515864.1	Scaffold370	75399	CC	GG	1946942479
SNP_P4_125668_75412	NW_004515864.1	Scaffold370	75412	GG	AA	1946942481
SNP_P4_125669_75435	NW_004515864.1	Scaffold370	75435	GG	CC	1946942483
SNP_P4_125670_75444	NW_004515864.1	Scaffold370	75444	CC	AA	1946942485
SNP_P4_125671_75453	NW_004515864.1	Scaffold370	75453	TT	GG	1946942487
SNP_P4_125672_75460	NW_004515864.1	Scaffold370	75460	GG	AA	1946942489
SNP_P4_125673_75605	NW_004515864.1	Scaffold370	75605	GG	CC	1946942491
SNP_P4_125674_75672	NW_004515864.1	Scaffold370	75672	AA	GG	1946942493
SNP_P4_125675_76732	NW_004515864.1	Scaffold370	76732	TT	AA	1946942495
SNP_P4_125676_76803	NW_004515864.1	Scaffold370	76803	TT	GG	1946942497
SNP_P4_125677_76894	NW_004515864.1	Scaffold370	76894	GG	AA	1946942499
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SNP_P4_125681_77183	NW_004515864.1	Scaffold370	77183	CC	AA	1946942505
SNP_P4_125682_77267	NW_004515864.1	Scaffold370	77267	AA	CC	1946942506
SNP_P4_125683_77327	NW_004515864.1	Scaffold370	77327	AA	TT	1946942507
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SNP_P4_125686_77658	NW_004515864.1	Scaffold370	77658	CC	AA	1946942510
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SNP_P4_125689_77832	NW_004515864.1	Scaffold370	77832	AA	GG	1946942515
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SNP_P4_125695_78419	NW_004515864.1	Scaffold370	78419	CC	TT	1946942527
SNP_P4_125696_78421	NW_004515864.1	Scaffold370	78421	CC	AA	1946942529
SNP_P4_125697_78585	NW_004515864.1	Scaffold370	78585	AA	GG	1946942531
SNP_P4_125698_78593	NW_004515864.1	Scaffold370	78593	AA	GG	1946942533
SNP_P4_125699_79782	NW_004515864.1	Scaffold370	79782	GG	AA	1946942535
SNP_P4_125700_79822	NW_004515864.1	Scaffold370	79822	CC	TT	1946942537
SNP_P4_125701_79891	NW_004515864.1	Scaffold370	79891	TT	CC	1946942539
SNP_P4_125702_79928	NW_004515864.1	Scaffold370	79928	TT	CC	1946942541
SNP_P4_125703_80014	NW_004515864.1	Scaffold370	80014	CC	TT	1946942542
SNP_P4_125704_80020	NW_004515864.1	Scaffold370	80020	TT	AA	1946942544

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_125706_80490	NW_004515864.1	Scaffold370	80490	GG	CC	1946942548
SNP_P4_125707_80590	NW_004515864.1	Scaffold370	80590	AA	GG	1946942550
SNP_P4_125708_80955	NW_004515864.1	Scaffold370	80955	GG	CC	1946942552
SNP_P4_125709_80996	NW_004515864.1	Scaffold370	80996	CC	TT	1946942554
SNP_P4_125710_81036	NW_004515864.1	Scaffold370	81036	CC	GG	1946942556
SNP_P4_125711_81202	NW_004515864.1	Scaffold370	81202	TT	AA	1946942558
SNP_P4_125712_81208	NW_004515864.1	Scaffold370	81208	CC	GG	1946942560
SNP_P4_125713_81234	NW_004515864.1	Scaffold370	81234	AA	CC	1946942562
SNP_P4_125714_81296	NW_004515864.1	Scaffold370	81296	GG	TT	1946942564
SNP_P4_125715_81311	NW_004515864.1	Scaffold370	81311	TT	CC	1946942566
SNP_P4_125716_81387	NW_004515864.1	Scaffold370	81387	AA	CC	1946942568
SNP_P4_125717_81396	NW_004515864.1	Scaffold370	81396	AA	GG	1946942570
SNP_P4_125718_81488	NW_004515864.1	Scaffold370	81488	GG	AA	1946942572
SNP_P4_125719_81500	NW_004515864.1	Scaffold370	81500	GG	CC	1946942574
SNP_P4_125720_81528	NW_004515864.1	Scaffold370	81528	GG	AA	1946942576
SNP_P4_125721_81581	NW_004515864.1	Scaffold370	81581	CC	TT	1946942578
SNP_P4_125722_81594	NW_004515864.1	Scaffold370	81594	TT	AA	1946942580
SNP_P4_125723_81601	NW_004515864.1	Scaffold370	81601	CC	AA	1946942582
SNP_P4_125724_81636	NW_004515864.1	Scaffold370	81636	AA	TT	1946942584
SNP_P4_125725_81668	NW_004515864.1	Scaffold370	81668	GG	TT	1946942586
SNP_P4_125726_81833	NW_004515864.1	Scaffold370	81833	AA	CC	1946942588
SNP_P4_125727_81855	NW_004515864.1	Scaffold370	81855	GG	CC	1946942590
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SNP_P4_125730_82092	NW_004515864.1	Scaffold370	82092	TT	CC	1946942596
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SNP_P4_125732_82728	NW_004515864.1	Scaffold370	82728	TT	CC	1946942599
SNP_P4_125733_82730	NW_004515864.1	Scaffold370	82730	CC	TT	1946942601
SNP_P4_125734_82940	NW_004515864.1	Scaffold370	82940	CC	GG	1946942603
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SNP_P4_125743_85595	NW_004515864.1	Scaffold370	85595	TT	CC	1946942618
SNP_P4_125744_85625	NW_004515864.1	Scaffold370	85625	TT	GG	1946942620
SNP_P4_125745_85697	NW_004515864.1	Scaffold370	85697	CC	AA	1946942622
SNP_P4_125746_86323	NW_004515864.1	Scaffold370	86323	AA	TT	1946942624
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_125750_86596	NW_004515864.1	Scaffold370	86596	AA	GG	1946942632
SNP_P4_125751_86976	NW_004515864.1	Scaffold370	86976	TT	CC	1946942634
SNP_P4_125752_86983	NW_004515864.1	Scaffold370	86983	GG	AA	1946942636
SNP_P4_125753_87725	NW_004515864.1	Scaffold370	87725	GG	AA	1946942638
SNP_P4_125754_87802	NW_004515864.1	Scaffold370	87802	GG	AA	1946942640
SNP_P4_125755_87919	NW_004515864.1	Scaffold370	87919	TT	AA	1946942642
SNP_P4_125756_88028	NW_004515864.1	Scaffold370	88028	AA	GG	1946942644
SNP_P4_125757_88240	NW_004515864.1	Scaffold370	88240	AA	GG	1946942646
SNP_P4_125758_88272	NW_004515864.1	Scaffold370	88272	AA	GG	1946942648
SNP_P4_125759_88288	NW_004515864.1	Scaffold370	88288	TT	GG	1946942650
SNP_P4_125760_88299	NW_004515864.1	Scaffold370	88299	AA	GG	1946942652
SNP_P4_125761_88448	NW_004515864.1	Scaffold370	88448	CC	TT	1946942654
SNP_P4_125762_88476	NW_004515864.1	Scaffold370	88476	TT	CC	1946942656
SNP_P4_125763_88590	NW_004515864.1	Scaffold370	88590	AA	CC	1946942658
SNP_P4_125764_88622	NW_004515864.1	Scaffold370	88622	GG	AA	1946942660
SNP_P4_125765_88685	NW_004515864.1	Scaffold370	88685	TT	CC	1946942662
SNP_P4_125766_88754	NW_004515864.1	Scaffold370	88754	TT	GG	1946942664
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SNP_P4_125770_89299	NW_004515864.1	Scaffold370	89299	TT	CC	1946942672
SNP_P4_125771_89338	NW_004515864.1	Scaffold370	89338	TT	CC	1946942674
SNP_P4_125772_89358	NW_004515864.1	Scaffold370	89358	AA	GG	1946942676
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SNP_P4_125774_89460	NW_004515864.1	Scaffold370	89460	TT	CC	1946942680
SNP_P4_125775_89500	NW_004515864.1	Scaffold370	89500	AA	TT	1946942682
SNP_P4_125776_89601	NW_004515864.1	Scaffold370	89601	GG	AA	1946942684
SNP_P4_125777_89703	NW_004515864.1	Scaffold370	89703	AA	TT	1946942686
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SNP_P4_125784_90296	NW_004515864.1	Scaffold370	90296	GG	TT	1946942700
SNP_P4_125785_90343	NW_004515864.1	Scaffold370	90343	AA	GG	1946942702
SNP_P4_125786_90386	NW_004515864.1	Scaffold370	90386	TT	AA	1946942704
SNP_P4_125787_90593	NW_004515864.1	Scaffold370	90593	TT	CC	1946942706
SNP_P4_125788_90622	NW_004515864.1	Scaffold370	90622	GG	AA	1946942708
SNP_P4_125789_92651	NW_004515864.1	Scaffold370	92651	AA	CC	1946942709

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_125792_92909	NW_004515864.1	Scaffold370	92909	TT	CC	1946942715
SNP_P4_125793_92931	NW_004515864.1	Scaffold370	92931	AA	GG	1946942717
SNP_P4_125794_92988	NW_004515864.1	Scaffold370	92988	CC	TT	1946942719
SNP_P4_125795_93058	NW_004515864.1	Scaffold370	93058	CC	TT	1946942721
SNP_P4_125796_93085	NW_004515864.1	Scaffold370	93085	GG	AA	1946942724
SNP_P4_125797_93113	NW_004515864.1	Scaffold370	93113	TT	GG	1946942726
SNP_P4_125798_93135	NW_004515864.1	Scaffold370	93135	AA	CC	1946942728
SNP_P4_125799_93185	NW_004515864.1	Scaffold370	93185	TT	CC	1946942730
SNP_P4_125800_93760	NW_004515864.1	Scaffold370	93760	CC	TT	1946942732
SNP_P4_125801_93771	NW_004515864.1	Scaffold370	93771	GG	AA	1946942734
SNP_P4_125802_94081	NW_004515864.1	Scaffold370	94081	GG	AA	1946942736
SNP_P4_125803_94702	NW_004515864.1	Scaffold370	94702	AA	TT	1946942738
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SNP_P4_125805_95297	NW_004515864.1	Scaffold370	95297	TT	CC	1946942742
SNP_P4_125806_95483	NW_004515864.1	Scaffold370	95483	GG	TT	1946942744
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SNP_P4_125814_100022	NW_004515864.1	Scaffold370	100022	TT	GG	1946942760
SNP_P4_125815_100184	NW_004515864.1	Scaffold370	100184	AA	TT	1946942762
SNP_P4_125816_100207	NW_004515864.1	Scaffold370	100207	TT	CC	1946942764
SNP_P4_125817_100319	NW_004515864.1	Scaffold370	100319	CC	AA	1946942766
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SNP_P4_125821_100388	NW_004515864.1	Scaffold370	100388	CC	AA	1946942774
SNP_P4_125822_100389	NW_004515864.1	Scaffold370	100389	AA	TT	1946942776
SNP_P4_125823_100396	NW_004515864.1	Scaffold370	100396	GG	AA	1946942778
SNP_P4_125824_100403	NW_004515864.1	Scaffold370	100403	GG	AA	1946942780
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SNP_P4_125828_100854	NW_004515864.1	Scaffold370	100854	TT	GG	1946942787
SNP_P4_125829_100862	NW_004515864.1	Scaffold370	100862	CC	AA	1946942789
SNP_P4_125830_100882	NW_004515864.1	Scaffold370	100882	TT	CC	1946942791
SNP_P4_125831_100883	NW_004515864.1	Scaffold370	100883	TT	AA	1946942793

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_125834_101009	NW_004515864.1	Scaffold370	101009	AA	GG	1946942799
SNP_P4_125835_101021	NW_004515864.1	Scaffold370	101021	CC	AA	1946942801
SNP_P4_125836_101031	NW_004515864.1	Scaffold370	101031	TT	CC	1946942803
SNP_P4_125837_101101	NW_004515864.1	Scaffold370	101101	AA	GG	1946942805
SNP_P4_125838_101133	NW_004515864.1	Scaffold370	101133	CC	AA	1946942807
SNP_P4_125839_102378	NW_004515864.1	Scaffold370	102378	TT	CC	1946942809
SNP_P4_125840_102515	NW_004515864.1	Scaffold370	102515	GG	AA	1946942811
SNP_P4_125841_102561	NW_004515864.1	Scaffold370	102561	AA	GG	1946942813
SNP_P4_125842_102571	NW_004515864.1	Scaffold370	102571	TT	GG	1946942815
SNP_P4_125843_102572	NW_004515864.1	Scaffold370	102572	GG	AA	1946942817
SNP_P4_125844_102579	NW_004515864.1	Scaffold370	102579	AA	CC	1946942819
SNP_P4_125845_102614	NW_004515864.1	Scaffold370	102614	TT	AA	1946942821
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SNP_P4_125847_102942	NW_004515864.1	Scaffold370	102942	AA	GG	1946942825
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SNP_P4_125849_103099	NW_004515864.1	Scaffold370	103099	AA	GG	1946942829
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SNP_P4_125863_106184	NW_004515864.1	Scaffold370	106184	TT	AA	1946942857
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SNP_P4_125865_106562	NW_004515864.1	Scaffold370	106562	CC	GG	1946942861
SNP_P4_125866_106630	NW_004515864.1	Scaffold370	106630	AA	TT	1946942863
SNP_P4_125867_106631	NW_004515864.1	Scaffold370	106631	AA	CC	1946942865
SNP_P4_125868_106907	NW_004515864.1	Scaffold370	106907	TT	AA	1946942867
SNP_P4_125869_106916	NW_004515864.1	Scaffold370	106916	AA	TT	1946942869
SNP_P4_125870_106918	NW_004515864.1	Scaffold370	106918	TT	CC	1946942871
SNP_P4_125871_106942	NW_004515864.1	Scaffold370	106942	AA	CC	1946942873
SNP_P4_125872_107126	NW_004515864.1	Scaffold370	107126	CC	TT	1946942875
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_125876_107409	NW_004515864.1	Scaffold370	107409	AA	TT	1946942883
SNP_P4_125877_107445	NW_004515864.1	Scaffold370	107445	GG	TT	1946942885
SNP_P4_125878_107450	NW_004515864.1	Scaffold370	107450	TT	CC	1946942887
SNP_P4_125879_107456	NW_004515864.1	Scaffold370	107456	AA	GG	1946942889
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SNP_P4_125885_107856	NW_004515864.1	Scaffold370	107856	CC	AA	1946942901
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SNP_P4_125888_108143	NW_004515864.1	Scaffold370	108143	GG	TT	1946942907
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SNP_P4_125902_123108	NW_004515864.1	Scaffold370	123108	TT	CC	1946942935
SNP_P4_125903_123172	NW_004515864.1	Scaffold370	123172	CC	TT	1946942937
SNP_P4_125904_123174	NW_004515864.1	Scaffold370	123174	GG	AA	1946942939
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SNP_P4_125906_125478	NW_004515864.1	Scaffold370	125478	AA	TT	1946942943
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SNP_P4_125910_137525	NW_004515864.1	Scaffold370	137525	AA	CC	1946942951
SNP_P4_125911_137864	NW_004515864.1	Scaffold370	137864	GG	AA	1946942953
SNP_P4_125912_141303	NW_004515864.1	Scaffold370	141303	AA	CC	1946942955
SNP_P4_125913_141468	NW_004515864.1	Scaffold370	141468	AA	GG	1946942957
SNP_P4_125914_144977	NW_004515864.1	Scaffold370	144977	AA	GG	1946942959
SNP_P4_125915_159245	NW_004515864.1	Scaffold370	159245	AA	GG	1946942962

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_125927_166523	NW_004515864.1	Scaffold370	166523	CC	TT	1946942984
SNP_P4_125928_166841	NW_004515864.1	Scaffold370	166841	CC	TT	1946942986
SNP_P4_125929_166876	NW_004515864.1	Scaffold370	166876	TT	CC	1946942988
SNP_P4_125930_173330	NW_004515864.1	Scaffold370	173330	GG	CC	1946942990
SNP_P4_125932_180842	NW_004515864.1	Scaffold370	180842	TT	CC	1946942992
SNP_P4_125933_181573	NW_004515864.1	Scaffold370	181573	CC	TT	1946942994
SNP_P4_125934_181592	NW_004515864.1	Scaffold370	181592	AA	GG	1946942996
SNP_P4_125935_181612	NW_004515864.1	Scaffold370	181612	GG	CC	1946942998
SNP_P4_125936_181644	NW_004515864.1	Scaffold370	181644	CC	TT	1946943000
SNP_P4_125937_181712	NW_004515864.1	Scaffold370	181712	TT	CC	1946943002
SNP_P4_125938_181747	NW_004515864.1	Scaffold370	181747	CC	AA	1946943004
SNP_P4_125939_181785	NW_004515864.1	Scaffold370	181785	GG	TT	1946943006
SNP_P4_125940_181792	NW_004515864.1	Scaffold370	181792	AA	CC	1946943008
SNP_P4_125941_181952	NW_004515864.1	Scaffold370	181952	GG	AA	1946943010
SNP_P4_125942_181994	NW_004515864.1	Scaffold370	181994	TT	CC	1946943012
SNP_P4_125943_182130	NW_004515864.1	Scaffold370	182130	TT	CC	1946943014
SNP_P4_125944_182133	NW_004515864.1	Scaffold370	182133	TT	AA	1946943016
SNP_P4_125945_182255	NW_004515864.1	Scaffold370	182255	AA	GG	1946943018
SNP_P4_125946_182405	NW_004515864.1	Scaffold370	182405	TT	CC	1946943020
SNP_P4_125947_182444	NW_004515864.1	Scaffold370	182444	CC	TT	1946943022
SNP_P4_125948_182520	NW_004515864.1	Scaffold370	182520	TT	CC	1946943024
SNP_P4_125949_182671	NW_004515864.1	Scaffold370	182671	GG	TT	1946943026
SNP_P4_125950_188605	NW_004515864.1	Scaffold370	188605	GG	AA	1946943028
SNP_P4_125951_192337	NW_004515864.1	Scaffold370	192337	AA	GG	1946943030
SNP_P4_125952_192376	NW_004515864.1	Scaffold370	192376	CC	TT	1946943032
SNP_P4_125953_192469	NW_004515864.1	Scaffold370	192469	AA	TT	1946943034
SNP_P4_125954_198519	NW_004515864.1	Scaffold370	198519	CC	TT	1946943036
SNP_P4_125955_198520	NW_004515864.1	Scaffold370	198520	CC	TT	1946943038
SNP_P4_125956_198564	NW_004515864.1	Scaffold370	198564	CC	TT	1946943040
SNP_P4_125957_837	NW_004515865.1	Scaffold373	837	CC	TT	1946943042
SNP_P4_125958_978	NW_004515865.1	Scaffold373	978	TT	GG	1946943044
SNP_P4_125959_1110	NW_004515865.1	Scaffold373	1110	TT	CC	1946943046

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_125961_1428	NW_004515865.1	Scaffold373	1428	AA	GG	1946943050
SNP_P4_125962_1603	NW_004515865.1	Scaffold373	1603	TT	GG	1946943052
SNP_P4_125963_4458	NW_004515865.1	Scaffold373	4458	TT	AA	1946943054
SNP_P4_125964_4465	NW_004515865.1	Scaffold373	4465	AA	TT	1946943056
SNP_P4_125965_4651	NW_004515865.1	Scaffold373	4651	TT	CC	1946943058
SNP_P4_125966_4993	NW_004515865.1	Scaffold373	4993	GG	TT	1946943060
SNP_P4_125967_5015	NW_004515865.1	Scaffold373	5015	CC	TT	1946943062
SNP_P4_125968_5021	NW_004515865.1	Scaffold373	5021	AA	GG	1946943064
SNP_P4_125969_5022	NW_004515865.1	Scaffold373	5022	AA	GG	1946943066
SNP_P4_125970_5160	NW_004515865.1	Scaffold373	5160	GG	AA	1946943068
SNP_P4_125971_5285	NW_004515865.1	Scaffold373	5285	CC	GG	1946943070
SNP_P4_125972_9896	NW_004515865.1	Scaffold373	9896	AA	CC	1946943072
SNP_P4_125973_20684	NW_004515865.1	Scaffold373	20684	AA	CC	1946943074
SNP_P4_125974_20687	NW_004515865.1	Scaffold373	20687	AA	GG	1946943076
SNP_P4_125975_20702	NW_004515865.1	Scaffold373	20702	GG	TT	1946943078
SNP_P4_125976_23911	NW_004515865.1	Scaffold373	23911	CC	AA	1946943080
SNP_P4_125977_25372	NW_004515865.1	Scaffold373	25372	AA	GG	1946943082
SNP_P4_125978_25373	NW_004515865.1	Scaffold373	25373	GG	AA	1946943084
SNP_P4_125979_25461	NW_004515865.1	Scaffold373	25461	TT	AA	1946943086
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SNP_P4_125982_25701	NW_004515865.1	Scaffold373	25701	TT	GG	1946943092
SNP_P4_125983_25767	NW_004515865.1	Scaffold373	25767	AA	CC	1946943094
SNP_P4_125985_25908	NW_004515865.1	Scaffold373	25908	TT	CC	1946943096
SNP_P4_125986_27689	NW_004515865.1	Scaffold373	27689	CC	AA	1946943097
SNP_P4_125987_27699	NW_004515865.1	Scaffold373	27699	GG	AA	1946943100
SNP_P4_125988_34741	NW_004515865.1	Scaffold373	34741	GG	AA	1946943102
SNP_P4_125989_41154	NW_004515865.1	Scaffold373	41154	AA	GG	1946943104
SNP_P4_125990_41159	NW_004515865.1	Scaffold373	41159	AA	GG	1946943105
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SNP_P4_125994_2231	NW_004515866.1	Scaffold374	2231	CC	TT	1946943114
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SNP_P4_125997_23912	NW_004515866.1	Scaffold374	23912	AA	GG	1946943117
SNP_P4_125998_41075	NW_004515866.1	Scaffold374	41075	TT	CC	1946943119
SNP_P4_125999_47694	NW_004515866.1	Scaffold374	47694	TT	CC	1946943121
SNP_P4_126000_47715	NW_004515866.1	Scaffold374	47715	AA	GG	1946943123
SNP_P4_126001_47730	NW_004515866.1	Scaffold374	47730	TT	GG	1946943125
SNP_P4_126002_47811	NW_004515866.1	Scaffold374	47811	AA	GG	1946943127
SNP_P4_126003_47826	NW_004515866.1	Scaffold374	47826	AA	GG	1946943129

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_126005_47921	NW_004515866.1	Scaffold374	47921	AA	GG	1946943134
SNP_P4_126006_47967	NW_004515866.1	Scaffold374	47967	AA	GG	1946943135
SNP_P4_126007_47971	NW_004515866.1	Scaffold374	47971	TT	GG	1946943137
SNP_P4_126008_48262	NW_004515866.1	Scaffold374	48262	TT	GG	1946943139
SNP_P4_126009_52881	NW_004515866.1	Scaffold374	52881	AA	CC	1946943141
SNP_P4_126010_52918	NW_004515866.1	Scaffold374	52918	GG	AA	1946943144
SNP_P4_126011_52935	NW_004515866.1	Scaffold374	52935	GG	AA	1946943146
SNP_P4_126012_52952	NW_004515866.1	Scaffold374	52952	CC	TT	1946943148
SNP_P4_126013_52997	NW_004515866.1	Scaffold374	52997	AA	GG	1946943150
SNP_P4_126014_53002	NW_004515866.1	Scaffold374	53002	AA	GG	1946943152
SNP_P4_126015_53011	NW_004515866.1	Scaffold374	53011	GG	AA	1946943154
SNP_P4_126016_53045	NW_004515866.1	Scaffold374	53045	AA	CC	1946943156
SNP_P4_126017_53334	NW_004515866.1	Scaffold374	53334	CC	TT	1946943158
SNP_P4_126018_53353	NW_004515866.1	Scaffold374	53353	AA	GG	1946943160
SNP_P4_126019_67026	NW_004515866.1	Scaffold374	67026	AA	GG	1946943161
SNP_P4_126020_67028	NW_004515866.1	Scaffold374	67028	GG	AA	1946943163
SNP_P4_126021_67043	NW_004515866.1	Scaffold374	67043	CC	TT	1946943165
SNP_P4_126022_74654	NW_004515866.1	Scaffold374	74654	AA	GG	1946943167
SNP_P4_126023_77034	NW_004515866.1	Scaffold374	77034	CC	TT	1946943169
SNP_P4_126024_77035	NW_004515866.1	Scaffold374	77035	CC	TT	1946943171
SNP_P4_126025_77110	NW_004515866.1	Scaffold374	77110	GG	AA	1946943173
SNP_P4_126026_77170	NW_004515866.1	Scaffold374	77170	TT	AA	1946943175
SNP_P4_126027_77182	NW_004515866.1	Scaffold374	77182	GG	AA	1946943177
SNP_P4_126028_77591	NW_004515866.1	Scaffold374	77591	CC	GG	1946943179
SNP_P4_126029_77643	NW_004515866.1	Scaffold374	77643	TT	GG	1946943181
SNP_P4_126030_118531	NW_004515866.1	Scaffold374	118531	GG	AA	1946943183
SNP_P4_126031_118558	NW_004515866.1	Scaffold374	118558	TT	GG	1946943185
SNP_P4_126032_119076	NW_004515866.1	Scaffold374	119076	AA	TT	1946943187
SNP_P4_126033_119097	NW_004515866.1	Scaffold374	119097	CC	TT	1946943190
SNP_P4_126034_119656	NW_004515866.1	Scaffold374	119656	TT	CC	1946943192
SNP_P4_126035_119688	NW_004515866.1	Scaffold374	119688	CC	TT	1946943194
SNP_P4_126036_119690	NW_004515866.1	Scaffold374	119690	GG	AA	1946943196
SNP_P4_126037_119822	NW_004515866.1	Scaffold374	119822	GG	AA	1946943198
SNP_P4_126038_120068	NW_004515866.1	Scaffold374	120068	AA	GG	1946943200
SNP_P4_126039_120070	NW_004515866.1	Scaffold374	120070	TT	GG	1946943202
SNP_P4_126040_120162	NW_004515866.1	Scaffold374	120162	CC	TT	1946943204
SNP_P4_126041_120220	NW_004515866.1	Scaffold374	120220	CC	TT	1946943206
SNP_P4_126042_120234	NW_004515866.1	Scaffold374	120234	TT	CC	1946943208
SNP_P4_126043_120250	NW_004515866.1	Scaffold374	120250	TT	CC	1946943210
SNP_P4_126044_120273	NW_004515866.1	Scaffold374	120273	CC	AA	1946943212
SNP_P4_126045_121259	NW_004515866.1	Scaffold374	121259	TT	CC	1946943214

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_126047_121853	NW_004515866.1	Scaffold374	121853	CC	AA	1946943218
SNP_P4_126048_121859	NW_004515866.1	Scaffold374	121859	TT	AA	1946943220
SNP_P4_126049_121892	NW_004515866.1	Scaffold374	121892	TT	GG	1946943222
SNP_P4_126050_121899	NW_004515866.1	Scaffold374	121899	CC	TT	1946943224
SNP_P4_126051_121914	NW_004515866.1	Scaffold374	121914	TT	AA	1946943226
SNP_P4_126052_122170	NW_004515866.1	Scaffold374	122170	GG	AA	1946943228
SNP_P4_126053_128794	NW_004515866.1	Scaffold374	128794	TT	CC	1946943230
SNP_P4_126054_128831	NW_004515866.1	Scaffold374	128831	CC	TT	1946943232
SNP_P4_126055_128836	NW_004515866.1	Scaffold374	128836	CC	AA	1946943234
SNP_P4_126056_128860	NW_004515866.1	Scaffold374	128860	CC	TT	1946943236
SNP_P4_126057_128879	NW_004515866.1	Scaffold374	128879	TT	CC	1946943238
SNP_P4_126058_128887	NW_004515866.1	Scaffold374	128887	GG	AA	1946943240
SNP_P4_126059_128891	NW_004515866.1	Scaffold374	128891	TT	AA	1946943242
SNP_P4_126060_128915	NW_004515866.1	Scaffold374	128915	TT	CC	1946943245
SNP_P4_126061_128924	NW_004515866.1	Scaffold374	128924	CC	TT	1946943247
SNP_P4_126062_128929	NW_004515866.1	Scaffold374	128929	GG	AA	1946943249
SNP_P4_126063_128930	NW_004515866.1	Scaffold374	128930	GG	AA	1946943251
SNP_P4_126064_128948	NW_004515866.1	Scaffold374	128948	CC	TT	1946943253
SNP_P4_126065_129092	NW_004515866.1	Scaffold374	129092	TT	CC	1946943255
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SNP_P4_126067_129136	NW_004515866.1	Scaffold374	129136	GG	AA	1946943259
SNP_P4_126068_129152	NW_004515866.1	Scaffold374	129152	TT	GG	1946943261
SNP_P4_126069_131546	NW_004515866.1	Scaffold374	131546	TT	CC	1946943263
SNP_P4_126070_135172	NW_004515866.1	Scaffold374	135172	GG	AA	1946943266
SNP_P4_126071_141975	NW_004515866.1	Scaffold374	141975	AA	TT	1946943268
SNP_P4_126072_141992	NW_004515866.1	Scaffold374	141992	CC	TT	1946943270
SNP_P4_126074_142015	NW_004515866.1	Scaffold374	142015	AA	GG	1946943272
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SNP_P4_126076_142057	NW_004515866.1	Scaffold374	142057	AA	TT	1946943276
SNP_P4_126078_142062	NW_004515866.1	Scaffold374	142062	CC	AA	1946943279
SNP_P4_126079_142072	NW_004515866.1	Scaffold374	142072	AA	TT	1946943281
SNP_P4_126080_142080	NW_004515866.1	Scaffold374	142080	TT	AA	1946943283
SNP_P4_126081_142125	NW_004515866.1	Scaffold374	142125	TT	GG	1946943285
SNP_P4_126082_142141	NW_004515866.1	Scaffold374	142141	GG	AA	1946943287
SNP_P4_126083_142142	NW_004515866.1	Scaffold374	142142	TT	CC	1946943289
SNP_P4_126084_142359	NW_004515866.1	Scaffold374	142359	TT	AA	1946943291
SNP_P4_126085_147200	NW_004515866.1	Scaffold374	147200	TT	CC	1946943293
SNP_P4_126086_147232	NW_004515866.1	Scaffold374	147232	AA	GG	1946943295
SNP_P4_126087_147247	NW_004515866.1	Scaffold374	147247	TT	AA	1946943297
SNP_P4_126088_147305	NW_004515866.1	Scaffold374	147305	TT	CC	1946943299
SNP_P4_126089_147327	NW_004515866.1	Scaffold374	147327	GG	AA	1946943301

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_126091_147379	NW_004515866.1	Scaffold374	147379	TT	AA	1946943306
SNP_P4_126092_149255	NW_004515866.1	Scaffold374	149255	CC	AA	1946943308
SNP_P4_126093_149256	NW_004515866.1	Scaffold374	149256	CC	TT	1946943310
SNP_P4_126094_149275	NW_004515866.1	Scaffold374	149275	GG	AA	1946943312
SNP_P4_126095_149311	NW_004515866.1	Scaffold374	149311	CC	TT	1946943314
SNP_P4_126096_149313	NW_004515866.1	Scaffold374	149313	TT	AA	1946943316
SNP_P4_126097_149315	NW_004515866.1	Scaffold374	149315	AA	GG	1946943318
SNP_P4_126098_149341	NW_004515866.1	Scaffold374	149341	GG	CC	1946943320
SNP_P4_126099_149359	NW_004515866.1	Scaffold374	149359	CC	TT	1946943322
SNP_P4_126100_149565	NW_004515866.1	Scaffold374	149565	TT	CC	1946943325
SNP_P4_126101_149601	NW_004515866.1	Scaffold374	149601	AA	GG	1946943327
SNP_P4_126102_149626	NW_004515866.1	Scaffold374	149626	TT	CC	1946943329
SNP_P4_126103_154652	NW_004515866.1	Scaffold374	154652	TT	GG	1946943331
SNP_P4_126105_154757	NW_004515866.1	Scaffold374	154757	AA	CC	1946943333
SNP_P4_126106_154813	NW_004515866.1	Scaffold374	154813	GG	AA	1946943335
SNP_P4_126107_155119	NW_004515866.1	Scaffold374	155119	AA	TT	1946943338
SNP_P4_126108_156625	NW_004515866.1	Scaffold374	156625	CC	TT	1946943340
SNP_P4_126109_156704	NW_004515866.1	Scaffold374	156704	TT	GG	1946943342
SNP_P4_126110_156728	NW_004515866.1	Scaffold374	156728	AA	GG	1946943344
SNP_P4_126111_156901	NW_004515866.1	Scaffold374	156901	CC	TT	1946943346
SNP_P4_126112_157118	NW_004515866.1	Scaffold374	157118	AA	GG	1946943348
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SNP_P4_126115_188346	NW_004515866.1	Scaffold374	188346	AA	GG	1946943352
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SNP_P4_126118_202399	NW_004515866.1	Scaffold374	202399	CC	TT	1946943359
SNP_P4_126119_202772	NW_004515866.1	Scaffold374	202772	CC	AA	1946943361
SNP_P4_126120_202814	NW_004515866.1	Scaffold374	202814	CC	TT	1946943363
SNP_P4_126121_203047	NW_004515866.1	Scaffold374	203047	CC	TT	1946943365
SNP_P4_126122_203052	NW_004515866.1	Scaffold374	203052	TT	CC	1946943367
SNP_P4_126123_203451	NW_004515866.1	Scaffold374	203451	CC	GG	1946943369
SNP_P4_126124_204002	NW_004515866.1	Scaffold374	204002	AA	CC	1946943371
SNP_P4_126125_205502	NW_004515866.1	Scaffold374	205502	AA	TT	1946943374
SNP_P4_126127_206219	NW_004515866.1	Scaffold374	206219	TT	AA	1946943376
SNP_P4_126128_206222	NW_004515866.1	Scaffold374	206222	GG	AA	1946943378
SNP_P4_126129_206403	NW_004515866.1	Scaffold374	206403	CC	TT	1946943381
SNP_P4_126130_206412	NW_004515866.1	Scaffold374	206412	AA	GG	1946943383
SNP_P4_126131_7454	NW_004515867.1	Scaffold377	7454	TT	AA	1946943385
SNP_P4_126132_7964	NW_004515867.1	Scaffold377	7964	GG	AA	1946943387
SNP_P4_126133_28470	NW_004515867.1	Scaffold377	28470	GG	AA	1946943389
SNP_P4_126134_30513	NW_004515867.1	Scaffold377	30513	CC	TT	1946943392

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_126136_30671	NW_004515867.1	Scaffold377	30671	CC	TT	1946943396
SNP_P4_126137_30744	NW_004515867.1	Scaffold377	30744	GG	AA	1946943398
SNP_P4_126138_30780	NW_004515867.1	Scaffold377	30780	AA	GG	1946943400
SNP_P4_126139_30814	NW_004515867.1	Scaffold377	30814	CC	TT	1946943402
SNP_P4_126140_30885	NW_004515867.1	Scaffold377	30885	AA	GG	1946943405
SNP_P4_126141_30902	NW_004515867.1	Scaffold377	30902	CC	TT	1946943407
SNP_P4_126142_31186	NW_004515867.1	Scaffold377	31186	AA	GG	1946943409
SNP_P4_126143_75249	NW_004515867.1	Scaffold377	75249	GG	AA	1946943411
SNP_P4_126145_75551	NW_004515867.1	Scaffold377	75551	AA	GG	1946943413
SNP_P4_126146_75561	NW_004515867.1	Scaffold377	75561	TT	AA	1946943415
SNP_P4_126147_75569	NW_004515867.1	Scaffold377	75569	CC	AA	1946943417
SNP_P4_126148_75637	NW_004515867.1	Scaffold377	75637	AA	CC	1946943420
SNP_P4_126149_76481	NW_004515867.1	Scaffold377	76481	TT	CC	1946943422
SNP_P4_126150_91225	NW_004515867.1	Scaffold377	91225	AA	TT	1946943424
SNP_P4_126151_94995	NW_004515867.1	Scaffold377	94995	TT	AA	1946943426
SNP_P4_126152_98792	NW_004515867.1	Scaffold377	98792	TT	CC	1946943428
SNP_P4_126154_98852	NW_004515867.1	Scaffold377	98852	CC	TT	1946943430
SNP_P4_126155_98914	NW_004515867.1	Scaffold377	98914	TT	AA	1946943432
SNP_P4_126156_114751	NW_004515867.1	Scaffold377	114751	CC	TT	1946943434
SNP_P4_126158_161881	NW_004515867.1	Scaffold377	161881	GG	AA	1946943437
SNP_P4_126159_182308	NW_004515867.1	Scaffold377	182308	TT	CC	1946943439
SNP_P4_126160_182512	NW_004515867.1	Scaffold377	182512	AA	GG	1946943441
SNP_P4_126161_182585	NW_004515867.1	Scaffold377	182585	TT	CC	1946943443
SNP_P4_126162_182602	NW_004515867.1	Scaffold377	182602	TT	GG	1946943445
SNP_P4_126163_191612	NW_004515867.1	Scaffold377	191612	GG	AA	1946943447
SNP_P4_126164_191620	NW_004515867.1	Scaffold377	191620	AA	GG	1946943449
SNP_P4_126165_191627	NW_004515867.1	Scaffold377	191627	AA	TT	1946943452
SNP_P4_126166_191656	NW_004515867.1	Scaffold377	191656	TT	GG	1946943454
SNP_P4_126167_191662	NW_004515867.1	Scaffold377	191662	AA	GG	1946943456
SNP_P4_126168_191692	NW_004515867.1	Scaffold377	191692	CC	TT	1946943458
SNP_P4_126169_214561	NW_004515867.1	Scaffold377	214561	GG	AA	1946943460
SNP_P4_126170_214946	NW_004515867.1	Scaffold377	214946	TT	GG	1946943462
SNP_P4_126171_218657	NW_004515867.1	Scaffold377	218657	CC	TT	1946943464
SNP_P4_126172_218660	NW_004515867.1	Scaffold377	218660	CC	AA	1946943466
SNP_P4_126173_218787	NW_004515867.1	Scaffold377	218787	TT	CC	1946943469
SNP_P4_126175_251358	NW_004515867.1	Scaffold377	251358	GG	AA	1946943471
SNP_P4_126176_251392	NW_004515867.1	Scaffold377	251392	GG	AA	1946943473
SNP_P4_126177_251395	NW_004515867.1	Scaffold377	251395	AA	TT	1946943475
SNP_P4_126178_251401	NW_004515867.1	Scaffold377	251401	GG	AA	1946943477
SNP_P4_126179_251465	NW_004515867.1	Scaffold377	251465	AA	GG	1946943479
SNP_P4_126180_251489	NW_004515867.1	Scaffold377	251489	GG	AA	1946943481

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_126184_264023	NW_004515867.1	Scaffold377	264023	AA	TT	1946943487
SNP_P4_126185_286551	NW_004515867.1	Scaffold377	286551	CC	AA	1946943489
SNP_P4_126186_301111	NW_004515867.1	Scaffold377	301111	TT	CC	1946943491
SNP_P4_126187_301116	NW_004515867.1	Scaffold377	301116	CC	AA	1946943493
SNP_P4_126188_324942	NW_004515867.1	Scaffold377	324942	GG	AA	1946943495
SNP_P4_126189_326730	NW_004515867.1	Scaffold377	326730	AA	TT	1946943497
SNP_P4_126190_331009	NW_004515867.1	Scaffold377	331009	CC	AA	1946943499
SNP_P4_126191_331048	NW_004515867.1	Scaffold377	331048	CC	TT	1946943501
SNP_P4_126192_331055	NW_004515867.1	Scaffold377	331055	GG	AA	1946943503
SNP_P4_126193_331083	NW_004515867.1	Scaffold377	331083	AA	TT	1946943505
SNP_P4_126194_337398	NW_004515867.1	Scaffold377	337398	GG	CC	1946943508
SNP_P4_126195_343204	NW_004515867.1	Scaffold377	343204	AA	TT	1946943510
SNP_P4_126196_349966	NW_004515867.1	Scaffold377	349966	CC	AA	1946943512
SNP_P4_126197_393554	NW_004515867.1	Scaffold377	393554	TT	CC	1946943514
SNP_P4_126198_393624	NW_004515867.1	Scaffold377	393624	AA	GG	1946943516
SNP_P4_126199_394431	NW_004515867.1	Scaffold377	394431	TT	CC	1946943518
SNP_P4_126200_397320	NW_004515867.1	Scaffold377	397320	CC	TT	1946943520
SNP_P4_126201_397324	NW_004515867.1	Scaffold377	397324	AA	GG	1946943522
SNP_P4_126202_397333	NW_004515867.1	Scaffold377	397333	TT	AA	1946943524
SNP_P4_126203_397583	NW_004515867.1	Scaffold377	397583	CC	TT	1946943526
SNP_P4_126204_400093	NW_004515867.1	Scaffold377	400093	GG	AA	1946943528
SNP_P4_126206_400204	NW_004515867.1	Scaffold377	400204	GG	AA	1946943530
SNP_P4_126209_400329	NW_004515867.1	Scaffold377	400329	TT	CC	1946943532
SNP_P4_126210_400330	NW_004515867.1	Scaffold377	400330	GG	AA	1946943534
SNP_P4_126211_400426	NW_004515867.1	Scaffold377	400426	AA	GG	1946943536
SNP_P4_126212_400450	NW_004515867.1	Scaffold377	400450	AA	GG	1946943538
SNP_P4_126213_400509	NW_004515867.1	Scaffold377	400509	GG	AA	1946943540
SNP_P4_126214_400563	NW_004515867.1	Scaffold377	400563	AA	GG	1946943542
SNP_P4_126215_404899	NW_004515867.1	Scaffold377	404899	GG	TT	1946943544
SNP_P4_126216_405173	NW_004515867.1	Scaffold377	405173	TT	GG	1946943546
SNP_P4_126217_419071	NW_004515867.1	Scaffold377	419071	GG	TT	1946943548
SNP_P4_126218_419104	NW_004515867.1	Scaffold377	419104	TT	CC	1946943550
SNP_P4_126219_426514	NW_004515867.1	Scaffold377	426514	CC	TT	1946943552
SNP_P4_126220_431991	NW_004515867.1	Scaffold377	431991	TT	CC	1946943554
SNP_P4_126221_432342	NW_004515867.1	Scaffold377	432342	TT	GG	1946943556
SNP_P4_126222_433630	NW_004515867.1	Scaffold377	433630	CC	AA	1946943557
SNP_P4_126223_434815	NW_004515867.1	Scaffold377	434815	CC	TT	1946943558
SNP_P4_126224_5170	NW_004515869.1	Scaffold379	5170	CC	TT	1946943559
SNP_P4_126225_9427	NW_004515869.1	Scaffold379	9427	CC	TT	1946943561
SNP_P4_126226_22745	NW_004515869.1	Scaffold379	22745	AA	CC	1946943563

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_126228_80522	NW_004515869.1	Scaffold379	80522	TT	AA	1946943567
SNP_P4_126230_91586	NW_004515869.1	Scaffold379	91586	AA	GG	1946943569
SNP_P4_126231_108286	NW_004515869.1	Scaffold379	108286	TT	GG	1946943570
SNP_P4_126232_108310	NW_004515869.1	Scaffold379	108310	GG	AA	1946943572
SNP_P4_126233_108328	NW_004515869.1	Scaffold379	108328	GG	AA	1946943574
SNP_P4_126234_135818	NW_004515869.1	Scaffold379	135818	AA	TT	1946943576
SNP_P4_126235_135875	NW_004515869.1	Scaffold379	135875	CC	GG	1946943578
SNP_P4_126237_136237	NW_004515869.1	Scaffold379	136237	AA	GG	1946943580
SNP_P4_126238_136238	NW_004515869.1	Scaffold379	136238	CC	TT	1946943582
SNP_P4_126239_136256	NW_004515869.1	Scaffold379	136256	AA	TT	1946943584
SNP_P4_126240_136337	NW_004515869.1	Scaffold379	136337	TT	CC	1946943586
SNP_P4_126241_136339	NW_004515869.1	Scaffold379	136339	TT	AA	1946943588
SNP_P4_126242_136398	NW_004515869.1	Scaffold379	136398	GG	AA	1946943590
SNP_P4_126243_162899	NW_004515869.1	Scaffold379	162899	TT	AA	1946943592
SNP_P4_126244_162900	NW_004515869.1	Scaffold379	162900	AA	TT	1946943594
SNP_P4_126246_176523	NW_004515869.1	Scaffold379	176523	TT	GG	1946943596
SNP_P4_126247_176772	NW_004515869.1	Scaffold379	176772	AA	GG	1946943598
SNP_P4_126249_5466	NW_004515870.1	Scaffold381	5466	AA	GG	1946943600
SNP_P4_126250_5538	NW_004515870.1	Scaffold381	5538	TT	CC	1946943602
SNP_P4_126251_6077	NW_004515870.1	Scaffold381	6077	TT	AA	1946943604
SNP_P4_126253_6568	NW_004515870.1	Scaffold381	6568	CC	GG	1946943606
SNP_P4_126254_6571	NW_004515870.1	Scaffold381	6571	TT	AA	1946943608
SNP_P4_126255_6668	NW_004515870.1	Scaffold381	6668	TT	AA	1946943610
SNP_P4_126256_6691	NW_004515870.1	Scaffold381	6691	GG	AA	1946943612
SNP_P4_126258_6698	NW_004515870.1	Scaffold381	6698	GG	TT	1946943614
SNP_P4_126259_6735	NW_004515870.1	Scaffold381	6735	TT	GG	1946943616
SNP_P4_126260_6741	NW_004515870.1	Scaffold381	6741	AA	GG	1946943618
SNP_P4_126261_6742	NW_004515870.1	Scaffold381	6742	CC	TT	1946943620
SNP_P4_126263_6929	NW_004515870.1	Scaffold381	6929	AA	TT	1946943622
SNP_P4_126265_8526	NW_004515870.1	Scaffold381	8526	GG	TT	1946943624
SNP_P4_126266_8585	NW_004515870.1	Scaffold381	8585	GG	AA	1946943626
SNP_P4_126267_8824	NW_004515870.1	Scaffold381	8824	CC	GG	1946943628
SNP_P4_126268_9958	NW_004515870.1	Scaffold381	9958	CC	AA	1946943630
SNP_P4_126269_9983	NW_004515870.1	Scaffold381	9983	TT	CC	1946943632
SNP_P4_126270_10024	NW_004515870.1	Scaffold381	10024	AA	GG	1946943634
SNP_P4_126271_10168	NW_004515870.1	Scaffold381	10168	TT	GG	1946943636
SNP_P4_126272_10185	NW_004515870.1	Scaffold381	10185	TT	AA	1946943638
SNP_P4_126273_10189	NW_004515870.1	Scaffold381	10189	AA	GG	1946943640
SNP_P4_126274_10191	NW_004515870.1	Scaffold381	10191	TT	GG	1946943642
SNP_P4_126275_10287	NW_004515870.1	Scaffold381	10287	CC	TT	1946943644
SNP_P4_126276_10341	NW_004515870.1	Scaffold381	10341	GG	TT	1946943646

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_126278_12211	NW_004515870.1	Scaffold381	12211	AA	GG	1946943650
SNP_P4_126279_21418	NW_004515871.1	Scaffold382	21418	CC	TT	1946943652
SNP_P4_126280_22488	NW_004515871.1	Scaffold382	22488	AA	GG	1946943654
SNP_P4_126281_22763	NW_004515871.1	Scaffold382	22763	CC	AA	1946943656
SNP_P4_126282_22838	NW_004515871.1	Scaffold382	22838	TT	CC	1946943658
SNP_P4_126283_24801	NW_004515871.1	Scaffold382	24801	GG	AA	1946943661
SNP_P4_126284_24838	NW_004515871.1	Scaffold382	24838	AA	TT	1946943663
SNP_P4_126285_24874	NW_004515871.1	Scaffold382	24874	TT	AA	1946943665
SNP_P4_126286_25038	NW_004515871.1	Scaffold382	25038	AA	GG	1946943667
SNP_P4_126287_25195	NW_004515871.1	Scaffold382	25195	AA	TT	1946943669
SNP_P4_126288_25202	NW_004515871.1	Scaffold382	25202	GG	AA	1946943671
SNP_P4_126289_25844	NW_004515871.1	Scaffold382	25844	AA	GG	1946943673
SNP_P4_126290_26494	NW_004515871.1	Scaffold382	26494	TT	CC	1946943675
SNP_P4_126291_26547	NW_004515871.1	Scaffold382	26547	GG	AA	1946943677
SNP_P4_126292_27174	NW_004515871.1	Scaffold382	27174	CC	TT	1946943679
SNP_P4_126293_64045	NW_004515871.1	Scaffold382	64045	CC	AA	1946943681
SNP_P4_126294_65322	NW_004515871.1	Scaffold382	65322	GG	CC	1946943683
SNP_P4_126295_65369	NW_004515871.1	Scaffold382	65369	TT	CC	1946943685
SNP_P4_126296_65508	NW_004515871.1	Scaffold382	65508	GG	AA	1946943687
SNP_P4_126297_65509	NW_004515871.1	Scaffold382	65509	TT	CC	1946943689
SNP_P4_126298_69204	NW_004515871.1	Scaffold382	69204	TT	CC	1946943691
SNP_P4_126299_77500	NW_004515871.1	Scaffold382	77500	AA	TT	1946943693
SNP_P4_126300_77590	NW_004515871.1	Scaffold382	77590	AA	GG	1946943695
SNP_P4_126301_77747	NW_004515871.1	Scaffold382	77747	TT	AA	1946943697
SNP_P4_126302_77838	NW_004515871.1	Scaffold382	77838	AA	GG	1946943699
SNP_P4_126303_77843	NW_004515871.1	Scaffold382	77843	GG	AA	1946943701
SNP_P4_126304_90507	NW_004515871.1	Scaffold382	90507	TT	AA	1946943703
SNP_P4_126305_90785	NW_004515871.1	Scaffold382	90785	AA	GG	1946943705
SNP_P4_126306_90807	NW_004515871.1	Scaffold382	90807	CC	TT	1946943707
SNP_P4_126307_90823	NW_004515871.1	Scaffold382	90823	CC	TT	1946943709
SNP_P4_126308_90925	NW_004515871.1	Scaffold382	90925	TT	GG	1946943711
SNP_P4_126309_90928	NW_004515871.1	Scaffold382	90928	AA	TT	1946943713
SNP_P4_126310_90933	NW_004515871.1	Scaffold382	90933	GG	CC	1946943715
SNP_P4_126311_90950	NW_004515871.1	Scaffold382	90950	AA	GG	1946943717
SNP_P4_126312_90984	NW_004515871.1	Scaffold382	90984	CC	GG	1946943719
SNP_P4_126313_91129	NW_004515871.1	Scaffold382	91129	TT	CC	1946943721
SNP_P4_126314_91295	NW_004515871.1	Scaffold382	91295	GG	AA	1946943723
SNP_P4_126315_91332	NW_004515871.1	Scaffold382	91332	GG	CC	1946943725
SNP_P4_126316_104713	NW_004515871.1	Scaffold382	104713	TT	CC	1946943727
SNP_P4_126317_104900	NW_004515871.1	Scaffold382	104900	AA	CC	1946943729
SNP_P4_126318_105474	NW_004515871.1	Scaffold382	105474	TT	CC	1946943731

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_126320_9695	NW_004515872.1	Scaffold383	9695	CC	TT	1946943735
SNP_P4_126321_9788	NW_004515872.1	Scaffold383	9788	TT	CC	1946943737
SNP_P4_126322_9805	NW_004515872.1	Scaffold383	9805	TT	CC	1946943739
SNP_P4_126323_9807	NW_004515872.1	Scaffold383	9807	GG	AA	1946943741
SNP_P4_126324_9808	NW_004515872.1	Scaffold383	9808	AA	TT	1946943744
SNP_P4_126325_9867	NW_004515872.1	Scaffold383	9867	AA	CC	1946943746
SNP_P4_126326_9877	NW_004515872.1	Scaffold383	9877	TT	CC	1946943748
SNP_P4_126327_9878	NW_004515872.1	Scaffold383	9878	GG	AA	1946943750
SNP_P4_126328_9882	NW_004515872.1	Scaffold383	9882	AA	GG	1946943752
SNP_P4_126329_9932	NW_004515872.1	Scaffold383	9932	TT	CC	1946943754
SNP_P4_126330_14581	NW_004515872.1	Scaffold383	14581	TT	AA	1946943756
SNP_P4_126331_17300	NW_004515872.1	Scaffold383	17300	GG	AA	1946943758
SNP_P4_126332_17444	NW_004515872.1	Scaffold383	17444	GG	CC	1946943760
SNP_P4_126333_17454	NW_004515872.1	Scaffold383	17454	TT	GG	1946943762
SNP_P4_126334_17501	NW_004515872.1	Scaffold383	17501	TT	CC	1946943763
SNP_P4_126335_19794	NW_004515872.1	Scaffold383	19794	TT	GG	1946943765
SNP_P4_126336_21079	NW_004515872.1	Scaffold383	21079	GG	AA	1946943767
SNP_P4_126337_21521	NW_004515872.1	Scaffold383	21521	CC	TT	1946943769
SNP_P4_126338_26907	NW_004515872.1	Scaffold383	26907	CC	TT	1946943771
SNP_P4_126339_33860	NW_004515872.1	Scaffold383	33860	AA	GG	1946943773
SNP_P4_126340_40412	NW_004515872.1	Scaffold383	40412	GG	AA	1946943775
SNP_P4_126341_40565	NW_004515872.1	Scaffold383	40565	AA	TT	1946943777
SNP_P4_126342_60015	NW_004515872.1	Scaffold383	60015	CC	TT	1946943780
SNP_P4_126343_61198	NW_004515872.1	Scaffold383	61198	CC	TT	1946943782
SNP_P4_126344_77220	NW_004515872.1	Scaffold383	77220	CC	AA	1946943784
SNP_P4_126345_77250	NW_004515872.1	Scaffold383	77250	AA	GG	1946943786
SNP_P4_126346_77343	NW_004515872.1	Scaffold383	77343	TT	CC	1946943787
SNP_P4_126348_80210	NW_004515872.1	Scaffold383	80210	TT	GG	1946943789
SNP_P4_126349_80228	NW_004515872.1	Scaffold383	80228	CC	TT	1946943791
SNP_P4_126350_81317	NW_004515872.1	Scaffold383	81317	AA	GG	1946943793
SNP_P4_126353_81403	NW_004515872.1	Scaffold383	81403	TT	CC	1946943795
SNP_P4_126354_81457	NW_004515872.1	Scaffold383	81457	GG	AA	1946943797
SNP_P4_126355_81482	NW_004515872.1	Scaffold383	81482	GG	AA	1946943799
SNP_P4_126356_81485	NW_004515872.1	Scaffold383	81485	AA	GG	1946943801
SNP_P4_126357_81495	NW_004515872.1	Scaffold383	81495	CC	TT	1946943803
SNP_P4_126358_81528	NW_004515872.1	Scaffold383	81528	GG	AA	1946943805
SNP_P4_126359_81530	NW_004515872.1	Scaffold383	81530	CC	TT	1946943807
SNP_P4_126360_81646	NW_004515872.1	Scaffold383	81646	TT	GG	1946943809
SNP_P4_126361_81811	NW_004515872.1	Scaffold383	81811	GG	AA	1946943811
SNP_P4_126362_81879	NW_004515872.1	Scaffold383	81879	TT	CC	1946943813
SNP_P4_126363_87845	NW_004515872.1	Scaffold383	87845	CC	TT	1946943815

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_126365_93384	NW_004515872.1	Scaffold383	93384	GG	AA	1946943819
SNP_P4_126366_94144	NW_004515872.1	Scaffold383	94144	TT	CC	1946943821
SNP_P4_126367_118578	NW_004515872.1	Scaffold383	118578	TT	AA	1946943823
SNP_P4_126368_118579	NW_004515872.1	Scaffold383	118579	GG	TT	1946943825
SNP_P4_126369_118698	NW_004515872.1	Scaffold383	118698	TT	AA	1946943827
SNP_P4_126370_118733	NW_004515872.1	Scaffold383	118733	CC	GG	1946943829
SNP_P4_126371_118755	NW_004515872.1	Scaffold383	118755	AA	GG	1946943831
SNP_P4_126372_119116	NW_004515872.1	Scaffold383	119116	AA	GG	1946943833
SNP_P4_126373_128458	NW_004515872.1	Scaffold383	128458	GG	AA	1946943835
SNP_P4_126374_128494	NW_004515872.1	Scaffold383	128494	CC	TT	1946943837
SNP_P4_126375_128545	NW_004515872.1	Scaffold383	128545	AA	GG	1946943839
SNP_P4_126376_133731	NW_004515872.1	Scaffold383	133731	CC	AA	1946943841
SNP_P4_126377_133935	NW_004515872.1	Scaffold383	133935	GG	TT	1946943843
SNP_P4_126379_137382	NW_004515872.1	Scaffold383	137382	TT	AA	1946943845
SNP_P4_126380_137452	NW_004515872.1	Scaffold383	137452	AA	GG	1946943847
SNP_P4_126381_137468	NW_004515872.1	Scaffold383	137468	GG	TT	1946943849
SNP_P4_126382_137483	NW_004515872.1	Scaffold383	137483	CC	GG	1946943851
SNP_P4_126383_137514	NW_004515872.1	Scaffold383	137514	GG	TT	1946943853
SNP_P4_126384_175810	NW_004515872.1	Scaffold383	175810	TT	GG	1946943855
SNP_P4_126385_175851	NW_004515872.1	Scaffold383	175851	GG	AA	1946943857
SNP_P4_126386_182214	NW_004515872.1	Scaffold383	182214	AA	GG	1946943859
SNP_P4_126387_182244	NW_004515872.1	Scaffold383	182244	CC	TT	1946943861
SNP_P4_126389_195739	NW_004515872.1	Scaffold383	195739	GG	AA	1946943863
SNP_P4_126390_195796	NW_004515872.1	Scaffold383	195796	CC	TT	1946943865
SNP_P4_126391_205386	NW_004515872.1	Scaffold383	205386	AA	GG	1946943867
SNP_P4_126392_205404	NW_004515872.1	Scaffold383	205404	TT	CC	1946943869
SNP_P4_126393_205607	NW_004515872.1	Scaffold383	205607	GG	TT	1946943871
SNP_P4_126396_210001	NW_004515872.1	Scaffold383	210001	AA	GG	1946943873
SNP_P4_126397_210106	NW_004515872.1	Scaffold383	210106	CC	AA	1946943875
SNP_P4_126398_210253	NW_004515872.1	Scaffold383	210253	TT	AA	1946943877
SNP_P4_126399_210364	NW_004515872.1	Scaffold383	210364	GG	AA	1946943879
SNP_P4_126400_237204	NW_004515872.1	Scaffold383	237204	TT	CC	1946943881
SNP_P4_126401_237625	NW_004515872.1	Scaffold383	237625	TT	CC	1946943883
SNP_P4_126402_237630	NW_004515872.1	Scaffold383	237630	AA	CC	1946943885
SNP_P4_126403_248150	NW_004515872.1	Scaffold383	248150	CC	GG	1946943887
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SNP_P4_126405_2667	NW_004515873.1	Scaffold387	2667	GG	TT	1946943891
SNP_P4_126407_2764	NW_004515873.1	Scaffold387	2764	GG	TT	1946943893
SNP_P4_126408_5862	NW_004515873.1	Scaffold387	5862	AA	TT	1946943895
SNP_P4_126409_15677	NW_004515873.1	Scaffold387	15677	AA	GG	1946943897
SNP_P4_126410_15761	NW_004515873.1	Scaffold387	15761	AA	TT	1946943899

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_126413_15888	NW_004515873.1	Scaffold387	15888	GG	TT	1946943906
SNP_P4_126414_15911	NW_004515873.1	Scaffold387	15911	AA	CC	1946943908
SNP_P4_126415_15946	NW_004515873.1	Scaffold387	15946	AA	TT	1946943910
SNP_P4_126416_15990	NW_004515873.1	Scaffold387	15990	TT	CC	1946943912
SNP_P4_126417_16000	NW_004515873.1	Scaffold387	16000	TT	AA	1946943914
SNP_P4_126419_16114	NW_004515873.1	Scaffold387	16114	TT	CC	1946943916
SNP_P4_126420_16158	NW_004515873.1	Scaffold387	16158	TT	GG	1946943918
SNP_P4_126421_16197	NW_004515873.1	Scaffold387	16197	GG	TT	1946943920
SNP_P4_126422_16288	NW_004515873.1	Scaffold387	16288	CC	TT	1946943922
SNP_P4_126423_16297	NW_004515873.1	Scaffold387	16297	GG	AA	1946943924
SNP_P4_126424_16341	NW_004515873.1	Scaffold387	16341	AA	CC	1946943926
SNP_P4_126425_16368	NW_004515873.1	Scaffold387	16368	GG	AA	1946943928
SNP_P4_126426_16441	NW_004515873.1	Scaffold387	16441	TT	AA	1946943930
SNP_P4_126427_16452	NW_004515873.1	Scaffold387	16452	CC	GG	1946943932
SNP_P4_126428_16491	NW_004515873.1	Scaffold387	16491	CC	TT	1946943934
SNP_P4_126429_16494	NW_004515873.1	Scaffold387	16494	TT	CC	1946943936
SNP_P4_126430_16605	NW_004515873.1	Scaffold387	16605	GG	AA	1946943938
SNP_P4_126431_16629	NW_004515873.1	Scaffold387	16629	GG	TT	1946943940
SNP_P4_126432_16636	NW_004515873.1	Scaffold387	16636	TT	GG	1946943942
SNP_P4_126433_16668	NW_004515873.1	Scaffold387	16668	TT	CC	1946943944
SNP_P4_126434_16679	NW_004515873.1	Scaffold387	16679	AA	GG	1946943946
SNP_P4_126435_16692	NW_004515873.1	Scaffold387	16692	GG	CC	1946943948
SNP_P4_126436_16703	NW_004515873.1	Scaffold387	16703	TT	AA	1946943950
SNP_P4_126437_16760	NW_004515873.1	Scaffold387	16760	CC	TT	1946943952
SNP_P4_126438_16789	NW_004515873.1	Scaffold387	16789	GG	AA	1946943954
SNP_P4_126439_16816	NW_004515873.1	Scaffold387	16816	AA	GG	1946943956
SNP_P4_126440_16827	NW_004515873.1	Scaffold387	16827	AA	GG	1946943958
SNP_P4_126441_16842	NW_004515873.1	Scaffold387	16842	TT	CC	1946943960
SNP_P4_126442_16891	NW_004515873.1	Scaffold387	16891	CC	TT	1946943962
SNP_P4_126443_16897	NW_004515873.1	Scaffold387	16897	GG	TT	1946943964
SNP_P4_126444_17537	NW_004515873.1	Scaffold387	17537	CC	TT	1946943966
SNP_P4_126445_17560	NW_004515873.1	Scaffold387	17560	GG	AA	1946943968
SNP_P4_126446_17613	NW_004515873.1	Scaffold387	17613	CC	AA	1946943970
SNP_P4_126447_17619	NW_004515873.1	Scaffold387	17619	AA	GG	1946943972
SNP_P4_126448_17629	NW_004515873.1	Scaffold387	17629	GG	CC	1946943974
SNP_P4_126449_17718	NW_004515873.1	Scaffold387	17718	CC	TT	1946943976
SNP_P4_126450_17872	NW_004515873.1	Scaffold387	17872	AA	GG	1946943978
SNP_P4_126451_17924	NW_004515873.1	Scaffold387	17924	TT	GG	1946943980
SNP_P4_126452_18101	NW_004515873.1	Scaffold387	18101	AA	TT	1946943982
SNP_P4_126453_18107	NW_004515873.1	Scaffold387	18107	GG	AA	1946943984

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_126455_18171	NW_004515873.1	Scaffold387	18171	TT	AA	1946943988
SNP_P4_126456_18463	NW_004515873.1	Scaffold387	18463	CC	AA	1946943990
SNP_P4_126457_18486	NW_004515873.1	Scaffold387	18486	CC	TT	1946943992
SNP_P4_126458_18495	NW_004515873.1	Scaffold387	18495	AA	GG	1946943994
SNP_P4_126459_18496	NW_004515873.1	Scaffold387	18496	TT	CC	1946943996
SNP_P4_126460_18587	NW_004515873.1	Scaffold387	18587	AA	GG	1946943998
SNP_P4_126461_18606	NW_004515873.1	Scaffold387	18606	GG	AA	1946944000
SNP_P4_126462_18676	NW_004515873.1	Scaffold387	18676	AA	GG	1946944002
SNP_P4_126463_18703	NW_004515873.1	Scaffold387	18703	CC	GG	1946944004
SNP_P4_126464_18704	NW_004515873.1	Scaffold387	18704	AA	GG	1946944006
SNP_P4_126465_18732	NW_004515873.1	Scaffold387	18732	TT	CC	1946944008
SNP_P4_126466_18780	NW_004515873.1	Scaffold387	18780	CC	TT	1946944010
SNP_P4_126467_18910	NW_004515873.1	Scaffold387	18910	TT	CC	1946944012
SNP_P4_126468_18916	NW_004515873.1	Scaffold387	18916	CC	AA	1946944014
SNP_P4_126469_18943	NW_004515873.1	Scaffold387	18943	AA	CC	1946944016
SNP_P4_126470_18944	NW_004515873.1	Scaffold387	18944	AA	TT	1946944018
SNP_P4_126471_18989	NW_004515873.1	Scaffold387	18989	GG	TT	1946944020
SNP_P4_126472_19010	NW_004515873.1	Scaffold387	19010	AA	GG	1946944022
SNP_P4_126473_19020	NW_004515873.1	Scaffold387	19020	GG	AA	1946944024
SNP_P4_126474_19068	NW_004515873.1	Scaffold387	19068	CC	AA	1946944026
SNP_P4_126475_19175	NW_004515873.1	Scaffold387	19175	AA	GG	1946944028
SNP_P4_126476_19178	NW_004515873.1	Scaffold387	19178	AA	CC	1946944030
SNP_P4_126477_19247	NW_004515873.1	Scaffold387	19247	TT	AA	1946944032
SNP_P4_126478_19284	NW_004515873.1	Scaffold387	19284	GG	TT	1946944034
SNP_P4_126479_19395	NW_004515873.1	Scaffold387	19395	CC	TT	1946944036
SNP_P4_126480_19467	NW_004515873.1	Scaffold387	19467	TT	GG	1946944038
SNP_P4_126481_19545	NW_004515873.1	Scaffold387	19545	CC	AA	1946944040
SNP_P4_126482_20794	NW_004515873.1	Scaffold387	20794	TT	CC	1946944042
SNP_P4_126484_20802	NW_004515873.1	Scaffold387	20802	TT	GG	1946944044
SNP_P4_126485_22841	NW_004515873.1	Scaffold387	22841	GG	AA	1946944046
SNP_P4_126486_22907	NW_004515873.1	Scaffold387	22907	GG	TT	1946944048
SNP_P4_126487_22932	NW_004515873.1	Scaffold387	22932	AA	CC	1946944050
SNP_P4_126489_23003	NW_004515873.1	Scaffold387	23003	TT	GG	1946944052
SNP_P4_126490_23028	NW_004515873.1	Scaffold387	23028	GG	AA	1946944054
SNP_P4_126491_23087	NW_004515873.1	Scaffold387	23087	GG	AA	1946944056
SNP_P4_126493_23481	NW_004515873.1	Scaffold387	23481	GG	AA	1946944058
SNP_P4_126495_23519	NW_004515873.1	Scaffold387	23519	AA	CC	1946944060
SNP_P4_126496_23531	NW_004515873.1	Scaffold387	23531	TT	AA	1946944062
SNP_P4_126497_23538	NW_004515873.1	Scaffold387	23538	GG	AA	1946944064
SNP_P4_126499_23612	NW_004515873.1	Scaffold387	23612	TT	AA	1946944066
SNP_P4_126500_23691	NW_004515873.1	Scaffold387	23691	GG	AA	1946944068

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_126502_23792	NW_004515873.1	Scaffold387	23792	GG	AA	1946944072
SNP_P4_126503_23799	NW_004515873.1	Scaffold387	23799	CC	TT	1946944074
SNP_P4_126504_23828	NW_004515873.1	Scaffold387	23828	CC	AA	1946944076
SNP_P4_126505_23985	NW_004515873.1	Scaffold387	23985	GG	TT	1946944078
SNP_P4_126506_24028	NW_004515873.1	Scaffold387	24028	AA	TT	1946944080
SNP_P4_126507_24314	NW_004515873.1	Scaffold387	24314	CC	TT	1946944082
SNP_P4_126508_24322	NW_004515873.1	Scaffold387	24322	GG	AA	1946944084
SNP_P4_126509_24348	NW_004515873.1	Scaffold387	24348	TT	AA	1946944086
SNP_P4_126510_24824	NW_004515873.1	Scaffold387	24824	TT	CC	1946944088
SNP_P4_126511_24856	NW_004515873.1	Scaffold387	24856	GG	TT	1946944090
SNP_P4_126512_24908	NW_004515873.1	Scaffold387	24908	TT	CC	1946944092
SNP_P4_126513_24954	NW_004515873.1	Scaffold387	24954	GG	AA	1946944094
SNP_P4_126514_24960	NW_004515873.1	Scaffold387	24960	TT	CC	1946944096
SNP_P4_126515_24989	NW_004515873.1	Scaffold387	24989	TT	AA	1946944098
SNP_P4_126516_25158	NW_004515873.1	Scaffold387	25158	TT	GG	1946944100
SNP_P4_126517_59154	NW_004515873.1	Scaffold387	59154	AA	GG	1946944102
SNP_P4_126518_68603	NW_004515873.1	Scaffold387	68603	GG	AA	1946944104
SNP_P4_126519_96422	NW_004515873.1	Scaffold387	96422	GG	AA	1946944106
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SNP_P4_126521_99281	NW_004515873.1	Scaffold387	99281	TT	GG	1946944110
SNP_P4_126522_99324	NW_004515873.1	Scaffold387	99324	AA	TT	1946944112
SNP_P4_126523_99576	NW_004515873.1	Scaffold387	99576	TT	AA	1946944114
SNP_P4_126524_100082	NW_004515873.1	Scaffold387	100082	GG	AA	1946944116
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SNP_P4_126526_105233	NW_004515873.1	Scaffold387	105233	AA	TT	1946944120
SNP_P4_126527_105247	NW_004515873.1	Scaffold387	105247	AA	GG	1946944122
SNP_P4_126528_105248	NW_004515873.1	Scaffold387	105248	AA	CC	1946944125
SNP_P4_126531_119959	NW_004515873.1	Scaffold387	119959	TT	CC	1946944127
SNP_P4_126532_119963	NW_004515873.1	Scaffold387	119963	GG	CC	1946944129
SNP_P4_126533_119992	NW_004515873.1	Scaffold387	119992	TT	AA	1946944131
SNP_P4_126534_120055	NW_004515873.1	Scaffold387	120055	AA	GG	1946944133
SNP_P4_126535_120858	NW_004515873.1	Scaffold387	120858	CC	GG	1946944134
SNP_P4_126536_121166	NW_004515873.1	Scaffold387	121166	TT	CC	1946944137
SNP_P4_126537_123913	NW_004515873.1	Scaffold387	123913	GG	AA	1946944139
SNP_P4_126538_123939	NW_004515873.1	Scaffold387	123939	CC	TT	1946944141
SNP_P4_126539_123944	NW_004515873.1	Scaffold387	123944	AA	GG	1946944143
SNP_P4_126540_123969	NW_004515873.1	Scaffold387	123969	AA	GG	1946944145
SNP_P4_126541_123974	NW_004515873.1	Scaffold387	123974	GG	AA	1946944147
SNP_P4_126542_124196	NW_004515873.1	Scaffold387	124196	AA	CC	1946944149
SNP_P4_126543_154392	NW_004515873.1	Scaffold387	154392	CC	GG	1946944151
SNP_P4_126544_154418	NW_004515873.1	Scaffold387	154418	CC	TT	1946944153

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_126546_154509	NW_004515873.1	Scaffold387	154509	CC	TT	1946944157
SNP_P4_126547_154514	NW_004515873.1	Scaffold387	154514	AA	GG	1946944159
SNP_P4_126548_159554	NW_004515873.1	Scaffold387	159554	TT	CC	1946944161
SNP_P4_126549_159563	NW_004515873.1	Scaffold387	159563	TT	AA	1946944163
SNP_P4_126550_160628	NW_004515873.1	Scaffold387	160628	GG	TT	1946944165
SNP_P4_126551_160796	NW_004515873.1	Scaffold387	160796	AA	CC	1946944167
SNP_P4_126552_160836	NW_004515873.1	Scaffold387	160836	CC	TT	1946944169
SNP_P4_126553_160844	NW_004515873.1	Scaffold387	160844	TT	CC	1946944171
SNP_P4_126554_160846	NW_004515873.1	Scaffold387	160846	GG	AA	1946944173
SNP_P4_126555_160916	NW_004515873.1	Scaffold387	160916	CC	GG	1946944175
SNP_P4_126556_160947	NW_004515873.1	Scaffold387	160947	CC	TT	1946944177
SNP_P4_126557_160959	NW_004515873.1	Scaffold387	160959	AA	TT	1946944179
SNP_P4_126559_161031	NW_004515873.1	Scaffold387	161031	AA	GG	1946944181
SNP_P4_126560_161103	NW_004515873.1	Scaffold387	161103	AA	GG	1946944183
SNP_P4_126561_161136	NW_004515873.1	Scaffold387	161136	GG	AA	1946944185
SNP_P4_126562_161141	NW_004515873.1	Scaffold387	161141	AA	GG	1946944187
SNP_P4_126563_161207	NW_004515873.1	Scaffold387	161207	GG	AA	1946944189
SNP_P4_126564_161211	NW_004515873.1	Scaffold387	161211	AA	TT	1946944191
SNP_P4_126565_161283	NW_004515873.1	Scaffold387	161283	AA	GG	1946944193
SNP_P4_126566_161353	NW_004515873.1	Scaffold387	161353	AA	CC	1946944195
SNP_P4_126568_161425	NW_004515873.1	Scaffold387	161425	AA	GG	1946944197
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SNP_P4_126573_161560	NW_004515873.1	Scaffold387	161560	TT	AA	1946944205
SNP_P4_126574_2249	NW_004515874.1	Scaffold388	2249	TT	CC	1946944207
SNP_P4_126576_11509	NW_004515874.1	Scaffold388	11509	CC	TT	1946944209
SNP_P4_126577_12259	NW_004515874.1	Scaffold388	12259	CC	AA	1946944211
SNP_P4_126578_22116	NW_004515874.1	Scaffold388	22116	GG	CC	1946944213
SNP_P4_126579_23523	NW_004515874.1	Scaffold388	23523	AA	CC	1946944215
SNP_P4_126580_24650	NW_004515874.1	Scaffold388	24650	AA	TT	1946944217
SNP_P4_126581_26885	NW_004515874.1	Scaffold388	26885	AA	GG	1946944219
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SNP_P4_126583_30224	NW_004515874.1	Scaffold388	30224	CC	TT	1946944223
SNP_P4_126584_30375	NW_004515874.1	Scaffold388	30375	CC	TT	1946944225
SNP_P4_126585_30377	NW_004515874.1	Scaffold388	30377	GG	AA	1946944227
SNP_P4_126586_30398	NW_004515874.1	Scaffold388	30398	CC	TT	1946944229
SNP_P4_126587_30436	NW_004515874.1	Scaffold388	30436	AA	GG	1946944231
SNP_P4_126588_30653	NW_004515874.1	Scaffold388	30653	AA	GG	1946944233
SNP_P4_126589_30832	NW_004515874.1	Scaffold388	30832	AA	CC	1946944235
SNP_P4_126590_31879	NW_004515874.1	Scaffold388	31879	CC	TT	1946944237

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_126593_34647	NW_004515874.1	Scaffold388	34647	TT	CC	1946944243
SNP_P4_126594_35255	NW_004515874.1	Scaffold388	35255	AA	TT	1946944246
SNP_P4_126595_35278	NW_004515874.1	Scaffold388	35278	GG	AA	1946944248
SNP_P4_126596_39163	NW_004515874.1	Scaffold388	39163	CC	TT	1946944250
SNP_P4_126597_42612	NW_004515874.1	Scaffold388	42612	CC	TT	1946944252
SNP_P4_126598_42629	NW_004515874.1	Scaffold388	42629	TT	GG	1946944254
SNP_P4_126599_45606	NW_004515874.1	Scaffold388	45606	TT	AA	1946944256
SNP_P4_126600_45612	NW_004515874.1	Scaffold388	45612	GG	TT	1946944258
SNP_P4_126601_45613	NW_004515874.1	Scaffold388	45613	TT	AA	1946944260
SNP_P4_126602_45615	NW_004515874.1	Scaffold388	45615	CC	TT	1946944262
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SNP_P4_126605_47874	NW_004515874.1	Scaffold388	47874	AA	CC	1946944268
SNP_P4_126606_48330	NW_004515874.1	Scaffold388	48330	AA	TT	1946944270
SNP_P4_126607_50595	NW_004515874.1	Scaffold388	50595	AA	TT	1946944272
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SNP_P4_126610_51246	NW_004515874.1	Scaffold388	51246	GG	TT	1946944278
SNP_P4_126611_51472	NW_004515874.1	Scaffold388	51472	AA	GG	1946944280
SNP_P4_126612_51492	NW_004515874.1	Scaffold388	51492	AA	TT	1946944282
SNP_P4_126613_435	NW_004515878.1	Scaffold393	435	CC	TT	1946944284
SNP_P4_126614_6979	NW_004515879.1	Scaffold395	6979	CC	TT	1946944286
SNP_P4_126615_7289	NW_004515879.1	Scaffold395	7289	CC	GG	1946944288
SNP_P4_126616_7302	NW_004515879.1	Scaffold395	7302	AA	GG	1946944290
SNP_P4_126617_7305	NW_004515879.1	Scaffold395	7305	TT	CC	1946944292
SNP_P4_126618_7335	NW_004515879.1	Scaffold395	7335	CC	GG	1946944293
SNP_P4_126619_8113	NW_004515879.1	Scaffold395	8113	GG	AA	1946944295
SNP_P4_126620_8126	NW_004515879.1	Scaffold395	8126	TT	CC	1946944297
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SNP_P4_126622_8137	NW_004515879.1	Scaffold395	8137	GG	AA	1946944301
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SNP_P4_126624_8170	NW_004515879.1	Scaffold395	8170	GG	AA	1946944305
SNP_P4_126625_8171	NW_004515879.1	Scaffold395	8171	GG	CC	1946944307
SNP_P4_126626_8197	NW_004515879.1	Scaffold395	8197	TT	AA	1946944309
SNP_P4_126628_21644	NW_004515879.1	Scaffold395	21644	CC	TT	1946944311
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SNP_P4_126630_31259	NW_004515879.1	Scaffold395	31259	TT	AA	1946944314
SNP_P4_126631_31645	NW_004515879.1	Scaffold395	31645	TT	AA	1946944316
SNP_P4_126632_31941	NW_004515879.1	Scaffold395	31941	TT	AA	1946944318
SNP_P4_126633_32289	NW_004515879.1	Scaffold395	32289	AA	GG	1946944320

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_126635_32332	NW_004515879.1	Scaffold395	32332	TT	AA	1946944324
SNP_P4_126636_52644	NW_004515879.1	Scaffold395	52644	TT	CC	1946944326
SNP_P4_126638_93557	NW_004515879.1	Scaffold395	93557	CC	TT	1946944328
SNP_P4_126639_94684	NW_004515879.1	Scaffold395	94684	CC	TT	1946944330
SNP_P4_126640_107044	NW_004515879.1	Scaffold395	107044	GG	AA	1946944332
SNP_P4_126641_107571	NW_004515879.1	Scaffold395	107571	CC	TT	1946944334
SNP_P4_126642_107572	NW_004515879.1	Scaffold395	107572	CC	AA	1946944336
SNP_P4_126643_107587	NW_004515879.1	Scaffold395	107587	CC	GG	1946944338
SNP_P4_126644_107631	NW_004515879.1	Scaffold395	107631	CC	TT	1946944340
SNP_P4_126645_125672	NW_004515879.1	Scaffold395	125672	TT	AA	1946944342
SNP_P4_126646_125685	NW_004515879.1	Scaffold395	125685	CC	AA	1946944344
SNP_P4_126647_125702	NW_004515879.1	Scaffold395	125702	TT	CC	1946944346
SNP_P4_126648_125705	NW_004515879.1	Scaffold395	125705	AA	GG	1946944348
SNP_P4_126649_125714	NW_004515879.1	Scaffold395	125714	CC	TT	1946944350
SNP_P4_126650_125765	NW_004515879.1	Scaffold395	125765	TT	CC	1946944352
SNP_P4_126651_125767	NW_004515879.1	Scaffold395	125767	AA	GG	1946944354
SNP_P4_126652_125795	NW_004515879.1	Scaffold395	125795	AA	GG	1946944356
SNP_P4_126653_125925	NW_004515879.1	Scaffold395	125925	CC	TT	1946944358
SNP_P4_126654_125968	NW_004515879.1	Scaffold395	125968	TT	CC	1946944360
SNP_P4_126655_125970	NW_004515879.1	Scaffold395	125970	TT	CC	1946944362
SNP_P4_126656_125975	NW_004515879.1	Scaffold395	125975	TT	CC	1946944364
SNP_P4_126657_125997	NW_004515879.1	Scaffold395	125997	GG	TT	1946944366
SNP_P4_126658_126030	NW_004515879.1	Scaffold395	126030	CC	TT	1946944368
SNP_P4_126659_126138	NW_004515879.1	Scaffold395	126138	AA	GG	1946944370
SNP_P4_126660_126657	NW_004515879.1	Scaffold395	126657	TT	CC	1946944372
SNP_P4_126661_126771	NW_004515879.1	Scaffold395	126771	AA	GG	1946944374
SNP_P4_126662_126783	NW_004515879.1	Scaffold395	126783	AA	GG	1946944375
SNP_P4_126663_126831	NW_004515879.1	Scaffold395	126831	CC	TT	1946944377
SNP_P4_126664_126840	NW_004515879.1	Scaffold395	126840	TT	CC	1946944379
SNP_P4_126665_126842	NW_004515879.1	Scaffold395	126842	GG	AA	1946944381
SNP_P4_126666_127042	NW_004515879.1	Scaffold395	127042	AA	GG	1946944383
SNP_P4_126667_127053	NW_004515879.1	Scaffold395	127053	TT	CC	1946944385
SNP_P4_126668_127066	NW_004515879.1	Scaffold395	127066	GG	TT	1946944387
SNP_P4_126669_127072	NW_004515879.1	Scaffold395	127072	TT	CC	1946944389
SNP_P4_126670_127078	NW_004515879.1	Scaffold395	127078	CC	TT	1946944391
SNP_P4_126671_127091	NW_004515879.1	Scaffold395	127091	CC	TT	1946944393
SNP_P4_126672_130988	NW_004515879.1	Scaffold395	130988	TT	CC	1946944395
SNP_P4_126673_131099	NW_004515879.1	Scaffold395	131099	CC	TT	1946944397
SNP_P4_126675_131341	NW_004515879.1	Scaffold395	131341	GG	AA	1946944399
SNP_P4_126676_161465	NW_004515879.1	Scaffold395	161465	TT	AA	1946944401
SNP_P4_126677_169538	NW_004515879.1	Scaffold395	169538	CC	TT	1946944403

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_126679_178544	NW_004515879.1	Scaffold395	178544	AA	GG	1946944407
SNP_P4_126681_224692	NW_004515879.1	Scaffold395	224692	CC	AA	1946944409
SNP_P4_126684_253828	NW_004515879.1	Scaffold395	253828	AA	TT	1946944411
SNP_P4_126685_297244	NW_004515879.1	Scaffold395	297244	AA	GG	1946944413
SNP_P4_126686_327321	NW_004515879.1	Scaffold395	327321	TT	GG	1946944414
SNP_P4_126687_327340	NW_004515879.1	Scaffold395	327340	AA	GG	1946944416
SNP_P4_126688_327375	NW_004515879.1	Scaffold395	327375	CC	TT	1946944418
SNP_P4_126689_327447	NW_004515879.1	Scaffold395	327447	TT	CC	1946944420
SNP_P4_126690_327549	NW_004515879.1	Scaffold395	327549	AA	GG	1946944422
SNP_P4_126691_328024	NW_004515879.1	Scaffold395	328024	AA	GG	1946944424
SNP_P4_126692_328091	NW_004515879.1	Scaffold395	328091	TT	CC	1946944426
SNP_P4_126693_328144	NW_004515879.1	Scaffold395	328144	CC	TT	1946944428
SNP_P4_126694_328156	NW_004515879.1	Scaffold395	328156	TT	CC	1946944430
SNP_P4_126695_328190	NW_004515879.1	Scaffold395	328190	TT	CC	1946944432
SNP_P4_126696_328411	NW_004515879.1	Scaffold395	328411	AA	GG	1946944434
SNP_P4_126697_328534	NW_004515879.1	Scaffold395	328534	AA	GG	1946944436
SNP_P4_126698_331762	NW_004515879.1	Scaffold395	331762	AA	GG	1946944438
SNP_P4_126699_331786	NW_004515879.1	Scaffold395	331786	AA	CC	1946944440
SNP_P4_126701_2788	NW_004515880.1	Scaffold396	2788	GG	TT	1946944442
SNP_P4_126702_6186	NW_004515880.1	Scaffold396	6186	GG	AA	1946944444
SNP_P4_126703_6213	NW_004515880.1	Scaffold396	6213	CC	TT	1946944446
SNP_P4_126704_6234	NW_004515880.1	Scaffold396	6234	AA	GG	1946944448
SNP_P4_126705_6530	NW_004515880.1	Scaffold396	6530	AA	TT	1946944450
SNP_P4_126706_42290	NW_004515880.1	Scaffold396	42290	CC	TT	1946944452
SNP_P4_126707_42299	NW_004515880.1	Scaffold396	42299	TT	CC	1946944454
SNP_P4_126708_47842	NW_004515880.1	Scaffold396	47842	GG	CC	1946944456
SNP_P4_126710_130677	NW_004515880.1	Scaffold396	130677	TT	CC	1946944457
SNP_P4_126711_144210	NW_004515880.1	Scaffold396	144210	TT	CC	1946944459
SNP_P4_126712_165849	NW_004515880.1	Scaffold396	165849	AA	TT	1946944461
SNP_P4_126713_173650	NW_004515880.1	Scaffold396	173650	GG	AA	1946944463
SNP_P4_126714_227008	NW_004515880.1	Scaffold396	227008	TT	CC	1946944465
SNP_P4_126715_228548	NW_004515880.1	Scaffold396	228548	GG	TT	1946944467
SNP_P4_126716_275414	NW_004515880.1	Scaffold396	275414	AA	TT	1946944469
SNP_P4_126717_275466	NW_004515880.1	Scaffold396	275466	TT	AA	1946944471
SNP_P4_126718_275468	NW_004515880.1	Scaffold396	275468	GG	AA	1946944473
SNP_P4_126719_275530	NW_004515880.1	Scaffold396	275530	GG	TT	1946944475
SNP_P4_126720_275545	NW_004515880.1	Scaffold396	275545	AA	CC	1946944477
SNP_P4_126721_275569	NW_004515880.1	Scaffold396	275569	GG	AA	1946944479
SNP_P4_126723_275825	NW_004515880.1	Scaffold396	275825	TT	GG	1946944480
SNP_P4_126724_275853	NW_004515880.1	Scaffold396	275853	CC	TT	1946944482
SNP_P4_126725_279066	NW_004515880.1	Scaffold396	279066	CC	GG	1946944484

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_126727_330776	NW_004515880.1	Scaffold396	330776	CC	TT	1946944488
SNP_P4_126730_376944	NW_004515880.1	Scaffold396	376944	GG	CC	1946944490
SNP_P4_126731_377005	NW_004515880.1	Scaffold396	377005	AA	GG	1946944492
SNP_P4_126732_377297	NW_004515880.1	Scaffold396	377297	TT	CC	1946944494
SNP_P4_126733_377339	NW_004515880.1	Scaffold396	377339	AA	GG	1946944496
SNP_P4_126734_389125	NW_004515880.1	Scaffold396	389125	TT	CC	1946944498
SNP_P4_126735_408540	NW_004515880.1	Scaffold396	408540	TT	CC	1946944500
SNP_P4_126736_409631	NW_004515880.1	Scaffold396	409631	TT	AA	1946944501
SNP_P4_126737_409808	NW_004515880.1	Scaffold396	409808	TT	AA	1946944503
SNP_P4_126738_421741	NW_004515880.1	Scaffold396	421741	TT	AA	1946944505
SNP_P4_126739_421799	NW_004515880.1	Scaffold396	421799	GG	TT	1946944507
SNP_P4_126740_422647	NW_004515880.1	Scaffold396	422647	GG	AA	1946944509
SNP_P4_126741_422656	NW_004515880.1	Scaffold396	422656	AA	GG	1946944511
SNP_P4_126743_425408	NW_004515880.1	Scaffold396	425408	TT	AA	1946944513
SNP_P4_126744_440135	NW_004515880.1	Scaffold396	440135	GG	TT	1946944515
SNP_P4_126745_440366	NW_004515880.1	Scaffold396	440366	TT	CC	1946944517
SNP_P4_126746_448961	NW_004515880.1	Scaffold396	448961	TT	CC	1946944519
SNP_P4_126747_467510	NW_004515880.1	Scaffold396	467510	AA	GG	1946944521
SNP_P4_126748_467514	NW_004515880.1	Scaffold396	467514	GG	TT	1946944523
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SNP_P4_126750_468676	NW_004515880.1	Scaffold396	468676	CC	TT	1946944527
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SNP_P4_126752_477326	NW_004515880.1	Scaffold396	477326	CC	AA	1946944531
SNP_P4_126753_477363	NW_004515880.1	Scaffold396	477363	AA	GG	1946944533
SNP_P4_126754_477504	NW_004515880.1	Scaffold396	477504	TT	CC	1946944535
SNP_P4_126755_477564	NW_004515880.1	Scaffold396	477564	GG	CC	1946944537
SNP_P4_126756_477585	NW_004515880.1	Scaffold396	477585	TT	GG	1946944539
SNP_P4_126757_477628	NW_004515880.1	Scaffold396	477628	AA	GG	1946944541
SNP_P4_126758_477879	NW_004515880.1	Scaffold396	477879	GG	AA	1946944543
SNP_P4_126760_520008	NW_004515880.1	Scaffold396	520008	CC	TT	1946944545
SNP_P4_126761_520378	NW_004515880.1	Scaffold396	520378	TT	CC	1946944547
SNP_P4_126762_520413	NW_004515880.1	Scaffold396	520413	TT	GG	1946944549
SNP_P4_126763_520785	NW_004515880.1	Scaffold396	520785	CC	AA	1946944551
SNP_P4_126764_522948	NW_004515880.1	Scaffold396	522948	CC	TT	1946944553
SNP_P4_126765_524443	NW_004515880.1	Scaffold396	524443	GG	AA	1946944555
SNP_P4_126766_525239	NW_004515880.1	Scaffold396	525239	TT	CC	1946944557
SNP_P4_126767_525244	NW_004515880.1	Scaffold396	525244	CC	TT	1946944559
SNP_P4_126768_525265	NW_004515880.1	Scaffold396	525265	GG	TT	1946944561
SNP_P4_126769_525270	NW_004515880.1	Scaffold396	525270	CC	TT	1946944563
SNP_P4_126770_525550	NW_004515880.1	Scaffold396	525550	AA	GG	1946944564
SNP_P4_126771_525563	NW_004515880.1	Scaffold396	525563	TT	CC	1946944566

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_126773_525641	NW_004515880.1	Scaffold396	525641	AA	GG	1946944570
SNP_P4_126774_525662	NW_004515880.1	Scaffold396	525662	CC	TT	1946944572
SNP_P4_126775_528994	NW_004515880.1	Scaffold396	528994	AA	GG	1946944574
SNP_P4_126776_529186	NW_004515880.1	Scaffold396	529186	CC	GG	1946944576
SNP_P4_126777_529197	NW_004515880.1	Scaffold396	529197	CC	TT	1946944578
SNP_P4_126778_529354	NW_004515880.1	Scaffold396	529354	TT	GG	1946944580
SNP_P4_126779_529363	NW_004515880.1	Scaffold396	529363	AA	GG	1946944582
SNP_P4_126780_529378	NW_004515880.1	Scaffold396	529378	CC	GG	1946944584
SNP_P4_126781_529453	NW_004515880.1	Scaffold396	529453	AA	CC	1946944586
SNP_P4_126782_529454	NW_004515880.1	Scaffold396	529454	TT	AA	1946944588
SNP_P4_126783_529602	NW_004515880.1	Scaffold396	529602	GG	AA	1946944590
SNP_P4_126784_555966	NW_004515880.1	Scaffold396	555966	CC	AA	1946944592
SNP_P4_126785_556115	NW_004515880.1	Scaffold396	556115	CC	TT	1946944594
SNP_P4_126786_556214	NW_004515880.1	Scaffold396	556214	CC	GG	1946944596
SNP_P4_126787_556343	NW_004515880.1	Scaffold396	556343	AA	TT	1946944597
SNP_P4_126788_577392	NW_004515880.1	Scaffold396	577392	TT	GG	1946944599
SNP_P4_126789_577476	NW_004515880.1	Scaffold396	577476	AA	GG	1946944601
SNP_P4_126790_577481	NW_004515880.1	Scaffold396	577481	AA	CC	1946944603
SNP_P4_126791_577493	NW_004515880.1	Scaffold396	577493	AA	CC	1946944605
SNP_P4_126792_577497	NW_004515880.1	Scaffold396	577497	AA	TT	1946944607
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SNP_P4_126798_579227	NW_004515880.1	Scaffold396	579227	TT	CC	1946944615
SNP_P4_126799_581893	NW_004515880.1	Scaffold396	581893	AA	GG	1946944617
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SNP_P4_126803_593190	NW_004515880.1	Scaffold396	593190	TT	AA	1946944624
SNP_P4_126804_593209	NW_004515880.1	Scaffold396	593209	AA	CC	1946944626
SNP_P4_126805_593216	NW_004515880.1	Scaffold396	593216	TT	AA	1946944628
SNP_P4_126806_593454	NW_004515880.1	Scaffold396	593454	TT	AA	1946944630
SNP_P4_126807_598671	NW_004515880.1	Scaffold396	598671	TT	GG	1946944632
SNP_P4_126808_598725	NW_004515880.1	Scaffold396	598725	CC	TT	1946944634
SNP_P4_126809_602021	NW_004515880.1	Scaffold396	602021	CC	TT	1946944636
SNP_P4_126810_5172	NW_004515881.1	Scaffold397	5172	AA	GG	1946944638
SNP_P4_126811_6800	NW_004515881.1	Scaffold397	6800	GG	AA	1946944640
SNP_P4_126812_8111	NW_004515881.1	Scaffold397	8111	TT	AA	1946944642
SNP_P4_126813_20082	NW_004515881.1	Scaffold397	20082	TT	GG	1946944644
SNP_P4_126814_22789	NW_004515881.1	Scaffold397	22789	GG	CC	1946944646
SNP_P4_126817_23771	NW_004515881.1	Scaffold397	23771	TT	CC	1946944648

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_126819_54854	NW_004515881.1	Scaffold397	54854	AA	CC	1946944650
SNP_P4_126820_87186	NW_004515881.1	Scaffold397	87186	AA	TT	1946944652
SNP_P4_126822_96180	NW_004515881.1	Scaffold397	96180	GG	TT	1946944654
SNP_P4_126823_98198	NW_004515881.1	Scaffold397	98198	GG	AA	1946944656
SNP_P4_126824_98243	NW_004515881.1	Scaffold397	98243	TT	AA	1946944658
SNP_P4_126825_98248	NW_004515881.1	Scaffold397	98248	TT	CC	1946944660
SNP_P4_126826_102562	NW_004515881.1	Scaffold397	102562	TT	GG	1946944662
SNP_P4_126827_102857	NW_004515881.1	Scaffold397	102857	GG	TT	1946944664
SNP_P4_126828_102862	NW_004515881.1	Scaffold397	102862	TT	GG	1946944666
SNP_P4_126829_102867	NW_004515881.1	Scaffold397	102867	CC	TT	1946944668
SNP_P4_126830_102966	NW_004515881.1	Scaffold397	102966	CC	TT	1946944670
SNP_P4_126831_130381	NW_004515881.1	Scaffold397	130381	AA	TT	1946944671
SNP_P4_126832_131112	NW_004515881.1	Scaffold397	131112	TT	CC	1946944673
SNP_P4_126833_131113	NW_004515881.1	Scaffold397	131113	TT	CC	1946944675
SNP_P4_126834_131144	NW_004515881.1	Scaffold397	131144	CC	TT	1946944677
SNP_P4_126835_131201	NW_004515881.1	Scaffold397	131201	CC	GG	1946944679
SNP_P4_126836_143429	NW_004515881.1	Scaffold397	143429	CC	TT	1946944681
SNP_P4_126837_143448	NW_004515881.1	Scaffold397	143448	GG	TT	1946944683
SNP_P4_126838_143763	NW_004515881.1	Scaffold397	143763	AA	GG	1946944685
SNP_P4_126839_143776	NW_004515881.1	Scaffold397	143776	TT	CC	1946944686
SNP_P4_126840_143803	NW_004515881.1	Scaffold397	143803	AA	GG	1946944688
SNP_P4_126841_143806	NW_004515881.1	Scaffold397	143806	TT	CC	1946944690
SNP_P4_126842_143815	NW_004515881.1	Scaffold397	143815	AA	GG	1946944692
SNP_P4_126843_143831	NW_004515881.1	Scaffold397	143831	AA	GG	1946944694
SNP_P4_126844_143848	NW_004515881.1	Scaffold397	143848	GG	AA	1946944696
SNP_P4_126845_143863	NW_004515881.1	Scaffold397	143863	CC	TT	1946944698
SNP_P4_126846_143881	NW_004515881.1	Scaffold397	143881	AA	GG	1946944700
SNP_P4_126847_143911	NW_004515881.1	Scaffold397	143911	TT	CC	1946944702
SNP_P4_126848_143913	NW_004515881.1	Scaffold397	143913	GG	TT	1946944704
SNP_P4_126849_143914	NW_004515881.1	Scaffold397	143914	CC	TT	1946944706
SNP_P4_126850_143932	NW_004515881.1	Scaffold397	143932	CC	TT	1946944707
SNP_P4_126851_143935	NW_004515881.1	Scaffold397	143935	TT	CC	1946944709
SNP_P4_126852_143939	NW_004515881.1	Scaffold397	143939	AA	GG	1946944711
SNP_P4_126853_143947	NW_004515881.1	Scaffold397	143947	TT	CC	1946944713
SNP_P4_126854_143968	NW_004515881.1	Scaffold397	143968	TT	CC	1946944715
SNP_P4_126855_143983	NW_004515881.1	Scaffold397	143983	AA	CC	1946944717
SNP_P4_126856_144790	NW_004515881.1	Scaffold397	144790	CC	TT	1946944719
SNP_P4_126858_146245	NW_004515881.1	Scaffold397	146245	TT	AA	1946944721
SNP_P4_126859_146259	NW_004515881.1	Scaffold397	146259	TT	AA	1946944723
SNP_P4_126861_154468	NW_004515881.1	Scaffold397	154468	CC	TT	1946944725
SNP_P4_126862_160270	NW_004515881.1	Scaffold397	160270	CC	AA	1946944727
SNP_P4_126863_167197	NW_004515881.1	Scaffold397	167197	AA	CC	1946944729

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_126865_185107	NW_004515881.1	Scaffold397	185107	AA	GG	1946944731
SNP_P4_126866_185133	NW_004515881.1	Scaffold397	185133	AA	TT	1946944733
SNP_P4_126867_185153	NW_004515881.1	Scaffold397	185153	AA	GG	1946944735
SNP_P4_126868_185160	NW_004515881.1	Scaffold397	185160	CC	TT	1946944737
SNP_P4_126869_185373	NW_004515881.1	Scaffold397	185373	TT	CC	1946944739
SNP_P4_126870_185414	NW_004515881.1	Scaffold397	185414	CC	AA	1946944741
SNP_P4_126871_185474	NW_004515881.1	Scaffold397	185474	TT	CC	1946944742
SNP_P4_126872_186186	NW_004515881.1	Scaffold397	186186	TT	GG	1946944744
SNP_P4_126873_186263	NW_004515881.1	Scaffold397	186263	GG	AA	1946944746
SNP_P4_126874_186408	NW_004515881.1	Scaffold397	186408	TT	GG	1946944748
SNP_P4_126875_191095	NW_004515881.1	Scaffold397	191095	AA	CC	1946944750
SNP_P4_126877_194819	NW_004515881.1	Scaffold397	194819	GG	AA	1946944752
SNP_P4_126878_195205	NW_004515881.1	Scaffold397	195205	TT	AA	1946944754
SNP_P4_126879_195269	NW_004515881.1	Scaffold397	195269	CC	TT	1946944756
SNP_P4_126880_208118	NW_004515881.1	Scaffold397	208118	CC	GG	1946944758
SNP_P4_126881_221988	NW_004515881.1	Scaffold397	221988	TT	CC	1946944760
SNP_P4_126882_260645	NW_004515881.1	Scaffold397	260645	TT	CC	1946944762
SNP_P4_126883_261735	NW_004515881.1	Scaffold397	261735	TT	AA	1946944764
SNP_P4_126884_331264	NW_004515881.1	Scaffold397	331264	AA	GG	1946944766
SNP_P4_126885_331289	NW_004515881.1	Scaffold397	331289	CC	TT	1946944768
SNP_P4_126886_331309	NW_004515881.1	Scaffold397	331309	AA	CC	1946944770
SNP_P4_126887_331310	NW_004515881.1	Scaffold397	331310	AA	CC	1946944772
SNP_P4_126888_331586	NW_004515881.1	Scaffold397	331586	CC	TT	1946944774
SNP_P4_126889_331596	NW_004515881.1	Scaffold397	331596	CC	TT	1946944776
SNP_P4_126890_331604	NW_004515881.1	Scaffold397	331604	AA	TT	1946944778
SNP_P4_126891_331612	NW_004515881.1	Scaffold397	331612	TT	AA	1946944780
SNP_P4_126892_335037	NW_004515881.1	Scaffold397	335037	AA	CC	1946944782
SNP_P4_126893_343394	NW_004515881.1	Scaffold397	343394	CC	GG	1946944784
SNP_P4_126894_348472	NW_004515881.1	Scaffold397	348472	CC	TT	1946944786
SNP_P4_126895_348483	NW_004515881.1	Scaffold397	348483	GG	AA	1946944788
SNP_P4_126896_350791	NW_004515881.1	Scaffold397	350791	CC	TT	1946944790
SNP_P4_126897_350861	NW_004515881.1	Scaffold397	350861	TT	CC	1946944792
SNP_P4_126899_365928	NW_004515881.1	Scaffold397	365928	AA	GG	1946944794
SNP_P4_126900_373523	NW_004515881.1	Scaffold397	373523	CC	TT	1946944796
SNP_P4_126901_389081	NW_004515881.1	Scaffold397	389081	GG	AA	1946944798
SNP_P4_126902_389085	NW_004515881.1	Scaffold397	389085	TT	CC	1946944800
SNP_P4_126903_389121	NW_004515881.1	Scaffold397	389121	GG	CC	1946944802
SNP_P4_126904_389492	NW_004515881.1	Scaffold397	389492	TT	CC	1946944804
SNP_P4_126905_396555	NW_004515881.1	Scaffold397	396555	TT	GG	1946944806
SNP_P4_126907_422492	NW_004515881.1	Scaffold397	422492	CC	TT	1946944808
SNP_P4_126908_436067	NW_004515881.1	Scaffold397	436067	AA	TT	1946944809
SNP_P4_126909_436101	NW_004515881.1	Scaffold397	436101	CC	AA	1946944811

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_126911_436230	NW_004515881.1	Scaffold397	436230	TT	CC	1946944815
SNP_P4_126912_436241	NW_004515881.1	Scaffold397	436241	GG	CC	1946944817
SNP_P4_126913_436260	NW_004515881.1	Scaffold397	436260	TT	AA	1946944819
SNP_P4_126914_436616	NW_004515881.1	Scaffold397	436616	CC	TT	1946944821
SNP_P4_126915_440931	NW_004515881.1	Scaffold397	440931	TT	CC	1946944823
SNP_P4_126916_440937	NW_004515881.1	Scaffold397	440937	CC	TT	1946944826
SNP_P4_126917_441441	NW_004515881.1	Scaffold397	441441	AA	GG	1946944828
SNP_P4_126918_446429	NW_004515881.1	Scaffold397	446429	TT	GG	1946944830
SNP_P4_126919_453773	NW_004515881.1	Scaffold397	453773	GG	AA	1946944832
SNP_P4_126920_455891	NW_004515881.1	Scaffold397	455891	AA	TT	1946944833
SNP_P4_126922_3043	NW_004515882.1	Scaffold398	3043	TT	AA	1946944835
SNP_P4_126923_3132	NW_004515882.1	Scaffold398	3132	AA	GG	1946944838
SNP_P4_126924_12238	NW_004515882.1	Scaffold398	12238	AA	TT	1946944840
SNP_P4_126925_13106	NW_004515882.1	Scaffold398	13106	GG	AA	1946944842
SNP_P4_126927_18073	NW_004515882.1	Scaffold398	18073	CC	AA	1946944844
SNP_P4_126928_19130	NW_004515882.1	Scaffold398	19130	AA	GG	1946944846
SNP_P4_126929_21248	NW_004515882.1	Scaffold398	21248	AA	GG	1946944847
SNP_P4_126930_21254	NW_004515882.1	Scaffold398	21254	AA	GG	1946944850
SNP_P4_126931_21265	NW_004515882.1	Scaffold398	21265	GG	AA	1946944852
SNP_P4_126932_21266	NW_004515882.1	Scaffold398	21266	CC	TT	1946944854
SNP_P4_126933_21281	NW_004515882.1	Scaffold398	21281	GG	AA	1946944855
SNP_P4_126934_21287	NW_004515882.1	Scaffold398	21287	CC	TT	1946944857
SNP_P4_126935_21293	NW_004515882.1	Scaffold398	21293	TT	CC	1946944859
SNP_P4_126936_21301	NW_004515882.1	Scaffold398	21301	GG	CC	1946944861
SNP_P4_126937_21314	NW_004515882.1	Scaffold398	21314	AA	CC	1946944863
SNP_P4_126938_21323	NW_004515882.1	Scaffold398	21323	AA	CC	1946944865
SNP_P4_126939_21374	NW_004515882.1	Scaffold398	21374	GG	AA	1946944867
SNP_P4_126940_21380	NW_004515882.1	Scaffold398	21380	AA	GG	1946944869
SNP_P4_126941_21396	NW_004515882.1	Scaffold398	21396	CC	TT	1946944871
SNP_P4_126942_21449	NW_004515882.1	Scaffold398	21449	CC	TT	1946944873
SNP_P4_126943_21452	NW_004515882.1	Scaffold398	21452	CC	TT	1946944875
SNP_P4_126944_21458	NW_004515882.1	Scaffold398	21458	AA	TT	1946944877
SNP_P4_126945_21464	NW_004515882.1	Scaffold398	21464	AA	CC	1946944879
SNP_P4_126946_21465	NW_004515882.1	Scaffold398	21465	GG	TT	1946944881
SNP_P4_126947_21470	NW_004515882.1	Scaffold398	21470	CC	AA	1946944883
SNP_P4_126948_21762	NW_004515882.1	Scaffold398	21762	CC	TT	1946944884
SNP_P4_126951_25277	NW_004515882.1	Scaffold398	25277	TT	GG	1946944886
SNP_P4_126953_25704	NW_004515882.1	Scaffold398	25704	CC	TT	1946944888
SNP_P4_126955_28653	NW_004515882.1	Scaffold398	28653	AA	TT	1946944890
SNP_P4_126956_33266	NW_004515882.1	Scaffold398	33266	AA	GG	1946944892
SNP_P4_126957_33381	NW_004515882.1	Scaffold398	33381	GG	AA	1946944894

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_126959_33497	NW_004515882.1	Scaffold398	33497	AA	GG	1946944898
SNP_P4_126961_33534	NW_004515882.1	Scaffold398	33534	TT	GG	1946944900
SNP_P4_126962_33553	NW_004515882.1	Scaffold398	33553	CC	AA	1946944902
SNP_P4_126963_33560	NW_004515882.1	Scaffold398	33560	CC	TT	1946944904
SNP_P4_126964_33595	NW_004515882.1	Scaffold398	33595	AA	TT	1946944906
SNP_P4_126965_33695	NW_004515882.1	Scaffold398	33695	TT	CC	1946944908
SNP_P4_126968_33943	NW_004515882.1	Scaffold398	33943	TT	AA	1946944910
SNP_P4_126969_34039	NW_004515882.1	Scaffold398	34039	GG	TT	1946944911
SNP_P4_126970_34102	NW_004515882.1	Scaffold398	34102	GG	AA	1946944913
SNP_P4_126971_36239	NW_004515882.1	Scaffold398	36239	TT	AA	1946944915
SNP_P4_126972_37220	NW_004515882.1	Scaffold398	37220	AA	CC	1946944917
SNP_P4_126973_37415	NW_004515882.1	Scaffold398	37415	AA	CC	1946944919
SNP_P4_126974_37649	NW_004515882.1	Scaffold398	37649	TT	CC	1946944921
SNP_P4_126976_45099	NW_004515882.1	Scaffold398	45099	GG	AA	1946944923
SNP_P4_126977_47356	NW_004515882.1	Scaffold398	47356	GG	AA	1946944925
SNP_P4_126979_50481	NW_004515882.1	Scaffold398	50481	CC	TT	1946944927
SNP_P4_126980_51114	NW_004515882.1	Scaffold398	51114	GG	AA	1946944929
SNP_P4_126982_52328	NW_004515882.1	Scaffold398	52328	AA	GG	1946944931
SNP_P4_126983_56608	NW_004515882.1	Scaffold398	56608	AA	GG	1946944933
SNP_P4_126984_62751	NW_004515882.1	Scaffold398	62751	AA	GG	1946944935
SNP_P4_126985_62796	NW_004515882.1	Scaffold398	62796	TT	CC	1946944937
SNP_P4_126986_63477	NW_004515882.1	Scaffold398	63477	TT	GG	1946944939
SNP_P4_126987_68140	NW_004515882.1	Scaffold398	68140	AA	GG	1946944941
SNP_P4_126988_68422	NW_004515882.1	Scaffold398	68422	AA	GG	1946944943
SNP_P4_126989_68701	NW_004515882.1	Scaffold398	68701	CC	AA	1946944945
SNP_P4_126990_68706	NW_004515882.1	Scaffold398	68706	TT	CC	1946944947
SNP_P4_126991_68709	NW_004515882.1	Scaffold398	68709	TT	GG	1946944949
SNP_P4_126992_68712	NW_004515882.1	Scaffold398	68712	TT	CC	1946944951
SNP_P4_126993_69694	NW_004515882.1	Scaffold398	69694	GG	TT	1946944952
SNP_P4_126994_69697	NW_004515882.1	Scaffold398	69697	AA	GG	1946944954
SNP_P4_126996_69807	NW_004515882.1	Scaffold398	69807	AA	TT	1946944956
SNP_P4_126997_70797	NW_004515882.1	Scaffold398	70797	CC	TT	1946944958
SNP_P4_126998_71199	NW_004515882.1	Scaffold398	71199	TT	AA	1946944960
SNP_P4_126999_73980	NW_004515882.1	Scaffold398	73980	GG	AA	1946944962
SNP_P4_127000_74471	NW_004515882.1	Scaffold398	74471	TT	CC	1946944964
SNP_P4_127002_77285	NW_004515882.1	Scaffold398	77285	CC	TT	1946944966
SNP_P4_127003_77429	NW_004515882.1	Scaffold398	77429	CC	TT	1946944968
SNP_P4_127004_79380	NW_004515882.1	Scaffold398	79380	TT	CC	1946944970
SNP_P4_127005_89626	NW_004515882.1	Scaffold398	89626	AA	GG	1946944972
SNP_P4_127006_91458	NW_004515882.1	Scaffold398	91458	GG	AA	1946944974
SNP_P4_127007_92505	NW_004515882.1	Scaffold398	92505	GG	AA	1946944976

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_127010_110526	NW_004515882.1	Scaffold398	110526	AA	TT	1946944980
SNP_P4_127011_110603	NW_004515882.1	Scaffold398	110603	GG	AA	1946944982
SNP_P4_127012_112576	NW_004515882.1	Scaffold398	112576	CC	TT	1946944984
SNP_P4_127013_115457	NW_004515882.1	Scaffold398	115457	CC	TT	1946944986
SNP_P4_127014_115476	NW_004515882.1	Scaffold398	115476	CC	AA	1946944988
SNP_P4_127016_116836	NW_004515882.1	Scaffold398	116836	AA	CC	1946944990
SNP_P4_127017_117758	NW_004515882.1	Scaffold398	117758	GG	AA	1946944992
SNP_P4_127018_117775	NW_004515882.1	Scaffold398	117775	AA	CC	1946944994
SNP_P4_127019_121579	NW_004515882.1	Scaffold398	121579	GG	CC	1946944996
SNP_P4_127020_123921	NW_004515882.1	Scaffold398	123921	TT	CC	1946944998
SNP_P4_127021_124937	NW_004515882.1	Scaffold398	124937	CC	TT	1946945000
SNP_P4_127022_129429	NW_004515882.1	Scaffold398	129429	GG	TT	1946945002
SNP_P4_127023_131497	NW_004515882.1	Scaffold398	131497	GG	AA	1946945004
SNP_P4_127024_131706	NW_004515882.1	Scaffold398	131706	GG	AA	1946945006
SNP_P4_127025_132592	NW_004515882.1	Scaffold398	132592	AA	GG	1946945008
SNP_P4_127026_132607	NW_004515882.1	Scaffold398	132607	TT	CC	1946945010
SNP_P4_127027_133040	NW_004515882.1	Scaffold398	133040	AA	TT	1946945012
SNP_P4_127028_144281	NW_004515882.1	Scaffold398	144281	AA	GG	1946945014
SNP_P4_127029_148409	NW_004515882.1	Scaffold398	148409	CC	TT	1946945016
SNP_P4_127030_154062	NW_004515882.1	Scaffold398	154062	GG	AA	1946945018
SNP_P4_127031_159868	NW_004515882.1	Scaffold398	159868	TT	AA	1946945020
SNP_P4_127032_162394	NW_004515882.1	Scaffold398	162394	AA	GG	1946945022
SNP_P4_127033_163135	NW_004515882.1	Scaffold398	163135	GG	AA	1946945025
SNP_P4_127034_171836	NW_004515882.1	Scaffold398	171836	TT	CC	1946945027
SNP_P4_127035_174263	NW_004515882.1	Scaffold398	174263	TT	AA	1946945029
SNP_P4_127037_182144	NW_004515882.1	Scaffold398	182144	GG	CC	1946945031
SNP_P4_127038_184311	NW_004515882.1	Scaffold398	184311	AA	TT	1946945033
SNP_P4_127039_188660	NW_004515882.1	Scaffold398	188660	GG	AA	1946945035
SNP_P4_127040_192900	NW_004515882.1	Scaffold398	192900	GG	AA	1946945037
SNP_P4_127041_195088	NW_004515882.1	Scaffold398	195088	TT	CC	1946945039
SNP_P4_127042_201094	NW_004515882.1	Scaffold398	201094	GG	CC	1946945041
SNP_P4_127043_202231	NW_004515882.1	Scaffold398	202231	AA	GG	1946945043
SNP_P4_127045_204025	NW_004515882.1	Scaffold398	204025	AA	GG	1946945045
SNP_P4_127046_204026	NW_004515882.1	Scaffold398	204026	AA	CC	1946945047
SNP_P4_127048_206408	NW_004515882.1	Scaffold398	206408	AA	CC	1946945049
SNP_P4_127049_206571	NW_004515882.1	Scaffold398	206571	CC	TT	1946945051
SNP_P4_127050_207781	NW_004515882.1	Scaffold398	207781	TT	AA	1946945053
SNP_P4_127051_207786	NW_004515882.1	Scaffold398	207786	GG	AA	1946945055
SNP_P4_127052_208423	NW_004515882.1	Scaffold398	208423	AA	GG	1946945057
SNP_P4_127053_208456	NW_004515882.1	Scaffold398	208456	AA	TT	1946945059
SNP_P4_127054_208691	NW_004515882.1	Scaffold398	208691	TT	CC	1946945061

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_127055_208746	NW_004515882.1	Scaffold398	208746	AA	GG	1946945063
SNP_P4_127056_209532	NW_004515882.1	Scaffold398	209532	CC	AA	1946945065
SNP_P4_127057_209548	NW_004515882.1	Scaffold398	209548	AA	CC	1946945067
SNP_P4_127058_209852	NW_004515882.1	Scaffold398	209852	AA	CC	1946945069
SNP_P4_127059_211055	NW_004515882.1	Scaffold398	211055	CC	TT	1946945071
SNP_P4_127060_211934	NW_004515882.1	Scaffold398	211934	TT	CC	1946945073
SNP_P4_127061_211965	NW_004515882.1	Scaffold398	211965	CC	TT	1946945075
SNP_P4_127062_213188	NW_004515882.1	Scaffold398	213188	CC	TT	1946945077
SNP_P4_127063_213193	NW_004515882.1	Scaffold398	213193	TT	AA	1946945079
SNP_P4_127064_214613	NW_004515882.1	Scaffold398	214613	AA	GG	1946945081
SNP_P4_127065_214629	NW_004515882.1	Scaffold398	214629	GG	AA	1946945083
SNP_P4_127066_215214	NW_004515882.1	Scaffold398	215214	TT	GG	1946945085
SNP_P4_127067_215821	NW_004515882.1	Scaffold398	215821	CC	TT	1946945087
SNP_P4_127068_216158	NW_004515882.1	Scaffold398	216158	GG	TT	1946945089
SNP_P4_127069_216455	NW_004515882.1	Scaffold398	216455	GG	AA	1946945091
SNP_P4_127071_216683	NW_004515882.1	Scaffold398	216683	GG	AA	1946945093
SNP_P4_127072_216688	NW_004515882.1	Scaffold398	216688	AA	CC	1946945095
SNP_P4_127073_216768	NW_004515882.1	Scaffold398	216768	AA	TT	1946945097
SNP_P4_127074_247663	NW_004515882.1	Scaffold398	247663	AA	GG	1946945099
SNP_P4_127075_247664	NW_004515882.1	Scaffold398	247664	GG	AA	1946945101
SNP_P4_127076_247850	NW_004515882.1	Scaffold398	247850	AA	TT	1946945104
SNP_P4_127077_247868	NW_004515882.1	Scaffold398	247868	TT	AA	1946945106
SNP_P4_127078_247874	NW_004515882.1	Scaffold398	247874	AA	GG	1946945108
SNP_P4_127079_248243	NW_004515882.1	Scaffold398	248243	AA	GG	1946945110
SNP_P4_127081_248297	NW_004515882.1	Scaffold398	248297	GG	AA	1946945112
SNP_P4_127082_248311	NW_004515882.1	Scaffold398	248311	TT	AA	1946945114
SNP_P4_127084_248615	NW_004515882.1	Scaffold398	248615	GG	AA	1946945116
SNP_P4_127085_252749	NW_004515882.1	Scaffold398	252749	AA	GG	1946945118
SNP_P4_127086_261556	NW_004515882.1	Scaffold398	261556	AA	CC	1946945120
SNP_P4_127087_266593	NW_004515882.1	Scaffold398	266593	GG	AA	1946945122
SNP_P4_127088_267212	NW_004515882.1	Scaffold398	267212	AA	GG	1946945123
SNP_P4_127089_268557	NW_004515882.1	Scaffold398	268557	CC	TT	1946945124
SNP_P4_127090_268884	NW_004515882.1	Scaffold398	268884	GG	TT	1946945125
SNP_P4_127092_269173	NW_004515882.1	Scaffold398	269173	AA	GG	1946945127
SNP_P4_127096_269990	NW_004515882.1	Scaffold398	269990	AA	TT	1946945129
SNP_P4_127099_271609	NW_004515882.1	Scaffold398	271609	TT	AA	1946945131
SNP_P4_127100_272179	NW_004515882.1	Scaffold398	272179	TT	CC	1946945133
SNP_P4_127102_274081	NW_004515882.1	Scaffold398	274081	CC	GG	1946945135
SNP_P4_127103_275315	NW_004515882.1	Scaffold398	275315	TT	AA	1946945137
SNP_P4_127105_275954	NW_004515882.1	Scaffold398	275954	CC	TT	1946945139
SNP_P4_127106_276001	NW_004515882.1	Scaffold398	276001	GG	AA	1946945141
SNP_P4_127107_278607	NW_004515882.1	Scaffold398	278607	GG	TT	1946945143

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_127108_282679	NW_004515882.1	Scaffold398	282679	CC	TT	1946945145
SNP_P4_127109_282759	NW_004515882.1	Scaffold398	282759	CC	AA	1946945147
SNP_P4_127110_285033	NW_004515882.1	Scaffold398	285033	AA	GG	1946945149
SNP_P4_127111_288429	NW_004515882.1	Scaffold398	288429	CC	TT	1946945151
SNP_P4_127112_290320	NW_004515882.1	Scaffold398	290320	CC	AA	1946945153
SNP_P4_127113_291170	NW_004515882.1	Scaffold398	291170	CC	TT	1946945155
SNP_P4_127115_292324	NW_004515882.1	Scaffold398	292324	AA	GG	1946945157
SNP_P4_127116_292325	NW_004515882.1	Scaffold398	292325	TT	CC	1946945159
SNP_P4_127117_297458	NW_004515882.1	Scaffold398	297458	CC	TT	1946945160
SNP_P4_127118_300009	NW_004515882.1	Scaffold398	300009	CC	AA	1946945162
SNP_P4_127120_304250	NW_004515882.1	Scaffold398	304250	CC	GG	1946945164
SNP_P4_127121_306539	NW_004515882.1	Scaffold398	306539	GG	AA	1946945166
SNP_P4_127123_306882	NW_004515882.1	Scaffold398	306882	GG	AA	1946945168
SNP_P4_127124_306914	NW_004515882.1	Scaffold398	306914	CC	TT	1946945170
SNP_P4_127125_308652	NW_004515882.1	Scaffold398	308652	GG	AA	1946945172
SNP_P4_127126_308902	NW_004515882.1	Scaffold398	308902	CC	AA	1946945174
SNP_P4_127128_315351	NW_004515882.1	Scaffold398	315351	TT	AA	1946945176
SNP_P4_127129_318299	NW_004515882.1	Scaffold398	318299	CC	AA	1946945178
SNP_P4_127131_328960	NW_004515882.1	Scaffold398	328960	AA	GG	1946945180
SNP_P4_127132_329855	NW_004515882.1	Scaffold398	329855	AA	GG	1946945182
SNP_P4_127133_330363	NW_004515882.1	Scaffold398	330363	TT	GG	1946945183
SNP_P4_127134_330387	NW_004515882.1	Scaffold398	330387	AA	GG	1946945185
SNP_P4_127135_330401	NW_004515882.1	Scaffold398	330401	AA	GG	1946945187
SNP_P4_127136_330732	NW_004515882.1	Scaffold398	330732	GG	AA	1946945189
SNP_P4_127137_330853	NW_004515882.1	Scaffold398	330853	TT	CC	1946945191
SNP_P4_127138_331082	NW_004515882.1	Scaffold398	331082	AA	GG	1946945193
SNP_P4_127139_331130	NW_004515882.1	Scaffold398	331130	CC	TT	1946945195
SNP_P4_127140_331176	NW_004515882.1	Scaffold398	331176	CC	TT	1946945197
SNP_P4_127141_331415	NW_004515882.1	Scaffold398	331415	GG	TT	1946945199
SNP_P4_127142_331433	NW_004515882.1	Scaffold398	331433	CC	TT	1946945201
SNP_P4_127143_331673	NW_004515882.1	Scaffold398	331673	GG	TT	1946945203
SNP_P4_127144_332525	NW_004515882.1	Scaffold398	332525	AA	GG	1946945205
SNP_P4_127145_333547	NW_004515882.1	Scaffold398	333547	TT	CC	1946945207
SNP_P4_127146_333649	NW_004515882.1	Scaffold398	333649	TT	AA	1946945209
SNP_P4_127147_333830	NW_004515882.1	Scaffold398	333830	GG	TT	1946945211
SNP_P4_127148_334332	NW_004515882.1	Scaffold398	334332	AA	GG	1946945213
SNP_P4_127149_335359	NW_004515882.1	Scaffold398	335359	AA	GG	1946945215
SNP_P4_127150_335629	NW_004515882.1	Scaffold398	335629	CC	TT	1946945217
SNP_P4_127151_335744	NW_004515882.1	Scaffold398	335744	AA	GG	1946945219
SNP_P4_127152_335749	NW_004515882.1	Scaffold398	335749	CC	TT	1946945221
SNP_P4_127153_336133	NW_004515882.1	Scaffold398	336133	TT	CC	1946945223
SNP_P4_127154_336186	NW_004515882.1	Scaffold398	336186	GG	AA	1946945225

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_127156_336220	NW_004515882.1	Scaffold398	336220	CC	TT	1946945229
SNP_P4_127158_339546	NW_004515882.1	Scaffold398	339546	GG	AA	1946945231
SNP_P4_127159_339558	NW_004515882.1	Scaffold398	339558	TT	CC	1946945233
SNP_P4_127160_339923	NW_004515882.1	Scaffold398	339923	AA	GG	1946945235
SNP_P4_127163_340705	NW_004515882.1	Scaffold398	340705	GG	AA	1946945237
SNP_P4_127164_344000	NW_004515882.1	Scaffold398	344000	AA	TT	1946945238
SNP_P4_127165_344699	NW_004515882.1	Scaffold398	344699	CC	TT	1946945240
SNP_P4_127166_344714	NW_004515882.1	Scaffold398	344714	AA	TT	1946945242
SNP_P4_127167_345338	NW_004515882.1	Scaffold398	345338	CC	GG	1946945244
SNP_P4_127169_346456	NW_004515882.1	Scaffold398	346456	CC	TT	1946945246
SNP_P4_127171_347034	NW_004515882.1	Scaffold398	347034	GG	AA	1946945248
SNP_P4_127172_347060	NW_004515882.1	Scaffold398	347060	GG	AA	1946945250
SNP_P4_127173_347374	NW_004515882.1	Scaffold398	347374	CC	AA	1946945252
SNP_P4_127174_347386	NW_004515882.1	Scaffold398	347386	CC	TT	1946945254
SNP_P4_127175_347557	NW_004515882.1	Scaffold398	347557	AA	TT	1946945256
SNP_P4_127177_348236	NW_004515882.1	Scaffold398	348236	AA	GG	1946945258
SNP_P4_127178_348244	NW_004515882.1	Scaffold398	348244	AA	GG	1946945260
SNP_P4_127179_348267	NW_004515882.1	Scaffold398	348267	TT	GG	1946945262
SNP_P4_127180_348273	NW_004515882.1	Scaffold398	348273	CC	TT	1946945264
SNP_P4_127181_348292	NW_004515882.1	Scaffold398	348292	CC	AA	1946945265
SNP_P4_127182_348406	NW_004515882.1	Scaffold398	348406	TT	CC	1946945267
SNP_P4_127183_348596	NW_004515882.1	Scaffold398	348596	GG	AA	1946945269
SNP_P4_127184_348771	NW_004515882.1	Scaffold398	348771	TT	CC	1946945271
SNP_P4_127185_348773	NW_004515882.1	Scaffold398	348773	GG	AA	1946945273
SNP_P4_127187_349220	NW_004515882.1	Scaffold398	349220	CC	TT	1946945275
SNP_P4_127188_349265	NW_004515882.1	Scaffold398	349265	GG	TT	1946945277
SNP_P4_127189_350391	NW_004515882.1	Scaffold398	350391	TT	CC	1946945279
SNP_P4_127190_350393	NW_004515882.1	Scaffold398	350393	GG	CC	1946945281
SNP_P4_127191_350396	NW_004515882.1	Scaffold398	350396	TT	GG	1946945283
SNP_P4_127192_350688	NW_004515882.1	Scaffold398	350688	TT	CC	1946945285
SNP_P4_127193_350744	NW_004515882.1	Scaffold398	350744	TT	CC	1946945287
SNP_P4_127194_351446	NW_004515882.1	Scaffold398	351446	GG	AA	1946945289
SNP_P4_127195_351447	NW_004515882.1	Scaffold398	351447	GG	AA	1946945291
SNP_P4_127196_351525	NW_004515882.1	Scaffold398	351525	AA	GG	1946945293
SNP_P4_127197_352183	NW_004515882.1	Scaffold398	352183	AA	GG	1946945295
SNP_P4_127198_352188	NW_004515882.1	Scaffold398	352188	CC	TT	1946945297
SNP_P4_127199_352192	NW_004515882.1	Scaffold398	352192	GG	TT	1946945299
SNP_P4_127200_352204	NW_004515882.1	Scaffold398	352204	TT	CC	1946945301
SNP_P4_127201_352210	NW_004515882.1	Scaffold398	352210	CC	TT	1946945303
SNP_P4_127202_352243	NW_004515882.1	Scaffold398	352243	CC	TT	1946945305
SNP_P4_127203_352249	NW_004515882.1	Scaffold398	352249	GG	AA	1946945307

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_127204_352285	NW_004515882.1	Scaffold398	352285	GG	CC	1946945309
SNP_P4_127205_352303	NW_004515882.1	Scaffold398	352303	CC	TT	1946945311
SNP_P4_127206_352507	NW_004515882.1	Scaffold398	352507	TT	GG	1946945313
SNP_P4_127207_353199	NW_004515882.1	Scaffold398	353199	TT	AA	1946945315
SNP_P4_127208_353239	NW_004515882.1	Scaffold398	353239	CC	TT	1946945317
SNP_P4_127209_353606	NW_004515882.1	Scaffold398	353606	AA	GG	1946945319
SNP_P4_127210_355365	NW_004515882.1	Scaffold398	355365	TT	CC	1946945321
SNP_P4_127211_355371	NW_004515882.1	Scaffold398	355371	GG	AA	1946945323
SNP_P4_127212_360541	NW_004515882.1	Scaffold398	360541	TT	CC	1946945325
SNP_P4_127213_360562	NW_004515882.1	Scaffold398	360562	AA	GG	1946945327
SNP_P4_127214_360581	NW_004515882.1	Scaffold398	360581	AA	GG	1946945329
SNP_P4_127215_360589	NW_004515882.1	Scaffold398	360589	GG	AA	1946945331
SNP_P4_127216_364739	NW_004515882.1	Scaffold398	364739	CC	TT	1946945333
SNP_P4_127217_364822	NW_004515882.1	Scaffold398	364822	AA	GG	1946945335
SNP_P4_127218_365015	NW_004515882.1	Scaffold398	365015	CC	TT	1946945337
SNP_P4_127219_365026	NW_004515882.1	Scaffold398	365026	GG	AA	1946945339
SNP_P4_127220_366783	NW_004515882.1	Scaffold398	366783	AA	TT	1946945341
SNP_P4_127221_366946	NW_004515882.1	Scaffold398	366946	AA	TT	1946945343
SNP_P4_127222_366979	NW_004515882.1	Scaffold398	366979	CC	TT	1946945345
SNP_P4_127223_367035	NW_004515882.1	Scaffold398	367035	TT	CC	1946945347
SNP_P4_127224_368597	NW_004515882.1	Scaffold398	368597	AA	TT	1946945349
SNP_P4_127226_373810	NW_004515882.1	Scaffold398	373810	TT	CC	1946945351
SNP_P4_127228_376980	NW_004515882.1	Scaffold398	376980	TT	GG	1946945353
SNP_P4_127229_377078	NW_004515882.1	Scaffold398	377078	GG	TT	1946945355
SNP_P4_127230_377143	NW_004515882.1	Scaffold398	377143	GG	AA	1946945357
SNP_P4_127231_377144	NW_004515882.1	Scaffold398	377144	GG	AA	1946945359
SNP_P4_127232_378674	NW_004515882.1	Scaffold398	378674	AA	GG	1946945361
SNP_P4_127233_378703	NW_004515882.1	Scaffold398	378703	TT	CC	1946945363
SNP_P4_127234_378713	NW_004515882.1	Scaffold398	378713	AA	GG	1946945365
SNP_P4_127235_378801	NW_004515882.1	Scaffold398	378801	AA	GG	1946945367
SNP_P4_127236_378810	NW_004515882.1	Scaffold398	378810	AA	GG	1946945369
SNP_P4_127237_378827	NW_004515882.1	Scaffold398	378827	AA	GG	1946945371
SNP_P4_127238_378869	NW_004515882.1	Scaffold398	378869	GG	AA	1946945373
SNP_P4_127239_378990	NW_004515882.1	Scaffold398	378990	AA	CC	1946945375
SNP_P4_127240_379026	NW_004515882.1	Scaffold398	379026	CC	TT	1946945377
SNP_P4_127241_379041	NW_004515882.1	Scaffold398	379041	CC	TT	1946945379
SNP_P4_127243_379155	NW_004515882.1	Scaffold398	379155	AA	TT	1946945381
SNP_P4_127244_382682	NW_004515882.1	Scaffold398	382682	AA	CC	1946945383
SNP_P4_127245_384123	NW_004515882.1	Scaffold398	384123	AA	TT	1946945385
SNP_P4_127246_384153	NW_004515882.1	Scaffold398	384153	AA	GG	1946945387
SNP_P4_127247_384210	NW_004515882.1	Scaffold398	384210	GG	TT	1946945389
SNP_P4_127248_384309	NW_004515882.1	Scaffold398	384309	TT	CC	1946945391

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_127250_389945	NW_004515882.1	Scaffold398	389945	AA	GG	1946945395
SNP_P4_127251_390090	NW_004515882.1	Scaffold398	390090	CC	TT	1946945397
SNP_P4_127252_390120	NW_004515882.1	Scaffold398	390120	GG	AA	1946945399
SNP_P4_127253_390135	NW_004515882.1	Scaffold398	390135	AA	CC	1946945401
SNP_P4_127254_390280	NW_004515882.1	Scaffold398	390280	AA	GG	1946945403
SNP_P4_127255_390284	NW_004515882.1	Scaffold398	390284	AA	CC	1946945405
SNP_P4_127256_390475	NW_004515882.1	Scaffold398	390475	TT	GG	1946945407
SNP_P4_127257_390482	NW_004515882.1	Scaffold398	390482	GG	TT	1946945409
SNP_P4_127258_390506	NW_004515882.1	Scaffold398	390506	TT	CC	1946945411
SNP_P4_127259_390530	NW_004515882.1	Scaffold398	390530	TT	CC	1946945414
SNP_P4_127261_390552	NW_004515882.1	Scaffold398	390552	GG	AA	1946945416
SNP_P4_127262_390600	NW_004515882.1	Scaffold398	390600	CC	TT	1946945418
SNP_P4_127264_392083	NW_004515882.1	Scaffold398	392083	TT	AA	1946945420
SNP_P4_127265_395623	NW_004515882.1	Scaffold398	395623	AA	GG	1946945422
SNP_P4_127266_396621	NW_004515882.1	Scaffold398	396621	GG	TT	1946945424
SNP_P4_127267_396636	NW_004515882.1	Scaffold398	396636	GG	AA	1946945426
SNP_P4_127268_397008	NW_004515882.1	Scaffold398	397008	CC	AA	1946945428
SNP_P4_127269_400858	NW_004515882.1	Scaffold398	400858	GG	TT	1946945430
SNP_P4_127270_402612	NW_004515882.1	Scaffold398	402612	TT	CC	1946945432
SNP_P4_127271_402945	NW_004515882.1	Scaffold398	402945	TT	CC	1946945434
SNP_P4_127272_402973	NW_004515882.1	Scaffold398	402973	GG	CC	1946945436
SNP_P4_127273_403877	NW_004515882.1	Scaffold398	403877	AA	GG	1946945438
SNP_P4_127274_403885	NW_004515882.1	Scaffold398	403885	CC	TT	1946945440
SNP_P4_127275_404214	NW_004515882.1	Scaffold398	404214	TT	CC	1946945442
SNP_P4_127276_404608	NW_004515882.1	Scaffold398	404608	GG	AA	1946945444
SNP_P4_127277_404755	NW_004515882.1	Scaffold398	404755	GG	AA	1946945446
SNP_P4_127278_405612	NW_004515882.1	Scaffold398	405612	GG	TT	1946945448
SNP_P4_127279_409209	NW_004515882.1	Scaffold398	409209	AA	GG	1946945450
SNP_P4_127280_409232	NW_004515882.1	Scaffold398	409232	AA	GG	1946945452
SNP_P4_127281_413968	NW_004515882.1	Scaffold398	413968	GG	TT	1946945454
SNP_P4_127282_413994	NW_004515882.1	Scaffold398	413994	AA	GG	1946945456
SNP_P4_127283_414048	NW_004515882.1	Scaffold398	414048	GG	AA	1946945458
SNP_P4_127284_414824	NW_004515882.1	Scaffold398	414824	GG	AA	1946945460
SNP_P4_127285_418219	NW_004515882.1	Scaffold398	418219	CC	TT	1946945462
SNP_P4_127286_418324	NW_004515882.1	Scaffold398	418324	CC	GG	1946945464
SNP_P4_127287_418495	NW_004515882.1	Scaffold398	418495	AA	TT	1946945466
SNP_P4_127288_419464	NW_004515882.1	Scaffold398	419464	CC	TT	1946945468
SNP_P4_127289_419546	NW_004515882.1	Scaffold398	419546	TT	GG	1946945470
SNP_P4_127290_420881	NW_004515882.1	Scaffold398	420881	TT	CC	1946945472
SNP_P4_127291_422765	NW_004515882.1	Scaffold398	422765	GG	AA	1946945474
SNP_P4_127292_427009	NW_004515882.1	Scaffold398	427009	AA	CC	1946945475

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_127293_427238	NW_004515882.1	Scaffold398	427238	TT	CC	1946945477
SNP_P4_127294_427353	NW_004515882.1	Scaffold398	427353	CC	TT	1946945479
SNP_P4_127295_427617	NW_004515882.1	Scaffold398	427617	GG	TT	1946945481
SNP_P4_127296_427794	NW_004515882.1	Scaffold398	427794	TT	GG	1946945483
SNP_P4_127297_430325	NW_004515882.1	Scaffold398	430325	CC	GG	1946945485
SNP_P4_127298_430333	NW_004515882.1	Scaffold398	430333	TT	CC	1946945487
SNP_P4_127299_430348	NW_004515882.1	Scaffold398	430348	AA	GG	1946945489
SNP_P4_127300_430516	NW_004515882.1	Scaffold398	430516	GG	AA	1946945491
SNP_P4_127301_430709	NW_004515882.1	Scaffold398	430709	TT	CC	1946945493
SNP_P4_127302_431210	NW_004515882.1	Scaffold398	431210	TT	CC	1946945495
SNP_P4_127303_432900	NW_004515882.1	Scaffold398	432900	CC	TT	1946945497
SNP_P4_127304_434904	NW_004515882.1	Scaffold398	434904	GG	AA	1946945499
SNP_P4_127305_436872	NW_004515882.1	Scaffold398	436872	TT	CC	1946945501
SNP_P4_127306_441176	NW_004515882.1	Scaffold398	441176	GG	AA	1946945503
SNP_P4_127307_449257	NW_004515882.1	Scaffold398	449257	AA	GG	1946945505
SNP_P4_127309_452033	NW_004515882.1	Scaffold398	452033	AA	GG	1946945507
SNP_P4_127310_452557	NW_004515882.1	Scaffold398	452557	GG	AA	1946945509
SNP_P4_127311_453562	NW_004515882.1	Scaffold398	453562	TT	AA	1946945511
SNP_P4_127312_458186	NW_004515882.1	Scaffold398	458186	AA	GG	1946945513
SNP_P4_127313_458794	NW_004515882.1	Scaffold398	458794	TT	CC	1946945515
SNP_P4_127314_459529	NW_004515882.1	Scaffold398	459529	TT	AA	1946945517
SNP_P4_127316_459631	NW_004515882.1	Scaffold398	459631	TT	GG	1946945519
SNP_P4_127317_461847	NW_004515882.1	Scaffold398	461847	GG	AA	1946945521
SNP_P4_127318_461859	NW_004515882.1	Scaffold398	461859	AA	GG	1946945523
SNP_P4_127319_462162	NW_004515882.1	Scaffold398	462162	GG	AA	1946945525
SNP_P4_127320_463299	NW_004515882.1	Scaffold398	463299	AA	GG	1946945527
SNP_P4_127322_464764	NW_004515882.1	Scaffold398	464764	AA	GG	1946945529
SNP_P4_127323_465866	NW_004515882.1	Scaffold398	465866	CC	TT	1946945531
SNP_P4_127324_465882	NW_004515882.1	Scaffold398	465882	AA	CC	1946945533
SNP_P4_127325_465988	NW_004515882.1	Scaffold398	465988	AA	GG	1946945536
SNP_P4_127327_467524	NW_004515882.1	Scaffold398	467524	AA	TT	1946945538
SNP_P4_127328_470387	NW_004515882.1	Scaffold398	470387	TT	GG	1946945540
SNP_P4_127329_470964	NW_004515882.1	Scaffold398	470964	CC	TT	1946945542
SNP_P4_127331_475248	NW_004515882.1	Scaffold398	475248	GG	AA	1946945544
SNP_P4_127332_476310	NW_004515882.1	Scaffold398	476310	AA	GG	1946945546
SNP_P4_127333_477103	NW_004515882.1	Scaffold398	477103	GG	AA	1946945548
SNP_P4_127334_477471	NW_004515882.1	Scaffold398	477471	AA	GG	1946945550
SNP_P4_127335_480191	NW_004515882.1	Scaffold398	480191	AA	GG	1946945552
SNP_P4_127336_480885	NW_004515882.1	Scaffold398	480885	CC	TT	1946945554
SNP_P4_127337_480931	NW_004515882.1	Scaffold398	480931	TT	CC	1946945556
SNP_P4_127338_483412	NW_004515882.1	Scaffold398	483412	GG	AA	1946945558
SNP_P4_127339_486242	NW_004515882.1	Scaffold398	486242	TT	AA	1946945560

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_127343_491110	NW_004515882.1	Scaffold398	491110	GG	CC	1946945565
SNP_P4_127344_491711	NW_004515882.1	Scaffold398	491711	CC	TT	1946945567
SNP_P4_127345_491737	NW_004515882.1	Scaffold398	491737	GG	AA	1946945569
SNP_P4_127346_491978	NW_004515882.1	Scaffold398	491978	GG	AA	1946945571
SNP_P4_127347_492416	NW_004515882.1	Scaffold398	492416	TT	CC	1946945573
SNP_P4_127349_492578	NW_004515882.1	Scaffold398	492578	AA	TT	1946945575
SNP_P4_127350_492770	NW_004515882.1	Scaffold398	492770	TT	CC	1946945577
SNP_P4_127351_494137	NW_004515882.1	Scaffold398	494137	AA	GG	1946945579
SNP_P4_127352_494496	NW_004515882.1	Scaffold398	494496	AA	GG	1946945581
SNP_P4_127353_494799	NW_004515882.1	Scaffold398	494799	TT	CC	1946945583
SNP_P4_127355_494984	NW_004515882.1	Scaffold398	494984	CC	TT	1946945585
SNP_P4_127356_495796	NW_004515882.1	Scaffold398	495796	CC	TT	1946945587
SNP_P4_127357_495798	NW_004515882.1	Scaffold398	495798	CC	TT	1946945589
SNP_P4_127358_496385	NW_004515882.1	Scaffold398	496385	CC	TT	1946945591
SNP_P4_127359_29456	NW_004515883.1	Scaffold399	29456	GG	AA	1946945593
SNP_P4_127360_29468	NW_004515883.1	Scaffold399	29468	AA	GG	1946945595
SNP_P4_127361_29476	NW_004515883.1	Scaffold399	29476	GG	CC	1946945597
SNP_P4_127362_44351	NW_004515883.1	Scaffold399	44351	AA	TT	1946945599
SNP_P4_127363_49518	NW_004515883.1	Scaffold399	49518	TT	AA	1946945601
SNP_P4_127364_72236	NW_004515883.1	Scaffold399	72236	TT	CC	1946945604
SNP_P4_127365_72247	NW_004515883.1	Scaffold399	72247	CC	AA	1946945606
SNP_P4_127366_74227	NW_004515883.1	Scaffold399	74227	AA	GG	1946945608
SNP_P4_127367_74228	NW_004515883.1	Scaffold399	74228	AA	CC	1946945610
SNP_P4_127368_74236	NW_004515883.1	Scaffold399	74236	GG	TT	1946945612
SNP_P4_127369_81299	NW_004515883.1	Scaffold399	81299	AA	GG	1946945614
SNP_P4_127370_81810	NW_004515883.1	Scaffold399	81810	AA	GG	1946945616
SNP_P4_127371_82474	NW_004515883.1	Scaffold399	82474	GG	TT	1946945618
SNP_P4_127372_82523	NW_004515883.1	Scaffold399	82523	CC	AA	1946945620
SNP_P4_127373_82533	NW_004515883.1	Scaffold399	82533	AA	GG	1946945622
SNP_P4_127374_82565	NW_004515883.1	Scaffold399	82565	TT	AA	1946945624
SNP_P4_127375_94738	NW_004515883.1	Scaffold399	94738	TT	GG	1946945626
SNP_P4_127376_94758	NW_004515883.1	Scaffold399	94758	CC	TT	1946945628
SNP_P4_127377_94774	NW_004515883.1	Scaffold399	94774	TT	CC	1946945630
SNP_P4_127378_94776	NW_004515883.1	Scaffold399	94776	AA	CC	1946945632
SNP_P4_127379_104581	NW_004515883.1	Scaffold399	104581	CC	TT	1946945634
SNP_P4_127380_111173	NW_004515883.1	Scaffold399	111173	AA	GG	1946945636
SNP_P4_127381_364	NW_004515884.1	Scaffold400	364	TT	GG	1946945638
SNP_P4_127382_403	NW_004515884.1	Scaffold400	403	AA	GG	1946945640
SNP_P4_127385_6364	NW_004515884.1	Scaffold400	6364	GG	AA	1946945642
SNP_P4_127387_17157	NW_004515884.1	Scaffold400	17157	CC	TT	1946945644
SNP_P4_127388_17166	NW_004515884.1	Scaffold400	17166	GG	CC	1946945646

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_127390_25252	NW_004515884.1	Scaffold400	25252	AA	GG	1946945650
SNP_P4_127391_25282	NW_004515884.1	Scaffold400	25282	AA	CC	1946945652
SNP_P4_127393_41412	NW_004515884.1	Scaffold400	41412	TT	CC	1946945654
SNP_P4_127394_41428	NW_004515884.1	Scaffold400	41428	TT	AA	1946945656
SNP_P4_127395_41693	NW_004515884.1	Scaffold400	41693	TT	CC	1946945658
SNP_P4_127396_41696	NW_004515884.1	Scaffold400	41696	GG	AA	1946945660
SNP_P4_127397_41714	NW_004515884.1	Scaffold400	41714	TT	CC	1946945662
SNP_P4_127398_41718	NW_004515884.1	Scaffold400	41718	CC	TT	1946945664
SNP_P4_127399_41730	NW_004515884.1	Scaffold400	41730	TT	CC	1946945666
SNP_P4_127400_41800	NW_004515884.1	Scaffold400	41800	AA	CC	1946945668
SNP_P4_127401_41853	NW_004515884.1	Scaffold400	41853	GG	AA	1946945670
SNP_P4_127402_41876	NW_004515884.1	Scaffold400	41876	GG	CC	1946945672
SNP_P4_127403_41894	NW_004515884.1	Scaffold400	41894	TT	CC	1946945674
SNP_P4_127404_41895	NW_004515884.1	Scaffold400	41895	GG	TT	1946945676
SNP_P4_127405_41930	NW_004515884.1	Scaffold400	41930	CC	AA	1946945678
SNP_P4_127406_41938	NW_004515884.1	Scaffold400	41938	TT	AA	1946945680
SNP_P4_127407_41948	NW_004515884.1	Scaffold400	41948	GG	AA	1946945682
SNP_P4_127408_42027	NW_004515884.1	Scaffold400	42027	GG	AA	1946945684
SNP_P4_127409_42075	NW_004515884.1	Scaffold400	42075	CC	AA	1946945686
SNP_P4_127410_42090	NW_004515884.1	Scaffold400	42090	AA	TT	1946945688
SNP_P4_127411_42099	NW_004515884.1	Scaffold400	42099	GG	AA	1946945690
SNP_P4_127412_42101	NW_004515884.1	Scaffold400	42101	CC	TT	1946945692
SNP_P4_127413_42115	NW_004515884.1	Scaffold400	42115	TT	CC	1946945694
SNP_P4_127414_42184	NW_004515884.1	Scaffold400	42184	AA	TT	1946945696
SNP_P4_127415_42193	NW_004515884.1	Scaffold400	42193	TT	AA	1946945698
SNP_P4_127416_42194	NW_004515884.1	Scaffold400	42194	AA	TT	1946945700
SNP_P4_127417_42196	NW_004515884.1	Scaffold400	42196	GG	CC	1946945702
SNP_P4_127418_42255	NW_004515884.1	Scaffold400	42255	GG	TT	1946945704
SNP_P4_127419_42273	NW_004515884.1	Scaffold400	42273	CC	TT	1946945706
SNP_P4_127420_42291	NW_004515884.1	Scaffold400	42291	TT	CC	1946945708
SNP_P4_127421_42373	NW_004515884.1	Scaffold400	42373	TT	GG	1946945710
SNP_P4_127422_42433	NW_004515884.1	Scaffold400	42433	TT	CC	1946945712
SNP_P4_127423_42441	NW_004515884.1	Scaffold400	42441	AA	TT	1946945714
SNP_P4_127424_42459	NW_004515884.1	Scaffold400	42459	CC	TT	1946945716
SNP_P4_127425_42503	NW_004515884.1	Scaffold400	42503	TT	CC	1946945718
SNP_P4_127426_42544	NW_004515884.1	Scaffold400	42544	TT	AA	1946945720
SNP_P4_127427_42806	NW_004515884.1	Scaffold400	42806	CC	TT	1946945722
SNP_P4_127428_42818	NW_004515884.1	Scaffold400	42818	TT	CC	1946945724
SNP_P4_127429_42846	NW_004515884.1	Scaffold400	42846	TT	GG	1946945726
SNP_P4_127430_43070	NW_004515884.1	Scaffold400	43070	CC	GG	1946945728
SNP_P4_127431_43194	NW_004515884.1	Scaffold400	43194	CC	AA	1946945730

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_127432_43238	NW_004515884.1	Scaffold400	43238	CC	AA	1946945732
SNP_P4_127433_43463	NW_004515884.1	Scaffold400	43463	TT	AA	1946945734
SNP_P4_127434_43529	NW_004515884.1	Scaffold400	43529	CC	TT	1946945736
SNP_P4_127436_43620	NW_004515884.1	Scaffold400	43620	CC	TT	1946945738
SNP_P4_127437_43636	NW_004515884.1	Scaffold400	43636	AA	GG	1946945740
SNP_P4_127438_43649	NW_004515884.1	Scaffold400	43649	CC	GG	1946945742
SNP_P4_127439_62760	NW_004515884.1	Scaffold400	62760	GG	AA	1946945744
SNP_P4_127440_62808	NW_004515884.1	Scaffold400	62808	AA	GG	1946945746
SNP_P4_127441_66610	NW_004515884.1	Scaffold400	66610	AA	GG	1946945748
SNP_P4_127442_66860	NW_004515884.1	Scaffold400	66860	AA	TT	1946945750
SNP_P4_127443_66878	NW_004515884.1	Scaffold400	66878	AA	GG	1946945752
SNP_P4_127444_66914	NW_004515884.1	Scaffold400	66914	AA	GG	1946945754
SNP_P4_127445_67155	NW_004515884.1	Scaffold400	67155	AA	TT	1946945756
SNP_P4_127446_69435	NW_004515884.1	Scaffold400	69435	TT	CC	1946945758
SNP_P4_127447_69799	NW_004515884.1	Scaffold400	69799	AA	GG	1946945760
SNP_P4_127448_11899	NW_004515885.1	Scaffold401	11899	TT	GG	1946945762
SNP_P4_127449_22252	NW_004515885.1	Scaffold401	22252	TT	AA	1946945764
SNP_P4_127450_33879	NW_004515885.1	Scaffold401	33879	AA	GG	1946945766
SNP_P4_127451_45121	NW_004515885.1	Scaffold401	45121	CC	TT	1946945768
SNP_P4_127452_53298	NW_004515885.1	Scaffold401	53298	TT	GG	1946945770
SNP_P4_127454_81194	NW_004515885.1	Scaffold401	81194	AA	GG	1946945772
SNP_P4_127455_81199	NW_004515885.1	Scaffold401	81199	TT	AA	1946945774
SNP_P4_127457_100495	NW_004515885.1	Scaffold401	100495	AA	GG	1946945777
SNP_P4_127458_102059	NW_004515885.1	Scaffold401	102059	AA	CC	1946945779
SNP_P4_127459_102072	NW_004515885.1	Scaffold401	102072	GG	CC	1946945781
SNP_P4_127460_102107	NW_004515885.1	Scaffold401	102107	CC	AA	1946945783
SNP_P4_127461_102112	NW_004515885.1	Scaffold401	102112	CC	AA	1946945785
SNP_P4_127462_102160	NW_004515885.1	Scaffold401	102160	CC	TT	1946945787
SNP_P4_127463_102164	NW_004515885.1	Scaffold401	102164	TT	CC	1946945789
SNP_P4_127464_102417	NW_004515885.1	Scaffold401	102417	TT	GG	1946945791
SNP_P4_127465_102424	NW_004515885.1	Scaffold401	102424	TT	CC	1946945793
SNP_P4_127466_102467	NW_004515885.1	Scaffold401	102467	AA	GG	1946945795
SNP_P4_127467_104994	NW_004515885.1	Scaffold401	104994	CC	TT	1946945797
SNP_P4_127468_105007	NW_004515885.1	Scaffold401	105007	TT	AA	1946945799
SNP_P4_127469_123632	NW_004515885.1	Scaffold401	123632	GG	TT	1946945801
SNP_P4_127470_128357	NW_004515885.1	Scaffold401	128357	AA	TT	1946945803
SNP_P4_127471_128358	NW_004515885.1	Scaffold401	128358	TT	AA	1946945805
SNP_P4_127472_149300	NW_004515885.1	Scaffold401	149300	TT	AA	1946945807
SNP_P4_127474_151228	NW_004515885.1	Scaffold401	151228	GG	CC	1946945809
SNP_P4_127475_166656	NW_004515885.1	Scaffold401	166656	TT	CC	1946945811
SNP_P4_127476_166657	NW_004515885.1	Scaffold401	166657	TT	GG	1946945813
SNP_P4_127477_166668	NW_004515885.1	Scaffold401	166668	AA	GG	1946945815

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_127479_167002	NW_004515885.1	Scaffold401	167002	TT	CC	1946945819
SNP_P4_127480_167073	NW_004515885.1	Scaffold401	167073	AA	GG	1946945821
SNP_P4_127481_167086	NW_004515885.1	Scaffold401	167086	TT	GG	1946945823
SNP_P4_127482_169029	NW_004515885.1	Scaffold401	169029	AA	TT	1946945826
SNP_P4_127483_169032	NW_004515885.1	Scaffold401	169032	TT	GG	1946945828
SNP_P4_127484_172151	NW_004515885.1	Scaffold401	172151	CC	TT	1946945830
SNP_P4_127485_172467	NW_004515885.1	Scaffold401	172467	TT	CC	1946945832
SNP_P4_127487_202112	NW_004515885.1	Scaffold401	202112	TT	CC	1946945834
SNP_P4_127488_215463	NW_004515885.1	Scaffold401	215463	TT	CC	1946945836
SNP_P4_127489_215763	NW_004515885.1	Scaffold401	215763	AA	GG	1946945838
SNP_P4_127490_221041	NW_004515885.1	Scaffold401	221041	TT	CC	1946945840
SNP_P4_127491_223188	NW_004515885.1	Scaffold401	223188	GG	TT	1946945842
SNP_P4_127492_223190	NW_004515885.1	Scaffold401	223190	GG	AA	1946945844
SNP_P4_127493_223198	NW_004515885.1	Scaffold401	223198	CC	TT	1946945846
SNP_P4_127494_223199	NW_004515885.1	Scaffold401	223199	CC	AA	1946945848
SNP_P4_127495_2225	NW_004515886.1	Scaffold404	2225	AA	TT	1946945850
SNP_P4_127496_2443	NW_004515886.1	Scaffold404	2443	AA	CC	1946945852
SNP_P4_127497_2667	NW_004515886.1	Scaffold404	2667	AA	GG	1946945854
SNP_P4_127498_2727	NW_004515886.1	Scaffold404	2727	AA	TT	1946945856
SNP_P4_127499_2753	NW_004515886.1	Scaffold404	2753	AA	CC	1946945858
SNP_P4_127500_2830	NW_004515886.1	Scaffold404	2830	AA	GG	1946945860
SNP_P4_127501_6493	NW_004515886.1	Scaffold404	6493	GG	CC	1946945862
SNP_P4_127502_6627	NW_004515886.1	Scaffold404	6627	TT	AA	1946945864
SNP_P4_127503_6630	NW_004515886.1	Scaffold404	6630	TT	AA	1946945866
SNP_P4_127504_6638	NW_004515886.1	Scaffold404	6638	TT	AA	1946945868
SNP_P4_127505_6786	NW_004515886.1	Scaffold404	6786	AA	CC	1946945870
SNP_P4_127506_6824	NW_004515886.1	Scaffold404	6824	TT	AA	1946945872
SNP_P4_127508_7214	NW_004515886.1	Scaffold404	7214	AA	TT	1946945874
SNP_P4_127509_7503	NW_004515886.1	Scaffold404	7503	TT	GG	1946945876
SNP_P4_127510_13061	NW_004515886.1	Scaffold404	13061	GG	TT	1946945878
SNP_P4_127511_13110	NW_004515886.1	Scaffold404	13110	AA	GG	1946945880
SNP_P4_127512_14522	NW_004515886.1	Scaffold404	14522	AA	TT	1946945882
SNP_P4_127513_14532	NW_004515886.1	Scaffold404	14532	CC	GG	1946945884
SNP_P4_127514_15281	NW_004515886.1	Scaffold404	15281	TT	AA	1946945886
SNP_P4_127515_18382	NW_004515886.1	Scaffold404	18382	AA	TT	1946945888
SNP_P4_127516_23747	NW_004515886.1	Scaffold404	23747	CC	GG	1946945890
SNP_P4_127517_23773	NW_004515886.1	Scaffold404	23773	TT	CC	1946945892
SNP_P4_127518_23775	NW_004515886.1	Scaffold404	23775	GG	AA	1946945894
SNP_P4_127519_23823	NW_004515886.1	Scaffold404	23823	TT	AA	1946945896
SNP_P4_127520_23830	NW_004515886.1	Scaffold404	23830	CC	AA	1946945898
SNP_P4_127521_24107	NW_004515886.1	Scaffold404	24107	TT	AA	1946945900

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_127522_25500	NW_004515886.1	Scaffold404	25500	CC	GG	1946945902
SNP_P4_127523_25508	NW_004515886.1	Scaffold404	25508	GG	AA	1946945904
SNP_P4_127524_25612	NW_004515886.1	Scaffold404	25612	CC	TT	1946945906
SNP_P4_127525_25619	NW_004515886.1	Scaffold404	25619	GG	AA	1946945908
SNP_P4_127526_25667	NW_004515886.1	Scaffold404	25667	TT	GG	1946945910
SNP_P4_127527_25709	NW_004515886.1	Scaffold404	25709	AA	GG	1946945912
SNP_P4_127528_25717	NW_004515886.1	Scaffold404	25717	TT	CC	1946945914
SNP_P4_127529_25840	NW_004515886.1	Scaffold404	25840	TT	AA	1946945916
SNP_P4_127530_25848	NW_004515886.1	Scaffold404	25848	TT	GG	1946945918
SNP_P4_127531_25849	NW_004515886.1	Scaffold404	25849	AA	GG	1946945920
SNP_P4_127532_25867	NW_004515886.1	Scaffold404	25867	AA	GG	1946945922
SNP_P4_127533_25909	NW_004515886.1	Scaffold404	25909	TT	CC	1946945924
SNP_P4_127534_25933	NW_004515886.1	Scaffold404	25933	AA	TT	1946945926
SNP_P4_127535_25943	NW_004515886.1	Scaffold404	25943	AA	GG	1946945928
SNP_P4_127536_25978	NW_004515886.1	Scaffold404	25978	TT	CC	1946945930
SNP_P4_127537_26044	NW_004515886.1	Scaffold404	26044	AA	CC	1946945932
SNP_P4_127538_26074	NW_004515886.1	Scaffold404	26074	TT	CC	1946945934
SNP_P4_127539_26153	NW_004515886.1	Scaffold404	26153	CC	AA	1946945936
SNP_P4_127540_26172	NW_004515886.1	Scaffold404	26172	TT	AA	1946945938
SNP_P4_127541_33664	NW_004515886.1	Scaffold404	33664	GG	TT	1946945940
SNP_P4_127542_35473	NW_004515886.1	Scaffold404	35473	TT	CC	1946945942
SNP_P4_127543_35530	NW_004515886.1	Scaffold404	35530	CC	GG	1946945944
SNP_P4_127544_37925	NW_004515886.1	Scaffold404	37925	TT	CC	1946945946
SNP_P4_127545_38214	NW_004515886.1	Scaffold404	38214	GG	TT	1946945949
SNP_P4_127546_38222	NW_004515886.1	Scaffold404	38222	AA	GG	1946945951
SNP_P4_127547_40134	NW_004515886.1	Scaffold404	40134	CC	GG	1946945953
SNP_P4_127548_43900	NW_004515886.1	Scaffold404	43900	TT	CC	1946945955
SNP_P4_127549_43902	NW_004515886.1	Scaffold404	43902	GG	AA	1946945957
SNP_P4_127550_44041	NW_004515886.1	Scaffold404	44041	AA	GG	1946945959
SNP_P4_127551_44129	NW_004515886.1	Scaffold404	44129	TT	GG	1946945961
SNP_P4_127552_44173	NW_004515886.1	Scaffold404	44173	AA	TT	1946945963
SNP_P4_127553_44190	NW_004515886.1	Scaffold404	44190	TT	GG	1946945965
SNP_P4_127554_44294	NW_004515886.1	Scaffold404	44294	TT	CC	1946945967
SNP_P4_127555_44412	NW_004515886.1	Scaffold404	44412	GG	AA	1946945969
SNP_P4_127556_44433	NW_004515886.1	Scaffold404	44433	TT	CC	1946945971
SNP_P4_127557_44791	NW_004515886.1	Scaffold404	44791	CC	TT	1946945973
SNP_P4_127558_44825	NW_004515886.1	Scaffold404	44825	AA	TT	1946945975
SNP_P4_127559_44838	NW_004515886.1	Scaffold404	44838	GG	TT	1946945977
SNP_P4_127560_44840	NW_004515886.1	Scaffold404	44840	GG	TT	1946945979
SNP_P4_127561_44854	NW_004515886.1	Scaffold404	44854	AA	TT	1946945981
SNP_P4_127562_44937	NW_004515886.1	Scaffold404	44937	GG	TT	1946945983
SNP_P4_127563_45145	NW_004515886.1	Scaffold404	45145	TT	CC	1946945985

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_127565_46595	NW_004515886.1	Scaffold404	46595	AA	GG	1946945989
SNP_P4_127566_46836	NW_004515886.1	Scaffold404	46836	GG	AA	1946945991
SNP_P4_127567_50057	NW_004515886.1	Scaffold404	50057	TT	AA	1946945993
SNP_P4_127568_55664	NW_004515886.1	Scaffold404	55664	TT	CC	1946945995
SNP_P4_127569_61652	NW_004515886.1	Scaffold404	61652	CC	GG	1946945997
SNP_P4_127570_62267	NW_004515886.1	Scaffold404	62267	CC	TT	1946945999
SNP_P4_127571_63567	NW_004515886.1	Scaffold404	63567	AA	GG	1946946001
SNP_P4_127572_63650	NW_004515886.1	Scaffold404	63650	AA	TT	1946946003
SNP_P4_127573_63960	NW_004515886.1	Scaffold404	63960	AA	GG	1946946005
SNP_P4_127574_63963	NW_004515886.1	Scaffold404	63963	TT	CC	1946946007
SNP_P4_127575_64017	NW_004515886.1	Scaffold404	64017	TT	AA	1946946009
SNP_P4_127576_64113	NW_004515886.1	Scaffold404	64113	AA	CC	1946946011
SNP_P4_127577_64209	NW_004515886.1	Scaffold404	64209	AA	TT	1946946013
SNP_P4_127578_64260	NW_004515886.1	Scaffold404	64260	AA	CC	1946946015
SNP_P4_127579_64304	NW_004515886.1	Scaffold404	64304	AA	GG	1946946017
SNP_P4_127580_64704	NW_004515886.1	Scaffold404	64704	AA	TT	1946946019
SNP_P4_127581_64707	NW_004515886.1	Scaffold404	64707	TT	AA	1946946021
SNP_P4_127582_64797	NW_004515886.1	Scaffold404	64797	CC	TT	1946946023
SNP_P4_127583_64802	NW_004515886.1	Scaffold404	64802	GG	TT	1946946025
SNP_P4_127584_64809	NW_004515886.1	Scaffold404	64809	GG	AA	1946946027
SNP_P4_127585_64832	NW_004515886.1	Scaffold404	64832	AA	GG	1946946029
SNP_P4_127586_71350	NW_004515886.1	Scaffold404	71350	AA	TT	1946946031
SNP_P4_127587_80083	NW_004515886.1	Scaffold404	80083	GG	CC	1946946033
SNP_P4_127588_111637	NW_004515886.1	Scaffold404	111637	TT	CC	1946946035
SNP_P4_127589_114665	NW_004515886.1	Scaffold404	114665	GG	AA	1946946037
SNP_P4_127590_119682	NW_004515886.1	Scaffold404	119682	TT	GG	1946946039
SNP_P4_127591_119693	NW_004515886.1	Scaffold404	119693	TT	CC	1946946041
SNP_P4_127592_119695	NW_004515886.1	Scaffold404	119695	TT	CC	1946946043
SNP_P4_127593_126347	NW_004515886.1	Scaffold404	126347	AA	GG	1946946045
SNP_P4_127594_126367	NW_004515886.1	Scaffold404	126367	CC	AA	1946946047
SNP_P4_127595_126513	NW_004515886.1	Scaffold404	126513	TT	CC	1946946049
SNP_P4_127596_137210	NW_004515886.1	Scaffold404	137210	TT	GG	1946946051
SNP_P4_127597_143204	NW_004515886.1	Scaffold404	143204	TT	CC	1946946053
SNP_P4_127598_143387	NW_004515886.1	Scaffold404	143387	TT	GG	1946946055
SNP_P4_127599_143549	NW_004515886.1	Scaffold404	143549	TT	GG	1946946057
SNP_P4_127600_143559	NW_004515886.1	Scaffold404	143559	CC	TT	1946946059
SNP_P4_127601_149879	NW_004515886.1	Scaffold404	149879	AA	GG	1946946062
SNP_P4_127602_155493	NW_004515886.1	Scaffold404	155493	CC	TT	1946946064
SNP_P4_127603_156433	NW_004515886.1	Scaffold404	156433	TT	CC	1946946066
SNP_P4_127604_156437	NW_004515886.1	Scaffold404	156437	GG	AA	1946946068
SNP_P4_127605_156442	NW_004515886.1	Scaffold404	156442	GG	AA	1946946070

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_127607_156467	NW_004515886.1	Scaffold404	156467	GG	AA	1946946074
SNP_P4_127608_156504	NW_004515886.1	Scaffold404	156504	TT	CC	1946946076
SNP_P4_127609_156517	NW_004515886.1	Scaffold404	156517	GG	TT	1946946078
SNP_P4_127610_161379	NW_004515886.1	Scaffold404	161379	AA	GG	1946946080
SNP_P4_127611_161868	NW_004515886.1	Scaffold404	161868	AA	GG	1946946082
SNP_P4_127612_164166	NW_004515886.1	Scaffold404	164166	AA	TT	1946946084
SNP_P4_127613_164221	NW_004515886.1	Scaffold404	164221	GG	AA	1946946086
SNP_P4_127615_171380	NW_004515886.1	Scaffold404	171380	TT	CC	1946946088
SNP_P4_127616_171414	NW_004515886.1	Scaffold404	171414	CC	GG	1946946090
SNP_P4_127617_178988	NW_004515886.1	Scaffold404	178988	GG	AA	1946946092
SNP_P4_127618_180599	NW_004515886.1	Scaffold404	180599	GG	TT	1946946094
SNP_P4_127619_181169	NW_004515886.1	Scaffold404	181169	TT	CC	1946946096
SNP_P4_127620_181569	NW_004515886.1	Scaffold404	181569	TT	CC	1946946098
SNP_P4_127621_181570	NW_004515886.1	Scaffold404	181570	TT	CC	1946946100
SNP_P4_127622_181596	NW_004515886.1	Scaffold404	181596	AA	TT	1946946102
SNP_P4_127623_181601	NW_004515886.1	Scaffold404	181601	AA	GG	1946946104
SNP_P4_127624_181602	NW_004515886.1	Scaffold404	181602	TT	AA	1946946106
SNP_P4_127625_181862	NW_004515886.1	Scaffold404	181862	GG	AA	1946946108
SNP_P4_127626_181878	NW_004515886.1	Scaffold404	181878	CC	GG	1946946110
SNP_P4_127627_183812	NW_004515886.1	Scaffold404	183812	TT	CC	1946946112
SNP_P4_127628_183911	NW_004515886.1	Scaffold404	183911	GG	CC	1946946114
SNP_P4_127629_183959	NW_004515886.1	Scaffold404	183959	CC	TT	1946946116
SNP_P4_127630_184064	NW_004515886.1	Scaffold404	184064	GG	CC	1946946118
SNP_P4_127631_184196	NW_004515886.1	Scaffold404	184196	AA	GG	1946946120
SNP_P4_127632_184227	NW_004515886.1	Scaffold404	184227	GG	AA	1946946122
SNP_P4_127633_184308	NW_004515886.1	Scaffold404	184308	TT	GG	1946946124
SNP_P4_127634_184368	NW_004515886.1	Scaffold404	184368	TT	CC	1946946126
SNP_P4_127635_184393	NW_004515886.1	Scaffold404	184393	TT	AA	1946946128
SNP_P4_127636_184423	NW_004515886.1	Scaffold404	184423	TT	CC	1946946130
SNP_P4_127637_185472	NW_004515886.1	Scaffold404	185472	AA	GG	1946946132
SNP_P4_127638_185507	NW_004515886.1	Scaffold404	185507	TT	CC	1946946134
SNP_P4_127639_185529	NW_004515886.1	Scaffold404	185529	CC	TT	1946946136
SNP_P4_127640_185699	NW_004515886.1	Scaffold404	185699	AA	GG	1946946138
SNP_P4_127641_185706	NW_004515886.1	Scaffold404	185706	GG	CC	1946946140
SNP_P4_127642_185765	NW_004515886.1	Scaffold404	185765	AA	GG	1946946142
SNP_P4_127643_185766	NW_004515886.1	Scaffold404	185766	TT	CC	1946946144
SNP_P4_127644_185783	NW_004515886.1	Scaffold404	185783	GG	TT	1946946146
SNP_P4_127645_185794	NW_004515886.1	Scaffold404	185794	CC	TT	1946946148
SNP_P4_127646_186000	NW_004515886.1	Scaffold404	186000	GG	TT	1946946150
SNP_P4_127647_186001	NW_004515886.1	Scaffold404	186001	TT	GG	1946946151
SNP_P4_127648_186050	NW_004515886.1	Scaffold404	186050	CC	TT	1946946152

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_127650_186130	NW_004515886.1	Scaffold404	186130	GG	AA	1946946154
SNP_P4_127652_204043	NW_004515886.1	Scaffold404	204043	AA	TT	1946946155
SNP_P4_127653_204110	NW_004515886.1	Scaffold404	204110	AA	TT	1946946156
SNP_P4_127654_204318	NW_004515886.1	Scaffold404	204318	GG	AA	1946946158
SNP_P4_127655_204329	NW_004515886.1	Scaffold404	204329	CC	TT	1946946160
SNP_P4_127656_204426	NW_004515886.1	Scaffold404	204426	CC	TT	1946946162
SNP_P4_127657_204993	NW_004515886.1	Scaffold404	204993	CC	TT	1946946164
SNP_P4_127658_230060	NW_004515886.1	Scaffold404	230060	AA	GG	1946946166
SNP_P4_127659_235191	NW_004515886.1	Scaffold404	235191	CC	TT	1946946168
SNP_P4_127662_263989	NW_004515886.1	Scaffold404	263989	TT	CC	1946946170
SNP_P4_127664_272141	NW_004515886.1	Scaffold404	272141	GG	AA	1946946172
SNP_P4_127665_279596	NW_004515886.1	Scaffold404	279596	GG	TT	1946946174
SNP_P4_127666_350108	NW_004515886.1	Scaffold404	350108	CC	TT	1946946176
SNP_P4_127667_350136	NW_004515886.1	Scaffold404	350136	AA	TT	1946946178
SNP_P4_127668_356780	NW_004515886.1	Scaffold404	356780	CC	TT	1946946180
SNP_P4_127669_357184	NW_004515886.1	Scaffold404	357184	CC	TT	1946946182
SNP_P4_127670_383883	NW_004515886.1	Scaffold404	383883	AA	GG	1946946184
SNP_P4_127671_383917	NW_004515886.1	Scaffold404	383917	GG	TT	1946946186
SNP_P4_127672_386406	NW_004515886.1	Scaffold404	386406	AA	GG	1946946188
SNP_P4_127673_386735	NW_004515886.1	Scaffold404	386735	GG	AA	1946946190
SNP_P4_127675_988	NW_004515887.1	Scaffold408	988	AA	TT	1946946192
SNP_P4_127676_1001	NW_004515887.1	Scaffold408	1001	TT	CC	1946946194
SNP_P4_127677_1195	NW_004515887.1	Scaffold408	1195	TT	AA	1946946196
SNP_P4_127678_1196	NW_004515887.1	Scaffold408	1196	GG	TT	1946946198
SNP_P4_127679_1446	NW_004515887.1	Scaffold408	1446	TT	CC	1946946200
SNP_P4_127680_1760	NW_004515887.1	Scaffold408	1760	CC	TT	1946946202
SNP_P4_127681_2527	NW_004515887.1	Scaffold408	2527	GG	AA	1946946205
SNP_P4_127682_2573	NW_004515887.1	Scaffold408	2573	AA	CC	1946946207
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SNP_P4_127684_3084	NW_004515887.1	Scaffold408	3084	AA	GG	1946946211
SNP_P4_127685_3231	NW_004515887.1	Scaffold408	3231	CC	AA	1946946213
SNP_P4_127687_3542	NW_004515887.1	Scaffold408	3542	TT	CC	1946946215
SNP_P4_127689_3615	NW_004515887.1	Scaffold408	3615	CC	AA	1946946217
SNP_P4_127690_7615	NW_004515887.1	Scaffold408	7615	TT	GG	1946946219
SNP_P4_127691_7621	NW_004515887.1	Scaffold408	7621	TT	CC	1946946221
SNP_P4_127692_7627	NW_004515887.1	Scaffold408	7627	GG	AA	1946946223
SNP_P4_127693_12211	NW_004515887.1	Scaffold408	12211	CC	GG	1946946225
SNP_P4_127694_12234	NW_004515887.1	Scaffold408	12234	TT	GG	1946946227
SNP_P4_127695_12448	NW_004515887.1	Scaffold408	12448	TT	AA	1946946229
SNP_P4_127696_12475	NW_004515887.1	Scaffold408	12475	GG	AA	1946946231
SNP_P4_127697_12490	NW_004515887.1	Scaffold408	12490	GG	AA	1946946233

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_127699_12706	NW_004515887.1	Scaffold408	12706	CC	TT	1946946237
SNP_P4_127700_19427	NW_004515887.1	Scaffold408	19427	TT	CC	1946946239
SNP_P4_127701_20453	NW_004515887.1	Scaffold408	20453	TT	CC	1946946241
SNP_P4_127702_20483	NW_004515887.1	Scaffold408	20483	GG	CC	1946946243
SNP_P4_127703_20490	NW_004515887.1	Scaffold408	20490	CC	TT	1946946245
SNP_P4_127704_20533	NW_004515887.1	Scaffold408	20533	AA	TT	1946946247
SNP_P4_127705_20548	NW_004515887.1	Scaffold408	20548	AA	GG	1946946249
SNP_P4_127706_20880	NW_004515887.1	Scaffold408	20880	CC	TT	1946946251
SNP_P4_127707_20940	NW_004515887.1	Scaffold408	20940	AA	GG	1946946253
SNP_P4_127708_20964	NW_004515887.1	Scaffold408	20964	AA	TT	1946946254
SNP_P4_127709_21200	NW_004515887.1	Scaffold408	21200	AA	GG	1946946255
SNP_P4_127710_21203	NW_004515887.1	Scaffold408	21203	AA	TT	1946946256
SNP_P4_127711_21239	NW_004515887.1	Scaffold408	21239	TT	CC	1946946257
SNP_P4_127712_21302	NW_004515887.1	Scaffold408	21302	TT	AA	1946946259
SNP_P4_127713_21323	NW_004515887.1	Scaffold408	21323	AA	GG	1946946261
SNP_P4_127716_45718	NW_004515887.1	Scaffold408	45718	AA	GG	1946946263
SNP_P4_127717_51031	NW_004515887.1	Scaffold408	51031	AA	GG	1946946265
SNP_P4_127719_84403	NW_004515887.1	Scaffold408	84403	TT	GG	1946946267
SNP_P4_127720_84413	NW_004515887.1	Scaffold408	84413	AA	CC	1946946269
SNP_P4_127721_84481	NW_004515887.1	Scaffold408	84481	AA	GG	1946946271
SNP_P4_127722_84652	NW_004515887.1	Scaffold408	84652	GG	CC	1946946273
SNP_P4_127723_84702	NW_004515887.1	Scaffold408	84702	AA	CC	1946946275
SNP_P4_127724_84715	NW_004515887.1	Scaffold408	84715	TT	CC	1946946277
SNP_P4_127725_84786	NW_004515887.1	Scaffold408	84786	CC	TT	1946946279
SNP_P4_127726_84814	NW_004515887.1	Scaffold408	84814	GG	AA	1946946281
SNP_P4_127727_84864	NW_004515887.1	Scaffold408	84864	TT	GG	1946946283
SNP_P4_127728_87158	NW_004515887.1	Scaffold408	87158	GG	TT	1946946285
SNP_P4_127729_92543	NW_004515887.1	Scaffold408	92543	TT	CC	1946946287
SNP_P4_127730_130476	NW_004515887.1	Scaffold408	130476	TT	CC	1946946289
SNP_P4_127731_130498	NW_004515887.1	Scaffold408	130498	GG	AA	1946946291
SNP_P4_127732_130914	NW_004515887.1	Scaffold408	130914	AA	GG	1946946293
SNP_P4_127733_130929	NW_004515887.1	Scaffold408	130929	TT	AA	1946946295
SNP_P4_127734_130936	NW_004515887.1	Scaffold408	130936	GG	TT	1946946297
SNP_P4_127737_131049	NW_004515887.1	Scaffold408	131049	GG	AA	1946946299
SNP_P4_127738_131124	NW_004515887.1	Scaffold408	131124	GG	AA	1946946301
SNP_P4_127739_131161	NW_004515887.1	Scaffold408	131161	AA	TT	1946946303
SNP_P4_127740_131180	NW_004515887.1	Scaffold408	131180	AA	GG	1946946305
SNP_P4_127741_131272	NW_004515887.1	Scaffold408	131272	TT	AA	1946946307
SNP_P4_127742_131308	NW_004515887.1	Scaffold408	131308	AA	TT	1946946309
SNP_P4_127743_131370	NW_004515887.1	Scaffold408	131370	GG	AA	1946946311
SNP_P4_127744_131371	NW_004515887.1	Scaffold408	131371	CC	TT	1946946313

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_127745_131372	NW_004515887.1	Scaffold408	131372	GG	CC	1946946315
SNP_P4_127746_131376	NW_004515887.1	Scaffold408	131376	TT	GG	1946946317
SNP_P4_127747_131379	NW_004515887.1	Scaffold408	131379	CC	TT	1946946319
SNP_P4_127748_2424	NW_004515888.1	Scaffold409	2424	CC	TT	1946946321
SNP_P4_127749_2483	NW_004515888.1	Scaffold409	2483	AA	GG	1946946323
SNP_P4_127750_2573	NW_004515888.1	Scaffold409	2573	TT	CC	1946946325
SNP_P4_127751_2604	NW_004515888.1	Scaffold409	2604	CC	TT	1946946327
SNP_P4_127753_2630	NW_004515888.1	Scaffold409	2630	TT	CC	1946946329
SNP_P4_127754_2631	NW_004515888.1	Scaffold409	2631	CC	AA	1946946331
SNP_P4_127755_2673	NW_004515888.1	Scaffold409	2673	GG	AA	1946946333
SNP_P4_127756_34728	NW_004515888.1	Scaffold409	34728	TT	AA	1946946335
SNP_P4_127757_34730	NW_004515888.1	Scaffold409	34730	TT	GG	1946946337
SNP_P4_127758_34743	NW_004515888.1	Scaffold409	34743	TT	AA	1946946339
SNP_P4_127760_36598	NW_004515888.1	Scaffold409	36598	CC	TT	1946946341
SNP_P4_127761_36607	NW_004515888.1	Scaffold409	36607	AA	GG	1946946343
SNP_P4_127762_36633	NW_004515888.1	Scaffold409	36633	TT	CC	1946946345
SNP_P4_127763_36644	NW_004515888.1	Scaffold409	36644	GG	AA	1946946347
SNP_P4_127764_36840	NW_004515888.1	Scaffold409	36840	CC	AA	1946946349
SNP_P4_127765_36882	NW_004515888.1	Scaffold409	36882	TT	AA	1946946351
SNP_P4_127767_35981	NW_004515889.1	Scaffold411	35981	CC	TT	1946946353
SNP_P4_127768_41661	NW_004515889.1	Scaffold411	41661	GG	AA	1946946355
SNP_P4_127769_41671	NW_004515889.1	Scaffold411	41671	CC	TT	1946946357
SNP_P4_127770_41678	NW_004515889.1	Scaffold411	41678	CC	TT	1946946359
SNP_P4_127771_41679	NW_004515889.1	Scaffold411	41679	GG	AA	1946946361
SNP_P4_127772_41681	NW_004515889.1	Scaffold411	41681	TT	GG	1946946363
SNP_P4_127773_41686	NW_004515889.1	Scaffold411	41686	TT	CC	1946946365
SNP_P4_127774_41687	NW_004515889.1	Scaffold411	41687	AA	GG	1946946367
SNP_P4_127775_41694	NW_004515889.1	Scaffold411	41694	AA	GG	1946946369
SNP_P4_127776_41703	NW_004515889.1	Scaffold411	41703	GG	AA	1946946371
SNP_P4_127777_41705	NW_004515889.1	Scaffold411	41705	TT	AA	1946946373
SNP_P4_127778_41738	NW_004515889.1	Scaffold411	41738	AA	GG	1946946375
SNP_P4_127779_41833	NW_004515889.1	Scaffold411	41833	GG	AA	1946946377
SNP_P4_127780_41887	NW_004515889.1	Scaffold411	41887	GG	AA	1946946379
SNP_P4_127781_42280	NW_004515889.1	Scaffold411	42280	TT	GG	1946946381
SNP_P4_127782_42475	NW_004515889.1	Scaffold411	42475	AA	GG	1946946383
SNP_P4_127783_42664	NW_004515889.1	Scaffold411	42664	GG	AA	1946946385
SNP_P4_127784_42714	NW_004515889.1	Scaffold411	42714	TT	CC	1946946387
SNP_P4_127785_42753	NW_004515889.1	Scaffold411	42753	TT	GG	1946946389
SNP_P4_127786_42790	NW_004515889.1	Scaffold411	42790	TT	AA	1946946391
SNP_P4_127787_42864	NW_004515889.1	Scaffold411	42864	TT	AA	1946946393
SNP_P4_127788_43191	NW_004515889.1	Scaffold411	43191	TT	GG	1946946395
SNP_P4_127789_60190	NW_004515889.1	Scaffold411	60190	TT	AA	1946946397

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_127790_73658	NW_004515889.1	Scaffold411	73658	GG	AA	1946946400
SNP_P4_127791_73664	NW_004515889.1	Scaffold411	73664	AA	TT	1946946402
SNP_P4_127792_73884	NW_004515889.1	Scaffold411	73884	AA	CC	1946946404
SNP_P4_127793_73886	NW_004515889.1	Scaffold411	73886	GG	AA	1946946406
SNP_P4_127794_73903	NW_004515889.1	Scaffold411	73903	TT	CC	1946946408
SNP_P4_127795_73913	NW_004515889.1	Scaffold411	73913	TT	CC	1946946410
SNP_P4_127796_74036	NW_004515889.1	Scaffold411	74036	AA	TT	1946946412
SNP_P4_127797_74044	NW_004515889.1	Scaffold411	74044	GG	AA	1946946414
SNP_P4_127798_74091	NW_004515889.1	Scaffold411	74091	GG	AA	1946946416
SNP_P4_127799_77170	NW_004515889.1	Scaffold411	77170	GG	CC	1946946418
SNP_P4_127800_93404	NW_004515889.1	Scaffold411	93404	TT	AA	1946946420
SNP_P4_127801_96029	NW_004515889.1	Scaffold411	96029	GG	CC	1946946422
SNP_P4_127802_96390	NW_004515889.1	Scaffold411	96390	AA	GG	1946946424
SNP_P4_127803_96423	NW_004515889.1	Scaffold411	96423	TT	CC	1946946426
SNP_P4_127804_120380	NW_004515889.1	Scaffold411	120380	CC	GG	1946946428
SNP_P4_127805_123365	NW_004515889.1	Scaffold411	123365	CC	TT	1946946431
SNP_P4_127806_123397	NW_004515889.1	Scaffold411	123397	AA	GG	1946946433
SNP_P4_127807_123463	NW_004515889.1	Scaffold411	123463	GG	CC	1946946435
SNP_P4_127808_124422	NW_004515889.1	Scaffold411	124422	CC	AA	1946946437
SNP_P4_127809_124488	NW_004515889.1	Scaffold411	124488	CC	TT	1946946439
SNP_P4_127810_124491	NW_004515889.1	Scaffold411	124491	CC	AA	1946946441
SNP_P4_127811_125407	NW_004515889.1	Scaffold411	125407	CC	AA	1946946443
SNP_P4_127812_125430	NW_004515889.1	Scaffold411	125430	AA	CC	1946946445
SNP_P4_127813_156919	NW_004515889.1	Scaffold411	156919	TT	CC	1946946447
SNP_P4_127814_156922	NW_004515889.1	Scaffold411	156922	GG	AA	1946946449
SNP_P4_127815_203938	NW_004515889.1	Scaffold411	203938	AA	GG	1946946451
SNP_P4_127816_230423	NW_004515889.1	Scaffold411	230423	AA	GG	1946946453
SNP_P4_127817_230913	NW_004515889.1	Scaffold411	230913	TT	GG	1946946455
SNP_P4_127818_231481	NW_004515889.1	Scaffold411	231481	TT	CC	1946946457
SNP_P4_127819_231671	NW_004515889.1	Scaffold411	231671	TT	GG	1946946460
SNP_P4_127820_231677	NW_004515889.1	Scaffold411	231677	AA	GG	1946946462
SNP_P4_127821_231680	NW_004515889.1	Scaffold411	231680	AA	GG	1946946464
SNP_P4_127822_231897	NW_004515889.1	Scaffold411	231897	AA	GG	1946946466
SNP_P4_127824_259232	NW_004515889.1	Scaffold411	259232	AA	GG	1946946468
SNP_P4_127825_259241	NW_004515889.1	Scaffold411	259241	CC	AA	1946946470
SNP_P4_127826_259253	NW_004515889.1	Scaffold411	259253	AA	TT	1946946472
SNP_P4_127827_259257	NW_004515889.1	Scaffold411	259257	GG	TT	1946946475
SNP_P4_127828_259308	NW_004515889.1	Scaffold411	259308	TT	CC	1946946477
SNP_P4_127829_282156	NW_004515889.1	Scaffold411	282156	GG	TT	1946946479
SNP_P4_127830_298109	NW_004515889.1	Scaffold411	298109	AA	CC	1946946481
SNP_P4_127831_298120	NW_004515889.1	Scaffold411	298120	GG	CC	1946946483
SNP_P4_127832_298443	NW_004515889.1	Scaffold411	298443	GG	AA	1946946485

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_127835_298615	NW_004515889.1	Scaffold411	298615	CC	GG	1946946489
SNP_P4_127836_308553	NW_004515889.1	Scaffold411	308553	AA	CC	1946946491
SNP_P4_127837_308572	NW_004515889.1	Scaffold411	308572	GG	AA	1946946493
SNP_P4_127838_308579	NW_004515889.1	Scaffold411	308579	GG	AA	1946946495
SNP_P4_127839_308765	NW_004515889.1	Scaffold411	308765	AA	GG	1946946497
SNP_P4_127840_308782	NW_004515889.1	Scaffold411	308782	AA	GG	1946946499
SNP_P4_127841_310204	NW_004515889.1	Scaffold411	310204	TT	CC	1946946501
SNP_P4_127842_323140	NW_004515889.1	Scaffold411	323140	TT	GG	1946946503
SNP_P4_127843_330057	NW_004515889.1	Scaffold411	330057	AA	TT	1946946505
SNP_P4_127844_334311	NW_004515889.1	Scaffold411	334311	TT	CC	1946946507
SNP_P4_127845_334524	NW_004515889.1	Scaffold411	334524	TT	CC	1946946509
SNP_P4_127846_335195	NW_004515889.1	Scaffold411	335195	AA	TT	1946946511
SNP_P4_127847_335376	NW_004515889.1	Scaffold411	335376	TT	AA	1946946513
SNP_P4_127848_336425	NW_004515889.1	Scaffold411	336425	CC	AA	1946946515
SNP_P4_127850_353468	NW_004515889.1	Scaffold411	353468	GG	AA	1946946517
SNP_P4_127851_369200	NW_004515889.1	Scaffold411	369200	GG	AA	1946946519
SNP_P4_127852_369214	NW_004515889.1	Scaffold411	369214	CC	TT	1946946521
SNP_P4_127853_369239	NW_004515889.1	Scaffold411	369239	GG	AA	1946946523
SNP_P4_127854_369305	NW_004515889.1	Scaffold411	369305	TT	CC	1946946526
SNP_P4_127855_369336	NW_004515889.1	Scaffold411	369336	TT	CC	1946946528
SNP_P4_127856_369366	NW_004515889.1	Scaffold411	369366	AA	GG	1946946530
SNP_P4_127857_369585	NW_004515889.1	Scaffold411	369585	CC	TT	1946946532
SNP_P4_127859_377587	NW_004515889.1	Scaffold411	377587	CC	TT	1946946534
SNP_P4_127860_377831	NW_004515889.1	Scaffold411	377831	CC	TT	1946946536
SNP_P4_127861_377884	NW_004515889.1	Scaffold411	377884	TT	CC	1946946538
SNP_P4_127862_377888	NW_004515889.1	Scaffold411	377888	CC	TT	1946946540
SNP_P4_127863_377893	NW_004515889.1	Scaffold411	377893	GG	AA	1946946542
SNP_P4_127864_377942	NW_004515889.1	Scaffold411	377942	TT	CC	1946946544
SNP_P4_127865_422306	NW_004515889.1	Scaffold411	422306	CC	TT	1946946546
SNP_P4_127866_429609	NW_004515889.1	Scaffold411	429609	CC	GG	1946946548
SNP_P4_127867_429620	NW_004515889.1	Scaffold411	429620	TT	CC	1946946550
SNP_P4_127868_429907	NW_004515889.1	Scaffold411	429907	CC	TT	1946946552
SNP_P4_127869_429926	NW_004515889.1	Scaffold411	429926	GG	AA	1946946554
SNP_P4_127871_436057	NW_004515889.1	Scaffold411	436057	TT	CC	1946946556
SNP_P4_127872_436537	NW_004515889.1	Scaffold411	436537	CC	GG	1946946558
SNP_P4_127873_437498	NW_004515889.1	Scaffold411	437498	TT	AA	1946946560
SNP_P4_127874_437524	NW_004515889.1	Scaffold411	437524	CC	AA	1946946562
SNP_P4_127875_4645	NW_004515890.1	Scaffold413	4645	TT	CC	1946946564
SNP_P4_127876_4915	NW_004515890.1	Scaffold413	4915	GG	AA	1946946566
SNP_P4_127877_6122	NW_004515890.1	Scaffold413	6122	AA	CC	1946946568
SNP_P4_127878_6509	NW_004515890.1	Scaffold413	6509	AA	GG	1946946570

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_127880_7235	NW_004515890.1	Scaffold413	7235	AA	GG	1946946574
SNP_P4_127881_7362	NW_004515890.1	Scaffold413	7362	CC	GG	1946946576
SNP_P4_127882_7377	NW_004515890.1	Scaffold413	7377	TT	CC	1946946578
SNP_P4_127883_7454	NW_004515890.1	Scaffold413	7454	GG	AA	1946946580
SNP_P4_127884_7482	NW_004515890.1	Scaffold413	7482	TT	CC	1946946582
SNP_P4_127885_7721	NW_004515890.1	Scaffold413	7721	TT	CC	1946946584
SNP_P4_127886_4008	NW_004515891.1	Scaffold414	4008	TT	CC	1946946586
SNP_P4_127887_5334	NW_004515891.1	Scaffold414	5334	AA	TT	1946946588
SNP_P4_127888_5363	NW_004515891.1	Scaffold414	5363	GG	TT	1946946590
SNP_P4_127889_5501	NW_004515891.1	Scaffold414	5501	GG	AA	1946946592
SNP_P4_127890_5513	NW_004515891.1	Scaffold414	5513	GG	TT	1946946594
SNP_P4_127891_5660	NW_004515891.1	Scaffold414	5660	AA	CC	1946946596
SNP_P4_127892_6783	NW_004515891.1	Scaffold414	6783	TT	AA	1946946598
SNP_P4_127893_6785	NW_004515891.1	Scaffold414	6785	AA	GG	1946946600
SNP_P4_127894_6787	NW_004515891.1	Scaffold414	6787	TT	AA	1946946602
SNP_P4_127895_6790	NW_004515891.1	Scaffold414	6790	TT	AA	1946946604
SNP_P4_127896_6791	NW_004515891.1	Scaffold414	6791	GG	CC	1946946606
SNP_P4_127897_6792	NW_004515891.1	Scaffold414	6792	TT	AA	1946946608
SNP_P4_127898_6795	NW_004515891.1	Scaffold414	6795	TT	AA	1946946610
SNP_P4_127899_6797	NW_004515891.1	Scaffold414	6797	CC	TT	1946946613
SNP_P4_127900_6799	NW_004515891.1	Scaffold414	6799	TT	AA	1946946615
SNP_P4_127901_6827	NW_004515891.1	Scaffold414	6827	AA	GG	1946946617
SNP_P4_127902_7055	NW_004515891.1	Scaffold414	7055	TT	CC	1946946619
SNP_P4_127903_8072	NW_004515891.1	Scaffold414	8072	TT	AA	1946946621
SNP_P4_127904_8446	NW_004515891.1	Scaffold414	8446	AA	TT	1946946623
SNP_P4_127905_8447	NW_004515891.1	Scaffold414	8447	GG	AA	1946946625
SNP_P4_127906_8453	NW_004515891.1	Scaffold414	8453	CC	AA	1946946627
SNP_P4_127907_8512	NW_004515891.1	Scaffold414	8512	GG	AA	1946946629
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SNP_P4_127909_8722	NW_004515891.1	Scaffold414	8722	GG	CC	1946946633
SNP_P4_127910_8735	NW_004515891.1	Scaffold414	8735	TT	AA	1946946635
SNP_P4_127911_8747	NW_004515891.1	Scaffold414	8747	TT	GG	1946946637
SNP_P4_127912_17573	NW_004515891.1	Scaffold414	17573	TT	CC	1946946639
SNP_P4_127913_21862	NW_004515891.1	Scaffold414	21862	AA	TT	1946946641
SNP_P4_127915_22109	NW_004515891.1	Scaffold414	22109	CC	TT	1946946644
SNP_P4_127916_22233	NW_004515891.1	Scaffold414	22233	TT	CC	1946946646
SNP_P4_127917_22252	NW_004515891.1	Scaffold414	22252	CC	AA	1946946648
SNP_P4_127918_22268	NW_004515891.1	Scaffold414	22268	GG	TT	1946946650
SNP_P4_127919_22270	NW_004515891.1	Scaffold414	22270	AA	TT	1946946652
SNP_P4_127920_22299	NW_004515891.1	Scaffold414	22299	GG	AA	1946946654
SNP_P4_127921_22428	NW_004515891.1	Scaffold414	22428	GG	AA	1946946656

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_127923_23064	NW_004515891.1	Scaffold414	23064	AA	GG	1946946660
SNP_P4_127924_23254	NW_004515891.1	Scaffold414	23254	CC	AA	1946946662
SNP_P4_127925_37429	NW_004515891.1	Scaffold414	37429	CC	TT	1946946664
SNP_P4_127926_42053	NW_004515891.1	Scaffold414	42053	TT	CC	1946946665
SNP_P4_127927_53470	NW_004515891.1	Scaffold414	53470	TT	CC	1946946667
SNP_P4_127928_53866	NW_004515891.1	Scaffold414	53866	GG	AA	1946946669
SNP_P4_127929_53988	NW_004515891.1	Scaffold414	53988	AA	GG	1946946671
SNP_P4_127930_54097	NW_004515891.1	Scaffold414	54097	TT	CC	1946946673
SNP_P4_127931_54136	NW_004515891.1	Scaffold414	54136	TT	AA	1946946675
SNP_P4_127932_54258	NW_004515891.1	Scaffold414	54258	CC	TT	1946946677
SNP_P4_127933_631	NW_004515892.1	Scaffold415	631	GG	AA	1946946679
SNP_P4_127934_993	NW_004515892.1	Scaffold415	993	TT	CC	1946946681
SNP_P4_127935_1013	NW_004515892.1	Scaffold415	1013	TT	AA	1946946683
SNP_P4_127936_1041	NW_004515892.1	Scaffold415	1041	GG	AA	1946946685
SNP_P4_127937_1322	NW_004515892.1	Scaffold415	1322	TT	CC	1946946687
SNP_P4_127938_1384	NW_004515892.1	Scaffold415	1384	TT	CC	1946946689
SNP_P4_127939_1413	NW_004515892.1	Scaffold415	1413	AA	GG	1946946691
SNP_P4_127940_9372	NW_004515892.1	Scaffold415	9372	AA	CC	1946946693
SNP_P4_127941_9385	NW_004515892.1	Scaffold415	9385	AA	GG	1946946695
SNP_P4_127942_9634	NW_004515892.1	Scaffold415	9634	AA	TT	1946946697
SNP_P4_127944_9549	NW_004515893.1	Scaffold418	9549	GG	AA	1946946699
SNP_P4_127946_9659	NW_004515893.1	Scaffold418	9659	GG	CC	1946946701
SNP_P4_127947_9660	NW_004515893.1	Scaffold418	9660	AA	GG	1946946703
SNP_P4_127948_9724	NW_004515893.1	Scaffold418	9724	CC	AA	1946946705
SNP_P4_127949_10060	NW_004515893.1	Scaffold418	10060	AA	TT	1946946707
SNP_P4_127950_10076	NW_004515893.1	Scaffold418	10076	AA	GG	1946946709
SNP_P4_127951_32173	NW_004515893.1	Scaffold418	32173	AA	CC	1946946711
SNP_P4_127953_38051	NW_004515893.1	Scaffold418	38051	CC	TT	1946946713
SNP_P4_127954_41482	NW_004515893.1	Scaffold418	41482	CC	TT	1946946715
SNP_P4_127955_41490	NW_004515893.1	Scaffold418	41490	CC	TT	1946946717
SNP_P4_127956_50487	NW_004515893.1	Scaffold418	50487	TT	AA	1946946719
SNP_P4_127959_71108	NW_004515893.1	Scaffold418	71108	CC	TT	1946946722
SNP_P4_127960_81786	NW_004515893.1	Scaffold418	81786	CC	TT	1946946724
SNP_P4_127961_81787	NW_004515893.1	Scaffold418	81787	CC	GG	1946946726
SNP_P4_127962_82022	NW_004515893.1	Scaffold418	82022	CC	TT	1946946728
SNP_P4_127963_82032	NW_004515893.1	Scaffold418	82032	CC	AA	1946946730
SNP_P4_127964_82285	NW_004515893.1	Scaffold418	82285	AA	GG	1946946732
SNP_P4_127965_82343	NW_004515893.1	Scaffold418	82343	TT	CC	1946946734
SNP_P4_127966_82367	NW_004515893.1	Scaffold418	82367	TT	CC	1946946736
SNP_P4_127967_82546	NW_004515893.1	Scaffold418	82546	TT	AA	1946946738
SNP_P4_127968_82652	NW_004515893.1	Scaffold418	82652	AA	GG	1946946740

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_127969_82748	NW_004515893.1	Scaffold418	82748	GG	TT	1946946742
SNP_P4_127970_82753	NW_004515893.1	Scaffold418	82753	AA	TT	1946946744
SNP_P4_127971_82794	NW_004515893.1	Scaffold418	82794	GG	TT	1946946746
SNP_P4_127972_82802	NW_004515893.1	Scaffold418	82802	TT	CC	1946946748
SNP_P4_127973_82863	NW_004515893.1	Scaffold418	82863	AA	CC	1946946750
SNP_P4_127974_83126	NW_004515893.1	Scaffold418	83126	CC	TT	1946946752
SNP_P4_127975_83127	NW_004515893.1	Scaffold418	83127	AA	GG	1946946754
SNP_P4_127976_83135	NW_004515893.1	Scaffold418	83135	TT	AA	1946946756
SNP_P4_127977_83163	NW_004515893.1	Scaffold418	83163	TT	CC	1946946759
SNP_P4_127978_83179	NW_004515893.1	Scaffold418	83179	AA	CC	1946946761
SNP_P4_127979_83195	NW_004515893.1	Scaffold418	83195	AA	GG	1946946762
SNP_P4_127980_83230	NW_004515893.1	Scaffold418	83230	TT	CC	1946946763
SNP_P4_127981_113876	NW_004515893.1	Scaffold418	113876	TT	CC	1946946764
SNP_P4_127982_136032	NW_004515893.1	Scaffold418	136032	GG	AA	1946946765
SNP_P4_127983_138167	NW_004515893.1	Scaffold418	138167	CC	GG	1946946766
SNP_P4_127984_138307	NW_004515893.1	Scaffold418	138307	TT	CC	1946946767
SNP_P4_127985_141157	NW_004515893.1	Scaffold418	141157	AA	GG	1946946768
SNP_P4_127986_141383	NW_004515893.1	Scaffold418	141383	TT	CC	1946946769
SNP_P4_127987_142035	NW_004515893.1	Scaffold418	142035	AA	GG	1946946770
SNP_P4_127988_148513	NW_004515893.1	Scaffold418	148513	TT	CC	1946946771
SNP_P4_127991_1015	NW_004515894.1	Scaffold419	1015	CC	TT	1946946772
SNP_P4_127993_31121	NW_004515894.1	Scaffold419	31121	GG	AA	1946946773
SNP_P4_127994_95392	NW_004515894.1	Scaffold419	95392	AA	TT	1946946774
SNP_P4_127996_97864	NW_004515894.1	Scaffold419	97864	CC	AA	1946946775
SNP_P4_127997_117616	NW_004515894.1	Scaffold419	117616	GG	AA	1946946776
SNP_P4_128000_148591	NW_004515894.1	Scaffold419	148591	CC	TT	1946946777
SNP_P4_128004_219681	NW_004515894.1	Scaffold419	219681	AA	TT	1946946778
SNP_P4_128005_219694	NW_004515894.1	Scaffold419	219694	CC	TT	1946946779
SNP_P4_128006_239879	NW_004515894.1	Scaffold419	239879	GG	AA	1946946780
SNP_P4_128007_239880	NW_004515894.1	Scaffold419	239880	TT	AA	1946946781
SNP_P4_128008_242216	NW_004515894.1	Scaffold419	242216	GG	TT	1946946782
SNP_P4_128009_244179	NW_004515894.1	Scaffold419	244179	TT	GG	1946946783
SNP_P4_128010_244799	NW_004515894.1	Scaffold419	244799	AA	TT	1946946784
SNP_P4_128011_244820	NW_004515894.1	Scaffold419	244820	AA	TT	1946946785
SNP_P4_128014_315199	NW_004515894.1	Scaffold419	315199	CC	TT	1946946786
SNP_P4_128015_323709	NW_004515894.1	Scaffold419	323709	TT	CC	1946946787
SNP_P4_128016_334077	NW_004515894.1	Scaffold419	334077	CC	TT	1946946788
SNP_P4_128017_340990	NW_004515894.1	Scaffold419	340990	GG	TT	1946946789
SNP_P4_128018_341215	NW_004515894.1	Scaffold419	341215	TT	AA	1946946790
SNP_P4_128019_341256	NW_004515894.1	Scaffold419	341256	TT	CC	1946946791
SNP_P4_128020_8585	NW_004515895.1	Scaffold420	8585	TT	GG	1946946792
SNP_P4_128021_8630	NW_004515895.1	Scaffold420	8630	AA	TT	1946946793

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_128023_64660	NW_004515895.1	Scaffold420	64660	TT	GG	1946946795
SNP_P4_128024_69568	NW_004515895.1	Scaffold420	69568	AA	GG	1946946796
SNP_P4_128026_69678	NW_004515895.1	Scaffold420	69678	GG	TT	1946946797
SNP_P4_128027_69690	NW_004515895.1	Scaffold420	69690	CC	TT	1946946798
SNP_P4_128028_69786	NW_004515895.1	Scaffold420	69786	AA	GG	1946946799
SNP_P4_128029_69922	NW_004515895.1	Scaffold420	69922	AA	GG	1946946800
SNP_P4_128030_69934	NW_004515895.1	Scaffold420	69934	AA	GG	1946946801
SNP_P4_128031_70000	NW_004515895.1	Scaffold420	70000	AA	GG	1946946802
SNP_P4_128032_70035	NW_004515895.1	Scaffold420	70035	TT	GG	1946946803
SNP_P4_128034_78364	NW_004515895.1	Scaffold420	78364	AA	CC	1946946804
SNP_P4_128035_78369	NW_004515895.1	Scaffold420	78369	TT	CC	1946946805
SNP_P4_128036_78464	NW_004515895.1	Scaffold420	78464	TT	GG	1946946806
SNP_P4_128037_78514	NW_004515895.1	Scaffold420	78514	TT	CC	1946946807
SNP_P4_128038_78522	NW_004515895.1	Scaffold420	78522	AA	GG	1946946808
SNP_P4_128039_78748	NW_004515895.1	Scaffold420	78748	CC	TT	1946946809
SNP_P4_128040_78777	NW_004515895.1	Scaffold420	78777	AA	GG	1946946810
SNP_P4_128041_78850	NW_004515895.1	Scaffold420	78850	GG	AA	1946946811
SNP_P4_128043_87244	NW_004515895.1	Scaffold420	87244	AA	GG	1946946812
SNP_P4_128044_87263	NW_004515895.1	Scaffold420	87263	TT	AA	1946946813
SNP_P4_128045_87880	NW_004515895.1	Scaffold420	87880	TT	CC	1946946814
SNP_P4_128046_87896	NW_004515895.1	Scaffold420	87896	TT	AA	1946946815
SNP_P4_128047_87993	NW_004515895.1	Scaffold420	87993	CC	TT	1946946816
SNP_P4_128048_92812	NW_004515895.1	Scaffold420	92812	GG	CC	1946946817
SNP_P4_128049_95041	NW_004515895.1	Scaffold420	95041	GG	TT	1946946818
SNP_P4_128050_141360	NW_004515895.1	Scaffold420	141360	TT	GG	1946946819
SNP_P4_128051_141362	NW_004515895.1	Scaffold420	141362	CC	AA	1946946820
SNP_P4_128052_182226	NW_004515895.1	Scaffold420	182226	GG	CC	1946946821
SNP_P4_128053_203907	NW_004515895.1	Scaffold420	203907	GG	TT	1946946822
SNP_P4_128054_206306	NW_004515895.1	Scaffold420	206306	AA	GG	1946946824
SNP_P4_128055_210375	NW_004515895.1	Scaffold420	210375	AA	CC	1946946826
SNP_P4_128057_211032	NW_004515895.1	Scaffold420	211032	TT	CC	1946946828
SNP_P4_128058_211051	NW_004515895.1	Scaffold420	211051	GG	TT	1946946830
SNP_P4_128059_215849	NW_004515895.1	Scaffold420	215849	TT	CC	1946946832
SNP_P4_128060_215866	NW_004515895.1	Scaffold420	215866	CC	TT	1946946834
SNP_P4_128062_224159	NW_004515895.1	Scaffold420	224159	TT	AA	1946946836
SNP_P4_128063_224179	NW_004515895.1	Scaffold420	224179	AA	CC	1946946838
SNP_P4_128064_249310	NW_004515895.1	Scaffold420	249310	CC	TT	1946946840
SNP_P4_128065_249376	NW_004515895.1	Scaffold420	249376	TT	CC	1946946842
SNP_P4_128066_249523	NW_004515895.1	Scaffold420	249523	AA	CC	1946946844
SNP_P4_128067_249710	NW_004515895.1	Scaffold420	249710	TT	CC	1946946846
SNP_P4_128068_249829	NW_004515895.1	Scaffold420	249829	AA	GG	1946946848

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_128070_250355	NW_004515895.1	Scaffold420	250355	AA	CC	1946946852
SNP_P4_128072_266376	NW_004515895.1	Scaffold420	266376	CC	GG	1946946855
SNP_P4_128073_266401	NW_004515895.1	Scaffold420	266401	AA	CC	1946946857
SNP_P4_128074_266407	NW_004515895.1	Scaffold420	266407	AA	GG	1946946859
SNP_P4_128075_266432	NW_004515895.1	Scaffold420	266432	GG	AA	1946946861
SNP_P4_128076_266572	NW_004515895.1	Scaffold420	266572	TT	GG	1946946863
SNP_P4_128077_266680	NW_004515895.1	Scaffold420	266680	CC	AA	1946946865
SNP_P4_128078_266772	NW_004515895.1	Scaffold420	266772	GG	TT	1946946867
SNP_P4_128079_268711	NW_004515895.1	Scaffold420	268711	AA	GG	1946946869
SNP_P4_128080_270994	NW_004515895.1	Scaffold420	270994	GG	AA	1946946871
SNP_P4_128081_299199	NW_004515895.1	Scaffold420	299199	TT	CC	1946946873
SNP_P4_128082_324411	NW_004515895.1	Scaffold420	324411	TT	GG	1946946875
SNP_P4_128083_324438	NW_004515895.1	Scaffold420	324438	TT	CC	1946946877
SNP_P4_128084_324484	NW_004515895.1	Scaffold420	324484	AA	CC	1946946879
SNP_P4_128085_324523	NW_004515895.1	Scaffold420	324523	AA	GG	1946946881
SNP_P4_128086_324530	NW_004515895.1	Scaffold420	324530	TT	CC	1946946883
SNP_P4_128087_324616	NW_004515895.1	Scaffold420	324616	AA	GG	1946946885
SNP_P4_128088_324631	NW_004515895.1	Scaffold420	324631	TT	AA	1946946887
SNP_P4_128089_324662	NW_004515895.1	Scaffold420	324662	TT	CC	1946946889
SNP_P4_128090_324713	NW_004515895.1	Scaffold420	324713	AA	GG	1946946891
SNP_P4_128091_324872	NW_004515895.1	Scaffold420	324872	AA	GG	1946946893
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SNP_P4_128095_1163	NW_004515896.1	Scaffold421_2	1163	GG	AA	1946946899
SNP_P4_128096_43117	NW_004515896.1	Scaffold421_2	43117	CC	TT	1946946901
SNP_P4_128097_43119	NW_004515896.1	Scaffold421_2	43119	CC	TT	1946946903
SNP_P4_128098_45484	NW_004515896.1	Scaffold421_2	45484	TT	AA	1946946905
SNP_P4_128099_45548	NW_004515896.1	Scaffold421_2	45548	CC	TT	1946946907
SNP_P4_128100_45557	NW_004515896.1	Scaffold421_2	45557	AA	TT	1946946909
SNP_P4_128101_45599	NW_004515896.1	Scaffold421_2	45599	AA	GG	1946946911
SNP_P4_128102_45620	NW_004515896.1	Scaffold421_2	45620	TT	AA	1946946913
SNP_P4_128103_45648	NW_004515896.1	Scaffold421_2	45648	AA	GG	1946946915
SNP_P4_128104_45827	NW_004515896.1	Scaffold421_2	45827	TT	AA	1946946917
SNP_P4_128105_45857	NW_004515896.1	Scaffold421_2	45857	AA	CC	1946946919
SNP_P4_128106_45862	NW_004515896.1	Scaffold421_2	45862	CC	AA	1946946921
SNP_P4_128108_45899	NW_004515896.1	Scaffold421_2	45899	AA	GG	1946946923
SNP_P4_128109_58585	NW_004515896.1	Scaffold421_2	58585	GG	AA	1946946925
SNP_P4_128111_77969	NW_004515896.1	Scaffold421_2	77969	GG	AA	1946946927
SNP_P4_128113_149868	NW_004515896.1	Scaffold421_2	149868	TT	CC	1946946929
SNP_P4_128114_162679	NW_004515896.1	Scaffold421_2	162679	TT	CC	1946946931
SNP_P4_128115_165179	NW_004515896.1	Scaffold421_2	165179	AA	GG	1946946933

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_128117_176080	NW_004515896.1	Scaffold421_2	176080	TT	AA	1946946937
SNP_P4_128118_200655	NW_004515896.1	Scaffold421_2	200655	AA	GG	1946946939
SNP_P4_128119_232685	NW_004515896.1	Scaffold421_2	232685	AA	GG	1946946941
SNP_P4_128122_249626	NW_004515896.1	Scaffold421_2	249626	CC	TT	1946946943
SNP_P4_128123_249627	NW_004515896.1	Scaffold421_2	249627	AA	GG	1946946945
SNP_P4_128124_249638	NW_004515896.1	Scaffold421_2	249638	CC	TT	1946946947
SNP_P4_128125_249715	NW_004515896.1	Scaffold421_2	249715	CC	TT	1946946949
SNP_P4_128126_249738	NW_004515896.1	Scaffold421_2	249738	GG	AA	1946946951
SNP_P4_128127_249740	NW_004515896.1	Scaffold421_2	249740	TT	CC	1946946953
SNP_P4_128128_249830	NW_004515896.1	Scaffold421_2	249830	TT	CC	1946946955
SNP_P4_128129_249849	NW_004515896.1	Scaffold421_2	249849	AA	CC	1946946957
SNP_P4_128130_249853	NW_004515896.1	Scaffold421_2	249853	TT	CC	1946946959
SNP_P4_128131_249871	NW_004515896.1	Scaffold421_2	249871	TT	CC	1946946961
SNP_P4_128132_249872	NW_004515896.1	Scaffold421_2	249872	AA	GG	1946946963
SNP_P4_128133_249911	NW_004515896.1	Scaffold421_2	249911	TT	GG	1946946965
SNP_P4_128134_249958	NW_004515896.1	Scaffold421_2	249958	AA	GG	1946946967
SNP_P4_128135_249969	NW_004515896.1	Scaffold421_2	249969	AA	GG	1946946969
SNP_P4_128136_250044	NW_004515896.1	Scaffold421_2	250044	AA	CC	1946946971
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SNP_P4_128139_274852	NW_004515896.1	Scaffold421_2	274852	GG	AA	1946946977
SNP_P4_128140_275252	NW_004515896.1	Scaffold421_2	275252	AA	GG	1946946979
SNP_P4_128141_275273	NW_004515896.1	Scaffold421_2	275273	GG	TT	1946946981
SNP_P4_128142_275328	NW_004515896.1	Scaffold421_2	275328	TT	CC	1946946983
SNP_P4_128143_306072	NW_004515896.1	Scaffold421_2	306072	TT	GG	1946946985
SNP_P4_128144_311962	NW_004515896.1	Scaffold421_2	311962	TT	GG	1946946987
SNP_P4_128145_311990	NW_004515896.1	Scaffold421_2	311990	CC	AA	1946946989
SNP_P4_128146_318808	NW_004515896.1	Scaffold421_2	318808	GG	AA	1946946991
SNP_P4_128147_318845	NW_004515896.1	Scaffold421_2	318845	GG	TT	1946946993
SNP_P4_128148_323165	NW_004515896.1	Scaffold421_2	323165	TT	GG	1946946995
SNP_P4_128149_323553	NW_004515896.1	Scaffold421_2	323553	AA	GG	1946946997
SNP_P4_128150_349225	NW_004515896.1	Scaffold421_2	349225	CC	TT	1946946999
SNP_P4_128151_349612	NW_004515896.1	Scaffold421_2	349612	GG	AA	1946947001
SNP_P4_128152_350173	NW_004515896.1	Scaffold421_2	350173	AA	GG	1946947003
SNP_P4_128153_352658	NW_004515896.1	Scaffold421_2	352658	CC	TT	1946947005
SNP_P4_128154_352675	NW_004515896.1	Scaffold421_2	352675	AA	GG	1946947007
SNP_P4_128155_355031	NW_004515896.1	Scaffold421_2	355031	GG	AA	1946947009
SNP_P4_128156_363813	NW_004515896.1	Scaffold421_2	363813	TT	CC	1946947011
SNP_P4_128157_374873	NW_004515896.1	Scaffold421_2	374873	AA	GG	1946947014
SNP_P4_128158_374874	NW_004515896.1	Scaffold421_2	374874	GG	AA	1946947016
SNP_P4_128159_396443	NW_004515896.1	Scaffold421_2	396443	TT	CC	1946947018

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SNP_P4_128161_397757	NW_004515896.1	Scaffold421_2	397757	TT	GG	1946947022
SNP_P4_128162_412576	NW_004515896.1	Scaffold421_2	412576	GG	CC	1946947024
SNP_P4_128163_414292	NW_004515896.1	Scaffold421_2	414292	TT	AA	1946947026
SNP_P4_128164_416811	NW_004515896.1	Scaffold421_2	416811	GG	AA	1946947028
SNP_P4_128165_416998	NW_004515896.1	Scaffold421_2	416998	GG	AA	1946947030
SNP_P4_128166_417764	NW_004515896.1	Scaffold421_2	417764	TT	CC	1946947032
SNP_P4_128167_421654	NW_004515896.1	Scaffold421_2	421654	CC	AA	1946947034
SNP_P4_128168_444853	NW_004515896.1	Scaffold421_2	444853	AA	GG	1946947036
SNP_P4_128169_447754	NW_004515896.1	Scaffold421_2	447754	GG	AA	1946947038
SNP_P4_128170_447986	NW_004515896.1	Scaffold421_2	447986	CC	AA	1946947040
SNP_P4_128171_448625	NW_004515896.1	Scaffold421_2	448625	TT	GG	1946947042
SNP_P4_128172_455690	NW_004515896.1	Scaffold421_2	455690	AA	GG	1946947044
SNP_P4_128174_456068	NW_004515896.1	Scaffold421_2	456068	AA	TT	1946947046
SNP_P4_128175_462450	NW_004515896.1	Scaffold421_2	462450	AA	TT	1946947048
SNP_P4_128176_465639	NW_004515896.1	Scaffold421_2	465639	AA	GG	1946947050
SNP_P4_128177_468925	NW_004515896.1	Scaffold421_2	468925	TT	CC	1946947052
SNP_P4_128178_488781	NW_004515896.1	Scaffold421_2	488781	CC	TT	1946947054
SNP_P4_128179_501581	NW_004515896.1	Scaffold421_2	501581	AA	GG	1946947056
SNP_P4_128180_501599	NW_004515896.1	Scaffold421_2	501599	TT	GG	1946947058
SNP_P4_128181_501630	NW_004515896.1	Scaffold421_2	501630	TT	CC	1946947060
SNP_P4_128184_525737	NW_004515896.1	Scaffold421_2	525737	AA	GG	1946947062
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SNP_P4_128186_571933	NW_004515896.1	Scaffold421_2	571933	CC	AA	1946947066
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SNP_P4_128188_581410	NW_004515896.1	Scaffold421_2	581410	TT	CC	1946947070
SNP_P4_128189_581782	NW_004515896.1	Scaffold421_2	581782	GG	AA	1946947072
SNP_P4_128190_581794	NW_004515896.1	Scaffold421_2	581794	AA	CC	1946947074
SNP_P4_128191_581851	NW_004515896.1	Scaffold421_2	581851	TT	CC	1946947076
SNP_P4_128192_581884	NW_004515896.1	Scaffold421_2	581884	AA	TT	1946947078
SNP_P4_128193_581961	NW_004515896.1	Scaffold421_2	581961	GG	AA	1946947080
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SNP_P4_128196_582146	NW_004515896.1	Scaffold421_2	582146	CC	AA	1946947086
SNP_P4_128197_582160	NW_004515896.1	Scaffold421_2	582160	AA	TT	1946947088
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SNP_P4_128202_594102	NW_004515896.1	Scaffold421_2	594102	GG	AA	1946947098
SNP_P4_128203_597535	NW_004515896.1	Scaffold421_2	597535	AA	CC	1946947100
SNP_P4_128204_597542	NW_004515896.1	Scaffold421_2	597542	AA	CC	1946947102

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_128207_597801	NW_004515896.1	Scaffold421_2	597801	CC	TT	1946947108
SNP_P4_128208_597864	NW_004515896.1	Scaffold421_2	597864	TT	CC	1946947110
SNP_P4_128209_597883	NW_004515896.1	Scaffold421_2	597883	AA	TT	1946947112
SNP_P4_128210_597904	NW_004515896.1	Scaffold421_2	597904	TT	AA	1946947114
SNP_P4_128211_598054	NW_004515896.1	Scaffold421_2	598054	CC	TT	1946947116
SNP_P4_128212_598055	NW_004515896.1	Scaffold421_2	598055	AA	GG	1946947118
SNP_P4_128213_598065	NW_004515896.1	Scaffold421_2	598065	CC	AA	1946947120
SNP_P4_128215_66	NW_004515897.1	Scaffold421_1	66	CC	TT	1946947122
SNP_P4_128216_284	NW_004515897.1	Scaffold421_1	284	AA	CC	1946947124
SNP_P4_128217_300	NW_004515897.1	Scaffold421_1	300	CC	AA	1946947127
SNP_P4_128218_2616	NW_004515897.1	Scaffold421_1	2616	GG	AA	1946947129
SNP_P4_128219_2835	NW_004515897.1	Scaffold421_1	2835	AA	CC	1946947131
SNP_P4_128221_2945	NW_004515897.1	Scaffold421_1	2945	GG	CC	1946947133
SNP_P4_128222_3012	NW_004515897.1	Scaffold421_1	3012	CC	AA	1946947135
SNP_P4_128223_3033	NW_004515897.1	Scaffold421_1	3033	CC	TT	1946947137
SNP_P4_128224_3227	NW_004515897.1	Scaffold421_1	3227	GG	AA	1946947139
SNP_P4_128225_3290	NW_004515897.1	Scaffold421_1	3290	CC	GG	1946947141
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SNP_P4_128229_4929	NW_004515897.1	Scaffold421_1	4929	GG	AA	1946947147
SNP_P4_128231_6244	NW_004515897.1	Scaffold421_1	6244	CC	TT	1946947149
SNP_P4_128232_6328	NW_004515897.1	Scaffold421_1	6328	CC	TT	1946947151
SNP_P4_128233_18035	NW_004515897.1	Scaffold421_1	18035	CC	TT	1946947153
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SNP_P4_128241_97894	NW_004515897.1	Scaffold421_1	97894	GG	AA	1946947167
SNP_P4_128242_98288	NW_004515897.1	Scaffold421_1	98288	GG	AA	1946947169
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SNP_P4_128246_98653	NW_004515897.1	Scaffold421_1	98653	TT	AA	1946947177
SNP_P4_128248_99165	NW_004515897.1	Scaffold421_1	99165	GG	CC	1946947179
SNP_P4_128249_99173	NW_004515897.1	Scaffold421_1	99173	CC	TT	1946947181
SNP_P4_128251_99250	NW_004515897.1	Scaffold421_1	99250	AA	GG	1946947183
SNP_P4_128252_99264	NW_004515897.1	Scaffold421_1	99264	AA	GG	1946947185
SNP_P4_128253_16760	NW_004515898.1	Scaffold423	16760	AA	GG	1946947187

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_128255_16866	NW_004515898.1	Scaffold423	16866	TT	AA	1946947191
SNP_P4_128256_16988	NW_004515898.1	Scaffold423	16988	AA	GG	1946947193
SNP_P4_128257_17000	NW_004515898.1	Scaffold423	17000	AA	TT	1946947195
SNP_P4_128258_17027	NW_004515898.1	Scaffold423	17027	AA	TT	1946947197
SNP_P4_128259_17322	NW_004515898.1	Scaffold423	17322	TT	CC	1946947199
SNP_P4_128260_15226	NW_004515899.1	Scaffold424	15226	CC	AA	1946947201
SNP_P4_128261_15238	NW_004515899.1	Scaffold424	15238	AA	GG	1946947203
SNP_P4_128262_15457	NW_004515899.1	Scaffold424	15457	TT	GG	1946947205
SNP_P4_128263_19150	NW_004515899.1	Scaffold424	19150	TT	CC	1946947207
SNP_P4_128264_25942	NW_004515899.1	Scaffold424	25942	TT	CC	1946947209
SNP_P4_128265_29515	NW_004515899.1	Scaffold424	29515	AA	GG	1946947211
SNP_P4_128266_29599	NW_004515899.1	Scaffold424	29599	GG	AA	1946947213
SNP_P4_128267_29617	NW_004515899.1	Scaffold424	29617	GG	AA	1946947215
SNP_P4_128268_29624	NW_004515899.1	Scaffold424	29624	TT	CC	1946947217
SNP_P4_128269_30229	NW_004515899.1	Scaffold424	30229	GG	TT	1946947219
SNP_P4_128270_30231	NW_004515899.1	Scaffold424	30231	TT	CC	1946947221
SNP_P4_128271_35479	NW_004515899.1	Scaffold424	35479	GG	TT	1946947223
SNP_P4_128272_39863	NW_004515899.1	Scaffold424	39863	TT	CC	1946947225
SNP_P4_128273_40016	NW_004515899.1	Scaffold424	40016	GG	CC	1946947227
SNP_P4_128274_40019	NW_004515899.1	Scaffold424	40019	AA	TT	1946947229
SNP_P4_128275_40714	NW_004515899.1	Scaffold424	40714	GG	CC	1946947231
SNP_P4_128276_40945	NW_004515899.1	Scaffold424	40945	TT	AA	1946947233
SNP_P4_128277_40951	NW_004515899.1	Scaffold424	40951	TT	AA	1946947235
SNP_P4_128278_41004	NW_004515899.1	Scaffold424	41004	GG	AA	1946947237
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SNP_P4_128281_56051	NW_004515899.1	Scaffold424	56051	TT	CC	1946947243
SNP_P4_128282_61225	NW_004515899.1	Scaffold424	61225	TT	CC	1946947245
SNP_P4_128283_61393	NW_004515899.1	Scaffold424	61393	CC	TT	1946947247
SNP_P4_128284_61428	NW_004515899.1	Scaffold424	61428	TT	CC	1946947249
SNP_P4_128285_61429	NW_004515899.1	Scaffold424	61429	AA	GG	1946947251
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SNP_P4_128287_63209	NW_004515899.1	Scaffold424	63209	AA	CC	1946947255
SNP_P4_128288_63593	NW_004515899.1	Scaffold424	63593	TT	CC	1946947257
SNP_P4_128290_65737	NW_004515899.1	Scaffold424	65737	GG	TT	1946947259
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SNP_P4_128292_74757	NW_004515899.1	Scaffold424	74757	GG	TT	1946947263
SNP_P4_128293_77080	NW_004515899.1	Scaffold424	77080	AA	GG	1946947265
SNP_P4_128294_77129	NW_004515899.1	Scaffold424	77129	TT	CC	1946947267
SNP_P4_128295_77131	NW_004515899.1	Scaffold424	77131	AA	GG	1946947269
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_128299_88524	NW_004515899.1	Scaffold424	88524	CC	TT	1946947277
SNP_P4_128300_88582	NW_004515899.1	Scaffold424	88582	AA	CC	1946947279
SNP_P4_128301_88778	NW_004515899.1	Scaffold424	88778	TT	AA	1946947281
SNP_P4_128302_88794	NW_004515899.1	Scaffold424	88794	TT	GG	1946947283
SNP_P4_128303_88819	NW_004515899.1	Scaffold424	88819	AA	CC	1946947285
SNP_P4_128304_90467	NW_004515899.1	Scaffold424	90467	AA	TT	1946947287
SNP_P4_128305_92161	NW_004515899.1	Scaffold424	92161	CC	AA	1946947289
SNP_P4_128306_92298	NW_004515899.1	Scaffold424	92298	TT	CC	1946947291
SNP_P4_128307_95018	NW_004515899.1	Scaffold424	95018	CC	TT	1946947293
SNP_P4_128308_102580	NW_004515899.1	Scaffold424	102580	GG	CC	1946947295
SNP_P4_128309_104192	NW_004515899.1	Scaffold424	104192	AA	GG	1946947297
SNP_P4_128310_104331	NW_004515899.1	Scaffold424	104331	CC	AA	1946947299
SNP_P4_128311_104356	NW_004515899.1	Scaffold424	104356	CC	GG	1946947301
SNP_P4_128312_104393	NW_004515899.1	Scaffold424	104393	TT	CC	1946947303
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SNP_P4_128329_112607	NW_004515899.1	Scaffold424	112607	CC	TT	1946947337
SNP_P4_128330_112702	NW_004515899.1	Scaffold424	112702	CC	GG	1946947339
SNP_P4_128331_113082	NW_004515899.1	Scaffold424	113082	GG	AA	1946947341
SNP_P4_128332_113135	NW_004515899.1	Scaffold424	113135	TT	CC	1946947343
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SNP_P4_128336_113494	NW_004515899.1	Scaffold424	113494	CC	AA	1946947351
SNP_P4_128337_115342	NW_004515899.1	Scaffold424	115342	AA	GG	1946947353
SNP_P4_128338_122435	NW_004515899.1	Scaffold424	122435	CC	GG	1946947355

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_128340_124326	NW_004515899.1	Scaffold424	124326	TT	GG	1946947359
SNP_P4_128341_124389	NW_004515899.1	Scaffold424	124389	AA	TT	1946947361
SNP_P4_128342_124394	NW_004515899.1	Scaffold424	124394	AA	TT	1946947363
SNP_P4_128343_502	NW_004515900.1	Scaffold425	502	TT	CC	1946947365
SNP_P4_128344_690	NW_004515900.1	Scaffold425	690	CC	TT	1946947367
SNP_P4_128345_695	NW_004515900.1	Scaffold425	695	TT	GG	1946947368
SNP_P4_128346_717	NW_004515900.1	Scaffold425	717	AA	CC	1946947371
SNP_P4_128347_755	NW_004515900.1	Scaffold425	755	AA	CC	1946947373
SNP_P4_128348_759	NW_004515900.1	Scaffold425	759	TT	CC	1946947375
SNP_P4_128349_796	NW_004515900.1	Scaffold425	796	CC	AA	1946947377
SNP_P4_128350_805	NW_004515900.1	Scaffold425	805	AA	GG	1946947379
SNP_P4_128351_13475	NW_004515901.1	Scaffold427	13475	TT	GG	1946947381
SNP_P4_128352_14228	NW_004515901.1	Scaffold427	14228	AA	GG	1946947383
SNP_P4_128353_15736	NW_004515901.1	Scaffold427	15736	CC	AA	1946947385
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SNP_P4_128362_61076	NW_004515901.1	Scaffold427	61076	TT	AA	1946947403
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SNP_P4_128367_82973	NW_004515901.1	Scaffold427	82973	TT	CC	1946947413
SNP_P4_128368_83008	NW_004515901.1	Scaffold427	83008	AA	GG	1946947415
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SNP_P4_128371_83661	NW_004515901.1	Scaffold427	83661	TT	AA	1946947421
SNP_P4_128372_83745	NW_004515901.1	Scaffold427	83745	AA	GG	1946947423
SNP_P4_128373_100338	NW_004515901.1	Scaffold427	100338	CC	TT	1946947425
SNP_P4_128374_103726	NW_004515901.1	Scaffold427	103726	TT	AA	1946947427
SNP_P4_128375_105107	NW_004515901.1	Scaffold427	105107	AA	TT	1946947429
SNP_P4_128376_105113	NW_004515901.1	Scaffold427	105113	AA	TT	1946947431
SNP_P4_128377_105120	NW_004515901.1	Scaffold427	105120	AA	CC	1946947433
SNP_P4_128378_105124	NW_004515901.1	Scaffold427	105124	CC	AA	1946947435
SNP_P4_128379_107641	NW_004515901.1	Scaffold427	107641	CC	TT	1946947437
SNP_P4_128380_121860	NW_004515901.1	Scaffold427	121860	GG	CC	1946947439

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_128383_19963	NW_004515902.1	Scaffold428	19963	AA	GG	1946947443
SNP_P4_128384_20004	NW_004515902.1	Scaffold428	20004	AA	GG	1946947446
SNP_P4_128385_20055	NW_004515902.1	Scaffold428	20055	AA	GG	1946947448
SNP_P4_128386_20118	NW_004515902.1	Scaffold428	20118	AA	GG	1946947450
SNP_P4_128387_20138	NW_004515902.1	Scaffold428	20138	TT	CC	1946947452
SNP_P4_128388_20333	NW_004515902.1	Scaffold428	20333	AA	GG	1946947454
SNP_P4_128389_20343	NW_004515902.1	Scaffold428	20343	TT	CC	1946947456
SNP_P4_128390_263	NW_004515903.1	Scaffold429	263	AA	GG	1946947458
SNP_P4_128391_268	NW_004515903.1	Scaffold429	268	CC	GG	1946947460
SNP_P4_128392_323	NW_004515903.1	Scaffold429	323	AA	TT	1946947462
SNP_P4_128393_391	NW_004515903.1	Scaffold429	391	CC	TT	1946947464
SNP_P4_128394_393	NW_004515903.1	Scaffold429	393	TT	CC	1946947466
SNP_P4_128395_410	NW_004515903.1	Scaffold429	410	CC	AA	1946947468
SNP_P4_128396_497	NW_004515903.1	Scaffold429	497	GG	CC	1946947470
SNP_P4_128397_684	NW_004515903.1	Scaffold429	684	CC	TT	1946947472
SNP_P4_128398_687	NW_004515903.1	Scaffold429	687	AA	TT	1946947474
SNP_P4_128399_2846	NW_004515903.1	Scaffold429	2846	TT	AA	1946947476
SNP_P4_128400_6071	NW_004515903.1	Scaffold429	6071	CC	GG	1946947478
SNP_P4_128401_6084	NW_004515903.1	Scaffold429	6084	AA	TT	1946947480
SNP_P4_128402_6536	NW_004515903.1	Scaffold429	6536	TT	GG	1946947482
SNP_P4_128403_8141	NW_004515903.1	Scaffold429	8141	GG	AA	1946947484
SNP_P4_128404_8144	NW_004515903.1	Scaffold429	8144	TT	AA	1946947486
SNP_P4_128405_8222	NW_004515903.1	Scaffold429	8222	AA	GG	1946947488
SNP_P4_128406_8262	NW_004515903.1	Scaffold429	8262	AA	TT	1946947490
SNP_P4_128407_8317	NW_004515903.1	Scaffold429	8317	GG	AA	1946947492
SNP_P4_128408_8334	NW_004515903.1	Scaffold429	8334	GG	CC	1946947494
SNP_P4_128409_8343	NW_004515903.1	Scaffold429	8343	AA	GG	1946947496
SNP_P4_128410_8405	NW_004515903.1	Scaffold429	8405	AA	TT	1946947497
SNP_P4_128411_8422	NW_004515903.1	Scaffold429	8422	AA	TT	1946947499
SNP_P4_128412_8459	NW_004515903.1	Scaffold429	8459	AA	TT	1946947501
SNP_P4_128413_8478	NW_004515903.1	Scaffold429	8478	CC	AA	1946947503
SNP_P4_128414_8577	NW_004515903.1	Scaffold429	8577	CC	GG	1946947505
SNP_P4_128415_8583	NW_004515903.1	Scaffold429	8583	AA	GG	1946947507
SNP_P4_128416_8605	NW_004515903.1	Scaffold429	8605	GG	AA	1946947509
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SNP_P4_128419_8760	NW_004515903.1	Scaffold429	8760	TT	GG	1946947515
SNP_P4_128420_8826	NW_004515903.1	Scaffold429	8826	GG	CC	1946947517
SNP_P4_128421_8841	NW_004515903.1	Scaffold429	8841	CC	AA	1946947518
SNP_P4_128422_8966	NW_004515903.1	Scaffold429	8966	GG	TT	1946947520
SNP_P4_128423_9006	NW_004515903.1	Scaffold429	9006	TT	GG	1946947522

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_128425_9025	NW_004515903.1	Scaffold429	9025	GG	TT	1946947526
SNP_P4_128426_9031	NW_004515903.1	Scaffold429	9031	GG	AA	1946947528
SNP_P4_128427_9108	NW_004515903.1	Scaffold429	9108	CC	TT	1946947530
SNP_P4_128428_9119	NW_004515903.1	Scaffold429	9119	TT	GG	1946947532
SNP_P4_128429_9120	NW_004515903.1	Scaffold429	9120	TT	AA	1946947534
SNP_P4_128430_9319	NW_004515903.1	Scaffold429	9319	TT	GG	1946947536
SNP_P4_128431_9320	NW_004515903.1	Scaffold429	9320	TT	AA	1946947538
SNP_P4_128432_9367	NW_004515903.1	Scaffold429	9367	AA	GG	1946947539
SNP_P4_128433_9615	NW_004515903.1	Scaffold429	9615	TT	GG	1946947541
SNP_P4_128434_9728	NW_004515903.1	Scaffold429	9728	TT	CC	1946947543
SNP_P4_128435_9779	NW_004515903.1	Scaffold429	9779	GG	TT	1946947545
SNP_P4_128436_11002	NW_004515903.1	Scaffold429	11002	GG	AA	1946947547
SNP_P4_128437_11558	NW_004515903.1	Scaffold429	11558	AA	TT	1946947549
SNP_P4_128438_13461	NW_004515903.1	Scaffold429	13461	GG	AA	1946947551
SNP_P4_128441_14478	NW_004515903.1	Scaffold429	14478	TT	CC	1946947553
SNP_P4_128442_15472	NW_004515903.1	Scaffold429	15472	TT	CC	1946947555
SNP_P4_128443_15504	NW_004515903.1	Scaffold429	15504	TT	CC	1946947557
SNP_P4_128444_15519	NW_004515903.1	Scaffold429	15519	CC	TT	1946947559
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SNP_P4_128446_15703	NW_004515903.1	Scaffold429	15703	AA	GG	1946947562
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SNP_P4_128450_15772	NW_004515903.1	Scaffold429	15772	CC	TT	1946947570
SNP_P4_128451_15783	NW_004515903.1	Scaffold429	15783	GG	CC	1946947572
SNP_P4_128452_15807	NW_004515903.1	Scaffold429	15807	CC	TT	1946947574
SNP_P4_128453_15841	NW_004515903.1	Scaffold429	15841	CC	TT	1946947576
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SNP_P4_128455_28697	NW_004515903.1	Scaffold429	28697	AA	GG	1946947580
SNP_P4_128456_29245	NW_004515903.1	Scaffold429	29245	CC	TT	1946947582
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SNP_P4_128459_29389	NW_004515903.1	Scaffold429	29389	TT	CC	1946947587
SNP_P4_128460_29529	NW_004515903.1	Scaffold429	29529	CC	AA	1946947589
SNP_P4_128461_29552	NW_004515903.1	Scaffold429	29552	AA	GG	1946947591
SNP_P4_128462_29554	NW_004515903.1	Scaffold429	29554	TT	CC	1946947593
SNP_P4_128463_29610	NW_004515903.1	Scaffold429	29610	TT	CC	1946947595
SNP_P4_128464_29640	NW_004515903.1	Scaffold429	29640	TT	AA	1946947597
SNP_P4_128465_29755	NW_004515903.1	Scaffold429	29755	AA	TT	1946947599
SNP_P4_128466_29775	NW_004515903.1	Scaffold429	29775	AA	CC	1946947601
SNP_P4_128467_29777	NW_004515903.1	Scaffold429	29777	GG	AA	1946947603

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_128469_31494	NW_004515903.1	Scaffold429	31494	AA	CC	1946947607
SNP_P4_128470_41653	NW_004515903.1	Scaffold429	41653	AA	GG	1946947609
SNP_P4_128471_45530	NW_004515903.1	Scaffold429	45530	CC	TT	1946947611
SNP_P4_128472_45533	NW_004515903.1	Scaffold429	45533	CC	AA	1946947613
SNP_P4_128473_45576	NW_004515903.1	Scaffold429	45576	AA	CC	1946947615
SNP_P4_128474_48016	NW_004515903.1	Scaffold429	48016	CC	AA	1946947617
SNP_P4_128475_58226	NW_004515903.1	Scaffold429	58226	AA	TT	1946947619
SNP_P4_128476_59341	NW_004515903.1	Scaffold429	59341	AA	CC	1946947620
SNP_P4_128477_59384	NW_004515903.1	Scaffold429	59384	AA	GG	1946947622
SNP_P4_128478_59394	NW_004515903.1	Scaffold429	59394	GG	TT	1946947624
SNP_P4_128479_59754	NW_004515903.1	Scaffold429	59754	TT	CC	1946947626
SNP_P4_128480_59995	NW_004515903.1	Scaffold429	59995	AA	TT	1946947628
SNP_P4_128481_67088	NW_004515903.1	Scaffold429	67088	AA	CC	1946947630
SNP_P4_128482_67095	NW_004515903.1	Scaffold429	67095	AA	TT	1946947632
SNP_P4_128483_67121	NW_004515903.1	Scaffold429	67121	CC	TT	1946947634
SNP_P4_128484_68966	NW_004515903.1	Scaffold429	68966	AA	GG	1946947636
SNP_P4_128485_69048	NW_004515903.1	Scaffold429	69048	AA	GG	1946947638
SNP_P4_128486_69273	NW_004515903.1	Scaffold429	69273	TT	CC	1946947640
SNP_P4_128487_69352	NW_004515903.1	Scaffold429	69352	AA	CC	1946947712
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SNP_P4_128489_69781	NW_004515903.1	Scaffold429	69781	AA	TT	1946947716
SNP_P4_128490_69789	NW_004515903.1	Scaffold429	69789	TT	AA	1946947718
SNP_P4_128491_69792	NW_004515903.1	Scaffold429	69792	AA	GG	1946947720
SNP_P4_128493_72563	NW_004515903.1	Scaffold429	72563	GG	AA	1946947722
SNP_P4_128494_72568	NW_004515903.1	Scaffold429	72568	TT	CC	1946947724
SNP_P4_128495_73190	NW_004515903.1	Scaffold429	73190	CC	TT	1946947726
SNP_P4_128496_73202	NW_004515903.1	Scaffold429	73202	GG	TT	1946947728
SNP_P4_128497_73203	NW_004515903.1	Scaffold429	73203	AA	GG	1946947730
SNP_P4_128498_73204	NW_004515903.1	Scaffold429	73204	CC	AA	1946947732
SNP_P4_128499_76486	NW_004515903.1	Scaffold429	76486	CC	TT	1946947734
SNP_P4_128500_76494	NW_004515903.1	Scaffold429	76494	GG	AA	1946947736
SNP_P4_128502_76498	NW_004515903.1	Scaffold429	76498	GG	TT	1946947737
SNP_P4_128503_78480	NW_004515903.1	Scaffold429	78480	GG	AA	1946947739
SNP_P4_128504_82363	NW_004515903.1	Scaffold429	82363	AA	GG	1946947741
SNP_P4_128505_88905	NW_004515903.1	Scaffold429	88905	CC	AA	1946947743
SNP_P4_128506_96208	NW_004515903.1	Scaffold429	96208	TT	GG	1946947745
SNP_P4_128507_96300	NW_004515903.1	Scaffold429	96300	TT	GG	1946947747
SNP_P4_128508_96584	NW_004515903.1	Scaffold429	96584	TT	CC	1946947749
SNP_P4_128509_96586	NW_004515903.1	Scaffold429	96586	AA	GG	1946947751
SNP_P4_128510_96638	NW_004515903.1	Scaffold429	96638	TT	AA	1946947753
SNP_P4_128511_96690	NW_004515903.1	Scaffold429	96690	TT	CC	1946947755

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_128513_96712	NW_004515903.1	Scaffold429	96712	TT	CC	1946947758
SNP_P4_128514_96754	NW_004515903.1	Scaffold429	96754	AA	GG	1946947760
SNP_P4_128515_96779	NW_004515903.1	Scaffold429	96779	TT	CC	1946947762
SNP_P4_128516_96811	NW_004515903.1	Scaffold429	96811	AA	GG	1946947764
SNP_P4_128517_97072	NW_004515903.1	Scaffold429	97072	CC	AA	1946947766
SNP_P4_128518_97076	NW_004515903.1	Scaffold429	97076	CC	TT	1946947768
SNP_P4_128519_111774	NW_004515903.1	Scaffold429	111774	TT	CC	1946947770
SNP_P4_128520_115229	NW_004515903.1	Scaffold429	115229	GG	TT	1946947772
SNP_P4_128521_117301	NW_004515903.1	Scaffold429	117301	TT	AA	1946947774
SNP_P4_128522_121790	NW_004515903.1	Scaffold429	121790	GG	CC	1946947776
SNP_P4_128524_128714	NW_004515903.1	Scaffold429	128714	GG	AA	1946947778
SNP_P4_128525_128717	NW_004515903.1	Scaffold429	128717	AA	TT	1946947780
SNP_P4_128526_128834	NW_004515903.1	Scaffold429	128834	GG	CC	1946947782
SNP_P4_128527_128851	NW_004515903.1	Scaffold429	128851	TT	AA	1946947784
SNP_P4_128528_129086	NW_004515903.1	Scaffold429	129086	AA	TT	1946947786
SNP_P4_128529_129153	NW_004515903.1	Scaffold429	129153	CC	TT	1946947788
SNP_P4_128530_129215	NW_004515903.1	Scaffold429	129215	TT	GG	1946947790
SNP_P4_128531_129646	NW_004515903.1	Scaffold429	129646	AA	TT	1946947792
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SNP_P4_128533_131869	NW_004515903.1	Scaffold429	131869	AA	TT	1946947796
SNP_P4_128534_132611	NW_004515903.1	Scaffold429	132611	AA	TT	1946947798
SNP_P4_128535_141398	NW_004515903.1	Scaffold429	141398	TT	GG	1946947800
SNP_P4_128536_141462	NW_004515903.1	Scaffold429	141462	AA	CC	1946947801
SNP_P4_128537_141631	NW_004515903.1	Scaffold429	141631	CC	AA	1946947803
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SNP_P4_128542_146422	NW_004515903.1	Scaffold429	146422	AA	GG	1946947813
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SNP_P4_128544_146454	NW_004515903.1	Scaffold429	146454	CC	TT	1946947817
SNP_P4_128545_146476	NW_004515903.1	Scaffold429	146476	TT	CC	1946947819
SNP_P4_128546_149076	NW_004515903.1	Scaffold429	149076	TT	CC	1946947821
SNP_P4_128547_149128	NW_004515903.1	Scaffold429	149128	CC	TT	1946947823
SNP_P4_128548_156384	NW_004515903.1	Scaffold429	156384	GG	CC	1946947825
SNP_P4_128549_175392	NW_004515903.1	Scaffold429	175392	TT	CC	1946947827
SNP_P4_128550_176612	NW_004515903.1	Scaffold429	176612	AA	GG	1946947829
SNP_P4_128551_178920	NW_004515903.1	Scaffold429	178920	TT	AA	1946947831
SNP_P4_128552_178991	NW_004515903.1	Scaffold429	178991	CC	AA	1946947833
SNP_P4_128554_181400	NW_004515903.1	Scaffold429	181400	TT	GG	1946947835
SNP_P4_128555_181411	NW_004515903.1	Scaffold429	181411	AA	GG	1946947837

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_128558_181805	NW_004515903.1	Scaffold429	181805	GG	AA	1946947843
SNP_P4_128559_32	NW_004515904.1	Scaffold430	32	CC	AA	1946947845
SNP_P4_128560_686	NW_004515904.1	Scaffold430	686	AA	GG	1946947847
SNP_P4_128561_2156	NW_004515905.1	Scaffold432	2156	AA	TT	1946947849
SNP_P4_128562_2211	NW_004515905.1	Scaffold432	2211	AA	GG	1946947851
SNP_P4_128563_2399	NW_004515905.1	Scaffold432	2399	TT	CC	1946947853
SNP_P4_128564_2669	NW_004515905.1	Scaffold432	2669	GG	AA	1946947855
SNP_P4_128565_2737	NW_004515905.1	Scaffold432	2737	TT	CC	1946947857
SNP_P4_128566_4048	NW_004515905.1	Scaffold432	4048	GG	AA	1946947859
SNP_P4_128567_4423	NW_004515905.1	Scaffold432	4423	AA	TT	1946947861
SNP_P4_128568_4645	NW_004515905.1	Scaffold432	4645	TT	CC	1946947863
SNP_P4_128569_4766	NW_004515905.1	Scaffold432	4766	AA	CC	1946947864
SNP_P4_128570_7435	NW_004515905.1	Scaffold432	7435	AA	CC	1946947866
SNP_P4_128571_7673	NW_004515905.1	Scaffold432	7673	CC	TT	1946947868
SNP_P4_128572_10716	NW_004515905.1	Scaffold432	10716	GG	AA	1946947870
SNP_P4_128573_16019	NW_004515905.1	Scaffold432	16019	CC	TT	1946947872
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SNP_P4_128575_16063	NW_004515905.1	Scaffold432	16063	AA	GG	1946947876
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SNP_P4_128582_16728	NW_004515905.1	Scaffold432	16728	TT	CC	1946947890
SNP_P4_128583_16926	NW_004515905.1	Scaffold432	16926	TT	CC	1946947892
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SNP_P4_128585_16937	NW_004515905.1	Scaffold432	16937	TT	CC	1946947896
SNP_P4_128586_17736	NW_004515905.1	Scaffold432	17736	AA	GG	1946947898
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SNP_P4_128590_17908	NW_004515905.1	Scaffold432	17908	AA	CC	1946947906
SNP_P4_128591_17987	NW_004515905.1	Scaffold432	17987	GG	AA	1946947908
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SNP_P4_128593_18112	NW_004515905.1	Scaffold432	18112	CC	TT	1946947911
SNP_P4_128594_18137	NW_004515905.1	Scaffold432	18137	AA	CC	1946947913
SNP_P4_128595_18149	NW_004515905.1	Scaffold432	18149	CC	TT	1946947915
SNP_P4_128596_18161	NW_004515905.1	Scaffold432	18161	TT	CC	1946947917
SNP_P4_128597_18642	NW_004515905.1	Scaffold432	18642	TT	GG	1946947919

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_128600_19009	NW_004515905.1	Scaffold432	19009	AA	TT	1946947923
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SNP_P4_128602_19086	NW_004515905.1	Scaffold432	19086	GG	AA	1946947927
SNP_P4_128603_5016	NW_004515906.1	Scaffold433	5016	TT	CC	1946947929
SNP_P4_128604_8056	NW_004515906.1	Scaffold433	8056	AA	TT	1946947931
SNP_P4_128606_11146	NW_004515906.1	Scaffold433	11146	AA	GG	1946947933
SNP_P4_128607_11413	NW_004515906.1	Scaffold433	11413	CC	AA	1946947935
SNP_P4_128608_11418	NW_004515906.1	Scaffold433	11418	GG	AA	1946947937
SNP_P4_128609_11829	NW_004515906.1	Scaffold433	11829	AA	GG	1946947939
SNP_P4_128610_12040	NW_004515906.1	Scaffold433	12040	GG	AA	1946947941
SNP_P4_128611_12226	NW_004515906.1	Scaffold433	12226	CC	TT	1946947943
SNP_P4_128612_12401	NW_004515906.1	Scaffold433	12401	AA	GG	1946947945
SNP_P4_128614_13857	NW_004515906.1	Scaffold433	13857	GG	AA	1946947947
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SNP_P4_128616_13968	NW_004515906.1	Scaffold433	13968	CC	TT	1946947951
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SNP_P4_128619_15782	NW_004515906.1	Scaffold433	15782	GG	AA	1946947955
SNP_P4_128620_16129	NW_004515906.1	Scaffold433	16129	TT	CC	1946947957
SNP_P4_128621_16131	NW_004515906.1	Scaffold433	16131	TT	CC	1946947959
SNP_P4_128622_16861	NW_004515906.1	Scaffold433	16861	TT	CC	1946947960
SNP_P4_128623_16878	NW_004515906.1	Scaffold433	16878	GG	AA	1946947962
SNP_P4_128624_16923	NW_004515906.1	Scaffold433	16923	CC	TT	1946947964
SNP_P4_128625_17252	NW_004515906.1	Scaffold433	17252	CC	GG	1946947966
SNP_P4_128627_21466	NW_004515906.1	Scaffold433	21466	GG	AA	1946947968
SNP_P4_128628_22641	NW_004515906.1	Scaffold433	22641	TT	CC	1946947970
SNP_P4_128629_22651	NW_004515906.1	Scaffold433	22651	AA	GG	1946947972
SNP_P4_128630_24847	NW_004515906.1	Scaffold433	24847	CC	TT	1946947974
SNP_P4_128631_24857	NW_004515906.1	Scaffold433	24857	TT	GG	1946947976
SNP_P4_128632_25731	NW_004515906.1	Scaffold433	25731	TT	CC	1946947977
SNP_P4_128633_25868	NW_004515906.1	Scaffold433	25868	GG	AA	1946947979
SNP_P4_128634_29088	NW_004515906.1	Scaffold433	29088	GG	AA	1946947981
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SNP_P4_128637_29111	NW_004515906.1	Scaffold433	29111	AA	GG	1946947987
SNP_P4_128638_29170	NW_004515906.1	Scaffold433	29170	TT	AA	1946947989
SNP_P4_128639_29194	NW_004515906.1	Scaffold433	29194	TT	CC	1946947991
SNP_P4_128640_29199	NW_004515906.1	Scaffold433	29199	CC	TT	1946947993
SNP_P4_128641_29205	NW_004515906.1	Scaffold433	29205	AA	TT	1946947995
SNP_P4_128642_29222	NW_004515906.1	Scaffold433	29222	CC	GG	1946947996
SNP_P4_128643_29239	NW_004515906.1	Scaffold433	29239	GG	TT	1946947998
SNP_P4_128644_29263	NW_004515906.1	Scaffold433	29263	AA	TT	1946948000

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_128646_32296	NW_004515906.1	Scaffold433	32296	AA	GG	1946948004
SNP_P4_128647_32692	NW_004515906.1	Scaffold433	32692	CC	TT	1946948006
SNP_P4_128648_36044	NW_004515906.1	Scaffold433	36044	AA	GG	1946948008
SNP_P4_128649_36072	NW_004515906.1	Scaffold433	36072	CC	AA	1946948010
SNP_P4_128650_36086	NW_004515906.1	Scaffold433	36086	GG	AA	1946948012
SNP_P4_128651_36179	NW_004515906.1	Scaffold433	36179	CC	AA	1946948013
SNP_P4_128652_36189	NW_004515906.1	Scaffold433	36189	TT	AA	1946948015
SNP_P4_128653_41149	NW_004515906.1	Scaffold433	41149	CC	AA	1946948017
SNP_P4_128654_46745	NW_004515906.1	Scaffold433	46745	CC	TT	1946948019
SNP_P4_128655_46764	NW_004515906.1	Scaffold433	46764	GG	CC	1946948021
SNP_P4_128656_46788	NW_004515906.1	Scaffold433	46788	GG	TT	1946948023
SNP_P4_128657_46963	NW_004515906.1	Scaffold433	46963	CC	TT	1946948025
SNP_P4_128658_53411	NW_004515906.1	Scaffold433	53411	GG	AA	1946948027
SNP_P4_128659_54094	NW_004515906.1	Scaffold433	54094	GG	AA	1946948028
SNP_P4_128660_56368	NW_004515906.1	Scaffold433	56368	AA	CC	1946948030
SNP_P4_128661_59667	NW_004515906.1	Scaffold433	59667	TT	AA	1946948032
SNP_P4_128662_60238	NW_004515906.1	Scaffold433	60238	GG	AA	1946948034
SNP_P4_128663_64818	NW_004515906.1	Scaffold433	64818	AA	TT	1946948036
SNP_P4_128664_65942	NW_004515906.1	Scaffold433	65942	GG	AA	1946948038
SNP_P4_128667_71668	NW_004515906.1	Scaffold433	71668	AA	GG	1946948040
SNP_P4_128668_71677	NW_004515906.1	Scaffold433	71677	CC	TT	1946948042
SNP_P4_128669_71936	NW_004515906.1	Scaffold433	71936	CC	TT	1946948044
SNP_P4_128670_73468	NW_004515906.1	Scaffold433	73468	CC	TT	1946948046
SNP_P4_128671_86242	NW_004515906.1	Scaffold433	86242	AA	GG	1946948047
SNP_P4_128673_86401	NW_004515906.1	Scaffold433	86401	AA	TT	1946948049
SNP_P4_128674_88822	NW_004515906.1	Scaffold433	88822	CC	GG	1946948051
SNP_P4_128675_98044	NW_004515906.1	Scaffold433	98044	TT	CC	1946948053
SNP_P4_128676_106751	NW_004515906.1	Scaffold433	106751	TT	CC	1946948055
SNP_P4_128677_111372	NW_004515906.1	Scaffold433	111372	TT	CC	1946948057
SNP_P4_128678_112355	NW_004515906.1	Scaffold433	112355	AA	CC	1946948059
SNP_P4_128679_112382	NW_004515906.1	Scaffold433	112382	GG	CC	1946948061
SNP_P4_128680_112624	NW_004515906.1	Scaffold433	112624	CC	TT	1946948063
SNP_P4_128681_113351	NW_004515906.1	Scaffold433	113351	GG	AA	1946948065
SNP_P4_128682_113790	NW_004515906.1	Scaffold433	113790	TT	CC	1946948067
SNP_P4_128683_116081	NW_004515906.1	Scaffold433	116081	AA	TT	1946948068
SNP_P4_128684_116379	NW_004515906.1	Scaffold433	116379	CC	TT	1946948070
SNP_P4_128685_126886	NW_004515906.1	Scaffold433	126886	CC	AA	1946948072
SNP_P4_128686_127206	NW_004515906.1	Scaffold433	127206	AA	GG	1946948074
SNP_P4_128687_127271	NW_004515906.1	Scaffold433	127271	AA	GG	1946948076
SNP_P4_128688_128905	NW_004515906.1	Scaffold433	128905	GG	AA	1946948078
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_128691_131534	NW_004515906.1	Scaffold433	131534	CC	TT	1946948084
SNP_P4_128692_132778	NW_004515906.1	Scaffold433	132778	GG	AA	1946948086
SNP_P4_128693_132808	NW_004515906.1	Scaffold433	132808	CC	AA	1946948088
SNP_P4_128694_132815	NW_004515906.1	Scaffold433	132815	GG	TT	1946948089
SNP_P4_128695_132817	NW_004515906.1	Scaffold433	132817	GG	CC	1946948091
SNP_P4_128696_132865	NW_004515906.1	Scaffold433	132865	GG	AA	1946948093
SNP_P4_128697_141002	NW_004515906.1	Scaffold433	141002	CC	AA	1946948095
SNP_P4_128699_141273	NW_004515906.1	Scaffold433	141273	CC	TT	1946948097
SNP_P4_128700_141599	NW_004515906.1	Scaffold433	141599	GG	TT	1946948099
SNP_P4_128701_142727	NW_004515906.1	Scaffold433	142727	GG	TT	1946948101
SNP_P4_128702_142744	NW_004515906.1	Scaffold433	142744	TT	CC	1946948103
SNP_P4_128705_146157	NW_004515906.1	Scaffold433	146157	TT	GG	1946948105
SNP_P4_128707_146392	NW_004515906.1	Scaffold433	146392	AA	TT	1946948107
SNP_P4_128708_146451	NW_004515906.1	Scaffold433	146451	AA	TT	1946948109
SNP_P4_128709_146566	NW_004515906.1	Scaffold433	146566	AA	TT	1946948110
SNP_P4_128710_146777	NW_004515906.1	Scaffold433	146777	CC	TT	1946948112
SNP_P4_128712_147298	NW_004515906.1	Scaffold433	147298	AA	CC	1946948114
SNP_P4_128713_148608	NW_004515906.1	Scaffold433	148608	TT	CC	1946948116
SNP_P4_128714_148924	NW_004515906.1	Scaffold433	148924	CC	TT	1946948118
SNP_P4_128715_148963	NW_004515906.1	Scaffold433	148963	AA	GG	1946948120
SNP_P4_128716_148982	NW_004515906.1	Scaffold433	148982	AA	GG	1946948122
SNP_P4_128717_149004	NW_004515906.1	Scaffold433	149004	TT	CC	1946948124
SNP_P4_128718_150765	NW_004515906.1	Scaffold433	150765	GG	CC	1946948126
SNP_P4_128719_150791	NW_004515906.1	Scaffold433	150791	CC	TT	1946948128
SNP_P4_128720_151164	NW_004515906.1	Scaffold433	151164	TT	CC	1946948130
SNP_P4_128721_151678	NW_004515906.1	Scaffold433	151678	GG	TT	1946948132
SNP_P4_128722_151709	NW_004515906.1	Scaffold433	151709	GG	AA	1946948134
SNP_P4_128723_151715	NW_004515906.1	Scaffold433	151715	AA	GG	1946948136
SNP_P4_128724_151736	NW_004515906.1	Scaffold433	151736	GG	AA	1946948138
SNP_P4_128725_151740	NW_004515906.1	Scaffold433	151740	TT	CC	1946948140
SNP_P4_128726_151741	NW_004515906.1	Scaffold433	151741	CC	TT	1946948142
SNP_P4_128727_152091	NW_004515906.1	Scaffold433	152091	CC	TT	1946948144
SNP_P4_128728_152212	NW_004515906.1	Scaffold433	152212	AA	GG	1946948146
SNP_P4_128729_152244	NW_004515906.1	Scaffold433	152244	GG	TT	1946948148
SNP_P4_128730_152427	NW_004515906.1	Scaffold433	152427	GG	AA	1946948150
SNP_P4_128731_152505	NW_004515906.1	Scaffold433	152505	AA	GG	1946948152
SNP_P4_128732_152597	NW_004515906.1	Scaffold433	152597	GG	TT	1946948154
SNP_P4_128733_155186	NW_004515906.1	Scaffold433	155186	TT	GG	1946948156
SNP_P4_128734_155246	NW_004515906.1	Scaffold433	155246	CC	TT	1946948158
SNP_P4_128735_155264	NW_004515906.1	Scaffold433	155264	GG	AA	1946948160
SNP_P4_128736_155394	NW_004515906.1	Scaffold433	155394	AA	CC	1946948162

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_128738_155414	NW_004515906.1	Scaffold433	155414	CC	GG	1946948166
SNP_P4_128739_155432	NW_004515906.1	Scaffold433	155432	CC	TT	1946948168
SNP_P4_128740_155895	NW_004515906.1	Scaffold433	155895	CC	TT	1946948170
SNP_P4_128741_155955	NW_004515906.1	Scaffold433	155955	AA	GG	1946948172
SNP_P4_128742_157189	NW_004515906.1	Scaffold433	157189	GG	AA	1946948174
SNP_P4_128743_157391	NW_004515906.1	Scaffold433	157391	CC	AA	1946948176
SNP_P4_128744_157514	NW_004515906.1	Scaffold433	157514	TT	CC	1946948178
SNP_P4_128745_157529	NW_004515906.1	Scaffold433	157529	CC	GG	1946948180
SNP_P4_128747_157683	NW_004515906.1	Scaffold433	157683	TT	GG	1946948182
SNP_P4_128748_157701	NW_004515906.1	Scaffold433	157701	CC	TT	1946948184
SNP_P4_128749_157730	NW_004515906.1	Scaffold433	157730	AA	CC	1946948186
SNP_P4_128750_158035	NW_004515906.1	Scaffold433	158035	AA	CC	1946948187
SNP_P4_128751_158112	NW_004515906.1	Scaffold433	158112	GG	AA	1946948189
SNP_P4_128752_158200	NW_004515906.1	Scaffold433	158200	TT	CC	1946948191
SNP_P4_128753_158206	NW_004515906.1	Scaffold433	158206	AA	GG	1946948193
SNP_P4_128754_158404	NW_004515906.1	Scaffold433	158404	TT	CC	1946948195
SNP_P4_128755_158426	NW_004515906.1	Scaffold433	158426	TT	CC	1946948197
SNP_P4_128756_158441	NW_004515906.1	Scaffold433	158441	CC	TT	1946948199
SNP_P4_128757_158633	NW_004515906.1	Scaffold433	158633	TT	AA	1946948201
SNP_P4_128759_160048	NW_004515906.1	Scaffold433	160048	CC	GG	1946948203
SNP_P4_128760_161368	NW_004515906.1	Scaffold433	161368	GG	AA	1946948205
SNP_P4_128761_161434	NW_004515906.1	Scaffold433	161434	GG	AA	1946948207
SNP_P4_128762_161444	NW_004515906.1	Scaffold433	161444	TT	AA	1946948209
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SNP_P4_128765_162012	NW_004515906.1	Scaffold433	162012	CC	TT	1946948215
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SNP_P4_128769_165876	NW_004515906.1	Scaffold433	165876	CC	TT	1946948223
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SNP_P4_128774_165985	NW_004515906.1	Scaffold433	165985	GG	AA	1946948231
SNP_P4_128775_166027	NW_004515906.1	Scaffold433	166027	AA	CC	1946948233
SNP_P4_128776_166030	NW_004515906.1	Scaffold433	166030	CC	TT	1946948235
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SNP_P4_128778_166084	NW_004515906.1	Scaffold433	166084	GG	AA	1946948239
SNP_P4_128779_166179	NW_004515906.1	Scaffold433	166179	CC	TT	1946948241
SNP_P4_128780_166187	NW_004515906.1	Scaffold433	166187	CC	AA	1946948243
SNP_P4_128781_166362	NW_004515906.1	Scaffold433	166362	GG	AA	1946948245

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_128783_166582	NW_004515906.1	Scaffold433	166582	GG	CC	1946948249
SNP_P4_128784_166595	NW_004515906.1	Scaffold433	166595	CC	TT	1946948251
SNP_P4_128785_166648	NW_004515906.1	Scaffold433	166648	GG	AA	1946948253
SNP_P4_128786_166672	NW_004515906.1	Scaffold433	166672	TT	CC	1946948255
SNP_P4_128787_166676	NW_004515906.1	Scaffold433	166676	TT	GG	1946948257
SNP_P4_128788_166739	NW_004515906.1	Scaffold433	166739	GG	AA	1946948259
SNP_P4_128789_166798	NW_004515906.1	Scaffold433	166798	GG	TT	1946948261
SNP_P4_128790_166823	NW_004515906.1	Scaffold433	166823	TT	CC	1946948263
SNP_P4_128791_166860	NW_004515906.1	Scaffold433	166860	AA	TT	1946948265
SNP_P4_128792_168975	NW_004515906.1	Scaffold433	168975	AA	GG	1946948267
SNP_P4_128793_169253	NW_004515906.1	Scaffold433	169253	CC	AA	1946948269
SNP_P4_128794_169461	NW_004515906.1	Scaffold433	169461	AA	GG	1946948271
SNP_P4_128796_169505	NW_004515906.1	Scaffold433	169505	GG	AA	1946948273
SNP_P4_128797_169519	NW_004515906.1	Scaffold433	169519	TT	CC	1946948275
SNP_P4_128798_169587	NW_004515906.1	Scaffold433	169587	GG	AA	1946948277
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SNP_P4_128800_169880	NW_004515906.1	Scaffold433	169880	TT	CC	1946948281
SNP_P4_128801_1910	NW_004515908.1	Scaffold435	1910	GG	AA	1946948283
SNP_P4_128802_5816	NW_004515908.1	Scaffold435	5816	AA	CC	1946948285
SNP_P4_128803_5818	NW_004515908.1	Scaffold435	5818	CC	TT	1946948287
SNP_P4_128804_6072	NW_004515908.1	Scaffold435	6072	GG	AA	1946948289
SNP_P4_128805_33709	NW_004515908.1	Scaffold435	33709	CC	AA	1946948291
SNP_P4_128806_36641	NW_004515908.1	Scaffold435	36641	CC	TT	1946948293
SNP_P4_128807_40898	NW_004515908.1	Scaffold435	40898	AA	GG	1946948295
SNP_P4_128808_50112	NW_004515908.1	Scaffold435	50112	TT	AA	1946948298
SNP_P4_128809_50123	NW_004515908.1	Scaffold435	50123	TT	CC	1946948300
SNP_P4_128810_50124	NW_004515908.1	Scaffold435	50124	TT	AA	1946948302
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SNP_P4_128816_109064	NW_004515908.1	Scaffold435	109064	CC	TT	1946948310
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SNP_P4_128821_109426	NW_004515908.1	Scaffold435	109426	TT	CC	1946948320
SNP_P4_128822_109438	NW_004515908.1	Scaffold435	109438	CC	AA	1946948322
SNP_P4_128823_109503	NW_004515908.1	Scaffold435	109503	CC	AA	1946948324
SNP_P4_128824_134876	NW_004515908.1	Scaffold435	134876	TT	CC	1946948326
SNP_P4_128825_1163	NW_004515909.1	Scaffold436	1163	TT	CC	1946948328
SNP_P4_128826_1260	NW_004515909.1	Scaffold436	1260	TT	AA	1946948330

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_128827_1526	NW_004515909.1	Scaffold436	1526	CC	GG	1946948332
SNP_P4_128828_1552	NW_004515909.1	Scaffold436	1552	CC	TT	1946948334
SNP_P4_128829_1595	NW_004515909.1	Scaffold436	1595	CC	TT	1946948336
SNP_P4_128830_1685	NW_004515909.1	Scaffold436	1685	AA	TT	1946948338
SNP_P4_128831_2290	NW_004515909.1	Scaffold436	2290	GG	TT	1946948340
SNP_P4_128832_2302	NW_004515909.1	Scaffold436	2302	AA	TT	1946948342
SNP_P4_128833_2311	NW_004515909.1	Scaffold436	2311	AA	TT	1946948344
SNP_P4_128834_2314	NW_004515909.1	Scaffold436	2314	AA	TT	1946948346
SNP_P4_128835_2363	NW_004515909.1	Scaffold436	2363	GG	AA	1946948348
SNP_P4_128836_2431	NW_004515909.1	Scaffold436	2431	TT	CC	1946948350
SNP_P4_128837_2563	NW_004515909.1	Scaffold436	2563	CC	TT	1946948352
SNP_P4_128838_2697	NW_004515909.1	Scaffold436	2697	AA	TT	1946948354
SNP_P4_128839_2720	NW_004515909.1	Scaffold436	2720	CC	TT	1946948356
SNP_P4_128840_3767	NW_004515909.1	Scaffold436	3767	AA	GG	1946948358
SNP_P4_128841_3918	NW_004515909.1	Scaffold436	3918	GG	CC	1946948360
SNP_P4_128842_4177	NW_004515909.1	Scaffold436	4177	AA	CC	1946948362
SNP_P4_128843_4413	NW_004515909.1	Scaffold436	4413	GG	TT	1946948364
SNP_P4_128844_4498	NW_004515909.1	Scaffold436	4498	AA	TT	1946948366
SNP_P4_128845_4507	NW_004515909.1	Scaffold436	4507	GG	AA	1946948368
SNP_P4_128846_5591	NW_004515909.1	Scaffold436	5591	AA	TT	1946948370
SNP_P4_128847_5901	NW_004515909.1	Scaffold436	5901	GG	TT	1946948372
SNP_P4_128848_5911	NW_004515909.1	Scaffold436	5911	CC	AA	1946948374
SNP_P4_128849_5935	NW_004515909.1	Scaffold436	5935	AA	GG	1946948376
SNP_P4_128850_6066	NW_004515909.1	Scaffold436	6066	TT	AA	1946948378
SNP_P4_128851_9910	NW_004515909.1	Scaffold436	9910	TT	AA	1946948381
SNP_P4_128852_9930	NW_004515909.1	Scaffold436	9930	GG	CC	1946948383
SNP_P4_128853_9938	NW_004515909.1	Scaffold436	9938	TT	CC	1946948385
SNP_P4_128854_10241	NW_004515909.1	Scaffold436	10241	AA	GG	1946948387
SNP_P4_128855_19862	NW_004515909.1	Scaffold436	19862	GG	AA	1946948389
SNP_P4_128856_20165	NW_004515909.1	Scaffold436	20165	AA	TT	1946948390
SNP_P4_128857_34175	NW_004515909.1	Scaffold436	34175	AA	GG	1946948392
SNP_P4_128858_34184	NW_004515909.1	Scaffold436	34184	GG	AA	1946948394
SNP_P4_128859_35324	NW_004515909.1	Scaffold436	35324	TT	CC	1946948396
SNP_P4_128860_35633	NW_004515909.1	Scaffold436	35633	AA	GG	1946948398
SNP_P4_128861_38060	NW_004515909.1	Scaffold436	38060	GG	AA	1946948400
SNP_P4_128862_38067	NW_004515909.1	Scaffold436	38067	TT	GG	1946948402
SNP_P4_128863_38123	NW_004515909.1	Scaffold436	38123	TT	CC	1946948404
SNP_P4_128864_55472	NW_004515909.1	Scaffold436	55472	GG	AA	1946948406
SNP_P4_128865_55519	NW_004515909.1	Scaffold436	55519	AA	GG	1946948408
SNP_P4_128866_58711	NW_004515909.1	Scaffold436	58711	TT	CC	1946948410
SNP_P4_128868_60697	NW_004515909.1	Scaffold436	60697	AA	CC	1946948412
SNP_P4_128869_65639	NW_004515909.1	Scaffold436	65639	CC	AA	1946948414

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_128873_68789	NW_004515909.1	Scaffold436	68789	AA	GG	1946948418
SNP_P4_128874_73971	NW_004515909.1	Scaffold436	73971	CC	TT	1946948420
SNP_P4_128875_74019	NW_004515909.1	Scaffold436	74019	CC	TT	1946948422
SNP_P4_128876_74072	NW_004515909.1	Scaffold436	74072	GG	AA	1946948424
SNP_P4_128877_74081	NW_004515909.1	Scaffold436	74081	TT	AA	1946948426
SNP_P4_128878_74352	NW_004515909.1	Scaffold436	74352	TT	CC	1946948428
SNP_P4_128879_74355	NW_004515909.1	Scaffold436	74355	CC	AA	1946948429
SNP_P4_128880_2226	NW_004515910.1	Scaffold437	2226	AA	GG	1946948431
SNP_P4_128881_2379	NW_004515910.1	Scaffold437	2379	TT	GG	1946948433
SNP_P4_128882_2550	NW_004515910.1	Scaffold437	2550	GG	AA	1946948435
SNP_P4_128883_2737	NW_004515910.1	Scaffold437	2737	AA	GG	1946948437
SNP_P4_128884_2744	NW_004515910.1	Scaffold437	2744	CC	TT	1946948439
SNP_P4_128885_2770	NW_004515910.1	Scaffold437	2770	AA	GG	1946948441
SNP_P4_128887_3005	NW_004515910.1	Scaffold437	3005	CC	AA	1946948443
SNP_P4_128888_3046	NW_004515910.1	Scaffold437	3046	TT	CC	1946948445
SNP_P4_128889_3076	NW_004515910.1	Scaffold437	3076	AA	GG	1946948447
SNP_P4_128890_3975	NW_004515910.1	Scaffold437	3975	CC	TT	1946948449
SNP_P4_128891_4086	NW_004515910.1	Scaffold437	4086	AA	GG	1946948451
SNP_P4_128892_4090	NW_004515910.1	Scaffold437	4090	TT	AA	1946948452
SNP_P4_128893_4101	NW_004515910.1	Scaffold437	4101	TT	AA	1946948454
SNP_P4_128894_4103	NW_004515910.1	Scaffold437	4103	TT	CC	1946948456
SNP_P4_128895_4119	NW_004515910.1	Scaffold437	4119	TT	CC	1946948458
SNP_P4_128896_4502	NW_004515910.1	Scaffold437	4502	AA	TT	1946948460
SNP_P4_128897_4525	NW_004515910.1	Scaffold437	4525	TT	GG	1946948462
SNP_P4_128898_4640	NW_004515910.1	Scaffold437	4640	AA	CC	1946948464
SNP_P4_128899_4688	NW_004515910.1	Scaffold437	4688	TT	CC	1946948466
SNP_P4_128900_4758	NW_004515910.1	Scaffold437	4758	AA	GG	1946948468
SNP_P4_128901_4767	NW_004515910.1	Scaffold437	4767	CC	GG	1946948470
SNP_P4_128902_4801	NW_004515910.1	Scaffold437	4801	CC	AA	1946948472
SNP_P4_128903_15134	NW_004515910.1	Scaffold437	15134	CC	GG	1946948474
SNP_P4_128904_21131	NW_004515910.1	Scaffold437	21131	AA	GG	1946948476
SNP_P4_128906_24504	NW_004515910.1	Scaffold437	24504	TT	CC	1946948478
SNP_P4_128907_26615	NW_004515910.1	Scaffold437	26615	GG	AA	1946948480
SNP_P4_128908_26616	NW_004515910.1	Scaffold437	26616	AA	CC	1946948482
SNP_P4_128909_27208	NW_004515910.1	Scaffold437	27208	GG	AA	1946948484
SNP_P4_128910_28236	NW_004515910.1	Scaffold437	28236	TT	AA	1946948486
SNP_P4_128911_28280	NW_004515910.1	Scaffold437	28280	TT	AA	1946948488
SNP_P4_128912_28283	NW_004515910.1	Scaffold437	28283	TT	AA	1946948490
SNP_P4_128913_28295	NW_004515910.1	Scaffold437	28295	AA	GG	1946948492
SNP_P4_128914_28331	NW_004515910.1	Scaffold437	28331	AA	GG	1946948494
SNP_P4_128915_28347	NW_004515910.1	Scaffold437	28347	CC	TT	1946948496

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_128917_28403	NW_004515910.1	Scaffold437	28403	TT	AA	1946948500
SNP_P4_128918_28618	NW_004515910.1	Scaffold437	28618	GG	AA	1946948502
SNP_P4_128919_28623	NW_004515910.1	Scaffold437	28623	GG	AA	1946948504
SNP_P4_128920_28635	NW_004515910.1	Scaffold437	28635	GG	TT	1946948506
SNP_P4_128921_30934	NW_004515910.1	Scaffold437	30934	AA	TT	1946948508
SNP_P4_128922_34629	NW_004515910.1	Scaffold437	34629	GG	AA	1946948510
SNP_P4_128923_34631	NW_004515910.1	Scaffold437	34631	AA	GG	1946948512
SNP_P4_128924_34868	NW_004515910.1	Scaffold437	34868	CC	AA	1946948514
SNP_P4_128925_34869	NW_004515910.1	Scaffold437	34869	AA	TT	1946948516
SNP_P4_128926_34870	NW_004515910.1	Scaffold437	34870	TT	AA	1946948518
SNP_P4_128927_34926	NW_004515910.1	Scaffold437	34926	GG	AA	1946948520
SNP_P4_128928_34962	NW_004515910.1	Scaffold437	34962	TT	CC	1946948522
SNP_P4_128929_34963	NW_004515910.1	Scaffold437	34963	CC	AA	1946948524
SNP_P4_128930_34986	NW_004515910.1	Scaffold437	34986	TT	CC	1946948526
SNP_P4_128931_35033	NW_004515910.1	Scaffold437	35033	CC	TT	1946948528
SNP_P4_128932_35056	NW_004515910.1	Scaffold437	35056	TT	CC	1946948530
SNP_P4_128933_35090	NW_004515910.1	Scaffold437	35090	AA	GG	1946948531
SNP_P4_128934_35128	NW_004515910.1	Scaffold437	35128	TT	CC	1946948533
SNP_P4_128935_35145	NW_004515910.1	Scaffold437	35145	AA	GG	1946948535
SNP_P4_128936_35173	NW_004515910.1	Scaffold437	35173	AA	GG	1946948537
SNP_P4_128937_35202	NW_004515910.1	Scaffold437	35202	TT	CC	1946948539
SNP_P4_128938_35665	NW_004515910.1	Scaffold437	35665	AA	CC	1946948541
SNP_P4_128939_35673	NW_004515910.1	Scaffold437	35673	GG	TT	1946948543
SNP_P4_128940_35674	NW_004515910.1	Scaffold437	35674	TT	AA	1946948545
SNP_P4_128941_35693	NW_004515910.1	Scaffold437	35693	AA	TT	1946948547
SNP_P4_128942_35742	NW_004515910.1	Scaffold437	35742	TT	AA	1946948549
SNP_P4_128943_35759	NW_004515910.1	Scaffold437	35759	CC	TT	1946948551
SNP_P4_128944_35763	NW_004515910.1	Scaffold437	35763	TT	CC	1946948552
SNP_P4_128945_37779	NW_004515910.1	Scaffold437	37779	CC	TT	1946948554
SNP_P4_128946_39234	NW_004515910.1	Scaffold437	39234	CC	TT	1946948556
SNP_P4_128947_41462	NW_004515910.1	Scaffold437	41462	TT	AA	1946948558
SNP_P4_128948_42294	NW_004515910.1	Scaffold437	42294	CC	TT	1946948560
SNP_P4_128949_45212	NW_004515910.1	Scaffold437	45212	CC	TT	1946948562
SNP_P4_128951_50133	NW_004515910.1	Scaffold437	50133	GG	AA	1946948564
SNP_P4_128952_50625	NW_004515910.1	Scaffold437	50625	AA	GG	1946948566
SNP_P4_128953_50648	NW_004515910.1	Scaffold437	50648	CC	TT	1946948568
SNP_P4_128954_50649	NW_004515910.1	Scaffold437	50649	AA	TT	1946948570
SNP_P4_128955_50655	NW_004515910.1	Scaffold437	50655	AA	CC	1946948572
SNP_P4_128956_52276	NW_004515910.1	Scaffold437	52276	GG	AA	1946948574
SNP_P4_128957_52314	NW_004515910.1	Scaffold437	52314	TT	CC	1946948576
SNP_P4_128958_52330	NW_004515910.1	Scaffold437	52330	GG	TT	1946948578

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_128961_57246	NW_004515910.1	Scaffold437	57246	TT	CC	1946948584
SNP_P4_128962_60347	NW_004515910.1	Scaffold437	60347	GG	TT	1946948586
SNP_P4_128963_60348	NW_004515910.1	Scaffold437	60348	TT	CC	1946948588
SNP_P4_128964_60389	NW_004515910.1	Scaffold437	60389	AA	CC	1946948590
SNP_P4_128965_60494	NW_004515910.1	Scaffold437	60494	TT	AA	1946948592
SNP_P4_128966_60497	NW_004515910.1	Scaffold437	60497	GG	AA	1946948594
SNP_P4_128967_63475	NW_004515910.1	Scaffold437	63475	CC	AA	1946948596
SNP_P4_128970_70252	NW_004515910.1	Scaffold437	70252	AA	TT	1946948598
SNP_P4_128971_70352	NW_004515910.1	Scaffold437	70352	TT	CC	1946948600
SNP_P4_128972_72340	NW_004515910.1	Scaffold437	72340	CC	TT	1946948601
SNP_P4_128974_482	NW_004515911.1	Scaffold438	482	CC	TT	1946948603
SNP_P4_128975_932	NW_004515911.1	Scaffold438	932	TT	GG	1946948605
SNP_P4_128976_1633	NW_004515911.1	Scaffold438	1633	AA	GG	1946948607
SNP_P4_128977_1639	NW_004515911.1	Scaffold438	1639	TT	CC	1946948609
SNP_P4_128978_1657	NW_004515911.1	Scaffold438	1657	GG	AA	1946948611
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SNP_P4_128980_1697	NW_004515911.1	Scaffold438	1697	TT	CC	1946948615
SNP_P4_128981_1789	NW_004515911.1	Scaffold438	1789	AA	GG	1946948617
SNP_P4_128982_1855	NW_004515911.1	Scaffold438	1855	CC	TT	1946948619
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SNP_P4_128984_1969	NW_004515911.1	Scaffold438	1969	AA	GG	1946948623
SNP_P4_128985_2125	NW_004515911.1	Scaffold438	2125	TT	GG	1946948625
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SNP_P4_128995_6766	NW_004515911.1	Scaffold438	6766	CC	TT	1946948645
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SNP_P4_129002_6879	NW_004515911.1	Scaffold438	6879	AA	TT	1946948658
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_129006_48072	NW_004515911.1	Scaffold438	48072	CC	GG	1946948666
SNP_P4_129007_48964	NW_004515911.1	Scaffold438	48964	CC	AA	1946948668
SNP_P4_129008_48965	NW_004515911.1	Scaffold438	48965	CC	TT	1946948670
SNP_P4_129010_68637	NW_004515911.1	Scaffold438	68637	TT	CC	1946948672
SNP_P4_129011_72362	NW_004515911.1	Scaffold438	72362	TT	GG	1946948674
SNP_P4_129012_74860	NW_004515911.1	Scaffold438	74860	CC	AA	1946948676
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SNP_P4_129014_74936	NW_004515911.1	Scaffold438	74936	AA	TT	1946948680
SNP_P4_129015_74963	NW_004515911.1	Scaffold438	74963	TT	GG	1946948682
SNP_P4_129016_74994	NW_004515911.1	Scaffold438	74994	TT	CC	1946948684
SNP_P4_129017_75021	NW_004515911.1	Scaffold438	75021	AA	GG	1946948686
SNP_P4_129018_75051	NW_004515911.1	Scaffold438	75051	TT	CC	1946948688
SNP_P4_129019_75053	NW_004515911.1	Scaffold438	75053	AA	CC	1946948690
SNP_P4_129020_75078	NW_004515911.1	Scaffold438	75078	AA	GG	1946948692
SNP_P4_129021_75087	NW_004515911.1	Scaffold438	75087	AA	GG	1946948694
SNP_P4_129022_76867	NW_004515911.1	Scaffold438	76867	CC	AA	1946948696
SNP_P4_129023_76901	NW_004515911.1	Scaffold438	76901	TT	GG	1946948698
SNP_P4_129024_82204	NW_004515911.1	Scaffold438	82204	CC	TT	1946948700
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SNP_P4_129027_97942	NW_004515911.1	Scaffold438	97942	CC	TT	1946948706
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SNP_P4_129032_98015	NW_004515911.1	Scaffold438	98015	AA	CC	1946948715
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SNP_P4_129037_98217	NW_004515911.1	Scaffold438	98217	TT	AA	1946948725
SNP_P4_129038_98218	NW_004515911.1	Scaffold438	98218	TT	CC	1946948727
SNP_P4_129039_98220	NW_004515911.1	Scaffold438	98220	TT	AA	1946948729
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SNP_P4_129041_98261	NW_004515911.1	Scaffold438	98261	GG	TT	1946948733
SNP_P4_129042_98277	NW_004515911.1	Scaffold438	98277	CC	TT	1946948735
SNP_P4_129043_98286	NW_004515911.1	Scaffold438	98286	TT	GG	1946948737
SNP_P4_129044_98300	NW_004515911.1	Scaffold438	98300	CC	GG	1946948739
SNP_P4_129045_98522	NW_004515911.1	Scaffold438	98522	AA	GG	1946948741
SNP_P4_129046_98542	NW_004515911.1	Scaffold438	98542	CC	TT	1946948743

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_129047_98553	NW_004515911.1	Scaffold438	98553	CC	TT	1946948744
SNP_P4_129048_99588	NW_004515911.1	Scaffold438	99588	CC	TT	1946948746
SNP_P4_129049_108034	NW_004515911.1	Scaffold438	108034	AA	GG	1946948748
SNP_P4_129050_8190	NW_004515912.1	Scaffold440	8190	TT	AA	1946948750
SNP_P4_129051_8196	NW_004515912.1	Scaffold440	8196	TT	CC	1946948752
SNP_P4_129053_12069	NW_004515912.1	Scaffold440	12069	GG	AA	1946948754
SNP_P4_129055_20649	NW_004515912.1	Scaffold440	20649	AA	GG	1946948756
SNP_P4_129056_20675	NW_004515912.1	Scaffold440	20675	TT	GG	1946948758
SNP_P4_129057_20709	NW_004515912.1	Scaffold440	20709	TT	CC	1946948760
SNP_P4_129058_20719	NW_004515912.1	Scaffold440	20719	TT	GG	1946948762
SNP_P4_129059_23172	NW_004515912.1	Scaffold440	23172	GG	CC	1946948764
SNP_P4_129060_30117	NW_004515912.1	Scaffold440	30117	CC	AA	1946948766
SNP_P4_129061_30165	NW_004515912.1	Scaffold440	30165	AA	GG	1946948768
SNP_P4_129062_30196	NW_004515912.1	Scaffold440	30196	CC	AA	1946948770
SNP_P4_129064_30308	NW_004515912.1	Scaffold440	30308	GG	TT	1946948772
SNP_P4_129065_30455	NW_004515912.1	Scaffold440	30455	CC	GG	1946948774
SNP_P4_129066_30473	NW_004515912.1	Scaffold440	30473	GG	TT	1946948777
SNP_P4_129068_30542	NW_004515912.1	Scaffold440	30542	CC	TT	1946948779
SNP_P4_129069_30553	NW_004515912.1	Scaffold440	30553	GG	CC	1946948781
SNP_P4_129070_30584	NW_004515912.1	Scaffold440	30584	AA	CC	1946948783
SNP_P4_129071_31335	NW_004515912.1	Scaffold440	31335	GG	AA	1946948785
SNP_P4_129072_32582	NW_004515912.1	Scaffold440	32582	AA	CC	1946948787
SNP_P4_129073_32593	NW_004515912.1	Scaffold440	32593	AA	GG	1946948789
SNP_P4_129074_43800	NW_004515912.1	Scaffold440	43800	GG	CC	1946948791
SNP_P4_129076_47380	NW_004515912.1	Scaffold440	47380	TT	GG	1946948793
SNP_P4_129077_14418	NW_004515913.1	Scaffold441	14418	CC	TT	1946948795
SNP_P4_129078_14419	NW_004515913.1	Scaffold441	14419	AA	GG	1946948797
SNP_P4_129079_14569	NW_004515913.1	Scaffold441	14569	TT	AA	1946948799
SNP_P4_129080_14705	NW_004515913.1	Scaffold441	14705	TT	CC	1946948802
SNP_P4_129081_14745	NW_004515913.1	Scaffold441	14745	GG	AA	1946948804
SNP_P4_129082_21308	NW_004515913.1	Scaffold441	21308	CC	AA	1946948806
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SNP_P4_129084_33549	NW_004515913.1	Scaffold441	33549	AA	CC	1946948810
SNP_P4_129085_33743	NW_004515913.1	Scaffold441	33743	CC	AA	1946948812
SNP_P4_129086_34043	NW_004515913.1	Scaffold441	34043	CC	AA	1946948814
SNP_P4_129087_34048	NW_004515913.1	Scaffold441	34048	TT	AA	1946948816
SNP_P4_129088_34127	NW_004515913.1	Scaffold441	34127	GG	AA	1946948818
SNP_P4_129089_11005	NW_004515914.1	Scaffold442	11005	GG	AA	1946948820
SNP_P4_129090_14513	NW_004515914.1	Scaffold442	14513	AA	CC	1946948822
SNP_P4_129091_14719	NW_004515914.1	Scaffold442	14719	TT	CC	1946948824
SNP_P4_129092_14823	NW_004515914.1	Scaffold442	14823	GG	AA	1946948826
SNP_P4_129094_21746	NW_004515914.1	Scaffold442	21746	CC	AA	1946948828

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_129096_21764	NW_004515914.1	Scaffold442	21764	TT	AA	1946948832
SNP_P4_129097_21769	NW_004515914.1	Scaffold442	21769	GG	CC	1946948834
SNP_P4_129098_21779	NW_004515914.1	Scaffold442	21779	CC	AA	1946948836
SNP_P4_129099_22083	NW_004515914.1	Scaffold442	22083	AA	GG	1946948838
SNP_P4_129100_22087	NW_004515914.1	Scaffold442	22087	TT	AA	1946948840
SNP_P4_129101_35007	NW_004515914.1	Scaffold442	35007	GG	AA	1946948842
SNP_P4_129102_35605	NW_004515914.1	Scaffold442	35605	CC	TT	1946948844
SNP_P4_129103_35606	NW_004515914.1	Scaffold442	35606	GG	TT	1946948846
SNP_P4_129104_36427	NW_004515914.1	Scaffold442	36427	CC	TT	1946948848
SNP_P4_129105_36428	NW_004515914.1	Scaffold442	36428	TT	GG	1946948850
SNP_P4_129106_36448	NW_004515914.1	Scaffold442	36448	AA	CC	1946948852
SNP_P4_129107_36721	NW_004515914.1	Scaffold442	36721	TT	CC	1946948854
SNP_P4_129108_36811	NW_004515914.1	Scaffold442	36811	TT	AA	1946948856
SNP_P4_129109_36812	NW_004515914.1	Scaffold442	36812	AA	TT	1946948858
SNP_P4_129110_36964	NW_004515914.1	Scaffold442	36964	AA	GG	1946948860
SNP_P4_129111_37093	NW_004515914.1	Scaffold442	37093	CC	TT	1946948862
SNP_P4_129113_37203	NW_004515914.1	Scaffold442	37203	CC	AA	1946948864
SNP_P4_129114_41529	NW_004515914.1	Scaffold442	41529	GG	AA	1946948866
SNP_P4_129115_41619	NW_004515914.1	Scaffold442	41619	CC	TT	1946948868
SNP_P4_129116_42664	NW_004515914.1	Scaffold442	42664	AA	GG	1946948870
SNP_P4_129117_43377	NW_004515914.1	Scaffold442	43377	TT	AA	1946948872
SNP_P4_129118_43420	NW_004515914.1	Scaffold442	43420	AA	GG	1946948874
SNP_P4_129119_50129	NW_004515914.1	Scaffold442	50129	CC	TT	1946948876
SNP_P4_129120_50873	NW_004515914.1	Scaffold442	50873	CC	GG	1946948878
SNP_P4_129121_55728	NW_004515914.1	Scaffold442	55728	GG	AA	1946948880
SNP_P4_129122_61993	NW_004515914.1	Scaffold442	61993	TT	CC	1946948882
SNP_P4_129123_61995	NW_004515914.1	Scaffold442	61995	TT	AA	1946948884
SNP_P4_129124_62008	NW_004515914.1	Scaffold442	62008	CC	AA	1946948886
SNP_P4_129125_62022	NW_004515914.1	Scaffold442	62022	AA	TT	1946948888
SNP_P4_129126_62023	NW_004515914.1	Scaffold442	62023	CC	TT	1946948890
SNP_P4_129127_62606	NW_004515914.1	Scaffold442	62606	GG	AA	1946948892
SNP_P4_129128_62925	NW_004515914.1	Scaffold442	62925	CC	TT	1946948894
SNP_P4_129129_71407	NW_004515914.1	Scaffold442	71407	TT	GG	1946948896
SNP_P4_129130_71565	NW_004515914.1	Scaffold442	71565	TT	CC	1946948898
SNP_P4_129131_82654	NW_004515914.1	Scaffold442	82654	AA	TT	1946948900
SNP_P4_129132_2565	NW_004515916.1	Scaffold446	2565	TT	AA	1946948902
SNP_P4_129133_2589	NW_004515916.1	Scaffold446	2589	TT	AA	1946948904
SNP_P4_129134_2622	NW_004515916.1	Scaffold446	2622	TT	AA	1946948906
SNP_P4_129135_2643	NW_004515916.1	Scaffold446	2643	GG	CC	1946948908
SNP_P4_129136_2650	NW_004515916.1	Scaffold446	2650	AA	CC	1946948910
SNP_P4_129137_2885	NW_004515916.1	Scaffold446	2885	TT	CC	1946948912

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_129139_12783	NW_004515916.1	Scaffold446	12783	GG	AA	1946948915
SNP_P4_129140_12786	NW_004515916.1	Scaffold446	12786	GG	AA	1946948917
SNP_P4_129141_12792	NW_004515916.1	Scaffold446	12792	CC	TT	1946948919
SNP_P4_129142_12795	NW_004515916.1	Scaffold446	12795	AA	GG	1946948921
SNP_P4_129143_12807	NW_004515916.1	Scaffold446	12807	AA	GG	1946948923
SNP_P4_129144_12837	NW_004515916.1	Scaffold446	12837	CC	TT	1946948925
SNP_P4_129145_12861	NW_004515916.1	Scaffold446	12861	TT	CC	1946948927
SNP_P4_129146_12880	NW_004515916.1	Scaffold446	12880	TT	AA	1946948929
SNP_P4_129147_12900	NW_004515916.1	Scaffold446	12900	AA	TT	1946948931
SNP_P4_129148_12961	NW_004515916.1	Scaffold446	12961	TT	AA	1946948933
SNP_P4_129149_13047	NW_004515916.1	Scaffold446	13047	GG	TT	1946948935
SNP_P4_129150_13285	NW_004515916.1	Scaffold446	13285	GG	AA	1946948937
SNP_P4_129151_13297	NW_004515916.1	Scaffold446	13297	GG	AA	1946948939
SNP_P4_129152_13327	NW_004515916.1	Scaffold446	13327	GG	AA	1946948941
SNP_P4_129153_13372	NW_004515916.1	Scaffold446	13372	AA	TT	1946948943
SNP_P4_129154_13374	NW_004515916.1	Scaffold446	13374	GG	AA	1946948945
SNP_P4_129155_13375	NW_004515916.1	Scaffold446	13375	GG	AA	1946948947
SNP_P4_129156_14415	NW_004515916.1	Scaffold446	14415	TT	CC	1946948949
SNP_P4_129157_20351	NW_004515916.1	Scaffold446	20351	GG	TT	1946948951
SNP_P4_129158_20368	NW_004515916.1	Scaffold446	20368	CC	GG	1946948953
SNP_P4_129159_34216	NW_004515916.1	Scaffold446	34216	TT	AA	1946948955
SNP_P4_129160_34229	NW_004515916.1	Scaffold446	34229	GG	AA	1946948957
SNP_P4_129161_34236	NW_004515916.1	Scaffold446	34236	AA	TT	1946948959
SNP_P4_129162_34445	NW_004515916.1	Scaffold446	34445	AA	GG	1946948961
SNP_P4_129163_34450	NW_004515916.1	Scaffold446	34450	TT	CC	1946948963
SNP_P4_129164_36452	NW_004515916.1	Scaffold446	36452	AA	CC	1946948965
SNP_P4_129165_36461	NW_004515916.1	Scaffold446	36461	AA	TT	1946948967
SNP_P4_129166_44634	NW_004515916.1	Scaffold446	44634	TT	GG	1946948969
SNP_P4_129167_50715	NW_004515916.1	Scaffold446	50715	GG	AA	1946948971
SNP_P4_129168_54617	NW_004515916.1	Scaffold446	54617	AA	TT	1946948973
SNP_P4_129169_54620	NW_004515916.1	Scaffold446	54620	CC	TT	1946948975
SNP_P4_129171_65404	NW_004515916.1	Scaffold446	65404	AA	GG	1946948977
SNP_P4_129172_65751	NW_004515916.1	Scaffold446	65751	GG	AA	1946948979
SNP_P4_129173_65922	NW_004515916.1	Scaffold446	65922	TT	GG	1946948981
SNP_P4_129174_65983	NW_004515916.1	Scaffold446	65983	CC	TT	1946948983
SNP_P4_129175_66062	NW_004515916.1	Scaffold446	66062	GG	TT	1946948985
SNP_P4_129176_66066	NW_004515916.1	Scaffold446	66066	TT	CC	1946948987
SNP_P4_129177_66127	NW_004515916.1	Scaffold446	66127	TT	AA	1946948989
SNP_P4_129178_66134	NW_004515916.1	Scaffold446	66134	TT	CC	1946948991
SNP_P4_129179_66181	NW_004515916.1	Scaffold446	66181	AA	CC	1946948993
SNP_P4_129180_66188	NW_004515916.1	Scaffold446	66188	CC	AA	1946948995

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_129182_66216	NW_004515916.1	Scaffold446	66216	GG	AA	1946948999
SNP_P4_129183_66222	NW_004515916.1	Scaffold446	66222	CC	AA	1946949001
SNP_P4_129184_66248	NW_004515916.1	Scaffold446	66248	CC	AA	1946949003
SNP_P4_129185_66249	NW_004515916.1	Scaffold446	66249	TT	CC	1946949005
SNP_P4_129186_66259	NW_004515916.1	Scaffold446	66259	AA	CC	1946949007
SNP_P4_129187_66275	NW_004515916.1	Scaffold446	66275	TT	CC	1946949009
SNP_P4_129188_66285	NW_004515916.1	Scaffold446	66285	CC	AA	1946949011
SNP_P4_129189_66385	NW_004515916.1	Scaffold446	66385	CC	GG	1946949013
SNP_P4_129190_66435	NW_004515916.1	Scaffold446	66435	GG	CC	1946949016
SNP_P4_129191_66510	NW_004515916.1	Scaffold446	66510	CC	AA	1946949018
SNP_P4_129192_66598	NW_004515916.1	Scaffold446	66598	TT	AA	1946949020
SNP_P4_129193_66600	NW_004515916.1	Scaffold446	66600	GG	TT	1946949022
SNP_P4_129194_66695	NW_004515916.1	Scaffold446	66695	TT	AA	1946949024
SNP_P4_129195_66699	NW_004515916.1	Scaffold446	66699	AA	GG	1946949026
SNP_P4_129196_67577	NW_004515916.1	Scaffold446	67577	CC	AA	1946949028
SNP_P4_129197_67629	NW_004515916.1	Scaffold446	67629	CC	AA	1946949030
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SNP_P4_129200_67774	NW_004515916.1	Scaffold446	67774	TT	CC	1946949036
SNP_P4_129202_67848	NW_004515916.1	Scaffold446	67848	AA	TT	1946949038
SNP_P4_129203_67862	NW_004515916.1	Scaffold446	67862	AA	TT	1946949040
SNP_P4_129204_67874	NW_004515916.1	Scaffold446	67874	TT	AA	1946949042
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SNP_P4_129208_67971	NW_004515916.1	Scaffold446	67971	AA	TT	1946949050
SNP_P4_129209_67985	NW_004515916.1	Scaffold446	67985	AA	TT	1946949052
SNP_P4_129210_68014	NW_004515916.1	Scaffold446	68014	TT	AA	1946949053
SNP_P4_129211_68106	NW_004515916.1	Scaffold446	68106	TT	AA	1946949055
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SNP_P4_129215_80090	NW_004515916.1	Scaffold446	80090	GG	CC	1946949063
SNP_P4_129216_80515	NW_004515916.1	Scaffold446	80515	TT	CC	1946949065
SNP_P4_129217_80764	NW_004515916.1	Scaffold446	80764	TT	AA	1946949067
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SNP_P4_129219_80787	NW_004515916.1	Scaffold446	80787	AA	CC	1946949071
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SNP_P4_129221_80836	NW_004515916.1	Scaffold446	80836	TT	CC	1946949075
SNP_P4_129222_81427	NW_004515916.1	Scaffold446	81427	TT	CC	1946949077
SNP_P4_129223_82047	NW_004515916.1	Scaffold446	82047	AA	CC	1946949079

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SNP_P4_129226_82151	NW_004515916.1	Scaffold446	82151	CC	TT	1946949083
SNP_P4_129227_82176	NW_004515916.1	Scaffold446	82176	AA	TT	1946949085
SNP_P4_129228_82320	NW_004515916.1	Scaffold446	82320	GG	TT	1946949087
SNP_P4_129229_82534	NW_004515916.1	Scaffold446	82534	AA	CC	1946949089
SNP_P4_129230_84380	NW_004515916.1	Scaffold446	84380	CC	AA	1946949091
SNP_P4_129231_84623	NW_004515916.1	Scaffold446	84623	CC	TT	1946949093
SNP_P4_129232_84626	NW_004515916.1	Scaffold446	84626	CC	GG	1946949095
SNP_P4_129233_85453	NW_004515916.1	Scaffold446	85453	CC	GG	1946949097
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SNP_P4_129236_91877	NW_004515916.1	Scaffold446	91877	GG	AA	1946949102
SNP_P4_129237_92257	NW_004515916.1	Scaffold446	92257	TT	CC	1946949104
SNP_P4_129238_94878	NW_004515916.1	Scaffold446	94878	GG	AA	1946949106
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SNP_P4_129243_99328	NW_004515916.1	Scaffold446	99328	GG	AA	1946949116
SNP_P4_129244_99338	NW_004515916.1	Scaffold446	99338	CC	TT	1946949118
SNP_P4_129245_99372	NW_004515916.1	Scaffold446	99372	CC	TT	1946949120
SNP_P4_129246_99397	NW_004515916.1	Scaffold446	99397	TT	CC	1946949122
SNP_P4_129247_99435	NW_004515916.1	Scaffold446	99435	GG	AA	1946949124
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SNP_P4_129256_100701	NW_004515916.1	Scaffold446	100701	CC	AA	1946949141
SNP_P4_129257_102135	NW_004515916.1	Scaffold446	102135	GG	CC	1946949143
SNP_P4_129258_102615	NW_004515916.1	Scaffold446	102615	GG	CC	1946949145
SNP_P4_129259_106575	NW_004515916.1	Scaffold446	106575	AA	GG	1946949147
SNP_P4_129260_106598	NW_004515916.1	Scaffold446	106598	TT	CC	1946949149
SNP_P4_129261_109650	NW_004515916.1	Scaffold446	109650	GG	CC	1946949151
SNP_P4_129262_109831	NW_004515916.1	Scaffold446	109831	TT	CC	1946949153
SNP_P4_129263_109858	NW_004515916.1	Scaffold446	109858	CC	TT	1946949155
SNP_P4_129264_109902	NW_004515916.1	Scaffold446	109902	AA	CC	1946949157
SNP_P4_129265_110186	NW_004515916.1	Scaffold446	110186	TT	AA	1946949159
SNP_P4_129266_110343	NW_004515916.1	Scaffold446	110343	AA	TT	1946949161

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_129267_117998	NW_004515916.1	Scaffold446	117998	TT	CC	1946949163
SNP_P4_129268_118052	NW_004515916.1	Scaffold446	118052	GG	CC	1946949165
SNP_P4_129269_118071	NW_004515916.1	Scaffold446	118071	CC	TT	1946949167
SNP_P4_129270_118085	NW_004515916.1	Scaffold446	118085	TT	CC	1946949169
SNP_P4_129271_118849	NW_004515916.1	Scaffold446	118849	AA	GG	1946949171
SNP_P4_129272_122676	NW_004515916.1	Scaffold446	122676	AA	CC	1946949173
SNP_P4_129273_124912	NW_004515916.1	Scaffold446	124912	GG	AA	1946949175
SNP_P4_129274_124928	NW_004515916.1	Scaffold446	124928	TT	GG	1946949177
SNP_P4_129275_124942	NW_004515916.1	Scaffold446	124942	GG	AA	1946949179
SNP_P4_129276_133667	NW_004515916.1	Scaffold446	133667	GG	TT	1946949181
SNP_P4_129277_133692	NW_004515916.1	Scaffold446	133692	AA	GG	1946949183
SNP_P4_129278_133701	NW_004515916.1	Scaffold446	133701	AA	GG	1946949185
SNP_P4_129279_133783	NW_004515916.1	Scaffold446	133783	TT	GG	1946949187
SNP_P4_129280_133807	NW_004515916.1	Scaffold446	133807	TT	CC	1946949189
SNP_P4_129281_133888	NW_004515916.1	Scaffold446	133888	AA	TT	1946949191
SNP_P4_129282_133892	NW_004515916.1	Scaffold446	133892	GG	CC	1946949193
SNP_P4_129283_133896	NW_004515916.1	Scaffold446	133896	GG	AA	1946949195
SNP_P4_129284_133897	NW_004515916.1	Scaffold446	133897	AA	GG	1946949197
SNP_P4_129285_134096	NW_004515916.1	Scaffold446	134096	AA	GG	1946949199
SNP_P4_129286_134174	NW_004515916.1	Scaffold446	134174	CC	AA	1946949201
SNP_P4_129287_134213	NW_004515916.1	Scaffold446	134213	GG	TT	1946949203
SNP_P4_129288_135780	NW_004515916.1	Scaffold446	135780	AA	TT	1946949205
SNP_P4_129289_135790	NW_004515916.1	Scaffold446	135790	TT	AA	1946949207
SNP_P4_129290_136202	NW_004515916.1	Scaffold446	136202	AA	TT	1946949209
SNP_P4_129291_144042	NW_004515916.1	Scaffold446	144042	CC	TT	1946949211
SNP_P4_129292_144044	NW_004515916.1	Scaffold446	144044	AA	CC	1946949213
SNP_P4_129293_144194	NW_004515916.1	Scaffold446	144194	TT	CC	1946949215
SNP_P4_129294_144220	NW_004515916.1	Scaffold446	144220	AA	GG	1946949217
SNP_P4_129295_145008	NW_004515916.1	Scaffold446	145008	GG	CC	1946949219
SNP_P4_129296_145185	NW_004515916.1	Scaffold446	145185	AA	GG	1946949221
SNP_P4_129297_151235	NW_004515916.1	Scaffold446	151235	TT	AA	1946949223
SNP_P4_129298_151373	NW_004515916.1	Scaffold446	151373	TT	AA	1946949225
SNP_P4_129299_151374	NW_004515916.1	Scaffold446	151374	AA	TT	1946949227
SNP_P4_129300_151620	NW_004515916.1	Scaffold446	151620	CC	TT	1946949229
SNP_P4_129301_153752	NW_004515916.1	Scaffold446	153752	CC	TT	1946949231
SNP_P4_129302_153794	NW_004515916.1	Scaffold446	153794	TT	AA	1946949233
SNP_P4_129303_153830	NW_004515916.1	Scaffold446	153830	CC	TT	1946949235
SNP_P4_129304_153836	NW_004515916.1	Scaffold446	153836	AA	CC	1946949237
SNP_P4_129305_156864	NW_004515916.1	Scaffold446	156864	TT	CC	1946949239
SNP_P4_129306_156956	NW_004515916.1	Scaffold446	156956	CC	TT	1946949241
SNP_P4_129307_156999	NW_004515916.1	Scaffold446	156999	TT	CC	1946949243
SNP_P4_129308_157027	NW_004515916.1	Scaffold446	157027	AA	TT	1946949245

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_129310_157055	NW_004515916.1	Scaffold446	157055	TT	GG	1946949249
SNP_P4_129311_157109	NW_004515916.1	Scaffold446	157109	GG	AA	1946949251
SNP_P4_129312_157112	NW_004515916.1	Scaffold446	157112	AA	TT	1946949254
SNP_P4_129313_157139	NW_004515916.1	Scaffold446	157139	GG	TT	1946949256
SNP_P4_129314_157145	NW_004515916.1	Scaffold446	157145	CC	TT	1946949258
SNP_P4_129315_157357	NW_004515916.1	Scaffold446	157357	GG	AA	1946949260
SNP_P4_129316_157382	NW_004515916.1	Scaffold446	157382	CC	GG	1946949262
SNP_P4_129317_157480	NW_004515916.1	Scaffold446	157480	TT	CC	1946949264
SNP_P4_129318_161089	NW_004515916.1	Scaffold446	161089	AA	GG	1946949266
SNP_P4_129319_161470	NW_004515916.1	Scaffold446	161470	AA	GG	1946949268
SNP_P4_129320_161516	NW_004515916.1	Scaffold446	161516	CC	TT	1946949270
SNP_P4_129321_163449	NW_004515916.1	Scaffold446	163449	CC	TT	1946949272
SNP_P4_129322_163487	NW_004515916.1	Scaffold446	163487	CC	TT	1946949274
SNP_P4_129324_163765	NW_004515916.1	Scaffold446	163765	TT	GG	1946949276
SNP_P4_129325_163774	NW_004515916.1	Scaffold446	163774	CC	TT	1946949278
SNP_P4_129326_163783	NW_004515916.1	Scaffold446	163783	TT	CC	1946949280
SNP_P4_129327_163790	NW_004515916.1	Scaffold446	163790	TT	CC	1946949282
SNP_P4_129328_163805	NW_004515916.1	Scaffold446	163805	CC	TT	1946949284
SNP_P4_129329_163831	NW_004515916.1	Scaffold446	163831	AA	GG	1946949286
SNP_P4_129330_163873	NW_004515916.1	Scaffold446	163873	AA	GG	1946949288
SNP_P4_129331_164280	NW_004515916.1	Scaffold446	164280	TT	CC	1946949290
SNP_P4_129332_164317	NW_004515916.1	Scaffold446	164317	AA	GG	1946949292
SNP_P4_129333_164354	NW_004515916.1	Scaffold446	164354	GG	TT	1946949294
SNP_P4_129334_164380	NW_004515916.1	Scaffold446	164380	TT	AA	1946949296
SNP_P4_129335_164387	NW_004515916.1	Scaffold446	164387	TT	CC	1946949298
SNP_P4_129336_165014	NW_004515916.1	Scaffold446	165014	GG	AA	1946949300
SNP_P4_129337_165044	NW_004515916.1	Scaffold446	165044	TT	CC	1946949302
SNP_P4_129338_165388	NW_004515916.1	Scaffold446	165388	GG	TT	1946949304
SNP_P4_129339_165435	NW_004515916.1	Scaffold446	165435	TT	CC	1946949306
SNP_P4_129340_165543	NW_004515916.1	Scaffold446	165543	GG	TT	1946949308
SNP_P4_129341_165850	NW_004515916.1	Scaffold446	165850	TT	AA	1946949310
SNP_P4_129342_166119	NW_004515916.1	Scaffold446	166119	GG	AA	1946949312
SNP_P4_129343_166749	NW_004515916.1	Scaffold446	166749	AA	GG	1946949314
SNP_P4_129344_166775	NW_004515916.1	Scaffold446	166775	TT	CC	1946949316
SNP_P4_129345_166779	NW_004515916.1	Scaffold446	166779	TT	CC	1946949318
SNP_P4_129346_166789	NW_004515916.1	Scaffold446	166789	TT	CC	1946949320
SNP_P4_129347_166790	NW_004515916.1	Scaffold446	166790	TT	CC	1946949322
SNP_P4_129348_166815	NW_004515916.1	Scaffold446	166815	AA	TT	1946949324
SNP_P4_129349_166884	NW_004515916.1	Scaffold446	166884	AA	GG	1946949326
SNP_P4_129350_167601	NW_004515916.1	Scaffold446	167601	CC	AA	1946949328
SNP_P4_129351_168020	NW_004515916.1	Scaffold446	168020	AA	CC	1946949330

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_129354_171680	NW_004515916.1	Scaffold446	171680	GG	AA	1946949336
SNP_P4_129355_171681	NW_004515916.1	Scaffold446	171681	CC	TT	1946949338
SNP_P4_129356_171884	NW_004515916.1	Scaffold446	171884	GG	AA	1946949340
SNP_P4_129357_171955	NW_004515916.1	Scaffold446	171955	TT	CC	1946949342
SNP_P4_129358_172029	NW_004515916.1	Scaffold446	172029	GG	AA	1946949344
SNP_P4_129359_177224	NW_004515916.1	Scaffold446	177224	TT	AA	1946949346
SNP_P4_129360_177238	NW_004515916.1	Scaffold446	177238	TT	GG	1946949348
SNP_P4_129361_177258	NW_004515916.1	Scaffold446	177258	GG	TT	1946949350
SNP_P4_129362_177300	NW_004515916.1	Scaffold446	177300	GG	CC	1946949352
SNP_P4_129363_177303	NW_004515916.1	Scaffold446	177303	GG	AA	1946949354
SNP_P4_129364_177487	NW_004515916.1	Scaffold446	177487	GG	TT	1946949356
SNP_P4_129365_177500	NW_004515916.1	Scaffold446	177500	TT	CC	1946949358
SNP_P4_129366_177530	NW_004515916.1	Scaffold446	177530	GG	TT	1946949360
SNP_P4_129367_177565	NW_004515916.1	Scaffold446	177565	AA	CC	1946949362
SNP_P4_129368_181102	NW_004515916.1	Scaffold446	181102	TT	AA	1946949364
SNP_P4_129369_181379	NW_004515916.1	Scaffold446	181379	TT	CC	1946949366
SNP_P4_129370_181380	NW_004515916.1	Scaffold446	181380	AA	CC	1946949368
SNP_P4_129371_181590	NW_004515916.1	Scaffold446	181590	AA	GG	1946949370
SNP_P4_129372_185256	NW_004515916.1	Scaffold446	185256	TT	AA	1946949372
SNP_P4_129373_186598	NW_004515916.1	Scaffold446	186598	AA	TT	1946949374
SNP_P4_129374_186616	NW_004515916.1	Scaffold446	186616	GG	AA	1946949376
SNP_P4_129376_195330	NW_004515916.1	Scaffold446	195330	AA	TT	1946949378
SNP_P4_129377_195331	NW_004515916.1	Scaffold446	195331	TT	AA	1946949380
SNP_P4_129378_201037	NW_004515916.1	Scaffold446	201037	CC	GG	1946949382
SNP_P4_129379_201043	NW_004515916.1	Scaffold446	201043	AA	TT	1946949384
SNP_P4_129380_202451	NW_004515916.1	Scaffold446	202451	AA	GG	1946949386
SNP_P4_129381_213446	NW_004515916.1	Scaffold446	213446	GG	AA	1946949388
SNP_P4_129382_215587	NW_004515916.1	Scaffold446	215587	TT	GG	1946949390
SNP_P4_129384_224789	NW_004515916.1	Scaffold446	224789	TT	CC	1946949392
SNP_P4_129385_224811	NW_004515916.1	Scaffold446	224811	GG	TT	1946949394
SNP_P4_129386_224814	NW_004515916.1	Scaffold446	224814	GG	CC	1946949396
SNP_P4_129387_227923	NW_004515916.1	Scaffold446	227923	TT	CC	1946949399
SNP_P4_129388_232535	NW_004515916.1	Scaffold446	232535	AA	CC	1946949401
SNP_P4_129389_232609	NW_004515916.1	Scaffold446	232609	TT	AA	1946949403
SNP_P4_129390_232773	NW_004515916.1	Scaffold446	232773	AA	GG	1946949405
SNP_P4_129391_232801	NW_004515916.1	Scaffold446	232801	GG	AA	1946949407
SNP_P4_129392_233142	NW_004515916.1	Scaffold446	233142	AA	TT	1946949409
SNP_P4_129393_233189	NW_004515916.1	Scaffold446	233189	AA	GG	1946949411
SNP_P4_129394_233375	NW_004515916.1	Scaffold446	233375	CC	TT	1946949413
SNP_P4_129395_233376	NW_004515916.1	Scaffold446	233376	AA	GG	1946949415

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_129398_235007	NW_004515916.1	Scaffold446	235007	AA	TT	1946949419
SNP_P4_129399_235018	NW_004515916.1	Scaffold446	235018	TT	CC	1946949421
SNP_P4_129400_235311	NW_004515916.1	Scaffold446	235311	GG	AA	1946949423
SNP_P4_129401_235319	NW_004515916.1	Scaffold446	235319	TT	CC	1946949425
SNP_P4_129403_235753	NW_004515916.1	Scaffold446	235753	TT	CC	1946949427
SNP_P4_129404_245341	NW_004515916.1	Scaffold446	245341	GG	TT	1946949429
SNP_P4_129405_245391	NW_004515916.1	Scaffold446	245391	AA	GG	1946949431
SNP_P4_129406_250299	NW_004515916.1	Scaffold446	250299	AA	GG	1946949433
SNP_P4_129407_250952	NW_004515916.1	Scaffold446	250952	AA	GG	1946949435
SNP_P4_129408_255937	NW_004515916.1	Scaffold446	255937	TT	CC	1946949437
SNP_P4_129409_256473	NW_004515916.1	Scaffold446	256473	TT	AA	1946949439
SNP_P4_129410_256488	NW_004515916.1	Scaffold446	256488	CC	AA	1946949441
SNP_P4_129411_256518	NW_004515916.1	Scaffold446	256518	CC	TT	1946949443
SNP_P4_129412_260340	NW_004515916.1	Scaffold446	260340	TT	AA	1946949445
SNP_P4_129413_260484	NW_004515916.1	Scaffold446	260484	TT	CC	1946949447
SNP_P4_129414_260614	NW_004515916.1	Scaffold446	260614	TT	AA	1946949449
SNP_P4_129415_260631	NW_004515916.1	Scaffold446	260631	AA	TT	1946949451
SNP_P4_129416_260648	NW_004515916.1	Scaffold446	260648	TT	AA	1946949453
SNP_P4_129417_260875	NW_004515916.1	Scaffold446	260875	GG	AA	1946949455
SNP_P4_129418_260930	NW_004515916.1	Scaffold446	260930	TT	GG	1946949457
SNP_P4_129419_260939	NW_004515916.1	Scaffold446	260939	AA	CC	1946949459
SNP_P4_129421_267440	NW_004515916.1	Scaffold446	267440	GG	AA	1946949461
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SNP_P4_129424_267597	NW_004515916.1	Scaffold446	267597	AA	GG	1946949467
SNP_P4_129425_267616	NW_004515916.1	Scaffold446	267616	TT	CC	1946949469
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SNP_P4_129428_28901	NW_004515917.1	Scaffold450	28901	GG	TT	1946949475
SNP_P4_129429_66559	NW_004515917.1	Scaffold450	66559	GG	AA	1946949477
SNP_P4_129430_66722	NW_004515917.1	Scaffold450	66722	AA	GG	1946949479
SNP_P4_129431_66723	NW_004515917.1	Scaffold450	66723	CC	TT	1946949481
SNP_P4_129432_72900	NW_004515917.1	Scaffold450	72900	GG	AA	1946949483
SNP_P4_129433_77408	NW_004515917.1	Scaffold450	77408	AA	GG	1946949485
SNP_P4_129434_93026	NW_004515917.1	Scaffold450	93026	GG	AA	1946949487
SNP_P4_129435_104339	NW_004515917.1	Scaffold450	104339	TT	CC	1946949489
SNP_P4_129436_104560	NW_004515917.1	Scaffold450	104560	AA	GG	1946949491
SNP_P4_129437_105160	NW_004515917.1	Scaffold450	105160	AA	GG	1946949492
SNP_P4_129438_105205	NW_004515917.1	Scaffold450	105205	GG	AA	1946949494
SNP_P4_129439_108470	NW_004515917.1	Scaffold450	108470	TT	CC	1946949496
SNP_P4_129441_108913	NW_004515917.1	Scaffold450	108913	TT	CC	1946949498

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_129444_119353	NW_004515917.1	Scaffold450	119353	TT	GG	1946949504
SNP_P4_129445_129957	NW_004515917.1	Scaffold450	129957	AA	CC	1946949506
SNP_P4_129446_133781	NW_004515917.1	Scaffold450	133781	CC	AA	1946949508
SNP_P4_129447_133790	NW_004515917.1	Scaffold450	133790	TT	GG	1946949510
SNP_P4_129449_133829	NW_004515917.1	Scaffold450	133829	AA	TT	1946949512
SNP_P4_129450_134006	NW_004515917.1	Scaffold450	134006	AA	GG	1946949514
SNP_P4_129451_134024	NW_004515917.1	Scaffold450	134024	AA	CC	1946949516
SNP_P4_129452_134367	NW_004515917.1	Scaffold450	134367	TT	CC	1946949518
SNP_P4_129453_143927	NW_004515917.1	Scaffold450	143927	GG	CC	1946949520
SNP_P4_129454_152961	NW_004515917.1	Scaffold450	152961	TT	CC	1946949522
SNP_P4_129455_162200	NW_004515917.1	Scaffold450	162200	GG	AA	1946949524
SNP_P4_129456_177801	NW_004515917.1	Scaffold450	177801	TT	GG	1946949526
SNP_P4_129457_178222	NW_004515917.1	Scaffold450	178222	AA	GG	1946949528
SNP_P4_129458_178256	NW_004515917.1	Scaffold450	178256	TT	CC	1946949530
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SNP_P4_129460_193202	NW_004515917.1	Scaffold450	193202	GG	AA	1946949534
SNP_P4_129461_193238	NW_004515917.1	Scaffold450	193238	CC	GG	1946949536
SNP_P4_129462_197097	NW_004515917.1	Scaffold450	197097	CC	TT	1946949538
SNP_P4_129463_202733	NW_004515917.1	Scaffold450	202733	CC	TT	1946949540
SNP_P4_129464_202868	NW_004515917.1	Scaffold450	202868	CC	GG	1946949542
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SNP_P4_129467_205092	NW_004515917.1	Scaffold450	205092	GG	AA	1946949546
SNP_P4_129469_235342	NW_004515917.1	Scaffold450	235342	AA	CC	1946949548
SNP_P4_129470_235369	NW_004515917.1	Scaffold450	235369	CC	AA	1946949550
SNP_P4_129471_235436	NW_004515917.1	Scaffold450	235436	AA	GG	1946949552
SNP_P4_129472_235449	NW_004515917.1	Scaffold450	235449	AA	GG	1946949554
SNP_P4_129473_235459	NW_004515917.1	Scaffold450	235459	CC	AA	1946949556
SNP_P4_129474_235488	NW_004515917.1	Scaffold450	235488	GG	AA	1946949558
SNP_P4_129475_235727	NW_004515917.1	Scaffold450	235727	AA	GG	1946949560
SNP_P4_129476_235752	NW_004515917.1	Scaffold450	235752	CC	GG	1946949562
SNP_P4_129477_235789	NW_004515917.1	Scaffold450	235789	TT	CC	1946949564
SNP_P4_129478_235811	NW_004515917.1	Scaffold450	235811	AA	GG	1946949566
SNP_P4_129479_235851	NW_004515917.1	Scaffold450	235851	TT	AA	1946949568
SNP_P4_129480_235857	NW_004515917.1	Scaffold450	235857	AA	TT	1946949570
SNP_P4_129481_235859	NW_004515917.1	Scaffold450	235859	TT	GG	1946949572
SNP_P4_129482_236242	NW_004515917.1	Scaffold450	236242	CC	AA	1946949574
SNP_P4_129483_241307	NW_004515917.1	Scaffold450	241307	AA	GG	1946949576
SNP_P4_129484_241310	NW_004515917.1	Scaffold450	241310	AA	CC	1946949578
SNP_P4_129485_241627	NW_004515917.1	Scaffold450	241627	TT	CC	1946949580
SNP_P4_129486_313585	NW_004515917.1	Scaffold450	313585	TT	GG	1946949582

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_129488_415897	NW_004515917.1	Scaffold450	415897	TT	GG	1946949587
SNP_P4_129489_427885	NW_004515917.1	Scaffold450	427885	TT	CC	1946949589
SNP_P4_129490_431953	NW_004515917.1	Scaffold450	431953	TT	CC	1946949591
SNP_P4_129491_431984	NW_004515917.1	Scaffold450	431984	AA	CC	1946949593
SNP_P4_129492_459242	NW_004515917.1	Scaffold450	459242	TT	CC	1946949595
SNP_P4_129493_459459	NW_004515917.1	Scaffold450	459459	TT	GG	1946949597
SNP_P4_129494_459500	NW_004515917.1	Scaffold450	459500	AA	TT	1946949599
SNP_P4_129495_459507	NW_004515917.1	Scaffold450	459507	TT	GG	1946949601
SNP_P4_129496_470142	NW_004515917.1	Scaffold450	470142	CC	TT	1946949603
SNP_P4_129497_471020	NW_004515917.1	Scaffold450	471020	AA	GG	1946949605
SNP_P4_129498_471102	NW_004515917.1	Scaffold450	471102	AA	CC	1946949607
SNP_P4_129499_476131	NW_004515917.1	Scaffold450	476131	AA	GG	1946949609
SNP_P4_129500_478022	NW_004515917.1	Scaffold450	478022	AA	CC	1946949611
SNP_P4_129501_482331	NW_004515917.1	Scaffold450	482331	CC	TT	1946949612
SNP_P4_129502_482361	NW_004515917.1	Scaffold450	482361	GG	CC	1946949614
SNP_P4_129503_482624	NW_004515917.1	Scaffold450	482624	AA	CC	1946949616
SNP_P4_129504_496319	NW_004515917.1	Scaffold450	496319	GG	AA	1946949618
SNP_P4_129505_497825	NW_004515917.1	Scaffold450	497825	TT	AA	1946949620
SNP_P4_129506_498689	NW_004515917.1	Scaffold450	498689	TT	AA	1946949622
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SNP_P4_129522_510610	NW_004515917.1	Scaffold450	510610	CC	GG	1946949653
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SNP_P4_129525_517418	NW_004515917.1	Scaffold450	517418	TT	AA	1946949657
SNP_P4_129526_517807	NW_004515917.1	Scaffold450	517807	TT	CC	1946949659
SNP_P4_129527_518133	NW_004515917.1	Scaffold450	518133	GG	TT	1946949661
SNP_P4_129528_518135	NW_004515917.1	Scaffold450	518135	CC	TT	1946949663
SNP_P4_129529_518148	NW_004515917.1	Scaffold450	518148	TT	CC	1946949665

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_129532_518517	NW_004515917.1	Scaffold450	518517	CC	AA	1946949671
SNP_P4_129533_518542	NW_004515917.1	Scaffold450	518542	AA	GG	1946949673
SNP_P4_129534_518661	NW_004515917.1	Scaffold450	518661	TT	CC	1946949675
SNP_P4_129535_518791	NW_004515917.1	Scaffold450	518791	CC	TT	1946949677
SNP_P4_129536_518792	NW_004515917.1	Scaffold450	518792	GG	AA	1946949679
SNP_P4_129537_518820	NW_004515917.1	Scaffold450	518820	TT	GG	1946949681
SNP_P4_129538_522272	NW_004515917.1	Scaffold450	522272	AA	GG	1946949682
SNP_P4_129539_1328	NW_004515918.1	Scaffold451	1328	TT	CC	1946949684
SNP_P4_129540_5224	NW_004515918.1	Scaffold451	5224	AA	GG	1946949686
SNP_P4_129541_11190	NW_004515918.1	Scaffold451	11190	TT	GG	1946949688
SNP_P4_129542_19210	NW_004515918.1	Scaffold451	19210	AA	GG	1946949690
SNP_P4_129543_19950	NW_004515918.1	Scaffold451	19950	AA	TT	1946949692
SNP_P4_129544_21267	NW_004515918.1	Scaffold451	21267	AA	CC	1946949694
SNP_P4_129545_21281	NW_004515918.1	Scaffold451	21281	AA	GG	1946949696
SNP_P4_129546_22435	NW_004515918.1	Scaffold451	22435	TT	CC	1946949698
SNP_P4_129547_23622	NW_004515918.1	Scaffold451	23622	TT	AA	1946949700
SNP_P4_129548_23942	NW_004515918.1	Scaffold451	23942	CC	TT	1946949702
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SNP_P4_129551_28622	NW_004515918.1	Scaffold451	28622	GG	AA	1946949708
SNP_P4_129553_30234	NW_004515918.1	Scaffold451	30234	CC	TT	1946949710
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SNP_P4_129556_35319	NW_004515918.1	Scaffold451	35319	TT	GG	1946949713
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SNP_P4_129558_60882	NW_004515918.1	Scaffold451	60882	TT	CC	1946949717
SNP_P4_129559_61228	NW_004515918.1	Scaffold451	61228	AA	CC	1946949719
SNP_P4_129560_61920	NW_004515918.1	Scaffold451	61920	AA	GG	1946949721
SNP_P4_129561_65275	NW_004515918.1	Scaffold451	65275	TT	CC	1946949723
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SNP_P4_129564_65509	NW_004515918.1	Scaffold451	65509	TT	GG	1946949727
SNP_P4_129565_67286	NW_004515918.1	Scaffold451	67286	TT	AA	1946949729
SNP_P4_129566_74148	NW_004515918.1	Scaffold451	74148	TT	CC	1946949731
SNP_P4_129567_77803	NW_004515918.1	Scaffold451	77803	AA	GG	1946949733
SNP_P4_129568_78357	NW_004515918.1	Scaffold451	78357	TT	CC	1946949735
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SNP_P4_129572_111965	NW_004515918.1	Scaffold451	111965	AA	TT	1946949741
SNP_P4_129573_134656	NW_004515918.1	Scaffold451	134656	TT	CC	1946949742
SNP_P4_129574_135299	NW_004515918.1	Scaffold451	135299	CC	TT	1946949744
SNP_P4_129575_142890	NW_004515918.1	Scaffold451	142890	AA	GG	1946949746

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_129578_199966	NW_004515918.1	Scaffold451	199966	GG	AA	1946949752
SNP_P4_129579_205938	NW_004515918.1	Scaffold451	205938	TT	AA	1946949754
SNP_P4_129580_205944	NW_004515918.1	Scaffold451	205944	AA	TT	1946949756
SNP_P4_129581_281028	NW_004515918.1	Scaffold451	281028	TT	CC	1946949758
SNP_P4_129583_289713	NW_004515918.1	Scaffold451	289713	AA	CC	1946949760
SNP_P4_129584_300188	NW_004515918.1	Scaffold451	300188	TT	GG	1946949762
SNP_P4_129585_320597	NW_004515918.1	Scaffold451	320597	TT	GG	1946949764
SNP_P4_129586_326460	NW_004515918.1	Scaffold451	326460	CC	TT	1946949766
SNP_P4_129587_326510	NW_004515918.1	Scaffold451	326510	CC	TT	1946949768
SNP_P4_129588_326681	NW_004515918.1	Scaffold451	326681	GG	TT	1946949769
SNP_P4_129589_326690	NW_004515918.1	Scaffold451	326690	TT	GG	1946949771
SNP_P4_129590_326739	NW_004515918.1	Scaffold451	326739	AA	GG	1946949773
SNP_P4_129591_349649	NW_004515918.1	Scaffold451	349649	CC	AA	1946949775
SNP_P4_129592_349655	NW_004515918.1	Scaffold451	349655	GG	TT	1946949777
SNP_P4_129593_349656	NW_004515918.1	Scaffold451	349656	TT	AA	1946949779
SNP_P4_129594_349698	NW_004515918.1	Scaffold451	349698	AA	GG	1946949781
SNP_P4_129595_349746	NW_004515918.1	Scaffold451	349746	AA	TT	1946949783
SNP_P4_129596_349758	NW_004515918.1	Scaffold451	349758	TT	CC	1946949785
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SNP_P4_129603_379502	NW_004515918.1	Scaffold451	379502	TT	CC	1946949799
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SNP_P4_129607_388867	NW_004515918.1	Scaffold451	388867	TT	AA	1946949805
SNP_P4_129609_390325	NW_004515918.1	Scaffold451	390325	GG	TT	1946949807
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SNP_P4_129614_390693	NW_004515918.1	Scaffold451	390693	CC	TT	1946949814
SNP_P4_129615_390709	NW_004515918.1	Scaffold451	390709	AA	CC	1946949816
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SNP_P4_129617_403727	NW_004515918.1	Scaffold451	403727	AA	CC	1946949820
SNP_P4_129618_429783	NW_004515918.1	Scaffold451	429783	GG	TT	1946949822
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SNP_P4_129621_480658	NW_004515918.1	Scaffold451	480658	GG	AA	1946949826
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_129627_491458	NW_004515918.1	Scaffold451	491458	TT	CC	1946949836
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SNP_P4_129630_513842	NW_004515918.1	Scaffold451	513842	AA	GG	1946949841
SNP_P4_129632_518514	NW_004515918.1	Scaffold451	518514	AA	TT	1946949843
SNP_P4_129633_519463	NW_004515918.1	Scaffold451	519463	GG	AA	1946949845
SNP_P4_129634_519514	NW_004515918.1	Scaffold451	519514	CC	TT	1946949847
SNP_P4_129635_608	NW_004515919.1	Scaffold452	608	TT	CC	1946949849
SNP_P4_129636_1752	NW_004515919.1	Scaffold452	1752	TT	AA	1946949851
SNP_P4_129637_2564	NW_004515919.1	Scaffold452	2564	TT	CC	1946949853
SNP_P4_129638_2880	NW_004515919.1	Scaffold452	2880	CC	AA	1946949855
SNP_P4_129639_3163	NW_004515919.1	Scaffold452	3163	TT	CC	1946949857
SNP_P4_129640_4618	NW_004515919.1	Scaffold452	4618	AA	TT	1946949859
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SNP_P4_129642_4864	NW_004515919.1	Scaffold452	4864	CC	TT	1946949863
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SNP_P4_129666_109546	NW_004515920.1	Scaffold453	109546	GG	TT	1946949897
SNP_P4_129667_120863	NW_004515920.1	Scaffold453	120863	GG	AA	1946949899
SNP_P4_129668_134614	NW_004515920.1	Scaffold453	134614	TT	CC	1946949901

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_129672_167092	NW_004515920.1	Scaffold453	167092	AA	GG	1946949906
SNP_P4_129673_168111	NW_004515920.1	Scaffold453	168111	TT	CC	1946949908
SNP_P4_129674_206282	NW_004515920.1	Scaffold453	206282	TT	GG	1946949910
SNP_P4_129675_206421	NW_004515920.1	Scaffold453	206421	TT	GG	1946949912
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SNP_P4_129678_206599	NW_004515920.1	Scaffold453	206599	CC	TT	1946949918
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SNP_P4_129681_273978	NW_004515920.1	Scaffold453	273978	AA	GG	1946949922
SNP_P4_129682_282215	NW_004515920.1	Scaffold453	282215	GG	AA	1946949924
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SNP_P4_129700_386630	NW_004515920.1	Scaffold453	386630	CC	TT	1946949953
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SNP_P4_129702_401919	NW_004515920.1	Scaffold453	401919	TT	AA	1946949957
SNP_P4_129703_425936	NW_004515920.1	Scaffold453	425936	CC	TT	1946949959
SNP_P4_129704_441377	NW_004515920.1	Scaffold453	441377	TT	CC	1946949961
SNP_P4_129705_441684	NW_004515920.1	Scaffold453	441684	CC	TT	1946949963
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SNP_P4_129707_456340	NW_004515920.1	Scaffold453	456340	CC	TT	1946949967
SNP_P4_129709_476570	NW_004515920.1	Scaffold453	476570	TT	CC	1946949969
SNP_P4_129710_476617	NW_004515920.1	Scaffold453	476617	GG	AA	1946949971
SNP_P4_129711_481203	NW_004515920.1	Scaffold453	481203	AA	GG	1946949973
SNP_P4_129712_490927	NW_004515920.1	Scaffold453	490927	CC	TT	1946949975
SNP_P4_129713_495562	NW_004515920.1	Scaffold453	495562	GG	AA	1946949977
SNP_P4_129714_496017	NW_004515920.1	Scaffold453	496017	AA	GG	1946949979
SNP_P4_129717_497912	NW_004515920.1	Scaffold453	497912	CC	TT	1946949981
SNP_P4_129718_498045	NW_004515920.1	Scaffold453	498045	AA	GG	1946949983

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_129721_500386	NW_004515920.1	Scaffold453	500386	AA	TT	1946949987
SNP_P4_129722_500811	NW_004515920.1	Scaffold453	500811	AA	TT	1946949989
SNP_P4_129723_500828	NW_004515920.1	Scaffold453	500828	TT	AA	1946949991
SNP_P4_129724_501839	NW_004515920.1	Scaffold453	501839	TT	CC	1946949992
SNP_P4_129725_501986	NW_004515920.1	Scaffold453	501986	TT	GG	1946949994
SNP_P4_129726_502243	NW_004515920.1	Scaffold453	502243	CC	AA	1946949996
SNP_P4_129727_502622	NW_004515920.1	Scaffold453	502622	TT	CC	1946949998
SNP_P4_129728_502837	NW_004515920.1	Scaffold453	502837	CC	TT	1946950000
SNP_P4_129729_502854	NW_004515920.1	Scaffold453	502854	TT	GG	1946950002
SNP_P4_129730_502977	NW_004515920.1	Scaffold453	502977	GG	AA	1946950004
SNP_P4_129731_503019	NW_004515920.1	Scaffold453	503019	AA	GG	1946950006
SNP_P4_129732_503064	NW_004515920.1	Scaffold453	503064	CC	TT	1946950008
SNP_P4_129733_503156	NW_004515920.1	Scaffold453	503156	GG	TT	1946950010
SNP_P4_129734_503305	NW_004515920.1	Scaffold453	503305	AA	GG	1946950012
SNP_P4_129736_503731	NW_004515920.1	Scaffold453	503731	GG	TT	1946950014
SNP_P4_129737_503744	NW_004515920.1	Scaffold453	503744	CC	TT	1946950015
SNP_P4_129738_503919	NW_004515920.1	Scaffold453	503919	CC	TT	1946950017
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SNP_P4_129742_524164	NW_004515920.1	Scaffold453	524164	GG	CC	1946950021
SNP_P4_129744_526247	NW_004515920.1	Scaffold453	526247	CC	TT	1946950023
SNP_P4_129745_526268	NW_004515920.1	Scaffold453	526268	CC	TT	1946950025
SNP_P4_129746_526496	NW_004515920.1	Scaffold453	526496	GG	AA	1946950027
SNP_P4_129747_526518	NW_004515920.1	Scaffold453	526518	TT	CC	1946950029
SNP_P4_129748_526533	NW_004515920.1	Scaffold453	526533	TT	GG	1946950031
SNP_P4_129749_526592	NW_004515920.1	Scaffold453	526592	TT	CC	1946950032
SNP_P4_129750_529834	NW_004515920.1	Scaffold453	529834	GG	AA	1946950034
SNP_P4_129751_529915	NW_004515920.1	Scaffold453	529915	GG	AA	1946950036
SNP_P4_129752_530214	NW_004515920.1	Scaffold453	530214	TT	AA	1946950038
SNP_P4_129753_557	NW_004515921.1	Scaffold454	557	TT	GG	1946950040
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SNP_P4_129762_3974	NW_004515921.1	Scaffold454	3974	CC	TT	1946950058
SNP_P4_129763_3984	NW_004515921.1	Scaffold454	3984	AA	TT	1946950060
SNP_P4_129764_4084	NW_004515921.1	Scaffold454	4084	TT	GG	1946950062
SNP_P4_129765_9043	NW_004515923.1	Scaffold456	9043	TT	CC	1946950064

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_129767_9125	NW_004515923.1	Scaffold456	9125	TT	CC	1946950068
SNP_P4_129768_3490	NW_004515926.1	Scaffold461	3490	TT	AA	1946950070
SNP_P4_129769_3918	NW_004515926.1	Scaffold461	3918	TT	CC	1946950072
SNP_P4_129770_3957	NW_004515926.1	Scaffold461	3957	AA	GG	1946950074
SNP_P4_129771_5231	NW_004515926.1	Scaffold461	5231	CC	GG	1946950077
SNP_P4_129772_5236	NW_004515926.1	Scaffold461	5236	AA	GG	1946950079
SNP_P4_129773_5250	NW_004515926.1	Scaffold461	5250	GG	AA	1946950081
SNP_P4_129774_5253	NW_004515926.1	Scaffold461	5253	GG	AA	1946950083
SNP_P4_129775_5456	NW_004515926.1	Scaffold461	5456	TT	AA	1946950085
SNP_P4_129776_20157	NW_004515926.1	Scaffold461	20157	TT	CC	1946950087
SNP_P4_129777_22566	NW_004515926.1	Scaffold461	22566	AA	TT	1946950089
SNP_P4_129778_22619	NW_004515926.1	Scaffold461	22619	TT	CC	1946950091
SNP_P4_129779_22878	NW_004515926.1	Scaffold461	22878	AA	TT	1946950093
SNP_P4_129780_22886	NW_004515926.1	Scaffold461	22886	TT	CC	1946950095
SNP_P4_129781_22894	NW_004515926.1	Scaffold461	22894	TT	CC	1946950097
SNP_P4_129782_22896	NW_004515926.1	Scaffold461	22896	CC	TT	1946950099
SNP_P4_129783_22992	NW_004515926.1	Scaffold461	22992	CC	TT	1946950100
SNP_P4_129784_23012	NW_004515926.1	Scaffold461	23012	GG	TT	1946950102
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SNP_P4_129786_23019	NW_004515926.1	Scaffold461	23019	GG	AA	1946950106
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SNP_P4_129788_26208	NW_004515926.1	Scaffold461	26208	CC	GG	1946950110
SNP_P4_129789_26227	NW_004515926.1	Scaffold461	26227	CC	AA	1946950112
SNP_P4_129790_26325	NW_004515926.1	Scaffold461	26325	TT	GG	1946950114
SNP_P4_129791_26373	NW_004515926.1	Scaffold461	26373	AA	TT	1946950115
SNP_P4_129792_26393	NW_004515926.1	Scaffold461	26393	AA	TT	1946950117
SNP_P4_129793_6992	NW_004515928.1	Scaffold464	6992	GG	AA	1946950119
SNP_P4_129794_548	NW_004515930.1	Scaffold466	548	GG	TT	1946950121
SNP_P4_129795_552	NW_004515930.1	Scaffold466	552	AA	GG	1946950123
SNP_P4_129796_565	NW_004515930.1	Scaffold466	565	TT	CC	1946950125
SNP_P4_129797_614	NW_004515930.1	Scaffold466	614	GG	CC	1946950127
SNP_P4_129798_629	NW_004515930.1	Scaffold466	629	GG	AA	1946950129
SNP_P4_129799_631	NW_004515930.1	Scaffold466	631	TT	GG	1946950131
SNP_P4_129800_780	NW_004515930.1	Scaffold466	780	TT	AA	1946950133
SNP_P4_129801_3858	NW_004515930.1	Scaffold466	3858	CC	AA	1946950135
SNP_P4_129802_10021	NW_004515930.1	Scaffold466	10021	CC	AA	1946950137
SNP_P4_129803_10038	NW_004515930.1	Scaffold466	10038	TT	CC	1946950139
SNP_P4_129805_12183	NW_004515930.1	Scaffold466	12183	GG	AA	1946950141
SNP_P4_129806_12218	NW_004515930.1	Scaffold466	12218	GG	AA	1946950143
SNP_P4_129807_12402	NW_004515930.1	Scaffold466	12402	AA	CC	1946950145
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_129810_13993	NW_004515930.1	Scaffold466	13993	TT	CC	1946950150
SNP_P4_129811_14873	NW_004515930.1	Scaffold466	14873	GG	AA	1946950152
SNP_P4_129812_18803	NW_004515930.1	Scaffold466	18803	TT	CC	1946950154
SNP_P4_129813_18809	NW_004515930.1	Scaffold466	18809	AA	TT	1946950156
SNP_P4_129814_23635	NW_004515930.1	Scaffold466	23635	TT	AA	1946950158
SNP_P4_129815_32911	NW_004515930.1	Scaffold466	32911	TT	AA	1946950160
SNP_P4_129816_32912	NW_004515930.1	Scaffold466	32912	AA	GG	1946950162
SNP_P4_129817_38987	NW_004515930.1	Scaffold466	38987	AA	GG	1946950164
SNP_P4_129818_39047	NW_004515930.1	Scaffold466	39047	GG	AA	1946950166
SNP_P4_129819_39048	NW_004515930.1	Scaffold466	39048	TT	CC	1946950168
SNP_P4_129820_39099	NW_004515930.1	Scaffold466	39099	TT	CC	1946950170
SNP_P4_129821_41314	NW_004515930.1	Scaffold466	41314	GG	CC	1946950172
SNP_P4_129822_43261	NW_004515930.1	Scaffold466	43261	TT	GG	1946950174
SNP_P4_129823_49255	NW_004515930.1	Scaffold466	49255	GG	CC	1946950176
SNP_P4_129824_60172	NW_004515930.1	Scaffold466	60172	CC	AA	1946950178
SNP_P4_129825_66245	NW_004515930.1	Scaffold466	66245	CC	TT	1946950180
SNP_P4_129826_72461	NW_004515930.1	Scaffold466	72461	AA	GG	1946950182
SNP_P4_129828_72785	NW_004515930.1	Scaffold466	72785	TT	CC	1946950183
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SNP_P4_129832_80641	NW_004515930.1	Scaffold466	80641	GG	TT	1946950188
SNP_P4_129833_80937	NW_004515930.1	Scaffold466	80937	TT	GG	1946950190
SNP_P4_129834_80938	NW_004515930.1	Scaffold466	80938	GG	AA	1946950192
SNP_P4_129835_101146	NW_004515930.1	Scaffold466	101146	AA	TT	1946950194
SNP_P4_129836_101157	NW_004515930.1	Scaffold466	101157	CC	TT	1946950196
SNP_P4_129837_102747	NW_004515930.1	Scaffold466	102747	TT	CC	1946950198
SNP_P4_129838_102856	NW_004515930.1	Scaffold466	102856	TT	CC	1946950200
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SNP_P4_129840_103131	NW_004515930.1	Scaffold466	103131	TT	GG	1946950204
SNP_P4_129841_103147	NW_004515930.1	Scaffold466	103147	CC	TT	1946950205
SNP_P4_129842_110834	NW_004515930.1	Scaffold466	110834	TT	AA	1946950207
SNP_P4_129843_112523	NW_004515930.1	Scaffold466	112523	CC	TT	1946950209
SNP_P4_129844_132863	NW_004515930.1	Scaffold466	132863	GG	AA	1946950211
SNP_P4_129845_133235	NW_004515930.1	Scaffold466	133235	AA	GG	1946950213
SNP_P4_129846_133491	NW_004515930.1	Scaffold466	133491	CC	TT	1946950215
SNP_P4_129847_133555	NW_004515930.1	Scaffold466	133555	AA	GG	1946950217
SNP_P4_129848_164008	NW_004515930.1	Scaffold466	164008	AA	GG	1946950219
SNP_P4_129849_164013	NW_004515930.1	Scaffold466	164013	TT	CC	1946950221
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SNP_P4_129851_164081	NW_004515930.1	Scaffold466	164081	TT	CC	1946950225

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_129856_164214	NW_004515930.1	Scaffold466	164214	TT	CC	1946950235
SNP_P4_129857_164265	NW_004515930.1	Scaffold466	164265	TT	CC	1946950237
SNP_P4_129858_164281	NW_004515930.1	Scaffold466	164281	AA	GG	1946950239
SNP_P4_129859_164292	NW_004515930.1	Scaffold466	164292	AA	GG	1946950241
SNP_P4_129860_164293	NW_004515930.1	Scaffold466	164293	CC	TT	1946950243
SNP_P4_129861_164295	NW_004515930.1	Scaffold466	164295	AA	GG	1946950245
SNP_P4_129862_164301	NW_004515930.1	Scaffold466	164301	TT	GG	1946950247
SNP_P4_129863_164304	NW_004515930.1	Scaffold466	164304	TT	AA	1946950249
SNP_P4_129864_164337	NW_004515930.1	Scaffold466	164337	TT	CC	1946950251
SNP_P4_129865_164353	NW_004515930.1	Scaffold466	164353	CC	GG	1946950253
SNP_P4_129866_164358	NW_004515930.1	Scaffold466	164358	TT	GG	1946950255
SNP_P4_129867_164381	NW_004515930.1	Scaffold466	164381	AA	GG	1946950257
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SNP_P4_129885_165968	NW_004515930.1	Scaffold466	165968	GG	TT	1946950293
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SNP_P4_129889_166114	NW_004515930.1	Scaffold466	166114	AA	GG	1946950301
SNP_P4_129890_166175	NW_004515930.1	Scaffold466	166175	TT	CC	1946950303
SNP_P4_129891_166211	NW_004515930.1	Scaffold466	166211	CC	TT	1946950305
SNP_P4_129892_166248	NW_004515930.1	Scaffold466	166248	TT	CC	1946950307
SNP_P4_129893_166249	NW_004515930.1	Scaffold466	166249	GG	CC	1946950309

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_129897_166680	NW_004515930.1	Scaffold466	166680	AA	CC	1946950315
SNP_P4_129898_166703	NW_004515930.1	Scaffold466	166703	TT	CC	1946950317
SNP_P4_129899_166788	NW_004515930.1	Scaffold466	166788	TT	CC	1946950319
SNP_P4_129900_166792	NW_004515930.1	Scaffold466	166792	AA	GG	1946950321
SNP_P4_129901_166836	NW_004515930.1	Scaffold466	166836	GG	AA	1946950323
SNP_P4_129902_166845	NW_004515930.1	Scaffold466	166845	AA	GG	1946950325
SNP_P4_129903_166850	NW_004515930.1	Scaffold466	166850	TT	CC	1946950327
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SNP_P4_129905_166916	NW_004515930.1	Scaffold466	166916	AA	TT	1946950331
SNP_P4_129906_166937	NW_004515930.1	Scaffold466	166937	AA	GG	1946950333
SNP_P4_129907_166993	NW_004515930.1	Scaffold466	166993	AA	GG	1946950335
SNP_P4_129908_167565	NW_004515930.1	Scaffold466	167565	GG	AA	1946950337
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SNP_P4_129912_167806	NW_004515930.1	Scaffold466	167806	AA	GG	1946950345
SNP_P4_129913_169627	NW_004515930.1	Scaffold466	169627	AA	CC	1946950347
SNP_P4_129914_169636	NW_004515930.1	Scaffold466	169636	GG	CC	1946950349
SNP_P4_129915_169640	NW_004515930.1	Scaffold466	169640	TT	AA	1946950351
SNP_P4_129916_169652	NW_004515930.1	Scaffold466	169652	TT	AA	1946950353
SNP_P4_129917_169654	NW_004515930.1	Scaffold466	169654	GG	AA	1946950355
SNP_P4_129918_169680	NW_004515930.1	Scaffold466	169680	AA	GG	1946950357
SNP_P4_129919_169690	NW_004515930.1	Scaffold466	169690	GG	AA	1946950359
SNP_P4_129921_169767	NW_004515930.1	Scaffold466	169767	TT	CC	1946950360
SNP_P4_129922_169801	NW_004515930.1	Scaffold466	169801	AA	GG	1946950362
SNP_P4_129923_169804	NW_004515930.1	Scaffold466	169804	AA	GG	1946950364
SNP_P4_129924_169819	NW_004515930.1	Scaffold466	169819	AA	TT	1946950366
SNP_P4_129925_169820	NW_004515930.1	Scaffold466	169820	TT	AA	1946950368
SNP_P4_129926_169821	NW_004515930.1	Scaffold466	169821	AA	CC	1946950370
SNP_P4_129927_169830	NW_004515930.1	Scaffold466	169830	AA	GG	1946950372
SNP_P4_129928_169831	NW_004515930.1	Scaffold466	169831	AA	GG	1946950374
SNP_P4_129929_169835	NW_004515930.1	Scaffold466	169835	TT	GG	1946950376
SNP_P4_129930_169836	NW_004515930.1	Scaffold466	169836	TT	CC	1946950378
SNP_P4_129931_169841	NW_004515930.1	Scaffold466	169841	AA	GG	1946950380
SNP_P4_129932_169856	NW_004515930.1	Scaffold466	169856	AA	CC	1946950382
SNP_P4_129933_169875	NW_004515930.1	Scaffold466	169875	AA	GG	1946950384
SNP_P4_129935_171062	NW_004515930.1	Scaffold466	171062	TT	GG	1946950386
SNP_P4_129936_171285	NW_004515930.1	Scaffold466	171285	AA	GG	1946950388
SNP_P4_129937_171289	NW_004515930.1	Scaffold466	171289	TT	CC	1946950390
SNP_P4_129938_171305	NW_004515930.1	Scaffold466	171305	AA	GG	1946950392

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_129940_171347	NW_004515930.1	Scaffold466	171347	GG	AA	1946950395
SNP_P4_129941_171350	NW_004515930.1	Scaffold466	171350	TT	AA	1946950397
SNP_P4_129942_171363	NW_004515930.1	Scaffold466	171363	GG	CC	1946950399
SNP_P4_129943_171497	NW_004515930.1	Scaffold466	171497	TT	GG	1946950401
SNP_P4_129944_171665	NW_004515930.1	Scaffold466	171665	CC	TT	1946950403
SNP_P4_129945_186142	NW_004515930.1	Scaffold466	186142	GG	CC	1946950405
SNP_P4_129946_190268	NW_004515930.1	Scaffold466	190268	TT	GG	1946950407
SNP_P4_129947_190278	NW_004515930.1	Scaffold466	190278	CC	TT	1946950409
SNP_P4_129948_201329	NW_004515930.1	Scaffold466	201329	TT	CC	1946950411
SNP_P4_129949_211926	NW_004515930.1	Scaffold466	211926	CC	GG	1946950413
SNP_P4_129950_211999	NW_004515930.1	Scaffold466	211999	AA	GG	1946950415
SNP_P4_129951_212000	NW_004515930.1	Scaffold466	212000	TT	CC	1946950417
SNP_P4_129952_212029	NW_004515930.1	Scaffold466	212029	GG	TT	1946950419
SNP_P4_129953_212210	NW_004515930.1	Scaffold466	212210	GG	AA	1946950421
SNP_P4_129954_212218	NW_004515930.1	Scaffold466	212218	GG	AA	1946950423
SNP_P4_129955_212228	NW_004515930.1	Scaffold466	212228	AA	GG	1946950425
SNP_P4_129956_220395	NW_004515930.1	Scaffold466	220395	CC	TT	1946950427
SNP_P4_129957_241237	NW_004515930.1	Scaffold466	241237	TT	CC	1946950429
SNP_P4_129958_241851	NW_004515930.1	Scaffold466	241851	GG	TT	1946950431
SNP_P4_129959_254285	NW_004515930.1	Scaffold466	254285	AA	TT	1946950433
SNP_P4_129961_254315	NW_004515930.1	Scaffold466	254315	AA	TT	1946950434
SNP_P4_129962_268697	NW_004515930.1	Scaffold466	268697	CC	TT	1946950436
SNP_P4_129963_268735	NW_004515930.1	Scaffold466	268735	CC	TT	1946950438
SNP_P4_129964_271024	NW_004515930.1	Scaffold466	271024	TT	AA	1946950440
SNP_P4_129965_272769	NW_004515930.1	Scaffold466	272769	CC	TT	1946950442
SNP_P4_129966_278840	NW_004515930.1	Scaffold466	278840	TT	GG	1946950444
SNP_P4_129968_292784	NW_004515930.1	Scaffold466	292784	TT	CC	1946950446
SNP_P4_129969_292880	NW_004515930.1	Scaffold466	292880	GG	AA	1946950448
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SNP_P4_129971_292969	NW_004515930.1	Scaffold466	292969	CC	AA	1946950452
SNP_P4_129972_292970	NW_004515930.1	Scaffold466	292970	CC	TT	1946950454
SNP_P4_129973_2538	NW_004515931.1	Scaffold467	2538	GG	AA	1946950456
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SNP_P4_129978_6422	NW_004515931.1	Scaffold467	6422	AA	GG	1946950466
SNP_P4_129979_18417	NW_004515932.1	Scaffold469	18417	CC	AA	1946950468
SNP_P4_129980_18597	NW_004515932.1	Scaffold469	18597	AA	TT	1946950470
SNP_P4_129981_19265	NW_004515932.1	Scaffold469	19265	AA	GG	1946950472
SNP_P4_129982_19296	NW_004515932.1	Scaffold469	19296	GG	AA	1946950474

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_129984_19328	NW_004515932.1	Scaffold469	19328	AA	CC	1946950478
SNP_P4_129985_19339	NW_004515932.1	Scaffold469	19339	AA	GG	1946950480
SNP_P4_129986_19341	NW_004515932.1	Scaffold469	19341	AA	CC	1946950482
SNP_P4_129987_19376	NW_004515932.1	Scaffold469	19376	AA	TT	1946950484
SNP_P4_129988_19391	NW_004515932.1	Scaffold469	19391	AA	CC	1946950486
SNP_P4_129989_19404	NW_004515932.1	Scaffold469	19404	TT	GG	1946950488
SNP_P4_129990_19798	NW_004515932.1	Scaffold469	19798	TT	CC	1946950490
SNP_P4_129991_19808	NW_004515932.1	Scaffold469	19808	GG	AA	1946950492
SNP_P4_129993_51994	NW_004515932.1	Scaffold469	51994	GG	TT	1946950494
SNP_P4_129994_58098	NW_004515932.1	Scaffold469	58098	CC	AA	1946950496
SNP_P4_129995_58154	NW_004515932.1	Scaffold469	58154	AA	GG	1946950498
SNP_P4_129996_58200	NW_004515932.1	Scaffold469	58200	TT	CC	1946950500
SNP_P4_129997_58252	NW_004515932.1	Scaffold469	58252	GG	TT	1946950502
SNP_P4_129999_77552	NW_004515932.1	Scaffold469	77552	AA	GG	1946950504
SNP_P4_130000_80724	NW_004515932.1	Scaffold469	80724	TT	GG	1946950506
SNP_P4_130001_135864	NW_004515932.1	Scaffold469	135864	TT	CC	1946950508
SNP_P4_130002_135866	NW_004515932.1	Scaffold469	135866	AA	GG	1946950510
SNP_P4_130003_136412	NW_004515932.1	Scaffold469	136412	GG	AA	1946950512
SNP_P4_130004_148264	NW_004515932.1	Scaffold469	148264	AA	GG	1946950514
SNP_P4_130005_148269	NW_004515932.1	Scaffold469	148269	TT	AA	1946950516
SNP_P4_130006_164629	NW_004515932.1	Scaffold469	164629	TT	CC	1946950518
SNP_P4_130007_168698	NW_004515932.1	Scaffold469	168698	TT	AA	1946950520
SNP_P4_130009_193258	NW_004515932.1	Scaffold469	193258	TT	CC	1946950522
SNP_P4_130010_208019	NW_004515932.1	Scaffold469	208019	CC	TT	1946950524
SNP_P4_130011_208043	NW_004515932.1	Scaffold469	208043	GG	CC	1946950526
SNP_P4_130012_208201	NW_004515932.1	Scaffold469	208201	AA	CC	1946950528
SNP_P4_130013_208278	NW_004515932.1	Scaffold469	208278	AA	TT	1946950530
SNP_P4_130014_208315	NW_004515932.1	Scaffold469	208315	AA	CC	1946950532
SNP_P4_130015_208379	NW_004515932.1	Scaffold469	208379	GG	TT	1946950534
SNP_P4_130016_208381	NW_004515932.1	Scaffold469	208381	AA	TT	1946950536
SNP_P4_130017_208392	NW_004515932.1	Scaffold469	208392	GG	AA	1946950538
SNP_P4_130018_208504	NW_004515932.1	Scaffold469	208504	TT	CC	1946950540
SNP_P4_130019_219462	NW_004515932.1	Scaffold469	219462	TT	CC	1946950542
SNP_P4_130020_219939	NW_004515932.1	Scaffold469	219939	GG	AA	1946950544
SNP_P4_130021_219942	NW_004515932.1	Scaffold469	219942	TT	GG	1946950546
SNP_P4_130022_220199	NW_004515932.1	Scaffold469	220199	TT	AA	1946950548
SNP_P4_130023_222747	NW_004515932.1	Scaffold469	222747	GG	TT	1946950550
SNP_P4_130024_328	NW_004515933.1	Scaffold470	328	CC	TT	1946950552
SNP_P4_130025_25444	NW_004515933.1	Scaffold470	25444	GG	TT	1946950554
SNP_P4_130026_25842	NW_004515933.1	Scaffold470	25842	AA	GG	1946950556
SNP_P4_130027_42718	NW_004515933.1	Scaffold470	42718	GG	AA	1946950558

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_130029_43097	NW_004515933.1	Scaffold470	43097	TT	CC	1946950561
SNP_P4_130030_43228	NW_004515933.1	Scaffold470	43228	AA	GG	1946950563
SNP_P4_130031_43278	NW_004515933.1	Scaffold470	43278	CC	GG	1946950565
SNP_P4_130032_83370	NW_004515933.1	Scaffold470	83370	CC	TT	1946950567
SNP_P4_130033_114012	NW_004515933.1	Scaffold470	114012	CC	TT	1946950569
SNP_P4_130034_117232	NW_004515933.1	Scaffold470	117232	AA	TT	1946950571
SNP_P4_130035_126335	NW_004515933.1	Scaffold470	126335	GG	TT	1946950573
SNP_P4_130036_128098	NW_004515933.1	Scaffold470	128098	AA	GG	1946950575
SNP_P4_130038_185956	NW_004515933.1	Scaffold470	185956	AA	TT	1946950577
SNP_P4_130039_186026	NW_004515933.1	Scaffold470	186026	GG	AA	1946950579
SNP_P4_130041_186141	NW_004515933.1	Scaffold470	186141	TT	AA	1946950581
SNP_P4_130042_224172	NW_004515933.1	Scaffold470	224172	AA	GG	1946950583
SNP_P4_130044_253644	NW_004515933.1	Scaffold470	253644	TT	CC	1946950585
SNP_P4_130045_253645	NW_004515933.1	Scaffold470	253645	GG	TT	1946950587
SNP_P4_130046_287604	NW_004515933.1	Scaffold470	287604	AA	GG	1946950589
SNP_P4_130047_287644	NW_004515933.1	Scaffold470	287644	AA	CC	1946950590
SNP_P4_130048_287863	NW_004515933.1	Scaffold470	287863	GG	TT	1946950592
SNP_P4_130049_321728	NW_004515933.1	Scaffold470	321728	AA	GG	1946950594
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SNP_P4_130051_322090	NW_004515933.1	Scaffold470	322090	GG	AA	1946950598
SNP_P4_130052_322114	NW_004515933.1	Scaffold470	322114	CC	AA	1946950600
SNP_P4_130053_322115	NW_004515933.1	Scaffold470	322115	AA	GG	1946950602
SNP_P4_130054_322116	NW_004515933.1	Scaffold470	322116	TT	AA	1946950604
SNP_P4_130055_336035	NW_004515933.1	Scaffold470	336035	CC	TT	1946950606
SNP_P4_130056_336075	NW_004515933.1	Scaffold470	336075	TT	CC	1946950608
SNP_P4_130057_336090	NW_004515933.1	Scaffold470	336090	GG	AA	1946950609
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SNP_P4_130060_336127	NW_004515933.1	Scaffold470	336127	CC	TT	1946950615
SNP_P4_130061_336172	NW_004515933.1	Scaffold470	336172	CC	TT	1946950617
SNP_P4_130062_336193	NW_004515933.1	Scaffold470	336193	AA	TT	1946950619
SNP_P4_130063_336208	NW_004515933.1	Scaffold470	336208	AA	GG	1946950620
SNP_P4_130064_336246	NW_004515933.1	Scaffold470	336246	AA	TT	1946950622
SNP_P4_130065_336252	NW_004515933.1	Scaffold470	336252	AA	TT	1946950624
SNP_P4_130067_336375	NW_004515933.1	Scaffold470	336375	GG	TT	1946950626
SNP_P4_130068_336393	NW_004515933.1	Scaffold470	336393	AA	TT	1946950628
SNP_P4_130069_336417	NW_004515933.1	Scaffold470	336417	TT	AA	1946950630
SNP_P4_130070_336450	NW_004515933.1	Scaffold470	336450	TT	CC	1946950632
SNP_P4_130071_336559	NW_004515933.1	Scaffold470	336559	GG	AA	1946950634
SNP_P4_130072_336560	NW_004515933.1	Scaffold470	336560	AA	TT	1946950636
SNP_P4_130073_336672	NW_004515933.1	Scaffold470	336672	GG	AA	1946950638

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_130075_336928	NW_004515933.1	Scaffold470	336928	TT	AA	1946950642
SNP_P4_130076_336957	NW_004515933.1	Scaffold470	336957	TT	CC	1946950644
SNP_P4_130077_336958	NW_004515933.1	Scaffold470	336958	GG	AA	1946950646
SNP_P4_130078_337671	NW_004515933.1	Scaffold470	337671	GG	AA	1946950648
SNP_P4_130079_337674	NW_004515933.1	Scaffold470	337674	GG	AA	1946950650
SNP_P4_130080_343061	NW_004515933.1	Scaffold470	343061	GG	AA	1946950652
SNP_P4_130081_343092	NW_004515933.1	Scaffold470	343092	TT	CC	1946950654
SNP_P4_130082_347232	NW_004515933.1	Scaffold470	347232	CC	GG	1946950656
SNP_P4_130083_348038	NW_004515933.1	Scaffold470	348038	CC	TT	1946950658
SNP_P4_130084_348139	NW_004515933.1	Scaffold470	348139	GG	AA	1946950660
SNP_P4_130085_348184	NW_004515933.1	Scaffold470	348184	TT	CC	1946950662
SNP_P4_130086_348242	NW_004515933.1	Scaffold470	348242	CC	AA	1946950664
SNP_P4_130087_348369	NW_004515933.1	Scaffold470	348369	TT	CC	1946950665
SNP_P4_130088_348445	NW_004515933.1	Scaffold470	348445	AA	GG	1946950667
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SNP_P4_130090_348475	NW_004515933.1	Scaffold470	348475	AA	CC	1946950671
SNP_P4_130091_349186	NW_004515933.1	Scaffold470	349186	TT	GG	1946950673
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SNP_P4_130107_370833	NW_004515933.1	Scaffold470	370833	AA	GG	1946950701
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SNP_P4_130111_372407	NW_004515933.1	Scaffold470	372407	CC	TT	1946950709
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SNP_P4_130114_372805	NW_004515933.1	Scaffold470	372805	CC	TT	1946950713
SNP_P4_130115_373041	NW_004515933.1	Scaffold470	373041	TT	CC	1946950715
SNP_P4_130116_373101	NW_004515933.1	Scaffold470	373101	TT	GG	1946950717
SNP_P4_130117_373103	NW_004515933.1	Scaffold470	373103	TT	AA	1946950719
SNP_P4_130118_373290	NW_004515933.1	Scaffold470	373290	CC	GG	1946950721

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_130121_374414	NW_004515933.1	Scaffold470	374414	CC	TT	1946950726
SNP_P4_130122_375854	NW_004515933.1	Scaffold470	375854	TT	CC	1946950728
SNP_P4_130124_377042	NW_004515933.1	Scaffold470	377042	CC	TT	1946950730
SNP_P4_130125_377105	NW_004515933.1	Scaffold470	377105	GG	AA	1946950732
SNP_P4_130126_377536	NW_004515933.1	Scaffold470	377536	GG	AA	1946950734
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SNP_P4_130128_377812	NW_004515933.1	Scaffold470	377812	CC	TT	1946950738
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SNP_P4_130130_380298	NW_004515933.1	Scaffold470	380298	TT	CC	1946950742
SNP_P4_130131_382476	NW_004515933.1	Scaffold470	382476	AA	TT	1946950744
SNP_P4_130132_383895	NW_004515933.1	Scaffold470	383895	GG	CC	1946950746
SNP_P4_130133_385999	NW_004515933.1	Scaffold470	385999	CC	TT	1946950748
SNP_P4_130134_386302	NW_004515933.1	Scaffold470	386302	TT	CC	1946950750
SNP_P4_130135_387140	NW_004515933.1	Scaffold470	387140	GG	AA	1946950752
SNP_P4_130136_389623	NW_004515933.1	Scaffold470	389623	TT	CC	1946950754
SNP_P4_130137_389700	NW_004515933.1	Scaffold470	389700	TT	CC	1946950756
SNP_P4_130138_389750	NW_004515933.1	Scaffold470	389750	TT	GG	1946950758
SNP_P4_130139_389794	NW_004515933.1	Scaffold470	389794	TT	CC	1946950760
SNP_P4_130140_390002	NW_004515933.1	Scaffold470	390002	CC	TT	1946950762
SNP_P4_130141_390007	NW_004515933.1	Scaffold470	390007	TT	CC	1946950763
SNP_P4_130142_390093	NW_004515933.1	Scaffold470	390093	GG	CC	1946950765
SNP_P4_130143_1382	NW_004515934.1	Scaffold471	1382	GG	AA	1946950767
SNP_P4_130144_1387	NW_004515934.1	Scaffold471	1387	CC	AA	1946950769
SNP_P4_130145_3653	NW_004515935.1	Scaffold473	3653	GG	AA	1946950771
SNP_P4_130146_4677	NW_004515935.1	Scaffold473	4677	GG	AA	1946950773
SNP_P4_130147_5883	NW_004515935.1	Scaffold473	5883	CC	GG	1946950775
SNP_P4_130148_6180	NW_004515935.1	Scaffold473	6180	AA	GG	1946950777
SNP_P4_130149_6306	NW_004515935.1	Scaffold473	6306	AA	GG	1946950779
SNP_P4_130150_6328	NW_004515935.1	Scaffold473	6328	CC	AA	1946950781
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SNP_P4_130152_12705	NW_004515935.1	Scaffold473	12705	AA	TT	1946950785
SNP_P4_130153_12826	NW_004515935.1	Scaffold473	12826	GG	AA	1946950787
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SNP_P4_130156_12918	NW_004515935.1	Scaffold473	12918	GG	TT	1946950793
SNP_P4_130157_12997	NW_004515935.1	Scaffold473	12997	GG	CC	1946950795
SNP_P4_130158_13092	NW_004515935.1	Scaffold473	13092	AA	GG	1946950797
SNP_P4_130159_13098	NW_004515935.1	Scaffold473	13098	AA	TT	1946950799
SNP_P4_130160_13099	NW_004515935.1	Scaffold473	13099	CC	GG	1946950801
SNP_P4_130161_13215	NW_004515935.1	Scaffold473	13215	TT	AA	1946950803

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_130162_13253	NW_004515935.1	Scaffold473	13253	AA	CC	1946950805
SNP_P4_130163_13323	NW_004515935.1	Scaffold473	13323	AA	GG	1946950806
SNP_P4_130164_13331	NW_004515935.1	Scaffold473	13331	AA	GG	1946950808
SNP_P4_130165_30356	NW_004515935.1	Scaffold473	30356	GG	TT	1946950810
SNP_P4_130166_19719	NW_004515936.1	Scaffold475	19719	GG	AA	1946950812
SNP_P4_130167_20221	NW_004515936.1	Scaffold475	20221	TT	CC	1946950814
SNP_P4_130168_20255	NW_004515936.1	Scaffold475	20255	AA	GG	1946950816
SNP_P4_130169_35130	NW_004515936.1	Scaffold475	35130	TT	AA	1946950818
SNP_P4_130170_36385	NW_004515936.1	Scaffold475	36385	TT	CC	1946950820
SNP_P4_130171_36390	NW_004515936.1	Scaffold475	36390	AA	TT	1946950822
SNP_P4_130172_36446	NW_004515936.1	Scaffold475	36446	AA	TT	1946950824
SNP_P4_130173_36713	NW_004515936.1	Scaffold475	36713	AA	CC	1946950826
SNP_P4_130174_36714	NW_004515936.1	Scaffold475	36714	TT	CC	1946950828
SNP_P4_130175_36715	NW_004515936.1	Scaffold475	36715	GG	AA	1946950830
SNP_P4_130176_39572	NW_004515936.1	Scaffold475	39572	GG	AA	1946950832
SNP_P4_130177_56675	NW_004515936.1	Scaffold475	56675	GG	CC	1946950834
SNP_P4_130178_56695	NW_004515936.1	Scaffold475	56695	AA	CC	1946950836
SNP_P4_130179_60302	NW_004515936.1	Scaffold475	60302	GG	AA	1946950838
SNP_P4_130180_80920	NW_004515936.1	Scaffold475	80920	TT	CC	1946950840
SNP_P4_130181_84150	NW_004515936.1	Scaffold475	84150	TT	GG	1946950842
SNP_P4_130182_84366	NW_004515936.1	Scaffold475	84366	TT	AA	1946950844
SNP_P4_130183_88872	NW_004515936.1	Scaffold475	88872	AA	GG	1946950846
SNP_P4_130184_89244	NW_004515936.1	Scaffold475	89244	GG	AA	1946950847
SNP_P4_130185_89266	NW_004515936.1	Scaffold475	89266	TT	CC	1946950849
SNP_P4_130186_89286	NW_004515936.1	Scaffold475	89286	TT	CC	1946950851
SNP_P4_130187_89304	NW_004515936.1	Scaffold475	89304	GG	AA	1946950853
SNP_P4_130188_93052	NW_004515936.1	Scaffold475	93052	AA	CC	1946950855
SNP_P4_130189_93464	NW_004515936.1	Scaffold475	93464	CC	GG	1946950857
SNP_P4_130190_93466	NW_004515936.1	Scaffold475	93466	AA	GG	1946950859
SNP_P4_130191_121504	NW_004515936.1	Scaffold475	121504	TT	CC	1946950861
SNP_P4_130192_121561	NW_004515936.1	Scaffold475	121561	AA	GG	1946950863
SNP_P4_130193_130700	NW_004515936.1	Scaffold475	130700	TT	GG	1946950865
SNP_P4_130194_141031	NW_004515936.1	Scaffold475	141031	TT	CC	1946950867
SNP_P4_130195_141120	NW_004515936.1	Scaffold475	141120	AA	GG	1946950869
SNP_P4_130197_141418	NW_004515936.1	Scaffold475	141418	TT	CC	1946950871
SNP_P4_130198_141419	NW_004515936.1	Scaffold475	141419	AA	TT	1946950873
SNP_P4_130199_141448	NW_004515936.1	Scaffold475	141448	TT	CC	1946950875
SNP_P4_130200_141487	NW_004515936.1	Scaffold475	141487	CC	TT	1946950877
SNP_P4_130201_141497	NW_004515936.1	Scaffold475	141497	GG	AA	1946950879
SNP_P4_130202_141506	NW_004515936.1	Scaffold475	141506	TT	CC	1946950881
SNP_P4_130203_144184	NW_004515936.1	Scaffold475	144184	AA	GG	1946950883
SNP_P4_130204_144346	NW_004515936.1	Scaffold475	144346	TT	CC	1946950885

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_130206_144483	NW_004515936.1	Scaffold475	144483	GG	CC	1946950889
SNP_P4_130207_144507	NW_004515936.1	Scaffold475	144507	TT	CC	1946950891
SNP_P4_130208_144509	NW_004515936.1	Scaffold475	144509	AA	CC	1946950893
SNP_P4_130209_144902	NW_004515936.1	Scaffold475	144902	TT	CC	1946950895
SNP_P4_130210_144920	NW_004515936.1	Scaffold475	144920	AA	CC	1946950897
SNP_P4_130211_144942	NW_004515936.1	Scaffold475	144942	TT	AA	1946950899
SNP_P4_130212_144995	NW_004515936.1	Scaffold475	144995	CC	TT	1946950901
SNP_P4_130213_145006	NW_004515936.1	Scaffold475	145006	TT	AA	1946950903
SNP_P4_130214_145013	NW_004515936.1	Scaffold475	145013	AA	GG	1946950905
SNP_P4_130215_145025	NW_004515936.1	Scaffold475	145025	TT	GG	1946950907
SNP_P4_130216_145070	NW_004515936.1	Scaffold475	145070	AA	GG	1946950909
SNP_P4_130217_145178	NW_004515936.1	Scaffold475	145178	AA	GG	1946950911
SNP_P4_130218_145201	NW_004515936.1	Scaffold475	145201	AA	GG	1946950913
SNP_P4_130219_145386	NW_004515936.1	Scaffold475	145386	TT	CC	1946950915
SNP_P4_130220_145389	NW_004515936.1	Scaffold475	145389	GG	CC	1946950916
SNP_P4_130221_145454	NW_004515936.1	Scaffold475	145454	AA	GG	1946950918
SNP_P4_130222_148753	NW_004515936.1	Scaffold475	148753	TT	CC	1946950920
SNP_P4_130223_148775	NW_004515936.1	Scaffold475	148775	AA	GG	1946950922
SNP_P4_130224_148796	NW_004515936.1	Scaffold475	148796	AA	GG	1946950924
SNP_P4_130225_148798	NW_004515936.1	Scaffold475	148798	AA	GG	1946950926
SNP_P4_130226_161031	NW_004515936.1	Scaffold475	161031	GG	AA	1946950928
SNP_P4_130227_162576	NW_004515936.1	Scaffold475	162576	GG	AA	1946950930
SNP_P4_130228_163046	NW_004515936.1	Scaffold475	163046	AA	CC	1946950932
SNP_P4_130229_163120	NW_004515936.1	Scaffold475	163120	AA	GG	1946950934
SNP_P4_130230_163134	NW_004515936.1	Scaffold475	163134	TT	GG	1946950936
SNP_P4_130231_163218	NW_004515936.1	Scaffold475	163218	TT	CC	1946950938
SNP_P4_130232_163225	NW_004515936.1	Scaffold475	163225	AA	GG	1946950940
SNP_P4_130233_163253	NW_004515936.1	Scaffold475	163253	TT	GG	1946950942
SNP_P4_130234_163296	NW_004515936.1	Scaffold475	163296	AA	CC	1946950944
SNP_P4_130235_163316	NW_004515936.1	Scaffold475	163316	GG	CC	1946950946
SNP_P4_130236_163332	NW_004515936.1	Scaffold475	163332	TT	CC	1946950948
SNP_P4_130237_163367	NW_004515936.1	Scaffold475	163367	GG	CC	1946950950
SNP_P4_130238_163389	NW_004515936.1	Scaffold475	163389	TT	CC	1946950952
SNP_P4_130239_163424	NW_004515936.1	Scaffold475	163424	AA	GG	1946950954
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SNP_P4_130241_163458	NW_004515936.1	Scaffold475	163458	TT	CC	1946950958
SNP_P4_130242_163467	NW_004515936.1	Scaffold475	163467	TT	GG	1946950960
SNP_P4_130244_163514	NW_004515936.1	Scaffold475	163514	AA	GG	1946950962
SNP_P4_130245_163559	NW_004515936.1	Scaffold475	163559	TT	CC	1946950963
SNP_P4_130246_163616	NW_004515936.1	Scaffold475	163616	TT	CC	1946950965
SNP_P4_130247_163688	NW_004515936.1	Scaffold475	163688	AA	GG	1946950967

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_130249_163786	NW_004515936.1	Scaffold475	163786	TT	CC	1946950971
SNP_P4_130250_163787	NW_004515936.1	Scaffold475	163787	AA	GG	1946950973
SNP_P4_130251_163824	NW_004515936.1	Scaffold475	163824	CC	TT	1946950975
SNP_P4_130252_163825	NW_004515936.1	Scaffold475	163825	AA	GG	1946950977
SNP_P4_130253_163850	NW_004515936.1	Scaffold475	163850	TT	GG	1946950979
SNP_P4_130254_163886	NW_004515936.1	Scaffold475	163886	AA	CC	1946950981
SNP_P4_130255_164152	NW_004515936.1	Scaffold475	164152	TT	CC	1946950983
SNP_P4_130256_164259	NW_004515936.1	Scaffold475	164259	TT	CC	1946950985
SNP_P4_130257_164291	NW_004515936.1	Scaffold475	164291	AA	GG	1946950987
SNP_P4_130258_167552	NW_004515936.1	Scaffold475	167552	TT	CC	1946950989
SNP_P4_130259_167620	NW_004515936.1	Scaffold475	167620	AA	GG	1946950991
SNP_P4_130260_167625	NW_004515936.1	Scaffold475	167625	CC	GG	1946950993
SNP_P4_130262_174726	NW_004515936.1	Scaffold475	174726	AA	TT	1946950995
SNP_P4_130263_174744	NW_004515936.1	Scaffold475	174744	AA	TT	1946950997
SNP_P4_130264_174775	NW_004515936.1	Scaffold475	174775	AA	TT	1946950999
SNP_P4_130265_175023	NW_004515936.1	Scaffold475	175023	AA	GG	1946951001
SNP_P4_130266_175193	NW_004515936.1	Scaffold475	175193	AA	CC	1946951003
SNP_P4_130267_175341	NW_004515936.1	Scaffold475	175341	AA	CC	1946951005
SNP_P4_130268_175353	NW_004515936.1	Scaffold475	175353	TT	GG	1946951007
SNP_P4_130269_176749	NW_004515936.1	Scaffold475	176749	TT	GG	1946951009
SNP_P4_130270_177072	NW_004515936.1	Scaffold475	177072	AA	GG	1946951011
SNP_P4_130271_177073	NW_004515936.1	Scaffold475	177073	AA	TT	1946951013
SNP_P4_130272_177112	NW_004515936.1	Scaffold475	177112	TT	CC	1946951015
SNP_P4_130273_177151	NW_004515936.1	Scaffold475	177151	TT	CC	1946951017
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SNP_P4_130275_177523	NW_004515936.1	Scaffold475	177523	GG	TT	1946951021
SNP_P4_130276_181510	NW_004515936.1	Scaffold475	181510	TT	CC	1946951023
SNP_P4_130277_183796	NW_004515936.1	Scaffold475	183796	GG	CC	1946951025
SNP_P4_130278_184580	NW_004515936.1	Scaffold475	184580	TT	CC	1946951027
SNP_P4_130279_189681	NW_004515936.1	Scaffold475	189681	GG	TT	1946951029
SNP_P4_130280_189685	NW_004515936.1	Scaffold475	189685	AA	CC	1946951031
SNP_P4_130281_189701	NW_004515936.1	Scaffold475	189701	AA	GG	1946951033
SNP_P4_130282_189731	NW_004515936.1	Scaffold475	189731	TT	AA	1946951035
SNP_P4_130283_189778	NW_004515936.1	Scaffold475	189778	TT	AA	1946951037
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SNP_P4_130285_189828	NW_004515936.1	Scaffold475	189828	CC	AA	1946951041
SNP_P4_130286_189860	NW_004515936.1	Scaffold475	189860	AA	TT	1946951043
SNP_P4_130287_190083	NW_004515936.1	Scaffold475	190083	AA	GG	1946951045
SNP_P4_130288_190153	NW_004515936.1	Scaffold475	190153	CC	TT	1946951047
SNP_P4_130289_190491	NW_004515936.1	Scaffold475	190491	AA	GG	1946951049
SNP_P4_130290_120	NW_004515937.1	Scaffold476	120	CC	TT	1946951050

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_130292_224	NW_004515937.1	Scaffold476	224	TT	CC	1946951054
SNP_P4_130293_295	NW_004515937.1	Scaffold476	295	CC	TT	1946951056
SNP_P4_130294_308	NW_004515937.1	Scaffold476	308	TT	CC	1946951058
SNP_P4_130295_376	NW_004515937.1	Scaffold476	376	AA	TT	1946951060
SNP_P4_130296_388	NW_004515937.1	Scaffold476	388	TT	CC	1946951062
SNP_P4_130297_420	NW_004515937.1	Scaffold476	420	CC	TT	1946951064
SNP_P4_130298_604	NW_004515937.1	Scaffold476	604	AA	TT	1946951066
SNP_P4_130299_645	NW_004515937.1	Scaffold476	645	GG	AA	1946951068
SNP_P4_130300_724	NW_004515937.1	Scaffold476	724	AA	CC	1946951070
SNP_P4_130301_742	NW_004515937.1	Scaffold476	742	GG	AA	1946951072
SNP_P4_130302_763	NW_004515937.1	Scaffold476	763	AA	GG	1946951074
SNP_P4_130303_814	NW_004515937.1	Scaffold476	814	TT	CC	1946951076
SNP_P4_130304_1007	NW_004515937.1	Scaffold476	1007	GG	TT	1946951078
SNP_P4_130305_1069	NW_004515937.1	Scaffold476	1069	GG	TT	1946951080
SNP_P4_130306_1083	NW_004515937.1	Scaffold476	1083	GG	AA	1946951082
SNP_P4_130307_1183	NW_004515937.1	Scaffold476	1183	AA	CC	1946951084
SNP_P4_130308_1223	NW_004515937.1	Scaffold476	1223	TT	GG	1946951086
SNP_P4_130309_1350	NW_004515937.1	Scaffold476	1350	TT	GG	1946951088
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SNP_P4_130314_4252	NW_004515937.1	Scaffold476	4252	GG	CC	1946951097
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SNP_P4_130320_10250	NW_004515937.1	Scaffold476	10250	TT	GG	1946951108
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SNP_P4_130323_10775	NW_004515937.1	Scaffold476	10775	CC	GG	1946951114
SNP_P4_130324_10856	NW_004515937.1	Scaffold476	10856	AA	GG	1946951116
SNP_P4_130325_10929	NW_004515937.1	Scaffold476	10929	TT	CC	1946951117
SNP_P4_130326_10930	NW_004515937.1	Scaffold476	10930	TT	CC	1946951119
SNP_P4_130327_10961	NW_004515937.1	Scaffold476	10961	AA	GG	1946951121
SNP_P4_130328_11018	NW_004515937.1	Scaffold476	11018	AA	GG	1946951123
SNP_P4_130329_11423	NW_004515937.1	Scaffold476	11423	GG	AA	1946951125
SNP_P4_130330_11426	NW_004515937.1	Scaffold476	11426	GG	AA	1946951127
SNP_P4_130331_11440	NW_004515937.1	Scaffold476	11440	AA	GG	1946951129
SNP_P4_130332_11472	NW_004515937.1	Scaffold476	11472	CC	GG	1946951131

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_130335_11560	NW_004515937.1	Scaffold476	11560	CC	GG	1946951137
SNP_P4_130336_372	NW_004515938.1	Scaffold477	372	AA	GG	1946951139
SNP_P4_130337_410	NW_004515938.1	Scaffold477	410	GG	AA	1946951141
SNP_P4_130338_582	NW_004515938.1	Scaffold477	582	TT	AA	1946951143
SNP_P4_130339_583	NW_004515938.1	Scaffold477	583	CC	AA	1946951145
SNP_P4_130340_867	NW_004515938.1	Scaffold477	867	GG	AA	1946951147
SNP_P4_130341_4124	NW_004515938.1	Scaffold477	4124	GG	CC	1946951149
SNP_P4_130342_4449	NW_004515938.1	Scaffold477	4449	TT	CC	1946951151
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SNP_P4_130344_5406	NW_004515938.1	Scaffold477	5406	CC	GG	1946951155
SNP_P4_130345_6452	NW_004515938.1	Scaffold477	6452	CC	TT	1946951157
SNP_P4_130346_6510	NW_004515938.1	Scaffold477	6510	CC	TT	1946951159
SNP_P4_130347_6705	NW_004515938.1	Scaffold477	6705	AA	GG	1946951161
SNP_P4_130348_7622	NW_004515938.1	Scaffold477	7622	TT	CC	1946951163
SNP_P4_130349_8790	NW_004515938.1	Scaffold477	8790	TT	CC	1946951165
SNP_P4_130350_9157	NW_004515938.1	Scaffold477	9157	AA	GG	1946951167
SNP_P4_130351_9381	NW_004515938.1	Scaffold477	9381	CC	GG	1946951169
SNP_P4_130352_9416	NW_004515938.1	Scaffold477	9416	CC	GG	1946951171
SNP_P4_130353_9466	NW_004515938.1	Scaffold477	9466	CC	AA	1946951173
SNP_P4_130354_9779	NW_004515938.1	Scaffold477	9779	CC	GG	1946951175
SNP_P4_130355_9929	NW_004515938.1	Scaffold477	9929	GG	AA	1946951177
SNP_P4_130356_10133	NW_004515938.1	Scaffold477	10133	GG	TT	1946951179
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SNP_P4_130358_10229	NW_004515938.1	Scaffold477	10229	AA	TT	1946951183
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SNP_P4_130361_10402	NW_004515938.1	Scaffold477	10402	AA	GG	1946951189
SNP_P4_130362_10601	NW_004515938.1	Scaffold477	10601	TT	AA	1946951191
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SNP_P4_130370_11634	NW_004515938.1	Scaffold477	11634	AA	GG	1946951205
SNP_P4_130371_11713	NW_004515938.1	Scaffold477	11713	GG	AA	1946951207
SNP_P4_130372_11738	NW_004515938.1	Scaffold477	11738	AA	TT	1946951209
SNP_P4_130373_11795	NW_004515938.1	Scaffold477	11795	AA	GG	1946951211
SNP_P4_130374_11830	NW_004515938.1	Scaffold477	11830	AA	GG	1946951213
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_130377_11901	NW_004515938.1	Scaffold477	11901	TT	GG	1946951219
SNP_P4_130378_11910	NW_004515938.1	Scaffold477	11910	CC	TT	1946951221
SNP_P4_130379_11954	NW_004515938.1	Scaffold477	11954	TT	AA	1946951223
SNP_P4_130380_11983	NW_004515938.1	Scaffold477	11983	GG	AA	1946951225
SNP_P4_130381_11985	NW_004515938.1	Scaffold477	11985	TT	CC	1946951226
SNP_P4_130382_12038	NW_004515938.1	Scaffold477	12038	TT	CC	1946951228
SNP_P4_130383_12074	NW_004515938.1	Scaffold477	12074	CC	GG	1946951230
SNP_P4_130384_12208	NW_004515938.1	Scaffold477	12208	AA	CC	1946951232
SNP_P4_130385_12225	NW_004515938.1	Scaffold477	12225	TT	CC	1946951234
SNP_P4_130386_12276	NW_004515938.1	Scaffold477	12276	GG	CC	1946951236
SNP_P4_130387_12390	NW_004515938.1	Scaffold477	12390	GG	AA	1946951238
SNP_P4_130388_12648	NW_004515938.1	Scaffold477	12648	CC	AA	1946951240
SNP_P4_130389_12664	NW_004515938.1	Scaffold477	12664	CC	TT	1946951242
SNP_P4_130390_12822	NW_004515938.1	Scaffold477	12822	CC	AA	1946951244
SNP_P4_130391_13004	NW_004515938.1	Scaffold477	13004	GG	TT	1946951246
SNP_P4_130392_13398	NW_004515938.1	Scaffold477	13398	AA	GG	1946951248
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SNP_P4_130395_13569	NW_004515938.1	Scaffold477	13569	GG	AA	1946951254
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SNP_P4_130397_14445	NW_004515938.1	Scaffold477	14445	TT	CC	1946951258
SNP_P4_130398_14492	NW_004515938.1	Scaffold477	14492	TT	GG	1946951260
SNP_P4_130399_14617	NW_004515938.1	Scaffold477	14617	TT	AA	1946951262
SNP_P4_130400_15351	NW_004515938.1	Scaffold477	15351	CC	TT	1946951264
SNP_P4_130401_15469	NW_004515938.1	Scaffold477	15469	CC	AA	1946951266
SNP_P4_130402_15667	NW_004515938.1	Scaffold477	15667	CC	AA	1946951268
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SNP_P4_130409_17366	NW_004515938.1	Scaffold477	17366	CC	AA	1946951282
SNP_P4_130410_17370	NW_004515938.1	Scaffold477	17370	AA	TT	1946951284
SNP_P4_130411_17713	NW_004515938.1	Scaffold477	17713	TT	AA	1946951286
SNP_P4_130412_17719	NW_004515938.1	Scaffold477	17719	GG	AA	1946951288
SNP_P4_130413_17800	NW_004515938.1	Scaffold477	17800	CC	TT	1946951290
SNP_P4_130414_17926	NW_004515938.1	Scaffold477	17926	GG	AA	1946951292
SNP_P4_130415_19490	NW_004515938.1	Scaffold477	19490	GG	AA	1946951294
SNP_P4_130417_20125	NW_004515938.1	Scaffold477	20125	TT	CC	1946951296
SNP_P4_130418_20371	NW_004515938.1	Scaffold477	20371	TT	GG	1946951298

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_130422_20997	NW_004515938.1	Scaffold477	20997	TT	CC	1946951304
SNP_P4_130423_21170	NW_004515938.1	Scaffold477	21170	CC	TT	1946951306
SNP_P4_130424_21409	NW_004515938.1	Scaffold477	21409	TT	CC	1946951308
SNP_P4_130425_21533	NW_004515938.1	Scaffold477	21533	AA	CC	1946951310
SNP_P4_130426_22472	NW_004515938.1	Scaffold477	22472	TT	GG	1946951312
SNP_P4_130427_22617	NW_004515938.1	Scaffold477	22617	AA	GG	1946951314
SNP_P4_130428_22639	NW_004515938.1	Scaffold477	22639	GG	TT	1946951316
SNP_P4_130429_22677	NW_004515938.1	Scaffold477	22677	TT	CC	1946951318
SNP_P4_130430_22692	NW_004515938.1	Scaffold477	22692	TT	GG	1946951320
SNP_P4_130431_22907	NW_004515938.1	Scaffold477	22907	GG	AA	1946951322
SNP_P4_130432_23335	NW_004515938.1	Scaffold477	23335	AA	CC	1946951324
SNP_P4_130433_23614	NW_004515938.1	Scaffold477	23614	TT	CC	1946951326
SNP_P4_130435_28447	NW_004515938.1	Scaffold477	28447	CC	TT	1946951328
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SNP_P4_130437_29182	NW_004515938.1	Scaffold477	29182	AA	TT	1946951332
SNP_P4_130438_29183	NW_004515938.1	Scaffold477	29183	CC	TT	1946951334
SNP_P4_130439_29399	NW_004515938.1	Scaffold477	29399	AA	TT	1946951336
SNP_P4_130440_30368	NW_004515938.1	Scaffold477	30368	AA	GG	1946951338
SNP_P4_130441_30824	NW_004515938.1	Scaffold477	30824	CC	GG	1946951340
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SNP_P4_130443_32151	NW_004515938.1	Scaffold477	32151	TT	GG	1946951344
SNP_P4_130444_32359	NW_004515938.1	Scaffold477	32359	TT	CC	1946951346
SNP_P4_130445_32466	NW_004515938.1	Scaffold477	32466	GG	AA	1946951348
SNP_P4_130446_33553	NW_004515938.1	Scaffold477	33553	AA	TT	1946951350
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SNP_P4_130451_34558	NW_004515938.1	Scaffold477	34558	AA	GG	1946951360
SNP_P4_130452_35104	NW_004515938.1	Scaffold477	35104	AA	CC	1946951362
SNP_P4_130453_35106	NW_004515938.1	Scaffold477	35106	AA	TT	1946951364
SNP_P4_130454_35822	NW_004515938.1	Scaffold477	35822	CC	TT	1946951366
SNP_P4_130455_35843	NW_004515938.1	Scaffold477	35843	AA	TT	1946951368
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SNP_P4_130457_37244	NW_004515938.1	Scaffold477	37244	TT	CC	1946951372
SNP_P4_130458_37291	NW_004515938.1	Scaffold477	37291	TT	GG	1946951374
SNP_P4_130459_43429	NW_004515938.1	Scaffold477	43429	CC	AA	1946951376
SNP_P4_130460_43907	NW_004515938.1	Scaffold477	43907	CC	TT	1946951378
SNP_P4_130461_43934	NW_004515938.1	Scaffold477	43934	TT	CC	1946951380
SNP_P4_130462_44019	NW_004515938.1	Scaffold477	44019	TT	CC	1946951382

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_130464_44658	NW_004515938.1	Scaffold477	44658	AA	CC	1946951386
SNP_P4_130466_45182	NW_004515938.1	Scaffold477	45182	GG	AA	1946951388
SNP_P4_130467_45183	NW_004515938.1	Scaffold477	45183	AA	GG	1946951390
SNP_P4_130468_45997	NW_004515938.1	Scaffold477	45997	AA	TT	1946951392
SNP_P4_130469_46082	NW_004515938.1	Scaffold477	46082	CC	AA	1946951394
SNP_P4_130470_46088	NW_004515938.1	Scaffold477	46088	TT	GG	1946951396
SNP_P4_130471_46488	NW_004515938.1	Scaffold477	46488	CC	TT	1946951398
SNP_P4_130473_46907	NW_004515938.1	Scaffold477	46907	GG	AA	1946951400
SNP_P4_130474_47168	NW_004515938.1	Scaffold477	47168	AA	CC	1946951402
SNP_P4_130475_47207	NW_004515938.1	Scaffold477	47207	TT	CC	1946951404
SNP_P4_130476_47251	NW_004515938.1	Scaffold477	47251	AA	CC	1946951406
SNP_P4_130477_47381	NW_004515938.1	Scaffold477	47381	GG	AA	1946951408
SNP_P4_130478_47423	NW_004515938.1	Scaffold477	47423	TT	AA	1946951410
SNP_P4_130479_47488	NW_004515938.1	Scaffold477	47488	AA	TT	1946951411
SNP_P4_130480_47566	NW_004515938.1	Scaffold477	47566	TT	AA	1946951413
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SNP_P4_130482_47626	NW_004515938.1	Scaffold477	47626	CC	TT	1946951417
SNP_P4_130483_47817	NW_004515938.1	Scaffold477	47817	GG	AA	1946951419
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SNP_P4_130486_47891	NW_004515938.1	Scaffold477	47891	AA	GG	1946951425
SNP_P4_130487_48893	NW_004515938.1	Scaffold477	48893	TT	CC	1946951427
SNP_P4_130489_49665	NW_004515938.1	Scaffold477	49665	TT	CC	1946951429
SNP_P4_130490_52358	NW_004515938.1	Scaffold477	52358	AA	GG	1946951431
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SNP_P4_130495_53517	NW_004515938.1	Scaffold477	53517	CC	TT	1946951441
SNP_P4_130496_53526	NW_004515938.1	Scaffold477	53526	GG	AA	1946951443
SNP_P4_130497_55110	NW_004515938.1	Scaffold477	55110	AA	GG	1946951445
SNP_P4_130498_55129	NW_004515938.1	Scaffold477	55129	GG	AA	1946951447
SNP_P4_130499_55248	NW_004515938.1	Scaffold477	55248	AA	GG	1946951449
SNP_P4_130500_55386	NW_004515938.1	Scaffold477	55386	TT	CC	1946951451
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SNP_P4_130502_55728	NW_004515938.1	Scaffold477	55728	AA	GG	1946951455
SNP_P4_130503_55871	NW_004515938.1	Scaffold477	55871	TT	CC	1946951457
SNP_P4_130504_55911	NW_004515938.1	Scaffold477	55911	AA	GG	1946951459
SNP_P4_130505_55994	NW_004515938.1	Scaffold477	55994	GG	AA	1946951460
SNP_P4_130506_56733	NW_004515938.1	Scaffold477	56733	TT	CC	1946951462
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_130510_60774	NW_004515938.1	Scaffold477	60774	AA	GG	1946951470
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SNP_P4_130513_62474	NW_004515938.1	Scaffold477	62474	AA	TT	1946951476
SNP_P4_130514_62526	NW_004515938.1	Scaffold477	62526	GG	TT	1946951478
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SNP_P4_130517_65579	NW_004515938.1	Scaffold477	65579	GG	AA	1946951484
SNP_P4_130518_6026	NW_004515940.1	Scaffold479	6026	TT	AA	1946951486
SNP_P4_130519_6054	NW_004515940.1	Scaffold479	6054	CC	GG	1946951488
SNP_P4_130520_6597	NW_004515940.1	Scaffold479	6597	GG	TT	1946951490
SNP_P4_130521_6980	NW_004515940.1	Scaffold479	6980	AA	GG	1946951492
SNP_P4_130522_6999	NW_004515940.1	Scaffold479	6999	TT	GG	1946951494
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SNP_P4_130541_17004	NW_004515940.1	Scaffold479	17004	TT	AA	1946951519
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SNP_P4_130545_17618	NW_004515940.1	Scaffold479	17618	TT	GG	1946951526
SNP_P4_130546_17699	NW_004515940.1	Scaffold479	17699	AA	GG	1946951528
SNP_P4_130547_17939	NW_004515940.1	Scaffold479	17939	GG	TT	1946951530
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SNP_P4_130549_17999	NW_004515940.1	Scaffold479	17999	CC	TT	1946951534
SNP_P4_130550_18046	NW_004515940.1	Scaffold479	18046	TT	CC	1946951536
SNP_P4_130551_18254	NW_004515940.1	Scaffold479	18254	GG	AA	1946951538

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_130555_20336	NW_004515940.1	Scaffold479	20336	CC	AA	1946951546
SNP_P4_130556_20352	NW_004515940.1	Scaffold479	20352	AA	CC	1946951548
SNP_P4_130557_20409	NW_004515940.1	Scaffold479	20409	CC	TT	1946951549
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SNP_P4_130563_31620	NW_004515940.1	Scaffold479	31620	AA	TT	1946951561
SNP_P4_130564_31859	NW_004515940.1	Scaffold479	31859	TT	CC	1946951563
SNP_P4_130565_31866	NW_004515940.1	Scaffold479	31866	GG	AA	1946951565
SNP_P4_130566_31903	NW_004515940.1	Scaffold479	31903	TT	CC	1946951567
SNP_P4_130567_31916	NW_004515940.1	Scaffold479	31916	GG	CC	1946951569
SNP_P4_130568_31935	NW_004515940.1	Scaffold479	31935	AA	GG	1946951571
SNP_P4_130569_37971	NW_004515940.1	Scaffold479	37971	TT	CC	1946951573
SNP_P4_130570_37975	NW_004515940.1	Scaffold479	37975	CC	AA	1946951575
SNP_P4_130571_47330	NW_004515940.1	Scaffold479	47330	AA	CC	1946951577
SNP_P4_130572_47360	NW_004515940.1	Scaffold479	47360	TT	GG	1946951579
SNP_P4_130573_47361	NW_004515940.1	Scaffold479	47361	CC	AA	1946951581
SNP_P4_130574_47380	NW_004515940.1	Scaffold479	47380	AA	TT	1946951582
SNP_P4_130575_47386	NW_004515940.1	Scaffold479	47386	TT	CC	1946951584
SNP_P4_130576_47390	NW_004515940.1	Scaffold479	47390	AA	GG	1946951586
SNP_P4_130577_47399	NW_004515940.1	Scaffold479	47399	AA	TT	1946951588
SNP_P4_130578_48735	NW_004515940.1	Scaffold479	48735	TT	CC	1946951590
SNP_P4_130579_48778	NW_004515940.1	Scaffold479	48778	CC	TT	1946951592
SNP_P4_130580_48809	NW_004515940.1	Scaffold479	48809	TT	CC	1946951594
SNP_P4_130581_48930	NW_004515940.1	Scaffold479	48930	GG	AA	1946951596
SNP_P4_130582_48932	NW_004515940.1	Scaffold479	48932	TT	GG	1946951598
SNP_P4_130583_55097	NW_004515940.1	Scaffold479	55097	CC	AA	1946951600
SNP_P4_130584_55382	NW_004515940.1	Scaffold479	55382	AA	TT	1946951602
SNP_P4_130585_55395	NW_004515940.1	Scaffold479	55395	AA	TT	1946951604
SNP_P4_130586_55445	NW_004515940.1	Scaffold479	55445	TT	AA	1946951606
SNP_P4_130587_55474	NW_004515940.1	Scaffold479	55474	TT	CC	1946951608
SNP_P4_130588_55543	NW_004515940.1	Scaffold479	55543	TT	GG	1946951610
SNP_P4_130589_55582	NW_004515940.1	Scaffold479	55582	AA	TT	1946951612
SNP_P4_130590_55592	NW_004515940.1	Scaffold479	55592	CC	GG	1946951613
SNP_P4_130591_55609	NW_004515940.1	Scaffold479	55609	GG	TT	1946951615
SNP_P4_130592_56624	NW_004515940.1	Scaffold479	56624	TT	AA	1946951617
SNP_P4_130593_62961	NW_004515940.1	Scaffold479	62961	GG	TT	1946951619

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_130595_73511	NW_004515940.1	Scaffold479	73511	CC	TT	1946951623
SNP_P4_130596_78116	NW_004515940.1	Scaffold479	78116	CC	AA	1946951625
SNP_P4_130597_79540	NW_004515940.1	Scaffold479	79540	AA	TT	1946951627
SNP_P4_130598_79556	NW_004515940.1	Scaffold479	79556	TT	CC	1946951629
SNP_P4_130599_79568	NW_004515940.1	Scaffold479	79568	CC	AA	1946951631
SNP_P4_130600_87565	NW_004515940.1	Scaffold479	87565	AA	GG	1946951633
SNP_P4_130601_87631	NW_004515940.1	Scaffold479	87631	CC	TT	1946951635
SNP_P4_130602_87670	NW_004515940.1	Scaffold479	87670	TT	CC	1946951637
SNP_P4_130603_88001	NW_004515940.1	Scaffold479	88001	GG	AA	1946951639
SNP_P4_130604_88017	NW_004515940.1	Scaffold479	88017	AA	TT	1946951641
SNP_P4_130605_88018	NW_004515940.1	Scaffold479	88018	TT	GG	1946951643
SNP_P4_130606_88019	NW_004515940.1	Scaffold479	88019	GG	AA	1946951645
SNP_P4_130607_88215	NW_004515940.1	Scaffold479	88215	AA	CC	1946951647
SNP_P4_130608_88230	NW_004515940.1	Scaffold479	88230	GG	TT	1946951649
SNP_P4_130609_88247	NW_004515940.1	Scaffold479	88247	TT	AA	1946951651
SNP_P4_130610_88276	NW_004515940.1	Scaffold479	88276	AA	CC	1946951653
SNP_P4_130611_97863	NW_004515940.1	Scaffold479	97863	TT	AA	1946951655
SNP_P4_130612_97890	NW_004515940.1	Scaffold479	97890	CC	GG	1946951657
SNP_P4_130613_97899	NW_004515940.1	Scaffold479	97899	CC	AA	1946951659
SNP_P4_130614_108647	NW_004515940.1	Scaffold479	108647	GG	TT	1946951661
SNP_P4_130615_108994	NW_004515940.1	Scaffold479	108994	GG	AA	1946951663
SNP_P4_130616_110172	NW_004515940.1	Scaffold479	110172	TT	CC	1946951665
SNP_P4_130617_116985	NW_004515940.1	Scaffold479	116985	CC	AA	1946951667
SNP_P4_130618_117041	NW_004515940.1	Scaffold479	117041	TT	GG	1946951669
SNP_P4_130619_117740	NW_004515940.1	Scaffold479	117740	TT	CC	1946951671
SNP_P4_130620_120137	NW_004515940.1	Scaffold479	120137	TT	GG	1946951673
SNP_P4_130621_121997	NW_004515940.1	Scaffold479	121997	TT	AA	1946951675
SNP_P4_130622_122036	NW_004515940.1	Scaffold479	122036	TT	CC	1946951677
SNP_P4_130623_122037	NW_004515940.1	Scaffold479	122037	TT	AA	1946951679
SNP_P4_130625_125189	NW_004515940.1	Scaffold479	125189	GG	CC	1946951681
SNP_P4_130626_125261	NW_004515940.1	Scaffold479	125261	TT	CC	1946951683
SNP_P4_130628_125425	NW_004515940.1	Scaffold479	125425	TT	AA	1946951685
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SNP_P4_130630_125574	NW_004515940.1	Scaffold479	125574	GG	AA	1946951688
SNP_P4_130631_125578	NW_004515940.1	Scaffold479	125578	TT	AA	1946951690
SNP_P4_130632_125591	NW_004515940.1	Scaffold479	125591	TT	CC	1946951692
SNP_P4_130633_125640	NW_004515940.1	Scaffold479	125640	AA	GG	1946951694
SNP_P4_130634_125660	NW_004515940.1	Scaffold479	125660	GG	AA	1946951696
SNP_P4_130635_125664	NW_004515940.1	Scaffold479	125664	TT	CC	1946951698
SNP_P4_130636_125682	NW_004515940.1	Scaffold479	125682	GG	TT	1946951700
SNP_P4_130637_125906	NW_004515940.1	Scaffold479	125906	AA	CC	1946951702

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_130639_129289	NW_004515940.1	Scaffold479	129289	CC	TT	1946951706
SNP_P4_130640_129342	NW_004515940.1	Scaffold479	129342	GG	TT	1946951708
SNP_P4_130641_129399	NW_004515940.1	Scaffold479	129399	CC	TT	1946951710
SNP_P4_130642_130250	NW_004515940.1	Scaffold479	130250	CC	TT	1946951712
SNP_P4_130643_130498	NW_004515940.1	Scaffold479	130498	CC	TT	1946951714
SNP_P4_130644_130504	NW_004515940.1	Scaffold479	130504	AA	TT	1946951716
SNP_P4_130645_130529	NW_004515940.1	Scaffold479	130529	CC	AA	1946951718
SNP_P4_130646_130575	NW_004515940.1	Scaffold479	130575	TT	GG	1946951720
SNP_P4_130647_130586	NW_004515940.1	Scaffold479	130586	GG	CC	1946951722
SNP_P4_130648_130607	NW_004515940.1	Scaffold479	130607	TT	GG	1946951724
SNP_P4_130649_130639	NW_004515940.1	Scaffold479	130639	TT	CC	1946951726
SNP_P4_130650_130670	NW_004515940.1	Scaffold479	130670	CC	AA	1946951728
SNP_P4_130651_130715	NW_004515940.1	Scaffold479	130715	TT	CC	1946951730
SNP_P4_130652_130884	NW_004515940.1	Scaffold479	130884	TT	AA	1946951732
SNP_P4_130653_130956	NW_004515940.1	Scaffold479	130956	AA	CC	1946951734
SNP_P4_130654_130961	NW_004515940.1	Scaffold479	130961	GG	AA	1946951736
SNP_P4_130655_130969	NW_004515940.1	Scaffold479	130969	AA	CC	1946951738
SNP_P4_130656_130971	NW_004515940.1	Scaffold479	130971	AA	GG	1946951740
SNP_P4_130657_131012	NW_004515940.1	Scaffold479	131012	AA	TT	1946951742
SNP_P4_130658_131033	NW_004515940.1	Scaffold479	131033	TT	CC	1946951744
SNP_P4_130659_131047	NW_004515940.1	Scaffold479	131047	TT	AA	1946951746
SNP_P4_130660_131127	NW_004515940.1	Scaffold479	131127	TT	GG	1946951748
SNP_P4_130661_131888	NW_004515940.1	Scaffold479	131888	TT	AA	1946951750
SNP_P4_130662_136055	NW_004515940.1	Scaffold479	136055	TT	AA	1946951752
SNP_P4_130663_138964	NW_004515940.1	Scaffold479	138964	AA	GG	1946951754
SNP_P4_130664_139206	NW_004515940.1	Scaffold479	139206	GG	TT	1946951756
SNP_P4_130665_139218	NW_004515940.1	Scaffold479	139218	AA	GG	1946951758
SNP_P4_130666_139230	NW_004515940.1	Scaffold479	139230	GG	TT	1946951760
SNP_P4_130667_139234	NW_004515940.1	Scaffold479	139234	TT	GG	1946951762
SNP_P4_130668_139259	NW_004515940.1	Scaffold479	139259	TT	GG	1946951764
SNP_P4_130669_139290	NW_004515940.1	Scaffold479	139290	TT	CC	1946951766
SNP_P4_130670_139314	NW_004515940.1	Scaffold479	139314	AA	CC	1946951768
SNP_P4_130671_139345	NW_004515940.1	Scaffold479	139345	TT	GG	1946951770
SNP_P4_130672_139347	NW_004515940.1	Scaffold479	139347	TT	AA	1946951772
SNP_P4_130673_139365	NW_004515940.1	Scaffold479	139365	TT	CC	1946951774
SNP_P4_130674_139366	NW_004515940.1	Scaffold479	139366	CC	TT	1946951776
SNP_P4_130675_139377	NW_004515940.1	Scaffold479	139377	GG	TT	1946951778
SNP_P4_130676_143059	NW_004515940.1	Scaffold479	143059	GG	AA	1946951780
SNP_P4_130677_148277	NW_004515940.1	Scaffold479	148277	TT	GG	1946951782
SNP_P4_130678_151260	NW_004515940.1	Scaffold479	151260	TT	GG	1946951784
SNP_P4_130679_151282	NW_004515940.1	Scaffold479	151282	CC	TT	1946951786

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_130681_153990	NW_004515940.1	Scaffold479	153990	TT	CC	1946951790
SNP_P4_130682_153998	NW_004515940.1	Scaffold479	153998	TT	GG	1946951792
SNP_P4_130683_154377	NW_004515940.1	Scaffold479	154377	TT	CC	1946951794
SNP_P4_130684_154718	NW_004515940.1	Scaffold479	154718	GG	TT	1946951796
SNP_P4_130685_154748	NW_004515940.1	Scaffold479	154748	CC	TT	1946951798
SNP_P4_130686_154771	NW_004515940.1	Scaffold479	154771	AA	GG	1946951800
SNP_P4_130687_154781	NW_004515940.1	Scaffold479	154781	AA	TT	1946951802
SNP_P4_130688_154848	NW_004515940.1	Scaffold479	154848	TT	CC	1946951804
SNP_P4_130689_154857	NW_004515940.1	Scaffold479	154857	TT	GG	1946951806
SNP_P4_130690_154868	NW_004515940.1	Scaffold479	154868	TT	AA	1946951808
SNP_P4_130691_154951	NW_004515940.1	Scaffold479	154951	CC	TT	1946951810
SNP_P4_130692_154976	NW_004515940.1	Scaffold479	154976	CC	GG	1946951812
SNP_P4_130693_156323	NW_004515940.1	Scaffold479	156323	GG	AA	1946951814
SNP_P4_130694_156360	NW_004515940.1	Scaffold479	156360	TT	CC	1946951816
SNP_P4_130695_156363	NW_004515940.1	Scaffold479	156363	TT	CC	1946951818
SNP_P4_130697_33645	NW_004515941.1	Scaffold480	33645	TT	CC	1946951820
SNP_P4_130698_33688	NW_004515941.1	Scaffold480	33688	CC	AA	1946951822
SNP_P4_130699_33724	NW_004515941.1	Scaffold480	33724	CC	TT	1946951824
SNP_P4_130700_33729	NW_004515941.1	Scaffold480	33729	AA	GG	1946951826
SNP_P4_130701_33735	NW_004515941.1	Scaffold480	33735	AA	CC	1946951828
SNP_P4_130702_33762	NW_004515941.1	Scaffold480	33762	AA	GG	1946951830
SNP_P4_130703_33772	NW_004515941.1	Scaffold480	33772	AA	GG	1946951832
SNP_P4_130704_34472	NW_004515941.1	Scaffold480	34472	AA	GG	1946951834
SNP_P4_130706_34569	NW_004515941.1	Scaffold480	34569	TT	AA	1946951836
SNP_P4_130707_43084	NW_004515941.1	Scaffold480	43084	GG	AA	1946951838
SNP_P4_130708_43093	NW_004515941.1	Scaffold480	43093	AA	GG	1946951840
SNP_P4_130710_43226	NW_004515941.1	Scaffold480	43226	TT	CC	1946951842
SNP_P4_130711_43416	NW_004515941.1	Scaffold480	43416	GG	AA	1946951844
SNP_P4_130712_43428	NW_004515941.1	Scaffold480	43428	CC	AA	1946951846
SNP_P4_130713_43460	NW_004515941.1	Scaffold480	43460	CC	TT	1946951848
SNP_P4_130714_43461	NW_004515941.1	Scaffold480	43461	TT	CC	1946951850
SNP_P4_130715_43464	NW_004515941.1	Scaffold480	43464	TT	GG	1946951852
SNP_P4_130716_43542	NW_004515941.1	Scaffold480	43542	AA	GG	1946951854
SNP_P4_130717_43569	NW_004515941.1	Scaffold480	43569	AA	GG	1946951856
SNP_P4_130718_43588	NW_004515941.1	Scaffold480	43588	AA	GG	1946951858
SNP_P4_130719_43630	NW_004515941.1	Scaffold480	43630	TT	CC	1946951860
SNP_P4_130720_69910	NW_004515941.1	Scaffold480	69910	AA	GG	1946951862
SNP_P4_130721_71555	NW_004515941.1	Scaffold480	71555	CC	TT	1946951864
SNP_P4_130722_72517	NW_004515941.1	Scaffold480	72517	CC	AA	1946951866
SNP_P4_130723_78144	NW_004515941.1	Scaffold480	78144	CC	TT	1946951868
SNP_P4_130724_78178	NW_004515941.1	Scaffold480	78178	CC	GG	1946951870

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_130726_187	NW_004515942.1	Scaffold481	187	GG	TT	1946951874
SNP_P4_130727_249	NW_004515942.1	Scaffold481	249	TT	CC	1946951876
SNP_P4_130728_470	NW_004515942.1	Scaffold481	470	AA	GG	1946951878
SNP_P4_130729_8839	NW_004515942.1	Scaffold481	8839	AA	TT	1946951880
SNP_P4_130730_15344	NW_004515944.1	Scaffold484	15344	GG	TT	1946951882
SNP_P4_130731_15348	NW_004515944.1	Scaffold484	15348	CC	AA	1946951884
SNP_P4_130732_15349	NW_004515944.1	Scaffold484	15349	AA	CC	1946951886
SNP_P4_130733_26104	NW_004515944.1	Scaffold484	26104	CC	TT	1946951888
SNP_P4_130734_27388	NW_004515944.1	Scaffold484	27388	TT	CC	1946951890
SNP_P4_130735_27515	NW_004515944.1	Scaffold484	27515	CC	GG	1946951892
SNP_P4_130736_27606	NW_004515944.1	Scaffold484	27606	GG	AA	1946951894
SNP_P4_130737_27651	NW_004515944.1	Scaffold484	27651	CC	AA	1946951896
SNP_P4_130738_27818	NW_004515944.1	Scaffold484	27818	CC	AA	1946951898
SNP_P4_130739_27862	NW_004515944.1	Scaffold484	27862	CC	TT	1946951900
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SNP_P4_130742_34494	NW_004515944.1	Scaffold484	34494	AA	CC	1946951906
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SNP_P4_130747_54554	NW_004515944.1	Scaffold484	54554	GG	TT	1946951916
SNP_P4_130749_79643	NW_004515944.1	Scaffold484	79643	AA	GG	1946951918
SNP_P4_130750_80021	NW_004515944.1	Scaffold484	80021	GG	AA	1946951920
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SNP_P4_130753_96220	NW_004515944.1	Scaffold484	96220	TT	CC	1946951926
SNP_P4_130754_136295	NW_004515944.1	Scaffold484	136295	AA	GG	1946951928
SNP_P4_130756_154492	NW_004515944.1	Scaffold484	154492	TT	AA	1946951930
SNP_P4_130757_154498	NW_004515944.1	Scaffold484	154498	GG	AA	1946951932
SNP_P4_130758_154505	NW_004515944.1	Scaffold484	154505	AA	GG	1946951934
SNP_P4_130759_154529	NW_004515944.1	Scaffold484	154529	CC	AA	1946951936
SNP_P4_130760_154538	NW_004515944.1	Scaffold484	154538	AA	GG	1946951938
SNP_P4_130761_154554	NW_004515944.1	Scaffold484	154554	TT	CC	1946951940
SNP_P4_130762_172484	NW_004515944.1	Scaffold484	172484	AA	TT	1946951942
SNP_P4_130763_179933	NW_004515944.1	Scaffold484	179933	CC	GG	1946951944
SNP_P4_130764_205392	NW_004515944.1	Scaffold484	205392	CC	TT	1946951946
SNP_P4_130765_227776	NW_004515944.1	Scaffold484	227776	GG	TT	1946951948
SNP_P4_130766_228833	NW_004515944.1	Scaffold484	228833	TT	CC	1946951950
SNP_P4_130767_247010	NW_004515944.1	Scaffold484	247010	GG	TT	1946951952
SNP_P4_130768_247512	NW_004515944.1	Scaffold484	247512	GG	CC	1946951954

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_130771_271545	NW_004515944.1	Scaffold484	271545	TT	CC	1946951960
SNP_P4_130772_271616	NW_004515944.1	Scaffold484	271616	AA	GG	1946951962
SNP_P4_130773_271922	NW_004515944.1	Scaffold484	271922	AA	GG	1946951964
SNP_P4_130774_271975	NW_004515944.1	Scaffold484	271975	TT	CC	1946951966
SNP_P4_130775_271982	NW_004515944.1	Scaffold484	271982	TT	GG	1946951968
SNP_P4_130776_271995	NW_004515944.1	Scaffold484	271995	GG	TT	1946951970
SNP_P4_130777_271996	NW_004515944.1	Scaffold484	271996	TT	AA	1946951972
SNP_P4_130778_273857	NW_004515944.1	Scaffold484	273857	CC	TT	1946951974
SNP_P4_130779_275465	NW_004515944.1	Scaffold484	275465	TT	AA	1946951976
SNP_P4_130780_275474	NW_004515944.1	Scaffold484	275474	AA	TT	1946951978
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SNP_P4_130796_371303	NW_004515944.1	Scaffold484	371303	TT	CC	1946952006
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SNP_P4_130810_444755	NW_004515944.1	Scaffold484	444755	TT	CC	1946952034
SNP_P4_130811_449079	NW_004515944.1	Scaffold484	449079	AA	CC	1946952036
SNP_P4_130812_449110	NW_004515944.1	Scaffold484	449110	CC	TT	1946952038

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_130820_453336	NW_004515944.1	Scaffold484	453336	AA	GG	1946952054
SNP_P4_130821_453362	NW_004515944.1	Scaffold484	453362	TT	AA	1946952056
SNP_P4_130822_458471	NW_004515944.1	Scaffold484	458471	GG	TT	1946952058
SNP_P4_130823_458512	NW_004515944.1	Scaffold484	458512	AA	GG	1946952060
SNP_P4_130824_458946	NW_004515944.1	Scaffold484	458946	GG	AA	1946952062
SNP_P4_130825_463881	NW_004515944.1	Scaffold484	463881	TT	AA	1946952064
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SNP_P4_130827_484863	NW_004515944.1	Scaffold484	484863	TT	CC	1946952068
SNP_P4_130828_490608	NW_004515944.1	Scaffold484	490608	AA	CC	1946952070
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SNP_P4_130830_506239	NW_004515944.1	Scaffold484	506239	CC	TT	1946952074
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SNP_P4_130852_591565	NW_004515944.1	Scaffold484	591565	AA	TT	1946952118
SNP_P4_130853_591712	NW_004515944.1	Scaffold484	591712	GG	AA	1946952120
SNP_P4_130854_591759	NW_004515944.1	Scaffold484	591759	AA	CC	1946952122

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_130857_592190	NW_004515944.1	Scaffold484	592190	AA	GG	1946952128
SNP_P4_130858_632821	NW_004515944.1	Scaffold484	632821	CC	TT	1946952130
SNP_P4_130859_632912	NW_004515944.1	Scaffold484	632912	AA	GG	1946952132
SNP_P4_130860_633101	NW_004515944.1	Scaffold484	633101	AA	TT	1946952134
SNP_P4_130861_633122	NW_004515944.1	Scaffold484	633122	CC	TT	1946952136
SNP_P4_130862_641013	NW_004515944.1	Scaffold484	641013	GG	AA	1946952138
SNP_P4_130863_646927	NW_004515944.1	Scaffold484	646927	TT	CC	1946952140
SNP_P4_130864_656599	NW_004515944.1	Scaffold484	656599	TT	CC	1946952142
SNP_P4_130866_656803	NW_004515944.1	Scaffold484	656803	AA	GG	1946952144
SNP_P4_130867_656897	NW_004515944.1	Scaffold484	656897	TT	GG	1946952146
SNP_P4_130869_704490	NW_004515944.1	Scaffold484	704490	GG	AA	1946952148
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SNP_P4_130871_704588	NW_004515944.1	Scaffold484	704588	TT	AA	1946952152
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SNP_P4_130875_704674	NW_004515944.1	Scaffold484	704674	GG	AA	1946952158
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_130910_88806	NW_004515945.1	Scaffold485	88806	TT	GG	1946952220
SNP_P4_130911_93140	NW_004515945.1	Scaffold485	93140	AA	GG	1946952222
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_130950_9746	NW_004515946.1	Scaffold486	9746	CC	TT	1946952299
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SNP_P4_130958_19806	NW_004515946.1	Scaffold486	19806	AA	GG	1946952315
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SNP_P4_130988_119287	NW_004515946.1	Scaffold486	119287	CC	TT	1946952373
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_130992_156511	NW_004515946.1	Scaffold486	156511	AA	GG	1946952381
SNP_P4_130993_156890	NW_004515946.1	Scaffold486	156890	TT	CC	1946952383
SNP_P4_130994_204534	NW_004515946.1	Scaffold486	204534	CC	GG	1946952385
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SNP_P4_130996_209796	NW_004515946.1	Scaffold486	209796	AA	CC	1946952389
SNP_P4_130997_209823	NW_004515946.1	Scaffold486	209823	CC	TT	1946952391
SNP_P4_130998_216278	NW_004515946.1	Scaffold486	216278	AA	GG	1946952393
SNP_P4_130999_222673	NW_004515946.1	Scaffold486	222673	TT	CC	1946952395
SNP_P4_131000_223241	NW_004515946.1	Scaffold486	223241	AA	GG	1946952397
SNP_P4_131001_1685	NW_004515947.1	Scaffold487	1685	AA	CC	1946952399
SNP_P4_131002_1704	NW_004515947.1	Scaffold487	1704	GG	CC	1946952401
SNP_P4_131003_1740	NW_004515947.1	Scaffold487	1740	TT	CC	1946952403
SNP_P4_131004_1851	NW_004515947.1	Scaffold487	1851	TT	CC	1946952405
SNP_P4_131005_1855	NW_004515947.1	Scaffold487	1855	CC	TT	1946952407
SNP_P4_131006_1890	NW_004515947.1	Scaffold487	1890	CC	TT	1946952409
SNP_P4_131007_1899	NW_004515947.1	Scaffold487	1899	GG	AA	1946952411
SNP_P4_131008_1940	NW_004515947.1	Scaffold487	1940	AA	GG	1946952413
SNP_P4_131009_2093	NW_004515947.1	Scaffold487	2093	GG	AA	1946952415
SNP_P4_131010_2096	NW_004515947.1	Scaffold487	2096	GG	AA	1946952417
SNP_P4_131011_2100	NW_004515947.1	Scaffold487	2100	CC	TT	1946952419
SNP_P4_131012_2130	NW_004515947.1	Scaffold487	2130	AA	CC	1946952421
SNP_P4_131013_2253	NW_004515947.1	Scaffold487	2253	GG	AA	1946952423
SNP_P4_131014_2302	NW_004515947.1	Scaffold487	2302	TT	CC	1946952425
SNP_P4_131015_2346	NW_004515947.1	Scaffold487	2346	CC	AA	1946952427
SNP_P4_131016_2425	NW_004515947.1	Scaffold487	2425	TT	CC	1946952429
SNP_P4_131017_2583	NW_004515947.1	Scaffold487	2583	TT	AA	1946952431
SNP_P4_131018_3046	NW_004515947.1	Scaffold487	3046	CC	TT	1946952433
SNP_P4_131020_10095	NW_004515947.1	Scaffold487	10095	GG	CC	1946952435
SNP_P4_131021_10099	NW_004515947.1	Scaffold487	10099	TT	AA	1946952437
SNP_P4_131022_10100	NW_004515947.1	Scaffold487	10100	GG	TT	1946952439
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SNP_P4_131026_10446	NW_004515947.1	Scaffold487	10446	GG	AA	1946952447
SNP_P4_131027_10549	NW_004515947.1	Scaffold487	10549	AA	GG	1946952449
SNP_P4_131028_10561	NW_004515947.1	Scaffold487	10561	AA	GG	1946952451
SNP_P4_131029_10585	NW_004515947.1	Scaffold487	10585	GG	AA	1946952453
SNP_P4_131030_14898	NW_004515947.1	Scaffold487	14898	AA	TT	1946952455
SNP_P4_131031_15093	NW_004515947.1	Scaffold487	15093	GG	CC	1946952457
SNP_P4_131032_30286	NW_004515947.1	Scaffold487	30286	TT	CC	1946952459

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_131034_30687	NW_004515947.1	Scaffold487	30687	CC	TT	1946952463
SNP_P4_131035_31026	NW_004515947.1	Scaffold487	31026	TT	CC	1946952465
SNP_P4_131036_40423	NW_004515947.1	Scaffold487	40423	TT	CC	1946952467
SNP_P4_131037_40499	NW_004515947.1	Scaffold487	40499	TT	AA	1946952469
SNP_P4_131038_40581	NW_004515947.1	Scaffold487	40581	TT	GG	1946952471
SNP_P4_131039_40627	NW_004515947.1	Scaffold487	40627	TT	CC	1946952473
SNP_P4_131040_40674	NW_004515947.1	Scaffold487	40674	TT	CC	1946952476
SNP_P4_131041_40691	NW_004515947.1	Scaffold487	40691	CC	GG	1946952478
SNP_P4_131042_40726	NW_004515947.1	Scaffold487	40726	CC	TT	1946952480
SNP_P4_131043_40728	NW_004515947.1	Scaffold487	40728	TT	AA	1946952482
SNP_P4_131044_40818	NW_004515947.1	Scaffold487	40818	CC	TT	1946952484
SNP_P4_131045_40885	NW_004515947.1	Scaffold487	40885	AA	GG	1946952486
SNP_P4_131046_40929	NW_004515947.1	Scaffold487	40929	TT	AA	1946952488
SNP_P4_131047_40938	NW_004515947.1	Scaffold487	40938	TT	CC	1946952490
SNP_P4_131048_40960	NW_004515947.1	Scaffold487	40960	CC	AA	1946952492
SNP_P4_131049_40981	NW_004515947.1	Scaffold487	40981	TT	CC	1946952494
SNP_P4_131050_51233	NW_004515947.1	Scaffold487	51233	TT	CC	1946952496
SNP_P4_131051_51310	NW_004515947.1	Scaffold487	51310	GG	AA	1946952498
SNP_P4_131052_53536	NW_004515947.1	Scaffold487	53536	GG	CC	1946952500
SNP_P4_131053_61257	NW_004515947.1	Scaffold487	61257	AA	TT	1946952502
SNP_P4_131054_61666	NW_004515947.1	Scaffold487	61666	GG	AA	1946952504
SNP_P4_131055_61667	NW_004515947.1	Scaffold487	61667	AA	GG	1946952506
SNP_P4_131056_61704	NW_004515947.1	Scaffold487	61704	TT	CC	1946952508
SNP_P4_131057_68737	NW_004515947.1	Scaffold487	68737	GG	AA	1946952510
SNP_P4_131058_73881	NW_004515947.1	Scaffold487	73881	TT	CC	1946952512
SNP_P4_131059_79818	NW_004515947.1	Scaffold487	79818	GG	AA	1946952514
SNP_P4_131060_80272	NW_004515947.1	Scaffold487	80272	TT	AA	1946952516
SNP_P4_131061_81957	NW_004515947.1	Scaffold487	81957	TT	CC	1946952518
SNP_P4_131062_81962	NW_004515947.1	Scaffold487	81962	GG	CC	1946952520
SNP_P4_131063_83690	NW_004515947.1	Scaffold487	83690	CC	AA	1946952522
SNP_P4_131064_83694	NW_004515947.1	Scaffold487	83694	GG	AA	1946952524
SNP_P4_131065_83699	NW_004515947.1	Scaffold487	83699	GG	AA	1946952526
SNP_P4_131066_83718	NW_004515947.1	Scaffold487	83718	AA	TT	1946952528
SNP_P4_131067_83728	NW_004515947.1	Scaffold487	83728	CC	TT	1946952530
SNP_P4_131068_83750	NW_004515947.1	Scaffold487	83750	TT	GG	1946952532
SNP_P4_131069_83754	NW_004515947.1	Scaffold487	83754	CC	TT	1946952534
SNP_P4_131070_84110	NW_004515947.1	Scaffold487	84110	GG	TT	1946952536
SNP_P4_131071_84532	NW_004515947.1	Scaffold487	84532	GG	AA	1946952538
SNP_P4_131072_85052	NW_004515947.1	Scaffold487	85052	AA	CC	1946952540
SNP_P4_131074_88103	NW_004515947.1	Scaffold487	88103	TT	CC	1946952542
SNP_P4_131075_88246	NW_004515947.1	Scaffold487	88246	CC	TT	1946952544

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_131077_2474	NW_004515950.1	Scaffold491	2474	GG	AA	1946952548
SNP_P4_131078_2517	NW_004515950.1	Scaffold491	2517	TT	CC	1946952550
SNP_P4_131079_8756	NW_004515950.1	Scaffold491	8756	AA	CC	1946952552
SNP_P4_131080_8757	NW_004515950.1	Scaffold491	8757	GG	CC	1946952554
SNP_P4_131081_9036	NW_004515950.1	Scaffold491	9036	TT	AA	1946952556
SNP_P4_131082_9037	NW_004515950.1	Scaffold491	9037	GG	AA	1946952558
SNP_P4_131083_9053	NW_004515950.1	Scaffold491	9053	TT	AA	1946952560
SNP_P4_131084_9283	NW_004515950.1	Scaffold491	9283	GG	CC	1946952562
SNP_P4_131085_11282	NW_004515950.1	Scaffold491	11282	CC	AA	1946952564
SNP_P4_131086_11390	NW_004515950.1	Scaffold491	11390	CC	AA	1946952566
SNP_P4_131087_11412	NW_004515950.1	Scaffold491	11412	AA	GG	1946952568
SNP_P4_131088_11423	NW_004515950.1	Scaffold491	11423	TT	CC	1946952570
SNP_P4_131089_11457	NW_004515950.1	Scaffold491	11457	CC	GG	1946952572
SNP_P4_131090_11727	NW_004515950.1	Scaffold491	11727	CC	TT	1946952574
SNP_P4_131091_11771	NW_004515950.1	Scaffold491	11771	CC	GG	1946952576
SNP_P4_131092_11888	NW_004515950.1	Scaffold491	11888	AA	CC	1946952578
SNP_P4_131093_11904	NW_004515950.1	Scaffold491	11904	TT	CC	1946952580
SNP_P4_131094_12086	NW_004515950.1	Scaffold491	12086	TT	AA	1946952582
SNP_P4_131095_12091	NW_004515950.1	Scaffold491	12091	TT	CC	1946952584
SNP_P4_131096_12517	NW_004515950.1	Scaffold491	12517	AA	GG	1946952586
SNP_P4_131097_15760	NW_004515950.1	Scaffold491	15760	TT	AA	1946952588
SNP_P4_131098_20298	NW_004515950.1	Scaffold491	20298	TT	CC	1946952590
SNP_P4_131099_20308	NW_004515950.1	Scaffold491	20308	GG	AA	1946952592
SNP_P4_131100_20780	NW_004515950.1	Scaffold491	20780	AA	GG	1946952594
SNP_P4_131101_21389	NW_004515950.1	Scaffold491	21389	TT	CC	1946952596
SNP_P4_131102_21861	NW_004515950.1	Scaffold491	21861	AA	GG	1946952598
SNP_P4_131103_21862	NW_004515950.1	Scaffold491	21862	GG	TT	1946952600
SNP_P4_131104_22549	NW_004515950.1	Scaffold491	22549	TT	CC	1946952602
SNP_P4_131105_22654	NW_004515950.1	Scaffold491	22654	AA	GG	1946952604
SNP_P4_131106_22657	NW_004515950.1	Scaffold491	22657	GG	TT	1946952606
SNP_P4_131107_22728	NW_004515950.1	Scaffold491	22728	TT	AA	1946952608
SNP_P4_131108_22823	NW_004515950.1	Scaffold491	22823	TT	CC	1946952610
SNP_P4_131109_23029	NW_004515950.1	Scaffold491	23029	AA	GG	1946952612
SNP_P4_131110_23072	NW_004515950.1	Scaffold491	23072	AA	GG	1946952614
SNP_P4_131111_23368	NW_004515950.1	Scaffold491	23368	CC	TT	1946952616
SNP_P4_131112_23653	NW_004515950.1	Scaffold491	23653	TT	GG	1946952618
SNP_P4_131113_23669	NW_004515950.1	Scaffold491	23669	GG	AA	1946952620
SNP_P4_131114_26923	NW_004515950.1	Scaffold491	26923	GG	CC	1946952622
SNP_P4_131115_27248	NW_004515950.1	Scaffold491	27248	CC	AA	1946952624
SNP_P4_131116_29174	NW_004515950.1	Scaffold491	29174	AA	GG	1946952626
SNP_P4_131118_29492	NW_004515950.1	Scaffold491	29492	AA	GG	1946952628

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_131120_737	NW_004515951.1	Scaffold492	737	AA	GG	1946952632
SNP_P4_131121_751	NW_004515951.1	Scaffold492	751	CC	AA	1946952634
SNP_P4_131122_850	NW_004515951.1	Scaffold492	850	CC	AA	1946952636
SNP_P4_131123_1195	NW_004515951.1	Scaffold492	1195	GG	AA	1946952638
SNP_P4_131124_1342	NW_004515951.1	Scaffold492	1342	AA	GG	1946952640
SNP_P4_131125_1495	NW_004515951.1	Scaffold492	1495	TT	CC	1946952642
SNP_P4_131126_1785	NW_004515951.1	Scaffold492	1785	CC	AA	1946952644
SNP_P4_131127_2752	NW_004515951.1	Scaffold492	2752	GG	AA	1946952646
SNP_P4_131128_5917	NW_004515951.1	Scaffold492	5917	CC	GG	1946952648
SNP_P4_131129_5920	NW_004515951.1	Scaffold492	5920	TT	CC	1946952650
SNP_P4_131130_5934	NW_004515951.1	Scaffold492	5934	GG	AA	1946952652
SNP_P4_131131_5939	NW_004515951.1	Scaffold492	5939	CC	AA	1946952654
SNP_P4_131132_5955	NW_004515951.1	Scaffold492	5955	GG	AA	1946952656
SNP_P4_131133_5972	NW_004515951.1	Scaffold492	5972	TT	AA	1946952658
SNP_P4_131134_5992	NW_004515951.1	Scaffold492	5992	GG	CC	1946952660
SNP_P4_131135_15069	NW_004515951.1	Scaffold492	15069	GG	TT	1946952662
SNP_P4_131136_15083	NW_004515951.1	Scaffold492	15083	GG	TT	1946952664
SNP_P4_131137_15103	NW_004515951.1	Scaffold492	15103	AA	TT	1946952666
SNP_P4_131138_15115	NW_004515951.1	Scaffold492	15115	GG	AA	1946952668
SNP_P4_131139_15284	NW_004515951.1	Scaffold492	15284	AA	TT	1946952670
SNP_P4_131140_15291	NW_004515951.1	Scaffold492	15291	CC	TT	1946952672
SNP_P4_131141_15411	NW_004515951.1	Scaffold492	15411	CC	TT	1946952674
SNP_P4_131142_15496	NW_004515951.1	Scaffold492	15496	AA	GG	1946952676
SNP_P4_131143_15506	NW_004515951.1	Scaffold492	15506	AA	TT	1946952678
SNP_P4_131144_15548	NW_004515951.1	Scaffold492	15548	AA	GG	1946952680
SNP_P4_131145_15571	NW_004515951.1	Scaffold492	15571	AA	GG	1946952682
SNP_P4_131146_23536	NW_004515951.1	Scaffold492	23536	CC	TT	1946952684
SNP_P4_131147_23565	NW_004515951.1	Scaffold492	23565	CC	GG	1946952686
SNP_P4_131148_27550	NW_004515951.1	Scaffold492	27550	TT	CC	1946952688
SNP_P4_131149_27729	NW_004515951.1	Scaffold492	27729	TT	CC	1946952690
SNP_P4_131150_35256	NW_004515951.1	Scaffold492	35256	GG	CC	1946952692
SNP_P4_131151_35745	NW_004515951.1	Scaffold492	35745	GG	AA	1946952694
SNP_P4_131153_35988	NW_004515951.1	Scaffold492	35988	GG	TT	1946952696
SNP_P4_131154_36132	NW_004515951.1	Scaffold492	36132	CC	TT	1946952698
SNP_P4_131155_36135	NW_004515951.1	Scaffold492	36135	GG	CC	1946952700
SNP_P4_131156_36205	NW_004515951.1	Scaffold492	36205	GG	AA	1946952702
SNP_P4_131157_36477	NW_004515951.1	Scaffold492	36477	GG	TT	1946952704
SNP_P4_131158_36568	NW_004515951.1	Scaffold492	36568	CC	TT	1946952706
SNP_P4_131160_36848	NW_004515951.1	Scaffold492	36848	GG	TT	1946952708
SNP_P4_131161_36980	NW_004515951.1	Scaffold492	36980	TT	GG	1946952710
SNP_P4_131162_36985	NW_004515951.1	Scaffold492	36985	CC	TT	1946952712

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_131165_45083	NW_004515952.1	Scaffold493	45083	TT	CC	1946952716
SNP_P4_131166_45165	NW_004515952.1	Scaffold493	45165	AA	GG	1946952718
SNP_P4_131167_45181	NW_004515952.1	Scaffold493	45181	AA	CC	1946952720
SNP_P4_131168_45216	NW_004515952.1	Scaffold493	45216	TT	CC	1946952722
SNP_P4_131169_45263	NW_004515952.1	Scaffold493	45263	TT	CC	1946952724
SNP_P4_131170_47343	NW_004515952.1	Scaffold493	47343	TT	CC	1946952726
SNP_P4_131171_47513	NW_004515952.1	Scaffold493	47513	GG	AA	1946952728
SNP_P4_131172_47598	NW_004515952.1	Scaffold493	47598	CC	TT	1946952730
SNP_P4_131173_47664	NW_004515952.1	Scaffold493	47664	GG	CC	1946952732
SNP_P4_131174_47697	NW_004515952.1	Scaffold493	47697	GG	AA	1946952734
SNP_P4_131175_47716	NW_004515952.1	Scaffold493	47716	CC	GG	1946952737
SNP_P4_131176_47717	NW_004515952.1	Scaffold493	47717	CC	TT	1946952739
SNP_P4_131177_47727	NW_004515952.1	Scaffold493	47727	CC	TT	1946952741
SNP_P4_131178_47757	NW_004515952.1	Scaffold493	47757	TT	CC	1946952743
SNP_P4_131179_47831	NW_004515952.1	Scaffold493	47831	AA	GG	1946952745
SNP_P4_131180_49530	NW_004515952.1	Scaffold493	49530	TT	CC	1946952747
SNP_P4_131181_50578	NW_004515952.1	Scaffold493	50578	AA	GG	1946952749
SNP_P4_131182_52081	NW_004515952.1	Scaffold493	52081	TT	CC	1946952751
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SNP_P4_131190_71013	NW_004515952.1	Scaffold493	71013	CC	TT	1946952767
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SNP_P4_131193_84504	NW_004515952.1	Scaffold493	84504	TT	AA	1946952773
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SNP_P4_131195_84558	NW_004515952.1	Scaffold493	84558	AA	TT	1946952777
SNP_P4_131196_84588	NW_004515952.1	Scaffold493	84588	AA	TT	1946952779
SNP_P4_131197_87138	NW_004515952.1	Scaffold493	87138	CC	TT	1946952781
SNP_P4_131198_87171	NW_004515952.1	Scaffold493	87171	TT	CC	1946952783
SNP_P4_131199_87209	NW_004515952.1	Scaffold493	87209	AA	GG	1946952785
SNP_P4_131200_87547	NW_004515952.1	Scaffold493	87547	AA	TT	1946952787
SNP_P4_131201_87603	NW_004515952.1	Scaffold493	87603	TT	CC	1946952789
SNP_P4_131202_87715	NW_004515952.1	Scaffold493	87715	AA	CC	1946952791
SNP_P4_131203_87921	NW_004515952.1	Scaffold493	87921	TT	CC	1946952793
SNP_P4_131204_87959	NW_004515952.1	Scaffold493	87959	TT	CC	1946952795
SNP_P4_131205_87961	NW_004515952.1	Scaffold493	87961	AA	GG	1946952797

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_131207_87998	NW_004515952.1	Scaffold493	87998	AA	GG	1946952801
SNP_P4_131208_88063	NW_004515952.1	Scaffold493	88063	GG	AA	1946952803
SNP_P4_131209_88099	NW_004515952.1	Scaffold493	88099	AA	GG	1946952805
SNP_P4_131210_88390	NW_004515952.1	Scaffold493	88390	GG	AA	1946952807
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SNP_P4_131212_88424	NW_004515952.1	Scaffold493	88424	CC	AA	1946952811
SNP_P4_131213_88425	NW_004515952.1	Scaffold493	88425	TT	CC	1946952813
SNP_P4_131214_88429	NW_004515952.1	Scaffold493	88429	AA	GG	1946952815
SNP_P4_131215_88456	NW_004515952.1	Scaffold493	88456	TT	GG	1946952817
SNP_P4_131216_88503	NW_004515952.1	Scaffold493	88503	CC	AA	1946952819
SNP_P4_131217_88505	NW_004515952.1	Scaffold493	88505	TT	AA	1946952821
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SNP_P4_131226_101069	NW_004515952.1	Scaffold493	101069	TT	CC	1946952839
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SNP_P4_131231_124028	NW_004515952.1	Scaffold493	124028	GG	AA	1946952847
SNP_P4_131233_124100	NW_004515952.1	Scaffold493	124100	CC	TT	1946952849
SNP_P4_131234_124120	NW_004515952.1	Scaffold493	124120	CC	TT	1946952851
SNP_P4_131235_124241	NW_004515952.1	Scaffold493	124241	AA	TT	1946952853
SNP_P4_131236_124463	NW_004515952.1	Scaffold493	124463	TT	AA	1946952855
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SNP_P4_131244_138187	NW_004515952.1	Scaffold493	138187	AA	GG	1946952870
SNP_P4_131245_142741	NW_004515952.1	Scaffold493	142741	AA	CC	1946952872
SNP_P4_131246_142759	NW_004515952.1	Scaffold493	142759	CC	TT	1946952874
SNP_P4_131247_142770	NW_004515952.1	Scaffold493	142770	TT	CC	1946952876
SNP_P4_131248_142836	NW_004515952.1	Scaffold493	142836	TT	AA	1946952878
SNP_P4_131249_144384	NW_004515952.1	Scaffold493	144384	AA	GG	1946952880

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_131251_170523	NW_004515952.1	Scaffold493	170523	CC	TT	1946952884
SNP_P4_131252_175027	NW_004515952.1	Scaffold493	175027	CC	TT	1946952886
SNP_P4_131253_184492	NW_004515952.1	Scaffold493	184492	AA	GG	1946952888
SNP_P4_131254_184530	NW_004515952.1	Scaffold493	184530	GG	AA	1946952890
SNP_P4_131255_184553	NW_004515952.1	Scaffold493	184553	AA	CC	1946952892
SNP_P4_131256_185046	NW_004515952.1	Scaffold493	185046	TT	CC	1946952894
SNP_P4_131257_185064	NW_004515952.1	Scaffold493	185064	GG	TT	1946952896
SNP_P4_131258_185176	NW_004515952.1	Scaffold493	185176	AA	GG	1946952898
SNP_P4_131259_185476	NW_004515952.1	Scaffold493	185476	TT	CC	1946952900
SNP_P4_131260_186668	NW_004515952.1	Scaffold493	186668	GG	TT	1946952902
SNP_P4_131261_196941	NW_004515952.1	Scaffold493	196941	CC	TT	1946952904
SNP_P4_131262_196960	NW_004515952.1	Scaffold493	196960	AA	GG	1946952905
SNP_P4_131263_217353	NW_004515952.1	Scaffold493	217353	CC	TT	1946952907
SNP_P4_131264_217771	NW_004515952.1	Scaffold493	217771	AA	TT	1946952909
SNP_P4_131265_218220	NW_004515952.1	Scaffold493	218220	AA	TT	1946952911
SNP_P4_131266_218221	NW_004515952.1	Scaffold493	218221	TT	AA	1946952913
SNP_P4_131267_222128	NW_004515952.1	Scaffold493	222128	AA	GG	1946952915
SNP_P4_131269_244226	NW_004515952.1	Scaffold493	244226	GG	AA	1946952917
SNP_P4_131270_257001	NW_004515952.1	Scaffold493	257001	GG	AA	1946952919
SNP_P4_131271_283307	NW_004515952.1	Scaffold493	283307	TT	AA	1946952921
SNP_P4_131272_283322	NW_004515952.1	Scaffold493	283322	CC	AA	1946952923
SNP_P4_131273_283504	NW_004515952.1	Scaffold493	283504	AA	CC	1946952925
SNP_P4_131274_293443	NW_004515952.1	Scaffold493	293443	CC	TT	1946952926
SNP_P4_131275_297262	NW_004515952.1	Scaffold493	297262	GG	TT	1946952928
SNP_P4_131276_297284	NW_004515952.1	Scaffold493	297284	GG	AA	1946952930
SNP_P4_131277_297332	NW_004515952.1	Scaffold493	297332	TT	AA	1946952932
SNP_P4_131278_297334	NW_004515952.1	Scaffold493	297334	AA	GG	1946952934
SNP_P4_131279_297453	NW_004515952.1	Scaffold493	297453	CC	TT	1946952936
SNP_P4_131280_651	NW_004515953.1	Scaffold495	651	TT	CC	1946952938
SNP_P4_131281_2815	NW_004515953.1	Scaffold495	2815	CC	TT	1946952940
SNP_P4_131282_10499	NW_004515953.1	Scaffold495	10499	CC	TT	1946952942
SNP_P4_131283_12172	NW_004515953.1	Scaffold495	12172	TT	CC	1946952944
SNP_P4_131285_15471	NW_004515953.1	Scaffold495	15471	AA	CC	1946952946
SNP_P4_131286_19784	NW_004515953.1	Scaffold495	19784	GG	TT	1946952948
SNP_P4_131288_26815	NW_004515953.1	Scaffold495	26815	AA	GG	1946952950
SNP_P4_131289_27152	NW_004515953.1	Scaffold495	27152	GG	TT	1946952952
SNP_P4_131290_27178	NW_004515953.1	Scaffold495	27178	CC	TT	1946952954
SNP_P4_131291_28694	NW_004515953.1	Scaffold495	28694	TT	CC	1946952956
SNP_P4_131292_28824	NW_004515953.1	Scaffold495	28824	CC	TT	1946952958
SNP_P4_131293_29378	NW_004515953.1	Scaffold495	29378	GG	TT	1946952960
SNP_P4_131294_30174	NW_004515953.1	Scaffold495	30174	GG	AA	1946952962

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_131297_35192	NW_004515953.1	Scaffold495	35192	GG	AA	1946952968
SNP_P4_131298_35255	NW_004515953.1	Scaffold495	35255	CC	TT	1946952970
SNP_P4_131299_36303	NW_004515953.1	Scaffold495	36303	AA	GG	1946952972
SNP_P4_131300_36335	NW_004515953.1	Scaffold495	36335	GG	AA	1946952974
SNP_P4_131301_37154	NW_004515953.1	Scaffold495	37154	TT	GG	1946952976
SNP_P4_131302_50595	NW_004515953.1	Scaffold495	50595	AA	CC	1946952978
SNP_P4_131303_53324	NW_004515953.1	Scaffold495	53324	CC	TT	1946952980
SNP_P4_131304_63932	NW_004515953.1	Scaffold495	63932	AA	GG	1946952982
SNP_P4_131305_64425	NW_004515953.1	Scaffold495	64425	TT	CC	1946952984
SNP_P4_131306_65058	NW_004515953.1	Scaffold495	65058	TT	AA	1946952986
SNP_P4_131307_66170	NW_004515953.1	Scaffold495	66170	CC	AA	1946952988
SNP_P4_131308_70080	NW_004515953.1	Scaffold495	70080	CC	AA	1946952990
SNP_P4_131309_70101	NW_004515953.1	Scaffold495	70101	AA	TT	1946952992
SNP_P4_131310_70102	NW_004515953.1	Scaffold495	70102	TT	GG	1946952994
SNP_P4_131311_70153	NW_004515953.1	Scaffold495	70153	AA	TT	1946952996
SNP_P4_131312_70170	NW_004515953.1	Scaffold495	70170	AA	GG	1946952998
SNP_P4_131313_70256	NW_004515953.1	Scaffold495	70256	TT	AA	1946953000
SNP_P4_131314_70482	NW_004515953.1	Scaffold495	70482	GG	AA	1946953002
SNP_P4_131315_71410	NW_004515953.1	Scaffold495	71410	AA	GG	1946953004
SNP_P4_131316_84291	NW_004515953.1	Scaffold495	84291	TT	CC	1946953006
SNP_P4_131317_84293	NW_004515953.1	Scaffold495	84293	AA	TT	1946953079
SNP_P4_131318_84296	NW_004515953.1	Scaffold495	84296	TT	AA	1946953081
SNP_P4_131319_84298	NW_004515953.1	Scaffold495	84298	AA	TT	1946953083
SNP_P4_131320_108411	NW_004515953.1	Scaffold495	108411	TT	CC	1946953085
SNP_P4_131321_110937	NW_004515953.1	Scaffold495	110937	GG	CC	1946953087
SNP_P4_131323_112129	NW_004515953.1	Scaffold495	112129	CC	TT	1946953089
SNP_P4_131324_112258	NW_004515953.1	Scaffold495	112258	CC	TT	1946953091
SNP_P4_131326_113185	NW_004515953.1	Scaffold495	113185	TT	GG	1946953093
SNP_P4_131327_113268	NW_004515953.1	Scaffold495	113268	GG	CC	1946953095
SNP_P4_131328_113287	NW_004515953.1	Scaffold495	113287	CC	AA	1946953097
SNP_P4_131329_113296	NW_004515953.1	Scaffold495	113296	CC	GG	1946953099
SNP_P4_131330_119913	NW_004515953.1	Scaffold495	119913	TT	CC	1946953101
SNP_P4_131331_120262	NW_004515953.1	Scaffold495	120262	AA	CC	1946953103
SNP_P4_131333_123537	NW_004515953.1	Scaffold495	123537	AA	TT	1946953105
SNP_P4_131334_125917	NW_004515953.1	Scaffold495	125917	TT	CC	1946953107
SNP_P4_131335_126274	NW_004515953.1	Scaffold495	126274	GG	AA	1946953109
SNP_P4_131336_126277	NW_004515953.1	Scaffold495	126277	TT	CC	1946953111
SNP_P4_131337_130347	NW_004515953.1	Scaffold495	130347	TT	CC	1946953113
SNP_P4_131338_130536	NW_004515953.1	Scaffold495	130536	AA	TT	1946953115
SNP_P4_131340_132063	NW_004515953.1	Scaffold495	132063	AA	TT	1946953117

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_131343_132779	NW_004515953.1	Scaffold495	132779	TT	AA	1946953122
SNP_P4_131344_132838	NW_004515953.1	Scaffold495	132838	TT	AA	1946953124
SNP_P4_131345_132853	NW_004515953.1	Scaffold495	132853	GG	TT	1946953126
SNP_P4_131346_132930	NW_004515953.1	Scaffold495	132930	TT	CC	1946953128
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SNP_P4_131348_133397	NW_004515953.1	Scaffold495	133397	GG	TT	1946953132
SNP_P4_131350_134728	NW_004515953.1	Scaffold495	134728	AA	GG	1946953134
SNP_P4_131353_139212	NW_004515953.1	Scaffold495	139212	TT	GG	1946953136
SNP_P4_131354_142398	NW_004515953.1	Scaffold495	142398	GG	AA	1946953138
SNP_P4_131355_11195	NW_004515954.1	Scaffold496	11195	AA	TT	1946953140
SNP_P4_131356_11196	NW_004515954.1	Scaffold496	11196	GG	AA	1946953142
SNP_P4_131357_11201	NW_004515954.1	Scaffold496	11201	AA	CC	1946953144
SNP_P4_131358_11203	NW_004515954.1	Scaffold496	11203	TT	CC	1946953146
SNP_P4_131359_11517	NW_004515954.1	Scaffold496	11517	CC	GG	1946953148
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SNP_P4_131361_11565	NW_004515954.1	Scaffold496	11565	AA	GG	1946953152
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SNP_P4_131363_11627	NW_004515954.1	Scaffold496	11627	AA	GG	1946953156
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SNP_P4_131380_41949	NW_004515954.1	Scaffold496	41949	CC	AA	1946953186
SNP_P4_131381_41951	NW_004515954.1	Scaffold496	41951	AA	GG	1946953188
SNP_P4_131382_41959	NW_004515954.1	Scaffold496	41959	TT	CC	1946953190
SNP_P4_131383_42051	NW_004515954.1	Scaffold496	42051	AA	GG	1946953191
SNP_P4_131384_42139	NW_004515954.1	Scaffold496	42139	AA	GG	1946953193
SNP_P4_131385_42147	NW_004515954.1	Scaffold496	42147	AA	TT	1946953195
SNP_P4_131386_42246	NW_004515954.1	Scaffold496	42246	TT	CC	1946953197

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_131390_42406	NW_004515954.1	Scaffold496	42406	CC	TT	1946953203
SNP_P4_131391_42490	NW_004515954.1	Scaffold496	42490	AA	GG	1946953205
SNP_P4_131393_42583	NW_004515954.1	Scaffold496	42583	CC	TT	1946953207
SNP_P4_131394_42598	NW_004515954.1	Scaffold496	42598	AA	CC	1946953209
SNP_P4_131395_48237	NW_004515954.1	Scaffold496	48237	TT	AA	1946953211
SNP_P4_131396_48253	NW_004515954.1	Scaffold496	48253	GG	AA	1946953213
SNP_P4_131397_54821	NW_004515954.1	Scaffold496	54821	AA	GG	1946953215
SNP_P4_131398_55006	NW_004515954.1	Scaffold496	55006	AA	GG	1946953217
SNP_P4_131399_55054	NW_004515954.1	Scaffold496	55054	AA	GG	1946953219
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SNP_P4_131428_122500	NW_004515954.1	Scaffold496	122500	GG	TT	1946953274
SNP_P4_131429_122526	NW_004515954.1	Scaffold496	122526	TT	CC	1946953276
SNP_P4_131430_122565	NW_004515954.1	Scaffold496	122565	TT	AA	1946953278
SNP_P4_131431_122720	NW_004515954.1	Scaffold496	122720	CC	GG	1946953280

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_131432_122812	NW_004515954.1	Scaffold496	122812	TT	AA	1946953282
SNP_P4_131433_122815	NW_004515954.1	Scaffold496	122815	AA	TT	1946953284
SNP_P4_131434_123075	NW_004515954.1	Scaffold496	123075	CC	TT	1946953286
SNP_P4_131435_123095	NW_004515954.1	Scaffold496	123095	TT	CC	1946953288
SNP_P4_131436_123125	NW_004515954.1	Scaffold496	123125	TT	CC	1946953290
SNP_P4_131437_123163	NW_004515954.1	Scaffold496	123163	AA	GG	1946953292
SNP_P4_131438_123178	NW_004515954.1	Scaffold496	123178	CC	TT	1946953294
SNP_P4_131439_123473	NW_004515954.1	Scaffold496	123473	AA	CC	1946953296
SNP_P4_131440_123500	NW_004515954.1	Scaffold496	123500	TT	CC	1946953298
SNP_P4_131441_123512	NW_004515954.1	Scaffold496	123512	TT	CC	1946953300
SNP_P4_131442_123533	NW_004515954.1	Scaffold496	123533	GG	CC	1946953302
SNP_P4_131443_123948	NW_004515954.1	Scaffold496	123948	AA	GG	1946953304
SNP_P4_131444_124011	NW_004515954.1	Scaffold496	124011	TT	CC	1946953306
SNP_P4_131445_124377	NW_004515954.1	Scaffold496	124377	AA	GG	1946953308
SNP_P4_131446_126693	NW_004515954.1	Scaffold496	126693	AA	GG	1946953310
SNP_P4_131447_126699	NW_004515954.1	Scaffold496	126699	AA	TT	1946953312
SNP_P4_131448_126865	NW_004515954.1	Scaffold496	126865	CC	TT	1946953314
SNP_P4_131449_127010	NW_004515954.1	Scaffold496	127010	AA	GG	1946953316
SNP_P4_131450_127285	NW_004515954.1	Scaffold496	127285	TT	GG	1946953318
SNP_P4_131451_129099	NW_004515954.1	Scaffold496	129099	GG	AA	1946953320
SNP_P4_131452_129147	NW_004515954.1	Scaffold496	129147	CC	TT	1946953322
SNP_P4_131453_129166	NW_004515954.1	Scaffold496	129166	CC	GG	1946953324
SNP_P4_131454_144746	NW_004515954.1	Scaffold496	144746	TT	CC	1946953326
SNP_P4_131455_144761	NW_004515954.1	Scaffold496	144761	TT	CC	1946953328
SNP_P4_131456_145132	NW_004515954.1	Scaffold496	145132	CC	GG	1946953330
SNP_P4_131457_149788	NW_004515954.1	Scaffold496	149788	TT	GG	1946953332
SNP_P4_131458_149845	NW_004515954.1	Scaffold496	149845	AA	TT	1946953334
SNP_P4_131459_165746	NW_004515954.1	Scaffold496	165746	TT	CC	1946953335
SNP_P4_131460_165793	NW_004515954.1	Scaffold496	165793	TT	CC	1946953337
SNP_P4_131461_166014	NW_004515954.1	Scaffold496	166014	AA	GG	1946953339
SNP_P4_131462_171753	NW_004515954.1	Scaffold496	171753	AA	CC	1946953341
SNP_P4_131463_171802	NW_004515954.1	Scaffold496	171802	TT	AA	1946953343
SNP_P4_131464_184641	NW_004515954.1	Scaffold496	184641	TT	CC	1946953344
SNP_P4_131465_184695	NW_004515954.1	Scaffold496	184695	GG	TT	1946953346
SNP_P4_131466_184705	NW_004515954.1	Scaffold496	184705	TT	AA	1946953348
SNP_P4_131467_184762	NW_004515954.1	Scaffold496	184762	CC	AA	1946953350
SNP_P4_131468_186439	NW_004515954.1	Scaffold496	186439	TT	CC	1946953352
SNP_P4_131469_186505	NW_004515954.1	Scaffold496	186505	TT	CC	1946953354
SNP_P4_131470_186836	NW_004515954.1	Scaffold496	186836	TT	CC	1946953356
SNP_P4_131471_190768	NW_004515954.1	Scaffold496	190768	TT	GG	1946953358
SNP_P4_131472_190775	NW_004515954.1	Scaffold496	190775	AA	GG	1946953360
SNP_P4_131473_190812	NW_004515954.1	Scaffold496	190812	TT	CC	1946953362

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_131475_190837	NW_004515954.1	Scaffold496	190837	CC	AA	1946953366
SNP_P4_131476_190860	NW_004515954.1	Scaffold496	190860	GG	AA	1946953368
SNP_P4_131477_190863	NW_004515954.1	Scaffold496	190863	TT	GG	1946953370
SNP_P4_131478_190875	NW_004515954.1	Scaffold496	190875	GG	AA	1946953372
SNP_P4_131479_191232	NW_004515954.1	Scaffold496	191232	CC	GG	1946953374
SNP_P4_131480_193746	NW_004515954.1	Scaffold496	193746	GG	TT	1946953376
SNP_P4_131481_197293	NW_004515954.1	Scaffold496	197293	AA	GG	1946953378
SNP_P4_131482_197498	NW_004515954.1	Scaffold496	197498	TT	CC	1946953380
SNP_P4_131483_197527	NW_004515954.1	Scaffold496	197527	TT	CC	1946953382
SNP_P4_131484_205217	NW_004515954.1	Scaffold496	205217	TT	CC	1946953384
SNP_P4_131485_205287	NW_004515954.1	Scaffold496	205287	TT	CC	1946953386
SNP_P4_131486_206206	NW_004515954.1	Scaffold496	206206	GG	AA	1946953388
SNP_P4_131487_206451	NW_004515954.1	Scaffold496	206451	GG	CC	1946953390
SNP_P4_131489_212755	NW_004515954.1	Scaffold496	212755	TT	CC	1946953392
SNP_P4_131490_219548	NW_004515954.1	Scaffold496	219548	AA	GG	1946953394
SNP_P4_131492_220832	NW_004515954.1	Scaffold496	220832	TT	CC	1946953396
SNP_P4_131493_221032	NW_004515954.1	Scaffold496	221032	GG	AA	1946953398
SNP_P4_131494_221193	NW_004515954.1	Scaffold496	221193	GG	AA	1946953400
SNP_P4_131495_221314	NW_004515954.1	Scaffold496	221314	TT	CC	1946953402
SNP_P4_131496_226920	NW_004515954.1	Scaffold496	226920	GG	CC	1946953404
SNP_P4_131497_228049	NW_004515954.1	Scaffold496	228049	GG	AA	1946953406
SNP_P4_131498_228050	NW_004515954.1	Scaffold496	228050	CC	GG	1946953408
SNP_P4_131499_228051	NW_004515954.1	Scaffold496	228051	AA	GG	1946953410
SNP_P4_131500_228399	NW_004515954.1	Scaffold496	228399	TT	GG	1946953412
SNP_P4_131501_228407	NW_004515954.1	Scaffold496	228407	TT	CC	1946953414
SNP_P4_131502_237399	NW_004515954.1	Scaffold496	237399	CC	AA	1946953416
SNP_P4_131503_243332	NW_004515954.1	Scaffold496	243332	TT	CC	1946953418
SNP_P4_131504_243398	NW_004515954.1	Scaffold496	243398	AA	GG	1946953419
SNP_P4_131505_243427	NW_004515954.1	Scaffold496	243427	TT	CC	1946953421
SNP_P4_131506_243717	NW_004515954.1	Scaffold496	243717	GG	TT	1946953423
SNP_P4_131507_244566	NW_004515954.1	Scaffold496	244566	TT	CC	1946953425
SNP_P4_131508_244573	NW_004515954.1	Scaffold496	244573	TT	AA	1946953426
SNP_P4_131509_244636	NW_004515954.1	Scaffold496	244636	CC	TT	1946953427
SNP_P4_131510_244684	NW_004515954.1	Scaffold496	244684	TT	CC	1946953428
SNP_P4_131511_245960	NW_004515954.1	Scaffold496	245960	GG	CC	1946953430
SNP_P4_131512_245969	NW_004515954.1	Scaffold496	245969	AA	GG	1946953432
SNP_P4_131513_245979	NW_004515954.1	Scaffold496	245979	TT	CC	1946953434
SNP_P4_131514_246233	NW_004515954.1	Scaffold496	246233	AA	TT	1946953436
SNP_P4_131515_263396	NW_004515954.1	Scaffold496	263396	TT	AA	1946953438
SNP_P4_131516_264208	NW_004515954.1	Scaffold496	264208	AA	CC	1946953440
SNP_P4_131517_264509	NW_004515954.1	Scaffold496	264509	AA	TT	1946953442

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_131519_264545	NW_004515954.1	Scaffold496	264545	AA	GG	1946953446
SNP_P4_131520_264813	NW_004515954.1	Scaffold496	264813	CC	GG	1946953448
SNP_P4_131521_264933	NW_004515954.1	Scaffold496	264933	GG	AA	1946953450
SNP_P4_131522_267082	NW_004515954.1	Scaffold496	267082	TT	GG	1946953452
SNP_P4_131523_270435	NW_004515954.1	Scaffold496	270435	AA	GG	1946953454
SNP_P4_131524_278790	NW_004515954.1	Scaffold496	278790	AA	GG	1946953456
SNP_P4_131525_43280	NW_004515955.1	Scaffold497	43280	CC	TT	1946953458
SNP_P4_131526_44947	NW_004515955.1	Scaffold497	44947	AA	GG	1946953460
SNP_P4_131527_44990	NW_004515955.1	Scaffold497	44990	GG	TT	1946953462
SNP_P4_131528_45102	NW_004515955.1	Scaffold497	45102	TT	AA	1946953464
SNP_P4_131529_45107	NW_004515955.1	Scaffold497	45107	AA	TT	1946953466
SNP_P4_131530_45156	NW_004515955.1	Scaffold497	45156	TT	GG	1946953468
SNP_P4_131531_46951	NW_004515955.1	Scaffold497	46951	GG	AA	1946953470
SNP_P4_131532_47012	NW_004515955.1	Scaffold497	47012	TT	GG	1946953472
SNP_P4_131533_47015	NW_004515955.1	Scaffold497	47015	GG	CC	1946953474
SNP_P4_131535_59972	NW_004515955.1	Scaffold497	59972	AA	TT	1946953476
SNP_P4_131536_59985	NW_004515955.1	Scaffold497	59985	CC	TT	1946953478
SNP_P4_131537_60280	NW_004515955.1	Scaffold497	60280	TT	CC	1946953480
SNP_P4_131538_60307	NW_004515955.1	Scaffold497	60307	GG	TT	1946953482
SNP_P4_131539_60318	NW_004515955.1	Scaffold497	60318	GG	AA	1946953484
SNP_P4_131540_60322	NW_004515955.1	Scaffold497	60322	GG	AA	1946953486
SNP_P4_131541_60345	NW_004515955.1	Scaffold497	60345	AA	CC	1946953488
SNP_P4_131542_62917	NW_004515955.1	Scaffold497	62917	CC	GG	1946953490
SNP_P4_131543_63054	NW_004515955.1	Scaffold497	63054	TT	CC	1946953492
SNP_P4_131544_63089	NW_004515955.1	Scaffold497	63089	TT	CC	1946953493
SNP_P4_131545_63107	NW_004515955.1	Scaffold497	63107	GG	TT	1946953495
SNP_P4_131546_63114	NW_004515955.1	Scaffold497	63114	AA	GG	1946953497
SNP_P4_131547_63118	NW_004515955.1	Scaffold497	63118	TT	CC	1946953499
SNP_P4_131548_63346	NW_004515955.1	Scaffold497	63346	AA	GG	1946953501
SNP_P4_131549_63402	NW_004515955.1	Scaffold497	63402	GG	TT	1946953503
SNP_P4_131550_68003	NW_004515955.1	Scaffold497	68003	AA	TT	1946953505
SNP_P4_131551_68007	NW_004515955.1	Scaffold497	68007	TT	CC	1946953507
SNP_P4_131552_68039	NW_004515955.1	Scaffold497	68039	GG	AA	1946953509
SNP_P4_131553_68332	NW_004515955.1	Scaffold497	68332	CC	TT	1946953511
SNP_P4_131554_69243	NW_004515955.1	Scaffold497	69243	CC	AA	1946953513
SNP_P4_131555_69244	NW_004515955.1	Scaffold497	69244	TT	AA	1946953515
SNP_P4_131556_69282	NW_004515955.1	Scaffold497	69282	GG	AA	1946953517
SNP_P4_131558_69332	NW_004515955.1	Scaffold497	69332	TT	AA	1946953519
SNP_P4_131559_69341	NW_004515955.1	Scaffold497	69341	AA	TT	1946953521
SNP_P4_131560_69440	NW_004515955.1	Scaffold497	69440	TT	AA	1946953523
SNP_P4_131562_69571	NW_004515955.1	Scaffold497	69571	TT	AA	1946953525

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_131564_69659	NW_004515955.1	Scaffold497	69659	AA	TT	1946953529
SNP_P4_131565_69943	NW_004515955.1	Scaffold497	69943	TT	GG	1946953531
SNP_P4_131566_69966	NW_004515955.1	Scaffold497	69966	AA	TT	1946953533
SNP_P4_131567_69975	NW_004515955.1	Scaffold497	69975	AA	GG	1946953535
SNP_P4_131568_69976	NW_004515955.1	Scaffold497	69976	AA	TT	1946953537
SNP_P4_131569_69977	NW_004515955.1	Scaffold497	69977	TT	AA	1946953539
SNP_P4_131570_69980	NW_004515955.1	Scaffold497	69980	CC	TT	1946953541
SNP_P4_131573_70095	NW_004515955.1	Scaffold497	70095	CC	TT	1946953543
SNP_P4_131574_70112	NW_004515955.1	Scaffold497	70112	GG	CC	1946953544
SNP_P4_131575_71741	NW_004515955.1	Scaffold497	71741	AA	GG	1946953546
SNP_P4_131576_71775	NW_004515955.1	Scaffold497	71775	AA	CC	1946953548
SNP_P4_131577_72106	NW_004515955.1	Scaffold497	72106	AA	GG	1946953550
SNP_P4_131578_72107	NW_004515955.1	Scaffold497	72107	GG	CC	1946953552
SNP_P4_131579_72122	NW_004515955.1	Scaffold497	72122	AA	CC	1946953554
SNP_P4_131580_72152	NW_004515955.1	Scaffold497	72152	CC	TT	1946953556
SNP_P4_131581_72153	NW_004515955.1	Scaffold497	72153	AA	GG	1946953558
SNP_P4_131582_72202	NW_004515955.1	Scaffold497	72202	CC	AA	1946953560
SNP_P4_131583_72368	NW_004515955.1	Scaffold497	72368	GG	CC	1946953562
SNP_P4_131584_72390	NW_004515955.1	Scaffold497	72390	TT	CC	1946953564
SNP_P4_131585_72420	NW_004515955.1	Scaffold497	72420	GG	TT	1946953566
SNP_P4_131586_72497	NW_004515955.1	Scaffold497	72497	GG	TT	1946953568
SNP_P4_131587_72631	NW_004515955.1	Scaffold497	72631	TT	AA	1946953570
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SNP_P4_131589_72663	NW_004515955.1	Scaffold497	72663	TT	GG	1946953574
SNP_P4_131591_73428	NW_004515955.1	Scaffold497	73428	AA	CC	1946953576
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SNP_P4_131594_73500	NW_004515955.1	Scaffold497	73500	GG	AA	1946953580
SNP_P4_131595_73507	NW_004515955.1	Scaffold497	73507	AA	TT	1946953582
SNP_P4_131596_73528	NW_004515955.1	Scaffold497	73528	AA	CC	1946953584
SNP_P4_131597_73584	NW_004515955.1	Scaffold497	73584	AA	CC	1946953586
SNP_P4_131598_73632	NW_004515955.1	Scaffold497	73632	AA	GG	1946953588
SNP_P4_131600_73682	NW_004515955.1	Scaffold497	73682	AA	GG	1946953590
SNP_P4_131601_73710	NW_004515955.1	Scaffold497	73710	TT	CC	1946953592
SNP_P4_131602_73744	NW_004515955.1	Scaffold497	73744	GG	TT	1946953594
SNP_P4_131603_73804	NW_004515955.1	Scaffold497	73804	AA	GG	1946953596
SNP_P4_131604_73831	NW_004515955.1	Scaffold497	73831	GG	AA	1946953598
SNP_P4_131605_73852	NW_004515955.1	Scaffold497	73852	TT	GG	1946953600
SNP_P4_131606_73909	NW_004515955.1	Scaffold497	73909	AA	TT	1946953602
SNP_P4_131607_82987	NW_004515955.1	Scaffold497	82987	AA	GG	1946953604
SNP_P4_131608_83068	NW_004515955.1	Scaffold497	83068	AA	GG	1946953605
SNP_P4_131609_84209	NW_004515955.1	Scaffold497	84209	CC	GG	1946953607

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_131611_84688	NW_004515955.1	Scaffold497	84688	AA	CC	1946953611
SNP_P4_131612_84776	NW_004515955.1	Scaffold497	84776	TT	AA	1946953613
SNP_P4_131613_85015	NW_004515955.1	Scaffold497	85015	TT	AA	1946953615
SNP_P4_131614_85095	NW_004515955.1	Scaffold497	85095	TT	AA	1946953617
SNP_P4_131615_85225	NW_004515955.1	Scaffold497	85225	AA	GG	1946953619
SNP_P4_131616_87994	NW_004515955.1	Scaffold497	87994	AA	TT	1946953621
SNP_P4_131617_88022	NW_004515955.1	Scaffold497	88022	GG	CC	1946953623
SNP_P4_131619_88065	NW_004515955.1	Scaffold497	88065	GG	AA	1946953625
SNP_P4_131620_92143	NW_004515955.1	Scaffold497	92143	TT	AA	1946953627
SNP_P4_131621_92403	NW_004515955.1	Scaffold497	92403	TT	CC	1946953629
SNP_P4_131622_92464	NW_004515955.1	Scaffold497	92464	CC	TT	1946953631
SNP_P4_131623_93983	NW_004515955.1	Scaffold497	93983	TT	CC	1946953633
SNP_P4_131624_94907	NW_004515955.1	Scaffold497	94907	TT	GG	1946953635
SNP_P4_131625_94983	NW_004515955.1	Scaffold497	94983	AA	TT	1946953637
SNP_P4_131626_95006	NW_004515955.1	Scaffold497	95006	GG	AA	1946953639
SNP_P4_131627_95042	NW_004515955.1	Scaffold497	95042	AA	TT	1946953641
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SNP_P4_131629_95099	NW_004515955.1	Scaffold497	95099	TT	GG	1946953645
SNP_P4_131630_95143	NW_004515955.1	Scaffold497	95143	AA	TT	1946953647
SNP_P4_131631_95178	NW_004515955.1	Scaffold497	95178	AA	GG	1946953649
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SNP_P4_131633_100533	NW_004515955.1	Scaffold497	100533	GG	AA	1946953653
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SNP_P4_131636_25787	NW_004515956.1	Scaffold498	25787	TT	GG	1946953659
SNP_P4_131637_25788	NW_004515956.1	Scaffold498	25788	CC	TT	1946953661
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SNP_P4_131639_43294	NW_004515956.1	Scaffold498	43294	TT	CC	1946953665
SNP_P4_131640_43590	NW_004515956.1	Scaffold498	43590	TT	AA	1946953667
SNP_P4_131641_43615	NW_004515956.1	Scaffold498	43615	AA	GG	1946953669
SNP_P4_131643_48803	NW_004515956.1	Scaffold498	48803	AA	GG	1946953671
SNP_P4_131644_48822	NW_004515956.1	Scaffold498	48822	GG	AA	1946953673
SNP_P4_131645_48911	NW_004515956.1	Scaffold498	48911	GG	AA	1946953675
SNP_P4_131646_48926	NW_004515956.1	Scaffold498	48926	GG	AA	1946953677
SNP_P4_131647_62814	NW_004515956.1	Scaffold498	62814	AA	TT	1946953679
SNP_P4_131649_104249	NW_004515956.1	Scaffold498	104249	CC	TT	1946953681
SNP_P4_131650_193466	NW_004515956.1	Scaffold498	193466	TT	CC	1946953683
SNP_P4_131651_193533	NW_004515956.1	Scaffold498	193533	CC	TT	1946953685
SNP_P4_131652_194088	NW_004515956.1	Scaffold498	194088	CC	TT	1946953687
SNP_P4_131653_198625	NW_004515956.1	Scaffold498	198625	TT	AA	1946953690
SNP_P4_131654_198640	NW_004515956.1	Scaffold498	198640	AA	TT	1946953692

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_131655_198652	NW_004515956.1	Scaffold498	198652	GG	TT	1946953694
SNP_P4_131656_198700	NW_004515956.1	Scaffold498	198700	TT	AA	1946953696
SNP_P4_131657_198703	NW_004515956.1	Scaffold498	198703	CC	TT	1946953698
SNP_P4_131658_198708	NW_004515956.1	Scaffold498	198708	TT	GG	1946953700
SNP_P4_131659_198809	NW_004515956.1	Scaffold498	198809	AA	GG	1946953702
SNP_P4_131660_198810	NW_004515956.1	Scaffold498	198810	TT	CC	1946953704
SNP_P4_131661_198811	NW_004515956.1	Scaffold498	198811	AA	GG	1946953706
SNP_P4_131662_198880	NW_004515956.1	Scaffold498	198880	CC	TT	1946953708
SNP_P4_131663_198905	NW_004515956.1	Scaffold498	198905	TT	AA	1946953710
SNP_P4_131664_198910	NW_004515956.1	Scaffold498	198910	GG	TT	1946953712
SNP_P4_131665_198916	NW_004515956.1	Scaffold498	198916	TT	CC	1946953714
SNP_P4_131666_198919	NW_004515956.1	Scaffold498	198919	TT	CC	1946953716
SNP_P4_131667_198922	NW_004515956.1	Scaffold498	198922	TT	CC	1946953718
SNP_P4_131668_199024	NW_004515956.1	Scaffold498	199024	GG	CC	1946953720
SNP_P4_131669_199108	NW_004515956.1	Scaffold498	199108	TT	CC	1946953722
SNP_P4_131670_199174	NW_004515956.1	Scaffold498	199174	TT	CC	1946953724
SNP_P4_131671_199211	NW_004515956.1	Scaffold498	199211	AA	GG	1946953726
SNP_P4_131672_205175	NW_004515956.1	Scaffold498	205175	AA	CC	1946953728
SNP_P4_131673_205321	NW_004515956.1	Scaffold498	205321	CC	TT	1946953730
SNP_P4_131674_205425	NW_004515956.1	Scaffold498	205425	CC	TT	1946953732
SNP_P4_131675_205619	NW_004515956.1	Scaffold498	205619	GG	AA	1946953734
SNP_P4_131676_205631	NW_004515956.1	Scaffold498	205631	TT	CC	1946953736
SNP_P4_131677_205637	NW_004515956.1	Scaffold498	205637	TT	CC	1946953738
SNP_P4_131678_205803	NW_004515956.1	Scaffold498	205803	AA	GG	1946953740
SNP_P4_131679_205879	NW_004515956.1	Scaffold498	205879	TT	CC	1946953742
SNP_P4_131680_205924	NW_004515956.1	Scaffold498	205924	CC	TT	1946953744
SNP_P4_131682_209845	NW_004515956.1	Scaffold498	209845	GG	TT	1946953746
SNP_P4_131683_211783	NW_004515956.1	Scaffold498	211783	TT	CC	1946953748
SNP_P4_131684_212085	NW_004515956.1	Scaffold498	212085	AA	GG	1946953750
SNP_P4_131685_212139	NW_004515956.1	Scaffold498	212139	AA	GG	1946953752
SNP_P4_131686_212216	NW_004515956.1	Scaffold498	212216	GG	TT	1946953754
SNP_P4_131687_212630	NW_004515956.1	Scaffold498	212630	TT	CC	1946953756
SNP_P4_131688_212655	NW_004515956.1	Scaffold498	212655	AA	CC	1946953758
SNP_P4_131689_213430	NW_004515956.1	Scaffold498	213430	AA	CC	1946953760
SNP_P4_131690_213706	NW_004515956.1	Scaffold498	213706	GG	TT	1946953762
SNP_P4_131691_213900	NW_004515956.1	Scaffold498	213900	TT	CC	1946953764
SNP_P4_131692_213949	NW_004515956.1	Scaffold498	213949	GG	AA	1946953766
SNP_P4_131696_214320	NW_004515956.1	Scaffold498	214320	CC	TT	1946953768
SNP_P4_131697_214452	NW_004515956.1	Scaffold498	214452	CC	TT	1946953770
SNP_P4_131699_214627	NW_004515956.1	Scaffold498	214627	GG	AA	1946953772
SNP_P4_131700_214678	NW_004515956.1	Scaffold498	214678	CC	AA	1946953774
SNP_P4_131701_214742	NW_004515956.1	Scaffold498	214742	TT	CC	1946953776

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_131703_215037	NW_004515956.1	Scaffold498	215037	AA	GG	1946953780
SNP_P4_131704_215043	NW_004515956.1	Scaffold498	215043	AA	GG	1946953782
SNP_P4_131705_215101	NW_004515956.1	Scaffold498	215101	AA	CC	1946953784
SNP_P4_131706_215250	NW_004515956.1	Scaffold498	215250	GG	AA	1946953786
SNP_P4_131707_215258	NW_004515956.1	Scaffold498	215258	CC	AA	1946953788
SNP_P4_131708_215506	NW_004515956.1	Scaffold498	215506	AA	GG	1946953790
SNP_P4_131709_215521	NW_004515956.1	Scaffold498	215521	AA	GG	1946953792
SNP_P4_131710_215559	NW_004515956.1	Scaffold498	215559	GG	AA	1946953794
SNP_P4_131711_215825	NW_004515956.1	Scaffold498	215825	CC	AA	1946953796
SNP_P4_131712_215864	NW_004515956.1	Scaffold498	215864	CC	TT	1946953798
SNP_P4_131713_215878	NW_004515956.1	Scaffold498	215878	AA	GG	1946953800
SNP_P4_131714_215903	NW_004515956.1	Scaffold498	215903	CC	GG	1946953802
SNP_P4_131715_216067	NW_004515956.1	Scaffold498	216067	CC	AA	1946953804
SNP_P4_131716_216171	NW_004515956.1	Scaffold498	216171	AA	GG	1946953806
SNP_P4_131717_216210	NW_004515956.1	Scaffold498	216210	CC	TT	1946953808
SNP_P4_131718_216254	NW_004515956.1	Scaffold498	216254	TT	CC	1946953810
SNP_P4_131719_216372	NW_004515956.1	Scaffold498	216372	TT	AA	1946953812
SNP_P4_131720_216375	NW_004515956.1	Scaffold498	216375	GG	AA	1946953814
SNP_P4_131721_216460	NW_004515956.1	Scaffold498	216460	CC	TT	1946953816
SNP_P4_131722_1199	NW_004515958.1	Scaffold501	1199	CC	TT	1946953818
SNP_P4_131723_1581	NW_004515958.1	Scaffold501	1581	AA	TT	1946953820
SNP_P4_131724_1772	NW_004515958.1	Scaffold501	1772	CC	AA	1946953822
SNP_P4_131725_9279	NW_004515958.1	Scaffold501	9279	AA	CC	1946953824
SNP_P4_131726_9335	NW_004515958.1	Scaffold501	9335	AA	CC	1946953826
SNP_P4_131727_9336	NW_004515958.1	Scaffold501	9336	AA	CC	1946953828
SNP_P4_131728_9337	NW_004515958.1	Scaffold501	9337	AA	TT	1946953830
SNP_P4_131729_11018	NW_004515958.1	Scaffold501	11018	AA	GG	1946953832
SNP_P4_131730_11045	NW_004515958.1	Scaffold501	11045	GG	CC	1946953834
SNP_P4_131731_11050	NW_004515958.1	Scaffold501	11050	AA	CC	1946953836
SNP_P4_131732_11055	NW_004515958.1	Scaffold501	11055	TT	GG	1946953838
SNP_P4_131733_11159	NW_004515958.1	Scaffold501	11159	CC	TT	1946953840
SNP_P4_131734_11259	NW_004515958.1	Scaffold501	11259	CC	TT	1946953842
SNP_P4_131735_11395	NW_004515958.1	Scaffold501	11395	GG	AA	1946953844
SNP_P4_131736_11497	NW_004515958.1	Scaffold501	11497	AA	CC	1946953846
SNP_P4_131737_11584	NW_004515958.1	Scaffold501	11584	AA	GG	1946953848
SNP_P4_131738_12976	NW_004515958.1	Scaffold501	12976	TT	AA	1946953850
SNP_P4_131739_13814	NW_004515958.1	Scaffold501	13814	TT	CC	1946953852
SNP_P4_131740_14003	NW_004515958.1	Scaffold501	14003	GG	CC	1946953854
SNP_P4_131741_14031	NW_004515958.1	Scaffold501	14031	TT	CC	1946953856
SNP_P4_131742_14104	NW_004515958.1	Scaffold501	14104	AA	TT	1946953858
SNP_P4_131743_14141	NW_004515958.1	Scaffold501	14141	GG	AA	1946953860

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_131744_14151	NW_004515958.1	Scaffold501	14151	GG	AA	1946953862
SNP_P4_131745_14191	NW_004515958.1	Scaffold501	14191	AA	GG	1946953864
SNP_P4_131746_14398	NW_004515958.1	Scaffold501	14398	AA	CC	1946953866
SNP_P4_131747_60881	NW_004515958.1	Scaffold501	60881	CC	TT	1946953868
SNP_P4_131748_78463	NW_004515958.1	Scaffold501	78463	CC	GG	1946953870
SNP_P4_131749_78476	NW_004515958.1	Scaffold501	78476	AA	GG	1946953872
SNP_P4_131751_87760	NW_004515958.1	Scaffold501	87760	TT	CC	1946953874
SNP_P4_131752_88323	NW_004515958.1	Scaffold501	88323	TT	AA	1946953876
SNP_P4_131753_88949	NW_004515958.1	Scaffold501	88949	AA	CC	1946953878
SNP_P4_131754_89042	NW_004515958.1	Scaffold501	89042	AA	GG	1946953880
SNP_P4_131755_89124	NW_004515958.1	Scaffold501	89124	TT	GG	1946953882
SNP_P4_131756_89194	NW_004515958.1	Scaffold501	89194	TT	AA	1946953884
SNP_P4_131757_89213	NW_004515958.1	Scaffold501	89213	AA	CC	1946953886
SNP_P4_131758_89233	NW_004515958.1	Scaffold501	89233	GG	TT	1946953888
SNP_P4_131759_89244	NW_004515958.1	Scaffold501	89244	TT	AA	1946953890
SNP_P4_131760_89296	NW_004515958.1	Scaffold501	89296	TT	GG	1946953892
SNP_P4_131761_89313	NW_004515958.1	Scaffold501	89313	TT	GG	1946953894
SNP_P4_131762_89405	NW_004515958.1	Scaffold501	89405	TT	CC	1946953896
SNP_P4_131763_89432	NW_004515958.1	Scaffold501	89432	CC	AA	1946953898
SNP_P4_131764_89455	NW_004515958.1	Scaffold501	89455	GG	AA	1946953900
SNP_P4_131765_89495	NW_004515958.1	Scaffold501	89495	GG	TT	1946953902
SNP_P4_131766_89525	NW_004515958.1	Scaffold501	89525	AA	GG	1946953904
SNP_P4_131767_89604	NW_004515958.1	Scaffold501	89604	CC	AA	1946953906
SNP_P4_131768_89658	NW_004515958.1	Scaffold501	89658	AA	TT	1946953908
SNP_P4_131769_89694	NW_004515958.1	Scaffold501	89694	AA	GG	1946953910
SNP_P4_131770_89724	NW_004515958.1	Scaffold501	89724	TT	CC	1946953912
SNP_P4_131771_89818	NW_004515958.1	Scaffold501	89818	CC	AA	1946953914
SNP_P4_131772_89925	NW_004515958.1	Scaffold501	89925	AA	GG	1946953916
SNP_P4_131773_89933	NW_004515958.1	Scaffold501	89933	AA	TT	1946953918
SNP_P4_131774_89999	NW_004515958.1	Scaffold501	89999	AA	TT	1946953920
SNP_P4_131775_90002	NW_004515958.1	Scaffold501	90002	GG	AA	1946953922
SNP_P4_131776_90052	NW_004515958.1	Scaffold501	90052	CC	TT	1946953924
SNP_P4_131777_90061	NW_004515958.1	Scaffold501	90061	AA	TT	1946953926
SNP_P4_131778_90080	NW_004515958.1	Scaffold501	90080	AA	GG	1946953928
SNP_P4_131779_90097	NW_004515958.1	Scaffold501	90097	TT	GG	1946953930
SNP_P4_131780_90110	NW_004515958.1	Scaffold501	90110	AA	CC	1946953932
SNP_P4_131781_90213	NW_004515958.1	Scaffold501	90213	TT	AA	1946953934
SNP_P4_131782_94083	NW_004515958.1	Scaffold501	94083	CC	TT	1946953936
SNP_P4_131783_94176	NW_004515958.1	Scaffold501	94176	TT	GG	1946953938
SNP_P4_131784_94220	NW_004515958.1	Scaffold501	94220	TT	AA	1946953940
SNP_P4_131785_94321	NW_004515958.1	Scaffold501	94321	TT	CC	1946953942
SNP_P4_131786_96732	NW_004515958.1	Scaffold501	96732	AA	GG	1946953944

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_131788_96840	NW_004515958.1	Scaffold501	96840	CC	TT	1946953948
SNP_P4_131789_96841	NW_004515958.1	Scaffold501	96841	AA	GG	1946953950
SNP_P4_131790_96842	NW_004515958.1	Scaffold501	96842	AA	TT	1946953951
SNP_P4_131791_96844	NW_004515958.1	Scaffold501	96844	CC	TT	1946953953
SNP_P4_131792_96902	NW_004515958.1	Scaffold501	96902	CC	GG	1946953955
SNP_P4_131793_97577	NW_004515958.1	Scaffold501	97577	CC	AA	1946953957
SNP_P4_131794_98511	NW_004515958.1	Scaffold501	98511	CC	AA	1946953959
SNP_P4_131795_103448	NW_004515958.1	Scaffold501	103448	CC	GG	1946953961
SNP_P4_131796_103567	NW_004515958.1	Scaffold501	103567	AA	CC	1946953963
SNP_P4_131797_103872	NW_004515958.1	Scaffold501	103872	CC	GG	1946953965
SNP_P4_131798_104067	NW_004515958.1	Scaffold501	104067	GG	AA	1946953967
SNP_P4_131799_104095	NW_004515958.1	Scaffold501	104095	CC	AA	1946953969
SNP_P4_131800_104107	NW_004515958.1	Scaffold501	104107	TT	GG	1946953971
SNP_P4_131801_104243	NW_004515958.1	Scaffold501	104243	CC	GG	1946953973
SNP_P4_131802_104300	NW_004515958.1	Scaffold501	104300	TT	CC	1946953975
SNP_P4_131803_104306	NW_004515958.1	Scaffold501	104306	TT	GG	1946953977
SNP_P4_131804_104332	NW_004515958.1	Scaffold501	104332	CC	AA	1946953979
SNP_P4_131805_104386	NW_004515958.1	Scaffold501	104386	TT	CC	1946953981
SNP_P4_131806_104561	NW_004515958.1	Scaffold501	104561	CC	TT	1946953983
SNP_P4_131807_106665	NW_004515958.1	Scaffold501	106665	TT	AA	1946953985
SNP_P4_131808_108518	NW_004515958.1	Scaffold501	108518	GG	TT	1946953988
SNP_P4_131809_108601	NW_004515958.1	Scaffold501	108601	AA	GG	1946953990
SNP_P4_131810_108763	NW_004515958.1	Scaffold501	108763	AA	TT	1946953992
SNP_P4_131811_110370	NW_004515958.1	Scaffold501	110370	CC	TT	1946953994
SNP_P4_131812_110415	NW_004515958.1	Scaffold501	110415	AA	GG	1946953996
SNP_P4_131813_115787	NW_004515958.1	Scaffold501	115787	GG	AA	1946953997
SNP_P4_131814_115845	NW_004515958.1	Scaffold501	115845	AA	TT	1946953999
SNP_P4_131815_116263	NW_004515958.1	Scaffold501	116263	AA	GG	1946954002
SNP_P4_131816_116532	NW_004515958.1	Scaffold501	116532	TT	GG	1946954004
SNP_P4_131817_116535	NW_004515958.1	Scaffold501	116535	TT	CC	1946954006
SNP_P4_131818_116548	NW_004515958.1	Scaffold501	116548	CC	TT	1946954008
SNP_P4_131819_117552	NW_004515958.1	Scaffold501	117552	CC	TT	1946954010
SNP_P4_131820_117565	NW_004515958.1	Scaffold501	117565	AA	TT	1946954012
SNP_P4_131821_117571	NW_004515958.1	Scaffold501	117571	CC	TT	1946954014
SNP_P4_131822_117613	NW_004515958.1	Scaffold501	117613	CC	AA	1946954016
SNP_P4_131823_117655	NW_004515958.1	Scaffold501	117655	CC	AA	1946954019
SNP_P4_131824_117668	NW_004515958.1	Scaffold501	117668	CC	AA	1946954021
SNP_P4_131825_117686	NW_004515958.1	Scaffold501	117686	CC	TT	1946954023
SNP_P4_131826_117702	NW_004515958.1	Scaffold501	117702	CC	TT	1946954025
SNP_P4_131827_117729	NW_004515958.1	Scaffold501	117729	TT	CC	1946954027
SNP_P4_131828_117873	NW_004515958.1	Scaffold501	117873	AA	GG	1946954029

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_131831_1238	NW_004515959.1	Scaffold505	1238	TT	AA	1946954033
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SNP_P4_131833_1360	NW_004515959.1	Scaffold505	1360	CC	AA	1946954037
SNP_P4_131834_2115	NW_004515959.1	Scaffold505	2115	TT	GG	1946954039
SNP_P4_131835_2596	NW_004515959.1	Scaffold505	2596	AA	CC	1946954041
SNP_P4_131836_2642	NW_004515959.1	Scaffold505	2642	CC	GG	1946954043
SNP_P4_131837_2649	NW_004515959.1	Scaffold505	2649	TT	AA	1946954045
SNP_P4_131838_2824	NW_004515959.1	Scaffold505	2824	AA	GG	1946954047
SNP_P4_131839_2875	NW_004515959.1	Scaffold505	2875	AA	CC	1946954049
SNP_P4_131840_2880	NW_004515959.1	Scaffold505	2880	GG	TT	1946954052
SNP_P4_131841_3047	NW_004515959.1	Scaffold505	3047	GG	TT	1946954054
SNP_P4_131842_18989	NW_004515959.1	Scaffold505	18989	CC	TT	1946954056
SNP_P4_131843_18996	NW_004515959.1	Scaffold505	18996	TT	GG	1946954058
SNP_P4_131844_19008	NW_004515959.1	Scaffold505	19008	AA	GG	1946954060
SNP_P4_131845_19349	NW_004515959.1	Scaffold505	19349	AA	GG	1946954062
SNP_P4_131846_19357	NW_004515959.1	Scaffold505	19357	TT	AA	1946954064
SNP_P4_131847_19405	NW_004515959.1	Scaffold505	19405	CC	TT	1946954066
SNP_P4_131848_19414	NW_004515959.1	Scaffold505	19414	CC	TT	1946954068
SNP_P4_131849_20867	NW_004515959.1	Scaffold505	20867	GG	TT	1946954070
SNP_P4_131850_20922	NW_004515959.1	Scaffold505	20922	AA	GG	1946954072
SNP_P4_131851_27572	NW_004515959.1	Scaffold505	27572	AA	TT	1946954074
SNP_P4_131852_27592	NW_004515959.1	Scaffold505	27592	GG	AA	1946954076
SNP_P4_131853_27992	NW_004515959.1	Scaffold505	27992	AA	GG	1946954078
SNP_P4_131854_28004	NW_004515959.1	Scaffold505	28004	AA	GG	1946954080
SNP_P4_131855_29540	NW_004515959.1	Scaffold505	29540	AA	TT	1946954081
SNP_P4_131856_29543	NW_004515959.1	Scaffold505	29543	GG	CC	1946954083
SNP_P4_131857_29546	NW_004515959.1	Scaffold505	29546	AA	GG	1946954085
SNP_P4_131858_29556	NW_004515959.1	Scaffold505	29556	AA	TT	1946954087
SNP_P4_131859_29810	NW_004515959.1	Scaffold505	29810	AA	GG	1946954089
SNP_P4_131860_40623	NW_004515959.1	Scaffold505	40623	CC	TT	1946954091
SNP_P4_131861_45269	NW_004515959.1	Scaffold505	45269	TT	GG	1946954093
SNP_P4_131862_48219	NW_004515959.1	Scaffold505	48219	TT	CC	1946954095
SNP_P4_131864_929	NW_004515960.1	Scaffold506	929	TT	CC	1946954097
SNP_P4_131865_1424	NW_004515960.1	Scaffold506	1424	TT	AA	1946954099
SNP_P4_131866_1450	NW_004515960.1	Scaffold506	1450	TT	CC	1946954101
SNP_P4_131867_1537	NW_004515960.1	Scaffold506	1537	AA	CC	1946954103
SNP_P4_131869_1972	NW_004515960.1	Scaffold506	1972	AA	TT	1946954105
SNP_P4_131870_6452	NW_004515960.1	Scaffold506	6452	CC	TT	1946954107
SNP_P4_131871_6534	NW_004515960.1	Scaffold506	6534	AA	GG	1946954109
SNP_P4_131872_6739	NW_004515960.1	Scaffold506	6739	CC	AA	1946954111
SNP_P4_131873_6815	NW_004515960.1	Scaffold506	6815	AA	TT	1946954113

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_131874_7957	NW_004515960.1	Scaffold506	7957	AA	GG	1946954115
SNP_P4_131875_8352	NW_004515960.1	Scaffold506	8352	TT	CC	1946954117
SNP_P4_131876_8571	NW_004515960.1	Scaffold506	8571	CC	AA	1946954119
SNP_P4_131877_8660	NW_004515960.1	Scaffold506	8660	GG	AA	1946954121
SNP_P4_131878_9290	NW_004515960.1	Scaffold506	9290	CC	TT	1946954123
SNP_P4_131879_9897	NW_004515960.1	Scaffold506	9897	GG	AA	1946954125
SNP_P4_131880_17676	NW_004515960.1	Scaffold506	17676	TT	CC	1946954127
SNP_P4_131881_17752	NW_004515960.1	Scaffold506	17752	TT	CC	1946954129
SNP_P4_131882_17945	NW_004515960.1	Scaffold506	17945	TT	AA	1946954131
SNP_P4_131884_18397	NW_004515960.1	Scaffold506	18397	AA	GG	1946954132
SNP_P4_131885_18820	NW_004515960.1	Scaffold506	18820	GG	TT	1946954135
SNP_P4_131887_19149	NW_004515960.1	Scaffold506	19149	GG	AA	1946954137
SNP_P4_131888_19326	NW_004515960.1	Scaffold506	19326	CC	TT	1946954139
SNP_P4_131889_20191	NW_004515960.1	Scaffold506	20191	TT	CC	1946954141
SNP_P4_131890_24641	NW_004515960.1	Scaffold506	24641	TT	AA	1946954143
SNP_P4_131891_25599	NW_004515960.1	Scaffold506	25599	GG	CC	1946954145
SNP_P4_131892_26658	NW_004515960.1	Scaffold506	26658	GG	AA	1946954147
SNP_P4_131893_26682	NW_004515960.1	Scaffold506	26682	TT	CC	1946954149
SNP_P4_131894_26983	NW_004515960.1	Scaffold506	26983	TT	CC	1946954151
SNP_P4_131895_27130	NW_004515960.1	Scaffold506	27130	TT	CC	1946954153
SNP_P4_131896_28363	NW_004515960.1	Scaffold506	28363	TT	CC	1946954155
SNP_P4_131897_28611	NW_004515960.1	Scaffold506	28611	CC	TT	1946954157
SNP_P4_131898_29546	NW_004515960.1	Scaffold506	29546	CC	TT	1946954159
SNP_P4_131899_30225	NW_004515960.1	Scaffold506	30225	CC	GG	1946954161
SNP_P4_131900_30332	NW_004515960.1	Scaffold506	30332	AA	GG	1946954163
SNP_P4_131901_31189	NW_004515960.1	Scaffold506	31189	GG	AA	1946954165
SNP_P4_131902_31836	NW_004515960.1	Scaffold506	31836	GG	AA	1946954167
SNP_P4_131903_33667	NW_004515960.1	Scaffold506	33667	GG	AA	1946954169
SNP_P4_131904_34451	NW_004515960.1	Scaffold506	34451	AA	CC	1946954171
SNP_P4_131905_35371	NW_004515960.1	Scaffold506	35371	TT	AA	1946954173
SNP_P4_131906_35372	NW_004515960.1	Scaffold506	35372	AA	CC	1946954175
SNP_P4_131907_36335	NW_004515960.1	Scaffold506	36335	AA	GG	1946954177
SNP_P4_131908_36875	NW_004515960.1	Scaffold506	36875	TT	CC	1946954179
SNP_P4_131909_36886	NW_004515960.1	Scaffold506	36886	TT	AA	1946954180
SNP_P4_131910_37335	NW_004515960.1	Scaffold506	37335	CC	TT	1946954182
SNP_P4_131911_38594	NW_004515960.1	Scaffold506	38594	GG	AA	1946954184
SNP_P4_131913_39702	NW_004515960.1	Scaffold506	39702	CC	AA	1946954186
SNP_P4_131914_39764	NW_004515960.1	Scaffold506	39764	CC	GG	1946954188
SNP_P4_131915_2338	NW_004515961.1	Scaffold507	2338	CC	AA	1946954190
SNP_P4_131916_11526	NW_004515961.1	Scaffold507	11526	AA	TT	1946954193
SNP_P4_131917_11810	NW_004515961.1	Scaffold507	11810	GG	TT	1946954195
SNP_P4_131918_11811	NW_004515961.1	Scaffold507	11811	TT	GG	1946954197

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_131919_12114	NW_004515961.1	Scaffold507	12114	GG	AA	1946954199
SNP_P4_131920_12228	NW_004515961.1	Scaffold507	12228	CC	GG	1946954201
SNP_P4_131921_12273	NW_004515961.1	Scaffold507	12273	GG	CC	1946954203
SNP_P4_131922_12569	NW_004515961.1	Scaffold507	12569	CC	TT	1946954205
SNP_P4_131923_19155	NW_004515961.1	Scaffold507	19155	GG	TT	1946954207
SNP_P4_131924_13780	NW_004515962.1	Scaffold509	13780	TT	AA	1946954209
SNP_P4_131925_15225	NW_004515962.1	Scaffold509	15225	GG	AA	1946954211
SNP_P4_131926_16434	NW_004515962.1	Scaffold509	16434	AA	GG	1946954213
SNP_P4_131927_16466	NW_004515962.1	Scaffold509	16466	AA	CC	1946954215
SNP_P4_131928_42186	NW_004515962.1	Scaffold509	42186	TT	CC	1946954217
SNP_P4_131929_50733	NW_004515962.1	Scaffold509	50733	TT	CC	1946954219
SNP_P4_131930_51248	NW_004515962.1	Scaffold509	51248	AA	TT	1946954220
SNP_P4_131931_60984	NW_004515962.1	Scaffold509	60984	TT	CC	1946954223
SNP_P4_131932_75725	NW_004515962.1	Scaffold509	75725	AA	GG	1946954225
SNP_P4_131933_78156	NW_004515962.1	Scaffold509	78156	CC	TT	1946954227
SNP_P4_131934_78411	NW_004515962.1	Scaffold509	78411	GG	AA	1946954229
SNP_P4_131935_78433	NW_004515962.1	Scaffold509	78433	TT	CC	1946954231
SNP_P4_131936_78478	NW_004515962.1	Scaffold509	78478	GG	TT	1946954233
SNP_P4_131937_95306	NW_004515962.1	Scaffold509	95306	TT	CC	1946954235
SNP_P4_131938_122690	NW_004515962.1	Scaffold509	122690	TT	CC	1946954237
SNP_P4_131939_122769	NW_004515962.1	Scaffold509	122769	GG	AA	1946954239
SNP_P4_131940_123161	NW_004515962.1	Scaffold509	123161	TT	GG	1946954241
SNP_P4_131941_128885	NW_004515962.1	Scaffold509	128885	CC	TT	1946954243
SNP_P4_131942_130357	NW_004515962.1	Scaffold509	130357	GG	AA	1946954245
SNP_P4_131943_132490	NW_004515962.1	Scaffold509	132490	CC	AA	1946954247
SNP_P4_131944_132492	NW_004515962.1	Scaffold509	132492	TT	AA	1946954249
SNP_P4_131945_132509	NW_004515962.1	Scaffold509	132509	GG	CC	1946954251
SNP_P4_131946_132514	NW_004515962.1	Scaffold509	132514	AA	GG	1946954253
SNP_P4_131947_132518	NW_004515962.1	Scaffold509	132518	CC	GG	1946954255
SNP_P4_131948_132520	NW_004515962.1	Scaffold509	132520	GG	AA	1946954257
SNP_P4_131949_132530	NW_004515962.1	Scaffold509	132530	GG	CC	1946954259
SNP_P4_131950_132533	NW_004515962.1	Scaffold509	132533	TT	CC	1946954262
SNP_P4_131951_132541	NW_004515962.1	Scaffold509	132541	TT	AA	1946954264
SNP_P4_131952_157646	NW_004515962.1	Scaffold509	157646	AA	GG	1946954266
SNP_P4_131953_157967	NW_004515962.1	Scaffold509	157967	AA	GG	1946954268
SNP_P4_131954_158083	NW_004515962.1	Scaffold509	158083	TT	AA	1946954270
SNP_P4_131955_158088	NW_004515962.1	Scaffold509	158088	GG	TT	1946954272
SNP_P4_131956_158094	NW_004515962.1	Scaffold509	158094	TT	CC	1946954274
SNP_P4_131957_170444	NW_004515962.1	Scaffold509	170444	GG	AA	1946954277
SNP_P4_131958_172648	NW_004515962.1	Scaffold509	172648	GG	AA	1946954279
SNP_P4_131959_172651	NW_004515962.1	Scaffold509	172651	CC	TT	1946954281
SNP_P4_131961_172921	NW_004515962.1	Scaffold509	172921	AA	GG	1946954283

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_131963_175416	NW_004515962.1	Scaffold509	175416	AA	GG	1946954287
SNP_P4_131964_175431	NW_004515962.1	Scaffold509	175431	TT	CC	1946954289
SNP_P4_131965_176936	NW_004515962.1	Scaffold509	176936	AA	GG	1946954291
SNP_P4_131966_179515	NW_004515962.1	Scaffold509	179515	GG	CC	1946954293
SNP_P4_131967_179689	NW_004515962.1	Scaffold509	179689	CC	TT	1946954295
SNP_P4_131968_179734	NW_004515962.1	Scaffold509	179734	TT	CC	1946954297
SNP_P4_131969_179886	NW_004515962.1	Scaffold509	179886	CC	AA	1946954299
SNP_P4_131970_179924	NW_004515962.1	Scaffold509	179924	CC	TT	1946954300
SNP_P4_131971_179945	NW_004515962.1	Scaffold509	179945	TT	CC	1946954302
SNP_P4_131972_180007	NW_004515962.1	Scaffold509	180007	AA	CC	1946954304
SNP_P4_131973_180085	NW_004515962.1	Scaffold509	180085	CC	GG	1946954306
SNP_P4_131974_180098	NW_004515962.1	Scaffold509	180098	AA	CC	1946954308
SNP_P4_131975_181136	NW_004515962.1	Scaffold509	181136	AA	CC	1946954310
SNP_P4_131976_181150	NW_004515962.1	Scaffold509	181150	AA	GG	1946954312
SNP_P4_131977_181779	NW_004515962.1	Scaffold509	181779	TT	AA	1946954315
SNP_P4_131978_188832	NW_004515962.1	Scaffold509	188832	TT	AA	1946954317
SNP_P4_131979_189040	NW_004515962.1	Scaffold509	189040	AA	GG	1946954319
SNP_P4_131980_196589	NW_004515962.1	Scaffold509	196589	TT	CC	1946954321
SNP_P4_131981_196592	NW_004515962.1	Scaffold509	196592	AA	TT	1946954323
SNP_P4_131982_196595	NW_004515962.1	Scaffold509	196595	CC	AA	1946954325
SNP_P4_131983_209205	NW_004515962.1	Scaffold509	209205	AA	GG	1946954326
SNP_P4_131984_209253	NW_004515962.1	Scaffold509	209253	GG	AA	1946954328
SNP_P4_131985_212878	NW_004515962.1	Scaffold509	212878	CC	TT	1946954330
SNP_P4_131986_215689	NW_004515962.1	Scaffold509	215689	TT	AA	1946954332
SNP_P4_131987_215844	NW_004515962.1	Scaffold509	215844	CC	TT	1946954335
SNP_P4_131988_216357	NW_004515962.1	Scaffold509	216357	TT	CC	1946954337
SNP_P4_131989_218752	NW_004515962.1	Scaffold509	218752	AA	CC	1946954339
SNP_P4_131990_218756	NW_004515962.1	Scaffold509	218756	CC	TT	1946954341
SNP_P4_131991_218779	NW_004515962.1	Scaffold509	218779	CC	GG	1946954343
SNP_P4_131992_218780	NW_004515962.1	Scaffold509	218780	TT	CC	1946954345
SNP_P4_131993_218810	NW_004515962.1	Scaffold509	218810	TT	GG	1946954346
SNP_P4_131994_218813	NW_004515962.1	Scaffold509	218813	TT	CC	1946954348
SNP_P4_131995_218819	NW_004515962.1	Scaffold509	218819	TT	GG	1946954350
SNP_P4_131996_218844	NW_004515962.1	Scaffold509	218844	GG	AA	1946954352
SNP_P4_131997_218849	NW_004515962.1	Scaffold509	218849	AA	TT	1946954354
SNP_P4_131998_218855	NW_004515962.1	Scaffold509	218855	TT	AA	1946954356
SNP_P4_131999_218906	NW_004515962.1	Scaffold509	218906	TT	GG	1946954358
SNP_P4_132000_218910	NW_004515962.1	Scaffold509	218910	TT	GG	1946954360
SNP_P4_132001_218924	NW_004515962.1	Scaffold509	218924	CC	TT	1946954362
SNP_P4_132002_218925	NW_004515962.1	Scaffold509	218925	GG	TT	1946954364
SNP_P4_132003_218929	NW_004515962.1	Scaffold509	218929	TT	GG	1946954366

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_132006_225200	NW_004515962.1	Scaffold509	225200	AA	GG	1946954370
SNP_P4_132007_225203	NW_004515962.1	Scaffold509	225203	AA	TT	1946954372
SNP_P4_132008_225204	NW_004515962.1	Scaffold509	225204	AA	GG	1946954374
SNP_P4_132009_225206	NW_004515962.1	Scaffold509	225206	CC	GG	1946954375
SNP_P4_132010_225215	NW_004515962.1	Scaffold509	225215	CC	TT	1946954377
SNP_P4_132011_225219	NW_004515962.1	Scaffold509	225219	TT	CC	1946954379
SNP_P4_132012_225225	NW_004515962.1	Scaffold509	225225	AA	GG	1946954381
SNP_P4_132013_225518	NW_004515962.1	Scaffold509	225518	CC	TT	1946954383
SNP_P4_132014_228425	NW_004515962.1	Scaffold509	228425	AA	GG	1946954385
SNP_P4_132015_228520	NW_004515962.1	Scaffold509	228520	TT	AA	1946954387
SNP_P4_132016_228797	NW_004515962.1	Scaffold509	228797	AA	GG	1946954389
SNP_P4_132017_228834	NW_004515962.1	Scaffold509	228834	AA	CC	1946954391
SNP_P4_132018_228883	NW_004515962.1	Scaffold509	228883	TT	CC	1946954393
SNP_P4_132019_228889	NW_004515962.1	Scaffold509	228889	AA	GG	1946954395
SNP_P4_132020_228897	NW_004515962.1	Scaffold509	228897	CC	TT	1946954397
SNP_P4_132021_228913	NW_004515962.1	Scaffold509	228913	GG	CC	1946954399
SNP_P4_132022_228923	NW_004515962.1	Scaffold509	228923	GG	AA	1946954401
SNP_P4_132023_240125	NW_004515962.1	Scaffold509	240125	TT	GG	1946954403
SNP_P4_132024_240139	NW_004515962.1	Scaffold509	240139	TT	GG	1946954405
SNP_P4_132025_240178	NW_004515962.1	Scaffold509	240178	AA	GG	1946954407
SNP_P4_132026_244657	NW_004515962.1	Scaffold509	244657	GG	TT	1946954409
SNP_P4_132027_250111	NW_004515962.1	Scaffold509	250111	CC	TT	1946954410
SNP_P4_132028_251277	NW_004515962.1	Scaffold509	251277	AA	TT	1946954412
SNP_P4_132029_266410	NW_004515962.1	Scaffold509	266410	TT	AA	1946954414
SNP_P4_132030_266429	NW_004515962.1	Scaffold509	266429	TT	AA	1946954416
SNP_P4_132031_266475	NW_004515962.1	Scaffold509	266475	GG	CC	1946954418
SNP_P4_132032_266484	NW_004515962.1	Scaffold509	266484	GG	TT	1946954420
SNP_P4_132033_266605	NW_004515962.1	Scaffold509	266605	AA	GG	1946954422
SNP_P4_132034_266613	NW_004515962.1	Scaffold509	266613	AA	GG	1946954423
SNP_P4_132035_266614	NW_004515962.1	Scaffold509	266614	TT	GG	1946954425
SNP_P4_132036_266717	NW_004515962.1	Scaffold509	266717	TT	CC	1946954427
SNP_P4_132037_266778	NW_004515962.1	Scaffold509	266778	GG	TT	1946954429
SNP_P4_132039_266885	NW_004515962.1	Scaffold509	266885	CC	AA	1946954431
SNP_P4_132040_273203	NW_004515962.1	Scaffold509	273203	TT	CC	1946954433
SNP_P4_132041_273487	NW_004515962.1	Scaffold509	273487	AA	GG	1946954435
SNP_P4_132042_286543	NW_004515962.1	Scaffold509	286543	CC	TT	1946954437
SNP_P4_132043_286560	NW_004515962.1	Scaffold509	286560	GG	AA	1946954439
SNP_P4_132044_286895	NW_004515962.1	Scaffold509	286895	TT	GG	1946954441
SNP_P4_132045_290251	NW_004515962.1	Scaffold509	290251	TT	CC	1946954443
SNP_P4_132046_291227	NW_004515962.1	Scaffold509	291227	CC	TT	1946954445
SNP_P4_132048_322214	NW_004515962.1	Scaffold509	322214	GG	TT	1946954447

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_132050_322330	NW_004515962.1	Scaffold509	322330	AA	TT	1946954451
SNP_P4_132051_322332	NW_004515962.1	Scaffold509	322332	GG	CC	1946954453
SNP_P4_132052_322726	NW_004515962.1	Scaffold509	322726	CC	TT	1946954455
SNP_P4_132054_2140	NW_004515963.1	Scaffold510	2140	TT	CC	1946954457
SNP_P4_132055_2526	NW_004515963.1	Scaffold510	2526	TT	CC	1946954459
SNP_P4_132056_9242	NW_004515963.1	Scaffold510	9242	AA	GG	1946954461
SNP_P4_132057_9255	NW_004515963.1	Scaffold510	9255	CC	TT	1946954463
SNP_P4_132059_14361	NW_004515963.1	Scaffold510	14361	AA	GG	1946954465
SNP_P4_132060_14403	NW_004515963.1	Scaffold510	14403	GG	TT	1946954467
SNP_P4_132061_15472	NW_004515963.1	Scaffold510	15472	AA	GG	1946954469
SNP_P4_132062_17912	NW_004515963.1	Scaffold510	17912	TT	CC	1946954471
SNP_P4_132063_17922	NW_004515963.1	Scaffold510	17922	CC	TT	1946954473
SNP_P4_132064_17923	NW_004515963.1	Scaffold510	17923	TT	CC	1946954474
SNP_P4_132065_24282	NW_004515963.1	Scaffold510	24282	GG	TT	1946954476
SNP_P4_132066_24633	NW_004515963.1	Scaffold510	24633	TT	CC	1946954478
SNP_P4_132067_24706	NW_004515963.1	Scaffold510	24706	AA	GG	1946954480
SNP_P4_132068_25091	NW_004515963.1	Scaffold510	25091	TT	CC	1946954482
SNP_P4_132069_25149	NW_004515963.1	Scaffold510	25149	CC	TT	1946954484
SNP_P4_132070_25590	NW_004515963.1	Scaffold510	25590	GG	AA	1946954486
SNP_P4_132071_25623	NW_004515963.1	Scaffold510	25623	AA	CC	1946954488
SNP_P4_132072_30278	NW_004515963.1	Scaffold510	30278	TT	GG	1946954490
SNP_P4_132073_30281	NW_004515963.1	Scaffold510	30281	AA	GG	1946954492
SNP_P4_132074_30286	NW_004515963.1	Scaffold510	30286	GG	AA	1946954494
SNP_P4_132075_39945	NW_004515963.1	Scaffold510	39945	CC	TT	1946954496
SNP_P4_132076_40371	NW_004515963.1	Scaffold510	40371	AA	GG	1946954497
SNP_P4_132077_40379	NW_004515963.1	Scaffold510	40379	GG	TT	1946954499
SNP_P4_132078_40946	NW_004515963.1	Scaffold510	40946	AA	TT	1946954501
SNP_P4_132079_47136	NW_004515963.1	Scaffold510	47136	AA	TT	1946954503
SNP_P4_132080_47162	NW_004515963.1	Scaffold510	47162	TT	GG	1946954505
SNP_P4_132081_47179	NW_004515963.1	Scaffold510	47179	AA	TT	1946954507
SNP_P4_132082_47499	NW_004515963.1	Scaffold510	47499	AA	GG	1946954509
SNP_P4_132083_47989	NW_004515963.1	Scaffold510	47989	AA	TT	1946954511
SNP_P4_132084_48039	NW_004515963.1	Scaffold510	48039	TT	CC	1946954513
SNP_P4_132085_48141	NW_004515963.1	Scaffold510	48141	AA	TT	1946954515
SNP_P4_132086_48168	NW_004515963.1	Scaffold510	48168	GG	TT	1946954517
SNP_P4_132087_48216	NW_004515963.1	Scaffold510	48216	AA	GG	1946954519
SNP_P4_132088_48444	NW_004515963.1	Scaffold510	48444	AA	TT	1946954521
SNP_P4_132089_54941	NW_004515963.1	Scaffold510	54941	AA	GG	1946954523
SNP_P4_132090_54982	NW_004515963.1	Scaffold510	54982	TT	CC	1946954525
SNP_P4_132091_54996	NW_004515963.1	Scaffold510	54996	CC	TT	1946954527
SNP_P4_132092_58998	NW_004515963.1	Scaffold510	58998	TT	GG	1946954529

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_132093_59112	NW_004515963.1	Scaffold510	59112	AA	GG	1946954530
SNP_P4_132094_59163	NW_004515963.1	Scaffold510	59163	TT	CC	1946954532
SNP_P4_132095_59192	NW_004515963.1	Scaffold510	59192	CC	TT	1946954534
SNP_P4_132096_71173	NW_004515963.1	Scaffold510	71173	TT	AA	1946954536
SNP_P4_132097_71183	NW_004515963.1	Scaffold510	71183	AA	TT	1946954538
SNP_P4_132098_79322	NW_004515963.1	Scaffold510	79322	AA	GG	1946954540
SNP_P4_132099_80797	NW_004515963.1	Scaffold510	80797	CC	AA	1946954542
SNP_P4_132100_80918	NW_004515963.1	Scaffold510	80918	AA	GG	1946954544
SNP_P4_132101_81719	NW_004515963.1	Scaffold510	81719	GG	AA	1946954546
SNP_P4_132102_81748	NW_004515963.1	Scaffold510	81748	AA	CC	1946954548
SNP_P4_132103_81764	NW_004515963.1	Scaffold510	81764	CC	TT	1946954550
SNP_P4_132104_81874	NW_004515963.1	Scaffold510	81874	CC	TT	1946954552
SNP_P4_132105_81952	NW_004515963.1	Scaffold510	81952	CC	TT	1946954554
SNP_P4_132106_82056	NW_004515963.1	Scaffold510	82056	TT	GG	1946954556
SNP_P4_132107_82097	NW_004515963.1	Scaffold510	82097	GG	AA	1946954557
SNP_P4_132108_82134	NW_004515963.1	Scaffold510	82134	AA	TT	1946954559
SNP_P4_132109_82190	NW_004515963.1	Scaffold510	82190	TT	GG	1946954561
SNP_P4_132110_82263	NW_004515963.1	Scaffold510	82263	CC	GG	1946954563
SNP_P4_132111_85241	NW_004515963.1	Scaffold510	85241	GG	TT	1946954565
SNP_P4_132112_85313	NW_004515963.1	Scaffold510	85313	CC	GG	1946954567
SNP_P4_132113_85358	NW_004515963.1	Scaffold510	85358	GG	CC	1946954568
SNP_P4_132114_85392	NW_004515963.1	Scaffold510	85392	TT	AA	1946954570
SNP_P4_132115_85409	NW_004515963.1	Scaffold510	85409	GG	TT	1946954572
SNP_P4_132116_85495	NW_004515963.1	Scaffold510	85495	GG	AA	1946954574
SNP_P4_132117_85592	NW_004515963.1	Scaffold510	85592	AA	CC	1946954576
SNP_P4_132119_85654	NW_004515963.1	Scaffold510	85654	TT	GG	1946954578
SNP_P4_132120_85666	NW_004515963.1	Scaffold510	85666	CC	GG	1946954580
SNP_P4_132121_85674	NW_004515963.1	Scaffold510	85674	TT	CC	1946954582
SNP_P4_132122_85718	NW_004515963.1	Scaffold510	85718	AA	TT	1946954584
SNP_P4_132123_85789	NW_004515963.1	Scaffold510	85789	AA	CC	1946954586
SNP_P4_132124_85852	NW_004515963.1	Scaffold510	85852	TT	CC	1946954587
SNP_P4_132125_85936	NW_004515963.1	Scaffold510	85936	TT	AA	1946954589
SNP_P4_132126_85937	NW_004515963.1	Scaffold510	85937	AA	GG	1946954591
SNP_P4_132127_85958	NW_004515963.1	Scaffold510	85958	TT	CC	1946954593
SNP_P4_132128_85967	NW_004515963.1	Scaffold510	85967	GG	CC	1946954595
SNP_P4_132129_85981	NW_004515963.1	Scaffold510	85981	CC	AA	1946954596
SNP_P4_132130_85987	NW_004515963.1	Scaffold510	85987	CC	GG	1946954598
SNP_P4_132131_86002	NW_004515963.1	Scaffold510	86002	TT	GG	1946954600
SNP_P4_132132_86035	NW_004515963.1	Scaffold510	86035	CC	GG	1946954602
SNP_P4_132133_86036	NW_004515963.1	Scaffold510	86036	TT	AA	1946954604
SNP_P4_132134_86058	NW_004515963.1	Scaffold510	86058	CC	TT	1946954605
SNP_P4_132135_86059	NW_004515963.1	Scaffold510	86059	AA	GG	1946954607

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_132137_86084	NW_004515963.1	Scaffold510	86084	CC	TT	1946954611
SNP_P4_132138_86107	NW_004515963.1	Scaffold510	86107	TT	GG	1946954613
SNP_P4_132139_86113	NW_004515963.1	Scaffold510	86113	AA	TT	1946954615
SNP_P4_132140_86127	NW_004515963.1	Scaffold510	86127	GG	TT	1946954616
SNP_P4_132141_86146	NW_004515963.1	Scaffold510	86146	AA	CC	1946954618
SNP_P4_132142_86148	NW_004515963.1	Scaffold510	86148	AA	TT	1946954620
SNP_P4_132143_86203	NW_004515963.1	Scaffold510	86203	CC	AA	1946954622
SNP_P4_132144_86237	NW_004515963.1	Scaffold510	86237	GG	TT	1946954624
SNP_P4_132145_86327	NW_004515963.1	Scaffold510	86327	TT	AA	1946954626
SNP_P4_132146_86335	NW_004515963.1	Scaffold510	86335	AA	TT	1946954628
SNP_P4_132147_86371	NW_004515963.1	Scaffold510	86371	TT	GG	1946954630
SNP_P4_132148_86564	NW_004515963.1	Scaffold510	86564	CC	TT	1946954632
SNP_P4_132149_86750	NW_004515963.1	Scaffold510	86750	TT	CC	1946954634
SNP_P4_132150_86858	NW_004515963.1	Scaffold510	86858	TT	CC	1946954636
SNP_P4_132151_90793	NW_004515963.1	Scaffold510	90793	TT	GG	1946954638
SNP_P4_132152_92176	NW_004515963.1	Scaffold510	92176	TT	AA	1946954640
SNP_P4_132153_1952	NW_004515964.1	Scaffold511	1952	AA	GG	1946954642
SNP_P4_132154_1956	NW_004515964.1	Scaffold511	1956	CC	GG	1946954644
SNP_P4_132155_2207	NW_004515964.1	Scaffold511	2207	CC	AA	1946954646
SNP_P4_132156_2229	NW_004515964.1	Scaffold511	2229	GG	AA	1946954648
SNP_P4_132157_2249	NW_004515964.1	Scaffold511	2249	GG	TT	1946954650
SNP_P4_132158_2251	NW_004515964.1	Scaffold511	2251	TT	CC	1946954652
SNP_P4_132159_2293	NW_004515964.1	Scaffold511	2293	GG	AA	1946954654
SNP_P4_132160_2473	NW_004515964.1	Scaffold511	2473	AA	CC	1946954656
SNP_P4_132161_2526	NW_004515964.1	Scaffold511	2526	CC	TT	1946954658
SNP_P4_132162_3336	NW_004515964.1	Scaffold511	3336	AA	CC	1946954660
SNP_P4_132163_3358	NW_004515964.1	Scaffold511	3358	TT	CC	1946954662
SNP_P4_132164_3392	NW_004515964.1	Scaffold511	3392	TT	CC	1946954664
SNP_P4_132165_3393	NW_004515964.1	Scaffold511	3393	AA	TT	1946954665
SNP_P4_132166_3780	NW_004515964.1	Scaffold511	3780	AA	CC	1946954667
SNP_P4_132167_14367	NW_004515964.1	Scaffold511	14367	TT	GG	1946954669
SNP_P4_132168_14371	NW_004515964.1	Scaffold511	14371	GG	AA	1946954671
SNP_P4_132169_14406	NW_004515964.1	Scaffold511	14406	AA	TT	1946954673
SNP_P4_132170_14410	NW_004515964.1	Scaffold511	14410	AA	GG	1946954675
SNP_P4_132171_14417	NW_004515964.1	Scaffold511	14417	GG	AA	1946954677
SNP_P4_132172_14433	NW_004515964.1	Scaffold511	14433	AA	GG	1946954679
SNP_P4_132173_40319	NW_004515964.1	Scaffold511	40319	CC	TT	1946954681
SNP_P4_132174_40342	NW_004515964.1	Scaffold511	40342	AA	GG	1946954683
SNP_P4_132175_40439	NW_004515964.1	Scaffold511	40439	GG	AA	1946954684
SNP_P4_132176_40529	NW_004515964.1	Scaffold511	40529	AA	GG	1946954685
SNP_P4_132177_40582	NW_004515964.1	Scaffold511	40582	TT	CC	1946954686

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_132179_42738	NW_004515964.1	Scaffold511	42738	GG	CC	1946954688
SNP_P4_132180_42945	NW_004515964.1	Scaffold511	42945	AA	GG	1946954689
SNP_P4_132181_42972	NW_004515964.1	Scaffold511	42972	GG	TT	1946954690
SNP_P4_132182_43002	NW_004515964.1	Scaffold511	43002	CC	TT	1946954692
SNP_P4_132183_43029	NW_004515964.1	Scaffold511	43029	AA	GG	1946954694
SNP_P4_132184_43062	NW_004515964.1	Scaffold511	43062	AA	CC	1946954696
SNP_P4_132185_47417	NW_004515964.1	Scaffold511	47417	AA	GG	1946954698
SNP_P4_132186_48423	NW_004515964.1	Scaffold511	48423	AA	GG	1946954700
SNP_P4_132187_53638	NW_004515964.1	Scaffold511	53638	AA	TT	1946954702
SNP_P4_132188_54403	NW_004515964.1	Scaffold511	54403	TT	GG	1946954704
SNP_P4_132189_54409	NW_004515964.1	Scaffold511	54409	GG	TT	1946954706
SNP_P4_132190_55660	NW_004515964.1	Scaffold511	55660	CC	TT	1946954708
SNP_P4_132191_55674	NW_004515964.1	Scaffold511	55674	GG	AA	1946954709
SNP_P4_132192_55686	NW_004515964.1	Scaffold511	55686	GG	AA	1946954711
SNP_P4_132193_75266	NW_004515964.1	Scaffold511	75266	GG	AA	1946954713
SNP_P4_132194_75346	NW_004515964.1	Scaffold511	75346	GG	AA	1946954715
SNP_P4_132195_97205	NW_004515964.1	Scaffold511	97205	CC	TT	1946954716
SNP_P4_132196_97206	NW_004515964.1	Scaffold511	97206	AA	GG	1946954718
SNP_P4_132197_97303	NW_004515964.1	Scaffold511	97303	AA	TT	1946954720
SNP_P4_132198_97314	NW_004515964.1	Scaffold511	97314	CC	TT	1946954722
SNP_P4_132199_97513	NW_004515964.1	Scaffold511	97513	AA	GG	1946954723
SNP_P4_132200_97530	NW_004515964.1	Scaffold511	97530	GG	AA	1946954725
SNP_P4_132201_98130	NW_004515964.1	Scaffold511	98130	TT	GG	1946954727
SNP_P4_132202_98439	NW_004515964.1	Scaffold511	98439	CC	TT	1946954729
SNP_P4_132203_98462	NW_004515964.1	Scaffold511	98462	AA	CC	1946954731
SNP_P4_132205_102926	NW_004515964.1	Scaffold511	102926	AA	GG	1946954733
SNP_P4_132206_103294	NW_004515964.1	Scaffold511	103294	GG	AA	1946954735
SNP_P4_132207_106495	NW_004515964.1	Scaffold511	106495	GG	AA	1946954737
SNP_P4_132208_125721	NW_004515964.1	Scaffold511	125721	CC	GG	1946954739
SNP_P4_132209_128222	NW_004515964.1	Scaffold511	128222	GG	AA	1946954740
SNP_P4_132210_129715	NW_004515964.1	Scaffold511	129715	TT	CC	1946954742
SNP_P4_132211_134977	NW_004515964.1	Scaffold511	134977	GG	AA	1946954744
SNP_P4_132212_147531	NW_004515964.1	Scaffold511	147531	CC	AA	1946954746
SNP_P4_132213_148194	NW_004515964.1	Scaffold511	148194	CC	GG	1946954748
SNP_P4_132214_148217	NW_004515964.1	Scaffold511	148217	AA	CC	1946954750
SNP_P4_132215_148233	NW_004515964.1	Scaffold511	148233	CC	GG	1946954752
SNP_P4_132216_148239	NW_004515964.1	Scaffold511	148239	TT	CC	1946954754
SNP_P4_132217_148245	NW_004515964.1	Scaffold511	148245	TT	AA	1946954756
SNP_P4_132218_148246	NW_004515964.1	Scaffold511	148246	CC	TT	1946954758
SNP_P4_132219_148248	NW_004515964.1	Scaffold511	148248	AA	TT	1946954760
SNP_P4_132220_148278	NW_004515964.1	Scaffold511	148278	TT	CC	1946954762

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_132222_149950	NW_004515964.1	Scaffold511	149950	TT	CC	1946954766
SNP_P4_132223_152056	NW_004515964.1	Scaffold511	152056	AA	GG	1946954768
SNP_P4_132224_162091	NW_004515964.1	Scaffold511	162091	CC	TT	1946954769
SNP_P4_132225_175080	NW_004515964.1	Scaffold511	175080	CC	TT	1946954771
SNP_P4_132226_179181	NW_004515964.1	Scaffold511	179181	GG	AA	1946954773
SNP_P4_132227_179210	NW_004515964.1	Scaffold511	179210	AA	GG	1946954775
SNP_P4_132228_179213	NW_004515964.1	Scaffold511	179213	TT	AA	1946954777
SNP_P4_132229_179676	NW_004515964.1	Scaffold511	179676	AA	CC	1946954779
SNP_P4_132230_185687	NW_004515964.1	Scaffold511	185687	CC	TT	1946954781
SNP_P4_132231_186117	NW_004515964.1	Scaffold511	186117	GG	TT	1946954783
SNP_P4_132232_191001	NW_004515964.1	Scaffold511	191001	CC	TT	1946954784
SNP_P4_132233_192867	NW_004515964.1	Scaffold511	192867	TT	AA	1946954786
SNP_P4_132234_192912	NW_004515964.1	Scaffold511	192912	AA	GG	1946954788
SNP_P4_132235_192925	NW_004515964.1	Scaffold511	192925	AA	GG	1946954790
SNP_P4_132236_192951	NW_004515964.1	Scaffold511	192951	GG	AA	1946954792
SNP_P4_132237_192994	NW_004515964.1	Scaffold511	192994	TT	CC	1946954794
SNP_P4_132239_193141	NW_004515964.1	Scaffold511	193141	AA	TT	1946954796
SNP_P4_132240_193179	NW_004515964.1	Scaffold511	193179	TT	GG	1946954798
SNP_P4_132241_193242	NW_004515964.1	Scaffold511	193242	CC	TT	1946954800
SNP_P4_132242_193286	NW_004515964.1	Scaffold511	193286	GG	AA	1946954802
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SNP_P4_132245_193355	NW_004515964.1	Scaffold511	193355	TT	GG	1946954807
SNP_P4_132246_194369	NW_004515964.1	Scaffold511	194369	CC	TT	1946954809
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SNP_P4_132248_194423	NW_004515964.1	Scaffold511	194423	TT	CC	1946954813
SNP_P4_132249_194443	NW_004515964.1	Scaffold511	194443	AA	GG	1946954815
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SNP_P4_132251_194479	NW_004515964.1	Scaffold511	194479	TT	GG	1946954819
SNP_P4_132253_194504	NW_004515964.1	Scaffold511	194504	AA	CC	1946954821
SNP_P4_132255_194545	NW_004515964.1	Scaffold511	194545	GG	AA	1946954823
SNP_P4_132256_194598	NW_004515964.1	Scaffold511	194598	AA	CC	1946954825
SNP_P4_132258_194660	NW_004515964.1	Scaffold511	194660	TT	CC	1946954826
SNP_P4_132259_194700	NW_004515964.1	Scaffold511	194700	CC	TT	1946954828
SNP_P4_132260_194707	NW_004515964.1	Scaffold511	194707	TT	CC	1946954830
SNP_P4_132261_194830	NW_004515964.1	Scaffold511	194830	CC	TT	1946954832
SNP_P4_132262_194860	NW_004515964.1	Scaffold511	194860	GG	AA	1946954834
SNP_P4_132263_194873	NW_004515964.1	Scaffold511	194873	GG	TT	1946954836
SNP_P4_132264_194889	NW_004515964.1	Scaffold511	194889	CC	TT	1946954838
SNP_P4_132265_224513	NW_004515964.1	Scaffold511	224513	GG	TT	1946954840
SNP_P4_132266_224528	NW_004515964.1	Scaffold511	224528	TT	CC	1946954842

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_132268_224659	NW_004515964.1	Scaffold511	224659	AA	GG	1946954845
SNP_P4_132269_226177	NW_004515964.1	Scaffold511	226177	GG	AA	1946954848
SNP_P4_132270_226416	NW_004515964.1	Scaffold511	226416	AA	TT	1946954850
SNP_P4_132271_226687	NW_004515964.1	Scaffold511	226687	TT	GG	1946954852
SNP_P4_132272_235430	NW_004515964.1	Scaffold511	235430	GG	AA	1946954853
SNP_P4_132273_235653	NW_004515964.1	Scaffold511	235653	AA	TT	1946954855
SNP_P4_132274_235689	NW_004515964.1	Scaffold511	235689	GG	AA	1946954857
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SNP_P4_132277_236007	NW_004515964.1	Scaffold511	236007	AA	CC	1946954863
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SNP_P4_132279_238695	NW_004515964.1	Scaffold511	238695	CC	GG	1946954867
SNP_P4_132281_238720	NW_004515964.1	Scaffold511	238720	GG	AA	1946954869
SNP_P4_132282_239275	NW_004515964.1	Scaffold511	239275	TT	AA	1946954871
SNP_P4_132283_687	NW_004515965.1	Scaffold512	687	AA	GG	1946954873
SNP_P4_132284_718	NW_004515965.1	Scaffold512	718	TT	CC	1946954875
SNP_P4_132285_721	NW_004515965.1	Scaffold512	721	GG	AA	1946954877
SNP_P4_132286_732	NW_004515965.1	Scaffold512	732	TT	GG	1946954879
SNP_P4_132287_931	NW_004515965.1	Scaffold512	931	AA	TT	1946954881
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SNP_P4_132290_21824	NW_004515965.1	Scaffold512	21824	GG	CC	1946954887
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SNP_P4_132294_39143	NW_004515965.1	Scaffold512	39143	TT	AA	1946954896
SNP_P4_132295_39538	NW_004515965.1	Scaffold512	39538	AA	TT	1946954898
SNP_P4_132296_40426	NW_004515965.1	Scaffold512	40426	AA	GG	1946954900
SNP_P4_132297_41131	NW_004515965.1	Scaffold512	41131	GG	AA	1946954902
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SNP_P4_132304_60171	NW_004515965.1	Scaffold512	60171	TT	CC	1946954916
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SNP_P4_132306_83214	NW_004515965.1	Scaffold512	83214	AA	CC	1946954920
SNP_P4_132307_83265	NW_004515965.1	Scaffold512	83265	TT	CC	1946954922
SNP_P4_132308_83283	NW_004515965.1	Scaffold512	83283	TT	GG	1946954924
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_132311_85160	NW_004515965.1	Scaffold512	85160	TT	GG	1946954930
SNP_P4_132312_85174	NW_004515965.1	Scaffold512	85174	GG	CC	1946954932
SNP_P4_132313_85227	NW_004515965.1	Scaffold512	85227	AA	CC	1946954934
SNP_P4_132314_85240	NW_004515965.1	Scaffold512	85240	CC	TT	1946954936
SNP_P4_132315_88803	NW_004515965.1	Scaffold512	88803	CC	TT	1946954938
SNP_P4_132316_89095	NW_004515965.1	Scaffold512	89095	CC	TT	1946954940
SNP_P4_132317_98433	NW_004515965.1	Scaffold512	98433	CC	GG	1946954942
SNP_P4_132318_98599	NW_004515965.1	Scaffold512	98599	AA	TT	1946954944
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SNP_P4_132320_98735	NW_004515965.1	Scaffold512	98735	TT	CC	1946954948
SNP_P4_132321_98749	NW_004515965.1	Scaffold512	98749	AA	TT	1946954950
SNP_P4_132322_98770	NW_004515965.1	Scaffold512	98770	AA	TT	1946954952
SNP_P4_132323_98865	NW_004515965.1	Scaffold512	98865	CC	TT	1946954954
SNP_P4_132324_98907	NW_004515965.1	Scaffold512	98907	AA	GG	1946954956
SNP_P4_132325_100662	NW_004515965.1	Scaffold512	100662	AA	CC	1946954958
SNP_P4_132326_105479	NW_004515965.1	Scaffold512	105479	GG	AA	1946954960
SNP_P4_132327_105489	NW_004515965.1	Scaffold512	105489	GG	AA	1946954962
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SNP_P4_132337_115677	NW_004515965.1	Scaffold512	115677	AA	TT	1946954982
SNP_P4_132338_116719	NW_004515965.1	Scaffold512	116719	TT	AA	1946954984
SNP_P4_132339_116723	NW_004515965.1	Scaffold512	116723	AA	TT	1946954986
SNP_P4_132340_116724	NW_004515965.1	Scaffold512	116724	AA	TT	1946954988
SNP_P4_132341_116725	NW_004515965.1	Scaffold512	116725	AA	GG	1946954990
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SNP_P4_132345_126011	NW_004515965.1	Scaffold512	126011	CC	TT	1946954998
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SNP_P4_132348_126056	NW_004515965.1	Scaffold512	126056	GG	AA	1946955004
SNP_P4_132349_126062	NW_004515965.1	Scaffold512	126062	GG	AA	1946955006
SNP_P4_132350_126068	NW_004515965.1	Scaffold512	126068	CC	TT	1946955008
SNP_P4_132351_126119	NW_004515965.1	Scaffold512	126119	AA	CC	1946955010

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_132354_126149	NW_004515965.1	Scaffold512	126149	TT	CC	1946955016
SNP_P4_132355_126155	NW_004515965.1	Scaffold512	126155	GG	TT	1946955018
SNP_P4_132356_126158	NW_004515965.1	Scaffold512	126158	CC	TT	1946955020
SNP_P4_132357_126167	NW_004515965.1	Scaffold512	126167	AA	TT	1946955022
SNP_P4_132358_126182	NW_004515965.1	Scaffold512	126182	AA	TT	1946955024
SNP_P4_132359_126230	NW_004515965.1	Scaffold512	126230	GG	AA	1946955026
SNP_P4_132360_126246	NW_004515965.1	Scaffold512	126246	TT	CC	1946955028
SNP_P4_132361_126249	NW_004515965.1	Scaffold512	126249	GG	AA	1946955030
SNP_P4_132362_126288	NW_004515965.1	Scaffold512	126288	GG	AA	1946955032
SNP_P4_132363_126320	NW_004515965.1	Scaffold512	126320	GG	CC	1946955034
SNP_P4_132365_126348	NW_004515965.1	Scaffold512	126348	TT	CC	1946955036
SNP_P4_132366_126354	NW_004515965.1	Scaffold512	126354	CC	TT	1946955039
SNP_P4_132367_126360	NW_004515965.1	Scaffold512	126360	AA	TT	1946955041
SNP_P4_132368_126367	NW_004515965.1	Scaffold512	126367	AA	TT	1946955043
SNP_P4_132369_126390	NW_004515965.1	Scaffold512	126390	AA	GG	1946955045
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SNP_P4_132373_131831	NW_004515965.1	Scaffold512	131831	AA	GG	1946955053
SNP_P4_132374_136290	NW_004515965.1	Scaffold512	136290	AA	GG	1946955055
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SNP_P4_132376_138399	NW_004515965.1	Scaffold512	138399	TT	GG	1946955059
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SNP_P4_132378_138421	NW_004515965.1	Scaffold512	138421	TT	CC	1946955062
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SNP_P4_132383_138438	NW_004515965.1	Scaffold512	138438	AA	TT	1946955072
SNP_P4_132384_138441	NW_004515965.1	Scaffold512	138441	AA	CC	1946955074
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SNP_P4_132387_138511	NW_004515965.1	Scaffold512	138511	CC	TT	1946955080
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SNP_P4_132389_138792	NW_004515965.1	Scaffold512	138792	CC	GG	1946955084
SNP_P4_132390_139628	NW_004515965.1	Scaffold512	139628	GG	AA	1946955086
SNP_P4_132391_139642	NW_004515965.1	Scaffold512	139642	CC	GG	1946955088
SNP_P4_132392_139861	NW_004515965.1	Scaffold512	139861	CC	AA	1946955090
SNP_P4_132393_139879	NW_004515965.1	Scaffold512	139879	AA	GG	1946955092
SNP_P4_132394_141696	NW_004515965.1	Scaffold512	141696	TT	CC	1946955094

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_132399_155608	NW_004515965.1	Scaffold512	155608	AA	CC	1946955102
SNP_P4_132400_155609	NW_004515965.1	Scaffold512	155609	GG	AA	1946955104
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SNP_P4_132402_155733	NW_004515965.1	Scaffold512	155733	TT	AA	1946955107
SNP_P4_132403_155785	NW_004515965.1	Scaffold512	155785	GG	AA	1946955109
SNP_P4_132404_161956	NW_004515965.1	Scaffold512	161956	TT	GG	1946955111
SNP_P4_132405_162215	NW_004515965.1	Scaffold512	162215	AA	TT	1946955113
SNP_P4_132406_162392	NW_004515965.1	Scaffold512	162392	GG	TT	1946955115
SNP_P4_132407_162483	NW_004515965.1	Scaffold512	162483	TT	CC	1946955117
SNP_P4_132408_166690	NW_004515965.1	Scaffold512	166690	CC	AA	1946955119
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SNP_P4_132416_180645	NW_004515965.1	Scaffold512	180645	AA	GG	1946955134
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SNP_P4_132419_191740	NW_004515965.1	Scaffold512	191740	CC	AA	1946955140
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SNP_P4_132421_192350	NW_004515965.1	Scaffold512	192350	TT	GG	1946955144
SNP_P4_132422_194060	NW_004515965.1	Scaffold512	194060	GG	TT	1946955146
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SNP_P4_132425_205	NW_004515966.1	Scaffold513	205	CC	TT	1946955152
SNP_P4_132428_300	NW_004515966.1	Scaffold513	300	AA	TT	1946955154
SNP_P4_132429_385	NW_004515966.1	Scaffold513	385	AA	TT	1946955155
SNP_P4_132430_420	NW_004515966.1	Scaffold513	420	AA	TT	1946955157
SNP_P4_132431_429	NW_004515966.1	Scaffold513	429	AA	GG	1946955159
SNP_P4_132432_584	NW_004515966.1	Scaffold513	584	TT	CC	1946955161
SNP_P4_132433_644	NW_004515966.1	Scaffold513	644	AA	GG	1946955163
SNP_P4_132434_1452	NW_004515966.1	Scaffold513	1452	GG	AA	1946955165
SNP_P4_132435_1617	NW_004515966.1	Scaffold513	1617	TT	CC	1946955168
SNP_P4_132436_2463	NW_004515966.1	Scaffold513	2463	TT	CC	1946955169
SNP_P4_132437_7241	NW_004515966.1	Scaffold513	7241	TT	CC	1946955171
SNP_P4_132438_7296	NW_004515966.1	Scaffold513	7296	GG	AA	1946955173
SNP_P4_132439_7752	NW_004515966.1	Scaffold513	7752	AA	GG	1946955175

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_132443_17096	NW_004515966.1	Scaffold513	17096	CC	TT	1946955183
SNP_P4_132444_17324	NW_004515966.1	Scaffold513	17324	CC	AA	1946955185
SNP_P4_132445_17632	NW_004515966.1	Scaffold513	17632	GG	AA	1946955187
SNP_P4_132446_82	NW_004515967.1	Scaffold515	82	TT	CC	1946955189
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SNP_P4_132451_430	NW_004515967.1	Scaffold515	430	AA	GG	1946955196
SNP_P4_132452_517	NW_004515967.1	Scaffold515	517	CC	AA	1946955198
SNP_P4_132453_523	NW_004515967.1	Scaffold515	523	CC	AA	1946955200
SNP_P4_132454_1081	NW_004515967.1	Scaffold515	1081	AA	GG	1946955202
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SNP_P4_132481_9811	NW_004515967.1	Scaffold515	9811	AA	GG	1946955254
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_132486_10015	NW_004515967.1	Scaffold515	10015	TT	AA	1946955264
SNP_P4_132487_10099	NW_004515967.1	Scaffold515	10099	TT	GG	1946955266
SNP_P4_132488_10114	NW_004515967.1	Scaffold515	10114	AA	GG	1946955268
SNP_P4_132489_10174	NW_004515967.1	Scaffold515	10174	GG	TT	1946955270
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SNP_P4_132496_10812	NW_004515967.1	Scaffold515	10812	GG	AA	1946955284
SNP_P4_132497_10893	NW_004515967.1	Scaffold515	10893	CC	TT	1946955286
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SNP_P4_132500_10950	NW_004515967.1	Scaffold515	10950	CC	GG	1946955292
SNP_P4_132501_10990	NW_004515967.1	Scaffold515	10990	TT	CC	1946955294
SNP_P4_132502_11016	NW_004515967.1	Scaffold515	11016	CC	TT	1946955296
SNP_P4_132503_11018	NW_004515967.1	Scaffold515	11018	AA	TT	1946955298
SNP_P4_132504_11069	NW_004515967.1	Scaffold515	11069	TT	CC	1946955300
SNP_P4_132505_11070	NW_004515967.1	Scaffold515	11070	CC	GG	1946955302
SNP_P4_132506_12032	NW_004515967.1	Scaffold515	12032	GG	AA	1946955304
SNP_P4_132507_12206	NW_004515967.1	Scaffold515	12206	TT	AA	1946955306
SNP_P4_132508_12635	NW_004515967.1	Scaffold515	12635	TT	CC	1946955308
SNP_P4_132509_12687	NW_004515967.1	Scaffold515	12687	CC	GG	1946955311
SNP_P4_132510_12753	NW_004515967.1	Scaffold515	12753	AA	GG	1946955313
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SNP_P4_132516_13132	NW_004515967.1	Scaffold515	13132	CC	TT	1946955324
SNP_P4_132517_13301	NW_004515967.1	Scaffold515	13301	AA	GG	1946955327
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SNP_P4_132519_15601	NW_004515967.1	Scaffold515	15601	TT	GG	1946955330
SNP_P4_132520_15623	NW_004515967.1	Scaffold515	15623	GG	TT	1946955333
SNP_P4_132521_15784	NW_004515967.1	Scaffold515	15784	TT	CC	1946955335
SNP_P4_132522_15801	NW_004515967.1	Scaffold515	15801	GG	AA	1946955336
SNP_P4_132524_15852	NW_004515967.1	Scaffold515	15852	CC	AA	1946955338
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_132528_16216	NW_004515967.1	Scaffold515	16216	CC	AA	1946955342
SNP_P4_132529_16820	NW_004515967.1	Scaffold515	16820	AA	GG	1946955343
SNP_P4_132530_16825	NW_004515967.1	Scaffold515	16825	CC	TT	1946955345
SNP_P4_132531_19607	NW_004515967.1	Scaffold515	19607	TT	AA	1946955347
SNP_P4_132532_19622	NW_004515967.1	Scaffold515	19622	AA	TT	1946955349
SNP_P4_132533_19650	NW_004515967.1	Scaffold515	19650	TT	GG	1946955351
SNP_P4_132534_19653	NW_004515967.1	Scaffold515	19653	TT	CC	1946955353
SNP_P4_132535_19664	NW_004515967.1	Scaffold515	19664	GG	TT	1946955354
SNP_P4_132536_20045	NW_004515967.1	Scaffold515	20045	GG	TT	1946955356
SNP_P4_132537_20056	NW_004515967.1	Scaffold515	20056	AA	CC	1946955359
SNP_P4_132538_21809	NW_004515967.1	Scaffold515	21809	TT	CC	1946955361
SNP_P4_132539_21839	NW_004515967.1	Scaffold515	21839	AA	CC	1946955363
SNP_P4_132540_22105	NW_004515967.1	Scaffold515	22105	AA	TT	1946955365
SNP_P4_132541_22106	NW_004515967.1	Scaffold515	22106	CC	TT	1946955367
SNP_P4_132542_22110	NW_004515967.1	Scaffold515	22110	TT	AA	1946955369
SNP_P4_132543_22174	NW_004515967.1	Scaffold515	22174	TT	CC	1946955371
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SNP_P4_132548_24392	NW_004515967.1	Scaffold515	24392	GG	TT	1946955381
SNP_P4_132549_25071	NW_004515967.1	Scaffold515	25071	AA	TT	1946955383
SNP_P4_132550_25290	NW_004515967.1	Scaffold515	25290	AA	GG	1946955385
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SNP_P4_132552_26189	NW_004515967.1	Scaffold515	26189	CC	TT	1946955389
SNP_P4_132553_26419	NW_004515967.1	Scaffold515	26419	CC	TT	1946955391
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SNP_P4_132556_27886	NW_004515967.1	Scaffold515	27886	CC	TT	1946955398
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SNP_P4_132559_28305	NW_004515967.1	Scaffold515	28305	TT	GG	1946955402
SNP_P4_132560_28327	NW_004515967.1	Scaffold515	28327	GG	AA	1946955404
SNP_P4_132561_28367	NW_004515967.1	Scaffold515	28367	CC	TT	1946955406
SNP_P4_132562_28390	NW_004515967.1	Scaffold515	28390	AA	GG	1946955408
SNP_P4_132563_28423	NW_004515967.1	Scaffold515	28423	AA	GG	1946955410
SNP_P4_132564_28463	NW_004515967.1	Scaffold515	28463	GG	AA	1946955412
SNP_P4_132565_28510	NW_004515967.1	Scaffold515	28510	CC	GG	1946955414
SNP_P4_132566_28524	NW_004515967.1	Scaffold515	28524	AA	GG	1946955416
SNP_P4_132567_28678	NW_004515967.1	Scaffold515	28678	TT	GG	1946955418
SNP_P4_132568_28713	NW_004515967.1	Scaffold515	28713	GG	AA	1946955420

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_132571_29043	NW_004515967.1	Scaffold515	29043	AA	GG	1946955427
SNP_P4_132572_29141	NW_004515967.1	Scaffold515	29141	TT	CC	1946955429
SNP_P4_132573_29143	NW_004515967.1	Scaffold515	29143	TT	GG	1946955431
SNP_P4_132574_29173	NW_004515967.1	Scaffold515	29173	CC	TT	1946955433
SNP_P4_132575_29265	NW_004515967.1	Scaffold515	29265	GG	CC	1946955435
SNP_P4_132576_29353	NW_004515967.1	Scaffold515	29353	TT	AA	1946955437
SNP_P4_132577_29374	NW_004515967.1	Scaffold515	29374	GG	CC	1946955439
SNP_P4_132578_29495	NW_004515967.1	Scaffold515	29495	TT	CC	1946955441
SNP_P4_132579_29729	NW_004515967.1	Scaffold515	29729	TT	CC	1946955443
SNP_P4_132580_29736	NW_004515967.1	Scaffold515	29736	CC	TT	1946955446
SNP_P4_132581_29772	NW_004515967.1	Scaffold515	29772	AA	CC	1946955448
SNP_P4_132582_29790	NW_004515967.1	Scaffold515	29790	TT	CC	1946955450
SNP_P4_132583_29791	NW_004515967.1	Scaffold515	29791	TT	CC	1946955452
SNP_P4_132584_30130	NW_004515967.1	Scaffold515	30130	CC	TT	1946955454
SNP_P4_132585_30253	NW_004515967.1	Scaffold515	30253	CC	TT	1946955456
SNP_P4_132586_30287	NW_004515967.1	Scaffold515	30287	AA	GG	1946955458
SNP_P4_132587_30302	NW_004515967.1	Scaffold515	30302	CC	AA	1946955460
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SNP_P4_132589_30356	NW_004515967.1	Scaffold515	30356	GG	TT	1946955465
SNP_P4_132590_30368	NW_004515967.1	Scaffold515	30368	GG	TT	1946955467
SNP_P4_132591_30419	NW_004515967.1	Scaffold515	30419	AA	GG	1946955469
SNP_P4_132592_30467	NW_004515967.1	Scaffold515	30467	TT	AA	1946955471
SNP_P4_132593_30468	NW_004515967.1	Scaffold515	30468	TT	CC	1946955473
SNP_P4_132594_30472	NW_004515967.1	Scaffold515	30472	AA	CC	1946955475
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SNP_P4_132596_30498	NW_004515967.1	Scaffold515	30498	CC	TT	1946955479
SNP_P4_132597_30544	NW_004515967.1	Scaffold515	30544	CC	AA	1946955481
SNP_P4_132598_30578	NW_004515967.1	Scaffold515	30578	GG	AA	1946955483
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SNP_P4_132602_30655	NW_004515967.1	Scaffold515	30655	GG	AA	1946955491
SNP_P4_132603_30684	NW_004515967.1	Scaffold515	30684	TT	CC	1946955494
SNP_P4_132604_30697	NW_004515967.1	Scaffold515	30697	GG	CC	1946955496
SNP_P4_132605_30701	NW_004515967.1	Scaffold515	30701	AA	GG	1946955498
SNP_P4_132606_30715	NW_004515967.1	Scaffold515	30715	GG	TT	1946955500
SNP_P4_132607_30759	NW_004515967.1	Scaffold515	30759	AA	GG	1946955502
SNP_P4_132608_30788	NW_004515967.1	Scaffold515	30788	AA	TT	1946955504
SNP_P4_132609_30796	NW_004515967.1	Scaffold515	30796	AA	CC	1946955507
SNP_P4_132610_30799	NW_004515967.1	Scaffold515	30799	CC	GG	1946955509

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_132613_30868	NW_004515967.1	Scaffold515	30868	AA	GG	1946955515
SNP_P4_132614_30872	NW_004515967.1	Scaffold515	30872	GG	TT	1946955517
SNP_P4_132615_30882	NW_004515967.1	Scaffold515	30882	AA	GG	1946955519
SNP_P4_132616_30938	NW_004515967.1	Scaffold515	30938	AA	GG	1946955521
SNP_P4_132617_30994	NW_004515967.1	Scaffold515	30994	TT	CC	1946955523
SNP_P4_132618_31072	NW_004515967.1	Scaffold515	31072	CC	TT	1946955525
SNP_P4_132619_31126	NW_004515967.1	Scaffold515	31126	GG	AA	1946955528
SNP_P4_132620_31237	NW_004515967.1	Scaffold515	31237	GG	TT	1946955530
SNP_P4_132621_31279	NW_004515967.1	Scaffold515	31279	CC	TT	1946955532
SNP_P4_132622_31314	NW_004515967.1	Scaffold515	31314	CC	TT	1946955534
SNP_P4_132623_31376	NW_004515967.1	Scaffold515	31376	GG	AA	1946955536
SNP_P4_132624_31390	NW_004515967.1	Scaffold515	31390	AA	GG	1946955539
SNP_P4_132625_31531	NW_004515967.1	Scaffold515	31531	AA	CC	1946955541
SNP_P4_132626_31564	NW_004515967.1	Scaffold515	31564	GG	CC	1946955543
SNP_P4_132627_31671	NW_004515967.1	Scaffold515	31671	AA	TT	1946955545
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SNP_P4_132630_31848	NW_004515967.1	Scaffold515	31848	TT	CC	1946955550
SNP_P4_132631_31865	NW_004515967.1	Scaffold515	31865	CC	GG	1946955552
SNP_P4_132632_31976	NW_004515967.1	Scaffold515	31976	AA	GG	1946955554
SNP_P4_132633_32272	NW_004515967.1	Scaffold515	32272	AA	TT	1946955556
SNP_P4_132634_32350	NW_004515967.1	Scaffold515	32350	CC	GG	1946955558
SNP_P4_132635_32364	NW_004515967.1	Scaffold515	32364	GG	CC	1946955560
SNP_P4_132636_32483	NW_004515967.1	Scaffold515	32483	TT	GG	1946955562
SNP_P4_132637_32488	NW_004515967.1	Scaffold515	32488	TT	CC	1946955564
SNP_P4_132638_32694	NW_004515967.1	Scaffold515	32694	TT	GG	1946955566
SNP_P4_132639_33093	NW_004515967.1	Scaffold515	33093	AA	TT	1946955568
SNP_P4_132640_33147	NW_004515967.1	Scaffold515	33147	TT	CC	1946955570
SNP_P4_132641_33148	NW_004515967.1	Scaffold515	33148	CC	TT	1946955572
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SNP_P4_132646_33320	NW_004515967.1	Scaffold515	33320	GG	AA	1946955582
SNP_P4_132647_33342	NW_004515967.1	Scaffold515	33342	AA	TT	1946955583
SNP_P4_132648_33391	NW_004515967.1	Scaffold515	33391	TT	CC	1946955586
SNP_P4_132649_33397	NW_004515967.1	Scaffold515	33397	AA	TT	1946955587
SNP_P4_132650_33402	NW_004515967.1	Scaffold515	33402	GG	AA	1946955589
SNP_P4_132651_33423	NW_004515967.1	Scaffold515	33423	GG	AA	1946955591
SNP_P4_132652_33483	NW_004515967.1	Scaffold515	33483	GG	AA	1946955593
SNP_P4_132653_33496	NW_004515967.1	Scaffold515	33496	TT	AA	1946955595

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_132656_33968	NW_004515967.1	Scaffold515	33968	TT	CC	1946955602
SNP_P4_132657_34028	NW_004515967.1	Scaffold515	34028	AA	TT	1946955604
SNP_P4_132658_34300	NW_004515967.1	Scaffold515	34300	GG	AA	1946955606
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SNP_P4_132663_34609	NW_004515967.1	Scaffold515	34609	GG	AA	1946955616
SNP_P4_132664_34685	NW_004515967.1	Scaffold515	34685	CC	AA	1946955618
SNP_P4_132665_36422	NW_004515967.1	Scaffold515	36422	TT	CC	1946955620
SNP_P4_132666_36425	NW_004515967.1	Scaffold515	36425	TT	CC	1946955622
SNP_P4_132667_36565	NW_004515967.1	Scaffold515	36565	GG	TT	1946955624
SNP_P4_132668_36587	NW_004515967.1	Scaffold515	36587	TT	CC	1946955626
SNP_P4_132669_36602	NW_004515967.1	Scaffold515	36602	TT	CC	1946955628
SNP_P4_132670_36611	NW_004515967.1	Scaffold515	36611	AA	GG	1946955630
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SNP_P4_132684_42569	NW_004515967.1	Scaffold515	42569	CC	AA	1946955659
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SNP_P4_132686_42634	NW_004515967.1	Scaffold515	42634	CC	TT	1946955664
SNP_P4_132687_42671	NW_004515967.1	Scaffold515	42671	TT	CC	1946955666
SNP_P4_132688_42843	NW_004515967.1	Scaffold515	42843	AA	GG	1946955668
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SNP_P4_132690_42885	NW_004515967.1	Scaffold515	42885	TT	CC	1946955672
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SNP_P4_132692_42992	NW_004515967.1	Scaffold515	42992	CC	TT	1946955676
SNP_P4_132694_43118	NW_004515967.1	Scaffold515	43118	CC	TT	1946955678
SNP_P4_132695_43131	NW_004515967.1	Scaffold515	43131	CC	TT	1946955680
SNP_P4_132696_43271	NW_004515967.1	Scaffold515	43271	TT	CC	1946955682

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_132699_43594	NW_004515967.1	Scaffold515	43594	TT	CC	1946955687
SNP_P4_132700_43699	NW_004515967.1	Scaffold515	43699	GG	TT	1946955689
SNP_P4_132701_44595	NW_004515967.1	Scaffold515	44595	TT	CC	1946955691
SNP_P4_132702_44624	NW_004515967.1	Scaffold515	44624	AA	GG	1946955693
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SNP_P4_132708_44762	NW_004515967.1	Scaffold515	44762	TT	AA	1946955707
SNP_P4_132709_44777	NW_004515967.1	Scaffold515	44777	CC	TT	1946955709
SNP_P4_132710_44779	NW_004515967.1	Scaffold515	44779	AA	GG	1946955711
SNP_P4_132711_44843	NW_004515967.1	Scaffold515	44843	TT	CC	1946955713
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SNP_P4_132715_45097	NW_004515967.1	Scaffold515	45097	AA	TT	1946955721
SNP_P4_132716_45126	NW_004515967.1	Scaffold515	45126	TT	CC	1946955723
SNP_P4_132717_45265	NW_004515967.1	Scaffold515	45265	CC	GG	1946955725
SNP_P4_132718_45463	NW_004515967.1	Scaffold515	45463	AA	GG	1946955727
SNP_P4_132719_45476	NW_004515967.1	Scaffold515	45476	GG	AA	1946955729
SNP_P4_132720_45654	NW_004515967.1	Scaffold515	45654	TT	CC	1946955731
SNP_P4_132721_45789	NW_004515967.1	Scaffold515	45789	AA	GG	1946955733
SNP_P4_132722_45819	NW_004515967.1	Scaffold515	45819	AA	TT	1946955735
SNP_P4_132723_45845	NW_004515967.1	Scaffold515	45845	CC	GG	1946955737
SNP_P4_132724_45989	NW_004515967.1	Scaffold515	45989	CC	TT	1946955739
SNP_P4_132725_45994	NW_004515967.1	Scaffold515	45994	CC	TT	1946955741
SNP_P4_132726_46020	NW_004515967.1	Scaffold515	46020	GG	CC	1946955743
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SNP_P4_132728_46114	NW_004515967.1	Scaffold515	46114	AA	GG	1946955747
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SNP_P4_132730_46374	NW_004515967.1	Scaffold515	46374	AA	GG	1946955751
SNP_P4_132731_46398	NW_004515967.1	Scaffold515	46398	TT	CC	1946955753
SNP_P4_132732_46421	NW_004515967.1	Scaffold515	46421	CC	AA	1946955755
SNP_P4_132733_46452	NW_004515967.1	Scaffold515	46452	CC	TT	1946955757
SNP_P4_132734_46496	NW_004515967.1	Scaffold515	46496	AA	CC	1946955759
SNP_P4_132735_46861	NW_004515967.1	Scaffold515	46861	CC	AA	1946955761
SNP_P4_132736_47215	NW_004515967.1	Scaffold515	47215	CC	TT	1946955763
SNP_P4_132737_47251	NW_004515967.1	Scaffold515	47251	CC	TT	1946955765
SNP_P4_132738_47279	NW_004515967.1	Scaffold515	47279	CC	TT	1946955767

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_132740_47356	NW_004515967.1	Scaffold515	47356	AA	GG	1946955771
SNP_P4_132741_47430	NW_004515967.1	Scaffold515	47430	GG	AA	1946955773
SNP_P4_132742_47434	NW_004515967.1	Scaffold515	47434	CC	GG	1946955775
SNP_P4_132743_47499	NW_004515967.1	Scaffold515	47499	TT	CC	1946955777
SNP_P4_132744_47620	NW_004515967.1	Scaffold515	47620	CC	TT	1946955779
SNP_P4_132745_47734	NW_004515967.1	Scaffold515	47734	CC	TT	1946955781
SNP_P4_132746_61043	NW_004515967.1	Scaffold515	61043	TT	GG	1946955783
SNP_P4_132747_61084	NW_004515967.1	Scaffold515	61084	AA	GG	1946955785
SNP_P4_132748_61170	NW_004515967.1	Scaffold515	61170	GG	AA	1946955787
SNP_P4_132749_61186	NW_004515967.1	Scaffold515	61186	TT	AA	1946955789
SNP_P4_132750_61187	NW_004515967.1	Scaffold515	61187	TT	AA	1946955792
SNP_P4_132751_61201	NW_004515967.1	Scaffold515	61201	AA	GG	1946955794
SNP_P4_132752_61285	NW_004515967.1	Scaffold515	61285	GG	AA	1946955796
SNP_P4_132753_61571	NW_004515967.1	Scaffold515	61571	CC	TT	1946955798
SNP_P4_132754_61578	NW_004515967.1	Scaffold515	61578	TT	CC	1946955799
SNP_P4_132755_61585	NW_004515967.1	Scaffold515	61585	AA	CC	1946955801
SNP_P4_132756_61624	NW_004515967.1	Scaffold515	61624	TT	GG	1946955803
SNP_P4_132757_61675	NW_004515967.1	Scaffold515	61675	CC	AA	1946955805
SNP_P4_132758_61727	NW_004515967.1	Scaffold515	61727	AA	TT	1946955807
SNP_P4_132760_61835	NW_004515967.1	Scaffold515	61835	GG	AA	1946955809
SNP_P4_132761_61917	NW_004515967.1	Scaffold515	61917	CC	AA	1946955811
SNP_P4_132762_61950	NW_004515967.1	Scaffold515	61950	GG	AA	1946955813
SNP_P4_132763_61959	NW_004515967.1	Scaffold515	61959	GG	TT	1946955815
SNP_P4_132764_62034	NW_004515967.1	Scaffold515	62034	AA	GG	1946955817
SNP_P4_132765_62055	NW_004515967.1	Scaffold515	62055	CC	TT	1946955819
SNP_P4_132766_62056	NW_004515967.1	Scaffold515	62056	TT	CC	1946955821
SNP_P4_132767_62138	NW_004515967.1	Scaffold515	62138	AA	TT	1946955823
SNP_P4_132768_62139	NW_004515967.1	Scaffold515	62139	CC	TT	1946955825
SNP_P4_132769_62152	NW_004515967.1	Scaffold515	62152	GG	AA	1946955827
SNP_P4_132770_62354	NW_004515967.1	Scaffold515	62354	AA	TT	1946955829
SNP_P4_132771_62381	NW_004515967.1	Scaffold515	62381	CC	GG	1946955831
SNP_P4_132772_62527	NW_004515967.1	Scaffold515	62527	TT	CC	1946955833
SNP_P4_132773_62879	NW_004515967.1	Scaffold515	62879	CC	AA	1946955835
SNP_P4_132774_63066	NW_004515967.1	Scaffold515	63066	CC	GG	1946955837
SNP_P4_132775_67497	NW_004515967.1	Scaffold515	67497	GG	CC	1946955839
SNP_P4_132776_72603	NW_004515967.1	Scaffold515	72603	GG	TT	1946955841
SNP_P4_132777_72625	NW_004515967.1	Scaffold515	72625	TT	CC	1946955843
SNP_P4_132778_72647	NW_004515967.1	Scaffold515	72647	AA	GG	1946955845
SNP_P4_132779_72674	NW_004515967.1	Scaffold515	72674	GG	CC	1946955847
SNP_P4_132780_72678	NW_004515967.1	Scaffold515	72678	AA	CC	1946955849
SNP_P4_132781_72680	NW_004515967.1	Scaffold515	72680	GG	AA	1946955851

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_132783_72686	NW_004515967.1	Scaffold515	72686	AA	GG	1946955855
SNP_P4_132784_72722	NW_004515967.1	Scaffold515	72722	CC	AA	1946955857
SNP_P4_132785_72733	NW_004515967.1	Scaffold515	72733	TT	CC	1946955859
SNP_P4_132786_72736	NW_004515967.1	Scaffold515	72736	GG	AA	1946955861
SNP_P4_132787_72756	NW_004515967.1	Scaffold515	72756	TT	CC	1946955863
SNP_P4_132788_72786	NW_004515967.1	Scaffold515	72786	AA	CC	1946955865
SNP_P4_132789_72806	NW_004515967.1	Scaffold515	72806	TT	CC	1946955867
SNP_P4_132790_72843	NW_004515967.1	Scaffold515	72843	TT	GG	1946955869
SNP_P4_132791_74593	NW_004515967.1	Scaffold515	74593	AA	CC	1946955871
SNP_P4_132792_74753	NW_004515967.1	Scaffold515	74753	TT	AA	1946955873
SNP_P4_132793_80866	NW_004515967.1	Scaffold515	80866	AA	TT	1946955875
SNP_P4_132794_82205	NW_004515967.1	Scaffold515	82205	GG	TT	1946955877
SNP_P4_132795_82245	NW_004515967.1	Scaffold515	82245	AA	CC	1946955879
SNP_P4_132796_82255	NW_004515967.1	Scaffold515	82255	TT	CC	1946955881
SNP_P4_132797_82469	NW_004515967.1	Scaffold515	82469	CC	TT	1946955883
SNP_P4_132798_82478	NW_004515967.1	Scaffold515	82478	GG	AA	1946955885
SNP_P4_132799_82481	NW_004515967.1	Scaffold515	82481	CC	GG	1946955887
SNP_P4_132800_82520	NW_004515967.1	Scaffold515	82520	GG	AA	1946955889
SNP_P4_132801_82556	NW_004515967.1	Scaffold515	82556	TT	CC	1946955891
SNP_P4_132802_82923	NW_004515967.1	Scaffold515	82923	TT	GG	1946955893
SNP_P4_132803_89350	NW_004515967.1	Scaffold515	89350	AA	GG	1946955895
SNP_P4_132804_89851	NW_004515967.1	Scaffold515	89851	TT	AA	1946955897
SNP_P4_132805_92332	NW_004515967.1	Scaffold515	92332	AA	TT	1946955900
SNP_P4_132806_92335	NW_004515967.1	Scaffold515	92335	TT	CC	1946955902
SNP_P4_132807_93785	NW_004515967.1	Scaffold515	93785	TT	AA	1946955904
SNP_P4_132808_93801	NW_004515967.1	Scaffold515	93801	TT	CC	1946955906
SNP_P4_132810_100195	NW_004515967.1	Scaffold515	100195	AA	GG	1946955908
SNP_P4_132811_100203	NW_004515967.1	Scaffold515	100203	TT	CC	1946955910
SNP_P4_132812_100243	NW_004515967.1	Scaffold515	100243	GG	AA	1946955912
SNP_P4_132813_100461	NW_004515967.1	Scaffold515	100461	AA	GG	1946955915
SNP_P4_132814_100466	NW_004515967.1	Scaffold515	100466	AA	GG	1946955917
SNP_P4_132815_100539	NW_004515967.1	Scaffold515	100539	TT	CC	1946955919
SNP_P4_132816_100545	NW_004515967.1	Scaffold515	100545	GG	AA	1946955921
SNP_P4_132818_113010	NW_004515967.1	Scaffold515	113010	TT	CC	1946955923
SNP_P4_132819_113868	NW_004515967.1	Scaffold515	113868	CC	GG	1946955925
SNP_P4_132820_137905	NW_004515967.1	Scaffold515	137905	TT	GG	1946955927
SNP_P4_132821_143292	NW_004515967.1	Scaffold515	143292	GG	AA	1946955929
SNP_P4_132822_149886	NW_004515967.1	Scaffold515	149886	GG	AA	1946955931
SNP_P4_132823_160768	NW_004515967.1	Scaffold515	160768	GG	AA	1946955933
SNP_P4_132824_161183	NW_004515967.1	Scaffold515	161183	AA	TT	1946955935
SNP_P4_132825_170586	NW_004515967.1	Scaffold515	170586	CC	AA	1946955937

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_132827_170634	NW_004515967.1	Scaffold515	170634	GG	AA	1946955941
SNP_P4_132828_174441	NW_004515967.1	Scaffold515	174441	TT	CC	1946955943
SNP_P4_132829_174920	NW_004515967.1	Scaffold515	174920	GG	AA	1946955945
SNP_P4_132830_174944	NW_004515967.1	Scaffold515	174944	TT	GG	1946955947
SNP_P4_132831_174972	NW_004515967.1	Scaffold515	174972	TT	GG	1946955949
SNP_P4_132832_175214	NW_004515967.1	Scaffold515	175214	TT	GG	1946955951
SNP_P4_132833_175278	NW_004515967.1	Scaffold515	175278	GG	TT	1946955953
SNP_P4_132834_175713	NW_004515967.1	Scaffold515	175713	TT	AA	1946955955
SNP_P4_132835_175714	NW_004515967.1	Scaffold515	175714	AA	CC	1946955957
SNP_P4_132836_179022	NW_004515967.1	Scaffold515	179022	TT	CC	1946955959
SNP_P4_132837_187504	NW_004515967.1	Scaffold515	187504	CC	AA	1946955961
SNP_P4_132838_187547	NW_004515967.1	Scaffold515	187547	GG	CC	1946955963
SNP_P4_132839_187551	NW_004515967.1	Scaffold515	187551	TT	CC	1946955965
SNP_P4_132840_187559	NW_004515967.1	Scaffold515	187559	GG	CC	1946955967
SNP_P4_132841_189892	NW_004515967.1	Scaffold515	189892	AA	TT	1946955969
SNP_P4_132842_194155	NW_004515967.1	Scaffold515	194155	TT	CC	1946955971
SNP_P4_132843_194521	NW_004515967.1	Scaffold515	194521	GG	TT	1946955974
SNP_P4_132844_194533	NW_004515967.1	Scaffold515	194533	TT	AA	1946955976
SNP_P4_132845_194615	NW_004515967.1	Scaffold515	194615	CC	AA	1946955978
SNP_P4_132846_194689	NW_004515967.1	Scaffold515	194689	AA	CC	1946955980
SNP_P4_132847_194713	NW_004515967.1	Scaffold515	194713	CC	GG	1946955982
SNP_P4_132848_194728	NW_004515967.1	Scaffold515	194728	GG	AA	1946955984
SNP_P4_132849_198071	NW_004515967.1	Scaffold515	198071	TT	AA	1946955986
SNP_P4_132850_198085	NW_004515967.1	Scaffold515	198085	AA	GG	1946955988
SNP_P4_132851_198375	NW_004515967.1	Scaffold515	198375	CC	TT	1946955990
SNP_P4_132852_198437	NW_004515967.1	Scaffold515	198437	AA	TT	1946955992
SNP_P4_132853_198459	NW_004515967.1	Scaffold515	198459	GG	AA	1946955994
SNP_P4_132854_198476	NW_004515967.1	Scaffold515	198476	TT	CC	1946955996
SNP_P4_132855_198504	NW_004515967.1	Scaffold515	198504	CC	TT	1946955998
SNP_P4_132856_198749	NW_004515967.1	Scaffold515	198749	AA	GG	1946956000
SNP_P4_132857_198762	NW_004515967.1	Scaffold515	198762	TT	CC	1946956002
SNP_P4_132858_198812	NW_004515967.1	Scaffold515	198812	TT	GG	1946956004
SNP_P4_132859_198988	NW_004515967.1	Scaffold515	198988	TT	CC	1946956006
SNP_P4_132860_199194	NW_004515967.1	Scaffold515	199194	AA	GG	1946956008
SNP_P4_132861_199411	NW_004515967.1	Scaffold515	199411	TT	AA	1946956010
SNP_P4_132862_208751	NW_004515967.1	Scaffold515	208751	CC	TT	1946956012
SNP_P4_132863_209191	NW_004515967.1	Scaffold515	209191	TT	AA	1946956014
SNP_P4_132864_209201	NW_004515967.1	Scaffold515	209201	CC	TT	1946956016
SNP_P4_132865_209204	NW_004515967.1	Scaffold515	209204	GG	TT	1946956018
SNP_P4_132866_216811	NW_004515967.1	Scaffold515	216811	AA	GG	1946956020
SNP_P4_132867_217073	NW_004515967.1	Scaffold515	217073	GG	AA	1946956022

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_132869_225130	NW_004515967.1	Scaffold515	225130	GG	AA	1946956027
SNP_P4_132870_225135	NW_004515967.1	Scaffold515	225135	CC	TT	1946956028
SNP_P4_132871_226052	NW_004515967.1	Scaffold515	226052	GG	AA	1946956030
SNP_P4_132872_233189	NW_004515967.1	Scaffold515	233189	CC	TT	1946956032
SNP_P4_132873_233283	NW_004515967.1	Scaffold515	233283	TT	CC	1946956034
SNP_P4_132874_233380	NW_004515967.1	Scaffold515	233380	CC	AA	1946956036
SNP_P4_132875_233505	NW_004515967.1	Scaffold515	233505	TT	GG	1946956038
SNP_P4_132876_233586	NW_004515967.1	Scaffold515	233586	AA	TT	1946956040
SNP_P4_132877_234979	NW_004515967.1	Scaffold515	234979	GG	AA	1946956042
SNP_P4_132878_235053	NW_004515967.1	Scaffold515	235053	AA	GG	1946956044
SNP_P4_132879_235066	NW_004515967.1	Scaffold515	235066	GG	AA	1946956046
SNP_P4_132880_235393	NW_004515967.1	Scaffold515	235393	AA	TT	1946956048
SNP_P4_132881_235439	NW_004515967.1	Scaffold515	235439	AA	GG	1946956049
SNP_P4_132882_235449	NW_004515967.1	Scaffold515	235449	AA	CC	1946956051
SNP_P4_132883_235534	NW_004515967.1	Scaffold515	235534	GG	AA	1946956053
SNP_P4_132884_242099	NW_004515967.1	Scaffold515	242099	TT	CC	1946956055
SNP_P4_132885_242138	NW_004515967.1	Scaffold515	242138	TT	CC	1946956057
SNP_P4_132887_242156	NW_004515967.1	Scaffold515	242156	CC	TT	1946956059
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SNP_P4_132889_242426	NW_004515967.1	Scaffold515	242426	AA	GG	1946956063
SNP_P4_132890_242566	NW_004515967.1	Scaffold515	242566	GG	AA	1946956065
SNP_P4_132891_242568	NW_004515967.1	Scaffold515	242568	AA	CC	1946956067
SNP_P4_132892_242574	NW_004515967.1	Scaffold515	242574	AA	GG	1946956069
SNP_P4_132893_253407	NW_004515967.1	Scaffold515	253407	CC	TT	1946956070
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SNP_P4_132895_266007	NW_004515967.1	Scaffold515	266007	GG	AA	1946956074
SNP_P4_132896_266178	NW_004515967.1	Scaffold515	266178	AA	TT	1946956076
SNP_P4_132897_266468	NW_004515967.1	Scaffold515	266468	GG	AA	1946956078
SNP_P4_132898_266505	NW_004515967.1	Scaffold515	266505	AA	GG	1946956080
SNP_P4_132899_266513	NW_004515967.1	Scaffold515	266513	CC	GG	1946956082
SNP_P4_132900_266564	NW_004515967.1	Scaffold515	266564	TT	AA	1946956084
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SNP_P4_132902_272482	NW_004515967.1	Scaffold515	272482	TT	CC	1946956088
SNP_P4_132903_272568	NW_004515967.1	Scaffold515	272568	AA	TT	1946956090
SNP_P4_132904_272641	NW_004515967.1	Scaffold515	272641	AA	GG	1946956092
SNP_P4_132905_272665	NW_004515967.1	Scaffold515	272665	AA	CC	1946956094
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SNP_P4_132907_272696	NW_004515967.1	Scaffold515	272696	TT	GG	1946956098
SNP_P4_132908_275498	NW_004515967.1	Scaffold515	275498	TT	GG	1946956100
SNP_P4_132909_276985	NW_004515967.1	Scaffold515	276985	GG	AA	1946956102
SNP_P4_132910_277033	NW_004515967.1	Scaffold515	277033	AA	TT	1946956104

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_132913_277323	NW_004515967.1	Scaffold515	277323	TT	GG	1946956109
SNP_P4_132914_277336	NW_004515967.1	Scaffold515	277336	TT	AA	1946956111
SNP_P4_132915_277374	NW_004515967.1	Scaffold515	277374	AA	GG	1946956113
SNP_P4_132916_277378	NW_004515967.1	Scaffold515	277378	AA	CC	1946956115
SNP_P4_132917_280764	NW_004515967.1	Scaffold515	280764	TT	CC	1946956117
SNP_P4_132918_280814	NW_004515967.1	Scaffold515	280814	TT	AA	1946956119
SNP_P4_132919_281072	NW_004515967.1	Scaffold515	281072	CC	AA	1946956120
SNP_P4_132920_281074	NW_004515967.1	Scaffold515	281074	CC	GG	1946956122
SNP_P4_132921_281094	NW_004515967.1	Scaffold515	281094	CC	AA	1946956124
SNP_P4_132922_281115	NW_004515967.1	Scaffold515	281115	CC	AA	1946956126
SNP_P4_132923_281179	NW_004515967.1	Scaffold515	281179	CC	TT	1946956128
SNP_P4_132924_281197	NW_004515967.1	Scaffold515	281197	AA	TT	1946956130
SNP_P4_132925_186	NW_004515968.1	Scaffold520	186	CC	TT	1946956132
SNP_P4_132926_293	NW_004515968.1	Scaffold520	293	AA	GG	1946956134
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SNP_P4_132930_718	NW_004515968.1	Scaffold520	718	AA	TT	1946956142
SNP_P4_132931_738	NW_004515968.1	Scaffold520	738	AA	GG	1946956144
SNP_P4_132932_917	NW_004515968.1	Scaffold520	917	GG	AA	1946956146
SNP_P4_132933_1022	NW_004515968.1	Scaffold520	1022	TT	AA	1946956148
SNP_P4_132934_5602	NW_004515968.1	Scaffold520	5602	AA	GG	1946956150
SNP_P4_132935_22111	NW_004515968.1	Scaffold520	22111	GG	AA	1946956152
SNP_P4_132936_22117	NW_004515968.1	Scaffold520	22117	TT	GG	1946956154
SNP_P4_132937_22135	NW_004515968.1	Scaffold520	22135	CC	TT	1946956156
SNP_P4_132938_22159	NW_004515968.1	Scaffold520	22159	GG	AA	1946956158
SNP_P4_132939_22162	NW_004515968.1	Scaffold520	22162	TT	CC	1946956160
SNP_P4_132940_22194	NW_004515968.1	Scaffold520	22194	AA	GG	1946956162
SNP_P4_132941_22208	NW_004515968.1	Scaffold520	22208	AA	TT	1946956164
SNP_P4_132942_23620	NW_004515968.1	Scaffold520	23620	GG	AA	1946956166
SNP_P4_132943_23656	NW_004515968.1	Scaffold520	23656	AA	GG	1946956168
SNP_P4_132944_23657	NW_004515968.1	Scaffold520	23657	GG	AA	1946956170
SNP_P4_132945_25436	NW_004515968.1	Scaffold520	25436	AA	GG	1946956172
SNP_P4_132946_25803	NW_004515968.1	Scaffold520	25803	TT	GG	1946956174
SNP_P4_132947_25881	NW_004515968.1	Scaffold520	25881	AA	GG	1946956176
SNP_P4_132948_26319	NW_004515968.1	Scaffold520	26319	AA	GG	1946956178
SNP_P4_132949_26320	NW_004515968.1	Scaffold520	26320	AA	TT	1946956180
SNP_P4_132950_31031	NW_004515968.1	Scaffold520	31031	CC	AA	1946956182
SNP_P4_132951_31092	NW_004515968.1	Scaffold520	31092	TT	CC	1946956184
SNP_P4_132952_31144	NW_004515968.1	Scaffold520	31144	GG	CC	1946956186

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_132955_33991	NW_004515968.1	Scaffold520	33991	TT	AA	1946956192
SNP_P4_132956_34288	NW_004515968.1	Scaffold520	34288	AA	GG	1946956193
SNP_P4_132957_37096	NW_004515968.1	Scaffold520	37096	GG	AA	1946956195
SNP_P4_132958_37545	NW_004515968.1	Scaffold520	37545	AA	TT	1946956197
SNP_P4_132959_37549	NW_004515968.1	Scaffold520	37549	CC	TT	1946956199
SNP_P4_132960_37950	NW_004515968.1	Scaffold520	37950	AA	CC	1946956201
SNP_P4_132961_45872	NW_004515968.1	Scaffold520	45872	AA	GG	1946956203
SNP_P4_132962_45913	NW_004515968.1	Scaffold520	45913	TT	CC	1946956205
SNP_P4_132963_46303	NW_004515968.1	Scaffold520	46303	AA	CC	1946956207
SNP_P4_132964_60074	NW_004515968.1	Scaffold520	60074	AA	TT	1946956209
SNP_P4_132965_60204	NW_004515968.1	Scaffold520	60204	CC	TT	1946956211
SNP_P4_132966_62206	NW_004515968.1	Scaffold520	62206	TT	CC	1946956213
SNP_P4_132967_62215	NW_004515968.1	Scaffold520	62215	CC	GG	1946956215
SNP_P4_132968_65186	NW_004515968.1	Scaffold520	65186	GG	AA	1946956217
SNP_P4_132969_66499	NW_004515968.1	Scaffold520	66499	GG	AA	1946956219
SNP_P4_132970_70690	NW_004515968.1	Scaffold520	70690	AA	TT	1946956221
SNP_P4_132971_70706	NW_004515968.1	Scaffold520	70706	AA	TT	1946956223
SNP_P4_132972_71973	NW_004515968.1	Scaffold520	71973	AA	TT	1946956225
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SNP_P4_132978_105402	NW_004515968.1	Scaffold520	105402	GG	TT	1946956234
SNP_P4_132979_105579	NW_004515968.1	Scaffold520	105579	AA	GG	1946956236
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SNP_P4_132981_105674	NW_004515968.1	Scaffold520	105674	GG	AA	1946956240
SNP_P4_132982_113878	NW_004515968.1	Scaffold520	113878	TT	GG	1946956242
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SNP_P4_132986_120018	NW_004515968.1	Scaffold520	120018	TT	CC	1946956251
SNP_P4_132987_120049	NW_004515968.1	Scaffold520	120049	GG	AA	1946956253
SNP_P4_132988_120236	NW_004515968.1	Scaffold520	120236	TT	CC	1946956255
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SNP_P4_132990_120436	NW_004515968.1	Scaffold520	120436	TT	CC	1946956258
SNP_P4_132991_120511	NW_004515968.1	Scaffold520	120511	TT	CC	1946956260
SNP_P4_132992_120517	NW_004515968.1	Scaffold520	120517	TT	AA	1946956262
SNP_P4_132993_120520	NW_004515968.1	Scaffold520	120520	TT	CC	1946956264
SNP_P4_132994_129465	NW_004515968.1	Scaffold520	129465	AA	GG	1946956266
SNP_P4_132995_129703	NW_004515968.1	Scaffold520	129703	TT	AA	1946956268

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_132997_129951	NW_004515968.1	Scaffold520	129951	AA	TT	1946956272
SNP_P4_132998_142696	NW_004515968.1	Scaffold520	142696	TT	CC	1946956274
SNP_P4_132999_142804	NW_004515968.1	Scaffold520	142804	GG	CC	1946956275
SNP_P4_133000_142888	NW_004515968.1	Scaffold520	142888	TT	CC	1946956277
SNP_P4_133001_142926	NW_004515968.1	Scaffold520	142926	TT	CC	1946956279
SNP_P4_133002_142968	NW_004515968.1	Scaffold520	142968	CC	TT	1946956281
SNP_P4_133003_142997	NW_004515968.1	Scaffold520	142997	GG	AA	1946956283
SNP_P4_133004_143120	NW_004515968.1	Scaffold520	143120	TT	CC	1946956285
SNP_P4_133005_143128	NW_004515968.1	Scaffold520	143128	TT	CC	1946956287
SNP_P4_133006_143149	NW_004515968.1	Scaffold520	143149	TT	CC	1946956288
SNP_P4_133007_143317	NW_004515968.1	Scaffold520	143317	TT	AA	1946956290
SNP_P4_133008_143339	NW_004515968.1	Scaffold520	143339	AA	GG	1946956292
SNP_P4_133009_143357	NW_004515968.1	Scaffold520	143357	GG	AA	1946956294
SNP_P4_133010_143366	NW_004515968.1	Scaffold520	143366	GG	AA	1946956296
SNP_P4_133011_143367	NW_004515968.1	Scaffold520	143367	AA	GG	1946956298
SNP_P4_133012_143377	NW_004515968.1	Scaffold520	143377	TT	CC	1946956300
SNP_P4_133013_143424	NW_004515968.1	Scaffold520	143424	CC	GG	1946956301
SNP_P4_133014_144850	NW_004515968.1	Scaffold520	144850	TT	CC	1946956303
SNP_P4_133015_146271	NW_004515968.1	Scaffold520	146271	CC	TT	1946956305
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SNP_P4_133017_161523	NW_004515968.1	Scaffold520	161523	CC	TT	1946956309
SNP_P4_133018_161551	NW_004515968.1	Scaffold520	161551	CC	TT	1946956311
SNP_P4_133019_163660	NW_004515968.1	Scaffold520	163660	TT	CC	1946956313
SNP_P4_133020_165417	NW_004515968.1	Scaffold520	165417	TT	CC	1946956315
SNP_P4_133021_165835	NW_004515968.1	Scaffold520	165835	TT	AA	1946956317
SNP_P4_133022_165860	NW_004515968.1	Scaffold520	165860	GG	TT	1946956319
SNP_P4_133023_167828	NW_004515968.1	Scaffold520	167828	AA	GG	1946956321
SNP_P4_133024_182237	NW_004515968.1	Scaffold520	182237	GG	AA	1946956323
SNP_P4_133025_182242	NW_004515968.1	Scaffold520	182242	GG	AA	1946956325
SNP_P4_133026_185390	NW_004515968.1	Scaffold520	185390	TT	AA	1946956327
SNP_P4_133027_195425	NW_004515968.1	Scaffold520	195425	CC	TT	1946956329
SNP_P4_133028_198125	NW_004515968.1	Scaffold520	198125	CC	TT	1946956331
SNP_P4_133029_204610	NW_004515968.1	Scaffold520	204610	GG	AA	1946956333
SNP_P4_133030_205733	NW_004515968.1	Scaffold520	205733	AA	GG	1946956335
SNP_P4_133031_206274	NW_004515968.1	Scaffold520	206274	TT	AA	1946956337
SNP_P4_133032_208991	NW_004515968.1	Scaffold520	208991	AA	GG	1946956339
SNP_P4_133033_229860	NW_004515968.1	Scaffold520	229860	AA	GG	1946956341
SNP_P4_133034_229870	NW_004515968.1	Scaffold520	229870	AA	CC	1946956343
SNP_P4_133035_229872	NW_004515968.1	Scaffold520	229872	GG	AA	1946956345
SNP_P4_133036_230828	NW_004515968.1	Scaffold520	230828	GG	AA	1946956347
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_133040_231841	NW_004515968.1	Scaffold520	231841	AA	GG	1946956354
SNP_P4_133041_231856	NW_004515968.1	Scaffold520	231856	GG	AA	1946956356
SNP_P4_133042_231930	NW_004515968.1	Scaffold520	231930	CC	GG	1946956358
SNP_P4_133043_1853	NW_004515969.1	Scaffold523	1853	TT	CC	1946956360
SNP_P4_133044_12444	NW_004515969.1	Scaffold523	12444	AA	CC	1946956362
SNP_P4_133045_12632	NW_004515969.1	Scaffold523	12632	CC	AA	1946956364
SNP_P4_133046_12655	NW_004515969.1	Scaffold523	12655	GG	AA	1946956366
SNP_P4_133047_12820	NW_004515969.1	Scaffold523	12820	AA	GG	1946956368
SNP_P4_133048_12821	NW_004515969.1	Scaffold523	12821	CC	GG	1946956370
SNP_P4_133049_14235	NW_004515969.1	Scaffold523	14235	AA	GG	1946956372
SNP_P4_133050_14261	NW_004515969.1	Scaffold523	14261	AA	CC	1946956375
SNP_P4_133051_14519	NW_004515969.1	Scaffold523	14519	CC	AA	1946956377
SNP_P4_133052_14539	NW_004515969.1	Scaffold523	14539	TT	CC	1946956378
SNP_P4_133053_14560	NW_004515969.1	Scaffold523	14560	AA	CC	1946956381
SNP_P4_133054_14604	NW_004515969.1	Scaffold523	14604	TT	CC	1946956383
SNP_P4_133055_14606	NW_004515969.1	Scaffold523	14606	AA	CC	1946956385
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SNP_P4_133057_14672	NW_004515969.1	Scaffold523	14672	CC	TT	1946956389
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SNP_P4_133060_1052	NW_004515971.1	Scaffold526	1052	TT	CC	1946956393
SNP_P4_133061_21213	NW_004515971.1	Scaffold526	21213	GG	AA	1946956395
SNP_P4_133062_21218	NW_004515971.1	Scaffold526	21218	TT	GG	1946956398
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SNP_P4_133067_32890	NW_004515971.1	Scaffold526	32890	TT	AA	1946956407
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SNP_P4_133075_44851	NW_004515971.1	Scaffold526	44851	TT	GG	1946956424
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SNP_P4_133078_47623	NW_004515971.1	Scaffold526	47623	TT	CC	1946956430
SNP_P4_133079_47786	NW_004515971.1	Scaffold526	47786	TT	CC	1946956432
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_133083_56040	NW_004515971.1	Scaffold526	56040	AA	CC	1946956440
SNP_P4_133084_58798	NW_004515971.1	Scaffold526	58798	GG	AA	1946956442
SNP_P4_133085_58805	NW_004515971.1	Scaffold526	58805	TT	CC	1946956444
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SNP_P4_133087_58848	NW_004515971.1	Scaffold526	58848	AA	GG	1946956448
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SNP_P4_133090_58882	NW_004515971.1	Scaffold526	58882	AA	GG	1946956454
SNP_P4_133091_58929	NW_004515971.1	Scaffold526	58929	GG	AA	1946956456
SNP_P4_133092_58933	NW_004515971.1	Scaffold526	58933	TT	CC	1946956458
SNP_P4_133093_58980	NW_004515971.1	Scaffold526	58980	TT	AA	1946956460
SNP_P4_133094_58984	NW_004515971.1	Scaffold526	58984	AA	GG	1946956462
SNP_P4_133095_59287	NW_004515971.1	Scaffold526	59287	CC	TT	1946956464
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SNP_P4_133097_59338	NW_004515971.1	Scaffold526	59338	CC	TT	1946956468
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SNP_P4_133116_84340	NW_004515971.1	Scaffold526	84340	GG	TT	1946956506
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SNP_P4_133118_84630	NW_004515971.1	Scaffold526	84630	TT	AA	1946956510
SNP_P4_133119_90867	NW_004515971.1	Scaffold526	90867	CC	AA	1946956512
SNP_P4_133120_91115	NW_004515971.1	Scaffold526	91115	GG	AA	1946956514
SNP_P4_133121_91154	NW_004515971.1	Scaffold526	91154	AA	TT	1946956515
SNP_P4_133122_93003	NW_004515971.1	Scaffold526	93003	AA	GG	1946956516

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_133124_93011	NW_004515971.1	Scaffold526	93011	AA	GG	1946956519
SNP_P4_133125_93302	NW_004515971.1	Scaffold526	93302	AA	CC	1946956521
SNP_P4_133126_101130	NW_004515971.1	Scaffold526	101130	AA	TT	1946956523
SNP_P4_133127_101917	NW_004515971.1	Scaffold526	101917	AA	GG	1946956525
SNP_P4_133128_101918	NW_004515971.1	Scaffold526	101918	GG	CC	1946956527
SNP_P4_133129_102287	NW_004515971.1	Scaffold526	102287	AA	CC	1946956529
SNP_P4_133130_102795	NW_004515971.1	Scaffold526	102795	CC	GG	1946956531
SNP_P4_133131_105670	NW_004515971.1	Scaffold526	105670	TT	GG	1946956533
SNP_P4_133132_108022	NW_004515971.1	Scaffold526	108022	AA	GG	1946956535
SNP_P4_133133_117995	NW_004515971.1	Scaffold526	117995	GG	AA	1946956537
SNP_P4_133134_129142	NW_004515971.1	Scaffold526	129142	CC	TT	1946956539
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SNP_P4_133142_1753	NW_004515972.1	Scaffold527	1753	AA	TT	1946956552
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SNP_P4_133144_2037	NW_004515972.1	Scaffold527	2037	GG	AA	1946956556
SNP_P4_133145_2041	NW_004515972.1	Scaffold527	2041	GG	AA	1946956558
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SNP_P4_133148_2110	NW_004515972.1	Scaffold527	2110	GG	AA	1946956562
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SNP_P4_133151_2187	NW_004515972.1	Scaffold527	2187	TT	CC	1946956568
SNP_P4_133152_2502	NW_004515972.1	Scaffold527	2502	AA	TT	1946956570
SNP_P4_133153_2520	NW_004515972.1	Scaffold527	2520	TT	GG	1946956572
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SNP_P4_133162_2989	NW_004515972.1	Scaffold527	2989	CC	AA	1946956589
SNP_P4_133163_3012	NW_004515972.1	Scaffold527	3012	TT	CC	1946956591
SNP_P4_133164_3181	NW_004515972.1	Scaffold527	3181	GG	TT	1946956593
SNP_P4_133165_3182	NW_004515972.1	Scaffold527	3182	CC	TT	1946956595
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_133170_3816	NW_004515972.1	Scaffold527	3816	TT	CC	1946956605
SNP_P4_133171_3848	NW_004515972.1	Scaffold527	3848	GG	AA	1946956607
SNP_P4_133172_3962	NW_004515972.1	Scaffold527	3962	CC	TT	1946956609
SNP_P4_133173_3976	NW_004515972.1	Scaffold527	3976	CC	TT	1946956611
SNP_P4_133174_4016	NW_004515972.1	Scaffold527	4016	AA	CC	1946956613
SNP_P4_133175_4054	NW_004515972.1	Scaffold527	4054	CC	TT	1946956615
SNP_P4_133176_4077	NW_004515972.1	Scaffold527	4077	AA	TT	1946956617
SNP_P4_133177_4099	NW_004515972.1	Scaffold527	4099	CC	GG	1946956618
SNP_P4_133178_4103	NW_004515972.1	Scaffold527	4103	AA	CC	1946956620
SNP_P4_133179_4121	NW_004515972.1	Scaffold527	4121	TT	CC	1946956622
SNP_P4_133180_4185	NW_004515972.1	Scaffold527	4185	AA	CC	1946956624
SNP_P4_133181_4200	NW_004515972.1	Scaffold527	4200	CC	TT	1946956626
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SNP_P4_133183_4340	NW_004515972.1	Scaffold527	4340	AA	CC	1946956630
SNP_P4_133184_4364	NW_004515972.1	Scaffold527	4364	CC	TT	1946956632
SNP_P4_133185_4540	NW_004515972.1	Scaffold527	4540	AA	TT	1946956635
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SNP_P4_133190_4772	NW_004515972.1	Scaffold527	4772	TT	AA	1946956645
SNP_P4_133192_4835	NW_004515972.1	Scaffold527	4835	AA	GG	1946956646
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SNP_P4_133196_4989	NW_004515972.1	Scaffold527	4989	CC	AA	1946956654
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SNP_P4_133206_67742	NW_004515972.1	Scaffold527	67742	GG	TT	1946956675
SNP_P4_133207_71315	NW_004515972.1	Scaffold527	71315	AA	CC	1946956677
SNP_P4_133209_82391	NW_004515972.1	Scaffold527	82391	AA	CC	1946956679
SNP_P4_133210_82409	NW_004515972.1	Scaffold527	82409	TT	CC	1946956681

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_133214_119923	NW_004515972.1	Scaffold527	119923	AA	CC	1946956687
SNP_P4_133215_120310	NW_004515972.1	Scaffold527	120310	GG	AA	1946956689
SNP_P4_133216_120316	NW_004515972.1	Scaffold527	120316	TT	CC	1946956691
SNP_P4_133217_120645	NW_004515972.1	Scaffold527	120645	TT	CC	1946956693
SNP_P4_133218_121990	NW_004515972.1	Scaffold527	121990	TT	CC	1946956695
SNP_P4_133219_129172	NW_004515972.1	Scaffold527	129172	AA	GG	1946956697
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SNP_P4_133221_142825	NW_004515972.1	Scaffold527	142825	AA	GG	1946956701
SNP_P4_133222_143004	NW_004515972.1	Scaffold527	143004	AA	GG	1946956704
SNP_P4_133223_29022	NW_004515973.1	Scaffold528	29022	CC	GG	1946956706
SNP_P4_133224_32485	NW_004515973.1	Scaffold528	32485	TT	CC	1946956708
SNP_P4_133225_63507	NW_004515973.1	Scaffold528	63507	TT	CC	1946956710
SNP_P4_133226_63599	NW_004515973.1	Scaffold528	63599	CC	GG	1946956712
SNP_P4_133227_66234	NW_004515973.1	Scaffold528	66234	AA	TT	1946956714
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SNP_P4_133230_72182	NW_004515973.1	Scaffold528	72182	CC	TT	1946956718
SNP_P4_133231_72187	NW_004515973.1	Scaffold528	72187	CC	AA	1946956721
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SNP_P4_133238_74460	NW_004515973.1	Scaffold528	74460	CC	TT	1946956735
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SNP_P4_133241_74507	NW_004515973.1	Scaffold528	74507	AA	GG	1946956741
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SNP_P4_133247_126954	NW_004515973.1	Scaffold528	126954	CC	TT	1946956753
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SNP_P4_133250_127148	NW_004515973.1	Scaffold528	127148	AA	TT	1946956759
SNP_P4_133251_143831	NW_004515973.1	Scaffold528	143831	CC	TT	1946956760
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SNP_P4_133253_160496	NW_004515973.1	Scaffold528	160496	CC	AA	1946956764
SNP_P4_133254_164960	NW_004515973.1	Scaffold528	164960	AA	GG	1946956766

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_133257_165201	NW_004515973.1	Scaffold528	165201	TT	CC	1946956772
SNP_P4_133259_215715	NW_004515973.1	Scaffold528	215715	CC	AA	1946956774
SNP_P4_133260_215763	NW_004515973.1	Scaffold528	215763	AA	CC	1946956776
SNP_P4_133261_226193	NW_004515973.1	Scaffold528	226193	GG	TT	1946956778
SNP_P4_133262_249378	NW_004515973.1	Scaffold528	249378	TT	CC	1946956780
SNP_P4_133263_285735	NW_004515973.1	Scaffold528	285735	TT	GG	1946956782
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SNP_P4_133265_285758	NW_004515973.1	Scaffold528	285758	GG	AA	1946956786
SNP_P4_133266_285794	NW_004515973.1	Scaffold528	285794	CC	AA	1946956788
SNP_P4_133267_287446	NW_004515973.1	Scaffold528	287446	GG	TT	1946956790
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SNP_P4_133269_289976	NW_004515973.1	Scaffold528	289976	TT	GG	1946956794
SNP_P4_133270_294811	NW_004515973.1	Scaffold528	294811	CC	TT	1946956796
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SNP_P4_133296_4282	NW_004515974.1	Scaffold530	4282	GG	AA	1946956842
SNP_P4_133297_4297	NW_004515974.1	Scaffold530	4297	CC	GG	1946956844
SNP_P4_133298_4386	NW_004515974.1	Scaffold530	4386	TT	AA	1946956846
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_133303_11063	NW_004515974.1	Scaffold530	11063	AA	CC	1946956854
SNP_P4_133304_11298	NW_004515974.1	Scaffold530	11298	GG	AA	1946956856
SNP_P4_133305_11337	NW_004515974.1	Scaffold530	11337	TT	CC	1946956858
SNP_P4_133306_13863	NW_004515974.1	Scaffold530	13863	GG	CC	1946956859
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SNP_P4_133315_4845	NW_004515975.1	Scaffold531	4845	AA	CC	1946956875
SNP_P4_133316_4866	NW_004515975.1	Scaffold531	4866	TT	AA	1946956877
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SNP_P4_133343_13579	NW_004515975.1	Scaffold531	13579	GG	AA	1946956925
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_133569_221722	NW_004515983.1	Scaffold543	221722	GG	TT	1946957343
SNP_P4_133570_224124	NW_004515983.1	Scaffold543	224124	TT	CC	1946957345
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_133574_224524	NW_004515983.1	Scaffold543	224524	TT	CC	1946957354
SNP_P4_133575_224538	NW_004515983.1	Scaffold543	224538	TT	CC	1946957356
SNP_P4_133576_224541	NW_004515983.1	Scaffold543	224541	AA	GG	1946957358
SNP_P4_133577_225582	NW_004515983.1	Scaffold543	225582	GG	TT	1946957360
SNP_P4_133578_225626	NW_004515983.1	Scaffold543	225626	CC	GG	1946957362
SNP_P4_133579_226069	NW_004515983.1	Scaffold543	226069	AA	GG	1946957364
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SNP_P4_133581_226088	NW_004515983.1	Scaffold543	226088	AA	TT	1946957368
SNP_P4_133582_226091	NW_004515983.1	Scaffold543	226091	CC	AA	1946957370
SNP_P4_133583_226101	NW_004515983.1	Scaffold543	226101	AA	GG	1946957372
SNP_P4_133584_226115	NW_004515983.1	Scaffold543	226115	AA	TT	1946957374
SNP_P4_133585_226130	NW_004515983.1	Scaffold543	226130	TT	AA	1946957376
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SNP_P4_133590_226295	NW_004515983.1	Scaffold543	226295	AA	GG	1946957387
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SNP_P4_133613_243452	NW_004515983.1	Scaffold543	243452	AA	GG	1946957431
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_133618_766	NW_004515984.1	Scaffold544	766	GG	AA	1946957439
SNP_P4_133619_779	NW_004515984.1	Scaffold544	779	GG	AA	1946957441
SNP_P4_133620_1309	NW_004515984.1	Scaffold544	1309	TT	AA	1946957443
SNP_P4_133621_1894	NW_004515984.1	Scaffold544	1894	AA	GG	1946957445
SNP_P4_133622_1895	NW_004515984.1	Scaffold544	1895	TT	AA	1946957447
SNP_P4_133623_2857	NW_004515984.1	Scaffold544	2857	TT	CC	1946957449
SNP_P4_133624_2882	NW_004515984.1	Scaffold544	2882	GG	AA	1946957451
SNP_P4_133625_2925	NW_004515984.1	Scaffold544	2925	GG	TT	1946957453
SNP_P4_133626_3683	NW_004515984.1	Scaffold544	3683	AA	CC	1946957455
SNP_P4_133627_3908	NW_004515984.1	Scaffold544	3908	CC	AA	1946957457
SNP_P4_133628_4220	NW_004515984.1	Scaffold544	4220	GG	AA	1946957459
SNP_P4_133629_6761	NW_004515984.1	Scaffold544	6761	AA	CC	1946957462
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SNP_P4_133631_7080	NW_004515984.1	Scaffold544	7080	GG	AA	1946957466
SNP_P4_133632_7086	NW_004515984.1	Scaffold544	7086	GG	TT	1946957468
SNP_P4_133633_7148	NW_004515984.1	Scaffold544	7148	AA	CC	1946957470
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SNP_P4_133657_37119	NW_004515984.1	Scaffold544	37119	CC	TT	1946957516
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_133671_51782	NW_004515984.1	Scaffold544	51782	GG	AA	1946957540
SNP_P4_133672_51878	NW_004515984.1	Scaffold544	51878	AA	TT	1946957542
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SNP_P4_133674_51973	NW_004515984.1	Scaffold544	51973	GG	CC	1946957546
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_133717_61062	NW_004515984.1	Scaffold544	61062	AA	GG	1946957630
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_133794_105111	NW_004515984.1	Scaffold544	105111	TT	AA	1946957782
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SNP_P4_133799_105804	NW_004515984.1	Scaffold544	105804	AA	CC	1946957790
SNP_P4_133800_110532	NW_004515984.1	Scaffold544	110532	GG	CC	1946957792
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SNP_P4_133803_115378	NW_004515984.1	Scaffold544	115378	GG	AA	1946957796
SNP_P4_133804_118052	NW_004515984.1	Scaffold544	118052	TT	CC	1946957798
SNP_P4_133805_118329	NW_004515984.1	Scaffold544	118329	GG	AA	1946957800
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_133836_126284	NW_004515984.1	Scaffold544	126284	CC	AA	1946957859
SNP_P4_133837_126328	NW_004515984.1	Scaffold544	126328	CC	GG	1946957861
SNP_P4_133838_126373	NW_004515984.1	Scaffold544	126373	CC	GG	1946957863
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SNP_P4_133842_128362	NW_004515984.1	Scaffold544	128362	TT	AA	1946957871
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SNP_P4_133845_130552	NW_004515984.1	Scaffold544	130552	TT	AA	1946957877
SNP_P4_133846_130684	NW_004515984.1	Scaffold544	130684	CC	TT	1946957879
SNP_P4_133847_130712	NW_004515984.1	Scaffold544	130712	TT	AA	1946957881
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_133998_341391	NW_004515984.1	Scaffold544	341391	GG	AA	1946958163
SNP_P4_133999_341586	NW_004515984.1	Scaffold544	341586	TT	AA	1946958165
SNP_P4_134000_341655	NW_004515984.1	Scaffold544	341655	TT	CC	1946958167
SNP_P4_134003_344541	NW_004515984.1	Scaffold544	344541	CC	AA	1946958169
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SNP_P4_134012_11549	NW_004515985.1	Scaffold545	11549	TT	CC	1946958187
SNP_P4_134013_11552	NW_004515985.1	Scaffold545	11552	CC	TT	1946958189
SNP_P4_134014_11568	NW_004515985.1	Scaffold545	11568	AA	GG	1946958191
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_134017_12776	NW_004515985.1	Scaffold545	12776	AA	CC	1946958197
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SNP_P4_134019_12993	NW_004515985.1	Scaffold545	12993	CC	TT	1946958201
SNP_P4_134020_28361	NW_004515985.1	Scaffold545	28361	CC	GG	1946958204
SNP_P4_134021_56244	NW_004515985.1	Scaffold545	56244	AA	GG	1946958206
SNP_P4_134022_56248	NW_004515985.1	Scaffold545	56248	TT	CC	1946958208
SNP_P4_134023_73691	NW_004515985.1	Scaffold545	73691	AA	CC	1946958210
SNP_P4_134024_155804	NW_004515985.1	Scaffold545	155804	TT	CC	1946958212
SNP_P4_134025_156705	NW_004515985.1	Scaffold545	156705	GG	AA	1946958214
SNP_P4_134027_158514	NW_004515985.1	Scaffold545	158514	CC	TT	1946958216
SNP_P4_134028_171729	NW_004515985.1	Scaffold545	171729	CC	TT	1946958218
SNP_P4_134029_178819	NW_004515985.1	Scaffold545	178819	CC	AA	1946958220
SNP_P4_134030_183768	NW_004515985.1	Scaffold545	183768	TT	CC	1946958222
SNP_P4_134031_183787	NW_004515985.1	Scaffold545	183787	AA	GG	1946958224
SNP_P4_134032_183948	NW_004515985.1	Scaffold545	183948	CC	AA	1946958226
SNP_P4_134033_192228	NW_004515985.1	Scaffold545	192228	AA	GG	1946958228
SNP_P4_134034_192264	NW_004515985.1	Scaffold545	192264	GG	TT	1946958230
SNP_P4_134035_192272	NW_004515985.1	Scaffold545	192272	AA	GG	1946958232
SNP_P4_134037_197496	NW_004515985.1	Scaffold545	197496	AA	TT	1946958234
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SNP_P4_134040_253128	NW_004515985.1	Scaffold545	253128	CC	AA	1946958238
SNP_P4_134041_256459	NW_004515985.1	Scaffold545	256459	AA	TT	1946958240
SNP_P4_134042_256956	NW_004515985.1	Scaffold545	256956	AA	CC	1946958242
SNP_P4_134043_268085	NW_004515985.1	Scaffold545	268085	CC	TT	1946958244
SNP_P4_134044_279505	NW_004515985.1	Scaffold545	279505	AA	GG	1946958246
SNP_P4_134045_279530	NW_004515985.1	Scaffold545	279530	GG	AA	1946958248
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SNP_P4_134059_4649	NW_004515986.1	Scaffold546	4649	AA	CC	1946958276
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_134063_40614	NW_004515986.1	Scaffold546	40614	AA	TT	1946958284
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SNP_P4_134065_40696	NW_004515986.1	Scaffold546	40696	AA	TT	1946958288
SNP_P4_134066_45307	NW_004515986.1	Scaffold546	45307	AA	CC	1946958290
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SNP_P4_134071_55190	NW_004515986.1	Scaffold546	55190	GG	TT	1946958298
SNP_P4_134072_55229	NW_004515986.1	Scaffold546	55229	TT	GG	1946958300
SNP_P4_134073_55273	NW_004515986.1	Scaffold546	55273	CC	GG	1946958302
SNP_P4_134074_55274	NW_004515986.1	Scaffold546	55274	CC	TT	1946958304
SNP_P4_134075_55337	NW_004515986.1	Scaffold546	55337	CC	GG	1946958306
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SNP_P4_134077_55421	NW_004515986.1	Scaffold546	55421	CC	TT	1946958310
SNP_P4_134078_55465	NW_004515986.1	Scaffold546	55465	CC	AA	1946958312
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_134106_67864	NW_004515986.1	Scaffold546	67864	TT	CC	1946958367
SNP_P4_134107_67865	NW_004515986.1	Scaffold546	67865	AA	TT	1946958369
SNP_P4_134108_67893	NW_004515986.1	Scaffold546	67893	GG	TT	1946958371
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SNP_P4_134110_68267	NW_004515986.1	Scaffold546	68267	GG	TT	1946958375
SNP_P4_134111_72456	NW_004515986.1	Scaffold546	72456	CC	TT	1946958377
SNP_P4_134112_72777	NW_004515986.1	Scaffold546	72777	CC	TT	1946958379
SNP_P4_134113_72822	NW_004515986.1	Scaffold546	72822	TT	CC	1946958381
SNP_P4_134114_72851	NW_004515986.1	Scaffold546	72851	CC	TT	1946958383
SNP_P4_134115_72887	NW_004515986.1	Scaffold546	72887	GG	CC	1946958385
SNP_P4_134116_73043	NW_004515986.1	Scaffold546	73043	GG	AA	1946958387
SNP_P4_134117_73066	NW_004515986.1	Scaffold546	73066	GG	TT	1946958389
SNP_P4_134118_73067	NW_004515986.1	Scaffold546	73067	GG	AA	1946958391
SNP_P4_134119_73117	NW_004515986.1	Scaffold546	73117	TT	GG	1946958393
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SNP_P4_134126_82108	NW_004515986.1	Scaffold546	82108	AA	GG	1946958407
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_134149_1779	NW_004515987.1	Scaffold547	1779	AA	GG	1946958453
SNP_P4_134150_1870	NW_004515987.1	Scaffold547	1870	TT	CC	1946958455
SNP_P4_134151_1924	NW_004515987.1	Scaffold547	1924	TT	CC	1946958457
SNP_P4_134152_1946	NW_004515987.1	Scaffold547	1946	CC	TT	1946958459
SNP_P4_134153_2013	NW_004515987.1	Scaffold547	2013	TT	AA	1946958461
SNP_P4_134154_2045	NW_004515987.1	Scaffold547	2045	GG	AA	1946958463
SNP_P4_134155_2061	NW_004515987.1	Scaffold547	2061	TT	CC	1946958465
SNP_P4_134156_2350	NW_004515987.1	Scaffold547	2350	GG	TT	1946958467
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SNP_P4_134186_20970	NW_004515987.1	Scaffold547	20970	AA	CC	1946958526
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_134191_27347	NW_004515987.1	Scaffold547	27347	GG	AA	1946958536
SNP_P4_134192_27378	NW_004515987.1	Scaffold547	27378	CC	TT	1946958537
SNP_P4_134193_27404	NW_004515987.1	Scaffold547	27404	CC	AA	1946958539
SNP_P4_134194_27448	NW_004515987.1	Scaffold547	27448	TT	CC	1946958541
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SNP_P4_134212_78130	NW_004515987.1	Scaffold547	78130	CC	AA	1946958576
SNP_P4_134213_78160	NW_004515987.1	Scaffold547	78160	CC	AA	1946958578
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SNP_P4_134215_78188	NW_004515987.1	Scaffold547	78188	TT	CC	1946958582
SNP_P4_134216_81055	NW_004515987.1	Scaffold547	81055	TT	GG	1946958584
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SNP_P4_134225_95927	NW_004515987.1	Scaffold547	95927	AA	GG	1946958601
SNP_P4_134226_96375	NW_004515987.1	Scaffold547	96375	GG	TT	1946958603
SNP_P4_134227_96420	NW_004515987.1	Scaffold547	96420	GG	CC	1946958605
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_134235_96947	NW_004515987.1	Scaffold547	96947	GG	AA	1946958620
SNP_P4_134236_96972	NW_004515987.1	Scaffold547	96972	CC	TT	1946958622
SNP_P4_134238_97047	NW_004515987.1	Scaffold547	97047	AA	GG	1946958624
SNP_P4_134239_97058	NW_004515987.1	Scaffold547	97058	AA	CC	1946958626
SNP_P4_134240_97082	NW_004515987.1	Scaffold547	97082	GG	AA	1946958628
SNP_P4_134241_97162	NW_004515987.1	Scaffold547	97162	AA	TT	1946958630
SNP_P4_134242_97306	NW_004515987.1	Scaffold547	97306	GG	AA	1946958632
SNP_P4_134243_97688	NW_004515987.1	Scaffold547	97688	AA	TT	1946958634
SNP_P4_134244_97720	NW_004515987.1	Scaffold547	97720	CC	TT	1946958636
SNP_P4_134245_97781	NW_004515987.1	Scaffold547	97781	TT	AA	1946958638
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SNP_P4_134254_115111	NW_004515987.1	Scaffold547	115111	GG	AA	1946958656
SNP_P4_134255_115129	NW_004515987.1	Scaffold547	115129	CC	AA	1946958658
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SNP_P4_134270_155875	NW_004515987.1	Scaffold547	155875	TT	GG	1946958688
SNP_P4_134271_155882	NW_004515987.1	Scaffold547	155882	TT	GG	1946958690
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_134277_163125	NW_004515987.1	Scaffold547	163125	AA	GG	1946958698
SNP_P4_134278_163144	NW_004515987.1	Scaffold547	163144	AA	CC	1946958700
SNP_P4_134279_163193	NW_004515987.1	Scaffold547	163193	TT	CC	1946958702
SNP_P4_134280_163199	NW_004515987.1	Scaffold547	163199	TT	CC	1946958704
SNP_P4_134281_163208	NW_004515987.1	Scaffold547	163208	TT	GG	1946958706
SNP_P4_134282_164704	NW_004515987.1	Scaffold547	164704	GG	AA	1946958708
SNP_P4_134283_164892	NW_004515987.1	Scaffold547	164892	GG	CC	1946958710
SNP_P4_134284_164927	NW_004515987.1	Scaffold547	164927	GG	TT	1946958712
SNP_P4_134285_164947	NW_004515987.1	Scaffold547	164947	GG	CC	1946958714
SNP_P4_134286_165032	NW_004515987.1	Scaffold547	165032	TT	AA	1946958716
SNP_P4_134287_165272	NW_004515987.1	Scaffold547	165272	TT	GG	1946958718
SNP_P4_134288_165329	NW_004515987.1	Scaffold547	165329	CC	TT	1946958720
SNP_P4_134289_165463	NW_004515987.1	Scaffold547	165463	AA	GG	1946958722
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SNP_P4_134291_171890	NW_004515987.1	Scaffold547	171890	CC	AA	1946958726
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SNP_P4_134293_172206	NW_004515987.1	Scaffold547	172206	CC	GG	1946958730
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SNP_P4_134316_160082	NW_004515988.1	Scaffold548	160082	GG	AA	1946958769
SNP_P4_134317_169859	NW_004515988.1	Scaffold548	169859	AA	TT	1946958771
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SNP_P4_134319_169945	NW_004515988.1	Scaffold548	169945	TT	AA	1946958775

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_134322_196314	NW_004515988.1	Scaffold548	196314	GG	AA	1946958781
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SNP_P4_134328_212887	NW_004515988.1	Scaffold548	212887	AA	GG	1946958791
SNP_P4_134329_213006	NW_004515988.1	Scaffold548	213006	AA	GG	1946958793
SNP_P4_134330_213237	NW_004515988.1	Scaffold548	213237	GG	TT	1946958795
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SNP_P4_134332_213364	NW_004515988.1	Scaffold548	213364	GG	TT	1946958799
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SNP_P4_134364_381592	NW_004515988.1	Scaffold548	381592	TT	CC	1946958858
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_134416_593559	NW_004515988.1	Scaffold548	593559	CC	TT	1946958952
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SNP_P4_134419_593582	NW_004515988.1	Scaffold548	593582	CC	TT	1946958958
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SNP_P4_134433_614754	NW_004515988.1	Scaffold548	614754	AA	TT	1946958984
SNP_P4_134434_616385	NW_004515988.1	Scaffold548	616385	AA	GG	1946958986
SNP_P4_134435_616410	NW_004515988.1	Scaffold548	616410	TT	CC	1946958988
SNP_P4_134436_616454	NW_004515988.1	Scaffold548	616454	AA	GG	1946958990
SNP_P4_134437_616814	NW_004515988.1	Scaffold548	616814	AA	GG	1946958992
SNP_P4_134438_616848	NW_004515988.1	Scaffold548	616848	TT	GG	1946958994
SNP_P4_134439_616872	NW_004515988.1	Scaffold548	616872	TT	CC	1946958996
SNP_P4_134440_616891	NW_004515988.1	Scaffold548	616891	AA	GG	1946958998
SNP_P4_134441_634732	NW_004515988.1	Scaffold548	634732	TT	AA	1946959000
SNP_P4_134442_635410	NW_004515988.1	Scaffold548	635410	AA	GG	1946959002
SNP_P4_134443_635422	NW_004515988.1	Scaffold548	635422	GG	AA	1946959004
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SNP_P4_134446_683794	NW_004515988.1	Scaffold548	683794	TT	CC	1946959010
SNP_P4_134447_683896	NW_004515988.1	Scaffold548	683896	TT	GG	1946959012
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SNP_P4_134450_685423	NW_004515988.1	Scaffold548	685423	AA	GG	1946959018
SNP_P4_134451_685479	NW_004515988.1	Scaffold548	685479	AA	GG	1946959020
SNP_P4_134452_685570	NW_004515988.1	Scaffold548	685570	GG	AA	1946959022
SNP_P4_134453_4223	NW_004515989.1	Scaffold549	4223	CC	TT	1946959024
SNP_P4_134454_22018	NW_004515989.1	Scaffold549	22018	TT	CC	1946959026
SNP_P4_134455_22378	NW_004515989.1	Scaffold549	22378	TT	AA	1946959028

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_134458_38459	NW_004515989.1	Scaffold549	38459	GG	TT	1946959034
SNP_P4_134459_38503	NW_004515989.1	Scaffold549	38503	TT	AA	1946959036
SNP_P4_134460_38505	NW_004515989.1	Scaffold549	38505	AA	TT	1946959038
SNP_P4_134461_38510	NW_004515989.1	Scaffold549	38510	GG	AA	1946959040
SNP_P4_134462_38522	NW_004515989.1	Scaffold549	38522	CC	TT	1946959042
SNP_P4_134463_41059	NW_004515989.1	Scaffold549	41059	GG	AA	1946959044
SNP_P4_134464_41607	NW_004515989.1	Scaffold549	41607	TT	CC	1946959046
SNP_P4_134465_41636	NW_004515989.1	Scaffold549	41636	CC	GG	1946959048
SNP_P4_134466_42061	NW_004515989.1	Scaffold549	42061	GG	AA	1946959050
SNP_P4_134468_45179	NW_004515989.1	Scaffold549	45179	AA	GG	1946959052
SNP_P4_134469_45185	NW_004515989.1	Scaffold549	45185	AA	TT	1946959054
SNP_P4_134470_51655	NW_004515989.1	Scaffold549	51655	AA	CC	1946959056
SNP_P4_134471_51687	NW_004515989.1	Scaffold549	51687	AA	GG	1946959058
SNP_P4_134472_56075	NW_004515989.1	Scaffold549	56075	AA	TT	1946959060
SNP_P4_134473_58821	NW_004515989.1	Scaffold549	58821	GG	AA	1946959062
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SNP_P4_134476_61028	NW_004515989.1	Scaffold549	61028	TT	CC	1946959066
SNP_P4_134477_61538	NW_004515989.1	Scaffold549	61538	TT	CC	1946959068
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SNP_P4_134479_61579	NW_004515989.1	Scaffold549	61579	CC	TT	1946959072
SNP_P4_134480_61893	NW_004515989.1	Scaffold549	61893	TT	AA	1946959074
SNP_P4_134481_61912	NW_004515989.1	Scaffold549	61912	CC	TT	1946959076
SNP_P4_134482_671	NW_004515990.1	Scaffold552	671	TT	AA	1946959078
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SNP_P4_134484_1300	NW_004515990.1	Scaffold552	1300	TT	CC	1946959082
SNP_P4_134485_546	NW_004515991.1	Scaffold553	546	TT	CC	1946959084
SNP_P4_134486_2394	NW_004515991.1	Scaffold553	2394	CC	GG	1946959086
SNP_P4_134487_2542	NW_004515991.1	Scaffold553	2542	TT	AA	1946959088
SNP_P4_134490_2966	NW_004515991.1	Scaffold553	2966	TT	GG	1946959090
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SNP_P4_134492_3408	NW_004515991.1	Scaffold553	3408	TT	GG	1946959094
SNP_P4_134493_3477	NW_004515991.1	Scaffold553	3477	TT	AA	1946959096
SNP_P4_134494_3496	NW_004515991.1	Scaffold553	3496	CC	AA	1946959098
SNP_P4_134495_4936	NW_004515991.1	Scaffold553	4936	AA	CC	1946959100
SNP_P4_134496_4974	NW_004515991.1	Scaffold553	4974	AA	CC	1946959102
SNP_P4_134497_5037	NW_004515991.1	Scaffold553	5037	CC	AA	1946959104
SNP_P4_134498_5146	NW_004515991.1	Scaffold553	5146	TT	CC	1946959106
SNP_P4_134499_5220	NW_004515991.1	Scaffold553	5220	TT	GG	1946959108
SNP_P4_134500_5224	NW_004515991.1	Scaffold553	5224	GG	AA	1946959110
SNP_P4_134501_20805	NW_004515991.1	Scaffold553	20805	AA	TT	1946959112

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_134504_24202	NW_004515991.1	Scaffold553	24202	CC	TT	1946959118
SNP_P4_134505_24221	NW_004515991.1	Scaffold553	24221	TT	CC	1946959120
SNP_P4_134506_24784	NW_004515991.1	Scaffold553	24784	CC	TT	1946959122
SNP_P4_134507_25049	NW_004515991.1	Scaffold553	25049	CC	GG	1946959124
SNP_P4_134508_33524	NW_004515991.1	Scaffold553	33524	AA	GG	1946959126
SNP_P4_134509_33527	NW_004515991.1	Scaffold553	33527	GG	AA	1946959128
SNP_P4_134510_33534	NW_004515991.1	Scaffold553	33534	AA	GG	1946959130
SNP_P4_134511_33537	NW_004515991.1	Scaffold553	33537	TT	GG	1946959132
SNP_P4_134512_33542	NW_004515991.1	Scaffold553	33542	TT	CC	1946959134
SNP_P4_134513_33566	NW_004515991.1	Scaffold553	33566	AA	GG	1946959136
SNP_P4_134514_33575	NW_004515991.1	Scaffold553	33575	GG	AA	1946959138
SNP_P4_134515_33596	NW_004515991.1	Scaffold553	33596	CC	TT	1946959140
SNP_P4_134516_33617	NW_004515991.1	Scaffold553	33617	GG	AA	1946959142
SNP_P4_134517_33618	NW_004515991.1	Scaffold553	33618	CC	TT	1946959144
SNP_P4_134518_33626	NW_004515991.1	Scaffold553	33626	TT	CC	1946959146
SNP_P4_134519_33629	NW_004515991.1	Scaffold553	33629	TT	CC	1946959148
SNP_P4_134520_33632	NW_004515991.1	Scaffold553	33632	CC	TT	1946959150
SNP_P4_134521_33641	NW_004515991.1	Scaffold553	33641	GG	TT	1946959152
SNP_P4_134522_33644	NW_004515991.1	Scaffold553	33644	TT	CC	1946959154
SNP_P4_134523_33652	NW_004515991.1	Scaffold553	33652	AA	GG	1946959156
SNP_P4_134524_36597	NW_004515991.1	Scaffold553	36597	AA	GG	1946959158
SNP_P4_134525_36611	NW_004515991.1	Scaffold553	36611	CC	GG	1946959160
SNP_P4_134526_36619	NW_004515991.1	Scaffold553	36619	TT	GG	1946959162
SNP_P4_134527_36633	NW_004515991.1	Scaffold553	36633	TT	CC	1946959164
SNP_P4_134528_36634	NW_004515991.1	Scaffold553	36634	TT	CC	1946959166
SNP_P4_134529_39329	NW_004515991.1	Scaffold553	39329	TT	CC	1946959168
SNP_P4_134530_41896	NW_004515991.1	Scaffold553	41896	CC	TT	1946959170
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SNP_P4_134535_41956	NW_004515991.1	Scaffold553	41956	GG	AA	1946959180
SNP_P4_134536_69768	NW_004515991.1	Scaffold553	69768	CC	AA	1946959182
SNP_P4_134537_69824	NW_004515991.1	Scaffold553	69824	GG	AA	1946959184
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SNP_P4_134539_70743	NW_004515991.1	Scaffold553	70743	TT	CC	1946959188
SNP_P4_134541_73479	NW_004515991.1	Scaffold553	73479	GG	AA	1946959190
SNP_P4_134543_92411	NW_004515991.1	Scaffold553	92411	GG	AA	1946959192
SNP_P4_134544_92447	NW_004515991.1	Scaffold553	92447	CC	GG	1946959194
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_134548_92617	NW_004515991.1	Scaffold553	92617	GG	TT	1946959202
SNP_P4_134549_93006	NW_004515991.1	Scaffold553	93006	GG	TT	1946959204
SNP_P4_134550_93113	NW_004515991.1	Scaffold553	93113	TT	CC	1946959206
SNP_P4_134551_93740	NW_004515991.1	Scaffold553	93740	TT	CC	1946959208
SNP_P4_134552_102381	NW_004515991.1	Scaffold553	102381	TT	AA	1946959210
SNP_P4_134554_126872	NW_004515991.1	Scaffold553	126872	TT	AA	1946959212
SNP_P4_134556_145717	NW_004515991.1	Scaffold553	145717	GG	AA	1946959214
SNP_P4_134557_164129	NW_004515991.1	Scaffold553	164129	CC	TT	1946959216
SNP_P4_134558_166233	NW_004515991.1	Scaffold553	166233	AA	GG	1946959218
SNP_P4_134559_166235	NW_004515991.1	Scaffold553	166235	TT	CC	1946959220
SNP_P4_134560_167801	NW_004515991.1	Scaffold553	167801	AA	TT	1946959222
SNP_P4_134561_184778	NW_004515991.1	Scaffold553	184778	AA	GG	1946959224
SNP_P4_134562_200954	NW_004515991.1	Scaffold553	200954	CC	TT	1946959226
SNP_P4_134563_201089	NW_004515991.1	Scaffold553	201089	TT	CC	1946959228
SNP_P4_134564_201091	NW_004515991.1	Scaffold553	201091	TT	AA	1946959230
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SNP_P4_134580_313997	NW_004515991.1	Scaffold553	313997	TT	CC	1946959260
SNP_P4_134582_325577	NW_004515991.1	Scaffold553	325577	AA	CC	1946959262
SNP_P4_134583_325602	NW_004515991.1	Scaffold553	325602	CC	GG	1946959264
SNP_P4_134584_325643	NW_004515991.1	Scaffold553	325643	TT	AA	1946959266
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SNP_P4_134587_386534	NW_004515991.1	Scaffold553	386534	TT	CC	1946959272
SNP_P4_134588_386535	NW_004515991.1	Scaffold553	386535	TT	AA	1946959274
SNP_P4_134589_386536	NW_004515991.1	Scaffold553	386536	CC	TT	1946959276
SNP_P4_134590_386537	NW_004515991.1	Scaffold553	386537	TT	CC	1946959278
SNP_P4_134591_403181	NW_004515991.1	Scaffold553	403181	AA	CC	1946959280

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_134594_403346	NW_004515991.1	Scaffold553	403346	TT	GG	1946959286
SNP_P4_134595_403389	NW_004515991.1	Scaffold553	403389	AA	CC	1946959288
SNP_P4_134596_403398	NW_004515991.1	Scaffold553	403398	CC	TT	1946959290
SNP_P4_134597_403416	NW_004515991.1	Scaffold553	403416	GG	AA	1946959292
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SNP_P4_134599_403627	NW_004515991.1	Scaffold553	403627	GG	AA	1946959296
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SNP_P4_134602_422916	NW_004515991.1	Scaffold553	422916	AA	GG	1946959302
SNP_P4_134603_434907	NW_004515991.1	Scaffold553	434907	TT	CC	1946959304
SNP_P4_134605_464052	NW_004515991.1	Scaffold553	464052	AA	GG	1946959306
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SNP_P4_134607_464071	NW_004515991.1	Scaffold553	464071	TT	AA	1946959310
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SNP_P4_134616_476193	NW_004515991.1	Scaffold553	476193	AA	GG	1946959326
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SNP_P4_134627_480177	NW_004515991.1	Scaffold553	480177	GG	AA	1946959348
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SNP_P4_134629_480405	NW_004515991.1	Scaffold553	480405	CC	AA	1946959352
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SNP_P4_134632_487405	NW_004515991.1	Scaffold553	487405	AA	GG	1946959358
SNP_P4_134633_487407	NW_004515991.1	Scaffold553	487407	CC	AA	1946959360
SNP_P4_134634_515452	NW_004515991.1	Scaffold553	515452	AA	GG	1946959362
SNP_P4_134635_520137	NW_004515991.1	Scaffold553	520137	CC	AA	1946959364

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_134638_526556	NW_004515991.1	Scaffold553	526556	AA	GG	1946959370
SNP_P4_134639_527036	NW_004515991.1	Scaffold553	527036	TT	CC	1946959372
SNP_P4_134641_529627	NW_004515991.1	Scaffold553	529627	TT	GG	1946959374
SNP_P4_134642_583102	NW_004515991.1	Scaffold553	583102	TT	CC	1946959376
SNP_P4_134645_583476	NW_004515991.1	Scaffold553	583476	AA	CC	1946959378
SNP_P4_134646_656307	NW_004515991.1	Scaffold553	656307	TT	CC	1946959380
SNP_P4_134647_680726	NW_004515991.1	Scaffold553	680726	TT	CC	1946959382
SNP_P4_134648_687536	NW_004515991.1	Scaffold553	687536	CC	TT	1946959384
SNP_P4_134649_692983	NW_004515991.1	Scaffold553	692983	AA	TT	1946959386
SNP_P4_134650_697398	NW_004515991.1	Scaffold553	697398	CC	GG	1946959388
SNP_P4_134651_739140	NW_004515991.1	Scaffold553	739140	GG	AA	1946959390
SNP_P4_134652_746428	NW_004515991.1	Scaffold553	746428	TT	GG	1946959392
SNP_P4_134653_746429	NW_004515991.1	Scaffold553	746429	AA	TT	1946959394
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SNP_P4_134658_766771	NW_004515991.1	Scaffold553	766771	GG	CC	1946959404
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SNP_P4_134660_766896	NW_004515991.1	Scaffold553	766896	GG	AA	1946959408
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SNP_P4_134664_766985	NW_004515991.1	Scaffold553	766985	CC	TT	1946959416
SNP_P4_134665_766986	NW_004515991.1	Scaffold553	766986	CC	TT	1946959418
SNP_P4_134666_768334	NW_004515991.1	Scaffold553	768334	GG	AA	1946959420
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SNP_P4_134670_790908	NW_004515991.1	Scaffold553	790908	GG	AA	1946959428
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SNP_P4_134677_823198	NW_004515991.1	Scaffold553	823198	TT	CC	1946959441
SNP_P4_134678_839443	NW_004515991.1	Scaffold553	839443	AA	CC	1946959443
SNP_P4_134679_839460	NW_004515991.1	Scaffold553	839460	TT	CC	1946959445
SNP_P4_134680_839480	NW_004515991.1	Scaffold553	839480	TT	CC	1946959447
SNP_P4_134681_841264	NW_004515991.1	Scaffold553	841264	TT	CC	1946959449

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_134684_842152	NW_004515991.1	Scaffold553	842152	TT	CC	1946959455
SNP_P4_134685_842185	NW_004515991.1	Scaffold553	842185	GG	AA	1946959457
SNP_P4_134686_842197	NW_004515991.1	Scaffold553	842197	TT	CC	1946959459
SNP_P4_134687_868367	NW_004515991.1	Scaffold553	868367	TT	CC	1946959461
SNP_P4_134688_880131	NW_004515991.1	Scaffold553	880131	TT	CC	1946959463
SNP_P4_134689_895918	NW_004515991.1	Scaffold553	895918	CC	TT	1946959465
SNP_P4_134690_906968	NW_004515991.1	Scaffold553	906968	AA	CC	1946959467
SNP_P4_134691_923791	NW_004515991.1	Scaffold553	923791	GG	CC	1946959469
SNP_P4_134692_923824	NW_004515991.1	Scaffold553	923824	TT	AA	1946959471
SNP_P4_134693_923831	NW_004515991.1	Scaffold553	923831	AA	CC	1946959473
SNP_P4_134694_923833	NW_004515991.1	Scaffold553	923833	CC	TT	1946959475
SNP_P4_134695_923861	NW_004515991.1	Scaffold553	923861	AA	CC	1946959477
SNP_P4_134696_924171	NW_004515991.1	Scaffold553	924171	CC	TT	1946959479
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SNP_P4_134701_927437	NW_004515991.1	Scaffold553	927437	AA	CC	1946959485
SNP_P4_134702_927438	NW_004515991.1	Scaffold553	927438	CC	AA	1946959487
SNP_P4_134703_947245	NW_004515991.1	Scaffold553	947245	AA	TT	1946959489
SNP_P4_134704_824	NW_004515992.1	Scaffold556	824	TT	AA	1946959491
SNP_P4_134705_863	NW_004515992.1	Scaffold556	863	TT	AA	1946959493
SNP_P4_134706_885	NW_004515992.1	Scaffold556	885	TT	CC	1946959495
SNP_P4_134707_906	NW_004515992.1	Scaffold556	906	AA	CC	1946959497
SNP_P4_134708_948	NW_004515992.1	Scaffold556	948	AA	TT	1946959499
SNP_P4_134709_960	NW_004515992.1	Scaffold556	960	TT	GG	1946959501
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SNP_P4_134714_1123	NW_004515992.1	Scaffold556	1123	AA	GG	1946959511
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SNP_P4_134721_1545	NW_004515992.1	Scaffold556	1545	TT	CC	1946959523
SNP_P4_134722_1666	NW_004515992.1	Scaffold556	1666	GG	TT	1946959526
SNP_P4_134723_1810	NW_004515992.1	Scaffold556	1810	TT	CC	1946959528
SNP_P4_134724_1821	NW_004515992.1	Scaffold556	1821	CC	GG	1946959530
SNP_P4_134725_2614	NW_004515992.1	Scaffold556	2614	GG	CC	1946959532
SNP_P4_134726_2750	NW_004515992.1	Scaffold556	2750	TT	AA	1946959534

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_134730_2931	NW_004515992.1	Scaffold556	2931	AA	TT	1946959540
SNP_P4_134731_2934	NW_004515992.1	Scaffold556	2934	TT	GG	1946959542
SNP_P4_134732_2946	NW_004515992.1	Scaffold556	2946	TT	AA	1946959544
SNP_P4_134733_3010	NW_004515992.1	Scaffold556	3010	TT	CC	1946959546
SNP_P4_134734_3041	NW_004515992.1	Scaffold556	3041	CC	TT	1946959548
SNP_P4_134735_3083	NW_004515992.1	Scaffold556	3083	TT	AA	1946959550
SNP_P4_134736_3292	NW_004515992.1	Scaffold556	3292	GG	CC	1946959552
SNP_P4_134737_3368	NW_004515992.1	Scaffold556	3368	AA	TT	1946959554
SNP_P4_134738_3369	NW_004515992.1	Scaffold556	3369	TT	GG	1946959556
SNP_P4_134739_3404	NW_004515992.1	Scaffold556	3404	AA	TT	1946959558
SNP_P4_134740_3405	NW_004515992.1	Scaffold556	3405	TT	CC	1946959560
SNP_P4_134741_3600	NW_004515992.1	Scaffold556	3600	AA	TT	1946959562
SNP_P4_134742_3657	NW_004515992.1	Scaffold556	3657	CC	TT	1946959564
SNP_P4_134743_1496	NW_004515993.1	Scaffold557	1496	TT	GG	1946959566
SNP_P4_134744_4778	NW_004515993.1	Scaffold557	4778	GG	AA	1946959568
SNP_P4_134745_5091	NW_004515993.1	Scaffold557	5091	GG	TT	1946959570
SNP_P4_134746_11465	NW_004515995.1	Scaffold559	11465	TT	CC	1946959572
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SNP_P4_134748_34350	NW_004515995.1	Scaffold559	34350	AA	CC	1946959576
SNP_P4_134749_35249	NW_004515995.1	Scaffold559	35249	CC	TT	1946959578
SNP_P4_134750_35294	NW_004515995.1	Scaffold559	35294	CC	TT	1946959580
SNP_P4_134751_42738	NW_004515995.1	Scaffold559	42738	AA	GG	1946959582
SNP_P4_134752_42756	NW_004515995.1	Scaffold559	42756	CC	TT	1946959584
SNP_P4_134753_52977	NW_004515995.1	Scaffold559	52977	TT	GG	1946959586
SNP_P4_134754_61710	NW_004515995.1	Scaffold559	61710	GG	AA	1946959588
SNP_P4_134755_61714	NW_004515995.1	Scaffold559	61714	GG	CC	1946959590
SNP_P4_134756_61748	NW_004515995.1	Scaffold559	61748	CC	GG	1946959592
SNP_P4_134757_61815	NW_004515995.1	Scaffold559	61815	TT	GG	1946959594
SNP_P4_134758_61823	NW_004515995.1	Scaffold559	61823	GG	TT	1946959596
SNP_P4_134759_61992	NW_004515995.1	Scaffold559	61992	AA	TT	1946959598
SNP_P4_134760_62011	NW_004515995.1	Scaffold559	62011	CC	TT	1946959600
SNP_P4_134761_62522	NW_004515995.1	Scaffold559	62522	AA	GG	1946959602
SNP_P4_134762_62534	NW_004515995.1	Scaffold559	62534	TT	AA	1946959604
SNP_P4_134763_62553	NW_004515995.1	Scaffold559	62553	CC	GG	1946959606
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SNP_P4_134765_62587	NW_004515995.1	Scaffold559	62587	AA	GG	1946959610
SNP_P4_134766_62751	NW_004515995.1	Scaffold559	62751	AA	TT	1946959612
SNP_P4_134767_62758	NW_004515995.1	Scaffold559	62758	GG	TT	1946959614
SNP_P4_134768_62794	NW_004515995.1	Scaffold559	62794	TT	AA	1946959616
SNP_P4_134769_62916	NW_004515995.1	Scaffold559	62916	GG	TT	1946959618

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_134771_62932	NW_004515995.1	Scaffold559	62932	GG	TT	1946959622
SNP_P4_134772_62938	NW_004515995.1	Scaffold559	62938	GG	TT	1946959624
SNP_P4_134773_66069	NW_004515995.1	Scaffold559	66069	CC	TT	1946959626
SNP_P4_134774_74715	NW_004515995.1	Scaffold559	74715	AA	CC	1946959628
SNP_P4_134775_74716	NW_004515995.1	Scaffold559	74716	TT	AA	1946959630
SNP_P4_134776_74720	NW_004515995.1	Scaffold559	74720	GG	CC	1946959632
SNP_P4_134777_75088	NW_004515995.1	Scaffold559	75088	AA	CC	1946959634
SNP_P4_134778_75117	NW_004515995.1	Scaffold559	75117	CC	AA	1946959636
SNP_P4_134779_75131	NW_004515995.1	Scaffold559	75131	AA	TT	1946959638
SNP_P4_134781_77435	NW_004515995.1	Scaffold559	77435	AA	GG	1946959640
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SNP_P4_134783_78564	NW_004515995.1	Scaffold559	78564	AA	CC	1946959644
SNP_P4_134784_89595	NW_004515995.1	Scaffold559	89595	AA	GG	1946959646
SNP_P4_134785_92943	NW_004515995.1	Scaffold559	92943	CC	TT	1946959647
SNP_P4_134786_92953	NW_004515995.1	Scaffold559	92953	CC	TT	1946959648
SNP_P4_134788_93260	NW_004515995.1	Scaffold559	93260	AA	GG	1946959649
SNP_P4_134789_94145	NW_004515995.1	Scaffold559	94145	AA	TT	1946959651
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SNP_P4_134794_20504	NW_004515996.1	Scaffold560	20504	GG	AA	1946959661
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SNP_P4_134803_117490	NW_004515996.1	Scaffold560	117490	AA	GG	1946959677
SNP_P4_134804_117492	NW_004515996.1	Scaffold560	117492	GG	AA	1946959679
SNP_P4_134805_117499	NW_004515996.1	Scaffold560	117499	GG	AA	1946959681
SNP_P4_134806_117523	NW_004515996.1	Scaffold560	117523	TT	CC	1946959683
SNP_P4_134807_117529	NW_004515996.1	Scaffold560	117529	CC	TT	1946959685
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SNP_P4_134809_117535	NW_004515996.1	Scaffold560	117535	GG	AA	1946959689
SNP_P4_134810_117584	NW_004515996.1	Scaffold560	117584	CC	AA	1946959691
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SNP_P4_134812_117595	NW_004515996.1	Scaffold560	117595	AA	GG	1946959694
SNP_P4_134813_117596	NW_004515996.1	Scaffold560	117596	GG	AA	1946959696
SNP_P4_134814_117598	NW_004515996.1	Scaffold560	117598	GG	TT	1946959698

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_134816_117613	NW_004515996.1	Scaffold560	117613	TT	CC	1946959701
SNP_P4_134817_117619	NW_004515996.1	Scaffold560	117619	TT	CC	1946959703
SNP_P4_134818_117622	NW_004515996.1	Scaffold560	117622	CC	TT	1946959705
SNP_P4_134819_117628	NW_004515996.1	Scaffold560	117628	AA	GG	1946959707
SNP_P4_134820_117650	NW_004515996.1	Scaffold560	117650	AA	GG	1946959709
SNP_P4_134821_117892	NW_004515996.1	Scaffold560	117892	TT	CC	1946959711
SNP_P4_134822_129767	NW_004515996.1	Scaffold560	129767	TT	AA	1946959713
SNP_P4_134824_137480	NW_004515996.1	Scaffold560	137480	TT	GG	1946959715
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SNP_P4_134828_160692	NW_004515996.1	Scaffold560	160692	TT	AA	1946959718
SNP_P4_134829_160895	NW_004515996.1	Scaffold560	160895	TT	CC	1946959720
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SNP_P4_134832_25380	NW_004515997.1	Scaffold561	25380	AA	CC	1946959726
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SNP_P4_134842_39759	NW_004515997.1	Scaffold561	39759	AA	GG	1946959741
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SNP_P4_134846_84129	NW_004515997.1	Scaffold561	84129	AA	GG	1946959747
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SNP_P4_134851_176603	NW_004515997.1	Scaffold561	176603	GG	AA	1946959753
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SNP_P4_134853_176855	NW_004515997.1	Scaffold561	176855	TT	CC	1946959757
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SNP_P4_134856_205877	NW_004515997.1	Scaffold561	205877	CC	TT	1946959763
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SNP_P4_134858_48325	NW_004515998.1	Scaffold562	48325	AA	TT	1946959767
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SNP_P4_134860_120476	NW_004515998.1	Scaffold562	120476	AA	GG	1946959771
SNP_P4_134861_149905	NW_004515998.1	Scaffold562	149905	CC	TT	1946959773
SNP_P4_134862_149951	NW_004515998.1	Scaffold562	149951	AA	CC	1946959775
SNP_P4_134864_205786	NW_004515998.1	Scaffold562	205786	GG	AA	1946959777

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_134866_219459	NW_004515998.1	Scaffold562	219459	TT	CC	1946959781
SNP_P4_134867_219483	NW_004515998.1	Scaffold562	219483	TT	CC	1946959783
SNP_P4_134868_219581	NW_004515998.1	Scaffold562	219581	TT	AA	1946959785
SNP_P4_134869_221395	NW_004515998.1	Scaffold562	221395	TT	CC	1946959787
SNP_P4_134870_221429	NW_004515998.1	Scaffold562	221429	TT	GG	1946959789
SNP_P4_134871_221452	NW_004515998.1	Scaffold562	221452	TT	CC	1946959791
SNP_P4_134872_221475	NW_004515998.1	Scaffold562	221475	AA	GG	1946959793
SNP_P4_134873_221482	NW_004515998.1	Scaffold562	221482	CC	TT	1946959795
SNP_P4_134874_221730	NW_004515998.1	Scaffold562	221730	CC	GG	1946959797
SNP_P4_134875_221777	NW_004515998.1	Scaffold562	221777	AA	GG	1946959799
SNP_P4_134876_223120	NW_004515998.1	Scaffold562	223120	TT	CC	1946959801
SNP_P4_134878_240790	NW_004515998.1	Scaffold562	240790	GG	AA	1946959803
SNP_P4_134879_256797	NW_004515998.1	Scaffold562	256797	CC	TT	1946959804
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SNP_P4_134881_256878	NW_004515998.1	Scaffold562	256878	TT	CC	1946959808
SNP_P4_134882_256881	NW_004515998.1	Scaffold562	256881	CC	TT	1946959810
SNP_P4_134883_256902	NW_004515998.1	Scaffold562	256902	TT	AA	1946959812
SNP_P4_134884_256912	NW_004515998.1	Scaffold562	256912	TT	CC	1946959814
SNP_P4_134885_257009	NW_004515998.1	Scaffold562	257009	TT	AA	1946959816
SNP_P4_134886_257031	NW_004515998.1	Scaffold562	257031	GG	TT	1946959818
SNP_P4_134887_257034	NW_004515998.1	Scaffold562	257034	GG	AA	1946959820
SNP_P4_134888_257105	NW_004515998.1	Scaffold562	257105	GG	AA	1946959822
SNP_P4_134889_257237	NW_004515998.1	Scaffold562	257237	CC	AA	1946959824
SNP_P4_134890_257238	NW_004515998.1	Scaffold562	257238	AA	CC	1946959826
SNP_P4_134891_257244	NW_004515998.1	Scaffold562	257244	TT	AA	1946959828
SNP_P4_134892_257255	NW_004515998.1	Scaffold562	257255	TT	GG	1946959830
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SNP_P4_134894_257288	NW_004515998.1	Scaffold562	257288	GG	CC	1946959834
SNP_P4_134895_257318	NW_004515998.1	Scaffold562	257318	CC	GG	1946959836
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SNP_P4_134897_257367	NW_004515998.1	Scaffold562	257367	CC	AA	1946959840
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SNP_P4_134902_294940	NW_004515998.1	Scaffold562	294940	CC	TT	1946959850
SNP_P4_134904_302169	NW_004515998.1	Scaffold562	302169	AA	TT	1946959852
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SNP_P4_134906_302948	NW_004515998.1	Scaffold562	302948	TT	CC	1946959855
SNP_P4_134907_303091	NW_004515998.1	Scaffold562	303091	CC	TT	1946959857
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_134910_340924	NW_004515998.1	Scaffold562	340924	TT	GG	1946959862
SNP_P4_134911_2956	NW_004515999.1	Scaffold563	2956	CC	TT	1946959863
SNP_P4_134912_3070	NW_004515999.1	Scaffold563	3070	GG	AA	1946959864
SNP_P4_134913_9111	NW_004515999.1	Scaffold563	9111	AA	GG	1946959865
SNP_P4_134914_15801	NW_004515999.1	Scaffold563	15801	TT	CC	1946959866
SNP_P4_134915_15816	NW_004515999.1	Scaffold563	15816	GG	AA	1946959867
SNP_P4_134916_15838	NW_004515999.1	Scaffold563	15838	AA	TT	1946959869
SNP_P4_134917_18454	NW_004515999.1	Scaffold563	18454	GG	AA	1946959871
SNP_P4_134919_22789	NW_004515999.1	Scaffold563	22789	TT	CC	1946959873
SNP_P4_134920_23125	NW_004515999.1	Scaffold563	23125	AA	GG	1946959875
SNP_P4_134921_23150	NW_004515999.1	Scaffold563	23150	CC	AA	1946959877
SNP_P4_134922_23171	NW_004515999.1	Scaffold563	23171	CC	AA	1946959879
SNP_P4_134923_23489	NW_004515999.1	Scaffold563	23489	GG	AA	1946959881
SNP_P4_134924_23554	NW_004515999.1	Scaffold563	23554	GG	AA	1946959883
SNP_P4_134925_23570	NW_004515999.1	Scaffold563	23570	TT	CC	1946959885
SNP_P4_134926_2239	NW_004516000.1	Scaffold564	2239	TT	CC	1946959887
SNP_P4_134927_2620	NW_004516000.1	Scaffold564	2620	AA	TT	1946959889
SNP_P4_134929_2711	NW_004516000.1	Scaffold564	2711	CC	GG	1946959891
SNP_P4_134930_2712	NW_004516000.1	Scaffold564	2712	TT	AA	1946959893
SNP_P4_134931_2716	NW_004516000.1	Scaffold564	2716	GG	TT	1946959895
SNP_P4_134932_2734	NW_004516000.1	Scaffold564	2734	CC	GG	1946959897
SNP_P4_134933_2991	NW_004516000.1	Scaffold564	2991	CC	TT	1946959898
SNP_P4_134934_3050	NW_004516000.1	Scaffold564	3050	AA	TT	1946959900
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SNP_P4_134936_3279	NW_004516000.1	Scaffold564	3279	TT	CC	1946959904
SNP_P4_134937_3332	NW_004516000.1	Scaffold564	3332	TT	CC	1946959906
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SNP_P4_134939_3390	NW_004516000.1	Scaffold564	3390	AA	GG	1946959910
SNP_P4_134940_3440	NW_004516000.1	Scaffold564	3440	CC	TT	1946959912
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SNP_P4_134942_3449	NW_004516000.1	Scaffold564	3449	TT	GG	1946959916
SNP_P4_134943_3468	NW_004516000.1	Scaffold564	3468	TT	CC	1946959918
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SNP_P4_134945_3541	NW_004516000.1	Scaffold564	3541	CC	GG	1946959922
SNP_P4_134946_3586	NW_004516000.1	Scaffold564	3586	GG	AA	1946959924
SNP_P4_134947_3722	NW_004516000.1	Scaffold564	3722	AA	GG	1946959926
SNP_P4_134948_3770	NW_004516000.1	Scaffold564	3770	CC	TT	1946959928
SNP_P4_134949_3943	NW_004516000.1	Scaffold564	3943	GG	CC	1946959930
SNP_P4_134950_3991	NW_004516000.1	Scaffold564	3991	AA	CC	1946959932
SNP_P4_134951_4137	NW_004516000.1	Scaffold564	4137	TT	CC	1946959934
SNP_P4_134952_4790	NW_004516000.1	Scaffold564	4790	TT	GG	1946959936

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_134954_4873	NW_004516000.1	Scaffold564	4873	AA	GG	1946959940
SNP_P4_134955_4940	NW_004516000.1	Scaffold564	4940	AA	TT	1946959942
SNP_P4_134957_5084	NW_004516000.1	Scaffold564	5084	CC	TT	1946959944
SNP_P4_134958_5104	NW_004516000.1	Scaffold564	5104	TT	AA	1946959946
SNP_P4_134959_5105	NW_004516000.1	Scaffold564	5105	TT	AA	1946959948
SNP_P4_134960_5108	NW_004516000.1	Scaffold564	5108	TT	CC	1946959950
SNP_P4_134961_5127	NW_004516000.1	Scaffold564	5127	TT	AA	1946959952
SNP_P4_134962_5186	NW_004516000.1	Scaffold564	5186	CC	TT	1946959955
SNP_P4_134964_5299	NW_004516000.1	Scaffold564	5299	AA	TT	1946959957
SNP_P4_134965_5314	NW_004516000.1	Scaffold564	5314	AA	CC	1946959959
SNP_P4_134966_5401	NW_004516000.1	Scaffold564	5401	GG	TT	1946959961
SNP_P4_134967_5451	NW_004516000.1	Scaffold564	5451	TT	CC	1946959963
SNP_P4_134968_5539	NW_004516000.1	Scaffold564	5539	GG	AA	1946959965
SNP_P4_134969_5758	NW_004516000.1	Scaffold564	5758	AA	GG	1946959967
SNP_P4_134970_5850	NW_004516000.1	Scaffold564	5850	TT	CC	1946959969
SNP_P4_134971_6018	NW_004516000.1	Scaffold564	6018	TT	GG	1946959971
SNP_P4_134972_6175	NW_004516000.1	Scaffold564	6175	TT	AA	1946959973
SNP_P4_134973_6190	NW_004516000.1	Scaffold564	6190	TT	GG	1946959975
SNP_P4_134974_6195	NW_004516000.1	Scaffold564	6195	GG	CC	1946959977
SNP_P4_134975_7199	NW_004516000.1	Scaffold564	7199	AA	TT	1946959979
SNP_P4_134976_7237	NW_004516000.1	Scaffold564	7237	AA	GG	1946959981
SNP_P4_134977_7275	NW_004516000.1	Scaffold564	7275	TT	CC	1946959983
SNP_P4_134978_7367	NW_004516000.1	Scaffold564	7367	GG	AA	1946959985
SNP_P4_134979_7384	NW_004516000.1	Scaffold564	7384	AA	CC	1946959987
SNP_P4_134980_7402	NW_004516000.1	Scaffold564	7402	TT	CC	1946959989
SNP_P4_134981_7420	NW_004516000.1	Scaffold564	7420	CC	GG	1946959991
SNP_P4_134982_7447	NW_004516000.1	Scaffold564	7447	AA	GG	1946959992
SNP_P4_134983_7580	NW_004516000.1	Scaffold564	7580	AA	TT	1946959994
SNP_P4_134984_7617	NW_004516000.1	Scaffold564	7617	TT	AA	1946959996
SNP_P4_134985_8223	NW_004516000.1	Scaffold564	8223	TT	CC	1946959998
SNP_P4_134986_8228	NW_004516000.1	Scaffold564	8228	GG	AA	1946960000
SNP_P4_134987_8270	NW_004516000.1	Scaffold564	8270	AA	GG	1946960002
SNP_P4_134989_8416	NW_004516000.1	Scaffold564	8416	CC	AA	1946960004
SNP_P4_134990_8417	NW_004516000.1	Scaffold564	8417	AA	CC	1946960006
SNP_P4_134991_8541	NW_004516000.1	Scaffold564	8541	AA	TT	1946960008
SNP_P4_134992_8545	NW_004516000.1	Scaffold564	8545	AA	CC	1946960010
SNP_P4_134993_8568	NW_004516000.1	Scaffold564	8568	TT	CC	1946960012
SNP_P4_134994_8801	NW_004516000.1	Scaffold564	8801	AA	GG	1946960014
SNP_P4_134995_9057	NW_004516000.1	Scaffold564	9057	CC	TT	1946960016
SNP_P4_134996_9386	NW_004516000.1	Scaffold564	9386	CC	TT	1946960018
SNP_P4_134997_10285	NW_004516000.1	Scaffold564	10285	AA	GG	1946960020

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_134999_10341	NW_004516000.1	Scaffold564	10341	GG	AA	1946960024
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SNP_P4_135001_10546	NW_004516000.1	Scaffold564	10546	GG	AA	1946960028
SNP_P4_135002_10885	NW_004516000.1	Scaffold564	10885	CC	TT	1946960030
SNP_P4_135003_11067	NW_004516000.1	Scaffold564	11067	GG	CC	1946960032
SNP_P4_135004_11095	NW_004516000.1	Scaffold564	11095	AA	CC	1946960033
SNP_P4_135005_11161	NW_004516000.1	Scaffold564	11161	CC	TT	1946960035
SNP_P4_135006_11342	NW_004516000.1	Scaffold564	11342	GG	AA	1946960037
SNP_P4_135007_11347	NW_004516000.1	Scaffold564	11347	GG	TT	1946960039
SNP_P4_135008_11684	NW_004516000.1	Scaffold564	11684	GG	AA	1946960041
SNP_P4_135009_11730	NW_004516000.1	Scaffold564	11730	GG	CC	1946960043
SNP_P4_135010_11904	NW_004516000.1	Scaffold564	11904	TT	CC	1946960045
SNP_P4_135012_12317	NW_004516000.1	Scaffold564	12317	CC	TT	1946960047
SNP_P4_135013_12363	NW_004516000.1	Scaffold564	12363	CC	AA	1946960049
SNP_P4_135014_12612	NW_004516000.1	Scaffold564	12612	GG	AA	1946960051
SNP_P4_135015_12642	NW_004516000.1	Scaffold564	12642	TT	GG	1946960052
SNP_P4_135016_12770	NW_004516000.1	Scaffold564	12770	TT	GG	1946960054
SNP_P4_135017_12831	NW_004516000.1	Scaffold564	12831	AA	CC	1946960056
SNP_P4_135018_12928	NW_004516000.1	Scaffold564	12928	AA	GG	1946960058
SNP_P4_135019_13386	NW_004516000.1	Scaffold564	13386	CC	TT	1946960060
SNP_P4_135020_13521	NW_004516000.1	Scaffold564	13521	TT	CC	1946960062
SNP_P4_135021_13580	NW_004516000.1	Scaffold564	13580	AA	GG	1946960064
SNP_P4_135022_13934	NW_004516000.1	Scaffold564	13934	TT	AA	1946960066
SNP_P4_135023_14168	NW_004516000.1	Scaffold564	14168	GG	AA	1946960068
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SNP_P4_135028_15306	NW_004516000.1	Scaffold564	15306	CC	TT	1946960073
SNP_P4_135029_15450	NW_004516000.1	Scaffold564	15450	AA	TT	1946960075
SNP_P4_135030_15525	NW_004516000.1	Scaffold564	15525	AA	CC	1946960077
SNP_P4_135031_17933	NW_004516000.1	Scaffold564	17933	AA	TT	1946960079
SNP_P4_135032_21023	NW_004516000.1	Scaffold564	21023	CC	TT	1946960081
SNP_P4_135033_21511	NW_004516000.1	Scaffold564	21511	CC	TT	1946960083
SNP_P4_135034_23248	NW_004516000.1	Scaffold564	23248	AA	CC	1946960085
SNP_P4_135035_23323	NW_004516000.1	Scaffold564	23323	AA	GG	1946960087
SNP_P4_135036_23599	NW_004516000.1	Scaffold564	23599	AA	GG	1946960089
SNP_P4_135037_23617	NW_004516000.1	Scaffold564	23617	AA	TT	1946960091
SNP_P4_135038_23687	NW_004516000.1	Scaffold564	23687	AA	GG	1946960093
SNP_P4_135039_24219	NW_004516000.1	Scaffold564	24219	GG	AA	1946960095
SNP_P4_135040_25801	NW_004516000.1	Scaffold564	25801	GG	CC	1946960097
SNP_P4_135041_25890	NW_004516000.1	Scaffold564	25890	GG	AA	1946960099
SNP_P4_135042_25896	NW_004516000.1	Scaffold564	25896	TT	GG	1946960101

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_135049_26444	NW_004516000.1	Scaffold564	26444	AA	TT	1946960111
SNP_P4_135050_26504	NW_004516000.1	Scaffold564	26504	CC	TT	1946960113
SNP_P4_135051_26694	NW_004516000.1	Scaffold564	26694	CC	TT	1946960115
SNP_P4_135052_30151	NW_004516000.1	Scaffold564	30151	TT	CC	1946960117
SNP_P4_135053_64	NW_004516001.1	Scaffold566	64	AA	GG	1946960119
SNP_P4_135054_65	NW_004516001.1	Scaffold566	65	AA	GG	1946960121
SNP_P4_135055_3775	NW_004516002.1	Scaffold568	3775	CC	GG	1946960122
SNP_P4_135056_3960	NW_004516002.1	Scaffold568	3960	TT	CC	1946960124
SNP_P4_135057_4106	NW_004516002.1	Scaffold568	4106	GG	TT	1946960126
SNP_P4_135058_4170	NW_004516002.1	Scaffold568	4170	TT	CC	1946960128
SNP_P4_135059_4393	NW_004516002.1	Scaffold568	4393	GG	AA	1946960130
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SNP_P4_135075_7253	NW_004516002.1	Scaffold568	7253	AA	GG	1946960162
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SNP_P4_135077_9569	NW_004516002.1	Scaffold568	9569	CC	GG	1946960164
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SNP_P4_135081_12131	NW_004516002.1	Scaffold568	12131	AA	GG	1946960168
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SNP_P4_135084_12941	NW_004516002.1	Scaffold568	12941	AA	CC	1946960174
SNP_P4_135085_15804	NW_004516002.1	Scaffold568	15804	TT	GG	1946960176
SNP_P4_135086_15826	NW_004516002.1	Scaffold568	15826	TT	GG	1946960178

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_135089_18049	NW_004516002.1	Scaffold568	18049	TT	CC	1946960184
SNP_P4_135090_18292	NW_004516002.1	Scaffold568	18292	AA	TT	1946960186
SNP_P4_135091_18355	NW_004516002.1	Scaffold568	18355	GG	AA	1946960188
SNP_P4_135092_18620	NW_004516002.1	Scaffold568	18620	AA	TT	1946960190
SNP_P4_135093_18686	NW_004516002.1	Scaffold568	18686	TT	CC	1946960192
SNP_P4_135094_19486	NW_004516002.1	Scaffold568	19486	CC	GG	1946960194
SNP_P4_135096_19571	NW_004516002.1	Scaffold568	19571	TT	AA	1946960196
SNP_P4_135097_19776	NW_004516002.1	Scaffold568	19776	GG	TT	1946960198
SNP_P4_135098_19797	NW_004516002.1	Scaffold568	19797	AA	TT	1946960200
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SNP_P4_135102_29026	NW_004516002.1	Scaffold568	29026	CC	GG	1946960206
SNP_P4_135103_29049	NW_004516002.1	Scaffold568	29049	GG	CC	1946960208
SNP_P4_135104_29503	NW_004516002.1	Scaffold568	29503	TT	CC	1946960209
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SNP_P4_135107_31985	NW_004516002.1	Scaffold568	31985	CC	GG	1946960215
SNP_P4_135108_32005	NW_004516002.1	Scaffold568	32005	AA	TT	1946960217
SNP_P4_135109_32026	NW_004516002.1	Scaffold568	32026	GG	AA	1946960219
SNP_P4_135110_32047	NW_004516002.1	Scaffold568	32047	TT	GG	1946960221
SNP_P4_135111_32216	NW_004516002.1	Scaffold568	32216	GG	CC	1946960223
SNP_P4_135112_32316	NW_004516002.1	Scaffold568	32316	GG	CC	1946960225
SNP_P4_135113_32371	NW_004516002.1	Scaffold568	32371	TT	CC	1946960226
SNP_P4_135114_32658	NW_004516002.1	Scaffold568	32658	TT	AA	1946960227
SNP_P4_135115_32680	NW_004516002.1	Scaffold568	32680	TT	CC	1946960228
SNP_P4_135116_34465	NW_004516002.1	Scaffold568	34465	GG	AA	1946960229
SNP_P4_135117_34505	NW_004516002.1	Scaffold568	34505	CC	GG	1946960230
SNP_P4_135118_34506	NW_004516002.1	Scaffold568	34506	AA	GG	1946960231
SNP_P4_135119_34730	NW_004516002.1	Scaffold568	34730	AA	GG	1946960233
SNP_P4_135120_34740	NW_004516002.1	Scaffold568	34740	GG	CC	1946960235
SNP_P4_135121_34875	NW_004516002.1	Scaffold568	34875	AA	GG	1946960237
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SNP_P4_135124_34987	NW_004516002.1	Scaffold568	34987	GG	CC	1946960243
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SNP_P4_135126_35001	NW_004516002.1	Scaffold568	35001	GG	AA	1946960247
SNP_P4_135127_35691	NW_004516002.1	Scaffold568	35691	TT	CC	1946960249
SNP_P4_135128_35696	NW_004516002.1	Scaffold568	35696	TT	CC	1946960251
SNP_P4_135129_36083	NW_004516002.1	Scaffold568	36083	GG	AA	1946960253
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_135132_36997	NW_004516002.1	Scaffold568	36997	TT	CC	1946960259
SNP_P4_135133_37024	NW_004516002.1	Scaffold568	37024	CC	AA	1946960261
SNP_P4_135134_37313	NW_004516002.1	Scaffold568	37313	AA	TT	1946960263
SNP_P4_135135_37356	NW_004516002.1	Scaffold568	37356	CC	TT	1946960265
SNP_P4_135136_38028	NW_004516002.1	Scaffold568	38028	TT	AA	1946960267
SNP_P4_135137_38058	NW_004516002.1	Scaffold568	38058	TT	AA	1946960269
SNP_P4_135138_1682	NW_004516004.1	Scaffold571	1682	TT	CC	1946960271
SNP_P4_135139_11784	NW_004516004.1	Scaffold571	11784	AA	CC	1946960273
SNP_P4_135140_11794	NW_004516004.1	Scaffold571	11794	GG	TT	1946960275
SNP_P4_135141_11833	NW_004516004.1	Scaffold571	11833	AA	TT	1946960277
SNP_P4_135142_11845	NW_004516004.1	Scaffold571	11845	AA	CC	1946960279
SNP_P4_135143_11851	NW_004516004.1	Scaffold571	11851	TT	CC	1946960281
SNP_P4_135145_11918	NW_004516004.1	Scaffold571	11918	AA	GG	1946960283
SNP_P4_135146_11924	NW_004516004.1	Scaffold571	11924	GG	AA	1946960285
SNP_P4_135147_11988	NW_004516004.1	Scaffold571	11988	AA	CC	1946960287
SNP_P4_135148_12201	NW_004516004.1	Scaffold571	12201	CC	TT	1946960289
SNP_P4_135149_12235	NW_004516004.1	Scaffold571	12235	CC	AA	1946960291
SNP_P4_135150_12431	NW_004516004.1	Scaffold571	12431	CC	TT	1946960293
SNP_P4_135151_17812	NW_004516004.1	Scaffold571	17812	TT	CC	1946960295
SNP_P4_135152_17845	NW_004516004.1	Scaffold571	17845	TT	AA	1946960297
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SNP_P4_135155_18118	NW_004516004.1	Scaffold571	18118	GG	AA	1946960303
SNP_P4_135157_18182	NW_004516004.1	Scaffold571	18182	CC	TT	1946960305
SNP_P4_135158_18302	NW_004516004.1	Scaffold571	18302	CC	TT	1946960307
SNP_P4_135159_18371	NW_004516004.1	Scaffold571	18371	AA	TT	1946960309
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SNP_P4_135161_25208	NW_004516004.1	Scaffold571	25208	TT	CC	1946960313
SNP_P4_135162_26397	NW_004516004.1	Scaffold571	26397	AA	TT	1946960315
SNP_P4_135163_26933	NW_004516004.1	Scaffold571	26933	AA	GG	1946960317
SNP_P4_135164_31157	NW_004516004.1	Scaffold571	31157	CC	TT	1946960319
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SNP_P4_135166_31199	NW_004516004.1	Scaffold571	31199	GG	TT	1946960323
SNP_P4_135167_31442	NW_004516004.1	Scaffold571	31442	CC	GG	1946960325
SNP_P4_135168_31450	NW_004516004.1	Scaffold571	31450	GG	CC	1946960327
SNP_P4_135169_31457	NW_004516004.1	Scaffold571	31457	TT	CC	1946960329
SNP_P4_135170_31477	NW_004516004.1	Scaffold571	31477	TT	CC	1946960331
SNP_P4_135171_31487	NW_004516004.1	Scaffold571	31487	TT	AA	1946960333
SNP_P4_135172_31500	NW_004516004.1	Scaffold571	31500	GG	AA	1946960335
SNP_P4_135173_31512	NW_004516004.1	Scaffold571	31512	AA	TT	1946960337
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_135176_37916	NW_004516004.1	Scaffold571	37916	CC	TT	1946960343
SNP_P4_135177_40583	NW_004516004.1	Scaffold571	40583	GG	AA	1946960345
SNP_P4_135178_40786	NW_004516004.1	Scaffold571	40786	GG	AA	1946960347
SNP_P4_135179_40825	NW_004516004.1	Scaffold571	40825	GG	TT	1946960349
SNP_P4_135180_40857	NW_004516004.1	Scaffold571	40857	TT	CC	1946960351
SNP_P4_135181_40858	NW_004516004.1	Scaffold571	40858	CC	TT	1946960353
SNP_P4_135182_40922	NW_004516004.1	Scaffold571	40922	AA	GG	1946960355
SNP_P4_135183_41058	NW_004516004.1	Scaffold571	41058	TT	AA	1946960357
SNP_P4_135184_41171	NW_004516004.1	Scaffold571	41171	CC	TT	1946960359
SNP_P4_135185_41244	NW_004516004.1	Scaffold571	41244	GG	TT	1946960361
SNP_P4_135186_47887	NW_004516004.1	Scaffold571	47887	AA	TT	1946960363
SNP_P4_135187_53868	NW_004516004.1	Scaffold571	53868	AA	GG	1946960365
SNP_P4_135188_53975	NW_004516004.1	Scaffold571	53975	AA	GG	1946960367
SNP_P4_135189_62585	NW_004516004.1	Scaffold571	62585	AA	CC	1946960369
SNP_P4_135190_62673	NW_004516004.1	Scaffold571	62673	AA	TT	1946960371
SNP_P4_135191_62680	NW_004516004.1	Scaffold571	62680	AA	CC	1946960373
SNP_P4_135192_62711	NW_004516004.1	Scaffold571	62711	CC	TT	1946960375
SNP_P4_135193_62736	NW_004516004.1	Scaffold571	62736	AA	GG	1946960377
SNP_P4_135194_62782	NW_004516004.1	Scaffold571	62782	CC	TT	1946960379
SNP_P4_135195_62950	NW_004516004.1	Scaffold571	62950	TT	GG	1946960381
SNP_P4_135196_63088	NW_004516004.1	Scaffold571	63088	GG	AA	1946960383
SNP_P4_135197_69120	NW_004516004.1	Scaffold571	69120	GG	TT	1946960385
SNP_P4_135199_80950	NW_004516004.1	Scaffold571	80950	AA	GG	1946960387
SNP_P4_135200_85776	NW_004516004.1	Scaffold571	85776	AA	GG	1946960389
SNP_P4_135201_92652	NW_004516004.1	Scaffold571	92652	CC	TT	1946960390
SNP_P4_135202_105566	NW_004516004.1	Scaffold571	105566	CC	TT	1946960392
SNP_P4_135203_123505	NW_004516004.1	Scaffold571	123505	AA	TT	1946960394
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SNP_P4_135205_695	NW_004516006.1	Scaffold573	695	AA	GG	1946960398
SNP_P4_135206_24683	NW_004516007.1	Scaffold574	24683	TT	CC	1946960400
SNP_P4_135207_31995	NW_004516007.1	Scaffold574	31995	CC	TT	1946960402
SNP_P4_135208_32234	NW_004516007.1	Scaffold574	32234	TT	CC	1946960404
SNP_P4_135209_32235	NW_004516007.1	Scaffold574	32235	TT	CC	1946960406
SNP_P4_135210_32250	NW_004516007.1	Scaffold574	32250	GG	TT	1946960408
SNP_P4_135211_32254	NW_004516007.1	Scaffold574	32254	CC	GG	1946960410
SNP_P4_135212_32327	NW_004516007.1	Scaffold574	32327	GG	TT	1946960412
SNP_P4_135213_79758	NW_004516007.1	Scaffold574	79758	CC	TT	1946960414
SNP_P4_135214_79824	NW_004516007.1	Scaffold574	79824	CC	TT	1946960416
SNP_P4_135215_80166	NW_004516007.1	Scaffold574	80166	AA	GG	1946960418
SNP_P4_135216_80297	NW_004516007.1	Scaffold574	80297	GG	CC	1946960420
SNP_P4_135217_80298	NW_004516007.1	Scaffold574	80298	TT	AA	1946960423

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_135219_93823	NW_004516007.1	Scaffold574	93823	AA	TT	1946960427
SNP_P4_135220_94506	NW_004516007.1	Scaffold574	94506	AA	GG	1946960429
SNP_P4_135221_94518	NW_004516007.1	Scaffold574	94518	AA	GG	1946960431
SNP_P4_135222_94519	NW_004516007.1	Scaffold574	94519	CC	TT	1946960433
SNP_P4_135223_94530	NW_004516007.1	Scaffold574	94530	GG	TT	1946960435
SNP_P4_135224_94532	NW_004516007.1	Scaffold574	94532	TT	AA	1946960437
SNP_P4_135226_47286	NW_004516008.1	Scaffold575	47286	TT	CC	1946960439
SNP_P4_135227_47707	NW_004516008.1	Scaffold575	47707	AA	GG	1946960441
SNP_P4_135228_47775	NW_004516008.1	Scaffold575	47775	TT	CC	1946960443
SNP_P4_135229_48089	NW_004516008.1	Scaffold575	48089	AA	CC	1946960445
SNP_P4_135230_64946	NW_004516008.1	Scaffold575	64946	AA	GG	1946960447
SNP_P4_135231_65002	NW_004516008.1	Scaffold575	65002	GG	AA	1946960449
SNP_P4_135232_65101	NW_004516008.1	Scaffold575	65101	GG	TT	1946960451
SNP_P4_135234_65168	NW_004516008.1	Scaffold575	65168	GG	AA	1946960453
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SNP_P4_135259_66697	NW_004516008.1	Scaffold575	66697	TT	CC	1946960503
SNP_P4_135260_66729	NW_004516008.1	Scaffold575	66729	AA	GG	1946960505
SNP_P4_135261_66764	NW_004516008.1	Scaffold575	66764	TT	CC	1946960507

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_135264_66864	NW_004516008.1	Scaffold575	66864	GG	AA	1946960511
SNP_P4_135266_67047	NW_004516008.1	Scaffold575	67047	TT	GG	1946960513
SNP_P4_135267_67272	NW_004516008.1	Scaffold575	67272	TT	GG	1946960515
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SNP_P4_135269_67327	NW_004516008.1	Scaffold575	67327	TT	CC	1946960519
SNP_P4_135270_67333	NW_004516008.1	Scaffold575	67333	GG	TT	1946960521
SNP_P4_135271_67580	NW_004516008.1	Scaffold575	67580	GG	TT	1946960523
SNP_P4_135272_67611	NW_004516008.1	Scaffold575	67611	TT	CC	1946960525
SNP_P4_135273_67617	NW_004516008.1	Scaffold575	67617	GG	TT	1946960527
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SNP_P4_135276_67724	NW_004516008.1	Scaffold575	67724	CC	TT	1946960533
SNP_P4_135277_67751	NW_004516008.1	Scaffold575	67751	TT	AA	1946960535
SNP_P4_135278_67766	NW_004516008.1	Scaffold575	67766	AA	GG	1946960537
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SNP_P4_135284_68048	NW_004516008.1	Scaffold575	68048	CC	AA	1946960547
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SNP_P4_135298_71665	NW_004516008.1	Scaffold575	71665	GG	AA	1946960576
SNP_P4_135299_71923	NW_004516008.1	Scaffold575	71923	GG	AA	1946960578
SNP_P4_135300_73493	NW_004516008.1	Scaffold575	73493	AA	CC	1946960580
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SNP_P4_135302_73940	NW_004516008.1	Scaffold575	73940	GG	TT	1946960584
SNP_P4_135303_73992	NW_004516008.1	Scaffold575	73992	TT	CC	1946960586
SNP_P4_135304_74097	NW_004516008.1	Scaffold575	74097	CC	GG	1946960588
SNP_P4_135305_74393	NW_004516008.1	Scaffold575	74393	CC	AA	1946960590
SNP_P4_135306_80327	NW_004516008.1	Scaffold575	80327	TT	CC	1946960592

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_135308_80649	NW_004516008.1	Scaffold575	80649	CC	AA	1946960596
SNP_P4_135309_80672	NW_004516008.1	Scaffold575	80672	GG	TT	1946960598
SNP_P4_135310_80763	NW_004516008.1	Scaffold575	80763	CC	TT	1946960600
SNP_P4_135311_82372	NW_004516008.1	Scaffold575	82372	GG	AA	1946960602
SNP_P4_135312_82389	NW_004516008.1	Scaffold575	82389	GG	AA	1946960604
SNP_P4_135313_82540	NW_004516008.1	Scaffold575	82540	GG	AA	1946960606
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SNP_P4_135316_82655	NW_004516008.1	Scaffold575	82655	CC	TT	1946960610
SNP_P4_135317_82667	NW_004516008.1	Scaffold575	82667	AA	GG	1946960612
SNP_P4_135318_82772	NW_004516008.1	Scaffold575	82772	AA	GG	1946960614
SNP_P4_135319_82776	NW_004516008.1	Scaffold575	82776	CC	GG	1946960616
SNP_P4_135320_82786	NW_004516008.1	Scaffold575	82786	AA	TT	1946960618
SNP_P4_135321_82789	NW_004516008.1	Scaffold575	82789	AA	GG	1946960620
SNP_P4_135322_82882	NW_004516008.1	Scaffold575	82882	TT	GG	1946960622
SNP_P4_135324_82973	NW_004516008.1	Scaffold575	82973	AA	TT	1946960624
SNP_P4_135325_83080	NW_004516008.1	Scaffold575	83080	AA	GG	1946960626
SNP_P4_135326_83081	NW_004516008.1	Scaffold575	83081	AA	GG	1946960628
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SNP_P4_135328_89854	NW_004516008.1	Scaffold575	89854	TT	CC	1946960632
SNP_P4_135329_89883	NW_004516008.1	Scaffold575	89883	TT	GG	1946960634
SNP_P4_135330_89903	NW_004516008.1	Scaffold575	89903	TT	AA	1946960636
SNP_P4_135332_89974	NW_004516008.1	Scaffold575	89974	CC	TT	1946960638
SNP_P4_135333_90078	NW_004516008.1	Scaffold575	90078	AA	TT	1946960640
SNP_P4_135334_90084	NW_004516008.1	Scaffold575	90084	GG	AA	1946960642
SNP_P4_135335_90115	NW_004516008.1	Scaffold575	90115	TT	GG	1946960644
SNP_P4_135336_90151	NW_004516008.1	Scaffold575	90151	TT	CC	1946960646
SNP_P4_135338_90365	NW_004516008.1	Scaffold575	90365	TT	CC	1946960648
SNP_P4_135339_90491	NW_004516008.1	Scaffold575	90491	TT	CC	1946960650
SNP_P4_135341_90926	NW_004516008.1	Scaffold575	90926	GG	AA	1946960652
SNP_P4_135342_90959	NW_004516008.1	Scaffold575	90959	TT	AA	1946960654
SNP_P4_135344_91159	NW_004516008.1	Scaffold575	91159	GG	AA	1946960656
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SNP_P4_135346_91247	NW_004516008.1	Scaffold575	91247	TT	AA	1946960660
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SNP_P4_135351_92155	NW_004516008.1	Scaffold575	92155	AA	GG	1946960668
SNP_P4_135352_92157	NW_004516008.1	Scaffold575	92157	AA	GG	1946960670
SNP_P4_135353_92163	NW_004516008.1	Scaffold575	92163	TT	GG	1946960672
SNP_P4_135354_92184	NW_004516008.1	Scaffold575	92184	GG	CC	1946960674
SNP_P4_135355_92187	NW_004516008.1	Scaffold575	92187	CC	AA	1946960675

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_135358_92242	NW_004516008.1	Scaffold575	92242	AA	GG	1946960681
SNP_P4_135359_92255	NW_004516008.1	Scaffold575	92255	CC	TT	1946960683
SNP_P4_135360_92748	NW_004516008.1	Scaffold575	92748	TT	GG	1946960685
SNP_P4_135361_92798	NW_004516008.1	Scaffold575	92798	AA	TT	1946960687
SNP_P4_135362_92804	NW_004516008.1	Scaffold575	92804	TT	CC	1946960689
SNP_P4_135363_92840	NW_004516008.1	Scaffold575	92840	TT	CC	1946960691
SNP_P4_135364_92864	NW_004516008.1	Scaffold575	92864	TT	GG	1946960693
SNP_P4_135366_92982	NW_004516008.1	Scaffold575	92982	GG	TT	1946960695
SNP_P4_135367_92985	NW_004516008.1	Scaffold575	92985	TT	CC	1946960696
SNP_P4_135368_92998	NW_004516008.1	Scaffold575	92998	AA	GG	1946960697
SNP_P4_135369_92999	NW_004516008.1	Scaffold575	92999	TT	CC	1946960698
SNP_P4_135370_93012	NW_004516008.1	Scaffold575	93012	TT	CC	1946960699
SNP_P4_135371_93030	NW_004516008.1	Scaffold575	93030	AA	GG	1946960700
SNP_P4_135372_96165	NW_004516008.1	Scaffold575	96165	TT	CC	1946960701
SNP_P4_135373_96180	NW_004516008.1	Scaffold575	96180	CC	TT	1946960702
SNP_P4_135374_96193	NW_004516008.1	Scaffold575	96193	CC	TT	1946960703
SNP_P4_135375_96353	NW_004516008.1	Scaffold575	96353	CC	TT	1946960704
SNP_P4_135376_96361	NW_004516008.1	Scaffold575	96361	CC	TT	1946960705
SNP_P4_135377_96366	NW_004516008.1	Scaffold575	96366	GG	AA	1946960706
SNP_P4_135378_96400	NW_004516008.1	Scaffold575	96400	GG	AA	1946960707
SNP_P4_135379_96430	NW_004516008.1	Scaffold575	96430	CC	AA	1946960708
SNP_P4_135380_96561	NW_004516008.1	Scaffold575	96561	AA	CC	1946960709
SNP_P4_135381_96575	NW_004516008.1	Scaffold575	96575	AA	GG	1946960710
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SNP_P4_135384_98491	NW_004516008.1	Scaffold575	98491	GG	AA	1946960712
SNP_P4_135385_98557	NW_004516008.1	Scaffold575	98557	CC	TT	1946960713
SNP_P4_135386_98560	NW_004516008.1	Scaffold575	98560	GG	TT	1946960714
SNP_P4_135387_98598	NW_004516008.1	Scaffold575	98598	TT	GG	1946960715
SNP_P4_135388_98610	NW_004516008.1	Scaffold575	98610	AA	GG	1946960716
SNP_P4_135389_98683	NW_004516008.1	Scaffold575	98683	TT	CC	1946960717
SNP_P4_135390_98734	NW_004516008.1	Scaffold575	98734	GG	AA	1946960718
SNP_P4_135391_98754	NW_004516008.1	Scaffold575	98754	AA	GG	1946960719
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SNP_P4_135394_98901	NW_004516008.1	Scaffold575	98901	AA	GG	1946960721
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SNP_P4_135397_98930	NW_004516008.1	Scaffold575	98930	CC	TT	1946960723
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SNP_P4_135399_99040	NW_004516008.1	Scaffold575	99040	AA	GG	1946960725
SNP_P4_135400_99119	NW_004516008.1	Scaffold575	99119	TT	AA	1946960726
SNP_P4_135401_99120	NW_004516008.1	Scaffold575	99120	TT	GG	1946960727

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_135402_99124	NW_004516008.1	Scaffold575	99124	AA	CC	1946960728
SNP_P4_135403_99129	NW_004516008.1	Scaffold575	99129	TT	CC	1946960729
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SNP_P4_135409_99205	NW_004516008.1	Scaffold575	99205	AA	GG	1946960734
SNP_P4_135410_99320	NW_004516008.1	Scaffold575	99320	AA	GG	1946960735
SNP_P4_135412_99375	NW_004516008.1	Scaffold575	99375	AA	GG	1946960736
SNP_P4_135413_99378	NW_004516008.1	Scaffold575	99378	CC	TT	1946960737
SNP_P4_135414_99447	NW_004516008.1	Scaffold575	99447	CC	AA	1946960738
SNP_P4_135415_99449	NW_004516008.1	Scaffold575	99449	GG	AA	1946960739
SNP_P4_135416_99481	NW_004516008.1	Scaffold575	99481	GG	TT	1946960740
SNP_P4_135417_99483	NW_004516008.1	Scaffold575	99483	AA	TT	1946960741
SNP_P4_135418_99494	NW_004516008.1	Scaffold575	99494	AA	GG	1946960742
SNP_P4_135420_99728	NW_004516008.1	Scaffold575	99728	AA	GG	1946960743
SNP_P4_135421_99762	NW_004516008.1	Scaffold575	99762	GG	CC	1946960744
SNP_P4_135422_99766	NW_004516008.1	Scaffold575	99766	TT	CC	1946960745
SNP_P4_135423_99809	NW_004516008.1	Scaffold575	99809	AA	GG	1946960746
SNP_P4_135424_99810	NW_004516008.1	Scaffold575	99810	AA	GG	1946960747
SNP_P4_135425_99825	NW_004516008.1	Scaffold575	99825	AA	GG	1946960748
SNP_P4_135426_99867	NW_004516008.1	Scaffold575	99867	GG	AA	1946960749
SNP_P4_135427_99882	NW_004516008.1	Scaffold575	99882	AA	CC	1946960750
SNP_P4_135428_99924	NW_004516008.1	Scaffold575	99924	TT	GG	1946960751
SNP_P4_135429_99925	NW_004516008.1	Scaffold575	99925	AA	CC	1946960752
SNP_P4_135430_99955	NW_004516008.1	Scaffold575	99955	CC	TT	1946960753
SNP_P4_135431_99959	NW_004516008.1	Scaffold575	99959	AA	GG	1946960754
SNP_P4_135432_99980	NW_004516008.1	Scaffold575	99980	TT	AA	1946960755
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SNP_P4_135434_100023	NW_004516008.1	Scaffold575	100023	AA	GG	1946960757
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SNP_P4_135437_100175	NW_004516008.1	Scaffold575	100175	AA	GG	1946960760
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SNP_P4_135439_100197	NW_004516008.1	Scaffold575	100197	TT	CC	1946960762
SNP_P4_135440_100200	NW_004516008.1	Scaffold575	100200	AA	GG	1946960763
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SNP_P4_135443_100297	NW_004516008.1	Scaffold575	100297	AA	CC	1946960766
SNP_P4_135444_100353	NW_004516008.1	Scaffold575	100353	TT	GG	1946960767
SNP_P4_135445_100391	NW_004516008.1	Scaffold575	100391	AA	CC	1946960768
SNP_P4_135447_100481	NW_004516008.1	Scaffold575	100481	TT	CC	1946960769

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_135449_100576	NW_004516008.1	Scaffold575	100576	GG	AA	1946960771
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SNP_P4_135451_100611	NW_004516008.1	Scaffold575	100611	TT	GG	1946960773
SNP_P4_135452_100619	NW_004516008.1	Scaffold575	100619	TT	GG	1946960774
SNP_P4_135453_100632	NW_004516008.1	Scaffold575	100632	AA	GG	1946960775
SNP_P4_135454_100639	NW_004516008.1	Scaffold575	100639	AA	GG	1946960776
SNP_P4_135455_100648	NW_004516008.1	Scaffold575	100648	AA	GG	1946960777
SNP_P4_135456_100709	NW_004516008.1	Scaffold575	100709	CC	AA	1946960778
SNP_P4_135457_100983	NW_004516008.1	Scaffold575	100983	AA	GG	1946960779
SNP_P4_135458_101000	NW_004516008.1	Scaffold575	101000	AA	CC	1946960780
SNP_P4_135459_101011	NW_004516008.1	Scaffold575	101011	AA	GG	1946960781
SNP_P4_135460_101032	NW_004516008.1	Scaffold575	101032	TT	CC	1946960782
SNP_P4_135461_101056	NW_004516008.1	Scaffold575	101056	TT	AA	1946960783
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SNP_P4_135476_101565	NW_004516008.1	Scaffold575	101565	TT	AA	1946960798
SNP_P4_135477_101586	NW_004516008.1	Scaffold575	101586	AA	GG	1946960799
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SNP_P4_135481_101643	NW_004516008.1	Scaffold575	101643	TT	GG	1946960805
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SNP_P4_135484_101718	NW_004516008.1	Scaffold575	101718	TT	CC	1946960811
SNP_P4_135485_101737	NW_004516008.1	Scaffold575	101737	TT	GG	1946960813
SNP_P4_135486_101744	NW_004516008.1	Scaffold575	101744	AA	GG	1946960815
SNP_P4_135487_101755	NW_004516008.1	Scaffold575	101755	TT	CC	1946960817
SNP_P4_135488_101760	NW_004516008.1	Scaffold575	101760	TT	CC	1946960819
SNP_P4_135489_101836	NW_004516008.1	Scaffold575	101836	TT	CC	1946960821

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_135492_102097	NW_004516008.1	Scaffold575	102097	TT	CC	1946960827
SNP_P4_135493_102108	NW_004516008.1	Scaffold575	102108	TT	GG	1946960829
SNP_P4_135494_102122	NW_004516008.1	Scaffold575	102122	GG	AA	1946960831
SNP_P4_135495_102155	NW_004516008.1	Scaffold575	102155	GG	CC	1946960833
SNP_P4_135496_102204	NW_004516008.1	Scaffold575	102204	TT	GG	1946960835
SNP_P4_135497_102213	NW_004516008.1	Scaffold575	102213	AA	GG	1946960837
SNP_P4_135498_102725	NW_004516008.1	Scaffold575	102725	TT	CC	1946960839
SNP_P4_135499_102808	NW_004516008.1	Scaffold575	102808	TT	GG	1946960841
SNP_P4_135500_102840	NW_004516008.1	Scaffold575	102840	TT	CC	1946960843
SNP_P4_135501_102880	NW_004516008.1	Scaffold575	102880	AA	GG	1946960845
SNP_P4_135502_102904	NW_004516008.1	Scaffold575	102904	AA	GG	1946960847
SNP_P4_135503_102908	NW_004516008.1	Scaffold575	102908	TT	CC	1946960849
SNP_P4_135504_102922	NW_004516008.1	Scaffold575	102922	AA	GG	1946960851
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SNP_P4_135515_103318	NW_004516008.1	Scaffold575	103318	AA	GG	1946960871
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SNP_P4_135518_103457	NW_004516008.1	Scaffold575	103457	AA	GG	1946960877
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SNP_P4_135527_103750	NW_004516008.1	Scaffold575	103750	AA	GG	1946960891
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SNP_P4_135529_103799	NW_004516008.1	Scaffold575	103799	TT	GG	1946960895
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SNP_P4_135532_103834	NW_004516008.1	Scaffold575	103834	AA	GG	1946960899
SNP_P4_135533_103855	NW_004516008.1	Scaffold575	103855	TT	CC	1946960901
SNP_P4_135534_104015	NW_004516008.1	Scaffold575	104015	AA	GG	1946960903
SNP_P4_135535_104035	NW_004516008.1	Scaffold575	104035	TT	CC	1946960905

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_135539_104131	NW_004516008.1	Scaffold575	104131	AA	CC	1946960914
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SNP_P4_135547_104384	NW_004516008.1	Scaffold575	104384	AA	GG	1946960927
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SNP_P4_135549_104417	NW_004516008.1	Scaffold575	104417	AA	GG	1946960929
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SNP_P4_135575_110466	NW_004516008.1	Scaffold575	110466	AA	CC	1946960955
SNP_P4_135576_110481	NW_004516008.1	Scaffold575	110481	AA	GG	1946960956
SNP_P4_135579_110519	NW_004516008.1	Scaffold575	110519	TT	CC	1946960957

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_135582_110605	NW_004516008.1	Scaffold575	110605	AA	CC	1946960960
SNP_P4_135583_110620	NW_004516008.1	Scaffold575	110620	AA	GG	1946960961
SNP_P4_135584_110644	NW_004516008.1	Scaffold575	110644	TT	GG	1946960962
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SNP_P4_135590_110772	NW_004516008.1	Scaffold575	110772	TT	GG	1946960968
SNP_P4_135591_110830	NW_004516008.1	Scaffold575	110830	TT	AA	1946960969
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SNP_P4_135617_111507	NW_004516008.1	Scaffold575	111507	TT	AA	1946961005
SNP_P4_135618_111513	NW_004516008.1	Scaffold575	111513	AA	CC	1946961007
SNP_P4_135619_111527	NW_004516008.1	Scaffold575	111527	GG	CC	1946961009
SNP_P4_135620_111542	NW_004516008.1	Scaffold575	111542	TT	CC	1946961011
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_135625_111698	NW_004516008.1	Scaffold575	111698	AA	GG	1946961019
SNP_P4_135626_111725	NW_004516008.1	Scaffold575	111725	TT	CC	1946961021
SNP_P4_135627_111743	NW_004516008.1	Scaffold575	111743	AA	CC	1946961023
SNP_P4_135628_111796	NW_004516008.1	Scaffold575	111796	TT	AA	1946961025
SNP_P4_135629_111831	NW_004516008.1	Scaffold575	111831	TT	CC	1946961027
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SNP_P4_135635_111945	NW_004516008.1	Scaffold575	111945	AA	GG	1946961039
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SNP_P4_135640_112145	NW_004516008.1	Scaffold575	112145	AA	CC	1946961049
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SNP_P4_135657_112618	NW_004516008.1	Scaffold575	112618	CC	TT	1946961153
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SNP_P4_135659_112682	NW_004516008.1	Scaffold575	112682	TT	CC	1946961157
SNP_P4_135660_112725	NW_004516008.1	Scaffold575	112725	CC	AA	1946961159
SNP_P4_135661_112751	NW_004516008.1	Scaffold575	112751	TT	AA	1946961161
SNP_P4_135663_112848	NW_004516008.1	Scaffold575	112848	CC	GG	1946961163
SNP_P4_135664_112865	NW_004516008.1	Scaffold575	112865	TT	CC	1946961165
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_135754_116880	NW_004516008.1	Scaffold575	116880	AA	GG	1946961400
SNP_P4_135755_116925	NW_004516008.1	Scaffold575	116925	AA	GG	1946961402
SNP_P4_135756_116957	NW_004516008.1	Scaffold575	116957	AA	CC	1946961404
SNP_P4_135757_116972	NW_004516008.1	Scaffold575	116972	AA	TT	1946961406

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_135758_116978	NW_004516008.1	Scaffold575	116978	TT	CC	1946961408
SNP_P4_135759_116989	NW_004516008.1	Scaffold575	116989	TT	GG	1946961411
SNP_P4_135760_117063	NW_004516008.1	Scaffold575	117063	AA	GG	1946961413
SNP_P4_135761_117080	NW_004516008.1	Scaffold575	117080	TT	CC	1946961415
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SNP_P4_135763_117144	NW_004516008.1	Scaffold575	117144	AA	GG	1946961419
SNP_P4_135764_117167	NW_004516008.1	Scaffold575	117167	TT	CC	1946961421
SNP_P4_135765_117186	NW_004516008.1	Scaffold575	117186	AA	GG	1946961423
SNP_P4_135766_117187	NW_004516008.1	Scaffold575	117187	AA	TT	1946961425
SNP_P4_135767_117213	NW_004516008.1	Scaffold575	117213	AA	GG	1946961427
SNP_P4_135768_117221	NW_004516008.1	Scaffold575	117221	AA	GG	1946961429
SNP_P4_135769_117249	NW_004516008.1	Scaffold575	117249	CC	TT	1946961431
SNP_P4_135770_117282	NW_004516008.1	Scaffold575	117282	AA	CC	1946961433
SNP_P4_135771_117305	NW_004516008.1	Scaffold575	117305	GG	AA	1946961435
SNP_P4_135772_117333	NW_004516008.1	Scaffold575	117333	AA	GG	1946961437
SNP_P4_135773_117338	NW_004516008.1	Scaffold575	117338	TT	CC	1946961439
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SNP_P4_135775_117379	NW_004516008.1	Scaffold575	117379	TT	AA	1946961458
SNP_P4_135776_117386	NW_004516008.1	Scaffold575	117386	AA	GG	1946961459
SNP_P4_135777_117399	NW_004516008.1	Scaffold575	117399	AA	GG	1946961460
SNP_P4_135778_117424	NW_004516008.1	Scaffold575	117424	AA	TT	1946961461
SNP_P4_135779_117437	NW_004516008.1	Scaffold575	117437	TT	CC	1946961462
SNP_P4_135780_117466	NW_004516008.1	Scaffold575	117466	TT	GG	1946961463
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SNP_P4_135782_117532	NW_004516008.1	Scaffold575	117532	AA	GG	1946961465
SNP_P4_135783_117603	NW_004516008.1	Scaffold575	117603	GG	AA	1946961466
SNP_P4_135784_117616	NW_004516008.1	Scaffold575	117616	AA	GG	1946961467
SNP_P4_135785_117628	NW_004516008.1	Scaffold575	117628	TT	GG	1946961468
SNP_P4_135786_117692	NW_004516008.1	Scaffold575	117692	AA	CC	1946961469
SNP_P4_135787_117701	NW_004516008.1	Scaffold575	117701	TT	CC	1946961470
SNP_P4_135788_117720	NW_004516008.1	Scaffold575	117720	AA	CC	1946961471
SNP_P4_135789_117732	NW_004516008.1	Scaffold575	117732	TT	GG	1946961472
SNP_P4_135790_117752	NW_004516008.1	Scaffold575	117752	TT	CC	1946961473
SNP_P4_135791_117763	NW_004516008.1	Scaffold575	117763	TT	CC	1946961474
SNP_P4_135792_117775	NW_004516008.1	Scaffold575	117775	AA	TT	1946961476
SNP_P4_135793_117834	NW_004516008.1	Scaffold575	117834	TT	CC	1946961478
SNP_P4_135794_117865	NW_004516008.1	Scaffold575	117865	TT	GG	1946961480
SNP_P4_135795_117900	NW_004516008.1	Scaffold575	117900	AA	GG	1946961482
SNP_P4_135796_117964	NW_004516008.1	Scaffold575	117964	AA	CC	1946961484
SNP_P4_135797_117999	NW_004516008.1	Scaffold575	117999	AA	CC	1946961486
SNP_P4_135798_118014	NW_004516008.1	Scaffold575	118014	AA	GG	1946961488
SNP_P4_135799_118141	NW_004516008.1	Scaffold575	118141	AA	GG	1946961490

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_135801_118180	NW_004516008.1	Scaffold575	118180	AA	GG	1946961494
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SNP_P4_135804_118286	NW_004516008.1	Scaffold575	118286	TT	AA	1946961498
SNP_P4_135805_118299	NW_004516008.1	Scaffold575	118299	AA	CC	1946961500
SNP_P4_135806_118352	NW_004516008.1	Scaffold575	118352	AA	GG	1946961502
SNP_P4_135807_118374	NW_004516008.1	Scaffold575	118374	TT	GG	1946961504
SNP_P4_135808_118409	NW_004516008.1	Scaffold575	118409	TT	CC	1946961506
SNP_P4_135809_118414	NW_004516008.1	Scaffold575	118414	AA	GG	1946961508
SNP_P4_135810_118475	NW_004516008.1	Scaffold575	118475	AA	GG	1946961510
SNP_P4_135811_118481	NW_004516008.1	Scaffold575	118481	AA	GG	1946961512
SNP_P4_135812_118525	NW_004516008.1	Scaffold575	118525	AA	GG	1946961514
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SNP_P4_135814_120028	NW_004516008.1	Scaffold575	120028	GG	AA	1946961518
SNP_P4_135815_120111	NW_004516008.1	Scaffold575	120111	AA	GG	1946961520
SNP_P4_135816_120184	NW_004516008.1	Scaffold575	120184	AA	GG	1946961522
SNP_P4_135817_120187	NW_004516008.1	Scaffold575	120187	TT	GG	1946961524
SNP_P4_135818_120201	NW_004516008.1	Scaffold575	120201	AA	CC	1946961526
SNP_P4_135819_120203	NW_004516008.1	Scaffold575	120203	TT	CC	1946961528
SNP_P4_135820_120270	NW_004516008.1	Scaffold575	120270	AA	CC	1946961530
SNP_P4_135822_120501	NW_004516008.1	Scaffold575	120501	TT	CC	1946961532
SNP_P4_135823_120523	NW_004516008.1	Scaffold575	120523	GG	TT	1946961534
SNP_P4_135824_121595	NW_004516008.1	Scaffold575	121595	GG	AA	1946961536
SNP_P4_135825_121613	NW_004516008.1	Scaffold575	121613	TT	CC	1946961538
SNP_P4_135826_121624	NW_004516008.1	Scaffold575	121624	GG	AA	1946961540
SNP_P4_135827_121689	NW_004516008.1	Scaffold575	121689	CC	AA	1946961542
SNP_P4_135828_121717	NW_004516008.1	Scaffold575	121717	CC	TT	1946961544
SNP_P4_135829_121728	NW_004516008.1	Scaffold575	121728	AA	GG	1946961546
SNP_P4_135830_121741	NW_004516008.1	Scaffold575	121741	GG	AA	1946961548
SNP_P4_135831_121867	NW_004516008.1	Scaffold575	121867	GG	TT	1946961550
SNP_P4_135832_121874	NW_004516008.1	Scaffold575	121874	TT	CC	1946961552
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SNP_P4_135838_122019	NW_004516008.1	Scaffold575	122019	AA	GG	1946961564
SNP_P4_135839_122024	NW_004516008.1	Scaffold575	122024	GG	TT	1946961566
SNP_P4_135840_122038	NW_004516008.1	Scaffold575	122038	AA	GG	1946961568
SNP_P4_135841_122056	NW_004516008.1	Scaffold575	122056	AA	CC	1946961570
SNP_P4_135842_122059	NW_004516008.1	Scaffold575	122059	TT	CC	1946961572
SNP_P4_135843_122061	NW_004516008.1	Scaffold575	122061	TT	CC	1946961574

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_135845_122081	NW_004516008.1	Scaffold575	122081	GG	CC	1946961578
SNP_P4_135846_122102	NW_004516008.1	Scaffold575	122102	AA	GG	1946961580
SNP_P4_135847_122121	NW_004516008.1	Scaffold575	122121	TT	CC	1946961582
SNP_P4_135848_122126	NW_004516008.1	Scaffold575	122126	GG	AA	1946961584
SNP_P4_135849_122138	NW_004516008.1	Scaffold575	122138	AA	GG	1946961586
SNP_P4_135850_122151	NW_004516008.1	Scaffold575	122151	CC	AA	1946961588
SNP_P4_135851_122203	NW_004516008.1	Scaffold575	122203	AA	CC	1946961590
SNP_P4_135852_122312	NW_004516008.1	Scaffold575	122312	TT	CC	1946961592
SNP_P4_135853_122366	NW_004516008.1	Scaffold575	122366	AA	GG	1946961594
SNP_P4_135854_122368	NW_004516008.1	Scaffold575	122368	TT	CC	1946961596
SNP_P4_135855_122409	NW_004516008.1	Scaffold575	122409	TT	CC	1946961598
SNP_P4_135856_122473	NW_004516008.1	Scaffold575	122473	GG	CC	1946961600
SNP_P4_135857_122480	NW_004516008.1	Scaffold575	122480	TT	CC	1946961602
SNP_P4_135858_122518	NW_004516008.1	Scaffold575	122518	AA	CC	1946961604
SNP_P4_135859_122574	NW_004516008.1	Scaffold575	122574	TT	GG	1946961606
SNP_P4_135860_122647	NW_004516008.1	Scaffold575	122647	CC	AA	1946961608
SNP_P4_135861_123990	NW_004516008.1	Scaffold575	123990	TT	GG	1946961610
SNP_P4_135862_124018	NW_004516008.1	Scaffold575	124018	AA	GG	1946961612
SNP_P4_135863_124053	NW_004516008.1	Scaffold575	124053	CC	AA	1946961614
SNP_P4_135864_124064	NW_004516008.1	Scaffold575	124064	TT	CC	1946961616
SNP_P4_135865_124076	NW_004516008.1	Scaffold575	124076	CC	AA	1946961618
SNP_P4_135866_124092	NW_004516008.1	Scaffold575	124092	AA	GG	1946961620
SNP_P4_135867_124230	NW_004516008.1	Scaffold575	124230	AA	CC	1946961622
SNP_P4_135868_124258	NW_004516008.1	Scaffold575	124258	TT	CC	1946961624
SNP_P4_135869_124262	NW_004516008.1	Scaffold575	124262	GG	AA	1946961626
SNP_P4_135870_124324	NW_004516008.1	Scaffold575	124324	CC	TT	1946961628
SNP_P4_135871_124344	NW_004516008.1	Scaffold575	124344	AA	CC	1946961630
SNP_P4_135872_124353	NW_004516008.1	Scaffold575	124353	GG	AA	1946961632
SNP_P4_135873_124354	NW_004516008.1	Scaffold575	124354	GG	AA	1946961634
SNP_P4_135874_124420	NW_004516008.1	Scaffold575	124420	GG	AA	1946961636
SNP_P4_135875_124505	NW_004516008.1	Scaffold575	124505	TT	CC	1946961638
SNP_P4_135876_124536	NW_004516008.1	Scaffold575	124536	GG	AA	1946961640
SNP_P4_135877_124560	NW_004516008.1	Scaffold575	124560	AA	GG	1946961642
SNP_P4_135878_124651	NW_004516008.1	Scaffold575	124651	TT	CC	1946961644
SNP_P4_135879_124783	NW_004516008.1	Scaffold575	124783	AA	GG	1946961646
SNP_P4_135880_124853	NW_004516008.1	Scaffold575	124853	CC	TT	1946961648
SNP_P4_135881_124856	NW_004516008.1	Scaffold575	124856	TT	CC	1946961650
SNP_P4_135882_124862	NW_004516008.1	Scaffold575	124862	TT	CC	1946961652
SNP_P4_135883_124867	NW_004516008.1	Scaffold575	124867	GG	AA	1946961654
SNP_P4_135884_124886	NW_004516008.1	Scaffold575	124886	TT	CC	1946961656
SNP_P4_135885_124888	NW_004516008.1	Scaffold575	124888	AA	CC	1946961658

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_135889_124983	NW_004516008.1	Scaffold575	124983	GG	CC	1946961667
SNP_P4_135890_124998	NW_004516008.1	Scaffold575	124998	TT	CC	1946961669
SNP_P4_135891_125005	NW_004516008.1	Scaffold575	125005	AA	GG	1946961671
SNP_P4_135892_125014	NW_004516008.1	Scaffold575	125014	AA	GG	1946961673
SNP_P4_135893_125083	NW_004516008.1	Scaffold575	125083	AA	CC	1946961675
SNP_P4_135894_125174	NW_004516008.1	Scaffold575	125174	TT	CC	1946961677
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SNP_P4_135896_125245	NW_004516008.1	Scaffold575	125245	TT	CC	1946961681
SNP_P4_135897_125301	NW_004516008.1	Scaffold575	125301	GG	TT	1946961683
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SNP_P4_135899_125368	NW_004516008.1	Scaffold575	125368	GG	AA	1946961687
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SNP_P4_135902_125413	NW_004516008.1	Scaffold575	125413	AA	GG	1946961693
SNP_P4_135903_125448	NW_004516008.1	Scaffold575	125448	AA	GG	1946961695
SNP_P4_135904_125449	NW_004516008.1	Scaffold575	125449	TT	GG	1946961697
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SNP_P4_135906_125492	NW_004516008.1	Scaffold575	125492	TT	CC	1946961701
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SNP_P4_135912_125599	NW_004516008.1	Scaffold575	125599	TT	CC	1946961713
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SNP_P4_135924_125905	NW_004516008.1	Scaffold575	125905	AA	GG	1946961737
SNP_P4_135925_125912	NW_004516008.1	Scaffold575	125912	TT	CC	1946961739
SNP_P4_135926_125914	NW_004516008.1	Scaffold575	125914	AA	GG	1946961741
SNP_P4_135927_125985	NW_004516008.1	Scaffold575	125985	AA	GG	1946961743

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_135930_126042	NW_004516008.1	Scaffold575	126042	AA	CC	1946961749
SNP_P4_135931_126053	NW_004516008.1	Scaffold575	126053	GG	TT	1946961751
SNP_P4_135932_126058	NW_004516008.1	Scaffold575	126058	CC	TT	1946961753
SNP_P4_135933_126118	NW_004516008.1	Scaffold575	126118	TT	CC	1946961755
SNP_P4_135934_126155	NW_004516008.1	Scaffold575	126155	TT	CC	1946961757
SNP_P4_135935_126164	NW_004516008.1	Scaffold575	126164	CC	GG	1946961759
SNP_P4_135936_126175	NW_004516008.1	Scaffold575	126175	GG	AA	1946961761
SNP_P4_135937_126255	NW_004516008.1	Scaffold575	126255	TT	CC	1946961763
SNP_P4_135938_126258	NW_004516008.1	Scaffold575	126258	AA	TT	1946961765
SNP_P4_135939_126260	NW_004516008.1	Scaffold575	126260	TT	GG	1946961767
SNP_P4_135941_126345	NW_004516008.1	Scaffold575	126345	TT	CC	1946961769
SNP_P4_135942_126379	NW_004516008.1	Scaffold575	126379	TT	CC	1946961771
SNP_P4_135943_126393	NW_004516008.1	Scaffold575	126393	AA	GG	1946961773
SNP_P4_135944_126407	NW_004516008.1	Scaffold575	126407	TT	CC	1946961775
SNP_P4_135945_126409	NW_004516008.1	Scaffold575	126409	GG	AA	1946961777
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SNP_P4_135958_126819	NW_004516008.1	Scaffold575	126819	AA	GG	1946961803
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SNP_P4_135960_126860	NW_004516008.1	Scaffold575	126860	TT	CC	1946961807
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SNP_P4_135963_126886	NW_004516008.1	Scaffold575	126886	AA	GG	1946961813
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SNP_P4_135965_127005	NW_004516008.1	Scaffold575	127005	AA	CC	1946961817
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SNP_P4_135968_127031	NW_004516008.1	Scaffold575	127031	AA	CC	1946961822
SNP_P4_135969_127077	NW_004516008.1	Scaffold575	127077	AA	GG	1946961824
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_135972_127245	NW_004516008.1	Scaffold575	127245	CC	GG	1946961830
SNP_P4_135973_127256	NW_004516008.1	Scaffold575	127256	AA	CC	1946961832
SNP_P4_135974_127291	NW_004516008.1	Scaffold575	127291	AA	GG	1946961834
SNP_P4_135975_130744	NW_004516008.1	Scaffold575	130744	AA	TT	1946961836
SNP_P4_135976_131225	NW_004516008.1	Scaffold575	131225	AA	GG	1946961838
SNP_P4_135977_4381	NW_004516009.1	Scaffold577	4381	CC	AA	1946961840
SNP_P4_135978_8143	NW_004516009.1	Scaffold577	8143	TT	CC	1946961842
SNP_P4_135979_8154	NW_004516009.1	Scaffold577	8154	AA	GG	1946961844
SNP_P4_135980_8203	NW_004516009.1	Scaffold577	8203	GG	TT	1946961846
SNP_P4_135981_8565	NW_004516009.1	Scaffold577	8565	GG	AA	1946961848
SNP_P4_135982_16675	NW_004516009.1	Scaffold577	16675	CC	TT	1946961850
SNP_P4_135983_16779	NW_004516009.1	Scaffold577	16779	GG	AA	1946961852
SNP_P4_135984_16818	NW_004516009.1	Scaffold577	16818	AA	GG	1946961854
SNP_P4_135985_17146	NW_004516009.1	Scaffold577	17146	GG	AA	1946961856
SNP_P4_135986_17260	NW_004516009.1	Scaffold577	17260	GG	AA	1946961858
SNP_P4_135987_17270	NW_004516009.1	Scaffold577	17270	TT	GG	1946961860
SNP_P4_135988_22493	NW_004516009.1	Scaffold577	22493	TT	CC	1946961862
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SNP_P4_135990_26081	NW_004516009.1	Scaffold577	26081	GG	AA	1946961866
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SNP_P4_135993_30854	NW_004516009.1	Scaffold577	30854	CC	TT	1946961872
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SNP_P4_135997_35066	NW_004516009.1	Scaffold577	35066	AA	GG	1946961880
SNP_P4_135998_35307	NW_004516009.1	Scaffold577	35307	AA	CC	1946961882
SNP_P4_135999_35342	NW_004516009.1	Scaffold577	35342	TT	AA	1946961884
SNP_P4_136000_35894	NW_004516009.1	Scaffold577	35894	AA	TT	1946961886
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SNP_P4_136007_42253	NW_004516009.1	Scaffold577	42253	GG	AA	1946961899
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SNP_P4_136010_42444	NW_004516009.1	Scaffold577	42444	AA	TT	1946961905
SNP_P4_136011_42596	NW_004516009.1	Scaffold577	42596	AA	GG	1946961907
SNP_P4_136012_55294	NW_004516009.1	Scaffold577	55294	AA	GG	1946961909

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_136015_56054	NW_004516009.1	Scaffold577	56054	GG	AA	1946961915
SNP_P4_136016_56089	NW_004516009.1	Scaffold577	56089	CC	AA	1946961917
SNP_P4_136017_64428	NW_004516009.1	Scaffold577	64428	CC	TT	1946961920
SNP_P4_136018_64567	NW_004516009.1	Scaffold577	64567	TT	CC	1946961922
SNP_P4_136019_64752	NW_004516009.1	Scaffold577	64752	TT	GG	1946961924
SNP_P4_136020_64924	NW_004516009.1	Scaffold577	64924	CC	GG	1946961926
SNP_P4_136021_64957	NW_004516009.1	Scaffold577	64957	CC	GG	1946961928
SNP_P4_136022_65037	NW_004516009.1	Scaffold577	65037	AA	GG	1946961930
SNP_P4_136023_65134	NW_004516009.1	Scaffold577	65134	GG	CC	1946961931
SNP_P4_136024_65199	NW_004516009.1	Scaffold577	65199	GG	AA	1946961933
SNP_P4_136025_65434	NW_004516009.1	Scaffold577	65434	CC	TT	1946961935
SNP_P4_136026_65445	NW_004516009.1	Scaffold577	65445	GG	CC	1946961937
SNP_P4_136027_65839	NW_004516009.1	Scaffold577	65839	TT	CC	1946961939
SNP_P4_136028_66005	NW_004516009.1	Scaffold577	66005	AA	GG	1946961941
SNP_P4_136029_66375	NW_004516009.1	Scaffold577	66375	AA	CC	1946961943
SNP_P4_136030_66720	NW_004516009.1	Scaffold577	66720	CC	AA	1946961945
SNP_P4_136031_69695	NW_004516009.1	Scaffold577	69695	CC	AA	1946961947
SNP_P4_136032_69949	NW_004516009.1	Scaffold577	69949	TT	CC	1946961949
SNP_P4_136033_70293	NW_004516009.1	Scaffold577	70293	AA	GG	1946961951
SNP_P4_136034_71064	NW_004516009.1	Scaffold577	71064	TT	GG	1946961953
SNP_P4_136035_71260	NW_004516009.1	Scaffold577	71260	GG	CC	1946961955
SNP_P4_136036_74339	NW_004516009.1	Scaffold577	74339	GG	TT	1946961957
SNP_P4_136037_74506	NW_004516009.1	Scaffold577	74506	CC	TT	1946961959
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SNP_P4_136039_74688	NW_004516009.1	Scaffold577	74688	TT	CC	1946961963
SNP_P4_136040_74776	NW_004516009.1	Scaffold577	74776	GG	CC	1946961965
SNP_P4_136041_81697	NW_004516009.1	Scaffold577	81697	CC	TT	1946961967
SNP_P4_136042_84386	NW_004516009.1	Scaffold577	84386	GG	CC	1946961969
SNP_P4_136043_84661	NW_004516009.1	Scaffold577	84661	GG	TT	1946961971
SNP_P4_136044_84751	NW_004516009.1	Scaffold577	84751	AA	GG	1946961973
SNP_P4_136045_84782	NW_004516009.1	Scaffold577	84782	AA	TT	1946961975
SNP_P4_136046_85236	NW_004516009.1	Scaffold577	85236	TT	GG	1946961977
SNP_P4_136047_85623	NW_004516009.1	Scaffold577	85623	CC	GG	1946961979
SNP_P4_136048_97252	NW_004516009.1	Scaffold577	97252	GG	AA	1946961981
SNP_P4_136049_103671	NW_004516009.1	Scaffold577	103671	AA	TT	1946961983
SNP_P4_136050_105867	NW_004516009.1	Scaffold577	105867	TT	AA	1946961985
SNP_P4_136051_106266	NW_004516009.1	Scaffold577	106266	CC	TT	1946961987
SNP_P4_136052_106267	NW_004516009.1	Scaffold577	106267	AA	TT	1946961989
SNP_P4_136053_106273	NW_004516009.1	Scaffold577	106273	CC	TT	1946961991
SNP_P4_136054_106801	NW_004516009.1	Scaffold577	106801	CC	TT	1946961993

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_136057_111853	NW_004516009.1	Scaffold577	111853	GG	AA	1946961999
SNP_P4_136058_111883	NW_004516009.1	Scaffold577	111883	GG	AA	1946962001
SNP_P4_136059_111894	NW_004516009.1	Scaffold577	111894	AA	GG	1946962003
SNP_P4_136060_121305	NW_004516009.1	Scaffold577	121305	CC	TT	1946962005
SNP_P4_136061_121615	NW_004516009.1	Scaffold577	121615	AA	GG	1946962007
SNP_P4_136062_121858	NW_004516009.1	Scaffold577	121858	GG	AA	1946962009
SNP_P4_136063_2737	NW_004516010.1	Scaffold578	2737	TT	CC	1946962011
SNP_P4_136064_7775	NW_004516010.1	Scaffold578	7775	TT	CC	1946962013
SNP_P4_136065_7834	NW_004516010.1	Scaffold578	7834	CC	TT	1946962015
SNP_P4_136066_7844	NW_004516010.1	Scaffold578	7844	TT	GG	1946962017
SNP_P4_136067_7860	NW_004516010.1	Scaffold578	7860	AA	TT	1946962019
SNP_P4_136068_7951	NW_004516010.1	Scaffold578	7951	CC	GG	1946962021
SNP_P4_136069_7959	NW_004516010.1	Scaffold578	7959	AA	GG	1946962023
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SNP_P4_136072_8073	NW_004516010.1	Scaffold578	8073	TT	GG	1946962029
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SNP_P4_136087_19631	NW_004516010.1	Scaffold578	19631	TT	AA	1946962057
SNP_P4_136088_19673	NW_004516010.1	Scaffold578	19673	GG	CC	1946962059
SNP_P4_136089_19761	NW_004516010.1	Scaffold578	19761	GG	AA	1946962061
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SNP_P4_136094_19932	NW_004516010.1	Scaffold578	19932	AA	CC	1946962071
SNP_P4_136095_19967	NW_004516010.1	Scaffold578	19967	CC	TT	1946962073
SNP_P4_136096_19971	NW_004516010.1	Scaffold578	19971	GG	AA	1946962075
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_136101_20207	NW_004516010.1	Scaffold578	20207	CC	TT	1946962086
SNP_P4_136102_20208	NW_004516010.1	Scaffold578	20208	GG	AA	1946962088
SNP_P4_136103_20225	NW_004516010.1	Scaffold578	20225	GG	AA	1946962090
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SNP_P4_136107_20283	NW_004516010.1	Scaffold578	20283	AA	GG	1946962098
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SNP_P4_136110_20650	NW_004516010.1	Scaffold578	20650	CC	GG	1946962104
SNP_P4_136111_20754	NW_004516010.1	Scaffold578	20754	AA	TT	1946962106
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SNP_P4_136138_37887	NW_004516010.1	Scaffold578	37887	CC	GG	1946962160
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_136145_59749	NW_004516010.1	Scaffold578	59749	GG	TT	1946962170
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SNP_P4_136147_62792	NW_004516010.1	Scaffold578	62792	CC	TT	1946962174
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SNP_P4_136154_63922	NW_004516010.1	Scaffold578	63922	CC	AA	1946962188
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SNP_P4_136157_1150	NW_004516012.1	Scaffold582	1150	AA	CC	1946962194
SNP_P4_136158_1177	NW_004516012.1	Scaffold582	1177	TT	CC	1946962196
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SNP_P4_136175_24937	NW_004516012.1	Scaffold582	24937	AA	TT	1946962230
SNP_P4_136176_24962	NW_004516012.1	Scaffold582	24962	CC	AA	1946962232
SNP_P4_136177_24965	NW_004516012.1	Scaffold582	24965	GG	CC	1946962234
SNP_P4_136178_25068	NW_004516012.1	Scaffold582	25068	CC	TT	1946962236
SNP_P4_136179_25209	NW_004516012.1	Scaffold582	25209	CC	TT	1946962238
SNP_P4_136180_25212	NW_004516012.1	Scaffold582	25212	AA	TT	1946962240
SNP_P4_136181_29954	NW_004516012.1	Scaffold582	29954	AA	GG	1946962242
SNP_P4_136182_30387	NW_004516012.1	Scaffold582	30387	CC	GG	1946962244
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_136186_30690	NW_004516012.1	Scaffold582	30690	AA	TT	1946962252
SNP_P4_136187_377	NW_004516013.1	Scaffold583	377	AA	GG	1946962254
SNP_P4_136188_378	NW_004516013.1	Scaffold583	378	AA	TT	1946962256
SNP_P4_136189_472	NW_004516013.1	Scaffold583	472	AA	CC	1946962258
SNP_P4_136190_478	NW_004516013.1	Scaffold583	478	CC	TT	1946962260
SNP_P4_136191_566	NW_004516013.1	Scaffold583	566	AA	GG	1946962262
SNP_P4_136192_639	NW_004516013.1	Scaffold583	639	AA	GG	1946962264
SNP_P4_136193_1722	NW_004516013.1	Scaffold583	1722	AA	TT	1946962266
SNP_P4_136194_2066	NW_004516013.1	Scaffold583	2066	TT	AA	1946962268
SNP_P4_136195_3878	NW_004516013.1	Scaffold583	3878	CC	AA	1946962270
SNP_P4_136196_3917	NW_004516013.1	Scaffold583	3917	TT	CC	1946962272
SNP_P4_136197_4006	NW_004516013.1	Scaffold583	4006	GG	AA	1946962274
SNP_P4_136198_4069	NW_004516013.1	Scaffold583	4069	GG	AA	1946962276
SNP_P4_136199_4097	NW_004516013.1	Scaffold583	4097	AA	GG	1946962278
SNP_P4_136200_4168	NW_004516013.1	Scaffold583	4168	AA	CC	1946962280
SNP_P4_136201_4187	NW_004516013.1	Scaffold583	4187	GG	AA	1946962282
SNP_P4_136202_4226	NW_004516013.1	Scaffold583	4226	TT	CC	1946962284
SNP_P4_136203_4302	NW_004516013.1	Scaffold583	4302	TT	CC	1946962286
SNP_P4_136204_4330	NW_004516013.1	Scaffold583	4330	TT	CC	1946962288
SNP_P4_136205_4348	NW_004516013.1	Scaffold583	4348	TT	CC	1946962290
SNP_P4_136206_4369	NW_004516013.1	Scaffold583	4369	TT	GG	1946962292
SNP_P4_136207_4400	NW_004516013.1	Scaffold583	4400	TT	CC	1946962294
SNP_P4_136208_4458	NW_004516013.1	Scaffold583	4458	AA	TT	1946962296
SNP_P4_136209_9047	NW_004516013.1	Scaffold583	9047	AA	CC	1946962298
SNP_P4_136210_11110	NW_004516013.1	Scaffold583	11110	CC	GG	1946962300
SNP_P4_136211_11263	NW_004516013.1	Scaffold583	11263	TT	CC	1946962302
SNP_P4_136212_11289	NW_004516013.1	Scaffold583	11289	GG	AA	1946962304
SNP_P4_136213_11299	NW_004516013.1	Scaffold583	11299	CC	TT	1946962306
SNP_P4_136214_11300	NW_004516013.1	Scaffold583	11300	TT	CC	1946962308
SNP_P4_136215_11302	NW_004516013.1	Scaffold583	11302	AA	GG	1946962310
SNP_P4_136216_11382	NW_004516013.1	Scaffold583	11382	AA	GG	1946962312
SNP_P4_136217_11390	NW_004516013.1	Scaffold583	11390	CC	TT	1946962314
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SNP_P4_136220_11465	NW_004516013.1	Scaffold583	11465	CC	TT	1946962320
SNP_P4_136221_11543	NW_004516013.1	Scaffold583	11543	GG	AA	1946962322
SNP_P4_136222_11715	NW_004516013.1	Scaffold583	11715	TT	CC	1946962324
SNP_P4_136223_11814	NW_004516013.1	Scaffold583	11814	TT	CC	1946962326
SNP_P4_136224_12132	NW_004516013.1	Scaffold583	12132	AA	TT	1946962328
SNP_P4_136225_15187	NW_004516013.1	Scaffold583	15187	TT	GG	1946962330

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_136227_18505	NW_004516013.1	Scaffold583	18505	CC	TT	1946962335
SNP_P4_136228_18806	NW_004516013.1	Scaffold583	18806	AA	GG	1946962337
SNP_P4_136229_26301	NW_004516013.1	Scaffold583	26301	GG	TT	1946962339
SNP_P4_136230_26321	NW_004516013.1	Scaffold583	26321	AA	GG	1946962341
SNP_P4_136231_31156	NW_004516013.1	Scaffold583	31156	GG	AA	1946962343
SNP_P4_136232_42131	NW_004516013.1	Scaffold583	42131	TT	AA	1946962345
SNP_P4_136233_45978	NW_004516013.1	Scaffold583	45978	TT	CC	1946962347
SNP_P4_136234_46068	NW_004516013.1	Scaffold583	46068	TT	CC	1946962349
SNP_P4_136235_46086	NW_004516013.1	Scaffold583	46086	CC	TT	1946962351
SNP_P4_136236_46093	NW_004516013.1	Scaffold583	46093	GG	CC	1946962353
SNP_P4_136237_46105	NW_004516013.1	Scaffold583	46105	CC	TT	1946962355
SNP_P4_136238_46121	NW_004516013.1	Scaffold583	46121	AA	TT	1946962357
SNP_P4_136239_46360	NW_004516013.1	Scaffold583	46360	AA	TT	1946962359
SNP_P4_136240_46405	NW_004516013.1	Scaffold583	46405	TT	AA	1946962361
SNP_P4_136241_46457	NW_004516013.1	Scaffold583	46457	TT	AA	1946962363
SNP_P4_136242_47871	NW_004516013.1	Scaffold583	47871	TT	GG	1946962365
SNP_P4_136243_47886	NW_004516013.1	Scaffold583	47886	GG	TT	1946962367
SNP_P4_136244_47902	NW_004516013.1	Scaffold583	47902	TT	GG	1946962369
SNP_P4_136245_47928	NW_004516013.1	Scaffold583	47928	CC	TT	1946962371
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SNP_P4_136260_105834	NW_004516013.1	Scaffold583	105834	AA	GG	1946962396
SNP_P4_136261_105894	NW_004516013.1	Scaffold583	105894	GG	TT	1946962398
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SNP_P4_136267_107005	NW_004516013.1	Scaffold583	107005	GG	AA	1946962406
SNP_P4_136268_119328	NW_004516013.1	Scaffold583	119328	CC	TT	1946962408
SNP_P4_136269_119845	NW_004516013.1	Scaffold583	119845	TT	CC	1946962410
SNP_P4_136271_135407	NW_004516013.1	Scaffold583	135407	AA	CC	1946962412
SNP_P4_136273_136317	NW_004516013.1	Scaffold583	136317	GG	AA	1946962414

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_136276_136382	NW_004516013.1	Scaffold583	136382	TT	CC	1946962420
SNP_P4_136277_136418	NW_004516013.1	Scaffold583	136418	AA	GG	1946962422
SNP_P4_136278_136433	NW_004516013.1	Scaffold583	136433	TT	CC	1946962424
SNP_P4_136279_136435	NW_004516013.1	Scaffold583	136435	AA	GG	1946962427
SNP_P4_136280_136441	NW_004516013.1	Scaffold583	136441	AA	CC	1946962429
SNP_P4_136281_136470	NW_004516013.1	Scaffold583	136470	TT	AA	1946962431
SNP_P4_136282_136521	NW_004516013.1	Scaffold583	136521	GG	CC	1946962433
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SNP_P4_136284_136697	NW_004516013.1	Scaffold583	136697	AA	GG	1946962437
SNP_P4_136285_136761	NW_004516013.1	Scaffold583	136761	TT	GG	1946962439
SNP_P4_136286_136769	NW_004516013.1	Scaffold583	136769	GG	AA	1946962441
SNP_P4_136287_136787	NW_004516013.1	Scaffold583	136787	GG	AA	1946962443
SNP_P4_136288_136797	NW_004516013.1	Scaffold583	136797	AA	GG	1946962445
SNP_P4_136289_136822	NW_004516013.1	Scaffold583	136822	CC	AA	1946962447
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SNP_P4_136307_6502	NW_004516014.1	Scaffold584	6502	CC	TT	1946962480
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SNP_P4_136312_12015	NW_004516014.1	Scaffold584	12015	CC	AA	1946962490
SNP_P4_136313_12030	NW_004516014.1	Scaffold584	12030	GG	CC	1946962492
SNP_P4_136314_12046	NW_004516014.1	Scaffold584	12046	TT	AA	1946962494
SNP_P4_136315_12047	NW_004516014.1	Scaffold584	12047	AA	GG	1946962497
SNP_P4_136316_12048	NW_004516014.1	Scaffold584	12048	AA	GG	1946962499
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_136320_12193	NW_004516014.1	Scaffold584	12193	AA	GG	1946962507
SNP_P4_136321_12257	NW_004516014.1	Scaffold584	12257	CC	AA	1946962509
SNP_P4_136322_12261	NW_004516014.1	Scaffold584	12261	AA	CC	1946962511
SNP_P4_136324_12285	NW_004516014.1	Scaffold584	12285	AA	GG	1946962513
SNP_P4_136325_12289	NW_004516014.1	Scaffold584	12289	CC	AA	1946962515
SNP_P4_136328_74826	NW_004516014.1	Scaffold584	74826	CC	TT	1946962517
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SNP_P4_136334_119767	NW_004516014.1	Scaffold584	119767	AA	TT	1946962525
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SNP_P4_136362_320022	NW_004516014.1	Scaffold584	320022	CC	GG	1946962581
SNP_P4_136363_320032	NW_004516014.1	Scaffold584	320032	AA	GG	1946962583
SNP_P4_136364_322282	NW_004516014.1	Scaffold584	322282	TT	AA	1946962585

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_136367_330050	NW_004516014.1	Scaffold584	330050	GG	AA	1946962591
SNP_P4_136368_330362	NW_004516014.1	Scaffold584	330362	TT	CC	1946962593
SNP_P4_136369_330731	NW_004516014.1	Scaffold584	330731	GG	TT	1946962595
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SNP_P4_136371_332636	NW_004516014.1	Scaffold584	332636	CC	TT	1946962599
SNP_P4_136372_332703	NW_004516014.1	Scaffold584	332703	TT	GG	1946962601
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SNP_P4_136374_332990	NW_004516014.1	Scaffold584	332990	GG	CC	1946962605
SNP_P4_136375_335770	NW_004516014.1	Scaffold584	335770	CC	GG	1946962607
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SNP_P4_136393_7709	NW_004516016.1	Scaffold586	7709	AA	CC	1946962638
SNP_P4_136394_7749	NW_004516016.1	Scaffold586	7749	AA	GG	1946962640
SNP_P4_136395_7792	NW_004516016.1	Scaffold586	7792	GG	AA	1946962642
SNP_P4_136396_7801	NW_004516016.1	Scaffold586	7801	TT	AA	1946962644
SNP_P4_136397_10175	NW_004516016.1	Scaffold586	10175	AA	CC	1946962646
SNP_P4_136398_10177	NW_004516016.1	Scaffold586	10177	AA	CC	1946962648
SNP_P4_136399_20285	NW_004516016.1	Scaffold586	20285	CC	TT	1946962650
SNP_P4_136400_20338	NW_004516016.1	Scaffold586	20338	TT	CC	1946962652
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SNP_P4_136402_21757	NW_004516016.1	Scaffold586	21757	CC	TT	1946962656
SNP_P4_136403_21892	NW_004516016.1	Scaffold586	21892	GG	AA	1946962658
SNP_P4_136404_21904	NW_004516016.1	Scaffold586	21904	CC	TT	1946962660
SNP_P4_136405_21967	NW_004516016.1	Scaffold586	21967	GG	AA	1946962662
SNP_P4_136406_21976	NW_004516016.1	Scaffold586	21976	GG	AA	1946962664
SNP_P4_136407_21981	NW_004516016.1	Scaffold586	21981	TT	AA	1946962666

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_136410_22324	NW_004516016.1	Scaffold586	22324	TT	CC	1946962672
SNP_P4_136411_22848	NW_004516016.1	Scaffold586	22848	GG	AA	1946962675
SNP_P4_136412_22922	NW_004516016.1	Scaffold586	22922	TT	GG	1946962677
SNP_P4_136413_23007	NW_004516016.1	Scaffold586	23007	CC	TT	1946962679
SNP_P4_136414_23468	NW_004516016.1	Scaffold586	23468	CC	GG	1946962681
SNP_P4_136415_23615	NW_004516016.1	Scaffold586	23615	CC	AA	1946962683
SNP_P4_136416_23699	NW_004516016.1	Scaffold586	23699	AA	CC	1946962685
SNP_P4_136417_738	NW_004516017.1	Scaffold587	738	TT	CC	1946962687
SNP_P4_136418_815	NW_004516017.1	Scaffold587	815	GG	AA	1946962689
SNP_P4_136419_979	NW_004516017.1	Scaffold587	979	AA	GG	1946962691
SNP_P4_136420_1079	NW_004516017.1	Scaffold587	1079	AA	GG	1946962694
SNP_P4_136421_4192	NW_004516017.1	Scaffold587	4192	CC	TT	1946962696
SNP_P4_136422_4222	NW_004516017.1	Scaffold587	4222	AA	TT	1946962698
SNP_P4_136423_4454	NW_004516017.1	Scaffold587	4454	AA	GG	1946962700
SNP_P4_136424_4573	NW_004516017.1	Scaffold587	4573	TT	CC	1946962702
SNP_P4_136425_4576	NW_004516017.1	Scaffold587	4576	TT	AA	1946962704
SNP_P4_136426_4850	NW_004516017.1	Scaffold587	4850	TT	CC	1946962706
SNP_P4_136428_5028	NW_004516017.1	Scaffold587	5028	TT	GG	1946962709
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SNP_P4_136430_5119	NW_004516017.1	Scaffold587	5119	AA	GG	1946962713
SNP_P4_136431_5226	NW_004516017.1	Scaffold587	5226	AA	GG	1946962715
SNP_P4_136432_5244	NW_004516017.1	Scaffold587	5244	TT	AA	1946962717
SNP_P4_136433_5304	NW_004516017.1	Scaffold587	5304	GG	AA	1946962719
SNP_P4_136434_5325	NW_004516017.1	Scaffold587	5325	AA	GG	1946962721
SNP_P4_136436_5946	NW_004516017.1	Scaffold587	5946	CC	GG	1946962723
SNP_P4_136437_5950	NW_004516017.1	Scaffold587	5950	CC	AA	1946962725
SNP_P4_136438_6825	NW_004516017.1	Scaffold587	6825	CC	GG	1946962727
SNP_P4_136439_6839	NW_004516017.1	Scaffold587	6839	GG	AA	1946962729
SNP_P4_136442_7630	NW_004516017.1	Scaffold587	7630	AA	TT	1946962731
SNP_P4_136443_8069	NW_004516017.1	Scaffold587	8069	TT	AA	1946962733
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SNP_P4_136445_8173	NW_004516017.1	Scaffold587	8173	CC	AA	1946962737
SNP_P4_136446_9025	NW_004516017.1	Scaffold587	9025	TT	AA	1946962739
SNP_P4_136447_9032	NW_004516017.1	Scaffold587	9032	AA	TT	1946962741
SNP_P4_136448_9034	NW_004516017.1	Scaffold587	9034	AA	CC	1946962743
SNP_P4_136449_9077	NW_004516017.1	Scaffold587	9077	AA	GG	1946962745
SNP_P4_136450_9078	NW_004516017.1	Scaffold587	9078	GG	TT	1946962747
SNP_P4_136451_9099	NW_004516017.1	Scaffold587	9099	CC	TT	1946962749
SNP_P4_136452_9122	NW_004516017.1	Scaffold587	9122	AA	GG	1946962751
SNP_P4_136453_9126	NW_004516017.1	Scaffold587	9126	GG	AA	1946962753

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_136457_9289	NW_004516017.1	Scaffold587	9289	AA	GG	1946962761
SNP_P4_136458_9352	NW_004516017.1	Scaffold587	9352	TT	CC	1946962763
SNP_P4_136459_9441	NW_004516017.1	Scaffold587	9441	AA	CC	1946962765
SNP_P4_136460_9444	NW_004516017.1	Scaffold587	9444	GG	AA	1946962767
SNP_P4_136461_9749	NW_004516017.1	Scaffold587	9749	TT	AA	1946962769
SNP_P4_136462_10103	NW_004516017.1	Scaffold587	10103	GG	AA	1946962771
SNP_P4_136463_10106	NW_004516017.1	Scaffold587	10106	CC	AA	1946962773
SNP_P4_136464_10266	NW_004516017.1	Scaffold587	10266	TT	CC	1946962775
SNP_P4_136465_10286	NW_004516017.1	Scaffold587	10286	GG	AA	1946962777
SNP_P4_136466_10330	NW_004516017.1	Scaffold587	10330	AA	CC	1946962779
SNP_P4_136467_10517	NW_004516017.1	Scaffold587	10517	TT	AA	1946962781
SNP_P4_136468_10652	NW_004516017.1	Scaffold587	10652	AA	CC	1946962783
SNP_P4_136469_10665	NW_004516017.1	Scaffold587	10665	AA	GG	1946962785
SNP_P4_136470_10677	NW_004516017.1	Scaffold587	10677	TT	AA	1946962787
SNP_P4_136471_10956	NW_004516017.1	Scaffold587	10956	CC	TT	1946962789
SNP_P4_136472_10998	NW_004516017.1	Scaffold587	10998	TT	CC	1946962791
SNP_P4_136473_12926	NW_004516017.1	Scaffold587	12926	TT	AA	1946962793
SNP_P4_136474_13081	NW_004516017.1	Scaffold587	13081	CC	GG	1946962795
SNP_P4_136475_13173	NW_004516017.1	Scaffold587	13173	GG	TT	1946962797
SNP_P4_136476_13487	NW_004516017.1	Scaffold587	13487	AA	GG	1946962799
SNP_P4_136477_13539	NW_004516017.1	Scaffold587	13539	TT	GG	1946962801
SNP_P4_136478_13589	NW_004516017.1	Scaffold587	13589	AA	CC	1946962803
SNP_P4_136479_13949	NW_004516017.1	Scaffold587	13949	TT	AA	1946962805
SNP_P4_136480_15050	NW_004516017.1	Scaffold587	15050	TT	AA	1946962806
SNP_P4_136481_15223	NW_004516017.1	Scaffold587	15223	AA	CC	1946962807
SNP_P4_136482_15224	NW_004516017.1	Scaffold587	15224	AA	TT	1946962809
SNP_P4_136483_15232	NW_004516017.1	Scaffold587	15232	GG	TT	1946962811
SNP_P4_136485_15431	NW_004516017.1	Scaffold587	15431	AA	CC	1946962813
SNP_P4_136486_15514	NW_004516017.1	Scaffold587	15514	CC	GG	1946962815
SNP_P4_136487_15652	NW_004516017.1	Scaffold587	15652	TT	AA	1946962817
SNP_P4_136488_15797	NW_004516017.1	Scaffold587	15797	CC	TT	1946962819
SNP_P4_136489_16027	NW_004516017.1	Scaffold587	16027	CC	GG	1946962821
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SNP_P4_136492_16143	NW_004516017.1	Scaffold587	16143	TT	GG	1946962827
SNP_P4_136493_16218	NW_004516017.1	Scaffold587	16218	TT	CC	1946962829
SNP_P4_136494_16227	NW_004516017.1	Scaffold587	16227	AA	GG	1946962831
SNP_P4_136495_16290	NW_004516017.1	Scaffold587	16290	CC	AA	1946962833
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_136499_16662	NW_004516017.1	Scaffold587	16662	TT	CC	1946962841
SNP_P4_136500_16754	NW_004516017.1	Scaffold587	16754	TT	AA	1946962843
SNP_P4_136501_16766	NW_004516017.1	Scaffold587	16766	TT	CC	1946962845
SNP_P4_136502_17131	NW_004516017.1	Scaffold587	17131	TT	CC	1946962847
SNP_P4_136503_17150	NW_004516017.1	Scaffold587	17150	CC	TT	1946962849
SNP_P4_136505_17249	NW_004516017.1	Scaffold587	17249	CC	TT	1946962851
SNP_P4_136506_17334	NW_004516017.1	Scaffold587	17334	GG	TT	1946962853
SNP_P4_136507_17462	NW_004516017.1	Scaffold587	17462	CC	TT	1946962855
SNP_P4_136508_17515	NW_004516017.1	Scaffold587	17515	GG	AA	1946962857
SNP_P4_136509_17537	NW_004516017.1	Scaffold587	17537	TT	GG	1946962859
SNP_P4_136510_17570	NW_004516017.1	Scaffold587	17570	AA	CC	1946962861
SNP_P4_136511_17591	NW_004516017.1	Scaffold587	17591	CC	TT	1946962863
SNP_P4_136512_17603	NW_004516017.1	Scaffold587	17603	CC	TT	1946962865
SNP_P4_136513_17625	NW_004516017.1	Scaffold587	17625	AA	GG	1946962867
SNP_P4_136514_17965	NW_004516017.1	Scaffold587	17965	CC	GG	1946962869
SNP_P4_136515_18045	NW_004516017.1	Scaffold587	18045	GG	TT	1946962871
SNP_P4_136516_18046	NW_004516017.1	Scaffold587	18046	AA	GG	1946962873
SNP_P4_136518_19432	NW_004516017.1	Scaffold587	19432	CC	AA	1946962875
SNP_P4_136519_19638	NW_004516017.1	Scaffold587	19638	AA	CC	1946962877
SNP_P4_136520_19641	NW_004516017.1	Scaffold587	19641	AA	TT	1946962879
SNP_P4_136521_19702	NW_004516017.1	Scaffold587	19702	TT	CC	1946962881
SNP_P4_136522_19737	NW_004516017.1	Scaffold587	19737	GG	AA	1946962883
SNP_P4_136523_19755	NW_004516017.1	Scaffold587	19755	CC	TT	1946962885
SNP_P4_136524_19757	NW_004516017.1	Scaffold587	19757	AA	GG	1946962887
SNP_P4_136525_19821	NW_004516017.1	Scaffold587	19821	CC	TT	1946962889
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SNP_P4_136528_19868	NW_004516017.1	Scaffold587	19868	CC	AA	1946962895
SNP_P4_136529_19869	NW_004516017.1	Scaffold587	19869	AA	CC	1946962897
SNP_P4_136530_19901	NW_004516017.1	Scaffold587	19901	TT	CC	1946962899
SNP_P4_136531_19930	NW_004516017.1	Scaffold587	19930	TT	GG	1946962901
SNP_P4_136532_22406	NW_004516017.1	Scaffold587	22406	TT	CC	1946962903
SNP_P4_136533_22408	NW_004516017.1	Scaffold587	22408	AA	GG	1946962905
SNP_P4_136534_22430	NW_004516017.1	Scaffold587	22430	GG	TT	1946962907
SNP_P4_136535_22442	NW_004516017.1	Scaffold587	22442	GG	AA	1946962909
SNP_P4_136536_22486	NW_004516017.1	Scaffold587	22486	CC	TT	1946962911
SNP_P4_136537_22498	NW_004516017.1	Scaffold587	22498	CC	TT	1946962913
SNP_P4_136538_22508	NW_004516017.1	Scaffold587	22508	AA	TT	1946962915
SNP_P4_136539_22544	NW_004516017.1	Scaffold587	22544	CC	TT	1946962917
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_136543_22726	NW_004516017.1	Scaffold587	22726	AA	GG	1946962926
SNP_P4_136544_22821	NW_004516017.1	Scaffold587	22821	GG	AA	1946962928
SNP_P4_136545_22837	NW_004516017.1	Scaffold587	22837	CC	TT	1946962930
SNP_P4_136546_22934	NW_004516017.1	Scaffold587	22934	GG	AA	1946962932
SNP_P4_136547_22948	NW_004516017.1	Scaffold587	22948	TT	AA	1946962934
SNP_P4_136548_27767	NW_004516017.1	Scaffold587	27767	AA	GG	1946962936
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SNP_P4_136550_27876	NW_004516017.1	Scaffold587	27876	AA	TT	1946962940
SNP_P4_136551_28052	NW_004516017.1	Scaffold587	28052	AA	CC	1946962942
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SNP_P4_136553_28405	NW_004516017.1	Scaffold587	28405	AA	CC	1946962946
SNP_P4_136554_28611	NW_004516017.1	Scaffold587	28611	AA	GG	1946962948
SNP_P4_136556_29465	NW_004516017.1	Scaffold587	29465	AA	GG	1946962950
SNP_P4_136557_29489	NW_004516017.1	Scaffold587	29489	AA	GG	1946962952
SNP_P4_136558_29857	NW_004516017.1	Scaffold587	29857	AA	GG	1946962954
SNP_P4_136559_30689	NW_004516017.1	Scaffold587	30689	AA	TT	1946962956
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SNP_P4_136580_32294	NW_004516017.1	Scaffold587	32294	AA	GG	1946962998
SNP_P4_136581_34659	NW_004516017.1	Scaffold587	34659	CC	TT	1946963000
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_136588_35474	NW_004516017.1	Scaffold587	35474	GG	TT	1946963012
SNP_P4_136589_36276	NW_004516017.1	Scaffold587	36276	AA	TT	1946963014
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SNP_P4_136598_38683	NW_004516017.1	Scaffold587	38683	AA	GG	1946963032
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SNP_P4_136600_38935	NW_004516017.1	Scaffold587	38935	AA	GG	1946963036
SNP_P4_136601_38987	NW_004516017.1	Scaffold587	38987	GG	AA	1946963038
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SNP_P4_136610_40813	NW_004516017.1	Scaffold587	40813	TT	CC	1946963056
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SNP_P4_136612_40990	NW_004516017.1	Scaffold587	40990	GG	TT	1946963060
SNP_P4_136613_41073	NW_004516017.1	Scaffold587	41073	AA	GG	1946963062
SNP_P4_136614_41177	NW_004516017.1	Scaffold587	41177	AA	GG	1946963064
SNP_P4_136615_41214	NW_004516017.1	Scaffold587	41214	CC	TT	1946963066
SNP_P4_136616_41215	NW_004516017.1	Scaffold587	41215	GG	AA	1946963068
SNP_P4_136617_41221	NW_004516017.1	Scaffold587	41221	CC	TT	1946963070
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SNP_P4_136619_41294	NW_004516017.1	Scaffold587	41294	TT	CC	1946963074
SNP_P4_136620_41617	NW_004516017.1	Scaffold587	41617	AA	GG	1946963076
SNP_P4_136621_41967	NW_004516017.1	Scaffold587	41967	AA	TT	1946963078
SNP_P4_136622_41973	NW_004516017.1	Scaffold587	41973	AA	TT	1946963080
SNP_P4_136623_42772	NW_004516017.1	Scaffold587	42772	GG	AA	1946963082
SNP_P4_136624_43021	NW_004516017.1	Scaffold587	43021	CC	TT	1946963084
SNP_P4_136625_45288	NW_004516017.1	Scaffold587	45288	TT	AA	1946963086
SNP_P4_136626_45303	NW_004516017.1	Scaffold587	45303	AA	GG	1946963088

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_136628_45359	NW_004516017.1	Scaffold587	45359	AA	GG	1946963092
SNP_P4_136629_45362	NW_004516017.1	Scaffold587	45362	GG	CC	1946963094
SNP_P4_136630_45406	NW_004516017.1	Scaffold587	45406	TT	AA	1946963096
SNP_P4_136631_45438	NW_004516017.1	Scaffold587	45438	CC	GG	1946963098
SNP_P4_136632_45521	NW_004516017.1	Scaffold587	45521	TT	CC	1946963100
SNP_P4_136633_45523	NW_004516017.1	Scaffold587	45523	TT	GG	1946963102
SNP_P4_136634_45657	NW_004516017.1	Scaffold587	45657	CC	TT	1946963104
SNP_P4_136635_45663	NW_004516017.1	Scaffold587	45663	GG	TT	1946963106
SNP_P4_136636_46881	NW_004516017.1	Scaffold587	46881	AA	CC	1946963108
SNP_P4_136637_47166	NW_004516017.1	Scaffold587	47166	CC	TT	1946963110
SNP_P4_136638_47168	NW_004516017.1	Scaffold587	47168	CC	TT	1946963112
SNP_P4_136639_47234	NW_004516017.1	Scaffold587	47234	TT	CC	1946963114
SNP_P4_136640_47277	NW_004516017.1	Scaffold587	47277	AA	GG	1946963116
SNP_P4_136641_47281	NW_004516017.1	Scaffold587	47281	CC	AA	1946963118
SNP_P4_136642_47295	NW_004516017.1	Scaffold587	47295	CC	AA	1946963120
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SNP_P4_136645_47321	NW_004516017.1	Scaffold587	47321	TT	CC	1946963126
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SNP_P4_136649_47364	NW_004516017.1	Scaffold587	47364	AA	GG	1946963134
SNP_P4_136650_47526	NW_004516017.1	Scaffold587	47526	AA	CC	1946963136
SNP_P4_136651_47569	NW_004516017.1	Scaffold587	47569	AA	GG	1946963138
SNP_P4_136652_47666	NW_004516017.1	Scaffold587	47666	TT	AA	1946963140
SNP_P4_136653_48527	NW_004516017.1	Scaffold587	48527	GG	AA	1946963142
SNP_P4_136654_48531	NW_004516017.1	Scaffold587	48531	TT	AA	1946963144
SNP_P4_136655_48604	NW_004516017.1	Scaffold587	48604	GG	CC	1946963146
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SNP_P4_136658_48852	NW_004516017.1	Scaffold587	48852	AA	GG	1946963152
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SNP_P4_136660_49049	NW_004516017.1	Scaffold587	49049	AA	GG	1946963156
SNP_P4_136661_49341	NW_004516017.1	Scaffold587	49341	CC	TT	1946963158
SNP_P4_136662_49368	NW_004516017.1	Scaffold587	49368	AA	GG	1946963160
SNP_P4_136663_49564	NW_004516017.1	Scaffold587	49564	GG	AA	1946963162
SNP_P4_136664_50338	NW_004516017.1	Scaffold587	50338	AA	CC	1946963164
SNP_P4_136665_50467	NW_004516017.1	Scaffold587	50467	TT	GG	1946963166
SNP_P4_136666_50507	NW_004516017.1	Scaffold587	50507	TT	GG	1946963168
SNP_P4_136667_50512	NW_004516017.1	Scaffold587	50512	GG	AA	1946963170
SNP_P4_136668_50529	NW_004516017.1	Scaffold587	50529	AA	TT	1946963172

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_136670_50590	NW_004516017.1	Scaffold587	50590	GG	AA	1946963176
SNP_P4_136671_50673	NW_004516017.1	Scaffold587	50673	AA	GG	1946963178
SNP_P4_136672_50710	NW_004516017.1	Scaffold587	50710	AA	GG	1946963180
SNP_P4_136673_50760	NW_004516017.1	Scaffold587	50760	AA	GG	1946963182
SNP_P4_136674_50763	NW_004516017.1	Scaffold587	50763	GG	AA	1946963184
SNP_P4_136675_50771	NW_004516017.1	Scaffold587	50771	GG	AA	1946963186
SNP_P4_136677_50913	NW_004516017.1	Scaffold587	50913	CC	TT	1946963188
SNP_P4_136678_50929	NW_004516017.1	Scaffold587	50929	TT	GG	1946963190
SNP_P4_136679_50966	NW_004516017.1	Scaffold587	50966	CC	TT	1946963192
SNP_P4_136680_50984	NW_004516017.1	Scaffold587	50984	AA	GG	1946963194
SNP_P4_136682_51095	NW_004516017.1	Scaffold587	51095	AA	GG	1946963196
SNP_P4_136683_51151	NW_004516017.1	Scaffold587	51151	AA	GG	1946963198
SNP_P4_136684_51181	NW_004516017.1	Scaffold587	51181	TT	CC	1946963200
SNP_P4_136685_51213	NW_004516017.1	Scaffold587	51213	GG	AA	1946963202
SNP_P4_136686_51231	NW_004516017.1	Scaffold587	51231	GG	TT	1946963204
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SNP_P4_136688_52638	NW_004516017.1	Scaffold587	52638	GG	AA	1946963208
SNP_P4_136689_52660	NW_004516017.1	Scaffold587	52660	AA	GG	1946963210
SNP_P4_136690_52714	NW_004516017.1	Scaffold587	52714	TT	AA	1946963212
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SNP_P4_136696_53152	NW_004516017.1	Scaffold587	53152	CC	TT	1946963222
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SNP_P4_136698_53581	NW_004516017.1	Scaffold587	53581	AA	GG	1946963226
SNP_P4_136699_53585	NW_004516017.1	Scaffold587	53585	CC	TT	1946963228
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SNP_P4_136701_53589	NW_004516017.1	Scaffold587	53589	AA	CC	1946963232
SNP_P4_136702_53624	NW_004516017.1	Scaffold587	53624	AA	CC	1946963234
SNP_P4_136703_53664	NW_004516017.1	Scaffold587	53664	CC	TT	1946963236
SNP_P4_136704_53669	NW_004516017.1	Scaffold587	53669	AA	GG	1946963238
SNP_P4_136705_53705	NW_004516017.1	Scaffold587	53705	GG	AA	1946963240
SNP_P4_136706_53903	NW_004516017.1	Scaffold587	53903	AA	GG	1946963242
SNP_P4_136708_53968	NW_004516017.1	Scaffold587	53968	AA	GG	1946963244
SNP_P4_136709_54311	NW_004516017.1	Scaffold587	54311	GG	TT	1946963246
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SNP_P4_136711_54331	NW_004516017.1	Scaffold587	54331	TT	CC	1946963250
SNP_P4_136712_54359	NW_004516017.1	Scaffold587	54359	AA	GG	1946963252
SNP_P4_136713_54594	NW_004516017.1	Scaffold587	54594	AA	GG	1946963254
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_136718_55015	NW_004516017.1	Scaffold587	55015	GG	AA	1946963262
SNP_P4_136719_55223	NW_004516017.1	Scaffold587	55223	GG	TT	1946963264
SNP_P4_136720_55245	NW_004516017.1	Scaffold587	55245	TT	GG	1946963266
SNP_P4_136721_55260	NW_004516017.1	Scaffold587	55260	GG	AA	1946963268
SNP_P4_136722_55317	NW_004516017.1	Scaffold587	55317	GG	AA	1946963270
SNP_P4_136723_55435	NW_004516017.1	Scaffold587	55435	GG	TT	1946963272
SNP_P4_136724_55525	NW_004516017.1	Scaffold587	55525	CC	GG	1946963274
SNP_P4_136726_55547	NW_004516017.1	Scaffold587	55547	TT	CC	1946963276
SNP_P4_136727_55645	NW_004516017.1	Scaffold587	55645	TT	GG	1946963278
SNP_P4_136728_55671	NW_004516017.1	Scaffold587	55671	CC	TT	1946963280
SNP_P4_136729_55747	NW_004516017.1	Scaffold587	55747	CC	TT	1946963282
SNP_P4_136730_55963	NW_004516017.1	Scaffold587	55963	AA	GG	1946963284
SNP_P4_136731_56042	NW_004516017.1	Scaffold587	56042	GG	AA	1946963286
SNP_P4_136733_61439	NW_004516017.1	Scaffold587	61439	AA	TT	1946963288
SNP_P4_136734_61883	NW_004516017.1	Scaffold587	61883	AA	TT	1946963290
SNP_P4_136735_70167	NW_004516017.1	Scaffold587	70167	AA	TT	1946963292
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SNP_P4_136738_70386	NW_004516017.1	Scaffold587	70386	GG	TT	1946963298
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SNP_P4_136740_70522	NW_004516017.1	Scaffold587	70522	GG	AA	1946963302
SNP_P4_136741_70658	NW_004516017.1	Scaffold587	70658	CC	GG	1946963304
SNP_P4_136742_70978	NW_004516017.1	Scaffold587	70978	AA	GG	1946963306
SNP_P4_136743_71203	NW_004516017.1	Scaffold587	71203	TT	CC	1946963308
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SNP_P4_136748_14381	NW_004516018.1	Scaffold588	14381	CC	GG	1946963318
SNP_P4_136749_14415	NW_004516018.1	Scaffold588	14415	CC	TT	1946963320
SNP_P4_136750_14436	NW_004516018.1	Scaffold588	14436	CC	GG	1946963322
SNP_P4_136751_14474	NW_004516018.1	Scaffold588	14474	TT	CC	1946963324
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SNP_P4_136759_43992	NW_004516019.1	Scaffold589	43992	GG	AA	1946963336
SNP_P4_136760_43997	NW_004516019.1	Scaffold589	43997	CC	GG	1946963339
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_136764_49185	NW_004516019.1	Scaffold589	49185	CC	TT	1946963347
SNP_P4_136765_49197	NW_004516019.1	Scaffold589	49197	AA	GG	1946963349
SNP_P4_136766_49238	NW_004516019.1	Scaffold589	49238	GG	AA	1946963351
SNP_P4_136767_49241	NW_004516019.1	Scaffold589	49241	AA	CC	1946963353
SNP_P4_136768_49302	NW_004516019.1	Scaffold589	49302	AA	TT	1946963355
SNP_P4_136769_49414	NW_004516019.1	Scaffold589	49414	AA	TT	1946963357
SNP_P4_136770_49439	NW_004516019.1	Scaffold589	49439	TT	CC	1946963359
SNP_P4_136771_51327	NW_004516019.1	Scaffold589	51327	TT	AA	1946963361
SNP_P4_136772_51363	NW_004516019.1	Scaffold589	51363	CC	TT	1946963363
SNP_P4_136773_65221	NW_004516019.1	Scaffold589	65221	AA	TT	1946963365
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SNP_P4_136775_65417	NW_004516019.1	Scaffold589	65417	CC	TT	1946963369
SNP_P4_136776_65440	NW_004516019.1	Scaffold589	65440	CC	TT	1946963371
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SNP_P4_136779_65567	NW_004516019.1	Scaffold589	65567	AA	GG	1946963377
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SNP_P4_136800_83500	NW_004516019.1	Scaffold589	83500	AA	GG	1946963414
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SNP_P4_136802_83551	NW_004516019.1	Scaffold589	83551	CC	TT	1946963418
SNP_P4_136803_83554	NW_004516019.1	Scaffold589	83554	TT	CC	1946963420
SNP_P4_136804_83566	NW_004516019.1	Scaffold589	83566	TT	CC	1946963422
SNP_P4_136805_83599	NW_004516019.1	Scaffold589	83599	CC	TT	1946963424

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_136808_83640	NW_004516019.1	Scaffold589	83640	AA	CC	1946963430
SNP_P4_136810_83665	NW_004516019.1	Scaffold589	83665	TT	AA	1946963432
SNP_P4_136812_95320	NW_004516019.1	Scaffold589	95320	GG	AA	1946963434
SNP_P4_136813_100528	NW_004516019.1	Scaffold589	100528	CC	TT	1946963436
SNP_P4_136814_100814	NW_004516019.1	Scaffold589	100814	AA	CC	1946963438
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SNP_P4_136816_100831	NW_004516019.1	Scaffold589	100831	CC	TT	1946963442
SNP_P4_136817_100903	NW_004516019.1	Scaffold589	100903	AA	CC	1946963444
SNP_P4_136820_107396	NW_004516019.1	Scaffold589	107396	AA	TT	1946963446
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SNP_P4_136823_128139	NW_004516019.1	Scaffold589	128139	CC	AA	1946963452
SNP_P4_136824_128228	NW_004516019.1	Scaffold589	128228	GG	AA	1946963454
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SNP_P4_136826_138110	NW_004516019.1	Scaffold589	138110	CC	AA	1946963458
SNP_P4_136827_138158	NW_004516019.1	Scaffold589	138158	GG	AA	1946963460
SNP_P4_136828_138690	NW_004516019.1	Scaffold589	138690	CC	TT	1946963462
SNP_P4_136829_188707	NW_004516019.1	Scaffold589	188707	GG	AA	1946963464
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SNP_P4_136832_208971	NW_004516019.1	Scaffold589	208971	TT	CC	1946963468
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SNP_P4_136835_231445	NW_004516019.1	Scaffold589	231445	CC	TT	1946963472
SNP_P4_136836_238411	NW_004516019.1	Scaffold589	238411	GG	AA	1946963474
SNP_P4_136837_238419	NW_004516019.1	Scaffold589	238419	TT	GG	1946963476
SNP_P4_136838_245152	NW_004516019.1	Scaffold589	245152	CC	TT	1946963478
SNP_P4_136839_245205	NW_004516019.1	Scaffold589	245205	AA	CC	1946963480
SNP_P4_136840_245214	NW_004516019.1	Scaffold589	245214	CC	TT	1946963482
SNP_P4_136841_245223	NW_004516019.1	Scaffold589	245223	TT	AA	1946963484
SNP_P4_136842_245278	NW_004516019.1	Scaffold589	245278	CC	AA	1946963486
SNP_P4_136843_245382	NW_004516019.1	Scaffold589	245382	CC	TT	1946963488
SNP_P4_136844_245390	NW_004516019.1	Scaffold589	245390	AA	GG	1946963490
SNP_P4_136845_245429	NW_004516019.1	Scaffold589	245429	AA	GG	1946963492
SNP_P4_136846_245457	NW_004516019.1	Scaffold589	245457	TT	CC	1946963494
SNP_P4_136847_245494	NW_004516019.1	Scaffold589	245494	GG	AA	1946963496
SNP_P4_136848_245519	NW_004516019.1	Scaffold589	245519	AA	GG	1946963498
SNP_P4_136849_245524	NW_004516019.1	Scaffold589	245524	CC	AA	1946963500
SNP_P4_136850_245544	NW_004516019.1	Scaffold589	245544	AA	GG	1946963502
SNP_P4_136851_245587	NW_004516019.1	Scaffold589	245587	AA	GG	1946963504
SNP_P4_136852_245594	NW_004516019.1	Scaffold589	245594	AA	GG	1946963506
SNP_P4_136853_245634	NW_004516019.1	Scaffold589	245634	TT	GG	1946963508

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_136855_245797	NW_004516019.1	Scaffold589	245797	TT	CC	1946963512
SNP_P4_136856_256178	NW_004516019.1	Scaffold589	256178	CC	TT	1946963514
SNP_P4_136857_278689	NW_004516019.1	Scaffold589	278689	CC	TT	1946963516
SNP_P4_136858_278691	NW_004516019.1	Scaffold589	278691	AA	GG	1946963518
SNP_P4_136859_278988	NW_004516019.1	Scaffold589	278988	CC	TT	1946963520
SNP_P4_136860_292470	NW_004516019.1	Scaffold589	292470	AA	GG	1946963591
SNP_P4_136861_292471	NW_004516019.1	Scaffold589	292471	TT	CC	1946963593
SNP_P4_136862_292758	NW_004516019.1	Scaffold589	292758	GG	TT	1946963595
SNP_P4_136863_292841	NW_004516019.1	Scaffold589	292841	GG	AA	1946963597
SNP_P4_136864_304809	NW_004516019.1	Scaffold589	304809	TT	GG	1946963599
SNP_P4_136865_304889	NW_004516019.1	Scaffold589	304889	TT	GG	1946963601
SNP_P4_136866_305138	NW_004516019.1	Scaffold589	305138	AA	TT	1946963603
SNP_P4_136867_305188	NW_004516019.1	Scaffold589	305188	AA	GG	1946963605
SNP_P4_136868_306209	NW_004516019.1	Scaffold589	306209	CC	GG	1946963607
SNP_P4_136869_307302	NW_004516019.1	Scaffold589	307302	GG	AA	1946963609
SNP_P4_136870_309088	NW_004516019.1	Scaffold589	309088	TT	AA	1946963611
SNP_P4_136872_322458	NW_004516019.1	Scaffold589	322458	TT	CC	1946963613
SNP_P4_136873_322923	NW_004516019.1	Scaffold589	322923	CC	GG	1946963615
SNP_P4_136874_322943	NW_004516019.1	Scaffold589	322943	AA	GG	1946963617
SNP_P4_136875_322955	NW_004516019.1	Scaffold589	322955	CC	TT	1946963619
SNP_P4_136876_323153	NW_004516019.1	Scaffold589	323153	AA	GG	1946963621
SNP_P4_136877_323323	NW_004516019.1	Scaffold589	323323	GG	AA	1946963623
SNP_P4_136878_323440	NW_004516019.1	Scaffold589	323440	TT	CC	1946963625
SNP_P4_136879_323507	NW_004516019.1	Scaffold589	323507	AA	CC	1946963627
SNP_P4_136881_323537	NW_004516019.1	Scaffold589	323537	CC	GG	1946963629
SNP_P4_136882_323550	NW_004516019.1	Scaffold589	323550	GG	AA	1946963631
SNP_P4_136884_332463	NW_004516019.1	Scaffold589	332463	CC	TT	1946963633
SNP_P4_136885_332662	NW_004516019.1	Scaffold589	332662	TT	CC	1946963635
SNP_P4_136886_332710	NW_004516019.1	Scaffold589	332710	TT	CC	1946963637
SNP_P4_136888_3600	NW_004516020.1	Scaffold590	3600	AA	CC	1946963639
SNP_P4_136889_3643	NW_004516020.1	Scaffold590	3643	TT	CC	1946963641
SNP_P4_136890_3646	NW_004516020.1	Scaffold590	3646	TT	AA	1946963643
SNP_P4_136891_3723	NW_004516020.1	Scaffold590	3723	GG	AA	1946963645
SNP_P4_136892_3737	NW_004516020.1	Scaffold590	3737	GG	AA	1946963647
SNP_P4_136893_3771	NW_004516020.1	Scaffold590	3771	GG	AA	1946963649
SNP_P4_136894_3784	NW_004516020.1	Scaffold590	3784	GG	TT	1946963651
SNP_P4_136895_3786	NW_004516020.1	Scaffold590	3786	CC	AA	1946963653
SNP_P4_136896_3861	NW_004516020.1	Scaffold590	3861	GG	TT	1946963655
SNP_P4_136897_4528	NW_004516020.1	Scaffold590	4528	GG	AA	1946963657
SNP_P4_136898_4908	NW_004516020.1	Scaffold590	4908	TT	AA	1946963659
SNP_P4_136899_4930	NW_004516020.1	Scaffold590	4930	GG	AA	1946963661

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_136901_8014	NW_004516020.1	Scaffold590	8014	AA	GG	1946963665
SNP_P4_136902_12939	NW_004516020.1	Scaffold590	12939	CC	TT	1946963667
SNP_P4_136903_13175	NW_004516020.1	Scaffold590	13175	TT	GG	1946963669
SNP_P4_136904_13206	NW_004516020.1	Scaffold590	13206	TT	AA	1946963671
SNP_P4_136905_14109	NW_004516020.1	Scaffold590	14109	AA	CC	1946963673
SNP_P4_136906_16816	NW_004516020.1	Scaffold590	16816	AA	CC	1946963675
SNP_P4_136907_16887	NW_004516020.1	Scaffold590	16887	CC	AA	1946963677
SNP_P4_136909_19016	NW_004516020.1	Scaffold590	19016	TT	CC	1946963679
SNP_P4_136910_19098	NW_004516020.1	Scaffold590	19098	CC	TT	1946963681
SNP_P4_136911_19173	NW_004516020.1	Scaffold590	19173	TT	CC	1946963683
SNP_P4_136914_19347	NW_004516020.1	Scaffold590	19347	TT	GG	1946963685
SNP_P4_136915_19399	NW_004516020.1	Scaffold590	19399	GG	AA	1946963687
SNP_P4_136916_19440	NW_004516020.1	Scaffold590	19440	TT	CC	1946963689
SNP_P4_136917_19443	NW_004516020.1	Scaffold590	19443	AA	CC	1946963691
SNP_P4_136918_19448	NW_004516020.1	Scaffold590	19448	TT	AA	1946963693
SNP_P4_136920_19480	NW_004516020.1	Scaffold590	19480	AA	TT	1946963695
SNP_P4_136921_19508	NW_004516020.1	Scaffold590	19508	CC	AA	1946963697
SNP_P4_136922_19552	NW_004516020.1	Scaffold590	19552	AA	GG	1946963699
SNP_P4_136923_19572	NW_004516020.1	Scaffold590	19572	GG	CC	1946963701
SNP_P4_136924_19619	NW_004516020.1	Scaffold590	19619	AA	CC	1946963703
SNP_P4_136925_44108	NW_004516020.1	Scaffold590	44108	AA	GG	1946963705
SNP_P4_136926_44756	NW_004516020.1	Scaffold590	44756	AA	GG	1946963706
SNP_P4_136927_44815	NW_004516020.1	Scaffold590	44815	CC	TT	1946963708
SNP_P4_136928_45628	NW_004516020.1	Scaffold590	45628	CC	AA	1946963710
SNP_P4_136929_46475	NW_004516020.1	Scaffold590	46475	AA	GG	1946963712
SNP_P4_136930_46479	NW_004516020.1	Scaffold590	46479	AA	GG	1946963714
SNP_P4_136931_46500	NW_004516020.1	Scaffold590	46500	TT	CC	1946963716
SNP_P4_136933_46773	NW_004516020.1	Scaffold590	46773	TT	CC	1946963718
SNP_P4_136934_61241	NW_004516020.1	Scaffold590	61241	TT	CC	1946963720
SNP_P4_136935_61249	NW_004516020.1	Scaffold590	61249	TT	AA	1946963722
SNP_P4_136936_61269	NW_004516020.1	Scaffold590	61269	AA	GG	1946963724
SNP_P4_136937_61272	NW_004516020.1	Scaffold590	61272	TT	CC	1946963726
SNP_P4_136938_61273	NW_004516020.1	Scaffold590	61273	AA	CC	1946963728
SNP_P4_136939_61300	NW_004516020.1	Scaffold590	61300	TT	CC	1946963730
SNP_P4_136940_61332	NW_004516020.1	Scaffold590	61332	TT	CC	1946963732
SNP_P4_136941_61335	NW_004516020.1	Scaffold590	61335	GG	TT	1946963734
SNP_P4_136942_61402	NW_004516020.1	Scaffold590	61402	AA	CC	1946963736
SNP_P4_136943_63846	NW_004516020.1	Scaffold590	63846	GG	CC	1946963738
SNP_P4_136944_80534	NW_004516020.1	Scaffold590	80534	AA	GG	1946963740
SNP_P4_136945_89033	NW_004516020.1	Scaffold590	89033	TT	GG	1946963742
SNP_P4_136946_89298	NW_004516020.1	Scaffold590	89298	GG	AA	1946963744

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_136948_103211	NW_004516020.1	Scaffold590	103211	CC	TT	1946963748
SNP_P4_136949_106353	NW_004516020.1	Scaffold590	106353	GG	AA	1946963750
SNP_P4_136950_107892	NW_004516020.1	Scaffold590	107892	GG	AA	1946963752
SNP_P4_136951_112515	NW_004516020.1	Scaffold590	112515	GG	AA	1946963754
SNP_P4_136952_114880	NW_004516020.1	Scaffold590	114880	AA	GG	1946963756
SNP_P4_136953_114957	NW_004516020.1	Scaffold590	114957	AA	CC	1946963758
SNP_P4_136954_115864	NW_004516020.1	Scaffold590	115864	GG	TT	1946963760
SNP_P4_136955_115898	NW_004516020.1	Scaffold590	115898	AA	GG	1946963762
SNP_P4_136956_115913	NW_004516020.1	Scaffold590	115913	TT	CC	1946963764
SNP_P4_136957_115961	NW_004516020.1	Scaffold590	115961	GG	AA	1946963766
SNP_P4_136958_115975	NW_004516020.1	Scaffold590	115975	TT	GG	1946963768
SNP_P4_136959_134363	NW_004516020.1	Scaffold590	134363	TT	GG	1946963770
SNP_P4_136960_134614	NW_004516020.1	Scaffold590	134614	AA	CC	1946963772
SNP_P4_136961_134625	NW_004516020.1	Scaffold590	134625	TT	CC	1946963774
SNP_P4_136962_134735	NW_004516020.1	Scaffold590	134735	GG	AA	1946963776
SNP_P4_136963_134740	NW_004516020.1	Scaffold590	134740	CC	AA	1946963778
SNP_P4_136964_134977	NW_004516020.1	Scaffold590	134977	AA	GG	1946963779
SNP_P4_136965_134980	NW_004516020.1	Scaffold590	134980	AA	GG	1946963781
SNP_P4_136966_141141	NW_004516020.1	Scaffold590	141141	AA	GG	1946963783
SNP_P4_136967_146190	NW_004516020.1	Scaffold590	146190	GG	AA	1946963785
SNP_P4_136968_146201	NW_004516020.1	Scaffold590	146201	AA	GG	1946963787
SNP_P4_136969_146205	NW_004516020.1	Scaffold590	146205	GG	AA	1946963789
SNP_P4_136970_146207	NW_004516020.1	Scaffold590	146207	GG	AA	1946963791
SNP_P4_136971_146208	NW_004516020.1	Scaffold590	146208	TT	CC	1946963793
SNP_P4_136972_146211	NW_004516020.1	Scaffold590	146211	CC	TT	1946963795
SNP_P4_136973_152972	NW_004516020.1	Scaffold590	152972	TT	AA	1946963797
SNP_P4_136974_175334	NW_004516020.1	Scaffold590	175334	GG	AA	1946963799
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SNP_P4_136976_175630	NW_004516020.1	Scaffold590	175630	TT	AA	1946963803
SNP_P4_136977_175634	NW_004516020.1	Scaffold590	175634	CC	TT	1946963805
SNP_P4_136978_175643	NW_004516020.1	Scaffold590	175643	AA	CC	1946963807
SNP_P4_136979_175655	NW_004516020.1	Scaffold590	175655	AA	GG	1946963809
SNP_P4_136980_175668	NW_004516020.1	Scaffold590	175668	AA	CC	1946963811
SNP_P4_136981_175675	NW_004516020.1	Scaffold590	175675	AA	GG	1946963813
SNP_P4_136982_175680	NW_004516020.1	Scaffold590	175680	TT	CC	1946963815
SNP_P4_136983_175809	NW_004516020.1	Scaffold590	175809	TT	CC	1946963817
SNP_P4_136984_177716	NW_004516020.1	Scaffold590	177716	AA	GG	1946963820
SNP_P4_136985_177721	NW_004516020.1	Scaffold590	177721	CC	TT	1946963822
SNP_P4_136986_177752	NW_004516020.1	Scaffold590	177752	TT	GG	1946963824
SNP_P4_136987_177784	NW_004516020.1	Scaffold590	177784	AA	GG	1946963826
SNP_P4_136988_177797	NW_004516020.1	Scaffold590	177797	GG	TT	1946963828

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_136990_220689	NW_004516020.1	Scaffold590	220689	AA	GG	1946963832
SNP_P4_136991_220754	NW_004516020.1	Scaffold590	220754	TT	CC	1946963834
SNP_P4_136992_220760	NW_004516020.1	Scaffold590	220760	TT	CC	1946963836
SNP_P4_136993_220809	NW_004516020.1	Scaffold590	220809	AA	GG	1946963838
SNP_P4_136994_220837	NW_004516020.1	Scaffold590	220837	CC	AA	1946963840
SNP_P4_136995_220981	NW_004516020.1	Scaffold590	220981	GG	AA	1946963842
SNP_P4_136996_221001	NW_004516020.1	Scaffold590	221001	CC	TT	1946963844
SNP_P4_136997_221007	NW_004516020.1	Scaffold590	221007	AA	GG	1946963846
SNP_P4_136998_221011	NW_004516020.1	Scaffold590	221011	TT	CC	1946963848
SNP_P4_136999_221033	NW_004516020.1	Scaffold590	221033	GG	AA	1946963850
SNP_P4_137000_221115	NW_004516020.1	Scaffold590	221115	AA	GG	1946963852
SNP_P4_137001_222064	NW_004516020.1	Scaffold590	222064	GG	AA	1946963854
SNP_P4_137002_222160	NW_004516020.1	Scaffold590	222160	CC	TT	1946963856
SNP_P4_137003_222169	NW_004516020.1	Scaffold590	222169	CC	TT	1946963858
SNP_P4_137004_222175	NW_004516020.1	Scaffold590	222175	GG	AA	1946963860
SNP_P4_137005_222265	NW_004516020.1	Scaffold590	222265	CC	TT	1946963862
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SNP_P4_137015_222532	NW_004516020.1	Scaffold590	222532	TT	AA	1946963881
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SNP_P4_137018_233763	NW_004516020.1	Scaffold590	233763	AA	CC	1946963887
SNP_P4_137019_235402	NW_004516020.1	Scaffold590	235402	TT	AA	1946963889
SNP_P4_137020_235411	NW_004516020.1	Scaffold590	235411	CC	TT	1946963891
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SNP_P4_137022_241326	NW_004516020.1	Scaffold590	241326	TT	GG	1946963895
SNP_P4_137023_241675	NW_004516020.1	Scaffold590	241675	CC	TT	1946963897
SNP_P4_137024_241711	NW_004516020.1	Scaffold590	241711	TT	CC	1946963899
SNP_P4_137025_295295	NW_004516020.1	Scaffold590	295295	GG	TT	1946963901
SNP_P4_137026_295323	NW_004516020.1	Scaffold590	295323	GG	AA	1946963903
SNP_P4_137027_8245	NW_004516022.1	Scaffold592	8245	CC	GG	1946963905
SNP_P4_137028_8267	NW_004516022.1	Scaffold592	8267	AA	TT	1946963907
SNP_P4_137029_8317	NW_004516022.1	Scaffold592	8317	TT	CC	1946963909
SNP_P4_137030_8337	NW_004516022.1	Scaffold592	8337	CC	TT	1946963911

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_137032_8425	NW_004516022.1	Scaffold592	8425	GG	AA	1946963915
SNP_P4_137033_8504	NW_004516022.1	Scaffold592	8504	GG	TT	1946963917
SNP_P4_137034_8575	NW_004516022.1	Scaffold592	8575	TT	CC	1946963919
SNP_P4_137035_8578	NW_004516022.1	Scaffold592	8578	TT	CC	1946963921
SNP_P4_137036_8614	NW_004516022.1	Scaffold592	8614	CC	TT	1946963923
SNP_P4_137037_8707	NW_004516022.1	Scaffold592	8707	AA	TT	1946963925
SNP_P4_137038_8816	NW_004516022.1	Scaffold592	8816	CC	TT	1946963927
SNP_P4_137039_8891	NW_004516022.1	Scaffold592	8891	CC	TT	1946963929
SNP_P4_137040_10312	NW_004516022.1	Scaffold592	10312	AA	TT	1946963931
SNP_P4_137041_10883	NW_004516022.1	Scaffold592	10883	TT	GG	1946963933
SNP_P4_137042_15430	NW_004516022.1	Scaffold592	15430	CC	TT	1946963935
SNP_P4_137043_15567	NW_004516022.1	Scaffold592	15567	TT	CC	1946963937
SNP_P4_137044_15766	NW_004516022.1	Scaffold592	15766	TT	AA	1946963939
SNP_P4_137045_15794	NW_004516022.1	Scaffold592	15794	CC	GG	1946963941
SNP_P4_137046_16012	NW_004516022.1	Scaffold592	16012	CC	GG	1946963943
SNP_P4_137047_16060	NW_004516022.1	Scaffold592	16060	GG	AA	1946963945
SNP_P4_137048_16964	NW_004516022.1	Scaffold592	16964	GG	TT	1946963947
SNP_P4_137049_20295	NW_004516022.1	Scaffold592	20295	CC	AA	1946963949
SNP_P4_137050_20768	NW_004516022.1	Scaffold592	20768	GG	AA	1946963951
SNP_P4_137051_20780	NW_004516022.1	Scaffold592	20780	AA	TT	1946963953
SNP_P4_137052_21423	NW_004516022.1	Scaffold592	21423	TT	CC	1946963955
SNP_P4_137053_21432	NW_004516022.1	Scaffold592	21432	GG	TT	1946963957
SNP_P4_137054_21456	NW_004516022.1	Scaffold592	21456	TT	AA	1946963959
SNP_P4_137055_21590	NW_004516022.1	Scaffold592	21590	TT	CC	1946963961
SNP_P4_137056_21698	NW_004516022.1	Scaffold592	21698	GG	AA	1946963963
SNP_P4_137057_21848	NW_004516022.1	Scaffold592	21848	CC	TT	1946963965
SNP_P4_137058_21936	NW_004516022.1	Scaffold592	21936	TT	CC	1946963967
SNP_P4_137059_22788	NW_004516022.1	Scaffold592	22788	TT	AA	1946963969
SNP_P4_137060_25680	NW_004516022.1	Scaffold592	25680	TT	AA	1946963971
SNP_P4_137061_25715	NW_004516022.1	Scaffold592	25715	CC	GG	1946963973
SNP_P4_137063_42427	NW_004516022.1	Scaffold592	42427	CC	TT	1946963975
SNP_P4_137064_42459	NW_004516022.1	Scaffold592	42459	CC	GG	1946963977
SNP_P4_137067_10458	NW_004516023.1	Scaffold593	10458	AA	TT	1946963979
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SNP_P4_137069_10609	NW_004516023.1	Scaffold593	10609	CC	TT	1946963983
SNP_P4_137070_10638	NW_004516023.1	Scaffold593	10638	CC	TT	1946963985
SNP_P4_137071_10641	NW_004516023.1	Scaffold593	10641	GG	AA	1946963987
SNP_P4_137072_10840	NW_004516023.1	Scaffold593	10840	AA	GG	1946963989
SNP_P4_137073_10947	NW_004516023.1	Scaffold593	10947	AA	GG	1946963991
SNP_P4_137074_11016	NW_004516023.1	Scaffold593	11016	AA	CC	1946963993
SNP_P4_137075_20018	NW_004516023.1	Scaffold593	20018	GG	CC	1946963995

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_137076_20041	NW_004516023.1	Scaffold593	20041	GG	AA	1946963997
SNP_P4_137077_28180	NW_004516023.1	Scaffold593	28180	TT	AA	1946963999
SNP_P4_137078_28724	NW_004516023.1	Scaffold593	28724	GG	AA	1946964001
SNP_P4_137081_126982	NW_004516023.1	Scaffold593	126982	GG	AA	1946964003
SNP_P4_137082_134749	NW_004516023.1	Scaffold593	134749	AA	GG	1946964005
SNP_P4_137083_145674	NW_004516023.1	Scaffold593	145674	AA	GG	1946964007
SNP_P4_137084_177860	NW_004516023.1	Scaffold593	177860	AA	TT	1946964009
SNP_P4_137085_192631	NW_004516023.1	Scaffold593	192631	GG	AA	1946964011
SNP_P4_137086_192652	NW_004516023.1	Scaffold593	192652	GG	AA	1946964013
SNP_P4_137087_192673	NW_004516023.1	Scaffold593	192673	AA	CC	1946964015
SNP_P4_137088_194825	NW_004516023.1	Scaffold593	194825	CC	TT	1946964017
SNP_P4_137089_194935	NW_004516023.1	Scaffold593	194935	AA	GG	1946964019
SNP_P4_137090_194946	NW_004516023.1	Scaffold593	194946	CC	TT	1946964021
SNP_P4_137091_196703	NW_004516023.1	Scaffold593	196703	CC	TT	1946964023
SNP_P4_137092_198199	NW_004516023.1	Scaffold593	198199	AA	TT	1946964025
SNP_P4_137093_201060	NW_004516023.1	Scaffold593	201060	GG	AA	1946964027
SNP_P4_137094_201063	NW_004516023.1	Scaffold593	201063	GG	AA	1946964029
SNP_P4_137095_208876	NW_004516023.1	Scaffold593	208876	TT	GG	1946964031
SNP_P4_137096_208927	NW_004516023.1	Scaffold593	208927	TT	CC	1946964033
SNP_P4_137097_208960	NW_004516023.1	Scaffold593	208960	CC	TT	1946964035
SNP_P4_137098_208980	NW_004516023.1	Scaffold593	208980	GG	CC	1946964037
SNP_P4_137099_209018	NW_004516023.1	Scaffold593	209018	AA	TT	1946964039
SNP_P4_137100_209024	NW_004516023.1	Scaffold593	209024	TT	CC	1946964041
SNP_P4_137101_209043	NW_004516023.1	Scaffold593	209043	TT	CC	1946964043
SNP_P4_137102_209056	NW_004516023.1	Scaffold593	209056	CC	AA	1946964045
SNP_P4_137103_209065	NW_004516023.1	Scaffold593	209065	CC	AA	1946964047
SNP_P4_137104_209071	NW_004516023.1	Scaffold593	209071	CC	AA	1946964048
SNP_P4_137105_209093	NW_004516023.1	Scaffold593	209093	GG	AA	1946964050
SNP_P4_137106_209096	NW_004516023.1	Scaffold593	209096	AA	GG	1946964052
SNP_P4_137107_209100	NW_004516023.1	Scaffold593	209100	TT	CC	1946964054
SNP_P4_137108_209102	NW_004516023.1	Scaffold593	209102	GG	AA	1946964056
SNP_P4_137109_209121	NW_004516023.1	Scaffold593	209121	CC	AA	1946964058
SNP_P4_137110_209152	NW_004516023.1	Scaffold593	209152	TT	CC	1946964060
SNP_P4_137111_209211	NW_004516023.1	Scaffold593	209211	CC	TT	1946964062
SNP_P4_137112_209220	NW_004516023.1	Scaffold593	209220	CC	TT	1946964064
SNP_P4_137114_209306	NW_004516023.1	Scaffold593	209306	CC	AA	1946964066
SNP_P4_137115_209312	NW_004516023.1	Scaffold593	209312	AA	TT	1946964067
SNP_P4_137116_209326	NW_004516023.1	Scaffold593	209326	AA	TT	1946964069
SNP_P4_137117_209366	NW_004516023.1	Scaffold593	209366	GG	AA	1946964071
SNP_P4_137118_209368	NW_004516023.1	Scaffold593	209368	AA	GG	1946964073
SNP_P4_137119_209463	NW_004516023.1	Scaffold593	209463	GG	AA	1946964075
SNP_P4_137121_209483	NW_004516023.1	Scaffold593	209483	CC	TT	1946964076

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_137123_209513	NW_004516023.1	Scaffold593	209513	TT	GG	1946964080
SNP_P4_137124_209551	NW_004516023.1	Scaffold593	209551	AA	TT	1946964082
SNP_P4_137125_209608	NW_004516023.1	Scaffold593	209608	GG	AA	1946964084
SNP_P4_137126_209633	NW_004516023.1	Scaffold593	209633	CC	AA	1946964086
SNP_P4_137127_209661	NW_004516023.1	Scaffold593	209661	TT	CC	1946964087
SNP_P4_137128_209684	NW_004516023.1	Scaffold593	209684	CC	TT	1946964089
SNP_P4_137130_209718	NW_004516023.1	Scaffold593	209718	TT	CC	1946964091
SNP_P4_137131_209735	NW_004516023.1	Scaffold593	209735	AA	CC	1946964093
SNP_P4_137132_209927	NW_004516023.1	Scaffold593	209927	GG	AA	1946964095
SNP_P4_137133_209934	NW_004516023.1	Scaffold593	209934	AA	TT	1946964097
SNP_P4_137134_209936	NW_004516023.1	Scaffold593	209936	GG	AA	1946964099
SNP_P4_137136_210112	NW_004516023.1	Scaffold593	210112	AA	GG	1946964101
SNP_P4_137137_210127	NW_004516023.1	Scaffold593	210127	CC	TT	1946964103
SNP_P4_137138_210149	NW_004516023.1	Scaffold593	210149	AA	GG	1946964105
SNP_P4_137139_210156	NW_004516023.1	Scaffold593	210156	CC	TT	1946964107
SNP_P4_137140_210192	NW_004516023.1	Scaffold593	210192	TT	AA	1946964109
SNP_P4_137141_210203	NW_004516023.1	Scaffold593	210203	CC	AA	1946964111
SNP_P4_137142_210217	NW_004516023.1	Scaffold593	210217	CC	AA	1946964113
SNP_P4_137143_210235	NW_004516023.1	Scaffold593	210235	AA	GG	1946964115
SNP_P4_137144_210290	NW_004516023.1	Scaffold593	210290	GG	CC	1946964117
SNP_P4_137145_210315	NW_004516023.1	Scaffold593	210315	GG	CC	1946964119
SNP_P4_137146_210347	NW_004516023.1	Scaffold593	210347	AA	GG	1946964121
SNP_P4_137147_210811	NW_004516023.1	Scaffold593	210811	CC	GG	1946964123
SNP_P4_137148_211521	NW_004516023.1	Scaffold593	211521	AA	TT	1946964125
SNP_P4_137149_211606	NW_004516023.1	Scaffold593	211606	TT	AA	1946964127
SNP_P4_137150_211609	NW_004516023.1	Scaffold593	211609	CC	TT	1946964129
SNP_P4_137152_211749	NW_004516023.1	Scaffold593	211749	TT	CC	1946964131
SNP_P4_137153_211834	NW_004516023.1	Scaffold593	211834	AA	GG	1946964133
SNP_P4_137154_211859	NW_004516023.1	Scaffold593	211859	CC	TT	1946964135
SNP_P4_137155_2343	NW_004516024.1	Scaffold594	2343	CC	AA	1946964137
SNP_P4_137156_3487	NW_004516024.1	Scaffold594	3487	GG	TT	1946964139
SNP_P4_137157_3812	NW_004516024.1	Scaffold594	3812	AA	GG	1946964141
SNP_P4_137158_6921	NW_004516028.1	Scaffold598	6921	TT	AA	1946964143
SNP_P4_137159_7807	NW_004516028.1	Scaffold598	7807	CC	AA	1946964145
SNP_P4_137160_7872	NW_004516028.1	Scaffold598	7872	GG	AA	1946964147
SNP_P4_137161_21895	NW_004516028.1	Scaffold598	21895	AA	TT	1946964149
SNP_P4_137162_21968	NW_004516028.1	Scaffold598	21968	GG	TT	1946964151
SNP_P4_137163_21991	NW_004516028.1	Scaffold598	21991	CC	TT	1946964153
SNP_P4_137164_21993	NW_004516028.1	Scaffold598	21993	TT	AA	1946964155
SNP_P4_137165_22032	NW_004516028.1	Scaffold598	22032	CC	TT	1946964157
SNP_P4_137166_22039	NW_004516028.1	Scaffold598	22039	AA	CC	1946964159

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_137168_22045	NW_004516028.1	Scaffold598	22045	AA	TT	1946964163
SNP_P4_137169_22129	NW_004516028.1	Scaffold598	22129	GG	TT	1946964165
SNP_P4_137170_37042	NW_004516028.1	Scaffold598	37042	AA	GG	1946964167
SNP_P4_137171_37047	NW_004516028.1	Scaffold598	37047	AA	GG	1946964169
SNP_P4_137172_38065	NW_004516028.1	Scaffold598	38065	GG	AA	1946964171
SNP_P4_137173_38202	NW_004516028.1	Scaffold598	38202	GG	AA	1946964173
SNP_P4_137174_46153	NW_004516028.1	Scaffold598	46153	CC	TT	1946964175
SNP_P4_137175_78628	NW_004516028.1	Scaffold598	78628	GG	AA	1946964177
SNP_P4_137176_78629	NW_004516028.1	Scaffold598	78629	TT	CC	1946964179
SNP_P4_137177_78631	NW_004516028.1	Scaffold598	78631	GG	TT	1946964181
SNP_P4_137178_79003	NW_004516028.1	Scaffold598	79003	TT	GG	1946964182
SNP_P4_137179_84135	NW_004516028.1	Scaffold598	84135	TT	AA	1946964184
SNP_P4_137181_89243	NW_004516028.1	Scaffold598	89243	AA	GG	1946964186
SNP_P4_137182_89504	NW_004516028.1	Scaffold598	89504	GG	TT	1946964188
SNP_P4_137185_95951	NW_004516028.1	Scaffold598	95951	AA	TT	1946964190
SNP_P4_137187_116189	NW_004516028.1	Scaffold598	116189	TT	CC	1946964192
SNP_P4_137188_125584	NW_004516028.1	Scaffold598	125584	TT	CC	1946964194
SNP_P4_137189_126025	NW_004516028.1	Scaffold598	126025	CC	TT	1946964196
SNP_P4_137190_126078	NW_004516028.1	Scaffold598	126078	TT	CC	1946964198
SNP_P4_137191_126090	NW_004516028.1	Scaffold598	126090	AA	TT	1946964200
SNP_P4_137192_126091	NW_004516028.1	Scaffold598	126091	TT	AA	1946964202
SNP_P4_137193_126104	NW_004516028.1	Scaffold598	126104	CC	AA	1946964204
SNP_P4_137194_131993	NW_004516028.1	Scaffold598	131993	AA	TT	1946964206
SNP_P4_137195_138174	NW_004516028.1	Scaffold598	138174	CC	TT	1946964208
SNP_P4_137196_158273	NW_004516028.1	Scaffold598	158273	AA	GG	1946964210
SNP_P4_137197_159975	NW_004516028.1	Scaffold598	159975	TT	CC	1946964212
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SNP_P4_137199_183254	NW_004516028.1	Scaffold598	183254	GG	AA	1946964216
SNP_P4_137200_183575	NW_004516028.1	Scaffold598	183575	GG	AA	1946964218
SNP_P4_137202_210635	NW_004516028.1	Scaffold598	210635	GG	TT	1946964220
SNP_P4_137203_215575	NW_004516028.1	Scaffold598	215575	AA	CC	1946964222
SNP_P4_137204_219052	NW_004516028.1	Scaffold598	219052	CC	TT	1946964224
SNP_P4_137205_223649	NW_004516028.1	Scaffold598	223649	TT	CC	1946964226
SNP_P4_137206_231064	NW_004516028.1	Scaffold598	231064	GG	AA	1946964228
SNP_P4_137207_231232	NW_004516028.1	Scaffold598	231232	CC	TT	1946964230
SNP_P4_137208_231246	NW_004516028.1	Scaffold598	231246	AA	TT	1946964232
SNP_P4_137209_231380	NW_004516028.1	Scaffold598	231380	AA	GG	1946964234
SNP_P4_137210_231425	NW_004516028.1	Scaffold598	231425	TT	CC	1946964236
SNP_P4_137211_231429	NW_004516028.1	Scaffold598	231429	AA	CC	1946964238
SNP_P4_137212_231434	NW_004516028.1	Scaffold598	231434	TT	CC	1946964240
SNP_P4_137213_231454	NW_004516028.1	Scaffold598	231454	AA	CC	1946964242

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_137215_231521	NW_004516028.1	Scaffold598	231521	TT	CC	1946964246
SNP_P4_137216_232949	NW_004516028.1	Scaffold598	232949	AA	CC	1946964248
SNP_P4_137217_236900	NW_004516028.1	Scaffold598	236900	AA	GG	1946964250
SNP_P4_137218_237519	NW_004516028.1	Scaffold598	237519	GG	TT	1946964252
SNP_P4_137219_237559	NW_004516028.1	Scaffold598	237559	GG	AA	1946964253
SNP_P4_137220_237811	NW_004516028.1	Scaffold598	237811	TT	GG	1946964255
SNP_P4_137222_245326	NW_004516028.1	Scaffold598	245326	AA	TT	1946964257
SNP_P4_137223_245344	NW_004516028.1	Scaffold598	245344	GG	AA	1946964259
SNP_P4_137225_263850	NW_004516028.1	Scaffold598	263850	AA	GG	1946964261
SNP_P4_137226_268438	NW_004516028.1	Scaffold598	268438	CC	TT	1946964263
SNP_P4_137227_268805	NW_004516028.1	Scaffold598	268805	TT	CC	1946964265
SNP_P4_137228_269160	NW_004516028.1	Scaffold598	269160	TT	CC	1946964267
SNP_P4_137230_275705	NW_004516028.1	Scaffold598	275705	GG	TT	1946964269
SNP_P4_137232_280739	NW_004516028.1	Scaffold598	280739	TT	GG	1946964271
SNP_P4_137233_281552	NW_004516028.1	Scaffold598	281552	AA	GG	1946964273
SNP_P4_137234_283422	NW_004516028.1	Scaffold598	283422	AA	TT	1946964275
SNP_P4_137235_302579	NW_004516028.1	Scaffold598	302579	AA	TT	1946964277
SNP_P4_137236_304090	NW_004516028.1	Scaffold598	304090	TT	CC	1946964279
SNP_P4_137237_304093	NW_004516028.1	Scaffold598	304093	CC	TT	1946964281
SNP_P4_137239_312318	NW_004516028.1	Scaffold598	312318	CC	GG	1946964283
SNP_P4_137240_315097	NW_004516028.1	Scaffold598	315097	CC	AA	1946964285
SNP_P4_137241_315216	NW_004516028.1	Scaffold598	315216	TT	CC	1946964287
SNP_P4_137242_315335	NW_004516028.1	Scaffold598	315335	GG	CC	1946964289
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SNP_P4_137246_328750	NW_004516028.1	Scaffold598	328750	TT	GG	1946964297
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SNP_P4_137248_355856	NW_004516028.1	Scaffold598	355856	GG	AA	1946964301
SNP_P4_137249_356272	NW_004516028.1	Scaffold598	356272	AA	CC	1946964303
SNP_P4_137250_357172	NW_004516028.1	Scaffold598	357172	TT	CC	1946964305
SNP_P4_137251_357630	NW_004516028.1	Scaffold598	357630	TT	AA	1946964307
SNP_P4_137252_358084	NW_004516028.1	Scaffold598	358084	TT	CC	1946964309
SNP_P4_137253_360748	NW_004516028.1	Scaffold598	360748	GG	AA	1946964311
SNP_P4_137254_361176	NW_004516028.1	Scaffold598	361176	CC	TT	1946964313
SNP_P4_137255_364195	NW_004516028.1	Scaffold598	364195	CC	TT	1946964315
SNP_P4_137256_367067	NW_004516028.1	Scaffold598	367067	TT	CC	1946964317
SNP_P4_137257_374435	NW_004516028.1	Scaffold598	374435	AA	TT	1946964319
SNP_P4_137258_374451	NW_004516028.1	Scaffold598	374451	GG	AA	1946964321
SNP_P4_137259_377003	NW_004516028.1	Scaffold598	377003	TT	GG	1946964322
SNP_P4_137260_380756	NW_004516028.1	Scaffold598	380756	TT	CC	1946964324

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_137263_392343	NW_004516028.1	Scaffold598	392343	GG	AA	1946964328
SNP_P4_137264_392724	NW_004516028.1	Scaffold598	392724	CC	AA	1946964330
SNP_P4_137265_394800	NW_004516028.1	Scaffold598	394800	GG	CC	1946964332
SNP_P4_137266_401706	NW_004516028.1	Scaffold598	401706	GG	AA	1946964334
SNP_P4_137267_409231	NW_004516028.1	Scaffold598	409231	GG	AA	1946964336
SNP_P4_137268_409717	NW_004516028.1	Scaffold598	409717	TT	AA	1946964338
SNP_P4_137270_423734	NW_004516028.1	Scaffold598	423734	CC	AA	1946964340
SNP_P4_137271_423772	NW_004516028.1	Scaffold598	423772	TT	AA	1946964342
SNP_P4_137272_423779	NW_004516028.1	Scaffold598	423779	GG	TT	1946964344
SNP_P4_137273_424459	NW_004516028.1	Scaffold598	424459	TT	AA	1946964346
SNP_P4_137274_434225	NW_004516028.1	Scaffold598	434225	GG	AA	1946964348
SNP_P4_137275_434231	NW_004516028.1	Scaffold598	434231	GG	AA	1946964350
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SNP_P4_137281_445378	NW_004516028.1	Scaffold598	445378	TT	CC	1946964362
SNP_P4_137282_445449	NW_004516028.1	Scaffold598	445449	TT	CC	1946964364
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SNP_P4_137284_445592	NW_004516028.1	Scaffold598	445592	TT	GG	1946964368
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SNP_P4_137302_456460	NW_004516028.1	Scaffold598	456460	GG	AA	1946964399
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SNP_P4_137304_456712	NW_004516028.1	Scaffold598	456712	CC	TT	1946964403
SNP_P4_137305_456715	NW_004516028.1	Scaffold598	456715	TT	CC	1946964405
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_137310_466034	NW_004516028.1	Scaffold598	466034	AA	GG	1946964415
SNP_P4_137312_473071	NW_004516028.1	Scaffold598	473071	AA	CC	1946964417
SNP_P4_137313_473642	NW_004516028.1	Scaffold598	473642	CC	TT	1946964419
SNP_P4_137314_475292	NW_004516028.1	Scaffold598	475292	TT	CC	1946964421
SNP_P4_137315_478016	NW_004516028.1	Scaffold598	478016	AA	GG	1946964423
SNP_P4_137317_487873	NW_004516028.1	Scaffold598	487873	AA	GG	1946964425
SNP_P4_137319_531304	NW_004516028.1	Scaffold598	531304	CC	AA	1946964427
SNP_P4_137320_533190	NW_004516028.1	Scaffold598	533190	GG	TT	1946964429
SNP_P4_137321_537658	NW_004516028.1	Scaffold598	537658	TT	AA	1946964431
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SNP_P4_137324_547594	NW_004516028.1	Scaffold598	547594	TT	AA	1946964437
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SNP_P4_137326_563088	NW_004516028.1	Scaffold598	563088	CC	TT	1946964441
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SNP_P4_137329_565444	NW_004516028.1	Scaffold598	565444	TT	CC	1946964447
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SNP_P4_137331_568491	NW_004516028.1	Scaffold598	568491	TT	CC	1946964451
SNP_P4_137333_7971	NW_004516029.1	Scaffold599	7971	CC	GG	1946964453
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SNP_P4_137337_9980	NW_004516029.1	Scaffold599	9980	CC	AA	1946964461
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SNP_P4_137347_11309	NW_004516029.1	Scaffold599	11309	AA	TT	1946964481
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SNP_P4_137350_13635	NW_004516029.1	Scaffold599	13635	TT	AA	1946964487
SNP_P4_137351_22093	NW_004516029.1	Scaffold599	22093	AA	CC	1946964489
SNP_P4_137352_22365	NW_004516029.1	Scaffold599	22365	TT	CC	1946964491

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_137355_24656	NW_004516029.1	Scaffold599	24656	CC	AA	1946964496
SNP_P4_137356_25270	NW_004516029.1	Scaffold599	25270	TT	GG	1946964498
SNP_P4_137357_25273	NW_004516029.1	Scaffold599	25273	TT	GG	1946964500
SNP_P4_137358_25392	NW_004516029.1	Scaffold599	25392	TT	CC	1946964502
SNP_P4_137359_25845	NW_004516029.1	Scaffold599	25845	AA	GG	1946964504
SNP_P4_137360_26776	NW_004516029.1	Scaffold599	26776	AA	CC	1946964506
SNP_P4_137361_26833	NW_004516029.1	Scaffold599	26833	TT	CC	1946964507
SNP_P4_137362_27801	NW_004516029.1	Scaffold599	27801	CC	TT	1946964509
SNP_P4_137363_28734	NW_004516029.1	Scaffold599	28734	CC	TT	1946964511
SNP_P4_137364_29021	NW_004516029.1	Scaffold599	29021	CC	AA	1946964513
SNP_P4_137365_29267	NW_004516029.1	Scaffold599	29267	CC	AA	1946964515
SNP_P4_137367_39395	NW_004516029.1	Scaffold599	39395	AA	TT	1946964517
SNP_P4_137368_39423	NW_004516029.1	Scaffold599	39423	AA	TT	1946964519
SNP_P4_137370_39441	NW_004516029.1	Scaffold599	39441	AA	GG	1946964521
SNP_P4_137371_39448	NW_004516029.1	Scaffold599	39448	AA	TT	1946964523
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SNP_P4_137373_42377	NW_004516029.1	Scaffold599	42377	TT	CC	1946964527
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SNP_P4_137377_51197	NW_004516029.1	Scaffold599	51197	TT	CC	1946964533
SNP_P4_137378_51252	NW_004516029.1	Scaffold599	51252	TT	CC	1946964535
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SNP_P4_137381_52465	NW_004516029.1	Scaffold599	52465	CC	GG	1946964541
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SNP_P4_137390_55395	NW_004516029.1	Scaffold599	55395	CC	TT	1946964557
SNP_P4_137391_56239	NW_004516029.1	Scaffold599	56239	CC	AA	1946964559
SNP_P4_137392_56457	NW_004516029.1	Scaffold599	56457	AA	GG	1946964561
SNP_P4_137394_57011	NW_004516029.1	Scaffold599	57011	GG	AA	1946964563
SNP_P4_137395_57012	NW_004516029.1	Scaffold599	57012	TT	GG	1946964565
SNP_P4_137396_57016	NW_004516029.1	Scaffold599	57016	TT	CC	1946964567
SNP_P4_137397_57025	NW_004516029.1	Scaffold599	57025	AA	GG	1946964569
SNP_P4_137398_57027	NW_004516029.1	Scaffold599	57027	TT	CC	1946964571
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_137403_58380	NW_004516029.1	Scaffold599	58380	GG	TT	1946964579
SNP_P4_137404_58576	NW_004516029.1	Scaffold599	58576	GG	AA	1946964581
SNP_P4_137405_58872	NW_004516029.1	Scaffold599	58872	GG	CC	1946964583
SNP_P4_137406_59085	NW_004516029.1	Scaffold599	59085	TT	AA	1946964585
SNP_P4_137407_65977	NW_004516029.1	Scaffold599	65977	CC	GG	1946964587
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SNP_P4_137409_75719	NW_004516029.1	Scaffold599	75719	CC	AA	1946964591
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SNP_P4_137411_76588	NW_004516029.1	Scaffold599	76588	CC	TT	1946964595
SNP_P4_137415_84200	NW_004516029.1	Scaffold599	84200	CC	TT	1946964597
SNP_P4_137416_87778	NW_004516029.1	Scaffold599	87778	AA	GG	1946964599
SNP_P4_137417_88019	NW_004516029.1	Scaffold599	88019	TT	CC	1946964601
SNP_P4_137418_90626	NW_004516029.1	Scaffold599	90626	TT	CC	1946964603
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SNP_P4_137443_182283	NW_004516029.1	Scaffold599	182283	GG	AA	1946964644
SNP_P4_137444_184103	NW_004516029.1	Scaffold599	184103	TT	CC	1946964646
SNP_P4_137445_184342	NW_004516029.1	Scaffold599	184342	AA	CC	1946964648
SNP_P4_137446_187588	NW_004516029.1	Scaffold599	187588	AA	GG	1946964650
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_137451_188193	NW_004516029.1	Scaffold599	188193	GG	AA	1946964658
SNP_P4_137452_188800	NW_004516029.1	Scaffold599	188800	GG	AA	1946964660
SNP_P4_137453_189512	NW_004516029.1	Scaffold599	189512	AA	GG	1946964662
SNP_P4_137454_190268	NW_004516029.1	Scaffold599	190268	TT	GG	1946964664
SNP_P4_137455_190736	NW_004516029.1	Scaffold599	190736	TT	CC	1946964666
SNP_P4_137456_190870	NW_004516029.1	Scaffold599	190870	CC	TT	1946964668
SNP_P4_137457_194056	NW_004516029.1	Scaffold599	194056	AA	TT	1946964670
SNP_P4_137458_196382	NW_004516029.1	Scaffold599	196382	CC	TT	1946964672
SNP_P4_137459_204673	NW_004516029.1	Scaffold599	204673	GG	AA	1946964674
SNP_P4_137460_207699	NW_004516029.1	Scaffold599	207699	TT	CC	1946964676
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SNP_P4_137462_230452	NW_004516029.1	Scaffold599	230452	AA	GG	1946964680
SNP_P4_137463_230470	NW_004516029.1	Scaffold599	230470	CC	TT	1946964682
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SNP_P4_137487_255862	NW_004516029.1	Scaffold599	255862	AA	TT	1946964720
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SNP_P4_137493_279003	NW_004516029.1	Scaffold599	279003	AA	GG	1946964728
SNP_P4_137494_279334	NW_004516029.1	Scaffold599	279334	AA	CC	1946964730
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SNP_P4_137496_283566	NW_004516029.1	Scaffold599	283566	AA	GG	1946964733
SNP_P4_137497_284501	NW_004516029.1	Scaffold599	284501	AA	GG	1946964735

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_137501_284709	NW_004516029.1	Scaffold599	284709	CC	TT	1946964741
SNP_P4_137502_284956	NW_004516029.1	Scaffold599	284956	AA	GG	1946964743
SNP_P4_137503_285955	NW_004516029.1	Scaffold599	285955	TT	GG	1946964745
SNP_P4_137504_285997	NW_004516029.1	Scaffold599	285997	TT	CC	1946964747
SNP_P4_137505_286324	NW_004516029.1	Scaffold599	286324	GG	CC	1946964749
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SNP_P4_137530_305149	NW_004516029.1	Scaffold599	305149	CC	TT	1946964794
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SNP_P4_137544_310940	NW_004516029.1	Scaffold599	310940	GG	AA	1946964814
SNP_P4_137545_310973	NW_004516029.1	Scaffold599	310973	AA	GG	1946964816
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_137551_314472	NW_004516029.1	Scaffold599	314472	TT	CC	1946964824
SNP_P4_137552_315058	NW_004516029.1	Scaffold599	315058	TT	AA	1946964826
SNP_P4_137553_315306	NW_004516029.1	Scaffold599	315306	CC	TT	1946964828
SNP_P4_137554_315356	NW_004516029.1	Scaffold599	315356	TT	AA	1946964830
SNP_P4_137555_315699	NW_004516029.1	Scaffold599	315699	TT	GG	1946964831
SNP_P4_137556_315792	NW_004516029.1	Scaffold599	315792	AA	GG	1946964833
SNP_P4_137557_315815	NW_004516029.1	Scaffold599	315815	AA	GG	1946964835
SNP_P4_137558_316144	NW_004516029.1	Scaffold599	316144	AA	CC	1946964837
SNP_P4_137559_316380	NW_004516029.1	Scaffold599	316380	CC	TT	1946964839
SNP_P4_137560_316525	NW_004516029.1	Scaffold599	316525	TT	AA	1946964841
SNP_P4_137561_316791	NW_004516029.1	Scaffold599	316791	CC	TT	1946964843
SNP_P4_137562_317261	NW_004516029.1	Scaffold599	317261	GG	AA	1946964845
SNP_P4_137563_317351	NW_004516029.1	Scaffold599	317351	TT	GG	1946964847
SNP_P4_137564_317387	NW_004516029.1	Scaffold599	317387	AA	TT	1946964849
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SNP_P4_137566_317405	NW_004516029.1	Scaffold599	317405	AA	TT	1946964853
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SNP_P4_137579_324304	NW_004516029.1	Scaffold599	324304	AA	CC	1946964869
SNP_P4_137580_324397	NW_004516029.1	Scaffold599	324397	GG	AA	1946964871
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SNP_P4_137594_333481	NW_004516029.1	Scaffold599	333481	CC	TT	1946964894
SNP_P4_137595_333792	NW_004516029.1	Scaffold599	333792	TT	CC	1946964896
SNP_P4_137596_333793	NW_004516029.1	Scaffold599	333793	CC	TT	1946964898
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_137602_338098	NW_004516029.1	Scaffold599	338098	GG	AA	1946964906
SNP_P4_137603_338631	NW_004516029.1	Scaffold599	338631	AA	GG	1946964908
SNP_P4_137604_338964	NW_004516029.1	Scaffold599	338964	AA	TT	1946964910
SNP_P4_137605_339234	NW_004516029.1	Scaffold599	339234	TT	AA	1946964912
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SNP_P4_137607_339612	NW_004516029.1	Scaffold599	339612	AA	TT	1946964916
SNP_P4_137608_339653	NW_004516029.1	Scaffold599	339653	CC	TT	1946964918
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SNP_P4_137610_339890	NW_004516029.1	Scaffold599	339890	GG	AA	1946964922
SNP_P4_137611_339897	NW_004516029.1	Scaffold599	339897	GG	AA	1946964924
SNP_P4_137614_349941	NW_004516029.1	Scaffold599	349941	CC	TT	1946964926
SNP_P4_137615_350331	NW_004516029.1	Scaffold599	350331	CC	AA	1946964928
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SNP_P4_137620_352492	NW_004516029.1	Scaffold599	352492	CC	TT	1946964932
SNP_P4_137621_352801	NW_004516029.1	Scaffold599	352801	CC	TT	1946964934
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SNP_P4_137623_353375	NW_004516029.1	Scaffold599	353375	CC	TT	1946964938
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SNP_P4_137627_355547	NW_004516029.1	Scaffold599	355547	CC	GG	1946964946
SNP_P4_137628_356963	NW_004516029.1	Scaffold599	356963	GG	CC	1946964948
SNP_P4_137629_357014	NW_004516029.1	Scaffold599	357014	GG	AA	1946964950
SNP_P4_137630_357475	NW_004516029.1	Scaffold599	357475	GG	AA	1946964951
SNP_P4_137632_358458	NW_004516029.1	Scaffold599	358458	AA	TT	1946964952
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SNP_P4_137636_359630	NW_004516029.1	Scaffold599	359630	TT	AA	1946964958
SNP_P4_137637_359746	NW_004516029.1	Scaffold599	359746	GG	TT	1946964960
SNP_P4_137638_360016	NW_004516029.1	Scaffold599	360016	CC	TT	1946964962
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SNP_P4_137644_362115	NW_004516029.1	Scaffold599	362115	GG	CC	1946964975
SNP_P4_137645_363515	NW_004516029.1	Scaffold599	363515	TT	CC	1946964977
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SNP_P4_137647_363798	NW_004516029.1	Scaffold599	363798	TT	AA	1946964981

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_137652_367214	NW_004516029.1	Scaffold599	367214	CC	GG	1946964987
SNP_P4_137653_368147	NW_004516029.1	Scaffold599	368147	AA	CC	1946964989
SNP_P4_137654_368255	NW_004516029.1	Scaffold599	368255	GG	TT	1946964991
SNP_P4_137655_368492	NW_004516029.1	Scaffold599	368492	AA	CC	1946964993
SNP_P4_137656_368888	NW_004516029.1	Scaffold599	368888	GG	CC	1946964995
SNP_P4_137657_369198	NW_004516029.1	Scaffold599	369198	GG	AA	1946964997
SNP_P4_137658_369270	NW_004516029.1	Scaffold599	369270	AA	TT	1946964999
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SNP_P4_137661_369440	NW_004516029.1	Scaffold599	369440	GG	AA	1946965005
SNP_P4_137662_369469	NW_004516029.1	Scaffold599	369469	GG	AA	1946965007
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SNP_P4_137664_369557	NW_004516029.1	Scaffold599	369557	CC	AA	1946965011
SNP_P4_137665_369565	NW_004516029.1	Scaffold599	369565	CC	TT	1946965013
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SNP_P4_137667_369763	NW_004516029.1	Scaffold599	369763	AA	GG	1946965017
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SNP_P4_137687_387855	NW_004516029.1	Scaffold599	387855	GG	TT	1946965051
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SNP_P4_137692_391899	NW_004516029.1	Scaffold599	391899	GG	TT	1946965055
SNP_P4_137694_392773	NW_004516029.1	Scaffold599	392773	AA	TT	1946965057
SNP_P4_137696_392849	NW_004516029.1	Scaffold599	392849	TT	CC	1946965059
SNP_P4_137697_393849	NW_004516029.1	Scaffold599	393849	TT	CC	1946965061
SNP_P4_137698_394426	NW_004516029.1	Scaffold599	394426	CC	TT	1946965063
SNP_P4_137699_394637	NW_004516029.1	Scaffold599	394637	AA	CC	1946965065

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_137702_396304	NW_004516029.1	Scaffold599	396304	AA	GG	1946965071
SNP_P4_137703_396318	NW_004516029.1	Scaffold599	396318	AA	GG	1946965073
SNP_P4_137704_396581	NW_004516029.1	Scaffold599	396581	GG	AA	1946965075
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SNP_P4_137706_397155	NW_004516029.1	Scaffold599	397155	TT	CC	1946965079
SNP_P4_137707_397170	NW_004516029.1	Scaffold599	397170	AA	TT	1946965081
SNP_P4_137708_397171	NW_004516029.1	Scaffold599	397171	AA	TT	1946965083
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SNP_P4_137710_397782	NW_004516029.1	Scaffold599	397782	CC	TT	1946965087
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SNP_P4_137712_398919	NW_004516029.1	Scaffold599	398919	AA	GG	1946965091
SNP_P4_137713_399162	NW_004516029.1	Scaffold599	399162	AA	CC	1946965093
SNP_P4_137714_400034	NW_004516029.1	Scaffold599	400034	CC	AA	1946965095
SNP_P4_137715_401886	NW_004516029.1	Scaffold599	401886	GG	AA	1946965097
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SNP_P4_137726_405497	NW_004516029.1	Scaffold599	405497	CC	AA	1946965119
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SNP_P4_137729_407602	NW_004516029.1	Scaffold599	407602	CC	TT	1946965125
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SNP_P4_137731_409409	NW_004516029.1	Scaffold599	409409	TT	CC	1946965129
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SNP_P4_137734_410095	NW_004516029.1	Scaffold599	410095	CC	AA	1946965133
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SNP_P4_137738_12275	NW_004516030.1	Scaffold601	12275	AA	GG	1946965141
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SNP_P4_137740_43844	NW_004516030.1	Scaffold601	43844	AA	GG	1946965145
SNP_P4_137741_44204	NW_004516030.1	Scaffold601	44204	CC	TT	1946965147
SNP_P4_137742_44206	NW_004516030.1	Scaffold601	44206	TT	AA	1946965149

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_137745_52378	NW_004516030.1	Scaffold601	52378	TT	CC	1946965154
SNP_P4_137746_52415	NW_004516030.1	Scaffold601	52415	TT	GG	1946965156
SNP_P4_137747_52433	NW_004516030.1	Scaffold601	52433	GG	CC	1946965158
SNP_P4_137748_52763	NW_004516030.1	Scaffold601	52763	AA	GG	1946965160
SNP_P4_137749_93730	NW_004516030.1	Scaffold601	93730	TT	AA	1946965162
SNP_P4_137750_97542	NW_004516030.1	Scaffold601	97542	GG	CC	1946965164
SNP_P4_137751_108089	NW_004516030.1	Scaffold601	108089	AA	GG	1946965166
SNP_P4_137752_108449	NW_004516030.1	Scaffold601	108449	TT	CC	1946965168
SNP_P4_137753_109292	NW_004516030.1	Scaffold601	109292	TT	CC	1946965170
SNP_P4_137754_110204	NW_004516030.1	Scaffold601	110204	CC	TT	1946965172
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SNP_P4_137756_110218	NW_004516030.1	Scaffold601	110218	GG	CC	1946965176
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SNP_P4_137760_110237	NW_004516030.1	Scaffold601	110237	TT	CC	1946965184
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SNP_P4_137767_110312	NW_004516030.1	Scaffold601	110312	TT	CC	1946965198
SNP_P4_137768_110318	NW_004516030.1	Scaffold601	110318	AA	GG	1946965200
SNP_P4_137769_110706	NW_004516030.1	Scaffold601	110706	GG	AA	1946965202
SNP_P4_137770_133037	NW_004516030.1	Scaffold601	133037	TT	GG	1946965204
SNP_P4_137772_143368	NW_004516030.1	Scaffold601	143368	AA	CC	1946965206
SNP_P4_137773_1268	NW_004516031.1	Scaffold602	1268	AA	GG	1946965208
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SNP_P4_137784_7865	NW_004516032.1	Scaffold604	7865	CC	TT	1946965230
SNP_P4_137785_8150	NW_004516032.1	Scaffold604	8150	AA	TT	1946965232
SNP_P4_137786_8190	NW_004516032.1	Scaffold604	8190	AA	GG	1946965234

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_137788_8997	NW_004516032.1	Scaffold604	8997	TT	CC	1946965238
SNP_P4_137789_9040	NW_004516032.1	Scaffold604	9040	CC	AA	1946965240
SNP_P4_137790_9084	NW_004516032.1	Scaffold604	9084	TT	AA	1946965242
SNP_P4_137791_9112	NW_004516032.1	Scaffold604	9112	AA	TT	1946965244
SNP_P4_137792_9237	NW_004516032.1	Scaffold604	9237	TT	CC	1946965246
SNP_P4_137793_9290	NW_004516032.1	Scaffold604	9290	AA	GG	1946965248
SNP_P4_137794_9471	NW_004516032.1	Scaffold604	9471	TT	AA	1946965250
SNP_P4_137795_9698	NW_004516032.1	Scaffold604	9698	GG	AA	1946965252
SNP_P4_137796_12999	NW_004516032.1	Scaffold604	12999	GG	AA	1946965254
SNP_P4_137797_14667	NW_004516032.1	Scaffold604	14667	CC	TT	1946965256
SNP_P4_137798_15113	NW_004516032.1	Scaffold604	15113	AA	GG	1946965258
SNP_P4_137799_16025	NW_004516032.1	Scaffold604	16025	AA	TT	1946965260
SNP_P4_137800_16450	NW_004516032.1	Scaffold604	16450	TT	CC	1946965262
SNP_P4_137801_16641	NW_004516032.1	Scaffold604	16641	AA	CC	1946965264
SNP_P4_137802_16682	NW_004516032.1	Scaffold604	16682	CC	GG	1946965266
SNP_P4_137803_16830	NW_004516032.1	Scaffold604	16830	TT	CC	1946965268
SNP_P4_137804_16910	NW_004516032.1	Scaffold604	16910	TT	CC	1946965270
SNP_P4_137805_19046	NW_004516032.1	Scaffold604	19046	TT	CC	1946965272
SNP_P4_137806_19122	NW_004516032.1	Scaffold604	19122	GG	AA	1946965274
SNP_P4_137807_19158	NW_004516032.1	Scaffold604	19158	GG	CC	1946965276
SNP_P4_137808_19175	NW_004516032.1	Scaffold604	19175	AA	GG	1946965278
SNP_P4_137809_19179	NW_004516032.1	Scaffold604	19179	AA	GG	1946965280
SNP_P4_137810_19186	NW_004516032.1	Scaffold604	19186	TT	CC	1946965282
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SNP_P4_137812_19614	NW_004516032.1	Scaffold604	19614	AA	GG	1946965286
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SNP_P4_137816_22734	NW_004516032.1	Scaffold604	22734	TT	AA	1946965294
SNP_P4_137817_26028	NW_004516032.1	Scaffold604	26028	CC	TT	1946965296
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SNP_P4_137821_52015	NW_004516032.1	Scaffold604	52015	CC	TT	1946965300
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SNP_P4_137823_59644	NW_004516032.1	Scaffold604	59644	AA	CC	1946965304
SNP_P4_137824_63398	NW_004516032.1	Scaffold604	63398	TT	CC	1946965306
SNP_P4_137825_66979	NW_004516032.1	Scaffold604	66979	CC	TT	1946965308
SNP_P4_137826_67299	NW_004516032.1	Scaffold604	67299	TT	AA	1946965310
SNP_P4_137827_72039	NW_004516032.1	Scaffold604	72039	GG	AA	1946965312
SNP_P4_137828_73905	NW_004516032.1	Scaffold604	73905	AA	CC	1946965314
SNP_P4_137829_74341	NW_004516032.1	Scaffold604	74341	CC	TT	1946965316
SNP_P4_137830_74399	NW_004516032.1	Scaffold604	74399	AA	GG	1946965318

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_137834_1288	NW_004516033.1	Scaffold605	1288	AA	GG	1946965324
SNP_P4_137835_1289	NW_004516033.1	Scaffold605	1289	AA	GG	1946965326
SNP_P4_137836_5761	NW_004516033.1	Scaffold605	5761	AA	GG	1946965328
SNP_P4_137837_19031	NW_004516033.1	Scaffold605	19031	TT	CC	1946965330
SNP_P4_137838_19460	NW_004516033.1	Scaffold605	19460	GG	AA	1946965332
SNP_P4_137839_19574	NW_004516033.1	Scaffold605	19574	GG	AA	1946965334
SNP_P4_137840_24781	NW_004516033.1	Scaffold605	24781	TT	CC	1946965336
SNP_P4_137844_71320	NW_004516033.1	Scaffold605	71320	TT	AA	1946965338
SNP_P4_137845_71324	NW_004516033.1	Scaffold605	71324	CC	AA	1946965340
SNP_P4_137846_73969	NW_004516033.1	Scaffold605	73969	TT	CC	1946965342
SNP_P4_137847_78912	NW_004516033.1	Scaffold605	78912	GG	TT	1946965344
SNP_P4_137848_78917	NW_004516033.1	Scaffold605	78917	TT	CC	1946965346
SNP_P4_137850_4302	NW_004516036.1	Scaffold611	4302	GG	AA	1946965348
SNP_P4_137851_5075	NW_004516036.1	Scaffold611	5075	GG	TT	1946965350
SNP_P4_137852_6285	NW_004516036.1	Scaffold611	6285	AA	GG	1946965352
SNP_P4_137853_6288	NW_004516036.1	Scaffold611	6288	GG	CC	1946965354
SNP_P4_137854_6428	NW_004516036.1	Scaffold611	6428	TT	CC	1946965356
SNP_P4_137855_6738	NW_004516036.1	Scaffold611	6738	TT	AA	1946965358
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SNP_P4_137859_23519	NW_004516036.1	Scaffold611	23519	GG	AA	1946965367
SNP_P4_137860_23520	NW_004516036.1	Scaffold611	23520	AA	CC	1946965369
SNP_P4_137862_23553	NW_004516036.1	Scaffold611	23553	CC	TT	1946965371
SNP_P4_137863_23576	NW_004516036.1	Scaffold611	23576	CC	AA	1946965373
SNP_P4_137864_23584	NW_004516036.1	Scaffold611	23584	AA	GG	1946965375
SNP_P4_137865_23621	NW_004516036.1	Scaffold611	23621	TT	AA	1946965377
SNP_P4_137866_23623	NW_004516036.1	Scaffold611	23623	TT	AA	1946965379
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SNP_P4_137868_23638	NW_004516036.1	Scaffold611	23638	TT	GG	1946965383
SNP_P4_137869_23643	NW_004516036.1	Scaffold611	23643	TT	GG	1946965385
SNP_P4_137870_568	NW_004516037.1	Scaffold612	568	AA	TT	1946965387
SNP_P4_137871_2023	NW_004516037.1	Scaffold612	2023	CC	TT	1946965389
SNP_P4_137872_2031	NW_004516037.1	Scaffold612	2031	TT	AA	1946965391
SNP_P4_137873_2096	NW_004516037.1	Scaffold612	2096	TT	AA	1946965393
SNP_P4_137874_2119	NW_004516037.1	Scaffold612	2119	CC	TT	1946965395
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SNP_P4_137876_2130	NW_004516037.1	Scaffold612	2130	TT	AA	1946965399
SNP_P4_137877_2979	NW_004516037.1	Scaffold612	2979	CC	AA	1946965401
SNP_P4_137878_3022	NW_004516037.1	Scaffold612	3022	TT	AA	1946965403

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_137881_3120	NW_004516037.1	Scaffold612	3120	CC	GG	1946965409
SNP_P4_137882_3194	NW_004516037.1	Scaffold612	3194	GG	AA	1946965411
SNP_P4_137883_3195	NW_004516037.1	Scaffold612	3195	TT	CC	1946965413
SNP_P4_137884_3297	NW_004516037.1	Scaffold612	3297	GG	AA	1946965415
SNP_P4_137885_3323	NW_004516037.1	Scaffold612	3323	TT	CC	1946965417
SNP_P4_137887_3416	NW_004516037.1	Scaffold612	3416	AA	CC	1946965419
SNP_P4_137889_3455	NW_004516037.1	Scaffold612	3455	GG	AA	1946965421
SNP_P4_137890_3512	NW_004516037.1	Scaffold612	3512	TT	GG	1946965423
SNP_P4_137891_3552	NW_004516037.1	Scaffold612	3552	CC	GG	1946965425
SNP_P4_137892_3596	NW_004516037.1	Scaffold612	3596	CC	TT	1946965427
SNP_P4_137894_17439	NW_004516037.1	Scaffold612	17439	AA	TT	1946965429
SNP_P4_137895_17756	NW_004516037.1	Scaffold612	17756	AA	GG	1946965431
SNP_P4_137896_17829	NW_004516037.1	Scaffold612	17829	AA	GG	1946965433
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SNP_P4_137898_18613	NW_004516037.1	Scaffold612	18613	TT	AA	1946965437
SNP_P4_137899_18622	NW_004516037.1	Scaffold612	18622	GG	TT	1946965439
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SNP_P4_137901_20273	NW_004516037.1	Scaffold612	20273	AA	GG	1946965443
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SNP_P4_137903_21971	NW_004516037.1	Scaffold612	21971	AA	CC	1946965448
SNP_P4_137904_22047	NW_004516037.1	Scaffold612	22047	CC	TT	1946965450
SNP_P4_137905_22114	NW_004516037.1	Scaffold612	22114	GG	AA	1946965452
SNP_P4_137906_22549	NW_004516037.1	Scaffold612	22549	AA	GG	1946965454
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SNP_P4_137914_25591	NW_004516037.1	Scaffold612	25591	GG	AA	1946965470
SNP_P4_137915_25749	NW_004516037.1	Scaffold612	25749	AA	GG	1946965472
SNP_P4_137916_26703	NW_004516037.1	Scaffold612	26703	TT	CC	1946965474
SNP_P4_137917_26704	NW_004516037.1	Scaffold612	26704	GG	AA	1946965476
SNP_P4_137918_28238	NW_004516037.1	Scaffold612	28238	AA	GG	1946965478
SNP_P4_137919_28455	NW_004516037.1	Scaffold612	28455	GG	AA	1946965480
SNP_P4_137920_28543	NW_004516037.1	Scaffold612	28543	CC	TT	1946965482
SNP_P4_137922_28609	NW_004516037.1	Scaffold612	28609	TT	CC	1946965484
SNP_P4_137923_28742	NW_004516037.1	Scaffold612	28742	AA	GG	1946965486
SNP_P4_137924_28852	NW_004516037.1	Scaffold612	28852	AA	GG	1946965488

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_137927_29090	NW_004516037.1	Scaffold612	29090	GG	AA	1946965494
SNP_P4_137928_29390	NW_004516037.1	Scaffold612	29390	AA	GG	1946965496
SNP_P4_137929_29412	NW_004516037.1	Scaffold612	29412	CC	GG	1946965498
SNP_P4_137930_29465	NW_004516037.1	Scaffold612	29465	CC	TT	1946965500
SNP_P4_137931_29512	NW_004516037.1	Scaffold612	29512	GG	AA	1946965502
SNP_P4_137932_38725	NW_004516037.1	Scaffold612	38725	GG	AA	1946965504
SNP_P4_137933_38732	NW_004516037.1	Scaffold612	38732	CC	TT	1946965506
SNP_P4_137934_38739	NW_004516037.1	Scaffold612	38739	AA	GG	1946965508
SNP_P4_137935_38746	NW_004516037.1	Scaffold612	38746	TT	AA	1946965510
SNP_P4_137936_38960	NW_004516037.1	Scaffold612	38960	GG	CC	1946965512
SNP_P4_137937_38973	NW_004516037.1	Scaffold612	38973	AA	TT	1946965514
SNP_P4_137938_39213	NW_004516037.1	Scaffold612	39213	CC	TT	1946965515
SNP_P4_137939_39267	NW_004516037.1	Scaffold612	39267	CC	TT	1946965517
SNP_P4_137940_49252	NW_004516037.1	Scaffold612	49252	AA	CC	1946965519
SNP_P4_137941_64	NW_004516038.1	Scaffold613	64	CC	GG	1946965521
SNP_P4_137943_6908	NW_004516038.1	Scaffold613	6908	AA	CC	1946965523
SNP_P4_137944_24694	NW_004516038.1	Scaffold613	24694	GG	AA	1946965525
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SNP_P4_137949_1090	NW_004516041.1	Scaffold617	1090	TT	AA	1946965535
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SNP_P4_137958_8775	NW_004516041.1	Scaffold617	8775	TT	AA	1946965553
SNP_P4_137959_8847	NW_004516041.1	Scaffold617	8847	GG	AA	1946965555
SNP_P4_137960_8859	NW_004516041.1	Scaffold617	8859	TT	GG	1946965557
SNP_P4_137961_8869	NW_004516041.1	Scaffold617	8869	CC	AA	1946965559
SNP_P4_137962_8876	NW_004516041.1	Scaffold617	8876	AA	CC	1946965561
SNP_P4_137964_8901	NW_004516041.1	Scaffold617	8901	CC	AA	1946965563
SNP_P4_137965_8908	NW_004516041.1	Scaffold617	8908	CC	AA	1946965565
SNP_P4_137966_8984	NW_004516041.1	Scaffold617	8984	AA	GG	1946965567
SNP_P4_137967_5239	NW_004516042.1	Scaffold618	5239	AA	TT	1946965568
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_137970_5395	NW_004516042.1	Scaffold618	5395	AA	GG	1946965574
SNP_P4_137971_5397	NW_004516042.1	Scaffold618	5397	AA	CC	1946965576
SNP_P4_137972_6110	NW_004516042.1	Scaffold618	6110	CC	AA	1946965578
SNP_P4_137973_8671	NW_004516042.1	Scaffold618	8671	TT	CC	1946965580
SNP_P4_137974_9071	NW_004516042.1	Scaffold618	9071	GG	AA	1946965582
SNP_P4_137975_13901	NW_004516042.1	Scaffold618	13901	GG	AA	1946965584
SNP_P4_137976_13903	NW_004516042.1	Scaffold618	13903	CC	TT	1946965586
SNP_P4_137977_14219	NW_004516042.1	Scaffold618	14219	GG	AA	1946965588
SNP_P4_137978_14225	NW_004516042.1	Scaffold618	14225	TT	AA	1946965590
SNP_P4_137979_14227	NW_004516042.1	Scaffold618	14227	GG	AA	1946965592
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SNP_P4_137983_55151	NW_004516042.1	Scaffold618	55151	TT	AA	1946965600
SNP_P4_137984_55176	NW_004516042.1	Scaffold618	55176	AA	CC	1946965602
SNP_P4_137985_55232	NW_004516042.1	Scaffold618	55232	AA	GG	1946965603
SNP_P4_137986_55237	NW_004516042.1	Scaffold618	55237	AA	GG	1946965605
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SNP_P4_137988_58142	NW_004516042.1	Scaffold618	58142	AA	TT	1946965609
SNP_P4_137989_58145	NW_004516042.1	Scaffold618	58145	GG	TT	1946965611
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SNP_P4_137993_58973	NW_004516042.1	Scaffold618	58973	TT	CC	1946965619
SNP_P4_137994_59130	NW_004516042.1	Scaffold618	59130	CC	AA	1946965621
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SNP_P4_138006_62371	NW_004516042.1	Scaffold618	62371	TT	CC	1946965645
SNP_P4_138007_62626	NW_004516042.1	Scaffold618	62626	AA	CC	1946965647
SNP_P4_138008_62982	NW_004516042.1	Scaffold618	62982	AA	TT	1946965649
SNP_P4_138010_147069	NW_004516042.1	Scaffold618	147069	GG	AA	1946965651
SNP_P4_138011_152478	NW_004516042.1	Scaffold618	152478	TT	CC	1946965653

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_138014_164687	NW_004516042.1	Scaffold618	164687	CC	TT	1946965659
SNP_P4_138015_172451	NW_004516042.1	Scaffold618	172451	AA	GG	1946965661
SNP_P4_138016_200890	NW_004516042.1	Scaffold618	200890	AA	GG	1946965663
SNP_P4_138017_200925	NW_004516042.1	Scaffold618	200925	GG	AA	1946965665
SNP_P4_138018_216482	NW_004516042.1	Scaffold618	216482	GG	TT	1946965667
SNP_P4_138019_216624	NW_004516042.1	Scaffold618	216624	GG	TT	1946965669
SNP_P4_138020_216646	NW_004516042.1	Scaffold618	216646	AA	GG	1946965671
SNP_P4_138021_218321	NW_004516042.1	Scaffold618	218321	GG	AA	1946965673
SNP_P4_138022_34000	NW_004516043.1	Scaffold619	34000	GG	AA	1946965675
SNP_P4_138023_34488	NW_004516043.1	Scaffold619	34488	TT	CC	1946965677
SNP_P4_138024_34490	NW_004516043.1	Scaffold619	34490	TT	GG	1946965679
SNP_P4_138025_46871	NW_004516043.1	Scaffold619	46871	AA	CC	1946965681
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SNP_P4_138027_47053	NW_004516043.1	Scaffold619	47053	TT	CC	1946965685
SNP_P4_138028_47054	NW_004516043.1	Scaffold619	47054	TT	CC	1946965686
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SNP_P4_138030_47140	NW_004516043.1	Scaffold619	47140	AA	CC	1946965690
SNP_P4_138031_88	NW_004516044.1	Scaffold620	88	AA	TT	1946965692
SNP_P4_138032_1001	NW_004516045.1	Scaffold622	1001	AA	GG	1946965694
SNP_P4_138033_2803	NW_004516045.1	Scaffold622	2803	GG	AA	1946965696
SNP_P4_138034_4669	NW_004516045.1	Scaffold622	4669	CC	TT	1946965698
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SNP_P4_138037_7544	NW_004516045.1	Scaffold622	7544	AA	GG	1946965704
SNP_P4_138038_7739	NW_004516045.1	Scaffold622	7739	TT	GG	1946965705
SNP_P4_138039_8628	NW_004516045.1	Scaffold622	8628	CC	GG	1946965707
SNP_P4_138040_8636	NW_004516045.1	Scaffold622	8636	CC	AA	1946965709
SNP_P4_138041_8794	NW_004516045.1	Scaffold622	8794	CC	AA	1946965711
SNP_P4_138042_9400	NW_004516045.1	Scaffold622	9400	GG	AA	1946965713
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SNP_P4_138047_10320	NW_004516045.1	Scaffold622	10320	CC	GG	1946965721
SNP_P4_138048_10326	NW_004516045.1	Scaffold622	10326	CC	GG	1946965723
SNP_P4_138049_10460	NW_004516045.1	Scaffold622	10460	AA	TT	1946965725
SNP_P4_138050_10552	NW_004516045.1	Scaffold622	10552	CC	GG	1946965727
SNP_P4_138051_10642	NW_004516045.1	Scaffold622	10642	CC	TT	1946965729
SNP_P4_138052_10795	NW_004516045.1	Scaffold622	10795	CC	TT	1946965731
SNP_P4_138053_10835	NW_004516045.1	Scaffold622	10835	TT	AA	1946965733
SNP_P4_138055_20984	NW_004516045.1	Scaffold622	20984	AA	GG	1946965735

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_138057_22074	NW_004516045.1	Scaffold622	22074	AA	GG	1946965738
SNP_P4_138058_22094	NW_004516045.1	Scaffold622	22094	TT	CC	1946965740
SNP_P4_138059_22106	NW_004516045.1	Scaffold622	22106	CC	TT	1946965742
SNP_P4_138060_22495	NW_004516045.1	Scaffold622	22495	CC	GG	1946965744
SNP_P4_138061_22501	NW_004516045.1	Scaffold622	22501	CC	AA	1946965746
SNP_P4_138062_22525	NW_004516045.1	Scaffold622	22525	AA	TT	1946965748
SNP_P4_138064_23541	NW_004516045.1	Scaffold622	23541	AA	GG	1946965750
SNP_P4_138065_24165	NW_004516045.1	Scaffold622	24165	GG	AA	1946965752
SNP_P4_138066_24197	NW_004516045.1	Scaffold622	24197	AA	GG	1946965754
SNP_P4_138067_24598	NW_004516045.1	Scaffold622	24598	AA	GG	1946965756
SNP_P4_138068_24639	NW_004516045.1	Scaffold622	24639	GG	CC	1946965758
SNP_P4_138069_24737	NW_004516045.1	Scaffold622	24737	AA	GG	1946965760
SNP_P4_138070_24745	NW_004516045.1	Scaffold622	24745	AA	CC	1946965762
SNP_P4_138071_24827	NW_004516045.1	Scaffold622	24827	GG	TT	1946965764
SNP_P4_138072_24928	NW_004516045.1	Scaffold622	24928	AA	TT	1946965766
SNP_P4_138073_24930	NW_004516045.1	Scaffold622	24930	AA	GG	1946965768
SNP_P4_138074_24962	NW_004516045.1	Scaffold622	24962	CC	AA	1946965770
SNP_P4_138075_25187	NW_004516045.1	Scaffold622	25187	TT	GG	1946965772
SNP_P4_138076_25698	NW_004516045.1	Scaffold622	25698	GG	TT	1946965774
SNP_P4_138077_25947	NW_004516045.1	Scaffold622	25947	AA	CC	1946965776
SNP_P4_138078_26069	NW_004516045.1	Scaffold622	26069	AA	GG	1946965778
SNP_P4_138079_26304	NW_004516045.1	Scaffold622	26304	TT	CC	1946965780
SNP_P4_138080_26375	NW_004516045.1	Scaffold622	26375	TT	AA	1946965782
SNP_P4_138081_26605	NW_004516045.1	Scaffold622	26605	CC	AA	1946965784
SNP_P4_138084_30918	NW_004516045.1	Scaffold622	30918	TT	CC	1946965786
SNP_P4_138085_31042	NW_004516045.1	Scaffold622	31042	TT	GG	1946965788
SNP_P4_138086_31199	NW_004516045.1	Scaffold622	31199	GG	CC	1946965790
SNP_P4_138087_31288	NW_004516045.1	Scaffold622	31288	CC	AA	1946965792
SNP_P4_138088_31309	NW_004516045.1	Scaffold622	31309	TT	GG	1946965794
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SNP_P4_138090_35325	NW_004516045.1	Scaffold622	35325	TT	AA	1946965798
SNP_P4_138091_35389	NW_004516045.1	Scaffold622	35389	CC	TT	1946965800
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SNP_P4_138093_35391	NW_004516045.1	Scaffold622	35391	CC	AA	1946965804
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SNP_P4_138095_35813	NW_004516045.1	Scaffold622	35813	GG	CC	1946965808
SNP_P4_138096_35823	NW_004516045.1	Scaffold622	35823	TT	CC	1946965810
SNP_P4_138097_35866	NW_004516045.1	Scaffold622	35866	AA	TT	1946965812
SNP_P4_138098_35894	NW_004516045.1	Scaffold622	35894	AA	CC	1946965814
SNP_P4_138099_35984	NW_004516045.1	Scaffold622	35984	CC	TT	1946965816
SNP_P4_138100_36082	NW_004516045.1	Scaffold622	36082	CC	GG	1946965818

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_138102_36103	NW_004516045.1	Scaffold622	36103	AA	TT	1946965822
SNP_P4_138103_36138	NW_004516045.1	Scaffold622	36138	GG	TT	1946965824
SNP_P4_138104_36187	NW_004516045.1	Scaffold622	36187	GG	CC	1946965826
SNP_P4_138105_36249	NW_004516045.1	Scaffold622	36249	GG	CC	1946965828
SNP_P4_138106_36278	NW_004516045.1	Scaffold622	36278	GG	CC	1946965830
SNP_P4_138107_36621	NW_004516045.1	Scaffold622	36621	GG	AA	1946965832
SNP_P4_138108_36641	NW_004516045.1	Scaffold622	36641	AA	TT	1946965834
SNP_P4_138109_40747	NW_004516045.1	Scaffold622	40747	GG	AA	1946965836
SNP_P4_138110_41115	NW_004516045.1	Scaffold622	41115	TT	GG	1946965838
SNP_P4_138111_41363	NW_004516045.1	Scaffold622	41363	GG	AA	1946965840
SNP_P4_138112_41460	NW_004516045.1	Scaffold622	41460	AA	GG	1946965842
SNP_P4_138114_44565	NW_004516045.1	Scaffold622	44565	AA	GG	1946965844
SNP_P4_138115_45118	NW_004516045.1	Scaffold622	45118	AA	TT	1946965846
SNP_P4_138116_45256	NW_004516045.1	Scaffold622	45256	AA	CC	1946965848
SNP_P4_138117_45308	NW_004516045.1	Scaffold622	45308	TT	CC	1946965850
SNP_P4_138118_45565	NW_004516045.1	Scaffold622	45565	AA	CC	1946965852
SNP_P4_138119_45810	NW_004516045.1	Scaffold622	45810	TT	AA	1946965854
SNP_P4_138120_45948	NW_004516045.1	Scaffold622	45948	TT	AA	1946965856
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SNP_P4_138122_48012	NW_004516045.1	Scaffold622	48012	TT	AA	1946965860
SNP_P4_138123_48048	NW_004516045.1	Scaffold622	48048	CC	GG	1946965862
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SNP_P4_138128_48851	NW_004516045.1	Scaffold622	48851	TT	AA	1946965870
SNP_P4_138129_48910	NW_004516045.1	Scaffold622	48910	CC	AA	1946965872
SNP_P4_138130_48925	NW_004516045.1	Scaffold622	48925	CC	AA	1946965874
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SNP_P4_138132_56577	NW_004516045.1	Scaffold622	56577	AA	CC	1946965878
SNP_P4_138133_56706	NW_004516045.1	Scaffold622	56706	AA	GG	1946965880
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SNP_P4_138137_57101	NW_004516045.1	Scaffold622	57101	CC	GG	1946965888
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SNP_P4_138140_57277	NW_004516045.1	Scaffold622	57277	CC	TT	1946965894
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SNP_P4_138142_57291	NW_004516045.1	Scaffold622	57291	GG	AA	1946965898
SNP_P4_138143_59729	NW_004516045.1	Scaffold622	59729	TT	GG	1946965900
SNP_P4_138144_59774	NW_004516045.1	Scaffold622	59774	TT	AA	1946965902

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_138146_59838	NW_004516045.1	Scaffold622	59838	AA	GG	1946965906
SNP_P4_138147_59881	NW_004516045.1	Scaffold622	59881	CC	GG	1946965908
SNP_P4_138148_59951	NW_004516045.1	Scaffold622	59951	AA	GG	1946965910
SNP_P4_138149_61628	NW_004516045.1	Scaffold622	61628	TT	CC	1946965912
SNP_P4_138150_61629	NW_004516045.1	Scaffold622	61629	GG	TT	1946965914
SNP_P4_138151_61637	NW_004516045.1	Scaffold622	61637	CC	TT	1946965916
SNP_P4_138152_61698	NW_004516045.1	Scaffold622	61698	CC	TT	1946965918
SNP_P4_138154_62298	NW_004516045.1	Scaffold622	62298	GG	TT	1946965920
SNP_P4_138155_63863	NW_004516045.1	Scaffold622	63863	AA	GG	1946965922
SNP_P4_138156_63889	NW_004516045.1	Scaffold622	63889	GG	AA	1946965924
SNP_P4_138157_64090	NW_004516045.1	Scaffold622	64090	AA	GG	1946965926
SNP_P4_138158_64352	NW_004516045.1	Scaffold622	64352	GG	CC	1946965928
SNP_P4_138159_64439	NW_004516045.1	Scaffold622	64439	GG	CC	1946965930
SNP_P4_138160_64484	NW_004516045.1	Scaffold622	64484	GG	AA	1946965932
SNP_P4_138161_64663	NW_004516045.1	Scaffold622	64663	CC	TT	1946965934
SNP_P4_138162_65601	NW_004516045.1	Scaffold622	65601	GG	TT	1946965936
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SNP_P4_138165_68551	NW_004516045.1	Scaffold622	68551	TT	AA	1946965942
SNP_P4_138166_71693	NW_004516045.1	Scaffold622	71693	GG	CC	1946965944
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SNP_P4_138173_73350	NW_004516045.1	Scaffold622	73350	AA	GG	1946965956
SNP_P4_138174_73721	NW_004516045.1	Scaffold622	73721	CC	GG	1946965958
SNP_P4_138175_75112	NW_004516045.1	Scaffold622	75112	CC	TT	1946965960
SNP_P4_138176_75769	NW_004516045.1	Scaffold622	75769	GG	AA	1946965962
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SNP_P4_138179_79417	NW_004516045.1	Scaffold622	79417	TT	GG	1946965966
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SNP_P4_138181_83836	NW_004516045.1	Scaffold622	83836	AA	GG	1946965970
SNP_P4_138182_84185	NW_004516045.1	Scaffold622	84185	AA	TT	1946965972
SNP_P4_138183_86025	NW_004516045.1	Scaffold622	86025	TT	CC	1946965974
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SNP_P4_138185_86370	NW_004516045.1	Scaffold622	86370	CC	AA	1946965979
SNP_P4_138186_87311	NW_004516045.1	Scaffold622	87311	AA	TT	1946965981
SNP_P4_138187_88873	NW_004516045.1	Scaffold622	88873	TT	AA	1946965983
SNP_P4_138188_89797	NW_004516045.1	Scaffold622	89797	TT	AA	1946965985
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_138191_89857	NW_004516045.1	Scaffold622	89857	AA	GG	1946965991
SNP_P4_138192_10415	NW_004516047.1	Scaffold624	10415	AA	CC	1946965993
SNP_P4_138193_10617	NW_004516047.1	Scaffold624	10617	TT	CC	1946965995
SNP_P4_138194_12751	NW_004516047.1	Scaffold624	12751	GG	AA	1946965997
SNP_P4_138195_12760	NW_004516047.1	Scaffold624	12760	TT	CC	1946965999
SNP_P4_138196_12772	NW_004516047.1	Scaffold624	12772	TT	CC	1946966001
SNP_P4_138197_14883	NW_004516047.1	Scaffold624	14883	TT	CC	1946966003
SNP_P4_138198_14887	NW_004516047.1	Scaffold624	14887	CC	TT	1946966005
SNP_P4_138199_15377	NW_004516047.1	Scaffold624	15377	TT	CC	1946966007
SNP_P4_138200_15397	NW_004516047.1	Scaffold624	15397	TT	CC	1946966009
SNP_P4_138201_66983	NW_004516047.1	Scaffold624	66983	AA	GG	1946966011
SNP_P4_138202_67971	NW_004516047.1	Scaffold624	67971	CC	TT	1946966013
SNP_P4_138203_68386	NW_004516047.1	Scaffold624	68386	TT	AA	1946966015
SNP_P4_138204_68481	NW_004516047.1	Scaffold624	68481	TT	CC	1946966017
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SNP_P4_138207_70393	NW_004516047.1	Scaffold624	70393	AA	CC	1946966023
SNP_P4_138208_70404	NW_004516047.1	Scaffold624	70404	TT	GG	1946966025
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SNP_P4_138212_112355	NW_004516047.1	Scaffold624	112355	CC	AA	1946966033
SNP_P4_138214_112419	NW_004516047.1	Scaffold624	112419	GG	AA	1946966035
SNP_P4_138216_112596	NW_004516047.1	Scaffold624	112596	CC	TT	1946966037
SNP_P4_138217_114359	NW_004516047.1	Scaffold624	114359	TT	CC	1946966039
SNP_P4_138218_114374	NW_004516047.1	Scaffold624	114374	CC	TT	1946966041
SNP_P4_138219_146219	NW_004516047.1	Scaffold624	146219	CC	AA	1946966043
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SNP_P4_138233_223622	NW_004516047.1	Scaffold624	223622	AA	GG	1946966067
SNP_P4_138234_223638	NW_004516047.1	Scaffold624	223638	GG	AA	1946966069
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_138238_244253	NW_004516047.1	Scaffold624	244253	CC	AA	1946966077
SNP_P4_138239_255402	NW_004516047.1	Scaffold624	255402	AA	GG	1946966079
SNP_P4_138240_255452	NW_004516047.1	Scaffold624	255452	AA	GG	1946966081
SNP_P4_138241_255772	NW_004516047.1	Scaffold624	255772	AA	GG	1946966083
SNP_P4_138242_257567	NW_004516047.1	Scaffold624	257567	TT	CC	1946966085
SNP_P4_138243_307920	NW_004516047.1	Scaffold624	307920	AA	CC	1946966087
SNP_P4_138244_308100	NW_004516047.1	Scaffold624	308100	TT	AA	1946966089
SNP_P4_138245_308210	NW_004516047.1	Scaffold624	308210	AA	TT	1946966091
SNP_P4_138246_310390	NW_004516047.1	Scaffold624	310390	AA	TT	1946966093
SNP_P4_138247_310519	NW_004516047.1	Scaffold624	310519	GG	TT	1946966095
SNP_P4_138248_310716	NW_004516047.1	Scaffold624	310716	CC	AA	1946966097
SNP_P4_138249_310742	NW_004516047.1	Scaffold624	310742	TT	AA	1946966099
SNP_P4_138250_24898	NW_004516048.1	Scaffold625	24898	GG	AA	1946966101
SNP_P4_138251_24924	NW_004516048.1	Scaffold625	24924	GG	AA	1946966103
SNP_P4_138252_24935	NW_004516048.1	Scaffold625	24935	TT	CC	1946966105
SNP_P4_138253_25167	NW_004516048.1	Scaffold625	25167	AA	TT	1946966107
SNP_P4_138254_25169	NW_004516048.1	Scaffold625	25169	TT	GG	1946966109
SNP_P4_138255_25219	NW_004516048.1	Scaffold625	25219	GG	TT	1946966111
SNP_P4_138256_25453	NW_004516048.1	Scaffold625	25453	CC	AA	1946966113
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SNP_P4_138263_6082	NW_004516049.1	Scaffold626	6082	AA	GG	1946966127
SNP_P4_138264_6102	NW_004516049.1	Scaffold626	6102	AA	TT	1946966129
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SNP_P4_138276_18188	NW_004516049.1	Scaffold626	18188	TT	CC	1946966154
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_138281_18688	NW_004516049.1	Scaffold626	18688	CC	GG	1946966165
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SNP_P4_138283_23952	NW_004516049.1	Scaffold626	23952	AA	CC	1946966169
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SNP_P4_138321_105853	NW_004516049.1	Scaffold626	105853	GG	AA	1946966239
SNP_P4_138322_105877	NW_004516049.1	Scaffold626	105877	GG	CC	1946966241

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_138332_123302	NW_004516049.1	Scaffold626	123302	TT	AA	1946966261
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SNP_P4_138407_220282	NW_004516049.1	Scaffold626	220282	CC	TT	1946966399
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_138409_220395	NW_004516049.1	Scaffold626	220395	AA	GG	1946966403
SNP_P4_138410_220467	NW_004516049.1	Scaffold626	220467	CC	TT	1946966405
SNP_P4_138411_220576	NW_004516049.1	Scaffold626	220576	TT	AA	1946966406
SNP_P4_138412_220600	NW_004516049.1	Scaffold626	220600	GG	CC	1946966408
SNP_P4_138413_220687	NW_004516049.1	Scaffold626	220687	TT	CC	1946966410
SNP_P4_138414_220689	NW_004516049.1	Scaffold626	220689	GG	TT	1946966412
SNP_P4_138415_220724	NW_004516049.1	Scaffold626	220724	TT	GG	1946966414
SNP_P4_138416_220789	NW_004516049.1	Scaffold626	220789	TT	CC	1946966416
SNP_P4_138417_221048	NW_004516049.1	Scaffold626	221048	TT	CC	1946966418
SNP_P4_138418_221064	NW_004516049.1	Scaffold626	221064	CC	TT	1946966420
SNP_P4_138419_222073	NW_004516049.1	Scaffold626	222073	GG	TT	1946966422
SNP_P4_138420_222119	NW_004516049.1	Scaffold626	222119	CC	AA	1946966424
SNP_P4_138421_222190	NW_004516049.1	Scaffold626	222190	GG	AA	1946966426
SNP_P4_138422_222214	NW_004516049.1	Scaffold626	222214	TT	CC	1946966428
SNP_P4_138423_222448	NW_004516049.1	Scaffold626	222448	CC	AA	1946966430
SNP_P4_138424_222467	NW_004516049.1	Scaffold626	222467	CC	TT	1946966432
SNP_P4_138425_222490	NW_004516049.1	Scaffold626	222490	GG	AA	1946966434
SNP_P4_138426_222525	NW_004516049.1	Scaffold626	222525	TT	AA	1946966436
SNP_P4_138427_222557	NW_004516049.1	Scaffold626	222557	CC	TT	1946966437
SNP_P4_138428_223215	NW_004516049.1	Scaffold626	223215	CC	TT	1946966439
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SNP_P4_138430_223745	NW_004516049.1	Scaffold626	223745	TT	GG	1946966443
SNP_P4_138431_223816	NW_004516049.1	Scaffold626	223816	AA	GG	1946966445
SNP_P4_138432_224202	NW_004516049.1	Scaffold626	224202	TT	GG	1946966447
SNP_P4_138433_224450	NW_004516049.1	Scaffold626	224450	CC	TT	1946966449
SNP_P4_138434_224469	NW_004516049.1	Scaffold626	224469	GG	TT	1946966451
SNP_P4_138435_224482	NW_004516049.1	Scaffold626	224482	TT	GG	1946966453
SNP_P4_138436_224627	NW_004516049.1	Scaffold626	224627	TT	CC	1946966454
SNP_P4_138437_224630	NW_004516049.1	Scaffold626	224630	AA	CC	1946966456
SNP_P4_138438_224662	NW_004516049.1	Scaffold626	224662	TT	AA	1946966458
SNP_P4_138439_224768	NW_004516049.1	Scaffold626	224768	AA	TT	1946966460
SNP_P4_138440_224794	NW_004516049.1	Scaffold626	224794	GG	AA	1946966462
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SNP_P4_138445_225356	NW_004516049.1	Scaffold626	225356	AA	GG	1946966470
SNP_P4_138446_225532	NW_004516049.1	Scaffold626	225532	CC	TT	1946966472
SNP_P4_138447_225604	NW_004516049.1	Scaffold626	225604	CC	AA	1946966474
SNP_P4_138448_225781	NW_004516049.1	Scaffold626	225781	TT	CC	1946966476
SNP_P4_138449_226164	NW_004516049.1	Scaffold626	226164	GG	AA	1946966478
SNP_P4_138450_227034	NW_004516049.1	Scaffold626	227034	GG	AA	1946966480
SNP_P4_138451_227538	NW_004516049.1	Scaffold626	227538	AA	CC	1946966482

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_138454_227875	NW_004516049.1	Scaffold626	227875	GG	CC	1946966488
SNP_P4_138455_227921	NW_004516049.1	Scaffold626	227921	GG	AA	1946966490
SNP_P4_138456_227964	NW_004516049.1	Scaffold626	227964	AA	TT	1946966492
SNP_P4_138457_228029	NW_004516049.1	Scaffold626	228029	CC	AA	1946966494
SNP_P4_138458_228046	NW_004516049.1	Scaffold626	228046	TT	CC	1946966496
SNP_P4_138459_228096	NW_004516049.1	Scaffold626	228096	TT	AA	1946966498
SNP_P4_138460_228112	NW_004516049.1	Scaffold626	228112	TT	CC	1946966500
SNP_P4_138461_228479	NW_004516049.1	Scaffold626	228479	TT	CC	1946966502
SNP_P4_138462_228521	NW_004516049.1	Scaffold626	228521	TT	CC	1946966504
SNP_P4_138463_228746	NW_004516049.1	Scaffold626	228746	CC	AA	1946966506
SNP_P4_138464_228749	NW_004516049.1	Scaffold626	228749	TT	AA	1946966508
SNP_P4_138465_228972	NW_004516049.1	Scaffold626	228972	GG	AA	1946966510
SNP_P4_138466_229059	NW_004516049.1	Scaffold626	229059	CC	AA	1946966512
SNP_P4_138467_229268	NW_004516049.1	Scaffold626	229268	CC	TT	1946966514
SNP_P4_138468_229306	NW_004516049.1	Scaffold626	229306	CC	TT	1946966516
SNP_P4_138469_229336	NW_004516049.1	Scaffold626	229336	AA	GG	1946966518
SNP_P4_138470_229381	NW_004516049.1	Scaffold626	229381	GG	AA	1946966520
SNP_P4_138471_233303	NW_004516049.1	Scaffold626	233303	CC	TT	1946966523
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SNP_P4_138475_234361	NW_004516049.1	Scaffold626	234361	CC	AA	1946966531
SNP_P4_138476_235613	NW_004516049.1	Scaffold626	235613	CC	TT	1946966533
SNP_P4_138477_235621	NW_004516049.1	Scaffold626	235621	GG	TT	1946966535
SNP_P4_138478_235626	NW_004516049.1	Scaffold626	235626	CC	AA	1946966537
SNP_P4_138479_235631	NW_004516049.1	Scaffold626	235631	CC	TT	1946966539
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SNP_P4_138485_236233	NW_004516049.1	Scaffold626	236233	TT	AA	1946966551
SNP_P4_138486_236236	NW_004516049.1	Scaffold626	236236	TT	AA	1946966553
SNP_P4_138487_236240	NW_004516049.1	Scaffold626	236240	CC	GG	1946966555
SNP_P4_138488_236437	NW_004516049.1	Scaffold626	236437	CC	TT	1946966557
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SNP_P4_138490_236520	NW_004516049.1	Scaffold626	236520	AA	GG	1946966561
SNP_P4_138491_236581	NW_004516049.1	Scaffold626	236581	GG	CC	1946966563
SNP_P4_138492_236592	NW_004516049.1	Scaffold626	236592	GG	AA	1946966565
SNP_P4_138493_236623	NW_004516049.1	Scaffold626	236623	CC	TT	1946966567

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_138496_236836	NW_004516049.1	Scaffold626	236836	AA	CC	1946966573
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SNP_P4_138503_237145	NW_004516049.1	Scaffold626	237145	CC	GG	1946966585
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SNP_P4_138506_237397	NW_004516049.1	Scaffold626	237397	GG	AA	1946966591
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SNP_P4_138509_237875	NW_004516049.1	Scaffold626	237875	TT	GG	1946966597
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SNP_P4_138514_238331	NW_004516049.1	Scaffold626	238331	TT	CC	1946966607
SNP_P4_138515_239336	NW_004516049.1	Scaffold626	239336	AA	TT	1946966609
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SNP_P4_138533_241881	NW_004516049.1	Scaffold626	241881	TT	GG	1946966645
SNP_P4_138534_242060	NW_004516049.1	Scaffold626	242060	GG	CC	1946966647
SNP_P4_138535_242072	NW_004516049.1	Scaffold626	242072	AA	CC	1946966649
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_138541_255213	NW_004516049.1	Scaffold626	255213	AA	GG	1946966657
SNP_P4_138542_255550	NW_004516049.1	Scaffold626	255550	TT	AA	1946966659
SNP_P4_138543_255589	NW_004516049.1	Scaffold626	255589	CC	TT	1946966661
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SNP_P4_138545_257626	NW_004516049.1	Scaffold626	257626	CC	TT	1946966665
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SNP_P4_138547_257757	NW_004516049.1	Scaffold626	257757	TT	GG	1946966670
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SNP_P4_138580_270224	NW_004516049.1	Scaffold626	270224	TT	AA	1946966733
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_138587_270568	NW_004516049.1	Scaffold626	270568	AA	GG	1946966745
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SNP_P4_138589_270614	NW_004516049.1	Scaffold626	270614	AA	TT	1946966749
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SNP_P4_138592_270972	NW_004516049.1	Scaffold626	270972	TT	GG	1946966755
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SNP_P4_138595_271219	NW_004516049.1	Scaffold626	271219	AA	GG	1946966761
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SNP_P4_138618_275745	NW_004516049.1	Scaffold626	275745	AA	GG	1946966803
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SNP_P4_138621_276385	NW_004516049.1	Scaffold626	276385	GG	CC	1946966809
SNP_P4_138622_278600	NW_004516049.1	Scaffold626	278600	GG	AA	1946966811
SNP_P4_138623_278601	NW_004516049.1	Scaffold626	278601	AA	TT	1946966813
SNP_P4_138624_278618	NW_004516049.1	Scaffold626	278618	TT	GG	1946966815
SNP_P4_138625_278646	NW_004516049.1	Scaffold626	278646	TT	CC	1946966817
SNP_P4_138626_279899	NW_004516049.1	Scaffold626	279899	AA	CC	1946966819

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_138628_280240	NW_004516049.1	Scaffold626	280240	CC	GG	1946966823
SNP_P4_138629_281247	NW_004516049.1	Scaffold626	281247	AA	GG	1946966825
SNP_P4_138630_281429	NW_004516049.1	Scaffold626	281429	GG	AA	1946966827
SNP_P4_138631_281468	NW_004516049.1	Scaffold626	281468	CC	AA	1946966829
SNP_P4_138632_281476	NW_004516049.1	Scaffold626	281476	AA	CC	1946966831
SNP_P4_138633_281478	NW_004516049.1	Scaffold626	281478	GG	AA	1946966833
SNP_P4_138634_281570	NW_004516049.1	Scaffold626	281570	AA	TT	1946966835
SNP_P4_138635_281612	NW_004516049.1	Scaffold626	281612	CC	TT	1946966837
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SNP_P4_138637_281636	NW_004516049.1	Scaffold626	281636	AA	GG	1946966841
SNP_P4_138638_281728	NW_004516049.1	Scaffold626	281728	AA	CC	1946966843
SNP_P4_138639_281761	NW_004516049.1	Scaffold626	281761	AA	TT	1946966845
SNP_P4_138640_282809	NW_004516049.1	Scaffold626	282809	TT	AA	1946966847
SNP_P4_138641_283121	NW_004516049.1	Scaffold626	283121	AA	TT	1946966849
SNP_P4_138642_283251	NW_004516049.1	Scaffold626	283251	TT	AA	1946966851
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SNP_P4_138644_292517	NW_004516049.1	Scaffold626	292517	CC	TT	1946966855
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SNP_P4_138652_324587	NW_004516049.1	Scaffold626	324587	TT	CC	1946966871
SNP_P4_138653_328622	NW_004516049.1	Scaffold626	328622	TT	AA	1946966873
SNP_P4_138654_335480	NW_004516049.1	Scaffold626	335480	GG	AA	1946966875
SNP_P4_138655_335491	NW_004516049.1	Scaffold626	335491	GG	AA	1946966877
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SNP_P4_138666_351808	NW_004516049.1	Scaffold626	351808	CC	AA	1946966900
SNP_P4_138667_351983	NW_004516049.1	Scaffold626	351983	TT	GG	1946966902
SNP_P4_138668_352112	NW_004516049.1	Scaffold626	352112	CC	TT	1946966904

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_138672_356345	NW_004516049.1	Scaffold626	356345	TT	CC	1946966908
SNP_P4_138673_356358	NW_004516049.1	Scaffold626	356358	TT	CC	1946966910
SNP_P4_138674_356359	NW_004516049.1	Scaffold626	356359	GG	AA	1946966912
SNP_P4_138675_356394	NW_004516049.1	Scaffold626	356394	GG	CC	1946966914
SNP_P4_138676_357406	NW_004516049.1	Scaffold626	357406	AA	TT	1946966916
SNP_P4_138677_365530	NW_004516049.1	Scaffold626	365530	AA	CC	1946966918
SNP_P4_138678_365886	NW_004516049.1	Scaffold626	365886	CC	TT	1946966920
SNP_P4_138679_366790	NW_004516049.1	Scaffold626	366790	AA	GG	1946966922
SNP_P4_138680_368053	NW_004516049.1	Scaffold626	368053	GG	TT	1946966924
SNP_P4_138681_371611	NW_004516049.1	Scaffold626	371611	GG	TT	1946966926
SNP_P4_138682_371624	NW_004516049.1	Scaffold626	371624	GG	TT	1946966928
SNP_P4_138683_374839	NW_004516049.1	Scaffold626	374839	AA	TT	1946966930
SNP_P4_138684_376649	NW_004516049.1	Scaffold626	376649	CC	TT	1946966932
SNP_P4_138685_376736	NW_004516049.1	Scaffold626	376736	TT	AA	1946966934
SNP_P4_138686_376745	NW_004516049.1	Scaffold626	376745	GG	TT	1946966936
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SNP_P4_138688_377046	NW_004516049.1	Scaffold626	377046	GG	TT	1946966940
SNP_P4_138689_377108	NW_004516049.1	Scaffold626	377108	GG	AA	1946966942
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SNP_P4_138692_386268	NW_004516049.1	Scaffold626	386268	AA	GG	1946966948
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SNP_P4_138697_386632	NW_004516049.1	Scaffold626	386632	GG	CC	1946966958
SNP_P4_138698_386649	NW_004516049.1	Scaffold626	386649	AA	GG	1946966960
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SNP_P4_138702_387840	NW_004516049.1	Scaffold626	387840	AA	TT	1946966968
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SNP_P4_138710_388429	NW_004516049.1	Scaffold626	388429	AA	GG	1946966982
SNP_P4_138711_388453	NW_004516049.1	Scaffold626	388453	AA	CC	1946966984
SNP_P4_138712_388458	NW_004516049.1	Scaffold626	388458	GG	AA	1946966986
SNP_P4_138713_388535	NW_004516049.1	Scaffold626	388535	AA	TT	1946966988

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_138716_392157	NW_004516049.1	Scaffold626	392157	CC	AA	1946966994
SNP_P4_138717_392268	NW_004516049.1	Scaffold626	392268	GG	AA	1946966996
SNP_P4_138718_392329	NW_004516049.1	Scaffold626	392329	AA	GG	1946966998
SNP_P4_138719_393456	NW_004516049.1	Scaffold626	393456	AA	GG	1946967000
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SNP_P4_138722_393778	NW_004516049.1	Scaffold626	393778	CC	TT	1946967006
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SNP_P4_138724_396249	NW_004516049.1	Scaffold626	396249	AA	GG	1946967010
SNP_P4_138725_400492	NW_004516049.1	Scaffold626	400492	CC	TT	1946967012
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SNP_P4_138727_420714	NW_004516049.1	Scaffold626	420714	AA	CC	1946967016
SNP_P4_138728_420740	NW_004516049.1	Scaffold626	420740	AA	GG	1946967018
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SNP_P4_138731_424519	NW_004516049.1	Scaffold626	424519	TT	CC	1946967024
SNP_P4_138732_424547	NW_004516049.1	Scaffold626	424547	AA	GG	1946967026
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SNP_P4_138737_451546	NW_004516049.1	Scaffold626	451546	CC	TT	1946967036
SNP_P4_138738_451660	NW_004516049.1	Scaffold626	451660	CC	GG	1946967038
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SNP_P4_138754_453753	NW_004516049.1	Scaffold626	453753	CC	TT	1946967066
SNP_P4_138755_453761	NW_004516049.1	Scaffold626	453761	GG	AA	1946967068
SNP_P4_138756_453811	NW_004516049.1	Scaffold626	453811	TT	CC	1946967070
SNP_P4_138757_453854	NW_004516049.1	Scaffold626	453854	GG	TT	1946967072

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_138760_453997	NW_004516049.1	Scaffold626	453997	CC	GG	1946967078
SNP_P4_138761_454100	NW_004516049.1	Scaffold626	454100	GG	CC	1946967080
SNP_P4_138762_454113	NW_004516049.1	Scaffold626	454113	CC	TT	1946967082
SNP_P4_138763_454170	NW_004516049.1	Scaffold626	454170	AA	GG	1946967084
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SNP_P4_138765_454264	NW_004516049.1	Scaffold626	454264	AA	TT	1946967088
SNP_P4_138766_454430	NW_004516049.1	Scaffold626	454430	AA	TT	1946967090
SNP_P4_138768_454619	NW_004516049.1	Scaffold626	454619	CC	TT	1946967092
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SNP_P4_138770_456763	NW_004516049.1	Scaffold626	456763	CC	TT	1946967096
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SNP_P4_138773_461357	NW_004516049.1	Scaffold626	461357	TT	AA	1946967102
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SNP_P4_138788_463845	NW_004516049.1	Scaffold626	463845	AA	GG	1946967133
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SNP_P4_138798_465312	NW_004516049.1	Scaffold626	465312	CC	TT	1946967154
SNP_P4_138799_465383	NW_004516049.1	Scaffold626	465383	CC	AA	1946967156
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_138803_467421	NW_004516049.1	Scaffold626	467421	CC	TT	1946967164
SNP_P4_138804_467489	NW_004516049.1	Scaffold626	467489	AA	CC	1946967166
SNP_P4_138805_467499	NW_004516049.1	Scaffold626	467499	AA	GG	1946967168
SNP_P4_138806_467554	NW_004516049.1	Scaffold626	467554	CC	TT	1946967170
SNP_P4_138807_467674	NW_004516049.1	Scaffold626	467674	CC	AA	1946967172
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SNP_P4_138809_467679	NW_004516049.1	Scaffold626	467679	CC	TT	1946967176
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SNP_P4_138811_475473	NW_004516049.1	Scaffold626	475473	AA	GG	1946967180
SNP_P4_138812_476333	NW_004516049.1	Scaffold626	476333	TT	GG	1946967182
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SNP_P4_138825_478672	NW_004516049.1	Scaffold626	478672	CC	GG	1946967208
SNP_P4_138826_478906	NW_004516049.1	Scaffold626	478906	TT	GG	1946967210
SNP_P4_138827_479546	NW_004516049.1	Scaffold626	479546	AA	GG	1946967212
SNP_P4_138828_479915	NW_004516049.1	Scaffold626	479915	AA	GG	1946967214
SNP_P4_138829_480081	NW_004516049.1	Scaffold626	480081	AA	GG	1946967216
SNP_P4_138830_480397	NW_004516049.1	Scaffold626	480397	CC	TT	1946967218
SNP_P4_138831_480524	NW_004516049.1	Scaffold626	480524	TT	CC	1946967220
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SNP_P4_138833_480760	NW_004516049.1	Scaffold626	480760	TT	CC	1946967224
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SNP_P4_138839_483322	NW_004516049.1	Scaffold626	483322	CC	TT	1946967236
SNP_P4_138840_483365	NW_004516049.1	Scaffold626	483365	TT	AA	1946967238
SNP_P4_138841_483431	NW_004516049.1	Scaffold626	483431	AA	CC	1946967240
SNP_P4_138842_483525	NW_004516049.1	Scaffold626	483525	GG	CC	1946967242

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_138844_483689	NW_004516049.1	Scaffold626	483689	TT	GG	1946967246
SNP_P4_138845_483829	NW_004516049.1	Scaffold626	483829	CC	AA	1946967248
SNP_P4_138846_483886	NW_004516049.1	Scaffold626	483886	GG	AA	1946967250
SNP_P4_138847_483942	NW_004516049.1	Scaffold626	483942	AA	GG	1946967252
SNP_P4_138848_483957	NW_004516049.1	Scaffold626	483957	GG	AA	1946967254
SNP_P4_138849_484076	NW_004516049.1	Scaffold626	484076	GG	TT	1946967256
SNP_P4_138850_484093	NW_004516049.1	Scaffold626	484093	TT	GG	1946967258
SNP_P4_138851_484202	NW_004516049.1	Scaffold626	484202	TT	CC	1946967260
SNP_P4_138852_484233	NW_004516049.1	Scaffold626	484233	GG	AA	1946967262
SNP_P4_138853_484305	NW_004516049.1	Scaffold626	484305	GG	AA	1946967264
SNP_P4_138854_484346	NW_004516049.1	Scaffold626	484346	TT	CC	1946967266
SNP_P4_138855_484606	NW_004516049.1	Scaffold626	484606	CC	TT	1946967268
SNP_P4_138856_484743	NW_004516049.1	Scaffold626	484743	TT	GG	1946967270
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SNP_P4_138860_485256	NW_004516049.1	Scaffold626	485256	CC	TT	1946967278
SNP_P4_138861_485383	NW_004516049.1	Scaffold626	485383	GG	AA	1946967280
SNP_P4_138862_485596	NW_004516049.1	Scaffold626	485596	TT	AA	1946967282
SNP_P4_138863_485847	NW_004516049.1	Scaffold626	485847	CC	TT	1946967284
SNP_P4_138864_485959	NW_004516049.1	Scaffold626	485959	CC	TT	1946967286
SNP_P4_138865_486056	NW_004516049.1	Scaffold626	486056	AA	GG	1946967288
SNP_P4_138867_487625	NW_004516049.1	Scaffold626	487625	CC	AA	1946967290
SNP_P4_138868_488177	NW_004516049.1	Scaffold626	488177	TT	CC	1946967292
SNP_P4_138869_488414	NW_004516049.1	Scaffold626	488414	TT	CC	1946967294
SNP_P4_138870_488496	NW_004516049.1	Scaffold626	488496	TT	CC	1946967296
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SNP_P4_138876_488731	NW_004516049.1	Scaffold626	488731	TT	GG	1946967308
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SNP_P4_138880_490608	NW_004516049.1	Scaffold626	490608	TT	AA	1946967316
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SNP_P4_138882_491107	NW_004516049.1	Scaffold626	491107	TT	CC	1946967320
SNP_P4_138883_491138	NW_004516049.1	Scaffold626	491138	GG	AA	1946967322
SNP_P4_138884_503109	NW_004516049.1	Scaffold626	503109	TT	GG	1946967324
SNP_P4_138885_504533	NW_004516049.1	Scaffold626	504533	GG	AA	1946967326

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_138888_505024	NW_004516049.1	Scaffold626	505024	CC	TT	1946967332
SNP_P4_138889_505046	NW_004516049.1	Scaffold626	505046	TT	CC	1946967334
SNP_P4_138890_505118	NW_004516049.1	Scaffold626	505118	GG	AA	1946967336
SNP_P4_138891_505256	NW_004516049.1	Scaffold626	505256	AA	GG	1946967338
SNP_P4_138892_505273	NW_004516049.1	Scaffold626	505273	GG	CC	1946967340
SNP_P4_138893_505839	NW_004516049.1	Scaffold626	505839	CC	GG	1946967342
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SNP_P4_138895_507099	NW_004516049.1	Scaffold626	507099	GG	AA	1946967346
SNP_P4_138896_507118	NW_004516049.1	Scaffold626	507118	GG	AA	1946967348
SNP_P4_138897_507131	NW_004516049.1	Scaffold626	507131	CC	TT	1946967350
SNP_P4_138898_507326	NW_004516049.1	Scaffold626	507326	AA	TT	1946967352
SNP_P4_138899_509286	NW_004516049.1	Scaffold626	509286	TT	GG	1946967354
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SNP_P4_138911_510280	NW_004516049.1	Scaffold626	510280	TT	CC	1946967376
SNP_P4_138912_510370	NW_004516049.1	Scaffold626	510370	CC	TT	1946967378
SNP_P4_138913_510402	NW_004516049.1	Scaffold626	510402	CC	AA	1946967380
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SNP_P4_138927_515662	NW_004516049.1	Scaffold626	515662	TT	CC	1946967405
SNP_P4_138928_515666	NW_004516049.1	Scaffold626	515666	AA	GG	1946967407
SNP_P4_138929_515683	NW_004516049.1	Scaffold626	515683	CC	TT	1946967409
SNP_P4_138930_515719	NW_004516049.1	Scaffold626	515719	CC	TT	1946967410

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_138933_517125	NW_004516049.1	Scaffold626	517125	GG	AA	1946967413
SNP_P4_138934_517182	NW_004516049.1	Scaffold626	517182	TT	GG	1946967414
SNP_P4_138935_517291	NW_004516049.1	Scaffold626	517291	AA	GG	1946967415
SNP_P4_138936_517501	NW_004516049.1	Scaffold626	517501	CC	GG	1946967416
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SNP_P4_138941_519121	NW_004516049.1	Scaffold626	519121	CC	TT	1946967424
SNP_P4_138942_519300	NW_004516049.1	Scaffold626	519300	AA	TT	1946967426
SNP_P4_138943_519323	NW_004516049.1	Scaffold626	519323	GG	CC	1946967428
SNP_P4_138944_519347	NW_004516049.1	Scaffold626	519347	GG	TT	1946967430
SNP_P4_138945_519351	NW_004516049.1	Scaffold626	519351	CC	GG	1946967432
SNP_P4_138946_519409	NW_004516049.1	Scaffold626	519409	GG	TT	1946967434
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SNP_P4_138973_522878	NW_004516049.1	Scaffold626	522878	GG	AA	1946967485
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_138977_523098	NW_004516049.1	Scaffold626	523098	TT	AA	1946967493
SNP_P4_138978_523844	NW_004516049.1	Scaffold626	523844	CC	TT	1946967495
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SNP_P4_139015_527363	NW_004516049.1	Scaffold626	527363	CC	TT	1946967567
SNP_P4_139016_527365	NW_004516049.1	Scaffold626	527365	TT	CC	1946967569
SNP_P4_139017_527434	NW_004516049.1	Scaffold626	527434	CC	GG	1946967571

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_139022_529221	NW_004516049.1	Scaffold626	529221	GG	AA	1946967579
SNP_P4_139023_529956	NW_004516049.1	Scaffold626	529956	TT	GG	1946967581
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SNP_P4_139040_543052	NW_004516049.1	Scaffold626	543052	GG	AA	1946967613
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SNP_P4_139059_551801	NW_004516049.1	Scaffold626	551801	CC	TT	1946967651
SNP_P4_139060_551912	NW_004516049.1	Scaffold626	551912	TT	CC	1946967653
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_139064_552209	NW_004516049.1	Scaffold626	552209	GG	CC	1946967661
SNP_P4_139065_552275	NW_004516049.1	Scaffold626	552275	TT	CC	1946967663
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SNP_P4_139067_552361	NW_004516049.1	Scaffold626	552361	AA	TT	1946967667
SNP_P4_139068_552397	NW_004516049.1	Scaffold626	552397	CC	AA	1946967669
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SNP_P4_139073_552729	NW_004516049.1	Scaffold626	552729	CC	TT	1946967679
SNP_P4_139074_552756	NW_004516049.1	Scaffold626	552756	CC	TT	1946967681
SNP_P4_139075_552765	NW_004516049.1	Scaffold626	552765	TT	CC	1946967683
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SNP_P4_139077_553158	NW_004516049.1	Scaffold626	553158	GG	CC	1946967687
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SNP_P4_139080_553311	NW_004516049.1	Scaffold626	553311	TT	CC	1946967691
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SNP_P4_139103_558479	NW_004516049.1	Scaffold626	558479	GG	AA	1946967732
SNP_P4_139104_558920	NW_004516049.1	Scaffold626	558920	TT	AA	1946967734
SNP_P4_139105_559566	NW_004516049.1	Scaffold626	559566	CC	TT	1946967736
SNP_P4_139106_561171	NW_004516049.1	Scaffold626	561171	AA	GG	1946967738

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_139109_561295	NW_004516049.1	Scaffold626	561295	AA	GG	1946967744
SNP_P4_139110_561348	NW_004516049.1	Scaffold626	561348	TT	AA	1946967746
SNP_P4_139111_561382	NW_004516049.1	Scaffold626	561382	AA	TT	1946967748
SNP_P4_139112_561474	NW_004516049.1	Scaffold626	561474	GG	CC	1946967750
SNP_P4_139113_561537	NW_004516049.1	Scaffold626	561537	CC	TT	1946967752
SNP_P4_139115_561584	NW_004516049.1	Scaffold626	561584	TT	CC	1946967754
SNP_P4_139116_561618	NW_004516049.1	Scaffold626	561618	TT	GG	1946967756
SNP_P4_139117_561654	NW_004516049.1	Scaffold626	561654	CC	TT	1946967758
SNP_P4_139118_561666	NW_004516049.1	Scaffold626	561666	TT	AA	1946967761
SNP_P4_139119_561747	NW_004516049.1	Scaffold626	561747	GG	TT	1946967763
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SNP_P4_139124_561868	NW_004516049.1	Scaffold626	561868	GG	AA	1946967773
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SNP_P4_139126_561934	NW_004516049.1	Scaffold626	561934	CC	GG	1946967777
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SNP_P4_139131_565698	NW_004516049.1	Scaffold626	565698	AA	GG	1946967788
SNP_P4_139132_569818	NW_004516049.1	Scaffold626	569818	GG	AA	1946967790
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SNP_P4_139137_571973	NW_004516049.1	Scaffold626	571973	GG	AA	1946967800
SNP_P4_139138_571980	NW_004516049.1	Scaffold626	571980	AA	GG	1946967802
SNP_P4_139139_572203	NW_004516049.1	Scaffold626	572203	TT	GG	1946967804
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SNP_P4_139143_574319	NW_004516049.1	Scaffold626	574319	AA	GG	1946967812
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SNP_P4_139145_575002	NW_004516049.1	Scaffold626	575002	GG	TT	1946967816
SNP_P4_139146_576218	NW_004516049.1	Scaffold626	576218	TT	GG	1946967818
SNP_P4_139147_576441	NW_004516049.1	Scaffold626	576441	GG	AA	1946967820
SNP_P4_139148_576509	NW_004516049.1	Scaffold626	576509	GG	AA	1946967822
SNP_P4_139149_580584	NW_004516049.1	Scaffold626	580584	GG	CC	1946967824

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_139151_580958	NW_004516049.1	Scaffold626	580958	CC	AA	1946967828
SNP_P4_139152_580960	NW_004516049.1	Scaffold626	580960	GG	AA	1946967830
SNP_P4_139153_580995	NW_004516049.1	Scaffold626	580995	CC	TT	1946967833
SNP_P4_139154_581811	NW_004516049.1	Scaffold626	581811	CC	TT	1946967835
SNP_P4_139155_581835	NW_004516049.1	Scaffold626	581835	GG	AA	1946967837
SNP_P4_139156_582112	NW_004516049.1	Scaffold626	582112	CC	TT	1946967839
SNP_P4_139157_586962	NW_004516049.1	Scaffold626	586962	AA	TT	1946967841
SNP_P4_139158_589763	NW_004516049.1	Scaffold626	589763	TT	AA	1946967843
SNP_P4_139159_589773	NW_004516049.1	Scaffold626	589773	CC	AA	1946967845
SNP_P4_139160_590445	NW_004516049.1	Scaffold626	590445	CC	TT	1946967847
SNP_P4_139161_590448	NW_004516049.1	Scaffold626	590448	AA	GG	1946967849
SNP_P4_139162_590531	NW_004516049.1	Scaffold626	590531	TT	AA	1946967851
SNP_P4_139163_590538	NW_004516049.1	Scaffold626	590538	CC	TT	1946967853
SNP_P4_139164_590540	NW_004516049.1	Scaffold626	590540	AA	GG	1946967855
SNP_P4_139165_590555	NW_004516049.1	Scaffold626	590555	CC	TT	1946967857
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SNP_P4_139167_591655	NW_004516049.1	Scaffold626	591655	TT	AA	1946967861
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SNP_P4_139174_593306	NW_004516049.1	Scaffold626	593306	TT	AA	1946967875
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SNP_P4_139184_41140	NW_004516050.1	Scaffold627	41140	GG	AA	1946967891
SNP_P4_139185_45807	NW_004516050.1	Scaffold627	45807	TT	CC	1946967893
SNP_P4_139186_45812	NW_004516050.1	Scaffold627	45812	GG	TT	1946967895
SNP_P4_139187_49761	NW_004516050.1	Scaffold627	49761	AA	GG	1946967897
SNP_P4_139188_60833	NW_004516050.1	Scaffold627	60833	TT	CC	1946967899
SNP_P4_139189_61020	NW_004516050.1	Scaffold627	61020	GG	AA	1946967901
SNP_P4_139190_61045	NW_004516050.1	Scaffold627	61045	AA	TT	1946967903
SNP_P4_139191_61048	NW_004516050.1	Scaffold627	61048	TT	AA	1946967905
SNP_P4_139192_61050	NW_004516050.1	Scaffold627	61050	TT	AA	1946967907
SNP_P4_139193_61074	NW_004516050.1	Scaffold627	61074	TT	CC	1946967909

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_139195_61284	NW_004516050.1	Scaffold627	61284	AA	CC	1946967913
SNP_P4_139196_61515	NW_004516050.1	Scaffold627	61515	CC	AA	1946967915
SNP_P4_139197_66277	NW_004516050.1	Scaffold627	66277	GG	TT	1946967917
SNP_P4_139198_70100	NW_004516050.1	Scaffold627	70100	CC	TT	1946967919
SNP_P4_139199_79659	NW_004516050.1	Scaffold627	79659	AA	CC	1946967921
SNP_P4_139200_79733	NW_004516050.1	Scaffold627	79733	AA	CC	1946967923
SNP_P4_139201_94809	NW_004516050.1	Scaffold627	94809	AA	TT	1946967925
SNP_P4_139202_221	NW_004516051.1	Scaffold629	221	TT	AA	1946967927
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SNP_P4_139204_12626	NW_004516051.1	Scaffold629	12626	AA	GG	1946967932
SNP_P4_139205_12644	NW_004516051.1	Scaffold629	12644	AA	TT	1946967934
SNP_P4_139206_12648	NW_004516051.1	Scaffold629	12648	TT	AA	1946967936
SNP_P4_139207_12657	NW_004516051.1	Scaffold629	12657	TT	GG	1946967938
SNP_P4_139208_12666	NW_004516051.1	Scaffold629	12666	AA	GG	1946967940
SNP_P4_139209_12675	NW_004516051.1	Scaffold629	12675	AA	CC	1946967942
SNP_P4_139210_12683	NW_004516051.1	Scaffold629	12683	AA	GG	1946967944
SNP_P4_139211_13036	NW_004516051.1	Scaffold629	13036	AA	TT	1946967946
SNP_P4_139212_14576	NW_004516051.1	Scaffold629	14576	TT	CC	1946967948
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SNP_P4_139222_31047	NW_004516051.1	Scaffold629	31047	AA	GG	1946967966
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SNP_P4_139228_56116	NW_004516051.1	Scaffold629	56116	TT	CC	1946967978
SNP_P4_139229_56206	NW_004516051.1	Scaffold629	56206	GG	AA	1946967980
SNP_P4_139230_56512	NW_004516051.1	Scaffold629	56512	TT	AA	1946967982
SNP_P4_139231_56526	NW_004516051.1	Scaffold629	56526	AA	TT	1946967984
SNP_P4_139232_56576	NW_004516051.1	Scaffold629	56576	GG	AA	1946967986
SNP_P4_139233_56580	NW_004516051.1	Scaffold629	56580	AA	GG	1946967988
SNP_P4_139234_56593	NW_004516051.1	Scaffold629	56593	TT	CC	1946967989
SNP_P4_139235_56731	NW_004516051.1	Scaffold629	56731	CC	TT	1946967991
SNP_P4_139236_58567	NW_004516051.1	Scaffold629	58567	AA	GG	1946967993

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_139239_1024	NW_004516052.1	Scaffold631	1024	CC	GG	1946967997
SNP_P4_139240_1378	NW_004516052.1	Scaffold631	1378	CC	TT	1946967999
SNP_P4_139241_11969	NW_004516052.1	Scaffold631	11969	CC	TT	1946968001
SNP_P4_139242_11986	NW_004516052.1	Scaffold631	11986	AA	TT	1946968003
SNP_P4_139243_12962	NW_004516052.1	Scaffold631	12962	AA	GG	1946968005
SNP_P4_139244_13141	NW_004516052.1	Scaffold631	13141	AA	GG	1946968007
SNP_P4_139245_13170	NW_004516052.1	Scaffold631	13170	AA	GG	1946968009
SNP_P4_139246_22518	NW_004516052.1	Scaffold631	22518	GG	TT	1946968011
SNP_P4_139247_22767	NW_004516052.1	Scaffold631	22767	TT	CC	1946968013
SNP_P4_139248_22792	NW_004516052.1	Scaffold631	22792	AA	GG	1946968015
SNP_P4_139249_32415	NW_004516052.1	Scaffold631	32415	GG	AA	1946968017
SNP_P4_139250_44615	NW_004516052.1	Scaffold631	44615	AA	CC	1946968019
SNP_P4_139251_45048	NW_004516052.1	Scaffold631	45048	AA	CC	1946968021
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SNP_P4_139254_52886	NW_004516052.1	Scaffold631	52886	TT	AA	1946968027
SNP_P4_139255_52968	NW_004516052.1	Scaffold631	52968	TT	CC	1946968029
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SNP_P4_139279_69076	NW_004516052.1	Scaffold631	69076	AA	CC	1946968076
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_139283_70274	NW_004516052.1	Scaffold631	70274	CC	AA	1946968084
SNP_P4_139284_70359	NW_004516052.1	Scaffold631	70359	AA	GG	1946968086
SNP_P4_139285_70405	NW_004516052.1	Scaffold631	70405	GG	AA	1946968088
SNP_P4_139286_70567	NW_004516052.1	Scaffold631	70567	CC	GG	1946968090
SNP_P4_139287_70574	NW_004516052.1	Scaffold631	70574	TT	CC	1946968092
SNP_P4_139288_70584	NW_004516052.1	Scaffold631	70584	AA	TT	1946968094
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SNP_P4_139290_71111	NW_004516052.1	Scaffold631	71111	AA	CC	1946968098
SNP_P4_139291_71400	NW_004516052.1	Scaffold631	71400	TT	GG	1946968100
SNP_P4_139292_71413	NW_004516052.1	Scaffold631	71413	TT	AA	1946968102
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SNP_P4_139297_74265	NW_004516052.1	Scaffold631	74265	TT	CC	1946968112
SNP_P4_139298_74473	NW_004516052.1	Scaffold631	74473	GG	TT	1946968114
SNP_P4_139299_74479	NW_004516052.1	Scaffold631	74479	TT	GG	1946968116
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SNP_P4_139322_13322	NW_004516053.1	Scaffold632	13322	GG	TT	1946968161
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_139326_17837	NW_004516053.1	Scaffold632	17837	AA	TT	1946968167
SNP_P4_139327_18149	NW_004516053.1	Scaffold632	18149	AA	GG	1946968169
SNP_P4_139328_435	NW_004516054.1	Scaffold633	435	AA	GG	1946968171
SNP_P4_139329_750	NW_004516054.1	Scaffold633	750	AA	CC	1946968173
SNP_P4_139330_521	NW_004516055.1	Scaffold635	521	CC	AA	1946968175
SNP_P4_139331_9621	NW_004516057.1	Scaffold637	9621	CC	TT	1946968177
SNP_P4_139332_9666	NW_004516057.1	Scaffold637	9666	CC	TT	1946968178
SNP_P4_139333_9692	NW_004516057.1	Scaffold637	9692	CC	GG	1946968180
SNP_P4_139334_9716	NW_004516057.1	Scaffold637	9716	AA	CC	1946968182
SNP_P4_139335_9727	NW_004516057.1	Scaffold637	9727	AA	GG	1946968184
SNP_P4_139336_9757	NW_004516057.1	Scaffold637	9757	AA	GG	1946968186
SNP_P4_139337_14610	NW_004516057.1	Scaffold637	14610	AA	GG	1946968188
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_139374_170221	NW_004516057.1	Scaffold637	170221	GG	CC	1946968256
SNP_P4_139375_173979	NW_004516057.1	Scaffold637	173979	CC	TT	1946968258
SNP_P4_139376_182799	NW_004516057.1	Scaffold637	182799	CC	TT	1946968260
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SNP_P4_139411_21688	NW_004516058.1	Scaffold639	21688	AA	GG	1946968327
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_139416_31860	NW_004516058.1	Scaffold639	31860	AA	GG	1946968337
SNP_P4_139417_31967	NW_004516058.1	Scaffold639	31967	TT	AA	1946968339
SNP_P4_139418_31985	NW_004516058.1	Scaffold639	31985	GG	AA	1946968341
SNP_P4_139419_32132	NW_004516058.1	Scaffold639	32132	AA	TT	1946968343
SNP_P4_139420_33159	NW_004516058.1	Scaffold639	33159	AA	TT	1946968345
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SNP_P4_139455_102631	NW_004516058.1	Scaffold639	102631	TT	AA	1946968411
SNP_P4_139456_102651	NW_004516058.1	Scaffold639	102651	GG	TT	1946968413

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_139461_104990	NW_004516058.1	Scaffold639	104990	GG	CC	1946968421
SNP_P4_139462_113576	NW_004516058.1	Scaffold639	113576	AA	GG	1946968423
SNP_P4_139463_113676	NW_004516058.1	Scaffold639	113676	TT	CC	1946968425
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SNP_P4_139465_113806	NW_004516058.1	Scaffold639	113806	TT	AA	1946968429
SNP_P4_139466_113937	NW_004516058.1	Scaffold639	113937	GG	AA	1946968431
SNP_P4_139467_113949	NW_004516058.1	Scaffold639	113949	CC	TT	1946968433
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SNP_P4_139470_114346	NW_004516058.1	Scaffold639	114346	GG	TT	1946968439
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SNP_P4_139478_114937	NW_004516058.1	Scaffold639	114937	AA	GG	1946968456
SNP_P4_139479_119875	NW_004516058.1	Scaffold639	119875	CC	TT	1946968458
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_139508_184046	NW_004516058.1	Scaffold639	184046	AA	TT	1946968514
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SNP_P4_139511_184483	NW_004516058.1	Scaffold639	184483	AA	TT	1946968520
SNP_P4_139512_184648	NW_004516058.1	Scaffold639	184648	TT	CC	1946968522
SNP_P4_139513_577	NW_004516059.1	Scaffold641	577	CC	TT	1946968524
SNP_P4_139514_3136	NW_004516059.1	Scaffold641	3136	GG	AA	1946968526
SNP_P4_139515_3364	NW_004516059.1	Scaffold641	3364	GG	TT	1946968528
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SNP_P4_139541_179018	NW_004516060.1	Scaffold642	179018	AA	GG	1946968568
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SNP_P4_139545_205325	NW_004516060.1	Scaffold642	205325	GG	AA	1946968576
SNP_P4_139547_289135	NW_004516060.1	Scaffold642	289135	CC	AA	1946968578
SNP_P4_139551_320235	NW_004516060.1	Scaffold642	320235	CC	TT	1946968580
SNP_P4_139552_320420	NW_004516060.1	Scaffold642	320420	GG	TT	1946968582

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_139555_320695	NW_004516060.1	Scaffold642	320695	AA	GG	1946968588
SNP_P4_139556_320838	NW_004516060.1	Scaffold642	320838	CC	TT	1946968590
SNP_P4_139557_331500	NW_004516060.1	Scaffold642	331500	CC	AA	1946968592
SNP_P4_139558_334143	NW_004516060.1	Scaffold642	334143	CC	AA	1946968594
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SNP_P4_139560_334160	NW_004516060.1	Scaffold642	334160	TT	AA	1946968598
SNP_P4_139561_334166	NW_004516060.1	Scaffold642	334166	TT	AA	1946968600
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SNP_P4_139563_334251	NW_004516060.1	Scaffold642	334251	CC	TT	1946968604
SNP_P4_139564_334500	NW_004516060.1	Scaffold642	334500	AA	GG	1946968606
SNP_P4_139566_337459	NW_004516060.1	Scaffold642	337459	AA	GG	1946968608
SNP_P4_139567_337836	NW_004516060.1	Scaffold642	337836	GG	AA	1946968610
SNP_P4_139568_337907	NW_004516060.1	Scaffold642	337907	GG	TT	1946968612
SNP_P4_139569_338478	NW_004516060.1	Scaffold642	338478	AA	GG	1946968614
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SNP_P4_139578_352000	NW_004516060.1	Scaffold642	352000	AA	GG	1946968632
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SNP_P4_139585_352602	NW_004516060.1	Scaffold642	352602	AA	GG	1946968646
SNP_P4_139586_352668	NW_004516060.1	Scaffold642	352668	TT	CC	1946968648
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SNP_P4_139592_399871	NW_004516060.1	Scaffold642	399871	CC	TT	1946968658
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SNP_P4_139597_433558	NW_004516060.1	Scaffold642	433558	TT	CC	1946968662
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_139603_489823	NW_004516060.1	Scaffold642	489823	CC	TT	1946968670
SNP_P4_139604_502222	NW_004516060.1	Scaffold642	502222	TT	AA	1946968671
SNP_P4_139605_502809	NW_004516060.1	Scaffold642	502809	AA	TT	1946968673
SNP_P4_139606_507832	NW_004516060.1	Scaffold642	507832	AA	TT	1946968675
SNP_P4_139607_507861	NW_004516060.1	Scaffold642	507861	AA	CC	1946968677
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SNP_P4_139611_562049	NW_004516060.1	Scaffold642	562049	AA	CC	1946968681
SNP_P4_139612_590294	NW_004516060.1	Scaffold642	590294	AA	CC	1946968683
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SNP_P4_139615_601479	NW_004516060.1	Scaffold642	601479	AA	CC	1946968687
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_139651_77336	NW_004516061.1	Scaffold643	77336	TT	CC	1946968754
SNP_P4_139652_12489	NW_004516062.1	Scaffold645	12489	TT	AA	1946968756
SNP_P4_139653_21023	NW_004516062.1	Scaffold645	21023	CC	TT	1946968758
SNP_P4_139654_23864	NW_004516062.1	Scaffold645	23864	TT	AA	1946968760
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SNP_P4_139661_51186	NW_004516062.1	Scaffold645	51186	TT	CC	1946968774
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_139698_146955	NW_004516062.1	Scaffold645	146955	GG	TT	1946968837
SNP_P4_139699_147557	NW_004516062.1	Scaffold645	147557	AA	CC	1946968839
SNP_P4_139700_160633	NW_004516062.1	Scaffold645	160633	TT	CC	1946968841
SNP_P4_139701_160783	NW_004516062.1	Scaffold645	160783	AA	GG	1946968843
SNP_P4_139702_161374	NW_004516062.1	Scaffold645	161374	GG	AA	1946968845
SNP_P4_139703_162907	NW_004516062.1	Scaffold645	162907	CC	TT	1946968847
SNP_P4_139704_163221	NW_004516062.1	Scaffold645	163221	TT	CC	1946968849
SNP_P4_139705_167307	NW_004516062.1	Scaffold645	167307	TT	GG	1946968851
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SNP_P4_139707_176152	NW_004516062.1	Scaffold645	176152	TT	AA	1946968855
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SNP_P4_139709_191234	NW_004516062.1	Scaffold645	191234	AA	GG	1946968859
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SNP_P4_139720_225990	NW_004516062.1	Scaffold645	225990	CC	TT	1946968878
SNP_P4_139723_265467	NW_004516062.1	Scaffold645	265467	CC	TT	1946968880
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SNP_P4_139725_279931	NW_004516062.1	Scaffold645	279931	AA	TT	1946968884
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SNP_P4_139737_286993	NW_004516062.1	Scaffold645	286993	AA	GG	1946968907
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SNP_P4_139739_287061	NW_004516062.1	Scaffold645	287061	TT	GG	1946968911

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_139742_287294	NW_004516062.1	Scaffold645	287294	AA	TT	1946968917
SNP_P4_139744_287312	NW_004516062.1	Scaffold645	287312	AA	CC	1946968919
SNP_P4_139745_287317	NW_004516062.1	Scaffold645	287317	GG	CC	1946968921
SNP_P4_139746_287380	NW_004516062.1	Scaffold645	287380	AA	CC	1946968923
SNP_P4_139747_287464	NW_004516062.1	Scaffold645	287464	CC	AA	1946968925
SNP_P4_139748_287465	NW_004516062.1	Scaffold645	287465	AA	TT	1946968927
SNP_P4_139749_287603	NW_004516062.1	Scaffold645	287603	TT	AA	1946968929
SNP_P4_139750_287651	NW_004516062.1	Scaffold645	287651	CC	TT	1946968931
SNP_P4_139751_287698	NW_004516062.1	Scaffold645	287698	CC	AA	1946968933
SNP_P4_139753_287940	NW_004516062.1	Scaffold645	287940	CC	TT	1946968935
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SNP_P4_139755_288208	NW_004516062.1	Scaffold645	288208	GG	TT	1946968939
SNP_P4_139756_288303	NW_004516062.1	Scaffold645	288303	GG	TT	1946968941
SNP_P4_139757_289142	NW_004516062.1	Scaffold645	289142	AA	CC	1946968943
SNP_P4_139758_289421	NW_004516062.1	Scaffold645	289421	GG	CC	1946968945
SNP_P4_139759_289515	NW_004516062.1	Scaffold645	289515	GG	AA	1946968947
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SNP_P4_139764_300148	NW_004516062.1	Scaffold645	300148	AA	GG	1946968957
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SNP_P4_139766_303912	NW_004516062.1	Scaffold645	303912	TT	CC	1946968961
SNP_P4_139767_303924	NW_004516062.1	Scaffold645	303924	TT	GG	1946968963
SNP_P4_139768_752	NW_004516064.1	Scaffold647	752	CC	TT	1946968965
SNP_P4_139769_984	NW_004516064.1	Scaffold647	984	TT	GG	1946968967
SNP_P4_139770_1047	NW_004516064.1	Scaffold647	1047	TT	CC	1946968969
SNP_P4_139771_7329	NW_004516064.1	Scaffold647	7329	TT	CC	1946968971
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SNP_P4_139773_7466	NW_004516064.1	Scaffold647	7466	TT	CC	1946968975
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SNP_P4_139775_7574	NW_004516064.1	Scaffold647	7574	AA	GG	1946968979
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SNP_P4_139780_20859	NW_004516064.1	Scaffold647	20859	AA	GG	1946968989
SNP_P4_139781_21371	NW_004516064.1	Scaffold647	21371	GG	AA	1946968991
SNP_P4_139782_21420	NW_004516064.1	Scaffold647	21420	AA	GG	1946968993
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_139786_23337	NW_004516064.1	Scaffold647	23337	TT	GG	1946969001
SNP_P4_139787_23381	NW_004516064.1	Scaffold647	23381	AA	CC	1946969003
SNP_P4_139788_29848	NW_004516064.1	Scaffold647	29848	GG	CC	1946969005
SNP_P4_139789_29890	NW_004516064.1	Scaffold647	29890	CC	TT	1946969007
SNP_P4_139790_29985	NW_004516064.1	Scaffold647	29985	AA	CC	1946969009
SNP_P4_139791_29986	NW_004516064.1	Scaffold647	29986	TT	AA	1946969011
SNP_P4_139792_29987	NW_004516064.1	Scaffold647	29987	AA	GG	1946969013
SNP_P4_139793_30125	NW_004516064.1	Scaffold647	30125	GG	TT	1946969015
SNP_P4_139794_30493	NW_004516064.1	Scaffold647	30493	GG	CC	1946969017
SNP_P4_139795_30525	NW_004516064.1	Scaffold647	30525	GG	AA	1946969019
SNP_P4_139796_30923	NW_004516064.1	Scaffold647	30923	GG	CC	1946969021
SNP_P4_139797_35924	NW_004516064.1	Scaffold647	35924	GG	AA	1946969023
SNP_P4_139798_35931	NW_004516064.1	Scaffold647	35931	GG	AA	1946969025
SNP_P4_139799_35932	NW_004516064.1	Scaffold647	35932	GG	CC	1946969027
SNP_P4_139800_35968	NW_004516064.1	Scaffold647	35968	TT	AA	1946969029
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SNP_P4_139802_40466	NW_004516064.1	Scaffold647	40466	GG	AA	1946969033
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SNP_P4_139804_40552	NW_004516064.1	Scaffold647	40552	TT	AA	1946969037
SNP_P4_139805_40572	NW_004516064.1	Scaffold647	40572	AA	GG	1946969039
SNP_P4_139806_40583	NW_004516064.1	Scaffold647	40583	TT	GG	1946969041
SNP_P4_139807_40594	NW_004516064.1	Scaffold647	40594	CC	TT	1946969043
SNP_P4_139808_40604	NW_004516064.1	Scaffold647	40604	CC	AA	1946969045
SNP_P4_139809_46851	NW_004516064.1	Scaffold647	46851	GG	AA	1946969047
SNP_P4_139810_47232	NW_004516064.1	Scaffold647	47232	GG	AA	1946969049
SNP_P4_139811_47268	NW_004516064.1	Scaffold647	47268	AA	TT	1946969051
SNP_P4_139812_48939	NW_004516064.1	Scaffold647	48939	AA	GG	1946969053
SNP_P4_139813_49945	NW_004516064.1	Scaffold647	49945	TT	CC	1946969055
SNP_P4_139814_49960	NW_004516064.1	Scaffold647	49960	TT	CC	1946969057
SNP_P4_139815_55468	NW_004516064.1	Scaffold647	55468	GG	TT	1946969059
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SNP_P4_139817_71419	NW_004516064.1	Scaffold647	71419	TT	CC	1946969063
SNP_P4_139818_71764	NW_004516064.1	Scaffold647	71764	AA	CC	1946969065
SNP_P4_139819_71827	NW_004516064.1	Scaffold647	71827	TT	GG	1946969067
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SNP_P4_139821_71891	NW_004516064.1	Scaffold647	71891	TT	CC	1946969071
SNP_P4_139822_71911	NW_004516064.1	Scaffold647	71911	TT	CC	1946969073
SNP_P4_139823_73794	NW_004516064.1	Scaffold647	73794	TT	AA	1946969075
SNP_P4_139824_74415	NW_004516064.1	Scaffold647	74415	TT	CC	1946969077
SNP_P4_139825_82379	NW_004516064.1	Scaffold647	82379	AA	GG	1946969079

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_139828_92977	NW_004516064.1	Scaffold647	92977	CC	TT	1946969085
SNP_P4_139829_93246	NW_004516064.1	Scaffold647	93246	AA	TT	1946969087
SNP_P4_139830_93393	NW_004516064.1	Scaffold647	93393	GG	TT	1946969089
SNP_P4_139831_93395	NW_004516064.1	Scaffold647	93395	GG	TT	1946969091
SNP_P4_139832_93558	NW_004516064.1	Scaffold647	93558	TT	GG	1946969093
SNP_P4_139833_95317	NW_004516064.1	Scaffold647	95317	CC	TT	1946969095
SNP_P4_139834_95337	NW_004516064.1	Scaffold647	95337	CC	TT	1946969097
SNP_P4_139835_95596	NW_004516064.1	Scaffold647	95596	CC	TT	1946969099
SNP_P4_139836_99045	NW_004516064.1	Scaffold647	99045	TT	CC	1946969101
SNP_P4_139837_120567	NW_004516064.1	Scaffold647	120567	CC	TT	1946969103
SNP_P4_139838_120809	NW_004516064.1	Scaffold647	120809	CC	AA	1946969105
SNP_P4_139839_124031	NW_004516064.1	Scaffold647	124031	CC	AA	1946969107
SNP_P4_139840_126289	NW_004516064.1	Scaffold647	126289	GG	AA	1946969109
SNP_P4_139841_132964	NW_004516064.1	Scaffold647	132964	CC	TT	1946969111
SNP_P4_139842_133209	NW_004516064.1	Scaffold647	133209	TT	CC	1946969113
SNP_P4_139843_133400	NW_004516064.1	Scaffold647	133400	AA	GG	1946969115
SNP_P4_139844_147136	NW_004516064.1	Scaffold647	147136	AA	CC	1946969117
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SNP_P4_139848_162054	NW_004516064.1	Scaffold647	162054	AA	GG	1946969125
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SNP_P4_139860_200862	NW_004516064.1	Scaffold647	200862	AA	GG	1946969146
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SNP_P4_139865_201276	NW_004516064.1	Scaffold647	201276	TT	AA	1946969156
SNP_P4_139866_201328	NW_004516064.1	Scaffold647	201328	GG	AA	1946969158
SNP_P4_139867_201519	NW_004516064.1	Scaffold647	201519	AA	TT	1946969160
SNP_P4_139868_201663	NW_004516064.1	Scaffold647	201663	TT	CC	1946969162

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_139870_201762	NW_004516064.1	Scaffold647	201762	GG	AA	1946969166
SNP_P4_139871_201779	NW_004516064.1	Scaffold647	201779	TT	CC	1946969168
SNP_P4_139872_201781	NW_004516064.1	Scaffold647	201781	AA	GG	1946969170
SNP_P4_139873_201786	NW_004516064.1	Scaffold647	201786	GG	AA	1946969172
SNP_P4_139874_201789	NW_004516064.1	Scaffold647	201789	CC	TT	1946969174
SNP_P4_139875_201798	NW_004516064.1	Scaffold647	201798	GG	AA	1946969176
SNP_P4_139876_201850	NW_004516064.1	Scaffold647	201850	TT	GG	1946969178
SNP_P4_139877_212415	NW_004516064.1	Scaffold647	212415	TT	CC	1946969180
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SNP_P4_139879_212602	NW_004516064.1	Scaffold647	212602	TT	GG	1946969184
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SNP_P4_139881_212627	NW_004516064.1	Scaffold647	212627	TT	GG	1946969188
SNP_P4_139882_212699	NW_004516064.1	Scaffold647	212699	AA	GG	1946969190
SNP_P4_139883_212735	NW_004516064.1	Scaffold647	212735	TT	CC	1946969192
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SNP_P4_139888_212866	NW_004516064.1	Scaffold647	212866	CC	TT	1946969202
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SNP_P4_139896_1337	NW_004516065.1	Scaffold648	1337	TT	AA	1946969218
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SNP_P4_139899_1659	NW_004516065.1	Scaffold648	1659	AA	GG	1946969224
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SNP_P4_139903_25861	NW_004516065.1	Scaffold648	25861	GG	AA	1946969232
SNP_P4_139904_30363	NW_004516065.1	Scaffold648	30363	AA	CC	1946969234
SNP_P4_139905_2230	NW_004516067.1	Scaffold651	2230	TT	CC	1946969236
SNP_P4_139906_2412	NW_004516067.1	Scaffold651	2412	GG	AA	1946969238
SNP_P4_139907_2529	NW_004516067.1	Scaffold651	2529	TT	GG	1946969240
SNP_P4_139908_4972	NW_004516067.1	Scaffold651	4972	TT	AA	1946969242
SNP_P4_139909_4994	NW_004516067.1	Scaffold651	4994	GG	TT	1946969244
SNP_P4_139910_4998	NW_004516067.1	Scaffold651	4998	GG	TT	1946969246

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_139913_7595	NW_004516067.1	Scaffold651	7595	AA	CC	1946969252
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SNP_P4_139923_17012	NW_004516067.1	Scaffold651	17012	TT	GG	1946969272
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SNP_P4_139934_58942	NW_004516067.1	Scaffold651	58942	AA	GG	1946969292
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SNP_P4_139937_1634	NW_004516068.1	Scaffold652	1634	GG	AA	1946969296
SNP_P4_139938_9570	NW_004516069.1	Scaffold653	9570	TT	AA	1946969298
SNP_P4_139939_13352	NW_004516069.1	Scaffold653	13352	GG	CC	1946969300
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SNP_P4_139957_174045	NW_004516069.1	Scaffold653	174045	AA	GG	1946969328
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_139961_174384	NW_004516069.1	Scaffold653	174384	CC	AA	1946969336
SNP_P4_139962_174391	NW_004516069.1	Scaffold653	174391	GG	AA	1946969338
SNP_P4_139963_174819	NW_004516069.1	Scaffold653	174819	AA	GG	1946969340
SNP_P4_139964_174873	NW_004516069.1	Scaffold653	174873	GG	AA	1946969342
SNP_P4_139965_174875	NW_004516069.1	Scaffold653	174875	AA	GG	1946969344
SNP_P4_139966_175180	NW_004516069.1	Scaffold653	175180	GG	AA	1946969346
SNP_P4_139967_175373	NW_004516069.1	Scaffold653	175373	CC	TT	1946969348
SNP_P4_139968_175633	NW_004516069.1	Scaffold653	175633	CC	AA	1946969350
SNP_P4_139969_176368	NW_004516069.1	Scaffold653	176368	TT	GG	1946969352
SNP_P4_139970_177592	NW_004516069.1	Scaffold653	177592	GG	TT	1946969354
SNP_P4_139971_177832	NW_004516069.1	Scaffold653	177832	TT	CC	1946969356
SNP_P4_139972_178096	NW_004516069.1	Scaffold653	178096	CC	TT	1946969358
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SNP_P4_139974_178137	NW_004516069.1	Scaffold653	178137	CC	TT	1946969362
SNP_P4_139975_178430	NW_004516069.1	Scaffold653	178430	CC	TT	1946969364
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SNP_P4_139978_178841	NW_004516069.1	Scaffold653	178841	CC	TT	1946969370
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SNP_P4_139980_179258	NW_004516069.1	Scaffold653	179258	AA	CC	1946969374
SNP_P4_139981_179379	NW_004516069.1	Scaffold653	179379	TT	CC	1946969376
SNP_P4_139982_179512	NW_004516069.1	Scaffold653	179512	AA	GG	1946969378
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SNP_P4_139995_197133	NW_004516069.1	Scaffold653	197133	CC	AA	1946969404
SNP_P4_139996_200646	NW_004516069.1	Scaffold653	200646	CC	AA	1946969406
SNP_P4_139997_200649	NW_004516069.1	Scaffold653	200649	GG	TT	1946969408
SNP_P4_139998_200715	NW_004516069.1	Scaffold653	200715	GG	AA	1946969410
SNP_P4_139999_200728	NW_004516069.1	Scaffold653	200728	AA	GG	1946969412
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_140004_200821	NW_004516069.1	Scaffold653	200821	GG	AA	1946969420
SNP_P4_140005_200837	NW_004516069.1	Scaffold653	200837	AA	GG	1946969422
SNP_P4_140006_200859	NW_004516069.1	Scaffold653	200859	CC	TT	1946969424
SNP_P4_140007_200882	NW_004516069.1	Scaffold653	200882	AA	GG	1946969426
SNP_P4_140008_200892	NW_004516069.1	Scaffold653	200892	AA	TT	1946969428
SNP_P4_140009_200896	NW_004516069.1	Scaffold653	200896	AA	GG	1946969430
SNP_P4_140010_200984	NW_004516069.1	Scaffold653	200984	TT	AA	1946969432
SNP_P4_140011_201044	NW_004516069.1	Scaffold653	201044	AA	CC	1946969434
SNP_P4_140012_201064	NW_004516069.1	Scaffold653	201064	CC	TT	1946969436
SNP_P4_140013_201104	NW_004516069.1	Scaffold653	201104	GG	TT	1946969438
SNP_P4_140014_201152	NW_004516069.1	Scaffold653	201152	CC	TT	1946969440
SNP_P4_140015_202731	NW_004516069.1	Scaffold653	202731	GG	AA	1946969442
SNP_P4_140016_908	NW_004516070.1	Scaffold654	908	AA	GG	1946969443
SNP_P4_140017_1028	NW_004516070.1	Scaffold654	1028	AA	CC	1946969445
SNP_P4_140018_1280	NW_004516070.1	Scaffold654	1280	AA	TT	1946969447
SNP_P4_140019_1321	NW_004516070.1	Scaffold654	1321	TT	AA	1946969449
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SNP_P4_140024_11602	NW_004516070.1	Scaffold654	11602	CC	TT	1946969457
SNP_P4_140025_11619	NW_004516070.1	Scaffold654	11619	AA	CC	1946969459
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SNP_P4_140029_28291	NW_004516070.1	Scaffold654	28291	AA	TT	1946969467
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SNP_P4_140034_14811	NW_004516075.1	Scaffold661	14811	TT	CC	1946969475
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SNP_P4_140039_25568	NW_004516075.1	Scaffold661	25568	CC	TT	1946969483
SNP_P4_140040_26611	NW_004516075.1	Scaffold661	26611	GG	AA	1946969485
SNP_P4_140041_29950	NW_004516075.1	Scaffold661	29950	AA	GG	1946969487
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SNP_P4_140043_52218	NW_004516075.1	Scaffold661	52218	AA	CC	1946969491
SNP_P4_140044_84708	NW_004516075.1	Scaffold661	84708	AA	GG	1946969493
SNP_P4_140045_85102	NW_004516075.1	Scaffold661	85102	TT	GG	1946969495
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_140050_132156	NW_004516075.1	Scaffold661	132156	AA	GG	1946969505
SNP_P4_140051_133093	NW_004516075.1	Scaffold661	133093	AA	GG	1946969507
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SNP_P4_140058_157574	NW_004516075.1	Scaffold661	157574	TT	GG	1946969521
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SNP_P4_140087_272172	NW_004516075.1	Scaffold661	272172	CC	TT	1946969577
SNP_P4_140088_272173	NW_004516075.1	Scaffold661	272173	CC	TT	1946969579
SNP_P4_140089_272443	NW_004516075.1	Scaffold661	272443	TT	CC	1946969581

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_140093_277436	NW_004516075.1	Scaffold661	277436	CC	TT	1946969589
SNP_P4_140094_277465	NW_004516075.1	Scaffold661	277465	TT	CC	1946969591
SNP_P4_140095_281744	NW_004516075.1	Scaffold661	281744	AA	TT	1946969593
SNP_P4_140096_283449	NW_004516075.1	Scaffold661	283449	AA	TT	1946969595
SNP_P4_140097_287161	NW_004516075.1	Scaffold661	287161	GG	AA	1946969597
SNP_P4_140098_292787	NW_004516075.1	Scaffold661	292787	CC	AA	1946969599
SNP_P4_140100_293104	NW_004516075.1	Scaffold661	293104	AA	GG	1946969601
SNP_P4_140101_293107	NW_004516075.1	Scaffold661	293107	AA	GG	1946969603
SNP_P4_140102_305791	NW_004516075.1	Scaffold661	305791	CC	AA	1946969605
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SNP_P4_140104_339176	NW_004516075.1	Scaffold661	339176	CC	GG	1946969609
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SNP_P4_140107_340644	NW_004516075.1	Scaffold661	340644	AA	GG	1946969615
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SNP_P4_140130_480745	NW_004516075.1	Scaffold661	480745	TT	CC	1946969659
SNP_P4_140131_480768	NW_004516075.1	Scaffold661	480768	CC	AA	1946969661
SNP_P4_140132_480809	NW_004516075.1	Scaffold661	480809	AA	CC	1946969663
SNP_P4_140133_480816	NW_004516075.1	Scaffold661	480816	TT	CC	1946969665

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_140134_480837	NW_004516075.1	Scaffold661	480837	GG	AA	1946969667
SNP_P4_140135_480842	NW_004516075.1	Scaffold661	480842	AA	GG	1946969669
SNP_P4_140136_480846	NW_004516075.1	Scaffold661	480846	TT	CC	1946969671
SNP_P4_140137_480875	NW_004516075.1	Scaffold661	480875	AA	GG	1946969673
SNP_P4_140138_480892	NW_004516075.1	Scaffold661	480892	TT	AA	1946969675
SNP_P4_140139_480909	NW_004516075.1	Scaffold661	480909	TT	CC	1946969677
SNP_P4_140140_481818	NW_004516075.1	Scaffold661	481818	AA	GG	1946969679
SNP_P4_140141_481907	NW_004516075.1	Scaffold661	481907	AA	TT	1946969681
SNP_P4_140142_481908	NW_004516075.1	Scaffold661	481908	TT	GG	1946969683
SNP_P4_140143_482203	NW_004516075.1	Scaffold661	482203	TT	CC	1946969685
SNP_P4_140144_482213	NW_004516075.1	Scaffold661	482213	CC	TT	1946969687
SNP_P4_140145_482255	NW_004516075.1	Scaffold661	482255	TT	CC	1946969689
SNP_P4_140146_526067	NW_004516075.1	Scaffold661	526067	CC	AA	1946969691
SNP_P4_140147_542063	NW_004516075.1	Scaffold661	542063	CC	TT	1946969693
SNP_P4_140148_542744	NW_004516075.1	Scaffold661	542744	AA	TT	1946969695
SNP_P4_140149_561612	NW_004516075.1	Scaffold661	561612	AA	TT	1946969697
SNP_P4_140150_608681	NW_004516075.1	Scaffold661	608681	GG	AA	1946969699
SNP_P4_140151_621015	NW_004516075.1	Scaffold661	621015	TT	CC	1946969701
SNP_P4_140152_666624	NW_004516075.1	Scaffold661	666624	AA	GG	1946969703
SNP_P4_140153_666850	NW_004516075.1	Scaffold661	666850	AA	CC	1946969705
SNP_P4_140154_671757	NW_004516075.1	Scaffold661	671757	AA	GG	1946969707
SNP_P4_140155_671780	NW_004516075.1	Scaffold661	671780	CC	TT	1946969709
SNP_P4_140156_671783	NW_004516075.1	Scaffold661	671783	AA	GG	1946969711
SNP_P4_140157_671798	NW_004516075.1	Scaffold661	671798	TT	CC	1946969713
SNP_P4_140158_671801	NW_004516075.1	Scaffold661	671801	AA	GG	1946969715
SNP_P4_140159_671837	NW_004516075.1	Scaffold661	671837	CC	GG	1946969717
SNP_P4_140160_671869	NW_004516075.1	Scaffold661	671869	AA	GG	1946969719
SNP_P4_140161_672063	NW_004516075.1	Scaffold661	672063	TT	CC	1946969721
SNP_P4_140163_707856	NW_004516075.1	Scaffold661	707856	AA	GG	1946969723
SNP_P4_140164_707975	NW_004516075.1	Scaffold661	707975	AA	TT	1946969725
SNP_P4_140165_707996	NW_004516075.1	Scaffold661	707996	AA	GG	1946969727
SNP_P4_140166_708015	NW_004516075.1	Scaffold661	708015	AA	GG	1946969729
SNP_P4_140167_710871	NW_004516075.1	Scaffold661	710871	AA	GG	1946969731
SNP_P4_140168_718239	NW_004516075.1	Scaffold661	718239	CC	TT	1946969733
SNP_P4_140169_718364	NW_004516075.1	Scaffold661	718364	GG	AA	1946969735
SNP_P4_140170_725026	NW_004516075.1	Scaffold661	725026	TT	GG	1946969737
SNP_P4_140171_726484	NW_004516075.1	Scaffold661	726484	GG	CC	1946969739
SNP_P4_140172_727191	NW_004516075.1	Scaffold661	727191	GG	TT	1946969741
SNP_P4_140173_727225	NW_004516075.1	Scaffold661	727225	CC	GG	1946969743
SNP_P4_140174_727526	NW_004516075.1	Scaffold661	727526	GG	CC	1946969745
SNP_P4_140175_727568	NW_004516075.1	Scaffold661	727568	CC	TT	1946969747
SNP_P4_140176_1157	NW_004516076.1	Scaffold662	1157	TT	GG	1946969749

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_140177_16640	NW_004516076.1	Scaffold662	16640	CC	AA	1946969751
SNP_P4_140178_18247	NW_004516076.1	Scaffold662	18247	AA	TT	1946969752
SNP_P4_140179_18625	NW_004516076.1	Scaffold662	18625	TT	CC	1946969753
SNP_P4_140180_18627	NW_004516076.1	Scaffold662	18627	CC	TT	1946969754
SNP_P4_140181_18628	NW_004516076.1	Scaffold662	18628	GG	AA	1946969755
SNP_P4_140182_22743	NW_004516076.1	Scaffold662	22743	CC	GG	1946969758
SNP_P4_140183_22750	NW_004516076.1	Scaffold662	22750	AA	TT	1946969760
SNP_P4_140184_24905	NW_004516076.1	Scaffold662	24905	AA	CC	1946969762
SNP_P4_140185_32315	NW_004516076.1	Scaffold662	32315	GG	AA	1946969764
SNP_P4_140187_43780	NW_004516076.1	Scaffold662	43780	CC	TT	1946969766
SNP_P4_140189_56077	NW_004516076.1	Scaffold662	56077	CC	AA	1946969768
SNP_P4_140190_56079	NW_004516076.1	Scaffold662	56079	CC	TT	1946969770
SNP_P4_140191_56090	NW_004516076.1	Scaffold662	56090	GG	AA	1946969772
SNP_P4_140192_72933	NW_004516076.1	Scaffold662	72933	CC	GG	1946969774
SNP_P4_140193_89418	NW_004516076.1	Scaffold662	89418	TT	AA	1946969776
SNP_P4_140194_94619	NW_004516076.1	Scaffold662	94619	TT	AA	1946969778
SNP_P4_140195_98556	NW_004516076.1	Scaffold662	98556	AA	TT	1946969780
SNP_P4_140196_98583	NW_004516076.1	Scaffold662	98583	GG	TT	1946969782
SNP_P4_140197_98660	NW_004516076.1	Scaffold662	98660	TT	CC	1946969784
SNP_P4_140198_108135	NW_004516076.1	Scaffold662	108135	CC	TT	1946969786
SNP_P4_140199_110588	NW_004516076.1	Scaffold662	110588	GG	AA	1946969788
SNP_P4_140200_110616	NW_004516076.1	Scaffold662	110616	CC	TT	1946969790
SNP_P4_140201_144392	NW_004516076.1	Scaffold662	144392	CC	TT	1946969792
SNP_P4_140202_147647	NW_004516076.1	Scaffold662	147647	AA	TT	1946969794
SNP_P4_140203_147661	NW_004516076.1	Scaffold662	147661	GG	TT	1946969796
SNP_P4_140204_147975	NW_004516076.1	Scaffold662	147975	AA	GG	1946969798
SNP_P4_140205_155161	NW_004516076.1	Scaffold662	155161	TT	GG	1946969800
SNP_P4_140206_9304	NW_004516077.1	Scaffold663	9304	GG	AA	1946969802
SNP_P4_140207_22897	NW_004516077.1	Scaffold663	22897	CC	AA	1946969804
SNP_P4_140208_23167	NW_004516077.1	Scaffold663	23167	AA	GG	1946969806
SNP_P4_140209_23178	NW_004516077.1	Scaffold663	23178	AA	GG	1946969808
SNP_P4_140210_23212	NW_004516077.1	Scaffold663	23212	AA	GG	1946969810
SNP_P4_140211_23414	NW_004516077.1	Scaffold663	23414	TT	GG	1946969812
SNP_P4_140212_23482	NW_004516077.1	Scaffold663	23482	GG	TT	1946969814
SNP_P4_140213_23573	NW_004516077.1	Scaffold663	23573	AA	GG	1946969816
SNP_P4_140214_23611	NW_004516077.1	Scaffold663	23611	TT	CC	1946969818
SNP_P4_140215_49253	NW_004516077.1	Scaffold663	49253	AA	GG	1946969820
SNP_P4_140216_55313	NW_004516077.1	Scaffold663	55313	AA	TT	1946969822
SNP_P4_140217_55490	NW_004516077.1	Scaffold663	55490	GG	AA	1946969824
SNP_P4_140218_63437	NW_004516077.1	Scaffold663	63437	AA	GG	1946969826
SNP_P4_140219_63471	NW_004516077.1	Scaffold663	63471	AA	CC	1946969828
SNP_P4_140220_63480	NW_004516077.1	Scaffold663	63480	AA	GG	1946969830

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_140222_63658	NW_004516077.1	Scaffold663	63658	CC	TT	1946969834
SNP_P4_140223_63764	NW_004516077.1	Scaffold663	63764	GG	TT	1946969836
SNP_P4_140224_63855	NW_004516077.1	Scaffold663	63855	AA	GG	1946969838
SNP_P4_140225_63901	NW_004516077.1	Scaffold663	63901	GG	TT	1946969840
SNP_P4_140226_64004	NW_004516077.1	Scaffold663	64004	GG	TT	1946969842
SNP_P4_140227_67482	NW_004516077.1	Scaffold663	67482	AA	GG	1946969844
SNP_P4_140228_96004	NW_004516077.1	Scaffold663	96004	CC	TT	1946969846
SNP_P4_140229_102986	NW_004516077.1	Scaffold663	102986	AA	TT	1946969848
SNP_P4_140230_103058	NW_004516077.1	Scaffold663	103058	GG	TT	1946969850
SNP_P4_140231_103725	NW_004516077.1	Scaffold663	103725	GG	AA	1946969852
SNP_P4_140232_103781	NW_004516077.1	Scaffold663	103781	AA	TT	1946969854
SNP_P4_140233_107055	NW_004516077.1	Scaffold663	107055	AA	GG	1946969856
SNP_P4_140234_107057	NW_004516077.1	Scaffold663	107057	AA	GG	1946969858
SNP_P4_140235_108293	NW_004516077.1	Scaffold663	108293	TT	CC	1946969860
SNP_P4_140236_108294	NW_004516077.1	Scaffold663	108294	GG	AA	1946969862
SNP_P4_140237_108991	NW_004516077.1	Scaffold663	108991	AA	CC	1946969864
SNP_P4_140238_108997	NW_004516077.1	Scaffold663	108997	CC	TT	1946969866
SNP_P4_140239_109018	NW_004516077.1	Scaffold663	109018	TT	GG	1946969868
SNP_P4_140240_109021	NW_004516077.1	Scaffold663	109021	GG	AA	1946969870
SNP_P4_140241_109022	NW_004516077.1	Scaffold663	109022	CC	TT	1946969872
SNP_P4_140242_109023	NW_004516077.1	Scaffold663	109023	GG	CC	1946969873
SNP_P4_140243_109027	NW_004516077.1	Scaffold663	109027	TT	CC	1946969874
SNP_P4_140244_109036	NW_004516077.1	Scaffold663	109036	GG	AA	1946969876
SNP_P4_140245_109129	NW_004516077.1	Scaffold663	109129	TT	GG	1946969878
SNP_P4_140246_109156	NW_004516077.1	Scaffold663	109156	GG	AA	1946969880
SNP_P4_140247_109158	NW_004516077.1	Scaffold663	109158	TT	CC	1946969882
SNP_P4_140248_109162	NW_004516077.1	Scaffold663	109162	GG	AA	1946969884
SNP_P4_140249_109171	NW_004516077.1	Scaffold663	109171	CC	GG	1946969886
SNP_P4_140250_109174	NW_004516077.1	Scaffold663	109174	AA	CC	1946969888
SNP_P4_140251_109182	NW_004516077.1	Scaffold663	109182	AA	GG	1946969890
SNP_P4_140252_109189	NW_004516077.1	Scaffold663	109189	TT	GG	1946969892
SNP_P4_140253_109192	NW_004516077.1	Scaffold663	109192	TT	CC	1946969894
SNP_P4_140254_109198	NW_004516077.1	Scaffold663	109198	CC	TT	1946969896
SNP_P4_140255_109207	NW_004516077.1	Scaffold663	109207	GG	AA	1946969898
SNP_P4_140256_109247	NW_004516077.1	Scaffold663	109247	TT	AA	1946969900
SNP_P4_140257_109271	NW_004516077.1	Scaffold663	109271	GG	AA	1946969902
SNP_P4_140258_109283	NW_004516077.1	Scaffold663	109283	GG	AA	1946969904
SNP_P4_140259_123257	NW_004516077.1	Scaffold663	123257	CC	AA	1946969906
SNP_P4_140260_166938	NW_004516077.1	Scaffold663	166938	CC	TT	1946969908
SNP_P4_140261_167137	NW_004516077.1	Scaffold663	167137	AA	GG	1946969910
SNP_P4_140262_167176	NW_004516077.1	Scaffold663	167176	AA	TT	1946969912

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_140264_442	NW_004516079.1	Scaffold665	442	AA	GG	1946969916
SNP_P4_140265_711	NW_004516079.1	Scaffold665	711	AA	CC	1946969918
SNP_P4_140266_793	NW_004516079.1	Scaffold665	793	CC	GG	1946969920
SNP_P4_140267_2938	NW_004516079.1	Scaffold665	2938	CC	TT	1946969922
SNP_P4_140268_3317	NW_004516079.1	Scaffold665	3317	CC	TT	1946969924
SNP_P4_140269_3448	NW_004516079.1	Scaffold665	3448	TT	CC	1946969926
SNP_P4_140270_12922	NW_004516079.1	Scaffold665	12922	TT	AA	1946969928
SNP_P4_140271_16083	NW_004516079.1	Scaffold665	16083	AA	TT	1946969930
SNP_P4_140272_16100	NW_004516079.1	Scaffold665	16100	AA	TT	1946969932
SNP_P4_140273_16187	NW_004516079.1	Scaffold665	16187	GG	AA	1946969934
SNP_P4_140275_16548	NW_004516079.1	Scaffold665	16548	CC	TT	1946969936
SNP_P4_140276_16750	NW_004516079.1	Scaffold665	16750	AA	CC	1946969938
SNP_P4_140277_17026	NW_004516079.1	Scaffold665	17026	AA	GG	1946969940
SNP_P4_140278_17049	NW_004516079.1	Scaffold665	17049	AA	TT	1946969942
SNP_P4_140279_17312	NW_004516079.1	Scaffold665	17312	AA	GG	1946969944
SNP_P4_140280_17603	NW_004516079.1	Scaffold665	17603	GG	AA	1946969946
SNP_P4_140281_17724	NW_004516079.1	Scaffold665	17724	GG	AA	1946969948
SNP_P4_140282_11276	NW_004516080.1	Scaffold666	11276	GG	CC	1946969950
SNP_P4_140283_2369	NW_004516081.1	Scaffold667	2369	AA	TT	1946969952
SNP_P4_140284_2496	NW_004516081.1	Scaffold667	2496	CC	TT	1946969954
SNP_P4_140285_2509	NW_004516081.1	Scaffold667	2509	GG	AA	1946969956
SNP_P4_140286_2514	NW_004516081.1	Scaffold667	2514	TT	CC	1946969958
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SNP_P4_140288_64	NW_004516082.1	Scaffold668	64	TT	GG	1946969962
SNP_P4_140289_65	NW_004516082.1	Scaffold668	65	AA	TT	1946969964
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SNP_P4_140291_538	NW_004516082.1	Scaffold668	538	AA	CC	1946969968
SNP_P4_140292_602	NW_004516082.1	Scaffold668	602	GG	AA	1946969970
SNP_P4_140293_1540	NW_004516083.1	Scaffold669	1540	AA	GG	1946969972
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SNP_P4_140295_5369	NW_004516084.1	Scaffold670	5369	TT	CC	1946969976
SNP_P4_140296_10301	NW_004516084.1	Scaffold670	10301	AA	TT	1946969978
SNP_P4_140297_17462	NW_004516084.1	Scaffold670	17462	TT	AA	1946969980
SNP_P4_140298_17483	NW_004516084.1	Scaffold670	17483	CC	TT	1946969982
SNP_P4_140299_17501	NW_004516084.1	Scaffold670	17501	TT	AA	1946969984
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SNP_P4_140301_17772	NW_004516084.1	Scaffold670	17772	TT	CC	1946969988
SNP_P4_140302_17797	NW_004516084.1	Scaffold670	17797	CC	AA	1946969990
SNP_P4_140303_18138	NW_004516084.1	Scaffold670	18138	CC	TT	1946969992
SNP_P4_140304_21334	NW_004516084.1	Scaffold670	21334	TT	CC	1946969994
SNP_P4_140305_21715	NW_004516084.1	Scaffold670	21715	GG	AA	1946969996

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_140307_27965	NW_004516084.1	Scaffold670	27965	CC	TT	1946970000
SNP_P4_140308_28012	NW_004516084.1	Scaffold670	28012	CC	TT	1946970002
SNP_P4_140309_43599	NW_004516084.1	Scaffold670	43599	TT	CC	1946970004
SNP_P4_140310_52410	NW_004516084.1	Scaffold670	52410	TT	AA	1946970006
SNP_P4_140311_62887	NW_004516084.1	Scaffold670	62887	GG	TT	1946970008
SNP_P4_140312_70602	NW_004516084.1	Scaffold670	70602	TT	AA	1946970010
SNP_P4_140313_78505	NW_004516084.1	Scaffold670	78505	CC	GG	1946970012
SNP_P4_140314_78528	NW_004516084.1	Scaffold670	78528	TT	CC	1946970014
SNP_P4_140315_78543	NW_004516084.1	Scaffold670	78543	AA	GG	1946970016
SNP_P4_140316_103744	NW_004516084.1	Scaffold670	103744	GG	TT	1946970018
SNP_P4_140317_104132	NW_004516084.1	Scaffold670	104132	AA	TT	1946970020
SNP_P4_140318_106861	NW_004516084.1	Scaffold670	106861	AA	TT	1946970022
SNP_P4_140319_107005	NW_004516084.1	Scaffold670	107005	GG	AA	1946970024
SNP_P4_140320_108729	NW_004516084.1	Scaffold670	108729	TT	CC	1946970026
SNP_P4_140321_116278	NW_004516084.1	Scaffold670	116278	CC	TT	1946970028
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SNP_P4_140326_127907	NW_004516084.1	Scaffold670	127907	AA	GG	1946970038
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SNP_P4_140340_153839	NW_004516084.1	Scaffold670	153839	AA	TT	1946970062
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SNP_P4_140342_154371	NW_004516084.1	Scaffold670	154371	CC	TT	1946970066
SNP_P4_140343_154392	NW_004516084.1	Scaffold670	154392	TT	CC	1946970068
SNP_P4_140344_156607	NW_004516084.1	Scaffold670	156607	CC	TT	1946970070
SNP_P4_140345_156676	NW_004516084.1	Scaffold670	156676	CC	TT	1946970072
SNP_P4_140347_158928	NW_004516084.1	Scaffold670	158928	CC	TT	1946970074
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SNP_P4_140349_163423	NW_004516084.1	Scaffold670	163423	CC	TT	1946970078
SNP_P4_140350_163503	NW_004516084.1	Scaffold670	163503	AA	GG	1946970080

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_140352_163547	NW_004516084.1	Scaffold670	163547	GG	AA	1946970084
SNP_P4_140353_163569	NW_004516084.1	Scaffold670	163569	TT	GG	1946970085
SNP_P4_140354_163727	NW_004516084.1	Scaffold670	163727	TT	AA	1946970087
SNP_P4_140355_163793	NW_004516084.1	Scaffold670	163793	AA	GG	1946970089
SNP_P4_140356_163841	NW_004516084.1	Scaffold670	163841	GG	AA	1946970091
SNP_P4_140357_163902	NW_004516084.1	Scaffold670	163902	GG	TT	1946970093
SNP_P4_140358_164441	NW_004516084.1	Scaffold670	164441	GG	AA	1946970095
SNP_P4_140359_164659	NW_004516084.1	Scaffold670	164659	TT	GG	1946970097
SNP_P4_140360_164686	NW_004516084.1	Scaffold670	164686	TT	CC	1946970099
SNP_P4_140361_186056	NW_004516084.1	Scaffold670	186056	AA	TT	1946970101
SNP_P4_140362_186101	NW_004516084.1	Scaffold670	186101	TT	AA	1946970103
SNP_P4_140363_186131	NW_004516084.1	Scaffold670	186131	AA	TT	1946970105
SNP_P4_140364_186373	NW_004516084.1	Scaffold670	186373	CC	TT	1946970107
SNP_P4_140365_186879	NW_004516084.1	Scaffold670	186879	TT	GG	1946970109
SNP_P4_140366_186903	NW_004516084.1	Scaffold670	186903	GG	AA	1946970111
SNP_P4_140367_187103	NW_004516084.1	Scaffold670	187103	TT	CC	1946970113
SNP_P4_140368_187309	NW_004516084.1	Scaffold670	187309	TT	CC	1946970115
SNP_P4_140369_190147	NW_004516084.1	Scaffold670	190147	CC	TT	1946970117
SNP_P4_140370_190512	NW_004516084.1	Scaffold670	190512	AA	GG	1946970119
SNP_P4_140371_194642	NW_004516084.1	Scaffold670	194642	TT	AA	1946970121
SNP_P4_140372_194947	NW_004516084.1	Scaffold670	194947	AA	GG	1946970123
SNP_P4_140373_194953	NW_004516084.1	Scaffold670	194953	AA	GG	1946970125
SNP_P4_140374_194954	NW_004516084.1	Scaffold670	194954	AA	GG	1946970127
SNP_P4_140375_194997	NW_004516084.1	Scaffold670	194997	TT	GG	1946970129
SNP_P4_140376_195007	NW_004516084.1	Scaffold670	195007	AA	TT	1946970131
SNP_P4_140377_197738	NW_004516084.1	Scaffold670	197738	GG	AA	1946970133
SNP_P4_140378_197943	NW_004516084.1	Scaffold670	197943	TT	CC	1946970135
SNP_P4_140380_198151	NW_004516084.1	Scaffold670	198151	TT	CC	1946970137
SNP_P4_140381_200967	NW_004516084.1	Scaffold670	200967	AA	GG	1946970138
SNP_P4_140382_201204	NW_004516084.1	Scaffold670	201204	TT	CC	1946970139
SNP_P4_140383_201295	NW_004516084.1	Scaffold670	201295	TT	CC	1946970141
SNP_P4_140384_201318	NW_004516084.1	Scaffold670	201318	AA	CC	1946970143
SNP_P4_140385_202373	NW_004516084.1	Scaffold670	202373	TT	AA	1946970145
SNP_P4_140386_202390	NW_004516084.1	Scaffold670	202390	AA	TT	1946970147
SNP_P4_140387_202401	NW_004516084.1	Scaffold670	202401	AA	CC	1946970149
SNP_P4_140388_219436	NW_004516084.1	Scaffold670	219436	AA	CC	1946970151
SNP_P4_140389_224016	NW_004516084.1	Scaffold670	224016	TT	GG	1946970153
SNP_P4_140390_227657	NW_004516084.1	Scaffold670	227657	TT	AA	1946970155
SNP_P4_140392_227938	NW_004516084.1	Scaffold670	227938	AA	CC	1946970157
SNP_P4_140393_227981	NW_004516084.1	Scaffold670	227981	TT	AA	1946970159
SNP_P4_140394_230694	NW_004516084.1	Scaffold670	230694	TT	GG	1946970161

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_140396_231049	NW_004516084.1	Scaffold670	231049	TT	AA	1946970165
SNP_P4_140397_231053	NW_004516084.1	Scaffold670	231053	AA	GG	1946970167
SNP_P4_140398_232391	NW_004516084.1	Scaffold670	232391	AA	CC	1946970169
SNP_P4_140399_232599	NW_004516084.1	Scaffold670	232599	TT	CC	1946970171
SNP_P4_140400_263386	NW_004516084.1	Scaffold670	263386	TT	CC	1946970173
SNP_P4_140401_263400	NW_004516084.1	Scaffold670	263400	AA	TT	1946970175
SNP_P4_140402_263416	NW_004516084.1	Scaffold670	263416	CC	GG	1946970177
SNP_P4_140403_264003	NW_004516084.1	Scaffold670	264003	AA	GG	1946970179
SNP_P4_140404_264026	NW_004516084.1	Scaffold670	264026	GG	AA	1946970181
SNP_P4_140405_264037	NW_004516084.1	Scaffold670	264037	CC	TT	1946970183
SNP_P4_140406_264041	NW_004516084.1	Scaffold670	264041	TT	AA	1946970185
SNP_P4_140407_264269	NW_004516084.1	Scaffold670	264269	AA	GG	1946970187
SNP_P4_140408_23943	NW_004516085.1	Scaffold672	23943	AA	TT	1946970189
SNP_P4_140409_83629	NW_004516085.1	Scaffold672	83629	AA	GG	1946970191
SNP_P4_140410_93247	NW_004516085.1	Scaffold672	93247	AA	GG	1946970193
SNP_P4_140411_93299	NW_004516085.1	Scaffold672	93299	TT	CC	1946970195
SNP_P4_140412_93310	NW_004516085.1	Scaffold672	93310	AA	CC	1946970197
SNP_P4_140413_93659	NW_004516085.1	Scaffold672	93659	TT	AA	1946970199
SNP_P4_140414_93686	NW_004516085.1	Scaffold672	93686	AA	GG	1946970201
SNP_P4_140415_93882	NW_004516085.1	Scaffold672	93882	CC	GG	1946970203
SNP_P4_140416_95295	NW_004516085.1	Scaffold672	95295	GG	AA	1946970205
SNP_P4_140417_95315	NW_004516085.1	Scaffold672	95315	TT	CC	1946970207
SNP_P4_140418_101807	NW_004516085.1	Scaffold672	101807	TT	CC	1946970209
SNP_P4_140419_101942	NW_004516085.1	Scaffold672	101942	AA	CC	1946970211
SNP_P4_140420_102003	NW_004516085.1	Scaffold672	102003	GG	AA	1946970213
SNP_P4_140421_102137	NW_004516085.1	Scaffold672	102137	TT	CC	1946970215
SNP_P4_140422_102403	NW_004516085.1	Scaffold672	102403	GG	TT	1946970217
SNP_P4_140423_102446	NW_004516085.1	Scaffold672	102446	TT	CC	1946970219
SNP_P4_140424_102798	NW_004516085.1	Scaffold672	102798	AA	GG	1946970221
SNP_P4_140425_104213	NW_004516085.1	Scaffold672	104213	AA	CC	1946970223
SNP_P4_140426_104254	NW_004516085.1	Scaffold672	104254	AA	GG	1946970225
SNP_P4_140427_104264	NW_004516085.1	Scaffold672	104264	CC	TT	1946970227
SNP_P4_140428_111405	NW_004516085.1	Scaffold672	111405	AA	GG	1946970229
SNP_P4_140429_111429	NW_004516085.1	Scaffold672	111429	CC	TT	1946970231
SNP_P4_140430_128275	NW_004516085.1	Scaffold672	128275	TT	GG	1946970233
SNP_P4_140431_161674	NW_004516085.1	Scaffold672	161674	TT	GG	1946970235
SNP_P4_140432_182353	NW_004516085.1	Scaffold672	182353	AA	TT	1946970237
SNP_P4_140433_182554	NW_004516085.1	Scaffold672	182554	GG	TT	1946970239
SNP_P4_140434_182981	NW_004516085.1	Scaffold672	182981	AA	GG	1946970241
SNP_P4_140435_183265	NW_004516085.1	Scaffold672	183265	AA	GG	1946970243
SNP_P4_140436_183279	NW_004516085.1	Scaffold672	183279	TT	GG	1946970245

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_140438_192085	NW_004516085.1	Scaffold672	192085	AA	GG	1946970249
SNP_P4_140439_193862	NW_004516085.1	Scaffold672	193862	AA	CC	1946970251
SNP_P4_140440_202619	NW_004516085.1	Scaffold672	202619	AA	TT	1946970253
SNP_P4_140441_205249	NW_004516085.1	Scaffold672	205249	CC	TT	1946970255
SNP_P4_140442_205255	NW_004516085.1	Scaffold672	205255	GG	TT	1946970257
SNP_P4_140443_206686	NW_004516085.1	Scaffold672	206686	AA	TT	1946970259
SNP_P4_140444_206701	NW_004516085.1	Scaffold672	206701	TT	CC	1946970261
SNP_P4_140445_206708	NW_004516085.1	Scaffold672	206708	AA	GG	1946970263
SNP_P4_140447_207041	NW_004516085.1	Scaffold672	207041	CC	GG	1946970264
SNP_P4_140448_207059	NW_004516085.1	Scaffold672	207059	TT	AA	1946970266
SNP_P4_140449_215815	NW_004516085.1	Scaffold672	215815	AA	GG	1946970268
SNP_P4_140450_217281	NW_004516085.1	Scaffold672	217281	TT	AA	1946970270
SNP_P4_140451_218666	NW_004516085.1	Scaffold672	218666	AA	GG	1946970272
SNP_P4_140452_219026	NW_004516085.1	Scaffold672	219026	AA	CC	1946970274
SNP_P4_140453_223358	NW_004516085.1	Scaffold672	223358	GG	AA	1946970276
SNP_P4_140454_232325	NW_004516085.1	Scaffold672	232325	AA	CC	1946970278
SNP_P4_140455_232955	NW_004516085.1	Scaffold672	232955	GG	AA	1946970280
SNP_P4_140456_233013	NW_004516085.1	Scaffold672	233013	GG	AA	1946970282
SNP_P4_140457_233188	NW_004516085.1	Scaffold672	233188	AA	GG	1946970284
SNP_P4_140458_4734	NW_004516086.1	Scaffold673	4734	AA	TT	1946970285
SNP_P4_140459_10554	NW_004516086.1	Scaffold673	10554	CC	TT	1946970287
SNP_P4_140461_14752	NW_004516086.1	Scaffold673	14752	TT	GG	1946970289
SNP_P4_140462_17686	NW_004516086.1	Scaffold673	17686	AA	TT	1946970291
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SNP_P4_140464_6773	NW_004516087.1	Scaffold674	6773	TT	AA	1946970295
SNP_P4_140465_7316	NW_004516087.1	Scaffold674	7316	AA	TT	1946970297
SNP_P4_140467_13077	NW_004516087.1	Scaffold674	13077	CC	TT	1946970299
SNP_P4_140468_13079	NW_004516087.1	Scaffold674	13079	TT	AA	1946970301
SNP_P4_140470_16620	NW_004516087.1	Scaffold674	16620	AA	CC	1946970303
SNP_P4_140471_17037	NW_004516087.1	Scaffold674	17037	AA	GG	1946970305
SNP_P4_140472_18545	NW_004516087.1	Scaffold674	18545	TT	CC	1946970307
SNP_P4_140474_18553	NW_004516087.1	Scaffold674	18553	TT	CC	1946970309
SNP_P4_140475_18557	NW_004516087.1	Scaffold674	18557	AA	GG	1946970311
SNP_P4_140476_18566	NW_004516087.1	Scaffold674	18566	AA	GG	1946970313
SNP_P4_140477_18569	NW_004516087.1	Scaffold674	18569	TT	GG	1946970315
SNP_P4_140478_18578	NW_004516087.1	Scaffold674	18578	TT	CC	1946970317
SNP_P4_140479_18603	NW_004516087.1	Scaffold674	18603	GG	AA	1946970319
SNP_P4_140480_18611	NW_004516087.1	Scaffold674	18611	CC	TT	1946970321
SNP_P4_140481_18614	NW_004516087.1	Scaffold674	18614	AA	TT	1946970323
SNP_P4_140482_18626	NW_004516087.1	Scaffold674	18626	AA	GG	1946970325
SNP_P4_140483_18631	NW_004516087.1	Scaffold674	18631	AA	GG	1946970327

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_140485_18654	NW_004516087.1	Scaffold674	18654	TT	CC	1946970331
SNP_P4_140486_18659	NW_004516087.1	Scaffold674	18659	AA	GG	1946970333
SNP_P4_140487_18686	NW_004516087.1	Scaffold674	18686	AA	GG	1946970335
SNP_P4_140488_18695	NW_004516087.1	Scaffold674	18695	AA	GG	1946970337
SNP_P4_140489_18703	NW_004516087.1	Scaffold674	18703	TT	CC	1946970339
SNP_P4_140490_18707	NW_004516087.1	Scaffold674	18707	TT	CC	1946970341
SNP_P4_140491_18713	NW_004516087.1	Scaffold674	18713	AA	GG	1946970343
SNP_P4_140492_19300	NW_004516087.1	Scaffold674	19300	CC	TT	1946970346
SNP_P4_140493_26883	NW_004516087.1	Scaffold674	26883	CC	GG	1946970348
SNP_P4_140494_26889	NW_004516087.1	Scaffold674	26889	GG	TT	1946970350
SNP_P4_140495_31283	NW_004516087.1	Scaffold674	31283	GG	AA	1946970352
SNP_P4_140496_31343	NW_004516087.1	Scaffold674	31343	AA	CC	1946970354
SNP_P4_140497_31657	NW_004516087.1	Scaffold674	31657	GG	AA	1946970356
SNP_P4_140498_31995	NW_004516087.1	Scaffold674	31995	GG	AA	1946970359
SNP_P4_140499_32293	NW_004516087.1	Scaffold674	32293	AA	GG	1946970361
SNP_P4_140500_32418	NW_004516087.1	Scaffold674	32418	TT	CC	1946970363
SNP_P4_140501_36533	NW_004516087.1	Scaffold674	36533	GG	AA	1946970365
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SNP_P4_140503_36948	NW_004516087.1	Scaffold674	36948	GG	AA	1946970369
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SNP_P4_140505_44624	NW_004516087.1	Scaffold674	44624	GG	TT	1946970374
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SNP_P4_140515_65491	NW_004516087.1	Scaffold674	65491	CC	AA	1946970394
SNP_P4_140516_65673	NW_004516087.1	Scaffold674	65673	GG	TT	1946970396
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SNP_P4_140520_79549	NW_004516087.1	Scaffold674	79549	CC	TT	1946970402
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SNP_P4_140523_87139	NW_004516087.1	Scaffold674	87139	TT	CC	1946970406
SNP_P4_140524_87145	NW_004516087.1	Scaffold674	87145	TT	CC	1946970408
SNP_P4_140525_87170	NW_004516087.1	Scaffold674	87170	AA	GG	1946970410
SNP_P4_140526_87173	NW_004516087.1	Scaffold674	87173	TT	CC	1946970412
SNP_P4_140527_87227	NW_004516087.1	Scaffold674	87227	CC	AA	1946970414

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_140531_96829	NW_004516087.1	Scaffold674	96829	AA	GG	1946970420
SNP_P4_140532_97140	NW_004516087.1	Scaffold674	97140	TT	CC	1946970422
SNP_P4_140533_99719	NW_004516087.1	Scaffold674	99719	AA	CC	1946970424
SNP_P4_140534_109940	NW_004516087.1	Scaffold674	109940	TT	CC	1946970426
SNP_P4_140535_114389	NW_004516087.1	Scaffold674	114389	TT	GG	1946970428
SNP_P4_140536_124584	NW_004516087.1	Scaffold674	124584	GG	AA	1946970430
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SNP_P4_140538_126273	NW_004516087.1	Scaffold674	126273	AA	GG	1946970434
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SNP_P4_140540_128805	NW_004516087.1	Scaffold674	128805	CC	AA	1946970438
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SNP_P4_140569_181837	NW_004516087.1	Scaffold674	181837	CC	GG	1946970478
SNP_P4_140571_184370	NW_004516087.1	Scaffold674	184370	AA	CC	1946970480
SNP_P4_140572_184393	NW_004516087.1	Scaffold674	184393	CC	TT	1946970482
SNP_P4_140573_187117	NW_004516087.1	Scaffold674	187117	TT	GG	1946970484
SNP_P4_140574_198560	NW_004516087.1	Scaffold674	198560	AA	CC	1946970486
SNP_P4_140575_202522	NW_004516087.1	Scaffold674	202522	TT	CC	1946970488
SNP_P4_140576_202889	NW_004516087.1	Scaffold674	202889	TT	CC	1946970490
SNP_P4_140577_202898	NW_004516087.1	Scaffold674	202898	TT	CC	1946970492
SNP_P4_140578_202929	NW_004516087.1	Scaffold674	202929	AA	GG	1946970494
SNP_P4_140579_219469	NW_004516087.1	Scaffold674	219469	GG	CC	1946970496
SNP_P4_140580_219474	NW_004516087.1	Scaffold674	219474	GG	AA	1946970498

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_140581_219478	NW_004516087.1	Scaffold674	219478	GG	CC	1946970500
SNP_P4_140582_219972	NW_004516087.1	Scaffold674	219972	GG	AA	1946970502
SNP_P4_140583_221205	NW_004516087.1	Scaffold674	221205	TT	CC	1946970503
SNP_P4_140584_221346	NW_004516087.1	Scaffold674	221346	GG	AA	1946970505
SNP_P4_140585_221372	NW_004516087.1	Scaffold674	221372	TT	AA	1946970507
SNP_P4_140586_221388	NW_004516087.1	Scaffold674	221388	AA	GG	1946970509
SNP_P4_140587_222037	NW_004516087.1	Scaffold674	222037	GG	TT	1946970511
SNP_P4_140588_222305	NW_004516087.1	Scaffold674	222305	GG	AA	1946970513
SNP_P4_140591_230500	NW_004516087.1	Scaffold674	230500	AA	TT	1946970515
SNP_P4_140593_237260	NW_004516087.1	Scaffold674	237260	GG	AA	1946970517
SNP_P4_140594_240080	NW_004516087.1	Scaffold674	240080	GG	TT	1946970519
SNP_P4_140595_248051	NW_004516087.1	Scaffold674	248051	AA	GG	1946970521
SNP_P4_140597_249213	NW_004516087.1	Scaffold674	249213	GG	AA	1946970523
SNP_P4_140598_249301	NW_004516087.1	Scaffold674	249301	AA	GG	1946970525
SNP_P4_140599_250220	NW_004516087.1	Scaffold674	250220	AA	GG	1946970527
SNP_P4_140601_256148	NW_004516087.1	Scaffold674	256148	TT	GG	1946970529
SNP_P4_140602_269698	NW_004516087.1	Scaffold674	269698	AA	GG	1946970531
SNP_P4_140603_270266	NW_004516087.1	Scaffold674	270266	CC	AA	1946970533
SNP_P4_140604_281531	NW_004516087.1	Scaffold674	281531	CC	TT	1946970535
SNP_P4_140605_282017	NW_004516087.1	Scaffold674	282017	GG	TT	1946970537
SNP_P4_140606_282100	NW_004516087.1	Scaffold674	282100	AA	GG	1946970539
SNP_P4_140607_288627	NW_004516087.1	Scaffold674	288627	TT	CC	1946970541
SNP_P4_140608_289485	NW_004516087.1	Scaffold674	289485	AA	TT	1946970543
SNP_P4_140609_291168	NW_004516087.1	Scaffold674	291168	GG	AA	1946970545
SNP_P4_140610_294119	NW_004516087.1	Scaffold674	294119	TT	CC	1946970547
SNP_P4_140611_309725	NW_004516087.1	Scaffold674	309725	CC	TT	1946970549
SNP_P4_140612_309847	NW_004516087.1	Scaffold674	309847	AA	GG	1946970551
SNP_P4_140613_321559	NW_004516087.1	Scaffold674	321559	CC	AA	1946970553
SNP_P4_140614_331754	NW_004516087.1	Scaffold674	331754	CC	AA	1946970555
SNP_P4_140615_337474	NW_004516087.1	Scaffold674	337474	AA	GG	1946970557
SNP_P4_140617_357159	NW_004516087.1	Scaffold674	357159	AA	GG	1946970559
SNP_P4_140618_363679	NW_004516087.1	Scaffold674	363679	GG	CC	1946970561
SNP_P4_140619_368584	NW_004516087.1	Scaffold674	368584	GG	TT	1946970563
SNP_P4_140620_369743	NW_004516087.1	Scaffold674	369743	CC	TT	1946970565
SNP_P4_140621_369797	NW_004516087.1	Scaffold674	369797	TT	CC	1946970567
SNP_P4_140622_369889	NW_004516087.1	Scaffold674	369889	AA	GG	1946970569
SNP_P4_140623_371369	NW_004516087.1	Scaffold674	371369	GG	TT	1946970571
SNP_P4_140624_371399	NW_004516087.1	Scaffold674	371399	GG	AA	1946970573
SNP_P4_140625_371541	NW_004516087.1	Scaffold674	371541	CC	AA	1946970575
SNP_P4_140626_371785	NW_004516087.1	Scaffold674	371785	CC	AA	1946970577
SNP_P4_140627_372529	NW_004516087.1	Scaffold674	372529	AA	GG	1946970579
SNP_P4_140628_373880	NW_004516087.1	Scaffold674	373880	CC	TT	1946970581

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_140629_374560	NW_004516087.1	Scaffold674	374560	GG	AA	1946970583
SNP_P4_140630_375560	NW_004516087.1	Scaffold674	375560	AA	GG	1946970585
SNP_P4_140631_376355	NW_004516087.1	Scaffold674	376355	GG	TT	1946970587
SNP_P4_140632_377183	NW_004516087.1	Scaffold674	377183	CC	GG	1946970589
SNP_P4_140633_378816	NW_004516087.1	Scaffold674	378816	CC	AA	1946970591
SNP_P4_140634_389282	NW_004516087.1	Scaffold674	389282	TT	AA	1946970593
SNP_P4_140635_392076	NW_004516087.1	Scaffold674	392076	CC	AA	1946970595
SNP_P4_140636_392142	NW_004516087.1	Scaffold674	392142	CC	TT	1946970597
SNP_P4_140637_396773	NW_004516087.1	Scaffold674	396773	AA	GG	1946970599
SNP_P4_140638_396982	NW_004516087.1	Scaffold674	396982	AA	CC	1946970601
SNP_P4_140639_400863	NW_004516087.1	Scaffold674	400863	TT	CC	1946970603
SNP_P4_140640_400881	NW_004516087.1	Scaffold674	400881	AA	GG	1946970605
SNP_P4_140641_400882	NW_004516087.1	Scaffold674	400882	TT	CC	1946970607
SNP_P4_140642_401140	NW_004516087.1	Scaffold674	401140	GG	AA	1946970609
SNP_P4_140643_401149	NW_004516087.1	Scaffold674	401149	TT	CC	1946970611
SNP_P4_140644_401151	NW_004516087.1	Scaffold674	401151	GG	AA	1946970613
SNP_P4_140645_401155	NW_004516087.1	Scaffold674	401155	CC	TT	1946970615
SNP_P4_140646_401161	NW_004516087.1	Scaffold674	401161	AA	TT	1946970617
SNP_P4_140649_401338	NW_004516087.1	Scaffold674	401338	TT	GG	1946970619
SNP_P4_140650_401343	NW_004516087.1	Scaffold674	401343	CC	AA	1946970621
SNP_P4_140651_401414	NW_004516087.1	Scaffold674	401414	GG	TT	1946970623
SNP_P4_140652_401430	NW_004516087.1	Scaffold674	401430	AA	GG	1946970625
SNP_P4_140653_401469	NW_004516087.1	Scaffold674	401469	GG	AA	1946970627
SNP_P4_140655_401523	NW_004516087.1	Scaffold674	401523	GG	TT	1946970629
SNP_P4_140656_401572	NW_004516087.1	Scaffold674	401572	TT	CC	1946970631
SNP_P4_140657_401590	NW_004516087.1	Scaffold674	401590	TT	CC	1946970633
SNP_P4_140658_404866	NW_004516087.1	Scaffold674	404866	TT	CC	1946970635
SNP_P4_140661_405016	NW_004516087.1	Scaffold674	405016	CC	AA	1946970637
SNP_P4_140662_406916	NW_004516087.1	Scaffold674	406916	TT	CC	1946970639
SNP_P4_140663_409551	NW_004516087.1	Scaffold674	409551	AA	GG	1946970641
SNP_P4_140664_413621	NW_004516087.1	Scaffold674	413621	AA	TT	1946970643
SNP_P4_140666_416132	NW_004516087.1	Scaffold674	416132	TT	CC	1946970645
SNP_P4_140667_416408	NW_004516087.1	Scaffold674	416408	AA	CC	1946970647
SNP_P4_140668_426112	NW_004516087.1	Scaffold674	426112	GG	AA	1946970649
SNP_P4_140669_426127	NW_004516087.1	Scaffold674	426127	AA	TT	1946970651
SNP_P4_140670_426701	NW_004516087.1	Scaffold674	426701	AA	GG	1946970653
SNP_P4_140671_428744	NW_004516087.1	Scaffold674	428744	AA	TT	1946970655
SNP_P4_140672_428809	NW_004516087.1	Scaffold674	428809	TT	GG	1946970657
SNP_P4_140673_435583	NW_004516087.1	Scaffold674	435583	AA	GG	1946970659
SNP_P4_140674_436693	NW_004516087.1	Scaffold674	436693	TT	AA	1946970661
SNP_P4_140675_437197	NW_004516087.1	Scaffold674	437197	AA	GG	1946970663
SNP_P4_140676_442146	NW_004516087.1	Scaffold674	442146	AA	GG	1946970665

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_140677_443116	NW_004516087.1	Scaffold674	443116	AA	GG	1946970667
SNP_P4_140678_443119	NW_004516087.1	Scaffold674	443119	CC	TT	1946970669
SNP_P4_140679_443436	NW_004516087.1	Scaffold674	443436	TT	AA	1946970671
SNP_P4_140680_450497	NW_004516087.1	Scaffold674	450497	GG	AA	1946970673
SNP_P4_140683_462690	NW_004516087.1	Scaffold674	462690	AA	GG	1946970675
SNP_P4_140684_464125	NW_004516087.1	Scaffold674	464125	AA	TT	1946970677
SNP_P4_140685_467056	NW_004516087.1	Scaffold674	467056	TT	CC	1946970679
SNP_P4_140686_468806	NW_004516087.1	Scaffold674	468806	GG	CC	1946970681
SNP_P4_140687_468811	NW_004516087.1	Scaffold674	468811	GG	AA	1946970683
SNP_P4_140689_471873	NW_004516087.1	Scaffold674	471873	TT	CC	1946970685
SNP_P4_140690_472096	NW_004516087.1	Scaffold674	472096	CC	TT	1946970687
SNP_P4_140693_477977	NW_004516087.1	Scaffold674	477977	TT	GG	1946970689
SNP_P4_140694_478480	NW_004516087.1	Scaffold674	478480	TT	CC	1946970691
SNP_P4_140695_479484	NW_004516087.1	Scaffold674	479484	GG	CC	1946970693
SNP_P4_140696_482868	NW_004516087.1	Scaffold674	482868	CC	TT	1946970695
SNP_P4_140697_485635	NW_004516087.1	Scaffold674	485635	CC	TT	1946970697
SNP_P4_140698_486422	NW_004516087.1	Scaffold674	486422	GG	AA	1946970699
SNP_P4_140699_499132	NW_004516087.1	Scaffold674	499132	GG	AA	1946970701
SNP_P4_140700_500787	NW_004516087.1	Scaffold674	500787	TT	CC	1946970703
SNP_P4_140701_500799	NW_004516087.1	Scaffold674	500799	AA	TT	1946970705
SNP_P4_140702_500800	NW_004516087.1	Scaffold674	500800	GG	AA	1946970707
SNP_P4_140703_501085	NW_004516087.1	Scaffold674	501085	CC	TT	1946970709
SNP_P4_140704_501105	NW_004516087.1	Scaffold674	501105	TT	AA	1946970711
SNP_P4_140705_501126	NW_004516087.1	Scaffold674	501126	GG	TT	1946970713
SNP_P4_140706_501637	NW_004516087.1	Scaffold674	501637	CC	TT	1946970715
SNP_P4_140707_501916	NW_004516087.1	Scaffold674	501916	CC	TT	1946970717
SNP_P4_140708_502019	NW_004516087.1	Scaffold674	502019	AA	GG	1946970719
SNP_P4_140709_502031	NW_004516087.1	Scaffold674	502031	AA	CC	1946970721
SNP_P4_140710_502033	NW_004516087.1	Scaffold674	502033	AA	GG	1946970723
SNP_P4_140711_502037	NW_004516087.1	Scaffold674	502037	TT	CC	1946970725
SNP_P4_140712_502038	NW_004516087.1	Scaffold674	502038	CC	TT	1946970727
SNP_P4_140713_502320	NW_004516087.1	Scaffold674	502320	TT	CC	1946970729
SNP_P4_140714_502968	NW_004516087.1	Scaffold674	502968	TT	CC	1946970731
SNP_P4_140715_502983	NW_004516087.1	Scaffold674	502983	GG	CC	1946970733
SNP_P4_140716_503960	NW_004516087.1	Scaffold674	503960	AA	GG	1946970735
SNP_P4_140717_504076	NW_004516087.1	Scaffold674	504076	GG	CC	1946970737
SNP_P4_140721_514812	NW_004516087.1	Scaffold674	514812	AA	TT	1946970739
SNP_P4_140722_518490	NW_004516087.1	Scaffold674	518490	GG	AA	1946970741
SNP_P4_140723_519495	NW_004516087.1	Scaffold674	519495	TT	CC	1946970743
SNP_P4_140724_528031	NW_004516087.1	Scaffold674	528031	GG	AA	1946970745
SNP_P4_140726_531127	NW_004516087.1	Scaffold674	531127	GG	AA	1946970747
SNP_P4_140727_532634	NW_004516087.1	Scaffold674	532634	AA	GG	1946970749

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_140729_536088	NW_004516087.1	Scaffold674	536088	AA	TT	1946970753
SNP_P4_140730_542702	NW_004516087.1	Scaffold674	542702	AA	CC	1946970755
SNP_P4_140731_544113	NW_004516087.1	Scaffold674	544113	CC	TT	1946970757
SNP_P4_140732_545311	NW_004516087.1	Scaffold674	545311	AA	GG	1946970759
SNP_P4_140733_548980	NW_004516087.1	Scaffold674	548980	TT	CC	1946970761
SNP_P4_140734_549260	NW_004516087.1	Scaffold674	549260	TT	CC	1946970763
SNP_P4_140735_549644	NW_004516087.1	Scaffold674	549644	AA	CC	1946970765
SNP_P4_140736_551089	NW_004516087.1	Scaffold674	551089	CC	TT	1946970767
SNP_P4_140737_551525	NW_004516087.1	Scaffold674	551525	GG	AA	1946970769
SNP_P4_140739_556052	NW_004516087.1	Scaffold674	556052	GG	AA	1946970771
SNP_P4_140740_556306	NW_004516087.1	Scaffold674	556306	AA	GG	1946970773
SNP_P4_140741_556800	NW_004516087.1	Scaffold674	556800	GG	AA	1946970775
SNP_P4_140743_559487	NW_004516087.1	Scaffold674	559487	AA	GG	1946970777
SNP_P4_140744_560682	NW_004516087.1	Scaffold674	560682	CC	AA	1946970779
SNP_P4_140745_562606	NW_004516087.1	Scaffold674	562606	TT	AA	1946970781
SNP_P4_140746_567202	NW_004516087.1	Scaffold674	567202	TT	CC	1946970783
SNP_P4_140747_569041	NW_004516087.1	Scaffold674	569041	TT	CC	1946970785
SNP_P4_140748_571768	NW_004516087.1	Scaffold674	571768	TT	CC	1946970787
SNP_P4_140749_574494	NW_004516087.1	Scaffold674	574494	CC	TT	1946970788
SNP_P4_140750_582768	NW_004516087.1	Scaffold674	582768	TT	CC	1946970790
SNP_P4_140751_589980	NW_004516087.1	Scaffold674	589980	GG	TT	1946970792
SNP_P4_140752_591685	NW_004516087.1	Scaffold674	591685	CC	TT	1946970794
SNP_P4_140755_595032	NW_004516087.1	Scaffold674	595032	TT	AA	1946970796
SNP_P4_140756_598635	NW_004516087.1	Scaffold674	598635	GG	AA	1946970798
SNP_P4_140757_601955	NW_004516087.1	Scaffold674	601955	AA	GG	1946970800
SNP_P4_140758_602795	NW_004516087.1	Scaffold674	602795	CC	TT	1946970802
SNP_P4_140759_603030	NW_004516087.1	Scaffold674	603030	AA	CC	1946970804
SNP_P4_140760_617629	NW_004516087.1	Scaffold674	617629	GG	TT	1946970805
SNP_P4_140761_618339	NW_004516087.1	Scaffold674	618339	AA	GG	1946970807
SNP_P4_140762_619956	NW_004516087.1	Scaffold674	619956	AA	GG	1946970809
SNP_P4_140763_620235	NW_004516087.1	Scaffold674	620235	GG	AA	1946970811
SNP_P4_140764_620425	NW_004516087.1	Scaffold674	620425	AA	GG	1946970813
SNP_P4_140767_628195	NW_004516087.1	Scaffold674	628195	TT	AA	1946970815
SNP_P4_140768_629490	NW_004516087.1	Scaffold674	629490	AA	CC	1946970817
SNP_P4_140771_635370	NW_004516087.1	Scaffold674	635370	GG	TT	1946970819
SNP_P4_140772_635948	NW_004516087.1	Scaffold674	635948	AA	TT	1946970821
SNP_P4_140774_649030	NW_004516087.1	Scaffold674	649030	CC	TT	1946970823
SNP_P4_140775_649289	NW_004516087.1	Scaffold674	649289	AA	GG	1946970825
SNP_P4_140776_657580	NW_004516087.1	Scaffold674	657580	AA	GG	1946970827
SNP_P4_140777_657869	NW_004516087.1	Scaffold674	657869	TT	GG	1946970829
SNP_P4_140778_660128	NW_004516087.1	Scaffold674	660128	GG	TT	1946970831

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_140780_664574	NW_004516087.1	Scaffold674	664574	AA	GG	1946970835
SNP_P4_140781_668184	NW_004516087.1	Scaffold674	668184	TT	CC	1946970837
SNP_P4_140782_668370	NW_004516087.1	Scaffold674	668370	TT	CC	1946970838
SNP_P4_140783_668475	NW_004516087.1	Scaffold674	668475	AA	GG	1946970840
SNP_P4_140784_668805	NW_004516087.1	Scaffold674	668805	AA	GG	1946970842
SNP_P4_140785_670973	NW_004516087.1	Scaffold674	670973	CC	TT	1946970844
SNP_P4_140786_672865	NW_004516087.1	Scaffold674	672865	CC	AA	1946970846
SNP_P4_140787_673403	NW_004516087.1	Scaffold674	673403	GG	AA	1946970849
SNP_P4_140789_678310	NW_004516087.1	Scaffold674	678310	CC	TT	1946970851
SNP_P4_140790_679763	NW_004516087.1	Scaffold674	679763	AA	GG	1946970853
SNP_P4_140791_679780	NW_004516087.1	Scaffold674	679780	GG	CC	1946970855
SNP_P4_140793_682290	NW_004516087.1	Scaffold674	682290	CC	AA	1946970857
SNP_P4_140794_682522	NW_004516087.1	Scaffold674	682522	AA	TT	1946970859
SNP_P4_140795_693083	NW_004516087.1	Scaffold674	693083	GG	CC	1946970861
SNP_P4_140796_698853	NW_004516087.1	Scaffold674	698853	TT	AA	1946970863
SNP_P4_140797_702546	NW_004516087.1	Scaffold674	702546	AA	TT	1946970865
SNP_P4_140798_703056	NW_004516087.1	Scaffold674	703056	GG	TT	1946970867
SNP_P4_140799_703062	NW_004516087.1	Scaffold674	703062	GG	CC	1946970869
SNP_P4_140800_703364	NW_004516087.1	Scaffold674	703364	TT	CC	1946970871
SNP_P4_140801_704031	NW_004516087.1	Scaffold674	704031	TT	CC	1946970873
SNP_P4_140802_711894	NW_004516087.1	Scaffold674	711894	GG	AA	1946970875
SNP_P4_140803_712597	NW_004516087.1	Scaffold674	712597	TT	AA	1946970877
SNP_P4_140804_718777	NW_004516087.1	Scaffold674	718777	CC	TT	1946970879
SNP_P4_140805_720293	NW_004516087.1	Scaffold674	720293	AA	GG	1946970881
SNP_P4_140806_720874	NW_004516087.1	Scaffold674	720874	TT	CC	1946970883
SNP_P4_140807_726819	NW_004516087.1	Scaffold674	726819	AA	GG	1946970885
SNP_P4_140808_726820	NW_004516087.1	Scaffold674	726820	TT	CC	1946970887
SNP_P4_140809_728225	NW_004516087.1	Scaffold674	728225	AA	TT	1946970889
SNP_P4_140810_728228	NW_004516087.1	Scaffold674	728228	GG	TT	1946970891
SNP_P4_140811_728371	NW_004516087.1	Scaffold674	728371	CC	AA	1946970893
SNP_P4_140812_728536	NW_004516087.1	Scaffold674	728536	GG	AA	1946970895
SNP_P4_140813_729638	NW_004516087.1	Scaffold674	729638	CC	TT	1946970897
SNP_P4_140814_730613	NW_004516087.1	Scaffold674	730613	CC	TT	1946970899
SNP_P4_140815_731696	NW_004516087.1	Scaffold674	731696	AA	CC	1946970901
SNP_P4_140816_734179	NW_004516087.1	Scaffold674	734179	AA	GG	1946970903
SNP_P4_140817_735498	NW_004516087.1	Scaffold674	735498	TT	CC	1946970905
SNP_P4_140818_739559	NW_004516087.1	Scaffold674	739559	CC	AA	1946970907
SNP_P4_140819_742138	NW_004516087.1	Scaffold674	742138	AA	GG	1946970909
SNP_P4_140820_742461	NW_004516087.1	Scaffold674	742461	GG	TT	1946970911
SNP_P4_140821_742515	NW_004516087.1	Scaffold674	742515	CC	TT	1946970913
SNP_P4_140823_745507	NW_004516087.1	Scaffold674	745507	AA	GG	1946970915

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_140824_758367	NW_004516087.1	Scaffold674	758367	TT	CC	1946970917
SNP_P4_140825_758454	NW_004516087.1	Scaffold674	758454	GG	AA	1946970919
SNP_P4_140826_758461	NW_004516087.1	Scaffold674	758461	GG	AA	1946970921
SNP_P4_140827_760033	NW_004516087.1	Scaffold674	760033	TT	CC	1946970923
SNP_P4_140828_760742	NW_004516087.1	Scaffold674	760742	TT	GG	1946970925
SNP_P4_140829_761111	NW_004516087.1	Scaffold674	761111	CC	TT	1946970927
SNP_P4_140831_772119	NW_004516087.1	Scaffold674	772119	GG	AA	1946970929
SNP_P4_140832_773490	NW_004516087.1	Scaffold674	773490	AA	CC	1946970931
SNP_P4_140833_775917	NW_004516087.1	Scaffold674	775917	AA	GG	1946970933
SNP_P4_140834_777585	NW_004516087.1	Scaffold674	777585	TT	CC	1946970935
SNP_P4_140835_780247	NW_004516087.1	Scaffold674	780247	CC	TT	1946970937
SNP_P4_140836_783334	NW_004516087.1	Scaffold674	783334	AA	GG	1946970939
SNP_P4_140837_783802	NW_004516087.1	Scaffold674	783802	TT	CC	1946970941
SNP_P4_140838_784664	NW_004516087.1	Scaffold674	784664	TT	CC	1946970943
SNP_P4_140839_785381	NW_004516087.1	Scaffold674	785381	CC	GG	1946970945
SNP_P4_140840_788512	NW_004516087.1	Scaffold674	788512	GG	AA	1946970947
SNP_P4_140841_788513	NW_004516087.1	Scaffold674	788513	CC	TT	1946970949
SNP_P4_140842_789921	NW_004516087.1	Scaffold674	789921	TT	CC	1946970951
SNP_P4_140843_797410	NW_004516087.1	Scaffold674	797410	TT	CC	1946970953
SNP_P4_140844_797909	NW_004516087.1	Scaffold674	797909	AA	GG	1946970955
SNP_P4_140845_827159	NW_004516087.1	Scaffold674	827159	AA	GG	1946970957
SNP_P4_140846_829548	NW_004516087.1	Scaffold674	829548	CC	AA	1946970959
SNP_P4_140847_829590	NW_004516087.1	Scaffold674	829590	AA	GG	1946970961
SNP_P4_140848_829679	NW_004516087.1	Scaffold674	829679	GG	TT	1946970963
SNP_P4_140849_829682	NW_004516087.1	Scaffold674	829682	TT	GG	1946970965
SNP_P4_140850_829757	NW_004516087.1	Scaffold674	829757	TT	CC	1946970967
SNP_P4_140851_829822	NW_004516087.1	Scaffold674	829822	GG	AA	1946970969
SNP_P4_140852_829882	NW_004516087.1	Scaffold674	829882	CC	TT	1946970971
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SNP_P4_140855_829918	NW_004516087.1	Scaffold674	829918	CC	TT	1946970977
SNP_P4_140856_829971	NW_004516087.1	Scaffold674	829971	AA	GG	1946970979
SNP_P4_140858_830856	NW_004516087.1	Scaffold674	830856	GG	TT	1946970981
SNP_P4_140859_838230	NW_004516087.1	Scaffold674	838230	CC	TT	1946970983
SNP_P4_140861_840098	NW_004516087.1	Scaffold674	840098	GG	CC	1946970985
SNP_P4_140862_841029	NW_004516087.1	Scaffold674	841029	CC	TT	1946970987
SNP_P4_140863_842070	NW_004516087.1	Scaffold674	842070	CC	TT	1946970989
SNP_P4_140864_842338	NW_004516087.1	Scaffold674	842338	CC	TT	1946970991
SNP_P4_140865_842374	NW_004516087.1	Scaffold674	842374	AA	GG	1946970993
SNP_P4_140866_842884	NW_004516087.1	Scaffold674	842884	AA	GG	1946970995
SNP_P4_140867_843199	NW_004516087.1	Scaffold674	843199	TT	GG	1946970997
SNP_P4_140868_843201	NW_004516087.1	Scaffold674	843201	TT	CC	1946970999

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_140870_843374	NW_004516087.1	Scaffold674	843374	AA	TT	1946971003
SNP_P4_140871_848609	NW_004516087.1	Scaffold674	848609	CC	AA	1946971005
SNP_P4_140872_850246	NW_004516087.1	Scaffold674	850246	CC	TT	1946971007
SNP_P4_140874_856002	NW_004516087.1	Scaffold674	856002	GG	AA	1946971009
SNP_P4_140875_856667	NW_004516087.1	Scaffold674	856667	AA	GG	1946971011
SNP_P4_140876_857769	NW_004516087.1	Scaffold674	857769	GG	AA	1946971013
SNP_P4_140877_870385	NW_004516087.1	Scaffold674	870385	CC	TT	1946971015
SNP_P4_140878_871622	NW_004516087.1	Scaffold674	871622	TT	AA	1946971017
SNP_P4_140879_874393	NW_004516087.1	Scaffold674	874393	CC	TT	1946971019
SNP_P4_140880_877116	NW_004516087.1	Scaffold674	877116	GG	AA	1946971021
SNP_P4_140881_879418	NW_004516087.1	Scaffold674	879418	AA	TT	1946971023
SNP_P4_140882_886143	NW_004516087.1	Scaffold674	886143	AA	CC	1946971025
SNP_P4_140883_886152	NW_004516087.1	Scaffold674	886152	TT	CC	1946971027
SNP_P4_140884_887603	NW_004516087.1	Scaffold674	887603	GG	AA	1946971029
SNP_P4_140885_887678	NW_004516087.1	Scaffold674	887678	CC	TT	1946971031
SNP_P4_140886_888054	NW_004516087.1	Scaffold674	888054	AA	TT	1946971033
SNP_P4_140887_890176	NW_004516087.1	Scaffold674	890176	CC	AA	1946971035
SNP_P4_140888_891252	NW_004516087.1	Scaffold674	891252	TT	CC	1946971037
SNP_P4_140889_891327	NW_004516087.1	Scaffold674	891327	AA	GG	1946971039
SNP_P4_140890_891400	NW_004516087.1	Scaffold674	891400	CC	TT	1946971041
SNP_P4_140891_891413	NW_004516087.1	Scaffold674	891413	CC	TT	1946971043
SNP_P4_140892_891415	NW_004516087.1	Scaffold674	891415	AA	TT	1946971045
SNP_P4_140893_891680	NW_004516087.1	Scaffold674	891680	GG	TT	1946971047
SNP_P4_140894_891682	NW_004516087.1	Scaffold674	891682	AA	GG	1946971049
SNP_P4_140895_891705	NW_004516087.1	Scaffold674	891705	CC	GG	1946971051
SNP_P4_140896_218	NW_004516088.1	Scaffold675	218	TT	CC	1946971053
SNP_P4_140897_301	NW_004516088.1	Scaffold675	301	TT	CC	1946971055
SNP_P4_140898_13946	NW_004516088.1	Scaffold675	13946	CC	TT	1946971057
SNP_P4_140899_15215	NW_004516088.1	Scaffold675	15215	TT	CC	1946971059
SNP_P4_140900_15263	NW_004516088.1	Scaffold675	15263	CC	TT	1946971061
SNP_P4_140901_15365	NW_004516088.1	Scaffold675	15365	CC	TT	1946971063
SNP_P4_140902_15366	NW_004516088.1	Scaffold675	15366	AA	GG	1946971065
SNP_P4_140903_15451	NW_004516088.1	Scaffold675	15451	GG	TT	1946971067
SNP_P4_140906_15708	NW_004516088.1	Scaffold675	15708	TT	CC	1946971069
SNP_P4_140907_15717	NW_004516088.1	Scaffold675	15717	TT	AA	1946971071
SNP_P4_140908_15722	NW_004516088.1	Scaffold675	15722	GG	CC	1946971073
SNP_P4_140909_15874	NW_004516088.1	Scaffold675	15874	CC	GG	1946971075
SNP_P4_140910_15880	NW_004516088.1	Scaffold675	15880	CC	TT	1946971077
SNP_P4_140911_20111	NW_004516088.1	Scaffold675	20111	GG	TT	1946971079
SNP_P4_140912_20140	NW_004516088.1	Scaffold675	20140	CC	TT	1946971081
SNP_P4_140913_20284	NW_004516088.1	Scaffold675	20284	AA	GG	1946971083

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_140915_20343	NW_004516088.1	Scaffold675	20343	AA	GG	1946971087
SNP_P4_140916_60650	NW_004516088.1	Scaffold675	60650	AA	CC	1946971089
SNP_P4_140917_60937	NW_004516088.1	Scaffold675	60937	TT	GG	1946971091
SNP_P4_140918_60940	NW_004516088.1	Scaffold675	60940	CC	TT	1946971093
SNP_P4_140919_60951	NW_004516088.1	Scaffold675	60951	TT	CC	1946971095
SNP_P4_140920_73882	NW_004516088.1	Scaffold675	73882	TT	AA	1946971097
SNP_P4_140923_82270	NW_004516088.1	Scaffold675	82270	AA	CC	1946971099
SNP_P4_140925_82585	NW_004516088.1	Scaffold675	82585	CC	TT	1946971101
SNP_P4_140926_82597	NW_004516088.1	Scaffold675	82597	GG	AA	1946971103
SNP_P4_140927_89675	NW_004516088.1	Scaffold675	89675	TT	GG	1946971105
SNP_P4_140928_89697	NW_004516088.1	Scaffold675	89697	TT	GG	1946971107
SNP_P4_140930_90038	NW_004516088.1	Scaffold675	90038	AA	TT	1946971109
SNP_P4_140931_90075	NW_004516088.1	Scaffold675	90075	CC	TT	1946971111
SNP_P4_140932_90158	NW_004516088.1	Scaffold675	90158	AA	GG	1946971113
SNP_P4_140934_90960	NW_004516088.1	Scaffold675	90960	AA	CC	1946971115
SNP_P4_140935_90963	NW_004516088.1	Scaffold675	90963	AA	CC	1946971117
SNP_P4_140936_90969	NW_004516088.1	Scaffold675	90969	TT	GG	1946971118
SNP_P4_140937_103765	NW_004516088.1	Scaffold675	103765	CC	GG	1946971120
SNP_P4_140938_104207	NW_004516088.1	Scaffold675	104207	AA	GG	1946971122
SNP_P4_140939_115846	NW_004516088.1	Scaffold675	115846	CC	TT	1946971124
SNP_P4_140940_131822	NW_004516088.1	Scaffold675	131822	CC	AA	1946971126
SNP_P4_140941_132904	NW_004516088.1	Scaffold675	132904	TT	AA	1946971128
SNP_P4_140942_133381	NW_004516088.1	Scaffold675	133381	GG	TT	1946971130
SNP_P4_140943_149371	NW_004516088.1	Scaffold675	149371	TT	GG	1946971132
SNP_P4_140944_13801	NW_004516089.1	Scaffold676	13801	GG	AA	1946971134
SNP_P4_140945_14075	NW_004516089.1	Scaffold676	14075	CC	TT	1946971136
SNP_P4_140946_14083	NW_004516089.1	Scaffold676	14083	CC	TT	1946971138
SNP_P4_140947_14121	NW_004516089.1	Scaffold676	14121	TT	CC	1946971140
SNP_P4_140948_14210	NW_004516089.1	Scaffold676	14210	AA	GG	1946971142
SNP_P4_140950_14252	NW_004516089.1	Scaffold676	14252	CC	TT	1946971144
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SNP_P4_140952_14525	NW_004516089.1	Scaffold676	14525	AA	GG	1946971220
SNP_P4_140953_14734	NW_004516089.1	Scaffold676	14734	GG	CC	1946971222
SNP_P4_140955_14799	NW_004516089.1	Scaffold676	14799	CC	TT	1946971224
SNP_P4_140956_14887	NW_004516089.1	Scaffold676	14887	CC	GG	1946971226
SNP_P4_140957_14898	NW_004516089.1	Scaffold676	14898	CC	GG	1946971228
SNP_P4_140958_20175	NW_004516089.1	Scaffold676	20175	TT	AA	1946971230
SNP_P4_140959_20492	NW_004516089.1	Scaffold676	20492	TT	CC	1946971232
SNP_P4_140960_20510	NW_004516089.1	Scaffold676	20510	AA	GG	1946971234
SNP_P4_140961_20515	NW_004516089.1	Scaffold676	20515	CC	TT	1946971236
SNP_P4_140962_23648	NW_004516089.1	Scaffold676	23648	CC	AA	1946971238

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_140964_27053	NW_004516089.1	Scaffold676	27053	CC	AA	1946971242
SNP_P4_140965_27378	NW_004516089.1	Scaffold676	27378	TT	AA	1946971244
SNP_P4_140966_49646	NW_004516089.1	Scaffold676	49646	TT	AA	1946971246
SNP_P4_140967_49655	NW_004516089.1	Scaffold676	49655	TT	AA	1946971248
SNP_P4_140968_49796	NW_004516089.1	Scaffold676	49796	CC	TT	1946971250
SNP_P4_140969_50070	NW_004516089.1	Scaffold676	50070	CC	TT	1946971252
SNP_P4_140970_50143	NW_004516089.1	Scaffold676	50143	AA	CC	1946971254
SNP_P4_140971_50159	NW_004516089.1	Scaffold676	50159	GG	CC	1946971256
SNP_P4_140972_50420	NW_004516089.1	Scaffold676	50420	AA	GG	1946971258
SNP_P4_140973_50430	NW_004516089.1	Scaffold676	50430	AA	CC	1946971260
SNP_P4_140974_50434	NW_004516089.1	Scaffold676	50434	TT	CC	1946971263
SNP_P4_140975_50457	NW_004516089.1	Scaffold676	50457	CC	GG	1946971265
SNP_P4_140976_51093	NW_004516089.1	Scaffold676	51093	AA	TT	1946971267
SNP_P4_140977_51617	NW_004516089.1	Scaffold676	51617	AA	GG	1946971269
SNP_P4_140978_51645	NW_004516089.1	Scaffold676	51645	TT	CC	1946971271
SNP_P4_140979_52648	NW_004516089.1	Scaffold676	52648	GG	AA	1946971274
SNP_P4_140980_52672	NW_004516089.1	Scaffold676	52672	TT	CC	1946971276
SNP_P4_140981_52674	NW_004516089.1	Scaffold676	52674	CC	AA	1946971278
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SNP_P4_140988_54607	NW_004516089.1	Scaffold676	54607	AA	GG	1946971292
SNP_P4_140989_54613	NW_004516089.1	Scaffold676	54613	AA	TT	1946971294
SNP_P4_140990_54990	NW_004516089.1	Scaffold676	54990	GG	AA	1946971296
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SNP_P4_140996_55774	NW_004516089.1	Scaffold676	55774	TT	GG	1946971306
SNP_P4_140997_55900	NW_004516089.1	Scaffold676	55900	AA	CC	1946971308
SNP_P4_140998_56047	NW_004516089.1	Scaffold676	56047	CC	TT	1946971310
SNP_P4_140999_56110	NW_004516089.1	Scaffold676	56110	GG	CC	1946971312
SNP_P4_141000_56144	NW_004516089.1	Scaffold676	56144	CC	TT	1946971314
SNP_P4_141001_56173	NW_004516089.1	Scaffold676	56173	GG	TT	1946971316
SNP_P4_141002_56353	NW_004516089.1	Scaffold676	56353	TT	AA	1946971317
SNP_P4_141003_56448	NW_004516089.1	Scaffold676	56448	GG	CC	1946971319
SNP_P4_141004_56611	NW_004516089.1	Scaffold676	56611	TT	GG	1946971321
SNP_P4_141005_56613	NW_004516089.1	Scaffold676	56613	GG	TT	1946971323

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_141008_56696	NW_004516089.1	Scaffold676	56696	GG	AA	1946971329
SNP_P4_141009_56702	NW_004516089.1	Scaffold676	56702	TT	CC	1946971331
SNP_P4_141010_56738	NW_004516089.1	Scaffold676	56738	GG	AA	1946971333
SNP_P4_141011_56739	NW_004516089.1	Scaffold676	56739	GG	TT	1946971334
SNP_P4_141012_56754	NW_004516089.1	Scaffold676	56754	AA	GG	1946971336
SNP_P4_141013_56857	NW_004516089.1	Scaffold676	56857	AA	TT	1946971338
SNP_P4_141014_56899	NW_004516089.1	Scaffold676	56899	CC	AA	1946971340
SNP_P4_141015_56949	NW_004516089.1	Scaffold676	56949	GG	CC	1946971342
SNP_P4_141016_59177	NW_004516089.1	Scaffold676	59177	GG	CC	1946971344
SNP_P4_141017_59191	NW_004516089.1	Scaffold676	59191	GG	AA	1946971346
SNP_P4_141018_59197	NW_004516089.1	Scaffold676	59197	GG	TT	1946971348
SNP_P4_141019_59208	NW_004516089.1	Scaffold676	59208	CC	TT	1946971350
SNP_P4_141020_59217	NW_004516089.1	Scaffold676	59217	AA	GG	1946971352
SNP_P4_141021_59221	NW_004516089.1	Scaffold676	59221	TT	AA	1946971354
SNP_P4_141022_59252	NW_004516089.1	Scaffold676	59252	CC	GG	1946971356
SNP_P4_141023_64233	NW_004516089.1	Scaffold676	64233	TT	CC	1946971358
SNP_P4_141024_64254	NW_004516089.1	Scaffold676	64254	CC	TT	1946971360
SNP_P4_141025_64258	NW_004516089.1	Scaffold676	64258	AA	GG	1946971362
SNP_P4_141026_64302	NW_004516089.1	Scaffold676	64302	GG	AA	1946971364
SNP_P4_141027_64359	NW_004516089.1	Scaffold676	64359	TT	CC	1946971366
SNP_P4_141028_64399	NW_004516089.1	Scaffold676	64399	GG	CC	1946971368
SNP_P4_141029_66264	NW_004516089.1	Scaffold676	66264	CC	AA	1946971370
SNP_P4_141030_66290	NW_004516089.1	Scaffold676	66290	GG	AA	1946971372
SNP_P4_141031_66323	NW_004516089.1	Scaffold676	66323	CC	AA	1946971374
SNP_P4_141032_66424	NW_004516089.1	Scaffold676	66424	AA	GG	1946971376
SNP_P4_141033_66444	NW_004516089.1	Scaffold676	66444	AA	GG	1946971378
SNP_P4_141034_66574	NW_004516089.1	Scaffold676	66574	GG	CC	1946971380
SNP_P4_141035_67317	NW_004516089.1	Scaffold676	67317	AA	TT	1946971382
SNP_P4_141036_68340	NW_004516089.1	Scaffold676	68340	AA	TT	1946971384
SNP_P4_141037_68355	NW_004516089.1	Scaffold676	68355	AA	TT	1946971386
SNP_P4_141038_68430	NW_004516089.1	Scaffold676	68430	TT	CC	1946971388
SNP_P4_141039_68444	NW_004516089.1	Scaffold676	68444	TT	GG	1946971390
SNP_P4_141040_68480	NW_004516089.1	Scaffold676	68480	AA	TT	1946971392
SNP_P4_141041_68512	NW_004516089.1	Scaffold676	68512	AA	TT	1946971394
SNP_P4_141042_68638	NW_004516089.1	Scaffold676	68638	AA	TT	1946971396
SNP_P4_141043_68716	NW_004516089.1	Scaffold676	68716	CC	GG	1946971398
SNP_P4_141044_68728	NW_004516089.1	Scaffold676	68728	TT	CC	1946971400
SNP_P4_141045_68736	NW_004516089.1	Scaffold676	68736	AA	GG	1946971402
SNP_P4_141046_68745	NW_004516089.1	Scaffold676	68745	CC	TT	1946971404
SNP_P4_141047_68760	NW_004516089.1	Scaffold676	68760	TT	CC	1946971406

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_141049_68877	NW_004516089.1	Scaffold676	68877	AA	CC	1946971410
SNP_P4_141050_68897	NW_004516089.1	Scaffold676	68897	AA	CC	1946971412
SNP_P4_141051_69270	NW_004516089.1	Scaffold676	69270	TT	CC	1946971414
SNP_P4_141053_69580	NW_004516089.1	Scaffold676	69580	CC	AA	1946971416
SNP_P4_141054_69657	NW_004516089.1	Scaffold676	69657	CC	TT	1946971418
SNP_P4_141055_69880	NW_004516089.1	Scaffold676	69880	TT	GG	1946971420
SNP_P4_141056_70122	NW_004516089.1	Scaffold676	70122	TT	CC	1946971422
SNP_P4_141057_70146	NW_004516089.1	Scaffold676	70146	CC	TT	1946971424
SNP_P4_141058_70367	NW_004516089.1	Scaffold676	70367	TT	AA	1946971426
SNP_P4_141059_70409	NW_004516089.1	Scaffold676	70409	TT	GG	1946971428
SNP_P4_141060_70504	NW_004516089.1	Scaffold676	70504	TT	CC	1946971430
SNP_P4_141061_70511	NW_004516089.1	Scaffold676	70511	AA	CC	1946971432
SNP_P4_141062_71273	NW_004516089.1	Scaffold676	71273	AA	GG	1946971434
SNP_P4_141063_71303	NW_004516089.1	Scaffold676	71303	GG	AA	1946971436
SNP_P4_141064_72171	NW_004516089.1	Scaffold676	72171	CC	TT	1946971438
SNP_P4_141065_72626	NW_004516089.1	Scaffold676	72626	CC	TT	1946971440
SNP_P4_141066_72694	NW_004516089.1	Scaffold676	72694	GG	AA	1946971442
SNP_P4_141067_72697	NW_004516089.1	Scaffold676	72697	TT	GG	1946971444
SNP_P4_141068_72801	NW_004516089.1	Scaffold676	72801	GG	AA	1946971446
SNP_P4_141069_72876	NW_004516089.1	Scaffold676	72876	TT	GG	1946971448
SNP_P4_141071_73257	NW_004516089.1	Scaffold676	73257	GG	TT	1946971450
SNP_P4_141072_73621	NW_004516089.1	Scaffold676	73621	TT	CC	1946971452
SNP_P4_141073_73668	NW_004516089.1	Scaffold676	73668	TT	CC	1946971454
SNP_P4_141074_73695	NW_004516089.1	Scaffold676	73695	GG	AA	1946971456
SNP_P4_141075_73763	NW_004516089.1	Scaffold676	73763	TT	CC	1946971458
SNP_P4_141076_73796	NW_004516089.1	Scaffold676	73796	GG	CC	1946971460
SNP_P4_141077_73808	NW_004516089.1	Scaffold676	73808	GG	CC	1946971462
SNP_P4_141078_73830	NW_004516089.1	Scaffold676	73830	GG	AA	1946971464
SNP_P4_141079_73831	NW_004516089.1	Scaffold676	73831	GG	AA	1946971466
SNP_P4_141080_73834	NW_004516089.1	Scaffold676	73834	CC	AA	1946971468
SNP_P4_141081_77519	NW_004516089.1	Scaffold676	77519	CC	TT	1946971470
SNP_P4_141082_77545	NW_004516089.1	Scaffold676	77545	CC	TT	1946971472
SNP_P4_141083_77546	NW_004516089.1	Scaffold676	77546	AA	GG	1946971474
SNP_P4_141084_77552	NW_004516089.1	Scaffold676	77552	CC	TT	1946971476
SNP_P4_141085_77562	NW_004516089.1	Scaffold676	77562	CC	AA	1946971478
SNP_P4_141086_77614	NW_004516089.1	Scaffold676	77614	GG	CC	1946971480
SNP_P4_141087_77642	NW_004516089.1	Scaffold676	77642	GG	AA	1946971482
SNP_P4_141088_77667	NW_004516089.1	Scaffold676	77667	GG	AA	1946971484
SNP_P4_141089_77733	NW_004516089.1	Scaffold676	77733	CC	AA	1946971486
SNP_P4_141090_77776	NW_004516089.1	Scaffold676	77776	CC	GG	1946971488
SNP_P4_141091_77932	NW_004516089.1	Scaffold676	77932	TT	GG	1946971490

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_141093_78015	NW_004516089.1	Scaffold676	78015	TT	CC	1946971493
SNP_P4_141094_78061	NW_004516089.1	Scaffold676	78061	GG	AA	1946971495
SNP_P4_141095_78078	NW_004516089.1	Scaffold676	78078	AA	GG	1946971497
SNP_P4_141096_78823	NW_004516089.1	Scaffold676	78823	AA	CC	1946971499
SNP_P4_141097_78842	NW_004516089.1	Scaffold676	78842	AA	GG	1946971501
SNP_P4_141098_79511	NW_004516089.1	Scaffold676	79511	CC	TT	1946971503
SNP_P4_141099_79666	NW_004516089.1	Scaffold676	79666	TT	AA	1946971505
SNP_P4_141100_79725	NW_004516089.1	Scaffold676	79725	CC	TT	1946971507
SNP_P4_141101_79916	NW_004516089.1	Scaffold676	79916	CC	TT	1946971509
SNP_P4_141102_79970	NW_004516089.1	Scaffold676	79970	TT	AA	1946971511
SNP_P4_141103_79998	NW_004516089.1	Scaffold676	79998	TT	CC	1946971513
SNP_P4_141104_80052	NW_004516089.1	Scaffold676	80052	AA	TT	1946971514
SNP_P4_141105_80966	NW_004516089.1	Scaffold676	80966	CC	GG	1946971516
SNP_P4_141106_81239	NW_004516089.1	Scaffold676	81239	GG	AA	1946971518
SNP_P4_141107_81250	NW_004516089.1	Scaffold676	81250	AA	TT	1946971520
SNP_P4_141108_81258	NW_004516089.1	Scaffold676	81258	AA	CC	1946971522
SNP_P4_141109_83689	NW_004516089.1	Scaffold676	83689	GG	AA	1946971524
SNP_P4_141110_83992	NW_004516089.1	Scaffold676	83992	AA	GG	1946971526
SNP_P4_141111_84058	NW_004516089.1	Scaffold676	84058	CC	TT	1946971528
SNP_P4_141113_84091	NW_004516089.1	Scaffold676	84091	GG	CC	1946971530
SNP_P4_141114_84140	NW_004516089.1	Scaffold676	84140	TT	CC	1946971532
SNP_P4_141115_84311	NW_004516089.1	Scaffold676	84311	GG	AA	1946971534
SNP_P4_141116_84313	NW_004516089.1	Scaffold676	84313	CC	AA	1946971536
SNP_P4_141117_84373	NW_004516089.1	Scaffold676	84373	AA	GG	1946971538
SNP_P4_141118_84427	NW_004516089.1	Scaffold676	84427	GG	CC	1946971540
SNP_P4_141119_84428	NW_004516089.1	Scaffold676	84428	TT	AA	1946971542
SNP_P4_141120_84495	NW_004516089.1	Scaffold676	84495	GG	AA	1946971544
SNP_P4_141122_84553	NW_004516089.1	Scaffold676	84553	TT	AA	1946971546
SNP_P4_141123_84582	NW_004516089.1	Scaffold676	84582	AA	CC	1946971548
SNP_P4_141124_85299	NW_004516089.1	Scaffold676	85299	CC	AA	1946971550
SNP_P4_141125_85310	NW_004516089.1	Scaffold676	85310	TT	CC	1946971552
SNP_P4_141126_85319	NW_004516089.1	Scaffold676	85319	GG	AA	1946971554
SNP_P4_141127_85380	NW_004516089.1	Scaffold676	85380	AA	CC	1946971556
SNP_P4_141128_85407	NW_004516089.1	Scaffold676	85407	CC	TT	1946971557
SNP_P4_141129_85470	NW_004516089.1	Scaffold676	85470	TT	GG	1946971559
SNP_P4_141130_85506	NW_004516089.1	Scaffold676	85506	GG	AA	1946971561
SNP_P4_141131_85562	NW_004516089.1	Scaffold676	85562	CC	TT	1946971563
SNP_P4_141132_85594	NW_004516089.1	Scaffold676	85594	AA	TT	1946971565
SNP_P4_141133_85641	NW_004516089.1	Scaffold676	85641	TT	CC	1946971567
SNP_P4_141134_85646	NW_004516089.1	Scaffold676	85646	AA	TT	1946971569
SNP_P4_141135_85647	NW_004516089.1	Scaffold676	85647	CC	GG	1946971571

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_141137_85664	NW_004516089.1	Scaffold676	85664	GG	TT	1946971575
SNP_P4_141138_85717	NW_004516089.1	Scaffold676	85717	GG	AA	1946971577
SNP_P4_141139_85772	NW_004516089.1	Scaffold676	85772	AA	CC	1946971579
SNP_P4_141140_86004	NW_004516089.1	Scaffold676	86004	GG	TT	1946971580
SNP_P4_141141_86028	NW_004516089.1	Scaffold676	86028	TT	CC	1946971582
SNP_P4_141142_86404	NW_004516089.1	Scaffold676	86404	TT	CC	1946971584
SNP_P4_141143_86437	NW_004516089.1	Scaffold676	86437	CC	TT	1946971586
SNP_P4_141144_86538	NW_004516089.1	Scaffold676	86538	AA	GG	1946971588
SNP_P4_141145_86549	NW_004516089.1	Scaffold676	86549	TT	CC	1946971590
SNP_P4_141147_89389	NW_004516089.1	Scaffold676	89389	GG	AA	1946971592
SNP_P4_141148_89392	NW_004516089.1	Scaffold676	89392	GG	AA	1946971594
SNP_P4_141149_89794	NW_004516089.1	Scaffold676	89794	AA	GG	1946971596
SNP_P4_141150_89804	NW_004516089.1	Scaffold676	89804	CC	AA	1946971598
SNP_P4_141151_90214	NW_004516089.1	Scaffold676	90214	AA	GG	1946971600
SNP_P4_141152_90560	NW_004516089.1	Scaffold676	90560	AA	GG	1946971602
SNP_P4_141153_90832	NW_004516089.1	Scaffold676	90832	AA	TT	1946971604
SNP_P4_141154_91268	NW_004516089.1	Scaffold676	91268	AA	GG	1946971606
SNP_P4_141155_91456	NW_004516089.1	Scaffold676	91456	CC	AA	1946971608
SNP_P4_141156_91499	NW_004516089.1	Scaffold676	91499	AA	TT	1946971610
SNP_P4_141157_91506	NW_004516089.1	Scaffold676	91506	GG	AA	1946971612
SNP_P4_141158_91788	NW_004516089.1	Scaffold676	91788	AA	TT	1946971613
SNP_P4_141159_91822	NW_004516089.1	Scaffold676	91822	TT	AA	1946971615
SNP_P4_141160_92640	NW_004516089.1	Scaffold676	92640	AA	GG	1946971617
SNP_P4_141161_92979	NW_004516089.1	Scaffold676	92979	CC	GG	1946971619
SNP_P4_141162_93256	NW_004516089.1	Scaffold676	93256	TT	AA	1946971621
SNP_P4_141163_93307	NW_004516089.1	Scaffold676	93307	CC	TT	1946971623
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SNP_P4_141167_94066	NW_004516089.1	Scaffold676	94066	AA	GG	1946971631
SNP_P4_141168_94067	NW_004516089.1	Scaffold676	94067	AA	TT	1946971633
SNP_P4_141169_97246	NW_004516089.1	Scaffold676	97246	AA	CC	1946971635
SNP_P4_141170_99299	NW_004516089.1	Scaffold676	99299	AA	CC	1946971637
SNP_P4_141171_101053	NW_004516089.1	Scaffold676	101053	TT	CC	1946971639
SNP_P4_141172_101078	NW_004516089.1	Scaffold676	101078	CC	AA	1946971641
SNP_P4_141173_101212	NW_004516089.1	Scaffold676	101212	CC	TT	1946971643
SNP_P4_141174_101249	NW_004516089.1	Scaffold676	101249	TT	CC	1946971645
SNP_P4_141175_101282	NW_004516089.1	Scaffold676	101282	TT	CC	1946971647
SNP_P4_141176_101393	NW_004516089.1	Scaffold676	101393	GG	AA	1946971649
SNP_P4_141177_101485	NW_004516089.1	Scaffold676	101485	GG	AA	1946971651
SNP_P4_141178_101511	NW_004516089.1	Scaffold676	101511	GG	AA	1946971653

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_141180_101692	NW_004516089.1	Scaffold676	101692	TT	CC	1946971657
SNP_P4_141181_101736	NW_004516089.1	Scaffold676	101736	TT	CC	1946971659
SNP_P4_141182_102382	NW_004516089.1	Scaffold676	102382	TT	GG	1946971661
SNP_P4_141183_102470	NW_004516089.1	Scaffold676	102470	TT	CC	1946971663
SNP_P4_141184_102660	NW_004516089.1	Scaffold676	102660	CC	TT	1946971665
SNP_P4_141185_103911	NW_004516089.1	Scaffold676	103911	CC	AA	1946971667
SNP_P4_141186_103932	NW_004516089.1	Scaffold676	103932	CC	TT	1946971669
SNP_P4_141187_104086	NW_004516089.1	Scaffold676	104086	TT	GG	1946971671
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SNP_P4_141189_104286	NW_004516089.1	Scaffold676	104286	TT	CC	1946971675
SNP_P4_141190_104291	NW_004516089.1	Scaffold676	104291	AA	TT	1946971677
SNP_P4_141191_104293	NW_004516089.1	Scaffold676	104293	TT	AA	1946971679
SNP_P4_141192_104450	NW_004516089.1	Scaffold676	104450	CC	GG	1946971681
SNP_P4_141193_104548	NW_004516089.1	Scaffold676	104548	TT	CC	1946971683
SNP_P4_141194_104582	NW_004516089.1	Scaffold676	104582	CC	TT	1946971686
SNP_P4_141195_104878	NW_004516089.1	Scaffold676	104878	AA	TT	1946971688
SNP_P4_141196_105336	NW_004516089.1	Scaffold676	105336	TT	CC	1946971690
SNP_P4_141197_105557	NW_004516089.1	Scaffold676	105557	CC	TT	1946971692
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SNP_P4_141199_105871	NW_004516089.1	Scaffold676	105871	TT	GG	1946971696
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SNP_P4_141208_125442	NW_004516089.1	Scaffold676	125442	AA	GG	1946971713
SNP_P4_141209_130860	NW_004516089.1	Scaffold676	130860	CC	TT	1946971715
SNP_P4_141210_131182	NW_004516089.1	Scaffold676	131182	TT	GG	1946971717
SNP_P4_141211_134251	NW_004516089.1	Scaffold676	134251	AA	GG	1946971719
SNP_P4_141212_134278	NW_004516089.1	Scaffold676	134278	AA	CC	1946971721
SNP_P4_141213_134559	NW_004516089.1	Scaffold676	134559	CC	TT	1946971723
SNP_P4_141214_134645	NW_004516089.1	Scaffold676	134645	GG	TT	1946971725
SNP_P4_141215_135146	NW_004516089.1	Scaffold676	135146	CC	TT	1946971727
SNP_P4_141216_136738	NW_004516089.1	Scaffold676	136738	CC	AA	1946971729
SNP_P4_141217_136760	NW_004516089.1	Scaffold676	136760	TT	CC	1946971731
SNP_P4_141218_136784	NW_004516089.1	Scaffold676	136784	TT	AA	1946971733
SNP_P4_141219_137048	NW_004516089.1	Scaffold676	137048	AA	TT	1946971735
SNP_P4_141220_137053	NW_004516089.1	Scaffold676	137053	GG	TT	1946971737

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_141222_137416	NW_004516089.1	Scaffold676	137416	AA	GG	1946971741
SNP_P4_141223_144123	NW_004516089.1	Scaffold676	144123	TT	CC	1946971743
SNP_P4_141224_148602	NW_004516089.1	Scaffold676	148602	AA	GG	1946971745
SNP_P4_141225_148640	NW_004516089.1	Scaffold676	148640	AA	GG	1946971747
SNP_P4_141226_148658	NW_004516089.1	Scaffold676	148658	AA	GG	1946971749
SNP_P4_141227_149226	NW_004516089.1	Scaffold676	149226	TT	GG	1946971751
SNP_P4_141228_149236	NW_004516089.1	Scaffold676	149236	CC	AA	1946971753
SNP_P4_141229_149267	NW_004516089.1	Scaffold676	149267	AA	TT	1946971755
SNP_P4_141230_149367	NW_004516089.1	Scaffold676	149367	GG	AA	1946971757
SNP_P4_141231_149434	NW_004516089.1	Scaffold676	149434	AA	GG	1946971759
SNP_P4_141232_149468	NW_004516089.1	Scaffold676	149468	TT	AA	1946971761
SNP_P4_141233_151714	NW_004516089.1	Scaffold676	151714	AA	GG	1946971763
SNP_P4_141234_151856	NW_004516089.1	Scaffold676	151856	AA	GG	1946971765
SNP_P4_141235_151948	NW_004516089.1	Scaffold676	151948	GG	AA	1946971767
SNP_P4_141236_151998	NW_004516089.1	Scaffold676	151998	TT	CC	1946971769
SNP_P4_141237_152014	NW_004516089.1	Scaffold676	152014	TT	AA	1946971771
SNP_P4_141238_152074	NW_004516089.1	Scaffold676	152074	TT	CC	1946971773
SNP_P4_141239_157576	NW_004516089.1	Scaffold676	157576	CC	TT	1946971775
SNP_P4_141240_157676	NW_004516089.1	Scaffold676	157676	TT	CC	1946971777
SNP_P4_141241_157771	NW_004516089.1	Scaffold676	157771	CC	TT	1946971779
SNP_P4_141242_157792	NW_004516089.1	Scaffold676	157792	AA	GG	1946971781
SNP_P4_141243_157969	NW_004516089.1	Scaffold676	157969	AA	CC	1946971783
SNP_P4_141244_157999	NW_004516089.1	Scaffold676	157999	CC	GG	1946971784
SNP_P4_141245_158013	NW_004516089.1	Scaffold676	158013	CC	TT	1946971786
SNP_P4_141246_158031	NW_004516089.1	Scaffold676	158031	TT	AA	1946971788
SNP_P4_141247_158207	NW_004516089.1	Scaffold676	158207	AA	CC	1946971790
SNP_P4_141248_158274	NW_004516089.1	Scaffold676	158274	AA	GG	1946971792
SNP_P4_141249_158368	NW_004516089.1	Scaffold676	158368	CC	TT	1946971794
SNP_P4_141250_158689	NW_004516089.1	Scaffold676	158689	TT	CC	1946971796
SNP_P4_141251_158757	NW_004516089.1	Scaffold676	158757	GG	AA	1946971798
SNP_P4_141252_161846	NW_004516089.1	Scaffold676	161846	TT	CC	1946971800
SNP_P4_141254_161919	NW_004516089.1	Scaffold676	161919	CC	AA	1946971802
SNP_P4_141255_161921	NW_004516089.1	Scaffold676	161921	CC	TT	1946971804
SNP_P4_141256_161942	NW_004516089.1	Scaffold676	161942	TT	CC	1946971806
SNP_P4_141257_161954	NW_004516089.1	Scaffold676	161954	TT	AA	1946971808
SNP_P4_141258_162021	NW_004516089.1	Scaffold676	162021	GG	TT	1946971810
SNP_P4_141259_162084	NW_004516089.1	Scaffold676	162084	CC	AA	1946971812
SNP_P4_141260_162257	NW_004516089.1	Scaffold676	162257	TT	CC	1946971814
SNP_P4_141261_162291	NW_004516089.1	Scaffold676	162291	TT	AA	1946971816
SNP_P4_141262_162295	NW_004516089.1	Scaffold676	162295	CC	TT	1946971818
SNP_P4_141263_162308	NW_004516089.1	Scaffold676	162308	TT	CC	1946971820

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_141265_5659	NW_004516090.1	Scaffold677	5659	CC	TT	1946971824
SNP_P4_141266_347	NW_004516091.1	Scaffold678	347	TT	GG	1946971826
SNP_P4_141267_355	NW_004516091.1	Scaffold678	355	CC	GG	1946971828
SNP_P4_141268_383	NW_004516091.1	Scaffold678	383	CC	TT	1946971830
SNP_P4_141269_424	NW_004516091.1	Scaffold678	424	GG	TT	1946971832
SNP_P4_141270_7772	NW_004516091.1	Scaffold678	7772	AA	GG	1946971834
SNP_P4_141271_11522	NW_004516091.1	Scaffold678	11522	CC	TT	1946971836
SNP_P4_141272_11745	NW_004516091.1	Scaffold678	11745	AA	CC	1946971838
SNP_P4_141273_12414	NW_004516091.1	Scaffold678	12414	TT	AA	1946971840
SNP_P4_141274_12424	NW_004516091.1	Scaffold678	12424	GG	AA	1946971842
SNP_P4_141275_12451	NW_004516091.1	Scaffold678	12451	AA	TT	1946971844
SNP_P4_141276_12476	NW_004516091.1	Scaffold678	12476	TT	AA	1946971846
SNP_P4_141277_12493	NW_004516091.1	Scaffold678	12493	CC	AA	1946971848
SNP_P4_141278_12680	NW_004516091.1	Scaffold678	12680	GG	AA	1946971850
SNP_P4_141279_12738	NW_004516091.1	Scaffold678	12738	AA	CC	1946971852
SNP_P4_141280_12768	NW_004516091.1	Scaffold678	12768	AA	CC	1946971854
SNP_P4_141282_37893	NW_004516091.1	Scaffold678	37893	TT	CC	1946971856
SNP_P4_141283_39238	NW_004516091.1	Scaffold678	39238	TT	AA	1946971858
SNP_P4_141284_39277	NW_004516091.1	Scaffold678	39277	AA	GG	1946971860
SNP_P4_141285_39285	NW_004516091.1	Scaffold678	39285	CC	TT	1946971862
SNP_P4_141286_39415	NW_004516091.1	Scaffold678	39415	GG	AA	1946971864
SNP_P4_141287_39507	NW_004516091.1	Scaffold678	39507	AA	GG	1946971866
SNP_P4_141288_39552	NW_004516091.1	Scaffold678	39552	GG	AA	1946971868
SNP_P4_141289_39565	NW_004516091.1	Scaffold678	39565	CC	TT	1946971869
SNP_P4_141290_39571	NW_004516091.1	Scaffold678	39571	GG	AA	1946971871
SNP_P4_141291_39577	NW_004516091.1	Scaffold678	39577	CC	AA	1946971873
SNP_P4_141292_39627	NW_004516091.1	Scaffold678	39627	TT	GG	1946971875
SNP_P4_141293_39632	NW_004516091.1	Scaffold678	39632	AA	TT	1946971877
SNP_P4_141294_39643	NW_004516091.1	Scaffold678	39643	GG	TT	1946971879
SNP_P4_141295_39707	NW_004516091.1	Scaffold678	39707	GG	CC	1946971881
SNP_P4_141296_39719	NW_004516091.1	Scaffold678	39719	CC	AA	1946971883
SNP_P4_141297_39729	NW_004516091.1	Scaffold678	39729	AA	GG	1946971885
SNP_P4_141299_39858	NW_004516091.1	Scaffold678	39858	AA	GG	1946971887
SNP_P4_141300_39860	NW_004516091.1	Scaffold678	39860	CC	TT	1946971889
SNP_P4_141301_39885	NW_004516091.1	Scaffold678	39885	AA	GG	1946971891
SNP_P4_141302_39888	NW_004516091.1	Scaffold678	39888	CC	GG	1946971893
SNP_P4_141303_39933	NW_004516091.1	Scaffold678	39933	CC	TT	1946971895
SNP_P4_141304_39939	NW_004516091.1	Scaffold678	39939	CC	TT	1946971897
SNP_P4_141305_39976	NW_004516091.1	Scaffold678	39976	CC	GG	1946971899
SNP_P4_141306_40993	NW_004516091.1	Scaffold678	40993	TT	CC	1946971901
SNP_P4_141308_41024	NW_004516091.1	Scaffold678	41024	AA	CC	1946971903

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_141310_41059	NW_004516091.1	Scaffold678	41059	AA	TT	1946971907
SNP_P4_141311_41091	NW_004516091.1	Scaffold678	41091	TT	AA	1946971909
SNP_P4_141312_41215	NW_004516091.1	Scaffold678	41215	GG	CC	1946971911
SNP_P4_141313_41269	NW_004516091.1	Scaffold678	41269	AA	TT	1946971913
SNP_P4_141314_41321	NW_004516091.1	Scaffold678	41321	TT	GG	1946971915
SNP_P4_141315_41323	NW_004516091.1	Scaffold678	41323	GG	AA	1946971917
SNP_P4_141316_41361	NW_004516091.1	Scaffold678	41361	CC	AA	1946971919
SNP_P4_141317_41440	NW_004516091.1	Scaffold678	41440	CC	TT	1946971921
SNP_P4_141318_41848	NW_004516091.1	Scaffold678	41848	TT	CC	1946971923
SNP_P4_141319_42352	NW_004516091.1	Scaffold678	42352	GG	AA	1946971925
SNP_P4_141320_42356	NW_004516091.1	Scaffold678	42356	TT	AA	1946971927
SNP_P4_141321_42370	NW_004516091.1	Scaffold678	42370	CC	AA	1946971929
SNP_P4_141323_42476	NW_004516091.1	Scaffold678	42476	AA	CC	1946971931
SNP_P4_141324_42533	NW_004516091.1	Scaffold678	42533	TT	CC	1946971933
SNP_P4_141325_42696	NW_004516091.1	Scaffold678	42696	GG	AA	1946971935
SNP_P4_141326_42704	NW_004516091.1	Scaffold678	42704	TT	AA	1946971937
SNP_P4_141327_42761	NW_004516091.1	Scaffold678	42761	AA	CC	1946971939
SNP_P4_141329_60298	NW_004516091.1	Scaffold678	60298	TT	AA	1946971941
SNP_P4_141330_60690	NW_004516091.1	Scaffold678	60690	TT	GG	1946971943
SNP_P4_141331_60697	NW_004516091.1	Scaffold678	60697	GG	CC	1946971945
SNP_P4_141332_74078	NW_004516091.1	Scaffold678	74078	TT	AA	1946971947
SNP_P4_141333_74079	NW_004516091.1	Scaffold678	74079	GG	AA	1946971949
SNP_P4_141334_78222	NW_004516091.1	Scaffold678	78222	CC	GG	1946971951
SNP_P4_141336_104693	NW_004516091.1	Scaffold678	104693	TT	GG	1946971953
SNP_P4_141337_104755	NW_004516091.1	Scaffold678	104755	GG	AA	1946971955
SNP_P4_141338_110805	NW_004516091.1	Scaffold678	110805	CC	GG	1946971957
SNP_P4_141339_110924	NW_004516091.1	Scaffold678	110924	AA	GG	1946971959
SNP_P4_141340_111288	NW_004516091.1	Scaffold678	111288	TT	CC	1946971961
SNP_P4_141341_112505	NW_004516091.1	Scaffold678	112505	GG	CC	1946971963
SNP_P4_141342_112892	NW_004516091.1	Scaffold678	112892	TT	CC	1946971965
SNP_P4_141343_112904	NW_004516091.1	Scaffold678	112904	AA	GG	1946971967
SNP_P4_141344_118107	NW_004516091.1	Scaffold678	118107	CC	TT	1946971969
SNP_P4_141345_118119	NW_004516091.1	Scaffold678	118119	CC	TT	1946971971
SNP_P4_141346_119077	NW_004516091.1	Scaffold678	119077	CC	AA	1946971973
SNP_P4_141347_119614	NW_004516091.1	Scaffold678	119614	TT	AA	1946971975
SNP_P4_141348_120403	NW_004516091.1	Scaffold678	120403	GG	AA	1946971977
SNP_P4_141349_120643	NW_004516091.1	Scaffold678	120643	TT	AA	1946971979
SNP_P4_141350_11730	NW_004516093.1	Scaffold681	11730	TT	CC	1946971981
SNP_P4_141351_11748	NW_004516093.1	Scaffold681	11748	TT	CC	1946971983
SNP_P4_141353_25454	NW_004516093.1	Scaffold681	25454	CC	TT	1946971985
SNP_P4_141354_48207	NW_004516093.1	Scaffold681	48207	TT	GG	1946971987

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_141356_51604	NW_004516093.1	Scaffold681	51604	AA	GG	1946971991
SNP_P4_141357_51656	NW_004516093.1	Scaffold681	51656	TT	CC	1946971993
SNP_P4_141358_9781	NW_004516094.1	Scaffold682	9781	TT	GG	1946971995
SNP_P4_141359_11161	NW_004516094.1	Scaffold682	11161	AA	TT	1946971997
SNP_P4_141360_23654	NW_004516094.1	Scaffold682	23654	CC	TT	1946971999
SNP_P4_141362_78362	NW_004516094.1	Scaffold682	78362	GG	AA	1946972001
SNP_P4_141363_78388	NW_004516094.1	Scaffold682	78388	TT	CC	1946972003
SNP_P4_141364_78414	NW_004516094.1	Scaffold682	78414	CC	TT	1946972005
SNP_P4_141365_78444	NW_004516094.1	Scaffold682	78444	TT	CC	1946972007
SNP_P4_141366_82794	NW_004516094.1	Scaffold682	82794	CC	TT	1946972009
SNP_P4_141367_82823	NW_004516094.1	Scaffold682	82823	CC	TT	1946972011
SNP_P4_141368_82826	NW_004516094.1	Scaffold682	82826	CC	TT	1946972013
SNP_P4_141369_82838	NW_004516094.1	Scaffold682	82838	TT	GG	1946972015
SNP_P4_141370_82839	NW_004516094.1	Scaffold682	82839	AA	TT	1946972017
SNP_P4_141372_134740	NW_004516094.1	Scaffold682	134740	TT	AA	1946972019
SNP_P4_141373_136707	NW_004516094.1	Scaffold682	136707	TT	CC	1946972021
SNP_P4_141374_162085	NW_004516094.1	Scaffold682	162085	GG	AA	1946972023
SNP_P4_141376_190888	NW_004516094.1	Scaffold682	190888	CC	TT	1946972025
SNP_P4_141377_190899	NW_004516094.1	Scaffold682	190899	GG	AA	1946972027
SNP_P4_141378_190902	NW_004516094.1	Scaffold682	190902	CC	TT	1946972029
SNP_P4_141379_196750	NW_004516094.1	Scaffold682	196750	TT	AA	1946972031
SNP_P4_141380_196752	NW_004516094.1	Scaffold682	196752	AA	TT	1946972032
SNP_P4_141381_202305	NW_004516094.1	Scaffold682	202305	GG	TT	1946972033
SNP_P4_141382_208455	NW_004516094.1	Scaffold682	208455	AA	CC	1946972034
SNP_P4_141383_208847	NW_004516094.1	Scaffold682	208847	GG	AA	1946972035
SNP_P4_141384_216690	NW_004516094.1	Scaffold682	216690	AA	GG	1946972036
SNP_P4_141385_220216	NW_004516094.1	Scaffold682	220216	CC	AA	1946972037
SNP_P4_141386_220447	NW_004516094.1	Scaffold682	220447	AA	GG	1946972038
SNP_P4_141387_222232	NW_004516094.1	Scaffold682	222232	GG	AA	1946972039
SNP_P4_141388_223515	NW_004516094.1	Scaffold682	223515	AA	GG	1946972040
SNP_P4_141389_225150	NW_004516094.1	Scaffold682	225150	TT	CC	1946972042
SNP_P4_141390_232189	NW_004516094.1	Scaffold682	232189	TT	CC	1946972044
SNP_P4_141391_232219	NW_004516094.1	Scaffold682	232219	GG	TT	1946972046
SNP_P4_141392_232470	NW_004516094.1	Scaffold682	232470	AA	TT	1946972048
SNP_P4_141393_232501	NW_004516094.1	Scaffold682	232501	TT	CC	1946972050
SNP_P4_141394_232512	NW_004516094.1	Scaffold682	232512	CC	AA	1946972052
SNP_P4_141395_232603	NW_004516094.1	Scaffold682	232603	AA	GG	1946972054
SNP_P4_141396_232686	NW_004516094.1	Scaffold682	232686	CC	TT	1946972056
SNP_P4_141397_232701	NW_004516094.1	Scaffold682	232701	TT	CC	1946972058
SNP_P4_141398_239079	NW_004516094.1	Scaffold682	239079	TT	CC	1946972060
SNP_P4_141399_239113	NW_004516094.1	Scaffold682	239113	GG	CC	1946972062

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_141402_239267	NW_004516094.1	Scaffold682	239267	AA	GG	1946972066
SNP_P4_141404_239342	NW_004516094.1	Scaffold682	239342	TT	CC	1946972067
SNP_P4_141405_239441	NW_004516094.1	Scaffold682	239441	CC	AA	1946972069
SNP_P4_141406_239601	NW_004516094.1	Scaffold682	239601	GG	AA	1946972071
SNP_P4_141407_239663	NW_004516094.1	Scaffold682	239663	TT	CC	1946972073
SNP_P4_141408_240581	NW_004516094.1	Scaffold682	240581	AA	TT	1946972075
SNP_P4_141409_240628	NW_004516094.1	Scaffold682	240628	CC	TT	1946972077
SNP_P4_141410_240641	NW_004516094.1	Scaffold682	240641	CC	GG	1946972079
SNP_P4_141411_240901	NW_004516094.1	Scaffold682	240901	AA	GG	1946972081
SNP_P4_141412_240932	NW_004516094.1	Scaffold682	240932	AA	GG	1946972083
SNP_P4_141413_240943	NW_004516094.1	Scaffold682	240943	GG	AA	1946972085
SNP_P4_141414_240952	NW_004516094.1	Scaffold682	240952	TT	CC	1946972087
SNP_P4_141415_240953	NW_004516094.1	Scaffold682	240953	AA	CC	1946972089
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SNP_P4_141417_240987	NW_004516094.1	Scaffold682	240987	TT	GG	1946972093
SNP_P4_141418_240997	NW_004516094.1	Scaffold682	240997	CC	AA	1946972095
SNP_P4_141419_241058	NW_004516094.1	Scaffold682	241058	GG	AA	1946972097
SNP_P4_141420_241117	NW_004516094.1	Scaffold682	241117	TT	GG	1946972099
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SNP_P4_141422_252335	NW_004516094.1	Scaffold682	252335	AA	TT	1946972103
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SNP_P4_141425_253056	NW_004516094.1	Scaffold682	253056	TT	AA	1946972107
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SNP_P4_141427_258454	NW_004516094.1	Scaffold682	258454	AA	TT	1946972111
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SNP_P4_141429_276188	NW_004516094.1	Scaffold682	276188	AA	GG	1946972115
SNP_P4_141431_303363	NW_004516094.1	Scaffold682	303363	GG	AA	1946972117
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SNP_P4_141434_347962	NW_004516094.1	Scaffold682	347962	AA	GG	1946972123
SNP_P4_141435_347974	NW_004516094.1	Scaffold682	347974	AA	GG	1946972125
SNP_P4_141436_365422	NW_004516094.1	Scaffold682	365422	GG	AA	1946972127
SNP_P4_141437_365506	NW_004516094.1	Scaffold682	365506	AA	GG	1946972129
SNP_P4_141438_369730	NW_004516094.1	Scaffold682	369730	TT	CC	1946972131
SNP_P4_141439_369736	NW_004516094.1	Scaffold682	369736	CC	TT	1946972133
SNP_P4_141440_369740	NW_004516094.1	Scaffold682	369740	TT	CC	1946972135
SNP_P4_141441_373599	NW_004516094.1	Scaffold682	373599	CC	AA	1946972137
SNP_P4_141442_373682	NW_004516094.1	Scaffold682	373682	GG	TT	1946972139
SNP_P4_141443_373837	NW_004516094.1	Scaffold682	373837	AA	GG	1946972141
SNP_P4_141444_374974	NW_004516094.1	Scaffold682	374974	CC	TT	1946972143
SNP_P4_141445_375045	NW_004516094.1	Scaffold682	375045	GG	AA	1946972145

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_141448_376239	NW_004516094.1	Scaffold682	376239	GG	TT	1946972151
SNP_P4_141449_426564	NW_004516094.1	Scaffold682	426564	CC	TT	1946972153
SNP_P4_141450_436723	NW_004516094.1	Scaffold682	436723	TT	GG	1946972155
SNP_P4_141451_436755	NW_004516094.1	Scaffold682	436755	GG	AA	1946972157
SNP_P4_141452_436757	NW_004516094.1	Scaffold682	436757	AA	TT	1946972159
SNP_P4_141453_436759	NW_004516094.1	Scaffold682	436759	AA	TT	1946972161
SNP_P4_141454_436761	NW_004516094.1	Scaffold682	436761	AA	TT	1946972163
SNP_P4_141455_436763	NW_004516094.1	Scaffold682	436763	AA	TT	1946972165
SNP_P4_141456_436766	NW_004516094.1	Scaffold682	436766	GG	CC	1946972167
SNP_P4_141457_436771	NW_004516094.1	Scaffold682	436771	TT	GG	1946972169
SNP_P4_141458_463012	NW_004516094.1	Scaffold682	463012	AA	TT	1946972171
SNP_P4_141459_463021	NW_004516094.1	Scaffold682	463021	TT	CC	1946972173
SNP_P4_141460_463032	NW_004516094.1	Scaffold682	463032	GG	AA	1946972175
SNP_P4_141461_463042	NW_004516094.1	Scaffold682	463042	TT	CC	1946972177
SNP_P4_141462_463044	NW_004516094.1	Scaffold682	463044	CC	TT	1946972179
SNP_P4_141463_463087	NW_004516094.1	Scaffold682	463087	TT	CC	1946972181
SNP_P4_141464_463096	NW_004516094.1	Scaffold682	463096	TT	CC	1946972183
SNP_P4_141465_463108	NW_004516094.1	Scaffold682	463108	CC	TT	1946972185
SNP_P4_141466_463115	NW_004516094.1	Scaffold682	463115	AA	TT	1946972187
SNP_P4_141467_463117	NW_004516094.1	Scaffold682	463117	CC	TT	1946972189
SNP_P4_141468_463135	NW_004516094.1	Scaffold682	463135	TT	CC	1946972191
SNP_P4_141469_463145	NW_004516094.1	Scaffold682	463145	AA	TT	1946972192
SNP_P4_141470_463160	NW_004516094.1	Scaffold682	463160	AA	GG	1946972194
SNP_P4_141471_463168	NW_004516094.1	Scaffold682	463168	AA	GG	1946972196
SNP_P4_141472_463180	NW_004516094.1	Scaffold682	463180	TT	CC	1946972198
SNP_P4_141473_463189	NW_004516094.1	Scaffold682	463189	TT	CC	1946972200
SNP_P4_141474_463221	NW_004516094.1	Scaffold682	463221	AA	GG	1946972202
SNP_P4_141475_463244	NW_004516094.1	Scaffold682	463244	TT	CC	1946972204
SNP_P4_141476_463249	NW_004516094.1	Scaffold682	463249	TT	CC	1946972206
SNP_P4_141477_463261	NW_004516094.1	Scaffold682	463261	TT	AA	1946972208
SNP_P4_141478_463264	NW_004516094.1	Scaffold682	463264	GG	AA	1946972210
SNP_P4_141479_463273	NW_004516094.1	Scaffold682	463273	CC	TT	1946972212
SNP_P4_141480_468082	NW_004516094.1	Scaffold682	468082	CC	TT	1946972214
SNP_P4_141481_471346	NW_004516094.1	Scaffold682	471346	CC	TT	1946972216
SNP_P4_141482_471348	NW_004516094.1	Scaffold682	471348	AA	GG	1946972218
SNP_P4_141483_471351	NW_004516094.1	Scaffold682	471351	GG	AA	1946972220
SNP_P4_141484_482118	NW_004516094.1	Scaffold682	482118	AA	GG	1946972222
SNP_P4_141486_498044	NW_004516094.1	Scaffold682	498044	AA	TT	1946972224
SNP_P4_141487_498280	NW_004516094.1	Scaffold682	498280	AA	CC	1946972226
SNP_P4_141488_498339	NW_004516094.1	Scaffold682	498339	CC	AA	1946972228

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_141489_498344	NW_004516094.1	Scaffold682	498344	AA	CC	1946972230
SNP_P4_141490_498353	NW_004516094.1	Scaffold682	498353	TT	CC	1946972232
SNP_P4_141491_498434	NW_004516094.1	Scaffold682	498434	GG	TT	1946972234
SNP_P4_141492_498473	NW_004516094.1	Scaffold682	498473	TT	CC	1946972236
SNP_P4_141493_498546	NW_004516094.1	Scaffold682	498546	GG	AA	1946972238
SNP_P4_141495_506149	NW_004516094.1	Scaffold682	506149	CC	GG	1946972240
SNP_P4_141496_506158	NW_004516094.1	Scaffold682	506158	CC	AA	1946972242
SNP_P4_141498_514864	NW_004516094.1	Scaffold682	514864	CC	TT	1946972244
SNP_P4_141499_518826	NW_004516094.1	Scaffold682	518826	GG	TT	1946972246
SNP_P4_141500_524563	NW_004516094.1	Scaffold682	524563	AA	GG	1946972248
SNP_P4_141501_524576	NW_004516094.1	Scaffold682	524576	GG	AA	1946972250
SNP_P4_141502_525737	NW_004516094.1	Scaffold682	525737	AA	GG	1946972252
SNP_P4_141503_525769	NW_004516094.1	Scaffold682	525769	GG	AA	1946972254
SNP_P4_141504_525770	NW_004516094.1	Scaffold682	525770	AA	CC	1946972256
SNP_P4_141505_526564	NW_004516094.1	Scaffold682	526564	AA	CC	1946972258
SNP_P4_141506_526788	NW_004516094.1	Scaffold682	526788	TT	CC	1946972260
SNP_P4_141507_526846	NW_004516094.1	Scaffold682	526846	TT	GG	1946972262
SNP_P4_141508_526860	NW_004516094.1	Scaffold682	526860	GG	AA	1946972264
SNP_P4_141509_526869	NW_004516094.1	Scaffold682	526869	TT	CC	1946972266
SNP_P4_141510_526878	NW_004516094.1	Scaffold682	526878	TT	CC	1946972268
SNP_P4_141512_526903	NW_004516094.1	Scaffold682	526903	TT	GG	1946972270
SNP_P4_141513_526935	NW_004516094.1	Scaffold682	526935	GG	AA	1946972272
SNP_P4_141514_526976	NW_004516094.1	Scaffold682	526976	AA	GG	1946972274
SNP_P4_141515_527001	NW_004516094.1	Scaffold682	527001	TT	AA	1946972276
SNP_P4_141516_535897	NW_004516094.1	Scaffold682	535897	TT	CC	1946972278
SNP_P4_141517_536171	NW_004516094.1	Scaffold682	536171	TT	CC	1946972280
SNP_P4_141518_536174	NW_004516094.1	Scaffold682	536174	TT	CC	1946972282
SNP_P4_141519_536213	NW_004516094.1	Scaffold682	536213	TT	CC	1946972284
SNP_P4_141520_536244	NW_004516094.1	Scaffold682	536244	CC	TT	1946972286
SNP_P4_141521_539823	NW_004516094.1	Scaffold682	539823	GG	AA	1946972288
SNP_P4_141522_539838	NW_004516094.1	Scaffold682	539838	AA	TT	1946972290
SNP_P4_141523_539839	NW_004516094.1	Scaffold682	539839	GG	TT	1946972292
SNP_P4_141524_539849	NW_004516094.1	Scaffold682	539849	TT	CC	1946972294
SNP_P4_141526_539945	NW_004516094.1	Scaffold682	539945	GG	TT	1946972296
SNP_P4_141527_539961	NW_004516094.1	Scaffold682	539961	AA	CC	1946972298
SNP_P4_141528_539983	NW_004516094.1	Scaffold682	539983	AA	GG	1946972300
SNP_P4_141529_540018	NW_004516094.1	Scaffold682	540018	AA	GG	1946972302
SNP_P4_141530_540019	NW_004516094.1	Scaffold682	540019	TT	CC	1946972304
SNP_P4_141532_540093	NW_004516094.1	Scaffold682	540093	AA	GG	1946972306
SNP_P4_141533_540126	NW_004516094.1	Scaffold682	540126	GG	AA	1946972308
SNP_P4_141534_540141	NW_004516094.1	Scaffold682	540141	TT	CC	1946972310
SNP_P4_141535_540168	NW_004516094.1	Scaffold682	540168	CC	TT	1946972312

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_141536_540210	NW_004516094.1	Scaffold682	540210	AA	CC	1946972314
SNP_P4_141537_540221	NW_004516094.1	Scaffold682	540221	AA	GG	1946972316
SNP_P4_141538_540308	NW_004516094.1	Scaffold682	540308	AA	GG	1946972318
SNP_P4_141539_540319	NW_004516094.1	Scaffold682	540319	GG	AA	1946972320
SNP_P4_141540_540388	NW_004516094.1	Scaffold682	540388	CC	AA	1946972322
SNP_P4_141542_540476	NW_004516094.1	Scaffold682	540476	TT	GG	1946972324
SNP_P4_141543_540483	NW_004516094.1	Scaffold682	540483	TT	AA	1946972326
SNP_P4_141544_540491	NW_004516094.1	Scaffold682	540491	GG	AA	1946972328
SNP_P4_141545_540569	NW_004516094.1	Scaffold682	540569	GG	TT	1946972330
SNP_P4_141546_540587	NW_004516094.1	Scaffold682	540587	TT	CC	1946972332
SNP_P4_141548_540634	NW_004516094.1	Scaffold682	540634	TT	AA	1946972334
SNP_P4_141550_540815	NW_004516094.1	Scaffold682	540815	TT	CC	1946972336
SNP_P4_141551_540841	NW_004516094.1	Scaffold682	540841	TT	GG	1946972338
SNP_P4_141553_540851	NW_004516094.1	Scaffold682	540851	AA	GG	1946972340
SNP_P4_141554_540864	NW_004516094.1	Scaffold682	540864	GG	AA	1946972342
SNP_P4_141555_540897	NW_004516094.1	Scaffold682	540897	GG	AA	1946972344
SNP_P4_141556_540920	NW_004516094.1	Scaffold682	540920	TT	GG	1946972346
SNP_P4_141558_541079	NW_004516094.1	Scaffold682	541079	AA	GG	1946972348
SNP_P4_141559_541112	NW_004516094.1	Scaffold682	541112	AA	TT	1946972350
SNP_P4_141560_541114	NW_004516094.1	Scaffold682	541114	TT	CC	1946972352
SNP_P4_141561_541153	NW_004516094.1	Scaffold682	541153	GG	AA	1946972354
SNP_P4_141562_541187	NW_004516094.1	Scaffold682	541187	TT	CC	1946972356
SNP_P4_141563_541213	NW_004516094.1	Scaffold682	541213	CC	TT	1946972358
SNP_P4_141564_541270	NW_004516094.1	Scaffold682	541270	TT	AA	1946972360
SNP_P4_141565_541362	NW_004516094.1	Scaffold682	541362	GG	CC	1946972362
SNP_P4_141566_541439	NW_004516094.1	Scaffold682	541439	AA	TT	1946972364
SNP_P4_141567_541441	NW_004516094.1	Scaffold682	541441	AA	CC	1946972366
SNP_P4_141568_541473	NW_004516094.1	Scaffold682	541473	GG	AA	1946972368
SNP_P4_141569_541499	NW_004516094.1	Scaffold682	541499	GG	AA	1946972370
SNP_P4_141570_541505	NW_004516094.1	Scaffold682	541505	TT	GG	1946972372
SNP_P4_141571_541532	NW_004516094.1	Scaffold682	541532	CC	TT	1946972374
SNP_P4_141572_541556	NW_004516094.1	Scaffold682	541556	AA	CC	1946972376
SNP_P4_141573_541591	NW_004516094.1	Scaffold682	541591	TT	AA	1946972378
SNP_P4_141575_541624	NW_004516094.1	Scaffold682	541624	GG	AA	1946972380
SNP_P4_141576_541629	NW_004516094.1	Scaffold682	541629	AA	CC	1946972382
SNP_P4_141577_541678	NW_004516094.1	Scaffold682	541678	AA	GG	1946972384
SNP_P4_141578_541684	NW_004516094.1	Scaffold682	541684	GG	CC	1946972386
SNP_P4_141579_541696	NW_004516094.1	Scaffold682	541696	GG	AA	1946972388
SNP_P4_141580_541712	NW_004516094.1	Scaffold682	541712	GG	CC	1946972390
SNP_P4_141581_541840	NW_004516094.1	Scaffold682	541840	GG	AA	1946972392
SNP_P4_141582_541912	NW_004516094.1	Scaffold682	541912	CC	GG	1946972394
SNP_P4_141583_541994	NW_004516094.1	Scaffold682	541994	TT	AA	1946972396

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_141585_542039	NW_004516094.1	Scaffold682	542039	GG	AA	1946972400
SNP_P4_141586_553590	NW_004516094.1	Scaffold682	553590	TT	GG	1946972402
SNP_P4_141587_553591	NW_004516094.1	Scaffold682	553591	AA	TT	1946972404
SNP_P4_141588_565525	NW_004516094.1	Scaffold682	565525	AA	GG	1946972406
SNP_P4_141589_565542	NW_004516094.1	Scaffold682	565542	AA	TT	1946972408
SNP_P4_141590_565544	NW_004516094.1	Scaffold682	565544	TT	CC	1946972410
SNP_P4_141591_565587	NW_004516094.1	Scaffold682	565587	GG	AA	1946972412
SNP_P4_141592_565593	NW_004516094.1	Scaffold682	565593	AA	GG	1946972414
SNP_P4_141593_565595	NW_004516094.1	Scaffold682	565595	AA	GG	1946972416
SNP_P4_141594_568322	NW_004516094.1	Scaffold682	568322	CC	GG	1946972418
SNP_P4_141595_579793	NW_004516094.1	Scaffold682	579793	CC	AA	1946972420
SNP_P4_141596_579804	NW_004516094.1	Scaffold682	579804	TT	CC	1946972422
SNP_P4_141597_580013	NW_004516094.1	Scaffold682	580013	TT	AA	1946972424
SNP_P4_141598_580665	NW_004516094.1	Scaffold682	580665	TT	CC	1946972426
SNP_P4_141599_580678	NW_004516094.1	Scaffold682	580678	TT	CC	1946972428
SNP_P4_141600_580814	NW_004516094.1	Scaffold682	580814	CC	TT	1946972430
SNP_P4_141601_581413	NW_004516094.1	Scaffold682	581413	CC	TT	1946972432
SNP_P4_141602_712	NW_004516095.1	Scaffold683	712	GG	CC	1946972434
SNP_P4_141603_815	NW_004516095.1	Scaffold683	815	CC	GG	1946972436
SNP_P4_141604_901	NW_004516095.1	Scaffold683	901	AA	CC	1946972438
SNP_P4_141605_903	NW_004516095.1	Scaffold683	903	GG	AA	1946972440
SNP_P4_141606_2870	NW_004516095.1	Scaffold683	2870	GG	TT	1946972442
SNP_P4_141608_15561	NW_004516095.1	Scaffold683	15561	CC	AA	1946972444
SNP_P4_141609_15727	NW_004516095.1	Scaffold683	15727	CC	TT	1946972446
SNP_P4_141610_15737	NW_004516095.1	Scaffold683	15737	TT	CC	1946972448
SNP_P4_141611_15758	NW_004516095.1	Scaffold683	15758	CC	AA	1946972450
SNP_P4_141612_15985	NW_004516095.1	Scaffold683	15985	AA	TT	1946972452
SNP_P4_141613_16063	NW_004516095.1	Scaffold683	16063	TT	AA	1946972454
SNP_P4_141614_19484	NW_004516095.1	Scaffold683	19484	CC	TT	1946972456
SNP_P4_141615_19498	NW_004516095.1	Scaffold683	19498	GG	TT	1946972458
SNP_P4_141616_19502	NW_004516095.1	Scaffold683	19502	TT	CC	1946972460
SNP_P4_141617_19725	NW_004516095.1	Scaffold683	19725	AA	CC	1946972462
SNP_P4_141618_19794	NW_004516095.1	Scaffold683	19794	TT	AA	1946972464
SNP_P4_141619_20404	NW_004516095.1	Scaffold683	20404	TT	CC	1946972466
SNP_P4_141620_20409	NW_004516095.1	Scaffold683	20409	AA	CC	1946972468
SNP_P4_141621_20479	NW_004516095.1	Scaffold683	20479	GG	AA	1946972470
SNP_P4_141622_20501	NW_004516095.1	Scaffold683	20501	TT	CC	1946972472
SNP_P4_141623_20505	NW_004516095.1	Scaffold683	20505	TT	GG	1946972474
SNP_P4_141624_20536	NW_004516095.1	Scaffold683	20536	TT	GG	1946972476
SNP_P4_141625_20543	NW_004516095.1	Scaffold683	20543	CC	GG	1946972478
SNP_P4_141626_20566	NW_004516095.1	Scaffold683	20566	TT	CC	1946972480

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_141628_20617	NW_004516095.1	Scaffold683	20617	AA	CC	1946972484
SNP_P4_141629_20651	NW_004516095.1	Scaffold683	20651	GG	TT	1946972486
SNP_P4_141630_20673	NW_004516095.1	Scaffold683	20673	TT	AA	1946972488
SNP_P4_141632_20705	NW_004516095.1	Scaffold683	20705	CC	GG	1946972490
SNP_P4_141633_20739	NW_004516095.1	Scaffold683	20739	AA	TT	1946972492
SNP_P4_141634_20781	NW_004516095.1	Scaffold683	20781	AA	GG	1946972494
SNP_P4_141635_20812	NW_004516095.1	Scaffold683	20812	TT	GG	1946972496
SNP_P4_141636_20817	NW_004516095.1	Scaffold683	20817	TT	CC	1946972498
SNP_P4_141637_20943	NW_004516095.1	Scaffold683	20943	GG	TT	1946972500
SNP_P4_141638_20958	NW_004516095.1	Scaffold683	20958	CC	TT	1946972502
SNP_P4_141639_21010	NW_004516095.1	Scaffold683	21010	TT	CC	1946972504
SNP_P4_141640_25036	NW_004516095.1	Scaffold683	25036	TT	AA	1946972506
SNP_P4_141641_25188	NW_004516095.1	Scaffold683	25188	GG	TT	1946972508
SNP_P4_141642_25230	NW_004516095.1	Scaffold683	25230	TT	GG	1946972510
SNP_P4_141643_25350	NW_004516095.1	Scaffold683	25350	AA	TT	1946972512
SNP_P4_141644_25440	NW_004516095.1	Scaffold683	25440	CC	AA	1946972514
SNP_P4_141646_25467	NW_004516095.1	Scaffold683	25467	CC	TT	1946972516
SNP_P4_141647_25472	NW_004516095.1	Scaffold683	25472	GG	AA	1946972518
SNP_P4_141648_25512	NW_004516095.1	Scaffold683	25512	TT	GG	1946972520
SNP_P4_141649_25514	NW_004516095.1	Scaffold683	25514	TT	CC	1946972522
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SNP_P4_141656_26194	NW_004516095.1	Scaffold683	26194	TT	GG	1946972536
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SNP_P4_141658_26203	NW_004516095.1	Scaffold683	26203	AA	GG	1946972540
SNP_P4_141659_26204	NW_004516095.1	Scaffold683	26204	CC	AA	1946972542
SNP_P4_141660_26247	NW_004516095.1	Scaffold683	26247	TT	AA	1946972544
SNP_P4_141661_4686	NW_004516096.1	Scaffold684	4686	AA	GG	1946972546
SNP_P4_141662_4704	NW_004516096.1	Scaffold684	4704	AA	GG	1946972548
SNP_P4_141663_4713	NW_004516096.1	Scaffold684	4713	GG	AA	1946972549
SNP_P4_141664_4877	NW_004516096.1	Scaffold684	4877	CC	TT	1946972550
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SNP_P4_141666_4940	NW_004516096.1	Scaffold684	4940	GG	AA	1946972552
SNP_P4_141667_4944	NW_004516096.1	Scaffold684	4944	AA	GG	1946972554
SNP_P4_141668_4949	NW_004516096.1	Scaffold684	4949	AA	GG	1946972556
SNP_P4_141669_4951	NW_004516096.1	Scaffold684	4951	GG	AA	1946972558
SNP_P4_141670_4964	NW_004516096.1	Scaffold684	4964	GG	AA	1946972560

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_141672_5008	NW_004516096.1	Scaffold684	5008	CC	AA	1946972564
SNP_P4_141673_5509	NW_004516096.1	Scaffold684	5509	AA	GG	1946972566
SNP_P4_141674_6577	NW_004516096.1	Scaffold684	6577	GG	AA	1946972568
SNP_P4_141675_6612	NW_004516096.1	Scaffold684	6612	CC	AA	1946972570
SNP_P4_141676_6904	NW_004516096.1	Scaffold684	6904	TT	CC	1946972572
SNP_P4_141677_6954	NW_004516096.1	Scaffold684	6954	GG	AA	1946972574
SNP_P4_141678_7050	NW_004516096.1	Scaffold684	7050	AA	GG	1946972576
SNP_P4_141679_16346	NW_004516096.1	Scaffold684	16346	CC	GG	1946972579
SNP_P4_141681_41338	NW_004516096.1	Scaffold684	41338	AA	GG	1946972581
SNP_P4_141682_48352	NW_004516096.1	Scaffold684	48352	CC	GG	1946972583
SNP_P4_141683_48386	NW_004516096.1	Scaffold684	48386	TT	GG	1946972585
SNP_P4_141684_48412	NW_004516096.1	Scaffold684	48412	TT	CC	1946972587
SNP_P4_141685_48419	NW_004516096.1	Scaffold684	48419	TT	CC	1946972589
SNP_P4_141686_62515	NW_004516096.1	Scaffold684	62515	GG	AA	1946972591
SNP_P4_141687_62712	NW_004516096.1	Scaffold684	62712	CC	AA	1946972593
SNP_P4_141688_62727	NW_004516096.1	Scaffold684	62727	TT	CC	1946972595
SNP_P4_141689_67814	NW_004516096.1	Scaffold684	67814	AA	GG	1946972597
SNP_P4_141690_72115	NW_004516096.1	Scaffold684	72115	CC	TT	1946972599
SNP_P4_141691_72172	NW_004516096.1	Scaffold684	72172	TT	CC	1946972601
SNP_P4_141692_75464	NW_004516096.1	Scaffold684	75464	GG	AA	1946972603
SNP_P4_141693_75474	NW_004516096.1	Scaffold684	75474	GG	AA	1946972605
SNP_P4_141694_75520	NW_004516096.1	Scaffold684	75520	AA	TT	1946972607
SNP_P4_141695_75529	NW_004516096.1	Scaffold684	75529	GG	TT	1946972609
SNP_P4_141696_79000	NW_004516096.1	Scaffold684	79000	TT	CC	1946972611
SNP_P4_141697_79027	NW_004516096.1	Scaffold684	79027	TT	CC	1946972613
SNP_P4_141698_80910	NW_004516096.1	Scaffold684	80910	AA	GG	1946972615
SNP_P4_141699_94438	NW_004516096.1	Scaffold684	94438	TT	CC	1946972617
SNP_P4_141700_64	NW_004516098.1	Scaffold686	64	CC	TT	1946972619
SNP_P4_141701_81	NW_004516098.1	Scaffold686	81	GG	AA	1946972621
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SNP_P4_141704_618	NW_004516098.1	Scaffold686	618	TT	AA	1946972627
SNP_P4_141705_740	NW_004516098.1	Scaffold686	740	TT	AA	1946972629
SNP_P4_141706_751	NW_004516098.1	Scaffold686	751	CC	TT	1946972631
SNP_P4_141707_769	NW_004516098.1	Scaffold686	769	AA	CC	1946972633
SNP_P4_141708_772	NW_004516098.1	Scaffold686	772	AA	TT	1946972635
SNP_P4_141709_783	NW_004516098.1	Scaffold686	783	AA	GG	1946972637
SNP_P4_141710_789	NW_004516098.1	Scaffold686	789	CC	TT	1946972639
SNP_P4_141711_25746	NW_004516098.1	Scaffold686	25746	CC	GG	1946972641
SNP_P4_141712_41594	NW_004516098.1	Scaffold686	41594	GG	TT	1946972643
SNP_P4_141713_48351	NW_004516098.1	Scaffold686	48351	CC	AA	1946972645

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_141715_60020	NW_004516098.1	Scaffold686	60020	TT	CC	1946972649
SNP_P4_141716_60025	NW_004516098.1	Scaffold686	60025	CC	TT	1946972651
SNP_P4_141717_60345	NW_004516098.1	Scaffold686	60345	AA	TT	1946972653
SNP_P4_141718_71394	NW_004516098.1	Scaffold686	71394	TT	CC	1946972655
SNP_P4_141720_85517	NW_004516098.1	Scaffold686	85517	TT	CC	1946972657
SNP_P4_141721_85529	NW_004516098.1	Scaffold686	85529	AA	CC	1946972659
SNP_P4_141722_85596	NW_004516098.1	Scaffold686	85596	AA	CC	1946972661
SNP_P4_141723_85717	NW_004516098.1	Scaffold686	85717	AA	TT	1946972662
SNP_P4_141724_85725	NW_004516098.1	Scaffold686	85725	CC	TT	1946972664
SNP_P4_141725_86022	NW_004516098.1	Scaffold686	86022	GG	AA	1946972666
SNP_P4_141726_86049	NW_004516098.1	Scaffold686	86049	CC	TT	1946972668
SNP_P4_141727_89609	NW_004516098.1	Scaffold686	89609	TT	CC	1946972670
SNP_P4_141728_90562	NW_004516098.1	Scaffold686	90562	TT	GG	1946972672
SNP_P4_141729_90577	NW_004516098.1	Scaffold686	90577	TT	CC	1946972674
SNP_P4_141730_90582	NW_004516098.1	Scaffold686	90582	AA	GG	1946972676
SNP_P4_141731_90611	NW_004516098.1	Scaffold686	90611	TT	CC	1946972678
SNP_P4_141732_90729	NW_004516098.1	Scaffold686	90729	GG	TT	1946972680
SNP_P4_141733_90736	NW_004516098.1	Scaffold686	90736	TT	CC	1946972682
SNP_P4_141734_90755	NW_004516098.1	Scaffold686	90755	AA	GG	1946972684
SNP_P4_141735_90955	NW_004516098.1	Scaffold686	90955	TT	GG	1946972686
SNP_P4_141736_90971	NW_004516098.1	Scaffold686	90971	GG	AA	1946972688
SNP_P4_141737_91037	NW_004516098.1	Scaffold686	91037	GG	AA	1946972690
SNP_P4_141738_91044	NW_004516098.1	Scaffold686	91044	GG	CC	1946972692
SNP_P4_141739_91078	NW_004516098.1	Scaffold686	91078	TT	AA	1946972694
SNP_P4_141741_97553	NW_004516098.1	Scaffold686	97553	GG	AA	1946972696
SNP_P4_141742_104083	NW_004516098.1	Scaffold686	104083	GG	TT	1946972698
SNP_P4_141743_104993	NW_004516098.1	Scaffold686	104993	GG	TT	1946972700
SNP_P4_141745_107876	NW_004516098.1	Scaffold686	107876	AA	TT	1946972702
SNP_P4_141746_107885	NW_004516098.1	Scaffold686	107885	CC	AA	1946972704
SNP_P4_141747_107896	NW_004516098.1	Scaffold686	107896	CC	AA	1946972706
SNP_P4_141748_108353	NW_004516098.1	Scaffold686	108353	CC	TT	1946972708
SNP_P4_141749_108924	NW_004516098.1	Scaffold686	108924	AA	TT	1946972710
SNP_P4_141751_109194	NW_004516098.1	Scaffold686	109194	TT	GG	1946972712
SNP_P4_141752_111861	NW_004516098.1	Scaffold686	111861	TT	CC	1946972714
SNP_P4_141753_111864	NW_004516098.1	Scaffold686	111864	GG	AA	1946972716
SNP_P4_141754_111876	NW_004516098.1	Scaffold686	111876	CC	TT	1946972718
SNP_P4_141755_111936	NW_004516098.1	Scaffold686	111936	GG	AA	1946972720
SNP_P4_141756_112014	NW_004516098.1	Scaffold686	112014	CC	TT	1946972722
SNP_P4_141757_112330	NW_004516098.1	Scaffold686	112330	CC	TT	1946972724
SNP_P4_141758_112348	NW_004516098.1	Scaffold686	112348	TT	CC	1946972726
SNP_P4_141759_112381	NW_004516098.1	Scaffold686	112381	GG	AA	1946972728

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_141761_112398	NW_004516098.1	Scaffold686	112398	AA	GG	1946972732
SNP_P4_141762_112411	NW_004516098.1	Scaffold686	112411	TT	CC	1946972734
SNP_P4_141763_112413	NW_004516098.1	Scaffold686	112413	GG	AA	1946972736
SNP_P4_141764_113800	NW_004516098.1	Scaffold686	113800	TT	AA	1946972738
SNP_P4_141765_116178	NW_004516098.1	Scaffold686	116178	TT	AA	1946972740
SNP_P4_141766_132145	NW_004516098.1	Scaffold686	132145	TT	CC	1946972742
SNP_P4_141768_177548	NW_004516098.1	Scaffold686	177548	GG	TT	1946972744
SNP_P4_141769_177848	NW_004516098.1	Scaffold686	177848	CC	TT	1946972746
SNP_P4_141770_177896	NW_004516098.1	Scaffold686	177896	AA	GG	1946972748
SNP_P4_141771_178029	NW_004516098.1	Scaffold686	178029	CC	TT	1946972750
SNP_P4_141773_180855	NW_004516098.1	Scaffold686	180855	AA	TT	1946972752
SNP_P4_141774_181407	NW_004516098.1	Scaffold686	181407	AA	GG	1946972754
SNP_P4_141775_182141	NW_004516098.1	Scaffold686	182141	CC	TT	1946972756
SNP_P4_141776_182167	NW_004516098.1	Scaffold686	182167	TT	AA	1946972758
SNP_P4_141778_183542	NW_004516098.1	Scaffold686	183542	TT	CC	1946972760
SNP_P4_141779_183720	NW_004516098.1	Scaffold686	183720	GG	TT	1946972762
SNP_P4_141781_184111	NW_004516098.1	Scaffold686	184111	TT	AA	1946972764
SNP_P4_141782_184179	NW_004516098.1	Scaffold686	184179	GG	AA	1946972766
SNP_P4_141783_185855	NW_004516098.1	Scaffold686	185855	TT	CC	1946972768
SNP_P4_141784_186124	NW_004516098.1	Scaffold686	186124	GG	CC	1946972770
SNP_P4_141785_186280	NW_004516098.1	Scaffold686	186280	TT	GG	1946972772
SNP_P4_141786_186427	NW_004516098.1	Scaffold686	186427	CC	TT	1946972774
SNP_P4_141787_186482	NW_004516098.1	Scaffold686	186482	GG	TT	1946972776
SNP_P4_141789_204721	NW_004516098.1	Scaffold686	204721	AA	CC	1946972778
SNP_P4_141790_205190	NW_004516098.1	Scaffold686	205190	AA	GG	1946972780
SNP_P4_141791_211168	NW_004516098.1	Scaffold686	211168	TT	CC	1946972782
SNP_P4_141792_211231	NW_004516098.1	Scaffold686	211231	GG	AA	1946972784
SNP_P4_141793_212763	NW_004516098.1	Scaffold686	212763	GG	AA	1946972786
SNP_P4_141794_215918	NW_004516098.1	Scaffold686	215918	GG	AA	1946972788
SNP_P4_141795_215924	NW_004516098.1	Scaffold686	215924	AA	GG	1946972790
SNP_P4_141796_216016	NW_004516098.1	Scaffold686	216016	AA	GG	1946972792
SNP_P4_141797_216040	NW_004516098.1	Scaffold686	216040	CC	TT	1946972794
SNP_P4_141798_216049	NW_004516098.1	Scaffold686	216049	TT	CC	1946972796
SNP_P4_141799_216054	NW_004516098.1	Scaffold686	216054	GG	AA	1946972798
SNP_P4_141800_216069	NW_004516098.1	Scaffold686	216069	AA	GG	1946972800
SNP_P4_141801_216094	NW_004516098.1	Scaffold686	216094	CC	TT	1946972802
SNP_P4_141802_216099	NW_004516098.1	Scaffold686	216099	TT	CC	1946972804
SNP_P4_141803_216105	NW_004516098.1	Scaffold686	216105	TT	CC	1946972806
SNP_P4_141804_216106	NW_004516098.1	Scaffold686	216106	GG	AA	1946972808
SNP_P4_141805_216111	NW_004516098.1	Scaffold686	216111	GG	CC	1946972810
SNP_P4_141806_216121	NW_004516098.1	Scaffold686	216121	AA	GG	1946972812

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_141808_216139	NW_004516098.1	Scaffold686	216139	GG	AA	1946972816
SNP_P4_141809_216177	NW_004516098.1	Scaffold686	216177	AA	GG	1946972818
SNP_P4_141810_216179	NW_004516098.1	Scaffold686	216179	GG	TT	1946972820
SNP_P4_141811_216180	NW_004516098.1	Scaffold686	216180	AA	TT	1946972822
SNP_P4_141812_216202	NW_004516098.1	Scaffold686	216202	TT	AA	1946972824
SNP_P4_141813_216231	NW_004516098.1	Scaffold686	216231	AA	GG	1946972826
SNP_P4_141814_216241	NW_004516098.1	Scaffold686	216241	AA	GG	1946972828
SNP_P4_141815_216244	NW_004516098.1	Scaffold686	216244	CC	TT	1946972830
SNP_P4_141816_216247	NW_004516098.1	Scaffold686	216247	AA	CC	1946972832
SNP_P4_141817_216271	NW_004516098.1	Scaffold686	216271	CC	TT	1946972834
SNP_P4_141818_216273	NW_004516098.1	Scaffold686	216273	TT	CC	1946972836
SNP_P4_141819_216275	NW_004516098.1	Scaffold686	216275	CC	AA	1946972838
SNP_P4_141820_219343	NW_004516098.1	Scaffold686	219343	CC	TT	1946972840
SNP_P4_141821_223425	NW_004516098.1	Scaffold686	223425	CC	TT	1946972842
SNP_P4_141822_223469	NW_004516098.1	Scaffold686	223469	AA	TT	1946972844
SNP_P4_141823_223731	NW_004516098.1	Scaffold686	223731	AA	TT	1946972846
SNP_P4_141824_223750	NW_004516098.1	Scaffold686	223750	TT	GG	1946972848
SNP_P4_141825_223753	NW_004516098.1	Scaffold686	223753	AA	GG	1946972850
SNP_P4_141826_223773	NW_004516098.1	Scaffold686	223773	CC	TT	1946972852
SNP_P4_141827_223790	NW_004516098.1	Scaffold686	223790	GG	TT	1946972854
SNP_P4_141828_223801	NW_004516098.1	Scaffold686	223801	CC	TT	1946972856
SNP_P4_141829_223813	NW_004516098.1	Scaffold686	223813	TT	CC	1946972858
SNP_P4_141831_226626	NW_004516098.1	Scaffold686	226626	TT	CC	1946972860
SNP_P4_141832_226639	NW_004516098.1	Scaffold686	226639	AA	TT	1946972862
SNP_P4_141833_226652	NW_004516098.1	Scaffold686	226652	CC	TT	1946972864
SNP_P4_141834_229622	NW_004516098.1	Scaffold686	229622	CC	TT	1946972866
SNP_P4_141835_229628	NW_004516098.1	Scaffold686	229628	AA	GG	1946972868
SNP_P4_141836_229652	NW_004516098.1	Scaffold686	229652	TT	CC	1946972870
SNP_P4_141838_259411	NW_004516098.1	Scaffold686	259411	TT	CC	1946972872
SNP_P4_141839_270478	NW_004516098.1	Scaffold686	270478	AA	GG	1946972874
SNP_P4_141840_278833	NW_004516098.1	Scaffold686	278833	TT	AA	1946972876
SNP_P4_141841_1548	NW_004516099.1	Scaffold688	1548	CC	AA	1946972878
SNP_P4_141842_1549	NW_004516099.1	Scaffold688	1549	AA	TT	1946972880
SNP_P4_141843_1961	NW_004516099.1	Scaffold688	1961	AA	CC	1946972882
SNP_P4_141844_2343	NW_004516099.1	Scaffold688	2343	GG	AA	1946972884
SNP_P4_141846_2434	NW_004516099.1	Scaffold688	2434	GG	TT	1946972885
SNP_P4_141847_2605	NW_004516099.1	Scaffold688	2605	CC	GG	1946972887
SNP_P4_141848_2646	NW_004516099.1	Scaffold688	2646	AA	TT	1946972889
SNP_P4_141849_2678	NW_004516099.1	Scaffold688	2678	AA	TT	1946972891
SNP_P4_141850_2732	NW_004516099.1	Scaffold688	2732	AA	GG	1946972893
SNP_P4_141851_2967	NW_004516099.1	Scaffold688	2967	GG	AA	1946972895

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_141853_3058	NW_004516099.1	Scaffold688	3058	CC	GG	1946972899
SNP_P4_141854_3071	NW_004516099.1	Scaffold688	3071	TT	AA	1946972901
SNP_P4_141855_1670	NW_004516101.1	Scaffold690	1670	TT	CC	1946972903
SNP_P4_141856_4384	NW_004516101.1	Scaffold690	4384	AA	TT	1946972905
SNP_P4_141857_6581	NW_004516101.1	Scaffold690	6581	AA	CC	1946972907
SNP_P4_141858_17198	NW_004516102.1	Scaffold692	17198	AA	GG	1946972909
SNP_P4_141859_17261	NW_004516102.1	Scaffold692	17261	TT	GG	1946972911
SNP_P4_141860_50539	NW_004516102.1	Scaffold692	50539	CC	TT	1946972913
SNP_P4_141861_50639	NW_004516102.1	Scaffold692	50639	AA	TT	1946972915
SNP_P4_141862_50669	NW_004516102.1	Scaffold692	50669	TT	CC	1946972917
SNP_P4_141863_50821	NW_004516102.1	Scaffold692	50821	AA	CC	1946972919
SNP_P4_141864_50839	NW_004516102.1	Scaffold692	50839	AA	TT	1946972921
SNP_P4_141866_68902	NW_004516102.1	Scaffold692	68902	GG	AA	1946972923
SNP_P4_141867_188	NW_004516103.1	Scaffold693	188	TT	CC	1946972925
SNP_P4_141868_410	NW_004516103.1	Scaffold693	410	TT	CC	1946972927
SNP_P4_141869_411	NW_004516103.1	Scaffold693	411	TT	CC	1946972929
SNP_P4_141870_52	NW_004516104.1	Scaffold694	52	CC	TT	1946972931
SNP_P4_141871_62	NW_004516104.1	Scaffold694	62	TT	GG	1946972933
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SNP_P4_141873_125	NW_004516104.1	Scaffold694	125	GG	AA	1946972937
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SNP_P4_141875_305	NW_004516104.1	Scaffold694	305	AA	TT	1946972941
SNP_P4_141876_307	NW_004516104.1	Scaffold694	307	TT	CC	1946972943
SNP_P4_141877_312	NW_004516104.1	Scaffold694	312	CC	TT	1946972945
SNP_P4_141878_338	NW_004516104.1	Scaffold694	338	GG	AA	1946972947
SNP_P4_141879_401	NW_004516104.1	Scaffold694	401	GG	AA	1946972949
SNP_P4_141880_405	NW_004516104.1	Scaffold694	405	TT	CC	1946972951
SNP_P4_141881_415	NW_004516104.1	Scaffold694	415	AA	GG	1946972953
SNP_P4_141882_420	NW_004516104.1	Scaffold694	420	TT	CC	1946972955
SNP_P4_141883_438	NW_004516104.1	Scaffold694	438	GG	CC	1946972957
SNP_P4_141884_454	NW_004516104.1	Scaffold694	454	TT	CC	1946972959
SNP_P4_141885_501	NW_004516104.1	Scaffold694	501	TT	GG	1946972961
SNP_P4_141886_505	NW_004516104.1	Scaffold694	505	AA	GG	1946972963
SNP_P4_141887_827	NW_004516104.1	Scaffold694	827	GG	TT	1946972965
SNP_P4_141888_1016	NW_004516104.1	Scaffold694	1016	CC	AA	1946972967
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SNP_P4_141891_1247	NW_004516104.1	Scaffold694	1247	TT	CC	1946972973
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SNP_P4_141893_1572	NW_004516104.1	Scaffold694	1572	TT	CC	1946972977
SNP_P4_141894_1706	NW_004516104.1	Scaffold694	1706	CC	TT	1946972979

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_141895_2038	NW_004516104.1	Scaffold694	2038	TT	CC	1946972981
SNP_P4_141896_2086	NW_004516104.1	Scaffold694	2086	CC	TT	1946972983
SNP_P4_141897_4637	NW_004516104.1	Scaffold694	4637	GG	AA	1946972985
SNP_P4_141898_4674	NW_004516104.1	Scaffold694	4674	TT	CC	1946972987
SNP_P4_141899_4682	NW_004516104.1	Scaffold694	4682	TT	AA	1946972989
SNP_P4_141900_4749	NW_004516104.1	Scaffold694	4749	GG	TT	1946972991
SNP_P4_141901_4865	NW_004516104.1	Scaffold694	4865	AA	GG	1946972993
SNP_P4_141902_6794	NW_004516104.1	Scaffold694	6794	CC	TT	1946972995
SNP_P4_141903_6795	NW_004516104.1	Scaffold694	6795	AA	GG	1946972997
SNP_P4_141904_6804	NW_004516104.1	Scaffold694	6804	TT	GG	1946972999
SNP_P4_141905_6841	NW_004516104.1	Scaffold694	6841	CC	TT	1946973001
SNP_P4_141906_7102	NW_004516104.1	Scaffold694	7102	AA	CC	1946973003
SNP_P4_141907_7233	NW_004516104.1	Scaffold694	7233	TT	CC	1946973005
SNP_P4_141908_7392	NW_004516104.1	Scaffold694	7392	AA	TT	1946973007
SNP_P4_141909_7397	NW_004516104.1	Scaffold694	7397	GG	AA	1946973009
SNP_P4_141910_7415	NW_004516104.1	Scaffold694	7415	CC	TT	1946973011
SNP_P4_141911_7451	NW_004516104.1	Scaffold694	7451	GG	AA	1946973013
SNP_P4_141912_7470	NW_004516104.1	Scaffold694	7470	TT	CC	1946973015
SNP_P4_141913_7550	NW_004516104.1	Scaffold694	7550	AA	CC	1946973017
SNP_P4_141914_7582	NW_004516104.1	Scaffold694	7582	AA	GG	1946973019
SNP_P4_141915_7660	NW_004516104.1	Scaffold694	7660	TT	CC	1946973021
SNP_P4_141916_7684	NW_004516104.1	Scaffold694	7684	AA	GG	1946973023
SNP_P4_141917_7698	NW_004516104.1	Scaffold694	7698	TT	CC	1946973025
SNP_P4_141918_7714	NW_004516104.1	Scaffold694	7714	CC	TT	1946973027
SNP_P4_141919_7727	NW_004516104.1	Scaffold694	7727	CC	TT	1946973029
SNP_P4_141920_7761	NW_004516104.1	Scaffold694	7761	GG	CC	1946973031
SNP_P4_141921_7783	NW_004516104.1	Scaffold694	7783	TT	GG	1946973033
SNP_P4_141922_7842	NW_004516104.1	Scaffold694	7842	GG	TT	1946973035
SNP_P4_141923_7846	NW_004516104.1	Scaffold694	7846	GG	AA	1946973037
SNP_P4_141924_7869	NW_004516104.1	Scaffold694	7869	CC	AA	1946973039
SNP_P4_141925_7964	NW_004516104.1	Scaffold694	7964	CC	TT	1946973041
SNP_P4_141926_8074	NW_004516104.1	Scaffold694	8074	GG	AA	1946973043
SNP_P4_141927_8248	NW_004516104.1	Scaffold694	8248	AA	TT	1946973045
SNP_P4_141928_8458	NW_004516104.1	Scaffold694	8458	CC	TT	1946973047
SNP_P4_141929_8459	NW_004516104.1	Scaffold694	8459	AA	GG	1946973049
SNP_P4_141930_8588	NW_004516104.1	Scaffold694	8588	AA	TT	1946973051
SNP_P4_141931_8607	NW_004516104.1	Scaffold694	8607	TT	CC	1946973053
SNP_P4_141932_8628	NW_004516104.1	Scaffold694	8628	GG	AA	1946973054
SNP_P4_141933_8685	NW_004516104.1	Scaffold694	8685	GG	TT	1946973056
SNP_P4_141934_8872	NW_004516104.1	Scaffold694	8872	AA	GG	1946973058
SNP_P4_141935_9002	NW_004516104.1	Scaffold694	9002	GG	AA	1946973060
SNP_P4_141936_9010	NW_004516104.1	Scaffold694	9010	TT	CC	1946973062

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_141937_9038	NW_004516104.1	Scaffold694	9038	GG	AA	1946973064
SNP_P4_141938_9054	NW_004516104.1	Scaffold694	9054	AA	TT	1946973066
SNP_P4_141939_9120	NW_004516104.1	Scaffold694	9120	AA	GG	1946973068
SNP_P4_141940_9123	NW_004516104.1	Scaffold694	9123	GG	TT	1946973070
SNP_P4_141941_9136	NW_004516104.1	Scaffold694	9136	AA	GG	1946973072
SNP_P4_141942_9196	NW_004516104.1	Scaffold694	9196	CC	TT	1946973074
SNP_P4_141943_9269	NW_004516104.1	Scaffold694	9269	GG	TT	1946973076
SNP_P4_141944_9596	NW_004516104.1	Scaffold694	9596	TT	AA	1946973077
SNP_P4_141945_9645	NW_004516104.1	Scaffold694	9645	TT	CC	1946973079
SNP_P4_141946_61	NW_004516105.1	Scaffold695	61	TT	CC	1946973081
SNP_P4_141947_64	NW_004516105.1	Scaffold695	64	TT	CC	1946973083
SNP_P4_141948_65	NW_004516105.1	Scaffold695	65	TT	CC	1946973085
SNP_P4_141949_80	NW_004516105.1	Scaffold695	80	GG	AA	1946973087
SNP_P4_141950_82	NW_004516105.1	Scaffold695	82	CC	TT	1946973089
SNP_P4_141951_84	NW_004516105.1	Scaffold695	84	GG	CC	1946973091
SNP_P4_141952_98	NW_004516105.1	Scaffold695	98	GG	AA	1946973093
SNP_P4_141953_102	NW_004516105.1	Scaffold695	102	GG	CC	1946973095
SNP_P4_141954_372	NW_004516105.1	Scaffold695	372	GG	CC	1946973097
SNP_P4_141955_423	NW_004516105.1	Scaffold695	423	TT	GG	1946973099
SNP_P4_141956_853	NW_004516105.1	Scaffold695	853	AA	CC	1946973101
SNP_P4_141957_854	NW_004516105.1	Scaffold695	854	TT	GG	1946973103
SNP_P4_141958_1201	NW_004516105.1	Scaffold695	1201	TT	CC	1946973105
SNP_P4_141959_1218	NW_004516105.1	Scaffold695	1218	GG	AA	1946973107
SNP_P4_141960_196	NW_004516106.1	Scaffold696	196	CC	TT	1946973109
SNP_P4_141961_4597	NW_004516106.1	Scaffold696	4597	AA	GG	1946973111
SNP_P4_141962_4611	NW_004516106.1	Scaffold696	4611	CC	GG	1946973113
SNP_P4_141963_12510	NW_004516106.1	Scaffold696	12510	AA	CC	1946973115
SNP_P4_141964_12516	NW_004516106.1	Scaffold696	12516	CC	TT	1946973117
SNP_P4_141965_12705	NW_004516106.1	Scaffold696	12705	CC	TT	1946973119
SNP_P4_141966_12802	NW_004516106.1	Scaffold696	12802	GG	AA	1946973121
SNP_P4_141967_12836	NW_004516106.1	Scaffold696	12836	TT	AA	1946973123
SNP_P4_141968_12845	NW_004516106.1	Scaffold696	12845	AA	GG	1946973125
SNP_P4_141969_12875	NW_004516106.1	Scaffold696	12875	TT	CC	1946973127
SNP_P4_141970_12888	NW_004516106.1	Scaffold696	12888	TT	CC	1946973129
SNP_P4_141971_12919	NW_004516106.1	Scaffold696	12919	TT	CC	1946973131
SNP_P4_141972_13080	NW_004516106.1	Scaffold696	13080	CC	AA	1946973133
SNP_P4_141973_13395	NW_004516106.1	Scaffold696	13395	GG	TT	1946973135
SNP_P4_141974_13498	NW_004516106.1	Scaffold696	13498	TT	CC	1946973137
SNP_P4_141975_13557	NW_004516106.1	Scaffold696	13557	TT	CC	1946973139
SNP_P4_141976_13726	NW_004516106.1	Scaffold696	13726	AA	GG	1946973141
SNP_P4_141977_13995	NW_004516106.1	Scaffold696	13995	AA	CC	1946973143
SNP_P4_141978_14044	NW_004516106.1	Scaffold696	14044	CC	TT	1946973145

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_141979_14054	NW_004516106.1	Scaffold696	14054	AA	CC	1946973147
SNP_P4_141980_23404	NW_004516106.1	Scaffold696	23404	TT	CC	1946973149
SNP_P4_141981_23484	NW_004516106.1	Scaffold696	23484	GG	AA	1946973151
SNP_P4_141983_25839	NW_004516106.1	Scaffold696	25839	GG	TT	1946973153
SNP_P4_141985_25932	NW_004516106.1	Scaffold696	25932	TT	AA	1946973155
SNP_P4_141986_26207	NW_004516106.1	Scaffold696	26207	GG	AA	1946973157
SNP_P4_141987_27898	NW_004516106.1	Scaffold696	27898	GG	TT	1946973159
SNP_P4_141988_27900	NW_004516106.1	Scaffold696	27900	AA	GG	1946973161
SNP_P4_141989_27901	NW_004516106.1	Scaffold696	27901	GG	TT	1946973163
SNP_P4_141990_28092	NW_004516106.1	Scaffold696	28092	AA	TT	1946973165
SNP_P4_141991_28725	NW_004516106.1	Scaffold696	28725	GG	TT	1946973167
SNP_P4_141992_29020	NW_004516106.1	Scaffold696	29020	TT	CC	1946973169
SNP_P4_141993_29128	NW_004516106.1	Scaffold696	29128	GG	AA	1946973171
SNP_P4_141994_29172	NW_004516106.1	Scaffold696	29172	AA	GG	1946973173
SNP_P4_141995_29179	NW_004516106.1	Scaffold696	29179	GG	AA	1946973175
SNP_P4_141996_29180	NW_004516106.1	Scaffold696	29180	GG	AA	1946973177
SNP_P4_141997_29186	NW_004516106.1	Scaffold696	29186	GG	AA	1946973179
SNP_P4_141998_32960	NW_004516106.1	Scaffold696	32960	TT	CC	1946973181
SNP_P4_141999_33009	NW_004516106.1	Scaffold696	33009	TT	GG	1946973183
SNP_P4_142000_33055	NW_004516106.1	Scaffold696	33055	AA	GG	1946973185
SNP_P4_142001_33096	NW_004516106.1	Scaffold696	33096	AA	GG	1946973187
SNP_P4_142002_33321	NW_004516106.1	Scaffold696	33321	AA	GG	1946973189
SNP_P4_142003_33463	NW_004516106.1	Scaffold696	33463	GG	AA	1946973191
SNP_P4_142004_33604	NW_004516106.1	Scaffold696	33604	TT	CC	1946973193
SNP_P4_142005_39454	NW_004516106.1	Scaffold696	39454	CC	TT	1946973195
SNP_P4_142006_39892	NW_004516106.1	Scaffold696	39892	GG	CC	1946973197
SNP_P4_142007_40146	NW_004516106.1	Scaffold696	40146	CC	TT	1946973199
SNP_P4_142008_40154	NW_004516106.1	Scaffold696	40154	TT	CC	1946973201
SNP_P4_142009_43223	NW_004516106.1	Scaffold696	43223	GG	AA	1946973203
SNP_P4_142010_43243	NW_004516106.1	Scaffold696	43243	AA	TT	1946973205
SNP_P4_142011_43310	NW_004516106.1	Scaffold696	43310	TT	CC	1946973207
SNP_P4_142012_43325	NW_004516106.1	Scaffold696	43325	CC	TT	1946973209
SNP_P4_142013_43355	NW_004516106.1	Scaffold696	43355	CC	TT	1946973211
SNP_P4_142014_43439	NW_004516106.1	Scaffold696	43439	GG	TT	1946973213
SNP_P4_142015_43491	NW_004516106.1	Scaffold696	43491	AA	GG	1946973215
SNP_P4_142016_52159	NW_004516106.1	Scaffold696	52159	AA	CC	1946973217
SNP_P4_142017_52293	NW_004516106.1	Scaffold696	52293	AA	TT	1946973219
SNP_P4_142019_52353	NW_004516106.1	Scaffold696	52353	GG	AA	1946973221
SNP_P4_142020_52376	NW_004516106.1	Scaffold696	52376	CC	TT	1946973223
SNP_P4_142021_52638	NW_004516106.1	Scaffold696	52638	TT	CC	1946973225
SNP_P4_142022_53408	NW_004516106.1	Scaffold696	53408	GG	AA	1946973227
SNP_P4_142023_53971	NW_004516106.1	Scaffold696	53971	CC	TT	1946973229

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_142024_93589	NW_004516106.1	Scaffold696	93589	GG	AA	1946973231
SNP_P4_142025_103640	NW_004516106.1	Scaffold696	103640	AA	CC	1946973233
SNP_P4_142026_125885	NW_004516106.1	Scaffold696	125885	CC	TT	1946973235
SNP_P4_142027_153887	NW_004516106.1	Scaffold696	153887	TT	CC	1946973237
SNP_P4_142028_179679	NW_004516106.1	Scaffold696	179679	TT	AA	1946973239
SNP_P4_142029_179732	NW_004516106.1	Scaffold696	179732	CC	AA	1946973241
SNP_P4_142030_185137	NW_004516106.1	Scaffold696	185137	TT	CC	1946973243
SNP_P4_142031_185193	NW_004516106.1	Scaffold696	185193	TT	CC	1946973245
SNP_P4_142032_185518	NW_004516106.1	Scaffold696	185518	AA	GG	1946973247
SNP_P4_142033_191814	NW_004516106.1	Scaffold696	191814	CC	AA	1946973249
SNP_P4_142034_191844	NW_004516106.1	Scaffold696	191844	TT	CC	1946973251
SNP_P4_142036_202755	NW_004516106.1	Scaffold696	202755	TT	CC	1946973253
SNP_P4_142037_444	NW_004516108.1	Scaffold702	444	TT	GG	1946973255
SNP_P4_142038_448	NW_004516108.1	Scaffold702	448	AA	TT	1946973257
SNP_P4_142039_450	NW_004516108.1	Scaffold702	450	TT	CC	1946973259
SNP_P4_142040_544	NW_004516108.1	Scaffold702	544	AA	GG	1946973261
SNP_P4_142041_553	NW_004516108.1	Scaffold702	553	AA	CC	1946973263
SNP_P4_142042_566	NW_004516108.1	Scaffold702	566	TT	CC	1946973265
SNP_P4_142044_1173	NW_004516108.1	Scaffold702	1173	AA	GG	1946973267
SNP_P4_142045_1259	NW_004516108.1	Scaffold702	1259	TT	CC	1946973269
SNP_P4_142046_1530	NW_004516108.1	Scaffold702	1530	AA	GG	1946973271
SNP_P4_142047_7119	NW_004516108.1	Scaffold702	7119	GG	AA	1946973273
SNP_P4_142048_7711	NW_004516108.1	Scaffold702	7711	GG	TT	1946973275
SNP_P4_142049_10144	NW_004516108.1	Scaffold702	10144	GG	TT	1946973276
SNP_P4_142050_10211	NW_004516108.1	Scaffold702	10211	AA	TT	1946973278
SNP_P4_142051_11899	NW_004516108.1	Scaffold702	11899	AA	CC	1946973280
SNP_P4_142052_13954	NW_004516108.1	Scaffold702	13954	CC	TT	1946973282
SNP_P4_142053_20211	NW_004516108.1	Scaffold702	20211	AA	CC	1946973284
SNP_P4_142054_25112	NW_004516108.1	Scaffold702	25112	AA	GG	1946973286
SNP_P4_142055_33228	NW_004516108.1	Scaffold702	33228	TT	CC	1946973288
SNP_P4_142056_36601	NW_004516108.1	Scaffold702	36601	TT	GG	1946973290
SNP_P4_142057_37257	NW_004516108.1	Scaffold702	37257	GG	AA	1946973292
SNP_P4_142058_49785	NW_004516108.1	Scaffold702	49785	CC	AA	1946973294
SNP_P4_142061_51185	NW_004516108.1	Scaffold702	51185	GG	AA	1946973296
SNP_P4_142062_51195	NW_004516108.1	Scaffold702	51195	CC	GG	1946973298
SNP_P4_142063_52313	NW_004516108.1	Scaffold702	52313	TT	AA	1946973300
SNP_P4_142064_52928	NW_004516108.1	Scaffold702	52928	AA	TT	1946973302
SNP_P4_142065_53003	NW_004516108.1	Scaffold702	53003	AA	GG	1946973304
SNP_P4_142066_53019	NW_004516108.1	Scaffold702	53019	AA	GG	1946973306
SNP_P4_142067_53023	NW_004516108.1	Scaffold702	53023	AA	GG	1946973308
SNP_P4_142070_57845	NW_004516108.1	Scaffold702	57845	CC	AA	1946973310
SNP_P4_142071_58359	NW_004516108.1	Scaffold702	58359	CC	AA	1946973312

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_142075_67532	NW_004516108.1	Scaffold702	67532	AA	CC	1946973316
SNP_P4_142076_69265	NW_004516108.1	Scaffold702	69265	TT	GG	1946973318
SNP_P4_142077_72338	NW_004516108.1	Scaffold702	72338	CC	TT	1946973320
SNP_P4_142078_77284	NW_004516108.1	Scaffold702	77284	AA	TT	1946973322
SNP_P4_142079_80772	NW_004516108.1	Scaffold702	80772	CC	TT	1946973324
SNP_P4_142080_81203	NW_004516108.1	Scaffold702	81203	AA	GG	1946973326
SNP_P4_142081_82666	NW_004516108.1	Scaffold702	82666	GG	AA	1946973328
SNP_P4_142083_99706	NW_004516108.1	Scaffold702	99706	TT	CC	1946973330
SNP_P4_142084_99740	NW_004516108.1	Scaffold702	99740	TT	CC	1946973332
SNP_P4_142085_99778	NW_004516108.1	Scaffold702	99778	AA	GG	1946973334
SNP_P4_142087_105990	NW_004516108.1	Scaffold702	105990	AA	GG	1946973336
SNP_P4_142088_105993	NW_004516108.1	Scaffold702	105993	TT	GG	1946973338
SNP_P4_142089_106338	NW_004516108.1	Scaffold702	106338	TT	GG	1946973340
SNP_P4_142090_114803	NW_004516108.1	Scaffold702	114803	TT	CC	1946973342
SNP_P4_142092_118899	NW_004516108.1	Scaffold702	118899	GG	CC	1946973344
SNP_P4_142093_122018	NW_004516108.1	Scaffold702	122018	AA	GG	1946973346
SNP_P4_142094_122160	NW_004516108.1	Scaffold702	122160	AA	CC	1946973348
SNP_P4_142096_124789	NW_004516108.1	Scaffold702	124789	AA	CC	1946973350
SNP_P4_142097_124841	NW_004516108.1	Scaffold702	124841	TT	CC	1946973352
SNP_P4_142098_135520	NW_004516108.1	Scaffold702	135520	TT	CC	1946973353
SNP_P4_142099_138421	NW_004516108.1	Scaffold702	138421	AA	GG	1946973356
SNP_P4_142100_140206	NW_004516108.1	Scaffold702	140206	AA	GG	1946973358
SNP_P4_142101_141029	NW_004516108.1	Scaffold702	141029	GG	AA	1946973360
SNP_P4_142102_147531	NW_004516108.1	Scaffold702	147531	AA	GG	1946973362
SNP_P4_142103_153109	NW_004516108.1	Scaffold702	153109	TT	CC	1946973364
SNP_P4_142104_153292	NW_004516108.1	Scaffold702	153292	CC	GG	1946973366
SNP_P4_142106_162816	NW_004516108.1	Scaffold702	162816	AA	CC	1946973368
SNP_P4_142107_165116	NW_004516108.1	Scaffold702	165116	GG	AA	1946973370
SNP_P4_142108_173237	NW_004516108.1	Scaffold702	173237	TT	CC	1946973372
SNP_P4_142109_174457	NW_004516108.1	Scaffold702	174457	AA	GG	1946973374
SNP_P4_142110_175159	NW_004516108.1	Scaffold702	175159	AA	TT	1946973376
SNP_P4_142111_175559	NW_004516108.1	Scaffold702	175559	AA	GG	1946973378
SNP_P4_142112_176758	NW_004516108.1	Scaffold702	176758	GG	AA	1946973380
SNP_P4_142114_184623	NW_004516108.1	Scaffold702	184623	TT	CC	1946973382
SNP_P4_142115_184817	NW_004516108.1	Scaffold702	184817	GG	TT	1946973384
SNP_P4_142116_186972	NW_004516108.1	Scaffold702	186972	AA	TT	1946973386
SNP_P4_142117_187655	NW_004516108.1	Scaffold702	187655	AA	GG	1946973388
SNP_P4_142118_187836	NW_004516108.1	Scaffold702	187836	CC	TT	1946973390
SNP_P4_142119_207635	NW_004516108.1	Scaffold702	207635	AA	GG	1946973392
SNP_P4_142120_207644	NW_004516108.1	Scaffold702	207644	AA	GG	1946973394
SNP_P4_142121_207672	NW_004516108.1	Scaffold702	207672	AA	GG	1946973396

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_142122_207853	NW_004516108.1	Scaffold702	207853	AA	TT	1946973398
SNP_P4_142123_207875	NW_004516108.1	Scaffold702	207875	CC	GG	1946973400
SNP_P4_142124_208661	NW_004516108.1	Scaffold702	208661	AA	GG	1946973402
SNP_P4_142125_214527	NW_004516108.1	Scaffold702	214527	CC	TT	1946973404
SNP_P4_142126_215693	NW_004516108.1	Scaffold702	215693	CC	AA	1946973406
SNP_P4_142128_218152	NW_004516108.1	Scaffold702	218152	CC	GG	1946973408
SNP_P4_142129_218174	NW_004516108.1	Scaffold702	218174	CC	TT	1946973410
SNP_P4_142130_219037	NW_004516108.1	Scaffold702	219037	CC	GG	1946973412
SNP_P4_142131_219039	NW_004516108.1	Scaffold702	219039	TT	CC	1946973414
SNP_P4_142132_219078	NW_004516108.1	Scaffold702	219078	TT	GG	1946973416
SNP_P4_142135_226215	NW_004516108.1	Scaffold702	226215	TT	CC	1946973418
SNP_P4_142136_228785	NW_004516108.1	Scaffold702	228785	GG	AA	1946973420
SNP_P4_142137_228818	NW_004516108.1	Scaffold702	228818	GG	TT	1946973422
SNP_P4_142138_237935	NW_004516108.1	Scaffold702	237935	CC	TT	1946973424
SNP_P4_142139_248052	NW_004516108.1	Scaffold702	248052	CC	TT	1946973426
SNP_P4_142140_248954	NW_004516108.1	Scaffold702	248954	GG	AA	1946973428
SNP_P4_142142_250431	NW_004516108.1	Scaffold702	250431	GG	AA	1946973430
SNP_P4_142143_251515	NW_004516108.1	Scaffold702	251515	AA	CC	1946973432
SNP_P4_142144_251557	NW_004516108.1	Scaffold702	251557	CC	GG	1946973434
SNP_P4_142145_252522	NW_004516108.1	Scaffold702	252522	CC	TT	1946973436
SNP_P4_142146_252656	NW_004516108.1	Scaffold702	252656	TT	AA	1946973438
SNP_P4_142147_253325	NW_004516108.1	Scaffold702	253325	TT	GG	1946973440
SNP_P4_142148_254209	NW_004516108.1	Scaffold702	254209	AA	GG	1946973442
SNP_P4_142149_254221	NW_004516108.1	Scaffold702	254221	AA	GG	1946973444
SNP_P4_142150_254495	NW_004516108.1	Scaffold702	254495	TT	CC	1946973446
SNP_P4_142151_255255	NW_004516108.1	Scaffold702	255255	AA	GG	1946973448
SNP_P4_142152_255305	NW_004516108.1	Scaffold702	255305	CC	TT	1946973450
SNP_P4_142153_255400	NW_004516108.1	Scaffold702	255400	GG	AA	1946973452
SNP_P4_142154_255406	NW_004516108.1	Scaffold702	255406	GG	AA	1946973454
SNP_P4_142156_255920	NW_004516108.1	Scaffold702	255920	GG	AA	1946973456
SNP_P4_142157_260909	NW_004516108.1	Scaffold702	260909	TT	GG	1946973458
SNP_P4_142158_262381	NW_004516108.1	Scaffold702	262381	TT	AA	1946973460
SNP_P4_142159_262430	NW_004516108.1	Scaffold702	262430	CC	TT	1946973462
SNP_P4_142160_262432	NW_004516108.1	Scaffold702	262432	TT	AA	1946973464
SNP_P4_142161_262463	NW_004516108.1	Scaffold702	262463	TT	GG	1946973466
SNP_P4_142162_262487	NW_004516108.1	Scaffold702	262487	CC	TT	1946973468
SNP_P4_142163_262563	NW_004516108.1	Scaffold702	262563	AA	CC	1946973470
SNP_P4_142164_262749	NW_004516108.1	Scaffold702	262749	AA	GG	1946973472
SNP_P4_142165_262771	NW_004516108.1	Scaffold702	262771	CC	TT	1946973474
SNP_P4_142166_262775	NW_004516108.1	Scaffold702	262775	AA	GG	1946973476
SNP_P4_142167_262837	NW_004516108.1	Scaffold702	262837	TT	CC	1946973478
SNP_P4_142168_262995	NW_004516108.1	Scaffold702	262995	TT	CC	1946973480

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_142169_263000	NW_004516108.1	Scaffold702	263000	CC	TT	1946973482
SNP_P4_142170_263028	NW_004516108.1	Scaffold702	263028	TT	AA	1946973484
SNP_P4_142171_263031	NW_004516108.1	Scaffold702	263031	CC	TT	1946973486
SNP_P4_142172_263052	NW_004516108.1	Scaffold702	263052	AA	TT	1946973488
SNP_P4_142173_263063	NW_004516108.1	Scaffold702	263063	TT	CC	1946973490
SNP_P4_142174_263087	NW_004516108.1	Scaffold702	263087	AA	CC	1946973492
SNP_P4_142176_263702	NW_004516108.1	Scaffold702	263702	AA	CC	1946973494
SNP_P4_142177_263745	NW_004516108.1	Scaffold702	263745	AA	GG	1946973496
SNP_P4_142178_263807	NW_004516108.1	Scaffold702	263807	AA	CC	1946973498
SNP_P4_142179_263821	NW_004516108.1	Scaffold702	263821	TT	CC	1946973500
SNP_P4_142180_263925	NW_004516108.1	Scaffold702	263925	CC	AA	1946973502
SNP_P4_142181_263927	NW_004516108.1	Scaffold702	263927	GG	TT	1946973504
SNP_P4_142182_266326	NW_004516108.1	Scaffold702	266326	AA	TT	1946973506
SNP_P4_142183_271593	NW_004516108.1	Scaffold702	271593	TT	AA	1946973508
SNP_P4_142184_272959	NW_004516108.1	Scaffold702	272959	GG	TT	1946973510
SNP_P4_142186_273213	NW_004516108.1	Scaffold702	273213	AA	TT	1946973512
SNP_P4_142188_273657	NW_004516108.1	Scaffold702	273657	CC	GG	1946973514
SNP_P4_142190_276896	NW_004516108.1	Scaffold702	276896	CC	GG	1946973516
SNP_P4_142191_280287	NW_004516108.1	Scaffold702	280287	TT	CC	1946973518
SNP_P4_142192_281869	NW_004516108.1	Scaffold702	281869	TT	AA	1946973520
SNP_P4_142193_282692	NW_004516108.1	Scaffold702	282692	AA	GG	1946973522
SNP_P4_142194_283940	NW_004516108.1	Scaffold702	283940	AA	GG	1946973524
SNP_P4_142195_284382	NW_004516108.1	Scaffold702	284382	CC	GG	1946973526
SNP_P4_142196_286533	NW_004516108.1	Scaffold702	286533	TT	AA	1946973528
SNP_P4_142197_286764	NW_004516108.1	Scaffold702	286764	GG	TT	1946973530
SNP_P4_142198_286765	NW_004516108.1	Scaffold702	286765	AA	TT	1946973532
SNP_P4_142199_288662	NW_004516108.1	Scaffold702	288662	CC	TT	1946973534
SNP_P4_142200_288804	NW_004516108.1	Scaffold702	288804	CC	AA	1946973536
SNP_P4_142202_290679	NW_004516108.1	Scaffold702	290679	GG	AA	1946973538
SNP_P4_142203_291071	NW_004516108.1	Scaffold702	291071	AA	TT	1946973540
SNP_P4_142204_291504	NW_004516108.1	Scaffold702	291504	GG	CC	1946973542
SNP_P4_142205_291529	NW_004516108.1	Scaffold702	291529	AA	GG	1946973544
SNP_P4_142206_291993	NW_004516108.1	Scaffold702	291993	CC	AA	1946973546
SNP_P4_142207_294146	NW_004516108.1	Scaffold702	294146	GG	TT	1946973548
SNP_P4_142208_296986	NW_004516108.1	Scaffold702	296986	CC	GG	1946973550
SNP_P4_142209_301631	NW_004516108.1	Scaffold702	301631	CC	AA	1946973552
SNP_P4_142210_1142	NW_004516109.1	Scaffold705	1142	AA	GG	1946973554
SNP_P4_142211_3299	NW_004516109.1	Scaffold705	3299	TT	CC	1946973556
SNP_P4_142212_3422	NW_004516109.1	Scaffold705	3422	AA	GG	1946973558
SNP_P4_142213_5520	NW_004516109.1	Scaffold705	5520	CC	TT	1946973560
SNP_P4_142214_5641	NW_004516109.1	Scaffold705	5641	CC	TT	1946973562
SNP_P4_142215_5660	NW_004516109.1	Scaffold705	5660	AA	TT	1946973564

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_142217_6417	NW_004516109.1	Scaffold705	6417	TT	AA	1946973569
SNP_P4_142218_11516	NW_004516109.1	Scaffold705	11516	CC	TT	1946973571
SNP_P4_142219_11782	NW_004516109.1	Scaffold705	11782	TT	CC	1946973572
SNP_P4_142220_11813	NW_004516109.1	Scaffold705	11813	CC	AA	1946973573
SNP_P4_142221_12143	NW_004516109.1	Scaffold705	12143	GG	AA	1946973574
SNP_P4_142222_12232	NW_004516109.1	Scaffold705	12232	GG	CC	1946973576
SNP_P4_142223_12433	NW_004516109.1	Scaffold705	12433	CC	AA	1946973578
SNP_P4_142224_12761	NW_004516109.1	Scaffold705	12761	AA	TT	1946973580
SNP_P4_142225_12833	NW_004516109.1	Scaffold705	12833	GG	AA	1946973582
SNP_P4_142226_12893	NW_004516109.1	Scaffold705	12893	TT	AA	1946973584
SNP_P4_142227_12900	NW_004516109.1	Scaffold705	12900	AA	GG	1946973586
SNP_P4_142228_13107	NW_004516109.1	Scaffold705	13107	CC	GG	1946973588
SNP_P4_142229_13875	NW_004516109.1	Scaffold705	13875	GG	AA	1946973590
SNP_P4_142230_13907	NW_004516109.1	Scaffold705	13907	AA	GG	1946973592
SNP_P4_142231_16476	NW_004516109.1	Scaffold705	16476	CC	GG	1946973594
SNP_P4_142232_16516	NW_004516109.1	Scaffold705	16516	CC	GG	1946973596
SNP_P4_142233_16586	NW_004516109.1	Scaffold705	16586	GG	TT	1946973598
SNP_P4_142234_16625	NW_004516109.1	Scaffold705	16625	CC	TT	1946973600
SNP_P4_142235_16627	NW_004516109.1	Scaffold705	16627	CC	TT	1946973603
SNP_P4_142236_16655	NW_004516109.1	Scaffold705	16655	GG	AA	1946973605
SNP_P4_142237_16745	NW_004516109.1	Scaffold705	16745	CC	AA	1946973607
SNP_P4_142238_16761	NW_004516109.1	Scaffold705	16761	GG	AA	1946973609
SNP_P4_142239_16775	NW_004516109.1	Scaffold705	16775	GG	TT	1946973611
SNP_P4_142240_16845	NW_004516109.1	Scaffold705	16845	GG	CC	1946973613
SNP_P4_142241_16860	NW_004516109.1	Scaffold705	16860	TT	CC	1946973615
SNP_P4_142242_16891	NW_004516109.1	Scaffold705	16891	GG	TT	1946973617
SNP_P4_142244_17218	NW_004516109.1	Scaffold705	17218	GG	AA	1946973619
SNP_P4_142245_19202	NW_004516109.1	Scaffold705	19202	GG	TT	1946973621
SNP_P4_142246_25027	NW_004516109.1	Scaffold705	25027	AA	GG	1946973623
SNP_P4_142247_25065	NW_004516109.1	Scaffold705	25065	GG	TT	1946973625
SNP_P4_142248_25257	NW_004516109.1	Scaffold705	25257	AA	TT	1946973627
SNP_P4_142249_25263	NW_004516109.1	Scaffold705	25263	CC	GG	1946973629
SNP_P4_142250_25270	NW_004516109.1	Scaffold705	25270	CC	GG	1946973631
SNP_P4_142251_25335	NW_004516109.1	Scaffold705	25335	GG	AA	1946973633
SNP_P4_142252_25336	NW_004516109.1	Scaffold705	25336	CC	TT	1946973635
SNP_P4_142253_25377	NW_004516109.1	Scaffold705	25377	CC	TT	1946973637
SNP_P4_142254_25973	NW_004516109.1	Scaffold705	25973	TT	CC	1946973639
SNP_P4_142255_26925	NW_004516109.1	Scaffold705	26925	AA	GG	1946973641
SNP_P4_142256_29648	NW_004516109.1	Scaffold705	29648	GG	CC	1946973643
SNP_P4_142257_29671	NW_004516109.1	Scaffold705	29671	AA	GG	1946973645
SNP_P4_142258_29680	NW_004516109.1	Scaffold705	29680	CC	TT	1946973647

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_142260_29957	NW_004516109.1	Scaffold705	29957	GG	AA	1946973651
SNP_P4_142261_30456	NW_004516109.1	Scaffold705	30456	CC	TT	1946973653
SNP_P4_142263_31154	NW_004516109.1	Scaffold705	31154	TT	GG	1946973655
SNP_P4_142264_32643	NW_004516109.1	Scaffold705	32643	CC	TT	1946973657
SNP_P4_142265_33725	NW_004516109.1	Scaffold705	33725	AA	CC	1946973659
SNP_P4_142266_33886	NW_004516109.1	Scaffold705	33886	TT	CC	1946973661
SNP_P4_142267_34316	NW_004516109.1	Scaffold705	34316	TT	CC	1946973663
SNP_P4_142268_34371	NW_004516109.1	Scaffold705	34371	AA	TT	1946973665
SNP_P4_142269_34448	NW_004516109.1	Scaffold705	34448	CC	GG	1946973667
SNP_P4_142270_34712	NW_004516109.1	Scaffold705	34712	TT	AA	1946973669
SNP_P4_142272_34802	NW_004516109.1	Scaffold705	34802	AA	CC	1946973671
SNP_P4_142273_34836	NW_004516109.1	Scaffold705	34836	GG	AA	1946973673
SNP_P4_142274_34884	NW_004516109.1	Scaffold705	34884	GG	AA	1946973675
SNP_P4_142275_34964	NW_004516109.1	Scaffold705	34964	CC	TT	1946973677
SNP_P4_142276_34996	NW_004516109.1	Scaffold705	34996	AA	CC	1946973679
SNP_P4_142277_35099	NW_004516109.1	Scaffold705	35099	TT	AA	1946973681
SNP_P4_142278_35197	NW_004516109.1	Scaffold705	35197	AA	CC	1946973683
SNP_P4_142279_35264	NW_004516109.1	Scaffold705	35264	AA	TT	1946973685
SNP_P4_142280_35431	NW_004516109.1	Scaffold705	35431	GG	AA	1946973687
SNP_P4_142281_42617	NW_004516109.1	Scaffold705	42617	TT	GG	1946973689
SNP_P4_142283_45474	NW_004516109.1	Scaffold705	45474	CC	AA	1946973691
SNP_P4_142284_45656	NW_004516109.1	Scaffold705	45656	AA	TT	1946973693
SNP_P4_142285_45682	NW_004516109.1	Scaffold705	45682	AA	GG	1946973695
SNP_P4_142286_45746	NW_004516109.1	Scaffold705	45746	GG	AA	1946973697
SNP_P4_142287_46800	NW_004516109.1	Scaffold705	46800	TT	CC	1946973699
SNP_P4_142288_47958	NW_004516109.1	Scaffold705	47958	GG	TT	1946973701
SNP_P4_142289_48313	NW_004516109.1	Scaffold705	48313	TT	GG	1946973703
SNP_P4_142290_48626	NW_004516109.1	Scaffold705	48626	TT	AA	1946973705
SNP_P4_142291_55742	NW_004516109.1	Scaffold705	55742	AA	GG	1946973707
SNP_P4_142292_55964	NW_004516109.1	Scaffold705	55964	GG	TT	1946973709
SNP_P4_142293_56034	NW_004516109.1	Scaffold705	56034	AA	GG	1946973711
SNP_P4_142294_56154	NW_004516109.1	Scaffold705	56154	CC	TT	1946973713
SNP_P4_142295_56155	NW_004516109.1	Scaffold705	56155	TT	AA	1946973715
SNP_P4_142296_56568	NW_004516109.1	Scaffold705	56568	GG	AA	1946973717
SNP_P4_142297_57325	NW_004516109.1	Scaffold705	57325	GG	TT	1946973719
SNP_P4_142298_57685	NW_004516109.1	Scaffold705	57685	GG	CC	1946973721
SNP_P4_142299_64309	NW_004516109.1	Scaffold705	64309	TT	CC	1946973723
SNP_P4_142300_64311	NW_004516109.1	Scaffold705	64311	GG	AA	1946973725
SNP_P4_142301_64379	NW_004516109.1	Scaffold705	64379	GG	AA	1946973727
SNP_P4_142302_64956	NW_004516109.1	Scaffold705	64956	CC	TT	1946973729
SNP_P4_142303_64958	NW_004516109.1	Scaffold705	64958	CC	AA	1946973731

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_142305_410	NW_004516110.1	Scaffold707	410	CC	GG	1946973735
SNP_P4_142306_1002	NW_004516110.1	Scaffold707	1002	GG	AA	1946973737
SNP_P4_142307_1502	NW_004516110.1	Scaffold707	1502	AA	GG	1946973739
SNP_P4_142308_5120	NW_004516110.1	Scaffold707	5120	GG	AA	1946973741
SNP_P4_142309_5393	NW_004516110.1	Scaffold707	5393	TT	CC	1946973743
SNP_P4_142310_5500	NW_004516110.1	Scaffold707	5500	CC	TT	1946973745
SNP_P4_142311_5581	NW_004516110.1	Scaffold707	5581	AA	GG	1946973747
SNP_P4_142312_17970	NW_004516110.1	Scaffold707	17970	TT	GG	1946973749
SNP_P4_142313_18053	NW_004516110.1	Scaffold707	18053	GG	AA	1946973751
SNP_P4_142314_18092	NW_004516110.1	Scaffold707	18092	TT	CC	1946973753
SNP_P4_142315_18203	NW_004516110.1	Scaffold707	18203	CC	TT	1946973755
SNP_P4_142316_18223	NW_004516110.1	Scaffold707	18223	TT	CC	1946973757
SNP_P4_142317_18245	NW_004516110.1	Scaffold707	18245	AA	TT	1946973759
SNP_P4_142318_18347	NW_004516110.1	Scaffold707	18347	GG	AA	1946973761
SNP_P4_142319_18351	NW_004516110.1	Scaffold707	18351	GG	AA	1946973763
SNP_P4_142320_55039	NW_004516110.1	Scaffold707	55039	TT	CC	1946973765
SNP_P4_142321_55046	NW_004516110.1	Scaffold707	55046	CC	AA	1946973767
SNP_P4_142322_55076	NW_004516110.1	Scaffold707	55076	TT	AA	1946973769
SNP_P4_142323_55126	NW_004516110.1	Scaffold707	55126	TT	CC	1946973771
SNP_P4_142324_55519	NW_004516110.1	Scaffold707	55519	CC	TT	1946973773
SNP_P4_142325_55534	NW_004516110.1	Scaffold707	55534	TT	GG	1946973774
SNP_P4_142326_55550	NW_004516110.1	Scaffold707	55550	AA	TT	1946973776
SNP_P4_142327_55580	NW_004516110.1	Scaffold707	55580	AA	GG	1946973778
SNP_P4_142328_55611	NW_004516110.1	Scaffold707	55611	TT	CC	1946973780
SNP_P4_142329_59670	NW_004516110.1	Scaffold707	59670	TT	CC	1946973782
SNP_P4_142330_66710	NW_004516110.1	Scaffold707	66710	TT	GG	1946973784
SNP_P4_142332_81310	NW_004516110.1	Scaffold707	81310	TT	AA	1946973786
SNP_P4_142333_81547	NW_004516110.1	Scaffold707	81547	GG	TT	1946973788
SNP_P4_142334_81847	NW_004516110.1	Scaffold707	81847	GG	AA	1946973790
SNP_P4_142335_82103	NW_004516110.1	Scaffold707	82103	AA	GG	1946973792
SNP_P4_142336_83183	NW_004516110.1	Scaffold707	83183	CC	AA	1946973794
SNP_P4_142337_85616	NW_004516110.1	Scaffold707	85616	AA	GG	1946973796
SNP_P4_142338_85642	NW_004516110.1	Scaffold707	85642	AA	GG	1946973798
SNP_P4_142339_85643	NW_004516110.1	Scaffold707	85643	CC	TT	1946973800
SNP_P4_142340_86032	NW_004516110.1	Scaffold707	86032	TT	GG	1946973802
SNP_P4_142341_104027	NW_004516110.1	Scaffold707	104027	GG	AA	1946973804
SNP_P4_142343_115350	NW_004516110.1	Scaffold707	115350	AA	GG	1946973805
SNP_P4_142344_115351	NW_004516110.1	Scaffold707	115351	CC	TT	1946973807
SNP_P4_142345_115408	NW_004516110.1	Scaffold707	115408	TT	AA	1946973809
SNP_P4_142346_115658	NW_004516110.1	Scaffold707	115658	TT	CC	1946973811
SNP_P4_142347_118913	NW_004516110.1	Scaffold707	118913	TT	AA	1946973813

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_142348_118914	NW_004516110.1	Scaffold707	118914	GG	AA	1946973815
SNP_P4_142349_119293	NW_004516110.1	Scaffold707	119293	TT	AA	1946973817
SNP_P4_142350_119940	NW_004516110.1	Scaffold707	119940	AA	TT	1946973819
SNP_P4_142351_121413	NW_004516110.1	Scaffold707	121413	TT	CC	1946973821
SNP_P4_142352_121444	NW_004516110.1	Scaffold707	121444	TT	AA	1946973823
SNP_P4_142353_121448	NW_004516110.1	Scaffold707	121448	AA	GG	1946973825
SNP_P4_142354_121560	NW_004516110.1	Scaffold707	121560	AA	GG	1946973827
SNP_P4_142355_121572	NW_004516110.1	Scaffold707	121572	GG	AA	1946973829
SNP_P4_142356_121707	NW_004516110.1	Scaffold707	121707	CC	TT	1946973831
SNP_P4_142358_121889	NW_004516110.1	Scaffold707	121889	AA	TT	1946973833
SNP_P4_142359_121931	NW_004516110.1	Scaffold707	121931	AA	CC	1946973835
SNP_P4_142360_121961	NW_004516110.1	Scaffold707	121961	GG	AA	1946973837
SNP_P4_142361_121967	NW_004516110.1	Scaffold707	121967	CC	AA	1946973839
SNP_P4_142362_121973	NW_004516110.1	Scaffold707	121973	AA	GG	1946973840
SNP_P4_142363_122237	NW_004516110.1	Scaffold707	122237	CC	TT	1946973842
SNP_P4_142364_122706	NW_004516110.1	Scaffold707	122706	CC	TT	1946973844
SNP_P4_142365_126124	NW_004516110.1	Scaffold707	126124	GG	CC	1946973846
SNP_P4_142366_128765	NW_004516110.1	Scaffold707	128765	AA	TT	1946973848
SNP_P4_142367_128779	NW_004516110.1	Scaffold707	128779	CC	TT	1946973850
SNP_P4_142368_135573	NW_004516110.1	Scaffold707	135573	AA	TT	1946973852
SNP_P4_142369_135894	NW_004516110.1	Scaffold707	135894	TT	CC	1946973854
SNP_P4_142370_135954	NW_004516110.1	Scaffold707	135954	AA	CC	1946973856
SNP_P4_142371_136350	NW_004516110.1	Scaffold707	136350	AA	GG	1946973858
SNP_P4_142373_136719	NW_004516110.1	Scaffold707	136719	CC	TT	1946973860
SNP_P4_142374_136831	NW_004516110.1	Scaffold707	136831	GG	AA	1946973862
SNP_P4_142375_139040	NW_004516110.1	Scaffold707	139040	CC	TT	1946973864
SNP_P4_142376_148891	NW_004516110.1	Scaffold707	148891	GG	AA	1946973866
SNP_P4_142377_153781	NW_004516110.1	Scaffold707	153781	TT	AA	1946973868
SNP_P4_142378_154183	NW_004516110.1	Scaffold707	154183	TT	CC	1946973870
SNP_P4_142379_157103	NW_004516110.1	Scaffold707	157103	AA	GG	1946973872
SNP_P4_142380_157112	NW_004516110.1	Scaffold707	157112	GG	AA	1946973874
SNP_P4_142381_4355	NW_004516111.1	Scaffold708	4355	CC	TT	1946973943
SNP_P4_142382_4367	NW_004516111.1	Scaffold708	4367	CC	AA	1946973945
SNP_P4_142383_10927	NW_004516111.1	Scaffold708	10927	TT	CC	1946973947
SNP_P4_142384_10966	NW_004516111.1	Scaffold708	10966	TT	GG	1946973950
SNP_P4_142385_10987	NW_004516111.1	Scaffold708	10987	TT	CC	1946973952
SNP_P4_142386_10998	NW_004516111.1	Scaffold708	10998	CC	AA	1946973954
SNP_P4_142387_11014	NW_004516111.1	Scaffold708	11014	TT	CC	1946973956
SNP_P4_142388_11020	NW_004516111.1	Scaffold708	11020	GG	AA	1946973958
SNP_P4_142389_11049	NW_004516111.1	Scaffold708	11049	AA	GG	1946973960
SNP_P4_142390_11119	NW_004516111.1	Scaffold708	11119	AA	GG	1946973962
SNP_P4_142391_11155	NW_004516111.1	Scaffold708	11155	AA	GG	1946973964

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_142392_11181	NW_004516111.1	Scaffold708	11181	GG	TT	1946973966
SNP_P4_142393_11200	NW_004516111.1	Scaffold708	11200	TT	AA	1946973968
SNP_P4_142394_11229	NW_004516111.1	Scaffold708	11229	AA	GG	1946973970
SNP_P4_142395_11230	NW_004516111.1	Scaffold708	11230	CC	AA	1946973972
SNP_P4_142396_11263	NW_004516111.1	Scaffold708	11263	TT	CC	1946973974
SNP_P4_142397_11287	NW_004516111.1	Scaffold708	11287	CC	TT	1946973976
SNP_P4_142399_12452	NW_004516111.1	Scaffold708	12452	AA	CC	1946973978
SNP_P4_142400_12482	NW_004516111.1	Scaffold708	12482	CC	TT	1946973980
SNP_P4_142401_12563	NW_004516111.1	Scaffold708	12563	GG	AA	1946973982
SNP_P4_142402_12884	NW_004516111.1	Scaffold708	12884	AA	GG	1946973984
SNP_P4_142403_12904	NW_004516111.1	Scaffold708	12904	TT	CC	1946973986
SNP_P4_142404_12968	NW_004516111.1	Scaffold708	12968	AA	CC	1946973988
SNP_P4_142405_12991	NW_004516111.1	Scaffold708	12991	AA	CC	1946973990
SNP_P4_142406_13003	NW_004516111.1	Scaffold708	13003	TT	CC	1946973992
SNP_P4_142407_13107	NW_004516111.1	Scaffold708	13107	AA	GG	1946973994
SNP_P4_142408_13117	NW_004516111.1	Scaffold708	13117	AA	CC	1946973996
SNP_P4_142409_13119	NW_004516111.1	Scaffold708	13119	TT	AA	1946973999
SNP_P4_142410_13172	NW_004516111.1	Scaffold708	13172	AA	GG	1946974001
SNP_P4_142411_13187	NW_004516111.1	Scaffold708	13187	GG	TT	1946974003
SNP_P4_142412_14235	NW_004516111.1	Scaffold708	14235	CC	TT	1946974005
SNP_P4_142413_14447	NW_004516111.1	Scaffold708	14447	AA	GG	1946974007
SNP_P4_142414_19468	NW_004516111.1	Scaffold708	19468	TT	CC	1946974009
SNP_P4_142415_33374	NW_004516111.1	Scaffold708	33374	TT	GG	1946974012
SNP_P4_142416_40746	NW_004516111.1	Scaffold708	40746	AA	TT	1946974014
SNP_P4_142417_40777	NW_004516111.1	Scaffold708	40777	AA	TT	1946974016
SNP_P4_142418_43934	NW_004516111.1	Scaffold708	43934	AA	GG	1946974018
SNP_P4_142419_44009	NW_004516111.1	Scaffold708	44009	GG	CC	1946974020
SNP_P4_142420_44012	NW_004516111.1	Scaffold708	44012	CC	GG	1946974022
SNP_P4_142421_50137	NW_004516111.1	Scaffold708	50137	TT	CC	1946974024
SNP_P4_142422_50234	NW_004516111.1	Scaffold708	50234	TT	CC	1946974026
SNP_P4_142423_50293	NW_004516111.1	Scaffold708	50293	TT	CC	1946974028
SNP_P4_142424_50311	NW_004516111.1	Scaffold708	50311	TT	CC	1946974030
SNP_P4_142425_1320	NW_004516112.1	Scaffold709	1320	GG	TT	1946974032
SNP_P4_142427_1890	NW_004516112.1	Scaffold709	1890	GG	CC	1946974034
SNP_P4_142428_1971	NW_004516112.1	Scaffold709	1971	TT	AA	1946974036
SNP_P4_142429_2009	NW_004516112.1	Scaffold709	2009	AA	TT	1946974039
SNP_P4_142430_2014	NW_004516112.1	Scaffold709	2014	AA	GG	1946974041
SNP_P4_142431_2046	NW_004516112.1	Scaffold709	2046	AA	TT	1946974043
SNP_P4_142432_2097	NW_004516112.1	Scaffold709	2097	CC	GG	1946974045
SNP_P4_142433_2233	NW_004516112.1	Scaffold709	2233	GG	AA	1946974047
SNP_P4_142434_2243	NW_004516112.1	Scaffold709	2243	AA	GG	1946974049
SNP_P4_142435_2285	NW_004516112.1	Scaffold709	2285	AA	GG	1946974052

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_142437_2331	NW_004516112.1	Scaffold709	2331	TT	CC	1946974056
SNP_P4_142438_2335	NW_004516112.1	Scaffold709	2335	AA	GG	1946974058
SNP_P4_142439_2342	NW_004516112.1	Scaffold709	2342	AA	GG	1946974060
SNP_P4_142440_4004	NW_004516112.1	Scaffold709	4004	TT	GG	1946974062
SNP_P4_142443_7064	NW_004516112.1	Scaffold709	7064	AA	GG	1946974064
SNP_P4_142444_7082	NW_004516112.1	Scaffold709	7082	TT	AA	1946974066
SNP_P4_142445_7154	NW_004516112.1	Scaffold709	7154	AA	TT	1946974068
SNP_P4_142446_7309	NW_004516112.1	Scaffold709	7309	GG	CC	1946974070
SNP_P4_142447_7356	NW_004516112.1	Scaffold709	7356	GG	AA	1946974072
SNP_P4_142448_7395	NW_004516112.1	Scaffold709	7395	CC	TT	1946974074
SNP_P4_142449_7399	NW_004516112.1	Scaffold709	7399	GG	AA	1946974076
SNP_P4_142450_7414	NW_004516112.1	Scaffold709	7414	TT	GG	1946974078
SNP_P4_142451_7421	NW_004516112.1	Scaffold709	7421	GG	TT	1946974080
SNP_P4_142452_7448	NW_004516112.1	Scaffold709	7448	CC	AA	1946974082
SNP_P4_142453_7528	NW_004516112.1	Scaffold709	7528	GG	TT	1946974084
SNP_P4_142454_7542	NW_004516112.1	Scaffold709	7542	CC	TT	1946974086
SNP_P4_142455_7588	NW_004516112.1	Scaffold709	7588	GG	TT	1946974088
SNP_P4_142456_7619	NW_004516112.1	Scaffold709	7619	TT	CC	1946974090
SNP_P4_142457_7659	NW_004516112.1	Scaffold709	7659	TT	CC	1946974092
SNP_P4_142458_7780	NW_004516112.1	Scaffold709	7780	GG	AA	1946974094
SNP_P4_142459_7799	NW_004516112.1	Scaffold709	7799	CC	TT	1946974096
SNP_P4_142461_11192	NW_004516113.1	Scaffold711	11192	TT	GG	1946974098
SNP_P4_142462_36031	NW_004516113.1	Scaffold711	36031	AA	CC	1946974100
SNP_P4_142463_36052	NW_004516113.1	Scaffold711	36052	AA	TT	1946974102
SNP_P4_142464_36085	NW_004516113.1	Scaffold711	36085	GG	AA	1946974104
SNP_P4_142465_36115	NW_004516113.1	Scaffold711	36115	CC	TT	1946974106
SNP_P4_142467_36300	NW_004516113.1	Scaffold711	36300	AA	GG	1946974108
SNP_P4_142468_36313	NW_004516113.1	Scaffold711	36313	GG	AA	1946974110
SNP_P4_142469_36331	NW_004516113.1	Scaffold711	36331	CC	AA	1946974112
SNP_P4_142470_36337	NW_004516113.1	Scaffold711	36337	CC	AA	1946974114
SNP_P4_142471_36349	NW_004516113.1	Scaffold711	36349	CC	TT	1946974116
SNP_P4_142472_36372	NW_004516113.1	Scaffold711	36372	GG	AA	1946974118
SNP_P4_142473_39034	NW_004516113.1	Scaffold711	39034	CC	TT	1946974120
SNP_P4_142474_40033	NW_004516113.1	Scaffold711	40033	CC	TT	1946974122
SNP_P4_142476_79841	NW_004516113.1	Scaffold711	79841	GG	AA	1946974124
SNP_P4_142478_120400	NW_004516113.1	Scaffold711	120400	TT	CC	1946974126
SNP_P4_142479_134970	NW_004516113.1	Scaffold711	134970	GG	AA	1946974128
SNP_P4_142480_148936	NW_004516113.1	Scaffold711	148936	TT	CC	1946974130
SNP_P4_142481_148942	NW_004516113.1	Scaffold711	148942	CC	AA	1946974132
SNP_P4_142482_148945	NW_004516113.1	Scaffold711	148945	AA	GG	1946974134
SNP_P4_142483_149023	NW_004516113.1	Scaffold711	149023	AA	GG	1946974136

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_142485_152450	NW_004516113.1	Scaffold711	152450	AA	TT	1946974140
SNP_P4_142486_167921	NW_004516113.1	Scaffold711	167921	GG	CC	1946974142
SNP_P4_142487_180696	NW_004516113.1	Scaffold711	180696	GG	TT	1946974144
SNP_P4_142488_180705	NW_004516113.1	Scaffold711	180705	AA	TT	1946974146
SNP_P4_142489_188252	NW_004516113.1	Scaffold711	188252	GG	AA	1946974148
SNP_P4_142490_198449	NW_004516113.1	Scaffold711	198449	AA	TT	1946974150
SNP_P4_142492_235609	NW_004516113.1	Scaffold711	235609	CC	TT	1946974152
SNP_P4_142493_243182	NW_004516113.1	Scaffold711	243182	TT	CC	1946974154
SNP_P4_142494_5181	NW_004516114.1	Scaffold712	5181	CC	TT	1946974156
SNP_P4_142495_5652	NW_004516114.1	Scaffold712	5652	TT	GG	1946974158
SNP_P4_142496_8140	NW_004516114.1	Scaffold712	8140	AA	TT	1946974160
SNP_P4_142497_8161	NW_004516114.1	Scaffold712	8161	CC	AA	1946974162
SNP_P4_142498_1074	NW_004516115.1	Scaffold715	1074	CC	TT	1946974164
SNP_P4_142499_1234	NW_004516115.1	Scaffold715	1234	AA	GG	1946974166
SNP_P4_142500_1540	NW_004516115.1	Scaffold715	1540	CC	AA	1946974168
SNP_P4_142501_5483	NW_004516115.1	Scaffold715	5483	CC	TT	1946974170
SNP_P4_142502_5514	NW_004516115.1	Scaffold715	5514	GG	AA	1946974172
SNP_P4_142503_5284	NW_004516116.1	Scaffold716	5284	AA	GG	1946974174
SNP_P4_142504_5314	NW_004516116.1	Scaffold716	5314	CC	AA	1946974176
SNP_P4_142505_13799	NW_004516116.1	Scaffold716	13799	CC	AA	1946974178
SNP_P4_142506_13829	NW_004516116.1	Scaffold716	13829	GG	TT	1946974180
SNP_P4_142507_14179	NW_004516116.1	Scaffold716	14179	TT	CC	1946974182
SNP_P4_142508_14233	NW_004516116.1	Scaffold716	14233	CC	TT	1946974183
SNP_P4_142509_21694	NW_004516116.1	Scaffold716	21694	AA	GG	1946974185
SNP_P4_142510_21726	NW_004516116.1	Scaffold716	21726	AA	GG	1946974187
SNP_P4_142511_23248	NW_004516116.1	Scaffold716	23248	AA	GG	1946974189
SNP_P4_142512_23279	NW_004516116.1	Scaffold716	23279	GG	AA	1946974191
SNP_P4_142513_23340	NW_004516116.1	Scaffold716	23340	CC	TT	1946974193
SNP_P4_142514_23467	NW_004516116.1	Scaffold716	23467	TT	AA	1946974195
SNP_P4_142515_23553	NW_004516116.1	Scaffold716	23553	TT	CC	1946974197
SNP_P4_142516_23580	NW_004516116.1	Scaffold716	23580	AA	GG	1946974199
SNP_P4_142517_23622	NW_004516116.1	Scaffold716	23622	AA	GG	1946974201
SNP_P4_142519_23755	NW_004516116.1	Scaffold716	23755	TT	CC	1946974203
SNP_P4_142520_23764	NW_004516116.1	Scaffold716	23764	AA	TT	1946974205
SNP_P4_142521_23790	NW_004516116.1	Scaffold716	23790	TT	CC	1946974207
SNP_P4_142522_46053	NW_004516116.1	Scaffold716	46053	AA	TT	1946974209
SNP_P4_142523_46217	NW_004516116.1	Scaffold716	46217	TT	GG	1946974211
SNP_P4_142524_46223	NW_004516116.1	Scaffold716	46223	AA	GG	1946974213
SNP_P4_142525_46419	NW_004516116.1	Scaffold716	46419	TT	AA	1946974215
SNP_P4_142526_46469	NW_004516116.1	Scaffold716	46469	AA	GG	1946974217
SNP_P4_142527_64436	NW_004516116.1	Scaffold716	64436	AA	CC	1946974219

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_142529_64519	NW_004516116.1	Scaffold716	64519	CC	TT	1946974223
SNP_P4_142530_64905	NW_004516116.1	Scaffold716	64905	GG	TT	1946974225
SNP_P4_142531_66142	NW_004516116.1	Scaffold716	66142	AA	TT	1946974227
SNP_P4_142532_66145	NW_004516116.1	Scaffold716	66145	TT	CC	1946974229
SNP_P4_142533_66199	NW_004516116.1	Scaffold716	66199	CC	TT	1946974231
SNP_P4_142534_66201	NW_004516116.1	Scaffold716	66201	AA	GG	1946974233
SNP_P4_142535_66206	NW_004516116.1	Scaffold716	66206	AA	GG	1946974235
SNP_P4_142537_66457	NW_004516116.1	Scaffold716	66457	CC	AA	1946974237
SNP_P4_142538_83653	NW_004516116.1	Scaffold716	83653	GG	AA	1946974239
SNP_P4_142539_89842	NW_004516116.1	Scaffold716	89842	TT	AA	1946974241
SNP_P4_142540_89917	NW_004516116.1	Scaffold716	89917	AA	CC	1946974243
SNP_P4_142541_109692	NW_004516116.1	Scaffold716	109692	TT	CC	1946974245
SNP_P4_142542_109733	NW_004516116.1	Scaffold716	109733	AA	GG	1946974247
SNP_P4_142543_109749	NW_004516116.1	Scaffold716	109749	CC	TT	1946974249
SNP_P4_142544_109987	NW_004516116.1	Scaffold716	109987	CC	GG	1946974251
SNP_P4_142545_109988	NW_004516116.1	Scaffold716	109988	TT	GG	1946974253
SNP_P4_142546_110793	NW_004516116.1	Scaffold716	110793	CC	TT	1946974255
SNP_P4_142548_116851	NW_004516116.1	Scaffold716	116851	TT	CC	1946974257
SNP_P4_142550_117783	NW_004516116.1	Scaffold716	117783	TT	CC	1946974259
SNP_P4_142551_117794	NW_004516116.1	Scaffold716	117794	TT	CC	1946974261
SNP_P4_142552_117848	NW_004516116.1	Scaffold716	117848	AA	GG	1946974263
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SNP_P4_142555_117890	NW_004516116.1	Scaffold716	117890	TT	CC	1946974269
SNP_P4_142556_118038	NW_004516116.1	Scaffold716	118038	GG	CC	1946974271
SNP_P4_142557_118189	NW_004516116.1	Scaffold716	118189	TT	GG	1946974273
SNP_P4_142558_118359	NW_004516116.1	Scaffold716	118359	AA	GG	1946974275
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SNP_P4_142561_119740	NW_004516116.1	Scaffold716	119740	GG	AA	1946974281
SNP_P4_142562_119749	NW_004516116.1	Scaffold716	119749	GG	AA	1946974283
SNP_P4_142563_121181	NW_004516116.1	Scaffold716	121181	GG	AA	1946974285
SNP_P4_142564_131595	NW_004516116.1	Scaffold716	131595	CC	TT	1946974287
SNP_P4_142566_156040	NW_004516116.1	Scaffold716	156040	TT	CC	1946974289
SNP_P4_142567_161732	NW_004516116.1	Scaffold716	161732	GG	AA	1946974291
SNP_P4_142568_163506	NW_004516116.1	Scaffold716	163506	AA	GG	1946974293
SNP_P4_142570_164942	NW_004516116.1	Scaffold716	164942	GG	AA	1946974295
SNP_P4_142571_168390	NW_004516116.1	Scaffold716	168390	AA	GG	1946974297
SNP_P4_142572_168411	NW_004516116.1	Scaffold716	168411	AA	TT	1946974299
SNP_P4_142573_171071	NW_004516116.1	Scaffold716	171071	GG	TT	1946974301
SNP_P4_142574_172735	NW_004516116.1	Scaffold716	172735	TT	GG	1946974303

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_142575_174128	NW_004516116.1	Scaffold716	174128	AA	GG	1946974305
SNP_P4_142576_181428	NW_004516116.1	Scaffold716	181428	AA	TT	1946974307
SNP_P4_142577_181435	NW_004516116.1	Scaffold716	181435	TT	CC	1946974309
SNP_P4_142578_181438	NW_004516116.1	Scaffold716	181438	AA	TT	1946974311
SNP_P4_142579_181450	NW_004516116.1	Scaffold716	181450	GG	TT	1946974313
SNP_P4_142580_181453	NW_004516116.1	Scaffold716	181453	AA	CC	1946974315
SNP_P4_142581_182741	NW_004516116.1	Scaffold716	182741	GG	AA	1946974317
SNP_P4_142582_185897	NW_004516116.1	Scaffold716	185897	AA	GG	1946974319
SNP_P4_142583_186277	NW_004516116.1	Scaffold716	186277	AA	GG	1946974321
SNP_P4_142584_187106	NW_004516116.1	Scaffold716	187106	TT	CC	1946974323
SNP_P4_142586_191163	NW_004516116.1	Scaffold716	191163	CC	AA	1946974325
SNP_P4_142587_192635	NW_004516116.1	Scaffold716	192635	GG	AA	1946974327
SNP_P4_142589_194136	NW_004516116.1	Scaffold716	194136	CC	TT	1946974329
SNP_P4_142590_201175	NW_004516116.1	Scaffold716	201175	AA	GG	1946974331
SNP_P4_142591_201604	NW_004516116.1	Scaffold716	201604	GG	AA	1946974333
SNP_P4_142592_219826	NW_004516116.1	Scaffold716	219826	TT	GG	1946974335
SNP_P4_142593_226643	NW_004516116.1	Scaffold716	226643	GG	AA	1946974337
SNP_P4_142594_228761	NW_004516116.1	Scaffold716	228761	AA	GG	1946974339
SNP_P4_142596_244842	NW_004516116.1	Scaffold716	244842	CC	TT	1946974341
SNP_P4_142597_246281	NW_004516116.1	Scaffold716	246281	CC	GG	1946974343
SNP_P4_142598_248082	NW_004516116.1	Scaffold716	248082	TT	GG	1946974345
SNP_P4_142599_248084	NW_004516116.1	Scaffold716	248084	CC	TT	1946974347
SNP_P4_142600_248106	NW_004516116.1	Scaffold716	248106	TT	AA	1946974348
SNP_P4_142601_248115	NW_004516116.1	Scaffold716	248115	AA	GG	1946974350
SNP_P4_142602_248119	NW_004516116.1	Scaffold716	248119	CC	TT	1946974352
SNP_P4_142603_248147	NW_004516116.1	Scaffold716	248147	CC	TT	1946974354
SNP_P4_142604_248150	NW_004516116.1	Scaffold716	248150	CC	AA	1946974356
SNP_P4_142605_251593	NW_004516116.1	Scaffold716	251593	AA	GG	1946974358
SNP_P4_142606_263312	NW_004516116.1	Scaffold716	263312	GG	AA	1946974360
SNP_P4_142607_263466	NW_004516116.1	Scaffold716	263466	GG	TT	1946974362
SNP_P4_142608_263547	NW_004516116.1	Scaffold716	263547	TT	CC	1946974364
SNP_P4_142609_263621	NW_004516116.1	Scaffold716	263621	TT	CC	1946974366
SNP_P4_142610_263629	NW_004516116.1	Scaffold716	263629	TT	AA	1946974368
SNP_P4_142611_263663	NW_004516116.1	Scaffold716	263663	CC	TT	1946974370
SNP_P4_142612_263670	NW_004516116.1	Scaffold716	263670	GG	AA	1946974371
SNP_P4_142613_263739	NW_004516116.1	Scaffold716	263739	CC	TT	1946974373
SNP_P4_142614_263740	NW_004516116.1	Scaffold716	263740	AA	GG	1946974375
SNP_P4_142615_272974	NW_004516116.1	Scaffold716	272974	CC	TT	1946974377
SNP_P4_142616_273007	NW_004516116.1	Scaffold716	273007	CC	TT	1946974379
SNP_P4_142617_273015	NW_004516116.1	Scaffold716	273015	GG	AA	1946974381
SNP_P4_142618_273045	NW_004516116.1	Scaffold716	273045	CC	TT	1946974383
SNP_P4_142619_273066	NW_004516116.1	Scaffold716	273066	AA	GG	1946974385

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_142621_274666	NW_004516116.1	Scaffold716	274666	TT	CC	1946974389
SNP_P4_142622_274668	NW_004516116.1	Scaffold716	274668	TT	CC	1946974391
SNP_P4_142623_280828	NW_004516116.1	Scaffold716	280828	AA	TT	1946974393
SNP_P4_142624_313785	NW_004516116.1	Scaffold716	313785	CC	GG	1946974395
SNP_P4_142625_314940	NW_004516116.1	Scaffold716	314940	AA	GG	1946974397
SNP_P4_142626_320071	NW_004516116.1	Scaffold716	320071	CC	TT	1946974399
SNP_P4_142627_345283	NW_004516116.1	Scaffold716	345283	GG	TT	1946974401
SNP_P4_142628_351941	NW_004516116.1	Scaffold716	351941	CC	TT	1946974403
SNP_P4_142630_390724	NW_004516116.1	Scaffold716	390724	AA	TT	1946974405
SNP_P4_142631_397276	NW_004516116.1	Scaffold716	397276	TT	GG	1946974407
SNP_P4_142632_397425	NW_004516116.1	Scaffold716	397425	CC	AA	1946974409
SNP_P4_142633_397601	NW_004516116.1	Scaffold716	397601	CC	TT	1946974411
SNP_P4_142634_397603	NW_004516116.1	Scaffold716	397603	GG	CC	1946974413
SNP_P4_142635_397608	NW_004516116.1	Scaffold716	397608	GG	TT	1946974415
SNP_P4_142636_397611	NW_004516116.1	Scaffold716	397611	GG	AA	1946974417
SNP_P4_142637_397640	NW_004516116.1	Scaffold716	397640	TT	CC	1946974419
SNP_P4_142638_397641	NW_004516116.1	Scaffold716	397641	TT	CC	1946974421
SNP_P4_142639_397659	NW_004516116.1	Scaffold716	397659	AA	GG	1946974423
SNP_P4_142640_397676	NW_004516116.1	Scaffold716	397676	AA	TT	1946974425
SNP_P4_142641_397823	NW_004516116.1	Scaffold716	397823	TT	CC	1946974427
SNP_P4_142642_397824	NW_004516116.1	Scaffold716	397824	AA	GG	1946974429
SNP_P4_142643_405178	NW_004516116.1	Scaffold716	405178	GG	TT	1946974431
SNP_P4_142644_405368	NW_004516116.1	Scaffold716	405368	CC	TT	1946974433
SNP_P4_142645_2862	NW_004516117.1	Scaffold717	2862	AA	GG	1946974435
SNP_P4_142646_2874	NW_004516117.1	Scaffold717	2874	TT	AA	1946974437
SNP_P4_142648_2405	NW_004516118.1	Scaffold719	2405	TT	CC	1946974439
SNP_P4_142649_8898	NW_004516118.1	Scaffold719	8898	AA	GG	1946974441
SNP_P4_142650_8912	NW_004516118.1	Scaffold719	8912	TT	GG	1946974443
SNP_P4_142651_9505	NW_004516118.1	Scaffold719	9505	AA	GG	1946974445
SNP_P4_142652_9522	NW_004516118.1	Scaffold719	9522	GG	AA	1946974447
SNP_P4_142653_9528	NW_004516118.1	Scaffold719	9528	AA	GG	1946974449
SNP_P4_142654_9750	NW_004516118.1	Scaffold719	9750	AA	GG	1946974451
SNP_P4_142655_9873	NW_004516118.1	Scaffold719	9873	GG	TT	1946974453
SNP_P4_142656_9936	NW_004516118.1	Scaffold719	9936	AA	TT	1946974455
SNP_P4_142657_9937	NW_004516118.1	Scaffold719	9937	TT	AA	1946974457
SNP_P4_142658_10035	NW_004516118.1	Scaffold719	10035	GG	AA	1946974459
SNP_P4_142659_10038	NW_004516118.1	Scaffold719	10038	AA	TT	1946974461
SNP_P4_142660_12135	NW_004516118.1	Scaffold719	12135	GG	TT	1946974463
SNP_P4_142662_12164	NW_004516118.1	Scaffold719	12164	CC	AA	1946974465
SNP_P4_142663_12204	NW_004516118.1	Scaffold719	12204	TT	AA	1946974467
SNP_P4_142664_12488	NW_004516118.1	Scaffold719	12488	GG	AA	1946974469

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_142666_12499	NW_004516118.1	Scaffold719	12499	TT	CC	1946974473
SNP_P4_142667_12519	NW_004516118.1	Scaffold719	12519	AA	CC	1946974475
SNP_P4_142668_12577	NW_004516118.1	Scaffold719	12577	TT	CC	1946974477
SNP_P4_142669_14849	NW_004516118.1	Scaffold719	14849	GG	AA	1946974479
SNP_P4_142670_14924	NW_004516118.1	Scaffold719	14924	TT	GG	1946974481
SNP_P4_142671_15297	NW_004516118.1	Scaffold719	15297	AA	CC	1946974483
SNP_P4_142674_20794	NW_004516118.1	Scaffold719	20794	CC	TT	1946974485
SNP_P4_142675_31756	NW_004516118.1	Scaffold719	31756	GG	AA	1946974487
SNP_P4_142676_32264	NW_004516118.1	Scaffold719	32264	AA	CC	1946974489
SNP_P4_142677_34180	NW_004516118.1	Scaffold719	34180	AA	GG	1946974491
SNP_P4_142678_35226	NW_004516118.1	Scaffold719	35226	TT	AA	1946974493
SNP_P4_142679_35229	NW_004516118.1	Scaffold719	35229	GG	TT	1946974495
SNP_P4_142680_35231	NW_004516118.1	Scaffold719	35231	GG	AA	1946974497
SNP_P4_142681_35905	NW_004516118.1	Scaffold719	35905	GG	TT	1946974499
SNP_P4_142682_41821	NW_004516118.1	Scaffold719	41821	CC	GG	1946974501
SNP_P4_142683_41968	NW_004516118.1	Scaffold719	41968	CC	TT	1946974503
SNP_P4_142684_49642	NW_004516118.1	Scaffold719	49642	CC	TT	1946974505
SNP_P4_142685_50335	NW_004516118.1	Scaffold719	50335	AA	TT	1946974507
SNP_P4_142686_54082	NW_004516118.1	Scaffold719	54082	TT	CC	1946974509
SNP_P4_142687_57800	NW_004516118.1	Scaffold719	57800	GG	AA	1946974511
SNP_P4_142689_85036	NW_004516118.1	Scaffold719	85036	GG	TT	1946974513
SNP_P4_142690_85076	NW_004516118.1	Scaffold719	85076	CC	TT	1946974515
SNP_P4_142691_85091	NW_004516118.1	Scaffold719	85091	TT	AA	1946974517
SNP_P4_142692_85107	NW_004516118.1	Scaffold719	85107	TT	CC	1946974519
SNP_P4_142693_99399	NW_004516118.1	Scaffold719	99399	AA	GG	1946974521
SNP_P4_142694_101418	NW_004516118.1	Scaffold719	101418	TT	CC	1946974523
SNP_P4_142695_108799	NW_004516118.1	Scaffold719	108799	GG	AA	1946974525
SNP_P4_142696_108819	NW_004516118.1	Scaffold719	108819	CC	GG	1946974527
SNP_P4_142697_108837	NW_004516118.1	Scaffold719	108837	CC	TT	1946974529
SNP_P4_142698_108847	NW_004516118.1	Scaffold719	108847	AA	GG	1946974531
SNP_P4_142699_108858	NW_004516118.1	Scaffold719	108858	AA	GG	1946974533
SNP_P4_142700_108891	NW_004516118.1	Scaffold719	108891	AA	TT	1946974535
SNP_P4_142701_109107	NW_004516118.1	Scaffold719	109107	CC	AA	1946974537
SNP_P4_142702_109643	NW_004516118.1	Scaffold719	109643	GG	AA	1946974539
SNP_P4_142703_109684	NW_004516118.1	Scaffold719	109684	TT	AA	1946974541
SNP_P4_142704_109692	NW_004516118.1	Scaffold719	109692	TT	AA	1946974543
SNP_P4_142705_110015	NW_004516118.1	Scaffold719	110015	GG	TT	1946974545
SNP_P4_142706_110034	NW_004516118.1	Scaffold719	110034	TT	CC	1946974547
SNP_P4_142707_110440	NW_004516118.1	Scaffold719	110440	AA	TT	1946974549
SNP_P4_142708_110496	NW_004516118.1	Scaffold719	110496	AA	GG	1946974551
SNP_P4_142709_110601	NW_004516118.1	Scaffold719	110601	TT	CC	1946974553

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_142711_110604	NW_004516118.1	Scaffold719	110604	AA	GG	1946974557
SNP_P4_142712_110755	NW_004516118.1	Scaffold719	110755	AA	TT	1946974559
SNP_P4_142713_123356	NW_004516118.1	Scaffold719	123356	AA	TT	1946974561
SNP_P4_142714_123432	NW_004516118.1	Scaffold719	123432	TT	CC	1946974563
SNP_P4_142715_123491	NW_004516118.1	Scaffold719	123491	CC	GG	1946974565
SNP_P4_142716_123492	NW_004516118.1	Scaffold719	123492	TT	CC	1946974567
SNP_P4_142717_123532	NW_004516118.1	Scaffold719	123532	TT	AA	1946974569
SNP_P4_142718_123580	NW_004516118.1	Scaffold719	123580	GG	TT	1946974571
SNP_P4_142719_123584	NW_004516118.1	Scaffold719	123584	AA	TT	1946974573
SNP_P4_142720_123588	NW_004516118.1	Scaffold719	123588	TT	CC	1946974575
SNP_P4_142721_123608	NW_004516118.1	Scaffold719	123608	TT	CC	1946974577
SNP_P4_142722_123702	NW_004516118.1	Scaffold719	123702	AA	GG	1946974579
SNP_P4_142724_123770	NW_004516118.1	Scaffold719	123770	CC	AA	1946974581
SNP_P4_142725_123785	NW_004516118.1	Scaffold719	123785	AA	TT	1946974583
SNP_P4_142726_123813	NW_004516118.1	Scaffold719	123813	GG	AA	1946974585
SNP_P4_142727_123974	NW_004516118.1	Scaffold719	123974	TT	CC	1946974587
SNP_P4_142728_124392	NW_004516118.1	Scaffold719	124392	GG	AA	1946974589
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SNP_P4_142731_125408	NW_004516118.1	Scaffold719	125408	GG	AA	1946974595
SNP_P4_142732_125893	NW_004516118.1	Scaffold719	125893	GG	AA	1946974597
SNP_P4_142733_127165	NW_004516118.1	Scaffold719	127165	AA	GG	1946974599
SNP_P4_142734_127166	NW_004516118.1	Scaffold719	127166	AA	TT	1946974601
SNP_P4_142735_127180	NW_004516118.1	Scaffold719	127180	AA	GG	1946974603
SNP_P4_142736_127191	NW_004516118.1	Scaffold719	127191	AA	TT	1946974605
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SNP_P4_142739_128123	NW_004516118.1	Scaffold719	128123	GG	AA	1946974611
SNP_P4_142740_128526	NW_004516118.1	Scaffold719	128526	TT	CC	1946974612
SNP_P4_142741_128594	NW_004516118.1	Scaffold719	128594	TT	CC	1946974614
SNP_P4_142742_128616	NW_004516118.1	Scaffold719	128616	AA	TT	1946974616
SNP_P4_142743_128946	NW_004516118.1	Scaffold719	128946	CC	TT	1946974618
SNP_P4_142744_887	NW_004516119.1	Scaffold720	887	CC	TT	1946974620
SNP_P4_142745_961	NW_004516119.1	Scaffold720	961	CC	TT	1946974622
SNP_P4_142746_963	NW_004516119.1	Scaffold720	963	AA	GG	1946974624
SNP_P4_142747_1277	NW_004516119.1	Scaffold720	1277	TT	AA	1946974626
SNP_P4_142748_1314	NW_004516119.1	Scaffold720	1314	AA	TT	1946974628
SNP_P4_142749_1371	NW_004516119.1	Scaffold720	1371	CC	TT	1946974630
SNP_P4_142750_18262	NW_004516119.1	Scaffold720	18262	TT	CC	1946974632
SNP_P4_142751_18273	NW_004516119.1	Scaffold720	18273	GG	AA	1946974634
SNP_P4_142752_18278	NW_004516119.1	Scaffold720	18278	GG	AA	1946974636

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_142754_18985	NW_004516119.1	Scaffold720	18985	GG	CC	1946974640
SNP_P4_142755_53725	NW_004516119.1	Scaffold720	53725	AA	GG	1946974642
SNP_P4_142756_54782	NW_004516119.1	Scaffold720	54782	AA	TT	1946974644
SNP_P4_142757_76938	NW_004516119.1	Scaffold720	76938	AA	GG	1946974646
SNP_P4_142758_77066	NW_004516119.1	Scaffold720	77066	TT	AA	1946974648
SNP_P4_142759_77108	NW_004516119.1	Scaffold720	77108	CC	GG	1946974650
SNP_P4_142760_77184	NW_004516119.1	Scaffold720	77184	TT	CC	1946974652
SNP_P4_142761_111479	NW_004516119.1	Scaffold720	111479	CC	AA	1946974654
SNP_P4_142762_121859	NW_004516119.1	Scaffold720	121859	TT	AA	1946974656
SNP_P4_142763_121975	NW_004516119.1	Scaffold720	121975	GG	TT	1946974658
SNP_P4_142764_122024	NW_004516119.1	Scaffold720	122024	TT	CC	1946974660
SNP_P4_142765_122265	NW_004516119.1	Scaffold720	122265	AA	GG	1946974662
SNP_P4_142766_150574	NW_004516119.1	Scaffold720	150574	AA	CC	1946974664
SNP_P4_142767_158120	NW_004516119.1	Scaffold720	158120	TT	AA	1946974666
SNP_P4_142768_163244	NW_004516119.1	Scaffold720	163244	CC	AA	1946974668
SNP_P4_142769_163276	NW_004516119.1	Scaffold720	163276	CC	TT	1946974670
SNP_P4_142770_163693	NW_004516119.1	Scaffold720	163693	GG	CC	1946974672
SNP_P4_142771_170335	NW_004516119.1	Scaffold720	170335	AA	GG	1946974674
SNP_P4_142772_179269	NW_004516119.1	Scaffold720	179269	TT	AA	1946974676
SNP_P4_142773_179437	NW_004516119.1	Scaffold720	179437	TT	CC	1946974678
SNP_P4_142774_179438	NW_004516119.1	Scaffold720	179438	GG	CC	1946974680
SNP_P4_142776_179581	NW_004516119.1	Scaffold720	179581	CC	TT	1946974682
SNP_P4_142778_211326	NW_004516119.1	Scaffold720	211326	TT	AA	1946974684
SNP_P4_142779_211338	NW_004516119.1	Scaffold720	211338	AA	GG	1946974686
SNP_P4_142780_212750	NW_004516119.1	Scaffold720	212750	CC	TT	1946974688
SNP_P4_142781_212752	NW_004516119.1	Scaffold720	212752	CC	AA	1946974690
SNP_P4_142782_212794	NW_004516119.1	Scaffold720	212794	TT	CC	1946974692
SNP_P4_142783_214155	NW_004516119.1	Scaffold720	214155	TT	AA	1946974694
SNP_P4_142784_214200	NW_004516119.1	Scaffold720	214200	AA	TT	1946974696
SNP_P4_142785_216827	NW_004516119.1	Scaffold720	216827	TT	CC	1946974698
SNP_P4_142786_216830	NW_004516119.1	Scaffold720	216830	AA	GG	1946974700
SNP_P4_142787_221336	NW_004516119.1	Scaffold720	221336	GG	TT	1946974702
SNP_P4_142788_223203	NW_004516119.1	Scaffold720	223203	CC	AA	1946974704
SNP_P4_142789_223684	NW_004516119.1	Scaffold720	223684	AA	GG	1946974706
SNP_P4_142790_241777	NW_004516119.1	Scaffold720	241777	TT	GG	1946974708
SNP_P4_142791_241779	NW_004516119.1	Scaffold720	241779	TT	CC	1946974710
SNP_P4_142792_278111	NW_004516119.1	Scaffold720	278111	CC	TT	1946974712
SNP_P4_142793_278152	NW_004516119.1	Scaffold720	278152	AA	GG	1946974714
SNP_P4_142794_278350	NW_004516119.1	Scaffold720	278350	TT	CC	1946974716
SNP_P4_142795_278711	NW_004516119.1	Scaffold720	278711	TT	CC	1946974718
SNP_P4_142796_294861	NW_004516119.1	Scaffold720	294861	CC	TT	1946974720

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_142797_296566	NW_004516119.1	Scaffold720	296566	AA	TT	1946974722
SNP_P4_142798_296610	NW_004516119.1	Scaffold720	296610	GG	AA	1946974724
SNP_P4_142799_296689	NW_004516119.1	Scaffold720	296689	TT	AA	1946974726
SNP_P4_142800_296865	NW_004516119.1	Scaffold720	296865	AA	GG	1946974728
SNP_P4_142801_296871	NW_004516119.1	Scaffold720	296871	TT	GG	1946974730
SNP_P4_142802_297034	NW_004516119.1	Scaffold720	297034	CC	AA	1946974732
SNP_P4_142803_297071	NW_004516119.1	Scaffold720	297071	TT	CC	1946974734
SNP_P4_142804_297195	NW_004516119.1	Scaffold720	297195	AA	GG	1946974736
SNP_P4_142805_297250	NW_004516119.1	Scaffold720	297250	AA	CC	1946974738
SNP_P4_142806_297258	NW_004516119.1	Scaffold720	297258	CC	TT	1946974740
SNP_P4_142807_297268	NW_004516119.1	Scaffold720	297268	AA	GG	1946974742
SNP_P4_142808_297281	NW_004516119.1	Scaffold720	297281	GG	AA	1946974744
SNP_P4_142809_297341	NW_004516119.1	Scaffold720	297341	AA	CC	1946974746
SNP_P4_142810_297342	NW_004516119.1	Scaffold720	297342	GG	AA	1946974748
SNP_P4_142811_297452	NW_004516119.1	Scaffold720	297452	CC	TT	1946974750
SNP_P4_142812_297522	NW_004516119.1	Scaffold720	297522	AA	CC	1946974752
SNP_P4_142813_297529	NW_004516119.1	Scaffold720	297529	AA	GG	1946974754
SNP_P4_142814_297652	NW_004516119.1	Scaffold720	297652	GG	AA	1946974756
SNP_P4_142815_297690	NW_004516119.1	Scaffold720	297690	GG	AA	1946974758
SNP_P4_142816_297729	NW_004516119.1	Scaffold720	297729	CC	AA	1946974760
SNP_P4_142817_297747	NW_004516119.1	Scaffold720	297747	AA	GG	1946974762
SNP_P4_142818_297797	NW_004516119.1	Scaffold720	297797	AA	CC	1946974764
SNP_P4_142819_297886	NW_004516119.1	Scaffold720	297886	TT	GG	1946974766
SNP_P4_142820_297960	NW_004516119.1	Scaffold720	297960	AA	CC	1946974768
SNP_P4_142821_298098	NW_004516119.1	Scaffold720	298098	CC	TT	1946974770
SNP_P4_142822_298128	NW_004516119.1	Scaffold720	298128	CC	AA	1946974772
SNP_P4_142823_298216	NW_004516119.1	Scaffold720	298216	GG	AA	1946974774
SNP_P4_142824_298269	NW_004516119.1	Scaffold720	298269	GG	TT	1946974776
SNP_P4_142825_298271	NW_004516119.1	Scaffold720	298271	CC	TT	1946974778
SNP_P4_142826_298283	NW_004516119.1	Scaffold720	298283	TT	CC	1946974780
SNP_P4_142827_299038	NW_004516119.1	Scaffold720	299038	GG	TT	1946974782
SNP_P4_142828_299056	NW_004516119.1	Scaffold720	299056	TT	CC	1946974784
SNP_P4_142829_299333	NW_004516119.1	Scaffold720	299333	GG	CC	1946974786
SNP_P4_142830_326096	NW_004516119.1	Scaffold720	326096	GG	CC	1946974788
SNP_P4_142831_327324	NW_004516119.1	Scaffold720	327324	CC	GG	1946974790
SNP_P4_142832_327341	NW_004516119.1	Scaffold720	327341	GG	AA	1946974792
SNP_P4_142833_327372	NW_004516119.1	Scaffold720	327372	CC	TT	1946974794
SNP_P4_142834_327964	NW_004516119.1	Scaffold720	327964	CC	TT	1946974796
SNP_P4_142835_329773	NW_004516119.1	Scaffold720	329773	GG	TT	1946974798
SNP_P4_142837_330841	NW_004516119.1	Scaffold720	330841	CC	GG	1946974800
SNP_P4_142838_330900	NW_004516119.1	Scaffold720	330900	AA	GG	1946974802
SNP_P4_142839_330903	NW_004516119.1	Scaffold720	330903	GG	TT	1946974804

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_142841_330991	NW_004516119.1	Scaffold720	330991	AA	TT	1946974808
SNP_P4_142842_331016	NW_004516119.1	Scaffold720	331016	GG	TT	1946974810
SNP_P4_142843_331025	NW_004516119.1	Scaffold720	331025	AA	TT	1946974812
SNP_P4_142844_331170	NW_004516119.1	Scaffold720	331170	CC	TT	1946974814
SNP_P4_142845_331171	NW_004516119.1	Scaffold720	331171	AA	GG	1946974816
SNP_P4_142846_331172	NW_004516119.1	Scaffold720	331172	GG	AA	1946974818
SNP_P4_142847_333020	NW_004516119.1	Scaffold720	333020	CC	TT	1946974820
SNP_P4_142848_333026	NW_004516119.1	Scaffold720	333026	GG	AA	1946974822
SNP_P4_142849_333055	NW_004516119.1	Scaffold720	333055	CC	GG	1946974824
SNP_P4_142850_333062	NW_004516119.1	Scaffold720	333062	GG	CC	1946974826
SNP_P4_142851_333312	NW_004516119.1	Scaffold720	333312	GG	TT	1946974828
SNP_P4_142852_333409	NW_004516119.1	Scaffold720	333409	CC	TT	1946974830
SNP_P4_142853_333436	NW_004516119.1	Scaffold720	333436	CC	AA	1946974832
SNP_P4_142855_336874	NW_004516119.1	Scaffold720	336874	AA	GG	1946974835
SNP_P4_142856_337076	NW_004516119.1	Scaffold720	337076	AA	TT	1946974837
SNP_P4_142857_337210	NW_004516119.1	Scaffold720	337210	CC	TT	1946974839
SNP_P4_142858_337262	NW_004516119.1	Scaffold720	337262	AA	TT	1946974841
SNP_P4_142859_337391	NW_004516119.1	Scaffold720	337391	TT	CC	1946974843
SNP_P4_142860_337456	NW_004516119.1	Scaffold720	337456	AA	GG	1946974845
SNP_P4_142861_337546	NW_004516119.1	Scaffold720	337546	CC	TT	1946974847
SNP_P4_142862_337844	NW_004516119.1	Scaffold720	337844	TT	CC	1946974849
SNP_P4_142863_337890	NW_004516119.1	Scaffold720	337890	GG	TT	1946974851
SNP_P4_142864_337929	NW_004516119.1	Scaffold720	337929	CC	TT	1946974853
SNP_P4_142865_338153	NW_004516119.1	Scaffold720	338153	AA	GG	1946974855
SNP_P4_142866_338192	NW_004516119.1	Scaffold720	338192	TT	GG	1946974857
SNP_P4_142867_342300	NW_004516119.1	Scaffold720	342300	GG	AA	1946974859
SNP_P4_142868_344937	NW_004516119.1	Scaffold720	344937	GG	AA	1946974861
SNP_P4_142869_344946	NW_004516119.1	Scaffold720	344946	CC	TT	1946974863
SNP_P4_142870_345034	NW_004516119.1	Scaffold720	345034	CC	TT	1946974865
SNP_P4_142871_345039	NW_004516119.1	Scaffold720	345039	CC	TT	1946974867
SNP_P4_142872_345052	NW_004516119.1	Scaffold720	345052	TT	AA	1946974869
SNP_P4_142873_345062	NW_004516119.1	Scaffold720	345062	GG	AA	1946974871
SNP_P4_142874_345138	NW_004516119.1	Scaffold720	345138	GG	TT	1946974873
SNP_P4_142875_345201	NW_004516119.1	Scaffold720	345201	TT	CC	1946974875
SNP_P4_142876_345202	NW_004516119.1	Scaffold720	345202	AA	GG	1946974877
SNP_P4_142877_353463	NW_004516119.1	Scaffold720	353463	CC	TT	1946974879
SNP_P4_142878_353464	NW_004516119.1	Scaffold720	353464	TT	AA	1946974881
SNP_P4_142880_360595	NW_004516119.1	Scaffold720	360595	TT	CC	1946974883
SNP_P4_142881_360726	NW_004516119.1	Scaffold720	360726	TT	CC	1946974885
SNP_P4_142882_360863	NW_004516119.1	Scaffold720	360863	GG	AA	1946974887
SNP_P4_142883_362699	NW_004516119.1	Scaffold720	362699	TT	CC	1946974889

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_142885_362953	NW_004516119.1	Scaffold720	362953	AA	GG	1946974893
SNP_P4_142886_362957	NW_004516119.1	Scaffold720	362957	AA	GG	1946974895
SNP_P4_142887_362994	NW_004516119.1	Scaffold720	362994	AA	GG	1946974897
SNP_P4_142888_363010	NW_004516119.1	Scaffold720	363010	CC	TT	1946974899
SNP_P4_142889_364586	NW_004516119.1	Scaffold720	364586	TT	CC	1946974901
SNP_P4_142890_364685	NW_004516119.1	Scaffold720	364685	CC	TT	1946974903
SNP_P4_142891_364807	NW_004516119.1	Scaffold720	364807	AA	GG	1946974905
SNP_P4_142892_365908	NW_004516119.1	Scaffold720	365908	CC	TT	1946974907
SNP_P4_142893_365920	NW_004516119.1	Scaffold720	365920	TT	AA	1946974909
SNP_P4_142894_366068	NW_004516119.1	Scaffold720	366068	GG	AA	1946974911
SNP_P4_142895_366070	NW_004516119.1	Scaffold720	366070	AA	GG	1946974913
SNP_P4_142896_366072	NW_004516119.1	Scaffold720	366072	TT	CC	1946974915
SNP_P4_142897_369972	NW_004516119.1	Scaffold720	369972	GG	AA	1946974917
SNP_P4_142898_370011	NW_004516119.1	Scaffold720	370011	GG	TT	1946974919
SNP_P4_142899_370028	NW_004516119.1	Scaffold720	370028	GG	AA	1946974921
SNP_P4_142900_370067	NW_004516119.1	Scaffold720	370067	AA	TT	1946974923
SNP_P4_142901_370070	NW_004516119.1	Scaffold720	370070	AA	GG	1946974925
SNP_P4_142902_370137	NW_004516119.1	Scaffold720	370137	TT	CC	1946974927
SNP_P4_142904_370297	NW_004516119.1	Scaffold720	370297	CC	TT	1946974929
SNP_P4_142905_370374	NW_004516119.1	Scaffold720	370374	TT	CC	1946974931
SNP_P4_142906_370465	NW_004516119.1	Scaffold720	370465	TT	AA	1946974933
SNP_P4_142907_370559	NW_004516119.1	Scaffold720	370559	GG	CC	1946974935
SNP_P4_142908_370639	NW_004516119.1	Scaffold720	370639	TT	AA	1946974937
SNP_P4_142910_370725	NW_004516119.1	Scaffold720	370725	AA	GG	1946974939
SNP_P4_142911_370814	NW_004516119.1	Scaffold720	370814	GG	AA	1946974941
SNP_P4_142912_370924	NW_004516119.1	Scaffold720	370924	CC	AA	1946974944
SNP_P4_142913_371463	NW_004516119.1	Scaffold720	371463	AA	TT	1946974946
SNP_P4_142914_371609	NW_004516119.1	Scaffold720	371609	TT	CC	1946974949
SNP_P4_142915_371637	NW_004516119.1	Scaffold720	371637	GG	AA	1946974954
SNP_P4_142916_371886	NW_004516119.1	Scaffold720	371886	GG	AA	1946974956
SNP_P4_142918_13817	NW_004516120.1	Scaffold721	13817	AA	TT	1946974958
SNP_P4_142919_15672	NW_004516120.1	Scaffold721	15672	TT	AA	1946974960
SNP_P4_142920_15945	NW_004516120.1	Scaffold721	15945	AA	TT	1946974962
SNP_P4_142921_16259	NW_004516120.1	Scaffold721	16259	TT	AA	1946974964
SNP_P4_142922_28898	NW_004516120.1	Scaffold721	28898	TT	CC	1946974966
SNP_P4_142923_34254	NW_004516120.1	Scaffold721	34254	TT	GG	1946974968
SNP_P4_142924_35609	NW_004516120.1	Scaffold721	35609	GG	AA	1946974970
SNP_P4_142925_61353	NW_004516120.1	Scaffold721	61353	AA	TT	1946974972
SNP_P4_142926_77608	NW_004516120.1	Scaffold721	77608	TT	CC	1946974974
SNP_P4_142927_77641	NW_004516120.1	Scaffold721	77641	TT	AA	1946974976
SNP_P4_142928_77872	NW_004516120.1	Scaffold721	77872	TT	GG	1946974978

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_142929_79090	NW_004516120.1	Scaffold721	79090	GG	AA	1946974980
SNP_P4_142930_79101	NW_004516120.1	Scaffold721	79101	TT	CC	1946974982
SNP_P4_142931_79106	NW_004516120.1	Scaffold721	79106	AA	TT	1946974984
SNP_P4_142932_79197	NW_004516120.1	Scaffold721	79197	CC	TT	1946974986
SNP_P4_142934_106496	NW_004516120.1	Scaffold721	106496	AA	GG	1946974988
SNP_P4_142935_106546	NW_004516120.1	Scaffold721	106546	CC	TT	1946974990
SNP_P4_142936_106748	NW_004516120.1	Scaffold721	106748	TT	CC	1946974992
SNP_P4_142937_107074	NW_004516120.1	Scaffold721	107074	AA	GG	1946974994
SNP_P4_142938_107085	NW_004516120.1	Scaffold721	107085	CC	TT	1946974996
SNP_P4_142939_107349	NW_004516120.1	Scaffold721	107349	AA	GG	1946974998
SNP_P4_142940_107367	NW_004516120.1	Scaffold721	107367	GG	AA	1946975000
SNP_P4_142941_109087	NW_004516120.1	Scaffold721	109087	AA	GG	1946975002
SNP_P4_142942_109821	NW_004516120.1	Scaffold721	109821	GG	AA	1946975004
SNP_P4_142943_110878	NW_004516120.1	Scaffold721	110878	TT	GG	1946975006
SNP_P4_142944_137470	NW_004516120.1	Scaffold721	137470	TT	CC	1946975008
SNP_P4_142945_146307	NW_004516120.1	Scaffold721	146307	TT	CC	1946975010
SNP_P4_142946_163428	NW_004516120.1	Scaffold721	163428	TT	AA	1946975012
SNP_P4_142947_170575	NW_004516120.1	Scaffold721	170575	CC	TT	1946975014
SNP_P4_142948_187782	NW_004516120.1	Scaffold721	187782	CC	GG	1946975016
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SNP_P4_142950_190511	NW_004516120.1	Scaffold721	190511	CC	TT	1946975020
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SNP_P4_142952_190695	NW_004516120.1	Scaffold721	190695	TT	CC	1946975024
SNP_P4_142953_191055	NW_004516120.1	Scaffold721	191055	TT	GG	1946975026
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SNP_P4_142956_191783	NW_004516120.1	Scaffold721	191783	CC	GG	1946975030
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SNP_P4_142958_10731	NW_004516121.1	Scaffold723	10731	AA	GG	1946975034
SNP_P4_142959_10739	NW_004516121.1	Scaffold723	10739	GG	AA	1946975036
SNP_P4_142960_10788	NW_004516121.1	Scaffold723	10788	AA	CC	1946975038
SNP_P4_142961_10791	NW_004516121.1	Scaffold723	10791	GG	CC	1946975040
SNP_P4_142962_10803	NW_004516121.1	Scaffold723	10803	TT	GG	1946975042
SNP_P4_142963_10845	NW_004516121.1	Scaffold723	10845	CC	AA	1946975044
SNP_P4_142964_10855	NW_004516121.1	Scaffold723	10855	CC	AA	1946975046
SNP_P4_142965_21415	NW_004516122.1	Scaffold724	21415	GG	CC	1946975048
SNP_P4_142967_25019	NW_004516122.1	Scaffold724	25019	GG	AA	1946975050
SNP_P4_142968_40923	NW_004516122.1	Scaffold724	40923	TT	CC	1946975052
SNP_P4_142969_41016	NW_004516122.1	Scaffold724	41016	TT	CC	1946975054
SNP_P4_142970_56752	NW_004516122.1	Scaffold724	56752	GG	AA	1946975056
SNP_P4_142972_60116	NW_004516122.1	Scaffold724	60116	GG	AA	1946975058
SNP_P4_142973_76467	NW_004516122.1	Scaffold724	76467	AA	GG	1946975060
SNP_P4_142974_76487	NW_004516122.1	Scaffold724	76487	GG	TT	1946975061

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_142976_99614	NW_004516122.1	Scaffold724	99614	TT	CC	1946975065
SNP_P4_142977_99654	NW_004516122.1	Scaffold724	99654	AA	TT	1946975067
SNP_P4_142978_99720	NW_004516122.1	Scaffold724	99720	TT	AA	1946975069
SNP_P4_142979_99758	NW_004516122.1	Scaffold724	99758	TT	GG	1946975071
SNP_P4_142980_100070	NW_004516122.1	Scaffold724	100070	GG	AA	1946975073
SNP_P4_142983_100270	NW_004516122.1	Scaffold724	100270	TT	AA	1946975075
SNP_P4_142985_100364	NW_004516122.1	Scaffold724	100364	CC	GG	1946975077
SNP_P4_142986_100430	NW_004516122.1	Scaffold724	100430	TT	CC	1946975079
SNP_P4_142987_100443	NW_004516122.1	Scaffold724	100443	AA	GG	1946975081
SNP_P4_142988_100456	NW_004516122.1	Scaffold724	100456	AA	CC	1946975083
SNP_P4_142989_100461	NW_004516122.1	Scaffold724	100461	AA	TT	1946975085
SNP_P4_142991_100739	NW_004516122.1	Scaffold724	100739	GG	TT	1946975087
SNP_P4_142993_101491	NW_004516122.1	Scaffold724	101491	CC	TT	1946975089
SNP_P4_142994_101623	NW_004516122.1	Scaffold724	101623	TT	AA	1946975091
SNP_P4_142995_103544	NW_004516122.1	Scaffold724	103544	GG	AA	1946975093
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SNP_P4_143018_122	NW_004516123.1	Scaffold725	122	AA	CC	1946975131
SNP_P4_143019_191	NW_004516123.1	Scaffold725	191	AA	GG	1946975133
SNP_P4_143020_340	NW_004516123.1	Scaffold725	340	GG	AA	1946975135
SNP_P4_143021_400	NW_004516123.1	Scaffold725	400	AA	GG	1946975137
SNP_P4_143022_922	NW_004516123.1	Scaffold725	922	GG	AA	1946975139
SNP_P4_143023_923	NW_004516123.1	Scaffold725	923	AA	TT	1946975141
SNP_P4_143024_1315	NW_004516123.1	Scaffold725	1315	CC	AA	1946975143
SNP_P4_143025_17175	NW_004516124.1	Scaffold728	17175	TT	CC	1946975145

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_143030_24388	NW_004516124.1	Scaffold728	24388	CC	TT	1946975153
SNP_P4_143031_24505	NW_004516124.1	Scaffold728	24505	AA	GG	1946975155
SNP_P4_143032_24513	NW_004516124.1	Scaffold728	24513	AA	GG	1946975157
SNP_P4_143035_40657	NW_004516124.1	Scaffold728	40657	CC	AA	1946975160
SNP_P4_143036_42006	NW_004516124.1	Scaffold728	42006	TT	CC	1946975161
SNP_P4_143037_42041	NW_004516124.1	Scaffold728	42041	CC	TT	1946975163
SNP_P4_143038_42076	NW_004516124.1	Scaffold728	42076	CC	TT	1946975165
SNP_P4_143039_42401	NW_004516124.1	Scaffold728	42401	AA	CC	1946975167
SNP_P4_143040_42583	NW_004516124.1	Scaffold728	42583	CC	AA	1946975169
SNP_P4_143041_42650	NW_004516124.1	Scaffold728	42650	GG	AA	1946975171
SNP_P4_143042_42741	NW_004516124.1	Scaffold728	42741	AA	TT	1946975173
SNP_P4_143043_42803	NW_004516124.1	Scaffold728	42803	AA	GG	1946975175
SNP_P4_143044_42866	NW_004516124.1	Scaffold728	42866	GG	AA	1946975177
SNP_P4_143045_42883	NW_004516124.1	Scaffold728	42883	CC	TT	1946975180
SNP_P4_143046_42921	NW_004516124.1	Scaffold728	42921	TT	CC	1946975182
SNP_P4_143047_42971	NW_004516124.1	Scaffold728	42971	TT	CC	1946975184
SNP_P4_143048_42974	NW_004516124.1	Scaffold728	42974	TT	CC	1946975186
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SNP_P4_143050_43184	NW_004516124.1	Scaffold728	43184	AA	CC	1946975190
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SNP_P4_143057_9946	NW_004516125.1	Scaffold731	9946	CC	TT	1946975202
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SNP_P4_143065_27649	NW_004516125.1	Scaffold731	27649	GG	AA	1946975216
SNP_P4_143066_27796	NW_004516125.1	Scaffold731	27796	AA	TT	1946975219
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SNP_P4_143070_46260	NW_004516125.1	Scaffold731	46260	AA	GG	1946975225
SNP_P4_143071_46484	NW_004516125.1	Scaffold731	46484	GG	AA	1946975227
SNP_P4_143073_46500	NW_004516125.1	Scaffold731	46500	AA	TT	1946975229
SNP_P4_143074_46528	NW_004516125.1	Scaffold731	46528	AA	TT	1946975231

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_143078_49357	NW_004516125.1	Scaffold731	49357	TT	CC	1946975239
SNP_P4_143079_49363	NW_004516125.1	Scaffold731	49363	AA	GG	1946975241
SNP_P4_143080_49364	NW_004516125.1	Scaffold731	49364	TT	AA	1946975243
SNP_P4_143081_49483	NW_004516125.1	Scaffold731	49483	AA	GG	1946975246
SNP_P4_143082_49519	NW_004516125.1	Scaffold731	49519	TT	CC	1946975248
SNP_P4_143083_49569	NW_004516125.1	Scaffold731	49569	GG	TT	1946975250
SNP_P4_143084_49573	NW_004516125.1	Scaffold731	49573	CC	TT	1946975252
SNP_P4_143086_62604	NW_004516125.1	Scaffold731	62604	CC	TT	1946975254
SNP_P4_143087_75132	NW_004516125.1	Scaffold731	75132	TT	AA	1946975256
SNP_P4_143090_94777	NW_004516125.1	Scaffold731	94777	TT	CC	1946975258
SNP_P4_143091_102778	NW_004516125.1	Scaffold731	102778	TT	GG	1946975260
SNP_P4_143092_135531	NW_004516125.1	Scaffold731	135531	TT	GG	1946975261
SNP_P4_143093_135753	NW_004516125.1	Scaffold731	135753	TT	CC	1946975262
SNP_P4_143094_135868	NW_004516125.1	Scaffold731	135868	CC	TT	1946975263
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SNP_P4_143112_205692	NW_004516125.1	Scaffold731	205692	TT	GG	1946975301
SNP_P4_143113_205965	NW_004516125.1	Scaffold731	205965	AA	CC	1946975303
SNP_P4_143114_206069	NW_004516125.1	Scaffold731	206069	GG	AA	1946975305
SNP_P4_143115_206128	NW_004516125.1	Scaffold731	206128	TT	CC	1946975307
SNP_P4_143116_216856	NW_004516125.1	Scaffold731	216856	AA	GG	1946975309
SNP_P4_143117_224594	NW_004516125.1	Scaffold731	224594	GG	TT	1946975311
SNP_P4_143118_224857	NW_004516125.1	Scaffold731	224857	AA	CC	1946975313
SNP_P4_143119_229288	NW_004516125.1	Scaffold731	229288	AA	GG	1946975315

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_143123_293863	NW_004516125.1	Scaffold731	293863	TT	CC	1946975321
SNP_P4_143124_293906	NW_004516125.1	Scaffold731	293906	TT	GG	1946975323
SNP_P4_143125_293916	NW_004516125.1	Scaffold731	293916	TT	GG	1946975325
SNP_P4_143126_294098	NW_004516125.1	Scaffold731	294098	TT	CC	1946975327
SNP_P4_143127_294124	NW_004516125.1	Scaffold731	294124	AA	GG	1946975330
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SNP_P4_143131_300969	NW_004516125.1	Scaffold731	300969	TT	CC	1946975337
SNP_P4_143132_300985	NW_004516125.1	Scaffold731	300985	GG	TT	1946975339
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SNP_P4_143165_324503	NW_004516125.1	Scaffold731	324503	AA	GG	1946975392
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SNP_P4_143167_324506	NW_004516125.1	Scaffold731	324506	GG	CC	1946975396
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_143176_339389	NW_004516125.1	Scaffold731	339389	AA	GG	1946975408
SNP_P4_143177_339423	NW_004516125.1	Scaffold731	339423	GG	AA	1946975410
SNP_P4_143179_340734	NW_004516125.1	Scaffold731	340734	CC	TT	1946975412
SNP_P4_143180_340744	NW_004516125.1	Scaffold731	340744	TT	CC	1946975414
SNP_P4_143181_340893	NW_004516125.1	Scaffold731	340893	TT	GG	1946975416
SNP_P4_143182_340986	NW_004516125.1	Scaffold731	340986	TT	AA	1946975418
SNP_P4_143183_341012	NW_004516125.1	Scaffold731	341012	AA	GG	1946975420
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SNP_P4_143216_361202	NW_004516125.1	Scaffold731	361202	TT	CC	1946975477
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SNP_P4_143218_361553	NW_004516125.1	Scaffold731	361553	CC	AA	1946975481

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_143223_361818	NW_004516125.1	Scaffold731	361818	TT	CC	1946975489
SNP_P4_143224_361834	NW_004516125.1	Scaffold731	361834	AA	GG	1946975491
SNP_P4_143226_365644	NW_004516125.1	Scaffold731	365644	CC	TT	1946975493
SNP_P4_143227_365654	NW_004516125.1	Scaffold731	365654	CC	TT	1946975495
SNP_P4_143228_365663	NW_004516125.1	Scaffold731	365663	CC	AA	1946975497
SNP_P4_143229_366011	NW_004516125.1	Scaffold731	366011	TT	CC	1946975499
SNP_P4_143230_366051	NW_004516125.1	Scaffold731	366051	TT	CC	1946975501
SNP_P4_143232_366126	NW_004516125.1	Scaffold731	366126	GG	CC	1946975503
SNP_P4_143233_366156	NW_004516125.1	Scaffold731	366156	AA	GG	1946975505
SNP_P4_143234_367380	NW_004516125.1	Scaffold731	367380	AA	TT	1946975507
SNP_P4_143236_369529	NW_004516125.1	Scaffold731	369529	GG	AA	1946975509
SNP_P4_143237_369646	NW_004516125.1	Scaffold731	369646	TT	CC	1946975511
SNP_P4_143238_369674	NW_004516125.1	Scaffold731	369674	AA	GG	1946975513
SNP_P4_143239_369686	NW_004516125.1	Scaffold731	369686	CC	TT	1946975515
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SNP_P4_143245_390566	NW_004516125.1	Scaffold731	390566	CC	AA	1946975520
SNP_P4_143246_391657	NW_004516125.1	Scaffold731	391657	AA	GG	1946975522
SNP_P4_143247_391708	NW_004516125.1	Scaffold731	391708	CC	TT	1946975524
SNP_P4_143249_427673	NW_004516125.1	Scaffold731	427673	AA	TT	1946975526
SNP_P4_143250_9640	NW_004516127.1	Scaffold735	9640	GG	AA	1946975528
SNP_P4_143252_15560	NW_004516127.1	Scaffold735	15560	TT	CC	1946975530
SNP_P4_143253_54213	NW_004516127.1	Scaffold735	54213	CC	TT	1946975532
SNP_P4_143254_54469	NW_004516127.1	Scaffold735	54469	GG	AA	1946975534
SNP_P4_143255_55473	NW_004516127.1	Scaffold735	55473	AA	TT	1946975536
SNP_P4_143256_57041	NW_004516127.1	Scaffold735	57041	GG	AA	1946975538
SNP_P4_143257_69995	NW_004516127.1	Scaffold735	69995	GG	AA	1946975540
SNP_P4_143258_70035	NW_004516127.1	Scaffold735	70035	GG	AA	1946975542
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SNP_P4_143261_79202	NW_004516127.1	Scaffold735	79202	GG	AA	1946975547
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SNP_P4_143263_130734	NW_004516127.1	Scaffold735	130734	GG	CC	1946975551
SNP_P4_143264_134846	NW_004516127.1	Scaffold735	134846	AA	TT	1946975553
SNP_P4_143265_138124	NW_004516127.1	Scaffold735	138124	AA	TT	1946975555
SNP_P4_143266_149714	NW_004516127.1	Scaffold735	149714	CC	TT	1946975557
SNP_P4_143267_150034	NW_004516127.1	Scaffold735	150034	TT	CC	1946975559
SNP_P4_143268_150097	NW_004516127.1	Scaffold735	150097	AA	CC	1946975561
SNP_P4_143269_173160	NW_004516127.1	Scaffold735	173160	GG	AA	1946975563

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_143272_180290	NW_004516127.1	Scaffold735	180290	GG	AA	1946975567
SNP_P4_143273_186893	NW_004516127.1	Scaffold735	186893	TT	CC	1946975569
SNP_P4_143274_187103	NW_004516127.1	Scaffold735	187103	AA	GG	1946975571
SNP_P4_143275_187182	NW_004516127.1	Scaffold735	187182	CC	TT	1946975573
SNP_P4_143276_187196	NW_004516127.1	Scaffold735	187196	CC	TT	1946975575
SNP_P4_143277_187213	NW_004516127.1	Scaffold735	187213	GG	AA	1946975577
SNP_P4_143278_187247	NW_004516127.1	Scaffold735	187247	GG	AA	1946975579
SNP_P4_143280_193843	NW_004516127.1	Scaffold735	193843	CC	TT	1946975581
SNP_P4_143281_221986	NW_004516127.1	Scaffold735	221986	CC	GG	1946975583
SNP_P4_143282_292	NW_004516128.1	Scaffold736	292	TT	AA	1946975585
SNP_P4_143283_296	NW_004516128.1	Scaffold736	296	AA	TT	1946975587
SNP_P4_143284_1166	NW_004516128.1	Scaffold736	1166	CC	TT	1946975589
SNP_P4_143285_1813	NW_004516128.1	Scaffold736	1813	TT	GG	1946975591
SNP_P4_143286_1879	NW_004516128.1	Scaffold736	1879	GG	AA	1946975594
SNP_P4_143287_1894	NW_004516128.1	Scaffold736	1894	CC	TT	1946975596
SNP_P4_143288_2093	NW_004516129.1	Scaffold737	2093	AA	TT	1946975598
SNP_P4_143289_64	NW_004516130.1	Scaffold738	64	AA	CC	1946975600
SNP_P4_143290_127	NW_004516130.1	Scaffold738	127	TT	CC	1946975602
SNP_P4_143291_282	NW_004516130.1	Scaffold738	282	TT	AA	1946975604
SNP_P4_143292_331	NW_004516130.1	Scaffold738	331	AA	TT	1946975606
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SNP_P4_143297_639	NW_004516130.1	Scaffold738	639	CC	GG	1946975616
SNP_P4_143298_881	NW_004516130.1	Scaffold738	881	AA	TT	1946975618
SNP_P4_143299_895	NW_004516130.1	Scaffold738	895	GG	TT	1946975621
SNP_P4_143300_899	NW_004516130.1	Scaffold738	899	AA	CC	1946975622
SNP_P4_143301_974	NW_004516130.1	Scaffold738	974	AA	TT	1946975624
SNP_P4_143302_980	NW_004516130.1	Scaffold738	980	TT	CC	1946975626
SNP_P4_143303_1010	NW_004516130.1	Scaffold738	1010	CC	AA	1946975629
SNP_P4_143304_1078	NW_004516130.1	Scaffold738	1078	GG	CC	1946975631
SNP_P4_143305_1586	NW_004516130.1	Scaffold738	1586	GG	AA	1946975633
SNP_P4_143306_1681	NW_004516130.1	Scaffold738	1681	AA	TT	1946975635
SNP_P4_143307_2043	NW_004516130.1	Scaffold738	2043	TT	CC	1946975637
SNP_P4_143308_2062	NW_004516130.1	Scaffold738	2062	CC	TT	1946975639
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SNP_P4_143311_2188	NW_004516130.1	Scaffold738	2188	GG	AA	1946975643
SNP_P4_143312_2400	NW_004516130.1	Scaffold738	2400	TT	CC	1946975645
SNP_P4_143313_2470	NW_004516130.1	Scaffold738	2470	GG	AA	1946975647
SNP_P4_143314_2498	NW_004516130.1	Scaffold738	2498	TT	CC	1946975649

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_143316_4358	NW_004516130.1	Scaffold738	4358	AA	CC	1946975653
SNP_P4_143317_4407	NW_004516130.1	Scaffold738	4407	AA	GG	1946975655
SNP_P4_143318_4469	NW_004516130.1	Scaffold738	4469	GG	AA	1946975657
SNP_P4_143319_4569	NW_004516130.1	Scaffold738	4569	TT	CC	1946975659
SNP_P4_143320_4601	NW_004516130.1	Scaffold738	4601	CC	TT	1946975661
SNP_P4_143321_4846	NW_004516130.1	Scaffold738	4846	AA	GG	1946975663
SNP_P4_143322_4901	NW_004516130.1	Scaffold738	4901	CC	TT	1946975665
SNP_P4_143323_4924	NW_004516130.1	Scaffold738	4924	AA	GG	1946975667
SNP_P4_143324_4928	NW_004516130.1	Scaffold738	4928	CC	AA	1946975669
SNP_P4_143325_5045	NW_004516130.1	Scaffold738	5045	TT	GG	1946975672
SNP_P4_143326_5071	NW_004516130.1	Scaffold738	5071	AA	CC	1946975674
SNP_P4_143328_5355	NW_004516130.1	Scaffold738	5355	CC	TT	1946975676
SNP_P4_143329_5526	NW_004516130.1	Scaffold738	5526	CC	TT	1946975677
SNP_P4_143330_5803	NW_004516130.1	Scaffold738	5803	GG	AA	1946975679
SNP_P4_143331_6266	NW_004516130.1	Scaffold738	6266	TT	GG	1946975681
SNP_P4_143332_6312	NW_004516130.1	Scaffold738	6312	CC	TT	1946975684
SNP_P4_143333_6576	NW_004516130.1	Scaffold738	6576	CC	GG	1946975686
SNP_P4_143334_6834	NW_004516130.1	Scaffold738	6834	GG	AA	1946975688
SNP_P4_143335_7019	NW_004516130.1	Scaffold738	7019	CC	AA	1946975689
SNP_P4_143336_7023	NW_004516130.1	Scaffold738	7023	GG	TT	1946975691
SNP_P4_143337_7060	NW_004516130.1	Scaffold738	7060	CC	GG	1946975693
SNP_P4_143338_7093	NW_004516130.1	Scaffold738	7093	TT	GG	1946975695
SNP_P4_143339_7106	NW_004516130.1	Scaffold738	7106	CC	GG	1946975697
SNP_P4_143340_7621	NW_004516130.1	Scaffold738	7621	AA	GG	1946975699
SNP_P4_143341_7654	NW_004516130.1	Scaffold738	7654	TT	AA	1946975701
SNP_P4_143342_8708	NW_004516130.1	Scaffold738	8708	CC	TT	1946975703
SNP_P4_143343_8760	NW_004516130.1	Scaffold738	8760	CC	GG	1946975706
SNP_P4_143344_8877	NW_004516130.1	Scaffold738	8877	TT	CC	1946975708
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SNP_P4_143346_8970	NW_004516130.1	Scaffold738	8970	GG	AA	1946975712
SNP_P4_143347_9038	NW_004516130.1	Scaffold738	9038	CC	TT	1946975714
SNP_P4_143348_9158	NW_004516130.1	Scaffold738	9158	TT	AA	1946975716
SNP_P4_143349_9247	NW_004516130.1	Scaffold738	9247	TT	CC	1946975718
SNP_P4_143350_9265	NW_004516130.1	Scaffold738	9265	AA	CC	1946975720
SNP_P4_143351_9296	NW_004516130.1	Scaffold738	9296	CC	TT	1946975722
SNP_P4_143352_9299	NW_004516130.1	Scaffold738	9299	AA	GG	1946975724
SNP_P4_143353_9404	NW_004516130.1	Scaffold738	9404	CC	TT	1946975726
SNP_P4_143354_9423	NW_004516130.1	Scaffold738	9423	GG	CC	1946975728
SNP_P4_143355_10422	NW_004516130.1	Scaffold738	10422	CC	TT	1946975730
SNP_P4_143357_10786	NW_004516130.1	Scaffold738	10786	AA	GG	1946975732
SNP_P4_143358_10825	NW_004516130.1	Scaffold738	10825	AA	GG	1946975734

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_143360_10840	NW_004516130.1	Scaffold738	10840	AA	GG	1946975738
SNP_P4_143361_10846	NW_004516130.1	Scaffold738	10846	TT	AA	1946975740
SNP_P4_143362_10851	NW_004516130.1	Scaffold738	10851	CC	TT	1946975742
SNP_P4_143363_10988	NW_004516130.1	Scaffold738	10988	TT	GG	1946975744
SNP_P4_143364_11008	NW_004516130.1	Scaffold738	11008	CC	GG	1946975746
SNP_P4_143365_11373	NW_004516130.1	Scaffold738	11373	TT	GG	1946975748
SNP_P4_143366_5162	NW_004516131.1	Scaffold739	5162	TT	AA	1946975750
SNP_P4_143367_12235	NW_004516131.1	Scaffold739	12235	AA	GG	1946975752
SNP_P4_143368_12291	NW_004516131.1	Scaffold739	12291	CC	AA	1946975754
SNP_P4_143369_12293	NW_004516131.1	Scaffold739	12293	GG	TT	1946975756
SNP_P4_143370_12613	NW_004516131.1	Scaffold739	12613	AA	GG	1946975758
SNP_P4_143371_466	NW_004516133.1	Scaffold741	466	GG	AA	1946975760
SNP_P4_143372_851	NW_004516133.1	Scaffold741	851	CC	GG	1946975762
SNP_P4_143373_6307	NW_004516133.1	Scaffold741	6307	CC	TT	1946975764
SNP_P4_143375_9816	NW_004516133.1	Scaffold741	9816	AA	GG	1946975766
SNP_P4_143376_9837	NW_004516133.1	Scaffold741	9837	CC	TT	1946975768
SNP_P4_143377_10016	NW_004516133.1	Scaffold741	10016	TT	CC	1946975770
SNP_P4_143378_11242	NW_004516133.1	Scaffold741	11242	CC	TT	1946975772
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SNP_P4_143381_3405	NW_004516135.1	Scaffold743	3405	CC	TT	1946975779
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SNP_P4_143383_9051	NW_004516135.1	Scaffold743	9051	AA	TT	1946975783
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SNP_P4_143387_10474	NW_004516135.1	Scaffold743	10474	GG	CC	1946975791
SNP_P4_143388_10498	NW_004516135.1	Scaffold743	10498	GG	AA	1946975793
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SNP_P4_143393_102	NW_004516136.1	Scaffold745	102	GG	TT	1946975800
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SNP_P4_143395_1644	NW_004516136.1	Scaffold745	1644	TT	CC	1946975804
SNP_P4_143396_1655	NW_004516136.1	Scaffold745	1655	CC	GG	1946975806
SNP_P4_143397_5167	NW_004516137.1	Scaffold746	5167	TT	GG	1946975808
SNP_P4_143398_5501	NW_004516137.1	Scaffold746	5501	GG	AA	1946975810
SNP_P4_143400_2066	NW_004516138.1	Scaffold749	2066	AA	GG	1946975813
SNP_P4_143401_2120	NW_004516138.1	Scaffold749	2120	AA	TT	1946975815
SNP_P4_143402_2169	NW_004516138.1	Scaffold749	2169	CC	TT	1946975817
SNP_P4_143403_2449	NW_004516138.1	Scaffold749	2449	GG	AA	1946975818

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_143407_4746	NW_004516138.1	Scaffold749	4746	TT	CC	1946975824
SNP_P4_143408_4842	NW_004516138.1	Scaffold749	4842	AA	TT	1946975826
SNP_P4_143409_4873	NW_004516138.1	Scaffold749	4873	TT	CC	1946975828
SNP_P4_143410_4932	NW_004516138.1	Scaffold749	4932	CC	TT	1946975830
SNP_P4_143411_5011	NW_004516138.1	Scaffold749	5011	AA	CC	1946975832
SNP_P4_143412_5012	NW_004516138.1	Scaffold749	5012	CC	AA	1946975834
SNP_P4_143413_7975	NW_004516138.1	Scaffold749	7975	AA	CC	1946975836
SNP_P4_143414_8836	NW_004516138.1	Scaffold749	8836	TT	CC	1946975838
SNP_P4_143415_8837	NW_004516138.1	Scaffold749	8837	TT	GG	1946975840
SNP_P4_143416_8950	NW_004516138.1	Scaffold749	8950	AA	CC	1946975843
SNP_P4_143417_9167	NW_004516138.1	Scaffold749	9167	TT	GG	1946975844
SNP_P4_143418_10558	NW_004516138.1	Scaffold749	10558	TT	CC	1946975846
SNP_P4_143419_10777	NW_004516138.1	Scaffold749	10777	CC	GG	1946975848
SNP_P4_143420_12457	NW_004516138.1	Scaffold749	12457	CC	GG	1946975850
SNP_P4_143421_13772	NW_004516138.1	Scaffold749	13772	TT	AA	1946975852
SNP_P4_143422_13821	NW_004516138.1	Scaffold749	13821	AA	GG	1946975854
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SNP_P4_143436_14324	NW_004516138.1	Scaffold749	14324	CC	TT	1946975882
SNP_P4_143437_15150	NW_004516138.1	Scaffold749	15150	CC	GG	1946975884
SNP_P4_143438_16414	NW_004516138.1	Scaffold749	16414	TT	GG	1946975886
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SNP_P4_143440_21145	NW_004516138.1	Scaffold749	21145	AA	CC	1946975890
SNP_P4_143441_27449	NW_004516138.1	Scaffold749	27449	GG	TT	1946975892
SNP_P4_143442_29355	NW_004516138.1	Scaffold749	29355	GG	AA	1946975894
SNP_P4_143443_29727	NW_004516138.1	Scaffold749	29727	TT	GG	1946975896
SNP_P4_143444_29741	NW_004516138.1	Scaffold749	29741	AA	TT	1946975898
SNP_P4_143445_29752	NW_004516138.1	Scaffold749	29752	TT	AA	1946975900
SNP_P4_143446_29794	NW_004516138.1	Scaffold749	29794	AA	GG	1946975902

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_143449_30259	NW_004516138.1	Scaffold749	30259	TT	GG	1946975908
SNP_P4_143450_30266	NW_004516138.1	Scaffold749	30266	TT	GG	1946975910
SNP_P4_143451_30273	NW_004516138.1	Scaffold749	30273	TT	GG	1946975912
SNP_P4_143452_30278	NW_004516138.1	Scaffold749	30278	GG	CC	1946975914
SNP_P4_143453_30280	NW_004516138.1	Scaffold749	30280	TT	GG	1946975916
SNP_P4_143454_30287	NW_004516138.1	Scaffold749	30287	TT	GG	1946975918
SNP_P4_143455_30294	NW_004516138.1	Scaffold749	30294	TT	GG	1946975921
SNP_P4_143456_30339	NW_004516138.1	Scaffold749	30339	CC	TT	1946975923
SNP_P4_143457_30665	NW_004516138.1	Scaffold749	30665	TT	GG	1946975924
SNP_P4_143458_30696	NW_004516138.1	Scaffold749	30696	AA	GG	1946975926
SNP_P4_143459_35254	NW_004516138.1	Scaffold749	35254	CC	AA	1946975928
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SNP_P4_143461_36662	NW_004516138.1	Scaffold749	36662	GG	AA	1946975932
SNP_P4_143462_38313	NW_004516138.1	Scaffold749	38313	TT	AA	1946975934
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SNP_P4_143464_52355	NW_004516138.1	Scaffold749	52355	GG	AA	1946975936
SNP_P4_143465_52808	NW_004516138.1	Scaffold749	52808	GG	TT	1946975937
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SNP_P4_143467_55077	NW_004516138.1	Scaffold749	55077	GG	TT	1946975939
SNP_P4_143468_59436	NW_004516138.1	Scaffold749	59436	CC	GG	1946975940
SNP_P4_143469_59442	NW_004516138.1	Scaffold749	59442	TT	CC	1946975941
SNP_P4_143470_59475	NW_004516138.1	Scaffold749	59475	AA	TT	1946975943
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SNP_P4_143482_1564	NW_004516139.1	Scaffold750	1564	TT	CC	1946975965
SNP_P4_143483_5474	NW_004516139.1	Scaffold750	5474	AA	GG	1946975967
SNP_P4_143485_7133	NW_004516139.1	Scaffold750	7133	AA	GG	1946975969
SNP_P4_143486_10061	NW_004516139.1	Scaffold750	10061	GG	TT	1946975971
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SNP_P4_143488_13848	NW_004516139.1	Scaffold750	13848	CC	TT	1946975974
SNP_P4_143489_19557	NW_004516139.1	Scaffold750	19557	TT	GG	1946975976
SNP_P4_143490_20154	NW_004516139.1	Scaffold750	20154	TT	CC	1946975978

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_143493_20228	NW_004516139.1	Scaffold750	20228	GG	TT	1946975984
SNP_P4_143494_30574	NW_004516139.1	Scaffold750	30574	TT	CC	1946975985
SNP_P4_143495_30677	NW_004516139.1	Scaffold750	30677	TT	CC	1946975986
SNP_P4_143496_30750	NW_004516139.1	Scaffold750	30750	CC	AA	1946975987
SNP_P4_143497_30811	NW_004516139.1	Scaffold750	30811	CC	AA	1946975989
SNP_P4_143498_30817	NW_004516139.1	Scaffold750	30817	CC	TT	1946975991
SNP_P4_143499_30819	NW_004516139.1	Scaffold750	30819	AA	GG	1946975993
SNP_P4_143500_30844	NW_004516139.1	Scaffold750	30844	AA	TT	1946975995
SNP_P4_143501_30886	NW_004516139.1	Scaffold750	30886	AA	GG	1946975997
SNP_P4_143502_31069	NW_004516139.1	Scaffold750	31069	CC	TT	1946975999
SNP_P4_143503_31086	NW_004516139.1	Scaffold750	31086	TT	CC	1946976001
SNP_P4_143504_31126	NW_004516139.1	Scaffold750	31126	AA	GG	1946976002
SNP_P4_143505_31525	NW_004516139.1	Scaffold750	31525	AA	GG	1946976004
SNP_P4_143506_31731	NW_004516139.1	Scaffold750	31731	TT	GG	1946976006
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SNP_P4_143513_31881	NW_004516139.1	Scaffold750	31881	GG	CC	1946976019
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SNP_P4_143517_31946	NW_004516139.1	Scaffold750	31946	GG	CC	1946976026
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SNP_P4_143525_32369	NW_004516139.1	Scaffold750	32369	AA	CC	1946976041
SNP_P4_143526_32425	NW_004516139.1	Scaffold750	32425	TT	CC	1946976043
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SNP_P4_143528_32583	NW_004516139.1	Scaffold750	32583	TT	AA	1946976047
SNP_P4_143529_32607	NW_004516139.1	Scaffold750	32607	AA	GG	1946976049
SNP_P4_143531_33068	NW_004516139.1	Scaffold750	33068	GG	TT	1946976051
SNP_P4_143532_33082	NW_004516139.1	Scaffold750	33082	AA	GG	1946976053
SNP_P4_143533_33106	NW_004516139.1	Scaffold750	33106	AA	CC	1946976055
SNP_P4_143534_33205	NW_004516139.1	Scaffold750	33205	GG	AA	1946976057

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_143537_33333	NW_004516139.1	Scaffold750	33333	TT	CC	1946976063
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SNP_P4_143539_33336	NW_004516139.1	Scaffold750	33336	TT	AA	1946976067
SNP_P4_143540_33337	NW_004516139.1	Scaffold750	33337	TT	AA	1946976069
SNP_P4_143541_33352	NW_004516139.1	Scaffold750	33352	AA	GG	1946976071
SNP_P4_143542_33356	NW_004516139.1	Scaffold750	33356	AA	TT	1946976073
SNP_P4_143543_33393	NW_004516139.1	Scaffold750	33393	AA	GG	1946976075
SNP_P4_143544_33562	NW_004516139.1	Scaffold750	33562	AA	GG	1946976077
SNP_P4_143545_33563	NW_004516139.1	Scaffold750	33563	CC	TT	1946976079
SNP_P4_143546_33602	NW_004516139.1	Scaffold750	33602	CC	TT	1946976081
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SNP_P4_143548_33667	NW_004516139.1	Scaffold750	33667	GG	AA	1946976085
SNP_P4_143549_33760	NW_004516139.1	Scaffold750	33760	GG	CC	1946976087
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SNP_P4_143564_34754	NW_004516139.1	Scaffold750	34754	TT	AA	1946976118
SNP_P4_143565_34787	NW_004516139.1	Scaffold750	34787	TT	CC	1946976120
SNP_P4_143566_34792	NW_004516139.1	Scaffold750	34792	CC	TT	1946976122
SNP_P4_143567_34939	NW_004516139.1	Scaffold750	34939	TT	CC	1946976124
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SNP_P4_143572_34998	NW_004516139.1	Scaffold750	34998	AA	GG	1946976134
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_143580_35173	NW_004516139.1	Scaffold750	35173	AA	GG	1946976151
SNP_P4_143581_36796	NW_004516139.1	Scaffold750	36796	TT	CC	1946976153
SNP_P4_143582_36845	NW_004516139.1	Scaffold750	36845	AA	GG	1946976155
SNP_P4_143583_36877	NW_004516139.1	Scaffold750	36877	AA	CC	1946976157
SNP_P4_143584_36880	NW_004516139.1	Scaffold750	36880	AA	GG	1946976159
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SNP_P4_143586_36925	NW_004516139.1	Scaffold750	36925	GG	AA	1946976163
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SNP_P4_143616_38573	NW_004516139.1	Scaffold750	38573	GG	TT	1946976226
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_143622_38932	NW_004516139.1	Scaffold750	38932	AA	CC	1946976238
SNP_P4_143623_38934	NW_004516139.1	Scaffold750	38934	GG	TT	1946976240
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SNP_P4_143662_59877	NW_004516139.1	Scaffold750	59877	GG	TT	1946976308
SNP_P4_143663_59917	NW_004516139.1	Scaffold750	59917	TT	AA	1946976310
SNP_P4_143664_60010	NW_004516139.1	Scaffold750	60010	GG	TT	1946976312

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_143665_60066	NW_004516139.1	Scaffold750	60066	CC	TT	1946976314
SNP_P4_143666_60075	NW_004516139.1	Scaffold750	60075	CC	TT	1946976316
SNP_P4_143667_60092	NW_004516139.1	Scaffold750	60092	CC	AA	1946976318
SNP_P4_143668_60131	NW_004516139.1	Scaffold750	60131	GG	TT	1946976320
SNP_P4_143669_60161	NW_004516139.1	Scaffold750	60161	CC	TT	1946976322
SNP_P4_143670_69057	NW_004516139.1	Scaffold750	69057	AA	GG	1946976324
SNP_P4_143671_69063	NW_004516139.1	Scaffold750	69063	AA	CC	1946976326
SNP_P4_143672_80620	NW_004516139.1	Scaffold750	80620	TT	CC	1946976328
SNP_P4_143673_80626	NW_004516139.1	Scaffold750	80626	TT	CC	1946976330
SNP_P4_143674_81662	NW_004516139.1	Scaffold750	81662	GG	AA	1946976332
SNP_P4_143675_84816	NW_004516139.1	Scaffold750	84816	AA	GG	1946976334
SNP_P4_143676_92899	NW_004516139.1	Scaffold750	92899	GG	TT	1946976336
SNP_P4_143677_95184	NW_004516139.1	Scaffold750	95184	CC	TT	1946976338
SNP_P4_143678_106491	NW_004516139.1	Scaffold750	106491	AA	CC	1946976340
SNP_P4_143679_106498	NW_004516139.1	Scaffold750	106498	GG	CC	1946976343
SNP_P4_143680_106550	NW_004516139.1	Scaffold750	106550	AA	CC	1946976345
SNP_P4_143682_106922	NW_004516139.1	Scaffold750	106922	TT	CC	1946976347
SNP_P4_143683_127426	NW_004516139.1	Scaffold750	127426	TT	CC	1946976349
SNP_P4_143684_139771	NW_004516139.1	Scaffold750	139771	CC	AA	1946976351
SNP_P4_143685_141287	NW_004516139.1	Scaffold750	141287	TT	AA	1946976353
SNP_P4_143686_141288	NW_004516139.1	Scaffold750	141288	AA	TT	1946976355
SNP_P4_143687_141306	NW_004516139.1	Scaffold750	141306	TT	CC	1946976357
SNP_P4_143688_158900	NW_004516139.1	Scaffold750	158900	CC	TT	1946976359
SNP_P4_143689_158903	NW_004516139.1	Scaffold750	158903	GG	AA	1946976361
SNP_P4_143690_158932	NW_004516139.1	Scaffold750	158932	TT	GG	1946976364
SNP_P4_143692_185265	NW_004516139.1	Scaffold750	185265	AA	TT	1946976366
SNP_P4_143693_185298	NW_004516139.1	Scaffold750	185298	TT	CC	1946976368
SNP_P4_143694_185311	NW_004516139.1	Scaffold750	185311	TT	CC	1946976370
SNP_P4_143695_190485	NW_004516139.1	Scaffold750	190485	AA	GG	1946976372
SNP_P4_143696_190499	NW_004516139.1	Scaffold750	190499	TT	CC	1946976374
SNP_P4_143697_190518	NW_004516139.1	Scaffold750	190518	AA	TT	1946976376
SNP_P4_143698_190521	NW_004516139.1	Scaffold750	190521	AA	GG	1946976378
SNP_P4_143699_190522	NW_004516139.1	Scaffold750	190522	TT	GG	1946976380
SNP_P4_143700_190862	NW_004516139.1	Scaffold750	190862	AA	GG	1946976381
SNP_P4_143702_241030	NW_004516139.1	Scaffold750	241030	CC	GG	1946976383
SNP_P4_143703_243018	NW_004516139.1	Scaffold750	243018	AA	CC	1946976386
SNP_P4_143704_243198	NW_004516139.1	Scaffold750	243198	TT	CC	1946976388
SNP_P4_143705_243212	NW_004516139.1	Scaffold750	243212	AA	TT	1946976389
SNP_P4_143706_243249	NW_004516139.1	Scaffold750	243249	TT	CC	1946976391
SNP_P4_143707_244876	NW_004516139.1	Scaffold750	244876	TT	AA	1946976393
SNP_P4_143708_245636	NW_004516139.1	Scaffold750	245636	GG	AA	1946976395
SNP_P4_143709_256829	NW_004516139.1	Scaffold750	256829	AA	CC	1946976397

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_143711_257216	NW_004516139.1	Scaffold750	257216	AA	TT	1946976401
SNP_P4_143712_257242	NW_004516139.1	Scaffold750	257242	AA	TT	1946976403
SNP_P4_143713_257249	NW_004516139.1	Scaffold750	257249	TT	CC	1946976405
SNP_P4_143714_257271	NW_004516139.1	Scaffold750	257271	TT	CC	1946976407
SNP_P4_143715_258258	NW_004516139.1	Scaffold750	258258	TT	AA	1946976410
SNP_P4_143716_264215	NW_004516139.1	Scaffold750	264215	CC	TT	1946976411
SNP_P4_143718_267846	NW_004516139.1	Scaffold750	267846	TT	GG	1946976413
SNP_P4_143719_267853	NW_004516139.1	Scaffold750	267853	GG	TT	1946976416
SNP_P4_143720_267886	NW_004516139.1	Scaffold750	267886	AA	CC	1946976418
SNP_P4_143721_268771	NW_004516139.1	Scaffold750	268771	CC	TT	1946976419
SNP_P4_143722_268839	NW_004516139.1	Scaffold750	268839	GG	AA	1946976421
SNP_P4_143723_268861	NW_004516139.1	Scaffold750	268861	TT	CC	1946976423
SNP_P4_143724_268882	NW_004516139.1	Scaffold750	268882	TT	CC	1946976425
SNP_P4_143725_268932	NW_004516139.1	Scaffold750	268932	AA	GG	1946976428
SNP_P4_143726_269082	NW_004516139.1	Scaffold750	269082	CC	TT	1946976429
SNP_P4_143727_269222	NW_004516139.1	Scaffold750	269222	CC	TT	1946976431
SNP_P4_143728_269263	NW_004516139.1	Scaffold750	269263	GG	AA	1946976433
SNP_P4_143729_271938	NW_004516139.1	Scaffold750	271938	CC	TT	1946976435
SNP_P4_143730_272048	NW_004516139.1	Scaffold750	272048	TT	AA	1946976437
SNP_P4_143731_273207	NW_004516139.1	Scaffold750	273207	TT	AA	1946976439
SNP_P4_143732_273574	NW_004516139.1	Scaffold750	273574	TT	GG	1946976441
SNP_P4_143734_273613	NW_004516139.1	Scaffold750	273613	AA	TT	1946976443
SNP_P4_143735_273674	NW_004516139.1	Scaffold750	273674	TT	CC	1946976445
SNP_P4_143736_273677	NW_004516139.1	Scaffold750	273677	AA	TT	1946976447
SNP_P4_143737_273685	NW_004516139.1	Scaffold750	273685	TT	CC	1946976449
SNP_P4_143738_273759	NW_004516139.1	Scaffold750	273759	CC	TT	1946976451
SNP_P4_143739_278545	NW_004516139.1	Scaffold750	278545	AA	CC	1946976453
SNP_P4_143740_278566	NW_004516139.1	Scaffold750	278566	TT	GG	1946976455
SNP_P4_143741_279670	NW_004516139.1	Scaffold750	279670	AA	GG	1946976457
SNP_P4_143742_337716	NW_004516139.1	Scaffold750	337716	GG	CC	1946976458
SNP_P4_143743_347769	NW_004516139.1	Scaffold750	347769	CC	TT	1946976460
SNP_P4_143744_347970	NW_004516139.1	Scaffold750	347970	CC	TT	1946976462
SNP_P4_143745_348026	NW_004516139.1	Scaffold750	348026	AA	GG	1946976464
SNP_P4_143746_348237	NW_004516139.1	Scaffold750	348237	TT	AA	1946976466
SNP_P4_143747_360252	NW_004516139.1	Scaffold750	360252	CC	TT	1946976468
SNP_P4_143749_360503	NW_004516139.1	Scaffold750	360503	TT	CC	1946976470
SNP_P4_143750_360521	NW_004516139.1	Scaffold750	360521	AA	TT	1946976472
SNP_P4_143751_360544	NW_004516139.1	Scaffold750	360544	AA	TT	1946976474
SNP_P4_143752_360560	NW_004516139.1	Scaffold750	360560	AA	CC	1946976476
SNP_P4_143753_360623	NW_004516139.1	Scaffold750	360623	GG	AA	1946976478
SNP_P4_143754_360629	NW_004516139.1	Scaffold750	360629	GG	TT	1946976480

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_143756_362244	NW_004516139.1	Scaffold750	362244	AA	GG	1946976484
SNP_P4_143757_362273	NW_004516139.1	Scaffold750	362273	CC	GG	1946976486
SNP_P4_143758_362276	NW_004516139.1	Scaffold750	362276	TT	CC	1946976488
SNP_P4_143759_362293	NW_004516139.1	Scaffold750	362293	TT	GG	1946976490
SNP_P4_143760_362295	NW_004516139.1	Scaffold750	362295	TT	AA	1946976492
SNP_P4_143761_362321	NW_004516139.1	Scaffold750	362321	TT	AA	1946976494
SNP_P4_143762_362349	NW_004516139.1	Scaffold750	362349	CC	TT	1946976496
SNP_P4_143763_15539	NW_004516140.1	Scaffold752	15539	TT	CC	1946976498
SNP_P4_143764_44183	NW_004516140.1	Scaffold752	44183	GG	AA	1946976500
SNP_P4_143765_50188	NW_004516140.1	Scaffold752	50188	GG	AA	1946976502
SNP_P4_143766_50482	NW_004516140.1	Scaffold752	50482	AA	GG	1946976504
SNP_P4_143767_50536	NW_004516140.1	Scaffold752	50536	AA	GG	1946976506
SNP_P4_143768_50554	NW_004516140.1	Scaffold752	50554	AA	GG	1946976508
SNP_P4_143769_50581	NW_004516140.1	Scaffold752	50581	GG	AA	1946976510
SNP_P4_143770_50611	NW_004516140.1	Scaffold752	50611	AA	CC	1946976512
SNP_P4_143771_50640	NW_004516140.1	Scaffold752	50640	AA	TT	1946976514
SNP_P4_143772_55946	NW_004516140.1	Scaffold752	55946	TT	CC	1946976516
SNP_P4_143773_98840	NW_004516140.1	Scaffold752	98840	CC	TT	1946976518
SNP_P4_143774_98844	NW_004516140.1	Scaffold752	98844	GG	AA	1946976520
SNP_P4_143775_98959	NW_004516140.1	Scaffold752	98959	GG	TT	1946976522
SNP_P4_143776_99166	NW_004516140.1	Scaffold752	99166	GG	AA	1946976523
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SNP_P4_143778_99231	NW_004516140.1	Scaffold752	99231	AA	GG	1946976527
SNP_P4_143779_99263	NW_004516140.1	Scaffold752	99263	GG	CC	1946976530
SNP_P4_143780_99289	NW_004516140.1	Scaffold752	99289	GG	AA	1946976532
SNP_P4_143781_99293	NW_004516140.1	Scaffold752	99293	AA	GG	1946976534
SNP_P4_143783_99378	NW_004516140.1	Scaffold752	99378	AA	GG	1946976536
SNP_P4_143784_99388	NW_004516140.1	Scaffold752	99388	CC	TT	1946976538
SNP_P4_143785_109943	NW_004516140.1	Scaffold752	109943	TT	CC	1946976540
SNP_P4_143786_112851	NW_004516140.1	Scaffold752	112851	AA	TT	1946976542
SNP_P4_143787_112875	NW_004516140.1	Scaffold752	112875	TT	CC	1946976544
SNP_P4_143788_113213	NW_004516140.1	Scaffold752	113213	AA	CC	1946976546
SNP_P4_143789_113259	NW_004516140.1	Scaffold752	113259	TT	CC	1946976547
SNP_P4_143790_119058	NW_004516140.1	Scaffold752	119058	CC	TT	1946976549
SNP_P4_143792_137842	NW_004516140.1	Scaffold752	137842	AA	GG	1946976551
SNP_P4_143793_137895	NW_004516140.1	Scaffold752	137895	TT	AA	1946976553
SNP_P4_143794_137896	NW_004516140.1	Scaffold752	137896	CC	AA	1946976555
SNP_P4_143795_137903	NW_004516140.1	Scaffold752	137903	AA	CC	1946976557
SNP_P4_143796_137905	NW_004516140.1	Scaffold752	137905	AA	CC	1946976559
SNP_P4_143797_137931	NW_004516140.1	Scaffold752	137931	TT	GG	1946976561
SNP_P4_143798_137936	NW_004516140.1	Scaffold752	137936	TT	AA	1946976563

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_143800_137990	NW_004516140.1	Scaffold752	137990	AA	GG	1946976567
SNP_P4_143801_138011	NW_004516140.1	Scaffold752	138011	GG	AA	1946976569
SNP_P4_143802_138064	NW_004516140.1	Scaffold752	138064	AA	TT	1946976571
SNP_P4_143803_138066	NW_004516140.1	Scaffold752	138066	AA	CC	1946976573
SNP_P4_143804_138069	NW_004516140.1	Scaffold752	138069	CC	TT	1946976575
SNP_P4_143805_150442	NW_004516140.1	Scaffold752	150442	AA	GG	1946976576
SNP_P4_143806_150505	NW_004516140.1	Scaffold752	150505	AA	CC	1946976578
SNP_P4_143807_150512	NW_004516140.1	Scaffold752	150512	AA	CC	1946976580
SNP_P4_143808_150591	NW_004516140.1	Scaffold752	150591	TT	CC	1946976582
SNP_P4_143809_150640	NW_004516140.1	Scaffold752	150640	AA	GG	1946976689
SNP_P4_143810_150653	NW_004516140.1	Scaffold752	150653	GG	CC	1946976691
SNP_P4_143811_152248	NW_004516140.1	Scaffold752	152248	CC	AA	1946976693
SNP_P4_143812_152329	NW_004516140.1	Scaffold752	152329	CC	TT	1946976695
SNP_P4_143813_152483	NW_004516140.1	Scaffold752	152483	AA	TT	1946976697
SNP_P4_143814_152518	NW_004516140.1	Scaffold752	152518	AA	CC	1946976699
SNP_P4_143815_152615	NW_004516140.1	Scaffold752	152615	TT	CC	1946976701
SNP_P4_143816_159153	NW_004516140.1	Scaffold752	159153	GG	CC	1946976703
SNP_P4_143818_209668	NW_004516140.1	Scaffold752	209668	AA	TT	1946976705
SNP_P4_143819_210064	NW_004516140.1	Scaffold752	210064	TT	CC	1946976707
SNP_P4_143820_210116	NW_004516140.1	Scaffold752	210116	AA	GG	1946976709
SNP_P4_143821_211706	NW_004516140.1	Scaffold752	211706	TT	CC	1946976711
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SNP_P4_143823_211803	NW_004516140.1	Scaffold752	211803	GG	AA	1946976715
SNP_P4_143824_212023	NW_004516140.1	Scaffold752	212023	AA	CC	1946976717
SNP_P4_143825_212078	NW_004516140.1	Scaffold752	212078	AA	GG	1946976719
SNP_P4_143826_213859	NW_004516140.1	Scaffold752	213859	GG	AA	1946976720
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SNP_P4_143830_222128	NW_004516140.1	Scaffold752	222128	AA	GG	1946976727
SNP_P4_143831_222138	NW_004516140.1	Scaffold752	222138	GG	TT	1946976729
SNP_P4_143832_222155	NW_004516140.1	Scaffold752	222155	CC	TT	1946976731
SNP_P4_143833_222178	NW_004516140.1	Scaffold752	222178	CC	TT	1946976733
SNP_P4_143834_222183	NW_004516140.1	Scaffold752	222183	GG	AA	1946976735
SNP_P4_143836_227807	NW_004516140.1	Scaffold752	227807	AA	CC	1946976737
SNP_P4_143837_228245	NW_004516140.1	Scaffold752	228245	GG	TT	1946976740
SNP_P4_143838_231077	NW_004516140.1	Scaffold752	231077	CC	GG	1946976742
SNP_P4_143839_231080	NW_004516140.1	Scaffold752	231080	GG	AA	1946976744
SNP_P4_143840_231151	NW_004516140.1	Scaffold752	231151	TT	AA	1946976746
SNP_P4_143841_231171	NW_004516140.1	Scaffold752	231171	TT	CC	1946976748
SNP_P4_143842_231220	NW_004516140.1	Scaffold752	231220	AA	GG	1946976750
SNP_P4_143843_231238	NW_004516140.1	Scaffold752	231238	GG	AA	1946976752

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_143845_231264	NW_004516140.1	Scaffold752	231264	AA	GG	1946976757
SNP_P4_143846_231289	NW_004516140.1	Scaffold752	231289	TT	CC	1946976759
SNP_P4_143847_231458	NW_004516140.1	Scaffold752	231458	TT	CC	1946976761
SNP_P4_143848_231477	NW_004516140.1	Scaffold752	231477	CC	TT	1946976763
SNP_P4_143849_231484	NW_004516140.1	Scaffold752	231484	AA	CC	1946976765
SNP_P4_143850_231499	NW_004516140.1	Scaffold752	231499	TT	GG	1946976767
SNP_P4_143851_231500	NW_004516140.1	Scaffold752	231500	AA	GG	1946976769
SNP_P4_143852_231509	NW_004516140.1	Scaffold752	231509	GG	AA	1946976771
SNP_P4_143853_231542	NW_004516140.1	Scaffold752	231542	GG	AA	1946976772
SNP_P4_143854_231554	NW_004516140.1	Scaffold752	231554	AA	GG	1946976774
SNP_P4_143855_231611	NW_004516140.1	Scaffold752	231611	GG	AA	1946976776
SNP_P4_143856_232476	NW_004516140.1	Scaffold752	232476	GG	AA	1946976778
SNP_P4_143857_232532	NW_004516140.1	Scaffold752	232532	TT	GG	1946976780
SNP_P4_143858_249767	NW_004516140.1	Scaffold752	249767	GG	AA	1946976782
SNP_P4_143860_269485	NW_004516140.1	Scaffold752	269485	TT	CC	1946976784
SNP_P4_143862_269644	NW_004516140.1	Scaffold752	269644	AA	CC	1946976786
SNP_P4_143863_269712	NW_004516140.1	Scaffold752	269712	AA	GG	1946976788
SNP_P4_143864_269932	NW_004516140.1	Scaffold752	269932	GG	AA	1946976790
SNP_P4_143865_281702	NW_004516140.1	Scaffold752	281702	GG	AA	1946976792
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SNP_P4_143867_293949	NW_004516140.1	Scaffold752	293949	GG	AA	1946976796
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SNP_P4_143877_456537	NW_004516140.1	Scaffold752	456537	TT	CC	1946976815
SNP_P4_143878_456958	NW_004516140.1	Scaffold752	456958	GG	CC	1946976817
SNP_P4_143879_457410	NW_004516140.1	Scaffold752	457410	AA	CC	1946976819
SNP_P4_143881_504930	NW_004516140.1	Scaffold752	504930	TT	CC	1946976821
SNP_P4_143882_505004	NW_004516140.1	Scaffold752	505004	TT	GG	1946976823
SNP_P4_143883_505027	NW_004516140.1	Scaffold752	505027	CC	TT	1946976825
SNP_P4_143884_505082	NW_004516140.1	Scaffold752	505082	GG	CC	1946976827
SNP_P4_143885_505096	NW_004516140.1	Scaffold752	505096	CC	TT	1946976829
SNP_P4_143887_505290	NW_004516140.1	Scaffold752	505290	AA	GG	1946976830
SNP_P4_143888_505333	NW_004516140.1	Scaffold752	505333	AA	TT	1946976832
SNP_P4_143889_505401	NW_004516140.1	Scaffold752	505401	AA	CC	1946976834

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_143890_33872	NW_004516141.1	Scaffold753	33872	AA	GG	1946976836
SNP_P4_143891_75496	NW_004516141.1	Scaffold753	75496	TT	GG	1946976838
SNP_P4_143892_84324	NW_004516141.1	Scaffold753	84324	TT	CC	1946976840
SNP_P4_143893_84329	NW_004516141.1	Scaffold753	84329	TT	GG	1946976842
SNP_P4_143894_84341	NW_004516141.1	Scaffold753	84341	AA	GG	1946976844
SNP_P4_143895_84356	NW_004516141.1	Scaffold753	84356	AA	CC	1946976846
SNP_P4_143896_84387	NW_004516141.1	Scaffold753	84387	AA	CC	1946976848
SNP_P4_143897_84403	NW_004516141.1	Scaffold753	84403	AA	GG	1946976850
SNP_P4_143898_84406	NW_004516141.1	Scaffold753	84406	TT	CC	1946976852
SNP_P4_143899_94785	NW_004516141.1	Scaffold753	94785	TT	AA	1946976854
SNP_P4_143900_118106	NW_004516141.1	Scaffold753	118106	CC	TT	1946976856
SNP_P4_143901_123070	NW_004516141.1	Scaffold753	123070	CC	TT	1946976857
SNP_P4_143902_123085	NW_004516141.1	Scaffold753	123085	GG	AA	1946976859
SNP_P4_143903_123100	NW_004516141.1	Scaffold753	123100	TT	CC	1946976861
SNP_P4_143904_150068	NW_004516141.1	Scaffold753	150068	AA	TT	1946976863
SNP_P4_143905_150759	NW_004516141.1	Scaffold753	150759	AA	GG	1946976865
SNP_P4_143906_150887	NW_004516141.1	Scaffold753	150887	AA	TT	1946976867
SNP_P4_143907_164249	NW_004516141.1	Scaffold753	164249	TT	CC	1946976869
SNP_P4_143908_205141	NW_004516141.1	Scaffold753	205141	AA	CC	1946976871
SNP_P4_143909_223568	NW_004516141.1	Scaffold753	223568	AA	GG	1946976873
SNP_P4_143910_228714	NW_004516141.1	Scaffold753	228714	AA	GG	1946976875
SNP_P4_143911_228834	NW_004516141.1	Scaffold753	228834	AA	GG	1946976877
SNP_P4_143912_228884	NW_004516141.1	Scaffold753	228884	TT	CC	1946976879
SNP_P4_143913_228909	NW_004516141.1	Scaffold753	228909	AA	TT	1946976881
SNP_P4_143914_228944	NW_004516141.1	Scaffold753	228944	AA	TT	1946976883
SNP_P4_143915_228959	NW_004516141.1	Scaffold753	228959	GG	TT	1946976885
SNP_P4_143916_229057	NW_004516141.1	Scaffold753	229057	TT	CC	1946976887
SNP_P4_143917_229213	NW_004516141.1	Scaffold753	229213	CC	TT	1946976889
SNP_P4_143918_229273	NW_004516141.1	Scaffold753	229273	CC	TT	1946976892
SNP_P4_143919_268464	NW_004516141.1	Scaffold753	268464	AA	CC	1946976894
SNP_P4_143920_270294	NW_004516141.1	Scaffold753	270294	CC	TT	1946976896
SNP_P4_143921_276256	NW_004516141.1	Scaffold753	276256	AA	CC	1946976898
SNP_P4_143922_276310	NW_004516141.1	Scaffold753	276310	GG	CC	1946976899
SNP_P4_143924_286844	NW_004516141.1	Scaffold753	286844	AA	GG	1946976902
SNP_P4_143925_286884	NW_004516141.1	Scaffold753	286884	AA	GG	1946976904
SNP_P4_143926_311024	NW_004516141.1	Scaffold753	311024	GG	TT	1946976905
SNP_P4_143929_6898	NW_004516142.1	Scaffold754	6898	GG	AA	1946976907
SNP_P4_143930_15354	NW_004516142.1	Scaffold754	15354	AA	GG	1946976909
SNP_P4_143931_25243	NW_004516142.1	Scaffold754	25243	CC	AA	1946976911
SNP_P4_143932_25609	NW_004516142.1	Scaffold754	25609	TT	CC	1946976913
SNP_P4_143933_25731	NW_004516142.1	Scaffold754	25731	GG	AA	1946976915
SNP_P4_143934_25734	NW_004516142.1	Scaffold754	25734	TT	GG	1946976918

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_143936_26324	NW_004516142.1	Scaffold754	26324	CC	GG	1946976922
SNP_P4_143937_26326	NW_004516142.1	Scaffold754	26326	TT	CC	1946976924
SNP_P4_143939_72824	NW_004516144.1	Scaffold757	72824	CC	TT	1946976926
SNP_P4_143940_72867	NW_004516144.1	Scaffold757	72867	AA	GG	1946976928
SNP_P4_143941_72922	NW_004516144.1	Scaffold757	72922	TT	CC	1946976930
SNP_P4_143942_72928	NW_004516144.1	Scaffold757	72928	GG	AA	1946976932
SNP_P4_143943_72937	NW_004516144.1	Scaffold757	72937	GG	AA	1946976934
SNP_P4_143944_72971	NW_004516144.1	Scaffold757	72971	CC	TT	1946976936
SNP_P4_143945_72988	NW_004516144.1	Scaffold757	72988	GG	AA	1946976938
SNP_P4_143946_73004	NW_004516144.1	Scaffold757	73004	GG	AA	1946976940
SNP_P4_143947_73034	NW_004516144.1	Scaffold757	73034	CC	AA	1946976942
SNP_P4_143948_73089	NW_004516144.1	Scaffold757	73089	TT	AA	1946976944
SNP_P4_143949_73122	NW_004516144.1	Scaffold757	73122	AA	GG	1946976946
SNP_P4_143950_73123	NW_004516144.1	Scaffold757	73123	AA	GG	1946976948
SNP_P4_143951_2130	NW_004516145.1	Scaffold758	2130	TT	CC	1946976950
SNP_P4_143953_11072	NW_004516145.1	Scaffold758	11072	GG	TT	1946976952
SNP_P4_143954_11096	NW_004516145.1	Scaffold758	11096	GG	TT	1946976954
SNP_P4_143955_12009	NW_004516145.1	Scaffold758	12009	CC	GG	1946976956
SNP_P4_143956_12017	NW_004516145.1	Scaffold758	12017	AA	TT	1946976958
SNP_P4_143957_12604	NW_004516145.1	Scaffold758	12604	AA	GG	1946976960
SNP_P4_143958_13233	NW_004516145.1	Scaffold758	13233	GG	AA	1946976962
SNP_P4_143960_16503	NW_004516145.1	Scaffold758	16503	AA	GG	1946976964
SNP_P4_143961_19559	NW_004516145.1	Scaffold758	19559	TT	GG	1946976966
SNP_P4_143962_22138	NW_004516145.1	Scaffold758	22138	GG	AA	1946976968
SNP_P4_143963_22272	NW_004516145.1	Scaffold758	22272	TT	CC	1946976970
SNP_P4_143964_22273	NW_004516145.1	Scaffold758	22273	AA	GG	1946976972
SNP_P4_143965_22297	NW_004516145.1	Scaffold758	22297	CC	AA	1946976974
SNP_P4_143966_22320	NW_004516145.1	Scaffold758	22320	CC	TT	1946976977
SNP_P4_143967_22331	NW_004516145.1	Scaffold758	22331	AA	GG	1946976979
SNP_P4_143968_22356	NW_004516145.1	Scaffold758	22356	TT	CC	1946976980
SNP_P4_143969_22392	NW_004516145.1	Scaffold758	22392	CC	TT	1946976983
SNP_P4_143971_22606	NW_004516145.1	Scaffold758	22606	TT	CC	1946976985
SNP_P4_143972_22623	NW_004516145.1	Scaffold758	22623	TT	CC	1946976987
SNP_P4_143973_22627	NW_004516145.1	Scaffold758	22627	AA	CC	1946976989
SNP_P4_143974_22631	NW_004516145.1	Scaffold758	22631	AA	GG	1946976991
SNP_P4_143975_23747	NW_004516145.1	Scaffold758	23747	GG	CC	1946976993
SNP_P4_143976_24025	NW_004516145.1	Scaffold758	24025	GG	AA	1946976995
SNP_P4_143978_28680	NW_004516145.1	Scaffold758	28680	AA	CC	1946976997
SNP_P4_143979_28709	NW_004516145.1	Scaffold758	28709	AA	CC	1946976999
SNP_P4_143980_54342	NW_004516145.1	Scaffold758	54342	GG	AA	1946977001
SNP_P4_143981_58861	NW_004516145.1	Scaffold758	58861	GG	AA	1946977003

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_143983_60829	NW_004516145.1	Scaffold758	60829	AA	TT	1946977007
SNP_P4_143984_60830	NW_004516145.1	Scaffold758	60830	AA	TT	1946977009
SNP_P4_143985_60838	NW_004516145.1	Scaffold758	60838	GG	CC	1946977011
SNP_P4_143986_80878	NW_004516145.1	Scaffold758	80878	GG	AA	1946977014
SNP_P4_143987_115845	NW_004516145.1	Scaffold758	115845	AA	GG	1946977015
SNP_P4_143988_116312	NW_004516145.1	Scaffold758	116312	GG	CC	1946977017
SNP_P4_143989_116324	NW_004516145.1	Scaffold758	116324	TT	CC	1946977019
SNP_P4_143990_116421	NW_004516145.1	Scaffold758	116421	TT	CC	1946977021
SNP_P4_143991_116460	NW_004516145.1	Scaffold758	116460	GG	AA	1946977023
SNP_P4_143992_116511	NW_004516145.1	Scaffold758	116511	GG	CC	1946977025
SNP_P4_143993_116805	NW_004516145.1	Scaffold758	116805	AA	TT	1946977027
SNP_P4_143994_119608	NW_004516145.1	Scaffold758	119608	CC	TT	1946977029
SNP_P4_143995_119828	NW_004516145.1	Scaffold758	119828	TT	CC	1946977032
SNP_P4_143996_119834	NW_004516145.1	Scaffold758	119834	TT	CC	1946977034
SNP_P4_143997_120004	NW_004516145.1	Scaffold758	120004	AA	GG	1946977036
SNP_P4_143998_120057	NW_004516145.1	Scaffold758	120057	AA	GG	1946977038
SNP_P4_143999_120123	NW_004516145.1	Scaffold758	120123	TT	CC	1946977040
SNP_P4_144000_1876	NW_004516146.1	Scaffold759	1876	CC	TT	1946977042
SNP_P4_144001_3234	NW_004516146.1	Scaffold759	3234	TT	CC	1946977044
SNP_P4_144002_6113	NW_004516146.1	Scaffold759	6113	TT	GG	1946977046
SNP_P4_144003_6120	NW_004516146.1	Scaffold759	6120	CC	TT	1946977048
SNP_P4_144004_6122	NW_004516146.1	Scaffold759	6122	CC	TT	1946977051
SNP_P4_144005_6128	NW_004516146.1	Scaffold759	6128	TT	CC	1946977053
SNP_P4_144006_6164	NW_004516146.1	Scaffold759	6164	TT	CC	1946977055
SNP_P4_144007_6193	NW_004516146.1	Scaffold759	6193	AA	CC	1946977057
SNP_P4_144008_6237	NW_004516146.1	Scaffold759	6237	CC	GG	1946977059
SNP_P4_144009_6250	NW_004516146.1	Scaffold759	6250	AA	CC	1946977061
SNP_P4_144010_6458	NW_004516146.1	Scaffold759	6458	GG	TT	1946977063
SNP_P4_144011_6625	NW_004516146.1	Scaffold759	6625	GG	AA	1946977065
SNP_P4_144012_6921	NW_004516146.1	Scaffold759	6921	TT	CC	1946977067
SNP_P4_144013_6998	NW_004516146.1	Scaffold759	6998	GG	AA	1946977069
SNP_P4_144014_7001	NW_004516146.1	Scaffold759	7001	GG	AA	1946977071
SNP_P4_144015_7066	NW_004516146.1	Scaffold759	7066	AA	CC	1946977073
SNP_P4_144016_7099	NW_004516146.1	Scaffold759	7099	TT	CC	1946977075
SNP_P4_144017_7185	NW_004516146.1	Scaffold759	7185	TT	CC	1946977077
SNP_P4_144018_7234	NW_004516146.1	Scaffold759	7234	AA	GG	1946977079
SNP_P4_144019_7261	NW_004516146.1	Scaffold759	7261	GG	AA	1946977081
SNP_P4_144020_7297	NW_004516146.1	Scaffold759	7297	TT	CC	1946977083
SNP_P4_144021_7336	NW_004516146.1	Scaffold759	7336	TT	CC	1946977085
SNP_P4_144022_7369	NW_004516146.1	Scaffold759	7369	GG	AA	1946977087
SNP_P4_144023_16775	NW_004516146.1	Scaffold759	16775	GG	AA	1946977088

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_144025_46631	NW_004516146.1	Scaffold759	46631	AA	GG	1946977092
SNP_P4_144026_48115	NW_004516146.1	Scaffold759	48115	CC	GG	1946977094
SNP_P4_144027_48123	NW_004516146.1	Scaffold759	48123	AA	TT	1946977096
SNP_P4_144028_48124	NW_004516146.1	Scaffold759	48124	TT	AA	1946977098
SNP_P4_144029_66712	NW_004516146.1	Scaffold759	66712	AA	GG	1946977100
SNP_P4_144030_66759	NW_004516146.1	Scaffold759	66759	TT	CC	1946977102
SNP_P4_144031_66810	NW_004516146.1	Scaffold759	66810	AA	GG	1946977104
SNP_P4_144032_66981	NW_004516146.1	Scaffold759	66981	AA	TT	1946977106
SNP_P4_144033_72958	NW_004516146.1	Scaffold759	72958	GG	TT	1946977108
SNP_P4_144034_77069	NW_004516146.1	Scaffold759	77069	AA	GG	1946977110
SNP_P4_144035_77203	NW_004516146.1	Scaffold759	77203	AA	TT	1946977112
SNP_P4_144036_106907	NW_004516146.1	Scaffold759	106907	CC	AA	1946977114
SNP_P4_144038_109740	NW_004516146.1	Scaffold759	109740	TT	CC	1946977116
SNP_P4_144039_110061	NW_004516146.1	Scaffold759	110061	CC	TT	1946977117
SNP_P4_144040_116906	NW_004516146.1	Scaffold759	116906	CC	GG	1946977119
SNP_P4_144041_124658	NW_004516146.1	Scaffold759	124658	GG	AA	1946977121
SNP_P4_144042_136158	NW_004516146.1	Scaffold759	136158	TT	AA	1946977122
SNP_P4_144043_138315	NW_004516146.1	Scaffold759	138315	AA	TT	1946977123
SNP_P4_144044_138567	NW_004516146.1	Scaffold759	138567	TT	GG	1946977124
SNP_P4_144045_138600	NW_004516146.1	Scaffold759	138600	AA	GG	1946977125
SNP_P4_144046_138619	NW_004516146.1	Scaffold759	138619	AA	TT	1946977127
SNP_P4_144047_139016	NW_004516146.1	Scaffold759	139016	AA	GG	1946977129
SNP_P4_144048_139753	NW_004516146.1	Scaffold759	139753	CC	TT	1946977131
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SNP_P4_144050_485	NW_004516147.1	Scaffold760	485	AA	GG	1946977135
SNP_P4_144051_644	NW_004516147.1	Scaffold760	644	AA	CC	1946977137
SNP_P4_144052_8630	NW_004516147.1	Scaffold760	8630	GG	AA	1946977139
SNP_P4_144053_8683	NW_004516147.1	Scaffold760	8683	CC	GG	1946977140
SNP_P4_144054_8968	NW_004516147.1	Scaffold760	8968	GG	CC	1946977143
SNP_P4_144055_8992	NW_004516147.1	Scaffold760	8992	GG	AA	1946977145
SNP_P4_144056_11258	NW_004516147.1	Scaffold760	11258	AA	GG	1946977147
SNP_P4_144057_11261	NW_004516147.1	Scaffold760	11261	CC	TT	1946977149
SNP_P4_144058_11642	NW_004516147.1	Scaffold760	11642	GG	TT	1946977151
SNP_P4_144059_12520	NW_004516147.1	Scaffold760	12520	GG	AA	1946977153
SNP_P4_144060_12660	NW_004516147.1	Scaffold760	12660	AA	GG	1946977155
SNP_P4_144061_12846	NW_004516147.1	Scaffold760	12846	TT	AA	1946977157
SNP_P4_144062_12850	NW_004516147.1	Scaffold760	12850	CC	GG	1946977159
SNP_P4_144063_13033	NW_004516147.1	Scaffold760	13033	GG	AA	1946977161
SNP_P4_144064_13074	NW_004516147.1	Scaffold760	13074	AA	GG	1946977163
SNP_P4_144065_13235	NW_004516147.1	Scaffold760	13235	CC	TT	1946977165
SNP_P4_144066_15470	NW_004516147.1	Scaffold760	15470	GG	AA	1946977167

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_144068_16056	NW_004516147.1	Scaffold760	16056	GG	TT	1946977171
SNP_P4_144069_16076	NW_004516147.1	Scaffold760	16076	CC	GG	1946977173
SNP_P4_144070_16151	NW_004516147.1	Scaffold760	16151	CC	TT	1946977175
SNP_P4_144071_2912	NW_004516151.1	Scaffold766	2912	CC	TT	1946977178
SNP_P4_144072_2925	NW_004516151.1	Scaffold766	2925	TT	CC	1946977180
SNP_P4_144073_3199	NW_004516151.1	Scaffold766	3199	GG	AA	1946977182
SNP_P4_144074_3257	NW_004516151.1	Scaffold766	3257	AA	GG	1946977184
SNP_P4_144075_3289	NW_004516151.1	Scaffold766	3289	GG	AA	1946977186
SNP_P4_144076_4491	NW_004516151.1	Scaffold766	4491	AA	TT	1946977189
SNP_P4_144077_4924	NW_004516151.1	Scaffold766	4924	TT	AA	1946977191
SNP_P4_144078_4925	NW_004516151.1	Scaffold766	4925	TT	CC	1946977193
SNP_P4_144079_5177	NW_004516151.1	Scaffold766	5177	TT	GG	1946977195
SNP_P4_144080_5454	NW_004516151.1	Scaffold766	5454	TT	CC	1946977197
SNP_P4_144081_5473	NW_004516151.1	Scaffold766	5473	AA	TT	1946977199
SNP_P4_144083_18053	NW_004516151.1	Scaffold766	18053	TT	GG	1946977201
SNP_P4_144084_25785	NW_004516151.1	Scaffold766	25785	GG	AA	1946977203
SNP_P4_144085_27448	NW_004516151.1	Scaffold766	27448	TT	CC	1946977205
SNP_P4_144086_27539	NW_004516151.1	Scaffold766	27539	GG	TT	1946977207
SNP_P4_144087_27919	NW_004516151.1	Scaffold766	27919	CC	TT	1946977209
SNP_P4_144088_30513	NW_004516151.1	Scaffold766	30513	AA	GG	1946977211
SNP_P4_144091_79664	NW_004516151.1	Scaffold766	79664	AA	GG	1946977213
SNP_P4_144092_79685	NW_004516151.1	Scaffold766	79685	GG	TT	1946977215
SNP_P4_144093_79693	NW_004516151.1	Scaffold766	79693	CC	TT	1946977217
SNP_P4_144094_89880	NW_004516151.1	Scaffold766	89880	CC	TT	1946977219
SNP_P4_144095_138232	NW_004516151.1	Scaffold766	138232	GG	AA	1946977221
SNP_P4_144097_144810	NW_004516151.1	Scaffold766	144810	AA	CC	1946977223
SNP_P4_144099_188303	NW_004516151.1	Scaffold766	188303	CC	TT	1946977225
SNP_P4_144100_188534	NW_004516151.1	Scaffold766	188534	AA	GG	1946977227
SNP_P4_144101_188772	NW_004516151.1	Scaffold766	188772	TT	AA	1946977229
SNP_P4_144102_188800	NW_004516151.1	Scaffold766	188800	GG	AA	1946977231
SNP_P4_144103_189580	NW_004516151.1	Scaffold766	189580	AA	GG	1946977233
SNP_P4_144104_189853	NW_004516151.1	Scaffold766	189853	TT	CC	1946977235
SNP_P4_144105_189902	NW_004516151.1	Scaffold766	189902	TT	CC	1946977238
SNP_P4_144106_189997	NW_004516151.1	Scaffold766	189997	AA	GG	1946977240
SNP_P4_144107_190013	NW_004516151.1	Scaffold766	190013	GG	AA	1946977242
SNP_P4_144108_200331	NW_004516151.1	Scaffold766	200331	TT	CC	1946977244
SNP_P4_144109_200487	NW_004516151.1	Scaffold766	200487	AA	CC	1946977246
SNP_P4_144110_200511	NW_004516151.1	Scaffold766	200511	AA	CC	1946977248
SNP_P4_144111_200513	NW_004516151.1	Scaffold766	200513	TT	AA	1946977250
SNP_P4_144113_214016	NW_004516151.1	Scaffold766	214016	GG	AA	1946977252
SNP_P4_144114_214790	NW_004516151.1	Scaffold766	214790	AA	CC	1946977254

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_144117_229988	NW_004516151.1	Scaffold766	229988	AA	GG	1946977260
SNP_P4_144118_230001	NW_004516151.1	Scaffold766	230001	AA	GG	1946977317
SNP_P4_144119_230026	NW_004516151.1	Scaffold766	230026	CC	AA	1946977319
SNP_P4_144120_230041	NW_004516151.1	Scaffold766	230041	TT	CC	1946977321
SNP_P4_144121_230050	NW_004516151.1	Scaffold766	230050	AA	GG	1946977324
SNP_P4_144122_243503	NW_004516151.1	Scaffold766	243503	AA	TT	1946977326
SNP_P4_144124_243854	NW_004516151.1	Scaffold766	243854	AA	GG	1946977328
SNP_P4_144125_243954	NW_004516151.1	Scaffold766	243954	GG	AA	1946977330
SNP_P4_144126_268899	NW_004516151.1	Scaffold766	268899	TT	GG	1946977332
SNP_P4_144127_268919	NW_004516151.1	Scaffold766	268919	AA	GG	1946977334
SNP_P4_144128_268920	NW_004516151.1	Scaffold766	268920	AA	GG	1946977336
SNP_P4_144129_269147	NW_004516151.1	Scaffold766	269147	AA	CC	1946977338
SNP_P4_144130_269199	NW_004516151.1	Scaffold766	269199	TT	AA	1946977341
SNP_P4_144131_269203	NW_004516151.1	Scaffold766	269203	GG	AA	1946977343
SNP_P4_144132_269243	NW_004516151.1	Scaffold766	269243	CC	TT	1946977345
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SNP_P4_144135_273061	NW_004516151.1	Scaffold766	273061	TT	CC	1946977351
SNP_P4_144136_273232	NW_004516151.1	Scaffold766	273232	GG	AA	1946977353
SNP_P4_144137_273354	NW_004516151.1	Scaffold766	273354	AA	TT	1946977355
SNP_P4_144138_274570	NW_004516151.1	Scaffold766	274570	TT	CC	1946977357
SNP_P4_144139_274615	NW_004516151.1	Scaffold766	274615	GG	AA	1946977359
SNP_P4_144140_274965	NW_004516151.1	Scaffold766	274965	TT	GG	1946977361
SNP_P4_144141_57	NW_004516153.1	Scaffold768	57	GG	TT	1946977363
SNP_P4_144142_76	NW_004516153.1	Scaffold768	76	GG	AA	1946977365
SNP_P4_144143_208	NW_004516153.1	Scaffold768	208	TT	AA	1946977367
SNP_P4_144144_256	NW_004516153.1	Scaffold768	256	AA	TT	1946977369
SNP_P4_144145_302	NW_004516153.1	Scaffold768	302	TT	AA	1946977372
SNP_P4_144146_345	NW_004516153.1	Scaffold768	345	CC	TT	1946977374
SNP_P4_144147_478	NW_004516153.1	Scaffold768	478	TT	CC	1946977376
SNP_P4_144148_483	NW_004516153.1	Scaffold768	483	AA	GG	1946977378
SNP_P4_144149_525	NW_004516153.1	Scaffold768	525	CC	GG	1946977380
SNP_P4_144151_618	NW_004516153.1	Scaffold768	618	CC	AA	1946977382
SNP_P4_144152_682	NW_004516153.1	Scaffold768	682	GG	AA	1946977384
SNP_P4_144153_749	NW_004516153.1	Scaffold768	749	GG	AA	1946977386
SNP_P4_144154_765	NW_004516153.1	Scaffold768	765	GG	AA	1946977388
SNP_P4_144155_894	NW_004516153.1	Scaffold768	894	AA	GG	1946977391
SNP_P4_144156_954	NW_004516153.1	Scaffold768	954	AA	TT	1946977393
SNP_P4_144157_962	NW_004516153.1	Scaffold768	962	GG	AA	1946977395
SNP_P4_144158_1007	NW_004516153.1	Scaffold768	1007	TT	AA	1946977397

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_144161_1147	NW_004516153.1	Scaffold768	1147	CC	AA	1946977401
SNP_P4_144162_64	NW_004516154.1	Scaffold769	64	GG	TT	1946977403
SNP_P4_144163_81	NW_004516154.1	Scaffold769	81	AA	TT	1946977405
SNP_P4_144165_177	NW_004516154.1	Scaffold769	177	GG	TT	1946977408
SNP_P4_144166_209	NW_004516154.1	Scaffold769	209	AA	GG	1946977410
SNP_P4_144167_429	NW_004516154.1	Scaffold769	429	TT	AA	1946977412
SNP_P4_144168_542	NW_004516154.1	Scaffold769	542	TT	GG	1946977414
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SNP_P4_144171_1476	NW_004516154.1	Scaffold769	1476	GG	AA	1946977418
SNP_P4_144172_1618	NW_004516154.1	Scaffold769	1618	TT	AA	1946977420
SNP_P4_144173_1632	NW_004516154.1	Scaffold769	1632	AA	CC	1946977422
SNP_P4_144174_1681	NW_004516154.1	Scaffold769	1681	AA	TT	1946977424
SNP_P4_144175_1808	NW_004516154.1	Scaffold769	1808	TT	GG	1946977427
SNP_P4_144176_1878	NW_004516154.1	Scaffold769	1878	GG	AA	1946977429
SNP_P4_144178_2824	NW_004516154.1	Scaffold769	2824	CC	GG	1946977431
SNP_P4_144179_2918	NW_004516154.1	Scaffold769	2918	AA	GG	1946977433
SNP_P4_144180_2921	NW_004516154.1	Scaffold769	2921	GG	CC	1946977435
SNP_P4_144181_3050	NW_004516154.1	Scaffold769	3050	GG	TT	1946977437
SNP_P4_144182_3147	NW_004516154.1	Scaffold769	3147	GG	AA	1946977439
SNP_P4_144184_3523	NW_004516154.1	Scaffold769	3523	CC	AA	1946977441
SNP_P4_144185_3553	NW_004516154.1	Scaffold769	3553	CC	TT	1946977443
SNP_P4_144186_5288	NW_004516154.1	Scaffold769	5288	AA	GG	1946977445
SNP_P4_144187_5308	NW_004516154.1	Scaffold769	5308	TT	CC	1946977447
SNP_P4_144191_27304	NW_004516154.1	Scaffold769	27304	AA	GG	1946977449
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SNP_P4_144193_28958	NW_004516154.1	Scaffold769	28958	CC	TT	1946977453
SNP_P4_144194_29244	NW_004516154.1	Scaffold769	29244	AA	CC	1946977455
SNP_P4_144196_29473	NW_004516154.1	Scaffold769	29473	AA	GG	1946977456
SNP_P4_144197_29699	NW_004516154.1	Scaffold769	29699	CC	TT	1946977458
SNP_P4_144198_29828	NW_004516154.1	Scaffold769	29828	AA	GG	1946977460
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SNP_P4_144200_82803	NW_004516154.1	Scaffold769	82803	AA	CC	1946977465
SNP_P4_144202_108568	NW_004516154.1	Scaffold769	108568	GG	TT	1946977467
SNP_P4_144203_116677	NW_004516154.1	Scaffold769	116677	AA	TT	1946977469
SNP_P4_144204_116715	NW_004516154.1	Scaffold769	116715	TT	AA	1946977472
SNP_P4_144205_116717	NW_004516154.1	Scaffold769	116717	AA	CC	1946977474
SNP_P4_144206_117126	NW_004516154.1	Scaffold769	117126	CC	GG	1946977476
SNP_P4_144207_117127	NW_004516154.1	Scaffold769	117127	GG	AA	1946977478
SNP_P4_144209_117159	NW_004516154.1	Scaffold769	117159	TT	AA	1946977480
SNP_P4_144210_117165	NW_004516154.1	Scaffold769	117165	GG	AA	1946977482
SNP_P4_144211_43	NW_004516155.1	Scaffold771	43	GG	AA	1946977484

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_144214_93	NW_004516155.1	Scaffold771	93	TT	AA	1946977490
SNP_P4_144215_314	NW_004516155.1	Scaffold771	314	AA	GG	1946977492
SNP_P4_144216_342	NW_004516155.1	Scaffold771	342	CC	TT	1946977494
SNP_P4_144217_405	NW_004516155.1	Scaffold771	405	TT	CC	1946977496
SNP_P4_144218_587	NW_004516155.1	Scaffold771	587	AA	TT	1946977498
SNP_P4_144219_17762	NW_004516155.1	Scaffold771	17762	GG	TT	1946977500
SNP_P4_144220_25767	NW_004516155.1	Scaffold771	25767	GG	AA	1946977502
SNP_P4_144221_36412	NW_004516155.1	Scaffold771	36412	TT	CC	1946977504
SNP_P4_144222_54712	NW_004516155.1	Scaffold771	54712	AA	GG	1946977507
SNP_P4_144223_57458	NW_004516155.1	Scaffold771	57458	TT	AA	1946977509
SNP_P4_144224_58302	NW_004516155.1	Scaffold771	58302	GG	AA	1946977510
SNP_P4_144225_58320	NW_004516155.1	Scaffold771	58320	TT	CC	1946977512
SNP_P4_144226_58335	NW_004516155.1	Scaffold771	58335	GG	AA	1946977515
SNP_P4_144227_58336	NW_004516155.1	Scaffold771	58336	GG	CC	1946977516
SNP_P4_144228_58344	NW_004516155.1	Scaffold771	58344	AA	TT	1946977519
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SNP_P4_144231_60817	NW_004516155.1	Scaffold771	60817	TT	CC	1946977525
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SNP_P4_144233_69254	NW_004516155.1	Scaffold771	69254	AA	GG	1946977529
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SNP_P4_144235_69294	NW_004516155.1	Scaffold771	69294	TT	GG	1946977532
SNP_P4_144236_69295	NW_004516155.1	Scaffold771	69295	TT	AA	1946977534
SNP_P4_144238_93428	NW_004516155.1	Scaffold771	93428	TT	AA	1946977536
SNP_P4_144239_7562	NW_004516156.1	Scaffold772	7562	CC	TT	1946977538
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SNP_P4_144242_8524	NW_004516156.1	Scaffold772	8524	GG	TT	1946977545
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SNP_P4_144247_12163	NW_004516156.1	Scaffold772	12163	GG	TT	1946977553
SNP_P4_144248_16803	NW_004516156.1	Scaffold772	16803	CC	TT	1946977555
SNP_P4_144249_17138	NW_004516156.1	Scaffold772	17138	TT	CC	1946977557
SNP_P4_144250_18060	NW_004516156.1	Scaffold772	18060	TT	CC	1946977559
SNP_P4_144251_18081	NW_004516156.1	Scaffold772	18081	GG	TT	1946977561
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SNP_P4_144253_18104	NW_004516156.1	Scaffold772	18104	CC	TT	1946977565
SNP_P4_144254_18141	NW_004516156.1	Scaffold772	18141	GG	AA	1946977567
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_144258_18186	NW_004516156.1	Scaffold772	18186	TT	CC	1946977575
SNP_P4_144259_18197	NW_004516156.1	Scaffold772	18197	AA	GG	1946977577
SNP_P4_144260_18240	NW_004516156.1	Scaffold772	18240	AA	GG	1946977579
SNP_P4_144261_18257	NW_004516156.1	Scaffold772	18257	CC	TT	1946977581
SNP_P4_144262_18281	NW_004516156.1	Scaffold772	18281	AA	CC	1946977583
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SNP_P4_144264_18345	NW_004516156.1	Scaffold772	18345	AA	GG	1946977587
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SNP_P4_144266_18554	NW_004516156.1	Scaffold772	18554	TT	GG	1946977591
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SNP_P4_144270_24463	NW_004516156.1	Scaffold772	24463	AA	GG	1946977597
SNP_P4_144271_33944	NW_004516156.1	Scaffold772	33944	TT	CC	1946977599
SNP_P4_144272_38457	NW_004516156.1	Scaffold772	38457	TT	AA	1946977601
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SNP_P4_144296_132545	NW_004516156.1	Scaffold772	132545	CC	AA	1946977645
SNP_P4_144297_137315	NW_004516156.1	Scaffold772	137315	TT	AA	1946977648
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SNP_P4_144299_139365	NW_004516156.1	Scaffold772	139365	GG	AA	1946977652
SNP_P4_144300_139398	NW_004516156.1	Scaffold772	139398	GG	AA	1946977654

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_144303_139773	NW_004516156.1	Scaffold772	139773	CC	TT	1946977660
SNP_P4_144304_139777	NW_004516156.1	Scaffold772	139777	AA	TT	1946977663
SNP_P4_144306_163268	NW_004516156.1	Scaffold772	163268	GG	TT	1946977665
SNP_P4_144307_178735	NW_004516156.1	Scaffold772	178735	AA	CC	1946977667
SNP_P4_144308_205779	NW_004516156.1	Scaffold772	205779	CC	TT	1946977668
SNP_P4_144309_205833	NW_004516156.1	Scaffold772	205833	TT	GG	1946977671
SNP_P4_144310_205846	NW_004516156.1	Scaffold772	205846	TT	CC	1946977673
SNP_P4_144311_209659	NW_004516156.1	Scaffold772	209659	AA	GG	1946977675
SNP_P4_144312_211395	NW_004516156.1	Scaffold772	211395	GG	AA	1946977677
SNP_P4_144313_211480	NW_004516156.1	Scaffold772	211480	AA	CC	1946977679
SNP_P4_144314_211497	NW_004516156.1	Scaffold772	211497	AA	GG	1946977682
SNP_P4_144316_212531	NW_004516156.1	Scaffold772	212531	AA	GG	1946977684
SNP_P4_144317_212960	NW_004516156.1	Scaffold772	212960	AA	CC	1946977686
SNP_P4_144318_213601	NW_004516156.1	Scaffold772	213601	TT	CC	1946977688
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SNP_P4_144321_213670	NW_004516156.1	Scaffold772	213670	GG	AA	1946977692
SNP_P4_144322_213730	NW_004516156.1	Scaffold772	213730	GG	AA	1946977694
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SNP_P4_144325_213851	NW_004516156.1	Scaffold772	213851	GG	TT	1946977700
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SNP_P4_144328_232947	NW_004516156.1	Scaffold772	232947	CC	TT	1946977706
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SNP_P4_144330_236012	NW_004516156.1	Scaffold772	236012	TT	AA	1946977711
SNP_P4_144331_251665	NW_004516156.1	Scaffold772	251665	CC	TT	1946977713
SNP_P4_144334_4837	NW_004516157.1	Scaffold774	4837	AA	CC	1946977715
SNP_P4_144335_16686	NW_004516157.1	Scaffold774	16686	TT	CC	1946977717
SNP_P4_144336_17272	NW_004516157.1	Scaffold774	17272	TT	AA	1946977720
SNP_P4_144337_17790	NW_004516157.1	Scaffold774	17790	AA	TT	1946977722
SNP_P4_144338_22426	NW_004516157.1	Scaffold774	22426	AA	GG	1946977724
SNP_P4_144339_22448	NW_004516157.1	Scaffold774	22448	AA	CC	1946977726
SNP_P4_144340_22786	NW_004516157.1	Scaffold774	22786	AA	TT	1946977728
SNP_P4_144341_688	NW_004516158.1	Scaffold775	688	AA	GG	1946977731
SNP_P4_144342_790	NW_004516158.1	Scaffold775	790	TT	GG	1946977733
SNP_P4_144343_800	NW_004516158.1	Scaffold775	800	CC	TT	1946977735
SNP_P4_144344_818	NW_004516158.1	Scaffold775	818	CC	TT	1946977737
SNP_P4_144345_829	NW_004516158.1	Scaffold775	829	AA	GG	1946977739
SNP_P4_144346_1040	NW_004516158.1	Scaffold775	1040	AA	GG	1946977741
SNP_P4_144347_1047	NW_004516158.1	Scaffold775	1047	TT	AA	1946977743

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_144349_12143	NW_004516158.1	Scaffold775	12143	TT	AA	1946977746
SNP_P4_144350_13209	NW_004516158.1	Scaffold775	13209	CC	TT	1946977748
SNP_P4_144351_16769	NW_004516158.1	Scaffold775	16769	GG	TT	1946977750
SNP_P4_144352_16785	NW_004516158.1	Scaffold775	16785	CC	TT	1946977752
SNP_P4_144353_16787	NW_004516158.1	Scaffold775	16787	TT	GG	1946977754
SNP_P4_144354_16796	NW_004516158.1	Scaffold775	16796	AA	GG	1946977756
SNP_P4_144355_17955	NW_004516158.1	Scaffold775	17955	GG	AA	1946977758
SNP_P4_144356_18110	NW_004516158.1	Scaffold775	18110	AA	GG	1946977760
SNP_P4_144357_22727	NW_004516158.1	Scaffold775	22727	CC	TT	1946977762
SNP_P4_144358_80267	NW_004516158.1	Scaffold775	80267	GG	AA	1946977764
SNP_P4_144359_80269	NW_004516158.1	Scaffold775	80269	GG	AA	1946977767
SNP_P4_144360_84999	NW_004516158.1	Scaffold775	84999	TT	AA	1946977769
SNP_P4_144361_85000	NW_004516158.1	Scaffold775	85000	AA	CC	1946977771
SNP_P4_144362_86160	NW_004516158.1	Scaffold775	86160	GG	CC	1946977773
SNP_P4_144363_99346	NW_004516158.1	Scaffold775	99346	CC	AA	1946977775
SNP_P4_144364_99357	NW_004516158.1	Scaffold775	99357	AA	GG	1946977777
SNP_P4_144365_99405	NW_004516158.1	Scaffold775	99405	TT	CC	1946977778
SNP_P4_144366_100838	NW_004516158.1	Scaffold775	100838	TT	CC	1946977780
SNP_P4_144367_101187	NW_004516158.1	Scaffold775	101187	AA	TT	1946977782
SNP_P4_144368_101200	NW_004516158.1	Scaffold775	101200	AA	GG	1946977784
SNP_P4_144369_101256	NW_004516158.1	Scaffold775	101256	TT	CC	1946977786
SNP_P4_144370_101260	NW_004516158.1	Scaffold775	101260	GG	AA	1946977788
SNP_P4_144371_101383	NW_004516158.1	Scaffold775	101383	TT	CC	1946977790
SNP_P4_144372_101575	NW_004516158.1	Scaffold775	101575	GG	AA	1946977792
SNP_P4_144373_101590	NW_004516158.1	Scaffold775	101590	TT	CC	1946977794
SNP_P4_144374_101604	NW_004516158.1	Scaffold775	101604	AA	CC	1946977796
SNP_P4_144375_101605	NW_004516158.1	Scaffold775	101605	CC	TT	1946977798
SNP_P4_144376_101919	NW_004516158.1	Scaffold775	101919	AA	GG	1946977800
SNP_P4_144377_101930	NW_004516158.1	Scaffold775	101930	AA	CC	1946977802
SNP_P4_144378_104513	NW_004516158.1	Scaffold775	104513	GG	TT	1946977804
SNP_P4_144381_119484	NW_004516158.1	Scaffold775	119484	TT	CC	1946977806
SNP_P4_144382_119500	NW_004516158.1	Scaffold775	119500	TT	AA	1946977808
SNP_P4_144383_119508	NW_004516158.1	Scaffold775	119508	GG	TT	1946977810
SNP_P4_144384_119509	NW_004516158.1	Scaffold775	119509	TT	GG	1946977812
SNP_P4_144385_119512	NW_004516158.1	Scaffold775	119512	TT	CC	1946977813
SNP_P4_144386_124312	NW_004516158.1	Scaffold775	124312	CC	TT	1946977815
SNP_P4_144387_125886	NW_004516158.1	Scaffold775	125886	AA	GG	1946977817
SNP_P4_144388_126635	NW_004516158.1	Scaffold775	126635	GG	AA	1946977819
SNP_P4_144390_155184	NW_004516158.1	Scaffold775	155184	AA	GG	1946977821
SNP_P4_144391_159888	NW_004516158.1	Scaffold775	159888	TT	CC	1946977823
SNP_P4_144392_178128	NW_004516158.1	Scaffold775	178128	GG	AA	1946977825

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_144394_204841	NW_004516158.1	Scaffold775	204841	TT	AA	1946977829
SNP_P4_144395_223424	NW_004516158.1	Scaffold775	223424	TT	CC	1946977831
SNP_P4_144396_223453	NW_004516158.1	Scaffold775	223453	AA	GG	1946977833
SNP_P4_144397_223459	NW_004516158.1	Scaffold775	223459	GG	AA	1946977835
SNP_P4_144398_223469	NW_004516158.1	Scaffold775	223469	TT	CC	1946977837
SNP_P4_144399_223495	NW_004516158.1	Scaffold775	223495	GG	AA	1946977839
SNP_P4_144400_223520	NW_004516158.1	Scaffold775	223520	TT	GG	1946977841
SNP_P4_144401_223552	NW_004516158.1	Scaffold775	223552	TT	GG	1946977843
SNP_P4_144402_223570	NW_004516158.1	Scaffold775	223570	GG	AA	1946977845
SNP_P4_144403_223616	NW_004516158.1	Scaffold775	223616	AA	GG	1946977847
SNP_P4_144404_223694	NW_004516158.1	Scaffold775	223694	CC	TT	1946977849
SNP_P4_144405_224005	NW_004516158.1	Scaffold775	224005	CC	GG	1946977851
SNP_P4_144406_226149	NW_004516158.1	Scaffold775	226149	AA	CC	1946977853
SNP_P4_144408_237212	NW_004516158.1	Scaffold775	237212	GG	CC	1946977855
SNP_P4_144409_237241	NW_004516158.1	Scaffold775	237241	TT	GG	1946977857
SNP_P4_144410_237252	NW_004516158.1	Scaffold775	237252	AA	CC	1946977859
SNP_P4_144411_237259	NW_004516158.1	Scaffold775	237259	GG	AA	1946977861
SNP_P4_144412_237260	NW_004516158.1	Scaffold775	237260	AA	CC	1946977863
SNP_P4_144413_241754	NW_004516158.1	Scaffold775	241754	TT	CC	1946977865
SNP_P4_144414_267227	NW_004516158.1	Scaffold775	267227	CC	TT	1946977867
SNP_P4_144415_267279	NW_004516158.1	Scaffold775	267279	AA	GG	1946977870
SNP_P4_144416_267415	NW_004516158.1	Scaffold775	267415	CC	AA	1946977872
SNP_P4_144417_267485	NW_004516158.1	Scaffold775	267485	TT	CC	1946977874
SNP_P4_144418_267624	NW_004516158.1	Scaffold775	267624	AA	TT	1946977876
SNP_P4_144419_267629	NW_004516158.1	Scaffold775	267629	AA	TT	1946977878
SNP_P4_144420_267636	NW_004516158.1	Scaffold775	267636	AA	GG	1946977880
SNP_P4_144421_288570	NW_004516158.1	Scaffold775	288570	AA	GG	1946977882
SNP_P4_144422_303481	NW_004516158.1	Scaffold775	303481	CC	TT	1946977884
SNP_P4_144423_303923	NW_004516158.1	Scaffold775	303923	TT	CC	1946977886
SNP_P4_144424_321960	NW_004516158.1	Scaffold775	321960	AA	CC	1946977888
SNP_P4_144425_321966	NW_004516158.1	Scaffold775	321966	AA	TT	1946977890
SNP_P4_144426_334299	NW_004516158.1	Scaffold775	334299	AA	GG	1946977892
SNP_P4_144427_335539	NW_004516158.1	Scaffold775	335539	TT	CC	1946977895
SNP_P4_144428_335563	NW_004516158.1	Scaffold775	335563	TT	GG	1946977897
SNP_P4_144429_335636	NW_004516158.1	Scaffold775	335636	GG	TT	1946977899
SNP_P4_144431_360190	NW_004516158.1	Scaffold775	360190	GG	AA	1946977900
SNP_P4_144432_366657	NW_004516158.1	Scaffold775	366657	CC	TT	1946977903
SNP_P4_144434_381649	NW_004516158.1	Scaffold775	381649	GG	CC	1946977904
SNP_P4_144435_381652	NW_004516158.1	Scaffold775	381652	AA	CC	1946977906
SNP_P4_144436_381743	NW_004516158.1	Scaffold775	381743	AA	TT	1946977908
SNP_P4_144437_383624	NW_004516158.1	Scaffold775	383624	AA	GG	1946977910

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_144439_383653	NW_004516158.1	Scaffold775	383653	CC	TT	1946977914
SNP_P4_144442_383699	NW_004516158.1	Scaffold775	383699	CC	TT	1946977916
SNP_P4_144443_383701	NW_004516158.1	Scaffold775	383701	GG	AA	1946977918
SNP_P4_144444_387520	NW_004516158.1	Scaffold775	387520	TT	AA	1946977920
SNP_P4_144445_387743	NW_004516158.1	Scaffold775	387743	CC	AA	1946977922
SNP_P4_144448_424938	NW_004516158.1	Scaffold775	424938	TT	GG	1946977924
SNP_P4_144449_424965	NW_004516158.1	Scaffold775	424965	AA	TT	1946977926
SNP_P4_144450_425295	NW_004516158.1	Scaffold775	425295	GG	AA	1946977928
SNP_P4_144451_430527	NW_004516158.1	Scaffold775	430527	GG	AA	1946977930
SNP_P4_144452_430903	NW_004516158.1	Scaffold775	430903	AA	GG	1946977932
SNP_P4_144453_441004	NW_004516158.1	Scaffold775	441004	AA	GG	1946977934
SNP_P4_144454_443100	NW_004516158.1	Scaffold775	443100	TT	CC	1946977936
SNP_P4_144456_446940	NW_004516158.1	Scaffold775	446940	TT	AA	1946977938
SNP_P4_144457_447641	NW_004516158.1	Scaffold775	447641	TT	CC	1946977940
SNP_P4_144458_448317	NW_004516158.1	Scaffold775	448317	GG	AA	1946977942
SNP_P4_144459_449388	NW_004516158.1	Scaffold775	449388	CC	TT	1946977944
SNP_P4_144461_449872	NW_004516158.1	Scaffold775	449872	CC	TT	1946977946
SNP_P4_144462_450019	NW_004516158.1	Scaffold775	450019	AA	CC	1946977948
SNP_P4_144463_450372	NW_004516158.1	Scaffold775	450372	TT	CC	1946977950
SNP_P4_144465_450548	NW_004516158.1	Scaffold775	450548	TT	CC	1946977952
SNP_P4_144466_463758	NW_004516158.1	Scaffold775	463758	TT	CC	1946977954
SNP_P4_144467_472533	NW_004516158.1	Scaffold775	472533	GG	AA	1946977956
SNP_P4_144468_473415	NW_004516158.1	Scaffold775	473415	TT	GG	1946977958
SNP_P4_144469_473507	NW_004516158.1	Scaffold775	473507	TT	CC	1946977960
SNP_P4_144470_473512	NW_004516158.1	Scaffold775	473512	AA	GG	1946977962
SNP_P4_144471_473573	NW_004516158.1	Scaffold775	473573	AA	GG	1946977964
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SNP_P4_144474_473727	NW_004516158.1	Scaffold775	473727	GG	AA	1946977970
SNP_P4_144475_473810	NW_004516158.1	Scaffold775	473810	TT	CC	1946977972
SNP_P4_144476_473908	NW_004516158.1	Scaffold775	473908	AA	TT	1946977974
SNP_P4_144477_473930	NW_004516158.1	Scaffold775	473930	TT	GG	1946977976
SNP_P4_144478_474020	NW_004516158.1	Scaffold775	474020	AA	CC	1946977978
SNP_P4_144479_476026	NW_004516158.1	Scaffold775	476026	AA	CC	1946977980
SNP_P4_144480_476139	NW_004516158.1	Scaffold775	476139	TT	CC	1946977982
SNP_P4_144481_476181	NW_004516158.1	Scaffold775	476181	CC	TT	1946977984
SNP_P4_144482_476189	NW_004516158.1	Scaffold775	476189	TT	CC	1946977986
SNP_P4_144483_476259	NW_004516158.1	Scaffold775	476259	CC	AA	1946977988
SNP_P4_144484_476281	NW_004516158.1	Scaffold775	476281	AA	GG	1946977990
SNP_P4_144485_476302	NW_004516158.1	Scaffold775	476302	CC	GG	1946977992
SNP_P4_144486_476389	NW_004516158.1	Scaffold775	476389	GG	AA	1946977994

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_144489_488880	NW_004516158.1	Scaffold775	488880	CC	TT	1946978000
SNP_P4_144490_4850	NW_004516159.1	Scaffold776	4850	TT	CC	1946978002
SNP_P4_144491_5950	NW_004516159.1	Scaffold776	5950	AA	TT	1946978004
SNP_P4_144492_23614	NW_004516159.1	Scaffold776	23614	CC	TT	1946978006
SNP_P4_144493_23649	NW_004516159.1	Scaffold776	23649	AA	TT	1946978008
SNP_P4_144494_23850	NW_004516159.1	Scaffold776	23850	AA	GG	1946978010
SNP_P4_144495_23925	NW_004516159.1	Scaffold776	23925	AA	TT	1946978012
SNP_P4_144496_61207	NW_004516159.1	Scaffold776	61207	TT	CC	1946978014
SNP_P4_144497_68095	NW_004516159.1	Scaffold776	68095	AA	GG	1946978016
SNP_P4_144498_68102	NW_004516159.1	Scaffold776	68102	TT	CC	1946978017
SNP_P4_144499_68506	NW_004516159.1	Scaffold776	68506	TT	CC	1946978019
SNP_P4_144500_68558	NW_004516159.1	Scaffold776	68558	GG	TT	1946978021
SNP_P4_144501_68569	NW_004516159.1	Scaffold776	68569	CC	TT	1946978023
SNP_P4_144502_69927	NW_004516159.1	Scaffold776	69927	GG	AA	1946978025
SNP_P4_144503_70112	NW_004516159.1	Scaffold776	70112	GG	AA	1946978027
SNP_P4_144504_71609	NW_004516159.1	Scaffold776	71609	GG	AA	1946978029
SNP_P4_144505_72024	NW_004516159.1	Scaffold776	72024	TT	AA	1946978031
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SNP_P4_144508_75152	NW_004516159.1	Scaffold776	75152	AA	CC	1946978037
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SNP_P4_144511_113509	NW_004516159.1	Scaffold776	113509	AA	GG	1946978043
SNP_P4_144512_115064	NW_004516159.1	Scaffold776	115064	GG	AA	1946978045
SNP_P4_144513_141790	NW_004516159.1	Scaffold776	141790	AA	TT	1946978047
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SNP_P4_144515_144044	NW_004516159.1	Scaffold776	144044	TT	GG	1946978051
SNP_P4_144516_144069	NW_004516159.1	Scaffold776	144069	AA	GG	1946978053
SNP_P4_144517_144070	NW_004516159.1	Scaffold776	144070	AA	TT	1946978055
SNP_P4_144518_145497	NW_004516159.1	Scaffold776	145497	GG	TT	1946978057
SNP_P4_144519_147538	NW_004516159.1	Scaffold776	147538	CC	GG	1946978059
SNP_P4_144520_156755	NW_004516159.1	Scaffold776	156755	AA	GG	1946978062
SNP_P4_144521_176062	NW_004516159.1	Scaffold776	176062	TT	AA	1946978064
SNP_P4_144522_176378	NW_004516159.1	Scaffold776	176378	AA	GG	1946978066
SNP_P4_144523_177745	NW_004516159.1	Scaffold776	177745	CC	TT	1946978068
SNP_P4_144524_177796	NW_004516159.1	Scaffold776	177796	GG	CC	1946978070
SNP_P4_144525_177904	NW_004516159.1	Scaffold776	177904	GG	AA	1946978072
SNP_P4_144526_177906	NW_004516159.1	Scaffold776	177906	AA	GG	1946978074
SNP_P4_144527_177944	NW_004516159.1	Scaffold776	177944	TT	GG	1946978076
SNP_P4_144528_177961	NW_004516159.1	Scaffold776	177961	GG	AA	1946978078

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_144531_178115	NW_004516159.1	Scaffold776	178115	TT	CC	1946978084
SNP_P4_144532_178137	NW_004516159.1	Scaffold776	178137	TT	GG	1946978086
SNP_P4_144533_206689	NW_004516159.1	Scaffold776	206689	AA	GG	1946978088
SNP_P4_144534_206701	NW_004516159.1	Scaffold776	206701	AA	GG	1946978090
SNP_P4_144535_206702	NW_004516159.1	Scaffold776	206702	TT	AA	1946978092
SNP_P4_144536_207169	NW_004516159.1	Scaffold776	207169	CC	AA	1946978094
SNP_P4_144537_216198	NW_004516159.1	Scaffold776	216198	TT	GG	1946978096
SNP_P4_144538_216205	NW_004516159.1	Scaffold776	216205	GG	TT	1946978098
SNP_P4_144539_216427	NW_004516159.1	Scaffold776	216427	TT	CC	1946978100
SNP_P4_144540_216473	NW_004516159.1	Scaffold776	216473	TT	CC	1946978102
SNP_P4_144541_216582	NW_004516159.1	Scaffold776	216582	CC	TT	1946978104
SNP_P4_144542_216604	NW_004516159.1	Scaffold776	216604	CC	AA	1946978106
SNP_P4_144543_218836	NW_004516159.1	Scaffold776	218836	CC	GG	1946978108
SNP_P4_144544_218898	NW_004516159.1	Scaffold776	218898	GG	AA	1946978110
SNP_P4_144545_218909	NW_004516159.1	Scaffold776	218909	AA	GG	1946978112
SNP_P4_144546_219010	NW_004516159.1	Scaffold776	219010	TT	GG	1946978114
SNP_P4_144547_219019	NW_004516159.1	Scaffold776	219019	GG	CC	1946978116
SNP_P4_144548_219212	NW_004516159.1	Scaffold776	219212	AA	GG	1946978118
SNP_P4_144549_219331	NW_004516159.1	Scaffold776	219331	TT	GG	1946978120
SNP_P4_144550_219344	NW_004516159.1	Scaffold776	219344	TT	GG	1946978122
SNP_P4_144551_219358	NW_004516159.1	Scaffold776	219358	CC	AA	1946978124
SNP_P4_144552_219368	NW_004516159.1	Scaffold776	219368	TT	CC	1946978126
SNP_P4_144553_219938	NW_004516159.1	Scaffold776	219938	AA	GG	1946978128
SNP_P4_144554_220028	NW_004516159.1	Scaffold776	220028	AA	GG	1946978130
SNP_P4_144555_220308	NW_004516159.1	Scaffold776	220308	AA	CC	1946978132
SNP_P4_144556_220309	NW_004516159.1	Scaffold776	220309	TT	GG	1946978135
SNP_P4_144557_220318	NW_004516159.1	Scaffold776	220318	TT	GG	1946978137
SNP_P4_144558_220322	NW_004516159.1	Scaffold776	220322	TT	CC	1946978139
SNP_P4_144559_220345	NW_004516159.1	Scaffold776	220345	AA	GG	1946978141
SNP_P4_144560_222701	NW_004516159.1	Scaffold776	222701	TT	CC	1946978143
SNP_P4_144561_222703	NW_004516159.1	Scaffold776	222703	AA	GG	1946978145
SNP_P4_144563_256480	NW_004516159.1	Scaffold776	256480	GG	AA	1946978147
SNP_P4_144564_572	NW_004516160.1	Scaffold778	572	GG	AA	1946978149
SNP_P4_144565_580	NW_004516160.1	Scaffold778	580	AA	CC	1946978151
SNP_P4_144566_331	NW_004516161.1	Scaffold779	331	TT	CC	1946978153
SNP_P4_144567_943	NW_004516161.1	Scaffold779	943	TT	AA	1946978155
SNP_P4_144568_994	NW_004516161.1	Scaffold779	994	CC	AA	1946978157
SNP_P4_144569_1087	NW_004516161.1	Scaffold779	1087	AA	CC	1946978159
SNP_P4_144570_1089	NW_004516161.1	Scaffold779	1089	AA	GG	1946978161
SNP_P4_144571_1090	NW_004516161.1	Scaffold779	1090	AA	TT	1946978163

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_144572_1199	NW_004516161.1	Scaffold779	1199	GG	CC	1946978165
SNP_P4_144573_1211	NW_004516161.1	Scaffold779	1211	AA	GG	1946978167
SNP_P4_144574_1271	NW_004516161.1	Scaffold779	1271	AA	GG	1946978169
SNP_P4_144575_1339	NW_004516161.1	Scaffold779	1339	TT	AA	1946978171
SNP_P4_144576_1345	NW_004516161.1	Scaffold779	1345	TT	CC	1946978173
SNP_P4_144577_1412	NW_004516161.1	Scaffold779	1412	AA	GG	1946978175
SNP_P4_144578_1417	NW_004516161.1	Scaffold779	1417	AA	GG	1946978177
SNP_P4_144579_1425	NW_004516161.1	Scaffold779	1425	TT	AA	1946978179
SNP_P4_144581_1569	NW_004516161.1	Scaffold779	1569	GG	AA	1946978181
SNP_P4_144582_1607	NW_004516161.1	Scaffold779	1607	CC	TT	1946978183
SNP_P4_144583_1635	NW_004516161.1	Scaffold779	1635	TT	AA	1946978185
SNP_P4_144584_1667	NW_004516161.1	Scaffold779	1667	CC	GG	1946978187
SNP_P4_144585_1724	NW_004516161.1	Scaffold779	1724	TT	GG	1946978189
SNP_P4_144586_1744	NW_004516161.1	Scaffold779	1744	CC	GG	1946978192
SNP_P4_144587_1762	NW_004516161.1	Scaffold779	1762	AA	GG	1946978194
SNP_P4_144588_6191	NW_004516161.1	Scaffold779	6191	AA	GG	1946978196
SNP_P4_144589_7160	NW_004516161.1	Scaffold779	7160	AA	GG	1946978198
SNP_P4_144590_8121	NW_004516161.1	Scaffold779	8121	TT	AA	1946978200
SNP_P4_144591_8770	NW_004516161.1	Scaffold779	8770	CC	TT	1946978202
SNP_P4_144592_13885	NW_004516161.1	Scaffold779	13885	AA	GG	1946978204
SNP_P4_144594_14852	NW_004516161.1	Scaffold779	14852	TT	AA	1946978206
SNP_P4_144595_2653	NW_004516162.1	Scaffold781	2653	CC	GG	1946978209
SNP_P4_144596_3009	NW_004516162.1	Scaffold781	3009	GG	AA	1946978210
SNP_P4_144597_3010	NW_004516162.1	Scaffold781	3010	AA	TT	1946978212
SNP_P4_144598_3015	NW_004516162.1	Scaffold781	3015	GG	TT	1946978214
SNP_P4_144599_3018	NW_004516162.1	Scaffold781	3018	TT	GG	1946978216
SNP_P4_144600_3652	NW_004516162.1	Scaffold781	3652	TT	AA	1946978218
SNP_P4_144601_5060	NW_004516162.1	Scaffold781	5060	AA	GG	1946978220
SNP_P4_144602_7382	NW_004516162.1	Scaffold781	7382	GG	AA	1946978222
SNP_P4_144603_30409	NW_004516162.1	Scaffold781	30409	CC	TT	1946978224
SNP_P4_144604_30708	NW_004516162.1	Scaffold781	30708	TT	CC	1946978226
SNP_P4_144605_48	NW_004516164.1	Scaffold783	48	AA	GG	1946978228
SNP_P4_144606_2210	NW_004516164.1	Scaffold783	2210	GG	AA	1946978230
SNP_P4_144609_81645	NW_004516164.1	Scaffold783	81645	AA	TT	1946978232
SNP_P4_144610_91943	NW_004516164.1	Scaffold783	91943	GG	AA	1946978234
SNP_P4_144611_92133	NW_004516164.1	Scaffold783	92133	CC	TT	1946978236
SNP_P4_144612_99089	NW_004516164.1	Scaffold783	99089	AA	GG	1946978238
SNP_P4_144613_99097	NW_004516164.1	Scaffold783	99097	CC	TT	1946978241
SNP_P4_144614_99107	NW_004516164.1	Scaffold783	99107	TT	CC	1946978243
SNP_P4_144615_104243	NW_004516164.1	Scaffold783	104243	CC	TT	1946978245
SNP_P4_144616_104244	NW_004516164.1	Scaffold783	104244	GG	AA	1946978246
SNP_P4_144617_104297	NW_004516164.1	Scaffold783	104297	GG	TT	1946978248

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_144622_120578	NW_004516164.1	Scaffold783	120578	GG	TT	1946978252
SNP_P4_144623_128420	NW_004516164.1	Scaffold783	128420	GG	TT	1946978254
SNP_P4_144624_128543	NW_004516164.1	Scaffold783	128543	TT	GG	1946978256
SNP_P4_144625_128545	NW_004516164.1	Scaffold783	128545	TT	GG	1946978259
SNP_P4_144627_128817	NW_004516164.1	Scaffold783	128817	GG	AA	1946978261
SNP_P4_144628_128846	NW_004516164.1	Scaffold783	128846	CC	TT	1946978263
SNP_P4_144629_128899	NW_004516164.1	Scaffold783	128899	AA	GG	1946978265
SNP_P4_144630_128921	NW_004516164.1	Scaffold783	128921	TT	GG	1946978267
SNP_P4_144631_128972	NW_004516164.1	Scaffold783	128972	CC	TT	1946978269
SNP_P4_144632_131677	NW_004516164.1	Scaffold783	131677	CC	GG	1946978271
SNP_P4_144633_169290	NW_004516164.1	Scaffold783	169290	AA	GG	1946978273
SNP_P4_144634_179860	NW_004516164.1	Scaffold783	179860	TT	CC	1946978275
SNP_P4_144635_180001	NW_004516164.1	Scaffold783	180001	AA	GG	1946978277
SNP_P4_144636_180057	NW_004516164.1	Scaffold783	180057	GG	TT	1946978279
SNP_P4_144637_180262	NW_004516164.1	Scaffold783	180262	CC	TT	1946978281
SNP_P4_144638_180264	NW_004516164.1	Scaffold783	180264	TT	CC	1946978282
SNP_P4_144639_180278	NW_004516164.1	Scaffold783	180278	GG	AA	1946978284
SNP_P4_144640_181021	NW_004516164.1	Scaffold783	181021	GG	AA	1946978286
SNP_P4_144641_181032	NW_004516164.1	Scaffold783	181032	CC	TT	1946978288
SNP_P4_144642_181058	NW_004516164.1	Scaffold783	181058	AA	GG	1946978290
SNP_P4_144643_181076	NW_004516164.1	Scaffold783	181076	TT	AA	1946978292
SNP_P4_144644_196634	NW_004516164.1	Scaffold783	196634	GG	CC	1946978294
SNP_P4_144645_208128	NW_004516164.1	Scaffold783	208128	TT	CC	1946978296
SNP_P4_144646_208130	NW_004516164.1	Scaffold783	208130	GG	AA	1946978298
SNP_P4_144647_208134	NW_004516164.1	Scaffold783	208134	CC	TT	1946978300
SNP_P4_144648_208147	NW_004516164.1	Scaffold783	208147	TT	GG	1946978302
SNP_P4_144649_208155	NW_004516164.1	Scaffold783	208155	GG	TT	1946978304
SNP_P4_144650_208156	NW_004516164.1	Scaffold783	208156	GG	TT	1946978306
SNP_P4_144651_208203	NW_004516164.1	Scaffold783	208203	AA	GG	1946978308
SNP_P4_144652_208324	NW_004516164.1	Scaffold783	208324	TT	CC	1946978310
SNP_P4_144653_208485	NW_004516164.1	Scaffold783	208485	TT	CC	1946978312
SNP_P4_144654_208488	NW_004516164.1	Scaffold783	208488	GG	AA	1946978314
SNP_P4_144655_208545	NW_004516164.1	Scaffold783	208545	AA	GG	1946978316
SNP_P4_144656_208551	NW_004516164.1	Scaffold783	208551	TT	CC	1946978318
SNP_P4_144657_208557	NW_004516164.1	Scaffold783	208557	CC	TT	1946978320
SNP_P4_144658_208563	NW_004516164.1	Scaffold783	208563	GG	AA	1946978322
SNP_P4_144659_208608	NW_004516164.1	Scaffold783	208608	CC	TT	1946978324
SNP_P4_144660_217193	NW_004516164.1	Scaffold783	217193	TT	AA	1946978326
SNP_P4_144661_358	NW_004516168.1	Scaffold787	358	CC	TT	1946978328
SNP_P4_144662_1994	NW_004516168.1	Scaffold787	1994	AA	GG	1946978330
SNP_P4_144663_4739	NW_004516168.1	Scaffold787	4739	AA	TT	1946978332

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_144667_12755	NW_004516168.1	Scaffold787	12755	AA	GG	1946978338
SNP_P4_144668_16507	NW_004516168.1	Scaffold787	16507	GG	AA	1946978340
SNP_P4_144669_19134	NW_004516168.1	Scaffold787	19134	CC	TT	1946978342
SNP_P4_144670_20982	NW_004516168.1	Scaffold787	20982	GG	CC	1946978344
SNP_P4_144671_21084	NW_004516168.1	Scaffold787	21084	GG	AA	1946978346
SNP_P4_144672_21478	NW_004516168.1	Scaffold787	21478	AA	GG	1946978348
SNP_P4_144674_24873	NW_004516168.1	Scaffold787	24873	CC	TT	1946978350
SNP_P4_144675_24973	NW_004516168.1	Scaffold787	24973	TT	GG	1946978352
SNP_P4_144676_25074	NW_004516168.1	Scaffold787	25074	CC	AA	1946978354
SNP_P4_144677_25116	NW_004516168.1	Scaffold787	25116	GG	CC	1946978356
SNP_P4_144678_25627	NW_004516168.1	Scaffold787	25627	TT	CC	1946978358
SNP_P4_144679_27790	NW_004516168.1	Scaffold787	27790	TT	AA	1946978360
SNP_P4_144680_28839	NW_004516168.1	Scaffold787	28839	CC	AA	1946978362
SNP_P4_144682_31251	NW_004516168.1	Scaffold787	31251	TT	AA	1946978364
SNP_P4_144685_32906	NW_004516168.1	Scaffold787	32906	AA	TT	1946978366
SNP_P4_144686_34511	NW_004516168.1	Scaffold787	34511	GG	TT	1946978368
SNP_P4_144687_34808	NW_004516168.1	Scaffold787	34808	TT	CC	1946978370
SNP_P4_144688_35509	NW_004516168.1	Scaffold787	35509	TT	AA	1946978372
SNP_P4_144689_37147	NW_004516168.1	Scaffold787	37147	AA	GG	1946978374
SNP_P4_144690_41623	NW_004516168.1	Scaffold787	41623	GG	AA	1946978376
SNP_P4_144691_42378	NW_004516168.1	Scaffold787	42378	CC	GG	1946978378
SNP_P4_144692_49682	NW_004516168.1	Scaffold787	49682	CC	TT	1946978380
SNP_P4_144693_50101	NW_004516168.1	Scaffold787	50101	AA	CC	1946978382
SNP_P4_144694_50377	NW_004516168.1	Scaffold787	50377	CC	AA	1946978384
SNP_P4_144695_52635	NW_004516168.1	Scaffold787	52635	CC	AA	1946978386
SNP_P4_144696_54188	NW_004516168.1	Scaffold787	54188	TT	CC	1946978388
SNP_P4_144697_58684	NW_004516168.1	Scaffold787	58684	GG	AA	1946978390
SNP_P4_144698_58685	NW_004516168.1	Scaffold787	58685	GG	AA	1946978392
SNP_P4_144699_58689	NW_004516168.1	Scaffold787	58689	AA	TT	1946978394
SNP_P4_144700_58765	NW_004516168.1	Scaffold787	58765	CC	TT	1946978396
SNP_P4_144701_60908	NW_004516168.1	Scaffold787	60908	AA	TT	1946978398
SNP_P4_144702_63103	NW_004516168.1	Scaffold787	63103	AA	TT	1946978400
SNP_P4_144703_63698	NW_004516168.1	Scaffold787	63698	CC	TT	1946978402
SNP_P4_144704_63712	NW_004516168.1	Scaffold787	63712	CC	TT	1946978404
SNP_P4_144705_64009	NW_004516168.1	Scaffold787	64009	TT	AA	1946978406
SNP_P4_144706_64010	NW_004516168.1	Scaffold787	64010	CC	TT	1946978408
SNP_P4_144707_66354	NW_004516168.1	Scaffold787	66354	AA	CC	1946978410
SNP_P4_144708_66693	NW_004516168.1	Scaffold787	66693	TT	AA	1946978412
SNP_P4_144710_69847	NW_004516168.1	Scaffold787	69847	AA	TT	1946978414
SNP_P4_144711_70137	NW_004516168.1	Scaffold787	70137	CC	TT	1946978416

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_144713_70346	NW_004516168.1	Scaffold787	70346	TT	CC	1946978420
SNP_P4_144714_70373	NW_004516168.1	Scaffold787	70373	AA	GG	1946978422
SNP_P4_144715_73637	NW_004516168.1	Scaffold787	73637	TT	CC	1946978424
SNP_P4_144716_73938	NW_004516168.1	Scaffold787	73938	CC	TT	1946978427
SNP_P4_144717_73968	NW_004516168.1	Scaffold787	73968	TT	GG	1946978428
SNP_P4_144718_73989	NW_004516168.1	Scaffold787	73989	TT	CC	1946978430
SNP_P4_144719_74066	NW_004516168.1	Scaffold787	74066	CC	GG	1946978432
SNP_P4_144720_74083	NW_004516168.1	Scaffold787	74083	GG	AA	1946978434
SNP_P4_144721_74084	NW_004516168.1	Scaffold787	74084	TT	AA	1946978436
SNP_P4_144722_75180	NW_004516168.1	Scaffold787	75180	GG	TT	1946978438
SNP_P4_144723_75225	NW_004516168.1	Scaffold787	75225	CC	GG	1946978440
SNP_P4_144724_75920	NW_004516168.1	Scaffold787	75920	TT	AA	1946978442
SNP_P4_144726_75975	NW_004516168.1	Scaffold787	75975	CC	TT	1946978444
SNP_P4_144727_76959	NW_004516168.1	Scaffold787	76959	TT	GG	1946978446
SNP_P4_144728_77878	NW_004516168.1	Scaffold787	77878	AA	GG	1946978448
SNP_P4_144729_77888	NW_004516168.1	Scaffold787	77888	AA	CC	1946978450
SNP_P4_144730_77889	NW_004516168.1	Scaffold787	77889	AA	CC	1946978452
SNP_P4_144731_77892	NW_004516168.1	Scaffold787	77892	AA	TT	1946978454
SNP_P4_144732_77908	NW_004516168.1	Scaffold787	77908	CC	TT	1946978456
SNP_P4_144733_77913	NW_004516168.1	Scaffold787	77913	GG	CC	1946978458
SNP_P4_144734_78488	NW_004516168.1	Scaffold787	78488	CC	TT	1946978460
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SNP_P4_144736_78990	NW_004516168.1	Scaffold787	78990	AA	CC	1946978464
SNP_P4_144737_79176	NW_004516168.1	Scaffold787	79176	TT	AA	1946978466
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SNP_P4_144740_79207	NW_004516168.1	Scaffold787	79207	CC	TT	1946978472
SNP_P4_144741_79280	NW_004516168.1	Scaffold787	79280	TT	GG	1946978474
SNP_P4_144742_79281	NW_004516168.1	Scaffold787	79281	TT	GG	1946978476
SNP_P4_144743_79286	NW_004516168.1	Scaffold787	79286	AA	GG	1946978478
SNP_P4_144744_79306	NW_004516168.1	Scaffold787	79306	GG	CC	1946978480
SNP_P4_144745_79317	NW_004516168.1	Scaffold787	79317	GG	AA	1946978482
SNP_P4_144746_79322	NW_004516168.1	Scaffold787	79322	TT	CC	1946978484
SNP_P4_144747_79569	NW_004516168.1	Scaffold787	79569	CC	TT	1946978486
SNP_P4_144748_85235	NW_004516168.1	Scaffold787	85235	AA	CC	1946978488
SNP_P4_144749_85239	NW_004516168.1	Scaffold787	85239	CC	TT	1946978491
SNP_P4_144750_86024	NW_004516168.1	Scaffold787	86024	AA	TT	1946978493
SNP_P4_144751_87039	NW_004516168.1	Scaffold787	87039	AA	CC	1946978495
SNP_P4_144752_87069	NW_004516168.1	Scaffold787	87069	AA	GG	1946978497
SNP_P4_144753_87091	NW_004516168.1	Scaffold787	87091	CC	GG	1946978499
SNP_P4_144754_87100	NW_004516168.1	Scaffold787	87100	GG	AA	1946978501

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_144756_87263	NW_004516168.1	Scaffold787	87263	CC	AA	1946978505
SNP_P4_144757_89500	NW_004516168.1	Scaffold787	89500	TT	GG	1946978508
SNP_P4_144758_91729	NW_004516168.1	Scaffold787	91729	GG	AA	1946978510
SNP_P4_144759_91732	NW_004516168.1	Scaffold787	91732	AA	TT	1946978512
SNP_P4_144760_93206	NW_004516168.1	Scaffold787	93206	GG	TT	1946978514
SNP_P4_144761_93549	NW_004516168.1	Scaffold787	93549	TT	CC	1946978516
SNP_P4_144762_94603	NW_004516168.1	Scaffold787	94603	GG	AA	1946978518
SNP_P4_144763_96294	NW_004516168.1	Scaffold787	96294	AA	CC	1946978520
SNP_P4_144764_103673	NW_004516168.1	Scaffold787	103673	AA	TT	1946978522
SNP_P4_144765_103810	NW_004516168.1	Scaffold787	103810	AA	CC	1946978524
SNP_P4_144766_103853	NW_004516168.1	Scaffold787	103853	CC	TT	1946978526
SNP_P4_144767_104094	NW_004516168.1	Scaffold787	104094	CC	TT	1946978528
SNP_P4_144768_105172	NW_004516168.1	Scaffold787	105172	GG	AA	1946978530
SNP_P4_144769_105456	NW_004516168.1	Scaffold787	105456	AA	GG	1946978532
SNP_P4_144770_108729	NW_004516168.1	Scaffold787	108729	AA	TT	1946978534
SNP_P4_144771_110967	NW_004516168.1	Scaffold787	110967	TT	CC	1946978536
SNP_P4_144772_112413	NW_004516168.1	Scaffold787	112413	GG	AA	1946978538
SNP_P4_144773_112415	NW_004516168.1	Scaffold787	112415	CC	GG	1946978540
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SNP_P4_144775_117186	NW_004516168.1	Scaffold787	117186	TT	GG	1946978544
SNP_P4_144776_125825	NW_004516168.1	Scaffold787	125825	AA	GG	1946978546
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SNP_P4_144778_128487	NW_004516168.1	Scaffold787	128487	CC	TT	1946978550
SNP_P4_144779_128501	NW_004516168.1	Scaffold787	128501	TT	CC	1946978552
SNP_P4_144780_129109	NW_004516168.1	Scaffold787	129109	AA	GG	1946978554
SNP_P4_144781_129384	NW_004516168.1	Scaffold787	129384	CC	GG	1946978556
SNP_P4_144782_129550	NW_004516168.1	Scaffold787	129550	TT	CC	1946978558
SNP_P4_144784_131328	NW_004516168.1	Scaffold787	131328	CC	AA	1946978560
SNP_P4_144785_132011	NW_004516168.1	Scaffold787	132011	GG	AA	1946978562
SNP_P4_144786_134127	NW_004516168.1	Scaffold787	134127	TT	CC	1946978564
SNP_P4_144787_134314	NW_004516168.1	Scaffold787	134314	TT	AA	1946978566
SNP_P4_144790_140851	NW_004516168.1	Scaffold787	140851	GG	AA	1946978568
SNP_P4_144791_140942	NW_004516168.1	Scaffold787	140942	AA	GG	1946978570
SNP_P4_144792_141047	NW_004516168.1	Scaffold787	141047	CC	AA	1946978573
SNP_P4_144793_141856	NW_004516168.1	Scaffold787	141856	AA	TT	1946978575
SNP_P4_144794_143942	NW_004516168.1	Scaffold787	143942	AA	GG	1946978577
SNP_P4_144796_149581	NW_004516168.1	Scaffold787	149581	TT	GG	1946978579
SNP_P4_144797_149833	NW_004516168.1	Scaffold787	149833	GG	AA	1946978581
SNP_P4_144798_151892	NW_004516168.1	Scaffold787	151892	AA	GG	1946978583
SNP_P4_144799_154120	NW_004516168.1	Scaffold787	154120	CC	TT	1946978585
SNP_P4_144800_156215	NW_004516168.1	Scaffold787	156215	CC	TT	1946978587

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_144802_170246	NW_004516168.1	Scaffold787	170246	CC	AA	1946978591
SNP_P4_144803_170255	NW_004516168.1	Scaffold787	170255	CC	TT	1946978593
SNP_P4_144804_170276	NW_004516168.1	Scaffold787	170276	GG	AA	1946978595
SNP_P4_144805_237276	NW_004516168.1	Scaffold787	237276	CC	TT	1946978597
SNP_P4_144806_268553	NW_004516168.1	Scaffold787	268553	TT	AA	1946978599
SNP_P4_144807_268554	NW_004516168.1	Scaffold787	268554	GG	TT	1946978601
SNP_P4_144808_271103	NW_004516168.1	Scaffold787	271103	TT	CC	1946978603
SNP_P4_144809_271348	NW_004516168.1	Scaffold787	271348	TT	GG	1946978605
SNP_P4_144810_272151	NW_004516168.1	Scaffold787	272151	TT	CC	1946978607
SNP_P4_144811_273652	NW_004516168.1	Scaffold787	273652	AA	CC	1946978609
SNP_P4_144812_273673	NW_004516168.1	Scaffold787	273673	GG	AA	1946978611
SNP_P4_144814_274563	NW_004516168.1	Scaffold787	274563	TT	GG	1946978613
SNP_P4_144815_274564	NW_004516168.1	Scaffold787	274564	TT	AA	1946978615
SNP_P4_144816_278320	NW_004516168.1	Scaffold787	278320	GG	TT	1946978617
SNP_P4_144817_280175	NW_004516168.1	Scaffold787	280175	AA	GG	1946978619
SNP_P4_144818_280458	NW_004516168.1	Scaffold787	280458	GG	CC	1946978621
SNP_P4_144819_281210	NW_004516168.1	Scaffold787	281210	GG	AA	1946978622
SNP_P4_144820_281894	NW_004516168.1	Scaffold787	281894	TT	CC	1946978624
SNP_P4_144821_281945	NW_004516168.1	Scaffold787	281945	CC	TT	1946978626
SNP_P4_144822_281988	NW_004516168.1	Scaffold787	281988	GG	AA	1946978628
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SNP_P4_144824_287143	NW_004516168.1	Scaffold787	287143	AA	TT	1946978632
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SNP_P4_144830_290240	NW_004516168.1	Scaffold787	290240	GG	AA	1946978640
SNP_P4_144831_290421	NW_004516168.1	Scaffold787	290421	AA	GG	1946978642
SNP_P4_144832_290887	NW_004516168.1	Scaffold787	290887	AA	GG	1946978644
SNP_P4_144833_292158	NW_004516168.1	Scaffold787	292158	GG	AA	1946978646
SNP_P4_144834_300126	NW_004516168.1	Scaffold787	300126	TT	AA	1946978648
SNP_P4_144835_300141	NW_004516168.1	Scaffold787	300141	CC	GG	1946978650
SNP_P4_144838_308307	NW_004516168.1	Scaffold787	308307	CC	TT	1946978652
SNP_P4_144839_309184	NW_004516168.1	Scaffold787	309184	GG	AA	1946978654
SNP_P4_144840_309402	NW_004516168.1	Scaffold787	309402	CC	TT	1946978656
SNP_P4_144841_316433	NW_004516168.1	Scaffold787	316433	CC	AA	1946978658
SNP_P4_144842_316655	NW_004516168.1	Scaffold787	316655	CC	TT	1946978660
SNP_P4_144843_318667	NW_004516168.1	Scaffold787	318667	TT	GG	1946978662
SNP_P4_144844_319961	NW_004516168.1	Scaffold787	319961	TT	CC	1946978664
SNP_P4_144845_320007	NW_004516168.1	Scaffold787	320007	CC	TT	1946978666
SNP_P4_144846_331348	NW_004516168.1	Scaffold787	331348	TT	CC	1946978668
SNP_P4_144847_332047	NW_004516168.1	Scaffold787	332047	AA	TT	1946978670

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_144849_333420	NW_004516168.1	Scaffold787	333420	CC	AA	1946978674
SNP_P4_144850_334171	NW_004516168.1	Scaffold787	334171	GG	AA	1946978676
SNP_P4_144852_337269	NW_004516168.1	Scaffold787	337269	GG	TT	1946978678
SNP_P4_144853_342023	NW_004516168.1	Scaffold787	342023	GG	CC	1946978680
SNP_P4_144854_346340	NW_004516168.1	Scaffold787	346340	AA	GG	1946978682
SNP_P4_144856_348457	NW_004516168.1	Scaffold787	348457	TT	GG	1946978684
SNP_P4_144857_349614	NW_004516168.1	Scaffold787	349614	CC	TT	1946978686
SNP_P4_144858_349699	NW_004516168.1	Scaffold787	349699	GG	AA	1946978689
SNP_P4_144860_349873	NW_004516168.1	Scaffold787	349873	CC	TT	1946978691
SNP_P4_144863_353573	NW_004516168.1	Scaffold787	353573	CC	TT	1946978693
SNP_P4_144864_354180	NW_004516168.1	Scaffold787	354180	CC	TT	1946978695
SNP_P4_144865_355096	NW_004516168.1	Scaffold787	355096	GG	TT	1946978696
SNP_P4_144866_360453	NW_004516168.1	Scaffold787	360453	TT	CC	1946978699
SNP_P4_144867_363151	NW_004516168.1	Scaffold787	363151	AA	GG	1946978700
SNP_P4_144868_363152	NW_004516168.1	Scaffold787	363152	CC	AA	1946978702
SNP_P4_144869_365016	NW_004516168.1	Scaffold787	365016	TT	CC	1946978704
SNP_P4_144870_365142	NW_004516168.1	Scaffold787	365142	CC	TT	1946978706
SNP_P4_144872_366140	NW_004516168.1	Scaffold787	366140	AA	GG	1946978708
SNP_P4_144873_366338	NW_004516168.1	Scaffold787	366338	GG	AA	1946978710
SNP_P4_144874_367240	NW_004516168.1	Scaffold787	367240	TT	CC	1946978712
SNP_P4_144875_367510	NW_004516168.1	Scaffold787	367510	TT	GG	1946978714
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SNP_P4_144878_398123	NW_004516168.1	Scaffold787	398123	TT	GG	1946978720
SNP_P4_144879_405713	NW_004516168.1	Scaffold787	405713	TT	AA	1946978722
SNP_P4_144880_406021	NW_004516168.1	Scaffold787	406021	CC	TT	1946978724
SNP_P4_144881_409467	NW_004516168.1	Scaffold787	409467	CC	TT	1946978726
SNP_P4_144882_410087	NW_004516168.1	Scaffold787	410087	GG	AA	1946978728
SNP_P4_144883_417427	NW_004516168.1	Scaffold787	417427	AA	GG	1946978730
SNP_P4_144884_425413	NW_004516168.1	Scaffold787	425413	AA	TT	1946978732
SNP_P4_144885_434197	NW_004516168.1	Scaffold787	434197	TT	AA	1946978734
SNP_P4_144887_435346	NW_004516168.1	Scaffold787	435346	TT	CC	1946978736
SNP_P4_144888_449655	NW_004516168.1	Scaffold787	449655	TT	CC	1946978738
SNP_P4_144889_452409	NW_004516168.1	Scaffold787	452409	CC	TT	1946978740
SNP_P4_144890_454249	NW_004516168.1	Scaffold787	454249	AA	GG	1946978742
SNP_P4_144891_460119	NW_004516168.1	Scaffold787	460119	AA	GG	1946978744
SNP_P4_144892_460171	NW_004516168.1	Scaffold787	460171	GG	AA	1946978746
SNP_P4_144893_460233	NW_004516168.1	Scaffold787	460233	TT	GG	1946978748
SNP_P4_144894_460259	NW_004516168.1	Scaffold787	460259	TT	CC	1946978750
SNP_P4_144895_460367	NW_004516168.1	Scaffold787	460367	AA	TT	1946978752
SNP_P4_144897_460579	NW_004516168.1	Scaffold787	460579	TT	CC	1946978754

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_144899_460606	NW_004516168.1	Scaffold787	460606	GG	AA	1946978758
SNP_P4_144901_462525	NW_004516168.1	Scaffold787	462525	GG	AA	1946978761
SNP_P4_144902_462556	NW_004516168.1	Scaffold787	462556	AA	GG	1946978763
SNP_P4_144904_463282	NW_004516168.1	Scaffold787	463282	CC	TT	1946978765
SNP_P4_144905_463650	NW_004516168.1	Scaffold787	463650	CC	AA	1946978767
SNP_P4_144907_464800	NW_004516168.1	Scaffold787	464800	GG	AA	1946978769
SNP_P4_144908_465536	NW_004516168.1	Scaffold787	465536	GG	TT	1946978771
SNP_P4_144909_466051	NW_004516168.1	Scaffold787	466051	AA	GG	1946978773
SNP_P4_144910_466544	NW_004516168.1	Scaffold787	466544	AA	TT	1946978775
SNP_P4_144911_469367	NW_004516168.1	Scaffold787	469367	CC	AA	1946978777
SNP_P4_144912_469377	NW_004516168.1	Scaffold787	469377	AA	GG	1946978779
SNP_P4_144913_469378	NW_004516168.1	Scaffold787	469378	CC	TT	1946978781
SNP_P4_144915_469442	NW_004516168.1	Scaffold787	469442	CC	TT	1946978782
SNP_P4_144917_469586	NW_004516168.1	Scaffold787	469586	AA	GG	1946978785
SNP_P4_144918_469768	NW_004516168.1	Scaffold787	469768	GG	AA	1946978787
SNP_P4_144919_470220	NW_004516168.1	Scaffold787	470220	GG	AA	1946978788
SNP_P4_144920_470445	NW_004516168.1	Scaffold787	470445	TT	CC	1946978791
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SNP_P4_144922_470999	NW_004516168.1	Scaffold787	470999	GG	TT	1946978795
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SNP_P4_144925_2377	NW_004516169.1	Scaffold789	2377	AA	GG	1946978799
SNP_P4_144926_5544	NW_004516169.1	Scaffold789	5544	CC	GG	1946978801
SNP_P4_144927_8993	NW_004516169.1	Scaffold789	8993	GG	AA	1946978803
SNP_P4_144928_9014	NW_004516169.1	Scaffold789	9014	AA	GG	1946978805
SNP_P4_144929_9017	NW_004516169.1	Scaffold789	9017	TT	GG	1946978807
SNP_P4_144930_9019	NW_004516169.1	Scaffold789	9019	AA	GG	1946978810
SNP_P4_144931_13771	NW_004516169.1	Scaffold789	13771	TT	CC	1946978812
SNP_P4_144932_13833	NW_004516169.1	Scaffold789	13833	AA	GG	1946978814
SNP_P4_144933_13847	NW_004516169.1	Scaffold789	13847	GG	AA	1946978816
SNP_P4_144934_13954	NW_004516169.1	Scaffold789	13954	GG	AA	1946978818
SNP_P4_144935_14019	NW_004516169.1	Scaffold789	14019	AA	GG	1946978820
SNP_P4_144936_14064	NW_004516169.1	Scaffold789	14064	GG	AA	1946978822
SNP_P4_144937_14115	NW_004516169.1	Scaffold789	14115	AA	CC	1946978824
SNP_P4_144938_14248	NW_004516169.1	Scaffold789	14248	GG	AA	1946978826
SNP_P4_144939_14451	NW_004516169.1	Scaffold789	14451	TT	GG	1946978828
SNP_P4_144940_17522	NW_004516169.1	Scaffold789	17522	GG	AA	1946978830
SNP_P4_144941_17574	NW_004516169.1	Scaffold789	17574	AA	GG	1946978832
SNP_P4_144942_17599	NW_004516169.1	Scaffold789	17599	TT	CC	1946978834
SNP_P4_144943_17601	NW_004516169.1	Scaffold789	17601	TT	CC	1946978837
SNP_P4_144944_17652	NW_004516169.1	Scaffold789	17652	TT	GG	1946978839
SNP_P4_144945_17915	NW_004516169.1	Scaffold789	17915	TT	CC	1946978841

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_144948_26855	NW_004516169.1	Scaffold789	26855	TT	GG	1946978845
SNP_P4_144949_28580	NW_004516169.1	Scaffold789	28580	TT	GG	1946978847
SNP_P4_144950_41777	NW_004516169.1	Scaffold789	41777	GG	AA	1946978849
SNP_P4_144951_41780	NW_004516169.1	Scaffold789	41780	TT	CC	1946978851
SNP_P4_144952_41782	NW_004516169.1	Scaffold789	41782	TT	GG	1946978853
SNP_P4_144953_41794	NW_004516169.1	Scaffold789	41794	TT	CC	1946978855
SNP_P4_144954_41807	NW_004516169.1	Scaffold789	41807	AA	GG	1946978857
SNP_P4_144955_63528	NW_004516169.1	Scaffold789	63528	TT	AA	1946978859
SNP_P4_144956_96	NW_004516170.1	Scaffold793	96	AA	CC	1946978861
SNP_P4_144957_35894	NW_004516170.1	Scaffold793	35894	CC	TT	1946978863
SNP_P4_144958_38998	NW_004516170.1	Scaffold793	38998	TT	AA	1946978865
SNP_P4_144959_39055	NW_004516170.1	Scaffold793	39055	CC	AA	1946978867
SNP_P4_144960_39105	NW_004516170.1	Scaffold793	39105	TT	AA	1946978869
SNP_P4_144961_39145	NW_004516170.1	Scaffold793	39145	CC	TT	1946978871
SNP_P4_144962_39298	NW_004516170.1	Scaffold793	39298	AA	GG	1946978873
SNP_P4_144963_39305	NW_004516170.1	Scaffold793	39305	CC	TT	1946978875
SNP_P4_144964_39379	NW_004516170.1	Scaffold793	39379	TT	CC	1946978877
SNP_P4_144965_57056	NW_004516170.1	Scaffold793	57056	CC	TT	1946978879
SNP_P4_144966_78972	NW_004516170.1	Scaffold793	78972	TT	GG	1946978881
SNP_P4_144967_79493	NW_004516170.1	Scaffold793	79493	TT	CC	1946978883
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SNP_P4_144969_87597	NW_004516170.1	Scaffold793	87597	AA	GG	1946978887
SNP_P4_144970_88215	NW_004516170.1	Scaffold793	88215	GG	AA	1946978889
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SNP_P4_144973_108277	NW_004516170.1	Scaffold793	108277	AA	TT	1946978893
SNP_P4_144974_108285	NW_004516170.1	Scaffold793	108285	GG	AA	1946978895
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SNP_P4_144976_108447	NW_004516170.1	Scaffold793	108447	CC	TT	1946978899
SNP_P4_144977_116541	NW_004516170.1	Scaffold793	116541	CC	TT	1946978901
SNP_P4_144978_117931	NW_004516170.1	Scaffold793	117931	TT	GG	1946978904
SNP_P4_144979_117932	NW_004516170.1	Scaffold793	117932	TT	AA	1946978906
SNP_P4_144980_117933	NW_004516170.1	Scaffold793	117933	TT	GG	1946978908
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SNP_P4_144982_126641	NW_004516170.1	Scaffold793	126641	AA	GG	1946978911
SNP_P4_144984_126937	NW_004516170.1	Scaffold793	126937	GG	CC	1946978913
SNP_P4_144985_127209	NW_004516170.1	Scaffold793	127209	GG	CC	1946978916
SNP_P4_144986_127461	NW_004516170.1	Scaffold793	127461	TT	AA	1946978918
SNP_P4_144987_127479	NW_004516170.1	Scaffold793	127479	CC	TT	1946978920
SNP_P4_144988_127559	NW_004516170.1	Scaffold793	127559	CC	TT	1946978922
SNP_P4_144989_128331	NW_004516170.1	Scaffold793	128331	AA	GG	1946978924
SNP_P4_144990_128386	NW_004516170.1	Scaffold793	128386	TT	CC	1946978926

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_144992_129362	NW_004516170.1	Scaffold793	129362	CC	GG	1946978930
SNP_P4_144993_130232	NW_004516170.1	Scaffold793	130232	TT	CC	1946978932
SNP_P4_144994_130248	NW_004516170.1	Scaffold793	130248	CC	GG	1946978934
SNP_P4_144995_139017	NW_004516170.1	Scaffold793	139017	CC	TT	1946978936
SNP_P4_144997_158258	NW_004516170.1	Scaffold793	158258	AA	GG	1946978938
SNP_P4_144998_158259	NW_004516170.1	Scaffold793	158259	TT	AA	1946978940
SNP_P4_144999_178633	NW_004516170.1	Scaffold793	178633	TT	CC	1946978942
SNP_P4_145000_192583	NW_004516170.1	Scaffold793	192583	GG	AA	1946978944
SNP_P4_145001_192634	NW_004516170.1	Scaffold793	192634	CC	TT	1946978946
SNP_P4_145002_192820	NW_004516170.1	Scaffold793	192820	GG	AA	1946978948
SNP_P4_145003_193158	NW_004516170.1	Scaffold793	193158	TT	CC	1946978950
SNP_P4_145004_194270	NW_004516170.1	Scaffold793	194270	CC	TT	1946978952
SNP_P4_145005_194271	NW_004516170.1	Scaffold793	194271	AA	CC	1946978954
SNP_P4_145006_194289	NW_004516170.1	Scaffold793	194289	TT	CC	1946978956
SNP_P4_145007_194294	NW_004516170.1	Scaffold793	194294	AA	TT	1946978958
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SNP_P4_145009_194355	NW_004516170.1	Scaffold793	194355	CC	TT	1946978962
SNP_P4_145010_194362	NW_004516170.1	Scaffold793	194362	AA	GG	1946978964
SNP_P4_145011_199906	NW_004516170.1	Scaffold793	199906	TT	GG	1946978966
SNP_P4_145013_208126	NW_004516170.1	Scaffold793	208126	AA	GG	1946978968
SNP_P4_145014_208419	NW_004516170.1	Scaffold793	208419	AA	GG	1946978971
SNP_P4_145015_210559	NW_004516170.1	Scaffold793	210559	CC	TT	1946978973
SNP_P4_145016_215211	NW_004516170.1	Scaffold793	215211	CC	TT	1946978975
SNP_P4_145017_248509	NW_004516170.1	Scaffold793	248509	CC	GG	1946978977
SNP_P4_145018_254818	NW_004516170.1	Scaffold793	254818	AA	GG	1946978979
SNP_P4_145019_30214	NW_004516171.1	Scaffold794	30214	AA	GG	1946978981
SNP_P4_145021_59960	NW_004516171.1	Scaffold794	59960	AA	GG	1946978983
SNP_P4_145023_79780	NW_004516171.1	Scaffold794	79780	CC	TT	1946978985
SNP_P4_145024_79823	NW_004516171.1	Scaffold794	79823	GG	CC	1946978987
SNP_P4_145025_79825	NW_004516171.1	Scaffold794	79825	AA	TT	1946978989
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SNP_P4_145030_114324	NW_004516171.1	Scaffold794	114324	GG	AA	1946979000
SNP_P4_145031_137243	NW_004516171.1	Scaffold794	137243	AA	CC	1946979002
SNP_P4_145032_137276	NW_004516171.1	Scaffold794	137276	AA	GG	1946979004
SNP_P4_145033_137917	NW_004516171.1	Scaffold794	137917	CC	TT	1946979006
SNP_P4_145034_137943	NW_004516171.1	Scaffold794	137943	TT	CC	1946979008
SNP_P4_145035_138064	NW_004516171.1	Scaffold794	138064	GG	CC	1946979010
SNP_P4_145036_138126	NW_004516171.1	Scaffold794	138126	GG	AA	1946979012

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_145039_138195	NW_004516171.1	Scaffold794	138195	TT	CC	1946979016
SNP_P4_145040_138281	NW_004516171.1	Scaffold794	138281	TT	CC	1946979018
SNP_P4_145041_138338	NW_004516171.1	Scaffold794	138338	TT	CC	1946979020
SNP_P4_145042_138367	NW_004516171.1	Scaffold794	138367	GG	AA	1946979022
SNP_P4_145043_138370	NW_004516171.1	Scaffold794	138370	GG	AA	1946979025
SNP_P4_145044_138502	NW_004516171.1	Scaffold794	138502	TT	GG	1946979027
SNP_P4_145045_138532	NW_004516171.1	Scaffold794	138532	CC	TT	1946979029
SNP_P4_145046_138548	NW_004516171.1	Scaffold794	138548	CC	TT	1946979031
SNP_P4_145047_138562	NW_004516171.1	Scaffold794	138562	TT	CC	1946979033
SNP_P4_145048_138587	NW_004516171.1	Scaffold794	138587	GG	TT	1946979035
SNP_P4_145049_138611	NW_004516171.1	Scaffold794	138611	AA	TT	1946979037
SNP_P4_145050_138626	NW_004516171.1	Scaffold794	138626	CC	TT	1946979039
SNP_P4_145052_161436	NW_004516171.1	Scaffold794	161436	CC	TT	1946979041
SNP_P4_145053_168913	NW_004516171.1	Scaffold794	168913	GG	AA	1946979043
SNP_P4_145054_168960	NW_004516171.1	Scaffold794	168960	AA	GG	1946979045
SNP_P4_145055_168977	NW_004516171.1	Scaffold794	168977	CC	TT	1946979047
SNP_P4_145056_169062	NW_004516171.1	Scaffold794	169062	TT	AA	1946979049
SNP_P4_145057_169354	NW_004516171.1	Scaffold794	169354	AA	CC	1946979051
SNP_P4_145058_169376	NW_004516171.1	Scaffold794	169376	AA	CC	1946979053
SNP_P4_145059_169415	NW_004516171.1	Scaffold794	169415	GG	TT	1946979055
SNP_P4_145060_194866	NW_004516171.1	Scaffold794	194866	CC	TT	1946979057
SNP_P4_145061_194868	NW_004516171.1	Scaffold794	194868	TT	GG	1946979060
SNP_P4_145062_194916	NW_004516171.1	Scaffold794	194916	AA	TT	1946979062
SNP_P4_145063_195005	NW_004516171.1	Scaffold794	195005	GG	CC	1946979064
SNP_P4_145064_195032	NW_004516171.1	Scaffold794	195032	GG	CC	1946979066
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SNP_P4_145068_243067	NW_004516171.1	Scaffold794	243067	AA	GG	1946979074
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SNP_P4_145071_243417	NW_004516171.1	Scaffold794	243417	GG	TT	1946979079
SNP_P4_145072_243514	NW_004516171.1	Scaffold794	243514	TT	GG	1946979081
SNP_P4_145073_243679	NW_004516171.1	Scaffold794	243679	GG	CC	1946979083
SNP_P4_145074_243686	NW_004516171.1	Scaffold794	243686	TT	CC	1946979085
SNP_P4_145075_243809	NW_004516171.1	Scaffold794	243809	TT	CC	1946979087
SNP_P4_145076_243810	NW_004516171.1	Scaffold794	243810	AA	TT	1946979089
SNP_P4_145077_243814	NW_004516171.1	Scaffold794	243814	AA	GG	1946979091
SNP_P4_145078_244414	NW_004516171.1	Scaffold794	244414	CC	TT	1946979093
SNP_P4_145079_245451	NW_004516171.1	Scaffold794	245451	TT	AA	1946979095
SNP_P4_145080_245539	NW_004516171.1	Scaffold794	245539	TT	GG	1946979097

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_145082_245686	NW_004516171.1	Scaffold794	245686	AA	GG	1946979102
SNP_P4_145083_245696	NW_004516171.1	Scaffold794	245696	TT	CC	1946979104
SNP_P4_145084_245698	NW_004516171.1	Scaffold794	245698	CC	AA	1946979106
SNP_P4_145085_245902	NW_004516171.1	Scaffold794	245902	GG	AA	1946979108
SNP_P4_145086_245989	NW_004516171.1	Scaffold794	245989	AA	TT	1946979110
SNP_P4_145087_246022	NW_004516171.1	Scaffold794	246022	CC	TT	1946979112
SNP_P4_145088_258920	NW_004516171.1	Scaffold794	258920	CC	TT	1946979114
SNP_P4_145089_258973	NW_004516171.1	Scaffold794	258973	AA	GG	1946979116
SNP_P4_145090_259220	NW_004516171.1	Scaffold794	259220	TT	AA	1946979118
SNP_P4_145091_259346	NW_004516171.1	Scaffold794	259346	TT	CC	1946979120
SNP_P4_145092_259352	NW_004516171.1	Scaffold794	259352	AA	GG	1946979122
SNP_P4_145093_7536	NW_004516173.1	Scaffold796	7536	TT	CC	1946979124
SNP_P4_145094_7697	NW_004516173.1	Scaffold796	7697	TT	CC	1946979126
SNP_P4_145095_11471	NW_004516173.1	Scaffold796	11471	CC	TT	1946979128
SNP_P4_145097_16076	NW_004516173.1	Scaffold796	16076	AA	TT	1946979130
SNP_P4_145098_17749	NW_004516173.1	Scaffold796	17749	AA	TT	1946979132
SNP_P4_145099_18116	NW_004516173.1	Scaffold796	18116	TT	GG	1946979133
SNP_P4_145100_20781	NW_004516173.1	Scaffold796	20781	CC	GG	1946979135
SNP_P4_145101_22144	NW_004516173.1	Scaffold796	22144	GG	CC	1946979137
SNP_P4_145102_24571	NW_004516173.1	Scaffold796	24571	CC	GG	1946979139
SNP_P4_145104_28038	NW_004516173.1	Scaffold796	28038	AA	GG	1946979141
SNP_P4_145105_32576	NW_004516173.1	Scaffold796	32576	GG	CC	1946979143
SNP_P4_145106_33025	NW_004516173.1	Scaffold796	33025	TT	AA	1946979145
SNP_P4_145107_35714	NW_004516173.1	Scaffold796	35714	AA	GG	1946979147
SNP_P4_145108_14925	NW_004516174.1	Scaffold797	14925	GG	AA	1946979149
SNP_P4_145110_53212	NW_004516174.1	Scaffold797	53212	TT	CC	1946979151
SNP_P4_145111_53260	NW_004516174.1	Scaffold797	53260	AA	GG	1946979153
SNP_P4_145112_53424	NW_004516174.1	Scaffold797	53424	GG	AA	1946979155
SNP_P4_145113_53626	NW_004516174.1	Scaffold797	53626	CC	AA	1946979157
SNP_P4_145114_53639	NW_004516174.1	Scaffold797	53639	CC	AA	1946979159
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SNP_P4_145116_53717	NW_004516174.1	Scaffold797	53717	GG	CC	1946979163
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SNP_P4_145118_53892	NW_004516174.1	Scaffold797	53892	CC	AA	1946979167
SNP_P4_145119_53904	NW_004516174.1	Scaffold797	53904	GG	CC	1946979169
SNP_P4_145120_53911	NW_004516174.1	Scaffold797	53911	TT	GG	1946979171
SNP_P4_145121_54008	NW_004516174.1	Scaffold797	54008	AA	GG	1946979173
SNP_P4_145122_54019	NW_004516174.1	Scaffold797	54019	AA	TT	1946979175
SNP_P4_145123_54043	NW_004516174.1	Scaffold797	54043	CC	AA	1946979177
SNP_P4_145124_58204	NW_004516174.1	Scaffold797	58204	TT	CC	1946979179
SNP_P4_145125_59940	NW_004516174.1	Scaffold797	59940	TT	CC	1946979181

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_145129_16568	NW_004516175.1	Scaffold798	16568	TT	GG	1946979185
SNP_P4_145131_17310	NW_004516175.1	Scaffold798	17310	TT	CC	1946979187
SNP_P4_145132_29525	NW_004516175.1	Scaffold798	29525	CC	TT	1946979189
SNP_P4_145133_31986	NW_004516175.1	Scaffold798	31986	AA	TT	1946979191
SNP_P4_145134_32223	NW_004516175.1	Scaffold798	32223	GG	AA	1946979193
SNP_P4_145135_32244	NW_004516175.1	Scaffold798	32244	TT	CC	1946979195
SNP_P4_145136_34876	NW_004516175.1	Scaffold798	34876	TT	AA	1946979197
SNP_P4_145137_42044	NW_004516175.1	Scaffold798	42044	CC	GG	1946979198
SNP_P4_145138_53148	NW_004516175.1	Scaffold798	53148	AA	GG	1946979200
SNP_P4_145139_53155	NW_004516175.1	Scaffold798	53155	GG	AA	1946979202
SNP_P4_145140_53167	NW_004516175.1	Scaffold798	53167	GG	AA	1946979204
SNP_P4_145141_53169	NW_004516175.1	Scaffold798	53169	AA	GG	1946979206
SNP_P4_145142_54154	NW_004516175.1	Scaffold798	54154	TT	AA	1946979208
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SNP_P4_145144_54245	NW_004516175.1	Scaffold798	54245	TT	GG	1946979212
SNP_P4_145145_54260	NW_004516175.1	Scaffold798	54260	TT	AA	1946979214
SNP_P4_145146_60561	NW_004516175.1	Scaffold798	60561	TT	AA	1946979216
SNP_P4_145147_60721	NW_004516175.1	Scaffold798	60721	TT	CC	1946979218
SNP_P4_145148_60785	NW_004516175.1	Scaffold798	60785	CC	AA	1946979220
SNP_P4_145149_64015	NW_004516175.1	Scaffold798	64015	AA	CC	1946979222
SNP_P4_145150_64021	NW_004516175.1	Scaffold798	64021	TT	AA	1946979224
SNP_P4_145151_12244	NW_004516176.1	Scaffold799	12244	CC	AA	1946979226
SNP_P4_145152_12312	NW_004516176.1	Scaffold799	12312	TT	CC	1946979228
SNP_P4_145153_12565	NW_004516176.1	Scaffold799	12565	AA	GG	1946979230
SNP_P4_145157_6380	NW_004516178.1	Scaffold801	6380	TT	CC	1946979232
SNP_P4_145158_7019	NW_004516178.1	Scaffold801	7019	CC	AA	1946979234
SNP_P4_145159_8809	NW_004516178.1	Scaffold801	8809	TT	CC	1946979236
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SNP_P4_145162_11105	NW_004516178.1	Scaffold801	11105	CC	GG	1946979241
SNP_P4_145164_11479	NW_004516178.1	Scaffold801	11479	TT	CC	1946979243
SNP_P4_145165_13169	NW_004516178.1	Scaffold801	13169	CC	TT	1946979245
SNP_P4_145167_21074	NW_004516178.1	Scaffold801	21074	CC	TT	1946979248
SNP_P4_145168_22720	NW_004516178.1	Scaffold801	22720	TT	CC	1946979250
SNP_P4_145169_23846	NW_004516178.1	Scaffold801	23846	CC	TT	1946979252
SNP_P4_145170_24468	NW_004516178.1	Scaffold801	24468	AA	CC	1946979253
SNP_P4_145171_24823	NW_004516178.1	Scaffold801	24823	CC	AA	1946979256
SNP_P4_145173_33686	NW_004516178.1	Scaffold801	33686	GG	TT	1946979258
SNP_P4_145174_38182	NW_004516178.1	Scaffold801	38182	AA	CC	1946979260
SNP_P4_145175_38195	NW_004516178.1	Scaffold801	38195	AA	GG	1946979262
SNP_P4_145176_38203	NW_004516178.1	Scaffold801	38203	CC	AA	1946979264

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_145178_38208	NW_004516178.1	Scaffold801	38208	GG	AA	1946979268
SNP_P4_145179_38212	NW_004516178.1	Scaffold801	38212	CC	TT	1946979270
SNP_P4_145180_38221	NW_004516178.1	Scaffold801	38221	AA	GG	1946979272
SNP_P4_145181_38224	NW_004516178.1	Scaffold801	38224	CC	TT	1946979274
SNP_P4_145182_38235	NW_004516178.1	Scaffold801	38235	TT	GG	1946979276
SNP_P4_145183_38260	NW_004516178.1	Scaffold801	38260	CC	AA	1946979279
SNP_P4_145184_38290	NW_004516178.1	Scaffold801	38290	AA	CC	1946979281
SNP_P4_145185_38326	NW_004516178.1	Scaffold801	38326	CC	AA	1946979282
SNP_P4_145186_38327	NW_004516178.1	Scaffold801	38327	AA	TT	1946979284
SNP_P4_145187_38350	NW_004516178.1	Scaffold801	38350	AA	GG	1946979286
SNP_P4_145188_38359	NW_004516178.1	Scaffold801	38359	TT	CC	1946979288
SNP_P4_145189_38375	NW_004516178.1	Scaffold801	38375	CC	TT	1946979291
SNP_P4_145190_40664	NW_004516178.1	Scaffold801	40664	TT	CC	1946979293
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SNP_P4_145195_48071	NW_004516178.1	Scaffold801	48071	TT	CC	1946979301
SNP_P4_145196_48157	NW_004516178.1	Scaffold801	48157	AA	GG	1946979302
SNP_P4_145198_56461	NW_004516178.1	Scaffold801	56461	TT	CC	1946979304
SNP_P4_145199_65333	NW_004516178.1	Scaffold801	65333	AA	CC	1946979306
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SNP_P4_145206_91759	NW_004516178.1	Scaffold801	91759	TT	GG	1946979312
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SNP_P4_145210_95671	NW_004516178.1	Scaffold801	95671	CC	TT	1946979320
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SNP_P4_145212_96046	NW_004516178.1	Scaffold801	96046	TT	CC	1946979324
SNP_P4_145213_96314	NW_004516178.1	Scaffold801	96314	TT	CC	1946979326
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SNP_P4_145216_96468	NW_004516178.1	Scaffold801	96468	CC	GG	1946979333
SNP_P4_145217_96477	NW_004516178.1	Scaffold801	96477	TT	CC	1946979335
SNP_P4_145218_96866	NW_004516178.1	Scaffold801	96866	TT	CC	1946979337
SNP_P4_145219_96885	NW_004516178.1	Scaffold801	96885	TT	CC	1946979339
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SNP_P4_145221_96968	NW_004516178.1	Scaffold801	96968	AA	GG	1946979343
SNP_P4_145222_97019	NW_004516178.1	Scaffold801	97019	CC	TT	1946979345
SNP_P4_145223_97116	NW_004516178.1	Scaffold801	97116	TT	CC	1946979348
SNP_P4_145224_111760	NW_004516178.1	Scaffold801	111760	CC	TT	1946979350

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_145226_112618	NW_004516178.1	Scaffold801	112618	GG	AA	1946979354
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SNP_P4_145229_122343	NW_004516178.1	Scaffold801	122343	AA	GG	1946979360
SNP_P4_145230_122466	NW_004516178.1	Scaffold801	122466	GG	TT	1946979362
SNP_P4_145231_124319	NW_004516178.1	Scaffold801	124319	CC	TT	1946979364
SNP_P4_145233_124923	NW_004516178.1	Scaffold801	124923	AA	CC	1946979366
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SNP_P4_145237_142522	NW_004516178.1	Scaffold801	142522	AA	TT	1946979372
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SNP_P4_145251_161837	NW_004516178.1	Scaffold801	161837	TT	CC	1946979392
SNP_P4_145252_163940	NW_004516178.1	Scaffold801	163940	GG	CC	1946979394
SNP_P4_145253_165617	NW_004516178.1	Scaffold801	165617	TT	CC	1946979396
SNP_P4_145255_175139	NW_004516178.1	Scaffold801	175139	TT	GG	1946979398
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SNP_P4_145258_188064	NW_004516178.1	Scaffold801	188064	CC	TT	1946979404
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SNP_P4_145260_192081	NW_004516178.1	Scaffold801	192081	GG	AA	1946979408
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SNP_P4_145276_260855	NW_004516178.1	Scaffold801	260855	CC	AA	1946979429
SNP_P4_145279_920	NW_004516179.1	Scaffold802	920	TT	GG	1946979431
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_145282_1361	NW_004516179.1	Scaffold802	1361	AA	GG	1946979437
SNP_P4_145283_1369	NW_004516179.1	Scaffold802	1369	TT	CC	1946979439
SNP_P4_145284_1373	NW_004516179.1	Scaffold802	1373	AA	TT	1946979441
SNP_P4_145285_1401	NW_004516179.1	Scaffold802	1401	AA	GG	1946979443
SNP_P4_145286_1425	NW_004516179.1	Scaffold802	1425	AA	GG	1946979445
SNP_P4_145287_4675	NW_004516179.1	Scaffold802	4675	AA	TT	1946979447
SNP_P4_145288_8221	NW_004516179.1	Scaffold802	8221	TT	GG	1946979449
SNP_P4_145289_29559	NW_004516179.1	Scaffold802	29559	GG	AA	1946979451
SNP_P4_145291_30731	NW_004516179.1	Scaffold802	30731	TT	AA	1946979453
SNP_P4_145292_30734	NW_004516179.1	Scaffold802	30734	AA	GG	1946979455
SNP_P4_145293_32309	NW_004516179.1	Scaffold802	32309	TT	CC	1946979457
SNP_P4_145294_32335	NW_004516179.1	Scaffold802	32335	TT	AA	1946979459
SNP_P4_145295_2248	NW_004516180.1	Scaffold803	2248	AA	GG	1946979461
SNP_P4_145296_2448	NW_004516180.1	Scaffold803	2448	CC	TT	1946979462
SNP_P4_145297_22506	NW_004516180.1	Scaffold803	22506	TT	AA	1946979464
SNP_P4_145298_22523	NW_004516180.1	Scaffold803	22523	TT	CC	1946979466
SNP_P4_145299_39215	NW_004516180.1	Scaffold803	39215	CC	TT	1946979468
SNP_P4_145300_47696	NW_004516180.1	Scaffold803	47696	AA	CC	1946979470
SNP_P4_145301_48029	NW_004516180.1	Scaffold803	48029	AA	GG	1946979472
SNP_P4_145302_52332	NW_004516180.1	Scaffold803	52332	AA	GG	1946979474
SNP_P4_145303_62659	NW_004516180.1	Scaffold803	62659	CC	TT	1946979476
SNP_P4_145304_212	NW_004516181.1	Scaffold806	212	TT	CC	1946979478
SNP_P4_145305_705	NW_004516181.1	Scaffold806	705	AA	GG	1946979480
SNP_P4_145306_1004	NW_004516181.1	Scaffold806	1004	CC	TT	1946979482
SNP_P4_145307_1014	NW_004516181.1	Scaffold806	1014	TT	CC	1946979484
SNP_P4_145308_1029	NW_004516181.1	Scaffold806	1029	CC	AA	1946979486
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SNP_P4_145310_2228	NW_004516181.1	Scaffold806	2228	GG	AA	1946979490
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SNP_P4_145312_14735	NW_004516181.1	Scaffold806	14735	GG	CC	1946979494
SNP_P4_145313_21400	NW_004516181.1	Scaffold806	21400	AA	GG	1946979496
SNP_P4_145314_28245	NW_004516181.1	Scaffold806	28245	GG	AA	1946979498
SNP_P4_145315_28276	NW_004516181.1	Scaffold806	28276	TT	AA	1946979500
SNP_P4_145316_36957	NW_004516181.1	Scaffold806	36957	TT	CC	1946979502
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SNP_P4_145321_49382	NW_004516181.1	Scaffold806	49382	CC	TT	1946979512
SNP_P4_145322_49543	NW_004516181.1	Scaffold806	49543	TT	CC	1946979514
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_145325_52154	NW_004516181.1	Scaffold806	52154	TT	CC	1946979519
SNP_P4_145326_53036	NW_004516181.1	Scaffold806	53036	AA	TT	1946979520
SNP_P4_145327_53997	NW_004516181.1	Scaffold806	53997	GG	AA	1946979522
SNP_P4_145328_54123	NW_004516181.1	Scaffold806	54123	CC	TT	1946979524
SNP_P4_145329_57819	NW_004516181.1	Scaffold806	57819	GG	CC	1946979526
SNP_P4_145331_81716	NW_004516181.1	Scaffold806	81716	AA	CC	1946979528
SNP_P4_145332_81718	NW_004516181.1	Scaffold806	81718	CC	TT	1946979530
SNP_P4_145333_81790	NW_004516181.1	Scaffold806	81790	TT	CC	1946979532
SNP_P4_145334_81815	NW_004516181.1	Scaffold806	81815	TT	CC	1946979534
SNP_P4_145335_81968	NW_004516181.1	Scaffold806	81968	TT	CC	1946979536
SNP_P4_145336_81974	NW_004516181.1	Scaffold806	81974	CC	AA	1946979538
SNP_P4_145337_82111	NW_004516181.1	Scaffold806	82111	CC	TT	1946979540
SNP_P4_145338_82121	NW_004516181.1	Scaffold806	82121	TT	GG	1946979542
SNP_P4_145339_82127	NW_004516181.1	Scaffold806	82127	TT	CC	1946979544
SNP_P4_145340_82134	NW_004516181.1	Scaffold806	82134	GG	AA	1946979546
SNP_P4_145341_83374	NW_004516181.1	Scaffold806	83374	CC	TT	1946979548
SNP_P4_145342_84272	NW_004516181.1	Scaffold806	84272	GG	AA	1946979550
SNP_P4_145343_84936	NW_004516181.1	Scaffold806	84936	TT	AA	1946979553
SNP_P4_145344_84942	NW_004516181.1	Scaffold806	84942	AA	GG	1946979555
SNP_P4_145345_95286	NW_004516181.1	Scaffold806	95286	GG	CC	1946979557
SNP_P4_145346_95455	NW_004516181.1	Scaffold806	95455	CC	AA	1946979558
SNP_P4_145347_95470	NW_004516181.1	Scaffold806	95470	AA	GG	1946979560
SNP_P4_145348_95899	NW_004516181.1	Scaffold806	95899	AA	CC	1946979562
SNP_P4_145349_107556	NW_004516181.1	Scaffold806	107556	TT	GG	1946979564
SNP_P4_145350_130996	NW_004516181.1	Scaffold806	130996	GG	AA	1946979566
SNP_P4_145351_131457	NW_004516181.1	Scaffold806	131457	TT	CC	1946979568
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SNP_P4_145356_131583	NW_004516181.1	Scaffold806	131583	TT	GG	1946979579
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SNP_P4_145362_131971	NW_004516181.1	Scaffold806	131971	TT	CC	1946979591
SNP_P4_145363_133312	NW_004516181.1	Scaffold806	133312	TT	GG	1946979593
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SNP_P4_145365_133344	NW_004516181.1	Scaffold806	133344	TT	CC	1946979597
SNP_P4_145366_133353	NW_004516181.1	Scaffold806	133353	TT	CC	1946979599

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_145369_133547	NW_004516181.1	Scaffold806	133547	CC	TT	1946979605
SNP_P4_145370_133624	NW_004516181.1	Scaffold806	133624	GG	AA	1946979607
SNP_P4_145371_133628	NW_004516181.1	Scaffold806	133628	AA	GG	1946979609
SNP_P4_145372_133641	NW_004516181.1	Scaffold806	133641	TT	AA	1946979611
SNP_P4_145373_133791	NW_004516181.1	Scaffold806	133791	GG	AA	1946979613
SNP_P4_145374_3331	NW_004516182.1	Scaffold808	3331	TT	AA	1946979615
SNP_P4_145375_3407	NW_004516182.1	Scaffold808	3407	GG	AA	1946979617
SNP_P4_145376_3497	NW_004516182.1	Scaffold808	3497	AA	TT	1946979619
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SNP_P4_145379_4559	NW_004516182.1	Scaffold808	4559	GG	AA	1946979623
SNP_P4_145380_4887	NW_004516182.1	Scaffold808	4887	AA	GG	1946979625
SNP_P4_145381_5085	NW_004516182.1	Scaffold808	5085	GG	AA	1946979627
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SNP_P4_145390_89377	NW_004516183.1	Scaffold809	89377	TT	CC	1946979643
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SNP_P4_145393_100100	NW_004516183.1	Scaffold809	100100	CC	AA	1946979647
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SNP_P4_145412_107539	NW_004516184.1	Scaffold811	107539	CC	AA	1946979684

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_145417_112356	NW_004516184.1	Scaffold811	112356	GG	AA	1946979694
SNP_P4_145418_112359	NW_004516184.1	Scaffold811	112359	GG	AA	1946979697
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SNP_P4_145455_279185	NW_004516184.1	Scaffold811	279185	GG	TT	1946979765
SNP_P4_145456_279431	NW_004516184.1	Scaffold811	279431	TT	CC	1946979767
SNP_P4_145457_286430	NW_004516184.1	Scaffold811	286430	GG	TT	1946979769

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_145458_287801	NW_004516184.1	Scaffold811	287801	TT	CC	1946979771
SNP_P4_145459_287903	NW_004516184.1	Scaffold811	287903	CC	AA	1946979773
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SNP_P4_145463_299234	NW_004516184.1	Scaffold811	299234	CC	TT	1946979779
SNP_P4_145464_302161	NW_004516184.1	Scaffold811	302161	TT	GG	1946979781
SNP_P4_145465_303572	NW_004516184.1	Scaffold811	303572	GG	TT	1946979783
SNP_P4_145466_306779	NW_004516184.1	Scaffold811	306779	TT	CC	1946979785
SNP_P4_145467_306788	NW_004516184.1	Scaffold811	306788	CC	AA	1946979787
SNP_P4_145468_306801	NW_004516184.1	Scaffold811	306801	CC	TT	1946979789
SNP_P4_145469_306803	NW_004516184.1	Scaffold811	306803	AA	GG	1946979791
SNP_P4_145470_306942	NW_004516184.1	Scaffold811	306942	TT	CC	1946979793
SNP_P4_145471_307177	NW_004516184.1	Scaffold811	307177	GG	TT	1946979795
SNP_P4_145472_307230	NW_004516184.1	Scaffold811	307230	TT	CC	1946979797
SNP_P4_145473_307254	NW_004516184.1	Scaffold811	307254	TT	GG	1946979799
SNP_P4_145474_308067	NW_004516184.1	Scaffold811	308067	CC	TT	1946979801
SNP_P4_145475_316924	NW_004516184.1	Scaffold811	316924	TT	CC	1946979803
SNP_P4_145476_316932	NW_004516184.1	Scaffold811	316932	AA	GG	1946979805
SNP_P4_145477_12916	NW_004516185.1	Scaffold812	12916	GG	CC	1946979807
SNP_P4_145478_13441	NW_004516185.1	Scaffold812	13441	TT	CC	1946979809
SNP_P4_145479_33858	NW_004516185.1	Scaffold812	33858	GG	AA	1946979811
SNP_P4_145480_35818	NW_004516185.1	Scaffold812	35818	TT	CC	1946979813
SNP_P4_145481_41667	NW_004516185.1	Scaffold812	41667	AA	CC	1946979815
SNP_P4_145482_60487	NW_004516185.1	Scaffold812	60487	TT	AA	1946979817
SNP_P4_145483_66503	NW_004516185.1	Scaffold812	66503	AA	GG	1946979819
SNP_P4_145484_66802	NW_004516185.1	Scaffold812	66802	TT	GG	1946979821
SNP_P4_145485_67644	NW_004516185.1	Scaffold812	67644	AA	CC	1946979823
SNP_P4_145486_82414	NW_004516185.1	Scaffold812	82414	TT	GG	1946979825
SNP_P4_145487_82720	NW_004516185.1	Scaffold812	82720	AA	GG	1946979828
SNP_P4_145488_82742	NW_004516185.1	Scaffold812	82742	TT	GG	1946979830
SNP_P4_145489_82753	NW_004516185.1	Scaffold812	82753	GG	AA	1946979832
SNP_P4_145490_92197	NW_004516185.1	Scaffold812	92197	TT	CC	1946979834
SNP_P4_145491_92200	NW_004516185.1	Scaffold812	92200	TT	CC	1946979836
SNP_P4_145492_92241	NW_004516185.1	Scaffold812	92241	TT	CC	1946979839
SNP_P4_145493_92532	NW_004516185.1	Scaffold812	92532	TT	AA	1946979841
SNP_P4_145494_92597	NW_004516185.1	Scaffold812	92597	AA	GG	1946979843
SNP_P4_145495_94729	NW_004516185.1	Scaffold812	94729	CC	TT	1946979845
SNP_P4_145496_95432	NW_004516185.1	Scaffold812	95432	CC	AA	1946979847
SNP_P4_145497_95447	NW_004516185.1	Scaffold812	95447	TT	CC	1946979849
SNP_P4_145498_95475	NW_004516185.1	Scaffold812	95475	CC	TT	1946979851
SNP_P4_145500_105779	NW_004516185.1	Scaffold812	105779	GG	AA	1946979853
SNP_P4_145501_106066	NW_004516185.1	Scaffold812	106066	CC	GG	1946979855

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_145503_106764	NW_004516185.1	Scaffold812	106764	AA	CC	1946979859
SNP_P4_145504_106765	NW_004516185.1	Scaffold812	106765	CC	AA	1946979861
SNP_P4_145505_106769	NW_004516185.1	Scaffold812	106769	GG	AA	1946979863
SNP_P4_145506_106866	NW_004516185.1	Scaffold812	106866	GG	TT	1946979866
SNP_P4_145507_106872	NW_004516185.1	Scaffold812	106872	TT	GG	1946979868
SNP_P4_145508_107020	NW_004516185.1	Scaffold812	107020	TT	GG	1946979871
SNP_P4_145509_112029	NW_004516185.1	Scaffold812	112029	GG	TT	1946979873
SNP_P4_145510_112073	NW_004516185.1	Scaffold812	112073	AA	TT	1946979875
SNP_P4_145511_112084	NW_004516185.1	Scaffold812	112084	AA	TT	1946979877
SNP_P4_145512_112085	NW_004516185.1	Scaffold812	112085	TT	GG	1946979879
SNP_P4_145513_112372	NW_004516185.1	Scaffold812	112372	GG	TT	1946979881
SNP_P4_145514_112423	NW_004516185.1	Scaffold812	112423	CC	TT	1946979883
SNP_P4_145515_124490	NW_004516185.1	Scaffold812	124490	AA	CC	1946979885
SNP_P4_145516_142884	NW_004516185.1	Scaffold812	142884	AA	CC	1946979887
SNP_P4_145517_143236	NW_004516185.1	Scaffold812	143236	TT	CC	1946979889
SNP_P4_145518_143252	NW_004516185.1	Scaffold812	143252	AA	CC	1946979891
SNP_P4_145519_174274	NW_004516185.1	Scaffold812	174274	AA	GG	1946979893
SNP_P4_145520_187306	NW_004516185.1	Scaffold812	187306	CC	TT	1946979895
SNP_P4_145521_191224	NW_004516185.1	Scaffold812	191224	AA	GG	1946979897
SNP_P4_145522_199603	NW_004516185.1	Scaffold812	199603	AA	TT	1946979899
SNP_P4_145524_202960	NW_004516185.1	Scaffold812	202960	CC	GG	1946979901
SNP_P4_145526_205432	NW_004516185.1	Scaffold812	205432	CC	TT	1946979903
SNP_P4_145527_207876	NW_004516185.1	Scaffold812	207876	GG	TT	1946979905
SNP_P4_145528_209911	NW_004516185.1	Scaffold812	209911	CC	TT	1946979907
SNP_P4_145530_213240	NW_004516185.1	Scaffold812	213240	GG	TT	1946979909
SNP_P4_145532_214692	NW_004516185.1	Scaffold812	214692	AA	GG	1946979911
SNP_P4_145533_215173	NW_004516185.1	Scaffold812	215173	GG	AA	1946979913
SNP_P4_145535_215592	NW_004516185.1	Scaffold812	215592	AA	GG	1946979915
SNP_P4_145536_218961	NW_004516185.1	Scaffold812	218961	GG	AA	1946979917
SNP_P4_145537_221271	NW_004516185.1	Scaffold812	221271	CC	TT	1946979919
SNP_P4_145538_223199	NW_004516185.1	Scaffold812	223199	TT	CC	1946979921
SNP_P4_145539_223568	NW_004516185.1	Scaffold812	223568	TT	GG	1946979924
SNP_P4_145540_223717	NW_004516185.1	Scaffold812	223717	CC	TT	1946979926
SNP_P4_145541_225610	NW_004516185.1	Scaffold812	225610	CC	TT	1946979928
SNP_P4_145542_235759	NW_004516185.1	Scaffold812	235759	AA	GG	1946979930
SNP_P4_145544_254440	NW_004516185.1	Scaffold812	254440	GG	TT	1946979932
SNP_P4_145546_257430	NW_004516185.1	Scaffold812	257430	AA	CC	1946979934
SNP_P4_145547_259215	NW_004516185.1	Scaffold812	259215	CC	TT	1946979936
SNP_P4_145548_259722	NW_004516185.1	Scaffold812	259722	TT	CC	1946979938
SNP_P4_145550_260975	NW_004516185.1	Scaffold812	260975	AA	GG	1946979940
SNP_P4_145551_262711	NW_004516185.1	Scaffold812	262711	TT	CC	1946979942

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_145553_265270	NW_004516185.1	Scaffold812	265270	AA	GG	1946979947
SNP_P4_145554_269464	NW_004516185.1	Scaffold812	269464	CC	GG	1946979949
SNP_P4_145555_274359	NW_004516185.1	Scaffold812	274359	GG	CC	1946979951
SNP_P4_145556_278839	NW_004516185.1	Scaffold812	278839	CC	TT	1946979953
SNP_P4_145557_278840	NW_004516185.1	Scaffold812	278840	AA	GG	1946979955
SNP_P4_145558_278859	NW_004516185.1	Scaffold812	278859	AA	GG	1946979957
SNP_P4_145561_279210	NW_004516185.1	Scaffold812	279210	AA	GG	1946979959
SNP_P4_145562_283601	NW_004516185.1	Scaffold812	283601	GG	TT	1946979961
SNP_P4_145563_285183	NW_004516185.1	Scaffold812	285183	GG	AA	1946979963
SNP_P4_145564_286619	NW_004516185.1	Scaffold812	286619	AA	TT	1946979965
SNP_P4_145565_287451	NW_004516185.1	Scaffold812	287451	AA	GG	1946979967
SNP_P4_145566_287884	NW_004516185.1	Scaffold812	287884	AA	GG	1946979969
SNP_P4_145567_287900	NW_004516185.1	Scaffold812	287900	GG	AA	1946979971
SNP_P4_145568_294372	NW_004516185.1	Scaffold812	294372	GG	TT	1946979973
SNP_P4_145569_295114	NW_004516185.1	Scaffold812	295114	AA	TT	1946979975
SNP_P4_145570_295578	NW_004516185.1	Scaffold812	295578	GG	TT	1946979977
SNP_P4_145571_296574	NW_004516185.1	Scaffold812	296574	GG	TT	1946979979
SNP_P4_145572_297551	NW_004516185.1	Scaffold812	297551	TT	CC	1946979981
SNP_P4_145573_297555	NW_004516185.1	Scaffold812	297555	TT	GG	1946979983
SNP_P4_145574_300053	NW_004516185.1	Scaffold812	300053	AA	GG	1946979985
SNP_P4_145575_307481	NW_004516185.1	Scaffold812	307481	CC	TT	1946979988
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SNP_P4_145577_309670	NW_004516185.1	Scaffold812	309670	AA	GG	1946979992
SNP_P4_145578_310825	NW_004516185.1	Scaffold812	310825	GG	TT	1946979994
SNP_P4_145579_310905	NW_004516185.1	Scaffold812	310905	AA	TT	1946979996
SNP_P4_145581_315760	NW_004516185.1	Scaffold812	315760	AA	GG	1946979998
SNP_P4_145582_320337	NW_004516185.1	Scaffold812	320337	TT	GG	1946980000
SNP_P4_145583_322130	NW_004516185.1	Scaffold812	322130	TT	CC	1946980002
SNP_P4_145584_324102	NW_004516185.1	Scaffold812	324102	CC	TT	1946980005
SNP_P4_145585_324912	NW_004516185.1	Scaffold812	324912	TT	CC	1946980007
SNP_P4_145586_324940	NW_004516185.1	Scaffold812	324940	GG	AA	1946980009
SNP_P4_145587_326398	NW_004516185.1	Scaffold812	326398	GG	TT	1946980011
SNP_P4_145588_329724	NW_004516185.1	Scaffold812	329724	CC	TT	1946980013
SNP_P4_145589_329810	NW_004516185.1	Scaffold812	329810	TT	CC	1946980015
SNP_P4_145590_329815	NW_004516185.1	Scaffold812	329815	TT	CC	1946980017
SNP_P4_145591_330107	NW_004516185.1	Scaffold812	330107	CC	AA	1946980019
SNP_P4_145592_334476	NW_004516185.1	Scaffold812	334476	TT	CC	1946980021
SNP_P4_145593_335143	NW_004516185.1	Scaffold812	335143	TT	CC	1946980023
SNP_P4_145594_335257	NW_004516185.1	Scaffold812	335257	CC	TT	1946980025
SNP_P4_145595_338260	NW_004516185.1	Scaffold812	338260	CC	TT	1946980027
SNP_P4_145596_342857	NW_004516185.1	Scaffold812	342857	GG	AA	1946980029

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_145601_358708	NW_004516185.1	Scaffold812	358708	AA	TT	1946980034
SNP_P4_145602_363466	NW_004516185.1	Scaffold812	363466	GG	CC	1946980036
SNP_P4_145603_363812	NW_004516185.1	Scaffold812	363812	GG	TT	1946980038
SNP_P4_145604_368324	NW_004516185.1	Scaffold812	368324	AA	GG	1946980040
SNP_P4_145605_368697	NW_004516185.1	Scaffold812	368697	AA	GG	1946980042
SNP_P4_145606_374054	NW_004516185.1	Scaffold812	374054	CC	TT	1946980044
SNP_P4_145608_410773	NW_004516185.1	Scaffold812	410773	GG	CC	1946980046
SNP_P4_145609_416529	NW_004516185.1	Scaffold812	416529	TT	CC	1946980049
SNP_P4_145610_416815	NW_004516185.1	Scaffold812	416815	TT	CC	1946980051
SNP_P4_145611_416921	NW_004516185.1	Scaffold812	416921	TT	AA	1946980053
SNP_P4_145612_417513	NW_004516185.1	Scaffold812	417513	GG	AA	1946980055
SNP_P4_145613_428295	NW_004516185.1	Scaffold812	428295	CC	GG	1946980057
SNP_P4_145614_443969	NW_004516185.1	Scaffold812	443969	CC	TT	1946980059
SNP_P4_145615_458432	NW_004516185.1	Scaffold812	458432	CC	TT	1946980061
SNP_P4_145616_458433	NW_004516185.1	Scaffold812	458433	AA	GG	1946980062
SNP_P4_145617_458471	NW_004516185.1	Scaffold812	458471	AA	GG	1946980064
SNP_P4_145618_458657	NW_004516185.1	Scaffold812	458657	CC	AA	1946980066
SNP_P4_145619_469412	NW_004516185.1	Scaffold812	469412	GG	CC	1946980068
SNP_P4_145620_469760	NW_004516185.1	Scaffold812	469760	AA	GG	1946980070
SNP_P4_145621_470770	NW_004516185.1	Scaffold812	470770	AA	GG	1946980072
SNP_P4_145623_471645	NW_004516185.1	Scaffold812	471645	TT	CC	1946980074
SNP_P4_145624_480922	NW_004516185.1	Scaffold812	480922	AA	GG	1946980076
SNP_P4_145626_486981	NW_004516185.1	Scaffold812	486981	GG	CC	1946980078
SNP_P4_145627_487058	NW_004516185.1	Scaffold812	487058	TT	CC	1946980080
SNP_P4_145628_487068	NW_004516185.1	Scaffold812	487068	TT	CC	1946980082
SNP_P4_145629_487152	NW_004516185.1	Scaffold812	487152	AA	TT	1946980084
SNP_P4_145630_487198	NW_004516185.1	Scaffold812	487198	TT	CC	1946980085
SNP_P4_145631_487318	NW_004516185.1	Scaffold812	487318	CC	GG	1946980087
SNP_P4_145632_487327	NW_004516185.1	Scaffold812	487327	TT	CC	1946980089
SNP_P4_145634_487375	NW_004516185.1	Scaffold812	487375	TT	AA	1946980091
SNP_P4_145635_487403	NW_004516185.1	Scaffold812	487403	GG	AA	1946980093
SNP_P4_145636_512732	NW_004516185.1	Scaffold812	512732	CC	TT	1946980095
SNP_P4_145637_515558	NW_004516185.1	Scaffold812	515558	GG	AA	1946980097
SNP_P4_145638_524059	NW_004516185.1	Scaffold812	524059	AA	GG	1946980099
SNP_P4_145639_525899	NW_004516185.1	Scaffold812	525899	CC	TT	1946980101
SNP_P4_145640_525952	NW_004516185.1	Scaffold812	525952	TT	AA	1946980103
SNP_P4_145642_525993	NW_004516185.1	Scaffold812	525993	CC	TT	1946980105
SNP_P4_145643_526012	NW_004516185.1	Scaffold812	526012	TT	CC	1946980107
SNP_P4_145645_526260	NW_004516185.1	Scaffold812	526260	AA	TT	1946980109
SNP_P4_145646_526344	NW_004516185.1	Scaffold812	526344	AA	TT	1946980111
SNP_P4_145647_535195	NW_004516185.1	Scaffold812	535195	TT	AA	1946980113

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_145651_548873	NW_004516185.1	Scaffold812	548873	CC	TT	1946980119
SNP_P4_145652_548963	NW_004516185.1	Scaffold812	548963	GG	TT	1946980121
SNP_P4_145653_549075	NW_004516185.1	Scaffold812	549075	TT	GG	1946980123
SNP_P4_145654_549084	NW_004516185.1	Scaffold812	549084	AA	GG	1946980125
SNP_P4_145655_551734	NW_004516185.1	Scaffold812	551734	CC	TT	1946980127
SNP_P4_145656_2888	NW_004516186.1	Scaffold814	2888	TT	CC	1946980129
SNP_P4_145657_3321	NW_004516186.1	Scaffold814	3321	TT	AA	1946980131
SNP_P4_145658_3510	NW_004516186.1	Scaffold814	3510	GG	TT	1946980132
SNP_P4_145659_12264	NW_004516186.1	Scaffold814	12264	GG	AA	1946980134
SNP_P4_145660_12628	NW_004516186.1	Scaffold814	12628	TT	GG	1946980136
SNP_P4_145661_35602	NW_004516186.1	Scaffold814	35602	CC	TT	1946980138
SNP_P4_145662_35906	NW_004516186.1	Scaffold814	35906	TT	GG	1946980140
SNP_P4_145663_39755	NW_004516186.1	Scaffold814	39755	AA	CC	1946980142
SNP_P4_145664_39779	NW_004516186.1	Scaffold814	39779	AA	GG	1946980144
SNP_P4_145665_39853	NW_004516186.1	Scaffold814	39853	TT	CC	1946980146
SNP_P4_145666_39946	NW_004516186.1	Scaffold814	39946	TT	CC	1946980148
SNP_P4_145667_40067	NW_004516186.1	Scaffold814	40067	AA	TT	1946980151
SNP_P4_145668_40146	NW_004516186.1	Scaffold814	40146	CC	TT	1946980153
SNP_P4_145669_41240	NW_004516186.1	Scaffold814	41240	AA	CC	1946980155
SNP_P4_145670_41241	NW_004516186.1	Scaffold814	41241	GG	CC	1946980157
SNP_P4_145671_41260	NW_004516186.1	Scaffold814	41260	AA	GG	1946980159
SNP_P4_145672_41290	NW_004516186.1	Scaffold814	41290	AA	TT	1946980161
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SNP_P4_145674_41754	NW_004516186.1	Scaffold814	41754	TT	GG	1946980164
SNP_P4_145675_46460	NW_004516186.1	Scaffold814	46460	GG	AA	1946980166
SNP_P4_145676_46718	NW_004516186.1	Scaffold814	46718	GG	CC	1946980168
SNP_P4_145677_46790	NW_004516186.1	Scaffold814	46790	AA	GG	1946980170
SNP_P4_145678_3855	NW_004516188.1	Scaffold817	3855	GG	AA	1946980173
SNP_P4_145679_4613	NW_004516188.1	Scaffold817	4613	GG	TT	1946980175
SNP_P4_145681_4627	NW_004516188.1	Scaffold817	4627	TT	CC	1946980177
SNP_P4_145682_4659	NW_004516188.1	Scaffold817	4659	AA	TT	1946980179
SNP_P4_145683_4711	NW_004516188.1	Scaffold817	4711	GG	AA	1946980182
SNP_P4_145684_4736	NW_004516188.1	Scaffold817	4736	AA	GG	1946980184
SNP_P4_145685_4877	NW_004516188.1	Scaffold817	4877	CC	GG	1946980186
SNP_P4_145686_5351	NW_004516188.1	Scaffold817	5351	CC	GG	1946980188
SNP_P4_145687_11044	NW_004516188.1	Scaffold817	11044	CC	TT	1946980190
SNP_P4_145688_1276	NW_004516189.1	Scaffold818	1276	CC	GG	1946980192
SNP_P4_145689_1850	NW_004516189.1	Scaffold818	1850	CC	TT	1946980194
SNP_P4_145690_2007	NW_004516189.1	Scaffold818	2007	CC	TT	1946980196
SNP_P4_145691_2230	NW_004516189.1	Scaffold818	2230	GG	CC	1946980197

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_145692_2267	NW_004516189.1	Scaffold818	2267	CC	TT	1946980199
SNP_P4_145694_15487	NW_004516191.1	Scaffold820	15487	AA	GG	1946980201
SNP_P4_145695_17722	NW_004516191.1	Scaffold820	17722	TT	GG	1946980203
SNP_P4_145696_18670	NW_004516191.1	Scaffold820	18670	TT	CC	1946980205
SNP_P4_145697_25318	NW_004516191.1	Scaffold820	25318	GG	AA	1946980207
SNP_P4_145698_30402	NW_004516191.1	Scaffold820	30402	CC	GG	1946980209
SNP_P4_145699_30417	NW_004516191.1	Scaffold820	30417	GG	AA	1946980211
SNP_P4_145700_31875	NW_004516191.1	Scaffold820	31875	GG	AA	1946980213
SNP_P4_145701_37300	NW_004516191.1	Scaffold820	37300	AA	GG	1946980215
SNP_P4_145702_37303	NW_004516191.1	Scaffold820	37303	TT	GG	1946980217
SNP_P4_145703_37486	NW_004516191.1	Scaffold820	37486	TT	CC	1946980220
SNP_P4_145704_37490	NW_004516191.1	Scaffold820	37490	GG	AA	1946980222
SNP_P4_145705_37494	NW_004516191.1	Scaffold820	37494	TT	AA	1946980224
SNP_P4_145706_37526	NW_004516191.1	Scaffold820	37526	AA	GG	1946980226
SNP_P4_145707_37550	NW_004516191.1	Scaffold820	37550	AA	GG	1946980228
SNP_P4_145708_37553	NW_004516191.1	Scaffold820	37553	GG	AA	1946980229
SNP_P4_145709_37564	NW_004516191.1	Scaffold820	37564	CC	TT	1946980232
SNP_P4_145710_37872	NW_004516191.1	Scaffold820	37872	TT	CC	1946980233
SNP_P4_145711_39739	NW_004516191.1	Scaffold820	39739	TT	CC	1946980235
SNP_P4_145712_39773	NW_004516191.1	Scaffold820	39773	AA	GG	1946980238
SNP_P4_145713_39936	NW_004516191.1	Scaffold820	39936	GG	AA	1946980240
SNP_P4_145714_53846	NW_004516191.1	Scaffold820	53846	GG	AA	1946980242
SNP_P4_145715_23206	NW_004516193.1	Scaffold822	23206	CC	AA	1946980244
SNP_P4_145716_5317	NW_004516194.1	Scaffold823	5317	GG	TT	1946980246
SNP_P4_145717_22865	NW_004516194.1	Scaffold823	22865	AA	TT	1946980248
SNP_P4_145718_23191	NW_004516194.1	Scaffold823	23191	TT	CC	1946980250
SNP_P4_145719_23204	NW_004516194.1	Scaffold823	23204	AA	TT	1946980252
SNP_P4_145720_24535	NW_004516194.1	Scaffold823	24535	CC	GG	1946980254
SNP_P4_145721_24618	NW_004516194.1	Scaffold823	24618	AA	GG	1946980256
SNP_P4_145722_24635	NW_004516194.1	Scaffold823	24635	AA	TT	1946980257
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SNP_P4_145725_24746	NW_004516194.1	Scaffold823	24746	AA	GG	1946980261
SNP_P4_145726_28092	NW_004516194.1	Scaffold823	28092	CC	TT	1946980263
SNP_P4_145727_28296	NW_004516194.1	Scaffold823	28296	TT	CC	1946980265
SNP_P4_145728_28344	NW_004516194.1	Scaffold823	28344	AA	CC	1946980266
SNP_P4_145729_28358	NW_004516194.1	Scaffold823	28358	TT	CC	1946980268
SNP_P4_145730_28360	NW_004516194.1	Scaffold823	28360	CC	TT	1946980270
SNP_P4_145731_28386	NW_004516194.1	Scaffold823	28386	CC	TT	1946980272
SNP_P4_145732_28415	NW_004516194.1	Scaffold823	28415	CC	AA	1946980274
SNP_P4_145733_28439	NW_004516194.1	Scaffold823	28439	CC	AA	1946980276
SNP_P4_145734_28464	NW_004516194.1	Scaffold823	28464	CC	AA	1946980278

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_145736_28509	NW_004516194.1	Scaffold823	28509	AA	GG	1946980282
SNP_P4_145737_28514	NW_004516194.1	Scaffold823	28514	TT	CC	1946980284
SNP_P4_145738_28583	NW_004516194.1	Scaffold823	28583	AA	TT	1946980286
SNP_P4_145739_28613	NW_004516194.1	Scaffold823	28613	GG	AA	1946980288
SNP_P4_145740_28661	NW_004516194.1	Scaffold823	28661	TT	GG	1946980290
SNP_P4_145741_28682	NW_004516194.1	Scaffold823	28682	CC	AA	1946980292
SNP_P4_145742_28726	NW_004516194.1	Scaffold823	28726	AA	TT	1946980293
SNP_P4_145743_28769	NW_004516194.1	Scaffold823	28769	GG	CC	1946980295
SNP_P4_145744_28792	NW_004516194.1	Scaffold823	28792	GG	TT	1946980297
SNP_P4_145745_35042	NW_004516194.1	Scaffold823	35042	AA	CC	1946980299
SNP_P4_145746_35046	NW_004516194.1	Scaffold823	35046	AA	GG	1946980301
SNP_P4_145747_44155	NW_004516194.1	Scaffold823	44155	GG	TT	1946980303
SNP_P4_145748_44160	NW_004516194.1	Scaffold823	44160	TT	CC	1946980305
SNP_P4_145749_47459	NW_004516194.1	Scaffold823	47459	GG	CC	1946980307
SNP_P4_145750_47461	NW_004516194.1	Scaffold823	47461	CC	TT	1946980309
SNP_P4_145751_47521	NW_004516194.1	Scaffold823	47521	CC	TT	1946980311
SNP_P4_145752_47551	NW_004516194.1	Scaffold823	47551	AA	TT	1946980313
SNP_P4_145753_47572	NW_004516194.1	Scaffold823	47572	GG	AA	1946980315
SNP_P4_145754_47632	NW_004516194.1	Scaffold823	47632	CC	GG	1946980316
SNP_P4_145755_47683	NW_004516194.1	Scaffold823	47683	TT	CC	1946980318
SNP_P4_145756_47691	NW_004516194.1	Scaffold823	47691	TT	CC	1946980320
SNP_P4_145757_47777	NW_004516194.1	Scaffold823	47777	TT	CC	1946980322
SNP_P4_145758_47817	NW_004516194.1	Scaffold823	47817	TT	CC	1946980324
SNP_P4_145759_47837	NW_004516194.1	Scaffold823	47837	AA	CC	1946980326
SNP_P4_145760_47910	NW_004516194.1	Scaffold823	47910	TT	CC	1946980328
SNP_P4_145761_47950	NW_004516194.1	Scaffold823	47950	CC	GG	1946980330
SNP_P4_145762_47957	NW_004516194.1	Scaffold823	47957	AA	GG	1946980332
SNP_P4_145763_47979	NW_004516194.1	Scaffold823	47979	GG	AA	1946980334
SNP_P4_145764_48128	NW_004516194.1	Scaffold823	48128	TT	CC	1946980336
SNP_P4_145765_48156	NW_004516194.1	Scaffold823	48156	TT	CC	1946980338
SNP_P4_145766_48208	NW_004516194.1	Scaffold823	48208	AA	TT	1946980340
SNP_P4_145767_48216	NW_004516194.1	Scaffold823	48216	AA	CC	1946980342
SNP_P4_145768_48454	NW_004516194.1	Scaffold823	48454	TT	GG	1946980344
SNP_P4_145769_49359	NW_004516194.1	Scaffold823	49359	AA	GG	1946980346
SNP_P4_145770_49401	NW_004516194.1	Scaffold823	49401	TT	GG	1946980348
SNP_P4_145771_49547	NW_004516194.1	Scaffold823	49547	GG	AA	1946980350
SNP_P4_145772_49601	NW_004516194.1	Scaffold823	49601	AA	TT	1946980352
SNP_P4_145773_49643	NW_004516194.1	Scaffold823	49643	AA	GG	1946980354
SNP_P4_145774_49679	NW_004516194.1	Scaffold823	49679	GG	AA	1946980356
SNP_P4_145775_53442	NW_004516194.1	Scaffold823	53442	GG	TT	1946980358
SNP_P4_145776_53668	NW_004516194.1	Scaffold823	53668	CC	GG	1946980360

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_145779_58243	NW_004516194.1	Scaffold823	58243	TT	AA	1946980366
SNP_P4_145780_58544	NW_004516194.1	Scaffold823	58544	CC	TT	1946980368
SNP_P4_145781_58800	NW_004516194.1	Scaffold823	58800	AA	GG	1946980370
SNP_P4_145782_60166	NW_004516194.1	Scaffold823	60166	TT	CC	1946980372
SNP_P4_145783_60461	NW_004516194.1	Scaffold823	60461	TT	CC	1946980374
SNP_P4_145784_60481	NW_004516194.1	Scaffold823	60481	TT	CC	1946980376
SNP_P4_145785_60509	NW_004516194.1	Scaffold823	60509	TT	AA	1946980377
SNP_P4_145786_61833	NW_004516194.1	Scaffold823	61833	CC	AA	1946980379
SNP_P4_145787_61969	NW_004516194.1	Scaffold823	61969	CC	TT	1946980381
SNP_P4_145788_62011	NW_004516194.1	Scaffold823	62011	TT	AA	1946980383
SNP_P4_145789_62045	NW_004516194.1	Scaffold823	62045	AA	TT	1946980385
SNP_P4_145790_62073	NW_004516194.1	Scaffold823	62073	AA	GG	1946980387
SNP_P4_145791_62131	NW_004516194.1	Scaffold823	62131	GG	AA	1946980389
SNP_P4_145792_62138	NW_004516194.1	Scaffold823	62138	CC	TT	1946980391
SNP_P4_145793_62270	NW_004516194.1	Scaffold823	62270	AA	CC	1946980393
SNP_P4_145794_62364	NW_004516194.1	Scaffold823	62364	CC	TT	1946980395
SNP_P4_145795_62425	NW_004516194.1	Scaffold823	62425	TT	AA	1946980397
SNP_P4_145796_62432	NW_004516194.1	Scaffold823	62432	CC	TT	1946980399
SNP_P4_145797_62675	NW_004516194.1	Scaffold823	62675	CC	TT	1946980401
SNP_P4_145798_62680	NW_004516194.1	Scaffold823	62680	GG	AA	1946980402
SNP_P4_145799_62709	NW_004516194.1	Scaffold823	62709	TT	AA	1946980404
SNP_P4_145800_62826	NW_004516194.1	Scaffold823	62826	AA	TT	1946980406
SNP_P4_145801_62839	NW_004516194.1	Scaffold823	62839	AA	GG	1946980408
SNP_P4_145802_62933	NW_004516194.1	Scaffold823	62933	TT	CC	1946980410
SNP_P4_145803_62965	NW_004516194.1	Scaffold823	62965	TT	AA	1946980412
SNP_P4_145804_63040	NW_004516194.1	Scaffold823	63040	GG	AA	1946980414
SNP_P4_145805_63076	NW_004516194.1	Scaffold823	63076	TT	AA	1946980416
SNP_P4_145806_63320	NW_004516194.1	Scaffold823	63320	CC	GG	1946980418
SNP_P4_145807_63541	NW_004516194.1	Scaffold823	63541	TT	AA	1946980420
SNP_P4_145808_63544	NW_004516194.1	Scaffold823	63544	GG	AA	1946980422
SNP_P4_145809_63631	NW_004516194.1	Scaffold823	63631	GG	TT	1946980424
SNP_P4_145811_4616	NW_004516195.1	Scaffold824	4616	AA	TT	1946980426
SNP_P4_145813_6142	NW_004516195.1	Scaffold824	6142	CC	GG	1946980428
SNP_P4_145814_7112	NW_004516195.1	Scaffold824	7112	AA	TT	1946980429
SNP_P4_145816_7136	NW_004516195.1	Scaffold824	7136	GG	TT	1946980431
SNP_P4_145817_7155	NW_004516195.1	Scaffold824	7155	AA	CC	1946980433
SNP_P4_145818_7219	NW_004516195.1	Scaffold824	7219	AA	GG	1946980435
SNP_P4_145819_7224	NW_004516195.1	Scaffold824	7224	GG	TT	1946980437
SNP_P4_145820_7281	NW_004516195.1	Scaffold824	7281	AA	TT	1946980439
SNP_P4_145821_7289	NW_004516195.1	Scaffold824	7289	GG	TT	1946980441

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_145824_11447	NW_004516195.1	Scaffold824	11447	TT	AA	1946980447
SNP_P4_145825_11465	NW_004516195.1	Scaffold824	11465	CC	AA	1946980449
SNP_P4_145826_11552	NW_004516195.1	Scaffold824	11552	GG	AA	1946980451
SNP_P4_145827_11661	NW_004516195.1	Scaffold824	11661	AA	GG	1946980453
SNP_P4_145828_11781	NW_004516195.1	Scaffold824	11781	CC	TT	1946980455
SNP_P4_145829_11788	NW_004516195.1	Scaffold824	11788	GG	AA	1946980457
SNP_P4_145830_11822	NW_004516195.1	Scaffold824	11822	AA	TT	1946980459
SNP_P4_145831_12002	NW_004516195.1	Scaffold824	12002	CC	TT	1946980461
SNP_P4_145832_12013	NW_004516195.1	Scaffold824	12013	AA	GG	1946980463
SNP_P4_145833_13967	NW_004516195.1	Scaffold824	13967	AA	GG	1946980465
SNP_P4_145834_15866	NW_004516195.1	Scaffold824	15866	GG	AA	1946980467
SNP_P4_145835_20326	NW_004516195.1	Scaffold824	20326	AA	GG	1946980469
SNP_P4_145836_20382	NW_004516195.1	Scaffold824	20382	AA	GG	1946980471
SNP_P4_145837_20632	NW_004516195.1	Scaffold824	20632	AA	TT	1946980473
SNP_P4_145838_21208	NW_004516195.1	Scaffold824	21208	TT	CC	1946980475
SNP_P4_145839_21302	NW_004516195.1	Scaffold824	21302	TT	GG	1946980477
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SNP_P4_145842_7343	NW_004516196.1	Scaffold825	7343	AA	GG	1946980484
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SNP_P4_145844_1996	NW_004516198.1	Scaffold829	1996	TT	GG	1946980487
SNP_P4_145845_2314	NW_004516198.1	Scaffold829	2314	AA	TT	1946980490
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SNP_P4_145853_8378	NW_004516198.1	Scaffold829	8378	GG	AA	1946980504
SNP_P4_145854_8409	NW_004516198.1	Scaffold829	8409	CC	TT	1946980506
SNP_P4_145855_8619	NW_004516198.1	Scaffold829	8619	AA	GG	1946980508
SNP_P4_145856_8636	NW_004516198.1	Scaffold829	8636	TT	AA	1946980510
SNP_P4_145857_8671	NW_004516198.1	Scaffold829	8671	TT	CC	1946980512
SNP_P4_145858_8680	NW_004516198.1	Scaffold829	8680	TT	CC	1946980514
SNP_P4_145859_8749	NW_004516198.1	Scaffold829	8749	GG	AA	1946980516
SNP_P4_145860_8774	NW_004516198.1	Scaffold829	8774	CC	TT	1946980518
SNP_P4_145861_8783	NW_004516198.1	Scaffold829	8783	CC	TT	1946980520
SNP_P4_145862_8845	NW_004516198.1	Scaffold829	8845	CC	TT	1946980522
SNP_P4_145863_8935	NW_004516198.1	Scaffold829	8935	GG	CC	1946980524
SNP_P4_145864_8976	NW_004516198.1	Scaffold829	8976	AA	CC	1946980526

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_145867_9045	NW_004516198.1	Scaffold829	9045	CC	GG	1946980532
SNP_P4_145868_9145	NW_004516198.1	Scaffold829	9145	GG	CC	1946980533
SNP_P4_145869_9148	NW_004516198.1	Scaffold829	9148	AA	GG	1946980535
SNP_P4_145870_9151	NW_004516198.1	Scaffold829	9151	TT	AA	1946980537
SNP_P4_145871_9256	NW_004516198.1	Scaffold829	9256	TT	CC	1946980539
SNP_P4_145872_9263	NW_004516198.1	Scaffold829	9263	AA	GG	1946980541
SNP_P4_145873_9287	NW_004516198.1	Scaffold829	9287	AA	GG	1946980543
SNP_P4_145874_9361	NW_004516198.1	Scaffold829	9361	CC	TT	1946980545
SNP_P4_145875_9363	NW_004516198.1	Scaffold829	9363	CC	GG	1946980547
SNP_P4_145876_9850	NW_004516198.1	Scaffold829	9850	CC	TT	1946980549
SNP_P4_145877_10145	NW_004516198.1	Scaffold829	10145	TT	GG	1946980551
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SNP_P4_145883_10904	NW_004516198.1	Scaffold829	10904	TT	AA	1946980562
SNP_P4_145885_11096	NW_004516198.1	Scaffold829	11096	GG	AA	1946980564
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SNP_P4_145887_12375	NW_004516198.1	Scaffold829	12375	CC	TT	1946980567
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SNP_P4_145891_12611	NW_004516198.1	Scaffold829	12611	TT	CC	1946980575
SNP_P4_145892_12630	NW_004516198.1	Scaffold829	12630	TT	AA	1946980577
SNP_P4_145893_12702	NW_004516198.1	Scaffold829	12702	CC	TT	1946980579
SNP_P4_145894_12712	NW_004516198.1	Scaffold829	12712	TT	AA	1946980581
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SNP_P4_145896_16548	NW_004516198.1	Scaffold829	16548	GG	AA	1946980585
SNP_P4_145897_16766	NW_004516198.1	Scaffold829	16766	GG	AA	1946980587
SNP_P4_145898_16769	NW_004516198.1	Scaffold829	16769	TT	GG	1946980589
SNP_P4_145899_1356	NW_004516199.1	Scaffold831	1356	AA	GG	1946980591
SNP_P4_145900_1769	NW_004516199.1	Scaffold831	1769	CC	TT	1946980593
SNP_P4_145901_6138	NW_004516199.1	Scaffold831	6138	TT	AA	1946980594
SNP_P4_145902_7625	NW_004516199.1	Scaffold831	7625	GG	AA	1946980596
SNP_P4_145903_12194	NW_004516199.1	Scaffold831	12194	TT	CC	1946980598
SNP_P4_145904_12528	NW_004516199.1	Scaffold831	12528	TT	CC	1946980600
SNP_P4_145905_12558	NW_004516199.1	Scaffold831	12558	CC	TT	1946980602
SNP_P4_145906_12615	NW_004516199.1	Scaffold831	12615	GG	AA	1946980604
SNP_P4_145907_16088	NW_004516199.1	Scaffold831	16088	GG	AA	1946980606

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_145908_16865	NW_004516199.1	Scaffold831	16865	GG	AA	1946980608
SNP_P4_145909_19648	NW_004516199.1	Scaffold831	19648	AA	GG	1946980610
SNP_P4_145910_19657	NW_004516199.1	Scaffold831	19657	GG	CC	1946980612
SNP_P4_145911_20348	NW_004516199.1	Scaffold831	20348	AA	GG	1946980614
SNP_P4_145912_34655	NW_004516199.1	Scaffold831	34655	TT	CC	1946980616
SNP_P4_145913_43625	NW_004516199.1	Scaffold831	43625	AA	TT	1946980618
SNP_P4_145914_43969	NW_004516199.1	Scaffold831	43969	TT	CC	1946980620
SNP_P4_145915_43980	NW_004516199.1	Scaffold831	43980	CC	AA	1946980622
SNP_P4_145916_49258	NW_004516199.1	Scaffold831	49258	AA	GG	1946980624
SNP_P4_145918_52432	NW_004516199.1	Scaffold831	52432	GG	TT	1946980626
SNP_P4_145919_52831	NW_004516199.1	Scaffold831	52831	AA	GG	1946980628
SNP_P4_145920_52910	NW_004516199.1	Scaffold831	52910	TT	AA	1946980630
SNP_P4_145921_53760	NW_004516199.1	Scaffold831	53760	GG	AA	1946980632
SNP_P4_145922_53765	NW_004516199.1	Scaffold831	53765	TT	CC	1946980634
SNP_P4_145923_53785	NW_004516199.1	Scaffold831	53785	CC	AA	1946980636
SNP_P4_145924_54105	NW_004516199.1	Scaffold831	54105	CC	AA	1946980638
SNP_P4_145925_54143	NW_004516199.1	Scaffold831	54143	AA	GG	1946980640
SNP_P4_145926_56896	NW_004516199.1	Scaffold831	56896	TT	AA	1946980642
SNP_P4_145927_56920	NW_004516199.1	Scaffold831	56920	CC	GG	1946980644
SNP_P4_145928_57226	NW_004516199.1	Scaffold831	57226	TT	CC	1946980646
SNP_P4_145929_57234	NW_004516199.1	Scaffold831	57234	GG	TT	1946980649
SNP_P4_145930_57246	NW_004516199.1	Scaffold831	57246	CC	TT	1946980651
SNP_P4_145931_59579	NW_004516199.1	Scaffold831	59579	AA	TT	1946980653
SNP_P4_145932_65384	NW_004516199.1	Scaffold831	65384	GG	AA	1946980655
SNP_P4_145933_65389	NW_004516199.1	Scaffold831	65389	TT	AA	1946980657
SNP_P4_145934_70988	NW_004516199.1	Scaffold831	70988	CC	TT	1946980659
SNP_P4_145935_71230	NW_004516199.1	Scaffold831	71230	CC	AA	1946980661
SNP_P4_145936_80877	NW_004516199.1	Scaffold831	80877	GG	TT	1946980663
SNP_P4_145937_80879	NW_004516199.1	Scaffold831	80879	CC	TT	1946980665
SNP_P4_145938_86800	NW_004516199.1	Scaffold831	86800	AA	TT	1946980667
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SNP_P4_145940_11299	NW_004516200.1	Scaffold833	11299	GG	TT	1946980671
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SNP_P4_145942_14082	NW_004516200.1	Scaffold833	14082	AA	GG	1946980674
SNP_P4_145943_17696	NW_004516200.1	Scaffold833	17696	GG	AA	1946980676
SNP_P4_145944_18452	NW_004516200.1	Scaffold833	18452	AA	CC	1946980678
SNP_P4_145945_19115	NW_004516200.1	Scaffold833	19115	CC	TT	1946980680
SNP_P4_145946_123	NW_004516203.1	Scaffold837	123	AA	TT	1946980682
SNP_P4_145947_546	NW_004516205.1	Scaffold840	546	GG	AA	1946980684
SNP_P4_145948_548	NW_004516205.1	Scaffold840	548	TT	GG	1946980686
SNP_P4_145949_64	NW_004516206.1	Scaffold841	64	AA	GG	1946980688
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_145952_209	NW_004516206.1	Scaffold841	209	AA	TT	1946980694
SNP_P4_145954_351	NW_004516206.1	Scaffold841	351	AA	GG	1946980696
SNP_P4_145955_428	NW_004516206.1	Scaffold841	428	GG	TT	1946980699
SNP_P4_145957_491	NW_004516206.1	Scaffold841	491	TT	AA	1946980701
SNP_P4_145958_541	NW_004516206.1	Scaffold841	541	CC	TT	1946980703
SNP_P4_145959_543	NW_004516206.1	Scaffold841	543	TT	AA	1946980705
SNP_P4_145960_576	NW_004516206.1	Scaffold841	576	TT	AA	1946980707
SNP_P4_145961_578	NW_004516206.1	Scaffold841	578	CC	AA	1946980709
SNP_P4_145962_581	NW_004516206.1	Scaffold841	581	GG	AA	1946980711
SNP_P4_145963_1189	NW_004516206.1	Scaffold841	1189	CC	TT	1946980713
SNP_P4_145964_2860	NW_004516206.1	Scaffold841	2860	CC	TT	1946980715
SNP_P4_145965_3123	NW_004516206.1	Scaffold841	3123	GG	AA	1946980717
SNP_P4_145966_3365	NW_004516206.1	Scaffold841	3365	GG	AA	1946980719
SNP_P4_145967_3498	NW_004516206.1	Scaffold841	3498	TT	CC	1946980721
SNP_P4_145968_3514	NW_004516206.1	Scaffold841	3514	GG	CC	1946980724
SNP_P4_145969_3537	NW_004516206.1	Scaffold841	3537	GG	AA	1946980726
SNP_P4_145970_9694	NW_004516206.1	Scaffold841	9694	CC	AA	1946980728
SNP_P4_145971_9704	NW_004516206.1	Scaffold841	9704	GG	CC	1946980730
SNP_P4_145972_23721	NW_004516206.1	Scaffold841	23721	GG	TT	1946980732
SNP_P4_145973_36062	NW_004516206.1	Scaffold841	36062	AA	GG	1946980734
SNP_P4_145974_36460	NW_004516206.1	Scaffold841	36460	CC	TT	1946980736
SNP_P4_145975_37098	NW_004516206.1	Scaffold841	37098	GG	TT	1946980739
SNP_P4_145977_37439	NW_004516206.1	Scaffold841	37439	CC	AA	1946980741
SNP_P4_145978_37647	NW_004516206.1	Scaffold841	37647	CC	GG	1946980743
SNP_P4_145979_39082	NW_004516206.1	Scaffold841	39082	CC	AA	1946980745
SNP_P4_145980_39532	NW_004516206.1	Scaffold841	39532	GG	TT	1946980747
SNP_P4_145981_39750	NW_004516206.1	Scaffold841	39750	GG	TT	1946980749
SNP_P4_145982_39770	NW_004516206.1	Scaffold841	39770	AA	TT	1946980751
SNP_P4_145983_39773	NW_004516206.1	Scaffold841	39773	GG	TT	1946980753
SNP_P4_145984_39784	NW_004516206.1	Scaffold841	39784	GG	TT	1946980755
SNP_P4_145985_39785	NW_004516206.1	Scaffold841	39785	TT	GG	1946980756
SNP_P4_145986_39787	NW_004516206.1	Scaffold841	39787	CC	TT	1946980757
SNP_P4_145988_444	NW_004516207.1	Scaffold842	444	TT	CC	1946980758
SNP_P4_145989_568	NW_004516207.1	Scaffold842	568	TT	CC	1946980759
SNP_P4_145990_3678	NW_004516207.1	Scaffold842	3678	GG	CC	1946980760
SNP_P4_145991_7274	NW_004516207.1	Scaffold842	7274	TT	AA	1946980762
SNP_P4_145992_7320	NW_004516207.1	Scaffold842	7320	CC	AA	1946980764
SNP_P4_145993_7684	NW_004516207.1	Scaffold842	7684	TT	AA	1946980766
SNP_P4_145994_7762	NW_004516207.1	Scaffold842	7762	GG	AA	1946980768
SNP_P4_145995_7771	NW_004516207.1	Scaffold842	7771	AA	GG	1946980770
SNP_P4_145996_15715	NW_004516207.1	Scaffold842	15715	CC	TT	1946980772

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_145999_20546	NW_004516207.1	Scaffold842	20546	GG	TT	1946980776
SNP_P4_146000_20547	NW_004516207.1	Scaffold842	20547	GG	AA	1946980778
SNP_P4_146001_20559	NW_004516207.1	Scaffold842	20559	GG	CC	1946980780
SNP_P4_146002_20584	NW_004516207.1	Scaffold842	20584	GG	CC	1946980782
SNP_P4_146004_20664	NW_004516207.1	Scaffold842	20664	GG	TT	1946980784
SNP_P4_146005_20736	NW_004516207.1	Scaffold842	20736	AA	GG	1946980786
SNP_P4_146006_20755	NW_004516207.1	Scaffold842	20755	TT	GG	1946980788
SNP_P4_146007_21414	NW_004516207.1	Scaffold842	21414	TT	CC	1946980790
SNP_P4_146008_29292	NW_004516207.1	Scaffold842	29292	AA	TT	1946980792
SNP_P4_146009_29293	NW_004516207.1	Scaffold842	29293	TT	CC	1946980794
SNP_P4_146010_29925	NW_004516207.1	Scaffold842	29925	CC	AA	1946980796
SNP_P4_146011_36647	NW_004516207.1	Scaffold842	36647	AA	CC	1946980798
SNP_P4_146012_36693	NW_004516207.1	Scaffold842	36693	AA	GG	1946980800
SNP_P4_146013_36699	NW_004516207.1	Scaffold842	36699	CC	TT	1946980802
SNP_P4_146014_39862	NW_004516207.1	Scaffold842	39862	TT	CC	1946980804
SNP_P4_146015_39914	NW_004516207.1	Scaffold842	39914	TT	CC	1946980805
SNP_P4_146016_1448	NW_004516208.1	Scaffold843	1448	GG	CC	1946980807
SNP_P4_146017_1747	NW_004516208.1	Scaffold843	1747	CC	TT	1946980809
SNP_P4_146018_1798	NW_004516208.1	Scaffold843	1798	CC	GG	1946980812
SNP_P4_146019_1817	NW_004516208.1	Scaffold843	1817	CC	TT	1946980814
SNP_P4_146021_2198	NW_004516208.1	Scaffold843	2198	TT	CC	1946980816
SNP_P4_146022_2281	NW_004516208.1	Scaffold843	2281	CC	TT	1946980818
SNP_P4_146023_2350	NW_004516208.1	Scaffold843	2350	GG	AA	1946980820
SNP_P4_146024_2451	NW_004516208.1	Scaffold843	2451	CC	GG	1946980821
SNP_P4_146025_2484	NW_004516208.1	Scaffold843	2484	GG	AA	1946980823
SNP_P4_146026_2530	NW_004516208.1	Scaffold843	2530	TT	CC	1946980825
SNP_P4_146027_2945	NW_004516208.1	Scaffold843	2945	CC	AA	1946980827
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SNP_P4_146029_3118	NW_004516208.1	Scaffold843	3118	GG	AA	1946980831
SNP_P4_146030_3389	NW_004516208.1	Scaffold843	3389	TT	CC	1946980833
SNP_P4_146031_3505	NW_004516208.1	Scaffold843	3505	GG	AA	1946980835
SNP_P4_146032_4133	NW_004516208.1	Scaffold843	4133	AA	GG	1946980837
SNP_P4_146033_4142	NW_004516208.1	Scaffold843	4142	GG	TT	1946980839
SNP_P4_146034_4155	NW_004516208.1	Scaffold843	4155	TT	AA	1946980841
SNP_P4_146035_4356	NW_004516208.1	Scaffold843	4356	TT	CC	1946980843
SNP_P4_146036_4480	NW_004516208.1	Scaffold843	4480	AA	CC	1946980845
SNP_P4_146037_4565	NW_004516208.1	Scaffold843	4565	AA	TT	1946980847
SNP_P4_146038_6160	NW_004516208.1	Scaffold843	6160	TT	AA	1946980848
SNP_P4_146039_7589	NW_004516208.1	Scaffold843	7589	TT	GG	1946980850
SNP_P4_146040_25650	NW_004516208.1	Scaffold843	25650	GG	AA	1946980853
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_146044_2977	NW_004516210.1	Scaffold845	2977	CC	TT	1946980858
SNP_P4_146045_3305	NW_004516210.1	Scaffold845	3305	AA	GG	1946980860
SNP_P4_146047_3824	NW_004516210.1	Scaffold845	3824	GG	TT	1946980862
SNP_P4_146048_4952	NW_004516210.1	Scaffold845	4952	CC	TT	1946980863
SNP_P4_146049_5598	NW_004516210.1	Scaffold845	5598	GG	AA	1946980865
SNP_P4_146050_6334	NW_004516210.1	Scaffold845	6334	TT	CC	1946980867
SNP_P4_146051_7286	NW_004516210.1	Scaffold845	7286	TT	AA	1946980869
SNP_P4_146052_7300	NW_004516210.1	Scaffold845	7300	GG	CC	1946980871
SNP_P4_146053_7389	NW_004516210.1	Scaffold845	7389	GG	TT	1946980873
SNP_P4_146054_7508	NW_004516210.1	Scaffold845	7508	GG	TT	1946980875
SNP_P4_146055_7640	NW_004516210.1	Scaffold845	7640	CC	TT	1946980877
SNP_P4_146056_11831	NW_004516210.1	Scaffold845	11831	TT	CC	1946980879
SNP_P4_146057_11886	NW_004516210.1	Scaffold845	11886	TT	CC	1946980881
SNP_P4_146059_12457	NW_004516210.1	Scaffold845	12457	TT	GG	1946980883
SNP_P4_146060_13332	NW_004516210.1	Scaffold845	13332	TT	CC	1946980885
SNP_P4_146061_15780	NW_004516210.1	Scaffold845	15780	GG	AA	1946980887
SNP_P4_146062_15795	NW_004516210.1	Scaffold845	15795	GG	AA	1946980889
SNP_P4_146063_15864	NW_004516210.1	Scaffold845	15864	GG	AA	1946980890
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SNP_P4_146068_17285	NW_004516210.1	Scaffold845	17285	AA	CC	1946980898
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SNP_P4_146073_17468	NW_004516210.1	Scaffold845	17468	AA	GG	1946980908
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SNP_P4_146081_19285	NW_004516210.1	Scaffold845	19285	CC	TT	1946980919
SNP_P4_146084_21811	NW_004516210.1	Scaffold845	21811	TT	CC	1946980921
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SNP_P4_146087_22218	NW_004516210.1	Scaffold845	22218	AA	GG	1946980925
SNP_P4_146088_22266	NW_004516210.1	Scaffold845	22266	GG	TT	1946980927
SNP_P4_146089_22267	NW_004516210.1	Scaffold845	22267	TT	AA	1946980930
SNP_P4_146091_22344	NW_004516210.1	Scaffold845	22344	AA	GG	1946980932
SNP_P4_146092_22557	NW_004516210.1	Scaffold845	22557	TT	CC	1946980934
SNP_P4_146093_22596	NW_004516210.1	Scaffold845	22596	CC	TT	1946980936
SNP_P4_146094_23021	NW_004516210.1	Scaffold845	23021	GG	AA	1946980938

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_146098_23520	NW_004516210.1	Scaffold845	23520	TT	AA	1946980944
SNP_P4_146099_23521	NW_004516210.1	Scaffold845	23521	AA	TT	1946980946
SNP_P4_146100_23523	NW_004516210.1	Scaffold845	23523	CC	GG	1946980948
SNP_P4_146101_23528	NW_004516210.1	Scaffold845	23528	CC	TT	1946980950
SNP_P4_146102_23544	NW_004516210.1	Scaffold845	23544	CC	TT	1946980952
SNP_P4_146104_23573	NW_004516210.1	Scaffold845	23573	TT	GG	1946980954
SNP_P4_146105_24476	NW_004516210.1	Scaffold845	24476	CC	GG	1946980956
SNP_P4_146106_24562	NW_004516210.1	Scaffold845	24562	GG	AA	1946980958
SNP_P4_146107_24569	NW_004516210.1	Scaffold845	24569	CC	TT	1946980960
SNP_P4_146108_24622	NW_004516210.1	Scaffold845	24622	TT	CC	1946980962
SNP_P4_146109_24684	NW_004516210.1	Scaffold845	24684	AA	GG	1946980964
SNP_P4_146110_24688	NW_004516210.1	Scaffold845	24688	CC	TT	1946980966
SNP_P4_146111_24690	NW_004516210.1	Scaffold845	24690	AA	GG	1946980968
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SNP_P4_146114_25540	NW_004516210.1	Scaffold845	25540	AA	CC	1946980973
SNP_P4_146115_25585	NW_004516210.1	Scaffold845	25585	TT	CC	1946980975
SNP_P4_146116_25635	NW_004516210.1	Scaffold845	25635	GG	AA	1946980977
SNP_P4_146117_25664	NW_004516210.1	Scaffold845	25664	TT	CC	1946980979
SNP_P4_146118_25717	NW_004516210.1	Scaffold845	25717	GG	TT	1946980981
SNP_P4_146119_26508	NW_004516210.1	Scaffold845	26508	AA	CC	1946980983
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SNP_P4_146122_26919	NW_004516210.1	Scaffold845	26919	CC	AA	1946980990
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SNP_P4_146126_28525	NW_004516210.1	Scaffold845	28525	TT	AA	1946980996
SNP_P4_146127_28528	NW_004516210.1	Scaffold845	28528	AA	GG	1946980998
SNP_P4_146128_29412	NW_004516210.1	Scaffold845	29412	CC	GG	1946981000
SNP_P4_146130_29473	NW_004516210.1	Scaffold845	29473	TT	AA	1946981002
SNP_P4_146131_29805	NW_004516210.1	Scaffold845	29805	TT	CC	1946981004
SNP_P4_146132_31132	NW_004516210.1	Scaffold845	31132	TT	CC	1946981006
SNP_P4_146133_31559	NW_004516210.1	Scaffold845	31559	TT	CC	1946981008
SNP_P4_146135_32073	NW_004516210.1	Scaffold845	32073	TT	AA	1946981010
SNP_P4_146136_32085	NW_004516210.1	Scaffold845	32085	TT	GG	1946981012
SNP_P4_146138_32211	NW_004516210.1	Scaffold845	32211	CC	TT	1946981014
SNP_P4_146139_32220	NW_004516210.1	Scaffold845	32220	CC	AA	1946981016
SNP_P4_146140_32259	NW_004516210.1	Scaffold845	32259	TT	CC	1946981019
SNP_P4_146141_32268	NW_004516210.1	Scaffold845	32268	TT	CC	1946981021
SNP_P4_146142_32305	NW_004516210.1	Scaffold845	32305	TT	AA	1946981023
SNP_P4_146143_32316	NW_004516210.1	Scaffold845	32316	CC	AA	1946981025

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_146145_36268	NW_004516210.1	Scaffold845	36268	AA	GG	1946981030
SNP_P4_146146_36273	NW_004516210.1	Scaffold845	36273	CC	AA	1946981032
SNP_P4_146147_36280	NW_004516210.1	Scaffold845	36280	CC	AA	1946981034
SNP_P4_146150_39302	NW_004516210.1	Scaffold845	39302	AA	TT	1946981036
SNP_P4_146151_39304	NW_004516210.1	Scaffold845	39304	TT	CC	1946981039
SNP_P4_146156_41735	NW_004516210.1	Scaffold845	41735	AA	TT	1946981041
SNP_P4_146157_41738	NW_004516210.1	Scaffold845	41738	TT	AA	1946981043
SNP_P4_146158_41990	NW_004516210.1	Scaffold845	41990	TT	CC	1946981045
SNP_P4_146159_41991	NW_004516210.1	Scaffold845	41991	TT	AA	1946981047
SNP_P4_146160_43658	NW_004516210.1	Scaffold845	43658	GG	TT	1946981049
SNP_P4_146161_43679	NW_004516210.1	Scaffold845	43679	GG	TT	1946981051
SNP_P4_146163_44173	NW_004516210.1	Scaffold845	44173	AA	GG	1946981053
SNP_P4_146164_46358	NW_004516210.1	Scaffold845	46358	AA	TT	1946981055
SNP_P4_146165_47678	NW_004516210.1	Scaffold845	47678	AA	TT	1946981057
SNP_P4_146167_48005	NW_004516210.1	Scaffold845	48005	AA	GG	1946981059
SNP_P4_146168_48013	NW_004516210.1	Scaffold845	48013	AA	TT	1946981061
SNP_P4_146169_48041	NW_004516210.1	Scaffold845	48041	TT	CC	1946981063
SNP_P4_146171_48853	NW_004516210.1	Scaffold845	48853	AA	CC	1946981065
SNP_P4_146173_48956	NW_004516210.1	Scaffold845	48956	GG	AA	1946981067
SNP_P4_146174_51256	NW_004516210.1	Scaffold845	51256	CC	TT	1946981069
SNP_P4_146175_51302	NW_004516210.1	Scaffold845	51302	CC	TT	1946981071
SNP_P4_146176_51540	NW_004516210.1	Scaffold845	51540	CC	GG	1946981074
SNP_P4_146177_51569	NW_004516210.1	Scaffold845	51569	AA	CC	1946981076
SNP_P4_146178_51722	NW_004516210.1	Scaffold845	51722	TT	CC	1946981079
SNP_P4_146180_55061	NW_004516210.1	Scaffold845	55061	GG	AA	1946981081
SNP_P4_146181_55194	NW_004516210.1	Scaffold845	55194	AA	TT	1946981083
SNP_P4_146182_55197	NW_004516210.1	Scaffold845	55197	CC	TT	1946981086
SNP_P4_146183_55569	NW_004516210.1	Scaffold845	55569	AA	GG	1946981088
SNP_P4_146184_55968	NW_004516210.1	Scaffold845	55968	GG	TT	1946981089
SNP_P4_146185_59943	NW_004516210.1	Scaffold845	59943	CC	TT	1946981091
SNP_P4_146187_59989	NW_004516210.1	Scaffold845	59989	GG	CC	1946981094
SNP_P4_146188_60645	NW_004516210.1	Scaffold845	60645	GG	AA	1946981096
SNP_P4_146189_61826	NW_004516210.1	Scaffold845	61826	CC	AA	1946981098
SNP_P4_146190_61971	NW_004516210.1	Scaffold845	61971	GG	AA	1946981100
SNP_P4_146191_62855	NW_004516210.1	Scaffold845	62855	TT	AA	1946981102
SNP_P4_146192_62899	NW_004516210.1	Scaffold845	62899	GG	TT	1946981104
SNP_P4_146193_63110	NW_004516210.1	Scaffold845	63110	TT	GG	1946981106
SNP_P4_146194_63114	NW_004516210.1	Scaffold845	63114	GG	AA	1946981108
SNP_P4_146195_63115	NW_004516210.1	Scaffold845	63115	TT	CC	1946981110
SNP_P4_146196_63180	NW_004516210.1	Scaffold845	63180	TT	CC	1946981112
SNP_P4_146197_63218	NW_004516210.1	Scaffold845	63218	AA	TT	1946981114

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_146199_63250	NW_004516210.1	Scaffold845	63250	GG	AA	1946981118
SNP_P4_146200_63253	NW_004516210.1	Scaffold845	63253	AA	TT	1946981120
SNP_P4_146201_63270	NW_004516210.1	Scaffold845	63270	CC	TT	1946981122
SNP_P4_146202_63514	NW_004516210.1	Scaffold845	63514	AA	GG	1946981124
SNP_P4_146203_63593	NW_004516210.1	Scaffold845	63593	CC	AA	1946981126
SNP_P4_146204_63594	NW_004516210.1	Scaffold845	63594	AA	GG	1946981128
SNP_P4_146206_64461	NW_004516210.1	Scaffold845	64461	TT	CC	1946981130
SNP_P4_146207_64466	NW_004516210.1	Scaffold845	64466	TT	CC	1946981132
SNP_P4_146208_64516	NW_004516210.1	Scaffold845	64516	AA	CC	1946981134
SNP_P4_146209_64539	NW_004516210.1	Scaffold845	64539	CC	AA	1946981136
SNP_P4_146210_66362	NW_004516210.1	Scaffold845	66362	CC	GG	1946981138
SNP_P4_146211_66564	NW_004516210.1	Scaffold845	66564	TT	CC	1946981140
SNP_P4_146212_66631	NW_004516210.1	Scaffold845	66631	AA	GG	1946981142
SNP_P4_146214_66984	NW_004516210.1	Scaffold845	66984	TT	AA	1946981144
SNP_P4_146215_66999	NW_004516210.1	Scaffold845	66999	TT	CC	1946981146
SNP_P4_146216_67004	NW_004516210.1	Scaffold845	67004	CC	TT	1946981148
SNP_P4_146218_69551	NW_004516210.1	Scaffold845	69551	GG	CC	1946981150
SNP_P4_146219_69614	NW_004516210.1	Scaffold845	69614	TT	CC	1946981152
SNP_P4_146220_69761	NW_004516210.1	Scaffold845	69761	AA	GG	1946981154
SNP_P4_146221_70057	NW_004516210.1	Scaffold845	70057	AA	GG	1946981156
SNP_P4_146222_70916	NW_004516210.1	Scaffold845	70916	CC	AA	1946981158
SNP_P4_146223_71950	NW_004516210.1	Scaffold845	71950	AA	TT	1946981160
SNP_P4_146224_71993	NW_004516210.1	Scaffold845	71993	CC	AA	1946981162
SNP_P4_146225_75494	NW_004516210.1	Scaffold845	75494	TT	CC	1946981164
SNP_P4_146226_76337	NW_004516210.1	Scaffold845	76337	AA	CC	1946981166
SNP_P4_146227_76738	NW_004516210.1	Scaffold845	76738	TT	CC	1946981168
SNP_P4_146228_80987	NW_004516210.1	Scaffold845	80987	TT	AA	1946981170
SNP_P4_146229_80998	NW_004516210.1	Scaffold845	80998	GG	AA	1946981172
SNP_P4_146230_81179	NW_004516210.1	Scaffold845	81179	GG	AA	1946981174
SNP_P4_146231_81613	NW_004516210.1	Scaffold845	81613	AA	CC	1946981176
SNP_P4_146232_81614	NW_004516210.1	Scaffold845	81614	TT	AA	1946981178
SNP_P4_146233_81663	NW_004516210.1	Scaffold845	81663	CC	TT	1946981180
SNP_P4_146234_81791	NW_004516210.1	Scaffold845	81791	TT	CC	1946981182
SNP_P4_146236_81921	NW_004516210.1	Scaffold845	81921	GG	AA	1946981184
SNP_P4_146237_81969	NW_004516210.1	Scaffold845	81969	CC	TT	1946981186
SNP_P4_146238_81990	NW_004516210.1	Scaffold845	81990	AA	GG	1946981188
SNP_P4_146239_81991	NW_004516210.1	Scaffold845	81991	CC	TT	1946981190
SNP_P4_146240_82013	NW_004516210.1	Scaffold845	82013	TT	GG	1946981192
SNP_P4_146241_82147	NW_004516210.1	Scaffold845	82147	TT	GG	1946981194
SNP_P4_146242_82176	NW_004516210.1	Scaffold845	82176	CC	TT	1946981196
SNP_P4_146243_82259	NW_004516210.1	Scaffold845	82259	TT	CC	1946981198

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_146245_82319	NW_004516210.1	Scaffold845	82319	TT	GG	1946981203
SNP_P4_146246_82333	NW_004516210.1	Scaffold845	82333	TT	CC	1946981205
SNP_P4_146247_82337	NW_004516210.1	Scaffold845	82337	AA	TT	1946981207
SNP_P4_146249_84384	NW_004516210.1	Scaffold845	84384	GG	TT	1946981209
SNP_P4_146250_84660	NW_004516210.1	Scaffold845	84660	CC	AA	1946981211
SNP_P4_146251_84834	NW_004516210.1	Scaffold845	84834	GG	AA	1946981213
SNP_P4_146252_85453	NW_004516210.1	Scaffold845	85453	GG	CC	1946981215
SNP_P4_146253_85652	NW_004516210.1	Scaffold845	85652	CC	TT	1946981218
SNP_P4_146254_85688	NW_004516210.1	Scaffold845	85688	AA	CC	1946981220
SNP_P4_146255_85696	NW_004516210.1	Scaffold845	85696	AA	GG	1946981222
SNP_P4_146256_86184	NW_004516210.1	Scaffold845	86184	AA	TT	1946981224
SNP_P4_146257_86512	NW_004516210.1	Scaffold845	86512	TT	CC	1946981226
SNP_P4_146258_87283	NW_004516210.1	Scaffold845	87283	AA	GG	1946981227
SNP_P4_146259_87550	NW_004516210.1	Scaffold845	87550	TT	CC	1946981229
SNP_P4_146260_87565	NW_004516210.1	Scaffold845	87565	TT	AA	1946981231
SNP_P4_146261_88312	NW_004516210.1	Scaffold845	88312	CC	GG	1946981233
SNP_P4_146263_95132	NW_004516210.1	Scaffold845	95132	GG	AA	1946981235
SNP_P4_146264_95260	NW_004516210.1	Scaffold845	95260	TT	CC	1946981237
SNP_P4_146265_96242	NW_004516210.1	Scaffold845	96242	GG	AA	1946981239
SNP_P4_146266_100646	NW_004516210.1	Scaffold845	100646	TT	CC	1946981241
SNP_P4_146267_100789	NW_004516210.1	Scaffold845	100789	GG	AA	1946981243
SNP_P4_146268_100879	NW_004516210.1	Scaffold845	100879	CC	TT	1946981245
SNP_P4_146269_101068	NW_004516210.1	Scaffold845	101068	CC	TT	1946981247
SNP_P4_146270_101199	NW_004516210.1	Scaffold845	101199	AA	GG	1946981249
SNP_P4_146271_101347	NW_004516210.1	Scaffold845	101347	GG	AA	1946981251
SNP_P4_146272_101670	NW_004516210.1	Scaffold845	101670	GG	TT	1946981253
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SNP_P4_146275_102453	NW_004516210.1	Scaffold845	102453	AA	CC	1946981257
SNP_P4_146276_102579	NW_004516210.1	Scaffold845	102579	AA	GG	1946981259
SNP_P4_146277_102818	NW_004516210.1	Scaffold845	102818	AA	TT	1946981261
SNP_P4_146278_102990	NW_004516210.1	Scaffold845	102990	GG	AA	1946981263
SNP_P4_146281_103676	NW_004516210.1	Scaffold845	103676	TT	AA	1946981265
SNP_P4_146282_103739	NW_004516210.1	Scaffold845	103739	AA	TT	1946981267
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SNP_P4_146286_104138	NW_004516210.1	Scaffold845	104138	AA	GG	1946981276
SNP_P4_146287_104144	NW_004516210.1	Scaffold845	104144	TT	GG	1946981278
SNP_P4_146288_104146	NW_004516210.1	Scaffold845	104146	GG	AA	1946981280
SNP_P4_146289_104148	NW_004516210.1	Scaffold845	104148	AA	GG	1946981281
SNP_P4_146290_104159	NW_004516210.1	Scaffold845	104159	CC	TT	1946981283

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_146293_104267	NW_004516210.1	Scaffold845	104267	CC	GG	1946981289
SNP_P4_146294_104525	NW_004516210.1	Scaffold845	104525	CC	TT	1946981291
SNP_P4_146295_105792	NW_004516210.1	Scaffold845	105792	CC	GG	1946981293
SNP_P4_146296_105896	NW_004516210.1	Scaffold845	105896	AA	GG	1946981295
SNP_P4_146297_106176	NW_004516210.1	Scaffold845	106176	GG	TT	1946981297
SNP_P4_146298_106222	NW_004516210.1	Scaffold845	106222	AA	GG	1946981299
SNP_P4_146299_106240	NW_004516210.1	Scaffold845	106240	CC	GG	1946981301
SNP_P4_146300_110327	NW_004516210.1	Scaffold845	110327	GG	AA	1946981303
SNP_P4_146301_110587	NW_004516210.1	Scaffold845	110587	GG	AA	1946981305
SNP_P4_146302_111157	NW_004516210.1	Scaffold845	111157	GG	TT	1946981307
SNP_P4_146303_111219	NW_004516210.1	Scaffold845	111219	GG	AA	1946981309
SNP_P4_146305_111334	NW_004516210.1	Scaffold845	111334	GG	AA	1946981311
SNP_P4_146306_111393	NW_004516210.1	Scaffold845	111393	TT	AA	1946981313
SNP_P4_146307_112253	NW_004516210.1	Scaffold845	112253	TT	GG	1946981315
SNP_P4_146308_112609	NW_004516210.1	Scaffold845	112609	TT	CC	1946981317
SNP_P4_146309_113067	NW_004516210.1	Scaffold845	113067	TT	AA	1946981319
SNP_P4_146310_114319	NW_004516210.1	Scaffold845	114319	GG	TT	1946981321
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SNP_P4_146315_116273	NW_004516210.1	Scaffold845	116273	AA	GG	1946981327
SNP_P4_146316_116275	NW_004516210.1	Scaffold845	116275	AA	TT	1946981329
SNP_P4_146317_116911	NW_004516210.1	Scaffold845	116911	TT	AA	1946981331
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SNP_P4_146325_126519	NW_004516210.1	Scaffold845	126519	AA	GG	1946981345
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SNP_P4_146332_130101	NW_004516210.1	Scaffold845	130101	CC	AA	1946981357
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SNP_P4_146334_132645	NW_004516210.1	Scaffold845	132645	TT	CC	1946981361
SNP_P4_146335_132669	NW_004516210.1	Scaffold845	132669	CC	TT	1946981363
SNP_P4_146337_132794	NW_004516210.1	Scaffold845	132794	GG	TT	1946981365
SNP_P4_146339_132968	NW_004516210.1	Scaffold845	132968	CC	TT	1946981367

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_146343_133339	NW_004516210.1	Scaffold845	133339	AA	GG	1946981373
SNP_P4_146344_133516	NW_004516210.1	Scaffold845	133516	CC	TT	1946981376
SNP_P4_146345_133523	NW_004516210.1	Scaffold845	133523	CC	AA	1946981377
SNP_P4_146346_133531	NW_004516210.1	Scaffold845	133531	GG	AA	1946981379
SNP_P4_146347_133554	NW_004516210.1	Scaffold845	133554	CC	AA	1946981382
SNP_P4_146348_133560	NW_004516210.1	Scaffold845	133560	CC	TT	1946981384
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SNP_P4_146353_135152	NW_004516210.1	Scaffold845	135152	GG	AA	1946981390
SNP_P4_146354_138050	NW_004516210.1	Scaffold845	138050	AA	GG	1946981392
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SNP_P4_146356_140342	NW_004516210.1	Scaffold845	140342	GG	AA	1946981396
SNP_P4_146357_140372	NW_004516210.1	Scaffold845	140372	GG	CC	1946981398
SNP_P4_146358_140906	NW_004516210.1	Scaffold845	140906	TT	CC	1946981400
SNP_P4_146359_141012	NW_004516210.1	Scaffold845	141012	AA	CC	1946981402
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SNP_P4_146362_144099	NW_004516210.1	Scaffold845	144099	GG	AA	1946981407
SNP_P4_146363_146829	NW_004516210.1	Scaffold845	146829	AA	GG	1946981409
SNP_P4_146365_149315	NW_004516210.1	Scaffold845	149315	TT	AA	1946981411
SNP_P4_146366_149333	NW_004516210.1	Scaffold845	149333	AA	GG	1946981413
SNP_P4_146367_149336	NW_004516210.1	Scaffold845	149336	GG	TT	1946981415
SNP_P4_146368_150366	NW_004516210.1	Scaffold845	150366	AA	TT	1946981416
SNP_P4_146369_150867	NW_004516210.1	Scaffold845	150867	GG	AA	1946981418
SNP_P4_146370_150918	NW_004516210.1	Scaffold845	150918	TT	GG	1946981420
SNP_P4_146371_150957	NW_004516210.1	Scaffold845	150957	AA	GG	1946981423
SNP_P4_146372_151905	NW_004516210.1	Scaffold845	151905	GG	AA	1946981424
SNP_P4_146373_152001	NW_004516210.1	Scaffold845	152001	TT	CC	1946981426
SNP_P4_146374_157894	NW_004516210.1	Scaffold845	157894	CC	TT	1946981428
SNP_P4_146375_157987	NW_004516210.1	Scaffold845	157987	TT	AA	1946981430
SNP_P4_146376_162499	NW_004516210.1	Scaffold845	162499	CC	AA	1946981432
SNP_P4_146378_162853	NW_004516210.1	Scaffold845	162853	AA	GG	1946981434
SNP_P4_146379_163122	NW_004516210.1	Scaffold845	163122	CC	TT	1946981436
SNP_P4_146380_163437	NW_004516210.1	Scaffold845	163437	TT	GG	1946981438
SNP_P4_146381_163463	NW_004516210.1	Scaffold845	163463	CC	TT	1946981440
SNP_P4_146382_164810	NW_004516210.1	Scaffold845	164810	AA	GG	1946981442
SNP_P4_146383_165841	NW_004516210.1	Scaffold845	165841	CC	TT	1946981444
SNP_P4_146384_165843	NW_004516210.1	Scaffold845	165843	CC	TT	1946981446
SNP_P4_146385_168801	NW_004516210.1	Scaffold845	168801	GG	AA	1946981448
SNP_P4_146386_169541	NW_004516210.1	Scaffold845	169541	TT	CC	1946981450
SNP_P4_146389_170646	NW_004516210.1	Scaffold845	170646	AA	TT	1946981452

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_146390_170652	NW_004516210.1	Scaffold845	170652	CC	TT	1946981454
SNP_P4_146391_171530	NW_004516210.1	Scaffold845	171530	GG	CC	1946981456
SNP_P4_146393_171895	NW_004516210.1	Scaffold845	171895	CC	TT	1946981458
SNP_P4_146394_171959	NW_004516210.1	Scaffold845	171959	AA	CC	1946981460
SNP_P4_146395_172289	NW_004516210.1	Scaffold845	172289	GG	CC	1946981462
SNP_P4_146396_172303	NW_004516210.1	Scaffold845	172303	CC	TT	1946981464
SNP_P4_146397_173314	NW_004516210.1	Scaffold845	173314	CC	AA	1946981466
SNP_P4_146398_173682	NW_004516210.1	Scaffold845	173682	CC	GG	1946981468
SNP_P4_146399_173697	NW_004516210.1	Scaffold845	173697	CC	GG	1946981470
SNP_P4_146400_173965	NW_004516210.1	Scaffold845	173965	AA	GG	1946981472
SNP_P4_146401_173976	NW_004516210.1	Scaffold845	173976	AA	GG	1946981474
SNP_P4_146403_175181	NW_004516210.1	Scaffold845	175181	CC	TT	1946981477
SNP_P4_146404_175238	NW_004516210.1	Scaffold845	175238	GG	TT	1946981479
SNP_P4_146405_175418	NW_004516210.1	Scaffold845	175418	GG	AA	1946981481
SNP_P4_146406_175421	NW_004516210.1	Scaffold845	175421	CC	AA	1946981483
SNP_P4_146408_199795	NW_004516210.1	Scaffold845	199795	AA	GG	1946981485
SNP_P4_146409_212781	NW_004516210.1	Scaffold845	212781	GG	AA	1946981487
SNP_P4_146410_223257	NW_004516210.1	Scaffold845	223257	AA	CC	1946981489
SNP_P4_146411_230592	NW_004516210.1	Scaffold845	230592	GG	AA	1946981491
SNP_P4_146412_230594	NW_004516210.1	Scaffold845	230594	GG	CC	1946981493
SNP_P4_146413_230609	NW_004516210.1	Scaffold845	230609	GG	TT	1946981496
SNP_P4_146414_230615	NW_004516210.1	Scaffold845	230615	CC	GG	1946981497
SNP_P4_146415_231000	NW_004516210.1	Scaffold845	231000	TT	GG	1946981499
SNP_P4_146416_231880	NW_004516210.1	Scaffold845	231880	GG	AA	1946981501
SNP_P4_146417_245481	NW_004516210.1	Scaffold845	245481	CC	AA	1946981503
SNP_P4_146418_257721	NW_004516210.1	Scaffold845	257721	GG	AA	1946981505
SNP_P4_146419_259948	NW_004516210.1	Scaffold845	259948	GG	AA	1946981507
SNP_P4_146420_264642	NW_004516210.1	Scaffold845	264642	CC	TT	1946981509
SNP_P4_146421_266194	NW_004516210.1	Scaffold845	266194	CC	TT	1946981511
SNP_P4_146422_266217	NW_004516210.1	Scaffold845	266217	TT	CC	1946981513
SNP_P4_146423_266232	NW_004516210.1	Scaffold845	266232	AA	GG	1946981515
SNP_P4_146424_266246	NW_004516210.1	Scaffold845	266246	AA	GG	1946981517
SNP_P4_146425_266267	NW_004516210.1	Scaffold845	266267	CC	TT	1946981519
SNP_P4_146428_292550	NW_004516210.1	Scaffold845	292550	AA	TT	1946981521
SNP_P4_146429_312319	NW_004516210.1	Scaffold845	312319	CC	TT	1946981523
SNP_P4_146431_330030	NW_004516210.1	Scaffold845	330030	CC	TT	1946981525
SNP_P4_146432_330092	NW_004516210.1	Scaffold845	330092	AA	GG	1946981527
SNP_P4_146433_330559	NW_004516210.1	Scaffold845	330559	CC	TT	1946981529
SNP_P4_146434_331003	NW_004516210.1	Scaffold845	331003	TT	CC	1946981531
SNP_P4_146435_331008	NW_004516210.1	Scaffold845	331008	TT	CC	1946981533
SNP_P4_146437_331886	NW_004516210.1	Scaffold845	331886	AA	GG	1946981535
SNP_P4_146439_331991	NW_004516210.1	Scaffold845	331991	CC	GG	1946981537

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_146441_332193	NW_004516210.1	Scaffold845	332193	TT	CC	1946981541
SNP_P4_146442_332243	NW_004516210.1	Scaffold845	332243	GG	CC	1946981543
SNP_P4_146443_332518	NW_004516210.1	Scaffold845	332518	TT	GG	1946981545
SNP_P4_146444_334986	NW_004516210.1	Scaffold845	334986	GG	AA	1946981547
SNP_P4_146445_335165	NW_004516210.1	Scaffold845	335165	TT	GG	1946981550
SNP_P4_146446_335214	NW_004516210.1	Scaffold845	335214	GG	CC	1946981552
SNP_P4_146447_335486	NW_004516210.1	Scaffold845	335486	AA	GG	1946981554
SNP_P4_146448_335574	NW_004516210.1	Scaffold845	335574	CC	TT	1946981556
SNP_P4_146449_347505	NW_004516210.1	Scaffold845	347505	AA	GG	1946981558
SNP_P4_146450_347628	NW_004516210.1	Scaffold845	347628	CC	TT	1946981560
SNP_P4_146451_347639	NW_004516210.1	Scaffold845	347639	AA	GG	1946981562
SNP_P4_146452_356685	NW_004516210.1	Scaffold845	356685	AA	CC	1946981564
SNP_P4_146454_362843	NW_004516210.1	Scaffold845	362843	TT	CC	1946981566
SNP_P4_146455_946	NW_004516211.1	Scaffold847	946	GG	TT	1946981568
SNP_P4_146456_31676	NW_004516211.1	Scaffold847	31676	CC	TT	1946981569
SNP_P4_146457_31706	NW_004516211.1	Scaffold847	31706	TT	CC	1946981571
SNP_P4_146458_32094	NW_004516211.1	Scaffold847	32094	GG	AA	1946981573
SNP_P4_146459_32231	NW_004516211.1	Scaffold847	32231	AA	TT	1946981575
SNP_P4_146460_75571	NW_004516211.1	Scaffold847	75571	TT	CC	1946981577
SNP_P4_146461_75629	NW_004516211.1	Scaffold847	75629	GG	AA	1946981579
SNP_P4_146462_75977	NW_004516211.1	Scaffold847	75977	TT	CC	1946981581
SNP_P4_146463_76016	NW_004516211.1	Scaffold847	76016	GG	AA	1946981583
SNP_P4_146464_76023	NW_004516211.1	Scaffold847	76023	CC	TT	1946981585
SNP_P4_146465_76085	NW_004516211.1	Scaffold847	76085	CC	TT	1946981587
SNP_P4_146466_76100	NW_004516211.1	Scaffold847	76100	TT	AA	1946981589
SNP_P4_146467_76109	NW_004516211.1	Scaffold847	76109	CC	TT	1946981591
SNP_P4_146468_82561	NW_004516211.1	Scaffold847	82561	TT	CC	1946981593
SNP_P4_146469_82579	NW_004516211.1	Scaffold847	82579	TT	CC	1946981596
SNP_P4_146470_82627	NW_004516211.1	Scaffold847	82627	GG	TT	1946981597
SNP_P4_146471_91512	NW_004516211.1	Scaffold847	91512	TT	GG	1946981599
SNP_P4_146472_113644	NW_004516211.1	Scaffold847	113644	CC	TT	1946981602
SNP_P4_146473_117214	NW_004516211.1	Scaffold847	117214	CC	TT	1946981603
SNP_P4_146474_120950	NW_004516211.1	Scaffold847	120950	AA	GG	1946981605
SNP_P4_146475_120952	NW_004516211.1	Scaffold847	120952	AA	GG	1946981608
SNP_P4_146477_130062	NW_004516211.1	Scaffold847	130062	GG	AA	1946981610
SNP_P4_146478_145576	NW_004516211.1	Scaffold847	145576	GG	TT	1946981612
SNP_P4_146479_154093	NW_004516211.1	Scaffold847	154093	GG	AA	1946981614
SNP_P4_146480_162830	NW_004516211.1	Scaffold847	162830	TT	AA	1946981616
SNP_P4_146481_169010	NW_004516211.1	Scaffold847	169010	CC	TT	1946981618
SNP_P4_146482_232146	NW_004516211.1	Scaffold847	232146	CC	TT	1946981620
SNP_P4_146484_247448	NW_004516211.1	Scaffold847	247448	TT	CC	1946981623

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_146486_248112	NW_004516211.1	Scaffold847	248112	GG	AA	1946981627
SNP_P4_146487_251623	NW_004516211.1	Scaffold847	251623	TT	CC	1946981629
SNP_P4_146488_289404	NW_004516211.1	Scaffold847	289404	AA	CC	1946981632
SNP_P4_146489_289819	NW_004516211.1	Scaffold847	289819	AA	GG	1946981634
SNP_P4_146490_290073	NW_004516211.1	Scaffold847	290073	AA	GG	1946981636
SNP_P4_146491_290109	NW_004516211.1	Scaffold847	290109	GG	AA	1946981638
SNP_P4_146492_301619	NW_004516211.1	Scaffold847	301619	TT	AA	1946981640
SNP_P4_146493_340409	NW_004516211.1	Scaffold847	340409	AA	GG	1946981642
SNP_P4_146494_340435	NW_004516211.1	Scaffold847	340435	CC	TT	1946981643
SNP_P4_146495_343210	NW_004516211.1	Scaffold847	343210	CC	TT	1946981645
SNP_P4_146496_347362	NW_004516211.1	Scaffold847	347362	GG	AA	1946981648
SNP_P4_146497_347406	NW_004516211.1	Scaffold847	347406	GG	CC	1946981650
SNP_P4_146498_4121	NW_004516212.1	Scaffold848	4121	GG	AA	1946981652
SNP_P4_146499_6458	NW_004516212.1	Scaffold848	6458	AA	GG	1946981654
SNP_P4_146500_23238	NW_004516212.1	Scaffold848	23238	AA	GG	1946981656
SNP_P4_146501_23579	NW_004516212.1	Scaffold848	23579	TT	CC	1946981657
SNP_P4_146502_23593	NW_004516212.1	Scaffold848	23593	CC	TT	1946981659
SNP_P4_146503_23760	NW_004516212.1	Scaffold848	23760	GG	AA	1946981661
SNP_P4_146504_23811	NW_004516212.1	Scaffold848	23811	AA	TT	1946981663
SNP_P4_146505_23934	NW_004516212.1	Scaffold848	23934	AA	TT	1946981665
SNP_P4_146506_23937	NW_004516212.1	Scaffold848	23937	CC	TT	1946981667
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SNP_P4_146509_24161	NW_004516212.1	Scaffold848	24161	CC	TT	1946981671
SNP_P4_146510_24201	NW_004516212.1	Scaffold848	24201	TT	CC	1946981673
SNP_P4_146511_45670	NW_004516212.1	Scaffold848	45670	TT	CC	1946981675
SNP_P4_146512_64050	NW_004516212.1	Scaffold848	64050	GG	CC	1946981678
SNP_P4_146513_75730	NW_004516212.1	Scaffold848	75730	CC	GG	1946981680
SNP_P4_146514_75739	NW_004516212.1	Scaffold848	75739	CC	TT	1946981682
SNP_P4_146515_102239	NW_004516212.1	Scaffold848	102239	CC	GG	1946981683
SNP_P4_146517_155978	NW_004516212.1	Scaffold848	155978	TT	AA	1946981685
SNP_P4_146518_180726	NW_004516212.1	Scaffold848	180726	AA	CC	1946981687
SNP_P4_146519_180803	NW_004516212.1	Scaffold848	180803	AA	GG	1946981689
SNP_P4_146521_234587	NW_004516212.1	Scaffold848	234587	TT	GG	1946981691
SNP_P4_146522_1830	NW_004516213.1	Scaffold850	1830	GG	TT	1946981693
SNP_P4_146523_472	NW_004516215.1	Scaffold853	472	TT	AA	1946981695
SNP_P4_146524_11577	NW_004516215.1	Scaffold853	11577	CC	TT	1946981697
SNP_P4_146525_11668	NW_004516215.1	Scaffold853	11668	CC	TT	1946981699
SNP_P4_146526_11669	NW_004516215.1	Scaffold853	11669	TT	AA	1946981701
SNP_P4_146527_5461	NW_004516216.1	Scaffold854	5461	GG	TT	1946981703
SNP_P4_146528_5474	NW_004516216.1	Scaffold854	5474	GG	AA	1946981705
SNP_P4_146529_5478	NW_004516216.1	Scaffold854	5478	GG	AA	1946981707

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_146531_17397	NW_004516217.1	Scaffold855	17397	CC	TT	1946981711
SNP_P4_146532_26782	NW_004516217.1	Scaffold855	26782	GG	AA	1946981713
SNP_P4_146533_27078	NW_004516217.1	Scaffold855	27078	TT	CC	1946981715
SNP_P4_146535_30940	NW_004516217.1	Scaffold855	30940	TT	AA	1946981716
SNP_P4_146536_30944	NW_004516217.1	Scaffold855	30944	CC	TT	1946981718
SNP_P4_146537_30980	NW_004516217.1	Scaffold855	30980	TT	CC	1946981720
SNP_P4_146538_31035	NW_004516217.1	Scaffold855	31035	AA	TT	1946981722
SNP_P4_146539_31043	NW_004516217.1	Scaffold855	31043	AA	GG	1946981724
SNP_P4_146540_31066	NW_004516217.1	Scaffold855	31066	TT	CC	1946981726
SNP_P4_146541_31084	NW_004516217.1	Scaffold855	31084	GG	CC	1946981728
SNP_P4_146542_31111	NW_004516217.1	Scaffold855	31111	CC	TT	1946981731
SNP_P4_146543_31124	NW_004516217.1	Scaffold855	31124	GG	TT	1946981733
SNP_P4_146544_31143	NW_004516217.1	Scaffold855	31143	AA	GG	1946981735
SNP_P4_146546_31223	NW_004516217.1	Scaffold855	31223	TT	CC	1946981737
SNP_P4_146547_31228	NW_004516217.1	Scaffold855	31228	CC	TT	1946981739
SNP_P4_146548_31264	NW_004516217.1	Scaffold855	31264	GG	CC	1946981741
SNP_P4_146549_31272	NW_004516217.1	Scaffold855	31272	CC	TT	1946981743
SNP_P4_146550_31289	NW_004516217.1	Scaffold855	31289	AA	GG	1946981745
SNP_P4_146551_31304	NW_004516217.1	Scaffold855	31304	AA	CC	1946981747
SNP_P4_146552_31335	NW_004516217.1	Scaffold855	31335	CC	TT	1946981749
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SNP_P4_146556_31555	NW_004516217.1	Scaffold855	31555	TT	CC	1946981756
SNP_P4_146557_31696	NW_004516217.1	Scaffold855	31696	GG	TT	1946981758
SNP_P4_146558_31740	NW_004516217.1	Scaffold855	31740	CC	AA	1946981760
SNP_P4_146559_31753	NW_004516217.1	Scaffold855	31753	GG	TT	1946981762
SNP_P4_146560_31810	NW_004516217.1	Scaffold855	31810	TT	AA	1946981763
SNP_P4_146561_44238	NW_004516217.1	Scaffold855	44238	AA	GG	1946981766
SNP_P4_146562_45667	NW_004516217.1	Scaffold855	45667	TT	CC	1946981768
SNP_P4_146563_45795	NW_004516217.1	Scaffold855	45795	AA	TT	1946981770
SNP_P4_146564_20801	NW_004516218.1	Scaffold856	20801	TT	CC	1946981771
SNP_P4_146565_3649	NW_004516219.1	Scaffold857	3649	TT	CC	1946981773
SNP_P4_146566_3842	NW_004516219.1	Scaffold857	3842	GG	TT	1946981775
SNP_P4_146567_4117	NW_004516219.1	Scaffold857	4117	AA	GG	1946981777
SNP_P4_146568_4149	NW_004516219.1	Scaffold857	4149	TT	CC	1946981779
SNP_P4_146570_24221	NW_004516219.1	Scaffold857	24221	GG	AA	1946981782
SNP_P4_146572_24415	NW_004516219.1	Scaffold857	24415	GG	TT	1946981784
SNP_P4_146573_24420	NW_004516219.1	Scaffold857	24420	AA	TT	1946981786
SNP_P4_146574_24454	NW_004516219.1	Scaffold857	24454	TT	GG	1946981788
SNP_P4_146575_24455	NW_004516219.1	Scaffold857	24455	AA	GG	1946981790
SNP_P4_146576_24528	NW_004516219.1	Scaffold857	24528	AA	GG	1946981792

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_146578_26579	NW_004516219.1	Scaffold857	26579	TT	CC	1946981796
SNP_P4_146579_26613	NW_004516219.1	Scaffold857	26613	TT	AA	1946981798
SNP_P4_146580_26928	NW_004516219.1	Scaffold857	26928	TT	GG	1946981800
SNP_P4_146581_27081	NW_004516219.1	Scaffold857	27081	TT	GG	1946981802
SNP_P4_146582_19302	NW_004516221.1	Scaffold859	19302	CC	TT	1946981805
SNP_P4_146585_26063	NW_004516221.1	Scaffold859	26063	CC	AA	1946981807
SNP_P4_146586_26131	NW_004516221.1	Scaffold859	26131	AA	GG	1946981809
SNP_P4_146587_26136	NW_004516221.1	Scaffold859	26136	GG	CC	1946981811
SNP_P4_146589_27469	NW_004516221.1	Scaffold859	27469	GG	TT	1946981813
SNP_P4_146590_27484	NW_004516221.1	Scaffold859	27484	GG	AA	1946981815
SNP_P4_146591_27516	NW_004516221.1	Scaffold859	27516	AA	GG	1946981817
SNP_P4_146593_63280	NW_004516221.1	Scaffold859	63280	GG	AA	1946981819
SNP_P4_146594_63281	NW_004516221.1	Scaffold859	63281	AA	TT	1946981821
SNP_P4_146595_65827	NW_004516221.1	Scaffold859	65827	TT	CC	1946981823
SNP_P4_146596_68479	NW_004516221.1	Scaffold859	68479	GG	TT	1946981825
SNP_P4_146597_68854	NW_004516221.1	Scaffold859	68854	CC	TT	1946981827
SNP_P4_146598_68859	NW_004516221.1	Scaffold859	68859	AA	GG	1946981829
SNP_P4_146599_85448	NW_004516221.1	Scaffold859	85448	TT	GG	1946981831
SNP_P4_146600_85673	NW_004516221.1	Scaffold859	85673	GG	AA	1946981833
SNP_P4_146601_85810	NW_004516221.1	Scaffold859	85810	GG	TT	1946981835
SNP_P4_146602_85816	NW_004516221.1	Scaffold859	85816	TT	CC	1946981837
SNP_P4_146604_86667	NW_004516221.1	Scaffold859	86667	GG	AA	1946981839
SNP_P4_146605_86815	NW_004516221.1	Scaffold859	86815	AA	CC	1946981841
SNP_P4_146607_120313	NW_004516221.1	Scaffold859	120313	AA	TT	1946981844
SNP_P4_146608_3501	NW_004516222.1	Scaffold860	3501	CC	AA	1946981846
SNP_P4_146609_3523	NW_004516222.1	Scaffold860	3523	GG	AA	1946981848
SNP_P4_146610_3546	NW_004516222.1	Scaffold860	3546	AA	CC	1946981850
SNP_P4_146611_3588	NW_004516222.1	Scaffold860	3588	TT	CC	1946981852
SNP_P4_146612_3666	NW_004516222.1	Scaffold860	3666	CC	TT	1946981854
SNP_P4_146613_3870	NW_004516222.1	Scaffold860	3870	AA	GG	1946981856
SNP_P4_146614_4197	NW_004516222.1	Scaffold860	4197	GG	CC	1946981858
SNP_P4_146615_10639	NW_004516222.1	Scaffold860	10639	AA	GG	1946981860
SNP_P4_146616_2664	NW_004516223.1	Scaffold861	2664	AA	CC	1946981862
SNP_P4_146617_2885	NW_004516223.1	Scaffold861	2885	CC	TT	1946981864
SNP_P4_146618_170	NW_004516224.1	Scaffold862	170	AA	GG	1946981866
SNP_P4_146619_196	NW_004516224.1	Scaffold862	196	CC	TT	1946981868
SNP_P4_146620_309	NW_004516224.1	Scaffold862	309	AA	GG	1946981870
SNP_P4_146621_389	NW_004516224.1	Scaffold862	389	TT	AA	1946981872
SNP_P4_146622_517	NW_004516224.1	Scaffold862	517	CC	AA	1946981874
SNP_P4_146623_547	NW_004516224.1	Scaffold862	547	CC	AA	1946981876
SNP_P4_146624_18673	NW_004516224.1	Scaffold862	18673	GG	AA	1946981878

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_146626_19421	NW_004516224.1	Scaffold862	19421	AA	GG	1946981882
SNP_P4_146627_22403	NW_004516224.1	Scaffold862	22403	CC	AA	1946981884
SNP_P4_146628_22699	NW_004516224.1	Scaffold862	22699	AA	GG	1946981886
SNP_P4_146629_22726	NW_004516224.1	Scaffold862	22726	AA	TT	1946981888
SNP_P4_146630_22787	NW_004516224.1	Scaffold862	22787	AA	CC	1946981890
SNP_P4_146631_23160	NW_004516224.1	Scaffold862	23160	GG	AA	1946981892
SNP_P4_146632_27948	NW_004516224.1	Scaffold862	27948	TT	GG	1946981894
SNP_P4_146633_27951	NW_004516224.1	Scaffold862	27951	TT	CC	1946981896
SNP_P4_146634_27962	NW_004516224.1	Scaffold862	27962	GG	TT	1946981898
SNP_P4_146635_27977	NW_004516224.1	Scaffold862	27977	AA	CC	1946981900
SNP_P4_146636_28164	NW_004516224.1	Scaffold862	28164	AA	GG	1946981902
SNP_P4_146637_28418	NW_004516224.1	Scaffold862	28418	TT	AA	1946981904
SNP_P4_146638_28421	NW_004516224.1	Scaffold862	28421	GG	AA	1946981906
SNP_P4_146639_28926	NW_004516224.1	Scaffold862	28926	AA	GG	1946981908
SNP_P4_146640_28992	NW_004516224.1	Scaffold862	28992	AA	CC	1946981910
SNP_P4_146641_29004	NW_004516224.1	Scaffold862	29004	TT	CC	1946981912
SNP_P4_146642_29013	NW_004516224.1	Scaffold862	29013	GG	TT	1946981914
SNP_P4_146643_29141	NW_004516224.1	Scaffold862	29141	TT	CC	1946981916
SNP_P4_146644_29169	NW_004516224.1	Scaffold862	29169	AA	GG	1946981918
SNP_P4_146645_29171	NW_004516224.1	Scaffold862	29171	GG	CC	1946981920
SNP_P4_146646_29186	NW_004516224.1	Scaffold862	29186	AA	CC	1946981922
SNP_P4_146647_29191	NW_004516224.1	Scaffold862	29191	CC	AA	1946981924
SNP_P4_146648_32490	NW_004516224.1	Scaffold862	32490	TT	CC	1946981926
SNP_P4_146649_32501	NW_004516224.1	Scaffold862	32501	AA	GG	1946981929
SNP_P4_146650_32509	NW_004516224.1	Scaffold862	32509	TT	CC	1946981931
SNP_P4_146651_32551	NW_004516224.1	Scaffold862	32551	AA	GG	1946981932
SNP_P4_146652_32783	NW_004516224.1	Scaffold862	32783	AA	TT	1946981934
SNP_P4_146653_32980	NW_004516224.1	Scaffold862	32980	CC	TT	1946981936
SNP_P4_146654_33166	NW_004516224.1	Scaffold862	33166	AA	CC	1946981938
SNP_P4_146655_33257	NW_004516224.1	Scaffold862	33257	TT	GG	1946981940
SNP_P4_146656_34416	NW_004516224.1	Scaffold862	34416	CC	TT	1946981942
SNP_P4_146657_34615	NW_004516224.1	Scaffold862	34615	AA	TT	1946981944
SNP_P4_146658_34747	NW_004516224.1	Scaffold862	34747	TT	GG	1946981946
SNP_P4_146659_34787	NW_004516224.1	Scaffold862	34787	GG	TT	1946981948
SNP_P4_146660_34865	NW_004516224.1	Scaffold862	34865	AA	GG	1946981950
SNP_P4_146662_35019	NW_004516224.1	Scaffold862	35019	TT	GG	1946981952
SNP_P4_146663_35026	NW_004516224.1	Scaffold862	35026	AA	GG	1946981954
SNP_P4_146664_35030	NW_004516224.1	Scaffold862	35030	GG	TT	1946981956
SNP_P4_146665_35058	NW_004516224.1	Scaffold862	35058	CC	TT	1946981958
SNP_P4_146666_35059	NW_004516224.1	Scaffold862	35059	TT	CC	1946981960
SNP_P4_146667_35060	NW_004516224.1	Scaffold862	35060	GG	TT	1946981962

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_146669_35221	NW_004516224.1	Scaffold862	35221	CC	TT	1946981966
SNP_P4_146670_35233	NW_004516224.1	Scaffold862	35233	TT	AA	1946981968
SNP_P4_146671_35266	NW_004516224.1	Scaffold862	35266	CC	TT	1946981970
SNP_P4_146672_35276	NW_004516224.1	Scaffold862	35276	TT	CC	1946981972
SNP_P4_146673_35280	NW_004516224.1	Scaffold862	35280	AA	CC	1946981974
SNP_P4_146674_35372	NW_004516224.1	Scaffold862	35372	TT	GG	1946981976
SNP_P4_146675_35862	NW_004516224.1	Scaffold862	35862	GG	AA	1946981979
SNP_P4_146676_35917	NW_004516224.1	Scaffold862	35917	TT	CC	1946981981
SNP_P4_146677_35940	NW_004516224.1	Scaffold862	35940	AA	GG	1946981983
SNP_P4_146678_35943	NW_004516224.1	Scaffold862	35943	CC	TT	1946981985
SNP_P4_146679_36002	NW_004516224.1	Scaffold862	36002	CC	TT	1946981987
SNP_P4_146680_36078	NW_004516224.1	Scaffold862	36078	TT	AA	1946981989
SNP_P4_146681_36132	NW_004516224.1	Scaffold862	36132	AA	CC	1946981991
SNP_P4_146682_36137	NW_004516224.1	Scaffold862	36137	AA	TT	1946981993
SNP_P4_146683_36178	NW_004516224.1	Scaffold862	36178	AA	CC	1946981995
SNP_P4_146684_36318	NW_004516224.1	Scaffold862	36318	GG	AA	1946981997
SNP_P4_146685_36328	NW_004516224.1	Scaffold862	36328	TT	CC	1946981999
SNP_P4_146686_36330	NW_004516224.1	Scaffold862	36330	GG	TT	1946982001
SNP_P4_146687_36344	NW_004516224.1	Scaffold862	36344	GG	CC	1946982003
SNP_P4_146688_37384	NW_004516224.1	Scaffold862	37384	AA	TT	1946982005
SNP_P4_146689_41723	NW_004516224.1	Scaffold862	41723	CC	TT	1946982007
SNP_P4_146690_41724	NW_004516224.1	Scaffold862	41724	AA	CC	1946982009
SNP_P4_146691_41726	NW_004516224.1	Scaffold862	41726	GG	AA	1946982011
SNP_P4_146692_41767	NW_004516224.1	Scaffold862	41767	GG	CC	1946982013
SNP_P4_146693_42031	NW_004516224.1	Scaffold862	42031	AA	GG	1946982015
SNP_P4_146694_44268	NW_004516224.1	Scaffold862	44268	AA	TT	1946982018
SNP_P4_146695_44289	NW_004516224.1	Scaffold862	44289	TT	GG	1946982020
SNP_P4_146696_44306	NW_004516224.1	Scaffold862	44306	CC	AA	1946982022
SNP_P4_146697_44308	NW_004516224.1	Scaffold862	44308	TT	CC	1946982024
SNP_P4_146698_44326	NW_004516224.1	Scaffold862	44326	GG	TT	1946982026
SNP_P4_146699_44351	NW_004516224.1	Scaffold862	44351	GG	TT	1946982028
SNP_P4_146700_44403	NW_004516224.1	Scaffold862	44403	TT	AA	1946982030
SNP_P4_146701_44474	NW_004516224.1	Scaffold862	44474	CC	AA	1946982032
SNP_P4_146702_44508	NW_004516224.1	Scaffold862	44508	TT	AA	1946982034
SNP_P4_146703_44556	NW_004516224.1	Scaffold862	44556	AA	GG	1946982037
SNP_P4_146704_44562	NW_004516224.1	Scaffold862	44562	CC	TT	1946982039
SNP_P4_146705_44570	NW_004516224.1	Scaffold862	44570	GG	AA	1946982041
SNP_P4_146706_44659	NW_004516224.1	Scaffold862	44659	GG	AA	1946982043
SNP_P4_146707_44757	NW_004516224.1	Scaffold862	44757	AA	TT	1946982045
SNP_P4_146708_44772	NW_004516224.1	Scaffold862	44772	TT	GG	1946982047
SNP_P4_146709_45959	NW_004516224.1	Scaffold862	45959	AA	GG	1946982049

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_146710_48873	NW_004516224.1	Scaffold862	48873	GG	AA	1946982051
SNP_P4_146711_48875	NW_004516224.1	Scaffold862	48875	AA	GG	1946982053
SNP_P4_146712_48916	NW_004516224.1	Scaffold862	48916	AA	CC	1946982055
SNP_P4_146713_48949	NW_004516224.1	Scaffold862	48949	CC	TT	1946982057
SNP_P4_146714_49157	NW_004516224.1	Scaffold862	49157	TT	AA	1946982060
SNP_P4_146715_49250	NW_004516224.1	Scaffold862	49250	CC	AA	1946982062
SNP_P4_146716_49289	NW_004516224.1	Scaffold862	49289	GG	TT	1946982064
SNP_P4_146717_49391	NW_004516224.1	Scaffold862	49391	TT	AA	1946982066
SNP_P4_146718_51094	NW_004516224.1	Scaffold862	51094	TT	AA	1946982068
SNP_P4_146719_51105	NW_004516224.1	Scaffold862	51105	GG	TT	1946982070
SNP_P4_146720_51140	NW_004516224.1	Scaffold862	51140	TT	CC	1946982072
SNP_P4_146721_51170	NW_004516224.1	Scaffold862	51170	AA	GG	1946982074
SNP_P4_146722_51302	NW_004516224.1	Scaffold862	51302	TT	CC	1946982076
SNP_P4_146723_51305	NW_004516224.1	Scaffold862	51305	TT	AA	1946982078
SNP_P4_146724_51410	NW_004516224.1	Scaffold862	51410	AA	GG	1946982080
SNP_P4_146725_51631	NW_004516224.1	Scaffold862	51631	GG	AA	1946982082
SNP_P4_146726_51741	NW_004516224.1	Scaffold862	51741	GG	CC	1946982084
SNP_P4_146727_51874	NW_004516224.1	Scaffold862	51874	GG	TT	1946982086
SNP_P4_146728_55727	NW_004516224.1	Scaffold862	55727	TT	CC	1946982088
SNP_P4_146729_55754	NW_004516224.1	Scaffold862	55754	TT	CC	1946982090
SNP_P4_146730_55832	NW_004516224.1	Scaffold862	55832	TT	GG	1946982092
SNP_P4_146731_57409	NW_004516224.1	Scaffold862	57409	AA	GG	1946982094
SNP_P4_146732_57456	NW_004516224.1	Scaffold862	57456	TT	CC	1946982096
SNP_P4_146733_59838	NW_004516224.1	Scaffold862	59838	CC	TT	1946982098
SNP_P4_146734_59853	NW_004516224.1	Scaffold862	59853	TT	GG	1946982100
SNP_P4_146735_59897	NW_004516224.1	Scaffold862	59897	GG	CC	1946982102
SNP_P4_146736_59898	NW_004516224.1	Scaffold862	59898	TT	GG	1946982104
SNP_P4_146737_59957	NW_004516224.1	Scaffold862	59957	GG	TT	1946982106
SNP_P4_146738_60085	NW_004516224.1	Scaffold862	60085	AA	CC	1946982108
SNP_P4_146739_60100	NW_004516224.1	Scaffold862	60100	GG	TT	1946982110
SNP_P4_146740_60101	NW_004516224.1	Scaffold862	60101	AA	GG	1946982112
SNP_P4_146741_60121	NW_004516224.1	Scaffold862	60121	TT	GG	1946982114
SNP_P4_146742_60156	NW_004516224.1	Scaffold862	60156	AA	GG	1946982116
SNP_P4_146743_60300	NW_004516224.1	Scaffold862	60300	GG	AA	1946982118
SNP_P4_146744_60304	NW_004516224.1	Scaffold862	60304	CC	TT	1946982120
SNP_P4_146745_60350	NW_004516224.1	Scaffold862	60350	GG	AA	1946982122
SNP_P4_146746_60362	NW_004516224.1	Scaffold862	60362	AA	TT	1946982124
SNP_P4_146747_927	NW_004516225.1	Scaffold863	927	AA	GG	1946982126
SNP_P4_146748_964	NW_004516225.1	Scaffold863	964	TT	CC	1946982128
SNP_P4_146749_979	NW_004516225.1	Scaffold863	979	CC	GG	1946982130
SNP_P4_146751_32047	NW_004516226.1	Scaffold864	32047	GG	AA	1946982132
SNP_P4_146752_40294	NW_004516226.1	Scaffold864	40294	CC	TT	1946982134

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_146754_40552	NW_004516226.1	Scaffold864	40552	TT	CC	1946982137
SNP_P4_146755_40638	NW_004516226.1	Scaffold864	40638	CC	TT	1946982139
SNP_P4_146756_40648	NW_004516226.1	Scaffold864	40648	GG	AA	1946982141
SNP_P4_146757_40679	NW_004516226.1	Scaffold864	40679	AA	GG	1946982143
SNP_P4_146758_40686	NW_004516226.1	Scaffold864	40686	TT	AA	1946982145
SNP_P4_146759_40714	NW_004516226.1	Scaffold864	40714	GG	AA	1946982147
SNP_P4_146760_40929	NW_004516226.1	Scaffold864	40929	CC	TT	1946982149
SNP_P4_146761_49065	NW_004516226.1	Scaffold864	49065	CC	TT	1946982151
SNP_P4_146762_50377	NW_004516226.1	Scaffold864	50377	AA	TT	1946982153
SNP_P4_146763_53430	NW_004516226.1	Scaffold864	53430	AA	CC	1946982155
SNP_P4_146764_53432	NW_004516226.1	Scaffold864	53432	GG	AA	1946982157
SNP_P4_146765_53444	NW_004516226.1	Scaffold864	53444	CC	TT	1946982160
SNP_P4_146766_77063	NW_004516226.1	Scaffold864	77063	GG	TT	1946982161
SNP_P4_146767_77109	NW_004516226.1	Scaffold864	77109	GG	AA	1946982163
SNP_P4_146768_77120	NW_004516226.1	Scaffold864	77120	AA	GG	1946982165
SNP_P4_146769_77544	NW_004516226.1	Scaffold864	77544	TT	CC	1946982167
SNP_P4_146770_77554	NW_004516226.1	Scaffold864	77554	TT	CC	1946982170
SNP_P4_146771_77603	NW_004516226.1	Scaffold864	77603	TT	AA	1946982172
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SNP_P4_146773_77760	NW_004516226.1	Scaffold864	77760	AA	TT	1946982176
SNP_P4_146774_78777	NW_004516226.1	Scaffold864	78777	GG	TT	1946982178
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SNP_P4_146776_96472	NW_004516226.1	Scaffold864	96472	TT	AA	1946982182
SNP_P4_146777_96563	NW_004516226.1	Scaffold864	96563	AA	GG	1946982184
SNP_P4_146778_102072	NW_004516226.1	Scaffold864	102072	TT	AA	1946982186
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SNP_P4_146780_105759	NW_004516226.1	Scaffold864	105759	CC	AA	1946982190
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SNP_P4_146782_105810	NW_004516226.1	Scaffold864	105810	CC	TT	1946982194
SNP_P4_146783_119943	NW_004516226.1	Scaffold864	119943	CC	GG	1946982196
SNP_P4_146784_120916	NW_004516226.1	Scaffold864	120916	GG	CC	1946982198
SNP_P4_146786_143182	NW_004516226.1	Scaffold864	143182	AA	GG	1946982200
SNP_P4_146787_158979	NW_004516226.1	Scaffold864	158979	AA	CC	1946982202
SNP_P4_146788_168637	NW_004516226.1	Scaffold864	168637	TT	CC	1946982204
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SNP_P4_146790_168762	NW_004516226.1	Scaffold864	168762	GG	CC	1946982209
SNP_P4_146791_187285	NW_004516226.1	Scaffold864	187285	AA	CC	1946982211
SNP_P4_146792_211598	NW_004516226.1	Scaffold864	211598	AA	GG	1946982213
SNP_P4_146793_213201	NW_004516226.1	Scaffold864	213201	AA	GG	1946982214
SNP_P4_146794_225728	NW_004516226.1	Scaffold864	225728	CC	AA	1946982216
SNP_P4_146795_238414	NW_004516226.1	Scaffold864	238414	TT	CC	1946982218

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_146797_247766	NW_004516226.1	Scaffold864	247766	AA	GG	1946982222
SNP_P4_146799_248165	NW_004516226.1	Scaffold864	248165	GG	TT	1946982224
SNP_P4_146800_248243	NW_004516226.1	Scaffold864	248243	AA	CC	1946982226
SNP_P4_146801_248259	NW_004516226.1	Scaffold864	248259	TT	AA	1946982228
SNP_P4_146802_248269	NW_004516226.1	Scaffold864	248269	AA	GG	1946982230
SNP_P4_146803_248468	NW_004516226.1	Scaffold864	248468	GG	AA	1946982232
SNP_P4_146804_248686	NW_004516226.1	Scaffold864	248686	AA	CC	1946982234
SNP_P4_146805_248707	NW_004516226.1	Scaffold864	248707	TT	CC	1946982236
SNP_P4_146806_273373	NW_004516226.1	Scaffold864	273373	CC	TT	1946982238
SNP_P4_146807_290579	NW_004516226.1	Scaffold864	290579	AA	CC	1946982240
SNP_P4_146808_290589	NW_004516226.1	Scaffold864	290589	TT	AA	1946982242
SNP_P4_146809_290641	NW_004516226.1	Scaffold864	290641	TT	CC	1946982244
SNP_P4_146810_290883	NW_004516226.1	Scaffold864	290883	TT	AA	1946982246
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SNP_P4_146818_323047	NW_004516226.1	Scaffold864	323047	CC	TT	1946982262
SNP_P4_146819_323086	NW_004516226.1	Scaffold864	323086	AA	GG	1946982264
SNP_P4_146820_323089	NW_004516226.1	Scaffold864	323089	GG	AA	1946982266
SNP_P4_146821_323735	NW_004516226.1	Scaffold864	323735	GG	AA	1946982268
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SNP_P4_146823_323867	NW_004516226.1	Scaffold864	323867	GG	TT	1946982272
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SNP_P4_146825_286	NW_004516227.1	Scaffold865	286	AA	GG	1946982276
SNP_P4_146826_2359	NW_004516227.1	Scaffold865	2359	AA	GG	1946982278
SNP_P4_146827_7502	NW_004516227.1	Scaffold865	7502	GG	TT	1946982280
SNP_P4_146828_11817	NW_004516227.1	Scaffold865	11817	GG	TT	1946982281
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SNP_P4_146831_3358	NW_004516228.1	Scaffold866	3358	TT	GG	1946982288
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SNP_P4_146835_28853	NW_004516228.1	Scaffold866	28853	TT	CC	1946982296
SNP_P4_146836_28864	NW_004516228.1	Scaffold866	28864	TT	AA	1946982298
SNP_P4_146837_28873	NW_004516228.1	Scaffold866	28873	AA	GG	1946982300
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_146843_64113	NW_004516228.1	Scaffold866	64113	CC	TT	1946982308
SNP_P4_146844_69431	NW_004516228.1	Scaffold866	69431	GG	AA	1946982310
SNP_P4_146845_72736	NW_004516228.1	Scaffold866	72736	CC	TT	1946982312
SNP_P4_146846_72752	NW_004516228.1	Scaffold866	72752	CC	TT	1946982314
SNP_P4_146847_72760	NW_004516228.1	Scaffold866	72760	CC	TT	1946982316
SNP_P4_146848_72764	NW_004516228.1	Scaffold866	72764	CC	GG	1946982318
SNP_P4_146849_92709	NW_004516228.1	Scaffold866	92709	GG	CC	1946982320
SNP_P4_146851_142412	NW_004516228.1	Scaffold866	142412	GG	AA	1946982322
SNP_P4_146852_142415	NW_004516228.1	Scaffold866	142415	TT	CC	1946982324
SNP_P4_146853_142445	NW_004516228.1	Scaffold866	142445	GG	TT	1946982326
SNP_P4_146854_142464	NW_004516228.1	Scaffold866	142464	TT	CC	1946982328
SNP_P4_146855_142472	NW_004516228.1	Scaffold866	142472	GG	CC	1946982330
SNP_P4_146857_142649	NW_004516228.1	Scaffold866	142649	AA	TT	1946982331
SNP_P4_146858_142781	NW_004516228.1	Scaffold866	142781	TT	CC	1946982333
SNP_P4_146859_142806	NW_004516228.1	Scaffold866	142806	TT	AA	1946982334
SNP_P4_146860_142854	NW_004516228.1	Scaffold866	142854	AA	TT	1946982335
SNP_P4_146861_142858	NW_004516228.1	Scaffold866	142858	AA	GG	1946982336
SNP_P4_146862_142894	NW_004516228.1	Scaffold866	142894	GG	TT	1946982338
SNP_P4_146863_142895	NW_004516228.1	Scaffold866	142895	TT	CC	1946982340
SNP_P4_146864_142922	NW_004516228.1	Scaffold866	142922	GG	AA	1946982342
SNP_P4_146865_142940	NW_004516228.1	Scaffold866	142940	CC	AA	1946982344
SNP_P4_146867_142984	NW_004516228.1	Scaffold866	142984	CC	TT	1946982346
SNP_P4_146868_143010	NW_004516228.1	Scaffold866	143010	AA	GG	1946982348
SNP_P4_146869_143013	NW_004516228.1	Scaffold866	143013	CC	GG	1946982350
SNP_P4_146870_143066	NW_004516228.1	Scaffold866	143066	TT	CC	1946982351
SNP_P4_146871_145370	NW_004516228.1	Scaffold866	145370	CC	TT	1946982353
SNP_P4_146872_148333	NW_004516228.1	Scaffold866	148333	CC	TT	1946982355
SNP_P4_146873_210309	NW_004516228.1	Scaffold866	210309	AA	GG	1946982357
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SNP_P4_146876_5663	NW_004516229.1	Scaffold868	5663	AA	GG	1946982363
SNP_P4_146877_5673	NW_004516229.1	Scaffold868	5673	TT	AA	1946982365
SNP_P4_146878_5688	NW_004516229.1	Scaffold868	5688	GG	AA	1946982367
SNP_P4_146879_5952	NW_004516229.1	Scaffold868	5952	GG	AA	1946982369
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SNP_P4_146881_21735	NW_004516229.1	Scaffold868	21735	GG	TT	1946982373
SNP_P4_146882_22215	NW_004516229.1	Scaffold868	22215	TT	CC	1946982375
SNP_P4_146883_22363	NW_004516229.1	Scaffold868	22363	AA	TT	1946982377
SNP_P4_146884_24868	NW_004516229.1	Scaffold868	24868	CC	TT	1946982379
SNP_P4_146885_24873	NW_004516229.1	Scaffold868	24873	GG	CC	1946982381

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_146887_25542	NW_004516229.1	Scaffold868	25542	AA	GG	1946982385
SNP_P4_146888_25614	NW_004516229.1	Scaffold868	25614	AA	CC	1946982387
SNP_P4_146890_27228	NW_004516229.1	Scaffold868	27228	AA	TT	1946982389
SNP_P4_146891_30331	NW_004516229.1	Scaffold868	30331	GG	AA	1946982392
SNP_P4_146892_30365	NW_004516229.1	Scaffold868	30365	CC	TT	1946982394
SNP_P4_146893_30381	NW_004516229.1	Scaffold868	30381	AA	GG	1946982396
SNP_P4_146894_30423	NW_004516229.1	Scaffold868	30423	AA	TT	1946982398
SNP_P4_146895_30433	NW_004516229.1	Scaffold868	30433	TT	CC	1946982400
SNP_P4_146896_30469	NW_004516229.1	Scaffold868	30469	CC	TT	1946982402
SNP_P4_146897_30591	NW_004516229.1	Scaffold868	30591	AA	GG	1946982404
SNP_P4_146898_30655	NW_004516229.1	Scaffold868	30655	CC	GG	1946982406
SNP_P4_146899_30672	NW_004516229.1	Scaffold868	30672	TT	CC	1946982408
SNP_P4_146900_31259	NW_004516229.1	Scaffold868	31259	GG	AA	1946982410
SNP_P4_146901_31278	NW_004516229.1	Scaffold868	31278	AA	TT	1946982411
SNP_P4_146902_31621	NW_004516229.1	Scaffold868	31621	CC	GG	1946982413
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SNP_P4_146904_31692	NW_004516229.1	Scaffold868	31692	TT	AA	1946982417
SNP_P4_146905_31693	NW_004516229.1	Scaffold868	31693	TT	CC	1946982419
SNP_P4_146906_31944	NW_004516229.1	Scaffold868	31944	CC	GG	1946982421
SNP_P4_146907_31947	NW_004516229.1	Scaffold868	31947	AA	TT	1946982423
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SNP_P4_146911_32114	NW_004516229.1	Scaffold868	32114	CC	TT	1946982429
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SNP_P4_146913_46681	NW_004516229.1	Scaffold868	46681	TT	CC	1946982432
SNP_P4_146914_46725	NW_004516229.1	Scaffold868	46725	TT	AA	1946982434
SNP_P4_146915_46741	NW_004516229.1	Scaffold868	46741	AA	TT	1946982436
SNP_P4_146916_46964	NW_004516229.1	Scaffold868	46964	AA	GG	1946982438
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SNP_P4_146918_47037	NW_004516229.1	Scaffold868	47037	AA	CC	1946982442
SNP_P4_146919_47067	NW_004516229.1	Scaffold868	47067	CC	GG	1946982444
SNP_P4_146920_47119	NW_004516229.1	Scaffold868	47119	TT	GG	1946982445
SNP_P4_146921_47120	NW_004516229.1	Scaffold868	47120	TT	CC	1946982447
SNP_P4_146922_47240	NW_004516229.1	Scaffold868	47240	AA	CC	1946982449
SNP_P4_146923_47250	NW_004516229.1	Scaffold868	47250	AA	TT	1946982451
SNP_P4_146924_47257	NW_004516229.1	Scaffold868	47257	AA	TT	1946982453
SNP_P4_146925_47260	NW_004516229.1	Scaffold868	47260	CC	AA	1946982455
SNP_P4_146926_47263	NW_004516229.1	Scaffold868	47263	GG	AA	1946982457
SNP_P4_146927_47317	NW_004516229.1	Scaffold868	47317	AA	CC	1946982459
SNP_P4_146928_47319	NW_004516229.1	Scaffold868	47319	AA	CC	1946982461
SNP_P4_146929_47353	NW_004516229.1	Scaffold868	47353	TT	CC	1946982463

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_146931_47439	NW_004516229.1	Scaffold868	47439	AA	TT	1946982467
SNP_P4_146932_47463	NW_004516229.1	Scaffold868	47463	GG	AA	1946982469
SNP_P4_146933_47505	NW_004516229.1	Scaffold868	47505	CC	AA	1946982471
SNP_P4_146934_47524	NW_004516229.1	Scaffold868	47524	TT	AA	1946982473
SNP_P4_146935_47598	NW_004516229.1	Scaffold868	47598	GG	TT	1946982475
SNP_P4_146936_47623	NW_004516229.1	Scaffold868	47623	AA	TT	1946982477
SNP_P4_146937_47699	NW_004516229.1	Scaffold868	47699	AA	GG	1946982479
SNP_P4_146938_47768	NW_004516229.1	Scaffold868	47768	GG	AA	1946982481
SNP_P4_146939_47778	NW_004516229.1	Scaffold868	47778	AA	TT	1946982483
SNP_P4_146940_47779	NW_004516229.1	Scaffold868	47779	TT	GG	1946982485
SNP_P4_146941_47789	NW_004516229.1	Scaffold868	47789	AA	CC	1946982486
SNP_P4_146942_47835	NW_004516229.1	Scaffold868	47835	AA	GG	1946982488
SNP_P4_146943_47856	NW_004516229.1	Scaffold868	47856	CC	TT	1946982490
SNP_P4_146944_47917	NW_004516229.1	Scaffold868	47917	TT	AA	1946982492
SNP_P4_146945_54259	NW_004516229.1	Scaffold868	54259	AA	GG	1946982494
SNP_P4_146947_56042	NW_004516229.1	Scaffold868	56042	CC	TT	1946982496
SNP_P4_146948_69299	NW_004516229.1	Scaffold868	69299	GG	AA	1946982497
SNP_P4_146949_69337	NW_004516229.1	Scaffold868	69337	AA	GG	1946982498
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SNP_P4_146951_69484	NW_004516229.1	Scaffold868	69484	AA	TT	1946982502
SNP_P4_146952_69606	NW_004516229.1	Scaffold868	69606	GG	TT	1946982504
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SNP_P4_146961_45173	NW_004516230.1	Scaffold869	45173	AA	TT	1946982520
SNP_P4_146962_56066	NW_004516230.1	Scaffold869	56066	CC	TT	1946982522
SNP_P4_146963_69213	NW_004516230.1	Scaffold869	69213	TT	CC	1946982524
SNP_P4_146964_73141	NW_004516230.1	Scaffold869	73141	AA	CC	1946982526
SNP_P4_146965_73153	NW_004516230.1	Scaffold869	73153	CC	TT	1946982528
SNP_P4_146966_73155	NW_004516230.1	Scaffold869	73155	GG	CC	1946982530
SNP_P4_146967_73166	NW_004516230.1	Scaffold869	73166	GG	AA	1946982532
SNP_P4_146968_73174	NW_004516230.1	Scaffold869	73174	AA	GG	1946982534
SNP_P4_146969_73192	NW_004516230.1	Scaffold869	73192	GG	AA	1946982536
SNP_P4_146970_73229	NW_004516230.1	Scaffold869	73229	CC	TT	1946982538
SNP_P4_146971_73272	NW_004516230.1	Scaffold869	73272	GG	AA	1946982540
SNP_P4_146972_73493	NW_004516230.1	Scaffold869	73493	TT	AA	1946982542
SNP_P4_146974_78009	NW_004516230.1	Scaffold869	78009	GG	AA	1946982544

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_146976_89408	NW_004516230.1	Scaffold869	89408	AA	GG	1946982548
SNP_P4_146977_90341	NW_004516230.1	Scaffold869	90341	GG	AA	1946982549
SNP_P4_146978_95353	NW_004516230.1	Scaffold869	95353	GG	AA	1946982551
SNP_P4_146979_96716	NW_004516230.1	Scaffold869	96716	AA	GG	1946982553
SNP_P4_146980_97697	NW_004516230.1	Scaffold869	97697	GG	AA	1946982555
SNP_P4_146981_97805	NW_004516230.1	Scaffold869	97805	GG	AA	1946982557
SNP_P4_146982_107192	NW_004516230.1	Scaffold869	107192	GG	AA	1946982559
SNP_P4_146983_108693	NW_004516230.1	Scaffold869	108693	CC	TT	1946982560
SNP_P4_146984_111907	NW_004516230.1	Scaffold869	111907	GG	AA	1946982562
SNP_P4_146985_111994	NW_004516230.1	Scaffold869	111994	TT	AA	1946982564
SNP_P4_146986_111996	NW_004516230.1	Scaffold869	111996	CC	TT	1946982566
SNP_P4_146987_114754	NW_004516230.1	Scaffold869	114754	CC	TT	1946982568
SNP_P4_146988_114898	NW_004516230.1	Scaffold869	114898	TT	CC	1946982570
SNP_P4_146989_114905	NW_004516230.1	Scaffold869	114905	TT	CC	1946982572
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SNP_P4_146992_124076	NW_004516230.1	Scaffold869	124076	AA	CC	1946982577
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SNP_P4_147002_10525	NW_004516231.1	Scaffold870	10525	TT	CC	1946982596
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SNP_P4_147005_16879	NW_004516231.1	Scaffold870	16879	AA	TT	1946982600
SNP_P4_147006_22479	NW_004516231.1	Scaffold870	22479	TT	CC	1946982602
SNP_P4_147007_22531	NW_004516231.1	Scaffold870	22531	TT	CC	1946982604
SNP_P4_147010_42714	NW_004516231.1	Scaffold870	42714	TT	CC	1946982606
SNP_P4_147011_43000	NW_004516231.1	Scaffold870	43000	TT	CC	1946982608
SNP_P4_147012_43175	NW_004516231.1	Scaffold870	43175	CC	AA	1946982610
SNP_P4_147013_43449	NW_004516231.1	Scaffold870	43449	AA	GG	1946982612
SNP_P4_147014_55150	NW_004516231.1	Scaffold870	55150	AA	CC	1946982614
SNP_P4_147016_58507	NW_004516231.1	Scaffold870	58507	AA	CC	1946982616
SNP_P4_147017_58513	NW_004516231.1	Scaffold870	58513	AA	GG	1946982617
SNP_P4_147018_58516	NW_004516231.1	Scaffold870	58516	TT	CC	1946982619
SNP_P4_147019_58520	NW_004516231.1	Scaffold870	58520	TT	CC	1946982621
SNP_P4_147020_60361	NW_004516231.1	Scaffold870	60361	CC	TT	1946982623

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_147022_73549	NW_004516231.1	Scaffold870	73549	CC	TT	1946982626
SNP_P4_147024_73802	NW_004516231.1	Scaffold870	73802	AA	TT	1946982628
SNP_P4_147025_73880	NW_004516231.1	Scaffold870	73880	AA	GG	1946982630
SNP_P4_147026_76763	NW_004516231.1	Scaffold870	76763	AA	TT	1946982632
SNP_P4_147027_76953	NW_004516231.1	Scaffold870	76953	TT	AA	1946982634
SNP_P4_147028_77173	NW_004516231.1	Scaffold870	77173	TT	AA	1946982636
SNP_P4_147029_82293	NW_004516231.1	Scaffold870	82293	TT	CC	1946982638
SNP_P4_147030_82295	NW_004516231.1	Scaffold870	82295	AA	CC	1946982640
SNP_P4_147031_82297	NW_004516231.1	Scaffold870	82297	GG	TT	1946982642
SNP_P4_147033_82477	NW_004516231.1	Scaffold870	82477	CC	TT	1946982643
SNP_P4_147034_82489	NW_004516231.1	Scaffold870	82489	GG	AA	1946982645
SNP_P4_147035_82638	NW_004516231.1	Scaffold870	82638	AA	GG	1946982648
SNP_P4_147036_82663	NW_004516231.1	Scaffold870	82663	GG	AA	1946982649
SNP_P4_147037_87939	NW_004516231.1	Scaffold870	87939	TT	CC	1946982651
SNP_P4_147038_188	NW_004516232.1	Scaffold872	188	GG	AA	1946982653
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SNP_P4_147040_16000	NW_004516232.1	Scaffold872	16000	AA	TT	1946982657
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SNP_P4_147042_69	NW_004516233.1	Scaffold873	69	CC	TT	1946982661
SNP_P4_147043_116	NW_004516233.1	Scaffold873	116	TT	CC	1946982663
SNP_P4_147044_132	NW_004516233.1	Scaffold873	132	TT	CC	1946982665
SNP_P4_147045_320	NW_004516233.1	Scaffold873	320	TT	CC	1946982667
SNP_P4_147046_9357	NW_004516233.1	Scaffold873	9357	AA	GG	1946982669
SNP_P4_147047_9359	NW_004516233.1	Scaffold873	9359	GG	TT	1946982671
SNP_P4_147048_9362	NW_004516233.1	Scaffold873	9362	AA	CC	1946982673
SNP_P4_147049_9553	NW_004516233.1	Scaffold873	9553	AA	CC	1946982675
SNP_P4_147054_82451	NW_004516233.1	Scaffold873	82451	AA	CC	1946982677
SNP_P4_147055_88984	NW_004516233.1	Scaffold873	88984	CC	TT	1946982679
SNP_P4_147057_99334	NW_004516233.1	Scaffold873	99334	TT	CC	1946982681
SNP_P4_147059_163384	NW_004516233.1	Scaffold873	163384	CC	TT	1946982683
SNP_P4_147060_194373	NW_004516233.1	Scaffold873	194373	TT	AA	1946982686
SNP_P4_147062_215356	NW_004516233.1	Scaffold873	215356	CC	AA	1946982688
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SNP_P4_147065_242726	NW_004516233.1	Scaffold873	242726	AA	GG	1946982694
SNP_P4_147066_242727	NW_004516233.1	Scaffold873	242727	GG	TT	1946982695
SNP_P4_147067_242788	NW_004516233.1	Scaffold873	242788	CC	TT	1946982697
SNP_P4_147068_242872	NW_004516233.1	Scaffold873	242872	GG	AA	1946982699
SNP_P4_147069_242884	NW_004516233.1	Scaffold873	242884	AA	TT	1946982701
SNP_P4_147070_243042	NW_004516233.1	Scaffold873	243042	AA	TT	1946982703
SNP_P4_147071_252737	NW_004516233.1	Scaffold873	252737	AA	GG	1946982705

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_147073_252815	NW_004516233.1	Scaffold873	252815	CC	TT	1946982709
SNP_P4_147074_253013	NW_004516233.1	Scaffold873	253013	TT	CC	1946982711
SNP_P4_147075_253014	NW_004516233.1	Scaffold873	253014	CC	AA	1946982713
SNP_P4_147076_253081	NW_004516233.1	Scaffold873	253081	GG	AA	1946982715
SNP_P4_147077_253082	NW_004516233.1	Scaffold873	253082	GG	AA	1946982717
SNP_P4_147078_253090	NW_004516233.1	Scaffold873	253090	CC	AA	1946982720
SNP_P4_147079_253109	NW_004516233.1	Scaffold873	253109	CC	TT	1946982722
SNP_P4_147080_257238	NW_004516233.1	Scaffold873	257238	AA	GG	1946982724
SNP_P4_147081_257240	NW_004516233.1	Scaffold873	257240	AA	TT	1946982726
SNP_P4_147082_271925	NW_004516233.1	Scaffold873	271925	CC	TT	1946982727
SNP_P4_147083_279002	NW_004516233.1	Scaffold873	279002	AA	CC	1946982729
SNP_P4_147084_286764	NW_004516233.1	Scaffold873	286764	AA	GG	1946982731
SNP_P4_147085_286797	NW_004516233.1	Scaffold873	286797	TT	CC	1946982733
SNP_P4_147086_286864	NW_004516233.1	Scaffold873	286864	CC	TT	1946982735
SNP_P4_147087_286869	NW_004516233.1	Scaffold873	286869	CC	TT	1946982737
SNP_P4_147089_311620	NW_004516233.1	Scaffold873	311620	GG	AA	1946982739
SNP_P4_147090_318657	NW_004516233.1	Scaffold873	318657	TT	CC	1946982741
SNP_P4_147091_318677	NW_004516233.1	Scaffold873	318677	AA	CC	1946982743
SNP_P4_147092_318679	NW_004516233.1	Scaffold873	318679	GG	AA	1946982745
SNP_P4_147093_334567	NW_004516233.1	Scaffold873	334567	AA	CC	1946982747
SNP_P4_147094_334680	NW_004516233.1	Scaffold873	334680	GG	AA	1946982749
SNP_P4_147095_344709	NW_004516233.1	Scaffold873	344709	TT	CC	1946982751
SNP_P4_147096_344775	NW_004516233.1	Scaffold873	344775	GG	AA	1946982753
SNP_P4_147097_344805	NW_004516233.1	Scaffold873	344805	AA	GG	1946982755
SNP_P4_147098_344806	NW_004516233.1	Scaffold873	344806	GG	AA	1946982757
SNP_P4_147099_344827	NW_004516233.1	Scaffold873	344827	AA	CC	1946982759
SNP_P4_147101_344960	NW_004516233.1	Scaffold873	344960	AA	GG	1946982761
SNP_P4_147102_344967	NW_004516233.1	Scaffold873	344967	AA	GG	1946982762
SNP_P4_147103_344982	NW_004516233.1	Scaffold873	344982	AA	GG	1946982764
SNP_P4_147104_344983	NW_004516233.1	Scaffold873	344983	CC	AA	1946982766
SNP_P4_147105_345021	NW_004516233.1	Scaffold873	345021	AA	GG	1946982768
SNP_P4_147106_345050	NW_004516233.1	Scaffold873	345050	GG	AA	1946982770
SNP_P4_147107_345278	NW_004516233.1	Scaffold873	345278	TT	AA	1946982772
SNP_P4_147108_345308	NW_004516233.1	Scaffold873	345308	AA	GG	1946982774
SNP_P4_147109_27532	NW_004516234.1	Scaffold875	27532	CC	TT	1946982777
SNP_P4_147110_43033	NW_004516234.1	Scaffold875	43033	AA	CC	1946982779
SNP_P4_147111_66548	NW_004516234.1	Scaffold875	66548	GG	AA	1946982781
SNP_P4_147112_104088	NW_004516234.1	Scaffold875	104088	TT	GG	1946982783
SNP_P4_147113_104927	NW_004516234.1	Scaffold875	104927	AA	TT	1946982785
SNP_P4_147114_104949	NW_004516234.1	Scaffold875	104949	AA	TT	1946982787
SNP_P4_147115_105016	NW_004516234.1	Scaffold875	105016	AA	GG	1946982789

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_147117_108160	NW_004516234.1	Scaffold875	108160	AA	GG	1946982793
SNP_P4_147118_108210	NW_004516234.1	Scaffold875	108210	AA	GG	1946982795
SNP_P4_147119_108216	NW_004516234.1	Scaffold875	108216	TT	CC	1946982797
SNP_P4_147120_108229	NW_004516234.1	Scaffold875	108229	CC	TT	1946982799
SNP_P4_147121_108344	NW_004516234.1	Scaffold875	108344	AA	TT	1946982801
SNP_P4_147122_108407	NW_004516234.1	Scaffold875	108407	TT	GG	1946982803
SNP_P4_147123_108429	NW_004516234.1	Scaffold875	108429	CC	TT	1946982806
SNP_P4_147124_108539	NW_004516234.1	Scaffold875	108539	CC	AA	1946982808
SNP_P4_147125_3766	NW_004516235.1	Scaffold876	3766	GG	AA	1946982810
SNP_P4_147126_3929	NW_004516235.1	Scaffold876	3929	CC	TT	1946982812
SNP_P4_147127_5202	NW_004516235.1	Scaffold876	5202	AA	GG	1946982815
SNP_P4_147129_5335	NW_004516235.1	Scaffold876	5335	GG	AA	1946982817
SNP_P4_147130_5373	NW_004516235.1	Scaffold876	5373	CC	AA	1946982819
SNP_P4_147133_26054	NW_004516235.1	Scaffold876	26054	AA	GG	1946982821
SNP_P4_147134_45322	NW_004516235.1	Scaffold876	45322	AA	GG	1946982824
SNP_P4_147135_52903	NW_004516235.1	Scaffold876	52903	GG	AA	1946982826
SNP_P4_147136_53242	NW_004516235.1	Scaffold876	53242	AA	CC	1946982828
SNP_P4_147137_53521	NW_004516235.1	Scaffold876	53521	CC	TT	1946982830
SNP_P4_147138_57891	NW_004516235.1	Scaffold876	57891	TT	AA	1946982832
SNP_P4_147139_58173	NW_004516235.1	Scaffold876	58173	TT	GG	1946982833
SNP_P4_147140_66909	NW_004516235.1	Scaffold876	66909	GG	TT	1946982835
SNP_P4_147142_84656	NW_004516235.1	Scaffold876	84656	CC	GG	1946982837
SNP_P4_147143_91555	NW_004516235.1	Scaffold876	91555	AA	GG	1946982839
SNP_P4_147144_91563	NW_004516235.1	Scaffold876	91563	AA	CC	1946982841
SNP_P4_147145_94912	NW_004516235.1	Scaffold876	94912	TT	CC	1946982843
SNP_P4_147146_97538	NW_004516235.1	Scaffold876	97538	TT	GG	1946982845
SNP_P4_147147_97612	NW_004516235.1	Scaffold876	97612	TT	CC	1946982847
SNP_P4_147148_100829	NW_004516235.1	Scaffold876	100829	AA	CC	1946982849
SNP_P4_147149_101146	NW_004516235.1	Scaffold876	101146	CC	TT	1946982851
SNP_P4_147150_101151	NW_004516235.1	Scaffold876	101151	TT	CC	1946982853
SNP_P4_147151_101171	NW_004516235.1	Scaffold876	101171	TT	GG	1946982855
SNP_P4_147152_101174	NW_004516235.1	Scaffold876	101174	AA	GG	1946982857
SNP_P4_147153_101423	NW_004516235.1	Scaffold876	101423	AA	TT	1946982859
SNP_P4_147154_105563	NW_004516235.1	Scaffold876	105563	AA	GG	1946982861
SNP_P4_147158_152094	NW_004516235.1	Scaffold876	152094	TT	CC	1946982863
SNP_P4_147159_152169	NW_004516235.1	Scaffold876	152169	CC	AA	1946982865
SNP_P4_147160_152172	NW_004516235.1	Scaffold876	152172	AA	GG	1946982867
SNP_P4_147161_152211	NW_004516235.1	Scaffold876	152211	GG	AA	1946982869
SNP_P4_147162_152226	NW_004516235.1	Scaffold876	152226	CC	AA	1946982871
SNP_P4_147163_173281	NW_004516235.1	Scaffold876	173281	TT	CC	1946982873
SNP_P4_147164_173295	NW_004516235.1	Scaffold876	173295	CC	TT	1946982875

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_147167_248385	NW_004516235.1	Scaffold876	248385	AA	CC	1946982880
SNP_P4_147168_248547	NW_004516235.1	Scaffold876	248547	CC	TT	1946982882
SNP_P4_147169_248558	NW_004516235.1	Scaffold876	248558	TT	CC	1946982884
SNP_P4_147170_255167	NW_004516235.1	Scaffold876	255167	AA	GG	1946982887
SNP_P4_147171_255210	NW_004516235.1	Scaffold876	255210	AA	TT	1946982889
SNP_P4_147172_256452	NW_004516235.1	Scaffold876	256452	CC	TT	1946982891
SNP_P4_147173_256507	NW_004516235.1	Scaffold876	256507	TT	GG	1946982893
SNP_P4_147174_256512	NW_004516235.1	Scaffold876	256512	TT	CC	1946982895
SNP_P4_147175_256535	NW_004516235.1	Scaffold876	256535	GG	TT	1946982897
SNP_P4_147176_258302	NW_004516235.1	Scaffold876	258302	TT	AA	1946982899
SNP_P4_147177_261561	NW_004516235.1	Scaffold876	261561	AA	CC	1946982901
SNP_P4_147178_323577	NW_004516235.1	Scaffold876	323577	AA	CC	1946982903
SNP_P4_147179_325558	NW_004516235.1	Scaffold876	325558	TT	GG	1946982905
SNP_P4_147180_333470	NW_004516235.1	Scaffold876	333470	GG	AA	1946982907
SNP_P4_147181_339839	NW_004516235.1	Scaffold876	339839	CC	TT	1946982909
SNP_P4_147182_355476	NW_004516235.1	Scaffold876	355476	CC	TT	1946982910
SNP_P4_147183_355827	NW_004516235.1	Scaffold876	355827	TT	GG	1946982911
SNP_P4_147184_355894	NW_004516235.1	Scaffold876	355894	CC	TT	1946982912
SNP_P4_147185_358845	NW_004516235.1	Scaffold876	358845	TT	CC	1946982914
SNP_P4_147186_368776	NW_004516235.1	Scaffold876	368776	AA	GG	1946982916
SNP_P4_147187_368826	NW_004516235.1	Scaffold876	368826	CC	TT	1946982918
SNP_P4_147188_369454	NW_004516235.1	Scaffold876	369454	AA	GG	1946982920
SNP_P4_147189_369587	NW_004516235.1	Scaffold876	369587	TT	CC	1946982922
SNP_P4_147190_369633	NW_004516235.1	Scaffold876	369633	AA	TT	1946982923
SNP_P4_147191_369637	NW_004516235.1	Scaffold876	369637	AA	GG	1946982925
SNP_P4_147193_369809	NW_004516235.1	Scaffold876	369809	AA	TT	1946982928
SNP_P4_147194_369862	NW_004516235.1	Scaffold876	369862	AA	GG	1946982930
SNP_P4_147195_369881	NW_004516235.1	Scaffold876	369881	CC	AA	1946982932
SNP_P4_147196_369888	NW_004516235.1	Scaffold876	369888	AA	CC	1946982934
SNP_P4_147197_373639	NW_004516235.1	Scaffold876	373639	TT	GG	1946982936
SNP_P4_147198_376766	NW_004516235.1	Scaffold876	376766	CC	TT	1946982938
SNP_P4_147199_386264	NW_004516235.1	Scaffold876	386264	CC	TT	1946982940
SNP_P4_147200_392146	NW_004516235.1	Scaffold876	392146	AA	GG	1946982942
SNP_P4_147201_392448	NW_004516235.1	Scaffold876	392448	TT	CC	1946982944
SNP_P4_147202_392479	NW_004516235.1	Scaffold876	392479	AA	GG	1946982946
SNP_P4_147203_392521	NW_004516235.1	Scaffold876	392521	TT	CC	1946982948
SNP_P4_147204_392524	NW_004516235.1	Scaffold876	392524	TT	CC	1946982950
SNP_P4_147205_392660	NW_004516235.1	Scaffold876	392660	CC	TT	1946982952
SNP_P4_147206_397291	NW_004516235.1	Scaffold876	397291	AA	GG	1946982954
SNP_P4_147207_397525	NW_004516235.1	Scaffold876	397525	TT	CC	1946982956

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_147209_400724	NW_004516235.1	Scaffold876	400724	AA	GG	1946982961
SNP_P4_147210_404086	NW_004516235.1	Scaffold876	404086	AA	TT	1946982963
SNP_P4_147212_432529	NW_004516235.1	Scaffold876	432529	AA	GG	1946982965
SNP_P4_147213_437740	NW_004516235.1	Scaffold876	437740	AA	GG	1946982967
SNP_P4_147214_437812	NW_004516235.1	Scaffold876	437812	GG	TT	1946982969
SNP_P4_147215_437813	NW_004516235.1	Scaffold876	437813	CC	AA	1946982971
SNP_P4_147216_437821	NW_004516235.1	Scaffold876	437821	AA	GG	1946982973
SNP_P4_147217_437824	NW_004516235.1	Scaffold876	437824	TT	AA	1946982974
SNP_P4_147218_437828	NW_004516235.1	Scaffold876	437828	TT	AA	1946982976
SNP_P4_147219_437829	NW_004516235.1	Scaffold876	437829	AA	TT	1946982978
SNP_P4_147220_438078	NW_004516235.1	Scaffold876	438078	TT	CC	1946982980
SNP_P4_147221_438326	NW_004516235.1	Scaffold876	438326	AA	GG	1946982982
SNP_P4_147222_438457	NW_004516235.1	Scaffold876	438457	CC	AA	1946982984
SNP_P4_147223_438463	NW_004516235.1	Scaffold876	438463	AA	TT	1946982986
SNP_P4_147224_438464	NW_004516235.1	Scaffold876	438464	CC	TT	1946982988
SNP_P4_147225_438635	NW_004516235.1	Scaffold876	438635	TT	CC	1946982990
SNP_P4_147226_438697	NW_004516235.1	Scaffold876	438697	TT	GG	1946982992
SNP_P4_147227_438733	NW_004516235.1	Scaffold876	438733	TT	CC	1946982993
SNP_P4_147228_438747	NW_004516235.1	Scaffold876	438747	TT	CC	1946982995
SNP_P4_147229_438800	NW_004516235.1	Scaffold876	438800	CC	AA	1946982997
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SNP_P4_147233_442806	NW_004516235.1	Scaffold876	442806	CC	GG	1946983005
SNP_P4_147234_442808	NW_004516235.1	Scaffold876	442808	TT	CC	1946983008
SNP_P4_147235_443144	NW_004516235.1	Scaffold876	443144	GG	AA	1946983010
SNP_P4_147236_443147	NW_004516235.1	Scaffold876	443147	CC	TT	1946983012
SNP_P4_147237_443148	NW_004516235.1	Scaffold876	443148	GG	AA	1946983014
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SNP_P4_147239_446445	NW_004516235.1	Scaffold876	446445	CC	AA	1946983018
SNP_P4_147240_447217	NW_004516235.1	Scaffold876	447217	AA	GG	1946983020
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SNP_P4_147242_447681	NW_004516235.1	Scaffold876	447681	GG	AA	1946983024
SNP_P4_147243_453010	NW_004516235.1	Scaffold876	453010	TT	AA	1946983026
SNP_P4_147244_458335	NW_004516235.1	Scaffold876	458335	AA	GG	1946983028
SNP_P4_147245_469027	NW_004516235.1	Scaffold876	469027	AA	TT	1946983030
SNP_P4_147246_474254	NW_004516235.1	Scaffold876	474254	GG	CC	1946983032
SNP_P4_147247_474466	NW_004516235.1	Scaffold876	474466	AA	GG	1946983034
SNP_P4_147248_474494	NW_004516235.1	Scaffold876	474494	AA	GG	1946983035
SNP_P4_147249_474912	NW_004516235.1	Scaffold876	474912	TT	CC	1946983037
SNP_P4_147250_475956	NW_004516235.1	Scaffold876	475956	AA	GG	1946983039

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_147252_482106	NW_004516235.1	Scaffold876	482106	AA	GG	1946983043
SNP_P4_147253_492412	NW_004516235.1	Scaffold876	492412	CC	TT	1946983045
SNP_P4_147254_494024	NW_004516235.1	Scaffold876	494024	GG	AA	1946983048
SNP_P4_147255_500476	NW_004516235.1	Scaffold876	500476	TT	GG	1946983050
SNP_P4_147256_503084	NW_004516235.1	Scaffold876	503084	GG	TT	1946983052
SNP_P4_147257_507655	NW_004516235.1	Scaffold876	507655	CC	TT	1946983054
SNP_P4_147258_509450	NW_004516235.1	Scaffold876	509450	AA	TT	1946983056
SNP_P4_147259_509548	NW_004516235.1	Scaffold876	509548	AA	GG	1946983058
SNP_P4_147260_509788	NW_004516235.1	Scaffold876	509788	CC	TT	1946983060
SNP_P4_147261_509824	NW_004516235.1	Scaffold876	509824	CC	TT	1946983062
SNP_P4_147262_509914	NW_004516235.1	Scaffold876	509914	CC	TT	1946983063
SNP_P4_147263_509917	NW_004516235.1	Scaffold876	509917	GG	AA	1946983065
SNP_P4_147264_515950	NW_004516235.1	Scaffold876	515950	CC	GG	1946983067
SNP_P4_147265_520815	NW_004516235.1	Scaffold876	520815	GG	AA	1946983069
SNP_P4_147266_524775	NW_004516235.1	Scaffold876	524775	TT	CC	1946983071
SNP_P4_147267_553268	NW_004516235.1	Scaffold876	553268	AA	TT	1946983073
SNP_P4_147268_556620	NW_004516235.1	Scaffold876	556620	CC	AA	1946983075
SNP_P4_147269_556631	NW_004516235.1	Scaffold876	556631	AA	GG	1946983077
SNP_P4_147271_556671	NW_004516235.1	Scaffold876	556671	AA	GG	1946983080
SNP_P4_147272_556690	NW_004516235.1	Scaffold876	556690	AA	GG	1946983082
SNP_P4_147273_559100	NW_004516235.1	Scaffold876	559100	TT	AA	1946983084
SNP_P4_147274_563235	NW_004516235.1	Scaffold876	563235	CC	TT	1946983086
SNP_P4_147275_563237	NW_004516235.1	Scaffold876	563237	AA	GG	1946983088
SNP_P4_147276_563240	NW_004516235.1	Scaffold876	563240	GG	AA	1946983090
SNP_P4_147277_563360	NW_004516235.1	Scaffold876	563360	CC	TT	1946983092
SNP_P4_147278_563613	NW_004516235.1	Scaffold876	563613	CC	TT	1946983094
SNP_P4_147279_563615	NW_004516235.1	Scaffold876	563615	TT	GG	1946983096
SNP_P4_147280_575088	NW_004516235.1	Scaffold876	575088	CC	TT	1946983098
SNP_P4_147281_575099	NW_004516235.1	Scaffold876	575099	GG	AA	1946983100
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SNP_P4_147283_575236	NW_004516235.1	Scaffold876	575236	AA	CC	1946983105
SNP_P4_147284_575335	NW_004516235.1	Scaffold876	575335	TT	CC	1946983107
SNP_P4_147285_575343	NW_004516235.1	Scaffold876	575343	GG	AA	1946983109
SNP_P4_147286_575463	NW_004516235.1	Scaffold876	575463	CC	AA	1946983111
SNP_P4_147287_575494	NW_004516235.1	Scaffold876	575494	CC	AA	1946983113
SNP_P4_147288_575503	NW_004516235.1	Scaffold876	575503	GG	AA	1946983115
SNP_P4_147289_587065	NW_004516235.1	Scaffold876	587065	TT	CC	1946983117
SNP_P4_147290_589374	NW_004516235.1	Scaffold876	589374	TT	CC	1946983119
SNP_P4_147291_597512	NW_004516235.1	Scaffold876	597512	CC	AA	1946983121
SNP_P4_147293_607197	NW_004516235.1	Scaffold876	607197	GG	AA	1946983123
SNP_P4_147294_607882	NW_004516235.1	Scaffold876	607882	AA	TT	1946983125

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_147296_613590	NW_004516235.1	Scaffold876	613590	TT	CC	1946983129
SNP_P4_147297_614069	NW_004516235.1	Scaffold876	614069	TT	CC	1946983131
SNP_P4_147299_622737	NW_004516235.1	Scaffold876	622737	GG	AA	1946983133
SNP_P4_147300_622820	NW_004516235.1	Scaffold876	622820	GG	AA	1946983135
SNP_P4_147301_93	NW_004516236.1	Scaffold877	93	TT	GG	1946983137
SNP_P4_147302_115	NW_004516236.1	Scaffold877	115	AA	GG	1946983139
SNP_P4_147303_130	NW_004516236.1	Scaffold877	130	GG	CC	1946983141
SNP_P4_147304_272	NW_004516236.1	Scaffold877	272	AA	GG	1946983143
SNP_P4_147305_279	NW_004516236.1	Scaffold877	279	GG	CC	1946983145
SNP_P4_147306_358	NW_004516236.1	Scaffold877	358	TT	CC	1946983147
SNP_P4_147307_390	NW_004516236.1	Scaffold877	390	CC	TT	1946983149
SNP_P4_147308_692	NW_004516236.1	Scaffold877	692	TT	CC	1946983151
SNP_P4_147309_10599	NW_004516236.1	Scaffold877	10599	GG	CC	1946983153
SNP_P4_147310_10711	NW_004516236.1	Scaffold877	10711	AA	CC	1946983155
SNP_P4_147311_10783	NW_004516236.1	Scaffold877	10783	AA	GG	1946983157
SNP_P4_147313_10925	NW_004516236.1	Scaffold877	10925	TT	CC	1946983159
SNP_P4_147314_11050	NW_004516236.1	Scaffold877	11050	AA	GG	1946983161
SNP_P4_147316_11296	NW_004516236.1	Scaffold877	11296	AA	GG	1946983163
SNP_P4_147317_11332	NW_004516236.1	Scaffold877	11332	AA	GG	1946983165
SNP_P4_147318_11432	NW_004516236.1	Scaffold877	11432	CC	TT	1946983167
SNP_P4_147319_11434	NW_004516236.1	Scaffold877	11434	AA	GG	1946983169
SNP_P4_147320_11470	NW_004516236.1	Scaffold877	11470	GG	TT	1946983171
SNP_P4_147321_11531	NW_004516236.1	Scaffold877	11531	AA	GG	1946983173
SNP_P4_147322_11532	NW_004516236.1	Scaffold877	11532	AA	TT	1946983175
SNP_P4_147323_11596	NW_004516236.1	Scaffold877	11596	TT	CC	1946983177
SNP_P4_147324_11607	NW_004516236.1	Scaffold877	11607	AA	TT	1946983179
SNP_P4_147325_11692	NW_004516236.1	Scaffold877	11692	AA	TT	1946983181
SNP_P4_147326_11927	NW_004516236.1	Scaffold877	11927	TT	CC	1946983183
SNP_P4_147327_11965	NW_004516236.1	Scaffold877	11965	AA	GG	1946983185
SNP_P4_147328_14084	NW_004516236.1	Scaffold877	14084	GG	AA	1946983187
SNP_P4_147329_14489	NW_004516236.1	Scaffold877	14489	TT	AA	1946983189
SNP_P4_147330_14530	NW_004516236.1	Scaffold877	14530	AA	GG	1946983191
SNP_P4_147331_14688	NW_004516236.1	Scaffold877	14688	CC	TT	1946983193
SNP_P4_147332_14692	NW_004516236.1	Scaffold877	14692	TT	GG	1946983195
SNP_P4_147333_14701	NW_004516236.1	Scaffold877	14701	GG	AA	1946983197
SNP_P4_147334_14964	NW_004516236.1	Scaffold877	14964	TT	AA	1946983199
SNP_P4_147335_15134	NW_004516236.1	Scaffold877	15134	AA	GG	1946983201
SNP_P4_147336_16149	NW_004516236.1	Scaffold877	16149	CC	GG	1946983203
SNP_P4_147337_16281	NW_004516236.1	Scaffold877	16281	AA	TT	1946983206
SNP_P4_147338_16395	NW_004516236.1	Scaffold877	16395	GG	CC	1946983208
SNP_P4_147339_16839	NW_004516236.1	Scaffold877	16839	TT	GG	1946983210

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_147341_17107	NW_004516236.1	Scaffold877	17107	TT	CC	1946983214
SNP_P4_147343_17472	NW_004516236.1	Scaffold877	17472	CC	AA	1946983216
SNP_P4_147344_17525	NW_004516236.1	Scaffold877	17525	AA	CC	1946983218
SNP_P4_147345_14119	NW_004516237.1	Scaffold878	14119	AA	GG	1946983219
SNP_P4_147346_14705	NW_004516237.1	Scaffold878	14705	AA	CC	1946983221
SNP_P4_147347_14747	NW_004516237.1	Scaffold878	14747	CC	TT	1946983224
SNP_P4_147348_25208	NW_004516237.1	Scaffold878	25208	AA	GG	1946983225
SNP_P4_147349_25236	NW_004516237.1	Scaffold878	25236	GG	AA	1946983227
SNP_P4_147350_25265	NW_004516237.1	Scaffold878	25265	GG	AA	1946983230
SNP_P4_147351_25466	NW_004516237.1	Scaffold878	25466	CC	TT	1946983232
SNP_P4_147352_29591	NW_004516237.1	Scaffold878	29591	AA	GG	1946983234
SNP_P4_147353_34264	NW_004516237.1	Scaffold878	34264	CC	TT	1946983236
SNP_P4_147354_43054	NW_004516237.1	Scaffold878	43054	TT	AA	1946983238
SNP_P4_147355_43055	NW_004516237.1	Scaffold878	43055	AA	TT	1946983240
SNP_P4_147356_43067	NW_004516237.1	Scaffold878	43067	CC	TT	1946983242
SNP_P4_147357_43087	NW_004516237.1	Scaffold878	43087	CC	AA	1946983244
SNP_P4_147358_43383	NW_004516237.1	Scaffold878	43383	TT	GG	1946983246
SNP_P4_147359_43555	NW_004516237.1	Scaffold878	43555	CC	GG	1946983248
SNP_P4_147360_43561	NW_004516237.1	Scaffold878	43561	AA	GG	1946983250
SNP_P4_147361_43564	NW_004516237.1	Scaffold878	43564	TT	AA	1946983252
SNP_P4_147363_58522	NW_004516237.1	Scaffold878	58522	CC	AA	1946983254
SNP_P4_147364_61673	NW_004516237.1	Scaffold878	61673	TT	CC	1946983256
SNP_P4_147365_75018	NW_004516237.1	Scaffold878	75018	GG	AA	1946983259
SNP_P4_147366_75028	NW_004516237.1	Scaffold878	75028	TT	CC	1946983261
SNP_P4_147367_75052	NW_004516237.1	Scaffold878	75052	CC	GG	1946983263
SNP_P4_147368_75076	NW_004516237.1	Scaffold878	75076	AA	GG	1946983265
SNP_P4_147369_75337	NW_004516237.1	Scaffold878	75337	CC	TT	1946983266
SNP_P4_147370_75364	NW_004516237.1	Scaffold878	75364	GG	AA	1946983268
SNP_P4_147371_76516	NW_004516237.1	Scaffold878	76516	TT	CC	1946983270
SNP_P4_147372_79135	NW_004516237.1	Scaffold878	79135	AA	GG	1946983272
SNP_P4_147373_82782	NW_004516237.1	Scaffold878	82782	TT	AA	1946983274
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SNP_P4_147375_93317	NW_004516237.1	Scaffold878	93317	AA	GG	1946983278
SNP_P4_147376_118199	NW_004516237.1	Scaffold878	118199	TT	CC	1946983280
SNP_P4_147377_118340	NW_004516237.1	Scaffold878	118340	CC	TT	1946983282
SNP_P4_147378_118473	NW_004516237.1	Scaffold878	118473	GG	AA	1946983284
SNP_P4_147379_118565	NW_004516237.1	Scaffold878	118565	AA	GG	1946983286
SNP_P4_147380_118604	NW_004516237.1	Scaffold878	118604	CC	TT	1946983288
SNP_P4_147381_118833	NW_004516237.1	Scaffold878	118833	GG	AA	1946983290
SNP_P4_147382_118839	NW_004516237.1	Scaffold878	118839	TT	CC	1946983292
SNP_P4_147383_118846	NW_004516237.1	Scaffold878	118846	AA	GG	1946983294

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_147386_119045	NW_004516237.1	Scaffold878	119045	GG	TT	1946983299
SNP_P4_147387_119113	NW_004516237.1	Scaffold878	119113	TT	CC	1946983301
SNP_P4_147388_119168	NW_004516237.1	Scaffold878	119168	GG	AA	1946983303
SNP_P4_147389_119204	NW_004516237.1	Scaffold878	119204	AA	GG	1946983305
SNP_P4_147390_119265	NW_004516237.1	Scaffold878	119265	AA	GG	1946983307
SNP_P4_147391_119267	NW_004516237.1	Scaffold878	119267	AA	TT	1946983309
SNP_P4_147392_121423	NW_004516237.1	Scaffold878	121423	AA	GG	1946983310
SNP_P4_147393_121426	NW_004516237.1	Scaffold878	121426	CC	AA	1946983312
SNP_P4_147394_5351	NW_004516239.1	Scaffold882	5351	GG	AA	1946983314
SNP_P4_147395_8762	NW_004516239.1	Scaffold882	8762	CC	TT	1946983316
SNP_P4_147396_10312	NW_004516239.1	Scaffold882	10312	TT	CC	1946983318
SNP_P4_147397_27216	NW_004516239.1	Scaffold882	27216	AA	TT	1946983320
SNP_P4_147398_27222	NW_004516239.1	Scaffold882	27222	CC	TT	1946983322
SNP_P4_147399_27223	NW_004516239.1	Scaffold882	27223	AA	CC	1946983324
SNP_P4_147400_27224	NW_004516239.1	Scaffold882	27224	AA	CC	1946983326
SNP_P4_147401_27226	NW_004516239.1	Scaffold882	27226	TT	AA	1946983328
SNP_P4_147402_32676	NW_004516239.1	Scaffold882	32676	TT	GG	1946983330
SNP_P4_147404_39621	NW_004516239.1	Scaffold882	39621	GG	AA	1946983333
SNP_P4_147405_39664	NW_004516239.1	Scaffold882	39664	TT	CC	1946983335
SNP_P4_147406_39886	NW_004516239.1	Scaffold882	39886	GG	CC	1946983337
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SNP_P4_147408_69506	NW_004516239.1	Scaffold882	69506	CC	TT	1946983341
SNP_P4_147409_69509	NW_004516239.1	Scaffold882	69509	AA	GG	1946983343
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SNP_P4_147416_70616	NW_004516239.1	Scaffold882	70616	TT	CC	1946983355
SNP_P4_147417_70663	NW_004516239.1	Scaffold882	70663	TT	CC	1946983357
SNP_P4_147418_70679	NW_004516239.1	Scaffold882	70679	TT	CC	1946983360
SNP_P4_147419_81254	NW_004516239.1	Scaffold882	81254	CC	AA	1946983362
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SNP_P4_147421_94773	NW_004516239.1	Scaffold882	94773	TT	CC	1946983366
SNP_P4_147423_95135	NW_004516239.1	Scaffold882	95135	GG	AA	1946983368
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SNP_P4_147426_100551	NW_004516239.1	Scaffold882	100551	TT	CC	1946983372
SNP_P4_147427_100823	NW_004516239.1	Scaffold882	100823	GG	AA	1946983374
SNP_P4_147428_100833	NW_004516239.1	Scaffold882	100833	CC	TT	1946983376
SNP_P4_147429_100842	NW_004516239.1	Scaffold882	100842	GG	AA	1946983378

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_147432_126732	NW_004516239.1	Scaffold882	126732	GG	AA	1946983384
SNP_P4_147433_208312	NW_004516239.1	Scaffold882	208312	GG	TT	1946983386
SNP_P4_147434_213836	NW_004516239.1	Scaffold882	213836	CC	GG	1946983388
SNP_P4_147435_238102	NW_004516239.1	Scaffold882	238102	TT	GG	1946983390
SNP_P4_147436_238939	NW_004516239.1	Scaffold882	238939	GG	AA	1946983392
SNP_P4_147437_252348	NW_004516239.1	Scaffold882	252348	AA	TT	1946983394
SNP_P4_147438_266509	NW_004516239.1	Scaffold882	266509	TT	CC	1946983396
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SNP_P4_147443_347183	NW_004516239.1	Scaffold882	347183	AA	CC	1946983402
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SNP_P4_147445_347238	NW_004516239.1	Scaffold882	347238	GG	CC	1946983406
SNP_P4_147446_347249	NW_004516239.1	Scaffold882	347249	TT	GG	1946983408
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SNP_P4_147459_349223	NW_004516239.1	Scaffold882	349223	TT	AA	1946983435
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SNP_P4_147465_389804	NW_004516239.1	Scaffold882	389804	GG	AA	1946983447
SNP_P4_147466_389846	NW_004516239.1	Scaffold882	389846	TT	CC	1946983449
SNP_P4_147467_389849	NW_004516239.1	Scaffold882	389849	AA	GG	1946983450
SNP_P4_147468_389852	NW_004516239.1	Scaffold882	389852	GG	AA	1946983452
SNP_P4_147469_389855	NW_004516239.1	Scaffold882	389855	GG	AA	1946983454
SNP_P4_147470_389861	NW_004516239.1	Scaffold882	389861	GG	AA	1946983456
SNP_P4_147471_389943	NW_004516239.1	Scaffold882	389943	AA	GG	1946983458
SNP_P4_147472_390028	NW_004516239.1	Scaffold882	390028	TT	CC	1946983460
SNP_P4_147473_390033	NW_004516239.1	Scaffold882	390033	AA	GG	1946983462

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_147474_401046	NW_004516239.1	Scaffold882	401046	TT	CC	1946983464
SNP_P4_147475_407529	NW_004516239.1	Scaffold882	407529	AA	GG	1946983466
SNP_P4_147476_426790	NW_004516239.1	Scaffold882	426790	GG	AA	1946983468
SNP_P4_147477_427232	NW_004516239.1	Scaffold882	427232	GG	AA	1946983470
SNP_P4_147478_428115	NW_004516239.1	Scaffold882	428115	CC	TT	1946983472
SNP_P4_147479_428151	NW_004516239.1	Scaffold882	428151	CC	TT	1946983474
SNP_P4_147480_428187	NW_004516239.1	Scaffold882	428187	TT	CC	1946983475
SNP_P4_147481_428861	NW_004516239.1	Scaffold882	428861	AA	GG	1946983477
SNP_P4_147482_429160	NW_004516239.1	Scaffold882	429160	TT	CC	1946983479
SNP_P4_147483_429605	NW_004516239.1	Scaffold882	429605	CC	GG	1946983481
SNP_P4_147484_429815	NW_004516239.1	Scaffold882	429815	GG	AA	1946983483
SNP_P4_147485_430625	NW_004516239.1	Scaffold882	430625	GG	CC	1946983485
SNP_P4_147486_431694	NW_004516239.1	Scaffold882	431694	CC	GG	1946983486
SNP_P4_147487_431971	NW_004516239.1	Scaffold882	431971	GG	TT	1946983488
SNP_P4_147488_432226	NW_004516239.1	Scaffold882	432226	TT	GG	1946983490
SNP_P4_147489_432229	NW_004516239.1	Scaffold882	432229	GG	TT	1946983492
SNP_P4_147490_432576	NW_004516239.1	Scaffold882	432576	GG	AA	1946983494
SNP_P4_147492_434547	NW_004516239.1	Scaffold882	434547	TT	GG	1946983496
SNP_P4_147493_436494	NW_004516239.1	Scaffold882	436494	GG	CC	1946983498
SNP_P4_147494_436497	NW_004516239.1	Scaffold882	436497	AA	GG	1946983500
SNP_P4_147495_437604	NW_004516239.1	Scaffold882	437604	CC	TT	1946983502
SNP_P4_147496_438431	NW_004516239.1	Scaffold882	438431	CC	TT	1946983504
SNP_P4_147497_438519	NW_004516239.1	Scaffold882	438519	GG	AA	1946983506
SNP_P4_147498_438647	NW_004516239.1	Scaffold882	438647	TT	CC	1946983508
SNP_P4_147500_439019	NW_004516239.1	Scaffold882	439019	AA	GG	1946983510
SNP_P4_147502_447929	NW_004516239.1	Scaffold882	447929	GG	TT	1946983512
SNP_P4_147503_448002	NW_004516239.1	Scaffold882	448002	CC	TT	1946983514
SNP_P4_147504_448086	NW_004516239.1	Scaffold882	448086	AA	GG	1946983516
SNP_P4_147505_448165	NW_004516239.1	Scaffold882	448165	AA	GG	1946983519
SNP_P4_147506_448346	NW_004516239.1	Scaffold882	448346	GG	TT	1946983521
SNP_P4_147507_476570	NW_004516239.1	Scaffold882	476570	AA	GG	1946983522
SNP_P4_147508_476822	NW_004516239.1	Scaffold882	476822	CC	AA	1946983524
SNP_P4_147509_476884	NW_004516239.1	Scaffold882	476884	CC	AA	1946983526
SNP_P4_147510_477107	NW_004516239.1	Scaffold882	477107	GG	AA	1946983528
SNP_P4_147512_513700	NW_004516239.1	Scaffold882	513700	GG	AA	1946983530
SNP_P4_147513_517442	NW_004516239.1	Scaffold882	517442	AA	CC	1946983532
SNP_P4_147514_517749	NW_004516239.1	Scaffold882	517749	TT	GG	1946983534
SNP_P4_147515_523007	NW_004516239.1	Scaffold882	523007	CC	TT	1946983536
SNP_P4_147516_523371	NW_004516239.1	Scaffold882	523371	AA	GG	1946983539
SNP_P4_147517_523449	NW_004516239.1	Scaffold882	523449	TT	CC	1946983540
SNP_P4_147518_523478	NW_004516239.1	Scaffold882	523478	AA	GG	1946983542
SNP_P4_147519_523493	NW_004516239.1	Scaffold882	523493	AA	GG	1946983544

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_147520_526291	NW_004516239.1	Scaffold882	526291	CC	TT	1946983547
SNP_P4_147521_563626	NW_004516239.1	Scaffold882	563626	GG	AA	1946983549
SNP_P4_147522_563885	NW_004516239.1	Scaffold882	563885	CC	AA	1946983551
SNP_P4_147523_567597	NW_004516239.1	Scaffold882	567597	GG	AA	1946983553
SNP_P4_147524_583825	NW_004516239.1	Scaffold882	583825	AA	CC	1946983555
SNP_P4_147525_583841	NW_004516239.1	Scaffold882	583841	TT	GG	1946983557
SNP_P4_147526_584120	NW_004516239.1	Scaffold882	584120	CC	AA	1946983559
SNP_P4_147527_584235	NW_004516239.1	Scaffold882	584235	TT	CC	1946983561
SNP_P4_147528_592734	NW_004516239.1	Scaffold882	592734	TT	CC	1946983563
SNP_P4_147529_607325	NW_004516239.1	Scaffold882	607325	AA	GG	1946983565
SNP_P4_147530_607345	NW_004516239.1	Scaffold882	607345	TT	CC	1946983567
SNP_P4_147531_607467	NW_004516239.1	Scaffold882	607467	AA	GG	1946983569
SNP_P4_147532_607494	NW_004516239.1	Scaffold882	607494	CC	TT	1946983571
SNP_P4_147533_607506	NW_004516239.1	Scaffold882	607506	TT	CC	1946983573
SNP_P4_147534_607533	NW_004516239.1	Scaffold882	607533	AA	GG	1946983575
SNP_P4_147535_607562	NW_004516239.1	Scaffold882	607562	TT	CC	1946983577
SNP_P4_147536_607571	NW_004516239.1	Scaffold882	607571	GG	TT	1946983579
SNP_P4_147537_607740	NW_004516239.1	Scaffold882	607740	TT	CC	1946983580
SNP_P4_147538_607762	NW_004516239.1	Scaffold882	607762	TT	GG	1946983582
SNP_P4_147539_607783	NW_004516239.1	Scaffold882	607783	TT	CC	1946983585
SNP_P4_147540_607789	NW_004516239.1	Scaffold882	607789	AA	GG	1946983587
SNP_P4_147541_607888	NW_004516239.1	Scaffold882	607888	TT	GG	1946983589
SNP_P4_147542_615958	NW_004516239.1	Scaffold882	615958	GG	AA	1946983591
SNP_P4_147543_615959	NW_004516239.1	Scaffold882	615959	TT	AA	1946983593
SNP_P4_147544_621477	NW_004516239.1	Scaffold882	621477	CC	AA	1946983595
SNP_P4_147545_621486	NW_004516239.1	Scaffold882	621486	AA	CC	1946983597
SNP_P4_147546_621493	NW_004516239.1	Scaffold882	621493	AA	CC	1946983599
SNP_P4_147547_621720	NW_004516239.1	Scaffold882	621720	TT	GG	1946983601
SNP_P4_147548_621751	NW_004516239.1	Scaffold882	621751	CC	TT	1946983604
SNP_P4_147550_26289	NW_004516241.1	Scaffold884	26289	TT	CC	1946983606
SNP_P4_147551_35975	NW_004516241.1	Scaffold884	35975	CC	TT	1946983608
SNP_P4_147552_52525	NW_004516241.1	Scaffold884	52525	TT	GG	1946983610
SNP_P4_147553_77776	NW_004516241.1	Scaffold884	77776	AA	TT	1946983612
SNP_P4_147554_82938	NW_004516241.1	Scaffold884	82938	CC	TT	1946983614
SNP_P4_147555_97094	NW_004516241.1	Scaffold884	97094	AA	GG	1946983616
SNP_P4_147556_97239	NW_004516241.1	Scaffold884	97239	GG	AA	1946983618
SNP_P4_147557_107919	NW_004516241.1	Scaffold884	107919	CC	TT	1946983620
SNP_P4_147558_120034	NW_004516241.1	Scaffold884	120034	CC	AA	1946983622
SNP_P4_147559_120051	NW_004516241.1	Scaffold884	120051	GG	AA	1946983625
SNP_P4_147561_135309	NW_004516241.1	Scaffold884	135309	AA	CC	1946983627
SNP_P4_147562_135329	NW_004516241.1	Scaffold884	135329	GG	AA	1946983629
SNP_P4_147563_135344	NW_004516241.1	Scaffold884	135344	GG	AA	1946983631

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_147565_135688	NW_004516241.1	Scaffold884	135688	AA	GG	1946983636
SNP_P4_147566_135693	NW_004516241.1	Scaffold884	135693	TT	CC	1946983638
SNP_P4_147567_135694	NW_004516241.1	Scaffold884	135694	AA	GG	1946983640
SNP_P4_147568_135732	NW_004516241.1	Scaffold884	135732	GG	AA	1946983642
SNP_P4_147569_135883	NW_004516241.1	Scaffold884	135883	AA	GG	1946983645
SNP_P4_147570_157815	NW_004516241.1	Scaffold884	157815	AA	CC	1946983647
SNP_P4_147571_52602	NW_004516242.1	Scaffold886	52602	CC	TT	1946983649
SNP_P4_147573_57418	NW_004516242.1	Scaffold886	57418	AA	GG	1946983651
SNP_P4_147574_101903	NW_004516242.1	Scaffold886	101903	AA	CC	1946983653
SNP_P4_147575_101907	NW_004516242.1	Scaffold886	101907	GG	TT	1946983655
SNP_P4_147577_103252	NW_004516242.1	Scaffold886	103252	TT	AA	1946983657
SNP_P4_147578_104926	NW_004516242.1	Scaffold886	104926	AA	GG	1946983659
SNP_P4_147580_140687	NW_004516242.1	Scaffold886	140687	GG	AA	1946983661
SNP_P4_147581_151209	NW_004516242.1	Scaffold886	151209	GG	AA	1946983663
SNP_P4_147583_151317	NW_004516242.1	Scaffold886	151317	TT	GG	1946983665
SNP_P4_147584_151384	NW_004516242.1	Scaffold886	151384	TT	CC	1946983667
SNP_P4_147585_151410	NW_004516242.1	Scaffold886	151410	CC	AA	1946983669
SNP_P4_147586_151416	NW_004516242.1	Scaffold886	151416	GG	AA	1946983671
SNP_P4_147588_151479	NW_004516242.1	Scaffold886	151479	TT	GG	1946983673
SNP_P4_147590_151520	NW_004516242.1	Scaffold886	151520	AA	GG	1946983675
SNP_P4_147591_151532	NW_004516242.1	Scaffold886	151532	CC	TT	1946983677
SNP_P4_147592_151618	NW_004516242.1	Scaffold886	151618	GG	TT	1946983679
SNP_P4_147593_153201	NW_004516242.1	Scaffold886	153201	GG	AA	1946983681
SNP_P4_147594_153205	NW_004516242.1	Scaffold886	153205	CC	TT	1946983683
SNP_P4_147595_153252	NW_004516242.1	Scaffold886	153252	AA	GG	1946983685
SNP_P4_147596_153262	NW_004516242.1	Scaffold886	153262	GG	AA	1946983687
SNP_P4_147597_153279	NW_004516242.1	Scaffold886	153279	CC	GG	1946983689
SNP_P4_147598_153575	NW_004516242.1	Scaffold886	153575	TT	CC	1946983691
SNP_P4_147599_153591	NW_004516242.1	Scaffold886	153591	TT	CC	1946983693
SNP_P4_147600_153616	NW_004516242.1	Scaffold886	153616	CC	AA	1946983695
SNP_P4_147601_154414	NW_004516242.1	Scaffold886	154414	CC	TT	1946983697
SNP_P4_147602_154569	NW_004516242.1	Scaffold886	154569	TT	GG	1946983699
SNP_P4_147603_154725	NW_004516242.1	Scaffold886	154725	CC	AA	1946983701
SNP_P4_147604_154752	NW_004516242.1	Scaffold886	154752	CC	TT	1946983703
SNP_P4_147605_154789	NW_004516242.1	Scaffold886	154789	AA	TT	1946983705
SNP_P4_147606_154793	NW_004516242.1	Scaffold886	154793	CC	AA	1946983707
SNP_P4_147607_154829	NW_004516242.1	Scaffold886	154829	GG	TT	1946983709
SNP_P4_147608_154841	NW_004516242.1	Scaffold886	154841	GG	TT	1946983711
SNP_P4_147609_154900	NW_004516242.1	Scaffold886	154900	TT	GG	1946983713
SNP_P4_147610_154915	NW_004516242.1	Scaffold886	154915	GG	TT	1946983715
SNP_P4_147611_160683	NW_004516242.1	Scaffold886	160683	TT	AA	1946983717

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_147612_160775	NW_004516242.1	Scaffold886	160775	AA	GG	1946983719
SNP_P4_147613_160988	NW_004516242.1	Scaffold886	160988	TT	GG	1946983721
SNP_P4_147614_160999	NW_004516242.1	Scaffold886	160999	CC	TT	1946983723
SNP_P4_147615_161010	NW_004516242.1	Scaffold886	161010	TT	GG	1946983725
SNP_P4_147616_161031	NW_004516242.1	Scaffold886	161031	CC	GG	1946983727
SNP_P4_147617_161210	NW_004516242.1	Scaffold886	161210	GG	AA	1946983729
SNP_P4_147618_161401	NW_004516242.1	Scaffold886	161401	TT	CC	1946983731
SNP_P4_147619_164430	NW_004516242.1	Scaffold886	164430	AA	CC	1946983733
SNP_P4_147620_164450	NW_004516242.1	Scaffold886	164450	CC	GG	1946983736
SNP_P4_147621_164480	NW_004516242.1	Scaffold886	164480	TT	CC	1946983738
SNP_P4_147622_164494	NW_004516242.1	Scaffold886	164494	GG	AA	1946983740
SNP_P4_147623_164706	NW_004516242.1	Scaffold886	164706	TT	CC	1946983742
SNP_P4_147624_164708	NW_004516242.1	Scaffold886	164708	CC	TT	1946983744
SNP_P4_147625_164923	NW_004516242.1	Scaffold886	164923	TT	CC	1946983746
SNP_P4_147626_165030	NW_004516242.1	Scaffold886	165030	GG	AA	1946983748
SNP_P4_147627_165092	NW_004516242.1	Scaffold886	165092	TT	CC	1946983750
SNP_P4_147628_165113	NW_004516242.1	Scaffold886	165113	AA	GG	1946983752
SNP_P4_147629_165126	NW_004516242.1	Scaffold886	165126	AA	CC	1946983754
SNP_P4_147630_171192	NW_004516242.1	Scaffold886	171192	TT	AA	1946983756
SNP_P4_147631_171209	NW_004516242.1	Scaffold886	171209	GG	AA	1946983758
SNP_P4_147632_171232	NW_004516242.1	Scaffold886	171232	TT	GG	1946983760
SNP_P4_147633_172416	NW_004516242.1	Scaffold886	172416	AA	GG	1946983762
SNP_P4_147634_172420	NW_004516242.1	Scaffold886	172420	TT	AA	1946983764
SNP_P4_147635_172524	NW_004516242.1	Scaffold886	172524	CC	AA	1946983766
SNP_P4_147636_172532	NW_004516242.1	Scaffold886	172532	GG	AA	1946983768
SNP_P4_147638_172688	NW_004516242.1	Scaffold886	172688	AA	TT	1946983771
SNP_P4_147639_172906	NW_004516242.1	Scaffold886	172906	AA	GG	1946983773
SNP_P4_147640_172919	NW_004516242.1	Scaffold886	172919	TT	CC	1946983775
SNP_P4_147641_69821	NW_004516243.1	Scaffold887_1	69821	AA	CC	1946983777
SNP_P4_147642_69848	NW_004516243.1	Scaffold887_1	69848	AA	CC	1946983779
SNP_P4_147643_69884	NW_004516243.1	Scaffold887_1	69884	GG	TT	1946983781
SNP_P4_147644_69890	NW_004516243.1	Scaffold887_1	69890	AA	GG	1946983783
SNP_P4_147645_69906	NW_004516243.1	Scaffold887_1	69906	AA	GG	1946983785
SNP_P4_147646_69916	NW_004516243.1	Scaffold887_1	69916	TT	CC	1946983787
SNP_P4_147647_69923	NW_004516243.1	Scaffold887_1	69923	TT	CC	1946983789
SNP_P4_147648_69924	NW_004516243.1	Scaffold887_1	69924	CC	TT	1946983791
SNP_P4_147649_69944	NW_004516243.1	Scaffold887_1	69944	TT	CC	1946983793
SNP_P4_147650_70025	NW_004516243.1	Scaffold887_1	70025	AA	CC	1946983795
SNP_P4_147651_70030	NW_004516243.1	Scaffold887_1	70030	AA	GG	1946983797
SNP_P4_147652_70033	NW_004516243.1	Scaffold887_1	70033	AA	GG	1946983799
SNP_P4_147653_70077	NW_004516243.1	Scaffold887_1	70077	AA	CC	1946983801
SNP_P4_147654_70102	NW_004516243.1	Scaffold887_1	70102	AA	GG	1946983803

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_147655_70108	NW_004516243.1	Scaffold887_1	70108	AA	GG	1946983805
SNP_P4_147656_70138	NW_004516243.1	Scaffold887_1	70138	TT	AA	1946983808
SNP_P4_147657_70161	NW_004516243.1	Scaffold887_1	70161	GG	AA	1946983810
SNP_P4_147658_70164	NW_004516243.1	Scaffold887_1	70164	AA	CC	1946983812
SNP_P4_147659_70184	NW_004516243.1	Scaffold887_1	70184	AA	CC	1946983814
SNP_P4_147660_70214	NW_004516243.1	Scaffold887_1	70214	AA	GG	1946983816
SNP_P4_147661_70238	NW_004516243.1	Scaffold887_1	70238	TT	CC	1946983818
SNP_P4_147662_70246	NW_004516243.1	Scaffold887_1	70246	GG	AA	1946983820
SNP_P4_147663_70263	NW_004516243.1	Scaffold887_1	70263	AA	CC	1946983822
SNP_P4_147664_70279	NW_004516243.1	Scaffold887_1	70279	AA	GG	1946983824
SNP_P4_147665_70311	NW_004516243.1	Scaffold887_1	70311	AA	GG	1946983825
SNP_P4_147666_70314	NW_004516243.1	Scaffold887_1	70314	TT	GG	1946983827
SNP_P4_147667_73081	NW_004516243.1	Scaffold887_1	73081	AA	GG	1946983829
SNP_P4_147669_131608	NW_004516243.1	Scaffold887_1	131608	TT	CC	1946983831
SNP_P4_147670_131611	NW_004516243.1	Scaffold887_1	131611	TT	CC	1946983833
SNP_P4_147671_159041	NW_004516243.1	Scaffold887_1	159041	GG	AA	1946983835
SNP_P4_147673_196850	NW_004516243.1	Scaffold887_1	196850	GG	AA	1946983837
SNP_P4_147674_200800	NW_004516243.1	Scaffold887_1	200800	AA	GG	1946983839
SNP_P4_147675_200911	NW_004516243.1	Scaffold887_1	200911	TT	GG	1946983841
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SNP_P4_147677_200985	NW_004516243.1	Scaffold887_1	200985	AA	CC	1946983844
SNP_P4_147678_200994	NW_004516243.1	Scaffold887_1	200994	CC	TT	1946983846
SNP_P4_147679_201178	NW_004516243.1	Scaffold887_1	201178	AA	GG	1946983848
SNP_P4_147680_201187	NW_004516243.1	Scaffold887_1	201187	TT	CC	1946983850
SNP_P4_147682_208265	NW_004516243.1	Scaffold887_1	208265	CC	TT	1946983852
SNP_P4_147683_208299	NW_004516243.1	Scaffold887_1	208299	AA	GG	1946983854
SNP_P4_147684_208551	NW_004516243.1	Scaffold887_1	208551	TT	CC	1946983856
SNP_P4_147685_208572	NW_004516243.1	Scaffold887_1	208572	GG	AA	1946983858
SNP_P4_147686_234624	NW_004516243.1	Scaffold887_1	234624	CC	AA	1946983860
SNP_P4_147687_239326	NW_004516243.1	Scaffold887_1	239326	AA	TT	1946983861
SNP_P4_147689_243979	NW_004516243.1	Scaffold887_1	243979	GG	AA	1946983862
SNP_P4_147690_244399	NW_004516243.1	Scaffold887_1	244399	AA	GG	1946983863
SNP_P4_147691_245962	NW_004516243.1	Scaffold887_1	245962	TT	CC	1946983864
SNP_P4_147692_246167	NW_004516243.1	Scaffold887_1	246167	CC	TT	1946983865
SNP_P4_147693_246176	NW_004516243.1	Scaffold887_1	246176	GG	AA	1946983867
SNP_P4_147694_246200	NW_004516243.1	Scaffold887_1	246200	AA	GG	1946983869
SNP_P4_147695_246214	NW_004516243.1	Scaffold887_1	246214	TT	CC	1946983871
SNP_P4_147696_246232	NW_004516243.1	Scaffold887_1	246232	GG	AA	1946983873
SNP_P4_147697_247358	NW_004516243.1	Scaffold887_1	247358	AA	GG	1946983875
SNP_P4_147698_247388	NW_004516243.1	Scaffold887_1	247388	TT	AA	1946983877
SNP_P4_147699_247390	NW_004516243.1	Scaffold887_1	247390	GG	CC	1946983879
SNP_P4_147700_247395	NW_004516243.1	Scaffold887_1	247395	AA	CC	1946983881

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_147701_247400	NW_004516243.1	Scaffold887_1	247400	CC	TT	1946983883
SNP_P4_147702_247407	NW_004516243.1	Scaffold887_1	247407	CC	TT	1946983885
SNP_P4_147703_250615	NW_004516243.1	Scaffold887_1	250615	GG	AA	1946983887
SNP_P4_147704_250623	NW_004516243.1	Scaffold887_1	250623	TT	CC	1946983889
SNP_P4_147705_253469	NW_004516243.1	Scaffold887_1	253469	AA	GG	1946983891
SNP_P4_147706_258472	NW_004516243.1	Scaffold887_1	258472	CC	TT	1946983893
SNP_P4_147707_258541	NW_004516243.1	Scaffold887_1	258541	GG	CC	1946983895
SNP_P4_147708_258546	NW_004516243.1	Scaffold887_1	258546	CC	AA	1946983897
SNP_P4_147709_258571	NW_004516243.1	Scaffold887_1	258571	TT	CC	1946983899
SNP_P4_147710_258891	NW_004516243.1	Scaffold887_1	258891	CC	TT	1946983902
SNP_P4_147711_95	NW_004516244.1	Scaffold889	95	TT	GG	1946983904
SNP_P4_147712_65	NW_004516245.1	Scaffold890	65	AA	GG	1946983906
SNP_P4_147713_266	NW_004516245.1	Scaffold890	266	GG	CC	1946983908
SNP_P4_147714_308	NW_004516245.1	Scaffold890	308	GG	AA	1946983910
SNP_P4_147716_414	NW_004516245.1	Scaffold890	414	CC	TT	1946983912
SNP_P4_147717_415	NW_004516245.1	Scaffold890	415	AA	GG	1946983914
SNP_P4_147718_430	NW_004516245.1	Scaffold890	430	AA	TT	1946983916
SNP_P4_147719_470	NW_004516245.1	Scaffold890	470	GG	AA	1946983918
SNP_P4_147720_482	NW_004516245.1	Scaffold890	482	AA	GG	1946983920
SNP_P4_147721_538	NW_004516245.1	Scaffold890	538	AA	TT	1946983922
SNP_P4_147722_546	NW_004516245.1	Scaffold890	546	TT	AA	1946983924
SNP_P4_147723_653	NW_004516245.1	Scaffold890	653	AA	CC	1946983926
SNP_P4_147724_705	NW_004516245.1	Scaffold890	705	AA	GG	1946983928
SNP_P4_147725_826	NW_004516245.1	Scaffold890	826	AA	TT	1946983930
SNP_P4_147726_872	NW_004516245.1	Scaffold890	872	GG	AA	1946983932
SNP_P4_147727_1008	NW_004516245.1	Scaffold890	1008	TT	CC	1946983934
SNP_P4_147728_1031	NW_004516245.1	Scaffold890	1031	AA	GG	1946983936
SNP_P4_147729_1083	NW_004516245.1	Scaffold890	1083	CC	AA	1946983938
SNP_P4_147730_1452	NW_004516245.1	Scaffold890	1452	CC	TT	1946983940
SNP_P4_147732_5788	NW_004516247.1	Scaffold892	5788	AA	TT	1946983942
SNP_P4_147733_5818	NW_004516247.1	Scaffold892	5818	GG	TT	1946983944
SNP_P4_147734_6008	NW_004516247.1	Scaffold892	6008	CC	TT	1946983946
SNP_P4_147735_6325	NW_004516247.1	Scaffold892	6325	AA	TT	1946983949
SNP_P4_147736_6439	NW_004516247.1	Scaffold892	6439	GG	AA	1946983951
SNP_P4_147737_6559	NW_004516247.1	Scaffold892	6559	AA	GG	1946983953
SNP_P4_147738_24741	NW_004516247.1	Scaffold892	24741	GG	CC	1946983955
SNP_P4_147739_24826	NW_004516247.1	Scaffold892	24826	AA	GG	1946983957
SNP_P4_147740_24827	NW_004516247.1	Scaffold892	24827	CC	AA	1946983959
SNP_P4_147741_24888	NW_004516247.1	Scaffold892	24888	AA	GG	1946983961
SNP_P4_147742_24948	NW_004516247.1	Scaffold892	24948	GG	AA	1946983964
SNP_P4_147743_24982	NW_004516247.1	Scaffold892	24982	CC	TT	1946983966
SNP_P4_147744_24986	NW_004516247.1	Scaffold892	24986	GG	AA	1946983968

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_147746_24991	NW_004516247.1	Scaffold892	24991	TT	AA	1946983972
SNP_P4_147747_25182	NW_004516247.1	Scaffold892	25182	TT	AA	1946983974
SNP_P4_147748_25207	NW_004516247.1	Scaffold892	25207	GG	AA	1946983976
SNP_P4_147749_25209	NW_004516247.1	Scaffold892	25209	TT	CC	1946983978
SNP_P4_147750_25260	NW_004516247.1	Scaffold892	25260	TT	GG	1946983980
SNP_P4_147751_25272	NW_004516247.1	Scaffold892	25272	AA	GG	1946983982
SNP_P4_147752_25325	NW_004516247.1	Scaffold892	25325	TT	CC	1946983984
SNP_P4_147754_26350	NW_004516247.1	Scaffold892	26350	TT	CC	1946983986
SNP_P4_147755_26357	NW_004516247.1	Scaffold892	26357	GG	CC	1946983988
SNP_P4_147756_26483	NW_004516247.1	Scaffold892	26483	AA	TT	1946983990
SNP_P4_147757_26493	NW_004516247.1	Scaffold892	26493	AA	CC	1946983992
SNP_P4_147758_26500	NW_004516247.1	Scaffold892	26500	TT	AA	1946983994
SNP_P4_147760_26640	NW_004516247.1	Scaffold892	26640	CC	TT	1946983996
SNP_P4_147761_26678	NW_004516247.1	Scaffold892	26678	GG	TT	1946983998
SNP_P4_147762_26679	NW_004516247.1	Scaffold892	26679	AA	TT	1946983999
SNP_P4_147764_26725	NW_004516247.1	Scaffold892	26725	CC	AA	1946984001
SNP_P4_147765_26800	NW_004516247.1	Scaffold892	26800	TT	AA	1946984003
SNP_P4_147766_26856	NW_004516247.1	Scaffold892	26856	TT	GG	1946984005
SNP_P4_147767_26871	NW_004516247.1	Scaffold892	26871	TT	CC	1946984007
SNP_P4_147768_26890	NW_004516247.1	Scaffold892	26890	CC	TT	1946984009
SNP_P4_147769_26904	NW_004516247.1	Scaffold892	26904	TT	CC	1946984011
SNP_P4_147770_26964	NW_004516247.1	Scaffold892	26964	CC	GG	1946984013
SNP_P4_147771_27181	NW_004516247.1	Scaffold892	27181	TT	GG	1946984015
SNP_P4_147772_27270	NW_004516247.1	Scaffold892	27270	TT	CC	1946984017
SNP_P4_147773_27315	NW_004516247.1	Scaffold892	27315	TT	GG	1946984019
SNP_P4_147774_27376	NW_004516247.1	Scaffold892	27376	CC	TT	1946984021
SNP_P4_147775_27389	NW_004516247.1	Scaffold892	27389	TT	AA	1946984023
SNP_P4_147776_27431	NW_004516247.1	Scaffold892	27431	AA	CC	1946984025
SNP_P4_147777_27491	NW_004516247.1	Scaffold892	27491	CC	GG	1946984027
SNP_P4_147778_27603	NW_004516247.1	Scaffold892	27603	AA	TT	1946984029
SNP_P4_147779_27605	NW_004516247.1	Scaffold892	27605	CC	TT	1946984031
SNP_P4_147780_27680	NW_004516247.1	Scaffold892	27680	AA	GG	1946984033
SNP_P4_147781_27719	NW_004516247.1	Scaffold892	27719	AA	TT	1946984035
SNP_P4_147782_28128	NW_004516247.1	Scaffold892	28128	GG	TT	1946984038
SNP_P4_147783_28212	NW_004516247.1	Scaffold892	28212	TT	AA	1946984040
SNP_P4_147784_28262	NW_004516247.1	Scaffold892	28262	TT	CC	1946984042
SNP_P4_147785_28419	NW_004516247.1	Scaffold892	28419	TT	CC	1946984044
SNP_P4_147787_28569	NW_004516247.1	Scaffold892	28569	AA	CC	1946984046
SNP_P4_147788_29190	NW_004516247.1	Scaffold892	29190	GG	TT	1946984048
SNP_P4_147789_29316	NW_004516247.1	Scaffold892	29316	GG	TT	1946984050
SNP_P4_147790_29588	NW_004516247.1	Scaffold892	29588	CC	TT	1946984052

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_147793_29952	NW_004516247.1	Scaffold892	29952	GG	AA	1946984056
SNP_P4_147794_30011	NW_004516247.1	Scaffold892	30011	GG	TT	1946984058
SNP_P4_147795_30054	NW_004516247.1	Scaffold892	30054	GG	TT	1946984059
SNP_P4_147796_30254	NW_004516247.1	Scaffold892	30254	TT	AA	1946984061
SNP_P4_147797_30275	NW_004516247.1	Scaffold892	30275	AA	TT	1946984063
SNP_P4_147798_30278	NW_004516247.1	Scaffold892	30278	AA	TT	1946984065
SNP_P4_147799_30331	NW_004516247.1	Scaffold892	30331	TT	CC	1946984066
SNP_P4_147800_30377	NW_004516247.1	Scaffold892	30377	AA	GG	1946984067
SNP_P4_147801_30793	NW_004516247.1	Scaffold892	30793	CC	GG	1946984069
SNP_P4_147802_32627	NW_004516247.1	Scaffold892	32627	CC	AA	1946984071
SNP_P4_147803_32663	NW_004516247.1	Scaffold892	32663	TT	AA	1946984073
SNP_P4_147804_32700	NW_004516247.1	Scaffold892	32700	GG	AA	1946984074
SNP_P4_147805_32752	NW_004516247.1	Scaffold892	32752	TT	GG	1946984076
SNP_P4_147806_32804	NW_004516247.1	Scaffold892	32804	TT	GG	1946984078
SNP_P4_147807_32884	NW_004516247.1	Scaffold892	32884	TT	AA	1946984080
SNP_P4_147808_32939	NW_004516247.1	Scaffold892	32939	TT	CC	1946984082
SNP_P4_147809_32969	NW_004516247.1	Scaffold892	32969	TT	GG	1946984084
SNP_P4_147810_32976	NW_004516247.1	Scaffold892	32976	GG	AA	1946984086
SNP_P4_147811_32982	NW_004516247.1	Scaffold892	32982	AA	TT	1946984087
SNP_P4_147812_33008	NW_004516247.1	Scaffold892	33008	CC	TT	1946984089
SNP_P4_147813_33015	NW_004516247.1	Scaffold892	33015	TT	CC	1946984091
SNP_P4_147814_33068	NW_004516247.1	Scaffold892	33068	GG	CC	1946984093
SNP_P4_147815_33137	NW_004516247.1	Scaffold892	33137	TT	GG	1946984095
SNP_P4_147816_33159	NW_004516247.1	Scaffold892	33159	TT	AA	1946984097
SNP_P4_147817_33161	NW_004516247.1	Scaffold892	33161	TT	GG	1946984099
SNP_P4_147818_33178	NW_004516247.1	Scaffold892	33178	TT	CC	1946984101
SNP_P4_147819_33192	NW_004516247.1	Scaffold892	33192	AA	GG	1946984103
SNP_P4_147820_33216	NW_004516247.1	Scaffold892	33216	GG	AA	1946984105
SNP_P4_147821_33217	NW_004516247.1	Scaffold892	33217	GG	TT	1946984107
SNP_P4_147822_33242	NW_004516247.1	Scaffold892	33242	CC	AA	1946984109
SNP_P4_147823_33261	NW_004516247.1	Scaffold892	33261	TT	CC	1946984111
SNP_P4_147824_33295	NW_004516247.1	Scaffold892	33295	GG	AA	1946984113
SNP_P4_147825_33310	NW_004516247.1	Scaffold892	33310	TT	CC	1946984116
SNP_P4_147826_33377	NW_004516247.1	Scaffold892	33377	CC	AA	1946984117
SNP_P4_147827_33391	NW_004516247.1	Scaffold892	33391	TT	AA	1946984119
SNP_P4_147828_33397	NW_004516247.1	Scaffold892	33397	AA	CC	1946984121
SNP_P4_147829_33539	NW_004516247.1	Scaffold892	33539	TT	CC	1946984123
SNP_P4_147832_33888	NW_004516247.1	Scaffold892	33888	CC	TT	1946984126
SNP_P4_147833_34187	NW_004516247.1	Scaffold892	34187	GG	TT	1946984128
SNP_P4_147834_34244	NW_004516247.1	Scaffold892	34244	AA	TT	1946984130
SNP_P4_147835_34329	NW_004516247.1	Scaffold892	34329	TT	CC	1946984131

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_147837_34412	NW_004516247.1	Scaffold892	34412	GG	AA	1946984136
SNP_P4_147839_34480	NW_004516247.1	Scaffold892	34480	AA	TT	1946984138
SNP_P4_147840_34508	NW_004516247.1	Scaffold892	34508	CC	GG	1946984140
SNP_P4_147841_34570	NW_004516247.1	Scaffold892	34570	TT	CC	1946984141
SNP_P4_147842_34581	NW_004516247.1	Scaffold892	34581	AA	GG	1946984143
SNP_P4_147843_34588	NW_004516247.1	Scaffold892	34588	GG	CC	1946984146
SNP_P4_147844_34615	NW_004516247.1	Scaffold892	34615	AA	GG	1946984148
SNP_P4_147845_34630	NW_004516247.1	Scaffold892	34630	TT	AA	1946984150
SNP_P4_147846_34931	NW_004516247.1	Scaffold892	34931	TT	AA	1946984152
SNP_P4_147847_34932	NW_004516247.1	Scaffold892	34932	AA	GG	1946984154
SNP_P4_147848_34972	NW_004516247.1	Scaffold892	34972	TT	AA	1946984156
SNP_P4_147849_35109	NW_004516247.1	Scaffold892	35109	AA	CC	1946984158
SNP_P4_147850_36620	NW_004516247.1	Scaffold892	36620	AA	GG	1946984160
SNP_P4_147851_36674	NW_004516247.1	Scaffold892	36674	GG	TT	1946984162
SNP_P4_147852_36697	NW_004516247.1	Scaffold892	36697	GG	TT	1946984164
SNP_P4_147853_36799	NW_004516247.1	Scaffold892	36799	CC	TT	1946984166
SNP_P4_147854_37080	NW_004516247.1	Scaffold892	37080	CC	GG	1946984168
SNP_P4_147855_37265	NW_004516247.1	Scaffold892	37265	GG	AA	1946984170
SNP_P4_147856_37433	NW_004516247.1	Scaffold892	37433	TT	GG	1946984172
SNP_P4_147857_37707	NW_004516247.1	Scaffold892	37707	GG	AA	1946984174
SNP_P4_147858_37746	NW_004516247.1	Scaffold892	37746	CC	TT	1946984177
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SNP_P4_147860_38060	NW_004516247.1	Scaffold892	38060	TT	AA	1946984180
SNP_P4_147861_38103	NW_004516247.1	Scaffold892	38103	GG	AA	1946984183
SNP_P4_147862_38110	NW_004516247.1	Scaffold892	38110	CC	TT	1946984185
SNP_P4_147864_38496	NW_004516247.1	Scaffold892	38496	CC	TT	1946984187
SNP_P4_147865_38793	NW_004516247.1	Scaffold892	38793	TT	CC	1946984189
SNP_P4_147866_38942	NW_004516247.1	Scaffold892	38942	TT	GG	1946984191
SNP_P4_147867_38943	NW_004516247.1	Scaffold892	38943	AA	GG	1946984193
SNP_P4_147868_40471	NW_004516247.1	Scaffold892	40471	TT	CC	1946984195
SNP_P4_147869_40713	NW_004516247.1	Scaffold892	40713	TT	AA	1946984197
SNP_P4_147870_40766	NW_004516247.1	Scaffold892	40766	AA	CC	1946984199
SNP_P4_147871_41750	NW_004516247.1	Scaffold892	41750	AA	GG	1946984201
SNP_P4_147872_42176	NW_004516247.1	Scaffold892	42176	AA	GG	1946984203
SNP_P4_147875_44009	NW_004516247.1	Scaffold892	44009	TT	CC	1946984205
SNP_P4_147876_44197	NW_004516247.1	Scaffold892	44197	AA	TT	1946984207
SNP_P4_147878_44478	NW_004516247.1	Scaffold892	44478	AA	GG	1946984209
SNP_P4_147879_46101	NW_004516247.1	Scaffold892	46101	CC	AA	1946984211
SNP_P4_147880_46301	NW_004516247.1	Scaffold892	46301	TT	GG	1946984213
SNP_P4_147881_46668	NW_004516247.1	Scaffold892	46668	TT	CC	1946984215
SNP_P4_147882_49887	NW_004516247.1	Scaffold892	49887	CC	TT	1946984216

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_147884_52469	NW_004516247.1	Scaffold892	52469	TT	GG	1946984220
SNP_P4_147885_54803	NW_004516247.1	Scaffold892	54803	TT	CC	1946984222
SNP_P4_147886_54945	NW_004516247.1	Scaffold892	54945	CC	GG	1946984224
SNP_P4_147887_58110	NW_004516247.1	Scaffold892	58110	TT	CC	1946984226
SNP_P4_147888_59657	NW_004516247.1	Scaffold892	59657	CC	TT	1946984228
SNP_P4_147889_60387	NW_004516247.1	Scaffold892	60387	GG	AA	1946984230
SNP_P4_147891_60741	NW_004516247.1	Scaffold892	60741	AA	GG	1946984232
SNP_P4_147892_60784	NW_004516247.1	Scaffold892	60784	AA	GG	1946984234
SNP_P4_147894_1353	NW_004516248.1	Scaffold893	1353	GG	AA	1946984236
SNP_P4_147895_1552	NW_004516248.1	Scaffold893	1552	CC	TT	1946984238
SNP_P4_147896_1794	NW_004516248.1	Scaffold893	1794	GG	AA	1946984240
SNP_P4_147897_1849	NW_004516248.1	Scaffold893	1849	AA	TT	1946984242
SNP_P4_147898_1862	NW_004516248.1	Scaffold893	1862	TT	CC	1946984244
SNP_P4_147899_1872	NW_004516248.1	Scaffold893	1872	TT	AA	1946984245
SNP_P4_147900_1884	NW_004516248.1	Scaffold893	1884	GG	AA	1946984247
SNP_P4_147902_2081	NW_004516248.1	Scaffold893	2081	TT	CC	1946984249
SNP_P4_147903_2136	NW_004516248.1	Scaffold893	2136	CC	TT	1946984251
SNP_P4_147904_2220	NW_004516248.1	Scaffold893	2220	AA	GG	1946984253
SNP_P4_147905_2222	NW_004516248.1	Scaffold893	2222	GG	AA	1946984255
SNP_P4_147906_2328	NW_004516248.1	Scaffold893	2328	AA	GG	1946984256
SNP_P4_147907_2349	NW_004516248.1	Scaffold893	2349	CC	TT	1946984258
SNP_P4_147908_2361	NW_004516248.1	Scaffold893	2361	GG	TT	1946984260
SNP_P4_147909_2367	NW_004516248.1	Scaffold893	2367	AA	CC	1946984262
SNP_P4_147910_2377	NW_004516248.1	Scaffold893	2377	TT	CC	1946984264
SNP_P4_147911_2380	NW_004516248.1	Scaffold893	2380	CC	TT	1946984266
SNP_P4_147912_2397	NW_004516248.1	Scaffold893	2397	AA	GG	1946984268
SNP_P4_147913_2422	NW_004516248.1	Scaffold893	2422	TT	AA	1946984270
SNP_P4_147914_2426	NW_004516248.1	Scaffold893	2426	AA	GG	1946984272
SNP_P4_147915_2427	NW_004516248.1	Scaffold893	2427	TT	CC	1946984274
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SNP_P4_147917_2459	NW_004516248.1	Scaffold893	2459	TT	CC	1946984278
SNP_P4_147918_2473	NW_004516248.1	Scaffold893	2473	AA	GG	1946984280
SNP_P4_147920_10861	NW_004516248.1	Scaffold893	10861	AA	GG	1946984281
SNP_P4_147922_11169	NW_004516248.1	Scaffold893	11169	TT	GG	1946984283
SNP_P4_147923_11368	NW_004516248.1	Scaffold893	11368	TT	CC	1946984285
SNP_P4_147924_11378	NW_004516248.1	Scaffold893	11378	TT	CC	1946984287
SNP_P4_147925_13970	NW_004516248.1	Scaffold893	13970	TT	CC	1946984289
SNP_P4_147926_21118	NW_004516248.1	Scaffold893	21118	AA	GG	1946984291
SNP_P4_147927_21131	NW_004516248.1	Scaffold893	21131	GG	AA	1946984293
SNP_P4_147928_21427	NW_004516248.1	Scaffold893	21427	CC	GG	1946984295
SNP_P4_147929_21443	NW_004516248.1	Scaffold893	21443	TT	CC	1946984297

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_147931_21545	NW_004516248.1	Scaffold893	21545	GG	AA	1946984301
SNP_P4_147932_28561	NW_004516250.1	Scaffold895	28561	TT	CC	1946984303
SNP_P4_147937_105571	NW_004516250.1	Scaffold895	105571	CC	AA	1946984305
SNP_P4_147938_105707	NW_004516250.1	Scaffold895	105707	TT	CC	1946984307
SNP_P4_147939_105763	NW_004516250.1	Scaffold895	105763	AA	TT	1946984309
SNP_P4_147940_107670	NW_004516250.1	Scaffold895	107670	GG	TT	1946984311
SNP_P4_147941_119170	NW_004516250.1	Scaffold895	119170	CC	TT	1946984313
SNP_P4_147942_127149	NW_004516250.1	Scaffold895	127149	CC	TT	1946984315
SNP_P4_147944_144557	NW_004516250.1	Scaffold895	144557	GG	AA	1946984317
SNP_P4_147945_160456	NW_004516250.1	Scaffold895	160456	GG	CC	1946984318
SNP_P4_147946_170728	NW_004516250.1	Scaffold895	170728	TT	CC	1946984320
SNP_P4_147948_14454	NW_004516251.1	Scaffold896	14454	AA	CC	1946984322
SNP_P4_147949_14484	NW_004516251.1	Scaffold896	14484	CC	TT	1946984324
SNP_P4_147950_14512	NW_004516251.1	Scaffold896	14512	AA	GG	1946984326
SNP_P4_147951_14514	NW_004516251.1	Scaffold896	14514	TT	AA	1946984328
SNP_P4_147952_14535	NW_004516251.1	Scaffold896	14535	TT	CC	1946984330
SNP_P4_147953_14541	NW_004516251.1	Scaffold896	14541	AA	GG	1946984332
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SNP_P4_147955_14625	NW_004516251.1	Scaffold896	14625	TT	CC	1946984336
SNP_P4_147956_14631	NW_004516251.1	Scaffold896	14631	TT	AA	1946984338
SNP_P4_147958_14722	NW_004516251.1	Scaffold896	14722	TT	CC	1946984340
SNP_P4_147959_14763	NW_004516251.1	Scaffold896	14763	GG	AA	1946984342
SNP_P4_147960_14800	NW_004516251.1	Scaffold896	14800	CC	TT	1946984344
SNP_P4_147961_14807	NW_004516251.1	Scaffold896	14807	TT	CC	1946984346
SNP_P4_147962_14817	NW_004516251.1	Scaffold896	14817	CC	GG	1946984348
SNP_P4_147963_14900	NW_004516251.1	Scaffold896	14900	AA	GG	1946984350
SNP_P4_147964_15546	NW_004516251.1	Scaffold896	15546	GG	AA	1946984352
SNP_P4_147965_15584	NW_004516251.1	Scaffold896	15584	GG	AA	1946984354
SNP_P4_147966_15604	NW_004516251.1	Scaffold896	15604	TT	CC	1946984356
SNP_P4_147967_15614	NW_004516251.1	Scaffold896	15614	TT	CC	1946984358
SNP_P4_147968_15682	NW_004516251.1	Scaffold896	15682	TT	GG	1946984360
SNP_P4_147969_15694	NW_004516251.1	Scaffold896	15694	TT	CC	1946984362
SNP_P4_147970_15709	NW_004516251.1	Scaffold896	15709	AA	GG	1946984364
SNP_P4_147972_22584	NW_004516251.1	Scaffold896	22584	GG	TT	1946984366
SNP_P4_147973_22628	NW_004516251.1	Scaffold896	22628	AA	TT	1946984368
SNP_P4_147974_22663	NW_004516251.1	Scaffold896	22663	GG	AA	1946984370
SNP_P4_147975_35460	NW_004516251.1	Scaffold896	35460	TT	AA	1946984372
SNP_P4_147976_37933	NW_004516251.1	Scaffold896	37933	TT	AA	1946984374
SNP_P4_147977_37941	NW_004516251.1	Scaffold896	37941	CC	TT	1946984377
SNP_P4_147978_42665	NW_004516251.1	Scaffold896	42665	TT	GG	1946984378
SNP_P4_147979_45830	NW_004516251.1	Scaffold896	45830	AA	GG	1946984380

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_147982_57359	NW_004516251.1	Scaffold896	57359	TT	CC	1946984384
SNP_P4_147983_57360	NW_004516251.1	Scaffold896	57360	AA	CC	1946984386
SNP_P4_147984_57362	NW_004516251.1	Scaffold896	57362	AA	TT	1946984388
SNP_P4_147985_57367	NW_004516251.1	Scaffold896	57367	GG	AA	1946984390
SNP_P4_147986_57376	NW_004516251.1	Scaffold896	57376	TT	AA	1946984392
SNP_P4_147988_75718	NW_004516251.1	Scaffold896	75718	AA	GG	1946984394
SNP_P4_147989_75941	NW_004516251.1	Scaffold896	75941	GG	TT	1946984396
SNP_P4_147990_75954	NW_004516251.1	Scaffold896	75954	AA	CC	1946984398
SNP_P4_147991_75976	NW_004516251.1	Scaffold896	75976	TT	CC	1946984400
SNP_P4_147992_8254	NW_004516253.1	Scaffold898	8254	TT	GG	1946984402
SNP_P4_147993_8269	NW_004516253.1	Scaffold898	8269	AA	TT	1946984404
SNP_P4_147994_8283	NW_004516253.1	Scaffold898	8283	TT	GG	1946984406
SNP_P4_147995_8579	NW_004516253.1	Scaffold898	8579	TT	AA	1946984408
SNP_P4_147996_9017	NW_004516253.1	Scaffold898	9017	CC	GG	1946984410
SNP_P4_147997_11944	NW_004516253.1	Scaffold898	11944	TT	CC	1946984412
SNP_P4_147998_25961	NW_004516253.1	Scaffold898	25961	AA	GG	1946984414
SNP_P4_147999_25987	NW_004516253.1	Scaffold898	25987	GG	AA	1946984416
SNP_P4_148001_13463	NW_004516255.1	Scaffold900	13463	AA	GG	1946984418
SNP_P4_148002_13499	NW_004516255.1	Scaffold900	13499	TT	AA	1946984420
SNP_P4_148003_13795	NW_004516255.1	Scaffold900	13795	GG	AA	1946984422
SNP_P4_148004_13812	NW_004516255.1	Scaffold900	13812	AA	CC	1946984424
SNP_P4_148005_13828	NW_004516255.1	Scaffold900	13828	GG	CC	1946984426
SNP_P4_148006_13870	NW_004516255.1	Scaffold900	13870	GG	AA	1946984428
SNP_P4_148007_13896	NW_004516255.1	Scaffold900	13896	AA	GG	1946984430
SNP_P4_148008_13927	NW_004516255.1	Scaffold900	13927	AA	GG	1946984433
SNP_P4_148009_14803	NW_004516255.1	Scaffold900	14803	AA	GG	1946984435
SNP_P4_148010_15031	NW_004516255.1	Scaffold900	15031	GG	CC	1946984437
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SNP_P4_148012_15111	NW_004516255.1	Scaffold900	15111	GG	TT	1946984441
SNP_P4_148013_15277	NW_004516255.1	Scaffold900	15277	AA	GG	1946984443
SNP_P4_148014_29309	NW_004516255.1	Scaffold900	29309	AA	CC	1946984446
SNP_P4_148015_29343	NW_004516255.1	Scaffold900	29343	TT	AA	1946984448
SNP_P4_148016_29357	NW_004516255.1	Scaffold900	29357	TT	CC	1946984450
SNP_P4_148017_29429	NW_004516255.1	Scaffold900	29429	AA	GG	1946984452
SNP_P4_148018_29465	NW_004516255.1	Scaffold900	29465	TT	AA	1946984454
SNP_P4_148019_29495	NW_004516255.1	Scaffold900	29495	GG	AA	1946984456
SNP_P4_148020_29518	NW_004516255.1	Scaffold900	29518	CC	TT	1946984458
SNP_P4_148021_29543	NW_004516255.1	Scaffold900	29543	TT	AA	1946984460
SNP_P4_148022_29633	NW_004516255.1	Scaffold900	29633	GG	TT	1946984462
SNP_P4_148023_29648	NW_004516255.1	Scaffold900	29648	CC	TT	1946984464
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_148027_36981	NW_004516255.1	Scaffold900	36981	TT	AA	1946984472
SNP_P4_148028_39140	NW_004516255.1	Scaffold900	39140	TT	CC	1946984474
SNP_P4_148029_40330	NW_004516255.1	Scaffold900	40330	TT	AA	1946984476
SNP_P4_148030_41421	NW_004516255.1	Scaffold900	41421	TT	CC	1946984478
SNP_P4_148031_41442	NW_004516255.1	Scaffold900	41442	CC	TT	1946984480
SNP_P4_148032_41496	NW_004516255.1	Scaffold900	41496	AA	CC	1946984482
SNP_P4_148033_41666	NW_004516255.1	Scaffold900	41666	GG	CC	1946984484
SNP_P4_148034_41714	NW_004516255.1	Scaffold900	41714	GG	CC	1946984486
SNP_P4_148035_41768	NW_004516255.1	Scaffold900	41768	TT	AA	1946984488
SNP_P4_148036_41789	NW_004516255.1	Scaffold900	41789	TT	CC	1946984490
SNP_P4_148037_41821	NW_004516255.1	Scaffold900	41821	TT	GG	1946984492
SNP_P4_148038_41894	NW_004516255.1	Scaffold900	41894	CC	TT	1946984494
SNP_P4_148039_41911	NW_004516255.1	Scaffold900	41911	GG	AA	1946984496
SNP_P4_148040_42000	NW_004516255.1	Scaffold900	42000	AA	GG	1946984498
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SNP_P4_148042_42130	NW_004516255.1	Scaffold900	42130	GG	CC	1946984502
SNP_P4_148043_42138	NW_004516255.1	Scaffold900	42138	AA	GG	1946984504
SNP_P4_148044_42183	NW_004516255.1	Scaffold900	42183	TT	CC	1946984506
SNP_P4_148045_42285	NW_004516255.1	Scaffold900	42285	TT	AA	1946984508
SNP_P4_148046_42349	NW_004516255.1	Scaffold900	42349	TT	AA	1946984510
SNP_P4_148047_42419	NW_004516255.1	Scaffold900	42419	GG	TT	1946984512
SNP_P4_148048_42432	NW_004516255.1	Scaffold900	42432	AA	TT	1946984514
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SNP_P4_148052_42734	NW_004516255.1	Scaffold900	42734	GG	TT	1946984522
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SNP_P4_148054_42786	NW_004516255.1	Scaffold900	42786	CC	GG	1946984527
SNP_P4_148055_42824	NW_004516255.1	Scaffold900	42824	TT	AA	1946984529
SNP_P4_148056_42901	NW_004516255.1	Scaffold900	42901	TT	AA	1946984531
SNP_P4_148057_42986	NW_004516255.1	Scaffold900	42986	GG	AA	1946984533
SNP_P4_148058_42989	NW_004516255.1	Scaffold900	42989	GG	CC	1946984535
SNP_P4_148059_43042	NW_004516255.1	Scaffold900	43042	GG	AA	1946984537
SNP_P4_148060_43359	NW_004516255.1	Scaffold900	43359	GG	CC	1946984539
SNP_P4_148061_45450	NW_004516255.1	Scaffold900	45450	GG	AA	1946984541
SNP_P4_148062_45462	NW_004516255.1	Scaffold900	45462	TT	AA	1946984544
SNP_P4_148063_45463	NW_004516255.1	Scaffold900	45463	GG	AA	1946984546
SNP_P4_148064_45533	NW_004516255.1	Scaffold900	45533	TT	GG	1946984548
SNP_P4_148065_45575	NW_004516255.1	Scaffold900	45575	AA	TT	1946984550
SNP_P4_148066_46450	NW_004516255.1	Scaffold900	46450	CC	AA	1946984552

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_148068_46810	NW_004516255.1	Scaffold900	46810	TT	CC	1946984556
SNP_P4_148069_46918	NW_004516255.1	Scaffold900	46918	GG	TT	1946984558
SNP_P4_148070_46975	NW_004516255.1	Scaffold900	46975	GG	AA	1946984560
SNP_P4_148071_46987	NW_004516255.1	Scaffold900	46987	CC	TT	1946984562
SNP_P4_148072_46989	NW_004516255.1	Scaffold900	46989	CC	TT	1946984564
SNP_P4_148073_47015	NW_004516255.1	Scaffold900	47015	CC	TT	1946984566
SNP_P4_148074_47052	NW_004516255.1	Scaffold900	47052	GG	AA	1946984568
SNP_P4_148075_47149	NW_004516255.1	Scaffold900	47149	TT	CC	1946984570
SNP_P4_148076_47193	NW_004516255.1	Scaffold900	47193	CC	GG	1946984572
SNP_P4_148077_47222	NW_004516255.1	Scaffold900	47222	AA	TT	1946984574
SNP_P4_148078_47232	NW_004516255.1	Scaffold900	47232	AA	GG	1946984576
SNP_P4_148079_47407	NW_004516255.1	Scaffold900	47407	GG	AA	1946984578
SNP_P4_148080_47413	NW_004516255.1	Scaffold900	47413	AA	CC	1946984580
SNP_P4_148081_47415	NW_004516255.1	Scaffold900	47415	CC	AA	1946984582
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SNP_P4_148083_47430	NW_004516255.1	Scaffold900	47430	AA	TT	1946984586
SNP_P4_148084_47441	NW_004516255.1	Scaffold900	47441	AA	CC	1946984588
SNP_P4_148085_47513	NW_004516255.1	Scaffold900	47513	GG	AA	1946984590
SNP_P4_148086_47623	NW_004516255.1	Scaffold900	47623	GG	TT	1946984592
SNP_P4_148087_47672	NW_004516255.1	Scaffold900	47672	AA	CC	1946984594
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SNP_P4_148101_19857	NW_004516256.1	Scaffold901	19857	CC	TT	1946984623
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SNP_P4_148105_23765	NW_004516256.1	Scaffold901	23765	AA	GG	1946984631
SNP_P4_148106_23772	NW_004516256.1	Scaffold901	23772	AA	GG	1946984633
SNP_P4_148107_23799	NW_004516256.1	Scaffold901	23799	TT	AA	1946984635
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_148112_23901	NW_004516256.1	Scaffold901	23901	AA	GG	1946984642
SNP_P4_148113_23912	NW_004516256.1	Scaffold901	23912	TT	AA	1946984644
SNP_P4_148114_46297	NW_004516256.1	Scaffold901	46297	GG	AA	1946984646
SNP_P4_148115_46302	NW_004516256.1	Scaffold901	46302	TT	CC	1946984648
SNP_P4_148116_46303	NW_004516256.1	Scaffold901	46303	TT	CC	1946984650
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SNP_P4_148118_69555	NW_004516256.1	Scaffold901	69555	GG	TT	1946984654
SNP_P4_148119_69559	NW_004516256.1	Scaffold901	69559	AA	GG	1946984656
SNP_P4_148120_69585	NW_004516256.1	Scaffold901	69585	TT	CC	1946984658
SNP_P4_148121_94374	NW_004516256.1	Scaffold901	94374	TT	AA	1946984660
SNP_P4_148122_133005	NW_004516256.1	Scaffold901	133005	TT	CC	1946984661
SNP_P4_148123_136782	NW_004516256.1	Scaffold901	136782	GG	AA	1946984663
SNP_P4_148125_143018	NW_004516256.1	Scaffold901	143018	AA	CC	1946984665
SNP_P4_148126_143021	NW_004516256.1	Scaffold901	143021	CC	TT	1946984667
SNP_P4_148127_143065	NW_004516256.1	Scaffold901	143065	AA	TT	1946984669
SNP_P4_148128_143131	NW_004516256.1	Scaffold901	143131	AA	GG	1946984671
SNP_P4_148129_143163	NW_004516256.1	Scaffold901	143163	GG	TT	1946984673
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SNP_P4_148138_181137	NW_004516256.1	Scaffold901	181137	AA	GG	1946984691
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SNP_P4_148140_181189	NW_004516256.1	Scaffold901	181189	TT	CC	1946984695
SNP_P4_148141_208428	NW_004516256.1	Scaffold901	208428	AA	CC	1946984697
SNP_P4_148142_221916	NW_004516256.1	Scaffold901	221916	AA	CC	1946984699
SNP_P4_148143_221951	NW_004516256.1	Scaffold901	221951	GG	AA	1946984701
SNP_P4_148144_222304	NW_004516256.1	Scaffold901	222304	AA	GG	1946984703
SNP_P4_148145_229453	NW_004516256.1	Scaffold901	229453	CC	TT	1946984705
SNP_P4_148146_229670	NW_004516256.1	Scaffold901	229670	GG	AA	1946984707
SNP_P4_148147_233257	NW_004516256.1	Scaffold901	233257	AA	GG	1946984709
SNP_P4_148148_233267	NW_004516256.1	Scaffold901	233267	GG	AA	1946984711
SNP_P4_148149_233287	NW_004516256.1	Scaffold901	233287	AA	GG	1946984713
SNP_P4_148150_233293	NW_004516256.1	Scaffold901	233293	TT	CC	1946984715
SNP_P4_148151_233559	NW_004516256.1	Scaffold901	233559	TT	AA	1946984717
SNP_P4_148152_233560	NW_004516256.1	Scaffold901	233560	GG	TT	1946984719

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_148154_239432	NW_004516256.1	Scaffold901	239432	TT	CC	1946984723
SNP_P4_148155_246340	NW_004516256.1	Scaffold901	246340	AA	GG	1946984725
SNP_P4_148156_325	NW_004516258.1	Scaffold904	325	CC	TT	1946984728
SNP_P4_148157_9876	NW_004516258.1	Scaffold904	9876	TT	GG	1946984730
SNP_P4_148158_11632	NW_004516258.1	Scaffold904	11632	CC	TT	1946984732
SNP_P4_148159_11648	NW_004516258.1	Scaffold904	11648	TT	GG	1946984734
SNP_P4_148160_11679	NW_004516258.1	Scaffold904	11679	CC	AA	1946984736
SNP_P4_148161_11685	NW_004516258.1	Scaffold904	11685	TT	AA	1946984738
SNP_P4_148162_12721	NW_004516258.1	Scaffold904	12721	AA	GG	1946984739
SNP_P4_148163_12724	NW_004516258.1	Scaffold904	12724	TT	AA	1946984741
SNP_P4_148164_14506	NW_004516258.1	Scaffold904	14506	AA	TT	1946984743
SNP_P4_148165_14539	NW_004516258.1	Scaffold904	14539	AA	GG	1946984745
SNP_P4_148166_14558	NW_004516258.1	Scaffold904	14558	CC	TT	1946984747
SNP_P4_148167_14560	NW_004516258.1	Scaffold904	14560	AA	TT	1946984749
SNP_P4_148168_14893	NW_004516258.1	Scaffold904	14893	CC	TT	1946984752
SNP_P4_148169_16301	NW_004516258.1	Scaffold904	16301	AA	TT	1946984754
SNP_P4_148170_16521	NW_004516258.1	Scaffold904	16521	CC	GG	1946984756
SNP_P4_148171_16592	NW_004516258.1	Scaffold904	16592	CC	TT	1946984758
SNP_P4_148172_16716	NW_004516258.1	Scaffold904	16716	TT	CC	1946984760
SNP_P4_148173_16760	NW_004516258.1	Scaffold904	16760	TT	CC	1946984762
SNP_P4_148174_16761	NW_004516258.1	Scaffold904	16761	AA	CC	1946984765
SNP_P4_148175_20216	NW_004516258.1	Scaffold904	20216	AA	GG	1946984767
SNP_P4_148176_20230	NW_004516258.1	Scaffold904	20230	AA	GG	1946984769
SNP_P4_148177_20303	NW_004516258.1	Scaffold904	20303	TT	AA	1946984771
SNP_P4_148178_20351	NW_004516258.1	Scaffold904	20351	TT	AA	1946984773
SNP_P4_148179_41	NW_004516260.1	Scaffold907	41	AA	GG	1946984776
SNP_P4_148180_67	NW_004516260.1	Scaffold907	67	AA	TT	1946984778
SNP_P4_148181_698	NW_004516260.1	Scaffold907	698	AA	TT	1946984780
SNP_P4_148183_10106	NW_004516261.1	Scaffold908	10106	TT	GG	1946984782
SNP_P4_148184_10135	NW_004516261.1	Scaffold908	10135	AA	GG	1946984784
SNP_P4_148185_11057	NW_004516261.1	Scaffold908	11057	TT	AA	1946984786
SNP_P4_148186_11112	NW_004516261.1	Scaffold908	11112	AA	GG	1946984788
SNP_P4_148187_11136	NW_004516261.1	Scaffold908	11136	CC	TT	1946984790
SNP_P4_148188_11153	NW_004516261.1	Scaffold908	11153	CC	TT	1946984792
SNP_P4_148189_11155	NW_004516261.1	Scaffold908	11155	CC	GG	1946984794
SNP_P4_148190_11338	NW_004516261.1	Scaffold908	11338	TT	CC	1946984796
SNP_P4_148191_11341	NW_004516261.1	Scaffold908	11341	CC	TT	1946984798
SNP_P4_148192_11358	NW_004516261.1	Scaffold908	11358	TT	CC	1946984800
SNP_P4_148193_11373	NW_004516261.1	Scaffold908	11373	CC	AA	1946984802
SNP_P4_148194_11419	NW_004516261.1	Scaffold908	11419	CC	TT	1946984805
SNP_P4_148195_11439	NW_004516261.1	Scaffold908	11439	CC	TT	1946984807

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_148197_18181	NW_004516261.1	Scaffold908	18181	TT	AA	1946984811
SNP_P4_148198_18227	NW_004516261.1	Scaffold908	18227	GG	AA	1946984813
SNP_P4_148199_18233	NW_004516261.1	Scaffold908	18233	TT	AA	1946984815
SNP_P4_148200_18235	NW_004516261.1	Scaffold908	18235	GG	AA	1946984817
SNP_P4_148201_18253	NW_004516261.1	Scaffold908	18253	GG	AA	1946984819
SNP_P4_148202_18256	NW_004516261.1	Scaffold908	18256	TT	AA	1946984821
SNP_P4_148203_18282	NW_004516261.1	Scaffold908	18282	AA	TT	1946984823
SNP_P4_148204_18643	NW_004516261.1	Scaffold908	18643	GG	CC	1946984825
SNP_P4_148205_18766	NW_004516261.1	Scaffold908	18766	AA	GG	1946984827
SNP_P4_148206_18803	NW_004516261.1	Scaffold908	18803	TT	GG	1946984829
SNP_P4_148207_21851	NW_004516261.1	Scaffold908	21851	TT	AA	1946984831
SNP_P4_148208_31232	NW_004516261.1	Scaffold908	31232	AA	GG	1946984833
SNP_P4_148209_31267	NW_004516261.1	Scaffold908	31267	CC	TT	1946984835
SNP_P4_148210_31388	NW_004516261.1	Scaffold908	31388	CC	TT	1946984837
SNP_P4_148211_31403	NW_004516261.1	Scaffold908	31403	GG	TT	1946984839
SNP_P4_148212_31638	NW_004516261.1	Scaffold908	31638	GG	TT	1946984841
SNP_P4_148213_31663	NW_004516261.1	Scaffold908	31663	TT	GG	1946984843
SNP_P4_148214_37001	NW_004516261.1	Scaffold908	37001	TT	CC	1946984846
SNP_P4_148215_37053	NW_004516261.1	Scaffold908	37053	AA	GG	1946984848
SNP_P4_148216_37279	NW_004516261.1	Scaffold908	37279	TT	AA	1946984850
SNP_P4_148217_38348	NW_004516261.1	Scaffold908	38348	AA	GG	1946984852
SNP_P4_148218_41004	NW_004516261.1	Scaffold908	41004	TT	AA	1946984854
SNP_P4_148219_41207	NW_004516261.1	Scaffold908	41207	TT	CC	1946984856
SNP_P4_148220_491	NW_004516262.1	Scaffold909	491	CC	TT	1946984858
SNP_P4_148221_589	NW_004516262.1	Scaffold909	589	CC	AA	1946984860
SNP_P4_148222_1711	NW_004516262.1	Scaffold909	1711	CC	TT	1946984862
SNP_P4_148223_1729	NW_004516262.1	Scaffold909	1729	GG	AA	1946984864
SNP_P4_148224_2097	NW_004516262.1	Scaffold909	2097	AA	CC	1946984866
SNP_P4_148225_2287	NW_004516262.1	Scaffold909	2287	GG	AA	1946984868
SNP_P4_148226_2288	NW_004516262.1	Scaffold909	2288	AA	CC	1946984870
SNP_P4_148227_2324	NW_004516262.1	Scaffold909	2324	CC	TT	1946984872
SNP_P4_148228_3824	NW_004516262.1	Scaffold909	3824	AA	TT	1946984874
SNP_P4_148229_3889	NW_004516262.1	Scaffold909	3889	CC	AA	1946984876
SNP_P4_148230_3978	NW_004516262.1	Scaffold909	3978	CC	TT	1946984878
SNP_P4_148231_4092	NW_004516262.1	Scaffold909	4092	GG	AA	1946984880
SNP_P4_148232_4148	NW_004516262.1	Scaffold909	4148	CC	TT	1946984882
SNP_P4_148233_4540	NW_004516262.1	Scaffold909	4540	TT	GG	1946984884
SNP_P4_148234_5135	NW_004516262.1	Scaffold909	5135	TT	AA	1946984886
SNP_P4_148235_5199	NW_004516262.1	Scaffold909	5199	AA	GG	1946984888
SNP_P4_148236_5269	NW_004516262.1	Scaffold909	5269	CC	TT	1946984890
SNP_P4_148237_5287	NW_004516262.1	Scaffold909	5287	GG	AA	1946984892

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_148239_5541	NW_004516262.1	Scaffold909	5541	TT	AA	1946984896
SNP_P4_148240_5542	NW_004516262.1	Scaffold909	5542	GG	AA	1946984898
SNP_P4_148241_5649	NW_004516262.1	Scaffold909	5649	CC	TT	1946984901
SNP_P4_148242_5735	NW_004516262.1	Scaffold909	5735	TT	GG	1946984903
SNP_P4_148243_5801	NW_004516262.1	Scaffold909	5801	GG	CC	1946984905
SNP_P4_148244_5816	NW_004516262.1	Scaffold909	5816	CC	TT	1946984907
SNP_P4_148245_5847	NW_004516262.1	Scaffold909	5847	GG	AA	1946984908
SNP_P4_148246_5848	NW_004516262.1	Scaffold909	5848	AA	CC	1946984909
SNP_P4_148247_6162	NW_004516262.1	Scaffold909	6162	TT	CC	1946984911
SNP_P4_148248_6188	NW_004516262.1	Scaffold909	6188	TT	AA	1946984913
SNP_P4_148249_6294	NW_004516262.1	Scaffold909	6294	CC	TT	1946984915
SNP_P4_148250_6397	NW_004516262.1	Scaffold909	6397	TT	CC	1946984918
SNP_P4_148251_6652	NW_004516262.1	Scaffold909	6652	AA	TT	1946984920
SNP_P4_148253_6855	NW_004516262.1	Scaffold909	6855	CC	TT	1946984922
SNP_P4_148254_6901	NW_004516262.1	Scaffold909	6901	AA	GG	1946984924
SNP_P4_148255_6925	NW_004516262.1	Scaffold909	6925	TT	CC	1946984926
SNP_P4_148256_6986	NW_004516262.1	Scaffold909	6986	AA	GG	1946984928
SNP_P4_148257_6999	NW_004516262.1	Scaffold909	6999	AA	CC	1946984930
SNP_P4_148258_7129	NW_004516262.1	Scaffold909	7129	AA	GG	1946984932
SNP_P4_148259_7489	NW_004516262.1	Scaffold909	7489	TT	CC	1946984934
SNP_P4_148260_7804	NW_004516262.1	Scaffold909	7804	GG	TT	1946984936
SNP_P4_148261_7813	NW_004516262.1	Scaffold909	7813	AA	GG	1946984938
SNP_P4_148262_7847	NW_004516262.1	Scaffold909	7847	TT	GG	1946984940
SNP_P4_148263_8105	NW_004516262.1	Scaffold909	8105	AA	GG	1946984942
SNP_P4_148264_8135	NW_004516262.1	Scaffold909	8135	TT	CC	1946984945
SNP_P4_148265_8162	NW_004516262.1	Scaffold909	8162	AA	TT	1946984947
SNP_P4_148266_8185	NW_004516262.1	Scaffold909	8185	GG	TT	1946984949
SNP_P4_148267_8187	NW_004516262.1	Scaffold909	8187	CC	TT	1946984951
SNP_P4_148268_8213	NW_004516262.1	Scaffold909	8213	TT	GG	1946984952
SNP_P4_148269_8229	NW_004516262.1	Scaffold909	8229	AA	GG	1946984954
SNP_P4_148270_8302	NW_004516262.1	Scaffold909	8302	AA	GG	1946984956
SNP_P4_148271_8304	NW_004516262.1	Scaffold909	8304	GG	AA	1946984958
SNP_P4_148272_8354	NW_004516262.1	Scaffold909	8354	AA	CC	1946984960
SNP_P4_148273_8358	NW_004516262.1	Scaffold909	8358	AA	GG	1946984962
SNP_P4_148274_8607	NW_004516262.1	Scaffold909	8607	TT	GG	1946984964
SNP_P4_148275_8612	NW_004516262.1	Scaffold909	8612	CC	AA	1946984966
SNP_P4_148276_8621	NW_004516262.1	Scaffold909	8621	GG	AA	1946984968
SNP_P4_148277_8643	NW_004516262.1	Scaffold909	8643	AA	GG	1946984971
SNP_P4_148278_8676	NW_004516262.1	Scaffold909	8676	AA	GG	1946984973
SNP_P4_148279_8685	NW_004516262.1	Scaffold909	8685	GG	AA	1946984975
SNP_P4_148280_8711	NW_004516262.1	Scaffold909	8711	AA	TT	1946984977

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_148282_8723	NW_004516262.1	Scaffold909	8723	TT	GG	1946984982
SNP_P4_148283_8726	NW_004516262.1	Scaffold909	8726	AA	GG	1946984984
SNP_P4_148284_8743	NW_004516262.1	Scaffold909	8743	AA	GG	1946984986
SNP_P4_148285_10162	NW_004516262.1	Scaffold909	10162	GG	TT	1946984988
SNP_P4_148286_10256	NW_004516262.1	Scaffold909	10256	CC	TT	1946984990
SNP_P4_148287_10306	NW_004516262.1	Scaffold909	10306	CC	TT	1946984992
SNP_P4_148288_10307	NW_004516262.1	Scaffold909	10307	AA	GG	1946984994
SNP_P4_148289_10384	NW_004516262.1	Scaffold909	10384	GG	AA	1946984996
SNP_P4_148290_10508	NW_004516262.1	Scaffold909	10508	TT	CC	1946984998
SNP_P4_148291_10510	NW_004516262.1	Scaffold909	10510	CC	GG	1946985000
SNP_P4_148292_10559	NW_004516262.1	Scaffold909	10559	AA	TT	1946985002
SNP_P4_148293_10722	NW_004516262.1	Scaffold909	10722	GG	AA	1946985004
SNP_P4_148294_10771	NW_004516262.1	Scaffold909	10771	TT	CC	1946985006
SNP_P4_148295_10951	NW_004516262.1	Scaffold909	10951	CC	TT	1946985008
SNP_P4_148296_11793	NW_004516262.1	Scaffold909	11793	GG	AA	1946985010
SNP_P4_148297_17079	NW_004516262.1	Scaffold909	17079	TT	CC	1946985012
SNP_P4_148298_17088	NW_004516262.1	Scaffold909	17088	AA	CC	1946985014
SNP_P4_148299_17425	NW_004516262.1	Scaffold909	17425	GG	AA	1946985016
SNP_P4_148300_17474	NW_004516262.1	Scaffold909	17474	AA	TT	1946985017
SNP_P4_148301_17831	NW_004516262.1	Scaffold909	17831	TT	GG	1946985019
SNP_P4_148302_18028	NW_004516262.1	Scaffold909	18028	CC	TT	1946985021
SNP_P4_148303_18181	NW_004516262.1	Scaffold909	18181	AA	CC	1946985023
SNP_P4_148304_18281	NW_004516262.1	Scaffold909	18281	AA	GG	1946985025
SNP_P4_148305_18294	NW_004516262.1	Scaffold909	18294	GG	AA	1946985027
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SNP_P4_148308_18541	NW_004516262.1	Scaffold909	18541	TT	GG	1946985033
SNP_P4_148310_21682	NW_004516262.1	Scaffold909	21682	AA	GG	1946985035
SNP_P4_148311_21718	NW_004516262.1	Scaffold909	21718	TT	CC	1946985037
SNP_P4_148312_21779	NW_004516262.1	Scaffold909	21779	GG	AA	1946985038
SNP_P4_148313_21787	NW_004516262.1	Scaffold909	21787	GG	AA	1946985040
SNP_P4_148314_22110	NW_004516262.1	Scaffold909	22110	AA	GG	1946985042
SNP_P4_148315_22481	NW_004516262.1	Scaffold909	22481	AA	TT	1946985044
SNP_P4_148316_22566	NW_004516262.1	Scaffold909	22566	TT	CC	1946985046
SNP_P4_148317_22772	NW_004516262.1	Scaffold909	22772	AA	GG	1946985048
SNP_P4_148318_23494	NW_004516262.1	Scaffold909	23494	GG	TT	1946985050
SNP_P4_148319_23924	NW_004516262.1	Scaffold909	23924	AA	GG	1946985052
SNP_P4_148320_24797	NW_004516262.1	Scaffold909	24797	GG	AA	1946985054
SNP_P4_148321_25077	NW_004516262.1	Scaffold909	25077	GG	CC	1946985056
SNP_P4_148322_26124	NW_004516262.1	Scaffold909	26124	AA	GG	1946985058
SNP_P4_148323_26216	NW_004516262.1	Scaffold909	26216	AA	GG	1946985060

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_148326_26782	NW_004516262.1	Scaffold909	26782	TT	CC	1946985066
SNP_P4_148327_26838	NW_004516262.1	Scaffold909	26838	GG	TT	1946985069
SNP_P4_148328_26997	NW_004516262.1	Scaffold909	26997	GG	AA	1946985071
SNP_P4_148329_27056	NW_004516262.1	Scaffold909	27056	CC	GG	1946985073
SNP_P4_148330_27059	NW_004516262.1	Scaffold909	27059	GG	TT	1946985075
SNP_P4_148331_27095	NW_004516262.1	Scaffold909	27095	TT	CC	1946985077
SNP_P4_148332_27202	NW_004516262.1	Scaffold909	27202	GG	AA	1946985079
SNP_P4_148333_27214	NW_004516262.1	Scaffold909	27214	AA	GG	1946985081
SNP_P4_148334_27216	NW_004516262.1	Scaffold909	27216	TT	CC	1946985083
SNP_P4_148335_27243	NW_004516262.1	Scaffold909	27243	AA	CC	1946985085
SNP_P4_148336_27269	NW_004516262.1	Scaffold909	27269	CC	TT	1946985087
SNP_P4_148337_27397	NW_004516262.1	Scaffold909	27397	AA	GG	1946985089
SNP_P4_148338_27586	NW_004516262.1	Scaffold909	27586	CC	TT	1946985091
SNP_P4_148339_28105	NW_004516262.1	Scaffold909	28105	TT	AA	1946985093
SNP_P4_148340_29260	NW_004516262.1	Scaffold909	29260	GG	AA	1946985095
SNP_P4_148341_29428	NW_004516262.1	Scaffold909	29428	AA	GG	1946985097
SNP_P4_148342_32868	NW_004516262.1	Scaffold909	32868	CC	AA	1946985099
SNP_P4_148343_33050	NW_004516262.1	Scaffold909	33050	AA	CC	1946985101
SNP_P4_148344_33589	NW_004516262.1	Scaffold909	33589	CC	TT	1946985103
SNP_P4_148345_35491	NW_004516262.1	Scaffold909	35491	GG	AA	1946985105
SNP_P4_148346_35609	NW_004516262.1	Scaffold909	35609	TT	AA	1946985107
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SNP_P4_148349_35684	NW_004516262.1	Scaffold909	35684	GG	AA	1946985113
SNP_P4_148350_35811	NW_004516262.1	Scaffold909	35811	CC	AA	1946985115
SNP_P4_148351_35861	NW_004516262.1	Scaffold909	35861	GG	AA	1946985117
SNP_P4_148352_35933	NW_004516262.1	Scaffold909	35933	GG	AA	1946985119
SNP_P4_148353_35942	NW_004516262.1	Scaffold909	35942	AA	GG	1946985121
SNP_P4_148354_35975	NW_004516262.1	Scaffold909	35975	TT	CC	1946985123
SNP_P4_148355_35982	NW_004516262.1	Scaffold909	35982	TT	CC	1946985125
SNP_P4_148356_35990	NW_004516262.1	Scaffold909	35990	CC	TT	1946985127
SNP_P4_148357_36043	NW_004516262.1	Scaffold909	36043	AA	TT	1946985129
SNP_P4_148358_37048	NW_004516262.1	Scaffold909	37048	CC	TT	1946985130
SNP_P4_148359_37050	NW_004516262.1	Scaffold909	37050	AA	GG	1946985132
SNP_P4_148360_44341	NW_004516262.1	Scaffold909	44341	GG	AA	1946985134
SNP_P4_148361_44360	NW_004516262.1	Scaffold909	44360	CC	TT	1946985136
SNP_P4_148362_44383	NW_004516262.1	Scaffold909	44383	TT	CC	1946985138
SNP_P4_148363_44388	NW_004516262.1	Scaffold909	44388	AA	GG	1946985140
SNP_P4_148364_53770	NW_004516262.1	Scaffold909	53770	GG	AA	1946985141
SNP_P4_148365_53886	NW_004516262.1	Scaffold909	53886	CC	TT	1946985143

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_148367_54000	NW_004516262.1	Scaffold909	54000	TT	CC	1946985147
SNP_P4_148368_54146	NW_004516262.1	Scaffold909	54146	CC	TT	1946985149
SNP_P4_148369_54224	NW_004516262.1	Scaffold909	54224	CC	TT	1946985151
SNP_P4_148370_54501	NW_004516262.1	Scaffold909	54501	TT	CC	1946985153
SNP_P4_148371_54593	NW_004516262.1	Scaffold909	54593	CC	TT	1946985155
SNP_P4_148372_54596	NW_004516262.1	Scaffold909	54596	TT	CC	1946985156
SNP_P4_148373_3938	NW_004516263.1	Scaffold910	3938	TT	CC	1946985158
SNP_P4_148374_4399	NW_004516263.1	Scaffold910	4399	GG	AA	1946985160
SNP_P4_148375_8557	NW_004516263.1	Scaffold910	8557	CC	TT	1946985162
SNP_P4_148376_8620	NW_004516263.1	Scaffold910	8620	AA	GG	1946985164
SNP_P4_148377_11262	NW_004516263.1	Scaffold910	11262	GG	AA	1946985166
SNP_P4_148378_9008	NW_004516264.1	Scaffold913	9008	CC	TT	1946985168
SNP_P4_148379_9014	NW_004516264.1	Scaffold913	9014	GG	AA	1946985170
SNP_P4_148381_15525	NW_004516264.1	Scaffold913	15525	CC	AA	1946985172
SNP_P4_148382_40442	NW_004516264.1	Scaffold913	40442	TT	GG	1946985174
SNP_P4_148383_40444	NW_004516264.1	Scaffold913	40444	TT	GG	1946985176
SNP_P4_148384_62173	NW_004516264.1	Scaffold913	62173	TT	AA	1946985178
SNP_P4_148385_76998	NW_004516264.1	Scaffold913	76998	GG	TT	1946985180
SNP_P4_148386_82812	NW_004516264.1	Scaffold913	82812	AA	GG	1946985182
SNP_P4_148387_82830	NW_004516264.1	Scaffold913	82830	AA	CC	1946985184
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SNP_P4_148391_119681	NW_004516264.1	Scaffold913	119681	GG	AA	1946985192
SNP_P4_148392_120274	NW_004516264.1	Scaffold913	120274	GG	AA	1946985194
SNP_P4_148394_124958	NW_004516264.1	Scaffold913	124958	CC	TT	1946985196
SNP_P4_148395_125038	NW_004516264.1	Scaffold913	125038	GG	AA	1946985198
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SNP_P4_148397_139166	NW_004516264.1	Scaffold913	139166	AA	GG	1946985202
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SNP_P4_148406_140862	NW_004516264.1	Scaffold913	140862	TT	GG	1946985216
SNP_P4_148407_140863	NW_004516264.1	Scaffold913	140863	GG	AA	1946985218
SNP_P4_148408_140893	NW_004516264.1	Scaffold913	140893	TT	CC	1946985220
SNP_P4_148409_140908	NW_004516264.1	Scaffold913	140908	GG	AA	1946985222
SNP_P4_148410_140909	NW_004516264.1	Scaffold913	140909	CC	TT	1946985224

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_148412_140931	NW_004516264.1	Scaffold913	140931	GG	AA	1946985228
SNP_P4_148413_140989	NW_004516264.1	Scaffold913	140989	AA	GG	1946985230
SNP_P4_148414_141018	NW_004516264.1	Scaffold913	141018	GG	AA	1946985233
SNP_P4_148415_141045	NW_004516264.1	Scaffold913	141045	AA	TT	1946985235
SNP_P4_148416_141049	NW_004516264.1	Scaffold913	141049	AA	TT	1946985237
SNP_P4_148417_141055	NW_004516264.1	Scaffold913	141055	AA	TT	1946985239
SNP_P4_148418_141101	NW_004516264.1	Scaffold913	141101	AA	GG	1946985242
SNP_P4_148419_141103	NW_004516264.1	Scaffold913	141103	CC	TT	1946985244
SNP_P4_148420_141134	NW_004516264.1	Scaffold913	141134	TT	AA	1946985246
SNP_P4_148421_141145	NW_004516264.1	Scaffold913	141145	GG	AA	1946985248
SNP_P4_148422_141147	NW_004516264.1	Scaffold913	141147	TT	AA	1946985250
SNP_P4_148423_141154	NW_004516264.1	Scaffold913	141154	GG	AA	1946985252
SNP_P4_148424_141171	NW_004516264.1	Scaffold913	141171	AA	GG	1946985254
SNP_P4_148425_141263	NW_004516264.1	Scaffold913	141263	CC	GG	1946985256
SNP_P4_148426_141271	NW_004516264.1	Scaffold913	141271	AA	GG	1946985258
SNP_P4_148427_141457	NW_004516264.1	Scaffold913	141457	CC	TT	1946985261
SNP_P4_148428_143824	NW_004516264.1	Scaffold913	143824	AA	GG	1946985263
SNP_P4_148429_143829	NW_004516264.1	Scaffold913	143829	TT	GG	1946985265
SNP_P4_148430_145607	NW_004516264.1	Scaffold913	145607	GG	AA	1946985267
SNP_P4_148432_220023	NW_004516264.1	Scaffold913	220023	AA	GG	1946985269
SNP_P4_148433_221954	NW_004516264.1	Scaffold913	221954	TT	CC	1946985272
SNP_P4_148434_230400	NW_004516264.1	Scaffold913	230400	AA	CC	1946985274
SNP_P4_148435_230404	NW_004516264.1	Scaffold913	230404	TT	CC	1946985276
SNP_P4_148436_230783	NW_004516264.1	Scaffold913	230783	TT	AA	1946985278
SNP_P4_148437_230784	NW_004516264.1	Scaffold913	230784	TT	AA	1946985280
SNP_P4_148438_230860	NW_004516264.1	Scaffold913	230860	CC	AA	1946985282
SNP_P4_148439_231121	NW_004516264.1	Scaffold913	231121	TT	CC	1946985284
SNP_P4_148440_251456	NW_004516264.1	Scaffold913	251456	GG	CC	1946985286
SNP_P4_148443_251775	NW_004516264.1	Scaffold913	251775	GG	AA	1946985288
SNP_P4_148444_251781	NW_004516264.1	Scaffold913	251781	AA	GG	1946985291
SNP_P4_148445_251868	NW_004516264.1	Scaffold913	251868	CC	TT	1946985293
SNP_P4_148446_251874	NW_004516264.1	Scaffold913	251874	AA	TT	1946985295
SNP_P4_148448_252036	NW_004516264.1	Scaffold913	252036	AA	GG	1946985297
SNP_P4_148451_269226	NW_004516264.1	Scaffold913	269226	GG	AA	1946985299
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SNP_P4_148453_275788	NW_004516264.1	Scaffold913	275788	CC	TT	1946985303
SNP_P4_148454_276074	NW_004516264.1	Scaffold913	276074	AA	GG	1946985305
SNP_P4_148455_276095	NW_004516264.1	Scaffold913	276095	AA	CC	1946985307
SNP_P4_148456_276128	NW_004516264.1	Scaffold913	276128	AA	GG	1946985309
SNP_P4_148458_283248	NW_004516264.1	Scaffold913	283248	AA	TT	1946985311
SNP_P4_148459_283469	NW_004516264.1	Scaffold913	283469	AA	GG	1946985313

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_148461_304686	NW_004516264.1	Scaffold913	304686	TT	GG	1946985317
SNP_P4_148462_304700	NW_004516264.1	Scaffold913	304700	TT	CC	1946985319
SNP_P4_148463_304706	NW_004516264.1	Scaffold913	304706	TT	CC	1946985321
SNP_P4_148464_304823	NW_004516264.1	Scaffold913	304823	GG	AA	1946985323
SNP_P4_148465_306028	NW_004516264.1	Scaffold913	306028	CC	TT	1946985325
SNP_P4_148466_306344	NW_004516264.1	Scaffold913	306344	TT	CC	1946985327
SNP_P4_148467_306357	NW_004516264.1	Scaffold913	306357	TT	CC	1946985329
SNP_P4_148468_306360	NW_004516264.1	Scaffold913	306360	GG	AA	1946985331
SNP_P4_148469_306372	NW_004516264.1	Scaffold913	306372	TT	GG	1946985333
SNP_P4_148470_306407	NW_004516264.1	Scaffold913	306407	TT	CC	1946985335
SNP_P4_148471_310132	NW_004516264.1	Scaffold913	310132	TT	CC	1946985337
SNP_P4_148472_310138	NW_004516264.1	Scaffold913	310138	CC	GG	1946985340
SNP_P4_148473_310149	NW_004516264.1	Scaffold913	310149	AA	CC	1946985342
SNP_P4_148474_310156	NW_004516264.1	Scaffold913	310156	GG	AA	1946985344
SNP_P4_148475_318878	NW_004516264.1	Scaffold913	318878	CC	AA	1946985346
SNP_P4_148476_319207	NW_004516264.1	Scaffold913	319207	CC	TT	1946985348
SNP_P4_148477_323145	NW_004516264.1	Scaffold913	323145	CC	TT	1946985350
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SNP_P4_148488_6210	NW_004516265.1	Scaffold914	6210	TT	CC	1946985369
SNP_P4_148489_8530	NW_004516265.1	Scaffold914	8530	CC	TT	1946985371
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SNP_P4_148491_20664	NW_004516265.1	Scaffold914	20664	TT	AA	1946985375
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SNP_P4_148494_20680	NW_004516265.1	Scaffold914	20680	AA	GG	1946985381
SNP_P4_148495_20717	NW_004516265.1	Scaffold914	20717	AA	TT	1946985383
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SNP_P4_148497_20909	NW_004516265.1	Scaffold914	20909	TT	CC	1946985387
SNP_P4_148498_22407	NW_004516265.1	Scaffold914	22407	TT	CC	1946985389
SNP_P4_148499_26777	NW_004516265.1	Scaffold914	26777	GG	TT	1946985391
SNP_P4_148500_31748	NW_004516265.1	Scaffold914	31748	AA	GG	1946985393
SNP_P4_148501_31754	NW_004516265.1	Scaffold914	31754	GG	AA	1946985395
SNP_P4_148502_31763	NW_004516265.1	Scaffold914	31763	AA	CC	1946985397
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_148506_32720	NW_004516265.1	Scaffold914	32720	AA	GG	1946985405
SNP_P4_148507_41454	NW_004516265.1	Scaffold914	41454	AA	GG	1946985407
SNP_P4_148508_41459	NW_004516265.1	Scaffold914	41459	TT	CC	1946985409
SNP_P4_148509_41766	NW_004516265.1	Scaffold914	41766	CC	TT	1946985411
SNP_P4_148510_41854	NW_004516265.1	Scaffold914	41854	CC	TT	1946985413
SNP_P4_148511_43051	NW_004516265.1	Scaffold914	43051	TT	AA	1946985415
SNP_P4_148512_103814	NW_004516265.1	Scaffold914	103814	TT	GG	1946985417
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SNP_P4_148515_131547	NW_004516265.1	Scaffold914	131547	AA	GG	1946985421
SNP_P4_148516_131589	NW_004516265.1	Scaffold914	131589	GG	CC	1946985423
SNP_P4_148517_137728	NW_004516265.1	Scaffold914	137728	GG	AA	1946985425
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SNP_P4_148519_142141	NW_004516265.1	Scaffold914	142141	TT	CC	1946985429
SNP_P4_148520_152064	NW_004516265.1	Scaffold914	152064	CC	TT	1946985431
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SNP_P4_148522_180	NW_004516266.1	Scaffold916	180	GG	AA	1946985435
SNP_P4_148524_425	NW_004516266.1	Scaffold916	425	TT	CC	1946985437
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SNP_P4_148527_2178	NW_004516266.1	Scaffold916	2178	AA	GG	1946985443
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SNP_P4_148536_4266	NW_004516266.1	Scaffold916	4266	AA	GG	1946985455
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SNP_P4_148546_4908	NW_004516266.1	Scaffold916	4908	GG	AA	1946985470
SNP_P4_148547_4935	NW_004516266.1	Scaffold916	4935	AA	GG	1946985472
SNP_P4_148548_5095	NW_004516266.1	Scaffold916	5095	CC	TT	1946985473
SNP_P4_148549_5162	NW_004516266.1	Scaffold916	5162	GG	CC	1946985476
SNP_P4_148550_5286	NW_004516266.1	Scaffold916	5286	TT	GG	1946985478
SNP_P4_148552_5353	NW_004516266.1	Scaffold916	5353	CC	TT	1946985480
SNP_P4_148553_5387	NW_004516266.1	Scaffold916	5387	AA	GG	1946985482
SNP_P4_148554_7654	NW_004516266.1	Scaffold916	7654	CC	AA	1946985484

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_148557_7744	NW_004516266.1	Scaffold916	7744	TT	AA	1946985490
SNP_P4_148559_7834	NW_004516266.1	Scaffold916	7834	AA	GG	1946985492
SNP_P4_148561_7938	NW_004516266.1	Scaffold916	7938	AA	GG	1946985494
SNP_P4_148562_8073	NW_004516266.1	Scaffold916	8073	CC	AA	1946985496
SNP_P4_148563_8105	NW_004516266.1	Scaffold916	8105	CC	TT	1946985498
SNP_P4_148564_8176	NW_004516266.1	Scaffold916	8176	CC	TT	1946985500
SNP_P4_148567_8323	NW_004516266.1	Scaffold916	8323	GG	AA	1946985502
SNP_P4_148568_8349	NW_004516266.1	Scaffold916	8349	GG	AA	1946985504
SNP_P4_148569_8568	NW_004516266.1	Scaffold916	8568	TT	CC	1946985506
SNP_P4_148570_8570	NW_004516266.1	Scaffold916	8570	GG	AA	1946985508
SNP_P4_148571_8580	NW_004516266.1	Scaffold916	8580	TT	AA	1946985511
SNP_P4_148572_8583	NW_004516266.1	Scaffold916	8583	TT	CC	1946985513
SNP_P4_148573_8605	NW_004516266.1	Scaffold916	8605	TT	AA	1946985515
SNP_P4_148574_8608	NW_004516266.1	Scaffold916	8608	TT	AA	1946985517
SNP_P4_148575_8684	NW_004516266.1	Scaffold916	8684	CC	TT	1946985520
SNP_P4_148576_8713	NW_004516266.1	Scaffold916	8713	TT	CC	1946985522
SNP_P4_148577_8725	NW_004516266.1	Scaffold916	8725	AA	TT	1946985524
SNP_P4_148578_8738	NW_004516266.1	Scaffold916	8738	TT	AA	1946985526
SNP_P4_148579_8745	NW_004516266.1	Scaffold916	8745	TT	CC	1946985529
SNP_P4_148580_8746	NW_004516266.1	Scaffold916	8746	TT	AA	1946985531
SNP_P4_148581_8747	NW_004516266.1	Scaffold916	8747	AA	TT	1946985533
SNP_P4_148582_8752	NW_004516266.1	Scaffold916	8752	TT	AA	1946985535
SNP_P4_148583_8753	NW_004516266.1	Scaffold916	8753	TT	AA	1946985537
SNP_P4_148584_8800	NW_004516266.1	Scaffold916	8800	CC	AA	1946985539
SNP_P4_148585_8802	NW_004516266.1	Scaffold916	8802	CC	TT	1946985541
SNP_P4_148586_8806	NW_004516266.1	Scaffold916	8806	GG	AA	1946985543
SNP_P4_148587_8819	NW_004516266.1	Scaffold916	8819	CC	GG	1946985545
SNP_P4_148588_8820	NW_004516266.1	Scaffold916	8820	AA	GG	1946985547
SNP_P4_148589_8827	NW_004516266.1	Scaffold916	8827	GG	AA	1946985550
SNP_P4_148590_8833	NW_004516266.1	Scaffold916	8833	GG	TT	1946985552
SNP_P4_148591_8919	NW_004516266.1	Scaffold916	8919	CC	TT	1946985554
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SNP_P4_148594_8982	NW_004516266.1	Scaffold916	8982	AA	TT	1946985561
SNP_P4_148595_9100	NW_004516266.1	Scaffold916	9100	GG	CC	1946985563
SNP_P4_148597_9298	NW_004516266.1	Scaffold916	9298	CC	AA	1946985565
SNP_P4_148598_9433	NW_004516266.1	Scaffold916	9433	CC	TT	1946985567
SNP_P4_148599_9470	NW_004516266.1	Scaffold916	9470	TT	CC	1946985569
SNP_P4_148601_9538	NW_004516266.1	Scaffold916	9538	AA	CC	1946985571
SNP_P4_148602_9554	NW_004516266.1	Scaffold916	9554	TT	CC	1946985573

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_148604_9621	NW_004516266.1	Scaffold916	9621	AA	GG	1946985577
SNP_P4_148605_9638	NW_004516266.1	Scaffold916	9638	TT	CC	1946985579
SNP_P4_148606_9700	NW_004516266.1	Scaffold916	9700	CC	TT	1946985581
SNP_P4_148607_9708	NW_004516266.1	Scaffold916	9708	AA	GG	1946985583
SNP_P4_148608_9760	NW_004516266.1	Scaffold916	9760	GG	AA	1946985585
SNP_P4_148609_9806	NW_004516266.1	Scaffold916	9806	AA	GG	1946985587
SNP_P4_148610_9862	NW_004516266.1	Scaffold916	9862	TT	CC	1946985589
SNP_P4_148611_9881	NW_004516266.1	Scaffold916	9881	TT	CC	1946985591
SNP_P4_148612_9882	NW_004516266.1	Scaffold916	9882	TT	CC	1946985593
SNP_P4_148614_10038	NW_004516266.1	Scaffold916	10038	TT	AA	1946985595
SNP_P4_148615_10049	NW_004516266.1	Scaffold916	10049	CC	TT	1946985597
SNP_P4_148616_18593	NW_004516266.1	Scaffold916	18593	TT	CC	1946985599
SNP_P4_148617_18676	NW_004516266.1	Scaffold916	18676	AA	CC	1946985601
SNP_P4_148618_19085	NW_004516266.1	Scaffold916	19085	TT	AA	1946985603
SNP_P4_148619_21502	NW_004516266.1	Scaffold916	21502	GG	TT	1946985605
SNP_P4_148620_31658	NW_004516266.1	Scaffold916	31658	TT	CC	1946985607
SNP_P4_148621_90797	NW_004516266.1	Scaffold916	90797	AA	GG	1946985609
SNP_P4_148622_99625	NW_004516266.1	Scaffold916	99625	TT	CC	1946985611
SNP_P4_148623_99628	NW_004516266.1	Scaffold916	99628	CC	TT	1946985613
SNP_P4_148624_99965	NW_004516266.1	Scaffold916	99965	CC	GG	1946985615
SNP_P4_148625_99980	NW_004516266.1	Scaffold916	99980	GG	AA	1946985617
SNP_P4_148626_99981	NW_004516266.1	Scaffold916	99981	GG	AA	1946985619
SNP_P4_148627_100790	NW_004516266.1	Scaffold916	100790	GG	TT	1946985621
SNP_P4_148628_101412	NW_004516266.1	Scaffold916	101412	TT	AA	1946985623
SNP_P4_148629_101419	NW_004516266.1	Scaffold916	101419	TT	CC	1946985625
SNP_P4_148630_101459	NW_004516266.1	Scaffold916	101459	TT	AA	1946985627
SNP_P4_148631_104496	NW_004516266.1	Scaffold916	104496	TT	AA	1946985629
SNP_P4_148632_105293	NW_004516266.1	Scaffold916	105293	TT	CC	1946985631
SNP_P4_148633_108146	NW_004516266.1	Scaffold916	108146	GG	AA	1946985633
SNP_P4_148634_108155	NW_004516266.1	Scaffold916	108155	GG	AA	1946985635
SNP_P4_148635_108169	NW_004516266.1	Scaffold916	108169	CC	AA	1946985638
SNP_P4_148637_111188	NW_004516266.1	Scaffold916	111188	TT	AA	1946985640
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SNP_P4_148639_115128	NW_004516266.1	Scaffold916	115128	GG	CC	1946985644
SNP_P4_148640_117863	NW_004516266.1	Scaffold916	117863	CC	AA	1946985646
SNP_P4_148641_117954	NW_004516266.1	Scaffold916	117954	TT	AA	1946985648
SNP_P4_148642_118125	NW_004516266.1	Scaffold916	118125	TT	GG	1946985650
SNP_P4_148643_118326	NW_004516266.1	Scaffold916	118326	CC	TT	1946985651
SNP_P4_148644_118342	NW_004516266.1	Scaffold916	118342	TT	GG	1946985653
SNP_P4_148645_126610	NW_004516266.1	Scaffold916	126610	TT	CC	1946985655
SNP_P4_148646_126630	NW_004516266.1	Scaffold916	126630	AA	TT	1946985657

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_148649_134956	NW_004516266.1	Scaffold916	134956	TT	CC	1946985662
SNP_P4_148650_166341	NW_004516266.1	Scaffold916	166341	CC	TT	1946985664
SNP_P4_148651_166342	NW_004516266.1	Scaffold916	166342	TT	CC	1946985665
SNP_P4_148652_166353	NW_004516266.1	Scaffold916	166353	CC	TT	1946985667
SNP_P4_148653_166399	NW_004516266.1	Scaffold916	166399	TT	GG	1946985669
SNP_P4_148654_166416	NW_004516266.1	Scaffold916	166416	GG	AA	1946985672
SNP_P4_148655_170303	NW_004516266.1	Scaffold916	170303	GG	AA	1946985674
SNP_P4_148656_170609	NW_004516266.1	Scaffold916	170609	CC	TT	1946985676
SNP_P4_148657_177485	NW_004516266.1	Scaffold916	177485	AA	GG	1946985678
SNP_P4_148658_177802	NW_004516266.1	Scaffold916	177802	TT	CC	1946985680
SNP_P4_148659_178103	NW_004516266.1	Scaffold916	178103	AA	GG	1946985682
SNP_P4_148660_178106	NW_004516266.1	Scaffold916	178106	TT	AA	1946985684
SNP_P4_148661_178107	NW_004516266.1	Scaffold916	178107	TT	AA	1946985686
SNP_P4_148662_180943	NW_004516266.1	Scaffold916	180943	AA	GG	1946985688
SNP_P4_148663_186982	NW_004516266.1	Scaffold916	186982	CC	TT	1946985690
SNP_P4_148664_187928	NW_004516266.1	Scaffold916	187928	AA	TT	1946985692
SNP_P4_148665_192252	NW_004516266.1	Scaffold916	192252	GG	AA	1946985694
SNP_P4_148666_202298	NW_004516266.1	Scaffold916	202298	TT	GG	1946985696
SNP_P4_148667_202305	NW_004516266.1	Scaffold916	202305	GG	CC	1946985698
SNP_P4_148668_215366	NW_004516266.1	Scaffold916	215366	TT	CC	1946985700
SNP_P4_148669_247661	NW_004516266.1	Scaffold916	247661	GG	AA	1946985702
SNP_P4_148671_256398	NW_004516266.1	Scaffold916	256398	TT	GG	1946985704
SNP_P4_148672_281527	NW_004516266.1	Scaffold916	281527	AA	TT	1946985706
SNP_P4_148673_282441	NW_004516266.1	Scaffold916	282441	TT	CC	1946985708
SNP_P4_148674_282444	NW_004516266.1	Scaffold916	282444	AA	CC	1946985710
SNP_P4_148675_284079	NW_004516266.1	Scaffold916	284079	CC	AA	1946985711
SNP_P4_148676_324224	NW_004516266.1	Scaffold916	324224	CC	AA	1946985713
SNP_P4_148677_328929	NW_004516266.1	Scaffold916	328929	AA	CC	1946985715
SNP_P4_148678_335665	NW_004516266.1	Scaffold916	335665	GG	CC	1946985717
SNP_P4_148679_342740	NW_004516266.1	Scaffold916	342740	AA	CC	1946985719
SNP_P4_148680_362345	NW_004516266.1	Scaffold916	362345	CC	TT	1946985721
SNP_P4_148682_376947	NW_004516266.1	Scaffold916	376947	TT	GG	1946985723
SNP_P4_148685_499242	NW_004516266.1	Scaffold916	499242	TT	AA	1946985725
SNP_P4_148687_499514	NW_004516266.1	Scaffold916	499514	GG	CC	1946985727
SNP_P4_148688_556037	NW_004516266.1	Scaffold916	556037	TT	AA	1946985729
SNP_P4_148689_556051	NW_004516266.1	Scaffold916	556051	TT	GG	1946985731
SNP_P4_148690_563710	NW_004516266.1	Scaffold916	563710	GG	AA	1946985733
SNP_P4_148691_567500	NW_004516266.1	Scaffold916	567500	GG	AA	1946985735
SNP_P4_148692_5240	NW_004516268.1	Scaffold918	5240	TT	AA	1946985736
SNP_P4_148693_13914	NW_004516268.1	Scaffold918	13914	TT	CC	1946985738
SNP_P4_148694_13926	NW_004516268.1	Scaffold918	13926	TT	AA	1946985740

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_148697_34767	NW_004516268.1	Scaffold918	34767	GG	AA	1946985746
SNP_P4_148699_49319	NW_004516268.1	Scaffold918	49319	AA	CC	1946985748
SNP_P4_148700_12935	NW_004516269.1	Scaffold919	12935	TT	CC	1946985750
SNP_P4_148701_12976	NW_004516269.1	Scaffold919	12976	TT	AA	1946985752
SNP_P4_148702_12982	NW_004516269.1	Scaffold919	12982	AA	GG	1946985754
SNP_P4_148703_12996	NW_004516269.1	Scaffold919	12996	AA	GG	1946985756
SNP_P4_148704_13003	NW_004516269.1	Scaffold919	13003	AA	GG	1946985758
SNP_P4_148705_13008	NW_004516269.1	Scaffold919	13008	AA	GG	1946985760
SNP_P4_148706_13220	NW_004516269.1	Scaffold919	13220	GG	TT	1946985762
SNP_P4_148707_13221	NW_004516269.1	Scaffold919	13221	TT	CC	1946985764
SNP_P4_148708_13254	NW_004516269.1	Scaffold919	13254	AA	GG	1946985766
SNP_P4_148709_13272	NW_004516269.1	Scaffold919	13272	GG	AA	1946985768
SNP_P4_148710_13365	NW_004516269.1	Scaffold919	13365	GG	AA	1946985770
SNP_P4_148711_13410	NW_004516269.1	Scaffold919	13410	TT	CC	1946985772
SNP_P4_148712_13416	NW_004516269.1	Scaffold919	13416	AA	TT	1946985774
SNP_P4_148713_13437	NW_004516269.1	Scaffold919	13437	GG	AA	1946985776
SNP_P4_148714_13441	NW_004516269.1	Scaffold919	13441	AA	GG	1946985778
SNP_P4_148715_13496	NW_004516269.1	Scaffold919	13496	GG	CC	1946985780
SNP_P4_148716_13886	NW_004516269.1	Scaffold919	13886	TT	CC	1946985782
SNP_P4_148717_13889	NW_004516269.1	Scaffold919	13889	GG	AA	1946985784
SNP_P4_148718_14694	NW_004516269.1	Scaffold919	14694	CC	AA	1946985786
SNP_P4_148719_24151	NW_004516269.1	Scaffold919	24151	GG	TT	1946985788
SNP_P4_148720_24194	NW_004516269.1	Scaffold919	24194	GG	AA	1946985789
SNP_P4_148721_54776	NW_004516269.1	Scaffold919	54776	GG	TT	1946985791
SNP_P4_148722_54781	NW_004516269.1	Scaffold919	54781	AA	TT	1946985793
SNP_P4_148723_54790	NW_004516269.1	Scaffold919	54790	CC	AA	1946985796
SNP_P4_148724_55383	NW_004516269.1	Scaffold919	55383	TT	CC	1946985798
SNP_P4_148725_70368	NW_004516269.1	Scaffold919	70368	CC	TT	1946985800
SNP_P4_148727_73642	NW_004516269.1	Scaffold919	73642	TT	CC	1946985802
SNP_P4_148728_73713	NW_004516269.1	Scaffold919	73713	CC	AA	1946985804
SNP_P4_148730_73753	NW_004516269.1	Scaffold919	73753	CC	TT	1946985806
SNP_P4_148732_85033	NW_004516269.1	Scaffold919	85033	AA	GG	1946985808
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SNP_P4_148734_85131	NW_004516269.1	Scaffold919	85131	CC	TT	1946985813
SNP_P4_148735_85144	NW_004516269.1	Scaffold919	85144	GG	AA	1946985815
SNP_P4_148736_85150	NW_004516269.1	Scaffold919	85150	GG	AA	1946985817
SNP_P4_148737_94032	NW_004516269.1	Scaffold919	94032	CC	GG	1946985819
SNP_P4_148738_94141	NW_004516269.1	Scaffold919	94141	AA	TT	1946985821
SNP_P4_148739_94142	NW_004516269.1	Scaffold919	94142	TT	GG	1946985823
SNP_P4_148740_94425	NW_004516269.1	Scaffold919	94425	AA	GG	1946985825

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_148743_97994	NW_004516269.1	Scaffold919	97994	GG	TT	1946985830
SNP_P4_148744_98001	NW_004516269.1	Scaffold919	98001	TT	AA	1946985832
SNP_P4_148745_113731	NW_004516269.1	Scaffold919	113731	GG	AA	1946985834
SNP_P4_148746_113935	NW_004516269.1	Scaffold919	113935	AA	GG	1946985836
SNP_P4_148747_113946	NW_004516269.1	Scaffold919	113946	CC	GG	1946985838
SNP_P4_148748_114007	NW_004516269.1	Scaffold919	114007	AA	GG	1946985840
SNP_P4_148749_114021	NW_004516269.1	Scaffold919	114021	TT	CC	1946985842
SNP_P4_148750_114410	NW_004516269.1	Scaffold919	114410	AA	GG	1946985844
SNP_P4_148751_114684	NW_004516269.1	Scaffold919	114684	GG	AA	1946985846
SNP_P4_148752_114967	NW_004516269.1	Scaffold919	114967	AA	GG	1946985848
SNP_P4_148753_115023	NW_004516269.1	Scaffold919	115023	GG	AA	1946985850
SNP_P4_148754_115057	NW_004516269.1	Scaffold919	115057	CC	TT	1946985852
SNP_P4_148755_115127	NW_004516269.1	Scaffold919	115127	TT	CC	1946985854
SNP_P4_148756_115139	NW_004516269.1	Scaffold919	115139	TT	GG	1946985856
SNP_P4_148757_115152	NW_004516269.1	Scaffold919	115152	AA	GG	1946985858
SNP_P4_148758_115180	NW_004516269.1	Scaffold919	115180	GG	TT	1946985860
SNP_P4_148759_115343	NW_004516269.1	Scaffold919	115343	AA	GG	1946985862
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SNP_P4_148771_151618	NW_004516269.1	Scaffold919	151618	TT	CC	1946985885
SNP_P4_148772_151642	NW_004516269.1	Scaffold919	151642	AA	GG	1946985887
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SNP_P4_148775_172718	NW_004516269.1	Scaffold919	172718	TT	CC	1946985893
SNP_P4_148776_180797	NW_004516269.1	Scaffold919	180797	CC	TT	1946985895
SNP_P4_148777_180822	NW_004516269.1	Scaffold919	180822	AA	GG	1946985897
SNP_P4_148778_180823	NW_004516269.1	Scaffold919	180823	CC	TT	1946985899
SNP_P4_148779_180834	NW_004516269.1	Scaffold919	180834	TT	CC	1946985900
SNP_P4_148780_183363	NW_004516269.1	Scaffold919	183363	GG	AA	1946985902
SNP_P4_148781_183421	NW_004516269.1	Scaffold919	183421	TT	CC	1946985904
SNP_P4_148783_183458	NW_004516269.1	Scaffold919	183458	AA	CC	1946985906

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SNP_P4_148785_183509	NW_004516269.1	Scaffold919	183509	TT	CC	1946985911
SNP_P4_148786_183514	NW_004516269.1	Scaffold919	183514	AA	GG	1946985913
SNP_P4_148787_183543	NW_004516269.1	Scaffold919	183543	GG	AA	1946985915
SNP_P4_148788_183549	NW_004516269.1	Scaffold919	183549	CC	TT	1946985917
SNP_P4_148789_183566	NW_004516269.1	Scaffold919	183566	TT	AA	1946985918
SNP_P4_148790_183606	NW_004516269.1	Scaffold919	183606	AA	GG	1946985920
SNP_P4_148791_183750	NW_004516269.1	Scaffold919	183750	AA	CC	1946985922
SNP_P4_148792_183812	NW_004516269.1	Scaffold919	183812	CC	AA	1946985924
SNP_P4_148793_183814	NW_004516269.1	Scaffold919	183814	CC	TT	1946985927
SNP_P4_148794_186117	NW_004516269.1	Scaffold919	186117	GG	AA	1946985928
SNP_P4_148795_186123	NW_004516269.1	Scaffold919	186123	GG	AA	1946985930
SNP_P4_148796_186195	NW_004516269.1	Scaffold919	186195	TT	CC	1946985932
SNP_P4_148797_186231	NW_004516269.1	Scaffold919	186231	GG	AA	1946985934
SNP_P4_148798_186237	NW_004516269.1	Scaffold919	186237	GG	AA	1946985936
SNP_P4_148799_186250	NW_004516269.1	Scaffold919	186250	CC	TT	1946985938
SNP_P4_148800_186288	NW_004516269.1	Scaffold919	186288	TT	AA	1946985940
SNP_P4_148801_186321	NW_004516269.1	Scaffold919	186321	TT	AA	1946985942
SNP_P4_148802_186532	NW_004516269.1	Scaffold919	186532	TT	CC	1946985944
SNP_P4_148803_186535	NW_004516269.1	Scaffold919	186535	GG	AA	1946985946
SNP_P4_148804_186547	NW_004516269.1	Scaffold919	186547	TT	GG	1946985947
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SNP_P4_148807_186571	NW_004516269.1	Scaffold919	186571	CC	TT	1946985953
SNP_P4_148808_186586	NW_004516269.1	Scaffold919	186586	TT	AA	1946985955
SNP_P4_148809_186594	NW_004516269.1	Scaffold919	186594	GG	AA	1946985957
SNP_P4_148810_186608	NW_004516269.1	Scaffold919	186608	CC	AA	1946985960
SNP_P4_148811_186610	NW_004516269.1	Scaffold919	186610	TT	CC	1946985961
SNP_P4_148812_186668	NW_004516269.1	Scaffold919	186668	AA	GG	1946985963
SNP_P4_148813_186671	NW_004516269.1	Scaffold919	186671	TT	CC	1946985965
SNP_P4_148814_187093	NW_004516269.1	Scaffold919	187093	TT	CC	1946985967
SNP_P4_148815_187170	NW_004516269.1	Scaffold919	187170	CC	TT	1946985969
SNP_P4_148816_187203	NW_004516269.1	Scaffold919	187203	TT	CC	1946985971
SNP_P4_148817_188597	NW_004516269.1	Scaffold919	188597	GG	AA	1946985973
SNP_P4_148818_188768	NW_004516269.1	Scaffold919	188768	TT	AA	1946985975
SNP_P4_148819_188772	NW_004516269.1	Scaffold919	188772	GG	AA	1946985977
SNP_P4_148820_188999	NW_004516269.1	Scaffold919	188999	CC	GG	1946985979
SNP_P4_148821_189097	NW_004516269.1	Scaffold919	189097	AA	TT	1946985981
SNP_P4_148822_189573	NW_004516269.1	Scaffold919	189573	CC	TT	1946985983
SNP_P4_148823_190123	NW_004516269.1	Scaffold919	190123	CC	GG	1946985985
SNP_P4_148824_190192	NW_004516269.1	Scaffold919	190192	TT	CC	1946985987
SNP_P4_148825_190204	NW_004516269.1	Scaffold919	190204	AA	GG	1946985989

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_148827_190318	NW_004516269.1	Scaffold919	190318	CC	GG	1946985993
SNP_P4_148829_190407	NW_004516269.1	Scaffold919	190407	CC	TT	1946985996
SNP_P4_148830_190429	NW_004516269.1	Scaffold919	190429	AA	CC	1946985998
SNP_P4_148831_190621	NW_004516269.1	Scaffold919	190621	AA	TT	1946986000
SNP_P4_148832_194034	NW_004516269.1	Scaffold919	194034	CC	TT	1946986001
SNP_P4_148833_194117	NW_004516269.1	Scaffold919	194117	TT	AA	1946986003
SNP_P4_148834_194180	NW_004516269.1	Scaffold919	194180	TT	AA	1946986005
SNP_P4_148835_194181	NW_004516269.1	Scaffold919	194181	CC	TT	1946986006
SNP_P4_148836_194706	NW_004516269.1	Scaffold919	194706	CC	TT	1946986008
SNP_P4_148837_194808	NW_004516269.1	Scaffold919	194808	AA	TT	1946986010
SNP_P4_148838_240131	NW_004516269.1	Scaffold919	240131	AA	GG	1946986013
SNP_P4_148839_301572	NW_004516269.1	Scaffold919	301572	GG	AA	1946986015
SNP_P4_148840_301622	NW_004516269.1	Scaffold919	301622	TT	AA	1946986017
SNP_P4_148841_301702	NW_004516269.1	Scaffold919	301702	CC	GG	1946986019
SNP_P4_148842_301768	NW_004516269.1	Scaffold919	301768	AA	TT	1946986021
SNP_P4_148843_301804	NW_004516269.1	Scaffold919	301804	CC	AA	1946986023
SNP_P4_148845_301855	NW_004516269.1	Scaffold919	301855	TT	CC	1946986025
SNP_P4_148846_301865	NW_004516269.1	Scaffold919	301865	GG	TT	1946986027
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SNP_P4_148851_303644	NW_004516269.1	Scaffold919	303644	GG	AA	1946986036
SNP_P4_148852_303677	NW_004516269.1	Scaffold919	303677	GG	AA	1946986038
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SNP_P4_148854_303953	NW_004516269.1	Scaffold919	303953	CC	TT	1946986042
SNP_P4_148855_304180	NW_004516269.1	Scaffold919	304180	CC	AA	1946986044
SNP_P4_148856_304339	NW_004516269.1	Scaffold919	304339	AA	GG	1946986046
SNP_P4_148858_443988	NW_004516269.1	Scaffold919	443988	TT	AA	1946986048
SNP_P4_148859_444498	NW_004516269.1	Scaffold919	444498	GG	AA	1946986050
SNP_P4_148860_448220	NW_004516269.1	Scaffold919	448220	CC	TT	1946986052
SNP_P4_148861_460953	NW_004516269.1	Scaffold919	460953	GG	AA	1946986054
SNP_P4_148862_465571	NW_004516269.1	Scaffold919	465571	CC	AA	1946986056
SNP_P4_148863_504440	NW_004516269.1	Scaffold919	504440	TT	CC	1946986058
SNP_P4_148864_505016	NW_004516269.1	Scaffold919	505016	CC	TT	1946986060
SNP_P4_148865_505422	NW_004516269.1	Scaffold919	505422	TT	CC	1946986062
SNP_P4_148866_516129	NW_004516269.1	Scaffold919	516129	GG	AA	1946986064
SNP_P4_148868_562074	NW_004516269.1	Scaffold919	562074	TT	CC	1946986066
SNP_P4_148869_572830	NW_004516269.1	Scaffold919	572830	GG	AA	1946986068
SNP_P4_148870_573071	NW_004516269.1	Scaffold919	573071	GG	AA	1946986070
SNP_P4_148871_573108	NW_004516269.1	Scaffold919	573108	AA	TT	1946986072

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_148873_573122	NW_004516269.1	Scaffold919	573122	GG	TT	1946986076
SNP_P4_148874_573127	NW_004516269.1	Scaffold919	573127	AA	TT	1946986078
SNP_P4_148875_573160	NW_004516269.1	Scaffold919	573160	AA	TT	1946986080
SNP_P4_148876_573177	NW_004516269.1	Scaffold919	573177	TT	CC	1946986082
SNP_P4_148877_573183	NW_004516269.1	Scaffold919	573183	AA	GG	1946986084
SNP_P4_148878_573199	NW_004516269.1	Scaffold919	573199	TT	CC	1946986086
SNP_P4_148880_589657	NW_004516269.1	Scaffold919	589657	TT	AA	1946986088
SNP_P4_148881_589907	NW_004516269.1	Scaffold919	589907	TT	AA	1946986090
SNP_P4_148882_603330	NW_004516269.1	Scaffold919	603330	TT	CC	1946986092
SNP_P4_148883_615578	NW_004516269.1	Scaffold919	615578	GG	AA	1946986094
SNP_P4_148884_627181	NW_004516269.1	Scaffold919	627181	AA	GG	1946986096
SNP_P4_148885_627246	NW_004516269.1	Scaffold919	627246	CC	AA	1946986098
SNP_P4_148886_628091	NW_004516269.1	Scaffold919	628091	TT	CC	1946986100
SNP_P4_148887_628123	NW_004516269.1	Scaffold919	628123	TT	CC	1946986102
SNP_P4_148888_644203	NW_004516269.1	Scaffold919	644203	TT	CC	1946986104
SNP_P4_148889_646069	NW_004516269.1	Scaffold919	646069	GG	AA	1946986106
SNP_P4_148890_662939	NW_004516269.1	Scaffold919	662939	TT	CC	1946986108
SNP_P4_148891_673182	NW_004516269.1	Scaffold919	673182	AA	GG	1946986110
SNP_P4_148892_673199	NW_004516269.1	Scaffold919	673199	AA	CC	1946986112
SNP_P4_148893_673244	NW_004516269.1	Scaffold919	673244	TT	CC	1946986114
SNP_P4_148894_673308	NW_004516269.1	Scaffold919	673308	AA	GG	1946986115
SNP_P4_148895_686065	NW_004516269.1	Scaffold919	686065	TT	CC	1946986117
SNP_P4_148896_686110	NW_004516269.1	Scaffold919	686110	CC	AA	1946986119
SNP_P4_148897_704453	NW_004516269.1	Scaffold919	704453	AA	GG	1946986122
SNP_P4_148898_704795	NW_004516269.1	Scaffold919	704795	GG	CC	1946986124
SNP_P4_148899_704807	NW_004516269.1	Scaffold919	704807	TT	AA	1946986126
SNP_P4_148900_711864	NW_004516269.1	Scaffold919	711864	TT	AA	1946986128
SNP_P4_148901_711872	NW_004516269.1	Scaffold919	711872	GG	AA	1946986130
SNP_P4_148902_718829	NW_004516269.1	Scaffold919	718829	AA	GG	1946986132
SNP_P4_148904_724326	NW_004516269.1	Scaffold919	724326	AA	GG	1946986134
SNP_P4_148905_724407	NW_004516269.1	Scaffold919	724407	CC	TT	1946986137
SNP_P4_148906_724414	NW_004516269.1	Scaffold919	724414	CC	TT	1946986139
SNP_P4_148907_724477	NW_004516269.1	Scaffold919	724477	CC	TT	1946986141
SNP_P4_148908_724501	NW_004516269.1	Scaffold919	724501	CC	TT	1946986143
SNP_P4_148909_724681	NW_004516269.1	Scaffold919	724681	TT	CC	1946986145
SNP_P4_148910_2943	NW_004516271.1	Scaffold922	2943	AA	GG	1946986148
SNP_P4_148911_13475	NW_004516271.1	Scaffold922	13475	AA	TT	1946986149
SNP_P4_148912_13477	NW_004516271.1	Scaffold922	13477	AA	GG	1946986151
SNP_P4_148913_13523	NW_004516271.1	Scaffold922	13523	AA	GG	1946986154
SNP_P4_148914_13535	NW_004516271.1	Scaffold922	13535	TT	GG	1946986156
SNP_P4_148915_13687	NW_004516271.1	Scaffold922	13687	AA	GG	1946986157

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_148917_13734	NW_004516271.1	Scaffold922	13734	AA	GG	1946986161
SNP_P4_148918_13864	NW_004516271.1	Scaffold922	13864	AA	TT	1946986164
SNP_P4_148919_21451	NW_004516271.1	Scaffold922	21451	AA	GG	1946986166
SNP_P4_148920_21483	NW_004516271.1	Scaffold922	21483	AA	GG	1946986168
SNP_P4_148922_21761	NW_004516271.1	Scaffold922	21761	CC	AA	1946986170
SNP_P4_148923_21765	NW_004516271.1	Scaffold922	21765	TT	CC	1946986172
SNP_P4_148924_21771	NW_004516271.1	Scaffold922	21771	TT	CC	1946986174
SNP_P4_148925_40527	NW_004516271.1	Scaffold922	40527	AA	TT	1946986176
SNP_P4_148926_40549	NW_004516271.1	Scaffold922	40549	AA	GG	1946986178
SNP_P4_148927_40629	NW_004516271.1	Scaffold922	40629	AA	CC	1946986180
SNP_P4_148928_40861	NW_004516271.1	Scaffold922	40861	TT	CC	1946986182
SNP_P4_148929_40871	NW_004516271.1	Scaffold922	40871	GG	TT	1946986184
SNP_P4_148930_40920	NW_004516271.1	Scaffold922	40920	AA	GG	1946986186
SNP_P4_148931_40932	NW_004516271.1	Scaffold922	40932	TT	CC	1946986188
SNP_P4_148932_40991	NW_004516271.1	Scaffold922	40991	GG	AA	1946986190
SNP_P4_148933_41033	NW_004516271.1	Scaffold922	41033	AA	GG	1946986192
SNP_P4_148934_41035	NW_004516271.1	Scaffold922	41035	TT	CC	1946986194
SNP_P4_148935_41060	NW_004516271.1	Scaffold922	41060	GG	AA	1946986196
SNP_P4_148936_47935	NW_004516271.1	Scaffold922	47935	GG	AA	1946986198
SNP_P4_148937_60529	NW_004516271.1	Scaffold922	60529	GG	AA	1946986200
SNP_P4_148938_78352	NW_004516271.1	Scaffold922	78352	TT	CC	1946986202
SNP_P4_148939_134593	NW_004516271.1	Scaffold922	134593	CC	TT	1946986204
SNP_P4_148940_135890	NW_004516271.1	Scaffold922	135890	GG	AA	1946986206
SNP_P4_148941_135958	NW_004516271.1	Scaffold922	135958	CC	TT	1946986208
SNP_P4_148942_147533	NW_004516271.1	Scaffold922	147533	GG	AA	1946986210
SNP_P4_148944_41778	NW_004516272.1	Scaffold924	41778	CC	TT	1946986212
SNP_P4_148945_56773	NW_004516272.1	Scaffold924	56773	AA	GG	1946986214
SNP_P4_148946_56780	NW_004516272.1	Scaffold924	56780	CC	AA	1946986216
SNP_P4_148947_56803	NW_004516272.1	Scaffold924	56803	AA	CC	1946986218
SNP_P4_148948_59788	NW_004516272.1	Scaffold924	59788	CC	TT	1946986220
SNP_P4_148949_67002	NW_004516272.1	Scaffold924	67002	GG	TT	1946986222
SNP_P4_148950_67647	NW_004516272.1	Scaffold924	67647	GG	TT	1946986224
SNP_P4_148951_78907	NW_004516272.1	Scaffold924	78907	TT	GG	1946986226
SNP_P4_148952_78915	NW_004516272.1	Scaffold924	78915	GG	TT	1946986228
SNP_P4_148953_78921	NW_004516272.1	Scaffold924	78921	GG	CC	1946986230
SNP_P4_148954_78927	NW_004516272.1	Scaffold924	78927	TT	GG	1946986232
SNP_P4_148955_80496	NW_004516272.1	Scaffold924	80496	GG	AA	1946986234
SNP_P4_148956_80505	NW_004516272.1	Scaffold924	80505	TT	GG	1946986236
SNP_P4_148957_96693	NW_004516272.1	Scaffold924	96693	AA	GG	1946986238
SNP_P4_148958_97009	NW_004516272.1	Scaffold924	97009	AA	TT	1946986240
SNP_P4_148959_97051	NW_004516272.1	Scaffold924	97051	AA	GG	1946986242

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_148961_115128	NW_004516272.1	Scaffold924	115128	GG	TT	1946986246
SNP_P4_148962_115173	NW_004516272.1	Scaffold924	115173	AA	TT	1946986248
SNP_P4_148963_115240	NW_004516272.1	Scaffold924	115240	AA	TT	1946986250
SNP_P4_148964_115243	NW_004516272.1	Scaffold924	115243	TT	CC	1946986252
SNP_P4_148965_120480	NW_004516272.1	Scaffold924	120480	AA	TT	1946986254
SNP_P4_148966_120563	NW_004516272.1	Scaffold924	120563	GG	CC	1946986256
SNP_P4_148967_120596	NW_004516272.1	Scaffold924	120596	AA	GG	1946986258
SNP_P4_148968_122063	NW_004516272.1	Scaffold924	122063	CC	TT	1946986260
SNP_P4_148969_122104	NW_004516272.1	Scaffold924	122104	CC	AA	1946986262
SNP_P4_148970_122477	NW_004516272.1	Scaffold924	122477	AA	GG	1946986264
SNP_P4_148971_122674	NW_004516272.1	Scaffold924	122674	GG	AA	1946986266
SNP_P4_148972_141015	NW_004516272.1	Scaffold924	141015	AA	GG	1946986268
SNP_P4_148973_151237	NW_004516272.1	Scaffold924	151237	TT	CC	1946986270
SNP_P4_148975_173220	NW_004516272.1	Scaffold924	173220	AA	GG	1946986272
SNP_P4_148977_196648	NW_004516272.1	Scaffold924	196648	TT	CC	1946986274
SNP_P4_148979_219045	NW_004516272.1	Scaffold924	219045	AA	CC	1946986276
SNP_P4_148980_219503	NW_004516272.1	Scaffold924	219503	TT	CC	1946986278
SNP_P4_148981_219621	NW_004516272.1	Scaffold924	219621	AA	CC	1946986280
SNP_P4_148982_219624	NW_004516272.1	Scaffold924	219624	TT	AA	1946986282
SNP_P4_148983_219874	NW_004516272.1	Scaffold924	219874	CC	TT	1946986284
SNP_P4_148985_224535	NW_004516272.1	Scaffold924	224535	AA	CC	1946986286
SNP_P4_148986_224549	NW_004516272.1	Scaffold924	224549	CC	AA	1946986288
SNP_P4_148987_224913	NW_004516272.1	Scaffold924	224913	AA	CC	1946986290
SNP_P4_148989_265605	NW_004516272.1	Scaffold924	265605	AA	GG	1946986292
SNP_P4_148990_265681	NW_004516272.1	Scaffold924	265681	GG	TT	1946986294
SNP_P4_148991_265931	NW_004516272.1	Scaffold924	265931	AA	GG	1946986296
SNP_P4_148992_265985	NW_004516272.1	Scaffold924	265985	TT	CC	1946986298
SNP_P4_148993_266026	NW_004516272.1	Scaffold924	266026	CC	TT	1946986300
SNP_P4_148994_266035	NW_004516272.1	Scaffold924	266035	TT	AA	1946986302
SNP_P4_148995_266047	NW_004516272.1	Scaffold924	266047	CC	TT	1946986304
SNP_P4_148996_266066	NW_004516272.1	Scaffold924	266066	GG	AA	1946986306
SNP_P4_148997_266075	NW_004516272.1	Scaffold924	266075	TT	CC	1946986309
SNP_P4_148998_266089	NW_004516272.1	Scaffold924	266089	GG	TT	1946986311
SNP_P4_148999_266104	NW_004516272.1	Scaffold924	266104	TT	CC	1946986313
SNP_P4_149000_266122	NW_004516272.1	Scaffold924	266122	CC	TT	1946986315
SNP_P4_149001_266210	NW_004516272.1	Scaffold924	266210	CC	TT	1946986317
SNP_P4_149002_8524	NW_004516273.1	Scaffold927	8524	TT	CC	1946986319
SNP_P4_149003_266	NW_004516274.1	Scaffold929	266	GG	TT	1946986321
SNP_P4_149004_286	NW_004516274.1	Scaffold929	286	GG	TT	1946986324
SNP_P4_149005_389	NW_004516274.1	Scaffold929	389	AA	GG	1946986326
SNP_P4_149006_683	NW_004516274.1	Scaffold929	683	AA	GG	1946986328

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_149008_833	NW_004516274.1	Scaffold929	833	CC	TT	1946986333
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SNP_P4_149015_9976	NW_004516274.1	Scaffold929	9976	CC	AA	1946986348
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_149055_17446	NW_004516274.1	Scaffold929	17446	CC	TT	1946986427
SNP_P4_149056_17471	NW_004516274.1	Scaffold929	17471	AA	CC	1946986430
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SNP_P4_149058_18127	NW_004516274.1	Scaffold929	18127	TT	CC	1946986434
SNP_P4_149059_18139	NW_004516274.1	Scaffold929	18139	GG	AA	1946986436
SNP_P4_149060_18143	NW_004516274.1	Scaffold929	18143	AA	CC	1946986438
SNP_P4_149062_65176	NW_004516276.1	Scaffold931	65176	AA	TT	1946986440
SNP_P4_149063_65348	NW_004516276.1	Scaffold931	65348	TT	CC	1946986442
SNP_P4_149065_81380	NW_004516276.1	Scaffold931	81380	TT	GG	1946986444
SNP_P4_149066_81799	NW_004516276.1	Scaffold931	81799	AA	GG	1946986446
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_149100_112419	NW_004516276.1	Scaffold931	112419	GG	AA	1946986510
SNP_P4_149101_112535	NW_004516276.1	Scaffold931	112535	CC	AA	1946986512
SNP_P4_149102_112548	NW_004516276.1	Scaffold931	112548	GG	TT	1946986514
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SNP_P4_149108_112882	NW_004516276.1	Scaffold931	112882	CC	AA	1946986526
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_149186_125877	NW_004516276.1	Scaffold931	125877	AA	GG	1946986671
SNP_P4_149187_144819	NW_004516276.1	Scaffold931	144819	AA	GG	1946986673

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_149226_167037	NW_004516276.1	Scaffold931	167037	GG	TT	1946986748
SNP_P4_149227_167075	NW_004516276.1	Scaffold931	167075	CC	AA	1946986750
SNP_P4_149228_167214	NW_004516276.1	Scaffold931	167214	TT	AA	1946986752
SNP_P4_149229_167277	NW_004516276.1	Scaffold931	167277	AA	GG	1946986754
SNP_P4_149230_167347	NW_004516276.1	Scaffold931	167347	GG	AA	1946986756

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_149231_167377	NW_004516276.1	Scaffold931	167377	CC	GG	1946986758
SNP_P4_149232_178432	NW_004516276.1	Scaffold931	178432	AA	GG	1946986760
SNP_P4_149233_179733	NW_004516276.1	Scaffold931	179733	AA	TT	1946986763
SNP_P4_149234_179978	NW_004516276.1	Scaffold931	179978	CC	TT	1946986765
SNP_P4_149235_180018	NW_004516276.1	Scaffold931	180018	TT	CC	1946986767
SNP_P4_149236_180088	NW_004516276.1	Scaffold931	180088	AA	CC	1946986769
SNP_P4_149237_180220	NW_004516276.1	Scaffold931	180220	AA	GG	1946986771
SNP_P4_149238_180221	NW_004516276.1	Scaffold931	180221	GG	AA	1946986773
SNP_P4_149241_180614	NW_004516276.1	Scaffold931	180614	AA	GG	1946986776
SNP_P4_149242_180647	NW_004516276.1	Scaffold931	180647	CC	AA	1946986778
SNP_P4_149243_180668	NW_004516276.1	Scaffold931	180668	TT	GG	1946986780
SNP_P4_149244_180707	NW_004516276.1	Scaffold931	180707	AA	GG	1946986782
SNP_P4_149245_180735	NW_004516276.1	Scaffold931	180735	AA	CC	1946986784
SNP_P4_149246_180741	NW_004516276.1	Scaffold931	180741	CC	AA	1946986787
SNP_P4_149247_180851	NW_004516276.1	Scaffold931	180851	TT	AA	1946986789
SNP_P4_149248_181059	NW_004516276.1	Scaffold931	181059	TT	AA	1946986791
SNP_P4_149249_181067	NW_004516276.1	Scaffold931	181067	CC	TT	1946986793
SNP_P4_149250_181118	NW_004516276.1	Scaffold931	181118	TT	AA	1946986795
SNP_P4_149251_181236	NW_004516276.1	Scaffold931	181236	TT	AA	1946986797
SNP_P4_149253_181336	NW_004516276.1	Scaffold931	181336	CC	TT	1946986799
SNP_P4_149254_181469	NW_004516276.1	Scaffold931	181469	TT	GG	1946986801
SNP_P4_149255_181510	NW_004516276.1	Scaffold931	181510	TT	AA	1946986804
SNP_P4_149256_181633	NW_004516276.1	Scaffold931	181633	GG	AA	1946986806
SNP_P4_149257_181846	NW_004516276.1	Scaffold931	181846	TT	GG	1946986808
SNP_P4_149258_182021	NW_004516276.1	Scaffold931	182021	AA	TT	1946986810
SNP_P4_149259_190242	NW_004516276.1	Scaffold931	190242	AA	GG	1946986812
SNP_P4_149260_190674	NW_004516276.1	Scaffold931	190674	GG	AA	1946986814
SNP_P4_149261_190679	NW_004516276.1	Scaffold931	190679	CC	TT	1946986816
SNP_P4_149262_190681	NW_004516276.1	Scaffold931	190681	CC	AA	1946986818
SNP_P4_149263_190693	NW_004516276.1	Scaffold931	190693	GG	AA	1946986819
SNP_P4_149264_190764	NW_004516276.1	Scaffold931	190764	TT	AA	1946986821
SNP_P4_149265_190803	NW_004516276.1	Scaffold931	190803	GG	AA	1946986823
SNP_P4_149266_197196	NW_004516276.1	Scaffold931	197196	TT	CC	1946986825
SNP_P4_149267_197223	NW_004516276.1	Scaffold931	197223	CC	GG	1946986827
SNP_P4_149268_202349	NW_004516276.1	Scaffold931	202349	AA	GG	1946986829
SNP_P4_149269_207529	NW_004516276.1	Scaffold931	207529	GG	TT	1946986831
SNP_P4_149270_209240	NW_004516276.1	Scaffold931	209240	TT	CC	1946986833
SNP_P4_149271_209592	NW_004516276.1	Scaffold931	209592	TT	CC	1946986835
SNP_P4_149272_240682	NW_004516276.1	Scaffold931	240682	TT	CC	1946986837
SNP_P4_149273_240756	NW_004516276.1	Scaffold931	240756	TT	AA	1946986839
SNP_P4_149274_242499	NW_004516276.1	Scaffold931	242499	TT	AA	1946986841
SNP_P4_149276_247590	NW_004516276.1	Scaffold931	247590	TT	CC	1946986843

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_149278_249533	NW_004516276.1	Scaffold931	249533	GG	TT	1946986847
SNP_P4_149279_249706	NW_004516276.1	Scaffold931	249706	TT	GG	1946986849
SNP_P4_149280_249823	NW_004516276.1	Scaffold931	249823	GG	AA	1946986851
SNP_P4_149281_250067	NW_004516276.1	Scaffold931	250067	TT	AA	1946986853
SNP_P4_149282_250395	NW_004516276.1	Scaffold931	250395	GG	CC	1946986855
SNP_P4_149283_250561	NW_004516276.1	Scaffold931	250561	GG	AA	1946986857
SNP_P4_149284_251641	NW_004516276.1	Scaffold931	251641	TT	CC	1946986859
SNP_P4_149285_251646	NW_004516276.1	Scaffold931	251646	CC	TT	1946986861
SNP_P4_149286_1784	NW_004516277.1	Scaffold933	1784	CC	TT	1946986863
SNP_P4_149287_1936	NW_004516277.1	Scaffold933	1936	TT	CC	1946986865
SNP_P4_149288_2531	NW_004516277.1	Scaffold933	2531	TT	CC	1946986867
SNP_P4_149291_3865	NW_004516277.1	Scaffold933	3865	TT	AA	1946986869
SNP_P4_149292_3918	NW_004516277.1	Scaffold933	3918	AA	GG	1946986871
SNP_P4_149293_3944	NW_004516277.1	Scaffold933	3944	GG	AA	1946986873
SNP_P4_149296_4600	NW_004516277.1	Scaffold933	4600	TT	GG	1946986875
SNP_P4_149297_4617	NW_004516277.1	Scaffold933	4617	TT	CC	1946986877
SNP_P4_149298_4794	NW_004516277.1	Scaffold933	4794	GG	AA	1946986879
SNP_P4_149299_4924	NW_004516277.1	Scaffold933	4924	AA	TT	1946986881
SNP_P4_149300_5016	NW_004516277.1	Scaffold933	5016	GG	AA	1946986884
SNP_P4_149301_5836	NW_004516277.1	Scaffold933	5836	CC	AA	1946986886
SNP_P4_149303_1117	NW_004516278.1	Scaffold934	1117	GG	AA	1946986888
SNP_P4_149304_1366	NW_004516278.1	Scaffold934	1366	GG	TT	1946986890
SNP_P4_149305_1456	NW_004516278.1	Scaffold934	1456	TT	GG	1946986893
SNP_P4_149306_2182	NW_004516278.1	Scaffold934	2182	CC	TT	1946986895
SNP_P4_149307_3331	NW_004516278.1	Scaffold934	3331	GG	AA	1946986897
SNP_P4_149308_3575	NW_004516278.1	Scaffold934	3575	TT	CC	1946986899
SNP_P4_149309_3652	NW_004516278.1	Scaffold934	3652	AA	TT	1946986901
SNP_P4_149310_25605	NW_004516279.1	Scaffold937	25605	GG	TT	1946986903
SNP_P4_149311_53421	NW_004516279.1	Scaffold937	53421	AA	GG	1946986905
SNP_P4_149312_58436	NW_004516279.1	Scaffold937	58436	CC	TT	1946986908
SNP_P4_149313_68401	NW_004516279.1	Scaffold937	68401	CC	TT	1946986910
SNP_P4_149314_79161	NW_004516279.1	Scaffold937	79161	CC	AA	1946986912
SNP_P4_149315_81235	NW_004516279.1	Scaffold937	81235	AA	GG	1946986914
SNP_P4_149317_142711	NW_004516279.1	Scaffold937	142711	GG	TT	1946986917
SNP_P4_149318_165361	NW_004516279.1	Scaffold937	165361	TT	GG	1946986919
SNP_P4_149319_165371	NW_004516279.1	Scaffold937	165371	TT	CC	1946986921
SNP_P4_149320_165414	NW_004516279.1	Scaffold937	165414	AA	GG	1946986923
SNP_P4_149321_166010	NW_004516279.1	Scaffold937	166010	GG	AA	1946986926
SNP_P4_149322_166022	NW_004516279.1	Scaffold937	166022	AA	GG	1946986928
SNP_P4_149323_166036	NW_004516279.1	Scaffold937	166036	AA	TT	1946986930
SNP_P4_149324_166181	NW_004516279.1	Scaffold937	166181	AA	GG	1946986932

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_149328_207041	NW_004516279.1	Scaffold937	207041	TT	CC	1946986937
SNP_P4_149329_207042	NW_004516279.1	Scaffold937	207042	TT	CC	1946986939
SNP_P4_149330_207142	NW_004516279.1	Scaffold937	207142	AA	GG	1946986941
SNP_P4_149331_207201	NW_004516279.1	Scaffold937	207201	GG	AA	1946986943
SNP_P4_149332_207207	NW_004516279.1	Scaffold937	207207	CC	TT	1946986945
SNP_P4_149333_207249	NW_004516279.1	Scaffold937	207249	GG	AA	1946986948
SNP_P4_149334_207264	NW_004516279.1	Scaffold937	207264	AA	CC	1946986951
SNP_P4_149335_207280	NW_004516279.1	Scaffold937	207280	CC	TT	1946986953
SNP_P4_149336_207307	NW_004516279.1	Scaffold937	207307	CC	TT	1946986955
SNP_P4_149337_207497	NW_004516279.1	Scaffold937	207497	GG	AA	1946986957
SNP_P4_149338_207507	NW_004516279.1	Scaffold937	207507	CC	TT	1946986959
SNP_P4_149339_207563	NW_004516279.1	Scaffold937	207563	CC	GG	1946986962
SNP_P4_149340_207817	NW_004516279.1	Scaffold937	207817	AA	CC	1946986964
SNP_P4_149341_207819	NW_004516279.1	Scaffold937	207819	CC	TT	1946986967
SNP_P4_149342_432	NW_004516281.1	Scaffold939	432	CC	TT	1946986969
SNP_P4_149343_458	NW_004516281.1	Scaffold939	458	CC	TT	1946986971
SNP_P4_149344_607	NW_004516281.1	Scaffold939	607	GG	TT	1946986973
SNP_P4_149345_655	NW_004516281.1	Scaffold939	655	GG	AA	1946986974
SNP_P4_149346_677	NW_004516281.1	Scaffold939	677	CC	TT	1946986976
SNP_P4_149347_699	NW_004516281.1	Scaffold939	699	GG	TT	1946986979
SNP_P4_149348_710	NW_004516281.1	Scaffold939	710	GG	TT	1946986981
SNP_P4_149349_934	NW_004516281.1	Scaffold939	934	TT	GG	1946986983
SNP_P4_149350_978	NW_004516281.1	Scaffold939	978	CC	TT	1946986984
SNP_P4_149353_1233	NW_004516281.1	Scaffold939	1233	AA	TT	1946986986
SNP_P4_149354_1290	NW_004516281.1	Scaffold939	1290	CC	TT	1946986988
SNP_P4_149355_1306	NW_004516281.1	Scaffold939	1306	AA	GG	1946986990
SNP_P4_149356_1313	NW_004516281.1	Scaffold939	1313	CC	TT	1946986992
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SNP_P4_149358_35523	NW_004516283.1	Scaffold943	35523	GG	TT	1946986996
SNP_P4_149359_36658	NW_004516283.1	Scaffold943	36658	CC	TT	1946986998
SNP_P4_149361_42834	NW_004516283.1	Scaffold943	42834	AA	TT	1946987000
SNP_P4_149362_42873	NW_004516283.1	Scaffold943	42873	GG	AA	1946987002
SNP_P4_149363_42904	NW_004516283.1	Scaffold943	42904	CC	AA	1946987004
SNP_P4_149364_42915	NW_004516283.1	Scaffold943	42915	AA	TT	1946987006
SNP_P4_149366_42920	NW_004516283.1	Scaffold943	42920	CC	AA	1946987008
SNP_P4_149367_42930	NW_004516283.1	Scaffold943	42930	AA	TT	1946987009
SNP_P4_149368_42938	NW_004516283.1	Scaffold943	42938	TT	AA	1946987010
SNP_P4_149369_43774	NW_004516283.1	Scaffold943	43774	GG	AA	1946987011
SNP_P4_149370_45185	NW_004516283.1	Scaffold943	45185	CC	AA	1946987012
SNP_P4_149372_119005	NW_004516283.1	Scaffold943	119005	AA	TT	1946987013
SNP_P4_149373_119011	NW_004516283.1	Scaffold943	119011	AA	GG	1946987014

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_149375_119594	NW_004516283.1	Scaffold943	119594	CC	GG	1946987017
SNP_P4_149376_119624	NW_004516283.1	Scaffold943	119624	AA	GG	1946987019
SNP_P4_149377_119783	NW_004516283.1	Scaffold943	119783	CC	TT	1946987021
SNP_P4_149378_119789	NW_004516283.1	Scaffold943	119789	AA	GG	1946987023
SNP_P4_149379_119843	NW_004516283.1	Scaffold943	119843	TT	AA	1946987025
SNP_P4_149380_125451	NW_004516283.1	Scaffold943	125451	GG	AA	1946987027
SNP_P4_149382_143728	NW_004516283.1	Scaffold943	143728	CC	TT	1946987029
SNP_P4_149383_144375	NW_004516283.1	Scaffold943	144375	AA	GG	1946987031
SNP_P4_149384_145154	NW_004516283.1	Scaffold943	145154	CC	AA	1946987033
SNP_P4_149385_162797	NW_004516283.1	Scaffold943	162797	TT	CC	1946987035
SNP_P4_149386_162835	NW_004516283.1	Scaffold943	162835	TT	CC	1946987037
SNP_P4_149387_162857	NW_004516283.1	Scaffold943	162857	AA	TT	1946987039
SNP_P4_149388_162861	NW_004516283.1	Scaffold943	162861	AA	GG	1946987041
SNP_P4_149389_163031	NW_004516283.1	Scaffold943	163031	CC	AA	1946987043
SNP_P4_149391_163472	NW_004516283.1	Scaffold943	163472	TT	CC	1946987045
SNP_P4_149392_163473	NW_004516283.1	Scaffold943	163473	TT	AA	1946987047
SNP_P4_149393_166210	NW_004516283.1	Scaffold943	166210	TT	CC	1946987049
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SNP_P4_149397_219002	NW_004516283.1	Scaffold943	219002	CC	TT	1946987055
SNP_P4_149398_219026	NW_004516283.1	Scaffold943	219026	AA	GG	1946987057
SNP_P4_149399_219038	NW_004516283.1	Scaffold943	219038	CC	TT	1946987061
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SNP_P4_149403_255362	NW_004516283.1	Scaffold943	255362	GG	TT	1946987069
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SNP_P4_149405_264121	NW_004516283.1	Scaffold943	264121	GG	AA	1946987073
SNP_P4_149406_266673	NW_004516283.1	Scaffold943	266673	GG	TT	1946987075
SNP_P4_149407_266964	NW_004516283.1	Scaffold943	266964	TT	CC	1946987078
SNP_P4_149409_267676	NW_004516283.1	Scaffold943	267676	TT	CC	1946987080
SNP_P4_149410_267728	NW_004516283.1	Scaffold943	267728	GG	CC	1946987082
SNP_P4_149411_118	NW_004516284.1	Scaffold944	118	AA	GG	1946987084
SNP_P4_149412_226	NW_004516284.1	Scaffold944	226	GG	AA	1946987086
SNP_P4_149413_296	NW_004516284.1	Scaffold944	296	GG	AA	1946987088
SNP_P4_149414_521	NW_004516284.1	Scaffold944	521	GG	AA	1946987089
SNP_P4_149415_528	NW_004516284.1	Scaffold944	528	TT	CC	1946987091
SNP_P4_149416_610	NW_004516284.1	Scaffold944	610	AA	GG	1946987093
SNP_P4_149418_703	NW_004516284.1	Scaffold944	703	CC	AA	1946987095
SNP_P4_149419_752	NW_004516284.1	Scaffold944	752	CC	GG	1946987098
SNP_P4_149420_803	NW_004516284.1	Scaffold944	803	GG	AA	1946987100

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_149423_1724	NW_004516284.1	Scaffold944	1724	TT	CC	1946987106
SNP_P4_149424_1725	NW_004516284.1	Scaffold944	1725	GG	TT	1946987108
SNP_P4_149425_1733	NW_004516284.1	Scaffold944	1733	AA	GG	1946987110
SNP_P4_149426_1849	NW_004516284.1	Scaffold944	1849	AA	GG	1946987112
SNP_P4_149427_2104	NW_004516284.1	Scaffold944	2104	CC	GG	1946987114
SNP_P4_149428_2352	NW_004516284.1	Scaffold944	2352	TT	AA	1946987116
SNP_P4_149430_2442	NW_004516284.1	Scaffold944	2442	AA	GG	1946987118
SNP_P4_149432_2587	NW_004516284.1	Scaffold944	2587	CC	TT	1946987121
SNP_P4_149433_2732	NW_004516284.1	Scaffold944	2732	AA	TT	1946987123
SNP_P4_149434_2803	NW_004516284.1	Scaffold944	2803	TT	CC	1946987125
SNP_P4_149435_2868	NW_004516284.1	Scaffold944	2868	GG	CC	1946987127
SNP_P4_149438_3330	NW_004516284.1	Scaffold944	3330	GG	AA	1946987129
SNP_P4_149440_3358	NW_004516284.1	Scaffold944	3358	TT	CC	1946987131
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SNP_P4_149445_2539	NW_004516285.1	Scaffold945	2539	AA	GG	1946987141
SNP_P4_149446_2549	NW_004516285.1	Scaffold945	2549	CC	TT	1946987143
SNP_P4_149447_2556	NW_004516285.1	Scaffold945	2556	CC	AA	1946987146
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SNP_P4_149449_80	NW_004516287.1	Scaffold948	80	CC	AA	1946987150
SNP_P4_149450_94	NW_004516287.1	Scaffold948	94	AA	GG	1946987152
SNP_P4_149451_120	NW_004516287.1	Scaffold948	120	AA	GG	1946987154
SNP_P4_149452_182	NW_004516287.1	Scaffold948	182	AA	CC	1946987156
SNP_P4_149453_295	NW_004516287.1	Scaffold948	295	AA	CC	1946987158
SNP_P4_149454_329	NW_004516287.1	Scaffold948	329	CC	TT	1946987160
SNP_P4_149455_429	NW_004516287.1	Scaffold948	429	CC	AA	1946987162
SNP_P4_149456_504	NW_004516287.1	Scaffold948	504	GG	AA	1946987164
SNP_P4_149457_506	NW_004516287.1	Scaffold948	506	CC	AA	1946987166
SNP_P4_149458_533	NW_004516287.1	Scaffold948	533	TT	CC	1946987168
SNP_P4_149459_576	NW_004516287.1	Scaffold948	576	CC	AA	1946987170
SNP_P4_149460_593	NW_004516287.1	Scaffold948	593	CC	AA	1946987172
SNP_P4_149461_748	NW_004516287.1	Scaffold948	748	TT	CC	1946987173
SNP_P4_149462_750	NW_004516287.1	Scaffold948	750	GG	CC	1946987175
SNP_P4_149463_757	NW_004516287.1	Scaffold948	757	CC	TT	1946987177
SNP_P4_149464_763	NW_004516287.1	Scaffold948	763	AA	TT	1946987179
SNP_P4_149465_809	NW_004516287.1	Scaffold948	809	GG	AA	1946987181
SNP_P4_149466_892	NW_004516287.1	Scaffold948	892	CC	AA	1946987183
SNP_P4_149467_988	NW_004516287.1	Scaffold948	988	GG	TT	1946987185

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_149469_1239	NW_004516287.1	Scaffold948	1239	TT	AA	1946987189
SNP_P4_149470_1473	NW_004516287.1	Scaffold948	1473	GG	AA	1946987191
SNP_P4_149471_1493	NW_004516287.1	Scaffold948	1493	GG	AA	1946987192
SNP_P4_149472_1652	NW_004516287.1	Scaffold948	1652	CC	GG	1946987194
SNP_P4_149473_1772	NW_004516287.1	Scaffold948	1772	CC	AA	1946987196
SNP_P4_149474_1786	NW_004516287.1	Scaffold948	1786	AA	GG	1946987198
SNP_P4_149475_1821	NW_004516287.1	Scaffold948	1821	TT	GG	1946987200
SNP_P4_149476_24470	NW_004516287.1	Scaffold948	24470	AA	GG	1946987202
SNP_P4_149477_24479	NW_004516287.1	Scaffold948	24479	CC	TT	1946987204
SNP_P4_149478_24861	NW_004516287.1	Scaffold948	24861	AA	GG	1946987206
SNP_P4_149479_30602	NW_004516287.1	Scaffold948	30602	GG	AA	1946987208
SNP_P4_149480_30684	NW_004516287.1	Scaffold948	30684	GG	AA	1946987210
SNP_P4_149481_36354	NW_004516287.1	Scaffold948	36354	CC	TT	1946987212
SNP_P4_149482_52358	NW_004516287.1	Scaffold948	52358	AA	GG	1946987214
SNP_P4_149483_52474	NW_004516287.1	Scaffold948	52474	TT	CC	1946987216
SNP_P4_149484_52520	NW_004516287.1	Scaffold948	52520	GG	AA	1946987218
SNP_P4_149485_52522	NW_004516287.1	Scaffold948	52522	GG	AA	1946987220
SNP_P4_149486_52531	NW_004516287.1	Scaffold948	52531	TT	AA	1946987222
SNP_P4_149487_52599	NW_004516287.1	Scaffold948	52599	AA	GG	1946987225
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SNP_P4_149489_52981	NW_004516287.1	Scaffold948	52981	GG	AA	1946987229
SNP_P4_149490_67115	NW_004516287.1	Scaffold948	67115	GG	AA	1946987231
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SNP_P4_149494_131449	NW_004516287.1	Scaffold948	131449	TT	AA	1946987235
SNP_P4_149495_138452	NW_004516287.1	Scaffold948	138452	GG	AA	1946987237
SNP_P4_149496_144190	NW_004516287.1	Scaffold948	144190	CC	TT	1946987239
SNP_P4_149497_148163	NW_004516287.1	Scaffold948	148163	CC	TT	1946987241
SNP_P4_149498_148334	NW_004516287.1	Scaffold948	148334	CC	TT	1946987243
SNP_P4_149499_148351	NW_004516287.1	Scaffold948	148351	CC	TT	1946987246
SNP_P4_149500_148364	NW_004516287.1	Scaffold948	148364	CC	TT	1946987248
SNP_P4_149501_148368	NW_004516287.1	Scaffold948	148368	AA	GG	1946987250
SNP_P4_149502_148398	NW_004516287.1	Scaffold948	148398	GG	AA	1946987251
SNP_P4_149503_148435	NW_004516287.1	Scaffold948	148435	GG	CC	1946987252
SNP_P4_149504_149214	NW_004516287.1	Scaffold948	149214	GG	AA	1946987253
SNP_P4_149505_157851	NW_004516287.1	Scaffold948	157851	AA	TT	1946987254
SNP_P4_149508_180079	NW_004516287.1	Scaffold948	180079	CC	TT	1946987256
SNP_P4_149509_180093	NW_004516287.1	Scaffold948	180093	CC	GG	1946987259
SNP_P4_149510_180113	NW_004516287.1	Scaffold948	180113	TT	GG	1946987261
SNP_P4_149511_180482	NW_004516287.1	Scaffold948	180482	TT	CC	1946987263
SNP_P4_149512_186815	NW_004516287.1	Scaffold948	186815	TT	CC	1946987265
SNP_P4_149513_189423	NW_004516287.1	Scaffold948	189423	TT	CC	1946987267

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_149515_189455	NW_004516287.1	Scaffold948	189455	AA	GG	1946987271
SNP_P4_149516_189459	NW_004516287.1	Scaffold948	189459	TT	GG	1946987273
SNP_P4_149517_3625	NW_004516288.1	Scaffold949	3625	GG	AA	1946987275
SNP_P4_149519_3850	NW_004516288.1	Scaffold949	3850	TT	CC	1946987277
SNP_P4_149520_3934	NW_004516288.1	Scaffold949	3934	CC	TT	1946987279
SNP_P4_149521_3950	NW_004516288.1	Scaffold949	3950	AA	TT	1946987281
SNP_P4_149522_3983	NW_004516288.1	Scaffold949	3983	AA	TT	1946987283
SNP_P4_149523_4041	NW_004516288.1	Scaffold949	4041	CC	TT	1946987285
SNP_P4_149524_4043	NW_004516288.1	Scaffold949	4043	AA	GG	1946987287
SNP_P4_149525_4098	NW_004516288.1	Scaffold949	4098	CC	TT	1946987289
SNP_P4_149526_11929	NW_004516288.1	Scaffold949	11929	TT	AA	1946987291
SNP_P4_149527_12271	NW_004516288.1	Scaffold949	12271	GG	AA	1946987293
SNP_P4_149528_12284	NW_004516288.1	Scaffold949	12284	GG	AA	1946987295
SNP_P4_149529_12285	NW_004516288.1	Scaffold949	12285	GG	AA	1946987297
SNP_P4_149530_12299	NW_004516288.1	Scaffold949	12299	GG	AA	1946987299
SNP_P4_149531_12304	NW_004516288.1	Scaffold949	12304	AA	GG	1946987301
SNP_P4_149532_12321	NW_004516288.1	Scaffold949	12321	CC	GG	1946987303
SNP_P4_149533_12344	NW_004516288.1	Scaffold949	12344	GG	CC	1946987305
SNP_P4_149536_21249	NW_004516288.1	Scaffold949	21249	AA	GG	1946987307
SNP_P4_149537_21252	NW_004516288.1	Scaffold949	21252	TT	GG	1946987309
SNP_P4_149538_21253	NW_004516288.1	Scaffold949	21253	CC	TT	1946987311
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SNP_P4_149540_21270	NW_004516288.1	Scaffold949	21270	GG	TT	1946987315
SNP_P4_149541_21272	NW_004516288.1	Scaffold949	21272	AA	CC	1946987317
SNP_P4_149542_21274	NW_004516288.1	Scaffold949	21274	AA	GG	1946987319
SNP_P4_149543_21278	NW_004516288.1	Scaffold949	21278	AA	TT	1946987321
SNP_P4_149544_26228	NW_004516288.1	Scaffold949	26228	GG	AA	1946987322
SNP_P4_149545_26293	NW_004516288.1	Scaffold949	26293	CC	TT	1946987324
SNP_P4_149546_26295	NW_004516288.1	Scaffold949	26295	CC	TT	1946987326
SNP_P4_149547_26299	NW_004516288.1	Scaffold949	26299	CC	TT	1946987328
SNP_P4_149548_26403	NW_004516288.1	Scaffold949	26403	TT	CC	1946987330
SNP_P4_149549_26457	NW_004516288.1	Scaffold949	26457	GG	TT	1946987332
SNP_P4_149550_26479	NW_004516288.1	Scaffold949	26479	AA	CC	1946987334
SNP_P4_149551_26485	NW_004516288.1	Scaffold949	26485	TT	CC	1946987336
SNP_P4_149552_26495	NW_004516288.1	Scaffold949	26495	CC	AA	1946987338
SNP_P4_149553_26501	NW_004516288.1	Scaffold949	26501	GG	CC	1946987340
SNP_P4_149554_26528	NW_004516288.1	Scaffold949	26528	TT	AA	1946987342
SNP_P4_149555_26529	NW_004516288.1	Scaffold949	26529	GG	TT	1946987344
SNP_P4_149557_26696	NW_004516288.1	Scaffold949	26696	GG	CC	1946987346
SNP_P4_149558_26718	NW_004516288.1	Scaffold949	26718	CC	GG	1946987348
SNP_P4_149559_26728	NW_004516288.1	Scaffold949	26728	GG	AA	1946987350

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_149561_29436	NW_004516288.1	Scaffold949	29436	AA	TT	1946987355
SNP_P4_149562_29458	NW_004516288.1	Scaffold949	29458	AA	GG	1946987357
SNP_P4_149563_29495	NW_004516288.1	Scaffold949	29495	CC	TT	1946987359
SNP_P4_149564_33456	NW_004516288.1	Scaffold949	33456	TT	CC	1946987361
SNP_P4_149565_33500	NW_004516288.1	Scaffold949	33500	AA	GG	1946987363
SNP_P4_149566_33522	NW_004516288.1	Scaffold949	33522	GG	AA	1946987365
SNP_P4_149567_56440	NW_004516288.1	Scaffold949	56440	AA	TT	1946987367
SNP_P4_149568_56456	NW_004516288.1	Scaffold949	56456	TT	AA	1946987369
SNP_P4_149569_56462	NW_004516288.1	Scaffold949	56462	TT	AA	1946987371
SNP_P4_149570_70023	NW_004516288.1	Scaffold949	70023	CC	TT	1946987374
SNP_P4_149571_72153	NW_004516288.1	Scaffold949	72153	AA	CC	1946987376
SNP_P4_149572_77620	NW_004516288.1	Scaffold949	77620	GG	CC	1946987378
SNP_P4_149573_87070	NW_004516288.1	Scaffold949	87070	AA	CC	1946987380
SNP_P4_149574_87080	NW_004516288.1	Scaffold949	87080	CC	TT	1946987382
SNP_P4_149575_87163	NW_004516288.1	Scaffold949	87163	AA	CC	1946987384
SNP_P4_149576_88059	NW_004516288.1	Scaffold949	88059	TT	CC	1946987386
SNP_P4_149577_88339	NW_004516288.1	Scaffold949	88339	TT	GG	1946987388
SNP_P4_149578_88374	NW_004516288.1	Scaffold949	88374	GG	TT	1946987391
SNP_P4_149579_88394	NW_004516288.1	Scaffold949	88394	GG	AA	1946987394
SNP_P4_149580_96094	NW_004516288.1	Scaffold949	96094	TT	GG	1946987396
SNP_P4_149581_96331	NW_004516288.1	Scaffold949	96331	GG	CC	1946987398
SNP_P4_149582_101914	NW_004516288.1	Scaffold949	101914	CC	GG	1946987400
SNP_P4_149583_102108	NW_004516288.1	Scaffold949	102108	TT	CC	1946987402
SNP_P4_149584_102116	NW_004516288.1	Scaffold949	102116	TT	GG	1946987405
SNP_P4_149585_102126	NW_004516288.1	Scaffold949	102126	GG	TT	1946987407
SNP_P4_149586_102127	NW_004516288.1	Scaffold949	102127	TT	CC	1946987409
SNP_P4_149587_102148	NW_004516288.1	Scaffold949	102148	CC	TT	1946987411
SNP_P4_149588_102185	NW_004516288.1	Scaffold949	102185	AA	TT	1946987414
SNP_P4_149589_102195	NW_004516288.1	Scaffold949	102195	AA	GG	1946987416
SNP_P4_149590_103608	NW_004516288.1	Scaffold949	103608	TT	AA	1946987418
SNP_P4_149591_103646	NW_004516288.1	Scaffold949	103646	AA	TT	1946987420
SNP_P4_149592_103659	NW_004516288.1	Scaffold949	103659	CC	GG	1946987422
SNP_P4_149593_103829	NW_004516288.1	Scaffold949	103829	CC	AA	1946987424
SNP_P4_149594_103830	NW_004516288.1	Scaffold949	103830	CC	TT	1946987426
SNP_P4_149595_103851	NW_004516288.1	Scaffold949	103851	CC	AA	1946987428
SNP_P4_149596_103875	NW_004516288.1	Scaffold949	103875	TT	GG	1946987430
SNP_P4_149597_103977	NW_004516288.1	Scaffold949	103977	TT	AA	1946987432
SNP_P4_149598_104095	NW_004516288.1	Scaffold949	104095	CC	TT	1946987434
SNP_P4_149599_104196	NW_004516288.1	Scaffold949	104196	GG	TT	1946987436
SNP_P4_149600_104362	NW_004516288.1	Scaffold949	104362	TT	AA	1946987438
SNP_P4_149601_104479	NW_004516288.1	Scaffold949	104479	CC	GG	1946987440

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_149603_104491	NW_004516288.1	Scaffold949	104491	TT	CC	1946987444
SNP_P4_149604_104519	NW_004516288.1	Scaffold949	104519	GG	AA	1946987446
SNP_P4_149605_104526	NW_004516288.1	Scaffold949	104526	CC	GG	1946987448
SNP_P4_149606_105373	NW_004516288.1	Scaffold949	105373	AA	TT	1946987450
SNP_P4_149607_105411	NW_004516288.1	Scaffold949	105411	AA	CC	1946987452
SNP_P4_149608_105415	NW_004516288.1	Scaffold949	105415	TT	AA	1946987454
SNP_P4_149609_105449	NW_004516288.1	Scaffold949	105449	CC	TT	1946987456
SNP_P4_149610_105514	NW_004516288.1	Scaffold949	105514	GG	TT	1946987458
SNP_P4_149611_105878	NW_004516288.1	Scaffold949	105878	CC	TT	1946987460
SNP_P4_149612_105959	NW_004516288.1	Scaffold949	105959	AA	GG	1946987462
SNP_P4_149613_111912	NW_004516288.1	Scaffold949	111912	CC	AA	1946987464
SNP_P4_149614_112368	NW_004516288.1	Scaffold949	112368	TT	AA	1946987466
SNP_P4_149615_112720	NW_004516288.1	Scaffold949	112720	AA	GG	1946987468
SNP_P4_149616_114098	NW_004516288.1	Scaffold949	114098	AA	GG	1946987470
SNP_P4_149617_114157	NW_004516288.1	Scaffold949	114157	TT	GG	1946987472
SNP_P4_149618_114486	NW_004516288.1	Scaffold949	114486	TT	AA	1946987474
SNP_P4_149619_128498	NW_004516288.1	Scaffold949	128498	AA	CC	1946987476
SNP_P4_149620_142499	NW_004516288.1	Scaffold949	142499	AA	CC	1946987478
SNP_P4_149621_142535	NW_004516288.1	Scaffold949	142535	GG	AA	1946987480
SNP_P4_149622_142546	NW_004516288.1	Scaffold949	142546	GG	AA	1946987482
SNP_P4_149623_142559	NW_004516288.1	Scaffold949	142559	CC	TT	1946987484
SNP_P4_149624_142562	NW_004516288.1	Scaffold949	142562	CC	TT	1946987486
SNP_P4_149625_142581	NW_004516288.1	Scaffold949	142581	AA	TT	1946987488
SNP_P4_149626_142616	NW_004516288.1	Scaffold949	142616	TT	CC	1946987490
SNP_P4_149627_635	NW_004516289.1	Scaffold950	635	GG	AA	1946987492
SNP_P4_149628_727	NW_004516289.1	Scaffold950	727	TT	AA	1946987494
SNP_P4_149629_868	NW_004516289.1	Scaffold950	868	TT	GG	1946987496
SNP_P4_149630_1335	NW_004516289.1	Scaffold950	1335	AA	TT	1946987498
SNP_P4_149631_1394	NW_004516289.1	Scaffold950	1394	TT	GG	1946987500
SNP_P4_149632_1517	NW_004516289.1	Scaffold950	1517	CC	GG	1946987502
SNP_P4_149633_1545	NW_004516289.1	Scaffold950	1545	AA	GG	1946987505
SNP_P4_149634_1546	NW_004516289.1	Scaffold950	1546	GG	TT	1946987507
SNP_P4_149635_1713	NW_004516289.1	Scaffold950	1713	GG	CC	1946987509
SNP_P4_149636_1733	NW_004516289.1	Scaffold950	1733	CC	GG	1946987511
SNP_P4_149637_1735	NW_004516289.1	Scaffold950	1735	AA	TT	1946987513
SNP_P4_149638_1779	NW_004516289.1	Scaffold950	1779	AA	TT	1946987515
SNP_P4_149639_1845	NW_004516289.1	Scaffold950	1845	AA	GG	1946987517
SNP_P4_149640_1923	NW_004516289.1	Scaffold950	1923	AA	GG	1946987519
SNP_P4_149641_2093	NW_004516289.1	Scaffold950	2093	GG	AA	1946987521
SNP_P4_149642_2154	NW_004516289.1	Scaffold950	2154	CC	GG	1946987524
SNP_P4_149643_2203	NW_004516289.1	Scaffold950	2203	CC	GG	1946987526

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_149645_2252	NW_004516289.1	Scaffold950	2252	AA	TT	1946987530
SNP_P4_149646_2323	NW_004516289.1	Scaffold950	2323	AA	GG	1946987532
SNP_P4_149647_2335	NW_004516289.1	Scaffold950	2335	AA	GG	1946987534
SNP_P4_149648_2355	NW_004516289.1	Scaffold950	2355	AA	CC	1946987537
SNP_P4_149649_2373	NW_004516289.1	Scaffold950	2373	AA	GG	1946987539
SNP_P4_149650_2411	NW_004516289.1	Scaffold950	2411	TT	CC	1946987541
SNP_P4_149651_2476	NW_004516289.1	Scaffold950	2476	CC	TT	1946987543
SNP_P4_149652_2478	NW_004516289.1	Scaffold950	2478	CC	AA	1946987545
SNP_P4_149653_2500	NW_004516289.1	Scaffold950	2500	AA	GG	1946987548
SNP_P4_149654_2829	NW_004516289.1	Scaffold950	2829	AA	GG	1946987550
SNP_P4_149655_3540	NW_004516289.1	Scaffold950	3540	GG	AA	1946987552
SNP_P4_149656_3569	NW_004516289.1	Scaffold950	3569	AA	GG	1946987554
SNP_P4_149657_3626	NW_004516289.1	Scaffold950	3626	CC	TT	1946987557
SNP_P4_149658_3632	NW_004516289.1	Scaffold950	3632	TT	GG	1946987559
SNP_P4_149659_3699	NW_004516289.1	Scaffold950	3699	GG	TT	1946987561
SNP_P4_149661_3798	NW_004516289.1	Scaffold950	3798	AA	GG	1946987563
SNP_P4_149662_3929	NW_004516289.1	Scaffold950	3929	AA	CC	1946987565
SNP_P4_149663_4008	NW_004516289.1	Scaffold950	4008	TT	CC	1946987567
SNP_P4_149664_4221	NW_004516289.1	Scaffold950	4221	GG	AA	1946987569
SNP_P4_149665_6230	NW_004516289.1	Scaffold950	6230	CC	GG	1946987571
SNP_P4_149666_6618	NW_004516289.1	Scaffold950	6618	AA	GG	1946987573
SNP_P4_149667_6807	NW_004516289.1	Scaffold950	6807	AA	GG	1946987575
SNP_P4_149668_17799	NW_004516289.1	Scaffold950	17799	GG	TT	1946987577
SNP_P4_149669_17904	NW_004516289.1	Scaffold950	17904	GG	AA	1946987579
SNP_P4_149670_17959	NW_004516289.1	Scaffold950	17959	GG	CC	1946987581
SNP_P4_149671_17977	NW_004516289.1	Scaffold950	17977	TT	CC	1946987583
SNP_P4_149672_18126	NW_004516289.1	Scaffold950	18126	CC	TT	1946987585
SNP_P4_149673_29328	NW_004516289.1	Scaffold950	29328	AA	CC	1946987587
SNP_P4_149674_32114	NW_004516289.1	Scaffold950	32114	CC	TT	1946987589
SNP_P4_149675_32117	NW_004516289.1	Scaffold950	32117	TT	AA	1946987591
SNP_P4_149676_32125	NW_004516289.1	Scaffold950	32125	AA	GG	1946987593
SNP_P4_149677_34656	NW_004516289.1	Scaffold950	34656	CC	TT	1946987595
SNP_P4_149678_36981	NW_004516289.1	Scaffold950	36981	GG	AA	1946987597
SNP_P4_149679_45499	NW_004516289.1	Scaffold950	45499	TT	AA	1946987599
SNP_P4_149680_45518	NW_004516289.1	Scaffold950	45518	TT	GG	1946987601
SNP_P4_149681_45565	NW_004516289.1	Scaffold950	45565	CC	TT	1946987603
SNP_P4_149682_18844	NW_004516290.1	Scaffold951	18844	AA	CC	1946987605
SNP_P4_149683_19254	NW_004516290.1	Scaffold951	19254	GG	TT	1946987607
SNP_P4_149684_19999	NW_004516290.1	Scaffold951	19999	CC	GG	1946987609
SNP_P4_149685_26146	NW_004516290.1	Scaffold951	26146	TT	AA	1946987611
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_149688_18494	NW_004516291.1	Scaffold952	18494	CC	AA	1946987618
SNP_P4_149689_18505	NW_004516291.1	Scaffold952	18505	GG	AA	1946987620
SNP_P4_149690_18617	NW_004516291.1	Scaffold952	18617	GG	CC	1946987622
SNP_P4_149691_18671	NW_004516291.1	Scaffold952	18671	CC	TT	1946987624
SNP_P4_149692_18722	NW_004516291.1	Scaffold952	18722	TT	CC	1946987626
SNP_P4_149693_18792	NW_004516291.1	Scaffold952	18792	TT	CC	1946987628
SNP_P4_149694_18839	NW_004516291.1	Scaffold952	18839	CC	TT	1946987630
SNP_P4_149695_18840	NW_004516291.1	Scaffold952	18840	TT	AA	1946987632
SNP_P4_149696_18899	NW_004516291.1	Scaffold952	18899	AA	TT	1946987634
SNP_P4_149697_19068	NW_004516291.1	Scaffold952	19068	CC	TT	1946987636
SNP_P4_149698_19398	NW_004516291.1	Scaffold952	19398	CC	TT	1946987638
SNP_P4_149699_20338	NW_004516291.1	Scaffold952	20338	GG	TT	1946987640
SNP_P4_149700_27120	NW_004516291.1	Scaffold952	27120	TT	CC	1946987642
SNP_P4_149701_27842	NW_004516291.1	Scaffold952	27842	CC	TT	1946987644
SNP_P4_149702_27843	NW_004516291.1	Scaffold952	27843	AA	TT	1946987646
SNP_P4_149703_27888	NW_004516291.1	Scaffold952	27888	AA	CC	1946987648
SNP_P4_149704_27889	NW_004516291.1	Scaffold952	27889	CC	AA	1946987650
SNP_P4_149705_27890	NW_004516291.1	Scaffold952	27890	AA	GG	1946987652
SNP_P4_149706_27891	NW_004516291.1	Scaffold952	27891	CC	TT	1946987654
SNP_P4_149707_27908	NW_004516291.1	Scaffold952	27908	CC	TT	1946987656
SNP_P4_149708_27915	NW_004516291.1	Scaffold952	27915	AA	GG	1946987658
SNP_P4_149709_27925	NW_004516291.1	Scaffold952	27925	GG	TT	1946987660
SNP_P4_149710_27926	NW_004516291.1	Scaffold952	27926	TT	CC	1946987662
SNP_P4_149711_27939	NW_004516291.1	Scaffold952	27939	CC	TT	1946987664
SNP_P4_149712_41822	NW_004516291.1	Scaffold952	41822	GG	AA	1946987666
SNP_P4_149713_42691	NW_004516291.1	Scaffold952	42691	GG	AA	1946987668
SNP_P4_149714_581	NW_004516292.1	Scaffold953	581	TT	CC	1946987670
SNP_P4_149715_609	NW_004516292.1	Scaffold953	609	TT	CC	1946987672
SNP_P4_149716_633	NW_004516292.1	Scaffold953	633	AA	CC	1946987674
SNP_P4_149717_987	NW_004516292.1	Scaffold953	987	TT	AA	1946987676
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SNP_P4_149719_6830	NW_004516292.1	Scaffold953	6830	GG	TT	1946987680
SNP_P4_149720_7364	NW_004516292.1	Scaffold953	7364	GG	CC	1946987682
SNP_P4_149722_7574	NW_004516292.1	Scaffold953	7574	CC	TT	1946987684
SNP_P4_149723_7721	NW_004516292.1	Scaffold953	7721	CC	TT	1946987686
SNP_P4_149724_11896	NW_004516292.1	Scaffold953	11896	GG	AA	1946987688
SNP_P4_149725_11976	NW_004516292.1	Scaffold953	11976	TT	AA	1946987690
SNP_P4_149726_13615	NW_004516292.1	Scaffold953	13615	GG	CC	1946987692
SNP_P4_149727_14485	NW_004516292.1	Scaffold953	14485	CC	TT	1946987695
SNP_P4_149728_15868	NW_004516292.1	Scaffold953	15868	GG	AA	1946987697
SNP_P4_149729_17445	NW_004516292.1	Scaffold953	17445	TT	AA	1946987699

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_149731_17889	NW_004516292.1	Scaffold953	17889	GG	AA	1946987703
SNP_P4_149732_19412	NW_004516292.1	Scaffold953	19412	CC	GG	1946987705
SNP_P4_149733_23253	NW_004516292.1	Scaffold953	23253	GG	AA	1946987707
SNP_P4_149734_25068	NW_004516292.1	Scaffold953	25068	AA	GG	1946987709
SNP_P4_149736_25204	NW_004516292.1	Scaffold953	25204	TT	CC	1946987711
SNP_P4_149737_25277	NW_004516292.1	Scaffold953	25277	TT	CC	1946987713
SNP_P4_149738_25285	NW_004516292.1	Scaffold953	25285	GG	CC	1946987715
SNP_P4_149739_25340	NW_004516292.1	Scaffold953	25340	CC	TT	1946987717
SNP_P4_149740_27826	NW_004516292.1	Scaffold953	27826	TT	AA	1946987719
SNP_P4_149741_29821	NW_004516292.1	Scaffold953	29821	TT	CC	1946987721
SNP_P4_149742_29838	NW_004516292.1	Scaffold953	29838	TT	GG	1946987723
SNP_P4_149743_29867	NW_004516292.1	Scaffold953	29867	GG	AA	1946987725
SNP_P4_149744_29917	NW_004516292.1	Scaffold953	29917	TT	GG	1946987727
SNP_P4_149745_29934	NW_004516292.1	Scaffold953	29934	TT	CC	1946987729
SNP_P4_149746_30104	NW_004516292.1	Scaffold953	30104	TT	GG	1946987731
SNP_P4_149747_30116	NW_004516292.1	Scaffold953	30116	TT	GG	1946987733
SNP_P4_149748_30125	NW_004516292.1	Scaffold953	30125	AA	GG	1946987736
SNP_P4_149749_30154	NW_004516292.1	Scaffold953	30154	CC	TT	1946987738
SNP_P4_149750_30156	NW_004516292.1	Scaffold953	30156	AA	GG	1946987740
SNP_P4_149751_30168	NW_004516292.1	Scaffold953	30168	AA	GG	1946987742
SNP_P4_149752_30180	NW_004516292.1	Scaffold953	30180	AA	GG	1946987744
SNP_P4_149753_30217	NW_004516292.1	Scaffold953	30217	AA	TT	1946987746
SNP_P4_149754_30218	NW_004516292.1	Scaffold953	30218	AA	GG	1946987748
SNP_P4_149755_30223	NW_004516292.1	Scaffold953	30223	TT	CC	1946987750
SNP_P4_149756_32187	NW_004516292.1	Scaffold953	32187	TT	CC	1946987752
SNP_P4_149757_33219	NW_004516292.1	Scaffold953	33219	CC	GG	1946987754
SNP_P4_149758_34026	NW_004516292.1	Scaffold953	34026	TT	AA	1946987756
SNP_P4_149759_36248	NW_004516292.1	Scaffold953	36248	TT	CC	1946987758
SNP_P4_149761_42226	NW_004516292.1	Scaffold953	42226	GG	TT	1946987760
SNP_P4_149763_44634	NW_004516292.1	Scaffold953	44634	TT	CC	1946987762
SNP_P4_149765_46207	NW_004516292.1	Scaffold953	46207	TT	CC	1946987764
SNP_P4_149766_46342	NW_004516292.1	Scaffold953	46342	AA	GG	1946987766
SNP_P4_149767_46723	NW_004516292.1	Scaffold953	46723	CC	TT	1946987768
SNP_P4_149768_49556	NW_004516292.1	Scaffold953	49556	GG	AA	1946987770
SNP_P4_149769_51046	NW_004516292.1	Scaffold953	51046	CC	TT	1946987772
SNP_P4_149770_51586	NW_004516292.1	Scaffold953	51586	GG	AA	1946987774
SNP_P4_149772_52513	NW_004516292.1	Scaffold953	52513	AA	GG	1946987776
SNP_P4_149773_53167	NW_004516292.1	Scaffold953	53167	CC	TT	1946987778
SNP_P4_149774_53530	NW_004516292.1	Scaffold953	53530	TT	CC	1946987780
SNP_P4_149775_60639	NW_004516292.1	Scaffold953	60639	GG	TT	1946987782
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_149783_81357	NW_004516292.1	Scaffold953	81357	AA	GG	1946987791
SNP_P4_149784_81485	NW_004516292.1	Scaffold953	81485	AA	GG	1946987793
SNP_P4_149787_86599	NW_004516292.1	Scaffold953	86599	TT	CC	1946987795
SNP_P4_149788_86890	NW_004516292.1	Scaffold953	86890	GG	TT	1946987797
SNP_P4_149789_89809	NW_004516292.1	Scaffold953	89809	GG	AA	1946987799
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SNP_P4_149791_93044	NW_004516292.1	Scaffold953	93044	GG	AA	1946987803
SNP_P4_149792_96989	NW_004516292.1	Scaffold953	96989	CC	AA	1946987805
SNP_P4_149793_97070	NW_004516292.1	Scaffold953	97070	AA	GG	1946987807
SNP_P4_149794_97659	NW_004516292.1	Scaffold953	97659	TT	CC	1946987809
SNP_P4_149795_97795	NW_004516292.1	Scaffold953	97795	TT	CC	1946987811
SNP_P4_149796_97889	NW_004516292.1	Scaffold953	97889	CC	TT	1946987813
SNP_P4_149797_105512	NW_004516292.1	Scaffold953	105512	CC	GG	1946987815
SNP_P4_149798_106046	NW_004516292.1	Scaffold953	106046	TT	GG	1946987817
SNP_P4_149799_106058	NW_004516292.1	Scaffold953	106058	CC	TT	1946987819
SNP_P4_149800_106079	NW_004516292.1	Scaffold953	106079	GG	AA	1946987821
SNP_P4_149801_109303	NW_004516292.1	Scaffold953	109303	AA	GG	1946987823
SNP_P4_149802_109553	NW_004516292.1	Scaffold953	109553	TT	GG	1946987825
SNP_P4_149803_111190	NW_004516292.1	Scaffold953	111190	AA	GG	1946987827
SNP_P4_149804_111461	NW_004516292.1	Scaffold953	111461	GG	CC	1946987829
SNP_P4_149805_111468	NW_004516292.1	Scaffold953	111468	AA	GG	1946987831
SNP_P4_149806_111582	NW_004516292.1	Scaffold953	111582	AA	GG	1946987833
SNP_P4_149807_113116	NW_004516292.1	Scaffold953	113116	TT	CC	1946987835
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SNP_P4_149812_123724	NW_004516292.1	Scaffold953	123724	GG	AA	1946987841
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SNP_P4_149816_127123	NW_004516292.1	Scaffold953	127123	CC	TT	1946987847
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SNP_P4_149818_134599	NW_004516292.1	Scaffold953	134599	TT	CC	1946987852
SNP_P4_149819_134601	NW_004516292.1	Scaffold953	134601	GG	AA	1946987854
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SNP_P4_149822_141114	NW_004516292.1	Scaffold953	141114	GG	AA	1946987860
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SNP_P4_149824_141613	NW_004516292.1	Scaffold953	141613	CC	TT	1946987864
SNP_P4_149827_141999	NW_004516292.1	Scaffold953	141999	TT	GG	1946987866
SNP_P4_149828_147309	NW_004516292.1	Scaffold953	147309	AA	GG	1946987868
SNP_P4_149829_153187	NW_004516292.1	Scaffold953	153187	AA	GG	1946987870

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_149831_153618	NW_004516292.1	Scaffold953	153618	GG	AA	1946987874
SNP_P4_149832_154243	NW_004516292.1	Scaffold953	154243	CC	TT	1946987876
SNP_P4_149833_154776	NW_004516292.1	Scaffold953	154776	TT	CC	1946987878
SNP_P4_149834_158248	NW_004516292.1	Scaffold953	158248	TT	AA	1946987880
SNP_P4_149835_158617	NW_004516292.1	Scaffold953	158617	CC	GG	1946987882
SNP_P4_149836_165072	NW_004516292.1	Scaffold953	165072	CC	TT	1946987884
SNP_P4_149837_165349	NW_004516292.1	Scaffold953	165349	AA	GG	1946987886
SNP_P4_149838_570	NW_004516293.1	Scaffold954	570	AA	CC	1946987888
SNP_P4_149839_640	NW_004516293.1	Scaffold954	640	TT	CC	1946987890
SNP_P4_149841_3370	NW_004516293.1	Scaffold954	3370	CC	AA	1946987892
SNP_P4_149842_3392	NW_004516293.1	Scaffold954	3392	TT	AA	1946987894
SNP_P4_149843_3399	NW_004516293.1	Scaffold954	3399	GG	TT	1946987896
SNP_P4_149844_3792	NW_004516293.1	Scaffold954	3792	GG	CC	1946987898
SNP_P4_149845_3793	NW_004516293.1	Scaffold954	3793	CC	AA	1946987900
SNP_P4_149846_3873	NW_004516293.1	Scaffold954	3873	TT	CC	1946987902
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SNP_P4_149848_4288	NW_004516293.1	Scaffold954	4288	GG	AA	1946987906
SNP_P4_149849_4301	NW_004516293.1	Scaffold954	4301	AA	TT	1946987908
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SNP_P4_149858_26959	NW_004516293.1	Scaffold954	26959	AA	CC	1946987924
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SNP_P4_149869_28689	NW_004516293.1	Scaffold954	28689	GG	AA	1946987947
SNP_P4_149870_28871	NW_004516293.1	Scaffold954	28871	AA	GG	1946987949
SNP_P4_149871_28916	NW_004516293.1	Scaffold954	28916	TT	CC	1946987951
SNP_P4_149872_28947	NW_004516293.1	Scaffold954	28947	TT	CC	1946987953
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_149876_30340	NW_004516293.1	Scaffold954	30340	CC	AA	1946987962
SNP_P4_149877_30413	NW_004516293.1	Scaffold954	30413	TT	CC	1946987964
SNP_P4_149878_30439	NW_004516293.1	Scaffold954	30439	AA	GG	1946987966
SNP_P4_149879_36027	NW_004516293.1	Scaffold954	36027	AA	GG	1946987968
SNP_P4_149880_36116	NW_004516293.1	Scaffold954	36116	AA	TT	1946987970
SNP_P4_149881_36284	NW_004516293.1	Scaffold954	36284	AA	GG	1946987972
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SNP_P4_149885_38028	NW_004516293.1	Scaffold954	38028	AA	TT	1946987981
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SNP_P4_149895_39279	NW_004516293.1	Scaffold954	39279	TT	GG	1946988000
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SNP_P4_149899_39443	NW_004516293.1	Scaffold954	39443	AA	GG	1946988006
SNP_P4_149900_39602	NW_004516293.1	Scaffold954	39602	AA	GG	1946988008
SNP_P4_149901_39606	NW_004516293.1	Scaffold954	39606	GG	AA	1946988010
SNP_P4_149902_40540	NW_004516293.1	Scaffold954	40540	CC	AA	1946988013
SNP_P4_149903_41381	NW_004516293.1	Scaffold954	41381	CC	TT	1946988015
SNP_P4_149904_41471	NW_004516293.1	Scaffold954	41471	TT	AA	1946988017
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SNP_P4_149907_45372	NW_004516293.1	Scaffold954	45372	AA	GG	1946988023
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SNP_P4_149909_415	NW_004516295.1	Scaffold956	415	GG	TT	1946988027
SNP_P4_149910_577	NW_004516295.1	Scaffold956	577	AA	GG	1946988029
SNP_P4_149911_667	NW_004516295.1	Scaffold956	667	GG	AA	1946988031
SNP_P4_149912_822	NW_004516295.1	Scaffold956	822	CC	TT	1946988033
SNP_P4_149913_2568	NW_004516295.1	Scaffold956	2568	GG	AA	1946988035
SNP_P4_149914_2893	NW_004516295.1	Scaffold956	2893	GG	TT	1946988037
SNP_P4_149915_2898	NW_004516295.1	Scaffold956	2898	TT	CC	1946988039
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_149917_3519	NW_004516295.1	Scaffold956	3519	AA	GG	1946988044
SNP_P4_149918_4278	NW_004516295.1	Scaffold956	4278	CC	TT	1946988046
SNP_P4_149919_4483	NW_004516295.1	Scaffold956	4483	TT	GG	1946988048
SNP_P4_149920_4503	NW_004516295.1	Scaffold956	4503	GG	CC	1946988050
SNP_P4_149921_4561	NW_004516295.1	Scaffold956	4561	CC	TT	1946988052
SNP_P4_149922_4652	NW_004516295.1	Scaffold956	4652	TT	AA	1946988054
SNP_P4_149923_5883	NW_004516295.1	Scaffold956	5883	AA	TT	1946988056
SNP_P4_149924_5966	NW_004516295.1	Scaffold956	5966	TT	AA	1946988058
SNP_P4_149926_6020	NW_004516295.1	Scaffold956	6020	CC	TT	1946988060
SNP_P4_149927_6027	NW_004516295.1	Scaffold956	6027	GG	CC	1946988062
SNP_P4_149928_6276	NW_004516295.1	Scaffold956	6276	TT	CC	1946988064
SNP_P4_149929_6314	NW_004516295.1	Scaffold956	6314	TT	AA	1946988066
SNP_P4_149930_6330	NW_004516295.1	Scaffold956	6330	AA	CC	1946988068
SNP_P4_149931_7384	NW_004516295.1	Scaffold956	7384	AA	CC	1946988070
SNP_P4_149932_9746	NW_004516295.1	Scaffold956	9746	TT	CC	1946988072
SNP_P4_149933_9762	NW_004516295.1	Scaffold956	9762	AA	GG	1946988074
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SNP_P4_149942_12600	NW_004516295.1	Scaffold956	12600	AA	CC	1946988092
SNP_P4_149943_12601	NW_004516295.1	Scaffold956	12601	TT	CC	1946988094
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SNP_P4_149945_12617	NW_004516295.1	Scaffold956	12617	CC	TT	1946988098
SNP_P4_149946_14078	NW_004516295.1	Scaffold956	14078	GG	AA	1946988100
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SNP_P4_149955_18730	NW_004516295.1	Scaffold956	18730	TT	CC	1946988119
SNP_P4_149956_18841	NW_004516295.1	Scaffold956	18841	GG	TT	1946988121
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SNP_P4_149958_19089	NW_004516295.1	Scaffold956	19089	AA	GG	1946988125
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_149964_3450	NW_004516297.1	Scaffold958	3450	GG	CC	1946988134
SNP_P4_149965_3544	NW_004516297.1	Scaffold958	3544	AA	GG	1946988136
SNP_P4_149967_3723	NW_004516297.1	Scaffold958	3723	GG	CC	1946988138
SNP_P4_149968_4249	NW_004516297.1	Scaffold958	4249	CC	TT	1946988140
SNP_P4_149969_12623	NW_004516297.1	Scaffold958	12623	AA	TT	1946988143
SNP_P4_149970_3963	NW_004516298.1	Scaffold959	3963	CC	AA	1946988145
SNP_P4_149971_7934	NW_004516298.1	Scaffold959	7934	CC	TT	1946988147
SNP_P4_149972_7948	NW_004516298.1	Scaffold959	7948	AA	CC	1946988149
SNP_P4_149973_8040	NW_004516298.1	Scaffold959	8040	TT	CC	1946988151
SNP_P4_149974_8089	NW_004516298.1	Scaffold959	8089	TT	AA	1946988153
SNP_P4_149975_8136	NW_004516298.1	Scaffold959	8136	AA	GG	1946988155
SNP_P4_149976_10538	NW_004516298.1	Scaffold959	10538	AA	GG	1946988157
SNP_P4_149977_10552	NW_004516298.1	Scaffold959	10552	CC	AA	1946988159
SNP_P4_149978_10568	NW_004516298.1	Scaffold959	10568	TT	CC	1946988161
SNP_P4_149979_10571	NW_004516298.1	Scaffold959	10571	AA	GG	1946988163
SNP_P4_149980_10580	NW_004516298.1	Scaffold959	10580	GG	AA	1946988165
SNP_P4_149981_10613	NW_004516298.1	Scaffold959	10613	CC	TT	1946988168
SNP_P4_149982_10644	NW_004516298.1	Scaffold959	10644	CC	TT	1946988170
SNP_P4_149983_10664	NW_004516298.1	Scaffold959	10664	AA	CC	1946988172
SNP_P4_149985_20448	NW_004516298.1	Scaffold959	20448	GG	AA	1946988174
SNP_P4_149986_20802	NW_004516298.1	Scaffold959	20802	TT	AA	1946988176
SNP_P4_149987_20836	NW_004516298.1	Scaffold959	20836	AA	CC	1946988178
SNP_P4_149988_20882	NW_004516298.1	Scaffold959	20882	TT	GG	1946988180
SNP_P4_149989_21182	NW_004516298.1	Scaffold959	21182	AA	CC	1946988182
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SNP_P4_149991_22090	NW_004516298.1	Scaffold959	22090	GG	AA	1946988186
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SNP_P4_149993_22108	NW_004516298.1	Scaffold959	22108	TT	CC	1946988190
SNP_P4_149994_22110	NW_004516298.1	Scaffold959	22110	GG	AA	1946988192
SNP_P4_149995_47608	NW_004516298.1	Scaffold959	47608	CC	TT	1946988194
SNP_P4_149996_53797	NW_004516298.1	Scaffold959	53797	AA	GG	1946988196
SNP_P4_149997_57214	NW_004516298.1	Scaffold959	57214	CC	TT	1946988198
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SNP_P4_150001_57788	NW_004516298.1	Scaffold959	57788	TT	AA	1946988204
SNP_P4_150002_57810	NW_004516298.1	Scaffold959	57810	GG	TT	1946988206
SNP_P4_150003_57813	NW_004516298.1	Scaffold959	57813	GG	AA	1946988208
SNP_P4_150004_57903	NW_004516298.1	Scaffold959	57903	AA	GG	1946988210
SNP_P4_150005_57928	NW_004516298.1	Scaffold959	57928	AA	GG	1946988212
SNP_P4_150006_58306	NW_004516298.1	Scaffold959	58306	AA	TT	1946988214

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_150008_4547	NW_004516299.1	Scaffold960	4547	AA	TT	1946988218
SNP_P4_150009_15471	NW_004516299.1	Scaffold960	15471	TT	CC	1946988220
SNP_P4_150010_15476	NW_004516299.1	Scaffold960	15476	CC	GG	1946988222
SNP_P4_150011_15577	NW_004516299.1	Scaffold960	15577	CC	TT	1946988224
SNP_P4_150012_15578	NW_004516299.1	Scaffold960	15578	GG	AA	1946988226
SNP_P4_150013_15579	NW_004516299.1	Scaffold960	15579	CC	TT	1946988228
SNP_P4_150014_15891	NW_004516299.1	Scaffold960	15891	AA	GG	1946988230
SNP_P4_150015_20309	NW_004516299.1	Scaffold960	20309	AA	CC	1946988232
SNP_P4_150016_20621	NW_004516299.1	Scaffold960	20621	CC	TT	1946988234
SNP_P4_150017_20802	NW_004516299.1	Scaffold960	20802	TT	CC	1946988236
SNP_P4_150018_31087	NW_004516299.1	Scaffold960	31087	AA	TT	1946988238
SNP_P4_150019_68109	NW_004516299.1	Scaffold960	68109	CC	TT	1946988240
SNP_P4_150020_68135	NW_004516299.1	Scaffold960	68135	TT	GG	1946988242
SNP_P4_150021_68298	NW_004516299.1	Scaffold960	68298	GG	CC	1946988244
SNP_P4_150022_68318	NW_004516299.1	Scaffold960	68318	AA	GG	1946988246
SNP_P4_150023_68344	NW_004516299.1	Scaffold960	68344	AA	GG	1946988248
SNP_P4_150024_68383	NW_004516299.1	Scaffold960	68383	AA	GG	1946988249
SNP_P4_150025_104242	NW_004516299.1	Scaffold960	104242	TT	GG	1946988250
SNP_P4_150026_107833	NW_004516299.1	Scaffold960	107833	CC	TT	1946988251
SNP_P4_150027_126413	NW_004516299.1	Scaffold960	126413	AA	GG	1946988252
SNP_P4_150028_126416	NW_004516299.1	Scaffold960	126416	GG	AA	1946988253
SNP_P4_150029_126438	NW_004516299.1	Scaffold960	126438	CC	TT	1946988255
SNP_P4_150030_126524	NW_004516299.1	Scaffold960	126524	AA	TT	1946988257
SNP_P4_150031_138957	NW_004516299.1	Scaffold960	138957	CC	TT	1946988259
SNP_P4_150032_139132	NW_004516299.1	Scaffold960	139132	CC	TT	1946988261
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SNP_P4_150034_139147	NW_004516299.1	Scaffold960	139147	TT	GG	1946988265
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SNP_P4_150037_159074	NW_004516299.1	Scaffold960	159074	TT	CC	1946988271
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SNP_P4_150040_162278	NW_004516299.1	Scaffold960	162278	GG	AA	1946988277
SNP_P4_150041_162285	NW_004516299.1	Scaffold960	162285	TT	CC	1946988279
SNP_P4_150042_162292	NW_004516299.1	Scaffold960	162292	TT	AA	1946988281
SNP_P4_150043_162310	NW_004516299.1	Scaffold960	162310	CC	AA	1946988283
SNP_P4_150044_162321	NW_004516299.1	Scaffold960	162321	TT	CC	1946988285
SNP_P4_150045_163192	NW_004516299.1	Scaffold960	163192	TT	CC	1946988288
SNP_P4_150046_163198	NW_004516299.1	Scaffold960	163198	AA	TT	1946988290
SNP_P4_150047_163199	NW_004516299.1	Scaffold960	163199	TT	CC	1946988292
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_150052_6539	NW_004516300.1	Scaffold962	6539	GG	AA	1946988303
SNP_P4_150053_6556	NW_004516300.1	Scaffold962	6556	TT	GG	1946988305
SNP_P4_150054_6683	NW_004516300.1	Scaffold962	6683	TT	GG	1946988307
SNP_P4_150055_10596	NW_004516300.1	Scaffold962	10596	AA	TT	1946988310
SNP_P4_150056_10965	NW_004516300.1	Scaffold962	10965	TT	CC	1946988312
SNP_P4_150057_10995	NW_004516300.1	Scaffold962	10995	CC	AA	1946988315
SNP_P4_150058_13429	NW_004516300.1	Scaffold962	13429	TT	CC	1946988317
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SNP_P4_150060_16623	NW_004516300.1	Scaffold962	16623	GG	AA	1946988321
SNP_P4_150061_16954	NW_004516300.1	Scaffold962	16954	TT	CC	1946988323
SNP_P4_150063_52571	NW_004516300.1	Scaffold962	52571	GG	AA	1946988325
SNP_P4_150064_52578	NW_004516300.1	Scaffold962	52578	AA	TT	1946988327
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SNP_P4_150083_152461	NW_004516300.1	Scaffold962	152461	AA	GG	1946988368
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_150094_164204	NW_004516300.1	Scaffold962	164204	TT	GG	1946988391
SNP_P4_150095_164532	NW_004516300.1	Scaffold962	164532	GG	AA	1946988393
SNP_P4_150097_195805	NW_004516300.1	Scaffold962	195805	TT	CC	1946988395
SNP_P4_150099_225347	NW_004516300.1	Scaffold962	225347	TT	CC	1946988398
SNP_P4_150101_231850	NW_004516300.1	Scaffold962	231850	CC	TT	1946988400
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SNP_P4_150103_463	NW_004516301.1	Scaffold963	463	GG	CC	1946988404
SNP_P4_150104_487	NW_004516301.1	Scaffold963	487	TT	CC	1946988406
SNP_P4_150105_3741	NW_004516301.1	Scaffold963	3741	TT	GG	1946988408
SNP_P4_150106_3878	NW_004516301.1	Scaffold963	3878	GG	AA	1946988411
SNP_P4_150107_4183	NW_004516301.1	Scaffold963	4183	GG	AA	1946988413
SNP_P4_150108_4185	NW_004516301.1	Scaffold963	4185	GG	TT	1946988415
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SNP_P4_150115_5290	NW_004516301.1	Scaffold963	5290	AA	CC	1946988427
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SNP_P4_150118_5337	NW_004516301.1	Scaffold963	5337	TT	CC	1946988434
SNP_P4_150119_5344	NW_004516301.1	Scaffold963	5344	TT	CC	1946988436
SNP_P4_150120_5350	NW_004516301.1	Scaffold963	5350	AA	GG	1946988438
SNP_P4_150121_5389	NW_004516301.1	Scaffold963	5389	AA	GG	1946988440
SNP_P4_150122_5401	NW_004516301.1	Scaffold963	5401	GG	CC	1946988442
SNP_P4_150123_5414	NW_004516301.1	Scaffold963	5414	AA	GG	1946988444
SNP_P4_150124_5444	NW_004516301.1	Scaffold963	5444	TT	GG	1946988446
SNP_P4_150125_5446	NW_004516301.1	Scaffold963	5446	TT	AA	1946988448
SNP_P4_150126_5475	NW_004516301.1	Scaffold963	5475	AA	GG	1946988450
SNP_P4_150127_5478	NW_004516301.1	Scaffold963	5478	AA	GG	1946988452
SNP_P4_150128_5836	NW_004516301.1	Scaffold963	5836	TT	CC	1946988455
SNP_P4_150129_5904	NW_004516301.1	Scaffold963	5904	AA	CC	1946988457
SNP_P4_150130_5958	NW_004516301.1	Scaffold963	5958	GG	AA	1946988459
SNP_P4_150131_5997	NW_004516301.1	Scaffold963	5997	CC	TT	1946988461
SNP_P4_150132_6084	NW_004516301.1	Scaffold963	6084	TT	CC	1946988463
SNP_P4_150134_6130	NW_004516301.1	Scaffold963	6130	GG	AA	1946988465
SNP_P4_150135_6282	NW_004516301.1	Scaffold963	6282	AA	TT	1946988467
SNP_P4_150136_6294	NW_004516301.1	Scaffold963	6294	TT	CC	1946988469
SNP_P4_150137_6320	NW_004516301.1	Scaffold963	6320	AA	GG	1946988471
SNP_P4_150138_6364	NW_004516301.1	Scaffold963	6364	GG	AA	1946988473

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_150140_6458	NW_004516301.1	Scaffold963	6458	CC	TT	1946988477
SNP_P4_150141_6496	NW_004516301.1	Scaffold963	6496	GG	CC	1946988479
SNP_P4_150142_6561	NW_004516301.1	Scaffold963	6561	TT	AA	1946988481
SNP_P4_150143_6745	NW_004516301.1	Scaffold963	6745	AA	GG	1946988483
SNP_P4_150144_6785	NW_004516301.1	Scaffold963	6785	TT	CC	1946988485
SNP_P4_150145_6794	NW_004516301.1	Scaffold963	6794	AA	TT	1946988487
SNP_P4_150146_7043	NW_004516301.1	Scaffold963	7043	TT	CC	1946988489
SNP_P4_150147_7216	NW_004516301.1	Scaffold963	7216	AA	GG	1946988491
SNP_P4_150148_7265	NW_004516301.1	Scaffold963	7265	TT	CC	1946988493
SNP_P4_150149_7334	NW_004516301.1	Scaffold963	7334	GG	AA	1946988495
SNP_P4_150150_10704	NW_004516301.1	Scaffold963	10704	TT	CC	1946988497
SNP_P4_150151_17126	NW_004516301.1	Scaffold963	17126	GG	TT	1946988499
SNP_P4_150152_17266	NW_004516301.1	Scaffold963	17266	GG	TT	1946988501
SNP_P4_150153_17292	NW_004516301.1	Scaffold963	17292	AA	TT	1946988503
SNP_P4_150155_41705	NW_004516301.1	Scaffold963	41705	GG	TT	1946988505
SNP_P4_150156_51518	NW_004516301.1	Scaffold963	51518	TT	GG	1946988507
SNP_P4_150157_61914	NW_004516301.1	Scaffold963	61914	TT	AA	1946988509
SNP_P4_150158_62268	NW_004516301.1	Scaffold963	62268	AA	TT	1946988511
SNP_P4_150159_62381	NW_004516301.1	Scaffold963	62381	GG	AA	1946988513
SNP_P4_150160_87301	NW_004516301.1	Scaffold963	87301	GG	TT	1946988515
SNP_P4_150161_89620	NW_004516301.1	Scaffold963	89620	TT	GG	1946988517
SNP_P4_150162_89645	NW_004516301.1	Scaffold963	89645	CC	GG	1946988519
SNP_P4_150163_89755	NW_004516301.1	Scaffold963	89755	TT	CC	1946988521
SNP_P4_150164_89760	NW_004516301.1	Scaffold963	89760	AA	CC	1946988523
SNP_P4_150165_89928	NW_004516301.1	Scaffold963	89928	AA	GG	1946988525
SNP_P4_150166_90012	NW_004516301.1	Scaffold963	90012	TT	CC	1946988527
SNP_P4_150167_92106	NW_004516301.1	Scaffold963	92106	TT	CC	1946988529
SNP_P4_150168_92348	NW_004516301.1	Scaffold963	92348	TT	CC	1946988531
SNP_P4_150169_92441	NW_004516301.1	Scaffold963	92441	AA	CC	1946988533
SNP_P4_150170_93435	NW_004516301.1	Scaffold963	93435	AA	TT	1946988535
SNP_P4_150171_93618	NW_004516301.1	Scaffold963	93618	TT	CC	1946988536
SNP_P4_150172_93619	NW_004516301.1	Scaffold963	93619	AA	GG	1946988538
SNP_P4_150174_93716	NW_004516301.1	Scaffold963	93716	TT	CC	1946988540
SNP_P4_150175_93728	NW_004516301.1	Scaffold963	93728	TT	GG	1946988542
SNP_P4_150176_93730	NW_004516301.1	Scaffold963	93730	CC	AA	1946988544
SNP_P4_150177_93744	NW_004516301.1	Scaffold963	93744	GG	AA	1946988546
SNP_P4_150178_93749	NW_004516301.1	Scaffold963	93749	GG	AA	1946988548
SNP_P4_150179_99546	NW_004516301.1	Scaffold963	99546	GG	AA	1946988551
SNP_P4_150181_101624	NW_004516301.1	Scaffold963	101624	GG	AA	1946988553
SNP_P4_150182_101656	NW_004516301.1	Scaffold963	101656	TT	GG	1946988555
SNP_P4_150183_104074	NW_004516301.1	Scaffold963	104074	CC	TT	1946988557

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_150185_636	NW_004516302.1	Scaffold964	636	GG	AA	1946988561
SNP_P4_150186_680	NW_004516302.1	Scaffold964	680	AA	TT	1946988563
SNP_P4_150187_891	NW_004516302.1	Scaffold964	891	CC	TT	1946988565
SNP_P4_150188_2351	NW_004516302.1	Scaffold964	2351	AA	GG	1946988567
SNP_P4_150189_2646	NW_004516302.1	Scaffold964	2646	AA	GG	1946988569
SNP_P4_150190_6784	NW_004516302.1	Scaffold964	6784	AA	CC	1946988571
SNP_P4_150191_6984	NW_004516302.1	Scaffold964	6984	AA	GG	1946988573
SNP_P4_150192_7084	NW_004516302.1	Scaffold964	7084	TT	GG	1946988576
SNP_P4_150193_7087	NW_004516302.1	Scaffold964	7087	AA	TT	1946988578
SNP_P4_150194_7090	NW_004516302.1	Scaffold964	7090	TT	AA	1946988580
SNP_P4_150195_8643	NW_004516302.1	Scaffold964	8643	TT	CC	1946988582
SNP_P4_150196_8844	NW_004516302.1	Scaffold964	8844	TT	GG	1946988584
SNP_P4_150197_9547	NW_004516302.1	Scaffold964	9547	AA	GG	1946988586
SNP_P4_150198_9568	NW_004516302.1	Scaffold964	9568	CC	GG	1946988588
SNP_P4_150199_10101	NW_004516302.1	Scaffold964	10101	CC	TT	1946988590
SNP_P4_150200_10613	NW_004516302.1	Scaffold964	10613	GG	TT	1946988592
SNP_P4_150201_10695	NW_004516302.1	Scaffold964	10695	AA	GG	1946988594
SNP_P4_150202_10993	NW_004516302.1	Scaffold964	10993	GG	AA	1946988596
SNP_P4_150203_11017	NW_004516302.1	Scaffold964	11017	AA	CC	1946988598
SNP_P4_150204_11379	NW_004516302.1	Scaffold964	11379	AA	CC	1946988600
SNP_P4_150205_11411	NW_004516302.1	Scaffold964	11411	GG	AA	1946988602
SNP_P4_150206_12586	NW_004516302.1	Scaffold964	12586	TT	AA	1946988604
SNP_P4_150207_12615	NW_004516302.1	Scaffold964	12615	CC	AA	1946988606
SNP_P4_150208_12810	NW_004516302.1	Scaffold964	12810	TT	CC	1946988608
SNP_P4_150209_12862	NW_004516302.1	Scaffold964	12862	CC	TT	1946988610
SNP_P4_150210_12900	NW_004516302.1	Scaffold964	12900	CC	TT	1946988612
SNP_P4_150211_12953	NW_004516302.1	Scaffold964	12953	GG	TT	1946988614
SNP_P4_150212_13573	NW_004516302.1	Scaffold964	13573	AA	CC	1946988616
SNP_P4_150213_13605	NW_004516302.1	Scaffold964	13605	AA	GG	1946988618
SNP_P4_150214_13638	NW_004516302.1	Scaffold964	13638	TT	AA	1946988620
SNP_P4_150215_18131	NW_004516302.1	Scaffold964	18131	AA	TT	1946988622
SNP_P4_150216_18136	NW_004516302.1	Scaffold964	18136	AA	CC	1946988624
SNP_P4_150217_18142	NW_004516302.1	Scaffold964	18142	AA	GG	1946988626
SNP_P4_150218_18161	NW_004516302.1	Scaffold964	18161	AA	GG	1946988628
SNP_P4_150219_19810	NW_004516302.1	Scaffold964	19810	AA	GG	1946988630
SNP_P4_150220_32109	NW_004516302.1	Scaffold964	32109	GG	TT	1946988632
SNP_P4_150221_32122	NW_004516302.1	Scaffold964	32122	AA	CC	1946988634
SNP_P4_150222_45675	NW_004516302.1	Scaffold964	45675	TT	AA	1946988637
SNP_P4_150223_45808	NW_004516302.1	Scaffold964	45808	CC	AA	1946988639
SNP_P4_150224_45869	NW_004516302.1	Scaffold964	45869	CC	TT	1946988641
SNP_P4_150225_47714	NW_004516302.1	Scaffold964	47714	AA	CC	1946988643

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_150227_58079	NW_004516302.1	Scaffold964	58079	CC	TT	1946988647
SNP_P4_150228_62690	NW_004516302.1	Scaffold964	62690	CC	GG	1946988649
SNP_P4_150229_62698	NW_004516302.1	Scaffold964	62698	GG	TT	1946988652
SNP_P4_150230_62787	NW_004516302.1	Scaffold964	62787	AA	CC	1946988654
SNP_P4_150231_63111	NW_004516302.1	Scaffold964	63111	AA	GG	1946988656
SNP_P4_150232_67132	NW_004516302.1	Scaffold964	67132	TT	AA	1946988658
SNP_P4_150233_72241	NW_004516302.1	Scaffold964	72241	CC	TT	1946988660
SNP_P4_150236_80889	NW_004516302.1	Scaffold964	80889	TT	AA	1946988662
SNP_P4_150237_84913	NW_004516302.1	Scaffold964	84913	TT	CC	1946988664
SNP_P4_150238_3761	NW_004516303.1	Scaffold965	3761	TT	GG	1946988666
SNP_P4_150239_2664	NW_004516304.1	Scaffold967	2664	CC	AA	1946988668
SNP_P4_150240_5182	NW_004516304.1	Scaffold967	5182	CC	GG	1946988670
SNP_P4_150241_5199	NW_004516304.1	Scaffold967	5199	TT	AA	1946988672
SNP_P4_150242_583	NW_004516305.1	Scaffold968	583	GG	AA	1946988674
SNP_P4_150243_7195	NW_004516305.1	Scaffold968	7195	AA	GG	1946988676
SNP_P4_150244_979	NW_004516306.1	Scaffold969	979	AA	TT	1946988678
SNP_P4_150245_1177	NW_004516306.1	Scaffold969	1177	AA	TT	1946988680
SNP_P4_150246_1366	NW_004516306.1	Scaffold969	1366	CC	AA	1946988682
SNP_P4_150247_1375	NW_004516306.1	Scaffold969	1375	GG	AA	1946988684
SNP_P4_150248_1519	NW_004516306.1	Scaffold969	1519	AA	GG	1946988686
SNP_P4_150249_281	NW_004516307.1	Scaffold971	281	CC	TT	1946988688
SNP_P4_150250_342	NW_004516307.1	Scaffold971	342	CC	TT	1946988691
SNP_P4_150251_527	NW_004516307.1	Scaffold971	527	TT	AA	1946988693
SNP_P4_150252_553	NW_004516307.1	Scaffold971	553	TT	AA	1946988695
SNP_P4_150253_573	NW_004516307.1	Scaffold971	573	GG	AA	1946988697
SNP_P4_150254_1124	NW_004516307.1	Scaffold971	1124	TT	CC	1946988699
SNP_P4_150255_3501	NW_004516307.1	Scaffold971	3501	GG	AA	1946988701
SNP_P4_150256_3513	NW_004516307.1	Scaffold971	3513	GG	AA	1946988703
SNP_P4_150257_3517	NW_004516307.1	Scaffold971	3517	TT	AA	1946988705
SNP_P4_150258_3528	NW_004516307.1	Scaffold971	3528	TT	AA	1946988707
SNP_P4_150259_3539	NW_004516307.1	Scaffold971	3539	AA	TT	1946988709
SNP_P4_150260_3634	NW_004516307.1	Scaffold971	3634	CC	AA	1946988711
SNP_P4_150261_3700	NW_004516307.1	Scaffold971	3700	AA	CC	1946988713
SNP_P4_150262_3991	NW_004516307.1	Scaffold971	3991	GG	AA	1946988715
SNP_P4_150263_4019	NW_004516307.1	Scaffold971	4019	AA	GG	1946988717
SNP_P4_150264_4331	NW_004516307.1	Scaffold971	4331	AA	GG	1946988719
SNP_P4_150265_5177	NW_004516307.1	Scaffold971	5177	GG	AA	1946988721
SNP_P4_150266_5420	NW_004516307.1	Scaffold971	5420	AA	GG	1946988723
SNP_P4_150267_7881	NW_004516307.1	Scaffold971	7881	CC	TT	1946988725
SNP_P4_150268_11343	NW_004516307.1	Scaffold971	11343	CC	AA	1946988727
SNP_P4_150269_11404	NW_004516307.1	Scaffold971	11404	CC	TT	1946988729

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_150270_12587	NW_004516307.1	Scaffold971	12587	CC	AA	1946988731
SNP_P4_150271_13443	NW_004516307.1	Scaffold971	13443	AA	TT	1946988734
SNP_P4_150272_13460	NW_004516307.1	Scaffold971	13460	CC	GG	1946988736
SNP_P4_150273_13900	NW_004516307.1	Scaffold971	13900	CC	AA	1946988738
SNP_P4_150274_13945	NW_004516307.1	Scaffold971	13945	AA	TT	1946988740
SNP_P4_150275_14796	NW_004516307.1	Scaffold971	14796	GG	TT	1946988742
SNP_P4_150276_7258	NW_004516308.1	Scaffold972	7258	GG	AA	1946988745
SNP_P4_150277_12487	NW_004516308.1	Scaffold972	12487	GG	TT	1946988747
SNP_P4_150278_12532	NW_004516308.1	Scaffold972	12532	AA	GG	1946988749
SNP_P4_150279_12878	NW_004516308.1	Scaffold972	12878	AA	GG	1946988751
SNP_P4_150280_12939	NW_004516308.1	Scaffold972	12939	AA	CC	1946988753
SNP_P4_150282_18976	NW_004516308.1	Scaffold972	18976	AA	GG	1946988755
SNP_P4_150283_492	NW_004516309.1	Scaffold973	492	AA	TT	1946988757
SNP_P4_150284_1218	NW_004516309.1	Scaffold973	1218	GG	AA	1946988759
SNP_P4_150285_3367	NW_004516309.1	Scaffold973	3367	AA	GG	1946988761
SNP_P4_150286_3408	NW_004516309.1	Scaffold973	3408	TT	AA	1946988763
SNP_P4_150287_3608	NW_004516309.1	Scaffold973	3608	AA	GG	1946988765
SNP_P4_150288_3696	NW_004516309.1	Scaffold973	3696	GG	AA	1946988768
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SNP_P4_150290_4448	NW_004516309.1	Scaffold973	4448	TT	CC	1946988772
SNP_P4_150291_12184	NW_004516309.1	Scaffold973	12184	TT	AA	1946988774
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SNP_P4_150297_2953	NW_004516310.1	Scaffold974	2953	GG	TT	1946988786
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SNP_P4_150300_3463	NW_004516310.1	Scaffold974	3463	GG	TT	1946988792
SNP_P4_150301_3470	NW_004516310.1	Scaffold974	3470	GG	CC	1946988794
SNP_P4_150302_3491	NW_004516310.1	Scaffold974	3491	CC	TT	1946988796
SNP_P4_150303_3687	NW_004516310.1	Scaffold974	3687	CC	AA	1946988798
SNP_P4_150304_3843	NW_004516310.1	Scaffold974	3843	TT	AA	1946988800
SNP_P4_150305_3844	NW_004516310.1	Scaffold974	3844	GG	TT	1946988802
SNP_P4_150307_5279	NW_004516310.1	Scaffold974	5279	TT	CC	1946988804
SNP_P4_150308_6035	NW_004516310.1	Scaffold974	6035	CC	TT	1946988806
SNP_P4_150309_11432	NW_004516310.1	Scaffold974	11432	TT	GG	1946988808
SNP_P4_150310_13096	NW_004516310.1	Scaffold974	13096	TT	CC	1946988810
SNP_P4_150311_19633	NW_004516310.1	Scaffold974	19633	CC	TT	1946988812
SNP_P4_150312_19656	NW_004516310.1	Scaffold974	19656	AA	GG	1946988814
SNP_P4_150313_19663	NW_004516310.1	Scaffold974	19663	AA	GG	1946988816

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_150315_30319	NW_004516310.1	Scaffold974	30319	AA	GG	1946988820
SNP_P4_150316_30330	NW_004516310.1	Scaffold974	30330	GG	AA	1946988822
SNP_P4_150317_31542	NW_004516310.1	Scaffold974	31542	AA	TT	1946988824
SNP_P4_150318_33867	NW_004516310.1	Scaffold974	33867	CC	TT	1946988826
SNP_P4_150319_33870	NW_004516310.1	Scaffold974	33870	AA	TT	1946988827
SNP_P4_150320_33900	NW_004516310.1	Scaffold974	33900	AA	GG	1946988829
SNP_P4_150321_33924	NW_004516310.1	Scaffold974	33924	GG	TT	1946988831
SNP_P4_150322_33932	NW_004516310.1	Scaffold974	33932	TT	CC	1946988833
SNP_P4_150323_34240	NW_004516310.1	Scaffold974	34240	AA	GG	1946988835
SNP_P4_150324_34259	NW_004516310.1	Scaffold974	34259	GG	AA	1946988837
SNP_P4_150325_34280	NW_004516310.1	Scaffold974	34280	TT	CC	1946988839
SNP_P4_150326_36399	NW_004516310.1	Scaffold974	36399	GG	AA	1946988841
SNP_P4_150327_394	NW_004516311.1	Scaffold977	394	CC	AA	1946988843
SNP_P4_150328_471	NW_004516311.1	Scaffold977	471	AA	GG	1946988845
SNP_P4_150329_480	NW_004516311.1	Scaffold977	480	GG	AA	1946988847
SNP_P4_150330_602	NW_004516311.1	Scaffold977	602	GG	AA	1946988849
SNP_P4_150331_3799	NW_004516311.1	Scaffold977	3799	CC	AA	1946988851
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SNP_P4_150333_4769	NW_004516311.1	Scaffold977	4769	TT	GG	1946988855
SNP_P4_150334_4840	NW_004516311.1	Scaffold977	4840	CC	GG	1946988857
SNP_P4_150335_4994	NW_004516311.1	Scaffold977	4994	TT	CC	1946988859
SNP_P4_150336_5019	NW_004516311.1	Scaffold977	5019	GG	TT	1946988861
SNP_P4_150337_5078	NW_004516311.1	Scaffold977	5078	AA	CC	1946988862
SNP_P4_150338_5081	NW_004516311.1	Scaffold977	5081	TT	CC	1946988864
SNP_P4_150339_5231	NW_004516311.1	Scaffold977	5231	TT	AA	1946988866
SNP_P4_150340_6192	NW_004516311.1	Scaffold977	6192	TT	CC	1946988868
SNP_P4_150341_6201	NW_004516311.1	Scaffold977	6201	GG	AA	1946988870
SNP_P4_150342_6210	NW_004516311.1	Scaffold977	6210	GG	TT	1946988872
SNP_P4_150343_6230	NW_004516311.1	Scaffold977	6230	AA	CC	1946988874
SNP_P4_150344_6247	NW_004516311.1	Scaffold977	6247	CC	GG	1946988876
SNP_P4_150345_6255	NW_004516311.1	Scaffold977	6255	TT	AA	1946988878
SNP_P4_150346_6287	NW_004516311.1	Scaffold977	6287	CC	GG	1946988880
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SNP_P4_150348_6534	NW_004516311.1	Scaffold977	6534	CC	TT	1946988884
SNP_P4_150349_6569	NW_004516311.1	Scaffold977	6569	CC	TT	1946988886
SNP_P4_150350_6666	NW_004516311.1	Scaffold977	6666	TT	AA	1946988888
SNP_P4_150351_6773	NW_004516311.1	Scaffold977	6773	CC	AA	1946988890
SNP_P4_150352_6787	NW_004516311.1	Scaffold977	6787	TT	GG	1946988892
SNP_P4_150353_6835	NW_004516311.1	Scaffold977	6835	AA	GG	1946988894
SNP_P4_150354_6849	NW_004516311.1	Scaffold977	6849	TT	AA	1946988896
SNP_P4_150356_1915	NW_004516313.1	Scaffold981	1915	CC	TT	1946988898

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_150357_2126	NW_004516313.1	Scaffold981	2126	TT	CC	1946988900
SNP_P4_150358_2141	NW_004516313.1	Scaffold981	2141	AA	GG	1946988902
SNP_P4_150359_2144	NW_004516313.1	Scaffold981	2144	CC	TT	1946988904
SNP_P4_150360_2243	NW_004516313.1	Scaffold981	2243	TT	CC	1946988906
SNP_P4_150361_5955	NW_004516313.1	Scaffold981	5955	TT	CC	1946988908
SNP_P4_150362_6355	NW_004516313.1	Scaffold981	6355	CC	AA	1946988910
SNP_P4_150363_6377	NW_004516313.1	Scaffold981	6377	AA	GG	1946988912
SNP_P4_150364_6459	NW_004516313.1	Scaffold981	6459	AA	CC	1946988914
SNP_P4_150365_6557	NW_004516313.1	Scaffold981	6557	TT	CC	1946988916
SNP_P4_150367_9244	NW_004516313.1	Scaffold981	9244	GG	AA	1946988918
SNP_P4_150368_9252	NW_004516313.1	Scaffold981	9252	TT	CC	1946988920
SNP_P4_150370_10135	NW_004516313.1	Scaffold981	10135	AA	GG	1946988922
SNP_P4_150371_10352	NW_004516313.1	Scaffold981	10352	GG	CC	1946988924
SNP_P4_150372_10555	NW_004516313.1	Scaffold981	10555	CC	GG	1946988927
SNP_P4_150373_10903	NW_004516313.1	Scaffold981	10903	CC	TT	1946988929
SNP_P4_150375_11060	NW_004516313.1	Scaffold981	11060	CC	AA	1946988931
SNP_P4_150376_11074	NW_004516313.1	Scaffold981	11074	TT	CC	1946988933
SNP_P4_150377_11087	NW_004516313.1	Scaffold981	11087	TT	CC	1946988935
SNP_P4_150378_11098	NW_004516313.1	Scaffold981	11098	GG	AA	1946988937
SNP_P4_150379_11963	NW_004516313.1	Scaffold981	11963	CC	TT	1946988939
SNP_P4_150380_14778	NW_004516313.1	Scaffold981	14778	GG	AA	1946988941
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SNP_P4_150382_18681	NW_004516313.1	Scaffold981	18681	TT	CC	1946988945
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SNP_P4_150384_39700	NW_004516313.1	Scaffold981	39700	GG	AA	1946988949
SNP_P4_150385_39758	NW_004516313.1	Scaffold981	39758	AA	GG	1946988951
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SNP_P4_150387_39764	NW_004516313.1	Scaffold981	39764	CC	AA	1946988955
SNP_P4_150388_39766	NW_004516313.1	Scaffold981	39766	AA	GG	1946988957
SNP_P4_150389_43253	NW_004516313.1	Scaffold981	43253	GG	CC	1946988959
SNP_P4_150390_43324	NW_004516313.1	Scaffold981	43324	AA	CC	1946988961
SNP_P4_150391_44322	NW_004516313.1	Scaffold981	44322	CC	TT	1946988963
SNP_P4_150392_44457	NW_004516313.1	Scaffold981	44457	AA	CC	1946988965
SNP_P4_150393_48794	NW_004516313.1	Scaffold981	48794	TT	AA	1946988967
SNP_P4_150394_49494	NW_004516313.1	Scaffold981	49494	GG	CC	1946988969
SNP_P4_150395_49714	NW_004516313.1	Scaffold981	49714	TT	CC	1946988971
SNP_P4_150396_49726	NW_004516313.1	Scaffold981	49726	TT	AA	1946988973
SNP_P4_150397_49735	NW_004516313.1	Scaffold981	49735	CC	GG	1946988975
SNP_P4_150398_49740	NW_004516313.1	Scaffold981	49740	CC	TT	1946988977
SNP_P4_150399_49777	NW_004516313.1	Scaffold981	49777	TT	CC	1946988979
SNP_P4_150400_49824	NW_004516313.1	Scaffold981	49824	CC	AA	1946988981
SNP_P4_150401_49926	NW_004516313.1	Scaffold981	49926	TT	AA	1946988983

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_150403_50025	NW_004516313.1	Scaffold981	50025	TT	AA	1946988987
SNP_P4_150404_50071	NW_004516313.1	Scaffold981	50071	CC	TT	1946988989
SNP_P4_150405_50689	NW_004516313.1	Scaffold981	50689	AA	CC	1946988991
SNP_P4_150406_52891	NW_004516313.1	Scaffold981	52891	CC	TT	1946988993
SNP_P4_150407_53948	NW_004516313.1	Scaffold981	53948	GG	TT	1946988995
SNP_P4_150408_54063	NW_004516313.1	Scaffold981	54063	CC	TT	1946988997
SNP_P4_150409_70088	NW_004516313.1	Scaffold981	70088	GG	AA	1946988999
SNP_P4_150410_70643	NW_004516313.1	Scaffold981	70643	CC	AA	1946989001
SNP_P4_150411_73561	NW_004516313.1	Scaffold981	73561	CC	AA	1946989003
SNP_P4_150412_73576	NW_004516313.1	Scaffold981	73576	TT	AA	1946989005
SNP_P4_150413_73582	NW_004516313.1	Scaffold981	73582	CC	GG	1946989007
SNP_P4_150414_77545	NW_004516313.1	Scaffold981	77545	CC	TT	1946989009
SNP_P4_150415_77799	NW_004516313.1	Scaffold981	77799	CC	AA	1946989011
SNP_P4_150416_77802	NW_004516313.1	Scaffold981	77802	CC	TT	1946989013
SNP_P4_150417_77805	NW_004516313.1	Scaffold981	77805	TT	GG	1946989015
SNP_P4_150418_77808	NW_004516313.1	Scaffold981	77808	CC	AA	1946989017
SNP_P4_150419_77882	NW_004516313.1	Scaffold981	77882	TT	CC	1946989019
SNP_P4_150420_77890	NW_004516313.1	Scaffold981	77890	GG	AA	1946989021
SNP_P4_150421_77911	NW_004516313.1	Scaffold981	77911	GG	AA	1946989023
SNP_P4_150422_78041	NW_004516313.1	Scaffold981	78041	AA	CC	1946989025
SNP_P4_150423_78049	NW_004516313.1	Scaffold981	78049	AA	GG	1946989027
SNP_P4_150424_78396	NW_004516313.1	Scaffold981	78396	TT	CC	1946989029
SNP_P4_150425_78580	NW_004516313.1	Scaffold981	78580	AA	GG	1946989031
SNP_P4_150426_78615	NW_004516313.1	Scaffold981	78615	AA	GG	1946989033
SNP_P4_150427_78704	NW_004516313.1	Scaffold981	78704	TT	CC	1946989035
SNP_P4_150428_79028	NW_004516313.1	Scaffold981	79028	AA	GG	1946989037
SNP_P4_150429_79088	NW_004516313.1	Scaffold981	79088	CC	GG	1946989039
SNP_P4_150430_79320	NW_004516313.1	Scaffold981	79320	AA	GG	1946989041
SNP_P4_150431_79335	NW_004516313.1	Scaffold981	79335	CC	TT	1946989043
SNP_P4_150432_79359	NW_004516313.1	Scaffold981	79359	AA	GG	1946989045
SNP_P4_150433_79361	NW_004516313.1	Scaffold981	79361	AA	GG	1946989047
SNP_P4_150434_83927	NW_004516313.1	Scaffold981	83927	TT	CC	1946989049
SNP_P4_150435_84237	NW_004516313.1	Scaffold981	84237	TT	AA	1946989051
SNP_P4_150436_84238	NW_004516313.1	Scaffold981	84238	AA	TT	1946989053
SNP_P4_150437_84265	NW_004516313.1	Scaffold981	84265	AA	GG	1946989055
SNP_P4_150438_84314	NW_004516313.1	Scaffold981	84314	AA	CC	1946989057
SNP_P4_150440_84544	NW_004516313.1	Scaffold981	84544	CC	TT	1946989059
SNP_P4_150441_496	NW_004516314.1	Scaffold982	496	CC	GG	1946989061
SNP_P4_150445_1212	NW_004516314.1	Scaffold982	1212	AA	GG	1946989063
SNP_P4_150446_1250	NW_004516314.1	Scaffold982	1250	CC	AA	1946989065
SNP_P4_150449_1854	NW_004516314.1	Scaffold982	1854	AA	TT	1946989067

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_150451_2819	NW_004516314.1	Scaffold982	2819	TT	AA	1946989071
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SNP_P4_150454_5533	NW_004516314.1	Scaffold982	5533	TT	CC	1946989077
SNP_P4_150456_6010	NW_004516314.1	Scaffold982	6010	GG	TT	1946989079
SNP_P4_150457_6976	NW_004516314.1	Scaffold982	6976	TT	AA	1946989081
SNP_P4_150458_7001	NW_004516314.1	Scaffold982	7001	GG	AA	1946989083
SNP_P4_150459_7346	NW_004516314.1	Scaffold982	7346	AA	TT	1946989085
SNP_P4_150460_13785	NW_004516314.1	Scaffold982	13785	GG	AA	1946989087
SNP_P4_150461_14243	NW_004516314.1	Scaffold982	14243	GG	CC	1946989089
SNP_P4_150462_14553	NW_004516314.1	Scaffold982	14553	GG	CC	1946989091
SNP_P4_150463_14774	NW_004516314.1	Scaffold982	14774	GG	TT	1946989093
SNP_P4_150464_14789	NW_004516314.1	Scaffold982	14789	GG	AA	1946989095
SNP_P4_150465_14806	NW_004516314.1	Scaffold982	14806	TT	AA	1946989097
SNP_P4_150466_14809	NW_004516314.1	Scaffold982	14809	CC	AA	1946989099
SNP_P4_150468_15039	NW_004516314.1	Scaffold982	15039	AA	GG	1946989101
SNP_P4_150469_15057	NW_004516314.1	Scaffold982	15057	GG	AA	1946989103
SNP_P4_150471_15693	NW_004516314.1	Scaffold982	15693	TT	GG	1946989105
SNP_P4_150472_9875	NW_004516315.1	Scaffold983	9875	GG	AA	1946989107
SNP_P4_150473_14324	NW_004516315.1	Scaffold983	14324	AA	GG	1946989109
SNP_P4_150474_22548	NW_004516315.1	Scaffold983	22548	TT	CC	1946989111
SNP_P4_150475_24835	NW_004516315.1	Scaffold983	24835	AA	GG	1946989113
SNP_P4_150476_30190	NW_004516315.1	Scaffold983	30190	TT	CC	1946989115
SNP_P4_150477_33233	NW_004516315.1	Scaffold983	33233	AA	GG	1946989117
SNP_P4_150478_33259	NW_004516315.1	Scaffold983	33259	AA	GG	1946989119
SNP_P4_150481_33288	NW_004516315.1	Scaffold983	33288	AA	TT	1946989121
SNP_P4_150482_33319	NW_004516315.1	Scaffold983	33319	TT	CC	1946989123
SNP_P4_150483_33338	NW_004516315.1	Scaffold983	33338	CC	TT	1946989125
SNP_P4_150484_33343	NW_004516315.1	Scaffold983	33343	TT	GG	1946989127
SNP_P4_150485_60154	NW_004516315.1	Scaffold983	60154	AA	TT	1946989129
SNP_P4_150486_66567	NW_004516315.1	Scaffold983	66567	AA	GG	1946989131
SNP_P4_150487_76816	NW_004516315.1	Scaffold983	76816	TT	CC	1946989133
SNP_P4_150488_88005	NW_004516315.1	Scaffold983	88005	TT	AA	1946989135
SNP_P4_150489_88021	NW_004516315.1	Scaffold983	88021	AA	GG	1946989137
SNP_P4_150490_88174	NW_004516315.1	Scaffold983	88174	GG	CC	1946989139
SNP_P4_150492_88254	NW_004516315.1	Scaffold983	88254	TT	CC	1946989141
SNP_P4_150493_88296	NW_004516315.1	Scaffold983	88296	CC	TT	1946989143
SNP_P4_150494_88343	NW_004516315.1	Scaffold983	88343	CC	TT	1946989145
SNP_P4_150495_88349	NW_004516315.1	Scaffold983	88349	GG	AA	1946989147
SNP_P4_150497_88683	NW_004516315.1	Scaffold983	88683	TT	AA	1946989149
SNP_P4_150498_113999	NW_004516315.1	Scaffold983	113999	CC	AA	1946989151

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_150500_128346	NW_004516315.1	Scaffold983	128346	TT	AA	1946989155
SNP_P4_150502_128776	NW_004516315.1	Scaffold983	128776	GG	TT	1946989157
SNP_P4_150503_129231	NW_004516315.1	Scaffold983	129231	AA	GG	1946989159
SNP_P4_150504_129477	NW_004516315.1	Scaffold983	129477	GG	TT	1946989161
SNP_P4_150505_129500	NW_004516315.1	Scaffold983	129500	TT	AA	1946989163
SNP_P4_150506_129501	NW_004516315.1	Scaffold983	129501	CC	AA	1946989165
SNP_P4_150507_129519	NW_004516315.1	Scaffold983	129519	GG	TT	1946989167
SNP_P4_150508_141413	NW_004516315.1	Scaffold983	141413	TT	GG	1946989170
SNP_P4_150509_141568	NW_004516315.1	Scaffold983	141568	CC	TT	1946989172
SNP_P4_150511_141855	NW_004516315.1	Scaffold983	141855	TT	AA	1946989174
SNP_P4_150513_169346	NW_004516315.1	Scaffold983	169346	TT	CC	1946989176
SNP_P4_150514_169466	NW_004516315.1	Scaffold983	169466	GG	AA	1946989178
SNP_P4_150515_169580	NW_004516315.1	Scaffold983	169580	CC	GG	1946989180
SNP_P4_150516_169588	NW_004516315.1	Scaffold983	169588	TT	AA	1946989182
SNP_P4_150517_169601	NW_004516315.1	Scaffold983	169601	AA	CC	1946989184
SNP_P4_150518_169618	NW_004516315.1	Scaffold983	169618	CC	TT	1946989186
SNP_P4_150519_169794	NW_004516315.1	Scaffold983	169794	TT	AA	1946989188
SNP_P4_150520_169797	NW_004516315.1	Scaffold983	169797	GG	AA	1946989190
SNP_P4_150521_174279	NW_004516315.1	Scaffold983	174279	AA	GG	1946989192
SNP_P4_150522_174293	NW_004516315.1	Scaffold983	174293	GG	AA	1946989194
SNP_P4_150523_174388	NW_004516315.1	Scaffold983	174388	CC	TT	1946989196
SNP_P4_150524_174407	NW_004516315.1	Scaffold983	174407	TT	CC	1946989198
SNP_P4_150525_174421	NW_004516315.1	Scaffold983	174421	TT	CC	1946989200
SNP_P4_150526_174459	NW_004516315.1	Scaffold983	174459	AA	CC	1946989202
SNP_P4_150527_174520	NW_004516315.1	Scaffold983	174520	AA	GG	1946989203
SNP_P4_150528_174522	NW_004516315.1	Scaffold983	174522	CC	AA	1946989204
SNP_P4_150529_174632	NW_004516315.1	Scaffold983	174632	AA	TT	1946989205
SNP_P4_150531_174679	NW_004516315.1	Scaffold983	174679	GG	AA	1946989206
SNP_P4_150532_175295	NW_004516315.1	Scaffold983	175295	GG	AA	1946989207
SNP_P4_150533_219082	NW_004516315.1	Scaffold983	219082	AA	CC	1946989208
SNP_P4_150534_234235	NW_004516315.1	Scaffold983	234235	CC	GG	1946989210
SNP_P4_150535_250179	NW_004516315.1	Scaffold983	250179	AA	CC	1946989212
SNP_P4_150536_254722	NW_004516315.1	Scaffold983	254722	AA	GG	1946989214
SNP_P4_150537_254924	NW_004516315.1	Scaffold983	254924	CC	TT	1946989216
SNP_P4_150538_255047	NW_004516315.1	Scaffold983	255047	AA	GG	1946989218
SNP_P4_150539_255170	NW_004516315.1	Scaffold983	255170	AA	GG	1946989221
SNP_P4_150541_255185	NW_004516315.1	Scaffold983	255185	CC	TT	1946989223
SNP_P4_150542_276000	NW_004516315.1	Scaffold983	276000	TT	CC	1946989225
SNP_P4_150544_278467	NW_004516315.1	Scaffold983	278467	TT	CC	1946989227
SNP_P4_150545_287357	NW_004516315.1	Scaffold983	287357	GG	TT	1946989229
SNP_P4_150546_287403	NW_004516315.1	Scaffold983	287403	TT	AA	1946989231

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_150548_287428	NW_004516315.1	Scaffold983	287428	AA	GG	1946989235
SNP_P4_150549_287470	NW_004516315.1	Scaffold983	287470	CC	AA	1946989237
SNP_P4_150552_287716	NW_004516315.1	Scaffold983	287716	AA	CC	1946989239
SNP_P4_150553_287745	NW_004516315.1	Scaffold983	287745	TT	GG	1946989241
SNP_P4_150554_287755	NW_004516315.1	Scaffold983	287755	GG	TT	1946989243
SNP_P4_150555_287771	NW_004516315.1	Scaffold983	287771	TT	CC	1946989245
SNP_P4_150556_287783	NW_004516315.1	Scaffold983	287783	TT	CC	1946989247
SNP_P4_150557_287785	NW_004516315.1	Scaffold983	287785	TT	CC	1946989249
SNP_P4_150558_287866	NW_004516315.1	Scaffold983	287866	AA	GG	1946989251
SNP_P4_150559_287891	NW_004516315.1	Scaffold983	287891	AA	GG	1946989253
SNP_P4_150560_287965	NW_004516315.1	Scaffold983	287965	AA	TT	1946989255
SNP_P4_150561_287997	NW_004516315.1	Scaffold983	287997	AA	TT	1946989257
SNP_P4_150562_288036	NW_004516315.1	Scaffold983	288036	AA	CC	1946989259
SNP_P4_150563_288163	NW_004516315.1	Scaffold983	288163	CC	TT	1946989261
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SNP_P4_150566_293022	NW_004516315.1	Scaffold983	293022	GG	AA	1946989268
SNP_P4_150567_293372	NW_004516315.1	Scaffold983	293372	CC	TT	1946989270
SNP_P4_150568_309280	NW_004516315.1	Scaffold983	309280	TT	CC	1946989272
SNP_P4_150569_309283	NW_004516315.1	Scaffold983	309283	TT	CC	1946989274
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SNP_P4_150575_1435	NW_004516316.1	Scaffold984	1435	AA	CC	1946989284
SNP_P4_150576_1455	NW_004516316.1	Scaffold984	1455	GG	TT	1946989287
SNP_P4_150577_2545	NW_004516316.1	Scaffold984	2545	TT	AA	1946989289
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SNP_P4_150579_4024	NW_004516316.1	Scaffold984	4024	CC	GG	1946989293
SNP_P4_150581_13599	NW_004516316.1	Scaffold984	13599	TT	AA	1946989295
SNP_P4_150582_13700	NW_004516316.1	Scaffold984	13700	CC	AA	1946989297
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SNP_P4_150584_33504	NW_004516316.1	Scaffold984	33504	GG	TT	1946989301
SNP_P4_150585_33626	NW_004516316.1	Scaffold984	33626	GG	TT	1946989303
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SNP_P4_150589_36187	NW_004516316.1	Scaffold984	36187	GG	AA	1946989311
SNP_P4_150591_36424	NW_004516316.1	Scaffold984	36424	AA	TT	1946989313
SNP_P4_150592_36663	NW_004516316.1	Scaffold984	36663	CC	TT	1946989315
SNP_P4_150593_36692	NW_004516316.1	Scaffold984	36692	AA	GG	1946989317

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_150595_36760	NW_004516316.1	Scaffold984	36760	TT	GG	1946989321
SNP_P4_150596_36763	NW_004516316.1	Scaffold984	36763	GG	TT	1946989323
SNP_P4_150597_40065	NW_004516316.1	Scaffold984	40065	AA	CC	1946989325
SNP_P4_150598_55126	NW_004516316.1	Scaffold984	55126	TT	AA	1946989327
SNP_P4_150599_55140	NW_004516316.1	Scaffold984	55140	TT	AA	1946989329
SNP_P4_150600_55153	NW_004516316.1	Scaffold984	55153	CC	GG	1946989331
SNP_P4_150601_60298	NW_004516316.1	Scaffold984	60298	TT	CC	1946989333
SNP_P4_150602_64122	NW_004516316.1	Scaffold984	64122	AA	TT	1946989335
SNP_P4_150603_66719	NW_004516316.1	Scaffold984	66719	TT	GG	1946989337
SNP_P4_150604_66933	NW_004516316.1	Scaffold984	66933	CC	TT	1946989339
SNP_P4_150605_67112	NW_004516316.1	Scaffold984	67112	AA	CC	1946989341
SNP_P4_150606_67345	NW_004516316.1	Scaffold984	67345	AA	CC	1946989343
SNP_P4_150607_73241	NW_004516316.1	Scaffold984	73241	TT	GG	1946989345
SNP_P4_150608_76826	NW_004516316.1	Scaffold984	76826	GG	TT	1946989347
SNP_P4_150609_77778	NW_004516316.1	Scaffold984	77778	TT	AA	1946989349
SNP_P4_150610_78016	NW_004516316.1	Scaffold984	78016	GG	TT	1946989351
SNP_P4_150611_78163	NW_004516316.1	Scaffold984	78163	AA	TT	1946989353
SNP_P4_150612_78164	NW_004516316.1	Scaffold984	78164	TT	GG	1946989355
SNP_P4_150613_78174	NW_004516316.1	Scaffold984	78174	CC	AA	1946989357
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SNP_P4_150616_78261	NW_004516316.1	Scaffold984	78261	CC	AA	1946989363
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SNP_P4_150618_78309	NW_004516316.1	Scaffold984	78309	AA	GG	1946989367
SNP_P4_150619_81209	NW_004516316.1	Scaffold984	81209	AA	GG	1946989369
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SNP_P4_150621_92176	NW_004516316.1	Scaffold984	92176	TT	CC	1946989373
SNP_P4_150622_92257	NW_004516316.1	Scaffold984	92257	AA	TT	1946989375
SNP_P4_150623_94147	NW_004516316.1	Scaffold984	94147	AA	CC	1946989377
SNP_P4_150624_94183	NW_004516316.1	Scaffold984	94183	GG	CC	1946989379
SNP_P4_150625_94216	NW_004516316.1	Scaffold984	94216	GG	AA	1946989381
SNP_P4_150626_94354	NW_004516316.1	Scaffold984	94354	AA	CC	1946989383
SNP_P4_150627_109359	NW_004516316.1	Scaffold984	109359	GG	AA	1946989385
SNP_P4_150628_119093	NW_004516316.1	Scaffold984	119093	TT	CC	1946989387
SNP_P4_150629_119106	NW_004516316.1	Scaffold984	119106	AA	TT	1946989389
SNP_P4_150630_128354	NW_004516316.1	Scaffold984	128354	TT	GG	1946989390
SNP_P4_150631_128365	NW_004516316.1	Scaffold984	128365	TT	AA	1946989392
SNP_P4_150632_128370	NW_004516316.1	Scaffold984	128370	TT	GG	1946989394
SNP_P4_150633_129952	NW_004516316.1	Scaffold984	129952	CC	AA	1946989396
SNP_P4_150634_130637	NW_004516316.1	Scaffold984	130637	GG	AA	1946989398
SNP_P4_150635_130886	NW_004516316.1	Scaffold984	130886	AA	TT	1946989400

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_150637_132637	NW_004516316.1	Scaffold984	132637	AA	GG	1946989404
SNP_P4_150638_132677	NW_004516316.1	Scaffold984	132677	CC	GG	1946989406
SNP_P4_150639_132679	NW_004516316.1	Scaffold984	132679	TT	GG	1946989408
SNP_P4_150640_132680	NW_004516316.1	Scaffold984	132680	GG	TT	1946989410
SNP_P4_150641_132685	NW_004516316.1	Scaffold984	132685	TT	AA	1946989412
SNP_P4_150642_136987	NW_004516316.1	Scaffold984	136987	TT	CC	1946989415
SNP_P4_150644_146010	NW_004516316.1	Scaffold984	146010	AA	GG	1946989417
SNP_P4_150645_146017	NW_004516316.1	Scaffold984	146017	CC	TT	1946989420
SNP_P4_150646_146029	NW_004516316.1	Scaffold984	146029	TT	CC	1946989422
SNP_P4_150647_146030	NW_004516316.1	Scaffold984	146030	CC	TT	1946989425
SNP_P4_150648_149799	NW_004516316.1	Scaffold984	149799	TT	CC	1946989427
SNP_P4_150649_157208	NW_004516316.1	Scaffold984	157208	TT	CC	1946989429
SNP_P4_150650_161437	NW_004516316.1	Scaffold984	161437	GG	CC	1946989431
SNP_P4_150651_163034	NW_004516316.1	Scaffold984	163034	TT	CC	1946989433
SNP_P4_150653_3131	NW_004516317.1	Scaffold986	3131	TT	AA	1946989435
SNP_P4_150655_16851	NW_004516317.1	Scaffold986	16851	TT	AA	1946989437
SNP_P4_150656_16875	NW_004516317.1	Scaffold986	16875	CC	TT	1946989439
SNP_P4_150657_16878	NW_004516317.1	Scaffold986	16878	GG	AA	1946989441
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SNP_P4_150659_16910	NW_004516317.1	Scaffold986	16910	GG	AA	1946989445
SNP_P4_150660_16932	NW_004516317.1	Scaffold986	16932	GG	AA	1946989447
SNP_P4_150661_16942	NW_004516317.1	Scaffold986	16942	GG	CC	1946989449
SNP_P4_150662_16955	NW_004516317.1	Scaffold986	16955	TT	AA	1946989451
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SNP_P4_150664_16979	NW_004516317.1	Scaffold986	16979	TT	CC	1946989455
SNP_P4_150665_16984	NW_004516317.1	Scaffold986	16984	CC	AA	1946989457
SNP_P4_150666_17016	NW_004516317.1	Scaffold986	17016	TT	CC	1946989459
SNP_P4_150667_17033	NW_004516317.1	Scaffold986	17033	CC	TT	1946989461
SNP_P4_150668_17068	NW_004516317.1	Scaffold986	17068	GG	AA	1946989463
SNP_P4_150669_17069	NW_004516317.1	Scaffold986	17069	AA	GG	1946989465
SNP_P4_150670_17147	NW_004516317.1	Scaffold986	17147	TT	CC	1946989467
SNP_P4_150671_17148	NW_004516317.1	Scaffold986	17148	GG	AA	1946989469
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SNP_P4_150673_18350	NW_004516317.1	Scaffold986	18350	AA	TT	1946989473
SNP_P4_150674_21484	NW_004516317.1	Scaffold986	21484	CC	TT	1946989475
SNP_P4_150675_21485	NW_004516317.1	Scaffold986	21485	AA	GG	1946989477
SNP_P4_150676_22061	NW_004516317.1	Scaffold986	22061	TT	AA	1946989480
SNP_P4_150677_23199	NW_004516317.1	Scaffold986	23199	AA	TT	1946989481
SNP_P4_150678_23616	NW_004516317.1	Scaffold986	23616	TT	AA	1946989482
SNP_P4_150679_23650	NW_004516317.1	Scaffold986	23650	TT	GG	1946989483
SNP_P4_150680_23662	NW_004516317.1	Scaffold986	23662	CC	AA	1946989484

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_150683_23759	NW_004516317.1	Scaffold986	23759	TT	CC	1946989487
SNP_P4_150684_24070	NW_004516317.1	Scaffold986	24070	TT	CC	1946989489
SNP_P4_150686_35056	NW_004516317.1	Scaffold986	35056	CC	GG	1946989491
SNP_P4_150687_36442	NW_004516317.1	Scaffold986	36442	GG	AA	1946989493
SNP_P4_150688_38117	NW_004516317.1	Scaffold986	38117	CC	GG	1946989495
SNP_P4_150689_39146	NW_004516317.1	Scaffold986	39146	TT	CC	1946989497
SNP_P4_150690_39427	NW_004516317.1	Scaffold986	39427	AA	GG	1946989499
SNP_P4_150691_39725	NW_004516317.1	Scaffold986	39725	TT	GG	1946989501
SNP_P4_150692_39811	NW_004516317.1	Scaffold986	39811	TT	AA	1946989503
SNP_P4_150693_79	NW_004516318.1	Scaffold991	79	TT	CC	1946989505
SNP_P4_150694_89	NW_004516318.1	Scaffold991	89	TT	GG	1946989507
SNP_P4_150695_126	NW_004516318.1	Scaffold991	126	TT	CC	1946989509
SNP_P4_150696_152	NW_004516318.1	Scaffold991	152	CC	TT	1946989511
SNP_P4_150697_181	NW_004516318.1	Scaffold991	181	TT	GG	1946989513
SNP_P4_150698_12284	NW_004516318.1	Scaffold991	12284	TT	GG	1946989515
SNP_P4_150699_13755	NW_004516318.1	Scaffold991	13755	CC	TT	1946989517
SNP_P4_150700_13776	NW_004516318.1	Scaffold991	13776	TT	GG	1946989519
SNP_P4_150701_13787	NW_004516318.1	Scaffold991	13787	AA	TT	1946989521
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SNP_P4_150703_885	NW_004516319.1	Scaffold992	885	AA	GG	1946989526
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SNP_P4_150706_8073	NW_004516319.1	Scaffold992	8073	AA	TT	1946989530
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SNP_P4_150710_27591	NW_004516319.1	Scaffold992	27591	AA	GG	1946989538
SNP_P4_150711_28205	NW_004516319.1	Scaffold992	28205	AA	CC	1946989540
SNP_P4_150712_32767	NW_004516319.1	Scaffold992	32767	CC	TT	1946989542
SNP_P4_150713_32808	NW_004516319.1	Scaffold992	32808	AA	GG	1946989544
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SNP_P4_150715_33099	NW_004516319.1	Scaffold992	33099	TT	CC	1946989548
SNP_P4_150716_33126	NW_004516319.1	Scaffold992	33126	TT	CC	1946989550
SNP_P4_150717_33132	NW_004516319.1	Scaffold992	33132	GG	AA	1946989552
SNP_P4_150718_33147	NW_004516319.1	Scaffold992	33147	AA	GG	1946989554
SNP_P4_150720_36760	NW_004516319.1	Scaffold992	36760	GG	TT	1946989556
SNP_P4_150721_36970	NW_004516319.1	Scaffold992	36970	CC	TT	1946989558
SNP_P4_150722_37007	NW_004516319.1	Scaffold992	37007	TT	CC	1946989560
SNP_P4_150723_37561	NW_004516319.1	Scaffold992	37561	GG	TT	1946989562
SNP_P4_150724_37591	NW_004516319.1	Scaffold992	37591	AA	TT	1946989564
SNP_P4_150725_37592	NW_004516319.1	Scaffold992	37592	CC	AA	1946989566

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_150731_38177	NW_004516319.1	Scaffold992	38177	CC	AA	1946989572
SNP_P4_150732_40028	NW_004516319.1	Scaffold992	40028	AA	GG	1946989574
SNP_P4_150733_40045	NW_004516319.1	Scaffold992	40045	CC	TT	1946989576
SNP_P4_150734_40052	NW_004516319.1	Scaffold992	40052	GG	AA	1946989578
SNP_P4_150736_40220	NW_004516319.1	Scaffold992	40220	TT	AA	1946989580
SNP_P4_150737_40243	NW_004516319.1	Scaffold992	40243	AA	CC	1946989582
SNP_P4_150738_40259	NW_004516319.1	Scaffold992	40259	CC	TT	1946989584
SNP_P4_150739_40336	NW_004516319.1	Scaffold992	40336	CC	GG	1946989586
SNP_P4_150740_40379	NW_004516319.1	Scaffold992	40379	AA	GG	1946989588
SNP_P4_150741_40387	NW_004516319.1	Scaffold992	40387	AA	CC	1946989590
SNP_P4_150742_40401	NW_004516319.1	Scaffold992	40401	AA	TT	1946989591
SNP_P4_150743_40411	NW_004516319.1	Scaffold992	40411	TT	GG	1946989593
SNP_P4_150744_40434	NW_004516319.1	Scaffold992	40434	GG	CC	1946989595
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SNP_P4_150747_40536	NW_004516319.1	Scaffold992	40536	AA	GG	1946989599
SNP_P4_150748_40566	NW_004516319.1	Scaffold992	40566	CC	GG	1946989601
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SNP_P4_150763_42349	NW_004516319.1	Scaffold992	42349	CC	TT	1946989625
SNP_P4_150764_42353	NW_004516319.1	Scaffold992	42353	CC	AA	1946989627
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SNP_P4_150766_42398	NW_004516319.1	Scaffold992	42398	TT	AA	1946989631
SNP_P4_150767_42406	NW_004516319.1	Scaffold992	42406	TT	CC	1946989633
SNP_P4_150768_42505	NW_004516319.1	Scaffold992	42505	GG	AA	1946989635
SNP_P4_150769_42543	NW_004516319.1	Scaffold992	42543	AA	TT	1946989637
SNP_P4_150770_42549	NW_004516319.1	Scaffold992	42549	TT	GG	1946989639
SNP_P4_150771_42551	NW_004516319.1	Scaffold992	42551	TT	GG	1946989641
SNP_P4_150772_42666	NW_004516319.1	Scaffold992	42666	CC	TT	1946989643
SNP_P4_150773_43973	NW_004516319.1	Scaffold992	43973	GG	AA	1946989645
SNP_P4_150774_44659	NW_004516319.1	Scaffold992	44659	TT	AA	1946989647
SNP_P4_150775_44699	NW_004516319.1	Scaffold992	44699	AA	GG	1946989649

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_150778_48050	NW_004516319.1	Scaffold992	48050	AA	CC	1946989655
SNP_P4_150779_48052	NW_004516319.1	Scaffold992	48052	AA	TT	1946989657
SNP_P4_150780_48055	NW_004516319.1	Scaffold992	48055	AA	GG	1946989659
SNP_P4_150781_48057	NW_004516319.1	Scaffold992	48057	AA	TT	1946989661
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SNP_P4_150783_48531	NW_004516319.1	Scaffold992	48531	GG	AA	1946989665
SNP_P4_150784_49018	NW_004516319.1	Scaffold992	49018	GG	AA	1946989667
SNP_P4_150785_49467	NW_004516319.1	Scaffold992	49467	AA	CC	1946989669
SNP_P4_150786_49520	NW_004516319.1	Scaffold992	49520	CC	AA	1946989671
SNP_P4_150787_49525	NW_004516319.1	Scaffold992	49525	TT	CC	1946989673
SNP_P4_150788_49601	NW_004516319.1	Scaffold992	49601	GG	TT	1946989677
SNP_P4_150789_1254	NW_004516320.1	Scaffold993	1254	AA	GG	1946989682
SNP_P4_150790_1305	NW_004516320.1	Scaffold993	1305	AA	CC	1946989684
SNP_P4_150792_1567	NW_004516320.1	Scaffold993	1567	AA	CC	1946989687
SNP_P4_150793_16096	NW_004516321.1	Scaffold996	16096	GG	AA	1946989689
SNP_P4_150794_27194	NW_004516321.1	Scaffold996	27194	AA	GG	1946989691
SNP_P4_150795_49503	NW_004516321.1	Scaffold996	49503	GG	AA	1946989693
SNP_P4_150796_49518	NW_004516321.1	Scaffold996	49518	TT	CC	1946989695
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SNP_P4_150800_87415	NW_004516321.1	Scaffold996	87415	AA	CC	1946989703
SNP_P4_150801_87622	NW_004516321.1	Scaffold996	87622	AA	CC	1946989705
SNP_P4_150802_87701	NW_004516321.1	Scaffold996	87701	AA	GG	1946989707
SNP_P4_150803_87890	NW_004516321.1	Scaffold996	87890	AA	CC	1946989709
SNP_P4_150804_88425	NW_004516321.1	Scaffold996	88425	CC	GG	1946989711
SNP_P4_150805_88738	NW_004516321.1	Scaffold996	88738	AA	TT	1946989712
SNP_P4_150806_89170	NW_004516321.1	Scaffold996	89170	AA	GG	1946989714
SNP_P4_150807_89585	NW_004516321.1	Scaffold996	89585	CC	TT	1946989716
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SNP_P4_150814_134309	NW_004516321.1	Scaffold996	134309	CC	TT	1946989730
SNP_P4_150815_134394	NW_004516321.1	Scaffold996	134394	TT	CC	1946989732
SNP_P4_150817_142973	NW_004516321.1	Scaffold996	142973	GG	CC	1946989734
SNP_P4_150818_145501	NW_004516321.1	Scaffold996	145501	AA	GG	1946989736
SNP_P4_150819_158668	NW_004516321.1	Scaffold996	158668	CC	TT	1946989738

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_150821_180263	NW_004516321.1	Scaffold996	180263	CC	AA	1946989742
SNP_P4_150822_180333	NW_004516321.1	Scaffold996	180333	TT	CC	1946989744
SNP_P4_150823_180351	NW_004516321.1	Scaffold996	180351	GG	TT	1946989746
SNP_P4_150824_180539	NW_004516321.1	Scaffold996	180539	GG	AA	1946989748
SNP_P4_150825_192770	NW_004516321.1	Scaffold996	192770	GG	TT	1946989750
SNP_P4_150826_192778	NW_004516321.1	Scaffold996	192778	TT	AA	1946989752
SNP_P4_150827_192779	NW_004516321.1	Scaffold996	192779	CC	TT	1946989754
SNP_P4_150828_192789	NW_004516321.1	Scaffold996	192789	GG	AA	1946989756
SNP_P4_150829_192833	NW_004516321.1	Scaffold996	192833	AA	GG	1946989758
SNP_P4_150830_192835	NW_004516321.1	Scaffold996	192835	AA	GG	1946989760
SNP_P4_150831_193181	NW_004516321.1	Scaffold996	193181	TT	GG	1946989762
SNP_P4_150832_193445	NW_004516321.1	Scaffold996	193445	GG	TT	1946989764
SNP_P4_150833_193455	NW_004516321.1	Scaffold996	193455	AA	GG	1946989766
SNP_P4_150834_199473	NW_004516321.1	Scaffold996	199473	CC	AA	1946989768
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SNP_P4_150836_199878	NW_004516321.1	Scaffold996	199878	AA	TT	1946989772
SNP_P4_150837_200969	NW_004516321.1	Scaffold996	200969	TT	GG	1946989774
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SNP_P4_150841_202604	NW_004516321.1	Scaffold996	202604	GG	TT	1946989780
SNP_P4_150842_202650	NW_004516321.1	Scaffold996	202650	AA	TT	1946989782
SNP_P4_150843_792	NW_004516322.1	Scaffold997	792	TT	AA	1946989784
SNP_P4_150844_2907	NW_004516322.1	Scaffold997	2907	GG	TT	1946989786
SNP_P4_150845_2979	NW_004516322.1	Scaffold997	2979	AA	GG	1946989788
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SNP_P4_150848_3025	NW_004516322.1	Scaffold997	3025	AA	GG	1946989795
SNP_P4_150849_3030	NW_004516322.1	Scaffold997	3030	GG	AA	1946989797
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SNP_P4_150853_3145	NW_004516322.1	Scaffold997	3145	TT	CC	1946989804
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SNP_P4_150856_3266	NW_004516322.1	Scaffold997	3266	CC	AA	1946989810
SNP_P4_150857_3405	NW_004516322.1	Scaffold997	3405	AA	GG	1946989812
SNP_P4_150858_12125	NW_004516322.1	Scaffold997	12125	AA	GG	1946989814
SNP_P4_150859_12161	NW_004516322.1	Scaffold997	12161	CC	AA	1946989816
SNP_P4_150860_12185	NW_004516322.1	Scaffold997	12185	AA	TT	1946989818
SNP_P4_150861_12208	NW_004516322.1	Scaffold997	12208	TT	AA	1946989820
SNP_P4_150862_12212	NW_004516322.1	Scaffold997	12212	CC	AA	1946989822
SNP_P4_150863_12239	NW_004516322.1	Scaffold997	12239	AA	GG	1946989824

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_150866_12665	NW_004516322.1	Scaffold997	12665	AA	TT	1946989830
SNP_P4_150867_12671	NW_004516322.1	Scaffold997	12671	TT	AA	1946989832
SNP_P4_150868_12764	NW_004516322.1	Scaffold997	12764	GG	CC	1946989834
SNP_P4_150869_13913	NW_004516322.1	Scaffold997	13913	AA	GG	1946989836
SNP_P4_150870_19822	NW_004516322.1	Scaffold997	19822	AA	GG	1946989838
SNP_P4_150871_1716	NW_004516323.1	Scaffold998	1716	TT	GG	1946989840
SNP_P4_150872_1891	NW_004516323.1	Scaffold998	1891	TT	AA	1946989842
SNP_P4_150873_3164	NW_004516323.1	Scaffold998	3164	AA	GG	1946989844
SNP_P4_150874_3282	NW_004516323.1	Scaffold998	3282	CC	TT	1946989846
SNP_P4_150875_23739	NW_004516324.1	Scaffold999	23739	CC	TT	1946989848
SNP_P4_150876_36687	NW_004516324.1	Scaffold999	36687	AA	GG	1946989850
SNP_P4_150877_37060	NW_004516324.1	Scaffold999	37060	GG	AA	1946989852
SNP_P4_150878_38765	NW_004516324.1	Scaffold999	38765	GG	AA	1946989854
SNP_P4_150879_67052	NW_004516324.1	Scaffold999	67052	GG	AA	1946989856
SNP_P4_150880_67492	NW_004516324.1	Scaffold999	67492	AA	GG	1946989858
SNP_P4_150881_69680	NW_004516324.1	Scaffold999	69680	GG	AA	1946989860
SNP_P4_150882_69745	NW_004516324.1	Scaffold999	69745	TT	AA	1946989862
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SNP_P4_150887_69905	NW_004516324.1	Scaffold999	69905	GG	CC	1946989872
SNP_P4_150888_69991	NW_004516324.1	Scaffold999	69991	TT	AA	1946989874
SNP_P4_150889_69996	NW_004516324.1	Scaffold999	69996	GG	AA	1946989876
SNP_P4_150890_70159	NW_004516324.1	Scaffold999	70159	GG	AA	1946989878
SNP_P4_150891_70197	NW_004516324.1	Scaffold999	70197	TT	GG	1946989880
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SNP_P4_150894_74703	NW_004516324.1	Scaffold999	74703	TT	CC	1946989886
SNP_P4_150895_74763	NW_004516324.1	Scaffold999	74763	AA	CC	1946989888
SNP_P4_150896_74983	NW_004516324.1	Scaffold999	74983	AA	CC	1946989890
SNP_P4_150897_77362	NW_004516324.1	Scaffold999	77362	TT	GG	1946989892
SNP_P4_150898_77366	NW_004516324.1	Scaffold999	77366	CC	TT	1946989894
SNP_P4_150899_82948	NW_004516324.1	Scaffold999	82948	AA	GG	1946989896
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SNP_P4_150902_89181	NW_004516324.1	Scaffold999	89181	TT	AA	1946989902
SNP_P4_150903_92947	NW_004516324.1	Scaffold999	92947	AA	GG	1946989904
SNP_P4_150904_115645	NW_004516324.1	Scaffold999	115645	CC	AA	1946989906
SNP_P4_150905_115825	NW_004516324.1	Scaffold999	115825	GG	AA	1946989908

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_150909_123838	NW_004516324.1	Scaffold999	123838	CC	TT	1946989916
SNP_P4_150911_124093	NW_004516324.1	Scaffold999	124093	CC	TT	1946989918
SNP_P4_150912_124098	NW_004516324.1	Scaffold999	124098	TT	AA	1946989920
SNP_P4_150913_127418	NW_004516324.1	Scaffold999	127418	GG	CC	1946989922
SNP_P4_150914_127438	NW_004516324.1	Scaffold999	127438	CC	GG	1946989924
SNP_P4_150915_127441	NW_004516324.1	Scaffold999	127441	TT	CC	1946989926
SNP_P4_150916_127619	NW_004516324.1	Scaffold999	127619	TT	AA	1946989928
SNP_P4_150917_127648	NW_004516324.1	Scaffold999	127648	AA	TT	1946989930
SNP_P4_150918_130314	NW_004516324.1	Scaffold999	130314	AA	TT	1946989933
SNP_P4_150919_130323	NW_004516324.1	Scaffold999	130323	AA	CC	1946989935
SNP_P4_150920_130329	NW_004516324.1	Scaffold999	130329	GG	AA	1946989937
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SNP_P4_150924_130564	NW_004516324.1	Scaffold999	130564	GG	AA	1946989943
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SNP_P4_150932_134091	NW_004516324.1	Scaffold999	134091	CC	AA	1946989958
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SNP_P4_150934_134122	NW_004516324.1	Scaffold999	134122	CC	TT	1946989962
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SNP_P4_150936_148285	NW_004516324.1	Scaffold999	148285	AA	CC	1946989967
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SNP_P4_150940_153195	NW_004516324.1	Scaffold999	153195	CC	TT	1946989975
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SNP_P4_150946_9480	NW_004516326.1	Scaffold1003	9480	TT	AA	1946989987
SNP_P4_150947_11885	NW_004516326.1	Scaffold1003	11885	AA	GG	1946989989
SNP_P4_150948_12442	NW_004516326.1	Scaffold1003	12442	CC	AA	1946989991
SNP_P4_150949_12752	NW_004516326.1	Scaffold1003	12752	AA	GG	1946989993
SNP_P4_150950_12790	NW_004516326.1	Scaffold1003	12790	AA	GG	1946989995

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_150952_12981	NW_004516326.1	Scaffold1003	12981	GG	CC	1946989999
SNP_P4_150953_13049	NW_004516326.1	Scaffold1003	13049	TT	CC	1946990001
SNP_P4_150954_13196	NW_004516326.1	Scaffold1003	13196	AA	GG	1946990003
SNP_P4_150955_13541	NW_004516326.1	Scaffold1003	13541	AA	GG	1946990005
SNP_P4_150957_13662	NW_004516326.1	Scaffold1003	13662	AA	CC	1946990007
SNP_P4_150958_13668	NW_004516326.1	Scaffold1003	13668	TT	AA	1946990009
SNP_P4_150959_13689	NW_004516326.1	Scaffold1003	13689	TT	CC	1946990011
SNP_P4_150960_13886	NW_004516326.1	Scaffold1003	13886	AA	GG	1946990013
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SNP_P4_150962_13949	NW_004516326.1	Scaffold1003	13949	TT	GG	1946990017
SNP_P4_150963_13966	NW_004516326.1	Scaffold1003	13966	AA	CC	1946990019
SNP_P4_150964_14066	NW_004516326.1	Scaffold1003	14066	CC	AA	1946990020
SNP_P4_150965_14134	NW_004516326.1	Scaffold1003	14134	CC	GG	1946990022
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SNP_P4_150981_47721	NW_004516329.1	Scaffold1006	47721	GG	AA	1946990048
SNP_P4_150982_59119	NW_004516329.1	Scaffold1006	59119	AA	CC	1946990050
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SNP_P4_150989_68014	NW_004516329.1	Scaffold1006	68014	AA	GG	1946990064
SNP_P4_150990_68052	NW_004516329.1	Scaffold1006	68052	GG	AA	1946990065
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SNP_P4_150997_109678	NW_004516329.1	Scaffold1006	109678	AA	TT	1946990073
SNP_P4_150998_109765	NW_004516329.1	Scaffold1006	109765	TT	CC	1946990075
SNP_P4_150999_109793	NW_004516329.1	Scaffold1006	109793	CC	TT	1946990077

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_151001_109836	NW_004516329.1	Scaffold1006	109836	GG	AA	1946990081
SNP_P4_151002_109878	NW_004516329.1	Scaffold1006	109878	TT	GG	1946990083
SNP_P4_151003_109912	NW_004516329.1	Scaffold1006	109912	CC	TT	1946990085
SNP_P4_151004_109920	NW_004516329.1	Scaffold1006	109920	TT	CC	1946990087
SNP_P4_151006_126249	NW_004516329.1	Scaffold1006	126249	TT	CC	1946990089
SNP_P4_151007_126274	NW_004516329.1	Scaffold1006	126274	TT	AA	1946990091
SNP_P4_151008_126420	NW_004516329.1	Scaffold1006	126420	CC	TT	1946990093
SNP_P4_151009_126545	NW_004516329.1	Scaffold1006	126545	TT	CC	1946990095
SNP_P4_151010_126547	NW_004516329.1	Scaffold1006	126547	GG	CC	1946990097
SNP_P4_151011_126641	NW_004516329.1	Scaffold1006	126641	TT	CC	1946990099
SNP_P4_151012_126732	NW_004516329.1	Scaffold1006	126732	AA	GG	1946990101
SNP_P4_151013_126840	NW_004516329.1	Scaffold1006	126840	CC	TT	1946990103
SNP_P4_151014_126916	NW_004516329.1	Scaffold1006	126916	AA	TT	1946990105
SNP_P4_151015_127083	NW_004516329.1	Scaffold1006	127083	CC	TT	1946990107
SNP_P4_151016_127287	NW_004516329.1	Scaffold1006	127287	AA	CC	1946990109
SNP_P4_151017_127567	NW_004516329.1	Scaffold1006	127567	AA	GG	1946990111
SNP_P4_151018_127569	NW_004516329.1	Scaffold1006	127569	AA	GG	1946990113
SNP_P4_151019_127639	NW_004516329.1	Scaffold1006	127639	GG	AA	1946990115
SNP_P4_151020_127705	NW_004516329.1	Scaffold1006	127705	CC	TT	1946990117
SNP_P4_151021_127829	NW_004516329.1	Scaffold1006	127829	GG	TT	1946990119
SNP_P4_151022_127846	NW_004516329.1	Scaffold1006	127846	AA	TT	1946990121
SNP_P4_151023_127911	NW_004516329.1	Scaffold1006	127911	TT	CC	1946990123
SNP_P4_151024_127971	NW_004516329.1	Scaffold1006	127971	CC	AA	1946990125
SNP_P4_151025_128096	NW_004516329.1	Scaffold1006	128096	GG	TT	1946990127
SNP_P4_151026_156134	NW_004516329.1	Scaffold1006	156134	CC	TT	1946990129
SNP_P4_151027_159010	NW_004516329.1	Scaffold1006	159010	CC	AA	1946990131
SNP_P4_151028_162222	NW_004516329.1	Scaffold1006	162222	TT	CC	1946990133
SNP_P4_151029_165347	NW_004516329.1	Scaffold1006	165347	GG	TT	1946990135
SNP_P4_151030_165451	NW_004516329.1	Scaffold1006	165451	CC	TT	1946990137
SNP_P4_151031_165479	NW_004516329.1	Scaffold1006	165479	TT	CC	1946990139
SNP_P4_151032_165502	NW_004516329.1	Scaffold1006	165502	CC	AA	1946990141
SNP_P4_151033_165670	NW_004516329.1	Scaffold1006	165670	TT	CC	1946990143
SNP_P4_151034_196838	NW_004516329.1	Scaffold1006	196838	AA	GG	1946990145
SNP_P4_151035_196865	NW_004516329.1	Scaffold1006	196865	TT	CC	1946990147
SNP_P4_151036_196876	NW_004516329.1	Scaffold1006	196876	AA	GG	1946990149
SNP_P4_151037_196949	NW_004516329.1	Scaffold1006	196949	TT	GG	1946990151
SNP_P4_151038_196950	NW_004516329.1	Scaffold1006	196950	AA	GG	1946990153
SNP_P4_151039_196996	NW_004516329.1	Scaffold1006	196996	TT	CC	1946990155
SNP_P4_151040_197028	NW_004516329.1	Scaffold1006	197028	GG	AA	1946990157
SNP_P4_151041_197194	NW_004516329.1	Scaffold1006	197194	TT	CC	1946990159
SNP_P4_151043_214085	NW_004516329.1	Scaffold1006	214085	AA	TT	1946990161

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_151044_227900	NW_004516329.1	Scaffold1006	227900	TT	CC	1946990163
SNP_P4_151045_227932	NW_004516329.1	Scaffold1006	227932	GG	TT	1946990165
SNP_P4_151046_255390	NW_004516329.1	Scaffold1006	255390	AA	TT	1946990167
SNP_P4_151047_299835	NW_004516329.1	Scaffold1006	299835	AA	GG	1946990169
SNP_P4_151048_301874	NW_004516329.1	Scaffold1006	301874	GG	AA	1946990171
SNP_P4_151051_344871	NW_004516329.1	Scaffold1006	344871	CC	AA	1946990173
SNP_P4_151052_348014	NW_004516329.1	Scaffold1006	348014	AA	GG	1946990175
SNP_P4_151055_377834	NW_004516329.1	Scaffold1006	377834	TT	CC	1946990177
SNP_P4_151056_400007	NW_004516329.1	Scaffold1006	400007	CC	AA	1946990179
SNP_P4_151057_407756	NW_004516329.1	Scaffold1006	407756	GG	AA	1946990181
SNP_P4_151059_453540	NW_004516329.1	Scaffold1006	453540	TT	CC	1946990183
SNP_P4_151061_463173	NW_004516329.1	Scaffold1006	463173	TT	GG	1946990185
SNP_P4_151062_486278	NW_004516329.1	Scaffold1006	486278	AA	TT	1946990188
SNP_P4_151063_501163	NW_004516329.1	Scaffold1006	501163	TT	CC	1946990190
SNP_P4_151067_526411	NW_004516329.1	Scaffold1006	526411	TT	AA	1946990193
SNP_P4_151069_546829	NW_004516329.1	Scaffold1006	546829	AA	GG	1946990195
SNP_P4_151071_559116	NW_004516329.1	Scaffold1006	559116	AA	GG	1946990197
SNP_P4_151073_559210	NW_004516329.1	Scaffold1006	559210	CC	TT	1946990199
SNP_P4_151074_559403	NW_004516329.1	Scaffold1006	559403	AA	GG	1946990201
SNP_P4_151075_559442	NW_004516329.1	Scaffold1006	559442	GG	AA	1946990203
SNP_P4_151076_559480	NW_004516329.1	Scaffold1006	559480	GG	TT	1946990205
SNP_P4_151077_559550	NW_004516329.1	Scaffold1006	559550	TT	GG	1946990206
SNP_P4_151078_567566	NW_004516329.1	Scaffold1006	567566	GG	AA	1946990207
SNP_P4_151079_567575	NW_004516329.1	Scaffold1006	567575	CC	TT	1946990208
SNP_P4_151080_567867	NW_004516329.1	Scaffold1006	567867	TT	CC	1946990209
SNP_P4_151081_567906	NW_004516329.1	Scaffold1006	567906	AA	GG	1946990210
SNP_P4_151082_567972	NW_004516329.1	Scaffold1006	567972	GG	AA	1946990211
SNP_P4_151083_578296	NW_004516329.1	Scaffold1006	578296	TT	CC	1946990212
SNP_P4_151084_578298	NW_004516329.1	Scaffold1006	578298	AA	TT	1946990214
SNP_P4_151085_578299	NW_004516329.1	Scaffold1006	578299	TT	CC	1946990216
SNP_P4_151086_578359	NW_004516329.1	Scaffold1006	578359	GG	AA	1946990218
SNP_P4_151087_578413	NW_004516329.1	Scaffold1006	578413	CC	TT	1946990220
SNP_P4_151088_578512	NW_004516329.1	Scaffold1006	578512	GG	CC	1946990222
SNP_P4_151089_578565	NW_004516329.1	Scaffold1006	578565	CC	TT	1946990224
SNP_P4_151090_578610	NW_004516329.1	Scaffold1006	578610	GG	AA	1946990226
SNP_P4_151092_583340	NW_004516329.1	Scaffold1006	583340	GG	AA	1946990228
SNP_P4_151094_665995	NW_004516329.1	Scaffold1006	665995	AA	GG	1946990230
SNP_P4_151095_688329	NW_004516329.1	Scaffold1006	688329	CC	TT	1946990232
SNP_P4_151096_12134	NW_004516331.1	Scaffold1008	12134	CC	TT	1946990234
SNP_P4_151097_12327	NW_004516331.1	Scaffold1008	12327	AA	GG	1946990236
SNP_P4_151098_12349	NW_004516331.1	Scaffold1008	12349	TT	CC	1946990238
SNP_P4_151099_12385	NW_004516331.1	Scaffold1008	12385	CC	TT	1946990240

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_151101_12584	NW_004516331.1	Scaffold1008	12584	TT	CC	1946990244
SNP_P4_151102_12626	NW_004516331.1	Scaffold1008	12626	TT	GG	1946990246
SNP_P4_151104_12723	NW_004516331.1	Scaffold1008	12723	AA	GG	1946990248
SNP_P4_151105_12734	NW_004516331.1	Scaffold1008	12734	CC	AA	1946990250
SNP_P4_151106_13314	NW_004516331.1	Scaffold1008	13314	GG	AA	1946990252
SNP_P4_151107_13398	NW_004516331.1	Scaffold1008	13398	TT	AA	1946990254
SNP_P4_151108_13414	NW_004516331.1	Scaffold1008	13414	TT	CC	1946990257
SNP_P4_151109_13428	NW_004516331.1	Scaffold1008	13428	CC	AA	1946990259
SNP_P4_151110_13433	NW_004516331.1	Scaffold1008	13433	TT	CC	1946990261
SNP_P4_151111_14667	NW_004516331.1	Scaffold1008	14667	CC	TT	1946990263
SNP_P4_151112_14680	NW_004516331.1	Scaffold1008	14680	TT	CC	1946990265
SNP_P4_151113_14738	NW_004516331.1	Scaffold1008	14738	TT	CC	1946990267
SNP_P4_151114_14816	NW_004516331.1	Scaffold1008	14816	AA	GG	1946990269
SNP_P4_151115_19374	NW_004516331.1	Scaffold1008	19374	TT	CC	1946990272
SNP_P4_151116_20374	NW_004516331.1	Scaffold1008	20374	TT	CC	1946990274
SNP_P4_151117_20375	NW_004516331.1	Scaffold1008	20375	TT	GG	1946990276
SNP_P4_151118_22997	NW_004516331.1	Scaffold1008	22997	AA	GG	1946990278
SNP_P4_151119_23023	NW_004516331.1	Scaffold1008	23023	TT	GG	1946990280
SNP_P4_151120_39867	NW_004516331.1	Scaffold1008	39867	CC	AA	1946990282
SNP_P4_151121_42259	NW_004516331.1	Scaffold1008	42259	GG	AA	1946990284
SNP_P4_151122_42260	NW_004516331.1	Scaffold1008	42260	CC	TT	1946990286
SNP_P4_151123_42269	NW_004516331.1	Scaffold1008	42269	GG	AA	1946990288
SNP_P4_151124_42280	NW_004516331.1	Scaffold1008	42280	GG	AA	1946990290
SNP_P4_151125_42303	NW_004516331.1	Scaffold1008	42303	AA	CC	1946990293
SNP_P4_151126_42331	NW_004516331.1	Scaffold1008	42331	TT	CC	1946990295
SNP_P4_151127_42459	NW_004516331.1	Scaffold1008	42459	TT	CC	1946990297
SNP_P4_151128_42464	NW_004516331.1	Scaffold1008	42464	CC	TT	1946990299
SNP_P4_151129_42506	NW_004516331.1	Scaffold1008	42506	AA	CC	1946990301
SNP_P4_151130_42531	NW_004516331.1	Scaffold1008	42531	AA	GG	1946990303
SNP_P4_151131_42575	NW_004516331.1	Scaffold1008	42575	AA	GG	1946990305
SNP_P4_151132_42661	NW_004516331.1	Scaffold1008	42661	CC	TT	1946990307
SNP_P4_151133_42688	NW_004516331.1	Scaffold1008	42688	TT	CC	1946990309
SNP_P4_151134_42691	NW_004516331.1	Scaffold1008	42691	TT	CC	1946990311
SNP_P4_151135_42754	NW_004516331.1	Scaffold1008	42754	CC	TT	1946990313
SNP_P4_151136_42769	NW_004516331.1	Scaffold1008	42769	GG	TT	1946990315
SNP_P4_151137_42781	NW_004516331.1	Scaffold1008	42781	GG	AA	1946990317
SNP_P4_151138_42913	NW_004516331.1	Scaffold1008	42913	AA	TT	1946990319
SNP_P4_151139_49709	NW_004516331.1	Scaffold1008	49709	AA	CC	1946990321
SNP_P4_151140_51325	NW_004516331.1	Scaffold1008	51325	GG	AA	1946990323
SNP_P4_151141_51333	NW_004516331.1	Scaffold1008	51333	CC	TT	1946990325
SNP_P4_151142_51338	NW_004516331.1	Scaffold1008	51338	AA	TT	1946990327

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_151143_51347	NW_004516331.1	Scaffold1008	51347	GG	AA	1946990329
SNP_P4_151145_54397	NW_004516331.1	Scaffold1008	54397	GG	CC	1946990332
SNP_P4_151146_54398	NW_004516331.1	Scaffold1008	54398	CC	TT	1946990333
SNP_P4_151147_59822	NW_004516331.1	Scaffold1008	59822	GG	TT	1946990334
SNP_P4_151148_61567	NW_004516331.1	Scaffold1008	61567	CC	TT	1946990335
SNP_P4_151149_61681	NW_004516331.1	Scaffold1008	61681	CC	AA	1946990336
SNP_P4_151150_61891	NW_004516331.1	Scaffold1008	61891	GG	AA	1946990338
SNP_P4_151151_61912	NW_004516331.1	Scaffold1008	61912	GG	TT	1946990340
SNP_P4_151152_61975	NW_004516331.1	Scaffold1008	61975	AA	TT	1946990342
SNP_P4_151153_62025	NW_004516331.1	Scaffold1008	62025	TT	CC	1946990344
SNP_P4_151154_62043	NW_004516331.1	Scaffold1008	62043	CC	AA	1946990346
SNP_P4_151155_62058	NW_004516331.1	Scaffold1008	62058	AA	GG	1946990348
SNP_P4_151156_62077	NW_004516331.1	Scaffold1008	62077	GG	AA	1946990350
SNP_P4_151157_70146	NW_004516331.1	Scaffold1008	70146	CC	TT	1946990352
SNP_P4_151158_80685	NW_004516331.1	Scaffold1008	80685	CC	TT	1946990354
SNP_P4_151159_83271	NW_004516331.1	Scaffold1008	83271	AA	TT	1946990356
SNP_P4_151160_84601	NW_004516331.1	Scaffold1008	84601	AA	GG	1946990358
SNP_P4_151161_85780	NW_004516331.1	Scaffold1008	85780	CC	AA	1946990360
SNP_P4_151162_85784	NW_004516331.1	Scaffold1008	85784	CC	AA	1946990362
SNP_P4_151163_403	NW_004516333.1	Scaffold1010	403	AA	GG	1946990364
SNP_P4_151164_827	NW_004516333.1	Scaffold1010	827	AA	TT	1946990366
SNP_P4_151165_843	NW_004516333.1	Scaffold1010	843	TT	CC	1946990368
SNP_P4_151166_44753	NW_004516333.1	Scaffold1010	44753	AA	GG	1946990370
SNP_P4_151167_44803	NW_004516333.1	Scaffold1010	44803	AA	GG	1946990372
SNP_P4_151168_44808	NW_004516333.1	Scaffold1010	44808	GG	AA	1946990374
SNP_P4_151169_52692	NW_004516333.1	Scaffold1010	52692	TT	GG	1946990376
SNP_P4_151170_52771	NW_004516333.1	Scaffold1010	52771	TT	AA	1946990378
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SNP_P4_151176_53187	NW_004516333.1	Scaffold1010	53187	GG	AA	1946990388
SNP_P4_151177_82409	NW_004516333.1	Scaffold1010	82409	TT	AA	1946990390
SNP_P4_151178_83449	NW_004516333.1	Scaffold1010	83449	GG	AA	1946990392
SNP_P4_151179_93903	NW_004516333.1	Scaffold1010	93903	TT	CC	1946990394
SNP_P4_151180_94219	NW_004516333.1	Scaffold1010	94219	TT	GG	1946990396
SNP_P4_151181_111983	NW_004516333.1	Scaffold1010	111983	AA	CC	1946990398
SNP_P4_151182_111985	NW_004516333.1	Scaffold1010	111985	AA	CC	1946990400
SNP_P4_151183_143641	NW_004516333.1	Scaffold1010	143641	CC	TT	1946990402
SNP_P4_151185_154769	NW_004516333.1	Scaffold1010	154769	GG	AA	1946990404
SNP_P4_151186_154863	NW_004516333.1	Scaffold1010	154863	GG	AA	1946990406
SNP_P4_151187_155054	NW_004516333.1	Scaffold1010	155054	AA	CC	1946990408

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_151189_155119	NW_004516333.1	Scaffold1010	155119	CC	TT	1946990412
SNP_P4_151190_155352	NW_004516333.1	Scaffold1010	155352	GG	AA	1946990414
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SNP_P4_151193_155534	NW_004516333.1	Scaffold1010	155534	AA	CC	1946990418
SNP_P4_151194_155704	NW_004516333.1	Scaffold1010	155704	TT	AA	1946990420
SNP_P4_151195_155720	NW_004516333.1	Scaffold1010	155720	CC	TT	1946990422
SNP_P4_151196_155799	NW_004516333.1	Scaffold1010	155799	CC	TT	1946990424
SNP_P4_151197_158094	NW_004516333.1	Scaffold1010	158094	TT	CC	1946990426
SNP_P4_151198_158096	NW_004516333.1	Scaffold1010	158096	GG	AA	1946990428
SNP_P4_151199_158122	NW_004516333.1	Scaffold1010	158122	GG	CC	1946990429
SNP_P4_151200_158198	NW_004516333.1	Scaffold1010	158198	AA	CC	1946990430
SNP_P4_151201_160563	NW_004516333.1	Scaffold1010	160563	TT	CC	1946990431
SNP_P4_151202_160631	NW_004516333.1	Scaffold1010	160631	GG	AA	1946990432
SNP_P4_151203_160707	NW_004516333.1	Scaffold1010	160707	TT	GG	1946990434
SNP_P4_151204_161192	NW_004516333.1	Scaffold1010	161192	AA	GG	1946990436
SNP_P4_151205_161198	NW_004516333.1	Scaffold1010	161198	TT	CC	1946990438
SNP_P4_151206_161249	NW_004516333.1	Scaffold1010	161249	AA	GG	1946990439
SNP_P4_151208_51411	NW_004516335.1	Scaffold1013	51411	GG	AA	1946990441
SNP_P4_151209_61008	NW_004516335.1	Scaffold1013	61008	AA	TT	1946990443
SNP_P4_151210_86406	NW_004516335.1	Scaffold1013	86406	AA	GG	1946990445
SNP_P4_151211_98414	NW_004516335.1	Scaffold1013	98414	AA	GG	1946990447
SNP_P4_151212_98614	NW_004516335.1	Scaffold1013	98614	TT	GG	1946990449
SNP_P4_151213_98616	NW_004516335.1	Scaffold1013	98616	AA	TT	1946990451
SNP_P4_151214_365	NW_004516337.1	Scaffold1017	365	AA	TT	1946990453
SNP_P4_151215_9466	NW_004516337.1	Scaffold1017	9466	TT	CC	1946990455
SNP_P4_151216_10662	NW_004516337.1	Scaffold1017	10662	CC	AA	1946990457
SNP_P4_151217_10731	NW_004516337.1	Scaffold1017	10731	TT	CC	1946990459
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SNP_P4_151220_12790	NW_004516337.1	Scaffold1017	12790	GG	AA	1946990463
SNP_P4_151222_12806	NW_004516337.1	Scaffold1017	12806	AA	CC	1946990465
SNP_P4_151223_12846	NW_004516337.1	Scaffold1017	12846	CC	TT	1946990467
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SNP_P4_151225_12916	NW_004516337.1	Scaffold1017	12916	GG	AA	1946990471
SNP_P4_151226_12929	NW_004516337.1	Scaffold1017	12929	CC	AA	1946990473
SNP_P4_151227_12931	NW_004516337.1	Scaffold1017	12931	TT	CC	1946990475
SNP_P4_151228_13050	NW_004516337.1	Scaffold1017	13050	GG	CC	1946990477
SNP_P4_151229_13051	NW_004516337.1	Scaffold1017	13051	CC	TT	1946990479
SNP_P4_151230_13067	NW_004516337.1	Scaffold1017	13067	TT	CC	1946990481
SNP_P4_151231_13129	NW_004516337.1	Scaffold1017	13129	TT	GG	1946990483
SNP_P4_151232_13136	NW_004516337.1	Scaffold1017	13136	AA	TT	1946990485
SNP_P4_151233_13143	NW_004516337.1	Scaffold1017	13143	CC	TT	1946990487

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_151234_13449	NW_004516337.1	Scaffold1017	13449	GG	AA	1946990489
SNP_P4_151235_13532	NW_004516337.1	Scaffold1017	13532	AA	CC	1946990491
SNP_P4_151236_13634	NW_004516337.1	Scaffold1017	13634	TT	AA	1946990493
SNP_P4_151237_13776	NW_004516337.1	Scaffold1017	13776	GG	CC	1946990495
SNP_P4_151238_13811	NW_004516337.1	Scaffold1017	13811	CC	TT	1946990497
SNP_P4_151239_13831	NW_004516337.1	Scaffold1017	13831	GG	TT	1946990499
SNP_P4_151240_13881	NW_004516337.1	Scaffold1017	13881	GG	AA	1946990501
SNP_P4_151241_13984	NW_004516337.1	Scaffold1017	13984	TT	CC	1946990503
SNP_P4_151242_14007	NW_004516337.1	Scaffold1017	14007	CC	TT	1946990505
SNP_P4_151243_14067	NW_004516337.1	Scaffold1017	14067	CC	TT	1946990507
SNP_P4_151244_14106	NW_004516337.1	Scaffold1017	14106	TT	CC	1946990509
SNP_P4_151245_14167	NW_004516337.1	Scaffold1017	14167	CC	TT	1946990511
SNP_P4_151246_14272	NW_004516337.1	Scaffold1017	14272	GG	AA	1946990513
SNP_P4_151247_14304	NW_004516337.1	Scaffold1017	14304	TT	CC	1946990515
SNP_P4_151248_19303	NW_004516337.1	Scaffold1017	19303	CC	AA	1946990517
SNP_P4_151249_19413	NW_004516337.1	Scaffold1017	19413	GG	AA	1946990519
SNP_P4_151250_19440	NW_004516337.1	Scaffold1017	19440	TT	CC	1946990521
SNP_P4_151251_19464	NW_004516337.1	Scaffold1017	19464	GG	TT	1946990523
SNP_P4_151252_19516	NW_004516337.1	Scaffold1017	19516	CC	GG	1946990525
SNP_P4_151253_19557	NW_004516337.1	Scaffold1017	19557	TT	GG	1946990527
SNP_P4_151254_19577	NW_004516337.1	Scaffold1017	19577	TT	GG	1946990530
SNP_P4_151255_19621	NW_004516337.1	Scaffold1017	19621	TT	CC	1946990532
SNP_P4_151256_19623	NW_004516337.1	Scaffold1017	19623	GG	AA	1946990534
SNP_P4_151257_19642	NW_004516337.1	Scaffold1017	19642	CC	AA	1946990536
SNP_P4_151258_19717	NW_004516337.1	Scaffold1017	19717	CC	AA	1946990538
SNP_P4_151259_19925	NW_004516337.1	Scaffold1017	19925	AA	CC	1946990540
SNP_P4_151260_20584	NW_004516337.1	Scaffold1017	20584	CC	TT	1946990542
SNP_P4_151261_20912	NW_004516337.1	Scaffold1017	20912	AA	CC	1946990544
SNP_P4_151262_21046	NW_004516337.1	Scaffold1017	21046	TT	CC	1946990546
SNP_P4_151263_24658	NW_004516337.1	Scaffold1017	24658	GG	AA	1946990548
SNP_P4_151264_26988	NW_004516337.1	Scaffold1017	26988	CC	TT	1946990550
SNP_P4_151265_27209	NW_004516337.1	Scaffold1017	27209	CC	TT	1946990552
SNP_P4_151266_27213	NW_004516337.1	Scaffold1017	27213	TT	CC	1946990554
SNP_P4_151267_28022	NW_004516337.1	Scaffold1017	28022	GG	AA	1946990556
SNP_P4_151268_29615	NW_004516337.1	Scaffold1017	29615	TT	AA	1946990558
SNP_P4_151269_29649	NW_004516337.1	Scaffold1017	29649	CC	GG	1946990560
SNP_P4_151270_29722	NW_004516337.1	Scaffold1017	29722	CC	TT	1946990562
SNP_P4_151271_29731	NW_004516337.1	Scaffold1017	29731	GG	TT	1946990564
SNP_P4_151272_29737	NW_004516337.1	Scaffold1017	29737	AA	GG	1946990566
SNP_P4_151273_29752	NW_004516337.1	Scaffold1017	29752	TT	AA	1946990568
SNP_P4_151274_29947	NW_004516337.1	Scaffold1017	29947	CC	AA	1946990570
SNP_P4_151275_30015	NW_004516337.1	Scaffold1017	30015	AA	GG	1946990572

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_151277_30094	NW_004516337.1	Scaffold1017	30094	AA	TT	1946990576
SNP_P4_151278_30266	NW_004516337.1	Scaffold1017	30266	AA	TT	1946990578
SNP_P4_151279_30320	NW_004516337.1	Scaffold1017	30320	CC	GG	1946990580
SNP_P4_151280_30696	NW_004516337.1	Scaffold1017	30696	CC	TT	1946990582
SNP_P4_151281_32183	NW_004516337.1	Scaffold1017	32183	GG	CC	1946990584
SNP_P4_151282_32218	NW_004516337.1	Scaffold1017	32218	GG	AA	1946990586
SNP_P4_151283_32223	NW_004516337.1	Scaffold1017	32223	TT	AA	1946990588
SNP_P4_151284_32306	NW_004516337.1	Scaffold1017	32306	CC	TT	1946990590
SNP_P4_151285_32432	NW_004516337.1	Scaffold1017	32432	CC	TT	1946990592
SNP_P4_151286_32450	NW_004516337.1	Scaffold1017	32450	GG	AA	1946990594
SNP_P4_151287_32499	NW_004516337.1	Scaffold1017	32499	TT	CC	1946990596
SNP_P4_151288_32500	NW_004516337.1	Scaffold1017	32500	AA	GG	1946990598
SNP_P4_151289_32501	NW_004516337.1	Scaffold1017	32501	AA	TT	1946990600
SNP_P4_151290_32922	NW_004516337.1	Scaffold1017	32922	TT	CC	1946990602
SNP_P4_151291_38128	NW_004516337.1	Scaffold1017	38128	CC	TT	1946990604
SNP_P4_151292_38500	NW_004516337.1	Scaffold1017	38500	CC	GG	1946990606
SNP_P4_151293_38536	NW_004516337.1	Scaffold1017	38536	AA	CC	1946990608
SNP_P4_151294_38563	NW_004516337.1	Scaffold1017	38563	CC	AA	1946990610
SNP_P4_151295_38578	NW_004516337.1	Scaffold1017	38578	GG	AA	1946990612
SNP_P4_151296_38606	NW_004516337.1	Scaffold1017	38606	GG	AA	1946990614
SNP_P4_151297_38728	NW_004516337.1	Scaffold1017	38728	AA	CC	1946990616
SNP_P4_151298_38729	NW_004516337.1	Scaffold1017	38729	TT	AA	1946990618
SNP_P4_151299_39022	NW_004516337.1	Scaffold1017	39022	CC	TT	1946990620
SNP_P4_151300_39959	NW_004516337.1	Scaffold1017	39959	CC	AA	1946990622
SNP_P4_151301_39993	NW_004516337.1	Scaffold1017	39993	GG	CC	1946990624
SNP_P4_151302_40017	NW_004516337.1	Scaffold1017	40017	AA	GG	1946990626
SNP_P4_151303_40479	NW_004516337.1	Scaffold1017	40479	GG	AA	1946990628
SNP_P4_151304_42402	NW_004516337.1	Scaffold1017	42402	GG	AA	1946990630
SNP_P4_151305_42450	NW_004516337.1	Scaffold1017	42450	AA	TT	1946990632
SNP_P4_151306_42574	NW_004516337.1	Scaffold1017	42574	GG	AA	1946990634
SNP_P4_151307_42609	NW_004516337.1	Scaffold1017	42609	CC	TT	1946990636
SNP_P4_151308_42674	NW_004516337.1	Scaffold1017	42674	TT	AA	1946990638
SNP_P4_151309_42727	NW_004516337.1	Scaffold1017	42727	GG	CC	1946990640
SNP_P4_151310_42773	NW_004516337.1	Scaffold1017	42773	AA	TT	1946990642
SNP_P4_151311_42864	NW_004516337.1	Scaffold1017	42864	TT	AA	1946990644
SNP_P4_151312_43324	NW_004516337.1	Scaffold1017	43324	AA	TT	1946990646
SNP_P4_151313_43331	NW_004516337.1	Scaffold1017	43331	AA	GG	1946990648
SNP_P4_151314_43334	NW_004516337.1	Scaffold1017	43334	AA	GG	1946990650
SNP_P4_151315_43450	NW_004516337.1	Scaffold1017	43450	CC	TT	1946990652
SNP_P4_151316_43557	NW_004516337.1	Scaffold1017	43557	CC	GG	1946990654
SNP_P4_151317_43728	NW_004516337.1	Scaffold1017	43728	AA	GG	1946990656

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_151319_49976	NW_004516337.1	Scaffold1017	49976	AA	GG	1946990660
SNP_P4_151320_49998	NW_004516337.1	Scaffold1017	49998	TT	AA	1946990662
SNP_P4_151321_50010	NW_004516337.1	Scaffold1017	50010	GG	CC	1946990664
SNP_P4_151322_50023	NW_004516337.1	Scaffold1017	50023	CC	TT	1946990666
SNP_P4_151323_50032	NW_004516337.1	Scaffold1017	50032	CC	TT	1946990668
SNP_P4_151324_50381	NW_004516337.1	Scaffold1017	50381	CC	TT	1946990670
SNP_P4_151325_767	NW_004516338.1	Scaffold1020	767	AA	GG	1946990672
SNP_P4_151326_1204	NW_004516338.1	Scaffold1020	1204	TT	CC	1946990674
SNP_P4_151327_1206	NW_004516338.1	Scaffold1020	1206	GG	CC	1946990676
SNP_P4_151328_1225	NW_004516338.1	Scaffold1020	1225	GG	CC	1946990678
SNP_P4_151329_1351	NW_004516338.1	Scaffold1020	1351	GG	AA	1946990680
SNP_P4_151330_1372	NW_004516338.1	Scaffold1020	1372	AA	GG	1946990682
SNP_P4_151331_1374	NW_004516338.1	Scaffold1020	1374	GG	AA	1946990684
SNP_P4_151332_1402	NW_004516338.1	Scaffold1020	1402	AA	GG	1946990686
SNP_P4_151333_1572	NW_004516338.1	Scaffold1020	1572	AA	GG	1946990688
SNP_P4_151334_1623	NW_004516338.1	Scaffold1020	1623	AA	GG	1946990690
SNP_P4_151335_1785	NW_004516338.1	Scaffold1020	1785	AA	CC	1946990692
SNP_P4_151336_1813	NW_004516338.1	Scaffold1020	1813	GG	AA	1946990694
SNP_P4_151337_2566	NW_004516338.1	Scaffold1020	2566	GG	AA	1946990696
SNP_P4_151338_21967	NW_004516338.1	Scaffold1020	21967	GG	CC	1946990698
SNP_P4_151339_51048	NW_004516338.1	Scaffold1020	51048	CC	TT	1946990700
SNP_P4_151340_51367	NW_004516338.1	Scaffold1020	51367	TT	CC	1946990702
SNP_P4_151341_52745	NW_004516338.1	Scaffold1020	52745	TT	CC	1946990704
SNP_P4_151343_72207	NW_004516338.1	Scaffold1020	72207	AA	TT	1946990706
SNP_P4_151344_72535	NW_004516338.1	Scaffold1020	72535	CC	AA	1946990708
SNP_P4_151345_72661	NW_004516338.1	Scaffold1020	72661	TT	CC	1946990710
SNP_P4_151346_72738	NW_004516338.1	Scaffold1020	72738	CC	TT	1946990712
SNP_P4_151347_72750	NW_004516338.1	Scaffold1020	72750	CC	GG	1946990714
SNP_P4_151348_91580	NW_004516338.1	Scaffold1020	91580	AA	CC	1946990716
SNP_P4_151349_93302	NW_004516338.1	Scaffold1020	93302	GG	AA	1946990718
SNP_P4_151350_93693	NW_004516338.1	Scaffold1020	93693	AA	GG	1946990720
SNP_P4_151351_93701	NW_004516338.1	Scaffold1020	93701	CC	TT	1946990722
SNP_P4_151352_93713	NW_004516338.1	Scaffold1020	93713	AA	GG	1946990724
SNP_P4_151353_93743	NW_004516338.1	Scaffold1020	93743	GG	AA	1946990726
SNP_P4_151354_123859	NW_004516338.1	Scaffold1020	123859	TT	CC	1946990728
SNP_P4_151355_124667	NW_004516338.1	Scaffold1020	124667	AA	TT	1946990730
SNP_P4_151356_125524	NW_004516338.1	Scaffold1020	125524	AA	GG	1946990732
SNP_P4_151357_125525	NW_004516338.1	Scaffold1020	125525	GG	AA	1946990734
SNP_P4_151358_125600	NW_004516338.1	Scaffold1020	125600	TT	CC	1946990736
SNP_P4_151359_127807	NW_004516338.1	Scaffold1020	127807	TT	CC	1946990738
SNP_P4_151360_127815	NW_004516338.1	Scaffold1020	127815	TT	CC	1946990740

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_151362_127825	NW_004516338.1	Scaffold1020	127825	TT	CC	1946990744
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SNP_P4_151364_127855	NW_004516338.1	Scaffold1020	127855	CC	TT	1946990749
SNP_P4_151365_127864	NW_004516338.1	Scaffold1020	127864	GG	AA	1946990751
SNP_P4_151366_127877	NW_004516338.1	Scaffold1020	127877	CC	TT	1946990753
SNP_P4_151367_127879	NW_004516338.1	Scaffold1020	127879	TT	AA	1946990755
SNP_P4_151368_158475	NW_004516338.1	Scaffold1020	158475	CC	AA	1946990757
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SNP_P4_151370_158524	NW_004516338.1	Scaffold1020	158524	AA	GG	1946990761
SNP_P4_151371_158590	NW_004516338.1	Scaffold1020	158590	TT	CC	1946990763
SNP_P4_151372_177066	NW_004516338.1	Scaffold1020	177066	AA	TT	1946990765
SNP_P4_151373_177073	NW_004516338.1	Scaffold1020	177073	CC	GG	1946990767
SNP_P4_151374_177080	NW_004516338.1	Scaffold1020	177080	GG	CC	1946990769
SNP_P4_151375_177098	NW_004516338.1	Scaffold1020	177098	CC	AA	1946990771
SNP_P4_151376_177202	NW_004516338.1	Scaffold1020	177202	GG	TT	1946990773
SNP_P4_151377_177536	NW_004516338.1	Scaffold1020	177536	TT	CC	1946990775
SNP_P4_151378_177553	NW_004516338.1	Scaffold1020	177553	AA	GG	1946990777
SNP_P4_151379_183084	NW_004516338.1	Scaffold1020	183084	TT	CC	1946990779
SNP_P4_151380_185334	NW_004516338.1	Scaffold1020	185334	CC	TT	1946990781
SNP_P4_151381_197123	NW_004516338.1	Scaffold1020	197123	AA	GG	1946990784
SNP_P4_151382_197149	NW_004516338.1	Scaffold1020	197149	GG	AA	1946990786
SNP_P4_151383_197155	NW_004516338.1	Scaffold1020	197155	GG	AA	1946990788
SNP_P4_151384_197166	NW_004516338.1	Scaffold1020	197166	GG	AA	1946990790
SNP_P4_151386_197404	NW_004516338.1	Scaffold1020	197404	TT	CC	1946990792
SNP_P4_151387_197463	NW_004516338.1	Scaffold1020	197463	GG	AA	1946990794
SNP_P4_151388_197550	NW_004516338.1	Scaffold1020	197550	AA	TT	1946990796
SNP_P4_151390_229381	NW_004516338.1	Scaffold1020	229381	TT	GG	1946990798
SNP_P4_151391_246888	NW_004516338.1	Scaffold1020	246888	GG	AA	1946990800
SNP_P4_151392_246890	NW_004516338.1	Scaffold1020	246890	CC	TT	1946990802
SNP_P4_151393_264844	NW_004516338.1	Scaffold1020	264844	GG	CC	1946990804
SNP_P4_151394_273034	NW_004516338.1	Scaffold1020	273034	TT	AA	1946990806
SNP_P4_151395_273065	NW_004516338.1	Scaffold1020	273065	TT	AA	1946990808
SNP_P4_151396_273066	NW_004516338.1	Scaffold1020	273066	GG	TT	1946990810
SNP_P4_151397_273102	NW_004516338.1	Scaffold1020	273102	CC	GG	1946990812
SNP_P4_151398_273114	NW_004516338.1	Scaffold1020	273114	TT	CC	1946990814
SNP_P4_151399_275372	NW_004516338.1	Scaffold1020	275372	CC	TT	1946990816
SNP_P4_151400_281016	NW_004516338.1	Scaffold1020	281016	CC	TT	1946990819
SNP_P4_151401_325970	NW_004516338.1	Scaffold1020	325970	TT	GG	1946990821
SNP_P4_151402_325976	NW_004516338.1	Scaffold1020	325976	CC	TT	1946990823
SNP_P4_151403_326053	NW_004516338.1	Scaffold1020	326053	TT	GG	1946990825
SNP_P4_151404_326224	NW_004516338.1	Scaffold1020	326224	AA	GG	1946990827

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_151406_1949	NW_004516340.1	Scaffold1023	1949	AA	GG	1946990831
SNP_P4_151407_19750	NW_004516343.1	Scaffold1027	19750	AA	GG	1946990833
SNP_P4_151408_21279	NW_004516343.1	Scaffold1027	21279	AA	GG	1946990835
SNP_P4_151409_22485	NW_004516343.1	Scaffold1027	22485	TT	CC	1946990837
SNP_P4_151410_35961	NW_004516343.1	Scaffold1027	35961	TT	CC	1946990839
SNP_P4_151411_38521	NW_004516343.1	Scaffold1027	38521	TT	CC	1946990841
SNP_P4_151412_38535	NW_004516343.1	Scaffold1027	38535	GG	AA	1946990843
SNP_P4_151413_46492	NW_004516343.1	Scaffold1027	46492	CC	TT	1946990845
SNP_P4_151414_64608	NW_004516343.1	Scaffold1027	64608	TT	GG	1946990847
SNP_P4_151415_77876	NW_004516343.1	Scaffold1027	77876	TT	CC	1946990849
SNP_P4_151416_77887	NW_004516343.1	Scaffold1027	77887	CC	TT	1946990851
SNP_P4_151417_77928	NW_004516343.1	Scaffold1027	77928	TT	CC	1946990853
SNP_P4_151418_77974	NW_004516343.1	Scaffold1027	77974	TT	GG	1946990855
SNP_P4_151419_78000	NW_004516343.1	Scaffold1027	78000	TT	AA	1946990857
SNP_P4_151420_82675	NW_004516343.1	Scaffold1027	82675	CC	AA	1946990859
SNP_P4_151421_99230	NW_004516343.1	Scaffold1027	99230	GG	AA	1946990861
SNP_P4_151422_107858	NW_004516343.1	Scaffold1027	107858	CC	TT	1946990863
SNP_P4_151423_109143	NW_004516343.1	Scaffold1027	109143	AA	CC	1946990865
SNP_P4_151424_109895	NW_004516343.1	Scaffold1027	109895	AA	GG	1946990868
SNP_P4_151425_109935	NW_004516343.1	Scaffold1027	109935	AA	TT	1946990870
SNP_P4_151426_138879	NW_004516343.1	Scaffold1027	138879	CC	TT	1946990872
SNP_P4_151427_142854	NW_004516343.1	Scaffold1027	142854	CC	AA	1946990874
SNP_P4_151428_143361	NW_004516343.1	Scaffold1027	143361	TT	AA	1946990876
SNP_P4_151429_143674	NW_004516343.1	Scaffold1027	143674	GG	AA	1946990878
SNP_P4_151430_143687	NW_004516343.1	Scaffold1027	143687	AA	GG	1946990880
SNP_P4_151431_146014	NW_004516343.1	Scaffold1027	146014	AA	GG	1946990882
SNP_P4_151432_146151	NW_004516343.1	Scaffold1027	146151	GG	TT	1946990884
SNP_P4_151433_148413	NW_004516343.1	Scaffold1027	148413	CC	TT	1946990886
SNP_P4_151434_148470	NW_004516343.1	Scaffold1027	148470	GG	AA	1946990888
SNP_P4_151435_148527	NW_004516343.1	Scaffold1027	148527	CC	TT	1946990890
SNP_P4_151436_148551	NW_004516343.1	Scaffold1027	148551	GG	AA	1946990892
SNP_P4_151437_148557	NW_004516343.1	Scaffold1027	148557	AA	GG	1946990893
SNP_P4_151438_148590	NW_004516343.1	Scaffold1027	148590	CC	TT	1946990894
SNP_P4_151439_148700	NW_004516343.1	Scaffold1027	148700	TT	CC	1946990895
SNP_P4_151441_148744	NW_004516343.1	Scaffold1027	148744	AA	GG	1946990896
SNP_P4_151442_148781	NW_004516343.1	Scaffold1027	148781	GG	AA	1946990898
SNP_P4_151443_148787	NW_004516343.1	Scaffold1027	148787	TT	CC	1946990900
SNP_P4_151444_148790	NW_004516343.1	Scaffold1027	148790	TT	CC	1946990902
SNP_P4_151445_148791	NW_004516343.1	Scaffold1027	148791	AA	CC	1946990904
SNP_P4_151446_148793	NW_004516343.1	Scaffold1027	148793	AA	GG	1946990906
SNP_P4_151447_148823	NW_004516343.1	Scaffold1027	148823	AA	TT	1946990908

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_151448_148824	NW_004516343.1	Scaffold1027	148824	AA	GG	1946990910
SNP_P4_151449_148829	NW_004516343.1	Scaffold1027	148829	AA	GG	1946990912
SNP_P4_151450_148853	NW_004516343.1	Scaffold1027	148853	TT	CC	1946990914
SNP_P4_151451_148889	NW_004516343.1	Scaffold1027	148889	GG	AA	1946990916
SNP_P4_151452_148934	NW_004516343.1	Scaffold1027	148934	AA	GG	1946990918
SNP_P4_151454_148958	NW_004516343.1	Scaffold1027	148958	AA	GG	1946990920
SNP_P4_151455_148988	NW_004516343.1	Scaffold1027	148988	TT	CC	1946990922
SNP_P4_151456_149006	NW_004516343.1	Scaffold1027	149006	GG	AA	1946990924
SNP_P4_151457_149021	NW_004516343.1	Scaffold1027	149021	CC	TT	1946990926
SNP_P4_151458_149045	NW_004516343.1	Scaffold1027	149045	TT	CC	1946990928
SNP_P4_151459_149054	NW_004516343.1	Scaffold1027	149054	TT	CC	1946990930
SNP_P4_151460_150118	NW_004516343.1	Scaffold1027	150118	AA	GG	1946990932
SNP_P4_151461_150121	NW_004516343.1	Scaffold1027	150121	TT	GG	1946990934
SNP_P4_151462_150175	NW_004516343.1	Scaffold1027	150175	CC	TT	1946990936
SNP_P4_151464_160592	NW_004516343.1	Scaffold1027	160592	AA	CC	1946990938
SNP_P4_151465_175489	NW_004516343.1	Scaffold1027	175489	TT	CC	1946990940
SNP_P4_151466_190902	NW_004516343.1	Scaffold1027	190902	CC	GG	1946990942
SNP_P4_151467_191355	NW_004516343.1	Scaffold1027	191355	AA	GG	1946990944
SNP_P4_151468_191395	NW_004516343.1	Scaffold1027	191395	AA	GG	1946990946
SNP_P4_151469_193017	NW_004516343.1	Scaffold1027	193017	AA	TT	1946990948
SNP_P4_151470_193035	NW_004516343.1	Scaffold1027	193035	CC	TT	1946990950
SNP_P4_151471_193049	NW_004516343.1	Scaffold1027	193049	CC	TT	1946990952
SNP_P4_151472_193259	NW_004516343.1	Scaffold1027	193259	CC	AA	1946990954
SNP_P4_151474_203838	NW_004516343.1	Scaffold1027	203838	GG	CC	1946990956
SNP_P4_151475_203982	NW_004516343.1	Scaffold1027	203982	CC	TT	1946990958
SNP_P4_151476_204003	NW_004516343.1	Scaffold1027	204003	CC	TT	1946990960
SNP_P4_151477_204254	NW_004516343.1	Scaffold1027	204254	CC	AA	1946990962
SNP_P4_151478_204275	NW_004516343.1	Scaffold1027	204275	CC	TT	1946990964
SNP_P4_151479_204284	NW_004516343.1	Scaffold1027	204284	CC	TT	1946990966
SNP_P4_151480_204321	NW_004516343.1	Scaffold1027	204321	AA	GG	1946990968
SNP_P4_151481_204356	NW_004516343.1	Scaffold1027	204356	AA	TT	1946990970
SNP_P4_151482_204362	NW_004516343.1	Scaffold1027	204362	TT	AA	1946990972
SNP_P4_151483_204396	NW_004516343.1	Scaffold1027	204396	TT	CC	1946990974
SNP_P4_151484_204406	NW_004516343.1	Scaffold1027	204406	CC	AA	1946990976
SNP_P4_151485_204418	NW_004516343.1	Scaffold1027	204418	AA	CC	1946990977
SNP_P4_151486_204464	NW_004516343.1	Scaffold1027	204464	AA	GG	1946990979
SNP_P4_151487_211159	NW_004516343.1	Scaffold1027	211159	CC	TT	1946990981
SNP_P4_151488_212761	NW_004516343.1	Scaffold1027	212761	TT	CC	1946990983
SNP_P4_151489_219582	NW_004516343.1	Scaffold1027	219582	GG	AA	1946990985
SNP_P4_151490_219629	NW_004516343.1	Scaffold1027	219629	GG	TT	1946990987
SNP_P4_151491_228953	NW_004516343.1	Scaffold1027	228953	AA	GG	1946990989
SNP_P4_151493_245455	NW_004516343.1	Scaffold1027	245455	TT	AA	1946990991

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_151496_261229	NW_004516343.1	Scaffold1027	261229	GG	TT	1946990995
SNP_P4_151497_276498	NW_004516343.1	Scaffold1027	276498	AA	GG	1946990997
SNP_P4_151498_276744	NW_004516343.1	Scaffold1027	276744	AA	GG	1946990999
SNP_P4_151499_113	NW_004516344.1	Scaffold1029	113	GG	AA	1946991001
SNP_P4_151501_182	NW_004516344.1	Scaffold1029	182	AA	GG	1946991003
SNP_P4_151502_184	NW_004516344.1	Scaffold1029	184	TT	GG	1946991006
SNP_P4_151503_196	NW_004516344.1	Scaffold1029	196	TT	CC	1946991008
SNP_P4_151504_7280	NW_004516344.1	Scaffold1029	7280	CC	TT	1946991010
SNP_P4_151505_7617	NW_004516344.1	Scaffold1029	7617	GG	TT	1946991012
SNP_P4_151506_7634	NW_004516344.1	Scaffold1029	7634	TT	CC	1946991014
SNP_P4_151507_7647	NW_004516344.1	Scaffold1029	7647	TT	AA	1946991017
SNP_P4_151508_7648	NW_004516344.1	Scaffold1029	7648	TT	GG	1946991019
SNP_P4_151509_8051	NW_004516344.1	Scaffold1029	8051	CC	AA	1946991022
SNP_P4_151510_8053	NW_004516344.1	Scaffold1029	8053	AA	TT	1946991024
SNP_P4_151511_8336	NW_004516344.1	Scaffold1029	8336	TT	AA	1946991026
SNP_P4_151512_8356	NW_004516344.1	Scaffold1029	8356	TT	AA	1946991028
SNP_P4_151513_8387	NW_004516344.1	Scaffold1029	8387	TT	CC	1946991030
SNP_P4_151514_12336	NW_004516344.1	Scaffold1029	12336	GG	AA	1946991032
SNP_P4_151515_15071	NW_004516344.1	Scaffold1029	15071	CC	GG	1946991034
SNP_P4_151516_26847	NW_004516344.1	Scaffold1029	26847	TT	CC	1946991036
SNP_P4_151517_26853	NW_004516344.1	Scaffold1029	26853	CC	TT	1946991038
SNP_P4_151518_26887	NW_004516344.1	Scaffold1029	26887	CC	TT	1946991040
SNP_P4_151519_26890	NW_004516344.1	Scaffold1029	26890	AA	GG	1946991042
SNP_P4_151520_26909	NW_004516344.1	Scaffold1029	26909	CC	TT	1946991044
SNP_P4_151521_41756	NW_004516344.1	Scaffold1029	41756	AA	GG	1946991046
SNP_P4_151522_56618	NW_004516344.1	Scaffold1029	56618	GG	CC	1946991048
SNP_P4_151523_66642	NW_004516344.1	Scaffold1029	66642	GG	TT	1946991050
SNP_P4_151524_67736	NW_004516344.1	Scaffold1029	67736	GG	TT	1946991052
SNP_P4_151525_67745	NW_004516344.1	Scaffold1029	67745	GG	CC	1946991054
SNP_P4_151526_67787	NW_004516344.1	Scaffold1029	67787	AA	GG	1946991056
SNP_P4_151527_67795	NW_004516344.1	Scaffold1029	67795	CC	TT	1946991058
SNP_P4_151528_78181	NW_004516344.1	Scaffold1029	78181	AA	GG	1946991060
SNP_P4_151529_89692	NW_004516344.1	Scaffold1029	89692	CC	TT	1946991062
SNP_P4_151530_89701	NW_004516344.1	Scaffold1029	89701	GG	AA	1946991064
SNP_P4_151531_97073	NW_004516344.1	Scaffold1029	97073	GG	AA	1946991067
SNP_P4_151532_97112	NW_004516344.1	Scaffold1029	97112	GG	AA	1946991069
SNP_P4_151533_97113	NW_004516344.1	Scaffold1029	97113	GG	TT	1946991071
SNP_P4_151534_110264	NW_004516344.1	Scaffold1029	110264	TT	CC	1946991073
SNP_P4_151535_110433	NW_004516344.1	Scaffold1029	110433	AA	GG	1946991075
SNP_P4_151536_110493	NW_004516344.1	Scaffold1029	110493	AA	TT	1946991077
SNP_P4_151537_110499	NW_004516344.1	Scaffold1029	110499	TT	CC	1946991079

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_151539_110685	NW_004516344.1	Scaffold1029	110685	TT	CC	1946991083
SNP_P4_151540_110686	NW_004516344.1	Scaffold1029	110686	CC	TT	1946991085
SNP_P4_151541_110688	NW_004516344.1	Scaffold1029	110688	GG	AA	1946991087
SNP_P4_151542_110707	NW_004516344.1	Scaffold1029	110707	AA	GG	1946991089
SNP_P4_151543_110720	NW_004516344.1	Scaffold1029	110720	GG	CC	1946991091
SNP_P4_151544_110768	NW_004516344.1	Scaffold1029	110768	TT	CC	1946991093
SNP_P4_151545_110805	NW_004516344.1	Scaffold1029	110805	GG	TT	1946991095
SNP_P4_151546_110827	NW_004516344.1	Scaffold1029	110827	TT	CC	1946991097
SNP_P4_151547_110841	NW_004516344.1	Scaffold1029	110841	CC	TT	1946991099
SNP_P4_151548_114258	NW_004516344.1	Scaffold1029	114258	GG	TT	1946991101
SNP_P4_151549_114323	NW_004516344.1	Scaffold1029	114323	TT	CC	1946991103
SNP_P4_151550_114365	NW_004516344.1	Scaffold1029	114365	CC	AA	1946991105
SNP_P4_151552_149633	NW_004516344.1	Scaffold1029	149633	CC	TT	1946991107
SNP_P4_151553_149860	NW_004516344.1	Scaffold1029	149860	CC	TT	1946991109
SNP_P4_151554_150156	NW_004516344.1	Scaffold1029	150156	AA	GG	1946991111
SNP_P4_151555_150162	NW_004516344.1	Scaffold1029	150162	AA	GG	1946991113
SNP_P4_151556_180	NW_004516345.1	Scaffold1032	180	GG	AA	1946991115
SNP_P4_151557_2317	NW_004516345.1	Scaffold1032	2317	TT	CC	1946991117
SNP_P4_151558_22585	NW_004516345.1	Scaffold1032	22585	CC	AA	1946991119
SNP_P4_151559_22669	NW_004516345.1	Scaffold1032	22669	GG	AA	1946991121
SNP_P4_151560_22889	NW_004516345.1	Scaffold1032	22889	AA	CC	1946991123
SNP_P4_151561_23182	NW_004516345.1	Scaffold1032	23182	TT	GG	1946991125
SNP_P4_151562_24836	NW_004516345.1	Scaffold1032	24836	TT	AA	1946991127
SNP_P4_151563_24838	NW_004516345.1	Scaffold1032	24838	GG	AA	1946991129
SNP_P4_151564_24841	NW_004516345.1	Scaffold1032	24841	AA	CC	1946991131
SNP_P4_151565_25355	NW_004516345.1	Scaffold1032	25355	TT	AA	1946991133
SNP_P4_151566_25356	NW_004516345.1	Scaffold1032	25356	TT	CC	1946991135
SNP_P4_151567_1175	NW_004516347.1	Scaffold1034	1175	CC	GG	1946991137
SNP_P4_151568_1208	NW_004516347.1	Scaffold1034	1208	CC	AA	1946991139
SNP_P4_151569_1209	NW_004516347.1	Scaffold1034	1209	AA	TT	1946991141
SNP_P4_151570_1243	NW_004516347.1	Scaffold1034	1243	TT	CC	1946991143
SNP_P4_151571_1266	NW_004516347.1	Scaffold1034	1266	GG	AA	1946991145
SNP_P4_151572_1298	NW_004516347.1	Scaffold1034	1298	GG	CC	1946991147
SNP_P4_151573_1580	NW_004516347.1	Scaffold1034	1580	GG	AA	1946991149
SNP_P4_151574_7088	NW_004516347.1	Scaffold1034	7088	GG	CC	1946991151
SNP_P4_151575_8941	NW_004516347.1	Scaffold1034	8941	CC	TT	1946991153
SNP_P4_151576_9111	NW_004516347.1	Scaffold1034	9111	CC	AA	1946991155
SNP_P4_151577_9192	NW_004516347.1	Scaffold1034	9192	GG	AA	1946991157
SNP_P4_151578_9204	NW_004516347.1	Scaffold1034	9204	GG	AA	1946991159
SNP_P4_151579_9276	NW_004516347.1	Scaffold1034	9276	TT	GG	1946991161
SNP_P4_151580_9291	NW_004516347.1	Scaffold1034	9291	CC	TT	1946991163

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_151582_10068	NW_004516347.1	Scaffold1034	10068	AA	GG	1946991167
SNP_P4_151583_10383	NW_004516347.1	Scaffold1034	10383	AA	GG	1946991169
SNP_P4_151584_13347	NW_004516347.1	Scaffold1034	13347	CC	AA	1946991171
SNP_P4_151585_13977	NW_004516347.1	Scaffold1034	13977	CC	TT	1946991173
SNP_P4_151586_28381	NW_004516347.1	Scaffold1034	28381	CC	TT	1946991175
SNP_P4_151587_28469	NW_004516347.1	Scaffold1034	28469	CC	TT	1946991176
SNP_P4_151588_29606	NW_004516347.1	Scaffold1034	29606	AA	CC	1946991178
SNP_P4_151589_36311	NW_004516347.1	Scaffold1034	36311	TT	CC	1946991180
SNP_P4_151590_39469	NW_004516347.1	Scaffold1034	39469	TT	AA	1946991182
SNP_P4_151591_39496	NW_004516347.1	Scaffold1034	39496	AA	GG	1946991184
SNP_P4_151592_39497	NW_004516347.1	Scaffold1034	39497	CC	AA	1946991186
SNP_P4_151593_39914	NW_004516347.1	Scaffold1034	39914	AA	GG	1946991188
SNP_P4_151594_40447	NW_004516347.1	Scaffold1034	40447	TT	CC	1946991190
SNP_P4_151595_40717	NW_004516347.1	Scaffold1034	40717	AA	GG	1946991192
SNP_P4_151596_42442	NW_004516347.1	Scaffold1034	42442	GG	AA	1946991194
SNP_P4_151597_42826	NW_004516347.1	Scaffold1034	42826	AA	TT	1946991195
SNP_P4_151598_45152	NW_004516347.1	Scaffold1034	45152	TT	AA	1946991197
SNP_P4_151599_45639	NW_004516347.1	Scaffold1034	45639	GG	AA	1946991199
SNP_P4_151600_46156	NW_004516347.1	Scaffold1034	46156	AA	TT	1946991201
SNP_P4_151601_46385	NW_004516347.1	Scaffold1034	46385	TT	GG	1946991203
SNP_P4_151602_46722	NW_004516347.1	Scaffold1034	46722	TT	CC	1946991205
SNP_P4_151603_46758	NW_004516347.1	Scaffold1034	46758	GG	TT	1946991207
SNP_P4_151604_50558	NW_004516347.1	Scaffold1034	50558	AA	GG	1946991209
SNP_P4_151605_51367	NW_004516347.1	Scaffold1034	51367	TT	CC	1946991211
SNP_P4_151606_60710	NW_004516347.1	Scaffold1034	60710	AA	GG	1946991213
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SNP_P4_151610_66813	NW_004516347.1	Scaffold1034	66813	TT	CC	1946991221
SNP_P4_151611_74029	NW_004516347.1	Scaffold1034	74029	TT	GG	1946991223
SNP_P4_151612_76770	NW_004516347.1	Scaffold1034	76770	TT	AA	1946991225
SNP_P4_151614_504	NW_004516348.1	Scaffold1035	504	CC	TT	1946991227
SNP_P4_151615_517	NW_004516348.1	Scaffold1035	517	AA	TT	1946991229
SNP_P4_151616_821	NW_004516348.1	Scaffold1035	821	CC	TT	1946991231
SNP_P4_151617_947	NW_004516348.1	Scaffold1035	947	TT	GG	1946991233
SNP_P4_151618_1158	NW_004516348.1	Scaffold1035	1158	GG	AA	1946991235
SNP_P4_151619_1337	NW_004516348.1	Scaffold1035	1337	TT	CC	1946991237
SNP_P4_151620_1441	NW_004516348.1	Scaffold1035	1441	GG	CC	1946991239
SNP_P4_151621_1586	NW_004516348.1	Scaffold1035	1586	GG	CC	1946991241
SNP_P4_151623_1846	NW_004516348.1	Scaffold1035	1846	TT	GG	1946991243
SNP_P4_151624_1628	NW_004516349.1	Scaffold1036	1628	AA	TT	1946991245

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_151626_10361	NW_004516349.1	Scaffold1036	10361	GG	CC	1946991249
SNP_P4_151627_24040	NW_004516349.1	Scaffold1036	24040	GG	CC	1946991251
SNP_P4_151628_37452	NW_004516349.1	Scaffold1036	37452	AA	TT	1946991253
SNP_P4_151629_43779	NW_004516349.1	Scaffold1036	43779	AA	CC	1946991255
SNP_P4_151630_45874	NW_004516349.1	Scaffold1036	45874	CC	AA	1946991257
SNP_P4_151631_45926	NW_004516349.1	Scaffold1036	45926	GG	AA	1946991259
SNP_P4_151632_45939	NW_004516349.1	Scaffold1036	45939	GG	CC	1946991261
SNP_P4_151633_45942	NW_004516349.1	Scaffold1036	45942	AA	TT	1946991263
SNP_P4_151634_46111	NW_004516349.1	Scaffold1036	46111	AA	GG	1946991265
SNP_P4_151635_46114	NW_004516349.1	Scaffold1036	46114	TT	CC	1946991267
SNP_P4_151636_46160	NW_004516349.1	Scaffold1036	46160	GG	TT	1946991269
SNP_P4_151637_46206	NW_004516349.1	Scaffold1036	46206	CC	TT	1946991271
SNP_P4_151638_46238	NW_004516349.1	Scaffold1036	46238	AA	GG	1946991273
SNP_P4_151639_46329	NW_004516349.1	Scaffold1036	46329	TT	GG	1946991275
SNP_P4_151640_60401	NW_004516349.1	Scaffold1036	60401	GG	TT	1946991277
SNP_P4_151641_60433	NW_004516349.1	Scaffold1036	60433	CC	TT	1946991279
SNP_P4_151642_60434	NW_004516349.1	Scaffold1036	60434	TT	AA	1946991281
SNP_P4_151643_60446	NW_004516349.1	Scaffold1036	60446	TT	GG	1946991283
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SNP_P4_151645_60515	NW_004516349.1	Scaffold1036	60515	AA	TT	1946991287
SNP_P4_151646_60574	NW_004516349.1	Scaffold1036	60574	TT	AA	1946991289
SNP_P4_151647_65767	NW_004516349.1	Scaffold1036	65767	GG	AA	1946991291
SNP_P4_151648_74748	NW_004516349.1	Scaffold1036	74748	TT	CC	1946991293
SNP_P4_151650_75472	NW_004516349.1	Scaffold1036	75472	CC	TT	1946991295
SNP_P4_151652_77493	NW_004516349.1	Scaffold1036	77493	AA	GG	1946991297
SNP_P4_151653_77547	NW_004516349.1	Scaffold1036	77547	CC	TT	1946991299
SNP_P4_151654_77595	NW_004516349.1	Scaffold1036	77595	TT	AA	1946991301
SNP_P4_151655_78000	NW_004516349.1	Scaffold1036	78000	CC	AA	1946991303
SNP_P4_151656_78148	NW_004516349.1	Scaffold1036	78148	AA	GG	1946991305
SNP_P4_151657_78637	NW_004516349.1	Scaffold1036	78637	GG	AA	1946991307
SNP_P4_151658_85156	NW_004516349.1	Scaffold1036	85156	AA	TT	1946991309
SNP_P4_151659_86778	NW_004516349.1	Scaffold1036	86778	AA	CC	1946991311
SNP_P4_151660_87052	NW_004516349.1	Scaffold1036	87052	TT	AA	1946991313
SNP_P4_151661_87056	NW_004516349.1	Scaffold1036	87056	TT	GG	1946991315
SNP_P4_151662_93798	NW_004516349.1	Scaffold1036	93798	GG	CC	1946991317
SNP_P4_151663_93800	NW_004516349.1	Scaffold1036	93800	TT	AA	1946991319
SNP_P4_151664_93818	NW_004516349.1	Scaffold1036	93818	AA	CC	1946991321
SNP_P4_151665_93821	NW_004516349.1	Scaffold1036	93821	CC	AA	1946991323
SNP_P4_151666_93823	NW_004516349.1	Scaffold1036	93823	TT	GG	1946991325
SNP_P4_151667_94272	NW_004516349.1	Scaffold1036	94272	AA	GG	1946991327
SNP_P4_151668_94283	NW_004516349.1	Scaffold1036	94283	TT	CC	1946991329

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_151670_98507	NW_004516349.1	Scaffold1036	98507	CC	TT	1946991335
SNP_P4_151671_98519	NW_004516349.1	Scaffold1036	98519	GG	AA	1946991337
SNP_P4_151673_99789	NW_004516349.1	Scaffold1036	99789	TT	AA	1946991339
SNP_P4_151674_99825	NW_004516349.1	Scaffold1036	99825	AA	GG	1946991341
SNP_P4_151675_100170	NW_004516349.1	Scaffold1036	100170	AA	CC	1946991343
SNP_P4_151676_100223	NW_004516349.1	Scaffold1036	100223	TT	AA	1946991345
SNP_P4_151677_102220	NW_004516349.1	Scaffold1036	102220	AA	GG	1946991347
SNP_P4_151678_102283	NW_004516349.1	Scaffold1036	102283	GG	AA	1946991349
SNP_P4_151679_102373	NW_004516349.1	Scaffold1036	102373	AA	TT	1946991351
SNP_P4_151680_102512	NW_004516349.1	Scaffold1036	102512	GG	TT	1946991353
SNP_P4_151681_102522	NW_004516349.1	Scaffold1036	102522	AA	GG	1946991355
SNP_P4_151682_102585	NW_004516349.1	Scaffold1036	102585	AA	CC	1946991357
SNP_P4_151683_102609	NW_004516349.1	Scaffold1036	102609	TT	AA	1946991359
SNP_P4_151684_102620	NW_004516349.1	Scaffold1036	102620	GG	TT	1946991361
SNP_P4_151685_102636	NW_004516349.1	Scaffold1036	102636	AA	GG	1946991363
SNP_P4_151686_102639	NW_004516349.1	Scaffold1036	102639	TT	CC	1946991365
SNP_P4_151687_102655	NW_004516349.1	Scaffold1036	102655	GG	AA	1946991367
SNP_P4_151688_102671	NW_004516349.1	Scaffold1036	102671	CC	TT	1946991369
SNP_P4_151689_102956	NW_004516349.1	Scaffold1036	102956	TT	GG	1946991371
SNP_P4_151690_102961	NW_004516349.1	Scaffold1036	102961	AA	GG	1946991373
SNP_P4_151691_102969	NW_004516349.1	Scaffold1036	102969	TT	CC	1946991375
SNP_P4_151692_103012	NW_004516349.1	Scaffold1036	103012	GG	TT	1946991377
SNP_P4_151693_103024	NW_004516349.1	Scaffold1036	103024	TT	GG	1946991379
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SNP_P4_151697_103167	NW_004516349.1	Scaffold1036	103167	AA	GG	1946991387
SNP_P4_151698_103192	NW_004516349.1	Scaffold1036	103192	TT	CC	1946991389
SNP_P4_151699_103201	NW_004516349.1	Scaffold1036	103201	AA	GG	1946991391
SNP_P4_151700_115004	NW_004516349.1	Scaffold1036	115004	AA	GG	1946991393
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SNP_P4_151702_127060	NW_004516349.1	Scaffold1036	127060	TT	CC	1946991397
SNP_P4_151703_130811	NW_004516349.1	Scaffold1036	130811	AA	TT	1946991399
SNP_P4_151704_130826	NW_004516349.1	Scaffold1036	130826	TT	CC	1946991401
SNP_P4_151705_130827	NW_004516349.1	Scaffold1036	130827	TT	GG	1946991403
SNP_P4_151706_130831	NW_004516349.1	Scaffold1036	130831	CC	AA	1946991405
SNP_P4_151707_130850	NW_004516349.1	Scaffold1036	130850	CC	GG	1946991407
SNP_P4_151708_140362	NW_004516349.1	Scaffold1036	140362	GG	CC	1946991409
SNP_P4_151709_143991	NW_004516349.1	Scaffold1036	143991	TT	AA	1946991411
SNP_P4_151710_144112	NW_004516349.1	Scaffold1036	144112	GG	AA	1946991413
SNP_P4_151711_144307	NW_004516349.1	Scaffold1036	144307	GG	CC	1946991415

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_151714_169539	NW_004516349.1	Scaffold1036	169539	CC	AA	1946991421
SNP_P4_151715_169653	NW_004516349.1	Scaffold1036	169653	TT	AA	1946991423
SNP_P4_151716_171531	NW_004516349.1	Scaffold1036	171531	TT	AA	1946991425
SNP_P4_151717_173771	NW_004516349.1	Scaffold1036	173771	AA	GG	1946991427
SNP_P4_151718_177390	NW_004516349.1	Scaffold1036	177390	TT	AA	1946991429
SNP_P4_151719_188198	NW_004516349.1	Scaffold1036	188198	AA	GG	1946991431
SNP_P4_151720_194687	NW_004516349.1	Scaffold1036	194687	AA	GG	1946991433
SNP_P4_151722_196841	NW_004516349.1	Scaffold1036	196841	GG	AA	1946991435
SNP_P4_151724_203988	NW_004516349.1	Scaffold1036	203988	GG	TT	1946991437
SNP_P4_151726_204756	NW_004516349.1	Scaffold1036	204756	GG	AA	1946991439
SNP_P4_151727_204795	NW_004516349.1	Scaffold1036	204795	CC	TT	1946991441
SNP_P4_151728_204938	NW_004516349.1	Scaffold1036	204938	AA	GG	1946991443
SNP_P4_151729_204973	NW_004516349.1	Scaffold1036	204973	AA	TT	1946991445
SNP_P4_151730_204984	NW_004516349.1	Scaffold1036	204984	AA	TT	1946991447
SNP_P4_151732_205070	NW_004516349.1	Scaffold1036	205070	CC	TT	1946991449
SNP_P4_151733_205080	NW_004516349.1	Scaffold1036	205080	TT	CC	1946991451
SNP_P4_151734_205087	NW_004516349.1	Scaffold1036	205087	CC	AA	1946991453
SNP_P4_151735_205967	NW_004516349.1	Scaffold1036	205967	GG	CC	1946991455
SNP_P4_151736_207651	NW_004516349.1	Scaffold1036	207651	CC	TT	1946991457
SNP_P4_151737_213060	NW_004516349.1	Scaffold1036	213060	AA	GG	1946991459
SNP_P4_151738_213089	NW_004516349.1	Scaffold1036	213089	AA	GG	1946991461
SNP_P4_151739_213102	NW_004516349.1	Scaffold1036	213102	TT	AA	1946991462
SNP_P4_151740_214737	NW_004516349.1	Scaffold1036	214737	TT	CC	1946991464
SNP_P4_151741_223832	NW_004516349.1	Scaffold1036	223832	CC	AA	1946991466
SNP_P4_151742_224263	NW_004516349.1	Scaffold1036	224263	TT	AA	1946991468
SNP_P4_151743_224391	NW_004516349.1	Scaffold1036	224391	TT	GG	1946991470
SNP_P4_151744_224420	NW_004516349.1	Scaffold1036	224420	TT	CC	1946991472
SNP_P4_151745_224421	NW_004516349.1	Scaffold1036	224421	CC	AA	1946991474
SNP_P4_151746_224432	NW_004516349.1	Scaffold1036	224432	AA	CC	1946991476
SNP_P4_151747_224441	NW_004516349.1	Scaffold1036	224441	AA	CC	1946991477
SNP_P4_151748_224443	NW_004516349.1	Scaffold1036	224443	GG	AA	1946991479
SNP_P4_151749_224727	NW_004516349.1	Scaffold1036	224727	CC	GG	1946991481
SNP_P4_151750_224809	NW_004516349.1	Scaffold1036	224809	TT	AA	1946991483
SNP_P4_151751_225057	NW_004516349.1	Scaffold1036	225057	CC	GG	1946991485
SNP_P4_151752_225109	NW_004516349.1	Scaffold1036	225109	CC	GG	1946991487
SNP_P4_151753_225278	NW_004516349.1	Scaffold1036	225278	TT	CC	1946991489
SNP_P4_151754_225292	NW_004516349.1	Scaffold1036	225292	GG	TT	1946991491
SNP_P4_151755_225368	NW_004516349.1	Scaffold1036	225368	AA	CC	1946991493
SNP_P4_151756_225602	NW_004516349.1	Scaffold1036	225602	AA	GG	1946991495
SNP_P4_151757_225621	NW_004516349.1	Scaffold1036	225621	TT	CC	1946991497

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_151761_233405	NW_004516349.1	Scaffold1036	233405	TT	GG	1946991503
SNP_P4_151762_236063	NW_004516349.1	Scaffold1036	236063	AA	TT	1946991505
SNP_P4_151763_236147	NW_004516349.1	Scaffold1036	236147	CC	GG	1946991507
SNP_P4_151764_236437	NW_004516349.1	Scaffold1036	236437	TT	GG	1946991509
SNP_P4_151766_236469	NW_004516349.1	Scaffold1036	236469	CC	GG	1946991511
SNP_P4_151767_236479	NW_004516349.1	Scaffold1036	236479	TT	AA	1946991513
SNP_P4_151768_236592	NW_004516349.1	Scaffold1036	236592	TT	CC	1946991515
SNP_P4_151769_236989	NW_004516349.1	Scaffold1036	236989	AA	CC	1946991517
SNP_P4_151770_236992	NW_004516349.1	Scaffold1036	236992	CC	TT	1946991519
SNP_P4_151771_236993	NW_004516349.1	Scaffold1036	236993	GG	CC	1946991521
SNP_P4_151773_120	NW_004516350.1	Scaffold1038	120	AA	GG	1946991523
SNP_P4_151774_273	NW_004516350.1	Scaffold1038	273	TT	GG	1946991525
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SNP_P4_151776_387	NW_004516350.1	Scaffold1038	387	AA	CC	1946991529
SNP_P4_151777_389	NW_004516350.1	Scaffold1038	389	CC	TT	1946991531
SNP_P4_151778_554	NW_004516350.1	Scaffold1038	554	AA	GG	1946991533
SNP_P4_151779_589	NW_004516350.1	Scaffold1038	589	TT	AA	1946991535
SNP_P4_151780_650	NW_004516350.1	Scaffold1038	650	AA	TT	1946991537
SNP_P4_151782_726	NW_004516350.1	Scaffold1038	726	GG	TT	1946991539
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SNP_P4_151784_1593	NW_004516350.1	Scaffold1038	1593	GG	AA	1946991543
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SNP_P4_151787_1683	NW_004516350.1	Scaffold1038	1683	TT	CC	1946991549
SNP_P4_151788_1699	NW_004516350.1	Scaffold1038	1699	CC	TT	1946991551
SNP_P4_151789_2227	NW_004516350.1	Scaffold1038	2227	AA	TT	1946991553
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SNP_P4_151791_2348	NW_004516350.1	Scaffold1038	2348	TT	AA	1946991557
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SNP_P4_151793_2445	NW_004516350.1	Scaffold1038	2445	TT	GG	1946991561
SNP_P4_151795_2566	NW_004516350.1	Scaffold1038	2566	CC	TT	1946991563
SNP_P4_151796_2741	NW_004516350.1	Scaffold1038	2741	CC	TT	1946991565
SNP_P4_151797_2772	NW_004516350.1	Scaffold1038	2772	GG	AA	1946991567
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SNP_P4_151799_2631	NW_004516351.1	Scaffold1039	2631	TT	GG	1946991571
SNP_P4_151800_2997	NW_004516351.1	Scaffold1039	2997	AA	GG	1946991573
SNP_P4_151801_3282	NW_004516351.1	Scaffold1039	3282	GG	AA	1946991575
SNP_P4_151802_3413	NW_004516351.1	Scaffold1039	3413	AA	GG	1946991577
SNP_P4_151803_3509	NW_004516351.1	Scaffold1039	3509	AA	CC	1946991579
SNP_P4_151804_3649	NW_004516351.1	Scaffold1039	3649	TT	AA	1946991581

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_151806_3939	NW_004516351.1	Scaffold1039	3939	AA	GG	1946991585
SNP_P4_151807_4084	NW_004516351.1	Scaffold1039	4084	AA	GG	1946991587
SNP_P4_151808_4245	NW_004516351.1	Scaffold1039	4245	TT	GG	1946991589
SNP_P4_151809_4257	NW_004516351.1	Scaffold1039	4257	TT	CC	1946991591
SNP_P4_151810_4293	NW_004516351.1	Scaffold1039	4293	AA	TT	1946991593
SNP_P4_151811_4336	NW_004516351.1	Scaffold1039	4336	TT	CC	1946991595
SNP_P4_151812_4339	NW_004516351.1	Scaffold1039	4339	AA	TT	1946991597
SNP_P4_151813_4374	NW_004516351.1	Scaffold1039	4374	CC	TT	1946991599
SNP_P4_151815_4498	NW_004516351.1	Scaffold1039	4498	AA	GG	1946991601
SNP_P4_151816_10133	NW_004516351.1	Scaffold1039	10133	GG	AA	1946991603
SNP_P4_151817_10391	NW_004516351.1	Scaffold1039	10391	TT	CC	1946991605
SNP_P4_151818_10428	NW_004516351.1	Scaffold1039	10428	AA	GG	1946991607
SNP_P4_151819_10447	NW_004516351.1	Scaffold1039	10447	GG	AA	1946991609
SNP_P4_151820_12619	NW_004516351.1	Scaffold1039	12619	AA	GG	1946991611
SNP_P4_151821_12751	NW_004516351.1	Scaffold1039	12751	GG	AA	1946991613
SNP_P4_151822_12795	NW_004516351.1	Scaffold1039	12795	CC	AA	1946991615
SNP_P4_151823_13102	NW_004516351.1	Scaffold1039	13102	CC	AA	1946991617
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SNP_P4_151827_32318	NW_004516351.1	Scaffold1039	32318	TT	AA	1946991625
SNP_P4_151828_32327	NW_004516351.1	Scaffold1039	32327	AA	CC	1946991627
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SNP_P4_151837_40132	NW_004516351.1	Scaffold1039	40132	CC	TT	1946991641
SNP_P4_151838_40163	NW_004516351.1	Scaffold1039	40163	AA	GG	1946991643
SNP_P4_151839_40165	NW_004516351.1	Scaffold1039	40165	TT	CC	1946991645
SNP_P4_151840_40177	NW_004516351.1	Scaffold1039	40177	TT	CC	1946991647
SNP_P4_151841_40208	NW_004516351.1	Scaffold1039	40208	AA	GG	1946991649
SNP_P4_151842_40249	NW_004516351.1	Scaffold1039	40249	AA	GG	1946991651
SNP_P4_151843_40297	NW_004516351.1	Scaffold1039	40297	GG	AA	1946991653
SNP_P4_151844_40309	NW_004516351.1	Scaffold1039	40309	AA	GG	1946991655
SNP_P4_151845_40365	NW_004516351.1	Scaffold1039	40365	AA	GG	1946991657
SNP_P4_151846_40373	NW_004516351.1	Scaffold1039	40373	CC	TT	1946991659
SNP_P4_151847_40425	NW_004516351.1	Scaffold1039	40425	AA	GG	1946991661
SNP_P4_151848_40497	NW_004516351.1	Scaffold1039	40497	GG	AA	1946991663
SNP_P4_151849_40539	NW_004516351.1	Scaffold1039	40539	CC	TT	1946991665

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_151853_40574	NW_004516351.1	Scaffold1039	40574	GG	AA	1946991673
SNP_P4_151854_40602	NW_004516351.1	Scaffold1039	40602	GG	AA	1946991675
SNP_P4_151855_40812	NW_004516351.1	Scaffold1039	40812	TT	AA	1946991677
SNP_P4_151856_40920	NW_004516351.1	Scaffold1039	40920	AA	GG	1946991679
SNP_P4_151857_41007	NW_004516351.1	Scaffold1039	41007	AA	GG	1946991680
SNP_P4_151858_41049	NW_004516351.1	Scaffold1039	41049	TT	CC	1946991681
SNP_P4_151859_41085	NW_004516351.1	Scaffold1039	41085	GG	AA	1946991682
SNP_P4_151860_41124	NW_004516351.1	Scaffold1039	41124	CC	AA	1946991683
SNP_P4_151861_41167	NW_004516351.1	Scaffold1039	41167	GG	AA	1946991685
SNP_P4_151862_41260	NW_004516351.1	Scaffold1039	41260	TT	CC	1946991687
SNP_P4_151863_41262	NW_004516351.1	Scaffold1039	41262	TT	CC	1946991689
SNP_P4_151864_41275	NW_004516351.1	Scaffold1039	41275	TT	CC	1946991691
SNP_P4_151865_41299	NW_004516351.1	Scaffold1039	41299	AA	GG	1946991693
SNP_P4_151866_41302	NW_004516351.1	Scaffold1039	41302	GG	AA	1946991695
SNP_P4_151867_41312	NW_004516351.1	Scaffold1039	41312	TT	CC	1946991697
SNP_P4_151868_41317	NW_004516351.1	Scaffold1039	41317	AA	GG	1946991699
SNP_P4_151869_41332	NW_004516351.1	Scaffold1039	41332	TT	CC	1946991701
SNP_P4_151870_41362	NW_004516351.1	Scaffold1039	41362	AA	GG	1946991703
SNP_P4_151871_41392	NW_004516351.1	Scaffold1039	41392	AA	GG	1946991705
SNP_P4_151872_41395	NW_004516351.1	Scaffold1039	41395	AA	GG	1946991707
SNP_P4_151873_41396	NW_004516351.1	Scaffold1039	41396	GG	AA	1946991709
SNP_P4_151874_42146	NW_004516351.1	Scaffold1039	42146	TT	CC	1946991711
SNP_P4_151875_42147	NW_004516351.1	Scaffold1039	42147	AA	GG	1946991713
SNP_P4_151876_42502	NW_004516351.1	Scaffold1039	42502	CC	TT	1946991715
SNP_P4_151877_43699	NW_004516351.1	Scaffold1039	43699	GG	AA	1946991717
SNP_P4_151878_43704	NW_004516351.1	Scaffold1039	43704	AA	TT	1946991719
SNP_P4_151879_43900	NW_004516351.1	Scaffold1039	43900	CC	TT	1946991721
SNP_P4_151880_44736	NW_004516351.1	Scaffold1039	44736	TT	CC	1946991723
SNP_P4_151881_44824	NW_004516351.1	Scaffold1039	44824	CC	TT	1946991725
SNP_P4_151882_44916	NW_004516351.1	Scaffold1039	44916	AA	TT	1946991727
SNP_P4_151883_44950	NW_004516351.1	Scaffold1039	44950	TT	CC	1946991729
SNP_P4_151884_45027	NW_004516351.1	Scaffold1039	45027	GG	AA	1946991731
SNP_P4_151885_45254	NW_004516351.1	Scaffold1039	45254	AA	GG	1946991733
SNP_P4_151886_45256	NW_004516351.1	Scaffold1039	45256	TT	GG	1946991735
SNP_P4_151887_45260	NW_004516351.1	Scaffold1039	45260	AA	TT	1946991737
SNP_P4_151888_45344	NW_004516351.1	Scaffold1039	45344	TT	AA	1946991739
SNP_P4_151889_45357	NW_004516351.1	Scaffold1039	45357	CC	TT	1946991741
SNP_P4_151890_45501	NW_004516351.1	Scaffold1039	45501	AA	GG	1946991743
SNP_P4_151891_45545	NW_004516351.1	Scaffold1039	45545	CC	TT	1946991745

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_151892_45966	NW_004516351.1	Scaffold1039	45966	TT	GG	1946991747
SNP_P4_151893_46003	NW_004516351.1	Scaffold1039	46003	AA	TT	1946991749
SNP_P4_151894_46028	NW_004516351.1	Scaffold1039	46028	TT	CC	1946991751
SNP_P4_151895_46104	NW_004516351.1	Scaffold1039	46104	GG	AA	1946991753
SNP_P4_151896_46147	NW_004516351.1	Scaffold1039	46147	AA	TT	1946991755
SNP_P4_151897_46149	NW_004516351.1	Scaffold1039	46149	AA	TT	1946991757
SNP_P4_151898_46239	NW_004516351.1	Scaffold1039	46239	CC	GG	1946991759
SNP_P4_151899_46301	NW_004516351.1	Scaffold1039	46301	TT	AA	1946991761
SNP_P4_151900_46306	NW_004516351.1	Scaffold1039	46306	AA	TT	1946991763
SNP_P4_151901_46648	NW_004516351.1	Scaffold1039	46648	AA	GG	1946991765
SNP_P4_151902_46819	NW_004516351.1	Scaffold1039	46819	CC	TT	1946991767
SNP_P4_151903_46827	NW_004516351.1	Scaffold1039	46827	CC	AA	1946991769
SNP_P4_151904_46866	NW_004516351.1	Scaffold1039	46866	TT	CC	1946991771
SNP_P4_151905_47488	NW_004516351.1	Scaffold1039	47488	TT	CC	1946991773
SNP_P4_151906_47606	NW_004516351.1	Scaffold1039	47606	GG	TT	1946991775
SNP_P4_151907_47715	NW_004516351.1	Scaffold1039	47715	GG	AA	1946991777
SNP_P4_151908_47724	NW_004516351.1	Scaffold1039	47724	AA	GG	1946991779
SNP_P4_151909_47762	NW_004516351.1	Scaffold1039	47762	GG	AA	1946991781
SNP_P4_151910_47824	NW_004516351.1	Scaffold1039	47824	CC	TT	1946991783
SNP_P4_151911_47860	NW_004516351.1	Scaffold1039	47860	CC	TT	1946991785
SNP_P4_151912_47947	NW_004516351.1	Scaffold1039	47947	AA	GG	1946991787
SNP_P4_151913_47973	NW_004516351.1	Scaffold1039	47973	GG	AA	1946991789
SNP_P4_151914_48009	NW_004516351.1	Scaffold1039	48009	GG	TT	1946991791
SNP_P4_151915_48030	NW_004516351.1	Scaffold1039	48030	CC	TT	1946991793
SNP_P4_151916_48036	NW_004516351.1	Scaffold1039	48036	CC	TT	1946991795
SNP_P4_151917_48039	NW_004516351.1	Scaffold1039	48039	TT	CC	1946991797
SNP_P4_151918_48046	NW_004516351.1	Scaffold1039	48046	CC	TT	1946991799
SNP_P4_151919_48056	NW_004516351.1	Scaffold1039	48056	GG	TT	1946991801
SNP_P4_151920_48057	NW_004516351.1	Scaffold1039	48057	AA	GG	1946991803
SNP_P4_151921_48073	NW_004516351.1	Scaffold1039	48073	GG	AA	1946991805
SNP_P4_151922_48075	NW_004516351.1	Scaffold1039	48075	GG	TT	1946991807
SNP_P4_151923_48081	NW_004516351.1	Scaffold1039	48081	TT	GG	1946991809
SNP_P4_151924_48114	NW_004516351.1	Scaffold1039	48114	TT	GG	1946991811
SNP_P4_151925_48153	NW_004516351.1	Scaffold1039	48153	GG	AA	1946991813
SNP_P4_151926_48159	NW_004516351.1	Scaffold1039	48159	CC	AA	1946991815
SNP_P4_151927_48206	NW_004516351.1	Scaffold1039	48206	TT	AA	1946991817
SNP_P4_151928_48222	NW_004516351.1	Scaffold1039	48222	GG	AA	1946991819
SNP_P4_151929_48355	NW_004516351.1	Scaffold1039	48355	TT	CC	1946991821
SNP_P4_151930_48382	NW_004516351.1	Scaffold1039	48382	AA	CC	1946991823
SNP_P4_151931_48507	NW_004516351.1	Scaffold1039	48507	AA	TT	1946991825
SNP_P4_151932_48579	NW_004516351.1	Scaffold1039	48579	CC	AA	1946991827
SNP_P4_151934_48935	NW_004516351.1	Scaffold1039	48935	CC	TT	1946991829

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_151936_48993	NW_004516351.1	Scaffold1039	48993	TT	GG	1946991833
SNP_P4_151937_49034	NW_004516351.1	Scaffold1039	49034	TT	CC	1946991835
SNP_P4_151938_49109	NW_004516351.1	Scaffold1039	49109	TT	AA	1946991837
SNP_P4_151939_49165	NW_004516351.1	Scaffold1039	49165	AA	TT	1946991839
SNP_P4_151940_49177	NW_004516351.1	Scaffold1039	49177	AA	CC	1946991841
SNP_P4_151941_49220	NW_004516351.1	Scaffold1039	49220	GG	TT	1946991843
SNP_P4_151942_49407	NW_004516351.1	Scaffold1039	49407	AA	GG	1946991845
SNP_P4_151943_49416	NW_004516351.1	Scaffold1039	49416	TT	CC	1946991847
SNP_P4_151944_49724	NW_004516351.1	Scaffold1039	49724	TT	CC	1946991849
SNP_P4_151945_49736	NW_004516351.1	Scaffold1039	49736	CC	GG	1946991851
SNP_P4_151946_49807	NW_004516351.1	Scaffold1039	49807	AA	CC	1946991853
SNP_P4_151947_50769	NW_004516351.1	Scaffold1039	50769	AA	GG	1946991855
SNP_P4_151948_50827	NW_004516351.1	Scaffold1039	50827	CC	TT	1946991857
SNP_P4_151949_51001	NW_004516351.1	Scaffold1039	51001	TT	CC	1946991859
SNP_P4_151950_51033	NW_004516351.1	Scaffold1039	51033	CC	TT	1946991860
SNP_P4_151951_51076	NW_004516351.1	Scaffold1039	51076	TT	CC	1946991861
SNP_P4_151952_51091	NW_004516351.1	Scaffold1039	51091	TT	GG	1946991862
SNP_P4_151953_51161	NW_004516351.1	Scaffold1039	51161	TT	AA	1946991863
SNP_P4_151954_51248	NW_004516351.1	Scaffold1039	51248	TT	CC	1946991864
SNP_P4_151955_51264	NW_004516351.1	Scaffold1039	51264	CC	TT	1946991865
SNP_P4_151956_51304	NW_004516351.1	Scaffold1039	51304	GG	AA	1946991867
SNP_P4_151957_51321	NW_004516351.1	Scaffold1039	51321	GG	TT	1946991869
SNP_P4_151958_51346	NW_004516351.1	Scaffold1039	51346	TT	AA	1946991871
SNP_P4_151959_51389	NW_004516351.1	Scaffold1039	51389	TT	GG	1946991873
SNP_P4_151960_53951	NW_004516351.1	Scaffold1039	53951	AA	GG	1946991875
SNP_P4_151961_54156	NW_004516351.1	Scaffold1039	54156	AA	GG	1946991877
SNP_P4_151962_54354	NW_004516351.1	Scaffold1039	54354	GG	AA	1946991879
SNP_P4_151963_54380	NW_004516351.1	Scaffold1039	54380	AA	GG	1946991881
SNP_P4_151964_54395	NW_004516351.1	Scaffold1039	54395	AA	GG	1946991883
SNP_P4_151965_54401	NW_004516351.1	Scaffold1039	54401	TT	CC	1946991884
SNP_P4_151966_54516	NW_004516351.1	Scaffold1039	54516	AA	GG	1946991885
SNP_P4_151967_54539	NW_004516351.1	Scaffold1039	54539	GG	AA	1946991886
SNP_P4_151968_54630	NW_004516351.1	Scaffold1039	54630	GG	TT	1946991887
SNP_P4_151969_54637	NW_004516351.1	Scaffold1039	54637	AA	GG	1946991889
SNP_P4_151970_54714	NW_004516351.1	Scaffold1039	54714	GG	AA	1946991891
SNP_P4_151971_54887	NW_004516351.1	Scaffold1039	54887	TT	CC	1946991893
SNP_P4_151972_54953	NW_004516351.1	Scaffold1039	54953	TT	GG	1946991895
SNP_P4_151973_55005	NW_004516351.1	Scaffold1039	55005	CC	GG	1946991897
SNP_P4_151974_55270	NW_004516351.1	Scaffold1039	55270	TT	CC	1946991899
SNP_P4_151975_55314	NW_004516351.1	Scaffold1039	55314	TT	GG	1946991901
SNP_P4_151976_55334	NW_004516351.1	Scaffold1039	55334	TT	CC	1946991903

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_151978_57592	NW_004516351.1	Scaffold1039	57592	GG	AA	1946991907
SNP_P4_151979_57596	NW_004516351.1	Scaffold1039	57596	GG	AA	1946991909
SNP_P4_151980_57602	NW_004516351.1	Scaffold1039	57602	AA	GG	1946991911
SNP_P4_151981_57621	NW_004516351.1	Scaffold1039	57621	TT	CC	1946991913
SNP_P4_151982_57638	NW_004516351.1	Scaffold1039	57638	GG	TT	1946991915
SNP_P4_151983_57642	NW_004516351.1	Scaffold1039	57642	CC	GG	1946991917
SNP_P4_151984_57646	NW_004516351.1	Scaffold1039	57646	AA	GG	1946991919
SNP_P4_151985_57691	NW_004516351.1	Scaffold1039	57691	TT	CC	1946991921
SNP_P4_151986_57723	NW_004516351.1	Scaffold1039	57723	GG	AA	1946991923
SNP_P4_151987_57725	NW_004516351.1	Scaffold1039	57725	TT	CC	1946991925
SNP_P4_151988_57741	NW_004516351.1	Scaffold1039	57741	CC	TT	1946991927
SNP_P4_151989_57762	NW_004516351.1	Scaffold1039	57762	AA	TT	1946991929
SNP_P4_151990_57763	NW_004516351.1	Scaffold1039	57763	AA	GG	1946991931
SNP_P4_151991_57772	NW_004516351.1	Scaffold1039	57772	TT	CC	1946991933
SNP_P4_151992_57822	NW_004516351.1	Scaffold1039	57822	TT	AA	1946991935
SNP_P4_151993_57840	NW_004516351.1	Scaffold1039	57840	GG	CC	1946991937
SNP_P4_151994_57841	NW_004516351.1	Scaffold1039	57841	TT	CC	1946991939
SNP_P4_151995_57964	NW_004516351.1	Scaffold1039	57964	AA	GG	1946991941
SNP_P4_151996_58132	NW_004516351.1	Scaffold1039	58132	TT	CC	1946991943
SNP_P4_151997_58146	NW_004516351.1	Scaffold1039	58146	CC	AA	1946991945
SNP_P4_151998_58160	NW_004516351.1	Scaffold1039	58160	GG	AA	1946991947
SNP_P4_151999_58165	NW_004516351.1	Scaffold1039	58165	GG	AA	1946991949
SNP_P4_152000_58177	NW_004516351.1	Scaffold1039	58177	AA	TT	1946991951
SNP_P4_152001_58178	NW_004516351.1	Scaffold1039	58178	TT	AA	1946991953
SNP_P4_152002_58462	NW_004516351.1	Scaffold1039	58462	TT	CC	1946991955
SNP_P4_152003_58467	NW_004516351.1	Scaffold1039	58467	TT	CC	1946991957
SNP_P4_152004_58676	NW_004516351.1	Scaffold1039	58676	GG	TT	1946991959
SNP_P4_152005_58685	NW_004516351.1	Scaffold1039	58685	GG	AA	1946991960
SNP_P4_152006_58798	NW_004516351.1	Scaffold1039	58798	TT	AA	1946991962
SNP_P4_152007_58825	NW_004516351.1	Scaffold1039	58825	CC	AA	1946991964
SNP_P4_152008_58837	NW_004516351.1	Scaffold1039	58837	TT	CC	1946991966
SNP_P4_152009_58855	NW_004516351.1	Scaffold1039	58855	GG	AA	1946991968
SNP_P4_152010_58859	NW_004516351.1	Scaffold1039	58859	TT	AA	1946991970
SNP_P4_152011_58861	NW_004516351.1	Scaffold1039	58861	AA	GG	1946991972
SNP_P4_152012_58938	NW_004516351.1	Scaffold1039	58938	AA	GG	1946991974
SNP_P4_152013_58959	NW_004516351.1	Scaffold1039	58959	CC	AA	1946991976
SNP_P4_152014_58967	NW_004516351.1	Scaffold1039	58967	AA	GG	1946991978
SNP_P4_152015_58977	NW_004516351.1	Scaffold1039	58977	CC	TT	1946991980
SNP_P4_152016_58990	NW_004516351.1	Scaffold1039	58990	TT	CC	1946991981
SNP_P4_152017_58995	NW_004516351.1	Scaffold1039	58995	GG	AA	1946991983
SNP_P4_152018_59031	NW_004516351.1	Scaffold1039	59031	GG	TT	1946991985

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_152020_59146	NW_004516351.1	Scaffold1039	59146	TT	CC	1946991989
SNP_P4_152021_59161	NW_004516351.1	Scaffold1039	59161	AA	TT	1946991991
SNP_P4_152022_59216	NW_004516351.1	Scaffold1039	59216	AA	CC	1946991993
SNP_P4_152023_59241	NW_004516351.1	Scaffold1039	59241	GG	AA	1946991995
SNP_P4_152025_59436	NW_004516351.1	Scaffold1039	59436	GG	AA	1946991997
SNP_P4_152026_59534	NW_004516351.1	Scaffold1039	59534	GG	AA	1946991999
SNP_P4_152027_59554	NW_004516351.1	Scaffold1039	59554	GG	CC	1946992001
SNP_P4_152028_59565	NW_004516351.1	Scaffold1039	59565	TT	AA	1946992003
SNP_P4_152029_59907	NW_004516351.1	Scaffold1039	59907	GG	AA	1946992005
SNP_P4_152030_63473	NW_004516351.1	Scaffold1039	63473	AA	TT	1946992007
SNP_P4_152031_63537	NW_004516351.1	Scaffold1039	63537	AA	CC	1946992009
SNP_P4_152032_63541	NW_004516351.1	Scaffold1039	63541	GG	CC	1946992011
SNP_P4_152033_63550	NW_004516351.1	Scaffold1039	63550	GG	AA	1946992013
SNP_P4_152034_63552	NW_004516351.1	Scaffold1039	63552	TT	CC	1946992015
SNP_P4_152035_63608	NW_004516351.1	Scaffold1039	63608	CC	TT	1946992017
SNP_P4_152036_63690	NW_004516351.1	Scaffold1039	63690	AA	GG	1946992018
SNP_P4_152037_63697	NW_004516351.1	Scaffold1039	63697	AA	TT	1946992020
SNP_P4_152038_63724	NW_004516351.1	Scaffold1039	63724	AA	TT	1946992022
SNP_P4_152039_63905	NW_004516351.1	Scaffold1039	63905	TT	CC	1946992024
SNP_P4_152040_63966	NW_004516351.1	Scaffold1039	63966	AA	GG	1946992026
SNP_P4_152041_4535	NW_004516352.1	Scaffold1041	4535	CC	GG	1946992028
SNP_P4_152042_14608	NW_004516352.1	Scaffold1041	14608	AA	GG	1946992030
SNP_P4_152044_14612	NW_004516353.1	Scaffold1043	14612	TT	CC	1946992032
SNP_P4_152045_14640	NW_004516353.1	Scaffold1043	14640	AA	GG	1946992034
SNP_P4_152046_14655	NW_004516353.1	Scaffold1043	14655	AA	GG	1946992036
SNP_P4_152047_14665	NW_004516353.1	Scaffold1043	14665	TT	GG	1946992038
SNP_P4_152048_14734	NW_004516353.1	Scaffold1043	14734	TT	GG	1946992040
SNP_P4_152049_14846	NW_004516353.1	Scaffold1043	14846	TT	CC	1946992042
SNP_P4_152050_14866	NW_004516353.1	Scaffold1043	14866	AA	CC	1946992043
SNP_P4_152051_15082	NW_004516353.1	Scaffold1043	15082	AA	GG	1946992045
SNP_P4_152052_15102	NW_004516353.1	Scaffold1043	15102	AA	GG	1946992047
SNP_P4_152053_15116	NW_004516353.1	Scaffold1043	15116	TT	CC	1946992049
SNP_P4_152054_25869	NW_004516353.1	Scaffold1043	25869	AA	GG	1946992052
SNP_P4_152055_32627	NW_004516353.1	Scaffold1043	32627	TT	AA	1946992054
SNP_P4_152056_32629	NW_004516353.1	Scaffold1043	32629	AA	CC	1946992056
SNP_P4_152057_32913	NW_004516353.1	Scaffold1043	32913	AA	TT	1946992058
SNP_P4_152058_32939	NW_004516353.1	Scaffold1043	32939	AA	CC	1946992060
SNP_P4_152059_32961	NW_004516353.1	Scaffold1043	32961	CC	AA	1946992062
SNP_P4_152060_32971	NW_004516353.1	Scaffold1043	32971	CC	AA	1946992064
SNP_P4_152061_32990	NW_004516353.1	Scaffold1043	32990	CC	TT	1946992066
SNP_P4_152062_33002	NW_004516353.1	Scaffold1043	33002	GG	AA	1946992068

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_152064_33028	NW_004516353.1	Scaffold1043	33028	TT	AA	1946992072
SNP_P4_152065_33043	NW_004516353.1	Scaffold1043	33043	AA	GG	1946992074
SNP_P4_152066_33047	NW_004516353.1	Scaffold1043	33047	GG	TT	1946992076
SNP_P4_152067_33052	NW_004516353.1	Scaffold1043	33052	GG	AA	1946992078
SNP_P4_152068_39377	NW_004516353.1	Scaffold1043	39377	GG	AA	1946992080
SNP_P4_152069_39528	NW_004516353.1	Scaffold1043	39528	CC	TT	1946992082
SNP_P4_152070_39981	NW_004516353.1	Scaffold1043	39981	TT	CC	1946992084
SNP_P4_152071_40005	NW_004516353.1	Scaffold1043	40005	AA	GG	1946992086
SNP_P4_152072_40474	NW_004516353.1	Scaffold1043	40474	GG	AA	1946992088
SNP_P4_152073_41111	NW_004516353.1	Scaffold1043	41111	CC	TT	1946992090
SNP_P4_152074_47328	NW_004516353.1	Scaffold1043	47328	CC	TT	1946992092
SNP_P4_152075_47329	NW_004516353.1	Scaffold1043	47329	AA	GG	1946992094
SNP_P4_152076_55560	NW_004516353.1	Scaffold1043	55560	TT	CC	1946992096
SNP_P4_152077_55614	NW_004516353.1	Scaffold1043	55614	CC	TT	1946992098
SNP_P4_152078_63085	NW_004516353.1	Scaffold1043	63085	TT	CC	1946992100
SNP_P4_152079_63303	NW_004516353.1	Scaffold1043	63303	CC	TT	1946992102
SNP_P4_152080_64867	NW_004516353.1	Scaffold1043	64867	TT	AA	1946992104
SNP_P4_152081_72293	NW_004516353.1	Scaffold1043	72293	TT	CC	1946992106
SNP_P4_152082_72543	NW_004516353.1	Scaffold1043	72543	GG	TT	1946992108
SNP_P4_152083_72596	NW_004516353.1	Scaffold1043	72596	TT	GG	1946992110
SNP_P4_152084_72597	NW_004516353.1	Scaffold1043	72597	AA	GG	1946992112
SNP_P4_152085_72598	NW_004516353.1	Scaffold1043	72598	TT	GG	1946992114
SNP_P4_152086_72615	NW_004516353.1	Scaffold1043	72615	AA	GG	1946992116
SNP_P4_152087_89443	NW_004516353.1	Scaffold1043	89443	TT	AA	1946992118
SNP_P4_152088_89469	NW_004516353.1	Scaffold1043	89469	CC	TT	1946992120
SNP_P4_152089_89480	NW_004516353.1	Scaffold1043	89480	GG	AA	1946992122
SNP_P4_152090_89597	NW_004516353.1	Scaffold1043	89597	CC	TT	1946992124
SNP_P4_152091_89797	NW_004516353.1	Scaffold1043	89797	TT	CC	1946992126
SNP_P4_152092_89901	NW_004516353.1	Scaffold1043	89901	TT	CC	1946992128
SNP_P4_152093_89904	NW_004516353.1	Scaffold1043	89904	CC	TT	1946992130
SNP_P4_152094_89976	NW_004516353.1	Scaffold1043	89976	AA	CC	1946992132
SNP_P4_152095_696	NW_004516354.1	Scaffold1044	696	AA	TT	1946992134
SNP_P4_152096_977	NW_004516354.1	Scaffold1044	977	TT	GG	1946992136
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SNP_P4_152098_1052	NW_004516354.1	Scaffold1044	1052	CC	TT	1946992140
SNP_P4_152099_1084	NW_004516354.1	Scaffold1044	1084	TT	CC	1946992142
SNP_P4_152100_4786	NW_004516354.1	Scaffold1044	4786	CC	TT	1946992144
SNP_P4_152101_4818	NW_004516354.1	Scaffold1044	4818	CC	AA	1946992146
SNP_P4_152102_4852	NW_004516354.1	Scaffold1044	4852	CC	AA	1946992148
SNP_P4_152103_16080	NW_004516354.1	Scaffold1044	16080	CC	GG	1946992150
SNP_P4_152104_16874	NW_004516354.1	Scaffold1044	16874	TT	CC	1946992152

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_152106_17271	NW_004516354.1	Scaffold1044	17271	CC	GG	1946992156
SNP_P4_152107_21618	NW_004516354.1	Scaffold1044	21618	CC	GG	1946992158
SNP_P4_152108_23552	NW_004516354.1	Scaffold1044	23552	GG	AA	1946992160
SNP_P4_152109_23636	NW_004516354.1	Scaffold1044	23636	AA	TT	1946992162
SNP_P4_152110_23828	NW_004516354.1	Scaffold1044	23828	CC	GG	1946992164
SNP_P4_152111_24456	NW_004516354.1	Scaffold1044	24456	GG	AA	1946992166
SNP_P4_152112_27233	NW_004516354.1	Scaffold1044	27233	CC	GG	1946992168
SNP_P4_152113_32048	NW_004516354.1	Scaffold1044	32048	CC	TT	1946992170
SNP_P4_152114_32536	NW_004516354.1	Scaffold1044	32536	CC	TT	1946992172
SNP_P4_152115_34464	NW_004516354.1	Scaffold1044	34464	TT	AA	1946992174
SNP_P4_152116_10770	NW_004516355.1	Scaffold1045	10770	CC	GG	1946992176
SNP_P4_152117_12242	NW_004516355.1	Scaffold1045	12242	AA	CC	1946992178
SNP_P4_152118_33424	NW_004516355.1	Scaffold1045	33424	TT	GG	1946992180
SNP_P4_152119_35680	NW_004516355.1	Scaffold1045	35680	AA	GG	1946992182
SNP_P4_152121_35754	NW_004516355.1	Scaffold1045	35754	TT	CC	1946992184
SNP_P4_152122_35784	NW_004516355.1	Scaffold1045	35784	AA	GG	1946992186
SNP_P4_152123_36101	NW_004516355.1	Scaffold1045	36101	TT	CC	1946992188
SNP_P4_152124_36149	NW_004516355.1	Scaffold1045	36149	TT	CC	1946992190
SNP_P4_152125_36160	NW_004516355.1	Scaffold1045	36160	GG	CC	1946992192
SNP_P4_152126_36183	NW_004516355.1	Scaffold1045	36183	AA	GG	1946992194
SNP_P4_152127_36191	NW_004516355.1	Scaffold1045	36191	AA	TT	1946992196
SNP_P4_152128_36211	NW_004516355.1	Scaffold1045	36211	AA	GG	1946992198
SNP_P4_152129_561	NW_004516356.1	Scaffold1046	561	AA	GG	1946992200
SNP_P4_152130_1886	NW_004516356.1	Scaffold1046	1886	TT	AA	1946992202
SNP_P4_152131_4047	NW_004516356.1	Scaffold1046	4047	AA	GG	1946992204
SNP_P4_152132_4909	NW_004516356.1	Scaffold1046	4909	TT	GG	1946992206
SNP_P4_152133_4936	NW_004516356.1	Scaffold1046	4936	GG	AA	1946992208
SNP_P4_152135_5213	NW_004516356.1	Scaffold1046	5213	TT	AA	1946992210
SNP_P4_152136_5259	NW_004516356.1	Scaffold1046	5259	GG	AA	1946992212
SNP_P4_152137_5295	NW_004516356.1	Scaffold1046	5295	GG	AA	1946992214
SNP_P4_152138_6453	NW_004516356.1	Scaffold1046	6453	CC	AA	1946992216
SNP_P4_152139_7586	NW_004516356.1	Scaffold1046	7586	CC	AA	1946992218
SNP_P4_152140_7605	NW_004516356.1	Scaffold1046	7605	GG	TT	1946992220
SNP_P4_152141_7620	NW_004516356.1	Scaffold1046	7620	AA	TT	1946992222
SNP_P4_152142_8016	NW_004516356.1	Scaffold1046	8016	GG	AA	1946992224
SNP_P4_152143_8074	NW_004516356.1	Scaffold1046	8074	AA	TT	1946992226
SNP_P4_152144_8753	NW_004516356.1	Scaffold1046	8753	GG	CC	1946992228
SNP_P4_152145_8898	NW_004516356.1	Scaffold1046	8898	GG	AA	1946992230
SNP_P4_152146_8949	NW_004516356.1	Scaffold1046	8949	CC	TT	1946992232
SNP_P4_152147_9036	NW_004516356.1	Scaffold1046	9036	TT	GG	1946992234
SNP_P4_152148_9044	NW_004516356.1	Scaffold1046	9044	TT	GG	1946992236

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_152149_9148	NW_004516356.1	Scaffold1046	9148	GG	AA	1946992238
SNP_P4_152150_9180	NW_004516356.1	Scaffold1046	9180	GG	AA	1946992241
SNP_P4_152151_9195	NW_004516356.1	Scaffold1046	9195	CC	AA	1946992243
SNP_P4_152152_9232	NW_004516356.1	Scaffold1046	9232	GG	TT	1946992245
SNP_P4_152153_9236	NW_004516356.1	Scaffold1046	9236	CC	AA	1946992247
SNP_P4_152154_9338	NW_004516356.1	Scaffold1046	9338	AA	TT	1946992249
SNP_P4_152155_9847	NW_004516356.1	Scaffold1046	9847	TT	CC	1946992251
SNP_P4_152156_9962	NW_004516356.1	Scaffold1046	9962	AA	CC	1946992252
SNP_P4_152157_10166	NW_004516356.1	Scaffold1046	10166	TT	CC	1946992254
SNP_P4_152158_10169	NW_004516356.1	Scaffold1046	10169	AA	CC	1946992256
SNP_P4_152159_10189	NW_004516356.1	Scaffold1046	10189	CC	TT	1946992258
SNP_P4_152160_10190	NW_004516356.1	Scaffold1046	10190	TT	AA	1946992260
SNP_P4_152161_10326	NW_004516356.1	Scaffold1046	10326	AA	GG	1946992262
SNP_P4_152163_10557	NW_004516356.1	Scaffold1046	10557	GG	CC	1946992264
SNP_P4_152164_10558	NW_004516356.1	Scaffold1046	10558	AA	GG	1946992266
SNP_P4_152165_10566	NW_004516356.1	Scaffold1046	10566	AA	CC	1946992268
SNP_P4_152166_10623	NW_004516356.1	Scaffold1046	10623	TT	GG	1946992270
SNP_P4_152167_10751	NW_004516356.1	Scaffold1046	10751	GG	AA	1946992272
SNP_P4_152168_10790	NW_004516356.1	Scaffold1046	10790	GG	AA	1946992274
SNP_P4_152169_10930	NW_004516356.1	Scaffold1046	10930	GG	TT	1946992276
SNP_P4_152170_10931	NW_004516356.1	Scaffold1046	10931	GG	AA	1946992278
SNP_P4_152171_10955	NW_004516356.1	Scaffold1046	10955	GG	CC	1946992280
SNP_P4_152172_10980	NW_004516356.1	Scaffold1046	10980	CC	TT	1946992282
SNP_P4_152173_10987	NW_004516356.1	Scaffold1046	10987	TT	AA	1946992284
SNP_P4_152174_11024	NW_004516356.1	Scaffold1046	11024	CC	TT	1946992286
SNP_P4_152175_11040	NW_004516356.1	Scaffold1046	11040	AA	TT	1946992288
SNP_P4_152176_11048	NW_004516356.1	Scaffold1046	11048	GG	CC	1946992290
SNP_P4_152177_11220	NW_004516356.1	Scaffold1046	11220	AA	TT	1946992292
SNP_P4_152178_11419	NW_004516356.1	Scaffold1046	11419	TT	GG	1946992294
SNP_P4_152179_11443	NW_004516356.1	Scaffold1046	11443	GG	AA	1946992296
SNP_P4_152180_11496	NW_004516356.1	Scaffold1046	11496	GG	TT	1946992298
SNP_P4_152181_11526	NW_004516356.1	Scaffold1046	11526	TT	AA	1946992300
SNP_P4_152182_11553	NW_004516356.1	Scaffold1046	11553	TT	AA	1946992302
SNP_P4_152183_11734	NW_004516356.1	Scaffold1046	11734	AA	TT	1946992304
SNP_P4_152184_11737	NW_004516356.1	Scaffold1046	11737	GG	CC	1946992306
SNP_P4_152185_11809	NW_004516356.1	Scaffold1046	11809	AA	CC	1946992308
SNP_P4_152186_11827	NW_004516356.1	Scaffold1046	11827	AA	CC	1946992310
SNP_P4_152187_11844	NW_004516356.1	Scaffold1046	11844	AA	GG	1946992312
SNP_P4_152188_11895	NW_004516356.1	Scaffold1046	11895	AA	CC	1946992314
SNP_P4_152189_11919	NW_004516356.1	Scaffold1046	11919	GG	AA	1946992315
SNP_P4_152190_11956	NW_004516356.1	Scaffold1046	11956	AA	CC	1946992317
SNP_P4_152191_12032	NW_004516356.1	Scaffold1046	12032	CC	TT	1946992319

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_152193_12093	NW_004516356.1	Scaffold1046	12093	CC	GG	1946992323
SNP_P4_152194_12132	NW_004516356.1	Scaffold1046	12132	CC	GG	1946992325
SNP_P4_152195_12203	NW_004516356.1	Scaffold1046	12203	GG	TT	1946992327
SNP_P4_152196_12272	NW_004516356.1	Scaffold1046	12272	CC	TT	1946992329
SNP_P4_152197_12302	NW_004516356.1	Scaffold1046	12302	CC	GG	1946992331
SNP_P4_152198_12413	NW_004516356.1	Scaffold1046	12413	CC	AA	1946992333
SNP_P4_152199_12456	NW_004516356.1	Scaffold1046	12456	AA	TT	1946992335
SNP_P4_152200_12468	NW_004516356.1	Scaffold1046	12468	GG	AA	1946992337
SNP_P4_152201_12778	NW_004516356.1	Scaffold1046	12778	TT	AA	1946992339
SNP_P4_152202_12892	NW_004516356.1	Scaffold1046	12892	TT	GG	1946992341
SNP_P4_152203_13002	NW_004516356.1	Scaffold1046	13002	TT	GG	1946992343
SNP_P4_152204_13095	NW_004516356.1	Scaffold1046	13095	TT	CC	1946992345
SNP_P4_152205_13098	NW_004516356.1	Scaffold1046	13098	AA	GG	1946992347
SNP_P4_152206_14562	NW_004516356.1	Scaffold1046	14562	TT	AA	1946992349
SNP_P4_152207_14565	NW_004516356.1	Scaffold1046	14565	CC	GG	1946992351
SNP_P4_152208_14621	NW_004516356.1	Scaffold1046	14621	GG	TT	1946992353
SNP_P4_152210_15251	NW_004516356.1	Scaffold1046	15251	AA	GG	1946992355
SNP_P4_152211_15419	NW_004516356.1	Scaffold1046	15419	CC	GG	1946992357
SNP_P4_152212_15433	NW_004516356.1	Scaffold1046	15433	CC	AA	1946992359
SNP_P4_152213_15592	NW_004516356.1	Scaffold1046	15592	GG	TT	1946992361
SNP_P4_152214_15637	NW_004516356.1	Scaffold1046	15637	TT	AA	1946992363
SNP_P4_152215_15717	NW_004516356.1	Scaffold1046	15717	TT	AA	1946992365
SNP_P4_152216_15871	NW_004516356.1	Scaffold1046	15871	TT	CC	1946992367
SNP_P4_152217_15886	NW_004516356.1	Scaffold1046	15886	TT	CC	1946992369
SNP_P4_152218_16373	NW_004516356.1	Scaffold1046	16373	CC	TT	1946992371
SNP_P4_152219_16392	NW_004516356.1	Scaffold1046	16392	CC	GG	1946992373
SNP_P4_152220_17065	NW_004516356.1	Scaffold1046	17065	TT	CC	1946992375
SNP_P4_152221_17354	NW_004516356.1	Scaffold1046	17354	AA	TT	1946992377
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SNP_P4_152225_18073	NW_004516356.1	Scaffold1046	18073	GG	TT	1946992383
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SNP_P4_152227_18235	NW_004516356.1	Scaffold1046	18235	AA	CC	1946992387
SNP_P4_152228_19017	NW_004516356.1	Scaffold1046	19017	CC	GG	1946992389
SNP_P4_152229_19446	NW_004516356.1	Scaffold1046	19446	TT	CC	1946992391
SNP_P4_152230_19448	NW_004516356.1	Scaffold1046	19448	GG	AA	1946992393
SNP_P4_152231_19685	NW_004516356.1	Scaffold1046	19685	AA	GG	1946992395
SNP_P4_152232_19737	NW_004516356.1	Scaffold1046	19737	AA	GG	1946992397
SNP_P4_152233_20185	NW_004516356.1	Scaffold1046	20185	GG	AA	1946992399
SNP_P4_152235_20545	NW_004516356.1	Scaffold1046	20545	CC	AA	1946992400
SNP_P4_152236_20593	NW_004516356.1	Scaffold1046	20593	AA	TT	1946992402

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_152239_21357	NW_004516356.1	Scaffold1046	21357	AA	GG	1946992406
SNP_P4_152240_22137	NW_004516356.1	Scaffold1046	22137	TT	AA	1946992408
SNP_P4_152241_22190	NW_004516356.1	Scaffold1046	22190	AA	GG	1946992410
SNP_P4_152242_22666	NW_004516356.1	Scaffold1046	22666	TT	CC	1946992412
SNP_P4_152243_22694	NW_004516356.1	Scaffold1046	22694	GG	AA	1946992414
SNP_P4_152244_22701	NW_004516356.1	Scaffold1046	22701	CC	TT	1946992416
SNP_P4_152245_22718	NW_004516356.1	Scaffold1046	22718	AA	CC	1946992418
SNP_P4_152246_22725	NW_004516356.1	Scaffold1046	22725	TT	GG	1946992420
SNP_P4_152247_25822	NW_004516356.1	Scaffold1046	25822	CC	GG	1946992422
SNP_P4_152248_28242	NW_004516356.1	Scaffold1046	28242	TT	CC	1946992424
SNP_P4_152249_28243	NW_004516356.1	Scaffold1046	28243	CC	TT	1946992426
SNP_P4_152250_30325	NW_004516356.1	Scaffold1046	30325	TT	AA	1946992428
SNP_P4_152251_31495	NW_004516356.1	Scaffold1046	31495	AA	GG	1946992430
SNP_P4_152253_31927	NW_004516356.1	Scaffold1046	31927	AA	GG	1946992432
SNP_P4_152254_32340	NW_004516356.1	Scaffold1046	32340	AA	TT	1946992434
SNP_P4_152255_32929	NW_004516356.1	Scaffold1046	32929	TT	CC	1946992436
SNP_P4_152256_32955	NW_004516356.1	Scaffold1046	32955	AA	TT	1946992438
SNP_P4_152257_33029	NW_004516356.1	Scaffold1046	33029	CC	TT	1946992440
SNP_P4_152258_14713	NW_004516357.1	Scaffold1047	14713	TT	CC	1946992442
SNP_P4_152259_16785	NW_004516357.1	Scaffold1047	16785	TT	CC	1946992444
SNP_P4_152260_16884	NW_004516357.1	Scaffold1047	16884	GG	AA	1946992446
SNP_P4_152261_17449	NW_004516357.1	Scaffold1047	17449	TT	CC	1946992448
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SNP_P4_152263_24505	NW_004516357.1	Scaffold1047	24505	AA	TT	1946992452
SNP_P4_152264_24660	NW_004516357.1	Scaffold1047	24660	AA	GG	1946992454
SNP_P4_152265_24805	NW_004516357.1	Scaffold1047	24805	GG	TT	1946992456
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SNP_P4_152267_34947	NW_004516357.1	Scaffold1047	34947	GG	TT	1946992460
SNP_P4_152268_35197	NW_004516357.1	Scaffold1047	35197	CC	TT	1946992462
SNP_P4_152269_35441	NW_004516357.1	Scaffold1047	35441	TT	AA	1946992464
SNP_P4_152270_35505	NW_004516357.1	Scaffold1047	35505	GG	AA	1946992466
SNP_P4_152271_41376	NW_004516357.1	Scaffold1047	41376	CC	TT	1946992468
SNP_P4_152272_41388	NW_004516357.1	Scaffold1047	41388	TT	CC	1946992470
SNP_P4_152274_44091	NW_004516357.1	Scaffold1047	44091	GG	AA	1946992472
SNP_P4_152275_52983	NW_004516357.1	Scaffold1047	52983	AA	GG	1946992474
SNP_P4_152277_62375	NW_004516357.1	Scaffold1047	62375	AA	TT	1946992476
SNP_P4_152278_63131	NW_004516357.1	Scaffold1047	63131	CC	TT	1946992478
SNP_P4_152279_63165	NW_004516357.1	Scaffold1047	63165	GG	TT	1946992480
SNP_P4_152281_91350	NW_004516357.1	Scaffold1047	91350	GG	CC	1946992482
SNP_P4_152284_163766	NW_004516357.1	Scaffold1047	163766	CC	TT	1946992484
SNP_P4_152287_175424	NW_004516357.1	Scaffold1047	175424	AA	GG	1946992486

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_152288_199044	NW_004516357.1	Scaffold1047	199044	GG	AA	1946992488
SNP_P4_152290_211775	NW_004516357.1	Scaffold1047	211775	TT	CC	1946992490
SNP_P4_152292_218086	NW_004516357.1	Scaffold1047	218086	AA	GG	1946992492
SNP_P4_152293_230317	NW_004516357.1	Scaffold1047	230317	AA	GG	1946992494
SNP_P4_152294_242535	NW_004516357.1	Scaffold1047	242535	TT	GG	1946992496
SNP_P4_152295_242536	NW_004516357.1	Scaffold1047	242536	TT	CC	1946992498
SNP_P4_152296_248395	NW_004516357.1	Scaffold1047	248395	TT	CC	1946992500
SNP_P4_152297_265553	NW_004516357.1	Scaffold1047	265553	GG	AA	1946992502
SNP_P4_152298_278063	NW_004516357.1	Scaffold1047	278063	GG	AA	1946992504
SNP_P4_152300_280916	NW_004516357.1	Scaffold1047	280916	AA	GG	1946992506
SNP_P4_152301_280979	NW_004516357.1	Scaffold1047	280979	TT	CC	1946992508
SNP_P4_152302_281047	NW_004516357.1	Scaffold1047	281047	CC	GG	1946992510
SNP_P4_152303_281108	NW_004516357.1	Scaffold1047	281108	GG	TT	1946992512
SNP_P4_152304_285749	NW_004516357.1	Scaffold1047	285749	TT	GG	1946992514
SNP_P4_152306_303113	NW_004516357.1	Scaffold1047	303113	AA	TT	1946992516
SNP_P4_152309_324624	NW_004516357.1	Scaffold1047	324624	GG	AA	1946992518
SNP_P4_152310_325119	NW_004516357.1	Scaffold1047	325119	AA	GG	1946992519
SNP_P4_152312_383449	NW_004516357.1	Scaffold1047	383449	AA	TT	1946992521
SNP_P4_152313_385571	NW_004516357.1	Scaffold1047	385571	TT	CC	1946992523
SNP_P4_152314_385785	NW_004516357.1	Scaffold1047	385785	GG	AA	1946992525
SNP_P4_152315_385837	NW_004516357.1	Scaffold1047	385837	TT	GG	1946992527
SNP_P4_152316_386927	NW_004516357.1	Scaffold1047	386927	CC	TT	1946992529
SNP_P4_152317_387335	NW_004516357.1	Scaffold1047	387335	GG	AA	1946992531
SNP_P4_152319_419821	NW_004516357.1	Scaffold1047	419821	GG	TT	1946992533
SNP_P4_152320_419898	NW_004516357.1	Scaffold1047	419898	GG	AA	1946992535
SNP_P4_152321_419919	NW_004516357.1	Scaffold1047	419919	GG	AA	1946992538
SNP_P4_152322_422267	NW_004516357.1	Scaffold1047	422267	AA	TT	1946992539
SNP_P4_152323_441637	NW_004516357.1	Scaffold1047	441637	TT	CC	1946992540
SNP_P4_152326_483637	NW_004516357.1	Scaffold1047	483637	GG	AA	1946992541
SNP_P4_152327_496331	NW_004516357.1	Scaffold1047	496331	TT	CC	1946992542
SNP_P4_152328_496332	NW_004516357.1	Scaffold1047	496332	GG	AA	1946992543
SNP_P4_152329_496368	NW_004516357.1	Scaffold1047	496368	TT	CC	1946992544
SNP_P4_152330_496616	NW_004516357.1	Scaffold1047	496616	AA	TT	1946992545
SNP_P4_152331_496659	NW_004516357.1	Scaffold1047	496659	AA	TT	1946992547
SNP_P4_152332_496704	NW_004516357.1	Scaffold1047	496704	AA	TT	1946992549
SNP_P4_152333_496719	NW_004516357.1	Scaffold1047	496719	TT	GG	1946992551
SNP_P4_152334_503170	NW_004516357.1	Scaffold1047	503170	AA	GG	1946992553
SNP_P4_152335_509269	NW_004516357.1	Scaffold1047	509269	CC	TT	1946992555
SNP_P4_152338_147	NW_004516358.1	Scaffold1048	147	AA	GG	1946992557
SNP_P4_152339_200	NW_004516358.1	Scaffold1048	200	CC	GG	1946992559
SNP_P4_152340_751	NW_004516358.1	Scaffold1048	751	CC	TT	1946992561
SNP_P4_152341_14811	NW_004516359.1	Scaffold1049	14811	TT	GG	1946992563

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_152342_22949	NW_004516359.1	Scaffold1049	22949	TT	AA	1946992565
SNP_P4_152343_24250	NW_004516359.1	Scaffold1049	24250	TT	GG	1946992567
SNP_P4_152344_24273	NW_004516359.1	Scaffold1049	24273	TT	CC	1946992569
SNP_P4_152345_24503	NW_004516359.1	Scaffold1049	24503	CC	TT	1946992571
SNP_P4_152346_25731	NW_004516359.1	Scaffold1049	25731	GG	AA	1946992573
SNP_P4_152347_32856	NW_004516359.1	Scaffold1049	32856	AA	CC	1946992575
SNP_P4_152349_44946	NW_004516359.1	Scaffold1049	44946	GG	AA	1946992577
SNP_P4_152350_44970	NW_004516359.1	Scaffold1049	44970	TT	CC	1946992579
SNP_P4_152351_72948	NW_004516359.1	Scaffold1049	72948	AA	GG	1946992581
SNP_P4_152352_72984	NW_004516359.1	Scaffold1049	72984	AA	GG	1946992583
SNP_P4_152353_72986	NW_004516359.1	Scaffold1049	72986	GG	AA	1946992585
SNP_P4_152354_73015	NW_004516359.1	Scaffold1049	73015	CC	TT	1946992587
SNP_P4_152355_73065	NW_004516359.1	Scaffold1049	73065	CC	TT	1946992589
SNP_P4_152356_74752	NW_004516359.1	Scaffold1049	74752	AA	GG	1946992591
SNP_P4_152357_74930	NW_004516359.1	Scaffold1049	74930	AA	GG	1946992593
SNP_P4_152358_75000	NW_004516359.1	Scaffold1049	75000	TT	AA	1946992595
SNP_P4_152360_75240	NW_004516359.1	Scaffold1049	75240	TT	GG	1946992597
SNP_P4_152361_99703	NW_004516359.1	Scaffold1049	99703	TT	GG	1946992599
SNP_P4_152362_99936	NW_004516359.1	Scaffold1049	99936	TT	AA	1946992601
SNP_P4_152363_110915	NW_004516359.1	Scaffold1049	110915	GG	TT	1946992603
SNP_P4_152364_110943	NW_004516359.1	Scaffold1049	110943	TT	CC	1946992605
SNP_P4_152365_110979	NW_004516359.1	Scaffold1049	110979	AA	CC	1946992607
SNP_P4_152366_111221	NW_004516359.1	Scaffold1049	111221	GG	AA	1946992609
SNP_P4_152367_111247	NW_004516359.1	Scaffold1049	111247	AA	GG	1946992611
SNP_P4_152368_111298	NW_004516359.1	Scaffold1049	111298	GG	AA	1946992613
SNP_P4_152371_127969	NW_004516359.1	Scaffold1049	127969	TT	GG	1946992615
SNP_P4_152372_127987	NW_004516359.1	Scaffold1049	127987	AA	GG	1946992617
SNP_P4_152373_127988	NW_004516359.1	Scaffold1049	127988	CC	GG	1946992619
SNP_P4_152374_128098	NW_004516359.1	Scaffold1049	128098	AA	GG	1946992621
SNP_P4_152375_128253	NW_004516359.1	Scaffold1049	128253	TT	CC	1946992623
SNP_P4_152376_128270	NW_004516359.1	Scaffold1049	128270	AA	GG	1946992625
SNP_P4_152377_128298	NW_004516359.1	Scaffold1049	128298	GG	CC	1946992627
SNP_P4_152378_128442	NW_004516359.1	Scaffold1049	128442	GG	AA	1946992629
SNP_P4_152379_128463	NW_004516359.1	Scaffold1049	128463	AA	CC	1946992631
SNP_P4_152380_128466	NW_004516359.1	Scaffold1049	128466	TT	CC	1946992633
SNP_P4_152381_128475	NW_004516359.1	Scaffold1049	128475	GG	AA	1946992635
SNP_P4_152382_128580	NW_004516359.1	Scaffold1049	128580	AA	GG	1946992637
SNP_P4_152383_128587	NW_004516359.1	Scaffold1049	128587	CC	TT	1946992639
SNP_P4_152384_185136	NW_004516359.1	Scaffold1049	185136	GG	AA	1946992641
SNP_P4_152385_193914	NW_004516359.1	Scaffold1049	193914	GG	AA	1946992643
SNP_P4_152386_195303	NW_004516359.1	Scaffold1049	195303	GG	TT	1946992645
SNP_P4_152387_276213	NW_004516359.1	Scaffold1049	276213	TT	AA	1946992647

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_152389_276642	NW_004516359.1	Scaffold1049	276642	AA	CC	1946992651
SNP_P4_152390_277183	NW_004516359.1	Scaffold1049	277183	TT	CC	1946992653
SNP_P4_152391_277334	NW_004516359.1	Scaffold1049	277334	TT	CC	1946992655
SNP_P4_152392_292860	NW_004516359.1	Scaffold1049	292860	TT	AA	1946992657
SNP_P4_152393_293701	NW_004516359.1	Scaffold1049	293701	TT	AA	1946992659
SNP_P4_152396_1195	NW_004516360.1	Scaffold1050	1195	TT	CC	1946992661
SNP_P4_152397_1603	NW_004516360.1	Scaffold1050	1603	AA	CC	1946992663
SNP_P4_152398_1938	NW_004516360.1	Scaffold1050	1938	GG	AA	1946992665
SNP_P4_152399_5328	NW_004516360.1	Scaffold1050	5328	GG	AA	1946992667
SNP_P4_152400_8296	NW_004516360.1	Scaffold1050	8296	TT	CC	1946992669
SNP_P4_152401_13200	NW_004516360.1	Scaffold1050	13200	CC	TT	1946992671
SNP_P4_152402_13211	NW_004516360.1	Scaffold1050	13211	AA	GG	1946992673
SNP_P4_152403_13226	NW_004516360.1	Scaffold1050	13226	CC	TT	1946992675
SNP_P4_152404_13286	NW_004516360.1	Scaffold1050	13286	GG	AA	1946992677
SNP_P4_152405_13296	NW_004516360.1	Scaffold1050	13296	CC	TT	1946992679
SNP_P4_152406_13574	NW_004516360.1	Scaffold1050	13574	TT	AA	1946992681
SNP_P4_152408_39009	NW_004516360.1	Scaffold1050	39009	AA	GG	1946992683
SNP_P4_152410_39184	NW_004516360.1	Scaffold1050	39184	GG	AA	1946992685
SNP_P4_152412_39441	NW_004516360.1	Scaffold1050	39441	GG	TT	1946992687
SNP_P4_152413_69133	NW_004516360.1	Scaffold1050	69133	AA	GG	1946992689
SNP_P4_152414_95302	NW_004516360.1	Scaffold1050	95302	AA	GG	1946992691
SNP_P4_152415_95374	NW_004516360.1	Scaffold1050	95374	CC	GG	1946992693
SNP_P4_152416_95676	NW_004516360.1	Scaffold1050	95676	CC	TT	1946992695
SNP_P4_152417_95694	NW_004516360.1	Scaffold1050	95694	GG	AA	1946992697
SNP_P4_152418_95709	NW_004516360.1	Scaffold1050	95709	AA	GG	1946992699
SNP_P4_152419_95723	NW_004516360.1	Scaffold1050	95723	AA	TT	1946992701
SNP_P4_152420_97682	NW_004516360.1	Scaffold1050	97682	TT	GG	1946992703
SNP_P4_152421_97690	NW_004516360.1	Scaffold1050	97690	AA	CC	1946992705
SNP_P4_152422_97694	NW_004516360.1	Scaffold1050	97694	CC	TT	1946992707
SNP_P4_152423_98708	NW_004516360.1	Scaffold1050	98708	AA	TT	1946992709
SNP_P4_152425_149185	NW_004516360.1	Scaffold1050	149185	TT	AA	1946992711
SNP_P4_152426_149186	NW_004516360.1	Scaffold1050	149186	AA	CC	1946992713
SNP_P4_152428_178658	NW_004516360.1	Scaffold1050	178658	TT	CC	1946992715
SNP_P4_152429_178701	NW_004516360.1	Scaffold1050	178701	AA	TT	1946992717
SNP_P4_152430_178854	NW_004516360.1	Scaffold1050	178854	GG	TT	1946992719
SNP_P4_152431_178861	NW_004516360.1	Scaffold1050	178861	AA	GG	1946992721
SNP_P4_152432_178909	NW_004516360.1	Scaffold1050	178909	GG	AA	1946992723
SNP_P4_152433_185056	NW_004516360.1	Scaffold1050	185056	AA	CC	1946992725
SNP_P4_152434_185084	NW_004516360.1	Scaffold1050	185084	TT	CC	1946992727
SNP_P4_152435_244218	NW_004516360.1	Scaffold1050	244218	CC	TT	1946992729
SNP_P4_152436_244513	NW_004516360.1	Scaffold1050	244513	TT	CC	1946992731

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_152438_249923	NW_004516360.1	Scaffold1050	249923	TT	CC	1946992735
SNP_P4_152439_2146	NW_004516361.1	Scaffold1051	2146	AA	TT	1946992737
SNP_P4_152440_2220	NW_004516361.1	Scaffold1051	2220	TT	GG	1946992739
SNP_P4_152441_6066	NW_004516361.1	Scaffold1051	6066	TT	CC	1946992741
SNP_P4_152442_12076	NW_004516361.1	Scaffold1051	12076	GG	AA	1946992743
SNP_P4_152443_12331	NW_004516361.1	Scaffold1051	12331	AA	CC	1946992745
SNP_P4_152444_12333	NW_004516361.1	Scaffold1051	12333	GG	TT	1946992747
SNP_P4_152445_12361	NW_004516361.1	Scaffold1051	12361	TT	CC	1946992749
SNP_P4_152446_13591	NW_004516361.1	Scaffold1051	13591	AA	TT	1946992751
SNP_P4_152447_13632	NW_004516361.1	Scaffold1051	13632	GG	CC	1946992753
SNP_P4_152448_13712	NW_004516361.1	Scaffold1051	13712	TT	CC	1946992755
SNP_P4_152449_13726	NW_004516361.1	Scaffold1051	13726	AA	GG	1946992757
SNP_P4_152450_13800	NW_004516361.1	Scaffold1051	13800	GG	TT	1946992759
SNP_P4_152451_13803	NW_004516361.1	Scaffold1051	13803	AA	GG	1946992761
SNP_P4_152452_13827	NW_004516361.1	Scaffold1051	13827	CC	TT	1946992762
SNP_P4_152453_13833	NW_004516361.1	Scaffold1051	13833	TT	AA	1946992764
SNP_P4_152454_13872	NW_004516361.1	Scaffold1051	13872	TT	CC	1946992766
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SNP_P4_152456_14002	NW_004516361.1	Scaffold1051	14002	CC	TT	1946992770
SNP_P4_152457_14011	NW_004516361.1	Scaffold1051	14011	GG	AA	1946992772
SNP_P4_152458_14051	NW_004516361.1	Scaffold1051	14051	GG	TT	1946992774
SNP_P4_152459_14082	NW_004516361.1	Scaffold1051	14082	CC	AA	1946992776
SNP_P4_152460_14117	NW_004516361.1	Scaffold1051	14117	GG	AA	1946992778
SNP_P4_152461_14268	NW_004516361.1	Scaffold1051	14268	TT	CC	1946992780
SNP_P4_152463_24586	NW_004516361.1	Scaffold1051	24586	TT	CC	1946992782
SNP_P4_152464_24598	NW_004516361.1	Scaffold1051	24598	AA	GG	1946992784
SNP_P4_152465_24609	NW_004516361.1	Scaffold1051	24609	CC	AA	1946992786
SNP_P4_152466_24673	NW_004516361.1	Scaffold1051	24673	AA	CC	1946992788
SNP_P4_152467_25610	NW_004516361.1	Scaffold1051	25610	CC	TT	1946992790
SNP_P4_152468_30559	NW_004516361.1	Scaffold1051	30559	AA	GG	1946992792
SNP_P4_152469_30560	NW_004516361.1	Scaffold1051	30560	AA	GG	1946992794
SNP_P4_152470_49998	NW_004516361.1	Scaffold1051	49998	TT	CC	1946992796
SNP_P4_152471_51633	NW_004516361.1	Scaffold1051	51633	AA	GG	1946992798
SNP_P4_152472_51640	NW_004516361.1	Scaffold1051	51640	TT	CC	1946992800
SNP_P4_152473_51645	NW_004516361.1	Scaffold1051	51645	TT	AA	1946992802
SNP_P4_152474_73789	NW_004516361.1	Scaffold1051	73789	TT	GG	1946992804
SNP_P4_152475_75024	NW_004516361.1	Scaffold1051	75024	TT	CC	1946992806
SNP_P4_152476_6777	NW_004516362.1	Scaffold1052	6777	CC	AA	1946992808
SNP_P4_152477_7831	NW_004516362.1	Scaffold1052	7831	AA	GG	1946992810
SNP_P4_152478_7835	NW_004516362.1	Scaffold1052	7835	TT	CC	1946992812
SNP_P4_152479_10419	NW_004516362.1	Scaffold1052	10419	GG	AA	1946992814

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_152483_16058	NW_004516362.1	Scaffold1052	16058	GG	TT	1946992820
SNP_P4_152484_16417	NW_004516362.1	Scaffold1052	16417	TT	AA	1946992822
SNP_P4_152486_16519	NW_004516362.1	Scaffold1052	16519	AA	GG	1946992824
SNP_P4_152487_16532	NW_004516362.1	Scaffold1052	16532	AA	GG	1946992826
SNP_P4_152488_16590	NW_004516362.1	Scaffold1052	16590	TT	CC	1946992828
SNP_P4_152489_17296	NW_004516362.1	Scaffold1052	17296	TT	CC	1946992830
SNP_P4_152490_17556	NW_004516362.1	Scaffold1052	17556	AA	TT	1946992832
SNP_P4_152491_17679	NW_004516362.1	Scaffold1052	17679	AA	CC	1946992834
SNP_P4_152492_41455	NW_004516362.1	Scaffold1052	41455	TT	CC	1946992836
SNP_P4_152493_50408	NW_004516362.1	Scaffold1052	50408	AA	GG	1946992838
SNP_P4_152494_50716	NW_004516362.1	Scaffold1052	50716	AA	GG	1946992840
SNP_P4_152495_55022	NW_004516362.1	Scaffold1052	55022	GG	CC	1946992842
SNP_P4_152496_55460	NW_004516362.1	Scaffold1052	55460	TT	CC	1946992844
SNP_P4_152497_55473	NW_004516362.1	Scaffold1052	55473	AA	GG	1946992847
SNP_P4_152498_55474	NW_004516362.1	Scaffold1052	55474	AA	GG	1946992849
SNP_P4_152499_57349	NW_004516362.1	Scaffold1052	57349	TT	CC	1946992851
SNP_P4_152500_57355	NW_004516362.1	Scaffold1052	57355	TT	CC	1946992853
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SNP_P4_152502_57460	NW_004516362.1	Scaffold1052	57460	GG	AA	1946992857
SNP_P4_152503_57760	NW_004516362.1	Scaffold1052	57760	GG	AA	1946992859
SNP_P4_152504_58872	NW_004516362.1	Scaffold1052	58872	GG	AA	1946992861
SNP_P4_152505_76492	NW_004516362.1	Scaffold1052	76492	GG	AA	1946992864
SNP_P4_152506_76499	NW_004516362.1	Scaffold1052	76499	AA	GG	1946992866
SNP_P4_152507_76506	NW_004516362.1	Scaffold1052	76506	AA	CC	1946992868
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SNP_P4_152510_77643	NW_004516362.1	Scaffold1052	77643	GG	AA	1946992874
SNP_P4_152511_77677	NW_004516362.1	Scaffold1052	77677	TT	AA	1946992876
SNP_P4_152512_89002	NW_004516362.1	Scaffold1052	89002	GG	TT	1946992878
SNP_P4_152513_91863	NW_004516362.1	Scaffold1052	91863	TT	GG	1946992880
SNP_P4_152514_91879	NW_004516362.1	Scaffold1052	91879	CC	TT	1946992882
SNP_P4_152515_91892	NW_004516362.1	Scaffold1052	91892	TT	CC	1946992884
SNP_P4_152516_100158	NW_004516362.1	Scaffold1052	100158	CC	AA	1946992886
SNP_P4_152517_100474	NW_004516362.1	Scaffold1052	100474	CC	AA	1946992888
SNP_P4_152518_103357	NW_004516362.1	Scaffold1052	103357	TT	GG	1946992890
SNP_P4_152519_103691	NW_004516362.1	Scaffold1052	103691	AA	GG	1946992892
SNP_P4_152520_103709	NW_004516362.1	Scaffold1052	103709	AA	GG	1946992894
SNP_P4_152522_113030	NW_004516362.1	Scaffold1052	113030	TT	CC	1946992896
SNP_P4_152523_134260	NW_004516362.1	Scaffold1052	134260	AA	TT	1946992898
SNP_P4_152524_134276	NW_004516362.1	Scaffold1052	134276	TT	GG	1946992900

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_152525_134279	NW_004516362.1	Scaffold1052	134279	GG	AA	1946992902
SNP_P4_152526_134284	NW_004516362.1	Scaffold1052	134284	AA	GG	1946992904
SNP_P4_152527_134457	NW_004516362.1	Scaffold1052	134457	TT	AA	1946992906
SNP_P4_152528_134536	NW_004516362.1	Scaffold1052	134536	GG	CC	1946992908
SNP_P4_152529_135006	NW_004516362.1	Scaffold1052	135006	AA	TT	1946992910
SNP_P4_152530_140139	NW_004516362.1	Scaffold1052	140139	TT	AA	1946992912
SNP_P4_152531_140171	NW_004516362.1	Scaffold1052	140171	TT	CC	1946992914
SNP_P4_152532_155970	NW_004516362.1	Scaffold1052	155970	AA	GG	1946992916
SNP_P4_152533_156505	NW_004516362.1	Scaffold1052	156505	CC	TT	1946992918
SNP_P4_152534_166649	NW_004516362.1	Scaffold1052	166649	GG	AA	1946992920
SNP_P4_152535_171167	NW_004516362.1	Scaffold1052	171167	CC	AA	1946992922
SNP_P4_152536_171169	NW_004516362.1	Scaffold1052	171169	AA	GG	1946992924
SNP_P4_152537_171247	NW_004516362.1	Scaffold1052	171247	AA	GG	1946992926
SNP_P4_152538_171525	NW_004516362.1	Scaffold1052	171525	GG	AA	1946992928
SNP_P4_152539_171592	NW_004516362.1	Scaffold1052	171592	GG	AA	1946992930
SNP_P4_152540_171611	NW_004516362.1	Scaffold1052	171611	AA	TT	1946992932
SNP_P4_152541_175919	NW_004516362.1	Scaffold1052	175919	GG	CC	1946992934
SNP_P4_152542_175968	NW_004516362.1	Scaffold1052	175968	AA	GG	1946992936
SNP_P4_152543_175976	NW_004516362.1	Scaffold1052	175976	GG	AA	1946992938
SNP_P4_152544_180776	NW_004516362.1	Scaffold1052	180776	CC	TT	1946992940
SNP_P4_152545_183724	NW_004516362.1	Scaffold1052	183724	TT	CC	1946992942
SNP_P4_152546_183736	NW_004516362.1	Scaffold1052	183736	GG	TT	1946992944
SNP_P4_152547_183743	NW_004516362.1	Scaffold1052	183743	TT	CC	1946992946
SNP_P4_152548_186589	NW_004516362.1	Scaffold1052	186589	TT	AA	1946992948
SNP_P4_152549_186605	NW_004516362.1	Scaffold1052	186605	AA	TT	1946992950
SNP_P4_152550_186690	NW_004516362.1	Scaffold1052	186690	GG	TT	1946992952
SNP_P4_152551_186961	NW_004516362.1	Scaffold1052	186961	TT	CC	1946992954
SNP_P4_152552_186974	NW_004516362.1	Scaffold1052	186974	GG	AA	1946992956
SNP_P4_152553_195379	NW_004516362.1	Scaffold1052	195379	TT	GG	1946992958
SNP_P4_152554_215753	NW_004516362.1	Scaffold1052	215753	CC	GG	1946992960
SNP_P4_152556_216136	NW_004516362.1	Scaffold1052	216136	CC	TT	1946992962
SNP_P4_152558_226392	NW_004516362.1	Scaffold1052	226392	TT	CC	1946992964
SNP_P4_152559_226753	NW_004516362.1	Scaffold1052	226753	TT	CC	1946992966
SNP_P4_152560_233182	NW_004516362.1	Scaffold1052	233182	CC	TT	1946992968
SNP_P4_152561_233245	NW_004516362.1	Scaffold1052	233245	CC	TT	1946992970
SNP_P4_152563_233482	NW_004516362.1	Scaffold1052	233482	AA	GG	1946992972
SNP_P4_152564_233513	NW_004516362.1	Scaffold1052	233513	CC	TT	1946992974
SNP_P4_152565_244396	NW_004516362.1	Scaffold1052	244396	AA	GG	1946992976
SNP_P4_152566_252116	NW_004516362.1	Scaffold1052	252116	AA	GG	1946992978
SNP_P4_152567_252443	NW_004516362.1	Scaffold1052	252443	TT	AA	1946992980
SNP_P4_152568_252570	NW_004516362.1	Scaffold1052	252570	GG	AA	1946992982
SNP_P4_152570_260148	NW_004516362.1	Scaffold1052	260148	CC	TT	1946992984

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_152573_278526	NW_004516362.1	Scaffold1052	278526	TT	CC	1946992988
SNP_P4_152574_278604	NW_004516362.1	Scaffold1052	278604	TT	GG	1946992990
SNP_P4_152575_278766	NW_004516362.1	Scaffold1052	278766	TT	AA	1946992992
SNP_P4_152576_281965	NW_004516362.1	Scaffold1052	281965	AA	TT	1946992994
SNP_P4_152577_282008	NW_004516362.1	Scaffold1052	282008	CC	TT	1946992996
SNP_P4_152578_282873	NW_004516362.1	Scaffold1052	282873	GG	AA	1946992998
SNP_P4_152579_295373	NW_004516362.1	Scaffold1052	295373	CC	TT	1946993001
SNP_P4_152580_295377	NW_004516362.1	Scaffold1052	295377	TT	AA	1946993003
SNP_P4_152581_295740	NW_004516362.1	Scaffold1052	295740	AA	GG	1946993005
SNP_P4_152582_303246	NW_004516362.1	Scaffold1052	303246	AA	GG	1946993007
SNP_P4_152583_303274	NW_004516362.1	Scaffold1052	303274	CC	TT	1946993009
SNP_P4_152584_303304	NW_004516362.1	Scaffold1052	303304	TT	CC	1946993011
SNP_P4_152586_303348	NW_004516362.1	Scaffold1052	303348	GG	TT	1946993013
SNP_P4_152587_303457	NW_004516362.1	Scaffold1052	303457	CC	TT	1946993015
SNP_P4_152588_305183	NW_004516362.1	Scaffold1052	305183	TT	CC	1946993017
SNP_P4_152589_305208	NW_004516362.1	Scaffold1052	305208	TT	CC	1946993019
SNP_P4_152590_305283	NW_004516362.1	Scaffold1052	305283	GG	AA	1946993021
SNP_P4_152592_322769	NW_004516362.1	Scaffold1052	322769	GG	AA	1946993023
SNP_P4_152593_326842	NW_004516362.1	Scaffold1052	326842	GG	TT	1946993025
SNP_P4_152595_339698	NW_004516362.1	Scaffold1052	339698	TT	CC	1946993027
SNP_P4_152596_339704	NW_004516362.1	Scaffold1052	339704	AA	GG	1946993030
SNP_P4_152597_339766	NW_004516362.1	Scaffold1052	339766	CC	AA	1946993032
SNP_P4_152598_339779	NW_004516362.1	Scaffold1052	339779	AA	TT	1946993034
SNP_P4_152599_113	NW_004516364.1	Scaffold1055	113	AA	GG	1946993036
SNP_P4_152600_524	NW_004516364.1	Scaffold1055	524	AA	GG	1946993038
SNP_P4_152601_13448	NW_004516364.1	Scaffold1055	13448	TT	CC	1946993040
SNP_P4_152602_16209	NW_004516364.1	Scaffold1055	16209	GG	AA	1946993042
SNP_P4_152604_17448	NW_004516364.1	Scaffold1055	17448	TT	GG	1946993044
SNP_P4_152605_24453	NW_004516364.1	Scaffold1055	24453	CC	TT	1946993046
SNP_P4_152606_28131	NW_004516364.1	Scaffold1055	28131	TT	CC	1946993048
SNP_P4_152608_50387	NW_004516364.1	Scaffold1055	50387	TT	GG	1946993050
SNP_P4_152609_50412	NW_004516364.1	Scaffold1055	50412	TT	AA	1946993052
SNP_P4_152610_50880	NW_004516364.1	Scaffold1055	50880	TT	GG	1946993054
SNP_P4_152611_56120	NW_004516364.1	Scaffold1055	56120	AA	GG	1946993056
SNP_P4_152613_56414	NW_004516364.1	Scaffold1055	56414	TT	CC	1946993058
SNP_P4_152614_56418	NW_004516364.1	Scaffold1055	56418	CC	GG	1946993060
SNP_P4_152615_56600	NW_004516364.1	Scaffold1055	56600	GG	TT	1946993062
SNP_P4_152616_62281	NW_004516364.1	Scaffold1055	62281	GG	AA	1946993064
SNP_P4_152617_62642	NW_004516364.1	Scaffold1055	62642	GG	AA	1946993066
SNP_P4_152618_62643	NW_004516364.1	Scaffold1055	62643	AA	GG	1946993068
SNP_P4_152619_62654	NW_004516364.1	Scaffold1055	62654	TT	CC	1946993070

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_152621_107339	NW_004516364.1	Scaffold1055	107339	CC	TT	1946993074
SNP_P4_152622_115757	NW_004516364.1	Scaffold1055	115757	TT	AA	1946993076
SNP_P4_152623_115762	NW_004516364.1	Scaffold1055	115762	TT	CC	1946993078
SNP_P4_152624_122906	NW_004516364.1	Scaffold1055	122906	GG	CC	1946993080
SNP_P4_152625_122911	NW_004516364.1	Scaffold1055	122911	TT	AA	1946993082
SNP_P4_152626_122970	NW_004516364.1	Scaffold1055	122970	GG	TT	1946993084
SNP_P4_152627_129231	NW_004516364.1	Scaffold1055	129231	CC	TT	1946993086
SNP_P4_152628_129237	NW_004516364.1	Scaffold1055	129237	TT	AA	1946993088
SNP_P4_152629_132118	NW_004516364.1	Scaffold1055	132118	TT	CC	1946993090
SNP_P4_152630_137852	NW_004516364.1	Scaffold1055	137852	AA	GG	1946993092
SNP_P4_152631_142224	NW_004516364.1	Scaffold1055	142224	GG	AA	1946993094
SNP_P4_152632_142252	NW_004516364.1	Scaffold1055	142252	CC	TT	1946993096
SNP_P4_152633_142473	NW_004516364.1	Scaffold1055	142473	TT	CC	1946993098
SNP_P4_152634_142661	NW_004516364.1	Scaffold1055	142661	AA	GG	1946993100
SNP_P4_152635_142714	NW_004516364.1	Scaffold1055	142714	GG	TT	1946993102
SNP_P4_152636_142837	NW_004516364.1	Scaffold1055	142837	GG	AA	1946993104
SNP_P4_152637_142841	NW_004516364.1	Scaffold1055	142841	CC	GG	1946993106
SNP_P4_152638_146720	NW_004516364.1	Scaffold1055	146720	GG	AA	1946993108
SNP_P4_152639_148229	NW_004516364.1	Scaffold1055	148229	TT	AA	1946993110
SNP_P4_152640_149138	NW_004516364.1	Scaffold1055	149138	TT	AA	1946993112
SNP_P4_152642_172000	NW_004516364.1	Scaffold1055	172000	AA	GG	1946993114
SNP_P4_152643_172033	NW_004516364.1	Scaffold1055	172033	GG	AA	1946993116
SNP_P4_152644_172049	NW_004516364.1	Scaffold1055	172049	TT	CC	1946993118
SNP_P4_152645_172064	NW_004516364.1	Scaffold1055	172064	AA	TT	1946993120
SNP_P4_152646_172207	NW_004516364.1	Scaffold1055	172207	TT	CC	1946993122
SNP_P4_152647_172375	NW_004516364.1	Scaffold1055	172375	AA	TT	1946993124
SNP_P4_152648_172522	NW_004516364.1	Scaffold1055	172522	CC	TT	1946993126
SNP_P4_152649_172527	NW_004516364.1	Scaffold1055	172527	TT	AA	1946993128
SNP_P4_152650_172552	NW_004516364.1	Scaffold1055	172552	CC	AA	1946993130
SNP_P4_152651_172584	NW_004516364.1	Scaffold1055	172584	AA	GG	1946993132
SNP_P4_152652_178744	NW_004516364.1	Scaffold1055	178744	TT	AA	1946993134
SNP_P4_152654_195573	NW_004516364.1	Scaffold1055	195573	TT	GG	1946993136
SNP_P4_152655_197566	NW_004516364.1	Scaffold1055	197566	CC	TT	1946993138
SNP_P4_152656_198082	NW_004516364.1	Scaffold1055	198082	CC	TT	1946993140
SNP_P4_152657_198090	NW_004516364.1	Scaffold1055	198090	CC	TT	1946993142
SNP_P4_152658_198101	NW_004516364.1	Scaffold1055	198101	CC	AA	1946993144
SNP_P4_152659_198115	NW_004516364.1	Scaffold1055	198115	TT	GG	1946993146
SNP_P4_152660_198120	NW_004516364.1	Scaffold1055	198120	GG	AA	1946993148
SNP_P4_152661_198284	NW_004516364.1	Scaffold1055	198284	CC	TT	1946993150
SNP_P4_152662_198301	NW_004516364.1	Scaffold1055	198301	GG	TT	1946993152
SNP_P4_152663_198309	NW_004516364.1	Scaffold1055	198309	TT	CC	1946993154

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_152665_198340	NW_004516364.1	Scaffold1055	198340	TT	AA	1946993158
SNP_P4_152666_198384	NW_004516364.1	Scaffold1055	198384	CC	AA	1946993160
SNP_P4_152667_198386	NW_004516364.1	Scaffold1055	198386	GG	AA	1946993162
SNP_P4_152668_198407	NW_004516364.1	Scaffold1055	198407	TT	AA	1946993164
SNP_P4_152669_198413	NW_004516364.1	Scaffold1055	198413	CC	TT	1946993166
SNP_P4_152670_198416	NW_004516364.1	Scaffold1055	198416	GG	AA	1946993168
SNP_P4_152671_198429	NW_004516364.1	Scaffold1055	198429	CC	TT	1946993170
SNP_P4_152672_201198	NW_004516364.1	Scaffold1055	201198	TT	CC	1946993172
SNP_P4_152673_201257	NW_004516364.1	Scaffold1055	201257	AA	TT	1946993174
SNP_P4_152674_202843	NW_004516364.1	Scaffold1055	202843	GG	CC	1946993176
SNP_P4_152676_205825	NW_004516364.1	Scaffold1055	205825	CC	TT	1946993178
SNP_P4_152677_205971	NW_004516364.1	Scaffold1055	205971	TT	AA	1946993180
SNP_P4_152678_213514	NW_004516364.1	Scaffold1055	213514	AA	TT	1946993182
SNP_P4_152679_214073	NW_004516364.1	Scaffold1055	214073	AA	CC	1946993185
SNP_P4_152680_217647	NW_004516364.1	Scaffold1055	217647	TT	CC	1946993187
SNP_P4_152681_218051	NW_004516364.1	Scaffold1055	218051	TT	CC	1946993189
SNP_P4_152682_218072	NW_004516364.1	Scaffold1055	218072	GG	AA	1946993191
SNP_P4_152683_218165	NW_004516364.1	Scaffold1055	218165	AA	GG	1946993193
SNP_P4_152684_218173	NW_004516364.1	Scaffold1055	218173	TT	CC	1946993195
SNP_P4_152685_218223	NW_004516364.1	Scaffold1055	218223	CC	TT	1946993197
SNP_P4_152686_218241	NW_004516364.1	Scaffold1055	218241	AA	CC	1946993199
SNP_P4_152687_218891	NW_004516364.1	Scaffold1055	218891	TT	CC	1946993201
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SNP_P4_152691_239690	NW_004516364.1	Scaffold1055	239690	TT	GG	1946993209
SNP_P4_152692_239779	NW_004516364.1	Scaffold1055	239779	TT	CC	1946993211
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SNP_P4_152694_247741	NW_004516364.1	Scaffold1055	247741	AA	GG	1946993215
SNP_P4_152695_251462	NW_004516364.1	Scaffold1055	251462	GG	CC	1946993217
SNP_P4_152696_251834	NW_004516364.1	Scaffold1055	251834	AA	GG	1946993219
SNP_P4_152697_279010	NW_004516364.1	Scaffold1055	279010	CC	TT	1946993222
SNP_P4_152698_280231	NW_004516364.1	Scaffold1055	280231	TT	AA	1946993224
SNP_P4_152699_284001	NW_004516364.1	Scaffold1055	284001	GG	CC	1946993226
SNP_P4_152700_288124	NW_004516364.1	Scaffold1055	288124	TT	CC	1946993228
SNP_P4_152701_304134	NW_004516364.1	Scaffold1055	304134	TT	CC	1946993230
SNP_P4_152702_318027	NW_004516364.1	Scaffold1055	318027	AA	GG	1946993232
SNP_P4_152703_318075	NW_004516364.1	Scaffold1055	318075	GG	AA	1946993234
SNP_P4_152704_318220	NW_004516364.1	Scaffold1055	318220	GG	TT	1946993236
SNP_P4_152705_318328	NW_004516364.1	Scaffold1055	318328	AA	CC	1946993238
SNP_P4_152706_318393	NW_004516364.1	Scaffold1055	318393	TT	AA	1946993240

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_152708_318503	NW_004516364.1	Scaffold1055	318503	TT	CC	1946993244
SNP_P4_152709_318573	NW_004516364.1	Scaffold1055	318573	CC	TT	1946993247
SNP_P4_152710_324585	NW_004516364.1	Scaffold1055	324585	GG	AA	1946993249
SNP_P4_152711_324999	NW_004516364.1	Scaffold1055	324999	GG	AA	1946993251
SNP_P4_152712_326472	NW_004516364.1	Scaffold1055	326472	CC	AA	1946993253
SNP_P4_152713_326483	NW_004516364.1	Scaffold1055	326483	AA	GG	1946993255
SNP_P4_152714_326512	NW_004516364.1	Scaffold1055	326512	AA	GG	1946993257
SNP_P4_152715_335468	NW_004516364.1	Scaffold1055	335468	CC	TT	1946993259
SNP_P4_152716_339166	NW_004516364.1	Scaffold1055	339166	GG	AA	1946993261
SNP_P4_152717_339184	NW_004516364.1	Scaffold1055	339184	AA	GG	1946993263
SNP_P4_152718_339203	NW_004516364.1	Scaffold1055	339203	AA	CC	1946993265
SNP_P4_152719_339245	NW_004516364.1	Scaffold1055	339245	CC	GG	1946993267
SNP_P4_152720_339267	NW_004516364.1	Scaffold1055	339267	CC	TT	1946993269
SNP_P4_152722_339340	NW_004516364.1	Scaffold1055	339340	TT	AA	1946993271
SNP_P4_152723_339412	NW_004516364.1	Scaffold1055	339412	TT	AA	1946993273
SNP_P4_152724_339510	NW_004516364.1	Scaffold1055	339510	TT	GG	1946993275
SNP_P4_152725_339562	NW_004516364.1	Scaffold1055	339562	GG	AA	1946993277
SNP_P4_152726_339576	NW_004516364.1	Scaffold1055	339576	CC	TT	1946993279
SNP_P4_152727_339577	NW_004516364.1	Scaffold1055	339577	GG	AA	1946993281
SNP_P4_152728_339590	NW_004516364.1	Scaffold1055	339590	CC	TT	1946993283
SNP_P4_152729_339619	NW_004516364.1	Scaffold1055	339619	GG	AA	1946993285
SNP_P4_152730_339624	NW_004516364.1	Scaffold1055	339624	AA	GG	1946993287
SNP_P4_152731_339717	NW_004516364.1	Scaffold1055	339717	TT	AA	1946993289
SNP_P4_152732_339744	NW_004516364.1	Scaffold1055	339744	CC	TT	1946993291
SNP_P4_152733_339752	NW_004516364.1	Scaffold1055	339752	CC	TT	1946993294
SNP_P4_152734_339776	NW_004516364.1	Scaffold1055	339776	AA	GG	1946993296
SNP_P4_152735_339786	NW_004516364.1	Scaffold1055	339786	GG	AA	1946993298
SNP_P4_152736_339812	NW_004516364.1	Scaffold1055	339812	AA	GG	1946993300
SNP_P4_152737_339831	NW_004516364.1	Scaffold1055	339831	TT	AA	1946993302
SNP_P4_152738_339851	NW_004516364.1	Scaffold1055	339851	AA	GG	1946993304
SNP_P4_152739_339872	NW_004516364.1	Scaffold1055	339872	GG	AA	1946993306
SNP_P4_152740_339932	NW_004516364.1	Scaffold1055	339932	AA	TT	1946993308
SNP_P4_152741_339945	NW_004516364.1	Scaffold1055	339945	CC	AA	1946993310
SNP_P4_152742_339981	NW_004516364.1	Scaffold1055	339981	CC	AA	1946993312
SNP_P4_152743_340005	NW_004516364.1	Scaffold1055	340005	TT	GG	1946993314
SNP_P4_152745_340108	NW_004516364.1	Scaffold1055	340108	TT	AA	1946993316
SNP_P4_152746_340136	NW_004516364.1	Scaffold1055	340136	AA	GG	1946993318
SNP_P4_152747_340138	NW_004516364.1	Scaffold1055	340138	CC	TT	1946993320
SNP_P4_152748_340172	NW_004516364.1	Scaffold1055	340172	CC	TT	1946993322
SNP_P4_152749_340328	NW_004516364.1	Scaffold1055	340328	GG	AA	1946993325
SNP_P4_152750_340329	NW_004516364.1	Scaffold1055	340329	AA	TT	1946993327

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_152752_340355	NW_004516364.1	Scaffold1055	340355	AA	CC	1946993329
SNP_P4_152753_340393	NW_004516364.1	Scaffold1055	340393	CC	TT	1946993331
SNP_P4_152754_340397	NW_004516364.1	Scaffold1055	340397	AA	GG	1946993333
SNP_P4_152756_340545	NW_004516364.1	Scaffold1055	340545	TT	CC	1946993335
SNP_P4_152757_340581	NW_004516364.1	Scaffold1055	340581	TT	CC	1946993337
SNP_P4_152758_340602	NW_004516364.1	Scaffold1055	340602	TT	CC	1946993339
SNP_P4_152760_340743	NW_004516364.1	Scaffold1055	340743	TT	AA	1946993341
SNP_P4_152761_340774	NW_004516364.1	Scaffold1055	340774	TT	GG	1946993343
SNP_P4_152762_340786	NW_004516364.1	Scaffold1055	340786	AA	GG	1946993345
SNP_P4_152763_340824	NW_004516364.1	Scaffold1055	340824	TT	CC	1946993347
SNP_P4_152764_340841	NW_004516364.1	Scaffold1055	340841	TT	CC	1946993349
SNP_P4_152765_340847	NW_004516364.1	Scaffold1055	340847	CC	TT	1946993351
SNP_P4_152766_341143	NW_004516364.1	Scaffold1055	341143	AA	GG	1946993353
SNP_P4_152767_341159	NW_004516364.1	Scaffold1055	341159	CC	TT	1946993355
SNP_P4_152768_341181	NW_004516364.1	Scaffold1055	341181	GG	AA	1946993357
SNP_P4_152769_341198	NW_004516364.1	Scaffold1055	341198	TT	CC	1946993359
SNP_P4_152770_341207	NW_004516364.1	Scaffold1055	341207	GG	TT	1946993361
SNP_P4_152771_341251	NW_004516364.1	Scaffold1055	341251	AA	GG	1946993363
SNP_P4_152772_341288	NW_004516364.1	Scaffold1055	341288	TT	CC	1946993365
SNP_P4_152773_341298	NW_004516364.1	Scaffold1055	341298	TT	AA	1946993367
SNP_P4_152774_341323	NW_004516364.1	Scaffold1055	341323	GG	AA	1946993370
SNP_P4_152775_342879	NW_004516364.1	Scaffold1055	342879	TT	CC	1946993372
SNP_P4_152776_343685	NW_004516364.1	Scaffold1055	343685	GG	AA	1946993374
SNP_P4_152777_15371	NW_004516365.1	Scaffold1056	15371	TT	AA	1946993376
SNP_P4_152778_23308	NW_004516365.1	Scaffold1056	23308	AA	CC	1946993378
SNP_P4_152779_26801	NW_004516365.1	Scaffold1056	26801	AA	GG	1946993380
SNP_P4_152780_26860	NW_004516365.1	Scaffold1056	26860	TT	GG	1946993382
SNP_P4_152781_26901	NW_004516365.1	Scaffold1056	26901	TT	CC	1946993384
SNP_P4_152782_26905	NW_004516365.1	Scaffold1056	26905	TT	CC	1946993386
SNP_P4_152783_27244	NW_004516365.1	Scaffold1056	27244	GG	AA	1946993388
SNP_P4_152784_32180	NW_004516365.1	Scaffold1056	32180	TT	CC	1946993390
SNP_P4_152785_68926	NW_004516365.1	Scaffold1056	68926	AA	TT	1946993392
SNP_P4_152786_68936	NW_004516365.1	Scaffold1056	68936	CC	TT	1946993394
SNP_P4_152787_68960	NW_004516365.1	Scaffold1056	68960	AA	CC	1946993396
SNP_P4_152788_68977	NW_004516365.1	Scaffold1056	68977	TT	GG	1946993398
SNP_P4_152790_127889	NW_004516365.1	Scaffold1056	127889	GG	AA	1946993400
SNP_P4_152791_128944	NW_004516365.1	Scaffold1056	128944	TT	AA	1946993402
SNP_P4_152796_1263	NW_004516368.1	Scaffold1059	1263	AA	GG	1946993404
SNP_P4_152797_1327	NW_004516368.1	Scaffold1059	1327	GG	CC	1946993406
SNP_P4_152798_1709	NW_004516368.1	Scaffold1059	1709	CC	TT	1946993408
SNP_P4_152799_1993	NW_004516368.1	Scaffold1059	1993	TT	GG	1946993410
SNP_P4_152800_2041	NW_004516368.1	Scaffold1059	2041	TT	AA	1946993412

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_152802_511	NW_004516369.1	Scaffold1060	511	CC	TT	1946993416
SNP_P4_152803_567	NW_004516369.1	Scaffold1060	567	AA	GG	1946993418
SNP_P4_152804_632	NW_004516369.1	Scaffold1060	632	TT	CC	1946993420
SNP_P4_152805_724	NW_004516369.1	Scaffold1060	724	TT	CC	1946993422
SNP_P4_152806_725	NW_004516369.1	Scaffold1060	725	CC	TT	1946993424
SNP_P4_152807_731	NW_004516369.1	Scaffold1060	731	TT	CC	1946993426
SNP_P4_152808_732	NW_004516369.1	Scaffold1060	732	CC	TT	1946993428
SNP_P4_152809_809	NW_004516369.1	Scaffold1060	809	TT	AA	1946993430
SNP_P4_152810_810	NW_004516369.1	Scaffold1060	810	CC	AA	1946993432
SNP_P4_152811_856	NW_004516369.1	Scaffold1060	856	AA	GG	1946993434
SNP_P4_152812_6569	NW_004516369.1	Scaffold1060	6569	TT	GG	1946993436
SNP_P4_152813_31182	NW_004516369.1	Scaffold1060	31182	GG	AA	1946993438
SNP_P4_152814_31202	NW_004516369.1	Scaffold1060	31202	GG	AA	1946993440
SNP_P4_152815_33274	NW_004516369.1	Scaffold1060	33274	GG	AA	1946993442
SNP_P4_152816_33333	NW_004516369.1	Scaffold1060	33333	GG	AA	1946993444
SNP_P4_152817_33763	NW_004516369.1	Scaffold1060	33763	AA	GG	1946993446
SNP_P4_152818_96252	NW_004516369.1	Scaffold1060	96252	CC	TT	1946993448
SNP_P4_152819_166669	NW_004516369.1	Scaffold1060	166669	GG	AA	1946993450
SNP_P4_152820_170053	NW_004516369.1	Scaffold1060	170053	GG	AA	1946993452
SNP_P4_152821_170054	NW_004516369.1	Scaffold1060	170054	TT	CC	1946993454
SNP_P4_152822_170224	NW_004516369.1	Scaffold1060	170224	GG	TT	1946993456
SNP_P4_152823_170228	NW_004516369.1	Scaffold1060	170228	TT	GG	1946993458
SNP_P4_152824_170252	NW_004516369.1	Scaffold1060	170252	CC	AA	1946993460
SNP_P4_152825_170273	NW_004516369.1	Scaffold1060	170273	GG	AA	1946993462
SNP_P4_152826_170344	NW_004516369.1	Scaffold1060	170344	AA	GG	1946993464
SNP_P4_152827_170347	NW_004516369.1	Scaffold1060	170347	TT	CC	1946993466
SNP_P4_152828_170378	NW_004516369.1	Scaffold1060	170378	TT	AA	1946993468
SNP_P4_152829_170398	NW_004516369.1	Scaffold1060	170398	CC	TT	1946993470
SNP_P4_152830_170469	NW_004516369.1	Scaffold1060	170469	AA	GG	1946993472
SNP_P4_152831_170480	NW_004516369.1	Scaffold1060	170480	AA	GG	1946993474
SNP_P4_152832_170533	NW_004516369.1	Scaffold1060	170533	AA	CC	1946993477
SNP_P4_152833_183379	NW_004516369.1	Scaffold1060	183379	GG	AA	1946993479
SNP_P4_152834_280980	NW_004516369.1	Scaffold1060	280980	AA	GG	1946993481
SNP_P4_152835_292303	NW_004516369.1	Scaffold1060	292303	GG	AA	1946993483
SNP_P4_152836_292656	NW_004516369.1	Scaffold1060	292656	CC	TT	1946993485
SNP_P4_152837_302260	NW_004516369.1	Scaffold1060	302260	TT	CC	1946993487
SNP_P4_152838_303519	NW_004516369.1	Scaffold1060	303519	TT	CC	1946993489
SNP_P4_152839_303542	NW_004516369.1	Scaffold1060	303542	TT	CC	1946993492
SNP_P4_152841_346747	NW_004516369.1	Scaffold1060	346747	AA	GG	1946993494
SNP_P4_152842_346751	NW_004516369.1	Scaffold1060	346751	GG	CC	1946993496
SNP_P4_152843_369677	NW_004516369.1	Scaffold1060	369677	GG	AA	1946993498

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_152845_399596	NW_004516369.1	Scaffold1060	399596	AA	GG	1946993502
SNP_P4_152846_406528	NW_004516369.1	Scaffold1060	406528	TT	AA	1946993505
SNP_P4_152847_453547	NW_004516369.1	Scaffold1060	453547	TT	GG	1946993507
SNP_P4_152849_483027	NW_004516369.1	Scaffold1060	483027	GG	AA	1946993509
SNP_P4_152850_1421	NW_004516370.1	Scaffold1061	1421	GG	AA	1946993511
SNP_P4_152851_1909	NW_004516370.1	Scaffold1061	1909	TT	CC	1946993513
SNP_P4_152852_2014	NW_004516370.1	Scaffold1061	2014	CC	GG	1946993515
SNP_P4_152853_2069	NW_004516370.1	Scaffold1061	2069	GG	AA	1946993517
SNP_P4_152854_2144	NW_004516370.1	Scaffold1061	2144	GG	AA	1946993519
SNP_P4_152855_2355	NW_004516370.1	Scaffold1061	2355	AA	GG	1946993521
SNP_P4_152856_2410	NW_004516370.1	Scaffold1061	2410	GG	AA	1946993523
SNP_P4_152857_2428	NW_004516370.1	Scaffold1061	2428	AA	TT	1946993525
SNP_P4_152858_2429	NW_004516370.1	Scaffold1061	2429	TT	CC	1946993527
SNP_P4_152859_4421	NW_004516370.1	Scaffold1061	4421	CC	AA	1946993529
SNP_P4_152860_6949	NW_004516370.1	Scaffold1061	6949	CC	TT	1946993531
SNP_P4_152861_7256	NW_004516370.1	Scaffold1061	7256	TT	CC	1946993533
SNP_P4_152862_7568	NW_004516370.1	Scaffold1061	7568	AA	GG	1946993535
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SNP_P4_152864_7591	NW_004516370.1	Scaffold1061	7591	CC	AA	1946993539
SNP_P4_152865_7605	NW_004516370.1	Scaffold1061	7605	CC	GG	1946993541
SNP_P4_152866_9573	NW_004516370.1	Scaffold1061	9573	GG	AA	1946993543
SNP_P4_152867_9644	NW_004516370.1	Scaffold1061	9644	TT	GG	1946993545
SNP_P4_152868_11488	NW_004516370.1	Scaffold1061	11488	AA	TT	1946993547
SNP_P4_152869_11509	NW_004516370.1	Scaffold1061	11509	AA	GG	1946993549
SNP_P4_152870_11525	NW_004516370.1	Scaffold1061	11525	AA	GG	1946993551
SNP_P4_152871_11530	NW_004516370.1	Scaffold1061	11530	TT	CC	1946993553
SNP_P4_152872_11550	NW_004516370.1	Scaffold1061	11550	GG	CC	1946993555
SNP_P4_152873_11681	NW_004516370.1	Scaffold1061	11681	AA	GG	1946993557
SNP_P4_152874_11686	NW_004516370.1	Scaffold1061	11686	CC	TT	1946993559
SNP_P4_152875_20892	NW_004516370.1	Scaffold1061	20892	GG	AA	1946993561
SNP_P4_152876_20910	NW_004516370.1	Scaffold1061	20910	TT	CC	1946993563
SNP_P4_152877_20931	NW_004516370.1	Scaffold1061	20931	GG	AA	1946993565
SNP_P4_152879_21108	NW_004516370.1	Scaffold1061	21108	GG	TT	1946993567
SNP_P4_152880_21640	NW_004516370.1	Scaffold1061	21640	CC	AA	1946993569
SNP_P4_152881_27636	NW_004516370.1	Scaffold1061	27636	CC	TT	1946993571
SNP_P4_152883_28578	NW_004516370.1	Scaffold1061	28578	AA	GG	1946993573
SNP_P4_152884_28605	NW_004516370.1	Scaffold1061	28605	GG	AA	1946993575
SNP_P4_152885_28606	NW_004516370.1	Scaffold1061	28606	TT	AA	1946993577
SNP_P4_152886_28624	NW_004516370.1	Scaffold1061	28624	TT	CC	1946993579
SNP_P4_152887_28631	NW_004516370.1	Scaffold1061	28631	CC	AA	1946993581
SNP_P4_152888_28678	NW_004516370.1	Scaffold1061	28678	AA	GG	1946993583

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_152891_31628	NW_004516370.1	Scaffold1061	31628	GG	AA	1946993587
SNP_P4_152892_31633	NW_004516370.1	Scaffold1061	31633	TT	CC	1946993589
SNP_P4_152893_31722	NW_004516370.1	Scaffold1061	31722	TT	CC	1946993591
SNP_P4_152894_31732	NW_004516370.1	Scaffold1061	31732	CC	GG	1946993593
SNP_P4_152895_31888	NW_004516370.1	Scaffold1061	31888	TT	GG	1946993595
SNP_P4_152896_31900	NW_004516370.1	Scaffold1061	31900	GG	TT	1946993597
SNP_P4_152897_31954	NW_004516370.1	Scaffold1061	31954	AA	CC	1946993599
SNP_P4_152898_31959	NW_004516370.1	Scaffold1061	31959	GG	CC	1946993601
SNP_P4_152899_31969	NW_004516370.1	Scaffold1061	31969	AA	TT	1946993603
SNP_P4_152900_32089	NW_004516370.1	Scaffold1061	32089	GG	TT	1946993605
SNP_P4_152901_32128	NW_004516370.1	Scaffold1061	32128	TT	CC	1946993607
SNP_P4_152902_32234	NW_004516370.1	Scaffold1061	32234	TT	GG	1946993609
SNP_P4_152903_32858	NW_004516370.1	Scaffold1061	32858	AA	GG	1946993611
SNP_P4_152905_32907	NW_004516370.1	Scaffold1061	32907	GG	TT	1946993613
SNP_P4_152906_32935	NW_004516370.1	Scaffold1061	32935	TT	CC	1946993615
SNP_P4_152907_32941	NW_004516370.1	Scaffold1061	32941	AA	GG	1946993617
SNP_P4_152908_32972	NW_004516370.1	Scaffold1061	32972	TT	CC	1946993619
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SNP_P4_152911_33022	NW_004516370.1	Scaffold1061	33022	TT	CC	1946993623
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SNP_P4_152919_36198	NW_004516370.1	Scaffold1061	36198	CC	TT	1946993638
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SNP_P4_152923_36477	NW_004516370.1	Scaffold1061	36477	TT	CC	1946993646
SNP_P4_152924_36568	NW_004516370.1	Scaffold1061	36568	CC	AA	1946993648
SNP_P4_152925_37970	NW_004516370.1	Scaffold1061	37970	GG	AA	1946993650
SNP_P4_152926_38271	NW_004516370.1	Scaffold1061	38271	AA	GG	1946993652
SNP_P4_152927_38392	NW_004516370.1	Scaffold1061	38392	CC	AA	1946993654
SNP_P4_152928_38408	NW_004516370.1	Scaffold1061	38408	GG	CC	1946993656
SNP_P4_152929_39600	NW_004516370.1	Scaffold1061	39600	TT	CC	1946993658
SNP_P4_152930_39834	NW_004516370.1	Scaffold1061	39834	TT	CC	1946993660
SNP_P4_152931_39884	NW_004516370.1	Scaffold1061	39884	AA	GG	1946993662
SNP_P4_152932_39947	NW_004516370.1	Scaffold1061	39947	GG	TT	1946993664
SNP_P4_152933_41200	NW_004516370.1	Scaffold1061	41200	AA	CC	1946993666

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_152935_42650	NW_004516370.1	Scaffold1061	42650	CC	GG	1946993670
SNP_P4_152936_45902	NW_004516370.1	Scaffold1061	45902	CC	TT	1946993672
SNP_P4_152937_46224	NW_004516370.1	Scaffold1061	46224	AA	GG	1946993674
SNP_P4_152938_46439	NW_004516370.1	Scaffold1061	46439	GG	TT	1946993676
SNP_P4_152939_49441	NW_004516370.1	Scaffold1061	49441	AA	GG	1946993678
SNP_P4_152940_49599	NW_004516370.1	Scaffold1061	49599	CC	AA	1946993680
SNP_P4_152941_49638	NW_004516370.1	Scaffold1061	49638	AA	GG	1946993682
SNP_P4_152942_49665	NW_004516370.1	Scaffold1061	49665	GG	TT	1946993684
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SNP_P4_152944_49683	NW_004516370.1	Scaffold1061	49683	AA	TT	1946993688
SNP_P4_152946_49942	NW_004516370.1	Scaffold1061	49942	GG	AA	1946993690
SNP_P4_152947_50968	NW_004516370.1	Scaffold1061	50968	CC	AA	1946993692
SNP_P4_152948_51190	NW_004516370.1	Scaffold1061	51190	AA	GG	1946993694
SNP_P4_152949_51273	NW_004516370.1	Scaffold1061	51273	CC	TT	1946993696
SNP_P4_152950_51378	NW_004516370.1	Scaffold1061	51378	TT	GG	1946993698
SNP_P4_152951_51466	NW_004516370.1	Scaffold1061	51466	AA	TT	1946993700
SNP_P4_152952_51479	NW_004516370.1	Scaffold1061	51479	CC	TT	1946993702
SNP_P4_152953_51565	NW_004516370.1	Scaffold1061	51565	GG	AA	1946993704
SNP_P4_152954_51746	NW_004516370.1	Scaffold1061	51746	TT	CC	1946993706
SNP_P4_152955_52381	NW_004516370.1	Scaffold1061	52381	GG	AA	1946993708
SNP_P4_152956_52384	NW_004516370.1	Scaffold1061	52384	GG	CC	1946993710
SNP_P4_152957_52411	NW_004516370.1	Scaffold1061	52411	AA	CC	1946993712
SNP_P4_152959_60803	NW_004516370.1	Scaffold1061	60803	AA	CC	1946993714
SNP_P4_152960_60854	NW_004516370.1	Scaffold1061	60854	AA	GG	1946993716
SNP_P4_152961_61110	NW_004516370.1	Scaffold1061	61110	CC	TT	1946993718
SNP_P4_152962_61463	NW_004516370.1	Scaffold1061	61463	AA	TT	1946993720
SNP_P4_152963_62047	NW_004516370.1	Scaffold1061	62047	CC	GG	1946993722
SNP_P4_152964_62138	NW_004516370.1	Scaffold1061	62138	TT	AA	1946993724
SNP_P4_152965_62168	NW_004516370.1	Scaffold1061	62168	AA	GG	1946993726
SNP_P4_152966_62199	NW_004516370.1	Scaffold1061	62199	GG	AA	1946993728
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SNP_P4_152968_62213	NW_004516370.1	Scaffold1061	62213	CC	TT	1946993735
SNP_P4_152969_62377	NW_004516370.1	Scaffold1061	62377	TT	CC	1946993737
SNP_P4_152970_62733	NW_004516370.1	Scaffold1061	62733	GG	AA	1946993739
SNP_P4_152971_63358	NW_004516370.1	Scaffold1061	63358	AA	GG	1946993741
SNP_P4_152972_64079	NW_004516370.1	Scaffold1061	64079	GG	CC	1946993743
SNP_P4_152973_64115	NW_004516370.1	Scaffold1061	64115	GG	AA	1946993745
SNP_P4_152974_64145	NW_004516370.1	Scaffold1061	64145	AA	TT	1946993747
SNP_P4_152975_64149	NW_004516370.1	Scaffold1061	64149	TT	CC	1946993749
SNP_P4_152976_64423	NW_004516370.1	Scaffold1061	64423	GG	AA	1946993751
SNP_P4_152977_64499	NW_004516370.1	Scaffold1061	64499	TT	CC	1946993753

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_152980_64869	NW_004516370.1	Scaffold1061	64869	AA	CC	1946993759
SNP_P4_152981_64913	NW_004516370.1	Scaffold1061	64913	AA	GG	1946993761
SNP_P4_152982_65006	NW_004516370.1	Scaffold1061	65006	TT	GG	1946993763
SNP_P4_152983_65025	NW_004516370.1	Scaffold1061	65025	TT	GG	1946993765
SNP_P4_152984_65072	NW_004516370.1	Scaffold1061	65072	CC	TT	1946993767
SNP_P4_152985_65178	NW_004516370.1	Scaffold1061	65178	TT	CC	1946993769
SNP_P4_152986_67146	NW_004516370.1	Scaffold1061	67146	GG	AA	1946993771
SNP_P4_152987_67173	NW_004516370.1	Scaffold1061	67173	AA	TT	1946993773
SNP_P4_152988_67176	NW_004516370.1	Scaffold1061	67176	CC	AA	1946993775
SNP_P4_152989_67527	NW_004516370.1	Scaffold1061	67527	CC	TT	1946993777
SNP_P4_152990_67710	NW_004516370.1	Scaffold1061	67710	TT	CC	1946993779
SNP_P4_152991_70031	NW_004516370.1	Scaffold1061	70031	AA	CC	1946993781
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SNP_P4_152993_70666	NW_004516370.1	Scaffold1061	70666	CC	GG	1946993785
SNP_P4_152994_70793	NW_004516370.1	Scaffold1061	70793	GG	AA	1946993787
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SNP_P4_153003_71206	NW_004516370.1	Scaffold1061	71206	AA	GG	1946993805
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SNP_P4_153010_71497	NW_004516370.1	Scaffold1061	71497	AA	TT	1946993820
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SNP_P4_153015_71532	NW_004516370.1	Scaffold1061	71532	GG	CC	1946993830
SNP_P4_153016_71533	NW_004516370.1	Scaffold1061	71533	GG	AA	1946993832
SNP_P4_153017_71536	NW_004516370.1	Scaffold1061	71536	CC	TT	1946993834
SNP_P4_153018_71626	NW_004516370.1	Scaffold1061	71626	CC	GG	1946993836
SNP_P4_153019_71627	NW_004516370.1	Scaffold1061	71627	AA	GG	1946993838

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_153021_71660	NW_004516370.1	Scaffold1061	71660	AA	TT	1946993842
SNP_P4_153022_71670	NW_004516370.1	Scaffold1061	71670	GG	AA	1946993845
SNP_P4_153023_71719	NW_004516370.1	Scaffold1061	71719	GG	CC	1946993847
SNP_P4_153024_71721	NW_004516370.1	Scaffold1061	71721	GG	TT	1946993849
SNP_P4_153025_71932	NW_004516370.1	Scaffold1061	71932	TT	AA	1946993851
SNP_P4_153026_72036	NW_004516370.1	Scaffold1061	72036	TT	CC	1946993853
SNP_P4_153027_72056	NW_004516370.1	Scaffold1061	72056	GG	AA	1946993855
SNP_P4_153028_72139	NW_004516370.1	Scaffold1061	72139	CC	AA	1946993858
SNP_P4_153029_72150	NW_004516370.1	Scaffold1061	72150	CC	TT	1946993860
SNP_P4_153030_72166	NW_004516370.1	Scaffold1061	72166	TT	GG	1946993862
SNP_P4_153031_72167	NW_004516370.1	Scaffold1061	72167	GG	AA	1946993864
SNP_P4_153032_72171	NW_004516370.1	Scaffold1061	72171	TT	AA	1946993866
SNP_P4_153033_72224	NW_004516370.1	Scaffold1061	72224	AA	CC	1946993868
SNP_P4_153034_72273	NW_004516370.1	Scaffold1061	72273	AA	GG	1946993870
SNP_P4_153035_72599	NW_004516370.1	Scaffold1061	72599	AA	GG	1946993873
SNP_P4_153036_72604	NW_004516370.1	Scaffold1061	72604	CC	TT	1946993876
SNP_P4_153037_72670	NW_004516370.1	Scaffold1061	72670	GG	CC	1946993878
SNP_P4_153038_72700	NW_004516370.1	Scaffold1061	72700	CC	GG	1946993880
SNP_P4_153039_72979	NW_004516370.1	Scaffold1061	72979	AA	GG	1946993883
SNP_P4_153040_73086	NW_004516370.1	Scaffold1061	73086	TT	CC	1946993885
SNP_P4_153041_73197	NW_004516370.1	Scaffold1061	73197	AA	GG	1946993887
SNP_P4_153042_73500	NW_004516370.1	Scaffold1061	73500	AA	TT	1946993889
SNP_P4_153043_74407	NW_004516370.1	Scaffold1061	74407	CC	AA	1946993891
SNP_P4_153044_74410	NW_004516370.1	Scaffold1061	74410	TT	CC	1946993893
SNP_P4_153045_74444	NW_004516370.1	Scaffold1061	74444	AA	TT	1946993895
SNP_P4_153046_74565	NW_004516370.1	Scaffold1061	74565	GG	CC	1946993897
SNP_P4_153047_74578	NW_004516370.1	Scaffold1061	74578	AA	CC	1946993899
SNP_P4_153048_74668	NW_004516370.1	Scaffold1061	74668	TT	GG	1946993901
SNP_P4_153049_74676	NW_004516370.1	Scaffold1061	74676	TT	CC	1946993902
SNP_P4_153050_74687	NW_004516370.1	Scaffold1061	74687	GG	AA	1946993903
SNP_P4_153051_74725	NW_004516370.1	Scaffold1061	74725	CC	TT	1946993904
SNP_P4_153052_74801	NW_004516370.1	Scaffold1061	74801	GG	AA	1946993905
SNP_P4_153053_74802	NW_004516370.1	Scaffold1061	74802	GG	AA	1946993906
SNP_P4_153054_74816	NW_004516370.1	Scaffold1061	74816	TT	CC	1946993908
SNP_P4_153055_74825	NW_004516370.1	Scaffold1061	74825	CC	GG	1946993910
SNP_P4_153056_74847	NW_004516370.1	Scaffold1061	74847	TT	AA	1946993912
SNP_P4_153057_74850	NW_004516370.1	Scaffold1061	74850	AA	TT	1946993914
SNP_P4_153058_74871	NW_004516370.1	Scaffold1061	74871	AA	GG	1946993916
SNP_P4_153059_74933	NW_004516370.1	Scaffold1061	74933	TT	CC	1946993918
SNP_P4_153060_74946	NW_004516370.1	Scaffold1061	74946	TT	AA	1946993920
SNP_P4_153061_74966	NW_004516370.1	Scaffold1061	74966	AA	TT	1946993922

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_153066_75055	NW_004516370.1	Scaffold1061	75055	CC	AA	1946993932
SNP_P4_153067_75093	NW_004516370.1	Scaffold1061	75093	CC	AA	1946993934
SNP_P4_153068_75168	NW_004516370.1	Scaffold1061	75168	CC	TT	1946993936
SNP_P4_153069_75172	NW_004516370.1	Scaffold1061	75172	TT	CC	1946993938
SNP_P4_153070_75202	NW_004516370.1	Scaffold1061	75202	AA	GG	1946993940
SNP_P4_153071_75274	NW_004516370.1	Scaffold1061	75274	TT	AA	1946993942
SNP_P4_153072_75361	NW_004516370.1	Scaffold1061	75361	AA	TT	1946993944
SNP_P4_153073_75404	NW_004516370.1	Scaffold1061	75404	TT	CC	1946993946
SNP_P4_153074_75438	NW_004516370.1	Scaffold1061	75438	TT	GG	1946993948
SNP_P4_153075_75478	NW_004516370.1	Scaffold1061	75478	CC	AA	1946993950
SNP_P4_153076_75562	NW_004516370.1	Scaffold1061	75562	CC	TT	1946993952
SNP_P4_153077_75566	NW_004516370.1	Scaffold1061	75566	AA	GG	1946993954
SNP_P4_153079_77003	NW_004516370.1	Scaffold1061	77003	TT	CC	1946993956
SNP_P4_153080_77066	NW_004516370.1	Scaffold1061	77066	AA	CC	1946993958
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SNP_P4_153083_77208	NW_004516370.1	Scaffold1061	77208	CC	AA	1946993964
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SNP_P4_153088_78125	NW_004516370.1	Scaffold1061	78125	CC	AA	1946993972
SNP_P4_153089_78168	NW_004516370.1	Scaffold1061	78168	CC	TT	1946993974
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SNP_P4_153091_78219	NW_004516370.1	Scaffold1061	78219	AA	CC	1946993978
SNP_P4_153092_78241	NW_004516370.1	Scaffold1061	78241	GG	TT	1946993980
SNP_P4_153093_78410	NW_004516370.1	Scaffold1061	78410	TT	CC	1946993982
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SNP_P4_153101_6840	NW_004516372.1	Scaffold1065	6840	GG	TT	1946993996
SNP_P4_153102_6850	NW_004516372.1	Scaffold1065	6850	CC	TT	1946993998
SNP_P4_153103_14241	NW_004516372.1	Scaffold1065	14241	AA	GG	1946994000
SNP_P4_153104_14248	NW_004516372.1	Scaffold1065	14248	AA	CC	1946994002
SNP_P4_153105_23552	NW_004516372.1	Scaffold1065	23552	GG	TT	1946994004
SNP_P4_153106_31204	NW_004516372.1	Scaffold1065	31204	CC	TT	1946994006

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_153109_42673	NW_004516372.1	Scaffold1065	42673	GG	TT	1946994012
SNP_P4_153110_69833	NW_004516372.1	Scaffold1065	69833	GG	AA	1946994014
SNP_P4_153111_72006	NW_004516372.1	Scaffold1065	72006	AA	GG	1946994016
SNP_P4_153112_75315	NW_004516372.1	Scaffold1065	75315	CC	TT	1946994018
SNP_P4_153114_165252	NW_004516372.1	Scaffold1065	165252	CC	AA	1946994020
SNP_P4_153115_165487	NW_004516372.1	Scaffold1065	165487	TT	CC	1946994022
SNP_P4_153116_165503	NW_004516372.1	Scaffold1065	165503	TT	GG	1946994024
SNP_P4_153117_166482	NW_004516372.1	Scaffold1065	166482	AA	CC	1946994026
SNP_P4_153118_176972	NW_004516372.1	Scaffold1065	176972	GG	AA	1946994028
SNP_P4_153120_696	NW_004516373.1	Scaffold1066	696	TT	GG	1946994030
SNP_P4_153121_1097	NW_004516373.1	Scaffold1066	1097	AA	GG	1946994032
SNP_P4_153122_927	NW_004516374.1	Scaffold1067	927	TT	CC	1946994034
SNP_P4_153123_1097	NW_004516374.1	Scaffold1067	1097	CC	TT	1946994036
SNP_P4_153125_1180	NW_004516374.1	Scaffold1067	1180	CC	AA	1946994038
SNP_P4_153126_1409	NW_004516374.1	Scaffold1067	1409	AA	GG	1946994040
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SNP_P4_153150_101063	NW_004516374.1	Scaffold1067	101063	CC	GG	1946994087
SNP_P4_153152_120137	NW_004516374.1	Scaffold1067	120137	CC	GG	1946994089
SNP_P4_153153_151371	NW_004516374.1	Scaffold1067	151371	AA	GG	1946994091

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_153160_190205	NW_004516374.1	Scaffold1067	190205	TT	GG	1946994105
SNP_P4_153161_190230	NW_004516374.1	Scaffold1067	190230	AA	GG	1946994107
SNP_P4_153162_190253	NW_004516374.1	Scaffold1067	190253	TT	CC	1946994109
SNP_P4_153163_191324	NW_004516374.1	Scaffold1067	191324	GG	AA	1946994111
SNP_P4_153164_191331	NW_004516374.1	Scaffold1067	191331	AA	CC	1946994113
SNP_P4_153165_191334	NW_004516374.1	Scaffold1067	191334	AA	GG	1946994115
SNP_P4_153166_191349	NW_004516374.1	Scaffold1067	191349	TT	CC	1946994117
SNP_P4_153168_195980	NW_004516374.1	Scaffold1067	195980	AA	TT	1946994119
SNP_P4_153169_195996	NW_004516374.1	Scaffold1067	195996	GG	TT	1946994121
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SNP_P4_153172_203031	NW_004516374.1	Scaffold1067	203031	GG	CC	1946994125
SNP_P4_153173_203038	NW_004516374.1	Scaffold1067	203038	GG	TT	1946994126
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SNP_P4_153176_203049	NW_004516374.1	Scaffold1067	203049	AA	GG	1946994129
SNP_P4_153177_203064	NW_004516374.1	Scaffold1067	203064	AA	TT	1946994131
SNP_P4_153179_203221	NW_004516374.1	Scaffold1067	203221	CC	TT	1946994133
SNP_P4_153180_213820	NW_004516374.1	Scaffold1067	213820	TT	CC	1946994135
SNP_P4_153182_213903	NW_004516374.1	Scaffold1067	213903	AA	GG	1946994137
SNP_P4_153183_214070	NW_004516374.1	Scaffold1067	214070	TT	CC	1946994139
SNP_P4_153184_214071	NW_004516374.1	Scaffold1067	214071	AA	GG	1946994141
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SNP_P4_153186_214142	NW_004516374.1	Scaffold1067	214142	TT	GG	1946994145
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SNP_P4_153196_214475	NW_004516374.1	Scaffold1067	214475	CC	AA	1946994165
SNP_P4_153198_214708	NW_004516374.1	Scaffold1067	214708	AA	GG	1946994167
SNP_P4_153199_214724	NW_004516374.1	Scaffold1067	214724	TT	CC	1946994169
SNP_P4_153201_221057	NW_004516374.1	Scaffold1067	221057	AA	GG	1946994171

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_153204_222226	NW_004516374.1	Scaffold1067	222226	TT	CC	1946994177
SNP_P4_153205_222290	NW_004516374.1	Scaffold1067	222290	AA	TT	1946994179
SNP_P4_153206_222391	NW_004516374.1	Scaffold1067	222391	TT	GG	1946994181
SNP_P4_153207_222395	NW_004516374.1	Scaffold1067	222395	TT	GG	1946994183
SNP_P4_153208_222396	NW_004516374.1	Scaffold1067	222396	TT	CC	1946994185
SNP_P4_153209_222399	NW_004516374.1	Scaffold1067	222399	TT	CC	1946994187
SNP_P4_153210_222402	NW_004516374.1	Scaffold1067	222402	AA	GG	1946994189
SNP_P4_153212_222506	NW_004516374.1	Scaffold1067	222506	TT	GG	1946994191
SNP_P4_153213_222568	NW_004516374.1	Scaffold1067	222568	TT	GG	1946994193
SNP_P4_153214_222574	NW_004516374.1	Scaffold1067	222574	TT	CC	1946994195
SNP_P4_153215_222584	NW_004516374.1	Scaffold1067	222584	TT	CC	1946994197
SNP_P4_153216_222626	NW_004516374.1	Scaffold1067	222626	TT	CC	1946994199
SNP_P4_153217_222628	NW_004516374.1	Scaffold1067	222628	TT	GG	1946994201
SNP_P4_153218_222685	NW_004516374.1	Scaffold1067	222685	AA	GG	1946994203
SNP_P4_153219_222695	NW_004516374.1	Scaffold1067	222695	TT	GG	1946994205
SNP_P4_153220_222696	NW_004516374.1	Scaffold1067	222696	TT	CC	1946994207
SNP_P4_153221_222698	NW_004516374.1	Scaffold1067	222698	GG	AA	1946994209
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SNP_P4_153224_222791	NW_004516374.1	Scaffold1067	222791	AA	GG	1946994215
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SNP_P4_153227_227594	NW_004516374.1	Scaffold1067	227594	AA	TT	1946994221
SNP_P4_153229_229499	NW_004516374.1	Scaffold1067	229499	GG	TT	1946994223
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SNP_P4_153237_235059	NW_004516374.1	Scaffold1067	235059	AA	TT	1946994239
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SNP_P4_153239_235124	NW_004516374.1	Scaffold1067	235124	TT	GG	1946994243
SNP_P4_153240_235130	NW_004516374.1	Scaffold1067	235130	GG	AA	1946994245
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SNP_P4_153242_235171	NW_004516374.1	Scaffold1067	235171	TT	CC	1946994249
SNP_P4_153243_235173	NW_004516374.1	Scaffold1067	235173	TT	CC	1946994251
SNP_P4_153244_235179	NW_004516374.1	Scaffold1067	235179	CC	AA	1946994253
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_153248_235291	NW_004516374.1	Scaffold1067	235291	TT	AA	1946994259
SNP_P4_153249_235310	NW_004516374.1	Scaffold1067	235310	AA	GG	1946994261
SNP_P4_153250_235319	NW_004516374.1	Scaffold1067	235319	GG	AA	1946994263
SNP_P4_153251_235365	NW_004516374.1	Scaffold1067	235365	TT	CC	1946994265
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SNP_P4_153253_235459	NW_004516374.1	Scaffold1067	235459	AA	GG	1946994269
SNP_P4_153254_235463	NW_004516374.1	Scaffold1067	235463	TT	GG	1946994271
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SNP_P4_153257_235496	NW_004516374.1	Scaffold1067	235496	AA	GG	1946994277
SNP_P4_153258_235501	NW_004516374.1	Scaffold1067	235501	TT	CC	1946994279
SNP_P4_153259_235554	NW_004516374.1	Scaffold1067	235554	TT	AA	1946994281
SNP_P4_153260_235570	NW_004516374.1	Scaffold1067	235570	AA	GG	1946994283
SNP_P4_153261_235595	NW_004516374.1	Scaffold1067	235595	TT	CC	1946994285
SNP_P4_153262_235616	NW_004516374.1	Scaffold1067	235616	TT	CC	1946994287
SNP_P4_153263_235664	NW_004516374.1	Scaffold1067	235664	TT	CC	1946994289
SNP_P4_153264_235668	NW_004516374.1	Scaffold1067	235668	GG	CC	1946994291
SNP_P4_153265_235681	NW_004516374.1	Scaffold1067	235681	TT	CC	1946994293
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SNP_P4_153272_235832	NW_004516374.1	Scaffold1067	235832	TT	CC	1946994307
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SNP_P4_153275_235882	NW_004516374.1	Scaffold1067	235882	AA	CC	1946994313
SNP_P4_153276_235907	NW_004516374.1	Scaffold1067	235907	TT	CC	1946994315
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SNP_P4_153281_235991	NW_004516374.1	Scaffold1067	235991	AA	GG	1946994322
SNP_P4_153282_236026	NW_004516374.1	Scaffold1067	236026	TT	AA	1946994324
SNP_P4_153283_236035	NW_004516374.1	Scaffold1067	236035	TT	GG	1946994326
SNP_P4_153284_236058	NW_004516374.1	Scaffold1067	236058	AA	GG	1946994328
SNP_P4_153285_236079	NW_004516374.1	Scaffold1067	236079	AA	GG	1946994330
SNP_P4_153286_236134	NW_004516374.1	Scaffold1067	236134	TT	CC	1946994332
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_153291_236320	NW_004516374.1	Scaffold1067	236320	AA	GG	1946994342
SNP_P4_153292_236326	NW_004516374.1	Scaffold1067	236326	TT	GG	1946994344
SNP_P4_153293_236416	NW_004516374.1	Scaffold1067	236416	TT	GG	1946994345
SNP_P4_153294_236419	NW_004516374.1	Scaffold1067	236419	AA	GG	1946994347
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SNP_P4_153299_236576	NW_004516374.1	Scaffold1067	236576	AA	GG	1946994356
SNP_P4_153300_236584	NW_004516374.1	Scaffold1067	236584	AA	GG	1946994358
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SNP_P4_153325_237106	NW_004516374.1	Scaffold1067	237106	TT	AA	1946994408
SNP_P4_153326_237109	NW_004516374.1	Scaffold1067	237109	AA	CC	1946994409
SNP_P4_153327_237127	NW_004516374.1	Scaffold1067	237127	AA	GG	1946994410
SNP_P4_153328_237152	NW_004516374.1	Scaffold1067	237152	TT	AA	1946994411
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_153332_237269	NW_004516374.1	Scaffold1067	237269	AA	CC	1946994419
SNP_P4_153333_237306	NW_004516374.1	Scaffold1067	237306	AA	CC	1946994421
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SNP_P4_153341_237509	NW_004516374.1	Scaffold1067	237509	AA	CC	1946994437
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SNP_P4_153366_238222	NW_004516374.1	Scaffold1067	238222	CC	GG	1946994485
SNP_P4_153367_238238	NW_004516374.1	Scaffold1067	238238	AA	CC	1946994487
SNP_P4_153368_238263	NW_004516374.1	Scaffold1067	238263	AA	CC	1946994489
SNP_P4_153369_238282	NW_004516374.1	Scaffold1067	238282	AA	GG	1946994490
SNP_P4_153370_238324	NW_004516374.1	Scaffold1067	238324	TT	CC	1946994491
SNP_P4_153371_238331	NW_004516374.1	Scaffold1067	238331	AA	GG	1946994492

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_153373_238429	NW_004516374.1	Scaffold1067	238429	TT	GG	1946994494
SNP_P4_153374_238442	NW_004516374.1	Scaffold1067	238442	TT	CC	1946994496
SNP_P4_153375_238473	NW_004516374.1	Scaffold1067	238473	CC	GG	1946994498
SNP_P4_153376_238546	NW_004516374.1	Scaffold1067	238546	GG	AA	1946994500
SNP_P4_153377_238547	NW_004516374.1	Scaffold1067	238547	TT	CC	1946994502
SNP_P4_153378_238576	NW_004516374.1	Scaffold1067	238576	AA	GG	1946994504
SNP_P4_153380_238614	NW_004516374.1	Scaffold1067	238614	AA	CC	1946994506
SNP_P4_153382_238944	NW_004516374.1	Scaffold1067	238944	AA	CC	1946994508
SNP_P4_153383_238965	NW_004516374.1	Scaffold1067	238965	CC	AA	1946994510
SNP_P4_153384_239002	NW_004516374.1	Scaffold1067	239002	CC	AA	1946994512
SNP_P4_153385_239043	NW_004516374.1	Scaffold1067	239043	TT	CC	1946994514
SNP_P4_153386_239045	NW_004516374.1	Scaffold1067	239045	AA	GG	1946994516
SNP_P4_153387_239047	NW_004516374.1	Scaffold1067	239047	CC	GG	1946994518
SNP_P4_153388_239064	NW_004516374.1	Scaffold1067	239064	TT	CC	1946994520
SNP_P4_153389_239100	NW_004516374.1	Scaffold1067	239100	TT	CC	1946994522
SNP_P4_153390_239150	NW_004516374.1	Scaffold1067	239150	AA	CC	1946994524
SNP_P4_153391_239157	NW_004516374.1	Scaffold1067	239157	CC	AA	1946994526
SNP_P4_153392_239234	NW_004516374.1	Scaffold1067	239234	AA	CC	1946994528
SNP_P4_153393_239253	NW_004516374.1	Scaffold1067	239253	TT	CC	1946994530
SNP_P4_153394_239302	NW_004516374.1	Scaffold1067	239302	TT	CC	1946994532
SNP_P4_153395_239304	NW_004516374.1	Scaffold1067	239304	TT	CC	1946994534
SNP_P4_153396_239339	NW_004516374.1	Scaffold1067	239339	TT	CC	1946994536
SNP_P4_153397_239395	NW_004516374.1	Scaffold1067	239395	TT	GG	1946994538
SNP_P4_153398_239396	NW_004516374.1	Scaffold1067	239396	AA	GG	1946994540
SNP_P4_153399_239434	NW_004516374.1	Scaffold1067	239434	GG	CC	1946994542
SNP_P4_153400_239450	NW_004516374.1	Scaffold1067	239450	AA	GG	1946994544
SNP_P4_153401_239492	NW_004516374.1	Scaffold1067	239492	AA	CC	1946994546
SNP_P4_153402_239493	NW_004516374.1	Scaffold1067	239493	AA	CC	1946994548
SNP_P4_153403_239552	NW_004516374.1	Scaffold1067	239552	TT	GG	1946994550
SNP_P4_153404_239553	NW_004516374.1	Scaffold1067	239553	TT	CC	1946994552
SNP_P4_153405_239595	NW_004516374.1	Scaffold1067	239595	TT	AA	1946994554
SNP_P4_153406_239647	NW_004516374.1	Scaffold1067	239647	TT	GG	1946994556
SNP_P4_153407_239688	NW_004516374.1	Scaffold1067	239688	TT	CC	1946994558
SNP_P4_153408_239706	NW_004516374.1	Scaffold1067	239706	AA	GG	1946994560
SNP_P4_153409_239742	NW_004516374.1	Scaffold1067	239742	AA	GG	1946994562
SNP_P4_153410_239844	NW_004516374.1	Scaffold1067	239844	TT	CC	1946994564
SNP_P4_153411_239845	NW_004516374.1	Scaffold1067	239845	TT	CC	1946994566
SNP_P4_153412_239852	NW_004516374.1	Scaffold1067	239852	AA	CC	1946994568
SNP_P4_153413_239857	NW_004516374.1	Scaffold1067	239857	AA	CC	1946994570
SNP_P4_153414_239884	NW_004516374.1	Scaffold1067	239884	GG	CC	1946994572
SNP_P4_153415_239891	NW_004516374.1	Scaffold1067	239891	TT	GG	1946994574

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_153417_239952	NW_004516374.1	Scaffold1067	239952	AA	CC	1946994578
SNP_P4_153418_240002	NW_004516374.1	Scaffold1067	240002	CC	TT	1946994580
SNP_P4_153419_240035	NW_004516374.1	Scaffold1067	240035	TT	GG	1946994583
SNP_P4_153420_240039	NW_004516374.1	Scaffold1067	240039	GG	TT	1946994585
SNP_P4_153421_240049	NW_004516374.1	Scaffold1067	240049	TT	GG	1946994587
SNP_P4_153422_240054	NW_004516374.1	Scaffold1067	240054	TT	GG	1946994589
SNP_P4_153423_240062	NW_004516374.1	Scaffold1067	240062	TT	CC	1946994591
SNP_P4_153424_240087	NW_004516374.1	Scaffold1067	240087	TT	CC	1946994593
SNP_P4_153425_240106	NW_004516374.1	Scaffold1067	240106	AA	GG	1946994595
SNP_P4_153426_240122	NW_004516374.1	Scaffold1067	240122	AA	GG	1946994597
SNP_P4_153427_240144	NW_004516374.1	Scaffold1067	240144	TT	GG	1946994599
SNP_P4_153428_240145	NW_004516374.1	Scaffold1067	240145	TT	CC	1946994601
SNP_P4_153429_240150	NW_004516374.1	Scaffold1067	240150	TT	CC	1946994603
SNP_P4_153430_240249	NW_004516374.1	Scaffold1067	240249	TT	CC	1946994605
SNP_P4_153431_240262	NW_004516374.1	Scaffold1067	240262	AA	TT	1946994607
SNP_P4_153432_240320	NW_004516374.1	Scaffold1067	240320	AA	GG	1946994609
SNP_P4_153433_240329	NW_004516374.1	Scaffold1067	240329	AA	GG	1946994611
SNP_P4_153434_240347	NW_004516374.1	Scaffold1067	240347	TT	CC	1946994613
SNP_P4_153435_240368	NW_004516374.1	Scaffold1067	240368	TT	GG	1946994615
SNP_P4_153436_240401	NW_004516374.1	Scaffold1067	240401	TT	GG	1946994617
SNP_P4_153437_240412	NW_004516374.1	Scaffold1067	240412	AA	GG	1946994619
SNP_P4_153438_240468	NW_004516374.1	Scaffold1067	240468	AA	GG	1946994621
SNP_P4_153439_240483	NW_004516374.1	Scaffold1067	240483	AA	GG	1946994623
SNP_P4_153440_240513	NW_004516374.1	Scaffold1067	240513	AA	GG	1946994625
SNP_P4_153441_240521	NW_004516374.1	Scaffold1067	240521	TT	CC	1946994627
SNP_P4_153442_240527	NW_004516374.1	Scaffold1067	240527	TT	CC	1946994629
SNP_P4_153443_240539	NW_004516374.1	Scaffold1067	240539	TT	CC	1946994631
SNP_P4_153444_240575	NW_004516374.1	Scaffold1067	240575	GG	TT	1946994633
SNP_P4_153445_240588	NW_004516374.1	Scaffold1067	240588	TT	GG	1946994635
SNP_P4_153446_240607	NW_004516374.1	Scaffold1067	240607	TT	GG	1946994637
SNP_P4_153447_240640	NW_004516374.1	Scaffold1067	240640	AA	GG	1946994639
SNP_P4_153448_240647	NW_004516374.1	Scaffold1067	240647	GG	AA	1946994641
SNP_P4_153449_240658	NW_004516374.1	Scaffold1067	240658	GG	CC	1946994643
SNP_P4_153450_240688	NW_004516374.1	Scaffold1067	240688	TT	CC	1946994645
SNP_P4_153451_240704	NW_004516374.1	Scaffold1067	240704	AA	GG	1946994647
SNP_P4_153452_240718	NW_004516374.1	Scaffold1067	240718	TT	CC	1946994649
SNP_P4_153453_240749	NW_004516374.1	Scaffold1067	240749	TT	AA	1946994651
SNP_P4_153454_240779	NW_004516374.1	Scaffold1067	240779	TT	CC	1946994653
SNP_P4_153455_240790	NW_004516374.1	Scaffold1067	240790	TT	CC	1946994655
SNP_P4_153456_240856	NW_004516374.1	Scaffold1067	240856	GG	CC	1946994657
SNP_P4_153457_240862	NW_004516374.1	Scaffold1067	240862	CC	AA	1946994659

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_153459_240876	NW_004516374.1	Scaffold1067	240876	TT	CC	1946994663
SNP_P4_153460_240879	NW_004516374.1	Scaffold1067	240879	TT	CC	1946994665
SNP_P4_153461_240923	NW_004516374.1	Scaffold1067	240923	AA	GG	1946994667
SNP_P4_153462_240938	NW_004516374.1	Scaffold1067	240938	AA	GG	1946994669
SNP_P4_153463_240951	NW_004516374.1	Scaffold1067	240951	AA	GG	1946994671
SNP_P4_153464_241018	NW_004516374.1	Scaffold1067	241018	TT	CC	1946994673
SNP_P4_153465_241026	NW_004516374.1	Scaffold1067	241026	TT	AA	1946994675
SNP_P4_153466_241046	NW_004516374.1	Scaffold1067	241046	TT	GG	1946994677
SNP_P4_153467_241069	NW_004516374.1	Scaffold1067	241069	AA	GG	1946994679
SNP_P4_153468_241106	NW_004516374.1	Scaffold1067	241106	TT	CC	1946994681
SNP_P4_153469_241112	NW_004516374.1	Scaffold1067	241112	AA	GG	1946994683
SNP_P4_153470_241132	NW_004516374.1	Scaffold1067	241132	TT	CC	1946994685
SNP_P4_153471_241162	NW_004516374.1	Scaffold1067	241162	TT	GG	1946994687
SNP_P4_153472_241166	NW_004516374.1	Scaffold1067	241166	CC	GG	1946994689
SNP_P4_153473_241170	NW_004516374.1	Scaffold1067	241170	TT	CC	1946994691
SNP_P4_153474_241442	NW_004516374.1	Scaffold1067	241442	GG	AA	1946994693
SNP_P4_153475_241469	NW_004516374.1	Scaffold1067	241469	CC	GG	1946994695
SNP_P4_153476_241522	NW_004516374.1	Scaffold1067	241522	AA	TT	1946994697
SNP_P4_153477_241537	NW_004516374.1	Scaffold1067	241537	GG	AA	1946994699
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SNP_P4_153483_242876	NW_004516374.1	Scaffold1067	242876	TT	CC	1946994711
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SNP_P4_153490_243160	NW_004516374.1	Scaffold1067	243160	TT	GG	1946994723
SNP_P4_153491_243176	NW_004516374.1	Scaffold1067	243176	TT	GG	1946994725
SNP_P4_153492_243228	NW_004516374.1	Scaffold1067	243228	AA	GG	1946994727
SNP_P4_153494_243306	NW_004516374.1	Scaffold1067	243306	AA	CC	1946994729
SNP_P4_153495_243315	NW_004516374.1	Scaffold1067	243315	AA	GG	1946994731
SNP_P4_153497_243352	NW_004516374.1	Scaffold1067	243352	TT	GG	1946994733
SNP_P4_153498_243363	NW_004516374.1	Scaffold1067	243363	TT	GG	1946994735
SNP_P4_153499_243452	NW_004516374.1	Scaffold1067	243452	AA	GG	1946994737
SNP_P4_153500_243464	NW_004516374.1	Scaffold1067	243464	AA	GG	1946994739
SNP_P4_153501_243494	NW_004516374.1	Scaffold1067	243494	TT	CC	1946994741
SNP_P4_153503_243574	NW_004516374.1	Scaffold1067	243574	AA	CC	1946994743

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_153505_243659	NW_004516374.1	Scaffold1067	243659	TT	CC	1946994747
SNP_P4_153506_243718	NW_004516374.1	Scaffold1067	243718	TT	CC	1946994749
SNP_P4_153507_243768	NW_004516374.1	Scaffold1067	243768	TT	GG	1946994751
SNP_P4_153508_243790	NW_004516374.1	Scaffold1067	243790	AA	GG	1946994753
SNP_P4_153510_243821	NW_004516374.1	Scaffold1067	243821	AA	GG	1946994755
SNP_P4_153511_243866	NW_004516374.1	Scaffold1067	243866	TT	GG	1946994757
SNP_P4_153512_244015	NW_004516374.1	Scaffold1067	244015	AA	GG	1946994759
SNP_P4_153514_244037	NW_004516374.1	Scaffold1067	244037	TT	GG	1946994761
SNP_P4_153515_244043	NW_004516374.1	Scaffold1067	244043	AA	CC	1946994763
SNP_P4_153516_249054	NW_004516374.1	Scaffold1067	249054	TT	CC	1946994765
SNP_P4_153517_249081	NW_004516374.1	Scaffold1067	249081	TT	AA	1946994767
SNP_P4_153518_249109	NW_004516374.1	Scaffold1067	249109	GG	AA	1946994770
SNP_P4_153519_249114	NW_004516374.1	Scaffold1067	249114	AA	GG	1946994772
SNP_P4_153520_249239	NW_004516374.1	Scaffold1067	249239	TT	CC	1946994774
SNP_P4_153521_249277	NW_004516374.1	Scaffold1067	249277	TT	CC	1946994776
SNP_P4_153522_249301	NW_004516374.1	Scaffold1067	249301	AA	GG	1946994778
SNP_P4_153524_249478	NW_004516374.1	Scaffold1067	249478	AA	GG	1946994780
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SNP_P4_153528_249631	NW_004516374.1	Scaffold1067	249631	AA	CC	1946994788
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SNP_P4_153534_260612	NW_004516374.1	Scaffold1067	260612	AA	GG	1946994800
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SNP_P4_153537_263142	NW_004516374.1	Scaffold1067	263142	TT	CC	1946994806
SNP_P4_153538_263143	NW_004516374.1	Scaffold1067	263143	AA	GG	1946994808
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SNP_P4_153540_263253	NW_004516374.1	Scaffold1067	263253	GG	CC	1946994812
SNP_P4_153541_263271	NW_004516374.1	Scaffold1067	263271	AA	GG	1946994814
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SNP_P4_153543_263290	NW_004516374.1	Scaffold1067	263290	AA	CC	1946994818
SNP_P4_153544_263310	NW_004516374.1	Scaffold1067	263310	TT	CC	1946994820
SNP_P4_153545_263314	NW_004516374.1	Scaffold1067	263314	TT	CC	1946994822
SNP_P4_153546_263319	NW_004516374.1	Scaffold1067	263319	AA	GG	1946994824
SNP_P4_153547_263497	NW_004516374.1	Scaffold1067	263497	AA	GG	1946994826
SNP_P4_153549_263591	NW_004516374.1	Scaffold1067	263591	AA	GG	1946994828

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_153552_263675	NW_004516374.1	Scaffold1067	263675	AA	GG	1946994834
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SNP_P4_153554_263696	NW_004516374.1	Scaffold1067	263696	TT	CC	1946994838
SNP_P4_153555_263815	NW_004516374.1	Scaffold1067	263815	AA	CC	1946994840
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SNP_P4_153559_263891	NW_004516374.1	Scaffold1067	263891	AA	GG	1946994848
SNP_P4_153560_263899	NW_004516374.1	Scaffold1067	263899	GG	AA	1946994850
SNP_P4_153561_263935	NW_004516374.1	Scaffold1067	263935	TT	CC	1946994852
SNP_P4_153562_264033	NW_004516374.1	Scaffold1067	264033	TT	CC	1946994854
SNP_P4_153563_264060	NW_004516374.1	Scaffold1067	264060	AA	GG	1946994856
SNP_P4_153564_264072	NW_004516374.1	Scaffold1067	264072	GG	AA	1946994858
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SNP_P4_153566_264743	NW_004516374.1	Scaffold1067	264743	CC	AA	1946994862
SNP_P4_153567_264748	NW_004516374.1	Scaffold1067	264748	TT	CC	1946994864
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SNP_P4_153570_265633	NW_004516374.1	Scaffold1067	265633	TT	CC	1946994870
SNP_P4_153571_265634	NW_004516374.1	Scaffold1067	265634	AA	TT	1946994872
SNP_P4_153572_265647	NW_004516374.1	Scaffold1067	265647	TT	GG	1946994874
SNP_P4_153573_265654	NW_004516374.1	Scaffold1067	265654	TT	AA	1946994876
SNP_P4_153574_265676	NW_004516374.1	Scaffold1067	265676	TT	CC	1946994878
SNP_P4_153575_265700	NW_004516374.1	Scaffold1067	265700	TT	AA	1946994880
SNP_P4_153576_265702	NW_004516374.1	Scaffold1067	265702	AA	GG	1946994882
SNP_P4_153577_265724	NW_004516374.1	Scaffold1067	265724	AA	CC	1946994884
SNP_P4_153578_265730	NW_004516374.1	Scaffold1067	265730	TT	CC	1946994886
SNP_P4_153579_265732	NW_004516374.1	Scaffold1067	265732	AA	GG	1946994888
SNP_P4_153580_265761	NW_004516374.1	Scaffold1067	265761	TT	CC	1946994890
SNP_P4_153581_265779	NW_004516374.1	Scaffold1067	265779	CC	GG	1946994892
SNP_P4_153582_266037	NW_004516374.1	Scaffold1067	266037	AA	GG	1946994894
SNP_P4_153584_266096	NW_004516374.1	Scaffold1067	266096	AA	GG	1946994896
SNP_P4_153585_269603	NW_004516374.1	Scaffold1067	269603	TT	CC	1946994898
SNP_P4_153586_269626	NW_004516374.1	Scaffold1067	269626	TT	GG	1946994900
SNP_P4_153587_1913	NW_004516376.1	Scaffold1071	1913	GG	AA	1946994902
SNP_P4_153588_13178	NW_004516377.1	Scaffold1072	13178	AA	CC	1946994904
SNP_P4_153589_20642	NW_004516379.1	Scaffold1074	20642	AA	CC	1946994906
SNP_P4_153590_20657	NW_004516379.1	Scaffold1074	20657	CC	GG	1946994908
SNP_P4_153591_20670	NW_004516379.1	Scaffold1074	20670	AA	CC	1946994910
SNP_P4_153592_20696	NW_004516379.1	Scaffold1074	20696	TT	CC	1946994912

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_153594_20706	NW_004516379.1	Scaffold1074	20706	CC	TT	1946994916
SNP_P4_153595_423	NW_004516380.1	Scaffold1076	423	CC	AA	1946994918
SNP_P4_153596_442	NW_004516380.1	Scaffold1076	442	GG	CC	1946994920
SNP_P4_153597_503	NW_004516380.1	Scaffold1076	503	TT	AA	1946994922
SNP_P4_153598_7191	NW_004516380.1	Scaffold1076	7191	GG	AA	1946994924
SNP_P4_153599_7196	NW_004516380.1	Scaffold1076	7196	GG	AA	1946994926
SNP_P4_153600_7202	NW_004516380.1	Scaffold1076	7202	TT	AA	1946994928
SNP_P4_153601_7309	NW_004516380.1	Scaffold1076	7309	TT	GG	1946994930
SNP_P4_153602_7653	NW_004516380.1	Scaffold1076	7653	GG	CC	1946994932
SNP_P4_153603_8050	NW_004516380.1	Scaffold1076	8050	GG	AA	1946994934
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SNP_P4_153605_10753	NW_004516380.1	Scaffold1076	10753	AA	GG	1946994938
SNP_P4_153606_10953	NW_004516380.1	Scaffold1076	10953	CC	GG	1946994940
SNP_P4_153607_11054	NW_004516380.1	Scaffold1076	11054	GG	AA	1946994942
SNP_P4_153608_11074	NW_004516380.1	Scaffold1076	11074	GG	TT	1946994944
SNP_P4_153609_11122	NW_004516380.1	Scaffold1076	11122	AA	CC	1946994946
SNP_P4_153610_23771	NW_004516380.1	Scaffold1076	23771	TT	GG	1946994948
SNP_P4_153611_24015	NW_004516380.1	Scaffold1076	24015	AA	CC	1946994950
SNP_P4_153612_33224	NW_004516380.1	Scaffold1076	33224	TT	GG	1946994952
SNP_P4_153613_33654	NW_004516380.1	Scaffold1076	33654	AA	GG	1946994954
SNP_P4_153614_2518	NW_004516382.1	Scaffold1080	2518	AA	GG	1946994956
SNP_P4_153615_5323	NW_004516382.1	Scaffold1080	5323	TT	GG	1946994958
SNP_P4_153616_5346	NW_004516382.1	Scaffold1080	5346	GG	TT	1946994960
SNP_P4_153617_8140	NW_004516382.1	Scaffold1080	8140	TT	AA	1946994962
SNP_P4_153618_15616	NW_004516382.1	Scaffold1080	15616	GG	TT	1946994964
SNP_P4_153619_15627	NW_004516382.1	Scaffold1080	15627	GG	TT	1946994965
SNP_P4_153620_15656	NW_004516382.1	Scaffold1080	15656	AA	GG	1946994967
SNP_P4_153621_15674	NW_004516382.1	Scaffold1080	15674	AA	GG	1946994969
SNP_P4_153622_26909	NW_004516382.1	Scaffold1080	26909	AA	GG	1946994971
SNP_P4_153623_32551	NW_004516382.1	Scaffold1080	32551	GG	AA	1946994973
SNP_P4_153624_32818	NW_004516382.1	Scaffold1080	32818	CC	TT	1946994975
SNP_P4_153625_32839	NW_004516382.1	Scaffold1080	32839	AA	GG	1946994977
SNP_P4_153626_32871	NW_004516382.1	Scaffold1080	32871	AA	CC	1946994979
SNP_P4_153627_29053	NW_004516383.1	Scaffold1081	29053	AA	GG	1946994981
SNP_P4_153628_38519	NW_004516383.1	Scaffold1081	38519	AA	CC	1946994983
SNP_P4_153629_38520	NW_004516383.1	Scaffold1081	38520	TT	AA	1946994985
SNP_P4_153631_46980	NW_004516383.1	Scaffold1081	46980	TT	CC	1946994987
SNP_P4_153632_50366	NW_004516383.1	Scaffold1081	50366	TT	GG	1946994989
SNP_P4_153633_61495	NW_004516383.1	Scaffold1081	61495	TT	AA	1946994991
SNP_P4_153634_83082	NW_004516383.1	Scaffold1081	83082	CC	TT	1946994993
SNP_P4_153635_83153	NW_004516383.1	Scaffold1081	83153	CC	TT	1946994995

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_153637_86148	NW_004516383.1	Scaffold1081	86148	AA	GG	1946994999
SNP_P4_153639_86179	NW_004516383.1	Scaffold1081	86179	CC	TT	1946995001
SNP_P4_153640_86218	NW_004516383.1	Scaffold1081	86218	TT	GG	1946995003
SNP_P4_153643_87615	NW_004516383.1	Scaffold1081	87615	TT	GG	1946995005
SNP_P4_153645_89778	NW_004516383.1	Scaffold1081	89778	GG	TT	1946995007
SNP_P4_153646_93459	NW_004516383.1	Scaffold1081	93459	CC	GG	1946995009
SNP_P4_153647_109390	NW_004516383.1	Scaffold1081	109390	AA	GG	1946995011
SNP_P4_153648_109397	NW_004516383.1	Scaffold1081	109397	AA	GG	1946995013
SNP_P4_153649_116974	NW_004516383.1	Scaffold1081	116974	TT	GG	1946995015
SNP_P4_153651_707	NW_004516384.1	Scaffold1082	707	AA	TT	1946995017
SNP_P4_153652_832	NW_004516384.1	Scaffold1082	832	CC	TT	1946995019
SNP_P4_153653_859	NW_004516384.1	Scaffold1082	859	TT	CC	1946995021
SNP_P4_153654_19777	NW_004516384.1	Scaffold1082	19777	TT	CC	1946995023
SNP_P4_153655_19794	NW_004516384.1	Scaffold1082	19794	AA	TT	1946995024
SNP_P4_153657_20012	NW_004516384.1	Scaffold1082	20012	CC	AA	1946995026
SNP_P4_153658_20062	NW_004516384.1	Scaffold1082	20062	TT	GG	1946995028
SNP_P4_153661_21096	NW_004516384.1	Scaffold1082	21096	CC	GG	1946995030
SNP_P4_153662_21238	NW_004516384.1	Scaffold1082	21238	CC	AA	1946995032
SNP_P4_153663_21342	NW_004516384.1	Scaffold1082	21342	AA	TT	1946995034
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SNP_P4_153665_21354	NW_004516384.1	Scaffold1082	21354	TT	AA	1946995038
SNP_P4_153666_21356	NW_004516384.1	Scaffold1082	21356	AA	TT	1946995040
SNP_P4_153667_21392	NW_004516384.1	Scaffold1082	21392	TT	AA	1946995042
SNP_P4_153668_23011	NW_004516384.1	Scaffold1082	23011	TT	AA	1946995044
SNP_P4_153669_24505	NW_004516384.1	Scaffold1082	24505	TT	CC	1946995047
SNP_P4_153670_26922	NW_004516384.1	Scaffold1082	26922	AA	GG	1946995049
SNP_P4_153671_26957	NW_004516384.1	Scaffold1082	26957	TT	GG	1946995051
SNP_P4_153672_27036	NW_004516384.1	Scaffold1082	27036	TT	CC	1946995053
SNP_P4_153673_27256	NW_004516384.1	Scaffold1082	27256	TT	GG	1946995055
SNP_P4_153674_27307	NW_004516384.1	Scaffold1082	27307	TT	AA	1946995057
SNP_P4_153675_27410	NW_004516384.1	Scaffold1082	27410	GG	AA	1946995059
SNP_P4_153676_27442	NW_004516384.1	Scaffold1082	27442	GG	AA	1946995061
SNP_P4_153677_27458	NW_004516384.1	Scaffold1082	27458	CC	GG	1946995063
SNP_P4_153678_27597	NW_004516384.1	Scaffold1082	27597	TT	AA	1946995065
SNP_P4_153679_27630	NW_004516384.1	Scaffold1082	27630	CC	TT	1946995066
SNP_P4_153680_27659	NW_004516384.1	Scaffold1082	27659	AA	TT	1946995067
SNP_P4_153681_31857	NW_004516384.1	Scaffold1082	31857	GG	AA	1946995068
SNP_P4_153682_31864	NW_004516384.1	Scaffold1082	31864	TT	AA	1946995070
SNP_P4_153683_31928	NW_004516384.1	Scaffold1082	31928	GG	CC	1946995072
SNP_P4_153684_31933	NW_004516384.1	Scaffold1082	31933	TT	CC	1946995074
SNP_P4_153685_32162	NW_004516384.1	Scaffold1082	32162	GG	AA	1946995076

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_153687_32193	NW_004516384.1	Scaffold1082	32193	CC	AA	1946995080
SNP_P4_153688_32966	NW_004516384.1	Scaffold1082	32966	AA	CC	1946995082
SNP_P4_153689_2831	NW_004516385.1	Scaffold1083	2831	CC	AA	1946995084
SNP_P4_153690_10937	NW_004516385.1	Scaffold1083	10937	CC	GG	1946995086
SNP_P4_153691_10951	NW_004516385.1	Scaffold1083	10951	GG	AA	1946995088
SNP_P4_153692_10986	NW_004516385.1	Scaffold1083	10986	AA	GG	1946995090
SNP_P4_153693_16493	NW_004516385.1	Scaffold1083	16493	GG	CC	1946995092
SNP_P4_153694_27304	NW_004516385.1	Scaffold1083	27304	TT	GG	1946995093
SNP_P4_153695_27349	NW_004516385.1	Scaffold1083	27349	CC	TT	1946995095
SNP_P4_153696_27363	NW_004516385.1	Scaffold1083	27363	AA	GG	1946995097
SNP_P4_153697_27386	NW_004516385.1	Scaffold1083	27386	TT	CC	1946995099
SNP_P4_153698_27390	NW_004516385.1	Scaffold1083	27390	TT	CC	1946995101
SNP_P4_153699_27434	NW_004516385.1	Scaffold1083	27434	CC	TT	1946995103
SNP_P4_153700_27474	NW_004516385.1	Scaffold1083	27474	TT	GG	1946995105
SNP_P4_153701_27516	NW_004516385.1	Scaffold1083	27516	AA	GG	1946995107
SNP_P4_153702_27522	NW_004516385.1	Scaffold1083	27522	AA	GG	1946995109
SNP_P4_153703_43365	NW_004516385.1	Scaffold1083	43365	AA	GG	1946995111
SNP_P4_153706_59315	NW_004516385.1	Scaffold1083	59315	AA	CC	1946995113
SNP_P4_153707_59337	NW_004516385.1	Scaffold1083	59337	CC	TT	1946995115
SNP_P4_153708_59338	NW_004516385.1	Scaffold1083	59338	AA	CC	1946995117
SNP_P4_153709_67845	NW_004516385.1	Scaffold1083	67845	GG	TT	1946995119
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SNP_P4_153712_92707	NW_004516385.1	Scaffold1083	92707	GG	AA	1946995123
SNP_P4_153713_92715	NW_004516385.1	Scaffold1083	92715	TT	AA	1946995125
SNP_P4_153714_92719	NW_004516385.1	Scaffold1083	92719	CC	AA	1946995127
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SNP_P4_153720_118643	NW_004516385.1	Scaffold1083	118643	CC	AA	1946995139
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SNP_P4_153723_118668	NW_004516385.1	Scaffold1083	118668	GG	CC	1946995145
SNP_P4_153724_118673	NW_004516385.1	Scaffold1083	118673	AA	CC	1946995147
SNP_P4_153725_119803	NW_004516385.1	Scaffold1083	119803	AA	GG	1946995149
SNP_P4_153726_119807	NW_004516385.1	Scaffold1083	119807	GG	AA	1946995151
SNP_P4_153727_119816	NW_004516385.1	Scaffold1083	119816	AA	GG	1946995153
SNP_P4_153728_119874	NW_004516385.1	Scaffold1083	119874	AA	GG	1946995155
SNP_P4_153729_119889	NW_004516385.1	Scaffold1083	119889	CC	GG	1946995157
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_153732_120093	NW_004516385.1	Scaffold1083	120093	TT	CC	1946995163
SNP_P4_153733_120129	NW_004516385.1	Scaffold1083	120129	GG	AA	1946995165
SNP_P4_153735_122113	NW_004516385.1	Scaffold1083	122113	AA	GG	1946995167
SNP_P4_153736_122137	NW_004516385.1	Scaffold1083	122137	TT	CC	1946995169
SNP_P4_153737_122240	NW_004516385.1	Scaffold1083	122240	CC	TT	1946995171
SNP_P4_153738_122279	NW_004516385.1	Scaffold1083	122279	GG	CC	1946995173
SNP_P4_153739_122294	NW_004516385.1	Scaffold1083	122294	GG	AA	1946995174
SNP_P4_153740_122309	NW_004516385.1	Scaffold1083	122309	AA	TT	1946995176
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SNP_P4_153743_125793	NW_004516385.1	Scaffold1083	125793	GG	AA	1946995182
SNP_P4_153744_128234	NW_004516385.1	Scaffold1083	128234	GG	CC	1946995184
SNP_P4_153745_128566	NW_004516385.1	Scaffold1083	128566	GG	AA	1946995186
SNP_P4_153746_128916	NW_004516385.1	Scaffold1083	128916	GG	AA	1946995188
SNP_P4_153747_132024	NW_004516385.1	Scaffold1083	132024	TT	AA	1946995189
SNP_P4_153748_132242	NW_004516385.1	Scaffold1083	132242	CC	AA	1946995191
SNP_P4_153749_132244	NW_004516385.1	Scaffold1083	132244	AA	CC	1946995193
SNP_P4_153750_132268	NW_004516385.1	Scaffold1083	132268	TT	AA	1946995195
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SNP_P4_153752_132657	NW_004516385.1	Scaffold1083	132657	AA	TT	1946995199
SNP_P4_153753_132668	NW_004516385.1	Scaffold1083	132668	TT	CC	1946995201
SNP_P4_153754_132669	NW_004516385.1	Scaffold1083	132669	AA	TT	1946995203
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SNP_P4_153764_1161	NW_004516387.1	Scaffold1085	1161	AA	CC	1946995221
SNP_P4_153765_1162	NW_004516387.1	Scaffold1085	1162	TT	CC	1946995223
SNP_P4_153766_7681	NW_004516387.1	Scaffold1085	7681	TT	CC	1946995225
SNP_P4_153767_8018	NW_004516387.1	Scaffold1085	8018	TT	GG	1946995227
SNP_P4_153768_7095	NW_004516389.1	Scaffold1087	7095	CC	TT	1946995229
SNP_P4_153769_12262	NW_004516389.1	Scaffold1087	12262	TT	GG	1946995231
SNP_P4_153770_12271	NW_004516389.1	Scaffold1087	12271	CC	TT	1946995233
SNP_P4_153771_12318	NW_004516389.1	Scaffold1087	12318	TT	CC	1946995235
SNP_P4_153772_12360	NW_004516389.1	Scaffold1087	12360	AA	GG	1946995237
SNP_P4_153773_12386	NW_004516389.1	Scaffold1087	12386	TT	GG	1946995239

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_153775_12421	NW_004516389.1	Scaffold1087	12421	CC	TT	1946995243
SNP_P4_153776_12451	NW_004516389.1	Scaffold1087	12451	CC	TT	1946995245
SNP_P4_153777_12483	NW_004516389.1	Scaffold1087	12483	CC	AA	1946995247
SNP_P4_153778_12498	NW_004516389.1	Scaffold1087	12498	CC	TT	1946995249
SNP_P4_153779_12525	NW_004516389.1	Scaffold1087	12525	CC	TT	1946995251
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SNP_P4_153782_12707	NW_004516389.1	Scaffold1087	12707	GG	AA	1946995255
SNP_P4_153783_12708	NW_004516389.1	Scaffold1087	12708	CC	GG	1946995257
SNP_P4_153784_12870	NW_004516389.1	Scaffold1087	12870	TT	CC	1946995259
SNP_P4_153785_12874	NW_004516389.1	Scaffold1087	12874	GG	AA	1946995261
SNP_P4_153786_12946	NW_004516389.1	Scaffold1087	12946	AA	TT	1946995263
SNP_P4_153787_13031	NW_004516389.1	Scaffold1087	13031	AA	GG	1946995265
SNP_P4_153788_13146	NW_004516389.1	Scaffold1087	13146	TT	CC	1946995267
SNP_P4_153789_13172	NW_004516389.1	Scaffold1087	13172	CC	TT	1946995269
SNP_P4_153790_13246	NW_004516389.1	Scaffold1087	13246	AA	GG	1946995271
SNP_P4_153791_13276	NW_004516389.1	Scaffold1087	13276	GG	AA	1946995272
SNP_P4_153792_13306	NW_004516389.1	Scaffold1087	13306	TT	CC	1946995274
SNP_P4_153793_13321	NW_004516389.1	Scaffold1087	13321	AA	TT	1946995276
SNP_P4_153794_13368	NW_004516389.1	Scaffold1087	13368	TT	CC	1946995278
SNP_P4_153795_13386	NW_004516389.1	Scaffold1087	13386	TT	AA	1946995280
SNP_P4_153796_13402	NW_004516389.1	Scaffold1087	13402	AA	GG	1946995282
SNP_P4_153797_13456	NW_004516389.1	Scaffold1087	13456	AA	TT	1946995284
SNP_P4_153798_13461	NW_004516389.1	Scaffold1087	13461	GG	AA	1946995286
SNP_P4_153800_13585	NW_004516389.1	Scaffold1087	13585	TT	AA	1946995288
SNP_P4_153801_13646	NW_004516389.1	Scaffold1087	13646	AA	GG	1946995290
SNP_P4_153802_13662	NW_004516389.1	Scaffold1087	13662	AA	GG	1946995292
SNP_P4_153803_13747	NW_004516389.1	Scaffold1087	13747	CC	AA	1946995294
SNP_P4_153804_13807	NW_004516389.1	Scaffold1087	13807	AA	GG	1946995296
SNP_P4_153805_13867	NW_004516389.1	Scaffold1087	13867	TT	CC	1946995298
SNP_P4_153806_13868	NW_004516389.1	Scaffold1087	13868	GG	AA	1946995300
SNP_P4_153807_13931	NW_004516389.1	Scaffold1087	13931	AA	CC	1946995302
SNP_P4_153808_14073	NW_004516389.1	Scaffold1087	14073	GG	AA	1946995304
SNP_P4_153809_14082	NW_004516389.1	Scaffold1087	14082	AA	GG	1946995306
SNP_P4_153810_14086	NW_004516389.1	Scaffold1087	14086	AA	TT	1946995309
SNP_P4_153811_14291	NW_004516389.1	Scaffold1087	14291	AA	TT	1946995311
SNP_P4_153812_14373	NW_004516389.1	Scaffold1087	14373	GG	AA	1946995313
SNP_P4_153814_14411	NW_004516389.1	Scaffold1087	14411	TT	CC	1946995315
SNP_P4_153815_14523	NW_004516389.1	Scaffold1087	14523	GG	TT	1946995317
SNP_P4_153816_14567	NW_004516389.1	Scaffold1087	14567	GG	AA	1946995319
SNP_P4_153817_14747	NW_004516389.1	Scaffold1087	14747	AA	TT	1946995321
SNP_P4_153818_14793	NW_004516389.1	Scaffold1087	14793	CC	AA	1946995323

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_153820_14814	NW_004516389.1	Scaffold1087	14814	TT	CC	1946995327
SNP_P4_153822_15169	NW_004516389.1	Scaffold1087	15169	AA	TT	1946995329
SNP_P4_153823_15753	NW_004516389.1	Scaffold1087	15753	TT	CC	1946995331
SNP_P4_153824_15766	NW_004516389.1	Scaffold1087	15766	AA	GG	1946995333
SNP_P4_153825_16489	NW_004516389.1	Scaffold1087	16489	AA	GG	1946995336
SNP_P4_153826_21096	NW_004516389.1	Scaffold1087	21096	GG	AA	1946995338
SNP_P4_153827_22796	NW_004516389.1	Scaffold1087	22796	AA	GG	1946995340
SNP_P4_153828_22797	NW_004516389.1	Scaffold1087	22797	AA	GG	1946995342
SNP_P4_153829_22851	NW_004516389.1	Scaffold1087	22851	AA	GG	1946995344
SNP_P4_153830_22889	NW_004516389.1	Scaffold1087	22889	TT	CC	1946995346
SNP_P4_153831_22935	NW_004516389.1	Scaffold1087	22935	TT	CC	1946995348
SNP_P4_153832_22938	NW_004516389.1	Scaffold1087	22938	TT	AA	1946995350
SNP_P4_153833_22976	NW_004516389.1	Scaffold1087	22976	CC	TT	1946995352
SNP_P4_153834_23005	NW_004516389.1	Scaffold1087	23005	CC	TT	1946995354
SNP_P4_153836_23095	NW_004516389.1	Scaffold1087	23095	TT	AA	1946995356
SNP_P4_153837_23096	NW_004516389.1	Scaffold1087	23096	AA	TT	1946995358
SNP_P4_153839_23242	NW_004516389.1	Scaffold1087	23242	CC	TT	1946995360
SNP_P4_153840_23258	NW_004516389.1	Scaffold1087	23258	TT	CC	1946995362
SNP_P4_153841_23320	NW_004516389.1	Scaffold1087	23320	TT	CC	1946995364
SNP_P4_153842_23335	NW_004516389.1	Scaffold1087	23335	AA	GG	1946995366
SNP_P4_153843_23412	NW_004516389.1	Scaffold1087	23412	GG	TT	1946995368
SNP_P4_153844_23620	NW_004516389.1	Scaffold1087	23620	TT	AA	1946995370
SNP_P4_153845_27855	NW_004516389.1	Scaffold1087	27855	AA	CC	1946995372
SNP_P4_153846_28124	NW_004516389.1	Scaffold1087	28124	CC	TT	1946995374
SNP_P4_153847_28239	NW_004516389.1	Scaffold1087	28239	GG	AA	1946995376
SNP_P4_153848_28246	NW_004516389.1	Scaffold1087	28246	AA	GG	1946995378
SNP_P4_153849_28489	NW_004516389.1	Scaffold1087	28489	CC	AA	1946995380
SNP_P4_153850_28514	NW_004516389.1	Scaffold1087	28514	TT	CC	1946995382
SNP_P4_153851_28521	NW_004516389.1	Scaffold1087	28521	TT	CC	1946995384
SNP_P4_153852_40041	NW_004516389.1	Scaffold1087	40041	AA	GG	1946995386
SNP_P4_153853_40888	NW_004516389.1	Scaffold1087	40888	CC	TT	1946995388
SNP_P4_153854_3244	NW_004516390.1	Scaffold1089	3244	GG	AA	1946995390
SNP_P4_153855_12517	NW_004516390.1	Scaffold1089	12517	CC	TT	1946995392
SNP_P4_153858_77208	NW_004516390.1	Scaffold1089	77208	GG	AA	1946995394
SNP_P4_153859_114121	NW_004516390.1	Scaffold1089	114121	CC	AA	1946995396
SNP_P4_153860_114129	NW_004516390.1	Scaffold1089	114129	AA	GG	1946995398
SNP_P4_153861_151744	NW_004516390.1	Scaffold1089	151744	AA	TT	1946995400
SNP_P4_153862_189468	NW_004516390.1	Scaffold1089	189468	AA	GG	1946995401
SNP_P4_153863_189931	NW_004516390.1	Scaffold1089	189931	AA	GG	1946995402
SNP_P4_153864_201261	NW_004516390.1	Scaffold1089	201261	CC	AA	1946995403
SNP_P4_153865_215054	NW_004516390.1	Scaffold1089	215054	CC	TT	1946995404

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_153867_233644	NW_004516390.1	Scaffold1089	233644	GG	TT	1946995407
SNP_P4_153869_243627	NW_004516390.1	Scaffold1089	243627	AA	GG	1946995409
SNP_P4_153870_243760	NW_004516390.1	Scaffold1089	243760	CC	TT	1946995411
SNP_P4_153871_243907	NW_004516390.1	Scaffold1089	243907	CC	TT	1946995413
SNP_P4_153872_259108	NW_004516390.1	Scaffold1089	259108	CC	TT	1946995415
SNP_P4_153873_259131	NW_004516390.1	Scaffold1089	259131	AA	GG	1946995417
SNP_P4_153874_259348	NW_004516390.1	Scaffold1089	259348	TT	AA	1946995419
SNP_P4_153875_259569	NW_004516390.1	Scaffold1089	259569	AA	GG	1946995421
SNP_P4_153876_259828	NW_004516390.1	Scaffold1089	259828	AA	GG	1946995423
SNP_P4_153877_267493	NW_004516390.1	Scaffold1089	267493	TT	AA	1946995425
SNP_P4_153878_1454	NW_004516391.1	Scaffold1090	1454	CC	TT	1946995427
SNP_P4_153879_2594	NW_004516393.1	Scaffold1092	2594	CC	GG	1946995429
SNP_P4_153880_2633	NW_004516393.1	Scaffold1092	2633	CC	AA	1946995431
SNP_P4_153881_2893	NW_004516393.1	Scaffold1092	2893	CC	AA	1946995433
SNP_P4_153882_2928	NW_004516393.1	Scaffold1092	2928	TT	GG	1946995435
SNP_P4_153883_2934	NW_004516393.1	Scaffold1092	2934	TT	AA	1946995437
SNP_P4_153884_2936	NW_004516393.1	Scaffold1092	2936	AA	TT	1946995439
SNP_P4_153885_3288	NW_004516393.1	Scaffold1092	3288	TT	GG	1946995441
SNP_P4_153886_3323	NW_004516393.1	Scaffold1092	3323	CC	TT	1946995443
SNP_P4_153887_3349	NW_004516393.1	Scaffold1092	3349	GG	AA	1946995445
SNP_P4_153888_5967	NW_004516393.1	Scaffold1092	5967	CC	AA	1946995447
SNP_P4_153889_5991	NW_004516393.1	Scaffold1092	5991	AA	GG	1946995449
SNP_P4_153890_6038	NW_004516393.1	Scaffold1092	6038	AA	GG	1946995451
SNP_P4_153891_6060	NW_004516393.1	Scaffold1092	6060	GG	TT	1946995453
SNP_P4_153892_6286	NW_004516393.1	Scaffold1092	6286	AA	TT	1946995455
SNP_P4_153893_9582	NW_004516393.1	Scaffold1092	9582	AA	GG	1946995457
SNP_P4_153894_10465	NW_004516393.1	Scaffold1092	10465	GG	AA	1946995459
SNP_P4_153895_10764	NW_004516393.1	Scaffold1092	10764	CC	TT	1946995461
SNP_P4_153896_11183	NW_004516393.1	Scaffold1092	11183	CC	GG	1946995463
SNP_P4_153897_11202	NW_004516393.1	Scaffold1092	11202	AA	CC	1946995465
SNP_P4_153898_11267	NW_004516393.1	Scaffold1092	11267	AA	GG	1946995467
SNP_P4_153899_12836	NW_004516393.1	Scaffold1092	12836	CC	GG	1946995469
SNP_P4_153900_13428	NW_004516393.1	Scaffold1092	13428	AA	TT	1946995471
SNP_P4_153903_13605	NW_004516393.1	Scaffold1092	13605	AA	TT	1946995473
SNP_P4_153904_13797	NW_004516393.1	Scaffold1092	13797	CC	TT	1946995475
SNP_P4_153905_17629	NW_004516393.1	Scaffold1092	17629	AA	TT	1946995477
SNP_P4_153906_17788	NW_004516393.1	Scaffold1092	17788	CC	TT	1946995479
SNP_P4_153907_17905	NW_004516393.1	Scaffold1092	17905	AA	CC	1946995481
SNP_P4_153908_17909	NW_004516393.1	Scaffold1092	17909	CC	AA	1946995483
SNP_P4_153909_17926	NW_004516393.1	Scaffold1092	17926	GG	AA	1946995485
SNP_P4_153910_17984	NW_004516393.1	Scaffold1092	17984	TT	CC	1946995487

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_153913_18262	NW_004516393.1	Scaffold1092	18262	AA	TT	1946995491
SNP_P4_153914_18277	NW_004516393.1	Scaffold1092	18277	GG	TT	1946995493
SNP_P4_153915_18428	NW_004516393.1	Scaffold1092	18428	TT	CC	1946995495
SNP_P4_153916_18691	NW_004516393.1	Scaffold1092	18691	CC	TT	1946995497
SNP_P4_153917_18946	NW_004516393.1	Scaffold1092	18946	AA	GG	1946995499
SNP_P4_153918_19137	NW_004516393.1	Scaffold1092	19137	CC	TT	1946995501
SNP_P4_153919_19303	NW_004516393.1	Scaffold1092	19303	CC	AA	1946995503
SNP_P4_153920_19307	NW_004516393.1	Scaffold1092	19307	CC	AA	1946995505
SNP_P4_153921_19339	NW_004516393.1	Scaffold1092	19339	AA	TT	1946995507
SNP_P4_153922_19432	NW_004516393.1	Scaffold1092	19432	TT	CC	1946995509
SNP_P4_153923_19440	NW_004516393.1	Scaffold1092	19440	AA	TT	1946995511
SNP_P4_153924_19467	NW_004516393.1	Scaffold1092	19467	GG	TT	1946995513
SNP_P4_153925_19513	NW_004516393.1	Scaffold1092	19513	TT	CC	1946995515
SNP_P4_153926_22407	NW_004516393.1	Scaffold1092	22407	AA	TT	1946995517
SNP_P4_153927_22470	NW_004516393.1	Scaffold1092	22470	CC	GG	1946995519
SNP_P4_153928_29403	NW_004516393.1	Scaffold1092	29403	GG	TT	1946995521
SNP_P4_153929_29628	NW_004516393.1	Scaffold1092	29628	GG	CC	1946995523
SNP_P4_153930_33613	NW_004516393.1	Scaffold1092	33613	GG	CC	1946995525
SNP_P4_153933_33906	NW_004516393.1	Scaffold1092	33906	GG	AA	1946995527
SNP_P4_153934_33930	NW_004516393.1	Scaffold1092	33930	TT	CC	1946995529
SNP_P4_153935_38007	NW_004516393.1	Scaffold1092	38007	AA	CC	1946995531
SNP_P4_153936_44204	NW_004516393.1	Scaffold1092	44204	TT	GG	1946995533
SNP_P4_153937_45963	NW_004516393.1	Scaffold1092	45963	CC	TT	1946995535
SNP_P4_153938_46961	NW_004516393.1	Scaffold1092	46961	AA	GG	1946995537
SNP_P4_153939_47075	NW_004516393.1	Scaffold1092	47075	TT	CC	1946995539
SNP_P4_153940_57118	NW_004516393.1	Scaffold1092	57118	GG	TT	1946995541
SNP_P4_153941_57130	NW_004516393.1	Scaffold1092	57130	TT	AA	1946995543
SNP_P4_153942_57447	NW_004516393.1	Scaffold1092	57447	GG	CC	1946995545
SNP_P4_153943_57488	NW_004516393.1	Scaffold1092	57488	GG	TT	1946995547
SNP_P4_153944_57514	NW_004516393.1	Scaffold1092	57514	CC	TT	1946995549
SNP_P4_153945_57702	NW_004516393.1	Scaffold1092	57702	AA	GG	1946995551
SNP_P4_153946_58398	NW_004516393.1	Scaffold1092	58398	AA	TT	1946995553
SNP_P4_153947_58631	NW_004516393.1	Scaffold1092	58631	AA	CC	1946995555
SNP_P4_153948_60966	NW_004516393.1	Scaffold1092	60966	TT	GG	1946995557
SNP_P4_153949_63385	NW_004516393.1	Scaffold1092	63385	CC	TT	1946995559
SNP_P4_153950_64390	NW_004516393.1	Scaffold1092	64390	AA	GG	1946995561
SNP_P4_153951_64470	NW_004516393.1	Scaffold1092	64470	CC	AA	1946995563
SNP_P4_153952_64521	NW_004516393.1	Scaffold1092	64521	GG	TT	1946995565
SNP_P4_153953_64746	NW_004516393.1	Scaffold1092	64746	AA	TT	1946995567
SNP_P4_153955_65434	NW_004516393.1	Scaffold1092	65434	TT	AA	1946995569
SNP_P4_153956_65502	NW_004516393.1	Scaffold1092	65502	CC	GG	1946995571

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_153958_67688	NW_004516393.1	Scaffold1092	67688	TT	CC	1946995575
SNP_P4_153959_67690	NW_004516393.1	Scaffold1092	67690	GG	AA	1946995577
SNP_P4_153960_68309	NW_004516393.1	Scaffold1092	68309	GG	AA	1946995579
SNP_P4_153961_72334	NW_004516393.1	Scaffold1092	72334	AA	GG	1946995581
SNP_P4_153962_72981	NW_004516393.1	Scaffold1092	72981	AA	GG	1946995583
SNP_P4_153963_73869	NW_004516393.1	Scaffold1092	73869	TT	GG	1946995585
SNP_P4_153964_75400	NW_004516393.1	Scaffold1092	75400	TT	AA	1946995587
SNP_P4_153965_75532	NW_004516393.1	Scaffold1092	75532	TT	AA	1946995589
SNP_P4_153966_75920	NW_004516393.1	Scaffold1092	75920	TT	CC	1946995591
SNP_P4_153967_75961	NW_004516393.1	Scaffold1092	75961	AA	GG	1946995593
SNP_P4_153968_77647	NW_004516393.1	Scaffold1092	77647	GG	TT	1946995595
SNP_P4_153970_82408	NW_004516393.1	Scaffold1092	82408	CC	AA	1946995597
SNP_P4_153971_82680	NW_004516393.1	Scaffold1092	82680	TT	CC	1946995599
SNP_P4_153972_82800	NW_004516393.1	Scaffold1092	82800	TT	AA	1946995601
SNP_P4_153973_82903	NW_004516393.1	Scaffold1092	82903	GG	CC	1946995603
SNP_P4_153975_85396	NW_004516393.1	Scaffold1092	85396	TT	AA	1946995605
SNP_P4_153976_85461	NW_004516393.1	Scaffold1092	85461	TT	GG	1946995607
SNP_P4_153977_86804	NW_004516393.1	Scaffold1092	86804	GG	TT	1946995609
SNP_P4_153978_87027	NW_004516393.1	Scaffold1092	87027	TT	GG	1946995611
SNP_P4_153979_87835	NW_004516393.1	Scaffold1092	87835	TT	GG	1946995613
SNP_P4_153980_91118	NW_004516393.1	Scaffold1092	91118	TT	GG	1946995615
SNP_P4_153981_91616	NW_004516393.1	Scaffold1092	91616	TT	AA	1946995617
SNP_P4_153982_92142	NW_004516393.1	Scaffold1092	92142	CC	AA	1946995619
SNP_P4_153983_92145	NW_004516393.1	Scaffold1092	92145	GG	TT	1946995621
SNP_P4_153984_92184	NW_004516393.1	Scaffold1092	92184	GG	TT	1946995623
SNP_P4_153985_92186	NW_004516393.1	Scaffold1092	92186	CC	TT	1946995625
SNP_P4_153986_92381	NW_004516393.1	Scaffold1092	92381	CC	TT	1946995627
SNP_P4_153987_94523	NW_004516393.1	Scaffold1092	94523	AA	TT	1946995629
SNP_P4_153988_94740	NW_004516393.1	Scaffold1092	94740	AA	CC	1946995631
SNP_P4_153989_94742	NW_004516393.1	Scaffold1092	94742	TT	AA	1946995633
SNP_P4_153991_94859	NW_004516393.1	Scaffold1092	94859	TT	GG	1946995635
SNP_P4_153992_95098	NW_004516393.1	Scaffold1092	95098	TT	CC	1946995637
SNP_P4_153993_95420	NW_004516393.1	Scaffold1092	95420	AA	TT	1946995639
SNP_P4_153994_101926	NW_004516393.1	Scaffold1092	101926	CC	TT	1946995641
SNP_P4_153995_101994	NW_004516393.1	Scaffold1092	101994	GG	AA	1946995643
SNP_P4_153996_102071	NW_004516393.1	Scaffold1092	102071	TT	GG	1946995645
SNP_P4_153997_102106	NW_004516393.1	Scaffold1092	102106	TT	AA	1946995647
SNP_P4_153998_102133	NW_004516393.1	Scaffold1092	102133	CC	GG	1946995649
SNP_P4_153999_103452	NW_004516393.1	Scaffold1092	103452	GG	CC	1946995651
SNP_P4_154000_103453	NW_004516393.1	Scaffold1092	103453	TT	AA	1946995653
SNP_P4_154001_103662	NW_004516393.1	Scaffold1092	103662	CC	GG	1946995655

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_154003_105067	NW_004516393.1	Scaffold1092	105067	GG	AA	1946995659
SNP_P4_154004_105183	NW_004516393.1	Scaffold1092	105183	CC	TT	1946995661
SNP_P4_154005_105209	NW_004516393.1	Scaffold1092	105209	CC	GG	1946995663
SNP_P4_154006_105210	NW_004516393.1	Scaffold1092	105210	GG	AA	1946995665
SNP_P4_154007_105241	NW_004516393.1	Scaffold1092	105241	GG	AA	1946995667
SNP_P4_154008_105395	NW_004516393.1	Scaffold1092	105395	AA	GG	1946995669
SNP_P4_154009_105600	NW_004516393.1	Scaffold1092	105600	GG	TT	1946995671
SNP_P4_154010_105661	NW_004516393.1	Scaffold1092	105661	TT	CC	1946995673
SNP_P4_154011_110345	NW_004516393.1	Scaffold1092	110345	CC	TT	1946995675
SNP_P4_154012_110607	NW_004516393.1	Scaffold1092	110607	GG	AA	1946995677
SNP_P4_154013_110737	NW_004516393.1	Scaffold1092	110737	GG	TT	1946995679
SNP_P4_154014_110939	NW_004516393.1	Scaffold1092	110939	CC	AA	1946995681
SNP_P4_154015_110952	NW_004516393.1	Scaffold1092	110952	GG	CC	1946995683
SNP_P4_154016_111696	NW_004516393.1	Scaffold1092	111696	TT	CC	1946995685
SNP_P4_154017_112051	NW_004516393.1	Scaffold1092	112051	AA	CC	1946995687
SNP_P4_154018_112103	NW_004516393.1	Scaffold1092	112103	AA	TT	1946995689
SNP_P4_154019_112211	NW_004516393.1	Scaffold1092	112211	CC	TT	1946995691
SNP_P4_154020_112222	NW_004516393.1	Scaffold1092	112222	CC	GG	1946995693
SNP_P4_154021_112236	NW_004516393.1	Scaffold1092	112236	AA	GG	1946995695
SNP_P4_154022_114050	NW_004516393.1	Scaffold1092	114050	CC	AA	1946995697
SNP_P4_154023_114174	NW_004516393.1	Scaffold1092	114174	TT	AA	1946995699
SNP_P4_154024_114182	NW_004516393.1	Scaffold1092	114182	GG	CC	1946995701
SNP_P4_154025_114349	NW_004516393.1	Scaffold1092	114349	CC	AA	1946995703
SNP_P4_154026_114479	NW_004516393.1	Scaffold1092	114479	AA	GG	1946995705
SNP_P4_154027_114560	NW_004516393.1	Scaffold1092	114560	TT	AA	1946995707
SNP_P4_154028_114582	NW_004516393.1	Scaffold1092	114582	TT	CC	1946995709
SNP_P4_154029_114652	NW_004516393.1	Scaffold1092	114652	GG	CC	1946995711
SNP_P4_154030_115099	NW_004516393.1	Scaffold1092	115099	AA	TT	1946995713
SNP_P4_154031_115129	NW_004516393.1	Scaffold1092	115129	TT	CC	1946995715
SNP_P4_154032_115144	NW_004516393.1	Scaffold1092	115144	GG	CC	1946995717
SNP_P4_154033_115197	NW_004516393.1	Scaffold1092	115197	TT	GG	1946995719
SNP_P4_154034_115457	NW_004516393.1	Scaffold1092	115457	AA	GG	1946995721
SNP_P4_154035_116693	NW_004516393.1	Scaffold1092	116693	GG	AA	1946995723
SNP_P4_154036_116740	NW_004516393.1	Scaffold1092	116740	AA	TT	1946995725
SNP_P4_154037_116777	NW_004516393.1	Scaffold1092	116777	TT	CC	1946995727
SNP_P4_154038_116820	NW_004516393.1	Scaffold1092	116820	TT	AA	1946995729
SNP_P4_154039_116829	NW_004516393.1	Scaffold1092	116829	TT	GG	1946995731
SNP_P4_154040_116851	NW_004516393.1	Scaffold1092	116851	TT	AA	1946995733
SNP_P4_154041_116879	NW_004516393.1	Scaffold1092	116879	AA	TT	1946995735
SNP_P4_154042_116900	NW_004516393.1	Scaffold1092	116900	TT	GG	1946995737
SNP_P4_154043_116995	NW_004516393.1	Scaffold1092	116995	AA	GG	1946995739

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_154046_117391	NW_004516393.1	Scaffold1092	117391	AA	TT	1946995743
SNP_P4_154047_117398	NW_004516393.1	Scaffold1092	117398	AA	GG	1946995745
SNP_P4_154048_117408	NW_004516393.1	Scaffold1092	117408	TT	AA	1946995747
SNP_P4_154049_117437	NW_004516393.1	Scaffold1092	117437	TT	GG	1946995749
SNP_P4_154050_117439	NW_004516393.1	Scaffold1092	117439	CC	TT	1946995751
SNP_P4_154051_117452	NW_004516393.1	Scaffold1092	117452	TT	CC	1946995753
SNP_P4_154052_117589	NW_004516393.1	Scaffold1092	117589	TT	AA	1946995755
SNP_P4_154053_117793	NW_004516393.1	Scaffold1092	117793	TT	GG	1946995757
SNP_P4_154054_117841	NW_004516393.1	Scaffold1092	117841	GG	AA	1946995759
SNP_P4_154055_117986	NW_004516393.1	Scaffold1092	117986	TT	CC	1946995761
SNP_P4_154056_118244	NW_004516393.1	Scaffold1092	118244	TT	CC	1946995763
SNP_P4_154057_118908	NW_004516393.1	Scaffold1092	118908	GG	TT	1946995765
SNP_P4_154058_119122	NW_004516393.1	Scaffold1092	119122	GG	AA	1946995767
SNP_P4_154059_119137	NW_004516393.1	Scaffold1092	119137	AA	TT	1946995770
SNP_P4_154060_119148	NW_004516393.1	Scaffold1092	119148	TT	AA	1946995772
SNP_P4_154061_119240	NW_004516393.1	Scaffold1092	119240	AA	CC	1946995774
SNP_P4_154062_119243	NW_004516393.1	Scaffold1092	119243	TT	AA	1946995776
SNP_P4_154063_119450	NW_004516393.1	Scaffold1092	119450	TT	AA	1946995778
SNP_P4_154064_119505	NW_004516393.1	Scaffold1092	119505	GG	AA	1946995780
SNP_P4_154065_119541	NW_004516393.1	Scaffold1092	119541	CC	TT	1946995782
SNP_P4_154066_119552	NW_004516393.1	Scaffold1092	119552	GG	CC	1946995783
SNP_P4_154067_121098	NW_004516393.1	Scaffold1092	121098	AA	TT	1946995785
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SNP_P4_154070_122096	NW_004516393.1	Scaffold1092	122096	TT	AA	1946995789
SNP_P4_154071_122112	NW_004516393.1	Scaffold1092	122112	TT	AA	1946995791
SNP_P4_154072_122191	NW_004516393.1	Scaffold1092	122191	AA	TT	1946995793
SNP_P4_154074_122298	NW_004516393.1	Scaffold1092	122298	TT	GG	1946995795
SNP_P4_154075_122361	NW_004516393.1	Scaffold1092	122361	GG	TT	1946995797
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SNP_P4_154077_122423	NW_004516393.1	Scaffold1092	122423	TT	CC	1946995801
SNP_P4_154078_122474	NW_004516393.1	Scaffold1092	122474	CC	AA	1946995803
SNP_P4_154079_122726	NW_004516393.1	Scaffold1092	122726	AA	GG	1946995805
SNP_P4_154080_122781	NW_004516393.1	Scaffold1092	122781	TT	GG	1946995807
SNP_P4_154081_125742	NW_004516393.1	Scaffold1092	125742	AA	TT	1946995809
SNP_P4_154082_127843	NW_004516393.1	Scaffold1092	127843	GG	TT	1946995811
SNP_P4_154083_128080	NW_004516393.1	Scaffold1092	128080	TT	CC	1946995813
SNP_P4_154084_130425	NW_004516393.1	Scaffold1092	130425	AA	GG	1946995815
SNP_P4_154085_138199	NW_004516393.1	Scaffold1092	138199	AA	GG	1946995816
SNP_P4_154086_138709	NW_004516393.1	Scaffold1092	138709	GG	CC	1946995818
SNP_P4_154087_139135	NW_004516393.1	Scaffold1092	139135	GG	AA	1946995820
SNP_P4_154088_139166	NW_004516393.1	Scaffold1092	139166	TT	AA	1946995822

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_154091_139302	NW_004516393.1	Scaffold1092	139302	GG	AA	1946995826
SNP_P4_154092_139339	NW_004516393.1	Scaffold1092	139339	CC	TT	1946995828
SNP_P4_154093_139376	NW_004516393.1	Scaffold1092	139376	CC	GG	1946995830
SNP_P4_154094_139431	NW_004516393.1	Scaffold1092	139431	AA	GG	1946995832
SNP_P4_154095_139478	NW_004516393.1	Scaffold1092	139478	TT	CC	1946995834
SNP_P4_154096_139481	NW_004516393.1	Scaffold1092	139481	GG	AA	1946995836
SNP_P4_154097_139571	NW_004516393.1	Scaffold1092	139571	TT	GG	1946995838
SNP_P4_154098_139654	NW_004516393.1	Scaffold1092	139654	AA	GG	1946995839
SNP_P4_154099_139682	NW_004516393.1	Scaffold1092	139682	GG	AA	1946995841
SNP_P4_154100_139743	NW_004516393.1	Scaffold1092	139743	TT	CC	1946995843
SNP_P4_154101_139748	NW_004516393.1	Scaffold1092	139748	AA	GG	1946995845
SNP_P4_154102_139781	NW_004516393.1	Scaffold1092	139781	GG	AA	1946995847
SNP_P4_154103_139869	NW_004516393.1	Scaffold1092	139869	AA	CC	1946995849
SNP_P4_154104_139870	NW_004516393.1	Scaffold1092	139870	TT	GG	1946995851
SNP_P4_154105_140420	NW_004516393.1	Scaffold1092	140420	AA	GG	1946995853
SNP_P4_154106_141168	NW_004516393.1	Scaffold1092	141168	AA	CC	1946995855
SNP_P4_154107_141332	NW_004516393.1	Scaffold1092	141332	AA	TT	1946995857
SNP_P4_154108_141405	NW_004516393.1	Scaffold1092	141405	GG	AA	1946995859
SNP_P4_154109_141674	NW_004516393.1	Scaffold1092	141674	AA	TT	1946995861
SNP_P4_154110_141849	NW_004516393.1	Scaffold1092	141849	GG	AA	1946995863
SNP_P4_154111_142155	NW_004516393.1	Scaffold1092	142155	GG	TT	1946995865
SNP_P4_154112_142418	NW_004516393.1	Scaffold1092	142418	AA	GG	1946995867
SNP_P4_154113_142465	NW_004516393.1	Scaffold1092	142465	TT	CC	1946995869
SNP_P4_154114_142620	NW_004516393.1	Scaffold1092	142620	CC	TT	1946995871
SNP_P4_154115_142710	NW_004516393.1	Scaffold1092	142710	TT	CC	1946995873
SNP_P4_154116_142757	NW_004516393.1	Scaffold1092	142757	CC	TT	1946995875
SNP_P4_154117_142772	NW_004516393.1	Scaffold1092	142772	GG	CC	1946995877
SNP_P4_154118_143221	NW_004516393.1	Scaffold1092	143221	GG	AA	1946995879
SNP_P4_154119_144387	NW_004516393.1	Scaffold1092	144387	GG	TT	1946995882
SNP_P4_154120_145373	NW_004516393.1	Scaffold1092	145373	GG	AA	1946995884
SNP_P4_154121_145550	NW_004516393.1	Scaffold1092	145550	CC	GG	1946995886
SNP_P4_154122_146083	NW_004516393.1	Scaffold1092	146083	CC	TT	1946995888
SNP_P4_154123_146132	NW_004516393.1	Scaffold1092	146132	AA	GG	1946995890
SNP_P4_154124_146395	NW_004516393.1	Scaffold1092	146395	TT	CC	1946995892
SNP_P4_154125_146429	NW_004516393.1	Scaffold1092	146429	AA	GG	1946995894
SNP_P4_154126_146546	NW_004516393.1	Scaffold1092	146546	CC	GG	1946995896
SNP_P4_154127_146717	NW_004516393.1	Scaffold1092	146717	CC	TT	1946995898
SNP_P4_154129_146836	NW_004516393.1	Scaffold1092	146836	CC	TT	1946995900
SNP_P4_154130_146877	NW_004516393.1	Scaffold1092	146877	CC	GG	1946995902
SNP_P4_154131_147132	NW_004516393.1	Scaffold1092	147132	TT	AA	1946995904
SNP_P4_154132_147193	NW_004516393.1	Scaffold1092	147193	AA	TT	1946995906

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_154134_147947	NW_004516393.1	Scaffold1092	147947	AA	TT	1946995910
SNP_P4_154135_147968	NW_004516393.1	Scaffold1092	147968	CC	GG	1946995912
SNP_P4_154136_148278	NW_004516393.1	Scaffold1092	148278	GG	CC	1946995914
SNP_P4_154137_150679	NW_004516393.1	Scaffold1092	150679	TT	AA	1946995916
SNP_P4_154138_150815	NW_004516393.1	Scaffold1092	150815	GG	AA	1946995918
SNP_P4_154139_152490	NW_004516393.1	Scaffold1092	152490	AA	TT	1946995920
SNP_P4_154140_152515	NW_004516393.1	Scaffold1092	152515	CC	AA	1946995922
SNP_P4_154141_152603	NW_004516393.1	Scaffold1092	152603	TT	CC	1946995924
SNP_P4_154142_152660	NW_004516393.1	Scaffold1092	152660	CC	TT	1946995926
SNP_P4_154143_152766	NW_004516393.1	Scaffold1092	152766	TT	AA	1946995928
SNP_P4_154144_152938	NW_004516393.1	Scaffold1092	152938	TT	AA	1946995930
SNP_P4_154145_155531	NW_004516393.1	Scaffold1092	155531	AA	TT	1946995932
SNP_P4_154146_156899	NW_004516393.1	Scaffold1092	156899	TT	CC	1946995935
SNP_P4_154147_156929	NW_004516393.1	Scaffold1092	156929	AA	CC	1946995937
SNP_P4_154148_157580	NW_004516393.1	Scaffold1092	157580	TT	GG	1946995939
SNP_P4_154149_2880	NW_004516394.1	Scaffold1095	2880	TT	GG	1946995941
SNP_P4_154150_2920	NW_004516394.1	Scaffold1095	2920	CC	AA	1946995943
SNP_P4_154151_5751	NW_004516394.1	Scaffold1095	5751	TT	AA	1946995945
SNP_P4_154152_6020	NW_004516394.1	Scaffold1095	6020	CC	TT	1946995947
SNP_P4_154153_20318	NW_004516394.1	Scaffold1095	20318	AA	GG	1946995949
SNP_P4_154154_26005	NW_004516394.1	Scaffold1095	26005	CC	TT	1946995951
SNP_P4_154155_26103	NW_004516394.1	Scaffold1095	26103	TT	CC	1946995953
SNP_P4_154156_26335	NW_004516394.1	Scaffold1095	26335	TT	AA	1946995955
SNP_P4_154157_26610	NW_004516394.1	Scaffold1095	26610	AA	GG	1946995957
SNP_P4_154158_38876	NW_004516394.1	Scaffold1095	38876	TT	AA	1946995959
SNP_P4_154160_1741	NW_004516396.1	Scaffold1101	1741	AA	TT	1946995961
SNP_P4_154161_3375	NW_004516396.1	Scaffold1101	3375	TT	CC	1946995963
SNP_P4_154163_3956	NW_004516396.1	Scaffold1101	3956	CC	GG	1946995966
SNP_P4_154164_3967	NW_004516396.1	Scaffold1101	3967	CC	GG	1946995968
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SNP_P4_154167_5955	NW_004516397.1	Scaffold1102	5955	GG	TT	1946995974
SNP_P4_154168_11031	NW_004516397.1	Scaffold1102	11031	TT	CC	1946995976
SNP_P4_154169_11312	NW_004516397.1	Scaffold1102	11312	AA	CC	1946995978
SNP_P4_154170_1710	NW_004516398.1	Scaffold1103	1710	GG	AA	1946995980
SNP_P4_154171_1869	NW_004516398.1	Scaffold1103	1869	AA	GG	1946995982
SNP_P4_154172_3082	NW_004516398.1	Scaffold1103	3082	CC	AA	1946995984
SNP_P4_154173_3095	NW_004516398.1	Scaffold1103	3095	GG	AA	1946995986
SNP_P4_154174_8921	NW_004516398.1	Scaffold1103	8921	TT	GG	1946995988
SNP_P4_154175_25202	NW_004516398.1	Scaffold1103	25202	CC	AA	1946995990
SNP_P4_154178_13365	NW_004516401.1	Scaffold1107	13365	TT	CC	1946995992

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_154180_36157	NW_004516401.1	Scaffold1107	36157	GG	CC	1946995996
SNP_P4_154181_54123	NW_004516401.1	Scaffold1107	54123	TT	CC	1946995998
SNP_P4_154182_58346	NW_004516401.1	Scaffold1107	58346	AA	GG	1946996000
SNP_P4_154183_58350	NW_004516401.1	Scaffold1107	58350	AA	GG	1946996002
SNP_P4_154184_58352	NW_004516401.1	Scaffold1107	58352	GG	AA	1946996004
SNP_P4_154185_58362	NW_004516401.1	Scaffold1107	58362	AA	GG	1946996006
SNP_P4_154186_58382	NW_004516401.1	Scaffold1107	58382	TT	GG	1946996008
SNP_P4_154187_71291	NW_004516401.1	Scaffold1107	71291	CC	TT	1946996010
SNP_P4_154188_73854	NW_004516401.1	Scaffold1107	73854	CC	TT	1946996012
SNP_P4_154189_74054	NW_004516401.1	Scaffold1107	74054	TT	AA	1946996014
SNP_P4_154190_74108	NW_004516401.1	Scaffold1107	74108	TT	GG	1946996016
SNP_P4_154191_74862	NW_004516401.1	Scaffold1107	74862	CC	TT	1946996018
SNP_P4_154192_74885	NW_004516401.1	Scaffold1107	74885	TT	CC	1946996020
SNP_P4_154193_74960	NW_004516401.1	Scaffold1107	74960	AA	TT	1946996022
SNP_P4_154194_75883	NW_004516401.1	Scaffold1107	75883	AA	GG	1946996024
SNP_P4_154195_75920	NW_004516401.1	Scaffold1107	75920	CC	TT	1946996026
SNP_P4_154196_75931	NW_004516401.1	Scaffold1107	75931	GG	AA	1946996028
SNP_P4_154197_86264	NW_004516401.1	Scaffold1107	86264	TT	CC	1946996030
SNP_P4_154198_87015	NW_004516401.1	Scaffold1107	87015	GG	TT	1946996032
SNP_P4_154199_93946	NW_004516401.1	Scaffold1107	93946	GG	TT	1946996034
SNP_P4_154200_94046	NW_004516401.1	Scaffold1107	94046	GG	TT	1946996036
SNP_P4_154201_94067	NW_004516401.1	Scaffold1107	94067	CC	AA	1946996038
SNP_P4_154202_94153	NW_004516401.1	Scaffold1107	94153	CC	AA	1946996040
SNP_P4_154203_94160	NW_004516401.1	Scaffold1107	94160	GG	TT	1946996042
SNP_P4_154204_94203	NW_004516401.1	Scaffold1107	94203	CC	AA	1946996044
SNP_P4_154205_94205	NW_004516401.1	Scaffold1107	94205	AA	GG	1946996046
SNP_P4_154206_94216	NW_004516401.1	Scaffold1107	94216	AA	CC	1946996048
SNP_P4_154207_94241	NW_004516401.1	Scaffold1107	94241	AA	TT	1946996050
SNP_P4_154208_94258	NW_004516401.1	Scaffold1107	94258	GG	CC	1946996052
SNP_P4_154209_100305	NW_004516401.1	Scaffold1107	100305	AA	TT	1946996054
SNP_P4_154210_100643	NW_004516401.1	Scaffold1107	100643	CC	TT	1946996056
SNP_P4_154211_843	NW_004516402.1	Scaffold1108	843	GG	TT	1946996058
SNP_P4_154212_988	NW_004516402.1	Scaffold1108	988	TT	GG	1946996060
SNP_P4_154213_2940	NW_004516402.1	Scaffold1108	2940	TT	CC	1946996062
SNP_P4_154214_10180	NW_004516403.1	Scaffold1109	10180	TT	AA	1946996064
SNP_P4_154215_12335	NW_004516403.1	Scaffold1109	12335	AA	CC	1946996066
SNP_P4_154216_12666	NW_004516403.1	Scaffold1109	12666	AA	TT	1946996068
SNP_P4_154217_12699	NW_004516403.1	Scaffold1109	12699	AA	TT	1946996070
SNP_P4_154218_12702	NW_004516403.1	Scaffold1109	12702	AA	TT	1946996072
SNP_P4_154219_12710	NW_004516403.1	Scaffold1109	12710	CC	AA	1946996074
SNP_P4_154220_12765	NW_004516403.1	Scaffold1109	12765	GG	AA	1946996076

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_154222_13470	NW_004516403.1	Scaffold1109	13470	AA	GG	1946996080
SNP_P4_154223_13479	NW_004516403.1	Scaffold1109	13479	CC	TT	1946996082
SNP_P4_154224_13493	NW_004516403.1	Scaffold1109	13493	CC	AA	1946996084
SNP_P4_154225_13494	NW_004516403.1	Scaffold1109	13494	GG	AA	1946996086
SNP_P4_154226_13545	NW_004516403.1	Scaffold1109	13545	CC	GG	1946996088
SNP_P4_154227_13549	NW_004516403.1	Scaffold1109	13549	AA	GG	1946996090
SNP_P4_154228_13552	NW_004516403.1	Scaffold1109	13552	CC	TT	1946996092
SNP_P4_154229_13573	NW_004516403.1	Scaffold1109	13573	AA	GG	1946996094
SNP_P4_154230_13584	NW_004516403.1	Scaffold1109	13584	TT	GG	1946996096
SNP_P4_154231_13593	NW_004516403.1	Scaffold1109	13593	AA	GG	1946996098
SNP_P4_154232_13615	NW_004516403.1	Scaffold1109	13615	TT	AA	1946996100
SNP_P4_154233_13627	NW_004516403.1	Scaffold1109	13627	AA	CC	1946996102
SNP_P4_154234_13635	NW_004516403.1	Scaffold1109	13635	CC	AA	1946996104
SNP_P4_154235_13658	NW_004516403.1	Scaffold1109	13658	TT	CC	1946996106
SNP_P4_154236_13692	NW_004516403.1	Scaffold1109	13692	TT	CC	1946996108
SNP_P4_154237_13714	NW_004516403.1	Scaffold1109	13714	AA	TT	1946996110
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SNP_P4_154240_13819	NW_004516403.1	Scaffold1109	13819	TT	GG	1946996116
SNP_P4_154241_13916	NW_004516403.1	Scaffold1109	13916	TT	GG	1946996118
SNP_P4_154245_24096	NW_004516403.1	Scaffold1109	24096	AA	TT	1946996120
SNP_P4_154246_24154	NW_004516403.1	Scaffold1109	24154	AA	GG	1946996122
SNP_P4_154247_24200	NW_004516403.1	Scaffold1109	24200	CC	AA	1946996124
SNP_P4_154248_24210	NW_004516403.1	Scaffold1109	24210	CC	GG	1946996126
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SNP_P4_154251_26703	NW_004516403.1	Scaffold1109	26703	GG	AA	1946996132
SNP_P4_154252_26713	NW_004516403.1	Scaffold1109	26713	TT	AA	1946996134
SNP_P4_154253_43827	NW_004516403.1	Scaffold1109	43827	TT	AA	1946996136
SNP_P4_154255_65469	NW_004516403.1	Scaffold1109	65469	TT	CC	1946996138
SNP_P4_154256_84886	NW_004516403.1	Scaffold1109	84886	TT	CC	1946996140
SNP_P4_154257_87861	NW_004516403.1	Scaffold1109	87861	AA	GG	1946996142
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SNP_P4_154259_97631	NW_004516403.1	Scaffold1109	97631	AA	TT	1946996146
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SNP_P4_154261_97800	NW_004516403.1	Scaffold1109	97800	AA	CC	1946996150
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SNP_P4_154264_97946	NW_004516403.1	Scaffold1109	97946	AA	TT	1946996154
SNP_P4_154265_98234	NW_004516403.1	Scaffold1109	98234	TT	GG	1946996156
SNP_P4_154266_98246	NW_004516403.1	Scaffold1109	98246	GG	AA	1946996158
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_154270_124837	NW_004516403.1	Scaffold1109	124837	GG	AA	1946996166
SNP_P4_154271_124846	NW_004516403.1	Scaffold1109	124846	GG	TT	1946996168
SNP_P4_154272_124847	NW_004516403.1	Scaffold1109	124847	CC	TT	1946996170
SNP_P4_154273_124879	NW_004516403.1	Scaffold1109	124879	CC	TT	1946996172
SNP_P4_154274_125496	NW_004516403.1	Scaffold1109	125496	AA	TT	1946996174
SNP_P4_154276_150104	NW_004516403.1	Scaffold1109	150104	TT	CC	1946996176
SNP_P4_154277_150117	NW_004516403.1	Scaffold1109	150117	GG	TT	1946996178
SNP_P4_154278_150138	NW_004516403.1	Scaffold1109	150138	AA	TT	1946996180
SNP_P4_154279_150145	NW_004516403.1	Scaffold1109	150145	GG	TT	1946996182
SNP_P4_154280_153037	NW_004516403.1	Scaffold1109	153037	TT	GG	1946996184
SNP_P4_154281_153080	NW_004516403.1	Scaffold1109	153080	TT	GG	1946996186
SNP_P4_154282_153485	NW_004516403.1	Scaffold1109	153485	TT	GG	1946996188
SNP_P4_154283_153511	NW_004516403.1	Scaffold1109	153511	TT	GG	1946996191
SNP_P4_154284_4446	NW_004516405.1	Scaffold1111	4446	GG	AA	1946996193
SNP_P4_154285_4845	NW_004516405.1	Scaffold1111	4845	TT	CC	1946996195
SNP_P4_154286_4901	NW_004516405.1	Scaffold1111	4901	AA	GG	1946996197
SNP_P4_154287_4988	NW_004516405.1	Scaffold1111	4988	GG	CC	1946996199
SNP_P4_154288_11273	NW_004516405.1	Scaffold1111	11273	GG	AA	1946996201
SNP_P4_154289_19314	NW_004516405.1	Scaffold1111	19314	AA	CC	1946996203
SNP_P4_154290_19317	NW_004516405.1	Scaffold1111	19317	CC	TT	1946996205
SNP_P4_154291_22129	NW_004516405.1	Scaffold1111	22129	TT	GG	1946996207
SNP_P4_154292_26710	NW_004516405.1	Scaffold1111	26710	AA	GG	1946996209
SNP_P4_154293_27869	NW_004516405.1	Scaffold1111	27869	GG	CC	1946996211
SNP_P4_154294_27941	NW_004516405.1	Scaffold1111	27941	GG	TT	1946996213
SNP_P4_154295_27970	NW_004516405.1	Scaffold1111	27970	GG	AA	1946996215
SNP_P4_154296_28155	NW_004516405.1	Scaffold1111	28155	TT	CC	1946996217
SNP_P4_154297_1184	NW_004516406.1	Scaffold1113	1184	TT	CC	1946996219
SNP_P4_154298_1205	NW_004516406.1	Scaffold1113	1205	AA	GG	1946996221
SNP_P4_154299_1211	NW_004516406.1	Scaffold1113	1211	AA	GG	1946996223
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SNP_P4_154301_11429	NW_004516406.1	Scaffold1113	11429	AA	TT	1946996227
SNP_P4_154302_11712	NW_004516406.1	Scaffold1113	11712	CC	TT	1946996229
SNP_P4_154303_11714	NW_004516406.1	Scaffold1113	11714	AA	CC	1946996231
SNP_P4_154304_11796	NW_004516406.1	Scaffold1113	11796	AA	CC	1946996233
SNP_P4_154305_36922	NW_004516406.1	Scaffold1113	36922	AA	GG	1946996235
SNP_P4_154306_5841	NW_004516407.1	Scaffold1114	5841	TT	CC	1946996237
SNP_P4_154307_54642	NW_004516407.1	Scaffold1114	54642	TT	AA	1946996239
SNP_P4_154308_54643	NW_004516407.1	Scaffold1114	54643	TT	AA	1946996241
SNP_P4_154310_62862	NW_004516407.1	Scaffold1114	62862	TT	CC	1946996243
SNP_P4_154311_72037	NW_004516407.1	Scaffold1114	72037	TT	GG	1946996245

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_154313_72336	NW_004516407.1	Scaffold1114	72336	AA	GG	1946996249
SNP_P4_154314_72827	NW_004516407.1	Scaffold1114	72827	AA	CC	1946996251
SNP_P4_154315_72840	NW_004516407.1	Scaffold1114	72840	TT	CC	1946996253
SNP_P4_154316_83619	NW_004516407.1	Scaffold1114	83619	TT	CC	1946996255
SNP_P4_154317_555	NW_004516408.1	Scaffold1115	555	TT	GG	1946996257
SNP_P4_154318_682	NW_004516408.1	Scaffold1115	682	AA	TT	1946996259
SNP_P4_154319_814	NW_004516408.1	Scaffold1115	814	GG	AA	1946996261
SNP_P4_154320_1043	NW_004516408.1	Scaffold1115	1043	AA	TT	1946996263
SNP_P4_154321_1693	NW_004516408.1	Scaffold1115	1693	GG	TT	1946996265
SNP_P4_154322_3463	NW_004516408.1	Scaffold1115	3463	AA	CC	1946996267
SNP_P4_154323_11658	NW_004516408.1	Scaffold1115	11658	CC	TT	1946996269
SNP_P4_154324_39262	NW_004516408.1	Scaffold1115	39262	CC	TT	1946996271
SNP_P4_154325_39275	NW_004516408.1	Scaffold1115	39275	CC	TT	1946996273
SNP_P4_154326_39276	NW_004516408.1	Scaffold1115	39276	CC	TT	1946996275
SNP_P4_154327_39331	NW_004516408.1	Scaffold1115	39331	TT	GG	1946996277
SNP_P4_154328_39332	NW_004516408.1	Scaffold1115	39332	GG	CC	1946996279
SNP_P4_154330_54079	NW_004516408.1	Scaffold1115	54079	CC	AA	1946996281
SNP_P4_154331_54109	NW_004516408.1	Scaffold1115	54109	CC	AA	1946996283
SNP_P4_154332_90164	NW_004516408.1	Scaffold1115	90164	TT	GG	1946996285
SNP_P4_154333_103352	NW_004516408.1	Scaffold1115	103352	TT	CC	1946996287
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SNP_P4_154335_126631	NW_004516408.1	Scaffold1115	126631	CC	TT	1946996291
SNP_P4_154336_153052	NW_004516408.1	Scaffold1115	153052	CC	TT	1946996293
SNP_P4_154337_153054	NW_004516408.1	Scaffold1115	153054	CC	TT	1946996295
SNP_P4_154338_164594	NW_004516408.1	Scaffold1115	164594	CC	TT	1946996297
SNP_P4_154339_2814	NW_004516409.1	Scaffold1116	2814	TT	CC	1946996299
SNP_P4_154340_2820	NW_004516409.1	Scaffold1116	2820	TT	CC	1946996301
SNP_P4_154341_2860	NW_004516409.1	Scaffold1116	2860	TT	CC	1946996303
SNP_P4_154343_2901	NW_004516409.1	Scaffold1116	2901	CC	TT	1946996305
SNP_P4_154344_6171	NW_004516409.1	Scaffold1116	6171	CC	TT	1946996307
SNP_P4_154345_8467	NW_004516409.1	Scaffold1116	8467	TT	AA	1946996309
SNP_P4_154346_16329	NW_004516409.1	Scaffold1116	16329	CC	TT	1946996311
SNP_P4_154347_16351	NW_004516409.1	Scaffold1116	16351	AA	GG	1946996313
SNP_P4_154348_16356	NW_004516409.1	Scaffold1116	16356	TT	AA	1946996315
SNP_P4_154349_16678	NW_004516409.1	Scaffold1116	16678	CC	TT	1946996317
SNP_P4_154350_16687	NW_004516409.1	Scaffold1116	16687	AA	TT	1946996319
SNP_P4_154351_16759	NW_004516409.1	Scaffold1116	16759	GG	AA	1946996321
SNP_P4_154353_19321	NW_004516409.1	Scaffold1116	19321	CC	TT	1946996323
SNP_P4_154354_19350	NW_004516409.1	Scaffold1116	19350	CC	TT	1946996325
SNP_P4_154355_24153	NW_004516409.1	Scaffold1116	24153	GG	AA	1946996327
SNP_P4_154356_25273	NW_004516409.1	Scaffold1116	25273	GG	AA	1946996329

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_154359_25709	NW_004516409.1	Scaffold1116	25709	CC	AA	1946996335
SNP_P4_154360_25737	NW_004516409.1	Scaffold1116	25737	TT	CC	1946996337
SNP_P4_154361_25755	NW_004516409.1	Scaffold1116	25755	TT	CC	1946996339
SNP_P4_154362_25757	NW_004516409.1	Scaffold1116	25757	AA	GG	1946996341
SNP_P4_154363_25773	NW_004516409.1	Scaffold1116	25773	GG	AA	1946996343
SNP_P4_154364_25847	NW_004516409.1	Scaffold1116	25847	AA	GG	1946996345
SNP_P4_154365_28849	NW_004516409.1	Scaffold1116	28849	CC	TT	1946996347
SNP_P4_154366_28852	NW_004516409.1	Scaffold1116	28852	GG	AA	1946996349
SNP_P4_154367_28956	NW_004516409.1	Scaffold1116	28956	AA	GG	1946996351
SNP_P4_154368_28972	NW_004516409.1	Scaffold1116	28972	GG	TT	1946996353
SNP_P4_154369_28973	NW_004516409.1	Scaffold1116	28973	AA	CC	1946996355
SNP_P4_154370_29197	NW_004516409.1	Scaffold1116	29197	CC	TT	1946996357
SNP_P4_154371_29216	NW_004516409.1	Scaffold1116	29216	CC	TT	1946996359
SNP_P4_154372_29278	NW_004516409.1	Scaffold1116	29278	CC	TT	1946996361
SNP_P4_154373_29349	NW_004516409.1	Scaffold1116	29349	CC	GG	1946996363
SNP_P4_154374_29405	NW_004516409.1	Scaffold1116	29405	CC	TT	1946996365
SNP_P4_154375_29512	NW_004516409.1	Scaffold1116	29512	TT	AA	1946996367
SNP_P4_154376_29538	NW_004516409.1	Scaffold1116	29538	CC	TT	1946996369
SNP_P4_154377_31161	NW_004516409.1	Scaffold1116	31161	TT	GG	1946996371
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SNP_P4_154380_31530	NW_004516409.1	Scaffold1116	31530	GG	AA	1946996377
SNP_P4_154381_32461	NW_004516409.1	Scaffold1116	32461	TT	AA	1946996379
SNP_P4_154382_33671	NW_004516409.1	Scaffold1116	33671	GG	TT	1946996381
SNP_P4_154383_38105	NW_004516409.1	Scaffold1116	38105	GG	AA	1946996383
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SNP_P4_154389_44965	NW_004516409.1	Scaffold1116	44965	GG	AA	1946996394
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SNP_P4_154392_60362	NW_004516409.1	Scaffold1116	60362	GG	TT	1946996400
SNP_P4_154393_70524	NW_004516409.1	Scaffold1116	70524	AA	GG	1946996402
SNP_P4_154394_70670	NW_004516409.1	Scaffold1116	70670	CC	TT	1946996404
SNP_P4_154395_70754	NW_004516409.1	Scaffold1116	70754	CC	TT	1946996406
SNP_P4_154396_70760	NW_004516409.1	Scaffold1116	70760	CC	TT	1946996408
SNP_P4_154398_70823	NW_004516409.1	Scaffold1116	70823	AA	GG	1946996410
SNP_P4_154399_70842	NW_004516409.1	Scaffold1116	70842	AA	TT	1946996412
SNP_P4_154400_70845	NW_004516409.1	Scaffold1116	70845	TT	CC	1946996414

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_154403_73705	NW_004516409.1	Scaffold1116	73705	GG	AA	1946996420
SNP_P4_154404_73752	NW_004516409.1	Scaffold1116	73752	CC	TT	1946996422
SNP_P4_154405_73774	NW_004516409.1	Scaffold1116	73774	TT	GG	1946996424
SNP_P4_154406_75014	NW_004516409.1	Scaffold1116	75014	TT	CC	1946996426
SNP_P4_154407_78051	NW_004516409.1	Scaffold1116	78051	GG	TT	1946996428
SNP_P4_154408_78295	NW_004516409.1	Scaffold1116	78295	TT	GG	1946996430
SNP_P4_154409_78303	NW_004516409.1	Scaffold1116	78303	TT	GG	1946996432
SNP_P4_154410_78428	NW_004516409.1	Scaffold1116	78428	CC	TT	1946996434
SNP_P4_154411_92314	NW_004516409.1	Scaffold1116	92314	GG	AA	1946996436
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SNP_P4_154413_94511	NW_004516409.1	Scaffold1116	94511	AA	CC	1946996440
SNP_P4_154414_94657	NW_004516409.1	Scaffold1116	94657	CC	GG	1946996442
SNP_P4_154415_94701	NW_004516409.1	Scaffold1116	94701	TT	CC	1946996444
SNP_P4_154416_94717	NW_004516409.1	Scaffold1116	94717	AA	GG	1946996446
SNP_P4_154417_94730	NW_004516409.1	Scaffold1116	94730	TT	GG	1946996448
SNP_P4_154418_94816	NW_004516409.1	Scaffold1116	94816	AA	CC	1946996450
SNP_P4_154419_94820	NW_004516409.1	Scaffold1116	94820	GG	AA	1946996452
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SNP_P4_154422_95008	NW_004516409.1	Scaffold1116	95008	CC	TT	1946996456
SNP_P4_154423_97818	NW_004516409.1	Scaffold1116	97818	AA	GG	1946996458
SNP_P4_154424_113852	NW_004516409.1	Scaffold1116	113852	GG	AA	1946996460
SNP_P4_154425_116664	NW_004516409.1	Scaffold1116	116664	AA	CC	1946996462
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SNP_P4_154434_122510	NW_004516409.1	Scaffold1116	122510	CC	AA	1946996478
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SNP_P4_154436_122687	NW_004516409.1	Scaffold1116	122687	AA	CC	1946996482
SNP_P4_154437_122772	NW_004516409.1	Scaffold1116	122772	GG	AA	1946996484
SNP_P4_154438_122865	NW_004516409.1	Scaffold1116	122865	TT	CC	1946996486
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SNP_P4_154441_131440	NW_004516409.1	Scaffold1116	131440	GG	AA	1946996492
SNP_P4_154442_132682	NW_004516409.1	Scaffold1116	132682	CC	TT	1946996494
SNP_P4_154443_133784	NW_004516409.1	Scaffold1116	133784	GG	AA	1946996496
SNP_P4_154444_136041	NW_004516409.1	Scaffold1116	136041	TT	CC	1946996498

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_154446_141403	NW_004516409.1	Scaffold1116	141403	TT	CC	1946996502
SNP_P4_154447_141412	NW_004516409.1	Scaffold1116	141412	CC	TT	1946996504
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SNP_P4_154449_141723	NW_004516409.1	Scaffold1116	141723	AA	GG	1946996508
SNP_P4_154450_141955	NW_004516409.1	Scaffold1116	141955	TT	GG	1946996511
SNP_P4_154451_144987	NW_004516409.1	Scaffold1116	144987	GG	AA	1946996513
SNP_P4_154452_1685	NW_004516410.1	Scaffold1118	1685	AA	GG	1946996515
SNP_P4_154453_1969	NW_004516410.1	Scaffold1118	1969	GG	AA	1946996517
SNP_P4_154454_7245	NW_004516410.1	Scaffold1118	7245	GG	AA	1946996519
SNP_P4_154455_9174	NW_004516410.1	Scaffold1118	9174	TT	AA	1946996521
SNP_P4_154456_9185	NW_004516410.1	Scaffold1118	9185	AA	GG	1946996523
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SNP_P4_154460_9585	NW_004516410.1	Scaffold1118	9585	TT	CC	1946996531
SNP_P4_154461_9745	NW_004516410.1	Scaffold1118	9745	AA	CC	1946996533
SNP_P4_154462_9852	NW_004516410.1	Scaffold1118	9852	CC	GG	1946996535
SNP_P4_154463_19003	NW_004516410.1	Scaffold1118	19003	TT	CC	1946996537
SNP_P4_154464_19020	NW_004516410.1	Scaffold1118	19020	CC	TT	1946996539
SNP_P4_154465_20552	NW_004516410.1	Scaffold1118	20552	GG	AA	1946996541
SNP_P4_154466_20588	NW_004516410.1	Scaffold1118	20588	CC	TT	1946996543
SNP_P4_154467_20608	NW_004516410.1	Scaffold1118	20608	TT	CC	1946996545
SNP_P4_154468_23892	NW_004516410.1	Scaffold1118	23892	TT	GG	1946996547
SNP_P4_154469_25881	NW_004516410.1	Scaffold1118	25881	TT	CC	1946996549
SNP_P4_154470_26048	NW_004516410.1	Scaffold1118	26048	AA	GG	1946996551
SNP_P4_154471_26062	NW_004516410.1	Scaffold1118	26062	GG	TT	1946996553
SNP_P4_154472_26095	NW_004516410.1	Scaffold1118	26095	GG	CC	1946996555
SNP_P4_154473_26185	NW_004516410.1	Scaffold1118	26185	AA	GG	1946996557
SNP_P4_154474_26209	NW_004516410.1	Scaffold1118	26209	TT	CC	1946996559
SNP_P4_154475_26230	NW_004516410.1	Scaffold1118	26230	TT	AA	1946996561
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SNP_P4_154482_26645	NW_004516410.1	Scaffold1118	26645	AA	TT	1946996575
SNP_P4_154484_29964	NW_004516410.1	Scaffold1118	29964	AA	CC	1946996577
SNP_P4_154485_30426	NW_004516410.1	Scaffold1118	30426	AA	GG	1946996579
SNP_P4_154486_30586	NW_004516410.1	Scaffold1118	30586	GG	AA	1946996581
SNP_P4_154487_30588	NW_004516410.1	Scaffold1118	30588	TT	CC	1946996583

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_154490_32507	NW_004516410.1	Scaffold1118	32507	TT	CC	1946996589
SNP_P4_154491_32635	NW_004516410.1	Scaffold1118	32635	GG	CC	1946996591
SNP_P4_154492_33094	NW_004516410.1	Scaffold1118	33094	GG	TT	1946996593
SNP_P4_154493_34350	NW_004516410.1	Scaffold1118	34350	GG	TT	1946996595
SNP_P4_154494_34573	NW_004516410.1	Scaffold1118	34573	AA	CC	1946996597
SNP_P4_154496_5253	NW_004516411.1	Scaffold1120	5253	TT	GG	1946996599
SNP_P4_154497_5255	NW_004516411.1	Scaffold1120	5255	GG	AA	1946996601
SNP_P4_154498_7468	NW_004516411.1	Scaffold1120	7468	GG	AA	1946996603
SNP_P4_154499_7488	NW_004516411.1	Scaffold1120	7488	AA	TT	1946996605
SNP_P4_154500_7510	NW_004516411.1	Scaffold1120	7510	AA	TT	1946996607
SNP_P4_154501_7565	NW_004516411.1	Scaffold1120	7565	AA	CC	1946996609
SNP_P4_154502_7594	NW_004516411.1	Scaffold1120	7594	CC	TT	1946996611
SNP_P4_154503_7726	NW_004516411.1	Scaffold1120	7726	AA	GG	1946996613
SNP_P4_154504_7868	NW_004516411.1	Scaffold1120	7868	AA	GG	1946996615
SNP_P4_154505_8007	NW_004516411.1	Scaffold1120	8007	AA	TT	1946996617
SNP_P4_154506_8015	NW_004516411.1	Scaffold1120	8015	AA	GG	1946996619
SNP_P4_154507_11049	NW_004516411.1	Scaffold1120	11049	AA	GG	1946996621
SNP_P4_154508_11088	NW_004516411.1	Scaffold1120	11088	GG	AA	1946996623
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SNP_P4_154514_11189	NW_004516411.1	Scaffold1120	11189	CC	AA	1946996633
SNP_P4_154515_11408	NW_004516411.1	Scaffold1120	11408	GG	AA	1946996635
SNP_P4_154516_11839	NW_004516411.1	Scaffold1120	11839	AA	TT	1946996637
SNP_P4_154517_13816	NW_004516411.1	Scaffold1120	13816	TT	AA	1946996639
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SNP_P4_154520_18380	NW_004516411.1	Scaffold1120	18380	CC	GG	1946996645
SNP_P4_154521_24816	NW_004516411.1	Scaffold1120	24816	CC	AA	1946996646
SNP_P4_154522_26554	NW_004516411.1	Scaffold1120	26554	CC	TT	1946996648
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SNP_P4_154525_46884	NW_004516411.1	Scaffold1120	46884	CC	TT	1946996652
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SNP_P4_154527_53022	NW_004516411.1	Scaffold1120	53022	CC	GG	1946996656
SNP_P4_154528_53261	NW_004516411.1	Scaffold1120	53261	AA	GG	1946996658
SNP_P4_154529_53482	NW_004516411.1	Scaffold1120	53482	TT	GG	1946996660
SNP_P4_154530_58357	NW_004516411.1	Scaffold1120	58357	TT	GG	1946996662
SNP_P4_154531_58358	NW_004516411.1	Scaffold1120	58358	GG	AA	1946996664
SNP_P4_154532_58362	NW_004516411.1	Scaffold1120	58362	AA	TT	1946996666

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_154535_948	NW_004516414.1	Scaffold1126	948	AA	TT	1946996671
SNP_P4_154536_3923	NW_004516414.1	Scaffold1126	3923	TT	CC	1946996673
SNP_P4_154537_4197	NW_004516414.1	Scaffold1126	4197	TT	CC	1946996675
SNP_P4_154538_4277	NW_004516414.1	Scaffold1126	4277	TT	AA	1946996677
SNP_P4_154539_4882	NW_004516414.1	Scaffold1126	4882	TT	AA	1946996679
SNP_P4_154540_5094	NW_004516414.1	Scaffold1126	5094	CC	TT	1946996681
SNP_P4_154541_5101	NW_004516414.1	Scaffold1126	5101	AA	CC	1946996683
SNP_P4_154542_5112	NW_004516414.1	Scaffold1126	5112	GG	AA	1946996684
SNP_P4_154543_5113	NW_004516414.1	Scaffold1126	5113	AA	GG	1946996686
SNP_P4_154544_5302	NW_004516414.1	Scaffold1126	5302	AA	GG	1946996688
SNP_P4_154545_5389	NW_004516414.1	Scaffold1126	5389	CC	AA	1946996690
SNP_P4_154546_5418	NW_004516414.1	Scaffold1126	5418	CC	GG	1946996692
SNP_P4_154547_5519	NW_004516414.1	Scaffold1126	5519	CC	AA	1946996694
SNP_P4_154548_9903	NW_004516414.1	Scaffold1126	9903	TT	GG	1946996696
SNP_P4_154549_10125	NW_004516414.1	Scaffold1126	10125	AA	GG	1946996698
SNP_P4_154550_10808	NW_004516414.1	Scaffold1126	10808	GG	CC	1946996700
SNP_P4_154551_10821	NW_004516414.1	Scaffold1126	10821	CC	AA	1946996702
SNP_P4_154552_66	NW_004516415.1	Scaffold1127	66	GG	CC	1946996703
SNP_P4_154553_111	NW_004516415.1	Scaffold1127	111	AA	GG	1946996705
SNP_P4_154555_8771	NW_004516416.1	Scaffold1128	8771	CC	TT	1946996707
SNP_P4_154556_16934	NW_004516416.1	Scaffold1128	16934	TT	AA	1946996709
SNP_P4_154557_21151	NW_004516416.1	Scaffold1128	21151	AA	GG	1946996711
SNP_P4_154558_21167	NW_004516416.1	Scaffold1128	21167	GG	AA	1946996713
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SNP_P4_154560_27823	NW_004516416.1	Scaffold1128	27823	AA	TT	1946996717
SNP_P4_154561_27854	NW_004516416.1	Scaffold1128	27854	AA	CC	1946996719
SNP_P4_154562_27901	NW_004516416.1	Scaffold1128	27901	AA	TT	1946996721
SNP_P4_154563_27902	NW_004516416.1	Scaffold1128	27902	TT	CC	1946996723
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SNP_P4_154565_37025	NW_004516416.1	Scaffold1128	37025	TT	CC	1946996727
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SNP_P4_154569_58067	NW_004516416.1	Scaffold1128	58067	GG	AA	1946996733
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SNP_P4_154571_74382	NW_004516416.1	Scaffold1128	74382	AA	CC	1946996737
SNP_P4_154572_75564	NW_004516416.1	Scaffold1128	75564	CC	TT	1946996739
SNP_P4_154573_82187	NW_004516416.1	Scaffold1128	82187	CC	TT	1946996741
SNP_P4_154574_96030	NW_004516416.1	Scaffold1128	96030	AA	GG	1946996743
SNP_P4_154575_97081	NW_004516416.1	Scaffold1128	97081	CC	TT	1946996745
SNP_P4_154576_100043	NW_004516416.1	Scaffold1128	100043	TT	CC	1946996747

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_154579_115162	NW_004516416.1	Scaffold1128	115162	CC	TT	1946996751
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SNP_P4_154581_126037	NW_004516416.1	Scaffold1128	126037	CC	TT	1946996755
SNP_P4_154582_146108	NW_004516416.1	Scaffold1128	146108	CC	TT	1946996757
SNP_P4_154583_146154	NW_004516416.1	Scaffold1128	146154	TT	GG	1946996759
SNP_P4_154584_146382	NW_004516416.1	Scaffold1128	146382	TT	CC	1946996761
SNP_P4_154585_146385	NW_004516416.1	Scaffold1128	146385	GG	TT	1946996763
SNP_P4_154586_146451	NW_004516416.1	Scaffold1128	146451	TT	CC	1946996765
SNP_P4_154587_146453	NW_004516416.1	Scaffold1128	146453	TT	GG	1946996767
SNP_P4_154588_146457	NW_004516416.1	Scaffold1128	146457	AA	GG	1946996769
SNP_P4_154589_148704	NW_004516416.1	Scaffold1128	148704	GG	TT	1946996771
SNP_P4_154590_152285	NW_004516416.1	Scaffold1128	152285	CC	GG	1946996773
SNP_P4_154591_156592	NW_004516416.1	Scaffold1128	156592	GG	TT	1946996775
SNP_P4_154592_159308	NW_004516416.1	Scaffold1128	159308	CC	GG	1946996777
SNP_P4_154594_163878	NW_004516416.1	Scaffold1128	163878	TT	CC	1946996779
SNP_P4_154595_178856	NW_004516416.1	Scaffold1128	178856	TT	GG	1946996781
SNP_P4_154597_190655	NW_004516416.1	Scaffold1128	190655	GG	TT	1946996783
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SNP_P4_154599_230263	NW_004516416.1	Scaffold1128	230263	GG	AA	1946996787
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SNP_P4_154620_347430	NW_004516416.1	Scaffold1128	347430	GG	AA	1946996821
SNP_P4_154621_347486	NW_004516416.1	Scaffold1128	347486	TT	CC	1946996823
SNP_P4_154622_347507	NW_004516416.1	Scaffold1128	347507	GG	AA	1946996825
SNP_P4_154623_350112	NW_004516416.1	Scaffold1128	350112	GG	TT	1946996827
SNP_P4_154624_350488	NW_004516416.1	Scaffold1128	350488	CC	TT	1946996829
SNP_P4_154625_350652	NW_004516416.1	Scaffold1128	350652	TT	CC	1946996831

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_154628_354492	NW_004516416.1	Scaffold1128	354492	GG	AA	1946996837
SNP_P4_154629_362225	NW_004516416.1	Scaffold1128	362225	TT	GG	1946996839
SNP_P4_154630_364946	NW_004516416.1	Scaffold1128	364946	AA	GG	1946996841
SNP_P4_154631_365234	NW_004516416.1	Scaffold1128	365234	GG	TT	1946996843
SNP_P4_154632_381065	NW_004516416.1	Scaffold1128	381065	AA	TT	1946996845
SNP_P4_154633_389772	NW_004516416.1	Scaffold1128	389772	TT	AA	1946996847
SNP_P4_154634_395188	NW_004516416.1	Scaffold1128	395188	CC	TT	1946996849
SNP_P4_154635_403546	NW_004516416.1	Scaffold1128	403546	CC	TT	1946996851
SNP_P4_154636_403547	NW_004516416.1	Scaffold1128	403547	AA	GG	1946996853
SNP_P4_154637_406041	NW_004516416.1	Scaffold1128	406041	CC	AA	1946996855
SNP_P4_154638_407685	NW_004516416.1	Scaffold1128	407685	AA	GG	1946996857
SNP_P4_154639_413453	NW_004516416.1	Scaffold1128	413453	TT	CC	1946996859
SNP_P4_154640_413457	NW_004516416.1	Scaffold1128	413457	GG	AA	1946996861
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SNP_P4_154643_413490	NW_004516416.1	Scaffold1128	413490	AA	TT	1946996867
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SNP_P4_154655_479704	NW_004516416.1	Scaffold1128	479704	GG	AA	1946996887
SNP_P4_154656_485484	NW_004516416.1	Scaffold1128	485484	GG	AA	1946996889
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SNP_P4_154658_492031	NW_004516416.1	Scaffold1128	492031	GG	AA	1946996893
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SNP_P4_154660_492308	NW_004516416.1	Scaffold1128	492308	GG	AA	1946996897
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SNP_P4_154662_492647	NW_004516416.1	Scaffold1128	492647	CC	GG	1946996901
SNP_P4_154663_492699	NW_004516416.1	Scaffold1128	492699	TT	GG	1946996903
SNP_P4_154664_492725	NW_004516416.1	Scaffold1128	492725	AA	GG	1946996905
SNP_P4_154665_496297	NW_004516416.1	Scaffold1128	496297	TT	GG	1946996907
SNP_P4_154666_496323	NW_004516416.1	Scaffold1128	496323	AA	GG	1946996909
SNP_P4_154667_496364	NW_004516416.1	Scaffold1128	496364	TT	CC	1946996911
SNP_P4_154668_508606	NW_004516416.1	Scaffold1128	508606	CC	AA	1946996913
SNP_P4_154669_3767	NW_004516418.1	Scaffold1131	3767	AA	CC	1946996915

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_154670_11509	NW_004516418.1	Scaffold1131	11509	TT	CC	1946996917
SNP_P4_154672_17278	NW_004516418.1	Scaffold1131	17278	TT	CC	1946996919
SNP_P4_154673_17582	NW_004516418.1	Scaffold1131	17582	AA	TT	1946996921
SNP_P4_154674_17768	NW_004516418.1	Scaffold1131	17768	GG	AA	1946996923
SNP_P4_154675_29661	NW_004516418.1	Scaffold1131	29661	CC	AA	1946996925
SNP_P4_154676_29755	NW_004516418.1	Scaffold1131	29755	CC	TT	1946996927
SNP_P4_154677_29814	NW_004516418.1	Scaffold1131	29814	TT	CC	1946996929
SNP_P4_154678_29848	NW_004516418.1	Scaffold1131	29848	TT	CC	1946996931
SNP_P4_154680_30070	NW_004516418.1	Scaffold1131	30070	AA	TT	1946996933
SNP_P4_154681_30110	NW_004516418.1	Scaffold1131	30110	CC	AA	1946996935
SNP_P4_154682_30117	NW_004516418.1	Scaffold1131	30117	CC	TT	1946996937
SNP_P4_154683_30136	NW_004516418.1	Scaffold1131	30136	CC	GG	1946996939
SNP_P4_154684_30145	NW_004516418.1	Scaffold1131	30145	GG	AA	1946996941
SNP_P4_154685_30154	NW_004516418.1	Scaffold1131	30154	AA	GG	1946996943
SNP_P4_154686_30175	NW_004516418.1	Scaffold1131	30175	AA	GG	1946996945
SNP_P4_154687_30179	NW_004516418.1	Scaffold1131	30179	AA	GG	1946996947
SNP_P4_154688_30244	NW_004516418.1	Scaffold1131	30244	CC	GG	1946996949
SNP_P4_154689_30294	NW_004516418.1	Scaffold1131	30294	AA	CC	1946996951
SNP_P4_154690_34828	NW_004516418.1	Scaffold1131	34828	GG	AA	1946996953
SNP_P4_154691_39163	NW_004516418.1	Scaffold1131	39163	CC	TT	1946996955
SNP_P4_154692_39349	NW_004516418.1	Scaffold1131	39349	CC	TT	1946996957
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SNP_P4_154694_39462	NW_004516418.1	Scaffold1131	39462	CC	TT	1946996961
SNP_P4_154696_39583	NW_004516418.1	Scaffold1131	39583	TT	CC	1946996963
SNP_P4_154697_39587	NW_004516418.1	Scaffold1131	39587	CC	GG	1946996965
SNP_P4_154699_40200	NW_004516418.1	Scaffold1131	40200	CC	TT	1946996967
SNP_P4_154700_40242	NW_004516418.1	Scaffold1131	40242	GG	AA	1946996969
SNP_P4_154701_40251	NW_004516418.1	Scaffold1131	40251	GG	AA	1946996971
SNP_P4_154702_40502	NW_004516418.1	Scaffold1131	40502	TT	AA	1946996973
SNP_P4_154703_40504	NW_004516418.1	Scaffold1131	40504	AA	CC	1946996975
SNP_P4_154704_40554	NW_004516418.1	Scaffold1131	40554	GG	AA	1946996977
SNP_P4_154705_40561	NW_004516418.1	Scaffold1131	40561	CC	TT	1946996979
SNP_P4_154706_56462	NW_004516418.1	Scaffold1131	56462	GG	AA	1946996981
SNP_P4_154707_56548	NW_004516418.1	Scaffold1131	56548	AA	TT	1946996983
SNP_P4_154708_56938	NW_004516418.1	Scaffold1131	56938	CC	TT	1946996985
SNP_P4_154709_58531	NW_004516418.1	Scaffold1131	58531	AA	GG	1946996987
SNP_P4_154710_81684	NW_004516418.1	Scaffold1131	81684	AA	GG	1946996989
SNP_P4_154711_81759	NW_004516418.1	Scaffold1131	81759	GG	AA	1946996991
SNP_P4_154712_81840	NW_004516418.1	Scaffold1131	81840	AA	GG	1946996992
SNP_P4_154713_81870	NW_004516418.1	Scaffold1131	81870	CC	AA	1946996993
SNP_P4_154714_81914	NW_004516418.1	Scaffold1131	81914	CC	AA	1946996994
SNP_P4_154715_82004	NW_004516418.1	Scaffold1131	82004	TT	GG	1946996996

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_154717_101547	NW_004516418.1	Scaffold1131	101547	TT	CC	1946997000
SNP_P4_154718_101574	NW_004516418.1	Scaffold1131	101574	AA	GG	1946997002
SNP_P4_154719_101587	NW_004516418.1	Scaffold1131	101587	AA	GG	1946997004
SNP_P4_154720_111150	NW_004516418.1	Scaffold1131	111150	CC	AA	1946997006
SNP_P4_154721_112887	NW_004516418.1	Scaffold1131	112887	GG	AA	1946997008
SNP_P4_154722_118011	NW_004516418.1	Scaffold1131	118011	AA	CC	1946997010
SNP_P4_154723_118032	NW_004516418.1	Scaffold1131	118032	AA	GG	1946997012
SNP_P4_154724_118038	NW_004516418.1	Scaffold1131	118038	TT	CC	1946997014
SNP_P4_154725_118041	NW_004516418.1	Scaffold1131	118041	TT	CC	1946997016
SNP_P4_154727_131239	NW_004516418.1	Scaffold1131	131239	CC	GG	1946997018
SNP_P4_154728_144206	NW_004516418.1	Scaffold1131	144206	GG	TT	1946997020
SNP_P4_154730_789	NW_004516419.1	Scaffold1132	789	GG	AA	1946997022
SNP_P4_154731_49438	NW_004516419.1	Scaffold1132	49438	AA	GG	1946997024
SNP_P4_154732_49485	NW_004516419.1	Scaffold1132	49485	TT	CC	1946997026
SNP_P4_154733_49522	NW_004516419.1	Scaffold1132	49522	AA	GG	1946997028
SNP_P4_154734_51509	NW_004516419.1	Scaffold1132	51509	TT	GG	1946997030
SNP_P4_154735_51510	NW_004516419.1	Scaffold1132	51510	GG	CC	1946997032
SNP_P4_154736_51515	NW_004516419.1	Scaffold1132	51515	GG	AA	1946997034
SNP_P4_154737_1632	NW_004516420.1	Scaffold1133	1632	CC	GG	1946997036
SNP_P4_154738_1666	NW_004516420.1	Scaffold1133	1666	TT	CC	1946997038
SNP_P4_154739_18462	NW_004516420.1	Scaffold1133	18462	TT	CC	1946997041
SNP_P4_154740_18516	NW_004516420.1	Scaffold1133	18516	CC	GG	1946997043
SNP_P4_154741_18551	NW_004516420.1	Scaffold1133	18551	TT	CC	1946997045
SNP_P4_154742_18758	NW_004516420.1	Scaffold1133	18758	CC	TT	1946997047
SNP_P4_154743_18845	NW_004516420.1	Scaffold1133	18845	CC	TT	1946997049
SNP_P4_154744_18860	NW_004516420.1	Scaffold1133	18860	GG	TT	1946997051
SNP_P4_154745_18897	NW_004516420.1	Scaffold1133	18897	TT	GG	1946997053
SNP_P4_154746_18904	NW_004516420.1	Scaffold1133	18904	GG	AA	1946997055
SNP_P4_154747_19126	NW_004516420.1	Scaffold1133	19126	CC	AA	1946997057
SNP_P4_154748_30091	NW_004516420.1	Scaffold1133	30091	GG	AA	1946997059
SNP_P4_154749_31830	NW_004516420.1	Scaffold1133	31830	TT	AA	1946997061
SNP_P4_154750_42067	NW_004516420.1	Scaffold1133	42067	CC	AA	1946997063
SNP_P4_154751_46801	NW_004516420.1	Scaffold1133	46801	CC	GG	1946997065
SNP_P4_154752_53101	NW_004516420.1	Scaffold1133	53101	CC	TT	1946997067
SNP_P4_154753_53122	NW_004516420.1	Scaffold1133	53122	CC	TT	1946997069
SNP_P4_154754_53131	NW_004516420.1	Scaffold1133	53131	AA	GG	1946997071
SNP_P4_154755_53145	NW_004516420.1	Scaffold1133	53145	GG	TT	1946997073
SNP_P4_154756_53426	NW_004516420.1	Scaffold1133	53426	CC	AA	1946997075
SNP_P4_154757_53434	NW_004516420.1	Scaffold1133	53434	CC	TT	1946997077
SNP_P4_154758_53482	NW_004516420.1	Scaffold1133	53482	CC	TT	1946997079
SNP_P4_154759_53483	NW_004516420.1	Scaffold1133	53483	TT	CC	1946997081

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_154762_54368	NW_004516420.1	Scaffold1133	54368	TT	CC	1946997087
SNP_P4_154763_57019	NW_004516420.1	Scaffold1133	57019	TT	CC	1946997089
SNP_P4_154764_57345	NW_004516420.1	Scaffold1133	57345	TT	GG	1946997091
SNP_P4_154765_58031	NW_004516420.1	Scaffold1133	58031	CC	TT	1946997093
SNP_P4_154766_59804	NW_004516420.1	Scaffold1133	59804	CC	GG	1946997095
SNP_P4_154767_349	NW_004516421.1	Scaffold1134	349	CC	GG	1946997097
SNP_P4_154768_435	NW_004516421.1	Scaffold1134	435	CC	TT	1946997099
SNP_P4_154769_7412	NW_004516421.1	Scaffold1134	7412	AA	TT	1946997100
SNP_P4_154771_7598	NW_004516421.1	Scaffold1134	7598	AA	CC	1946997102
SNP_P4_154772_13404	NW_004516421.1	Scaffold1134	13404	CC	TT	1946997104
SNP_P4_154776_938	NW_004516422.1	Scaffold1135	938	GG	AA	1946997106
SNP_P4_154777_1781	NW_004516422.1	Scaffold1135	1781	TT	CC	1946997108
SNP_P4_154778_9107	NW_004516422.1	Scaffold1135	9107	CC	TT	1946997110
SNP_P4_154779_9211	NW_004516422.1	Scaffold1135	9211	AA	GG	1946997112
SNP_P4_154781_9990	NW_004516422.1	Scaffold1135	9990	GG	AA	1946997114
SNP_P4_154782_10345	NW_004516422.1	Scaffold1135	10345	GG	AA	1946997116
SNP_P4_154783_10597	NW_004516422.1	Scaffold1135	10597	GG	AA	1946997118
SNP_P4_154784_10601	NW_004516422.1	Scaffold1135	10601	TT	CC	1946997120
SNP_P4_154785_10955	NW_004516422.1	Scaffold1135	10955	GG	AA	1946997122
SNP_P4_154786_11584	NW_004516422.1	Scaffold1135	11584	TT	CC	1946997124
SNP_P4_154787_11589	NW_004516422.1	Scaffold1135	11589	GG	TT	1946997126
SNP_P4_154788_12417	NW_004516422.1	Scaffold1135	12417	GG	AA	1946997128
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SNP_P4_154791_13153	NW_004516422.1	Scaffold1135	13153	CC	TT	1946997134
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SNP_P4_154793_13911	NW_004516422.1	Scaffold1135	13911	GG	AA	1946997138
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SNP_P4_154796_14650	NW_004516422.1	Scaffold1135	14650	GG	AA	1946997142
SNP_P4_154797_14696	NW_004516422.1	Scaffold1135	14696	TT	CC	1946997144
SNP_P4_154798_15078	NW_004516422.1	Scaffold1135	15078	CC	TT	1946997146
SNP_P4_154799_15802	NW_004516422.1	Scaffold1135	15802	AA	CC	1946997148
SNP_P4_154800_15914	NW_004516422.1	Scaffold1135	15914	AA	GG	1946997150
SNP_P4_154801_16844	NW_004516422.1	Scaffold1135	16844	TT	AA	1946997152
SNP_P4_154802_17124	NW_004516422.1	Scaffold1135	17124	GG	AA	1946997154
SNP_P4_154803_17580	NW_004516422.1	Scaffold1135	17580	TT	CC	1946997156
SNP_P4_154804_18052	NW_004516422.1	Scaffold1135	18052	CC	TT	1946997158
SNP_P4_154805_18276	NW_004516422.1	Scaffold1135	18276	TT	AA	1946997160
SNP_P4_154806_18277	NW_004516422.1	Scaffold1135	18277	TT	CC	1946997162
SNP_P4_154807_18278	NW_004516422.1	Scaffold1135	18278	AA	TT	1946997164

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_154809_32437	NW_004516422.1	Scaffold1135	32437	CC	TT	1946997168
SNP_P4_154810_32585	NW_004516422.1	Scaffold1135	32585	AA	GG	1946997170
SNP_P4_154811_32596	NW_004516422.1	Scaffold1135	32596	TT	AA	1946997172
SNP_P4_154813_60832	NW_004516422.1	Scaffold1135	60832	GG	TT	1946997174
SNP_P4_154814_60849	NW_004516422.1	Scaffold1135	60849	TT	CC	1946997176
SNP_P4_154815_60890	NW_004516422.1	Scaffold1135	60890	GG	AA	1946997178
SNP_P4_154816_60896	NW_004516422.1	Scaffold1135	60896	CC	TT	1946997180
SNP_P4_154817_60950	NW_004516422.1	Scaffold1135	60950	TT	GG	1946997182
SNP_P4_154818_60968	NW_004516422.1	Scaffold1135	60968	TT	AA	1946997184
SNP_P4_154819_61262	NW_004516422.1	Scaffold1135	61262	AA	TT	1946997186
SNP_P4_154820_61263	NW_004516422.1	Scaffold1135	61263	AA	GG	1946997188
SNP_P4_154821_61274	NW_004516422.1	Scaffold1135	61274	TT	CC	1946997190
SNP_P4_154824_68793	NW_004516422.1	Scaffold1135	68793	CC	TT	1946997192
SNP_P4_154826_71395	NW_004516422.1	Scaffold1135	71395	GG	CC	1946997194
SNP_P4_154827_71396	NW_004516422.1	Scaffold1135	71396	TT	CC	1946997196
SNP_P4_154828_71572	NW_004516422.1	Scaffold1135	71572	GG	AA	1946997198
SNP_P4_154829_71593	NW_004516422.1	Scaffold1135	71593	AA	CC	1946997200
SNP_P4_154830_71878	NW_004516422.1	Scaffold1135	71878	TT	GG	1946997202
SNP_P4_154831_71892	NW_004516422.1	Scaffold1135	71892	GG	TT	1946997204
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SNP_P4_154842_75514	NW_004516422.1	Scaffold1135	75514	CC	AA	1946997222
SNP_P4_154844_806	NW_004516425.1	Scaffold1139	806	AA	CC	1946997224
SNP_P4_154845_817	NW_004516425.1	Scaffold1139	817	TT	CC	1946997226
SNP_P4_154846_842	NW_004516425.1	Scaffold1139	842	AA	GG	1946997228
SNP_P4_154847_874	NW_004516425.1	Scaffold1139	874	GG	TT	1946997230
SNP_P4_154848_886	NW_004516425.1	Scaffold1139	886	TT	CC	1946997232
SNP_P4_154849_939	NW_004516425.1	Scaffold1139	939	GG	AA	1946997234
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SNP_P4_154851_1117	NW_004516425.1	Scaffold1139	1117	CC	AA	1946997238
SNP_P4_154852_1234	NW_004516425.1	Scaffold1139	1234	CC	AA	1946997240
SNP_P4_154853_1235	NW_004516425.1	Scaffold1139	1235	AA	GG	1946997242
SNP_P4_154854_1253	NW_004516425.1	Scaffold1139	1253	AA	GG	1946997244
SNP_P4_154856_1359	NW_004516425.1	Scaffold1139	1359	CC	AA	1946997246
SNP_P4_154858_1409	NW_004516425.1	Scaffold1139	1409	TT	AA	1946997248

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_154862_1764	NW_004516425.1	Scaffold1139	1764	AA	GG	1946997254
SNP_P4_154863_1813	NW_004516425.1	Scaffold1139	1813	GG	CC	1946997256
SNP_P4_154864_1828	NW_004516425.1	Scaffold1139	1828	CC	TT	1946997258
SNP_P4_154865_1845	NW_004516425.1	Scaffold1139	1845	TT	GG	1946997260
SNP_P4_154866_1884	NW_004516425.1	Scaffold1139	1884	GG	CC	1946997262
SNP_P4_154867_1892	NW_004516425.1	Scaffold1139	1892	TT	CC	1946997264
SNP_P4_154868_1926	NW_004516425.1	Scaffold1139	1926	CC	TT	1946997266
SNP_P4_154869_1970	NW_004516425.1	Scaffold1139	1970	AA	GG	1946997268
SNP_P4_154870_1990	NW_004516425.1	Scaffold1139	1990	CC	TT	1946997270
SNP_P4_154871_2019	NW_004516425.1	Scaffold1139	2019	TT	CC	1946997272
SNP_P4_154873_6102	NW_004516427.1	Scaffold1142	6102	GG	AA	1946997274
SNP_P4_154874_9660	NW_004516427.1	Scaffold1142	9660	AA	GG	1946997276
SNP_P4_154875_18484	NW_004516427.1	Scaffold1142	18484	TT	AA	1946997278
SNP_P4_154876_18857	NW_004516427.1	Scaffold1142	18857	GG	AA	1946997280
SNP_P4_154877_18878	NW_004516427.1	Scaffold1142	18878	TT	CC	1946997282
SNP_P4_154878_48250	NW_004516427.1	Scaffold1142	48250	TT	CC	1946997284
SNP_P4_154879_2152	NW_004516429.1	Scaffold1145	2152	TT	CC	1946997286
SNP_P4_154880_2232	NW_004516429.1	Scaffold1145	2232	AA	GG	1946997288
SNP_P4_154882_2368	NW_004516429.1	Scaffold1145	2368	TT	CC	1946997290
SNP_P4_154883_2422	NW_004516429.1	Scaffold1145	2422	TT	GG	1946997292
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SNP_P4_154885_2535	NW_004516429.1	Scaffold1145	2535	TT	CC	1946997296
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SNP_P4_154888_2709	NW_004516429.1	Scaffold1145	2709	TT	CC	1946997300
SNP_P4_154889_2719	NW_004516429.1	Scaffold1145	2719	AA	GG	1946997302
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SNP_P4_154896_4286	NW_004516429.1	Scaffold1145	4286	TT	GG	1946997311
SNP_P4_154897_4320	NW_004516429.1	Scaffold1145	4320	GG	CC	1946997313
SNP_P4_154898_6855	NW_004516429.1	Scaffold1145	6855	CC	TT	1946997315
SNP_P4_154899_7444	NW_004516429.1	Scaffold1145	7444	TT	CC	1946997317
SNP_P4_154900_7446	NW_004516429.1	Scaffold1145	7446	TT	GG	1946997319
SNP_P4_154901_13924	NW_004516429.1	Scaffold1145	13924	CC	TT	1946997321
SNP_P4_154902_14008	NW_004516429.1	Scaffold1145	14008	GG	CC	1946997322
SNP_P4_154903_15698	NW_004516429.1	Scaffold1145	15698	AA	GG	1946997324
SNP_P4_154904_15711	NW_004516429.1	Scaffold1145	15711	CC	TT	1946997326
SNP_P4_154905_15712	NW_004516429.1	Scaffold1145	15712	AA	TT	1946997328
SNP_P4_154907_16045	NW_004516429.1	Scaffold1145	16045	CC	GG	1946997330

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_154908_16115	NW_004516429.1	Scaffold1145	16115	AA	TT	1946997332
SNP_P4_154909_16240	NW_004516429.1	Scaffold1145	16240	AA	TT	1946997334
SNP_P4_154910_16252	NW_004516429.1	Scaffold1145	16252	TT	CC	1946997336
SNP_P4_154912_16290	NW_004516429.1	Scaffold1145	16290	TT	AA	1946997338
SNP_P4_154913_16393	NW_004516429.1	Scaffold1145	16393	AA	TT	1946997340
SNP_P4_154914_16413	NW_004516429.1	Scaffold1145	16413	AA	TT	1946997342
SNP_P4_154915_16510	NW_004516429.1	Scaffold1145	16510	CC	TT	1946997344
SNP_P4_154916_16523	NW_004516429.1	Scaffold1145	16523	CC	TT	1946997346
SNP_P4_154917_16534	NW_004516429.1	Scaffold1145	16534	AA	CC	1946997348
SNP_P4_154918_16573	NW_004516429.1	Scaffold1145	16573	CC	TT	1946997350
SNP_P4_154919_16576	NW_004516429.1	Scaffold1145	16576	CC	TT	1946997352
SNP_P4_154920_16597	NW_004516429.1	Scaffold1145	16597	AA	GG	1946997354
SNP_P4_154922_16799	NW_004516429.1	Scaffold1145	16799	GG	TT	1946997356
SNP_P4_154923_16806	NW_004516429.1	Scaffold1145	16806	GG	AA	1946997358
SNP_P4_154924_17143	NW_004516429.1	Scaffold1145	17143	AA	GG	1946997359
SNP_P4_154925_26375	NW_004516429.1	Scaffold1145	26375	GG	AA	1946997361
SNP_P4_154926_26522	NW_004516429.1	Scaffold1145	26522	CC	TT	1946997363
SNP_P4_154927_26849	NW_004516429.1	Scaffold1145	26849	AA	GG	1946997365
SNP_P4_154929_26911	NW_004516429.1	Scaffold1145	26911	AA	GG	1946997367
SNP_P4_154930_31589	NW_004516429.1	Scaffold1145	31589	TT	AA	1946997369
SNP_P4_154931_31620	NW_004516429.1	Scaffold1145	31620	AA	CC	1946997371
SNP_P4_154932_39729	NW_004516429.1	Scaffold1145	39729	GG	AA	1946997373
SNP_P4_154933_60274	NW_004516429.1	Scaffold1145	60274	AA	TT	1946997375
SNP_P4_154934_81439	NW_004516429.1	Scaffold1145	81439	TT	CC	1946997377
SNP_P4_154935_81655	NW_004516429.1	Scaffold1145	81655	CC	TT	1946997379
SNP_P4_154936_81805	NW_004516429.1	Scaffold1145	81805	AA	GG	1946997381
SNP_P4_154937_90660	NW_004516429.1	Scaffold1145	90660	TT	CC	1946997383
SNP_P4_154938_100412	NW_004516429.1	Scaffold1145	100412	AA	CC	1946997385
SNP_P4_154939_100414	NW_004516429.1	Scaffold1145	100414	GG	AA	1946997387
SNP_P4_154940_100492	NW_004516429.1	Scaffold1145	100492	AA	GG	1946997389
SNP_P4_154941_100493	NW_004516429.1	Scaffold1145	100493	AA	CC	1946997391
SNP_P4_154942_100522	NW_004516429.1	Scaffold1145	100522	GG	AA	1946997393
SNP_P4_154943_100544	NW_004516429.1	Scaffold1145	100544	AA	CC	1946997395
SNP_P4_154944_8431	NW_004516430.1	Scaffold1147	8431	TT	AA	1946997396
SNP_P4_154945_28118	NW_004516430.1	Scaffold1147	28118	AA	GG	1946997398
SNP_P4_154946_34001	NW_004516430.1	Scaffold1147	34001	GG	CC	1946997400
SNP_P4_154947_34099	NW_004516430.1	Scaffold1147	34099	TT	AA	1946997402
SNP_P4_154948_1153	NW_004516431.1	Scaffold1148	1153	CC	AA	1946997404
SNP_P4_154949_496	NW_004516433.1	Scaffold1150	496	TT	CC	1946997406
SNP_P4_154950_516	NW_004516433.1	Scaffold1150	516	GG	CC	1946997408
SNP_P4_154951_796	NW_004516433.1	Scaffold1150	796	CC	TT	1946997410
SNP_P4_154952_849	NW_004516433.1	Scaffold1150	849	CC	AA	1946997412

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_154954_1039	NW_004516433.1	Scaffold1150	1039	TT	GG	1946997416
SNP_P4_154955_1169	NW_004516433.1	Scaffold1150	1169	AA	CC	1946997418
SNP_P4_154956_1195	NW_004516433.1	Scaffold1150	1195	AA	GG	1946997420
SNP_P4_154957_1236	NW_004516433.1	Scaffold1150	1236	TT	CC	1946997422
SNP_P4_154958_18772	NW_004516434.1	Scaffold1151	18772	TT	AA	1946997424
SNP_P4_154960_18896	NW_004516434.1	Scaffold1151	18896	GG	CC	1946997426
SNP_P4_154961_19827	NW_004516434.1	Scaffold1151	19827	AA	TT	1946997428
SNP_P4_154962_19855	NW_004516434.1	Scaffold1151	19855	CC	TT	1946997430
SNP_P4_154963_20255	NW_004516434.1	Scaffold1151	20255	TT	CC	1946997432
SNP_P4_154964_20269	NW_004516434.1	Scaffold1151	20269	TT	GG	1946997434
SNP_P4_154965_20307	NW_004516434.1	Scaffold1151	20307	TT	GG	1946997436
SNP_P4_154966_20360	NW_004516434.1	Scaffold1151	20360	CC	AA	1946997438
SNP_P4_154967_27784	NW_004516434.1	Scaffold1151	27784	TT	AA	1946997440
SNP_P4_154968_29091	NW_004516434.1	Scaffold1151	29091	TT	CC	1946997442
SNP_P4_154969_29561	NW_004516434.1	Scaffold1151	29561	GG	CC	1946997444
SNP_P4_154970_59756	NW_004516434.1	Scaffold1151	59756	AA	GG	1946997446
SNP_P4_154971_59786	NW_004516434.1	Scaffold1151	59786	GG	AA	1946997448
SNP_P4_154972_119328	NW_004516434.1	Scaffold1151	119328	AA	GG	1946997450
SNP_P4_154973_119357	NW_004516434.1	Scaffold1151	119357	CC	TT	1946997452
SNP_P4_154974_119412	NW_004516434.1	Scaffold1151	119412	TT	CC	1946997454
SNP_P4_154975_119653	NW_004516434.1	Scaffold1151	119653	CC	TT	1946997456
SNP_P4_154976_119710	NW_004516434.1	Scaffold1151	119710	TT	CC	1946997458
SNP_P4_154977_119758	NW_004516434.1	Scaffold1151	119758	AA	TT	1946997460
SNP_P4_154978_152336	NW_004516434.1	Scaffold1151	152336	AA	GG	1946997462
SNP_P4_154979_161631	NW_004516434.1	Scaffold1151	161631	CC	TT	1946997464
SNP_P4_154980_175548	NW_004516434.1	Scaffold1151	175548	GG	AA	1946997466
SNP_P4_154981_175577	NW_004516434.1	Scaffold1151	175577	GG	TT	1946997468
SNP_P4_154983_225617	NW_004516434.1	Scaffold1151	225617	AA	GG	1946997470
SNP_P4_154984_240411	NW_004516434.1	Scaffold1151	240411	TT	CC	1946997472
SNP_P4_154985_279729	NW_004516434.1	Scaffold1151	279729	AA	CC	1946997474
SNP_P4_154986_279737	NW_004516434.1	Scaffold1151	279737	GG	TT	1946997476
SNP_P4_154987_279759	NW_004516434.1	Scaffold1151	279759	AA	GG	1946997478
SNP_P4_154988_279777	NW_004516434.1	Scaffold1151	279777	AA	CC	1946997480
SNP_P4_154989_279783	NW_004516434.1	Scaffold1151	279783	CC	GG	1946997482
SNP_P4_154990_279866	NW_004516434.1	Scaffold1151	279866	CC	AA	1946997484
SNP_P4_154991_279877	NW_004516434.1	Scaffold1151	279877	AA	GG	1946997486
SNP_P4_154992_279888	NW_004516434.1	Scaffold1151	279888	GG	AA	1946997488
SNP_P4_154993_279896	NW_004516434.1	Scaffold1151	279896	AA	TT	1946997490
SNP_P4_154994_279904	NW_004516434.1	Scaffold1151	279904	AA	GG	1946997492
SNP_P4_154995_279919	NW_004516434.1	Scaffold1151	279919	CC	TT	1946997494
SNP_P4_154996_279931	NW_004516434.1	Scaffold1151	279931	AA	CC	1946997496

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_154998_280116	NW_004516434.1	Scaffold1151	280116	AA	GG	1946997500
SNP_P4_154999_280162	NW_004516434.1	Scaffold1151	280162	GG	AA	1946997502
SNP_P4_155000_280163	NW_004516434.1	Scaffold1151	280163	GG	AA	1946997504
SNP_P4_155001_280239	NW_004516434.1	Scaffold1151	280239	TT	CC	1946997506
SNP_P4_155002_280335	NW_004516434.1	Scaffold1151	280335	TT	GG	1946997508
SNP_P4_155003_280370	NW_004516434.1	Scaffold1151	280370	GG	CC	1946997510
SNP_P4_155004_281008	NW_004516434.1	Scaffold1151	281008	AA	GG	1946997512
SNP_P4_155005_281023	NW_004516434.1	Scaffold1151	281023	AA	TT	1946997514
SNP_P4_155006_281043	NW_004516434.1	Scaffold1151	281043	CC	AA	1946997516
SNP_P4_155007_281054	NW_004516434.1	Scaffold1151	281054	TT	CC	1946997518
SNP_P4_155008_281259	NW_004516434.1	Scaffold1151	281259	TT	CC	1946997520
SNP_P4_155011_9866	NW_004516435.1	Scaffold1152	9866	TT	GG	1946997522
SNP_P4_155012_13318	NW_004516435.1	Scaffold1152	13318	TT	CC	1946997524
SNP_P4_155013_13628	NW_004516435.1	Scaffold1152	13628	GG	TT	1946997526
SNP_P4_155014_14181	NW_004516435.1	Scaffold1152	14181	AA	GG	1946997528
SNP_P4_155015_32629	NW_004516435.1	Scaffold1152	32629	AA	GG	1946997530
SNP_P4_155016_32653	NW_004516435.1	Scaffold1152	32653	CC	TT	1946997532
SNP_P4_155017_32654	NW_004516435.1	Scaffold1152	32654	AA	TT	1946997534
SNP_P4_155018_32779	NW_004516435.1	Scaffold1152	32779	TT	CC	1946997536
SNP_P4_155019_32798	NW_004516435.1	Scaffold1152	32798	GG	AA	1946997538
SNP_P4_155020_32814	NW_004516435.1	Scaffold1152	32814	AA	TT	1946997540
SNP_P4_155021_32835	NW_004516435.1	Scaffold1152	32835	AA	CC	1946997542
SNP_P4_155022_33129	NW_004516435.1	Scaffold1152	33129	AA	GG	1946997544
SNP_P4_155023_33171	NW_004516435.1	Scaffold1152	33171	TT	CC	1946997546
SNP_P4_155024_33172	NW_004516435.1	Scaffold1152	33172	GG	AA	1946997548
SNP_P4_155025_33173	NW_004516435.1	Scaffold1152	33173	TT	CC	1946997550
SNP_P4_155026_36519	NW_004516435.1	Scaffold1152	36519	AA	GG	1946997552
SNP_P4_155027_45946	NW_004516435.1	Scaffold1152	45946	TT	GG	1946997554
SNP_P4_155028_46314	NW_004516435.1	Scaffold1152	46314	GG	CC	1946997556
SNP_P4_155029_70651	NW_004516435.1	Scaffold1152	70651	TT	AA	1946997558
SNP_P4_155030_77695	NW_004516435.1	Scaffold1152	77695	TT	CC	1946997560
SNP_P4_155032_77946	NW_004516435.1	Scaffold1152	77946	CC	TT	1946997562
SNP_P4_155033_78565	NW_004516435.1	Scaffold1152	78565	GG	AA	1946997564
SNP_P4_155034_78824	NW_004516435.1	Scaffold1152	78824	TT	CC	1946997566
SNP_P4_155035_92851	NW_004516435.1	Scaffold1152	92851	AA	TT	1946997568
SNP_P4_155036_92886	NW_004516435.1	Scaffold1152	92886	AA	CC	1946997570
SNP_P4_155037_92897	NW_004516435.1	Scaffold1152	92897	TT	GG	1946997572
SNP_P4_155038_92947	NW_004516435.1	Scaffold1152	92947	AA	CC	1946997574
SNP_P4_155039_93352	NW_004516435.1	Scaffold1152	93352	GG	AA	1946997576
SNP_P4_155040_93366	NW_004516435.1	Scaffold1152	93366	GG	AA	1946997578
SNP_P4_155041_93371	NW_004516435.1	Scaffold1152	93371	TT	CC	1946997580

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_155043_115173	NW_004516435.1	Scaffold1152	115173	TT	GG	1946997584
SNP_P4_155044_115183	NW_004516435.1	Scaffold1152	115183	AA	TT	1946997586
SNP_P4_155045_115229	NW_004516435.1	Scaffold1152	115229	TT	AA	1946997588
SNP_P4_155046_115432	NW_004516435.1	Scaffold1152	115432	GG	AA	1946997590
SNP_P4_155047_115440	NW_004516435.1	Scaffold1152	115440	GG	CC	1946997592
SNP_P4_155048_115510	NW_004516435.1	Scaffold1152	115510	GG	AA	1946997594
SNP_P4_155049_115521	NW_004516435.1	Scaffold1152	115521	AA	GG	1946997596
SNP_P4_155051_119150	NW_004516435.1	Scaffold1152	119150	AA	CC	1946997598
SNP_P4_155052_121100	NW_004516435.1	Scaffold1152	121100	CC	GG	1946997600
SNP_P4_155053_134970	NW_004516435.1	Scaffold1152	134970	CC	TT	1946997602
SNP_P4_155054_145822	NW_004516435.1	Scaffold1152	145822	CC	AA	1946997604
SNP_P4_155055_20140	NW_004516436.1	Scaffold1153	20140	CC	AA	1946997606
SNP_P4_155057_26825	NW_004516436.1	Scaffold1153	26825	TT	CC	1946997608
SNP_P4_155058_26826	NW_004516436.1	Scaffold1153	26826	TT	CC	1946997610
SNP_P4_155059_42188	NW_004516436.1	Scaffold1153	42188	GG	AA	1946997612
SNP_P4_155060_42194	NW_004516436.1	Scaffold1153	42194	TT	AA	1946997614
SNP_P4_155061_42198	NW_004516436.1	Scaffold1153	42198	TT	CC	1946997616
SNP_P4_155062_42215	NW_004516436.1	Scaffold1153	42215	CC	GG	1946997618
SNP_P4_155063_42217	NW_004516436.1	Scaffold1153	42217	TT	GG	1946997620
SNP_P4_155065_46191	NW_004516436.1	Scaffold1153	46191	TT	AA	1946997622
SNP_P4_155066_108713	NW_004516436.1	Scaffold1153	108713	AA	GG	1946997624
SNP_P4_155067_108840	NW_004516436.1	Scaffold1153	108840	AA	GG	1946997626
SNP_P4_155068_108853	NW_004516436.1	Scaffold1153	108853	CC	TT	1946997628
SNP_P4_155069_118121	NW_004516436.1	Scaffold1153	118121	GG	TT	1946997630
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SNP_P4_155074_186	NW_004516439.1	Scaffold1156	186	TT	GG	1946997640
SNP_P4_155075_413	NW_004516439.1	Scaffold1156	413	TT	AA	1946997642
SNP_P4_155076_507	NW_004516439.1	Scaffold1156	507	TT	CC	1946997644
SNP_P4_155077_628	NW_004516439.1	Scaffold1156	628	TT	CC	1946997646
SNP_P4_155078_650	NW_004516439.1	Scaffold1156	650	CC	AA	1946997648
SNP_P4_155079_1061	NW_004516439.1	Scaffold1156	1061	GG	CC	1946997650
SNP_P4_155080_1649	NW_004516439.1	Scaffold1156	1649	AA	GG	1946997652
SNP_P4_155081_2679	NW_004516439.1	Scaffold1156	2679	AA	CC	1946997654
SNP_P4_155082_2901	NW_004516439.1	Scaffold1156	2901	AA	CC	1946997656
SNP_P4_155083_2960	NW_004516439.1	Scaffold1156	2960	GG	CC	1946997658
SNP_P4_155084_3022	NW_004516439.1	Scaffold1156	3022	GG	TT	1946997660
SNP_P4_155085_3023	NW_004516439.1	Scaffold1156	3023	TT	AA	1946997662
SNP_P4_155086_3051	NW_004516439.1	Scaffold1156	3051	AA	GG	1946997664

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_155089_3291	NW_004516439.1	Scaffold1156	3291	CC	TT	1946997670
SNP_P4_155090_3353	NW_004516439.1	Scaffold1156	3353	CC	TT	1946997672
SNP_P4_155091_3354	NW_004516439.1	Scaffold1156	3354	TT	CC	1946997674
SNP_P4_155092_3365	NW_004516439.1	Scaffold1156	3365	AA	TT	1946997676
SNP_P4_155094_120	NW_004516441.1	Scaffold1158	120	CC	TT	1946997678
SNP_P4_155095_186	NW_004516441.1	Scaffold1158	186	TT	GG	1946997680
SNP_P4_155096_199	NW_004516441.1	Scaffold1158	199	CC	TT	1946997682
SNP_P4_155097_231	NW_004516441.1	Scaffold1158	231	TT	CC	1946997684
SNP_P4_155098_253	NW_004516441.1	Scaffold1158	253	TT	AA	1946997686
SNP_P4_155099_273	NW_004516441.1	Scaffold1158	273	AA	CC	1946997688
SNP_P4_155100_289	NW_004516441.1	Scaffold1158	289	AA	CC	1946997690
SNP_P4_155101_291	NW_004516441.1	Scaffold1158	291	GG	TT	1946997692
SNP_P4_155102_347	NW_004516441.1	Scaffold1158	347	GG	AA	1946997694
SNP_P4_155103_446	NW_004516441.1	Scaffold1158	446	GG	AA	1946997696
SNP_P4_155104_5250	NW_004516441.1	Scaffold1158	5250	CC	TT	1946997698
SNP_P4_155105_5274	NW_004516441.1	Scaffold1158	5274	CC	TT	1946997700
SNP_P4_155107_27488	NW_004516442.1	Scaffold1159	27488	AA	CC	1946997702
SNP_P4_155109_2631	NW_004516443.1	Scaffold1161	2631	GG	TT	1946997704
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SNP_P4_155111_11758	NW_004516443.1	Scaffold1161	11758	TT	AA	1946997708
SNP_P4_155112_12326	NW_004516443.1	Scaffold1161	12326	AA	GG	1946997710
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SNP_P4_155114_12398	NW_004516443.1	Scaffold1161	12398	TT	AA	1946997714
SNP_P4_155115_12435	NW_004516443.1	Scaffold1161	12435	AA	GG	1946997716
SNP_P4_155116_12471	NW_004516443.1	Scaffold1161	12471	TT	AA	1946997718
SNP_P4_155117_12491	NW_004516443.1	Scaffold1161	12491	GG	AA	1946997720
SNP_P4_155118_12557	NW_004516443.1	Scaffold1161	12557	AA	TT	1946997722
SNP_P4_155119_12561	NW_004516443.1	Scaffold1161	12561	GG	TT	1946997724
SNP_P4_155120_12573	NW_004516443.1	Scaffold1161	12573	AA	TT	1946997726
SNP_P4_155121_12604	NW_004516443.1	Scaffold1161	12604	GG	TT	1946997729
SNP_P4_155122_12735	NW_004516443.1	Scaffold1161	12735	TT	AA	1946997731
SNP_P4_155123_12737	NW_004516443.1	Scaffold1161	12737	CC	GG	1946997733
SNP_P4_155126_12901	NW_004516443.1	Scaffold1161	12901	AA	TT	1946997735
SNP_P4_155127_12914	NW_004516443.1	Scaffold1161	12914	TT	CC	1946997737
SNP_P4_155128_12937	NW_004516443.1	Scaffold1161	12937	CC	TT	1946997739
SNP_P4_155129_12960	NW_004516443.1	Scaffold1161	12960	AA	GG	1946997741
SNP_P4_155130_13014	NW_004516443.1	Scaffold1161	13014	CC	AA	1946997743
SNP_P4_155131_13016	NW_004516443.1	Scaffold1161	13016	TT	AA	1946997745
SNP_P4_155132_980	NW_004516446.1	Scaffold1165	980	TT	GG	1946997748
SNP_P4_155133_2231	NW_004516447.1	Scaffold1166	2231	CC	TT	1946997750

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_155134_18254	NW_004516447.1	Scaffold1166	18254	CC	AA	1946997752
SNP_P4_155135_36232	NW_004516447.1	Scaffold1166	36232	AA	TT	1946997754
SNP_P4_155136_36235	NW_004516447.1	Scaffold1166	36235	TT	CC	1946997756
SNP_P4_155137_36244	NW_004516447.1	Scaffold1166	36244	TT	CC	1946997758
SNP_P4_155138_47658	NW_004516447.1	Scaffold1166	47658	AA	GG	1946997760
SNP_P4_155139_47823	NW_004516447.1	Scaffold1166	47823	AA	GG	1946997762
SNP_P4_155141_47924	NW_004516447.1	Scaffold1166	47924	CC	TT	1946997764
SNP_P4_155142_47932	NW_004516447.1	Scaffold1166	47932	AA	GG	1946997766
SNP_P4_155143_48085	NW_004516447.1	Scaffold1166	48085	CC	AA	1946997768
SNP_P4_155144_48116	NW_004516447.1	Scaffold1166	48116	AA	TT	1946997770
SNP_P4_155145_48138	NW_004516447.1	Scaffold1166	48138	GG	AA	1946997772
SNP_P4_155146_48153	NW_004516447.1	Scaffold1166	48153	GG	AA	1946997774
SNP_P4_155147_48184	NW_004516447.1	Scaffold1166	48184	TT	CC	1946997776
SNP_P4_155148_48187	NW_004516447.1	Scaffold1166	48187	TT	AA	1946997778
SNP_P4_155149_899	NW_004516450.1	Scaffold1172	899	AA	TT	1946997780
SNP_P4_155150_1064	NW_004516450.1	Scaffold1172	1064	GG	AA	1946997782
SNP_P4_155151_1241	NW_004516450.1	Scaffold1172	1241	TT	AA	1946997784
SNP_P4_155152_11951	NW_004516451.1	Scaffold1173	11951	CC	TT	1946997786
SNP_P4_155153_107	NW_004516452.1	Scaffold1174	107	GG	AA	1946997788
SNP_P4_155154_108	NW_004516452.1	Scaffold1174	108	AA	TT	1946997790
SNP_P4_155155_274	NW_004516452.1	Scaffold1174	274	CC	GG	1946997792
SNP_P4_155156_323	NW_004516452.1	Scaffold1174	323	CC	AA	1946997794
SNP_P4_155157_433	NW_004516452.1	Scaffold1174	433	TT	GG	1946997796
SNP_P4_155158_741	NW_004516452.1	Scaffold1174	741	TT	GG	1946997798
SNP_P4_155159_809	NW_004516452.1	Scaffold1174	809	TT	AA	1946997800
SNP_P4_155160_1134	NW_004516452.1	Scaffold1174	1134	GG	CC	1946997802
SNP_P4_155161_1399	NW_004516452.1	Scaffold1174	1399	TT	AA	1946997804
SNP_P4_155162_1445	NW_004516452.1	Scaffold1174	1445	CC	TT	1946997806
SNP_P4_155163_1605	NW_004516452.1	Scaffold1174	1605	CC	TT	1946997808
SNP_P4_155164_1706	NW_004516452.1	Scaffold1174	1706	CC	AA	1946997810
SNP_P4_155165_1808	NW_004516452.1	Scaffold1174	1808	AA	TT	1946997812
SNP_P4_155166_15270	NW_004516452.1	Scaffold1174	15270	GG	TT	1946997814
SNP_P4_155167_15297	NW_004516452.1	Scaffold1174	15297	AA	GG	1946997816
SNP_P4_155168_15307	NW_004516452.1	Scaffold1174	15307	GG	TT	1946997818
SNP_P4_155169_15381	NW_004516452.1	Scaffold1174	15381	GG	AA	1946997820
SNP_P4_155170_15535	NW_004516452.1	Scaffold1174	15535	TT	CC	1946997822
SNP_P4_155171_15569	NW_004516452.1	Scaffold1174	15569	TT	AA	1946997824
SNP_P4_155172_15943	NW_004516452.1	Scaffold1174	15943	AA	CC	1946997826
SNP_P4_155173_15944	NW_004516452.1	Scaffold1174	15944	AA	CC	1946997828
SNP_P4_155174_21198	NW_004516452.1	Scaffold1174	21198	TT	CC	1946997830
SNP_P4_155175_22913	NW_004516452.1	Scaffold1174	22913	GG	AA	1946997832
SNP_P4_155176_23064	NW_004516452.1	Scaffold1174	23064	AA	GG	1946997834

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_155179_493	NW_004516453.1	Scaffold1175	493	AA	GG	1946997838
SNP_P4_155180_714	NW_004516453.1	Scaffold1175	714	AA	GG	1946997840
SNP_P4_155181_721	NW_004516453.1	Scaffold1175	721	AA	GG	1946997842
SNP_P4_155182_802	NW_004516453.1	Scaffold1175	802	TT	CC	1946997844
SNP_P4_155183_867	NW_004516453.1	Scaffold1175	867	TT	CC	1946997846
SNP_P4_155184_3465	NW_004516453.1	Scaffold1175	3465	CC	GG	1946997848
SNP_P4_155185_3530	NW_004516453.1	Scaffold1175	3530	AA	TT	1946997850
SNP_P4_155186_3532	NW_004516453.1	Scaffold1175	3532	CC	TT	1946997852
SNP_P4_155187_3558	NW_004516453.1	Scaffold1175	3558	CC	TT	1946997854
SNP_P4_155188_8375	NW_004516453.1	Scaffold1175	8375	TT	AA	1946997856
SNP_P4_155189_30992	NW_004516454.1	Scaffold1176_2	30992	TT	AA	1946997858
SNP_P4_155190_33161	NW_004516454.1	Scaffold1176_2	33161	GG	CC	1946997860
SNP_P4_155191_37110	NW_004516454.1	Scaffold1176_2	37110	TT	GG	1946997862
SNP_P4_155192_37121	NW_004516454.1	Scaffold1176_2	37121	TT	CC	1946997864
SNP_P4_155193_57713	NW_004516454.1	Scaffold1176_2	57713	AA	GG	1946997866
SNP_P4_155194_58173	NW_004516454.1	Scaffold1176_2	58173	AA	TT	1946997868
SNP_P4_155195_58190	NW_004516454.1	Scaffold1176_2	58190	CC	TT	1946997870
SNP_P4_155196_58219	NW_004516454.1	Scaffold1176_2	58219	CC	TT	1946997872
SNP_P4_155197_58302	NW_004516454.1	Scaffold1176_2	58302	CC	TT	1946997874
SNP_P4_155198_102497	NW_004516454.1	Scaffold1176_2	102497	AA	TT	1946997876
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SNP_P4_155200_102499	NW_004516454.1	Scaffold1176_2	102499	AA	TT	1946997880
SNP_P4_155201_128790	NW_004516454.1	Scaffold1176_2	128790	AA	CC	1946997882
SNP_P4_155202_128793	NW_004516454.1	Scaffold1176_2	128793	TT	GG	1946997884
SNP_P4_155203_158306	NW_004516454.1	Scaffold1176_2	158306	GG	TT	1946997886
SNP_P4_155204_185893	NW_004516454.1	Scaffold1176_2	185893	AA	CC	1946997888
SNP_P4_155205_185899	NW_004516454.1	Scaffold1176_2	185899	CC	TT	1946997890
SNP_P4_155206_185903	NW_004516454.1	Scaffold1176_2	185903	TT	AA	1946997892
SNP_P4_155209_196313	NW_004516454.1	Scaffold1176_2	196313	AA	CC	1946997894
SNP_P4_155210_196314	NW_004516454.1	Scaffold1176_2	196314	AA	GG	1946997896
SNP_P4_155211_196334	NW_004516454.1	Scaffold1176_2	196334	CC	AA	1946997898
SNP_P4_155212_196383	NW_004516454.1	Scaffold1176_2	196383	AA	GG	1946997900
SNP_P4_155213_196468	NW_004516454.1	Scaffold1176_2	196468	GG	AA	1946997903
SNP_P4_155214_196506	NW_004516454.1	Scaffold1176_2	196506	CC	AA	1946997905
SNP_P4_155215_196623	NW_004516454.1	Scaffold1176_2	196623	TT	CC	1946997907
SNP_P4_155216_196655	NW_004516454.1	Scaffold1176_2	196655	TT	CC	1946997909
SNP_P4_155217_196708	NW_004516454.1	Scaffold1176_2	196708	TT	AA	1946997911
SNP_P4_155218_227395	NW_004516454.1	Scaffold1176_2	227395	AA	TT	1946997913
SNP_P4_155219_237547	NW_004516454.1	Scaffold1176_2	237547	GG	AA	1946997915
SNP_P4_155220_237769	NW_004516454.1	Scaffold1176_2	237769	CC	TT	1946997917
SNP_P4_155221_237770	NW_004516454.1	Scaffold1176_2	237770	GG	TT	1946997919

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_155223_237818	NW_004516454.1	Scaffold1176_2	237818	AA	GG	1946997923
SNP_P4_155224_238246	NW_004516454.1	Scaffold1176_2	238246	GG	AA	1946997925
SNP_P4_155225_238257	NW_004516454.1	Scaffold1176_2	238257	AA	GG	1946997927
SNP_P4_155226_238266	NW_004516454.1	Scaffold1176_2	238266	TT	CC	1946997929
SNP_P4_155227_238268	NW_004516454.1	Scaffold1176_2	238268	CC	TT	1946997931
SNP_P4_155228_238525	NW_004516454.1	Scaffold1176_2	238525	GG	AA	1946997933
SNP_P4_155230_238592	NW_004516454.1	Scaffold1176_2	238592	GG	CC	1946997935
SNP_P4_155231_238889	NW_004516454.1	Scaffold1176_2	238889	CC	GG	1946997937
SNP_P4_155232_238926	NW_004516454.1	Scaffold1176_2	238926	CC	TT	1946997939
SNP_P4_155233_250522	NW_004516454.1	Scaffold1176_2	250522	AA	GG	1946997941
SNP_P4_155234_259871	NW_004516454.1	Scaffold1176_2	259871	AA	GG	1946997943
SNP_P4_155235_271480	NW_004516454.1	Scaffold1176_2	271480	CC	TT	1946997945
SNP_P4_155236_271505	NW_004516454.1	Scaffold1176_2	271505	AA	GG	1946997947
SNP_P4_155237_274488	NW_004516454.1	Scaffold1176_2	274488	TT	AA	1946997949
SNP_P4_155238_286710	NW_004516454.1	Scaffold1176_2	286710	AA	CC	1946997951
SNP_P4_155239_290779	NW_004516454.1	Scaffold1176_2	290779	TT	GG	1946997953
SNP_P4_155240_290780	NW_004516454.1	Scaffold1176_2	290780	AA	TT	1946997955
SNP_P4_155241_304697	NW_004516454.1	Scaffold1176_2	304697	CC	AA	1946997957
SNP_P4_155242_320294	NW_004516454.1	Scaffold1176_2	320294	AA	GG	1946997959
SNP_P4_155243_347462	NW_004516454.1	Scaffold1176_2	347462	TT	CC	1946997961
SNP_P4_155244_347903	NW_004516454.1	Scaffold1176_2	347903	TT	CC	1946997963
SNP_P4_155245_347908	NW_004516454.1	Scaffold1176_2	347908	CC	TT	1946997965
SNP_P4_155246_363293	NW_004516454.1	Scaffold1176_2	363293	CC	GG	1946997967
SNP_P4_155247_363302	NW_004516454.1	Scaffold1176_2	363302	TT	AA	1946997969
SNP_P4_155248_363723	NW_004516454.1	Scaffold1176_2	363723	AA	GG	1946997971
SNP_P4_155249_719	NW_004516455.1	Scaffold1177	719	AA	GG	1946997973
SNP_P4_155251_1935	NW_004516456.1	Scaffold1178	1935	TT	CC	1946997975
SNP_P4_155252_1946	NW_004516456.1	Scaffold1178	1946	CC	TT	1946997977
SNP_P4_155253_2249	NW_004516456.1	Scaffold1178	2249	CC	TT	1946997979
SNP_P4_155254_2301	NW_004516456.1	Scaffold1178	2301	AA	GG	1946997981
SNP_P4_155255_2851	NW_004516456.1	Scaffold1178	2851	CC	GG	1946997983
SNP_P4_155256_6725	NW_004516456.1	Scaffold1178	6725	TT	AA	1946997985
SNP_P4_155257_6765	NW_004516456.1	Scaffold1178	6765	AA	GG	1946997987
SNP_P4_155258_1445	NW_004516457.1	Scaffold1179	1445	TT	CC	1946997989
SNP_P4_155259_1470	NW_004516457.1	Scaffold1179	1470	TT	CC	1946997991
SNP_P4_155260_1695	NW_004516457.1	Scaffold1179	1695	TT	CC	1946997993
SNP_P4_155262_226	NW_004516458.1	Scaffold1180	226	TT	AA	1946997995
SNP_P4_155263_266	NW_004516458.1	Scaffold1180	266	TT	CC	1946997997
SNP_P4_155264_320	NW_004516458.1	Scaffold1180	320	GG	AA	1946997999
SNP_P4_155265_439	NW_004516458.1	Scaffold1180	439	GG	AA	1946998001
SNP_P4_155266_773	NW_004516458.1	Scaffold1180	773	GG	TT	1946998003

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_155268_2525	NW_004516458.1	Scaffold1180	2525	AA	CC	1946998007
SNP_P4_155269_2577	NW_004516458.1	Scaffold1180	2577	GG	AA	1946998009
SNP_P4_155271_2632	NW_004516458.1	Scaffold1180	2632	CC	TT	1946998011
SNP_P4_155272_2647	NW_004516458.1	Scaffold1180	2647	CC	TT	1946998013
SNP_P4_155273_2673	NW_004516458.1	Scaffold1180	2673	TT	CC	1946998015
SNP_P4_155274_2744	NW_004516458.1	Scaffold1180	2744	AA	GG	1946998017
SNP_P4_155275_2749	NW_004516458.1	Scaffold1180	2749	CC	GG	1946998019
SNP_P4_155276_2775	NW_004516458.1	Scaffold1180	2775	GG	CC	1946998021
SNP_P4_155277_2786	NW_004516458.1	Scaffold1180	2786	GG	AA	1946998023
SNP_P4_155278_2787	NW_004516458.1	Scaffold1180	2787	GG	CC	1946998025
SNP_P4_155279_2833	NW_004516458.1	Scaffold1180	2833	CC	GG	1946998027
SNP_P4_155280_2855	NW_004516458.1	Scaffold1180	2855	CC	AA	1946998030
SNP_P4_155281_2856	NW_004516458.1	Scaffold1180	2856	GG	AA	1946998032
SNP_P4_155283_2927	NW_004516458.1	Scaffold1180	2927	CC	AA	1946998034
SNP_P4_155284_2954	NW_004516458.1	Scaffold1180	2954	TT	GG	1946998036
SNP_P4_155285_2959	NW_004516458.1	Scaffold1180	2959	CC	TT	1946998038
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SNP_P4_155291_3184	NW_004516458.1	Scaffold1180	3184	AA	CC	1946998050
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SNP_P4_155295_3253	NW_004516458.1	Scaffold1180	3253	CC	TT	1946998058
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SNP_P4_155300_3357	NW_004516458.1	Scaffold1180	3357	CC	TT	1946998066
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SNP_P4_155303_3435	NW_004516458.1	Scaffold1180	3435	GG	TT	1946998072
SNP_P4_155304_3440	NW_004516458.1	Scaffold1180	3440	CC	TT	1946998074
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SNP_P4_155306_3472	NW_004516458.1	Scaffold1180	3472	GG	TT	1946998078
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SNP_P4_155308_3509	NW_004516458.1	Scaffold1180	3509	GG	AA	1946998082
SNP_P4_155309_3512	NW_004516458.1	Scaffold1180	3512	CC	TT	1946998084
SNP_P4_155310_3576	NW_004516458.1	Scaffold1180	3576	AA	GG	1946998086
SNP_P4_155311_3580	NW_004516458.1	Scaffold1180	3580	CC	TT	1946998088

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_155314_3756	NW_004516458.1	Scaffold1180	3756	AA	TT	1946998092
SNP_P4_155315_3820	NW_004516458.1	Scaffold1180	3820	TT	CC	1946998094
SNP_P4_155316_3845	NW_004516458.1	Scaffold1180	3845	TT	CC	1946998096
SNP_P4_155317_3873	NW_004516458.1	Scaffold1180	3873	AA	GG	1946998098
SNP_P4_155318_3981	NW_004516458.1	Scaffold1180	3981	CC	TT	1946998100
SNP_P4_155319_4192	NW_004516458.1	Scaffold1180	4192	CC	TT	1946998102
SNP_P4_155320_4195	NW_004516458.1	Scaffold1180	4195	AA	CC	1946998104
SNP_P4_155321_4204	NW_004516458.1	Scaffold1180	4204	CC	TT	1946998106
SNP_P4_155322_4214	NW_004516458.1	Scaffold1180	4214	GG	AA	1946998108
SNP_P4_155323_4223	NW_004516458.1	Scaffold1180	4223	CC	TT	1946998110
SNP_P4_155324_4246	NW_004516458.1	Scaffold1180	4246	CC	TT	1946998112
SNP_P4_155325_11371	NW_004516458.1	Scaffold1180	11371	TT	CC	1946998114
SNP_P4_155326_11433	NW_004516458.1	Scaffold1180	11433	GG	AA	1946998116
SNP_P4_155327_11635	NW_004516458.1	Scaffold1180	11635	AA	GG	1946998118
SNP_P4_155328_11641	NW_004516458.1	Scaffold1180	11641	TT	GG	1946998120
SNP_P4_155329_11689	NW_004516458.1	Scaffold1180	11689	AA	GG	1946998122
SNP_P4_155330_11693	NW_004516458.1	Scaffold1180	11693	AA	TT	1946998124
SNP_P4_155331_13225	NW_004516458.1	Scaffold1180	13225	AA	GG	1946998126
SNP_P4_155333_36716	NW_004516458.1	Scaffold1180	36716	TT	CC	1946998128
SNP_P4_155336_59729	NW_004516458.1	Scaffold1180	59729	CC	AA	1946998130
SNP_P4_155337_59731	NW_004516458.1	Scaffold1180	59731	AA	GG	1946998132
SNP_P4_155338_59740	NW_004516458.1	Scaffold1180	59740	GG	AA	1946998134
SNP_P4_155340_60478	NW_004516458.1	Scaffold1180	60478	AA	CC	1946998136
SNP_P4_155341_71327	NW_004516458.1	Scaffold1180	71327	TT	CC	1946998138
SNP_P4_155342_71361	NW_004516458.1	Scaffold1180	71361	AA	GG	1946998140
SNP_P4_155343_72696	NW_004516458.1	Scaffold1180	72696	TT	CC	1946998142
SNP_P4_155344_72703	NW_004516458.1	Scaffold1180	72703	TT	AA	1946998144
SNP_P4_155345_80602	NW_004516458.1	Scaffold1180	80602	TT	CC	1946998146
SNP_P4_155346_81261	NW_004516458.1	Scaffold1180	81261	TT	AA	1946998148
SNP_P4_155347_81274	NW_004516458.1	Scaffold1180	81274	TT	CC	1946998150
SNP_P4_155348_81275	NW_004516458.1	Scaffold1180	81275	GG	TT	1946998152
SNP_P4_155349_81346	NW_004516458.1	Scaffold1180	81346	CC	TT	1946998154
SNP_P4_155350_81496	NW_004516458.1	Scaffold1180	81496	GG	AA	1946998156
SNP_P4_155351_81614	NW_004516458.1	Scaffold1180	81614	TT	CC	1946998158
SNP_P4_155352_85097	NW_004516458.1	Scaffold1180	85097	AA	GG	1946998160
SNP_P4_155353_90503	NW_004516458.1	Scaffold1180	90503	AA	CC	1946998162
SNP_P4_155354_90872	NW_004516458.1	Scaffold1180	90872	TT	CC	1946998164
SNP_P4_155355_90927	NW_004516458.1	Scaffold1180	90927	GG	AA	1946998166
SNP_P4_155356_92052	NW_004516458.1	Scaffold1180	92052	AA	GG	1946998168
SNP_P4_155357_92053	NW_004516458.1	Scaffold1180	92053	TT	CC	1946998170
SNP_P4_155358_92457	NW_004516458.1	Scaffold1180	92457	TT	CC	1946998172

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_155360_93114	NW_004516458.1	Scaffold1180	93114	TT	CC	1946998176
SNP_P4_155361_93135	NW_004516458.1	Scaffold1180	93135	AA	GG	1946998178
SNP_P4_155362_93144	NW_004516458.1	Scaffold1180	93144	AA	GG	1946998180
SNP_P4_155363_93171	NW_004516458.1	Scaffold1180	93171	CC	TT	1946998182
SNP_P4_155364_93173	NW_004516458.1	Scaffold1180	93173	GG	AA	1946998184
SNP_P4_155365_93180	NW_004516458.1	Scaffold1180	93180	AA	CC	1946998186
SNP_P4_155366_93182	NW_004516458.1	Scaffold1180	93182	AA	CC	1946998188
SNP_P4_155367_93222	NW_004516458.1	Scaffold1180	93222	AA	GG	1946998190
SNP_P4_155368_93276	NW_004516458.1	Scaffold1180	93276	AA	GG	1946998192
SNP_P4_155369_93279	NW_004516458.1	Scaffold1180	93279	GG	AA	1946998194
SNP_P4_155370_93280	NW_004516458.1	Scaffold1180	93280	AA	GG	1946998196
SNP_P4_155371_93281	NW_004516458.1	Scaffold1180	93281	CC	TT	1946998198
SNP_P4_155372_93300	NW_004516458.1	Scaffold1180	93300	CC	TT	1946998200
SNP_P4_155373_93309	NW_004516458.1	Scaffold1180	93309	GG	AA	1946998202
SNP_P4_155374_93313	NW_004516458.1	Scaffold1180	93313	TT	CC	1946998204
SNP_P4_155375_96605	NW_004516458.1	Scaffold1180	96605	TT	CC	1946998206
SNP_P4_155376_110084	NW_004516458.1	Scaffold1180	110084	AA	TT	1946998208
SNP_P4_155377_121933	NW_004516458.1	Scaffold1180	121933	GG	AA	1946998210
SNP_P4_155378_121937	NW_004516458.1	Scaffold1180	121937	GG	TT	1946998212
SNP_P4_155379_133804	NW_004516458.1	Scaffold1180	133804	TT	GG	1946998214
SNP_P4_155380_134330	NW_004516458.1	Scaffold1180	134330	TT	CC	1946998216
SNP_P4_155381_134530	NW_004516458.1	Scaffold1180	134530	CC	TT	1946998218
SNP_P4_155382_134543	NW_004516458.1	Scaffold1180	134543	TT	CC	1946998220
SNP_P4_155383_134695	NW_004516458.1	Scaffold1180	134695	GG	TT	1946998222
SNP_P4_155384_134696	NW_004516458.1	Scaffold1180	134696	GG	CC	1946998224
SNP_P4_155385_134711	NW_004516458.1	Scaffold1180	134711	GG	AA	1946998225
SNP_P4_155386_134734	NW_004516458.1	Scaffold1180	134734	GG	CC	1946998226
SNP_P4_155387_134791	NW_004516458.1	Scaffold1180	134791	AA	GG	1946998227
SNP_P4_155388_134930	NW_004516458.1	Scaffold1180	134930	CC	AA	1946998228
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SNP_P4_155391_135743	NW_004516458.1	Scaffold1180	135743	GG	CC	1946998230
SNP_P4_155392_136044	NW_004516458.1	Scaffold1180	136044	CC	AA	1946998231
SNP_P4_155393_136048	NW_004516458.1	Scaffold1180	136048	AA	GG	1946998232
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SNP_P4_155396_138082	NW_004516458.1	Scaffold1180	138082	GG	AA	1946998235
SNP_P4_155397_148457	NW_004516458.1	Scaffold1180	148457	CC	TT	1946998236
SNP_P4_155398_149244	NW_004516458.1	Scaffold1180	149244	TT	CC	1946998237
SNP_P4_155399_156405	NW_004516458.1	Scaffold1180	156405	CC	GG	1946998238
SNP_P4_155400_157624	NW_004516458.1	Scaffold1180	157624	GG	CC	1946998239
SNP_P4_155402_157717	NW_004516458.1	Scaffold1180	157717	CC	TT	1946998240

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_155404_157882	NW_004516458.1	Scaffold1180	157882	CC	TT	1946998242
SNP_P4_155405_158042	NW_004516458.1	Scaffold1180	158042	AA	TT	1946998243
SNP_P4_155406_160463	NW_004516458.1	Scaffold1180	160463	CC	TT	1946998244
SNP_P4_155407_161106	NW_004516458.1	Scaffold1180	161106	CC	TT	1946998245
SNP_P4_155408_163196	NW_004516458.1	Scaffold1180	163196	CC	TT	1946998246
SNP_P4_155409_168317	NW_004516458.1	Scaffold1180	168317	CC	TT	1946998247
SNP_P4_155410_168318	NW_004516458.1	Scaffold1180	168318	CC	TT	1946998248
SNP_P4_155411_168346	NW_004516458.1	Scaffold1180	168346	TT	AA	1946998249
SNP_P4_155412_170839	NW_004516458.1	Scaffold1180	170839	TT	AA	1946998250
SNP_P4_155413_190298	NW_004516458.1	Scaffold1180	190298	AA	TT	1946998251
SNP_P4_155414_194401	NW_004516458.1	Scaffold1180	194401	GG	AA	1946998252
SNP_P4_155415_194764	NW_004516458.1	Scaffold1180	194764	CC	AA	1946998253
SNP_P4_155416_194978	NW_004516458.1	Scaffold1180	194978	TT	CC	1946998254
SNP_P4_155417_194981	NW_004516458.1	Scaffold1180	194981	TT	GG	1946998255
SNP_P4_155418_195014	NW_004516458.1	Scaffold1180	195014	GG	AA	1946998256
SNP_P4_155419_195021	NW_004516458.1	Scaffold1180	195021	AA	TT	1946998257
SNP_P4_155420_195206	NW_004516458.1	Scaffold1180	195206	CC	TT	1946998258
SNP_P4_155422_207113	NW_004516458.1	Scaffold1180	207113	CC	AA	1946998259
SNP_P4_155423_207624	NW_004516458.1	Scaffold1180	207624	GG	AA	1946998260
SNP_P4_155424_208395	NW_004516458.1	Scaffold1180	208395	GG	AA	1946998261
SNP_P4_155426_208673	NW_004516458.1	Scaffold1180	208673	TT	CC	1946998262
SNP_P4_155427_208784	NW_004516458.1	Scaffold1180	208784	GG	AA	1946998263
SNP_P4_155428_209484	NW_004516458.1	Scaffold1180	209484	AA	GG	1946998264
SNP_P4_155429_209496	NW_004516458.1	Scaffold1180	209496	TT	CC	1946998265
SNP_P4_155430_209645	NW_004516458.1	Scaffold1180	209645	TT	CC	1946998266
SNP_P4_155431_209690	NW_004516458.1	Scaffold1180	209690	AA	GG	1946998267
SNP_P4_155432_209867	NW_004516458.1	Scaffold1180	209867	CC	TT	1946998268
SNP_P4_155433_209943	NW_004516458.1	Scaffold1180	209943	GG	TT	1946998269
SNP_P4_155434_210794	NW_004516458.1	Scaffold1180	210794	GG	TT	1946998270
SNP_P4_155435_210828	NW_004516458.1	Scaffold1180	210828	AA	TT	1946998271
SNP_P4_155436_210906	NW_004516458.1	Scaffold1180	210906	CC	GG	1946998272
SNP_P4_155437_210987	NW_004516458.1	Scaffold1180	210987	CC	TT	1946998273
SNP_P4_155438_211369	NW_004516458.1	Scaffold1180	211369	AA	GG	1946998274
SNP_P4_155439_211370	NW_004516458.1	Scaffold1180	211370	TT	GG	1946998275
SNP_P4_155440_211381	NW_004516458.1	Scaffold1180	211381	AA	GG	1946998276
SNP_P4_155441_211397	NW_004516458.1	Scaffold1180	211397	AA	CC	1946998277
SNP_P4_155442_211426	NW_004516458.1	Scaffold1180	211426	CC	GG	1946998278
SNP_P4_155443_212307	NW_004516458.1	Scaffold1180	212307	AA	GG	1946998279
SNP_P4_155444_212316	NW_004516458.1	Scaffold1180	212316	TT	AA	1946998280
SNP_P4_155445_212352	NW_004516458.1	Scaffold1180	212352	TT	CC	1946998281
SNP_P4_155446_212514	NW_004516458.1	Scaffold1180	212514	GG	AA	1946998282

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_155449_213925	NW_004516458.1	Scaffold1180	213925	TT	CC	1946998285
SNP_P4_155450_215388	NW_004516458.1	Scaffold1180	215388	AA	CC	1946998286
SNP_P4_155453_215754	NW_004516458.1	Scaffold1180	215754	GG	AA	1946998287
SNP_P4_155454_216211	NW_004516458.1	Scaffold1180	216211	GG	AA	1946998288
SNP_P4_155455_217872	NW_004516458.1	Scaffold1180	217872	GG	CC	1946998289
SNP_P4_155456_218496	NW_004516458.1	Scaffold1180	218496	GG	AA	1946998290
SNP_P4_155457_218585	NW_004516458.1	Scaffold1180	218585	TT	CC	1946998291
SNP_P4_155458_218733	NW_004516458.1	Scaffold1180	218733	GG	AA	1946998292
SNP_P4_155459_218745	NW_004516458.1	Scaffold1180	218745	CC	TT	1946998293
SNP_P4_155460_218887	NW_004516458.1	Scaffold1180	218887	GG	CC	1946998294
SNP_P4_155461_218892	NW_004516458.1	Scaffold1180	218892	CC	TT	1946998295
SNP_P4_155462_219037	NW_004516458.1	Scaffold1180	219037	AA	CC	1946998296
SNP_P4_155463_219039	NW_004516458.1	Scaffold1180	219039	GG	TT	1946998297
SNP_P4_155464_219136	NW_004516458.1	Scaffold1180	219136	GG	TT	1946998299
SNP_P4_155465_219154	NW_004516458.1	Scaffold1180	219154	GG	AA	1946998301
SNP_P4_155466_219188	NW_004516458.1	Scaffold1180	219188	GG	AA	1946998303
SNP_P4_155467_219189	NW_004516458.1	Scaffold1180	219189	TT	GG	1946998305
SNP_P4_155468_225229	NW_004516458.1	Scaffold1180	225229	AA	GG	1946998307
SNP_P4_155469_225474	NW_004516458.1	Scaffold1180	225474	CC	GG	1946998309
SNP_P4_155472_227295	NW_004516458.1	Scaffold1180	227295	AA	TT	1946998310
SNP_P4_155473_227312	NW_004516458.1	Scaffold1180	227312	TT	AA	1946998312
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SNP_P4_155476_228110	NW_004516458.1	Scaffold1180	228110	GG	CC	1946998316
SNP_P4_155477_228205	NW_004516458.1	Scaffold1180	228205	GG	TT	1946998318
SNP_P4_155478_228238	NW_004516458.1	Scaffold1180	228238	TT	CC	1946998320
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SNP_P4_155482_236799	NW_004516458.1	Scaffold1180	236799	TT	AA	1946998328
SNP_P4_155483_240910	NW_004516458.1	Scaffold1180	240910	AA	GG	1946998329
SNP_P4_155484_240923	NW_004516458.1	Scaffold1180	240923	AA	GG	1946998331
SNP_P4_155485_241210	NW_004516458.1	Scaffold1180	241210	AA	GG	1946998333
SNP_P4_155486_241239	NW_004516458.1	Scaffold1180	241239	TT	AA	1946998335
SNP_P4_155487_241276	NW_004516458.1	Scaffold1180	241276	CC	GG	1946998337
SNP_P4_155488_241313	NW_004516458.1	Scaffold1180	241313	AA	GG	1946998339
SNP_P4_155489_241445	NW_004516458.1	Scaffold1180	241445	AA	GG	1946998341
SNP_P4_155490_243358	NW_004516458.1	Scaffold1180	243358	GG	AA	1946998343
SNP_P4_155491_243367	NW_004516458.1	Scaffold1180	243367	GG	TT	1946998345
SNP_P4_155492_244943	NW_004516458.1	Scaffold1180	244943	AA	GG	1946998347
SNP_P4_155493_247530	NW_004516458.1	Scaffold1180	247530	CC	TT	1946998349

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_155496_255662	NW_004516458.1	Scaffold1180	255662	TT	CC	1946998355
SNP_P4_155497_255713	NW_004516458.1	Scaffold1180	255713	AA	GG	1946998357
SNP_P4_155498_255724	NW_004516458.1	Scaffold1180	255724	CC	GG	1946998359
SNP_P4_155499_255738	NW_004516458.1	Scaffold1180	255738	AA	CC	1946998361
SNP_P4_155500_255801	NW_004516458.1	Scaffold1180	255801	AA	TT	1946998363
SNP_P4_155501_256024	NW_004516458.1	Scaffold1180	256024	AA	GG	1946998365
SNP_P4_155502_258522	NW_004516458.1	Scaffold1180	258522	CC	TT	1946998367
SNP_P4_155503_258830	NW_004516458.1	Scaffold1180	258830	AA	GG	1946998369
SNP_P4_155504_83	NW_004516459.1	Scaffold1181	83	TT	CC	1946998371
SNP_P4_155505_475	NW_004516459.1	Scaffold1181	475	AA	CC	1946998373
SNP_P4_155506_1547	NW_004516459.1	Scaffold1181	1547	AA	TT	1946998375
SNP_P4_155507_1559	NW_004516459.1	Scaffold1181	1559	CC	GG	1946998377
SNP_P4_155508_1574	NW_004516459.1	Scaffold1181	1574	AA	TT	1946998379
SNP_P4_155509_1585	NW_004516459.1	Scaffold1181	1585	TT	AA	1946998381
SNP_P4_155510_1665	NW_004516459.1	Scaffold1181	1665	TT	AA	1946998383
SNP_P4_155511_1940	NW_004516459.1	Scaffold1181	1940	GG	CC	1946998385
SNP_P4_155512_5391	NW_004516459.1	Scaffold1181	5391	AA	TT	1946998386
SNP_P4_155513_5445	NW_004516459.1	Scaffold1181	5445	CC	AA	1946998388
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SNP_P4_155522_6429	NW_004516459.1	Scaffold1181	6429	AA	CC	1946998404
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SNP_P4_155525_6775	NW_004516459.1	Scaffold1181	6775	AA	TT	1946998409
SNP_P4_155526_6863	NW_004516459.1	Scaffold1181	6863	CC	AA	1946998411
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SNP_P4_155531_7088	NW_004516459.1	Scaffold1181	7088	AA	TT	1946998421
SNP_P4_155532_7093	NW_004516459.1	Scaffold1181	7093	CC	AA	1946998423
SNP_P4_155533_7184	NW_004516459.1	Scaffold1181	7184	AA	CC	1946998425
SNP_P4_155534_7214	NW_004516459.1	Scaffold1181	7214	TT	CC	1946998427
SNP_P4_155535_7293	NW_004516459.1	Scaffold1181	7293	AA	CC	1946998429
SNP_P4_155536_7322	NW_004516459.1	Scaffold1181	7322	AA	GG	1946998431

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_155539_10628	NW_004516459.1	Scaffold1181	10628	AA	CC	1946998437
SNP_P4_155540_10634	NW_004516459.1	Scaffold1181	10634	AA	CC	1946998439
SNP_P4_155541_10640	NW_004516459.1	Scaffold1181	10640	CC	AA	1946998441
SNP_P4_155542_10642	NW_004516459.1	Scaffold1181	10642	TT	CC	1946998443
SNP_P4_155543_10647	NW_004516459.1	Scaffold1181	10647	AA	CC	1946998445
SNP_P4_155544_10664	NW_004516459.1	Scaffold1181	10664	TT	AA	1946998446
SNP_P4_155545_10712	NW_004516459.1	Scaffold1181	10712	CC	AA	1946998448
SNP_P4_155546_10742	NW_004516459.1	Scaffold1181	10742	CC	TT	1946998450
SNP_P4_155547_10906	NW_004516459.1	Scaffold1181	10906	CC	TT	1946998452
SNP_P4_155548_10993	NW_004516459.1	Scaffold1181	10993	TT	CC	1946998454
SNP_P4_155549_11066	NW_004516459.1	Scaffold1181	11066	TT	CC	1946998456
SNP_P4_155550_11124	NW_004516459.1	Scaffold1181	11124	AA	CC	1946998458
SNP_P4_155552_11252	NW_004516459.1	Scaffold1181	11252	CC	AA	1946998460
SNP_P4_155553_11253	NW_004516459.1	Scaffold1181	11253	CC	TT	1946998462
SNP_P4_155554_11257	NW_004516459.1	Scaffold1181	11257	AA	TT	1946998464
SNP_P4_155555_11264	NW_004516459.1	Scaffold1181	11264	AA	TT	1946998466
SNP_P4_155556_11271	NW_004516459.1	Scaffold1181	11271	AA	TT	1946998468
SNP_P4_155557_11273	NW_004516459.1	Scaffold1181	11273	AA	CC	1946998470
SNP_P4_155558_11278	NW_004516459.1	Scaffold1181	11278	AA	TT	1946998471
SNP_P4_155559_11285	NW_004516459.1	Scaffold1181	11285	AA	TT	1946998473
SNP_P4_155560_11300	NW_004516459.1	Scaffold1181	11300	TT	CC	1946998475
SNP_P4_155561_11499	NW_004516459.1	Scaffold1181	11499	AA	GG	1946998477
SNP_P4_155562_11534	NW_004516459.1	Scaffold1181	11534	AA	GG	1946998479
SNP_P4_155563_11546	NW_004516459.1	Scaffold1181	11546	GG	CC	1946998481
SNP_P4_155564_11549	NW_004516459.1	Scaffold1181	11549	GG	CC	1946998483
SNP_P4_155566_181	NW_004516461.1	Scaffold1183	181	TT	CC	1946998484
SNP_P4_155567_361	NW_004516461.1	Scaffold1183	361	CC	GG	1946998486
SNP_P4_155568_1965	NW_004516461.1	Scaffold1183	1965	CC	AA	1946998488
SNP_P4_155569_2590	NW_004516461.1	Scaffold1183	2590	AA	CC	1946998490
SNP_P4_155570_24880	NW_004516461.1	Scaffold1183	24880	GG	AA	1946998492
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SNP_P4_155573_29844	NW_004516461.1	Scaffold1183	29844	AA	GG	1946998498
SNP_P4_155574_31009	NW_004516461.1	Scaffold1183	31009	CC	AA	1946998500
SNP_P4_155575_42747	NW_004516461.1	Scaffold1183	42747	GG	AA	1946998502
SNP_P4_155576_42759	NW_004516461.1	Scaffold1183	42759	TT	CC	1946998503
SNP_P4_155577_45217	NW_004516461.1	Scaffold1183	45217	TT	GG	1946998505
SNP_P4_155578_45627	NW_004516461.1	Scaffold1183	45627	AA	CC	1946998507
SNP_P4_155579_45647	NW_004516461.1	Scaffold1183	45647	GG	AA	1946998509
SNP_P4_155580_45667	NW_004516461.1	Scaffold1183	45667	GG	AA	1946998511

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_155582_60455	NW_004516461.1	Scaffold1183	60455	AA	GG	1946998515
SNP_P4_155583_60478	NW_004516461.1	Scaffold1183	60478	AA	GG	1946998517
SNP_P4_155584_60653	NW_004516461.1	Scaffold1183	60653	CC	TT	1946998519
SNP_P4_155585_60953	NW_004516461.1	Scaffold1183	60953	AA	GG	1946998521
SNP_P4_155587_75739	NW_004516461.1	Scaffold1183	75739	CC	GG	1946998523
SNP_P4_155588_75951	NW_004516461.1	Scaffold1183	75951	GG	TT	1946998525
SNP_P4_155589_76003	NW_004516461.1	Scaffold1183	76003	AA	TT	1946998527
SNP_P4_155590_76058	NW_004516461.1	Scaffold1183	76058	CC	TT	1946998529
SNP_P4_155591_76061	NW_004516461.1	Scaffold1183	76061	TT	AA	1946998531
SNP_P4_155592_76114	NW_004516461.1	Scaffold1183	76114	TT	CC	1946998533
SNP_P4_155594_96949	NW_004516461.1	Scaffold1183	96949	GG	CC	1946998535
SNP_P4_155595_107680	NW_004516461.1	Scaffold1183	107680	CC	TT	1946998536
SNP_P4_155597_115008	NW_004516461.1	Scaffold1183	115008	TT	AA	1946998538
SNP_P4_155598_129097	NW_004516461.1	Scaffold1183	129097	AA	CC	1946998540
SNP_P4_155599_130848	NW_004516461.1	Scaffold1183	130848	CC	AA	1946998542
SNP_P4_155600_131079	NW_004516461.1	Scaffold1183	131079	AA	GG	1946998544
SNP_P4_155602_135574	NW_004516461.1	Scaffold1183	135574	AA	GG	1946998546
SNP_P4_155604_147567	NW_004516461.1	Scaffold1183	147567	TT	CC	1946998548
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SNP_P4_155606_147627	NW_004516461.1	Scaffold1183	147627	CC	AA	1946998552
SNP_P4_155607_147669	NW_004516461.1	Scaffold1183	147669	AA	GG	1946998554
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SNP_P4_155609_147831	NW_004516461.1	Scaffold1183	147831	CC	GG	1946998558
SNP_P4_155611_148831	NW_004516461.1	Scaffold1183	148831	CC	GG	1946998560
SNP_P4_155612_148919	NW_004516461.1	Scaffold1183	148919	AA	GG	1946998562
SNP_P4_155613_149438	NW_004516461.1	Scaffold1183	149438	GG	AA	1946998564
SNP_P4_155614_151649	NW_004516461.1	Scaffold1183	151649	AA	GG	1946998566
SNP_P4_155615_151846	NW_004516461.1	Scaffold1183	151846	AA	TT	1946998568
SNP_P4_155617_201933	NW_004516461.1	Scaffold1183	201933	TT	CC	1946998570
SNP_P4_155618_210612	NW_004516461.1	Scaffold1183	210612	CC	TT	1946998572
SNP_P4_155619_232085	NW_004516461.1	Scaffold1183	232085	CC	TT	1946998574
SNP_P4_155620_232092	NW_004516461.1	Scaffold1183	232092	TT	CC	1946998576
SNP_P4_155621_234544	NW_004516461.1	Scaffold1183	234544	CC	TT	1946998578
SNP_P4_155622_2437	NW_004516462.1	Scaffold1185	2437	TT	CC	1946998580
SNP_P4_155623_2946	NW_004516462.1	Scaffold1185	2946	CC	AA	1946998582
SNP_P4_155624_3529	NW_004516462.1	Scaffold1185	3529	TT	GG	1946998583
SNP_P4_155625_3698	NW_004516462.1	Scaffold1185	3698	CC	TT	1946998585
SNP_P4_155626_3811	NW_004516462.1	Scaffold1185	3811	AA	TT	1946998587
SNP_P4_155627_3828	NW_004516462.1	Scaffold1185	3828	TT	AA	1946998589
SNP_P4_155628_4030	NW_004516462.1	Scaffold1185	4030	GG	AA	1946998591
SNP_P4_155629_4308	NW_004516462.1	Scaffold1185	4308	TT	AA	1946998593

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_155631_5496	NW_004516462.1	Scaffold1185	5496	GG	AA	1946998597
SNP_P4_155632_5580	NW_004516462.1	Scaffold1185	5580	TT	CC	1946998599
SNP_P4_155633_6187	NW_004516462.1	Scaffold1185	6187	GG	TT	1946998601
SNP_P4_155635_6648	NW_004516462.1	Scaffold1185	6648	AA	GG	1946998603
SNP_P4_155636_6650	NW_004516462.1	Scaffold1185	6650	AA	TT	1946998605
SNP_P4_155637_7745	NW_004516462.1	Scaffold1185	7745	TT	CC	1946998607
SNP_P4_155638_9100	NW_004516462.1	Scaffold1185	9100	GG	AA	1946998608
SNP_P4_155639_9129	NW_004516462.1	Scaffold1185	9129	AA	GG	1946998610
SNP_P4_155640_9192	NW_004516462.1	Scaffold1185	9192	GG	AA	1946998612
SNP_P4_155641_10573	NW_004516462.1	Scaffold1185	10573	CC	TT	1946998614
SNP_P4_155642_10859	NW_004516462.1	Scaffold1185	10859	GG	AA	1946998616
SNP_P4_155643_10951	NW_004516462.1	Scaffold1185	10951	GG	TT	1946998618
SNP_P4_155644_12319	NW_004516462.1	Scaffold1185	12319	TT	AA	1946998620
SNP_P4_155645_12650	NW_004516462.1	Scaffold1185	12650	CC	AA	1946998622
SNP_P4_155646_12911	NW_004516462.1	Scaffold1185	12911	GG	AA	1946998624
SNP_P4_155647_13994	NW_004516462.1	Scaffold1185	13994	GG	TT	1946998626
SNP_P4_155648_14106	NW_004516462.1	Scaffold1185	14106	AA	GG	1946998628
SNP_P4_155649_14127	NW_004516462.1	Scaffold1185	14127	GG	AA	1946998629
SNP_P4_155650_14153	NW_004516462.1	Scaffold1185	14153	TT	CC	1946998631
SNP_P4_155651_14447	NW_004516462.1	Scaffold1185	14447	GG	TT	1946998633
SNP_P4_155652_15776	NW_004516462.1	Scaffold1185	15776	CC	TT	1946998635
SNP_P4_155653_19972	NW_004516462.1	Scaffold1185	19972	CC	TT	1946998637
SNP_P4_155654_19984	NW_004516462.1	Scaffold1185	19984	GG	CC	1946998639
SNP_P4_155655_20271	NW_004516462.1	Scaffold1185	20271	AA	CC	1946998641
SNP_P4_155656_20443	NW_004516462.1	Scaffold1185	20443	GG	AA	1946998643
SNP_P4_155657_21339	NW_004516462.1	Scaffold1185	21339	CC	TT	1946998645
SNP_P4_155658_21525	NW_004516462.1	Scaffold1185	21525	CC	TT	1946998647
SNP_P4_155659_21798	NW_004516462.1	Scaffold1185	21798	TT	AA	1946998649
SNP_P4_155660_22115	NW_004516462.1	Scaffold1185	22115	CC	AA	1946998651
SNP_P4_155661_22154	NW_004516462.1	Scaffold1185	22154	AA	GG	1946998653
SNP_P4_155662_22287	NW_004516462.1	Scaffold1185	22287	TT	AA	1946998655
SNP_P4_155663_22295	NW_004516462.1	Scaffold1185	22295	AA	CC	1946998657
SNP_P4_155664_24596	NW_004516462.1	Scaffold1185	24596	AA	CC	1946998659
SNP_P4_155665_25006	NW_004516462.1	Scaffold1185	25006	CC	AA	1946998661
SNP_P4_155666_25273	NW_004516462.1	Scaffold1185	25273	AA	GG	1946998663
SNP_P4_155667_25776	NW_004516462.1	Scaffold1185	25776	GG	AA	1946998665
SNP_P4_155668_26098	NW_004516462.1	Scaffold1185	26098	TT	CC	1946998666
SNP_P4_155669_26140	NW_004516462.1	Scaffold1185	26140	CC	TT	1946998668
SNP_P4_155670_26283	NW_004516462.1	Scaffold1185	26283	GG	AA	1946998670
SNP_P4_155671_26456	NW_004516462.1	Scaffold1185	26456	CC	AA	1946998672
SNP_P4_155672_27488	NW_004516462.1	Scaffold1185	27488	AA	GG	1946998674

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_155674_27891	NW_004516462.1	Scaffold1185	27891	GG	AA	1946998678
SNP_P4_155675_28071	NW_004516462.1	Scaffold1185	28071	TT	AA	1946998680
SNP_P4_155676_29835	NW_004516462.1	Scaffold1185	29835	GG	AA	1946998682
SNP_P4_155677_30154	NW_004516462.1	Scaffold1185	30154	GG	CC	1946998684
SNP_P4_155678_30199	NW_004516462.1	Scaffold1185	30199	CC	TT	1946998686
SNP_P4_155679_30502	NW_004516462.1	Scaffold1185	30502	GG	AA	1946998688
SNP_P4_155680_30507	NW_004516462.1	Scaffold1185	30507	GG	TT	1946998690
SNP_P4_155681_30539	NW_004516462.1	Scaffold1185	30539	CC	TT	1946998692
SNP_P4_155682_30983	NW_004516462.1	Scaffold1185	30983	GG	AA	1946998693
SNP_P4_155683_38662	NW_004516462.1	Scaffold1185	38662	TT	CC	1946998695
SNP_P4_155684_38749	NW_004516462.1	Scaffold1185	38749	TT	AA	1946998697
SNP_P4_155686_39169	NW_004516462.1	Scaffold1185	39169	AA	GG	1946998699
SNP_P4_155687_46909	NW_004516462.1	Scaffold1185	46909	AA	GG	1946998701
SNP_P4_155689_67222	NW_004516462.1	Scaffold1185	67222	AA	TT	1946998703
SNP_P4_155690_67255	NW_004516462.1	Scaffold1185	67255	CC	TT	1946998705
SNP_P4_155693_67645	NW_004516462.1	Scaffold1185	67645	AA	CC	1946998707
SNP_P4_155694_67697	NW_004516462.1	Scaffold1185	67697	TT	CC	1946998709
SNP_P4_155696_92640	NW_004516462.1	Scaffold1185	92640	TT	CC	1946998711
SNP_P4_155697_92656	NW_004516462.1	Scaffold1185	92656	AA	TT	1946998713
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SNP_P4_155699_92671	NW_004516462.1	Scaffold1185	92671	GG	CC	1946998717
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SNP_P4_155702_93617	NW_004516462.1	Scaffold1185	93617	AA	GG	1946998723
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SNP_P4_155707_108003	NW_004516462.1	Scaffold1185	108003	AA	TT	1946998733
SNP_P4_155708_110960	NW_004516462.1	Scaffold1185	110960	CC	TT	1946998735
SNP_P4_155709_115425	NW_004516462.1	Scaffold1185	115425	TT	CC	1946998737
SNP_P4_155710_115429	NW_004516462.1	Scaffold1185	115429	AA	CC	1946998739
SNP_P4_155711_115432	NW_004516462.1	Scaffold1185	115432	CC	AA	1946998741
SNP_P4_155712_115468	NW_004516462.1	Scaffold1185	115468	CC	GG	1946998743
SNP_P4_155713_115480	NW_004516462.1	Scaffold1185	115480	CC	GG	1946998745
SNP_P4_155714_115691	NW_004516462.1	Scaffold1185	115691	TT	GG	1946998747
SNP_P4_155715_115715	NW_004516462.1	Scaffold1185	115715	GG	AA	1946998749
SNP_P4_155716_115720	NW_004516462.1	Scaffold1185	115720	TT	CC	1946998751
SNP_P4_155718_134345	NW_004516462.1	Scaffold1185	134345	TT	CC	1946998753
SNP_P4_155719_414	NW_004516465.1	Scaffold1191	414	AA	GG	1946998755
SNP_P4_155720_517	NW_004516465.1	Scaffold1191	517	CC	AA	1946998757

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_155722_824	NW_004516465.1	Scaffold1191	824	TT	CC	1946998761
SNP_P4_155723_188	NW_004516466.1	Scaffold1192	188	AA	GG	1946998763
SNP_P4_155724_366	NW_004516466.1	Scaffold1192	366	GG	CC	1946998765
SNP_P4_155726_400	NW_004516466.1	Scaffold1192	400	TT	AA	1946998767
SNP_P4_155727_470	NW_004516466.1	Scaffold1192	470	GG	CC	1946998769
SNP_P4_155728_479	NW_004516466.1	Scaffold1192	479	GG	AA	1946998771
SNP_P4_155729_491	NW_004516466.1	Scaffold1192	491	CC	TT	1946998773
SNP_P4_155730_517	NW_004516466.1	Scaffold1192	517	CC	AA	1946998775
SNP_P4_155731_549	NW_004516466.1	Scaffold1192	549	GG	TT	1946998776
SNP_P4_155732_630	NW_004516466.1	Scaffold1192	630	TT	GG	1946998778
SNP_P4_155733_643	NW_004516466.1	Scaffold1192	643	TT	AA	1946998780
SNP_P4_155734_650	NW_004516466.1	Scaffold1192	650	GG	AA	1946998782
SNP_P4_155735_660	NW_004516466.1	Scaffold1192	660	AA	GG	1946998784
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SNP_P4_155738_7605	NW_004516467.1	Scaffold1193	7605	TT	CC	1946998788
SNP_P4_155739_8123	NW_004516467.1	Scaffold1193	8123	CC	TT	1946998790
SNP_P4_155740_8970	NW_004516467.1	Scaffold1193	8970	CC	AA	1946998792
SNP_P4_155741_9032	NW_004516467.1	Scaffold1193	9032	CC	TT	1946998794
SNP_P4_155742_9039	NW_004516467.1	Scaffold1193	9039	CC	TT	1946998796
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SNP_P4_155748_62892	NW_004516467.1	Scaffold1193	62892	CC	TT	1946998804
SNP_P4_155749_62927	NW_004516467.1	Scaffold1193	62927	TT	CC	1946998806
SNP_P4_155750_62963	NW_004516467.1	Scaffold1193	62963	GG	TT	1946998808
SNP_P4_155751_62991	NW_004516467.1	Scaffold1193	62991	AA	GG	1946998810
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SNP_P4_155761_98220	NW_004516467.1	Scaffold1193	98220	AA	GG	1946998828
SNP_P4_155762_137529	NW_004516467.1	Scaffold1193	137529	AA	CC	1946998830
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SNP_P4_155765_166702	NW_004516467.1	Scaffold1193	166702	GG	CC	1946998834
SNP_P4_155766_192381	NW_004516467.1	Scaffold1193	192381	AA	GG	1946998836
SNP_P4_155767_192614	NW_004516467.1	Scaffold1193	192614	GG	AA	1946998838
SNP_P4_155768_194055	NW_004516467.1	Scaffold1193	194055	AA	GG	1946998840

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_155770_194079	NW_004516467.1	Scaffold1193	194079	CC	AA	1946998844
SNP_P4_155771_194400	NW_004516467.1	Scaffold1193	194400	TT	GG	1946998846
SNP_P4_155772_222158	NW_004516467.1	Scaffold1193	222158	AA	GG	1946998848
SNP_P4_155773_222453	NW_004516467.1	Scaffold1193	222453	AA	GG	1946998850
SNP_P4_155774_222582	NW_004516467.1	Scaffold1193	222582	TT	AA	1946998852
SNP_P4_155775_222619	NW_004516467.1	Scaffold1193	222619	GG	TT	1946998854
SNP_P4_155776_222626	NW_004516467.1	Scaffold1193	222626	TT	AA	1946998856
SNP_P4_155777_226065	NW_004516467.1	Scaffold1193	226065	GG	AA	1946998858
SNP_P4_155778_227269	NW_004516467.1	Scaffold1193	227269	TT	CC	1946998860
SNP_P4_155780_241650	NW_004516467.1	Scaffold1193	241650	GG	AA	1946998862
SNP_P4_155781_241720	NW_004516467.1	Scaffold1193	241720	TT	CC	1946998864
SNP_P4_155782_241763	NW_004516467.1	Scaffold1193	241763	TT	CC	1946998866
SNP_P4_155783_241772	NW_004516467.1	Scaffold1193	241772	TT	CC	1946998868
SNP_P4_155784_241933	NW_004516467.1	Scaffold1193	241933	CC	TT	1946998870
SNP_P4_155785_241942	NW_004516467.1	Scaffold1193	241942	CC	TT	1946998872
SNP_P4_155786_241969	NW_004516467.1	Scaffold1193	241969	AA	GG	1946998874
SNP_P4_155787_241988	NW_004516467.1	Scaffold1193	241988	GG	TT	1946998876
SNP_P4_155788_242036	NW_004516467.1	Scaffold1193	242036	AA	GG	1946998878
SNP_P4_155789_242043	NW_004516467.1	Scaffold1193	242043	AA	GG	1946998880
SNP_P4_155790_242055	NW_004516467.1	Scaffold1193	242055	AA	GG	1946998882
SNP_P4_155791_242059	NW_004516467.1	Scaffold1193	242059	TT	CC	1946998884
SNP_P4_155792_248235	NW_004516467.1	Scaffold1193	248235	TT	GG	1946998886
SNP_P4_155793_250384	NW_004516467.1	Scaffold1193	250384	AA	GG	1946998888
SNP_P4_155794_250698	NW_004516467.1	Scaffold1193	250698	AA	GG	1946998890
SNP_P4_155795_257885	NW_004516467.1	Scaffold1193	257885	TT	CC	1946998891
SNP_P4_155796_257886	NW_004516467.1	Scaffold1193	257886	GG	AA	1946998893
SNP_P4_155797_257891	NW_004516467.1	Scaffold1193	257891	TT	CC	1946998895
SNP_P4_155798_257892	NW_004516467.1	Scaffold1193	257892	CC	TT	1946998897
SNP_P4_155799_258201	NW_004516467.1	Scaffold1193	258201	GG	AA	1946998899
SNP_P4_155800_258240	NW_004516467.1	Scaffold1193	258240	CC	TT	1946998901
SNP_P4_155801_271783	NW_004516467.1	Scaffold1193	271783	GG	TT	1946998903
SNP_P4_155802_272715	NW_004516467.1	Scaffold1193	272715	AA	GG	1946998905
SNP_P4_155803_272732	NW_004516467.1	Scaffold1193	272732	TT	CC	1946998907
SNP_P4_155804_272831	NW_004516467.1	Scaffold1193	272831	CC	TT	1946998909
SNP_P4_155805_272837	NW_004516467.1	Scaffold1193	272837	CC	GG	1946998911
SNP_P4_155806_272843	NW_004516467.1	Scaffold1193	272843	CC	TT	1946998913
SNP_P4_155807_272852	NW_004516467.1	Scaffold1193	272852	GG	AA	1946998915
SNP_P4_155808_272858	NW_004516467.1	Scaffold1193	272858	TT	CC	1946998917
SNP_P4_155809_272900	NW_004516467.1	Scaffold1193	272900	CC	TT	1946998919
SNP_P4_155810_272906	NW_004516467.1	Scaffold1193	272906	GG	AA	1946998921
SNP_P4_155811_275557	NW_004516467.1	Scaffold1193	275557	GG	CC	1946998923

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_155813_404	NW_004516469.1	Scaffold1195	404	AA	GG	1946998927
SNP_P4_155814_438	NW_004516469.1	Scaffold1195	438	CC	TT	1946998929
SNP_P4_155815_456	NW_004516469.1	Scaffold1195	456	AA	GG	1946998931
SNP_P4_155817_33484	NW_004516469.1	Scaffold1195	33484	CC	TT	1946998933
SNP_P4_155818_33506	NW_004516469.1	Scaffold1195	33506	AA	GG	1946998935
SNP_P4_155819_34974	NW_004516469.1	Scaffold1195	34974	AA	CC	1946998938
SNP_P4_155820_35025	NW_004516469.1	Scaffold1195	35025	AA	GG	1946998940
SNP_P4_155821_35082	NW_004516469.1	Scaffold1195	35082	CC	TT	1946998942
SNP_P4_155822_35084	NW_004516469.1	Scaffold1195	35084	TT	CC	1946998944
SNP_P4_155823_35129	NW_004516469.1	Scaffold1195	35129	AA	CC	1946998946
SNP_P4_155824_35142	NW_004516469.1	Scaffold1195	35142	TT	CC	1946998948
SNP_P4_155825_35180	NW_004516469.1	Scaffold1195	35180	AA	GG	1946998950
SNP_P4_155826_35227	NW_004516469.1	Scaffold1195	35227	AA	GG	1946998952
SNP_P4_155827_35494	NW_004516469.1	Scaffold1195	35494	GG	AA	1946998954
SNP_P4_155828_35495	NW_004516469.1	Scaffold1195	35495	TT	CC	1946998956
SNP_P4_155830_40151	NW_004516469.1	Scaffold1195	40151	GG	AA	1946998958
SNP_P4_155831_53303	NW_004516469.1	Scaffold1195	53303	GG	AA	1946998960
SNP_P4_155833_64007	NW_004516469.1	Scaffold1195	64007	AA	GG	1946998962
SNP_P4_155834_64064	NW_004516469.1	Scaffold1195	64064	AA	GG	1946998964
SNP_P4_155835_64514	NW_004516469.1	Scaffold1195	64514	TT	CC	1946998966
SNP_P4_155836_64536	NW_004516469.1	Scaffold1195	64536	CC	TT	1946998968
SNP_P4_155837_68735	NW_004516469.1	Scaffold1195	68735	GG	AA	1946998970
SNP_P4_155838_86121	NW_004516469.1	Scaffold1195	86121	AA	GG	1946998972
SNP_P4_155839_91431	NW_004516469.1	Scaffold1195	91431	AA	GG	1946998974
SNP_P4_155840_91461	NW_004516469.1	Scaffold1195	91461	GG	AA	1946998976
SNP_P4_155841_91472	NW_004516469.1	Scaffold1195	91472	CC	TT	1946998978
SNP_P4_155842_91498	NW_004516469.1	Scaffold1195	91498	AA	TT	1946998980
SNP_P4_155843_111926	NW_004516469.1	Scaffold1195	111926	TT	CC	1946998982
SNP_P4_155844_111932	NW_004516469.1	Scaffold1195	111932	AA	TT	1946998984
SNP_P4_155845_2583	NW_004516470.1	Scaffold1196	2583	AA	TT	1946998986
SNP_P4_155846_3307	NW_004516470.1	Scaffold1196	3307	CC	TT	1946998988
SNP_P4_155847_17265	NW_004516470.1	Scaffold1196	17265	AA	TT	1946998990
SNP_P4_155848_19684	NW_004516470.1	Scaffold1196	19684	CC	AA	1946998992
SNP_P4_155849_20074	NW_004516470.1	Scaffold1196	20074	CC	TT	1946998995
SNP_P4_155851_33026	NW_004516470.1	Scaffold1196	33026	GG	AA	1946998997
SNP_P4_155852_37129	NW_004516470.1	Scaffold1196	37129	TT	CC	1946998999
SNP_P4_155853_37137	NW_004516470.1	Scaffold1196	37137	AA	CC	1946999001
SNP_P4_155854_37189	NW_004516470.1	Scaffold1196	37189	TT	CC	1946999003
SNP_P4_155855_37590	NW_004516470.1	Scaffold1196	37590	TT	CC	1946999005
SNP_P4_155856_38665	NW_004516470.1	Scaffold1196	38665	CC	TT	1946999007
SNP_P4_155857_38669	NW_004516470.1	Scaffold1196	38669	CC	AA	1946999009

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_155859_39812	NW_004516470.1	Scaffold1196	39812	AA	GG	1946999013
SNP_P4_155860_40034	NW_004516470.1	Scaffold1196	40034	GG	TT	1946999015
SNP_P4_155861_57278	NW_004516470.1	Scaffold1196	57278	CC	AA	1946999017
SNP_P4_155862_58790	NW_004516470.1	Scaffold1196	58790	TT	GG	1946999019
SNP_P4_155863_69977	NW_004516470.1	Scaffold1196	69977	AA	GG	1946999021
SNP_P4_155865_70878	NW_004516470.1	Scaffold1196	70878	TT	CC	1946999023
SNP_P4_155866_70919	NW_004516470.1	Scaffold1196	70919	TT	CC	1946999025
SNP_P4_155867_78148	NW_004516470.1	Scaffold1196	78148	GG	TT	1946999027
SNP_P4_155868_78506	NW_004516470.1	Scaffold1196	78506	AA	TT	1946999029
SNP_P4_155869_78659	NW_004516470.1	Scaffold1196	78659	AA	GG	1946999031
SNP_P4_155870_78811	NW_004516470.1	Scaffold1196	78811	GG	TT	1946999033
SNP_P4_155871_103843	NW_004516470.1	Scaffold1196	103843	TT	AA	1946999035
SNP_P4_155872_103860	NW_004516470.1	Scaffold1196	103860	CC	AA	1946999037
SNP_P4_155874_106246	NW_004516470.1	Scaffold1196	106246	AA	GG	1946999039
SNP_P4_155875_106805	NW_004516470.1	Scaffold1196	106805	TT	GG	1946999041
SNP_P4_155876_110975	NW_004516470.1	Scaffold1196	110975	CC	GG	1946999043
SNP_P4_155877_111033	NW_004516470.1	Scaffold1196	111033	GG	TT	1946999045
SNP_P4_155878_111597	NW_004516470.1	Scaffold1196	111597	AA	TT	1946999047
SNP_P4_155882_118320	NW_004516470.1	Scaffold1196	118320	GG	AA	1946999049
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SNP_P4_155884_119714	NW_004516470.1	Scaffold1196	119714	AA	GG	1946999053
SNP_P4_155885_119731	NW_004516470.1	Scaffold1196	119731	AA	GG	1946999055
SNP_P4_155886_120004	NW_004516470.1	Scaffold1196	120004	AA	GG	1946999057
SNP_P4_155887_120036	NW_004516470.1	Scaffold1196	120036	AA	GG	1946999059
SNP_P4_155888_120769	NW_004516470.1	Scaffold1196	120769	GG	AA	1946999061
SNP_P4_155889_125863	NW_004516470.1	Scaffold1196	125863	GG	AA	1946999063
SNP_P4_155890_125866	NW_004516470.1	Scaffold1196	125866	CC	TT	1946999065
SNP_P4_155891_126513	NW_004516470.1	Scaffold1196	126513	AA	GG	1946999067
SNP_P4_155893_134694	NW_004516470.1	Scaffold1196	134694	AA	TT	1946999069
SNP_P4_155894_144459	NW_004516470.1	Scaffold1196	144459	TT	AA	1946999071
SNP_P4_155895_144738	NW_004516470.1	Scaffold1196	144738	CC	TT	1946999073
SNP_P4_155896_144755	NW_004516470.1	Scaffold1196	144755	TT	AA	1946999075
SNP_P4_155897_147246	NW_004516470.1	Scaffold1196	147246	CC	TT	1946999077
SNP_P4_155898_158190	NW_004516470.1	Scaffold1196	158190	TT	AA	1946999079
SNP_P4_155899_165515	NW_004516470.1	Scaffold1196	165515	GG	TT	1946999081
SNP_P4_155901_172038	NW_004516470.1	Scaffold1196	172038	CC	AA	1946999083
SNP_P4_155902_173002	NW_004516470.1	Scaffold1196	173002	TT	CC	1946999085
SNP_P4_155903_180809	NW_004516470.1	Scaffold1196	180809	AA	GG	1946999087
SNP_P4_155904_183621	NW_004516470.1	Scaffold1196	183621	AA	GG	1946999089
SNP_P4_155905_183687	NW_004516470.1	Scaffold1196	183687	AA	GG	1946999091
SNP_P4_155906_184212	NW_004516470.1	Scaffold1196	184212	AA	TT	1946999093

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_155908_193226	NW_004516470.1	Scaffold1196	193226	TT	CC	1946999097
SNP_P4_155909_193304	NW_004516470.1	Scaffold1196	193304	AA	GG	1946999099
SNP_P4_155910_194712	NW_004516470.1	Scaffold1196	194712	CC	TT	1946999101
SNP_P4_155911_205914	NW_004516470.1	Scaffold1196	205914	CC	AA	1946999103
SNP_P4_155912_205962	NW_004516470.1	Scaffold1196	205962	CC	AA	1946999105
SNP_P4_155913_206115	NW_004516470.1	Scaffold1196	206115	TT	AA	1946999107
SNP_P4_155914_206224	NW_004516470.1	Scaffold1196	206224	AA	GG	1946999109
SNP_P4_155916_206789	NW_004516470.1	Scaffold1196	206789	GG	TT	1946999111
SNP_P4_155917_207287	NW_004516470.1	Scaffold1196	207287	AA	GG	1946999113
SNP_P4_155918_207588	NW_004516470.1	Scaffold1196	207588	TT	AA	1946999115
SNP_P4_155919_957	NW_004516471.1	Scaffold1197	957	GG	AA	1946999117
SNP_P4_155920_974	NW_004516471.1	Scaffold1197	974	TT	GG	1946999119
SNP_P4_155921_1249	NW_004516471.1	Scaffold1197	1249	CC	TT	1946999121
SNP_P4_155922_1396	NW_004516471.1	Scaffold1197	1396	AA	TT	1946999123
SNP_P4_155923_4896	NW_004516471.1	Scaffold1197	4896	GG	AA	1946999125
SNP_P4_155924_4911	NW_004516471.1	Scaffold1197	4911	AA	CC	1946999127
SNP_P4_155925_4963	NW_004516471.1	Scaffold1197	4963	CC	AA	1946999129
SNP_P4_155926_4984	NW_004516471.1	Scaffold1197	4984	CC	TT	1946999131
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SNP_P4_155929_5190	NW_004516471.1	Scaffold1197	5190	TT	CC	1946999135
SNP_P4_155930_5244	NW_004516471.1	Scaffold1197	5244	AA	CC	1946999137
SNP_P4_155931_5271	NW_004516471.1	Scaffold1197	5271	TT	AA	1946999139
SNP_P4_155932_5272	NW_004516471.1	Scaffold1197	5272	CC	AA	1946999141
SNP_P4_155933_5326	NW_004516471.1	Scaffold1197	5326	GG	AA	1946999143
SNP_P4_155934_5332	NW_004516471.1	Scaffold1197	5332	AA	GG	1946999145
SNP_P4_155935_5352	NW_004516471.1	Scaffold1197	5352	AA	GG	1946999147
SNP_P4_155936_5407	NW_004516471.1	Scaffold1197	5407	AA	GG	1946999149
SNP_P4_155937_5411	NW_004516471.1	Scaffold1197	5411	GG	AA	1946999151
SNP_P4_155938_5508	NW_004516471.1	Scaffold1197	5508	GG	AA	1946999153
SNP_P4_155939_5595	NW_004516471.1	Scaffold1197	5595	GG	AA	1946999155
SNP_P4_155940_5615	NW_004516471.1	Scaffold1197	5615	AA	GG	1946999157
SNP_P4_155941_5655	NW_004516471.1	Scaffold1197	5655	GG	TT	1946999159
SNP_P4_155942_5681	NW_004516471.1	Scaffold1197	5681	TT	GG	1946999161
SNP_P4_155943_5744	NW_004516471.1	Scaffold1197	5744	AA	TT	1946999163
SNP_P4_155944_5879	NW_004516471.1	Scaffold1197	5879	TT	AA	1946999165
SNP_P4_155945_5880	NW_004516471.1	Scaffold1197	5880	GG	TT	1946999167
SNP_P4_155946_5894	NW_004516471.1	Scaffold1197	5894	CC	AA	1946999169
SNP_P4_155947_6106	NW_004516471.1	Scaffold1197	6106	TT	CC	1946999171
SNP_P4_155948_6111	NW_004516471.1	Scaffold1197	6111	AA	GG	1946999173
SNP_P4_155949_6124	NW_004516471.1	Scaffold1197	6124	GG	TT	1946999175
SNP_P4_155950_6140	NW_004516471.1	Scaffold1197	6140	TT	CC	1946999177

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_155952_6243	NW_004516471.1	Scaffold1197	6243	TT	CC	1946999181
SNP_P4_155953_9975	NW_004516471.1	Scaffold1197	9975	TT	CC	1946999183
SNP_P4_155955_10299	NW_004516471.1	Scaffold1197	10299	GG	AA	1946999185
SNP_P4_155956_23138	NW_004516471.1	Scaffold1197	23138	TT	AA	1946999187
SNP_P4_155957_23146	NW_004516471.1	Scaffold1197	23146	TT	GG	1946999189
SNP_P4_155958_23242	NW_004516471.1	Scaffold1197	23242	TT	AA	1946999191
SNP_P4_155959_25833	NW_004516471.1	Scaffold1197	25833	TT	CC	1946999193
SNP_P4_155960_25835	NW_004516471.1	Scaffold1197	25835	TT	AA	1946999195
SNP_P4_155961_26193	NW_004516471.1	Scaffold1197	26193	CC	TT	1946999197
SNP_P4_155963_28092	NW_004516471.1	Scaffold1197	28092	AA	GG	1946999199
SNP_P4_155964_28111	NW_004516471.1	Scaffold1197	28111	GG	AA	1946999201
SNP_P4_155965_38654	NW_004516471.1	Scaffold1197	38654	TT	CC	1946999203
SNP_P4_155966_41973	NW_004516471.1	Scaffold1197	41973	TT	GG	1946999205
SNP_P4_155967_44357	NW_004516471.1	Scaffold1197	44357	AA	CC	1946999207
SNP_P4_155968_44618	NW_004516471.1	Scaffold1197	44618	GG	AA	1946999209
SNP_P4_155969_48285	NW_004516471.1	Scaffold1197	48285	AA	GG	1946999211
SNP_P4_155970_58181	NW_004516471.1	Scaffold1197	58181	AA	TT	1946999213
SNP_P4_155971_58202	NW_004516471.1	Scaffold1197	58202	GG	AA	1946999215
SNP_P4_155973_58296	NW_004516471.1	Scaffold1197	58296	GG	AA	1946999217
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SNP_P4_155975_58522	NW_004516471.1	Scaffold1197	58522	CC	TT	1946999221
SNP_P4_155976_58544	NW_004516471.1	Scaffold1197	58544	AA	TT	1946999223
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SNP_P4_155979_58612	NW_004516471.1	Scaffold1197	58612	GG	AA	1946999229
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SNP_P4_155982_58641	NW_004516471.1	Scaffold1197	58641	CC	AA	1946999235
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SNP_P4_155985_82922	NW_004516471.1	Scaffold1197	82922	GG	TT	1946999239
SNP_P4_155986_86741	NW_004516471.1	Scaffold1197	86741	TT	CC	1946999241
SNP_P4_155987_86742	NW_004516471.1	Scaffold1197	86742	CC	TT	1946999243
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SNP_P4_155990_87425	NW_004516471.1	Scaffold1197	87425	TT	AA	1946999249
SNP_P4_155991_104110	NW_004516471.1	Scaffold1197	104110	CC	AA	1946999251
SNP_P4_155993_136559	NW_004516471.1	Scaffold1197	136559	GG	AA	1946999253
SNP_P4_155994_142099	NW_004516471.1	Scaffold1197	142099	TT	CC	1946999255
SNP_P4_155995_142109	NW_004516471.1	Scaffold1197	142109	TT	AA	1946999257
SNP_P4_155996_142163	NW_004516471.1	Scaffold1197	142163	CC	TT	1946999259
SNP_P4_155997_142168	NW_004516471.1	Scaffold1197	142168	GG	CC	1946999261

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SNP_P4_155999_142202	NW_004516471.1	Scaffold1197	142202	CC	AA	1946999265
SNP_P4_156000_142218	NW_004516471.1	Scaffold1197	142218	TT	AA	1946999267
SNP_P4_156001_142412	NW_004516471.1	Scaffold1197	142412	GG	CC	1946999269
SNP_P4_156002_142420	NW_004516471.1	Scaffold1197	142420	GG	TT	1946999271
SNP_P4_156004_142464	NW_004516471.1	Scaffold1197	142464	AA	GG	1946999273
SNP_P4_156005_146253	NW_004516471.1	Scaffold1197	146253	GG	AA	1946999275
SNP_P4_156006_146262	NW_004516471.1	Scaffold1197	146262	GG	TT	1946999277
SNP_P4_156007_146440	NW_004516471.1	Scaffold1197	146440	CC	AA	1946999279
SNP_P4_156008_146577	NW_004516471.1	Scaffold1197	146577	TT	AA	1946999281
SNP_P4_156009_146801	NW_004516471.1	Scaffold1197	146801	TT	AA	1946999283
SNP_P4_156010_151652	NW_004516471.1	Scaffold1197	151652	GG	AA	1946999285
SNP_P4_156011_156030	NW_004516471.1	Scaffold1197	156030	GG	CC	1946999287
SNP_P4_156013_173109	NW_004516471.1	Scaffold1197	173109	GG	AA	1946999289
SNP_P4_156014_173153	NW_004516471.1	Scaffold1197	173153	AA	TT	1946999291
SNP_P4_156015_173164	NW_004516471.1	Scaffold1197	173164	AA	CC	1946999293
SNP_P4_156017_186224	NW_004516471.1	Scaffold1197	186224	TT	CC	1946999295
SNP_P4_156018_186736	NW_004516471.1	Scaffold1197	186736	TT	CC	1946999297
SNP_P4_156020_191663	NW_004516471.1	Scaffold1197	191663	AA	GG	1946999299
SNP_P4_156021_209377	NW_004516471.1	Scaffold1197	209377	GG	TT	1946999301
SNP_P4_156022_227362	NW_004516471.1	Scaffold1197	227362	AA	GG	1946999303
SNP_P4_156023_231226	NW_004516471.1	Scaffold1197	231226	TT	CC	1946999305
SNP_P4_156024_231245	NW_004516471.1	Scaffold1197	231245	GG	CC	1946999307
SNP_P4_156025_231267	NW_004516471.1	Scaffold1197	231267	AA	GG	1946999309
SNP_P4_156026_231511	NW_004516471.1	Scaffold1197	231511	TT	GG	1946999311
SNP_P4_156027_231576	NW_004516471.1	Scaffold1197	231576	GG	AA	1946999313
SNP_P4_156028_231787	NW_004516471.1	Scaffold1197	231787	CC	TT	1946999315
SNP_P4_156029_237229	NW_004516471.1	Scaffold1197	237229	GG	AA	1946999317
SNP_P4_156030_237241	NW_004516471.1	Scaffold1197	237241	GG	TT	1946999319
SNP_P4_156033_248318	NW_004516471.1	Scaffold1197	248318	CC	AA	1946999321
SNP_P4_156034_248598	NW_004516471.1	Scaffold1197	248598	TT	CC	1946999323
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SNP_P4_156037_268200	NW_004516471.1	Scaffold1197	268200	TT	AA	1946999329
SNP_P4_156038_268520	NW_004516471.1	Scaffold1197	268520	AA	GG	1946999331
SNP_P4_156039_268632	NW_004516471.1	Scaffold1197	268632	AA	CC	1946999333
SNP_P4_156040_269576	NW_004516471.1	Scaffold1197	269576	AA	GG	1946999335
SNP_P4_156041_269580	NW_004516471.1	Scaffold1197	269580	AA	GG	1946999337
SNP_P4_156042_359641	NW_004516471.1	Scaffold1197	359641	AA	TT	1946999339
SNP_P4_156043_369634	NW_004516471.1	Scaffold1197	369634	TT	GG	1946999341
SNP_P4_156044_370015	NW_004516471.1	Scaffold1197	370015	GG	AA	1946999343
SNP_P4_156045_380421	NW_004516471.1	Scaffold1197	380421	TT	GG	1946999345

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_156048_380661	NW_004516471.1	Scaffold1197	380661	CC	TT	1946999351
SNP_P4_156049_380663	NW_004516471.1	Scaffold1197	380663	GG	AA	1946999353
SNP_P4_156050_380701	NW_004516471.1	Scaffold1197	380701	CC	TT	1946999355
SNP_P4_156051_380702	NW_004516471.1	Scaffold1197	380702	CC	TT	1946999357
SNP_P4_156052_384910	NW_004516471.1	Scaffold1197	384910	CC	TT	1946999359
SNP_P4_156053_385027	NW_004516471.1	Scaffold1197	385027	TT	CC	1946999361
SNP_P4_156054_405878	NW_004516471.1	Scaffold1197	405878	GG	AA	1946999363
SNP_P4_156055_427710	NW_004516471.1	Scaffold1197	427710	CC	AA	1946999365
SNP_P4_156056_432950	NW_004516471.1	Scaffold1197	432950	TT	AA	1946999367
SNP_P4_156057_433819	NW_004516471.1	Scaffold1197	433819	AA	CC	1946999369
SNP_P4_156058_439519	NW_004516471.1	Scaffold1197	439519	GG	AA	1946999371
SNP_P4_156059_447776	NW_004516471.1	Scaffold1197	447776	GG	TT	1946999373
SNP_P4_156060_447812	NW_004516471.1	Scaffold1197	447812	TT	CC	1946999375
SNP_P4_156061_447833	NW_004516471.1	Scaffold1197	447833	TT	CC	1946999377
SNP_P4_156062_447863	NW_004516471.1	Scaffold1197	447863	AA	GG	1946999379
SNP_P4_156063_447900	NW_004516471.1	Scaffold1197	447900	AA	CC	1946999381
SNP_P4_156064_447909	NW_004516471.1	Scaffold1197	447909	GG	CC	1946999383
SNP_P4_156065_447940	NW_004516471.1	Scaffold1197	447940	GG	TT	1946999385
SNP_P4_156066_447991	NW_004516471.1	Scaffold1197	447991	AA	GG	1946999387
SNP_P4_156068_488017	NW_004516471.1	Scaffold1197	488017	AA	GG	1946999389
SNP_P4_156069_489650	NW_004516471.1	Scaffold1197	489650	GG	AA	1946999391
SNP_P4_156070_492556	NW_004516471.1	Scaffold1197	492556	CC	GG	1946999393
SNP_P4_156071_510635	NW_004516471.1	Scaffold1197	510635	TT	CC	1946999395
SNP_P4_156072_510655	NW_004516471.1	Scaffold1197	510655	GG	AA	1946999397
SNP_P4_156073_510674	NW_004516471.1	Scaffold1197	510674	TT	CC	1946999399
SNP_P4_156074_510709	NW_004516471.1	Scaffold1197	510709	CC	TT	1946999401
SNP_P4_156075_510760	NW_004516471.1	Scaffold1197	510760	TT	CC	1946999403
SNP_P4_156076_510797	NW_004516471.1	Scaffold1197	510797	AA	GG	1946999405
SNP_P4_156077_510827	NW_004516471.1	Scaffold1197	510827	TT	CC	1946999407
SNP_P4_156078_511060	NW_004516471.1	Scaffold1197	511060	AA	TT	1946999409
SNP_P4_156079_511145	NW_004516471.1	Scaffold1197	511145	TT	AA	1946999411
SNP_P4_156080_511169	NW_004516471.1	Scaffold1197	511169	GG	AA	1946999413
SNP_P4_156081_511189	NW_004516471.1	Scaffold1197	511189	GG	TT	1946999415
SNP_P4_156082_511190	NW_004516471.1	Scaffold1197	511190	AA	GG	1946999417
SNP_P4_156083_511227	NW_004516471.1	Scaffold1197	511227	CC	GG	1946999419
SNP_P4_156084_511235	NW_004516471.1	Scaffold1197	511235	TT	GG	1946999421
SNP_P4_156085_520563	NW_004516471.1	Scaffold1197	520563	CC	TT	1946999423
SNP_P4_156086_520622	NW_004516471.1	Scaffold1197	520622	GG	TT	1946999425
SNP_P4_156087_540953	NW_004516471.1	Scaffold1197	540953	AA	TT	1946999427
SNP_P4_156089_541188	NW_004516471.1	Scaffold1197	541188	CC	TT	1946999429

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_156093_530	NW_004516472.1	Scaffold1198	530	TT	CC	1946999435
SNP_P4_156094_590	NW_004516472.1	Scaffold1198	590	AA	CC	1946999437
SNP_P4_156095_616	NW_004516472.1	Scaffold1198	616	CC	AA	1946999439
SNP_P4_156096_772	NW_004516472.1	Scaffold1198	772	CC	TT	1946999441
SNP_P4_156097_6440	NW_004516473.1	Scaffold1202	6440	TT	GG	1946999443
SNP_P4_156099_22843	NW_004516473.1	Scaffold1202	22843	TT	CC	1946999445
SNP_P4_156101_29172	NW_004516473.1	Scaffold1202	29172	TT	CC	1946999447
SNP_P4_156105_107962	NW_004516473.1	Scaffold1202	107962	GG	AA	1946999449
SNP_P4_156106_169132	NW_004516473.1	Scaffold1202	169132	TT	CC	1946999451
SNP_P4_156107_176908	NW_004516473.1	Scaffold1202	176908	AA	TT	1946999453
SNP_P4_156108_177003	NW_004516473.1	Scaffold1202	177003	CC	TT	1946999455
SNP_P4_156109_177004	NW_004516473.1	Scaffold1202	177004	CC	GG	1946999457
SNP_P4_156110_177022	NW_004516473.1	Scaffold1202	177022	CC	GG	1946999459
SNP_P4_156111_177025	NW_004516473.1	Scaffold1202	177025	TT	CC	1946999461
SNP_P4_156112_177033	NW_004516473.1	Scaffold1202	177033	TT	CC	1946999463
SNP_P4_156113_177036	NW_004516473.1	Scaffold1202	177036	TT	GG	1946999465
SNP_P4_156114_177043	NW_004516473.1	Scaffold1202	177043	TT	CC	1946999467
SNP_P4_156116_177588	NW_004516473.1	Scaffold1202	177588	TT	CC	1946999469
SNP_P4_156117_177601	NW_004516473.1	Scaffold1202	177601	AA	GG	1946999471
SNP_P4_156118_177604	NW_004516473.1	Scaffold1202	177604	AA	GG	1946999473
SNP_P4_156119_178470	NW_004516473.1	Scaffold1202	178470	TT	CC	1946999475
SNP_P4_156120_178482	NW_004516473.1	Scaffold1202	178482	AA	GG	1946999477
SNP_P4_156121_178507	NW_004516473.1	Scaffold1202	178507	TT	GG	1946999479
SNP_P4_156122_178509	NW_004516473.1	Scaffold1202	178509	GG	AA	1946999481
SNP_P4_156123_178560	NW_004516473.1	Scaffold1202	178560	TT	CC	1946999483
SNP_P4_156124_178562	NW_004516473.1	Scaffold1202	178562	TT	GG	1946999485
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SNP_P4_156126_178639	NW_004516473.1	Scaffold1202	178639	GG	TT	1946999489
SNP_P4_156127_178644	NW_004516473.1	Scaffold1202	178644	AA	GG	1946999490
SNP_P4_156128_178655	NW_004516473.1	Scaffold1202	178655	TT	CC	1946999492
SNP_P4_156129_178715	NW_004516473.1	Scaffold1202	178715	TT	CC	1946999494
SNP_P4_156130_178720	NW_004516473.1	Scaffold1202	178720	TT	CC	1946999496
SNP_P4_156131_178721	NW_004516473.1	Scaffold1202	178721	TT	GG	1946999498
SNP_P4_156132_178739	NW_004516473.1	Scaffold1202	178739	AA	CC	1946999500
SNP_P4_156133_178774	NW_004516473.1	Scaffold1202	178774	TT	GG	1946999502
SNP_P4_156134_178845	NW_004516473.1	Scaffold1202	178845	TT	AA	1946999504
SNP_P4_156135_178880	NW_004516473.1	Scaffold1202	178880	TT	CC	1946999506
SNP_P4_156136_178898	NW_004516473.1	Scaffold1202	178898	TT	CC	1946999508
SNP_P4_156137_178917	NW_004516473.1	Scaffold1202	178917	AA	GG	1946999510
SNP_P4_156138_178927	NW_004516473.1	Scaffold1202	178927	CC	GG	1946999512

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_156141_179056	NW_004516473.1	Scaffold1202	179056	AA	GG	1946999518
SNP_P4_156142_179069	NW_004516473.1	Scaffold1202	179069	AA	GG	1946999520
SNP_P4_156143_179089	NW_004516473.1	Scaffold1202	179089	TT	CC	1946999522
SNP_P4_156144_179095	NW_004516473.1	Scaffold1202	179095	AA	GG	1946999524
SNP_P4_156145_179096	NW_004516473.1	Scaffold1202	179096	AA	GG	1946999526
SNP_P4_156146_179098	NW_004516473.1	Scaffold1202	179098	GG	TT	1946999528
SNP_P4_156147_179127	NW_004516473.1	Scaffold1202	179127	AA	GG	1946999530
SNP_P4_156148_179148	NW_004516473.1	Scaffold1202	179148	TT	CC	1946999532
SNP_P4_156149_179152	NW_004516473.1	Scaffold1202	179152	AA	GG	1946999534
SNP_P4_156150_179197	NW_004516473.1	Scaffold1202	179197	CC	GG	1946999536
SNP_P4_156151_179220	NW_004516473.1	Scaffold1202	179220	TT	CC	1946999538
SNP_P4_156152_179221	NW_004516473.1	Scaffold1202	179221	GG	CC	1946999540
SNP_P4_156153_179272	NW_004516473.1	Scaffold1202	179272	AA	GG	1946999542
SNP_P4_156154_179290	NW_004516473.1	Scaffold1202	179290	AA	GG	1946999544
SNP_P4_156155_179334	NW_004516473.1	Scaffold1202	179334	GG	AA	1946999546
SNP_P4_156157_179488	NW_004516473.1	Scaffold1202	179488	TT	GG	1946999548
SNP_P4_156158_179498	NW_004516473.1	Scaffold1202	179498	AA	CC	1946999550
SNP_P4_156159_179503	NW_004516473.1	Scaffold1202	179503	AA	GG	1946999552
SNP_P4_156160_179517	NW_004516473.1	Scaffold1202	179517	AA	GG	1946999554
SNP_P4_156161_179556	NW_004516473.1	Scaffold1202	179556	TT	GG	1946999556
SNP_P4_156162_179574	NW_004516473.1	Scaffold1202	179574	CC	TT	1946999558
SNP_P4_156164_179622	NW_004516473.1	Scaffold1202	179622	AA	GG	1946999560
SNP_P4_156165_179657	NW_004516473.1	Scaffold1202	179657	AA	GG	1946999562
SNP_P4_156166_179659	NW_004516473.1	Scaffold1202	179659	CC	GG	1946999564
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SNP_P4_156171_179752	NW_004516473.1	Scaffold1202	179752	AA	GG	1946999574
SNP_P4_156172_179754	NW_004516473.1	Scaffold1202	179754	CC	GG	1946999576
SNP_P4_156173_179781	NW_004516473.1	Scaffold1202	179781	AA	GG	1946999578
SNP_P4_156174_179808	NW_004516473.1	Scaffold1202	179808	AA	GG	1946999580
SNP_P4_156175_183073	NW_004516473.1	Scaffold1202	183073	AA	TT	1946999582
SNP_P4_156176_183099	NW_004516473.1	Scaffold1202	183099	CC	AA	1946999584
SNP_P4_156177_183219	NW_004516473.1	Scaffold1202	183219	GG	AA	1946999586
SNP_P4_156178_183258	NW_004516473.1	Scaffold1202	183258	TT	AA	1946999588
SNP_P4_156179_183262	NW_004516473.1	Scaffold1202	183262	CC	TT	1946999590
SNP_P4_156180_183354	NW_004516473.1	Scaffold1202	183354	GG	AA	1946999592
SNP_P4_156181_183360	NW_004516473.1	Scaffold1202	183360	TT	GG	1946999593
SNP_P4_156182_183364	NW_004516473.1	Scaffold1202	183364	GG	TT	1946999595

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_156184_183386	NW_004516473.1	Scaffold1202	183386	AA	CC	1946999599
SNP_P4_156185_183458	NW_004516473.1	Scaffold1202	183458	TT	AA	1946999601
SNP_P4_156187_183482	NW_004516473.1	Scaffold1202	183482	AA	GG	1946999603
SNP_P4_156188_183631	NW_004516473.1	Scaffold1202	183631	TT	AA	1946999605
SNP_P4_156189_183660	NW_004516473.1	Scaffold1202	183660	AA	GG	1946999607
SNP_P4_156190_183664	NW_004516473.1	Scaffold1202	183664	TT	CC	1946999609
SNP_P4_156191_183675	NW_004516473.1	Scaffold1202	183675	TT	CC	1946999611
SNP_P4_156192_183751	NW_004516473.1	Scaffold1202	183751	AA	CC	1946999613
SNP_P4_156193_183752	NW_004516473.1	Scaffold1202	183752	CC	TT	1946999615
SNP_P4_156194_183755	NW_004516473.1	Scaffold1202	183755	AA	GG	1946999616
SNP_P4_156195_190770	NW_004516473.1	Scaffold1202	190770	AA	CC	1946999617
SNP_P4_156196_190791	NW_004516473.1	Scaffold1202	190791	AA	TT	1946999618
SNP_P4_156197_190857	NW_004516473.1	Scaffold1202	190857	CC	AA	1946999620
SNP_P4_156198_190899	NW_004516473.1	Scaffold1202	190899	GG	TT	1946999621
SNP_P4_156199_190908	NW_004516473.1	Scaffold1202	190908	CC	AA	1946999622
SNP_P4_156200_190913	NW_004516473.1	Scaffold1202	190913	AA	GG	1946999623
SNP_P4_156201_190998	NW_004516473.1	Scaffold1202	190998	CC	TT	1946999624
SNP_P4_156202_196826	NW_004516473.1	Scaffold1202	196826	CC	TT	1946999625
SNP_P4_156203_197774	NW_004516473.1	Scaffold1202	197774	TT	CC	1946999626
SNP_P4_156204_204206	NW_004516473.1	Scaffold1202	204206	GG	CC	1946999627
SNP_P4_156205_211697	NW_004516473.1	Scaffold1202	211697	CC	TT	1946999628
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SNP_P4_156207_227640	NW_004516473.1	Scaffold1202	227640	AA	GG	1946999630
SNP_P4_156208_227644	NW_004516473.1	Scaffold1202	227644	AA	TT	1946999631
SNP_P4_156209_227685	NW_004516473.1	Scaffold1202	227685	GG	AA	1946999632
SNP_P4_156210_227688	NW_004516473.1	Scaffold1202	227688	CC	TT	1946999633
SNP_P4_156211_227716	NW_004516473.1	Scaffold1202	227716	GG	TT	1946999634
SNP_P4_156212_227809	NW_004516473.1	Scaffold1202	227809	AA	GG	1946999635
SNP_P4_156213_227852	NW_004516473.1	Scaffold1202	227852	GG	TT	1946999636
SNP_P4_156214_227903	NW_004516473.1	Scaffold1202	227903	GG	AA	1946999637
SNP_P4_156215_227957	NW_004516473.1	Scaffold1202	227957	CC	AA	1946999638
SNP_P4_156216_227971	NW_004516473.1	Scaffold1202	227971	AA	GG	1946999639
SNP_P4_156217_228080	NW_004516473.1	Scaffold1202	228080	CC	AA	1946999640
SNP_P4_156218_228137	NW_004516473.1	Scaffold1202	228137	TT	CC	1946999641
SNP_P4_156219_228256	NW_004516473.1	Scaffold1202	228256	TT	CC	1946999642
SNP_P4_156220_228289	NW_004516473.1	Scaffold1202	228289	GG	CC	1946999643
SNP_P4_156221_228290	NW_004516473.1	Scaffold1202	228290	CC	GG	1946999644
SNP_P4_156222_228320	NW_004516473.1	Scaffold1202	228320	GG	CC	1946999645
SNP_P4_156223_228547	NW_004516473.1	Scaffold1202	228547	CC	AA	1946999646
SNP_P4_156224_228654	NW_004516473.1	Scaffold1202	228654	CC	TT	1946999647
SNP_P4_156225_231000	NW_004516473.1	Scaffold1202	231000	GG	CC	1946999648

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_156226_247497	NW_004516473.1	Scaffold1202	247497	CC	TT	1946999649
SNP_P4_156227_251141	NW_004516473.1	Scaffold1202	251141	GG	AA	1946999650
SNP_P4_156228_251170	NW_004516473.1	Scaffold1202	251170	GG	AA	1946999651
SNP_P4_156230_254980	NW_004516473.1	Scaffold1202	254980	AA	CC	1946999652
SNP_P4_156231_264884	NW_004516473.1	Scaffold1202	264884	CC	TT	1946999653
SNP_P4_156232_276905	NW_004516473.1	Scaffold1202	276905	TT	CC	1946999655
SNP_P4_156233_281328	NW_004516473.1	Scaffold1202	281328	TT	CC	1946999656
SNP_P4_156234_284610	NW_004516473.1	Scaffold1202	284610	TT	GG	1946999658
SNP_P4_156235_289014	NW_004516473.1	Scaffold1202	289014	GG	CC	1946999660
SNP_P4_156236_289383	NW_004516473.1	Scaffold1202	289383	GG	AA	1946999662
SNP_P4_156237_289405	NW_004516473.1	Scaffold1202	289405	AA	CC	1946999664
SNP_P4_156238_289453	NW_004516473.1	Scaffold1202	289453	AA	GG	1946999666
SNP_P4_156240_267	NW_004516474.1	Scaffold1206	267	GG	AA	1946999668
SNP_P4_156241_463	NW_004516474.1	Scaffold1206	463	CC	TT	1946999670
SNP_P4_156242_616	NW_004516474.1	Scaffold1206	616	GG	AA	1946999672
SNP_P4_156243_653	NW_004516474.1	Scaffold1206	653	GG	CC	1946999674
SNP_P4_156244_681	NW_004516474.1	Scaffold1206	681	AA	GG	1946999676
SNP_P4_156245_709	NW_004516474.1	Scaffold1206	709	AA	GG	1946999678
SNP_P4_156246_756	NW_004516474.1	Scaffold1206	756	GG	CC	1946999680
SNP_P4_156247_768	NW_004516475.1	Scaffold1207	768	AA	GG	1946999682
SNP_P4_156248_774	NW_004516475.1	Scaffold1207	774	CC	GG	1946999684
SNP_P4_156249_806	NW_004516475.1	Scaffold1207	806	CC	AA	1946999686
SNP_P4_156250_848	NW_004516475.1	Scaffold1207	848	TT	CC	1946999688
SNP_P4_156251_1416	NW_004516475.1	Scaffold1207	1416	AA	GG	1946999690
SNP_P4_156252_4542	NW_004516475.1	Scaffold1207	4542	TT	AA	1946999692
SNP_P4_156254_10153	NW_004516479.1	Scaffold1215	10153	TT	AA	1946999694
SNP_P4_156255_12541	NW_004516479.1	Scaffold1215	12541	AA	CC	1946999696
SNP_P4_156256_12612	NW_004516479.1	Scaffold1215	12612	AA	GG	1946999698
SNP_P4_156257_12627	NW_004516479.1	Scaffold1215	12627	CC	AA	1946999700
SNP_P4_156259_12752	NW_004516479.1	Scaffold1215	12752	TT	CC	1946999702
SNP_P4_156260_12824	NW_004516479.1	Scaffold1215	12824	TT	CC	1946999704
SNP_P4_156261_12891	NW_004516479.1	Scaffold1215	12891	GG	TT	1946999706
SNP_P4_156262_13026	NW_004516479.1	Scaffold1215	13026	AA	GG	1946999708
SNP_P4_156263_13045	NW_004516479.1	Scaffold1215	13045	GG	AA	1946999710
SNP_P4_156264_13100	NW_004516479.1	Scaffold1215	13100	TT	CC	1946999712
SNP_P4_156265_13129	NW_004516479.1	Scaffold1215	13129	CC	TT	1946999714
SNP_P4_156266_13136	NW_004516479.1	Scaffold1215	13136	TT	GG	1946999716
SNP_P4_156267_13151	NW_004516479.1	Scaffold1215	13151	AA	GG	1946999718
SNP_P4_156268_13249	NW_004516479.1	Scaffold1215	13249	GG	AA	1946999720
SNP_P4_156269_13351	NW_004516479.1	Scaffold1215	13351	GG	AA	1946999722
SNP_P4_156270_13353	NW_004516479.1	Scaffold1215	13353	TT	CC	1946999724
SNP_P4_156271_13398	NW_004516479.1	Scaffold1215	13398	TT	CC	1946999726

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_156272_13482	NW_004516479.1	Scaffold1215	13482	GG	TT	1946999728
SNP_P4_156273_13495	NW_004516479.1	Scaffold1215	13495	GG	TT	1946999730
SNP_P4_156274_13539	NW_004516479.1	Scaffold1215	13539	AA	GG	1946999732
SNP_P4_156275_13610	NW_004516479.1	Scaffold1215	13610	GG	AA	1946999734
SNP_P4_156277_13674	NW_004516479.1	Scaffold1215	13674	CC	TT	1946999736
SNP_P4_156278_13746	NW_004516479.1	Scaffold1215	13746	AA	TT	1946999738
SNP_P4_156279_13794	NW_004516479.1	Scaffold1215	13794	TT	GG	1946999740
SNP_P4_156280_13798	NW_004516479.1	Scaffold1215	13798	AA	GG	1946999742
SNP_P4_156281_13827	NW_004516479.1	Scaffold1215	13827	AA	TT	1946999744
SNP_P4_156282_13845	NW_004516479.1	Scaffold1215	13845	CC	AA	1946999746
SNP_P4_156283_13850	NW_004516479.1	Scaffold1215	13850	GG	CC	1946999748
SNP_P4_156284_14031	NW_004516479.1	Scaffold1215	14031	CC	TT	1946999750
SNP_P4_156286_14080	NW_004516479.1	Scaffold1215	14080	CC	TT	1946999752
SNP_P4_156287_14098	NW_004516479.1	Scaffold1215	14098	AA	GG	1946999754
SNP_P4_156288_14160	NW_004516479.1	Scaffold1215	14160	TT	CC	1946999756
SNP_P4_156289_14161	NW_004516479.1	Scaffold1215	14161	GG	AA	1946999758
SNP_P4_156290_14207	NW_004516479.1	Scaffold1215	14207	TT	GG	1946999760
SNP_P4_156291_14309	NW_004516479.1	Scaffold1215	14309	TT	CC	1946999762
SNP_P4_156292_14340	NW_004516479.1	Scaffold1215	14340	TT	CC	1946999764
SNP_P4_156293_14357	NW_004516479.1	Scaffold1215	14357	AA	TT	1946999766
SNP_P4_156294_14405	NW_004516479.1	Scaffold1215	14405	GG	AA	1946999768
SNP_P4_156295_14465	NW_004516479.1	Scaffold1215	14465	CC	AA	1946999770
SNP_P4_156296_14563	NW_004516479.1	Scaffold1215	14563	AA	TT	1946999772
SNP_P4_156297_14634	NW_004516479.1	Scaffold1215	14634	GG	TT	1946999774
SNP_P4_156298_14694	NW_004516479.1	Scaffold1215	14694	GG	AA	1946999776
SNP_P4_156299_16521	NW_004516479.1	Scaffold1215	16521	CC	TT	1946999778
SNP_P4_156300_16922	NW_004516479.1	Scaffold1215	16922	CC	AA	1946999780
SNP_P4_156301_16925	NW_004516479.1	Scaffold1215	16925	AA	TT	1946999782
SNP_P4_156303_16943	NW_004516479.1	Scaffold1215	16943	TT	AA	1946999784
SNP_P4_156304_16944	NW_004516479.1	Scaffold1215	16944	AA	TT	1946999786
SNP_P4_156305_16948	NW_004516479.1	Scaffold1215	16948	GG	TT	1946999788
SNP_P4_156306_17780	NW_004516479.1	Scaffold1215	17780	TT	AA	1946999790
SNP_P4_156307_17917	NW_004516479.1	Scaffold1215	17917	CC	TT	1946999792
SNP_P4_156308_17919	NW_004516479.1	Scaffold1215	17919	CC	TT	1946999794
SNP_P4_156309_17928	NW_004516479.1	Scaffold1215	17928	TT	CC	1946999796
SNP_P4_156310_17941	NW_004516479.1	Scaffold1215	17941	AA	CC	1946999798
SNP_P4_156311_18177	NW_004516479.1	Scaffold1215	18177	GG	AA	1946999800
SNP_P4_156312_18301	NW_004516479.1	Scaffold1215	18301	TT	AA	1946999802
SNP_P4_156313_21193	NW_004516479.1	Scaffold1215	21193	GG	AA	1946999804
SNP_P4_156314_26342	NW_004516479.1	Scaffold1215	26342	TT	CC	1946999806
SNP_P4_156315_35986	NW_004516479.1	Scaffold1215	35986	TT	CC	1946999808
SNP_P4_156316_36088	NW_004516479.1	Scaffold1215	36088	GG	AA	1946999810

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_156318_38793	NW_004516479.1	Scaffold1215	38793	TT	CC	1946999814
SNP_P4_156319_41363	NW_004516479.1	Scaffold1215	41363	AA	GG	1946999816
SNP_P4_156320_41470	NW_004516479.1	Scaffold1215	41470	CC	TT	1946999818
SNP_P4_156321_41478	NW_004516479.1	Scaffold1215	41478	AA	CC	1946999820
SNP_P4_156322_41503	NW_004516479.1	Scaffold1215	41503	CC	TT	1946999822
SNP_P4_156324_42150	NW_004516479.1	Scaffold1215	42150	GG	AA	1946999824
SNP_P4_156325_42164	NW_004516479.1	Scaffold1215	42164	CC	GG	1946999826
SNP_P4_156326_43906	NW_004516479.1	Scaffold1215	43906	AA	TT	1946999828
SNP_P4_156327_44423	NW_004516479.1	Scaffold1215	44423	TT	CC	1946999830
SNP_P4_156328_44447	NW_004516479.1	Scaffold1215	44447	AA	TT	1946999832
SNP_P4_156330_45699	NW_004516479.1	Scaffold1215	45699	GG	AA	1946999834
SNP_P4_156332_202	NW_004516480.1	Scaffold1216	202	AA	GG	1946999836
SNP_P4_156333_245	NW_004516480.1	Scaffold1216	245	GG	AA	1946999838
SNP_P4_156334_269	NW_004516480.1	Scaffold1216	269	TT	AA	1946999840
SNP_P4_156335_305	NW_004516480.1	Scaffold1216	305	AA	GG	1946999842
SNP_P4_156336_364	NW_004516480.1	Scaffold1216	364	GG	AA	1946999844
SNP_P4_156337_404	NW_004516480.1	Scaffold1216	404	CC	TT	1946999846
SNP_P4_156338_486	NW_004516480.1	Scaffold1216	486	CC	TT	1946999848
SNP_P4_156339_549	NW_004516480.1	Scaffold1216	549	TT	AA	1946999850
SNP_P4_156340_638	NW_004516480.1	Scaffold1216	638	CC	TT	1946999852
SNP_P4_156341_3404	NW_004516480.1	Scaffold1216	3404	GG	CC	1946999854
SNP_P4_156342_3579	NW_004516480.1	Scaffold1216	3579	AA	TT	1946999856
SNP_P4_156343_3656	NW_004516480.1	Scaffold1216	3656	CC	TT	1946999858
SNP_P4_156344_3890	NW_004516480.1	Scaffold1216	3890	AA	TT	1946999860
SNP_P4_156345_3936	NW_004516480.1	Scaffold1216	3936	TT	AA	1946999862
SNP_P4_156346_4210	NW_004516480.1	Scaffold1216	4210	GG	TT	1946999864
SNP_P4_156347_4555	NW_004516480.1	Scaffold1216	4555	CC	TT	1946999866
SNP_P4_156348_4609	NW_004516480.1	Scaffold1216	4609	AA	GG	1946999868
SNP_P4_156349_4618	NW_004516480.1	Scaffold1216	4618	TT	CC	1946999870
SNP_P4_156350_4641	NW_004516480.1	Scaffold1216	4641	GG	TT	1946999872
SNP_P4_156351_4643	NW_004516480.1	Scaffold1216	4643	AA	TT	1946999874
SNP_P4_156352_4832	NW_004516480.1	Scaffold1216	4832	TT	CC	1946999876
SNP_P4_156353_4842	NW_004516480.1	Scaffold1216	4842	TT	CC	1946999877
SNP_P4_156354_4844	NW_004516480.1	Scaffold1216	4844	GG	AA	1946999879
SNP_P4_156355_5074	NW_004516480.1	Scaffold1216	5074	CC	TT	1946999881
SNP_P4_156356_5118	NW_004516480.1	Scaffold1216	5118	AA	TT	1946999883
SNP_P4_156357_5128	NW_004516480.1	Scaffold1216	5128	AA	GG	1946999885
SNP_P4_156358_5176	NW_004516480.1	Scaffold1216	5176	TT	CC	1946999887
SNP_P4_156359_5209	NW_004516480.1	Scaffold1216	5209	CC	TT	1946999889
SNP_P4_156360_9938	NW_004516480.1	Scaffold1216	9938	AA	GG	1946999891
SNP_P4_156361_9953	NW_004516480.1	Scaffold1216	9953	GG	AA	1946999893

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_156363_12761	NW_004516480.1	Scaffold1216	12761	TT	AA	1946999897
SNP_P4_156364_12767	NW_004516480.1	Scaffold1216	12767	GG	AA	1946999899
SNP_P4_156365_12775	NW_004516480.1	Scaffold1216	12775	TT	CC	1946999901
SNP_P4_156366_12890	NW_004516480.1	Scaffold1216	12890	AA	GG	1946999902
SNP_P4_156367_13072	NW_004516480.1	Scaffold1216	13072	TT	AA	1946999904
SNP_P4_156368_13266	NW_004516480.1	Scaffold1216	13266	CC	TT	1946999906
SNP_P4_156369_13290	NW_004516480.1	Scaffold1216	13290	CC	TT	1946999908
SNP_P4_156370_13308	NW_004516480.1	Scaffold1216	13308	TT	AA	1946999910
SNP_P4_156371_13444	NW_004516480.1	Scaffold1216	13444	GG	TT	1946999912
SNP_P4_156372_13447	NW_004516480.1	Scaffold1216	13447	AA	TT	1946999914
SNP_P4_156373_13713	NW_004516480.1	Scaffold1216	13713	GG	AA	1946999916
SNP_P4_156374_14115	NW_004516480.1	Scaffold1216	14115	AA	TT	1946999918
SNP_P4_156375_14267	NW_004516480.1	Scaffold1216	14267	CC	TT	1946999920
SNP_P4_156376_14661	NW_004516480.1	Scaffold1216	14661	AA	TT	1946999922
SNP_P4_156377_14844	NW_004516480.1	Scaffold1216	14844	TT	GG	1946999924
SNP_P4_156378_14871	NW_004516480.1	Scaffold1216	14871	AA	GG	1946999926
SNP_P4_156379_14885	NW_004516480.1	Scaffold1216	14885	TT	CC	1946999928
SNP_P4_156380_15070	NW_004516480.1	Scaffold1216	15070	GG	TT	1946999930
SNP_P4_156381_15071	NW_004516480.1	Scaffold1216	15071	GG	AA	1946999932
SNP_P4_156382_15075	NW_004516480.1	Scaffold1216	15075	TT	AA	1946999934
SNP_P4_156384_15785	NW_004516480.1	Scaffold1216	15785	AA	GG	1946999936
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SNP_P4_156387_16109	NW_004516480.1	Scaffold1216	16109	GG	AA	1946999942
SNP_P4_156388_16162	NW_004516480.1	Scaffold1216	16162	AA	TT	1946999944
SNP_P4_156389_16283	NW_004516480.1	Scaffold1216	16283	TT	CC	1946999946
SNP_P4_156390_16376	NW_004516480.1	Scaffold1216	16376	CC	AA	1946999948
SNP_P4_156391_16418	NW_004516480.1	Scaffold1216	16418	GG	TT	1946999950
SNP_P4_156392_16432	NW_004516480.1	Scaffold1216	16432	TT	GG	1946999952
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SNP_P4_156395_16552	NW_004516480.1	Scaffold1216	16552	GG	AA	1946999958
SNP_P4_156396_16701	NW_004516480.1	Scaffold1216	16701	AA	TT	1946999960
SNP_P4_156397_16745	NW_004516480.1	Scaffold1216	16745	CC	TT	1946999962
SNP_P4_156398_16756	NW_004516480.1	Scaffold1216	16756	TT	AA	1946999964
SNP_P4_156399_16814	NW_004516480.1	Scaffold1216	16814	CC	AA	1946999966
SNP_P4_156400_16816	NW_004516480.1	Scaffold1216	16816	GG	CC	1946999968
SNP_P4_156401_16878	NW_004516480.1	Scaffold1216	16878	TT	AA	1946999970
SNP_P4_156402_16918	NW_004516480.1	Scaffold1216	16918	AA	GG	1946999972
SNP_P4_156403_16944	NW_004516480.1	Scaffold1216	16944	AA	GG	1946999974
SNP_P4_156404_16955	NW_004516480.1	Scaffold1216	16955	CC	TT	1946999976

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_156406_17025	NW_004516480.1	Scaffold1216	17025	GG	CC	1946999980
SNP_P4_156407_17064	NW_004516480.1	Scaffold1216	17064	TT	CC	1946999982
SNP_P4_156408_17105	NW_004516480.1	Scaffold1216	17105	TT	AA	1946999984
SNP_P4_156409_17113	NW_004516480.1	Scaffold1216	17113	AA	GG	1946999986
SNP_P4_156410_17114	NW_004516480.1	Scaffold1216	17114	CC	GG	1946999988
SNP_P4_156411_17139	NW_004516480.1	Scaffold1216	17139	AA	GG	1946999990
SNP_P4_156412_17186	NW_004516480.1	Scaffold1216	17186	GG	TT	1946999992
SNP_P4_156413_17484	NW_004516480.1	Scaffold1216	17484	GG	AA	1946999994
SNP_P4_156414_17552	NW_004516480.1	Scaffold1216	17552	TT	CC	1946999996
SNP_P4_156415_17626	NW_004516480.1	Scaffold1216	17626	AA	GG	1946999998
SNP_P4_156416_17818	NW_004516480.1	Scaffold1216	17818	AA	GG	1947000000
SNP_P4_156417_20369	NW_004516480.1	Scaffold1216	20369	GG	AA	1947000002
SNP_P4_156418_20501	NW_004516480.1	Scaffold1216	20501	CC	TT	1947000004
SNP_P4_156419_20523	NW_004516480.1	Scaffold1216	20523	AA	TT	1947000006
SNP_P4_156420_20525	NW_004516480.1	Scaffold1216	20525	CC	TT	1947000008
SNP_P4_156421_20551	NW_004516480.1	Scaffold1216	20551	AA	GG	1947000010
SNP_P4_156422_20581	NW_004516480.1	Scaffold1216	20581	TT	GG	1947000012
SNP_P4_156423_20631	NW_004516480.1	Scaffold1216	20631	AA	TT	1947000014
SNP_P4_156424_20653	NW_004516480.1	Scaffold1216	20653	GG	CC	1947000016
SNP_P4_156425_20780	NW_004516480.1	Scaffold1216	20780	GG	CC	1947000018
SNP_P4_156426_20791	NW_004516480.1	Scaffold1216	20791	AA	TT	1947000020
SNP_P4_156427_20806	NW_004516480.1	Scaffold1216	20806	TT	AA	1947000022
SNP_P4_156428_20816	NW_004516480.1	Scaffold1216	20816	TT	CC	1947000024
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SNP_P4_156430_20988	NW_004516480.1	Scaffold1216	20988	AA	GG	1947000027
SNP_P4_156431_21062	NW_004516480.1	Scaffold1216	21062	AA	GG	1947000029
SNP_P4_156432_21108	NW_004516480.1	Scaffold1216	21108	GG	AA	1947000031
SNP_P4_156433_21119	NW_004516480.1	Scaffold1216	21119	CC	TT	1947000033
SNP_P4_156434_21138	NW_004516480.1	Scaffold1216	21138	TT	AA	1947000035
SNP_P4_156435_21142	NW_004516480.1	Scaffold1216	21142	CC	AA	1947000037
SNP_P4_156436_21144	NW_004516480.1	Scaffold1216	21144	TT	CC	1947000039
SNP_P4_156437_21393	NW_004516480.1	Scaffold1216	21393	GG	CC	1947000041
SNP_P4_156438_21404	NW_004516480.1	Scaffold1216	21404	CC	GG	1947000043
SNP_P4_156439_21409	NW_004516480.1	Scaffold1216	21409	GG	AA	1947000045
SNP_P4_156440_6475	NW_004516482.1	Scaffold1219	6475	GG	AA	1947000047
SNP_P4_156441_6965	NW_004516482.1	Scaffold1219	6965	AA	TT	1947000049
SNP_P4_156442_6985	NW_004516482.1	Scaffold1219	6985	TT	CC	1947000051
SNP_P4_156443_6991	NW_004516482.1	Scaffold1219	6991	GG	AA	1947000053
SNP_P4_156444_7034	NW_004516482.1	Scaffold1219	7034	CC	TT	1947000055
SNP_P4_156445_7073	NW_004516482.1	Scaffold1219	7073	AA	TT	1947000057
SNP_P4_156446_7087	NW_004516482.1	Scaffold1219	7087	TT	GG	1947000059

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_156447_7108	NW_004516482.1	Scaffold1219	7108	GG	AA	1947000061
SNP_P4_156449_7214	NW_004516482.1	Scaffold1219	7214	TT	CC	1947000063
SNP_P4_156450_7308	NW_004516482.1	Scaffold1219	7308	GG	TT	1947000065
SNP_P4_156451_11078	NW_004516482.1	Scaffold1219	11078	GG	AA	1947000067
SNP_P4_156452_11097	NW_004516482.1	Scaffold1219	11097	TT	CC	1947000069
SNP_P4_156453_11137	NW_004516482.1	Scaffold1219	11137	TT	CC	1947000071
SNP_P4_156454_11383	NW_004516482.1	Scaffold1219	11383	AA	GG	1947000073
SNP_P4_156455_11385	NW_004516482.1	Scaffold1219	11385	AA	TT	1947000076
SNP_P4_156456_11434	NW_004516482.1	Scaffold1219	11434	GG	AA	1947000078
SNP_P4_156457_11445	NW_004516482.1	Scaffold1219	11445	TT	GG	1947000080
SNP_P4_156458_11470	NW_004516482.1	Scaffold1219	11470	CC	TT	1947000082
SNP_P4_156459_11504	NW_004516482.1	Scaffold1219	11504	CC	TT	1947000084
SNP_P4_156460_11691	NW_004516482.1	Scaffold1219	11691	GG	AA	1947000086
SNP_P4_156461_11751	NW_004516482.1	Scaffold1219	11751	TT	CC	1947000088
SNP_P4_156462_13021	NW_004516482.1	Scaffold1219	13021	GG	AA	1947000090
SNP_P4_156463_13367	NW_004516482.1	Scaffold1219	13367	CC	AA	1947000092
SNP_P4_156464_14008	NW_004516482.1	Scaffold1219	14008	AA	TT	1947000094
SNP_P4_156465_14923	NW_004516482.1	Scaffold1219	14923	CC	TT	1947000096
SNP_P4_156467_16442	NW_004516482.1	Scaffold1219	16442	CC	AA	1947000098
SNP_P4_156468_16669	NW_004516482.1	Scaffold1219	16669	AA	TT	1947000100
SNP_P4_156469_16706	NW_004516482.1	Scaffold1219	16706	GG	TT	1947000102
SNP_P4_156471_29147	NW_004516482.1	Scaffold1219	29147	CC	TT	1947000104
SNP_P4_156472_29201	NW_004516482.1	Scaffold1219	29201	AA	CC	1947000106
SNP_P4_156473_29397	NW_004516482.1	Scaffold1219	29397	AA	GG	1947000108
SNP_P4_156474_29444	NW_004516482.1	Scaffold1219	29444	GG	TT	1947000110
SNP_P4_156475_37915	NW_004516482.1	Scaffold1219	37915	CC	TT	1947000112
SNP_P4_156476_39964	NW_004516482.1	Scaffold1219	39964	TT	CC	1947000114
SNP_P4_156477_39981	NW_004516482.1	Scaffold1219	39981	AA	TT	1947000116
SNP_P4_156480_54163	NW_004516482.1	Scaffold1219	54163	GG	CC	1947000118
SNP_P4_156481_58190	NW_004516482.1	Scaffold1219	58190	CC	TT	1947000120
SNP_P4_156482_71975	NW_004516482.1	Scaffold1219	71975	TT	CC	1947000122
SNP_P4_156483_103048	NW_004516482.1	Scaffold1219	103048	TT	CC	1947000124
SNP_P4_156484_103054	NW_004516482.1	Scaffold1219	103054	TT	GG	1947000126
SNP_P4_156485_103068	NW_004516482.1	Scaffold1219	103068	TT	CC	1947000127
SNP_P4_156486_117939	NW_004516482.1	Scaffold1219	117939	TT	CC	1947000128
SNP_P4_156487_8894	NW_004516484.1	Scaffold1221	8894	AA	GG	1947000129
SNP_P4_156488_9079	NW_004516484.1	Scaffold1221	9079	AA	GG	1947000130
SNP_P4_156489_9088	NW_004516484.1	Scaffold1221	9088	GG	CC	1947000131
SNP_P4_156490_9199	NW_004516484.1	Scaffold1221	9199	CC	AA	1947000132
SNP_P4_156491_32260	NW_004516484.1	Scaffold1221	32260	CC	TT	1947000134
SNP_P4_156492_42806	NW_004516484.1	Scaffold1221	42806	GG	CC	1947000136
SNP_P4_156493_42866	NW_004516484.1	Scaffold1221	42866	GG	CC	1947000138

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_156495_49140	NW_004516484.1	Scaffold1221	49140	TT	CC	1947000142
SNP_P4_156496_49167	NW_004516484.1	Scaffold1221	49167	AA	GG	1947000144
SNP_P4_156497_69745	NW_004516484.1	Scaffold1221	69745	CC	TT	1947000146
SNP_P4_156498_77238	NW_004516484.1	Scaffold1221	77238	AA	GG	1947000148
SNP_P4_156499_77306	NW_004516484.1	Scaffold1221	77306	CC	TT	1947000150
SNP_P4_156500_13747	NW_004516485.1	Scaffold1222	13747	TT	AA	1947000152
SNP_P4_156501_13750	NW_004516485.1	Scaffold1222	13750	TT	AA	1947000154
SNP_P4_156502_13802	NW_004516485.1	Scaffold1222	13802	CC	TT	1947000156
SNP_P4_156503_13831	NW_004516485.1	Scaffold1222	13831	AA	GG	1947000158
SNP_P4_156504_13837	NW_004516485.1	Scaffold1222	13837	CC	TT	1947000160
SNP_P4_156506_13952	NW_004516485.1	Scaffold1222	13952	TT	AA	1947000162
SNP_P4_156507_14510	NW_004516485.1	Scaffold1222	14510	CC	GG	1947000164
SNP_P4_156508_14520	NW_004516485.1	Scaffold1222	14520	AA	GG	1947000166
SNP_P4_156509_14529	NW_004516485.1	Scaffold1222	14529	TT	AA	1947000168
SNP_P4_156510_14606	NW_004516485.1	Scaffold1222	14606	AA	CC	1947000170
SNP_P4_156511_14615	NW_004516485.1	Scaffold1222	14615	CC	AA	1947000172
SNP_P4_156512_14713	NW_004516485.1	Scaffold1222	14713	AA	GG	1947000174
SNP_P4_156513_14724	NW_004516485.1	Scaffold1222	14724	AA	TT	1947000176
SNP_P4_156514_14755	NW_004516485.1	Scaffold1222	14755	GG	CC	1947000178
SNP_P4_156515_14806	NW_004516485.1	Scaffold1222	14806	TT	AA	1947000180
SNP_P4_156516_14826	NW_004516485.1	Scaffold1222	14826	CC	TT	1947000182
SNP_P4_156517_14856	NW_004516485.1	Scaffold1222	14856	TT	AA	1947000184
SNP_P4_156518_14858	NW_004516485.1	Scaffold1222	14858	TT	AA	1947000186
SNP_P4_156519_14863	NW_004516485.1	Scaffold1222	14863	TT	GG	1947000188
SNP_P4_156520_14895	NW_004516485.1	Scaffold1222	14895	CC	AA	1947000190
SNP_P4_156521_14902	NW_004516485.1	Scaffold1222	14902	CC	AA	1947000192
SNP_P4_156523_3988	NW_004516486.1	Scaffold1224	3988	AA	CC	1947000193
SNP_P4_156524_4004	NW_004516486.1	Scaffold1224	4004	TT	AA	1947000195
SNP_P4_156525_4016	NW_004516486.1	Scaffold1224	4016	TT	GG	1947000197
SNP_P4_156526_4021	NW_004516486.1	Scaffold1224	4021	TT	AA	1947000199
SNP_P4_156527_4107	NW_004516486.1	Scaffold1224	4107	TT	CC	1947000201
SNP_P4_156528_4136	NW_004516486.1	Scaffold1224	4136	TT	CC	1947000203
SNP_P4_156529_4138	NW_004516486.1	Scaffold1224	4138	GG	AA	1947000205
SNP_P4_156530_4140	NW_004516486.1	Scaffold1224	4140	GG	CC	1947000207
SNP_P4_156531_4187	NW_004516486.1	Scaffold1224	4187	CC	TT	1947000209
SNP_P4_156532_4445	NW_004516486.1	Scaffold1224	4445	AA	GG	1947000211
SNP_P4_156533_5066	NW_004516486.1	Scaffold1224	5066	TT	CC	1947000213
SNP_P4_156534_5083	NW_004516486.1	Scaffold1224	5083	AA	GG	1947000215
SNP_P4_156535_32365	NW_004516487.1	Scaffold1226	32365	TT	CC	1947000217
SNP_P4_156536_32391	NW_004516487.1	Scaffold1226	32391	GG	AA	1947000219
SNP_P4_156537_5098	NW_004516489.1	Scaffold1231	5098	AA	GG	1947000221

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_156538_6970	NW_004516489.1	Scaffold1231	6970	CC	TT	1947000223
SNP_P4_156539_7023	NW_004516489.1	Scaffold1231	7023	TT	GG	1947000225
SNP_P4_156541_7364	NW_004516489.1	Scaffold1231	7364	GG	AA	1947000227
SNP_P4_156542_7374	NW_004516489.1	Scaffold1231	7374	TT	CC	1947000229
SNP_P4_156543_24211	NW_004516489.1	Scaffold1231	24211	CC	AA	1947000231
SNP_P4_156544_25734	NW_004516489.1	Scaffold1231	25734	CC	TT	1947000233
SNP_P4_156545_41538	NW_004516489.1	Scaffold1231	41538	TT	CC	1947000235
SNP_P4_156546_41573	NW_004516489.1	Scaffold1231	41573	GG	TT	1947000237
SNP_P4_156547_41583	NW_004516489.1	Scaffold1231	41583	CC	GG	1947000238
SNP_P4_156548_54952	NW_004516489.1	Scaffold1231	54952	TT	CC	1947000240
SNP_P4_156549_74732	NW_004516489.1	Scaffold1231	74732	AA	CC	1947000242
SNP_P4_156550_74909	NW_004516489.1	Scaffold1231	74909	GG	AA	1947000244
SNP_P4_156551_87001	NW_004516489.1	Scaffold1231	87001	CC	GG	1947000246
SNP_P4_156552_87335	NW_004516489.1	Scaffold1231	87335	CC	TT	1947000248
SNP_P4_156553_113338	NW_004516489.1	Scaffold1231	113338	GG	AA	1947000250
SNP_P4_156554_118077	NW_004516489.1	Scaffold1231	118077	AA	GG	1947000252
SNP_P4_156555_118880	NW_004516489.1	Scaffold1231	118880	GG	AA	1947000254
SNP_P4_156556_128469	NW_004516489.1	Scaffold1231	128469	CC	TT	1947000256
SNP_P4_156557_143103	NW_004516489.1	Scaffold1231	143103	CC	TT	1947000258
SNP_P4_156558_143114	NW_004516489.1	Scaffold1231	143114	GG	AA	1947000260
SNP_P4_156559_143118	NW_004516489.1	Scaffold1231	143118	CC	TT	1947000262
SNP_P4_156560_143142	NW_004516489.1	Scaffold1231	143142	TT	CC	1947000264
SNP_P4_156562_185086	NW_004516489.1	Scaffold1231	185086	AA	GG	1947000266
SNP_P4_156563_185092	NW_004516489.1	Scaffold1231	185092	CC	TT	1947000268
SNP_P4_156564_185155	NW_004516489.1	Scaffold1231	185155	AA	CC	1947000270
SNP_P4_156565_185758	NW_004516489.1	Scaffold1231	185758	GG	AA	1947000272
SNP_P4_156566_186606	NW_004516489.1	Scaffold1231	186606	GG	AA	1947000274
SNP_P4_156567_186898	NW_004516489.1	Scaffold1231	186898	GG	AA	1947000276
SNP_P4_156568_187139	NW_004516489.1	Scaffold1231	187139	CC	TT	1947000278
SNP_P4_156569_187189	NW_004516489.1	Scaffold1231	187189	TT	CC	1947000280
SNP_P4_156570_3158	NW_004516491.1	Scaffold1234	3158	GG	AA	1947000282
SNP_P4_156571_469	NW_004516492.1	Scaffold1235	469	TT	AA	1947000284
SNP_P4_156572_848	NW_004516492.1	Scaffold1235	848	GG	AA	1947000286
SNP_P4_156573_881	NW_004516492.1	Scaffold1235	881	CC	TT	1947000288
SNP_P4_156574_940	NW_004516492.1	Scaffold1235	940	GG	AA	1947000290
SNP_P4_156575_1112	NW_004516492.1	Scaffold1235	1112	AA	GG	1947000292
SNP_P4_156576_1200	NW_004516492.1	Scaffold1235	1200	AA	GG	1947000294
SNP_P4_156577_1154	NW_004516495.1	Scaffold1238	1154	TT	GG	1947000296
SNP_P4_156578_1640	NW_004516495.1	Scaffold1238	1640	AA	TT	1947000298
SNP_P4_156579_1897	NW_004516495.1	Scaffold1238	1897	AA	CC	1947000300
SNP_P4_156580_13795	NW_004516495.1	Scaffold1238	13795	CC	AA	1947000302
SNP_P4_156581_13796	NW_004516495.1	Scaffold1238	13796	CC	AA	1947000304

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_156584_30358	NW_004516495.1	Scaffold1238	30358	CC	TT	1947000308
SNP_P4_156585_30362	NW_004516495.1	Scaffold1238	30362	CC	TT	1947000310
SNP_P4_156587_30720	NW_004516495.1	Scaffold1238	30720	AA	GG	1947000312
SNP_P4_156588_31178	NW_004516495.1	Scaffold1238	31178	AA	TT	1947000314
SNP_P4_156590_50957	NW_004516495.1	Scaffold1238	50957	CC	TT	1947000316
SNP_P4_156591_50970	NW_004516495.1	Scaffold1238	50970	CC	TT	1947000318
SNP_P4_156592_50981	NW_004516495.1	Scaffold1238	50981	TT	CC	1947000320
SNP_P4_156593_50986	NW_004516495.1	Scaffold1238	50986	CC	TT	1947000322
SNP_P4_156594_51026	NW_004516495.1	Scaffold1238	51026	TT	CC	1947000324
SNP_P4_156595_64911	NW_004516495.1	Scaffold1238	64911	TT	CC	1947000326
SNP_P4_156596_65186	NW_004516495.1	Scaffold1238	65186	CC	AA	1947000328
SNP_P4_156597_65188	NW_004516495.1	Scaffold1238	65188	AA	GG	1947000330
SNP_P4_156598_65650	NW_004516495.1	Scaffold1238	65650	AA	GG	1947000332
SNP_P4_156599_72064	NW_004516495.1	Scaffold1238	72064	GG	AA	1947000334
SNP_P4_156600_101775	NW_004516495.1	Scaffold1238	101775	TT	AA	1947000335
SNP_P4_156601_103805	NW_004516495.1	Scaffold1238	103805	CC	TT	1947000337
SNP_P4_156602_103916	NW_004516495.1	Scaffold1238	103916	GG	AA	1947000339
SNP_P4_156603_103927	NW_004516495.1	Scaffold1238	103927	CC	TT	1947000341
SNP_P4_156604_103990	NW_004516495.1	Scaffold1238	103990	AA	TT	1947000343
SNP_P4_156605_104024	NW_004516495.1	Scaffold1238	104024	AA	CC	1947000345
SNP_P4_156606_104167	NW_004516495.1	Scaffold1238	104167	AA	GG	1947000347
SNP_P4_156607_104205	NW_004516495.1	Scaffold1238	104205	TT	CC	1947000349
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SNP_P4_156610_104230	NW_004516495.1	Scaffold1238	104230	CC	TT	1947000354
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SNP_P4_156612_104365	NW_004516495.1	Scaffold1238	104365	GG	TT	1947000358
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SNP_P4_156614_109714	NW_004516495.1	Scaffold1238	109714	AA	TT	1947000362
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SNP_P4_156617_110097	NW_004516495.1	Scaffold1238	110097	AA	GG	1947000368
SNP_P4_156618_110307	NW_004516495.1	Scaffold1238	110307	AA	GG	1947000370
SNP_P4_156619_110331	NW_004516495.1	Scaffold1238	110331	AA	GG	1947000372
SNP_P4_156620_110338	NW_004516495.1	Scaffold1238	110338	AA	CC	1947000374
SNP_P4_156621_110526	NW_004516495.1	Scaffold1238	110526	CC	TT	1947000376
SNP_P4_156623_110559	NW_004516495.1	Scaffold1238	110559	AA	CC	1947000378
SNP_P4_156624_110560	NW_004516495.1	Scaffold1238	110560	TT	CC	1947000380
SNP_P4_156625_110740	NW_004516495.1	Scaffold1238	110740	AA	GG	1947000381
SNP_P4_156626_110747	NW_004516495.1	Scaffold1238	110747	AA	CC	1947000383
SNP_P4_156627_110759	NW_004516495.1	Scaffold1238	110759	TT	GG	1947000385

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_156629_110791	NW_004516495.1	Scaffold1238	110791	GG	AA	1947000389
SNP_P4_156630_110830	NW_004516495.1	Scaffold1238	110830	AA	TT	1947000391
SNP_P4_156631_110839	NW_004516495.1	Scaffold1238	110839	TT	CC	1947000393
SNP_P4_156632_110842	NW_004516495.1	Scaffold1238	110842	GG	AA	1947000395
SNP_P4_156633_110843	NW_004516495.1	Scaffold1238	110843	GG	AA	1947000397
SNP_P4_156634_110918	NW_004516495.1	Scaffold1238	110918	AA	TT	1947000399
SNP_P4_156635_130359	NW_004516495.1	Scaffold1238	130359	AA	TT	1947000401
SNP_P4_156636_136281	NW_004516495.1	Scaffold1238	136281	TT	AA	1947000403
SNP_P4_156637_141443	NW_004516495.1	Scaffold1238	141443	AA	GG	1947000405
SNP_P4_156638_146657	NW_004516495.1	Scaffold1238	146657	GG	AA	1947000407
SNP_P4_156639_146707	NW_004516495.1	Scaffold1238	146707	CC	TT	1947000408
SNP_P4_156640_147017	NW_004516495.1	Scaffold1238	147017	AA	GG	1947000410
SNP_P4_156641_150794	NW_004516495.1	Scaffold1238	150794	TT	CC	1947000412
SNP_P4_156643_254	NW_004516496.1	Scaffold1239	254	AA	TT	1947000414
SNP_P4_156644_272	NW_004516496.1	Scaffold1239	272	GG	AA	1947000416
SNP_P4_156645_2478	NW_004516496.1	Scaffold1239	2478	AA	CC	1947000418
SNP_P4_156646_2567	NW_004516496.1	Scaffold1239	2567	TT	AA	1947000420
SNP_P4_156647_2634	NW_004516496.1	Scaffold1239	2634	TT	AA	1947000422
SNP_P4_156648_3871	NW_004516496.1	Scaffold1239	3871	GG	AA	1947000424
SNP_P4_156649_3931	NW_004516496.1	Scaffold1239	3931	AA	GG	1947000426
SNP_P4_156650_4068	NW_004516496.1	Scaffold1239	4068	GG	AA	1947000428
SNP_P4_156651_4076	NW_004516496.1	Scaffold1239	4076	TT	CC	1947000430
SNP_P4_156652_4196	NW_004516496.1	Scaffold1239	4196	CC	GG	1947000432
SNP_P4_156653_4248	NW_004516496.1	Scaffold1239	4248	CC	TT	1947000434
SNP_P4_156655_4392	NW_004516496.1	Scaffold1239	4392	GG	AA	1947000436
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SNP_P4_156657_4633	NW_004516496.1	Scaffold1239	4633	TT	CC	1947000440
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SNP_P4_156662_62859	NW_004516497.1	Scaffold1240	62859	CC	AA	1947000447
SNP_P4_156663_67626	NW_004516497.1	Scaffold1240	67626	GG	AA	1947000449
SNP_P4_156664_68951	NW_004516497.1	Scaffold1240	68951	TT	AA	1947000451
SNP_P4_156666_102732	NW_004516497.1	Scaffold1240	102732	TT	CC	1947000453
SNP_P4_156667_105518	NW_004516497.1	Scaffold1240	105518	AA	GG	1947000455
SNP_P4_156669_105760	NW_004516497.1	Scaffold1240	105760	CC	AA	1947000457
SNP_P4_156670_105771	NW_004516497.1	Scaffold1240	105771	AA	GG	1947000459
SNP_P4_156671_106016	NW_004516497.1	Scaffold1240	106016	CC	TT	1947000461
SNP_P4_156674_133150	NW_004516497.1	Scaffold1240	133150	AA	GG	1947000463
SNP_P4_156675_145473	NW_004516497.1	Scaffold1240	145473	CC	AA	1947000465
SNP_P4_156676_145548	NW_004516497.1	Scaffold1240	145548	TT	CC	1947000467

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_156678_145846	NW_004516497.1	Scaffold1240	145846	TT	AA	1947000471
SNP_P4_156679_145850	NW_004516497.1	Scaffold1240	145850	CC	TT	1947000472
SNP_P4_156680_145922	NW_004516497.1	Scaffold1240	145922	CC	TT	1947000474
SNP_P4_156682_2695	NW_004516498.1	Scaffold1242	2695	GG	AA	1947000476
SNP_P4_156683_2869	NW_004516498.1	Scaffold1242	2869	AA	TT	1947000478
SNP_P4_156684_14600	NW_004516498.1	Scaffold1242	14600	CC	TT	1947000480
SNP_P4_156685_14606	NW_004516498.1	Scaffold1242	14606	AA	GG	1947000482
SNP_P4_156686_15015	NW_004516498.1	Scaffold1242	15015	AA	TT	1947000484
SNP_P4_156687_15051	NW_004516498.1	Scaffold1242	15051	GG	CC	1947000486
SNP_P4_156688_15251	NW_004516498.1	Scaffold1242	15251	AA	GG	1947000488
SNP_P4_156689_17022	NW_004516498.1	Scaffold1242	17022	TT	CC	1947000490
SNP_P4_156690_17030	NW_004516498.1	Scaffold1242	17030	TT	CC	1947000492
SNP_P4_156691_17059	NW_004516498.1	Scaffold1242	17059	TT	CC	1947000494
SNP_P4_156692_22590	NW_004516498.1	Scaffold1242	22590	CC	AA	1947000496
SNP_P4_156693_24742	NW_004516498.1	Scaffold1242	24742	CC	TT	1947000498
SNP_P4_156694_26632	NW_004516498.1	Scaffold1242	26632	TT	AA	1947000500
SNP_P4_156695_26635	NW_004516498.1	Scaffold1242	26635	TT	GG	1947000502
SNP_P4_156696_27488	NW_004516498.1	Scaffold1242	27488	TT	GG	1947000504
SNP_P4_156697_27542	NW_004516498.1	Scaffold1242	27542	TT	CC	1947000505
SNP_P4_156698_40148	NW_004516498.1	Scaffold1242	40148	CC	TT	1947000507
SNP_P4_156699_40213	NW_004516498.1	Scaffold1242	40213	TT	CC	1947000509
SNP_P4_156700_40393	NW_004516498.1	Scaffold1242	40393	AA	GG	1947000511
SNP_P4_156701_40428	NW_004516498.1	Scaffold1242	40428	AA	CC	1947000513
SNP_P4_156702_40462	NW_004516498.1	Scaffold1242	40462	AA	TT	1947000515
SNP_P4_156703_40487	NW_004516498.1	Scaffold1242	40487	GG	TT	1947000517
SNP_P4_156704_40509	NW_004516498.1	Scaffold1242	40509	CC	TT	1947000519
SNP_P4_156705_47768	NW_004516498.1	Scaffold1242	47768	AA	TT	1947000521
SNP_P4_156706_48188	NW_004516498.1	Scaffold1242	48188	AA	CC	1947000523
SNP_P4_156707_50869	NW_004516498.1	Scaffold1242	50869	AA	GG	1947000524
SNP_P4_156708_53727	NW_004516498.1	Scaffold1242	53727	TT	CC	1947000526
SNP_P4_156709_53728	NW_004516498.1	Scaffold1242	53728	CC	GG	1947000528
SNP_P4_156710_57107	NW_004516498.1	Scaffold1242	57107	CC	TT	1947000530
SNP_P4_156711_57109	NW_004516498.1	Scaffold1242	57109	TT	GG	1947000532
SNP_P4_156712_57110	NW_004516498.1	Scaffold1242	57110	AA	GG	1947000534
SNP_P4_156713_62321	NW_004516498.1	Scaffold1242	62321	TT	CC	1947000536
SNP_P4_156714_64273	NW_004516498.1	Scaffold1242	64273	GG	AA	1947000538
SNP_P4_156715_775	NW_004516499.1	Scaffold1243	775	TT	GG	1947000540
SNP_P4_156716_994	NW_004516499.1	Scaffold1243	994	GG	TT	1947000542
SNP_P4_156717_1104	NW_004516499.1	Scaffold1243	1104	AA	GG	1947000544
SNP_P4_156718_1165	NW_004516499.1	Scaffold1243	1165	TT	GG	1947000546
SNP_P4_156719_1272	NW_004516499.1	Scaffold1243	1272	AA	TT	1947000548

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_156720_1335	NW_004516499.1	Scaffold1243	1335	TT	GG	1947000550
SNP_P4_156721_1534	NW_004516499.1	Scaffold1243	1534	GG	AA	1947000552
SNP_P4_156722_1612	NW_004516499.1	Scaffold1243	1612	AA	CC	1947000554
SNP_P4_156723_1818	NW_004516499.1	Scaffold1243	1818	AA	TT	1947000556
SNP_P4_156724_2211	NW_004516499.1	Scaffold1243	2211	AA	CC	1947000558
SNP_P4_156725_2256	NW_004516499.1	Scaffold1243	2256	CC	GG	1947000560
SNP_P4_156726_2018	NW_004516500.1	Scaffold1244	2018	TT	GG	1947000562
SNP_P4_156727_2028	NW_004516500.1	Scaffold1244	2028	AA	TT	1947000564
SNP_P4_156728_2105	NW_004516500.1	Scaffold1244	2105	TT	AA	1947000566
SNP_P4_156729_2175	NW_004516500.1	Scaffold1244	2175	TT	AA	1947000568
SNP_P4_156730_2183	NW_004516500.1	Scaffold1244	2183	AA	TT	1947000569
SNP_P4_156731_2192	NW_004516500.1	Scaffold1244	2192	CC	AA	1947000571
SNP_P4_156732_2305	NW_004516500.1	Scaffold1244	2305	TT	AA	1947000573
SNP_P4_156733_2371	NW_004516500.1	Scaffold1244	2371	CC	AA	1947000575
SNP_P4_156734_2634	NW_004516500.1	Scaffold1244	2634	TT	AA	1947000577
SNP_P4_156735_2754	NW_004516500.1	Scaffold1244	2754	AA	GG	1947000579
SNP_P4_156737_4773	NW_004516500.1	Scaffold1244	4773	CC	AA	1947000581
SNP_P4_156738_5191	NW_004516500.1	Scaffold1244	5191	GG	TT	1947000583
SNP_P4_156739_5198	NW_004516500.1	Scaffold1244	5198	CC	TT	1947000585
SNP_P4_156740_5216	NW_004516500.1	Scaffold1244	5216	CC	AA	1947000586
SNP_P4_156741_5231	NW_004516500.1	Scaffold1244	5231	AA	GG	1947000588
SNP_P4_156742_5249	NW_004516500.1	Scaffold1244	5249	GG	TT	1947000590
SNP_P4_156743_5274	NW_004516500.1	Scaffold1244	5274	AA	GG	1947000592
SNP_P4_156744_5836	NW_004516500.1	Scaffold1244	5836	TT	CC	1947000594
SNP_P4_156745_5845	NW_004516500.1	Scaffold1244	5845	GG	CC	1947000596
SNP_P4_156746_6059	NW_004516500.1	Scaffold1244	6059	TT	GG	1947000598
SNP_P4_156747_6065	NW_004516500.1	Scaffold1244	6065	AA	GG	1947000600
SNP_P4_156748_7037	NW_004516500.1	Scaffold1244	7037	AA	TT	1947000602
SNP_P4_156749_7850	NW_004516500.1	Scaffold1244	7850	AA	TT	1947000604
SNP_P4_156750_7856	NW_004516500.1	Scaffold1244	7856	CC	TT	1947000606
SNP_P4_156751_7859	NW_004516500.1	Scaffold1244	7859	CC	TT	1947000607
SNP_P4_156752_7863	NW_004516500.1	Scaffold1244	7863	TT	CC	1947000609
SNP_P4_156753_7865	NW_004516500.1	Scaffold1244	7865	TT	CC	1947000611
SNP_P4_156755_7877	NW_004516500.1	Scaffold1244	7877	AA	GG	1947000613
SNP_P4_156757_7914	NW_004516500.1	Scaffold1244	7914	TT	CC	1947000615
SNP_P4_156758_7981	NW_004516500.1	Scaffold1244	7981	GG	AA	1947000617
SNP_P4_156759_7982	NW_004516500.1	Scaffold1244	7982	TT	CC	1947000619
SNP_P4_156760_7983	NW_004516500.1	Scaffold1244	7983	CC	TT	1947000621
SNP_P4_156761_7984	NW_004516500.1	Scaffold1244	7984	CC	TT	1947000623
SNP_P4_156762_7985	NW_004516500.1	Scaffold1244	7985	AA	GG	1947000625
SNP_P4_156763_7993	NW_004516500.1	Scaffold1244	7993	AA	GG	1947000626
SNP_P4_156764_7994	NW_004516500.1	Scaffold1244	7994	AA	GG	1947000628

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_156767_10111	NW_004516500.1	Scaffold1244	10111	GG	AA	1947000634
SNP_P4_156768_11070	NW_004516500.1	Scaffold1244	11070	TT	GG	1947000636
SNP_P4_156769_13970	NW_004516500.1	Scaffold1244	13970	AA	TT	1947000638
SNP_P4_156770_14040	NW_004516500.1	Scaffold1244	14040	CC	TT	1947000640
SNP_P4_156771_14079	NW_004516500.1	Scaffold1244	14079	TT	CC	1947000642
SNP_P4_156773_17129	NW_004516500.1	Scaffold1244	17129	CC	TT	1947000643
SNP_P4_156774_17143	NW_004516500.1	Scaffold1244	17143	GG	AA	1947000645
SNP_P4_156775_20590	NW_004516500.1	Scaffold1244	20590	CC	AA	1947000647
SNP_P4_156777_64	NW_004516503.1	Scaffold1247	64	CC	GG	1947000649
SNP_P4_156778_81	NW_004516503.1	Scaffold1247	81	AA	GG	1947000651
SNP_P4_156779_4612	NW_004516503.1	Scaffold1247	4612	TT	CC	1947000653
SNP_P4_156780_4951	NW_004516503.1	Scaffold1247	4951	AA	GG	1947000655
SNP_P4_156781_6320	NW_004516503.1	Scaffold1247	6320	CC	TT	1947000657
SNP_P4_156782_6352	NW_004516503.1	Scaffold1247	6352	GG	AA	1947000659
SNP_P4_156783_6614	NW_004516503.1	Scaffold1247	6614	TT	CC	1947000661
SNP_P4_156784_6690	NW_004516503.1	Scaffold1247	6690	AA	GG	1947000663
SNP_P4_156785_7202	NW_004516503.1	Scaffold1247	7202	TT	CC	1947000664
SNP_P4_156786_7838	NW_004516503.1	Scaffold1247	7838	GG	AA	1947000666
SNP_P4_156787_10565	NW_004516503.1	Scaffold1247	10565	GG	TT	1947000668
SNP_P4_156788_10859	NW_004516503.1	Scaffold1247	10859	GG	AA	1947000670
SNP_P4_156789_10880	NW_004516503.1	Scaffold1247	10880	CC	TT	1947000672
SNP_P4_156790_13306	NW_004516503.1	Scaffold1247	13306	GG	CC	1947000674
SNP_P4_156791_13318	NW_004516503.1	Scaffold1247	13318	TT	CC	1947000676
SNP_P4_156792_13372	NW_004516503.1	Scaffold1247	13372	GG	AA	1947000678
SNP_P4_156793_13560	NW_004516503.1	Scaffold1247	13560	CC	AA	1947000680
SNP_P4_156794_13598	NW_004516503.1	Scaffold1247	13598	CC	TT	1947000682
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SNP_P4_156796_23671	NW_004516503.1	Scaffold1247	23671	CC	TT	1947000686
SNP_P4_156797_30633	NW_004516503.1	Scaffold1247	30633	AA	GG	1947000688
SNP_P4_156798_30634	NW_004516503.1	Scaffold1247	30634	AA	TT	1947000690
SNP_P4_156799_32156	NW_004516503.1	Scaffold1247	32156	AA	GG	1947000692
SNP_P4_156800_37368	NW_004516503.1	Scaffold1247	37368	CC	TT	1947000694
SNP_P4_156801_37608	NW_004516503.1	Scaffold1247	37608	TT	CC	1947000696
SNP_P4_156802_38188	NW_004516503.1	Scaffold1247	38188	TT	AA	1947000698
SNP_P4_156803_38748	NW_004516503.1	Scaffold1247	38748	TT	AA	1947000700
SNP_P4_156804_38761	NW_004516503.1	Scaffold1247	38761	TT	AA	1947000702
SNP_P4_156805_38764	NW_004516503.1	Scaffold1247	38764	AA	CC	1947000704
SNP_P4_156806_498	NW_004516504.1	Scaffold1248	498	CC	AA	1947000706
SNP_P4_156807_574	NW_004516504.1	Scaffold1248	574	GG	TT	1947000708
SNP_P4_156808_589	NW_004516504.1	Scaffold1248	589	AA	CC	1947000710

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_156810_1069	NW_004516504.1	Scaffold1248	1069	AA	TT	1947000715
SNP_P4_156811_1099	NW_004516504.1	Scaffold1248	1099	GG	TT	1947000718
SNP_P4_156812_686	NW_004516505.1	Scaffold1250	686	TT	GG	1947000720
SNP_P4_156813_1234	NW_004516506.1	Scaffold1251	1234	CC	AA	1947000722
SNP_P4_156814_15073	NW_004516507.1	Scaffold1252	15073	TT	CC	1947000724
SNP_P4_156815_19295	NW_004516507.1	Scaffold1252	19295	TT	AA	1947000726
SNP_P4_156816_28038	NW_004516507.1	Scaffold1252	28038	TT	CC	1947000728
SNP_P4_156817_28150	NW_004516507.1	Scaffold1252	28150	CC	GG	1947000730
SNP_P4_156818_28316	NW_004516507.1	Scaffold1252	28316	GG	CC	1947000732
SNP_P4_156819_28574	NW_004516507.1	Scaffold1252	28574	TT	GG	1947000734
SNP_P4_156820_28575	NW_004516507.1	Scaffold1252	28575	GG	TT	1947000736
SNP_P4_156821_28936	NW_004516507.1	Scaffold1252	28936	AA	GG	1947000738
SNP_P4_156822_43292	NW_004516507.1	Scaffold1252	43292	TT	AA	1947000740
SNP_P4_156823_43921	NW_004516507.1	Scaffold1252	43921	TT	GG	1947000742
SNP_P4_156824_44047	NW_004516507.1	Scaffold1252	44047	GG	TT	1947000744
SNP_P4_156825_44095	NW_004516507.1	Scaffold1252	44095	AA	CC	1947000746
SNP_P4_156826_44238	NW_004516507.1	Scaffold1252	44238	TT	GG	1947000748
SNP_P4_156827_55572	NW_004516507.1	Scaffold1252	55572	TT	CC	1947000750
SNP_P4_156828_55609	NW_004516507.1	Scaffold1252	55609	TT	CC	1947000752
SNP_P4_156829_55922	NW_004516507.1	Scaffold1252	55922	AA	GG	1947000754
SNP_P4_156830_56095	NW_004516507.1	Scaffold1252	56095	GG	AA	1947000756
SNP_P4_156831_56527	NW_004516507.1	Scaffold1252	56527	CC	TT	1947000758
SNP_P4_156832_60484	NW_004516507.1	Scaffold1252	60484	TT	CC	1947000760
SNP_P4_156833_60627	NW_004516507.1	Scaffold1252	60627	GG	AA	1947000762
SNP_P4_156834_60974	NW_004516507.1	Scaffold1252	60974	AA	GG	1947000764
SNP_P4_156835_63461	NW_004516507.1	Scaffold1252	63461	TT	CC	1947000766
SNP_P4_156836_63693	NW_004516507.1	Scaffold1252	63693	TT	CC	1947000768
SNP_P4_156837_64021	NW_004516507.1	Scaffold1252	64021	GG	TT	1947000770
SNP_P4_156838_65524	NW_004516507.1	Scaffold1252	65524	GG	AA	1947000772
SNP_P4_156840_69996	NW_004516507.1	Scaffold1252	69996	CC	GG	1947000774
SNP_P4_156841_71418	NW_004516507.1	Scaffold1252	71418	CC	TT	1947000776
SNP_P4_156842_71426	NW_004516507.1	Scaffold1252	71426	GG	AA	1947000778
SNP_P4_156843_71458	NW_004516507.1	Scaffold1252	71458	GG	AA	1947000780
SNP_P4_156844_71738	NW_004516507.1	Scaffold1252	71738	TT	GG	1947000782
SNP_P4_156845_75549	NW_004516507.1	Scaffold1252	75549	TT	CC	1947000784
SNP_P4_156846_75592	NW_004516507.1	Scaffold1252	75592	GG	CC	1947000786
SNP_P4_156847_76642	NW_004516507.1	Scaffold1252	76642	AA	GG	1947000788
SNP_P4_156849_88600	NW_004516507.1	Scaffold1252	88600	AA	GG	1947000790
SNP_P4_156851_91026	NW_004516507.1	Scaffold1252	91026	AA	TT	1947000792
SNP_P4_156852_95675	NW_004516507.1	Scaffold1252	95675	AA	TT	1947000794
SNP_P4_156853_97953	NW_004516507.1	Scaffold1252	97953	TT	CC	1947000796

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_156855_97969	NW_004516507.1	Scaffold1252	97969	GG	AA	1947000800
SNP_P4_156856_97978	NW_004516507.1	Scaffold1252	97978	CC	GG	1947000802
SNP_P4_156857_97988	NW_004516507.1	Scaffold1252	97988	AA	GG	1947000804
SNP_P4_156858_97990	NW_004516507.1	Scaffold1252	97990	AA	TT	1947000806
SNP_P4_156860_98146	NW_004516507.1	Scaffold1252	98146	CC	AA	1947000808
SNP_P4_156861_98150	NW_004516507.1	Scaffold1252	98150	TT	AA	1947000810
SNP_P4_156862_107126	NW_004516507.1	Scaffold1252	107126	AA	GG	1947000812
SNP_P4_156863_107794	NW_004516507.1	Scaffold1252	107794	TT	AA	1947000814
SNP_P4_156864_109003	NW_004516507.1	Scaffold1252	109003	AA	CC	1947000816
SNP_P4_156865_110715	NW_004516507.1	Scaffold1252	110715	TT	GG	1947000818
SNP_P4_156866_112973	NW_004516507.1	Scaffold1252	112973	AA	GG	1947000820
SNP_P4_156867_112988	NW_004516507.1	Scaffold1252	112988	AA	GG	1947000822
SNP_P4_156868_114740	NW_004516507.1	Scaffold1252	114740	AA	GG	1947000824
SNP_P4_156870_1595	NW_004516510.1	Scaffold1255	1595	TT	GG	1947000826
SNP_P4_156871_1601	NW_004516510.1	Scaffold1255	1601	AA	GG	1947000828
SNP_P4_156872_1648	NW_004516510.1	Scaffold1255	1648	CC	TT	1947000830
SNP_P4_156873_1712	NW_004516510.1	Scaffold1255	1712	TT	CC	1947000832
SNP_P4_156874_1718	NW_004516510.1	Scaffold1255	1718	CC	TT	1947000834
SNP_P4_156875_1860	NW_004516510.1	Scaffold1255	1860	GG	AA	1947000836
SNP_P4_156876_1923	NW_004516510.1	Scaffold1255	1923	TT	AA	1947000838
SNP_P4_156877_1967	NW_004516510.1	Scaffold1255	1967	TT	CC	1947000839
SNP_P4_156878_2003	NW_004516510.1	Scaffold1255	2003	AA	GG	1947000841
SNP_P4_156879_2004	NW_004516510.1	Scaffold1255	2004	AA	GG	1947000843
SNP_P4_156880_2025	NW_004516510.1	Scaffold1255	2025	AA	CC	1947000845
SNP_P4_156881_2108	NW_004516510.1	Scaffold1255	2108	CC	TT	1947000847
SNP_P4_156882_2121	NW_004516510.1	Scaffold1255	2121	AA	GG	1947000849
SNP_P4_156883_2155	NW_004516510.1	Scaffold1255	2155	CC	GG	1947000851
SNP_P4_156884_2241	NW_004516510.1	Scaffold1255	2241	AA	CC	1947000853
SNP_P4_156885_2739	NW_004516510.1	Scaffold1255	2739	GG	AA	1947000855
SNP_P4_156886_2748	NW_004516510.1	Scaffold1255	2748	CC	AA	1947000857
SNP_P4_156887_3448	NW_004516510.1	Scaffold1255	3448	TT	AA	1947000859
SNP_P4_156888_7986	NW_004516510.1	Scaffold1255	7986	CC	TT	1947000861
SNP_P4_156889_8162	NW_004516510.1	Scaffold1255	8162	TT	CC	1947000863
SNP_P4_156890_8193	NW_004516510.1	Scaffold1255	8193	TT	CC	1947000865
SNP_P4_156891_8581	NW_004516510.1	Scaffold1255	8581	TT	CC	1947000867
SNP_P4_156892_8701	NW_004516510.1	Scaffold1255	8701	TT	CC	1947000869
SNP_P4_156893_14799	NW_004516510.1	Scaffold1255	14799	GG	AA	1947000871
SNP_P4_156894_14836	NW_004516510.1	Scaffold1255	14836	AA	GG	1947000873
SNP_P4_156895_14840	NW_004516510.1	Scaffold1255	14840	AA	GG	1947000875
SNP_P4_156896_14968	NW_004516510.1	Scaffold1255	14968	CC	GG	1947000877
SNP_P4_156897_14982	NW_004516510.1	Scaffold1255	14982	GG	TT	1947000879

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_156899_17375	NW_004516510.1	Scaffold1255	17375	TT	CC	1947000881
SNP_P4_156900_17422	NW_004516510.1	Scaffold1255	17422	TT	CC	1947000883
SNP_P4_156901_17429	NW_004516510.1	Scaffold1255	17429	TT	GG	1947000885
SNP_P4_156902_17461	NW_004516510.1	Scaffold1255	17461	CC	TT	1947000887
SNP_P4_156903_17537	NW_004516510.1	Scaffold1255	17537	AA	TT	1947000889
SNP_P4_156904_17583	NW_004516510.1	Scaffold1255	17583	TT	AA	1947000891
SNP_P4_156905_17623	NW_004516510.1	Scaffold1255	17623	AA	GG	1947000893
SNP_P4_156906_17653	NW_004516510.1	Scaffold1255	17653	GG	AA	1947000895
SNP_P4_156907_24436	NW_004516510.1	Scaffold1255	24436	GG	AA	1947000897
SNP_P4_156908_24778	NW_004516510.1	Scaffold1255	24778	AA	GG	1947000899
SNP_P4_156909_24799	NW_004516510.1	Scaffold1255	24799	CC	TT	1947000901
SNP_P4_156910_24807	NW_004516510.1	Scaffold1255	24807	TT	CC	1947000903
SNP_P4_156911_24814	NW_004516510.1	Scaffold1255	24814	GG	AA	1947000905
SNP_P4_156912_477	NW_004516511.1	Scaffold1256	477	GG	TT	1947000907
SNP_P4_156913_535	NW_004516511.1	Scaffold1256	535	CC	AA	1947000909
SNP_P4_156915_4126	NW_004516511.1	Scaffold1256	4126	TT	CC	1947000911
SNP_P4_156917_8291	NW_004516511.1	Scaffold1256	8291	CC	TT	1947000913
SNP_P4_156918_13855	NW_004516511.1	Scaffold1256	13855	TT	CC	1947000915
SNP_P4_156919_15576	NW_004516511.1	Scaffold1256	15576	TT	GG	1947000917
SNP_P4_156920_15614	NW_004516511.1	Scaffold1256	15614	TT	AA	1947000919
SNP_P4_156921_15649	NW_004516511.1	Scaffold1256	15649	GG	TT	1947000921
SNP_P4_156922_15903	NW_004516511.1	Scaffold1256	15903	CC	TT	1947000923
SNP_P4_156923_20211	NW_004516511.1	Scaffold1256	20211	GG	AA	1947000925
SNP_P4_156924_20338	NW_004516511.1	Scaffold1256	20338	CC	TT	1947000927
SNP_P4_156925_21064	NW_004516511.1	Scaffold1256	21064	GG	AA	1947000929
SNP_P4_156926_22242	NW_004516511.1	Scaffold1256	22242	CC	TT	1947000931
SNP_P4_156927_23227	NW_004516511.1	Scaffold1256	23227	CC	AA	1947000933
SNP_P4_156928_23991	NW_004516511.1	Scaffold1256	23991	TT	CC	1947000935
SNP_P4_156929_25081	NW_004516511.1	Scaffold1256	25081	CC	TT	1947000937
SNP_P4_156930_25160	NW_004516511.1	Scaffold1256	25160	CC	AA	1947000939
SNP_P4_156931_25166	NW_004516511.1	Scaffold1256	25166	GG	TT	1947000941
SNP_P4_156932_25213	NW_004516511.1	Scaffold1256	25213	GG	AA	1947000943
SNP_P4_156933_25214	NW_004516511.1	Scaffold1256	25214	CC	TT	1947000945
SNP_P4_156934_25321	NW_004516511.1	Scaffold1256	25321	TT	GG	1947000947
SNP_P4_156935_25358	NW_004516511.1	Scaffold1256	25358	CC	TT	1947000949
SNP_P4_156936_25402	NW_004516511.1	Scaffold1256	25402	TT	CC	1947000951
SNP_P4_156937_25422	NW_004516511.1	Scaffold1256	25422	AA	CC	1947000953
SNP_P4_156938_25439	NW_004516511.1	Scaffold1256	25439	AA	TT	1947000955
SNP_P4_156939_30011	NW_004516511.1	Scaffold1256	30011	GG	AA	1947000957
SNP_P4_156940_30305	NW_004516511.1	Scaffold1256	30305	GG	AA	1947000959
SNP_P4_156941_30312	NW_004516511.1	Scaffold1256	30312	GG	AA	1947000961
SNP_P4_156942_31453	NW_004516511.1	Scaffold1256	31453	GG	AA	1947000963

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_156944_32512	NW_004516511.1	Scaffold1256	32512	AA	CC	1947000967
SNP_P4_156945_33114	NW_004516511.1	Scaffold1256	33114	AA	TT	1947000969
SNP_P4_156946_33224	NW_004516511.1	Scaffold1256	33224	AA	GG	1947000971
SNP_P4_156947_33436	NW_004516511.1	Scaffold1256	33436	TT	GG	1947000973
SNP_P4_156948_38137	NW_004516511.1	Scaffold1256	38137	TT	GG	1947000975
SNP_P4_156949_48714	NW_004516511.1	Scaffold1256	48714	AA	GG	1947000977
SNP_P4_156950_49070	NW_004516511.1	Scaffold1256	49070	CC	TT	1947000979
SNP_P4_156952_56197	NW_004516511.1	Scaffold1256	56197	CC	TT	1947000981
SNP_P4_156953_60084	NW_004516511.1	Scaffold1256	60084	TT	GG	1947000983
SNP_P4_156954_62595	NW_004516511.1	Scaffold1256	62595	TT	CC	1947000985
SNP_P4_156955_62628	NW_004516511.1	Scaffold1256	62628	GG	AA	1947000987
SNP_P4_156956_62633	NW_004516511.1	Scaffold1256	62633	CC	GG	1947000989
SNP_P4_156957_62706	NW_004516511.1	Scaffold1256	62706	GG	AA	1947000991
SNP_P4_156958_62716	NW_004516511.1	Scaffold1256	62716	TT	GG	1947000993
SNP_P4_156959_64421	NW_004516511.1	Scaffold1256	64421	GG	AA	1947000995
SNP_P4_156960_65877	NW_004516511.1	Scaffold1256	65877	AA	CC	1947000997
SNP_P4_156961_66456	NW_004516511.1	Scaffold1256	66456	TT	AA	1947000999
SNP_P4_156962_69586	NW_004516511.1	Scaffold1256	69586	AA	TT	1947001001
SNP_P4_156963_69596	NW_004516511.1	Scaffold1256	69596	CC	GG	1947001002
SNP_P4_156964_69635	NW_004516511.1	Scaffold1256	69635	TT	CC	1947001004
SNP_P4_156965_76116	NW_004516511.1	Scaffold1256	76116	AA	TT	1947001006
SNP_P4_156966_87839	NW_004516511.1	Scaffold1256	87839	TT	AA	1947001008
SNP_P4_156967_727	NW_004516513.1	Scaffold1259	727	AA	TT	1947001010
SNP_P4_156968_739	NW_004516513.1	Scaffold1259	739	CC	AA	1947001012
SNP_P4_156970_23766	NW_004516513.1	Scaffold1259	23766	CC	GG	1947001014
SNP_P4_156971_35563	NW_004516513.1	Scaffold1259	35563	TT	CC	1947001016
SNP_P4_156972_65492	NW_004516513.1	Scaffold1259	65492	TT	CC	1947001018
SNP_P4_156973_65976	NW_004516513.1	Scaffold1259	65976	TT	CC	1947001020
SNP_P4_156974_65994	NW_004516513.1	Scaffold1259	65994	TT	CC	1947001022
SNP_P4_156975_66033	NW_004516513.1	Scaffold1259	66033	TT	GG	1947001024
SNP_P4_156976_66035	NW_004516513.1	Scaffold1259	66035	TT	AA	1947001026
SNP_P4_156977_66396	NW_004516513.1	Scaffold1259	66396	AA	TT	1947001027
SNP_P4_156978_66451	NW_004516513.1	Scaffold1259	66451	CC	TT	1947001029
SNP_P4_156979_84731	NW_004516513.1	Scaffold1259	84731	AA	TT	1947001031
SNP_P4_156980_3059	NW_004516518.1	Scaffold1269	3059	TT	AA	1947001033
SNP_P4_156981_3303	NW_004516518.1	Scaffold1269	3303	AA	TT	1947001035
SNP_P4_156982_4470	NW_004516518.1	Scaffold1269	4470	CC	GG	1947001037
SNP_P4_156983_4868	NW_004516518.1	Scaffold1269	4868	CC	AA	1947001039
SNP_P4_156984_102	NW_004516520.1	Scaffold1272	102	AA	GG	1947001041
SNP_P4_156985_106	NW_004516520.1	Scaffold1272	106	TT	CC	1947001043
SNP_P4_156986_131	NW_004516520.1	Scaffold1272	131	CC	TT	1947001045

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_156987_441	NW_004516520.1	Scaffold1272	441	TT	AA	1947001047
SNP_P4_156988_3068	NW_004516520.1	Scaffold1272	3068	CC	AA	1947001049
SNP_P4_156989_12814	NW_004516520.1	Scaffold1272	12814	TT	AA	1947001051
SNP_P4_156990_12873	NW_004516520.1	Scaffold1272	12873	GG	TT	1947001053
SNP_P4_156991_12885	NW_004516520.1	Scaffold1272	12885	GG	AA	1947001055
SNP_P4_156992_12935	NW_004516520.1	Scaffold1272	12935	GG	CC	1947001057
SNP_P4_156993_12956	NW_004516520.1	Scaffold1272	12956	GG	TT	1947001059
SNP_P4_156994_13088	NW_004516520.1	Scaffold1272	13088	AA	GG	1947001061
SNP_P4_156995_13157	NW_004516520.1	Scaffold1272	13157	TT	CC	1947001063
SNP_P4_156996_13162	NW_004516520.1	Scaffold1272	13162	CC	AA	1947001065
SNP_P4_156997_13163	NW_004516520.1	Scaffold1272	13163	AA	GG	1947001066
SNP_P4_156998_13166	NW_004516520.1	Scaffold1272	13166	GG	AA	1947001068
SNP_P4_156999_13212	NW_004516520.1	Scaffold1272	13212	CC	AA	1947001070
SNP_P4_157000_19904	NW_004516520.1	Scaffold1272	19904	CC	TT	1947001072
SNP_P4_157001_20011	NW_004516520.1	Scaffold1272	20011	TT	CC	1947001074
SNP_P4_157003_20204	NW_004516520.1	Scaffold1272	20204	TT	CC	1947001076
SNP_P4_157004_20360	NW_004516520.1	Scaffold1272	20360	AA	TT	1947001078
SNP_P4_157005_21384	NW_004516520.1	Scaffold1272	21384	GG	AA	1947001080
SNP_P4_157006_21394	NW_004516520.1	Scaffold1272	21394	TT	AA	1947001082
SNP_P4_157007_21445	NW_004516520.1	Scaffold1272	21445	AA	TT	1947001084
SNP_P4_157008_21569	NW_004516520.1	Scaffold1272	21569	AA	GG	1947001086
SNP_P4_157009_21627	NW_004516520.1	Scaffold1272	21627	TT	CC	1947001088
SNP_P4_157010_21666	NW_004516520.1	Scaffold1272	21666	AA	GG	1947001090
SNP_P4_157011_21672	NW_004516520.1	Scaffold1272	21672	GG	CC	1947001092
SNP_P4_157012_21715	NW_004516520.1	Scaffold1272	21715	GG	AA	1947001094
SNP_P4_157013_21759	NW_004516520.1	Scaffold1272	21759	TT	GG	1947001096
SNP_P4_157014_21797	NW_004516520.1	Scaffold1272	21797	AA	GG	1947001098
SNP_P4_157015_21798	NW_004516520.1	Scaffold1272	21798	CC	GG	1947001100
SNP_P4_157016_21840	NW_004516520.1	Scaffold1272	21840	AA	GG	1947001102
SNP_P4_157017_48490	NW_004516520.1	Scaffold1272	48490	AA	TT	1947001104
SNP_P4_157018_73439	NW_004516520.1	Scaffold1272	73439	GG	AA	1947001106
SNP_P4_157019_79492	NW_004516520.1	Scaffold1272	79492	GG	AA	1947001108
SNP_P4_157020_86112	NW_004516520.1	Scaffold1272	86112	TT	CC	1947001110
SNP_P4_157021_87036	NW_004516520.1	Scaffold1272	87036	GG	AA	1947001112
SNP_P4_157022_87079	NW_004516520.1	Scaffold1272	87079	AA	TT	1947001114
SNP_P4_157023_87120	NW_004516520.1	Scaffold1272	87120	GG	AA	1947001117
SNP_P4_157024_87145	NW_004516520.1	Scaffold1272	87145	TT	CC	1947001119
SNP_P4_157025_87195	NW_004516520.1	Scaffold1272	87195	TT	CC	1947001121
SNP_P4_157026_87196	NW_004516520.1	Scaffold1272	87196	GG	CC	1947001123
SNP_P4_157027_87197	NW_004516520.1	Scaffold1272	87197	AA	GG	1947001125
SNP_P4_157028_87240	NW_004516520.1	Scaffold1272	87240	AA	GG	1947001127
SNP_P4_157029_87249	NW_004516520.1	Scaffold1272	87249	TT	CC	1947001129

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_157030_87286	NW_004516520.1	Scaffold1272	87286	AA	GG	1947001131
SNP_P4_157031_87579	NW_004516520.1	Scaffold1272	87579	CC	TT	1947001133
SNP_P4_157032_87580	NW_004516520.1	Scaffold1272	87580	AA	GG	1947001135
SNP_P4_157033_87588	NW_004516520.1	Scaffold1272	87588	GG	AA	1947001138
SNP_P4_157034_87589	NW_004516520.1	Scaffold1272	87589	TT	AA	1947001140
SNP_P4_157035_105047	NW_004516520.1	Scaffold1272	105047	AA	TT	1947001142
SNP_P4_157036_107075	NW_004516520.1	Scaffold1272	107075	AA	TT	1947001144
SNP_P4_157037_125614	NW_004516520.1	Scaffold1272	125614	TT	GG	1947001146
SNP_P4_157038_125655	NW_004516520.1	Scaffold1272	125655	CC	GG	1947001148
SNP_P4_157039_130641	NW_004516520.1	Scaffold1272	130641	AA	CC	1947001151
SNP_P4_157040_132559	NW_004516520.1	Scaffold1272	132559	GG	TT	1947001153
SNP_P4_157041_132582	NW_004516520.1	Scaffold1272	132582	CC	TT	1947001155
SNP_P4_157042_132624	NW_004516520.1	Scaffold1272	132624	CC	TT	1947001157
SNP_P4_157043_132630	NW_004516520.1	Scaffold1272	132630	CC	AA	1947001159
SNP_P4_157044_132636	NW_004516520.1	Scaffold1272	132636	TT	CC	1947001161
SNP_P4_157045_132645	NW_004516520.1	Scaffold1272	132645	GG	AA	1947001163
SNP_P4_157046_132652	NW_004516520.1	Scaffold1272	132652	TT	CC	1947001165
SNP_P4_157047_132660	NW_004516520.1	Scaffold1272	132660	AA	GG	1947001167
SNP_P4_157048_132669	NW_004516520.1	Scaffold1272	132669	TT	CC	1947001169
SNP_P4_157049_132675	NW_004516520.1	Scaffold1272	132675	AA	GG	1947001171
SNP_P4_157050_132678	NW_004516520.1	Scaffold1272	132678	AA	GG	1947001173
SNP_P4_157051_132686	NW_004516520.1	Scaffold1272	132686	GG	AA	1947001175
SNP_P4_157052_132717	NW_004516520.1	Scaffold1272	132717	AA	GG	1947001177
SNP_P4_157053_132816	NW_004516520.1	Scaffold1272	132816	TT	CC	1947001179
SNP_P4_157054_133117	NW_004516520.1	Scaffold1272	133117	AA	GG	1947001181
SNP_P4_157055_133765	NW_004516520.1	Scaffold1272	133765	GG	CC	1947001183
SNP_P4_157056_147801	NW_004516520.1	Scaffold1272	147801	GG	AA	1947001185
SNP_P4_157057_147823	NW_004516520.1	Scaffold1272	147823	TT	CC	1947001187
SNP_P4_157058_148152	NW_004516520.1	Scaffold1272	148152	CC	TT	1947001189
SNP_P4_157059_148245	NW_004516520.1	Scaffold1272	148245	AA	CC	1947001191
SNP_P4_157060_148261	NW_004516520.1	Scaffold1272	148261	TT	GG	1947001193
SNP_P4_157061_167466	NW_004516520.1	Scaffold1272	167466	GG	AA	1947001195
SNP_P4_157062_183810	NW_004516520.1	Scaffold1272	183810	TT	CC	1947001197
SNP_P4_157063_190829	NW_004516520.1	Scaffold1272	190829	AA	GG	1947001199
SNP_P4_157064_190960	NW_004516520.1	Scaffold1272	190960	GG	TT	1947001201
SNP_P4_157065_197054	NW_004516520.1	Scaffold1272	197054	CC	TT	1947001203
SNP_P4_157066_197151	NW_004516520.1	Scaffold1272	197151	TT	GG	1947001205
SNP_P4_157067_197663	NW_004516520.1	Scaffold1272	197663	CC	TT	1947001206
SNP_P4_157068_197665	NW_004516520.1	Scaffold1272	197665	GG	AA	1947001208
SNP_P4_157069_197688	NW_004516520.1	Scaffold1272	197688	CC	AA	1947001210
SNP_P4_157070_197693	NW_004516520.1	Scaffold1272	197693	CC	TT	1947001212
SNP_P4_157071_231721	NW_004516520.1	Scaffold1272	231721	TT	CC	1947001214

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_157073_3674	NW_004516522.1	Scaffold1274	3674	AA	GG	1947001218
SNP_P4_157074_3708	NW_004516522.1	Scaffold1274	3708	AA	GG	1947001220
SNP_P4_157075_6680	NW_004516522.1	Scaffold1274	6680	AA	TT	1947001222
SNP_P4_157077_6991	NW_004516522.1	Scaffold1274	6991	CC	GG	1947001224
SNP_P4_157078_7060	NW_004516522.1	Scaffold1274	7060	TT	CC	1947001226
SNP_P4_157079_7062	NW_004516522.1	Scaffold1274	7062	GG	TT	1947001228
SNP_P4_157080_7071	NW_004516522.1	Scaffold1274	7071	GG	AA	1947001230
SNP_P4_157081_7075	NW_004516522.1	Scaffold1274	7075	AA	GG	1947001232
SNP_P4_157082_7191	NW_004516522.1	Scaffold1274	7191	GG	CC	1947001234
SNP_P4_157083_7199	NW_004516522.1	Scaffold1274	7199	AA	TT	1947001236
SNP_P4_157084_7212	NW_004516522.1	Scaffold1274	7212	CC	AA	1947001238
SNP_P4_157085_7230	NW_004516522.1	Scaffold1274	7230	CC	TT	1947001240
SNP_P4_157086_3706	NW_004516523.1	Scaffold1275	3706	GG	AA	1947001242
SNP_P4_157087_5461	NW_004516523.1	Scaffold1275	5461	TT	CC	1947001244
SNP_P4_157088_5470	NW_004516523.1	Scaffold1275	5470	AA	GG	1947001246
SNP_P4_157089_5547	NW_004516523.1	Scaffold1275	5547	GG	CC	1947001248
SNP_P4_157090_5578	NW_004516523.1	Scaffold1275	5578	CC	TT	1947001250
SNP_P4_157091_5691	NW_004516523.1	Scaffold1275	5691	TT	CC	1947001252
SNP_P4_157092_5698	NW_004516523.1	Scaffold1275	5698	TT	CC	1947001254
SNP_P4_157093_5791	NW_004516523.1	Scaffold1275	5791	AA	GG	1947001256
SNP_P4_157094_5820	NW_004516523.1	Scaffold1275	5820	TT	CC	1947001258
SNP_P4_157095_5827	NW_004516523.1	Scaffold1275	5827	TT	CC	1947001260
SNP_P4_157096_5844	NW_004516523.1	Scaffold1275	5844	GG	AA	1947001262
SNP_P4_157097_5860	NW_004516523.1	Scaffold1275	5860	CC	TT	1947001264
SNP_P4_157098_5861	NW_004516523.1	Scaffold1275	5861	AA	GG	1947001266
SNP_P4_157099_5916	NW_004516523.1	Scaffold1275	5916	CC	TT	1947001268
SNP_P4_157100_5917	NW_004516523.1	Scaffold1275	5917	GG	AA	1947001270
SNP_P4_157101_5933	NW_004516523.1	Scaffold1275	5933	TT	CC	1947001272
SNP_P4_157102_5935	NW_004516523.1	Scaffold1275	5935	AA	GG	1947001274
SNP_P4_157103_5972	NW_004516523.1	Scaffold1275	5972	GG	AA	1947001276
SNP_P4_157104_5973	NW_004516523.1	Scaffold1275	5973	AA	GG	1947001278
SNP_P4_157105_5997	NW_004516523.1	Scaffold1275	5997	GG	AA	1947001280
SNP_P4_157106_6003	NW_004516523.1	Scaffold1275	6003	CC	TT	1947001281
SNP_P4_157107_6035	NW_004516523.1	Scaffold1275	6035	TT	AA	1947001283
SNP_P4_157108_6054	NW_004516523.1	Scaffold1275	6054	AA	GG	1947001285
SNP_P4_157109_6055	NW_004516523.1	Scaffold1275	6055	AA	CC	1947001287
SNP_P4_157110_6056	NW_004516523.1	Scaffold1275	6056	GG	CC	1947001289
SNP_P4_157111_6058	NW_004516523.1	Scaffold1275	6058	AA	GG	1947001291
SNP_P4_157112_6181	NW_004516523.1	Scaffold1275	6181	GG	AA	1947001293
SNP_P4_157114_6212	NW_004516523.1	Scaffold1275	6212	TT	CC	1947001295
SNP_P4_157115_6252	NW_004516523.1	Scaffold1275	6252	CC	TT	1947001297

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_157116_6255	NW_004516523.1	Scaffold1275	6255	TT	CC	1947001299
SNP_P4_157117_6363	NW_004516523.1	Scaffold1275	6363	AA	GG	1947001301
SNP_P4_157118_6380	NW_004516523.1	Scaffold1275	6380	TT	CC	1947001303
SNP_P4_157119_6452	NW_004516523.1	Scaffold1275	6452	AA	TT	1947001305
SNP_P4_157120_8574	NW_004516523.1	Scaffold1275	8574	AA	TT	1947001307
SNP_P4_157121_8714	NW_004516523.1	Scaffold1275	8714	CC	TT	1947001309
SNP_P4_157122_12663	NW_004516523.1	Scaffold1275	12663	AA	GG	1947001311
SNP_P4_157123_135	NW_004516524.1	Scaffold1276	135	AA	GG	1947001313
SNP_P4_157124_335	NW_004516524.1	Scaffold1276	335	CC	TT	1947001315
SNP_P4_157125_615	NW_004516524.1	Scaffold1276	615	TT	AA	1947001316
SNP_P4_157126_618	NW_004516524.1	Scaffold1276	618	AA	GG	1947001318
SNP_P4_157127_623	NW_004516524.1	Scaffold1276	623	CC	TT	1947001320
SNP_P4_157128_958	NW_004516524.1	Scaffold1276	958	AA	TT	1947001322
SNP_P4_157129_1052	NW_004516524.1	Scaffold1276	1052	GG	CC	1947001324
SNP_P4_157130_1087	NW_004516524.1	Scaffold1276	1087	CC	AA	1947001326
SNP_P4_157131_1163	NW_004516524.1	Scaffold1276	1163	TT	CC	1947001328
SNP_P4_157132_1178	NW_004516524.1	Scaffold1276	1178	CC	TT	1947001330
SNP_P4_157133_1543	NW_004516524.1	Scaffold1276	1543	GG	AA	1947001332
SNP_P4_157135_2279	NW_004516524.1	Scaffold1276	2279	GG	TT	1947001334
SNP_P4_157136_22147	NW_004516524.1	Scaffold1276	22147	GG	TT	1947001336
SNP_P4_157137_27636	NW_004516524.1	Scaffold1276	27636	GG	CC	1947001338
SNP_P4_157138_29535	NW_004516524.1	Scaffold1276	29535	AA	TT	1947001340
SNP_P4_157139_47797	NW_004516524.1	Scaffold1276	47797	AA	TT	1947001342
SNP_P4_157140_47816	NW_004516524.1	Scaffold1276	47816	TT	GG	1947001343
SNP_P4_157141_48246	NW_004516524.1	Scaffold1276	48246	CC	GG	1947001345
SNP_P4_157142_48281	NW_004516524.1	Scaffold1276	48281	TT	CC	1947001347
SNP_P4_157144_53397	NW_004516524.1	Scaffold1276	53397	CC	GG	1947001349
SNP_P4_157145_53405	NW_004516524.1	Scaffold1276	53405	TT	GG	1947001351
SNP_P4_157146_53436	NW_004516524.1	Scaffold1276	53436	TT	GG	1947001353
SNP_P4_157147_53613	NW_004516524.1	Scaffold1276	53613	GG	TT	1947001355
SNP_P4_157148_57210	NW_004516524.1	Scaffold1276	57210	TT	CC	1947001357
SNP_P4_157149_62487	NW_004516524.1	Scaffold1276	62487	GG	AA	1947001358
SNP_P4_157150_495	NW_004516525.1	Scaffold1278	495	CC	AA	1947001360
SNP_P4_157151_10128	NW_004516525.1	Scaffold1278	10128	TT	CC	1947001362
SNP_P4_157152_10163	NW_004516525.1	Scaffold1278	10163	CC	GG	1947001364
SNP_P4_157153_10538	NW_004516525.1	Scaffold1278	10538	AA	GG	1947001366
SNP_P4_157154_10782	NW_004516525.1	Scaffold1278	10782	CC	AA	1947001368
SNP_P4_157155_10785	NW_004516525.1	Scaffold1278	10785	AA	GG	1947001370
SNP_P4_157156_10794	NW_004516525.1	Scaffold1278	10794	AA	TT	1947001372
SNP_P4_157157_10813	NW_004516525.1	Scaffold1278	10813	AA	GG	1947001374
SNP_P4_157158_10821	NW_004516525.1	Scaffold1278	10821	AA	GG	1947001376
SNP_P4_157159_10855	NW_004516525.1	Scaffold1278	10855	GG	AA	1947001378

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_157161_12762	NW_004516525.1	Scaffold1278	12762	GG	AA	1947001381
SNP_P4_157162_29765	NW_004516525.1	Scaffold1278	29765	AA	GG	1947001383
SNP_P4_157164_34594	NW_004516525.1	Scaffold1278	34594	AA	GG	1947001385
SNP_P4_157166_34804	NW_004516525.1	Scaffold1278	34804	AA	CC	1947001387
SNP_P4_157167_35232	NW_004516525.1	Scaffold1278	35232	TT	CC	1947001389
SNP_P4_157168_35412	NW_004516525.1	Scaffold1278	35412	TT	CC	1947001391
SNP_P4_157169_35427	NW_004516525.1	Scaffold1278	35427	AA	TT	1947001393
SNP_P4_157170_35449	NW_004516525.1	Scaffold1278	35449	GG	TT	1947001395
SNP_P4_157171_35503	NW_004516525.1	Scaffold1278	35503	GG	CC	1947001397
SNP_P4_157172_35856	NW_004516525.1	Scaffold1278	35856	TT	CC	1947001399
SNP_P4_157173_35914	NW_004516525.1	Scaffold1278	35914	CC	TT	1947001400
SNP_P4_157174_35942	NW_004516525.1	Scaffold1278	35942	AA	GG	1947001402
SNP_P4_157176_62193	NW_004516525.1	Scaffold1278	62193	TT	CC	1947001404
SNP_P4_157177_62213	NW_004516525.1	Scaffold1278	62213	GG	AA	1947001406
SNP_P4_157178_62249	NW_004516525.1	Scaffold1278	62249	AA	GG	1947001408
SNP_P4_157179_62271	NW_004516525.1	Scaffold1278	62271	TT	AA	1947001410
SNP_P4_157180_62272	NW_004516525.1	Scaffold1278	62272	GG	AA	1947001412
SNP_P4_157181_62273	NW_004516525.1	Scaffold1278	62273	GG	AA	1947001414
SNP_P4_157182_62278	NW_004516525.1	Scaffold1278	62278	AA	GG	1947001416
SNP_P4_157183_62283	NW_004516525.1	Scaffold1278	62283	CC	AA	1947001418
SNP_P4_157184_62310	NW_004516525.1	Scaffold1278	62310	TT	CC	1947001420
SNP_P4_157185_62326	NW_004516525.1	Scaffold1278	62326	GG	TT	1947001422
SNP_P4_157186_62334	NW_004516525.1	Scaffold1278	62334	TT	CC	1947001423
SNP_P4_157187_62335	NW_004516525.1	Scaffold1278	62335	TT	CC	1947001425
SNP_P4_157188_62346	NW_004516525.1	Scaffold1278	62346	GG	AA	1947001427
SNP_P4_157189_62369	NW_004516525.1	Scaffold1278	62369	CC	AA	1947001429
SNP_P4_157190_62371	NW_004516525.1	Scaffold1278	62371	CC	TT	1947001431
SNP_P4_157191_62511	NW_004516525.1	Scaffold1278	62511	GG	AA	1947001433
SNP_P4_157192_62535	NW_004516525.1	Scaffold1278	62535	GG	AA	1947001435
SNP_P4_157193_62552	NW_004516525.1	Scaffold1278	62552	GG	AA	1947001437
SNP_P4_157194_62721	NW_004516525.1	Scaffold1278	62721	CC	TT	1947001439
SNP_P4_157195_62733	NW_004516525.1	Scaffold1278	62733	TT	CC	1947001441
SNP_P4_157196_62740	NW_004516525.1	Scaffold1278	62740	GG	AA	1947001443
SNP_P4_157197_62749	NW_004516525.1	Scaffold1278	62749	TT	AA	1947001445
SNP_P4_157198_62768	NW_004516525.1	Scaffold1278	62768	GG	AA	1947001447
SNP_P4_157199_62769	NW_004516525.1	Scaffold1278	62769	AA	TT	1947001449
SNP_P4_157200_62836	NW_004516525.1	Scaffold1278	62836	TT	CC	1947001451
SNP_P4_157201_62857	NW_004516525.1	Scaffold1278	62857	GG	AA	1947001453
SNP_P4_157202_62875	NW_004516525.1	Scaffold1278	62875	AA	CC	1947001455
SNP_P4_157203_62879	NW_004516525.1	Scaffold1278	62879	CC	TT	1947001456
SNP_P4_157204_62921	NW_004516525.1	Scaffold1278	62921	TT	GG	1947001458

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_157207_63131	NW_004516525.1	Scaffold1278	63131	TT	CC	1947001462
SNP_P4_157208_63132	NW_004516525.1	Scaffold1278	63132	GG	AA	1947001464
SNP_P4_157209_63158	NW_004516525.1	Scaffold1278	63158	TT	CC	1947001466
SNP_P4_157210_63160	NW_004516525.1	Scaffold1278	63160	AA	CC	1947001468
SNP_P4_157211_63192	NW_004516525.1	Scaffold1278	63192	AA	GG	1947001470
SNP_P4_157212_63215	NW_004516525.1	Scaffold1278	63215	GG	AA	1947001472
SNP_P4_157213_63237	NW_004516525.1	Scaffold1278	63237	CC	TT	1947001474
SNP_P4_157216_63317	NW_004516525.1	Scaffold1278	63317	TT	CC	1947001476
SNP_P4_157217_63319	NW_004516525.1	Scaffold1278	63319	AA	GG	1947001478
SNP_P4_157218_63354	NW_004516525.1	Scaffold1278	63354	AA	GG	1947001480
SNP_P4_157219_63387	NW_004516525.1	Scaffold1278	63387	AA	GG	1947001482
SNP_P4_157221_83765	NW_004516525.1	Scaffold1278	83765	TT	CC	1947001484
SNP_P4_157222_84020	NW_004516525.1	Scaffold1278	84020	GG	AA	1947001486
SNP_P4_157223_88725	NW_004516525.1	Scaffold1278	88725	GG	AA	1947001488
SNP_P4_157224_95436	NW_004516525.1	Scaffold1278	95436	CC	AA	1947001490
SNP_P4_157225_95444	NW_004516525.1	Scaffold1278	95444	GG	AA	1947001492
SNP_P4_157226_95459	NW_004516525.1	Scaffold1278	95459	TT	CC	1947001494
SNP_P4_157227_95500	NW_004516525.1	Scaffold1278	95500	AA	CC	1947001496
SNP_P4_157228_95505	NW_004516525.1	Scaffold1278	95505	AA	TT	1947001498
SNP_P4_157229_95516	NW_004516525.1	Scaffold1278	95516	TT	CC	1947001500
SNP_P4_157230_95548	NW_004516525.1	Scaffold1278	95548	TT	GG	1947001502
SNP_P4_157231_95825	NW_004516525.1	Scaffold1278	95825	CC	AA	1947001504
SNP_P4_157232_95878	NW_004516525.1	Scaffold1278	95878	AA	CC	1947001506
SNP_P4_157233_95990	NW_004516525.1	Scaffold1278	95990	AA	GG	1947001508
SNP_P4_157234_96018	NW_004516525.1	Scaffold1278	96018	AA	GG	1947001510
SNP_P4_157235_99984	NW_004516525.1	Scaffold1278	99984	AA	GG	1947001512
SNP_P4_157236_473	NW_004516526.1	Scaffold1279	473	CC	TT	1947001514
SNP_P4_157237_478	NW_004516526.1	Scaffold1279	478	TT	CC	1947001516
SNP_P4_157238_542	NW_004516526.1	Scaffold1279	542	TT	GG	1947001518
SNP_P4_157239_597	NW_004516526.1	Scaffold1279	597	TT	CC	1947001520
SNP_P4_157241_1539	NW_004516527.1	Scaffold1281	1539	TT	AA	1947001522
SNP_P4_157242_1886	NW_004516527.1	Scaffold1281	1886	TT	GG	1947001524
SNP_P4_157243_15378	NW_004516527.1	Scaffold1281	15378	AA	CC	1947001526
SNP_P4_157244_16305	NW_004516527.1	Scaffold1281	16305	TT	CC	1947001528
SNP_P4_157245_46576	NW_004516527.1	Scaffold1281	46576	CC	AA	1947001530
SNP_P4_157246_46768	NW_004516527.1	Scaffold1281	46768	AA	GG	1947001532
SNP_P4_157247_46810	NW_004516527.1	Scaffold1281	46810	GG	AA	1947001534
SNP_P4_157248_47382	NW_004516527.1	Scaffold1281	47382	TT	CC	1947001536
SNP_P4_157249_47457	NW_004516527.1	Scaffold1281	47457	CC	GG	1947001538
SNP_P4_157250_48284	NW_004516527.1	Scaffold1281	48284	GG	AA	1947001540
SNP_P4_157251_48404	NW_004516527.1	Scaffold1281	48404	AA	TT	1947001542

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_157253_51547	NW_004516527.1	Scaffold1281	51547	GG	AA	1947001546
SNP_P4_157254_51752	NW_004516527.1	Scaffold1281	51752	AA	GG	1947001548
SNP_P4_157255_51809	NW_004516527.1	Scaffold1281	51809	CC	TT	1947001550
SNP_P4_157256_51921	NW_004516527.1	Scaffold1281	51921	TT	AA	1947001552
SNP_P4_157257_52043	NW_004516527.1	Scaffold1281	52043	CC	AA	1947001554
SNP_P4_157258_57470	NW_004516527.1	Scaffold1281	57470	AA	GG	1947001556
SNP_P4_157259_63347	NW_004516527.1	Scaffold1281	63347	CC	TT	1947001558
SNP_P4_157260_72851	NW_004516527.1	Scaffold1281	72851	TT	CC	1947001560
SNP_P4_157261_75370	NW_004516527.1	Scaffold1281	75370	CC	TT	1947001562
SNP_P4_157262_75374	NW_004516527.1	Scaffold1281	75374	AA	TT	1947001564
SNP_P4_157263_75641	NW_004516527.1	Scaffold1281	75641	CC	TT	1947001566
SNP_P4_157264_84721	NW_004516527.1	Scaffold1281	84721	TT	GG	1947001568
SNP_P4_157265_84725	NW_004516527.1	Scaffold1281	84725	AA	GG	1947001570
SNP_P4_157266_111724	NW_004516527.1	Scaffold1281	111724	AA	GG	1947001572
SNP_P4_157267_118045	NW_004516527.1	Scaffold1281	118045	AA	TT	1947001574
SNP_P4_157268_118046	NW_004516527.1	Scaffold1281	118046	AA	TT	1947001576
SNP_P4_157269_118047	NW_004516527.1	Scaffold1281	118047	TT	AA	1947001578
SNP_P4_157270_118053	NW_004516527.1	Scaffold1281	118053	GG	AA	1947001580
SNP_P4_157271_138951	NW_004516527.1	Scaffold1281	138951	TT	CC	1947001582
SNP_P4_157272_160415	NW_004516527.1	Scaffold1281	160415	AA	GG	1947001584
SNP_P4_157274_166134	NW_004516527.1	Scaffold1281	166134	AA	GG	1947001586
SNP_P4_157277_283131	NW_004516527.1	Scaffold1281	283131	AA	GG	1947001588
SNP_P4_157278_296635	NW_004516527.1	Scaffold1281	296635	AA	CC	1947001590
SNP_P4_157279_297003	NW_004516527.1	Scaffold1281	297003	GG	AA	1947001592
SNP_P4_157280_297006	NW_004516527.1	Scaffold1281	297006	CC	TT	1947001594
SNP_P4_157281_308631	NW_004516527.1	Scaffold1281	308631	GG	AA	1947001596
SNP_P4_157285_376175	NW_004516527.1	Scaffold1281	376175	CC	GG	1947001598
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SNP_P4_157288_376414	NW_004516527.1	Scaffold1281	376414	CC	TT	1947001602
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SNP_P4_157290_376537	NW_004516527.1	Scaffold1281	376537	GG	TT	1947001606
SNP_P4_157291_405059	NW_004516527.1	Scaffold1281	405059	GG	AA	1947001608
SNP_P4_157293_414752	NW_004516527.1	Scaffold1281	414752	TT	GG	1947001610
SNP_P4_157294_435240	NW_004516527.1	Scaffold1281	435240	GG	AA	1947001612
SNP_P4_157297_467352	NW_004516527.1	Scaffold1281	467352	GG	AA	1947001613
SNP_P4_157298_467387	NW_004516527.1	Scaffold1281	467387	AA	GG	1947001615
SNP_P4_157299_469010	NW_004516527.1	Scaffold1281	469010	CC	TT	1947001617
SNP_P4_157301_470972	NW_004516527.1	Scaffold1281	470972	AA	TT	1947001619
SNP_P4_157302_471201	NW_004516527.1	Scaffold1281	471201	CC	TT	1947001621
SNP_P4_157303_471371	NW_004516527.1	Scaffold1281	471371	CC	TT	1947001623
SNP_P4_157304_471404	NW_004516527.1	Scaffold1281	471404	GG	AA	1947001625

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_157306_471476	NW_004516527.1	Scaffold1281	471476	CC	AA	1947001629
SNP_P4_157307_471502	NW_004516527.1	Scaffold1281	471502	TT	CC	1947001631
SNP_P4_157308_471580	NW_004516527.1	Scaffold1281	471580	TT	GG	1947001632
SNP_P4_157310_471940	NW_004516527.1	Scaffold1281	471940	AA	GG	1947001634
SNP_P4_157311_472102	NW_004516527.1	Scaffold1281	472102	TT	CC	1947001636
SNP_P4_157314_475676	NW_004516527.1	Scaffold1281	475676	GG	AA	1947001638
SNP_P4_157315_475918	NW_004516527.1	Scaffold1281	475918	AA	GG	1947001640
SNP_P4_157316_492031	NW_004516527.1	Scaffold1281	492031	AA	GG	1947001642
SNP_P4_157317_492039	NW_004516527.1	Scaffold1281	492039	AA	TT	1947001644
SNP_P4_157318_492041	NW_004516527.1	Scaffold1281	492041	GG	TT	1947001646
SNP_P4_157319_492128	NW_004516527.1	Scaffold1281	492128	AA	GG	1947001648
SNP_P4_157320_492145	NW_004516527.1	Scaffold1281	492145	CC	GG	1947001650
SNP_P4_157323_492357	NW_004516527.1	Scaffold1281	492357	CC	AA	1947001652
SNP_P4_157324_492365	NW_004516527.1	Scaffold1281	492365	TT	CC	1947001654
SNP_P4_157325_492369	NW_004516527.1	Scaffold1281	492369	CC	AA	1947001655
SNP_P4_157326_492375	NW_004516527.1	Scaffold1281	492375	CC	AA	1947001657
SNP_P4_157327_492386	NW_004516527.1	Scaffold1281	492386	CC	GG	1947001659
SNP_P4_157328_492389	NW_004516527.1	Scaffold1281	492389	TT	CC	1947001661
SNP_P4_157329_492402	NW_004516527.1	Scaffold1281	492402	CC	GG	1947001663
SNP_P4_157330_492455	NW_004516527.1	Scaffold1281	492455	AA	GG	1947001665
SNP_P4_157331_503796	NW_004516527.1	Scaffold1281	503796	AA	CC	1947001667
SNP_P4_157332_503809	NW_004516527.1	Scaffold1281	503809	GG	TT	1947001669
SNP_P4_157333_503894	NW_004516527.1	Scaffold1281	503894	TT	CC	1947001671
SNP_P4_157334_503919	NW_004516527.1	Scaffold1281	503919	TT	CC	1947001673
SNP_P4_157335_503957	NW_004516527.1	Scaffold1281	503957	TT	GG	1947001675
SNP_P4_157336_504024	NW_004516527.1	Scaffold1281	504024	TT	GG	1947001676
SNP_P4_157337_504098	NW_004516527.1	Scaffold1281	504098	GG	TT	1947001678
SNP_P4_157338_504107	NW_004516527.1	Scaffold1281	504107	TT	CC	1947001680
SNP_P4_157339_504115	NW_004516527.1	Scaffold1281	504115	TT	CC	1947001682
SNP_P4_157340_504134	NW_004516527.1	Scaffold1281	504134	GG	TT	1947001684
SNP_P4_157341_504138	NW_004516527.1	Scaffold1281	504138	CC	TT	1947001686
SNP_P4_157342_504281	NW_004516527.1	Scaffold1281	504281	AA	CC	1947001688
SNP_P4_157343_504551	NW_004516527.1	Scaffold1281	504551	GG	AA	1947001690
SNP_P4_157344_516222	NW_004516527.1	Scaffold1281	516222	GG	AA	1947001692
SNP_P4_157345_518041	NW_004516527.1	Scaffold1281	518041	CC	TT	1947001694
SNP_P4_157346_518052	NW_004516527.1	Scaffold1281	518052	GG	AA	1947001696
SNP_P4_157347_4166	NW_004516528.1	Scaffold1283	4166	CC	AA	1947001698
SNP_P4_157348_4385	NW_004516528.1	Scaffold1283	4385	AA	GG	1947001700
SNP_P4_157349_4887	NW_004516528.1	Scaffold1283	4887	CC	TT	1947001702
SNP_P4_157350_13480	NW_004516528.1	Scaffold1283	13480	TT	GG	1947001704
SNP_P4_157351_13497	NW_004516528.1	Scaffold1283	13497	TT	CC	1947001706

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_157352_13834	NW_004516528.1	Scaffold1283	13834	AA	TT	1947001708
SNP_P4_157353_13835	NW_004516528.1	Scaffold1283	13835	TT	CC	1947001710
SNP_P4_157354_13841	NW_004516528.1	Scaffold1283	13841	TT	GG	1947001712
SNP_P4_157355_47105	NW_004516528.1	Scaffold1283	47105	GG	TT	1947001714
SNP_P4_157356_47107	NW_004516528.1	Scaffold1283	47107	TT	CC	1947001716
SNP_P4_157357_53805	NW_004516528.1	Scaffold1283	53805	TT	AA	1947001718
SNP_P4_157358_53816	NW_004516528.1	Scaffold1283	53816	TT	AA	1947001720
SNP_P4_157359_54000	NW_004516528.1	Scaffold1283	54000	CC	GG	1947001722
SNP_P4_157360_54191	NW_004516528.1	Scaffold1283	54191	GG	TT	1947001724
SNP_P4_157361_54204	NW_004516528.1	Scaffold1283	54204	AA	GG	1947001727
SNP_P4_157362_54217	NW_004516528.1	Scaffold1283	54217	CC	TT	1947001729
SNP_P4_157363_54224	NW_004516528.1	Scaffold1283	54224	AA	TT	1947001731
SNP_P4_157364_54237	NW_004516528.1	Scaffold1283	54237	GG	TT	1947001733
SNP_P4_157365_586	NW_004516529.1	Scaffold1285	586	AA	GG	1947001735
SNP_P4_157366_39362	NW_004516529.1	Scaffold1285	39362	TT	GG	1947001736
SNP_P4_157367_39708	NW_004516529.1	Scaffold1285	39708	TT	CC	1947001738
SNP_P4_157368_65271	NW_004516529.1	Scaffold1285	65271	AA	GG	1947001740
SNP_P4_157369_65273	NW_004516529.1	Scaffold1285	65273	TT	CC	1947001742
SNP_P4_157370_65327	NW_004516529.1	Scaffold1285	65327	TT	CC	1947001744
SNP_P4_157371_65694	NW_004516529.1	Scaffold1285	65694	GG	AA	1947001746
SNP_P4_157372_67137	NW_004516529.1	Scaffold1285	67137	AA	GG	1947001748
SNP_P4_157373_67139	NW_004516529.1	Scaffold1285	67139	TT	AA	1947001750
SNP_P4_157374_67146	NW_004516529.1	Scaffold1285	67146	CC	AA	1947001752
SNP_P4_157375_67274	NW_004516529.1	Scaffold1285	67274	TT	CC	1947001754
SNP_P4_157376_67281	NW_004516529.1	Scaffold1285	67281	AA	GG	1947001757
SNP_P4_157377_67301	NW_004516529.1	Scaffold1285	67301	AA	GG	1947001759
SNP_P4_157378_67418	NW_004516529.1	Scaffold1285	67418	TT	GG	1947001761
SNP_P4_157379_67454	NW_004516529.1	Scaffold1285	67454	TT	GG	1947001763
SNP_P4_157380_67467	NW_004516529.1	Scaffold1285	67467	AA	TT	1947001765
SNP_P4_157381_67548	NW_004516529.1	Scaffold1285	67548	TT	AA	1947001767
SNP_P4_157382_67556	NW_004516529.1	Scaffold1285	67556	AA	GG	1947001769
SNP_P4_157383_67598	NW_004516529.1	Scaffold1285	67598	GG	AA	1947001771
SNP_P4_157384_67602	NW_004516529.1	Scaffold1285	67602	AA	CC	1947001773
SNP_P4_157385_67603	NW_004516529.1	Scaffold1285	67603	TT	CC	1947001775
SNP_P4_157386_67618	NW_004516529.1	Scaffold1285	67618	AA	CC	1947001777
SNP_P4_157387_67695	NW_004516529.1	Scaffold1285	67695	TT	CC	1947001779
SNP_P4_157388_68126	NW_004516529.1	Scaffold1285	68126	GG	TT	1947001781
SNP_P4_157389_73203	NW_004516529.1	Scaffold1285	73203	GG	CC	1947001783
SNP_P4_157390_73206	NW_004516529.1	Scaffold1285	73206	CC	TT	1947001786
SNP_P4_157391_96358	NW_004516529.1	Scaffold1285	96358	TT	CC	1947001788
SNP_P4_157392_99026	NW_004516529.1	Scaffold1285	99026	AA	GG	1947001790
SNP_P4_157393_99127	NW_004516529.1	Scaffold1285	99127	AA	GG	1947001792

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_157394_99128	NW_004516529.1	Scaffold1285	99128	AA	GG	1947001794
SNP_P4_157395_149125	NW_004516529.1	Scaffold1285	149125	GG	AA	1947001796
SNP_P4_157396_154780	NW_004516529.1	Scaffold1285	154780	TT	AA	1947001798
SNP_P4_157397_155993	NW_004516529.1	Scaffold1285	155993	GG	AA	1947001800
SNP_P4_157398_160414	NW_004516529.1	Scaffold1285	160414	GG	TT	1947001802
SNP_P4_157399_170876	NW_004516529.1	Scaffold1285	170876	AA	GG	1947001804
SNP_P4_157400_182564	NW_004516529.1	Scaffold1285	182564	AA	GG	1947001806
SNP_P4_157401_194137	NW_004516529.1	Scaffold1285	194137	TT	AA	1947001808
SNP_P4_157402_199145	NW_004516529.1	Scaffold1285	199145	AA	GG	1947001810
SNP_P4_157403_199152	NW_004516529.1	Scaffold1285	199152	CC	TT	1947001812
SNP_P4_157404_199169	NW_004516529.1	Scaffold1285	199169	AA	GG	1947001814
SNP_P4_157405_199383	NW_004516529.1	Scaffold1285	199383	CC	GG	1947001816
SNP_P4_157406_199434	NW_004516529.1	Scaffold1285	199434	CC	GG	1947001818
SNP_P4_157407_202253	NW_004516529.1	Scaffold1285	202253	TT	GG	1947001821
SNP_P4_157408_202290	NW_004516529.1	Scaffold1285	202290	GG	AA	1947001823
SNP_P4_157409_202703	NW_004516529.1	Scaffold1285	202703	CC	TT	1947001825
SNP_P4_157410_202717	NW_004516529.1	Scaffold1285	202717	CC	AA	1947001827
SNP_P4_157411_203998	NW_004516529.1	Scaffold1285	203998	TT	GG	1947001829
SNP_P4_157412_204225	NW_004516529.1	Scaffold1285	204225	AA	GG	1947001831
SNP_P4_157413_204289	NW_004516529.1	Scaffold1285	204289	AA	TT	1947001833
SNP_P4_157414_204474	NW_004516529.1	Scaffold1285	204474	TT	CC	1947001835
SNP_P4_157415_204605	NW_004516529.1	Scaffold1285	204605	CC	TT	1947001837
SNP_P4_157416_210969	NW_004516529.1	Scaffold1285	210969	AA	CC	1947001839
SNP_P4_157417_210981	NW_004516529.1	Scaffold1285	210981	AA	TT	1947001841
SNP_P4_157418_210992	NW_004516529.1	Scaffold1285	210992	CC	TT	1947001843
SNP_P4_157419_210995	NW_004516529.1	Scaffold1285	210995	TT	CC	1947001845
SNP_P4_157420_211052	NW_004516529.1	Scaffold1285	211052	TT	GG	1947001847
SNP_P4_157421_211059	NW_004516529.1	Scaffold1285	211059	TT	CC	1947001849
SNP_P4_157422_211065	NW_004516529.1	Scaffold1285	211065	CC	AA	1947001851
SNP_P4_157423_211390	NW_004516529.1	Scaffold1285	211390	GG	TT	1947001853
SNP_P4_157424_235117	NW_004516529.1	Scaffold1285	235117	GG	AA	1947001855
SNP_P4_157425_239631	NW_004516529.1	Scaffold1285	239631	AA	GG	1947001857
SNP_P4_157426_239666	NW_004516529.1	Scaffold1285	239666	AA	CC	1947001859
SNP_P4_157427_239869	NW_004516529.1	Scaffold1285	239869	AA	CC	1947001861
SNP_P4_157428_239884	NW_004516529.1	Scaffold1285	239884	AA	GG	1947001863
SNP_P4_157429_240298	NW_004516529.1	Scaffold1285	240298	CC	TT	1947001865
SNP_P4_157430_251436	NW_004516529.1	Scaffold1285	251436	TT	GG	1947001867
SNP_P4_157431_252943	NW_004516529.1	Scaffold1285	252943	AA	GG	1947001869
SNP_P4_157432_252979	NW_004516529.1	Scaffold1285	252979	TT	CC	1947001871
SNP_P4_157433_278303	NW_004516529.1	Scaffold1285	278303	CC	TT	1947001873
SNP_P4_157434_278487	NW_004516529.1	Scaffold1285	278487	AA	GG	1947001875
SNP_P4_157435_278501	NW_004516529.1	Scaffold1285	278501	TT	GG	1947001877

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_157437_278535	NW_004516529.1	Scaffold1285	278535	TT	AA	1947001881
SNP_P4_157438_278887	NW_004516529.1	Scaffold1285	278887	GG	TT	1947001883
SNP_P4_157439_279049	NW_004516529.1	Scaffold1285	279049	CC	TT	1947001885
SNP_P4_157440_279057	NW_004516529.1	Scaffold1285	279057	CC	AA	1947001887
SNP_P4_157441_279058	NW_004516529.1	Scaffold1285	279058	AA	GG	1947001889
SNP_P4_157442_326318	NW_004516529.1	Scaffold1285	326318	AA	GG	1947001891
SNP_P4_157443_326725	NW_004516529.1	Scaffold1285	326725	GG	AA	1947001893
SNP_P4_157444_327283	NW_004516529.1	Scaffold1285	327283	GG	AA	1947001895
SNP_P4_157445_330938	NW_004516529.1	Scaffold1285	330938	AA	CC	1947001897
SNP_P4_157446_331711	NW_004516529.1	Scaffold1285	331711	TT	CC	1947001899
SNP_P4_157447_331811	NW_004516529.1	Scaffold1285	331811	AA	GG	1947001901
SNP_P4_157448_332169	NW_004516529.1	Scaffold1285	332169	TT	CC	1947001903
SNP_P4_157449_1038	NW_004516530.1	Scaffold1286	1038	AA	CC	1947001905
SNP_P4_157450_2249	NW_004516530.1	Scaffold1286	2249	TT	CC	1947001907
SNP_P4_157451_2309	NW_004516530.1	Scaffold1286	2309	TT	AA	1947001909
SNP_P4_157452_2482	NW_004516530.1	Scaffold1286	2482	GG	TT	1947001911
SNP_P4_157453_2486	NW_004516530.1	Scaffold1286	2486	CC	TT	1947001913
SNP_P4_157454_2491	NW_004516530.1	Scaffold1286	2491	CC	TT	1947001915
SNP_P4_157455_8646	NW_004516530.1	Scaffold1286	8646	CC	AA	1947001917
SNP_P4_157456_8712	NW_004516530.1	Scaffold1286	8712	TT	GG	1947001919
SNP_P4_157457_11130	NW_004516530.1	Scaffold1286	11130	TT	AA	1947001921
SNP_P4_157458_15380	NW_004516530.1	Scaffold1286	15380	CC	GG	1947001923
SNP_P4_157459_15388	NW_004516530.1	Scaffold1286	15388	TT	AA	1947001925
SNP_P4_157460_15429	NW_004516530.1	Scaffold1286	15429	GG	TT	1947001927
SNP_P4_157461_15455	NW_004516530.1	Scaffold1286	15455	GG	CC	1947001929
SNP_P4_157462_15547	NW_004516530.1	Scaffold1286	15547	CC	TT	1947001931
SNP_P4_157463_15559	NW_004516530.1	Scaffold1286	15559	CC	GG	1947001933
SNP_P4_157464_15626	NW_004516530.1	Scaffold1286	15626	CC	GG	1947001935
SNP_P4_157465_15664	NW_004516530.1	Scaffold1286	15664	AA	TT	1947001937
SNP_P4_157466_15689	NW_004516530.1	Scaffold1286	15689	AA	CC	1947001939
SNP_P4_157467_15741	NW_004516530.1	Scaffold1286	15741	AA	CC	1947001941
SNP_P4_157468_15843	NW_004516530.1	Scaffold1286	15843	TT	CC	1947001943
SNP_P4_157469_15901	NW_004516530.1	Scaffold1286	15901	TT	AA	1947001945
SNP_P4_157470_16194	NW_004516530.1	Scaffold1286	16194	TT	GG	1947001947
SNP_P4_157471_16472	NW_004516530.1	Scaffold1286	16472	GG	AA	1947001949
SNP_P4_157472_686	NW_004516532.1	Scaffold1290	686	AA	TT	1947001951
SNP_P4_157473_64	NW_004516533.1	Scaffold1291	64	AA	GG	1947001953
SNP_P4_157474_65	NW_004516533.1	Scaffold1291	65	AA	GG	1947001955
SNP_P4_157476_4633	NW_004516534.1	Scaffold1292	4633	TT	AA	1947001957
SNP_P4_157477_5454	NW_004516534.1	Scaffold1292	5454	TT	AA	1947001959
SNP_P4_157478_5475	NW_004516534.1	Scaffold1292	5475	CC	GG	1947001961

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_157481_8032	NW_004516534.1	Scaffold1292	8032	TT	CC	1947001965
SNP_P4_157482_8136	NW_004516534.1	Scaffold1292	8136	AA	GG	1947001967
SNP_P4_157483_8147	NW_004516534.1	Scaffold1292	8147	TT	AA	1947001969
SNP_P4_157484_8181	NW_004516534.1	Scaffold1292	8181	TT	AA	1947001971
SNP_P4_157485_8196	NW_004516534.1	Scaffold1292	8196	CC	AA	1947001973
SNP_P4_157486_8200	NW_004516534.1	Scaffold1292	8200	GG	TT	1947001975
SNP_P4_157487_8221	NW_004516534.1	Scaffold1292	8221	TT	CC	1947001977
SNP_P4_157488_8270	NW_004516534.1	Scaffold1292	8270	TT	GG	1947001979
SNP_P4_157490_4524	NW_004516535.1	Scaffold1293	4524	AA	GG	1947001981
SNP_P4_157491_4786	NW_004516535.1	Scaffold1293	4786	GG	TT	1947001983
SNP_P4_157492_4802	NW_004516535.1	Scaffold1293	4802	CC	TT	1947001985
SNP_P4_157493_4809	NW_004516535.1	Scaffold1293	4809	CC	GG	1947001987
SNP_P4_157494_4848	NW_004516535.1	Scaffold1293	4848	TT	GG	1947001989
SNP_P4_157495_31604	NW_004516535.1	Scaffold1293	31604	GG	AA	1947001991
SNP_P4_157496_31666	NW_004516535.1	Scaffold1293	31666	AA	CC	1947001993
SNP_P4_157497_31675	NW_004516535.1	Scaffold1293	31675	AA	TT	1947001995
SNP_P4_157498_31689	NW_004516535.1	Scaffold1293	31689	CC	TT	1947001997
SNP_P4_157499_31733	NW_004516535.1	Scaffold1293	31733	AA	TT	1947001999
SNP_P4_157500_32031	NW_004516535.1	Scaffold1293	32031	CC	TT	1947002001
SNP_P4_157501_37431	NW_004516535.1	Scaffold1293	37431	GG	TT	1947002003
SNP_P4_157502_44413	NW_004516535.1	Scaffold1293	44413	AA	GG	1947002005
SNP_P4_157503_44426	NW_004516535.1	Scaffold1293	44426	TT	CC	1947002007
SNP_P4_157504_44441	NW_004516535.1	Scaffold1293	44441	TT	GG	1947002009
SNP_P4_157505_44790	NW_004516535.1	Scaffold1293	44790	AA	GG	1947002011
SNP_P4_157506_44863	NW_004516535.1	Scaffold1293	44863	AA	GG	1947002013
SNP_P4_157507_44867	NW_004516535.1	Scaffold1293	44867	CC	GG	1947002015
SNP_P4_157508_44897	NW_004516535.1	Scaffold1293	44897	GG	AA	1947002017
SNP_P4_157509_67174	NW_004516535.1	Scaffold1293	67174	CC	TT	1947002019
SNP_P4_157510_67196	NW_004516535.1	Scaffold1293	67196	CC	TT	1947002021
SNP_P4_157511_67558	NW_004516535.1	Scaffold1293	67558	TT	AA	1947002023
SNP_P4_157513_68226	NW_004516535.1	Scaffold1293	68226	GG	TT	1947002025
SNP_P4_157514_68243	NW_004516535.1	Scaffold1293	68243	CC	TT	1947002027
SNP_P4_157515_68507	NW_004516535.1	Scaffold1293	68507	AA	GG	1947002029
SNP_P4_157516_68556	NW_004516535.1	Scaffold1293	68556	AA	GG	1947002031
SNP_P4_157517_68784	NW_004516535.1	Scaffold1293	68784	CC	GG	1947002033
SNP_P4_157518_71065	NW_004516535.1	Scaffold1293	71065	TT	CC	1947002035
SNP_P4_157519_71920	NW_004516535.1	Scaffold1293	71920	AA	TT	1947002037
SNP_P4_157520_72373	NW_004516535.1	Scaffold1293	72373	CC	AA	1947002039
SNP_P4_157521_72394	NW_004516535.1	Scaffold1293	72394	GG	AA	1947002041
SNP_P4_157522_78795	NW_004516535.1	Scaffold1293	78795	AA	CC	1947002042
SNP_P4_157523_79139	NW_004516535.1	Scaffold1293	79139	AA	TT	1947002044

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_157525_79234	NW_004516535.1	Scaffold1293	79234	GG	CC	1947002048
SNP_P4_157526_79330	NW_004516535.1	Scaffold1293	79330	TT	AA	1947002050
SNP_P4_157527_87835	NW_004516535.1	Scaffold1293	87835	AA	TT	1947002052
SNP_P4_157528_88022	NW_004516535.1	Scaffold1293	88022	TT	AA	1947002054
SNP_P4_157529_88227	NW_004516535.1	Scaffold1293	88227	TT	CC	1947002056
SNP_P4_157530_88500	NW_004516535.1	Scaffold1293	88500	GG	CC	1947002058
SNP_P4_157531_88516	NW_004516535.1	Scaffold1293	88516	AA	CC	1947002060
SNP_P4_157532_88715	NW_004516535.1	Scaffold1293	88715	GG	AA	1947002061
SNP_P4_157533_91334	NW_004516535.1	Scaffold1293	91334	GG	TT	1947002063
SNP_P4_157534_91584	NW_004516535.1	Scaffold1293	91584	CC	GG	1947002065
SNP_P4_157535_91918	NW_004516535.1	Scaffold1293	91918	AA	TT	1947002067
SNP_P4_157536_92476	NW_004516535.1	Scaffold1293	92476	GG	AA	1947002069
SNP_P4_157537_1196	NW_004516536.1	Scaffold1294	1196	TT	CC	1947002071
SNP_P4_157538_4847	NW_004516536.1	Scaffold1294	4847	GG	CC	1947002073
SNP_P4_157539_4969	NW_004516536.1	Scaffold1294	4969	AA	CC	1947002075
SNP_P4_157540_16436	NW_004516536.1	Scaffold1294	16436	TT	GG	1947002077
SNP_P4_157541_16760	NW_004516536.1	Scaffold1294	16760	TT	CC	1947002079
SNP_P4_157542_16851	NW_004516536.1	Scaffold1294	16851	GG	TT	1947002081
SNP_P4_157543_20741	NW_004516536.1	Scaffold1294	20741	AA	GG	1947002083
SNP_P4_157544_26580	NW_004516536.1	Scaffold1294	26580	AA	GG	1947002084
SNP_P4_157545_26581	NW_004516536.1	Scaffold1294	26581	TT	AA	1947002086
SNP_P4_157546_26589	NW_004516536.1	Scaffold1294	26589	AA	GG	1947002088
SNP_P4_157547_26623	NW_004516536.1	Scaffold1294	26623	GG	CC	1947002090
SNP_P4_157548_26808	NW_004516536.1	Scaffold1294	26808	GG	CC	1947002092
SNP_P4_157549_26848	NW_004516536.1	Scaffold1294	26848	TT	GG	1947002094
SNP_P4_157550_26867	NW_004516536.1	Scaffold1294	26867	CC	TT	1947002096
SNP_P4_157551_27183	NW_004516536.1	Scaffold1294	27183	TT	AA	1947002098
SNP_P4_157552_28723	NW_004516536.1	Scaffold1294	28723	TT	AA	1947002100
SNP_P4_157553_28735	NW_004516536.1	Scaffold1294	28735	GG	CC	1947002102
SNP_P4_157554_29230	NW_004516536.1	Scaffold1294	29230	TT	AA	1947002104
SNP_P4_157555_29238	NW_004516536.1	Scaffold1294	29238	GG	AA	1947002106
SNP_P4_157556_29457	NW_004516536.1	Scaffold1294	29457	CC	TT	1947002108
SNP_P4_157557_29472	NW_004516536.1	Scaffold1294	29472	GG	AA	1947002110
SNP_P4_157558_29494	NW_004516536.1	Scaffold1294	29494	TT	GG	1947002112
SNP_P4_157559_29511	NW_004516536.1	Scaffold1294	29511	TT	CC	1947002114
SNP_P4_157560_29513	NW_004516536.1	Scaffold1294	29513	TT	AA	1947002117
SNP_P4_157561_29749	NW_004516536.1	Scaffold1294	29749	CC	GG	1947002119
SNP_P4_157562_29815	NW_004516536.1	Scaffold1294	29815	GG	TT	1947002121
SNP_P4_157563_29843	NW_004516536.1	Scaffold1294	29843	GG	AA	1947002123
SNP_P4_157564_30021	NW_004516536.1	Scaffold1294	30021	AA	TT	1947002125
SNP_P4_157565_30087	NW_004516536.1	Scaffold1294	30087	AA	TT	1947002127

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_157566_32774	NW_004516536.1	Scaffold1294	32774	TT	CC	1947002129
SNP_P4_157567_34328	NW_004516536.1	Scaffold1294	34328	GG	CC	1947002132
SNP_P4_157568_34350	NW_004516536.1	Scaffold1294	34350	AA	TT	1947002134
SNP_P4_157569_34458	NW_004516536.1	Scaffold1294	34458	TT	CC	1947002136
SNP_P4_157570_35058	NW_004516536.1	Scaffold1294	35058	CC	TT	1947002138
SNP_P4_157571_35084	NW_004516536.1	Scaffold1294	35084	TT	GG	1947002140
SNP_P4_157572_35109	NW_004516536.1	Scaffold1294	35109	AA	TT	1947002142
SNP_P4_157573_35142	NW_004516536.1	Scaffold1294	35142	AA	GG	1947002144
SNP_P4_157575_59274	NW_004516538.1	Scaffold1301_1	59274	AA	GG	1947002146
SNP_P4_157576_75392	NW_004516538.1	Scaffold1301_1	75392	CC	TT	1947002148
SNP_P4_157578_95233	NW_004516538.1	Scaffold1301_1	95233	CC	TT	1947002149
SNP_P4_157579_101028	NW_004516538.1	Scaffold1301_1	101028	CC	AA	1947002151
SNP_P4_157580_168707	NW_004516538.1	Scaffold1301_1	168707	AA	GG	1947002153
SNP_P4_157581_168711	NW_004516538.1	Scaffold1301_1	168711	AA	GG	1947002155
SNP_P4_157584_260528	NW_004516538.1	Scaffold1301_1	260528	GG	AA	1947002157
SNP_P4_157585_286850	NW_004516538.1	Scaffold1301_1	286850	AA	GG	1947002159
SNP_P4_157586_290781	NW_004516538.1	Scaffold1301_1	290781	GG	AA	1947002161
SNP_P4_157587_290783	NW_004516538.1	Scaffold1301_1	290783	GG	AA	1947002163
SNP_P4_157588_298989	NW_004516538.1	Scaffold1301_1	298989	GG	AA	1947002165
SNP_P4_157589_298993	NW_004516538.1	Scaffold1301_1	298993	CC	TT	1947002167
SNP_P4_157590_299006	NW_004516538.1	Scaffold1301_1	299006	GG	AA	1947002169
SNP_P4_157591_299022	NW_004516538.1	Scaffold1301_1	299022	CC	TT	1947002171
SNP_P4_157592_299198	NW_004516538.1	Scaffold1301_1	299198	CC	AA	1947002173
SNP_P4_157593_299271	NW_004516538.1	Scaffold1301_1	299271	TT	CC	1947002175
SNP_P4_157594_299311	NW_004516538.1	Scaffold1301_1	299311	GG	AA	1947002176
SNP_P4_157595_299336	NW_004516538.1	Scaffold1301_1	299336	TT	AA	1947002178
SNP_P4_157596_299359	NW_004516538.1	Scaffold1301_1	299359	AA	GG	1947002180
SNP_P4_157597_299371	NW_004516538.1	Scaffold1301_1	299371	TT	CC	1947002182
SNP_P4_157598_299390	NW_004516538.1	Scaffold1301_1	299390	GG	AA	1947002184
SNP_P4_157599_299540	NW_004516538.1	Scaffold1301_1	299540	GG	AA	1947002186
SNP_P4_157600_299561	NW_004516538.1	Scaffold1301_1	299561	TT	CC	1947002188
SNP_P4_157601_299572	NW_004516538.1	Scaffold1301_1	299572	AA	GG	1947002190
SNP_P4_157602_303057	NW_004516538.1	Scaffold1301_1	303057	CC	TT	1947002192
SNP_P4_157604_307079	NW_004516538.1	Scaffold1301_1	307079	AA	TT	1947002193
SNP_P4_157605_1920	NW_004516539.1	Scaffold1302	1920	TT	GG	1947002195
SNP_P4_157606_2188	NW_004516539.1	Scaffold1302	2188	GG	TT	1947002197
SNP_P4_157607_2216	NW_004516539.1	Scaffold1302	2216	AA	GG	1947002199
SNP_P4_157608_2228	NW_004516539.1	Scaffold1302	2228	AA	GG	1947002201
SNP_P4_157609_220	NW_004516540.1	Scaffold1303	220	GG	TT	1947002203
SNP_P4_157610_5937	NW_004516540.1	Scaffold1303	5937	CC	TT	1947002205
SNP_P4_157611_277	NW_004516541.1	Scaffold1304	277	TT	AA	1947002207
SNP_P4_157612_296	NW_004516541.1	Scaffold1304	296	GG	AA	1947002208

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_157614_5443	NW_004516543.1	Scaffold1307	5443	AA	GG	1947002212
SNP_P4_157615_5444	NW_004516543.1	Scaffold1307	5444	TT	AA	1947002214
SNP_P4_157616_5791	NW_004516543.1	Scaffold1307	5791	AA	GG	1947002216
SNP_P4_157618_10141	NW_004516543.1	Scaffold1307	10141	TT	AA	1947002218
SNP_P4_157619_10142	NW_004516543.1	Scaffold1307	10142	AA	TT	1947002220
SNP_P4_157620_10561	NW_004516543.1	Scaffold1307	10561	AA	TT	1947002222
SNP_P4_157621_14762	NW_004516543.1	Scaffold1307	14762	GG	AA	1947002224
SNP_P4_157622_17328	NW_004516543.1	Scaffold1307	17328	TT	AA	1947002225
SNP_P4_157623_17478	NW_004516543.1	Scaffold1307	17478	AA	CC	1947002227
SNP_P4_157624_17483	NW_004516543.1	Scaffold1307	17483	GG	AA	1947002229
SNP_P4_157625_17492	NW_004516543.1	Scaffold1307	17492	GG	AA	1947002231
SNP_P4_157626_17519	NW_004516543.1	Scaffold1307	17519	CC	AA	1947002233
SNP_P4_157627_20487	NW_004516543.1	Scaffold1307	20487	TT	CC	1947002235
SNP_P4_157628_21268	NW_004516543.1	Scaffold1307	21268	CC	AA	1947002237
SNP_P4_157629_21903	NW_004516543.1	Scaffold1307	21903	AA	GG	1947002239
SNP_P4_157630_24365	NW_004516543.1	Scaffold1307	24365	TT	AA	1947002241
SNP_P4_157631_24430	NW_004516543.1	Scaffold1307	24430	AA	CC	1947002243
SNP_P4_157632_34882	NW_004516543.1	Scaffold1307	34882	GG	CC	1947002245
SNP_P4_157633_34885	NW_004516543.1	Scaffold1307	34885	AA	TT	1947002247
SNP_P4_157634_34887	NW_004516543.1	Scaffold1307	34887	TT	CC	1947002249
SNP_P4_157635_34892	NW_004516543.1	Scaffold1307	34892	GG	CC	1947002251
SNP_P4_157636_34893	NW_004516543.1	Scaffold1307	34893	AA	TT	1947002253
SNP_P4_157637_34895	NW_004516543.1	Scaffold1307	34895	AA	TT	1947002255
SNP_P4_157638_36674	NW_004516543.1	Scaffold1307	36674	GG	AA	1947002257
SNP_P4_157639_42504	NW_004516543.1	Scaffold1307	42504	GG	CC	1947002259
SNP_P4_157640_3398	NW_004516544.1	Scaffold1308	3398	AA	TT	1947002261
SNP_P4_157641_5924	NW_004516544.1	Scaffold1308	5924	TT	CC	1947002263
SNP_P4_157642_6265	NW_004516544.1	Scaffold1308	6265	CC	TT	1947002265
SNP_P4_157643_8949	NW_004516544.1	Scaffold1308	8949	CC	TT	1947002267
SNP_P4_157644_8950	NW_004516544.1	Scaffold1308	8950	AA	TT	1947002269
SNP_P4_157645_8973	NW_004516544.1	Scaffold1308	8973	TT	CC	1947002271
SNP_P4_157646_9033	NW_004516544.1	Scaffold1308	9033	TT	AA	1947002273
SNP_P4_157647_9357	NW_004516544.1	Scaffold1308	9357	GG	AA	1947002275
SNP_P4_157648_9667	NW_004516544.1	Scaffold1308	9667	TT	CC	1947002277
SNP_P4_157649_9767	NW_004516544.1	Scaffold1308	9767	AA	CC	1947002279
SNP_P4_157650_12655	NW_004516544.1	Scaffold1308	12655	GG	TT	1947002281
SNP_P4_157651_12666	NW_004516544.1	Scaffold1308	12666	AA	TT	1947002283
SNP_P4_157652_12669	NW_004516544.1	Scaffold1308	12669	CC	AA	1947002285
SNP_P4_157653_12671	NW_004516544.1	Scaffold1308	12671	GG	AA	1947002287
SNP_P4_157654_14675	NW_004516544.1	Scaffold1308	14675	TT	CC	1947002289
SNP_P4_157655_14796	NW_004516544.1	Scaffold1308	14796	AA	CC	1947002291

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_157659_24186	NW_004516544.1	Scaffold1308	24186	TT	CC	1947002297
SNP_P4_157660_24216	NW_004516544.1	Scaffold1308	24216	TT	CC	1947002299
SNP_P4_157661_24539	NW_004516544.1	Scaffold1308	24539	TT	AA	1947002301
SNP_P4_157662_24555	NW_004516544.1	Scaffold1308	24555	CC	AA	1947002303
SNP_P4_157663_24559	NW_004516544.1	Scaffold1308	24559	GG	TT	1947002305
SNP_P4_157664_24592	NW_004516544.1	Scaffold1308	24592	CC	TT	1947002307
SNP_P4_157665_24622	NW_004516544.1	Scaffold1308	24622	AA	TT	1947002309
SNP_P4_157666_35268	NW_004516544.1	Scaffold1308	35268	AA	GG	1947002311
SNP_P4_157667_35419	NW_004516544.1	Scaffold1308	35419	CC	TT	1947002313
SNP_P4_157668_38163	NW_004516544.1	Scaffold1308	38163	TT	CC	1947002315
SNP_P4_157669_38172	NW_004516544.1	Scaffold1308	38172	TT	CC	1947002317
SNP_P4_157670_39977	NW_004516544.1	Scaffold1308	39977	TT	CC	1947002319
SNP_P4_157671_42160	NW_004516544.1	Scaffold1308	42160	AA	GG	1947002321
SNP_P4_157672_43282	NW_004516544.1	Scaffold1308	43282	GG	CC	1947002323
SNP_P4_157673_43931	NW_004516544.1	Scaffold1308	43931	AA	GG	1947002325
SNP_P4_157674_43936	NW_004516544.1	Scaffold1308	43936	TT	GG	1947002327
SNP_P4_157675_45077	NW_004516544.1	Scaffold1308	45077	TT	CC	1947002329
SNP_P4_157676_50944	NW_004516544.1	Scaffold1308	50944	AA	GG	1947002331
SNP_P4_157677_51056	NW_004516544.1	Scaffold1308	51056	CC	TT	1947002333
SNP_P4_157678_51450	NW_004516544.1	Scaffold1308	51450	CC	TT	1947002335
SNP_P4_157679_55963	NW_004516544.1	Scaffold1308	55963	TT	GG	1947002337
SNP_P4_157680_55966	NW_004516544.1	Scaffold1308	55966	CC	TT	1947002339
SNP_P4_157681_55968	NW_004516544.1	Scaffold1308	55968	GG	AA	1947002341
SNP_P4_157682_55977	NW_004516544.1	Scaffold1308	55977	CC	AA	1947002343
SNP_P4_157683_55980	NW_004516544.1	Scaffold1308	55980	GG	AA	1947002345
SNP_P4_157684_55984	NW_004516544.1	Scaffold1308	55984	GG	CC	1947002347
SNP_P4_157685_55989	NW_004516544.1	Scaffold1308	55989	AA	GG	1947002349
SNP_P4_157686_56463	NW_004516544.1	Scaffold1308	56463	GG	AA	1947002351
SNP_P4_157687_56906	NW_004516544.1	Scaffold1308	56906	AA	TT	1947002353
SNP_P4_157688_56908	NW_004516544.1	Scaffold1308	56908	CC	TT	1947002355
SNP_P4_157689_56909	NW_004516544.1	Scaffold1308	56909	CC	TT	1947002357
SNP_P4_157690_56911	NW_004516544.1	Scaffold1308	56911	TT	AA	1947002359
SNP_P4_157691_56914	NW_004516544.1	Scaffold1308	56914	AA	TT	1947002361
SNP_P4_157693_57630	NW_004516544.1	Scaffold1308	57630	TT	CC	1947002363
SNP_P4_157694_57679	NW_004516544.1	Scaffold1308	57679	GG	AA	1947002365
SNP_P4_157695_57899	NW_004516544.1	Scaffold1308	57899	TT	AA	1947002367
SNP_P4_157696_59184	NW_004516544.1	Scaffold1308	59184	GG	AA	1947002369
SNP_P4_157697_59323	NW_004516544.1	Scaffold1308	59323	GG	TT	1947002371
SNP_P4_157698_60165	NW_004516544.1	Scaffold1308	60165	CC	GG	1947002373
SNP_P4_157699_60183	NW_004516544.1	Scaffold1308	60183	CC	TT	1947002375

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_157701_60190	NW_004516544.1	Scaffold1308	60190	TT	GG	1947002379
SNP_P4_157702_60195	NW_004516544.1	Scaffold1308	60195	TT	CC	1947002381
SNP_P4_157703_60203	NW_004516544.1	Scaffold1308	60203	AA	GG	1947002383
SNP_P4_157704_60305	NW_004516544.1	Scaffold1308	60305	CC	GG	1947002385
SNP_P4_157705_62554	NW_004516544.1	Scaffold1308	62554	CC	GG	1947002387
SNP_P4_157706_65714	NW_004516544.1	Scaffold1308	65714	AA	GG	1947002389
SNP_P4_157707_65759	NW_004516544.1	Scaffold1308	65759	AA	GG	1947002391
SNP_P4_157708_65820	NW_004516544.1	Scaffold1308	65820	CC	AA	1947002393
SNP_P4_157709_65848	NW_004516544.1	Scaffold1308	65848	CC	TT	1947002395
SNP_P4_157710_65850	NW_004516544.1	Scaffold1308	65850	AA	GG	1947002397
SNP_P4_157711_66578	NW_004516544.1	Scaffold1308	66578	CC	GG	1947002399
SNP_P4_157712_66741	NW_004516544.1	Scaffold1308	66741	CC	TT	1947002401
SNP_P4_157713_66761	NW_004516544.1	Scaffold1308	66761	CC	TT	1947002403
SNP_P4_157714_66872	NW_004516544.1	Scaffold1308	66872	AA	GG	1947002405
SNP_P4_157715_78385	NW_004516544.1	Scaffold1308	78385	GG	CC	1947002407
SNP_P4_157716_78528	NW_004516544.1	Scaffold1308	78528	CC	GG	1947002409
SNP_P4_157717_79034	NW_004516544.1	Scaffold1308	79034	GG	TT	1947002411
SNP_P4_157719_87209	NW_004516544.1	Scaffold1308	87209	TT	CC	1947002413
SNP_P4_157720_87242	NW_004516544.1	Scaffold1308	87242	GG	AA	1947002415
SNP_P4_157721_87248	NW_004516544.1	Scaffold1308	87248	GG	AA	1947002417
SNP_P4_157722_87513	NW_004516544.1	Scaffold1308	87513	TT	GG	1947002419
SNP_P4_157723_87521	NW_004516544.1	Scaffold1308	87521	TT	GG	1947002421
SNP_P4_157724_87527	NW_004516544.1	Scaffold1308	87527	AA	GG	1947002423
SNP_P4_157725_87539	NW_004516544.1	Scaffold1308	87539	AA	CC	1947002425
SNP_P4_157726_87599	NW_004516544.1	Scaffold1308	87599	AA	GG	1947002427
SNP_P4_157727_87649	NW_004516544.1	Scaffold1308	87649	CC	GG	1947002429
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SNP_P4_157729_87795	NW_004516544.1	Scaffold1308	87795	AA	CC	1947002433
SNP_P4_157730_87806	NW_004516544.1	Scaffold1308	87806	AA	CC	1947002435
SNP_P4_157731_88541	NW_004516544.1	Scaffold1308	88541	TT	CC	1947002436
SNP_P4_157732_89232	NW_004516544.1	Scaffold1308	89232	TT	CC	1947002438
SNP_P4_157733_89234	NW_004516544.1	Scaffold1308	89234	TT	AA	1947002440
SNP_P4_157734_89396	NW_004516544.1	Scaffold1308	89396	GG	TT	1947002442
SNP_P4_157735_89400	NW_004516544.1	Scaffold1308	89400	CC	TT	1947002444
SNP_P4_157736_91257	NW_004516544.1	Scaffold1308	91257	GG	CC	1947002446
SNP_P4_157737_91699	NW_004516544.1	Scaffold1308	91699	CC	TT	1947002448
SNP_P4_157738_94596	NW_004516544.1	Scaffold1308	94596	TT	GG	1947002450
SNP_P4_157739_94807	NW_004516544.1	Scaffold1308	94807	GG	CC	1947002452
SNP_P4_157740_95314	NW_004516544.1	Scaffold1308	95314	TT	GG	1947002454
SNP_P4_157741_95864	NW_004516544.1	Scaffold1308	95864	GG	TT	1947002456
SNP_P4_157742_97151	NW_004516544.1	Scaffold1308	97151	TT	CC	1947002458

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_157744_97675	NW_004516544.1	Scaffold1308	97675	TT	AA	1947002462
SNP_P4_157745_97856	NW_004516544.1	Scaffold1308	97856	GG	CC	1947002464
SNP_P4_157746_97897	NW_004516544.1	Scaffold1308	97897	TT	GG	1947002466
SNP_P4_157747_97952	NW_004516544.1	Scaffold1308	97952	CC	GG	1947002468
SNP_P4_157748_98002	NW_004516544.1	Scaffold1308	98002	CC	GG	1947002470
SNP_P4_157749_98007	NW_004516544.1	Scaffold1308	98007	TT	AA	1947002472
SNP_P4_157751_98104	NW_004516544.1	Scaffold1308	98104	CC	TT	1947002474
SNP_P4_157753_98113	NW_004516544.1	Scaffold1308	98113	CC	AA	1947002476
SNP_P4_157754_98194	NW_004516544.1	Scaffold1308	98194	AA	CC	1947002478
SNP_P4_157755_98870	NW_004516544.1	Scaffold1308	98870	TT	CC	1947002480
SNP_P4_157756_26542	NW_004516545.1	Scaffold1309	26542	CC	TT	1947002482
SNP_P4_157757_26766	NW_004516545.1	Scaffold1309	26766	CC	AA	1947002484
SNP_P4_157759_30164	NW_004516545.1	Scaffold1309	30164	CC	AA	1947002486
SNP_P4_157760_36102	NW_004516545.1	Scaffold1309	36102	AA	CC	1947002488
SNP_P4_157762_36114	NW_004516545.1	Scaffold1309	36114	TT	CC	1947002490
SNP_P4_157764_36274	NW_004516545.1	Scaffold1309	36274	TT	AA	1947002492
SNP_P4_157765_36298	NW_004516545.1	Scaffold1309	36298	AA	GG	1947002494
SNP_P4_157766_36339	NW_004516545.1	Scaffold1309	36339	AA	TT	1947002496
SNP_P4_157767_36409	NW_004516545.1	Scaffold1309	36409	TT	CC	1947002498
SNP_P4_157768_39392	NW_004516545.1	Scaffold1309	39392	CC	AA	1947002500
SNP_P4_157769_39692	NW_004516545.1	Scaffold1309	39692	TT	GG	1947002502
SNP_P4_157770_39801	NW_004516545.1	Scaffold1309	39801	TT	CC	1947002504
SNP_P4_157771_40127	NW_004516545.1	Scaffold1309	40127	AA	CC	1947002506
SNP_P4_157772_40146	NW_004516545.1	Scaffold1309	40146	TT	CC	1947002508
SNP_P4_157773_41563	NW_004516545.1	Scaffold1309	41563	TT	GG	1947002510
SNP_P4_157774_41860	NW_004516545.1	Scaffold1309	41860	AA	CC	1947002512
SNP_P4_157775_46951	NW_004516545.1	Scaffold1309	46951	GG	AA	1947002514
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SNP_P4_157777_48630	NW_004516545.1	Scaffold1309	48630	CC	AA	1947002518
SNP_P4_157778_48917	NW_004516545.1	Scaffold1309	48917	CC	TT	1947002520
SNP_P4_157779_49425	NW_004516545.1	Scaffold1309	49425	TT	CC	1947002522
SNP_P4_157780_49518	NW_004516545.1	Scaffold1309	49518	GG	TT	1947002524
SNP_P4_157781_49857	NW_004516545.1	Scaffold1309	49857	CC	AA	1947002526
SNP_P4_157783_50017	NW_004516545.1	Scaffold1309	50017	TT	GG	1947002528
SNP_P4_157784_50019	NW_004516545.1	Scaffold1309	50019	AA	GG	1947002530
SNP_P4_157785_50267	NW_004516545.1	Scaffold1309	50267	TT	GG	1947002532
SNP_P4_157787_50888	NW_004516545.1	Scaffold1309	50888	GG	TT	1947002534
SNP_P4_157788_51035	NW_004516545.1	Scaffold1309	51035	CC	TT	1947002536
SNP_P4_157789_51177	NW_004516545.1	Scaffold1309	51177	GG	AA	1947002538
SNP_P4_157790_51254	NW_004516545.1	Scaffold1309	51254	AA	CC	1947002540
SNP_P4_157791_55977	NW_004516545.1	Scaffold1309	55977	GG	AA	1947002542

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_157793_57143	NW_004516545.1	Scaffold1309	57143	GG	TT	1947002546
SNP_P4_157794_57218	NW_004516545.1	Scaffold1309	57218	CC	GG	1947002548
SNP_P4_157795_57455	NW_004516545.1	Scaffold1309	57455	GG	AA	1947002550
SNP_P4_157796_57592	NW_004516545.1	Scaffold1309	57592	GG	TT	1947002552
SNP_P4_157797_58063	NW_004516545.1	Scaffold1309	58063	CC	TT	1947002554
SNP_P4_157800_77499	NW_004516545.1	Scaffold1309	77499	TT	CC	1947002556
SNP_P4_157801_84481	NW_004516545.1	Scaffold1309	84481	TT	GG	1947002558
SNP_P4_157802_84482	NW_004516545.1	Scaffold1309	84482	TT	CC	1947002560
SNP_P4_157803_88860	NW_004516545.1	Scaffold1309	88860	TT	AA	1947002562
SNP_P4_157804_89142	NW_004516545.1	Scaffold1309	89142	TT	CC	1947002564
SNP_P4_157805_89154	NW_004516545.1	Scaffold1309	89154	AA	GG	1947002566
SNP_P4_157806_89427	NW_004516545.1	Scaffold1309	89427	CC	AA	1947002568
SNP_P4_157807_89536	NW_004516545.1	Scaffold1309	89536	TT	AA	1947002570
SNP_P4_157808_89808	NW_004516545.1	Scaffold1309	89808	AA	GG	1947002572
SNP_P4_157809_90176	NW_004516545.1	Scaffold1309	90176	TT	CC	1947002577
SNP_P4_157810_90254	NW_004516545.1	Scaffold1309	90254	GG	AA	1947002579
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SNP_P4_157812_3703	NW_004516547.1	Scaffold1312	3703	TT	AA	1947002583
SNP_P4_157813_3709	NW_004516547.1	Scaffold1312	3709	AA	TT	1947002585
SNP_P4_157814_52707	NW_004516547.1	Scaffold1312	52707	TT	GG	1947002587
SNP_P4_157815_57806	NW_004516547.1	Scaffold1312	57806	TT	CC	1947002589
SNP_P4_157817_58766	NW_004516547.1	Scaffold1312	58766	TT	AA	1947002591
SNP_P4_157819_59447	NW_004516547.1	Scaffold1312	59447	GG	TT	1947002593
SNP_P4_157820_64919	NW_004516547.1	Scaffold1312	64919	TT	GG	1947002595
SNP_P4_157821_65136	NW_004516547.1	Scaffold1312	65136	GG	AA	1947002597
SNP_P4_157822_65421	NW_004516547.1	Scaffold1312	65421	TT	CC	1947002599
SNP_P4_157823_65599	NW_004516547.1	Scaffold1312	65599	TT	CC	1947002601
SNP_P4_157824_65658	NW_004516547.1	Scaffold1312	65658	TT	CC	1947002603
SNP_P4_157826_66031	NW_004516547.1	Scaffold1312	66031	CC	TT	1947002605
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SNP_P4_157830_69466	NW_004516547.1	Scaffold1312	69466	GG	CC	1947002611
SNP_P4_157831_69596	NW_004516547.1	Scaffold1312	69596	GG	TT	1947002612
SNP_P4_157834_72077	NW_004516547.1	Scaffold1312	72077	CC	TT	1947002613
SNP_P4_157835_72289	NW_004516547.1	Scaffold1312	72289	AA	GG	1947002614
SNP_P4_157836_72293	NW_004516547.1	Scaffold1312	72293	CC	GG	1947002615
SNP_P4_157837_73314	NW_004516547.1	Scaffold1312	73314	TT	AA	1947002616
SNP_P4_157838_73979	NW_004516547.1	Scaffold1312	73979	AA	CC	1947002617
SNP_P4_157839_74961	NW_004516547.1	Scaffold1312	74961	GG	AA	1947002618
SNP_P4_157840_75105	NW_004516547.1	Scaffold1312	75105	AA	GG	1947002619

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_157842_75346	NW_004516547.1	Scaffold1312	75346	AA	GG	1947002621
SNP_P4_157843_75462	NW_004516547.1	Scaffold1312	75462	GG	TT	1947002622
SNP_P4_157844_75568	NW_004516547.1	Scaffold1312	75568	CC	TT	1947002623
SNP_P4_157845_75581	NW_004516547.1	Scaffold1312	75581	AA	TT	1947002624
SNP_P4_157846_76168	NW_004516547.1	Scaffold1312	76168	AA	GG	1947002625
SNP_P4_157847_76652	NW_004516547.1	Scaffold1312	76652	CC	TT	1947002626
SNP_P4_157848_77681	NW_004516547.1	Scaffold1312	77681	TT	AA	1947002627
SNP_P4_157849_78435	NW_004516547.1	Scaffold1312	78435	GG	AA	1947002628
SNP_P4_157850_78520	NW_004516547.1	Scaffold1312	78520	TT	AA	1947002629
SNP_P4_157851_78625	NW_004516547.1	Scaffold1312	78625	AA	TT	1947002630
SNP_P4_157852_78629	NW_004516547.1	Scaffold1312	78629	AA	GG	1947002631
SNP_P4_157854_78775	NW_004516547.1	Scaffold1312	78775	GG	AA	1947002632
SNP_P4_157858_78980	NW_004516547.1	Scaffold1312	78980	TT	CC	1947002633
SNP_P4_157859_78991	NW_004516547.1	Scaffold1312	78991	AA	GG	1947002634
SNP_P4_157860_79107	NW_004516547.1	Scaffold1312	79107	GG	AA	1947002635
SNP_P4_157861_79124	NW_004516547.1	Scaffold1312	79124	TT	CC	1947002636
SNP_P4_157862_79155	NW_004516547.1	Scaffold1312	79155	CC	TT	1947002637
SNP_P4_157863_79226	NW_004516547.1	Scaffold1312	79226	AA	TT	1947002638
SNP_P4_157864_79260	NW_004516547.1	Scaffold1312	79260	TT	CC	1947002639
SNP_P4_157865_79280	NW_004516547.1	Scaffold1312	79280	GG	TT	1947002640
SNP_P4_157866_79666	NW_004516547.1	Scaffold1312	79666	GG	AA	1947002641
SNP_P4_157867_79682	NW_004516547.1	Scaffold1312	79682	GG	AA	1947002642
SNP_P4_157868_79698	NW_004516547.1	Scaffold1312	79698	CC	AA	1947002643
SNP_P4_157869_79733	NW_004516547.1	Scaffold1312	79733	CC	AA	1947002644
SNP_P4_157870_79764	NW_004516547.1	Scaffold1312	79764	CC	TT	1947002645
SNP_P4_157871_79824	NW_004516547.1	Scaffold1312	79824	AA	GG	1947002646
SNP_P4_157872_79842	NW_004516547.1	Scaffold1312	79842	GG	AA	1947002647
SNP_P4_157873_79901	NW_004516547.1	Scaffold1312	79901	CC	TT	1947002648
SNP_P4_157874_79959	NW_004516547.1	Scaffold1312	79959	TT	CC	1947002649
SNP_P4_157875_80007	NW_004516547.1	Scaffold1312	80007	CC	TT	1947002650
SNP_P4_157876_80061	NW_004516547.1	Scaffold1312	80061	TT	GG	1947002651
SNP_P4_157877_80079	NW_004516547.1	Scaffold1312	80079	TT	AA	1947002652
SNP_P4_157878_80259	NW_004516547.1	Scaffold1312	80259	CC	AA	1947002653
SNP_P4_157879_80287	NW_004516547.1	Scaffold1312	80287	AA	CC	1947002654
SNP_P4_157880_80350	NW_004516547.1	Scaffold1312	80350	CC	TT	1947002655
SNP_P4_157881_80372	NW_004516547.1	Scaffold1312	80372	GG	AA	1947002656
SNP_P4_157882_80394	NW_004516547.1	Scaffold1312	80394	GG	AA	1947002657
SNP_P4_157883_80499	NW_004516547.1	Scaffold1312	80499	AA	TT	1947002658
SNP_P4_157885_80593	NW_004516547.1	Scaffold1312	80593	GG	AA	1947002659
SNP_P4_157886_80716	NW_004516547.1	Scaffold1312	80716	AA	GG	1947002660
SNP_P4_157887_80833	NW_004516547.1	Scaffold1312	80833	GG	AA	1947002661

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_157889_81003	NW_004516547.1	Scaffold1312	81003	CC	TT	1947002663
SNP_P4_157890_81067	NW_004516547.1	Scaffold1312	81067	AA	CC	1947002664
SNP_P4_157891_81081	NW_004516547.1	Scaffold1312	81081	TT	CC	1947002665
SNP_P4_157892_81389	NW_004516547.1	Scaffold1312	81389	TT	GG	1947002666
SNP_P4_157893_81450	NW_004516547.1	Scaffold1312	81450	AA	GG	1947002667
SNP_P4_157894_81454	NW_004516547.1	Scaffold1312	81454	CC	TT	1947002668
SNP_P4_157895_81469	NW_004516547.1	Scaffold1312	81469	TT	AA	1947002669
SNP_P4_157896_81590	NW_004516547.1	Scaffold1312	81590	TT	CC	1947002670
SNP_P4_157897_81727	NW_004516547.1	Scaffold1312	81727	AA	GG	1947002671
SNP_P4_157898_81751	NW_004516547.1	Scaffold1312	81751	TT	CC	1947002672
SNP_P4_157899_81898	NW_004516547.1	Scaffold1312	81898	AA	GG	1947002673
SNP_P4_157900_82002	NW_004516547.1	Scaffold1312	82002	GG	AA	1947002674
SNP_P4_157901_82003	NW_004516547.1	Scaffold1312	82003	AA	GG	1947002675
SNP_P4_157902_82188	NW_004516547.1	Scaffold1312	82188	GG	AA	1947002676
SNP_P4_157903_82276	NW_004516547.1	Scaffold1312	82276	TT	CC	1947002677
SNP_P4_157904_82277	NW_004516547.1	Scaffold1312	82277	GG	AA	1947002678
SNP_P4_157905_82296	NW_004516547.1	Scaffold1312	82296	CC	TT	1947002679
SNP_P4_157906_82323	NW_004516547.1	Scaffold1312	82323	CC	TT	1947002680
SNP_P4_157907_82356	NW_004516547.1	Scaffold1312	82356	TT	CC	1947002681
SNP_P4_157908_82369	NW_004516547.1	Scaffold1312	82369	GG	AA	1947002682
SNP_P4_157909_82416	NW_004516547.1	Scaffold1312	82416	TT	AA	1947002683
SNP_P4_157910_82524	NW_004516547.1	Scaffold1312	82524	AA	GG	1947002684
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SNP_P4_157912_82588	NW_004516547.1	Scaffold1312	82588	CC	GG	1947002686
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SNP_P4_157917_82845	NW_004516547.1	Scaffold1312	82845	GG	AA	1947002691
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SNP_P4_157919_83001	NW_004516547.1	Scaffold1312	83001	AA	GG	1947002693
SNP_P4_157920_83177	NW_004516547.1	Scaffold1312	83177	GG	AA	1947002694
SNP_P4_157922_83302	NW_004516547.1	Scaffold1312	83302	TT	CC	1947002695
SNP_P4_157923_83429	NW_004516547.1	Scaffold1312	83429	CC	GG	1947002696
SNP_P4_157924_83443	NW_004516547.1	Scaffold1312	83443	CC	TT	1947002697
SNP_P4_157925_83462	NW_004516547.1	Scaffold1312	83462	TT	CC	1947002698
SNP_P4_157926_83497	NW_004516547.1	Scaffold1312	83497	GG	AA	1947002699
SNP_P4_157927_83625	NW_004516547.1	Scaffold1312	83625	TT	CC	1947002700
SNP_P4_157928_83633	NW_004516547.1	Scaffold1312	83633	CC	AA	1947002701
SNP_P4_157929_83804	NW_004516547.1	Scaffold1312	83804	TT	AA	1947002702
SNP_P4_157930_86106	NW_004516547.1	Scaffold1312	86106	AA	GG	1947002703

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_157933_86353	NW_004516547.1	Scaffold1312	86353	AA	TT	1947002706
SNP_P4_157934_86383	NW_004516547.1	Scaffold1312	86383	GG	AA	1947002707
SNP_P4_157935_86432	NW_004516547.1	Scaffold1312	86432	AA	GG	1947002708
SNP_P4_157936_86525	NW_004516547.1	Scaffold1312	86525	AA	GG	1947002709
SNP_P4_157937_86738	NW_004516547.1	Scaffold1312	86738	AA	TT	1947002710
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SNP_P4_157939_86834	NW_004516547.1	Scaffold1312	86834	CC	TT	1947002712
SNP_P4_157940_86843	NW_004516547.1	Scaffold1312	86843	GG	AA	1947002713
SNP_P4_157941_86974	NW_004516547.1	Scaffold1312	86974	GG	TT	1947002714
SNP_P4_157942_87071	NW_004516547.1	Scaffold1312	87071	TT	GG	1947002715
SNP_P4_157943_87148	NW_004516547.1	Scaffold1312	87148	GG	TT	1947002716
SNP_P4_157944_87208	NW_004516547.1	Scaffold1312	87208	AA	CC	1947002717
SNP_P4_157945_87216	NW_004516547.1	Scaffold1312	87216	TT	CC	1947002718
SNP_P4_157946_87401	NW_004516547.1	Scaffold1312	87401	TT	AA	1947002720
SNP_P4_157947_87420	NW_004516547.1	Scaffold1312	87420	TT	CC	1947002722
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SNP_P4_157971_89251	NW_004516547.1	Scaffold1312	89251	AA	TT	1947002771
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_157977_95635	NW_004516547.1	Scaffold1312	95635	TT	CC	1947002779
SNP_P4_157978_95678	NW_004516547.1	Scaffold1312	95678	CC	TT	1947002781
SNP_P4_157979_95688	NW_004516547.1	Scaffold1312	95688	GG	AA	1947002783
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SNP_P4_157986_96804	NW_004516547.1	Scaffold1312	96804	TT	AA	1947002797
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SNP_P4_157989_1344	NW_004516548.1	Scaffold1313	1344	AA	GG	1947002803
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SNP_P4_157993_43706	NW_004516548.1	Scaffold1313	43706	AA	GG	1947002807
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SNP_P4_158002_72178	NW_004516548.1	Scaffold1313	72178	GG	AA	1947002823
SNP_P4_158003_72200	NW_004516548.1	Scaffold1313	72200	TT	AA	1947002825
SNP_P4_158004_72232	NW_004516548.1	Scaffold1313	72232	AA	GG	1947002827
SNP_P4_158005_102495	NW_004516548.1	Scaffold1313	102495	TT	AA	1947002829
SNP_P4_158006_102685	NW_004516548.1	Scaffold1313	102685	AA	GG	1947002831
SNP_P4_158008_103240	NW_004516548.1	Scaffold1313	103240	TT	CC	1947002833
SNP_P4_158009_103447	NW_004516548.1	Scaffold1313	103447	CC	AA	1947002835
SNP_P4_158010_103457	NW_004516548.1	Scaffold1313	103457	CC	TT	1947002837
SNP_P4_158011_103720	NW_004516548.1	Scaffold1313	103720	AA	GG	1947002839
SNP_P4_158012_103785	NW_004516548.1	Scaffold1313	103785	CC	TT	1947002841
SNP_P4_158013_103877	NW_004516548.1	Scaffold1313	103877	GG	AA	1947002843
SNP_P4_158014_108279	NW_004516548.1	Scaffold1313	108279	AA	GG	1947002845
SNP_P4_158015_108309	NW_004516548.1	Scaffold1313	108309	AA	GG	1947002847
SNP_P4_158016_110130	NW_004516548.1	Scaffold1313	110130	AA	TT	1947002849
SNP_P4_158017_117786	NW_004516548.1	Scaffold1313	117786	CC	GG	1947002851
SNP_P4_158018_117787	NW_004516548.1	Scaffold1313	117787	CC	AA	1947002852
SNP_P4_158019_117798	NW_004516548.1	Scaffold1313	117798	AA	GG	1947002854
SNP_P4_158020_117824	NW_004516548.1	Scaffold1313	117824	AA	GG	1947002856

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_158021_117825	NW_004516548.1	Scaffold1313	117825	AA	GG	1947002858
SNP_P4_158022_117826	NW_004516548.1	Scaffold1313	117826	TT	CC	1947002860
SNP_P4_158023_117860	NW_004516548.1	Scaffold1313	117860	CC	TT	1947002862
SNP_P4_158024_117870	NW_004516548.1	Scaffold1313	117870	AA	GG	1947002864
SNP_P4_158025_117881	NW_004516548.1	Scaffold1313	117881	CC	TT	1947002866
SNP_P4_158026_117884	NW_004516548.1	Scaffold1313	117884	AA	GG	1947002868
SNP_P4_158027_117900	NW_004516548.1	Scaffold1313	117900	TT	AA	1947002870
SNP_P4_158028_117934	NW_004516548.1	Scaffold1313	117934	TT	CC	1947002872
SNP_P4_158029_117941	NW_004516548.1	Scaffold1313	117941	AA	GG	1947002874
SNP_P4_158030_117968	NW_004516548.1	Scaffold1313	117968	CC	TT	1947002876
SNP_P4_158031_117977	NW_004516548.1	Scaffold1313	117977	CC	AA	1947002878
SNP_P4_158032_120777	NW_004516548.1	Scaffold1313	120777	CC	AA	1947002880
SNP_P4_158033_123889	NW_004516548.1	Scaffold1313	123889	AA	GG	1947002881
SNP_P4_158034_131857	NW_004516548.1	Scaffold1313	131857	GG	AA	1947002883
SNP_P4_158035_132461	NW_004516548.1	Scaffold1313	132461	TT	AA	1947002885
SNP_P4_158036_132791	NW_004516548.1	Scaffold1313	132791	TT	CC	1947002887
SNP_P4_158037_132870	NW_004516548.1	Scaffold1313	132870	AA	TT	1947002889
SNP_P4_158038_132874	NW_004516548.1	Scaffold1313	132874	TT	CC	1947002891
SNP_P4_158039_133023	NW_004516548.1	Scaffold1313	133023	TT	CC	1947002893
SNP_P4_158041_133556	NW_004516548.1	Scaffold1313	133556	TT	CC	1947002895
SNP_P4_158042_133561	NW_004516548.1	Scaffold1313	133561	GG	CC	1947002897
SNP_P4_158043_133562	NW_004516548.1	Scaffold1313	133562	AA	CC	1947002899
SNP_P4_158044_133599	NW_004516548.1	Scaffold1313	133599	AA	TT	1947002901
SNP_P4_158045_133746	NW_004516548.1	Scaffold1313	133746	TT	CC	1947002903
SNP_P4_158047_133935	NW_004516548.1	Scaffold1313	133935	TT	CC	1947002905
SNP_P4_158048_138256	NW_004516548.1	Scaffold1313	138256	CC	TT	1947002907
SNP_P4_158049_143923	NW_004516548.1	Scaffold1313	143923	AA	TT	1947002909
SNP_P4_158051_158913	NW_004516548.1	Scaffold1313	158913	GG	TT	1947002911
SNP_P4_158052_158923	NW_004516548.1	Scaffold1313	158923	GG	AA	1947002912
SNP_P4_158053_158967	NW_004516548.1	Scaffold1313	158967	AA	TT	1947002914
SNP_P4_158055_165273	NW_004516548.1	Scaffold1313	165273	TT	CC	1947002916
SNP_P4_158056_165289	NW_004516548.1	Scaffold1313	165289	TT	CC	1947002918
SNP_P4_158057_167246	NW_004516548.1	Scaffold1313	167246	TT	GG	1947002920
SNP_P4_158058_168031	NW_004516548.1	Scaffold1313	168031	TT	CC	1947002922
SNP_P4_158059_168044	NW_004516548.1	Scaffold1313	168044	TT	GG	1947002924
SNP_P4_158060_168844	NW_004516548.1	Scaffold1313	168844	AA	CC	1947002926
SNP_P4_158061_168899	NW_004516548.1	Scaffold1313	168899	AA	CC	1947002928
SNP_P4_158062_168928	NW_004516548.1	Scaffold1313	168928	AA	CC	1947002930
SNP_P4_158063_197934	NW_004516548.1	Scaffold1313	197934	TT	CC	1947002932
SNP_P4_158064_203224	NW_004516548.1	Scaffold1313	203224	CC	AA	1947002934
SNP_P4_158065_204250	NW_004516548.1	Scaffold1313	204250	TT	CC	1947002936
SNP_P4_158067_206082	NW_004516548.1	Scaffold1313	206082	GG	CC	1947002938

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_158068_214375	NW_004516548.1	Scaffold1313	214375	TT	CC	1947002940
SNP_P4_158069_214396	NW_004516548.1	Scaffold1313	214396	GG	AA	1947002942
SNP_P4_158070_214416	NW_004516548.1	Scaffold1313	214416	AA	TT	1947002944
SNP_P4_158071_216483	NW_004516548.1	Scaffold1313	216483	AA	GG	1947002946
SNP_P4_158072_216950	NW_004516548.1	Scaffold1313	216950	GG	AA	1947002947
SNP_P4_158073_216965	NW_004516548.1	Scaffold1313	216965	TT	GG	1947002949
SNP_P4_158074_229501	NW_004516548.1	Scaffold1313	229501	TT	AA	1947002951
SNP_P4_158075_229523	NW_004516548.1	Scaffold1313	229523	GG	TT	1947002953
SNP_P4_158076_229526	NW_004516548.1	Scaffold1313	229526	GG	AA	1947002955
SNP_P4_158077_346	NW_004516549.1	Scaffold1314	346	CC	GG	1947002957
SNP_P4_158078_371	NW_004516549.1	Scaffold1314	371	GG	AA	1947002959
SNP_P4_158079_372	NW_004516549.1	Scaffold1314	372	AA	TT	1947002961
SNP_P4_158080_524	NW_004516549.1	Scaffold1314	524	TT	GG	1947002963
SNP_P4_158082_618	NW_004516549.1	Scaffold1314	618	TT	CC	1947002965
SNP_P4_158083_757	NW_004516549.1	Scaffold1314	757	GG	TT	1947002967
SNP_P4_158084_859	NW_004516549.1	Scaffold1314	859	AA	TT	1947002969
SNP_P4_158085_12984	NW_004516550.1	Scaffold1315	12984	CC	AA	1947002971
SNP_P4_158086_14487	NW_004516550.1	Scaffold1315	14487	AA	GG	1947002973
SNP_P4_158087_14544	NW_004516550.1	Scaffold1315	14544	GG	AA	1947002975
SNP_P4_158088_14779	NW_004516550.1	Scaffold1315	14779	GG	AA	1947002977
SNP_P4_158089_14820	NW_004516550.1	Scaffold1315	14820	CC	TT	1947002979
SNP_P4_158090_14827	NW_004516550.1	Scaffold1315	14827	TT	GG	1947002981
SNP_P4_158091_15062	NW_004516550.1	Scaffold1315	15062	CC	AA	1947002983
SNP_P4_158092_15069	NW_004516550.1	Scaffold1315	15069	CC	TT	1947002985
SNP_P4_158093_15100	NW_004516550.1	Scaffold1315	15100	CC	TT	1947002987
SNP_P4_158094_15106	NW_004516550.1	Scaffold1315	15106	TT	CC	1947002989
SNP_P4_158095_15111	NW_004516550.1	Scaffold1315	15111	AA	CC	1947002991
SNP_P4_158096_15389	NW_004516550.1	Scaffold1315	15389	TT	CC	1947002993
SNP_P4_158098_37528	NW_004516550.1	Scaffold1315	37528	AA	GG	1947002995
SNP_P4_158099_37534	NW_004516550.1	Scaffold1315	37534	CC	AA	1947002997
SNP_P4_158100_37536	NW_004516550.1	Scaffold1315	37536	AA	GG	1947002999
SNP_P4_158101_37551	NW_004516550.1	Scaffold1315	37551	CC	TT	1947003001
SNP_P4_158102_37558	NW_004516550.1	Scaffold1315	37558	GG	AA	1947003003
SNP_P4_158103_37589	NW_004516550.1	Scaffold1315	37589	AA	TT	1947003005
SNP_P4_158104_37593	NW_004516550.1	Scaffold1315	37593	TT	CC	1947003007
SNP_P4_158105_37628	NW_004516550.1	Scaffold1315	37628	GG	AA	1947003008
SNP_P4_158106_37630	NW_004516550.1	Scaffold1315	37630	CC	AA	1947003010
SNP_P4_158107_37646	NW_004516550.1	Scaffold1315	37646	CC	TT	1947003012
SNP_P4_158108_37817	NW_004516550.1	Scaffold1315	37817	AA	GG	1947003014
SNP_P4_158109_37818	NW_004516550.1	Scaffold1315	37818	AA	GG	1947003016
SNP_P4_158110_37856	NW_004516550.1	Scaffold1315	37856	GG	TT	1947003018
SNP_P4_158111_37892	NW_004516550.1	Scaffold1315	37892	AA	GG	1947003020

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_158112_63738	NW_004516550.1	Scaffold1315	63738	TT	CC	1947003022
SNP_P4_158113_63767	NW_004516550.1	Scaffold1315	63767	AA	TT	1947003024
SNP_P4_158114_64121	NW_004516550.1	Scaffold1315	64121	CC	TT	1947003026
SNP_P4_158115_64194	NW_004516550.1	Scaffold1315	64194	GG	AA	1947003028
SNP_P4_158116_64227	NW_004516550.1	Scaffold1315	64227	GG	AA	1947003030
SNP_P4_158117_64535	NW_004516550.1	Scaffold1315	64535	AA	GG	1947003032
SNP_P4_158118_64623	NW_004516550.1	Scaffold1315	64623	TT	CC	1947003034
SNP_P4_158119_65878	NW_004516550.1	Scaffold1315	65878	TT	GG	1947003036
SNP_P4_158120_69135	NW_004516550.1	Scaffold1315	69135	AA	GG	1947003038
SNP_P4_158121_76322	NW_004516550.1	Scaffold1315	76322	TT	CC	1947003040
SNP_P4_158122_88545	NW_004516550.1	Scaffold1315	88545	GG	AA	1947003042
SNP_P4_158123_88550	NW_004516550.1	Scaffold1315	88550	GG	TT	1947003044
SNP_P4_158124_100921	NW_004516550.1	Scaffold1315	100921	GG	TT	1947003046
SNP_P4_158125_107968	NW_004516550.1	Scaffold1315	107968	TT	GG	1947003048
SNP_P4_158126_108277	NW_004516550.1	Scaffold1315	108277	TT	CC	1947003050
SNP_P4_158127_108346	NW_004516550.1	Scaffold1315	108346	AA	CC	1947003052
SNP_P4_158128_109036	NW_004516550.1	Scaffold1315	109036	TT	CC	1947003054
SNP_P4_158130_114802	NW_004516550.1	Scaffold1315	114802	TT	GG	1947003055
SNP_P4_158131_114813	NW_004516550.1	Scaffold1315	114813	TT	CC	1947003057
SNP_P4_158132_115048	NW_004516550.1	Scaffold1315	115048	CC	TT	1947003059
SNP_P4_158133_115057	NW_004516550.1	Scaffold1315	115057	TT	CC	1947003061
SNP_P4_158134_115206	NW_004516550.1	Scaffold1315	115206	TT	AA	1947003063
SNP_P4_158135_115235	NW_004516550.1	Scaffold1315	115235	TT	GG	1947003065
SNP_P4_158136_115284	NW_004516550.1	Scaffold1315	115284	CC	TT	1947003067
SNP_P4_158137_115305	NW_004516550.1	Scaffold1315	115305	AA	TT	1947003069
SNP_P4_158138_120490	NW_004516550.1	Scaffold1315	120490	GG	AA	1947003071
SNP_P4_158139_120838	NW_004516550.1	Scaffold1315	120838	TT	CC	1947003073
SNP_P4_158140_120993	NW_004516550.1	Scaffold1315	120993	CC	TT	1947003075
SNP_P4_158141_125228	NW_004516550.1	Scaffold1315	125228	AA	GG	1947003077
SNP_P4_158142_125243	NW_004516550.1	Scaffold1315	125243	TT	CC	1947003079
SNP_P4_158143_127678	NW_004516550.1	Scaffold1315	127678	TT	GG	1947003081
SNP_P4_158144_150598	NW_004516550.1	Scaffold1315	150598	TT	GG	1947003083
SNP_P4_158145_151243	NW_004516550.1	Scaffold1315	151243	TT	GG	1947003084
SNP_P4_158146_151271	NW_004516550.1	Scaffold1315	151271	CC	GG	1947003086
SNP_P4_158147_151455	NW_004516550.1	Scaffold1315	151455	TT	AA	1947003088
SNP_P4_158148_151516	NW_004516550.1	Scaffold1315	151516	TT	CC	1947003090
SNP_P4_158149_151531	NW_004516550.1	Scaffold1315	151531	AA	TT	1947003092
SNP_P4_158151_151634	NW_004516550.1	Scaffold1315	151634	GG	AA	1947003095
SNP_P4_158152_160078	NW_004516550.1	Scaffold1315	160078	TT	CC	1947003097
SNP_P4_158153_160415	NW_004516550.1	Scaffold1315	160415	CC	GG	1947003099
SNP_P4_158154_163466	NW_004516550.1	Scaffold1315	163466	GG	AA	1947003101
SNP_P4_158155_163574	NW_004516550.1	Scaffold1315	163574	GG	TT	1947003103

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_158157_163630	NW_004516550.1	Scaffold1315	163630	TT	CC	1947003107
SNP_P4_158158_163659	NW_004516550.1	Scaffold1315	163659	GG	AA	1947003109
SNP_P4_158159_169092	NW_004516550.1	Scaffold1315	169092	GG	AA	1947003111
SNP_P4_158160_169130	NW_004516550.1	Scaffold1315	169130	AA	GG	1947003112
SNP_P4_158161_169140	NW_004516550.1	Scaffold1315	169140	AA	CC	1947003114
SNP_P4_158162_169144	NW_004516550.1	Scaffold1315	169144	AA	TT	1947003116
SNP_P4_158163_169467	NW_004516550.1	Scaffold1315	169467	CC	AA	1947003118
SNP_P4_158164_169468	NW_004516550.1	Scaffold1315	169468	AA	TT	1947003120
SNP_P4_158165_178579	NW_004516550.1	Scaffold1315	178579	CC	AA	1947003122
SNP_P4_158166_178761	NW_004516550.1	Scaffold1315	178761	CC	AA	1947003124
SNP_P4_158167_178779	NW_004516550.1	Scaffold1315	178779	CC	TT	1947003126
SNP_P4_158168_181360	NW_004516550.1	Scaffold1315	181360	CC	TT	1947003128
SNP_P4_158169_181811	NW_004516550.1	Scaffold1315	181811	TT	AA	1947003130
SNP_P4_158171_3852	NW_004516551.1	Scaffold1316	3852	TT	CC	1947003132
SNP_P4_158173_8009	NW_004516551.1	Scaffold1316	8009	CC	TT	1947003134
SNP_P4_158174_8402	NW_004516551.1	Scaffold1316	8402	AA	TT	1947003136
SNP_P4_158175_8446	NW_004516551.1	Scaffold1316	8446	TT	CC	1947003138
SNP_P4_158176_8448	NW_004516551.1	Scaffold1316	8448	GG	TT	1947003140
SNP_P4_158177_8457	NW_004516551.1	Scaffold1316	8457	AA	TT	1947003142
SNP_P4_158178_8464	NW_004516551.1	Scaffold1316	8464	GG	TT	1947003145
SNP_P4_158179_8475	NW_004516551.1	Scaffold1316	8475	TT	GG	1947003147
SNP_P4_158180_8666	NW_004516551.1	Scaffold1316	8666	GG	AA	1947003149
SNP_P4_158181_8676	NW_004516551.1	Scaffold1316	8676	GG	AA	1947003151
SNP_P4_158182_8686	NW_004516551.1	Scaffold1316	8686	TT	CC	1947003153
SNP_P4_158183_8972	NW_004516551.1	Scaffold1316	8972	CC	TT	1947003155
SNP_P4_158184_9806	NW_004516551.1	Scaffold1316	9806	GG	AA	1947003157
SNP_P4_158185_9928	NW_004516551.1	Scaffold1316	9928	AA	GG	1947003159
SNP_P4_158186_9992	NW_004516551.1	Scaffold1316	9992	TT	CC	1947003161
SNP_P4_158187_9995	NW_004516551.1	Scaffold1316	9995	AA	GG	1947003163
SNP_P4_158188_10268	NW_004516551.1	Scaffold1316	10268	AA	TT	1947003165
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SNP_P4_158190_11969	NW_004516551.1	Scaffold1316	11969	CC	GG	1947003169
SNP_P4_158191_12837	NW_004516551.1	Scaffold1316	12837	CC	GG	1947003170
SNP_P4_158192_12999	NW_004516551.1	Scaffold1316	12999	AA	CC	1947003172
SNP_P4_158194_13614	NW_004516551.1	Scaffold1316	13614	AA	GG	1947003174
SNP_P4_158195_13626	NW_004516551.1	Scaffold1316	13626	GG	AA	1947003176
SNP_P4_158198_4405	NW_004516552.1	Scaffold1317	4405	GG	CC	1947003178
SNP_P4_158201_6456	NW_004516552.1	Scaffold1317	6456	TT	CC	1947003180
SNP_P4_158202_6970	NW_004516552.1	Scaffold1317	6970	CC	GG	1947003182
SNP_P4_158203_8203	NW_004516552.1	Scaffold1317	8203	AA	CC	1947003184
SNP_P4_158204_8207	NW_004516552.1	Scaffold1317	8207	TT	GG	1947003186

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_158205_8330	NW_004516552.1	Scaffold1317	8330	CC	AA	1947003188
SNP_P4_158206_9220	NW_004516552.1	Scaffold1317	9220	CC	TT	1947003190
SNP_P4_158207_13120	NW_004516552.1	Scaffold1317	13120	TT	CC	1947003192
SNP_P4_158208_15694	NW_004516552.1	Scaffold1317	15694	TT	CC	1947003194
SNP_P4_158209_16237	NW_004516552.1	Scaffold1317	16237	GG	TT	1947003196
SNP_P4_158210_19446	NW_004516552.1	Scaffold1317	19446	CC	TT	1947003198
SNP_P4_158211_20404	NW_004516552.1	Scaffold1317	20404	AA	GG	1947003200
SNP_P4_158213_22203	NW_004516552.1	Scaffold1317	22203	GG	TT	1947003201
SNP_P4_158214_22254	NW_004516552.1	Scaffold1317	22254	GG	AA	1947003202
SNP_P4_158215_22268	NW_004516552.1	Scaffold1317	22268	AA	GG	1947003203
SNP_P4_158217_32427	NW_004516552.1	Scaffold1317	32427	GG	AA	1947003204
SNP_P4_158218_32449	NW_004516552.1	Scaffold1317	32449	CC	TT	1947003206
SNP_P4_158219_39619	NW_004516552.1	Scaffold1317	39619	CC	TT	1947003208
SNP_P4_158221_42917	NW_004516552.1	Scaffold1317	42917	GG	TT	1947003210
SNP_P4_158222_43436	NW_004516552.1	Scaffold1317	43436	TT	AA	1947003212
SNP_P4_158223_44305	NW_004516552.1	Scaffold1317	44305	TT	GG	1947003214
SNP_P4_158224_44373	NW_004516552.1	Scaffold1317	44373	AA	GG	1947003216
SNP_P4_158225_44390	NW_004516552.1	Scaffold1317	44390	GG	TT	1947003218
SNP_P4_158226_44523	NW_004516552.1	Scaffold1317	44523	CC	TT	1947003220
SNP_P4_158227_44527	NW_004516552.1	Scaffold1317	44527	GG	AA	1947003222
SNP_P4_158228_44746	NW_004516552.1	Scaffold1317	44746	AA	TT	1947003224
SNP_P4_158229_44748	NW_004516552.1	Scaffold1317	44748	AA	GG	1947003226
SNP_P4_158230_44787	NW_004516552.1	Scaffold1317	44787	AA	GG	1947003228
SNP_P4_158231_44802	NW_004516552.1	Scaffold1317	44802	AA	GG	1947003230
SNP_P4_158232_44832	NW_004516552.1	Scaffold1317	44832	TT	GG	1947003232
SNP_P4_158233_44880	NW_004516552.1	Scaffold1317	44880	CC	AA	1947003234
SNP_P4_158235_44950	NW_004516552.1	Scaffold1317	44950	AA	GG	1947003236
SNP_P4_158236_44951	NW_004516552.1	Scaffold1317	44951	AA	GG	1947003238
SNP_P4_158237_44952	NW_004516552.1	Scaffold1317	44952	CC	AA	1947003240
SNP_P4_158238_44983	NW_004516552.1	Scaffold1317	44983	GG	AA	1947003242
SNP_P4_158239_44985	NW_004516552.1	Scaffold1317	44985	CC	TT	1947003244
SNP_P4_158240_45012	NW_004516552.1	Scaffold1317	45012	CC	TT	1947003246
SNP_P4_158241_45067	NW_004516552.1	Scaffold1317	45067	GG	CC	1947003248
SNP_P4_158242_45142	NW_004516552.1	Scaffold1317	45142	GG	AA	1947003250
SNP_P4_158244_45170	NW_004516552.1	Scaffold1317	45170	AA	GG	1947003252
SNP_P4_158245_45223	NW_004516552.1	Scaffold1317	45223	AA	GG	1947003254
SNP_P4_158246_45227	NW_004516552.1	Scaffold1317	45227	CC	TT	1947003255
SNP_P4_158247_45245	NW_004516552.1	Scaffold1317	45245	GG	TT	1947003257
SNP_P4_158248_45261	NW_004516552.1	Scaffold1317	45261	GG	CC	1947003259
SNP_P4_158249_45266	NW_004516552.1	Scaffold1317	45266	GG	AA	1947003261
SNP_P4_158250_45283	NW_004516552.1	Scaffold1317	45283	AA	CC	1947003263
SNP_P4_158251_45304	NW_004516552.1	Scaffold1317	45304	AA	GG	1947003265

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_158252_45416	NW_004516552.1	Scaffold1317	45416	AA	GG	1947003267
SNP_P4_158253_45457	NW_004516552.1	Scaffold1317	45457	TT	CC	1947003269
SNP_P4_158254_45528	NW_004516552.1	Scaffold1317	45528	AA	GG	1947003271
SNP_P4_158255_45561	NW_004516552.1	Scaffold1317	45561	CC	TT	1947003273
SNP_P4_158256_45852	NW_004516552.1	Scaffold1317	45852	CC	AA	1947003275
SNP_P4_158257_46041	NW_004516552.1	Scaffold1317	46041	TT	GG	1947003277
SNP_P4_158258_46237	NW_004516552.1	Scaffold1317	46237	CC	TT	1947003279
SNP_P4_158261_46417	NW_004516552.1	Scaffold1317	46417	TT	GG	1947003281
SNP_P4_158262_46455	NW_004516552.1	Scaffold1317	46455	CC	TT	1947003283
SNP_P4_158263_46483	NW_004516552.1	Scaffold1317	46483	AA	CC	1947003285
SNP_P4_158264_46489	NW_004516552.1	Scaffold1317	46489	GG	AA	1947003287
SNP_P4_158265_46550	NW_004516552.1	Scaffold1317	46550	GG	TT	1947003289
SNP_P4_158266_46551	NW_004516552.1	Scaffold1317	46551	AA	GG	1947003291
SNP_P4_158267_46553	NW_004516552.1	Scaffold1317	46553	TT	AA	1947003293
SNP_P4_158268_46567	NW_004516552.1	Scaffold1317	46567	GG	AA	1947003295
SNP_P4_158270_46621	NW_004516552.1	Scaffold1317	46621	TT	AA	1947003297
SNP_P4_158271_46711	NW_004516552.1	Scaffold1317	46711	AA	GG	1947003299
SNP_P4_158272_48481	NW_004516552.1	Scaffold1317	48481	AA	TT	1947003301
SNP_P4_158273_49604	NW_004516552.1	Scaffold1317	49604	CC	GG	1947003303
SNP_P4_158274_56182	NW_004516552.1	Scaffold1317	56182	CC	TT	1947003305
SNP_P4_158275_56291	NW_004516552.1	Scaffold1317	56291	AA	GG	1947003307
SNP_P4_158276_56600	NW_004516552.1	Scaffold1317	56600	TT	CC	1947003309
SNP_P4_158277_56662	NW_004516552.1	Scaffold1317	56662	TT	CC	1947003311
SNP_P4_158278_57604	NW_004516552.1	Scaffold1317	57604	GG	AA	1947003313
SNP_P4_158279_59382	NW_004516552.1	Scaffold1317	59382	TT	CC	1947003315
SNP_P4_158280_59708	NW_004516552.1	Scaffold1317	59708	AA	GG	1947003317
SNP_P4_158281_59830	NW_004516552.1	Scaffold1317	59830	TT	GG	1947003319
SNP_P4_158283_59899	NW_004516552.1	Scaffold1317	59899	AA	GG	1947003321
SNP_P4_158284_59928	NW_004516552.1	Scaffold1317	59928	TT	CC	1947003323
SNP_P4_158285_62055	NW_004516552.1	Scaffold1317	62055	TT	GG	1947003325
SNP_P4_158287_62829	NW_004516552.1	Scaffold1317	62829	AA	TT	1947003327
SNP_P4_158288_62935	NW_004516552.1	Scaffold1317	62935	GG	AA	1947003329
SNP_P4_158290_63218	NW_004516552.1	Scaffold1317	63218	CC	AA	1947003331
SNP_P4_158291_63232	NW_004516552.1	Scaffold1317	63232	TT	CC	1947003333
SNP_P4_158292_63268	NW_004516552.1	Scaffold1317	63268	GG	AA	1947003335
SNP_P4_158293_63269	NW_004516552.1	Scaffold1317	63269	TT	CC	1947003337
SNP_P4_158294_63277	NW_004516552.1	Scaffold1317	63277	TT	CC	1947003339
SNP_P4_158295_63283	NW_004516552.1	Scaffold1317	63283	GG	AA	1947003341
SNP_P4_158296_63289	NW_004516552.1	Scaffold1317	63289	AA	GG	1947003343
SNP_P4_158297_63290	NW_004516552.1	Scaffold1317	63290	CC	TT	1947003345
SNP_P4_158298_63297	NW_004516552.1	Scaffold1317	63297	AA	CC	1947003347
SNP_P4_158299_63316	NW_004516552.1	Scaffold1317	63316	CC	GG	1947003349

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_158301_63369	NW_004516552.1	Scaffold1317	63369	TT	CC	1947003353
SNP_P4_158302_63406	NW_004516552.1	Scaffold1317	63406	CC	TT	1947003355
SNP_P4_158303_63420	NW_004516552.1	Scaffold1317	63420	CC	GG	1947003357
SNP_P4_158304_63454	NW_004516552.1	Scaffold1317	63454	GG	CC	1947003359
SNP_P4_158305_63508	NW_004516552.1	Scaffold1317	63508	CC	TT	1947003361
SNP_P4_158306_63509	NW_004516552.1	Scaffold1317	63509	CC	TT	1947003363
SNP_P4_158307_63590	NW_004516552.1	Scaffold1317	63590	CC	TT	1947003365
SNP_P4_158308_63593	NW_004516552.1	Scaffold1317	63593	CC	TT	1947003367
SNP_P4_158309_63595	NW_004516552.1	Scaffold1317	63595	CC	TT	1947003369
SNP_P4_158310_63603	NW_004516552.1	Scaffold1317	63603	GG	AA	1947003371
SNP_P4_158311_63658	NW_004516552.1	Scaffold1317	63658	TT	AA	1947003373
SNP_P4_158312_63720	NW_004516552.1	Scaffold1317	63720	TT	CC	1947003375
SNP_P4_158313_63814	NW_004516552.1	Scaffold1317	63814	AA	CC	1947003377
SNP_P4_158314_63826	NW_004516552.1	Scaffold1317	63826	AA	GG	1947003379
SNP_P4_158315_63844	NW_004516552.1	Scaffold1317	63844	GG	AA	1947003381
SNP_P4_158316_63901	NW_004516552.1	Scaffold1317	63901	TT	CC	1947003383
SNP_P4_158317_63932	NW_004516552.1	Scaffold1317	63932	AA	GG	1947003385
SNP_P4_158318_63942	NW_004516552.1	Scaffold1317	63942	GG	AA	1947003387
SNP_P4_158319_64742	NW_004516552.1	Scaffold1317	64742	TT	GG	1947003389
SNP_P4_158320_65029	NW_004516552.1	Scaffold1317	65029	AA	TT	1947003391
SNP_P4_158321_66074	NW_004516552.1	Scaffold1317	66074	CC	AA	1947003393
SNP_P4_158322_66085	NW_004516552.1	Scaffold1317	66085	TT	CC	1947003395
SNP_P4_158323_66092	NW_004516552.1	Scaffold1317	66092	GG	TT	1947003396
SNP_P4_158324_66093	NW_004516552.1	Scaffold1317	66093	AA	GG	1947003397
SNP_P4_158325_66599	NW_004516552.1	Scaffold1317	66599	AA	GG	1947003398
SNP_P4_158326_66704	NW_004516552.1	Scaffold1317	66704	CC	AA	1947003399
SNP_P4_158327_66713	NW_004516552.1	Scaffold1317	66713	GG	AA	1947003401
SNP_P4_158328_68065	NW_004516552.1	Scaffold1317	68065	CC	TT	1947003403
SNP_P4_158330_68438	NW_004516552.1	Scaffold1317	68438	TT	AA	1947003405
SNP_P4_158331_69278	NW_004516552.1	Scaffold1317	69278	AA	GG	1947003407
SNP_P4_158332_69475	NW_004516552.1	Scaffold1317	69475	CC	TT	1947003409
SNP_P4_158333_69491	NW_004516552.1	Scaffold1317	69491	GG	AA	1947003411
SNP_P4_158334_69631	NW_004516552.1	Scaffold1317	69631	AA	CC	1947003413
SNP_P4_158335_72720	NW_004516552.1	Scaffold1317	72720	GG	AA	1947003415
SNP_P4_158336_73091	NW_004516552.1	Scaffold1317	73091	GG	AA	1947003417
SNP_P4_158337_73292	NW_004516552.1	Scaffold1317	73292	CC	TT	1947003419
SNP_P4_158338_73352	NW_004516552.1	Scaffold1317	73352	GG	AA	1947003421
SNP_P4_158339_73370	NW_004516552.1	Scaffold1317	73370	GG	TT	1947003423
SNP_P4_158340_73378	NW_004516552.1	Scaffold1317	73378	CC	GG	1947003425
SNP_P4_158341_73698	NW_004516552.1	Scaffold1317	73698	GG	AA	1947003427
SNP_P4_158343_9544	NW_004516553.1	Scaffold1319	9544	TT	CC	1947003429

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_158345_19647	NW_004516553.1	Scaffold1319	19647	TT	AA	1947003433
SNP_P4_158346_19648	NW_004516553.1	Scaffold1319	19648	CC	AA	1947003435
SNP_P4_158347_19693	NW_004516553.1	Scaffold1319	19693	GG	TT	1947003437
SNP_P4_158348_19834	NW_004516553.1	Scaffold1319	19834	CC	GG	1947003439
SNP_P4_158349_20000	NW_004516553.1	Scaffold1319	20000	GG	AA	1947003441
SNP_P4_158350_20345	NW_004516553.1	Scaffold1319	20345	AA	GG	1947003443
SNP_P4_158351_20349	NW_004516553.1	Scaffold1319	20349	GG	AA	1947003445
SNP_P4_158352_20421	NW_004516553.1	Scaffold1319	20421	AA	CC	1947003447
SNP_P4_158353_129	NW_004516554.1	Scaffold1320	129	TT	CC	1947003449
SNP_P4_158354_343	NW_004516554.1	Scaffold1320	343	AA	CC	1947003451
SNP_P4_158355_454	NW_004516554.1	Scaffold1320	454	TT	GG	1947003453
SNP_P4_158356_574	NW_004516554.1	Scaffold1320	574	CC	TT	1947003455
SNP_P4_158357_660	NW_004516554.1	Scaffold1320	660	AA	CC	1947003457
SNP_P4_158358_675	NW_004516554.1	Scaffold1320	675	GG	AA	1947003459
SNP_P4_158359_698	NW_004516554.1	Scaffold1320	698	GG	CC	1947003461
SNP_P4_158360_1029	NW_004516554.1	Scaffold1320	1029	AA	TT	1947003463
SNP_P4_158361_1040	NW_004516554.1	Scaffold1320	1040	CC	TT	1947003465
SNP_P4_158362_1407	NW_004516554.1	Scaffold1320	1407	GG	CC	1947003467
SNP_P4_158363_2692	NW_004516554.1	Scaffold1320	2692	CC	AA	1947003469
SNP_P4_158364_3293	NW_004516554.1	Scaffold1320	3293	AA	CC	1947003471
SNP_P4_158365_3294	NW_004516554.1	Scaffold1320	3294	TT	CC	1947003473
SNP_P4_158366_10818	NW_004516554.1	Scaffold1320	10818	AA	CC	1947003475
SNP_P4_158367_10819	NW_004516554.1	Scaffold1320	10819	AA	CC	1947003477
SNP_P4_158368_10832	NW_004516554.1	Scaffold1320	10832	TT	CC	1947003479
SNP_P4_158369_17259	NW_004516554.1	Scaffold1320	17259	GG	AA	1947003481
SNP_P4_158370_26845	NW_004516554.1	Scaffold1320	26845	AA	GG	1947003483
SNP_P4_158371_8807	NW_004516556.1	Scaffold1322	8807	TT	AA	1947003485
SNP_P4_158372_9113	NW_004516556.1	Scaffold1322	9113	AA	CC	1947003487
SNP_P4_158373_9116	NW_004516556.1	Scaffold1322	9116	GG	AA	1947003489
SNP_P4_158374_9201	NW_004516556.1	Scaffold1322	9201	GG	TT	1947003491
SNP_P4_158375_9608	NW_004516556.1	Scaffold1322	9608	TT	GG	1947003493
SNP_P4_158376_9711	NW_004516556.1	Scaffold1322	9711	TT	CC	1947003495
SNP_P4_158378_9804	NW_004516556.1	Scaffold1322	9804	TT	GG	1947003497
SNP_P4_158379_9820	NW_004516556.1	Scaffold1322	9820	TT	AA	1947003499
SNP_P4_158380_9873	NW_004516556.1	Scaffold1322	9873	TT	AA	1947003501
SNP_P4_158381_9875	NW_004516556.1	Scaffold1322	9875	CC	TT	1947003503
SNP_P4_158382_9936	NW_004516556.1	Scaffold1322	9936	TT	AA	1947003505
SNP_P4_158383_9990	NW_004516556.1	Scaffold1322	9990	TT	AA	1947003507
SNP_P4_158384_4585	NW_004516557.1	Scaffold1323	4585	GG	TT	1947003509
SNP_P4_158385_4610	NW_004516557.1	Scaffold1323	4610	GG	TT	1947003511
SNP_P4_158386_5969	NW_004516557.1	Scaffold1323	5969	CC	AA	1947003513

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_158388_6002	NW_004516557.1	Scaffold1323	6002	TT	AA	1947003517
SNP_P4_158389_6007	NW_004516557.1	Scaffold1323	6007	CC	TT	1947003519
SNP_P4_158390_6052	NW_004516557.1	Scaffold1323	6052	AA	TT	1947003521
SNP_P4_158391_6055	NW_004516557.1	Scaffold1323	6055	AA	GG	1947003523
SNP_P4_158392_6194	NW_004516557.1	Scaffold1323	6194	GG	TT	1947003525
SNP_P4_158393_6195	NW_004516557.1	Scaffold1323	6195	GG	AA	1947003527
SNP_P4_158394_6231	NW_004516557.1	Scaffold1323	6231	CC	TT	1947003529
SNP_P4_158395_6558	NW_004516557.1	Scaffold1323	6558	AA	GG	1947003531
SNP_P4_158396_6588	NW_004516557.1	Scaffold1323	6588	CC	GG	1947003533
SNP_P4_158398_14841	NW_004516557.1	Scaffold1323	14841	AA	CC	1947003535
SNP_P4_158399_7370	NW_004516558.1	Scaffold1324	7370	CC	TT	1947003536
SNP_P4_158400_7623	NW_004516558.1	Scaffold1324	7623	AA	CC	1947003538
SNP_P4_158401_7890	NW_004516558.1	Scaffold1324	7890	CC	TT	1947003540
SNP_P4_158403_7982	NW_004516558.1	Scaffold1324	7982	GG	AA	1947003542
SNP_P4_158404_7995	NW_004516558.1	Scaffold1324	7995	CC	AA	1947003544
SNP_P4_158405_8021	NW_004516558.1	Scaffold1324	8021	TT	CC	1947003546
SNP_P4_158406_8043	NW_004516558.1	Scaffold1324	8043	TT	AA	1947003548
SNP_P4_158407_8044	NW_004516558.1	Scaffold1324	8044	AA	GG	1947003550
SNP_P4_158408_8053	NW_004516558.1	Scaffold1324	8053	CC	TT	1947003552
SNP_P4_158409_8085	NW_004516558.1	Scaffold1324	8085	AA	CC	1947003554
SNP_P4_158410_8088	NW_004516558.1	Scaffold1324	8088	GG	TT	1947003556
SNP_P4_158411_8097	NW_004516558.1	Scaffold1324	8097	TT	AA	1947003557
SNP_P4_158412_8112	NW_004516558.1	Scaffold1324	8112	CC	TT	1947003559
SNP_P4_158413_8141	NW_004516558.1	Scaffold1324	8141	CC	TT	1947003561
SNP_P4_158414_8147	NW_004516558.1	Scaffold1324	8147	CC	TT	1947003563
SNP_P4_158415_8163	NW_004516558.1	Scaffold1324	8163	TT	CC	1947003565
SNP_P4_158416_8178	NW_004516558.1	Scaffold1324	8178	GG	TT	1947003567
SNP_P4_158417_8192	NW_004516558.1	Scaffold1324	8192	AA	TT	1947003569
SNP_P4_158418_8195	NW_004516558.1	Scaffold1324	8195	AA	TT	1947003571
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SNP_P4_158421_8232	NW_004516558.1	Scaffold1324	8232	GG	AA	1947003577
SNP_P4_158422_8259	NW_004516558.1	Scaffold1324	8259	AA	GG	1947003579
SNP_P4_158423_8266	NW_004516558.1	Scaffold1324	8266	GG	AA	1947003581
SNP_P4_158424_8284	NW_004516558.1	Scaffold1324	8284	AA	CC	1947003583
SNP_P4_158425_8315	NW_004516558.1	Scaffold1324	8315	TT	CC	1947003585
SNP_P4_158426_8399	NW_004516558.1	Scaffold1324	8399	GG	AA	1947003587
SNP_P4_158427_8405	NW_004516558.1	Scaffold1324	8405	TT	AA	1947003589
SNP_P4_158428_8415	NW_004516558.1	Scaffold1324	8415	TT	GG	1947003591
SNP_P4_158429_8417	NW_004516558.1	Scaffold1324	8417	TT	CC	1947003592
SNP_P4_158430_8445	NW_004516558.1	Scaffold1324	8445	TT	AA	1947003594

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_158433_8613	NW_004516558.1	Scaffold1324	8613	GG	CC	1947003598
SNP_P4_158435_49572	NW_004516558.1	Scaffold1324	49572	GG	AA	1947003600
SNP_P4_158436_49635	NW_004516558.1	Scaffold1324	49635	AA	TT	1947003602
SNP_P4_158438_49941	NW_004516558.1	Scaffold1324	49941	AA	TT	1947003604
SNP_P4_158439_53422	NW_004516558.1	Scaffold1324	53422	AA	TT	1947003606
SNP_P4_158440_55885	NW_004516558.1	Scaffold1324	55885	CC	TT	1947003608
SNP_P4_158441_61731	NW_004516558.1	Scaffold1324	61731	TT	CC	1947003610
SNP_P4_158442_71718	NW_004516558.1	Scaffold1324	71718	GG	AA	1947003612
SNP_P4_158444_109214	NW_004516558.1	Scaffold1324	109214	GG	TT	1947003614
SNP_P4_158445_110340	NW_004516558.1	Scaffold1324	110340	AA	GG	1947003615
SNP_P4_158446_110369	NW_004516558.1	Scaffold1324	110369	TT	CC	1947003617
SNP_P4_158447_110426	NW_004516558.1	Scaffold1324	110426	AA	GG	1947003619
SNP_P4_158449_110502	NW_004516558.1	Scaffold1324	110502	AA	TT	1947003621
SNP_P4_158450_110722	NW_004516558.1	Scaffold1324	110722	AA	CC	1947003623
SNP_P4_158451_110759	NW_004516558.1	Scaffold1324	110759	TT	AA	1947003625
SNP_P4_158452_110804	NW_004516558.1	Scaffold1324	110804	CC	TT	1947003627
SNP_P4_158453_110808	NW_004516558.1	Scaffold1324	110808	AA	GG	1947003629
SNP_P4_158454_110832	NW_004516558.1	Scaffold1324	110832	GG	AA	1947003631
SNP_P4_158455_113370	NW_004516558.1	Scaffold1324	113370	AA	CC	1947003633
SNP_P4_158456_116751	NW_004516558.1	Scaffold1324	116751	CC	TT	1947003635
SNP_P4_158457_118831	NW_004516558.1	Scaffold1324	118831	AA	CC	1947003637
SNP_P4_158458_118959	NW_004516558.1	Scaffold1324	118959	TT	GG	1947003639
SNP_P4_158459_118992	NW_004516558.1	Scaffold1324	118992	AA	GG	1947003640
SNP_P4_158460_119035	NW_004516558.1	Scaffold1324	119035	CC	TT	1947003642
SNP_P4_158461_119047	NW_004516558.1	Scaffold1324	119047	GG	AA	1947003644
SNP_P4_158462_163765	NW_004516558.1	Scaffold1324	163765	CC	TT	1947003646
SNP_P4_158463_171122	NW_004516558.1	Scaffold1324	171122	CC	AA	1947003648
SNP_P4_158464_190170	NW_004516558.1	Scaffold1324	190170	GG	AA	1947003650
SNP_P4_158465_190171	NW_004516558.1	Scaffold1324	190171	CC	GG	1947003652
SNP_P4_158466_190199	NW_004516558.1	Scaffold1324	190199	TT	GG	1947003655
SNP_P4_158467_190515	NW_004516558.1	Scaffold1324	190515	GG	AA	1947003657
SNP_P4_158468_190522	NW_004516558.1	Scaffold1324	190522	AA	GG	1947003659
SNP_P4_158469_190590	NW_004516558.1	Scaffold1324	190590	AA	CC	1947003661
SNP_P4_158470_193088	NW_004516558.1	Scaffold1324	193088	AA	GG	1947003663
SNP_P4_158471_219371	NW_004516558.1	Scaffold1324	219371	CC	AA	1947003665
SNP_P4_158472_219384	NW_004516558.1	Scaffold1324	219384	CC	TT	1947003667
SNP_P4_158473_219401	NW_004516558.1	Scaffold1324	219401	AA	GG	1947003668
SNP_P4_158474_219569	NW_004516558.1	Scaffold1324	219569	TT	AA	1947003670
SNP_P4_158475_219706	NW_004516558.1	Scaffold1324	219706	GG	TT	1947003672
SNP_P4_158476_219881	NW_004516558.1	Scaffold1324	219881	AA	GG	1947003674
SNP_P4_158477_219913	NW_004516558.1	Scaffold1324	219913	AA	CC	1947003677

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_158478_219934	NW_004516558.1	Scaffold1324	219934	CC	AA	1947003679
SNP_P4_158479_219958	NW_004516558.1	Scaffold1324	219958	GG	AA	1947003681
SNP_P4_158480_219962	NW_004516558.1	Scaffold1324	219962	TT	AA	1947003683
SNP_P4_158481_225149	NW_004516558.1	Scaffold1324	225149	CC	TT	1947003685
SNP_P4_158482_225724	NW_004516558.1	Scaffold1324	225724	TT	AA	1947003687
SNP_P4_158483_225726	NW_004516558.1	Scaffold1324	225726	GG	TT	1947003689
SNP_P4_158484_225761	NW_004516558.1	Scaffold1324	225761	CC	TT	1947003691
SNP_P4_158485_225774	NW_004516558.1	Scaffold1324	225774	TT	CC	1947003693
SNP_P4_158486_225896	NW_004516558.1	Scaffold1324	225896	GG	AA	1947003695
SNP_P4_158487_226001	NW_004516558.1	Scaffold1324	226001	TT	GG	1947003697
SNP_P4_158488_226076	NW_004516558.1	Scaffold1324	226076	CC	TT	1947003699
SNP_P4_158489_226086	NW_004516558.1	Scaffold1324	226086	AA	TT	1947003701
SNP_P4_158490_226172	NW_004516558.1	Scaffold1324	226172	TT	GG	1947003703
SNP_P4_158491_226185	NW_004516558.1	Scaffold1324	226185	TT	CC	1947003705
SNP_P4_158492_226286	NW_004516558.1	Scaffold1324	226286	AA	TT	1947003707
SNP_P4_158493_226409	NW_004516558.1	Scaffold1324	226409	AA	CC	1947003709
SNP_P4_158494_226444	NW_004516558.1	Scaffold1324	226444	GG	AA	1947003711
SNP_P4_158495_226660	NW_004516558.1	Scaffold1324	226660	CC	AA	1947003713
SNP_P4_158496_226975	NW_004516558.1	Scaffold1324	226975	AA	GG	1947003715
SNP_P4_158497_226980	NW_004516558.1	Scaffold1324	226980	AA	GG	1947003717
SNP_P4_158498_227036	NW_004516558.1	Scaffold1324	227036	GG	AA	1947003719
SNP_P4_158499_227049	NW_004516558.1	Scaffold1324	227049	TT	CC	1947003721
SNP_P4_158500_227067	NW_004516558.1	Scaffold1324	227067	GG	AA	1947003723
SNP_P4_158501_227312	NW_004516558.1	Scaffold1324	227312	AA	GG	1947003725
SNP_P4_158503_227409	NW_004516558.1	Scaffold1324	227409	TT	GG	1947003727
SNP_P4_158504_227425	NW_004516558.1	Scaffold1324	227425	AA	CC	1947003729
SNP_P4_158505_227535	NW_004516558.1	Scaffold1324	227535	TT	AA	1947003731
SNP_P4_158506_227536	NW_004516558.1	Scaffold1324	227536	GG	TT	1947003733
SNP_P4_158507_227664	NW_004516558.1	Scaffold1324	227664	GG	AA	1947003735
SNP_P4_158508_227843	NW_004516558.1	Scaffold1324	227843	TT	CC	1947003737
SNP_P4_158509_227893	NW_004516558.1	Scaffold1324	227893	CC	TT	1947003739
SNP_P4_158510_227964	NW_004516558.1	Scaffold1324	227964	GG	AA	1947003741
SNP_P4_158511_227978	NW_004516558.1	Scaffold1324	227978	TT	AA	1947003743
SNP_P4_158512_228159	NW_004516558.1	Scaffold1324	228159	AA	CC	1947003745
SNP_P4_158513_228328	NW_004516558.1	Scaffold1324	228328	TT	GG	1947003747
SNP_P4_158514_228459	NW_004516558.1	Scaffold1324	228459	AA	TT	1947003749
SNP_P4_158515_228536	NW_004516558.1	Scaffold1324	228536	CC	AA	1947003750
SNP_P4_158516_228548	NW_004516558.1	Scaffold1324	228548	AA	TT	1947003752
SNP_P4_158517_228679	NW_004516558.1	Scaffold1324	228679	AA	GG	1947003754
SNP_P4_158518_228793	NW_004516558.1	Scaffold1324	228793	GG	AA	1947003756
SNP_P4_158519_228868	NW_004516558.1	Scaffold1324	228868	AA	GG	1947003758
SNP_P4_158520_232002	NW_004516558.1	Scaffold1324	232002	CC	TT	1947003760

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_158522_234679	NW_004516558.1	Scaffold1324	234679	GG	AA	1947003765
SNP_P4_158523_234693	NW_004516558.1	Scaffold1324	234693	GG	AA	1947003767
SNP_P4_158524_234716	NW_004516558.1	Scaffold1324	234716	TT	AA	1947003769
SNP_P4_158525_234817	NW_004516558.1	Scaffold1324	234817	CC	TT	1947003771
SNP_P4_158526_234825	NW_004516558.1	Scaffold1324	234825	AA	GG	1947003773
SNP_P4_158527_235040	NW_004516558.1	Scaffold1324	235040	TT	CC	1947003775
SNP_P4_158529_235263	NW_004516558.1	Scaffold1324	235263	CC	TT	1947003777
SNP_P4_158530_235264	NW_004516558.1	Scaffold1324	235264	AA	TT	1947003779
SNP_P4_158531_235302	NW_004516558.1	Scaffold1324	235302	CC	TT	1947003781
SNP_P4_158532_235374	NW_004516558.1	Scaffold1324	235374	TT	AA	1947003783
SNP_P4_158533_235454	NW_004516558.1	Scaffold1324	235454	TT	GG	1947003785
SNP_P4_158534_235619	NW_004516558.1	Scaffold1324	235619	AA	GG	1947003787
SNP_P4_158535_235741	NW_004516558.1	Scaffold1324	235741	TT	CC	1947003789
SNP_P4_158536_235778	NW_004516558.1	Scaffold1324	235778	CC	TT	1947003791
SNP_P4_158537_236004	NW_004516558.1	Scaffold1324	236004	GG	AA	1947003793
SNP_P4_158538_236020	NW_004516558.1	Scaffold1324	236020	AA	GG	1947003795
SNP_P4_158539_236072	NW_004516558.1	Scaffold1324	236072	AA	CC	1947003797
SNP_P4_158540_236153	NW_004516558.1	Scaffold1324	236153	AA	CC	1947003799
SNP_P4_158541_236212	NW_004516558.1	Scaffold1324	236212	GG	AA	1947003801
SNP_P4_158542_236250	NW_004516558.1	Scaffold1324	236250	AA	GG	1947003803
SNP_P4_158543_236261	NW_004516558.1	Scaffold1324	236261	GG	AA	1947003805
SNP_P4_158544_236280	NW_004516558.1	Scaffold1324	236280	TT	GG	1947003807
SNP_P4_158545_236414	NW_004516558.1	Scaffold1324	236414	GG	AA	1947003809
SNP_P4_158546_236473	NW_004516558.1	Scaffold1324	236473	GG	AA	1947003811
SNP_P4_158547_236495	NW_004516558.1	Scaffold1324	236495	AA	CC	1947003813
SNP_P4_158548_236516	NW_004516558.1	Scaffold1324	236516	CC	TT	1947003815
SNP_P4_158549_236540	NW_004516558.1	Scaffold1324	236540	AA	GG	1947003817
SNP_P4_158551_236759	NW_004516558.1	Scaffold1324	236759	AA	GG	1947003819
SNP_P4_158552_236853	NW_004516558.1	Scaffold1324	236853	GG	CC	1947003821
SNP_P4_158553_236916	NW_004516558.1	Scaffold1324	236916	TT	CC	1947003823
SNP_P4_158554_237069	NW_004516558.1	Scaffold1324	237069	AA	CC	1947003825
SNP_P4_158555_237071	NW_004516558.1	Scaffold1324	237071	CC	TT	1947003827
SNP_P4_158556_237097	NW_004516558.1	Scaffold1324	237097	AA	GG	1947003829
SNP_P4_158557_237098	NW_004516558.1	Scaffold1324	237098	TT	CC	1947003831
SNP_P4_158558_237112	NW_004516558.1	Scaffold1324	237112	TT	CC	1947003833
SNP_P4_158559_237114	NW_004516558.1	Scaffold1324	237114	GG	TT	1947003835
SNP_P4_158560_237189	NW_004516558.1	Scaffold1324	237189	GG	AA	1947003837
SNP_P4_158561_237202	NW_004516558.1	Scaffold1324	237202	GG	AA	1947003839
SNP_P4_158562_237300	NW_004516558.1	Scaffold1324	237300	AA	GG	1947003841
SNP_P4_158563_237379	NW_004516558.1	Scaffold1324	237379	TT	CC	1947003843
SNP_P4_158564_237502	NW_004516558.1	Scaffold1324	237502	CC	TT	1947003845

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_158566_237539	NW_004516558.1	Scaffold1324	237539	TT	CC	1947003849
SNP_P4_158567_237904	NW_004516558.1	Scaffold1324	237904	AA	GG	1947003851
SNP_P4_158568_237932	NW_004516558.1	Scaffold1324	237932	CC	TT	1947003853
SNP_P4_158569_237935	NW_004516558.1	Scaffold1324	237935	TT	CC	1947003855
SNP_P4_158570_238070	NW_004516558.1	Scaffold1324	238070	CC	TT	1947003857
SNP_P4_158573_238507	NW_004516558.1	Scaffold1324	238507	TT	CC	1947003859
SNP_P4_158574_238532	NW_004516558.1	Scaffold1324	238532	AA	GG	1947003861
SNP_P4_158575_238745	NW_004516558.1	Scaffold1324	238745	CC	TT	1947003863
SNP_P4_158576_238805	NW_004516558.1	Scaffold1324	238805	CC	TT	1947003865
SNP_P4_158577_238872	NW_004516558.1	Scaffold1324	238872	GG	CC	1947003867
SNP_P4_158578_238936	NW_004516558.1	Scaffold1324	238936	AA	GG	1947003869
SNP_P4_158579_238966	NW_004516558.1	Scaffold1324	238966	TT	CC	1947003871
SNP_P4_158580_238992	NW_004516558.1	Scaffold1324	238992	TT	CC	1947003873
SNP_P4_158581_239125	NW_004516558.1	Scaffold1324	239125	GG	AA	1947003875
SNP_P4_158582_239133	NW_004516558.1	Scaffold1324	239133	TT	CC	1947003877
SNP_P4_158583_239134	NW_004516558.1	Scaffold1324	239134	GG	AA	1947003879
SNP_P4_158584_239184	NW_004516558.1	Scaffold1324	239184	GG	AA	1947003881
SNP_P4_158585_239336	NW_004516558.1	Scaffold1324	239336	GG	TT	1947003883
SNP_P4_158586_239604	NW_004516558.1	Scaffold1324	239604	AA	GG	1947003885
SNP_P4_158587_239790	NW_004516558.1	Scaffold1324	239790	GG	AA	1947003887
SNP_P4_158588_239791	NW_004516558.1	Scaffold1324	239791	TT	CC	1947003889
SNP_P4_158589_240447	NW_004516558.1	Scaffold1324	240447	GG	AA	1947003891
SNP_P4_158590_240455	NW_004516558.1	Scaffold1324	240455	TT	CC	1947003893
SNP_P4_158591_240508	NW_004516558.1	Scaffold1324	240508	AA	GG	1947003895
SNP_P4_158592_240530	NW_004516558.1	Scaffold1324	240530	CC	TT	1947003897
SNP_P4_158593_240569	NW_004516558.1	Scaffold1324	240569	TT	CC	1947003899
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SNP_P4_158596_240773	NW_004516558.1	Scaffold1324	240773	TT	AA	1947003904
SNP_P4_158597_241003	NW_004516558.1	Scaffold1324	241003	TT	CC	1947003906
SNP_P4_158598_241021	NW_004516558.1	Scaffold1324	241021	AA	GG	1947003908
SNP_P4_158599_241041	NW_004516558.1	Scaffold1324	241041	TT	CC	1947003910
SNP_P4_158600_241203	NW_004516558.1	Scaffold1324	241203	TT	CC	1947003912
SNP_P4_158601_241206	NW_004516558.1	Scaffold1324	241206	TT	GG	1947003914
SNP_P4_158602_241251	NW_004516558.1	Scaffold1324	241251	GG	TT	1947003916
SNP_P4_158603_241328	NW_004516558.1	Scaffold1324	241328	TT	CC	1947003918
SNP_P4_158604_241353	NW_004516558.1	Scaffold1324	241353	AA	TT	1947003920
SNP_P4_158605_241523	NW_004516558.1	Scaffold1324	241523	TT	CC	1947003922
SNP_P4_158606_241558	NW_004516558.1	Scaffold1324	241558	CC	TT	1947003924
SNP_P4_158607_241569	NW_004516558.1	Scaffold1324	241569	TT	CC	1947003926
SNP_P4_158608_241582	NW_004516558.1	Scaffold1324	241582	GG	AA	1947003927

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_158610_241809	NW_004516558.1	Scaffold1324	241809	AA	CC	1947003931
SNP_P4_158611_241819	NW_004516558.1	Scaffold1324	241819	TT	GG	1947003933
SNP_P4_158612_241847	NW_004516558.1	Scaffold1324	241847	CC	TT	1947003935
SNP_P4_158613_241850	NW_004516558.1	Scaffold1324	241850	TT	CC	1947003937
SNP_P4_158614_241884	NW_004516558.1	Scaffold1324	241884	GG	CC	1947003939
SNP_P4_158616_245660	NW_004516558.1	Scaffold1324	245660	AA	GG	1947003941
SNP_P4_158617_245669	NW_004516558.1	Scaffold1324	245669	GG	AA	1947003943
SNP_P4_158618_247901	NW_004516558.1	Scaffold1324	247901	CC	TT	1947003945
SNP_P4_158619_248095	NW_004516558.1	Scaffold1324	248095	TT	AA	1947003946
SNP_P4_158620_248344	NW_004516558.1	Scaffold1324	248344	CC	TT	1947003948
SNP_P4_158622_252751	NW_004516558.1	Scaffold1324	252751	CC	TT	1947003950
SNP_P4_158623_252775	NW_004516558.1	Scaffold1324	252775	AA	GG	1947003952
SNP_P4_158625_252843	NW_004516558.1	Scaffold1324	252843	AA	CC	1947003954
SNP_P4_158626_253082	NW_004516558.1	Scaffold1324	253082	TT	CC	1947003956
SNP_P4_158627_253362	NW_004516558.1	Scaffold1324	253362	TT	GG	1947003958
SNP_P4_158628_253375	NW_004516558.1	Scaffold1324	253375	CC	TT	1947003960
SNP_P4_158629_253379	NW_004516558.1	Scaffold1324	253379	GG	TT	1947003962
SNP_P4_158630_253520	NW_004516558.1	Scaffold1324	253520	CC	AA	1947003963
SNP_P4_158631_253608	NW_004516558.1	Scaffold1324	253608	AA	GG	1947003965
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SNP_P4_158641_254248	NW_004516558.1	Scaffold1324	254248	GG	AA	1947003982
SNP_P4_158642_254261	NW_004516558.1	Scaffold1324	254261	CC	TT	1947003984
SNP_P4_158643_254945	NW_004516558.1	Scaffold1324	254945	AA	GG	1947003986
SNP_P4_158644_255028	NW_004516558.1	Scaffold1324	255028	CC	AA	1947003988
SNP_P4_158645_255090	NW_004516558.1	Scaffold1324	255090	AA	TT	1947003990
SNP_P4_158646_255279	NW_004516558.1	Scaffold1324	255279	GG	TT	1947003992
SNP_P4_158647_255579	NW_004516558.1	Scaffold1324	255579	GG	AA	1947003994
SNP_P4_158648_255580	NW_004516558.1	Scaffold1324	255580	GG	TT	1947003995
SNP_P4_158649_255591	NW_004516558.1	Scaffold1324	255591	CC	GG	1947003997
SNP_P4_158650_255595	NW_004516558.1	Scaffold1324	255595	AA	TT	1947003999
SNP_P4_158652_255687	NW_004516558.1	Scaffold1324	255687	AA	GG	1947004001
SNP_P4_158653_255734	NW_004516558.1	Scaffold1324	255734	AA	GG	1947004003
SNP_P4_158654_255774	NW_004516558.1	Scaffold1324	255774	CC	TT	1947004005
SNP_P4_158655_255787	NW_004516558.1	Scaffold1324	255787	GG	TT	1947004007

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_158660_256050	NW_004516558.1	Scaffold1324	256050	TT	CC	1947004013
SNP_P4_158661_256109	NW_004516558.1	Scaffold1324	256109	TT	CC	1947004015
SNP_P4_158662_256117	NW_004516558.1	Scaffold1324	256117	TT	CC	1947004017
SNP_P4_158663_256158	NW_004516558.1	Scaffold1324	256158	AA	GG	1947004019
SNP_P4_158664_256209	NW_004516558.1	Scaffold1324	256209	GG	CC	1947004021
SNP_P4_158665_256211	NW_004516558.1	Scaffold1324	256211	AA	TT	1947004023
SNP_P4_158666_256277	NW_004516558.1	Scaffold1324	256277	TT	GG	1947004024
SNP_P4_158668_256352	NW_004516558.1	Scaffold1324	256352	AA	GG	1947004026
SNP_P4_158669_256403	NW_004516558.1	Scaffold1324	256403	AA	TT	1947004028
SNP_P4_158670_256425	NW_004516558.1	Scaffold1324	256425	GG	AA	1947004030
SNP_P4_158671_256503	NW_004516558.1	Scaffold1324	256503	AA	GG	1947004032
SNP_P4_158672_256610	NW_004516558.1	Scaffold1324	256610	TT	CC	1947004034
SNP_P4_158673_262791	NW_004516558.1	Scaffold1324	262791	AA	TT	1947004036
SNP_P4_158674_265912	NW_004516558.1	Scaffold1324	265912	TT	CC	1947004038
SNP_P4_158675_266088	NW_004516558.1	Scaffold1324	266088	CC	TT	1947004040
SNP_P4_158677_266150	NW_004516558.1	Scaffold1324	266150	AA	CC	1947004042
SNP_P4_158678_266152	NW_004516558.1	Scaffold1324	266152	CC	TT	1947004044
SNP_P4_158679_266169	NW_004516558.1	Scaffold1324	266169	AA	GG	1947004046
SNP_P4_158680_266309	NW_004516558.1	Scaffold1324	266309	TT	AA	1947004048
SNP_P4_158681_266386	NW_004516558.1	Scaffold1324	266386	GG	TT	1947004050
SNP_P4_158682_266658	NW_004516558.1	Scaffold1324	266658	CC	TT	1947004052
SNP_P4_158684_266786	NW_004516558.1	Scaffold1324	266786	TT	CC	1947004054
SNP_P4_158685_266787	NW_004516558.1	Scaffold1324	266787	GG	AA	1947004056
SNP_P4_158687_266850	NW_004516558.1	Scaffold1324	266850	TT	GG	1947004058
SNP_P4_158688_266875	NW_004516558.1	Scaffold1324	266875	AA	GG	1947004060
SNP_P4_158689_266930	NW_004516558.1	Scaffold1324	266930	TT	CC	1947004062
SNP_P4_158690_267002	NW_004516558.1	Scaffold1324	267002	GG	CC	1947004064
SNP_P4_158691_267023	NW_004516558.1	Scaffold1324	267023	CC	TT	1947004065
SNP_P4_158692_267072	NW_004516558.1	Scaffold1324	267072	TT	CC	1947004066
SNP_P4_158693_267182	NW_004516558.1	Scaffold1324	267182	AA	TT	1947004067
SNP_P4_158694_267692	NW_004516558.1	Scaffold1324	267692	AA	CC	1947004068
SNP_P4_158695_267695	NW_004516558.1	Scaffold1324	267695	TT	CC	1947004070
SNP_P4_158696_267799	NW_004516558.1	Scaffold1324	267799	AA	GG	1947004072
SNP_P4_158697_267814	NW_004516558.1	Scaffold1324	267814	AA	GG	1947004074
SNP_P4_158698_267864	NW_004516558.1	Scaffold1324	267864	TT	CC	1947004076
SNP_P4_158699_267874	NW_004516558.1	Scaffold1324	267874	GG	AA	1947004078
SNP_P4_158700_267967	NW_004516558.1	Scaffold1324	267967	GG	AA	1947004080
SNP_P4_158702_268245	NW_004516558.1	Scaffold1324	268245	TT	AA	1947004082
SNP_P4_158703_268324	NW_004516558.1	Scaffold1324	268324	GG	TT	1947004084
SNP_P4_158705_268674	NW_004516558.1	Scaffold1324	268674	CC	TT	1947004086

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_158706_268786	NW_004516558.1	Scaffold1324	268786	GG	AA	1947004088
SNP_P4_158707_268868	NW_004516558.1	Scaffold1324	268868	AA	GG	1947004090
SNP_P4_158708_268904	NW_004516558.1	Scaffold1324	268904	TT	CC	1947004092
SNP_P4_158709_268926	NW_004516558.1	Scaffold1324	268926	TT	CC	1947004094
SNP_P4_158710_268984	NW_004516558.1	Scaffold1324	268984	GG	TT	1947004096
SNP_P4_158711_269083	NW_004516558.1	Scaffold1324	269083	AA	GG	1947004098
SNP_P4_158712_269150	NW_004516558.1	Scaffold1324	269150	CC	TT	1947004100
SNP_P4_158713_269325	NW_004516558.1	Scaffold1324	269325	GG	AA	1947004102
SNP_P4_158714_269469	NW_004516558.1	Scaffold1324	269469	CC	GG	1947004104
SNP_P4_158715_269999	NW_004516558.1	Scaffold1324	269999	CC	TT	1947004106
SNP_P4_158716_270055	NW_004516558.1	Scaffold1324	270055	TT	AA	1947004108
SNP_P4_158717_270059	NW_004516558.1	Scaffold1324	270059	TT	GG	1947004110
SNP_P4_158718_270140	NW_004516558.1	Scaffold1324	270140	CC	GG	1947004112
SNP_P4_158719_270172	NW_004516558.1	Scaffold1324	270172	AA	GG	1947004114
SNP_P4_158720_270197	NW_004516558.1	Scaffold1324	270197	AA	TT	1947004116
SNP_P4_158721_270316	NW_004516558.1	Scaffold1324	270316	GG	AA	1947004118
SNP_P4_158722_270334	NW_004516558.1	Scaffold1324	270334	CC	TT	1947004119
SNP_P4_158723_270393	NW_004516558.1	Scaffold1324	270393	GG	AA	1947004120
SNP_P4_158724_270398	NW_004516558.1	Scaffold1324	270398	CC	AA	1947004121
SNP_P4_158725_270429	NW_004516558.1	Scaffold1324	270429	CC	TT	1947004122
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SNP_P4_158727_270488	NW_004516558.1	Scaffold1324	270488	TT	CC	1947004124
SNP_P4_158728_270560	NW_004516558.1	Scaffold1324	270560	TT	AA	1947004125
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SNP_P4_158732_270664	NW_004516558.1	Scaffold1324	270664	GG	AA	1947004129
SNP_P4_158733_270771	NW_004516558.1	Scaffold1324	270771	TT	AA	1947004130
SNP_P4_158734_270772	NW_004516558.1	Scaffold1324	270772	GG	CC	1947004131
SNP_P4_158735_270778	NW_004516558.1	Scaffold1324	270778	TT	CC	1947004132
SNP_P4_158737_270896	NW_004516558.1	Scaffold1324	270896	TT	CC	1947004133
SNP_P4_158738_271002	NW_004516558.1	Scaffold1324	271002	CC	TT	1947004134
SNP_P4_158739_271004	NW_004516558.1	Scaffold1324	271004	TT	CC	1947004135
SNP_P4_158740_271281	NW_004516558.1	Scaffold1324	271281	AA	GG	1947004136
SNP_P4_158741_271299	NW_004516558.1	Scaffold1324	271299	TT	GG	1947004137
SNP_P4_158742_271448	NW_004516558.1	Scaffold1324	271448	AA	TT	1947004138
SNP_P4_158743_271450	NW_004516558.1	Scaffold1324	271450	CC	TT	1947004139
SNP_P4_158744_271496	NW_004516558.1	Scaffold1324	271496	CC	GG	1947004140
SNP_P4_158745_271521	NW_004516558.1	Scaffold1324	271521	GG	TT	1947004141
SNP_P4_158746_271584	NW_004516558.1	Scaffold1324	271584	AA	GG	1947004142
SNP_P4_158747_271730	NW_004516558.1	Scaffold1324	271730	TT	CC	1947004144
SNP_P4_158748_271787	NW_004516558.1	Scaffold1324	271787	GG	AA	1947004146

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_158752_272168	NW_004516558.1	Scaffold1324	272168	CC	TT	1947004149
SNP_P4_158754_272246	NW_004516558.1	Scaffold1324	272246	GG	AA	1947004151
SNP_P4_158755_272252	NW_004516558.1	Scaffold1324	272252	TT	CC	1947004153
SNP_P4_158756_272292	NW_004516558.1	Scaffold1324	272292	TT	CC	1947004155
SNP_P4_158757_272326	NW_004516558.1	Scaffold1324	272326	AA	CC	1947004157
SNP_P4_158758_272332	NW_004516558.1	Scaffold1324	272332	TT	CC	1947004159
SNP_P4_158759_272392	NW_004516558.1	Scaffold1324	272392	CC	TT	1947004161
SNP_P4_158760_272447	NW_004516558.1	Scaffold1324	272447	CC	AA	1947004163
SNP_P4_158761_272463	NW_004516558.1	Scaffold1324	272463	GG	AA	1947004165
SNP_P4_158763_272669	NW_004516558.1	Scaffold1324	272669	AA	TT	1947004167
SNP_P4_158764_272856	NW_004516558.1	Scaffold1324	272856	TT	CC	1947004168
SNP_P4_158765_272878	NW_004516558.1	Scaffold1324	272878	AA	CC	1947004170
SNP_P4_158766_272879	NW_004516558.1	Scaffold1324	272879	AA	CC	1947004172
SNP_P4_158767_272943	NW_004516558.1	Scaffold1324	272943	CC	TT	1947004174
SNP_P4_158768_272988	NW_004516558.1	Scaffold1324	272988	GG	AA	1947004176
SNP_P4_158769_272993	NW_004516558.1	Scaffold1324	272993	CC	AA	1947004178
SNP_P4_158770_273017	NW_004516558.1	Scaffold1324	273017	CC	AA	1947004180
SNP_P4_158771_273045	NW_004516558.1	Scaffold1324	273045	AA	CC	1947004182
SNP_P4_158772_273567	NW_004516558.1	Scaffold1324	273567	AA	GG	1947004184
SNP_P4_158773_273584	NW_004516558.1	Scaffold1324	273584	AA	TT	1947004186
SNP_P4_158774_273586	NW_004516558.1	Scaffold1324	273586	AA	TT	1947004188
SNP_P4_158775_273600	NW_004516558.1	Scaffold1324	273600	AA	CC	1947004190
SNP_P4_158776_273608	NW_004516558.1	Scaffold1324	273608	AA	GG	1947004192
SNP_P4_158777_273650	NW_004516558.1	Scaffold1324	273650	GG	CC	1947004194
SNP_P4_158778_273763	NW_004516558.1	Scaffold1324	273763	CC	TT	1947004196
SNP_P4_158779_273790	NW_004516558.1	Scaffold1324	273790	CC	TT	1947004198
SNP_P4_158780_273841	NW_004516558.1	Scaffold1324	273841	GG	AA	1947004199
SNP_P4_158781_273865	NW_004516558.1	Scaffold1324	273865	AA	CC	1947004201
SNP_P4_158782_273897	NW_004516558.1	Scaffold1324	273897	GG	CC	1947004203
SNP_P4_158783_273903	NW_004516558.1	Scaffold1324	273903	TT	CC	1947004205
SNP_P4_158784_273911	NW_004516558.1	Scaffold1324	273911	AA	GG	1947004207
SNP_P4_158785_273946	NW_004516558.1	Scaffold1324	273946	CC	GG	1947004209
SNP_P4_158786_273967	NW_004516558.1	Scaffold1324	273967	CC	AA	1947004211
SNP_P4_158787_273970	NW_004516558.1	Scaffold1324	273970	GG	AA	1947004213
SNP_P4_158788_273991	NW_004516558.1	Scaffold1324	273991	AA	GG	1947004215
SNP_P4_158789_274718	NW_004516558.1	Scaffold1324	274718	CC	TT	1947004217
SNP_P4_158790_274757	NW_004516558.1	Scaffold1324	274757	GG	AA	1947004219
SNP_P4_158791_275824	NW_004516558.1	Scaffold1324	275824	GG	TT	1947004220
SNP_P4_158792_278413	NW_004516558.1	Scaffold1324	278413	TT	CC	1947004222
SNP_P4_158793_278417	NW_004516558.1	Scaffold1324	278417	TT	GG	1947004224
SNP_P4_158794_279326	NW_004516558.1	Scaffold1324	279326	CC	TT	1947004226

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_158797_321517	NW_004516558.1	Scaffold1324	321517	GG	AA	1947004230
SNP_P4_158798_321882	NW_004516558.1	Scaffold1324	321882	CC	GG	1947004232
SNP_P4_158799_343744	NW_004516558.1	Scaffold1324	343744	AA	TT	1947004234
SNP_P4_158800_362478	NW_004516558.1	Scaffold1324	362478	AA	GG	1947004236
SNP_P4_158801_362615	NW_004516558.1	Scaffold1324	362615	CC	AA	1947004238
SNP_P4_158802_362744	NW_004516558.1	Scaffold1324	362744	CC	GG	1947004240
SNP_P4_158803_362862	NW_004516558.1	Scaffold1324	362862	AA	GG	1947004242
SNP_P4_158804_362889	NW_004516558.1	Scaffold1324	362889	GG	CC	1947004244
SNP_P4_158805_362890	NW_004516558.1	Scaffold1324	362890	GG	TT	1947004246
SNP_P4_158806_362912	NW_004516558.1	Scaffold1324	362912	CC	GG	1947004248
SNP_P4_158807_362925	NW_004516558.1	Scaffold1324	362925	AA	GG	1947004250
SNP_P4_158808_362961	NW_004516558.1	Scaffold1324	362961	TT	CC	1947004251
SNP_P4_158809_362967	NW_004516558.1	Scaffold1324	362967	GG	AA	1947004253
SNP_P4_158810_401165	NW_004516558.1	Scaffold1324	401165	GG	AA	1947004255
SNP_P4_158812_476471	NW_004516558.1	Scaffold1324	476471	AA	GG	1947004257
SNP_P4_158813_476476	NW_004516558.1	Scaffold1324	476476	AA	GG	1947004259
SNP_P4_158814_476735	NW_004516558.1	Scaffold1324	476735	AA	GG	1947004261
SNP_P4_158815_476777	NW_004516558.1	Scaffold1324	476777	AA	TT	1947004263
SNP_P4_158816_477097	NW_004516558.1	Scaffold1324	477097	TT	GG	1947004265
SNP_P4_158817_485832	NW_004516558.1	Scaffold1324	485832	CC	GG	1947004267
SNP_P4_158818_495758	NW_004516558.1	Scaffold1324	495758	GG	AA	1947004269
SNP_P4_158819_505106	NW_004516558.1	Scaffold1324	505106	CC	AA	1947004271
SNP_P4_158820_506539	NW_004516558.1	Scaffold1324	506539	AA	GG	1947004273
SNP_P4_158821_514259	NW_004516558.1	Scaffold1324	514259	TT	CC	1947004275
SNP_P4_158822_514268	NW_004516558.1	Scaffold1324	514268	GG	AA	1947004277
SNP_P4_158823_514269	NW_004516558.1	Scaffold1324	514269	AA	GG	1947004279
SNP_P4_158824_514344	NW_004516558.1	Scaffold1324	514344	TT	CC	1947004281
SNP_P4_158825_514709	NW_004516558.1	Scaffold1324	514709	TT	GG	1947004283
SNP_P4_158827_519598	NW_004516558.1	Scaffold1324	519598	AA	TT	1947004285
SNP_P4_158829_524722	NW_004516558.1	Scaffold1324	524722	TT	AA	1947004287
SNP_P4_158830_538945	NW_004516558.1	Scaffold1324	538945	TT	CC	1947004289
SNP_P4_158831_538958	NW_004516558.1	Scaffold1324	538958	CC	AA	1947004291
SNP_P4_158832_539215	NW_004516558.1	Scaffold1324	539215	CC	TT	1947004293
SNP_P4_158833_543545	NW_004516558.1	Scaffold1324	543545	GG	AA	1947004295
SNP_P4_158834_571453	NW_004516558.1	Scaffold1324	571453	AA	CC	1947004297
SNP_P4_158835_576946	NW_004516558.1	Scaffold1324	576946	TT	GG	1947004299
SNP_P4_158837_630409	NW_004516558.1	Scaffold1324	630409	AA	GG	1947004301
SNP_P4_158838_630416	NW_004516558.1	Scaffold1324	630416	AA	GG	1947004303
SNP_P4_158839_630435	NW_004516558.1	Scaffold1324	630435	TT	GG	1947004305
SNP_P4_158840_630494	NW_004516558.1	Scaffold1324	630494	AA	GG	1947004307
SNP_P4_158841_632978	NW_004516558.1	Scaffold1324	632978	TT	CC	1947004309

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_158843_633286	NW_004516558.1	Scaffold1324	633286	GG	CC	1947004313
SNP_P4_158844_642296	NW_004516558.1	Scaffold1324	642296	CC	GG	1947004315
SNP_P4_158845_642345	NW_004516558.1	Scaffold1324	642345	CC	TT	1947004317
SNP_P4_158847_642644	NW_004516558.1	Scaffold1324	642644	AA	GG	1947004319
SNP_P4_158848_642696	NW_004516558.1	Scaffold1324	642696	GG	TT	1947004321
SNP_P4_158850_642755	NW_004516558.1	Scaffold1324	642755	AA	GG	1947004323
SNP_P4_158851_642827	NW_004516558.1	Scaffold1324	642827	TT	CC	1947004325
SNP_P4_158854_699298	NW_004516558.1	Scaffold1324	699298	CC	TT	1947004327
SNP_P4_158856_726650	NW_004516558.1	Scaffold1324	726650	CC	TT	1947004329
SNP_P4_158858_1554	NW_004516560.1	Scaffold1327	1554	GG	TT	1947004331
SNP_P4_158859_1964	NW_004516560.1	Scaffold1327	1964	TT	AA	1947004333
SNP_P4_158860_25333	NW_004516560.1	Scaffold1327	25333	GG	CC	1947004335
SNP_P4_158861_31256	NW_004516560.1	Scaffold1327	31256	AA	CC	1947004337
SNP_P4_158862_32232	NW_004516560.1	Scaffold1327	32232	GG	AA	1947004339
SNP_P4_158863_32324	NW_004516560.1	Scaffold1327	32324	GG	AA	1947004341
SNP_P4_158864_32862	NW_004516560.1	Scaffold1327	32862	TT	CC	1947004343
SNP_P4_158865_33415	NW_004516560.1	Scaffold1327	33415	CC	AA	1947004345
SNP_P4_158866_33422	NW_004516560.1	Scaffold1327	33422	GG	TT	1947004347
SNP_P4_158867_33438	NW_004516560.1	Scaffold1327	33438	TT	CC	1947004350
SNP_P4_158868_33443	NW_004516560.1	Scaffold1327	33443	CC	AA	1947004352
SNP_P4_158869_33455	NW_004516560.1	Scaffold1327	33455	TT	CC	1947004354
SNP_P4_158870_33560	NW_004516560.1	Scaffold1327	33560	GG	TT	1947004356
SNP_P4_158871_39870	NW_004516560.1	Scaffold1327	39870	TT	CC	1947004358
SNP_P4_158872_39905	NW_004516560.1	Scaffold1327	39905	GG	AA	1947004360
SNP_P4_158873_40100	NW_004516560.1	Scaffold1327	40100	TT	GG	1947004362
SNP_P4_158874_40130	NW_004516560.1	Scaffold1327	40130	TT	GG	1947004364
SNP_P4_158875_40141	NW_004516560.1	Scaffold1327	40141	CC	TT	1947004366
SNP_P4_158876_43222	NW_004516560.1	Scaffold1327	43222	AA	CC	1947004368
SNP_P4_158877_43275	NW_004516560.1	Scaffold1327	43275	TT	CC	1947004370
SNP_P4_158878_50241	NW_004516560.1	Scaffold1327	50241	TT	CC	1947004372
SNP_P4_158879_51093	NW_004516560.1	Scaffold1327	51093	GG	AA	1947004374
SNP_P4_158880_54149	NW_004516560.1	Scaffold1327	54149	AA	GG	1947004376
SNP_P4_158881_54201	NW_004516560.1	Scaffold1327	54201	CC	TT	1947004378
SNP_P4_158882_54279	NW_004516560.1	Scaffold1327	54279	AA	CC	1947004380
SNP_P4_158883_54431	NW_004516560.1	Scaffold1327	54431	CC	GG	1947004382
SNP_P4_158884_54438	NW_004516560.1	Scaffold1327	54438	GG	TT	1947004384
SNP_P4_158885_54538	NW_004516560.1	Scaffold1327	54538	AA	GG	1947004386
SNP_P4_158886_59457	NW_004516560.1	Scaffold1327	59457	AA	CC	1947004388
SNP_P4_158887_74148	NW_004516560.1	Scaffold1327	74148	AA	TT	1947004390
SNP_P4_158889_75532	NW_004516560.1	Scaffold1327	75532	GG	TT	1947004392
SNP_P4_158890_85648	NW_004516560.1	Scaffold1327	85648	TT	CC	1947004394

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_158893_92446	NW_004516560.1	Scaffold1327	92446	AA	CC	1947004400
SNP_P4_158894_92490	NW_004516560.1	Scaffold1327	92490	GG	CC	1947004402
SNP_P4_158895_92498	NW_004516560.1	Scaffold1327	92498	AA	TT	1947004404
SNP_P4_158896_92584	NW_004516560.1	Scaffold1327	92584	TT	CC	1947004406
SNP_P4_158897_94000	NW_004516560.1	Scaffold1327	94000	CC	GG	1947004408
SNP_P4_158898_95033	NW_004516560.1	Scaffold1327	95033	GG	AA	1947004410
SNP_P4_158899_95744	NW_004516560.1	Scaffold1327	95744	TT	CC	1947004412
SNP_P4_158900_95836	NW_004516560.1	Scaffold1327	95836	AA	GG	1947004414
SNP_P4_158901_106610	NW_004516560.1	Scaffold1327	106610	AA	GG	1947004416
SNP_P4_158902_107759	NW_004516560.1	Scaffold1327	107759	AA	GG	1947004418
SNP_P4_158903_107835	NW_004516560.1	Scaffold1327	107835	GG	CC	1947004420
SNP_P4_158904_114508	NW_004516560.1	Scaffold1327	114508	GG	TT	1947004422
SNP_P4_158905_114518	NW_004516560.1	Scaffold1327	114518	AA	CC	1947004424
SNP_P4_158906_114521	NW_004516560.1	Scaffold1327	114521	AA	CC	1947004427
SNP_P4_158907_114524	NW_004516560.1	Scaffold1327	114524	GG	TT	1947004429
SNP_P4_158908_114525	NW_004516560.1	Scaffold1327	114525	GG	AA	1947004431
SNP_P4_158909_114532	NW_004516560.1	Scaffold1327	114532	GG	AA	1947004433
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SNP_P4_158911_114569	NW_004516560.1	Scaffold1327	114569	GG	AA	1947004437
SNP_P4_158912_114587	NW_004516560.1	Scaffold1327	114587	GG	AA	1947004439
SNP_P4_158913_114652	NW_004516560.1	Scaffold1327	114652	AA	GG	1947004441
SNP_P4_158914_114738	NW_004516560.1	Scaffold1327	114738	CC	TT	1947004443
SNP_P4_158915_114794	NW_004516560.1	Scaffold1327	114794	GG	AA	1947004445
SNP_P4_158916_114804	NW_004516560.1	Scaffold1327	114804	TT	CC	1947004447
SNP_P4_158917_114834	NW_004516560.1	Scaffold1327	114834	TT	CC	1947004449
SNP_P4_158918_114863	NW_004516560.1	Scaffold1327	114863	TT	CC	1947004451
SNP_P4_158919_118802	NW_004516560.1	Scaffold1327	118802	GG	TT	1947004453
SNP_P4_158920_120201	NW_004516560.1	Scaffold1327	120201	GG	AA	1947004455
SNP_P4_158921_122913	NW_004516560.1	Scaffold1327	122913	GG	CC	1947004457
SNP_P4_158922_123115	NW_004516560.1	Scaffold1327	123115	AA	TT	1947004459
SNP_P4_158923_123159	NW_004516560.1	Scaffold1327	123159	AA	TT	1947004461
SNP_P4_158924_11458	NW_004516561.1	Scaffold1328	11458	CC	AA	1947004463
SNP_P4_158925_11761	NW_004516561.1	Scaffold1328	11761	CC	TT	1947004466
SNP_P4_158927_20270	NW_004516561.1	Scaffold1328	20270	AA	GG	1947004468
SNP_P4_158928_26375	NW_004516561.1	Scaffold1328	26375	AA	TT	1947004470
SNP_P4_158929_26716	NW_004516561.1	Scaffold1328	26716	GG	AA	1947004472
SNP_P4_158930_26726	NW_004516561.1	Scaffold1328	26726	CC	AA	1947004474
SNP_P4_158931_31842	NW_004516561.1	Scaffold1328	31842	GG	AA	1947004476
SNP_P4_158932_32077	NW_004516561.1	Scaffold1328	32077	GG	AA	1947004478
SNP_P4_158933_32939	NW_004516561.1	Scaffold1328	32939	AA	GG	1947004480

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_158935_38871	NW_004516561.1	Scaffold1328	38871	TT	CC	1947004484
SNP_P4_158936_41159	NW_004516561.1	Scaffold1328	41159	AA	GG	1947004486
SNP_P4_158937_41164	NW_004516561.1	Scaffold1328	41164	AA	GG	1947004488
SNP_P4_158938_53405	NW_004516561.1	Scaffold1328	53405	AA	TT	1947004490
SNP_P4_158939_53444	NW_004516561.1	Scaffold1328	53444	TT	AA	1947004492
SNP_P4_158940_54139	NW_004516561.1	Scaffold1328	54139	GG	TT	1947004494
SNP_P4_158941_54183	NW_004516561.1	Scaffold1328	54183	GG	TT	1947004496
SNP_P4_158942_54622	NW_004516561.1	Scaffold1328	54622	AA	GG	1947004498
SNP_P4_158944_56521	NW_004516561.1	Scaffold1328	56521	TT	AA	1947004500
SNP_P4_158945_59578	NW_004516561.1	Scaffold1328	59578	TT	CC	1947004502
SNP_P4_158946_62402	NW_004516561.1	Scaffold1328	62402	TT	CC	1947004504
SNP_P4_158947_63265	NW_004516561.1	Scaffold1328	63265	AA	GG	1947004506
SNP_P4_158948_63337	NW_004516561.1	Scaffold1328	63337	AA	GG	1947004508
SNP_P4_158949_63440	NW_004516561.1	Scaffold1328	63440	TT	CC	1947004510
SNP_P4_158950_63543	NW_004516561.1	Scaffold1328	63543	TT	CC	1947004512
SNP_P4_158951_63606	NW_004516561.1	Scaffold1328	63606	CC	AA	1947004514
SNP_P4_158952_63648	NW_004516561.1	Scaffold1328	63648	CC	GG	1947004516
SNP_P4_158953_63679	NW_004516561.1	Scaffold1328	63679	AA	CC	1947004518
SNP_P4_158954_63699	NW_004516561.1	Scaffold1328	63699	AA	CC	1947004520
SNP_P4_158955_63700	NW_004516561.1	Scaffold1328	63700	TT	CC	1947004522
SNP_P4_158956_63857	NW_004516561.1	Scaffold1328	63857	AA	GG	1947004524
SNP_P4_158957_64265	NW_004516561.1	Scaffold1328	64265	GG	AA	1947004526
SNP_P4_158958_70772	NW_004516561.1	Scaffold1328	70772	CC	TT	1947004528
SNP_P4_158959_71535	NW_004516561.1	Scaffold1328	71535	AA	GG	1947004530
SNP_P4_158960_71571	NW_004516561.1	Scaffold1328	71571	CC	TT	1947004532
SNP_P4_158961_71735	NW_004516561.1	Scaffold1328	71735	TT	AA	1947004534
SNP_P4_158963_72565	NW_004516561.1	Scaffold1328	72565	AA	GG	1947004536
SNP_P4_158964_72573	NW_004516561.1	Scaffold1328	72573	GG	TT	1947004538
SNP_P4_158965_72592	NW_004516561.1	Scaffold1328	72592	TT	CC	1947004540
SNP_P4_158966_72594	NW_004516561.1	Scaffold1328	72594	TT	GG	1947004542
SNP_P4_158967_75444	NW_004516561.1	Scaffold1328	75444	GG	CC	1947004544
SNP_P4_158968_76344	NW_004516561.1	Scaffold1328	76344	GG	TT	1947004546
SNP_P4_158969_76982	NW_004516561.1	Scaffold1328	76982	AA	GG	1947004548
SNP_P4_158970_77129	NW_004516561.1	Scaffold1328	77129	GG	TT	1947004550
SNP_P4_158972_77323	NW_004516561.1	Scaffold1328	77323	GG	TT	1947004552
SNP_P4_158973_79806	NW_004516561.1	Scaffold1328	79806	GG	AA	1947004554
SNP_P4_158974_79807	NW_004516561.1	Scaffold1328	79807	AA	TT	1947004556
SNP_P4_158975_351	NW_004516562.1	Scaffold1329	351	GG	TT	1947004558
SNP_P4_158976_1692	NW_004516562.1	Scaffold1329	1692	AA	GG	1947004560
SNP_P4_158977_15870	NW_004516562.1	Scaffold1329	15870	CC	AA	1947004562
SNP_P4_158978_16258	NW_004516562.1	Scaffold1329	16258	TT	CC	1947004564

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_158980_16842	NW_004516562.1	Scaffold1329	16842	TT	CC	1947004568
SNP_P4_158981_16850	NW_004516562.1	Scaffold1329	16850	GG	AA	1947004570
SNP_P4_158982_19642	NW_004516562.1	Scaffold1329	19642	CC	AA	1947004572
SNP_P4_158983_32978	NW_004516562.1	Scaffold1329	32978	CC	TT	1947004574
SNP_P4_158984_36240	NW_004516562.1	Scaffold1329	36240	GG	AA	1947004576
SNP_P4_158985_1185	NW_004516563.1	Scaffold1330	1185	AA	TT	1947004578
SNP_P4_158986_1251	NW_004516563.1	Scaffold1330	1251	TT	AA	1947004580
SNP_P4_158987_16141	NW_004516563.1	Scaffold1330	16141	AA	CC	1947004582
SNP_P4_158988_16406	NW_004516563.1	Scaffold1330	16406	AA	TT	1947004584
SNP_P4_158989_16530	NW_004516563.1	Scaffold1330	16530	GG	AA	1947004587
SNP_P4_158990_21062	NW_004516563.1	Scaffold1330	21062	TT	CC	1947004589
SNP_P4_158991_21092	NW_004516563.1	Scaffold1330	21092	CC	TT	1947004591
SNP_P4_158992_40847	NW_004516563.1	Scaffold1330	40847	AA	GG	1947004593
SNP_P4_158993_40848	NW_004516563.1	Scaffold1330	40848	TT	AA	1947004595
SNP_P4_158994_458	NW_004516564.1	Scaffold1331	458	CC	TT	1947004596
SNP_P4_158995_629	NW_004516564.1	Scaffold1331	629	CC	TT	1947004598
SNP_P4_158996_632	NW_004516564.1	Scaffold1331	632	AA	GG	1947004600
SNP_P4_158997_636	NW_004516564.1	Scaffold1331	636	TT	GG	1947004602
SNP_P4_158998_23505	NW_004516564.1	Scaffold1331	23505	CC	AA	1947004604
SNP_P4_158999_23510	NW_004516564.1	Scaffold1331	23510	AA	CC	1947004606
SNP_P4_159000_23588	NW_004516564.1	Scaffold1331	23588	AA	TT	1947004608
SNP_P4_159001_23810	NW_004516564.1	Scaffold1331	23810	GG	AA	1947004610
SNP_P4_159002_23813	NW_004516564.1	Scaffold1331	23813	TT	CC	1947004612
SNP_P4_159003_23855	NW_004516564.1	Scaffold1331	23855	CC	TT	1947004614
SNP_P4_159004_23869	NW_004516564.1	Scaffold1331	23869	GG	AA	1947004616
SNP_P4_159005_23870	NW_004516564.1	Scaffold1331	23870	TT	CC	1947004618
SNP_P4_159007_24511	NW_004516564.1	Scaffold1331	24511	AA	TT	1947004620
SNP_P4_159009_32675	NW_004516564.1	Scaffold1331	32675	TT	CC	1947004622
SNP_P4_159010_33625	NW_004516564.1	Scaffold1331	33625	TT	CC	1947004624
SNP_P4_159011_33926	NW_004516564.1	Scaffold1331	33926	TT	AA	1947004626
SNP_P4_159012_38314	NW_004516564.1	Scaffold1331	38314	TT	AA	1947004628
SNP_P4_159013_39406	NW_004516564.1	Scaffold1331	39406	AA	TT	1947004630
SNP_P4_159015_41279	NW_004516564.1	Scaffold1331	41279	AA	CC	1947004632
SNP_P4_159016_41460	NW_004516564.1	Scaffold1331	41460	CC	AA	1947004634
SNP_P4_159017_41462	NW_004516564.1	Scaffold1331	41462	AA	CC	1947004636
SNP_P4_159018_41482	NW_004516564.1	Scaffold1331	41482	CC	AA	1947004638
SNP_P4_159019_50287	NW_004516564.1	Scaffold1331	50287	GG	AA	1947004640
SNP_P4_159020_50313	NW_004516564.1	Scaffold1331	50313	CC	TT	1947004642
SNP_P4_159021_50358	NW_004516564.1	Scaffold1331	50358	CC	TT	1947004644
SNP_P4_159022_50359	NW_004516564.1	Scaffold1331	50359	GG	TT	1947004646
SNP_P4_159023_50373	NW_004516564.1	Scaffold1331	50373	CC	TT	1947004648

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_159026_50721	NW_004516564.1	Scaffold1331	50721	TT	AA	1947004652
SNP_P4_159029_51802	NW_004516564.1	Scaffold1331	51802	TT	CC	1947004654
SNP_P4_159030_53217	NW_004516564.1	Scaffold1331	53217	AA	TT	1947004656
SNP_P4_159031_53218	NW_004516564.1	Scaffold1331	53218	AA	TT	1947004658
SNP_P4_159033_56053	NW_004516564.1	Scaffold1331	56053	GG	AA	1947004660
SNP_P4_159034_57039	NW_004516564.1	Scaffold1331	57039	AA	CC	1947004662
SNP_P4_159035_57637	NW_004516564.1	Scaffold1331	57637	TT	AA	1947004664
SNP_P4_159036_59183	NW_004516564.1	Scaffold1331	59183	GG	AA	1947004666
SNP_P4_159037_59398	NW_004516564.1	Scaffold1331	59398	GG	AA	1947004668
SNP_P4_159038_59430	NW_004516564.1	Scaffold1331	59430	CC	TT	1947004670
SNP_P4_159039_59431	NW_004516564.1	Scaffold1331	59431	CC	TT	1947004672
SNP_P4_159040_59448	NW_004516564.1	Scaffold1331	59448	GG	TT	1947004674
SNP_P4_159041_59454	NW_004516564.1	Scaffold1331	59454	CC	TT	1947004676
SNP_P4_159042_59455	NW_004516564.1	Scaffold1331	59455	AA	GG	1947004678
SNP_P4_159043_59716	NW_004516564.1	Scaffold1331	59716	CC	TT	1947004680
SNP_P4_159044_61674	NW_004516564.1	Scaffold1331	61674	CC	GG	1947004682
SNP_P4_159045_62316	NW_004516564.1	Scaffold1331	62316	TT	CC	1947004684
SNP_P4_159046_62626	NW_004516564.1	Scaffold1331	62626	GG	AA	1947004686
SNP_P4_159047_63228	NW_004516564.1	Scaffold1331	63228	AA	TT	1947004688
SNP_P4_159049_64693	NW_004516564.1	Scaffold1331	64693	TT	CC	1947004690
SNP_P4_159050_64817	NW_004516564.1	Scaffold1331	64817	AA	GG	1947004692
SNP_P4_159051_75330	NW_004516564.1	Scaffold1331	75330	TT	AA	1947004694
SNP_P4_159052_75654	NW_004516564.1	Scaffold1331	75654	AA	TT	1947004696
SNP_P4_159054_82730	NW_004516564.1	Scaffold1331	82730	AA	TT	1947004698
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SNP_P4_159056_85137	NW_004516564.1	Scaffold1331	85137	CC	TT	1947004702
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SNP_P4_159059_245	NW_004516565.1	Scaffold1332	245	AA	GG	1947004708
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SNP_P4_159062_270	NW_004516565.1	Scaffold1332	270	AA	TT	1947004714
SNP_P4_159064_386	NW_004516565.1	Scaffold1332	386	AA	GG	1947004716
SNP_P4_159065_402	NW_004516565.1	Scaffold1332	402	CC	TT	1947004718
SNP_P4_159066_423	NW_004516565.1	Scaffold1332	423	CC	TT	1947004720
SNP_P4_159068_536	NW_004516565.1	Scaffold1332	536	GG	TT	1947004722
SNP_P4_159069_590	NW_004516565.1	Scaffold1332	590	CC	TT	1947004724
SNP_P4_159070_610	NW_004516565.1	Scaffold1332	610	GG	AA	1947004726
SNP_P4_159071_613	NW_004516565.1	Scaffold1332	613	TT	CC	1947004728
SNP_P4_159072_642	NW_004516565.1	Scaffold1332	642	TT	AA	1947004730
SNP_P4_159073_648	NW_004516565.1	Scaffold1332	648	GG	AA	1947004732

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_159077_4554	NW_004516565.1	Scaffold1332	4554	TT	GG	1947004736
SNP_P4_159078_4555	NW_004516565.1	Scaffold1332	4555	AA	CC	1947004738
SNP_P4_159079_4894	NW_004516565.1	Scaffold1332	4894	GG	CC	1947004740
SNP_P4_159080_5571	NW_004516565.1	Scaffold1332	5571	TT	AA	1947004742
SNP_P4_159081_5596	NW_004516565.1	Scaffold1332	5596	CC	TT	1947004743
SNP_P4_159082_5661	NW_004516565.1	Scaffold1332	5661	GG	TT	1947004745
SNP_P4_159083_5665	NW_004516565.1	Scaffold1332	5665	GG	TT	1947004747
SNP_P4_159084_5926	NW_004516565.1	Scaffold1332	5926	TT	AA	1947004749
SNP_P4_159085_5952	NW_004516565.1	Scaffold1332	5952	CC	TT	1947004751
SNP_P4_159086_6009	NW_004516565.1	Scaffold1332	6009	CC	AA	1947004753
SNP_P4_159087_6029	NW_004516565.1	Scaffold1332	6029	GG	AA	1947004755
SNP_P4_159088_6058	NW_004516565.1	Scaffold1332	6058	GG	TT	1947004757
SNP_P4_159089_6072	NW_004516565.1	Scaffold1332	6072	CC	AA	1947004759
SNP_P4_159090_6244	NW_004516565.1	Scaffold1332	6244	AA	GG	1947004761
SNP_P4_159091_6251	NW_004516565.1	Scaffold1332	6251	AA	TT	1947004763
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SNP_P4_159093_7224	NW_004516565.1	Scaffold1332	7224	CC	TT	1947004768
SNP_P4_159094_7282	NW_004516565.1	Scaffold1332	7282	CC	AA	1947004770
SNP_P4_159095_7325	NW_004516565.1	Scaffold1332	7325	CC	AA	1947004771
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SNP_P4_159100_8403	NW_004516565.1	Scaffold1332	8403	CC	TT	1947004781
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SNP_P4_159102_8453	NW_004516565.1	Scaffold1332	8453	AA	TT	1947004785
SNP_P4_159103_8454	NW_004516565.1	Scaffold1332	8454	AA	TT	1947004787
SNP_P4_159105_8501	NW_004516565.1	Scaffold1332	8501	CC	AA	1947004789
SNP_P4_159106_8681	NW_004516565.1	Scaffold1332	8681	AA	GG	1947004791
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SNP_P4_159109_8844	NW_004516565.1	Scaffold1332	8844	AA	GG	1947004797
SNP_P4_159110_8883	NW_004516565.1	Scaffold1332	8883	TT	CC	1947004799
SNP_P4_159111_8899	NW_004516565.1	Scaffold1332	8899	GG	AA	1947004801
SNP_P4_159112_9066	NW_004516565.1	Scaffold1332	9066	CC	TT	1947004803
SNP_P4_159113_9091	NW_004516565.1	Scaffold1332	9091	CC	GG	1947004805
SNP_P4_159114_9110	NW_004516565.1	Scaffold1332	9110	CC	TT	1947004807
SNP_P4_159115_9190	NW_004516565.1	Scaffold1332	9190	GG	TT	1947004809
SNP_P4_159116_9355	NW_004516565.1	Scaffold1332	9355	TT	GG	1947004811
SNP_P4_159117_9384	NW_004516565.1	Scaffold1332	9384	GG	TT	1947004813
SNP_P4_159118_9416	NW_004516565.1	Scaffold1332	9416	GG	TT	1947004814

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_159120_9624	NW_004516565.1	Scaffold1332	9624	TT	AA	1947004818
SNP_P4_159121_9651	NW_004516565.1	Scaffold1332	9651	GG	AA	1947004820
SNP_P4_159122_9684	NW_004516565.1	Scaffold1332	9684	GG	CC	1947004822
SNP_P4_159123_9953	NW_004516565.1	Scaffold1332	9953	AA	GG	1947004824
SNP_P4_159124_10138	NW_004516565.1	Scaffold1332	10138	AA	GG	1947004826
SNP_P4_159125_11000	NW_004516565.1	Scaffold1332	11000	GG	AA	1947004828
SNP_P4_159126_11035	NW_004516565.1	Scaffold1332	11035	TT	GG	1947004830
SNP_P4_159127_11260	NW_004516565.1	Scaffold1332	11260	GG	TT	1947004832
SNP_P4_159128_11285	NW_004516565.1	Scaffold1332	11285	GG	CC	1947004834
SNP_P4_159129_11597	NW_004516565.1	Scaffold1332	11597	CC	AA	1947004836
SNP_P4_159130_22259	NW_004516566.1	Scaffold1335	22259	TT	AA	1947004838
SNP_P4_159131_22267	NW_004516566.1	Scaffold1335	22267	AA	GG	1947004840
SNP_P4_159132_22268	NW_004516566.1	Scaffold1335	22268	AA	TT	1947004842
SNP_P4_159133_22271	NW_004516566.1	Scaffold1335	22271	TT	CC	1947004844
SNP_P4_159134_22279	NW_004516566.1	Scaffold1335	22279	TT	CC	1947004846
SNP_P4_159135_22731	NW_004516566.1	Scaffold1335	22731	AA	GG	1947004848
SNP_P4_159136_22745	NW_004516566.1	Scaffold1335	22745	TT	CC	1947004849
SNP_P4_159137_22746	NW_004516566.1	Scaffold1335	22746	TT	AA	1947004851
SNP_P4_159138_22754	NW_004516566.1	Scaffold1335	22754	AA	GG	1947004853
SNP_P4_159139_22791	NW_004516566.1	Scaffold1335	22791	TT	GG	1947004855
SNP_P4_159140_27304	NW_004516566.1	Scaffold1335	27304	AA	GG	1947004857
SNP_P4_159141_27337	NW_004516566.1	Scaffold1335	27337	AA	GG	1947004859
SNP_P4_159142_27367	NW_004516566.1	Scaffold1335	27367	AA	GG	1947004861
SNP_P4_159143_32032	NW_004516566.1	Scaffold1335	32032	CC	GG	1947004863
SNP_P4_159144_32387	NW_004516566.1	Scaffold1335	32387	AA	GG	1947004865
SNP_P4_159145_32432	NW_004516566.1	Scaffold1335	32432	GG	AA	1947004866
SNP_P4_159146_33328	NW_004516566.1	Scaffold1335	33328	TT	AA	1947004868
SNP_P4_159147_33352	NW_004516566.1	Scaffold1335	33352	TT	GG	1947004870
SNP_P4_159148_33382	NW_004516566.1	Scaffold1335	33382	AA	GG	1947004872
SNP_P4_159149_33392	NW_004516566.1	Scaffold1335	33392	GG	AA	1947004874
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SNP_P4_159152_33452	NW_004516566.1	Scaffold1335	33452	AA	GG	1947004880
SNP_P4_159153_33630	NW_004516566.1	Scaffold1335	33630	GG	AA	1947004882
SNP_P4_159154_33682	NW_004516566.1	Scaffold1335	33682	TT	AA	1947004884
SNP_P4_159155_33716	NW_004516566.1	Scaffold1335	33716	GG	AA	1947004886
SNP_P4_159156_33727	NW_004516566.1	Scaffold1335	33727	GG	TT	1947004888
SNP_P4_159157_33732	NW_004516566.1	Scaffold1335	33732	AA	GG	1947004890
SNP_P4_159158_33733	NW_004516566.1	Scaffold1335	33733	GG	AA	1947004892
SNP_P4_159159_33792	NW_004516566.1	Scaffold1335	33792	AA	TT	1947004894
SNP_P4_159160_33801	NW_004516566.1	Scaffold1335	33801	GG	CC	1947004896

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_159161_33857	NW_004516566.1	Scaffold1335	33857	AA	GG	1947004898
SNP_P4_159162_33860	NW_004516566.1	Scaffold1335	33860	GG	AA	1947004899
SNP_P4_159163_45023	NW_004516566.1	Scaffold1335	45023	GG	CC	1947004901
SNP_P4_159164_45125	NW_004516566.1	Scaffold1335	45125	AA	CC	1947004903
SNP_P4_159166_45410	NW_004516566.1	Scaffold1335	45410	AA	TT	1947004905
SNP_P4_159167_45452	NW_004516566.1	Scaffold1335	45452	AA	GG	1947004907
SNP_P4_159168_45473	NW_004516566.1	Scaffold1335	45473	AA	GG	1947004909
SNP_P4_159169_45482	NW_004516566.1	Scaffold1335	45482	TT	CC	1947004911
SNP_P4_159170_45494	NW_004516566.1	Scaffold1335	45494	CC	TT	1947004913
SNP_P4_159171_45502	NW_004516566.1	Scaffold1335	45502	AA	GG	1947004915
SNP_P4_159172_45527	NW_004516566.1	Scaffold1335	45527	TT	CC	1947004917
SNP_P4_159173_45667	NW_004516566.1	Scaffold1335	45667	GG	AA	1947004919
SNP_P4_159174_45691	NW_004516566.1	Scaffold1335	45691	TT	CC	1947004921
SNP_P4_159175_45791	NW_004516566.1	Scaffold1335	45791	CC	TT	1947004923
SNP_P4_159176_45793	NW_004516566.1	Scaffold1335	45793	GG	CC	1947004925
SNP_P4_159177_45803	NW_004516566.1	Scaffold1335	45803	TT	AA	1947004927
SNP_P4_159178_45806	NW_004516566.1	Scaffold1335	45806	TT	AA	1947004929
SNP_P4_159179_45840	NW_004516566.1	Scaffold1335	45840	TT	CC	1947004931
SNP_P4_159180_45863	NW_004516566.1	Scaffold1335	45863	GG	AA	1947004933
SNP_P4_159181_45924	NW_004516566.1	Scaffold1335	45924	GG	AA	1947004935
SNP_P4_159182_45933	NW_004516566.1	Scaffold1335	45933	TT	GG	1947004937
SNP_P4_159183_45941	NW_004516566.1	Scaffold1335	45941	GG	AA	1947004939
SNP_P4_159185_46050	NW_004516566.1	Scaffold1335	46050	CC	TT	1947004941
SNP_P4_159186_46073	NW_004516566.1	Scaffold1335	46073	TT	AA	1947004943
SNP_P4_159187_46127	NW_004516566.1	Scaffold1335	46127	GG	AA	1947004945
SNP_P4_159188_46255	NW_004516566.1	Scaffold1335	46255	GG	AA	1947004947
SNP_P4_159190_46291	NW_004516566.1	Scaffold1335	46291	GG	AA	1947004949
SNP_P4_159191_46361	NW_004516566.1	Scaffold1335	46361	GG	TT	1947004951
SNP_P4_159192_46375	NW_004516566.1	Scaffold1335	46375	CC	TT	1947004952
SNP_P4_159193_46433	NW_004516566.1	Scaffold1335	46433	TT	CC	1947004954
SNP_P4_159194_46439	NW_004516566.1	Scaffold1335	46439	GG	TT	1947004956
SNP_P4_159195_46471	NW_004516566.1	Scaffold1335	46471	TT	CC	1947004958
SNP_P4_159196_2847	NW_004516567.1	Scaffold1337	2847	GG	AA	1947004960
SNP_P4_159198_40986	NW_004516567.1	Scaffold1337	40986	GG	AA	1947004962
SNP_P4_159199_41478	NW_004516567.1	Scaffold1337	41478	TT	GG	1947004964
SNP_P4_159200_41495	NW_004516567.1	Scaffold1337	41495	CC	TT	1947004966
SNP_P4_159201_43016	NW_004516567.1	Scaffold1337	43016	TT	CC	1947004968
SNP_P4_159202_43081	NW_004516567.1	Scaffold1337	43081	CC	AA	1947004970
SNP_P4_159203_45518	NW_004516567.1	Scaffold1337	45518	AA	GG	1947004972
SNP_P4_159205_69487	NW_004516567.1	Scaffold1337	69487	AA	CC	1947004974
SNP_P4_159206_1266	NW_004516569.1	Scaffold1339	1266	TT	AA	1947004976
SNP_P4_159207_1296	NW_004516569.1	Scaffold1339	1296	TT	GG	1947004978

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_159208_1301	NW_004516569.1	Scaffold1339	1301	GG	CC	1947004980
SNP_P4_159209_1555	NW_004516569.1	Scaffold1339	1555	AA	CC	1947004982
SNP_P4_159210_1689	NW_004516569.1	Scaffold1339	1689	TT	CC	1947004983
SNP_P4_159211_1882	NW_004516569.1	Scaffold1339	1882	CC	GG	1947004985
SNP_P4_159212_1883	NW_004516569.1	Scaffold1339	1883	TT	GG	1947004987
SNP_P4_159214_269	NW_004516570.1	Scaffold1342	269	GG	AA	1947004989
SNP_P4_159215_315	NW_004516570.1	Scaffold1342	315	CC	TT	1947004991
SNP_P4_159216_2996	NW_004516571.1	Scaffold1343	2996	CC	TT	1947004993
SNP_P4_159217_4666	NW_004516571.1	Scaffold1343	4666	CC	TT	1947004995
SNP_P4_159218_5490	NW_004516571.1	Scaffold1343	5490	GG	AA	1947004997
SNP_P4_159219_5539	NW_004516571.1	Scaffold1343	5539	GG	CC	1947004998
SNP_P4_159220_5560	NW_004516571.1	Scaffold1343	5560	GG	AA	1947005000
SNP_P4_159221_5673	NW_004516571.1	Scaffold1343	5673	GG	AA	1947005002
SNP_P4_159222_5796	NW_004516571.1	Scaffold1343	5796	CC	TT	1947005004
SNP_P4_159223_473	NW_004516572.1	Scaffold1344	473	CC	GG	1947005006
SNP_P4_159224_483	NW_004516572.1	Scaffold1344	483	CC	TT	1947005008
SNP_P4_159225_2075	NW_004516572.1	Scaffold1344	2075	GG	CC	1947005010
SNP_P4_159226_2575	NW_004516572.1	Scaffold1344	2575	TT	CC	1947005012
SNP_P4_159227_11963	NW_004516572.1	Scaffold1344	11963	GG	AA	1947005014
SNP_P4_159228_11982	NW_004516572.1	Scaffold1344	11982	GG	AA	1947005016
SNP_P4_159229_14219	NW_004516572.1	Scaffold1344	14219	TT	CC	1947005018
SNP_P4_159230_14605	NW_004516572.1	Scaffold1344	14605	TT	AA	1947005020
SNP_P4_159231_20708	NW_004516572.1	Scaffold1344	20708	GG	AA	1947005022
SNP_P4_159232_21040	NW_004516572.1	Scaffold1344	21040	AA	GG	1947005024
SNP_P4_159233_21110	NW_004516572.1	Scaffold1344	21110	CC	TT	1947005026
SNP_P4_159234_22170	NW_004516572.1	Scaffold1344	22170	TT	CC	1947005028
SNP_P4_159235_3269	NW_004516574.1	Scaffold1348_1	3269	AA	GG	1947005030
SNP_P4_159236_15326	NW_004516574.1	Scaffold1348_1	15326	CC	TT	1947005032
SNP_P4_159237_22206	NW_004516574.1	Scaffold1348_1	22206	TT	AA	1947005034
SNP_P4_159238_23268	NW_004516574.1	Scaffold1348_1	23268	CC	TT	1947005036
SNP_P4_159240_35494	NW_004516574.1	Scaffold1348_1	35494	CC	TT	1947005038
SNP_P4_159241_57067	NW_004516574.1	Scaffold1348_1	57067	AA	TT	1947005040
SNP_P4_159243_78363	NW_004516574.1	Scaffold1348_1	78363	CC	TT	1947005042
SNP_P4_159244_96711	NW_004516574.1	Scaffold1348_1	96711	CC	GG	1947005043
SNP_P4_159246_107326	NW_004516574.1	Scaffold1348_1	107326	GG	CC	1947005045
SNP_P4_159247_113340	NW_004516574.1	Scaffold1348_1	113340	GG	CC	1947005047
SNP_P4_159248_129870	NW_004516574.1	Scaffold1348_1	129870	GG	AA	1947005049
SNP_P4_159250_152776	NW_004516574.1	Scaffold1348_1	152776	TT	AA	1947005051
SNP_P4_159251_157443	NW_004516574.1	Scaffold1348_1	157443	TT	AA	1947005053
SNP_P4_159252_171740	NW_004516574.1	Scaffold1348_1	171740	AA	GG	1947005055
SNP_P4_159253_171791	NW_004516574.1	Scaffold1348_1	171791	AA	GG	1947005057
SNP_P4_159254_171810	NW_004516574.1	Scaffold1348_1	171810	GG	AA	1947005058

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_159256_171900	NW_004516574.1	Scaffold1348_1	171900	GG	AA	1947005062
SNP_P4_159257_171942	NW_004516574.1	Scaffold1348_1	171942	AA	GG	1947005064
SNP_P4_159258_172092	NW_004516574.1	Scaffold1348_1	172092	TT	CC	1947005066
SNP_P4_159259_172094	NW_004516574.1	Scaffold1348_1	172094	TT	CC	1947005068
SNP_P4_159260_172097	NW_004516574.1	Scaffold1348_1	172097	AA	TT	1947005070
SNP_P4_159261_172098	NW_004516574.1	Scaffold1348_1	172098	AA	TT	1947005072
SNP_P4_159262_172099	NW_004516574.1	Scaffold1348_1	172099	TT	AA	1947005074
SNP_P4_159263_172126	NW_004516574.1	Scaffold1348_1	172126	AA	GG	1947005075
SNP_P4_159264_172151	NW_004516574.1	Scaffold1348_1	172151	TT	AA	1947005077
SNP_P4_159265_172191	NW_004516574.1	Scaffold1348_1	172191	TT	CC	1947005079
SNP_P4_159266_172249	NW_004516574.1	Scaffold1348_1	172249	CC	AA	1947005081
SNP_P4_159267_172265	NW_004516574.1	Scaffold1348_1	172265	TT	GG	1947005083
SNP_P4_159268_172274	NW_004516574.1	Scaffold1348_1	172274	CC	TT	1947005085
SNP_P4_159269_172476	NW_004516574.1	Scaffold1348_1	172476	CC	TT	1947005087
SNP_P4_159270_172527	NW_004516574.1	Scaffold1348_1	172527	GG	AA	1947005089
SNP_P4_159271_189296	NW_004516574.1	Scaffold1348_1	189296	GG	AA	1947005091
SNP_P4_159272_190473	NW_004516574.1	Scaffold1348_1	190473	AA	GG	1947005093
SNP_P4_159273_194511	NW_004516574.1	Scaffold1348_1	194511	TT	AA	1947005095
SNP_P4_159274_194535	NW_004516574.1	Scaffold1348_1	194535	CC	TT	1947005096
SNP_P4_159275_194559	NW_004516574.1	Scaffold1348_1	194559	TT	GG	1947005098
SNP_P4_159276_194635	NW_004516574.1	Scaffold1348_1	194635	CC	AA	1947005100
SNP_P4_159277_194639	NW_004516574.1	Scaffold1348_1	194639	CC	GG	1947005102
SNP_P4_159278_194658	NW_004516574.1	Scaffold1348_1	194658	GG	AA	1947005104
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SNP_P4_159295_364817	NW_004516574.1	Scaffold1348_1	364817	CC	AA	1947005128
SNP_P4_159296_383819	NW_004516574.1	Scaffold1348_1	383819	GG	AA	1947005130
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SNP_P4_159299_383872	NW_004516574.1	Scaffold1348_1	383872	AA	GG	1947005134
SNP_P4_159300_384833	NW_004516574.1	Scaffold1348_1	384833	GG	TT	1947005136
SNP_P4_159301_386323	NW_004516574.1	Scaffold1348_1	386323	TT	GG	1947005138
SNP_P4_159302_386478	NW_004516574.1	Scaffold1348_1	386478	AA	GG	1947005140

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_159304_386615	NW_004516574.1	Scaffold1348_1	386615	AA	GG	1947005144
SNP_P4_159305_386616	NW_004516574.1	Scaffold1348_1	386616	TT	GG	1947005146
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SNP_P4_159307_406872	NW_004516574.1	Scaffold1348_1	406872	AA	TT	1947005150
SNP_P4_159308_415495	NW_004516574.1	Scaffold1348_1	415495	AA	CC	1947005152
SNP_P4_159310_417935	NW_004516574.1	Scaffold1348_1	417935	AA	GG	1947005154
SNP_P4_159311_420265	NW_004516574.1	Scaffold1348_1	420265	AA	CC	1947005156
SNP_P4_159313_435422	NW_004516574.1	Scaffold1348_1	435422	GG	AA	1947005158
SNP_P4_159314_446232	NW_004516574.1	Scaffold1348_1	446232	AA	CC	1947005160
SNP_P4_159315_454765	NW_004516574.1	Scaffold1348_1	454765	AA	TT	1947005162
SNP_P4_159317_502425	NW_004516574.1	Scaffold1348_1	502425	TT	CC	1947005164
SNP_P4_159318_502469	NW_004516574.1	Scaffold1348_1	502469	TT	AA	1947005166
SNP_P4_159319_502470	NW_004516574.1	Scaffold1348_1	502470	CC	TT	1947005168
SNP_P4_159321_514959	NW_004516574.1	Scaffold1348_1	514959	AA	CC	1947005170
SNP_P4_159322_519400	NW_004516574.1	Scaffold1348_1	519400	CC	TT	1947005172
SNP_P4_159323_521825	NW_004516574.1	Scaffold1348_1	521825	CC	TT	1947005174
SNP_P4_159325_533376	NW_004516574.1	Scaffold1348_1	533376	AA	TT	1947005176
SNP_P4_159326_533377	NW_004516574.1	Scaffold1348_1	533377	AA	TT	1947005178
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SNP_P4_159330_580127	NW_004516574.1	Scaffold1348_1	580127	CC	TT	1947005184
SNP_P4_159331_580416	NW_004516574.1	Scaffold1348_1	580416	TT	AA	1947005186
SNP_P4_159332_633298	NW_004516574.1	Scaffold1348_1	633298	GG	TT	1947005188
SNP_P4_159334_634699	NW_004516574.1	Scaffold1348_1	634699	GG	AA	1947005190
SNP_P4_159335_634940	NW_004516574.1	Scaffold1348_1	634940	CC	TT	1947005192
SNP_P4_159336_642773	NW_004516574.1	Scaffold1348_1	642773	AA	CC	1947005194
SNP_P4_159337_649286	NW_004516574.1	Scaffold1348_1	649286	AA	TT	1947005196
SNP_P4_159340_698071	NW_004516574.1	Scaffold1348_1	698071	GG	AA	1947005198
SNP_P4_159341_699499	NW_004516574.1	Scaffold1348_1	699499	GG	CC	1947005200
SNP_P4_159344_712663	NW_004516574.1	Scaffold1348_1	712663	TT	CC	1947005202
SNP_P4_159346_741980	NW_004516574.1	Scaffold1348_1	741980	AA	GG	1947005204
SNP_P4_159347_752681	NW_004516574.1	Scaffold1348_1	752681	CC	TT	1947005205
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SNP_P4_159350_786179	NW_004516574.1	Scaffold1348_1	786179	AA	GG	1947005209
SNP_P4_159351_789112	NW_004516574.1	Scaffold1348_1	789112	TT	CC	1947005211
SNP_P4_159352_791527	NW_004516574.1	Scaffold1348_1	791527	AA	GG	1947005213
SNP_P4_159353_821282	NW_004516574.1	Scaffold1348_1	821282	TT	CC	1947005215
SNP_P4_159355_832032	NW_004516574.1	Scaffold1348_1	832032	TT	CC	1947005217
SNP_P4_159356_850790	NW_004516574.1	Scaffold1348_1	850790	AA	TT	1947005219
SNP_P4_159357_858978	NW_004516574.1	Scaffold1348_1	858978	CC	TT	1947005221
SNP_P4_159358_883373	NW_004516574.1	Scaffold1348_1	883373	AA	GG	1947005223

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_159360_883388	NW_004516574.1	Scaffold1348_1	883388	AA	TT	1947005227
SNP_P4_159361_887781	NW_004516574.1	Scaffold1348_1	887781	CC	TT	1947005229
SNP_P4_159362_888024	NW_004516574.1	Scaffold1348_1	888024	TT	CC	1947005231
SNP_P4_159363_888083	NW_004516574.1	Scaffold1348_1	888083	CC	TT	1947005233
SNP_P4_159365_888264	NW_004516574.1	Scaffold1348_1	888264	CC	TT	1947005235
SNP_P4_159367_894333	NW_004516574.1	Scaffold1348_1	894333	GG	AA	1947005237
SNP_P4_159368_894345	NW_004516574.1	Scaffold1348_1	894345	CC	TT	1947005239
SNP_P4_159369_894367	NW_004516574.1	Scaffold1348_1	894367	GG	AA	1947005241
SNP_P4_159370_894369	NW_004516574.1	Scaffold1348_1	894369	TT	CC	1947005243
SNP_P4_159371_894377	NW_004516574.1	Scaffold1348_1	894377	AA	GG	1947005245
SNP_P4_159372_894383	NW_004516574.1	Scaffold1348_1	894383	TT	GG	1947005247
SNP_P4_159373_894417	NW_004516574.1	Scaffold1348_1	894417	CC	TT	1947005249
SNP_P4_159374_894419	NW_004516574.1	Scaffold1348_1	894419	AA	GG	1947005251
SNP_P4_159375_894574	NW_004516574.1	Scaffold1348_1	894574	TT	CC	1947005253
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SNP_P4_159378_899307	NW_004516574.1	Scaffold1348_1	899307	AA	GG	1947005259
SNP_P4_159379_900659	NW_004516574.1	Scaffold1348_1	900659	GG	TT	1947005260
SNP_P4_159381_926446	NW_004516574.1	Scaffold1348_1	926446	TT	GG	1947005262
SNP_P4_159382_940675	NW_004516574.1	Scaffold1348_1	940675	CC	TT	1947005264
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SNP_P4_159384_956240	NW_004516574.1	Scaffold1348_1	956240	AA	TT	1947005268
SNP_P4_159385_986383	NW_004516574.1	Scaffold1348_1	986383	GG	AA	1947005270
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SNP_P4_159394_1043029	NW_004516574.1	Scaffold1348_1	1043029	TT	CC	1947005284
SNP_P4_159395_1070841	NW_004516574.1	Scaffold1348_1	1070841	AA	TT	1947005286
SNP_P4_159396_1076776	NW_004516574.1	Scaffold1348_1	1076776	GG	TT	1947005288
SNP_P4_159397_1124824	NW_004516574.1	Scaffold1348_1	1124824	TT	AA	1947005290
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SNP_P4_159399_1133664	NW_004516574.1	Scaffold1348_1	1133664	AA	CC	1947005294
SNP_P4_159400_1138055	NW_004516574.1	Scaffold1348_1	1138055	AA	TT	1947005296
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SNP_P4_159403_1138097	NW_004516574.1	Scaffold1348_1	1138097	TT	AA	1947005301
SNP_P4_159404_1138119	NW_004516574.1	Scaffold1348_1	1138119	CC	GG	1947005303
SNP_P4_159405_1138165	NW_004516574.1	Scaffold1348_1	1138165	TT	AA	1947005305

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_159409_1138346	NW_004516574.1	Scaffold1348_1	1138346	GG	TT	1947005311
SNP_P4_159410_1138402	NW_004516574.1	Scaffold1348_1	1138402	AA	GG	1947005313
SNP_P4_159411_1138410	NW_004516574.1	Scaffold1348_1	1138410	AA	CC	1947005315
SNP_P4_159412_1138431	NW_004516574.1	Scaffold1348_1	1138431	AA	GG	1947005317
SNP_P4_159413_1138440	NW_004516574.1	Scaffold1348_1	1138440	CC	GG	1947005319
SNP_P4_159414_1138462	NW_004516574.1	Scaffold1348_1	1138462	AA	TT	1947005321
SNP_P4_159416_1138503	NW_004516574.1	Scaffold1348_1	1138503	TT	GG	1947005323
SNP_P4_159418_1138556	NW_004516574.1	Scaffold1348_1	1138556	CC	GG	1947005325
SNP_P4_159419_1138587	NW_004516574.1	Scaffold1348_1	1138587	TT	CC	1947005327
SNP_P4_159420_1138589	NW_004516574.1	Scaffold1348_1	1138589	AA	TT	1947005329
SNP_P4_159421_1138595	NW_004516574.1	Scaffold1348_1	1138595	AA	CC	1947005331
SNP_P4_159422_1138618	NW_004516574.1	Scaffold1348_1	1138618	CC	TT	1947005333
SNP_P4_159423_1138634	NW_004516574.1	Scaffold1348_1	1138634	AA	TT	1947005335
SNP_P4_159424_1138663	NW_004516574.1	Scaffold1348_1	1138663	GG	TT	1947005337
SNP_P4_159425_1138678	NW_004516574.1	Scaffold1348_1	1138678	AA	TT	1947005339
SNP_P4_159426_1138694	NW_004516574.1	Scaffold1348_1	1138694	TT	CC	1947005341
SNP_P4_159427_1138696	NW_004516574.1	Scaffold1348_1	1138696	TT	CC	1947005343
SNP_P4_159428_1138707	NW_004516574.1	Scaffold1348_1	1138707	AA	GG	1947005345
SNP_P4_159429_1138716	NW_004516574.1	Scaffold1348_1	1138716	AA	TT	1947005347
SNP_P4_159430_1138722	NW_004516574.1	Scaffold1348_1	1138722	AA	GG	1947005349
SNP_P4_159431_1138725	NW_004516574.1	Scaffold1348_1	1138725	CC	AA	1947005351
SNP_P4_159432_1138753	NW_004516574.1	Scaffold1348_1	1138753	TT	CC	1947005353
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SNP_P4_159434_1138778	NW_004516574.1	Scaffold1348_1	1138778	GG	AA	1947005357
SNP_P4_159435_1138782	NW_004516574.1	Scaffold1348_1	1138782	TT	CC	1947005359
SNP_P4_159436_1138790	NW_004516574.1	Scaffold1348_1	1138790	CC	TT	1947005361
SNP_P4_159437_1138794	NW_004516574.1	Scaffold1348_1	1138794	TT	AA	1947005363
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SNP_P4_159439_1138841	NW_004516574.1	Scaffold1348_1	1138841	TT	CC	1947005367
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SNP_P4_159442_1139400	NW_004516574.1	Scaffold1348_1	1139400	AA	CC	1947005373
SNP_P4_159443_1139403	NW_004516574.1	Scaffold1348_1	1139403	CC	TT	1947005375
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SNP_P4_159445_1139478	NW_004516574.1	Scaffold1348_1	1139478	AA	CC	1947005378
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SNP_P4_159450_1156312	NW_004516574.1	Scaffold1348_1	1156312	TT	GG	1947005382
SNP_P4_159451_1163116	NW_004516574.1	Scaffold1348_1	1163116	TT	AA	1947005383

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_159456_1209532	NW_004516574.1	Scaffold1348_1	1209532	CC	TT	1947005387
SNP_P4_159457_1217065	NW_004516574.1	Scaffold1348_1	1217065	TT	CC	1947005388
SNP_P4_159458_1217094	NW_004516574.1	Scaffold1348_1	1217094	CC	TT	1947005389
SNP_P4_159460_1231346	NW_004516574.1	Scaffold1348_1	1231346	CC	TT	1947005390
SNP_P4_159461_1250144	NW_004516574.1	Scaffold1348_1	1250144	TT	AA	1947005391
SNP_P4_159463_1257236	NW_004516574.1	Scaffold1348_1	1257236	AA	GG	1947005392
SNP_P4_159464_1258146	NW_004516574.1	Scaffold1348_1	1258146	AA	GG	1947005393
SNP_P4_159465_1262851	NW_004516574.1	Scaffold1348_1	1262851	TT	AA	1947005394
SNP_P4_159468_1315066	NW_004516574.1	Scaffold1348_1	1315066	CC	AA	1947005395
SNP_P4_159469_1323076	NW_004516574.1	Scaffold1348_1	1323076	AA	TT	1947005396
SNP_P4_159470_1323087	NW_004516574.1	Scaffold1348_1	1323087	AA	GG	1947005397
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SNP_P4_159472_1323248	NW_004516574.1	Scaffold1348_1	1323248	AA	GG	1947005399
SNP_P4_159473_1361279	NW_004516574.1	Scaffold1348_1	1361279	GG	AA	1947005400
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SNP_P4_159493_20962	NW_004516576.1	Scaffold1351	20962	GG	AA	1947005417
SNP_P4_159494_20964	NW_004516576.1	Scaffold1351	20964	AA	CC	1947005418
SNP_P4_159495_21755	NW_004516576.1	Scaffold1351	21755	TT	AA	1947005419
SNP_P4_159496_21764	NW_004516576.1	Scaffold1351	21764	TT	CC	1947005420
SNP_P4_159497_22449	NW_004516576.1	Scaffold1351	22449	AA	CC	1947005421
SNP_P4_159498_45779	NW_004516576.1	Scaffold1351	45779	TT	CC	1947005422
SNP_P4_159499_54747	NW_004516576.1	Scaffold1351	54747	AA	GG	1947005423
SNP_P4_159500_61922	NW_004516576.1	Scaffold1351	61922	CC	GG	1947005424
SNP_P4_159501_62507	NW_004516576.1	Scaffold1351	62507	CC	AA	1947005425

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_159503_62544	NW_004516576.1	Scaffold1351	62544	CC	TT	1947005427
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SNP_P4_159506_62577	NW_004516576.1	Scaffold1351	62577	CC	GG	1947005433
SNP_P4_159507_62597	NW_004516576.1	Scaffold1351	62597	GG	AA	1947005435
SNP_P4_159508_62760	NW_004516576.1	Scaffold1351	62760	TT	AA	1947005437
SNP_P4_159509_66694	NW_004516576.1	Scaffold1351	66694	TT	CC	1947005439
SNP_P4_159510_66708	NW_004516576.1	Scaffold1351	66708	CC	TT	1947005441
SNP_P4_159511_66712	NW_004516576.1	Scaffold1351	66712	TT	AA	1947005443
SNP_P4_159512_67037	NW_004516576.1	Scaffold1351	67037	GG	AA	1947005445
SNP_P4_159513_67052	NW_004516576.1	Scaffold1351	67052	GG	AA	1947005447
SNP_P4_159514_67094	NW_004516576.1	Scaffold1351	67094	TT	CC	1947005449
SNP_P4_159516_97121	NW_004516576.1	Scaffold1351	97121	GG	CC	1947005451
SNP_P4_159518_109859	NW_004516576.1	Scaffold1351	109859	AA	CC	1947005453
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SNP_P4_159523_170841	NW_004516576.1	Scaffold1351	170841	GG	AA	1947005461
SNP_P4_159524_170862	NW_004516576.1	Scaffold1351	170862	CC	TT	1947005463
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SNP_P4_159536_198685	NW_004516576.1	Scaffold1351	198685	GG	AA	1947005488
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SNP_P4_159540_211385	NW_004516576.1	Scaffold1351	211385	AA	TT	1947005494
SNP_P4_159541_217634	NW_004516576.1	Scaffold1351	217634	TT	AA	1947005496
SNP_P4_159542_218061	NW_004516576.1	Scaffold1351	218061	TT	CC	1947005498
SNP_P4_159543_224364	NW_004516576.1	Scaffold1351	224364	GG	TT	1947005500
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SNP_P4_159545_257201	NW_004516576.1	Scaffold1351	257201	GG	AA	1947005504
SNP_P4_159546_269205	NW_004516576.1	Scaffold1351	269205	TT	AA	1947005506
SNP_P4_159547_274685	NW_004516576.1	Scaffold1351	274685	CC	TT	1947005508

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_159550_274912	NW_004516576.1	Scaffold1351	274912	AA	CC	1947005514
SNP_P4_159551_279624	NW_004516576.1	Scaffold1351	279624	TT	CC	1947005516
SNP_P4_159552_279649	NW_004516576.1	Scaffold1351	279649	TT	AA	1947005518
SNP_P4_159553_284498	NW_004516576.1	Scaffold1351	284498	TT	AA	1947005521
SNP_P4_159554_286240	NW_004516576.1	Scaffold1351	286240	AA	GG	1947005523
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SNP_P4_159556_296582	NW_004516576.1	Scaffold1351	296582	TT	CC	1947005527
SNP_P4_159557_302704	NW_004516576.1	Scaffold1351	302704	CC	TT	1947005529
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SNP_P4_159559_309474	NW_004516576.1	Scaffold1351	309474	AA	CC	1947005533
SNP_P4_159560_318002	NW_004516576.1	Scaffold1351	318002	CC	AA	1947005535
SNP_P4_159561_327137	NW_004516576.1	Scaffold1351	327137	GG	AA	1947005537
SNP_P4_159562_329596	NW_004516576.1	Scaffold1351	329596	AA	GG	1947005539
SNP_P4_159563_331248	NW_004516576.1	Scaffold1351	331248	CC	AA	1947005541
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SNP_P4_159566_340991	NW_004516576.1	Scaffold1351	340991	AA	GG	1947005544
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SNP_P4_159569_342783	NW_004516576.1	Scaffold1351	342783	GG	TT	1947005547
SNP_P4_159570_342787	NW_004516576.1	Scaffold1351	342787	AA	GG	1947005548
SNP_P4_159571_342835	NW_004516576.1	Scaffold1351	342835	TT	CC	1947005549
SNP_P4_159572_342856	NW_004516576.1	Scaffold1351	342856	CC	TT	1947005550
SNP_P4_159573_352025	NW_004516576.1	Scaffold1351	352025	AA	GG	1947005551
SNP_P4_159574_365869	NW_004516576.1	Scaffold1351	365869	GG	TT	1947005552
SNP_P4_159575_365890	NW_004516576.1	Scaffold1351	365890	AA	GG	1947005553
SNP_P4_159576_366068	NW_004516576.1	Scaffold1351	366068	GG	TT	1947005554
SNP_P4_159577_366092	NW_004516576.1	Scaffold1351	366092	CC	TT	1947005555
SNP_P4_159578_366108	NW_004516576.1	Scaffold1351	366108	AA	GG	1947005556
SNP_P4_159579_366201	NW_004516576.1	Scaffold1351	366201	TT	AA	1947005557
SNP_P4_159580_366273	NW_004516576.1	Scaffold1351	366273	TT	GG	1947005558
SNP_P4_159581_2273	NW_004516579.1	Scaffold1354	2273	AA	GG	1947005559
SNP_P4_159582_5734	NW_004516579.1	Scaffold1354	5734	TT	AA	1947005560
SNP_P4_159583_6832	NW_004516579.1	Scaffold1354	6832	TT	CC	1947005561
SNP_P4_159584_405	NW_004516582.1	Scaffold1358	405	AA	TT	1947005562
SNP_P4_159585_476	NW_004516582.1	Scaffold1358	476	CC	TT	1947005563
SNP_P4_159587_522	NW_004516582.1	Scaffold1358	522	TT	CC	1947005564
SNP_P4_159588_532	NW_004516582.1	Scaffold1358	532	AA	TT	1947005565
SNP_P4_159589_578	NW_004516582.1	Scaffold1358	578	AA	GG	1947005566
SNP_P4_159590_705	NW_004516582.1	Scaffold1358	705	CC	AA	1947005568

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_159591_732	NW_004516582.1	Scaffold1358	732	AA	CC	1947005570
SNP_P4_159592_752	NW_004516582.1	Scaffold1358	752	GG	AA	1947005572
SNP_P4_159594_871	NW_004516582.1	Scaffold1358	871	TT	CC	1947005574
SNP_P4_159595_919	NW_004516582.1	Scaffold1358	919	CC	AA	1947005576
SNP_P4_159596_995	NW_004516582.1	Scaffold1358	995	AA	CC	1947005578
SNP_P4_159597_1002	NW_004516582.1	Scaffold1358	1002	AA	TT	1947005580
SNP_P4_159598_1229	NW_004516582.1	Scaffold1358	1229	AA	CC	1947005582
SNP_P4_159599_4601	NW_004516582.1	Scaffold1358	4601	TT	GG	1947005584
SNP_P4_159600_9797	NW_004516582.1	Scaffold1358	9797	TT	AA	1947005586
SNP_P4_159601_9806	NW_004516582.1	Scaffold1358	9806	CC	AA	1947005588
SNP_P4_159602_10073	NW_004516582.1	Scaffold1358	10073	GG	AA	1947005590
SNP_P4_159603_10138	NW_004516582.1	Scaffold1358	10138	CC	AA	1947005592
SNP_P4_159604_10227	NW_004516582.1	Scaffold1358	10227	AA	CC	1947005594
SNP_P4_159605_10289	NW_004516582.1	Scaffold1358	10289	AA	TT	1947005596
SNP_P4_159606_10450	NW_004516582.1	Scaffold1358	10450	TT	AA	1947005598
SNP_P4_159607_10451	NW_004516582.1	Scaffold1358	10451	AA	TT	1947005600
SNP_P4_159608_10614	NW_004516582.1	Scaffold1358	10614	TT	AA	1947005602
SNP_P4_159609_10697	NW_004516582.1	Scaffold1358	10697	GG	AA	1947005604
SNP_P4_159610_10858	NW_004516582.1	Scaffold1358	10858	AA	GG	1947005606
SNP_P4_159611_11044	NW_004516582.1	Scaffold1358	11044	AA	CC	1947005608
SNP_P4_159612_11757	NW_004516582.1	Scaffold1358	11757	AA	GG	1947005610
SNP_P4_159613_11825	NW_004516582.1	Scaffold1358	11825	AA	GG	1947005612
SNP_P4_159614_11896	NW_004516582.1	Scaffold1358	11896	AA	TT	1947005614
SNP_P4_159615_11941	NW_004516582.1	Scaffold1358	11941	CC	TT	1947005616
SNP_P4_159616_12062	NW_004516582.1	Scaffold1358	12062	CC	GG	1947005618
SNP_P4_159617_12075	NW_004516582.1	Scaffold1358	12075	AA	GG	1947005620
SNP_P4_159618_12088	NW_004516582.1	Scaffold1358	12088	CC	GG	1947005622
SNP_P4_159619_12110	NW_004516582.1	Scaffold1358	12110	AA	CC	1947005624
SNP_P4_159620_12128	NW_004516582.1	Scaffold1358	12128	AA	GG	1947005626
SNP_P4_159621_12154	NW_004516582.1	Scaffold1358	12154	TT	AA	1947005628
SNP_P4_159622_12155	NW_004516582.1	Scaffold1358	12155	AA	TT	1947005630
SNP_P4_159623_12192	NW_004516582.1	Scaffold1358	12192	AA	CC	1947005632
SNP_P4_159624_12197	NW_004516582.1	Scaffold1358	12197	TT	GG	1947005634
SNP_P4_159625_3859	NW_004516583.1	Scaffold1359	3859	TT	CC	1947005636
SNP_P4_159626_19218	NW_004516583.1	Scaffold1359	19218	AA	TT	1947005638
SNP_P4_159627_42651	NW_004516583.1	Scaffold1359	42651	TT	CC	1947005640
SNP_P4_159628_53279	NW_004516583.1	Scaffold1359	53279	GG	TT	1947005642
SNP_P4_159629_56876	NW_004516583.1	Scaffold1359	56876	TT	CC	1947005644
SNP_P4_159630_56883	NW_004516583.1	Scaffold1359	56883	AA	CC	1947005646
SNP_P4_159631_56886	NW_004516583.1	Scaffold1359	56886	GG	TT	1947005648
SNP_P4_159632_58538	NW_004516583.1	Scaffold1359	58538	GG	AA	1947005650
SNP_P4_159633_58595	NW_004516583.1	Scaffold1359	58595	AA	GG	1947005652

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_159634_58609	NW_004516583.1	Scaffold1359	58609	CC	TT	1947005654
SNP_P4_159635_58613	NW_004516583.1	Scaffold1359	58613	AA	GG	1947005656
SNP_P4_159636_58834	NW_004516583.1	Scaffold1359	58834	TT	GG	1947005658
SNP_P4_159638_74383	NW_004516583.1	Scaffold1359	74383	TT	AA	1947005660
SNP_P4_159640_74688	NW_004516583.1	Scaffold1359	74688	AA	TT	1947005662
SNP_P4_159641_97101	NW_004516583.1	Scaffold1359	97101	TT	CC	1947005664
SNP_P4_159642_98497	NW_004516583.1	Scaffold1359	98497	TT	CC	1947005666
SNP_P4_159643_98505	NW_004516583.1	Scaffold1359	98505	AA	GG	1947005668
SNP_P4_159644_99511	NW_004516583.1	Scaffold1359	99511	TT	GG	1947005670
SNP_P4_159645_99531	NW_004516583.1	Scaffold1359	99531	GG	TT	1947005672
SNP_P4_159646_99544	NW_004516583.1	Scaffold1359	99544	TT	CC	1947005674
SNP_P4_159647_101918	NW_004516583.1	Scaffold1359	101918	AA	GG	1947005676
SNP_P4_159648_115102	NW_004516583.1	Scaffold1359	115102	GG	TT	1947005678
SNP_P4_159649_651	NW_004516584.1	Scaffold1360	651	AA	TT	1947005680
SNP_P4_159652_6900	NW_004516584.1	Scaffold1360	6900	GG	AA	1947005682
SNP_P4_159653_14198	NW_004516584.1	Scaffold1360	14198	GG	TT	1947005684
SNP_P4_159654_14354	NW_004516584.1	Scaffold1360	14354	AA	GG	1947005686
SNP_P4_159655_14459	NW_004516584.1	Scaffold1360	14459	AA	TT	1947005688
SNP_P4_159656_14896	NW_004516584.1	Scaffold1360	14896	AA	TT	1947005690
SNP_P4_159657_14930	NW_004516584.1	Scaffold1360	14930	AA	GG	1947005692
SNP_P4_159658_14978	NW_004516584.1	Scaffold1360	14978	AA	GG	1947005694
SNP_P4_159659_15129	NW_004516584.1	Scaffold1360	15129	GG	TT	1947005696
SNP_P4_159660_15133	NW_004516584.1	Scaffold1360	15133	GG	AA	1947005698
SNP_P4_159661_15156	NW_004516584.1	Scaffold1360	15156	GG	AA	1947005700
SNP_P4_159662_15188	NW_004516584.1	Scaffold1360	15188	AA	CC	1947005702
SNP_P4_159663_16801	NW_004516584.1	Scaffold1360	16801	TT	CC	1947005704
SNP_P4_159664_16813	NW_004516584.1	Scaffold1360	16813	TT	AA	1947005706
SNP_P4_159665_16814	NW_004516584.1	Scaffold1360	16814	TT	AA	1947005708
SNP_P4_159666_17301	NW_004516584.1	Scaffold1360	17301	GG	AA	1947005710
SNP_P4_159667_17318	NW_004516584.1	Scaffold1360	17318	AA	CC	1947005712
SNP_P4_159668_17417	NW_004516584.1	Scaffold1360	17417	TT	GG	1947005714
SNP_P4_159669_17450	NW_004516584.1	Scaffold1360	17450	GG	AA	1947005716
SNP_P4_159670_9817	NW_004516585.1	Scaffold1361	9817	TT	GG	1947005718
SNP_P4_159671_10284	NW_004516585.1	Scaffold1361	10284	GG	AA	1947005720
SNP_P4_159672_31198	NW_004516587.1	Scaffold1364	31198	GG	CC	1947005722
SNP_P4_159673_56996	NW_004516587.1	Scaffold1364	56996	TT	AA	1947005724
SNP_P4_159674_76674	NW_004516587.1	Scaffold1364	76674	CC	GG	1947005726
SNP_P4_159675_76885	NW_004516587.1	Scaffold1364	76885	TT	AA	1947005728
SNP_P4_159676_110649	NW_004516587.1	Scaffold1364	110649	TT	CC	1947005730
SNP_P4_159677_110650	NW_004516587.1	Scaffold1364	110650	GG	TT	1947005732
SNP_P4_159678_110670	NW_004516587.1	Scaffold1364	110670	TT	CC	1947005734
SNP_P4_159679_110691	NW_004516587.1	Scaffold1364	110691	CC	TT	1947005736

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_159680_110722	NW_004516587.1	Scaffold1364	110722	GG	AA	1947005738
SNP_P4_159681_111448	NW_004516587.1	Scaffold1364	111448	AA	TT	1947005740
SNP_P4_159682_113972	NW_004516587.1	Scaffold1364	113972	CC	TT	1947005742
SNP_P4_159683_114925	NW_004516587.1	Scaffold1364	114925	GG	AA	1947005744
SNP_P4_159684_126014	NW_004516587.1	Scaffold1364	126014	GG	AA	1947005746
SNP_P4_159685_132255	NW_004516587.1	Scaffold1364	132255	TT	AA	1947005748
SNP_P4_159686_132267	NW_004516587.1	Scaffold1364	132267	AA	GG	1947005750
SNP_P4_159687_139622	NW_004516587.1	Scaffold1364	139622	AA	GG	1947005752
SNP_P4_159688_148069	NW_004516587.1	Scaffold1364	148069	AA	TT	1947005754
SNP_P4_159689_148087	NW_004516587.1	Scaffold1364	148087	CC	AA	1947005756
SNP_P4_159690_148114	NW_004516587.1	Scaffold1364	148114	AA	TT	1947005758
SNP_P4_159691_154430	NW_004516587.1	Scaffold1364	154430	AA	GG	1947005760
SNP_P4_159692_522	NW_004516588.1	Scaffold1365	522	GG	AA	1947005762
SNP_P4_159693_545	NW_004516588.1	Scaffold1365	545	AA	GG	1947005763
SNP_P4_159694_604	NW_004516588.1	Scaffold1365	604	AA	TT	1947005764
SNP_P4_159695_4799	NW_004516588.1	Scaffold1365	4799	GG	AA	1947005765
SNP_P4_159697_7112	NW_004516588.1	Scaffold1365	7112	TT	AA	1947005766
SNP_P4_159698_7307	NW_004516588.1	Scaffold1365	7307	AA	TT	1947005768
SNP_P4_159699_7404	NW_004516588.1	Scaffold1365	7404	GG	AA	1947005770
SNP_P4_159700_7426	NW_004516588.1	Scaffold1365	7426	TT	GG	1947005772
SNP_P4_159701_7459	NW_004516588.1	Scaffold1365	7459	CC	TT	1947005774
SNP_P4_159702_7472	NW_004516588.1	Scaffold1365	7472	AA	TT	1947005776
SNP_P4_159703_7662	NW_004516588.1	Scaffold1365	7662	GG	AA	1947005778
SNP_P4_159704_7682	NW_004516588.1	Scaffold1365	7682	AA	TT	1947005780
SNP_P4_159705_7744	NW_004516588.1	Scaffold1365	7744	AA	TT	1947005782
SNP_P4_159706_7768	NW_004516588.1	Scaffold1365	7768	CC	TT	1947005784
SNP_P4_159707_7774	NW_004516588.1	Scaffold1365	7774	GG	CC	1947005786
SNP_P4_159708_8118	NW_004516588.1	Scaffold1365	8118	TT	AA	1947005788
SNP_P4_159709_8130	NW_004516588.1	Scaffold1365	8130	TT	CC	1947005790
SNP_P4_159710_8200	NW_004516588.1	Scaffold1365	8200	TT	AA	1947005792
SNP_P4_159711_8212	NW_004516588.1	Scaffold1365	8212	AA	GG	1947005794
SNP_P4_159712_8227	NW_004516588.1	Scaffold1365	8227	TT	AA	1947005796
SNP_P4_159713_8255	NW_004516588.1	Scaffold1365	8255	TT	CC	1947005798
SNP_P4_159714_8260	NW_004516588.1	Scaffold1365	8260	TT	CC	1947005800
SNP_P4_159715_8277	NW_004516588.1	Scaffold1365	8277	GG	AA	1947005802
SNP_P4_159716_8354	NW_004516588.1	Scaffold1365	8354	CC	TT	1947005804
SNP_P4_159717_8423	NW_004516588.1	Scaffold1365	8423	TT	AA	1947005806
SNP_P4_159718_8468	NW_004516588.1	Scaffold1365	8468	CC	GG	1947005808
SNP_P4_159719_8525	NW_004516588.1	Scaffold1365	8525	CC	TT	1947005810
SNP_P4_159720_8563	NW_004516588.1	Scaffold1365	8563	GG	CC	1947005812
SNP_P4_159721_8658	NW_004516588.1	Scaffold1365	8658	TT	AA	1947005814
SNP_P4_159722_8723	NW_004516588.1	Scaffold1365	8723	TT	GG	1947005816

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_159724_19348	NW_004516588.1	Scaffold1365	19348	GG	AA	1947005820
SNP_P4_159725_19355	NW_004516588.1	Scaffold1365	19355	AA	GG	1947005822
SNP_P4_159726_19356	NW_004516588.1	Scaffold1365	19356	GG	CC	1947005824
SNP_P4_159727_19358	NW_004516588.1	Scaffold1365	19358	AA	TT	1947005826
SNP_P4_159728_19367	NW_004516588.1	Scaffold1365	19367	AA	GG	1947005828
SNP_P4_159729_19374	NW_004516588.1	Scaffold1365	19374	GG	AA	1947005830
SNP_P4_159733_74762	NW_004516588.1	Scaffold1365	74762	AA	GG	1947005832
SNP_P4_159734_74877	NW_004516588.1	Scaffold1365	74877	GG	TT	1947005834
SNP_P4_159735_84659	NW_004516588.1	Scaffold1365	84659	TT	AA	1947005836
SNP_P4_159736_86598	NW_004516588.1	Scaffold1365	86598	TT	AA	1947005838
SNP_P4_159737_86831	NW_004516588.1	Scaffold1365	86831	CC	AA	1947005840
SNP_P4_159738_86862	NW_004516588.1	Scaffold1365	86862	TT	CC	1947005842
SNP_P4_159739_86973	NW_004516588.1	Scaffold1365	86973	AA	GG	1947005844
SNP_P4_159740_87050	NW_004516588.1	Scaffold1365	87050	CC	GG	1947005846
SNP_P4_159741_87151	NW_004516588.1	Scaffold1365	87151	CC	TT	1947005848
SNP_P4_159742_87171	NW_004516588.1	Scaffold1365	87171	GG	AA	1947005850
SNP_P4_159743_89127	NW_004516588.1	Scaffold1365	89127	GG	AA	1947005852
SNP_P4_159744_95245	NW_004516588.1	Scaffold1365	95245	GG	TT	1947005854
SNP_P4_159745_95261	NW_004516588.1	Scaffold1365	95261	AA	GG	1947005856
SNP_P4_159746_95501	NW_004516588.1	Scaffold1365	95501	CC	GG	1947005858
SNP_P4_159747_96159	NW_004516588.1	Scaffold1365	96159	GG	TT	1947005860
SNP_P4_159748_96525	NW_004516588.1	Scaffold1365	96525	CC	AA	1947005862
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SNP_P4_159750_96631	NW_004516588.1	Scaffold1365	96631	AA	TT	1947005866
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SNP_P4_159756_98885	NW_004516588.1	Scaffold1365	98885	CC	AA	1947005878
SNP_P4_159757_98901	NW_004516588.1	Scaffold1365	98901	TT	GG	1947005880
SNP_P4_159758_99083	NW_004516588.1	Scaffold1365	99083	AA	TT	1947005882
SNP_P4_159759_99146	NW_004516588.1	Scaffold1365	99146	AA	GG	1947005884
SNP_P4_159760_99150	NW_004516588.1	Scaffold1365	99150	GG	TT	1947005886
SNP_P4_159761_99268	NW_004516588.1	Scaffold1365	99268	CC	TT	1947005888
SNP_P4_159762_99351	NW_004516588.1	Scaffold1365	99351	CC	AA	1947005890
SNP_P4_159763_99834	NW_004516588.1	Scaffold1365	99834	GG	TT	1947005892
SNP_P4_159764_99872	NW_004516588.1	Scaffold1365	99872	TT	GG	1947005894
SNP_P4_159765_100398	NW_004516588.1	Scaffold1365	100398	GG	AA	1947005896
SNP_P4_159766_102505	NW_004516588.1	Scaffold1365	102505	AA	GG	1947005898
SNP_P4_159767_102523	NW_004516588.1	Scaffold1365	102523	GG	TT	1947005900

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_159769_104475	NW_004516588.1	Scaffold1365	104475	AA	TT	1947005904
SNP_P4_159770_104476	NW_004516588.1	Scaffold1365	104476	TT	CC	1947005906
SNP_P4_159771_558	NW_004516589.1	Scaffold1366	558	GG	CC	1947005908
SNP_P4_159772_561	NW_004516589.1	Scaffold1366	561	GG	AA	1947005910
SNP_P4_159773_689	NW_004516589.1	Scaffold1366	689	AA	TT	1947005912
SNP_P4_159774_13423	NW_004516590.1	Scaffold1367	13423	TT	CC	1947005914
SNP_P4_159776_13445	NW_004516590.1	Scaffold1367	13445	CC	TT	1947005916
SNP_P4_159777_13672	NW_004516590.1	Scaffold1367	13672	CC	TT	1947005918
SNP_P4_159778_22363	NW_004516590.1	Scaffold1367	22363	TT	GG	1947005920
SNP_P4_159779_22418	NW_004516590.1	Scaffold1367	22418	AA	TT	1947005922
SNP_P4_159780_29606	NW_004516590.1	Scaffold1367	29606	TT	GG	1947005924
SNP_P4_159781_31184	NW_004516590.1	Scaffold1367	31184	CC	TT	1947005926
SNP_P4_159782_3748	NW_004516592.1	Scaffold1369	3748	CC	GG	1947005928
SNP_P4_159783_3749	NW_004516592.1	Scaffold1369	3749	AA	TT	1947005930
SNP_P4_159784_5116	NW_004516592.1	Scaffold1369	5116	CC	AA	1947005932
SNP_P4_159785_5212	NW_004516592.1	Scaffold1369	5212	AA	GG	1947005934
SNP_P4_159786_5227	NW_004516592.1	Scaffold1369	5227	AA	TT	1947005936
SNP_P4_159787_5229	NW_004516592.1	Scaffold1369	5229	AA	GG	1947005938
SNP_P4_159788_5240	NW_004516592.1	Scaffold1369	5240	AA	GG	1947005940
SNP_P4_159789_5253	NW_004516592.1	Scaffold1369	5253	AA	GG	1947005942
SNP_P4_159790_16122	NW_004516592.1	Scaffold1369	16122	CC	TT	1947005944
SNP_P4_159792_65831	NW_004516592.1	Scaffold1369	65831	TT	AA	1947005946
SNP_P4_159793_66170	NW_004516592.1	Scaffold1369	66170	CC	TT	1947005948
SNP_P4_159794_66172	NW_004516592.1	Scaffold1369	66172	AA	GG	1947005950
SNP_P4_159795_68091	NW_004516592.1	Scaffold1369	68091	AA	CC	1947005952
SNP_P4_159796_68092	NW_004516592.1	Scaffold1369	68092	GG	AA	1947005954
SNP_P4_159797_76646	NW_004516592.1	Scaffold1369	76646	TT	AA	1947005956
SNP_P4_159798_76676	NW_004516592.1	Scaffold1369	76676	TT	CC	1947005958
SNP_P4_159799_76677	NW_004516592.1	Scaffold1369	76677	CC	TT	1947005960
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SNP_P4_159804_76742	NW_004516592.1	Scaffold1369	76742	AA	GG	1947005970
SNP_P4_159805_77014	NW_004516592.1	Scaffold1369	77014	AA	GG	1947005972
SNP_P4_159806_77107	NW_004516592.1	Scaffold1369	77107	AA	GG	1947005974
SNP_P4_159807_77113	NW_004516592.1	Scaffold1369	77113	TT	GG	1947005976
SNP_P4_159808_77140	NW_004516592.1	Scaffold1369	77140	AA	GG	1947005978
SNP_P4_159809_77199	NW_004516592.1	Scaffold1369	77199	GG	TT	1947005980
SNP_P4_159811_81027	NW_004516592.1	Scaffold1369	81027	AA	GG	1947005982
SNP_P4_159813_196602	NW_004516592.1	Scaffold1369	196602	GG	AA	1947005984

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_159815_196937	NW_004516592.1	Scaffold1369	196937	CC	TT	1947005988
SNP_P4_159816_197264	NW_004516592.1	Scaffold1369	197264	GG	AA	1947005990
SNP_P4_159818_211148	NW_004516592.1	Scaffold1369	211148	TT	AA	1947005992
SNP_P4_159819_215564	NW_004516592.1	Scaffold1369	215564	TT	GG	1947005994
SNP_P4_159820_215611	NW_004516592.1	Scaffold1369	215611	TT	GG	1947005996
SNP_P4_159821_215635	NW_004516592.1	Scaffold1369	215635	GG	TT	1947005998
SNP_P4_159822_215636	NW_004516592.1	Scaffold1369	215636	AA	GG	1947006000
SNP_P4_159823_216004	NW_004516592.1	Scaffold1369	216004	CC	AA	1947006002
SNP_P4_159824_216026	NW_004516592.1	Scaffold1369	216026	TT	GG	1947006004
SNP_P4_159825_550	NW_004516593.1	Scaffold1370	550	AA	CC	1947006006
SNP_P4_159826_597	NW_004516593.1	Scaffold1370	597	AA	GG	1947006008
SNP_P4_159827_22792	NW_004516593.1	Scaffold1370	22792	AA	GG	1947006010
SNP_P4_159828_22821	NW_004516593.1	Scaffold1370	22821	AA	GG	1947006012
SNP_P4_159829_22845	NW_004516593.1	Scaffold1370	22845	TT	AA	1947006014
SNP_P4_159830_22846	NW_004516593.1	Scaffold1370	22846	GG	AA	1947006016
SNP_P4_159831_22870	NW_004516593.1	Scaffold1370	22870	AA	GG	1947006018
SNP_P4_159832_23170	NW_004516593.1	Scaffold1370	23170	CC	TT	1947006020
SNP_P4_159833_23171	NW_004516593.1	Scaffold1370	23171	AA	GG	1947006022
SNP_P4_159834_23188	NW_004516593.1	Scaffold1370	23188	TT	CC	1947006024
SNP_P4_159835_23196	NW_004516593.1	Scaffold1370	23196	AA	GG	1947006026
SNP_P4_159836_27588	NW_004516593.1	Scaffold1370	27588	GG	AA	1947006028
SNP_P4_159837_27669	NW_004516593.1	Scaffold1370	27669	AA	GG	1947006030
SNP_P4_159838_27753	NW_004516593.1	Scaffold1370	27753	AA	GG	1947006032
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SNP_P4_159840_27871	NW_004516593.1	Scaffold1370	27871	TT	CC	1947006036
SNP_P4_159841_27890	NW_004516593.1	Scaffold1370	27890	TT	GG	1947006038
SNP_P4_159842_27894	NW_004516593.1	Scaffold1370	27894	AA	GG	1947006040
SNP_P4_159843_27901	NW_004516593.1	Scaffold1370	27901	AA	GG	1947006042
SNP_P4_159844_27931	NW_004516593.1	Scaffold1370	27931	AA	GG	1947006044
SNP_P4_159845_27935	NW_004516593.1	Scaffold1370	27935	GG	TT	1947006046
SNP_P4_159846_27936	NW_004516593.1	Scaffold1370	27936	CC	TT	1947006048
SNP_P4_159847_27946	NW_004516593.1	Scaffold1370	27946	AA	GG	1947006050
SNP_P4_159848_27961	NW_004516593.1	Scaffold1370	27961	CC	TT	1947006052
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SNP_P4_159850_28004	NW_004516593.1	Scaffold1370	28004	CC	TT	1947006056
SNP_P4_159851_28040	NW_004516593.1	Scaffold1370	28040	TT	CC	1947006058
SNP_P4_159852_31044	NW_004516593.1	Scaffold1370	31044	AA	CC	1947006060
SNP_P4_159853_51391	NW_004516593.1	Scaffold1370	51391	TT	CC	1947006062
SNP_P4_159854_84000	NW_004516593.1	Scaffold1370	84000	CC	TT	1947006064
SNP_P4_159855_84057	NW_004516593.1	Scaffold1370	84057	AA	CC	1947006066
SNP_P4_159856_85926	NW_004516593.1	Scaffold1370	85926	TT	GG	1947006068

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_159857_86070	NW_004516593.1	Scaffold1370	86070	AA	CC	1947006070
SNP_P4_159858_86264	NW_004516593.1	Scaffold1370	86264	AA	GG	1947006072
SNP_P4_159860_86394	NW_004516593.1	Scaffold1370	86394	CC	GG	1947006074
SNP_P4_159861_86437	NW_004516593.1	Scaffold1370	86437	GG	AA	1947006076
SNP_P4_159862_20233	NW_004516594.1	Scaffold1371	20233	CC	TT	1947006078
SNP_P4_159863_20287	NW_004516594.1	Scaffold1371	20287	TT	AA	1947006080
SNP_P4_159864_26768	NW_004516594.1	Scaffold1371	26768	AA	CC	1947006082
SNP_P4_159865_26786	NW_004516594.1	Scaffold1371	26786	AA	CC	1947006084
SNP_P4_159866_27162	NW_004516594.1	Scaffold1371	27162	AA	GG	1947006086
SNP_P4_159867_27238	NW_004516594.1	Scaffold1371	27238	GG	TT	1947006088
SNP_P4_159868_27294	NW_004516594.1	Scaffold1371	27294	AA	TT	1947006090
SNP_P4_159869_27363	NW_004516594.1	Scaffold1371	27363	GG	AA	1947006092
SNP_P4_159870_27418	NW_004516594.1	Scaffold1371	27418	AA	GG	1947006094
SNP_P4_159871_27423	NW_004516594.1	Scaffold1371	27423	CC	TT	1947006096
SNP_P4_159872_27526	NW_004516594.1	Scaffold1371	27526	TT	CC	1947006098
SNP_P4_159873_27548	NW_004516594.1	Scaffold1371	27548	GG	AA	1947006100
SNP_P4_159874_27612	NW_004516594.1	Scaffold1371	27612	AA	TT	1947006102
SNP_P4_159875_27667	NW_004516594.1	Scaffold1371	27667	TT	CC	1947006104
SNP_P4_159876_42230	NW_004516594.1	Scaffold1371	42230	GG	CC	1947006106
SNP_P4_159877_44796	NW_004516594.1	Scaffold1371	44796	AA	GG	1947006108
SNP_P4_159878_45395	NW_004516594.1	Scaffold1371	45395	TT	CC	1947006110
SNP_P4_159879_45441	NW_004516594.1	Scaffold1371	45441	AA	GG	1947006112
SNP_P4_159880_45570	NW_004516594.1	Scaffold1371	45570	AA	TT	1947006114
SNP_P4_159881_45592	NW_004516594.1	Scaffold1371	45592	CC	AA	1947006116
SNP_P4_159882_64929	NW_004516594.1	Scaffold1371	64929	TT	CC	1947006118
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SNP_P4_159887_65187	NW_004516594.1	Scaffold1371	65187	TT	CC	1947006128
SNP_P4_159888_65212	NW_004516594.1	Scaffold1371	65212	AA	GG	1947006130
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SNP_P4_159890_65307	NW_004516594.1	Scaffold1371	65307	TT	CC	1947006134
SNP_P4_159891_66609	NW_004516594.1	Scaffold1371	66609	AA	GG	1947006136
SNP_P4_159892_66770	NW_004516594.1	Scaffold1371	66770	AA	GG	1947006138
SNP_P4_159893_66817	NW_004516594.1	Scaffold1371	66817	AA	GG	1947006140
SNP_P4_159894_69749	NW_004516594.1	Scaffold1371	69749	CC	AA	1947006142
SNP_P4_159895_101128	NW_004516594.1	Scaffold1371	101128	TT	CC	1947006144
SNP_P4_159896_103854	NW_004516594.1	Scaffold1371	103854	GG	AA	1947006146
SNP_P4_159897_734	NW_004516595.1	Scaffold1372	734	AA	TT	1947006149
SNP_P4_159898_4930	NW_004516595.1	Scaffold1372	4930	GG	AA	1947006151
SNP_P4_159899_4695	NW_004516596.1	Scaffold1373	4695	GG	TT	1947006153

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_159901_989	NW_004516597.1	Scaffold1376	989	AA	GG	1947006157
SNP_P4_159902_1516	NW_004516597.1	Scaffold1376	1516	TT	CC	1947006159
SNP_P4_159903_17033	NW_004516597.1	Scaffold1376	17033	AA	TT	1947006161
SNP_P4_159904_21805	NW_004516597.1	Scaffold1376	21805	CC	TT	1947006163
SNP_P4_159905_21807	NW_004516597.1	Scaffold1376	21807	TT	GG	1947006165
SNP_P4_159906_21815	NW_004516597.1	Scaffold1376	21815	AA	GG	1947006167
SNP_P4_159907_21816	NW_004516597.1	Scaffold1376	21816	AA	CC	1947006169
SNP_P4_159908_21839	NW_004516597.1	Scaffold1376	21839	AA	GG	1947006171
SNP_P4_159909_21854	NW_004516597.1	Scaffold1376	21854	GG	AA	1947006173
SNP_P4_159910_21859	NW_004516597.1	Scaffold1376	21859	TT	CC	1947006175
SNP_P4_159911_21877	NW_004516597.1	Scaffold1376	21877	TT	CC	1947006177
SNP_P4_159912_21943	NW_004516597.1	Scaffold1376	21943	TT	CC	1947006179
SNP_P4_159913_22052	NW_004516597.1	Scaffold1376	22052	TT	GG	1947006181
SNP_P4_159914_22060	NW_004516597.1	Scaffold1376	22060	TT	GG	1947006183
SNP_P4_159915_22066	NW_004516597.1	Scaffold1376	22066	CC	TT	1947006185
SNP_P4_159916_22076	NW_004516597.1	Scaffold1376	22076	TT	GG	1947006187
SNP_P4_159917_22232	NW_004516597.1	Scaffold1376	22232	GG	AA	1947006189
SNP_P4_159918_22235	NW_004516597.1	Scaffold1376	22235	AA	GG	1947006191
SNP_P4_159919_22250	NW_004516597.1	Scaffold1376	22250	AA	GG	1947006193
SNP_P4_159920_22262	NW_004516597.1	Scaffold1376	22262	TT	CC	1947006195
SNP_P4_159921_22268	NW_004516597.1	Scaffold1376	22268	GG	AA	1947006197
SNP_P4_159922_22269	NW_004516597.1	Scaffold1376	22269	TT	AA	1947006199
SNP_P4_159923_22273	NW_004516597.1	Scaffold1376	22273	AA	GG	1947006201
SNP_P4_159924_22392	NW_004516597.1	Scaffold1376	22392	TT	GG	1947006203
SNP_P4_159925_22420	NW_004516597.1	Scaffold1376	22420	TT	AA	1947006205
SNP_P4_159926_22901	NW_004516597.1	Scaffold1376	22901	CC	TT	1947006207
SNP_P4_159927_54150	NW_004516597.1	Scaffold1376	54150	CC	AA	1947006209
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SNP_P4_159930_54252	NW_004516597.1	Scaffold1376	54252	TT	CC	1947006216
SNP_P4_159931_57796	NW_004516597.1	Scaffold1376	57796	TT	CC	1947006218
SNP_P4_159932_57803	NW_004516597.1	Scaffold1376	57803	TT	CC	1947006220
SNP_P4_159933_57806	NW_004516597.1	Scaffold1376	57806	GG	AA	1947006222
SNP_P4_159934_57809	NW_004516597.1	Scaffold1376	57809	AA	CC	1947006224
SNP_P4_159935_57819	NW_004516597.1	Scaffold1376	57819	AA	GG	1947006226
SNP_P4_159936_57835	NW_004516597.1	Scaffold1376	57835	AA	GG	1947006228
SNP_P4_159937_57839	NW_004516597.1	Scaffold1376	57839	AA	GG	1947006230
SNP_P4_159938_57845	NW_004516597.1	Scaffold1376	57845	TT	AA	1947006232
SNP_P4_159939_57853	NW_004516597.1	Scaffold1376	57853	AA	GG	1947006234
SNP_P4_159940_57870	NW_004516597.1	Scaffold1376	57870	TT	CC	1947006236
SNP_P4_159941_57872	NW_004516597.1	Scaffold1376	57872	GG	AA	1947006238

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_159943_57889	NW_004516597.1	Scaffold1376	57889	CC	AA	1947006242
SNP_P4_159944_57905	NW_004516597.1	Scaffold1376	57905	TT	CC	1947006244
SNP_P4_159945_57929	NW_004516597.1	Scaffold1376	57929	CC	TT	1947006246
SNP_P4_159946_57971	NW_004516597.1	Scaffold1376	57971	TT	CC	1947006248
SNP_P4_159947_57996	NW_004516597.1	Scaffold1376	57996	CC	TT	1947006250
SNP_P4_159948_58004	NW_004516597.1	Scaffold1376	58004	CC	TT	1947006252
SNP_P4_159949_58009	NW_004516597.1	Scaffold1376	58009	GG	AA	1947006254
SNP_P4_159950_58034	NW_004516597.1	Scaffold1376	58034	AA	GG	1947006256
SNP_P4_159951_58161	NW_004516597.1	Scaffold1376	58161	GG	AA	1947006258
SNP_P4_159952_58266	NW_004516597.1	Scaffold1376	58266	TT	AA	1947006260
SNP_P4_159953_58371	NW_004516597.1	Scaffold1376	58371	CC	AA	1947006262
SNP_P4_159954_58383	NW_004516597.1	Scaffold1376	58383	AA	GG	1947006264
SNP_P4_159955_58403	NW_004516597.1	Scaffold1376	58403	TT	CC	1947006266
SNP_P4_159956_66175	NW_004516597.1	Scaffold1376	66175	CC	TT	1947006268
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SNP_P4_159958_66273	NW_004516597.1	Scaffold1376	66273	GG	AA	1947006271
SNP_P4_159959_66274	NW_004516597.1	Scaffold1376	66274	AA	GG	1947006273
SNP_P4_159960_66466	NW_004516597.1	Scaffold1376	66466	CC	TT	1947006275
SNP_P4_159961_66493	NW_004516597.1	Scaffold1376	66493	AA	GG	1947006277
SNP_P4_159962_66655	NW_004516597.1	Scaffold1376	66655	TT	CC	1947006279
SNP_P4_159963_68993	NW_004516597.1	Scaffold1376	68993	GG	AA	1947006281
SNP_P4_159964_69130	NW_004516597.1	Scaffold1376	69130	CC	AA	1947006283
SNP_P4_159965_69397	NW_004516597.1	Scaffold1376	69397	CC	TT	1947006285
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SNP_P4_159970_69648	NW_004516597.1	Scaffold1376	69648	CC	AA	1947006293
SNP_P4_159971_1726	NW_004516600.1	Scaffold1380	1726	AA	GG	1947006295
SNP_P4_159972_1828	NW_004516600.1	Scaffold1380	1828	GG	CC	1947006297
SNP_P4_159973_1847	NW_004516600.1	Scaffold1380	1847	GG	CC	1947006299
SNP_P4_159974_1863	NW_004516600.1	Scaffold1380	1863	GG	AA	1947006301
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SNP_P4_159976_4690	NW_004516600.1	Scaffold1380	4690	TT	AA	1947006305
SNP_P4_159977_4708	NW_004516600.1	Scaffold1380	4708	TT	AA	1947006307
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SNP_P4_159979_5103	NW_004516600.1	Scaffold1380	5103	GG	AA	1947006311
SNP_P4_159980_5116	NW_004516600.1	Scaffold1380	5116	GG	TT	1947006313
SNP_P4_159981_5355	NW_004516600.1	Scaffold1380	5355	AA	CC	1947006315
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SNP_P4_159984_6505	NW_004516600.1	Scaffold1380	6505	TT	CC	1947006319
SNP_P4_159985_7134	NW_004516600.1	Scaffold1380	7134	AA	TT	1947006321

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_159987_7973	NW_004516600.1	Scaffold1380	7973	AA	TT	1947006325
SNP_P4_159988_7977	NW_004516600.1	Scaffold1380	7977	AA	GG	1947006327
SNP_P4_159989_8337	NW_004516600.1	Scaffold1380	8337	AA	GG	1947006329
SNP_P4_159990_8355	NW_004516600.1	Scaffold1380	8355	GG	AA	1947006331
SNP_P4_159991_8999	NW_004516600.1	Scaffold1380	8999	CC	AA	1947006333
SNP_P4_159992_9096	NW_004516600.1	Scaffold1380	9096	CC	TT	1947006335
SNP_P4_159993_10287	NW_004516600.1	Scaffold1380	10287	AA	GG	1947006337
SNP_P4_159994_10723	NW_004516600.1	Scaffold1380	10723	GG	AA	1947006339
SNP_P4_159995_10759	NW_004516600.1	Scaffold1380	10759	TT	GG	1947006341
SNP_P4_159996_10868	NW_004516600.1	Scaffold1380	10868	AA	GG	1947006343
SNP_P4_159997_11105	NW_004516600.1	Scaffold1380	11105	CC	AA	1947006345
SNP_P4_159998_12202	NW_004516600.1	Scaffold1380	12202	CC	TT	1947006347
SNP_P4_159999_2650	NW_004516601.1	Scaffold1382	2650	CC	TT	1947006349
SNP_P4_160000_4494	NW_004516601.1	Scaffold1382	4494	GG	AA	1947006351
SNP_P4_160001_4622	NW_004516601.1	Scaffold1382	4622	GG	AA	1947006353
SNP_P4_160002_10246	NW_004516601.1	Scaffold1382	10246	GG	AA	1947006355
SNP_P4_160004_84507	NW_004516601.1	Scaffold1382	84507	GG	AA	1947006357
SNP_P4_160005_94012	NW_004516601.1	Scaffold1382	94012	CC	AA	1947006359
SNP_P4_160006_111392	NW_004516601.1	Scaffold1382	111392	TT	GG	1947006361
SNP_P4_160007_123351	NW_004516601.1	Scaffold1382	123351	TT	CC	1947006363
SNP_P4_160008_123394	NW_004516601.1	Scaffold1382	123394	TT	CC	1947006365
SNP_P4_160009_123424	NW_004516601.1	Scaffold1382	123424	TT	CC	1947006367
SNP_P4_160010_123760	NW_004516601.1	Scaffold1382	123760	AA	TT	1947006370
SNP_P4_160011_123820	NW_004516601.1	Scaffold1382	123820	AA	TT	1947006372
SNP_P4_160012_127745	NW_004516601.1	Scaffold1382	127745	GG	TT	1947006374
SNP_P4_160013_150598	NW_004516601.1	Scaffold1382	150598	TT	GG	1947006376
SNP_P4_160014_206011	NW_004516601.1	Scaffold1382	206011	AA	CC	1947006378
SNP_P4_160015_206040	NW_004516601.1	Scaffold1382	206040	TT	CC	1947006380
SNP_P4_160016_206085	NW_004516601.1	Scaffold1382	206085	TT	CC	1947006382
SNP_P4_160017_206294	NW_004516601.1	Scaffold1382	206294	GG	TT	1947006384
SNP_P4_160018_211940	NW_004516601.1	Scaffold1382	211940	CC	AA	1947006386
SNP_P4_160019_223197	NW_004516601.1	Scaffold1382	223197	TT	AA	1947006388
SNP_P4_160020_225345	NW_004516601.1	Scaffold1382	225345	TT	GG	1947006390
SNP_P4_160021_225591	NW_004516601.1	Scaffold1382	225591	AA	GG	1947006392
SNP_P4_160023_225629	NW_004516601.1	Scaffold1382	225629	AA	TT	1947006393
SNP_P4_160024_225633	NW_004516601.1	Scaffold1382	225633	AA	GG	1947006395
SNP_P4_160025_225691	NW_004516601.1	Scaffold1382	225691	TT	AA	1947006397
SNP_P4_160026_225783	NW_004516601.1	Scaffold1382	225783	GG	AA	1947006399
SNP_P4_160027_225799	NW_004516601.1	Scaffold1382	225799	TT	CC	1947006401
SNP_P4_160028_225886	NW_004516601.1	Scaffold1382	225886	AA	GG	1947006403
SNP_P4_160029_225949	NW_004516601.1	Scaffold1382	225949	GG	TT	1947006405

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_160030_225960	NW_004516601.1	Scaffold1382	225960	CC	GG	1947006407
SNP_P4_160031_225971	NW_004516601.1	Scaffold1382	225971	CC	AA	1947006409
SNP_P4_160032_226075	NW_004516601.1	Scaffold1382	226075	AA	GG	1947006411
SNP_P4_160033_226079	NW_004516601.1	Scaffold1382	226079	GG	TT	1947006413
SNP_P4_160034_226081	NW_004516601.1	Scaffold1382	226081	AA	TT	1947006415
SNP_P4_160036_234083	NW_004516601.1	Scaffold1382	234083	TT	AA	1947006417
SNP_P4_160037_234090	NW_004516601.1	Scaffold1382	234090	CC	TT	1947006419
SNP_P4_160038_234107	NW_004516601.1	Scaffold1382	234107	TT	AA	1947006421
SNP_P4_160039_234112	NW_004516601.1	Scaffold1382	234112	TT	GG	1947006423
SNP_P4_160040_234117	NW_004516601.1	Scaffold1382	234117	CC	TT	1947006425
SNP_P4_160041_234151	NW_004516601.1	Scaffold1382	234151	TT	CC	1947006427
SNP_P4_160042_234157	NW_004516601.1	Scaffold1382	234157	TT	AA	1947006429
SNP_P4_160043_234168	NW_004516601.1	Scaffold1382	234168	CC	TT	1947006431
SNP_P4_160044_234176	NW_004516601.1	Scaffold1382	234176	AA	GG	1947006433
SNP_P4_160045_241220	NW_004516601.1	Scaffold1382	241220	AA	TT	1947006435
SNP_P4_160046_260118	NW_004516601.1	Scaffold1382	260118	CC	TT	1947006437
SNP_P4_160047_260127	NW_004516601.1	Scaffold1382	260127	CC	AA	1947006439
SNP_P4_160049_275793	NW_004516601.1	Scaffold1382	275793	CC	TT	1947006441
SNP_P4_160050_281777	NW_004516601.1	Scaffold1382	281777	TT	CC	1947006443
SNP_P4_160051_281778	NW_004516601.1	Scaffold1382	281778	TT	CC	1947006445
SNP_P4_160052_281791	NW_004516601.1	Scaffold1382	281791	TT	CC	1947006447
SNP_P4_160053_281829	NW_004516601.1	Scaffold1382	281829	TT	CC	1947006449
SNP_P4_160054_281851	NW_004516601.1	Scaffold1382	281851	CC	TT	1947006451
SNP_P4_160055_281869	NW_004516601.1	Scaffold1382	281869	AA	CC	1947006453
SNP_P4_160056_281913	NW_004516601.1	Scaffold1382	281913	CC	GG	1947006455
SNP_P4_160057_282090	NW_004516601.1	Scaffold1382	282090	TT	CC	1947006457
SNP_P4_160058_282164	NW_004516601.1	Scaffold1382	282164	CC	TT	1947006459
SNP_P4_160059_283466	NW_004516601.1	Scaffold1382	283466	AA	TT	1947006461
SNP_P4_160060_284940	NW_004516601.1	Scaffold1382	284940	GG	CC	1947006463
SNP_P4_160061_290346	NW_004516601.1	Scaffold1382	290346	CC	AA	1947006465
SNP_P4_160062_290365	NW_004516601.1	Scaffold1382	290365	CC	GG	1947006467
SNP_P4_160063_290367	NW_004516601.1	Scaffold1382	290367	CC	TT	1947006469
SNP_P4_160064_290368	NW_004516601.1	Scaffold1382	290368	CC	GG	1947006471
SNP_P4_160065_291789	NW_004516601.1	Scaffold1382	291789	AA	TT	1947006473
SNP_P4_160066_292007	NW_004516601.1	Scaffold1382	292007	CC	TT	1947006475
SNP_P4_160067_292107	NW_004516601.1	Scaffold1382	292107	AA	CC	1947006477
SNP_P4_160068_292264	NW_004516601.1	Scaffold1382	292264	TT	CC	1947006479
SNP_P4_160069_292601	NW_004516601.1	Scaffold1382	292601	TT	AA	1947006481
SNP_P4_160070_292654	NW_004516601.1	Scaffold1382	292654	CC	AA	1947006483
SNP_P4_160071_292711	NW_004516601.1	Scaffold1382	292711	GG	AA	1947006485
SNP_P4_160072_292945	NW_004516601.1	Scaffold1382	292945	CC	TT	1947006487
SNP_P4_160073_293589	NW_004516601.1	Scaffold1382	293589	AA	CC	1947006489

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_160074_293591	NW_004516601.1	Scaffold1382	293591	CC	GG	1947006491
SNP_P4_160075_293592	NW_004516601.1	Scaffold1382	293592	CC	AA	1947006493
SNP_P4_160076_293801	NW_004516601.1	Scaffold1382	293801	GG	AA	1947006495
SNP_P4_160077_293945	NW_004516601.1	Scaffold1382	293945	TT	AA	1947006497
SNP_P4_160078_293960	NW_004516601.1	Scaffold1382	293960	TT	AA	1947006499
SNP_P4_160079_294103	NW_004516601.1	Scaffold1382	294103	CC	TT	1947006501
SNP_P4_160080_294110	NW_004516601.1	Scaffold1382	294110	CC	AA	1947006503
SNP_P4_160081_294170	NW_004516601.1	Scaffold1382	294170	CC	TT	1947006505
SNP_P4_160082_294189	NW_004516601.1	Scaffold1382	294189	TT	AA	1947006507
SNP_P4_160083_294228	NW_004516601.1	Scaffold1382	294228	AA	GG	1947006509
SNP_P4_160084_294309	NW_004516601.1	Scaffold1382	294309	GG	TT	1947006511
SNP_P4_160086_295102	NW_004516601.1	Scaffold1382	295102	CC	GG	1947006513
SNP_P4_160087_295256	NW_004516601.1	Scaffold1382	295256	TT	AA	1947006515
SNP_P4_160088_295348	NW_004516601.1	Scaffold1382	295348	AA	CC	1947006517
SNP_P4_160089_295406	NW_004516601.1	Scaffold1382	295406	CC	GG	1947006519
SNP_P4_160090_295415	NW_004516601.1	Scaffold1382	295415	CC	GG	1947006521
SNP_P4_160091_295424	NW_004516601.1	Scaffold1382	295424	GG	AA	1947006523
SNP_P4_160092_295455	NW_004516601.1	Scaffold1382	295455	GG	TT	1947006525
SNP_P4_160093_295504	NW_004516601.1	Scaffold1382	295504	GG	CC	1947006527
SNP_P4_160094_295505	NW_004516601.1	Scaffold1382	295505	AA	GG	1947006529
SNP_P4_160095_295610	NW_004516601.1	Scaffold1382	295610	GG	TT	1947006531
SNP_P4_160096_295693	NW_004516601.1	Scaffold1382	295693	AA	GG	1947006533
SNP_P4_160097_295725	NW_004516601.1	Scaffold1382	295725	GG	AA	1947006535
SNP_P4_160098_295849	NW_004516601.1	Scaffold1382	295849	TT	CC	1947006537
SNP_P4_160100_295885	NW_004516601.1	Scaffold1382	295885	GG	TT	1947006539
SNP_P4_160101_295887	NW_004516601.1	Scaffold1382	295887	CC	GG	1947006541
SNP_P4_160102_295961	NW_004516601.1	Scaffold1382	295961	AA	TT	1947006543
SNP_P4_160104_296028	NW_004516601.1	Scaffold1382	296028	GG	TT	1947006545
SNP_P4_160105_296036	NW_004516601.1	Scaffold1382	296036	TT	CC	1947006547
SNP_P4_160106_296042	NW_004516601.1	Scaffold1382	296042	GG	TT	1947006549
SNP_P4_160107_296043	NW_004516601.1	Scaffold1382	296043	AA	GG	1947006551
SNP_P4_160108_296044	NW_004516601.1	Scaffold1382	296044	TT	CC	1947006553
SNP_P4_160109_296079	NW_004516601.1	Scaffold1382	296079	AA	TT	1947006555
SNP_P4_160110_296156	NW_004516601.1	Scaffold1382	296156	CC	TT	1947006557
SNP_P4_160111_296177	NW_004516601.1	Scaffold1382	296177	AA	TT	1947006559
SNP_P4_160112_296252	NW_004516601.1	Scaffold1382	296252	AA	TT	1947006561
SNP_P4_160113_296357	NW_004516601.1	Scaffold1382	296357	AA	TT	1947006563
SNP_P4_160114_296377	NW_004516601.1	Scaffold1382	296377	CC	GG	1947006565
SNP_P4_160115_296436	NW_004516601.1	Scaffold1382	296436	CC	TT	1947006567
SNP_P4_160116_296439	NW_004516601.1	Scaffold1382	296439	CC	GG	1947006569
SNP_P4_160117_296496	NW_004516601.1	Scaffold1382	296496	TT	CC	1947006571
SNP_P4_160118_296497	NW_004516601.1	Scaffold1382	296497	GG	TT	1947006573

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_160120_296544	NW_004516601.1	Scaffold1382	296544	TT	CC	1947006577
SNP_P4_160121_296583	NW_004516601.1	Scaffold1382	296583	TT	CC	1947006579
SNP_P4_160122_296722	NW_004516601.1	Scaffold1382	296722	CC	GG	1947006581
SNP_P4_160123_296728	NW_004516601.1	Scaffold1382	296728	TT	AA	1947006583
SNP_P4_160124_296735	NW_004516601.1	Scaffold1382	296735	TT	CC	1947006585
SNP_P4_160125_296763	NW_004516601.1	Scaffold1382	296763	AA	GG	1947006587
SNP_P4_160126_296850	NW_004516601.1	Scaffold1382	296850	CC	GG	1947006589
SNP_P4_160127_296858	NW_004516601.1	Scaffold1382	296858	AA	GG	1947006591
SNP_P4_160128_296900	NW_004516601.1	Scaffold1382	296900	TT	CC	1947006593
SNP_P4_160129_296902	NW_004516601.1	Scaffold1382	296902	TT	AA	1947006595
SNP_P4_160130_297139	NW_004516601.1	Scaffold1382	297139	CC	GG	1947006597
SNP_P4_160131_300493	NW_004516601.1	Scaffold1382	300493	TT	CC	1947006599
SNP_P4_160133_305440	NW_004516601.1	Scaffold1382	305440	TT	GG	1947006601
SNP_P4_160134_305650	NW_004516601.1	Scaffold1382	305650	TT	CC	1947006603
SNP_P4_160135_317110	NW_004516601.1	Scaffold1382	317110	AA	CC	1947006605
SNP_P4_160136_317135	NW_004516601.1	Scaffold1382	317135	TT	AA	1947006607
SNP_P4_160137_317267	NW_004516601.1	Scaffold1382	317267	GG	AA	1947006609
SNP_P4_160138_317291	NW_004516601.1	Scaffold1382	317291	GG	AA	1947006611
SNP_P4_160139_317598	NW_004516601.1	Scaffold1382	317598	TT	CC	1947006613
SNP_P4_160140_317602	NW_004516601.1	Scaffold1382	317602	TT	GG	1947006615
SNP_P4_160141_332505	NW_004516601.1	Scaffold1382	332505	TT	AA	1947006617
SNP_P4_160142_333117	NW_004516601.1	Scaffold1382	333117	CC	AA	1947006619
SNP_P4_160143_339016	NW_004516601.1	Scaffold1382	339016	TT	CC	1947006621
SNP_P4_160144_339063	NW_004516601.1	Scaffold1382	339063	TT	AA	1947006623
SNP_P4_160145_339369	NW_004516601.1	Scaffold1382	339369	TT	GG	1947006625
SNP_P4_160146_339472	NW_004516601.1	Scaffold1382	339472	AA	CC	1947006627
SNP_P4_160147_351204	NW_004516601.1	Scaffold1382	351204	TT	GG	1947006629
SNP_P4_160148_354520	NW_004516601.1	Scaffold1382	354520	TT	AA	1947006631
SNP_P4_160149_370226	NW_004516601.1	Scaffold1382	370226	CC	AA	1947006633
SNP_P4_160150_371661	NW_004516601.1	Scaffold1382	371661	GG	TT	1947006635
SNP_P4_160151_373990	NW_004516601.1	Scaffold1382	373990	GG	TT	1947006637
SNP_P4_160152_375254	NW_004516601.1	Scaffold1382	375254	AA	CC	1947006639
SNP_P4_160153_375335	NW_004516601.1	Scaffold1382	375335	GG	AA	1947006641
SNP_P4_160154_377612	NW_004516601.1	Scaffold1382	377612	AA	GG	1947006644
SNP_P4_160155_396011	NW_004516601.1	Scaffold1382	396011	AA	GG	1947006646
SNP_P4_160156_397082	NW_004516601.1	Scaffold1382	397082	CC	AA	1947006648
SNP_P4_160157_397357	NW_004516601.1	Scaffold1382	397357	AA	GG	1947006650
SNP_P4_160158_397376	NW_004516601.1	Scaffold1382	397376	TT	AA	1947006652
SNP_P4_160159_397390	NW_004516601.1	Scaffold1382	397390	TT	CC	1947006654
SNP_P4_160160_397395	NW_004516601.1	Scaffold1382	397395	TT	GG	1947006656
SNP_P4_160161_397407	NW_004516601.1	Scaffold1382	397407	GG	AA	1947006658

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_160163_397479	NW_004516601.1	Scaffold1382	397479	TT	CC	1947006662
SNP_P4_160164_414207	NW_004516601.1	Scaffold1382	414207	AA	GG	1947006664
SNP_P4_160165_414485	NW_004516601.1	Scaffold1382	414485	AA	GG	1947006666
SNP_P4_160166_414604	NW_004516601.1	Scaffold1382	414604	TT	CC	1947006668
SNP_P4_160167_414617	NW_004516601.1	Scaffold1382	414617	CC	TT	1947006670
SNP_P4_160168_417499	NW_004516601.1	Scaffold1382	417499	TT	AA	1947006672
SNP_P4_160169_417684	NW_004516601.1	Scaffold1382	417684	AA	CC	1947006673
SNP_P4_160170_424348	NW_004516601.1	Scaffold1382	424348	AA	GG	1947006675
SNP_P4_160171_424477	NW_004516601.1	Scaffold1382	424477	AA	GG	1947006677
SNP_P4_160172_430721	NW_004516601.1	Scaffold1382	430721	CC	AA	1947006679
SNP_P4_160173_433287	NW_004516601.1	Scaffold1382	433287	TT	AA	1947006681
SNP_P4_160174_433833	NW_004516601.1	Scaffold1382	433833	AA	TT	1947006683
SNP_P4_160175_436939	NW_004516601.1	Scaffold1382	436939	CC	TT	1947006686
SNP_P4_160176_442221	NW_004516601.1	Scaffold1382	442221	AA	GG	1947006688
SNP_P4_160177_442407	NW_004516601.1	Scaffold1382	442407	AA	GG	1947006690
SNP_P4_160178_442423	NW_004516601.1	Scaffold1382	442423	CC	AA	1947006692
SNP_P4_160179_442436	NW_004516601.1	Scaffold1382	442436	CC	TT	1947006694
SNP_P4_160180_449027	NW_004516601.1	Scaffold1382	449027	AA	GG	1947006696
SNP_P4_160181_449069	NW_004516601.1	Scaffold1382	449069	CC	TT	1947006698
SNP_P4_160182_449413	NW_004516601.1	Scaffold1382	449413	TT	AA	1947006700
SNP_P4_160183_449426	NW_004516601.1	Scaffold1382	449426	AA	TT	1947006702
SNP_P4_160184_450595	NW_004516601.1	Scaffold1382	450595	GG	CC	1947006704
SNP_P4_160185_456460	NW_004516601.1	Scaffold1382	456460	AA	TT	1947006706
SNP_P4_160186_457020	NW_004516601.1	Scaffold1382	457020	TT	CC	1947006708
SNP_P4_160187_471720	NW_004516601.1	Scaffold1382	471720	TT	AA	1947006710
SNP_P4_160190_479167	NW_004516601.1	Scaffold1382	479167	TT	AA	1947006712
SNP_P4_160191_479171	NW_004516601.1	Scaffold1382	479171	CC	AA	1947006714
SNP_P4_160192_526227	NW_004516601.1	Scaffold1382	526227	GG	TT	1947006716
SNP_P4_160193_526517	NW_004516601.1	Scaffold1382	526517	CC	TT	1947006718
SNP_P4_160194_526519	NW_004516601.1	Scaffold1382	526519	CC	TT	1947006720
SNP_P4_160195_526539	NW_004516601.1	Scaffold1382	526539	CC	TT	1947006722
SNP_P4_160196_526553	NW_004516601.1	Scaffold1382	526553	TT	GG	1947006724
SNP_P4_160197_526577	NW_004516601.1	Scaffold1382	526577	CC	GG	1947006726
SNP_P4_160198_526610	NW_004516601.1	Scaffold1382	526610	GG	TT	1947006728
SNP_P4_160199_526614	NW_004516601.1	Scaffold1382	526614	TT	GG	1947006730
SNP_P4_160200_526616	NW_004516601.1	Scaffold1382	526616	AA	TT	1947006732
SNP_P4_160201_526617	NW_004516601.1	Scaffold1382	526617	TT	CC	1947006734
SNP_P4_160202_526702	NW_004516601.1	Scaffold1382	526702	CC	TT	1947006736
SNP_P4_160203_526716	NW_004516601.1	Scaffold1382	526716	TT	AA	1947006738
SNP_P4_160204_526726	NW_004516601.1	Scaffold1382	526726	CC	AA	1947006740
SNP_P4_160205_526772	NW_004516601.1	Scaffold1382	526772	CC	TT	1947006742

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_160207_535522	NW_004516601.1	Scaffold1382	535522	CC	AA	1947006746
SNP_P4_160208_535543	NW_004516601.1	Scaffold1382	535543	AA	TT	1947006748
SNP_P4_160209_535681	NW_004516601.1	Scaffold1382	535681	AA	TT	1947006750
SNP_P4_160210_536398	NW_004516601.1	Scaffold1382	536398	TT	CC	1947006751
SNP_P4_160211_536517	NW_004516601.1	Scaffold1382	536517	AA	GG	1947006753
SNP_P4_160212_536525	NW_004516601.1	Scaffold1382	536525	GG	TT	1947006755
SNP_P4_160213_536528	NW_004516601.1	Scaffold1382	536528	AA	GG	1947006757
SNP_P4_160214_536531	NW_004516601.1	Scaffold1382	536531	AA	CC	1947006759
SNP_P4_160215_536640	NW_004516601.1	Scaffold1382	536640	CC	TT	1947006761
SNP_P4_160216_536701	NW_004516601.1	Scaffold1382	536701	CC	AA	1947006763
SNP_P4_160217_536742	NW_004516601.1	Scaffold1382	536742	AA	TT	1947006765
SNP_P4_160218_536761	NW_004516601.1	Scaffold1382	536761	TT	GG	1947006767
SNP_P4_160219_536769	NW_004516601.1	Scaffold1382	536769	GG	CC	1947006769
SNP_P4_160220_536839	NW_004516601.1	Scaffold1382	536839	AA	GG	1947006771
SNP_P4_160221_536952	NW_004516601.1	Scaffold1382	536952	CC	GG	1947006773
SNP_P4_160222_536961	NW_004516601.1	Scaffold1382	536961	TT	GG	1947006775
SNP_P4_160223_537025	NW_004516601.1	Scaffold1382	537025	CC	AA	1947006777
SNP_P4_160224_537062	NW_004516601.1	Scaffold1382	537062	TT	GG	1947006779
SNP_P4_160225_538776	NW_004516601.1	Scaffold1382	538776	CC	TT	1947006781
SNP_P4_160226_539156	NW_004516601.1	Scaffold1382	539156	CC	TT	1947006783
SNP_P4_160227_539174	NW_004516601.1	Scaffold1382	539174	AA	GG	1947006784
SNP_P4_160228_546029	NW_004516601.1	Scaffold1382	546029	GG	CC	1947006786
SNP_P4_160229_546046	NW_004516601.1	Scaffold1382	546046	CC	TT	1947006788
SNP_P4_160230_546047	NW_004516601.1	Scaffold1382	546047	AA	TT	1947006790
SNP_P4_160231_550331	NW_004516601.1	Scaffold1382	550331	GG	CC	1947006792
SNP_P4_160233_4394	NW_004516603.1	Scaffold1386	4394	CC	TT	1947006794
SNP_P4_160234_4432	NW_004516603.1	Scaffold1386	4432	AA	CC	1947006796
SNP_P4_160235_7440	NW_004516603.1	Scaffold1386	7440	CC	TT	1947006798
SNP_P4_160236_7500	NW_004516603.1	Scaffold1386	7500	CC	AA	1947006800
SNP_P4_160237_7822	NW_004516603.1	Scaffold1386	7822	AA	TT	1947006802
SNP_P4_160238_7829	NW_004516603.1	Scaffold1386	7829	TT	AA	1947006804
SNP_P4_160239_10876	NW_004516603.1	Scaffold1386	10876	TT	AA	1947006806
SNP_P4_160240_13392	NW_004516603.1	Scaffold1386	13392	AA	GG	1947006808
SNP_P4_160241_13516	NW_004516603.1	Scaffold1386	13516	GG	TT	1947006810
SNP_P4_160242_13590	NW_004516603.1	Scaffold1386	13590	GG	AA	1947006812
SNP_P4_160243_13604	NW_004516603.1	Scaffold1386	13604	CC	TT	1947006814
SNP_P4_160245_13659	NW_004516603.1	Scaffold1386	13659	TT	CC	1947006816
SNP_P4_160246_13671	NW_004516603.1	Scaffold1386	13671	GG	AA	1947006818
SNP_P4_160247_13699	NW_004516603.1	Scaffold1386	13699	GG	AA	1947006820
SNP_P4_160248_13707	NW_004516603.1	Scaffold1386	13707	AA	TT	1947006822
SNP_P4_160249_13710	NW_004516603.1	Scaffold1386	13710	TT	AA	1947006824

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_160251_13895	NW_004516603.1	Scaffold1386	13895	AA	GG	1947006828
SNP_P4_160252_13907	NW_004516603.1	Scaffold1386	13907	AA	GG	1947006830
SNP_P4_160253_14824	NW_004516603.1	Scaffold1386	14824	TT	CC	1947006832
SNP_P4_160254_14843	NW_004516603.1	Scaffold1386	14843	CC	TT	1947006834
SNP_P4_160256_22236	NW_004516603.1	Scaffold1386	22236	AA	GG	1947006836
SNP_P4_160257_38507	NW_004516603.1	Scaffold1386	38507	AA	GG	1947006838
SNP_P4_160258_38825	NW_004516603.1	Scaffold1386	38825	AA	GG	1947006840
SNP_P4_160259_38827	NW_004516603.1	Scaffold1386	38827	TT	AA	1947006842
SNP_P4_160260_38861	NW_004516603.1	Scaffold1386	38861	AA	TT	1947006844
SNP_P4_160261_38862	NW_004516603.1	Scaffold1386	38862	GG	TT	1947006846
SNP_P4_160262_51987	NW_004516603.1	Scaffold1386	51987	GG	TT	1947006848
SNP_P4_160263_88920	NW_004516603.1	Scaffold1386	88920	TT	CC	1947006850
SNP_P4_160264_88946	NW_004516603.1	Scaffold1386	88946	TT	CC	1947006852
SNP_P4_160265_2633	NW_004516606.1	Scaffold1390	2633	AA	GG	1947006854
SNP_P4_160266_8562	NW_004516606.1	Scaffold1390	8562	CC	TT	1947006856
SNP_P4_160267_8573	NW_004516606.1	Scaffold1390	8573	TT	CC	1947006858
SNP_P4_160268_10301	NW_004516606.1	Scaffold1390	10301	GG	AA	1947006860
SNP_P4_160269_29161	NW_004516606.1	Scaffold1390	29161	CC	AA	1947006862
SNP_P4_160270_29170	NW_004516606.1	Scaffold1390	29170	AA	TT	1947006864
SNP_P4_160271_29180	NW_004516606.1	Scaffold1390	29180	CC	TT	1947006866
SNP_P4_160272_29181	NW_004516606.1	Scaffold1390	29181	CC	AA	1947006868
SNP_P4_160273_29183	NW_004516606.1	Scaffold1390	29183	TT	AA	1947006870
SNP_P4_160274_29185	NW_004516606.1	Scaffold1390	29185	AA	GG	1947006872
SNP_P4_160275_29187	NW_004516606.1	Scaffold1390	29187	TT	GG	1947006874
SNP_P4_160276_30811	NW_004516606.1	Scaffold1390	30811	AA	TT	1947006876
SNP_P4_160277_30813	NW_004516606.1	Scaffold1390	30813	TT	CC	1947006878
SNP_P4_160279_38493	NW_004516606.1	Scaffold1390	38493	AA	GG	1947006880
SNP_P4_160280_38495	NW_004516606.1	Scaffold1390	38495	GG	TT	1947006882
SNP_P4_160281_45417	NW_004516606.1	Scaffold1390	45417	CC	GG	1947006884
SNP_P4_160282_55736	NW_004516606.1	Scaffold1390	55736	GG	CC	1947006886
SNP_P4_160283_55753	NW_004516606.1	Scaffold1390	55753	CC	GG	1947006888
SNP_P4_160284_58667	NW_004516606.1	Scaffold1390	58667	AA	TT	1947006890
SNP_P4_160285_58723	NW_004516606.1	Scaffold1390	58723	CC	TT	1947006892
SNP_P4_160286_85848	NW_004516606.1	Scaffold1390	85848	AA	TT	1947006894
SNP_P4_160287_85851	NW_004516606.1	Scaffold1390	85851	GG	AA	1947006895
SNP_P4_160288_85852	NW_004516606.1	Scaffold1390	85852	GG	AA	1947006897
SNP_P4_160289_86338	NW_004516606.1	Scaffold1390	86338	TT	AA	1947006899
SNP_P4_160290_86342	NW_004516606.1	Scaffold1390	86342	AA	TT	1947006901
SNP_P4_160291_86358	NW_004516606.1	Scaffold1390	86358	CC	GG	1947006903
SNP_P4_160292_86362	NW_004516606.1	Scaffold1390	86362	TT	CC	1947006905
SNP_P4_160293_93374	NW_004516606.1	Scaffold1390	93374	TT	CC	1947006907

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_160295_107256	NW_004516606.1	Scaffold1390	107256	AA	GG	1947006911
SNP_P4_160296_108645	NW_004516606.1	Scaffold1390	108645	CC	TT	1947006913
SNP_P4_160298_2670	NW_004516609.1	Scaffold1394	2670	TT	AA	1947006915
SNP_P4_160299_3051	NW_004516609.1	Scaffold1394	3051	GG	CC	1947006917
SNP_P4_160300_3242	NW_004516609.1	Scaffold1394	3242	TT	CC	1947006919
SNP_P4_160301_5242	NW_004516609.1	Scaffold1394	5242	TT	CC	1947006921
SNP_P4_160302_5475	NW_004516609.1	Scaffold1394	5475	AA	GG	1947006923
SNP_P4_160303_5499	NW_004516609.1	Scaffold1394	5499	TT	CC	1947006925
SNP_P4_160304_5504	NW_004516609.1	Scaffold1394	5504	AA	CC	1947006927
SNP_P4_160305_5519	NW_004516609.1	Scaffold1394	5519	TT	CC	1947006929
SNP_P4_160306_5542	NW_004516609.1	Scaffold1394	5542	AA	GG	1947006931
SNP_P4_160307_7879	NW_004516609.1	Scaffold1394	7879	AA	CC	1947006933
SNP_P4_160308_7890	NW_004516609.1	Scaffold1394	7890	CC	TT	1947006935
SNP_P4_160309_8371	NW_004516609.1	Scaffold1394	8371	TT	AA	1947006937
SNP_P4_160310_12007	NW_004516609.1	Scaffold1394	12007	TT	CC	1947006939
SNP_P4_160311_12130	NW_004516609.1	Scaffold1394	12130	CC	TT	1947006941
SNP_P4_160312_12219	NW_004516609.1	Scaffold1394	12219	GG	AA	1947006943
SNP_P4_160313_12223	NW_004516609.1	Scaffold1394	12223	CC	AA	1947006945
SNP_P4_160314_12374	NW_004516609.1	Scaffold1394	12374	AA	GG	1947006946
SNP_P4_160315_12415	NW_004516609.1	Scaffold1394	12415	AA	TT	1947006948
SNP_P4_160316_12440	NW_004516609.1	Scaffold1394	12440	TT	CC	1947006950
SNP_P4_160317_12497	NW_004516609.1	Scaffold1394	12497	GG	TT	1947006952
SNP_P4_160318_12510	NW_004516609.1	Scaffold1394	12510	GG	AA	1947006954
SNP_P4_160319_12578	NW_004516609.1	Scaffold1394	12578	TT	CC	1947006956
SNP_P4_160320_17868	NW_004516609.1	Scaffold1394	17868	GG	AA	1947006958
SNP_P4_160321_22473	NW_004516609.1	Scaffold1394	22473	CC	TT	1947006960
SNP_P4_160322_25567	NW_004516609.1	Scaffold1394	25567	GG	AA	1947006962
SNP_P4_160323_25622	NW_004516609.1	Scaffold1394	25622	AA	GG	1947006964
SNP_P4_160324_25989	NW_004516609.1	Scaffold1394	25989	TT	CC	1947006966
SNP_P4_160325_29065	NW_004516609.1	Scaffold1394	29065	TT	AA	1947006968
SNP_P4_160326_30679	NW_004516609.1	Scaffold1394	30679	AA	GG	1947006970
SNP_P4_160327_30682	NW_004516609.1	Scaffold1394	30682	AA	GG	1947006972
SNP_P4_160328_30686	NW_004516609.1	Scaffold1394	30686	TT	AA	1947006974
SNP_P4_160329_31851	NW_004516609.1	Scaffold1394	31851	TT	CC	1947006976
SNP_P4_160330_1489	NW_004516612.1	Scaffold1399	1489	AA	CC	1947006978
SNP_P4_160331_1504	NW_004516612.1	Scaffold1399	1504	CC	TT	1947006980
SNP_P4_160332_2055	NW_004516612.1	Scaffold1399	2055	TT	AA	1947006982
SNP_P4_160333_2081	NW_004516612.1	Scaffold1399	2081	TT	CC	1947006984
SNP_P4_160334_5853	NW_004516612.1	Scaffold1399	5853	GG	CC	1947006986
SNP_P4_160335_5877	NW_004516612.1	Scaffold1399	5877	TT	GG	1947006988
SNP_P4_160336_5979	NW_004516612.1	Scaffold1399	5979	CC	TT	1947006990

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_160339_19032	NW_004516612.1	Scaffold1399	19032	CC	TT	1947006996
SNP_P4_160340_19331	NW_004516612.1	Scaffold1399	19331	TT	AA	1947006998
SNP_P4_160341_19377	NW_004516612.1	Scaffold1399	19377	CC	AA	1947007000
SNP_P4_160342_154	NW_004516613.1	Scaffold1400	154	TT	GG	1947007002
SNP_P4_160343_2557	NW_004516614.1	Scaffold1401	2557	TT	CC	1947007004
SNP_P4_160344_2674	NW_004516614.1	Scaffold1401	2674	TT	GG	1947007006
SNP_P4_160345_2698	NW_004516614.1	Scaffold1401	2698	TT	AA	1947007008
SNP_P4_160346_2835	NW_004516614.1	Scaffold1401	2835	AA	TT	1947007010
SNP_P4_160347_2901	NW_004516614.1	Scaffold1401	2901	GG	CC	1947007012
SNP_P4_160348_2904	NW_004516614.1	Scaffold1401	2904	TT	AA	1947007014
SNP_P4_160349_2992	NW_004516614.1	Scaffold1401	2992	CC	TT	1947007016
SNP_P4_160350_3005	NW_004516614.1	Scaffold1401	3005	GG	AA	1947007018
SNP_P4_160351_19860	NW_004516614.1	Scaffold1401	19860	GG	AA	1947007019
SNP_P4_160352_25557	NW_004516614.1	Scaffold1401	25557	AA	GG	1947007021
SNP_P4_160353_25673	NW_004516614.1	Scaffold1401	25673	TT	CC	1947007023
SNP_P4_160354_25858	NW_004516614.1	Scaffold1401	25858	AA	TT	1947007025
SNP_P4_160355_25924	NW_004516614.1	Scaffold1401	25924	TT	CC	1947007027
SNP_P4_160356_36806	NW_004516614.1	Scaffold1401	36806	AA	CC	1947007029
SNP_P4_160357_39144	NW_004516614.1	Scaffold1401	39144	TT	AA	1947007031
SNP_P4_160358_53888	NW_004516614.1	Scaffold1401	53888	CC	TT	1947007033
SNP_P4_160359_53895	NW_004516614.1	Scaffold1401	53895	AA	GG	1947007035
SNP_P4_160360_63125	NW_004516614.1	Scaffold1401	63125	GG	TT	1947007037
SNP_P4_160361_67483	NW_004516614.1	Scaffold1401	67483	CC	GG	1947007039
SNP_P4_160362_67713	NW_004516614.1	Scaffold1401	67713	TT	CC	1947007041
SNP_P4_160363_69857	NW_004516614.1	Scaffold1401	69857	CC	TT	1947007043
SNP_P4_160364_70792	NW_004516614.1	Scaffold1401	70792	GG	TT	1947007045
SNP_P4_160365_70853	NW_004516614.1	Scaffold1401	70853	TT	CC	1947007047
SNP_P4_160366_70952	NW_004516614.1	Scaffold1401	70952	TT	CC	1947007049
SNP_P4_160367_71066	NW_004516614.1	Scaffold1401	71066	TT	CC	1947007051
SNP_P4_160368_71108	NW_004516614.1	Scaffold1401	71108	TT	GG	1947007053
SNP_P4_160369_71193	NW_004516614.1	Scaffold1401	71193	TT	CC	1947007055
SNP_P4_160370_71374	NW_004516614.1	Scaffold1401	71374	AA	GG	1947007057
SNP_P4_160371_71485	NW_004516614.1	Scaffold1401	71485	CC	TT	1947007059
SNP_P4_160372_71613	NW_004516614.1	Scaffold1401	71613	AA	GG	1947007061
SNP_P4_160373_87793	NW_004516614.1	Scaffold1401	87793	GG	CC	1947007063
SNP_P4_160375_840	NW_004516615.1	Scaffold1403	840	GG	TT	1947007065
SNP_P4_160376_862	NW_004516615.1	Scaffold1403	862	CC	TT	1947007067
SNP_P4_160377_889	NW_004516615.1	Scaffold1403	889	TT	AA	1947007068
SNP_P4_160378_961	NW_004516615.1	Scaffold1403	961	AA	GG	1947007070
SNP_P4_160380_2965	NW_004516617.1	Scaffold1405	2965	CC	AA	1947007072

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_160382_624	NW_004516619.1	Scaffold1408	624	AA	GG	1947007076
SNP_P4_160383_2211	NW_004516619.1	Scaffold1408	2211	TT	CC	1947007078
SNP_P4_160384_2415	NW_004516619.1	Scaffold1408	2415	TT	GG	1947007080
SNP_P4_160385_2699	NW_004516619.1	Scaffold1408	2699	AA	GG	1947007082
SNP_P4_160386_2874	NW_004516619.1	Scaffold1408	2874	GG	TT	1947007084
SNP_P4_160387_2975	NW_004516619.1	Scaffold1408	2975	AA	GG	1947007086
SNP_P4_160388_4424	NW_004516619.1	Scaffold1408	4424	GG	TT	1947007088
SNP_P4_160389_4692	NW_004516619.1	Scaffold1408	4692	GG	TT	1947007090
SNP_P4_160390_4933	NW_004516619.1	Scaffold1408	4933	AA	GG	1947007092
SNP_P4_160391_5273	NW_004516619.1	Scaffold1408	5273	AA	GG	1947007094
SNP_P4_160392_5330	NW_004516619.1	Scaffold1408	5330	AA	TT	1947007096
SNP_P4_160393_5412	NW_004516619.1	Scaffold1408	5412	GG	AA	1947007098
SNP_P4_160394_5505	NW_004516619.1	Scaffold1408	5505	TT	CC	1947007100
SNP_P4_160395_5949	NW_004516619.1	Scaffold1408	5949	GG	TT	1947007102
SNP_P4_160397_6239	NW_004516619.1	Scaffold1408	6239	GG	TT	1947007104
SNP_P4_160398_6548	NW_004516619.1	Scaffold1408	6548	GG	TT	1947007106
SNP_P4_160399_6549	NW_004516619.1	Scaffold1408	6549	TT	GG	1947007108
SNP_P4_160400_6562	NW_004516619.1	Scaffold1408	6562	GG	TT	1947007110
SNP_P4_160401_6591	NW_004516619.1	Scaffold1408	6591	GG	AA	1947007112
SNP_P4_160402_6643	NW_004516619.1	Scaffold1408	6643	AA	CC	1947007114
SNP_P4_160403_6686	NW_004516619.1	Scaffold1408	6686	CC	GG	1947007116
SNP_P4_160404_6705	NW_004516619.1	Scaffold1408	6705	CC	AA	1947007118
SNP_P4_160405_6781	NW_004516619.1	Scaffold1408	6781	AA	GG	1947007120
SNP_P4_160406_6991	NW_004516619.1	Scaffold1408	6991	TT	AA	1947007122
SNP_P4_160407_7213	NW_004516619.1	Scaffold1408	7213	GG	TT	1947007124
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SNP_P4_160409_7670	NW_004516619.1	Scaffold1408	7670	AA	TT	1947007128
SNP_P4_160410_7671	NW_004516619.1	Scaffold1408	7671	TT	GG	1947007130
SNP_P4_160412_7919	NW_004516619.1	Scaffold1408	7919	TT	AA	1947007132
SNP_P4_160413_9407	NW_004516619.1	Scaffold1408	9407	AA	CC	1947007134
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SNP_P4_160415_10022	NW_004516619.1	Scaffold1408	10022	AA	TT	1947007138
SNP_P4_160416_10031	NW_004516619.1	Scaffold1408	10031	GG	CC	1947007140
SNP_P4_160417_10044	NW_004516619.1	Scaffold1408	10044	TT	CC	1947007142
SNP_P4_160418_10131	NW_004516619.1	Scaffold1408	10131	AA	GG	1947007144
SNP_P4_160419_10449	NW_004516619.1	Scaffold1408	10449	TT	AA	1947007146
SNP_P4_160420_10610	NW_004516619.1	Scaffold1408	10610	GG	AA	1947007148
SNP_P4_160421_10668	NW_004516619.1	Scaffold1408	10668	TT	GG	1947007150
SNP_P4_160422_10795	NW_004516619.1	Scaffold1408	10795	TT	CC	1947007151
SNP_P4_160423_10937	NW_004516619.1	Scaffold1408	10937	GG	TT	1947007152
SNP_P4_160424_11010	NW_004516619.1	Scaffold1408	11010	AA	TT	1947007153

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_160427_11318	NW_004516619.1	Scaffold1408	11318	CC	TT	1947007155
SNP_P4_160428_11804	NW_004516619.1	Scaffold1408	11804	CC	AA	1947007156
SNP_P4_160430_11847	NW_004516619.1	Scaffold1408	11847	AA	TT	1947007157
SNP_P4_160431_11852	NW_004516619.1	Scaffold1408	11852	AA	GG	1947007159
SNP_P4_160432_12084	NW_004516619.1	Scaffold1408	12084	CC	TT	1947007161
SNP_P4_160433_12140	NW_004516619.1	Scaffold1408	12140	CC	GG	1947007163
SNP_P4_160434_12174	NW_004516619.1	Scaffold1408	12174	AA	TT	1947007165
SNP_P4_160435_12407	NW_004516619.1	Scaffold1408	12407	AA	GG	1947007167
SNP_P4_160436_14281	NW_004516619.1	Scaffold1408	14281	GG	TT	1947007169
SNP_P4_160437_16311	NW_004516619.1	Scaffold1408	16311	TT	CC	1947007171
SNP_P4_160439_16486	NW_004516619.1	Scaffold1408	16486	AA	GG	1947007173
SNP_P4_160440_16513	NW_004516619.1	Scaffold1408	16513	CC	TT	1947007175
SNP_P4_160441_16766	NW_004516619.1	Scaffold1408	16766	AA	GG	1947007177
SNP_P4_160442_16945	NW_004516619.1	Scaffold1408	16945	TT	GG	1947007179
SNP_P4_160443_18760	NW_004516619.1	Scaffold1408	18760	TT	AA	1947007181
SNP_P4_160444_18836	NW_004516619.1	Scaffold1408	18836	TT	AA	1947007183
SNP_P4_160445_19963	NW_004516619.1	Scaffold1408	19963	AA	CC	1947007185
SNP_P4_160446_20316	NW_004516619.1	Scaffold1408	20316	CC	AA	1947007187
SNP_P4_160447_20385	NW_004516619.1	Scaffold1408	20385	AA	TT	1947007189
SNP_P4_160448_20442	NW_004516619.1	Scaffold1408	20442	TT	AA	1947007191
SNP_P4_160449_20458	NW_004516619.1	Scaffold1408	20458	TT	GG	1947007193
SNP_P4_160451_20829	NW_004516619.1	Scaffold1408	20829	CC	TT	1947007194
SNP_P4_160452_23668	NW_004516619.1	Scaffold1408	23668	GG	AA	1947007196
SNP_P4_160453_23814	NW_004516619.1	Scaffold1408	23814	GG	AA	1947007198
SNP_P4_160454_23819	NW_004516619.1	Scaffold1408	23819	CC	TT	1947007200
SNP_P4_160455_23822	NW_004516619.1	Scaffold1408	23822	TT	CC	1947007202
SNP_P4_160456_23848	NW_004516619.1	Scaffold1408	23848	TT	AA	1947007204
SNP_P4_160457_23870	NW_004516619.1	Scaffold1408	23870	GG	TT	1947007206
SNP_P4_160458_23930	NW_004516619.1	Scaffold1408	23930	GG	TT	1947007208
SNP_P4_160459_23947	NW_004516619.1	Scaffold1408	23947	AA	GG	1947007210
SNP_P4_160460_23986	NW_004516619.1	Scaffold1408	23986	GG	TT	1947007212
SNP_P4_160461_24607	NW_004516619.1	Scaffold1408	24607	CC	TT	1947007213
SNP_P4_160462_24672	NW_004516619.1	Scaffold1408	24672	GG	AA	1947007215
SNP_P4_160464_25071	NW_004516619.1	Scaffold1408	25071	GG	TT	1947007217
SNP_P4_160465_25112	NW_004516619.1	Scaffold1408	25112	AA	GG	1947007219
SNP_P4_160466_25228	NW_004516619.1	Scaffold1408	25228	CC	GG	1947007221
SNP_P4_160467_25233	NW_004516619.1	Scaffold1408	25233	AA	CC	1947007223
SNP_P4_160468_25904	NW_004516619.1	Scaffold1408	25904	TT	CC	1947007225
SNP_P4_160469_25912	NW_004516619.1	Scaffold1408	25912	AA	TT	1947007227
SNP_P4_160470_25962	NW_004516619.1	Scaffold1408	25962	CC	TT	1947007229
SNP_P4_160472_26180	NW_004516619.1	Scaffold1408	26180	TT	GG	1947007231

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_160474_26220	NW_004516619.1	Scaffold1408	26220	CC	TT	1947007235
SNP_P4_160475_26296	NW_004516619.1	Scaffold1408	26296	TT	CC	1947007236
SNP_P4_160476_26338	NW_004516619.1	Scaffold1408	26338	CC	GG	1947007238
SNP_P4_160477_26395	NW_004516619.1	Scaffold1408	26395	TT	AA	1947007240
SNP_P4_160478_26413	NW_004516619.1	Scaffold1408	26413	AA	TT	1947007242
SNP_P4_160479_26414	NW_004516619.1	Scaffold1408	26414	TT	AA	1947007244
SNP_P4_160480_26485	NW_004516619.1	Scaffold1408	26485	AA	TT	1947007246
SNP_P4_160481_26567	NW_004516619.1	Scaffold1408	26567	TT	GG	1947007248
SNP_P4_160482_26571	NW_004516619.1	Scaffold1408	26571	TT	AA	1947007250
SNP_P4_160483_26598	NW_004516619.1	Scaffold1408	26598	CC	AA	1947007252
SNP_P4_160484_26602	NW_004516619.1	Scaffold1408	26602	GG	CC	1947007254
SNP_P4_160485_26651	NW_004516619.1	Scaffold1408	26651	TT	AA	1947007256
SNP_P4_160486_26688	NW_004516619.1	Scaffold1408	26688	GG	TT	1947007258
SNP_P4_160487_26751	NW_004516619.1	Scaffold1408	26751	AA	CC	1947007260
SNP_P4_160488_26756	NW_004516619.1	Scaffold1408	26756	CC	TT	1947007262
SNP_P4_160489_26762	NW_004516619.1	Scaffold1408	26762	CC	TT	1947007264
SNP_P4_160490_26768	NW_004516619.1	Scaffold1408	26768	GG	TT	1947007266
SNP_P4_160491_26991	NW_004516619.1	Scaffold1408	26991	TT	AA	1947007268
SNP_P4_160492_27035	NW_004516619.1	Scaffold1408	27035	GG	AA	1947007270
SNP_P4_160493_27153	NW_004516619.1	Scaffold1408	27153	TT	GG	1947007272
SNP_P4_160494_27277	NW_004516619.1	Scaffold1408	27277	CC	TT	1947007274
SNP_P4_160495_27372	NW_004516619.1	Scaffold1408	27372	AA	TT	1947007277
SNP_P4_160496_27399	NW_004516619.1	Scaffold1408	27399	CC	AA	1947007279
SNP_P4_160497_27479	NW_004516619.1	Scaffold1408	27479	GG	TT	1947007281
SNP_P4_160498_27995	NW_004516619.1	Scaffold1408	27995	AA	TT	1947007283
SNP_P4_160499_28025	NW_004516619.1	Scaffold1408	28025	TT	CC	1947007285
SNP_P4_160500_28029	NW_004516619.1	Scaffold1408	28029	CC	TT	1947007287
SNP_P4_160501_28129	NW_004516619.1	Scaffold1408	28129	TT	AA	1947007289
SNP_P4_160502_28182	NW_004516619.1	Scaffold1408	28182	TT	GG	1947007291
SNP_P4_160503_28329	NW_004516619.1	Scaffold1408	28329	GG	CC	1947007293
SNP_P4_160504_29283	NW_004516619.1	Scaffold1408	29283	AA	TT	1947007295
SNP_P4_160505_29302	NW_004516619.1	Scaffold1408	29302	TT	GG	1947007297
SNP_P4_160506_29303	NW_004516619.1	Scaffold1408	29303	AA	TT	1947007299
SNP_P4_160507_29328	NW_004516619.1	Scaffold1408	29328	CC	TT	1947007301
SNP_P4_160508_29389	NW_004516619.1	Scaffold1408	29389	AA	GG	1947007303
SNP_P4_160509_29441	NW_004516619.1	Scaffold1408	29441	AA	GG	1947007305
SNP_P4_160511_29619	NW_004516619.1	Scaffold1408	29619	TT	CC	1947007307
SNP_P4_160512_29621	NW_004516619.1	Scaffold1408	29621	GG	AA	1947007309
SNP_P4_160514_34804	NW_004516619.1	Scaffold1408	34804	AA	GG	1947007311
SNP_P4_160515_34962	NW_004516619.1	Scaffold1408	34962	TT	CC	1947007313
SNP_P4_160516_34963	NW_004516619.1	Scaffold1408	34963	GG	AA	1947007315

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_160517_34994	NW_004516619.1	Scaffold1408	34994	TT	CC	1947007317
SNP_P4_160518_35005	NW_004516619.1	Scaffold1408	35005	AA	CC	1947007319
SNP_P4_160519_35028	NW_004516619.1	Scaffold1408	35028	CC	TT	1947007321
SNP_P4_160520_36923	NW_004516619.1	Scaffold1408	36923	CC	GG	1947007323
SNP_P4_160521_37063	NW_004516619.1	Scaffold1408	37063	GG	AA	1947007325
SNP_P4_160522_37111	NW_004516619.1	Scaffold1408	37111	AA	GG	1947007327
SNP_P4_160523_37147	NW_004516619.1	Scaffold1408	37147	TT	AA	1947007329
SNP_P4_160524_37165	NW_004516619.1	Scaffold1408	37165	AA	CC	1947007331
SNP_P4_160525_37207	NW_004516619.1	Scaffold1408	37207	GG	TT	1947007333
SNP_P4_160526_37216	NW_004516619.1	Scaffold1408	37216	CC	TT	1947007335
SNP_P4_160527_37235	NW_004516619.1	Scaffold1408	37235	GG	AA	1947007337
SNP_P4_160528_37248	NW_004516619.1	Scaffold1408	37248	AA	TT	1947007339
SNP_P4_160529_37249	NW_004516619.1	Scaffold1408	37249	GG	AA	1947007341
SNP_P4_160530_37265	NW_004516619.1	Scaffold1408	37265	GG	CC	1947007343
SNP_P4_160531_37299	NW_004516619.1	Scaffold1408	37299	GG	AA	1947007345
SNP_P4_160532_37326	NW_004516619.1	Scaffold1408	37326	TT	CC	1947007347
SNP_P4_160533_37327	NW_004516619.1	Scaffold1408	37327	CC	GG	1947007349
SNP_P4_160534_37329	NW_004516619.1	Scaffold1408	37329	AA	TT	1947007351
SNP_P4_160535_39530	NW_004516619.1	Scaffold1408	39530	TT	GG	1947007353
SNP_P4_160536_39610	NW_004516619.1	Scaffold1408	39610	GG	TT	1947007355
SNP_P4_160537_53106	NW_004516619.1	Scaffold1408	53106	TT	AA	1947007357
SNP_P4_160538_53145	NW_004516619.1	Scaffold1408	53145	GG	AA	1947007359
SNP_P4_160539_53150	NW_004516619.1	Scaffold1408	53150	TT	CC	1947007361
SNP_P4_160540_53252	NW_004516619.1	Scaffold1408	53252	AA	CC	1947007363
SNP_P4_160541_53269	NW_004516619.1	Scaffold1408	53269	GG	TT	1947007365
SNP_P4_160542_53298	NW_004516619.1	Scaffold1408	53298	CC	TT	1947007367
SNP_P4_160543_53317	NW_004516619.1	Scaffold1408	53317	AA	TT	1947007369
SNP_P4_160544_53510	NW_004516619.1	Scaffold1408	53510	AA	TT	1947007371
SNP_P4_160546_54070	NW_004516619.1	Scaffold1408	54070	AA	TT	1947007373
SNP_P4_160547_54611	NW_004516619.1	Scaffold1408	54611	AA	CC	1947007375
SNP_P4_160548_54797	NW_004516619.1	Scaffold1408	54797	AA	GG	1947007377
SNP_P4_160549_54907	NW_004516619.1	Scaffold1408	54907	AA	GG	1947007379
SNP_P4_160550_54927	NW_004516619.1	Scaffold1408	54927	GG	TT	1947007381
SNP_P4_160551_55167	NW_004516619.1	Scaffold1408	55167	AA	TT	1947007383
SNP_P4_160552_55219	NW_004516619.1	Scaffold1408	55219	CC	TT	1947007385
SNP_P4_160553_56198	NW_004516619.1	Scaffold1408	56198	TT	CC	1947007387
SNP_P4_160554_62197	NW_004516619.1	Scaffold1408	62197	TT	CC	1947007389
SNP_P4_160555_62285	NW_004516619.1	Scaffold1408	62285	AA	TT	1947007391
SNP_P4_160556_62860	NW_004516619.1	Scaffold1408	62860	TT	CC	1947007393
SNP_P4_160557_62987	NW_004516619.1	Scaffold1408	62987	GG	AA	1947007395
SNP_P4_160558_63231	NW_004516619.1	Scaffold1408	63231	AA	GG	1947007397
SNP_P4_160559_63277	NW_004516619.1	Scaffold1408	63277	TT	AA	1947007400

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_160561_66530	NW_004516619.1	Scaffold1408	66530	TT	GG	1947007404
SNP_P4_160562_66596	NW_004516619.1	Scaffold1408	66596	TT	CC	1947007406
SNP_P4_160563_66725	NW_004516619.1	Scaffold1408	66725	TT	AA	1947007408
SNP_P4_160564_66763	NW_004516619.1	Scaffold1408	66763	AA	TT	1947007410
SNP_P4_160565_66992	NW_004516619.1	Scaffold1408	66992	GG	AA	1947007412
SNP_P4_160566_67068	NW_004516619.1	Scaffold1408	67068	AA	TT	1947007413
SNP_P4_160567_68187	NW_004516619.1	Scaffold1408	68187	TT	CC	1947007415
SNP_P4_160568_68250	NW_004516619.1	Scaffold1408	68250	CC	GG	1947007417
SNP_P4_160569_68267	NW_004516619.1	Scaffold1408	68267	TT	AA	1947007419
SNP_P4_160570_68306	NW_004516619.1	Scaffold1408	68306	TT	GG	1947007421
SNP_P4_160571_68335	NW_004516619.1	Scaffold1408	68335	AA	GG	1947007423
SNP_P4_160572_68490	NW_004516619.1	Scaffold1408	68490	AA	GG	1947007425
SNP_P4_160573_68508	NW_004516619.1	Scaffold1408	68508	CC	TT	1947007427
SNP_P4_160574_69184	NW_004516619.1	Scaffold1408	69184	AA	GG	1947007429
SNP_P4_160575_69220	NW_004516619.1	Scaffold1408	69220	TT	GG	1947007431
SNP_P4_160576_69225	NW_004516619.1	Scaffold1408	69225	GG	CC	1947007433
SNP_P4_160577_69266	NW_004516619.1	Scaffold1408	69266	AA	TT	1947007435
SNP_P4_160578_69541	NW_004516619.1	Scaffold1408	69541	TT	AA	1947007437
SNP_P4_160579_69652	NW_004516619.1	Scaffold1408	69652	CC	TT	1947007439
SNP_P4_160580_69770	NW_004516619.1	Scaffold1408	69770	GG	TT	1947007441
SNP_P4_160581_69942	NW_004516619.1	Scaffold1408	69942	GG	AA	1947007443
SNP_P4_160582_70022	NW_004516619.1	Scaffold1408	70022	TT	AA	1947007445
SNP_P4_160583_70248	NW_004516619.1	Scaffold1408	70248	TT	CC	1947007447
SNP_P4_160584_70487	NW_004516619.1	Scaffold1408	70487	TT	AA	1947007449
SNP_P4_160585_70638	NW_004516619.1	Scaffold1408	70638	CC	GG	1947007451
SNP_P4_160586_70655	NW_004516619.1	Scaffold1408	70655	TT	AA	1947007453
SNP_P4_160587_70873	NW_004516619.1	Scaffold1408	70873	GG	TT	1947007455
SNP_P4_160588_70901	NW_004516619.1	Scaffold1408	70901	CC	AA	1947007457
SNP_P4_160590_71000	NW_004516619.1	Scaffold1408	71000	GG	CC	1947007459
SNP_P4_160591_71985	NW_004516619.1	Scaffold1408	71985	GG	AA	1947007461
SNP_P4_160592_72045	NW_004516619.1	Scaffold1408	72045	GG	TT	1947007463
SNP_P4_160593_72071	NW_004516619.1	Scaffold1408	72071	GG	TT	1947007465
SNP_P4_160594_72171	NW_004516619.1	Scaffold1408	72171	TT	GG	1947007467
SNP_P4_160595_72312	NW_004516619.1	Scaffold1408	72312	TT	CC	1947007469
SNP_P4_160596_72362	NW_004516619.1	Scaffold1408	72362	AA	TT	1947007471
SNP_P4_160597_72491	NW_004516619.1	Scaffold1408	72491	CC	GG	1947007473
SNP_P4_160598_72654	NW_004516619.1	Scaffold1408	72654	TT	AA	1947007475
SNP_P4_160599_72660	NW_004516619.1	Scaffold1408	72660	GG	TT	1947007477
SNP_P4_160600_72915	NW_004516619.1	Scaffold1408	72915	GG	AA	1947007479
SNP_P4_160601_73240	NW_004516619.1	Scaffold1408	73240	AA	TT	1947007481
SNP_P4_160602_74896	NW_004516619.1	Scaffold1408	74896	GG	AA	1947007483

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_160604_77010	NW_004516619.1	Scaffold1408	77010	AA	CC	1947007487
SNP_P4_160605_77840	NW_004516619.1	Scaffold1408	77840	GG	AA	1947007489
SNP_P4_160606_77899	NW_004516619.1	Scaffold1408	77899	TT	CC	1947007491
SNP_P4_160607_77935	NW_004516619.1	Scaffold1408	77935	GG	CC	1947007493
SNP_P4_160608_78006	NW_004516619.1	Scaffold1408	78006	TT	CC	1947007494
SNP_P4_160609_78012	NW_004516619.1	Scaffold1408	78012	TT	CC	1947007496
SNP_P4_160610_78161	NW_004516619.1	Scaffold1408	78161	CC	AA	1947007498
SNP_P4_160611_78269	NW_004516619.1	Scaffold1408	78269	GG	CC	1947007500
SNP_P4_160612_80470	NW_004516619.1	Scaffold1408	80470	AA	TT	1947007502
SNP_P4_160613_80707	NW_004516619.1	Scaffold1408	80707	GG	AA	1947007504
SNP_P4_160614_80772	NW_004516619.1	Scaffold1408	80772	CC	GG	1947007506
SNP_P4_160615_80847	NW_004516619.1	Scaffold1408	80847	GG	AA	1947007508
SNP_P4_160616_80854	NW_004516619.1	Scaffold1408	80854	TT	GG	1947007510
SNP_P4_160617_81211	NW_004516619.1	Scaffold1408	81211	GG	TT	1947007512
SNP_P4_160618_81246	NW_004516619.1	Scaffold1408	81246	GG	AA	1947007514
SNP_P4_160619_81378	NW_004516619.1	Scaffold1408	81378	TT	CC	1947007516
SNP_P4_160620_81702	NW_004516619.1	Scaffold1408	81702	TT	AA	1947007518
SNP_P4_160621_81789	NW_004516619.1	Scaffold1408	81789	TT	CC	1947007519
SNP_P4_160622_81819	NW_004516619.1	Scaffold1408	81819	CC	TT	1947007521
SNP_P4_160623_82135	NW_004516619.1	Scaffold1408	82135	TT	AA	1947007523
SNP_P4_160624_82136	NW_004516619.1	Scaffold1408	82136	CC	TT	1947007525
SNP_P4_160625_82714	NW_004516619.1	Scaffold1408	82714	GG	CC	1947007527
SNP_P4_160626_82828	NW_004516619.1	Scaffold1408	82828	GG	AA	1947007529
SNP_P4_160627_82922	NW_004516619.1	Scaffold1408	82922	AA	TT	1947007531
SNP_P4_160628_82974	NW_004516619.1	Scaffold1408	82974	CC	GG	1947007533
SNP_P4_160629_83047	NW_004516619.1	Scaffold1408	83047	GG	TT	1947007535
SNP_P4_160630_83104	NW_004516619.1	Scaffold1408	83104	TT	AA	1947007537
SNP_P4_160631_83108	NW_004516619.1	Scaffold1408	83108	TT	CC	1947007539
SNP_P4_160632_83784	NW_004516619.1	Scaffold1408	83784	GG	TT	1947007541
SNP_P4_160633_84068	NW_004516619.1	Scaffold1408	84068	TT	GG	1947007542
SNP_P4_160634_84900	NW_004516619.1	Scaffold1408	84900	TT	CC	1947007544
SNP_P4_160635_84941	NW_004516619.1	Scaffold1408	84941	CC	TT	1947007546
SNP_P4_160636_85104	NW_004516619.1	Scaffold1408	85104	TT	GG	1947007548
SNP_P4_160637_85133	NW_004516619.1	Scaffold1408	85133	TT	GG	1947007550
SNP_P4_160638_85633	NW_004516619.1	Scaffold1408	85633	AA	GG	1947007552
SNP_P4_160639_85892	NW_004516619.1	Scaffold1408	85892	GG	TT	1947007554
SNP_P4_160640_85906	NW_004516619.1	Scaffold1408	85906	AA	TT	1947007556
SNP_P4_160641_85912	NW_004516619.1	Scaffold1408	85912	TT	CC	1947007558
SNP_P4_160642_85918	NW_004516619.1	Scaffold1408	85918	GG	TT	1947007560
SNP_P4_160643_86024	NW_004516619.1	Scaffold1408	86024	TT	AA	1947007562
SNP_P4_160644_86031	NW_004516619.1	Scaffold1408	86031	TT	CC	1947007564

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_160646_86640	NW_004516619.1	Scaffold1408	86640	AA	TT	1947007567
SNP_P4_160647_87027	NW_004516619.1	Scaffold1408	87027	TT	GG	1947007569
SNP_P4_160648_89984	NW_004516619.1	Scaffold1408	89984	GG	CC	1947007571
SNP_P4_160649_91030	NW_004516619.1	Scaffold1408	91030	GG	AA	1947007573
SNP_P4_160650_91438	NW_004516619.1	Scaffold1408	91438	GG	AA	1947007575
SNP_P4_160651_91451	NW_004516619.1	Scaffold1408	91451	AA	TT	1947007577
SNP_P4_160652_91499	NW_004516619.1	Scaffold1408	91499	GG	AA	1947007579
SNP_P4_160653_91552	NW_004516619.1	Scaffold1408	91552	AA	GG	1947007581
SNP_P4_160654_91908	NW_004516619.1	Scaffold1408	91908	GG	TT	1947007583
SNP_P4_160655_91980	NW_004516619.1	Scaffold1408	91980	AA	TT	1947007585
SNP_P4_160656_92145	NW_004516619.1	Scaffold1408	92145	CC	TT	1947007587
SNP_P4_160657_92249	NW_004516619.1	Scaffold1408	92249	AA	TT	1947007589
SNP_P4_160659_92365	NW_004516619.1	Scaffold1408	92365	TT	CC	1947007591
SNP_P4_160660_92391	NW_004516619.1	Scaffold1408	92391	GG	TT	1947007593
SNP_P4_160661_92446	NW_004516619.1	Scaffold1408	92446	GG	AA	1947007594
SNP_P4_160662_92451	NW_004516619.1	Scaffold1408	92451	CC	GG	1947007596
SNP_P4_160663_92545	NW_004516619.1	Scaffold1408	92545	AA	TT	1947007598
SNP_P4_160664_92582	NW_004516619.1	Scaffold1408	92582	CC	TT	1947007600
SNP_P4_160665_92592	NW_004516619.1	Scaffold1408	92592	TT	GG	1947007602
SNP_P4_160666_92620	NW_004516619.1	Scaffold1408	92620	TT	GG	1947007604
SNP_P4_160667_92667	NW_004516619.1	Scaffold1408	92667	GG	AA	1947007606
SNP_P4_160668_92870	NW_004516619.1	Scaffold1408	92870	TT	GG	1947007608
SNP_P4_160669_92918	NW_004516619.1	Scaffold1408	92918	AA	TT	1947007610
SNP_P4_160671_96558	NW_004516619.1	Scaffold1408	96558	TT	AA	1947007612
SNP_P4_160672_97771	NW_004516619.1	Scaffold1408	97771	TT	AA	1947007614
SNP_P4_160673_101647	NW_004516619.1	Scaffold1408	101647	GG	CC	1947007616
SNP_P4_160674_101665	NW_004516619.1	Scaffold1408	101665	TT	AA	1947007618
SNP_P4_160675_101721	NW_004516619.1	Scaffold1408	101721	GG	AA	1947007620
SNP_P4_160676_101869	NW_004516619.1	Scaffold1408	101869	AA	CC	1947007622
SNP_P4_160677_101954	NW_004516619.1	Scaffold1408	101954	TT	AA	1947007624
SNP_P4_160678_103198	NW_004516619.1	Scaffold1408	103198	CC	AA	1947007626
SNP_P4_160679_103316	NW_004516619.1	Scaffold1408	103316	AA	CC	1947007628
SNP_P4_160680_103646	NW_004516619.1	Scaffold1408	103646	TT	CC	1947007630
SNP_P4_160681_103695	NW_004516619.1	Scaffold1408	103695	TT	CC	1947007632
SNP_P4_160683_103971	NW_004516619.1	Scaffold1408	103971	GG	TT	1947007634
SNP_P4_160684_104452	NW_004516619.1	Scaffold1408	104452	AA	GG	1947007636
SNP_P4_160685_104815	NW_004516619.1	Scaffold1408	104815	AA	GG	1947007639
SNP_P4_160686_105145	NW_004516619.1	Scaffold1408	105145	AA	GG	1947007641
SNP_P4_160687_105324	NW_004516619.1	Scaffold1408	105324	GG	AA	1947007643
SNP_P4_160688_105439	NW_004516619.1	Scaffold1408	105439	CC	TT	1947007645
SNP_P4_160689_105712	NW_004516619.1	Scaffold1408	105712	GG	TT	1947007647

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_160691_108089	NW_004516619.1	Scaffold1408	108089	AA	TT	1947007651
SNP_P4_160692_108639	NW_004516619.1	Scaffold1408	108639	GG	TT	1947007654
SNP_P4_160693_108640	NW_004516619.1	Scaffold1408	108640	TT	GG	1947007656
SNP_P4_160694_108733	NW_004516619.1	Scaffold1408	108733	GG	AA	1947007658
SNP_P4_160695_5728	NW_004516620.1	Scaffold1409	5728	CC	TT	1947007660
SNP_P4_160696_6850	NW_004516620.1	Scaffold1409	6850	AA	GG	1947007662
SNP_P4_160697_6895	NW_004516620.1	Scaffold1409	6895	AA	TT	1947007664
SNP_P4_160698_6921	NW_004516620.1	Scaffold1409	6921	TT	CC	1947007666
SNP_P4_160699_6922	NW_004516620.1	Scaffold1409	6922	AA	GG	1947007668
SNP_P4_160700_6928	NW_004516620.1	Scaffold1409	6928	GG	TT	1947007670
SNP_P4_160701_7345	NW_004516620.1	Scaffold1409	7345	AA	GG	1947007672
SNP_P4_160702_7412	NW_004516620.1	Scaffold1409	7412	GG	AA	1947007674
SNP_P4_160703_8589	NW_004516620.1	Scaffold1409	8589	TT	CC	1947007676
SNP_P4_160704_8884	NW_004516620.1	Scaffold1409	8884	TT	CC	1947007678
SNP_P4_160705_8919	NW_004516620.1	Scaffold1409	8919	AA	GG	1947007680
SNP_P4_160706_8931	NW_004516620.1	Scaffold1409	8931	AA	CC	1947007682
SNP_P4_160707_8950	NW_004516620.1	Scaffold1409	8950	AA	GG	1947007685
SNP_P4_160708_8982	NW_004516620.1	Scaffold1409	8982	TT	CC	1947007687
SNP_P4_160709_8996	NW_004516620.1	Scaffold1409	8996	CC	TT	1947007689
SNP_P4_160710_9044	NW_004516620.1	Scaffold1409	9044	CC	TT	1947007691
SNP_P4_160712_9152	NW_004516620.1	Scaffold1409	9152	CC	TT	1947007693
SNP_P4_160713_9213	NW_004516620.1	Scaffold1409	9213	CC	TT	1947007695
SNP_P4_160715_9257	NW_004516620.1	Scaffold1409	9257	TT	AA	1947007697
SNP_P4_160716_9336	NW_004516620.1	Scaffold1409	9336	TT	AA	1947007699
SNP_P4_160717_9452	NW_004516620.1	Scaffold1409	9452	CC	TT	1947007701
SNP_P4_160718_9510	NW_004516620.1	Scaffold1409	9510	TT	CC	1947007703
SNP_P4_160719_9568	NW_004516620.1	Scaffold1409	9568	CC	TT	1947007705
SNP_P4_160720_9591	NW_004516620.1	Scaffold1409	9591	AA	TT	1947007707
SNP_P4_160721_9643	NW_004516620.1	Scaffold1409	9643	GG	AA	1947007709
SNP_P4_160722_9910	NW_004516620.1	Scaffold1409	9910	AA	CC	1947007711
SNP_P4_160723_9978	NW_004516620.1	Scaffold1409	9978	TT	CC	1947007713
SNP_P4_160724_9982	NW_004516620.1	Scaffold1409	9982	TT	CC	1947007715
SNP_P4_160725_10031	NW_004516620.1	Scaffold1409	10031	CC	TT	1947007717
SNP_P4_160726_10078	NW_004516620.1	Scaffold1409	10078	TT	AA	1947007719
SNP_P4_160727_10158	NW_004516620.1	Scaffold1409	10158	TT	GG	1947007721
SNP_P4_160728_10237	NW_004516620.1	Scaffold1409	10237	AA	GG	1947007723
SNP_P4_160729_11827	NW_004516620.1	Scaffold1409	11827	CC	TT	1947007725
SNP_P4_160731_12375	NW_004516620.1	Scaffold1409	12375	AA	CC	1947007727
SNP_P4_160732_12482	NW_004516620.1	Scaffold1409	12482	TT	CC	1947007729
SNP_P4_160733_12518	NW_004516620.1	Scaffold1409	12518	GG	AA	1947007731
SNP_P4_160734_12552	NW_004516620.1	Scaffold1409	12552	AA	GG	1947007733

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_160736_12691	NW_004516620.1	Scaffold1409	12691	AA	TT	1947007737
SNP_P4_160737_12740	NW_004516620.1	Scaffold1409	12740	GG	CC	1947007739
SNP_P4_160738_12744	NW_004516620.1	Scaffold1409	12744	CC	GG	1947007741
SNP_P4_160739_14734	NW_004516620.1	Scaffold1409	14734	GG	CC	1947007743
SNP_P4_160740_15048	NW_004516620.1	Scaffold1409	15048	CC	TT	1947007745
SNP_P4_160741_18226	NW_004516622.1	Scaffold1411	18226	TT	CC	1947007747
SNP_P4_160742_35590	NW_004516622.1	Scaffold1411	35590	GG	CC	1947007749
SNP_P4_160743_35683	NW_004516622.1	Scaffold1411	35683	AA	GG	1947007751
SNP_P4_160744_36051	NW_004516622.1	Scaffold1411	36051	TT	CC	1947007753
SNP_P4_160745_37261	NW_004516622.1	Scaffold1411	37261	GG	CC	1947007755
SNP_P4_160746_37279	NW_004516622.1	Scaffold1411	37279	GG	CC	1947007757
SNP_P4_160747_37280	NW_004516622.1	Scaffold1411	37280	TT	CC	1947007759
SNP_P4_160748_39207	NW_004516622.1	Scaffold1411	39207	TT	CC	1947007762
SNP_P4_160749_72817	NW_004516622.1	Scaffold1411	72817	GG	AA	1947007764
SNP_P4_160750_76856	NW_004516622.1	Scaffold1411	76856	TT	AA	1947007766
SNP_P4_160751_83365	NW_004516622.1	Scaffold1411	83365	TT	GG	1947007768
SNP_P4_160752_87332	NW_004516622.1	Scaffold1411	87332	CC	GG	1947007769
SNP_P4_160753_100167	NW_004516622.1	Scaffold1411	100167	GG	AA	1947007771
SNP_P4_160754_107660	NW_004516622.1	Scaffold1411	107660	TT	CC	1947007773
SNP_P4_160755_114654	NW_004516622.1	Scaffold1411	114654	CC	TT	1947007775
SNP_P4_160756_123956	NW_004516622.1	Scaffold1411	123956	GG	AA	1947007777
SNP_P4_160757_124946	NW_004516622.1	Scaffold1411	124946	CC	GG	1947007779
SNP_P4_160758_125347	NW_004516622.1	Scaffold1411	125347	GG	TT	1947007781
SNP_P4_160759_135337	NW_004516622.1	Scaffold1411	135337	CC	AA	1947007783
SNP_P4_160760_136913	NW_004516622.1	Scaffold1411	136913	AA	CC	1947007785
SNP_P4_160761_139327	NW_004516622.1	Scaffold1411	139327	CC	TT	1947007787
SNP_P4_160762_304	NW_004516623.1	Scaffold1412	304	GG	AA	1947007789
SNP_P4_160764_3352	NW_004516623.1	Scaffold1412	3352	AA	GG	1947007791
SNP_P4_160765_3356	NW_004516623.1	Scaffold1412	3356	AA	GG	1947007793
SNP_P4_160766_3409	NW_004516623.1	Scaffold1412	3409	GG	TT	1947007795
SNP_P4_160767_3426	NW_004516623.1	Scaffold1412	3426	TT	GG	1947007797
SNP_P4_160768_3448	NW_004516623.1	Scaffold1412	3448	TT	CC	1947007799
SNP_P4_160769_3469	NW_004516623.1	Scaffold1412	3469	GG	AA	1947007801
SNP_P4_160770_3482	NW_004516623.1	Scaffold1412	3482	GG	AA	1947007803
SNP_P4_160771_3515	NW_004516623.1	Scaffold1412	3515	AA	GG	1947007805
SNP_P4_160772_3529	NW_004516623.1	Scaffold1412	3529	AA	GG	1947007807
SNP_P4_160773_3543	NW_004516623.1	Scaffold1412	3543	TT	AA	1947007809
SNP_P4_160774_3669	NW_004516623.1	Scaffold1412	3669	CC	TT	1947007812
SNP_P4_160775_3698	NW_004516623.1	Scaffold1412	3698	TT	CC	1947007814
SNP_P4_160776_3714	NW_004516623.1	Scaffold1412	3714	CC	TT	1947007816
SNP_P4_160777_3734	NW_004516623.1	Scaffold1412	3734	TT	CC	1947007818

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_160779_3786	NW_004516623.1	Scaffold1412	3786	TT	GG	1947007822
SNP_P4_160780_3804	NW_004516623.1	Scaffold1412	3804	GG	AA	1947007824
SNP_P4_160781_3836	NW_004516623.1	Scaffold1412	3836	TT	CC	1947007826
SNP_P4_160782_3853	NW_004516623.1	Scaffold1412	3853	AA	GG	1947007828
SNP_P4_160783_17458	NW_004516623.1	Scaffold1412	17458	TT	AA	1947007830
SNP_P4_160784_17595	NW_004516623.1	Scaffold1412	17595	CC	TT	1947007832
SNP_P4_160785_18209	NW_004516623.1	Scaffold1412	18209	GG	TT	1947007834
SNP_P4_160786_1325	NW_004516624.1	Scaffold1413	1325	TT	CC	1947007836
SNP_P4_160787_1789	NW_004516625.1	Scaffold1414	1789	GG	TT	1947007838
SNP_P4_160788_2034	NW_004516625.1	Scaffold1414	2034	TT	AA	1947007840
SNP_P4_160789_2038	NW_004516625.1	Scaffold1414	2038	TT	GG	1947007842
SNP_P4_160790_2051	NW_004516625.1	Scaffold1414	2051	AA	GG	1947007844
SNP_P4_160791_2127	NW_004516625.1	Scaffold1414	2127	GG	AA	1947007846
SNP_P4_160792_2293	NW_004516625.1	Scaffold1414	2293	CC	TT	1947007848
SNP_P4_160793_2437	NW_004516625.1	Scaffold1414	2437	AA	TT	1947007850
SNP_P4_160794_2521	NW_004516625.1	Scaffold1414	2521	AA	TT	1947007852
SNP_P4_160796_8410	NW_004516625.1	Scaffold1414	8410	TT	CC	1947007854
SNP_P4_160797_20959	NW_004516625.1	Scaffold1414	20959	GG	CC	1947007856
SNP_P4_160798_28607	NW_004516625.1	Scaffold1414	28607	AA	CC	1947007858
SNP_P4_160799_29817	NW_004516625.1	Scaffold1414	29817	TT	CC	1947007860
SNP_P4_160800_32255	NW_004516625.1	Scaffold1414	32255	TT	CC	1947007862
SNP_P4_160801_32360	NW_004516625.1	Scaffold1414	32360	CC	TT	1947007864
SNP_P4_160802_32423	NW_004516625.1	Scaffold1414	32423	TT	CC	1947007866
SNP_P4_160803_32747	NW_004516625.1	Scaffold1414	32747	AA	GG	1947007868
SNP_P4_160804_33901	NW_004516625.1	Scaffold1414	33901	AA	TT	1947007870
SNP_P4_160805_33903	NW_004516625.1	Scaffold1414	33903	GG	TT	1947007872
SNP_P4_160806_35999	NW_004516625.1	Scaffold1414	35999	TT	GG	1947007874
SNP_P4_160807_36281	NW_004516625.1	Scaffold1414	36281	GG	TT	1947007876
SNP_P4_160808_36485	NW_004516625.1	Scaffold1414	36485	CC	AA	1947007878
SNP_P4_160809_36517	NW_004516625.1	Scaffold1414	36517	AA	GG	1947007880
SNP_P4_160810_37984	NW_004516625.1	Scaffold1414	37984	AA	GG	1947007882
SNP_P4_160812_48864	NW_004516625.1	Scaffold1414	48864	TT	CC	1947007884
SNP_P4_160813_48895	NW_004516625.1	Scaffold1414	48895	GG	AA	1947007886
SNP_P4_160814_55133	NW_004516625.1	Scaffold1414	55133	CC	GG	1947007888
SNP_P4_160815_55291	NW_004516625.1	Scaffold1414	55291	CC	AA	1947007890
SNP_P4_160816_56195	NW_004516625.1	Scaffold1414	56195	TT	AA	1947007892
SNP_P4_160817_59516	NW_004516625.1	Scaffold1414	59516	AA	GG	1947007894
SNP_P4_160818_59565	NW_004516625.1	Scaffold1414	59565	TT	CC	1947007896
SNP_P4_160819_59759	NW_004516625.1	Scaffold1414	59759	GG	AA	1947007898
SNP_P4_160820_59813	NW_004516625.1	Scaffold1414	59813	CC	TT	1947007900
SNP_P4_160821_67066	NW_004516625.1	Scaffold1414	67066	CC	GG	1947007902

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_160823_67081	NW_004516625.1	Scaffold1414	67081	GG	AA	1947007906
SNP_P4_160824_71247	NW_004516625.1	Scaffold1414	71247	TT	CC	1947007908
SNP_P4_160825_71248	NW_004516625.1	Scaffold1414	71248	CC	TT	1947007909
SNP_P4_160826_71249	NW_004516625.1	Scaffold1414	71249	TT	GG	1947007910
SNP_P4_160827_71368	NW_004516625.1	Scaffold1414	71368	GG	TT	1947007911
SNP_P4_160828_71382	NW_004516625.1	Scaffold1414	71382	TT	CC	1947007912
SNP_P4_160829_71413	NW_004516625.1	Scaffold1414	71413	AA	GG	1947007913
SNP_P4_160830_71425	NW_004516625.1	Scaffold1414	71425	AA	CC	1947007914
SNP_P4_160831_71445	NW_004516625.1	Scaffold1414	71445	AA	GG	1947007916
SNP_P4_160832_71495	NW_004516625.1	Scaffold1414	71495	AA	GG	1947007918
SNP_P4_160833_72532	NW_004516625.1	Scaffold1414	72532	TT	CC	1947007920
SNP_P4_160834_77321	NW_004516625.1	Scaffold1414	77321	TT	GG	1947007922
SNP_P4_160835_78771	NW_004516625.1	Scaffold1414	78771	GG	AA	1947007924
SNP_P4_160836_88758	NW_004516625.1	Scaffold1414	88758	AA	GG	1947007926
SNP_P4_160837_121006	NW_004516625.1	Scaffold1414	121006	TT	CC	1947007928
SNP_P4_160838_121010	NW_004516625.1	Scaffold1414	121010	CC	TT	1947007930
SNP_P4_160839_121026	NW_004516625.1	Scaffold1414	121026	TT	CC	1947007932
SNP_P4_160840_124664	NW_004516625.1	Scaffold1414	124664	TT	CC	1947007934
SNP_P4_160841_124829	NW_004516625.1	Scaffold1414	124829	CC	TT	1947007936
SNP_P4_160842_124832	NW_004516625.1	Scaffold1414	124832	AA	TT	1947007938
SNP_P4_160843_124841	NW_004516625.1	Scaffold1414	124841	CC	TT	1947007940
SNP_P4_160844_124951	NW_004516625.1	Scaffold1414	124951	CC	TT	1947007942
SNP_P4_160845_124963	NW_004516625.1	Scaffold1414	124963	GG	AA	1947007944
SNP_P4_160846_124986	NW_004516625.1	Scaffold1414	124986	AA	CC	1947007946
SNP_P4_160847_125022	NW_004516625.1	Scaffold1414	125022	AA	TT	1947007948
SNP_P4_160848_125045	NW_004516625.1	Scaffold1414	125045	AA	GG	1947007950
SNP_P4_160849_125064	NW_004516625.1	Scaffold1414	125064	GG	AA	1947007952
SNP_P4_160850_125123	NW_004516625.1	Scaffold1414	125123	AA	CC	1947007954
SNP_P4_160851_125124	NW_004516625.1	Scaffold1414	125124	TT	CC	1947007956
SNP_P4_160852_125131	NW_004516625.1	Scaffold1414	125131	AA	GG	1947007958
SNP_P4_160853_125165	NW_004516625.1	Scaffold1414	125165	CC	GG	1947007960
SNP_P4_160854_125174	NW_004516625.1	Scaffold1414	125174	GG	AA	1947007962
SNP_P4_160855_125192	NW_004516625.1	Scaffold1414	125192	GG	CC	1947007964
SNP_P4_160856_125196	NW_004516625.1	Scaffold1414	125196	AA	CC	1947007966
SNP_P4_160857_125250	NW_004516625.1	Scaffold1414	125250	CC	AA	1947007968
SNP_P4_160858_125522	NW_004516625.1	Scaffold1414	125522	AA	GG	1947007970
SNP_P4_160859_125690	NW_004516625.1	Scaffold1414	125690	CC	TT	1947007972
SNP_P4_160860_139602	NW_004516625.1	Scaffold1414	139602	TT	CC	1947007974
SNP_P4_160861_140010	NW_004516625.1	Scaffold1414	140010	AA	GG	1947007976
SNP_P4_160862_140086	NW_004516625.1	Scaffold1414	140086	AA	GG	1947007978
SNP_P4_160863_140138	NW_004516625.1	Scaffold1414	140138	AA	GG	1947007980

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_160864_140197	NW_004516625.1	Scaffold1414	140197	AA	GG	1947007982
SNP_P4_160865_140199	NW_004516625.1	Scaffold1414	140199	AA	GG	1947007984
SNP_P4_160866_140202	NW_004516625.1	Scaffold1414	140202	AA	CC	1947007986
SNP_P4_160867_145128	NW_004516625.1	Scaffold1414	145128	TT	CC	1947007988
SNP_P4_160868_145168	NW_004516625.1	Scaffold1414	145168	TT	CC	1947007990
SNP_P4_160869_145180	NW_004516625.1	Scaffold1414	145180	GG	TT	1947007992
SNP_P4_160870_145184	NW_004516625.1	Scaffold1414	145184	TT	CC	1947007994
SNP_P4_160871_145188	NW_004516625.1	Scaffold1414	145188	AA	TT	1947007996
SNP_P4_160872_145194	NW_004516625.1	Scaffold1414	145194	TT	GG	1947007998
SNP_P4_160873_145241	NW_004516625.1	Scaffold1414	145241	GG	AA	1947008000
SNP_P4_160874_145242	NW_004516625.1	Scaffold1414	145242	CC	AA	1947008002
SNP_P4_160875_145246	NW_004516625.1	Scaffold1414	145246	AA	TT	1947008004
SNP_P4_160876_145550	NW_004516625.1	Scaffold1414	145550	AA	CC	1947008006
SNP_P4_160877_145584	NW_004516625.1	Scaffold1414	145584	GG	AA	1947008008
SNP_P4_160878_145601	NW_004516625.1	Scaffold1414	145601	GG	AA	1947008010
SNP_P4_160879_145631	NW_004516625.1	Scaffold1414	145631	CC	GG	1947008012
SNP_P4_160880_145666	NW_004516625.1	Scaffold1414	145666	AA	CC	1947008014
SNP_P4_160881_146704	NW_004516625.1	Scaffold1414	146704	GG	AA	1947008016
SNP_P4_160882_147059	NW_004516625.1	Scaffold1414	147059	GG	AA	1947008017
SNP_P4_160883_148516	NW_004516625.1	Scaffold1414	148516	TT	CC	1947008019
SNP_P4_160884_149520	NW_004516625.1	Scaffold1414	149520	CC	GG	1947008021
SNP_P4_160885_151029	NW_004516625.1	Scaffold1414	151029	TT	CC	1947008023
SNP_P4_160886_151052	NW_004516625.1	Scaffold1414	151052	AA	GG	1947008025
SNP_P4_160887_151412	NW_004516625.1	Scaffold1414	151412	AA	GG	1947008027
SNP_P4_160888_151418	NW_004516625.1	Scaffold1414	151418	AA	GG	1947008029
SNP_P4_160889_161963	NW_004516625.1	Scaffold1414	161963	GG	AA	1947008031
SNP_P4_160890_171046	NW_004516625.1	Scaffold1414	171046	TT	CC	1947008033
SNP_P4_160891_171050	NW_004516625.1	Scaffold1414	171050	TT	CC	1947008035
SNP_P4_160892_172700	NW_004516625.1	Scaffold1414	172700	TT	CC	1947008037
SNP_P4_160893_186362	NW_004516625.1	Scaffold1414	186362	AA	GG	1947008039
SNP_P4_160894_190257	NW_004516625.1	Scaffold1414	190257	CC	AA	1947008041
SNP_P4_160895_190283	NW_004516625.1	Scaffold1414	190283	AA	CC	1947008043
SNP_P4_160896_190286	NW_004516625.1	Scaffold1414	190286	TT	GG	1947008045
SNP_P4_160897_190327	NW_004516625.1	Scaffold1414	190327	TT	CC	1947008047
SNP_P4_160898_190353	NW_004516625.1	Scaffold1414	190353	AA	GG	1947008049
SNP_P4_160899_190363	NW_004516625.1	Scaffold1414	190363	AA	TT	1947008051
SNP_P4_160900_190375	NW_004516625.1	Scaffold1414	190375	TT	CC	1947008053
SNP_P4_160901_190394	NW_004516625.1	Scaffold1414	190394	GG	AA	1947008055
SNP_P4_160902_190433	NW_004516625.1	Scaffold1414	190433	AA	GG	1947008057
SNP_P4_160903_190449	NW_004516625.1	Scaffold1414	190449	CC	TT	1947008059
SNP_P4_160904_190469	NW_004516625.1	Scaffold1414	190469	AA	TT	1947008061
SNP_P4_160906_190638	NW_004516625.1	Scaffold1414	190638	TT	CC	1947008063

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_160907_190644	NW_004516625.1	Scaffold1414	190644	GG	AA	1947008065
SNP_P4_160908_190698	NW_004516625.1	Scaffold1414	190698	TT	GG	1947008067
SNP_P4_160909_190794	NW_004516625.1	Scaffold1414	190794	GG	TT	1947008069
SNP_P4_160910_195589	NW_004516625.1	Scaffold1414	195589	AA	CC	1947008071
SNP_P4_160911_196913	NW_004516625.1	Scaffold1414	196913	GG	AA	1947008073
SNP_P4_160912_209401	NW_004516625.1	Scaffold1414	209401	TT	AA	1947008075
SNP_P4_160913_227252	NW_004516625.1	Scaffold1414	227252	AA	CC	1947008077
SNP_P4_160914_227263	NW_004516625.1	Scaffold1414	227263	TT	GG	1947008079
SNP_P4_160915_240925	NW_004516625.1	Scaffold1414	240925	AA	CC	1947008081
SNP_P4_160916_241015	NW_004516625.1	Scaffold1414	241015	GG	AA	1947008083
SNP_P4_160917_241108	NW_004516625.1	Scaffold1414	241108	CC	AA	1947008086
SNP_P4_160918_241209	NW_004516625.1	Scaffold1414	241209	TT	CC	1947008088
SNP_P4_160919_241248	NW_004516625.1	Scaffold1414	241248	AA	CC	1947008090
SNP_P4_160920_241304	NW_004516625.1	Scaffold1414	241304	AA	GG	1947008092
SNP_P4_160921_241315	NW_004516625.1	Scaffold1414	241315	AA	TT	1947008094
SNP_P4_160922_245774	NW_004516625.1	Scaffold1414	245774	TT	AA	1947008096
SNP_P4_160923_245775	NW_004516625.1	Scaffold1414	245775	AA	CC	1947008098
SNP_P4_160924_245776	NW_004516625.1	Scaffold1414	245776	TT	CC	1947008100
SNP_P4_160925_245996	NW_004516625.1	Scaffold1414	245996	TT	CC	1947008101
SNP_P4_160926_246004	NW_004516625.1	Scaffold1414	246004	CC	TT	1947008103
SNP_P4_160927_246034	NW_004516625.1	Scaffold1414	246034	GG	AA	1947008105
SNP_P4_160928_246066	NW_004516625.1	Scaffold1414	246066	GG	AA	1947008107
SNP_P4_160929_246099	NW_004516625.1	Scaffold1414	246099	GG	CC	1947008109
SNP_P4_160930_246134	NW_004516625.1	Scaffold1414	246134	CC	GG	1947008111
SNP_P4_160931_246148	NW_004516625.1	Scaffold1414	246148	CC	AA	1947008113
SNP_P4_160932_246149	NW_004516625.1	Scaffold1414	246149	TT	CC	1947008115
SNP_P4_160933_247366	NW_004516625.1	Scaffold1414	247366	AA	TT	1947008117
SNP_P4_160934_8747	NW_004516627.1	Scaffold1417	8747	TT	CC	1947008119
SNP_P4_160935_8778	NW_004516627.1	Scaffold1417	8778	TT	GG	1947008121
SNP_P4_160936_8795	NW_004516627.1	Scaffold1417	8795	TT	CC	1947008123
SNP_P4_160937_9099	NW_004516627.1	Scaffold1417	9099	GG	AA	1947008125
SNP_P4_160938_9262	NW_004516627.1	Scaffold1417	9262	AA	CC	1947008127
SNP_P4_160939_9282	NW_004516627.1	Scaffold1417	9282	CC	AA	1947008129
SNP_P4_160940_9283	NW_004516627.1	Scaffold1417	9283	TT	GG	1947008131
SNP_P4_160941_9309	NW_004516627.1	Scaffold1417	9309	AA	GG	1947008133
SNP_P4_160942_10030	NW_004516627.1	Scaffold1417	10030	CC	AA	1947008135
SNP_P4_160944_41572	NW_004516627.1	Scaffold1417	41572	CC	TT	1947008137
SNP_P4_160945_41575	NW_004516627.1	Scaffold1417	41575	CC	AA	1947008139
SNP_P4_160946_41579	NW_004516627.1	Scaffold1417	41579	CC	TT	1947008141
SNP_P4_160947_41818	NW_004516627.1	Scaffold1417	41818	TT	GG	1947008143
SNP_P4_160948_41839	NW_004516627.1	Scaffold1417	41839	GG	AA	1947008145
SNP_P4_160949_41856	NW_004516627.1	Scaffold1417	41856	GG	CC	1947008147

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_160950_46825	NW_004516627.1	Scaffold1417	46825	AA	GG	1947008149
SNP_P4_160951_46884	NW_004516627.1	Scaffold1417	46884	CC	AA	1947008151
SNP_P4_160952_46905	NW_004516627.1	Scaffold1417	46905	CC	GG	1947008153
SNP_P4_160953_47226	NW_004516627.1	Scaffold1417	47226	CC	TT	1947008155
SNP_P4_160954_58658	NW_004516627.1	Scaffold1417	58658	GG	AA	1947008157
SNP_P4_160955_58661	NW_004516627.1	Scaffold1417	58661	TT	AA	1947008159
SNP_P4_160956_58674	NW_004516627.1	Scaffold1417	58674	AA	TT	1947008161
SNP_P4_160957_58684	NW_004516627.1	Scaffold1417	58684	TT	CC	1947008162
SNP_P4_160958_87661	NW_004516627.1	Scaffold1417	87661	GG	AA	1947008163
SNP_P4_160959_95863	NW_004516627.1	Scaffold1417	95863	TT	CC	1947008164
SNP_P4_160960_95864	NW_004516627.1	Scaffold1417	95864	GG	AA	1947008165
SNP_P4_160962_122738	NW_004516627.1	Scaffold1417	122738	GG	TT	1947008166
SNP_P4_160963_123643	NW_004516627.1	Scaffold1417	123643	TT	GG	1947008167
SNP_P4_160964_123713	NW_004516627.1	Scaffold1417	123713	CC	TT	1947008168
SNP_P4_160966_123834	NW_004516627.1	Scaffold1417	123834	GG	CC	1947008169
SNP_P4_160967_123859	NW_004516627.1	Scaffold1417	123859	TT	CC	1947008170
SNP_P4_160968_123927	NW_004516627.1	Scaffold1417	123927	GG	AA	1947008171
SNP_P4_160969_123950	NW_004516627.1	Scaffold1417	123950	TT	AA	1947008172
SNP_P4_160970_124259	NW_004516627.1	Scaffold1417	124259	GG	AA	1947008173
SNP_P4_160971_126742	NW_004516627.1	Scaffold1417	126742	TT	GG	1947008174
SNP_P4_160972_127924	NW_004516627.1	Scaffold1417	127924	AA	GG	1947008175
SNP_P4_160973_127927	NW_004516627.1	Scaffold1417	127927	AA	GG	1947008176
SNP_P4_160974_127951	NW_004516627.1	Scaffold1417	127951	TT	GG	1947008177
SNP_P4_160975_127983	NW_004516627.1	Scaffold1417	127983	GG	AA	1947008178
SNP_P4_160976_127986	NW_004516627.1	Scaffold1417	127986	AA	GG	1947008179
SNP_P4_160977_131815	NW_004516627.1	Scaffold1417	131815	AA	GG	1947008180
SNP_P4_160978_151201	NW_004516627.1	Scaffold1417	151201	CC	TT	1947008181
SNP_P4_160979_151209	NW_004516627.1	Scaffold1417	151209	AA	GG	1947008182
SNP_P4_160980_151734	NW_004516627.1	Scaffold1417	151734	AA	TT	1947008183
SNP_P4_160981_151812	NW_004516627.1	Scaffold1417	151812	AA	CC	1947008184
SNP_P4_160982_184458	NW_004516627.1	Scaffold1417	184458	TT	CC	1947008185
SNP_P4_160983_189626	NW_004516627.1	Scaffold1417	189626	GG	AA	1947008186
SNP_P4_160984_220618	NW_004516627.1	Scaffold1417	220618	GG	TT	1947008187
SNP_P4_160985_234532	NW_004516627.1	Scaffold1417	234532	AA	CC	1947008188
SNP_P4_160986_234654	NW_004516627.1	Scaffold1417	234654	CC	GG	1947008189
SNP_P4_160988_249671	NW_004516627.1	Scaffold1417	249671	AA	GG	1947008190
SNP_P4_160989_257838	NW_004516627.1	Scaffold1417	257838	CC	TT	1947008191
SNP_P4_160990_260139	NW_004516627.1	Scaffold1417	260139	AA	TT	1947008192
SNP_P4_160991_260171	NW_004516627.1	Scaffold1417	260171	AA	GG	1947008193
SNP_P4_160992_260257	NW_004516627.1	Scaffold1417	260257	GG	TT	1947008194
SNP_P4_160993_260275	NW_004516627.1	Scaffold1417	260275	CC	TT	1947008195
SNP_P4_160994_260347	NW_004516627.1	Scaffold1417	260347	GG	AA	1947008196

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_160995_260412	NW_004516627.1	Scaffold1417	260412	TT	CC	1947008197
SNP_P4_160996_267559	NW_004516627.1	Scaffold1417	267559	CC	TT	1947008198
SNP_P4_160997_282942	NW_004516627.1	Scaffold1417	282942	AA	TT	1947008199
SNP_P4_160998_282955	NW_004516627.1	Scaffold1417	282955	GG	AA	1947008200
SNP_P4_160999_351798	NW_004516627.1	Scaffold1417	351798	CC	TT	1947008202
SNP_P4_161000_351984	NW_004516627.1	Scaffold1417	351984	TT	CC	1947008204
SNP_P4_161001_352091	NW_004516627.1	Scaffold1417	352091	AA	GG	1947008206
SNP_P4_161002_352155	NW_004516627.1	Scaffold1417	352155	TT	AA	1947008208
SNP_P4_161003_352211	NW_004516627.1	Scaffold1417	352211	CC	TT	1947008210
SNP_P4_161004_352223	NW_004516627.1	Scaffold1417	352223	TT	CC	1947008212
SNP_P4_161005_352302	NW_004516627.1	Scaffold1417	352302	AA	GG	1947008214
SNP_P4_161006_352311	NW_004516627.1	Scaffold1417	352311	GG	TT	1947008216
SNP_P4_161007_352320	NW_004516627.1	Scaffold1417	352320	TT	GG	1947008218
SNP_P4_161008_352344	NW_004516627.1	Scaffold1417	352344	GG	AA	1947008220
SNP_P4_161009_4092	NW_004516628.1	Scaffold1418	4092	GG	TT	1947008222
SNP_P4_161010_5071	NW_004516628.1	Scaffold1418	5071	AA	TT	1947008224
SNP_P4_161012_8780	NW_004516628.1	Scaffold1418	8780	TT	CC	1947008226
SNP_P4_161013_9705	NW_004516628.1	Scaffold1418	9705	TT	GG	1947008228
SNP_P4_161014_12836	NW_004516628.1	Scaffold1418	12836	CC	TT	1947008230
SNP_P4_161015_14333	NW_004516628.1	Scaffold1418	14333	AA	GG	1947008232
SNP_P4_161018_16368	NW_004516628.1	Scaffold1418	16368	CC	TT	1947008234
SNP_P4_161019_17363	NW_004516628.1	Scaffold1418	17363	TT	CC	1947008236
SNP_P4_161020_17777	NW_004516628.1	Scaffold1418	17777	CC	TT	1947008238
SNP_P4_161024_18338	NW_004516628.1	Scaffold1418	18338	TT	CC	1947008240
SNP_P4_161025_18480	NW_004516628.1	Scaffold1418	18480	CC	TT	1947008242
SNP_P4_161026_18543	NW_004516628.1	Scaffold1418	18543	AA	GG	1947008244
SNP_P4_161027_18812	NW_004516628.1	Scaffold1418	18812	CC	AA	1947008246
SNP_P4_161028_18868	NW_004516628.1	Scaffold1418	18868	CC	TT	1947008248
SNP_P4_161031_32025	NW_004516628.1	Scaffold1418	32025	AA	TT	1947008250
SNP_P4_161032_32984	NW_004516628.1	Scaffold1418	32984	GG	AA	1947008252
SNP_P4_161033_33084	NW_004516628.1	Scaffold1418	33084	AA	TT	1947008254
SNP_P4_161036_38722	NW_004516628.1	Scaffold1418	38722	CC	TT	1947008256
SNP_P4_161039_49139	NW_004516628.1	Scaffold1418	49139	CC	TT	1947008258
SNP_P4_161040_58791	NW_004516628.1	Scaffold1418	58791	AA	CC	1947008260
SNP_P4_161041_58802	NW_004516628.1	Scaffold1418	58802	CC	TT	1947008262
SNP_P4_161042_59196	NW_004516628.1	Scaffold1418	59196	TT	AA	1947008264
SNP_P4_161043_91671	NW_004516628.1	Scaffold1418	91671	CC	TT	1947008266
SNP_P4_161044_115445	NW_004516628.1	Scaffold1418	115445	CC	TT	1947008268
SNP_P4_161046_123	NW_004516629.1	Scaffold1419	123	TT	AA	1947008270
SNP_P4_161047_381	NW_004516629.1	Scaffold1419	381	GG	AA	1947008272
SNP_P4_161048_545	NW_004516629.1	Scaffold1419	545	CC	AA	1947008274
SNP_P4_161049_737	NW_004516629.1	Scaffold1419	737	TT	GG	1947008276

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_161050_1989	NW_004516629.1	Scaffold1419	1989	CC	TT	1947008278
SNP_P4_161051_3309	NW_004516629.1	Scaffold1419	3309	AA	TT	1947008280
SNP_P4_161052_10167	NW_004516629.1	Scaffold1419	10167	CC	AA	1947008282
SNP_P4_161053_10358	NW_004516629.1	Scaffold1419	10358	TT	AA	1947008284
SNP_P4_161054_10422	NW_004516629.1	Scaffold1419	10422	GG	CC	1947008286
SNP_P4_161055_10553	NW_004516629.1	Scaffold1419	10553	GG	CC	1947008288
SNP_P4_161056_10564	NW_004516629.1	Scaffold1419	10564	GG	AA	1947008290
SNP_P4_161057_10567	NW_004516629.1	Scaffold1419	10567	TT	CC	1947008292
SNP_P4_161059_10762	NW_004516629.1	Scaffold1419	10762	GG	AA	1947008294
SNP_P4_161060_10791	NW_004516629.1	Scaffold1419	10791	GG	AA	1947008296
SNP_P4_161061_10796	NW_004516629.1	Scaffold1419	10796	CC	TT	1947008298
SNP_P4_161062_10797	NW_004516629.1	Scaffold1419	10797	CC	AA	1947008300
SNP_P4_161064_17691	NW_004516629.1	Scaffold1419	17691	GG	TT	1947008302
SNP_P4_161065_19473	NW_004516629.1	Scaffold1419	19473	CC	TT	1947008304
SNP_P4_161066_19512	NW_004516629.1	Scaffold1419	19512	TT	GG	1947008306
SNP_P4_161067_19521	NW_004516629.1	Scaffold1419	19521	TT	GG	1947008308
SNP_P4_161068_19767	NW_004516629.1	Scaffold1419	19767	TT	CC	1947008310
SNP_P4_161069_20019	NW_004516629.1	Scaffold1419	20019	CC	TT	1947008312
SNP_P4_161070_20140	NW_004516629.1	Scaffold1419	20140	AA	CC	1947008314
SNP_P4_161073_21620	NW_004516629.1	Scaffold1419	21620	TT	CC	1947008316
SNP_P4_161074_21645	NW_004516629.1	Scaffold1419	21645	TT	AA	1947008318
SNP_P4_161075_21646	NW_004516629.1	Scaffold1419	21646	CC	AA	1947008320
SNP_P4_161076_21651	NW_004516629.1	Scaffold1419	21651	AA	TT	1947008322
SNP_P4_161077_21664	NW_004516629.1	Scaffold1419	21664	TT	AA	1947008324
SNP_P4_161078_21682	NW_004516629.1	Scaffold1419	21682	AA	GG	1947008326
SNP_P4_161079_21748	NW_004516629.1	Scaffold1419	21748	GG	AA	1947008328
SNP_P4_161080_21758	NW_004516629.1	Scaffold1419	21758	AA	TT	1947008330
SNP_P4_161081_21779	NW_004516629.1	Scaffold1419	21779	GG	AA	1947008332
SNP_P4_161083_22058	NW_004516629.1	Scaffold1419	22058	CC	TT	1947008334
SNP_P4_161084_22070	NW_004516629.1	Scaffold1419	22070	AA	TT	1947008336
SNP_P4_161085_22122	NW_004516629.1	Scaffold1419	22122	AA	TT	1947008338
SNP_P4_161086_22323	NW_004516629.1	Scaffold1419	22323	AA	GG	1947008340
SNP_P4_161087_22395	NW_004516629.1	Scaffold1419	22395	GG	TT	1947008342
SNP_P4_161088_22457	NW_004516629.1	Scaffold1419	22457	GG	CC	1947008344
SNP_P4_161089_22472	NW_004516629.1	Scaffold1419	22472	GG	AA	1947008346
SNP_P4_161090_22697	NW_004516629.1	Scaffold1419	22697	TT	CC	1947008348
SNP_P4_161091_22732	NW_004516629.1	Scaffold1419	22732	GG	TT	1947008350
SNP_P4_161092_22927	NW_004516629.1	Scaffold1419	22927	GG	AA	1947008352
SNP_P4_161093_25444	NW_004516629.1	Scaffold1419	25444	TT	CC	1947008354
SNP_P4_161094_25919	NW_004516629.1	Scaffold1419	25919	GG	TT	1947008356
SNP_P4_161095_26316	NW_004516629.1	Scaffold1419	26316	CC	TT	1947008358
SNP_P4_161096_26324	NW_004516629.1	Scaffold1419	26324	TT	CC	1947008360

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_161097_26580	NW_004516629.1	Scaffold1419	26580	GG	AA	1947008362
SNP_P4_161098_26632	NW_004516629.1	Scaffold1419	26632	TT	GG	1947008364
SNP_P4_161099_26736	NW_004516629.1	Scaffold1419	26736	CC	TT	1947008366
SNP_P4_161100_26753	NW_004516629.1	Scaffold1419	26753	TT	AA	1947008368
SNP_P4_161101_26756	NW_004516629.1	Scaffold1419	26756	TT	CC	1947008370
SNP_P4_161102_26783	NW_004516629.1	Scaffold1419	26783	GG	AA	1947008372
SNP_P4_161103_26847	NW_004516629.1	Scaffold1419	26847	CC	TT	1947008374
SNP_P4_161104_26879	NW_004516629.1	Scaffold1419	26879	TT	CC	1947008376
SNP_P4_161105_26895	NW_004516629.1	Scaffold1419	26895	AA	CC	1947008378
SNP_P4_161106_26897	NW_004516629.1	Scaffold1419	26897	AA	GG	1947008380
SNP_P4_161107_26965	NW_004516629.1	Scaffold1419	26965	GG	AA	1947008382
SNP_P4_161108_27067	NW_004516629.1	Scaffold1419	27067	TT	CC	1947008384
SNP_P4_161109_27160	NW_004516629.1	Scaffold1419	27160	CC	TT	1947008386
SNP_P4_161110_30410	NW_004516629.1	Scaffold1419	30410	TT	AA	1947008388
SNP_P4_161111_30675	NW_004516629.1	Scaffold1419	30675	AA	GG	1947008390
SNP_P4_161113_30887	NW_004516629.1	Scaffold1419	30887	CC	TT	1947008392
SNP_P4_161114_30889	NW_004516629.1	Scaffold1419	30889	TT	GG	1947008394
SNP_P4_161115_45414	NW_004516629.1	Scaffold1419	45414	TT	GG	1947008396
SNP_P4_161116_45417	NW_004516629.1	Scaffold1419	45417	CC	TT	1947008398
SNP_P4_161117_48533	NW_004516629.1	Scaffold1419	48533	TT	CC	1947008400
SNP_P4_161118_51069	NW_004516629.1	Scaffold1419	51069	CC	TT	1947008402
SNP_P4_161119_54197	NW_004516629.1	Scaffold1419	54197	TT	CC	1947008404
SNP_P4_161120_54412	NW_004516629.1	Scaffold1419	54412	CC	TT	1947008406
SNP_P4_161121_57438	NW_004516629.1	Scaffold1419	57438	AA	GG	1947008409
SNP_P4_161122_57444	NW_004516629.1	Scaffold1419	57444	AA	GG	1947008411
SNP_P4_161123_57469	NW_004516629.1	Scaffold1419	57469	GG	TT	1947008413
SNP_P4_161124_57483	NW_004516629.1	Scaffold1419	57483	AA	GG	1947008415
SNP_P4_161125_57499	NW_004516629.1	Scaffold1419	57499	TT	CC	1947008417
SNP_P4_161126_57574	NW_004516629.1	Scaffold1419	57574	AA	GG	1947008419
SNP_P4_161127_57593	NW_004516629.1	Scaffold1419	57593	TT	GG	1947008421
SNP_P4_161128_57601	NW_004516629.1	Scaffold1419	57601	TT	GG	1947008423
SNP_P4_161129_64490	NW_004516629.1	Scaffold1419	64490	TT	CC	1947008425
SNP_P4_161130_64541	NW_004516629.1	Scaffold1419	64541	AA	CC	1947008427
SNP_P4_161131_1750	NW_004516630.1	Scaffold1420	1750	AA	CC	1947008429
SNP_P4_161132_1753	NW_004516630.1	Scaffold1420	1753	AA	CC	1947008431
SNP_P4_161133_1782	NW_004516630.1	Scaffold1420	1782	CC	TT	1947008434
SNP_P4_161134_1817	NW_004516630.1	Scaffold1420	1817	TT	CC	1947008436
SNP_P4_161135_1835	NW_004516630.1	Scaffold1420	1835	TT	CC	1947008438
SNP_P4_161136_1867	NW_004516630.1	Scaffold1420	1867	AA	CC	1947008440
SNP_P4_161137_1881	NW_004516630.1	Scaffold1420	1881	CC	AA	1947008442
SNP_P4_161138_1924	NW_004516630.1	Scaffold1420	1924	CC	GG	1947008444
SNP_P4_161139_1928	NW_004516630.1	Scaffold1420	1928	TT	AA	1947008446

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_161140_2022	NW_004516630.1	Scaffold1420	2022	AA	GG	1947008448
SNP_P4_161141_2092	NW_004516630.1	Scaffold1420	2092	AA	GG	1947008450
SNP_P4_161142_2105	NW_004516630.1	Scaffold1420	2105	TT	CC	1947008452
SNP_P4_161143_2195	NW_004516630.1	Scaffold1420	2195	AA	GG	1947008454
SNP_P4_161144_2229	NW_004516630.1	Scaffold1420	2229	TT	GG	1947008456
SNP_P4_161145_4848	NW_004516630.1	Scaffold1420	4848	CC	TT	1947008458
SNP_P4_161146_4855	NW_004516630.1	Scaffold1420	4855	TT	CC	1947008460
SNP_P4_161147_4930	NW_004516630.1	Scaffold1420	4930	TT	CC	1947008462
SNP_P4_161148_5146	NW_004516630.1	Scaffold1420	5146	AA	TT	1947008463
SNP_P4_161150_5355	NW_004516630.1	Scaffold1420	5355	CC	AA	1947008465
SNP_P4_161151_5381	NW_004516630.1	Scaffold1420	5381	AA	GG	1947008467
SNP_P4_161152_5384	NW_004516630.1	Scaffold1420	5384	CC	AA	1947008469
SNP_P4_161153_5408	NW_004516630.1	Scaffold1420	5408	CC	TT	1947008471
SNP_P4_161154_5409	NW_004516630.1	Scaffold1420	5409	AA	CC	1947008473
SNP_P4_161155_9347	NW_004516630.1	Scaffold1420	9347	GG	AA	1947008475
SNP_P4_161156_9446	NW_004516630.1	Scaffold1420	9446	TT	GG	1947008477
SNP_P4_161157_11591	NW_004516630.1	Scaffold1420	11591	GG	AA	1947008480
SNP_P4_161158_11592	NW_004516630.1	Scaffold1420	11592	AA	CC	1947008482
SNP_P4_161159_12154	NW_004516630.1	Scaffold1420	12154	AA	CC	1947008484
SNP_P4_161160_12173	NW_004516630.1	Scaffold1420	12173	GG	TT	1947008485
SNP_P4_161161_15131	NW_004516630.1	Scaffold1420	15131	CC	TT	1947008487
SNP_P4_161162_15166	NW_004516630.1	Scaffold1420	15166	TT	AA	1947008489
SNP_P4_161163_15167	NW_004516630.1	Scaffold1420	15167	TT	CC	1947008491
SNP_P4_161164_15259	NW_004516630.1	Scaffold1420	15259	AA	CC	1947008493
SNP_P4_161165_20879	NW_004516630.1	Scaffold1420	20879	AA	GG	1947008495
SNP_P4_161166_20890	NW_004516630.1	Scaffold1420	20890	CC	AA	1947008497
SNP_P4_161167_21199	NW_004516630.1	Scaffold1420	21199	CC	GG	1947008499
SNP_P4_161168_21259	NW_004516630.1	Scaffold1420	21259	GG	TT	1947008501
SNP_P4_161169_21397	NW_004516630.1	Scaffold1420	21397	AA	CC	1947008503
SNP_P4_161170_21449	NW_004516630.1	Scaffold1420	21449	CC	TT	1947008505
SNP_P4_161171_21459	NW_004516630.1	Scaffold1420	21459	AA	GG	1947008507
SNP_P4_161172_21462	NW_004516630.1	Scaffold1420	21462	AA	GG	1947008509
SNP_P4_161173_1951	NW_004516631.1	Scaffold1422	1951	GG	AA	1947008511
SNP_P4_161174_2234	NW_004516631.1	Scaffold1422	2234	GG	TT	1947008514
SNP_P4_161175_7212	NW_004516631.1	Scaffold1422	7212	AA	CC	1947008516
SNP_P4_161176_64	NW_004516633.1	Scaffold1424	64	CC	GG	1947008518
SNP_P4_161177_91	NW_004516633.1	Scaffold1424	91	AA	TT	1947008520
SNP_P4_161178_106	NW_004516633.1	Scaffold1424	106	GG	TT	1947008522
SNP_P4_161179_532	NW_004516633.1	Scaffold1424	532	TT	GG	1947008524
SNP_P4_161180_3283	NW_004516633.1	Scaffold1424	3283	TT	AA	1947008526
SNP_P4_161182_24227	NW_004516633.1	Scaffold1424	24227	AA	CC	1947008528
SNP_P4_161183_43748	NW_004516633.1	Scaffold1424	43748	AA	GG	1947008530

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_161185_43780	NW_004516633.1	Scaffold1424	43780	CC	TT	1947008534
SNP_P4_161186_43807	NW_004516633.1	Scaffold1424	43807	TT	CC	1947008536
SNP_P4_161187_43828	NW_004516633.1	Scaffold1424	43828	TT	AA	1947008538
SNP_P4_161188_43842	NW_004516633.1	Scaffold1424	43842	TT	CC	1947008540
SNP_P4_161189_43858	NW_004516633.1	Scaffold1424	43858	AA	GG	1947008543
SNP_P4_161190_43881	NW_004516633.1	Scaffold1424	43881	CC	GG	1947008545
SNP_P4_161191_43913	NW_004516633.1	Scaffold1424	43913	GG	CC	1947008547
SNP_P4_161192_43941	NW_004516633.1	Scaffold1424	43941	TT	AA	1947008549
SNP_P4_161193_44027	NW_004516633.1	Scaffold1424	44027	GG	CC	1947008551
SNP_P4_161194_44093	NW_004516633.1	Scaffold1424	44093	GG	TT	1947008553
SNP_P4_161195_44104	NW_004516633.1	Scaffold1424	44104	CC	AA	1947008555
SNP_P4_161196_44143	NW_004516633.1	Scaffold1424	44143	GG	CC	1947008557
SNP_P4_161197_44144	NW_004516633.1	Scaffold1424	44144	GG	AA	1947008559
SNP_P4_161198_44149	NW_004516633.1	Scaffold1424	44149	AA	TT	1947008561
SNP_P4_161199_44169	NW_004516633.1	Scaffold1424	44169	GG	TT	1947008563
SNP_P4_161200_44177	NW_004516633.1	Scaffold1424	44177	TT	CC	1947008565
SNP_P4_161201_44184	NW_004516633.1	Scaffold1424	44184	AA	CC	1947008567
SNP_P4_161202_44196	NW_004516633.1	Scaffold1424	44196	TT	GG	1947008569
SNP_P4_161203_48247	NW_004516633.1	Scaffold1424	48247	CC	AA	1947008571
SNP_P4_161204_48252	NW_004516633.1	Scaffold1424	48252	GG	AA	1947008573
SNP_P4_161205_48274	NW_004516633.1	Scaffold1424	48274	GG	TT	1947008575
SNP_P4_161206_48278	NW_004516633.1	Scaffold1424	48278	TT	AA	1947008577
SNP_P4_161207_48400	NW_004516633.1	Scaffold1424	48400	AA	CC	1947008579
SNP_P4_161208_48407	NW_004516633.1	Scaffold1424	48407	AA	GG	1947008580
SNP_P4_161209_48468	NW_004516633.1	Scaffold1424	48468	GG	AA	1947008581
SNP_P4_161210_48493	NW_004516633.1	Scaffold1424	48493	GG	TT	1947008582
SNP_P4_161211_48511	NW_004516633.1	Scaffold1424	48511	AA	GG	1947008583
SNP_P4_161212_48711	NW_004516633.1	Scaffold1424	48711	TT	GG	1947008585
SNP_P4_161213_48741	NW_004516633.1	Scaffold1424	48741	GG	AA	1947008587
SNP_P4_161214_48772	NW_004516633.1	Scaffold1424	48772	TT	CC	1947008589
SNP_P4_161215_48777	NW_004516633.1	Scaffold1424	48777	GG	AA	1947008591
SNP_P4_161216_3757	NW_004516634.1	Scaffold1425	3757	CC	AA	1947008593
SNP_P4_161217_4162	NW_004516634.1	Scaffold1425	4162	TT	GG	1947008595
SNP_P4_161218_4176	NW_004516634.1	Scaffold1425	4176	TT	CC	1947008597
SNP_P4_161219_4180	NW_004516634.1	Scaffold1425	4180	TT	AA	1947008599
SNP_P4_161220_4216	NW_004516634.1	Scaffold1425	4216	GG	CC	1947008601
SNP_P4_161221_4237	NW_004516634.1	Scaffold1425	4237	TT	CC	1947008603
SNP_P4_161222_4447	NW_004516634.1	Scaffold1425	4447	TT	CC	1947008605
SNP_P4_161223_4525	NW_004516634.1	Scaffold1425	4525	GG	AA	1947008607
SNP_P4_161224_4776	NW_004516634.1	Scaffold1425	4776	AA	CC	1947008609
SNP_P4_161225_4804	NW_004516634.1	Scaffold1425	4804	AA	GG	1947008611

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_161227_4852	NW_004516634.1	Scaffold1425	4852	TT	AA	1947008615
SNP_P4_161228_4853	NW_004516634.1	Scaffold1425	4853	AA	CC	1947008617
SNP_P4_161229_4874	NW_004516634.1	Scaffold1425	4874	AA	TT	1947008619
SNP_P4_161230_4889	NW_004516634.1	Scaffold1425	4889	GG	AA	1947008620
SNP_P4_161232_5570	NW_004516635.1	Scaffold1426	5570	AA	GG	1947008622
SNP_P4_161233_5631	NW_004516635.1	Scaffold1426	5631	TT	AA	1947008624
SNP_P4_161234_5786	NW_004516635.1	Scaffold1426	5786	CC	TT	1947008626
SNP_P4_161236_5971	NW_004516635.1	Scaffold1426	5971	TT	GG	1947008628
SNP_P4_161237_6191	NW_004516635.1	Scaffold1426	6191	TT	GG	1947008630
SNP_P4_161238_6209	NW_004516635.1	Scaffold1426	6209	TT	CC	1947008632
SNP_P4_161239_6220	NW_004516635.1	Scaffold1426	6220	AA	GG	1947008634
SNP_P4_161240_6332	NW_004516635.1	Scaffold1426	6332	AA	TT	1947008636
SNP_P4_161242_6855	NW_004516635.1	Scaffold1426	6855	CC	TT	1947008638
SNP_P4_161243_7007	NW_004516635.1	Scaffold1426	7007	CC	AA	1947008639
SNP_P4_161244_7023	NW_004516635.1	Scaffold1426	7023	TT	CC	1947008641
SNP_P4_161245_7044	NW_004516635.1	Scaffold1426	7044	AA	GG	1947008643
SNP_P4_161246_7073	NW_004516635.1	Scaffold1426	7073	AA	TT	1947008645
SNP_P4_161248_7241	NW_004516635.1	Scaffold1426	7241	AA	GG	1947008647
SNP_P4_161249_7380	NW_004516635.1	Scaffold1426	7380	TT	CC	1947008649
SNP_P4_161250_7412	NW_004516635.1	Scaffold1426	7412	CC	GG	1947008651
SNP_P4_161251_7529	NW_004516635.1	Scaffold1426	7529	CC	TT	1947008653
SNP_P4_161252_11275	NW_004516635.1	Scaffold1426	11275	TT	CC	1947008655
SNP_P4_161253_11640	NW_004516635.1	Scaffold1426	11640	AA	TT	1947008657
SNP_P4_161254_738	NW_004516636.1	Scaffold1429	738	AA	TT	1947008659
SNP_P4_161255_820	NW_004516636.1	Scaffold1429	820	AA	GG	1947008661
SNP_P4_161256_858	NW_004516636.1	Scaffold1429	858	TT	GG	1947008663
SNP_P4_161257_862	NW_004516636.1	Scaffold1429	862	CC	GG	1947008665
SNP_P4_161258_1234	NW_004516637.1	Scaffold1430	1234	CC	GG	1947008667
SNP_P4_161260_2296	NW_004516637.1	Scaffold1430	2296	GG	CC	1947008668
SNP_P4_161261_4491	NW_004516637.1	Scaffold1430	4491	GG	AA	1947008670
SNP_P4_161262_4830	NW_004516637.1	Scaffold1430	4830	GG	AA	1947008672
SNP_P4_161263_4841	NW_004516637.1	Scaffold1430	4841	TT	AA	1947008674
SNP_P4_161264_4846	NW_004516637.1	Scaffold1430	4846	GG	AA	1947008676
SNP_P4_161266_8456	NW_004516637.1	Scaffold1430	8456	AA	TT	1947008678
SNP_P4_161267_8509	NW_004516637.1	Scaffold1430	8509	CC	TT	1947008680
SNP_P4_161269_8754	NW_004516637.1	Scaffold1430	8754	GG	AA	1947008682
SNP_P4_161270_8813	NW_004516637.1	Scaffold1430	8813	GG	TT	1947008684
SNP_P4_161271_8817	NW_004516637.1	Scaffold1430	8817	GG	TT	1947008686
SNP_P4_161273_4310	NW_004516638.1	Scaffold1432	4310	TT	AA	1947008688
SNP_P4_161274_7934	NW_004516638.1	Scaffold1432	7934	CC	TT	1947008690
SNP_P4_161275_8233	NW_004516638.1	Scaffold1432	8233	GG	TT	1947008692

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_161277_34628	NW_004516638.1	Scaffold1432	34628	CC	TT	1947008696
SNP_P4_161278_38624	NW_004516638.1	Scaffold1432	38624	TT	CC	1947008698
SNP_P4_161279_51246	NW_004516638.1	Scaffold1432	51246	AA	GG	1947008700
SNP_P4_161280_75775	NW_004516638.1	Scaffold1432	75775	AA	GG	1947008702
SNP_P4_161281_79988	NW_004516638.1	Scaffold1432	79988	TT	CC	1947008704
SNP_P4_161282_80033	NW_004516638.1	Scaffold1432	80033	TT	CC	1947008706
SNP_P4_161283_80113	NW_004516638.1	Scaffold1432	80113	CC	AA	1947008708
SNP_P4_161284_80134	NW_004516638.1	Scaffold1432	80134	TT	CC	1947008710
SNP_P4_161285_80235	NW_004516638.1	Scaffold1432	80235	TT	AA	1947008712
SNP_P4_161286_80283	NW_004516638.1	Scaffold1432	80283	TT	AA	1947008714
SNP_P4_161287_80327	NW_004516638.1	Scaffold1432	80327	CC	TT	1947008716
SNP_P4_161288_80344	NW_004516638.1	Scaffold1432	80344	GG	AA	1947008717
SNP_P4_161289_80402	NW_004516638.1	Scaffold1432	80402	CC	AA	1947008719
SNP_P4_161292_80595	NW_004516638.1	Scaffold1432	80595	AA	CC	1947008721
SNP_P4_161293_80627	NW_004516638.1	Scaffold1432	80627	AA	GG	1947008723
SNP_P4_161294_80688	NW_004516638.1	Scaffold1432	80688	TT	AA	1947008725
SNP_P4_161295_80792	NW_004516638.1	Scaffold1432	80792	CC	GG	1947008727
SNP_P4_161296_64	NW_004516639.1	Scaffold1433	64	CC	AA	1947008729
SNP_P4_161297_449	NW_004516639.1	Scaffold1433	449	AA	CC	1947008731
SNP_P4_161298_479	NW_004516639.1	Scaffold1433	479	CC	TT	1947008733
SNP_P4_161299_4936	NW_004516639.1	Scaffold1433	4936	AA	GG	1947008735
SNP_P4_161300_4943	NW_004516639.1	Scaffold1433	4943	TT	GG	1947008737
SNP_P4_161301_6365	NW_004516639.1	Scaffold1433	6365	AA	TT	1947008739
SNP_P4_161302_8286	NW_004516639.1	Scaffold1433	8286	AA	GG	1947008741
SNP_P4_161303_8312	NW_004516639.1	Scaffold1433	8312	TT	GG	1947008743
SNP_P4_161304_8331	NW_004516639.1	Scaffold1433	8331	AA	TT	1947008745
SNP_P4_161305_8358	NW_004516639.1	Scaffold1433	8358	AA	GG	1947008747
SNP_P4_161306_8547	NW_004516639.1	Scaffold1433	8547	GG	AA	1947008749
SNP_P4_161307_8606	NW_004516639.1	Scaffold1433	8606	GG	AA	1947008751
SNP_P4_161308_8617	NW_004516639.1	Scaffold1433	8617	TT	CC	1947008753
SNP_P4_161309_8663	NW_004516639.1	Scaffold1433	8663	TT	CC	1947008755
SNP_P4_161310_8757	NW_004516639.1	Scaffold1433	8757	AA	GG	1947008757
SNP_P4_161311_9052	NW_004516639.1	Scaffold1433	9052	CC	AA	1947008759
SNP_P4_161312_9094	NW_004516639.1	Scaffold1433	9094	AA	CC	1947008761
SNP_P4_161313_9327	NW_004516639.1	Scaffold1433	9327	AA	GG	1947008763
SNP_P4_161314_9416	NW_004516639.1	Scaffold1433	9416	CC	AA	1947008765
SNP_P4_161315_10398	NW_004516639.1	Scaffold1433	10398	TT	AA	1947008767
SNP_P4_161316_10414	NW_004516639.1	Scaffold1433	10414	TT	CC	1947008769
SNP_P4_161317_10597	NW_004516639.1	Scaffold1433	10597	CC	TT	1947008771
SNP_P4_161318_10777	NW_004516639.1	Scaffold1433	10777	GG	TT	1947008773
SNP_P4_161319_14943	NW_004516639.1	Scaffold1433	14943	CC	AA	1947008775

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_161320_15512	NW_004516639.1	Scaffold1433	15512	TT	GG	1947008776
SNP_P4_161321_15716	NW_004516639.1	Scaffold1433	15716	GG	AA	1947008778
SNP_P4_161322_15737	NW_004516639.1	Scaffold1433	15737	GG	AA	1947008780
SNP_P4_161323_15750	NW_004516639.1	Scaffold1433	15750	AA	GG	1947008782
SNP_P4_161324_15787	NW_004516639.1	Scaffold1433	15787	CC	AA	1947008785
SNP_P4_161325_15798	NW_004516639.1	Scaffold1433	15798	GG	AA	1947008786
SNP_P4_161326_15861	NW_004516639.1	Scaffold1433	15861	CC	AA	1947008788
SNP_P4_161327_15865	NW_004516639.1	Scaffold1433	15865	GG	TT	1947008790
SNP_P4_161328_17153	NW_004516639.1	Scaffold1433	17153	AA	GG	1947008792
SNP_P4_161329_18517	NW_004516639.1	Scaffold1433	18517	GG	AA	1947008795
SNP_P4_161330_18568	NW_004516639.1	Scaffold1433	18568	GG	AA	1947008797
SNP_P4_161331_18733	NW_004516639.1	Scaffold1433	18733	AA	GG	1947008798
SNP_P4_161332_18927	NW_004516639.1	Scaffold1433	18927	AA	CC	1947008799
SNP_P4_161333_18945	NW_004516639.1	Scaffold1433	18945	TT	CC	1947008800
SNP_P4_161334_19088	NW_004516639.1	Scaffold1433	19088	TT	GG	1947008801
SNP_P4_161335_19090	NW_004516639.1	Scaffold1433	19090	TT	CC	1947008802
SNP_P4_161336_19365	NW_004516639.1	Scaffold1433	19365	AA	CC	1947008803
SNP_P4_161337_19554	NW_004516639.1	Scaffold1433	19554	CC	TT	1947008804
SNP_P4_161338_20798	NW_004516639.1	Scaffold1433	20798	AA	CC	1947008805
SNP_P4_161339_21054	NW_004516639.1	Scaffold1433	21054	GG	TT	1947008806
SNP_P4_161340_21076	NW_004516639.1	Scaffold1433	21076	AA	GG	1947008807
SNP_P4_161341_21080	NW_004516639.1	Scaffold1433	21080	GG	AA	1947008808
SNP_P4_161342_21121	NW_004516639.1	Scaffold1433	21121	AA	CC	1947008809
SNP_P4_161344_21161	NW_004516639.1	Scaffold1433	21161	CC	TT	1947008810
SNP_P4_161346_21298	NW_004516639.1	Scaffold1433	21298	GG	AA	1947008811
SNP_P4_161347_21401	NW_004516639.1	Scaffold1433	21401	TT	CC	1947008812
SNP_P4_161348_21435	NW_004516639.1	Scaffold1433	21435	TT	AA	1947008813
SNP_P4_161349_21534	NW_004516639.1	Scaffold1433	21534	TT	GG	1947008814
SNP_P4_161350_21627	NW_004516639.1	Scaffold1433	21627	TT	GG	1947008815
SNP_P4_161351_21662	NW_004516639.1	Scaffold1433	21662	AA	TT	1947008816
SNP_P4_161352_21696	NW_004516639.1	Scaffold1433	21696	GG	AA	1947008817
SNP_P4_161353_21735	NW_004516639.1	Scaffold1433	21735	TT	GG	1947008818
SNP_P4_161355_21803	NW_004516639.1	Scaffold1433	21803	GG	TT	1947008819
SNP_P4_161356_21828	NW_004516639.1	Scaffold1433	21828	GG	AA	1947008820
SNP_P4_161357_21886	NW_004516639.1	Scaffold1433	21886	CC	TT	1947008821
SNP_P4_161359_22036	NW_004516639.1	Scaffold1433	22036	CC	GG	1947008822
SNP_P4_161360_22054	NW_004516639.1	Scaffold1433	22054	CC	AA	1947008823
SNP_P4_161361_22055	NW_004516639.1	Scaffold1433	22055	TT	CC	1947008824
SNP_P4_161362_22157	NW_004516639.1	Scaffold1433	22157	CC	AA	1947008825
SNP_P4_161363_22163	NW_004516639.1	Scaffold1433	22163	CC	AA	1947008826
SNP_P4_161364_22184	NW_004516639.1	Scaffold1433	22184	AA	CC	1947008828
SNP_P4_161365_22214	NW_004516639.1	Scaffold1433	22214	TT	CC	1947008830

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_161366_22223	NW_004516639.1	Scaffold1433	22223	CC	AA	1947008832
SNP_P4_161367_22239	NW_004516639.1	Scaffold1433	22239	GG	AA	1947008834
SNP_P4_161368_22328	NW_004516639.1	Scaffold1433	22328	TT	GG	1947008836
SNP_P4_161369_22331	NW_004516639.1	Scaffold1433	22331	GG	TT	1947008838
SNP_P4_161370_22393	NW_004516639.1	Scaffold1433	22393	GG	CC	1947008840
SNP_P4_161371_22413	NW_004516639.1	Scaffold1433	22413	TT	GG	1947008842
SNP_P4_161372_22457	NW_004516639.1	Scaffold1433	22457	AA	GG	1947008844
SNP_P4_161373_22489	NW_004516639.1	Scaffold1433	22489	CC	TT	1947008846
SNP_P4_161374_22493	NW_004516639.1	Scaffold1433	22493	CC	TT	1947008848
SNP_P4_161375_22527	NW_004516639.1	Scaffold1433	22527	CC	TT	1947008850
SNP_P4_161376_22543	NW_004516639.1	Scaffold1433	22543	AA	TT	1947008852
SNP_P4_161377_22584	NW_004516639.1	Scaffold1433	22584	TT	AA	1947008854
SNP_P4_161378_22669	NW_004516639.1	Scaffold1433	22669	TT	CC	1947008856
SNP_P4_161379_22692	NW_004516639.1	Scaffold1433	22692	AA	GG	1947008858
SNP_P4_161380_22818	NW_004516639.1	Scaffold1433	22818	CC	AA	1947008860
SNP_P4_161381_22870	NW_004516639.1	Scaffold1433	22870	TT	GG	1947008862
SNP_P4_161382_22935	NW_004516639.1	Scaffold1433	22935	CC	AA	1947008864
SNP_P4_161383_22967	NW_004516639.1	Scaffold1433	22967	GG	CC	1947008866
SNP_P4_161384_23040	NW_004516639.1	Scaffold1433	23040	AA	TT	1947008868
SNP_P4_161385_24689	NW_004516639.1	Scaffold1433	24689	CC	TT	1947008870
SNP_P4_161386_24698	NW_004516639.1	Scaffold1433	24698	CC	TT	1947008872
SNP_P4_161387_24700	NW_004516639.1	Scaffold1433	24700	AA	TT	1947008874
SNP_P4_161388_24737	NW_004516639.1	Scaffold1433	24737	AA	GG	1947008875
SNP_P4_161389_24979	NW_004516639.1	Scaffold1433	24979	AA	GG	1947008877
SNP_P4_161390_25009	NW_004516639.1	Scaffold1433	25009	GG	AA	1947008879
SNP_P4_161391_25051	NW_004516639.1	Scaffold1433	25051	AA	GG	1947008881
SNP_P4_161392_25104	NW_004516639.1	Scaffold1433	25104	TT	CC	1947008883
SNP_P4_161393_25106	NW_004516639.1	Scaffold1433	25106	GG	TT	1947008885
SNP_P4_161394_25552	NW_004516639.1	Scaffold1433	25552	CC	GG	1947008887
SNP_P4_161395_25594	NW_004516639.1	Scaffold1433	25594	TT	CC	1947008889
SNP_P4_161396_25630	NW_004516639.1	Scaffold1433	25630	TT	CC	1947008891
SNP_P4_161397_25655	NW_004516639.1	Scaffold1433	25655	GG	AA	1947008893
SNP_P4_161398_25834	NW_004516639.1	Scaffold1433	25834	AA	TT	1947008895
SNP_P4_161399_25835	NW_004516639.1	Scaffold1433	25835	CC	TT	1947008897
SNP_P4_161400_25889	NW_004516639.1	Scaffold1433	25889	GG	CC	1947008899
SNP_P4_161401_25902	NW_004516639.1	Scaffold1433	25902	GG	AA	1947008901
SNP_P4_161402_30564	NW_004516639.1	Scaffold1433	30564	CC	GG	1947008903
SNP_P4_161403_32045	NW_004516639.1	Scaffold1433	32045	AA	CC	1947008905
SNP_P4_161404_33296	NW_004516639.1	Scaffold1433	33296	TT	CC	1947008907
SNP_P4_161405_33555	NW_004516639.1	Scaffold1433	33555	AA	TT	1947008909
SNP_P4_161406_33556	NW_004516639.1	Scaffold1433	33556	GG	AA	1947008911
SNP_P4_161409_33992	NW_004516639.1	Scaffold1433	33992	AA	TT	1947008913

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_161411_1305	NW_004516640.1	Scaffold1436	1305	GG	AA	1947008917
SNP_P4_161412_1593	NW_004516640.1	Scaffold1436	1593	GG	AA	1947008919
SNP_P4_161413_55	NW_004516641.1	Scaffold1437	55	GG	AA	1947008921
SNP_P4_161414_64	NW_004516641.1	Scaffold1437	64	CC	TT	1947008923
SNP_P4_161415_85	NW_004516641.1	Scaffold1437	85	AA	GG	1947008925
SNP_P4_161416_98	NW_004516641.1	Scaffold1437	98	TT	CC	1947008927
SNP_P4_161417_375	NW_004516641.1	Scaffold1437	375	TT	CC	1947008929
SNP_P4_161418_11651	NW_004516641.1	Scaffold1437	11651	CC	GG	1947008931
SNP_P4_161419_11735	NW_004516641.1	Scaffold1437	11735	GG	TT	1947008933
SNP_P4_161420_11773	NW_004516641.1	Scaffold1437	11773	GG	AA	1947008935
SNP_P4_161421_12378	NW_004516641.1	Scaffold1437	12378	CC	GG	1947008937
SNP_P4_161422_6372	NW_004516642.1	Scaffold1439	6372	GG	AA	1947008939
SNP_P4_161423_33459	NW_004516642.1	Scaffold1439	33459	CC	TT	1947008941
SNP_P4_161424_54963	NW_004516642.1	Scaffold1439	54963	AA	TT	1947008943
SNP_P4_161425_57926	NW_004516642.1	Scaffold1439	57926	TT	CC	1947008945
SNP_P4_161426_95978	NW_004516642.1	Scaffold1439	95978	CC	TT	1947008948
SNP_P4_161427_122316	NW_004516642.1	Scaffold1439	122316	TT	CC	1947008950
SNP_P4_161428_122364	NW_004516642.1	Scaffold1439	122364	TT	CC	1947008952
SNP_P4_161430_199541	NW_004516642.1	Scaffold1439	199541	TT	AA	1947008954
SNP_P4_161431_199598	NW_004516642.1	Scaffold1439	199598	GG	TT	1947008956
SNP_P4_161432_199599	NW_004516642.1	Scaffold1439	199599	CC	GG	1947008958
SNP_P4_161433_206183	NW_004516642.1	Scaffold1439	206183	TT	AA	1947008960
SNP_P4_161434_206203	NW_004516642.1	Scaffold1439	206203	GG	AA	1947008962
SNP_P4_161435_206204	NW_004516642.1	Scaffold1439	206204	TT	CC	1947008964
SNP_P4_161436_209568	NW_004516642.1	Scaffold1439	209568	AA	GG	1947008966
SNP_P4_161437_209580	NW_004516642.1	Scaffold1439	209580	AA	GG	1947008968
SNP_P4_161438_209634	NW_004516642.1	Scaffold1439	209634	AA	GG	1947008970
SNP_P4_161439_222751	NW_004516642.1	Scaffold1439	222751	AA	GG	1947008972
SNP_P4_161440_224739	NW_004516642.1	Scaffold1439	224739	CC	AA	1947008974
SNP_P4_161441_224750	NW_004516642.1	Scaffold1439	224750	GG	AA	1947008976
SNP_P4_161442_248568	NW_004516642.1	Scaffold1439	248568	GG	TT	1947008978
SNP_P4_161443_248624	NW_004516642.1	Scaffold1439	248624	AA	GG	1947008980
SNP_P4_161444_248700	NW_004516642.1	Scaffold1439	248700	TT	CC	1947008982
SNP_P4_161445_249340	NW_004516642.1	Scaffold1439	249340	AA	CC	1947008984
SNP_P4_161446_272774	NW_004516642.1	Scaffold1439	272774	GG	AA	1947008987
SNP_P4_161447_274440	NW_004516642.1	Scaffold1439	274440	CC	TT	1947008989
SNP_P4_161448_281509	NW_004516642.1	Scaffold1439	281509	TT	GG	1947008991
SNP_P4_161449_281511	NW_004516642.1	Scaffold1439	281511	CC	TT	1947008993
SNP_P4_161451_284017	NW_004516642.1	Scaffold1439	284017	GG	AA	1947008995
SNP_P4_161452_286418	NW_004516642.1	Scaffold1439	286418	CC	AA	1947008997
SNP_P4_161453_1262	NW_004516643.1	Scaffold1440	1262	AA	GG	1947008999

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_161455_2728	NW_004516643.1	Scaffold1440	2728	GG	TT	1947009003
SNP_P4_161456_2729	NW_004516643.1	Scaffold1440	2729	AA	GG	1947009005
SNP_P4_161457_2730	NW_004516643.1	Scaffold1440	2730	TT	AA	1947009007
SNP_P4_161458_2782	NW_004516643.1	Scaffold1440	2782	CC	TT	1947009009
SNP_P4_161459_2790	NW_004516643.1	Scaffold1440	2790	TT	CC	1947009011
SNP_P4_161460_2843	NW_004516643.1	Scaffold1440	2843	GG	TT	1947009013
SNP_P4_161461_2861	NW_004516643.1	Scaffold1440	2861	CC	TT	1947009015
SNP_P4_161462_2871	NW_004516643.1	Scaffold1440	2871	CC	GG	1947009017
SNP_P4_161463_3029	NW_004516643.1	Scaffold1440	3029	AA	GG	1947009019
SNP_P4_161464_3088	NW_004516643.1	Scaffold1440	3088	TT	CC	1947009021
SNP_P4_161465_3091	NW_004516643.1	Scaffold1440	3091	AA	TT	1947009023
SNP_P4_161466_3099	NW_004516643.1	Scaffold1440	3099	TT	GG	1947009025
SNP_P4_161467_3121	NW_004516643.1	Scaffold1440	3121	TT	CC	1947009027
SNP_P4_161468_3155	NW_004516643.1	Scaffold1440	3155	AA	GG	1947009029
SNP_P4_161469_3197	NW_004516643.1	Scaffold1440	3197	AA	CC	1947009031
SNP_P4_161470_49062	NW_004516643.1	Scaffold1440	49062	GG	AA	1947009033
SNP_P4_161471_49207	NW_004516643.1	Scaffold1440	49207	CC	TT	1947009035
SNP_P4_161472_49577	NW_004516643.1	Scaffold1440	49577	GG	CC	1947009037
SNP_P4_161473_49624	NW_004516643.1	Scaffold1440	49624	CC	TT	1947009039
SNP_P4_161474_51698	NW_004516643.1	Scaffold1440	51698	TT	AA	1947009041
SNP_P4_161476_1291	NW_004516646.1	Scaffold1445	1291	AA	TT	1947009043
SNP_P4_161477_1407	NW_004516646.1	Scaffold1445	1407	TT	AA	1947009045
SNP_P4_161478_1498	NW_004516646.1	Scaffold1445	1498	GG	AA	1947009047
SNP_P4_161479_4312	NW_004516646.1	Scaffold1445	4312	CC	TT	1947009049
SNP_P4_161480_4353	NW_004516646.1	Scaffold1445	4353	TT	CC	1947009051
SNP_P4_161481_11301	NW_004516647.1	Scaffold1446	11301	GG	AA	1947009053
SNP_P4_161482_12127	NW_004516647.1	Scaffold1446	12127	CC	TT	1947009055
SNP_P4_161483_20572	NW_004516647.1	Scaffold1446	20572	CC	TT	1947009057
SNP_P4_161484_20581	NW_004516647.1	Scaffold1446	20581	TT	AA	1947009059
SNP_P4_161486_22081	NW_004516647.1	Scaffold1446	22081	CC	GG	1947009061
SNP_P4_161487_22932	NW_004516647.1	Scaffold1446	22932	TT	CC	1947009063
SNP_P4_161488_5879	NW_004516648.1	Scaffold1447	5879	CC	TT	1947009065
SNP_P4_161489_11576	NW_004516648.1	Scaffold1447	11576	GG	CC	1947009067
SNP_P4_161490_17747	NW_004516648.1	Scaffold1447	17747	GG	AA	1947009069
SNP_P4_161491_17816	NW_004516648.1	Scaffold1447	17816	GG	TT	1947009071
SNP_P4_161492_20033	NW_004516648.1	Scaffold1447	20033	CC	TT	1947009073
SNP_P4_161493_20053	NW_004516648.1	Scaffold1447	20053	AA	GG	1947009075
SNP_P4_161494_20108	NW_004516648.1	Scaffold1447	20108	TT	CC	1947009077
SNP_P4_161495_20163	NW_004516648.1	Scaffold1447	20163	TT	GG	1947009079
SNP_P4_161496_20164	NW_004516648.1	Scaffold1447	20164	TT	AA	1947009081
SNP_P4_161497_20215	NW_004516648.1	Scaffold1447	20215	GG	AA	1947009083

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_161500_20366	NW_004516648.1	Scaffold1447	20366	TT	CC	1947009087
SNP_P4_161501_20381	NW_004516648.1	Scaffold1447	20381	AA	TT	1947009089
SNP_P4_161503_20390	NW_004516648.1	Scaffold1447	20390	CC	TT	1947009091
SNP_P4_161504_20418	NW_004516648.1	Scaffold1447	20418	AA	GG	1947009093
SNP_P4_161505_20423	NW_004516648.1	Scaffold1447	20423	CC	TT	1947009095
SNP_P4_161506_20438	NW_004516648.1	Scaffold1447	20438	TT	CC	1947009097
SNP_P4_161507_20439	NW_004516648.1	Scaffold1447	20439	CC	TT	1947009099
SNP_P4_161508_20450	NW_004516648.1	Scaffold1447	20450	GG	TT	1947009101
SNP_P4_161509_21271	NW_004516648.1	Scaffold1447	21271	TT	CC	1947009103
SNP_P4_161510_21579	NW_004516648.1	Scaffold1447	21579	TT	CC	1947009105
SNP_P4_161511_21600	NW_004516648.1	Scaffold1447	21600	AA	GG	1947009107
SNP_P4_161512_21615	NW_004516648.1	Scaffold1447	21615	GG	TT	1947009109
SNP_P4_161513_21660	NW_004516648.1	Scaffold1447	21660	TT	AA	1947009111
SNP_P4_161514_21675	NW_004516648.1	Scaffold1447	21675	TT	GG	1947009113
SNP_P4_161515_21684	NW_004516648.1	Scaffold1447	21684	TT	CC	1947009114
SNP_P4_161517_22830	NW_004516648.1	Scaffold1447	22830	TT	CC	1947009116
SNP_P4_161518_23239	NW_004516648.1	Scaffold1447	23239	AA	TT	1947009118
SNP_P4_161519_24328	NW_004516648.1	Scaffold1447	24328	TT	GG	1947009120
SNP_P4_161520_24370	NW_004516648.1	Scaffold1447	24370	CC	TT	1947009122
SNP_P4_161521_24371	NW_004516648.1	Scaffold1447	24371	AA	GG	1947009124
SNP_P4_161522_24600	NW_004516648.1	Scaffold1447	24600	TT	AA	1947009126
SNP_P4_161523_24635	NW_004516648.1	Scaffold1447	24635	TT	CC	1947009128
SNP_P4_161524_24663	NW_004516648.1	Scaffold1447	24663	AA	CC	1947009131
SNP_P4_161525_24672	NW_004516648.1	Scaffold1447	24672	TT	CC	1947009133
SNP_P4_161526_24684	NW_004516648.1	Scaffold1447	24684	GG	AA	1947009135
SNP_P4_161527_24746	NW_004516648.1	Scaffold1447	24746	TT	CC	1947009137
SNP_P4_161528_24780	NW_004516648.1	Scaffold1447	24780	GG	AA	1947009139
SNP_P4_161529_25667	NW_004516648.1	Scaffold1447	25667	AA	CC	1947009141
SNP_P4_161530_25703	NW_004516648.1	Scaffold1447	25703	AA	CC	1947009143
SNP_P4_161531_26052	NW_004516648.1	Scaffold1447	26052	GG	AA	1947009145
SNP_P4_161532_26280	NW_004516648.1	Scaffold1447	26280	AA	TT	1947009147
SNP_P4_161533_26295	NW_004516648.1	Scaffold1447	26295	GG	AA	1947009149
SNP_P4_161534_26336	NW_004516648.1	Scaffold1447	26336	CC	TT	1947009151
SNP_P4_161535_26338	NW_004516648.1	Scaffold1447	26338	CC	TT	1947009153
SNP_P4_161536_26340	NW_004516648.1	Scaffold1447	26340	AA	GG	1947009155
SNP_P4_161537_30861	NW_004516648.1	Scaffold1447	30861	GG	CC	1947009157
SNP_P4_161538_30872	NW_004516648.1	Scaffold1447	30872	TT	AA	1947009159
SNP_P4_161539_30879	NW_004516648.1	Scaffold1447	30879	CC	TT	1947009161
SNP_P4_161540_30964	NW_004516648.1	Scaffold1447	30964	CC	TT	1947009163
SNP_P4_161541_31057	NW_004516648.1	Scaffold1447	31057	CC	GG	1947009165
SNP_P4_161542_31107	NW_004516648.1	Scaffold1447	31107	GG	AA	1947009167

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_161544_33824	NW_004516648.1	Scaffold1447	33824	AA	CC	1947009171
SNP_P4_161545_43349	NW_004516648.1	Scaffold1447	43349	CC	TT	1947009173
SNP_P4_161546_861	NW_004516649.1	Scaffold1448	861	GG	AA	1947009175
SNP_P4_161547_5509	NW_004516649.1	Scaffold1448	5509	GG	CC	1947009177
SNP_P4_161548_6364	NW_004516649.1	Scaffold1448	6364	GG	AA	1947009179
SNP_P4_161549_7253	NW_004516649.1	Scaffold1448	7253	CC	AA	1947009180
SNP_P4_161552_12043	NW_004516649.1	Scaffold1448	12043	TT	GG	1947009183
SNP_P4_161553_16861	NW_004516649.1	Scaffold1448	16861	TT	CC	1947009185
SNP_P4_161554_20698	NW_004516649.1	Scaffold1448	20698	CC	AA	1947009187
SNP_P4_161555_20706	NW_004516649.1	Scaffold1448	20706	AA	GG	1947009189
SNP_P4_161556_20749	NW_004516649.1	Scaffold1448	20749	TT	CC	1947009191
SNP_P4_161557_20751	NW_004516649.1	Scaffold1448	20751	TT	GG	1947009193
SNP_P4_161558_20990	NW_004516649.1	Scaffold1448	20990	AA	GG	1947009195
SNP_P4_161559_21025	NW_004516649.1	Scaffold1448	21025	AA	CC	1947009197
SNP_P4_161560_21034	NW_004516649.1	Scaffold1448	21034	GG	TT	1947009199
SNP_P4_161561_21039	NW_004516649.1	Scaffold1448	21039	AA	GG	1947009201
SNP_P4_161562_21095	NW_004516649.1	Scaffold1448	21095	CC	AA	1947009203
SNP_P4_161563_21098	NW_004516649.1	Scaffold1448	21098	TT	CC	1947009205
SNP_P4_161564_21444	NW_004516649.1	Scaffold1448	21444	GG	AA	1947009207
SNP_P4_161565_29564	NW_004516649.1	Scaffold1448	29564	GG	CC	1947009209
SNP_P4_161567_34553	NW_004516649.1	Scaffold1448	34553	GG	TT	1947009211
SNP_P4_161569_37707	NW_004516649.1	Scaffold1448	37707	TT	CC	1947009213
SNP_P4_161571_39731	NW_004516649.1	Scaffold1448	39731	CC	TT	1947009215
SNP_P4_161572_40358	NW_004516649.1	Scaffold1448	40358	TT	CC	1947009217
SNP_P4_161573_40798	NW_004516649.1	Scaffold1448	40798	CC	AA	1947009219
SNP_P4_161574_42593	NW_004516649.1	Scaffold1448	42593	AA	TT	1947009221
SNP_P4_161576_77231	NW_004516649.1	Scaffold1448	77231	AA	TT	1947009223
SNP_P4_161577_77734	NW_004516649.1	Scaffold1448	77734	AA	GG	1947009225
SNP_P4_161578_78836	NW_004516649.1	Scaffold1448	78836	AA	GG	1947009227
SNP_P4_161579_79659	NW_004516649.1	Scaffold1448	79659	TT	CC	1947009230
SNP_P4_161580_79663	NW_004516649.1	Scaffold1448	79663	CC	AA	1947009232
SNP_P4_161581_80510	NW_004516649.1	Scaffold1448	80510	AA	GG	1947009234
SNP_P4_161582_81739	NW_004516649.1	Scaffold1448	81739	TT	CC	1947009236
SNP_P4_161583_88362	NW_004516649.1	Scaffold1448	88362	GG	CC	1947009238
SNP_P4_161584_90092	NW_004516649.1	Scaffold1448	90092	GG	CC	1947009240
SNP_P4_161585_90100	NW_004516649.1	Scaffold1448	90100	AA	GG	1947009242
SNP_P4_161586_90420	NW_004516649.1	Scaffold1448	90420	GG	AA	1947009244
SNP_P4_161587_98811	NW_004516649.1	Scaffold1448	98811	CC	GG	1947009246
SNP_P4_161588_99081	NW_004516649.1	Scaffold1448	99081	GG	AA	1947009248
SNP_P4_161591_100766	NW_004516649.1	Scaffold1448	100766	AA	GG	1947009250
SNP_P4_161592_101606	NW_004516649.1	Scaffold1448	101606	AA	TT	1947009252

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_161594_113511	NW_004516649.1	Scaffold1448	113511	AA	GG	1947009256
SNP_P4_161595_116749	NW_004516649.1	Scaffold1448	116749	TT	CC	1947009258
SNP_P4_161596_118021	NW_004516649.1	Scaffold1448	118021	GG	AA	1947009260
SNP_P4_161597_118343	NW_004516649.1	Scaffold1448	118343	AA	GG	1947009262
SNP_P4_161598_132646	NW_004516649.1	Scaffold1448	132646	AA	CC	1947009264
SNP_P4_161599_132992	NW_004516649.1	Scaffold1448	132992	AA	CC	1947009266
SNP_P4_161602_141192	NW_004516649.1	Scaffold1448	141192	GG	AA	1947009268
SNP_P4_161603_144037	NW_004516649.1	Scaffold1448	144037	TT	CC	1947009270
SNP_P4_161604_144038	NW_004516649.1	Scaffold1448	144038	CC	TT	1947009272
SNP_P4_161606_2815	NW_004516650.1	Scaffold1449	2815	TT	CC	1947009274
SNP_P4_161607_3136	NW_004516650.1	Scaffold1449	3136	CC	TT	1947009276
SNP_P4_161608_3377	NW_004516650.1	Scaffold1449	3377	CC	AA	1947009278
SNP_P4_161609_3494	NW_004516650.1	Scaffold1449	3494	AA	GG	1947009280
SNP_P4_161610_3530	NW_004516650.1	Scaffold1449	3530	TT	CC	1947009282
SNP_P4_161611_3537	NW_004516650.1	Scaffold1449	3537	CC	GG	1947009284
SNP_P4_161613_6567	NW_004516650.1	Scaffold1449	6567	TT	GG	1947009286
SNP_P4_161614_6752	NW_004516650.1	Scaffold1449	6752	TT	CC	1947009288
SNP_P4_161615_6765	NW_004516650.1	Scaffold1449	6765	CC	GG	1947009290
SNP_P4_161616_6844	NW_004516650.1	Scaffold1449	6844	AA	GG	1947009292
SNP_P4_161617_6921	NW_004516650.1	Scaffold1449	6921	TT	AA	1947009294
SNP_P4_161618_7149	NW_004516650.1	Scaffold1449	7149	AA	GG	1947009296
SNP_P4_161619_7581	NW_004516650.1	Scaffold1449	7581	AA	CC	1947009298
SNP_P4_161620_7638	NW_004516650.1	Scaffold1449	7638	GG	AA	1947009300
SNP_P4_161621_7668	NW_004516650.1	Scaffold1449	7668	GG	TT	1947009302
SNP_P4_161622_11307	NW_004516650.1	Scaffold1449	11307	TT	CC	1947009304
SNP_P4_161623_19493	NW_004516650.1	Scaffold1449	19493	TT	CC	1947009306
SNP_P4_161624_19528	NW_004516650.1	Scaffold1449	19528	GG	TT	1947009308
SNP_P4_161625_19597	NW_004516650.1	Scaffold1449	19597	AA	GG	1947009310
SNP_P4_161626_28302	NW_004516650.1	Scaffold1449	28302	GG	AA	1947009312
SNP_P4_161627_45667	NW_004516650.1	Scaffold1449	45667	AA	GG	1947009315
SNP_P4_161628_45670	NW_004516650.1	Scaffold1449	45670	TT	AA	1947009317
SNP_P4_161629_45707	NW_004516650.1	Scaffold1449	45707	AA	GG	1947009319
SNP_P4_161630_45757	NW_004516650.1	Scaffold1449	45757	TT	CC	1947009321
SNP_P4_161631_45985	NW_004516650.1	Scaffold1449	45985	GG	TT	1947009323
SNP_P4_161632_46082	NW_004516650.1	Scaffold1449	46082	CC	AA	1947009326
SNP_P4_161633_46110	NW_004516650.1	Scaffold1449	46110	AA	GG	1947009328
SNP_P4_161634_47982	NW_004516650.1	Scaffold1449	47982	TT	CC	1947009330
SNP_P4_161635_54650	NW_004516650.1	Scaffold1449	54650	GG	CC	1947009332
SNP_P4_161636_55045	NW_004516650.1	Scaffold1449	55045	GG	TT	1947009334
SNP_P4_161637_59017	NW_004516650.1	Scaffold1449	59017	CC	TT	1947009336
SNP_P4_161639_17224	NW_004516651.1	Scaffold1450	17224	GG	AA	1947009338

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_161641_62698	NW_004516651.1	Scaffold1450	62698	GG	AA	1947009342
SNP_P4_161642_69211	NW_004516651.1	Scaffold1450	69211	TT	CC	1947009344
SNP_P4_161643_71846	NW_004516651.1	Scaffold1450	71846	AA	GG	1947009346
SNP_P4_161644_71870	NW_004516651.1	Scaffold1450	71870	GG	AA	1947009348
SNP_P4_161645_880	NW_004516653.1	Scaffold1452	880	AA	TT	1947009350
SNP_P4_161648_4016	NW_004516653.1	Scaffold1452	4016	GG	TT	1947009352
SNP_P4_161649_4080	NW_004516653.1	Scaffold1452	4080	AA	GG	1947009354
SNP_P4_161650_4088	NW_004516653.1	Scaffold1452	4088	CC	TT	1947009356
SNP_P4_161651_4090	NW_004516653.1	Scaffold1452	4090	AA	TT	1947009358
SNP_P4_161652_4107	NW_004516653.1	Scaffold1452	4107	TT	CC	1947009360
SNP_P4_161653_4123	NW_004516653.1	Scaffold1452	4123	GG	AA	1947009362
SNP_P4_161654_6389	NW_004516653.1	Scaffold1452	6389	GG	AA	1947009364
SNP_P4_161655_8057	NW_004516653.1	Scaffold1452	8057	GG	AA	1947009366
SNP_P4_161656_8359	NW_004516653.1	Scaffold1452	8359	GG	CC	1947009368
SNP_P4_161657_29667	NW_004516653.1	Scaffold1452	29667	TT	CC	1947009370
SNP_P4_161659_29820	NW_004516653.1	Scaffold1452	29820	TT	AA	1947009372
SNP_P4_161660_29854	NW_004516653.1	Scaffold1452	29854	TT	AA	1947009374
SNP_P4_161661_29871	NW_004516653.1	Scaffold1452	29871	AA	TT	1947009376
SNP_P4_161662_30013	NW_004516653.1	Scaffold1452	30013	CC	AA	1947009378
SNP_P4_161663_30110	NW_004516653.1	Scaffold1452	30110	TT	AA	1947009380
SNP_P4_161664_30167	NW_004516653.1	Scaffold1452	30167	TT	AA	1947009382
SNP_P4_161665_30196	NW_004516653.1	Scaffold1452	30196	AA	CC	1947009384
SNP_P4_161666_30205	NW_004516653.1	Scaffold1452	30205	CC	TT	1947009386
SNP_P4_161668_30221	NW_004516653.1	Scaffold1452	30221	CC	AA	1947009388
SNP_P4_161669_30289	NW_004516653.1	Scaffold1452	30289	GG	TT	1947009390
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SNP_P4_161672_30386	NW_004516653.1	Scaffold1452	30386	TT	GG	1947009396
SNP_P4_161673_30390	NW_004516653.1	Scaffold1452	30390	AA	TT	1947009398
SNP_P4_161674_30414	NW_004516653.1	Scaffold1452	30414	CC	AA	1947009400
SNP_P4_161675_30422	NW_004516653.1	Scaffold1452	30422	TT	GG	1947009402
SNP_P4_161676_30453	NW_004516653.1	Scaffold1452	30453	TT	CC	1947009404
SNP_P4_161677_30457	NW_004516653.1	Scaffold1452	30457	GG	TT	1947009406
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SNP_P4_161679_30487	NW_004516653.1	Scaffold1452	30487	GG	TT	1947009410
SNP_P4_161680_30490	NW_004516653.1	Scaffold1452	30490	AA	CC	1947009412
SNP_P4_161682_414	NW_004516654.1	Scaffold1453	414	GG	CC	1947009414
SNP_P4_161683_519	NW_004516654.1	Scaffold1453	519	AA	GG	1947009416
SNP_P4_161684_574	NW_004516654.1	Scaffold1453	574	AA	GG	1947009418
SNP_P4_161685_592	NW_004516654.1	Scaffold1453	592	TT	CC	1947009420
SNP_P4_161686_608	NW_004516654.1	Scaffold1453	608	TT	CC	1947009422

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_161688_10786	NW_004516654.1	Scaffold1453	10786	CC	TT	1947009426
SNP_P4_161689_12857	NW_004516654.1	Scaffold1453	12857	CC	TT	1947009428
SNP_P4_161690_17616	NW_004516654.1	Scaffold1453	17616	CC	AA	1947009431
SNP_P4_161691_25676	NW_004516654.1	Scaffold1453	25676	GG	TT	1947009433
SNP_P4_161692_25823	NW_004516654.1	Scaffold1453	25823	TT	AA	1947009435
SNP_P4_161693_34796	NW_004516654.1	Scaffold1453	34796	GG	AA	1947009437
SNP_P4_161694_34879	NW_004516654.1	Scaffold1453	34879	CC	AA	1947009439
SNP_P4_161695_35383	NW_004516654.1	Scaffold1453	35383	CC	TT	1947009441
SNP_P4_161696_42065	NW_004516654.1	Scaffold1453	42065	CC	TT	1947009443
SNP_P4_161697_42284	NW_004516654.1	Scaffold1453	42284	AA	CC	1947009445
SNP_P4_161698_51908	NW_004516654.1	Scaffold1453	51908	CC	GG	1947009447
SNP_P4_161699_82294	NW_004516654.1	Scaffold1453	82294	GG	CC	1947009449
SNP_P4_161700_87684	NW_004516654.1	Scaffold1453	87684	TT	GG	1947009451
SNP_P4_161701_99040	NW_004516654.1	Scaffold1453	99040	CC	TT	1947009453
SNP_P4_161702_99041	NW_004516654.1	Scaffold1453	99041	CC	AA	1947009455
SNP_P4_161703_108314	NW_004516654.1	Scaffold1453	108314	AA	GG	1947009457
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SNP_P4_161716_108904	NW_004516654.1	Scaffold1453	108904	AA	GG	1947009484
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SNP_P4_161718_109079	NW_004516654.1	Scaffold1453	109079	CC	TT	1947009488
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SNP_P4_161721_109134	NW_004516654.1	Scaffold1453	109134	GG	TT	1947009494
SNP_P4_161722_109135	NW_004516654.1	Scaffold1453	109135	GG	CC	1947009496
SNP_P4_161723_109144	NW_004516654.1	Scaffold1453	109144	CC	TT	1947009498
SNP_P4_161724_109214	NW_004516654.1	Scaffold1453	109214	CC	GG	1947009500
SNP_P4_161725_109222	NW_004516654.1	Scaffold1453	109222	TT	CC	1947009502
SNP_P4_161726_109297	NW_004516654.1	Scaffold1453	109297	CC	AA	1947009504
SNP_P4_161727_109307	NW_004516654.1	Scaffold1453	109307	AA	CC	1947009506
SNP_P4_161728_109465	NW_004516654.1	Scaffold1453	109465	TT	CC	1947009509

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_161731_111111	NW_004516654.1	Scaffold1453	111111	GG	AA	1947009515
SNP_P4_161732_6026	NW_004516655.1	Scaffold1455	6026	GG	AA	1947009517
SNP_P4_161733_6128	NW_004516655.1	Scaffold1455	6128	GG	CC	1947009519
SNP_P4_161734_6597	NW_004516655.1	Scaffold1455	6597	CC	AA	1947009521
SNP_P4_161735_6891	NW_004516655.1	Scaffold1455	6891	GG	AA	1947009523
SNP_P4_161736_7075	NW_004516655.1	Scaffold1455	7075	AA	GG	1947009525
SNP_P4_161737_7116	NW_004516655.1	Scaffold1455	7116	TT	AA	1947009527
SNP_P4_161738_7134	NW_004516655.1	Scaffold1455	7134	AA	CC	1947009529
SNP_P4_161739_10942	NW_004516655.1	Scaffold1455	10942	GG	TT	1947009531
SNP_P4_161740_11106	NW_004516655.1	Scaffold1455	11106	AA	GG	1947009533
SNP_P4_161741_11129	NW_004516655.1	Scaffold1455	11129	TT	CC	1947009535
SNP_P4_161742_11295	NW_004516655.1	Scaffold1455	11295	GG	AA	1947009537
SNP_P4_161743_11414	NW_004516655.1	Scaffold1455	11414	GG	AA	1947009539
SNP_P4_161744_11734	NW_004516655.1	Scaffold1455	11734	CC	TT	1947009541
SNP_P4_161745_11790	NW_004516655.1	Scaffold1455	11790	CC	TT	1947009543
SNP_P4_161746_12175	NW_004516655.1	Scaffold1455	12175	GG	AA	1947009545
SNP_P4_161747_12403	NW_004516655.1	Scaffold1455	12403	AA	GG	1947009547
SNP_P4_161748_12411	NW_004516655.1	Scaffold1455	12411	TT	AA	1947009549
SNP_P4_161749_12495	NW_004516655.1	Scaffold1455	12495	AA	CC	1947009551
SNP_P4_161751_12612	NW_004516655.1	Scaffold1455	12612	CC	TT	1947009553
SNP_P4_161752_12662	NW_004516655.1	Scaffold1455	12662	TT	GG	1947009555
SNP_P4_161753_12813	NW_004516655.1	Scaffold1455	12813	GG	AA	1947009557
SNP_P4_161754_12908	NW_004516655.1	Scaffold1455	12908	AA	CC	1947009559
SNP_P4_161756_13238	NW_004516655.1	Scaffold1455	13238	CC	TT	1947009561
SNP_P4_161757_13724	NW_004516655.1	Scaffold1455	13724	TT	CC	1947009563
SNP_P4_161758_13813	NW_004516655.1	Scaffold1455	13813	CC	GG	1947009565
SNP_P4_161759_14612	NW_004516655.1	Scaffold1455	14612	GG	AA	1947009567
SNP_P4_161760_14629	NW_004516655.1	Scaffold1455	14629	GG	AA	1947009569
SNP_P4_161761_16202	NW_004516655.1	Scaffold1455	16202	GG	AA	1947009571
SNP_P4_161762_16236	NW_004516655.1	Scaffold1455	16236	GG	TT	1947009573
SNP_P4_161763_16248	NW_004516655.1	Scaffold1455	16248	GG	AA	1947009575
SNP_P4_161764_16577	NW_004516655.1	Scaffold1455	16577	TT	CC	1947009577
SNP_P4_161765_18070	NW_004516655.1	Scaffold1455	18070	CC	TT	1947009579
SNP_P4_161766_18241	NW_004516655.1	Scaffold1455	18241	TT	CC	1947009581
SNP_P4_161767_18253	NW_004516655.1	Scaffold1455	18253	TT	AA	1947009583
SNP_P4_161768_18320	NW_004516655.1	Scaffold1455	18320	TT	CC	1947009585
SNP_P4_161769_18365	NW_004516655.1	Scaffold1455	18365	CC	TT	1947009587
SNP_P4_161770_18406	NW_004516655.1	Scaffold1455	18406	CC	AA	1947009589
SNP_P4_161771_18500	NW_004516655.1	Scaffold1455	18500	AA	GG	1947009591
SNP_P4_161772_18515	NW_004516655.1	Scaffold1455	18515	TT	AA	1947009593

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_161773_18637	NW_004516655.1	Scaffold1455	18637	AA	GG	1947009595
SNP_P4_161774_18655	NW_004516655.1	Scaffold1455	18655	GG	AA	1947009597
SNP_P4_161775_18920	NW_004516655.1	Scaffold1455	18920	TT	CC	1947009599
SNP_P4_161776_19070	NW_004516655.1	Scaffold1455	19070	GG	AA	1947009601
SNP_P4_161778_21099	NW_004516655.1	Scaffold1455	21099	CC	TT	1947009603
SNP_P4_161779_21455	NW_004516655.1	Scaffold1455	21455	TT	GG	1947009605
SNP_P4_161780_21495	NW_004516655.1	Scaffold1455	21495	CC	TT	1947009607
SNP_P4_161781_21595	NW_004516655.1	Scaffold1455	21595	CC	GG	1947009609
SNP_P4_161782_21604	NW_004516655.1	Scaffold1455	21604	CC	AA	1947009611
SNP_P4_161783_21607	NW_004516655.1	Scaffold1455	21607	AA	GG	1947009613
SNP_P4_161784_21828	NW_004516655.1	Scaffold1455	21828	AA	GG	1947009615
SNP_P4_161785_41904	NW_004516655.1	Scaffold1455	41904	CC	AA	1947009617
SNP_P4_161786_42388	NW_004516655.1	Scaffold1455	42388	TT	GG	1947009619
SNP_P4_161787_1074	NW_004516656.1	Scaffold1456	1074	TT	GG	1947009621
SNP_P4_161788_1312	NW_004516656.1	Scaffold1456	1312	TT	CC	1947009623
SNP_P4_161789_19649	NW_004516657.1	Scaffold1457	19649	GG	AA	1947009625
SNP_P4_161790_19893	NW_004516657.1	Scaffold1457	19893	TT	CC	1947009627
SNP_P4_161791_19944	NW_004516657.1	Scaffold1457	19944	AA	TT	1947009629
SNP_P4_161793_25613	NW_004516657.1	Scaffold1457	25613	AA	GG	1947009631
SNP_P4_161794_25671	NW_004516657.1	Scaffold1457	25671	GG	CC	1947009633
SNP_P4_161795_25711	NW_004516657.1	Scaffold1457	25711	GG	AA	1947009635
SNP_P4_161796_25840	NW_004516657.1	Scaffold1457	25840	CC	AA	1947009637
SNP_P4_161797_25874	NW_004516657.1	Scaffold1457	25874	AA	TT	1947009640
SNP_P4_161798_34301	NW_004516657.1	Scaffold1457	34301	TT	CC	1947009642
SNP_P4_161799_50553	NW_004516657.1	Scaffold1457	50553	AA	CC	1947009644
SNP_P4_161800_51412	NW_004516657.1	Scaffold1457	51412	GG	TT	1947009646
SNP_P4_161801_51415	NW_004516657.1	Scaffold1457	51415	AA	GG	1947009648
SNP_P4_161802_51423	NW_004516657.1	Scaffold1457	51423	AA	GG	1947009650
SNP_P4_161803_66498	NW_004516657.1	Scaffold1457	66498	AA	GG	1947009652
SNP_P4_161804_66501	NW_004516657.1	Scaffold1457	66501	AA	GG	1947009654
SNP_P4_161805_66559	NW_004516657.1	Scaffold1457	66559	CC	TT	1947009657
SNP_P4_161806_68576	NW_004516657.1	Scaffold1457	68576	AA	CC	1947009659
SNP_P4_161807_68626	NW_004516657.1	Scaffold1457	68626	AA	GG	1947009661
SNP_P4_161808_68638	NW_004516657.1	Scaffold1457	68638	TT	AA	1947009663
SNP_P4_161809_68669	NW_004516657.1	Scaffold1457	68669	AA	GG	1947009665
SNP_P4_161810_935	NW_004516659.1	Scaffold1459	935	TT	CC	1947009667
SNP_P4_161811_1158	NW_004516659.1	Scaffold1459	1158	GG	TT	1947009669
SNP_P4_161812_4696	NW_004516659.1	Scaffold1459	4696	TT	CC	1947009671
SNP_P4_161813_5511	NW_004516659.1	Scaffold1459	5511	GG	AA	1947009673
SNP_P4_161814_6197	NW_004516659.1	Scaffold1459	6197	TT	CC	1947009675
SNP_P4_161815_6202	NW_004516659.1	Scaffold1459	6202	CC	TT	1947009677
SNP_P4_161816_7224	NW_004516659.1	Scaffold1459	7224	CC	TT	1947009679

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_161818_941	NW_004516661.1	Scaffold1461	941	AA	GG	1947009683
SNP_P4_161819_7629	NW_004516661.1	Scaffold1461	7629	AA	GG	1947009685
SNP_P4_161820_12290	NW_004516661.1	Scaffold1461	12290	GG	TT	1947009687
SNP_P4_161821_12292	NW_004516661.1	Scaffold1461	12292	CC	AA	1947009689
SNP_P4_161822_12330	NW_004516661.1	Scaffold1461	12330	TT	GG	1947009691
SNP_P4_161823_12342	NW_004516661.1	Scaffold1461	12342	GG	TT	1947009693
SNP_P4_161824_12390	NW_004516661.1	Scaffold1461	12390	GG	CC	1947009695
SNP_P4_161825_12567	NW_004516661.1	Scaffold1461	12567	CC	TT	1947009697
SNP_P4_161826_12905	NW_004516661.1	Scaffold1461	12905	GG	AA	1947009699
SNP_P4_161827_13019	NW_004516661.1	Scaffold1461	13019	GG	AA	1947009701
SNP_P4_161829_12085	NW_004516662.1	Scaffold1462	12085	CC	TT	1947009703
SNP_P4_161830_12719	NW_004516662.1	Scaffold1462	12719	CC	TT	1947009705
SNP_P4_161831_12891	NW_004516662.1	Scaffold1462	12891	CC	TT	1947009707
SNP_P4_161832_12893	NW_004516662.1	Scaffold1462	12893	AA	TT	1947009709
SNP_P4_161833_14748	NW_004516662.1	Scaffold1462	14748	AA	GG	1947009711
SNP_P4_161834_14749	NW_004516662.1	Scaffold1462	14749	TT	CC	1947009713
SNP_P4_161835_14944	NW_004516662.1	Scaffold1462	14944	GG	AA	1947009715
SNP_P4_161836_15068	NW_004516662.1	Scaffold1462	15068	GG	TT	1947009717
SNP_P4_161837_15228	NW_004516662.1	Scaffold1462	15228	GG	AA	1947009719
SNP_P4_161838_12717	NW_004516663.1	Scaffold1464	12717	GG	AA	1947009721
SNP_P4_161839_12753	NW_004516663.1	Scaffold1464	12753	CC	TT	1947009723
SNP_P4_161840_13064	NW_004516663.1	Scaffold1464	13064	TT	CC	1947009725
SNP_P4_161841_13079	NW_004516663.1	Scaffold1464	13079	CC	TT	1947009727
SNP_P4_161842_14984	NW_004516663.1	Scaffold1464	14984	CC	TT	1947009729
SNP_P4_161843_15004	NW_004516663.1	Scaffold1464	15004	CC	AA	1947009731
SNP_P4_161844_15032	NW_004516663.1	Scaffold1464	15032	GG	AA	1947009733
SNP_P4_161845_15118	NW_004516663.1	Scaffold1464	15118	GG	TT	1947009735
SNP_P4_161846_28029	NW_004516663.1	Scaffold1464	28029	AA	GG	1947009737
SNP_P4_161847_40391	NW_004516663.1	Scaffold1464	40391	CC	AA	1947009739
SNP_P4_161848_41851	NW_004516663.1	Scaffold1464	41851	AA	GG	1947009741
SNP_P4_161849_41861	NW_004516663.1	Scaffold1464	41861	TT	AA	1947009743
SNP_P4_161850_56861	NW_004516663.1	Scaffold1464	56861	GG	AA	1947009745
SNP_P4_161851_69835	NW_004516663.1	Scaffold1464	69835	GG	AA	1947009747
SNP_P4_161852_69873	NW_004516663.1	Scaffold1464	69873	AA	CC	1947009749
SNP_P4_161853_69894	NW_004516663.1	Scaffold1464	69894	CC	GG	1947009751
SNP_P4_161854_70111	NW_004516663.1	Scaffold1464	70111	TT	CC	1947009753
SNP_P4_161855_70236	NW_004516663.1	Scaffold1464	70236	CC	TT	1947009755
SNP_P4_161856_70240	NW_004516663.1	Scaffold1464	70240	TT	AA	1947009757
SNP_P4_161858_79188	NW_004516663.1	Scaffold1464	79188	TT	GG	1947009759
SNP_P4_161859_79212	NW_004516663.1	Scaffold1464	79212	TT	CC	1947009761
SNP_P4_161860_86362	NW_004516663.1	Scaffold1464	86362	AA	GG	1947009763

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_161862_90005	NW_004516663.1	Scaffold1464	90005	AA	GG	1947009767
SNP_P4_161863_90017	NW_004516663.1	Scaffold1464	90017	GG	AA	1947009769
SNP_P4_161864_90136	NW_004516663.1	Scaffold1464	90136	CC	TT	1947009771
SNP_P4_161865_90140	NW_004516663.1	Scaffold1464	90140	GG	TT	1947009773
SNP_P4_161866_90147	NW_004516663.1	Scaffold1464	90147	TT	CC	1947009775
SNP_P4_161867_90410	NW_004516663.1	Scaffold1464	90410	AA	GG	1947009777
SNP_P4_161868_2107	NW_004516664.1	Scaffold1465	2107	TT	CC	1947009779
SNP_P4_161870_5121	NW_004516664.1	Scaffold1465	5121	GG	TT	1947009781
SNP_P4_161871_5141	NW_004516664.1	Scaffold1465	5141	TT	CC	1947009783
SNP_P4_161872_5732	NW_004516664.1	Scaffold1465	5732	AA	GG	1947009785
SNP_P4_161874_8491	NW_004516664.1	Scaffold1465	8491	TT	CC	1947009787
SNP_P4_161875_8492	NW_004516664.1	Scaffold1465	8492	TT	GG	1947009789
SNP_P4_161876_8658	NW_004516664.1	Scaffold1465	8658	CC	GG	1947009791
SNP_P4_161877_8916	NW_004516664.1	Scaffold1465	8916	CC	TT	1947009793
SNP_P4_161878_9066	NW_004516664.1	Scaffold1465	9066	TT	GG	1947009795
SNP_P4_161879_12118	NW_004516664.1	Scaffold1465	12118	GG	TT	1947009797
SNP_P4_161880_12140	NW_004516664.1	Scaffold1465	12140	AA	TT	1947009799
SNP_P4_161881_12212	NW_004516664.1	Scaffold1465	12212	AA	CC	1947009801
SNP_P4_161882_12558	NW_004516664.1	Scaffold1465	12558	TT	AA	1947009803
SNP_P4_161883_12622	NW_004516664.1	Scaffold1465	12622	CC	TT	1947009805
SNP_P4_161884_12668	NW_004516664.1	Scaffold1465	12668	GG	AA	1947009807
SNP_P4_161885_13370	NW_004516664.1	Scaffold1465	13370	AA	CC	1947009809
SNP_P4_161887_22467	NW_004516664.1	Scaffold1465	22467	TT	GG	1947009811
SNP_P4_161889_22550	NW_004516664.1	Scaffold1465	22550	CC	TT	1947009814
SNP_P4_161890_22720	NW_004516664.1	Scaffold1465	22720	CC	GG	1947009816
SNP_P4_161891_22780	NW_004516664.1	Scaffold1465	22780	AA	CC	1947009818
SNP_P4_161892_22814	NW_004516664.1	Scaffold1465	22814	AA	GG	1947009820
SNP_P4_161895_68023	NW_004516665.1	Scaffold1466	68023	TT	CC	1947009822
SNP_P4_161896_68024	NW_004516665.1	Scaffold1466	68024	CC	TT	1947009824
SNP_P4_161898_73597	NW_004516665.1	Scaffold1466	73597	CC	GG	1947009826
SNP_P4_161899_86018	NW_004516665.1	Scaffold1466	86018	CC	TT	1947009828
SNP_P4_161900_124214	NW_004516665.1	Scaffold1466	124214	CC	TT	1947009830
SNP_P4_161901_144437	NW_004516665.1	Scaffold1466	144437	AA	GG	1947009832
SNP_P4_161902_144829	NW_004516665.1	Scaffold1466	144829	CC	TT	1947009834
SNP_P4_161903_148512	NW_004516665.1	Scaffold1466	148512	GG	AA	1947009836
SNP_P4_161904_154268	NW_004516665.1	Scaffold1466	154268	CC	TT	1947009838
SNP_P4_161905_169018	NW_004516665.1	Scaffold1466	169018	TT	GG	1947009840
SNP_P4_161906_173946	NW_004516665.1	Scaffold1466	173946	TT	CC	1947009842
SNP_P4_161907_179799	NW_004516665.1	Scaffold1466	179799	CC	TT	1947009844
SNP_P4_161908_181151	NW_004516665.1	Scaffold1466	181151	AA	CC	1947009846
SNP_P4_161909_222556	NW_004516665.1	Scaffold1466	222556	TT	GG	1947009848

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_161911_241253	NW_004516665.1	Scaffold1466	241253	TT	CC	1947009852
SNP_P4_161912_241255	NW_004516665.1	Scaffold1466	241255	TT	CC	1947009854
SNP_P4_161913_241446	NW_004516665.1	Scaffold1466	241446	TT	CC	1947009856
SNP_P4_161914_241640	NW_004516665.1	Scaffold1466	241640	TT	AA	1947009858
SNP_P4_161915_241656	NW_004516665.1	Scaffold1466	241656	CC	TT	1947009860
SNP_P4_161916_241686	NW_004516665.1	Scaffold1466	241686	GG	AA	1947009862
SNP_P4_161917_241692	NW_004516665.1	Scaffold1466	241692	CC	TT	1947009864
SNP_P4_161918_252749	NW_004516665.1	Scaffold1466	252749	CC	TT	1947009866
SNP_P4_161919_265290	NW_004516665.1	Scaffold1466	265290	CC	TT	1947009868
SNP_P4_161920_281192	NW_004516665.1	Scaffold1466	281192	AA	CC	1947009870
SNP_P4_161921_282943	NW_004516665.1	Scaffold1466	282943	TT	CC	1947009872
SNP_P4_161922_284134	NW_004516665.1	Scaffold1466	284134	GG	AA	1947009874
SNP_P4_161923_284508	NW_004516665.1	Scaffold1466	284508	TT	CC	1947009876
SNP_P4_161924_284541	NW_004516665.1	Scaffold1466	284541	AA	CC	1947009878
SNP_P4_161925_300352	NW_004516665.1	Scaffold1466	300352	TT	GG	1947009880
SNP_P4_161926_311598	NW_004516665.1	Scaffold1466	311598	AA	GG	1947009882
SNP_P4_161927_311987	NW_004516665.1	Scaffold1466	311987	AA	GG	1947009884
SNP_P4_161928_312005	NW_004516665.1	Scaffold1466	312005	AA	GG	1947009886
SNP_P4_161929_314063	NW_004516665.1	Scaffold1466	314063	TT	CC	1947009888
SNP_P4_161930_314397	NW_004516665.1	Scaffold1466	314397	AA	CC	1947009890
SNP_P4_161931_314415	NW_004516665.1	Scaffold1466	314415	TT	CC	1947009892
SNP_P4_161932_323421	NW_004516665.1	Scaffold1466	323421	TT	GG	1947009894
SNP_P4_161933_328634	NW_004516665.1	Scaffold1466	328634	AA	GG	1947009896
SNP_P4_161935_358416	NW_004516665.1	Scaffold1466	358416	TT	CC	1947009898
SNP_P4_161936_358484	NW_004516665.1	Scaffold1466	358484	AA	GG	1947009900
SNP_P4_161939_22476	NW_004516666.1	Scaffold1467	22476	TT	CC	1947009902
SNP_P4_161940_22480	NW_004516666.1	Scaffold1467	22480	TT	GG	1947009904
SNP_P4_161941_22481	NW_004516666.1	Scaffold1467	22481	GG	TT	1947009906
SNP_P4_161942_26504	NW_004516666.1	Scaffold1467	26504	AA	GG	1947009908
SNP_P4_161943_46940	NW_004516666.1	Scaffold1467	46940	GG	AA	1947009910
SNP_P4_161944_71815	NW_004516666.1	Scaffold1467	71815	GG	TT	1947009912
SNP_P4_161945_71824	NW_004516666.1	Scaffold1467	71824	GG	AA	1947009914
SNP_P4_161946_71856	NW_004516666.1	Scaffold1467	71856	GG	CC	1947009915
SNP_P4_161947_71873	NW_004516666.1	Scaffold1467	71873	CC	TT	1947009917
SNP_P4_161948_71875	NW_004516666.1	Scaffold1467	71875	AA	CC	1947009919
SNP_P4_161949_91880	NW_004516666.1	Scaffold1467	91880	CC	TT	1947009921
SNP_P4_161950_92039	NW_004516666.1	Scaffold1467	92039	GG	AA	1947009923
SNP_P4_161951_92040	NW_004516666.1	Scaffold1467	92040	TT	CC	1947009925
SNP_P4_161952_92224	NW_004516666.1	Scaffold1467	92224	GG	AA	1947009927
SNP_P4_161953_92227	NW_004516666.1	Scaffold1467	92227	GG	CC	1947009929
SNP_P4_161954_92228	NW_004516666.1	Scaffold1467	92228	CC	AA	1947009931

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_161958_141691	NW_004516666.1	Scaffold1467	141691	GG	TT	1947009935
SNP_P4_161959_141742	NW_004516666.1	Scaffold1467	141742	TT	CC	1947009937
SNP_P4_161960_143339	NW_004516666.1	Scaffold1467	143339	TT	CC	1947009939
SNP_P4_161961_143350	NW_004516666.1	Scaffold1467	143350	AA	GG	1947009940
SNP_P4_161962_177189	NW_004516666.1	Scaffold1467	177189	AA	CC	1947009942
SNP_P4_161963_202478	NW_004516666.1	Scaffold1467	202478	CC	TT	1947009944
SNP_P4_161964_202563	NW_004516666.1	Scaffold1467	202563	GG	AA	1947009946
SNP_P4_161965_202584	NW_004516666.1	Scaffold1467	202584	CC	TT	1947009948
SNP_P4_161966_206277	NW_004516666.1	Scaffold1467	206277	AA	GG	1947009950
SNP_P4_161967_206307	NW_004516666.1	Scaffold1467	206307	GG	AA	1947009952
SNP_P4_161968_3306	NW_004516667.1	Scaffold1468	3306	TT	GG	1947009954
SNP_P4_161969_3549	NW_004516667.1	Scaffold1468	3549	GG	AA	1947009956
SNP_P4_161970_3550	NW_004516667.1	Scaffold1468	3550	TT	AA	1947009958
SNP_P4_161971_3734	NW_004516667.1	Scaffold1468	3734	GG	CC	1947009960
SNP_P4_161972_4037	NW_004516667.1	Scaffold1468	4037	GG	TT	1947009962
SNP_P4_161973_11404	NW_004516667.1	Scaffold1468	11404	CC	TT	1947009964
SNP_P4_161974_11753	NW_004516667.1	Scaffold1468	11753	AA	GG	1947009966
SNP_P4_161975_858	NW_004516669.1	Scaffold1472	858	CC	TT	1947009968
SNP_P4_161976_873	NW_004516669.1	Scaffold1472	873	TT	AA	1947009970
SNP_P4_161977_875	NW_004516669.1	Scaffold1472	875	GG	TT	1947009972
SNP_P4_161978_2253	NW_004516669.1	Scaffold1472	2253	TT	CC	1947009974
SNP_P4_161979_2063	NW_004516670.1	Scaffold1473	2063	AA	GG	1947009976
SNP_P4_161980_2230	NW_004516670.1	Scaffold1473	2230	CC	TT	1947009978
SNP_P4_161981_2347	NW_004516670.1	Scaffold1473	2347	TT	GG	1947009980
SNP_P4_161982_2590	NW_004516670.1	Scaffold1473	2590	TT	AA	1947009982
SNP_P4_161983_2737	NW_004516670.1	Scaffold1473	2737	AA	GG	1947009984
SNP_P4_161984_2924	NW_004516670.1	Scaffold1473	2924	AA	GG	1947009986
SNP_P4_161985_3047	NW_004516670.1	Scaffold1473	3047	TT	CC	1947009988
SNP_P4_161986_3060	NW_004516670.1	Scaffold1473	3060	GG	AA	1947009990
SNP_P4_161987_3404	NW_004516670.1	Scaffold1473	3404	TT	CC	1947009992
SNP_P4_161988_4549	NW_004516670.1	Scaffold1473	4549	GG	TT	1947009994
SNP_P4_161989_42360	NW_004516671.1	Scaffold1475	42360	CC	GG	1947009996
SNP_P4_161990_42497	NW_004516671.1	Scaffold1475	42497	TT	CC	1947009998
SNP_P4_161991_42498	NW_004516671.1	Scaffold1475	42498	CC	AA	1947010000
SNP_P4_161992_42531	NW_004516671.1	Scaffold1475	42531	CC	AA	1947010002
SNP_P4_161993_42534	NW_004516671.1	Scaffold1475	42534	CC	AA	1947010004
SNP_P4_161994_56245	NW_004516671.1	Scaffold1475	56245	AA	TT	1947010006
SNP_P4_161995_56280	NW_004516671.1	Scaffold1475	56280	CC	TT	1947010008
SNP_P4_161996_57593	NW_004516671.1	Scaffold1475	57593	TT	GG	1947010010
SNP_P4_161997_69193	NW_004516671.1	Scaffold1475	69193	GG	AA	1947010012
SNP_P4_161998_69204	NW_004516671.1	Scaffold1475	69204	AA	GG	1947010014

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_161999_69407	NW_004516671.1	Scaffold1475	69407	CC	TT	1947010016
SNP_P4_162000_73572	NW_004516671.1	Scaffold1475	73572	GG	TT	1947010018
SNP_P4_162001_73582	NW_004516671.1	Scaffold1475	73582	TT	AA	1947010020
SNP_P4_162002_73698	NW_004516671.1	Scaffold1475	73698	GG	AA	1947010022
SNP_P4_162003_81549	NW_004516671.1	Scaffold1475	81549	TT	GG	1947010024
SNP_P4_162005_99238	NW_004516671.1	Scaffold1475	99238	AA	GG	1947010026
SNP_P4_162006_99255	NW_004516671.1	Scaffold1475	99255	AA	CC	1947010028
SNP_P4_162007_99314	NW_004516671.1	Scaffold1475	99314	AA	CC	1947010030
SNP_P4_162009_99336	NW_004516671.1	Scaffold1475	99336	TT	GG	1947010032
SNP_P4_162010_99342	NW_004516671.1	Scaffold1475	99342	TT	CC	1947010034
SNP_P4_162011_99366	NW_004516671.1	Scaffold1475	99366	AA	GG	1947010036
SNP_P4_162012_99384	NW_004516671.1	Scaffold1475	99384	CC	TT	1947010038
SNP_P4_162013_99630	NW_004516671.1	Scaffold1475	99630	AA	GG	1947010040
SNP_P4_162014_99632	NW_004516671.1	Scaffold1475	99632	TT	CC	1947010042
SNP_P4_162015_99780	NW_004516671.1	Scaffold1475	99780	CC	GG	1947010044
SNP_P4_162016_99788	NW_004516671.1	Scaffold1475	99788	CC	AA	1947010046
SNP_P4_162017_99809	NW_004516671.1	Scaffold1475	99809	AA	GG	1947010048
SNP_P4_162018_99810	NW_004516671.1	Scaffold1475	99810	GG	AA	1947010050
SNP_P4_162019_99825	NW_004516671.1	Scaffold1475	99825	TT	CC	1947010052
SNP_P4_162020_99841	NW_004516671.1	Scaffold1475	99841	TT	CC	1947010054
SNP_P4_162022_848	NW_004516673.1	Scaffold1477	848	TT	CC	1947010056
SNP_P4_162023_899	NW_004516673.1	Scaffold1477	899	TT	CC	1947010058
SNP_P4_162024_831	NW_004516674.1	Scaffold1478	831	TT	CC	1947010060
SNP_P4_162025_6734	NW_004516674.1	Scaffold1478	6734	TT	AA	1947010062
SNP_P4_162026_8983	NW_004516674.1	Scaffold1478	8983	TT	GG	1947010064
SNP_P4_162027_9033	NW_004516674.1	Scaffold1478	9033	TT	CC	1947010066
SNP_P4_162028_9182	NW_004516674.1	Scaffold1478	9182	TT	CC	1947010068
SNP_P4_162029_9187	NW_004516674.1	Scaffold1478	9187	TT	CC	1947010070
SNP_P4_162030_9302	NW_004516674.1	Scaffold1478	9302	AA	GG	1947010072
SNP_P4_162031_11224	NW_004516674.1	Scaffold1478	11224	TT	GG	1947010075
SNP_P4_162032_21378	NW_004516674.1	Scaffold1478	21378	AA	TT	1947010077
SNP_P4_162033_23623	NW_004516674.1	Scaffold1478	23623	AA	GG	1947010079
SNP_P4_162034_26248	NW_004516674.1	Scaffold1478	26248	TT	CC	1947010081
SNP_P4_162035_30176	NW_004516674.1	Scaffold1478	30176	GG	AA	1947010083
SNP_P4_162036_30178	NW_004516674.1	Scaffold1478	30178	CC	AA	1947010085
SNP_P4_162037_30220	NW_004516674.1	Scaffold1478	30220	TT	CC	1947010087
SNP_P4_162038_30510	NW_004516674.1	Scaffold1478	30510	CC	TT	1947010089
SNP_P4_162039_38673	NW_004516674.1	Scaffold1478	38673	TT	GG	1947010091
SNP_P4_162040_38691	NW_004516674.1	Scaffold1478	38691	AA	GG	1947010093
SNP_P4_162041_43036	NW_004516674.1	Scaffold1478	43036	TT	GG	1947010095
SNP_P4_162042_45183	NW_004516674.1	Scaffold1478	45183	TT	CC	1947010097
SNP_P4_162043_58780	NW_004516674.1	Scaffold1478	58780	CC	TT	1947010099

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_162044_64265	NW_004516674.1	Scaffold1478	64265	AA	CC	1947010101
SNP_P4_162045_71515	NW_004516674.1	Scaffold1478	71515	TT	CC	1947010103
SNP_P4_162046_71711	NW_004516674.1	Scaffold1478	71711	AA	TT	1947010105
SNP_P4_162047_73500	NW_004516674.1	Scaffold1478	73500	CC	AA	1947010107
SNP_P4_162048_73537	NW_004516674.1	Scaffold1478	73537	TT	AA	1947010109
SNP_P4_162049_73539	NW_004516674.1	Scaffold1478	73539	AA	CC	1947010111
SNP_P4_162050_73581	NW_004516674.1	Scaffold1478	73581	GG	AA	1947010113
SNP_P4_162051_73605	NW_004516674.1	Scaffold1478	73605	GG	AA	1947010115
SNP_P4_162052_73627	NW_004516674.1	Scaffold1478	73627	CC	AA	1947010117
SNP_P4_162053_73629	NW_004516674.1	Scaffold1478	73629	TT	CC	1947010119
SNP_P4_162054_73635	NW_004516674.1	Scaffold1478	73635	CC	TT	1947010121
SNP_P4_162055_77349	NW_004516674.1	Scaffold1478	77349	AA	CC	1947010123
SNP_P4_162056_88063	NW_004516674.1	Scaffold1478	88063	TT	CC	1947010125
SNP_P4_162057_88071	NW_004516674.1	Scaffold1478	88071	CC	AA	1947010127
SNP_P4_162058_88413	NW_004516674.1	Scaffold1478	88413	TT	CC	1947010129
SNP_P4_162059_90772	NW_004516674.1	Scaffold1478	90772	CC	TT	1947010131
SNP_P4_162060_92172	NW_004516674.1	Scaffold1478	92172	AA	GG	1947010133
SNP_P4_162061_92265	NW_004516674.1	Scaffold1478	92265	TT	CC	1947010135
SNP_P4_162062_5716	NW_004516678.1	Scaffold1483	5716	AA	GG	1947010137
SNP_P4_162063_5748	NW_004516678.1	Scaffold1483	5748	TT	CC	1947010139
SNP_P4_162064_5811	NW_004516678.1	Scaffold1483	5811	AA	CC	1947010141
SNP_P4_162065_5984	NW_004516678.1	Scaffold1483	5984	GG	AA	1947010143
SNP_P4_162066_6000	NW_004516678.1	Scaffold1483	6000	CC	TT	1947010145
SNP_P4_162067_6016	NW_004516678.1	Scaffold1483	6016	GG	TT	1947010147
SNP_P4_162068_6017	NW_004516678.1	Scaffold1483	6017	GG	AA	1947010149
SNP_P4_162069_6030	NW_004516678.1	Scaffold1483	6030	CC	TT	1947010151
SNP_P4_162070_6309	NW_004516678.1	Scaffold1483	6309	GG	CC	1947010153
SNP_P4_162071_6377	NW_004516678.1	Scaffold1483	6377	AA	GG	1947010155
SNP_P4_162072_6399	NW_004516678.1	Scaffold1483	6399	GG	CC	1947010157
SNP_P4_162073_6411	NW_004516678.1	Scaffold1483	6411	CC	AA	1947010159
SNP_P4_162075_6533	NW_004516678.1	Scaffold1483	6533	CC	TT	1947010161
SNP_P4_162076_6536	NW_004516678.1	Scaffold1483	6536	GG	AA	1947010163
SNP_P4_162077_6564	NW_004516678.1	Scaffold1483	6564	GG	CC	1947010165
SNP_P4_162078_6606	NW_004516678.1	Scaffold1483	6606	GG	AA	1947010167
SNP_P4_162079_6618	NW_004516678.1	Scaffold1483	6618	TT	GG	1947010169
SNP_P4_162080_6665	NW_004516678.1	Scaffold1483	6665	AA	CC	1947010171
SNP_P4_162081_6713	NW_004516678.1	Scaffold1483	6713	CC	TT	1947010173
SNP_P4_162082_6764	NW_004516678.1	Scaffold1483	6764	TT	CC	1947010175
SNP_P4_162083_6772	NW_004516678.1	Scaffold1483	6772	CC	TT	1947010177
SNP_P4_162084_6809	NW_004516678.1	Scaffold1483	6809	TT	CC	1947010179
SNP_P4_162085_6814	NW_004516678.1	Scaffold1483	6814	TT	CC	1947010181
SNP_P4_162086_6817	NW_004516678.1	Scaffold1483	6817	AA	TT	1947010183

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_162088_6891	NW_004516678.1	Scaffold1483	6891	TT	GG	1947010185
SNP_P4_162089_6901	NW_004516678.1	Scaffold1483	6901	AA	GG	1947010187
SNP_P4_162090_6917	NW_004516678.1	Scaffold1483	6917	AA	CC	1947010189
SNP_P4_162091_6930	NW_004516678.1	Scaffold1483	6930	GG	CC	1947010191
SNP_P4_162092_7082	NW_004516678.1	Scaffold1483	7082	GG	CC	1947010193
SNP_P4_162093_18100	NW_004516678.1	Scaffold1483	18100	GG	AA	1947010195
SNP_P4_162094_18896	NW_004516678.1	Scaffold1483	18896	AA	TT	1947010197
SNP_P4_162095_24578	NW_004516678.1	Scaffold1483	24578	AA	GG	1947010200
SNP_P4_162096_28011	NW_004516678.1	Scaffold1483	28011	CC	TT	1947010202
SNP_P4_162097_31558	NW_004516678.1	Scaffold1483	31558	AA	TT	1947010204
SNP_P4_162099_34496	NW_004516678.1	Scaffold1483	34496	TT	CC	1947010206
SNP_P4_162100_50606	NW_004516678.1	Scaffold1483	50606	TT	CC	1947010208
SNP_P4_162101_50653	NW_004516678.1	Scaffold1483	50653	AA	CC	1947010210
SNP_P4_162102_54769	NW_004516678.1	Scaffold1483	54769	TT	CC	1947010212
SNP_P4_162103_54800	NW_004516678.1	Scaffold1483	54800	AA	TT	1947010214
SNP_P4_162104_54848	NW_004516678.1	Scaffold1483	54848	CC	TT	1947010216
SNP_P4_162106_55108	NW_004516678.1	Scaffold1483	55108	AA	GG	1947010218
SNP_P4_162107_55114	NW_004516678.1	Scaffold1483	55114	GG	TT	1947010220
SNP_P4_162108_55117	NW_004516678.1	Scaffold1483	55117	TT	GG	1947010222
SNP_P4_162109_55122	NW_004516678.1	Scaffold1483	55122	TT	CC	1947010224
SNP_P4_162110_55403	NW_004516678.1	Scaffold1483	55403	CC	TT	1947010226
SNP_P4_162111_55520	NW_004516678.1	Scaffold1483	55520	GG	AA	1947010228
SNP_P4_162113_56575	NW_004516678.1	Scaffold1483	56575	AA	GG	1947010230
SNP_P4_162114_56609	NW_004516678.1	Scaffold1483	56609	CC	AA	1947010232
SNP_P4_162115_56849	NW_004516678.1	Scaffold1483	56849	GG	AA	1947010234
SNP_P4_162116_56860	NW_004516678.1	Scaffold1483	56860	AA	CC	1947010236
SNP_P4_162117_56900	NW_004516678.1	Scaffold1483	56900	GG	AA	1947010238
SNP_P4_162118_56901	NW_004516678.1	Scaffold1483	56901	GG	AA	1947010240
SNP_P4_162119_57081	NW_004516678.1	Scaffold1483	57081	AA	CC	1947010242
SNP_P4_162120_57271	NW_004516678.1	Scaffold1483	57271	GG	AA	1947010244
SNP_P4_162121_57313	NW_004516678.1	Scaffold1483	57313	GG	CC	1947010246
SNP_P4_162122_69213	NW_004516678.1	Scaffold1483	69213	AA	GG	1947010248
SNP_P4_162123_69313	NW_004516678.1	Scaffold1483	69313	TT	AA	1947010250
SNP_P4_162124_69768	NW_004516678.1	Scaffold1483	69768	AA	CC	1947010252
SNP_P4_162125_69873	NW_004516678.1	Scaffold1483	69873	GG	CC	1947010254
SNP_P4_162126_69969	NW_004516678.1	Scaffold1483	69969	GG	AA	1947010256
SNP_P4_162127_70085	NW_004516678.1	Scaffold1483	70085	AA	CC	1947010258
SNP_P4_162128_70092	NW_004516678.1	Scaffold1483	70092	CC	TT	1947010260
SNP_P4_162129_70115	NW_004516678.1	Scaffold1483	70115	CC	AA	1947010262
SNP_P4_162130_70136	NW_004516678.1	Scaffold1483	70136	CC	GG	1947010264
SNP_P4_162131_70138	NW_004516678.1	Scaffold1483	70138	AA	GG	1947010266
SNP_P4_162132_70142	NW_004516678.1	Scaffold1483	70142	AA	TT	1947010268

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_162134_70159	NW_004516678.1	Scaffold1483	70159	AA	GG	1947010272
SNP_P4_162135_70162	NW_004516678.1	Scaffold1483	70162	TT	GG	1947010274
SNP_P4_162136_70168	NW_004516678.1	Scaffold1483	70168	AA	GG	1947010276
SNP_P4_162137_70221	NW_004516678.1	Scaffold1483	70221	GG	AA	1947010278
SNP_P4_162138_72960	NW_004516678.1	Scaffold1483	72960	TT	GG	1947010280
SNP_P4_162140_240	NW_004516680.1	Scaffold1486	240	TT	AA	1947010282
SNP_P4_162141_474	NW_004516680.1	Scaffold1486	474	TT	AA	1947010284
SNP_P4_162142_2876	NW_004516680.1	Scaffold1486	2876	TT	GG	1947010286
SNP_P4_162143_64	NW_004516681.1	Scaffold1488	64	GG	CC	1947010288
SNP_P4_162144_85	NW_004516681.1	Scaffold1488	85	AA	CC	1947010290
SNP_P4_162145_89	NW_004516681.1	Scaffold1488	89	GG	AA	1947010292
SNP_P4_162146_325	NW_004516681.1	Scaffold1488	325	GG	TT	1947010294
SNP_P4_162147_341	NW_004516681.1	Scaffold1488	341	AA	CC	1947010296
SNP_P4_162148_512	NW_004516681.1	Scaffold1488	512	AA	TT	1947010298
SNP_P4_162150_9051	NW_004516681.1	Scaffold1488	9051	AA	CC	1947010300
SNP_P4_162151_9527	NW_004516681.1	Scaffold1488	9527	TT	CC	1947010302
SNP_P4_162152_650	NW_004516683.1	Scaffold1490	650	GG	CC	1947010304
SNP_P4_162153_668	NW_004516683.1	Scaffold1490	668	GG	CC	1947010306
SNP_P4_162154_687	NW_004516683.1	Scaffold1490	687	TT	AA	1947010308
SNP_P4_162155_702	NW_004516683.1	Scaffold1490	702	CC	AA	1947010310
SNP_P4_162156_730	NW_004516683.1	Scaffold1490	730	CC	TT	1947010312
SNP_P4_162157_766	NW_004516683.1	Scaffold1490	766	GG	TT	1947010314
SNP_P4_162158_938	NW_004516683.1	Scaffold1490	938	CC	AA	1947010316
SNP_P4_162159_968	NW_004516683.1	Scaffold1490	968	GG	AA	1947010318
SNP_P4_162160_973	NW_004516683.1	Scaffold1490	973	CC	AA	1947010320
SNP_P4_162161_974	NW_004516683.1	Scaffold1490	974	GG	AA	1947010322
SNP_P4_162162_1009	NW_004516683.1	Scaffold1490	1009	GG	AA	1947010324
SNP_P4_162163_1048	NW_004516683.1	Scaffold1490	1048	TT	CC	1947010326
SNP_P4_162164_1141	NW_004516683.1	Scaffold1490	1141	AA	CC	1947010328
SNP_P4_162165_1151	NW_004516683.1	Scaffold1490	1151	AA	GG	1947010330
SNP_P4_162166_1158	NW_004516683.1	Scaffold1490	1158	GG	AA	1947010332
SNP_P4_162167_1229	NW_004516683.1	Scaffold1490	1229	GG	CC	1947010334
SNP_P4_162169_1296	NW_004516683.1	Scaffold1490	1296	TT	CC	1947010336
SNP_P4_162170_1431	NW_004516683.1	Scaffold1490	1431	AA	TT	1947010338
SNP_P4_162171_1450	NW_004516683.1	Scaffold1490	1450	AA	GG	1947010340
SNP_P4_162172_1461	NW_004516683.1	Scaffold1490	1461	GG	AA	1947010342
SNP_P4_162173_2442	NW_004516683.1	Scaffold1490	2442	AA	GG	1947010344
SNP_P4_162174_12112	NW_004516683.1	Scaffold1490	12112	GG	AA	1947010346
SNP_P4_162175_12154	NW_004516683.1	Scaffold1490	12154	AA	TT	1947010348
SNP_P4_162176_12176	NW_004516683.1	Scaffold1490	12176	TT	GG	1947010350
SNP_P4_162177_12177	NW_004516683.1	Scaffold1490	12177	TT	AA	1947010352

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_162179_12196	NW_004516683.1	Scaffold1490	12196	GG	TT	1947010356
SNP_P4_162180_12198	NW_004516683.1	Scaffold1490	12198	AA	CC	1947010358
SNP_P4_162181_14254	NW_004516683.1	Scaffold1490	14254	AA	GG	1947010360
SNP_P4_162182_14257	NW_004516683.1	Scaffold1490	14257	AA	CC	1947010362
SNP_P4_162183_14266	NW_004516683.1	Scaffold1490	14266	GG	AA	1947010364
SNP_P4_162184_14288	NW_004516683.1	Scaffold1490	14288	AA	CC	1947010366
SNP_P4_162185_14297	NW_004516683.1	Scaffold1490	14297	AA	GG	1947010368
SNP_P4_162186_14310	NW_004516683.1	Scaffold1490	14310	TT	AA	1947010369
SNP_P4_162187_16398	NW_004516683.1	Scaffold1490	16398	AA	CC	1947010371
SNP_P4_162188_62551	NW_004516683.1	Scaffold1490	62551	GG	TT	1947010373
SNP_P4_162189_62600	NW_004516683.1	Scaffold1490	62600	AA	GG	1947010375
SNP_P4_162190_62605	NW_004516683.1	Scaffold1490	62605	AA	GG	1947010377
SNP_P4_162191_73031	NW_004516683.1	Scaffold1490	73031	TT	AA	1947010379
SNP_P4_162192_73729	NW_004516683.1	Scaffold1490	73729	TT	CC	1947010381
SNP_P4_162193_73801	NW_004516683.1	Scaffold1490	73801	TT	CC	1947010383
SNP_P4_162194_73956	NW_004516683.1	Scaffold1490	73956	AA	GG	1947010385
SNP_P4_162195_73971	NW_004516683.1	Scaffold1490	73971	GG	AA	1947010387
SNP_P4_162196_74046	NW_004516683.1	Scaffold1490	74046	TT	GG	1947010389
SNP_P4_162197_74168	NW_004516683.1	Scaffold1490	74168	AA	GG	1947010391
SNP_P4_162198_74169	NW_004516683.1	Scaffold1490	74169	AA	CC	1947010393
SNP_P4_162199_74241	NW_004516683.1	Scaffold1490	74241	AA	GG	1947010395
SNP_P4_162201_74264	NW_004516683.1	Scaffold1490	74264	GG	AA	1947010397
SNP_P4_162202_74276	NW_004516683.1	Scaffold1490	74276	GG	AA	1947010399
SNP_P4_162203_74282	NW_004516683.1	Scaffold1490	74282	AA	GG	1947010401
SNP_P4_162204_74312	NW_004516683.1	Scaffold1490	74312	TT	AA	1947010403
SNP_P4_162205_74318	NW_004516683.1	Scaffold1490	74318	TT	CC	1947010405
SNP_P4_162206_74360	NW_004516683.1	Scaffold1490	74360	TT	CC	1947010407
SNP_P4_162207_74649	NW_004516683.1	Scaffold1490	74649	AA	GG	1947010409
SNP_P4_162208_78030	NW_004516683.1	Scaffold1490	78030	TT	AA	1947010411
SNP_P4_162209_78035	NW_004516683.1	Scaffold1490	78035	TT	CC	1947010413
SNP_P4_162210_78057	NW_004516683.1	Scaffold1490	78057	GG	AA	1947010415
SNP_P4_162211_78070	NW_004516683.1	Scaffold1490	78070	TT	GG	1947010417
SNP_P4_162212_78347	NW_004516683.1	Scaffold1490	78347	GG	AA	1947010419
SNP_P4_162213_88533	NW_004516683.1	Scaffold1490	88533	TT	AA	1947010421
SNP_P4_162214_88547	NW_004516683.1	Scaffold1490	88547	AA	TT	1947010423
SNP_P4_162215_88550	NW_004516683.1	Scaffold1490	88550	TT	GG	1947010425
SNP_P4_162216_88551	NW_004516683.1	Scaffold1490	88551	GG	TT	1947010427
SNP_P4_162217_88553	NW_004516683.1	Scaffold1490	88553	AA	CC	1947010429
SNP_P4_162218_88577	NW_004516683.1	Scaffold1490	88577	GG	TT	1947010431
SNP_P4_162219_625	NW_004516684.1	Scaffold1491	625	GG	CC	1947010433
SNP_P4_162220_653	NW_004516684.1	Scaffold1491	653	CC	GG	1947010435

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_162221_671	NW_004516684.1	Scaffold1491	671	GG	TT	1947010437
SNP_P4_162222_687	NW_004516684.1	Scaffold1491	687	GG	AA	1947010439
SNP_P4_162223_688	NW_004516684.1	Scaffold1491	688	CC	GG	1947010441
SNP_P4_162224_684	NW_004516685.1	Scaffold1492	684	AA	TT	1947010443
SNP_P4_162225_1027	NW_004516685.1	Scaffold1492	1027	TT	CC	1947010445
SNP_P4_162226_1059	NW_004516685.1	Scaffold1492	1059	GG	AA	1947010447
SNP_P4_162227_2064	NW_004516686.1	Scaffold1493	2064	AA	TT	1947010449
SNP_P4_162228_2174	NW_004516686.1	Scaffold1493	2174	GG	AA	1947010451
SNP_P4_162229_2217	NW_004516686.1	Scaffold1493	2217	CC	TT	1947010453
SNP_P4_162230_2349	NW_004516686.1	Scaffold1493	2349	GG	AA	1947010455
SNP_P4_162231_2355	NW_004516686.1	Scaffold1493	2355	AA	GG	1947010457
SNP_P4_162232_2827	NW_004516686.1	Scaffold1493	2827	GG	CC	1947010459
SNP_P4_162233_2843	NW_004516686.1	Scaffold1493	2843	AA	GG	1947010461
SNP_P4_162234_3073	NW_004516686.1	Scaffold1493	3073	CC	AA	1947010463
SNP_P4_162235_3363	NW_004516686.1	Scaffold1493	3363	AA	GG	1947010465
SNP_P4_162236_3434	NW_004516686.1	Scaffold1493	3434	AA	GG	1947010467
SNP_P4_162237_3508	NW_004516686.1	Scaffold1493	3508	TT	CC	1947010469
SNP_P4_162238_3609	NW_004516686.1	Scaffold1493	3609	TT	AA	1947010471
SNP_P4_162239_12493	NW_004516686.1	Scaffold1493	12493	AA	GG	1947010473
SNP_P4_162240_12695	NW_004516686.1	Scaffold1493	12695	TT	CC	1947010475
SNP_P4_162241_12722	NW_004516686.1	Scaffold1493	12722	TT	AA	1947010477
SNP_P4_162242_12785	NW_004516686.1	Scaffold1493	12785	TT	CC	1947010479
SNP_P4_162243_12793	NW_004516686.1	Scaffold1493	12793	AA	GG	1947010480
SNP_P4_162244_12802	NW_004516686.1	Scaffold1493	12802	GG	CC	1947010482
SNP_P4_162245_12823	NW_004516686.1	Scaffold1493	12823	AA	GG	1947010484
SNP_P4_162246_12827	NW_004516686.1	Scaffold1493	12827	CC	TT	1947010486
SNP_P4_162247_34739	NW_004516686.1	Scaffold1493	34739	GG	AA	1947010488
SNP_P4_162248_34874	NW_004516686.1	Scaffold1493	34874	CC	TT	1947010490
SNP_P4_162249_34897	NW_004516686.1	Scaffold1493	34897	AA	GG	1947010492
SNP_P4_162250_34907	NW_004516686.1	Scaffold1493	34907	GG	AA	1947010494
SNP_P4_162251_34913	NW_004516686.1	Scaffold1493	34913	TT	CC	1947010496
SNP_P4_162253_35017	NW_004516686.1	Scaffold1493	35017	TT	CC	1947010498
SNP_P4_162254_35092	NW_004516686.1	Scaffold1493	35092	TT	CC	1947010500
SNP_P4_162255_38511	NW_004516686.1	Scaffold1493	38511	CC	GG	1947010501
SNP_P4_162256_56103	NW_004516686.1	Scaffold1493	56103	TT	AA	1947010503
SNP_P4_162257_56108	NW_004516686.1	Scaffold1493	56108	AA	GG	1947010505
SNP_P4_162258_56118	NW_004516686.1	Scaffold1493	56118	AA	GG	1947010507
SNP_P4_162259_56149	NW_004516686.1	Scaffold1493	56149	AA	GG	1947010509
SNP_P4_162260_56157	NW_004516686.1	Scaffold1493	56157	TT	CC	1947010511
SNP_P4_162261_56162	NW_004516686.1	Scaffold1493	56162	TT	CC	1947010513
SNP_P4_162262_56172	NW_004516686.1	Scaffold1493	56172	GG	TT	1947010515
SNP_P4_162263_56181	NW_004516686.1	Scaffold1493	56181	GG	AA	1947010517

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_162265_56420	NW_004516686.1	Scaffold1493	56420	GG	AA	1947010521
SNP_P4_162266_56466	NW_004516686.1	Scaffold1493	56466	CC	TT	1947010523
SNP_P4_162267_64522	NW_004516686.1	Scaffold1493	64522	CC	TT	1947010525
SNP_P4_162268_65144	NW_004516686.1	Scaffold1493	65144	GG	AA	1947010527
SNP_P4_162269_65211	NW_004516686.1	Scaffold1493	65211	AA	GG	1947010529
SNP_P4_162271_65521	NW_004516686.1	Scaffold1493	65521	CC	AA	1947010531
SNP_P4_162272_65594	NW_004516686.1	Scaffold1493	65594	TT	CC	1947010533
SNP_P4_162273_65676	NW_004516686.1	Scaffold1493	65676	TT	AA	1947010535
SNP_P4_162274_65697	NW_004516686.1	Scaffold1493	65697	CC	TT	1947010537
SNP_P4_162275_65699	NW_004516686.1	Scaffold1493	65699	AA	CC	1947010539
SNP_P4_162276_65719	NW_004516686.1	Scaffold1493	65719	AA	GG	1947010541
SNP_P4_162277_65786	NW_004516686.1	Scaffold1493	65786	CC	TT	1947010543
SNP_P4_162278_65917	NW_004516686.1	Scaffold1493	65917	TT	CC	1947010545
SNP_P4_162279_66126	NW_004516686.1	Scaffold1493	66126	TT	CC	1947010547
SNP_P4_162280_66157	NW_004516686.1	Scaffold1493	66157	CC	GG	1947010549
SNP_P4_162281_67212	NW_004516686.1	Scaffold1493	67212	AA	GG	1947010551
SNP_P4_162282_67213	NW_004516686.1	Scaffold1493	67213	GG	AA	1947010553
SNP_P4_162285_85017	NW_004516686.1	Scaffold1493	85017	TT	CC	1947010555
SNP_P4_162286_85049	NW_004516686.1	Scaffold1493	85049	TT	CC	1947010556
SNP_P4_162287_85114	NW_004516686.1	Scaffold1493	85114	GG	AA	1947010558
SNP_P4_162288_85126	NW_004516686.1	Scaffold1493	85126	TT	CC	1947010560
SNP_P4_162289_85145	NW_004516686.1	Scaffold1493	85145	AA	GG	1947010562
SNP_P4_162290_85210	NW_004516686.1	Scaffold1493	85210	TT	GG	1947010564
SNP_P4_162291_85373	NW_004516686.1	Scaffold1493	85373	TT	CC	1947010566
SNP_P4_162292_85401	NW_004516686.1	Scaffold1493	85401	GG	AA	1947010568
SNP_P4_162293_85428	NW_004516686.1	Scaffold1493	85428	CC	TT	1947010570
SNP_P4_162294_85431	NW_004516686.1	Scaffold1493	85431	GG	AA	1947010571
SNP_P4_162295_85451	NW_004516686.1	Scaffold1493	85451	CC	TT	1947010573
SNP_P4_162296_89579	NW_004516686.1	Scaffold1493	89579	AA	CC	1947010575
SNP_P4_162297_89830	NW_004516686.1	Scaffold1493	89830	TT	CC	1947010577
SNP_P4_162298_89893	NW_004516686.1	Scaffold1493	89893	TT	CC	1947010579
SNP_P4_162299_6446	NW_004516689.1	Scaffold1496	6446	GG	TT	1947010581
SNP_P4_162300_6447	NW_004516689.1	Scaffold1496	6447	TT	GG	1947010583
SNP_P4_162301_21393	NW_004516689.1	Scaffold1496	21393	AA	GG	1947010585
SNP_P4_162302_21432	NW_004516689.1	Scaffold1496	21432	TT	AA	1947010587
SNP_P4_162303_21476	NW_004516689.1	Scaffold1496	21476	TT	AA	1947010589
SNP_P4_162304_21482	NW_004516689.1	Scaffold1496	21482	TT	GG	1947010591
SNP_P4_162305_21507	NW_004516689.1	Scaffold1496	21507	TT	CC	1947010593
SNP_P4_162306_23365	NW_004516689.1	Scaffold1496	23365	CC	TT	1947010595
SNP_P4_162307_29234	NW_004516689.1	Scaffold1496	29234	AA	GG	1947010597
SNP_P4_162308_29295	NW_004516689.1	Scaffold1496	29295	TT	CC	1947010599

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_162310_68759	NW_004516689.1	Scaffold1496	68759	GG	AA	1947010603
SNP_P4_162311_68812	NW_004516689.1	Scaffold1496	68812	GG	AA	1947010604
SNP_P4_162312_68829	NW_004516689.1	Scaffold1496	68829	AA	GG	1947010606
SNP_P4_162313_81345	NW_004516689.1	Scaffold1496	81345	CC	TT	1947010608
SNP_P4_162314_81357	NW_004516689.1	Scaffold1496	81357	TT	GG	1947010610
SNP_P4_162315_82575	NW_004516689.1	Scaffold1496	82575	TT	AA	1947010612
SNP_P4_162316_82577	NW_004516689.1	Scaffold1496	82577	CC	AA	1947010614
SNP_P4_162317_87393	NW_004516689.1	Scaffold1496	87393	AA	TT	1947010616
SNP_P4_162318_107451	NW_004516689.1	Scaffold1496	107451	AA	GG	1947010618
SNP_P4_162319_121099	NW_004516689.1	Scaffold1496	121099	TT	CC	1947010620
SNP_P4_162320_123085	NW_004516689.1	Scaffold1496	123085	AA	CC	1947010622
SNP_P4_162321_123117	NW_004516689.1	Scaffold1496	123117	CC	TT	1947010624
SNP_P4_162322_123122	NW_004516689.1	Scaffold1496	123122	GG	AA	1947010625
SNP_P4_162323_123309	NW_004516689.1	Scaffold1496	123309	CC	TT	1947010627
SNP_P4_162324_123396	NW_004516689.1	Scaffold1496	123396	CC	TT	1947010629
SNP_P4_162326_123446	NW_004516689.1	Scaffold1496	123446	AA	GG	1947010631
SNP_P4_162328_137617	NW_004516689.1	Scaffold1496	137617	TT	CC	1947010633
SNP_P4_162329_139074	NW_004516689.1	Scaffold1496	139074	CC	TT	1947010635
SNP_P4_162330_139202	NW_004516689.1	Scaffold1496	139202	TT	CC	1947010637
SNP_P4_162331_147530	NW_004516689.1	Scaffold1496	147530	GG	AA	1947010639
SNP_P4_162332_147592	NW_004516689.1	Scaffold1496	147592	TT	CC	1947010641
SNP_P4_162334_178058	NW_004516689.1	Scaffold1496	178058	GG	TT	1947010643
SNP_P4_162336_189300	NW_004516689.1	Scaffold1496	189300	TT	CC	1947010645
SNP_P4_162337_194932	NW_004516689.1	Scaffold1496	194932	AA	GG	1947010647
SNP_P4_162338_202769	NW_004516689.1	Scaffold1496	202769	AA	GG	1947010649
SNP_P4_162339_202782	NW_004516689.1	Scaffold1496	202782	CC	AA	1947010651
SNP_P4_162340_205718	NW_004516689.1	Scaffold1496	205718	CC	TT	1947010653
SNP_P4_162341_206445	NW_004516689.1	Scaffold1496	206445	GG	AA	1947010655
SNP_P4_162342_206453	NW_004516689.1	Scaffold1496	206453	AA	GG	1947010657
SNP_P4_162343_206456	NW_004516689.1	Scaffold1496	206456	TT	CC	1947010659
SNP_P4_162344_206831	NW_004516689.1	Scaffold1496	206831	GG	TT	1947010661
SNP_P4_162345_210010	NW_004516689.1	Scaffold1496	210010	AA	TT	1947010663
SNP_P4_162346_213400	NW_004516689.1	Scaffold1496	213400	CC	AA	1947010665
SNP_P4_162347_215617	NW_004516689.1	Scaffold1496	215617	GG	AA	1947010667
SNP_P4_162348_229659	NW_004516689.1	Scaffold1496	229659	CC	AA	1947010669
SNP_P4_162349_229661	NW_004516689.1	Scaffold1496	229661	AA	GG	1947010671
SNP_P4_162350_231886	NW_004516689.1	Scaffold1496	231886	CC	AA	1947010672
SNP_P4_162354_237716	NW_004516689.1	Scaffold1496	237716	GG	AA	1947010673
SNP_P4_162355_238797	NW_004516689.1	Scaffold1496	238797	CC	TT	1947010674
SNP_P4_162356_238913	NW_004516689.1	Scaffold1496	238913	CC	TT	1947010675
SNP_P4_162357_246576	NW_004516689.1	Scaffold1496	246576	GG	AA	1947010676

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_162359_247630	NW_004516689.1	Scaffold1496	247630	GG	AA	1947010678
SNP_P4_162360_251082	NW_004516689.1	Scaffold1496	251082	TT	CC	1947010679
SNP_P4_162361_252720	NW_004516689.1	Scaffold1496	252720	CC	AA	1947010680
SNP_P4_162362_269540	NW_004516689.1	Scaffold1496	269540	CC	GG	1947010681
SNP_P4_162363_269957	NW_004516689.1	Scaffold1496	269957	GG	AA	1947010682
SNP_P4_162364_275732	NW_004516689.1	Scaffold1496	275732	TT	CC	1947010683
SNP_P4_162365_278252	NW_004516689.1	Scaffold1496	278252	TT	CC	1947010684
SNP_P4_162366_280558	NW_004516689.1	Scaffold1496	280558	CC	TT	1947010685
SNP_P4_162367_285645	NW_004516689.1	Scaffold1496	285645	GG	AA	1947010686
SNP_P4_162368_286202	NW_004516689.1	Scaffold1496	286202	GG	AA	1947010687
SNP_P4_162369_287858	NW_004516689.1	Scaffold1496	287858	GG	AA	1947010688
SNP_P4_162370_288407	NW_004516689.1	Scaffold1496	288407	CC	TT	1947010689
SNP_P4_162371_290711	NW_004516689.1	Scaffold1496	290711	TT	AA	1947010690
SNP_P4_162372_292029	NW_004516689.1	Scaffold1496	292029	TT	AA	1947010691
SNP_P4_162373_295690	NW_004516689.1	Scaffold1496	295690	TT	CC	1947010693
SNP_P4_162374_295699	NW_004516689.1	Scaffold1496	295699	TT	CC	1947010694
SNP_P4_162375_295721	NW_004516689.1	Scaffold1496	295721	CC	TT	1947010696
SNP_P4_162376_295732	NW_004516689.1	Scaffold1496	295732	CC	TT	1947010698
SNP_P4_162377_295734	NW_004516689.1	Scaffold1496	295734	AA	GG	1947010700
SNP_P4_162378_295740	NW_004516689.1	Scaffold1496	295740	AA	TT	1947010702
SNP_P4_162379_295923	NW_004516689.1	Scaffold1496	295923	TT	CC	1947010704
SNP_P4_162380_295934	NW_004516689.1	Scaffold1496	295934	TT	CC	1947010705
SNP_P4_162381_295936	NW_004516689.1	Scaffold1496	295936	GG	AA	1947010707
SNP_P4_162382_295942	NW_004516689.1	Scaffold1496	295942	TT	AA	1947010709
SNP_P4_162383_301288	NW_004516689.1	Scaffold1496	301288	CC	AA	1947010711
SNP_P4_162384_305593	NW_004516689.1	Scaffold1496	305593	AA	TT	1947010713
SNP_P4_162385_306831	NW_004516689.1	Scaffold1496	306831	GG	AA	1947010715
SNP_P4_162386_1834	NW_004516690.1	Scaffold1497	1834	CC	TT	1947010717
SNP_P4_162387_2325	NW_004516690.1	Scaffold1497	2325	AA	TT	1947010719
SNP_P4_162388_3538	NW_004516690.1	Scaffold1497	3538	TT	CC	1947010721
SNP_P4_162389_4072	NW_004516690.1	Scaffold1497	4072	AA	TT	1947010723
SNP_P4_162390_4127	NW_004516690.1	Scaffold1497	4127	CC	TT	1947010724
SNP_P4_162391_4152	NW_004516690.1	Scaffold1497	4152	AA	TT	1947010726
SNP_P4_162392_4231	NW_004516690.1	Scaffold1497	4231	TT	CC	1947010728
SNP_P4_162393_4247	NW_004516690.1	Scaffold1497	4247	TT	AA	1947010730
SNP_P4_162394_4425	NW_004516690.1	Scaffold1497	4425	AA	TT	1947010732
SNP_P4_162395_4534	NW_004516690.1	Scaffold1497	4534	CC	TT	1947010734
SNP_P4_162396_406	NW_004516691.1	Scaffold1498	406	CC	TT	1947010736
SNP_P4_162397_416	NW_004516691.1	Scaffold1498	416	CC	TT	1947010738
SNP_P4_162398_2082	NW_004516691.1	Scaffold1498	2082	CC	TT	1947010740
SNP_P4_162399_2316	NW_004516691.1	Scaffold1498	2316	GG	AA	1947010742

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_162401_2557	NW_004516691.1	Scaffold1498	2557	AA	CC	1947010746
SNP_P4_162402_2581	NW_004516691.1	Scaffold1498	2581	GG	AA	1947010748
SNP_P4_162403_440	NW_004516692.1	Scaffold1499	440	TT	CC	1947010750
SNP_P4_162404_546	NW_004516692.1	Scaffold1499	546	TT	CC	1947010752
SNP_P4_162405_592	NW_004516692.1	Scaffold1499	592	CC	AA	1947010754
SNP_P4_162407_998	NW_004516692.1	Scaffold1499	998	TT	AA	1947010756
SNP_P4_162408_1244	NW_004516692.1	Scaffold1499	1244	TT	CC	1947010758
SNP_P4_162409_3596	NW_004516692.1	Scaffold1499	3596	CC	AA	1947010760
SNP_P4_162410_3711	NW_004516692.1	Scaffold1499	3711	GG	AA	1947010762
SNP_P4_162412_4070	NW_004516692.1	Scaffold1499	4070	GG	AA	1947010764
SNP_P4_162413_4445	NW_004516692.1	Scaffold1499	4445	AA	TT	1947010766
SNP_P4_162414_4488	NW_004516692.1	Scaffold1499	4488	AA	GG	1947010768
SNP_P4_162415_7148	NW_004516692.1	Scaffold1499	7148	GG	TT	1947010770
SNP_P4_162417_11544	NW_004516692.1	Scaffold1499	11544	CC	TT	1947010771
SNP_P4_162418_11573	NW_004516692.1	Scaffold1499	11573	GG	AA	1947010773
SNP_P4_162419_11639	NW_004516692.1	Scaffold1499	11639	TT	CC	1947010775
SNP_P4_162420_11641	NW_004516692.1	Scaffold1499	11641	TT	AA	1947010777
SNP_P4_162421_11647	NW_004516692.1	Scaffold1499	11647	TT	CC	1947010779
SNP_P4_162422_11668	NW_004516692.1	Scaffold1499	11668	GG	AA	1947010781
SNP_P4_162423_11852	NW_004516692.1	Scaffold1499	11852	GG	AA	1947010783
SNP_P4_162424_12032	NW_004516692.1	Scaffold1499	12032	GG	AA	1947010785
SNP_P4_162425_12147	NW_004516692.1	Scaffold1499	12147	GG	TT	1947010787
SNP_P4_162426_12172	NW_004516692.1	Scaffold1499	12172	CC	TT	1947010789
SNP_P4_162427_12388	NW_004516692.1	Scaffold1499	12388	CC	TT	1947010791
SNP_P4_162428_12504	NW_004516692.1	Scaffold1499	12504	CC	AA	1947010792
SNP_P4_162429_12519	NW_004516692.1	Scaffold1499	12519	GG	AA	1947010794
SNP_P4_162430_12520	NW_004516692.1	Scaffold1499	12520	CC	GG	1947010796
SNP_P4_162431_12642	NW_004516692.1	Scaffold1499	12642	TT	CC	1947010798
SNP_P4_162432_12656	NW_004516692.1	Scaffold1499	12656	CC	AA	1947010800
SNP_P4_162434_12781	NW_004516692.1	Scaffold1499	12781	CC	TT	1947010802
SNP_P4_162436_19438	NW_004516692.1	Scaffold1499	19438	TT	GG	1947010804
SNP_P4_162437_19501	NW_004516692.1	Scaffold1499	19501	TT	CC	1947010806
SNP_P4_162438_20504	NW_004516692.1	Scaffold1499	20504	CC	AA	1947010808
SNP_P4_162439_20547	NW_004516692.1	Scaffold1499	20547	GG	TT	1947010810
SNP_P4_162441_25081	NW_004516692.1	Scaffold1499	25081	CC	TT	1947010812
SNP_P4_162442_28172	NW_004516692.1	Scaffold1499	28172	TT	GG	1947010814
SNP_P4_162443_29708	NW_004516692.1	Scaffold1499	29708	TT	AA	1947010816
SNP_P4_162445_29718	NW_004516692.1	Scaffold1499	29718	CC	TT	1947010818
SNP_P4_162446_29940	NW_004516692.1	Scaffold1499	29940	GG	AA	1947010820
SNP_P4_162447_29992	NW_004516692.1	Scaffold1499	29992	GG	AA	1947010822
SNP_P4_162448_34115	NW_004516692.1	Scaffold1499	34115	GG	AA	1947010824

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_162450_34256	NW_004516692.1	Scaffold1499	34256	AA	GG	1947010828
SNP_P4_162451_34326	NW_004516692.1	Scaffold1499	34326	AA	CC	1947010829
SNP_P4_162452_34350	NW_004516692.1	Scaffold1499	34350	AA	TT	1947010831
SNP_P4_162453_34357	NW_004516692.1	Scaffold1499	34357	GG	TT	1947010833
SNP_P4_162454_34419	NW_004516692.1	Scaffold1499	34419	GG	AA	1947010835
SNP_P4_162455_34433	NW_004516692.1	Scaffold1499	34433	TT	AA	1947010837
SNP_P4_162456_34447	NW_004516692.1	Scaffold1499	34447	AA	GG	1947010839
SNP_P4_162457_34486	NW_004516692.1	Scaffold1499	34486	GG	TT	1947010841
SNP_P4_162458_34492	NW_004516692.1	Scaffold1499	34492	CC	TT	1947010843
SNP_P4_162459_34568	NW_004516692.1	Scaffold1499	34568	AA	TT	1947010845
SNP_P4_162460_34629	NW_004516692.1	Scaffold1499	34629	GG	CC	1947010847
SNP_P4_162461_34648	NW_004516692.1	Scaffold1499	34648	CC	AA	1947010849
SNP_P4_162462_34664	NW_004516692.1	Scaffold1499	34664	TT	GG	1947010851
SNP_P4_162463_34682	NW_004516692.1	Scaffold1499	34682	CC	AA	1947010853
SNP_P4_162464_34819	NW_004516692.1	Scaffold1499	34819	AA	CC	1947010855
SNP_P4_162465_40095	NW_004516692.1	Scaffold1499	40095	AA	TT	1947010857
SNP_P4_162466_40154	NW_004516692.1	Scaffold1499	40154	CC	TT	1947010859
SNP_P4_162468_40356	NW_004516692.1	Scaffold1499	40356	CC	AA	1947010861
SNP_P4_162469_40365	NW_004516692.1	Scaffold1499	40365	CC	GG	1947010866
SNP_P4_162470_40373	NW_004516692.1	Scaffold1499	40373	CC	TT	1947010868
SNP_P4_162471_40426	NW_004516692.1	Scaffold1499	40426	CC	TT	1947010870
SNP_P4_162473_41673	NW_004516692.1	Scaffold1499	41673	GG	AA	1947010872
SNP_P4_162474_41760	NW_004516692.1	Scaffold1499	41760	TT	CC	1947010874
SNP_P4_162475_45905	NW_004516692.1	Scaffold1499	45905	AA	TT	1947010876
SNP_P4_162476_45906	NW_004516692.1	Scaffold1499	45906	AA	GG	1947010878
SNP_P4_162477_46071	NW_004516692.1	Scaffold1499	46071	AA	GG	1947010880
SNP_P4_162478_46207	NW_004516692.1	Scaffold1499	46207	TT	GG	1947010882
SNP_P4_162479_46233	NW_004516692.1	Scaffold1499	46233	GG	AA	1947010884
SNP_P4_162480_46241	NW_004516692.1	Scaffold1499	46241	CC	AA	1947010886
SNP_P4_162481_46315	NW_004516692.1	Scaffold1499	46315	GG	TT	1947010888
SNP_P4_162482_46320	NW_004516692.1	Scaffold1499	46320	AA	CC	1947010890
SNP_P4_162483_46514	NW_004516692.1	Scaffold1499	46514	AA	CC	1947010892
SNP_P4_162484_46603	NW_004516692.1	Scaffold1499	46603	AA	GG	1947010894
SNP_P4_162486_48715	NW_004516692.1	Scaffold1499	48715	GG	TT	1947010896
SNP_P4_162487_53866	NW_004516692.1	Scaffold1499	53866	CC	TT	1947010898
SNP_P4_162488_54367	NW_004516692.1	Scaffold1499	54367	AA	CC	1947010900
SNP_P4_162489_54382	NW_004516692.1	Scaffold1499	54382	AA	TT	1947010902
SNP_P4_162490_54392	NW_004516692.1	Scaffold1499	54392	CC	TT	1947010904
SNP_P4_162491_56354	NW_004516692.1	Scaffold1499	56354	AA	CC	1947010906
SNP_P4_162492_56817	NW_004516692.1	Scaffold1499	56817	CC	TT	1947010908
SNP_P4_162493_58419	NW_004516692.1	Scaffold1499	58419	GG	AA	1947010910

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_162495_59324	NW_004516692.1	Scaffold1499	59324	AA	GG	1947010914
SNP_P4_162496_59374	NW_004516692.1	Scaffold1499	59374	CC	TT	1947010916
SNP_P4_162497_60854	NW_004516692.1	Scaffold1499	60854	GG	AA	1947010918
SNP_P4_162501_65027	NW_004516692.1	Scaffold1499	65027	GG	AA	1947010920
SNP_P4_162503_71114	NW_004516692.1	Scaffold1499	71114	GG	AA	1947010922
SNP_P4_162504_84505	NW_004516692.1	Scaffold1499	84505	AA	GG	1947010924
SNP_P4_162506_93242	NW_004516692.1	Scaffold1499	93242	CC	TT	1947010926
SNP_P4_162507_93529	NW_004516692.1	Scaffold1499	93529	CC	TT	1947010928
SNP_P4_162508_106151	NW_004516692.1	Scaffold1499	106151	TT	GG	1947010930
SNP_P4_162511_112881	NW_004516692.1	Scaffold1499	112881	CC	TT	1947010932
SNP_P4_162512_115435	NW_004516692.1	Scaffold1499	115435	TT	CC	1947010934
SNP_P4_162513_116532	NW_004516692.1	Scaffold1499	116532	TT	CC	1947010936
SNP_P4_162514_121469	NW_004516692.1	Scaffold1499	121469	AA	GG	1947010938
SNP_P4_162515_124413	NW_004516692.1	Scaffold1499	124413	AA	GG	1947010940
SNP_P4_162517_130430	NW_004516692.1	Scaffold1499	130430	CC	AA	1947010942
SNP_P4_162518_139155	NW_004516692.1	Scaffold1499	139155	TT	CC	1947010944
SNP_P4_162519_139261	NW_004516692.1	Scaffold1499	139261	GG	AA	1947010946
SNP_P4_162521_145243	NW_004516692.1	Scaffold1499	145243	AA	GG	1947010948
SNP_P4_162522_145940	NW_004516692.1	Scaffold1499	145940	GG	TT	1947010951
SNP_P4_162523_152250	NW_004516692.1	Scaffold1499	152250	TT	CC	1947010953
SNP_P4_162524_158093	NW_004516692.1	Scaffold1499	158093	GG	AA	1947010955
SNP_P4_162525_214	NW_004516693.1	Scaffold1502	214	TT	CC	1947010957
SNP_P4_162526_727	NW_004516693.1	Scaffold1502	727	GG	AA	1947010959
SNP_P4_162528_1180	NW_004516693.1	Scaffold1502	1180	CC	GG	1947010961
SNP_P4_162529_1193	NW_004516693.1	Scaffold1502	1193	GG	TT	1947010963
SNP_P4_162530_1339	NW_004516693.1	Scaffold1502	1339	CC	TT	1947010965
SNP_P4_162531_1411	NW_004516693.1	Scaffold1502	1411	CC	TT	1947010967
SNP_P4_162532_1432	NW_004516693.1	Scaffold1502	1432	CC	AA	1947010969
SNP_P4_162534_10191	NW_004516694.1	Scaffold1504	10191	AA	GG	1947010971
SNP_P4_162535_10345	NW_004516694.1	Scaffold1504	10345	TT	GG	1947010973
SNP_P4_162536_10413	NW_004516694.1	Scaffold1504	10413	TT	CC	1947010976
SNP_P4_162537_114272	NW_004516694.1	Scaffold1504	114272	CC	TT	1947010978
SNP_P4_162538_114308	NW_004516694.1	Scaffold1504	114308	CC	TT	1947010980
SNP_P4_162539_117313	NW_004516694.1	Scaffold1504	117313	AA	GG	1947010982
SNP_P4_162540_135066	NW_004516694.1	Scaffold1504	135066	AA	TT	1947010984
SNP_P4_162541_140928	NW_004516694.1	Scaffold1504	140928	CC	GG	1947010986
SNP_P4_162542_141069	NW_004516694.1	Scaffold1504	141069	AA	GG	1947010988
SNP_P4_162543_141586	NW_004516694.1	Scaffold1504	141586	AA	GG	1947010990
SNP_P4_162544_161224	NW_004516694.1	Scaffold1504	161224	AA	GG	1947010992
SNP_P4_162545_161263	NW_004516694.1	Scaffold1504	161263	AA	TT	1947010994
SNP_P4_162546_161347	NW_004516694.1	Scaffold1504	161347	AA	GG	1947010996

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_162549_161685	NW_004516694.1	Scaffold1504	161685	TT	AA	1947011000
SNP_P4_162550_173983	NW_004516694.1	Scaffold1504	173983	AA	GG	1947011002
SNP_P4_162551_174106	NW_004516694.1	Scaffold1504	174106	GG	AA	1947011004
SNP_P4_162552_174467	NW_004516694.1	Scaffold1504	174467	AA	GG	1947011006
SNP_P4_162553_174493	NW_004516694.1	Scaffold1504	174493	GG	TT	1947011008
SNP_P4_162554_174519	NW_004516694.1	Scaffold1504	174519	AA	GG	1947011010
SNP_P4_162555_177293	NW_004516694.1	Scaffold1504	177293	GG	AA	1947011012
SNP_P4_162556_182222	NW_004516694.1	Scaffold1504	182222	AA	GG	1947011013
SNP_P4_162557_182247	NW_004516694.1	Scaffold1504	182247	GG	AA	1947011015
SNP_P4_162558_182267	NW_004516694.1	Scaffold1504	182267	AA	CC	1947011017
SNP_P4_162559_182283	NW_004516694.1	Scaffold1504	182283	CC	TT	1947011019
SNP_P4_162560_182375	NW_004516694.1	Scaffold1504	182375	CC	AA	1947011021
SNP_P4_162561_182420	NW_004516694.1	Scaffold1504	182420	CC	GG	1947011023
SNP_P4_162562_182567	NW_004516694.1	Scaffold1504	182567	AA	GG	1947011025
SNP_P4_162563_182672	NW_004516694.1	Scaffold1504	182672	TT	AA	1947011027
SNP_P4_162564_182685	NW_004516694.1	Scaffold1504	182685	AA	TT	1947011029
SNP_P4_162565_182754	NW_004516694.1	Scaffold1504	182754	TT	AA	1947011032
SNP_P4_162566_183604	NW_004516694.1	Scaffold1504	183604	TT	CC	1947011034
SNP_P4_162567_183607	NW_004516694.1	Scaffold1504	183607	TT	CC	1947011036
SNP_P4_162568_194930	NW_004516694.1	Scaffold1504	194930	GG	AA	1947011038
SNP_P4_162569_194941	NW_004516694.1	Scaffold1504	194941	AA	GG	1947011040
SNP_P4_162570_194993	NW_004516694.1	Scaffold1504	194993	AA	GG	1947011042
SNP_P4_162571_195005	NW_004516694.1	Scaffold1504	195005	TT	CC	1947011044
SNP_P4_162572_195014	NW_004516694.1	Scaffold1504	195014	AA	GG	1947011045
SNP_P4_162573_195029	NW_004516694.1	Scaffold1504	195029	CC	TT	1947011047
SNP_P4_162574_195044	NW_004516694.1	Scaffold1504	195044	AA	GG	1947011049
SNP_P4_162575_195313	NW_004516694.1	Scaffold1504	195313	TT	GG	1947011051
SNP_P4_162576_195375	NW_004516694.1	Scaffold1504	195375	CC	TT	1947011053
SNP_P4_162577_198188	NW_004516694.1	Scaffold1504	198188	TT	AA	1947011055
SNP_P4_162578_198199	NW_004516694.1	Scaffold1504	198199	GG	AA	1947011057
SNP_P4_162579_198207	NW_004516694.1	Scaffold1504	198207	GG	AA	1947011059
SNP_P4_162580_204759	NW_004516694.1	Scaffold1504	204759	AA	GG	1947011061
SNP_P4_162582_239015	NW_004516694.1	Scaffold1504	239015	GG	AA	1947011063
SNP_P4_162583_239018	NW_004516694.1	Scaffold1504	239018	GG	AA	1947011065
SNP_P4_162584_239021	NW_004516694.1	Scaffold1504	239021	GG	AA	1947011067
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SNP_P4_162586_239030	NW_004516694.1	Scaffold1504	239030	GG	AA	1947011071
SNP_P4_162587_239033	NW_004516694.1	Scaffold1504	239033	GG	AA	1947011073
SNP_P4_162588_240740	NW_004516694.1	Scaffold1504	240740	TT	GG	1947011075
SNP_P4_162589_240757	NW_004516694.1	Scaffold1504	240757	GG	AA	1947011077
SNP_P4_162590_240775	NW_004516694.1	Scaffold1504	240775	TT	GG	1947011079

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_162593_240793	NW_004516694.1	Scaffold1504	240793	CC	TT	1947011085
SNP_P4_162594_241130	NW_004516694.1	Scaffold1504	241130	TT	GG	1947011087
SNP_P4_162595_242855	NW_004516694.1	Scaffold1504	242855	GG	CC	1947011089
SNP_P4_162596_242878	NW_004516694.1	Scaffold1504	242878	AA	GG	1947011091
SNP_P4_162597_242890	NW_004516694.1	Scaffold1504	242890	AA	GG	1947011093
SNP_P4_162598_242893	NW_004516694.1	Scaffold1504	242893	GG	AA	1947011095
SNP_P4_162599_242922	NW_004516694.1	Scaffold1504	242922	GG	CC	1947011097
SNP_P4_162600_242944	NW_004516694.1	Scaffold1504	242944	TT	CC	1947011099
SNP_P4_162601_242980	NW_004516694.1	Scaffold1504	242980	CC	TT	1947011101
SNP_P4_162602_242993	NW_004516694.1	Scaffold1504	242993	CC	AA	1947011103
SNP_P4_162603_243871	NW_004516694.1	Scaffold1504	243871	TT	CC	1947011105
SNP_P4_162604_272582	NW_004516694.1	Scaffold1504	272582	TT	CC	1947011107
SNP_P4_162605_286614	NW_004516694.1	Scaffold1504	286614	AA	GG	1947011109
SNP_P4_162607_318576	NW_004516694.1	Scaffold1504	318576	CC	AA	1947011111
SNP_P4_162608_318595	NW_004516694.1	Scaffold1504	318595	TT	CC	1947011113
SNP_P4_162609_318645	NW_004516694.1	Scaffold1504	318645	TT	CC	1947011115
SNP_P4_162610_318844	NW_004516694.1	Scaffold1504	318844	TT	AA	1947011117
SNP_P4_162611_318875	NW_004516694.1	Scaffold1504	318875	AA	GG	1947011119
SNP_P4_162612_326379	NW_004516694.1	Scaffold1504	326379	TT	GG	1947011121
SNP_P4_162613_328714	NW_004516694.1	Scaffold1504	328714	GG	AA	1947011123
SNP_P4_162614_328717	NW_004516694.1	Scaffold1504	328717	GG	AA	1947011125
SNP_P4_162615_342876	NW_004516694.1	Scaffold1504	342876	CC	GG	1947011127
SNP_P4_162616_347124	NW_004516694.1	Scaffold1504	347124	CC	TT	1947011129
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SNP_P4_162620_398289	NW_004516694.1	Scaffold1504	398289	GG	TT	1947011135
SNP_P4_162621_398300	NW_004516694.1	Scaffold1504	398300	AA	GG	1947011137
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SNP_P4_162623_398347	NW_004516694.1	Scaffold1504	398347	TT	CC	1947011141
SNP_P4_162624_398802	NW_004516694.1	Scaffold1504	398802	AA	GG	1947011143
SNP_P4_162625_15192	NW_004516695.1	Scaffold1505	15192	CC	TT	1947011145
SNP_P4_162626_14013	NW_004516696.1	Scaffold1506	14013	AA	TT	1947011147
SNP_P4_162627_14021	NW_004516696.1	Scaffold1506	14021	TT	CC	1947011149
SNP_P4_162628_14041	NW_004516696.1	Scaffold1506	14041	TT	AA	1947011151
SNP_P4_162629_14237	NW_004516696.1	Scaffold1506	14237	AA	GG	1947011153
SNP_P4_162630_14254	NW_004516696.1	Scaffold1506	14254	TT	AA	1947011155
SNP_P4_162631_14330	NW_004516696.1	Scaffold1506	14330	AA	TT	1947011157
SNP_P4_162632_14407	NW_004516696.1	Scaffold1506	14407	CC	TT	1947011159
SNP_P4_162633_14418	NW_004516696.1	Scaffold1506	14418	TT	CC	1947011161
SNP_P4_162634_15768	NW_004516696.1	Scaffold1506	15768	TT	CC	1947011163

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_162635_39417	NW_004516696.1	Scaffold1506	39417	CC	TT	1947011165
SNP_P4_162636_59354	NW_004516696.1	Scaffold1506	59354	GG	AA	1947011167
SNP_P4_162637_103299	NW_004516696.1	Scaffold1506	103299	AA	GG	1947011169
SNP_P4_162638_103725	NW_004516696.1	Scaffold1506	103725	AA	CC	1947011171
SNP_P4_162639_103726	NW_004516696.1	Scaffold1506	103726	TT	AA	1947011173
SNP_P4_162640_103730	NW_004516696.1	Scaffold1506	103730	AA	CC	1947011175
SNP_P4_162641_103742	NW_004516696.1	Scaffold1506	103742	TT	CC	1947011177
SNP_P4_162643_169	NW_004516697.1	Scaffold1507	169	CC	GG	1947011179
SNP_P4_162644_233	NW_004516697.1	Scaffold1507	233	GG	CC	1947011181
SNP_P4_162645_30417	NW_004516697.1	Scaffold1507	30417	AA	TT	1947011183
SNP_P4_162646_30559	NW_004516697.1	Scaffold1507	30559	TT	GG	1947011185
SNP_P4_162647_6184	NW_004516698.1	Scaffold1508	6184	CC	GG	1947011187
SNP_P4_162648_6194	NW_004516698.1	Scaffold1508	6194	AA	GG	1947011189
SNP_P4_162649_17316	NW_004516698.1	Scaffold1508	17316	TT	CC	1947011191
SNP_P4_162650_30295	NW_004516698.1	Scaffold1508	30295	GG	CC	1947011193
SNP_P4_162651_47199	NW_004516698.1	Scaffold1508	47199	AA	CC	1947011195
SNP_P4_162652_55431	NW_004516698.1	Scaffold1508	55431	TT	CC	1947011197
SNP_P4_162653_59480	NW_004516698.1	Scaffold1508	59480	GG	AA	1947011199
SNP_P4_162654_60310	NW_004516698.1	Scaffold1508	60310	AA	GG	1947011201
SNP_P4_162655_79733	NW_004516698.1	Scaffold1508	79733	AA	GG	1947011202
SNP_P4_162656_84264	NW_004516698.1	Scaffold1508	84264	TT	GG	1947011204
SNP_P4_162657_84495	NW_004516698.1	Scaffold1508	84495	AA	TT	1947011206
SNP_P4_162658_115931	NW_004516698.1	Scaffold1508	115931	GG	AA	1947011208
SNP_P4_162659_760	NW_004516700.1	Scaffold1511	760	AA	GG	1947011210
SNP_P4_162660_1277	NW_004516700.1	Scaffold1511	1277	CC	TT	1947011212
SNP_P4_162661_1436	NW_004516700.1	Scaffold1511	1436	AA	GG	1947011214
SNP_P4_162662_2660	NW_004516700.1	Scaffold1511	2660	AA	TT	1947011216
SNP_P4_162663_4893	NW_004516700.1	Scaffold1511	4893	CC	TT	1947011218
SNP_P4_162664_11943	NW_004516700.1	Scaffold1511	11943	AA	TT	1947011220
SNP_P4_162665_14814	NW_004516700.1	Scaffold1511	14814	GG	AA	1947011222
SNP_P4_162666_14851	NW_004516700.1	Scaffold1511	14851	TT	AA	1947011224
SNP_P4_162667_14880	NW_004516700.1	Scaffold1511	14880	CC	TT	1947011226
SNP_P4_162668_19442	NW_004516700.1	Scaffold1511	19442	CC	TT	1947011228
SNP_P4_162669_24718	NW_004516700.1	Scaffold1511	24718	CC	TT	1947011230
SNP_P4_162670_25076	NW_004516700.1	Scaffold1511	25076	AA	GG	1947011232
SNP_P4_162672_27234	NW_004516700.1	Scaffold1511	27234	TT	GG	1947011234
SNP_P4_162673_30730	NW_004516700.1	Scaffold1511	30730	TT	AA	1947011236
SNP_P4_162674_30917	NW_004516700.1	Scaffold1511	30917	AA	GG	1947011238
SNP_P4_162675_32626	NW_004516700.1	Scaffold1511	32626	TT	GG	1947011240
SNP_P4_162676_34272	NW_004516700.1	Scaffold1511	34272	TT	GG	1947011242
SNP_P4_162677_34289	NW_004516700.1	Scaffold1511	34289	CC	GG	1947011244
SNP_P4_162678_34434	NW_004516700.1	Scaffold1511	34434	AA	GG	1947011246

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_162680_38724	NW_004516700.1	Scaffold1511	38724	TT	CC	1947011250
SNP_P4_162681_38772	NW_004516700.1	Scaffold1511	38772	GG	AA	1947011252
SNP_P4_162682_39855	NW_004516700.1	Scaffold1511	39855	AA	GG	1947011254
SNP_P4_162683_41106	NW_004516700.1	Scaffold1511	41106	AA	GG	1947011256
SNP_P4_162684_42121	NW_004516700.1	Scaffold1511	42121	AA	GG	1947011257
SNP_P4_162685_44432	NW_004516700.1	Scaffold1511	44432	GG	AA	1947011258
SNP_P4_162686_47667	NW_004516700.1	Scaffold1511	47667	CC	TT	1947011259
SNP_P4_162687_47768	NW_004516700.1	Scaffold1511	47768	GG	AA	1947011260
SNP_P4_162688_47846	NW_004516700.1	Scaffold1511	47846	AA	CC	1947011261
SNP_P4_162689_47932	NW_004516700.1	Scaffold1511	47932	CC	GG	1947011263
SNP_P4_162690_47942	NW_004516700.1	Scaffold1511	47942	TT	GG	1947011265
SNP_P4_162691_52133	NW_004516700.1	Scaffold1511	52133	TT	AA	1947011267
SNP_P4_162692_52201	NW_004516700.1	Scaffold1511	52201	TT	CC	1947011269
SNP_P4_162693_58411	NW_004516700.1	Scaffold1511	58411	AA	CC	1947011271
SNP_P4_162694_59122	NW_004516700.1	Scaffold1511	59122	AA	GG	1947011273
SNP_P4_162697_65556	NW_004516700.1	Scaffold1511	65556	TT	CC	1947011275
SNP_P4_162699_75255	NW_004516700.1	Scaffold1511	75255	GG	CC	1947011277
SNP_P4_162701_80673	NW_004516700.1	Scaffold1511	80673	TT	GG	1947011279
SNP_P4_162702_81331	NW_004516700.1	Scaffold1511	81331	GG	AA	1947011281
SNP_P4_162703_81412	NW_004516700.1	Scaffold1511	81412	TT	CC	1947011283
SNP_P4_162704_81620	NW_004516700.1	Scaffold1511	81620	TT	AA	1947011285
SNP_P4_162705_82377	NW_004516700.1	Scaffold1511	82377	CC	TT	1947011287
SNP_P4_162706_82734	NW_004516700.1	Scaffold1511	82734	TT	CC	1947011289
SNP_P4_162707_82742	NW_004516700.1	Scaffold1511	82742	TT	CC	1947011291
SNP_P4_162708_82803	NW_004516700.1	Scaffold1511	82803	AA	CC	1947011293
SNP_P4_162709_82851	NW_004516700.1	Scaffold1511	82851	AA	TT	1947011295
SNP_P4_162710_82936	NW_004516700.1	Scaffold1511	82936	GG	AA	1947011297
SNP_P4_162711_83141	NW_004516700.1	Scaffold1511	83141	AA	GG	1947011299
SNP_P4_162712_83615	NW_004516700.1	Scaffold1511	83615	TT	AA	1947011301
SNP_P4_162713_85907	NW_004516700.1	Scaffold1511	85907	AA	GG	1947011303
SNP_P4_162715_86417	NW_004516700.1	Scaffold1511	86417	AA	CC	1947011305
SNP_P4_162716_88325	NW_004516700.1	Scaffold1511	88325	CC	TT	1947011307
SNP_P4_162717_88355	NW_004516700.1	Scaffold1511	88355	GG	AA	1947011308
SNP_P4_162718_88373	NW_004516700.1	Scaffold1511	88373	TT	CC	1947011310
SNP_P4_162719_90802	NW_004516700.1	Scaffold1511	90802	TT	CC	1947011312
SNP_P4_162720_91104	NW_004516700.1	Scaffold1511	91104	AA	CC	1947011314
SNP_P4_162721_91132	NW_004516700.1	Scaffold1511	91132	CC	TT	1947011316
SNP_P4_162722_91235	NW_004516700.1	Scaffold1511	91235	AA	CC	1947011318
SNP_P4_162724_94565	NW_004516700.1	Scaffold1511	94565	TT	GG	1947011320
SNP_P4_162725_94655	NW_004516700.1	Scaffold1511	94655	GG	TT	1947011322
SNP_P4_162726_95425	NW_004516700.1	Scaffold1511	95425	GG	TT	1947011324

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_162728_96098	NW_004516700.1	Scaffold1511	96098	CC	TT	1947011328
SNP_P4_162729_98053	NW_004516700.1	Scaffold1511	98053	AA	GG	1947011330
SNP_P4_162730_99709	NW_004516700.1	Scaffold1511	99709	GG	AA	1947011332
SNP_P4_162731_101137	NW_004516700.1	Scaffold1511	101137	AA	GG	1947011334
SNP_P4_162732_102480	NW_004516700.1	Scaffold1511	102480	AA	GG	1947011336
SNP_P4_162733_102908	NW_004516700.1	Scaffold1511	102908	TT	CC	1947011338
SNP_P4_162734_103541	NW_004516700.1	Scaffold1511	103541	GG	AA	1947011340
SNP_P4_162735_104734	NW_004516700.1	Scaffold1511	104734	TT	AA	1947011342
SNP_P4_162736_104742	NW_004516700.1	Scaffold1511	104742	CC	TT	1947011344
SNP_P4_162737_105848	NW_004516700.1	Scaffold1511	105848	GG	CC	1947011346
SNP_P4_162738_107259	NW_004516700.1	Scaffold1511	107259	CC	TT	1947011348
SNP_P4_162740_110258	NW_004516700.1	Scaffold1511	110258	TT	AA	1947011350
SNP_P4_162741_111753	NW_004516700.1	Scaffold1511	111753	AA	GG	1947011352
SNP_P4_162742_111767	NW_004516700.1	Scaffold1511	111767	AA	CC	1947011354
SNP_P4_162743_111806	NW_004516700.1	Scaffold1511	111806	TT	CC	1947011356
SNP_P4_162744_111846	NW_004516700.1	Scaffold1511	111846	TT	CC	1947011358
SNP_P4_162745_114850	NW_004516700.1	Scaffold1511	114850	GG	AA	1947011360
SNP_P4_162746_116040	NW_004516700.1	Scaffold1511	116040	TT	GG	1947011362
SNP_P4_162747_116381	NW_004516700.1	Scaffold1511	116381	TT	GG	1947011364
SNP_P4_162749_117847	NW_004516700.1	Scaffold1511	117847	TT	GG	1947011366
SNP_P4_162750_122120	NW_004516700.1	Scaffold1511	122120	TT	CC	1947011368
SNP_P4_162751_122175	NW_004516700.1	Scaffold1511	122175	TT	CC	1947011370
SNP_P4_162752_122359	NW_004516700.1	Scaffold1511	122359	TT	GG	1947011372
SNP_P4_162753_122363	NW_004516700.1	Scaffold1511	122363	AA	TT	1947011374
SNP_P4_162754_122392	NW_004516700.1	Scaffold1511	122392	AA	GG	1947011376
SNP_P4_162755_122575	NW_004516700.1	Scaffold1511	122575	TT	CC	1947011378
SNP_P4_162756_122703	NW_004516700.1	Scaffold1511	122703	AA	GG	1947011380
SNP_P4_162757_122843	NW_004516700.1	Scaffold1511	122843	CC	TT	1947011382
SNP_P4_162758_124385	NW_004516700.1	Scaffold1511	124385	GG	TT	1947011385
SNP_P4_162759_125246	NW_004516700.1	Scaffold1511	125246	GG	TT	1947011388
SNP_P4_162760_125254	NW_004516700.1	Scaffold1511	125254	TT	AA	1947011390
SNP_P4_162761_125574	NW_004516700.1	Scaffold1511	125574	GG	AA	1947011392
SNP_P4_162763_129068	NW_004516700.1	Scaffold1511	129068	GG	AA	1947011394
SNP_P4_162764_130282	NW_004516700.1	Scaffold1511	130282	AA	TT	1947011396
SNP_P4_162765_133165	NW_004516700.1	Scaffold1511	133165	AA	GG	1947011398
SNP_P4_162766_135099	NW_004516700.1	Scaffold1511	135099	CC	TT	1947011400
SNP_P4_162767_135326	NW_004516700.1	Scaffold1511	135326	CC	TT	1947011402
SNP_P4_162768_135873	NW_004516700.1	Scaffold1511	135873	CC	TT	1947011405
SNP_P4_162769_136394	NW_004516700.1	Scaffold1511	136394	TT	CC	1947011407
SNP_P4_162770_137060	NW_004516700.1	Scaffold1511	137060	CC	TT	1947011409
SNP_P4_162771_137231	NW_004516700.1	Scaffold1511	137231	AA	CC	1947011411

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_162774_146114	NW_004516700.1	Scaffold1511	146114	CC	TT	1947011416
SNP_P4_162776_152522	NW_004516700.1	Scaffold1511	152522	GG	AA	1947011418
SNP_P4_162777_152611	NW_004516700.1	Scaffold1511	152611	AA	GG	1947011420
SNP_P4_162778_152614	NW_004516700.1	Scaffold1511	152614	AA	TT	1947011422
SNP_P4_162779_153172	NW_004516700.1	Scaffold1511	153172	GG	AA	1947011424
SNP_P4_162780_154498	NW_004516700.1	Scaffold1511	154498	GG	AA	1947011426
SNP_P4_162781_154867	NW_004516700.1	Scaffold1511	154867	AA	GG	1947011428
SNP_P4_162782_155545	NW_004516700.1	Scaffold1511	155545	TT	CC	1947011430
SNP_P4_162783_155547	NW_004516700.1	Scaffold1511	155547	AA	CC	1947011433
SNP_P4_162784_157473	NW_004516700.1	Scaffold1511	157473	CC	AA	1947011435
SNP_P4_162785_163341	NW_004516700.1	Scaffold1511	163341	CC	GG	1947011437
SNP_P4_162787_164202	NW_004516700.1	Scaffold1511	164202	AA	GG	1947011439
SNP_P4_162788_164221	NW_004516700.1	Scaffold1511	164221	AA	TT	1947011441
SNP_P4_162789_164638	NW_004516700.1	Scaffold1511	164638	GG	TT	1947011443
SNP_P4_162790_164795	NW_004516700.1	Scaffold1511	164795	AA	CC	1947011445
SNP_P4_162791_165142	NW_004516700.1	Scaffold1511	165142	AA	GG	1947011447
SNP_P4_162792_167119	NW_004516700.1	Scaffold1511	167119	GG	CC	1947011449
SNP_P4_162794_167925	NW_004516700.1	Scaffold1511	167925	AA	GG	1947011451
SNP_P4_162796_170080	NW_004516700.1	Scaffold1511	170080	TT	CC	1947011453
SNP_P4_162797_170276	NW_004516700.1	Scaffold1511	170276	AA	GG	1947011455
SNP_P4_162798_173462	NW_004516700.1	Scaffold1511	173462	CC	TT	1947011457
SNP_P4_162799_173774	NW_004516700.1	Scaffold1511	173774	CC	TT	1947011459
SNP_P4_162801_174277	NW_004516700.1	Scaffold1511	174277	GG	AA	1947011461
SNP_P4_162802_174414	NW_004516700.1	Scaffold1511	174414	AA	GG	1947011464
SNP_P4_162803_174417	NW_004516700.1	Scaffold1511	174417	GG	CC	1947011466
SNP_P4_162804_174581	NW_004516700.1	Scaffold1511	174581	TT	CC	1947011468
SNP_P4_162805_174631	NW_004516700.1	Scaffold1511	174631	AA	GG	1947011470
SNP_P4_162806_174643	NW_004516700.1	Scaffold1511	174643	CC	GG	1947011472
SNP_P4_162807_174676	NW_004516700.1	Scaffold1511	174676	GG	TT	1947011474
SNP_P4_162808_174693	NW_004516700.1	Scaffold1511	174693	TT	CC	1947011476
SNP_P4_162809_174811	NW_004516700.1	Scaffold1511	174811	TT	CC	1947011478
SNP_P4_162810_175182	NW_004516700.1	Scaffold1511	175182	CC	TT	1947011480
SNP_P4_162811_175197	NW_004516700.1	Scaffold1511	175197	GG	AA	1947011482
SNP_P4_162812_176590	NW_004516700.1	Scaffold1511	176590	GG	TT	1947011484
SNP_P4_162813_176606	NW_004516700.1	Scaffold1511	176606	CC	TT	1947011486
SNP_P4_162814_176630	NW_004516700.1	Scaffold1511	176630	GG	AA	1947011488
SNP_P4_162815_177175	NW_004516700.1	Scaffold1511	177175	TT	CC	1947011490
SNP_P4_162817_179285	NW_004516700.1	Scaffold1511	179285	AA	TT	1947011492
SNP_P4_162819_180354	NW_004516700.1	Scaffold1511	180354	AA	CC	1947011494
SNP_P4_162820_181038	NW_004516700.1	Scaffold1511	181038	AA	GG	1947011496
SNP_P4_162821_181755	NW_004516700.1	Scaffold1511	181755	GG	AA	1947011498

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_162823_182018	NW_004516700.1	Scaffold1511	182018	AA	TT	1947011502
SNP_P4_162824_182870	NW_004516700.1	Scaffold1511	182870	CC	AA	1947011504
SNP_P4_162825_183361	NW_004516700.1	Scaffold1511	183361	AA	TT	1947011506
SNP_P4_162826_183406	NW_004516700.1	Scaffold1511	183406	TT	GG	1947011508
SNP_P4_162827_187622	NW_004516700.1	Scaffold1511	187622	TT	GG	1947011510
SNP_P4_162828_188123	NW_004516700.1	Scaffold1511	188123	CC	TT	1947011512
SNP_P4_162829_188124	NW_004516700.1	Scaffold1511	188124	TT	CC	1947011514
SNP_P4_162830_188129	NW_004516700.1	Scaffold1511	188129	TT	AA	1947011516
SNP_P4_162831_190982	NW_004516700.1	Scaffold1511	190982	GG	AA	1947011518
SNP_P4_162833_191339	NW_004516700.1	Scaffold1511	191339	TT	CC	1947011520
SNP_P4_162835_8544	NW_004516701.1	Scaffold1512	8544	CC	AA	1947011522
SNP_P4_162836_9174	NW_004516701.1	Scaffold1512	9174	AA	GG	1947011524
SNP_P4_162837_1112	NW_004516704.1	Scaffold1515	1112	TT	CC	1947011526
SNP_P4_162838_8893	NW_004516704.1	Scaffold1515	8893	AA	GG	1947011528
SNP_P4_162839_9056	NW_004516704.1	Scaffold1515	9056	TT	CC	1947011530
SNP_P4_162840_9115	NW_004516704.1	Scaffold1515	9115	TT	CC	1947011532
SNP_P4_162841_9254	NW_004516704.1	Scaffold1515	9254	TT	AA	1947011534
SNP_P4_162842_9263	NW_004516704.1	Scaffold1515	9263	TT	AA	1947011536
SNP_P4_162843_9358	NW_004516704.1	Scaffold1515	9358	GG	AA	1947011538
SNP_P4_162844_9385	NW_004516704.1	Scaffold1515	9385	AA	CC	1947011540
SNP_P4_162845_9387	NW_004516704.1	Scaffold1515	9387	GG	TT	1947011542
SNP_P4_162846_9455	NW_004516704.1	Scaffold1515	9455	AA	CC	1947011545
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SNP_P4_162848_9548	NW_004516704.1	Scaffold1515	9548	TT	CC	1947011549
SNP_P4_162849_9675	NW_004516704.1	Scaffold1515	9675	AA	TT	1947011551
SNP_P4_162850_9791	NW_004516704.1	Scaffold1515	9791	CC	TT	1947011553
SNP_P4_162851_9885	NW_004516704.1	Scaffold1515	9885	AA	GG	1947011555
SNP_P4_162852_9909	NW_004516704.1	Scaffold1515	9909	AA	GG	1947011557
SNP_P4_162853_10026	NW_004516704.1	Scaffold1515	10026	TT	CC	1947011559
SNP_P4_162854_10090	NW_004516704.1	Scaffold1515	10090	CC	TT	1947011562
SNP_P4_162855_10329	NW_004516704.1	Scaffold1515	10329	TT	CC	1947011564
SNP_P4_162856_10394	NW_004516704.1	Scaffold1515	10394	TT	CC	1947011566
SNP_P4_162857_10400	NW_004516704.1	Scaffold1515	10400	CC	AA	1947011568
SNP_P4_162858_10471	NW_004516704.1	Scaffold1515	10471	TT	AA	1947011570
SNP_P4_162859_15072	NW_004516704.1	Scaffold1515	15072	TT	AA	1947011572
SNP_P4_162860_15278	NW_004516704.1	Scaffold1515	15278	CC	AA	1947011574
SNP_P4_162861_15280	NW_004516704.1	Scaffold1515	15280	GG	AA	1947011576
SNP_P4_162862_15383	NW_004516704.1	Scaffold1515	15383	CC	TT	1947011578
SNP_P4_162863_15413	NW_004516704.1	Scaffold1515	15413	CC	TT	1947011580
SNP_P4_162864_15424	NW_004516704.1	Scaffold1515	15424	TT	CC	1947011582
SNP_P4_162865_15460	NW_004516704.1	Scaffold1515	15460	CC	GG	1947011584

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_162866_15506	NW_004516704.1	Scaffold1515	15506	TT	AA	1947011586
SNP_P4_162868_15699	NW_004516704.1	Scaffold1515	15699	AA	CC	1947011588
SNP_P4_162869_15775	NW_004516704.1	Scaffold1515	15775	TT	CC	1947011590
SNP_P4_162870_17493	NW_004516704.1	Scaffold1515	17493	TT	CC	1947011592
SNP_P4_162871_17517	NW_004516704.1	Scaffold1515	17517	TT	CC	1947011594
SNP_P4_162872_17765	NW_004516704.1	Scaffold1515	17765	GG	AA	1947011596
SNP_P4_162873_17835	NW_004516704.1	Scaffold1515	17835	GG	AA	1947011598
SNP_P4_162874_18024	NW_004516704.1	Scaffold1515	18024	GG	AA	1947011600
SNP_P4_162875_18052	NW_004516704.1	Scaffold1515	18052	TT	CC	1947011602
SNP_P4_162876_18201	NW_004516704.1	Scaffold1515	18201	CC	TT	1947011604
SNP_P4_162878_30530	NW_004516704.1	Scaffold1515	30530	TT	CC	1947011606
SNP_P4_162879_33646	NW_004516704.1	Scaffold1515	33646	GG	AA	1947011608
SNP_P4_162880_531	NW_004516705.1	Scaffold1516	531	GG	TT	1947011610
SNP_P4_162881_554	NW_004516705.1	Scaffold1516	554	TT	GG	1947011612
SNP_P4_162882_574	NW_004516705.1	Scaffold1516	574	GG	CC	1947011614
SNP_P4_162883_825	NW_004516705.1	Scaffold1516	825	GG	TT	1947011616
SNP_P4_162884_2725	NW_004516705.1	Scaffold1516	2725	GG	TT	1947011618
SNP_P4_162885_2978	NW_004516705.1	Scaffold1516	2978	AA	TT	1947011620
SNP_P4_162886_3038	NW_004516705.1	Scaffold1516	3038	GG	TT	1947011622
SNP_P4_162887_3058	NW_004516705.1	Scaffold1516	3058	AA	CC	1947011624
SNP_P4_162888_3059	NW_004516705.1	Scaffold1516	3059	TT	AA	1947011626
SNP_P4_162889_3084	NW_004516705.1	Scaffold1516	3084	GG	AA	1947011628
SNP_P4_162890_3085	NW_004516705.1	Scaffold1516	3085	GG	AA	1947011630
SNP_P4_162892_3469	NW_004516705.1	Scaffold1516	3469	TT	CC	1947011632
SNP_P4_162893_3522	NW_004516705.1	Scaffold1516	3522	TT	GG	1947011634
SNP_P4_162894_8044	NW_004516705.1	Scaffold1516	8044	CC	TT	1947011635
SNP_P4_162895_8143	NW_004516705.1	Scaffold1516	8143	TT	CC	1947011637
SNP_P4_162896_8320	NW_004516705.1	Scaffold1516	8320	AA	CC	1947011639
SNP_P4_162897_8430	NW_004516705.1	Scaffold1516	8430	GG	AA	1947011641
SNP_P4_162898_8441	NW_004516705.1	Scaffold1516	8441	CC	GG	1947011643
SNP_P4_162899_8649	NW_004516705.1	Scaffold1516	8649	TT	AA	1947011645
SNP_P4_162900_9061	NW_004516705.1	Scaffold1516	9061	CC	AA	1947011647
SNP_P4_162901_9101	NW_004516705.1	Scaffold1516	9101	TT	CC	1947011649
SNP_P4_162902_9111	NW_004516705.1	Scaffold1516	9111	TT	CC	1947011651
SNP_P4_162903_3303	NW_004516706.1	Scaffold1519	3303	TT	GG	1947011653
SNP_P4_162904_3888	NW_004516706.1	Scaffold1519	3888	GG	TT	1947011655
SNP_P4_162905_4109	NW_004516706.1	Scaffold1519	4109	CC	AA	1947011657
SNP_P4_162906_4144	NW_004516706.1	Scaffold1519	4144	AA	GG	1947011659
SNP_P4_162907_4145	NW_004516706.1	Scaffold1519	4145	TT	GG	1947011661
SNP_P4_162908_16951	NW_004516706.1	Scaffold1519	16951	TT	CC	1947011663
SNP_P4_162909_16993	NW_004516706.1	Scaffold1519	16993	TT	CC	1947011665
SNP_P4_162910_425	NW_004516708.1	Scaffold1521	425	TT	GG	1947011667

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_162911_559	NW_004516708.1	Scaffold1521	559	GG	AA	1947011669
SNP_P4_162912_593	NW_004516708.1	Scaffold1521	593	AA	GG	1947011671
SNP_P4_162913_599	NW_004516708.1	Scaffold1521	599	AA	GG	1947011673
SNP_P4_162914_632	NW_004516708.1	Scaffold1521	632	AA	CC	1947011675
SNP_P4_162915_657	NW_004516708.1	Scaffold1521	657	AA	TT	1947011677
SNP_P4_162916_705	NW_004516708.1	Scaffold1521	705	CC	TT	1947011679
SNP_P4_162917_725	NW_004516708.1	Scaffold1521	725	CC	TT	1947011681
SNP_P4_162918_992	NW_004516708.1	Scaffold1521	992	TT	GG	1947011683
SNP_P4_162919_1036	NW_004516708.1	Scaffold1521	1036	TT	GG	1947011685
SNP_P4_162920_5730	NW_004516708.1	Scaffold1521	5730	AA	TT	1947011687
SNP_P4_162921_5903	NW_004516708.1	Scaffold1521	5903	AA	TT	1947011689
SNP_P4_162922_5913	NW_004516708.1	Scaffold1521	5913	CC	TT	1947011691
SNP_P4_162923_6874	NW_004516708.1	Scaffold1521	6874	CC	AA	1947011693
SNP_P4_162924_7001	NW_004516708.1	Scaffold1521	7001	TT	AA	1947011695
SNP_P4_162925_7659	NW_004516708.1	Scaffold1521	7659	TT	GG	1947011697
SNP_P4_162926_8212	NW_004516708.1	Scaffold1521	8212	TT	CC	1947011699
SNP_P4_162927_8220	NW_004516708.1	Scaffold1521	8220	AA	CC	1947011701
SNP_P4_162928_8339	NW_004516708.1	Scaffold1521	8339	AA	CC	1947011703
SNP_P4_162929_8365	NW_004516708.1	Scaffold1521	8365	AA	TT	1947011705
SNP_P4_162930_8370	NW_004516708.1	Scaffold1521	8370	AA	TT	1947011707
SNP_P4_162931_8377	NW_004516708.1	Scaffold1521	8377	AA	TT	1947011709
SNP_P4_162932_8383	NW_004516708.1	Scaffold1521	8383	TT	GG	1947011711
SNP_P4_162933_8620	NW_004516708.1	Scaffold1521	8620	AA	GG	1947011713
SNP_P4_162934_8643	NW_004516708.1	Scaffold1521	8643	TT	CC	1947011715
SNP_P4_162935_10337	NW_004516708.1	Scaffold1521	10337	TT	CC	1947011717
SNP_P4_162936_10345	NW_004516708.1	Scaffold1521	10345	TT	AA	1947011719
SNP_P4_162937_10356	NW_004516708.1	Scaffold1521	10356	TT	AA	1947011721
SNP_P4_162938_10386	NW_004516708.1	Scaffold1521	10386	GG	AA	1947011723
SNP_P4_162939_10400	NW_004516708.1	Scaffold1521	10400	CC	TT	1947011725
SNP_P4_162940_10585	NW_004516708.1	Scaffold1521	10585	GG	TT	1947011727
SNP_P4_162941_10747	NW_004516708.1	Scaffold1521	10747	GG	TT	1947011729
SNP_P4_162942_10757	NW_004516708.1	Scaffold1521	10757	TT	CC	1947011731
SNP_P4_162944_11999	NW_004516708.1	Scaffold1521	11999	CC	TT	1947011733
SNP_P4_162945_13482	NW_004516708.1	Scaffold1521	13482	GG	AA	1947011735
SNP_P4_162948_15273	NW_004516708.1	Scaffold1521	15273	TT	CC	1947011737
SNP_P4_162949_15300	NW_004516708.1	Scaffold1521	15300	TT	AA	1947011739
SNP_P4_162950_15309	NW_004516708.1	Scaffold1521	15309	TT	GG	1947011741
SNP_P4_162951_15346	NW_004516708.1	Scaffold1521	15346	TT	AA	1947011743
SNP_P4_162952_15440	NW_004516708.1	Scaffold1521	15440	AA	TT	1947011744
SNP_P4_162953_15463	NW_004516708.1	Scaffold1521	15463	AA	TT	1947011746
SNP_P4_162954_15470	NW_004516708.1	Scaffold1521	15470	AA	CC	1947011748
SNP_P4_162955_15481	NW_004516708.1	Scaffold1521	15481	TT	AA	1947011750

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_162957_15560	NW_004516708.1	Scaffold1521	15560	TT	CC	1947011754
SNP_P4_162958_15575	NW_004516708.1	Scaffold1521	15575	TT	CC	1947011756
SNP_P4_162960_15755	NW_004516708.1	Scaffold1521	15755	TT	CC	1947011758
SNP_P4_162962_15947	NW_004516708.1	Scaffold1521	15947	TT	AA	1947011760
SNP_P4_162963_17931	NW_004516708.1	Scaffold1521	17931	GG	TT	1947011762
SNP_P4_162964_17941	NW_004516708.1	Scaffold1521	17941	TT	CC	1947011764
SNP_P4_162966_18009	NW_004516708.1	Scaffold1521	18009	TT	AA	1947011765
SNP_P4_162967_18012	NW_004516708.1	Scaffold1521	18012	AA	GG	1947011767
SNP_P4_162968_19345	NW_004516708.1	Scaffold1521	19345	GG	CC	1947011769
SNP_P4_162969_19363	NW_004516708.1	Scaffold1521	19363	CC	TT	1947011771
SNP_P4_162970_19398	NW_004516708.1	Scaffold1521	19398	TT	GG	1947011773
SNP_P4_162972_19506	NW_004516708.1	Scaffold1521	19506	GG	AA	1947011775
SNP_P4_162973_19525	NW_004516708.1	Scaffold1521	19525	AA	GG	1947011777
SNP_P4_162974_19605	NW_004516708.1	Scaffold1521	19605	CC	AA	1947011779
SNP_P4_162975_19653	NW_004516708.1	Scaffold1521	19653	CC	AA	1947011780
SNP_P4_162976_19670	NW_004516708.1	Scaffold1521	19670	TT	AA	1947011782
SNP_P4_162977_19764	NW_004516708.1	Scaffold1521	19764	CC	TT	1947011784
SNP_P4_162978_19910	NW_004516708.1	Scaffold1521	19910	GG	AA	1947011786
SNP_P4_162980_20082	NW_004516708.1	Scaffold1521	20082	CC	TT	1947011788
SNP_P4_162981_20335	NW_004516708.1	Scaffold1521	20335	GG	CC	1947011790
SNP_P4_162983_21505	NW_004516708.1	Scaffold1521	21505	CC	TT	1947011792
SNP_P4_162984_21510	NW_004516708.1	Scaffold1521	21510	CC	TT	1947011794
SNP_P4_162985_21578	NW_004516708.1	Scaffold1521	21578	TT	AA	1947011796
SNP_P4_162986_21606	NW_004516708.1	Scaffold1521	21606	AA	GG	1947011798
SNP_P4_162987_21689	NW_004516708.1	Scaffold1521	21689	AA	TT	1947011800
SNP_P4_162988_21693	NW_004516708.1	Scaffold1521	21693	TT	AA	1947011802
SNP_P4_162989_23331	NW_004516708.1	Scaffold1521	23331	CC	TT	1947011804
SNP_P4_162990_23355	NW_004516708.1	Scaffold1521	23355	AA	TT	1947011806
SNP_P4_162991_23391	NW_004516708.1	Scaffold1521	23391	CC	TT	1947011808
SNP_P4_162992_23422	NW_004516708.1	Scaffold1521	23422	GG	TT	1947011810
SNP_P4_162993_23817	NW_004516708.1	Scaffold1521	23817	TT	GG	1947011812
SNP_P4_162994_23834	NW_004516708.1	Scaffold1521	23834	AA	GG	1947011814
SNP_P4_162995_25362	NW_004516708.1	Scaffold1521	25362	TT	AA	1947011816
SNP_P4_162996_25845	NW_004516708.1	Scaffold1521	25845	CC	TT	1947011818
SNP_P4_162997_25915	NW_004516708.1	Scaffold1521	25915	AA	GG	1947011820
SNP_P4_162998_26566	NW_004516708.1	Scaffold1521	26566	AA	GG	1947011822
SNP_P4_162999_26705	NW_004516708.1	Scaffold1521	26705	CC	TT	1947011824
SNP_P4_163000_26848	NW_004516708.1	Scaffold1521	26848	TT	AA	1947011826
SNP_P4_163001_26925	NW_004516708.1	Scaffold1521	26925	GG	TT	1947011828
SNP_P4_163003_27261	NW_004516708.1	Scaffold1521	27261	TT	CC	1947011830
SNP_P4_163004_27262	NW_004516708.1	Scaffold1521	27262	TT	AA	1947011832

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_163006_1594	NW_004516709.1	Scaffold1523	1594	AA	TT	1947011836
SNP_P4_163008_4752	NW_004516709.1	Scaffold1523	4752	GG	AA	1947011838
SNP_P4_163009_5067	NW_004516709.1	Scaffold1523	5067	GG	TT	1947011840
SNP_P4_163010_9777	NW_004516709.1	Scaffold1523	9777	GG	TT	1947011842
SNP_P4_163011_9867	NW_004516709.1	Scaffold1523	9867	GG	CC	1947011844
SNP_P4_163012_9965	NW_004516714.1	Scaffold1530	9965	CC	TT	1947011846
SNP_P4_163013_9989	NW_004516714.1	Scaffold1530	9989	TT	CC	1947011848
SNP_P4_163015_10096	NW_004516714.1	Scaffold1530	10096	CC	TT	1947011850
SNP_P4_163016_10165	NW_004516714.1	Scaffold1530	10165	TT	AA	1947011852
SNP_P4_163017_10194	NW_004516714.1	Scaffold1530	10194	TT	CC	1947011854
SNP_P4_163018_10225	NW_004516714.1	Scaffold1530	10225	CC	TT	1947011856
SNP_P4_163019_10299	NW_004516714.1	Scaffold1530	10299	GG	AA	1947011858
SNP_P4_163020_10309	NW_004516714.1	Scaffold1530	10309	CC	TT	1947011860
SNP_P4_163021_10320	NW_004516714.1	Scaffold1530	10320	GG	AA	1947011862
SNP_P4_163022_10432	NW_004516714.1	Scaffold1530	10432	TT	CC	1947011864
SNP_P4_163023_10462	NW_004516714.1	Scaffold1530	10462	TT	CC	1947011866
SNP_P4_163024_10507	NW_004516714.1	Scaffold1530	10507	TT	AA	1947011868
SNP_P4_163025_13129	NW_004516714.1	Scaffold1530	13129	GG	AA	1947011870
SNP_P4_163026_13194	NW_004516714.1	Scaffold1530	13194	TT	CC	1947011872
SNP_P4_163027_13385	NW_004516714.1	Scaffold1530	13385	AA	TT	1947011874
SNP_P4_163028_13386	NW_004516714.1	Scaffold1530	13386	GG	AA	1947011876
SNP_P4_163029_13402	NW_004516714.1	Scaffold1530	13402	GG	AA	1947011878
SNP_P4_163030_13457	NW_004516714.1	Scaffold1530	13457	GG	TT	1947011880
SNP_P4_163031_13460	NW_004516714.1	Scaffold1530	13460	TT	CC	1947011882
SNP_P4_163032_13465	NW_004516714.1	Scaffold1530	13465	CC	AA	1947011884
SNP_P4_163033_13510	NW_004516714.1	Scaffold1530	13510	TT	CC	1947011886
SNP_P4_163034_13548	NW_004516714.1	Scaffold1530	13548	GG	AA	1947011888
SNP_P4_163035_13602	NW_004516714.1	Scaffold1530	13602	CC	TT	1947011890
SNP_P4_163036_13609	NW_004516714.1	Scaffold1530	13609	TT	AA	1947011892
SNP_P4_163037_13628	NW_004516714.1	Scaffold1530	13628	TT	CC	1947011894
SNP_P4_163038_13752	NW_004516714.1	Scaffold1530	13752	TT	CC	1947011896
SNP_P4_163039_13811	NW_004516714.1	Scaffold1530	13811	GG	CC	1947011898
SNP_P4_163040_13983	NW_004516714.1	Scaffold1530	13983	GG	AA	1947011900
SNP_P4_163041_14010	NW_004516714.1	Scaffold1530	14010	TT	GG	1947011902
SNP_P4_163042_14127	NW_004516714.1	Scaffold1530	14127	AA	TT	1947011904
SNP_P4_163044_14488	NW_004516714.1	Scaffold1530	14488	GG	TT	1947011906
SNP_P4_163045_14527	NW_004516714.1	Scaffold1530	14527	AA	GG	1947011908
SNP_P4_163046_14633	NW_004516714.1	Scaffold1530	14633	CC	AA	1947011910
SNP_P4_163047_14647	NW_004516714.1	Scaffold1530	14647	TT	CC	1947011912
SNP_P4_163048_14720	NW_004516714.1	Scaffold1530	14720	TT	GG	1947011914
SNP_P4_163049_14755	NW_004516714.1	Scaffold1530	14755	TT	CC	1947011916

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_163051_14976	NW_004516714.1	Scaffold1530	14976	AA	CC	1947011920
SNP_P4_163052_15043	NW_004516714.1	Scaffold1530	15043	TT	AA	1947011923
SNP_P4_163053_15046	NW_004516714.1	Scaffold1530	15046	GG	AA	1947011925
SNP_P4_163054_15082	NW_004516714.1	Scaffold1530	15082	TT	GG	1947011927
SNP_P4_163055_15089	NW_004516714.1	Scaffold1530	15089	CC	TT	1947011929
SNP_P4_163056_15295	NW_004516714.1	Scaffold1530	15295	AA	CC	1947011931
SNP_P4_163057_15846	NW_004516714.1	Scaffold1530	15846	AA	GG	1947011933
SNP_P4_163059_16172	NW_004516714.1	Scaffold1530	16172	GG	AA	1947011935
SNP_P4_163060_16175	NW_004516714.1	Scaffold1530	16175	AA	TT	1947011937
SNP_P4_163061_16440	NW_004516714.1	Scaffold1530	16440	GG	AA	1947011939
SNP_P4_163062_16460	NW_004516714.1	Scaffold1530	16460	CC	TT	1947011941
SNP_P4_163063_16525	NW_004516714.1	Scaffold1530	16525	GG	AA	1947011944
SNP_P4_163064_16658	NW_004516714.1	Scaffold1530	16658	GG	CC	1947011946
SNP_P4_163066_16998	NW_004516714.1	Scaffold1530	16998	CC	TT	1947011948
SNP_P4_163067_17184	NW_004516714.1	Scaffold1530	17184	AA	GG	1947011950
SNP_P4_163068_17357	NW_004516714.1	Scaffold1530	17357	AA	TT	1947011952
SNP_P4_163069_17359	NW_004516714.1	Scaffold1530	17359	TT	AA	1947011954
SNP_P4_163070_17477	NW_004516714.1	Scaffold1530	17477	GG	AA	1947011957
SNP_P4_163071_17510	NW_004516714.1	Scaffold1530	17510	CC	AA	1947011959
SNP_P4_163072_17710	NW_004516714.1	Scaffold1530	17710	TT	GG	1947011961
SNP_P4_163073_17769	NW_004516714.1	Scaffold1530	17769	GG	CC	1947011963
SNP_P4_163074_17792	NW_004516714.1	Scaffold1530	17792	GG	TT	1947011965
SNP_P4_163075_17814	NW_004516714.1	Scaffold1530	17814	GG	TT	1947011967
SNP_P4_163077_17883	NW_004516714.1	Scaffold1530	17883	CC	TT	1947011969
SNP_P4_163078_17889	NW_004516714.1	Scaffold1530	17889	GG	TT	1947011971
SNP_P4_163079_17919	NW_004516714.1	Scaffold1530	17919	TT	AA	1947011973
SNP_P4_163080_18077	NW_004516714.1	Scaffold1530	18077	GG	AA	1947011975
SNP_P4_163081_18091	NW_004516714.1	Scaffold1530	18091	GG	TT	1947011977
SNP_P4_163082_18671	NW_004516714.1	Scaffold1530	18671	CC	GG	1947011979
SNP_P4_163084_18838	NW_004516714.1	Scaffold1530	18838	GG	AA	1947011981
SNP_P4_163085_18839	NW_004516714.1	Scaffold1530	18839	AA	GG	1947011983
SNP_P4_163086_18918	NW_004516714.1	Scaffold1530	18918	CC	AA	1947011985
SNP_P4_163087_18929	NW_004516714.1	Scaffold1530	18929	GG	TT	1947011987
SNP_P4_163088_18932	NW_004516714.1	Scaffold1530	18932	AA	GG	1947011989
SNP_P4_163089_19158	NW_004516714.1	Scaffold1530	19158	GG	TT	1947011991
SNP_P4_163090_19165	NW_004516714.1	Scaffold1530	19165	GG	AA	1947011993
SNP_P4_163091_19186	NW_004516714.1	Scaffold1530	19186	AA	TT	1947011995
SNP_P4_163092_19420	NW_004516714.1	Scaffold1530	19420	AA	TT	1947011997
SNP_P4_163093_19443	NW_004516714.1	Scaffold1530	19443	CC	GG	1947011999
SNP_P4_163095_19742	NW_004516714.1	Scaffold1530	19742	CC	TT	1947012001
SNP_P4_163097_19957	NW_004516714.1	Scaffold1530	19957	TT	CC	1947012003

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_163098_19958	NW_004516714.1	Scaffold1530	19958	GG	AA	1947012005
SNP_P4_163099_20007	NW_004516714.1	Scaffold1530	20007	CC	GG	1947012007
SNP_P4_163102_20457	NW_004516714.1	Scaffold1530	20457	CC	TT	1947012009
SNP_P4_163103_20653	NW_004516714.1	Scaffold1530	20653	AA	GG	1947012011
SNP_P4_163104_20759	NW_004516714.1	Scaffold1530	20759	GG	CC	1947012013
SNP_P4_163106_20799	NW_004516714.1	Scaffold1530	20799	TT	AA	1947012015
SNP_P4_163107_20817	NW_004516714.1	Scaffold1530	20817	TT	CC	1947012017
SNP_P4_163108_20825	NW_004516714.1	Scaffold1530	20825	GG	AA	1947012019
SNP_P4_163109_20830	NW_004516714.1	Scaffold1530	20830	AA	GG	1947012021
SNP_P4_163110_21032	NW_004516714.1	Scaffold1530	21032	AA	TT	1947012023
SNP_P4_163112_21189	NW_004516714.1	Scaffold1530	21189	AA	GG	1947012025
SNP_P4_163113_21234	NW_004516714.1	Scaffold1530	21234	CC	TT	1947012027
SNP_P4_163114_21256	NW_004516714.1	Scaffold1530	21256	GG	AA	1947012029
SNP_P4_163115_21327	NW_004516714.1	Scaffold1530	21327	GG	AA	1947012031
SNP_P4_163116_21344	NW_004516714.1	Scaffold1530	21344	AA	GG	1947012033
SNP_P4_163117_21399	NW_004516714.1	Scaffold1530	21399	GG	AA	1947012035
SNP_P4_163118_21410	NW_004516714.1	Scaffold1530	21410	AA	GG	1947012036
SNP_P4_163119_21416	NW_004516714.1	Scaffold1530	21416	AA	CC	1947012038
SNP_P4_163120_21420	NW_004516714.1	Scaffold1530	21420	CC	AA	1947012040
SNP_P4_163121_21430	NW_004516714.1	Scaffold1530	21430	AA	CC	1947012042
SNP_P4_163122_21451	NW_004516714.1	Scaffold1530	21451	GG	AA	1947012044
SNP_P4_163123_21510	NW_004516714.1	Scaffold1530	21510	TT	CC	1947012046
SNP_P4_163124_21520	NW_004516714.1	Scaffold1530	21520	AA	GG	1947012048
SNP_P4_163125_21577	NW_004516714.1	Scaffold1530	21577	GG	TT	1947012050
SNP_P4_163126_21582	NW_004516714.1	Scaffold1530	21582	CC	TT	1947012052
SNP_P4_163127_21821	NW_004516714.1	Scaffold1530	21821	TT	CC	1947012054
SNP_P4_163128_21852	NW_004516714.1	Scaffold1530	21852	GG	AA	1947012056
SNP_P4_163129_21976	NW_004516714.1	Scaffold1530	21976	GG	AA	1947012058
SNP_P4_163130_22141	NW_004516714.1	Scaffold1530	22141	AA	GG	1947012060
SNP_P4_163131_22158	NW_004516714.1	Scaffold1530	22158	GG	TT	1947012062
SNP_P4_163132_22214	NW_004516714.1	Scaffold1530	22214	GG	TT	1947012064
SNP_P4_163133_22280	NW_004516714.1	Scaffold1530	22280	TT	CC	1947012066
SNP_P4_163134_22298	NW_004516714.1	Scaffold1530	22298	CC	TT	1947012068
SNP_P4_163135_22300	NW_004516714.1	Scaffold1530	22300	CC	TT	1947012070
SNP_P4_163136_22322	NW_004516714.1	Scaffold1530	22322	TT	CC	1947012072
SNP_P4_163137_22403	NW_004516714.1	Scaffold1530	22403	AA	GG	1947012074
SNP_P4_163138_22465	NW_004516714.1	Scaffold1530	22465	GG	AA	1947012076
SNP_P4_163139_22491	NW_004516714.1	Scaffold1530	22491	AA	GG	1947012078
SNP_P4_163140_22520	NW_004516714.1	Scaffold1530	22520	GG	CC	1947012080
SNP_P4_163141_22563	NW_004516714.1	Scaffold1530	22563	CC	TT	1947012082
SNP_P4_163142_22595	NW_004516714.1	Scaffold1530	22595	AA	GG	1947012084
SNP_P4_163143_23014	NW_004516714.1	Scaffold1530	23014	AA	GG	1947012086

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_163144_23037	NW_004516714.1	Scaffold1530	23037	CC	AA	1947012088
SNP_P4_163147_23369	NW_004516714.1	Scaffold1530	23369	TT	AA	1947012090
SNP_P4_163148_23524	NW_004516714.1	Scaffold1530	23524	GG	CC	1947012092
SNP_P4_163149_23534	NW_004516714.1	Scaffold1530	23534	CC	AA	1947012094
SNP_P4_163150_23612	NW_004516714.1	Scaffold1530	23612	AA	TT	1947012096
SNP_P4_163151_23711	NW_004516714.1	Scaffold1530	23711	AA	GG	1947012099
SNP_P4_163152_23793	NW_004516714.1	Scaffold1530	23793	TT	CC	1947012101
SNP_P4_163154_23866	NW_004516714.1	Scaffold1530	23866	TT	AA	1947012103
SNP_P4_163155_23895	NW_004516714.1	Scaffold1530	23895	CC	TT	1947012105
SNP_P4_163156_23906	NW_004516714.1	Scaffold1530	23906	AA	CC	1947012107
SNP_P4_163157_23918	NW_004516714.1	Scaffold1530	23918	CC	AA	1947012109
SNP_P4_163158_24066	NW_004516714.1	Scaffold1530	24066	TT	CC	1947012111
SNP_P4_163159_24232	NW_004516714.1	Scaffold1530	24232	CC	AA	1947012113
SNP_P4_163160_24256	NW_004516714.1	Scaffold1530	24256	TT	GG	1947012115
SNP_P4_163161_24313	NW_004516714.1	Scaffold1530	24313	CC	GG	1947012117
SNP_P4_163162_24427	NW_004516714.1	Scaffold1530	24427	TT	CC	1947012119
SNP_P4_163164_24460	NW_004516714.1	Scaffold1530	24460	GG	AA	1947012121
SNP_P4_163165_24470	NW_004516714.1	Scaffold1530	24470	CC	TT	1947012123
SNP_P4_163166_24528	NW_004516714.1	Scaffold1530	24528	AA	GG	1947012125
SNP_P4_163167_24604	NW_004516714.1	Scaffold1530	24604	AA	GG	1947012127
SNP_P4_163168_24621	NW_004516714.1	Scaffold1530	24621	AA	GG	1947012129
SNP_P4_163169_24638	NW_004516714.1	Scaffold1530	24638	TT	CC	1947012131
SNP_P4_163170_24686	NW_004516714.1	Scaffold1530	24686	AA	GG	1947012133
SNP_P4_163172_24718	NW_004516714.1	Scaffold1530	24718	AA	TT	1947012135
SNP_P4_163173_24741	NW_004516714.1	Scaffold1530	24741	TT	AA	1947012137
SNP_P4_163174_24781	NW_004516714.1	Scaffold1530	24781	CC	TT	1947012139
SNP_P4_163175_25059	NW_004516714.1	Scaffold1530	25059	TT	CC	1947012141
SNP_P4_163176_25074	NW_004516714.1	Scaffold1530	25074	GG	AA	1947012143
SNP_P4_163177_25097	NW_004516714.1	Scaffold1530	25097	CC	AA	1947012145
SNP_P4_163178_25098	NW_004516714.1	Scaffold1530	25098	GG	AA	1947012147
SNP_P4_163179_25101	NW_004516714.1	Scaffold1530	25101	TT	GG	1947012149
SNP_P4_163180_25111	NW_004516714.1	Scaffold1530	25111	GG	CC	1947012151
SNP_P4_163181_25143	NW_004516714.1	Scaffold1530	25143	CC	TT	1947012153
SNP_P4_163182_25144	NW_004516714.1	Scaffold1530	25144	TT	CC	1947012155
SNP_P4_163183_25160	NW_004516714.1	Scaffold1530	25160	TT	CC	1947012157
SNP_P4_163184_25223	NW_004516714.1	Scaffold1530	25223	TT	AA	1947012159
SNP_P4_163185_25224	NW_004516714.1	Scaffold1530	25224	TT	AA	1947012161
SNP_P4_163186_25399	NW_004516714.1	Scaffold1530	25399	TT	CC	1947012164
SNP_P4_163187_25441	NW_004516714.1	Scaffold1530	25441	TT	AA	1947012166
SNP_P4_163189_25535	NW_004516714.1	Scaffold1530	25535	GG	TT	1947012168
SNP_P4_163190_25629	NW_004516714.1	Scaffold1530	25629	CC	GG	1947012170
SNP_P4_163191_25706	NW_004516714.1	Scaffold1530	25706	CC	GG	1947012172

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_163192_25823	NW_004516714.1	Scaffold1530	25823	GG	AA	1947012174
SNP_P4_163194_25908	NW_004516714.1	Scaffold1530	25908	AA	GG	1947012176
SNP_P4_163195_25987	NW_004516714.1	Scaffold1530	25987	AA	GG	1947012178
SNP_P4_163196_26013	NW_004516714.1	Scaffold1530	26013	TT	CC	1947012180
SNP_P4_163197_26023	NW_004516714.1	Scaffold1530	26023	CC	TT	1947012182
SNP_P4_163198_26147	NW_004516714.1	Scaffold1530	26147	GG	TT	1947012184
SNP_P4_163199_26244	NW_004516714.1	Scaffold1530	26244	AA	TT	1947012186
SNP_P4_163200_26262	NW_004516714.1	Scaffold1530	26262	AA	TT	1947012189
SNP_P4_163201_26270	NW_004516714.1	Scaffold1530	26270	GG	AA	1947012191
SNP_P4_163202_26363	NW_004516714.1	Scaffold1530	26363	CC	TT	1947012193
SNP_P4_163204_26417	NW_004516714.1	Scaffold1530	26417	CC	AA	1947012195
SNP_P4_163205_26432	NW_004516714.1	Scaffold1530	26432	TT	AA	1947012197
SNP_P4_163206_26462	NW_004516714.1	Scaffold1530	26462	TT	CC	1947012199
SNP_P4_163207_26542	NW_004516714.1	Scaffold1530	26542	TT	AA	1947012201
SNP_P4_163208_26557	NW_004516714.1	Scaffold1530	26557	AA	GG	1947012203
SNP_P4_163209_26603	NW_004516714.1	Scaffold1530	26603	AA	TT	1947012205
SNP_P4_163211_26782	NW_004516714.1	Scaffold1530	26782	AA	GG	1947012207
SNP_P4_163213_27016	NW_004516714.1	Scaffold1530	27016	AA	GG	1947012209
SNP_P4_163214_27025	NW_004516714.1	Scaffold1530	27025	TT	CC	1947012211
SNP_P4_163215_27031	NW_004516714.1	Scaffold1530	27031	GG	AA	1947012213
SNP_P4_163217_27115	NW_004516714.1	Scaffold1530	27115	TT	CC	1947012215
SNP_P4_163220_27386	NW_004516714.1	Scaffold1530	27386	GG	AA	1947012217
SNP_P4_163221_27476	NW_004516714.1	Scaffold1530	27476	TT	AA	1947012219
SNP_P4_163222_27480	NW_004516714.1	Scaffold1530	27480	AA	TT	1947012221
SNP_P4_163223_27582	NW_004516714.1	Scaffold1530	27582	AA	GG	1947012223
SNP_P4_163224_27592	NW_004516714.1	Scaffold1530	27592	AA	GG	1947012225
SNP_P4_163225_27737	NW_004516714.1	Scaffold1530	27737	TT	CC	1947012227
SNP_P4_163227_27835	NW_004516714.1	Scaffold1530	27835	AA	GG	1947012229
SNP_P4_163228_27873	NW_004516714.1	Scaffold1530	27873	GG	TT	1947012231
SNP_P4_163229_27909	NW_004516714.1	Scaffold1530	27909	AA	TT	1947012233
SNP_P4_163232_28052	NW_004516714.1	Scaffold1530	28052	GG	AA	1947012235
SNP_P4_163233_28165	NW_004516714.1	Scaffold1530	28165	GG	AA	1947012237
SNP_P4_163234_28179	NW_004516714.1	Scaffold1530	28179	AA	TT	1947012239
SNP_P4_163235_28254	NW_004516714.1	Scaffold1530	28254	GG	AA	1947012241
SNP_P4_163236_28275	NW_004516714.1	Scaffold1530	28275	TT	CC	1947012244
SNP_P4_163237_28342	NW_004516714.1	Scaffold1530	28342	AA	GG	1947012246
SNP_P4_163239_28454	NW_004516714.1	Scaffold1530	28454	AA	TT	1947012248
SNP_P4_163240_28599	NW_004516714.1	Scaffold1530	28599	CC	AA	1947012250
SNP_P4_163241_28621	NW_004516714.1	Scaffold1530	28621	GG	AA	1947012252
SNP_P4_163242_28626	NW_004516714.1	Scaffold1530	28626	CC	TT	1947012254
SNP_P4_163243_28635	NW_004516714.1	Scaffold1530	28635	CC	GG	1947012256
SNP_P4_163244_28652	NW_004516714.1	Scaffold1530	28652	TT	GG	1947012258

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_163245_28671	NW_004516714.1	Scaffold1530	28671	CC	TT	1947012260
SNP_P4_163246_28710	NW_004516714.1	Scaffold1530	28710	TT	CC	1947012262
SNP_P4_163247_477	NW_004516715.1	Scaffold1531	477	CC	AA	1947012264
SNP_P4_163248_517	NW_004516715.1	Scaffold1531	517	CC	TT	1947012266
SNP_P4_163249_656	NW_004516715.1	Scaffold1531	656	CC	TT	1947012268
SNP_P4_163250_695	NW_004516715.1	Scaffold1531	695	AA	GG	1947012270
SNP_P4_163251_702	NW_004516715.1	Scaffold1531	702	TT	AA	1947012272
SNP_P4_163252_3739	NW_004516715.1	Scaffold1531	3739	TT	AA	1947012274
SNP_P4_163253_3785	NW_004516715.1	Scaffold1531	3785	GG	AA	1947012276
SNP_P4_163254_3898	NW_004516715.1	Scaffold1531	3898	CC	TT	1947012278
SNP_P4_163255_3984	NW_004516715.1	Scaffold1531	3984	CC	GG	1947012280
SNP_P4_163256_4236	NW_004516715.1	Scaffold1531	4236	GG	TT	1947012282
SNP_P4_163257_4358	NW_004516715.1	Scaffold1531	4358	AA	GG	1947012284
SNP_P4_163258_10046	NW_004516715.1	Scaffold1531	10046	AA	TT	1947012286
SNP_P4_163259_12861	NW_004516715.1	Scaffold1531	12861	TT	AA	1947012288
SNP_P4_163260_12862	NW_004516715.1	Scaffold1531	12862	CC	TT	1947012290
SNP_P4_163261_19825	NW_004516715.1	Scaffold1531	19825	AA	GG	1947012292
SNP_P4_163262_20987	NW_004516715.1	Scaffold1531	20987	AA	CC	1947012294
SNP_P4_163263_21054	NW_004516715.1	Scaffold1531	21054	AA	CC	1947012296
SNP_P4_163264_21258	NW_004516715.1	Scaffold1531	21258	TT	CC	1947012298
SNP_P4_163265_21706	NW_004516715.1	Scaffold1531	21706	GG	CC	1947012300
SNP_P4_163266_21795	NW_004516715.1	Scaffold1531	21795	AA	TT	1947012302
SNP_P4_163267_21993	NW_004516715.1	Scaffold1531	21993	AA	CC	1947012304
SNP_P4_163268_22282	NW_004516715.1	Scaffold1531	22282	CC	TT	1947012306
SNP_P4_163269_22349	NW_004516715.1	Scaffold1531	22349	CC	TT	1947012308
SNP_P4_163270_22637	NW_004516715.1	Scaffold1531	22637	AA	GG	1947012310
SNP_P4_163271_22684	NW_004516715.1	Scaffold1531	22684	GG	AA	1947012312
SNP_P4_163273_23946	NW_004516715.1	Scaffold1531	23946	CC	TT	1947012314
SNP_P4_163274_23950	NW_004516715.1	Scaffold1531	23950	AA	CC	1947012316
SNP_P4_163275_23951	NW_004516715.1	Scaffold1531	23951	TT	CC	1947012318
SNP_P4_163276_24116	NW_004516715.1	Scaffold1531	24116	CC	TT	1947012321
SNP_P4_163277_24218	NW_004516715.1	Scaffold1531	24218	AA	CC	1947012323
SNP_P4_163278_24251	NW_004516715.1	Scaffold1531	24251	AA	GG	1947012325
SNP_P4_163279_24281	NW_004516715.1	Scaffold1531	24281	AA	GG	1947012327
SNP_P4_163280_24320	NW_004516715.1	Scaffold1531	24320	TT	GG	1947012329
SNP_P4_163281_24341	NW_004516715.1	Scaffold1531	24341	TT	CC	1947012331
SNP_P4_163282_24349	NW_004516715.1	Scaffold1531	24349	AA	TT	1947012333
SNP_P4_163283_24363	NW_004516715.1	Scaffold1531	24363	GG	TT	1947012335
SNP_P4_163284_24370	NW_004516715.1	Scaffold1531	24370	CC	TT	1947012337
SNP_P4_163285_24525	NW_004516715.1	Scaffold1531	24525	GG	CC	1947012339
SNP_P4_163286_24529	NW_004516715.1	Scaffold1531	24529	CC	TT	1947012341
SNP_P4_163287_24546	NW_004516715.1	Scaffold1531	24546	CC	AA	1947012343

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_163288_24547	NW_004516715.1	Scaffold1531	24547	AA	GG	1947012345
SNP_P4_163289_24858	NW_004516715.1	Scaffold1531	24858	CC	AA	1947012347
SNP_P4_163290_24868	NW_004516715.1	Scaffold1531	24868	AA	CC	1947012349
SNP_P4_163291_24875	NW_004516715.1	Scaffold1531	24875	GG	TT	1947012351
SNP_P4_163293_24941	NW_004516715.1	Scaffold1531	24941	GG	AA	1947012353
SNP_P4_163295_25698	NW_004516715.1	Scaffold1531	25698	TT	AA	1947012355
SNP_P4_163296_25925	NW_004516715.1	Scaffold1531	25925	AA	GG	1947012357
SNP_P4_163297_25931	NW_004516715.1	Scaffold1531	25931	TT	CC	1947012359
SNP_P4_163298_25945	NW_004516715.1	Scaffold1531	25945	CC	GG	1947012361
SNP_P4_163299_26082	NW_004516715.1	Scaffold1531	26082	CC	TT	1947012363
SNP_P4_163300_26084	NW_004516715.1	Scaffold1531	26084	TT	AA	1947012365
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SNP_P4_163304_26550	NW_004516715.1	Scaffold1531	26550	CC	AA	1947012373
SNP_P4_163306_27820	NW_004516715.1	Scaffold1531	27820	AA	GG	1947012375
SNP_P4_163307_27856	NW_004516715.1	Scaffold1531	27856	TT	GG	1947012377
SNP_P4_163308_27881	NW_004516715.1	Scaffold1531	27881	AA	GG	1947012379
SNP_P4_163309_27884	NW_004516715.1	Scaffold1531	27884	AA	TT	1947012381
SNP_P4_163310_27941	NW_004516715.1	Scaffold1531	27941	TT	CC	1947012383
SNP_P4_163311_27959	NW_004516715.1	Scaffold1531	27959	CC	GG	1947012385
SNP_P4_163312_28001	NW_004516715.1	Scaffold1531	28001	TT	AA	1947012387
SNP_P4_163313_28008	NW_004516715.1	Scaffold1531	28008	GG	AA	1947012389
SNP_P4_163314_28034	NW_004516715.1	Scaffold1531	28034	TT	CC	1947012391
SNP_P4_163315_28138	NW_004516715.1	Scaffold1531	28138	TT	AA	1947012393
SNP_P4_163316_28145	NW_004516715.1	Scaffold1531	28145	GG	AA	1947012395
SNP_P4_163317_28175	NW_004516715.1	Scaffold1531	28175	TT	GG	1947012397
SNP_P4_163318_28187	NW_004516715.1	Scaffold1531	28187	CC	AA	1947012399
SNP_P4_163319_28345	NW_004516715.1	Scaffold1531	28345	AA	GG	1947012401
SNP_P4_163320_28346	NW_004516715.1	Scaffold1531	28346	GG	AA	1947012403
SNP_P4_163321_28363	NW_004516715.1	Scaffold1531	28363	TT	GG	1947012405
SNP_P4_163322_28435	NW_004516715.1	Scaffold1531	28435	CC	AA	1947012407
SNP_P4_163323_28443	NW_004516715.1	Scaffold1531	28443	CC	AA	1947012409
SNP_P4_163324_28489	NW_004516715.1	Scaffold1531	28489	GG	TT	1947012411
SNP_P4_163325_28494	NW_004516715.1	Scaffold1531	28494	AA	GG	1947012413
SNP_P4_163326_28528	NW_004516715.1	Scaffold1531	28528	TT	CC	1947012415
SNP_P4_163327_28531	NW_004516715.1	Scaffold1531	28531	GG	AA	1947012417
SNP_P4_163328_28564	NW_004516715.1	Scaffold1531	28564	TT	AA	1947012418
SNP_P4_163329_28579	NW_004516715.1	Scaffold1531	28579	AA	CC	1947012420
SNP_P4_163330_28644	NW_004516715.1	Scaffold1531	28644	TT	GG	1947012422
SNP_P4_163332_28795	NW_004516715.1	Scaffold1531	28795	TT	CC	1947012424
SNP_P4_163333_28908	NW_004516715.1	Scaffold1531	28908	AA	GG	1947012426

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_163334_28925	NW_004516715.1	Scaffold1531	28925	GG	CC	1947012428
SNP_P4_163335_28972	NW_004516715.1	Scaffold1531	28972	GG	AA	1947012430
SNP_P4_163336_29010	NW_004516715.1	Scaffold1531	29010	CC	TT	1947012432
SNP_P4_163337_29011	NW_004516715.1	Scaffold1531	29011	GG	AA	1947012434
SNP_P4_163338_29064	NW_004516715.1	Scaffold1531	29064	TT	CC	1947012436
SNP_P4_163339_29106	NW_004516715.1	Scaffold1531	29106	GG	AA	1947012438
SNP_P4_163340_29133	NW_004516715.1	Scaffold1531	29133	CC	TT	1947012440
SNP_P4_163341_29158	NW_004516715.1	Scaffold1531	29158	TT	AA	1947012442
SNP_P4_163342_29214	NW_004516715.1	Scaffold1531	29214	GG	TT	1947012444
SNP_P4_163343_29221	NW_004516715.1	Scaffold1531	29221	TT	AA	1947012446
SNP_P4_163344_29265	NW_004516715.1	Scaffold1531	29265	TT	AA	1947012448
SNP_P4_163345_29276	NW_004516715.1	Scaffold1531	29276	GG	AA	1947012450
SNP_P4_163346_29327	NW_004516715.1	Scaffold1531	29327	TT	GG	1947012452
SNP_P4_163347_29344	NW_004516715.1	Scaffold1531	29344	GG	CC	1947012454
SNP_P4_163348_29360	NW_004516715.1	Scaffold1531	29360	TT	AA	1947012456
SNP_P4_163349_29362	NW_004516715.1	Scaffold1531	29362	CC	GG	1947012458
SNP_P4_163350_29403	NW_004516715.1	Scaffold1531	29403	GG	CC	1947012460
SNP_P4_163351_29421	NW_004516715.1	Scaffold1531	29421	GG	CC	1947012462
SNP_P4_163353_29460	NW_004516715.1	Scaffold1531	29460	GG	TT	1947012464
SNP_P4_163354_29509	NW_004516715.1	Scaffold1531	29509	AA	TT	1947012466
SNP_P4_163355_29575	NW_004516715.1	Scaffold1531	29575	TT	AA	1947012468
SNP_P4_163356_29605	NW_004516715.1	Scaffold1531	29605	CC	TT	1947012469
SNP_P4_163357_29606	NW_004516715.1	Scaffold1531	29606	AA	GG	1947012471
SNP_P4_163358_29634	NW_004516715.1	Scaffold1531	29634	CC	TT	1947012473
SNP_P4_163359_30003	NW_004516715.1	Scaffold1531	30003	TT	AA	1947012475
SNP_P4_163360_30733	NW_004516715.1	Scaffold1531	30733	AA	CC	1947012477
SNP_P4_163361_30761	NW_004516715.1	Scaffold1531	30761	CC	TT	1947012479
SNP_P4_163362_34615	NW_004516715.1	Scaffold1531	34615	AA	TT	1947012481
SNP_P4_163363_34674	NW_004516715.1	Scaffold1531	34674	CC	AA	1947012483
SNP_P4_163364_34849	NW_004516715.1	Scaffold1531	34849	TT	AA	1947012485
SNP_P4_163365_35117	NW_004516715.1	Scaffold1531	35117	TT	CC	1947012487
SNP_P4_163366_35143	NW_004516715.1	Scaffold1531	35143	TT	GG	1947012489
SNP_P4_163367_35192	NW_004516715.1	Scaffold1531	35192	CC	TT	1947012490
SNP_P4_163368_35602	NW_004516715.1	Scaffold1531	35602	AA	CC	1947012492
SNP_P4_163369_35650	NW_004516715.1	Scaffold1531	35650	GG	TT	1947012494
SNP_P4_163370_35654	NW_004516715.1	Scaffold1531	35654	CC	TT	1947012496
SNP_P4_163371_35684	NW_004516715.1	Scaffold1531	35684	GG	AA	1947012498
SNP_P4_163372_35704	NW_004516715.1	Scaffold1531	35704	GG	AA	1947012500
SNP_P4_163373_35733	NW_004516715.1	Scaffold1531	35733	AA	GG	1947012502
SNP_P4_163374_35766	NW_004516715.1	Scaffold1531	35766	TT	CC	1947012504
SNP_P4_163375_35773	NW_004516715.1	Scaffold1531	35773	CC	TT	1947012506
SNP_P4_163376_35817	NW_004516715.1	Scaffold1531	35817	TT	CC	1947012508

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_163378_35838	NW_004516715.1	Scaffold1531	35838	CC	GG	1947012511
SNP_P4_163379_35879	NW_004516715.1	Scaffold1531	35879	TT	CC	1947012513
SNP_P4_163380_36028	NW_004516715.1	Scaffold1531	36028	CC	GG	1947012515
SNP_P4_163381_36119	NW_004516715.1	Scaffold1531	36119	CC	GG	1947012517
SNP_P4_163382_36129	NW_004516715.1	Scaffold1531	36129	CC	AA	1947012519
SNP_P4_163383_36269	NW_004516715.1	Scaffold1531	36269	AA	TT	1947012521
SNP_P4_163384_36289	NW_004516715.1	Scaffold1531	36289	GG	TT	1947012523
SNP_P4_163385_36292	NW_004516715.1	Scaffold1531	36292	TT	AA	1947012525
SNP_P4_163386_36318	NW_004516715.1	Scaffold1531	36318	TT	AA	1947012527
SNP_P4_163387_36502	NW_004516715.1	Scaffold1531	36502	AA	GG	1947012529
SNP_P4_163388_36531	NW_004516715.1	Scaffold1531	36531	CC	AA	1947012531
SNP_P4_163389_36572	NW_004516715.1	Scaffold1531	36572	TT	CC	1947012533
SNP_P4_163390_36590	NW_004516715.1	Scaffold1531	36590	AA	GG	1947012535
SNP_P4_163391_36591	NW_004516715.1	Scaffold1531	36591	GG	TT	1947012537
SNP_P4_163392_36738	NW_004516715.1	Scaffold1531	36738	CC	GG	1947012539
SNP_P4_163393_36824	NW_004516715.1	Scaffold1531	36824	GG	TT	1947012541
SNP_P4_163394_36873	NW_004516715.1	Scaffold1531	36873	AA	TT	1947012542
SNP_P4_163395_36897	NW_004516715.1	Scaffold1531	36897	CC	AA	1947012544
SNP_P4_163396_37166	NW_004516715.1	Scaffold1531	37166	CC	TT	1947012546
SNP_P4_163397_37778	NW_004516715.1	Scaffold1531	37778	CC	TT	1947012548
SNP_P4_163398_37814	NW_004516715.1	Scaffold1531	37814	TT	CC	1947012550
SNP_P4_163399_37909	NW_004516715.1	Scaffold1531	37909	TT	GG	1947012552
SNP_P4_163400_37964	NW_004516715.1	Scaffold1531	37964	CC	TT	1947012554
SNP_P4_163401_37978	NW_004516715.1	Scaffold1531	37978	CC	TT	1947012556
SNP_P4_163402_38017	NW_004516715.1	Scaffold1531	38017	TT	CC	1947012558
SNP_P4_163403_38044	NW_004516715.1	Scaffold1531	38044	TT	CC	1947012560
SNP_P4_163404_38156	NW_004516715.1	Scaffold1531	38156	AA	TT	1947012562
SNP_P4_163405_38212	NW_004516715.1	Scaffold1531	38212	GG	AA	1947012564
SNP_P4_163406_38239	NW_004516715.1	Scaffold1531	38239	TT	CC	1947012566
SNP_P4_163407_38253	NW_004516715.1	Scaffold1531	38253	CC	TT	1947012568
SNP_P4_163408_38258	NW_004516715.1	Scaffold1531	38258	AA	TT	1947012570
SNP_P4_163409_38413	NW_004516715.1	Scaffold1531	38413	GG	AA	1947012572
SNP_P4_163410_39043	NW_004516715.1	Scaffold1531	39043	TT	CC	1947012574
SNP_P4_163411_39377	NW_004516715.1	Scaffold1531	39377	CC	AA	1947012576
SNP_P4_163412_39616	NW_004516715.1	Scaffold1531	39616	AA	TT	1947012578
SNP_P4_163413_39665	NW_004516715.1	Scaffold1531	39665	TT	AA	1947012580
SNP_P4_163414_40573	NW_004516715.1	Scaffold1531	40573	AA	GG	1947012582
SNP_P4_163415_40587	NW_004516715.1	Scaffold1531	40587	TT	CC	1947012584
SNP_P4_163416_6435	NW_004516716.1	Scaffold1532	6435	CC	TT	1947012586
SNP_P4_163417_7992	NW_004516716.1	Scaffold1532	7992	TT	AA	1947012588
SNP_P4_163418_8308	NW_004516716.1	Scaffold1532	8308	AA	GG	1947012590

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_163420_10280	NW_004516716.1	Scaffold1532	10280	CC	TT	1947012593
SNP_P4_163421_10288	NW_004516716.1	Scaffold1532	10288	GG	AA	1947012595
SNP_P4_163422_10348	NW_004516716.1	Scaffold1532	10348	AA	GG	1947012597
SNP_P4_163424_10646	NW_004516716.1	Scaffold1532	10646	AA	TT	1947012599
SNP_P4_163425_10684	NW_004516716.1	Scaffold1532	10684	CC	TT	1947012601
SNP_P4_163426_10685	NW_004516716.1	Scaffold1532	10685	GG	CC	1947012603
SNP_P4_163427_10689	NW_004516716.1	Scaffold1532	10689	CC	TT	1947012605
SNP_P4_163428_10703	NW_004516716.1	Scaffold1532	10703	TT	AA	1947012607
SNP_P4_163429_10823	NW_004516716.1	Scaffold1532	10823	AA	GG	1947012609
SNP_P4_163430_10849	NW_004516716.1	Scaffold1532	10849	CC	TT	1947012611
SNP_P4_163431_15772	NW_004516716.1	Scaffold1532	15772	AA	GG	1947012613
SNP_P4_163432_17484	NW_004516716.1	Scaffold1532	17484	CC	TT	1947012615
SNP_P4_163433_18526	NW_004516716.1	Scaffold1532	18526	GG	AA	1947012617
SNP_P4_163434_22090	NW_004516716.1	Scaffold1532	22090	AA	GG	1947012618
SNP_P4_163435_22113	NW_004516716.1	Scaffold1532	22113	GG	AA	1947012620
SNP_P4_163436_22154	NW_004516716.1	Scaffold1532	22154	AA	GG	1947012622
SNP_P4_163437_22161	NW_004516716.1	Scaffold1532	22161	TT	CC	1947012624
SNP_P4_163438_22176	NW_004516716.1	Scaffold1532	22176	TT	CC	1947012626
SNP_P4_163439_22182	NW_004516716.1	Scaffold1532	22182	GG	AA	1947012628
SNP_P4_163440_22188	NW_004516716.1	Scaffold1532	22188	AA	GG	1947012630
SNP_P4_163441_22190	NW_004516716.1	Scaffold1532	22190	TT	CC	1947012632
SNP_P4_163442_22197	NW_004516716.1	Scaffold1532	22197	AA	GG	1947012634
SNP_P4_163443_22209	NW_004516716.1	Scaffold1532	22209	TT	CC	1947012636
SNP_P4_163444_22606	NW_004516716.1	Scaffold1532	22606	AA	GG	1947012638
SNP_P4_163445_24826	NW_004516716.1	Scaffold1532	24826	AA	CC	1947012640
SNP_P4_163446_25104	NW_004516716.1	Scaffold1532	25104	GG	CC	1947012642
SNP_P4_163447_25123	NW_004516716.1	Scaffold1532	25123	TT	CC	1947012644
SNP_P4_163448_25161	NW_004516716.1	Scaffold1532	25161	CC	TT	1947012646
SNP_P4_163449_25182	NW_004516716.1	Scaffold1532	25182	GG	TT	1947012648
SNP_P4_163450_25236	NW_004516716.1	Scaffold1532	25236	TT	CC	1947012650
SNP_P4_163451_25248	NW_004516716.1	Scaffold1532	25248	GG	TT	1947012651
SNP_P4_163452_25270	NW_004516716.1	Scaffold1532	25270	GG	AA	1947012653
SNP_P4_163453_25298	NW_004516716.1	Scaffold1532	25298	TT	CC	1947012655
SNP_P4_163454_25299	NW_004516716.1	Scaffold1532	25299	TT	CC	1947012657
SNP_P4_163455_25348	NW_004516716.1	Scaffold1532	25348	TT	AA	1947012659
SNP_P4_163456_25466	NW_004516716.1	Scaffold1532	25466	CC	TT	1947012661
SNP_P4_163457_26069	NW_004516716.1	Scaffold1532	26069	AA	GG	1947012663
SNP_P4_163458_26119	NW_004516716.1	Scaffold1532	26119	AA	TT	1947012665
SNP_P4_163459_26127	NW_004516716.1	Scaffold1532	26127	TT	AA	1947012667
SNP_P4_163460_26208	NW_004516716.1	Scaffold1532	26208	CC	GG	1947012669
SNP_P4_163461_29046	NW_004516716.1	Scaffold1532	29046	GG	CC	1947012670

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_163463_29532	NW_004516716.1	Scaffold1532	29532	TT	CC	1947012674
SNP_P4_163464_35304	NW_004516716.1	Scaffold1532	35304	CC	TT	1947012676
SNP_P4_163465_44869	NW_004516716.1	Scaffold1532	44869	TT	CC	1947012678
SNP_P4_163466_45468	NW_004516716.1	Scaffold1532	45468	CC	GG	1947012680
SNP_P4_163467_57881	NW_004516716.1	Scaffold1532	57881	GG	TT	1947012682
SNP_P4_163468_60967	NW_004516716.1	Scaffold1532	60967	CC	TT	1947012684
SNP_P4_163470_82048	NW_004516716.1	Scaffold1532	82048	CC	TT	1947012686
SNP_P4_163471_82069	NW_004516716.1	Scaffold1532	82069	AA	CC	1947012688
SNP_P4_163472_82073	NW_004516716.1	Scaffold1532	82073	TT	GG	1947012690
SNP_P4_163473_82079	NW_004516716.1	Scaffold1532	82079	TT	GG	1947012692
SNP_P4_163474_82080	NW_004516716.1	Scaffold1532	82080	TT	GG	1947012694
SNP_P4_163475_82083	NW_004516716.1	Scaffold1532	82083	GG	AA	1947012696
SNP_P4_163476_82104	NW_004516716.1	Scaffold1532	82104	GG	AA	1947012698
SNP_P4_163477_82108	NW_004516716.1	Scaffold1532	82108	TT	GG	1947012700
SNP_P4_163478_6734	NW_004516717.1	Scaffold1533	6734	AA	GG	1947012702
SNP_P4_163479_7079	NW_004516717.1	Scaffold1533	7079	CC	TT	1947012704
SNP_P4_163480_7096	NW_004516717.1	Scaffold1533	7096	TT	CC	1947012706
SNP_P4_163481_7302	NW_004516717.1	Scaffold1533	7302	CC	TT	1947012708
SNP_P4_163482_10866	NW_004516717.1	Scaffold1533	10866	AA	GG	1947012710
SNP_P4_163483_10882	NW_004516717.1	Scaffold1533	10882	GG	AA	1947012712
SNP_P4_163484_11123	NW_004516717.1	Scaffold1533	11123	TT	CC	1947012714
SNP_P4_163485_11378	NW_004516717.1	Scaffold1533	11378	CC	TT	1947012716
SNP_P4_163486_11385	NW_004516717.1	Scaffold1533	11385	AA	CC	1947012718
SNP_P4_163487_11507	NW_004516717.1	Scaffold1533	11507	CC	TT	1947012720
SNP_P4_163488_11508	NW_004516717.1	Scaffold1533	11508	AA	GG	1947012722
SNP_P4_163489_11571	NW_004516717.1	Scaffold1533	11571	AA	GG	1947012724
SNP_P4_163490_14311	NW_004516717.1	Scaffold1533	14311	GG	CC	1947012726
SNP_P4_163491_14324	NW_004516717.1	Scaffold1533	14324	AA	GG	1947012728
SNP_P4_163492_14369	NW_004516717.1	Scaffold1533	14369	TT	GG	1947012730
SNP_P4_163493_14392	NW_004516717.1	Scaffold1533	14392	TT	GG	1947012732
SNP_P4_163494_14401	NW_004516717.1	Scaffold1533	14401	CC	TT	1947012733
SNP_P4_163495_14406	NW_004516717.1	Scaffold1533	14406	AA	GG	1947012734
SNP_P4_163496_14484	NW_004516717.1	Scaffold1533	14484	CC	TT	1947012735
SNP_P4_163497_27189	NW_004516717.1	Scaffold1533	27189	TT	CC	1947012736
SNP_P4_163498_27208	NW_004516717.1	Scaffold1533	27208	CC	TT	1947012737
SNP_P4_163499_28248	NW_004516717.1	Scaffold1533	28248	CC	TT	1947012738
SNP_P4_163500_28250	NW_004516717.1	Scaffold1533	28250	GG	AA	1947012739
SNP_P4_163501_28269	NW_004516717.1	Scaffold1533	28269	AA	TT	1947012740
SNP_P4_163502_36771	NW_004516717.1	Scaffold1533	36771	AA	CC	1947012741
SNP_P4_163503_36791	NW_004516717.1	Scaffold1533	36791	CC	AA	1947012742
SNP_P4_163505_39665	NW_004516717.1	Scaffold1533	39665	CC	TT	1947012743

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_163507_63783	NW_004516717.1	Scaffold1533	63783	AA	GG	1947012745
SNP_P4_163508_63818	NW_004516717.1	Scaffold1533	63818	GG	AA	1947012746
SNP_P4_163509_64132	NW_004516717.1	Scaffold1533	64132	GG	AA	1947012747
SNP_P4_163510_65263	NW_004516717.1	Scaffold1533	65263	GG	TT	1947012748
SNP_P4_163511_65430	NW_004516717.1	Scaffold1533	65430	AA	GG	1947012749
SNP_P4_163512_73950	NW_004516717.1	Scaffold1533	73950	TT	CC	1947012750
SNP_P4_163513_74029	NW_004516717.1	Scaffold1533	74029	TT	CC	1947012751
SNP_P4_163514_84594	NW_004516717.1	Scaffold1533	84594	GG	AA	1947012752
SNP_P4_163515_89040	NW_004516717.1	Scaffold1533	89040	AA	TT	1947012753
SNP_P4_163516_89041	NW_004516717.1	Scaffold1533	89041	AA	GG	1947012754
SNP_P4_163517_89084	NW_004516717.1	Scaffold1533	89084	CC	AA	1947012755
SNP_P4_163518_89089	NW_004516717.1	Scaffold1533	89089	TT	GG	1947012756
SNP_P4_163519_89317	NW_004516717.1	Scaffold1533	89317	AA	GG	1947012757
SNP_P4_163520_89329	NW_004516717.1	Scaffold1533	89329	GG	AA	1947012758
SNP_P4_163521_89332	NW_004516717.1	Scaffold1533	89332	CC	TT	1947012759
SNP_P4_163522_89343	NW_004516717.1	Scaffold1533	89343	CC	AA	1947012760
SNP_P4_163523_104706	NW_004516717.1	Scaffold1533	104706	CC	TT	1947012761
SNP_P4_163524_104713	NW_004516717.1	Scaffold1533	104713	TT	CC	1947012763
SNP_P4_163525_104717	NW_004516717.1	Scaffold1533	104717	TT	CC	1947012765
SNP_P4_163526_104718	NW_004516717.1	Scaffold1533	104718	TT	GG	1947012766
SNP_P4_163527_104719	NW_004516717.1	Scaffold1533	104719	CC	TT	1947012768
SNP_P4_163528_104737	NW_004516717.1	Scaffold1533	104737	AA	CC	1947012770
SNP_P4_163529_105973	NW_004516717.1	Scaffold1533	105973	TT	CC	1947012772
SNP_P4_163530_105978	NW_004516717.1	Scaffold1533	105978	GG	AA	1947012774
SNP_P4_163531_118598	NW_004516717.1	Scaffold1533	118598	CC	AA	1947012776
SNP_P4_163532_119833	NW_004516717.1	Scaffold1533	119833	TT	AA	1947012778
SNP_P4_163533_132845	NW_004516717.1	Scaffold1533	132845	GG	AA	1947012780
SNP_P4_163534_135092	NW_004516717.1	Scaffold1533	135092	AA	GG	1947012782
SNP_P4_163535_135112	NW_004516717.1	Scaffold1533	135112	TT	CC	1947012784
SNP_P4_163536_135449	NW_004516717.1	Scaffold1533	135449	GG	CC	1947012786
SNP_P4_163537_891	NW_004516718.1	Scaffold1535	891	GG	AA	1947012788
SNP_P4_163538_2578	NW_004516718.1	Scaffold1535	2578	TT	AA	1947012790
SNP_P4_163539_2937	NW_004516718.1	Scaffold1535	2937	AA	TT	1947012792
SNP_P4_163540_2992	NW_004516718.1	Scaffold1535	2992	AA	GG	1947012794
SNP_P4_163541_3111	NW_004516718.1	Scaffold1535	3111	AA	TT	1947012796
SNP_P4_163542_3129	NW_004516718.1	Scaffold1535	3129	CC	TT	1947012798
SNP_P4_163543_3160	NW_004516718.1	Scaffold1535	3160	CC	AA	1947012800
SNP_P4_163544_442	NW_004516720.1	Scaffold1542	442	AA	GG	1947012802
SNP_P4_163545_602	NW_004516720.1	Scaffold1542	602	AA	TT	1947012804
SNP_P4_163546_4875	NW_004516720.1	Scaffold1542	4875	GG	AA	1947012806
SNP_P4_163547_7035	NW_004516720.1	Scaffold1542	7035	TT	AA	1947012808

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_163549_7416	NW_004516720.1	Scaffold1542	7416	AA	CC	1947012812
SNP_P4_163550_39361	NW_004516720.1	Scaffold1542	39361	AA	TT	1947012814
SNP_P4_163551_39366	NW_004516720.1	Scaffold1542	39366	AA	CC	1947012816
SNP_P4_163552_42855	NW_004516720.1	Scaffold1542	42855	GG	CC	1947012818
SNP_P4_163553_64	NW_004516721.1	Scaffold1543	64	GG	CC	1947012820
SNP_P4_163554_309	NW_004516721.1	Scaffold1543	309	TT	GG	1947012822
SNP_P4_163555_328	NW_004516721.1	Scaffold1543	328	GG	TT	1947012824
SNP_P4_163556_605	NW_004516722.1	Scaffold1544	605	CC	AA	1947012826
SNP_P4_163557_644	NW_004516722.1	Scaffold1544	644	TT	AA	1947012828
SNP_P4_163558_782	NW_004516722.1	Scaffold1544	782	TT	GG	1947012830
SNP_P4_163559_830	NW_004516722.1	Scaffold1544	830	CC	AA	1947012832
SNP_P4_163560_1190	NW_004516722.1	Scaffold1544	1190	TT	AA	1947012834
SNP_P4_163561_1191	NW_004516722.1	Scaffold1544	1191	GG	TT	1947012836
SNP_P4_163562_1589	NW_004516722.1	Scaffold1544	1589	AA	GG	1947012838
SNP_P4_163563_1656	NW_004516722.1	Scaffold1544	1656	AA	TT	1947012840
SNP_P4_163564_1679	NW_004516722.1	Scaffold1544	1679	CC	TT	1947012842
SNP_P4_163565_1705	NW_004516722.1	Scaffold1544	1705	TT	CC	1947012844
SNP_P4_163566_1767	NW_004516722.1	Scaffold1544	1767	AA	CC	1947012846
SNP_P4_163567_2411	NW_004516722.1	Scaffold1544	2411	GG	AA	1947012848
SNP_P4_163568_2527	NW_004516722.1	Scaffold1544	2527	TT	CC	1947012850
SNP_P4_163569_2804	NW_004516722.1	Scaffold1544	2804	AA	GG	1947012852
SNP_P4_163570_2874	NW_004516722.1	Scaffold1544	2874	GG	AA	1947012854
SNP_P4_163571_3283	NW_004516722.1	Scaffold1544	3283	GG	AA	1947012856
SNP_P4_163572_8679	NW_004516722.1	Scaffold1544	8679	TT	CC	1947012858
SNP_P4_163573_8915	NW_004516722.1	Scaffold1544	8915	GG	CC	1947012860
SNP_P4_163574_9076	NW_004516722.1	Scaffold1544	9076	TT	GG	1947012863
SNP_P4_163575_9127	NW_004516722.1	Scaffold1544	9127	CC	GG	1947012865
SNP_P4_163576_9308	NW_004516722.1	Scaffold1544	9308	AA	TT	1947012867
SNP_P4_163577_9549	NW_004516722.1	Scaffold1544	9549	TT	AA	1947012869
SNP_P4_163578_9698	NW_004516722.1	Scaffold1544	9698	CC	TT	1947012871
SNP_P4_163579_14141	NW_004516722.1	Scaffold1544	14141	GG	CC	1947012873
SNP_P4_163580_14552	NW_004516722.1	Scaffold1544	14552	AA	TT	1947012875
SNP_P4_163582_14944	NW_004516722.1	Scaffold1544	14944	TT	CC	1947012877
SNP_P4_163584_29477	NW_004516723.1	Scaffold1545	29477	CC	TT	1947012879
SNP_P4_163585_36896	NW_004516723.1	Scaffold1545	36896	AA	GG	1947012881
SNP_P4_163586_39676	NW_004516723.1	Scaffold1545	39676	TT	GG	1947012883
SNP_P4_163587_39685	NW_004516723.1	Scaffold1545	39685	AA	GG	1947012885
SNP_P4_163588_39745	NW_004516723.1	Scaffold1545	39745	CC	TT	1947012887
SNP_P4_163589_40016	NW_004516723.1	Scaffold1545	40016	CC	TT	1947012889
SNP_P4_163590_40093	NW_004516723.1	Scaffold1545	40093	CC	TT	1947012891
SNP_P4_163591_42745	NW_004516723.1	Scaffold1545	42745	TT	GG	1947012893

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_163592_60316	NW_004516723.1	Scaffold1545	60316	AA	GG	1947012895
SNP_P4_163593_60355	NW_004516723.1	Scaffold1545	60355	TT	CC	1947012897
SNP_P4_163594_60521	NW_004516723.1	Scaffold1545	60521	AA	GG	1947012899
SNP_P4_163595_60755	NW_004516723.1	Scaffold1545	60755	TT	CC	1947012901
SNP_P4_163596_74399	NW_004516723.1	Scaffold1545	74399	TT	AA	1947012903
SNP_P4_163597_74637	NW_004516723.1	Scaffold1545	74637	GG	AA	1947012905
SNP_P4_163598_81342	NW_004516723.1	Scaffold1545	81342	AA	TT	1947012907
SNP_P4_163599_81343	NW_004516723.1	Scaffold1545	81343	GG	AA	1947012909
SNP_P4_163600_81400	NW_004516723.1	Scaffold1545	81400	GG	CC	1947012911
SNP_P4_163601_81406	NW_004516723.1	Scaffold1545	81406	TT	CC	1947012913
SNP_P4_163603_81521	NW_004516723.1	Scaffold1545	81521	AA	GG	1947012915
SNP_P4_163604_81569	NW_004516723.1	Scaffold1545	81569	AA	GG	1947012917
SNP_P4_163605_81616	NW_004516723.1	Scaffold1545	81616	TT	AA	1947012919
SNP_P4_163606_81627	NW_004516723.1	Scaffold1545	81627	GG	AA	1947012921
SNP_P4_163607_81633	NW_004516723.1	Scaffold1545	81633	CC	AA	1947012923
SNP_P4_163608_81648	NW_004516723.1	Scaffold1545	81648	AA	GG	1947012925
SNP_P4_163609_81661	NW_004516723.1	Scaffold1545	81661	CC	GG	1947012927
SNP_P4_163610_81665	NW_004516723.1	Scaffold1545	81665	TT	GG	1947012929
SNP_P4_163611_81699	NW_004516723.1	Scaffold1545	81699	AA	GG	1947012931
SNP_P4_163612_81763	NW_004516723.1	Scaffold1545	81763	TT	GG	1947012933
SNP_P4_163613_81779	NW_004516723.1	Scaffold1545	81779	TT	CC	1947012935
SNP_P4_163614_81786	NW_004516723.1	Scaffold1545	81786	TT	CC	1947012937
SNP_P4_163615_81787	NW_004516723.1	Scaffold1545	81787	TT	GG	1947012939
SNP_P4_163616_81790	NW_004516723.1	Scaffold1545	81790	GG	AA	1947012941
SNP_P4_163617_81791	NW_004516723.1	Scaffold1545	81791	AA	GG	1947012943
SNP_P4_163618_81797	NW_004516723.1	Scaffold1545	81797	TT	AA	1947012945
SNP_P4_163619_81813	NW_004516723.1	Scaffold1545	81813	AA	TT	1947012947
SNP_P4_163620_81973	NW_004516723.1	Scaffold1545	81973	AA	GG	1947012949
SNP_P4_163621_82018	NW_004516723.1	Scaffold1545	82018	TT	AA	1947012951
SNP_P4_163622_84899	NW_004516723.1	Scaffold1545	84899	GG	AA	1947012953
SNP_P4_163623_84906	NW_004516723.1	Scaffold1545	84906	TT	CC	1947012955
SNP_P4_163625_143980	NW_004516723.1	Scaffold1545	143980	GG	AA	1947012957
SNP_P4_163626_152435	NW_004516723.1	Scaffold1545	152435	TT	CC	1947012959
SNP_P4_163628_177536	NW_004516723.1	Scaffold1545	177536	AA	GG	1947012961
SNP_P4_163629_177542	NW_004516723.1	Scaffold1545	177542	GG	AA	1947012963
SNP_P4_163630_177622	NW_004516723.1	Scaffold1545	177622	CC	TT	1947012965
SNP_P4_163632_192180	NW_004516723.1	Scaffold1545	192180	GG	AA	1947012967
SNP_P4_163633_194883	NW_004516723.1	Scaffold1545	194883	GG	CC	1947012969
SNP_P4_163634_237472	NW_004516723.1	Scaffold1545	237472	CC	AA	1947012971
SNP_P4_163635_237498	NW_004516723.1	Scaffold1545	237498	TT	CC	1947012973
SNP_P4_163636_237523	NW_004516723.1	Scaffold1545	237523	AA	CC	1947012975
SNP_P4_163637_268707	NW_004516723.1	Scaffold1545	268707	GG	TT	1947012977

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_163639_269092	NW_004516723.1	Scaffold1545	269092	GG	AA	1947012981
SNP_P4_163640_274853	NW_004516723.1	Scaffold1545	274853	AA	GG	1947012983
SNP_P4_163641_279946	NW_004516723.1	Scaffold1545	279946	TT	GG	1947012985
SNP_P4_163642_287021	NW_004516723.1	Scaffold1545	287021	GG	AA	1947012987
SNP_P4_163643_288461	NW_004516723.1	Scaffold1545	288461	GG	CC	1947012989
SNP_P4_163644_288902	NW_004516723.1	Scaffold1545	288902	CC	TT	1947012991
SNP_P4_163645_288903	NW_004516723.1	Scaffold1545	288903	AA	GG	1947012993
SNP_P4_163646_288910	NW_004516723.1	Scaffold1545	288910	TT	CC	1947012995
SNP_P4_163647_290175	NW_004516723.1	Scaffold1545	290175	TT	CC	1947012997
SNP_P4_163648_305043	NW_004516723.1	Scaffold1545	305043	GG	AA	1947012999
SNP_P4_163650_39273	NW_004516724.1	Scaffold1546	39273	CC	TT	1947013001
SNP_P4_163651_70043	NW_004516724.1	Scaffold1546	70043	GG	AA	1947013003
SNP_P4_163652_76669	NW_004516724.1	Scaffold1546	76669	GG	AA	1947013005
SNP_P4_163653_76904	NW_004516724.1	Scaffold1546	76904	GG	AA	1947013007
SNP_P4_163654_81290	NW_004516724.1	Scaffold1546	81290	GG	AA	1947013009
SNP_P4_163655_81309	NW_004516724.1	Scaffold1546	81309	GG	AA	1947013011
SNP_P4_163656_81334	NW_004516724.1	Scaffold1546	81334	TT	GG	1947013013
SNP_P4_163657_81687	NW_004516724.1	Scaffold1546	81687	TT	CC	1947013015
SNP_P4_163658_84878	NW_004516724.1	Scaffold1546	84878	CC	AA	1947013017
SNP_P4_163659_99232	NW_004516724.1	Scaffold1546	99232	CC	TT	1947013019
SNP_P4_163660_99276	NW_004516724.1	Scaffold1546	99276	AA	GG	1947013021
SNP_P4_163661_99686	NW_004516724.1	Scaffold1546	99686	TT	CC	1947013023
SNP_P4_163663_125114	NW_004516724.1	Scaffold1546	125114	TT	AA	1947013025
SNP_P4_163664_127817	NW_004516724.1	Scaffold1546	127817	GG	TT	1947013027
SNP_P4_163665_128063	NW_004516724.1	Scaffold1546	128063	GG	TT	1947013029
SNP_P4_163666_140926	NW_004516724.1	Scaffold1546	140926	AA	TT	1947013031
SNP_P4_163667_141005	NW_004516724.1	Scaffold1546	141005	TT	CC	1947013033
SNP_P4_163668_141049	NW_004516724.1	Scaffold1546	141049	TT	GG	1947013035
SNP_P4_163669_141056	NW_004516724.1	Scaffold1546	141056	GG	CC	1947013037
SNP_P4_163670_141062	NW_004516724.1	Scaffold1546	141062	GG	AA	1947013039
SNP_P4_163671_141064	NW_004516724.1	Scaffold1546	141064	AA	TT	1947013041
SNP_P4_163672_141072	NW_004516724.1	Scaffold1546	141072	GG	AA	1947013043
SNP_P4_163673_141086	NW_004516724.1	Scaffold1546	141086	CC	AA	1947013045
SNP_P4_163674_141381	NW_004516724.1	Scaffold1546	141381	TT	GG	1947013047
SNP_P4_163675_141430	NW_004516724.1	Scaffold1546	141430	CC	TT	1947013049
SNP_P4_163676_141503	NW_004516724.1	Scaffold1546	141503	AA	GG	1947013051
SNP_P4_163677_141728	NW_004516724.1	Scaffold1546	141728	TT	CC	1947013053
SNP_P4_163678_141772	NW_004516724.1	Scaffold1546	141772	GG	AA	1947013055
SNP_P4_163679_141776	NW_004516724.1	Scaffold1546	141776	AA	TT	1947013057
SNP_P4_163680_141851	NW_004516724.1	Scaffold1546	141851	AA	GG	1947013059
SNP_P4_163681_855	NW_004516726.1	Scaffold1548	855	TT	GG	1947013061

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_163683_872	NW_004516726.1	Scaffold1548	872	AA	GG	1947013065
SNP_P4_163685_1173	NW_004516726.1	Scaffold1548	1173	AA	GG	1947013067
SNP_P4_163686_1469	NW_004516726.1	Scaffold1548	1469	GG	TT	1947013069
SNP_P4_163687_1557	NW_004516726.1	Scaffold1548	1557	AA	TT	1947013071
SNP_P4_163688_1732	NW_004516726.1	Scaffold1548	1732	TT	CC	1947013073
SNP_P4_163689_10135	NW_004516726.1	Scaffold1548	10135	TT	AA	1947013075
SNP_P4_163690_10409	NW_004516726.1	Scaffold1548	10409	TT	CC	1947013077
SNP_P4_163691_11023	NW_004516726.1	Scaffold1548	11023	AA	TT	1947013079
SNP_P4_163693_11187	NW_004516726.1	Scaffold1548	11187	CC	TT	1947013081
SNP_P4_163694_11283	NW_004516726.1	Scaffold1548	11283	CC	TT	1947013083
SNP_P4_163695_11314	NW_004516726.1	Scaffold1548	11314	AA	GG	1947013085
SNP_P4_163696_12321	NW_004516726.1	Scaffold1548	12321	GG	TT	1947013087
SNP_P4_163697_15003	NW_004516726.1	Scaffold1548	15003	CC	TT	1947013089
SNP_P4_163698_15317	NW_004516726.1	Scaffold1548	15317	CC	TT	1947013091
SNP_P4_163699_15490	NW_004516726.1	Scaffold1548	15490	AA	TT	1947013093
SNP_P4_163700_16152	NW_004516726.1	Scaffold1548	16152	GG	AA	1947013095
SNP_P4_163701_18691	NW_004516726.1	Scaffold1548	18691	AA	TT	1947013097
SNP_P4_163702_18719	NW_004516726.1	Scaffold1548	18719	AA	GG	1947013099
SNP_P4_163703_20048	NW_004516726.1	Scaffold1548	20048	CC	TT	1947013101
SNP_P4_163704_20264	NW_004516726.1	Scaffold1548	20264	TT	CC	1947013103
SNP_P4_163705_20320	NW_004516726.1	Scaffold1548	20320	CC	AA	1947013105
SNP_P4_163706_20478	NW_004516726.1	Scaffold1548	20478	CC	TT	1947013107
SNP_P4_163707_20692	NW_004516726.1	Scaffold1548	20692	AA	GG	1947013109
SNP_P4_163708_20719	NW_004516726.1	Scaffold1548	20719	TT	CC	1947013111
SNP_P4_163709_24779	NW_004516726.1	Scaffold1548	24779	AA	GG	1947013113
SNP_P4_163711_25024	NW_004516726.1	Scaffold1548	25024	GG	TT	1947013115
SNP_P4_163712_25138	NW_004516726.1	Scaffold1548	25138	TT	CC	1947013117
SNP_P4_163713_27497	NW_004516726.1	Scaffold1548	27497	GG	AA	1947013120
SNP_P4_163714_27544	NW_004516726.1	Scaffold1548	27544	GG	AA	1947013122
SNP_P4_163715_27669	NW_004516726.1	Scaffold1548	27669	GG	AA	1947013124
SNP_P4_163716_27731	NW_004516726.1	Scaffold1548	27731	GG	AA	1947013126
SNP_P4_163717_27879	NW_004516726.1	Scaffold1548	27879	GG	TT	1947013128
SNP_P4_163718_5550	NW_004516728.1	Scaffold1550	5550	CC	AA	1947013130
SNP_P4_163719_5552	NW_004516728.1	Scaffold1550	5552	AA	GG	1947013132
SNP_P4_163720_5840	NW_004516728.1	Scaffold1550	5840	AA	TT	1947013134
SNP_P4_163721_5854	NW_004516728.1	Scaffold1550	5854	GG	AA	1947013136
SNP_P4_163722_5878	NW_004516728.1	Scaffold1550	5878	AA	CC	1947013137
SNP_P4_163723_6606	NW_004516728.1	Scaffold1550	6606	CC	TT	1947013139
SNP_P4_163724_6781	NW_004516728.1	Scaffold1550	6781	AA	CC	1947013141
SNP_P4_163725_16296	NW_004516728.1	Scaffold1550	16296	CC	TT	1947013143
SNP_P4_163726_16444	NW_004516728.1	Scaffold1550	16444	TT	CC	1947013145

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_163728_16891	NW_004516728.1	Scaffold1550	16891	AA	GG	1947013149
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SNP_P4_163732_33635	NW_004516728.1	Scaffold1550	33635	TT	GG	1947013153
SNP_P4_163733_33760	NW_004516728.1	Scaffold1550	33760	CC	AA	1947013155
SNP_P4_163734_33766	NW_004516728.1	Scaffold1550	33766	TT	CC	1947013157
SNP_P4_163735_40467	NW_004516728.1	Scaffold1550	40467	TT	CC	1947013159
SNP_P4_163736_40470	NW_004516728.1	Scaffold1550	40470	TT	CC	1947013161
SNP_P4_163737_40546	NW_004516728.1	Scaffold1550	40546	AA	TT	1947013163
SNP_P4_163738_40821	NW_004516728.1	Scaffold1550	40821	TT	CC	1947013165
SNP_P4_163739_40829	NW_004516728.1	Scaffold1550	40829	AA	CC	1947013167
SNP_P4_163740_40840	NW_004516728.1	Scaffold1550	40840	CC	TT	1947013169
SNP_P4_163741_40990	NW_004516728.1	Scaffold1550	40990	AA	GG	1947013171
SNP_P4_163742_41102	NW_004516728.1	Scaffold1550	41102	CC	GG	1947013173
SNP_P4_163743_41138	NW_004516728.1	Scaffold1550	41138	TT	AA	1947013175
SNP_P4_163744_43768	NW_004516728.1	Scaffold1550	43768	AA	GG	1947013177
SNP_P4_163745_43804	NW_004516728.1	Scaffold1550	43804	AA	GG	1947013179
SNP_P4_163746_43889	NW_004516728.1	Scaffold1550	43889	CC	AA	1947013181
SNP_P4_163747_43907	NW_004516728.1	Scaffold1550	43907	AA	GG	1947013183
SNP_P4_163748_44240	NW_004516728.1	Scaffold1550	44240	AA	GG	1947013185
SNP_P4_163749_44277	NW_004516728.1	Scaffold1550	44277	TT	AA	1947013187
SNP_P4_163751_49087	NW_004516728.1	Scaffold1550	49087	GG	AA	1947013189
SNP_P4_163752_49398	NW_004516728.1	Scaffold1550	49398	CC	TT	1947013192
SNP_P4_163753_49655	NW_004516728.1	Scaffold1550	49655	CC	GG	1947013194
SNP_P4_163754_49733	NW_004516728.1	Scaffold1550	49733	GG	TT	1947013196
SNP_P4_163755_53461	NW_004516728.1	Scaffold1550	53461	TT	GG	1947013198
SNP_P4_163756_53515	NW_004516728.1	Scaffold1550	53515	AA	CC	1947013200
SNP_P4_163757_53527	NW_004516728.1	Scaffold1550	53527	AA	GG	1947013202
SNP_P4_163760_61356	NW_004516728.1	Scaffold1550	61356	GG	AA	1947013204
SNP_P4_163761_61359	NW_004516728.1	Scaffold1550	61359	CC	TT	1947013206
SNP_P4_163762_63832	NW_004516728.1	Scaffold1550	63832	AA	GG	1947013208
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SNP_P4_163766_95654	NW_004516728.1	Scaffold1550	95654	AA	TT	1947013216
SNP_P4_163767_95657	NW_004516728.1	Scaffold1550	95657	AA	GG	1947013219
SNP_P4_163768_95661	NW_004516728.1	Scaffold1550	95661	TT	CC	1947013221
SNP_P4_163769_95693	NW_004516728.1	Scaffold1550	95693	AA	TT	1947013223
SNP_P4_163770_99250	NW_004516728.1	Scaffold1550	99250	TT	CC	1947013225
SNP_P4_163771_99275	NW_004516728.1	Scaffold1550	99275	CC	GG	1947013227
SNP_P4_163772_99328	NW_004516728.1	Scaffold1550	99328	AA	TT	1947013229
SNP_P4_163773_99346	NW_004516728.1	Scaffold1550	99346	CC	TT	1947013231

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_163776_100921	NW_004516728.1	Scaffold1550	100921	GG	AA	1947013237
SNP_P4_163777_100982	NW_004516728.1	Scaffold1550	100982	AA	TT	1947013239
SNP_P4_163778_104745	NW_004516728.1	Scaffold1550	104745	AA	CC	1947013241
SNP_P4_163779_104773	NW_004516728.1	Scaffold1550	104773	TT	AA	1947013243
SNP_P4_163780_104815	NW_004516728.1	Scaffold1550	104815	TT	AA	1947013245
SNP_P4_163782_1903	NW_004516730.1	Scaffold1552	1903	CC	GG	1947013247
SNP_P4_163783_1928	NW_004516730.1	Scaffold1552	1928	TT	AA	1947013249
SNP_P4_163784_1954	NW_004516730.1	Scaffold1552	1954	CC	TT	1947013251
SNP_P4_163785_2004	NW_004516730.1	Scaffold1552	2004	CC	TT	1947013253
SNP_P4_163786_2125	NW_004516730.1	Scaffold1552	2125	GG	AA	1947013255
SNP_P4_163788_2534	NW_004516730.1	Scaffold1552	2534	TT	AA	1947013257
SNP_P4_163789_2538	NW_004516730.1	Scaffold1552	2538	CC	TT	1947013259
SNP_P4_163790_2540	NW_004516730.1	Scaffold1552	2540	GG	AA	1947013261
SNP_P4_163791_4664	NW_004516730.1	Scaffold1552	4664	TT	CC	1947013263
SNP_P4_163792_4792	NW_004516730.1	Scaffold1552	4792	CC	TT	1947013265
SNP_P4_163793_4837	NW_004516730.1	Scaffold1552	4837	AA	GG	1947013267
SNP_P4_163794_4872	NW_004516730.1	Scaffold1552	4872	TT	CC	1947013269
SNP_P4_163795_4911	NW_004516730.1	Scaffold1552	4911	CC	AA	1947013271
SNP_P4_163796_5040	NW_004516730.1	Scaffold1552	5040	AA	GG	1947013273
SNP_P4_163797_5093	NW_004516730.1	Scaffold1552	5093	AA	GG	1947013275
SNP_P4_163798_5403	NW_004516730.1	Scaffold1552	5403	CC	TT	1947013277
SNP_P4_163799_5410	NW_004516730.1	Scaffold1552	5410	GG	AA	1947013279
SNP_P4_163800_6212	NW_004516730.1	Scaffold1552	6212	CC	TT	1947013281
SNP_P4_163801_6321	NW_004516730.1	Scaffold1552	6321	CC	GG	1947013283
SNP_P4_163802_6484	NW_004516730.1	Scaffold1552	6484	TT	GG	1947013285
SNP_P4_163803_6541	NW_004516730.1	Scaffold1552	6541	TT	AA	1947013287
SNP_P4_163804_6585	NW_004516730.1	Scaffold1552	6585	GG	AA	1947013289
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SNP_P4_163807_6598	NW_004516730.1	Scaffold1552	6598	CC	TT	1947013295
SNP_P4_163808_7414	NW_004516730.1	Scaffold1552	7414	AA	GG	1947013297
SNP_P4_163809_7987	NW_004516730.1	Scaffold1552	7987	TT	CC	1947013299
SNP_P4_163810_7998	NW_004516730.1	Scaffold1552	7998	CC	TT	1947013301
SNP_P4_163811_8031	NW_004516730.1	Scaffold1552	8031	GG	AA	1947013303
SNP_P4_163812_8070	NW_004516730.1	Scaffold1552	8070	CC	TT	1947013305
SNP_P4_163813_8125	NW_004516730.1	Scaffold1552	8125	CC	TT	1947013307
SNP_P4_163814_8275	NW_004516730.1	Scaffold1552	8275	CC	TT	1947013309
SNP_P4_163815_10587	NW_004516730.1	Scaffold1552	10587	AA	GG	1947013310
SNP_P4_163816_10780	NW_004516730.1	Scaffold1552	10780	TT	AA	1947013312
SNP_P4_163817_10856	NW_004516730.1	Scaffold1552	10856	AA	CC	1947013314

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_163819_11332	NW_004516730.1	Scaffold1552	11332	AA	TT	1947013318
SNP_P4_163820_11370	NW_004516730.1	Scaffold1552	11370	CC	GG	1947013320
SNP_P4_163821_11478	NW_004516730.1	Scaffold1552	11478	GG	AA	1947013321
SNP_P4_163822_11548	NW_004516730.1	Scaffold1552	11548	AA	TT	1947013323
SNP_P4_163823_13272	NW_004516730.1	Scaffold1552	13272	AA	GG	1947013325
SNP_P4_163824_13296	NW_004516730.1	Scaffold1552	13296	CC	AA	1947013327
SNP_P4_163825_13304	NW_004516730.1	Scaffold1552	13304	AA	TT	1947013329
SNP_P4_163826_13312	NW_004516730.1	Scaffold1552	13312	AA	TT	1947013331
SNP_P4_163827_13321	NW_004516730.1	Scaffold1552	13321	AA	TT	1947013333
SNP_P4_163828_13359	NW_004516730.1	Scaffold1552	13359	AA	GG	1947013335
SNP_P4_163829_17302	NW_004516730.1	Scaffold1552	17302	GG	AA	1947013337
SNP_P4_163830_17321	NW_004516730.1	Scaffold1552	17321	AA	CC	1947013339
SNP_P4_163831_19741	NW_004516730.1	Scaffold1552	19741	GG	TT	1947013341
SNP_P4_163832_19836	NW_004516730.1	Scaffold1552	19836	CC	GG	1947013343
SNP_P4_163833_19890	NW_004516730.1	Scaffold1552	19890	TT	CC	1947013345
SNP_P4_163834_19992	NW_004516730.1	Scaffold1552	19992	GG	AA	1947013347
SNP_P4_163835_20170	NW_004516730.1	Scaffold1552	20170	CC	TT	1947013349
SNP_P4_163836_20290	NW_004516730.1	Scaffold1552	20290	TT	CC	1947013351
SNP_P4_163837_20295	NW_004516730.1	Scaffold1552	20295	GG	AA	1947013353
SNP_P4_163838_20558	NW_004516730.1	Scaffold1552	20558	TT	AA	1947013355
SNP_P4_163839_20573	NW_004516730.1	Scaffold1552	20573	CC	TT	1947013357
SNP_P4_163840_4168	NW_004516731.1	Scaffold1553	4168	CC	TT	1947013359
SNP_P4_163841_4317	NW_004516731.1	Scaffold1553	4317	TT	CC	1947013361
SNP_P4_163842_4569	NW_004516731.1	Scaffold1553	4569	CC	TT	1947013363
SNP_P4_163843_4576	NW_004516731.1	Scaffold1553	4576	CC	AA	1947013365
SNP_P4_163845_4887	NW_004516731.1	Scaffold1553	4887	TT	CC	1947013367
SNP_P4_163846_1182	NW_004516734.1	Scaffold1557	1182	CC	TT	1947013369
SNP_P4_163847_1477	NW_004516734.1	Scaffold1557	1477	AA	GG	1947013371
SNP_P4_163848_1540	NW_004516734.1	Scaffold1557	1540	TT	GG	1947013373
SNP_P4_163849_5800	NW_004516734.1	Scaffold1557	5800	GG	AA	1947013375
SNP_P4_163850_64	NW_004516736.1	Scaffold1559	64	AA	GG	1947013377
SNP_P4_163851_426	NW_004516736.1	Scaffold1559	426	GG	CC	1947013379
SNP_P4_163852_438	NW_004516736.1	Scaffold1559	438	AA	TT	1947013381
SNP_P4_163853_460	NW_004516736.1	Scaffold1559	460	AA	TT	1947013383
SNP_P4_163854_758	NW_004516736.1	Scaffold1559	758	CC	TT	1947013385
SNP_P4_163855_820	NW_004516736.1	Scaffold1559	820	AA	TT	1947013387
SNP_P4_163856_955	NW_004516736.1	Scaffold1559	955	AA	GG	1947013389
SNP_P4_163857_1082	NW_004516736.1	Scaffold1559	1082	AA	TT	1947013391
SNP_P4_163858_1087	NW_004516736.1	Scaffold1559	1087	TT	AA	1947013393
SNP_P4_163859_1089	NW_004516736.1	Scaffold1559	1089	TT	AA	1947013395
SNP_P4_163860_984	NW_004516738.1	Scaffold1561	984	AA	TT	1947013397

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_163862_1874	NW_004516738.1	Scaffold1561	1874	CC	AA	1947013401
SNP_P4_163863_7396	NW_004516738.1	Scaffold1561	7396	TT	CC	1947013403
SNP_P4_163864_7415	NW_004516738.1	Scaffold1561	7415	CC	AA	1947013405
SNP_P4_163865_7440	NW_004516738.1	Scaffold1561	7440	TT	GG	1947013407
SNP_P4_163866_7664	NW_004516738.1	Scaffold1561	7664	CC	GG	1947013409
SNP_P4_163867_7666	NW_004516738.1	Scaffold1561	7666	TT	CC	1947013411
SNP_P4_163868_7731	NW_004516738.1	Scaffold1561	7731	GG	TT	1947013413
SNP_P4_163869_7743	NW_004516738.1	Scaffold1561	7743	TT	CC	1947013415
SNP_P4_163870_7772	NW_004516738.1	Scaffold1561	7772	GG	TT	1947013417
SNP_P4_163871_7893	NW_004516738.1	Scaffold1561	7893	TT	GG	1947013419
SNP_P4_163872_15598	NW_004516738.1	Scaffold1561	15598	CC	AA	1947013421
SNP_P4_163874_17538	NW_004516738.1	Scaffold1561	17538	AA	TT	1947013424
SNP_P4_163875_17612	NW_004516738.1	Scaffold1561	17612	GG	TT	1947013426
SNP_P4_163876_17639	NW_004516738.1	Scaffold1561	17639	CC	TT	1947013428
SNP_P4_163877_25802	NW_004516738.1	Scaffold1561	25802	GG	AA	1947013430
SNP_P4_163879_32241	NW_004516738.1	Scaffold1561	32241	CC	TT	1947013432
SNP_P4_163880_33607	NW_004516738.1	Scaffold1561	33607	GG	AA	1947013434
SNP_P4_163882_34471	NW_004516738.1	Scaffold1561	34471	AA	CC	1947013436
SNP_P4_163883_34474	NW_004516738.1	Scaffold1561	34474	AA	CC	1947013439
SNP_P4_163884_37149	NW_004516738.1	Scaffold1561	37149	GG	AA	1947013441
SNP_P4_163885_44889	NW_004516738.1	Scaffold1561	44889	GG	AA	1947013443
SNP_P4_163886_48594	NW_004516738.1	Scaffold1561	48594	AA	GG	1947013445
SNP_P4_163887_49502	NW_004516738.1	Scaffold1561	49502	AA	CC	1947013447
SNP_P4_163888_52370	NW_004516738.1	Scaffold1561	52370	GG	AA	1947013449
SNP_P4_163889_52664	NW_004516738.1	Scaffold1561	52664	TT	CC	1947013451
SNP_P4_163890_52694	NW_004516738.1	Scaffold1561	52694	AA	GG	1947013453
SNP_P4_163891_52704	NW_004516738.1	Scaffold1561	52704	TT	AA	1947013455
SNP_P4_163892_52735	NW_004516738.1	Scaffold1561	52735	TT	CC	1947013457
SNP_P4_163893_54774	NW_004516738.1	Scaffold1561	54774	AA	GG	1947013459
SNP_P4_163894_55106	NW_004516738.1	Scaffold1561	55106	AA	TT	1947013461
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SNP_P4_163896_55146	NW_004516738.1	Scaffold1561	55146	AA	GG	1947013466
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SNP_P4_163899_55182	NW_004516738.1	Scaffold1561	55182	TT	AA	1947013472
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SNP_P4_163901_55229	NW_004516738.1	Scaffold1561	55229	CC	AA	1947013476
SNP_P4_163902_55271	NW_004516738.1	Scaffold1561	55271	CC	TT	1947013479
SNP_P4_163903_55285	NW_004516738.1	Scaffold1561	55285	AA	TT	1947013481
SNP_P4_163904_55298	NW_004516738.1	Scaffold1561	55298	GG	AA	1947013483
SNP_P4_163905_55330	NW_004516738.1	Scaffold1561	55330	AA	TT	1947013485

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_163908_55547	NW_004516738.1	Scaffold1561	55547	GG	AA	1947013491
SNP_P4_163909_55594	NW_004516738.1	Scaffold1561	55594	AA	GG	1947013493
SNP_P4_163910_55610	NW_004516738.1	Scaffold1561	55610	AA	GG	1947013495
SNP_P4_163911_55642	NW_004516738.1	Scaffold1561	55642	AA	GG	1947013497
SNP_P4_163912_55701	NW_004516738.1	Scaffold1561	55701	TT	CC	1947013499
SNP_P4_163913_57692	NW_004516738.1	Scaffold1561	57692	AA	CC	1947013502
SNP_P4_163914_57693	NW_004516738.1	Scaffold1561	57693	TT	AA	1947013504
SNP_P4_163915_69864	NW_004516738.1	Scaffold1561	69864	GG	TT	1947013506
SNP_P4_163916_69882	NW_004516738.1	Scaffold1561	69882	GG	TT	1947013508
SNP_P4_163917_69885	NW_004516738.1	Scaffold1561	69885	GG	TT	1947013510
SNP_P4_163918_69921	NW_004516738.1	Scaffold1561	69921	CC	AA	1947013512
SNP_P4_163919_70296	NW_004516738.1	Scaffold1561	70296	GG	AA	1947013514
SNP_P4_163920_70451	NW_004516738.1	Scaffold1561	70451	TT	GG	1947013516
SNP_P4_163921_70458	NW_004516738.1	Scaffold1561	70458	CC	AA	1947013518
SNP_P4_163922_70497	NW_004516738.1	Scaffold1561	70497	AA	GG	1947013520
SNP_P4_163923_70521	NW_004516738.1	Scaffold1561	70521	TT	CC	1947013522
SNP_P4_163924_70536	NW_004516738.1	Scaffold1561	70536	AA	TT	1947013524
SNP_P4_163925_70544	NW_004516738.1	Scaffold1561	70544	AA	CC	1947013526
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SNP_P4_163927_70662	NW_004516738.1	Scaffold1561	70662	GG	AA	1947013530
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SNP_P4_163930_70812	NW_004516738.1	Scaffold1561	70812	CC	TT	1947013536
SNP_P4_163931_70829	NW_004516738.1	Scaffold1561	70829	GG	TT	1947013538
SNP_P4_163933_80132	NW_004516738.1	Scaffold1561	80132	AA	GG	1947013540
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SNP_P4_163938_81977	NW_004516738.1	Scaffold1561	81977	TT	CC	1947013548
SNP_P4_163939_1069	NW_004516739.1	Scaffold1562	1069	CC	AA	1947013550
SNP_P4_163940_1080	NW_004516739.1	Scaffold1562	1080	AA	CC	1947013552
SNP_P4_163941_1082	NW_004516739.1	Scaffold1562	1082	GG	AA	1947013554
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SNP_P4_163946_4415	NW_004516739.1	Scaffold1562	4415	AA	TT	1947013565
SNP_P4_163947_4726	NW_004516739.1	Scaffold1562	4726	AA	GG	1947013567
SNP_P4_163948_4731	NW_004516739.1	Scaffold1562	4731	AA	CC	1947013569
SNP_P4_163949_4758	NW_004516739.1	Scaffold1562	4758	TT	GG	1947013571

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_163951_25275	NW_004516739.1	Scaffold1562	25275	GG	AA	1947013573
SNP_P4_163954_62113	NW_004516739.1	Scaffold1562	62113	TT	AA	1947013575
SNP_P4_163955_62157	NW_004516739.1	Scaffold1562	62157	AA	CC	1947013577
SNP_P4_163957_63043	NW_004516739.1	Scaffold1562	63043	TT	CC	1947013579
SNP_P4_163958_64108	NW_004516739.1	Scaffold1562	64108	AA	CC	1947013581
SNP_P4_163959_64144	NW_004516739.1	Scaffold1562	64144	GG	AA	1947013583
SNP_P4_163960_64173	NW_004516739.1	Scaffold1562	64173	TT	AA	1947013585
SNP_P4_163961_64207	NW_004516739.1	Scaffold1562	64207	GG	TT	1947013587
SNP_P4_163962_64421	NW_004516739.1	Scaffold1562	64421	CC	TT	1947013590
SNP_P4_163963_64444	NW_004516739.1	Scaffold1562	64444	GG	AA	1947013592
SNP_P4_163964_77222	NW_004516739.1	Scaffold1562	77222	AA	GG	1947013594
SNP_P4_163965_82072	NW_004516739.1	Scaffold1562	82072	GG	AA	1947013596
SNP_P4_163966_96965	NW_004516739.1	Scaffold1562	96965	AA	GG	1947013598
SNP_P4_163967_96986	NW_004516739.1	Scaffold1562	96986	GG	AA	1947013600
SNP_P4_163968_96997	NW_004516739.1	Scaffold1562	96997	TT	CC	1947013602
SNP_P4_163969_101812	NW_004516739.1	Scaffold1562	101812	AA	GG	1947013604
SNP_P4_163970_101818	NW_004516739.1	Scaffold1562	101818	AA	GG	1947013606
SNP_P4_163971_102210	NW_004516739.1	Scaffold1562	102210	TT	CC	1947013608
SNP_P4_163972_102212	NW_004516739.1	Scaffold1562	102212	GG	AA	1947013610
SNP_P4_163973_102213	NW_004516739.1	Scaffold1562	102213	TT	GG	1947013612
SNP_P4_163974_102224	NW_004516739.1	Scaffold1562	102224	CC	GG	1947013614
SNP_P4_163975_102232	NW_004516739.1	Scaffold1562	102232	TT	AA	1947013616
SNP_P4_163976_102254	NW_004516739.1	Scaffold1562	102254	TT	GG	1947013618
SNP_P4_163977_102314	NW_004516739.1	Scaffold1562	102314	TT	AA	1947013620
SNP_P4_163978_103703	NW_004516739.1	Scaffold1562	103703	AA	GG	1947013622
SNP_P4_163979_103809	NW_004516739.1	Scaffold1562	103809	AA	TT	1947013624
SNP_P4_163980_103818	NW_004516739.1	Scaffold1562	103818	AA	CC	1947013626
SNP_P4_163981_103869	NW_004516739.1	Scaffold1562	103869	AA	CC	1947013628
SNP_P4_163982_104130	NW_004516739.1	Scaffold1562	104130	TT	CC	1947013630
SNP_P4_163983_104208	NW_004516739.1	Scaffold1562	104208	AA	GG	1947013632
SNP_P4_163984_104216	NW_004516739.1	Scaffold1562	104216	GG	AA	1947013634
SNP_P4_163985_104224	NW_004516739.1	Scaffold1562	104224	GG	AA	1947013636
SNP_P4_163986_140636	NW_004516739.1	Scaffold1562	140636	TT	CC	1947013638
SNP_P4_163988_1563	NW_004516742.1	Scaffold1568	1563	CC	AA	1947013640
SNP_P4_163989_1691	NW_004516742.1	Scaffold1568	1691	AA	CC	1947013642
SNP_P4_163990_1861	NW_004516742.1	Scaffold1568	1861	TT	GG	1947013644
SNP_P4_163991_1903	NW_004516742.1	Scaffold1568	1903	TT	AA	1947013646
SNP_P4_163992_1946	NW_004516742.1	Scaffold1568	1946	CC	TT	1947013648
SNP_P4_163993_1981	NW_004516742.1	Scaffold1568	1981	GG	CC	1947013650
SNP_P4_163994_2042	NW_004516742.1	Scaffold1568	2042	GG	TT	1947013652
SNP_P4_163995_9656	NW_004516742.1	Scaffold1568	9656	GG	AA	1947013654
SNP_P4_163996_9993	NW_004516742.1	Scaffold1568	9993	TT	CC	1947013656

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_163998_11652	NW_004516742.1	Scaffold1568	11652	GG	TT	1947013660
SNP_P4_163999_11933	NW_004516742.1	Scaffold1568	11933	TT	CC	1947013662
SNP_P4_164000_12683	NW_004516742.1	Scaffold1568	12683	AA	GG	1947013664
SNP_P4_164001_13473	NW_004516742.1	Scaffold1568	13473	GG	AA	1947013666
SNP_P4_164002_14044	NW_004516742.1	Scaffold1568	14044	TT	AA	1947013668
SNP_P4_164003_15212	NW_004516742.1	Scaffold1568	15212	TT	CC	1947013670
SNP_P4_164004_17241	NW_004516742.1	Scaffold1568	17241	GG	TT	1947013672
SNP_P4_164005_17265	NW_004516742.1	Scaffold1568	17265	AA	GG	1947013674
SNP_P4_164006_17267	NW_004516742.1	Scaffold1568	17267	GG	AA	1947013676
SNP_P4_164007_17271	NW_004516742.1	Scaffold1568	17271	AA	TT	1947013678
SNP_P4_164008_17905	NW_004516742.1	Scaffold1568	17905	CC	GG	1947013680
SNP_P4_164009_17988	NW_004516742.1	Scaffold1568	17988	TT	GG	1947013682
SNP_P4_164010_18012	NW_004516742.1	Scaffold1568	18012	AA	TT	1947013684
SNP_P4_164011_18208	NW_004516742.1	Scaffold1568	18208	TT	GG	1947013686
SNP_P4_164012_21888	NW_004516742.1	Scaffold1568	21888	TT	AA	1947013688
SNP_P4_164013_22086	NW_004516742.1	Scaffold1568	22086	CC	AA	1947013690
SNP_P4_164014_22311	NW_004516742.1	Scaffold1568	22311	AA	GG	1947013692
SNP_P4_164015_22332	NW_004516742.1	Scaffold1568	22332	CC	TT	1947013694
SNP_P4_164016_22463	NW_004516742.1	Scaffold1568	22463	CC	AA	1947013696
SNP_P4_164017_22487	NW_004516742.1	Scaffold1568	22487	TT	AA	1947013698
SNP_P4_164018_22832	NW_004516742.1	Scaffold1568	22832	GG	AA	1947013700
SNP_P4_164019_23008	NW_004516742.1	Scaffold1568	23008	TT	AA	1947013703
SNP_P4_164020_23429	NW_004516742.1	Scaffold1568	23429	TT	AA	1947013705
SNP_P4_164021_23489	NW_004516742.1	Scaffold1568	23489	CC	AA	1947013707
SNP_P4_164022_23585	NW_004516742.1	Scaffold1568	23585	TT	CC	1947013709
SNP_P4_164023_23596	NW_004516742.1	Scaffold1568	23596	CC	GG	1947013711
SNP_P4_164024_23610	NW_004516742.1	Scaffold1568	23610	AA	GG	1947013713
SNP_P4_164025_23659	NW_004516742.1	Scaffold1568	23659	GG	CC	1947013715
SNP_P4_164026_23667	NW_004516742.1	Scaffold1568	23667	AA	TT	1947013717
SNP_P4_164027_24472	NW_004516742.1	Scaffold1568	24472	GG	AA	1947013719
SNP_P4_164028_24754	NW_004516742.1	Scaffold1568	24754	TT	CC	1947013720
SNP_P4_164029_24953	NW_004516742.1	Scaffold1568	24953	TT	GG	1947013722
SNP_P4_164030_24962	NW_004516742.1	Scaffold1568	24962	TT	CC	1947013724
SNP_P4_164031_25009	NW_004516742.1	Scaffold1568	25009	CC	TT	1947013726
SNP_P4_164032_25017	NW_004516742.1	Scaffold1568	25017	GG	TT	1947013728
SNP_P4_164033_25085	NW_004516742.1	Scaffold1568	25085	CC	GG	1947013730
SNP_P4_164034_25098	NW_004516742.1	Scaffold1568	25098	TT	GG	1947013732
SNP_P4_164035_27234	NW_004516742.1	Scaffold1568	27234	TT	AA	1947013734
SNP_P4_164036_27649	NW_004516742.1	Scaffold1568	27649	AA	TT	1947013736
SNP_P4_164037_29438	NW_004516742.1	Scaffold1568	29438	GG	AA	1947013738
SNP_P4_164038_29455	NW_004516742.1	Scaffold1568	29455	CC	GG	1947013740

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_164039_30131	NW_004516742.1	Scaffold1568	30131	GG	CC	1947013742
SNP_P4_164040_33292	NW_004516742.1	Scaffold1568	33292	TT	CC	1947013744
SNP_P4_164042_33313	NW_004516742.1	Scaffold1568	33313	AA	TT	1947013746
SNP_P4_164045_33374	NW_004516742.1	Scaffold1568	33374	TT	GG	1947013748
SNP_P4_164046_33390	NW_004516742.1	Scaffold1568	33390	CC	TT	1947013750
SNP_P4_164047_33621	NW_004516742.1	Scaffold1568	33621	TT	CC	1947013752
SNP_P4_164048_33648	NW_004516742.1	Scaffold1568	33648	AA	CC	1947013754
SNP_P4_164049_34378	NW_004516742.1	Scaffold1568	34378	TT	CC	1947013756
SNP_P4_164050_34390	NW_004516742.1	Scaffold1568	34390	TT	GG	1947013758
SNP_P4_164051_44282	NW_004516742.1	Scaffold1568	44282	TT	GG	1947013760
SNP_P4_164052_44391	NW_004516742.1	Scaffold1568	44391	AA	TT	1947013762
SNP_P4_164053_44419	NW_004516742.1	Scaffold1568	44419	TT	CC	1947013764
SNP_P4_164054_44423	NW_004516742.1	Scaffold1568	44423	GG	CC	1947013766
SNP_P4_164056_44462	NW_004516742.1	Scaffold1568	44462	AA	CC	1947013768
SNP_P4_164057_44478	NW_004516742.1	Scaffold1568	44478	AA	GG	1947013770
SNP_P4_164058_44487	NW_004516742.1	Scaffold1568	44487	TT	AA	1947013772
SNP_P4_164059_44506	NW_004516742.1	Scaffold1568	44506	AA	TT	1947013774
SNP_P4_164061_44530	NW_004516742.1	Scaffold1568	44530	TT	AA	1947013776
SNP_P4_164062_44559	NW_004516742.1	Scaffold1568	44559	TT	GG	1947013778
SNP_P4_164064_45165	NW_004516742.1	Scaffold1568	45165	TT	CC	1947013780
SNP_P4_164065_45176	NW_004516742.1	Scaffold1568	45176	CC	TT	1947013782
SNP_P4_164066_46136	NW_004516742.1	Scaffold1568	46136	TT	AA	1947013784
SNP_P4_164067_46477	NW_004516742.1	Scaffold1568	46477	TT	GG	1947013786
SNP_P4_164068_46483	NW_004516742.1	Scaffold1568	46483	GG	TT	1947013788
SNP_P4_164069_46493	NW_004516742.1	Scaffold1568	46493	TT	CC	1947013790
SNP_P4_164070_46720	NW_004516742.1	Scaffold1568	46720	GG	AA	1947013792
SNP_P4_164071_48878	NW_004516742.1	Scaffold1568	48878	TT	GG	1947013794
SNP_P4_164072_49466	NW_004516742.1	Scaffold1568	49466	AA	TT	1947013796
SNP_P4_164073_49500	NW_004516742.1	Scaffold1568	49500	TT	CC	1947013798
SNP_P4_164074_49719	NW_004516742.1	Scaffold1568	49719	TT	CC	1947013800
SNP_P4_164075_52323	NW_004516742.1	Scaffold1568	52323	GG	AA	1947013802
SNP_P4_164076_54350	NW_004516742.1	Scaffold1568	54350	TT	AA	1947013803
SNP_P4_164077_54887	NW_004516742.1	Scaffold1568	54887	GG	AA	1947013805
SNP_P4_164078_55282	NW_004516742.1	Scaffold1568	55282	GG	CC	1947013807
SNP_P4_164079_66587	NW_004516742.1	Scaffold1568	66587	TT	AA	1947013809
SNP_P4_164080_66600	NW_004516742.1	Scaffold1568	66600	TT	AA	1947013811
SNP_P4_164081_66716	NW_004516742.1	Scaffold1568	66716	TT	AA	1947013813
SNP_P4_164082_66728	NW_004516742.1	Scaffold1568	66728	TT	AA	1947013815
SNP_P4_164083_70173	NW_004516742.1	Scaffold1568	70173	AA	TT	1947013817
SNP_P4_164084_70175	NW_004516742.1	Scaffold1568	70175	GG	AA	1947013819
SNP_P4_164085_70768	NW_004516742.1	Scaffold1568	70768	AA	TT	1947013821
SNP_P4_164086_70939	NW_004516742.1	Scaffold1568	70939	AA	GG	1947013823

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_164088_73494	NW_004516742.1	Scaffold1568	73494	GG	TT	1947013827
SNP_P4_164089_74481	NW_004516742.1	Scaffold1568	74481	TT	CC	1947013829
SNP_P4_164090_77684	NW_004516742.1	Scaffold1568	77684	TT	GG	1947013831
SNP_P4_164091_79343	NW_004516742.1	Scaffold1568	79343	GG	CC	1947013833
SNP_P4_164092_80053	NW_004516742.1	Scaffold1568	80053	GG	CC	1947013835
SNP_P4_164093_80149	NW_004516742.1	Scaffold1568	80149	TT	CC	1947013837
SNP_P4_164094_80257	NW_004516742.1	Scaffold1568	80257	CC	GG	1947013839
SNP_P4_164095_80595	NW_004516742.1	Scaffold1568	80595	GG	CC	1947013841
SNP_P4_164096_81378	NW_004516742.1	Scaffold1568	81378	GG	TT	1947013843
SNP_P4_164097_81392	NW_004516742.1	Scaffold1568	81392	CC	TT	1947013845
SNP_P4_164098_81815	NW_004516742.1	Scaffold1568	81815	GG	AA	1947013847
SNP_P4_164099_82223	NW_004516742.1	Scaffold1568	82223	TT	GG	1947013849
SNP_P4_164100_82246	NW_004516742.1	Scaffold1568	82246	AA	TT	1947013851
SNP_P4_164101_82550	NW_004516742.1	Scaffold1568	82550	AA	TT	1947013853
SNP_P4_164104_82833	NW_004516742.1	Scaffold1568	82833	AA	GG	1947013855
SNP_P4_164105_83153	NW_004516742.1	Scaffold1568	83153	TT	GG	1947013857
SNP_P4_164106_83190	NW_004516742.1	Scaffold1568	83190	AA	GG	1947013859
SNP_P4_164107_83218	NW_004516742.1	Scaffold1568	83218	CC	TT	1947013861
SNP_P4_164108_83232	NW_004516742.1	Scaffold1568	83232	CC	GG	1947013863
SNP_P4_164109_83266	NW_004516742.1	Scaffold1568	83266	GG	TT	1947013865
SNP_P4_164110_83281	NW_004516742.1	Scaffold1568	83281	GG	TT	1947013867
SNP_P4_164111_83523	NW_004516742.1	Scaffold1568	83523	TT	GG	1947013869
SNP_P4_164112_9538	NW_004516743.1	Scaffold1569	9538	TT	AA	1947013871
SNP_P4_164113_9699	NW_004516743.1	Scaffold1569	9699	CC	AA	1947013873
SNP_P4_164114_19584	NW_004516743.1	Scaffold1569	19584	AA	GG	1947013877
SNP_P4_164115_19611	NW_004516743.1	Scaffold1569	19611	AA	GG	1947013879
SNP_P4_164116_19620	NW_004516743.1	Scaffold1569	19620	CC	GG	1947013881
SNP_P4_164117_19628	NW_004516743.1	Scaffold1569	19628	CC	TT	1947013883
SNP_P4_164118_19634	NW_004516743.1	Scaffold1569	19634	CC	AA	1947013885
SNP_P4_164119_21630	NW_004516743.1	Scaffold1569	21630	TT	CC	1947013887
SNP_P4_164120_25539	NW_004516743.1	Scaffold1569	25539	CC	AA	1947013889
SNP_P4_164121_25545	NW_004516743.1	Scaffold1569	25545	GG	AA	1947013891
SNP_P4_164122_25655	NW_004516743.1	Scaffold1569	25655	TT	AA	1947013893
SNP_P4_164123_25866	NW_004516743.1	Scaffold1569	25866	CC	TT	1947013895
SNP_P4_164124_25899	NW_004516743.1	Scaffold1569	25899	AA	CC	1947013897
SNP_P4_164125_32401	NW_004516743.1	Scaffold1569	32401	AA	CC	1947013899
SNP_P4_164126_32457	NW_004516743.1	Scaffold1569	32457	CC	GG	1947013901
SNP_P4_164129_32774	NW_004516743.1	Scaffold1569	32774	AA	CC	1947013903
SNP_P4_164130_32866	NW_004516743.1	Scaffold1569	32866	AA	CC	1947013905
SNP_P4_164131_32885	NW_004516743.1	Scaffold1569	32885	AA	TT	1947013907
SNP_P4_164132_32929	NW_004516743.1	Scaffold1569	32929	AA	TT	1947013909

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_164135_33009	NW_004516743.1	Scaffold1569	33009	CC	TT	1947013913
SNP_P4_164136_33019	NW_004516743.1	Scaffold1569	33019	TT	CC	1947013915
SNP_P4_164137_33042	NW_004516743.1	Scaffold1569	33042	GG	TT	1947013917
SNP_P4_164138_33047	NW_004516743.1	Scaffold1569	33047	TT	CC	1947013919
SNP_P4_164140_4445	NW_004516745.1	Scaffold1572	4445	TT	CC	1947013921
SNP_P4_164141_4447	NW_004516745.1	Scaffold1572	4447	GG	AA	1947013923
SNP_P4_164142_6129	NW_004516745.1	Scaffold1572	6129	CC	GG	1947013925
SNP_P4_164143_6285	NW_004516745.1	Scaffold1572	6285	AA	CC	1947013926
SNP_P4_164144_6289	NW_004516745.1	Scaffold1572	6289	GG	AA	1947013928
SNP_P4_164145_6388	NW_004516745.1	Scaffold1572	6388	GG	AA	1947013930
SNP_P4_164146_6564	NW_004516745.1	Scaffold1572	6564	CC	AA	1947013932
SNP_P4_164147_6579	NW_004516745.1	Scaffold1572	6579	AA	GG	1947013934
SNP_P4_164148_6586	NW_004516745.1	Scaffold1572	6586	AA	CC	1947013936
SNP_P4_164149_6588	NW_004516745.1	Scaffold1572	6588	GG	AA	1947013938
SNP_P4_164150_6622	NW_004516745.1	Scaffold1572	6622	CC	GG	1947013940
SNP_P4_164151_151	NW_004516746.1	Scaffold1573	151	TT	CC	1947013942
SNP_P4_164152_1851	NW_004516746.1	Scaffold1573	1851	TT	CC	1947013944
SNP_P4_164153_2043	NW_004516746.1	Scaffold1573	2043	AA	GG	1947013946
SNP_P4_164154_2578	NW_004516746.1	Scaffold1573	2578	AA	TT	1947013948
SNP_P4_164155_2617	NW_004516746.1	Scaffold1573	2617	AA	TT	1947013950
SNP_P4_164156_7073	NW_004516747.1	Scaffold1574	7073	TT	CC	1947013952
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SNP_P4_164158_20808	NW_004516747.1	Scaffold1574	20808	GG	AA	1947013956
SNP_P4_164159_20809	NW_004516747.1	Scaffold1574	20809	GG	AA	1947013958
SNP_P4_164160_20833	NW_004516747.1	Scaffold1574	20833	TT	CC	1947013960
SNP_P4_164161_68795	NW_004516747.1	Scaffold1574	68795	CC	TT	1947013962
SNP_P4_164162_68815	NW_004516747.1	Scaffold1574	68815	GG	AA	1947013964
SNP_P4_164163_75559	NW_004516747.1	Scaffold1574	75559	AA	GG	1947013966
SNP_P4_164164_88832	NW_004516747.1	Scaffold1574	88832	TT	CC	1947013968
SNP_P4_164165_98891	NW_004516747.1	Scaffold1574	98891	TT	CC	1947013970
SNP_P4_164166_109537	NW_004516747.1	Scaffold1574	109537	GG	TT	1947013972
SNP_P4_164167_109540	NW_004516747.1	Scaffold1574	109540	TT	GG	1947013975
SNP_P4_164168_109679	NW_004516747.1	Scaffold1574	109679	CC	TT	1947013977
SNP_P4_164169_110172	NW_004516747.1	Scaffold1574	110172	TT	CC	1947013979
SNP_P4_164170_110180	NW_004516747.1	Scaffold1574	110180	AA	GG	1947013981
SNP_P4_164171_110827	NW_004516747.1	Scaffold1574	110827	AA	TT	1947013983
SNP_P4_164172_51219	NW_004516748.1	Scaffold1575	51219	CC	AA	1947013985
SNP_P4_164173_51224	NW_004516748.1	Scaffold1575	51224	GG	AA	1947013987
SNP_P4_164174_51228	NW_004516748.1	Scaffold1575	51228	CC	TT	1947013989
SNP_P4_164175_51239	NW_004516748.1	Scaffold1575	51239	CC	AA	1947013991
SNP_P4_164176_53241	NW_004516748.1	Scaffold1575	53241	TT	GG	1947013994

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_164177_83692	NW_004516748.1	Scaffold1575	83692	AA	GG	1947013996
SNP_P4_164178_83700	NW_004516748.1	Scaffold1575	83700	AA	TT	1947013998
SNP_P4_164179_90041	NW_004516748.1	Scaffold1575	90041	AA	CC	1947014000
SNP_P4_164180_90081	NW_004516748.1	Scaffold1575	90081	CC	TT	1947014002
SNP_P4_164181_90091	NW_004516748.1	Scaffold1575	90091	CC	TT	1947014004
SNP_P4_164182_123942	NW_004516748.1	Scaffold1575	123942	TT	CC	1947014006
SNP_P4_164183_142815	NW_004516748.1	Scaffold1575	142815	AA	GG	1947014008
SNP_P4_164184_189278	NW_004516748.1	Scaffold1575	189278	GG	AA	1947014011
SNP_P4_164186_3050	NW_004516751.1	Scaffold1578	3050	CC	TT	1947014013
SNP_P4_164187_4217	NW_004516751.1	Scaffold1578	4217	AA	GG	1947014015
SNP_P4_164188_17010	NW_004516751.1	Scaffold1578	17010	AA	GG	1947014017
SNP_P4_164189_17190	NW_004516751.1	Scaffold1578	17190	CC	TT	1947014019
SNP_P4_164190_18220	NW_004516751.1	Scaffold1578	18220	AA	TT	1947014021
SNP_P4_164191_33798	NW_004516751.1	Scaffold1578	33798	TT	CC	1947014023
SNP_P4_164192_33873	NW_004516751.1	Scaffold1578	33873	AA	GG	1947014025
SNP_P4_164193_41723	NW_004516751.1	Scaffold1578	41723	GG	TT	1947014027
SNP_P4_164194_41958	NW_004516751.1	Scaffold1578	41958	TT	GG	1947014029
SNP_P4_164196_46541	NW_004516751.1	Scaffold1578	46541	TT	GG	1947014031
SNP_P4_164197_46562	NW_004516751.1	Scaffold1578	46562	CC	AA	1947014033
SNP_P4_164198_59797	NW_004516751.1	Scaffold1578	59797	TT	CC	1947014036
SNP_P4_164199_61142	NW_004516751.1	Scaffold1578	61142	GG	AA	1947014038
SNP_P4_164200_63339	NW_004516751.1	Scaffold1578	63339	TT	AA	1947014040
SNP_P4_164201_71482	NW_004516751.1	Scaffold1578	71482	CC	TT	1947014042
SNP_P4_164202_73547	NW_004516751.1	Scaffold1578	73547	AA	TT	1947014044
SNP_P4_164203_73552	NW_004516751.1	Scaffold1578	73552	GG	CC	1947014046
SNP_P4_164205_76725	NW_004516751.1	Scaffold1578	76725	GG	AA	1947014048
SNP_P4_164207_77067	NW_004516751.1	Scaffold1578	77067	AA	GG	1947014050
SNP_P4_164208_77122	NW_004516751.1	Scaffold1578	77122	TT	AA	1947014052
SNP_P4_164209_77150	NW_004516751.1	Scaffold1578	77150	GG	TT	1947014054
SNP_P4_164210_77234	NW_004516751.1	Scaffold1578	77234	TT	AA	1947014056
SNP_P4_164212_77876	NW_004516751.1	Scaffold1578	77876	AA	GG	1947014058
SNP_P4_164213_78027	NW_004516751.1	Scaffold1578	78027	AA	GG	1947014060
SNP_P4_164214_78463	NW_004516751.1	Scaffold1578	78463	CC	TT	1947014062
SNP_P4_164215_78478	NW_004516751.1	Scaffold1578	78478	TT	CC	1947014064
SNP_P4_164216_78496	NW_004516751.1	Scaffold1578	78496	TT	AA	1947014066
SNP_P4_164217_79007	NW_004516751.1	Scaffold1578	79007	GG	TT	1947014068
SNP_P4_164219_80909	NW_004516751.1	Scaffold1578	80909	TT	CC	1947014070
SNP_P4_164220_85569	NW_004516751.1	Scaffold1578	85569	TT	CC	1947014072
SNP_P4_164221_85582	NW_004516751.1	Scaffold1578	85582	CC	TT	1947014074
SNP_P4_164222_85623	NW_004516751.1	Scaffold1578	85623	CC	AA	1947014076
SNP_P4_164223_86637	NW_004516751.1	Scaffold1578	86637	AA	GG	1947014079
SNP_P4_164224_86859	NW_004516751.1	Scaffold1578	86859	AA	GG	1947014081

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_164226_86906	NW_004516751.1	Scaffold1578	86906	CC	TT	1947014085
SNP_P4_164227_86920	NW_004516751.1	Scaffold1578	86920	AA	GG	1947014087
SNP_P4_164228_86938	NW_004516751.1	Scaffold1578	86938	AA	GG	1947014089
SNP_P4_164229_705	NW_004516752.1	Scaffold1579	705	AA	TT	1947014091
SNP_P4_164231_9028	NW_004516752.1	Scaffold1579	9028	TT	CC	1947014093
SNP_P4_164232_9179	NW_004516752.1	Scaffold1579	9179	TT	CC	1947014095
SNP_P4_164233_9191	NW_004516752.1	Scaffold1579	9191	TT	CC	1947014097
SNP_P4_164234_9297	NW_004516752.1	Scaffold1579	9297	TT	AA	1947014099
SNP_P4_164235_9299	NW_004516752.1	Scaffold1579	9299	CC	AA	1947014101
SNP_P4_164236_9339	NW_004516752.1	Scaffold1579	9339	TT	CC	1947014103
SNP_P4_164237_9343	NW_004516752.1	Scaffold1579	9343	AA	GG	1947014105
SNP_P4_164238_9348	NW_004516752.1	Scaffold1579	9348	TT	GG	1947014107
SNP_P4_164239_9442	NW_004516752.1	Scaffold1579	9442	CC	TT	1947014109
SNP_P4_164240_9508	NW_004516752.1	Scaffold1579	9508	CC	TT	1947014111
SNP_P4_164241_9521	NW_004516752.1	Scaffold1579	9521	CC	GG	1947014113
SNP_P4_164242_9572	NW_004516752.1	Scaffold1579	9572	AA	CC	1947014115
SNP_P4_164243_9692	NW_004516752.1	Scaffold1579	9692	GG	AA	1947014117
SNP_P4_164244_9703	NW_004516752.1	Scaffold1579	9703	GG	TT	1947014119
SNP_P4_164245_9726	NW_004516752.1	Scaffold1579	9726	AA	GG	1947014121
SNP_P4_164246_9727	NW_004516752.1	Scaffold1579	9727	AA	CC	1947014123
SNP_P4_164247_9764	NW_004516752.1	Scaffold1579	9764	AA	TT	1947014125
SNP_P4_164248_9793	NW_004516752.1	Scaffold1579	9793	TT	CC	1947014127
SNP_P4_164249_9894	NW_004516752.1	Scaffold1579	9894	AA	GG	1947014129
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SNP_P4_164251_17623	NW_004516752.1	Scaffold1579	17623	AA	GG	1947014133
SNP_P4_164252_17625	NW_004516752.1	Scaffold1579	17625	AA	TT	1947014135
SNP_P4_164253_17879	NW_004516752.1	Scaffold1579	17879	TT	CC	1947014137
SNP_P4_164254_18105	NW_004516752.1	Scaffold1579	18105	CC	TT	1947014139
SNP_P4_164256_19148	NW_004516752.1	Scaffold1579	19148	TT	AA	1947014141
SNP_P4_164257_35111	NW_004516752.1	Scaffold1579	35111	AA	TT	1947014143
SNP_P4_164259_35254	NW_004516752.1	Scaffold1579	35254	AA	GG	1947014145
SNP_P4_164260_35295	NW_004516752.1	Scaffold1579	35295	CC	TT	1947014147
SNP_P4_164261_35487	NW_004516752.1	Scaffold1579	35487	TT	AA	1947014149
SNP_P4_164262_35524	NW_004516752.1	Scaffold1579	35524	AA	TT	1947014151
SNP_P4_164263_35592	NW_004516752.1	Scaffold1579	35592	TT	CC	1947014153
SNP_P4_164264_52788	NW_004516752.1	Scaffold1579	52788	AA	GG	1947014155
SNP_P4_164265_52789	NW_004516752.1	Scaffold1579	52789	TT	GG	1947014157
SNP_P4_164266_56905	NW_004516752.1	Scaffold1579	56905	CC	TT	1947014159
SNP_P4_164267_57419	NW_004516752.1	Scaffold1579	57419	GG	AA	1947014161
SNP_P4_164268_57797	NW_004516752.1	Scaffold1579	57797	AA	GG	1947014163
SNP_P4_164270_63925	NW_004516752.1	Scaffold1579	63925	GG	TT	1947014165

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_164274_65172	NW_004516752.1	Scaffold1579	65172	TT	AA	1947014171
SNP_P4_164275_65187	NW_004516752.1	Scaffold1579	65187	CC	TT	1947014173
SNP_P4_164276_65194	NW_004516752.1	Scaffold1579	65194	CC	TT	1947014175
SNP_P4_164277_65196	NW_004516752.1	Scaffold1579	65196	GG	AA	1947014177
SNP_P4_164278_65343	NW_004516752.1	Scaffold1579	65343	TT	AA	1947014179
SNP_P4_164279_65395	NW_004516752.1	Scaffold1579	65395	CC	TT	1947014181
SNP_P4_164280_65477	NW_004516752.1	Scaffold1579	65477	TT	AA	1947014183
SNP_P4_164281_69353	NW_004516752.1	Scaffold1579	69353	GG	AA	1947014185
SNP_P4_164282_74446	NW_004516752.1	Scaffold1579	74446	AA	CC	1947014187
SNP_P4_164283_74466	NW_004516752.1	Scaffold1579	74466	AA	TT	1947014189
SNP_P4_164284_82828	NW_004516752.1	Scaffold1579	82828	CC	TT	1947014191
SNP_P4_164285_82872	NW_004516752.1	Scaffold1579	82872	GG	AA	1947014193
SNP_P4_164286_83106	NW_004516752.1	Scaffold1579	83106	AA	TT	1947014195
SNP_P4_164287_101664	NW_004516752.1	Scaffold1579	101664	CC	TT	1947014197
SNP_P4_164288_111344	NW_004516752.1	Scaffold1579	111344	AA	TT	1947014199
SNP_P4_164289_118205	NW_004516752.1	Scaffold1579	118205	AA	GG	1947014201
SNP_P4_164290_126723	NW_004516752.1	Scaffold1579	126723	TT	CC	1947014203
SNP_P4_164291_145222	NW_004516752.1	Scaffold1579	145222	TT	CC	1947014205
SNP_P4_164292_146277	NW_004516752.1	Scaffold1579	146277	CC	TT	1947014207
SNP_P4_164293_150696	NW_004516752.1	Scaffold1579	150696	CC	TT	1947014209
SNP_P4_164294_150871	NW_004516752.1	Scaffold1579	150871	TT	AA	1947014211
SNP_P4_164295_150881	NW_004516752.1	Scaffold1579	150881	TT	CC	1947014214
SNP_P4_164296_163962	NW_004516752.1	Scaffold1579	163962	TT	CC	1947014216
SNP_P4_164297_164808	NW_004516752.1	Scaffold1579	164808	CC	GG	1947014218
SNP_P4_164298_172962	NW_004516752.1	Scaffold1579	172962	AA	GG	1947014220
SNP_P4_164299_186951	NW_004516752.1	Scaffold1579	186951	TT	CC	1947014222
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SNP_P4_164301_187217	NW_004516752.1	Scaffold1579	187217	TT	GG	1947014225
SNP_P4_164302_187245	NW_004516752.1	Scaffold1579	187245	TT	GG	1947014227
SNP_P4_164303_192018	NW_004516752.1	Scaffold1579	192018	CC	TT	1947014229
SNP_P4_164304_194129	NW_004516752.1	Scaffold1579	194129	TT	CC	1947014231
SNP_P4_164305_194242	NW_004516752.1	Scaffold1579	194242	AA	CC	1947014233
SNP_P4_164306_194455	NW_004516752.1	Scaffold1579	194455	CC	TT	1947014235
SNP_P4_164307_194457	NW_004516752.1	Scaffold1579	194457	AA	CC	1947014237
SNP_P4_164308_194537	NW_004516752.1	Scaffold1579	194537	CC	GG	1947014239
SNP_P4_164309_198561	NW_004516752.1	Scaffold1579	198561	GG	AA	1947014241
SNP_P4_164310_202987	NW_004516752.1	Scaffold1579	202987	GG	CC	1947014243
SNP_P4_164311_203001	NW_004516752.1	Scaffold1579	203001	AA	TT	1947014245
SNP_P4_164312_203342	NW_004516752.1	Scaffold1579	203342	TT	CC	1947014247
SNP_P4_164313_203345	NW_004516752.1	Scaffold1579	203345	AA	CC	1947014249

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_164315_204020	NW_004516752.1	Scaffold1579	204020	CC	TT	1947014253
SNP_P4_164316_204117	NW_004516752.1	Scaffold1579	204117	AA	TT	1947014255
SNP_P4_164317_204509	NW_004516752.1	Scaffold1579	204509	GG	AA	1947014257
SNP_P4_164318_226214	NW_004516752.1	Scaffold1579	226214	TT	CC	1947014259
SNP_P4_164319_226259	NW_004516752.1	Scaffold1579	226259	TT	CC	1947014261
SNP_P4_164320_226512	NW_004516752.1	Scaffold1579	226512	TT	AA	1947014263
SNP_P4_164321_228342	NW_004516752.1	Scaffold1579	228342	GG	AA	1947014265
SNP_P4_164322_232589	NW_004516752.1	Scaffold1579	232589	CC	GG	1947014267
SNP_P4_164323_232671	NW_004516752.1	Scaffold1579	232671	TT	CC	1947014269
SNP_P4_164324_232808	NW_004516752.1	Scaffold1579	232808	AA	GG	1947014271
SNP_P4_164325_232819	NW_004516752.1	Scaffold1579	232819	AA	CC	1947014273
SNP_P4_164326_232820	NW_004516752.1	Scaffold1579	232820	AA	TT	1947014275
SNP_P4_164327_233206	NW_004516752.1	Scaffold1579	233206	AA	GG	1947014277
SNP_P4_164328_233211	NW_004516752.1	Scaffold1579	233211	AA	CC	1947014279
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SNP_P4_164330_233946	NW_004516752.1	Scaffold1579	233946	TT	CC	1947014283
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SNP_P4_164350_244620	NW_004516752.1	Scaffold1579	244620	AA	TT	1947014323
SNP_P4_164351_244790	NW_004516752.1	Scaffold1579	244790	TT	AA	1947014325
SNP_P4_164352_7207	NW_004516753.1	Scaffold1580	7207	AA	CC	1947014327
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SNP_P4_164354_7241	NW_004516753.1	Scaffold1580	7241	AA	CC	1947014331
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_164358_7714	NW_004516753.1	Scaffold1580	7714	AA	TT	1947014339
SNP_P4_164359_63963	NW_004516753.1	Scaffold1580	63963	CC	TT	1947014341
SNP_P4_164360_69840	NW_004516753.1	Scaffold1580	69840	AA	TT	1947014343
SNP_P4_164361_69874	NW_004516753.1	Scaffold1580	69874	TT	CC	1947014345
SNP_P4_164363_70138	NW_004516753.1	Scaffold1580	70138	GG	AA	1947014347
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SNP_P4_164365_70497	NW_004516753.1	Scaffold1580	70497	AA	CC	1947014351
SNP_P4_164366_70511	NW_004516753.1	Scaffold1580	70511	GG	AA	1947014353
SNP_P4_164367_155580	NW_004516753.1	Scaffold1580	155580	TT	CC	1947014355
SNP_P4_164368_168772	NW_004516753.1	Scaffold1580	168772	GG	AA	1947014357
SNP_P4_164369_169206	NW_004516753.1	Scaffold1580	169206	TT	GG	1947014359
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SNP_P4_164383_196163	NW_004516753.1	Scaffold1580	196163	TT	GG	1947014386
SNP_P4_164384_220299	NW_004516753.1	Scaffold1580	220299	AA	GG	1947014388
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SNP_P4_164390_314115	NW_004516753.1	Scaffold1580	314115	GG	AA	1947014394
SNP_P4_164391_361067	NW_004516753.1	Scaffold1580	361067	TT	CC	1947014396
SNP_P4_164392_361083	NW_004516753.1	Scaffold1580	361083	TT	CC	1947014398
SNP_P4_164393_361103	NW_004516753.1	Scaffold1580	361103	AA	TT	1947014400
SNP_P4_164394_361104	NW_004516753.1	Scaffold1580	361104	TT	CC	1947014402
SNP_P4_164395_395591	NW_004516753.1	Scaffold1580	395591	GG	TT	1947014404
SNP_P4_164396_397471	NW_004516753.1	Scaffold1580	397471	TT	GG	1947014406
SNP_P4_164397_397537	NW_004516753.1	Scaffold1580	397537	GG	TT	1947014408
SNP_P4_164398_412511	NW_004516753.1	Scaffold1580	412511	CC	TT	1947014410
SNP_P4_164399_447377	NW_004516753.1	Scaffold1580	447377	AA	CC	1947014412
SNP_P4_164400_472094	NW_004516753.1	Scaffold1580	472094	GG	AA	1947014413
SNP_P4_164405_472834	NW_004516753.1	Scaffold1580	472834	AA	TT	1947014415

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_164406_472915	NW_004516753.1	Scaffold1580	472915	CC	AA	1947014417
SNP_P4_164407_472917	NW_004516753.1	Scaffold1580	472917	AA	GG	1947014419
SNP_P4_164408_473072	NW_004516753.1	Scaffold1580	473072	TT	CC	1947014421
SNP_P4_164409_473112	NW_004516753.1	Scaffold1580	473112	AA	GG	1947014423
SNP_P4_164410_473120	NW_004516753.1	Scaffold1580	473120	GG	AA	1947014425
SNP_P4_164411_473123	NW_004516753.1	Scaffold1580	473123	AA	TT	1947014427
SNP_P4_164412_473150	NW_004516753.1	Scaffold1580	473150	TT	GG	1947014429
SNP_P4_164413_473221	NW_004516753.1	Scaffold1580	473221	CC	TT	1947014431
SNP_P4_164414_473223	NW_004516753.1	Scaffold1580	473223	CC	TT	1947014433
SNP_P4_164415_473331	NW_004516753.1	Scaffold1580	473331	CC	AA	1947014435
SNP_P4_164416_473356	NW_004516753.1	Scaffold1580	473356	CC	AA	1947014437
SNP_P4_164417_473412	NW_004516753.1	Scaffold1580	473412	AA	GG	1947014439
SNP_P4_164418_477635	NW_004516753.1	Scaffold1580	477635	CC	AA	1947014441
SNP_P4_164419_504806	NW_004516753.1	Scaffold1580	504806	AA	TT	1947014443
SNP_P4_164420_504891	NW_004516753.1	Scaffold1580	504891	CC	AA	1947014445
SNP_P4_164421_504949	NW_004516753.1	Scaffold1580	504949	CC	TT	1947014446
SNP_P4_164422_504952	NW_004516753.1	Scaffold1580	504952	AA	CC	1947014448
SNP_P4_164423_505307	NW_004516753.1	Scaffold1580	505307	AA	CC	1947014450
SNP_P4_164424_505320	NW_004516753.1	Scaffold1580	505320	AA	TT	1947014452
SNP_P4_164425_505400	NW_004516753.1	Scaffold1580	505400	CC	TT	1947014454
SNP_P4_164426_505416	NW_004516753.1	Scaffold1580	505416	AA	GG	1947014456
SNP_P4_164427_505578	NW_004516753.1	Scaffold1580	505578	AA	TT	1947014458
SNP_P4_164428_7731	NW_004516754.1	Scaffold1581	7731	GG	CC	1947014460
SNP_P4_164429_156	NW_004516755.1	Scaffold1585	156	GG	TT	1947014462
SNP_P4_164430_174	NW_004516755.1	Scaffold1585	174	CC	TT	1947014464
SNP_P4_164431_9790	NW_004516755.1	Scaffold1585	9790	TT	CC	1947014465
SNP_P4_164432_48417	NW_004516755.1	Scaffold1585	48417	AA	TT	1947014467
SNP_P4_164433_48421	NW_004516755.1	Scaffold1585	48421	CC	TT	1947014469
SNP_P4_164434_58019	NW_004516755.1	Scaffold1585	58019	AA	GG	1947014471
SNP_P4_164435_58020	NW_004516755.1	Scaffold1585	58020	TT	CC	1947014473
SNP_P4_164436_58032	NW_004516755.1	Scaffold1585	58032	CC	GG	1947014475
SNP_P4_164437_58035	NW_004516755.1	Scaffold1585	58035	TT	GG	1947014477
SNP_P4_164438_58074	NW_004516755.1	Scaffold1585	58074	AA	GG	1947014479
SNP_P4_164439_58139	NW_004516755.1	Scaffold1585	58139	TT	CC	1947014481
SNP_P4_164440_58342	NW_004516755.1	Scaffold1585	58342	CC	TT	1947014483
SNP_P4_164441_58357	NW_004516755.1	Scaffold1585	58357	TT	GG	1947014485
SNP_P4_164442_58362	NW_004516755.1	Scaffold1585	58362	GG	AA	1947014487
SNP_P4_164443_58466	NW_004516755.1	Scaffold1585	58466	GG	TT	1947014489
SNP_P4_164444_58562	NW_004516755.1	Scaffold1585	58562	GG	AA	1947014491
SNP_P4_164445_58577	NW_004516755.1	Scaffold1585	58577	TT	CC	1947014493
SNP_P4_164446_58774	NW_004516755.1	Scaffold1585	58774	AA	GG	1947014495
SNP_P4_164447_58785	NW_004516755.1	Scaffold1585	58785	AA	CC	1947014497

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_164448_58801	NW_004516755.1	Scaffold1585	58801	AA	GG	1947014499
SNP_P4_164449_58805	NW_004516755.1	Scaffold1585	58805	TT	CC	1947014501
SNP_P4_164450_58822	NW_004516755.1	Scaffold1585	58822	TT	GG	1947014503
SNP_P4_164451_59001	NW_004516755.1	Scaffold1585	59001	CC	TT	1947014505
SNP_P4_164452_61903	NW_004516755.1	Scaffold1585	61903	CC	TT	1947014507
SNP_P4_164453_62120	NW_004516755.1	Scaffold1585	62120	CC	AA	1947014509
SNP_P4_164454_62170	NW_004516755.1	Scaffold1585	62170	TT	CC	1947014511
SNP_P4_164455_62176	NW_004516755.1	Scaffold1585	62176	TT	CC	1947014513
SNP_P4_164456_62370	NW_004516755.1	Scaffold1585	62370	CC	AA	1947014515
SNP_P4_164457_62433	NW_004516755.1	Scaffold1585	62433	TT	CC	1947014517
SNP_P4_164459_147789	NW_004516755.1	Scaffold1585	147789	GG	AA	1947014519
SNP_P4_164460_147791	NW_004516755.1	Scaffold1585	147791	AA	GG	1947014521
SNP_P4_164461_148205	NW_004516755.1	Scaffold1585	148205	TT	CC	1947014523
SNP_P4_164462_152342	NW_004516755.1	Scaffold1585	152342	CC	AA	1947014525
SNP_P4_164463_152364	NW_004516755.1	Scaffold1585	152364	CC	AA	1947014527
SNP_P4_164464_152589	NW_004516755.1	Scaffold1585	152589	GG	AA	1947014529
SNP_P4_164465_152804	NW_004516755.1	Scaffold1585	152804	AA	GG	1947014531
SNP_P4_164466_152824	NW_004516755.1	Scaffold1585	152824	GG	AA	1947014534
SNP_P4_164467_154285	NW_004516755.1	Scaffold1585	154285	GG	AA	1947014536
SNP_P4_164468_179349	NW_004516755.1	Scaffold1585	179349	GG	CC	1947014538
SNP_P4_164469_179353	NW_004516755.1	Scaffold1585	179353	TT	CC	1947014540
SNP_P4_164470_179357	NW_004516755.1	Scaffold1585	179357	AA	TT	1947014542
SNP_P4_164472_179450	NW_004516755.1	Scaffold1585	179450	TT	CC	1947014544
SNP_P4_164473_179463	NW_004516755.1	Scaffold1585	179463	GG	AA	1947014546
SNP_P4_164474_179466	NW_004516755.1	Scaffold1585	179466	CC	AA	1947014549
SNP_P4_164475_180239	NW_004516755.1	Scaffold1585	180239	AA	TT	1947014551
SNP_P4_164476_180270	NW_004516755.1	Scaffold1585	180270	TT	AA	1947014553
SNP_P4_164477_183197	NW_004516755.1	Scaffold1585	183197	GG	TT	1947014555
SNP_P4_164478_183200	NW_004516755.1	Scaffold1585	183200	TT	CC	1947014557
SNP_P4_164479_183206	NW_004516755.1	Scaffold1585	183206	CC	AA	1947014559
SNP_P4_164480_1821	NW_004516756.1	Scaffold1586	1821	AA	TT	1947014561
SNP_P4_164482_2154	NW_004516756.1	Scaffold1586	2154	GG	AA	1947014563
SNP_P4_164483_2199	NW_004516756.1	Scaffold1586	2199	CC	GG	1947014565
SNP_P4_164484_2205	NW_004516756.1	Scaffold1586	2205	CC	GG	1947014567
SNP_P4_164485_4011	NW_004516756.1	Scaffold1586	4011	AA	CC	1947014569
SNP_P4_164486_7392	NW_004516756.1	Scaffold1586	7392	TT	CC	1947014571
SNP_P4_164487_11439	NW_004516756.1	Scaffold1586	11439	TT	AA	1947014574
SNP_P4_164488_13151	NW_004516756.1	Scaffold1586	13151	GG	AA	1947014576
SNP_P4_164489_21137	NW_004516756.1	Scaffold1586	21137	AA	GG	1947014578
SNP_P4_164490_4792	NW_004516758.1	Scaffold1588	4792	AA	GG	1947014580
SNP_P4_164491_6075	NW_004516758.1	Scaffold1588	6075	GG	TT	1947014582
SNP_P4_164492_6560	NW_004516758.1	Scaffold1588	6560	AA	GG	1947014583

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_164493_6569	NW_004516758.1	Scaffold1588	6569	AA	GG	1947014585
SNP_P4_164494_8364	NW_004516759.1	Scaffold1590	8364	CC	TT	1947014587
SNP_P4_164495_8373	NW_004516759.1	Scaffold1590	8373	AA	CC	1947014589
SNP_P4_164496_8470	NW_004516759.1	Scaffold1590	8470	CC	TT	1947014591
SNP_P4_164497_8487	NW_004516759.1	Scaffold1590	8487	CC	TT	1947014593
SNP_P4_164498_8517	NW_004516759.1	Scaffold1590	8517	CC	AA	1947014595
SNP_P4_164499_8633	NW_004516759.1	Scaffold1590	8633	CC	AA	1947014597
SNP_P4_164500_8726	NW_004516759.1	Scaffold1590	8726	TT	CC	1947014599
SNP_P4_164501_8835	NW_004516759.1	Scaffold1590	8835	TT	CC	1947014601
SNP_P4_164502_12414	NW_004516759.1	Scaffold1590	12414	TT	CC	1947014603
SNP_P4_164503_12434	NW_004516759.1	Scaffold1590	12434	CC	TT	1947014605
SNP_P4_164504_12622	NW_004516759.1	Scaffold1590	12622	AA	GG	1947014607
SNP_P4_164505_12886	NW_004516759.1	Scaffold1590	12886	TT	GG	1947014609
SNP_P4_164506_3857	NW_004516762.1	Scaffold1599	3857	TT	GG	1947014611
SNP_P4_164507_4146	NW_004516762.1	Scaffold1599	4146	AA	GG	1947014613
SNP_P4_164508_721	NW_004516763.1	Scaffold1600	721	GG	TT	1947014615
SNP_P4_164509_722	NW_004516763.1	Scaffold1600	722	TT	GG	1947014617
SNP_P4_164510_1210	NW_004516763.1	Scaffold1600	1210	CC	GG	1947014619
SNP_P4_164511_7651	NW_004516764.1	Scaffold1603	7651	AA	GG	1947014621
SNP_P4_164512_7686	NW_004516764.1	Scaffold1603	7686	AA	GG	1947014623
SNP_P4_164513_7726	NW_004516764.1	Scaffold1603	7726	TT	CC	1947014625
SNP_P4_164514_7729	NW_004516764.1	Scaffold1603	7729	TT	GG	1947014627
SNP_P4_164515_7744	NW_004516764.1	Scaffold1603	7744	TT	CC	1947014629
SNP_P4_164516_18529	NW_004516764.1	Scaffold1603	18529	TT	CC	1947014631
SNP_P4_164517_18535	NW_004516764.1	Scaffold1603	18535	GG	TT	1947014633
SNP_P4_164518_22698	NW_004516764.1	Scaffold1603	22698	AA	GG	1947014635
SNP_P4_164519_44153	NW_004516764.1	Scaffold1603	44153	AA	GG	1947014637
SNP_P4_164520_44188	NW_004516764.1	Scaffold1603	44188	AA	GG	1947014639
SNP_P4_164521_46646	NW_004516764.1	Scaffold1603	46646	TT	CC	1947014641
SNP_P4_164522_46703	NW_004516764.1	Scaffold1603	46703	TT	CC	1947014644
SNP_P4_164523_46849	NW_004516764.1	Scaffold1603	46849	AA	CC	1947014646
SNP_P4_164524_46864	NW_004516764.1	Scaffold1603	46864	TT	AA	1947014648
SNP_P4_164525_1505	NW_004516765.1	Scaffold1606	1505	TT	AA	1947014650
SNP_P4_164526_1691	NW_004516765.1	Scaffold1606	1691	AA	TT	1947014652
SNP_P4_164527_315	NW_004516766.1	Scaffold1607	315	GG	AA	1947014654
SNP_P4_164528_391	NW_004516766.1	Scaffold1607	391	TT	CC	1947014656
SNP_P4_164529_3504	NW_004516766.1	Scaffold1607	3504	TT	CC	1947014658
SNP_P4_164530_5311	NW_004516766.1	Scaffold1607	5311	CC	AA	1947014660
SNP_P4_164531_14084	NW_004516766.1	Scaffold1607	14084	AA	GG	1947014662
SNP_P4_164532_14171	NW_004516766.1	Scaffold1607	14171	AA	TT	1947014664
SNP_P4_164533_14323	NW_004516766.1	Scaffold1607	14323	GG	TT	1947014665
SNP_P4_164534_14540	NW_004516766.1	Scaffold1607	14540	GG	AA	1947014667

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_164537_41644	NW_004516766.1	Scaffold1607	41644	TT	CC	1947014671
SNP_P4_164538_41665	NW_004516766.1	Scaffold1607	41665	TT	CC	1947014673
SNP_P4_164539_41680	NW_004516766.1	Scaffold1607	41680	TT	CC	1947014675
SNP_P4_164540_42086	NW_004516766.1	Scaffold1607	42086	CC	TT	1947014677
SNP_P4_164541_47212	NW_004516766.1	Scaffold1607	47212	TT	GG	1947014679
SNP_P4_164542_47267	NW_004516766.1	Scaffold1607	47267	AA	CC	1947014681
SNP_P4_164543_47430	NW_004516766.1	Scaffold1607	47430	TT	AA	1947014683
SNP_P4_164544_60100	NW_004516766.1	Scaffold1607	60100	TT	GG	1947014685
SNP_P4_164545_69369	NW_004516766.1	Scaffold1607	69369	AA	GG	1947014687
SNP_P4_164546_73695	NW_004516766.1	Scaffold1607	73695	GG	AA	1947014689
SNP_P4_164547_83438	NW_004516766.1	Scaffold1607	83438	TT	CC	1947014691
SNP_P4_164548_91483	NW_004516766.1	Scaffold1607	91483	CC	TT	1947014693
SNP_P4_164549_99010	NW_004516766.1	Scaffold1607	99010	GG	AA	1947014695
SNP_P4_164550_99041	NW_004516766.1	Scaffold1607	99041	CC	TT	1947014697
SNP_P4_164551_99188	NW_004516766.1	Scaffold1607	99188	TT	CC	1947014699
SNP_P4_164552_99407	NW_004516766.1	Scaffold1607	99407	TT	CC	1947014701
SNP_P4_164553_99760	NW_004516766.1	Scaffold1607	99760	AA	GG	1947014703
SNP_P4_164554_116790	NW_004516766.1	Scaffold1607	116790	TT	CC	1947014705
SNP_P4_164555_116848	NW_004516766.1	Scaffold1607	116848	TT	AA	1947014707
SNP_P4_164557_117126	NW_004516766.1	Scaffold1607	117126	GG	CC	1947014709
SNP_P4_164558_117128	NW_004516766.1	Scaffold1607	117128	GG	TT	1947014711
SNP_P4_164559_117170	NW_004516766.1	Scaffold1607	117170	TT	AA	1947014713
SNP_P4_164560_119464	NW_004516766.1	Scaffold1607	119464	GG	AA	1947014715
SNP_P4_164561_119480	NW_004516766.1	Scaffold1607	119480	GG	AA	1947014717
SNP_P4_164562_119539	NW_004516766.1	Scaffold1607	119539	TT	AA	1947014719
SNP_P4_164563_119639	NW_004516766.1	Scaffold1607	119639	AA	GG	1947014721
SNP_P4_164564_119717	NW_004516766.1	Scaffold1607	119717	AA	TT	1947014723
SNP_P4_164565_119813	NW_004516766.1	Scaffold1607	119813	TT	AA	1947014725
SNP_P4_164566_119882	NW_004516766.1	Scaffold1607	119882	TT	GG	1947014727
SNP_P4_164567_119888	NW_004516766.1	Scaffold1607	119888	CC	TT	1947014729
SNP_P4_164568_119895	NW_004516766.1	Scaffold1607	119895	GG	AA	1947014731
SNP_P4_164569_119896	NW_004516766.1	Scaffold1607	119896	CC	AA	1947014733
SNP_P4_164570_119928	NW_004516766.1	Scaffold1607	119928	TT	CC	1947014736
SNP_P4_164571_119938	NW_004516766.1	Scaffold1607	119938	AA	CC	1947014738
SNP_P4_164573_131361	NW_004516766.1	Scaffold1607	131361	TT	CC	1947014740
SNP_P4_164574_136057	NW_004516766.1	Scaffold1607	136057	GG	AA	1947014742
SNP_P4_164575_136065	NW_004516766.1	Scaffold1607	136065	CC	TT	1947014744
SNP_P4_164576_136074	NW_004516766.1	Scaffold1607	136074	AA	CC	1947014746
SNP_P4_164578_657	NW_004516769.1	Scaffold1611	657	GG	AA	1947014748
SNP_P4_164579_2839	NW_004516770.1	Scaffold1612	2839	AA	GG	1947014750
SNP_P4_164580_1398	NW_004516771.1	Scaffold1613	1398	TT	AA	1947014752

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_164582_10570	NW_004516771.1	Scaffold1613	10570	CC	TT	1947014756
SNP_P4_164583_10630	NW_004516771.1	Scaffold1613	10630	GG	AA	1947014758
SNP_P4_164584_10633	NW_004516771.1	Scaffold1613	10633	AA	TT	1947014760
SNP_P4_164585_10726	NW_004516771.1	Scaffold1613	10726	TT	CC	1947014762
SNP_P4_164587_54699	NW_004516771.1	Scaffold1613	54699	AA	CC	1947014764
SNP_P4_164588_65293	NW_004516771.1	Scaffold1613	65293	AA	CC	1947014767
SNP_P4_164589_65426	NW_004516771.1	Scaffold1613	65426	AA	GG	1947014769
SNP_P4_164590_65455	NW_004516771.1	Scaffold1613	65455	TT	CC	1947014771
SNP_P4_164591_65476	NW_004516771.1	Scaffold1613	65476	AA	GG	1947014773
SNP_P4_164592_88689	NW_004516771.1	Scaffold1613	88689	TT	AA	1947014775
SNP_P4_164593_98123	NW_004516771.1	Scaffold1613	98123	CC	TT	1947014777
SNP_P4_164594_98142	NW_004516771.1	Scaffold1613	98142	CC	AA	1947014779
SNP_P4_164595_98146	NW_004516771.1	Scaffold1613	98146	AA	CC	1947014781
SNP_P4_164596_98293	NW_004516771.1	Scaffold1613	98293	TT	GG	1947014783
SNP_P4_164597_98421	NW_004516771.1	Scaffold1613	98421	AA	TT	1947014785
SNP_P4_164599_98448	NW_004516771.1	Scaffold1613	98448	TT	CC	1947014787
SNP_P4_164600_98456	NW_004516771.1	Scaffold1613	98456	TT	CC	1947014789
SNP_P4_164601_98474	NW_004516771.1	Scaffold1613	98474	GG	AA	1947014791
SNP_P4_164603_107869	NW_004516771.1	Scaffold1613	107869	AA	GG	1947014793
SNP_P4_164604_113276	NW_004516771.1	Scaffold1613	113276	CC	TT	1947014795
SNP_P4_164605_113636	NW_004516771.1	Scaffold1613	113636	TT	CC	1947014797
SNP_P4_164606_115948	NW_004516771.1	Scaffold1613	115948	TT	AA	1947014799
SNP_P4_164607_116032	NW_004516771.1	Scaffold1613	116032	CC	TT	1947014801
SNP_P4_164608_116913	NW_004516771.1	Scaffold1613	116913	AA	GG	1947014803
SNP_P4_164609_117037	NW_004516771.1	Scaffold1613	117037	GG	TT	1947014805
SNP_P4_164610_117299	NW_004516771.1	Scaffold1613	117299	CC	TT	1947014807
SNP_P4_164611_117313	NW_004516771.1	Scaffold1613	117313	AA	GG	1947014809
SNP_P4_164612_117373	NW_004516771.1	Scaffold1613	117373	AA	GG	1947014811
SNP_P4_164613_117436	NW_004516771.1	Scaffold1613	117436	CC	AA	1947014813
SNP_P4_164614_5153	NW_004516772.1	Scaffold1614	5153	CC	GG	1947014815
SNP_P4_164615_5295	NW_004516772.1	Scaffold1614	5295	AA	TT	1947014817
SNP_P4_164616_5436	NW_004516772.1	Scaffold1614	5436	AA	GG	1947014819
SNP_P4_164617_6566	NW_004516772.1	Scaffold1614	6566	TT	GG	1947014821
SNP_P4_164618_6807	NW_004516772.1	Scaffold1614	6807	TT	GG	1947014823
SNP_P4_164619_7613	NW_004516772.1	Scaffold1614	7613	TT	AA	1947014825
SNP_P4_164620_7663	NW_004516772.1	Scaffold1614	7663	CC	AA	1947014827
SNP_P4_164621_7714	NW_004516772.1	Scaffold1614	7714	TT	AA	1947014829
SNP_P4_164622_8043	NW_004516772.1	Scaffold1614	8043	GG	AA	1947014831
SNP_P4_164623_8066	NW_004516772.1	Scaffold1614	8066	AA	CC	1947014833
SNP_P4_164624_8113	NW_004516772.1	Scaffold1614	8113	AA	CC	1947014835
SNP_P4_164626_8344	NW_004516772.1	Scaffold1614	8344	GG	TT	1947014837

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_164627_8697	NW_004516772.1	Scaffold1614	8697	TT	CC	1947014839
SNP_P4_164628_9462	NW_004516772.1	Scaffold1614	9462	AA	CC	1947014841
SNP_P4_164629_9888	NW_004516772.1	Scaffold1614	9888	AA	GG	1947014843
SNP_P4_164630_13490	NW_004516772.1	Scaffold1614	13490	TT	AA	1947014845
SNP_P4_164631_13669	NW_004516772.1	Scaffold1614	13669	CC	TT	1947014847
SNP_P4_164632_13695	NW_004516772.1	Scaffold1614	13695	AA	TT	1947014849
SNP_P4_164633_13706	NW_004516772.1	Scaffold1614	13706	TT	GG	1947014851
SNP_P4_164634_13724	NW_004516772.1	Scaffold1614	13724	TT	GG	1947014853
SNP_P4_164635_13732	NW_004516772.1	Scaffold1614	13732	CC	TT	1947014855
SNP_P4_164636_13878	NW_004516772.1	Scaffold1614	13878	GG	CC	1947014857
SNP_P4_164637_13916	NW_004516772.1	Scaffold1614	13916	AA	GG	1947014859
SNP_P4_164638_13933	NW_004516772.1	Scaffold1614	13933	CC	TT	1947014861
SNP_P4_164639_14056	NW_004516772.1	Scaffold1614	14056	GG	CC	1947014863
SNP_P4_164641_14103	NW_004516772.1	Scaffold1614	14103	TT	AA	1947014865
SNP_P4_164642_14189	NW_004516772.1	Scaffold1614	14189	AA	CC	1947014867
SNP_P4_164643_14195	NW_004516772.1	Scaffold1614	14195	GG	CC	1947014869
SNP_P4_164644_14198	NW_004516772.1	Scaffold1614	14198	TT	CC	1947014871
SNP_P4_164645_14253	NW_004516772.1	Scaffold1614	14253	CC	GG	1947014873
SNP_P4_164646_14410	NW_004516772.1	Scaffold1614	14410	AA	TT	1947014875
SNP_P4_164647_45771	NW_004516772.1	Scaffold1614	45771	CC	AA	1947014877
SNP_P4_164648_45794	NW_004516772.1	Scaffold1614	45794	CC	TT	1947014879
SNP_P4_164649_49089	NW_004516772.1	Scaffold1614	49089	CC	AA	1947014881
SNP_P4_164650_58251	NW_004516772.1	Scaffold1614	58251	TT	GG	1947014883
SNP_P4_164651_58253	NW_004516772.1	Scaffold1614	58253	GG	TT	1947014885
SNP_P4_164652_62087	NW_004516772.1	Scaffold1614	62087	TT	CC	1947014887
SNP_P4_164653_66054	NW_004516772.1	Scaffold1614	66054	TT	CC	1947014889
SNP_P4_164654_66132	NW_004516772.1	Scaffold1614	66132	TT	CC	1947014891
SNP_P4_164655_66393	NW_004516772.1	Scaffold1614	66393	GG	CC	1947014893
SNP_P4_164656_66416	NW_004516772.1	Scaffold1614	66416	TT	CC	1947014895
SNP_P4_164657_66535	NW_004516772.1	Scaffold1614	66535	AA	TT	1947014897
SNP_P4_164658_70093	NW_004516772.1	Scaffold1614	70093	AA	GG	1947014899
SNP_P4_164659_73933	NW_004516772.1	Scaffold1614	73933	TT	CC	1947014901
SNP_P4_164660_90291	NW_004516772.1	Scaffold1614	90291	AA	GG	1947014903
SNP_P4_164661_90324	NW_004516772.1	Scaffold1614	90324	TT	AA	1947014905
SNP_P4_164662_95586	NW_004516772.1	Scaffold1614	95586	TT	CC	1947014907
SNP_P4_164663_95855	NW_004516772.1	Scaffold1614	95855	CC	TT	1947014909
SNP_P4_164664_96569	NW_004516772.1	Scaffold1614	96569	CC	TT	1947014911
SNP_P4_164665_99702	NW_004516772.1	Scaffold1614	99702	CC	TT	1947014913
SNP_P4_164666_100165	NW_004516772.1	Scaffold1614	100165	AA	GG	1947014915
SNP_P4_164667_100446	NW_004516772.1	Scaffold1614	100446	CC	AA	1947014917
SNP_P4_164668_102574	NW_004516772.1	Scaffold1614	102574	GG	AA	1947014919
SNP_P4_164669_102663	NW_004516772.1	Scaffold1614	102663	TT	GG	1947014920

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_164670_103646	NW_004516772.1	Scaffold1614	103646	GG	TT	1947014921
SNP_P4_164671_104578	NW_004516772.1	Scaffold1614	104578	CC	TT	1947014922
SNP_P4_164672_104583	NW_004516772.1	Scaffold1614	104583	CC	TT	1947014923
SNP_P4_164673_104589	NW_004516772.1	Scaffold1614	104589	GG	CC	1947014924
SNP_P4_164674_104596	NW_004516772.1	Scaffold1614	104596	CC	TT	1947014926
SNP_P4_164675_104600	NW_004516772.1	Scaffold1614	104600	CC	TT	1947014928
SNP_P4_164676_111066	NW_004516772.1	Scaffold1614	111066	TT	CC	1947014930
SNP_P4_164677_111164	NW_004516772.1	Scaffold1614	111164	GG	AA	1947014932
SNP_P4_164678_112105	NW_004516772.1	Scaffold1614	112105	GG	AA	1947014934
SNP_P4_164679_112879	NW_004516772.1	Scaffold1614	112879	TT	AA	1947014936
SNP_P4_164680_113023	NW_004516772.1	Scaffold1614	113023	AA	TT	1947014938
SNP_P4_164681_113229	NW_004516772.1	Scaffold1614	113229	TT	CC	1947014940
SNP_P4_164682_113859	NW_004516772.1	Scaffold1614	113859	TT	CC	1947014942
SNP_P4_164683_113930	NW_004516772.1	Scaffold1614	113930	AA	TT	1947014944
SNP_P4_164684_113936	NW_004516772.1	Scaffold1614	113936	AA	TT	1947014946
SNP_P4_164685_113937	NW_004516772.1	Scaffold1614	113937	TT	CC	1947014948
SNP_P4_164686_114003	NW_004516772.1	Scaffold1614	114003	TT	CC	1947014950
SNP_P4_164687_114019	NW_004516772.1	Scaffold1614	114019	CC	TT	1947014952
SNP_P4_164688_114044	NW_004516772.1	Scaffold1614	114044	TT	CC	1947014954
SNP_P4_164689_114287	NW_004516772.1	Scaffold1614	114287	GG	AA	1947014956
SNP_P4_164690_114288	NW_004516772.1	Scaffold1614	114288	AA	CC	1947014958
SNP_P4_164691_114756	NW_004516772.1	Scaffold1614	114756	AA	TT	1947014960
SNP_P4_164692_114805	NW_004516772.1	Scaffold1614	114805	GG	AA	1947014962
SNP_P4_164693_114810	NW_004516772.1	Scaffold1614	114810	GG	AA	1947014964
SNP_P4_164694_114818	NW_004516772.1	Scaffold1614	114818	AA	TT	1947014966
SNP_P4_164695_114883	NW_004516772.1	Scaffold1614	114883	TT	CC	1947014968
SNP_P4_164696_114900	NW_004516772.1	Scaffold1614	114900	TT	CC	1947014970
SNP_P4_164697_114913	NW_004516772.1	Scaffold1614	114913	GG	AA	1947014972
SNP_P4_164698_114920	NW_004516772.1	Scaffold1614	114920	TT	AA	1947014974
SNP_P4_164699_114921	NW_004516772.1	Scaffold1614	114921	AA	TT	1947014976
SNP_P4_164700_114926	NW_004516772.1	Scaffold1614	114926	TT	GG	1947014978
SNP_P4_164701_114977	NW_004516772.1	Scaffold1614	114977	AA	CC	1947014980
SNP_P4_164702_115028	NW_004516772.1	Scaffold1614	115028	CC	TT	1947014982
SNP_P4_164703_115120	NW_004516772.1	Scaffold1614	115120	CC	GG	1947014984
SNP_P4_164704_115131	NW_004516772.1	Scaffold1614	115131	CC	TT	1947014986
SNP_P4_164705_115283	NW_004516772.1	Scaffold1614	115283	GG	AA	1947014988
SNP_P4_164706_115627	NW_004516772.1	Scaffold1614	115627	GG	AA	1947014990
SNP_P4_164707_115749	NW_004516772.1	Scaffold1614	115749	TT	CC	1947014992
SNP_P4_164708_115750	NW_004516772.1	Scaffold1614	115750	GG	AA	1947014994
SNP_P4_164709_115760	NW_004516772.1	Scaffold1614	115760	GG	AA	1947014996
SNP_P4_164710_115773	NW_004516772.1	Scaffold1614	115773	GG	CC	1947014998
SNP_P4_164711_115791	NW_004516772.1	Scaffold1614	115791	CC	TT	1947015000

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_164713_116111	NW_004516772.1	Scaffold1614	116111	TT	CC	1947015004
SNP_P4_164714_116264	NW_004516772.1	Scaffold1614	116264	TT	AA	1947015006
SNP_P4_164715_116740	NW_004516772.1	Scaffold1614	116740	AA	TT	1947015008
SNP_P4_164716_116898	NW_004516772.1	Scaffold1614	116898	TT	AA	1947015010
SNP_P4_164717_116917	NW_004516772.1	Scaffold1614	116917	CC	GG	1947015012
SNP_P4_164718_117002	NW_004516772.1	Scaffold1614	117002	GG	AA	1947015014
SNP_P4_164719_119989	NW_004516772.1	Scaffold1614	119989	TT	GG	1947015016
SNP_P4_164720_120875	NW_004516772.1	Scaffold1614	120875	GG	CC	1947015018
SNP_P4_164721_120964	NW_004516772.1	Scaffold1614	120964	TT	AA	1947015020
SNP_P4_164722_121033	NW_004516772.1	Scaffold1614	121033	CC	GG	1947015022
SNP_P4_164723_121043	NW_004516772.1	Scaffold1614	121043	CC	TT	1947015024
SNP_P4_164724_124167	NW_004516772.1	Scaffold1614	124167	AA	CC	1947015026
SNP_P4_164725_124660	NW_004516772.1	Scaffold1614	124660	GG	TT	1947015028
SNP_P4_164727_132680	NW_004516772.1	Scaffold1614	132680	AA	GG	1947015030
SNP_P4_164728_132916	NW_004516772.1	Scaffold1614	132916	CC	AA	1947015032
SNP_P4_164729_133098	NW_004516772.1	Scaffold1614	133098	TT	AA	1947015034
SNP_P4_164730_133121	NW_004516772.1	Scaffold1614	133121	AA	GG	1947015036
SNP_P4_164731_133251	NW_004516772.1	Scaffold1614	133251	TT	GG	1947015038
SNP_P4_164732_134404	NW_004516772.1	Scaffold1614	134404	AA	TT	1947015040
SNP_P4_164733_135517	NW_004516772.1	Scaffold1614	135517	GG	AA	1947015042
SNP_P4_164734_135560	NW_004516772.1	Scaffold1614	135560	CC	TT	1947015044
SNP_P4_164735_137114	NW_004516772.1	Scaffold1614	137114	CC	GG	1947015046
SNP_P4_164736_138848	NW_004516772.1	Scaffold1614	138848	GG	TT	1947015048
SNP_P4_164737_140546	NW_004516772.1	Scaffold1614	140546	GG	TT	1947015050
SNP_P4_164738_140867	NW_004516772.1	Scaffold1614	140867	CC	TT	1947015052
SNP_P4_164739_141715	NW_004516772.1	Scaffold1614	141715	GG	AA	1947015054
SNP_P4_164740_142008	NW_004516772.1	Scaffold1614	142008	TT	GG	1947015056
SNP_P4_164741_145930	NW_004516772.1	Scaffold1614	145930	AA	TT	1947015058
SNP_P4_164742_146533	NW_004516772.1	Scaffold1614	146533	CC	TT	1947015060
SNP_P4_164743_148170	NW_004516772.1	Scaffold1614	148170	AA	TT	1947015062
SNP_P4_164744_148233	NW_004516772.1	Scaffold1614	148233	AA	GG	1947015064
SNP_P4_164745_148237	NW_004516772.1	Scaffold1614	148237	AA	GG	1947015066
SNP_P4_164746_148238	NW_004516772.1	Scaffold1614	148238	CC	GG	1947015068
SNP_P4_164747_151826	NW_004516772.1	Scaffold1614	151826	GG	AA	1947015070
SNP_P4_164748_151892	NW_004516772.1	Scaffold1614	151892	AA	TT	1947015072
SNP_P4_164749_152159	NW_004516772.1	Scaffold1614	152159	AA	TT	1947015074
SNP_P4_164750_152936	NW_004516772.1	Scaffold1614	152936	CC	TT	1947015076
SNP_P4_164751_153481	NW_004516772.1	Scaffold1614	153481	CC	TT	1947015078
SNP_P4_164752_154090	NW_004516772.1	Scaffold1614	154090	TT	CC	1947015080
SNP_P4_164753_154092	NW_004516772.1	Scaffold1614	154092	AA	CC	1947015082
SNP_P4_164754_154173	NW_004516772.1	Scaffold1614	154173	GG	CC	1947015084

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_164756_154402	NW_004516772.1	Scaffold1614	154402	CC	TT	1947015088
SNP_P4_164757_155028	NW_004516772.1	Scaffold1614	155028	GG	TT	1947015090
SNP_P4_164758_155686	NW_004516772.1	Scaffold1614	155686	TT	CC	1947015092
SNP_P4_164759_157135	NW_004516772.1	Scaffold1614	157135	GG	CC	1947015094
SNP_P4_164760_158187	NW_004516772.1	Scaffold1614	158187	CC	GG	1947015096
SNP_P4_164761_158255	NW_004516772.1	Scaffold1614	158255	AA	GG	1947015098
SNP_P4_164762_159655	NW_004516772.1	Scaffold1614	159655	AA	CC	1947015100
SNP_P4_164763_160277	NW_004516772.1	Scaffold1614	160277	TT	CC	1947015102
SNP_P4_164764_161453	NW_004516772.1	Scaffold1614	161453	AA	GG	1947015104
SNP_P4_164765_161706	NW_004516772.1	Scaffold1614	161706	AA	CC	1947015106
SNP_P4_164766_162051	NW_004516772.1	Scaffold1614	162051	CC	GG	1947015108
SNP_P4_164767_162298	NW_004516772.1	Scaffold1614	162298	CC	GG	1947015110
SNP_P4_164768_162315	NW_004516772.1	Scaffold1614	162315	AA	CC	1947015112
SNP_P4_164769_163795	NW_004516772.1	Scaffold1614	163795	GG	TT	1947015114
SNP_P4_164770_163848	NW_004516772.1	Scaffold1614	163848	AA	GG	1947015116
SNP_P4_164771_163859	NW_004516772.1	Scaffold1614	163859	GG	AA	1947015118
SNP_P4_164772_163872	NW_004516772.1	Scaffold1614	163872	GG	AA	1947015120
SNP_P4_164773_163894	NW_004516772.1	Scaffold1614	163894	GG	AA	1947015122
SNP_P4_164774_163924	NW_004516772.1	Scaffold1614	163924	TT	CC	1947015124
SNP_P4_164775_163926	NW_004516772.1	Scaffold1614	163926	GG	AA	1947015127
SNP_P4_164776_164141	NW_004516772.1	Scaffold1614	164141	CC	TT	1947015129
SNP_P4_164777_164145	NW_004516772.1	Scaffold1614	164145	AA	GG	1947015131
SNP_P4_164778_164153	NW_004516772.1	Scaffold1614	164153	CC	GG	1947015133
SNP_P4_164779_164156	NW_004516772.1	Scaffold1614	164156	AA	TT	1947015135
SNP_P4_164780_164157	NW_004516772.1	Scaffold1614	164157	CC	AA	1947015137
SNP_P4_164781_164277	NW_004516772.1	Scaffold1614	164277	AA	GG	1947015139
SNP_P4_164782_164282	NW_004516772.1	Scaffold1614	164282	TT	GG	1947015141
SNP_P4_164783_164427	NW_004516772.1	Scaffold1614	164427	TT	GG	1947015143
SNP_P4_164785_164494	NW_004516772.1	Scaffold1614	164494	GG	AA	1947015146
SNP_P4_164786_164504	NW_004516772.1	Scaffold1614	164504	CC	TT	1947015148
SNP_P4_164787_167131	NW_004516772.1	Scaffold1614	167131	GG	CC	1947015150
SNP_P4_164788_167342	NW_004516772.1	Scaffold1614	167342	GG	TT	1947015152
SNP_P4_164789_168729	NW_004516772.1	Scaffold1614	168729	TT	CC	1947015154
SNP_P4_164790_168858	NW_004516772.1	Scaffold1614	168858	GG	CC	1947015156
SNP_P4_164791_169135	NW_004516772.1	Scaffold1614	169135	AA	CC	1947015158
SNP_P4_164792_184308	NW_004516772.1	Scaffold1614	184308	AA	CC	1947015160
SNP_P4_164793_184890	NW_004516772.1	Scaffold1614	184890	GG	CC	1947015162
SNP_P4_164794_184898	NW_004516772.1	Scaffold1614	184898	TT	CC	1947015164
SNP_P4_164795_186861	NW_004516772.1	Scaffold1614	186861	CC	AA	1947015166
SNP_P4_164796_186870	NW_004516772.1	Scaffold1614	186870	CC	GG	1947015168
SNP_P4_164797_187728	NW_004516772.1	Scaffold1614	187728	AA	GG	1947015170

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_164799_190866	NW_004516772.1	Scaffold1614	190866	TT	AA	1947015174
SNP_P4_164801_192873	NW_004516772.1	Scaffold1614	192873	GG	TT	1947015176
SNP_P4_164802_192882	NW_004516772.1	Scaffold1614	192882	GG	AA	1947015178
SNP_P4_164803_193028	NW_004516772.1	Scaffold1614	193028	CC	TT	1947015180
SNP_P4_164804_193075	NW_004516772.1	Scaffold1614	193075	GG	AA	1947015182
SNP_P4_164805_193428	NW_004516772.1	Scaffold1614	193428	TT	CC	1947015184
SNP_P4_164806_194351	NW_004516772.1	Scaffold1614	194351	AA	TT	1947015186
SNP_P4_164807_637	NW_004516773.1	Scaffold1615	637	TT	CC	1947015188
SNP_P4_164808_649	NW_004516773.1	Scaffold1615	649	GG	TT	1947015190
SNP_P4_164810_430	NW_004516775.1	Scaffold1620	430	TT	GG	1947015192
SNP_P4_164811_516	NW_004516775.1	Scaffold1620	516	TT	CC	1947015194
SNP_P4_164812_810	NW_004516775.1	Scaffold1620	810	TT	GG	1947015196
SNP_P4_164813_1163	NW_004516775.1	Scaffold1620	1163	GG	AA	1947015198
SNP_P4_164814_1228	NW_004516775.1	Scaffold1620	1228	GG	AA	1947015200
SNP_P4_164815_1251	NW_004516775.1	Scaffold1620	1251	AA	TT	1947015202
SNP_P4_164817_4623	NW_004516777.1	Scaffold1623	4623	TT	CC	1947015204
SNP_P4_164818_14045	NW_004516777.1	Scaffold1623	14045	GG	TT	1947015206
SNP_P4_164819_14088	NW_004516777.1	Scaffold1623	14088	AA	GG	1947015208
SNP_P4_164820_14370	NW_004516777.1	Scaffold1623	14370	CC	AA	1947015210
SNP_P4_164821_16743	NW_004516777.1	Scaffold1623	16743	AA	GG	1947015212
SNP_P4_164822_5505	NW_004516779.1	Scaffold1626	5505	AA	GG	1947015214
SNP_P4_164823_14738	NW_004516779.1	Scaffold1626	14738	TT	CC	1947015216
SNP_P4_164824_14739	NW_004516779.1	Scaffold1626	14739	GG	AA	1947015218
SNP_P4_164825_14742	NW_004516779.1	Scaffold1626	14742	GG	AA	1947015220
SNP_P4_164826_31246	NW_004516779.1	Scaffold1626	31246	AA	GG	1947015222
SNP_P4_164827_31465	NW_004516779.1	Scaffold1626	31465	GG	AA	1947015224
SNP_P4_164828_31484	NW_004516779.1	Scaffold1626	31484	TT	GG	1947015226
SNP_P4_164829_31539	NW_004516779.1	Scaffold1626	31539	AA	CC	1947015228
SNP_P4_164830_32092	NW_004516779.1	Scaffold1626	32092	GG	AA	1947015230
SNP_P4_164831_32207	NW_004516779.1	Scaffold1626	32207	AA	GG	1947015232
SNP_P4_164832_32244	NW_004516779.1	Scaffold1626	32244	CC	TT	1947015234
SNP_P4_164833_32260	NW_004516779.1	Scaffold1626	32260	AA	CC	1947015236
SNP_P4_164834_32455	NW_004516779.1	Scaffold1626	32455	CC	TT	1947015238
SNP_P4_164835_36329	NW_004516779.1	Scaffold1626	36329	GG	AA	1947015240
SNP_P4_164836_37201	NW_004516779.1	Scaffold1626	37201	AA	GG	1947015242
SNP_P4_164837_76926	NW_004516779.1	Scaffold1626	76926	TT	CC	1947015244
SNP_P4_164838_108438	NW_004516779.1	Scaffold1626	108438	AA	CC	1947015246
SNP_P4_164839_108691	NW_004516779.1	Scaffold1626	108691	TT	GG	1947015248
SNP_P4_164840_124921	NW_004516779.1	Scaffold1626	124921	GG	AA	1947015250
SNP_P4_164841_124965	NW_004516779.1	Scaffold1626	124965	TT	CC	1947015252
SNP_P4_164842_125626	NW_004516779.1	Scaffold1626	125626	AA	CC	1947015254

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_164843_125644	NW_004516779.1	Scaffold1626	125644	GG	TT	1947015256
SNP_P4_164844_126832	NW_004516779.1	Scaffold1626	126832	TT	CC	1947015258
SNP_P4_164845_126855	NW_004516779.1	Scaffold1626	126855	AA	CC	1947015260
SNP_P4_164846_127379	NW_004516779.1	Scaffold1626	127379	GG	AA	1947015262
SNP_P4_164847_128015	NW_004516779.1	Scaffold1626	128015	AA	TT	1947015264
SNP_P4_164851_11950	NW_004516781.1	Scaffold1630	11950	TT	CC	1947015266
SNP_P4_164852_12314	NW_004516781.1	Scaffold1630	12314	CC	TT	1947015268
SNP_P4_164853_13359	NW_004516781.1	Scaffold1630	13359	AA	GG	1947015270
SNP_P4_164854_13361	NW_004516781.1	Scaffold1630	13361	AA	CC	1947015272
SNP_P4_164855_13474	NW_004516781.1	Scaffold1630	13474	TT	AA	1947015274
SNP_P4_164856_13548	NW_004516781.1	Scaffold1630	13548	AA	TT	1947015276
SNP_P4_164857_13555	NW_004516781.1	Scaffold1630	13555	GG	AA	1947015277
SNP_P4_164858_13576	NW_004516781.1	Scaffold1630	13576	GG	CC	1947015279
SNP_P4_164859_20341	NW_004516781.1	Scaffold1630	20341	CC	AA	1947015281
SNP_P4_164860_20399	NW_004516781.1	Scaffold1630	20399	GG	AA	1947015283
SNP_P4_164861_26180	NW_004516781.1	Scaffold1630	26180	AA	GG	1947015285
SNP_P4_164862_30205	NW_004516781.1	Scaffold1630	30205	AA	GG	1947015287
SNP_P4_164863_30235	NW_004516781.1	Scaffold1630	30235	AA	CC	1947015289
SNP_P4_164864_30252	NW_004516781.1	Scaffold1630	30252	AA	TT	1947015291
SNP_P4_164865_30264	NW_004516781.1	Scaffold1630	30264	CC	TT	1947015293
SNP_P4_164866_30269	NW_004516781.1	Scaffold1630	30269	TT	CC	1947015295
SNP_P4_164867_30284	NW_004516781.1	Scaffold1630	30284	GG	CC	1947015297
SNP_P4_164868_30352	NW_004516781.1	Scaffold1630	30352	AA	GG	1947015299
SNP_P4_164869_30432	NW_004516781.1	Scaffold1630	30432	AA	GG	1947015301
SNP_P4_164870_30439	NW_004516781.1	Scaffold1630	30439	CC	AA	1947015303
SNP_P4_164871_30546	NW_004516781.1	Scaffold1630	30546	TT	CC	1947015305
SNP_P4_164872_30550	NW_004516781.1	Scaffold1630	30550	AA	TT	1947015307
SNP_P4_164873_35798	NW_004516781.1	Scaffold1630	35798	TT	CC	1947015309
SNP_P4_164874_37040	NW_004516781.1	Scaffold1630	37040	GG	AA	1947015310
SNP_P4_164875_37113	NW_004516781.1	Scaffold1630	37113	CC	TT	1947015312
SNP_P4_164876_37343	NW_004516781.1	Scaffold1630	37343	GG	CC	1947015314
SNP_P4_164877_37493	NW_004516781.1	Scaffold1630	37493	AA	TT	1947015316
SNP_P4_164878_37606	NW_004516781.1	Scaffold1630	37606	TT	CC	1947015318
SNP_P4_164879_38377	NW_004516781.1	Scaffold1630	38377	TT	AA	1947015320
SNP_P4_164880_40245	NW_004516781.1	Scaffold1630	40245	AA	TT	1947015322
SNP_P4_164881_44047	NW_004516781.1	Scaffold1630	44047	GG	CC	1947015324
SNP_P4_164882_44048	NW_004516781.1	Scaffold1630	44048	TT	CC	1947015326
SNP_P4_164883_44092	NW_004516781.1	Scaffold1630	44092	AA	TT	1947015328
SNP_P4_164884_44317	NW_004516781.1	Scaffold1630	44317	CC	TT	1947015330
SNP_P4_164885_45357	NW_004516781.1	Scaffold1630	45357	TT	CC	1947015332
SNP_P4_164886_57261	NW_004516781.1	Scaffold1630	57261	CC	AA	1947015334
SNP_P4_164887_57274	NW_004516781.1	Scaffold1630	57274	GG	TT	1947015336

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_164889_57327	NW_004516781.1	Scaffold1630	57327	AA	GG	1947015340
SNP_P4_164890_81274	NW_004516781.1	Scaffold1630	81274	TT	CC	1947015342
SNP_P4_164891_91431	NW_004516781.1	Scaffold1630	91431	TT	CC	1947015344
SNP_P4_164892_91437	NW_004516781.1	Scaffold1630	91437	CC	TT	1947015346
SNP_P4_164893_91440	NW_004516781.1	Scaffold1630	91440	CC	TT	1947015348
SNP_P4_164894_91443	NW_004516781.1	Scaffold1630	91443	GG	AA	1947015350
SNP_P4_164895_91448	NW_004516781.1	Scaffold1630	91448	TT	GG	1947015352
SNP_P4_164896_93302	NW_004516781.1	Scaffold1630	93302	AA	TT	1947015354
SNP_P4_164897_93305	NW_004516781.1	Scaffold1630	93305	TT	CC	1947015356
SNP_P4_164898_93311	NW_004516781.1	Scaffold1630	93311	AA	GG	1947015358
SNP_P4_164899_93312	NW_004516781.1	Scaffold1630	93312	CC	TT	1947015360
SNP_P4_164900_96749	NW_004516781.1	Scaffold1630	96749	AA	GG	1947015362
SNP_P4_164901_96750	NW_004516781.1	Scaffold1630	96750	AA	CC	1947015364
SNP_P4_164902_96760	NW_004516781.1	Scaffold1630	96760	CC	AA	1947015366
SNP_P4_164903_104852	NW_004516781.1	Scaffold1630	104852	TT	GG	1947015368
SNP_P4_164904_106690	NW_004516781.1	Scaffold1630	106690	CC	TT	1947015370
SNP_P4_164905_106692	NW_004516781.1	Scaffold1630	106692	GG	AA	1947015372
SNP_P4_164906_106701	NW_004516781.1	Scaffold1630	106701	AA	TT	1947015374
SNP_P4_164907_106712	NW_004516781.1	Scaffold1630	106712	AA	TT	1947015376
SNP_P4_164908_106736	NW_004516781.1	Scaffold1630	106736	CC	AA	1947015378
SNP_P4_164909_106750	NW_004516781.1	Scaffold1630	106750	CC	AA	1947015380
SNP_P4_164910_106811	NW_004516781.1	Scaffold1630	106811	GG	AA	1947015382
SNP_P4_164911_106812	NW_004516781.1	Scaffold1630	106812	GG	AA	1947015384
SNP_P4_164912_106827	NW_004516781.1	Scaffold1630	106827	CC	TT	1947015386
SNP_P4_164913_106838	NW_004516781.1	Scaffold1630	106838	TT	GG	1947015388
SNP_P4_164914_106906	NW_004516781.1	Scaffold1630	106906	AA	CC	1947015390
SNP_P4_164915_107337	NW_004516781.1	Scaffold1630	107337	AA	TT	1947015392
SNP_P4_164916_107341	NW_004516781.1	Scaffold1630	107341	GG	TT	1947015394
SNP_P4_164917_107343	NW_004516781.1	Scaffold1630	107343	GG	CC	1947015396
SNP_P4_164918_107351	NW_004516781.1	Scaffold1630	107351	TT	GG	1947015398
SNP_P4_164919_107356	NW_004516781.1	Scaffold1630	107356	TT	AA	1947015400
SNP_P4_164920_107407	NW_004516781.1	Scaffold1630	107407	TT	CC	1947015402
SNP_P4_164921_107412	NW_004516781.1	Scaffold1630	107412	TT	AA	1947015404
SNP_P4_164922_107414	NW_004516781.1	Scaffold1630	107414	AA	TT	1947015406
SNP_P4_164923_107416	NW_004516781.1	Scaffold1630	107416	AA	GG	1947015408
SNP_P4_164924_107427	NW_004516781.1	Scaffold1630	107427	TT	AA	1947015410
SNP_P4_164925_107430	NW_004516781.1	Scaffold1630	107430	GG	CC	1947015412
SNP_P4_164926_107815	NW_004516781.1	Scaffold1630	107815	AA	TT	1947015414
SNP_P4_164927_109462	NW_004516781.1	Scaffold1630	109462	TT	CC	1947015416
SNP_P4_164928_109633	NW_004516781.1	Scaffold1630	109633	GG	TT	1947015418
SNP_P4_164929_109641	NW_004516781.1	Scaffold1630	109641	TT	AA	1947015420

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_164931_109947	NW_004516781.1	Scaffold1630	109947	AA	GG	1947015424
SNP_P4_164932_110346	NW_004516781.1	Scaffold1630	110346	TT	AA	1947015426
SNP_P4_164933_113259	NW_004516781.1	Scaffold1630	113259	AA	GG	1947015428
SNP_P4_164934_120895	NW_004516781.1	Scaffold1630	120895	GG	AA	1947015430
SNP_P4_164935_121027	NW_004516781.1	Scaffold1630	121027	CC	GG	1947015432
SNP_P4_164936_121099	NW_004516781.1	Scaffold1630	121099	TT	CC	1947015434
SNP_P4_164937_125959	NW_004516781.1	Scaffold1630	125959	AA	GG	1947015437
SNP_P4_164938_125980	NW_004516781.1	Scaffold1630	125980	AA	CC	1947015439
SNP_P4_164939_135140	NW_004516781.1	Scaffold1630	135140	CC	TT	1947015441
SNP_P4_164940_135187	NW_004516781.1	Scaffold1630	135187	TT	AA	1947015443
SNP_P4_164941_136355	NW_004516781.1	Scaffold1630	136355	GG	TT	1947015445
SNP_P4_164942_136763	NW_004516781.1	Scaffold1630	136763	GG	CC	1947015447
SNP_P4_164943_136771	NW_004516781.1	Scaffold1630	136771	TT	CC	1947015449
SNP_P4_164944_144455	NW_004516781.1	Scaffold1630	144455	CC	TT	1947015451
SNP_P4_164945_144579	NW_004516781.1	Scaffold1630	144579	CC	AA	1947015453
SNP_P4_164946_157534	NW_004516781.1	Scaffold1630	157534	AA	GG	1947015455
SNP_P4_164947_157568	NW_004516781.1	Scaffold1630	157568	GG	TT	1947015457
SNP_P4_164948_157904	NW_004516781.1	Scaffold1630	157904	AA	CC	1947015459
SNP_P4_164949_157936	NW_004516781.1	Scaffold1630	157936	AA	TT	1947015461
SNP_P4_164950_158055	NW_004516781.1	Scaffold1630	158055	TT	AA	1947015463
SNP_P4_164951_159093	NW_004516781.1	Scaffold1630	159093	AA	GG	1947015465
SNP_P4_164952_160115	NW_004516781.1	Scaffold1630	160115	TT	GG	1947015467
SNP_P4_164953_177737	NW_004516781.1	Scaffold1630	177737	CC	TT	1947015469
SNP_P4_164954_185746	NW_004516781.1	Scaffold1630	185746	TT	CC	1947015471
SNP_P4_164955_2219	NW_004516782.1	Scaffold1631	2219	TT	AA	1947015473
SNP_P4_164957_45334	NW_004516782.1	Scaffold1631	45334	TT	CC	1947015475
SNP_P4_164958_70433	NW_004516782.1	Scaffold1631	70433	GG	TT	1947015477
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SNP_P4_164960_119627	NW_004516782.1	Scaffold1631	119627	TT	GG	1947015481
SNP_P4_164961_121146	NW_004516782.1	Scaffold1631	121146	GG	AA	1947015483
SNP_P4_164962_121159	NW_004516782.1	Scaffold1631	121159	AA	CC	1947015485
SNP_P4_164963_121342	NW_004516782.1	Scaffold1631	121342	TT	CC	1947015487
SNP_P4_164964_121402	NW_004516782.1	Scaffold1631	121402	CC	TT	1947015489
SNP_P4_164965_121469	NW_004516782.1	Scaffold1631	121469	GG	TT	1947015491
SNP_P4_164966_145362	NW_004516782.1	Scaffold1631	145362	GG	AA	1947015493
SNP_P4_164967_156802	NW_004516782.1	Scaffold1631	156802	TT	CC	1947015495
SNP_P4_164968_170074	NW_004516782.1	Scaffold1631	170074	GG	AA	1947015497
SNP_P4_164969_170292	NW_004516782.1	Scaffold1631	170292	TT	CC	1947015499
SNP_P4_164970_175754	NW_004516782.1	Scaffold1631	175754	TT	CC	1947015501
SNP_P4_164971_209129	NW_004516782.1	Scaffold1631	209129	AA	GG	1947015503
SNP_P4_164972_230258	NW_004516782.1	Scaffold1631	230258	TT	CC	1947015505

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_164974_240839	NW_004516782.1	Scaffold1631	240839	TT	AA	1947015509
SNP_P4_164975_2049	NW_004516783.1	Scaffold1632	2049	TT	CC	1947015511
SNP_P4_164978_19110	NW_004516783.1	Scaffold1632	19110	AA	TT	1947015513
SNP_P4_164979_19135	NW_004516783.1	Scaffold1632	19135	AA	GG	1947015515
SNP_P4_164981_26487	NW_004516783.1	Scaffold1632	26487	TT	CC	1947015517
SNP_P4_164982_29630	NW_004516783.1	Scaffold1632	29630	AA	GG	1947015519
SNP_P4_164983_50796	NW_004516783.1	Scaffold1632	50796	GG	AA	1947015521
SNP_P4_164984_69514	NW_004516783.1	Scaffold1632	69514	TT	CC	1947015523
SNP_P4_164985_82826	NW_004516783.1	Scaffold1632	82826	AA	GG	1947015525
SNP_P4_164986_97736	NW_004516783.1	Scaffold1632	97736	TT	CC	1947015527
SNP_P4_164987_8684	NW_004516784.1	Scaffold1633	8684	TT	CC	1947015529
SNP_P4_164988_10122	NW_004516784.1	Scaffold1633	10122	TT	AA	1947015531
SNP_P4_164990_15935	NW_004516784.1	Scaffold1633	15935	CC	GG	1947015533
SNP_P4_164991_61351	NW_004516784.1	Scaffold1633	61351	CC	AA	1947015535
SNP_P4_164992_61774	NW_004516784.1	Scaffold1633	61774	GG	AA	1947015536
SNP_P4_164993_61866	NW_004516784.1	Scaffold1633	61866	GG	AA	1947015537
SNP_P4_164994_62124	NW_004516784.1	Scaffold1633	62124	AA	GG	1947015538
SNP_P4_164995_62187	NW_004516784.1	Scaffold1633	62187	TT	AA	1947015539
SNP_P4_164996_62189	NW_004516784.1	Scaffold1633	62189	TT	CC	1947015540
SNP_P4_164997_62233	NW_004516784.1	Scaffold1633	62233	TT	CC	1947015542
SNP_P4_164998_68673	NW_004516784.1	Scaffold1633	68673	AA	GG	1947015544
SNP_P4_164999_73192	NW_004516784.1	Scaffold1633	73192	GG	AA	1947015546
SNP_P4_165000_75213	NW_004516784.1	Scaffold1633	75213	AA	GG	1947015548
SNP_P4_165001_93422	NW_004516784.1	Scaffold1633	93422	TT	GG	1947015550
SNP_P4_165002_93423	NW_004516784.1	Scaffold1633	93423	AA	CC	1947015552
SNP_P4_165003_116288	NW_004516784.1	Scaffold1633	116288	CC	GG	1947015554
SNP_P4_165004_121876	NW_004516784.1	Scaffold1633	121876	TT	CC	1947015556
SNP_P4_165005_122049	NW_004516784.1	Scaffold1633	122049	CC	AA	1947015558
SNP_P4_165006_157506	NW_004516784.1	Scaffold1633	157506	CC	TT	1947015560
SNP_P4_165007_157579	NW_004516784.1	Scaffold1633	157579	AA	GG	1947015562
SNP_P4_165008_172851	NW_004516784.1	Scaffold1633	172851	TT	CC	1947015564
SNP_P4_165009_795	NW_004516785.1	Scaffold1634	795	AA	GG	1947015566
SNP_P4_165010_1259	NW_004516785.1	Scaffold1634	1259	CC	TT	1947015568
SNP_P4_165011_7572	NW_004516785.1	Scaffold1634	7572	TT	CC	1947015570
SNP_P4_165012_8585	NW_004516785.1	Scaffold1634	8585	CC	AA	1947015572
SNP_P4_165013_9495	NW_004516785.1	Scaffold1634	9495	AA	TT	1947015574
SNP_P4_165014_10302	NW_004516785.1	Scaffold1634	10302	AA	CC	1947015576
SNP_P4_165015_10521	NW_004516785.1	Scaffold1634	10521	TT	GG	1947015579
SNP_P4_165016_15447	NW_004516785.1	Scaffold1634	15447	TT	CC	1947015581
SNP_P4_165017_18780	NW_004516785.1	Scaffold1634	18780	TT	CC	1947015583
SNP_P4_165018_18994	NW_004516785.1	Scaffold1634	18994	CC	TT	1947015585

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_165021_20803	NW_004516785.1	Scaffold1634	20803	GG	TT	1947015589
SNP_P4_165022_20967	NW_004516785.1	Scaffold1634	20967	CC	TT	1947015591
SNP_P4_165023_22002	NW_004516785.1	Scaffold1634	22002	GG	CC	1947015593
SNP_P4_165024_23557	NW_004516785.1	Scaffold1634	23557	CC	TT	1947015595
SNP_P4_165025_34500	NW_004516785.1	Scaffold1634	34500	GG	CC	1947015597
SNP_P4_165026_34903	NW_004516785.1	Scaffold1634	34903	GG	AA	1947015599
SNP_P4_165027_8512	NW_004516786.1	Scaffold1635	8512	AA	CC	1947015601
SNP_P4_165028_20312	NW_004516786.1	Scaffold1635	20312	TT	CC	1947015603
SNP_P4_165029_47685	NW_004516786.1	Scaffold1635	47685	CC	AA	1947015605
SNP_P4_165030_67687	NW_004516786.1	Scaffold1635	67687	CC	TT	1947015608
SNP_P4_165031_71853	NW_004516786.1	Scaffold1635	71853	GG	TT	1947015610
SNP_P4_165032_72076	NW_004516786.1	Scaffold1635	72076	AA	GG	1947015612
SNP_P4_165033_72086	NW_004516786.1	Scaffold1635	72086	AA	TT	1947015614
SNP_P4_165034_72471	NW_004516786.1	Scaffold1635	72471	CC	TT	1947015616
SNP_P4_165035_74104	NW_004516786.1	Scaffold1635	74104	GG	AA	1947015618
SNP_P4_165037_74294	NW_004516786.1	Scaffold1635	74294	AA	CC	1947015620
SNP_P4_165038_74816	NW_004516786.1	Scaffold1635	74816	TT	CC	1947015622
SNP_P4_165039_75133	NW_004516786.1	Scaffold1635	75133	TT	CC	1947015624
SNP_P4_165040_75222	NW_004516786.1	Scaffold1635	75222	CC	TT	1947015626
SNP_P4_165041_75548	NW_004516786.1	Scaffold1635	75548	CC	TT	1947015628
SNP_P4_165042_75730	NW_004516786.1	Scaffold1635	75730	GG	TT	1947015630
SNP_P4_165043_97976	NW_004516786.1	Scaffold1635	97976	GG	AA	1947015632
SNP_P4_165044_98041	NW_004516786.1	Scaffold1635	98041	CC	TT	1947015634
SNP_P4_165045_98042	NW_004516786.1	Scaffold1635	98042	AA	TT	1947015636
SNP_P4_165046_98321	NW_004516786.1	Scaffold1635	98321	GG	AA	1947015638
SNP_P4_165047_99050	NW_004516786.1	Scaffold1635	99050	GG	AA	1947015640
SNP_P4_165048_105304	NW_004516786.1	Scaffold1635	105304	GG	AA	1947015643
SNP_P4_165049_131096	NW_004516786.1	Scaffold1635	131096	AA	CC	1947015645
SNP_P4_165050_131484	NW_004516786.1	Scaffold1635	131484	GG	AA	1947015647
SNP_P4_165051_131494	NW_004516786.1	Scaffold1635	131494	AA	TT	1947015649
SNP_P4_165052_131496	NW_004516786.1	Scaffold1635	131496	GG	CC	1947015651
SNP_P4_165053_131503	NW_004516786.1	Scaffold1635	131503	TT	AA	1947015653
SNP_P4_165054_131509	NW_004516786.1	Scaffold1635	131509	CC	TT	1947015655
SNP_P4_165055_131514	NW_004516786.1	Scaffold1635	131514	GG	TT	1947015657
SNP_P4_165056_131543	NW_004516786.1	Scaffold1635	131543	AA	TT	1947015659
SNP_P4_165057_131560	NW_004516786.1	Scaffold1635	131560	CC	GG	1947015661
SNP_P4_165058_131571	NW_004516786.1	Scaffold1635	131571	TT	CC	1947015663
SNP_P4_165059_131590	NW_004516786.1	Scaffold1635	131590	AA	CC	1947015665
SNP_P4_165060_131627	NW_004516786.1	Scaffold1635	131627	TT	CC	1947015667
SNP_P4_165061_131629	NW_004516786.1	Scaffold1635	131629	GG	TT	1947015669
SNP_P4_165062_131691	NW_004516786.1	Scaffold1635	131691	TT	AA	1947015671

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_165063_131703	NW_004516786.1	Scaffold1635	131703	TT	CC	1947015673
SNP_P4_165064_131710	NW_004516786.1	Scaffold1635	131710	AA	CC	1947015675
SNP_P4_165065_131760	NW_004516786.1	Scaffold1635	131760	AA	CC	1947015677
SNP_P4_165066_131782	NW_004516786.1	Scaffold1635	131782	GG	CC	1947015679
SNP_P4_165067_133236	NW_004516786.1	Scaffold1635	133236	TT	AA	1947015681
SNP_P4_165068_133237	NW_004516786.1	Scaffold1635	133237	CC	AA	1947015683
SNP_P4_165069_133239	NW_004516786.1	Scaffold1635	133239	CC	AA	1947015685
SNP_P4_165070_133247	NW_004516786.1	Scaffold1635	133247	CC	TT	1947015687
SNP_P4_165071_133264	NW_004516786.1	Scaffold1635	133264	GG	TT	1947015689
SNP_P4_165072_134104	NW_004516786.1	Scaffold1635	134104	AA	CC	1947015691
SNP_P4_165073_147386	NW_004516786.1	Scaffold1635	147386	AA	CC	1947015693
SNP_P4_165074_81	NW_004516787.1	Scaffold1637	81	CC	TT	1947015695
SNP_P4_165075_1243	NW_004516787.1	Scaffold1637	1243	AA	GG	1947015697
SNP_P4_165076_723	NW_004516788.1	Scaffold1638	723	AA	CC	1947015699
SNP_P4_165077_9915	NW_004516788.1	Scaffold1638	9915	AA	TT	1947015701
SNP_P4_165078_9916	NW_004516788.1	Scaffold1638	9916	TT	AA	1947015704
SNP_P4_165079_10235	NW_004516788.1	Scaffold1638	10235	AA	GG	1947015706
SNP_P4_165080_12130	NW_004516788.1	Scaffold1638	12130	CC	TT	1947015708
SNP_P4_165082_24105	NW_004516788.1	Scaffold1638	24105	GG	AA	1947015710
SNP_P4_165083_24168	NW_004516788.1	Scaffold1638	24168	TT	CC	1947015712
SNP_P4_165084_24210	NW_004516788.1	Scaffold1638	24210	GG	AA	1947015714
SNP_P4_165085_32356	NW_004516788.1	Scaffold1638	32356	CC	TT	1947015716
SNP_P4_165086_46227	NW_004516788.1	Scaffold1638	46227	GG	TT	1947015718
SNP_P4_165087_46259	NW_004516788.1	Scaffold1638	46259	AA	GG	1947015720
SNP_P4_165088_54437	NW_004516788.1	Scaffold1638	54437	GG	CC	1947015722
SNP_P4_165089_54441	NW_004516788.1	Scaffold1638	54441	GG	TT	1947015724
SNP_P4_165090_54485	NW_004516788.1	Scaffold1638	54485	CC	TT	1947015726
SNP_P4_165091_54643	NW_004516788.1	Scaffold1638	54643	CC	TT	1947015728
SNP_P4_165092_54648	NW_004516788.1	Scaffold1638	54648	AA	GG	1947015730
SNP_P4_165093_54747	NW_004516788.1	Scaffold1638	54747	AA	GG	1947015732
SNP_P4_165094_54757	NW_004516788.1	Scaffold1638	54757	TT	CC	1947015734
SNP_P4_165095_54802	NW_004516788.1	Scaffold1638	54802	AA	GG	1947015736
SNP_P4_165096_54852	NW_004516788.1	Scaffold1638	54852	TT	AA	1947015738
SNP_P4_165097_54897	NW_004516788.1	Scaffold1638	54897	TT	CC	1947015740
SNP_P4_165098_54937	NW_004516788.1	Scaffold1638	54937	TT	CC	1947015742
SNP_P4_165099_54951	NW_004516788.1	Scaffold1638	54951	AA	TT	1947015744
SNP_P4_165100_68653	NW_004516788.1	Scaffold1638	68653	CC	GG	1947015746
SNP_P4_165101_72075	NW_004516788.1	Scaffold1638	72075	GG	TT	1947015748
SNP_P4_165103_87383	NW_004516788.1	Scaffold1638	87383	CC	AA	1947015750
SNP_P4_165104_88956	NW_004516788.1	Scaffold1638	88956	GG	TT	1947015752
SNP_P4_165106_1483	NW_004516792.1	Scaffold1643	1483	TT	CC	1947015754
SNP_P4_165107_1509	NW_004516792.1	Scaffold1643	1509	CC	TT	1947015756

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_165108_1606	NW_004516792.1	Scaffold1643	1606	GG	AA	1947015758
SNP_P4_165109_4719	NW_004516792.1	Scaffold1643	4719	AA	GG	1947015760
SNP_P4_165111_5412	NW_004516792.1	Scaffold1643	5412	CC	TT	1947015762
SNP_P4_165112_5442	NW_004516792.1	Scaffold1643	5442	AA	GG	1947015765
SNP_P4_165113_7499	NW_004516792.1	Scaffold1643	7499	TT	CC	1947015767
SNP_P4_165114_8475	NW_004516792.1	Scaffold1643	8475	AA	TT	1947015769
SNP_P4_165115_8757	NW_004516792.1	Scaffold1643	8757	AA	GG	1947015771
SNP_P4_165116_8970	NW_004516792.1	Scaffold1643	8970	CC	TT	1947015773
SNP_P4_165117_13124	NW_004516792.1	Scaffold1643	13124	AA	GG	1947015775
SNP_P4_165118_15601	NW_004516792.1	Scaffold1643	15601	TT	CC	1947015777
SNP_P4_165119_15634	NW_004516792.1	Scaffold1643	15634	AA	GG	1947015779
SNP_P4_165120_15642	NW_004516792.1	Scaffold1643	15642	TT	AA	1947015781
SNP_P4_165121_15648	NW_004516792.1	Scaffold1643	15648	AA	CC	1947015783
SNP_P4_165122_15675	NW_004516792.1	Scaffold1643	15675	AA	TT	1947015785
SNP_P4_165123_15680	NW_004516792.1	Scaffold1643	15680	GG	AA	1947015787
SNP_P4_165124_15827	NW_004516792.1	Scaffold1643	15827	GG	CC	1947015789
SNP_P4_165125_15839	NW_004516792.1	Scaffold1643	15839	AA	TT	1947015791
SNP_P4_165126_15845	NW_004516792.1	Scaffold1643	15845	CC	TT	1947015793
SNP_P4_165128_16479	NW_004516792.1	Scaffold1643	16479	AA	TT	1947015795
SNP_P4_165129_16552	NW_004516792.1	Scaffold1643	16552	TT	AA	1947015797
SNP_P4_165130_16558	NW_004516792.1	Scaffold1643	16558	AA	TT	1947015799
SNP_P4_165131_16560	NW_004516792.1	Scaffold1643	16560	AA	TT	1947015801
SNP_P4_165132_19793	NW_004516792.1	Scaffold1643	19793	GG	CC	1947015803
SNP_P4_165133_19794	NW_004516792.1	Scaffold1643	19794	TT	GG	1947015805
SNP_P4_165134_19806	NW_004516792.1	Scaffold1643	19806	GG	AA	1947015807
SNP_P4_165135_31922	NW_004516792.1	Scaffold1643	31922	CC	GG	1947015809
SNP_P4_165137_120761	NW_004516792.1	Scaffold1643	120761	CC	TT	1947015811
SNP_P4_165138_128571	NW_004516792.1	Scaffold1643	128571	CC	TT	1947015813
SNP_P4_165139_131216	NW_004516792.1	Scaffold1643	131216	TT	CC	1947015815
SNP_P4_165140_156117	NW_004516792.1	Scaffold1643	156117	TT	CC	1947015817
SNP_P4_165142_156426	NW_004516792.1	Scaffold1643	156426	CC	AA	1947015819
SNP_P4_165143_156427	NW_004516792.1	Scaffold1643	156427	AA	GG	1947015821
SNP_P4_165144_156431	NW_004516792.1	Scaffold1643	156431	AA	CC	1947015823
SNP_P4_165145_156762	NW_004516792.1	Scaffold1643	156762	TT	CC	1947015825
SNP_P4_165146_156799	NW_004516792.1	Scaffold1643	156799	GG	CC	1947015827
SNP_P4_165147_159471	NW_004516792.1	Scaffold1643	159471	GG	TT	1947015829
SNP_P4_165148_159475	NW_004516792.1	Scaffold1643	159475	GG	AA	1947015831
SNP_P4_165149_159512	NW_004516792.1	Scaffold1643	159512	GG	AA	1947015833
SNP_P4_165150_159531	NW_004516792.1	Scaffold1643	159531	CC	TT	1947015835
SNP_P4_165151_159563	NW_004516792.1	Scaffold1643	159563	TT	AA	1947015837
SNP_P4_165152_159819	NW_004516792.1	Scaffold1643	159819	AA	CC	1947015839
SNP_P4_165153_159821	NW_004516792.1	Scaffold1643	159821	CC	TT	1947015841

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_165156_163893	NW_004516792.1	Scaffold1643	163893	GG	AA	1947015845
SNP_P4_165157_164110	NW_004516792.1	Scaffold1643	164110	AA	GG	1947015847
SNP_P4_165158_164130	NW_004516792.1	Scaffold1643	164130	AA	CC	1947015849
SNP_P4_165159_164185	NW_004516792.1	Scaffold1643	164185	GG	AA	1947015851
SNP_P4_165160_164188	NW_004516792.1	Scaffold1643	164188	CC	TT	1947015853
SNP_P4_165161_164566	NW_004516792.1	Scaffold1643	164566	GG	AA	1947015855
SNP_P4_165162_164736	NW_004516792.1	Scaffold1643	164736	TT	CC	1947015857
SNP_P4_165163_164812	NW_004516792.1	Scaffold1643	164812	CC	TT	1947015859
SNP_P4_165164_165289	NW_004516792.1	Scaffold1643	165289	CC	TT	1947015861
SNP_P4_165165_165308	NW_004516792.1	Scaffold1643	165308	CC	TT	1947015863
SNP_P4_165166_165562	NW_004516792.1	Scaffold1643	165562	GG	AA	1947015865
SNP_P4_165167_166370	NW_004516792.1	Scaffold1643	166370	GG	AA	1947015867
SNP_P4_165168_166480	NW_004516792.1	Scaffold1643	166480	CC	GG	1947015869
SNP_P4_165169_166536	NW_004516792.1	Scaffold1643	166536	AA	CC	1947015871
SNP_P4_165170_166695	NW_004516792.1	Scaffold1643	166695	AA	CC	1947015873
SNP_P4_165173_166961	NW_004516792.1	Scaffold1643	166961	TT	AA	1947015875
SNP_P4_165174_166984	NW_004516792.1	Scaffold1643	166984	AA	TT	1947015877
SNP_P4_165175_167002	NW_004516792.1	Scaffold1643	167002	AA	CC	1947015879
SNP_P4_165176_167116	NW_004516792.1	Scaffold1643	167116	GG	AA	1947015881
SNP_P4_165177_167336	NW_004516792.1	Scaffold1643	167336	TT	CC	1947015883
SNP_P4_165178_167347	NW_004516792.1	Scaffold1643	167347	GG	AA	1947015885
SNP_P4_165179_167375	NW_004516792.1	Scaffold1643	167375	AA	GG	1947015887
SNP_P4_165180_167395	NW_004516792.1	Scaffold1643	167395	AA	GG	1947015889
SNP_P4_165181_167419	NW_004516792.1	Scaffold1643	167419	TT	CC	1947015891
SNP_P4_165183_167454	NW_004516792.1	Scaffold1643	167454	CC	AA	1947015893
SNP_P4_165184_167478	NW_004516792.1	Scaffold1643	167478	GG	AA	1947015895
SNP_P4_165185_167511	NW_004516792.1	Scaffold1643	167511	CC	TT	1947015897
SNP_P4_165186_167548	NW_004516792.1	Scaffold1643	167548	AA	GG	1947015899
SNP_P4_165187_167549	NW_004516792.1	Scaffold1643	167549	CC	TT	1947015901
SNP_P4_165188_167550	NW_004516792.1	Scaffold1643	167550	GG	AA	1947015903
SNP_P4_165189_167584	NW_004516792.1	Scaffold1643	167584	CC	AA	1947015905
SNP_P4_165190_167638	NW_004516792.1	Scaffold1643	167638	TT	AA	1947015907
SNP_P4_165191_167656	NW_004516792.1	Scaffold1643	167656	GG	AA	1947015909
SNP_P4_165192_167659	NW_004516792.1	Scaffold1643	167659	GG	AA	1947015911
SNP_P4_165193_167766	NW_004516792.1	Scaffold1643	167766	TT	AA	1947015912
SNP_P4_165195_169482	NW_004516792.1	Scaffold1643	169482	GG	AA	1947015913
SNP_P4_165196_169501	NW_004516792.1	Scaffold1643	169501	GG	TT	1947015914
SNP_P4_165197_169558	NW_004516792.1	Scaffold1643	169558	CC	TT	1947015915
SNP_P4_165198_170473	NW_004516792.1	Scaffold1643	170473	TT	AA	1947015916
SNP_P4_165199_170474	NW_004516792.1	Scaffold1643	170474	TT	AA	1947015917
SNP_P4_165200_170986	NW_004516792.1	Scaffold1643	170986	CC	TT	1947015918

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_165203_171461	NW_004516792.1	Scaffold1643	171461	AA	GG	1947015920
SNP_P4_165205_171701	NW_004516792.1	Scaffold1643	171701	TT	CC	1947015921
SNP_P4_165206_171703	NW_004516792.1	Scaffold1643	171703	CC	TT	1947015922
SNP_P4_165208_171864	NW_004516792.1	Scaffold1643	171864	CC	TT	1947015923
SNP_P4_165209_171915	NW_004516792.1	Scaffold1643	171915	CC	TT	1947015924
SNP_P4_165210_172001	NW_004516792.1	Scaffold1643	172001	TT	AA	1947015926
SNP_P4_165211_172037	NW_004516792.1	Scaffold1643	172037	CC	TT	1947015928
SNP_P4_165212_172294	NW_004516792.1	Scaffold1643	172294	CC	AA	1947015930
SNP_P4_165213_180898	NW_004516792.1	Scaffold1643	180898	CC	TT	1947015932
SNP_P4_165214_180916	NW_004516792.1	Scaffold1643	180916	TT	CC	1947015934
SNP_P4_165215_180924	NW_004516792.1	Scaffold1643	180924	TT	CC	1947015936
SNP_P4_165217_181071	NW_004516792.1	Scaffold1643	181071	GG	CC	1947015938
SNP_P4_165218_181130	NW_004516792.1	Scaffold1643	181130	TT	GG	1947015940
SNP_P4_165219_181151	NW_004516792.1	Scaffold1643	181151	AA	CC	1947015942
SNP_P4_165220_181164	NW_004516792.1	Scaffold1643	181164	GG	AA	1947015944
SNP_P4_165221_181333	NW_004516792.1	Scaffold1643	181333	TT	GG	1947015946
SNP_P4_165222_181385	NW_004516792.1	Scaffold1643	181385	GG	AA	1947015948
SNP_P4_165223_181447	NW_004516792.1	Scaffold1643	181447	CC	TT	1947015950
SNP_P4_165224_181492	NW_004516792.1	Scaffold1643	181492	GG	TT	1947015952
SNP_P4_165225_183152	NW_004516792.1	Scaffold1643	183152	TT	CC	1947015954
SNP_P4_165226_183220	NW_004516792.1	Scaffold1643	183220	AA	CC	1947015956
SNP_P4_165227_183228	NW_004516792.1	Scaffold1643	183228	AA	GG	1947015958
SNP_P4_165228_183302	NW_004516792.1	Scaffold1643	183302	GG	AA	1947015960
SNP_P4_165229_183362	NW_004516792.1	Scaffold1643	183362	TT	CC	1947015962
SNP_P4_165230_183382	NW_004516792.1	Scaffold1643	183382	TT	CC	1947015964
SNP_P4_165231_184186	NW_004516792.1	Scaffold1643	184186	TT	AA	1947015966
SNP_P4_165232_187243	NW_004516792.1	Scaffold1643	187243	GG	CC	1947015968
SNP_P4_165233_187280	NW_004516792.1	Scaffold1643	187280	TT	CC	1947015970
SNP_P4_165234_187337	NW_004516792.1	Scaffold1643	187337	AA	TT	1947015972
SNP_P4_165235_187405	NW_004516792.1	Scaffold1643	187405	CC	TT	1947015974
SNP_P4_165236_187437	NW_004516792.1	Scaffold1643	187437	CC	TT	1947015976
SNP_P4_165237_187499	NW_004516792.1	Scaffold1643	187499	AA	TT	1947015978
SNP_P4_165238_187500	NW_004516792.1	Scaffold1643	187500	AA	GG	1947015980
SNP_P4_165239_187786	NW_004516792.1	Scaffold1643	187786	AA	CC	1947015982
SNP_P4_165240_189083	NW_004516792.1	Scaffold1643	189083	GG	AA	1947015984
SNP_P4_165241_189207	NW_004516792.1	Scaffold1643	189207	CC	GG	1947015986
SNP_P4_165242_189310	NW_004516792.1	Scaffold1643	189310	GG	TT	1947015988
SNP_P4_165243_189320	NW_004516792.1	Scaffold1643	189320	GG	CC	1947015990
SNP_P4_165244_189698	NW_004516792.1	Scaffold1643	189698	TT	AA	1947015992
SNP_P4_165245_189978	NW_004516792.1	Scaffold1643	189978	CC	AA	1947015994
SNP_P4_165246_190007	NW_004516792.1	Scaffold1643	190007	AA	GG	1947015996

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_165247_190030	NW_004516792.1	Scaffold1643	190030	CC	GG	1947015998
SNP_P4_165248_190075	NW_004516792.1	Scaffold1643	190075	GG	AA	1947016000
SNP_P4_165249_190330	NW_004516792.1	Scaffold1643	190330	GG	AA	1947016002
SNP_P4_165250_190413	NW_004516792.1	Scaffold1643	190413	AA	CC	1947016004
SNP_P4_165251_190520	NW_004516792.1	Scaffold1643	190520	AA	TT	1947016006
SNP_P4_165252_190537	NW_004516792.1	Scaffold1643	190537	AA	CC	1947016008
SNP_P4_165253_190539	NW_004516792.1	Scaffold1643	190539	GG	AA	1947016010
SNP_P4_165254_190596	NW_004516792.1	Scaffold1643	190596	AA	CC	1947016012
SNP_P4_165255_190655	NW_004516792.1	Scaffold1643	190655	AA	GG	1947016014
SNP_P4_165256_190743	NW_004516792.1	Scaffold1643	190743	TT	AA	1947016016
SNP_P4_165258_192934	NW_004516792.1	Scaffold1643	192934	GG	AA	1947016018
SNP_P4_165259_192935	NW_004516792.1	Scaffold1643	192935	TT	CC	1947016020
SNP_P4_165260_192975	NW_004516792.1	Scaffold1643	192975	CC	TT	1947016022
SNP_P4_165261_192978	NW_004516792.1	Scaffold1643	192978	TT	CC	1947016024
SNP_P4_165263_193108	NW_004516792.1	Scaffold1643	193108	GG	AA	1947016026
SNP_P4_165264_193186	NW_004516792.1	Scaffold1643	193186	AA	TT	1947016028
SNP_P4_165265_193189	NW_004516792.1	Scaffold1643	193189	CC	AA	1947016030
SNP_P4_165266_193193	NW_004516792.1	Scaffold1643	193193	CC	AA	1947016032
SNP_P4_165267_193211	NW_004516792.1	Scaffold1643	193211	CC	TT	1947016034
SNP_P4_165268_193219	NW_004516792.1	Scaffold1643	193219	GG	CC	1947016036
SNP_P4_165269_193220	NW_004516792.1	Scaffold1643	193220	AA	CC	1947016038
SNP_P4_165270_193256	NW_004516792.1	Scaffold1643	193256	AA	GG	1947016040
SNP_P4_165271_193308	NW_004516792.1	Scaffold1643	193308	CC	TT	1947016042
SNP_P4_165272_193619	NW_004516792.1	Scaffold1643	193619	AA	TT	1947016044
SNP_P4_165273_201063	NW_004516792.1	Scaffold1643	201063	GG	AA	1947016046
SNP_P4_165274_201132	NW_004516792.1	Scaffold1643	201132	TT	AA	1947016048
SNP_P4_165275_201177	NW_004516792.1	Scaffold1643	201177	AA	GG	1947016050
SNP_P4_165276_201237	NW_004516792.1	Scaffold1643	201237	GG	AA	1947016052
SNP_P4_165277_201238	NW_004516792.1	Scaffold1643	201238	CC	TT	1947016054
SNP_P4_165278_201254	NW_004516792.1	Scaffold1643	201254	GG	AA	1947016056
SNP_P4_165279_201264	NW_004516792.1	Scaffold1643	201264	GG	AA	1947016058
SNP_P4_165280_201267	NW_004516792.1	Scaffold1643	201267	TT	CC	1947016060
SNP_P4_165281_201277	NW_004516792.1	Scaffold1643	201277	TT	CC	1947016062
SNP_P4_165282_201308	NW_004516792.1	Scaffold1643	201308	AA	GG	1947016064
SNP_P4_165283_201337	NW_004516792.1	Scaffold1643	201337	CC	GG	1947016066
SNP_P4_165284_201340	NW_004516792.1	Scaffold1643	201340	CC	TT	1947016068
SNP_P4_165285_201365	NW_004516792.1	Scaffold1643	201365	CC	TT	1947016071
SNP_P4_165286_201373	NW_004516792.1	Scaffold1643	201373	TT	CC	1947016073
SNP_P4_165287_201378	NW_004516792.1	Scaffold1643	201378	TT	CC	1947016075
SNP_P4_165288_201387	NW_004516792.1	Scaffold1643	201387	CC	TT	1947016077
SNP_P4_165289_201412	NW_004516792.1	Scaffold1643	201412	CC	GG	1947016079
SNP_P4_165290_201467	NW_004516792.1	Scaffold1643	201467	AA	GG	1947016081

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_165291_201474	NW_004516792.1	Scaffold1643	201474	CC	TT	1947016083
SNP_P4_165292_201482	NW_004516792.1	Scaffold1643	201482	GG	CC	1947016085
SNP_P4_165293_201662	NW_004516792.1	Scaffold1643	201662	CC	AA	1947016087
SNP_P4_165294_203695	NW_004516792.1	Scaffold1643	203695	AA	CC	1947016089
SNP_P4_165295_203731	NW_004516792.1	Scaffold1643	203731	AA	TT	1947016091
SNP_P4_165296_206761	NW_004516792.1	Scaffold1643	206761	AA	CC	1947016093
SNP_P4_165297_206777	NW_004516792.1	Scaffold1643	206777	GG	AA	1947016095
SNP_P4_165298_206791	NW_004516792.1	Scaffold1643	206791	TT	CC	1947016097
SNP_P4_165299_206814	NW_004516792.1	Scaffold1643	206814	CC	AA	1947016099
SNP_P4_165300_206836	NW_004516792.1	Scaffold1643	206836	AA	TT	1947016101
SNP_P4_165301_206938	NW_004516792.1	Scaffold1643	206938	AA	GG	1947016103
SNP_P4_165302_206954	NW_004516792.1	Scaffold1643	206954	CC	TT	1947016105
SNP_P4_165303_206996	NW_004516792.1	Scaffold1643	206996	CC	TT	1947016107
SNP_P4_165304_207127	NW_004516792.1	Scaffold1643	207127	TT	CC	1947016109
SNP_P4_165305_207305	NW_004516792.1	Scaffold1643	207305	TT	CC	1947016110
SNP_P4_165306_207333	NW_004516792.1	Scaffold1643	207333	AA	GG	1947016112
SNP_P4_165307_207812	NW_004516792.1	Scaffold1643	207812	CC	AA	1947016114
SNP_P4_165308_207828	NW_004516792.1	Scaffold1643	207828	GG	AA	1947016116
SNP_P4_165309_207859	NW_004516792.1	Scaffold1643	207859	GG	AA	1947016118
SNP_P4_165310_208010	NW_004516792.1	Scaffold1643	208010	GG	AA	1947016120
SNP_P4_165311_208403	NW_004516792.1	Scaffold1643	208403	AA	TT	1947016122
SNP_P4_165312_208431	NW_004516792.1	Scaffold1643	208431	CC	AA	1947016124
SNP_P4_165313_208435	NW_004516792.1	Scaffold1643	208435	AA	CC	1947016126
SNP_P4_165314_208436	NW_004516792.1	Scaffold1643	208436	AA	TT	1947016128
SNP_P4_165315_208457	NW_004516792.1	Scaffold1643	208457	AA	GG	1947016130
SNP_P4_165316_208470	NW_004516792.1	Scaffold1643	208470	AA	TT	1947016132
SNP_P4_165317_209385	NW_004516792.1	Scaffold1643	209385	CC	GG	1947016134
SNP_P4_165318_209452	NW_004516792.1	Scaffold1643	209452	TT	AA	1947016136
SNP_P4_165319_209878	NW_004516792.1	Scaffold1643	209878	CC	TT	1947016138
SNP_P4_165320_210161	NW_004516792.1	Scaffold1643	210161	TT	AA	1947016140
SNP_P4_165321_210213	NW_004516792.1	Scaffold1643	210213	AA	GG	1947016142
SNP_P4_165322_210234	NW_004516792.1	Scaffold1643	210234	TT	CC	1947016144
SNP_P4_165323_210242	NW_004516792.1	Scaffold1643	210242	TT	AA	1947016146
SNP_P4_165324_210260	NW_004516792.1	Scaffold1643	210260	AA	TT	1947016147
SNP_P4_165325_210279	NW_004516792.1	Scaffold1643	210279	GG	AA	1947016149
SNP_P4_165326_210301	NW_004516792.1	Scaffold1643	210301	TT	AA	1947016151
SNP_P4_165327_210309	NW_004516792.1	Scaffold1643	210309	TT	AA	1947016153
SNP_P4_165329_210515	NW_004516792.1	Scaffold1643	210515	TT	CC	1947016155
SNP_P4_165330_210516	NW_004516792.1	Scaffold1643	210516	GG	TT	1947016157
SNP_P4_165332_210595	NW_004516792.1	Scaffold1643	210595	AA	CC	1947016159
SNP_P4_165333_210727	NW_004516792.1	Scaffold1643	210727	GG	AA	1947016161
SNP_P4_165334_210784	NW_004516792.1	Scaffold1643	210784	TT	CC	1947016163

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_165336_210914	NW_004516792.1	Scaffold1643	210914	TT	AA	1947016166
SNP_P4_165337_210932	NW_004516792.1	Scaffold1643	210932	AA	CC	1947016168
SNP_P4_165338_210976	NW_004516792.1	Scaffold1643	210976	TT	AA	1947016170
SNP_P4_165340_211057	NW_004516792.1	Scaffold1643	211057	TT	AA	1947016172
SNP_P4_165342_211113	NW_004516792.1	Scaffold1643	211113	CC	AA	1947016174
SNP_P4_165343_211176	NW_004516792.1	Scaffold1643	211176	TT	CC	1947016176
SNP_P4_165344_211191	NW_004516792.1	Scaffold1643	211191	GG	AA	1947016178
SNP_P4_165346_211346	NW_004516792.1	Scaffold1643	211346	TT	AA	1947016180
SNP_P4_165347_211354	NW_004516792.1	Scaffold1643	211354	CC	AA	1947016182
SNP_P4_165348_212477	NW_004516792.1	Scaffold1643	212477	TT	CC	1947016184
SNP_P4_165349_212497	NW_004516792.1	Scaffold1643	212497	CC	TT	1947016186
SNP_P4_165350_212638	NW_004516792.1	Scaffold1643	212638	GG	AA	1947016187
SNP_P4_165351_213211	NW_004516792.1	Scaffold1643	213211	CC	TT	1947016189
SNP_P4_165352_213227	NW_004516792.1	Scaffold1643	213227	AA	TT	1947016191
SNP_P4_165353_213915	NW_004516792.1	Scaffold1643	213915	GG	CC	1947016193
SNP_P4_165355_213942	NW_004516792.1	Scaffold1643	213942	GG	AA	1947016195
SNP_P4_165356_214715	NW_004516792.1	Scaffold1643	214715	TT	CC	1947016197
SNP_P4_165357_215033	NW_004516792.1	Scaffold1643	215033	GG	AA	1947016199
SNP_P4_165358_215158	NW_004516792.1	Scaffold1643	215158	GG	AA	1947016201
SNP_P4_165359_215240	NW_004516792.1	Scaffold1643	215240	CC	TT	1947016203
SNP_P4_165360_1330	NW_004516793.1	Scaffold1644	1330	CC	GG	1947016205
SNP_P4_165361_1335	NW_004516793.1	Scaffold1644	1335	AA	CC	1947016207
SNP_P4_165362_4323	NW_004516793.1	Scaffold1644	4323	TT	GG	1947016208
SNP_P4_165363_4331	NW_004516793.1	Scaffold1644	4331	TT	GG	1947016210
SNP_P4_165364_4466	NW_004516793.1	Scaffold1644	4466	TT	CC	1947016212
SNP_P4_165365_4726	NW_004516793.1	Scaffold1644	4726	GG	TT	1947016214
SNP_P4_165366_4732	NW_004516793.1	Scaffold1644	4732	CC	TT	1947016216
SNP_P4_165367_10075	NW_004516793.1	Scaffold1644	10075	GG	AA	1947016218
SNP_P4_165368_10079	NW_004516793.1	Scaffold1644	10079	GG	AA	1947016220
SNP_P4_165369_10082	NW_004516793.1	Scaffold1644	10082	TT	CC	1947016222
SNP_P4_165370_10092	NW_004516793.1	Scaffold1644	10092	TT	CC	1947016224
SNP_P4_165371_10147	NW_004516793.1	Scaffold1644	10147	AA	GG	1947016226
SNP_P4_165372_10498	NW_004516793.1	Scaffold1644	10498	AA	GG	1947016228
SNP_P4_165373_10551	NW_004516793.1	Scaffold1644	10551	AA	TT	1947016230
SNP_P4_165374_10554	NW_004516793.1	Scaffold1644	10554	CC	TT	1947016232
SNP_P4_165375_3146	NW_004516795.1	Scaffold1649	3146	CC	GG	1947016234
SNP_P4_165376_17672	NW_004516795.1	Scaffold1649	17672	TT	AA	1947016236
SNP_P4_165377_17726	NW_004516795.1	Scaffold1649	17726	CC	TT	1947016238
SNP_P4_165378_182	NW_004516797.1	Scaffold1651	182	AA	CC	1947016240
SNP_P4_165379_4184	NW_004516797.1	Scaffold1651	4184	AA	GG	1947016242
SNP_P4_165380_4289	NW_004516797.1	Scaffold1651	4289	GG	AA	1947016244

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_165382_4525	NW_004516797.1	Scaffold1651	4525	AA	TT	1947016248
SNP_P4_165383_4665	NW_004516797.1	Scaffold1651	4665	TT	CC	1947016250
SNP_P4_165384_4675	NW_004516797.1	Scaffold1651	4675	GG	AA	1947016252
SNP_P4_165385_4809	NW_004516797.1	Scaffold1651	4809	TT	CC	1947016254
SNP_P4_165387_5085	NW_004516797.1	Scaffold1651	5085	TT	GG	1947016256
SNP_P4_165389_5171	NW_004516797.1	Scaffold1651	5171	CC	TT	1947016258
SNP_P4_165390_5265	NW_004516797.1	Scaffold1651	5265	GG	AA	1947016260
SNP_P4_165391_5441	NW_004516797.1	Scaffold1651	5441	TT	CC	1947016262
SNP_P4_165392_5980	NW_004516797.1	Scaffold1651	5980	GG	AA	1947016264
SNP_P4_165393_6076	NW_004516797.1	Scaffold1651	6076	CC	TT	1947016266
SNP_P4_165394_6108	NW_004516797.1	Scaffold1651	6108	TT	CC	1947016268
SNP_P4_165395_6149	NW_004516797.1	Scaffold1651	6149	GG	AA	1947016270
SNP_P4_165396_6152	NW_004516797.1	Scaffold1651	6152	TT	CC	1947016272
SNP_P4_165397_6197	NW_004516797.1	Scaffold1651	6197	GG	AA	1947016274
SNP_P4_165398_6223	NW_004516797.1	Scaffold1651	6223	TT	CC	1947016276
SNP_P4_165399_6549	NW_004516797.1	Scaffold1651	6549	GG	AA	1947016278
SNP_P4_165400_6685	NW_004516797.1	Scaffold1651	6685	TT	GG	1947016280
SNP_P4_165401_6852	NW_004516797.1	Scaffold1651	6852	GG	AA	1947016282
SNP_P4_165402_6999	NW_004516797.1	Scaffold1651	6999	TT	GG	1947016284
SNP_P4_165403_7087	NW_004516797.1	Scaffold1651	7087	AA	TT	1947016286
SNP_P4_165404_7151	NW_004516797.1	Scaffold1651	7151	CC	AA	1947016288
SNP_P4_165405_7212	NW_004516797.1	Scaffold1651	7212	AA	GG	1947016290
SNP_P4_165406_7376	NW_004516797.1	Scaffold1651	7376	TT	CC	1947016292
SNP_P4_165407_7440	NW_004516797.1	Scaffold1651	7440	GG	TT	1947016294
SNP_P4_165408_7558	NW_004516797.1	Scaffold1651	7558	AA	GG	1947016296
SNP_P4_165409_7638	NW_004516797.1	Scaffold1651	7638	GG	AA	1947016298
SNP_P4_165410_7707	NW_004516797.1	Scaffold1651	7707	AA	CC	1947016300
SNP_P4_165412_9081	NW_004516797.1	Scaffold1651	9081	GG	AA	1947016302
SNP_P4_165413_9085	NW_004516797.1	Scaffold1651	9085	GG	TT	1947016304
SNP_P4_165414_9305	NW_004516797.1	Scaffold1651	9305	TT	CC	1947016306
SNP_P4_165415_9323	NW_004516797.1	Scaffold1651	9323	TT	GG	1947016308
SNP_P4_165416_9331	NW_004516797.1	Scaffold1651	9331	GG	TT	1947016310
SNP_P4_165417_9343	NW_004516797.1	Scaffold1651	9343	AA	CC	1947016312
SNP_P4_165418_9353	NW_004516797.1	Scaffold1651	9353	TT	GG	1947016314
SNP_P4_165419_9452	NW_004516797.1	Scaffold1651	9452	GG	TT	1947016316
SNP_P4_165420_9771	NW_004516797.1	Scaffold1651	9771	GG	AA	1947016318
SNP_P4_165421_9813	NW_004516797.1	Scaffold1651	9813	GG	AA	1947016320
SNP_P4_165422_9986	NW_004516797.1	Scaffold1651	9986	CC	TT	1947016322
SNP_P4_165423_10057	NW_004516797.1	Scaffold1651	10057	GG	AA	1947016324
SNP_P4_165424_10086	NW_004516797.1	Scaffold1651	10086	CC	AA	1947016326
SNP_P4_165425_10258	NW_004516797.1	Scaffold1651	10258	TT	CC	1947016328

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_165427_10362	NW_004516797.1	Scaffold1651	10362	GG	AA	1947016333
SNP_P4_165428_10400	NW_004516797.1	Scaffold1651	10400	AA	GG	1947016335
SNP_P4_165429_10429	NW_004516797.1	Scaffold1651	10429	CC	TT	1947016337
SNP_P4_165430_10503	NW_004516797.1	Scaffold1651	10503	GG	AA	1947016339
SNP_P4_165431_10603	NW_004516797.1	Scaffold1651	10603	GG	TT	1947016341
SNP_P4_165432_10836	NW_004516797.1	Scaffold1651	10836	GG	AA	1947016343
SNP_P4_165433_10841	NW_004516797.1	Scaffold1651	10841	CC	TT	1947016345
SNP_P4_165434_10882	NW_004516797.1	Scaffold1651	10882	CC	TT	1947016347
SNP_P4_165435_11014	NW_004516797.1	Scaffold1651	11014	AA	TT	1947016349
SNP_P4_165436_11033	NW_004516797.1	Scaffold1651	11033	AA	GG	1947016351
SNP_P4_165437_11042	NW_004516797.1	Scaffold1651	11042	GG	AA	1947016353
SNP_P4_165438_11047	NW_004516797.1	Scaffold1651	11047	GG	AA	1947016355
SNP_P4_165439_11081	NW_004516797.1	Scaffold1651	11081	TT	GG	1947016357
SNP_P4_165440_11082	NW_004516797.1	Scaffold1651	11082	CC	TT	1947016359
SNP_P4_165442_11155	NW_004516797.1	Scaffold1651	11155	CC	TT	1947016361
SNP_P4_165443_11219	NW_004516797.1	Scaffold1651	11219	CC	TT	1947016363
SNP_P4_165444_11242	NW_004516797.1	Scaffold1651	11242	TT	CC	1947016365
SNP_P4_165445_11463	NW_004516797.1	Scaffold1651	11463	GG	AA	1947016367
SNP_P4_165446_11486	NW_004516797.1	Scaffold1651	11486	TT	CC	1947016369
SNP_P4_165447_11490	NW_004516797.1	Scaffold1651	11490	GG	TT	1947016371
SNP_P4_165449_11572	NW_004516797.1	Scaffold1651	11572	AA	GG	1947016373
SNP_P4_165450_11638	NW_004516797.1	Scaffold1651	11638	AA	GG	1947016375
SNP_P4_165451_11648	NW_004516797.1	Scaffold1651	11648	GG	TT	1947016377
SNP_P4_165452_11829	NW_004516797.1	Scaffold1651	11829	AA	GG	1947016379
SNP_P4_165454_12084	NW_004516797.1	Scaffold1651	12084	CC	TT	1947016381
SNP_P4_165455_12256	NW_004516797.1	Scaffold1651	12256	CC	TT	1947016383
SNP_P4_165456_12261	NW_004516797.1	Scaffold1651	12261	TT	CC	1947016385
SNP_P4_165457_12323	NW_004516797.1	Scaffold1651	12323	CC	TT	1947016387
SNP_P4_165458_12330	NW_004516797.1	Scaffold1651	12330	CC	TT	1947016389
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SNP_P4_165462_13097	NW_004516797.1	Scaffold1651	13097	AA	TT	1947016395
SNP_P4_165463_13161	NW_004516797.1	Scaffold1651	13161	CC	TT	1947016397
SNP_P4_165464_13209	NW_004516797.1	Scaffold1651	13209	GG	AA	1947016399
SNP_P4_165466_13454	NW_004516797.1	Scaffold1651	13454	AA	CC	1947016401
SNP_P4_165467_13462	NW_004516797.1	Scaffold1651	13462	CC	TT	1947016403
SNP_P4_165469_13627	NW_004516797.1	Scaffold1651	13627	AA	GG	1947016406
SNP_P4_165470_13644	NW_004516797.1	Scaffold1651	13644	CC	AA	1947016408
SNP_P4_165471_13668	NW_004516797.1	Scaffold1651	13668	AA	TT	1947016410
SNP_P4_165472_13679	NW_004516797.1	Scaffold1651	13679	GG	AA	1947016412
SNP_P4_165473_13694	NW_004516797.1	Scaffold1651	13694	AA	GG	1947016414

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_165474_13843	NW_004516797.1	Scaffold1651	13843	GG	CC	1947016415
SNP_P4_165475_13891	NW_004516797.1	Scaffold1651	13891	TT	AA	1947016417
SNP_P4_165476_14049	NW_004516797.1	Scaffold1651	14049	AA	CC	1947016419
SNP_P4_165477_14177	NW_004516797.1	Scaffold1651	14177	GG	TT	1947016421
SNP_P4_165479_14358	NW_004516797.1	Scaffold1651	14358	GG	AA	1947016423
SNP_P4_165480_14585	NW_004516797.1	Scaffold1651	14585	AA	CC	1947016425
SNP_P4_165481_14639	NW_004516797.1	Scaffold1651	14639	CC	AA	1947016427
SNP_P4_165482_14813	NW_004516797.1	Scaffold1651	14813	AA	CC	1947016429
SNP_P4_165483_14919	NW_004516797.1	Scaffold1651	14919	GG	AA	1947016431
SNP_P4_165484_14967	NW_004516797.1	Scaffold1651	14967	TT	CC	1947016433
SNP_P4_165486_15053	NW_004516797.1	Scaffold1651	15053	CC	TT	1947016435
SNP_P4_165487_16101	NW_004516797.1	Scaffold1651	16101	CC	TT	1947016437
SNP_P4_165488_16191	NW_004516797.1	Scaffold1651	16191	AA	GG	1947016439
SNP_P4_165491_16690	NW_004516797.1	Scaffold1651	16690	TT	GG	1947016441
SNP_P4_165492_16784	NW_004516797.1	Scaffold1651	16784	AA	GG	1947016443
SNP_P4_165494_16872	NW_004516797.1	Scaffold1651	16872	GG	AA	1947016445
SNP_P4_165496_17291	NW_004516797.1	Scaffold1651	17291	GG	AA	1947016447
SNP_P4_165497_17314	NW_004516797.1	Scaffold1651	17314	CC	GG	1947016449
SNP_P4_165498_17352	NW_004516797.1	Scaffold1651	17352	CC	TT	1947016451
SNP_P4_165499_17497	NW_004516797.1	Scaffold1651	17497	CC	TT	1947016453
SNP_P4_165501_17739	NW_004516797.1	Scaffold1651	17739	GG	AA	1947016455
SNP_P4_165503_18310	NW_004516797.1	Scaffold1651	18310	GG	AA	1947016457
SNP_P4_165504_18415	NW_004516797.1	Scaffold1651	18415	TT	CC	1947016459
SNP_P4_165505_18477	NW_004516797.1	Scaffold1651	18477	CC	TT	1947016461
SNP_P4_165507_18579	NW_004516797.1	Scaffold1651	18579	GG	CC	1947016463
SNP_P4_165508_18614	NW_004516797.1	Scaffold1651	18614	GG	AA	1947016465
SNP_P4_165509_18754	NW_004516797.1	Scaffold1651	18754	TT	CC	1947016467
SNP_P4_165510_18759	NW_004516797.1	Scaffold1651	18759	GG	AA	1947016469
SNP_P4_165511_18795	NW_004516797.1	Scaffold1651	18795	TT	AA	1947016471
SNP_P4_165512_18813	NW_004516797.1	Scaffold1651	18813	GG	TT	1947016473
SNP_P4_165514_19021	NW_004516797.1	Scaffold1651	19021	TT	CC	1947016475
SNP_P4_165515_19817	NW_004516797.1	Scaffold1651	19817	AA	TT	1947016477
SNP_P4_165516_19854	NW_004516797.1	Scaffold1651	19854	AA	GG	1947016479
SNP_P4_165517_20099	NW_004516797.1	Scaffold1651	20099	CC	TT	1947016481
SNP_P4_165518_20104	NW_004516797.1	Scaffold1651	20104	AA	TT	1947016483
SNP_P4_165519_20253	NW_004516797.1	Scaffold1651	20253	GG	TT	1947016485
SNP_P4_165520_20382	NW_004516797.1	Scaffold1651	20382	CC	TT	1947016487
SNP_P4_165521_20709	NW_004516797.1	Scaffold1651	20709	AA	GG	1947016489
SNP_P4_165522_22607	NW_004516797.1	Scaffold1651	22607	TT	CC	1947016491
SNP_P4_165523_22608	NW_004516797.1	Scaffold1651	22608	TT	CC	1947016493
SNP_P4_165524_22724	NW_004516797.1	Scaffold1651	22724	CC	AA	1947016495
SNP_P4_165525_23019	NW_004516797.1	Scaffold1651	23019	TT	CC	1947016497

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_165527_23141	NW_004516797.1	Scaffold1651	23141	GG	AA	1947016500
SNP_P4_165528_26872	NW_004516797.1	Scaffold1651	26872	CC	TT	1947016502
SNP_P4_165529_26874	NW_004516797.1	Scaffold1651	26874	TT	GG	1947016504
SNP_P4_165530_30471	NW_004516797.1	Scaffold1651	30471	GG	AA	1947016506
SNP_P4_165531_30556	NW_004516797.1	Scaffold1651	30556	AA	TT	1947016508
SNP_P4_165532_30934	NW_004516797.1	Scaffold1651	30934	CC	TT	1947016510
SNP_P4_165533_31077	NW_004516797.1	Scaffold1651	31077	GG	AA	1947016512
SNP_P4_165534_31081	NW_004516797.1	Scaffold1651	31081	TT	CC	1947016514
SNP_P4_165535_31123	NW_004516797.1	Scaffold1651	31123	CC	TT	1947016516
SNP_P4_165536_31137	NW_004516797.1	Scaffold1651	31137	AA	GG	1947016518
SNP_P4_165537_31271	NW_004516797.1	Scaffold1651	31271	GG	CC	1947016520
SNP_P4_165538_31348	NW_004516797.1	Scaffold1651	31348	CC	TT	1947016522
SNP_P4_165539_31440	NW_004516797.1	Scaffold1651	31440	TT	GG	1947016524
SNP_P4_165540_31441	NW_004516797.1	Scaffold1651	31441	CC	TT	1947016526
SNP_P4_165541_31470	NW_004516797.1	Scaffold1651	31470	AA	GG	1947016528
SNP_P4_165542_31530	NW_004516797.1	Scaffold1651	31530	CC	TT	1947016530
SNP_P4_165543_31546	NW_004516797.1	Scaffold1651	31546	GG	AA	1947016532
SNP_P4_165544_2444	NW_004516798.1	Scaffold1652	2444	CC	TT	1947016534
SNP_P4_165545_44323	NW_004516799.1	Scaffold1654	44323	TT	AA	1947016536
SNP_P4_165546_44332	NW_004516799.1	Scaffold1654	44332	GG	AA	1947016538
SNP_P4_165547_44436	NW_004516799.1	Scaffold1654	44436	AA	TT	1947016540
SNP_P4_165548_44673	NW_004516799.1	Scaffold1654	44673	GG	AA	1947016542
SNP_P4_165549_44723	NW_004516799.1	Scaffold1654	44723	TT	CC	1947016544
SNP_P4_165550_44873	NW_004516799.1	Scaffold1654	44873	GG	AA	1947016546
SNP_P4_165551_53110	NW_004516799.1	Scaffold1654	53110	CC	TT	1947016548
SNP_P4_165552_53123	NW_004516799.1	Scaffold1654	53123	GG	AA	1947016550
SNP_P4_165553_74254	NW_004516799.1	Scaffold1654	74254	GG	TT	1947016552
SNP_P4_165554_154	NW_004516801.1	Scaffold1657	154	CC	TT	1947016554
SNP_P4_165555_169	NW_004516801.1	Scaffold1657	169	CC	TT	1947016556
SNP_P4_165556_205	NW_004516801.1	Scaffold1657	205	TT	CC	1947016558
SNP_P4_165557_279	NW_004516801.1	Scaffold1657	279	TT	CC	1947016560
SNP_P4_165558_320	NW_004516801.1	Scaffold1657	320	AA	GG	1947016562
SNP_P4_165559_324	NW_004516801.1	Scaffold1657	324	GG	AA	1947016564
SNP_P4_165560_337	NW_004516801.1	Scaffold1657	337	TT	AA	1947016566
SNP_P4_165561_411	NW_004516801.1	Scaffold1657	411	GG	CC	1947016568
SNP_P4_165562_460	NW_004516801.1	Scaffold1657	460	CC	AA	1947016570
SNP_P4_165563_568	NW_004516801.1	Scaffold1657	568	AA	GG	1947016573
SNP_P4_165564_660	NW_004516801.1	Scaffold1657	660	TT	AA	1947016575
SNP_P4_165565_661	NW_004516801.1	Scaffold1657	661	GG	TT	1947016577
SNP_P4_165566_913	NW_004516801.1	Scaffold1657	913	TT	CC	1947016579
SNP_P4_165567_1030	NW_004516801.1	Scaffold1657	1030	AA	GG	1947016581

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_165568_133	NW_004516802.1	Scaffold1658	133	AA	GG	1947016583
SNP_P4_165569_64	NW_004516803.1	Scaffold1659	64	AA	TT	1947016585
SNP_P4_165570_99	NW_004516803.1	Scaffold1659	99	GG	TT	1947016587
SNP_P4_165572_157	NW_004516803.1	Scaffold1659	157	GG	AA	1947016589
SNP_P4_165573_453	NW_004516803.1	Scaffold1659	453	TT	AA	1947016591
SNP_P4_165574_565	NW_004516803.1	Scaffold1659	565	TT	AA	1947016593
SNP_P4_165575_702	NW_004516803.1	Scaffold1659	702	TT	CC	1947016595
SNP_P4_165576_1583	NW_004516803.1	Scaffold1659	1583	TT	AA	1947016597
SNP_P4_165577_2088	NW_004516803.1	Scaffold1659	2088	GG	AA	1947016599
SNP_P4_165578_2162	NW_004516803.1	Scaffold1659	2162	TT	CC	1947016601
SNP_P4_165579_2216	NW_004516803.1	Scaffold1659	2216	GG	AA	1947016602
SNP_P4_165580_2279	NW_004516803.1	Scaffold1659	2279	CC	TT	1947016604
SNP_P4_165581_2869	NW_004516803.1	Scaffold1659	2869	GG	AA	1947016606
SNP_P4_165582_2925	NW_004516803.1	Scaffold1659	2925	GG	AA	1947016608
SNP_P4_165583_3019	NW_004516803.1	Scaffold1659	3019	AA	TT	1947016610
SNP_P4_165584_3212	NW_004516803.1	Scaffold1659	3212	GG	AA	1947016612
SNP_P4_165585_3371	NW_004516803.1	Scaffold1659	3371	CC	GG	1947016614
SNP_P4_165586_3978	NW_004516803.1	Scaffold1659	3978	CC	TT	1947016616
SNP_P4_165587_4832	NW_004516803.1	Scaffold1659	4832	GG	AA	1947016618
SNP_P4_165588_4902	NW_004516803.1	Scaffold1659	4902	TT	CC	1947016620
SNP_P4_165589_4918	NW_004516803.1	Scaffold1659	4918	GG	TT	1947016622
SNP_P4_165590_19768	NW_004516803.1	Scaffold1659	19768	TT	CC	1947016624
SNP_P4_165591_19786	NW_004516803.1	Scaffold1659	19786	TT	CC	1947016626
SNP_P4_165592_19830	NW_004516803.1	Scaffold1659	19830	GG	AA	1947016628
SNP_P4_165593_19874	NW_004516803.1	Scaffold1659	19874	TT	AA	1947016630
SNP_P4_165594_19940	NW_004516803.1	Scaffold1659	19940	AA	GG	1947016632
SNP_P4_165596_20029	NW_004516803.1	Scaffold1659	20029	TT	GG	1947016634
SNP_P4_165597_20075	NW_004516803.1	Scaffold1659	20075	CC	TT	1947016636
SNP_P4_165598_20186	NW_004516803.1	Scaffold1659	20186	TT	CC	1947016638
SNP_P4_165599_20229	NW_004516803.1	Scaffold1659	20229	AA	GG	1947016639
SNP_P4_165600_20349	NW_004516803.1	Scaffold1659	20349	GG	AA	1947016641
SNP_P4_165601_20366	NW_004516803.1	Scaffold1659	20366	AA	TT	1947016643
SNP_P4_165602_20499	NW_004516803.1	Scaffold1659	20499	TT	AA	1947016645
SNP_P4_165603_21061	NW_004516803.1	Scaffold1659	21061	AA	GG	1947016647
SNP_P4_165604_21117	NW_004516803.1	Scaffold1659	21117	GG	AA	1947016649
SNP_P4_165605_21629	NW_004516803.1	Scaffold1659	21629	CC	TT	1947016651
SNP_P4_165606_21977	NW_004516803.1	Scaffold1659	21977	GG	AA	1947016653
SNP_P4_165607_31022	NW_004516803.1	Scaffold1659	31022	AA	CC	1947016655
SNP_P4_165610_59718	NW_004516803.1	Scaffold1659	59718	AA	CC	1947016657
SNP_P4_165611_60033	NW_004516803.1	Scaffold1659	60033	TT	GG	1947016659
SNP_P4_165612_63100	NW_004516803.1	Scaffold1659	63100	AA	GG	1947016661
SNP_P4_165613_81320	NW_004516803.1	Scaffold1659	81320	TT	CC	1947016663

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_165615_81409	NW_004516803.1	Scaffold1659	81409	GG	AA	1947016667
SNP_P4_165616_82177	NW_004516803.1	Scaffold1659	82177	AA	CC	1947016669
SNP_P4_165617_96017	NW_004516803.1	Scaffold1659	96017	AA	GG	1947016671
SNP_P4_165618_96235	NW_004516803.1	Scaffold1659	96235	TT	CC	1947016673
SNP_P4_165620_105882	NW_004516803.1	Scaffold1659	105882	AA	GG	1947016675
SNP_P4_165621_123282	NW_004516803.1	Scaffold1659	123282	CC	AA	1947016677
SNP_P4_165622_123381	NW_004516803.1	Scaffold1659	123381	CC	TT	1947016679
SNP_P4_165624_130241	NW_004516803.1	Scaffold1659	130241	AA	CC	1947016681
SNP_P4_165625_135779	NW_004516803.1	Scaffold1659	135779	CC	TT	1947016683
SNP_P4_165627_167215	NW_004516803.1	Scaffold1659	167215	TT	CC	1947016685
SNP_P4_165628_167312	NW_004516803.1	Scaffold1659	167312	CC	TT	1947016687
SNP_P4_165629_171716	NW_004516803.1	Scaffold1659	171716	TT	CC	1947016689
SNP_P4_165630_171872	NW_004516803.1	Scaffold1659	171872	TT	AA	1947016691
SNP_P4_165631_172348	NW_004516803.1	Scaffold1659	172348	AA	GG	1947016693
SNP_P4_165632_172355	NW_004516803.1	Scaffold1659	172355	GG	AA	1947016695
SNP_P4_165633_195474	NW_004516803.1	Scaffold1659	195474	AA	GG	1947016697
SNP_P4_165634_217066	NW_004516803.1	Scaffold1659	217066	TT	AA	1947016699
SNP_P4_165635_217096	NW_004516803.1	Scaffold1659	217096	AA	GG	1947016700
SNP_P4_165636_217144	NW_004516803.1	Scaffold1659	217144	AA	CC	1947016702
SNP_P4_165637_217206	NW_004516803.1	Scaffold1659	217206	AA	GG	1947016704
SNP_P4_165638_217299	NW_004516803.1	Scaffold1659	217299	AA	GG	1947016706
SNP_P4_165639_217311	NW_004516803.1	Scaffold1659	217311	GG	TT	1947016708
SNP_P4_165640_217323	NW_004516803.1	Scaffold1659	217323	AA	GG	1947016710
SNP_P4_165641_219742	NW_004516803.1	Scaffold1659	219742	GG	AA	1947016712
SNP_P4_165642_242929	NW_004516803.1	Scaffold1659	242929	TT	AA	1947016714
SNP_P4_165643_242937	NW_004516803.1	Scaffold1659	242937	CC	TT	1947016716
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SNP_P4_165645_244057	NW_004516803.1	Scaffold1659	244057	CC	AA	1947016720
SNP_P4_165646_244086	NW_004516803.1	Scaffold1659	244086	TT	AA	1947016722
SNP_P4_165647_244091	NW_004516803.1	Scaffold1659	244091	CC	AA	1947016724
SNP_P4_165648_244115	NW_004516803.1	Scaffold1659	244115	CC	TT	1947016726
SNP_P4_165649_244151	NW_004516803.1	Scaffold1659	244151	AA	GG	1947016728
SNP_P4_165650_264565	NW_004516803.1	Scaffold1659	264565	AA	GG	1947016729
SNP_P4_165651_264570	NW_004516803.1	Scaffold1659	264570	TT	GG	1947016731
SNP_P4_165652_264583	NW_004516803.1	Scaffold1659	264583	AA	GG	1947016733
SNP_P4_165653_264601	NW_004516803.1	Scaffold1659	264601	TT	CC	1947016735
SNP_P4_165654_264946	NW_004516803.1	Scaffold1659	264946	TT	CC	1947016737
SNP_P4_165655_268691	NW_004516803.1	Scaffold1659	268691	AA	GG	1947016739
SNP_P4_165657_283386	NW_004516803.1	Scaffold1659	283386	TT	AA	1947016741
SNP_P4_165658_283791	NW_004516803.1	Scaffold1659	283791	AA	CC	1947016743
SNP_P4_165659_287448	NW_004516803.1	Scaffold1659	287448	GG	TT	1947016745

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_165661_287460	NW_004516803.1	Scaffold1659	287460	CC	TT	1947016749
SNP_P4_165662_287461	NW_004516803.1	Scaffold1659	287461	AA	CC	1947016751
SNP_P4_165663_287463	NW_004516803.1	Scaffold1659	287463	GG	AA	1947016753
SNP_P4_165664_287466	NW_004516803.1	Scaffold1659	287466	CC	TT	1947016755
SNP_P4_165665_287467	NW_004516803.1	Scaffold1659	287467	AA	GG	1947016757
SNP_P4_165666_287480	NW_004516803.1	Scaffold1659	287480	TT	CC	1947016759
SNP_P4_165667_287486	NW_004516803.1	Scaffold1659	287486	GG	TT	1947016761
SNP_P4_165668_287501	NW_004516803.1	Scaffold1659	287501	GG	AA	1947016763
SNP_P4_165669_287503	NW_004516803.1	Scaffold1659	287503	AA	GG	1947016765
SNP_P4_165670_287505	NW_004516803.1	Scaffold1659	287505	AA	GG	1947016767
SNP_P4_165671_294652	NW_004516803.1	Scaffold1659	294652	TT	GG	1947016769
SNP_P4_165672_294678	NW_004516803.1	Scaffold1659	294678	TT	CC	1947016771
SNP_P4_165673_294721	NW_004516803.1	Scaffold1659	294721	CC	GG	1947016773
SNP_P4_165674_294748	NW_004516803.1	Scaffold1659	294748	TT	CC	1947016776
SNP_P4_165675_294749	NW_004516803.1	Scaffold1659	294749	CC	TT	1947016778
SNP_P4_165676_294758	NW_004516803.1	Scaffold1659	294758	AA	TT	1947016780
SNP_P4_165677_294760	NW_004516803.1	Scaffold1659	294760	AA	GG	1947016782
SNP_P4_165678_308543	NW_004516803.1	Scaffold1659	308543	GG	CC	1947016784
SNP_P4_165679_331062	NW_004516803.1	Scaffold1659	331062	CC	AA	1947016786
SNP_P4_165680_346212	NW_004516803.1	Scaffold1659	346212	CC	TT	1947016788
SNP_P4_165681_355392	NW_004516803.1	Scaffold1659	355392	TT	CC	1947016790
SNP_P4_165682_355955	NW_004516803.1	Scaffold1659	355955	GG	AA	1947016792
SNP_P4_165683_355956	NW_004516803.1	Scaffold1659	355956	AA	GG	1947016794
SNP_P4_165684_355975	NW_004516803.1	Scaffold1659	355975	AA	TT	1947016796
SNP_P4_165685_356296	NW_004516803.1	Scaffold1659	356296	CC	TT	1947016798
SNP_P4_165686_356324	NW_004516803.1	Scaffold1659	356324	TT	AA	1947016800
SNP_P4_165687_359178	NW_004516803.1	Scaffold1659	359178	AA	GG	1947016802
SNP_P4_165688_359276	NW_004516803.1	Scaffold1659	359276	GG	AA	1947016804
SNP_P4_165689_364314	NW_004516803.1	Scaffold1659	364314	CC	TT	1947016806
SNP_P4_165690_364329	NW_004516803.1	Scaffold1659	364329	TT	CC	1947016807
SNP_P4_165691_374086	NW_004516803.1	Scaffold1659	374086	TT	AA	1947016809
SNP_P4_165692_374098	NW_004516803.1	Scaffold1659	374098	TT	AA	1947016811
SNP_P4_165693_385381	NW_004516803.1	Scaffold1659	385381	AA	GG	1947016813
SNP_P4_165695_416178	NW_004516803.1	Scaffold1659	416178	TT	CC	1947016815
SNP_P4_165696_436224	NW_004516803.1	Scaffold1659	436224	GG	TT	1947016817
SNP_P4_165698_437405	NW_004516803.1	Scaffold1659	437405	GG	CC	1947016819
SNP_P4_165700_466968	NW_004516803.1	Scaffold1659	466968	CC	AA	1947016821
SNP_P4_165701_467897	NW_004516803.1	Scaffold1659	467897	AA	TT	1947016823
SNP_P4_165702_468098	NW_004516803.1	Scaffold1659	468098	TT	GG	1947016825
SNP_P4_165703_468122	NW_004516803.1	Scaffold1659	468122	CC	AA	1947016827
SNP_P4_165704_468162	NW_004516803.1	Scaffold1659	468162	AA	GG	1947016829

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_165705_468541	NW_004516803.1	Scaffold1659	468541	CC	TT	1947016831
SNP_P4_165706_468543	NW_004516803.1	Scaffold1659	468543	TT	CC	1947016833
SNP_P4_165707_468562	NW_004516803.1	Scaffold1659	468562	TT	CC	1947016835
SNP_P4_165708_468601	NW_004516803.1	Scaffold1659	468601	CC	TT	1947016837
SNP_P4_165709_468608	NW_004516803.1	Scaffold1659	468608	TT	GG	1947016839
SNP_P4_165710_12242	NW_004516805.1	Scaffold1661	12242	CC	AA	1947016841
SNP_P4_165711_20783	NW_004516805.1	Scaffold1661	20783	TT	AA	1947016843
SNP_P4_165712_21348	NW_004516805.1	Scaffold1661	21348	AA	CC	1947016845
SNP_P4_165713_21355	NW_004516805.1	Scaffold1661	21355	TT	AA	1947016848
SNP_P4_165714_23513	NW_004516805.1	Scaffold1661	23513	GG	AA	1947016850
SNP_P4_165715_23514	NW_004516805.1	Scaffold1661	23514	AA	TT	1947016852
SNP_P4_165716_23561	NW_004516805.1	Scaffold1661	23561	CC	AA	1947016854
SNP_P4_165717_23562	NW_004516805.1	Scaffold1661	23562	GG	AA	1947016856
SNP_P4_165718_23578	NW_004516805.1	Scaffold1661	23578	GG	AA	1947016858
SNP_P4_165719_30243	NW_004516805.1	Scaffold1661	30243	AA	CC	1947016860
SNP_P4_165720_36838	NW_004516805.1	Scaffold1661	36838	CC	AA	1947016862
SNP_P4_165721_36840	NW_004516805.1	Scaffold1661	36840	AA	CC	1947016864
SNP_P4_165723_38474	NW_004516805.1	Scaffold1661	38474	TT	AA	1947016866
SNP_P4_165724_38678	NW_004516805.1	Scaffold1661	38678	CC	TT	1947016868
SNP_P4_165726_65819	NW_004516805.1	Scaffold1661	65819	TT	CC	1947016870
SNP_P4_165727_69767	NW_004516805.1	Scaffold1661	69767	CC	TT	1947016872
SNP_P4_165730_106640	NW_004516805.1	Scaffold1661	106640	CC	TT	1947016874
SNP_P4_165731_108925	NW_004516805.1	Scaffold1661	108925	GG	TT	1947016876
SNP_P4_165732_109778	NW_004516805.1	Scaffold1661	109778	AA	TT	1947016878
SNP_P4_165733_112777	NW_004516805.1	Scaffold1661	112777	AA	GG	1947016880
SNP_P4_165734_112859	NW_004516805.1	Scaffold1661	112859	AA	CC	1947016882
SNP_P4_165735_114454	NW_004516805.1	Scaffold1661	114454	GG	TT	1947016884
SNP_P4_165736_114467	NW_004516805.1	Scaffold1661	114467	AA	CC	1947016886
SNP_P4_165737_64	NW_004516806.1	Scaffold1663	64	AA	GG	1947016888
SNP_P4_165738_112	NW_004516806.1	Scaffold1663	112	TT	GG	1947016890
SNP_P4_165739_554	NW_004516806.1	Scaffold1663	554	TT	AA	1947016892
SNP_P4_165740_604	NW_004516806.1	Scaffold1663	604	TT	AA	1947016894
SNP_P4_165741_656	NW_004516806.1	Scaffold1663	656	AA	GG	1947016896
SNP_P4_165742_676	NW_004516806.1	Scaffold1663	676	CC	GG	1947016898
SNP_P4_165743_2638	NW_004516807.1	Scaffold1664	2638	CC	AA	1947016900
SNP_P4_165744_2661	NW_004516807.1	Scaffold1664	2661	CC	TT	1947016902
SNP_P4_165745_3029	NW_004516807.1	Scaffold1664	3029	AA	CC	1947016904
SNP_P4_165747_22691	NW_004516807.1	Scaffold1664	22691	AA	GG	1947016906
SNP_P4_165748_32674	NW_004516807.1	Scaffold1664	32674	TT	CC	1947016908
SNP_P4_165749_37796	NW_004516807.1	Scaffold1664	37796	TT	CC	1947016910
SNP_P4_165750_37815	NW_004516807.1	Scaffold1664	37815	TT	CC	1947016913
SNP_P4_165751_39595	NW_004516807.1	Scaffold1664	39595	TT	CC	1947016915

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_165753_63028	NW_004516807.1	Scaffold1664	63028	AA	CC	1947016919
SNP_P4_165754_94797	NW_004516807.1	Scaffold1664	94797	AA	GG	1947016921
SNP_P4_165755_94979	NW_004516807.1	Scaffold1664	94979	AA	GG	1947016923
SNP_P4_165756_94989	NW_004516807.1	Scaffold1664	94989	GG	AA	1947016925
SNP_P4_165757_2617	NW_004516810.1	Scaffold1673	2617	AA	GG	1947016927
SNP_P4_165758_2737	NW_004516810.1	Scaffold1673	2737	AA	TT	1947016929
SNP_P4_165759_9297	NW_004516810.1	Scaffold1673	9297	TT	GG	1947016931
SNP_P4_165760_64	NW_004516811.1	Scaffold1674	64	TT	CC	1947016933
SNP_P4_165761_65	NW_004516811.1	Scaffold1674	65	AA	GG	1947016935
SNP_P4_165762_405	NW_004516811.1	Scaffold1674	405	CC	TT	1947016937
SNP_P4_165763_511	NW_004516811.1	Scaffold1674	511	GG	TT	1947016939
SNP_P4_165765_504	NW_004516812.1	Scaffold1675	504	AA	GG	1947016941
SNP_P4_165767_895	NW_004516812.1	Scaffold1675	895	CC	GG	1947016943
SNP_P4_165768_983	NW_004516812.1	Scaffold1675	983	CC	TT	1947016944
SNP_P4_165769_994	NW_004516812.1	Scaffold1675	994	GG	AA	1947016946
SNP_P4_165770_1012	NW_004516812.1	Scaffold1675	1012	TT	GG	1947016948
SNP_P4_165771_1239	NW_004516812.1	Scaffold1675	1239	GG	AA	1947016950
SNP_P4_165772_1309	NW_004516812.1	Scaffold1675	1309	TT	CC	1947016952
SNP_P4_165773_2137	NW_004516812.1	Scaffold1675	2137	TT	CC	1947016954
SNP_P4_165774_2493	NW_004516812.1	Scaffold1675	2493	CC	GG	1947016956
SNP_P4_165776_1911	NW_004516815.1	Scaffold1680	1911	AA	TT	1947016958
SNP_P4_165777_15886	NW_004516815.1	Scaffold1680	15886	AA	TT	1947016959
SNP_P4_165778_15954	NW_004516815.1	Scaffold1680	15954	TT	CC	1947016961
SNP_P4_165779_16312	NW_004516815.1	Scaffold1680	16312	CC	GG	1947016963
SNP_P4_165780_18329	NW_004516815.1	Scaffold1680	18329	TT	CC	1947016965
SNP_P4_165781_18354	NW_004516815.1	Scaffold1680	18354	GG	AA	1947016967
SNP_P4_165782_20909	NW_004516815.1	Scaffold1680	20909	GG	TT	1947016969
SNP_P4_165783_23351	NW_004516815.1	Scaffold1680	23351	CC	TT	1947016971
SNP_P4_165784_101	NW_004516816.1	Scaffold1681	101	GG	CC	1947016973
SNP_P4_165785_294	NW_004516816.1	Scaffold1681	294	TT	CC	1947016975
SNP_P4_165786_321	NW_004516816.1	Scaffold1681	321	TT	AA	1947016977
SNP_P4_165787_411	NW_004516816.1	Scaffold1681	411	CC	GG	1947016979
SNP_P4_165788_659	NW_004516816.1	Scaffold1681	659	GG	CC	1947016981
SNP_P4_165789_689	NW_004516816.1	Scaffold1681	689	AA	GG	1947016983
SNP_P4_165790_731	NW_004516816.1	Scaffold1681	731	GG	TT	1947016985
SNP_P4_165791_743	NW_004516816.1	Scaffold1681	743	AA	CC	1947016987
SNP_P4_165792_756	NW_004516816.1	Scaffold1681	756	AA	GG	1947016989
SNP_P4_165794_958	NW_004516816.1	Scaffold1681	958	CC	TT	1947016991
SNP_P4_165795_959	NW_004516816.1	Scaffold1681	959	GG	AA	1947016993
SNP_P4_165796_974	NW_004516816.1	Scaffold1681	974	AA	GG	1947016995
SNP_P4_165797_1160	NW_004516816.1	Scaffold1681	1160	GG	TT	1947016997

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_165800_1421	NW_004516816.1	Scaffold1681	1421	AA	CC	1947017003
SNP_P4_165801_1749	NW_004516816.1	Scaffold1681	1749	CC	TT	1947017005
SNP_P4_165802_1754	NW_004516816.1	Scaffold1681	1754	TT	AA	1947017007
SNP_P4_165803_1823	NW_004516816.1	Scaffold1681	1823	AA	TT	1947017009
SNP_P4_165804_1935	NW_004516816.1	Scaffold1681	1935	GG	TT	1947017011
SNP_P4_165805_2151	NW_004516816.1	Scaffold1681	2151	GG	AA	1947017013
SNP_P4_165806_2152	NW_004516816.1	Scaffold1681	2152	CC	TT	1947017015
SNP_P4_165807_2513	NW_004516816.1	Scaffold1681	2513	GG	AA	1947017017
SNP_P4_165808_2801	NW_004516816.1	Scaffold1681	2801	AA	TT	1947017019
SNP_P4_165809_3861	NW_004516816.1	Scaffold1681	3861	GG	AA	1947017021
SNP_P4_165810_4884	NW_004516816.1	Scaffold1681	4884	CC	AA	1947017023
SNP_P4_165811_4897	NW_004516816.1	Scaffold1681	4897	CC	AA	1947017025
SNP_P4_165812_5308	NW_004516816.1	Scaffold1681	5308	GG	CC	1947017027
SNP_P4_165813_5949	NW_004516816.1	Scaffold1681	5949	TT	CC	1947017029
SNP_P4_165814_6044	NW_004516816.1	Scaffold1681	6044	AA	GG	1947017031
SNP_P4_165815_6544	NW_004516816.1	Scaffold1681	6544	CC	TT	1947017033
SNP_P4_165816_6614	NW_004516816.1	Scaffold1681	6614	TT	GG	1947017035
SNP_P4_165817_6634	NW_004516816.1	Scaffold1681	6634	AA	TT	1947017037
SNP_P4_165818_6714	NW_004516816.1	Scaffold1681	6714	AA	GG	1947017039
SNP_P4_165819_6722	NW_004516816.1	Scaffold1681	6722	AA	GG	1947017041
SNP_P4_165820_6838	NW_004516816.1	Scaffold1681	6838	GG	AA	1947017043
SNP_P4_165821_6864	NW_004516816.1	Scaffold1681	6864	CC	GG	1947017045
SNP_P4_165822_6904	NW_004516816.1	Scaffold1681	6904	CC	AA	1947017047
SNP_P4_165823_6913	NW_004516816.1	Scaffold1681	6913	CC	AA	1947017049
SNP_P4_165824_7082	NW_004516816.1	Scaffold1681	7082	AA	TT	1947017051
SNP_P4_165825_7147	NW_004516816.1	Scaffold1681	7147	AA	GG	1947017053
SNP_P4_165826_7246	NW_004516816.1	Scaffold1681	7246	GG	AA	1947017055
SNP_P4_165827_7258	NW_004516816.1	Scaffold1681	7258	TT	CC	1947017057
SNP_P4_165828_7289	NW_004516816.1	Scaffold1681	7289	TT	CC	1947017059
SNP_P4_165830_8677	NW_004516817.1	Scaffold1682	8677	CC	TT	1947017061
SNP_P4_165831_11689	NW_004516817.1	Scaffold1682	11689	GG	TT	1947017063
SNP_P4_165832_14501	NW_004516817.1	Scaffold1682	14501	CC	TT	1947017065
SNP_P4_165833_16120	NW_004516817.1	Scaffold1682	16120	AA	TT	1947017067
SNP_P4_165834_1416	NW_004516818.1	Scaffold1683	1416	AA	CC	1947017069
SNP_P4_165836_1612	NW_004516819.1	Scaffold1684	1612	AA	GG	1947017071
SNP_P4_165837_6099	NW_004516819.1	Scaffold1684	6099	CC	AA	1947017073
SNP_P4_165838_6135	NW_004516819.1	Scaffold1684	6135	AA	GG	1947017075
SNP_P4_165839_6376	NW_004516819.1	Scaffold1684	6376	GG	AA	1947017077
SNP_P4_165840_6391	NW_004516819.1	Scaffold1684	6391	GG	AA	1947017079
SNP_P4_165842_6518	NW_004516819.1	Scaffold1684	6518	TT	CC	1947017081

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_165844_21037	NW_004516819.1	Scaffold1684	21037	AA	GG	1947017085
SNP_P4_165845_22957	NW_004516819.1	Scaffold1684	22957	TT	GG	1947017087
SNP_P4_165846_23002	NW_004516819.1	Scaffold1684	23002	TT	GG	1947017089
SNP_P4_165847_23578	NW_004516819.1	Scaffold1684	23578	GG	CC	1947017091
SNP_P4_165848_24226	NW_004516819.1	Scaffold1684	24226	CC	GG	1947017093
SNP_P4_165849_24535	NW_004516819.1	Scaffold1684	24535	TT	AA	1947017095
SNP_P4_165850_24770	NW_004516819.1	Scaffold1684	24770	CC	TT	1947017097
SNP_P4_165851_28199	NW_004516819.1	Scaffold1684	28199	CC	GG	1947017099
SNP_P4_165852_28223	NW_004516819.1	Scaffold1684	28223	AA	GG	1947017101
SNP_P4_165853_28224	NW_004516819.1	Scaffold1684	28224	CC	TT	1947017103
SNP_P4_165854_28378	NW_004516819.1	Scaffold1684	28378	AA	CC	1947017105
SNP_P4_165855_28407	NW_004516819.1	Scaffold1684	28407	CC	TT	1947017107
SNP_P4_165856_28577	NW_004516819.1	Scaffold1684	28577	GG	AA	1947017109
SNP_P4_165857_28632	NW_004516819.1	Scaffold1684	28632	TT	CC	1947017111
SNP_P4_165858_28808	NW_004516819.1	Scaffold1684	28808	TT	CC	1947017113
SNP_P4_165859_28975	NW_004516819.1	Scaffold1684	28975	TT	CC	1947017115
SNP_P4_165860_28989	NW_004516819.1	Scaffold1684	28989	CC	TT	1947017117
SNP_P4_165861_29014	NW_004516819.1	Scaffold1684	29014	CC	TT	1947017119
SNP_P4_165862_29037	NW_004516819.1	Scaffold1684	29037	AA	TT	1947017121
SNP_P4_165863_29071	NW_004516819.1	Scaffold1684	29071	AA	TT	1947017123
SNP_P4_165864_29089	NW_004516819.1	Scaffold1684	29089	GG	CC	1947017125
SNP_P4_165865_29091	NW_004516819.1	Scaffold1684	29091	GG	TT	1947017127
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SNP_P4_165867_29200	NW_004516819.1	Scaffold1684	29200	TT	AA	1947017131
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SNP_P4_165870_29390	NW_004516819.1	Scaffold1684	29390	GG	AA	1947017137
SNP_P4_165871_29392	NW_004516819.1	Scaffold1684	29392	TT	AA	1947017139
SNP_P4_165872_29440	NW_004516819.1	Scaffold1684	29440	AA	TT	1947017141
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SNP_P4_165874_29494	NW_004516819.1	Scaffold1684	29494	AA	TT	1947017145
SNP_P4_165875_29533	NW_004516819.1	Scaffold1684	29533	TT	CC	1947017147
SNP_P4_165876_29552	NW_004516819.1	Scaffold1684	29552	AA	TT	1947017149
SNP_P4_165877_29563	NW_004516819.1	Scaffold1684	29563	GG	CC	1947017151
SNP_P4_165878_29637	NW_004516819.1	Scaffold1684	29637	AA	CC	1947017153
SNP_P4_165879_29673	NW_004516819.1	Scaffold1684	29673	GG	AA	1947017155
SNP_P4_165880_29692	NW_004516819.1	Scaffold1684	29692	TT	AA	1947017157
SNP_P4_165881_29726	NW_004516819.1	Scaffold1684	29726	CC	TT	1947017159
SNP_P4_165882_29742	NW_004516819.1	Scaffold1684	29742	CC	TT	1947017161
SNP_P4_165883_29778	NW_004516819.1	Scaffold1684	29778	TT	CC	1947017163
SNP_P4_165884_29994	NW_004516819.1	Scaffold1684	29994	CC	TT	1947017165

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_165886_32414	NW_004516819.1	Scaffold1684	32414	AA	GG	1947017169
SNP_P4_165887_32427	NW_004516819.1	Scaffold1684	32427	TT	CC	1947017171
SNP_P4_165888_33542	NW_004516819.1	Scaffold1684	33542	CC	TT	1947017173
SNP_P4_165889_40359	NW_004516819.1	Scaffold1684	40359	AA	TT	1947017175
SNP_P4_165890_40559	NW_004516819.1	Scaffold1684	40559	TT	GG	1947017177
SNP_P4_165891_40602	NW_004516819.1	Scaffold1684	40602	CC	TT	1947017179
SNP_P4_165892_40652	NW_004516819.1	Scaffold1684	40652	GG	AA	1947017181
SNP_P4_165893_40667	NW_004516819.1	Scaffold1684	40667	GG	CC	1947017183
SNP_P4_165894_40850	NW_004516819.1	Scaffold1684	40850	GG	TT	1947017185
SNP_P4_165895_44572	NW_004516819.1	Scaffold1684	44572	CC	TT	1947017187
SNP_P4_165896_44758	NW_004516819.1	Scaffold1684	44758	AA	GG	1947017189
SNP_P4_165897_60347	NW_004516819.1	Scaffold1684	60347	AA	CC	1947017191
SNP_P4_165898_62694	NW_004516819.1	Scaffold1684	62694	CC	TT	1947017193
SNP_P4_165900_62991	NW_004516819.1	Scaffold1684	62991	AA	GG	1947017195
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SNP_P4_165905_69406	NW_004516819.1	Scaffold1684	69406	CC	GG	1947017203
SNP_P4_165906_70897	NW_004516819.1	Scaffold1684	70897	GG	AA	1947017205
SNP_P4_165907_71205	NW_004516819.1	Scaffold1684	71205	AA	TT	1947017207
SNP_P4_165908_71276	NW_004516819.1	Scaffold1684	71276	AA	GG	1947017209
SNP_P4_165909_71306	NW_004516819.1	Scaffold1684	71306	CC	TT	1947017211
SNP_P4_165910_71329	NW_004516819.1	Scaffold1684	71329	GG	AA	1947017213
SNP_P4_165911_71460	NW_004516819.1	Scaffold1684	71460	AA	TT	1947017215
SNP_P4_165912_71612	NW_004516819.1	Scaffold1684	71612	TT	CC	1947017217
SNP_P4_165913_71756	NW_004516819.1	Scaffold1684	71756	TT	GG	1947017219
SNP_P4_165915_3663	NW_004516820.1	Scaffold1685	3663	CC	TT	1947017221
SNP_P4_165916_15469	NW_004516820.1	Scaffold1685	15469	TT	GG	1947017223
SNP_P4_165917_15476	NW_004516820.1	Scaffold1685	15476	TT	CC	1947017226
SNP_P4_165918_15554	NW_004516820.1	Scaffold1685	15554	TT	AA	1947017228
SNP_P4_165919_15717	NW_004516820.1	Scaffold1685	15717	TT	AA	1947017230
SNP_P4_165920_33002	NW_004516820.1	Scaffold1685	33002	CC	TT	1947017232
SNP_P4_165921_33007	NW_004516820.1	Scaffold1685	33007	CC	TT	1947017234
SNP_P4_165922_33394	NW_004516820.1	Scaffold1685	33394	TT	CC	1947017236
SNP_P4_165923_53481	NW_004516820.1	Scaffold1685	53481	CC	TT	1947017238
SNP_P4_165924_53511	NW_004516820.1	Scaffold1685	53511	TT	GG	1947017240
SNP_P4_165925_53519	NW_004516820.1	Scaffold1685	53519	GG	AA	1947017242
SNP_P4_165926_53520	NW_004516820.1	Scaffold1685	53520	AA	GG	1947017243
SNP_P4_165927_64700	NW_004516820.1	Scaffold1685	64700	AA	TT	1947017244
SNP_P4_165928_64716	NW_004516820.1	Scaffold1685	64716	AA	CC	1947017245
SNP_P4_165929_64750	NW_004516820.1	Scaffold1685	64750	CC	TT	1947017246

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_165930_64797	NW_004516820.1	Scaffold1685	64797	GG	CC	1947017247
SNP_P4_165931_77045	NW_004516820.1	Scaffold1685	77045	GG	CC	1947017249
SNP_P4_165932_77056	NW_004516820.1	Scaffold1685	77056	AA	GG	1947017251
SNP_P4_165933_77067	NW_004516820.1	Scaffold1685	77067	CC	TT	1947017253
SNP_P4_165934_77372	NW_004516820.1	Scaffold1685	77372	TT	AA	1947017255
SNP_P4_165935_83235	NW_004516820.1	Scaffold1685	83235	AA	CC	1947017256
SNP_P4_165936_83301	NW_004516820.1	Scaffold1685	83301	CC	TT	1947017257
SNP_P4_165937_86036	NW_004516820.1	Scaffold1685	86036	GG	AA	1947017259
SNP_P4_165938_88372	NW_004516820.1	Scaffold1685	88372	CC	GG	1947017261
SNP_P4_165939_88573	NW_004516820.1	Scaffold1685	88573	TT	CC	1947017262
SNP_P4_165940_88825	NW_004516820.1	Scaffold1685	88825	AA	TT	1947017264
SNP_P4_165941_88828	NW_004516820.1	Scaffold1685	88828	TT	CC	1947017266
SNP_P4_165942_88885	NW_004516820.1	Scaffold1685	88885	AA	CC	1947017268
SNP_P4_165943_89145	NW_004516820.1	Scaffold1685	89145	CC	TT	1947017270
SNP_P4_165944_89167	NW_004516820.1	Scaffold1685	89167	CC	GG	1947017272
SNP_P4_165945_89209	NW_004516820.1	Scaffold1685	89209	TT	CC	1947017274
SNP_P4_165947_116808	NW_004516820.1	Scaffold1685	116808	AA	CC	1947017276
SNP_P4_165948_125183	NW_004516820.1	Scaffold1685	125183	AA	TT	1947017278
SNP_P4_165949_125184	NW_004516820.1	Scaffold1685	125184	TT	AA	1947017280
SNP_P4_165950_127668	NW_004516820.1	Scaffold1685	127668	GG	CC	1947017282
SNP_P4_165951_128118	NW_004516820.1	Scaffold1685	128118	AA	GG	1947017284
SNP_P4_165952_129113	NW_004516820.1	Scaffold1685	129113	CC	AA	1947017286
SNP_P4_165953_130826	NW_004516820.1	Scaffold1685	130826	GG	AA	1947017288
SNP_P4_165954_131144	NW_004516820.1	Scaffold1685	131144	CC	TT	1947017290
SNP_P4_165955_131148	NW_004516820.1	Scaffold1685	131148	CC	TT	1947017292
SNP_P4_165956_131151	NW_004516820.1	Scaffold1685	131151	CC	TT	1947017294
SNP_P4_165957_154	NW_004516821.1	Scaffold1686	154	GG	TT	1947017296
SNP_P4_165958_155	NW_004516821.1	Scaffold1686	155	TT	GG	1947017298
SNP_P4_165959_54361	NW_004516822.1	Scaffold1687	54361	TT	CC	1947017300
SNP_P4_165961_80637	NW_004516822.1	Scaffold1687	80637	TT	AA	1947017302
SNP_P4_165962_85085	NW_004516822.1	Scaffold1687	85085	AA	GG	1947017304
SNP_P4_165963_85088	NW_004516822.1	Scaffold1687	85088	AA	GG	1947017306
SNP_P4_165964_97267	NW_004516822.1	Scaffold1687	97267	AA	GG	1947017308
SNP_P4_165966_103007	NW_004516822.1	Scaffold1687	103007	AA	GG	1947017310
SNP_P4_165967_103257	NW_004516822.1	Scaffold1687	103257	AA	CC	1947017312
SNP_P4_165968_103334	NW_004516822.1	Scaffold1687	103334	TT	GG	1947017314
SNP_P4_165969_103339	NW_004516822.1	Scaffold1687	103339	AA	GG	1947017316
SNP_P4_165970_144609	NW_004516822.1	Scaffold1687	144609	GG	AA	1947017318
SNP_P4_165971_144623	NW_004516822.1	Scaffold1687	144623	TT	GG	1947017319
SNP_P4_165972_144636	NW_004516822.1	Scaffold1687	144636	AA	GG	1947017321
SNP_P4_165973_144637	NW_004516822.1	Scaffold1687	144637	GG	AA	1947017323
SNP_P4_165974_144662	NW_004516822.1	Scaffold1687	144662	CC	AA	1947017325

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_165976_144671	NW_004516822.1	Scaffold1687	144671	GG	AA	1947017329
SNP_P4_165977_144859	NW_004516822.1	Scaffold1687	144859	TT	CC	1947017331
SNP_P4_165978_144911	NW_004516822.1	Scaffold1687	144911	TT	AA	1947017333
SNP_P4_165979_145322	NW_004516822.1	Scaffold1687	145322	CC	TT	1947017335
SNP_P4_165980_150652	NW_004516822.1	Scaffold1687	150652	GG	AA	1947017337
SNP_P4_165981_153085	NW_004516822.1	Scaffold1687	153085	TT	CC	1947017339
SNP_P4_165983_169442	NW_004516822.1	Scaffold1687	169442	AA	GG	1947017341
SNP_P4_165984_177663	NW_004516822.1	Scaffold1687	177663	TT	CC	1947017343
SNP_P4_165985_180732	NW_004516822.1	Scaffold1687	180732	TT	CC	1947017345
SNP_P4_165986_192103	NW_004516822.1	Scaffold1687	192103	GG	AA	1947017347
SNP_P4_165987_196662	NW_004516822.1	Scaffold1687	196662	TT	CC	1947017349
SNP_P4_165988_196971	NW_004516822.1	Scaffold1687	196971	AA	CC	1947017351
SNP_P4_165989_209547	NW_004516822.1	Scaffold1687	209547	GG	AA	1947017353
SNP_P4_165990_210303	NW_004516822.1	Scaffold1687	210303	CC	TT	1947017355
SNP_P4_165991_223399	NW_004516822.1	Scaffold1687	223399	CC	TT	1947017357
SNP_P4_165992_224096	NW_004516822.1	Scaffold1687	224096	GG	AA	1947017359
SNP_P4_165993_224163	NW_004516822.1	Scaffold1687	224163	TT	CC	1947017361
SNP_P4_165995_1985	NW_004516823.1	Scaffold1688	1985	GG	TT	1947017363
SNP_P4_165996_2221	NW_004516823.1	Scaffold1688	2221	GG	AA	1947017365
SNP_P4_165997_2342	NW_004516823.1	Scaffold1688	2342	AA	TT	1947017367
SNP_P4_165998_2365	NW_004516823.1	Scaffold1688	2365	TT	CC	1947017369
SNP_P4_165999_2378	NW_004516823.1	Scaffold1688	2378	TT	CC	1947017371
SNP_P4_166000_2423	NW_004516823.1	Scaffold1688	2423	AA	GG	1947017373
SNP_P4_166001_2431	NW_004516823.1	Scaffold1688	2431	TT	CC	1947017375
SNP_P4_166002_2432	NW_004516823.1	Scaffold1688	2432	CC	GG	1947017377
SNP_P4_166003_1821	NW_004516824.1	Scaffold1689	1821	AA	CC	1947017379
SNP_P4_166004_5728	NW_004516825.1	Scaffold1690	5728	TT	GG	1947017381
SNP_P4_166005_2363	NW_004516829.1	Scaffold1695	2363	TT	CC	1947017383
SNP_P4_166006_2414	NW_004516829.1	Scaffold1695	2414	GG	AA	1947017385
SNP_P4_166007_2684	NW_004516829.1	Scaffold1695	2684	TT	CC	1947017387
SNP_P4_166008_2727	NW_004516829.1	Scaffold1695	2727	GG	TT	1947017389
SNP_P4_166009_2744	NW_004516829.1	Scaffold1695	2744	CC	TT	1947017391
SNP_P4_166010_4467	NW_004516829.1	Scaffold1695	4467	GG	AA	1947017393
SNP_P4_166011_6193	NW_004516829.1	Scaffold1695	6193	GG	AA	1947017395
SNP_P4_166012_6218	NW_004516829.1	Scaffold1695	6218	CC	TT	1947017397
SNP_P4_166013_716	NW_004516830.1	Scaffold1696	716	GG	AA	1947017399
SNP_P4_166014_3949	NW_004516830.1	Scaffold1696	3949	AA	TT	1947017401
SNP_P4_166015_3982	NW_004516830.1	Scaffold1696	3982	AA	TT	1947017403
SNP_P4_166016_4076	NW_004516830.1	Scaffold1696	4076	AA	GG	1947017405
SNP_P4_166017_4137	NW_004516830.1	Scaffold1696	4137	CC	TT	1947017407
SNP_P4_166019_4571	NW_004516830.1	Scaffold1696	4571	TT	CC	1947017409

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_166020_4637	NW_004516830.1	Scaffold1696	4637	AA	GG	1947017411
SNP_P4_166021_4739	NW_004516830.1	Scaffold1696	4739	TT	AA	1947017413
SNP_P4_166022_4762	NW_004516830.1	Scaffold1696	4762	TT	CC	1947017415
SNP_P4_166023_4771	NW_004516830.1	Scaffold1696	4771	AA	TT	1947017417
SNP_P4_166024_4875	NW_004516830.1	Scaffold1696	4875	TT	CC	1947017419
SNP_P4_166025_4930	NW_004516830.1	Scaffold1696	4930	CC	GG	1947017421
SNP_P4_166026_4948	NW_004516830.1	Scaffold1696	4948	CC	TT	1947017423
SNP_P4_166027_5007	NW_004516830.1	Scaffold1696	5007	CC	TT	1947017425
SNP_P4_166028_5008	NW_004516830.1	Scaffold1696	5008	GG	CC	1947017427
SNP_P4_166029_5088	NW_004516830.1	Scaffold1696	5088	CC	TT	1947017429
SNP_P4_166030_5104	NW_004516830.1	Scaffold1696	5104	GG	AA	1947017431
SNP_P4_166031_5134	NW_004516830.1	Scaffold1696	5134	TT	AA	1947017433
SNP_P4_166032_5198	NW_004516830.1	Scaffold1696	5198	GG	AA	1947017435
SNP_P4_166033_5308	NW_004516830.1	Scaffold1696	5308	TT	GG	1947017437
SNP_P4_166034_5348	NW_004516830.1	Scaffold1696	5348	CC	AA	1947017439
SNP_P4_166036_5448	NW_004516830.1	Scaffold1696	5448	AA	GG	1947017441
SNP_P4_166037_5532	NW_004516830.1	Scaffold1696	5532	CC	AA	1947017443
SNP_P4_166038_5631	NW_004516830.1	Scaffold1696	5631	TT	AA	1947017445
SNP_P4_166039_5703	NW_004516830.1	Scaffold1696	5703	AA	TT	1947017447
SNP_P4_166040_5719	NW_004516830.1	Scaffold1696	5719	CC	AA	1947017449
SNP_P4_166041_6717	NW_004516830.1	Scaffold1696	6717	AA	GG	1947017451
SNP_P4_166042_6775	NW_004516830.1	Scaffold1696	6775	GG	CC	1947017453
SNP_P4_166043_6786	NW_004516830.1	Scaffold1696	6786	GG	AA	1947017455
SNP_P4_166045_7117	NW_004516830.1	Scaffold1696	7117	GG	TT	1947017457
SNP_P4_166046_7997	NW_004516830.1	Scaffold1696	7997	CC	TT	1947017459
SNP_P4_166047_8230	NW_004516830.1	Scaffold1696	8230	AA	CC	1947017461
SNP_P4_166048_8249	NW_004516830.1	Scaffold1696	8249	GG	AA	1947017463
SNP_P4_166049_8369	NW_004516830.1	Scaffold1696	8369	CC	AA	1947017465
SNP_P4_166050_8383	NW_004516830.1	Scaffold1696	8383	CC	TT	1947017466
SNP_P4_166051_10603	NW_004516830.1	Scaffold1696	10603	AA	CC	1947017468
SNP_P4_166052_10695	NW_004516830.1	Scaffold1696	10695	TT	AA	1947017470
SNP_P4_166053_12369	NW_004516830.1	Scaffold1696	12369	TT	CC	1947017472
SNP_P4_166054_12372	NW_004516830.1	Scaffold1696	12372	GG	AA	1947017474
SNP_P4_166055_12396	NW_004516830.1	Scaffold1696	12396	CC	TT	1947017476
SNP_P4_166056_12510	NW_004516830.1	Scaffold1696	12510	TT	CC	1947017478
SNP_P4_166057_12572	NW_004516830.1	Scaffold1696	12572	CC	TT	1947017480
SNP_P4_166058_12584	NW_004516830.1	Scaffold1696	12584	CC	TT	1947017482
SNP_P4_166059_12704	NW_004516830.1	Scaffold1696	12704	AA	GG	1947017484
SNP_P4_166060_12711	NW_004516830.1	Scaffold1696	12711	GG	AA	1947017486
SNP_P4_166061_12754	NW_004516830.1	Scaffold1696	12754	TT	CC	1947017488
SNP_P4_166062_12853	NW_004516830.1	Scaffold1696	12853	AA	GG	1947017490
SNP_P4_166063_12901	NW_004516830.1	Scaffold1696	12901	CC	AA	1947017492

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_166065_12951	NW_004516830.1	Scaffold1696	12951	CC	AA	1947017496
SNP_P4_166066_12956	NW_004516830.1	Scaffold1696	12956	TT	CC	1947017498
SNP_P4_166067_12957	NW_004516830.1	Scaffold1696	12957	GG	AA	1947017500
SNP_P4_166068_13432	NW_004516830.1	Scaffold1696	13432	TT	CC	1947017502
SNP_P4_166069_14513	NW_004516830.1	Scaffold1696	14513	TT	CC	1947017504
SNP_P4_166070_15919	NW_004516830.1	Scaffold1696	15919	AA	TT	1947017506
SNP_P4_166071_15923	NW_004516830.1	Scaffold1696	15923	CC	AA	1947017508
SNP_P4_166072_15979	NW_004516830.1	Scaffold1696	15979	TT	CC	1947017510
SNP_P4_166073_16022	NW_004516830.1	Scaffold1696	16022	TT	GG	1947017511
SNP_P4_166074_16104	NW_004516830.1	Scaffold1696	16104	AA	CC	1947017513
SNP_P4_166075_16268	NW_004516830.1	Scaffold1696	16268	GG	CC	1947017515
SNP_P4_166076_16362	NW_004516830.1	Scaffold1696	16362	CC	AA	1947017517
SNP_P4_166077_16431	NW_004516830.1	Scaffold1696	16431	GG	AA	1947017519
SNP_P4_166078_16516	NW_004516830.1	Scaffold1696	16516	AA	TT	1947017521
SNP_P4_166079_20096	NW_004516830.1	Scaffold1696	20096	AA	CC	1947017523
SNP_P4_166080_20172	NW_004516830.1	Scaffold1696	20172	CC	TT	1947017525
SNP_P4_166081_20255	NW_004516830.1	Scaffold1696	20255	TT	CC	1947017527
SNP_P4_166082_20355	NW_004516830.1	Scaffold1696	20355	TT	CC	1947017528
SNP_P4_166083_20420	NW_004516830.1	Scaffold1696	20420	AA	TT	1947017530
SNP_P4_166084_20465	NW_004516830.1	Scaffold1696	20465	CC	TT	1947017532
SNP_P4_166085_20483	NW_004516830.1	Scaffold1696	20483	AA	GG	1947017534
SNP_P4_166086_20494	NW_004516830.1	Scaffold1696	20494	CC	AA	1947017536
SNP_P4_166087_20499	NW_004516830.1	Scaffold1696	20499	AA	CC	1947017538
SNP_P4_166088_20758	NW_004516830.1	Scaffold1696	20758	CC	AA	1947017540
SNP_P4_166089_20899	NW_004516830.1	Scaffold1696	20899	CC	TT	1947017542
SNP_P4_166090_21130	NW_004516830.1	Scaffold1696	21130	CC	AA	1947017544
SNP_P4_166091_21252	NW_004516830.1	Scaffold1696	21252	GG	TT	1947017546
SNP_P4_166092_21270	NW_004516830.1	Scaffold1696	21270	AA	GG	1947017548
SNP_P4_166093_21318	NW_004516830.1	Scaffold1696	21318	TT	CC	1947017549
SNP_P4_166094_21357	NW_004516830.1	Scaffold1696	21357	AA	TT	1947017551
SNP_P4_166095_21449	NW_004516830.1	Scaffold1696	21449	TT	AA	1947017553
SNP_P4_166096_21459	NW_004516830.1	Scaffold1696	21459	GG	CC	1947017555
SNP_P4_166097_21486	NW_004516830.1	Scaffold1696	21486	GG	AA	1947017557
SNP_P4_166098_21527	NW_004516830.1	Scaffold1696	21527	CC	TT	1947017559
SNP_P4_166099_21534	NW_004516830.1	Scaffold1696	21534	AA	GG	1947017561
SNP_P4_166100_21582	NW_004516830.1	Scaffold1696	21582	GG	AA	1947017563
SNP_P4_166101_21614	NW_004516830.1	Scaffold1696	21614	TT	CC	1947017565
SNP_P4_166102_21648	NW_004516830.1	Scaffold1696	21648	AA	TT	1947017567
SNP_P4_166103_21665	NW_004516830.1	Scaffold1696	21665	AA	CC	1947017569
SNP_P4_166104_21677	NW_004516830.1	Scaffold1696	21677	CC	TT	1947017570
SNP_P4_166105_22924	NW_004516830.1	Scaffold1696	22924	AA	GG	1947017572

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_166107_23140	NW_004516830.1	Scaffold1696	23140	CC	GG	1947017576
SNP_P4_166108_23179	NW_004516830.1	Scaffold1696	23179	CC	TT	1947017578
SNP_P4_166109_376	NW_004516832.1	Scaffold1699	376	AA	GG	1947017580
SNP_P4_166110_409	NW_004516832.1	Scaffold1699	409	GG	CC	1947017582
SNP_P4_166111_450	NW_004516832.1	Scaffold1699	450	AA	TT	1947017584
SNP_P4_166112_456	NW_004516832.1	Scaffold1699	456	GG	AA	1947017586
SNP_P4_166113_540	NW_004516832.1	Scaffold1699	540	CC	GG	1947017588
SNP_P4_166114_811	NW_004516832.1	Scaffold1699	811	AA	TT	1947017590
SNP_P4_166115_846	NW_004516832.1	Scaffold1699	846	AA	CC	1947017592
SNP_P4_166116_859	NW_004516832.1	Scaffold1699	859	GG	AA	1947017594
SNP_P4_166117_927	NW_004516832.1	Scaffold1699	927	TT	GG	1947017595
SNP_P4_166118_1439	NW_004516832.1	Scaffold1699	1439	CC	TT	1947017597
SNP_P4_166119_1504	NW_004516832.1	Scaffold1699	1504	AA	GG	1947017599
SNP_P4_166120_1670	NW_004516832.1	Scaffold1699	1670	AA	GG	1947017601
SNP_P4_166121_1686	NW_004516832.1	Scaffold1699	1686	AA	CC	1947017603
SNP_P4_166122_1814	NW_004516832.1	Scaffold1699	1814	CC	TT	1947017605
SNP_P4_166123_2129	NW_004516832.1	Scaffold1699	2129	GG	TT	1947017607
SNP_P4_166124_16039	NW_004516832.1	Scaffold1699	16039	TT	CC	1947017609
SNP_P4_166125_17230	NW_004516832.1	Scaffold1699	17230	GG	AA	1947017611
SNP_P4_166126_20010	NW_004516832.1	Scaffold1699	20010	AA	CC	1947017613
SNP_P4_166127_7001	NW_004516833.1	Scaffold1701	7001	GG	CC	1947017615
SNP_P4_166128_21467	NW_004516833.1	Scaffold1701	21467	TT	GG	1947017617
SNP_P4_166129_25921	NW_004516833.1	Scaffold1701	25921	TT	CC	1947017619
SNP_P4_166130_26252	NW_004516833.1	Scaffold1701	26252	TT	GG	1947017620
SNP_P4_166131_26256	NW_004516833.1	Scaffold1701	26256	AA	TT	1947017622
SNP_P4_166132_26261	NW_004516833.1	Scaffold1701	26261	TT	AA	1947017624
SNP_P4_166133_26720	NW_004516833.1	Scaffold1701	26720	AA	GG	1947017626
SNP_P4_166134_26924	NW_004516833.1	Scaffold1701	26924	CC	TT	1947017628
SNP_P4_166135_26942	NW_004516833.1	Scaffold1701	26942	AA	GG	1947017630
SNP_P4_166136_26947	NW_004516833.1	Scaffold1701	26947	TT	GG	1947017632
SNP_P4_166137_26960	NW_004516833.1	Scaffold1701	26960	CC	AA	1947017634
SNP_P4_166138_26984	NW_004516833.1	Scaffold1701	26984	AA	GG	1947017636
SNP_P4_166139_27023	NW_004516833.1	Scaffold1701	27023	CC	AA	1947017638
SNP_P4_166140_27027	NW_004516833.1	Scaffold1701	27027	CC	GG	1947017640
SNP_P4_166141_27053	NW_004516833.1	Scaffold1701	27053	TT	CC	1947017642
SNP_P4_166142_27064	NW_004516833.1	Scaffold1701	27064	TT	GG	1947017644
SNP_P4_166143_28337	NW_004516833.1	Scaffold1701	28337	TT	GG	1947017645
SNP_P4_166144_37626	NW_004516833.1	Scaffold1701	37626	AA	GG	1947017647
SNP_P4_166145_37779	NW_004516833.1	Scaffold1701	37779	GG	TT	1947017649
SNP_P4_166146_37936	NW_004516833.1	Scaffold1701	37936	AA	CC	1947017651
SNP_P4_166147_37946	NW_004516833.1	Scaffold1701	37946	CC	TT	1947017653

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_166148_40247	NW_004516833.1	Scaffold1701	40247	CC	TT	1947017655
SNP_P4_166149_40324	NW_004516833.1	Scaffold1701	40324	CC	AA	1947017657
SNP_P4_166150_40331	NW_004516833.1	Scaffold1701	40331	AA	GG	1947017659
SNP_P4_166151_54170	NW_004516833.1	Scaffold1701	54170	AA	GG	1947017661
SNP_P4_166152_54179	NW_004516833.1	Scaffold1701	54179	TT	GG	1947017663
SNP_P4_166153_54190	NW_004516833.1	Scaffold1701	54190	GG	CC	1947017665
SNP_P4_166154_54202	NW_004516833.1	Scaffold1701	54202	AA	TT	1947017667
SNP_P4_166155_54358	NW_004516833.1	Scaffold1701	54358	CC	AA	1947017669
SNP_P4_166156_54410	NW_004516833.1	Scaffold1701	54410	TT	CC	1947017670
SNP_P4_166157_55951	NW_004516833.1	Scaffold1701	55951	GG	TT	1947017672
SNP_P4_166158_56972	NW_004516833.1	Scaffold1701	56972	GG	TT	1947017674
SNP_P4_166159_57677	NW_004516833.1	Scaffold1701	57677	AA	CC	1947017676
SNP_P4_166160_57734	NW_004516833.1	Scaffold1701	57734	TT	CC	1947017678
SNP_P4_166161_57739	NW_004516833.1	Scaffold1701	57739	AA	GG	1947017680
SNP_P4_166162_57760	NW_004516833.1	Scaffold1701	57760	GG	AA	1947017682
SNP_P4_166163_57902	NW_004516833.1	Scaffold1701	57902	TT	CC	1947017684
SNP_P4_166164_57906	NW_004516833.1	Scaffold1701	57906	TT	AA	1947017686
SNP_P4_166165_57912	NW_004516833.1	Scaffold1701	57912	TT	AA	1947017687
SNP_P4_166166_57945	NW_004516833.1	Scaffold1701	57945	TT	CC	1947017689
SNP_P4_166167_68115	NW_004516833.1	Scaffold1701	68115	AA	GG	1947017691
SNP_P4_166168_76961	NW_004516833.1	Scaffold1701	76961	GG	CC	1947017693
SNP_P4_166169_86540	NW_004516833.1	Scaffold1701	86540	GG	CC	1947017695
SNP_P4_166170_86557	NW_004516833.1	Scaffold1701	86557	TT	AA	1947017697
SNP_P4_166171_86567	NW_004516833.1	Scaffold1701	86567	GG	AA	1947017699
SNP_P4_166172_86607	NW_004516833.1	Scaffold1701	86607	CC	TT	1947017701
SNP_P4_166173_86612	NW_004516833.1	Scaffold1701	86612	GG	AA	1947017703
SNP_P4_166174_86613	NW_004516833.1	Scaffold1701	86613	GG	TT	1947017705
SNP_P4_166175_86623	NW_004516833.1	Scaffold1701	86623	CC	AA	1947017706
SNP_P4_166176_86656	NW_004516833.1	Scaffold1701	86656	CC	TT	1947017708
SNP_P4_166177_86770	NW_004516833.1	Scaffold1701	86770	AA	GG	1947017710
SNP_P4_166178_86771	NW_004516833.1	Scaffold1701	86771	AA	CC	1947017712
SNP_P4_166179_95564	NW_004516833.1	Scaffold1701	95564	GG	CC	1947017714
SNP_P4_166180_95571	NW_004516833.1	Scaffold1701	95571	AA	TT	1947017716
SNP_P4_166181_97131	NW_004516833.1	Scaffold1701	97131	GG	AA	1947017718
SNP_P4_166183_101192	NW_004516833.1	Scaffold1701	101192	TT	CC	1947017720
SNP_P4_166184_101230	NW_004516833.1	Scaffold1701	101230	TT	CC	1947017722
SNP_P4_166185_101256	NW_004516833.1	Scaffold1701	101256	GG	AA	1947017724
SNP_P4_166186_106163	NW_004516833.1	Scaffold1701	106163	TT	CC	1947017725
SNP_P4_166187_106728	NW_004516833.1	Scaffold1701	106728	TT	GG	1947017727
SNP_P4_166188_111656	NW_004516833.1	Scaffold1701	111656	TT	CC	1947017729
SNP_P4_166190_126250	NW_004516833.1	Scaffold1701	126250	TT	GG	1947017731
SNP_P4_166192_126569	NW_004516833.1	Scaffold1701	126569	AA	GG	1947017733

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_166193_126571	NW_004516833.1	Scaffold1701	126571	AA	CC	1947017735
SNP_P4_166194_126581	NW_004516833.1	Scaffold1701	126581	AA	CC	1947017737
SNP_P4_166195_141538	NW_004516833.1	Scaffold1701	141538	GG	AA	1947017739
SNP_P4_166196_142670	NW_004516833.1	Scaffold1701	142670	AA	GG	1947017741
SNP_P4_166197_142751	NW_004516833.1	Scaffold1701	142751	CC	TT	1947017743
SNP_P4_166198_144785	NW_004516833.1	Scaffold1701	144785	AA	CC	1947017745
SNP_P4_166199_145146	NW_004516833.1	Scaffold1701	145146	TT	GG	1947017747
SNP_P4_166200_150762	NW_004516833.1	Scaffold1701	150762	GG	AA	1947017749
SNP_P4_166201_151013	NW_004516833.1	Scaffold1701	151013	TT	GG	1947017751
SNP_P4_166202_151014	NW_004516833.1	Scaffold1701	151014	CC	TT	1947017753
SNP_P4_166203_151979	NW_004516833.1	Scaffold1701	151979	CC	TT	1947017755
SNP_P4_166204_23790	NW_004516835.1	Scaffold1703	23790	TT	CC	1947017757
SNP_P4_166205_37702	NW_004516835.1	Scaffold1703	37702	CC	TT	1947017759
SNP_P4_166206_48256	NW_004516835.1	Scaffold1703	48256	TT	CC	1947017761
SNP_P4_166207_86499	NW_004516835.1	Scaffold1703	86499	CC	AA	1947017763
SNP_P4_166208_112847	NW_004516835.1	Scaffold1703	112847	CC	GG	1947017765
SNP_P4_166209_112849	NW_004516835.1	Scaffold1703	112849	TT	CC	1947017767
SNP_P4_166210_130609	NW_004516835.1	Scaffold1703	130609	TT	CC	1947017769
SNP_P4_166211_130642	NW_004516835.1	Scaffold1703	130642	GG	AA	1947017771
SNP_P4_166212_130670	NW_004516835.1	Scaffold1703	130670	TT	CC	1947017773
SNP_P4_166213_130696	NW_004516835.1	Scaffold1703	130696	CC	TT	1947017775
SNP_P4_166214_130722	NW_004516835.1	Scaffold1703	130722	TT	CC	1947017777
SNP_P4_166215_130744	NW_004516835.1	Scaffold1703	130744	CC	TT	1947017779
SNP_P4_166216_130759	NW_004516835.1	Scaffold1703	130759	TT	CC	1947017781
SNP_P4_166217_130911	NW_004516835.1	Scaffold1703	130911	AA	GG	1947017783
SNP_P4_166218_130923	NW_004516835.1	Scaffold1703	130923	AA	GG	1947017785
SNP_P4_166219_130935	NW_004516835.1	Scaffold1703	130935	CC	AA	1947017787
SNP_P4_166220_130943	NW_004516835.1	Scaffold1703	130943	GG	AA	1947017789
SNP_P4_166221_131007	NW_004516835.1	Scaffold1703	131007	AA	GG	1947017791
SNP_P4_166223_137618	NW_004516835.1	Scaffold1703	137618	GG	AA	1947017793
SNP_P4_166224_165049	NW_004516835.1	Scaffold1703	165049	GG	AA	1947017795
SNP_P4_166225_165274	NW_004516835.1	Scaffold1703	165274	TT	GG	1947017797
SNP_P4_166226_165319	NW_004516835.1	Scaffold1703	165319	TT	GG	1947017799
SNP_P4_166227_165327	NW_004516835.1	Scaffold1703	165327	TT	GG	1947017801
SNP_P4_166228_171135	NW_004516835.1	Scaffold1703	171135	AA	GG	1947017803
SNP_P4_166229_178085	NW_004516835.1	Scaffold1703	178085	AA	CC	1947017805
SNP_P4_166230_200062	NW_004516835.1	Scaffold1703	200062	CC	TT	1947017807
SNP_P4_166231_200147	NW_004516835.1	Scaffold1703	200147	TT	AA	1947017809
SNP_P4_166232_200679	NW_004516835.1	Scaffold1703	200679	TT	CC	1947017811
SNP_P4_166233_220939	NW_004516835.1	Scaffold1703	220939	TT	GG	1947017813
SNP_P4_166234_220951	NW_004516835.1	Scaffold1703	220951	AA	CC	1947017815
SNP_P4_166235_220990	NW_004516835.1	Scaffold1703	220990	TT	GG	1947017816

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_166236_223074	NW_004516835.1	Scaffold1703	223074	GG	AA	1947017818
SNP_P4_166237_223111	NW_004516835.1	Scaffold1703	223111	TT	CC	1947017820
SNP_P4_166238_223126	NW_004516835.1	Scaffold1703	223126	GG	AA	1947017822
SNP_P4_166239_232358	NW_004516835.1	Scaffold1703	232358	CC	TT	1947017824
SNP_P4_166240_232590	NW_004516835.1	Scaffold1703	232590	AA	GG	1947017826
SNP_P4_166241_242726	NW_004516835.1	Scaffold1703	242726	GG	AA	1947017828
SNP_P4_166242_251983	NW_004516835.1	Scaffold1703	251983	CC	TT	1947017830
SNP_P4_166243_262400	NW_004516835.1	Scaffold1703	262400	AA	TT	1947017832
SNP_P4_166244_277824	NW_004516835.1	Scaffold1703	277824	CC	TT	1947017834
SNP_P4_166246_299980	NW_004516835.1	Scaffold1703	299980	AA	CC	1947017836
SNP_P4_166247_8790	NW_004516836.1	Scaffold1704	8790	AA	GG	1947017838
SNP_P4_166248_8834	NW_004516836.1	Scaffold1704	8834	TT	CC	1947017840
SNP_P4_166249_9137	NW_004516836.1	Scaffold1704	9137	AA	GG	1947017842
SNP_P4_166250_9271	NW_004516836.1	Scaffold1704	9271	AA	GG	1947017844
SNP_P4_166251_9301	NW_004516836.1	Scaffold1704	9301	AA	CC	1947017846
SNP_P4_166253_9676	NW_004516836.1	Scaffold1704	9676	AA	CC	1947017848
SNP_P4_166254_9784	NW_004516836.1	Scaffold1704	9784	GG	AA	1947017850
SNP_P4_166255_10823	NW_004516836.1	Scaffold1704	10823	CC	TT	1947017852
SNP_P4_166256_11047	NW_004516836.1	Scaffold1704	11047	AA	CC	1947017854
SNP_P4_166257_11073	NW_004516836.1	Scaffold1704	11073	CC	GG	1947017856
SNP_P4_166259_11854	NW_004516836.1	Scaffold1704	11854	TT	CC	1947017857
SNP_P4_166260_11857	NW_004516836.1	Scaffold1704	11857	CC	TT	1947017859
SNP_P4_166261_11895	NW_004516836.1	Scaffold1704	11895	GG	AA	1947017861
SNP_P4_166262_11982	NW_004516836.1	Scaffold1704	11982	TT	AA	1947017863
SNP_P4_166263_32873	NW_004516836.1	Scaffold1704	32873	TT	CC	1947017865
SNP_P4_166264_32901	NW_004516836.1	Scaffold1704	32901	TT	AA	1947017867
SNP_P4_166265_32938	NW_004516836.1	Scaffold1704	32938	AA	GG	1947017869
SNP_P4_166267_39280	NW_004516836.1	Scaffold1704	39280	AA	GG	1947017871
SNP_P4_166268_39297	NW_004516836.1	Scaffold1704	39297	GG	TT	1947017873
SNP_P4_166269_39653	NW_004516836.1	Scaffold1704	39653	AA	CC	1947017875
SNP_P4_166270_61672	NW_004516836.1	Scaffold1704	61672	TT	AA	1947017877
SNP_P4_166271_61895	NW_004516836.1	Scaffold1704	61895	TT	CC	1947017879
SNP_P4_166272_61964	NW_004516836.1	Scaffold1704	61964	AA	TT	1947017881
SNP_P4_166273_61977	NW_004516836.1	Scaffold1704	61977	GG	AA	1947017883
SNP_P4_166274_92482	NW_004516836.1	Scaffold1704	92482	GG	AA	1947017885
SNP_P4_166275_476	NW_004516837.1	Scaffold1706	476	GG	AA	1947017887
SNP_P4_166276_482	NW_004516837.1	Scaffold1706	482	CC	TT	1947017889
SNP_P4_166277_540	NW_004516837.1	Scaffold1706	540	CC	TT	1947017891
SNP_P4_166278_1061	NW_004516837.1	Scaffold1706	1061	CC	TT	1947017893
SNP_P4_166279_1098	NW_004516837.1	Scaffold1706	1098	TT	AA	1947017895
SNP_P4_166280_1128	NW_004516837.1	Scaffold1706	1128	CC	TT	1947017897
SNP_P4_166281_1237	NW_004516837.1	Scaffold1706	1237	AA	GG	1947017899

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_166283_22951	NW_004516837.1	Scaffold1706	22951	AA	GG	1947017903
SNP_P4_166284_24535	NW_004516837.1	Scaffold1706	24535	TT	AA	1947017905
SNP_P4_166285_29490	NW_004516837.1	Scaffold1706	29490	AA	GG	1947017907
SNP_P4_166286_61837	NW_004516837.1	Scaffold1706	61837	CC	AA	1947017909
SNP_P4_166287_64370	NW_004516837.1	Scaffold1706	64370	AA	GG	1947017911
SNP_P4_166288_64400	NW_004516837.1	Scaffold1706	64400	CC	TT	1947017913
SNP_P4_166289_76349	NW_004516837.1	Scaffold1706	76349	TT	AA	1947017915
SNP_P4_166290_76421	NW_004516837.1	Scaffold1706	76421	TT	CC	1947017917
SNP_P4_166291_76703	NW_004516837.1	Scaffold1706	76703	GG	AA	1947017919
SNP_P4_166292_76868	NW_004516837.1	Scaffold1706	76868	AA	CC	1947017921
SNP_P4_166293_76903	NW_004516837.1	Scaffold1706	76903	TT	CC	1947017923
SNP_P4_166294_76926	NW_004516837.1	Scaffold1706	76926	TT	CC	1947017925
SNP_P4_166295_76929	NW_004516837.1	Scaffold1706	76929	GG	AA	1947017927
SNP_P4_166296_76959	NW_004516837.1	Scaffold1706	76959	TT	CC	1947017929
SNP_P4_166297_76985	NW_004516837.1	Scaffold1706	76985	CC	TT	1947017931
SNP_P4_166298_76987	NW_004516837.1	Scaffold1706	76987	AA	GG	1947017933
SNP_P4_166299_77072	NW_004516837.1	Scaffold1706	77072	CC	GG	1947017935
SNP_P4_166300_77551	NW_004516837.1	Scaffold1706	77551	AA	GG	1947017937
SNP_P4_166301_77609	NW_004516837.1	Scaffold1706	77609	GG	TT	1947017939
SNP_P4_166302_79654	NW_004516837.1	Scaffold1706	79654	AA	GG	1947017941
SNP_P4_166303_79670	NW_004516837.1	Scaffold1706	79670	AA	TT	1947017943
SNP_P4_166304_79680	NW_004516837.1	Scaffold1706	79680	AA	CC	1947017945
SNP_P4_166305_83591	NW_004516837.1	Scaffold1706	83591	TT	AA	1947017947
SNP_P4_166306_83651	NW_004516837.1	Scaffold1706	83651	AA	GG	1947017949
SNP_P4_166307_83652	NW_004516837.1	Scaffold1706	83652	GG	AA	1947017951
SNP_P4_166308_83659	NW_004516837.1	Scaffold1706	83659	AA	GG	1947017953
SNP_P4_166309_83829	NW_004516837.1	Scaffold1706	83829	TT	CC	1947017955
SNP_P4_166310_84222	NW_004516837.1	Scaffold1706	84222	GG	CC	1947017957
SNP_P4_166311_85330	NW_004516837.1	Scaffold1706	85330	TT	AA	1947017959
SNP_P4_166312_85334	NW_004516837.1	Scaffold1706	85334	TT	GG	1947017961
SNP_P4_166313_91142	NW_004516837.1	Scaffold1706	91142	AA	TT	1947017963
SNP_P4_166314_96350	NW_004516837.1	Scaffold1706	96350	AA	GG	1947017965
SNP_P4_166315_99093	NW_004516837.1	Scaffold1706	99093	AA	GG	1947017967
SNP_P4_166316_100260	NW_004516837.1	Scaffold1706	100260	AA	GG	1947017969
SNP_P4_166317_101573	NW_004516837.1	Scaffold1706	101573	AA	GG	1947017970
SNP_P4_166320_533	NW_004516839.1	Scaffold1708	533	AA	GG	1947017972
SNP_P4_166321_906	NW_004516839.1	Scaffold1708	906	GG	AA	1947017974
SNP_P4_166322_946	NW_004516839.1	Scaffold1708	946	TT	CC	1947017976
SNP_P4_166323_3179	NW_004516839.1	Scaffold1708	3179	AA	GG	1947017978
SNP_P4_166324_3794	NW_004516839.1	Scaffold1708	3794	AA	TT	1947017979
SNP_P4_166325_4900	NW_004516839.1	Scaffold1708	4900	TT	CC	1947017980

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_166327_6319	NW_004516839.1	Scaffold1708	6319	GG	AA	1947017982
SNP_P4_166328_7717	NW_004516839.1	Scaffold1708	7717	GG	AA	1947017983
SNP_P4_166329_7720	NW_004516839.1	Scaffold1708	7720	CC	TT	1947017984
SNP_P4_166330_7722	NW_004516839.1	Scaffold1708	7722	TT	CC	1947017985
SNP_P4_166331_7769	NW_004516839.1	Scaffold1708	7769	TT	AA	1947017986
SNP_P4_166333_7852	NW_004516839.1	Scaffold1708	7852	TT	AA	1947017987
SNP_P4_166334_8044	NW_004516839.1	Scaffold1708	8044	AA	TT	1947017988
SNP_P4_166335_8093	NW_004516839.1	Scaffold1708	8093	TT	AA	1947017989
SNP_P4_166336_8101	NW_004516839.1	Scaffold1708	8101	AA	TT	1947017990
SNP_P4_166337_8143	NW_004516839.1	Scaffold1708	8143	GG	CC	1947017991
SNP_P4_166338_10112	NW_004516839.1	Scaffold1708	10112	CC	TT	1947017992
SNP_P4_166340_12949	NW_004516839.1	Scaffold1708	12949	TT	GG	1947017993
SNP_P4_166341_13056	NW_004516839.1	Scaffold1708	13056	AA	TT	1947017994
SNP_P4_166344_15541	NW_004516839.1	Scaffold1708	15541	TT	AA	1947017996
SNP_P4_166345_15625	NW_004516839.1	Scaffold1708	15625	GG	AA	1947017998
SNP_P4_166346_21167	NW_004516839.1	Scaffold1708	21167	TT	CC	1947018000
SNP_P4_166347_21617	NW_004516839.1	Scaffold1708	21617	AA	TT	1947018002
SNP_P4_166348_21623	NW_004516839.1	Scaffold1708	21623	AA	CC	1947018004
SNP_P4_166349_21886	NW_004516839.1	Scaffold1708	21886	CC	AA	1947018006
SNP_P4_166350_22024	NW_004516839.1	Scaffold1708	22024	CC	AA	1947018008
SNP_P4_166351_22050	NW_004516839.1	Scaffold1708	22050	CC	AA	1947018010
SNP_P4_166352_24239	NW_004516839.1	Scaffold1708	24239	AA	TT	1947018011
SNP_P4_166353_25883	NW_004516839.1	Scaffold1708	25883	CC	GG	1947018013
SNP_P4_166354_26592	NW_004516839.1	Scaffold1708	26592	AA	GG	1947018015
SNP_P4_166355_26636	NW_004516839.1	Scaffold1708	26636	TT	CC	1947018017
SNP_P4_166356_29042	NW_004516839.1	Scaffold1708	29042	GG	AA	1947018019
SNP_P4_166358_29646	NW_004516839.1	Scaffold1708	29646	GG	TT	1947018021
SNP_P4_166359_29825	NW_004516839.1	Scaffold1708	29825	AA	TT	1947018023
SNP_P4_166360_29880	NW_004516839.1	Scaffold1708	29880	GG	CC	1947018024
SNP_P4_166361_29914	NW_004516839.1	Scaffold1708	29914	CC	TT	1947018026
SNP_P4_166362_29961	NW_004516839.1	Scaffold1708	29961	CC	TT	1947018028
SNP_P4_166363_31379	NW_004516839.1	Scaffold1708	31379	TT	CC	1947018030
SNP_P4_166364_31707	NW_004516839.1	Scaffold1708	31707	AA	TT	1947018032
SNP_P4_166365_34497	NW_004516839.1	Scaffold1708	34497	GG	TT	1947018034
SNP_P4_166367_34746	NW_004516839.1	Scaffold1708	34746	GG	AA	1947018036
SNP_P4_166368_35029	NW_004516839.1	Scaffold1708	35029	GG	AA	1947018038
SNP_P4_166369_35210	NW_004516839.1	Scaffold1708	35210	CC	TT	1947018040
SNP_P4_166370_40137	NW_004516839.1	Scaffold1708	40137	GG	TT	1947018042
SNP_P4_166371_40740	NW_004516839.1	Scaffold1708	40740	TT	GG	1947018044
SNP_P4_166373_42915	NW_004516839.1	Scaffold1708	42915	AA	TT	1947018046
SNP_P4_166374_43932	NW_004516839.1	Scaffold1708	43932	AA	TT	1947018048

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_166376_47748	NW_004516839.1	Scaffold1708	47748	GG	TT	1947018051
SNP_P4_166377_49156	NW_004516839.1	Scaffold1708	49156	CC	TT	1947018053
SNP_P4_166378_59949	NW_004516839.1	Scaffold1708	59949	CC	TT	1947018055
SNP_P4_166379_59966	NW_004516839.1	Scaffold1708	59966	GG	AA	1947018057
SNP_P4_166380_60022	NW_004516839.1	Scaffold1708	60022	CC	TT	1947018059
SNP_P4_166381_60834	NW_004516839.1	Scaffold1708	60834	GG	TT	1947018061
SNP_P4_166382_61039	NW_004516839.1	Scaffold1708	61039	GG	AA	1947018063
SNP_P4_166384_64732	NW_004516839.1	Scaffold1708	64732	AA	GG	1947018065
SNP_P4_166385_67154	NW_004516839.1	Scaffold1708	67154	TT	CC	1947018067
SNP_P4_166386_67165	NW_004516839.1	Scaffold1708	67165	CC	AA	1947018069
SNP_P4_166387_67291	NW_004516839.1	Scaffold1708	67291	GG	CC	1947018071
SNP_P4_166388_67545	NW_004516839.1	Scaffold1708	67545	AA	GG	1947018073
SNP_P4_166389_67560	NW_004516839.1	Scaffold1708	67560	AA	GG	1947018075
SNP_P4_166392_85283	NW_004516839.1	Scaffold1708	85283	AA	GG	1947018077
SNP_P4_166393_85349	NW_004516839.1	Scaffold1708	85349	AA	CC	1947018079
SNP_P4_166394_87218	NW_004516839.1	Scaffold1708	87218	AA	GG	1947018081
SNP_P4_166396_64	NW_004516840.1	Scaffold1709	64	CC	AA	1947018083
SNP_P4_166397_65	NW_004516840.1	Scaffold1709	65	AA	TT	1947018085
SNP_P4_166398_81	NW_004516840.1	Scaffold1709	81	TT	CC	1947018086
SNP_P4_166399_196	NW_004516840.1	Scaffold1709	196	GG	AA	1947018088
SNP_P4_166400_197	NW_004516840.1	Scaffold1709	197	CC	GG	1947018090
SNP_P4_166401_202	NW_004516840.1	Scaffold1709	202	GG	AA	1947018092
SNP_P4_166402_203	NW_004516840.1	Scaffold1709	203	GG	TT	1947018094
SNP_P4_166403_403	NW_004516840.1	Scaffold1709	403	AA	GG	1947018096
SNP_P4_166404_422	NW_004516840.1	Scaffold1709	422	CC	AA	1947018098
SNP_P4_166405_468	NW_004516840.1	Scaffold1709	468	TT	GG	1947018100
SNP_P4_166406_3810	NW_004516840.1	Scaffold1709	3810	TT	CC	1947018102
SNP_P4_166407_3839	NW_004516840.1	Scaffold1709	3839	TT	GG	1947018104
SNP_P4_166408_3843	NW_004516840.1	Scaffold1709	3843	CC	TT	1947018105
SNP_P4_166409_3857	NW_004516840.1	Scaffold1709	3857	GG	CC	1947018107
SNP_P4_166410_3889	NW_004516840.1	Scaffold1709	3889	CC	TT	1947018109
SNP_P4_166411_3895	NW_004516840.1	Scaffold1709	3895	CC	AA	1947018111
SNP_P4_166412_225	NW_004516841.1	Scaffold1710	225	AA	TT	1947018113
SNP_P4_166413_416	NW_004516841.1	Scaffold1710	416	AA	TT	1947018115
SNP_P4_166414_5539	NW_004516841.1	Scaffold1710	5539	TT	CC	1947018117
SNP_P4_166416_8585	NW_004516841.1	Scaffold1710	8585	AA	CC	1947018119
SNP_P4_166417_8589	NW_004516841.1	Scaffold1710	8589	TT	AA	1947018121
SNP_P4_166418_10154	NW_004516841.1	Scaffold1710	10154	AA	GG	1947018123
SNP_P4_166420_13202	NW_004516841.1	Scaffold1710	13202	TT	AA	1947018125
SNP_P4_166421_23981	NW_004516841.1	Scaffold1710	23981	CC	TT	1947018127
SNP_P4_166422_35836	NW_004516841.1	Scaffold1710	35836	CC	TT	1947018128

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_166426_51167	NW_004516841.1	Scaffold1710	51167	AA	GG	1947018134
SNP_P4_166427_82897	NW_004516841.1	Scaffold1710	82897	TT	AA	1947018136
SNP_P4_166429_92778	NW_004516841.1	Scaffold1710	92778	GG	TT	1947018138
SNP_P4_166431_96579	NW_004516841.1	Scaffold1710	96579	TT	CC	1947018140
SNP_P4_166432_116039	NW_004516841.1	Scaffold1710	116039	CC	TT	1947018141
SNP_P4_166434_132827	NW_004516841.1	Scaffold1710	132827	TT	CC	1947018143
SNP_P4_166435_132958	NW_004516841.1	Scaffold1710	132958	GG	AA	1947018145
SNP_P4_166436_133080	NW_004516841.1	Scaffold1710	133080	CC	TT	1947018147
SNP_P4_166437_141981	NW_004516841.1	Scaffold1710	141981	GG	AA	1947018149
SNP_P4_166439_160639	NW_004516841.1	Scaffold1710	160639	TT	AA	1947018151
SNP_P4_166440_166812	NW_004516841.1	Scaffold1710	166812	TT	AA	1947018153
SNP_P4_166441_2775	NW_004516843.1	Scaffold1715	2775	TT	GG	1947018155
SNP_P4_166442_3058	NW_004516843.1	Scaffold1715	3058	GG	AA	1947018157
SNP_P4_166443_1034	NW_004516845.1	Scaffold1717	1034	CC	TT	1947018159
SNP_P4_166444_1188	NW_004516845.1	Scaffold1717	1188	GG	CC	1947018160
SNP_P4_166445_14235	NW_004516846.1	Scaffold1718	14235	AA	GG	1947018162
SNP_P4_166446_16523	NW_004516846.1	Scaffold1718	16523	TT	AA	1947018164
SNP_P4_166448_60473	NW_004516846.1	Scaffold1718	60473	TT	CC	1947018166
SNP_P4_166449_71692	NW_004516846.1	Scaffold1718	71692	AA	CC	1947018168
SNP_P4_166450_71930	NW_004516846.1	Scaffold1718	71930	CC	TT	1947018170
SNP_P4_166451_10759	NW_004516849.1	Scaffold1722	10759	CC	GG	1947018172
SNP_P4_166452_31751	NW_004516849.1	Scaffold1722	31751	TT	CC	1947018174
SNP_P4_166453_38153	NW_004516849.1	Scaffold1722	38153	AA	GG	1947018176
SNP_P4_166454_42629	NW_004516849.1	Scaffold1722	42629	AA	GG	1947018178
SNP_P4_166455_42687	NW_004516849.1	Scaffold1722	42687	CC	AA	1947018180
SNP_P4_166459_135557	NW_004516849.1	Scaffold1722	135557	GG	AA	1947018182
SNP_P4_166460_135590	NW_004516849.1	Scaffold1722	135590	GG	AA	1947018184
SNP_P4_166461_135675	NW_004516849.1	Scaffold1722	135675	GG	AA	1947018186
SNP_P4_166462_135682	NW_004516849.1	Scaffold1722	135682	TT	CC	1947018188
SNP_P4_166463_135971	NW_004516849.1	Scaffold1722	135971	TT	GG	1947018190
SNP_P4_166464_148308	NW_004516849.1	Scaffold1722	148308	AA	TT	1947018192
SNP_P4_166465_176623	NW_004516849.1	Scaffold1722	176623	CC	TT	1947018194
SNP_P4_166466_182316	NW_004516849.1	Scaffold1722	182316	AA	TT	1947018196
SNP_P4_166467_184376	NW_004516849.1	Scaffold1722	184376	AA	TT	1947018198
SNP_P4_166468_184553	NW_004516849.1	Scaffold1722	184553	AA	GG	1947018200
SNP_P4_166469_184587	NW_004516849.1	Scaffold1722	184587	AA	GG	1947018202
SNP_P4_166470_184654	NW_004516849.1	Scaffold1722	184654	AA	GG	1947018204
SNP_P4_166471_184665	NW_004516849.1	Scaffold1722	184665	GG	AA	1947018206
SNP_P4_166472_187229	NW_004516849.1	Scaffold1722	187229	AA	GG	1947018208
SNP_P4_166473_187272	NW_004516849.1	Scaffold1722	187272	CC	TT	1947018210

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_166475_275	NW_004516850.1	Scaffold1723	275	GG	AA	1947018214
SNP_P4_166476_637	NW_004516850.1	Scaffold1723	637	CC	TT	1947018216
SNP_P4_166477_657	NW_004516850.1	Scaffold1723	657	CC	TT	1947018218
SNP_P4_166478_796	NW_004516850.1	Scaffold1723	796	GG	CC	1947018220
SNP_P4_166479_801	NW_004516850.1	Scaffold1723	801	CC	TT	1947018222
SNP_P4_166480_802	NW_004516850.1	Scaffold1723	802	TT	GG	1947018224
SNP_P4_166481_817	NW_004516850.1	Scaffold1723	817	TT	CC	1947018226
SNP_P4_166482_852	NW_004516850.1	Scaffold1723	852	CC	TT	1947018228
SNP_P4_166483_869	NW_004516850.1	Scaffold1723	869	CC	TT	1947018230
SNP_P4_166484_978	NW_004516850.1	Scaffold1723	978	TT	CC	1947018232
SNP_P4_166486_1133	NW_004516850.1	Scaffold1723	1133	AA	GG	1947018234
SNP_P4_166487_1136	NW_004516850.1	Scaffold1723	1136	CC	AA	1947018236
SNP_P4_166488_1176	NW_004516850.1	Scaffold1723	1176	TT	CC	1947018238
SNP_P4_166489_1188	NW_004516850.1	Scaffold1723	1188	AA	CC	1947018240
SNP_P4_166490_1193	NW_004516850.1	Scaffold1723	1193	GG	TT	1947018242
SNP_P4_166491_1241	NW_004516850.1	Scaffold1723	1241	CC	TT	1947018244
SNP_P4_166492_1271	NW_004516850.1	Scaffold1723	1271	GG	TT	1947018246
SNP_P4_166494_1314	NW_004516850.1	Scaffold1723	1314	GG	AA	1947018248
SNP_P4_166495_1351	NW_004516850.1	Scaffold1723	1351	TT	AA	1947018250
SNP_P4_166496_1418	NW_004516850.1	Scaffold1723	1418	TT	CC	1947018252
SNP_P4_166497_1424	NW_004516850.1	Scaffold1723	1424	CC	TT	1947018254
SNP_P4_166498_1487	NW_004516850.1	Scaffold1723	1487	AA	TT	1947018256
SNP_P4_166499_1488	NW_004516850.1	Scaffold1723	1488	CC	AA	1947018258
SNP_P4_166500_1493	NW_004516850.1	Scaffold1723	1493	AA	CC	1947018260
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SNP_P4_166502_1516	NW_004516850.1	Scaffold1723	1516	GG	AA	1947018263
SNP_P4_166503_1523	NW_004516850.1	Scaffold1723	1523	AA	GG	1947018265
SNP_P4_166504_90	NW_004516851.1	Scaffold1725	90	TT	GG	1947018267
SNP_P4_166505_179	NW_004516851.1	Scaffold1725	179	CC	GG	1947018269
SNP_P4_166506_22112	NW_004516851.1	Scaffold1725	22112	TT	CC	1947018271
SNP_P4_166507_22140	NW_004516851.1	Scaffold1725	22140	TT	GG	1947018273
SNP_P4_166508_23007	NW_004516851.1	Scaffold1725	23007	AA	TT	1947018275
SNP_P4_166509_28621	NW_004516851.1	Scaffold1725	28621	TT	AA	1947018277
SNP_P4_166510_28648	NW_004516851.1	Scaffold1725	28648	AA	CC	1947018279
SNP_P4_166511_28662	NW_004516851.1	Scaffold1725	28662	AA	TT	1947018281
SNP_P4_166513_33511	NW_004516851.1	Scaffold1725	33511	AA	GG	1947018283
SNP_P4_166514_33547	NW_004516851.1	Scaffold1725	33547	TT	CC	1947018285
SNP_P4_166515_33594	NW_004516851.1	Scaffold1725	33594	GG	AA	1947018287
SNP_P4_166516_33622	NW_004516851.1	Scaffold1725	33622	AA	GG	1947018289
SNP_P4_166517_33885	NW_004516851.1	Scaffold1725	33885	TT	GG	1947018291
SNP_P4_166518_39984	NW_004516851.1	Scaffold1725	39984	AA	CC	1947018293

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_166520_40012	NW_004516851.1	Scaffold1725	40012	TT	CC	1947018297
SNP_P4_166521_40077	NW_004516851.1	Scaffold1725	40077	TT	CC	1947018299
SNP_P4_166522_40184	NW_004516851.1	Scaffold1725	40184	TT	CC	1947018300
SNP_P4_166523_40187	NW_004516851.1	Scaffold1725	40187	CC	TT	1947018302
SNP_P4_166524_40326	NW_004516851.1	Scaffold1725	40326	TT	CC	1947018304
SNP_P4_166525_40341	NW_004516851.1	Scaffold1725	40341	CC	AA	1947018306
SNP_P4_166526_40347	NW_004516851.1	Scaffold1725	40347	CC	AA	1947018308
SNP_P4_166527_40424	NW_004516851.1	Scaffold1725	40424	TT	CC	1947018310
SNP_P4_166528_40432	NW_004516851.1	Scaffold1725	40432	AA	GG	1947018312
SNP_P4_166529_40443	NW_004516851.1	Scaffold1725	40443	AA	CC	1947018314
SNP_P4_166530_40502	NW_004516851.1	Scaffold1725	40502	AA	GG	1947018316
SNP_P4_166531_15942	NW_004516852.1	Scaffold1726	15942	TT	GG	1947018318
SNP_P4_166532_16229	NW_004516852.1	Scaffold1726	16229	GG	TT	1947018320
SNP_P4_166533_18775	NW_004516852.1	Scaffold1726	18775	CC	TT	1947018322
SNP_P4_166534_24197	NW_004516852.1	Scaffold1726	24197	AA	GG	1947018324
SNP_P4_166535_24475	NW_004516852.1	Scaffold1726	24475	AA	GG	1947018326
SNP_P4_166536_24529	NW_004516852.1	Scaffold1726	24529	TT	GG	1947018328
SNP_P4_166537_30749	NW_004516852.1	Scaffold1726	30749	GG	AA	1947018330
SNP_P4_166538_38231	NW_004516852.1	Scaffold1726	38231	GG	AA	1947018332
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SNP_P4_166541_44735	NW_004516852.1	Scaffold1726	44735	GG	AA	1947018338
SNP_P4_166542_46264	NW_004516852.1	Scaffold1726	46264	TT	GG	1947018340
SNP_P4_166543_49179	NW_004516852.1	Scaffold1726	49179	AA	TT	1947018342
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SNP_P4_166545_470	NW_004516855.1	Scaffold1729	470	CC	GG	1947018346
SNP_P4_166546_522	NW_004516855.1	Scaffold1729	522	AA	TT	1947018347
SNP_P4_166547_8477	NW_004516855.1	Scaffold1729	8477	CC	TT	1947018349
SNP_P4_166548_8518	NW_004516855.1	Scaffold1729	8518	CC	AA	1947018351
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SNP_P4_166550_16161	NW_004516855.1	Scaffold1729	16161	CC	TT	1947018355
SNP_P4_166551_16522	NW_004516855.1	Scaffold1729	16522	GG	CC	1947018357
SNP_P4_166552_16555	NW_004516855.1	Scaffold1729	16555	TT	CC	1947018358
SNP_P4_166553_16649	NW_004516855.1	Scaffold1729	16649	TT	CC	1947018360
SNP_P4_166554_27126	NW_004516855.1	Scaffold1729	27126	AA	GG	1947018362
SNP_P4_166555_27492	NW_004516855.1	Scaffold1729	27492	TT	CC	1947018364
SNP_P4_166556_27503	NW_004516855.1	Scaffold1729	27503	TT	GG	1947018366
SNP_P4_166557_27505	NW_004516855.1	Scaffold1729	27505	TT	GG	1947018368
SNP_P4_166558_49497	NW_004516855.1	Scaffold1729	49497	CC	AA	1947018370
SNP_P4_166559_49739	NW_004516855.1	Scaffold1729	49739	TT	CC	1947018372
SNP_P4_166560_49762	NW_004516855.1	Scaffold1729	49762	GG	AA	1947018374

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_166562_56175	NW_004516855.1	Scaffold1729	56175	GG	AA	1947018378
SNP_P4_166563_56210	NW_004516855.1	Scaffold1729	56210	GG	AA	1947018380
SNP_P4_166564_56543	NW_004516855.1	Scaffold1729	56543	CC	GG	1947018382
SNP_P4_166565_79849	NW_004516855.1	Scaffold1729	79849	AA	GG	1947018384
SNP_P4_166566_79972	NW_004516855.1	Scaffold1729	79972	AA	CC	1947018386
SNP_P4_166567_80019	NW_004516855.1	Scaffold1729	80019	AA	CC	1947018388
SNP_P4_166568_80056	NW_004516855.1	Scaffold1729	80056	TT	GG	1947018390
SNP_P4_166569_80209	NW_004516855.1	Scaffold1729	80209	CC	TT	1947018392
SNP_P4_166570_80252	NW_004516855.1	Scaffold1729	80252	CC	TT	1947018394
SNP_P4_166571_80324	NW_004516855.1	Scaffold1729	80324	GG	CC	1947018396
SNP_P4_166572_80332	NW_004516855.1	Scaffold1729	80332	AA	GG	1947018397
SNP_P4_166573_80374	NW_004516855.1	Scaffold1729	80374	AA	GG	1947018399
SNP_P4_166574_80390	NW_004516855.1	Scaffold1729	80390	TT	CC	1947018401
SNP_P4_166575_86052	NW_004516855.1	Scaffold1729	86052	CC	AA	1947018403
SNP_P4_166576_86056	NW_004516855.1	Scaffold1729	86056	CC	AA	1947018405
SNP_P4_166577_86090	NW_004516855.1	Scaffold1729	86090	TT	CC	1947018407
SNP_P4_166578_86481	NW_004516855.1	Scaffold1729	86481	AA	GG	1947018409
SNP_P4_166579_98574	NW_004516855.1	Scaffold1729	98574	TT	CC	1947018411
SNP_P4_166580_132087	NW_004516855.1	Scaffold1729	132087	TT	CC	1947018413
SNP_P4_166581_140244	NW_004516855.1	Scaffold1729	140244	CC	GG	1947018415
SNP_P4_166582_146903	NW_004516855.1	Scaffold1729	146903	TT	CC	1947018417
SNP_P4_166583_11791	NW_004516856.1	Scaffold1730	11791	TT	AA	1947018419
SNP_P4_166584_12188	NW_004516856.1	Scaffold1730	12188	CC	TT	1947018421
SNP_P4_166585_12319	NW_004516856.1	Scaffold1730	12319	AA	TT	1947018423
SNP_P4_166588_21268	NW_004516856.1	Scaffold1730	21268	TT	GG	1947018425
SNP_P4_166589_23516	NW_004516856.1	Scaffold1730	23516	TT	CC	1947018427
SNP_P4_166590_24648	NW_004516856.1	Scaffold1730	24648	GG	AA	1947018429
SNP_P4_166592_28567	NW_004516856.1	Scaffold1730	28567	TT	CC	1947018431
SNP_P4_166593_28590	NW_004516856.1	Scaffold1730	28590	AA	TT	1947018433
SNP_P4_166595_28648	NW_004516856.1	Scaffold1730	28648	TT	CC	1947018435
SNP_P4_166596_28711	NW_004516856.1	Scaffold1730	28711	CC	GG	1947018437
SNP_P4_166597_28768	NW_004516856.1	Scaffold1730	28768	GG	AA	1947018439
SNP_P4_166598_28806	NW_004516856.1	Scaffold1730	28806	TT	GG	1947018441
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SNP_P4_166600_28830	NW_004516856.1	Scaffold1730	28830	AA	CC	1947018445
SNP_P4_166601_28838	NW_004516856.1	Scaffold1730	28838	GG	AA	1947018447
SNP_P4_166602_28842	NW_004516856.1	Scaffold1730	28842	GG	AA	1947018449
SNP_P4_166603_28890	NW_004516856.1	Scaffold1730	28890	GG	TT	1947018451
SNP_P4_166604_29530	NW_004516856.1	Scaffold1730	29530	CC	TT	1947018453
SNP_P4_166605_29533	NW_004516856.1	Scaffold1730	29533	GG	AA	1947018455
SNP_P4_166606_29537	NW_004516856.1	Scaffold1730	29537	TT	CC	1947018457

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_166607_29591	NW_004516856.1	Scaffold1730	29591	TT	CC	1947018459
SNP_P4_166608_31650	NW_004516856.1	Scaffold1730	31650	AA	GG	1947018461
SNP_P4_166609_32256	NW_004516856.1	Scaffold1730	32256	GG	AA	1947018463
SNP_P4_166610_32368	NW_004516856.1	Scaffold1730	32368	AA	TT	1947018465
SNP_P4_166611_33343	NW_004516856.1	Scaffold1730	33343	AA	TT	1947018467
SNP_P4_166612_33367	NW_004516856.1	Scaffold1730	33367	AA	TT	1947018469
SNP_P4_166613_33915	NW_004516856.1	Scaffold1730	33915	TT	GG	1947018471
SNP_P4_166614_33979	NW_004516856.1	Scaffold1730	33979	CC	TT	1947018473
SNP_P4_166615_34037	NW_004516856.1	Scaffold1730	34037	AA	GG	1947018475
SNP_P4_166616_34148	NW_004516856.1	Scaffold1730	34148	GG	TT	1947018477
SNP_P4_166617_43228	NW_004516856.1	Scaffold1730	43228	CC	GG	1947018479
SNP_P4_166618_46919	NW_004516856.1	Scaffold1730	46919	AA	TT	1947018481
SNP_P4_166619_46920	NW_004516856.1	Scaffold1730	46920	TT	CC	1947018483
SNP_P4_166620_47030	NW_004516856.1	Scaffold1730	47030	TT	CC	1947018485
SNP_P4_166621_47181	NW_004516856.1	Scaffold1730	47181	CC	TT	1947018487
SNP_P4_166622_49827	NW_004516856.1	Scaffold1730	49827	AA	CC	1947018489
SNP_P4_166623_52576	NW_004516856.1	Scaffold1730	52576	CC	TT	1947018491
SNP_P4_166624_52667	NW_004516856.1	Scaffold1730	52667	TT	AA	1947018493
SNP_P4_166625_52786	NW_004516856.1	Scaffold1730	52786	TT	AA	1947018495
SNP_P4_166626_53203	NW_004516856.1	Scaffold1730	53203	GG	AA	1947018497
SNP_P4_166627_54717	NW_004516856.1	Scaffold1730	54717	AA	GG	1947018499
SNP_P4_166628_58896	NW_004516856.1	Scaffold1730	58896	GG	TT	1947018501
SNP_P4_166629_58914	NW_004516856.1	Scaffold1730	58914	TT	CC	1947018503
SNP_P4_166630_59389	NW_004516856.1	Scaffold1730	59389	TT	GG	1947018505
SNP_P4_166631_60790	NW_004516856.1	Scaffold1730	60790	TT	CC	1947018507
SNP_P4_166632_63988	NW_004516856.1	Scaffold1730	63988	CC	GG	1947018509
SNP_P4_166634_64610	NW_004516856.1	Scaffold1730	64610	AA	TT	1947018511
SNP_P4_166635_64729	NW_004516856.1	Scaffold1730	64729	AA	GG	1947018513
SNP_P4_166636_66149	NW_004516856.1	Scaffold1730	66149	TT	CC	1947018515
SNP_P4_166637_67044	NW_004516856.1	Scaffold1730	67044	CC	AA	1947018517
SNP_P4_166638_67953	NW_004516856.1	Scaffold1730	67953	CC	AA	1947018519
SNP_P4_166639_69094	NW_004516856.1	Scaffold1730	69094	TT	CC	1947018521
SNP_P4_166640_69863	NW_004516856.1	Scaffold1730	69863	GG	AA	1947018523
SNP_P4_166641_70080	NW_004516856.1	Scaffold1730	70080	CC	AA	1947018525
SNP_P4_166642_70157	NW_004516856.1	Scaffold1730	70157	TT	GG	1947018527
SNP_P4_166644_70395	NW_004516856.1	Scaffold1730	70395	CC	TT	1947018529
SNP_P4_166645_70454	NW_004516856.1	Scaffold1730	70454	CC	AA	1947018531
SNP_P4_166646_71250	NW_004516856.1	Scaffold1730	71250	TT	CC	1947018533
SNP_P4_166647_72035	NW_004516856.1	Scaffold1730	72035	GG	CC	1947018535
SNP_P4_166648_72175	NW_004516856.1	Scaffold1730	72175	AA	GG	1947018537
SNP_P4_166649_72182	NW_004516856.1	Scaffold1730	72182	GG	CC	1947018539
SNP_P4_166650_72236	NW_004516856.1	Scaffold1730	72236	GG	AA	1947018541

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_166652_72242	NW_004516856.1	Scaffold1730	72242	TT	CC	1947018545
SNP_P4_166653_72268	NW_004516856.1	Scaffold1730	72268	AA	GG	1947018547
SNP_P4_166654_72683	NW_004516856.1	Scaffold1730	72683	TT	CC	1947018549
SNP_P4_166655_74525	NW_004516856.1	Scaffold1730	74525	GG	TT	1947018551
SNP_P4_166656_74564	NW_004516856.1	Scaffold1730	74564	GG	AA	1947018553
SNP_P4_166657_74890	NW_004516856.1	Scaffold1730	74890	AA	TT	1947018555
SNP_P4_166658_76498	NW_004516856.1	Scaffold1730	76498	AA	CC	1947018557
SNP_P4_166659_79506	NW_004516856.1	Scaffold1730	79506	TT	CC	1947018559
SNP_P4_166660_79680	NW_004516856.1	Scaffold1730	79680	CC	TT	1947018561
SNP_P4_166661_83261	NW_004516856.1	Scaffold1730	83261	TT	AA	1947018563
SNP_P4_166662_83276	NW_004516856.1	Scaffold1730	83276	GG	AA	1947018566
SNP_P4_166663_83277	NW_004516856.1	Scaffold1730	83277	AA	GG	1947018568
SNP_P4_166665_88241	NW_004516856.1	Scaffold1730	88241	AA	GG	1947018570
SNP_P4_166666_89341	NW_004516856.1	Scaffold1730	89341	AA	GG	1947018572
SNP_P4_166667_89351	NW_004516856.1	Scaffold1730	89351	TT	CC	1947018574
SNP_P4_166668_89859	NW_004516856.1	Scaffold1730	89859	TT	CC	1947018576
SNP_P4_166669_95545	NW_004516856.1	Scaffold1730	95545	TT	GG	1947018578
SNP_P4_166670_96958	NW_004516856.1	Scaffold1730	96958	CC	AA	1947018580
SNP_P4_166671_102499	NW_004516856.1	Scaffold1730	102499	TT	GG	1947018582
SNP_P4_166672_104952	NW_004516856.1	Scaffold1730	104952	CC	TT	1947018584
SNP_P4_166673_104983	NW_004516856.1	Scaffold1730	104983	TT	CC	1947018586
SNP_P4_166674_105910	NW_004516856.1	Scaffold1730	105910	TT	GG	1947018588
SNP_P4_166675_105931	NW_004516856.1	Scaffold1730	105931	AA	GG	1947018590
SNP_P4_166676_105945	NW_004516856.1	Scaffold1730	105945	CC	AA	1947018592
SNP_P4_166677_105950	NW_004516856.1	Scaffold1730	105950	GG	AA	1947018594
SNP_P4_166678_106010	NW_004516856.1	Scaffold1730	106010	CC	TT	1947018596
SNP_P4_166679_106078	NW_004516856.1	Scaffold1730	106078	CC	TT	1947018598
SNP_P4_166680_106079	NW_004516856.1	Scaffold1730	106079	TT	CC	1947018600
SNP_P4_166681_106083	NW_004516856.1	Scaffold1730	106083	GG	AA	1947018602
SNP_P4_166682_109372	NW_004516856.1	Scaffold1730	109372	AA	GG	1947018604
SNP_P4_166683_110485	NW_004516856.1	Scaffold1730	110485	TT	CC	1947018606
SNP_P4_166684_110511	NW_004516856.1	Scaffold1730	110511	GG	AA	1947018608
SNP_P4_166685_110744	NW_004516856.1	Scaffold1730	110744	CC	GG	1947018610
SNP_P4_166686_110877	NW_004516856.1	Scaffold1730	110877	TT	CC	1947018613
SNP_P4_166687_111652	NW_004516856.1	Scaffold1730	111652	CC	GG	1947018615
SNP_P4_166688_111850	NW_004516856.1	Scaffold1730	111850	GG	TT	1947018617
SNP_P4_166689_111859	NW_004516856.1	Scaffold1730	111859	TT	CC	1947018619
SNP_P4_166690_111890	NW_004516856.1	Scaffold1730	111890	CC	TT	1947018621
SNP_P4_166691_111918	NW_004516856.1	Scaffold1730	111918	TT	CC	1947018623
SNP_P4_166692_112295	NW_004516856.1	Scaffold1730	112295	TT	AA	1947018625
SNP_P4_166693_114397	NW_004516856.1	Scaffold1730	114397	TT	CC	1947018627

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_166695_114434	NW_004516856.1	Scaffold1730	114434	AA	CC	1947018631
SNP_P4_166696_114437	NW_004516856.1	Scaffold1730	114437	TT	AA	1947018633
SNP_P4_166697_114449	NW_004516856.1	Scaffold1730	114449	GG	AA	1947018635
SNP_P4_166698_114621	NW_004516856.1	Scaffold1730	114621	AA	GG	1947018637
SNP_P4_166699_114723	NW_004516856.1	Scaffold1730	114723	CC	AA	1947018639
SNP_P4_166700_114730	NW_004516856.1	Scaffold1730	114730	GG	AA	1947018641
SNP_P4_166701_114802	NW_004516856.1	Scaffold1730	114802	CC	TT	1947018643
SNP_P4_166702_114814	NW_004516856.1	Scaffold1730	114814	TT	CC	1947018645
SNP_P4_166703_114821	NW_004516856.1	Scaffold1730	114821	GG	AA	1947018647
SNP_P4_166704_115822	NW_004516856.1	Scaffold1730	115822	TT	AA	1947018649
SNP_P4_166705_118267	NW_004516856.1	Scaffold1730	118267	AA	GG	1947018651
SNP_P4_166706_118319	NW_004516856.1	Scaffold1730	118319	AA	CC	1947018653
SNP_P4_166707_118815	NW_004516856.1	Scaffold1730	118815	TT	CC	1947018655
SNP_P4_166708_121957	NW_004516856.1	Scaffold1730	121957	AA	GG	1947018657
SNP_P4_166709_121965	NW_004516856.1	Scaffold1730	121965	TT	AA	1947018659
SNP_P4_166710_121969	NW_004516856.1	Scaffold1730	121969	GG	CC	1947018661
SNP_P4_166711_122205	NW_004516856.1	Scaffold1730	122205	AA	TT	1947018663
SNP_P4_166712_122206	NW_004516856.1	Scaffold1730	122206	TT	AA	1947018665
SNP_P4_166713_123441	NW_004516856.1	Scaffold1730	123441	GG	CC	1947018667
SNP_P4_166714_123671	NW_004516856.1	Scaffold1730	123671	CC	GG	1947018669
SNP_P4_166715_125214	NW_004516856.1	Scaffold1730	125214	AA	GG	1947018671
SNP_P4_166716_125681	NW_004516856.1	Scaffold1730	125681	GG	TT	1947018673
SNP_P4_166717_126179	NW_004516856.1	Scaffold1730	126179	TT	CC	1947018675
SNP_P4_166718_126183	NW_004516856.1	Scaffold1730	126183	GG	AA	1947018677
SNP_P4_166719_9523	NW_004516857.1	Scaffold1731	9523	AA	TT	1947018679
SNP_P4_166720_9829	NW_004516857.1	Scaffold1731	9829	CC	TT	1947018681
SNP_P4_166721_13277	NW_004516857.1	Scaffold1731	13277	TT	CC	1947018683
SNP_P4_166722_13673	NW_004516857.1	Scaffold1731	13673	AA	GG	1947018685
SNP_P4_166723_13685	NW_004516857.1	Scaffold1731	13685	TT	CC	1947018687
SNP_P4_166724_16173	NW_004516857.1	Scaffold1731	16173	GG	AA	1947018689
SNP_P4_166725_16748	NW_004516857.1	Scaffold1731	16748	CC	AA	1947018691
SNP_P4_166726_30239	NW_004516857.1	Scaffold1731	30239	GG	AA	1947018693
SNP_P4_166727_34580	NW_004516857.1	Scaffold1731	34580	GG	TT	1947018695
SNP_P4_166729_38787	NW_004516857.1	Scaffold1731	38787	CC	TT	1947018697
SNP_P4_166730_38795	NW_004516857.1	Scaffold1731	38795	CC	TT	1947018699
SNP_P4_166731_38803	NW_004516857.1	Scaffold1731	38803	CC	TT	1947018701
SNP_P4_166732_38811	NW_004516857.1	Scaffold1731	38811	CC	TT	1947018703
SNP_P4_166733_38819	NW_004516857.1	Scaffold1731	38819	CC	TT	1947018705
SNP_P4_166734_38827	NW_004516857.1	Scaffold1731	38827	CC	TT	1947018707
SNP_P4_166735_38835	NW_004516857.1	Scaffold1731	38835	CC	TT	1947018709
SNP_P4_166737_38910	NW_004516857.1	Scaffold1731	38910	AA	CC	1947018711

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_166738_38974	NW_004516857.1	Scaffold1731	38974	TT	AA	1947018713
SNP_P4_166739_39797	NW_004516857.1	Scaffold1731	39797	GG	AA	1947018715
SNP_P4_166740_39828	NW_004516857.1	Scaffold1731	39828	CC	TT	1947018717
SNP_P4_166742_39917	NW_004516857.1	Scaffold1731	39917	AA	GG	1947018719
SNP_P4_166743_45696	NW_004516857.1	Scaffold1731	45696	CC	TT	1947018721
SNP_P4_166744_46936	NW_004516857.1	Scaffold1731	46936	CC	GG	1947018723
SNP_P4_166745_47097	NW_004516857.1	Scaffold1731	47097	AA	CC	1947018725
SNP_P4_166746_47385	NW_004516857.1	Scaffold1731	47385	AA	GG	1947018727
SNP_P4_166747_48170	NW_004516857.1	Scaffold1731	48170	GG	TT	1947018729
SNP_P4_166749_50013	NW_004516857.1	Scaffold1731	50013	CC	TT	1947018731
SNP_P4_166750_51758	NW_004516857.1	Scaffold1731	51758	TT	CC	1947018733
SNP_P4_166751_52597	NW_004516857.1	Scaffold1731	52597	CC	AA	1947018735
SNP_P4_166753_54079	NW_004516857.1	Scaffold1731	54079	AA	GG	1947018737
SNP_P4_166754_54357	NW_004516857.1	Scaffold1731	54357	AA	GG	1947018739
SNP_P4_166755_54370	NW_004516857.1	Scaffold1731	54370	CC	TT	1947018741
SNP_P4_166756_62091	NW_004516857.1	Scaffold1731	62091	CC	AA	1947018743
SNP_P4_166757_62092	NW_004516857.1	Scaffold1731	62092	GG	CC	1947018745
SNP_P4_166758_62720	NW_004516857.1	Scaffold1731	62720	AA	GG	1947018747
SNP_P4_166759_62723	NW_004516857.1	Scaffold1731	62723	CC	TT	1947018749
SNP_P4_166760_63731	NW_004516857.1	Scaffold1731	63731	TT	CC	1947018751
SNP_P4_166761_65438	NW_004516857.1	Scaffold1731	65438	GG	TT	1947018753
SNP_P4_166763_72207	NW_004516857.1	Scaffold1731	72207	GG	AA	1947018755
SNP_P4_166765_85402	NW_004516857.1	Scaffold1731	85402	AA	GG	1947018757
SNP_P4_166766_85936	NW_004516857.1	Scaffold1731	85936	TT	CC	1947018759
SNP_P4_166768_356	NW_004516858.1	Scaffold1734	356	AA	GG	1947018761
SNP_P4_166769_377	NW_004516858.1	Scaffold1734	377	GG	AA	1947018763
SNP_P4_166770_415	NW_004516858.1	Scaffold1734	415	GG	AA	1947018765
SNP_P4_166771_417	NW_004516858.1	Scaffold1734	417	GG	AA	1947018767
SNP_P4_166772_437	NW_004516858.1	Scaffold1734	437	TT	CC	1947018769
SNP_P4_166773_462	NW_004516858.1	Scaffold1734	462	AA	TT	1947018771
SNP_P4_166774_464	NW_004516858.1	Scaffold1734	464	CC	TT	1947018773
SNP_P4_166776_796	NW_004516858.1	Scaffold1734	796	CC	TT	1947018775
SNP_P4_166777_811	NW_004516858.1	Scaffold1734	811	TT	CC	1947018777
SNP_P4_166778_2254	NW_004516858.1	Scaffold1734	2254	CC	TT	1947018779
SNP_P4_166779_6582	NW_004516858.1	Scaffold1734	6582	TT	CC	1947018781
SNP_P4_166780_6599	NW_004516858.1	Scaffold1734	6599	TT	CC	1947018784
SNP_P4_166781_7138	NW_004516858.1	Scaffold1734	7138	CC	TT	1947018786
SNP_P4_166782_7393	NW_004516858.1	Scaffold1734	7393	GG	TT	1947018788
SNP_P4_166783_7595	NW_004516858.1	Scaffold1734	7595	AA	GG	1947018790
SNP_P4_166784_7596	NW_004516858.1	Scaffold1734	7596	TT	AA	1947018792
SNP_P4_166785_7819	NW_004516858.1	Scaffold1734	7819	CC	TT	1947018794
SNP_P4_166786_7891	NW_004516858.1	Scaffold1734	7891	CC	AA	1947018796

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_166788_9961	NW_004516858.1	Scaffold1734	9961	AA	TT	1947018800
SNP_P4_166789_10087	NW_004516858.1	Scaffold1734	10087	TT	CC	1947018802
SNP_P4_166790_10323	NW_004516858.1	Scaffold1734	10323	GG	AA	1947018804
SNP_P4_166791_10335	NW_004516858.1	Scaffold1734	10335	AA	TT	1947018806
SNP_P4_166792_10362	NW_004516858.1	Scaffold1734	10362	TT	CC	1947018808
SNP_P4_166793_10471	NW_004516858.1	Scaffold1734	10471	TT	CC	1947018810
SNP_P4_166794_10583	NW_004516858.1	Scaffold1734	10583	GG	AA	1947018812
SNP_P4_166795_3691	NW_004516859.1	Scaffold1736	3691	AA	GG	1947018814
SNP_P4_166796_7728	NW_004516859.1	Scaffold1736	7728	TT	CC	1947018816
SNP_P4_166797_8179	NW_004516859.1	Scaffold1736	8179	TT	CC	1947018818
SNP_P4_166798_8236	NW_004516859.1	Scaffold1736	8236	GG	AA	1947018820
SNP_P4_166799_8334	NW_004516859.1	Scaffold1736	8334	AA	GG	1947018822
SNP_P4_166800_8623	NW_004516859.1	Scaffold1736	8623	GG	AA	1947018824
SNP_P4_166801_8742	NW_004516859.1	Scaffold1736	8742	TT	CC	1947018826
SNP_P4_166802_8789	NW_004516859.1	Scaffold1736	8789	CC	TT	1947018828
SNP_P4_166803_8792	NW_004516859.1	Scaffold1736	8792	GG	AA	1947018830
SNP_P4_166804_8855	NW_004516859.1	Scaffold1736	8855	CC	TT	1947018832
SNP_P4_166805_8858	NW_004516859.1	Scaffold1736	8858	CC	TT	1947018834
SNP_P4_166806_17304	NW_004516859.1	Scaffold1736	17304	TT	CC	1947018836
SNP_P4_166807_17570	NW_004516859.1	Scaffold1736	17570	AA	GG	1947018838
SNP_P4_166809_27661	NW_004516859.1	Scaffold1736	27661	TT	CC	1947018840
SNP_P4_166810_27691	NW_004516859.1	Scaffold1736	27691	GG	TT	1947018842
SNP_P4_166811_32471	NW_004516859.1	Scaffold1736	32471	TT	CC	1947018844
SNP_P4_166812_32479	NW_004516859.1	Scaffold1736	32479	CC	TT	1947018846
SNP_P4_166813_32589	NW_004516859.1	Scaffold1736	32589	TT	GG	1947018848
SNP_P4_166814_1338	NW_004516861.1	Scaffold1739	1338	AA	GG	1947018850
SNP_P4_166815_1688	NW_004516861.1	Scaffold1739	1688	TT	GG	1947018852
SNP_P4_166816_431	NW_004516862.1	Scaffold1740	431	GG	AA	1947018854
SNP_P4_166818_929	NW_004516862.1	Scaffold1740	929	TT	GG	1947018856
SNP_P4_166819_1026	NW_004516862.1	Scaffold1740	1026	GG	AA	1947018858
SNP_P4_166820_1055	NW_004516862.1	Scaffold1740	1055	TT	GG	1947018860
SNP_P4_166821_1422	NW_004516862.1	Scaffold1740	1422	CC	TT	1947018862
SNP_P4_166822_1495	NW_004516862.1	Scaffold1740	1495	GG	TT	1947018864
SNP_P4_166823_2186	NW_004516862.1	Scaffold1740	2186	GG	TT	1947018866
SNP_P4_166824_2422	NW_004516862.1	Scaffold1740	2422	GG	AA	1947018868
SNP_P4_166825_2428	NW_004516862.1	Scaffold1740	2428	TT	CC	1947018870
SNP_P4_166826_2462	NW_004516862.1	Scaffold1740	2462	GG	AA	1947018872
SNP_P4_166828_4907	NW_004516862.1	Scaffold1740	4907	CC	AA	1947018874
SNP_P4_166829_5017	NW_004516862.1	Scaffold1740	5017	GG	CC	1947018876
SNP_P4_166830_5058	NW_004516862.1	Scaffold1740	5058	CC	TT	1947018878
SNP_P4_166831_5084	NW_004516862.1	Scaffold1740	5084	GG	TT	1947018880

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_166832_5247	NW_004516862.1	Scaffold1740	5247	CC	TT	1947018882
SNP_P4_166833_5248	NW_004516862.1	Scaffold1740	5248	GG	AA	1947018884
SNP_P4_166834_5277	NW_004516862.1	Scaffold1740	5277	GG	AA	1947018886
SNP_P4_166835_16506	NW_004516862.1	Scaffold1740	16506	TT	GG	1947018888
SNP_P4_166836_16526	NW_004516862.1	Scaffold1740	16526	TT	CC	1947018890
SNP_P4_166837_16680	NW_004516862.1	Scaffold1740	16680	CC	GG	1947018892
SNP_P4_166838_4820	NW_004516863.1	Scaffold1742	4820	GG	AA	1947018894
SNP_P4_166839_881	NW_004516866.1	Scaffold1745	881	AA	GG	1947018896
SNP_P4_166840_883	NW_004516866.1	Scaffold1745	883	AA	CC	1947018898
SNP_P4_166841_1126	NW_004516866.1	Scaffold1745	1126	CC	AA	1947018901
SNP_P4_166842_1498	NW_004516866.1	Scaffold1745	1498	AA	GG	1947018903
SNP_P4_166843_1501	NW_004516866.1	Scaffold1745	1501	GG	CC	1947018905
SNP_P4_166844_2645	NW_004516866.1	Scaffold1745	2645	TT	GG	1947018907
SNP_P4_166845_2653	NW_004516866.1	Scaffold1745	2653	CC	TT	1947018909
SNP_P4_166846_3302	NW_004516866.1	Scaffold1745	3302	AA	TT	1947018911
SNP_P4_166847_3469	NW_004516866.1	Scaffold1745	3469	GG	AA	1947018913
SNP_P4_166848_3635	NW_004516866.1	Scaffold1745	3635	CC	TT	1947018915
SNP_P4_166849_3657	NW_004516866.1	Scaffold1745	3657	AA	TT	1947018917
SNP_P4_166850_4675	NW_004516866.1	Scaffold1745	4675	TT	GG	1947018919
SNP_P4_166851_4794	NW_004516866.1	Scaffold1745	4794	CC	TT	1947018921
SNP_P4_166852_4908	NW_004516866.1	Scaffold1745	4908	AA	GG	1947018923
SNP_P4_166853_5069	NW_004516866.1	Scaffold1745	5069	AA	GG	1947018925
SNP_P4_166854_44921	NW_004516870.1	Scaffold1750	44921	TT	CC	1947018927
SNP_P4_166855_59718	NW_004516870.1	Scaffold1750	59718	GG	AA	1947018929
SNP_P4_166856_112945	NW_004516870.1	Scaffold1750	112945	AA	GG	1947018931
SNP_P4_166857_112955	NW_004516870.1	Scaffold1750	112955	GG	TT	1947018933
SNP_P4_166858_112957	NW_004516870.1	Scaffold1750	112957	AA	CC	1947018935
SNP_P4_166859_113141	NW_004516870.1	Scaffold1750	113141	CC	TT	1947018937
SNP_P4_166860_113258	NW_004516870.1	Scaffold1750	113258	AA	GG	1947018939
SNP_P4_166861_138165	NW_004516870.1	Scaffold1750	138165	CC	TT	1947018941
SNP_P4_166862_151751	NW_004516870.1	Scaffold1750	151751	TT	CC	1947018943
SNP_P4_166863_151810	NW_004516870.1	Scaffold1750	151810	AA	GG	1947018945
SNP_P4_166864_152168	NW_004516870.1	Scaffold1750	152168	CC	AA	1947018947
SNP_P4_166865_152174	NW_004516870.1	Scaffold1750	152174	CC	TT	1947018949
SNP_P4_166866_152202	NW_004516870.1	Scaffold1750	152202	GG	TT	1947018951
SNP_P4_166867_177578	NW_004516870.1	Scaffold1750	177578	TT	CC	1947018953
SNP_P4_166868_227161	NW_004516870.1	Scaffold1750	227161	TT	CC	1947018955
SNP_P4_166869_228572	NW_004516870.1	Scaffold1750	228572	TT	CC	1947018957
SNP_P4_166871_229469	NW_004516870.1	Scaffold1750	229469	TT	CC	1947018959
SNP_P4_166872_236063	NW_004516870.1	Scaffold1750	236063	AA	CC	1947018961
SNP_P4_166873_236652	NW_004516870.1	Scaffold1750	236652	GG	AA	1947018963
SNP_P4_166874_237017	NW_004516870.1	Scaffold1750	237017	GG	AA	1947018965

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_166875_242836	NW_004516870.1	Scaffold1750	242836	AA	GG	1947018967
SNP_P4_166876_251690	NW_004516870.1	Scaffold1750	251690	AA	GG	1947018969
SNP_P4_166877_258882	NW_004516870.1	Scaffold1750	258882	CC	TT	1947018971
SNP_P4_166878_258884	NW_004516870.1	Scaffold1750	258884	TT	GG	1947018973
SNP_P4_166879_826	NW_004516871.1	Scaffold1751	826	AA	GG	1947018975
SNP_P4_166880_2900	NW_004516871.1	Scaffold1751	2900	TT	AA	1947018977
SNP_P4_166881_6165	NW_004516871.1	Scaffold1751	6165	TT	AA	1947018979
SNP_P4_166882_6177	NW_004516871.1	Scaffold1751	6177	TT	AA	1947018981
SNP_P4_166883_6226	NW_004516871.1	Scaffold1751	6226	TT	AA	1947018983
SNP_P4_166884_6239	NW_004516871.1	Scaffold1751	6239	AA	GG	1947018985
SNP_P4_166885_8044	NW_004516871.1	Scaffold1751	8044	GG	TT	1947018987
SNP_P4_166886_8742	NW_004516871.1	Scaffold1751	8742	GG	TT	1947018989
SNP_P4_166887_9041	NW_004516871.1	Scaffold1751	9041	AA	GG	1947018991
SNP_P4_166888_11670	NW_004516871.1	Scaffold1751	11670	AA	CC	1947018993
SNP_P4_166889_14860	NW_004516871.1	Scaffold1751	14860	CC	AA	1947018995
SNP_P4_166891_15633	NW_004516871.1	Scaffold1751	15633	AA	CC	1947018997
SNP_P4_166892_15689	NW_004516871.1	Scaffold1751	15689	CC	AA	1947018999
SNP_P4_166893_16041	NW_004516871.1	Scaffold1751	16041	AA	CC	1947019001
SNP_P4_166894_16044	NW_004516871.1	Scaffold1751	16044	TT	CC	1947019003
SNP_P4_166895_17601	NW_004516871.1	Scaffold1751	17601	AA	GG	1947019005
SNP_P4_166896_33277	NW_004516871.1	Scaffold1751	33277	GG	TT	1947019007
SNP_P4_166897_33308	NW_004516871.1	Scaffold1751	33308	CC	AA	1947019009
SNP_P4_166898_38362	NW_004516871.1	Scaffold1751	38362	AA	TT	1947019010
SNP_P4_166900_41281	NW_004516871.1	Scaffold1751	41281	AA	TT	1947019012
SNP_P4_166901_41681	NW_004516871.1	Scaffold1751	41681	AA	TT	1947019014
SNP_P4_166902_48079	NW_004516871.1	Scaffold1751	48079	CC	AA	1947019016
SNP_P4_166903_54546	NW_004516871.1	Scaffold1751	54546	AA	TT	1947019018
SNP_P4_166904_58521	NW_004516871.1	Scaffold1751	58521	TT	AA	1947019020
SNP_P4_166905_58598	NW_004516871.1	Scaffold1751	58598	AA	GG	1947019022
SNP_P4_166906_63272	NW_004516871.1	Scaffold1751	63272	TT	CC	1947019024
SNP_P4_166907_63358	NW_004516871.1	Scaffold1751	63358	AA	TT	1947019026
SNP_P4_166908_63359	NW_004516871.1	Scaffold1751	63359	AA	TT	1947019028
SNP_P4_166909_63373	NW_004516871.1	Scaffold1751	63373	GG	AA	1947019029
SNP_P4_166910_63376	NW_004516871.1	Scaffold1751	63376	TT	GG	1947019031
SNP_P4_166911_63441	NW_004516871.1	Scaffold1751	63441	TT	CC	1947019033
SNP_P4_166912_63482	NW_004516871.1	Scaffold1751	63482	TT	GG	1947019035
SNP_P4_166913_63487	NW_004516871.1	Scaffold1751	63487	CC	TT	1947019037
SNP_P4_166914_64788	NW_004516871.1	Scaffold1751	64788	CC	TT	1947019039
SNP_P4_166915_64805	NW_004516871.1	Scaffold1751	64805	CC	TT	1947019041
SNP_P4_166916_65096	NW_004516871.1	Scaffold1751	65096	TT	CC	1947019043
SNP_P4_166917_65108	NW_004516871.1	Scaffold1751	65108	AA	GG	1947019044
SNP_P4_166918_65138	NW_004516871.1	Scaffold1751	65138	GG	AA	1947019046

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_166919_65302	NW_004516871.1	Scaffold1751	65302	GG	AA	1947019048
SNP_P4_166920_65314	NW_004516871.1	Scaffold1751	65314	AA	TT	1947019050
SNP_P4_166921_65323	NW_004516871.1	Scaffold1751	65323	CC	TT	1947019052
SNP_P4_166922_65332	NW_004516871.1	Scaffold1751	65332	TT	CC	1947019054
SNP_P4_166923_65334	NW_004516871.1	Scaffold1751	65334	AA	GG	1947019056
SNP_P4_166924_65338	NW_004516871.1	Scaffold1751	65338	TT	CC	1947019058
SNP_P4_166925_65356	NW_004516871.1	Scaffold1751	65356	GG	AA	1947019060
SNP_P4_166926_65362	NW_004516871.1	Scaffold1751	65362	AA	TT	1947019062
SNP_P4_166927_65378	NW_004516871.1	Scaffold1751	65378	TT	GG	1947019064
SNP_P4_166928_65467	NW_004516871.1	Scaffold1751	65467	TT	CC	1947019066
SNP_P4_166929_68958	NW_004516871.1	Scaffold1751	68958	CC	TT	1947019068
SNP_P4_166930_68962	NW_004516871.1	Scaffold1751	68962	CC	TT	1947019070
SNP_P4_166931_68965	NW_004516871.1	Scaffold1751	68965	GG	TT	1947019072
SNP_P4_166932_68966	NW_004516871.1	Scaffold1751	68966	AA	CC	1947019074
SNP_P4_166933_68991	NW_004516871.1	Scaffold1751	68991	GG	AA	1947019076
SNP_P4_166934_68998	NW_004516871.1	Scaffold1751	68998	AA	GG	1947019078
SNP_P4_166935_69005	NW_004516871.1	Scaffold1751	69005	GG	TT	1947019080
SNP_P4_166936_69036	NW_004516871.1	Scaffold1751	69036	AA	GG	1947019081
SNP_P4_166937_69043	NW_004516871.1	Scaffold1751	69043	AA	GG	1947019083
SNP_P4_166938_69049	NW_004516871.1	Scaffold1751	69049	GG	AA	1947019085
SNP_P4_166939_69055	NW_004516871.1	Scaffold1751	69055	AA	GG	1947019087
SNP_P4_166940_69103	NW_004516871.1	Scaffold1751	69103	AA	GG	1947019089
SNP_P4_166941_69178	NW_004516871.1	Scaffold1751	69178	CC	TT	1947019091
SNP_P4_166942_73398	NW_004516871.1	Scaffold1751	73398	AA	TT	1947019093
SNP_P4_166943_76481	NW_004516871.1	Scaffold1751	76481	AA	TT	1947019095
SNP_P4_166944_109091	NW_004516871.1	Scaffold1751	109091	AA	CC	1947019097
SNP_P4_166945_114202	NW_004516871.1	Scaffold1751	114202	AA	GG	1947019099
SNP_P4_166946_114224	NW_004516871.1	Scaffold1751	114224	TT	AA	1947019101
SNP_P4_166947_127537	NW_004516871.1	Scaffold1751	127537	CC	AA	1947019103
SNP_P4_166949_127615	NW_004516871.1	Scaffold1751	127615	AA	CC	1947019104
SNP_P4_166950_128226	NW_004516871.1	Scaffold1751	128226	CC	AA	1947019106
SNP_P4_166951_139570	NW_004516871.1	Scaffold1751	139570	TT	AA	1947019108
SNP_P4_166952_144109	NW_004516871.1	Scaffold1751	144109	CC	GG	1947019110
SNP_P4_166953_144337	NW_004516871.1	Scaffold1751	144337	CC	TT	1947019112
SNP_P4_166954_145802	NW_004516871.1	Scaffold1751	145802	GG	TT	1947019114
SNP_P4_166955_145807	NW_004516871.1	Scaffold1751	145807	TT	CC	1947019116
SNP_P4_166956_147212	NW_004516871.1	Scaffold1751	147212	AA	CC	1947019117
SNP_P4_166957_148761	NW_004516871.1	Scaffold1751	148761	CC	TT	1947019119
SNP_P4_166958_148764	NW_004516871.1	Scaffold1751	148764	AA	TT	1947019121
SNP_P4_166959_148769	NW_004516871.1	Scaffold1751	148769	TT	GG	1947019123
SNP_P4_166960_148772	NW_004516871.1	Scaffold1751	148772	CC	TT	1947019125
SNP_P4_166961_148775	NW_004516871.1	Scaffold1751	148775	CC	TT	1947019127

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_166963_158857	NW_004516871.1	Scaffold1751	158857	AA	CC	1947019130
SNP_P4_166964_159199	NW_004516871.1	Scaffold1751	159199	GG	TT	1947019132
SNP_P4_166965_159208	NW_004516871.1	Scaffold1751	159208	GG	TT	1947019134
SNP_P4_166966_159227	NW_004516871.1	Scaffold1751	159227	GG	AA	1947019136
SNP_P4_166967_159617	NW_004516871.1	Scaffold1751	159617	CC	TT	1947019138
SNP_P4_166968_164351	NW_004516871.1	Scaffold1751	164351	CC	TT	1947019140
SNP_P4_166969_164352	NW_004516871.1	Scaffold1751	164352	AA	GG	1947019142
SNP_P4_166970_164358	NW_004516871.1	Scaffold1751	164358	TT	GG	1947019144
SNP_P4_166971_167201	NW_004516871.1	Scaffold1751	167201	AA	CC	1947019146
SNP_P4_166972_167206	NW_004516871.1	Scaffold1751	167206	AA	TT	1947019148
SNP_P4_166973_167217	NW_004516871.1	Scaffold1751	167217	AA	TT	1947019150
SNP_P4_166974_168755	NW_004516871.1	Scaffold1751	168755	AA	TT	1947019151
SNP_P4_166975_174390	NW_004516871.1	Scaffold1751	174390	TT	CC	1947019153
SNP_P4_166976_178811	NW_004516871.1	Scaffold1751	178811	TT	CC	1947019155
SNP_P4_166977_188477	NW_004516871.1	Scaffold1751	188477	TT	CC	1947019157
SNP_P4_166978_193883	NW_004516871.1	Scaffold1751	193883	AA	CC	1947019159
SNP_P4_166979_194210	NW_004516871.1	Scaffold1751	194210	AA	GG	1947019161
SNP_P4_166980_194531	NW_004516871.1	Scaffold1751	194531	CC	AA	1947019163
SNP_P4_166981_201478	NW_004516871.1	Scaffold1751	201478	CC	TT	1947019165
SNP_P4_166982_203844	NW_004516871.1	Scaffold1751	203844	GG	AA	1947019167
SNP_P4_166984_266355	NW_004516871.1	Scaffold1751	266355	AA	CC	1947019168
SNP_P4_166985_267262	NW_004516871.1	Scaffold1751	267262	TT	CC	1947019170
SNP_P4_166986_267335	NW_004516871.1	Scaffold1751	267335	TT	AA	1947019172
SNP_P4_166988_316880	NW_004516871.1	Scaffold1751	316880	GG	AA	1947019174
SNP_P4_166989_349443	NW_004516871.1	Scaffold1751	349443	GG	AA	1947019176
SNP_P4_166991_362158	NW_004516871.1	Scaffold1751	362158	AA	GG	1947019178
SNP_P4_166992_362200	NW_004516871.1	Scaffold1751	362200	TT	AA	1947019180
SNP_P4_166993_381808	NW_004516871.1	Scaffold1751	381808	CC	GG	1947019182
SNP_P4_166994_383987	NW_004516871.1	Scaffold1751	383987	CC	GG	1947019184
SNP_P4_166995_390831	NW_004516871.1	Scaffold1751	390831	CC	AA	1947019186
SNP_P4_166996_423682	NW_004516871.1	Scaffold1751	423682	CC	TT	1947019188
SNP_P4_166997_423736	NW_004516871.1	Scaffold1751	423736	TT	CC	1947019190
SNP_P4_166998_423767	NW_004516871.1	Scaffold1751	423767	AA	GG	1947019191
SNP_P4_166999_423770	NW_004516871.1	Scaffold1751	423770	CC	TT	1947019193
SNP_P4_167000_423816	NW_004516871.1	Scaffold1751	423816	TT	CC	1947019195
SNP_P4_167001_423817	NW_004516871.1	Scaffold1751	423817	TT	AA	1947019197
SNP_P4_167002_423818	NW_004516871.1	Scaffold1751	423818	AA	GG	1947019199
SNP_P4_167003_425043	NW_004516871.1	Scaffold1751	425043	AA	TT	1947019201
SNP_P4_167004_425045	NW_004516871.1	Scaffold1751	425045	CC	TT	1947019203
SNP_P4_167005_425066	NW_004516871.1	Scaffold1751	425066	AA	GG	1947019205
SNP_P4_167006_425085	NW_004516871.1	Scaffold1751	425085	AA	TT	1947019207

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_167008_426264	NW_004516871.1	Scaffold1751	426264	AA	GG	1947019210
SNP_P4_167009_426276	NW_004516871.1	Scaffold1751	426276	TT	CC	1947019212
SNP_P4_167010_426293	NW_004516871.1	Scaffold1751	426293	GG	TT	1947019214
SNP_P4_167011_430334	NW_004516871.1	Scaffold1751	430334	CC	TT	1947019216
SNP_P4_167013_448976	NW_004516871.1	Scaffold1751	448976	AA	GG	1947019218
SNP_P4_167014_448991	NW_004516871.1	Scaffold1751	448991	GG	AA	1947019220
SNP_P4_167015_449086	NW_004516871.1	Scaffold1751	449086	TT	AA	1947019222
SNP_P4_167016_449089	NW_004516871.1	Scaffold1751	449089	CC	TT	1947019224
SNP_P4_167017_451182	NW_004516871.1	Scaffold1751	451182	TT	GG	1947019225
SNP_P4_167018_451196	NW_004516871.1	Scaffold1751	451196	TT	CC	1947019227
SNP_P4_167019_451214	NW_004516871.1	Scaffold1751	451214	TT	CC	1947019229
SNP_P4_167020_451220	NW_004516871.1	Scaffold1751	451220	TT	CC	1947019231
SNP_P4_167021_451248	NW_004516871.1	Scaffold1751	451248	TT	CC	1947019233
SNP_P4_167022_455873	NW_004516871.1	Scaffold1751	455873	CC	TT	1947019235
SNP_P4_167023_455887	NW_004516871.1	Scaffold1751	455887	CC	TT	1947019237
SNP_P4_167024_519325	NW_004516871.1	Scaffold1751	519325	TT	CC	1947019239
SNP_P4_167025_525768	NW_004516871.1	Scaffold1751	525768	CC	TT	1947019241
SNP_P4_167027_547001	NW_004516871.1	Scaffold1751	547001	GG	CC	1947019243
SNP_P4_167028_547874	NW_004516871.1	Scaffold1751	547874	TT	GG	1947019244
SNP_P4_167029_552988	NW_004516871.1	Scaffold1751	552988	CC	TT	1947019246
SNP_P4_167030_553008	NW_004516871.1	Scaffold1751	553008	TT	GG	1947019248
SNP_P4_167031_556706	NW_004516871.1	Scaffold1751	556706	AA	GG	1947019250
SNP_P4_167032_624724	NW_004516871.1	Scaffold1751	624724	GG	CC	1947019252
SNP_P4_167033_624737	NW_004516871.1	Scaffold1751	624737	CC	GG	1947019254
SNP_P4_167034_624820	NW_004516871.1	Scaffold1751	624820	TT	CC	1947019256
SNP_P4_167035_631374	NW_004516871.1	Scaffold1751	631374	TT	CC	1947019258
SNP_P4_167036_631455	NW_004516871.1	Scaffold1751	631455	AA	GG	1947019260
SNP_P4_167037_631505	NW_004516871.1	Scaffold1751	631505	AA	GG	1947019262
SNP_P4_167038_631894	NW_004516871.1	Scaffold1751	631894	TT	AA	1947019263
SNP_P4_167039_631982	NW_004516871.1	Scaffold1751	631982	TT	AA	1947019265
SNP_P4_167040_632104	NW_004516871.1	Scaffold1751	632104	GG	AA	1947019267
SNP_P4_167041_632720	NW_004516871.1	Scaffold1751	632720	GG	AA	1947019269
SNP_P4_167042_632894	NW_004516871.1	Scaffold1751	632894	TT	CC	1947019271
SNP_P4_167043_396	NW_004516872.1	Scaffold1752	396	GG	CC	1947019273
SNP_P4_167044_825	NW_004516872.1	Scaffold1752	825	TT	CC	1947019275
SNP_P4_167045_862	NW_004516872.1	Scaffold1752	862	AA	CC	1947019277
SNP_P4_167046_4861	NW_004516873.1	Scaffold1754	4861	TT	CC	1947019279
SNP_P4_167047_4919	NW_004516873.1	Scaffold1754	4919	TT	GG	1947019281
SNP_P4_167048_6166	NW_004516873.1	Scaffold1754	6166	TT	CC	1947019283
SNP_P4_167049_6171	NW_004516873.1	Scaffold1754	6171	TT	CC	1947019284
SNP_P4_167050_6174	NW_004516873.1	Scaffold1754	6174	AA	GG	1947019286

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_167053_6513	NW_004516873.1	Scaffold1754	6513	TT	CC	1947019292
SNP_P4_167054_6638	NW_004516873.1	Scaffold1754	6638	GG	AA	1947019294
SNP_P4_167055_6716	NW_004516873.1	Scaffold1754	6716	TT	GG	1947019296
SNP_P4_167056_6939	NW_004516873.1	Scaffold1754	6939	GG	TT	1947019298
SNP_P4_167057_6963	NW_004516873.1	Scaffold1754	6963	AA	CC	1947019299
SNP_P4_167058_6972	NW_004516873.1	Scaffold1754	6972	GG	AA	1947019301
SNP_P4_167059_7046	NW_004516873.1	Scaffold1754	7046	GG	CC	1947019303
SNP_P4_167060_497	NW_004516874.1	Scaffold1755	497	AA	GG	1947019305
SNP_P4_167061_808	NW_004516874.1	Scaffold1755	808	AA	TT	1947019307
SNP_P4_167062_809	NW_004516874.1	Scaffold1755	809	TT	AA	1947019309
SNP_P4_167063_10385	NW_004516874.1	Scaffold1755	10385	TT	AA	1947019311
SNP_P4_167064_10388	NW_004516874.1	Scaffold1755	10388	TT	CC	1947019313
SNP_P4_167065_10409	NW_004516874.1	Scaffold1755	10409	AA	TT	1947019314
SNP_P4_167066_10460	NW_004516874.1	Scaffold1755	10460	GG	AA	1947019316
SNP_P4_167067_10487	NW_004516874.1	Scaffold1755	10487	AA	TT	1947019318
SNP_P4_167068_10806	NW_004516874.1	Scaffold1755	10806	TT	CC	1947019320
SNP_P4_167069_10901	NW_004516874.1	Scaffold1755	10901	AA	GG	1947019322
SNP_P4_167070_10920	NW_004516874.1	Scaffold1755	10920	GG	AA	1947019324
SNP_P4_167071_12356	NW_004516874.1	Scaffold1755	12356	AA	GG	1947019326
SNP_P4_167072_13493	NW_004516874.1	Scaffold1755	13493	TT	AA	1947019328
SNP_P4_167073_13500	NW_004516874.1	Scaffold1755	13500	TT	CC	1947019330
SNP_P4_167074_13570	NW_004516874.1	Scaffold1755	13570	AA	CC	1947019332
SNP_P4_167075_15523	NW_004516874.1	Scaffold1755	15523	AA	GG	1947019334
SNP_P4_167076_17971	NW_004516874.1	Scaffold1755	17971	GG	AA	1947019336
SNP_P4_167077_23850	NW_004516874.1	Scaffold1755	23850	AA	GG	1947019338
SNP_P4_167078_24017	NW_004516874.1	Scaffold1755	24017	TT	GG	1947019340
SNP_P4_167079_25225	NW_004516874.1	Scaffold1755	25225	AA	TT	1947019342
SNP_P4_167080_29419	NW_004516874.1	Scaffold1755	29419	CC	TT	1947019343
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SNP_P4_167083_32787	NW_004516874.1	Scaffold1755	32787	GG	AA	1947019349
SNP_P4_167084_33107	NW_004516874.1	Scaffold1755	33107	GG	TT	1947019351
SNP_P4_167085_33192	NW_004516874.1	Scaffold1755	33192	CC	AA	1947019353
SNP_P4_167086_33270	NW_004516874.1	Scaffold1755	33270	TT	CC	1947019355
SNP_P4_167087_33520	NW_004516874.1	Scaffold1755	33520	TT	CC	1947019357
SNP_P4_167088_33554	NW_004516874.1	Scaffold1755	33554	TT	CC	1947019359
SNP_P4_167089_33556	NW_004516874.1	Scaffold1755	33556	AA	CC	1947019361
SNP_P4_167091_34258	NW_004516874.1	Scaffold1755	34258	TT	CC	1947019363
SNP_P4_167092_41384	NW_004516874.1	Scaffold1755	41384	TT	GG	1947019365
SNP_P4_167093_41385	NW_004516874.1	Scaffold1755	41385	AA	TT	1947019367

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_167096_41449	NW_004516874.1	Scaffold1755	41449	AA	GG	1947019373
SNP_P4_167097_41451	NW_004516874.1	Scaffold1755	41451	TT	GG	1947019375
SNP_P4_167099_64973	NW_004516874.1	Scaffold1755	64973	TT	CC	1947019377
SNP_P4_167101_126132	NW_004516874.1	Scaffold1755	126132	CC	GG	1947019379
SNP_P4_167102_126183	NW_004516874.1	Scaffold1755	126183	AA	TT	1947019381
SNP_P4_167103_126195	NW_004516874.1	Scaffold1755	126195	AA	CC	1947019383
SNP_P4_167104_126272	NW_004516874.1	Scaffold1755	126272	AA	GG	1947019385
SNP_P4_167105_126273	NW_004516874.1	Scaffold1755	126273	AA	TT	1947019387
SNP_P4_167106_126388	NW_004516874.1	Scaffold1755	126388	AA	CC	1947019389
SNP_P4_167107_126707	NW_004516874.1	Scaffold1755	126707	GG	AA	1947019391
SNP_P4_167108_126712	NW_004516874.1	Scaffold1755	126712	AA	TT	1947019393
SNP_P4_167109_126750	NW_004516874.1	Scaffold1755	126750	TT	CC	1947019395
SNP_P4_167110_126757	NW_004516874.1	Scaffold1755	126757	AA	GG	1947019397
SNP_P4_167111_126796	NW_004516874.1	Scaffold1755	126796	CC	TT	1947019399
SNP_P4_167112_126805	NW_004516874.1	Scaffold1755	126805	AA	CC	1947019401
SNP_P4_167113_127152	NW_004516874.1	Scaffold1755	127152	GG	TT	1947019403
SNP_P4_167114_127154	NW_004516874.1	Scaffold1755	127154	AA	TT	1947019404
SNP_P4_167115_127838	NW_004516874.1	Scaffold1755	127838	CC	AA	1947019406
SNP_P4_167116_128707	NW_004516874.1	Scaffold1755	128707	CC	TT	1947019408
SNP_P4_167117_128710	NW_004516874.1	Scaffold1755	128710	TT	GG	1947019410
SNP_P4_167119_128794	NW_004516874.1	Scaffold1755	128794	AA	GG	1947019412
SNP_P4_167120_128991	NW_004516874.1	Scaffold1755	128991	TT	GG	1947019414
SNP_P4_167121_129023	NW_004516874.1	Scaffold1755	129023	CC	TT	1947019416
SNP_P4_167122_129030	NW_004516874.1	Scaffold1755	129030	AA	GG	1947019418
SNP_P4_167123_129036	NW_004516874.1	Scaffold1755	129036	TT	AA	1947019420
SNP_P4_167124_129054	NW_004516874.1	Scaffold1755	129054	TT	CC	1947019422
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SNP_P4_167126_129084	NW_004516874.1	Scaffold1755	129084	TT	GG	1947019426
SNP_P4_167127_129091	NW_004516874.1	Scaffold1755	129091	TT	GG	1947019428
SNP_P4_167128_129093	NW_004516874.1	Scaffold1755	129093	CC	GG	1947019430
SNP_P4_167129_129130	NW_004516874.1	Scaffold1755	129130	AA	GG	1947019432
SNP_P4_167131_129151	NW_004516874.1	Scaffold1755	129151	TT	CC	1947019434
SNP_P4_167132_165	NW_004516875.1	Scaffold1756	165	GG	AA	1947019436
SNP_P4_167133_172	NW_004516875.1	Scaffold1756	172	TT	GG	1947019437
SNP_P4_167134_372	NW_004516875.1	Scaffold1756	372	GG	AA	1947019439
SNP_P4_167135_922	NW_004516875.1	Scaffold1756	922	TT	AA	1947019441
SNP_P4_167136_937	NW_004516875.1	Scaffold1756	937	GG	TT	1947019443
SNP_P4_167137_974	NW_004516875.1	Scaffold1756	974	CC	TT	1947019445
SNP_P4_167138_1351	NW_004516875.1	Scaffold1756	1351	GG	AA	1947019447
SNP_P4_167139_3215	NW_004516875.1	Scaffold1756	3215	GG	AA	1947019449

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_167142_4677	NW_004516875.1	Scaffold1756	4677	GG	AA	1947019452
SNP_P4_167143_4787	NW_004516875.1	Scaffold1756	4787	GG	AA	1947019454
SNP_P4_167144_5156	NW_004516875.1	Scaffold1756	5156	CC	TT	1947019456
SNP_P4_167146_6600	NW_004516875.1	Scaffold1756	6600	CC	TT	1947019458
SNP_P4_167148_54817	NW_004516875.1	Scaffold1756	54817	GG	TT	1947019460
SNP_P4_167149_54842	NW_004516875.1	Scaffold1756	54842	TT	CC	1947019462
SNP_P4_167150_55004	NW_004516875.1	Scaffold1756	55004	TT	CC	1947019464
SNP_P4_167151_55231	NW_004516875.1	Scaffold1756	55231	GG	AA	1947019466
SNP_P4_167152_55295	NW_004516875.1	Scaffold1756	55295	TT	CC	1947019468
SNP_P4_167153_56863	NW_004516875.1	Scaffold1756	56863	TT	CC	1947019469
SNP_P4_167154_56876	NW_004516875.1	Scaffold1756	56876	CC	TT	1947019471
SNP_P4_167155_57243	NW_004516875.1	Scaffold1756	57243	TT	CC	1947019473
SNP_P4_167159_86108	NW_004516875.1	Scaffold1756	86108	CC	AA	1947019475
SNP_P4_167160_86258	NW_004516875.1	Scaffold1756	86258	AA	GG	1947019477
SNP_P4_167161_86516	NW_004516875.1	Scaffold1756	86516	GG	AA	1947019479
SNP_P4_167162_86525	NW_004516875.1	Scaffold1756	86525	GG	CC	1947019481
SNP_P4_167163_86544	NW_004516875.1	Scaffold1756	86544	AA	GG	1947019483
SNP_P4_167164_86553	NW_004516875.1	Scaffold1756	86553	GG	AA	1947019485
SNP_P4_167165_86581	NW_004516875.1	Scaffold1756	86581	TT	AA	1947019486
SNP_P4_167166_86591	NW_004516875.1	Scaffold1756	86591	TT	AA	1947019488
SNP_P4_167168_104201	NW_004516875.1	Scaffold1756	104201	AA	TT	1947019490
SNP_P4_167169_130815	NW_004516875.1	Scaffold1756	130815	CC	AA	1947019492
SNP_P4_167170_1055	NW_004516876.1	Scaffold1757	1055	GG	AA	1947019494
SNP_P4_167172_1271	NW_004516876.1	Scaffold1757	1271	GG	AA	1947019496
SNP_P4_167173_1272	NW_004516876.1	Scaffold1757	1272	CC	TT	1947019498
SNP_P4_167174_1274	NW_004516876.1	Scaffold1757	1274	TT	AA	1947019500
SNP_P4_167175_1275	NW_004516876.1	Scaffold1757	1275	GG	TT	1947019502
SNP_P4_167176_1306	NW_004516876.1	Scaffold1757	1306	AA	TT	1947019504
SNP_P4_167177_1307	NW_004516876.1	Scaffold1757	1307	TT	AA	1947019506
SNP_P4_167178_1805	NW_004516876.1	Scaffold1757	1805	GG	AA	1947019508
SNP_P4_167179_1863	NW_004516876.1	Scaffold1757	1863	TT	AA	1947019509
SNP_P4_167180_1938	NW_004516876.1	Scaffold1757	1938	TT	GG	1947019511
SNP_P4_167181_1946	NW_004516876.1	Scaffold1757	1946	CC	TT	1947019513
SNP_P4_167182_2092	NW_004516876.1	Scaffold1757	2092	AA	CC	1947019515
SNP_P4_167183_2123	NW_004516876.1	Scaffold1757	2123	GG	AA	1947019517
SNP_P4_167184_2179	NW_004516876.1	Scaffold1757	2179	AA	TT	1947019519
SNP_P4_167185_2372	NW_004516876.1	Scaffold1757	2372	AA	GG	1947019521
SNP_P4_167186_2406	NW_004516876.1	Scaffold1757	2406	TT	AA	1947019523
SNP_P4_167188_16538	NW_004516876.1	Scaffold1757	16538	TT	CC	1947019525
SNP_P4_167189_16576	NW_004516876.1	Scaffold1757	16576	AA	GG	1947019527
SNP_P4_167190_16840	NW_004516876.1	Scaffold1757	16840	TT	AA	1947019529

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_167192_23700	NW_004516876.1	Scaffold1757	23700	AA	TT	1947019533
SNP_P4_167193_25272	NW_004516876.1	Scaffold1757	25272	TT	CC	1947019535
SNP_P4_167194_25296	NW_004516876.1	Scaffold1757	25296	AA	TT	1947019537
SNP_P4_167195_25354	NW_004516876.1	Scaffold1757	25354	GG	AA	1947019538
SNP_P4_167196_25364	NW_004516876.1	Scaffold1757	25364	CC	AA	1947019540
SNP_P4_167197_25408	NW_004516876.1	Scaffold1757	25408	TT	CC	1947019542
SNP_P4_167198_25411	NW_004516876.1	Scaffold1757	25411	CC	TT	1947019544
SNP_P4_167199_25471	NW_004516876.1	Scaffold1757	25471	TT	GG	1947019546
SNP_P4_167200_25565	NW_004516876.1	Scaffold1757	25565	AA	GG	1947019548
SNP_P4_167201_25592	NW_004516876.1	Scaffold1757	25592	TT	CC	1947019550
SNP_P4_167202_25707	NW_004516876.1	Scaffold1757	25707	AA	CC	1947019552
SNP_P4_167203_25708	NW_004516876.1	Scaffold1757	25708	TT	CC	1947019554
SNP_P4_167204_25709	NW_004516876.1	Scaffold1757	25709	GG	CC	1947019556
SNP_P4_167205_25710	NW_004516876.1	Scaffold1757	25710	CC	TT	1947019558
SNP_P4_167206_25714	NW_004516876.1	Scaffold1757	25714	AA	GG	1947019560
SNP_P4_167207_26318	NW_004516876.1	Scaffold1757	26318	CC	AA	1947019562
SNP_P4_167208_26831	NW_004516876.1	Scaffold1757	26831	AA	GG	1947019564
SNP_P4_167209_27657	NW_004516876.1	Scaffold1757	27657	AA	GG	1947019566
SNP_P4_167210_29964	NW_004516876.1	Scaffold1757	29964	GG	AA	1947019568
SNP_P4_167211_31732	NW_004516876.1	Scaffold1757	31732	AA	CC	1947019570
SNP_P4_167212_31742	NW_004516876.1	Scaffold1757	31742	TT	AA	1947019572
SNP_P4_167214_62362	NW_004516876.1	Scaffold1757	62362	CC	TT	1947019574
SNP_P4_167216_86468	NW_004516876.1	Scaffold1757	86468	GG	CC	1947019576
SNP_P4_167218_107874	NW_004516876.1	Scaffold1757	107874	CC	TT	1947019578
SNP_P4_167221_131745	NW_004516876.1	Scaffold1757	131745	GG	AA	1947019580
SNP_P4_167222_151638	NW_004516876.1	Scaffold1757	151638	CC	TT	1947019582
SNP_P4_167223_151642	NW_004516876.1	Scaffold1757	151642	GG	AA	1947019584
SNP_P4_167224_151841	NW_004516876.1	Scaffold1757	151841	CC	AA	1947019586
SNP_P4_167225_3775	NW_004516877.1	Scaffold1761	3775	AA	GG	1947019588
SNP_P4_167226_3883	NW_004516877.1	Scaffold1761	3883	TT	CC	1947019590
SNP_P4_167227_3909	NW_004516877.1	Scaffold1761	3909	CC	TT	1947019592
SNP_P4_167228_3915	NW_004516877.1	Scaffold1761	3915	AA	CC	1947019594
SNP_P4_167229_3923	NW_004516877.1	Scaffold1761	3923	GG	TT	1947019596
SNP_P4_167230_4005	NW_004516877.1	Scaffold1761	4005	AA	CC	1947019598
SNP_P4_167231_4014	NW_004516877.1	Scaffold1761	4014	TT	CC	1947019600
SNP_P4_167232_4046	NW_004516877.1	Scaffold1761	4046	GG	AA	1947019602
SNP_P4_167233_4051	NW_004516877.1	Scaffold1761	4051	AA	GG	1947019604
SNP_P4_167234_4140	NW_004516877.1	Scaffold1761	4140	AA	GG	1947019606
SNP_P4_167235_4216	NW_004516877.1	Scaffold1761	4216	TT	CC	1947019608
SNP_P4_167236_4262	NW_004516877.1	Scaffold1761	4262	CC	AA	1947019610
SNP_P4_167237_4266	NW_004516877.1	Scaffold1761	4266	AA	CC	1947019612

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_167239_4294	NW_004516877.1	Scaffold1761	4294	TT	CC	1947019616
SNP_P4_167240_4352	NW_004516877.1	Scaffold1761	4352	TT	AA	1947019618
SNP_P4_167241_10869	NW_004516877.1	Scaffold1761	10869	AA	GG	1947019620
SNP_P4_167242_10919	NW_004516877.1	Scaffold1761	10919	CC	TT	1947019622
SNP_P4_167243_11320	NW_004516877.1	Scaffold1761	11320	TT	CC	1947019624
SNP_P4_167244_11372	NW_004516877.1	Scaffold1761	11372	TT	CC	1947019626
SNP_P4_167245_11415	NW_004516877.1	Scaffold1761	11415	TT	AA	1947019628
SNP_P4_167247_45434	NW_004516877.1	Scaffold1761	45434	CC	TT	1947019630
SNP_P4_167248_54513	NW_004516877.1	Scaffold1761	54513	CC	TT	1947019632
SNP_P4_167249_88805	NW_004516877.1	Scaffold1761	88805	AA	GG	1947019634
SNP_P4_167250_982	NW_004516878.1	Scaffold1762	982	TT	CC	1947019636
SNP_P4_167251_2220	NW_004516879.1	Scaffold1763	2220	CC	TT	1947019638
SNP_P4_167252_4437	NW_004516879.1	Scaffold1763	4437	CC	TT	1947019640
SNP_P4_167253_8457	NW_004516879.1	Scaffold1763	8457	GG	AA	1947019642
SNP_P4_167254_8481	NW_004516879.1	Scaffold1763	8481	TT	CC	1947019644
SNP_P4_167255_10551	NW_004516879.1	Scaffold1763	10551	AA	GG	1947019646
SNP_P4_167256_10578	NW_004516879.1	Scaffold1763	10578	AA	CC	1947019648
SNP_P4_167257_19142	NW_004516879.1	Scaffold1763	19142	GG	AA	1947019650
SNP_P4_167258_19167	NW_004516879.1	Scaffold1763	19167	AA	TT	1947019653
SNP_P4_167259_19169	NW_004516879.1	Scaffold1763	19169	AA	TT	1947019655
SNP_P4_167260_19185	NW_004516879.1	Scaffold1763	19185	CC	GG	1947019657
SNP_P4_167261_19194	NW_004516879.1	Scaffold1763	19194	TT	CC	1947019659
SNP_P4_167262_19261	NW_004516879.1	Scaffold1763	19261	AA	TT	1947019661
SNP_P4_167263_19265	NW_004516879.1	Scaffold1763	19265	TT	CC	1947019663
SNP_P4_167264_19273	NW_004516879.1	Scaffold1763	19273	AA	TT	1947019665
SNP_P4_167265_19425	NW_004516879.1	Scaffold1763	19425	AA	CC	1947019667
SNP_P4_167266_19459	NW_004516879.1	Scaffold1763	19459	TT	AA	1947019669
SNP_P4_167267_19460	NW_004516879.1	Scaffold1763	19460	CC	AA	1947019671
SNP_P4_167268_19461	NW_004516879.1	Scaffold1763	19461	AA	CC	1947019673
SNP_P4_167269_21683	NW_004516879.1	Scaffold1763	21683	GG	TT	1947019675
SNP_P4_167270_22475	NW_004516879.1	Scaffold1763	22475	CC	TT	1947019677
SNP_P4_167271_690	NW_004516880.1	Scaffold1767	690	TT	CC	1947019679
SNP_P4_167272_814	NW_004516880.1	Scaffold1767	814	GG	TT	1947019681
SNP_P4_167273_6091	NW_004516880.1	Scaffold1767	6091	GG	AA	1947019683
SNP_P4_167274_6361	NW_004516880.1	Scaffold1767	6361	AA	TT	1947019685
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SNP_P4_167276_7051	NW_004516880.1	Scaffold1767	7051	AA	GG	1947019689
SNP_P4_167277_7161	NW_004516880.1	Scaffold1767	7161	GG	AA	1947019691
SNP_P4_167278_8910	NW_004516880.1	Scaffold1767	8910	TT	CC	1947019693
SNP_P4_167279_8923	NW_004516880.1	Scaffold1767	8923	GG	AA	1947019695
SNP_P4_167280_15112	NW_004516880.1	Scaffold1767	15112	GG	AA	1947019697

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_167282_20588	NW_004516880.1	Scaffold1767	20588	AA	CC	1947019702
SNP_P4_167283_24728	NW_004516880.1	Scaffold1767	24728	TT	AA	1947019705
SNP_P4_167284_24793	NW_004516880.1	Scaffold1767	24793	TT	CC	1947019707
SNP_P4_167285_25113	NW_004516880.1	Scaffold1767	25113	TT	CC	1947019710
SNP_P4_167286_25128	NW_004516880.1	Scaffold1767	25128	GG	CC	1947019713
SNP_P4_167287_25238	NW_004516880.1	Scaffold1767	25238	TT	GG	1947019715
SNP_P4_167288_25375	NW_004516880.1	Scaffold1767	25375	GG	TT	1947019718
SNP_P4_167289_27951	NW_004516880.1	Scaffold1767	27951	TT	GG	1947019720
SNP_P4_167290_27967	NW_004516880.1	Scaffold1767	27967	AA	TT	1947019723
SNP_P4_167291_27980	NW_004516880.1	Scaffold1767	27980	TT	GG	1947019725
SNP_P4_167293_31461	NW_004516880.1	Scaffold1767	31461	AA	CC	1947019727
SNP_P4_167294_31487	NW_004516880.1	Scaffold1767	31487	CC	TT	1947019729
SNP_P4_167295_31515	NW_004516880.1	Scaffold1767	31515	AA	TT	1947019731
SNP_P4_167296_31527	NW_004516880.1	Scaffold1767	31527	TT	AA	1947019733
SNP_P4_167297_31542	NW_004516880.1	Scaffold1767	31542	AA	CC	1947019735
SNP_P4_167298_31553	NW_004516880.1	Scaffold1767	31553	CC	TT	1947019737
SNP_P4_167299_32310	NW_004516880.1	Scaffold1767	32310	AA	TT	1947019739
SNP_P4_167300_41843	NW_004516880.1	Scaffold1767	41843	CC	TT	1947019742
SNP_P4_167301_316	NW_004516881.1	Scaffold1768	316	GG	TT	1947019744
SNP_P4_167302_619	NW_004516881.1	Scaffold1768	619	CC	TT	1947019746
SNP_P4_167303_983	NW_004516881.1	Scaffold1768	983	AA	TT	1947019748
SNP_P4_167304_998	NW_004516881.1	Scaffold1768	998	CC	TT	1947019750
SNP_P4_167305_1393	NW_004516881.1	Scaffold1768	1393	GG	AA	1947019752
SNP_P4_167306_1467	NW_004516881.1	Scaffold1768	1467	CC	TT	1947019754
SNP_P4_167307_1548	NW_004516881.1	Scaffold1768	1548	AA	GG	1947019756
SNP_P4_167308_1752	NW_004516881.1	Scaffold1768	1752	TT	CC	1947019758
SNP_P4_167309_1873	NW_004516881.1	Scaffold1768	1873	GG	AA	1947019760
SNP_P4_167310_1894	NW_004516881.1	Scaffold1768	1894	TT	GG	1947019762
SNP_P4_167311_10217	NW_004516881.1	Scaffold1768	10217	AA	CC	1947019764
SNP_P4_167312_10517	NW_004516881.1	Scaffold1768	10517	AA	TT	1947019766
SNP_P4_167313_12690	NW_004516881.1	Scaffold1768	12690	AA	CC	1947019768
SNP_P4_167314_13017	NW_004516881.1	Scaffold1768	13017	TT	CC	1947019770
SNP_P4_167315_13018	NW_004516881.1	Scaffold1768	13018	TT	CC	1947019773
SNP_P4_167316_14238	NW_004516881.1	Scaffold1768	14238	TT	AA	1947019775
SNP_P4_167317_15493	NW_004516881.1	Scaffold1768	15493	AA	GG	1947019777
SNP_P4_167318_23660	NW_004516881.1	Scaffold1768	23660	GG	TT	1947019779
SNP_P4_167319_23676	NW_004516881.1	Scaffold1768	23676	AA	GG	1947019781
SNP_P4_167320_28343	NW_004516881.1	Scaffold1768	28343	TT	AA	1947019783
SNP_P4_167321_28384	NW_004516881.1	Scaffold1768	28384	TT	AA	1947019785
SNP_P4_167322_29427	NW_004516881.1	Scaffold1768	29427	TT	CC	1947019787
SNP_P4_167323_29747	NW_004516881.1	Scaffold1768	29747	AA	CC	1947019789

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_167325_29901	NW_004516881.1	Scaffold1768	29901	TT	CC	1947019791
SNP_P4_167326_38125	NW_004516881.1	Scaffold1768	38125	GG	AA	1947019792
SNP_P4_167327_38165	NW_004516881.1	Scaffold1768	38165	TT	AA	1947019794
SNP_P4_167328_3377	NW_004516882.1	Scaffold1769	3377	GG	AA	1947019796
SNP_P4_167329_3407	NW_004516882.1	Scaffold1769	3407	AA	GG	1947019798
SNP_P4_167330_3516	NW_004516882.1	Scaffold1769	3516	CC	TT	1947019800
SNP_P4_167331_3548	NW_004516882.1	Scaffold1769	3548	TT	GG	1947019802
SNP_P4_167332_3705	NW_004516882.1	Scaffold1769	3705	TT	AA	1947019804
SNP_P4_167333_3724	NW_004516882.1	Scaffold1769	3724	AA	TT	1947019806
SNP_P4_167334_3725	NW_004516882.1	Scaffold1769	3725	TT	GG	1947019808
SNP_P4_167335_4198	NW_004516882.1	Scaffold1769	4198	CC	GG	1947019810
SNP_P4_167336_4579	NW_004516884.1	Scaffold1771	4579	GG	TT	1947019812
SNP_P4_167337_5641	NW_004516884.1	Scaffold1771	5641	AA	CC	1947019814
SNP_P4_167338_5656	NW_004516884.1	Scaffold1771	5656	TT	CC	1947019816
SNP_P4_167339_5669	NW_004516884.1	Scaffold1771	5669	TT	CC	1947019818
SNP_P4_167340_5703	NW_004516884.1	Scaffold1771	5703	GG	AA	1947019820
SNP_P4_167341_5740	NW_004516884.1	Scaffold1771	5740	TT	GG	1947019822
SNP_P4_167342_5838	NW_004516884.1	Scaffold1771	5838	GG	TT	1947019824
SNP_P4_167343_5878	NW_004516884.1	Scaffold1771	5878	GG	AA	1947019826
SNP_P4_167344_5886	NW_004516884.1	Scaffold1771	5886	TT	CC	1947019828
SNP_P4_167345_5896	NW_004516884.1	Scaffold1771	5896	TT	CC	1947019830
SNP_P4_167346_5905	NW_004516884.1	Scaffold1771	5905	GG	AA	1947019832
SNP_P4_167347_5914	NW_004516884.1	Scaffold1771	5914	GG	CC	1947019834
SNP_P4_167348_5916	NW_004516884.1	Scaffold1771	5916	GG	AA	1947019836
SNP_P4_167349_5923	NW_004516884.1	Scaffold1771	5923	CC	TT	1947019838
SNP_P4_167350_5932	NW_004516884.1	Scaffold1771	5932	CC	TT	1947019840
SNP_P4_167351_5941	NW_004516884.1	Scaffold1771	5941	TT	CC	1947019842
SNP_P4_167352_5953	NW_004516884.1	Scaffold1771	5953	TT	CC	1947019844
SNP_P4_167353_5954	NW_004516884.1	Scaffold1771	5954	AA	GG	1947019846
SNP_P4_167354_5965	NW_004516884.1	Scaffold1771	5965	TT	CC	1947019848
SNP_P4_167355_6860	NW_004516884.1	Scaffold1771	6860	AA	GG	1947019850
SNP_P4_167356_6894	NW_004516884.1	Scaffold1771	6894	CC	TT	1947019853
SNP_P4_167357_6902	NW_004516884.1	Scaffold1771	6902	CC	AA	1947019855
SNP_P4_167358_7083	NW_004516884.1	Scaffold1771	7083	TT	CC	1947019857
SNP_P4_167359_7084	NW_004516884.1	Scaffold1771	7084	AA	GG	1947019859
SNP_P4_167360_7104	NW_004516884.1	Scaffold1771	7104	GG	TT	1947019861
SNP_P4_167361_7200	NW_004516884.1	Scaffold1771	7200	TT	CC	1947019863
SNP_P4_167362_7236	NW_004516884.1	Scaffold1771	7236	GG	AA	1947019865
SNP_P4_167363_7244	NW_004516884.1	Scaffold1771	7244	CC	TT	1947019867
SNP_P4_167364_7262	NW_004516884.1	Scaffold1771	7262	TT	AA	1947019870
SNP_P4_167365_7455	NW_004516884.1	Scaffold1771	7455	CC	TT	1947019872

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_167367_11187	NW_004516884.1	Scaffold1771	11187	CC	GG	1947019876
SNP_P4_167368_16378	NW_004516884.1	Scaffold1771	16378	GG	AA	1947019878
SNP_P4_167369_59075	NW_004516884.1	Scaffold1771	59075	CC	TT	1947019880
SNP_P4_167370_73803	NW_004516884.1	Scaffold1771	73803	AA	CC	1947019882
SNP_P4_167371_83491	NW_004516884.1	Scaffold1771	83491	AA	GG	1947019884
SNP_P4_167372_83811	NW_004516884.1	Scaffold1771	83811	TT	CC	1947019886
SNP_P4_167374_119287	NW_004516884.1	Scaffold1771	119287	AA	GG	1947019888
SNP_P4_167376_119660	NW_004516884.1	Scaffold1771	119660	CC	TT	1947019890
SNP_P4_167377_129091	NW_004516884.1	Scaffold1771	129091	AA	TT	1947019892
SNP_P4_167378_847	NW_004516886.1	Scaffold1773	847	TT	AA	1947019894
SNP_P4_167379_2403	NW_004516886.1	Scaffold1773	2403	CC	AA	1947019896
SNP_P4_167380_2942	NW_004516886.1	Scaffold1773	2942	CC	TT	1947019898
SNP_P4_167381_3311	NW_004516886.1	Scaffold1773	3311	TT	GG	1947019900
SNP_P4_167382_4498	NW_004516886.1	Scaffold1773	4498	TT	CC	1947019902
SNP_P4_167384_5390	NW_004516886.1	Scaffold1773	5390	GG	TT	1947019904
SNP_P4_167385_6917	NW_004516886.1	Scaffold1773	6917	AA	GG	1947019906
SNP_P4_167386_8102	NW_004516886.1	Scaffold1773	8102	AA	TT	1947019908
SNP_P4_167387_8644	NW_004516886.1	Scaffold1773	8644	AA	GG	1947019910
SNP_P4_167388_8739	NW_004516886.1	Scaffold1773	8739	AA	GG	1947019912
SNP_P4_167389_8746	NW_004516886.1	Scaffold1773	8746	AA	TT	1947019914
SNP_P4_167390_8762	NW_004516886.1	Scaffold1773	8762	AA	TT	1947019916
SNP_P4_167391_8778	NW_004516886.1	Scaffold1773	8778	AA	GG	1947019918
SNP_P4_167392_8779	NW_004516886.1	Scaffold1773	8779	AA	GG	1947019920
SNP_P4_167393_8782	NW_004516886.1	Scaffold1773	8782	GG	AA	1947019922
SNP_P4_167394_9108	NW_004516886.1	Scaffold1773	9108	AA	TT	1947019924
SNP_P4_167395_9876	NW_004516886.1	Scaffold1773	9876	TT	AA	1947019926
SNP_P4_167396_9932	NW_004516886.1	Scaffold1773	9932	GG	AA	1947019928
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SNP_P4_167398_10257	NW_004516886.1	Scaffold1773	10257	AA	TT	1947019932
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SNP_P4_167401_10821	NW_004516886.1	Scaffold1773	10821	CC	TT	1947019938
SNP_P4_167402_10831	NW_004516886.1	Scaffold1773	10831	CC	AA	1947019940
SNP_P4_167403_11740	NW_004516886.1	Scaffold1773	11740	CC	TT	1947019942
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SNP_P4_167406_13315	NW_004516886.1	Scaffold1773	13315	GG	TT	1947019949
SNP_P4_167408_14182	NW_004516886.1	Scaffold1773	14182	GG	AA	1947019951
SNP_P4_167409_15671	NW_004516886.1	Scaffold1773	15671	CC	TT	1947019953
SNP_P4_167410_15718	NW_004516886.1	Scaffold1773	15718	TT	AA	1947019955
SNP_P4_167411_15880	NW_004516886.1	Scaffold1773	15880	GG	CC	1947019957

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_167413_16001	NW_004516886.1	Scaffold1773	16001	AA	TT	1947019962
SNP_P4_167414_16043	NW_004516886.1	Scaffold1773	16043	AA	TT	1947019964
SNP_P4_167415_16224	NW_004516886.1	Scaffold1773	16224	GG	TT	1947019966
SNP_P4_167416_16309	NW_004516886.1	Scaffold1773	16309	GG	AA	1947019968
SNP_P4_167417_16316	NW_004516886.1	Scaffold1773	16316	AA	TT	1947019970
SNP_P4_167418_16390	NW_004516886.1	Scaffold1773	16390	AA	GG	1947019972
SNP_P4_167419_16537	NW_004516886.1	Scaffold1773	16537	TT	CC	1947019974
SNP_P4_167420_17822	NW_004516886.1	Scaffold1773	17822	GG	AA	1947019976
SNP_P4_167421_18124	NW_004516886.1	Scaffold1773	18124	AA	TT	1947019978
SNP_P4_167422_19359	NW_004516886.1	Scaffold1773	19359	TT	AA	1947019980
SNP_P4_167423_19827	NW_004516886.1	Scaffold1773	19827	CC	TT	1947019982
SNP_P4_167424_20676	NW_004516886.1	Scaffold1773	20676	AA	TT	1947019984
SNP_P4_167425_20684	NW_004516886.1	Scaffold1773	20684	GG	TT	1947019986
SNP_P4_167426_21568	NW_004516886.1	Scaffold1773	21568	TT	CC	1947019988
SNP_P4_167427_21625	NW_004516886.1	Scaffold1773	21625	AA	GG	1947019990
SNP_P4_167428_21688	NW_004516886.1	Scaffold1773	21688	AA	GG	1947019992
SNP_P4_167429_21689	NW_004516886.1	Scaffold1773	21689	GG	AA	1947019994
SNP_P4_167430_25736	NW_004516886.1	Scaffold1773	25736	CC	TT	1947019996
SNP_P4_167431_25745	NW_004516886.1	Scaffold1773	25745	AA	GG	1947019998
SNP_P4_167432_25751	NW_004516886.1	Scaffold1773	25751	TT	CC	1947020000
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SNP_P4_167434_26029	NW_004516886.1	Scaffold1773	26029	AA	GG	1947020004
SNP_P4_167435_26089	NW_004516886.1	Scaffold1773	26089	AA	GG	1947020006
SNP_P4_167436_26094	NW_004516886.1	Scaffold1773	26094	AA	GG	1947020008
SNP_P4_167437_26107	NW_004516886.1	Scaffold1773	26107	CC	AA	1947020010
SNP_P4_167438_28407	NW_004516886.1	Scaffold1773	28407	CC	TT	1947020012
SNP_P4_167439_28769	NW_004516886.1	Scaffold1773	28769	CC	AA	1947020014
SNP_P4_167440_29444	NW_004516886.1	Scaffold1773	29444	CC	AA	1947020016
SNP_P4_167441_29455	NW_004516886.1	Scaffold1773	29455	AA	TT	1947020018
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SNP_P4_167443_29468	NW_004516886.1	Scaffold1773	29468	TT	CC	1947020022
SNP_P4_167444_30421	NW_004516886.1	Scaffold1773	30421	CC	TT	1947020024
SNP_P4_167445_30734	NW_004516886.1	Scaffold1773	30734	TT	AA	1947020026
SNP_P4_167446_30766	NW_004516886.1	Scaffold1773	30766	AA	TT	1947020028
SNP_P4_167447_31139	NW_004516886.1	Scaffold1773	31139	AA	GG	1947020030
SNP_P4_167448_32328	NW_004516886.1	Scaffold1773	32328	GG	AA	1947020032
SNP_P4_167449_32977	NW_004516886.1	Scaffold1773	32977	CC	TT	1947020034
SNP_P4_167450_33955	NW_004516886.1	Scaffold1773	33955	AA	TT	1947020036
SNP_P4_167451_34487	NW_004516886.1	Scaffold1773	34487	GG	AA	1947020038
SNP_P4_167452_35303	NW_004516886.1	Scaffold1773	35303	CC	TT	1947020040
SNP_P4_167453_35543	NW_004516886.1	Scaffold1773	35543	GG	AA	1947020042

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_167454_35674	NW_004516886.1	Scaffold1773	35674	TT	CC	1947020044
SNP_P4_167455_49140	NW_004516886.1	Scaffold1773	49140	CC	AA	1947020046
SNP_P4_167456_6197	NW_004516888.1	Scaffold1776	6197	CC	TT	1947020048
SNP_P4_167457_14351	NW_004516888.1	Scaffold1776	14351	AA	GG	1947020050
SNP_P4_167458_14466	NW_004516888.1	Scaffold1776	14466	CC	TT	1947020052
SNP_P4_167459_14474	NW_004516888.1	Scaffold1776	14474	AA	CC	1947020054
SNP_P4_167460_14691	NW_004516888.1	Scaffold1776	14691	TT	AA	1947020056
SNP_P4_167461_14741	NW_004516888.1	Scaffold1776	14741	CC	TT	1947020058
SNP_P4_167462_14749	NW_004516888.1	Scaffold1776	14749	AA	GG	1947020060
SNP_P4_167463_14827	NW_004516888.1	Scaffold1776	14827	TT	CC	1947020062
SNP_P4_167464_16309	NW_004516888.1	Scaffold1776	16309	AA	GG	1947020064
SNP_P4_167465_16317	NW_004516888.1	Scaffold1776	16317	TT	CC	1947020066
SNP_P4_167466_16544	NW_004516888.1	Scaffold1776	16544	TT	CC	1947020068
SNP_P4_167467_16553	NW_004516888.1	Scaffold1776	16553	TT	AA	1947020070
SNP_P4_167468_23550	NW_004516888.1	Scaffold1776	23550	TT	AA	1947020073
SNP_P4_167470_23569	NW_004516888.1	Scaffold1776	23569	AA	GG	1947020075
SNP_P4_167471_23855	NW_004516888.1	Scaffold1776	23855	GG	CC	1947020077
SNP_P4_167472_25004	NW_004516888.1	Scaffold1776	25004	AA	TT	1947020079
SNP_P4_167473_25466	NW_004516888.1	Scaffold1776	25466	AA	TT	1947020080
SNP_P4_167474_26059	NW_004516888.1	Scaffold1776	26059	TT	AA	1947020082
SNP_P4_167475_26660	NW_004516888.1	Scaffold1776	26660	AA	TT	1947020084
SNP_P4_167476_27495	NW_004516888.1	Scaffold1776	27495	TT	AA	1947020086
SNP_P4_167477_27684	NW_004516888.1	Scaffold1776	27684	GG	TT	1947020088
SNP_P4_167478_27688	NW_004516888.1	Scaffold1776	27688	CC	TT	1947020090
SNP_P4_167479_27788	NW_004516888.1	Scaffold1776	27788	CC	TT	1947020092
SNP_P4_167480_28293	NW_004516888.1	Scaffold1776	28293	AA	GG	1947020094
SNP_P4_167481_29289	NW_004516888.1	Scaffold1776	29289	AA	GG	1947020096
SNP_P4_167482_29290	NW_004516888.1	Scaffold1776	29290	AA	GG	1947020098
SNP_P4_167483_29291	NW_004516888.1	Scaffold1776	29291	AA	GG	1947020100
SNP_P4_167484_36226	NW_004516888.1	Scaffold1776	36226	TT	GG	1947020102
SNP_P4_167485_37474	NW_004516888.1	Scaffold1776	37474	CC	TT	1947020104
SNP_P4_167486_22451	NW_004516889.1	Scaffold1777	22451	GG	AA	1947020106
SNP_P4_167487_22626	NW_004516889.1	Scaffold1777	22626	AA	GG	1947020109
SNP_P4_167488_22691	NW_004516889.1	Scaffold1777	22691	AA	GG	1947020111
SNP_P4_167489_22809	NW_004516889.1	Scaffold1777	22809	AA	GG	1947020113
SNP_P4_167490_22844	NW_004516889.1	Scaffold1777	22844	TT	CC	1947020115
SNP_P4_167491_22857	NW_004516889.1	Scaffold1777	22857	TT	CC	1947020117
SNP_P4_167492_22873	NW_004516889.1	Scaffold1777	22873	GG	CC	1947020119
SNP_P4_167493_28098	NW_004516889.1	Scaffold1777	28098	TT	GG	1947020121
SNP_P4_167494_65522	NW_004516889.1	Scaffold1777	65522	AA	CC	1947020123
SNP_P4_167495_65528	NW_004516889.1	Scaffold1777	65528	CC	AA	1947020125
SNP_P4_167497_70396	NW_004516889.1	Scaffold1777	70396	CC	TT	1947020127

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_167498_103874	NW_004516889.1	Scaffold1777	103874	TT	CC	1947020129
SNP_P4_167499_104197	NW_004516889.1	Scaffold1777	104197	GG	AA	1947020131
SNP_P4_167500_104242	NW_004516889.1	Scaffold1777	104242	CC	TT	1947020133
SNP_P4_167501_104295	NW_004516889.1	Scaffold1777	104295	CC	TT	1947020135
SNP_P4_167502_104871	NW_004516889.1	Scaffold1777	104871	AA	CC	1947020137
SNP_P4_167504_112362	NW_004516889.1	Scaffold1777	112362	GG	AA	1947020139
SNP_P4_167505_113313	NW_004516889.1	Scaffold1777	113313	TT	CC	1947020141
SNP_P4_167506_114276	NW_004516889.1	Scaffold1777	114276	TT	CC	1947020143
SNP_P4_167507_114287	NW_004516889.1	Scaffold1777	114287	TT	CC	1947020145
SNP_P4_167508_114314	NW_004516889.1	Scaffold1777	114314	CC	GG	1947020147
SNP_P4_167510_162355	NW_004516889.1	Scaffold1777	162355	CC	AA	1947020149
SNP_P4_167511_182099	NW_004516889.1	Scaffold1777	182099	GG	TT	1947020151
SNP_P4_167512_229267	NW_004516889.1	Scaffold1777	229267	CC	GG	1947020153
SNP_P4_167513_234012	NW_004516889.1	Scaffold1777	234012	AA	GG	1947020155
SNP_P4_167514_247025	NW_004516889.1	Scaffold1777	247025	GG	TT	1947020157
SNP_P4_167515_267697	NW_004516889.1	Scaffold1777	267697	GG	TT	1947020159
SNP_P4_167516_273224	NW_004516889.1	Scaffold1777	273224	AA	GG	1947020161
SNP_P4_167517_273621	NW_004516889.1	Scaffold1777	273621	GG	AA	1947020163
SNP_P4_167518_273868	NW_004516889.1	Scaffold1777	273868	TT	CC	1947020165
SNP_P4_167519_302692	NW_004516889.1	Scaffold1777	302692	CC	TT	1947020167
SNP_P4_167520_340032	NW_004516889.1	Scaffold1777	340032	CC	TT	1947020169
SNP_P4_167521_340038	NW_004516889.1	Scaffold1777	340038	CC	TT	1947020171
SNP_P4_167522_340048	NW_004516889.1	Scaffold1777	340048	TT	CC	1947020173
SNP_P4_167523_340054	NW_004516889.1	Scaffold1777	340054	TT	GG	1947020175
SNP_P4_167524_340440	NW_004516889.1	Scaffold1777	340440	CC	AA	1947020177
SNP_P4_167525_342440	NW_004516889.1	Scaffold1777	342440	GG	AA	1947020179
SNP_P4_167526_343026	NW_004516889.1	Scaffold1777	343026	AA	GG	1947020181
SNP_P4_167527_343116	NW_004516889.1	Scaffold1777	343116	CC	TT	1947020183
SNP_P4_167528_343140	NW_004516889.1	Scaffold1777	343140	TT	CC	1947020185
SNP_P4_167529_343164	NW_004516889.1	Scaffold1777	343164	CC	TT	1947020187
SNP_P4_167530_343173	NW_004516889.1	Scaffold1777	343173	CC	TT	1947020189
SNP_P4_167531_343185	NW_004516889.1	Scaffold1777	343185	GG	AA	1947020191
SNP_P4_167532_343228	NW_004516889.1	Scaffold1777	343228	TT	CC	1947020193
SNP_P4_167533_343253	NW_004516889.1	Scaffold1777	343253	AA	GG	1947020195
SNP_P4_167534_343330	NW_004516889.1	Scaffold1777	343330	AA	CC	1947020196
SNP_P4_167535_343381	NW_004516889.1	Scaffold1777	343381	CC	TT	1947020197
SNP_P4_167536_343417	NW_004516889.1	Scaffold1777	343417	TT	CC	1947020198
SNP_P4_167537_343462	NW_004516889.1	Scaffold1777	343462	AA	GG	1947020200
SNP_P4_167538_343466	NW_004516889.1	Scaffold1777	343466	TT	CC	1947020202
SNP_P4_167539_343484	NW_004516889.1	Scaffold1777	343484	TT	AA	1947020204
SNP_P4_167540_343489	NW_004516889.1	Scaffold1777	343489	TT	CC	1947020206
SNP_P4_167541_343513	NW_004516889.1	Scaffold1777	343513	GG	TT	1947020208

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_167543_343525	NW_004516889.1	Scaffold1777	343525	TT	CC	1947020212
SNP_P4_167544_343537	NW_004516889.1	Scaffold1777	343537	GG	AA	1947020214
SNP_P4_167545_345392	NW_004516889.1	Scaffold1777	345392	TT	CC	1947020216
SNP_P4_167546_356814	NW_004516889.1	Scaffold1777	356814	TT	CC	1947020218
SNP_P4_167547_372085	NW_004516889.1	Scaffold1777	372085	CC	GG	1947020220
SNP_P4_167550_447175	NW_004516889.1	Scaffold1777	447175	CC	GG	1947020222
SNP_P4_167551_447199	NW_004516889.1	Scaffold1777	447199	TT	AA	1947020224
SNP_P4_167552_447384	NW_004516889.1	Scaffold1777	447384	TT	CC	1947020226
SNP_P4_167553_492134	NW_004516889.1	Scaffold1777	492134	TT	CC	1947020228
SNP_P4_167554_492136	NW_004516889.1	Scaffold1777	492136	GG	AA	1947020230
SNP_P4_167555_492309	NW_004516889.1	Scaffold1777	492309	AA	GG	1947020232
SNP_P4_167556_492339	NW_004516889.1	Scaffold1777	492339	TT	CC	1947020234
SNP_P4_167557_492382	NW_004516889.1	Scaffold1777	492382	GG	CC	1947020236
SNP_P4_167558_518894	NW_004516889.1	Scaffold1777	518894	AA	GG	1947020238
SNP_P4_167559_518940	NW_004516889.1	Scaffold1777	518940	TT	CC	1947020240
SNP_P4_167560_518948	NW_004516889.1	Scaffold1777	518948	AA	GG	1947020242
SNP_P4_167561_518955	NW_004516889.1	Scaffold1777	518955	TT	CC	1947020244
SNP_P4_167562_518970	NW_004516889.1	Scaffold1777	518970	AA	GG	1947020246
SNP_P4_167563_519038	NW_004516889.1	Scaffold1777	519038	TT	CC	1947020248
SNP_P4_167564_519045	NW_004516889.1	Scaffold1777	519045	TT	CC	1947020250
SNP_P4_167566_519476	NW_004516889.1	Scaffold1777	519476	TT	CC	1947020252
SNP_P4_167569_539805	NW_004516889.1	Scaffold1777	539805	TT	CC	1947020254
SNP_P4_167570_567365	NW_004516889.1	Scaffold1777	567365	GG	AA	1947020256
SNP_P4_167571_567453	NW_004516889.1	Scaffold1777	567453	GG	TT	1947020258
SNP_P4_167572_567465	NW_004516889.1	Scaffold1777	567465	CC	TT	1947020260
SNP_P4_167573_567468	NW_004516889.1	Scaffold1777	567468	AA	GG	1947020262
SNP_P4_167575_590283	NW_004516889.1	Scaffold1777	590283	TT	CC	1947020264
SNP_P4_167576_613663	NW_004516889.1	Scaffold1777	613663	GG	AA	1947020266
SNP_P4_167577_613665	NW_004516889.1	Scaffold1777	613665	AA	GG	1947020268
SNP_P4_167578_613731	NW_004516889.1	Scaffold1777	613731	AA	GG	1947020270
SNP_P4_167579_613787	NW_004516889.1	Scaffold1777	613787	GG	AA	1947020272
SNP_P4_167580_613810	NW_004516889.1	Scaffold1777	613810	TT	CC	1947020274
SNP_P4_167581_613859	NW_004516889.1	Scaffold1777	613859	CC	GG	1947020276
SNP_P4_167582_613879	NW_004516889.1	Scaffold1777	613879	GG	AA	1947020278
SNP_P4_167583_613963	NW_004516889.1	Scaffold1777	613963	CC	GG	1947020280
SNP_P4_167584_614044	NW_004516889.1	Scaffold1777	614044	TT	CC	1947020282
SNP_P4_167585_614064	NW_004516889.1	Scaffold1777	614064	AA	GG	1947020284
SNP_P4_167586_614145	NW_004516889.1	Scaffold1777	614145	TT	AA	1947020286
SNP_P4_167587_614402	NW_004516889.1	Scaffold1777	614402	AA	GG	1947020288
SNP_P4_167588_614469	NW_004516889.1	Scaffold1777	614469	CC	AA	1947020290
SNP_P4_167589_614511	NW_004516889.1	Scaffold1777	614511	GG	AA	1947020292

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_167591_614649	NW_004516889.1	Scaffold1777	614649	CC	AA	1947020296
SNP_P4_167592_614684	NW_004516889.1	Scaffold1777	614684	CC	TT	1947020298
SNP_P4_167593_614699	NW_004516889.1	Scaffold1777	614699	TT	GG	1947020300
SNP_P4_167594_614717	NW_004516889.1	Scaffold1777	614717	CC	TT	1947020302
SNP_P4_167595_614788	NW_004516889.1	Scaffold1777	614788	AA	TT	1947020304
SNP_P4_167596_617288	NW_004516889.1	Scaffold1777	617288	CC	TT	1947020306
SNP_P4_167597_617728	NW_004516889.1	Scaffold1777	617728	GG	AA	1947020308
SNP_P4_167598_623708	NW_004516889.1	Scaffold1777	623708	CC	AA	1947020310
SNP_P4_167599_623744	NW_004516889.1	Scaffold1777	623744	CC	AA	1947020312
SNP_P4_167600_623763	NW_004516889.1	Scaffold1777	623763	GG	AA	1947020314
SNP_P4_167601_623808	NW_004516889.1	Scaffold1777	623808	TT	CC	1947020316
SNP_P4_167602_623848	NW_004516889.1	Scaffold1777	623848	GG	AA	1947020318
SNP_P4_167603_624028	NW_004516889.1	Scaffold1777	624028	GG	AA	1947020320
SNP_P4_167604_624353	NW_004516889.1	Scaffold1777	624353	AA	GG	1947020322
SNP_P4_167605_624370	NW_004516889.1	Scaffold1777	624370	TT	GG	1947020324
SNP_P4_167606_625389	NW_004516889.1	Scaffold1777	625389	GG	CC	1947020326
SNP_P4_167607_625409	NW_004516889.1	Scaffold1777	625409	AA	GG	1947020328
SNP_P4_167608_625595	NW_004516889.1	Scaffold1777	625595	CC	TT	1947020330
SNP_P4_167609_625648	NW_004516889.1	Scaffold1777	625648	AA	GG	1947020332
SNP_P4_167610_625735	NW_004516889.1	Scaffold1777	625735	AA	GG	1947020334
SNP_P4_167611_625749	NW_004516889.1	Scaffold1777	625749	GG	CC	1947020336
SNP_P4_167612_625765	NW_004516889.1	Scaffold1777	625765	GG	TT	1947020338
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SNP_P4_167614_626517	NW_004516889.1	Scaffold1777	626517	CC	AA	1947020342
SNP_P4_167615_626782	NW_004516889.1	Scaffold1777	626782	TT	CC	1947020344
SNP_P4_167616_626817	NW_004516889.1	Scaffold1777	626817	AA	TT	1947020346
SNP_P4_167617_626838	NW_004516889.1	Scaffold1777	626838	AA	GG	1947020348
SNP_P4_167618_628203	NW_004516889.1	Scaffold1777	628203	CC	TT	1947020350
SNP_P4_167619_628264	NW_004516889.1	Scaffold1777	628264	TT	CC	1947020352
SNP_P4_167620_628295	NW_004516889.1	Scaffold1777	628295	TT	CC	1947020354
SNP_P4_167621_628406	NW_004516889.1	Scaffold1777	628406	GG	AA	1947020356
SNP_P4_167622_628448	NW_004516889.1	Scaffold1777	628448	AA	GG	1947020358
SNP_P4_167623_628509	NW_004516889.1	Scaffold1777	628509	AA	GG	1947020360
SNP_P4_167624_628540	NW_004516889.1	Scaffold1777	628540	CC	AA	1947020362
SNP_P4_167625_628629	NW_004516889.1	Scaffold1777	628629	AA	GG	1947020364
SNP_P4_167626_628679	NW_004516889.1	Scaffold1777	628679	TT	CC	1947020366
SNP_P4_167627_628701	NW_004516889.1	Scaffold1777	628701	AA	CC	1947020368
SNP_P4_167628_629227	NW_004516889.1	Scaffold1777	629227	GG	CC	1947020370
SNP_P4_167629_629451	NW_004516889.1	Scaffold1777	629451	TT	CC	1947020372
SNP_P4_167630_629487	NW_004516889.1	Scaffold1777	629487	CC	TT	1947020374
SNP_P4_167631_632271	NW_004516889.1	Scaffold1777	632271	GG	AA	1947020376

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_167633_632529	NW_004516889.1	Scaffold1777	632529	TT	CC	1947020380
SNP_P4_167634_632545	NW_004516889.1	Scaffold1777	632545	GG	AA	1947020382
SNP_P4_167635_636001	NW_004516889.1	Scaffold1777	636001	TT	CC	1947020384
SNP_P4_167636_636343	NW_004516889.1	Scaffold1777	636343	TT	AA	1947020386
SNP_P4_167637_636598	NW_004516889.1	Scaffold1777	636598	TT	AA	1947020388
SNP_P4_167638_205	NW_004516890.1	Scaffold1778	205	AA	CC	1947020390
SNP_P4_167639_414	NW_004516890.1	Scaffold1778	414	GG	CC	1947020392
SNP_P4_167640_852	NW_004516890.1	Scaffold1778	852	TT	AA	1947020394
SNP_P4_167641_915	NW_004516890.1	Scaffold1778	915	AA	GG	1947020396
SNP_P4_167642_925	NW_004516890.1	Scaffold1778	925	TT	CC	1947020398
SNP_P4_167643_982	NW_004516890.1	Scaffold1778	982	GG	AA	1947020400
SNP_P4_167644_1114	NW_004516890.1	Scaffold1778	1114	GG	TT	1947020402
SNP_P4_167645_1214	NW_004516890.1	Scaffold1778	1214	CC	GG	1947020404
SNP_P4_167646_1218	NW_004516890.1	Scaffold1778	1218	AA	CC	1947020406
SNP_P4_167647_1223	NW_004516890.1	Scaffold1778	1223	TT	GG	1947020408
SNP_P4_167649_1489	NW_004516890.1	Scaffold1778	1489	CC	TT	1947020410
SNP_P4_167650_1527	NW_004516890.1	Scaffold1778	1527	AA	CC	1947020412
SNP_P4_167651_1651	NW_004516890.1	Scaffold1778	1651	CC	TT	1947020414
SNP_P4_167652_1918	NW_004516890.1	Scaffold1778	1918	AA	GG	1947020416
SNP_P4_167653_1973	NW_004516890.1	Scaffold1778	1973	TT	GG	1947020418
SNP_P4_167654_1980	NW_004516890.1	Scaffold1778	1980	CC	TT	1947020420
SNP_P4_167655_2039	NW_004516890.1	Scaffold1778	2039	CC	TT	1947020422
SNP_P4_167656_2044	NW_004516890.1	Scaffold1778	2044	TT	AA	1947020424
SNP_P4_167657_4064	NW_004516890.1	Scaffold1778	4064	CC	TT	1947020426
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SNP_P4_167659_4156	NW_004516890.1	Scaffold1778	4156	GG	AA	1947020430
SNP_P4_167660_4177	NW_004516890.1	Scaffold1778	4177	TT	GG	1947020432
SNP_P4_167661_4184	NW_004516890.1	Scaffold1778	4184	GG	AA	1947020434
SNP_P4_167662_4197	NW_004516890.1	Scaffold1778	4197	CC	TT	1947020436
SNP_P4_167663_4444	NW_004516890.1	Scaffold1778	4444	TT	GG	1947020438
SNP_P4_167664_4452	NW_004516890.1	Scaffold1778	4452	GG	TT	1947020440
SNP_P4_167665_4631	NW_004516890.1	Scaffold1778	4631	TT	AA	1947020442
SNP_P4_167666_4960	NW_004516890.1	Scaffold1778	4960	GG	AA	1947020444
SNP_P4_167667_4973	NW_004516890.1	Scaffold1778	4973	AA	GG	1947020446
SNP_P4_167668_5011	NW_004516890.1	Scaffold1778	5011	AA	GG	1947020448
SNP_P4_167669_10419	NW_004516890.1	Scaffold1778	10419	TT	AA	1947020451
SNP_P4_167670_15221	NW_004516890.1	Scaffold1778	15221	GG	AA	1947020453
SNP_P4_167671_15263	NW_004516890.1	Scaffold1778	15263	AA	TT	1947020455
SNP_P4_167672_15806	NW_004516890.1	Scaffold1778	15806	TT	AA	1947020457
SNP_P4_167673_15832	NW_004516890.1	Scaffold1778	15832	AA	GG	1947020459
SNP_P4_167674_15882	NW_004516890.1	Scaffold1778	15882	AA	TT	1947020461

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_167675_15959	NW_004516890.1	Scaffold1778	15959	GG	AA	1947020463
SNP_P4_167676_16103	NW_004516890.1	Scaffold1778	16103	CC	TT	1947020465
SNP_P4_167677_16113	NW_004516890.1	Scaffold1778	16113	TT	CC	1947020467
SNP_P4_167678_16129	NW_004516890.1	Scaffold1778	16129	CC	GG	1947020469
SNP_P4_167679_16171	NW_004516890.1	Scaffold1778	16171	AA	GG	1947020471
SNP_P4_167680_16240	NW_004516890.1	Scaffold1778	16240	TT	CC	1947020473
SNP_P4_167681_16241	NW_004516890.1	Scaffold1778	16241	TT	GG	1947020475
SNP_P4_167682_16282	NW_004516890.1	Scaffold1778	16282	CC	AA	1947020477
SNP_P4_167683_16286	NW_004516890.1	Scaffold1778	16286	AA	GG	1947020479
SNP_P4_167684_16312	NW_004516890.1	Scaffold1778	16312	TT	CC	1947020481
SNP_P4_167685_16340	NW_004516890.1	Scaffold1778	16340	CC	TT	1947020483
SNP_P4_167686_16476	NW_004516890.1	Scaffold1778	16476	GG	AA	1947020485
SNP_P4_167687_16489	NW_004516890.1	Scaffold1778	16489	CC	TT	1947020487
SNP_P4_167688_16601	NW_004516890.1	Scaffold1778	16601	AA	GG	1947020489
SNP_P4_167689_16645	NW_004516890.1	Scaffold1778	16645	TT	AA	1947020491
SNP_P4_167690_16648	NW_004516890.1	Scaffold1778	16648	TT	GG	1947020493
SNP_P4_167691_16716	NW_004516890.1	Scaffold1778	16716	CC	TT	1947020495
SNP_P4_167692_16776	NW_004516890.1	Scaffold1778	16776	TT	CC	1947020497
SNP_P4_167693_16858	NW_004516890.1	Scaffold1778	16858	CC	GG	1947020499
SNP_P4_167694_16869	NW_004516890.1	Scaffold1778	16869	GG	AA	1947020501
SNP_P4_167695_16915	NW_004516890.1	Scaffold1778	16915	TT	CC	1947020503
SNP_P4_167696_16931	NW_004516890.1	Scaffold1778	16931	AA	GG	1947020505
SNP_P4_167697_16974	NW_004516890.1	Scaffold1778	16974	GG	TT	1947020507
SNP_P4_167698_8322	NW_004516891.1	Scaffold1779	8322	AA	CC	1947020509
SNP_P4_167699_8364	NW_004516891.1	Scaffold1779	8364	AA	CC	1947020511
SNP_P4_167700_8743	NW_004516891.1	Scaffold1779	8743	AA	GG	1947020513
SNP_P4_167701_9609	NW_004516891.1	Scaffold1779	9609	TT	CC	1947020515
SNP_P4_167702_11637	NW_004516891.1	Scaffold1779	11637	AA	TT	1947020517
SNP_P4_167703_11653	NW_004516891.1	Scaffold1779	11653	GG	AA	1947020519
SNP_P4_167704_11659	NW_004516891.1	Scaffold1779	11659	TT	GG	1947020521
SNP_P4_167705_11666	NW_004516891.1	Scaffold1779	11666	AA	GG	1947020523
SNP_P4_167706_11679	NW_004516891.1	Scaffold1779	11679	CC	GG	1947020525
SNP_P4_167707_40224	NW_004516891.1	Scaffold1779	40224	GG	AA	1947020527
SNP_P4_167708_72985	NW_004516891.1	Scaffold1779	72985	AA	GG	1947020529
SNP_P4_167709_118767	NW_004516891.1	Scaffold1779	118767	GG	AA	1947020531
SNP_P4_167710_119031	NW_004516891.1	Scaffold1779	119031	CC	TT	1947020533
SNP_P4_167711_119111	NW_004516891.1	Scaffold1779	119111	CC	TT	1947020535
SNP_P4_167712_119160	NW_004516891.1	Scaffold1779	119160	CC	AA	1947020537
SNP_P4_167713_119244	NW_004516891.1	Scaffold1779	119244	TT	CC	1947020539
SNP_P4_167714_119275	NW_004516891.1	Scaffold1779	119275	TT	AA	1947020541
SNP_P4_167715_119450	NW_004516891.1	Scaffold1779	119450	GG	TT	1947020543
SNP_P4_167716_119565	NW_004516891.1	Scaffold1779	119565	CC	TT	1947020545

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_167718_119694	NW_004516891.1	Scaffold1779	119694	AA	TT	1947020549
SNP_P4_167719_119822	NW_004516891.1	Scaffold1779	119822	AA	GG	1947020551
SNP_P4_167720_120026	NW_004516891.1	Scaffold1779	120026	CC	AA	1947020553
SNP_P4_167721_120035	NW_004516891.1	Scaffold1779	120035	AA	CC	1947020555
SNP_P4_167722_120129	NW_004516891.1	Scaffold1779	120129	CC	TT	1947020557
SNP_P4_167723_120171	NW_004516891.1	Scaffold1779	120171	AA	GG	1947020559
SNP_P4_167724_122089	NW_004516891.1	Scaffold1779	122089	AA	GG	1947020561
SNP_P4_167725_129700	NW_004516891.1	Scaffold1779	129700	GG	AA	1947020563
SNP_P4_167728_131559	NW_004516891.1	Scaffold1779	131559	TT	GG	1947020565
SNP_P4_167729_131566	NW_004516891.1	Scaffold1779	131566	CC	AA	1947020567
SNP_P4_167730_132015	NW_004516891.1	Scaffold1779	132015	TT	CC	1947020569
SNP_P4_167732_132441	NW_004516891.1	Scaffold1779	132441	AA	GG	1947020571
SNP_P4_167733_132965	NW_004516891.1	Scaffold1779	132965	GG	AA	1947020573
SNP_P4_167734_132999	NW_004516891.1	Scaffold1779	132999	GG	AA	1947020575
SNP_P4_167735_792	NW_004516892.1	Scaffold1780	792	AA	GG	1947020577
SNP_P4_167736_5678	NW_004516893.1	Scaffold1782	5678	GG	AA	1947020579
SNP_P4_167737_5693	NW_004516893.1	Scaffold1782	5693	AA	GG	1947020581
SNP_P4_167738_6072	NW_004516893.1	Scaffold1782	6072	AA	TT	1947020583
SNP_P4_167739_6121	NW_004516893.1	Scaffold1782	6121	GG	AA	1947020585
SNP_P4_167740_6171	NW_004516893.1	Scaffold1782	6171	TT	GG	1947020587
SNP_P4_167741_6208	NW_004516893.1	Scaffold1782	6208	AA	GG	1947020589
SNP_P4_167742_5042	NW_004516894.1	Scaffold1783	5042	AA	GG	1947020591
SNP_P4_167743_37671	NW_004516894.1	Scaffold1783	37671	GG	AA	1947020593
SNP_P4_167745_39925	NW_004516894.1	Scaffold1783	39925	TT	AA	1947020595
SNP_P4_167746_40203	NW_004516894.1	Scaffold1783	40203	AA	TT	1947020597
SNP_P4_167747_40251	NW_004516894.1	Scaffold1783	40251	AA	CC	1947020600
SNP_P4_167748_40269	NW_004516894.1	Scaffold1783	40269	TT	GG	1947020602
SNP_P4_167749_40291	NW_004516894.1	Scaffold1783	40291	GG	AA	1947020604
SNP_P4_167750_45378	NW_004516894.1	Scaffold1783	45378	AA	GG	1947020606
SNP_P4_167751_46057	NW_004516894.1	Scaffold1783	46057	TT	CC	1947020608
SNP_P4_167752_46060	NW_004516894.1	Scaffold1783	46060	AA	GG	1947020610
SNP_P4_167754_46336	NW_004516894.1	Scaffold1783	46336	AA	CC	1947020612
SNP_P4_167755_46642	NW_004516894.1	Scaffold1783	46642	AA	TT	1947020614
SNP_P4_167756_296	NW_004516897.1	Scaffold1789	296	GG	AA	1947020616
SNP_P4_167757_417	NW_004516897.1	Scaffold1789	417	AA	GG	1947020618
SNP_P4_167758_551	NW_004516897.1	Scaffold1789	551	GG	AA	1947020620
SNP_P4_167759_21088	NW_004516897.1	Scaffold1789	21088	TT	CC	1947020622
SNP_P4_167760_21349	NW_004516897.1	Scaffold1789	21349	AA	TT	1947020624
SNP_P4_167761_21364	NW_004516897.1	Scaffold1789	21364	GG	AA	1947020626
SNP_P4_167762_12342	NW_004516898.1	Scaffold1791	12342	CC	GG	1947020628
SNP_P4_167763_12351	NW_004516898.1	Scaffold1791	12351	GG	CC	1947020630

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_167765_12640	NW_004516898.1	Scaffold1791	12640	TT	CC	1947020634
SNP_P4_167766_12733	NW_004516898.1	Scaffold1791	12733	GG	TT	1947020636
SNP_P4_167768_188	NW_004516900.1	Scaffold1793	188	TT	AA	1947020638
SNP_P4_167769_408	NW_004516900.1	Scaffold1793	408	TT	AA	1947020640
SNP_P4_167770_2130	NW_004516901.1	Scaffold1795	2130	CC	TT	1947020642
SNP_P4_167771_2148	NW_004516901.1	Scaffold1795	2148	CC	TT	1947020644
SNP_P4_167773_5762	NW_004516901.1	Scaffold1795	5762	GG	AA	1947020646
SNP_P4_167774_5825	NW_004516901.1	Scaffold1795	5825	AA	GG	1947020648
SNP_P4_167775_2610	NW_004516903.1	Scaffold1797	2610	AA	GG	1947020650
SNP_P4_167776_16773	NW_004516903.1	Scaffold1797	16773	AA	CC	1947020652
SNP_P4_167777_16777	NW_004516903.1	Scaffold1797	16777	AA	TT	1947020654
SNP_P4_167778_16824	NW_004516903.1	Scaffold1797	16824	CC	AA	1947020656
SNP_P4_167780_34099	NW_004516903.1	Scaffold1797	34099	GG	AA	1947020658
SNP_P4_167781_37300	NW_004516903.1	Scaffold1797	37300	TT	AA	1947020660
SNP_P4_167782_37802	NW_004516903.1	Scaffold1797	37802	CC	TT	1947020662
SNP_P4_167783_37844	NW_004516903.1	Scaffold1797	37844	CC	AA	1947020664
SNP_P4_167784_1533	NW_004516904.1	Scaffold1798	1533	AA	TT	1947020666
SNP_P4_167785_1579	NW_004516904.1	Scaffold1798	1579	CC	TT	1947020668
SNP_P4_167786_1588	NW_004516904.1	Scaffold1798	1588	TT	AA	1947020670
SNP_P4_167788_1695	NW_004516904.1	Scaffold1798	1695	TT	CC	1947020672
SNP_P4_167790_1785	NW_004516904.1	Scaffold1798	1785	TT	CC	1947020674
SNP_P4_167791_8882	NW_004516905.1	Scaffold1799	8882	GG	AA	1947020676
SNP_P4_167792_3252	NW_004516907.1	Scaffold1802	3252	CC	TT	1947020678
SNP_P4_167793_3437	NW_004516907.1	Scaffold1802	3437	CC	AA	1947020680
SNP_P4_167794_3722	NW_004516907.1	Scaffold1802	3722	GG	AA	1947020682
SNP_P4_167795_3988	NW_004516907.1	Scaffold1802	3988	TT	CC	1947020684
SNP_P4_167796_15454	NW_004516907.1	Scaffold1802	15454	AA	GG	1947020686
SNP_P4_167797_15785	NW_004516907.1	Scaffold1802	15785	GG	AA	1947020688
SNP_P4_167798_15880	NW_004516907.1	Scaffold1802	15880	AA	GG	1947020690
SNP_P4_167799_15897	NW_004516907.1	Scaffold1802	15897	GG	AA	1947020692
SNP_P4_167800_17217	NW_004516907.1	Scaffold1802	17217	TT	GG	1947020694
SNP_P4_167801_18872	NW_004516907.1	Scaffold1802	18872	AA	CC	1947020696
SNP_P4_167802_18877	NW_004516907.1	Scaffold1802	18877	CC	TT	1947020698
SNP_P4_167803_18888	NW_004516907.1	Scaffold1802	18888	CC	TT	1947020700
SNP_P4_167804_18891	NW_004516907.1	Scaffold1802	18891	AA	GG	1947020702
SNP_P4_167805_18894	NW_004516907.1	Scaffold1802	18894	TT	CC	1947020704
SNP_P4_167806_44542	NW_004516909.1	Scaffold1804	44542	AA	CC	1947020706
SNP_P4_167808_82206	NW_004516909.1	Scaffold1804	82206	AA	GG	1947020708
SNP_P4_167809_92356	NW_004516909.1	Scaffold1804	92356	TT	GG	1947020710
SNP_P4_167810_97486	NW_004516909.1	Scaffold1804	97486	CC	GG	1947020712
SNP_P4_167811_97841	NW_004516909.1	Scaffold1804	97841	TT	CC	1947020714

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_167813_115939	NW_004516909.1	Scaffold1804	115939	AA	CC	1947020718
SNP_P4_167814_116307	NW_004516909.1	Scaffold1804	116307	CC	TT	1947020720
SNP_P4_167815_116347	NW_004516909.1	Scaffold1804	116347	TT	GG	1947020722
SNP_P4_167816_116392	NW_004516909.1	Scaffold1804	116392	CC	TT	1947020724
SNP_P4_167817_116409	NW_004516909.1	Scaffold1804	116409	GG	TT	1947020726
SNP_P4_167818_116440	NW_004516909.1	Scaffold1804	116440	AA	CC	1947020728
SNP_P4_167819_116444	NW_004516909.1	Scaffold1804	116444	GG	AA	1947020730
SNP_P4_167820_116463	NW_004516909.1	Scaffold1804	116463	AA	TT	1947020732
SNP_P4_167821_117236	NW_004516909.1	Scaffold1804	117236	TT	CC	1947020734
SNP_P4_167822_117240	NW_004516909.1	Scaffold1804	117240	AA	CC	1947020736
SNP_P4_167823_117269	NW_004516909.1	Scaffold1804	117269	AA	CC	1947020738
SNP_P4_167824_117624	NW_004516909.1	Scaffold1804	117624	AA	GG	1947020740
SNP_P4_167825_118885	NW_004516909.1	Scaffold1804	118885	GG	TT	1947020742
SNP_P4_167826_118909	NW_004516909.1	Scaffold1804	118909	AA	TT	1947020744
SNP_P4_167827_118951	NW_004516909.1	Scaffold1804	118951	GG	AA	1947020746
SNP_P4_167828_119124	NW_004516909.1	Scaffold1804	119124	CC	TT	1947020748
SNP_P4_167829_148809	NW_004516909.1	Scaffold1804	148809	TT	CC	1947020750
SNP_P4_167830_148811	NW_004516909.1	Scaffold1804	148811	GG	AA	1947020752
SNP_P4_167831_148889	NW_004516909.1	Scaffold1804	148889	GG	AA	1947020754
SNP_P4_167832_149154	NW_004516909.1	Scaffold1804	149154	TT	CC	1947020756
SNP_P4_167833_149172	NW_004516909.1	Scaffold1804	149172	CC	TT	1947020758
SNP_P4_167834_149175	NW_004516909.1	Scaffold1804	149175	CC	GG	1947020760
SNP_P4_167835_151681	NW_004516909.1	Scaffold1804	151681	TT	CC	1947020762
SNP_P4_167836_154855	NW_004516909.1	Scaffold1804	154855	GG	AA	1947020764
SNP_P4_167837_154876	NW_004516909.1	Scaffold1804	154876	CC	GG	1947020766
SNP_P4_167838_154877	NW_004516909.1	Scaffold1804	154877	TT	CC	1947020768
SNP_P4_167839_154914	NW_004516909.1	Scaffold1804	154914	TT	GG	1947020770
SNP_P4_167840_162544	NW_004516909.1	Scaffold1804	162544	TT	CC	1947020772
SNP_P4_167841_172533	NW_004516909.1	Scaffold1804	172533	CC	GG	1947020774
SNP_P4_167844_179381	NW_004516909.1	Scaffold1804	179381	CC	GG	1947020776
SNP_P4_167845_179399	NW_004516909.1	Scaffold1804	179399	AA	GG	1947020778
SNP_P4_167846_183818	NW_004516909.1	Scaffold1804	183818	CC	TT	1947020780
SNP_P4_167847_184121	NW_004516909.1	Scaffold1804	184121	CC	TT	1947020782
SNP_P4_167848_184131	NW_004516909.1	Scaffold1804	184131	TT	AA	1947020784
SNP_P4_167849_184143	NW_004516909.1	Scaffold1804	184143	AA	GG	1947020786
SNP_P4_167850_184160	NW_004516909.1	Scaffold1804	184160	CC	TT	1947020788
SNP_P4_167851_184229	NW_004516909.1	Scaffold1804	184229	GG	TT	1947020790
SNP_P4_167852_184335	NW_004516909.1	Scaffold1804	184335	TT	GG	1947020792
SNP_P4_167853_184480	NW_004516909.1	Scaffold1804	184480	TT	CC	1947020794
SNP_P4_167854_184667	NW_004516909.1	Scaffold1804	184667	GG	AA	1947020796
SNP_P4_167855_184706	NW_004516909.1	Scaffold1804	184706	AA	GG	1947020798

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_167857_184725	NW_004516909.1	Scaffold1804	184725	CC	GG	1947020802
SNP_P4_167858_184776	NW_004516909.1	Scaffold1804	184776	TT	CC	1947020804
SNP_P4_167859_184842	NW_004516909.1	Scaffold1804	184842	AA	TT	1947020806
SNP_P4_167860_188761	NW_004516909.1	Scaffold1804	188761	TT	AA	1947020808
SNP_P4_167861_188854	NW_004516909.1	Scaffold1804	188854	TT	CC	1947020810
SNP_P4_167862_190951	NW_004516909.1	Scaffold1804	190951	TT	AA	1947020812
SNP_P4_167863_190980	NW_004516909.1	Scaffold1804	190980	TT	AA	1947020814
SNP_P4_167865_191095	NW_004516909.1	Scaffold1804	191095	AA	GG	1947020816
SNP_P4_167866_191259	NW_004516909.1	Scaffold1804	191259	GG	CC	1947020818
SNP_P4_167867_191720	NW_004516909.1	Scaffold1804	191720	AA	GG	1947020820
SNP_P4_167868_191771	NW_004516909.1	Scaffold1804	191771	AA	CC	1947020822
SNP_P4_167869_191811	NW_004516909.1	Scaffold1804	191811	GG	AA	1947020824
SNP_P4_167870_192140	NW_004516909.1	Scaffold1804	192140	TT	AA	1947020826
SNP_P4_167871_192173	NW_004516909.1	Scaffold1804	192173	AA	GG	1947020828
SNP_P4_167872_192197	NW_004516909.1	Scaffold1804	192197	CC	TT	1947020830
SNP_P4_167873_192247	NW_004516909.1	Scaffold1804	192247	TT	AA	1947020832
SNP_P4_167874_192248	NW_004516909.1	Scaffold1804	192248	AA	GG	1947020834
SNP_P4_167875_192249	NW_004516909.1	Scaffold1804	192249	TT	AA	1947020835
SNP_P4_167876_205132	NW_004516909.1	Scaffold1804	205132	AA	CC	1947020837
SNP_P4_167877_205155	NW_004516909.1	Scaffold1804	205155	GG	TT	1947020839
SNP_P4_167878_212960	NW_004516909.1	Scaffold1804	212960	AA	CC	1947020841
SNP_P4_167879_214884	NW_004516909.1	Scaffold1804	214884	AA	GG	1947020843
SNP_P4_167880_214896	NW_004516909.1	Scaffold1804	214896	CC	AA	1947020845
SNP_P4_167881_216673	NW_004516909.1	Scaffold1804	216673	AA	GG	1947020847
SNP_P4_167882_219874	NW_004516909.1	Scaffold1804	219874	AA	GG	1947020849
SNP_P4_167883_223583	NW_004516909.1	Scaffold1804	223583	AA	GG	1947020851
SNP_P4_167884_223635	NW_004516909.1	Scaffold1804	223635	GG	AA	1947020852
SNP_P4_167885_225483	NW_004516909.1	Scaffold1804	225483	AA	GG	1947020854
SNP_P4_167886_226601	NW_004516909.1	Scaffold1804	226601	TT	CC	1947020856
SNP_P4_167887_226640	NW_004516909.1	Scaffold1804	226640	CC	TT	1947020858
SNP_P4_167888_230702	NW_004516909.1	Scaffold1804	230702	GG	AA	1947020860
SNP_P4_167889_234184	NW_004516909.1	Scaffold1804	234184	TT	CC	1947020862
SNP_P4_167890_234328	NW_004516909.1	Scaffold1804	234328	TT	CC	1947020864
SNP_P4_167891_234527	NW_004516909.1	Scaffold1804	234527	TT	AA	1947020866
SNP_P4_167892_234640	NW_004516909.1	Scaffold1804	234640	CC	TT	1947020868
SNP_P4_167893_236960	NW_004516909.1	Scaffold1804	236960	GG	AA	1947020869
SNP_P4_167894_244532	NW_004516909.1	Scaffold1804	244532	AA	CC	1947020871
SNP_P4_167895_244682	NW_004516909.1	Scaffold1804	244682	CC	AA	1947020873
SNP_P4_167896_246834	NW_004516909.1	Scaffold1804	246834	GG	TT	1947020875
SNP_P4_167897_246865	NW_004516909.1	Scaffold1804	246865	AA	GG	1947020877
SNP_P4_167898_246901	NW_004516909.1	Scaffold1804	246901	GG	TT	1947020879

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_167900_247307	NW_004516909.1	Scaffold1804	247307	AA	CC	1947020883
SNP_P4_167901_253308	NW_004516909.1	Scaffold1804	253308	AA	TT	1947020885
SNP_P4_167902_253314	NW_004516909.1	Scaffold1804	253314	TT	AA	1947020886
SNP_P4_167903_253541	NW_004516909.1	Scaffold1804	253541	AA	TT	1947020888
SNP_P4_167905_253574	NW_004516909.1	Scaffold1804	253574	TT	CC	1947020890
SNP_P4_167906_253575	NW_004516909.1	Scaffold1804	253575	CC	GG	1947020892
SNP_P4_167907_253716	NW_004516909.1	Scaffold1804	253716	TT	CC	1947020894
SNP_P4_167908_253840	NW_004516909.1	Scaffold1804	253840	CC	TT	1947020896
SNP_P4_167909_253897	NW_004516909.1	Scaffold1804	253897	CC	TT	1947020898
SNP_P4_167910_257642	NW_004516909.1	Scaffold1804	257642	TT	CC	1947020900
SNP_P4_167911_257658	NW_004516909.1	Scaffold1804	257658	CC	AA	1947020902
SNP_P4_167912_257704	NW_004516909.1	Scaffold1804	257704	AA	GG	1947020904
SNP_P4_167913_257727	NW_004516909.1	Scaffold1804	257727	GG	AA	1947020905
SNP_P4_167915_257997	NW_004516909.1	Scaffold1804	257997	TT	GG	1947020907
SNP_P4_167916_277991	NW_004516909.1	Scaffold1804	277991	CC	AA	1947020909
SNP_P4_167917_286185	NW_004516909.1	Scaffold1804	286185	CC	AA	1947020911
SNP_P4_167918_287017	NW_004516909.1	Scaffold1804	287017	CC	TT	1947020913
SNP_P4_167919_287043	NW_004516909.1	Scaffold1804	287043	GG	TT	1947020915
SNP_P4_167920_287056	NW_004516909.1	Scaffold1804	287056	TT	GG	1947020917
SNP_P4_167921_287276	NW_004516909.1	Scaffold1804	287276	TT	AA	1947020919
SNP_P4_167922_292972	NW_004516909.1	Scaffold1804	292972	GG	CC	1947020921
SNP_P4_167923_298415	NW_004516909.1	Scaffold1804	298415	GG	AA	1947020922
SNP_P4_167924_310075	NW_004516909.1	Scaffold1804	310075	TT	GG	1947020924
SNP_P4_167925_310412	NW_004516909.1	Scaffold1804	310412	CC	TT	1947020926
SNP_P4_167926_310431	NW_004516909.1	Scaffold1804	310431	AA	TT	1947020928
SNP_P4_167927_317851	NW_004516909.1	Scaffold1804	317851	CC	GG	1947020930
SNP_P4_167928_317904	NW_004516909.1	Scaffold1804	317904	CC	AA	1947020932
SNP_P4_167929_317906	NW_004516909.1	Scaffold1804	317906	TT	AA	1947020934
SNP_P4_167931_318835	NW_004516909.1	Scaffold1804	318835	CC	TT	1947020936
SNP_P4_167932_318899	NW_004516909.1	Scaffold1804	318899	AA	GG	1947020938
SNP_P4_167933_319183	NW_004516909.1	Scaffold1804	319183	TT	CC	1947020940
SNP_P4_167934_319236	NW_004516909.1	Scaffold1804	319236	TT	CC	1947020942
SNP_P4_167935_319597	NW_004516909.1	Scaffold1804	319597	GG	CC	1947020944
SNP_P4_167936_64	NW_004516910.1	Scaffold1806	64	CC	AA	1947020945
SNP_P4_167937_107	NW_004516910.1	Scaffold1806	107	AA	TT	1947020947
SNP_P4_167939_225	NW_004516910.1	Scaffold1806	225	CC	TT	1947020949
SNP_P4_167940_324	NW_004516910.1	Scaffold1806	324	GG	AA	1947020951
SNP_P4_167941_347	NW_004516910.1	Scaffold1806	347	AA	CC	1947020953
SNP_P4_167942_365	NW_004516910.1	Scaffold1806	365	CC	GG	1947020955
SNP_P4_167943_446	NW_004516910.1	Scaffold1806	446	GG	TT	1947020957
SNP_P4_167944_457	NW_004516910.1	Scaffold1806	457	TT	AA	1947020959

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_167945_469	NW_004516910.1	Scaffold1806	469	CC	TT	1947020961
SNP_P4_167946_541	NW_004516910.1	Scaffold1806	541	AA	GG	1947020962
SNP_P4_167947_555	NW_004516910.1	Scaffold1806	555	AA	GG	1947020964
SNP_P4_167948_650	NW_004516910.1	Scaffold1806	650	GG	CC	1947020966
SNP_P4_167949_701	NW_004516910.1	Scaffold1806	701	AA	GG	1947020968
SNP_P4_167950_730	NW_004516910.1	Scaffold1806	730	AA	GG	1947020970
SNP_P4_167951_2389	NW_004516910.1	Scaffold1806	2389	GG	AA	1947020972
SNP_P4_167952_2390	NW_004516910.1	Scaffold1806	2390	TT	GG	1947020974
SNP_P4_167953_2391	NW_004516910.1	Scaffold1806	2391	GG	TT	1947020976
SNP_P4_167954_2407	NW_004516910.1	Scaffold1806	2407	GG	AA	1947020978
SNP_P4_167955_2435	NW_004516910.1	Scaffold1806	2435	AA	GG	1947020980
SNP_P4_167956_2563	NW_004516910.1	Scaffold1806	2563	TT	AA	1947020982
SNP_P4_167957_2566	NW_004516910.1	Scaffold1806	2566	TT	CC	1947020984
SNP_P4_167958_2754	NW_004516910.1	Scaffold1806	2754	CC	TT	1947020985
SNP_P4_167959_2942	NW_004516910.1	Scaffold1806	2942	CC	TT	1947020987
SNP_P4_167960_2978	NW_004516910.1	Scaffold1806	2978	GG	AA	1947020989
SNP_P4_167962_3542	NW_004516910.1	Scaffold1806	3542	CC	AA	1947020991
SNP_P4_167963_3584	NW_004516910.1	Scaffold1806	3584	GG	CC	1947020993
SNP_P4_167964_3986	NW_004516910.1	Scaffold1806	3986	TT	GG	1947020995
SNP_P4_167965_4586	NW_004516910.1	Scaffold1806	4586	AA	GG	1947020997
SNP_P4_167966_4702	NW_004516910.1	Scaffold1806	4702	TT	CC	1947020999
SNP_P4_167967_4919	NW_004516910.1	Scaffold1806	4919	AA	GG	1947021001
SNP_P4_167968_4956	NW_004516910.1	Scaffold1806	4956	CC	GG	1947021003
SNP_P4_167969_4966	NW_004516910.1	Scaffold1806	4966	GG	AA	1947021005
SNP_P4_167970_5041	NW_004516910.1	Scaffold1806	5041	AA	TT	1947021006
SNP_P4_167971_5279	NW_004516910.1	Scaffold1806	5279	GG	TT	1947021008
SNP_P4_167973_7016	NW_004516910.1	Scaffold1806	7016	AA	GG	1947021010
SNP_P4_167974_7064	NW_004516910.1	Scaffold1806	7064	CC	AA	1947021012
SNP_P4_167975_7076	NW_004516910.1	Scaffold1806	7076	CC	GG	1947021014
SNP_P4_167976_7435	NW_004516910.1	Scaffold1806	7435	AA	CC	1947021016
SNP_P4_167977_7465	NW_004516910.1	Scaffold1806	7465	CC	TT	1947021018
SNP_P4_167978_7480	NW_004516910.1	Scaffold1806	7480	TT	AA	1947021019
SNP_P4_167979_7518	NW_004516910.1	Scaffold1806	7518	TT	AA	1947021021
SNP_P4_167980_7535	NW_004516910.1	Scaffold1806	7535	AA	GG	1947021023
SNP_P4_167981_7906	NW_004516910.1	Scaffold1806	7906	GG	TT	1947021025
SNP_P4_167982_7950	NW_004516910.1	Scaffold1806	7950	TT	AA	1947021027
SNP_P4_167983_8213	NW_004516910.1	Scaffold1806	8213	CC	AA	1947021029
SNP_P4_167984_8478	NW_004516910.1	Scaffold1806	8478	AA	GG	1947021031
SNP_P4_167985_8536	NW_004516910.1	Scaffold1806	8536	AA	GG	1947021033
SNP_P4_167986_8599	NW_004516910.1	Scaffold1806	8599	AA	GG	1947021035
SNP_P4_167987_8760	NW_004516910.1	Scaffold1806	8760	CC	GG	1947021037
SNP_P4_167988_8776	NW_004516910.1	Scaffold1806	8776	AA	GG	1947021039

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_167990_23943	NW_004516910.1	Scaffold1806	23943	TT	AA	1947021043
SNP_P4_167991_24090	NW_004516910.1	Scaffold1806	24090	CC	TT	1947021044
SNP_P4_167992_24170	NW_004516910.1	Scaffold1806	24170	TT	AA	1947021046
SNP_P4_167993_24427	NW_004516910.1	Scaffold1806	24427	CC	AA	1947021048
SNP_P4_167994_24656	NW_004516910.1	Scaffold1806	24656	CC	TT	1947021050
SNP_P4_167995_24660	NW_004516910.1	Scaffold1806	24660	CC	TT	1947021052
SNP_P4_167996_24768	NW_004516910.1	Scaffold1806	24768	CC	AA	1947021054
SNP_P4_167997_24793	NW_004516910.1	Scaffold1806	24793	TT	AA	1947021056
SNP_P4_167998_25347	NW_004516910.1	Scaffold1806	25347	AA	CC	1947021058
SNP_P4_167999_25986	NW_004516910.1	Scaffold1806	25986	CC	TT	1947021060
SNP_P4_168000_26314	NW_004516910.1	Scaffold1806	26314	CC	TT	1947021062
SNP_P4_168001_26667	NW_004516910.1	Scaffold1806	26667	TT	AA	1947021064
SNP_P4_168002_26757	NW_004516910.1	Scaffold1806	26757	GG	AA	1947021066
SNP_P4_168003_26878	NW_004516910.1	Scaffold1806	26878	TT	AA	1947021068
SNP_P4_168004_27144	NW_004516910.1	Scaffold1806	27144	GG	CC	1947021070
SNP_P4_168005_27198	NW_004516910.1	Scaffold1806	27198	GG	AA	1947021072
SNP_P4_168006_28204	NW_004516910.1	Scaffold1806	28204	TT	CC	1947021074
SNP_P4_168007_28256	NW_004516910.1	Scaffold1806	28256	AA	TT	1947021076
SNP_P4_168008_28263	NW_004516910.1	Scaffold1806	28263	TT	AA	1947021078
SNP_P4_168009_28264	NW_004516910.1	Scaffold1806	28264	TT	CC	1947021080
SNP_P4_168010_28481	NW_004516910.1	Scaffold1806	28481	GG	AA	1947021082
SNP_P4_168011_28546	NW_004516910.1	Scaffold1806	28546	TT	CC	1947021084
SNP_P4_168012_498	NW_004516913.1	Scaffold1810	498	GG	AA	1947021086
SNP_P4_168013_519	NW_004516913.1	Scaffold1810	519	GG	AA	1947021087
SNP_P4_168014_731	NW_004516913.1	Scaffold1810	731	TT	GG	1947021089
SNP_P4_168015_969	NW_004516913.1	Scaffold1810	969	AA	TT	1947021091
SNP_P4_168016_1028	NW_004516913.1	Scaffold1810	1028	TT	AA	1947021093
SNP_P4_168017_1331	NW_004516913.1	Scaffold1810	1331	GG	AA	1947021095
SNP_P4_168018_1431	NW_004516913.1	Scaffold1810	1431	GG	AA	1947021097
SNP_P4_168019_1649	NW_004516913.1	Scaffold1810	1649	AA	CC	1947021099
SNP_P4_168020_1694	NW_004516913.1	Scaffold1810	1694	CC	TT	1947021101
SNP_P4_168021_1735	NW_004516913.1	Scaffold1810	1735	TT	AA	1947021103
SNP_P4_168022_1946	NW_004516913.1	Scaffold1810	1946	TT	AA	1947021105
SNP_P4_168023_2053	NW_004516913.1	Scaffold1810	2053	CC	TT	1947021107
SNP_P4_168024_2066	NW_004516913.1	Scaffold1810	2066	GG	AA	1947021109
SNP_P4_168025_2243	NW_004516913.1	Scaffold1810	2243	TT	CC	1947021110
SNP_P4_168026_24349	NW_004516913.1	Scaffold1810	24349	TT	CC	1947021112
SNP_P4_168027_24360	NW_004516913.1	Scaffold1810	24360	AA	GG	1947021114
SNP_P4_168028_25430	NW_004516913.1	Scaffold1810	25430	GG	CC	1947021116
SNP_P4_168029_28377	NW_004516913.1	Scaffold1810	28377	AA	GG	1947021118
SNP_P4_168031_47612	NW_004516913.1	Scaffold1810	47612	TT	CC	1947021120

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_168033_95353	NW_004516913.1	Scaffold1810	95353	TT	CC	1947021124
SNP_P4_168034_98522	NW_004516913.1	Scaffold1810	98522	AA	TT	1947021126
SNP_P4_168036_98595	NW_004516913.1	Scaffold1810	98595	TT	AA	1947021128
SNP_P4_168037_98663	NW_004516913.1	Scaffold1810	98663	AA	GG	1947021129
SNP_P4_168038_98676	NW_004516913.1	Scaffold1810	98676	CC	TT	1947021131
SNP_P4_168039_98679	NW_004516913.1	Scaffold1810	98679	CC	AA	1947021133
SNP_P4_168040_98687	NW_004516913.1	Scaffold1810	98687	AA	GG	1947021135
SNP_P4_168041_98813	NW_004516913.1	Scaffold1810	98813	GG	AA	1947021137
SNP_P4_168042_101967	NW_004516913.1	Scaffold1810	101967	AA	TT	1947021139
SNP_P4_168043_103203	NW_004516913.1	Scaffold1810	103203	TT	CC	1947021141
SNP_P4_168044_103209	NW_004516913.1	Scaffold1810	103209	TT	GG	1947021143
SNP_P4_168046_103347	NW_004516913.1	Scaffold1810	103347	GG	AA	1947021145
SNP_P4_168047_103363	NW_004516913.1	Scaffold1810	103363	TT	AA	1947021147
SNP_P4_168048_103413	NW_004516913.1	Scaffold1810	103413	AA	GG	1947021149
SNP_P4_168049_103633	NW_004516913.1	Scaffold1810	103633	GG	AA	1947021151
SNP_P4_168050_103667	NW_004516913.1	Scaffold1810	103667	GG	TT	1947021153
SNP_P4_168053_103934	NW_004516913.1	Scaffold1810	103934	TT	CC	1947021155
SNP_P4_168054_105071	NW_004516913.1	Scaffold1810	105071	AA	TT	1947021157
SNP_P4_168055_105085	NW_004516913.1	Scaffold1810	105085	TT	AA	1947021159
SNP_P4_168056_25	NW_004516914.1	Scaffold1811	25	TT	CC	1947021161
SNP_P4_168057_46	NW_004516914.1	Scaffold1811	46	CC	TT	1947021162
SNP_P4_168058_1579	NW_004516916.1	Scaffold1813	1579	GG	AA	1947021164
SNP_P4_168059_1580	NW_004516916.1	Scaffold1813	1580	AA	GG	1947021166
SNP_P4_168060_1897	NW_004516916.1	Scaffold1813	1897	AA	TT	1947021168
SNP_P4_168061_423	NW_004516917.1	Scaffold1814	423	TT	CC	1947021170
SNP_P4_168062_1850	NW_004516918.1	Scaffold1815	1850	CC	GG	1947021172
SNP_P4_168063_5477	NW_004516918.1	Scaffold1815	5477	CC	TT	1947021174
SNP_P4_168064_5738	NW_004516918.1	Scaffold1815	5738	GG	AA	1947021176
SNP_P4_168066_5771	NW_004516918.1	Scaffold1815	5771	TT	CC	1947021178
SNP_P4_168067_8899	NW_004516918.1	Scaffold1815	8899	GG	TT	1947021179
SNP_P4_168068_8930	NW_004516918.1	Scaffold1815	8930	TT	CC	1947021181
SNP_P4_168069_8947	NW_004516918.1	Scaffold1815	8947	GG	AA	1947021183
SNP_P4_168070_9240	NW_004516918.1	Scaffold1815	9240	AA	GG	1947021185
SNP_P4_168071_12795	NW_004516918.1	Scaffold1815	12795	AA	GG	1947021187
SNP_P4_168072_12827	NW_004516918.1	Scaffold1815	12827	AA	GG	1947021189
SNP_P4_168073_13019	NW_004516918.1	Scaffold1815	13019	AA	GG	1947021191
SNP_P4_168074_13105	NW_004516918.1	Scaffold1815	13105	GG	TT	1947021193
SNP_P4_168076_24010	NW_004516918.1	Scaffold1815	24010	AA	TT	1947021195
SNP_P4_168077_24135	NW_004516918.1	Scaffold1815	24135	TT	CC	1947021197
SNP_P4_168079_24776	NW_004516918.1	Scaffold1815	24776	GG	TT	1947021198
SNP_P4_168080_24797	NW_004516918.1	Scaffold1815	24797	CC	AA	1947021200

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_168082_31939	NW_004516918.1	Scaffold1815	31939	AA	GG	1947021204
SNP_P4_168083_32173	NW_004516918.1	Scaffold1815	32173	AA	GG	1947021206
SNP_P4_168084_32732	NW_004516918.1	Scaffold1815	32732	TT	CC	1947021208
SNP_P4_168085_34555	NW_004516918.1	Scaffold1815	34555	CC	TT	1947021210
SNP_P4_168086_14268	NW_004516919.1	Scaffold1816	14268	TT	AA	1947021212
SNP_P4_168087_15682	NW_004516919.1	Scaffold1816	15682	AA	GG	1947021214
SNP_P4_168088_25829	NW_004516919.1	Scaffold1816	25829	TT	AA	1947021216
SNP_P4_168089_25842	NW_004516919.1	Scaffold1816	25842	CC	TT	1947021218
SNP_P4_168090_25851	NW_004516919.1	Scaffold1816	25851	CC	TT	1947021220
SNP_P4_168091_26240	NW_004516919.1	Scaffold1816	26240	TT	CC	1947021222
SNP_P4_168092_26494	NW_004516919.1	Scaffold1816	26494	CC	TT	1947021224
SNP_P4_168093_26759	NW_004516919.1	Scaffold1816	26759	CC	GG	1947021226
SNP_P4_168094_27031	NW_004516919.1	Scaffold1816	27031	CC	TT	1947021228
SNP_P4_168095_27083	NW_004516919.1	Scaffold1816	27083	TT	CC	1947021230
SNP_P4_168096_27117	NW_004516919.1	Scaffold1816	27117	GG	AA	1947021232
SNP_P4_168097_27126	NW_004516919.1	Scaffold1816	27126	AA	TT	1947021234
SNP_P4_168098_27803	NW_004516919.1	Scaffold1816	27803	AA	CC	1947021236
SNP_P4_168099_27880	NW_004516919.1	Scaffold1816	27880	AA	TT	1947021238
SNP_P4_168100_27897	NW_004516919.1	Scaffold1816	27897	CC	AA	1947021240
SNP_P4_168101_27997	NW_004516919.1	Scaffold1816	27997	AA	CC	1947021241
SNP_P4_168102_28316	NW_004516919.1	Scaffold1816	28316	TT	GG	1947021243
SNP_P4_168103_28707	NW_004516919.1	Scaffold1816	28707	GG	AA	1947021245
SNP_P4_168104_28719	NW_004516919.1	Scaffold1816	28719	GG	CC	1947021247
SNP_P4_168105_29004	NW_004516919.1	Scaffold1816	29004	TT	CC	1947021249
SNP_P4_168106_49735	NW_004516919.1	Scaffold1816	49735	TT	CC	1947021251
SNP_P4_168107_49739	NW_004516919.1	Scaffold1816	49739	CC	TT	1947021253
SNP_P4_168109_52676	NW_004516919.1	Scaffold1816	52676	TT	CC	1947021255
SNP_P4_168110_52755	NW_004516919.1	Scaffold1816	52755	GG	AA	1947021257
SNP_P4_168111_52763	NW_004516919.1	Scaffold1816	52763	GG	AA	1947021259
SNP_P4_168112_52952	NW_004516919.1	Scaffold1816	52952	TT	CC	1947021261
SNP_P4_168113_52975	NW_004516919.1	Scaffold1816	52975	GG	AA	1947021263
SNP_P4_168114_52991	NW_004516919.1	Scaffold1816	52991	CC	AA	1947021265
SNP_P4_168115_52992	NW_004516919.1	Scaffold1816	52992	TT	CC	1947021267
SNP_P4_168116_52999	NW_004516919.1	Scaffold1816	52999	TT	CC	1947021269
SNP_P4_168117_53009	NW_004516919.1	Scaffold1816	53009	TT	CC	1947021271
SNP_P4_168118_53044	NW_004516919.1	Scaffold1816	53044	TT	AA	1947021273
SNP_P4_168119_53064	NW_004516919.1	Scaffold1816	53064	TT	CC	1947021275
SNP_P4_168120_53083	NW_004516919.1	Scaffold1816	53083	CC	GG	1947021277
SNP_P4_168121_53110	NW_004516919.1	Scaffold1816	53110	AA	GG	1947021279
SNP_P4_168122_53115	NW_004516919.1	Scaffold1816	53115	GG	AA	1947021281
SNP_P4_168123_53141	NW_004516919.1	Scaffold1816	53141	AA	GG	1947021283

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_168124_53347	NW_004516919.1	Scaffold1816	53347	CC	GG	1947021285
SNP_P4_168125_53367	NW_004516919.1	Scaffold1816	53367	AA	GG	1947021287
SNP_P4_168126_53386	NW_004516919.1	Scaffold1816	53386	TT	AA	1947021289
SNP_P4_168127_53448	NW_004516919.1	Scaffold1816	53448	AA	GG	1947021291
SNP_P4_168128_53496	NW_004516919.1	Scaffold1816	53496	GG	CC	1947021293
SNP_P4_168129_53552	NW_004516919.1	Scaffold1816	53552	TT	CC	1947021295
SNP_P4_168130_53582	NW_004516919.1	Scaffold1816	53582	CC	TT	1947021297
SNP_P4_168132_53686	NW_004516919.1	Scaffold1816	53686	TT	CC	1947021299
SNP_P4_168133_2982	NW_004516920.1	Scaffold1817	2982	GG	AA	1947021301
SNP_P4_168134_3079	NW_004516920.1	Scaffold1817	3079	AA	GG	1947021303
SNP_P4_168135_3298	NW_004516920.1	Scaffold1817	3298	AA	GG	1947021305
SNP_P4_168136_3336	NW_004516920.1	Scaffold1817	3336	TT	CC	1947021307
SNP_P4_168137_3403	NW_004516920.1	Scaffold1817	3403	TT	CC	1947021309
SNP_P4_168138_3432	NW_004516920.1	Scaffold1817	3432	TT	CC	1947021311
SNP_P4_168139_3679	NW_004516920.1	Scaffold1817	3679	CC	GG	1947021313
SNP_P4_168140_3748	NW_004516920.1	Scaffold1817	3748	AA	GG	1947021315
SNP_P4_168141_18725	NW_004516921.1	Scaffold1818	18725	AA	CC	1947021317
SNP_P4_168142_18741	NW_004516921.1	Scaffold1818	18741	AA	GG	1947021318
SNP_P4_168143_18989	NW_004516921.1	Scaffold1818	18989	AA	CC	1947021320
SNP_P4_168144_18995	NW_004516921.1	Scaffold1818	18995	GG	TT	1947021322
SNP_P4_168145_19292	NW_004516921.1	Scaffold1818	19292	GG	AA	1947021324
SNP_P4_168146_19312	NW_004516921.1	Scaffold1818	19312	AA	TT	1947021326
SNP_P4_168147_19351	NW_004516921.1	Scaffold1818	19351	CC	AA	1947021328
SNP_P4_168148_19509	NW_004516921.1	Scaffold1818	19509	TT	AA	1947021330
SNP_P4_168149_19595	NW_004516921.1	Scaffold1818	19595	CC	GG	1947021332
SNP_P4_168150_22629	NW_004516921.1	Scaffold1818	22629	TT	GG	1947021334
SNP_P4_168151_27344	NW_004516921.1	Scaffold1818	27344	TT	GG	1947021336
SNP_P4_168152_27352	NW_004516921.1	Scaffold1818	27352	TT	CC	1947021338
SNP_P4_168153_28531	NW_004516921.1	Scaffold1818	28531	TT	CC	1947021340
SNP_P4_168154_28576	NW_004516921.1	Scaffold1818	28576	AA	GG	1947021342
SNP_P4_168155_28593	NW_004516921.1	Scaffold1818	28593	AA	GG	1947021344
SNP_P4_168156_28603	NW_004516921.1	Scaffold1818	28603	AA	TT	1947021346
SNP_P4_168157_28630	NW_004516921.1	Scaffold1818	28630	GG	AA	1947021347
SNP_P4_168158_28652	NW_004516921.1	Scaffold1818	28652	CC	AA	1947021349
SNP_P4_168159_194	NW_004516923.1	Scaffold1820	194	AA	TT	1947021351
SNP_P4_168160_214	NW_004516923.1	Scaffold1820	214	TT	AA	1947021353
SNP_P4_168161_8731	NW_004516924.1	Scaffold1822	8731	AA	GG	1947021355
SNP_P4_168162_17390	NW_004516924.1	Scaffold1822	17390	CC	TT	1947021357
SNP_P4_168164_17423	NW_004516924.1	Scaffold1822	17423	TT	AA	1947021359
SNP_P4_168166_17507	NW_004516924.1	Scaffold1822	17507	TT	AA	1947021361
SNP_P4_168167_17646	NW_004516924.1	Scaffold1822	17646	GG	AA	1947021362
SNP_P4_168168_17846	NW_004516924.1	Scaffold1822	17846	CC	TT	1947021364

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_168169_18160	NW_004516924.1	Scaffold1822	18160	TT	CC	1947021366
SNP_P4_168170_18282	NW_004516924.1	Scaffold1822	18282	AA	GG	1947021368
SNP_P4_168171_18329	NW_004516924.1	Scaffold1822	18329	CC	AA	1947021370
SNP_P4_168172_18332	NW_004516924.1	Scaffold1822	18332	GG	AA	1947021372
SNP_P4_168173_18349	NW_004516924.1	Scaffold1822	18349	CC	TT	1947021374
SNP_P4_168175_20756	NW_004516924.1	Scaffold1822	20756	CC	AA	1947021376
SNP_P4_168176_38842	NW_004516924.1	Scaffold1822	38842	CC	GG	1947021378
SNP_P4_168177_38962	NW_004516924.1	Scaffold1822	38962	TT	CC	1947021380
SNP_P4_168178_44637	NW_004516924.1	Scaffold1822	44637	TT	CC	1947021382
SNP_P4_168179_46900	NW_004516924.1	Scaffold1822	46900	GG	AA	1947021384
SNP_P4_168180_47286	NW_004516924.1	Scaffold1822	47286	TT	CC	1947021386
SNP_P4_168181_4947	NW_004516926.1	Scaffold1825	4947	GG	AA	1947021388
SNP_P4_168183_26068	NW_004516926.1	Scaffold1825	26068	GG	AA	1947021390
SNP_P4_168184_26104	NW_004516926.1	Scaffold1825	26104	GG	AA	1947021392
SNP_P4_168185_26276	NW_004516926.1	Scaffold1825	26276	CC	TT	1947021394
SNP_P4_168187_45909	NW_004516926.1	Scaffold1825	45909	GG	AA	1947021396
SNP_P4_168188_48938	NW_004516926.1	Scaffold1825	48938	CC	TT	1947021398
SNP_P4_168189_48939	NW_004516926.1	Scaffold1825	48939	CC	TT	1947021400
SNP_P4_168190_50535	NW_004516926.1	Scaffold1825	50535	CC	AA	1947021402
SNP_P4_168192_63766	NW_004516926.1	Scaffold1825	63766	TT	CC	1947021404
SNP_P4_168193_63781	NW_004516926.1	Scaffold1825	63781	GG	AA	1947021406
SNP_P4_168194_63787	NW_004516926.1	Scaffold1825	63787	GG	CC	1947021408
SNP_P4_168195_64208	NW_004516926.1	Scaffold1825	64208	GG	AA	1947021410
SNP_P4_168196_64269	NW_004516926.1	Scaffold1825	64269	GG	AA	1947021412
SNP_P4_168197_64299	NW_004516926.1	Scaffold1825	64299	TT	CC	1947021414
SNP_P4_168198_66867	NW_004516926.1	Scaffold1825	66867	CC	TT	1947021416
SNP_P4_168199_71297	NW_004516926.1	Scaffold1825	71297	AA	CC	1947021417
SNP_P4_168200_71341	NW_004516926.1	Scaffold1825	71341	CC	TT	1947021419
SNP_P4_168201_71539	NW_004516926.1	Scaffold1825	71539	AA	GG	1947021421
SNP_P4_168202_71554	NW_004516926.1	Scaffold1825	71554	AA	CC	1947021423
SNP_P4_168203_71566	NW_004516926.1	Scaffold1825	71566	GG	AA	1947021425
SNP_P4_168204_71567	NW_004516926.1	Scaffold1825	71567	AA	GG	1947021427
SNP_P4_168205_71580	NW_004516926.1	Scaffold1825	71580	TT	CC	1947021429
SNP_P4_168206_112049	NW_004516926.1	Scaffold1825	112049	AA	TT	1947021431
SNP_P4_168207_112050	NW_004516926.1	Scaffold1825	112050	TT	AA	1947021433
SNP_P4_168208_112124	NW_004516926.1	Scaffold1825	112124	TT	AA	1947021435
SNP_P4_168209_118214	NW_004516926.1	Scaffold1825	118214	GG	TT	1947021437
SNP_P4_168210_126458	NW_004516926.1	Scaffold1825	126458	CC	GG	1947021439
SNP_P4_168211_131572	NW_004516926.1	Scaffold1825	131572	GG	AA	1947021440
SNP_P4_168212_132222	NW_004516926.1	Scaffold1825	132222	CC	TT	1947021442
SNP_P4_168213_133693	NW_004516926.1	Scaffold1825	133693	CC	TT	1947021444
SNP_P4_168214_135705	NW_004516926.1	Scaffold1825	135705	GG	CC	1947021446

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_168216_147754	NW_004516926.1	Scaffold1825	147754	GG	CC	1947021450
SNP_P4_168217_147783	NW_004516926.1	Scaffold1825	147783	GG	CC	1947021452
SNP_P4_168218_147835	NW_004516926.1	Scaffold1825	147835	TT	CC	1947021454
SNP_P4_168219_147842	NW_004516926.1	Scaffold1825	147842	AA	GG	1947021456
SNP_P4_168221_149764	NW_004516926.1	Scaffold1825	149764	CC	TT	1947021458
SNP_P4_168222_149857	NW_004516926.1	Scaffold1825	149857	CC	TT	1947021460
SNP_P4_168223_150217	NW_004516926.1	Scaffold1825	150217	CC	TT	1947021462
SNP_P4_168224_153613	NW_004516926.1	Scaffold1825	153613	CC	TT	1947021464
SNP_P4_168225_156503	NW_004516926.1	Scaffold1825	156503	AA	GG	1947021465
SNP_P4_168226_21332	NW_004516928.1	Scaffold1829	21332	AA	TT	1947021467
SNP_P4_168227_21518	NW_004516928.1	Scaffold1829	21518	TT	CC	1947021469
SNP_P4_168229_29394	NW_004516929.1	Scaffold1830	29394	TT	GG	1947021471
SNP_P4_168230_29458	NW_004516929.1	Scaffold1830	29458	CC	TT	1947021473
SNP_P4_168231_29500	NW_004516929.1	Scaffold1830	29500	CC	GG	1947021475
SNP_P4_168232_29802	NW_004516929.1	Scaffold1830	29802	AA	TT	1947021477
SNP_P4_168233_30023	NW_004516929.1	Scaffold1830	30023	GG	CC	1947021479
SNP_P4_168234_33246	NW_004516929.1	Scaffold1830	33246	TT	AA	1947021481
SNP_P4_168235_33494	NW_004516929.1	Scaffold1830	33494	CC	AA	1947021483
SNP_P4_168236_37397	NW_004516929.1	Scaffold1830	37397	AA	GG	1947021484
SNP_P4_168237_37423	NW_004516929.1	Scaffold1830	37423	AA	GG	1947021486
SNP_P4_168238_38171	NW_004516929.1	Scaffold1830	38171	GG	AA	1947021488
SNP_P4_168239_43304	NW_004516929.1	Scaffold1830	43304	AA	CC	1947021490
SNP_P4_168240_1506	NW_004516930.1	Scaffold1832	1506	CC	TT	1947021492
SNP_P4_168241_64	NW_004516931.1	Scaffold1835	64	CC	GG	1947021494
SNP_P4_168242_104	NW_004516931.1	Scaffold1835	104	AA	TT	1947021496
SNP_P4_168243_116	NW_004516931.1	Scaffold1835	116	CC	TT	1947021497
SNP_P4_168244_558	NW_004516931.1	Scaffold1835	558	GG	AA	1947021499
SNP_P4_168245_666	NW_004516931.1	Scaffold1835	666	TT	GG	1947021501
SNP_P4_168246_712	NW_004516931.1	Scaffold1835	712	AA	GG	1947021503
SNP_P4_168247_758	NW_004516931.1	Scaffold1835	758	TT	CC	1947021505
SNP_P4_168248_988	NW_004516931.1	Scaffold1835	988	CC	AA	1947021507
SNP_P4_168249_1011	NW_004516931.1	Scaffold1835	1011	GG	TT	1947021509
SNP_P4_168250_1038	NW_004516931.1	Scaffold1835	1038	AA	GG	1947021511
SNP_P4_168251_1411	NW_004516931.1	Scaffold1835	1411	TT	GG	1947021513
SNP_P4_168252_1448	NW_004516931.1	Scaffold1835	1448	TT	CC	1947021515
SNP_P4_168253_1549	NW_004516931.1	Scaffold1835	1549	AA	GG	1947021517
SNP_P4_168254_1683	NW_004516931.1	Scaffold1835	1683	AA	GG	1947021519
SNP_P4_168255_1774	NW_004516931.1	Scaffold1835	1774	TT	CC	1947021521
SNP_P4_168256_2038	NW_004516931.1	Scaffold1835	2038	AA	GG	1947021523
SNP_P4_168257_2044	NW_004516931.1	Scaffold1835	2044	TT	CC	1947021525
SNP_P4_168258_2068	NW_004516931.1	Scaffold1835	2068	CC	TT	1947021527

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_168260_5325	NW_004516931.1	Scaffold1835	5325	TT	CC	1947021531
SNP_P4_168261_5327	NW_004516931.1	Scaffold1835	5327	TT	CC	1947021533
SNP_P4_168262_5344	NW_004516931.1	Scaffold1835	5344	GG	AA	1947021535
SNP_P4_168263_5364	NW_004516931.1	Scaffold1835	5364	CC	AA	1947021537
SNP_P4_168264_5396	NW_004516931.1	Scaffold1835	5396	CC	GG	1947021539
SNP_P4_168265_5430	NW_004516931.1	Scaffold1835	5430	TT	CC	1947021541
SNP_P4_168266_5463	NW_004516931.1	Scaffold1835	5463	CC	AA	1947021543
SNP_P4_168267_5785	NW_004516931.1	Scaffold1835	5785	GG	AA	1947021545
SNP_P4_168268_5916	NW_004516931.1	Scaffold1835	5916	TT	AA	1947021546
SNP_P4_168269_6732	NW_004516931.1	Scaffold1835	6732	TT	GG	1947021548
SNP_P4_168270_6736	NW_004516931.1	Scaffold1835	6736	GG	AA	1947021550
SNP_P4_168271_6783	NW_004516931.1	Scaffold1835	6783	GG	CC	1947021552
SNP_P4_168272_6785	NW_004516931.1	Scaffold1835	6785	GG	CC	1947021554
SNP_P4_168273_6805	NW_004516931.1	Scaffold1835	6805	CC	GG	1947021556
SNP_P4_168274_6812	NW_004516931.1	Scaffold1835	6812	TT	CC	1947021558
SNP_P4_168275_6814	NW_004516931.1	Scaffold1835	6814	GG	AA	1947021560
SNP_P4_168276_6823	NW_004516931.1	Scaffold1835	6823	GG	CC	1947021562
SNP_P4_168278_6855	NW_004516931.1	Scaffold1835	6855	GG	TT	1947021564
SNP_P4_168279_6859	NW_004516931.1	Scaffold1835	6859	GG	AA	1947021565
SNP_P4_168280_6860	NW_004516931.1	Scaffold1835	6860	CC	GG	1947021567
SNP_P4_168281_6863	NW_004516931.1	Scaffold1835	6863	GG	CC	1947021569
SNP_P4_168282_6874	NW_004516931.1	Scaffold1835	6874	GG	AA	1947021571
SNP_P4_168283_7365	NW_004516931.1	Scaffold1835	7365	GG	AA	1947021573
SNP_P4_168284_7559	NW_004516931.1	Scaffold1835	7559	CC	TT	1947021575
SNP_P4_168285_7710	NW_004516931.1	Scaffold1835	7710	GG	CC	1947021577
SNP_P4_168286_7829	NW_004516931.1	Scaffold1835	7829	AA	GG	1947021579
SNP_P4_168287_8026	NW_004516931.1	Scaffold1835	8026	AA	GG	1947021581
SNP_P4_168290_8207	NW_004516931.1	Scaffold1835	8207	GG	AA	1947021583
SNP_P4_168291_8208	NW_004516931.1	Scaffold1835	8208	CC	TT	1947021585
SNP_P4_168292_8339	NW_004516931.1	Scaffold1835	8339	CC	GG	1947021587
SNP_P4_168293_8341	NW_004516931.1	Scaffold1835	8341	GG	TT	1947021589
SNP_P4_168294_8404	NW_004516931.1	Scaffold1835	8404	TT	GG	1947021591
SNP_P4_168295_8438	NW_004516931.1	Scaffold1835	8438	TT	GG	1947021593
SNP_P4_168296_8456	NW_004516931.1	Scaffold1835	8456	AA	GG	1947021594
SNP_P4_168298_8515	NW_004516931.1	Scaffold1835	8515	GG	AA	1947021596
SNP_P4_168299_8762	NW_004516931.1	Scaffold1835	8762	GG	TT	1947021598
SNP_P4_168300_8831	NW_004516931.1	Scaffold1835	8831	CC	AA	1947021600
SNP_P4_168301_9417	NW_004516931.1	Scaffold1835	9417	CC	AA	1947021602
SNP_P4_168303_10541	NW_004516931.1	Scaffold1835	10541	CC	GG	1947021604
SNP_P4_168304_10563	NW_004516931.1	Scaffold1835	10563	TT	CC	1947021606
SNP_P4_168306_11300	NW_004516931.1	Scaffold1835	11300	CC	AA	1947021608

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_168309_25690	NW_004516931.1	Scaffold1835	25690	CC	TT	1947021613
SNP_P4_168310_25790	NW_004516931.1	Scaffold1835	25790	GG	AA	1947021615
SNP_P4_168311_25836	NW_004516931.1	Scaffold1835	25836	CC	TT	1947021617
SNP_P4_168312_26148	NW_004516931.1	Scaffold1835	26148	TT	AA	1947021619
SNP_P4_168313_26198	NW_004516931.1	Scaffold1835	26198	AA	GG	1947021621
SNP_P4_168314_26248	NW_004516931.1	Scaffold1835	26248	CC	TT	1947021623
SNP_P4_168317_2200	NW_004516932.1	Scaffold1838	2200	TT	CC	1947021625
SNP_P4_168318_2227	NW_004516932.1	Scaffold1838	2227	AA	GG	1947021626
SNP_P4_168319_410	NW_004516933.1	Scaffold1839	410	AA	TT	1947021628
SNP_P4_168320_597	NW_004516933.1	Scaffold1839	597	AA	GG	1947021630
SNP_P4_168321_668	NW_004516933.1	Scaffold1839	668	GG	TT	1947021632
SNP_P4_168322_2157	NW_004516933.1	Scaffold1839	2157	TT	AA	1947021634
SNP_P4_168323_7583	NW_004516933.1	Scaffold1839	7583	GG	AA	1947021636
SNP_P4_168324_21913	NW_004516933.1	Scaffold1839	21913	TT	AA	1947021638
SNP_P4_168325_21951	NW_004516933.1	Scaffold1839	21951	CC	TT	1947021640
SNP_P4_168326_7199	NW_004516934.1	Scaffold1840	7199	CC	TT	1947021642
SNP_P4_168327_7615	NW_004516934.1	Scaffold1840	7615	CC	GG	1947021643
SNP_P4_168329_913	NW_004516936.1	Scaffold1843	913	CC	GG	1947021644
SNP_P4_168331_615	NW_004516937.1	Scaffold1844	615	AA	TT	1947021645
SNP_P4_168332_665	NW_004516937.1	Scaffold1844	665	AA	GG	1947021646
SNP_P4_168333_679	NW_004516937.1	Scaffold1844	679	GG	AA	1947021647
SNP_P4_168334_734	NW_004516937.1	Scaffold1844	734	AA	GG	1947021649
SNP_P4_168335_837	NW_004516937.1	Scaffold1844	837	AA	GG	1947021651
SNP_P4_168336_847	NW_004516937.1	Scaffold1844	847	CC	AA	1947021653
SNP_P4_168337_886	NW_004516937.1	Scaffold1844	886	CC	TT	1947021655
SNP_P4_168338_917	NW_004516937.1	Scaffold1844	917	CC	TT	1947021657
SNP_P4_168339_957	NW_004516937.1	Scaffold1844	957	TT	CC	1947021659
SNP_P4_168340_967	NW_004516937.1	Scaffold1844	967	TT	CC	1947021661
SNP_P4_168341_990	NW_004516937.1	Scaffold1844	990	TT	CC	1947021663
SNP_P4_168342_1035	NW_004516937.1	Scaffold1844	1035	AA	CC	1947021665
SNP_P4_168343_1151	NW_004516937.1	Scaffold1844	1151	CC	TT	1947021667
SNP_P4_168344_1686	NW_004516937.1	Scaffold1844	1686	GG	TT	1947021669
SNP_P4_168345_1701	NW_004516937.1	Scaffold1844	1701	CC	TT	1947021671
SNP_P4_168346_1777	NW_004516937.1	Scaffold1844	1777	GG	AA	1947021672
SNP_P4_168347_1881	NW_004516937.1	Scaffold1844	1881	TT	CC	1947021674
SNP_P4_168348_1892	NW_004516937.1	Scaffold1844	1892	AA	TT	1947021676
SNP_P4_168349_1932	NW_004516937.1	Scaffold1844	1932	AA	TT	1947021678
SNP_P4_168352_2126	NW_004516937.1	Scaffold1844	2126	AA	CC	1947021680
SNP_P4_168353_2146	NW_004516937.1	Scaffold1844	2146	TT	AA	1947021682
SNP_P4_168354_2154	NW_004516937.1	Scaffold1844	2154	TT	GG	1947021684

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_168356_2240	NW_004516937.1	Scaffold1844	2240	TT	AA	1947021686
SNP_P4_168357_2309	NW_004516937.1	Scaffold1844	2309	CC	AA	1947021688
SNP_P4_168358_2327	NW_004516937.1	Scaffold1844	2327	CC	AA	1947021690
SNP_P4_168359_2374	NW_004516937.1	Scaffold1844	2374	TT	AA	1947021691
SNP_P4_168360_2403	NW_004516937.1	Scaffold1844	2403	TT	GG	1947021693
SNP_P4_168361_2464	NW_004516937.1	Scaffold1844	2464	GG	TT	1947021695
SNP_P4_168363_2631	NW_004516937.1	Scaffold1844	2631	CC	AA	1947021697
SNP_P4_168364_2673	NW_004516937.1	Scaffold1844	2673	AA	TT	1947021699
SNP_P4_168365_2733	NW_004516937.1	Scaffold1844	2733	GG	CC	1947021701
SNP_P4_168367_2766	NW_004516937.1	Scaffold1844	2766	CC	TT	1947021703
SNP_P4_168368_2797	NW_004516937.1	Scaffold1844	2797	CC	TT	1947021705
SNP_P4_168369_3302	NW_004516937.1	Scaffold1844	3302	GG	AA	1947021707
SNP_P4_168370_6270	NW_004516937.1	Scaffold1844	6270	CC	TT	1947021709
SNP_P4_168371_6271	NW_004516937.1	Scaffold1844	6271	AA	GG	1947021711
SNP_P4_168372_9616	NW_004516937.1	Scaffold1844	9616	GG	AA	1947021713
SNP_P4_168373_10652	NW_004516937.1	Scaffold1844	10652	TT	CC	1947021715
SNP_P4_168374_10710	NW_004516937.1	Scaffold1844	10710	GG	CC	1947021716
SNP_P4_168375_10977	NW_004516937.1	Scaffold1844	10977	AA	CC	1947021718
SNP_P4_168376_12434	NW_004516937.1	Scaffold1844	12434	AA	TT	1947021720
SNP_P4_168377_12452	NW_004516937.1	Scaffold1844	12452	CC	GG	1947021722
SNP_P4_168378_12702	NW_004516937.1	Scaffold1844	12702	TT	CC	1947021724
SNP_P4_168379_12717	NW_004516937.1	Scaffold1844	12717	TT	CC	1947021726
SNP_P4_168380_12728	NW_004516937.1	Scaffold1844	12728	CC	TT	1947021728
SNP_P4_168381_12745	NW_004516937.1	Scaffold1844	12745	AA	GG	1947021730
SNP_P4_168382_12805	NW_004516937.1	Scaffold1844	12805	GG	AA	1947021732
SNP_P4_168383_12816	NW_004516937.1	Scaffold1844	12816	AA	TT	1947021734
SNP_P4_168384_12819	NW_004516937.1	Scaffold1844	12819	AA	GG	1947021736
SNP_P4_168386_46627	NW_004516937.1	Scaffold1844	46627	TT	CC	1947021738
SNP_P4_168387_53918	NW_004516937.1	Scaffold1844	53918	TT	CC	1947021740
SNP_P4_168388_56158	NW_004516937.1	Scaffold1844	56158	GG	AA	1947021742
SNP_P4_168389_89549	NW_004516937.1	Scaffold1844	89549	TT	CC	1947021743
SNP_P4_168390_89555	NW_004516937.1	Scaffold1844	89555	GG	AA	1947021745
SNP_P4_168391_89558	NW_004516937.1	Scaffold1844	89558	GG	AA	1947021747
SNP_P4_168392_89559	NW_004516937.1	Scaffold1844	89559	CC	TT	1947021749
SNP_P4_168393_89577	NW_004516937.1	Scaffold1844	89577	CC	GG	1947021751
SNP_P4_168394_120928	NW_004516937.1	Scaffold1844	120928	CC	AA	1947021753
SNP_P4_168396_120998	NW_004516937.1	Scaffold1844	120998	AA	GG	1947021755
SNP_P4_168397_121126	NW_004516937.1	Scaffold1844	121126	GG	TT	1947021757
SNP_P4_168398_121128	NW_004516937.1	Scaffold1844	121128	TT	GG	1947021759
SNP_P4_168399_121176	NW_004516937.1	Scaffold1844	121176	CC	AA	1947021761
SNP_P4_168400_121191	NW_004516937.1	Scaffold1844	121191	CC	GG	1947021763
SNP_P4_168402_121470	NW_004516937.1	Scaffold1844	121470	TT	AA	1947021765

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_168404_134053	NW_004516937.1	Scaffold1844	134053	GG	TT	1947021769
SNP_P4_168405_134285	NW_004516937.1	Scaffold1844	134285	AA	GG	1947021771
SNP_P4_168406_134351	NW_004516937.1	Scaffold1844	134351	TT	AA	1947021773
SNP_P4_168407_134376	NW_004516937.1	Scaffold1844	134376	AA	TT	1947021775
SNP_P4_168408_134726	NW_004516937.1	Scaffold1844	134726	AA	GG	1947021777
SNP_P4_168409_137774	NW_004516937.1	Scaffold1844	137774	TT	AA	1947021779
SNP_P4_168410_152341	NW_004516937.1	Scaffold1844	152341	AA	CC	1947021781
SNP_P4_168411_155804	NW_004516937.1	Scaffold1844	155804	GG	AA	1947021783
SNP_P4_168412_157438	NW_004516937.1	Scaffold1844	157438	TT	CC	1947021785
SNP_P4_168413_157447	NW_004516937.1	Scaffold1844	157447	CC	TT	1947021787
SNP_P4_168414_157464	NW_004516937.1	Scaffold1844	157464	TT	GG	1947021789
SNP_P4_168415_157534	NW_004516937.1	Scaffold1844	157534	TT	CC	1947021791
SNP_P4_168416_157540	NW_004516937.1	Scaffold1844	157540	CC	AA	1947021793
SNP_P4_168417_157821	NW_004516937.1	Scaffold1844	157821	TT	AA	1947021795
SNP_P4_168418_165090	NW_004516937.1	Scaffold1844	165090	AA	GG	1947021797
SNP_P4_168419_165100	NW_004516937.1	Scaffold1844	165100	AA	TT	1947021799
SNP_P4_168421_166906	NW_004516937.1	Scaffold1844	166906	TT	CC	1947021800
SNP_P4_168422_167034	NW_004516937.1	Scaffold1844	167034	TT	GG	1947021802
SNP_P4_168423_167045	NW_004516937.1	Scaffold1844	167045	TT	CC	1947021804
SNP_P4_168424_167090	NW_004516937.1	Scaffold1844	167090	AA	GG	1947021806
SNP_P4_168425_167103	NW_004516937.1	Scaffold1844	167103	AA	GG	1947021808
SNP_P4_168426_167132	NW_004516937.1	Scaffold1844	167132	CC	TT	1947021810
SNP_P4_168427_167141	NW_004516937.1	Scaffold1844	167141	CC	TT	1947021812
SNP_P4_168428_167163	NW_004516937.1	Scaffold1844	167163	AA	TT	1947021814
SNP_P4_168429_167164	NW_004516937.1	Scaffold1844	167164	AA	TT	1947021816
SNP_P4_168431_167266	NW_004516937.1	Scaffold1844	167266	TT	AA	1947021818
SNP_P4_168432_167317	NW_004516937.1	Scaffold1844	167317	GG	TT	1947021820
SNP_P4_168433_167318	NW_004516937.1	Scaffold1844	167318	TT	GG	1947021822
SNP_P4_168434_167549	NW_004516937.1	Scaffold1844	167549	GG	TT	1947021824
SNP_P4_168435_167554	NW_004516937.1	Scaffold1844	167554	AA	GG	1947021825
SNP_P4_168436_167602	NW_004516937.1	Scaffold1844	167602	CC	TT	1947021827
SNP_P4_168437_167639	NW_004516937.1	Scaffold1844	167639	GG	TT	1947021829
SNP_P4_168438_499	NW_004516938.1	Scaffold1845	499	AA	GG	1947021831
SNP_P4_168439_523	NW_004516938.1	Scaffold1845	523	CC	TT	1947021833
SNP_P4_168441_7389	NW_004516938.1	Scaffold1845	7389	CC	TT	1947021835
SNP_P4_168444_11725	NW_004516938.1	Scaffold1845	11725	GG	TT	1947021837
SNP_P4_168445_12746	NW_004516938.1	Scaffold1845	12746	AA	GG	1947021838
SNP_P4_168446_15470	NW_004516938.1	Scaffold1845	15470	TT	CC	1947021840
SNP_P4_168447_15483	NW_004516938.1	Scaffold1845	15483	AA	GG	1947021841
SNP_P4_168448_15525	NW_004516938.1	Scaffold1845	15525	AA	CC	1947021842
SNP_P4_168449_15584	NW_004516938.1	Scaffold1845	15584	TT	CC	1947021843

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_168451_28473	NW_004516938.1	Scaffold1845	28473	GG	TT	1947021845
SNP_P4_168452_28566	NW_004516938.1	Scaffold1845	28566	AA	GG	1947021846
SNP_P4_168453_28580	NW_004516938.1	Scaffold1845	28580	TT	CC	1947021847
SNP_P4_168454_28617	NW_004516938.1	Scaffold1845	28617	GG	AA	1947021848
SNP_P4_168455_28787	NW_004516938.1	Scaffold1845	28787	CC	AA	1947021849
SNP_P4_168456_28790	NW_004516938.1	Scaffold1845	28790	AA	GG	1947021850
SNP_P4_168457_28820	NW_004516938.1	Scaffold1845	28820	AA	CC	1947021851
SNP_P4_168458_28842	NW_004516938.1	Scaffold1845	28842	CC	GG	1947021852
SNP_P4_168459_28850	NW_004516938.1	Scaffold1845	28850	TT	CC	1947021853
SNP_P4_168460_28860	NW_004516938.1	Scaffold1845	28860	GG	AA	1947021854
SNP_P4_168461_31582	NW_004516938.1	Scaffold1845	31582	AA	GG	1947021855
SNP_P4_168462_31613	NW_004516938.1	Scaffold1845	31613	AA	TT	1947021856
SNP_P4_168463_40182	NW_004516938.1	Scaffold1845	40182	GG	CC	1947021857
SNP_P4_168464_40189	NW_004516938.1	Scaffold1845	40189	AA	CC	1947021858
SNP_P4_168465_42257	NW_004516938.1	Scaffold1845	42257	GG	TT	1947021859
SNP_P4_168466_42536	NW_004516938.1	Scaffold1845	42536	TT	CC	1947021860
SNP_P4_168467_44439	NW_004516938.1	Scaffold1845	44439	GG	AA	1947021861
SNP_P4_168468_45747	NW_004516938.1	Scaffold1845	45747	TT	AA	1947021862
SNP_P4_168469_46370	NW_004516938.1	Scaffold1845	46370	AA	GG	1947021863
SNP_P4_168470_50886	NW_004516938.1	Scaffold1845	50886	CC	TT	1947021864
SNP_P4_168471_51235	NW_004516938.1	Scaffold1845	51235	AA	GG	1947021865
SNP_P4_168472_57056	NW_004516938.1	Scaffold1845	57056	TT	CC	1947021866
SNP_P4_168473_63028	NW_004516938.1	Scaffold1845	63028	GG	AA	1947021867
SNP_P4_168474_70616	NW_004516938.1	Scaffold1845	70616	AA	GG	1947021868
SNP_P4_168475_77074	NW_004516938.1	Scaffold1845	77074	AA	TT	1947021869
SNP_P4_168476_78545	NW_004516938.1	Scaffold1845	78545	AA	GG	1947021870
SNP_P4_168477_79530	NW_004516938.1	Scaffold1845	79530	TT	GG	1947021871
SNP_P4_168478_79548	NW_004516938.1	Scaffold1845	79548	TT	CC	1947021872
SNP_P4_168479_79557	NW_004516938.1	Scaffold1845	79557	CC	GG	1947021873
SNP_P4_168480_79653	NW_004516938.1	Scaffold1845	79653	AA	GG	1947021874
SNP_P4_168482_81179	NW_004516938.1	Scaffold1845	81179	TT	CC	1947021875
SNP_P4_168483_81714	NW_004516938.1	Scaffold1845	81714	AA	CC	1947021876
SNP_P4_168484_82226	NW_004516938.1	Scaffold1845	82226	AA	GG	1947021877
SNP_P4_168485_83889	NW_004516938.1	Scaffold1845	83889	GG	AA	1947021878
SNP_P4_168486_83890	NW_004516938.1	Scaffold1845	83890	GG	AA	1947021879
SNP_P4_168488_99875	NW_004516938.1	Scaffold1845	99875	TT	CC	1947021880
SNP_P4_168489_104927	NW_004516938.1	Scaffold1845	104927	GG	CC	1947021881
SNP_P4_168490_105147	NW_004516938.1	Scaffold1845	105147	AA	GG	1947021882
SNP_P4_168491_107281	NW_004516938.1	Scaffold1845	107281	TT	CC	1947021883
SNP_P4_168492_107282	NW_004516938.1	Scaffold1845	107282	GG	AA	1947021884
SNP_P4_168493_107344	NW_004516938.1	Scaffold1845	107344	AA	GG	1947021885

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_168495_119791	NW_004516938.1	Scaffold1845	119791	AA	GG	1947021887
SNP_P4_168496_126540	NW_004516938.1	Scaffold1845	126540	AA	GG	1947021888
SNP_P4_168497_126546	NW_004516938.1	Scaffold1845	126546	AA	GG	1947021889
SNP_P4_168498_127213	NW_004516938.1	Scaffold1845	127213	CC	GG	1947021890
SNP_P4_168499_127476	NW_004516938.1	Scaffold1845	127476	TT	GG	1947021891
SNP_P4_168500_127525	NW_004516938.1	Scaffold1845	127525	TT	CC	1947021892
SNP_P4_168501_127560	NW_004516938.1	Scaffold1845	127560	CC	TT	1947021893
SNP_P4_168502_127576	NW_004516938.1	Scaffold1845	127576	CC	TT	1947021894
SNP_P4_168503_127584	NW_004516938.1	Scaffold1845	127584	AA	GG	1947021895
SNP_P4_168504_132415	NW_004516938.1	Scaffold1845	132415	CC	TT	1947021896
SNP_P4_168505_132905	NW_004516938.1	Scaffold1845	132905	AA	GG	1947021897
SNP_P4_168506_132916	NW_004516938.1	Scaffold1845	132916	CC	TT	1947021898
SNP_P4_168507_870	NW_004516940.1	Scaffold1847	870	TT	CC	1947021899
SNP_P4_168508_908	NW_004516940.1	Scaffold1847	908	TT	AA	1947021900
SNP_P4_168509_1023	NW_004516940.1	Scaffold1847	1023	AA	CC	1947021901
SNP_P4_168510_1304	NW_004516940.1	Scaffold1847	1304	AA	CC	1947021902
SNP_P4_168511_5231	NW_004516940.1	Scaffold1847	5231	AA	GG	1947021903
SNP_P4_168512_5255	NW_004516940.1	Scaffold1847	5255	TT	CC	1947021904
SNP_P4_168513_5299	NW_004516940.1	Scaffold1847	5299	CC	TT	1947021905
SNP_P4_168514_5318	NW_004516940.1	Scaffold1847	5318	GG	AA	1947021906
SNP_P4_168515_932	NW_004516941.1	Scaffold1848	932	CC	TT	1947021907
SNP_P4_168516_3470	NW_004516941.1	Scaffold1848	3470	AA	TT	1947021908
SNP_P4_168517_3503	NW_004516941.1	Scaffold1848	3503	CC	AA	1947021909
SNP_P4_168518_3507	NW_004516941.1	Scaffold1848	3507	AA	GG	1947021910
SNP_P4_168520_4674	NW_004516941.1	Scaffold1848	4674	GG	AA	1947021911
SNP_P4_168521_10934	NW_004516941.1	Scaffold1848	10934	GG	CC	1947021912
SNP_P4_168522_10951	NW_004516941.1	Scaffold1848	10951	GG	TT	1947021913
SNP_P4_168523_11354	NW_004516941.1	Scaffold1848	11354	TT	CC	1947021914
SNP_P4_168524_12161	NW_004516941.1	Scaffold1848	12161	AA	GG	1947021916
SNP_P4_168525_12166	NW_004516941.1	Scaffold1848	12166	TT	CC	1947021918
SNP_P4_168526_12207	NW_004516941.1	Scaffold1848	12207	AA	GG	1947021920
SNP_P4_168527_12213	NW_004516941.1	Scaffold1848	12213	CC	TT	1947021922
SNP_P4_168528_12260	NW_004516941.1	Scaffold1848	12260	TT	CC	1947021924
SNP_P4_168529_12311	NW_004516941.1	Scaffold1848	12311	TT	AA	1947021926
SNP_P4_168530_12434	NW_004516941.1	Scaffold1848	12434	GG	AA	1947021928
SNP_P4_168531_12436	NW_004516941.1	Scaffold1848	12436	CC	GG	1947021929
SNP_P4_168532_64	NW_004516943.1	Scaffold1851	64	AA	CC	1947021931
SNP_P4_168533_121	NW_004516943.1	Scaffold1851	121	TT	AA	1947021933
SNP_P4_168534_306	NW_004516943.1	Scaffold1851	306	TT	CC	1947021935
SNP_P4_168535_312	NW_004516943.1	Scaffold1851	312	AA	GG	1947021937
SNP_P4_168536_385	NW_004516943.1	Scaffold1851	385	TT	CC	1947021939

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_168539_42824	NW_004516944.1	Scaffold1852	42824	CC	TT	1947021943
SNP_P4_168540_43156	NW_004516944.1	Scaffold1852	43156	CC	TT	1947021945
SNP_P4_168541_43157	NW_004516944.1	Scaffold1852	43157	GG	TT	1947021946
SNP_P4_168542_43161	NW_004516944.1	Scaffold1852	43161	GG	CC	1947021948
SNP_P4_168543_43162	NW_004516944.1	Scaffold1852	43162	GG	AA	1947021950
SNP_P4_168544_43183	NW_004516944.1	Scaffold1852	43183	CC	TT	1947021952
SNP_P4_168545_43192	NW_004516944.1	Scaffold1852	43192	TT	GG	1947021954
SNP_P4_168546_43209	NW_004516944.1	Scaffold1852	43209	TT	CC	1947021956
SNP_P4_168547_43307	NW_004516944.1	Scaffold1852	43307	AA	GG	1947021958
SNP_P4_168548_57735	NW_004516944.1	Scaffold1852	57735	GG	AA	1947021960
SNP_P4_168549_78542	NW_004516944.1	Scaffold1852	78542	AA	TT	1947021962
SNP_P4_168550_87042	NW_004516944.1	Scaffold1852	87042	GG	AA	1947021964
SNP_P4_168551_87043	NW_004516944.1	Scaffold1852	87043	TT	GG	1947021966
SNP_P4_168552_93824	NW_004516944.1	Scaffold1852	93824	GG	TT	1947021968
SNP_P4_168553_93832	NW_004516944.1	Scaffold1852	93832	AA	GG	1947021970
SNP_P4_168554_93835	NW_004516944.1	Scaffold1852	93835	AA	GG	1947021972
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SNP_P4_168556_94239	NW_004516944.1	Scaffold1852	94239	TT	CC	1947021975
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SNP_P4_168560_94281	NW_004516944.1	Scaffold1852	94281	TT	CC	1947021981
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SNP_P4_168562_94298	NW_004516944.1	Scaffold1852	94298	GG	CC	1947021985
SNP_P4_168563_94303	NW_004516944.1	Scaffold1852	94303	CC	TT	1947021987
SNP_P4_168564_94307	NW_004516944.1	Scaffold1852	94307	TT	CC	1947021989
SNP_P4_168565_94340	NW_004516944.1	Scaffold1852	94340	TT	CC	1947021991
SNP_P4_168567_94420	NW_004516944.1	Scaffold1852	94420	CC	TT	1947021993
SNP_P4_168568_94454	NW_004516944.1	Scaffold1852	94454	AA	GG	1947021995
SNP_P4_168570_94587	NW_004516944.1	Scaffold1852	94587	TT	CC	1947021996
SNP_P4_168571_94670	NW_004516944.1	Scaffold1852	94670	AA	GG	1947021998
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SNP_P4_168582_95167	NW_004516944.1	Scaffold1852	95167	TT	GG	1947022016
SNP_P4_168583_95191	NW_004516944.1	Scaffold1852	95191	TT	CC	1947022018
SNP_P4_168584_95249	NW_004516944.1	Scaffold1852	95249	GG	TT	1947022020

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_168585_95335	NW_004516944.1	Scaffold1852	95335	TT	GG	1947022022
SNP_P4_168586_95380	NW_004516944.1	Scaffold1852	95380	TT	GG	1947022024
SNP_P4_168589_101421	NW_004516944.1	Scaffold1852	101421	TT	CC	1947022025
SNP_P4_168590_101508	NW_004516944.1	Scaffold1852	101508	AA	GG	1947022027
SNP_P4_168591_101525	NW_004516944.1	Scaffold1852	101525	CC	TT	1947022029
SNP_P4_168592_101606	NW_004516944.1	Scaffold1852	101606	CC	AA	1947022031
SNP_P4_168593_101615	NW_004516944.1	Scaffold1852	101615	GG	AA	1947022033
SNP_P4_168595_101782	NW_004516944.1	Scaffold1852	101782	AA	CC	1947022035
SNP_P4_168596_101791	NW_004516944.1	Scaffold1852	101791	CC	TT	1947022037
SNP_P4_168597_101797	NW_004516944.1	Scaffold1852	101797	TT	AA	1947022039
SNP_P4_168598_101799	NW_004516944.1	Scaffold1852	101799	TT	GG	1947022041
SNP_P4_168599_101850	NW_004516944.1	Scaffold1852	101850	AA	CC	1947022043
SNP_P4_168600_101855	NW_004516944.1	Scaffold1852	101855	AA	GG	1947022045
SNP_P4_168601_101858	NW_004516944.1	Scaffold1852	101858	GG	AA	1947022046
SNP_P4_168602_101859	NW_004516944.1	Scaffold1852	101859	TT	CC	1947022048
SNP_P4_168603_101955	NW_004516944.1	Scaffold1852	101955	TT	AA	1947022050
SNP_P4_168604_101979	NW_004516944.1	Scaffold1852	101979	GG	AA	1947022052
SNP_P4_168605_101990	NW_004516944.1	Scaffold1852	101990	GG	AA	1947022054
SNP_P4_168606_102044	NW_004516944.1	Scaffold1852	102044	AA	GG	1947022056
SNP_P4_168607_102048	NW_004516944.1	Scaffold1852	102048	AA	GG	1947022058
SNP_P4_168608_102060	NW_004516944.1	Scaffold1852	102060	AA	CC	1947022060
SNP_P4_168609_102069	NW_004516944.1	Scaffold1852	102069	CC	TT	1947022062
SNP_P4_168610_102084	NW_004516944.1	Scaffold1852	102084	GG	AA	1947022064
SNP_P4_168611_102087	NW_004516944.1	Scaffold1852	102087	AA	TT	1947022066
SNP_P4_168612_102089	NW_004516944.1	Scaffold1852	102089	AA	CC	1947022068
SNP_P4_168613_102130	NW_004516944.1	Scaffold1852	102130	CC	TT	1947022070
SNP_P4_168614_102172	NW_004516944.1	Scaffold1852	102172	TT	CC	1947022072
SNP_P4_168615_102199	NW_004516944.1	Scaffold1852	102199	GG	AA	1947022074
SNP_P4_168616_102217	NW_004516944.1	Scaffold1852	102217	GG	CC	1947022076
SNP_P4_168617_102237	NW_004516944.1	Scaffold1852	102237	TT	CC	1947022078
SNP_P4_168618_102239	NW_004516944.1	Scaffold1852	102239	GG	AA	1947022080
SNP_P4_168620_102907	NW_004516944.1	Scaffold1852	102907	TT	CC	1947022082
SNP_P4_168621_102936	NW_004516944.1	Scaffold1852	102936	GG	AA	1947022084
SNP_P4_168623_103011	NW_004516944.1	Scaffold1852	103011	TT	AA	1947022086
SNP_P4_168624_103023	NW_004516944.1	Scaffold1852	103023	CC	TT	1947022088
SNP_P4_168625_103101	NW_004516944.1	Scaffold1852	103101	CC	AA	1947022090
SNP_P4_168626_103133	NW_004516944.1	Scaffold1852	103133	AA	TT	1947022092
SNP_P4_168627_103134	NW_004516944.1	Scaffold1852	103134	TT	AA	1947022094
SNP_P4_168628_103192	NW_004516944.1	Scaffold1852	103192	TT	AA	1947022096
SNP_P4_168630_103483	NW_004516944.1	Scaffold1852	103483	AA	TT	1947022098
SNP_P4_168631_103499	NW_004516944.1	Scaffold1852	103499	TT	CC	1947022100
SNP_P4_168633_103552	NW_004516944.1	Scaffold1852	103552	CC	TT	1947022102

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_168635_103577	NW_004516944.1	Scaffold1852	103577	GG	AA	1947022106
SNP_P4_168636_103630	NW_004516944.1	Scaffold1852	103630	AA	GG	1947022108
SNP_P4_168637_104203	NW_004516944.1	Scaffold1852	104203	GG	TT	1947022110
SNP_P4_168638_104228	NW_004516944.1	Scaffold1852	104228	CC	AA	1947022112
SNP_P4_168639_6550	NW_004516945.1	Scaffold1854	6550	GG	TT	1947022114
SNP_P4_168640_7105	NW_004516945.1	Scaffold1854	7105	GG	TT	1947022116
SNP_P4_168641_7125	NW_004516945.1	Scaffold1854	7125	TT	CC	1947022117
SNP_P4_168642_7128	NW_004516945.1	Scaffold1854	7128	GG	AA	1947022119
SNP_P4_168643_10528	NW_004516945.1	Scaffold1854	10528	TT	AA	1947022121
SNP_P4_168644_35464	NW_004516945.1	Scaffold1854	35464	AA	GG	1947022123
SNP_P4_168645_39330	NW_004516945.1	Scaffold1854	39330	GG	TT	1947022125
SNP_P4_168646_39363	NW_004516945.1	Scaffold1854	39363	TT	GG	1947022127
SNP_P4_168647_39662	NW_004516945.1	Scaffold1854	39662	CC	GG	1947022129
SNP_P4_168648_39797	NW_004516945.1	Scaffold1854	39797	TT	CC	1947022131
SNP_P4_168649_39813	NW_004516945.1	Scaffold1854	39813	AA	TT	1947022133
SNP_P4_168650_49964	NW_004516945.1	Scaffold1854	49964	AA	GG	1947022135
SNP_P4_168651_50045	NW_004516945.1	Scaffold1854	50045	GG	AA	1947022137
SNP_P4_168652_5889	NW_004516946.1	Scaffold1855	5889	TT	CC	1947022139
SNP_P4_168653_6543	NW_004516947.1	Scaffold1856	6543	CC	TT	1947022141
SNP_P4_168654_6790	NW_004516947.1	Scaffold1856	6790	GG	AA	1947022143
SNP_P4_168655_7246	NW_004516947.1	Scaffold1856	7246	CC	TT	1947022144
SNP_P4_168656_12318	NW_004516951.1	Scaffold1861	12318	AA	CC	1947022146
SNP_P4_168657_12407	NW_004516951.1	Scaffold1861	12407	CC	AA	1947022148
SNP_P4_168658_12439	NW_004516951.1	Scaffold1861	12439	AA	GG	1947022150
SNP_P4_168659_12446	NW_004516951.1	Scaffold1861	12446	GG	AA	1947022152
SNP_P4_168660_12478	NW_004516951.1	Scaffold1861	12478	TT	CC	1947022154
SNP_P4_168661_12688	NW_004516951.1	Scaffold1861	12688	TT	CC	1947022156
SNP_P4_168662_12707	NW_004516951.1	Scaffold1861	12707	TT	CC	1947022158
SNP_P4_168663_12778	NW_004516951.1	Scaffold1861	12778	TT	CC	1947022160
SNP_P4_168664_12790	NW_004516951.1	Scaffold1861	12790	CC	AA	1947022162
SNP_P4_168665_12793	NW_004516951.1	Scaffold1861	12793	AA	GG	1947022164
SNP_P4_168666_12821	NW_004516951.1	Scaffold1861	12821	TT	CC	1947022166
SNP_P4_168667_458	NW_004516952.1	Scaffold1862	458	AA	CC	1947022168
SNP_P4_168668_956	NW_004516952.1	Scaffold1862	956	TT	GG	1947022170
SNP_P4_168669_1011	NW_004516952.1	Scaffold1862	1011	TT	AA	1947022172
SNP_P4_168670_1095	NW_004516952.1	Scaffold1862	1095	CC	AA	1947022173
SNP_P4_168671_2884	NW_004516953.1	Scaffold1864	2884	TT	CC	1947022175
SNP_P4_168673_3033	NW_004516953.1	Scaffold1864	3033	AA	GG	1947022177
SNP_P4_168674_3585	NW_004516953.1	Scaffold1864	3585	GG	AA	1947022179
SNP_P4_168676_3785	NW_004516953.1	Scaffold1864	3785	CC	TT	1947022181
SNP_P4_168677_3789	NW_004516953.1	Scaffold1864	3789	TT	CC	1947022183

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_168679_3808	NW_004516953.1	Scaffold1864	3808	AA	GG	1947022187
SNP_P4_168680_3970	NW_004516953.1	Scaffold1864	3970	TT	CC	1947022189
SNP_P4_168681_4138	NW_004516953.1	Scaffold1864	4138	GG	TT	1947022191
SNP_P4_168682_4160	NW_004516953.1	Scaffold1864	4160	AA	GG	1947022192
SNP_P4_168684_4337	NW_004516953.1	Scaffold1864	4337	TT	AA	1947022193
SNP_P4_168685_4362	NW_004516953.1	Scaffold1864	4362	AA	GG	1947022194
SNP_P4_168687_4619	NW_004516953.1	Scaffold1864	4619	CC	TT	1947022195
SNP_P4_168689_4764	NW_004516953.1	Scaffold1864	4764	TT	CC	1947022196
SNP_P4_168690_4791	NW_004516953.1	Scaffold1864	4791	CC	GG	1947022197
SNP_P4_168691_4893	NW_004516953.1	Scaffold1864	4893	CC	TT	1947022198
SNP_P4_168692_4901	NW_004516953.1	Scaffold1864	4901	CC	TT	1947022199
SNP_P4_168693_4973	NW_004516953.1	Scaffold1864	4973	GG	AA	1947022200
SNP_P4_168694_4984	NW_004516953.1	Scaffold1864	4984	GG	AA	1947022201
SNP_P4_168695_5028	NW_004516953.1	Scaffold1864	5028	GG	TT	1947022202
SNP_P4_168697_5292	NW_004516953.1	Scaffold1864	5292	GG	AA	1947022203
SNP_P4_168698_5300	NW_004516953.1	Scaffold1864	5300	TT	AA	1947022204
SNP_P4_168699_5382	NW_004516953.1	Scaffold1864	5382	TT	CC	1947022205
SNP_P4_168700_5523	NW_004516953.1	Scaffold1864	5523	TT	AA	1947022206
SNP_P4_168702_5603	NW_004516953.1	Scaffold1864	5603	CC	TT	1947022207
SNP_P4_168703_5613	NW_004516953.1	Scaffold1864	5613	CC	TT	1947022208
SNP_P4_168704_5673	NW_004516953.1	Scaffold1864	5673	CC	AA	1947022209
SNP_P4_168705_5700	NW_004516953.1	Scaffold1864	5700	CC	TT	1947022210
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SNP_P4_168707_5716	NW_004516953.1	Scaffold1864	5716	TT	CC	1947022212
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SNP_P4_168710_5758	NW_004516953.1	Scaffold1864	5758	TT	CC	1947022215
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SNP_P4_168713_5848	NW_004516953.1	Scaffold1864	5848	CC	TT	1947022219
SNP_P4_168714_5875	NW_004516953.1	Scaffold1864	5875	TT	GG	1947022221
SNP_P4_168718_6035	NW_004516953.1	Scaffold1864	6035	CC	AA	1947022223
SNP_P4_168719_6058	NW_004516953.1	Scaffold1864	6058	CC	AA	1947022225
SNP_P4_168720_6163	NW_004516953.1	Scaffold1864	6163	AA	GG	1947022227
SNP_P4_168721_6194	NW_004516953.1	Scaffold1864	6194	AA	CC	1947022228
SNP_P4_168722_6220	NW_004516953.1	Scaffold1864	6220	GG	AA	1947022230
SNP_P4_168724_6306	NW_004516953.1	Scaffold1864	6306	GG	TT	1947022232
SNP_P4_168725_6314	NW_004516953.1	Scaffold1864	6314	GG	AA	1947022234
SNP_P4_168726_6401	NW_004516953.1	Scaffold1864	6401	TT	GG	1947022236
SNP_P4_168727_6452	NW_004516953.1	Scaffold1864	6452	GG	AA	1947022238
SNP_P4_168728_6916	NW_004516953.1	Scaffold1864	6916	TT	GG	1947022240

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_168730_10269	NW_004516953.1	Scaffold1864	10269	TT	AA	1947022244
SNP_P4_168731_10359	NW_004516953.1	Scaffold1864	10359	CC	TT	1947022245
SNP_P4_168732_10477	NW_004516953.1	Scaffold1864	10477	CC	AA	1947022247
SNP_P4_168733_10555	NW_004516953.1	Scaffold1864	10555	AA	GG	1947022249
SNP_P4_168734_10600	NW_004516953.1	Scaffold1864	10600	TT	GG	1947022251
SNP_P4_168735_10736	NW_004516953.1	Scaffold1864	10736	CC	TT	1947022253
SNP_P4_168736_10746	NW_004516953.1	Scaffold1864	10746	CC	TT	1947022255
SNP_P4_168737_10776	NW_004516953.1	Scaffold1864	10776	CC	TT	1947022257
SNP_P4_168738_10841	NW_004516953.1	Scaffold1864	10841	TT	CC	1947022259
SNP_P4_168739_10856	NW_004516953.1	Scaffold1864	10856	AA	TT	1947022260
SNP_P4_168740_10858	NW_004516953.1	Scaffold1864	10858	TT	CC	1947022262
SNP_P4_168741_11038	NW_004516953.1	Scaffold1864	11038	CC	TT	1947022264
SNP_P4_168742_11080	NW_004516953.1	Scaffold1864	11080	AA	CC	1947022266
SNP_P4_168743_11104	NW_004516953.1	Scaffold1864	11104	TT	AA	1947022268
SNP_P4_168744_11176	NW_004516953.1	Scaffold1864	11176	TT	AA	1947022270
SNP_P4_168745_11180	NW_004516953.1	Scaffold1864	11180	AA	CC	1947022272
SNP_P4_168746_11218	NW_004516953.1	Scaffold1864	11218	TT	AA	1947022274
SNP_P4_168747_11407	NW_004516953.1	Scaffold1864	11407	AA	GG	1947022276
SNP_P4_168748_11473	NW_004516953.1	Scaffold1864	11473	CC	TT	1947022278
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SNP_P4_168753_12027	NW_004516953.1	Scaffold1864	12027	GG	CC	1947022287
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SNP_P4_168755_14542	NW_004516953.1	Scaffold1864	14542	GG	AA	1947022291
SNP_P4_168757_14875	NW_004516953.1	Scaffold1864	14875	AA	GG	1947022293
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SNP_P4_168760_15049	NW_004516953.1	Scaffold1864	15049	CC	TT	1947022297
SNP_P4_168761_15095	NW_004516953.1	Scaffold1864	15095	GG	TT	1947022299
SNP_P4_168762_15100	NW_004516953.1	Scaffold1864	15100	TT	GG	1947022301
SNP_P4_168763_15112	NW_004516953.1	Scaffold1864	15112	GG	AA	1947022303
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SNP_P4_168766_15564	NW_004516953.1	Scaffold1864	15564	CC	AA	1947022308
SNP_P4_168767_17433	NW_004516953.1	Scaffold1864	17433	AA	TT	1947022310
SNP_P4_168768_19613	NW_004516953.1	Scaffold1864	19613	CC	TT	1947022312
SNP_P4_168769_19788	NW_004516953.1	Scaffold1864	19788	TT	AA	1947022314
SNP_P4_168770_19823	NW_004516953.1	Scaffold1864	19823	GG	AA	1947022316
SNP_P4_168771_19862	NW_004516953.1	Scaffold1864	19862	AA	CC	1947022318
SNP_P4_168772_20019	NW_004516953.1	Scaffold1864	20019	AA	TT	1947022320

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_168773_20371	NW_004516953.1	Scaffold1864	20371	GG	AA	1947022321
SNP_P4_168775_20537	NW_004516953.1	Scaffold1864	20537	GG	AA	1947022323
SNP_P4_168776_4320	NW_004516955.1	Scaffold1866	4320	CC	TT	1947022325
SNP_P4_168777_4335	NW_004516955.1	Scaffold1866	4335	TT	CC	1947022327
SNP_P4_168778_4341	NW_004516955.1	Scaffold1866	4341	CC	TT	1947022329
SNP_P4_168779_4357	NW_004516955.1	Scaffold1866	4357	CC	TT	1947022331
SNP_P4_168780_4475	NW_004516955.1	Scaffold1866	4475	GG	AA	1947022333
SNP_P4_168781_4480	NW_004516955.1	Scaffold1866	4480	AA	GG	1947022335
SNP_P4_168782_4510	NW_004516955.1	Scaffold1866	4510	AA	GG	1947022337
SNP_P4_168783_4520	NW_004516955.1	Scaffold1866	4520	AA	GG	1947022339
SNP_P4_168784_4523	NW_004516955.1	Scaffold1866	4523	AA	GG	1947022341
SNP_P4_168785_4592	NW_004516955.1	Scaffold1866	4592	CC	TT	1947022343
SNP_P4_168786_4660	NW_004516955.1	Scaffold1866	4660	GG	TT	1947022345
SNP_P4_168787_4688	NW_004516955.1	Scaffold1866	4688	AA	TT	1947022347
SNP_P4_168788_4745	NW_004516955.1	Scaffold1866	4745	CC	TT	1947022349
SNP_P4_168789_23105	NW_004516955.1	Scaffold1866	23105	GG	AA	1947022351
SNP_P4_168790_25534	NW_004516955.1	Scaffold1866	25534	TT	AA	1947022353
SNP_P4_168791_35242	NW_004516955.1	Scaffold1866	35242	TT	CC	1947022355
SNP_P4_168793_42409	NW_004516955.1	Scaffold1866	42409	TT	CC	1947022357
SNP_P4_168794_42432	NW_004516955.1	Scaffold1866	42432	GG	AA	1947022359
SNP_P4_168795_42669	NW_004516955.1	Scaffold1866	42669	CC	GG	1947022361
SNP_P4_168797_44369	NW_004516955.1	Scaffold1866	44369	TT	CC	1947022363
SNP_P4_168798_50333	NW_004516955.1	Scaffold1866	50333	AA	GG	1947022365
SNP_P4_168799_62679	NW_004516955.1	Scaffold1866	62679	TT	CC	1947022367
SNP_P4_168800_62718	NW_004516955.1	Scaffold1866	62718	GG	AA	1947022369
SNP_P4_168801_62759	NW_004516955.1	Scaffold1866	62759	TT	GG	1947022371
SNP_P4_168803_62805	NW_004516955.1	Scaffold1866	62805	TT	CC	1947022373
SNP_P4_168804_62850	NW_004516955.1	Scaffold1866	62850	TT	CC	1947022375
SNP_P4_168805_62875	NW_004516955.1	Scaffold1866	62875	AA	GG	1947022377
SNP_P4_168806_62883	NW_004516955.1	Scaffold1866	62883	CC	TT	1947022379
SNP_P4_168807_62916	NW_004516955.1	Scaffold1866	62916	CC	AA	1947022381
SNP_P4_168808_62938	NW_004516955.1	Scaffold1866	62938	AA	CC	1947022383
SNP_P4_168809_62962	NW_004516955.1	Scaffold1866	62962	AA	CC	1947022385
SNP_P4_168810_63070	NW_004516955.1	Scaffold1866	63070	TT	AA	1947022387
SNP_P4_168811_71767	NW_004516955.1	Scaffold1866	71767	GG	AA	1947022389
SNP_P4_168812_73755	NW_004516955.1	Scaffold1866	73755	GG	AA	1947022390
SNP_P4_168814_100443	NW_004516955.1	Scaffold1866	100443	TT	CC	1947022392
SNP_P4_168815_100450	NW_004516955.1	Scaffold1866	100450	GG	AA	1947022394
SNP_P4_168816_101009	NW_004516955.1	Scaffold1866	101009	AA	GG	1947022396
SNP_P4_168817_103235	NW_004516955.1	Scaffold1866	103235	CC	TT	1947022398
SNP_P4_168818_103242	NW_004516955.1	Scaffold1866	103242	TT	AA	1947022400
SNP_P4_168819_103255	NW_004516955.1	Scaffold1866	103255	TT	CC	1947022402

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_168822_115706	NW_004516955.1	Scaffold1866	115706	TT	AA	1947022406
SNP_P4_168824_135305	NW_004516955.1	Scaffold1866	135305	CC	TT	1947022408
SNP_P4_168826_142034	NW_004516955.1	Scaffold1866	142034	GG	AA	1947022410
SNP_P4_168827_142039	NW_004516955.1	Scaffold1866	142039	AA	GG	1947022411
SNP_P4_168828_142095	NW_004516955.1	Scaffold1866	142095	CC	TT	1947022413
SNP_P4_168829_142130	NW_004516955.1	Scaffold1866	142130	GG	AA	1947022415
SNP_P4_168830_142143	NW_004516955.1	Scaffold1866	142143	GG	AA	1947022417
SNP_P4_168832_12812	NW_004516956.1	Scaffold1867	12812	TT	CC	1947022419
SNP_P4_168833_50169	NW_004516956.1	Scaffold1867	50169	AA	CC	1947022421
SNP_P4_168834_58984	NW_004516956.1	Scaffold1867	58984	GG	TT	1947022423
SNP_P4_168835_59637	NW_004516956.1	Scaffold1867	59637	CC	GG	1947022425
SNP_P4_168836_66846	NW_004516956.1	Scaffold1867	66846	GG	CC	1947022427
SNP_P4_168837_70977	NW_004516956.1	Scaffold1867	70977	TT	CC	1947022429
SNP_P4_168838_70991	NW_004516956.1	Scaffold1867	70991	CC	TT	1947022431
SNP_P4_168839_71006	NW_004516956.1	Scaffold1867	71006	GG	AA	1947022433
SNP_P4_168841_71018	NW_004516956.1	Scaffold1867	71018	TT	CC	1947022435
SNP_P4_168842_71037	NW_004516956.1	Scaffold1867	71037	AA	CC	1947022437
SNP_P4_168843_71038	NW_004516956.1	Scaffold1867	71038	CC	AA	1947022439
SNP_P4_168844_90129	NW_004516956.1	Scaffold1867	90129	AA	CC	1947022441
SNP_P4_168845_90503	NW_004516956.1	Scaffold1867	90503	CC	GG	1947022443
SNP_P4_168846_90521	NW_004516956.1	Scaffold1867	90521	GG	TT	1947022445
SNP_P4_168848_91836	NW_004516956.1	Scaffold1867	91836	CC	AA	1947022447
SNP_P4_168849_91841	NW_004516956.1	Scaffold1867	91841	TT	AA	1947022449
SNP_P4_168850_95399	NW_004516956.1	Scaffold1867	95399	TT	AA	1947022451
SNP_P4_168851_95410	NW_004516956.1	Scaffold1867	95410	TT	AA	1947022453
SNP_P4_168852_95423	NW_004516956.1	Scaffold1867	95423	AA	TT	1947022455
SNP_P4_168853_95428	NW_004516956.1	Scaffold1867	95428	TT	GG	1947022457
SNP_P4_168854_95443	NW_004516956.1	Scaffold1867	95443	CC	TT	1947022459
SNP_P4_168855_96059	NW_004516956.1	Scaffold1867	96059	TT	CC	1947022461
SNP_P4_168856_96083	NW_004516956.1	Scaffold1867	96083	TT	AA	1947022463
SNP_P4_168857_96230	NW_004516956.1	Scaffold1867	96230	TT	CC	1947022465
SNP_P4_168858_96424	NW_004516956.1	Scaffold1867	96424	AA	GG	1947022467
SNP_P4_168859_96746	NW_004516956.1	Scaffold1867	96746	CC	TT	1947022469
SNP_P4_168860_96774	NW_004516956.1	Scaffold1867	96774	GG	AA	1947022470
SNP_P4_168861_104938	NW_004516956.1	Scaffold1867	104938	TT	AA	1947022472
SNP_P4_168862_104942	NW_004516956.1	Scaffold1867	104942	GG	CC	1947022474
SNP_P4_168863_104955	NW_004516956.1	Scaffold1867	104955	GG	CC	1947022476
SNP_P4_168864_106103	NW_004516956.1	Scaffold1867	106103	CC	AA	1947022478
SNP_P4_168865_111323	NW_004516956.1	Scaffold1867	111323	GG	TT	1947022480
SNP_P4_168866_133676	NW_004516956.1	Scaffold1867	133676	CC	GG	1947022482
SNP_P4_168867_161085	NW_004516956.1	Scaffold1867	161085	CC	TT	1947022484

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_168869_163285	NW_004516956.1	Scaffold1867	163285	AA	CC	1947022488
SNP_P4_168870_163455	NW_004516956.1	Scaffold1867	163455	TT	CC	1947022490
SNP_P4_168871_163467	NW_004516956.1	Scaffold1867	163467	AA	GG	1947022492
SNP_P4_168872_164369	NW_004516956.1	Scaffold1867	164369	CC	TT	1947022494
SNP_P4_168873_164390	NW_004516956.1	Scaffold1867	164390	CC	AA	1947022496
SNP_P4_168874_172188	NW_004516956.1	Scaffold1867	172188	AA	TT	1947022498
SNP_P4_168875_172519	NW_004516956.1	Scaffold1867	172519	AA	TT	1947022500
SNP_P4_168876_172572	NW_004516956.1	Scaffold1867	172572	AA	TT	1947022502
SNP_P4_168877_196848	NW_004516956.1	Scaffold1867	196848	TT	GG	1947022503
SNP_P4_168879_214970	NW_004516956.1	Scaffold1867	214970	AA	CC	1947022505
SNP_P4_168880_226666	NW_004516956.1	Scaffold1867	226666	AA	GG	1947022507
SNP_P4_168882_229447	NW_004516956.1	Scaffold1867	229447	CC	TT	1947022509
SNP_P4_168883_233738	NW_004516956.1	Scaffold1867	233738	TT	CC	1947022511
SNP_P4_168884_237465	NW_004516956.1	Scaffold1867	237465	GG	AA	1947022513
SNP_P4_168885_237494	NW_004516956.1	Scaffold1867	237494	CC	TT	1947022515
SNP_P4_168886_237506	NW_004516956.1	Scaffold1867	237506	AA	CC	1947022517
SNP_P4_168887_237510	NW_004516956.1	Scaffold1867	237510	CC	TT	1947022519
SNP_P4_168888_237520	NW_004516956.1	Scaffold1867	237520	TT	CC	1947022521
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SNP_P4_168892_237578	NW_004516956.1	Scaffold1867	237578	AA	CC	1947022529
SNP_P4_168893_237592	NW_004516956.1	Scaffold1867	237592	TT	CC	1947022530
SNP_P4_168894_237617	NW_004516956.1	Scaffold1867	237617	CC	TT	1947022532
SNP_P4_168895_237644	NW_004516956.1	Scaffold1867	237644	AA	GG	1947022534
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SNP_P4_168897_237661	NW_004516956.1	Scaffold1867	237661	AA	GG	1947022538
SNP_P4_168898_237662	NW_004516956.1	Scaffold1867	237662	TT	AA	1947022540
SNP_P4_168899_237713	NW_004516956.1	Scaffold1867	237713	TT	CC	1947022542
SNP_P4_168900_237715	NW_004516956.1	Scaffold1867	237715	AA	CC	1947022544
SNP_P4_168901_237881	NW_004516956.1	Scaffold1867	237881	TT	CC	1947022546
SNP_P4_168902_238648	NW_004516956.1	Scaffold1867	238648	TT	CC	1947022548
SNP_P4_168903_257111	NW_004516956.1	Scaffold1867	257111	AA	TT	1947022550
SNP_P4_168904_310647	NW_004516956.1	Scaffold1867	310647	TT	CC	1947022552
SNP_P4_168905_314157	NW_004516956.1	Scaffold1867	314157	TT	CC	1947022554
SNP_P4_168906_314805	NW_004516956.1	Scaffold1867	314805	AA	GG	1947022556
SNP_P4_168907_316217	NW_004516956.1	Scaffold1867	316217	GG	TT	1947022557
SNP_P4_168908_336289	NW_004516956.1	Scaffold1867	336289	AA	GG	1947022559
SNP_P4_168909_64	NW_004516958.1	Scaffold1869	64	AA	GG	1947022561
SNP_P4_168910_74	NW_004516958.1	Scaffold1869	74	CC	TT	1947022563
SNP_P4_168911_419	NW_004516958.1	Scaffold1869	419	TT	GG	1947022565

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_168913_569	NW_004516958.1	Scaffold1869	569	TT	AA	1947022569
SNP_P4_168914_625	NW_004516958.1	Scaffold1869	625	GG	CC	1947022571
SNP_P4_168915_647	NW_004516958.1	Scaffold1869	647	GG	AA	1947022573
SNP_P4_168916_666	NW_004516958.1	Scaffold1869	666	CC	TT	1947022575
SNP_P4_168917_840	NW_004516958.1	Scaffold1869	840	AA	GG	1947022577
SNP_P4_168918_1393	NW_004516958.1	Scaffold1869	1393	TT	CC	1947022579
SNP_P4_168919_1480	NW_004516958.1	Scaffold1869	1480	TT	CC	1947022581
SNP_P4_168920_1484	NW_004516958.1	Scaffold1869	1484	AA	TT	1947022583
SNP_P4_168921_1497	NW_004516958.1	Scaffold1869	1497	TT	CC	1947022585
SNP_P4_168922_1550	NW_004516958.1	Scaffold1869	1550	GG	CC	1947022587
SNP_P4_168923_1930	NW_004516958.1	Scaffold1869	1930	CC	TT	1947022589
SNP_P4_168924_1987	NW_004516958.1	Scaffold1869	1987	AA	CC	1947022590
SNP_P4_168925_1994	NW_004516958.1	Scaffold1869	1994	CC	AA	1947022592
SNP_P4_168926_1995	NW_004516958.1	Scaffold1869	1995	CC	TT	1947022594
SNP_P4_168927_2083	NW_004516958.1	Scaffold1869	2083	AA	GG	1947022596
SNP_P4_168928_8062	NW_004516958.1	Scaffold1869	8062	AA	TT	1947022598
SNP_P4_168929_8107	NW_004516958.1	Scaffold1869	8107	GG	AA	1947022600
SNP_P4_168930_8198	NW_004516958.1	Scaffold1869	8198	CC	TT	1947022602
SNP_P4_168931_11155	NW_004516958.1	Scaffold1869	11155	GG	AA	1947022604
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SNP_P4_168933_12600	NW_004516958.1	Scaffold1869	12600	GG	CC	1947022608
SNP_P4_168934_12686	NW_004516958.1	Scaffold1869	12686	CC	AA	1947022610
SNP_P4_168935_12817	NW_004516958.1	Scaffold1869	12817	AA	GG	1947022612
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SNP_P4_168937_12867	NW_004516958.1	Scaffold1869	12867	CC	TT	1947022615
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SNP_P4_168939_13823	NW_004516958.1	Scaffold1869	13823	CC	TT	1947022619
SNP_P4_168940_14115	NW_004516958.1	Scaffold1869	14115	CC	TT	1947022621
SNP_P4_168941_14200	NW_004516958.1	Scaffold1869	14200	GG	AA	1947022623
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SNP_P4_168943_14315	NW_004516958.1	Scaffold1869	14315	CC	AA	1947022627
SNP_P4_168944_15938	NW_004516958.1	Scaffold1869	15938	CC	GG	1947022629
SNP_P4_168945_15953	NW_004516958.1	Scaffold1869	15953	TT	CC	1947022631
SNP_P4_168947_16097	NW_004516958.1	Scaffold1869	16097	TT	CC	1947022633
SNP_P4_168948_16245	NW_004516958.1	Scaffold1869	16245	TT	CC	1947022634
SNP_P4_168949_16256	NW_004516958.1	Scaffold1869	16256	CC	GG	1947022636
SNP_P4_168950_16263	NW_004516958.1	Scaffold1869	16263	CC	TT	1947022638
SNP_P4_168951_16288	NW_004516958.1	Scaffold1869	16288	AA	TT	1947022640
SNP_P4_168952_16575	NW_004516958.1	Scaffold1869	16575	AA	GG	1947022642
SNP_P4_168953_16642	NW_004516958.1	Scaffold1869	16642	AA	GG	1947022644
SNP_P4_168954_16659	NW_004516958.1	Scaffold1869	16659	AA	GG	1947022646

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_168956_16702	NW_004516958.1	Scaffold1869	16702	AA	CC	1947022650
SNP_P4_168957_16756	NW_004516958.1	Scaffold1869	16756	AA	GG	1947022651
SNP_P4_168958_16786	NW_004516958.1	Scaffold1869	16786	CC	TT	1947022653
SNP_P4_168959_16787	NW_004516958.1	Scaffold1869	16787	CC	GG	1947022655
SNP_P4_168960_16798	NW_004516958.1	Scaffold1869	16798	AA	TT	1947022657
SNP_P4_168961_16803	NW_004516958.1	Scaffold1869	16803	CC	TT	1947022659
SNP_P4_168962_16851	NW_004516958.1	Scaffold1869	16851	GG	AA	1947022661
SNP_P4_168963_16877	NW_004516958.1	Scaffold1869	16877	GG	TT	1947022663
SNP_P4_168964_17012	NW_004516958.1	Scaffold1869	17012	CC	TT	1947022665
SNP_P4_168965_18540	NW_004516958.1	Scaffold1869	18540	CC	GG	1947022667
SNP_P4_168966_18716	NW_004516958.1	Scaffold1869	18716	GG	TT	1947022669
SNP_P4_168967_18810	NW_004516958.1	Scaffold1869	18810	CC	GG	1947022670
SNP_P4_168968_18846	NW_004516958.1	Scaffold1869	18846	CC	GG	1947022672
SNP_P4_168969_18883	NW_004516958.1	Scaffold1869	18883	TT	GG	1947022674
SNP_P4_168970_18929	NW_004516958.1	Scaffold1869	18929	AA	CC	1947022676
SNP_P4_168971_18973	NW_004516958.1	Scaffold1869	18973	CC	TT	1947022678
SNP_P4_168972_19057	NW_004516958.1	Scaffold1869	19057	CC	AA	1947022680
SNP_P4_168974_19107	NW_004516958.1	Scaffold1869	19107	CC	TT	1947022682
SNP_P4_168975_19154	NW_004516958.1	Scaffold1869	19154	GG	AA	1947022684
SNP_P4_168976_19167	NW_004516958.1	Scaffold1869	19167	TT	CC	1947022686
SNP_P4_168977_19278	NW_004516958.1	Scaffold1869	19278	GG	AA	1947022687
SNP_P4_168978_19380	NW_004516958.1	Scaffold1869	19380	CC	TT	1947022689
SNP_P4_168979_19488	NW_004516958.1	Scaffold1869	19488	CC	GG	1947022691
SNP_P4_168980_19515	NW_004516958.1	Scaffold1869	19515	TT	GG	1947022693
SNP_P4_168982_19603	NW_004516958.1	Scaffold1869	19603	CC	TT	1947022695
SNP_P4_168983_19609	NW_004516958.1	Scaffold1869	19609	TT	CC	1947022697
SNP_P4_168984_19720	NW_004516958.1	Scaffold1869	19720	CC	TT	1947022699
SNP_P4_168985_19757	NW_004516958.1	Scaffold1869	19757	CC	AA	1947022701
SNP_P4_168986_19847	NW_004516958.1	Scaffold1869	19847	CC	AA	1947022703
SNP_P4_168987_19950	NW_004516958.1	Scaffold1869	19950	CC	AA	1947022704
SNP_P4_168988_19962	NW_004516958.1	Scaffold1869	19962	AA	TT	1947022706
SNP_P4_168990_20064	NW_004516958.1	Scaffold1869	20064	TT	GG	1947022708
SNP_P4_168991_20108	NW_004516958.1	Scaffold1869	20108	TT	AA	1947022710
SNP_P4_168992_20228	NW_004516958.1	Scaffold1869	20228	AA	CC	1947022712
SNP_P4_168993_20356	NW_004516958.1	Scaffold1869	20356	AA	GG	1947022714
SNP_P4_168994_24480	NW_004516958.1	Scaffold1869	24480	AA	GG	1947022716
SNP_P4_168995_24516	NW_004516958.1	Scaffold1869	24516	GG	AA	1947022718
SNP_P4_168996_24564	NW_004516958.1	Scaffold1869	24564	TT	CC	1947022720
SNP_P4_168997_274	NW_004516959.1	Scaffold1870	274	TT	AA	1947022722
SNP_P4_168998_319	NW_004516959.1	Scaffold1870	319	CC	GG	1947022724
SNP_P4_168999_593	NW_004516959.1	Scaffold1870	593	AA	GG	1947022725

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_169000_634	NW_004516959.1	Scaffold1870	634	TT	AA	1947022727
SNP_P4_169001_636	NW_004516959.1	Scaffold1870	636	GG	TT	1947022729
SNP_P4_169002_819	NW_004516959.1	Scaffold1870	819	GG	AA	1947022731
SNP_P4_169003_11200	NW_004516959.1	Scaffold1870	11200	CC	TT	1947022733
SNP_P4_169004_11318	NW_004516959.1	Scaffold1870	11318	AA	CC	1947022735
SNP_P4_169005_11326	NW_004516959.1	Scaffold1870	11326	AA	CC	1947022737
SNP_P4_169006_11339	NW_004516959.1	Scaffold1870	11339	GG	AA	1947022739
SNP_P4_169007_11490	NW_004516959.1	Scaffold1870	11490	TT	GG	1947022741
SNP_P4_169008_12733	NW_004516959.1	Scaffold1870	12733	AA	CC	1947022743
SNP_P4_169009_13715	NW_004516959.1	Scaffold1870	13715	TT	CC	1947022745
SNP_P4_169010_13721	NW_004516959.1	Scaffold1870	13721	TT	CC	1947022747
SNP_P4_169011_20925	NW_004516959.1	Scaffold1870	20925	AA	GG	1947022749
SNP_P4_169012_21202	NW_004516959.1	Scaffold1870	21202	GG	TT	1947022751
SNP_P4_169014_21240	NW_004516959.1	Scaffold1870	21240	AA	TT	1947022752
SNP_P4_169015_21295	NW_004516959.1	Scaffold1870	21295	AA	GG	1947022754
SNP_P4_169016_21918	NW_004516960.1	Scaffold1872	21918	TT	CC	1947022756
SNP_P4_169017_21964	NW_004516960.1	Scaffold1872	21964	AA	GG	1947022758
SNP_P4_169018_21966	NW_004516960.1	Scaffold1872	21966	GG	AA	1947022760
SNP_P4_169019_21982	NW_004516960.1	Scaffold1872	21982	GG	TT	1947022762
SNP_P4_169020_2518	NW_004516961.1	Scaffold1874	2518	GG	TT	1947022764
SNP_P4_169021_521	NW_004516962.1	Scaffold1878	521	GG	TT	1947022766
SNP_P4_169022_545	NW_004516962.1	Scaffold1878	545	CC	GG	1947022768
SNP_P4_169023_4772	NW_004516962.1	Scaffold1878	4772	TT	CC	1947022770
SNP_P4_169024_5069	NW_004516962.1	Scaffold1878	5069	CC	AA	1947022772
SNP_P4_169025_5210	NW_004516962.1	Scaffold1878	5210	CC	TT	1947022774
SNP_P4_169026_5886	NW_004516962.1	Scaffold1878	5886	TT	CC	1947022775
SNP_P4_169027_6242	NW_004516962.1	Scaffold1878	6242	TT	AA	1947022777
SNP_P4_169029_8902	NW_004516962.1	Scaffold1878	8902	GG	CC	1947022779
SNP_P4_169030_8924	NW_004516962.1	Scaffold1878	8924	TT	CC	1947022781
SNP_P4_169031_8994	NW_004516962.1	Scaffold1878	8994	TT	AA	1947022783
SNP_P4_169032_10019	NW_004516962.1	Scaffold1878	10019	TT	AA	1947022785
SNP_P4_169033_14782	NW_004516962.1	Scaffold1878	14782	TT	CC	1947022787
SNP_P4_169034_14926	NW_004516962.1	Scaffold1878	14926	GG	TT	1947022789
SNP_P4_169035_16587	NW_004516962.1	Scaffold1878	16587	CC	TT	1947022791
SNP_P4_169036_17583	NW_004516962.1	Scaffold1878	17583	TT	GG	1947022793
SNP_P4_169037_18111	NW_004516962.1	Scaffold1878	18111	GG	CC	1947022795
SNP_P4_169038_18599	NW_004516962.1	Scaffold1878	18599	AA	GG	1947022796
SNP_P4_169039_23087	NW_004516962.1	Scaffold1878	23087	GG	TT	1947022798
SNP_P4_169040_23092	NW_004516962.1	Scaffold1878	23092	CC	TT	1947022800
SNP_P4_169041_23383	NW_004516962.1	Scaffold1878	23383	GG	AA	1947022802
SNP_P4_169042_23534	NW_004516962.1	Scaffold1878	23534	AA	GG	1947022804
SNP_P4_169043_25774	NW_004516962.1	Scaffold1878	25774	AA	GG	1947022806

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_169046_26758	NW_004516962.1	Scaffold1878	26758	GG	TT	1947022810
SNP_P4_169047_27613	NW_004516962.1	Scaffold1878	27613	TT	CC	1947022812
SNP_P4_169048_28978	NW_004516962.1	Scaffold1878	28978	GG	AA	1947022813
SNP_P4_169049_30593	NW_004516962.1	Scaffold1878	30593	GG	AA	1947022815
SNP_P4_169051_30821	NW_004516962.1	Scaffold1878	30821	CC	TT	1947022817
SNP_P4_169052_32839	NW_004516962.1	Scaffold1878	32839	CC	TT	1947022819
SNP_P4_169053_40201	NW_004516962.1	Scaffold1878	40201	TT	CC	1947022821
SNP_P4_169054_40297	NW_004516962.1	Scaffold1878	40297	CC	TT	1947022823
SNP_P4_169055_40520	NW_004516962.1	Scaffold1878	40520	TT	CC	1947022825
SNP_P4_169056_40549	NW_004516962.1	Scaffold1878	40549	CC	GG	1947022827
SNP_P4_169057_40558	NW_004516962.1	Scaffold1878	40558	AA	CC	1947022829
SNP_P4_169058_40603	NW_004516962.1	Scaffold1878	40603	CC	TT	1947022831
SNP_P4_169059_40607	NW_004516962.1	Scaffold1878	40607	GG	AA	1947022833
SNP_P4_169060_40614	NW_004516962.1	Scaffold1878	40614	TT	CC	1947022835
SNP_P4_169061_40624	NW_004516962.1	Scaffold1878	40624	AA	GG	1947022837
SNP_P4_169062_40645	NW_004516962.1	Scaffold1878	40645	AA	GG	1947022839
SNP_P4_169064_40677	NW_004516962.1	Scaffold1878	40677	GG	AA	1947022841
SNP_P4_169065_40686	NW_004516962.1	Scaffold1878	40686	AA	GG	1947022843
SNP_P4_169066_40768	NW_004516962.1	Scaffold1878	40768	AA	GG	1947022845
SNP_P4_169068_45231	NW_004516962.1	Scaffold1878	45231	GG	AA	1947022847
SNP_P4_169069_45380	NW_004516962.1	Scaffold1878	45380	AA	TT	1947022849
SNP_P4_169070_51592	NW_004516962.1	Scaffold1878	51592	AA	GG	1947022852
SNP_P4_169072_54209	NW_004516962.1	Scaffold1878	54209	AA	GG	1947022854
SNP_P4_169073_56316	NW_004516962.1	Scaffold1878	56316	AA	TT	1947022857
SNP_P4_169074_56617	NW_004516962.1	Scaffold1878	56617	GG	TT	1947022859
SNP_P4_169075_56805	NW_004516962.1	Scaffold1878	56805	AA	CC	1947022862
SNP_P4_169076_56819	NW_004516962.1	Scaffold1878	56819	CC	TT	1947022864
SNP_P4_169077_57067	NW_004516962.1	Scaffold1878	57067	CC	GG	1947022867
SNP_P4_169078_69347	NW_004516962.1	Scaffold1878	69347	GG	TT	1947022869
SNP_P4_169079_70595	NW_004516962.1	Scaffold1878	70595	TT	AA	1947022872
SNP_P4_169080_73558	NW_004516962.1	Scaffold1878	73558	GG	TT	1947022874
SNP_P4_169081_73560	NW_004516962.1	Scaffold1878	73560	TT	CC	1947022877
SNP_P4_169083_75389	NW_004516962.1	Scaffold1878	75389	AA	CC	1947022879
SNP_P4_169084_75390	NW_004516962.1	Scaffold1878	75390	AA	GG	1947022882
SNP_P4_169085_76669	NW_004516962.1	Scaffold1878	76669	AA	GG	1947022885
SNP_P4_169086_7074	NW_004516963.1	Scaffold1880	7074	AA	CC	1947022887
SNP_P4_169087_1398	NW_004516965.1	Scaffold1883	1398	AA	GG	1947022890
SNP_P4_169088_19506	NW_004516966.1	Scaffold1884	19506	CC	TT	1947022892
SNP_P4_169089_19713	NW_004516966.1	Scaffold1884	19713	AA	GG	1947022895
SNP_P4_169090_23927	NW_004516966.1	Scaffold1884	23927	GG	AA	1947022897
SNP_P4_169091_237	NW_004516967.1	Scaffold1885	237	TT	AA	1947022900

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_169093_500	NW_004516967.1	Scaffold1885	500	AA	TT	1947022904
SNP_P4_169094_501	NW_004516967.1	Scaffold1885	501	TT	AA	1947022906
SNP_P4_169095_521	NW_004516967.1	Scaffold1885	521	TT	CC	1947022909
SNP_P4_169096_538	NW_004516967.1	Scaffold1885	538	GG	TT	1947022911
SNP_P4_169097_559	NW_004516967.1	Scaffold1885	559	AA	CC	1947022913
SNP_P4_169098_631	NW_004516967.1	Scaffold1885	631	GG	AA	1947022915
SNP_P4_169099_965	NW_004516967.1	Scaffold1885	965	TT	CC	1947022917
SNP_P4_169100_1169	NW_004516967.1	Scaffold1885	1169	GG	TT	1947022919
SNP_P4_169101_1187	NW_004516967.1	Scaffold1885	1187	AA	CC	1947022921
SNP_P4_169102_2065	NW_004516967.1	Scaffold1885	2065	TT	AA	1947022923
SNP_P4_169103_2067	NW_004516967.1	Scaffold1885	2067	GG	AA	1947022925
SNP_P4_169104_2093	NW_004516967.1	Scaffold1885	2093	CC	AA	1947022927
SNP_P4_169105_2107	NW_004516967.1	Scaffold1885	2107	AA	TT	1947022929
SNP_P4_169106_2190	NW_004516967.1	Scaffold1885	2190	CC	AA	1947022931
SNP_P4_169107_2267	NW_004516967.1	Scaffold1885	2267	CC	GG	1947022933
SNP_P4_169108_2319	NW_004516967.1	Scaffold1885	2319	AA	CC	1947022935
SNP_P4_169109_2325	NW_004516967.1	Scaffold1885	2325	TT	GG	1947022937
SNP_P4_169110_2541	NW_004516967.1	Scaffold1885	2541	TT	CC	1947022939
SNP_P4_169111_2555	NW_004516967.1	Scaffold1885	2555	AA	TT	1947022941
SNP_P4_169112_2683	NW_004516967.1	Scaffold1885	2683	AA	GG	1947022943
SNP_P4_169113_2695	NW_004516967.1	Scaffold1885	2695	TT	AA	1947022945
SNP_P4_169114_2763	NW_004516967.1	Scaffold1885	2763	GG	TT	1947022947
SNP_P4_169115_3086	NW_004516967.1	Scaffold1885	3086	CC	TT	1947022949
SNP_P4_169116_5279	NW_004516967.1	Scaffold1885	5279	TT	AA	1947022951
SNP_P4_169117_9394	NW_004516967.1	Scaffold1885	9394	TT	CC	1947022953
SNP_P4_169118_9573	NW_004516967.1	Scaffold1885	9573	AA	GG	1947022955
SNP_P4_169119_9981	NW_004516967.1	Scaffold1885	9981	AA	TT	1947022957
SNP_P4_169120_10335	NW_004516967.1	Scaffold1885	10335	CC	TT	1947022959
SNP_P4_169121_10358	NW_004516967.1	Scaffold1885	10358	TT	CC	1947022961
SNP_P4_169122_12702	NW_004516967.1	Scaffold1885	12702	GG	AA	1947022963
SNP_P4_169123_12764	NW_004516967.1	Scaffold1885	12764	TT	CC	1947022965
SNP_P4_169124_13189	NW_004516967.1	Scaffold1885	13189	CC	TT	1947022967
SNP_P4_169125_13226	NW_004516967.1	Scaffold1885	13226	AA	GG	1947022969
SNP_P4_169126_27593	NW_004516967.1	Scaffold1885	27593	AA	GG	1947022971
SNP_P4_169127_27643	NW_004516967.1	Scaffold1885	27643	GG	AA	1947022973
SNP_P4_169128_27674	NW_004516967.1	Scaffold1885	27674	TT	GG	1947022975
SNP_P4_169129_27679	NW_004516967.1	Scaffold1885	27679	TT	CC	1947022977
SNP_P4_169130_27992	NW_004516967.1	Scaffold1885	27992	TT	GG	1947022979
SNP_P4_169131_32351	NW_004516967.1	Scaffold1885	32351	GG	AA	1947022981
SNP_P4_169132_39311	NW_004516967.1	Scaffold1885	39311	TT	CC	1947022983
SNP_P4_169133_39606	NW_004516967.1	Scaffold1885	39606	AA	CC	1947022985

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_169136_40089	NW_004516967.1	Scaffold1885	40089	CC	TT	1947022991
SNP_P4_169138_42432	NW_004516967.1	Scaffold1885	42432	AA	GG	1947022993
SNP_P4_169139_42661	NW_004516967.1	Scaffold1885	42661	CC	AA	1947022995
SNP_P4_169140_42833	NW_004516967.1	Scaffold1885	42833	TT	CC	1947022997
SNP_P4_169141_42986	NW_004516967.1	Scaffold1885	42986	GG	AA	1947022999
SNP_P4_169142_43818	NW_004516967.1	Scaffold1885	43818	AA	GG	1947023001
SNP_P4_169143_43822	NW_004516967.1	Scaffold1885	43822	TT	AA	1947023003
SNP_P4_169144_45434	NW_004516967.1	Scaffold1885	45434	TT	GG	1947023005
SNP_P4_169145_46787	NW_004516967.1	Scaffold1885	46787	AA	TT	1947023007
SNP_P4_169146_47090	NW_004516967.1	Scaffold1885	47090	TT	CC	1947023009
SNP_P4_169147_47190	NW_004516967.1	Scaffold1885	47190	TT	CC	1947023011
SNP_P4_169148_47458	NW_004516967.1	Scaffold1885	47458	CC	GG	1947023013
SNP_P4_169151_17931	NW_004516968.1	Scaffold1886	17931	GG	AA	1947023015
SNP_P4_169153_18289	NW_004516968.1	Scaffold1886	18289	CC	TT	1947023017
SNP_P4_169154_19108	NW_004516968.1	Scaffold1886	19108	TT	GG	1947023019
SNP_P4_169155_19167	NW_004516968.1	Scaffold1886	19167	CC	TT	1947023021
SNP_P4_169158_94	NW_004516969.1	Scaffold1888	94	CC	AA	1947023023
SNP_P4_169159_383	NW_004516969.1	Scaffold1888	383	TT	CC	1947023025
SNP_P4_169161_533	NW_004516969.1	Scaffold1888	533	AA	CC	1947023027
SNP_P4_169162_547	NW_004516969.1	Scaffold1888	547	AA	GG	1947023029
SNP_P4_169163_588	NW_004516969.1	Scaffold1888	588	AA	GG	1947023031
SNP_P4_169164_835	NW_004516969.1	Scaffold1888	835	AA	GG	1947023033
SNP_P4_169166_101	NW_004516972.1	Scaffold1893	101	CC	TT	1947023035
SNP_P4_169167_130	NW_004516972.1	Scaffold1893	130	CC	GG	1947023037
SNP_P4_169168_151	NW_004516972.1	Scaffold1893	151	CC	GG	1947023039
SNP_P4_169169_183	NW_004516972.1	Scaffold1893	183	CC	TT	1947023041
SNP_P4_169170_506	NW_004516972.1	Scaffold1893	506	CC	TT	1947023043
SNP_P4_169171_791	NW_004516972.1	Scaffold1893	791	AA	GG	1947023045
SNP_P4_169172_1930	NW_004516972.1	Scaffold1893	1930	AA	GG	1947023047
SNP_P4_169173_1976	NW_004516972.1	Scaffold1893	1976	CC	TT	1947023049
SNP_P4_169174_2233	NW_004516972.1	Scaffold1893	2233	CC	TT	1947023051
SNP_P4_169175_14864	NW_004516972.1	Scaffold1893	14864	AA	GG	1947023053
SNP_P4_169176_15793	NW_004516972.1	Scaffold1893	15793	TT	GG	1947023055
SNP_P4_169177_15796	NW_004516972.1	Scaffold1893	15796	TT	AA	1947023057
SNP_P4_169178_15812	NW_004516972.1	Scaffold1893	15812	GG	AA	1947023059
SNP_P4_169179_16857	NW_004516972.1	Scaffold1893	16857	GG	AA	1947023061
SNP_P4_169180_17300	NW_004516972.1	Scaffold1893	17300	CC	TT	1947023063
SNP_P4_169181_17354	NW_004516972.1	Scaffold1893	17354	AA	CC	1947023065
SNP_P4_169182_17454	NW_004516972.1	Scaffold1893	17454	TT	AA	1947023066
SNP_P4_169183_44325	NW_004516972.1	Scaffold1893	44325	AA	GG	1947023068

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_169185_85	NW_004516973.1	Scaffold1894	85	AA	CC	1947023072
SNP_P4_169186_1439	NW_004516973.1	Scaffold1894	1439	GG	CC	1947023074
SNP_P4_169187_1530	NW_004516973.1	Scaffold1894	1530	AA	CC	1947023076
SNP_P4_169188_1977	NW_004516973.1	Scaffold1894	1977	CC	TT	1947023078
SNP_P4_169189_2685	NW_004516973.1	Scaffold1894	2685	CC	GG	1947023080
SNP_P4_169190_14180	NW_004516973.1	Scaffold1894	14180	GG	AA	1947023082
SNP_P4_169191_2242	NW_004516974.1	Scaffold1896	2242	AA	GG	1947023084
SNP_P4_169192_6761	NW_004516974.1	Scaffold1896	6761	AA	CC	1947023086
SNP_P4_169193_10165	NW_004516974.1	Scaffold1896	10165	CC	GG	1947023087
SNP_P4_169194_13425	NW_004516974.1	Scaffold1896	13425	CC	AA	1947023089
SNP_P4_169195_14281	NW_004516974.1	Scaffold1896	14281	AA	TT	1947023091
SNP_P4_169196_14329	NW_004516974.1	Scaffold1896	14329	CC	GG	1947023093
SNP_P4_169197_18633	NW_004516974.1	Scaffold1896	18633	GG	CC	1947023095
SNP_P4_169198_24974	NW_004516974.1	Scaffold1896	24974	TT	AA	1947023097
SNP_P4_169199_25018	NW_004516974.1	Scaffold1896	25018	GG	TT	1947023099
SNP_P4_169200_2987	NW_004516975.1	Scaffold1897	2987	TT	CC	1947023101
SNP_P4_169201_11738	NW_004516975.1	Scaffold1897	11738	TT	GG	1947023103
SNP_P4_169202_11899	NW_004516975.1	Scaffold1897	11899	CC	TT	1947023104
SNP_P4_169203_11915	NW_004516975.1	Scaffold1897	11915	CC	AA	1947023106
SNP_P4_169204_11916	NW_004516975.1	Scaffold1897	11916	AA	GG	1947023108
SNP_P4_169205_21998	NW_004516975.1	Scaffold1897	21998	CC	TT	1947023110
SNP_P4_169206_3723	NW_004516977.1	Scaffold1899	3723	CC	TT	1947023112
SNP_P4_169209_33568	NW_004516977.1	Scaffold1899	33568	AA	GG	1947023114
SNP_P4_169210_33730	NW_004516977.1	Scaffold1899	33730	AA	CC	1947023116
SNP_P4_169211_33735	NW_004516977.1	Scaffold1899	33735	TT	CC	1947023118
SNP_P4_169212_33765	NW_004516977.1	Scaffold1899	33765	TT	GG	1947023120
SNP_P4_169213_33816	NW_004516977.1	Scaffold1899	33816	TT	CC	1947023122
SNP_P4_169214_34973	NW_004516977.1	Scaffold1899	34973	TT	CC	1947023123
SNP_P4_169216_42770	NW_004516977.1	Scaffold1899	42770	CC	AA	1947023125
SNP_P4_169217_42781	NW_004516977.1	Scaffold1899	42781	TT	CC	1947023127
SNP_P4_169218_64	NW_004516981.1	Scaffold1903	64	AA	GG	1947023129
SNP_P4_169219_116	NW_004516981.1	Scaffold1903	116	GG	TT	1947023131
SNP_P4_169220_128	NW_004516981.1	Scaffold1903	128	GG	CC	1947023133
SNP_P4_169221_1739	NW_004516981.1	Scaffold1903	1739	GG	AA	1947023135
SNP_P4_169222_2071	NW_004516981.1	Scaffold1903	2071	GG	CC	1947023137
SNP_P4_169223_2091	NW_004516981.1	Scaffold1903	2091	AA	GG	1947023139
SNP_P4_169224_2188	NW_004516981.1	Scaffold1903	2188	AA	GG	1947023141
SNP_P4_169225_2206	NW_004516981.1	Scaffold1903	2206	AA	TT	1947023143
SNP_P4_169226_2221	NW_004516981.1	Scaffold1903	2221	GG	AA	1947023145
SNP_P4_169227_2222	NW_004516981.1	Scaffold1903	2222	GG	AA	1947023147
SNP_P4_169228_2252	NW_004516981.1	Scaffold1903	2252	TT	AA	1947023149

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_169230_1107	NW_004516982.1	Scaffold1904	1107	TT	CC	1947023153
SNP_P4_169231_1134	NW_004516982.1	Scaffold1904	1134	CC	TT	1947023155
SNP_P4_169232_1149	NW_004516982.1	Scaffold1904	1149	AA	TT	1947023156
SNP_P4_169233_1173	NW_004516982.1	Scaffold1904	1173	AA	GG	1947023158
SNP_P4_169234_1215	NW_004516982.1	Scaffold1904	1215	AA	TT	1947023160
SNP_P4_169235_1227	NW_004516982.1	Scaffold1904	1227	AA	TT	1947023162
SNP_P4_169236_1273	NW_004516982.1	Scaffold1904	1273	TT	AA	1947023164
SNP_P4_169237_1284	NW_004516982.1	Scaffold1904	1284	CC	TT	1947023166
SNP_P4_169238_1335	NW_004516982.1	Scaffold1904	1335	AA	GG	1947023168
SNP_P4_169239_1487	NW_004516982.1	Scaffold1904	1487	CC	GG	1947023170
SNP_P4_169240_1527	NW_004516982.1	Scaffold1904	1527	GG	AA	1947023172
SNP_P4_169241_1575	NW_004516982.1	Scaffold1904	1575	TT	CC	1947023174
SNP_P4_169242_1581	NW_004516982.1	Scaffold1904	1581	TT	GG	1947023176
SNP_P4_169243_1611	NW_004516982.1	Scaffold1904	1611	CC	GG	1947023177
SNP_P4_169244_6627	NW_004516982.1	Scaffold1904	6627	CC	GG	1947023179
SNP_P4_169245_338	NW_004516983.1	Scaffold1905	338	AA	GG	1947023181
SNP_P4_169246_596	NW_004516983.1	Scaffold1905	596	TT	CC	1947023183
SNP_P4_169247_634	NW_004516983.1	Scaffold1905	634	AA	TT	1947023185
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SNP_P4_169252_1763	NW_004516983.1	Scaffold1905	1763	CC	GG	1947023193
SNP_P4_169253_1803	NW_004516983.1	Scaffold1905	1803	CC	TT	1947023195
SNP_P4_169254_1889	NW_004516983.1	Scaffold1905	1889	GG	AA	1947023197
SNP_P4_169255_1988	NW_004516983.1	Scaffold1905	1988	TT	GG	1947023199
SNP_P4_169256_2077	NW_004516983.1	Scaffold1905	2077	TT	AA	1947023201
SNP_P4_169257_2090	NW_004516983.1	Scaffold1905	2090	TT	GG	1947023202
SNP_P4_169258_2103	NW_004516983.1	Scaffold1905	2103	GG	AA	1947023204
SNP_P4_169259_2125	NW_004516983.1	Scaffold1905	2125	AA	TT	1947023206
SNP_P4_169260_2134	NW_004516983.1	Scaffold1905	2134	TT	CC	1947023208
SNP_P4_169261_2217	NW_004516983.1	Scaffold1905	2217	TT	AA	1947023210
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SNP_P4_169266_16756	NW_004516983.1	Scaffold1905	16756	AA	CC	1947023218
SNP_P4_169267_16816	NW_004516983.1	Scaffold1905	16816	TT	AA	1947023220
SNP_P4_169268_16880	NW_004516983.1	Scaffold1905	16880	AA	GG	1947023221
SNP_P4_169269_16886	NW_004516983.1	Scaffold1905	16886	TT	CC	1947023223
SNP_P4_169270_16927	NW_004516983.1	Scaffold1905	16927	TT	CC	1947023225
SNP_P4_169271_16946	NW_004516983.1	Scaffold1905	16946	TT	CC	1947023227
SNP_P4_169272_16966	NW_004516983.1	Scaffold1905	16966	CC	AA	1947023229

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_169274_17011	NW_004516983.1	Scaffold1905	17011	GG	AA	1947023233
SNP_P4_169276_31193	NW_004516983.1	Scaffold1905	31193	CC	TT	1947023235
SNP_P4_169277_31672	NW_004516983.1	Scaffold1905	31672	GG	AA	1947023237
SNP_P4_169278_31971	NW_004516983.1	Scaffold1905	31971	TT	GG	1947023239
SNP_P4_169279_32057	NW_004516983.1	Scaffold1905	32057	CC	GG	1947023241
SNP_P4_169280_32295	NW_004516983.1	Scaffold1905	32295	GG	CC	1947023242
SNP_P4_169281_32404	NW_004516983.1	Scaffold1905	32404	GG	AA	1947023244
SNP_P4_169282_1760	NW_004516984.1	Scaffold1907	1760	CC	TT	1947023246
SNP_P4_169283_13439	NW_004516984.1	Scaffold1907	13439	TT	GG	1947023248
SNP_P4_169284_18664	NW_004516984.1	Scaffold1907	18664	CC	TT	1947023250
SNP_P4_169285_18778	NW_004516984.1	Scaffold1907	18778	GG	CC	1947023252
SNP_P4_169286_23722	NW_004516984.1	Scaffold1907	23722	TT	GG	1947023254
SNP_P4_169287_23733	NW_004516984.1	Scaffold1907	23733	TT	GG	1947023256
SNP_P4_169288_24075	NW_004516984.1	Scaffold1907	24075	TT	GG	1947023257
SNP_P4_169289_24140	NW_004516984.1	Scaffold1907	24140	AA	CC	1947023259
SNP_P4_169290_24142	NW_004516984.1	Scaffold1907	24142	TT	AA	1947023261
SNP_P4_169291_37524	NW_004516984.1	Scaffold1907	37524	AA	TT	1947023263
SNP_P4_169292_61664	NW_004516984.1	Scaffold1907	61664	AA	TT	1947023265
SNP_P4_169293_61757	NW_004516984.1	Scaffold1907	61757	AA	GG	1947023267
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SNP_P4_169296_62877	NW_004516984.1	Scaffold1907	62877	AA	GG	1947023271
SNP_P4_169297_62925	NW_004516984.1	Scaffold1907	62925	GG	TT	1947023273
SNP_P4_169298_63168	NW_004516984.1	Scaffold1907	63168	GG	AA	1947023275
SNP_P4_169299_63180	NW_004516984.1	Scaffold1907	63180	AA	GG	1947023277
SNP_P4_169300_63214	NW_004516984.1	Scaffold1907	63214	CC	AA	1947023279
SNP_P4_169301_64821	NW_004516984.1	Scaffold1907	64821	TT	CC	1947023281
SNP_P4_169302_72030	NW_004516984.1	Scaffold1907	72030	TT	GG	1947023283
SNP_P4_169303_72042	NW_004516984.1	Scaffold1907	72042	TT	CC	1947023285
SNP_P4_169304_72043	NW_004516984.1	Scaffold1907	72043	AA	GG	1947023287
SNP_P4_169305_264	NW_004516987.1	Scaffold1910	264	GG	AA	1947023289
SNP_P4_169306_303	NW_004516987.1	Scaffold1910	303	AA	GG	1947023291
SNP_P4_169307_306	NW_004516987.1	Scaffold1910	306	CC	TT	1947023293
SNP_P4_169308_1091	NW_004516987.1	Scaffold1910	1091	AA	GG	1947023295
SNP_P4_169309_6532	NW_004516987.1	Scaffold1910	6532	TT	GG	1947023296
SNP_P4_169310_6552	NW_004516987.1	Scaffold1910	6552	AA	GG	1947023298
SNP_P4_169311_6555	NW_004516987.1	Scaffold1910	6555	CC	GG	1947023300
SNP_P4_169312_6563	NW_004516987.1	Scaffold1910	6563	TT	AA	1947023302
SNP_P4_169313_6594	NW_004516987.1	Scaffold1910	6594	AA	TT	1947023304
SNP_P4_169314_6604	NW_004516987.1	Scaffold1910	6604	GG	CC	1947023306
SNP_P4_169315_6607	NW_004516987.1	Scaffold1910	6607	AA	TT	1947023308
SNP_P4_169316_6612	NW_004516987.1	Scaffold1910	6612	GG	AA	1947023310

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_169319_6621	NW_004516987.1	Scaffold1910	6621	AA	TT	1947023316
SNP_P4_169320_6622	NW_004516987.1	Scaffold1910	6622	TT	GG	1947023318
SNP_P4_169321_6680	NW_004516987.1	Scaffold1910	6680	GG	CC	1947023320
SNP_P4_169322_6681	NW_004516987.1	Scaffold1910	6681	AA	TT	1947023322
SNP_P4_169323_6686	NW_004516987.1	Scaffold1910	6686	CC	TT	1947023324
SNP_P4_169324_6688	NW_004516987.1	Scaffold1910	6688	TT	AA	1947023325
SNP_P4_169325_6712	NW_004516987.1	Scaffold1910	6712	GG	AA	1947023327
SNP_P4_169326_6781	NW_004516987.1	Scaffold1910	6781	GG	TT	1947023329
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SNP_P4_169328_6935	NW_004516987.1	Scaffold1910	6935	GG	CC	1947023333
SNP_P4_169329_6998	NW_004516987.1	Scaffold1910	6998	AA	TT	1947023335
SNP_P4_169330_7009	NW_004516987.1	Scaffold1910	7009	TT	GG	1947023337
SNP_P4_169331_7010	NW_004516987.1	Scaffold1910	7010	GG	CC	1947023339
SNP_P4_169332_7050	NW_004516987.1	Scaffold1910	7050	CC	TT	1947023341
SNP_P4_169333_7058	NW_004516987.1	Scaffold1910	7058	CC	TT	1947023343
SNP_P4_169334_7081	NW_004516987.1	Scaffold1910	7081	AA	GG	1947023345
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SNP_P4_169339_13477	NW_004516987.1	Scaffold1910	13477	GG	AA	1947023355
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SNP_P4_169341_13549	NW_004516987.1	Scaffold1910	13549	AA	TT	1947023359
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SNP_P4_169345_13957	NW_004516987.1	Scaffold1910	13957	AA	CC	1947023365
SNP_P4_169346_17722	NW_004516987.1	Scaffold1910	17722	GG	AA	1947023367
SNP_P4_169347_17795	NW_004516987.1	Scaffold1910	17795	TT	CC	1947023369
SNP_P4_169348_18126	NW_004516987.1	Scaffold1910	18126	AA	GG	1947023371
SNP_P4_169349_18151	NW_004516987.1	Scaffold1910	18151	GG	CC	1947023373
SNP_P4_169350_18229	NW_004516987.1	Scaffold1910	18229	TT	GG	1947023375
SNP_P4_169351_23293	NW_004516987.1	Scaffold1910	23293	AA	CC	1947023377
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SNP_P4_169358_36710	NW_004516987.1	Scaffold1910	36710	CC	TT	1947023391
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_169362_36815	NW_004516987.1	Scaffold1910	36815	TT	CC	1947023399
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SNP_P4_169364_37079	NW_004516987.1	Scaffold1910	37079	TT	CC	1947023403
SNP_P4_169365_37089	NW_004516987.1	Scaffold1910	37089	AA	GG	1947023405
SNP_P4_169366_37111	NW_004516987.1	Scaffold1910	37111	AA	CC	1947023407
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SNP_P4_169372_38991	NW_004516987.1	Scaffold1910	38991	TT	AA	1947023419
SNP_P4_169373_39163	NW_004516987.1	Scaffold1910	39163	AA	TT	1947023421
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SNP_P4_169377_46565	NW_004516987.1	Scaffold1910	46565	AA	CC	1947023429
SNP_P4_169378_46886	NW_004516987.1	Scaffold1910	46886	TT	AA	1947023431
SNP_P4_169379_1976	NW_004516988.1	Scaffold1911	1976	TT	AA	1947023433
SNP_P4_169380_1977	NW_004516988.1	Scaffold1911	1977	AA	TT	1947023435
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SNP_P4_169398_12650	NW_004516988.1	Scaffold1911	12650	AA	TT	1947023472
SNP_P4_169399_12755	NW_004516988.1	Scaffold1911	12755	TT	CC	1947023474
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_169405_14634	NW_004516988.1	Scaffold1911	14634	TT	GG	1947023486
SNP_P4_169406_14643	NW_004516988.1	Scaffold1911	14643	CC	TT	1947023488
SNP_P4_169407_14792	NW_004516988.1	Scaffold1911	14792	TT	AA	1947023490
SNP_P4_169408_14941	NW_004516988.1	Scaffold1911	14941	AA	CC	1947023492
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SNP_P4_169427_5743	NW_004516989.1	Scaffold1912	5743	TT	GG	1947023529
SNP_P4_169428_5779	NW_004516989.1	Scaffold1912	5779	TT	AA	1947023531
SNP_P4_169429_5908	NW_004516989.1	Scaffold1912	5908	CC	GG	1947023533
SNP_P4_169430_8024	NW_004516989.1	Scaffold1912	8024	AA	GG	1947023535
SNP_P4_169431_8200	NW_004516989.1	Scaffold1912	8200	AA	CC	1947023537
SNP_P4_169432_8413	NW_004516989.1	Scaffold1912	8413	AA	CC	1947023539
SNP_P4_169433_15624	NW_004516989.1	Scaffold1912	15624	CC	AA	1947023541
SNP_P4_169434_16228	NW_004516989.1	Scaffold1912	16228	TT	AA	1947023544
SNP_P4_169435_16248	NW_004516989.1	Scaffold1912	16248	TT	AA	1947023546
SNP_P4_169436_16266	NW_004516989.1	Scaffold1912	16266	GG	AA	1947023548
SNP_P4_169437_16333	NW_004516989.1	Scaffold1912	16333	AA	GG	1947023550
SNP_P4_169438_16482	NW_004516989.1	Scaffold1912	16482	TT	AA	1947023552
SNP_P4_169439_4940	NW_004516990.1	Scaffold1913	4940	GG	AA	1947023554
SNP_P4_169440_59752	NW_004516994.1	Scaffold1918	59752	CC	TT	1947023556
SNP_P4_169441_59885	NW_004516994.1	Scaffold1918	59885	GG	AA	1947023558
SNP_P4_169442_60735	NW_004516994.1	Scaffold1918	60735	GG	AA	1947023560
SNP_P4_169443_93789	NW_004516994.1	Scaffold1918	93789	AA	GG	1947023562
SNP_P4_169444_93818	NW_004516994.1	Scaffold1918	93818	TT	GG	1947023564

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_169445_94072	NW_004516994.1	Scaffold1918	94072	TT	CC	1947023566
SNP_P4_169446_94157	NW_004516994.1	Scaffold1918	94157	AA	GG	1947023569
SNP_P4_169447_94203	NW_004516994.1	Scaffold1918	94203	AA	GG	1947023571
SNP_P4_169448_96755	NW_004516994.1	Scaffold1918	96755	TT	CC	1947023573
SNP_P4_169449_102785	NW_004516994.1	Scaffold1918	102785	CC	TT	1947023575
SNP_P4_169450_115813	NW_004516994.1	Scaffold1918	115813	AA	GG	1947023577
SNP_P4_169451_115844	NW_004516994.1	Scaffold1918	115844	AA	GG	1947023579
SNP_P4_169452_116102	NW_004516994.1	Scaffold1918	116102	AA	GG	1947023581
SNP_P4_169453_123277	NW_004516994.1	Scaffold1918	123277	GG	AA	1947023583
SNP_P4_169454_123382	NW_004516994.1	Scaffold1918	123382	GG	AA	1947023585
SNP_P4_169455_126159	NW_004516994.1	Scaffold1918	126159	TT	CC	1947023587
SNP_P4_169456_172302	NW_004516994.1	Scaffold1918	172302	CC	TT	1947023589
SNP_P4_169457_172317	NW_004516994.1	Scaffold1918	172317	CC	TT	1947023591
SNP_P4_169458_172995	NW_004516994.1	Scaffold1918	172995	AA	GG	1947023593
SNP_P4_169459_173058	NW_004516994.1	Scaffold1918	173058	CC	GG	1947023595
SNP_P4_169460_173293	NW_004516994.1	Scaffold1918	173293	TT	GG	1947023598
SNP_P4_169461_176770	NW_004516994.1	Scaffold1918	176770	CC	AA	1947023600
SNP_P4_169462_176841	NW_004516994.1	Scaffold1918	176841	TT	GG	1947023602
SNP_P4_169463_185943	NW_004516994.1	Scaffold1918	185943	TT	AA	1947023604
SNP_P4_169464_185947	NW_004516994.1	Scaffold1918	185947	TT	AA	1947023606
SNP_P4_169465_205667	NW_004516994.1	Scaffold1918	205667	GG	AA	1947023608
SNP_P4_169466_205702	NW_004516994.1	Scaffold1918	205702	GG	AA	1947023610
SNP_P4_169467_205722	NW_004516994.1	Scaffold1918	205722	CC	TT	1947023612
SNP_P4_169469_213693	NW_004516994.1	Scaffold1918	213693	TT	CC	1947023614
SNP_P4_169470_213722	NW_004516994.1	Scaffold1918	213722	TT	GG	1947023617
SNP_P4_169471_220968	NW_004516994.1	Scaffold1918	220968	AA	GG	1947023619
SNP_P4_169472_235199	NW_004516994.1	Scaffold1918	235199	TT	GG	1947023621
SNP_P4_169473_235556	NW_004516994.1	Scaffold1918	235556	GG	AA	1947023623
SNP_P4_169474_235577	NW_004516994.1	Scaffold1918	235577	CC	AA	1947023625
SNP_P4_169475_235975	NW_004516994.1	Scaffold1918	235975	TT	CC	1947023627
SNP_P4_169476_235978	NW_004516994.1	Scaffold1918	235978	GG	AA	1947023629
SNP_P4_169477_236028	NW_004516994.1	Scaffold1918	236028	TT	CC	1947023631
SNP_P4_169478_236057	NW_004516994.1	Scaffold1918	236057	AA	GG	1947023633
SNP_P4_169479_236063	NW_004516994.1	Scaffold1918	236063	TT	CC	1947023635
SNP_P4_169480_236376	NW_004516994.1	Scaffold1918	236376	GG	AA	1947023637
SNP_P4_169481_236429	NW_004516994.1	Scaffold1918	236429	GG	AA	1947023639
SNP_P4_169482_236442	NW_004516994.1	Scaffold1918	236442	TT	AA	1947023641
SNP_P4_169483_239083	NW_004516994.1	Scaffold1918	239083	TT	AA	1947023643
SNP_P4_169484_239534	NW_004516994.1	Scaffold1918	239534	TT	CC	1947023645
SNP_P4_169485_239537	NW_004516994.1	Scaffold1918	239537	TT	AA	1947023647
SNP_P4_169486_255798	NW_004516994.1	Scaffold1918	255798	AA	CC	1947023649
SNP_P4_169487_255800	NW_004516994.1	Scaffold1918	255800	GG	AA	1947023651

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_169488_261760	NW_004516994.1	Scaffold1918	261760	GG	AA	1947023654
SNP_P4_169489_261886	NW_004516994.1	Scaffold1918	261886	CC	AA	1947023656
SNP_P4_169490_2463	NW_004516995.1	Scaffold1919	2463	AA	CC	1947023658
SNP_P4_169491_4470	NW_004516995.1	Scaffold1919	4470	CC	TT	1947023660
SNP_P4_169492_4471	NW_004516995.1	Scaffold1919	4471	TT	AA	1947023662
SNP_P4_169493_4867	NW_004516995.1	Scaffold1919	4867	GG	AA	1947023664
SNP_P4_169494_4918	NW_004516995.1	Scaffold1919	4918	AA	GG	1947023666
SNP_P4_169495_5042	NW_004516995.1	Scaffold1919	5042	CC	TT	1947023668
SNP_P4_169496_5065	NW_004516995.1	Scaffold1919	5065	CC	TT	1947023670
SNP_P4_169497_5162	NW_004516995.1	Scaffold1919	5162	GG	AA	1947023672
SNP_P4_169498_4879	NW_004516996.1	Scaffold1920	4879	CC	GG	1947023674
SNP_P4_169500_4933	NW_004516996.1	Scaffold1920	4933	GG	AA	1947023676
SNP_P4_169501_4943	NW_004516996.1	Scaffold1920	4943	TT	CC	1947023678
SNP_P4_169502_8573	NW_004516996.1	Scaffold1920	8573	CC	AA	1947023680
SNP_P4_169503_8574	NW_004516996.1	Scaffold1920	8574	CC	AA	1947023682
SNP_P4_169505_8751	NW_004516996.1	Scaffold1920	8751	AA	TT	1947023684
SNP_P4_169506_8859	NW_004516996.1	Scaffold1920	8859	AA	TT	1947023686
SNP_P4_169507_10063	NW_004516996.1	Scaffold1920	10063	CC	AA	1947023688
SNP_P4_169508_10102	NW_004516996.1	Scaffold1920	10102	TT	CC	1947023690
SNP_P4_169509_10232	NW_004516996.1	Scaffold1920	10232	TT	AA	1947023692
SNP_P4_169510_10407	NW_004516996.1	Scaffold1920	10407	CC	TT	1947023694
SNP_P4_169511_10477	NW_004516996.1	Scaffold1920	10477	CC	TT	1947023696
SNP_P4_169512_10478	NW_004516996.1	Scaffold1920	10478	TT	CC	1947023698
SNP_P4_169513_14638	NW_004516996.1	Scaffold1920	14638	GG	AA	1947023700
SNP_P4_169514_14690	NW_004516996.1	Scaffold1920	14690	AA	TT	1947023702
SNP_P4_169515_16196	NW_004516996.1	Scaffold1920	16196	TT	GG	1947023704
SNP_P4_169516_20323	NW_004516996.1	Scaffold1920	20323	GG	AA	1947023706
SNP_P4_169517_20641	NW_004516996.1	Scaffold1920	20641	GG	AA	1947023708
SNP_P4_169518_20659	NW_004516996.1	Scaffold1920	20659	TT	CC	1947023710
SNP_P4_169519_20668	NW_004516996.1	Scaffold1920	20668	CC	TT	1947023712
SNP_P4_169520_20674	NW_004516996.1	Scaffold1920	20674	CC	AA	1947023714
SNP_P4_169521_21284	NW_004516996.1	Scaffold1920	21284	GG	AA	1947023716
SNP_P4_169522_21290	NW_004516996.1	Scaffold1920	21290	AA	CC	1947023718
SNP_P4_169523_21302	NW_004516996.1	Scaffold1920	21302	AA	GG	1947023720
SNP_P4_169524_24430	NW_004516996.1	Scaffold1920	24430	CC	AA	1947023722
SNP_P4_169525_25458	NW_004516996.1	Scaffold1920	25458	CC	TT	1947023724
SNP_P4_169526_1437	NW_004516998.1	Scaffold1923	1437	CC	TT	1947023726
SNP_P4_169527_1751	NW_004516998.1	Scaffold1923	1751	CC	AA	1947023728
SNP_P4_169528_1815	NW_004516998.1	Scaffold1923	1815	CC	TT	1947023730
SNP_P4_169529_2334	NW_004516998.1	Scaffold1923	2334	GG	AA	1947023732
SNP_P4_169530_3772	NW_004516998.1	Scaffold1923	3772	GG	AA	1947023734
SNP_P4_169531_10394	NW_004516998.1	Scaffold1923	10394	AA	TT	1947023736

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_169532_10669	NW_004516998.1	Scaffold1923	10669	GG	AA	1947023738
SNP_P4_169534_10835	NW_004516998.1	Scaffold1923	10835	TT	AA	1947023740
SNP_P4_169535_1865	NW_004517001.1	Scaffold1928	1865	AA	CC	1947023742
SNP_P4_169536_2421	NW_004517001.1	Scaffold1928	2421	GG	CC	1947023744
SNP_P4_169537_3661	NW_004517001.1	Scaffold1928	3661	CC	GG	1947023746
SNP_P4_169538_3666	NW_004517001.1	Scaffold1928	3666	TT	AA	1947023748
SNP_P4_169540_3916	NW_004517001.1	Scaffold1928	3916	CC	TT	1947023750
SNP_P4_169541_3932	NW_004517001.1	Scaffold1928	3932	CC	TT	1947023752
SNP_P4_169542_3995	NW_004517001.1	Scaffold1928	3995	AA	CC	1947023754
SNP_P4_169543_4040	NW_004517001.1	Scaffold1928	4040	TT	AA	1947023756
SNP_P4_169544_15924	NW_004517001.1	Scaffold1928	15924	GG	TT	1947023758
SNP_P4_169546_15975	NW_004517001.1	Scaffold1928	15975	AA	GG	1947023760
SNP_P4_169547_16313	NW_004517001.1	Scaffold1928	16313	GG	AA	1947023762
SNP_P4_169548_19698	NW_004517001.1	Scaffold1928	19698	TT	AA	1947023764
SNP_P4_169549_50159	NW_004517001.1	Scaffold1928	50159	CC	TT	1947023766
SNP_P4_169550_50514	NW_004517001.1	Scaffold1928	50514	AA	GG	1947023768
SNP_P4_169551_67991	NW_004517001.1	Scaffold1928	67991	CC	TT	1947023770
SNP_P4_169552_68102	NW_004517001.1	Scaffold1928	68102	AA	GG	1947023772
SNP_P4_169553_68445	NW_004517001.1	Scaffold1928	68445	TT	CC	1947023774
SNP_P4_169555_78187	NW_004517001.1	Scaffold1928	78187	CC	TT	1947023776
SNP_P4_169556_78237	NW_004517001.1	Scaffold1928	78237	CC	TT	1947023778
SNP_P4_169557_78296	NW_004517001.1	Scaffold1928	78296	GG	AA	1947023780
SNP_P4_169558_78429	NW_004517001.1	Scaffold1928	78429	TT	AA	1947023782
SNP_P4_169559_78673	NW_004517001.1	Scaffold1928	78673	TT	CC	1947023784
SNP_P4_169560_80783	NW_004517001.1	Scaffold1928	80783	TT	GG	1947023786
SNP_P4_169561_80786	NW_004517001.1	Scaffold1928	80786	CC	AA	1947023788
SNP_P4_169564_118384	NW_004517001.1	Scaffold1928	118384	TT	CC	1947023790
SNP_P4_169565_133811	NW_004517001.1	Scaffold1928	133811	GG	AA	1947023792
SNP_P4_169566_133827	NW_004517001.1	Scaffold1928	133827	CC	AA	1947023794
SNP_P4_169567_1644	NW_004517003.1	Scaffold1930	1644	AA	CC	1947023796
SNP_P4_169568_1664	NW_004517003.1	Scaffold1930	1664	CC	GG	1947023798
SNP_P4_169569_1693	NW_004517003.1	Scaffold1930	1693	CC	TT	1947023800
SNP_P4_169570_1705	NW_004517003.1	Scaffold1930	1705	GG	AA	1947023802
SNP_P4_169571_1713	NW_004517003.1	Scaffold1930	1713	CC	TT	1947023804
SNP_P4_169572_23982	NW_004517003.1	Scaffold1930	23982	AA	GG	1947023806
SNP_P4_169573_31695	NW_004517003.1	Scaffold1930	31695	AA	GG	1947023808
SNP_P4_169574_31724	NW_004517003.1	Scaffold1930	31724	CC	AA	1947023810
SNP_P4_169575_32450	NW_004517003.1	Scaffold1930	32450	AA	TT	1947023812
SNP_P4_169576_32547	NW_004517003.1	Scaffold1930	32547	GG	CC	1947023814
SNP_P4_169577_32696	NW_004517003.1	Scaffold1930	32696	GG	TT	1947023816
SNP_P4_169578_32986	NW_004517003.1	Scaffold1930	32986	CC	AA	1947023818
SNP_P4_169579_33010	NW_004517003.1	Scaffold1930	33010	GG	CC	1947023820

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_169580_33011	NW_004517003.1	Scaffold1930	33011	AA	GG	1947023822
SNP_P4_169582_35906	NW_004517003.1	Scaffold1930	35906	CC	AA	1947023824
SNP_P4_169583_37276	NW_004517003.1	Scaffold1930	37276	TT	CC	1947023826
SNP_P4_169584_37319	NW_004517003.1	Scaffold1930	37319	CC	AA	1947023828
SNP_P4_169585_37332	NW_004517003.1	Scaffold1930	37332	GG	TT	1947023830
SNP_P4_169586_37374	NW_004517003.1	Scaffold1930	37374	CC	TT	1947023832
SNP_P4_169587_37421	NW_004517003.1	Scaffold1930	37421	TT	CC	1947023834
SNP_P4_169588_37508	NW_004517003.1	Scaffold1930	37508	TT	AA	1947023836
SNP_P4_169589_37509	NW_004517003.1	Scaffold1930	37509	AA	GG	1947023838
SNP_P4_169590_37596	NW_004517003.1	Scaffold1930	37596	TT	CC	1947023840
SNP_P4_169591_37623	NW_004517003.1	Scaffold1930	37623	TT	AA	1947023842
SNP_P4_169592_37738	NW_004517003.1	Scaffold1930	37738	AA	TT	1947023844
SNP_P4_169593_37762	NW_004517003.1	Scaffold1930	37762	TT	CC	1947023846
SNP_P4_169594_37811	NW_004517003.1	Scaffold1930	37811	TT	GG	1947023848
SNP_P4_169595_37822	NW_004517003.1	Scaffold1930	37822	TT	CC	1947023850
SNP_P4_169596_37824	NW_004517003.1	Scaffold1930	37824	AA	GG	1947023852
SNP_P4_169597_37898	NW_004517003.1	Scaffold1930	37898	GG	AA	1947023854
SNP_P4_169598_38447	NW_004517003.1	Scaffold1930	38447	AA	GG	1947023856
SNP_P4_169599_38448	NW_004517003.1	Scaffold1930	38448	TT	AA	1947023858
SNP_P4_169600_38450	NW_004517003.1	Scaffold1930	38450	CC	TT	1947023860
SNP_P4_169601_38481	NW_004517003.1	Scaffold1930	38481	GG	TT	1947023862
SNP_P4_169602_38552	NW_004517003.1	Scaffold1930	38552	GG	CC	1947023864
SNP_P4_169603_39297	NW_004517003.1	Scaffold1930	39297	GG	AA	1947023866
SNP_P4_169604_40169	NW_004517003.1	Scaffold1930	40169	CC	TT	1947023868
SNP_P4_169605_40246	NW_004517003.1	Scaffold1930	40246	CC	TT	1947023870
SNP_P4_169606_40272	NW_004517003.1	Scaffold1930	40272	GG	AA	1947023872
SNP_P4_169608_40381	NW_004517003.1	Scaffold1930	40381	TT	GG	1947023874
SNP_P4_169609_40407	NW_004517003.1	Scaffold1930	40407	GG	TT	1947023876
SNP_P4_169610_40485	NW_004517003.1	Scaffold1930	40485	CC	GG	1947023878
SNP_P4_169611_40493	NW_004517003.1	Scaffold1930	40493	GG	TT	1947023880
SNP_P4_169612_41515	NW_004517003.1	Scaffold1930	41515	TT	AA	1947023882
SNP_P4_169613_41531	NW_004517003.1	Scaffold1930	41531	TT	CC	1947023884
SNP_P4_169614_41718	NW_004517003.1	Scaffold1930	41718	GG	TT	1947023886
SNP_P4_169615_41833	NW_004517003.1	Scaffold1930	41833	GG	CC	1947023888
SNP_P4_169616_41846	NW_004517003.1	Scaffold1930	41846	TT	CC	1947023890
SNP_P4_169617_41998	NW_004517003.1	Scaffold1930	41998	GG	TT	1947023892
SNP_P4_169618_42087	NW_004517003.1	Scaffold1930	42087	TT	GG	1947023894
SNP_P4_169619_42360	NW_004517003.1	Scaffold1930	42360	AA	TT	1947023896
SNP_P4_169620_43820	NW_004517003.1	Scaffold1930	43820	GG	CC	1947023898
SNP_P4_169621_43842	NW_004517003.1	Scaffold1930	43842	CC	TT	1947023900
SNP_P4_169622_43855	NW_004517003.1	Scaffold1930	43855	GG	AA	1947023902
SNP_P4_169623_43862	NW_004517003.1	Scaffold1930	43862	AA	GG	1947023904

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_169624_43952	NW_004517003.1	Scaffold1930	43952	AA	GG	1947023906
SNP_P4_169626_45012	NW_004517003.1	Scaffold1930	45012	AA	GG	1947023908
SNP_P4_169627_45060	NW_004517003.1	Scaffold1930	45060	AA	TT	1947023910
SNP_P4_169628_45365	NW_004517003.1	Scaffold1930	45365	AA	CC	1947023912
SNP_P4_169629_45675	NW_004517003.1	Scaffold1930	45675	TT	CC	1947023914
SNP_P4_169630_59805	NW_004517003.1	Scaffold1930	59805	TT	CC	1947023916
SNP_P4_169631_60173	NW_004517003.1	Scaffold1930	60173	TT	GG	1947023918
SNP_P4_169632_42972	NW_004517005.1	Scaffold1932	42972	CC	TT	1947023920
SNP_P4_169633_42990	NW_004517005.1	Scaffold1932	42990	CC	TT	1947023922
SNP_P4_169634_42993	NW_004517005.1	Scaffold1932	42993	AA	GG	1947023924
SNP_P4_169635_43028	NW_004517005.1	Scaffold1932	43028	TT	CC	1947023926
SNP_P4_169636_43059	NW_004517005.1	Scaffold1932	43059	CC	TT	1947023928
SNP_P4_169637_59818	NW_004517005.1	Scaffold1932	59818	TT	GG	1947023930
SNP_P4_169638_66813	NW_004517005.1	Scaffold1932	66813	CC	GG	1947023932
SNP_P4_169639_73738	NW_004517005.1	Scaffold1932	73738	CC	TT	1947023934
SNP_P4_169640_77587	NW_004517005.1	Scaffold1932	77587	TT	CC	1947023936
SNP_P4_169641_77595	NW_004517005.1	Scaffold1932	77595	AA	CC	1947023938
SNP_P4_169642_77630	NW_004517005.1	Scaffold1932	77630	AA	GG	1947023940
SNP_P4_169643_77643	NW_004517005.1	Scaffold1932	77643	AA	CC	1947023942
SNP_P4_169644_77656	NW_004517005.1	Scaffold1932	77656	TT	AA	1947023944
SNP_P4_169645_77658	NW_004517005.1	Scaffold1932	77658	TT	CC	1947023946
SNP_P4_169646_77659	NW_004517005.1	Scaffold1932	77659	TT	GG	1947023947
SNP_P4_169647_77666	NW_004517005.1	Scaffold1932	77666	TT	GG	1947023949
SNP_P4_169648_77711	NW_004517005.1	Scaffold1932	77711	GG	AA	1947023951
SNP_P4_169649_82769	NW_004517005.1	Scaffold1932	82769	AA	GG	1947023953
SNP_P4_169650_82774	NW_004517005.1	Scaffold1932	82774	CC	TT	1947023955
SNP_P4_169651_83153	NW_004517005.1	Scaffold1932	83153	AA	GG	1947023957
SNP_P4_169652_83183	NW_004517005.1	Scaffold1932	83183	AA	GG	1947023958
SNP_P4_169653_83209	NW_004517005.1	Scaffold1932	83209	CC	AA	1947023960
SNP_P4_169654_83220	NW_004517005.1	Scaffold1932	83220	CC	AA	1947023962
SNP_P4_169655_83245	NW_004517005.1	Scaffold1932	83245	GG	AA	1947023964
SNP_P4_169656_347	NW_004517006.1	Scaffold1933	347	GG	AA	1947023966
SNP_P4_169657_488	NW_004517007.1	Scaffold1934	488	TT	CC	1947023968
SNP_P4_169658_489	NW_004517007.1	Scaffold1934	489	TT	CC	1947023970
SNP_P4_169659_7206	NW_004517010.1	Scaffold1937	7206	CC	AA	1947023972
SNP_P4_169660_236	NW_004517013.1	Scaffold1940	236	GG	CC	1947023974
SNP_P4_169661_546	NW_004517013.1	Scaffold1940	546	AA	GG	1947023976
SNP_P4_169662_5320	NW_004517015.1	Scaffold1942	5320	GG	CC	1947023978
SNP_P4_169663_5323	NW_004517015.1	Scaffold1942	5323	AA	CC	1947023980
SNP_P4_169664_5326	NW_004517015.1	Scaffold1942	5326	GG	CC	1947023982
SNP_P4_169665_5332	NW_004517015.1	Scaffold1942	5332	CC	TT	1947023984
SNP_P4_169666_5334	NW_004517015.1	Scaffold1942	5334	GG	AA	1947023986

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_169667_116	NW_004517016.1	Scaffold1943	116	CC	TT	1947023988
SNP_P4_169668_121	NW_004517016.1	Scaffold1943	121	CC	TT	1947023990
SNP_P4_169669_218	NW_004517016.1	Scaffold1943	218	GG	CC	1947023992
SNP_P4_169670_278	NW_004517016.1	Scaffold1943	278	AA	GG	1947023994
SNP_P4_169671_436	NW_004517016.1	Scaffold1943	436	CC	AA	1947023996
SNP_P4_169672_560	NW_004517016.1	Scaffold1943	560	TT	GG	1947023998
SNP_P4_169673_2329	NW_004517016.1	Scaffold1943	2329	GG	AA	1947024001
SNP_P4_169674_2350	NW_004517016.1	Scaffold1943	2350	AA	CC	1947024003
SNP_P4_169675_2415	NW_004517016.1	Scaffold1943	2415	TT	CC	1947024005
SNP_P4_169676_2417	NW_004517016.1	Scaffold1943	2417	TT	GG	1947024007
SNP_P4_169677_2421	NW_004517016.1	Scaffold1943	2421	TT	CC	1947024009
SNP_P4_169678_2450	NW_004517016.1	Scaffold1943	2450	TT	CC	1947024011
SNP_P4_169679_2451	NW_004517016.1	Scaffold1943	2451	CC	TT	1947024013
SNP_P4_169680_2457	NW_004517016.1	Scaffold1943	2457	TT	AA	1947024015
SNP_P4_169681_2497	NW_004517016.1	Scaffold1943	2497	CC	TT	1947024017
SNP_P4_169682_2541	NW_004517016.1	Scaffold1943	2541	GG	CC	1947024019
SNP_P4_169683_2555	NW_004517016.1	Scaffold1943	2555	TT	GG	1947024021
SNP_P4_169684_2556	NW_004517016.1	Scaffold1943	2556	TT	CC	1947024023
SNP_P4_169685_2603	NW_004517016.1	Scaffold1943	2603	TT	CC	1947024025
SNP_P4_169686_2942	NW_004517016.1	Scaffold1943	2942	CC	TT	1947024027
SNP_P4_169688_3008	NW_004517016.1	Scaffold1943	3008	CC	AA	1947024029
SNP_P4_169689_4932	NW_004517016.1	Scaffold1943	4932	GG	AA	1947024031
SNP_P4_169690_12930	NW_004517016.1	Scaffold1943	12930	AA	CC	1947024033
SNP_P4_169691_13194	NW_004517016.1	Scaffold1943	13194	AA	GG	1947024035
SNP_P4_169692_24684	NW_004517016.1	Scaffold1943	24684	TT	CC	1947024038
SNP_P4_169693_59073	NW_004517016.1	Scaffold1943	59073	AA	GG	1947024040
SNP_P4_169694_59775	NW_004517016.1	Scaffold1943	59775	GG	AA	1947024042
SNP_P4_169695_94603	NW_004517016.1	Scaffold1943	94603	TT	CC	1947024044
SNP_P4_169696_94859	NW_004517016.1	Scaffold1943	94859	GG	AA	1947024046
SNP_P4_169698_106055	NW_004517016.1	Scaffold1943	106055	GG	AA	1947024048
SNP_P4_169699_110617	NW_004517016.1	Scaffold1943	110617	AA	TT	1947024050
SNP_P4_169700_111251	NW_004517016.1	Scaffold1943	111251	AA	GG	1947024052
SNP_P4_169701_116592	NW_004517016.1	Scaffold1943	116592	AA	CC	1947024054
SNP_P4_169702_121178	NW_004517016.1	Scaffold1943	121178	GG	AA	1947024056
SNP_P4_169703_121193	NW_004517016.1	Scaffold1943	121193	CC	TT	1947024058
SNP_P4_169704_121195	NW_004517016.1	Scaffold1943	121195	GG	TT	1947024060
SNP_P4_169705_121198	NW_004517016.1	Scaffold1943	121198	TT	GG	1947024062
SNP_P4_169706_121228	NW_004517016.1	Scaffold1943	121228	CC	AA	1947024064
SNP_P4_169707_121231	NW_004517016.1	Scaffold1943	121231	TT	CC	1947024066
SNP_P4_169709_121482	NW_004517016.1	Scaffold1943	121482	TT	CC	1947024068
SNP_P4_169710_121587	NW_004517016.1	Scaffold1943	121587	AA	GG	1947024070
SNP_P4_169711_121633	NW_004517016.1	Scaffold1943	121633	TT	CC	1947024072

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_169712_123259	NW_004517016.1	Scaffold1943	123259	TT	GG	1947024074
SNP_P4_169713_123277	NW_004517016.1	Scaffold1943	123277	TT	CC	1947024076
SNP_P4_169714_123310	NW_004517016.1	Scaffold1943	123310	CC	TT	1947024078
SNP_P4_169715_123427	NW_004517016.1	Scaffold1943	123427	GG	AA	1947024080
SNP_P4_169716_123439	NW_004517016.1	Scaffold1943	123439	CC	TT	1947024082
SNP_P4_169717_123469	NW_004517016.1	Scaffold1943	123469	CC	AA	1947024084
SNP_P4_169718_123472	NW_004517016.1	Scaffold1943	123472	GG	AA	1947024086
SNP_P4_169719_123495	NW_004517016.1	Scaffold1943	123495	AA	GG	1947024088
SNP_P4_169720_123496	NW_004517016.1	Scaffold1943	123496	GG	AA	1947024091
SNP_P4_169721_123524	NW_004517016.1	Scaffold1943	123524	TT	CC	1947024093
SNP_P4_169722_123532	NW_004517016.1	Scaffold1943	123532	TT	AA	1947024095
SNP_P4_169723_123535	NW_004517016.1	Scaffold1943	123535	AA	GG	1947024097
SNP_P4_169724_123538	NW_004517016.1	Scaffold1943	123538	GG	AA	1947024099
SNP_P4_169725_123778	NW_004517016.1	Scaffold1943	123778	CC	TT	1947024101
SNP_P4_169726_127048	NW_004517016.1	Scaffold1943	127048	GG	AA	1947024103
SNP_P4_169727_127056	NW_004517016.1	Scaffold1943	127056	CC	TT	1947024105
SNP_P4_169728_127385	NW_004517016.1	Scaffold1943	127385	CC	TT	1947024107
SNP_P4_169729_127475	NW_004517016.1	Scaffold1943	127475	CC	AA	1947024109
SNP_P4_169730_127508	NW_004517016.1	Scaffold1943	127508	CC	TT	1947024111
SNP_P4_169731_127523	NW_004517016.1	Scaffold1943	127523	TT	CC	1947024113
SNP_P4_169732_127541	NW_004517016.1	Scaffold1943	127541	CC	AA	1947024115
SNP_P4_169733_128136	NW_004517016.1	Scaffold1943	128136	TT	CC	1947024117
SNP_P4_169734_132236	NW_004517016.1	Scaffold1943	132236	GG	AA	1947024119
SNP_P4_169735_136928	NW_004517016.1	Scaffold1943	136928	TT	CC	1947024121
SNP_P4_169736_141206	NW_004517016.1	Scaffold1943	141206	TT	CC	1947024123
SNP_P4_169737_151027	NW_004517016.1	Scaffold1943	151027	AA	TT	1947024125
SNP_P4_169738_159067	NW_004517016.1	Scaffold1943	159067	CC	GG	1947024127
SNP_P4_169739_163339	NW_004517016.1	Scaffold1943	163339	TT	GG	1947024129
SNP_P4_169740_163701	NW_004517016.1	Scaffold1943	163701	AA	GG	1947024131
SNP_P4_169741_163876	NW_004517016.1	Scaffold1943	163876	TT	AA	1947024133
SNP_P4_169742_171758	NW_004517016.1	Scaffold1943	171758	GG	TT	1947024135
SNP_P4_169743_171930	NW_004517016.1	Scaffold1943	171930	GG	AA	1947024137
SNP_P4_169744_171934	NW_004517016.1	Scaffold1943	171934	AA	GG	1947024139
SNP_P4_169745_171946	NW_004517016.1	Scaffold1943	171946	AA	GG	1947024141
SNP_P4_169746_177869	NW_004517016.1	Scaffold1943	177869	CC	TT	1947024143
SNP_P4_169747_179455	NW_004517016.1	Scaffold1943	179455	CC	TT	1947024145
SNP_P4_169748_179569	NW_004517016.1	Scaffold1943	179569	CC	AA	1947024147
SNP_P4_169749_179580	NW_004517016.1	Scaffold1943	179580	CC	AA	1947024149
SNP_P4_169752_193959	NW_004517016.1	Scaffold1943	193959	AA	GG	1947024151
SNP_P4_169753_199116	NW_004517016.1	Scaffold1943	199116	GG	CC	1947024153
SNP_P4_169754_201015	NW_004517016.1	Scaffold1943	201015	GG	AA	1947024155
SNP_P4_169755_206824	NW_004517016.1	Scaffold1943	206824	TT	CC	1947024157

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_169757_212422	NW_004517016.1	Scaffold1943	212422	TT	CC	1947024161
SNP_P4_169758_218211	NW_004517016.1	Scaffold1943	218211	CC	TT	1947024163
SNP_P4_169759_220910	NW_004517016.1	Scaffold1943	220910	CC	TT	1947024165
SNP_P4_169760_223181	NW_004517016.1	Scaffold1943	223181	TT	AA	1947024167
SNP_P4_169761_230201	NW_004517016.1	Scaffold1943	230201	TT	AA	1947024169
SNP_P4_169762_230202	NW_004517016.1	Scaffold1943	230202	CC	AA	1947024171
SNP_P4_169763_234717	NW_004517016.1	Scaffold1943	234717	TT	CC	1947024173
SNP_P4_169764_234721	NW_004517016.1	Scaffold1943	234721	TT	CC	1947024175
SNP_P4_169765_234895	NW_004517016.1	Scaffold1943	234895	GG	AA	1947024177
SNP_P4_169766_237410	NW_004517016.1	Scaffold1943	237410	AA	GG	1947024179
SNP_P4_169769_254153	NW_004517016.1	Scaffold1943	254153	GG	AA	1947024181
SNP_P4_169770_259101	NW_004517016.1	Scaffold1943	259101	GG	AA	1947024183
SNP_P4_169771_266263	NW_004517016.1	Scaffold1943	266263	GG	AA	1947024185
SNP_P4_169772_281222	NW_004517016.1	Scaffold1943	281222	CC	TT	1947024187
SNP_P4_169773_281550	NW_004517016.1	Scaffold1943	281550	AA	GG	1947024189
SNP_P4_169775_281594	NW_004517016.1	Scaffold1943	281594	AA	GG	1947024191
SNP_P4_169776_281599	NW_004517016.1	Scaffold1943	281599	AA	GG	1947024193
SNP_P4_169777_281629	NW_004517016.1	Scaffold1943	281629	GG	TT	1947024195
SNP_P4_169778_281684	NW_004517016.1	Scaffold1943	281684	GG	AA	1947024197
SNP_P4_169779_281687	NW_004517016.1	Scaffold1943	281687	TT	GG	1947024199
SNP_P4_169780_281925	NW_004517016.1	Scaffold1943	281925	GG	AA	1947024201
SNP_P4_169781_281955	NW_004517016.1	Scaffold1943	281955	TT	AA	1947024203
SNP_P4_169783_282625	NW_004517016.1	Scaffold1943	282625	AA	GG	1947024205
SNP_P4_169784_282638	NW_004517016.1	Scaffold1943	282638	CC	TT	1947024208
SNP_P4_169785_282676	NW_004517016.1	Scaffold1943	282676	AA	GG	1947024210
SNP_P4_169786_294850	NW_004517016.1	Scaffold1943	294850	TT	CC	1947024212
SNP_P4_169787_309962	NW_004517016.1	Scaffold1943	309962	AA	GG	1947024214
SNP_P4_169788_327078	NW_004517016.1	Scaffold1943	327078	TT	AA	1947024216
SNP_P4_169789_338056	NW_004517016.1	Scaffold1943	338056	TT	CC	1947024218
SNP_P4_169790_338106	NW_004517016.1	Scaffold1943	338106	TT	AA	1947024220
SNP_P4_169792_359575	NW_004517016.1	Scaffold1943	359575	CC	AA	1947024222
SNP_P4_169793_361905	NW_004517016.1	Scaffold1943	361905	AA	GG	1947024224
SNP_P4_169794_362551	NW_004517016.1	Scaffold1943	362551	CC	TT	1947024226
SNP_P4_169796_368140	NW_004517016.1	Scaffold1943	368140	AA	GG	1947024228
SNP_P4_169797_369200	NW_004517016.1	Scaffold1943	369200	GG	TT	1947024230
SNP_P4_169798_369388	NW_004517016.1	Scaffold1943	369388	AA	TT	1947024232
SNP_P4_169799_376590	NW_004517016.1	Scaffold1943	376590	AA	TT	1947024234
SNP_P4_169800_377184	NW_004517016.1	Scaffold1943	377184	TT	CC	1947024236
SNP_P4_169801_382926	NW_004517016.1	Scaffold1943	382926	CC	TT	1947024238
SNP_P4_169802_385843	NW_004517016.1	Scaffold1943	385843	TT	CC	1947024240
SNP_P4_169803_390429	NW_004517016.1	Scaffold1943	390429	TT	GG	1947024242

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_169804_390657	NW_004517016.1	Scaffold1943	390657	GG	AA	1947024244
SNP_P4_169805_392407	NW_004517016.1	Scaffold1943	392407	GG	AA	1947024246
SNP_P4_169806_392555	NW_004517016.1	Scaffold1943	392555	AA	GG	1947024248
SNP_P4_169807_392578	NW_004517016.1	Scaffold1943	392578	TT	CC	1947024250
SNP_P4_169808_392606	NW_004517016.1	Scaffold1943	392606	AA	GG	1947024252
SNP_P4_169809_392609	NW_004517016.1	Scaffold1943	392609	TT	AA	1947024254
SNP_P4_169810_393161	NW_004517016.1	Scaffold1943	393161	TT	GG	1947024256
SNP_P4_169811_393163	NW_004517016.1	Scaffold1943	393163	TT	AA	1947024258
SNP_P4_169812_393343	NW_004517016.1	Scaffold1943	393343	GG	AA	1947024260
SNP_P4_169813_393359	NW_004517016.1	Scaffold1943	393359	CC	TT	1947024262
SNP_P4_169815_394099	NW_004517016.1	Scaffold1943	394099	AA	CC	1947024264
SNP_P4_169816_394196	NW_004517016.1	Scaffold1943	394196	TT	CC	1947024267
SNP_P4_169817_394240	NW_004517016.1	Scaffold1943	394240	CC	TT	1947024269
SNP_P4_169818_394299	NW_004517016.1	Scaffold1943	394299	CC	TT	1947024271
SNP_P4_169819_394392	NW_004517016.1	Scaffold1943	394392	CC	TT	1947024273
SNP_P4_169820_394450	NW_004517016.1	Scaffold1943	394450	TT	AA	1947024275
SNP_P4_169821_394748	NW_004517016.1	Scaffold1943	394748	CC	AA	1947024277
SNP_P4_169822_394887	NW_004517016.1	Scaffold1943	394887	AA	TT	1947024279
SNP_P4_169823_395066	NW_004517016.1	Scaffold1943	395066	AA	GG	1947024281
SNP_P4_169824_395254	NW_004517016.1	Scaffold1943	395254	TT	CC	1947024283
SNP_P4_169825_395385	NW_004517016.1	Scaffold1943	395385	AA	TT	1947024285
SNP_P4_169826_395401	NW_004517016.1	Scaffold1943	395401	AA	GG	1947024287
SNP_P4_169827_395493	NW_004517016.1	Scaffold1943	395493	TT	CC	1947024289
SNP_P4_169828_395531	NW_004517016.1	Scaffold1943	395531	AA	TT	1947024291
SNP_P4_169829_395540	NW_004517016.1	Scaffold1943	395540	GG	AA	1947024293
SNP_P4_169830_395627	NW_004517016.1	Scaffold1943	395627	GG	AA	1947024295
SNP_P4_169831_395654	NW_004517016.1	Scaffold1943	395654	CC	TT	1947024297
SNP_P4_169832_396042	NW_004517016.1	Scaffold1943	396042	AA	CC	1947024299
SNP_P4_169833_396043	NW_004517016.1	Scaffold1943	396043	CC	AA	1947024301
SNP_P4_169835_4881	NW_004517017.1	Scaffold1944	4881	TT	CC	1947024303
SNP_P4_169840_11418	NW_004517018.1	Scaffold1945	11418	GG	AA	1947024305
SNP_P4_169841_11596	NW_004517018.1	Scaffold1945	11596	TT	CC	1947024307
SNP_P4_169842_11645	NW_004517018.1	Scaffold1945	11645	CC	TT	1947024309
SNP_P4_169843_11719	NW_004517018.1	Scaffold1945	11719	CC	TT	1947024311
SNP_P4_169844_11725	NW_004517018.1	Scaffold1945	11725	AA	GG	1947024313
SNP_P4_169845_11900	NW_004517018.1	Scaffold1945	11900	GG	AA	1947024315
SNP_P4_169846_11915	NW_004517018.1	Scaffold1945	11915	AA	GG	1947024317
SNP_P4_169849_24578	NW_004517018.1	Scaffold1945	24578	AA	CC	1947024319
SNP_P4_169850_31373	NW_004517018.1	Scaffold1945	31373	GG	AA	1947024321
SNP_P4_169851_31715	NW_004517018.1	Scaffold1945	31715	TT	AA	1947024323
SNP_P4_169853_40563	NW_004517018.1	Scaffold1945	40563	GG	TT	1947024325
SNP_P4_169854_40928	NW_004517018.1	Scaffold1945	40928	AA	CC	1947024327

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_169856_40943	NW_004517018.1	Scaffold1945	40943	AA	GG	1947024331
SNP_P4_169857_97815	NW_004517018.1	Scaffold1945	97815	GG	AA	1947024333
SNP_P4_169858_128801	NW_004517018.1	Scaffold1945	128801	CC	TT	1947024335
SNP_P4_169859_138211	NW_004517018.1	Scaffold1945	138211	AA	TT	1947024337
SNP_P4_169860_138213	NW_004517018.1	Scaffold1945	138213	GG	AA	1947024339
SNP_P4_169861_159286	NW_004517018.1	Scaffold1945	159286	TT	CC	1947024341
SNP_P4_169862_164109	NW_004517018.1	Scaffold1945	164109	AA	CC	1947024343
SNP_P4_169863_166669	NW_004517018.1	Scaffold1945	166669	TT	GG	1947024345
SNP_P4_169864_166917	NW_004517018.1	Scaffold1945	166917	AA	TT	1947024347
SNP_P4_169865_173113	NW_004517018.1	Scaffold1945	173113	CC	TT	1947024350
SNP_P4_169867_1314	NW_004517019.1	Scaffold1946	1314	TT	AA	1947024352
SNP_P4_169868_1400	NW_004517019.1	Scaffold1946	1400	TT	CC	1947024354
SNP_P4_169869_1649	NW_004517019.1	Scaffold1946	1649	TT	CC	1947024356
SNP_P4_169870_1887	NW_004517019.1	Scaffold1946	1887	TT	CC	1947024358
SNP_P4_169871_5232	NW_004517019.1	Scaffold1946	5232	GG	AA	1947024360
SNP_P4_169872_5513	NW_004517019.1	Scaffold1946	5513	CC	TT	1947024362
SNP_P4_169873_6511	NW_004517019.1	Scaffold1946	6511	AA	TT	1947024364
SNP_P4_169874_6550	NW_004517019.1	Scaffold1946	6550	GG	TT	1947024366
SNP_P4_169875_6823	NW_004517019.1	Scaffold1946	6823	GG	AA	1947024368
SNP_P4_169876_9783	NW_004517019.1	Scaffold1946	9783	AA	TT	1947024370
SNP_P4_169877_11583	NW_004517019.1	Scaffold1946	11583	CC	TT	1947024372
SNP_P4_169878_12732	NW_004517019.1	Scaffold1946	12732	CC	TT	1947024374
SNP_P4_169879_15479	NW_004517019.1	Scaffold1946	15479	AA	CC	1947024376
SNP_P4_169880_19939	NW_004517019.1	Scaffold1946	19939	CC	TT	1947024378
SNP_P4_169881_19948	NW_004517019.1	Scaffold1946	19948	TT	AA	1947024380
SNP_P4_169882_20239	NW_004517019.1	Scaffold1946	20239	TT	CC	1947024382
SNP_P4_169883_20243	NW_004517019.1	Scaffold1946	20243	TT	CC	1947024384
SNP_P4_169884_29973	NW_004517019.1	Scaffold1946	29973	GG	TT	1947024386
SNP_P4_169885_39895	NW_004517019.1	Scaffold1946	39895	AA	TT	1947024388
SNP_P4_169886_39970	NW_004517019.1	Scaffold1946	39970	CC	TT	1947024390
SNP_P4_169887_43802	NW_004517019.1	Scaffold1946	43802	AA	GG	1947024392
SNP_P4_169888_60068	NW_004517019.1	Scaffold1946	60068	CC	TT	1947024394
SNP_P4_169889_74833	NW_004517019.1	Scaffold1946	74833	AA	GG	1947024396
SNP_P4_169890_75106	NW_004517019.1	Scaffold1946	75106	GG	AA	1947024398
SNP_P4_169891_75562	NW_004517019.1	Scaffold1946	75562	TT	CC	1947024400
SNP_P4_169892_75596	NW_004517019.1	Scaffold1946	75596	TT	CC	1947024402
SNP_P4_169893_75804	NW_004517019.1	Scaffold1946	75804	TT	CC	1947024404
SNP_P4_169894_1465	NW_004517021.1	Scaffold1949	1465	TT	AA	1947024406
SNP_P4_169895_1466	NW_004517021.1	Scaffold1949	1466	AA	TT	1947024408
SNP_P4_169896_1549	NW_004517021.1	Scaffold1949	1549	GG	CC	1947024410
SNP_P4_169897_2027	NW_004517021.1	Scaffold1949	2027	TT	AA	1947024412

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_169898_5975	NW_004517021.1	Scaffold1949	5975	TT	GG	1947024414
SNP_P4_169899_5999	NW_004517021.1	Scaffold1949	5999	TT	CC	1947024416
SNP_P4_169900_6002	NW_004517021.1	Scaffold1949	6002	AA	GG	1947024418
SNP_P4_169901_2698	NW_004517022.1	Scaffold1950	2698	GG	TT	1947024420
SNP_P4_169902_22388	NW_004517022.1	Scaffold1950	22388	TT	AA	1947024422
SNP_P4_169903_22393	NW_004517022.1	Scaffold1950	22393	AA	TT	1947024424
SNP_P4_169904_22433	NW_004517022.1	Scaffold1950	22433	AA	GG	1947024426
SNP_P4_169905_22437	NW_004517022.1	Scaffold1950	22437	AA	TT	1947024428
SNP_P4_169906_22438	NW_004517022.1	Scaffold1950	22438	GG	AA	1947024430
SNP_P4_169907_22454	NW_004517022.1	Scaffold1950	22454	TT	GG	1947024432
SNP_P4_169908_443	NW_004517023.1	Scaffold1951	443	AA	TT	1947024434
SNP_P4_169909_2142	NW_004517023.1	Scaffold1951	2142	TT	AA	1947024436
SNP_P4_169910_14883	NW_004517024.1	Scaffold1952	14883	GG	TT	1947024438
SNP_P4_169911_784	NW_004517026.1	Scaffold1954	784	CC	GG	1947024440
SNP_P4_169912_799	NW_004517026.1	Scaffold1954	799	CC	TT	1947024442
SNP_P4_169913_863	NW_004517026.1	Scaffold1954	863	CC	TT	1947024444
SNP_P4_169914_908	NW_004517026.1	Scaffold1954	908	GG	AA	1947024446
SNP_P4_169915_931	NW_004517026.1	Scaffold1954	931	AA	CC	1947024448
SNP_P4_169916_941	NW_004517026.1	Scaffold1954	941	AA	GG	1947024450
SNP_P4_169917_1054	NW_004517026.1	Scaffold1954	1054	TT	AA	1947024452
SNP_P4_169918_1062	NW_004517026.1	Scaffold1954	1062	TT	CC	1947024454
SNP_P4_169920_1155	NW_004517026.1	Scaffold1954	1155	TT	CC	1947024456
SNP_P4_169921_1164	NW_004517026.1	Scaffold1954	1164	AA	TT	1947024458
SNP_P4_169922_1189	NW_004517026.1	Scaffold1954	1189	GG	AA	1947024460
SNP_P4_169923_1293	NW_004517026.1	Scaffold1954	1293	AA	TT	1947024462
SNP_P4_169924_1351	NW_004517026.1	Scaffold1954	1351	TT	GG	1947024464
SNP_P4_169925_1375	NW_004517026.1	Scaffold1954	1375	GG	AA	1947024466
SNP_P4_169926_1442	NW_004517026.1	Scaffold1954	1442	TT	AA	1947024468
SNP_P4_169927_1448	NW_004517026.1	Scaffold1954	1448	TT	AA	1947024470
SNP_P4_169928_1461	NW_004517026.1	Scaffold1954	1461	TT	CC	1947024472
SNP_P4_169929_1503	NW_004517026.1	Scaffold1954	1503	AA	TT	1947024474
SNP_P4_169930_1524	NW_004517026.1	Scaffold1954	1524	AA	GG	1947024476
SNP_P4_169931_1525	NW_004517026.1	Scaffold1954	1525	CC	TT	1947024478
SNP_P4_169932_1593	NW_004517026.1	Scaffold1954	1593	TT	GG	1947024480
SNP_P4_169934_2172	NW_004517026.1	Scaffold1954	2172	TT	AA	1947024482
SNP_P4_169935_2307	NW_004517026.1	Scaffold1954	2307	AA	GG	1947024484
SNP_P4_169936_2332	NW_004517026.1	Scaffold1954	2332	GG	AA	1947024486
SNP_P4_169938_2544	NW_004517026.1	Scaffold1954	2544	AA	GG	1947024488
SNP_P4_169939_2569	NW_004517026.1	Scaffold1954	2569	TT	AA	1947024490
SNP_P4_169940_2581	NW_004517026.1	Scaffold1954	2581	AA	CC	1947024492
SNP_P4_169941_4837	NW_004517026.1	Scaffold1954	4837	TT	AA	1947024494
SNP_P4_169942_4852	NW_004517026.1	Scaffold1954	4852	TT	CC	1947024496

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_169944_4879	NW_004517026.1	Scaffold1954	4879	AA	GG	1947024500
SNP_P4_169945_4933	NW_004517026.1	Scaffold1954	4933	CC	TT	1947024502
SNP_P4_169946_4949	NW_004517026.1	Scaffold1954	4949	TT	GG	1947024504
SNP_P4_169947_5093	NW_004517026.1	Scaffold1954	5093	GG	AA	1947024506
SNP_P4_169948_9313	NW_004517028.1	Scaffold1956	9313	AA	TT	1947024508
SNP_P4_169949_9716	NW_004517028.1	Scaffold1956	9716	TT	CC	1947024510
SNP_P4_169950_9794	NW_004517028.1	Scaffold1956	9794	TT	AA	1947024512
SNP_P4_169951_9826	NW_004517028.1	Scaffold1956	9826	CC	TT	1947024514
SNP_P4_169952_9910	NW_004517028.1	Scaffold1956	9910	GG	AA	1947024516
SNP_P4_169953_9935	NW_004517028.1	Scaffold1956	9935	AA	GG	1947024518
SNP_P4_169954_9976	NW_004517028.1	Scaffold1956	9976	TT	GG	1947024521
SNP_P4_169955_10021	NW_004517028.1	Scaffold1956	10021	GG	TT	1947024523
SNP_P4_169956_10129	NW_004517028.1	Scaffold1956	10129	AA	GG	1947024525
SNP_P4_169957_14129	NW_004517028.1	Scaffold1956	14129	TT	GG	1947024527
SNP_P4_169958_14186	NW_004517028.1	Scaffold1956	14186	TT	AA	1947024529
SNP_P4_169959_14223	NW_004517028.1	Scaffold1956	14223	CC	TT	1947024531
SNP_P4_169960_14271	NW_004517028.1	Scaffold1956	14271	TT	GG	1947024533
SNP_P4_169961_14276	NW_004517028.1	Scaffold1956	14276	AA	GG	1947024535
SNP_P4_169962_14296	NW_004517028.1	Scaffold1956	14296	GG	AA	1947024537
SNP_P4_169963_15865	NW_004517028.1	Scaffold1956	15865	CC	AA	1947024539
SNP_P4_169964_16540	NW_004517028.1	Scaffold1956	16540	GG	CC	1947024541
SNP_P4_169965_16866	NW_004517028.1	Scaffold1956	16866	GG	CC	1947024543
SNP_P4_169966_17018	NW_004517028.1	Scaffold1956	17018	TT	CC	1947024545
SNP_P4_169967_17064	NW_004517028.1	Scaffold1956	17064	CC	TT	1947024547
SNP_P4_169968_17112	NW_004517028.1	Scaffold1956	17112	AA	TT	1947024549
SNP_P4_169969_17605	NW_004517028.1	Scaffold1956	17605	TT	GG	1947024551
SNP_P4_169970_18425	NW_004517028.1	Scaffold1956	18425	CC	TT	1947024553
SNP_P4_169971_22342	NW_004517028.1	Scaffold1956	22342	CC	GG	1947024555
SNP_P4_169972_22730	NW_004517028.1	Scaffold1956	22730	GG	AA	1947024557
SNP_P4_169973_27556	NW_004517028.1	Scaffold1956	27556	TT	GG	1947024559
SNP_P4_169974_27557	NW_004517028.1	Scaffold1956	27557	GG	TT	1947024561
SNP_P4_169975_27791	NW_004517028.1	Scaffold1956	27791	AA	GG	1947024563
SNP_P4_169976_27834	NW_004517028.1	Scaffold1956	27834	TT	CC	1947024566
SNP_P4_169977_27871	NW_004517028.1	Scaffold1956	27871	CC	AA	1947024568
SNP_P4_169978_27887	NW_004517028.1	Scaffold1956	27887	TT	CC	1947024570
SNP_P4_169979_27974	NW_004517028.1	Scaffold1956	27974	GG	AA	1947024572
SNP_P4_169980_28022	NW_004517028.1	Scaffold1956	28022	AA	GG	1947024574
SNP_P4_169981_28043	NW_004517028.1	Scaffold1956	28043	TT	GG	1947024576
SNP_P4_169982_30833	NW_004517028.1	Scaffold1956	30833	AA	CC	1947024578
SNP_P4_169983_30858	NW_004517028.1	Scaffold1956	30858	TT	GG	1947024580
SNP_P4_169985_40746	NW_004517028.1	Scaffold1956	40746	GG	AA	1947024582

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_169987_40834	NW_004517028.1	Scaffold1956	40834	GG	AA	1947024586
SNP_P4_169988_46654	NW_004517028.1	Scaffold1956	46654	TT	CC	1947024588
SNP_P4_169989_46820	NW_004517028.1	Scaffold1956	46820	GG	AA	1947024590
SNP_P4_169990_46821	NW_004517028.1	Scaffold1956	46821	GG	AA	1947024592
SNP_P4_169991_46868	NW_004517028.1	Scaffold1956	46868	TT	CC	1947024594
SNP_P4_169992_50089	NW_004517028.1	Scaffold1956	50089	TT	CC	1947024596
SNP_P4_169993_50481	NW_004517028.1	Scaffold1956	50481	TT	GG	1947024598
SNP_P4_169994_50482	NW_004517028.1	Scaffold1956	50482	AA	TT	1947024600
SNP_P4_169995_52702	NW_004517028.1	Scaffold1956	52702	AA	TT	1947024602
SNP_P4_169996_52873	NW_004517028.1	Scaffold1956	52873	TT	CC	1947024604
SNP_P4_169997_54171	NW_004517028.1	Scaffold1956	54171	AA	TT	1947024606
SNP_P4_169998_63443	NW_004517028.1	Scaffold1956	63443	TT	CC	1947024608
SNP_P4_169999_63638	NW_004517028.1	Scaffold1956	63638	CC	TT	1947024610
SNP_P4_170001_72186	NW_004517028.1	Scaffold1956	72186	AA	TT	1947024612
SNP_P4_170002_72526	NW_004517028.1	Scaffold1956	72526	GG	TT	1947024614
SNP_P4_170003_72593	NW_004517028.1	Scaffold1956	72593	AA	CC	1947024616
SNP_P4_170004_85717	NW_004517028.1	Scaffold1956	85717	CC	TT	1947024618
SNP_P4_170005_85880	NW_004517028.1	Scaffold1956	85880	AA	TT	1947024620
SNP_P4_170006_85954	NW_004517028.1	Scaffold1956	85954	GG	TT	1947024622
SNP_P4_170007_85961	NW_004517028.1	Scaffold1956	85961	TT	GG	1947024624
SNP_P4_170008_86053	NW_004517028.1	Scaffold1956	86053	AA	CC	1947024626
SNP_P4_170009_86241	NW_004517028.1	Scaffold1956	86241	AA	GG	1947024628
SNP_P4_170010_87785	NW_004517028.1	Scaffold1956	87785	TT	AA	1947024630
SNP_P4_170011_87857	NW_004517028.1	Scaffold1956	87857	CC	GG	1947024632
SNP_P4_170012_88025	NW_004517028.1	Scaffold1956	88025	GG	AA	1947024633
SNP_P4_170013_88040	NW_004517028.1	Scaffold1956	88040	AA	CC	1947024634
SNP_P4_170014_88263	NW_004517028.1	Scaffold1956	88263	GG	TT	1947024635
SNP_P4_170015_88432	NW_004517028.1	Scaffold1956	88432	AA	GG	1947024636
SNP_P4_170016_88531	NW_004517028.1	Scaffold1956	88531	CC	AA	1947024637
SNP_P4_170017_88814	NW_004517028.1	Scaffold1956	88814	CC	TT	1947024638
SNP_P4_170018_93193	NW_004517028.1	Scaffold1956	93193	AA	GG	1947024639
SNP_P4_170019_93295	NW_004517028.1	Scaffold1956	93295	AA	GG	1947024640
SNP_P4_170020_93403	NW_004517028.1	Scaffold1956	93403	TT	CC	1947024641
SNP_P4_170021_93497	NW_004517028.1	Scaffold1956	93497	GG	AA	1947024642
SNP_P4_170022_93498	NW_004517028.1	Scaffold1956	93498	GG	CC	1947024643
SNP_P4_170023_93539	NW_004517028.1	Scaffold1956	93539	AA	GG	1947024644
SNP_P4_170024_93563	NW_004517028.1	Scaffold1956	93563	TT	CC	1947024645
SNP_P4_170025_93567	NW_004517028.1	Scaffold1956	93567	CC	AA	1947024646
SNP_P4_170026_93581	NW_004517028.1	Scaffold1956	93581	TT	CC	1947024647
SNP_P4_170027_93685	NW_004517028.1	Scaffold1956	93685	GG	TT	1947024648
SNP_P4_170028_94034	NW_004517028.1	Scaffold1956	94034	GG	TT	1947024649

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_170029_94133	NW_004517028.1	Scaffold1956	94133	TT	CC	1947024650
SNP_P4_170030_96638	NW_004517028.1	Scaffold1956	96638	TT	AA	1947024651
SNP_P4_170031_96658	NW_004517028.1	Scaffold1956	96658	TT	CC	1947024652
SNP_P4_170032_96732	NW_004517028.1	Scaffold1956	96732	GG	TT	1947024654
SNP_P4_170033_96733	NW_004517028.1	Scaffold1956	96733	AA	TT	1947024656
SNP_P4_170034_96881	NW_004517028.1	Scaffold1956	96881	AA	GG	1947024658
SNP_P4_170035_96918	NW_004517028.1	Scaffold1956	96918	GG	AA	1947024660
SNP_P4_170036_96963	NW_004517028.1	Scaffold1956	96963	TT	CC	1947024662
SNP_P4_170037_96966	NW_004517028.1	Scaffold1956	96966	CC	TT	1947024664
SNP_P4_170038_97227	NW_004517028.1	Scaffold1956	97227	TT	GG	1947024666
SNP_P4_170039_102522	NW_004517028.1	Scaffold1956	102522	TT	AA	1947024669
SNP_P4_170040_120035	NW_004517028.1	Scaffold1956	120035	CC	GG	1947024671
SNP_P4_170041_120038	NW_004517028.1	Scaffold1956	120038	CC	TT	1947024673
SNP_P4_170042_120081	NW_004517028.1	Scaffold1956	120081	AA	CC	1947024675
SNP_P4_170043_120492	NW_004517028.1	Scaffold1956	120492	TT	CC	1947024677
SNP_P4_170044_120493	NW_004517028.1	Scaffold1956	120493	GG	AA	1947024679
SNP_P4_170045_120502	NW_004517028.1	Scaffold1956	120502	AA	GG	1947024681
SNP_P4_170046_120522	NW_004517028.1	Scaffold1956	120522	AA	CC	1947024683
SNP_P4_170047_120552	NW_004517028.1	Scaffold1956	120552	CC	TT	1947024685
SNP_P4_170048_120560	NW_004517028.1	Scaffold1956	120560	TT	CC	1947024687
SNP_P4_170049_133155	NW_004517028.1	Scaffold1956	133155	GG	AA	1947024689
SNP_P4_170050_133156	NW_004517028.1	Scaffold1956	133156	CC	TT	1947024691
SNP_P4_170051_133228	NW_004517028.1	Scaffold1956	133228	GG	AA	1947024693
SNP_P4_170052_133485	NW_004517028.1	Scaffold1956	133485	AA	GG	1947024694
SNP_P4_170053_135039	NW_004517028.1	Scaffold1956	135039	TT	CC	1947024696
SNP_P4_170054_32620	NW_004517029.1	Scaffold1959	32620	GG	CC	1947024698
SNP_P4_170055_32628	NW_004517029.1	Scaffold1959	32628	GG	TT	1947024700
SNP_P4_170056_33094	NW_004517029.1	Scaffold1959	33094	AA	GG	1947024702
SNP_P4_170057_33367	NW_004517029.1	Scaffold1959	33367	CC	TT	1947024704
SNP_P4_170058_40318	NW_004517029.1	Scaffold1959	40318	TT	AA	1947024706
SNP_P4_170059_44670	NW_004517029.1	Scaffold1959	44670	CC	GG	1947024708
SNP_P4_170060_45265	NW_004517029.1	Scaffold1959	45265	AA	TT	1947024710
SNP_P4_170061_45333	NW_004517029.1	Scaffold1959	45333	CC	TT	1947024712
SNP_P4_170062_45433	NW_004517029.1	Scaffold1959	45433	CC	TT	1947024714
SNP_P4_170063_46647	NW_004517029.1	Scaffold1959	46647	GG	TT	1947024716
SNP_P4_170064_46691	NW_004517029.1	Scaffold1959	46691	AA	GG	1947024718
SNP_P4_170065_46694	NW_004517029.1	Scaffold1959	46694	AA	CC	1947024720
SNP_P4_170066_46915	NW_004517029.1	Scaffold1959	46915	GG	TT	1947024722
SNP_P4_170067_46936	NW_004517029.1	Scaffold1959	46936	CC	AA	1947024724
SNP_P4_170068_47215	NW_004517029.1	Scaffold1959	47215	TT	CC	1947024727
SNP_P4_170070_47298	NW_004517029.1	Scaffold1959	47298	CC	TT	1947024729
SNP_P4_170071_47360	NW_004517029.1	Scaffold1959	47360	CC	AA	1947024731

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_170073_47525	NW_004517029.1	Scaffold1959	47525	GG	CC	1947024735
SNP_P4_170074_47589	NW_004517029.1	Scaffold1959	47589	AA	GG	1947024737
SNP_P4_170075_47640	NW_004517029.1	Scaffold1959	47640	CC	GG	1947024739
SNP_P4_170076_47654	NW_004517029.1	Scaffold1959	47654	TT	GG	1947024741
SNP_P4_170077_59120	NW_004517029.1	Scaffold1959	59120	TT	CC	1947024743
SNP_P4_170078_59327	NW_004517029.1	Scaffold1959	59327	AA	TT	1947024745
SNP_P4_170079_59376	NW_004517029.1	Scaffold1959	59376	AA	CC	1947024747
SNP_P4_170080_59387	NW_004517029.1	Scaffold1959	59387	TT	AA	1947024749
SNP_P4_170081_64316	NW_004517029.1	Scaffold1959	64316	AA	TT	1947024751
SNP_P4_170082_64319	NW_004517029.1	Scaffold1959	64319	AA	GG	1947024753
SNP_P4_170083_64335	NW_004517029.1	Scaffold1959	64335	AA	GG	1947024755
SNP_P4_170084_64342	NW_004517029.1	Scaffold1959	64342	CC	TT	1947024757
SNP_P4_170085_64546	NW_004517029.1	Scaffold1959	64546	GG	AA	1947024759
SNP_P4_170086_64631	NW_004517029.1	Scaffold1959	64631	TT	CC	1947024761
SNP_P4_170087_64672	NW_004517029.1	Scaffold1959	64672	GG	AA	1947024763
SNP_P4_170088_67152	NW_004517029.1	Scaffold1959	67152	AA	CC	1947024765
SNP_P4_170089_67170	NW_004517029.1	Scaffold1959	67170	CC	TT	1947024767
SNP_P4_170090_67174	NW_004517029.1	Scaffold1959	67174	GG	TT	1947024769
SNP_P4_170091_67286	NW_004517029.1	Scaffold1959	67286	GG	AA	1947024771
SNP_P4_170093_67650	NW_004517029.1	Scaffold1959	67650	AA	TT	1947024772
SNP_P4_170094_67709	NW_004517029.1	Scaffold1959	67709	CC	AA	1947024774
SNP_P4_170095_79299	NW_004517029.1	Scaffold1959	79299	TT	CC	1947024776
SNP_P4_170097_84364	NW_004517029.1	Scaffold1959	84364	TT	GG	1947024778
SNP_P4_170098_84369	NW_004517029.1	Scaffold1959	84369	AA	TT	1947024780
SNP_P4_170099_84677	NW_004517029.1	Scaffold1959	84677	GG	CC	1947024782
SNP_P4_170100_84710	NW_004517029.1	Scaffold1959	84710	CC	TT	1947024784
SNP_P4_170101_91903	NW_004517029.1	Scaffold1959	91903	TT	CC	1947024786
SNP_P4_170102_91904	NW_004517029.1	Scaffold1959	91904	GG	CC	1947024788
SNP_P4_170103_120749	NW_004517029.1	Scaffold1959	120749	CC	AA	1947024790
SNP_P4_170105_125024	NW_004517029.1	Scaffold1959	125024	TT	GG	1947024792
SNP_P4_170106_125033	NW_004517029.1	Scaffold1959	125033	TT	CC	1947024794
SNP_P4_170107_125323	NW_004517029.1	Scaffold1959	125323	CC	TT	1947024796
SNP_P4_170108_125336	NW_004517029.1	Scaffold1959	125336	CC	GG	1947024798
SNP_P4_170109_125363	NW_004517029.1	Scaffold1959	125363	TT	CC	1947024800
SNP_P4_170110_125374	NW_004517029.1	Scaffold1959	125374	TT	CC	1947024802
SNP_P4_170111_125379	NW_004517029.1	Scaffold1959	125379	AA	GG	1947024804
SNP_P4_170112_125390	NW_004517029.1	Scaffold1959	125390	TT	CC	1947024806
SNP_P4_170113_8805	NW_004517032.1	Scaffold1962	8805	AA	CC	1947024808
SNP_P4_170114_8858	NW_004517032.1	Scaffold1962	8858	TT	AA	1947024810
SNP_P4_170115_19714	NW_004517032.1	Scaffold1962	19714	GG	AA	1947024812
SNP_P4_170116_19739	NW_004517032.1	Scaffold1962	19739	TT	GG	1947024814

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_170117_44277	NW_004517032.1	Scaffold1962	44277	TT	CC	1947024816
SNP_P4_170118_44279	NW_004517032.1	Scaffold1962	44279	TT	GG	1947024818
SNP_P4_170119_44482	NW_004517032.1	Scaffold1962	44482	TT	GG	1947024820
SNP_P4_170120_44490	NW_004517032.1	Scaffold1962	44490	GG	AA	1947024822
SNP_P4_170121_70156	NW_004517032.1	Scaffold1962	70156	TT	AA	1947024824
SNP_P4_170122_70162	NW_004517032.1	Scaffold1962	70162	GG	TT	1947024826
SNP_P4_170123_70163	NW_004517032.1	Scaffold1962	70163	AA	TT	1947024828
SNP_P4_170124_70169	NW_004517032.1	Scaffold1962	70169	GG	TT	1947024830
SNP_P4_170125_72393	NW_004517032.1	Scaffold1962	72393	GG	AA	1947024832
SNP_P4_170126_74997	NW_004517032.1	Scaffold1962	74997	AA	GG	1947024834
SNP_P4_170128_119045	NW_004517032.1	Scaffold1962	119045	TT	CC	1947024836
SNP_P4_170129_150836	NW_004517032.1	Scaffold1962	150836	CC	TT	1947024838
SNP_P4_170131_170086	NW_004517032.1	Scaffold1962	170086	GG	AA	1947024840
SNP_P4_170132_170553	NW_004517032.1	Scaffold1962	170553	CC	TT	1947024842
SNP_P4_170133_170687	NW_004517032.1	Scaffold1962	170687	CC	TT	1947024844
SNP_P4_170135_170743	NW_004517032.1	Scaffold1962	170743	TT	CC	1947024847
SNP_P4_170136_170953	NW_004517032.1	Scaffold1962	170953	GG	AA	1947024849
SNP_P4_170137_171050	NW_004517032.1	Scaffold1962	171050	TT	CC	1947024851
SNP_P4_170138_171057	NW_004517032.1	Scaffold1962	171057	AA	TT	1947024853
SNP_P4_170139_3106	NW_004517033.1	Scaffold1963	3106	AA	GG	1947024855
SNP_P4_170140_3702	NW_004517033.1	Scaffold1963	3702	AA	GG	1947024857
SNP_P4_170142_7258	NW_004517034.1	Scaffold1964	7258	AA	GG	1947024859
SNP_P4_170143_7550	NW_004517034.1	Scaffold1964	7550	TT	CC	1947024861
SNP_P4_170144_7736	NW_004517034.1	Scaffold1964	7736	CC	TT	1947024863
SNP_P4_170145_7839	NW_004517034.1	Scaffold1964	7839	GG	AA	1947024865
SNP_P4_170146_8291	NW_004517034.1	Scaffold1964	8291	CC	TT	1947024867
SNP_P4_170147_8405	NW_004517034.1	Scaffold1964	8405	CC	TT	1947024869
SNP_P4_170148_8463	NW_004517034.1	Scaffold1964	8463	GG	AA	1947024871
SNP_P4_170149_8908	NW_004517034.1	Scaffold1964	8908	AA	GG	1947024873
SNP_P4_170151_9086	NW_004517034.1	Scaffold1964	9086	CC	GG	1947024876
SNP_P4_170152_9087	NW_004517034.1	Scaffold1964	9087	TT	GG	1947024878
SNP_P4_170153_9088	NW_004517034.1	Scaffold1964	9088	CC	AA	1947024880
SNP_P4_170154_9089	NW_004517034.1	Scaffold1964	9089	CC	GG	1947024882
SNP_P4_170155_9348	NW_004517034.1	Scaffold1964	9348	TT	AA	1947024884
SNP_P4_170156_9550	NW_004517034.1	Scaffold1964	9550	CC	GG	1947024886
SNP_P4_170157_10009	NW_004517034.1	Scaffold1964	10009	GG	AA	1947024888
SNP_P4_170158_10272	NW_004517034.1	Scaffold1964	10272	TT	CC	1947024890
SNP_P4_170159_10279	NW_004517034.1	Scaffold1964	10279	GG	AA	1947024892
SNP_P4_170160_10442	NW_004517034.1	Scaffold1964	10442	GG	AA	1947024894
SNP_P4_170161_10529	NW_004517034.1	Scaffold1964	10529	AA	GG	1947024896
SNP_P4_170162_10764	NW_004517034.1	Scaffold1964	10764	TT	CC	1947024898
SNP_P4_170163_10821	NW_004517034.1	Scaffold1964	10821	AA	GG	1947024900

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_170164_10842	NW_004517034.1	Scaffold1964	10842	TT	GG	1947024902
SNP_P4_170166_11016	NW_004517034.1	Scaffold1964	11016	GG	AA	1947024904
SNP_P4_170168_17989	NW_004517034.1	Scaffold1964	17989	GG	AA	1947024906
SNP_P4_170169_20103	NW_004517034.1	Scaffold1964	20103	AA	CC	1947024908
SNP_P4_170170_20108	NW_004517034.1	Scaffold1964	20108	GG	TT	1947024910
SNP_P4_170172_20246	NW_004517034.1	Scaffold1964	20246	CC	TT	1947024912
SNP_P4_170173_20248	NW_004517034.1	Scaffold1964	20248	CC	TT	1947024914
SNP_P4_170174_20257	NW_004517034.1	Scaffold1964	20257	CC	AA	1947024916
SNP_P4_170175_20394	NW_004517034.1	Scaffold1964	20394	TT	AA	1947024918
SNP_P4_170176_20422	NW_004517034.1	Scaffold1964	20422	GG	AA	1947024920
SNP_P4_170177_20442	NW_004517034.1	Scaffold1964	20442	CC	TT	1947024922
SNP_P4_170178_20601	NW_004517034.1	Scaffold1964	20601	AA	CC	1947024924
SNP_P4_170179_20811	NW_004517034.1	Scaffold1964	20811	TT	CC	1947024926
SNP_P4_170180_20884	NW_004517034.1	Scaffold1964	20884	GG	AA	1947024928
SNP_P4_170181_20885	NW_004517034.1	Scaffold1964	20885	CC	TT	1947024930
SNP_P4_170182_20940	NW_004517034.1	Scaffold1964	20940	CC	AA	1947024932
SNP_P4_170183_21130	NW_004517034.1	Scaffold1964	21130	TT	CC	1947024934
SNP_P4_170184_21191	NW_004517034.1	Scaffold1964	21191	AA	GG	1947024936
SNP_P4_170186_22615	NW_004517034.1	Scaffold1964	22615	GG	CC	1947024938
SNP_P4_170187_32359	NW_004517034.1	Scaffold1964	32359	CC	TT	1947024940
SNP_P4_170188_35029	NW_004517034.1	Scaffold1964	35029	TT	AA	1947024942
SNP_P4_170189_35030	NW_004517034.1	Scaffold1964	35030	TT	AA	1947024944
SNP_P4_170190_87690	NW_004517034.1	Scaffold1964	87690	AA	GG	1947024946
SNP_P4_170191_107508	NW_004517034.1	Scaffold1964	107508	CC	TT	1947024948
SNP_P4_170192_107511	NW_004517034.1	Scaffold1964	107511	GG	CC	1947024950
SNP_P4_170193_107535	NW_004517034.1	Scaffold1964	107535	AA	GG	1947024951
SNP_P4_170194_107849	NW_004517034.1	Scaffold1964	107849	AA	GG	1947024952
SNP_P4_170195_112857	NW_004517034.1	Scaffold1964	112857	AA	GG	1947024953
SNP_P4_170196_113158	NW_004517034.1	Scaffold1964	113158	GG	AA	1947024954
SNP_P4_170197_157821	NW_004517034.1	Scaffold1964	157821	AA	GG	1947024955
SNP_P4_170198_165358	NW_004517034.1	Scaffold1964	165358	AA	GG	1947024956
SNP_P4_170199_165530	NW_004517034.1	Scaffold1964	165530	AA	GG	1947024957
SNP_P4_170200_171915	NW_004517034.1	Scaffold1964	171915	TT	CC	1947024958
SNP_P4_170201_172096	NW_004517034.1	Scaffold1964	172096	TT	CC	1947024959
SNP_P4_170204_172293	NW_004517034.1	Scaffold1964	172293	AA	GG	1947024960
SNP_P4_170205_172461	NW_004517034.1	Scaffold1964	172461	GG	TT	1947024961
SNP_P4_170206_172562	NW_004517034.1	Scaffold1964	172562	AA	CC	1947024963
SNP_P4_170207_172579	NW_004517034.1	Scaffold1964	172579	GG	TT	1947024965
SNP_P4_170208_4056	NW_004517040.1	Scaffold1971	4056	TT	CC	1947024967
SNP_P4_170209_4247	NW_004517040.1	Scaffold1971	4247	TT	AA	1947024969
SNP_P4_170210_4292	NW_004517040.1	Scaffold1971	4292	TT	CC	1947024971
SNP_P4_170211_4317	NW_004517040.1	Scaffold1971	4317	CC	AA	1947024973

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_170212_4445	NW_004517040.1	Scaffold1971	4445	TT	CC	1947024975
SNP_P4_170213_4455	NW_004517040.1	Scaffold1971	4455	CC	TT	1947024977
SNP_P4_170214_4471	NW_004517040.1	Scaffold1971	4471	CC	TT	1947024979
SNP_P4_170215_4487	NW_004517040.1	Scaffold1971	4487	TT	AA	1947024981
SNP_P4_170216_4550	NW_004517040.1	Scaffold1971	4550	CC	TT	1947024983
SNP_P4_170217_1180	NW_004517042.1	Scaffold1974	1180	AA	TT	1947024985
SNP_P4_170218_1206	NW_004517042.1	Scaffold1974	1206	GG	AA	1947024987
SNP_P4_170219_1228	NW_004517042.1	Scaffold1974	1228	AA	GG	1947024989
SNP_P4_170220_1231	NW_004517042.1	Scaffold1974	1231	AA	CC	1947024991
SNP_P4_170221_4779	NW_004517042.1	Scaffold1974	4779	AA	TT	1947024993
SNP_P4_170222_4781	NW_004517042.1	Scaffold1974	4781	TT	CC	1947024995
SNP_P4_170223_4818	NW_004517042.1	Scaffold1974	4818	GG	AA	1947024997
SNP_P4_170224_13933	NW_004517042.1	Scaffold1974	13933	CC	TT	1947024999
SNP_P4_170225_700	NW_004517044.1	Scaffold1976	700	GG	AA	1947025001
SNP_P4_170226_5339	NW_004517044.1	Scaffold1976	5339	GG	CC	1947025003
SNP_P4_170227_5395	NW_004517044.1	Scaffold1976	5395	CC	TT	1947025005
SNP_P4_170228_9479	NW_004517044.1	Scaffold1976	9479	TT	CC	1947025007
SNP_P4_170229_9511	NW_004517044.1	Scaffold1976	9511	AA	GG	1947025009
SNP_P4_170230_9640	NW_004517044.1	Scaffold1976	9640	AA	GG	1947025011
SNP_P4_170231_9663	NW_004517044.1	Scaffold1976	9663	AA	TT	1947025013
SNP_P4_170232_9688	NW_004517044.1	Scaffold1976	9688	CC	AA	1947025015
SNP_P4_170233_9709	NW_004517044.1	Scaffold1976	9709	CC	AA	1947025017
SNP_P4_170234_10589	NW_004517044.1	Scaffold1976	10589	GG	CC	1947025019
SNP_P4_170235_10596	NW_004517044.1	Scaffold1976	10596	CC	AA	1947025021
SNP_P4_170236_10608	NW_004517044.1	Scaffold1976	10608	TT	AA	1947025023
SNP_P4_170237_10738	NW_004517044.1	Scaffold1976	10738	CC	TT	1947025025
SNP_P4_170238_10858	NW_004517044.1	Scaffold1976	10858	CC	AA	1947025027
SNP_P4_170239_10866	NW_004517044.1	Scaffold1976	10866	GG	AA	1947025029
SNP_P4_170240_10886	NW_004517044.1	Scaffold1976	10886	TT	CC	1947025031
SNP_P4_170241_17096	NW_004517044.1	Scaffold1976	17096	GG	AA	1947025033
SNP_P4_170242_17145	NW_004517044.1	Scaffold1976	17145	AA	TT	1947025035
SNP_P4_170243_17202	NW_004517044.1	Scaffold1976	17202	TT	CC	1947025037
SNP_P4_170244_17607	NW_004517044.1	Scaffold1976	17607	GG	AA	1947025039
SNP_P4_170245_17636	NW_004517044.1	Scaffold1976	17636	TT	CC	1947025041
SNP_P4_170246_26420	NW_004517044.1	Scaffold1976	26420	CC	TT	1947025043
SNP_P4_170247_27091	NW_004517044.1	Scaffold1976	27091	CC	TT	1947025045
SNP_P4_170248_27109	NW_004517044.1	Scaffold1976	27109	AA	GG	1947025047
SNP_P4_170249_27139	NW_004517044.1	Scaffold1976	27139	GG	AA	1947025049
SNP_P4_170250_27142	NW_004517044.1	Scaffold1976	27142	GG	AA	1947025051
SNP_P4_170251_27153	NW_004517044.1	Scaffold1976	27153	CC	TT	1947025053
SNP_P4_170252_27174	NW_004517044.1	Scaffold1976	27174	GG	TT	1947025055
SNP_P4_170253_27175	NW_004517044.1	Scaffold1976	27175	TT	CC	1947025057

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SNP_P4_170255_27451	NW_004517044.1	Scaffold1976	27451	AA	GG	1947025061
SNP_P4_170256_27964	NW_004517044.1	Scaffold1976	27964	AA	TT	1947025063
SNP_P4_170257_28197	NW_004517044.1	Scaffold1976	28197	CC	GG	1947025065
SNP_P4_170258_28209	NW_004517044.1	Scaffold1976	28209	GG	AA	1947025067
SNP_P4_170259_28247	NW_004517044.1	Scaffold1976	28247	CC	TT	1947025069
SNP_P4_170260_28618	NW_004517044.1	Scaffold1976	28618	AA	GG	1947025071
SNP_P4_170261_31214	NW_004517044.1	Scaffold1976	31214	AA	GG	1947025073
SNP_P4_170262_31270	NW_004517044.1	Scaffold1976	31270	TT	GG	1947025075
SNP_P4_170263_31612	NW_004517044.1	Scaffold1976	31612	GG	AA	1947025077
SNP_P4_170264_500	NW_004517046.1	Scaffold1981	500	GG	AA	1947025079
SNP_P4_170265_21535	NW_004517046.1	Scaffold1981	21535	CC	TT	1947025081
SNP_P4_170267_30730	NW_004517046.1	Scaffold1981	30730	TT	GG	1947025083
SNP_P4_170268_30737	NW_004517046.1	Scaffold1981	30737	TT	GG	1947025085
SNP_P4_170269_48295	NW_004517046.1	Scaffold1981	48295	CC	TT	1947025087
SNP_P4_170270_50577	NW_004517046.1	Scaffold1981	50577	GG	AA	1947025089
SNP_P4_170271_50679	NW_004517046.1	Scaffold1981	50679	AA	GG	1947025091
SNP_P4_170272_50824	NW_004517046.1	Scaffold1981	50824	CC	TT	1947025093
SNP_P4_170273_82412	NW_004517046.1	Scaffold1981	82412	CC	GG	1947025095
SNP_P4_170274_82428	NW_004517046.1	Scaffold1981	82428	CC	TT	1947025097
SNP_P4_170275_82480	NW_004517046.1	Scaffold1981	82480	GG	AA	1947025099
SNP_P4_170276_82481	NW_004517046.1	Scaffold1981	82481	AA	GG	1947025101
SNP_P4_170277_82493	NW_004517046.1	Scaffold1981	82493	CC	AA	1947025103
SNP_P4_170278_82519	NW_004517046.1	Scaffold1981	82519	GG	AA	1947025105
SNP_P4_170279_82542	NW_004517046.1	Scaffold1981	82542	GG	TT	1947025107
SNP_P4_170280_82710	NW_004517046.1	Scaffold1981	82710	AA	TT	1947025109
SNP_P4_170281_82774	NW_004517046.1	Scaffold1981	82774	AA	TT	1947025111
SNP_P4_170282_82825	NW_004517046.1	Scaffold1981	82825	TT	AA	1947025113
SNP_P4_170283_82906	NW_004517046.1	Scaffold1981	82906	CC	AA	1947025115
SNP_P4_170284_82965	NW_004517046.1	Scaffold1981	82965	CC	TT	1947025117
SNP_P4_170285_83085	NW_004517046.1	Scaffold1981	83085	CC	TT	1947025119
SNP_P4_170286_83147	NW_004517046.1	Scaffold1981	83147	GG	AA	1947025121
SNP_P4_170287_83160	NW_004517046.1	Scaffold1981	83160	TT	AA	1947025123
SNP_P4_170288_83161	NW_004517046.1	Scaffold1981	83161	TT	AA	1947025125
SNP_P4_170289_85912	NW_004517046.1	Scaffold1981	85912	CC	TT	1947025127
SNP_P4_170290_91284	NW_004517046.1	Scaffold1981	91284	AA	GG	1947025129
SNP_P4_170291_99535	NW_004517046.1	Scaffold1981	99535	AA	GG	1947025131
SNP_P4_170292_100121	NW_004517046.1	Scaffold1981	100121	TT	CC	1947025133
SNP_P4_170293_100200	NW_004517046.1	Scaffold1981	100200	GG	AA	1947025135
SNP_P4_170294_100560	NW_004517046.1	Scaffold1981	100560	CC	TT	1947025137
SNP_P4_170295_100621	NW_004517046.1	Scaffold1981	100621	GG	AA	1947025139
SNP_P4_170296_116696	NW_004517046.1	Scaffold1981	116696	CC	GG	1947025141

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_170300_117858	NW_004517046.1	Scaffold1981	117858	TT	CC	1947025145
SNP_P4_170303_118338	NW_004517046.1	Scaffold1981	118338	AA	GG	1947025147
SNP_P4_170305_126422	NW_004517046.1	Scaffold1981	126422	AA	CC	1947025149
SNP_P4_170306_131434	NW_004517046.1	Scaffold1981	131434	TT	CC	1947025151
SNP_P4_170307_131491	NW_004517046.1	Scaffold1981	131491	AA	TT	1947025153
SNP_P4_170308_131702	NW_004517046.1	Scaffold1981	131702	CC	TT	1947025155
SNP_P4_170309_149229	NW_004517046.1	Scaffold1981	149229	GG	TT	1947025157
SNP_P4_170310_149249	NW_004517046.1	Scaffold1981	149249	TT	CC	1947025159
SNP_P4_170312_159267	NW_004517046.1	Scaffold1981	159267	AA	CC	1947025161
SNP_P4_170314_229407	NW_004517046.1	Scaffold1981	229407	TT	CC	1947025163
SNP_P4_170317_234032	NW_004517046.1	Scaffold1981	234032	GG	AA	1947025165
SNP_P4_170318_234242	NW_004517046.1	Scaffold1981	234242	TT	CC	1947025167
SNP_P4_170321_240669	NW_004517046.1	Scaffold1981	240669	AA	TT	1947025170
SNP_P4_170322_240890	NW_004517046.1	Scaffold1981	240890	TT	AA	1947025172
SNP_P4_170323_242067	NW_004517046.1	Scaffold1981	242067	TT	CC	1947025174
SNP_P4_170324_243116	NW_004517046.1	Scaffold1981	243116	TT	AA	1947025176
SNP_P4_170325_243491	NW_004517046.1	Scaffold1981	243491	GG	AA	1947025178
SNP_P4_170326_243578	NW_004517046.1	Scaffold1981	243578	CC	TT	1947025180
SNP_P4_170327_254425	NW_004517046.1	Scaffold1981	254425	GG	CC	1947025182
SNP_P4_170328_254708	NW_004517046.1	Scaffold1981	254708	AA	GG	1947025184
SNP_P4_170329_255286	NW_004517046.1	Scaffold1981	255286	CC	TT	1947025186
SNP_P4_170330_264343	NW_004517046.1	Scaffold1981	264343	AA	GG	1947025188
SNP_P4_170331_276788	NW_004517046.1	Scaffold1981	276788	AA	CC	1947025190
SNP_P4_170332_277053	NW_004517046.1	Scaffold1981	277053	CC	GG	1947025192
SNP_P4_170333_277055	NW_004517046.1	Scaffold1981	277055	GG	AA	1947025194
SNP_P4_170334_277065	NW_004517046.1	Scaffold1981	277065	TT	CC	1947025196
SNP_P4_170335_277095	NW_004517046.1	Scaffold1981	277095	TT	CC	1947025198
SNP_P4_170336_277133	NW_004517046.1	Scaffold1981	277133	TT	CC	1947025200
SNP_P4_170337_277372	NW_004517046.1	Scaffold1981	277372	GG	AA	1947025202
SNP_P4_170338_277480	NW_004517046.1	Scaffold1981	277480	GG	AA	1947025204
SNP_P4_170339_277982	NW_004517046.1	Scaffold1981	277982	TT	CC	1947025206
SNP_P4_170340_278010	NW_004517046.1	Scaffold1981	278010	AA	CC	1947025208
SNP_P4_170341_278323	NW_004517046.1	Scaffold1981	278323	GG	AA	1947025210
SNP_P4_170342_278347	NW_004517046.1	Scaffold1981	278347	GG	AA	1947025212
SNP_P4_170343_278361	NW_004517046.1	Scaffold1981	278361	AA	GG	1947025214
SNP_P4_170344_299584	NW_004517046.1	Scaffold1981	299584	TT	CC	1947025216
SNP_P4_170345_304137	NW_004517046.1	Scaffold1981	304137	GG	AA	1947025218
SNP_P4_170346_310315	NW_004517046.1	Scaffold1981	310315	GG	AA	1947025220
SNP_P4_170347_313094	NW_004517046.1	Scaffold1981	313094	CC	TT	1947025222
SNP_P4_170349_320635	NW_004517046.1	Scaffold1981	320635	CC	TT	1947025224
SNP_P4_170350_320667	NW_004517046.1	Scaffold1981	320667	TT	CC	1947025226

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_170353_320705	NW_004517046.1	Scaffold1981	320705	AA	GG	1947025233
SNP_P4_170354_320734	NW_004517046.1	Scaffold1981	320734	TT	GG	1947025235
SNP_P4_170355_320741	NW_004517046.1	Scaffold1981	320741	GG	AA	1947025237
SNP_P4_170356_320831	NW_004517046.1	Scaffold1981	320831	AA	GG	1947025239
SNP_P4_170357_320933	NW_004517046.1	Scaffold1981	320933	TT	CC	1947025241
SNP_P4_170358_320942	NW_004517046.1	Scaffold1981	320942	AA	GG	1947025243
SNP_P4_170359_320958	NW_004517046.1	Scaffold1981	320958	CC	TT	1947025245
SNP_P4_170360_321180	NW_004517046.1	Scaffold1981	321180	TT	GG	1947025247
SNP_P4_170362_324043	NW_004517046.1	Scaffold1981	324043	CC	TT	1947025249
SNP_P4_170363_335575	NW_004517046.1	Scaffold1981	335575	GG	AA	1947025251
SNP_P4_170365_335682	NW_004517046.1	Scaffold1981	335682	GG	AA	1947025253
SNP_P4_170366_335723	NW_004517046.1	Scaffold1981	335723	GG	CC	1947025255
SNP_P4_170368_335948	NW_004517046.1	Scaffold1981	335948	GG	AA	1947025257
SNP_P4_170369_336033	NW_004517046.1	Scaffold1981	336033	AA	TT	1947025259
SNP_P4_170370_336220	NW_004517046.1	Scaffold1981	336220	TT	CC	1947025261
SNP_P4_170371_336259	NW_004517046.1	Scaffold1981	336259	GG	CC	1947025263
SNP_P4_170372_336322	NW_004517046.1	Scaffold1981	336322	GG	AA	1947025265
SNP_P4_170373_336490	NW_004517046.1	Scaffold1981	336490	AA	GG	1947025267
SNP_P4_170374_336500	NW_004517046.1	Scaffold1981	336500	AA	GG	1947025269
SNP_P4_170375_336546	NW_004517046.1	Scaffold1981	336546	GG	AA	1947025271
SNP_P4_170376_336547	NW_004517046.1	Scaffold1981	336547	TT	CC	1947025273
SNP_P4_170377_336565	NW_004517046.1	Scaffold1981	336565	TT	CC	1947025275
SNP_P4_170378_336862	NW_004517046.1	Scaffold1981	336862	GG	AA	1947025277
SNP_P4_170379_336873	NW_004517046.1	Scaffold1981	336873	CC	GG	1947025279
SNP_P4_170380_336875	NW_004517046.1	Scaffold1981	336875	AA	GG	1947025281
SNP_P4_170382_337701	NW_004517046.1	Scaffold1981	337701	AA	GG	1947025283
SNP_P4_170384_341272	NW_004517046.1	Scaffold1981	341272	CC	TT	1947025285
SNP_P4_170385_341291	NW_004517046.1	Scaffold1981	341291	GG	AA	1947025287
SNP_P4_170386_341662	NW_004517046.1	Scaffold1981	341662	CC	GG	1947025289
SNP_P4_170387_341678	NW_004517046.1	Scaffold1981	341678	GG	AA	1947025291
SNP_P4_170388_341692	NW_004517046.1	Scaffold1981	341692	CC	AA	1947025293
SNP_P4_170389_341703	NW_004517046.1	Scaffold1981	341703	AA	GG	1947025295
SNP_P4_170390_342670	NW_004517046.1	Scaffold1981	342670	GG	AA	1947025297
SNP_P4_170391_343597	NW_004517046.1	Scaffold1981	343597	TT	CC	1947025299
SNP_P4_170392_343612	NW_004517046.1	Scaffold1981	343612	TT	CC	1947025301
SNP_P4_170393_344138	NW_004517046.1	Scaffold1981	344138	CC	TT	1947025303
SNP_P4_170394_344156	NW_004517046.1	Scaffold1981	344156	TT	CC	1947025305
SNP_P4_170396_345022	NW_004517046.1	Scaffold1981	345022	AA	GG	1947025307
SNP_P4_170397_347757	NW_004517046.1	Scaffold1981	347757	TT	CC	1947025309
SNP_P4_170398_347816	NW_004517046.1	Scaffold1981	347816	GG	AA	1947025311

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_170401_348178	NW_004517046.1	Scaffold1981	348178	AA	TT	1947025317
SNP_P4_170402_348203	NW_004517046.1	Scaffold1981	348203	AA	CC	1947025319
SNP_P4_170403_348576	NW_004517046.1	Scaffold1981	348576	AA	TT	1947025321
SNP_P4_170404_348681	NW_004517046.1	Scaffold1981	348681	AA	TT	1947025323
SNP_P4_170405_348923	NW_004517046.1	Scaffold1981	348923	TT	CC	1947025325
SNP_P4_170408_349213	NW_004517046.1	Scaffold1981	349213	TT	CC	1947025327
SNP_P4_170409_349220	NW_004517046.1	Scaffold1981	349220	GG	AA	1947025329
SNP_P4_170410_349229	NW_004517046.1	Scaffold1981	349229	TT	AA	1947025331
SNP_P4_170411_349559	NW_004517046.1	Scaffold1981	349559	AA	GG	1947025333
SNP_P4_170412_349595	NW_004517046.1	Scaffold1981	349595	AA	GG	1947025336
SNP_P4_170413_349598	NW_004517046.1	Scaffold1981	349598	CC	TT	1947025338
SNP_P4_170414_349601	NW_004517046.1	Scaffold1981	349601	CC	TT	1947025340
SNP_P4_170415_349603	NW_004517046.1	Scaffold1981	349603	CC	TT	1947025342
SNP_P4_170416_349626	NW_004517046.1	Scaffold1981	349626	GG	TT	1947025344
SNP_P4_170417_351038	NW_004517046.1	Scaffold1981	351038	TT	GG	1947025346
SNP_P4_170420_351555	NW_004517046.1	Scaffold1981	351555	GG	AA	1947025348
SNP_P4_170421_351556	NW_004517046.1	Scaffold1981	351556	GG	TT	1947025350
SNP_P4_170422_351716	NW_004517046.1	Scaffold1981	351716	AA	CC	1947025352
SNP_P4_170423_351935	NW_004517046.1	Scaffold1981	351935	AA	GG	1947025354
SNP_P4_170425_355139	NW_004517046.1	Scaffold1981	355139	TT	GG	1947025356
SNP_P4_170426_355336	NW_004517046.1	Scaffold1981	355336	GG	AA	1947025358
SNP_P4_170428_355612	NW_004517046.1	Scaffold1981	355612	GG	AA	1947025360
SNP_P4_170429_355949	NW_004517046.1	Scaffold1981	355949	TT	CC	1947025362
SNP_P4_170430_355975	NW_004517046.1	Scaffold1981	355975	TT	AA	1947025364
SNP_P4_170431_356786	NW_004517046.1	Scaffold1981	356786	TT	CC	1947025366
SNP_P4_170432_356787	NW_004517046.1	Scaffold1981	356787	GG	AA	1947025368
SNP_P4_170433_356886	NW_004517046.1	Scaffold1981	356886	TT	CC	1947025370
SNP_P4_170435_356938	NW_004517046.1	Scaffold1981	356938	GG	AA	1947025372
SNP_P4_170436_356948	NW_004517046.1	Scaffold1981	356948	CC	AA	1947025374
SNP_P4_170437_356949	NW_004517046.1	Scaffold1981	356949	CC	TT	1947025376
SNP_P4_170438_356967	NW_004517046.1	Scaffold1981	356967	CC	AA	1947025378
SNP_P4_170439_356968	NW_004517046.1	Scaffold1981	356968	TT	CC	1947025380
SNP_P4_170440_357094	NW_004517046.1	Scaffold1981	357094	TT	CC	1947025382
SNP_P4_170441_357095	NW_004517046.1	Scaffold1981	357095	CC	TT	1947025384
SNP_P4_170442_357128	NW_004517046.1	Scaffold1981	357128	AA	TT	1947025386
SNP_P4_170443_357222	NW_004517046.1	Scaffold1981	357222	GG	AA	1947025388
SNP_P4_170444_357253	NW_004517046.1	Scaffold1981	357253	GG	TT	1947025390
SNP_P4_170445_357349	NW_004517046.1	Scaffold1981	357349	TT	AA	1947025392
SNP_P4_170446_357405	NW_004517046.1	Scaffold1981	357405	AA	TT	1947025394
SNP_P4_170447_357413	NW_004517046.1	Scaffold1981	357413	AA	TT	1947025396

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_170450_357614	NW_004517046.1	Scaffold1981	357614	CC	TT	1947025402
SNP_P4_170453_357739	NW_004517046.1	Scaffold1981	357739	AA	GG	1947025404
SNP_P4_170456_360232	NW_004517046.1	Scaffold1981	360232	CC	TT	1947025406
SNP_P4_170457_360304	NW_004517046.1	Scaffold1981	360304	CC	TT	1947025408
SNP_P4_170458_360309	NW_004517046.1	Scaffold1981	360309	AA	GG	1947025410
SNP_P4_170460_361452	NW_004517046.1	Scaffold1981	361452	TT	CC	1947025412
SNP_P4_170461_361461	NW_004517046.1	Scaffold1981	361461	GG	AA	1947025414
SNP_P4_170462_361466	NW_004517046.1	Scaffold1981	361466	CC	AA	1947025416
SNP_P4_170463_361514	NW_004517046.1	Scaffold1981	361514	TT	AA	1947025418
SNP_P4_170464_361531	NW_004517046.1	Scaffold1981	361531	GG	TT	1947025420
SNP_P4_170465_361562	NW_004517046.1	Scaffold1981	361562	AA	TT	1947025422
SNP_P4_170466_362190	NW_004517046.1	Scaffold1981	362190	CC	GG	1947025424
SNP_P4_170467_362193	NW_004517046.1	Scaffold1981	362193	TT	AA	1947025426
SNP_P4_170468_362212	NW_004517046.1	Scaffold1981	362212	TT	CC	1947025428
SNP_P4_170469_362997	NW_004517046.1	Scaffold1981	362997	TT	CC	1947025430
SNP_P4_170470_363233	NW_004517046.1	Scaffold1981	363233	TT	CC	1947025432
SNP_P4_170471_363270	NW_004517046.1	Scaffold1981	363270	GG	TT	1947025434
SNP_P4_170472_363272	NW_004517046.1	Scaffold1981	363272	AA	CC	1947025436
SNP_P4_170473_363286	NW_004517046.1	Scaffold1981	363286	CC	TT	1947025438
SNP_P4_170474_363304	NW_004517046.1	Scaffold1981	363304	AA	GG	1947025440
SNP_P4_170475_363310	NW_004517046.1	Scaffold1981	363310	GG	AA	1947025442
SNP_P4_170476_363311	NW_004517046.1	Scaffold1981	363311	GG	TT	1947025444
SNP_P4_170477_363320	NW_004517046.1	Scaffold1981	363320	AA	TT	1947025446
SNP_P4_170478_363338	NW_004517046.1	Scaffold1981	363338	TT	AA	1947025448
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SNP_P4_170480_364542	NW_004517046.1	Scaffold1981	364542	TT	CC	1947025452
SNP_P4_170481_364551	NW_004517046.1	Scaffold1981	364551	GG	AA	1947025454
SNP_P4_170482_364589	NW_004517046.1	Scaffold1981	364589	TT	CC	1947025456
SNP_P4_170483_364601	NW_004517046.1	Scaffold1981	364601	TT	AA	1947025459
SNP_P4_170484_365281	NW_004517046.1	Scaffold1981	365281	TT	CC	1947025461
SNP_P4_170485_365288	NW_004517046.1	Scaffold1981	365288	AA	GG	1947025463
SNP_P4_170486_365297	NW_004517046.1	Scaffold1981	365297	CC	TT	1947025465
SNP_P4_170487_365626	NW_004517046.1	Scaffold1981	365626	GG	AA	1947025467
SNP_P4_170488_366173	NW_004517046.1	Scaffold1981	366173	TT	CC	1947025469
SNP_P4_170489_366206	NW_004517046.1	Scaffold1981	366206	TT	CC	1947025471
SNP_P4_170490_366460	NW_004517046.1	Scaffold1981	366460	GG	AA	1947025473
SNP_P4_170491_366508	NW_004517046.1	Scaffold1981	366508	CC	GG	1947025475
SNP_P4_170492_366526	NW_004517046.1	Scaffold1981	366526	AA	CC	1947025477
SNP_P4_170493_366583	NW_004517046.1	Scaffold1981	366583	CC	TT	1947025479
SNP_P4_170494_366681	NW_004517046.1	Scaffold1981	366681	AA	GG	1947025481

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_170498_372630	NW_004517046.1	Scaffold1981	372630	CC	AA	1947025487
SNP_P4_170499_372688	NW_004517046.1	Scaffold1981	372688	CC	AA	1947025489
SNP_P4_170500_372691	NW_004517046.1	Scaffold1981	372691	GG	AA	1947025491
SNP_P4_170501_372894	NW_004517046.1	Scaffold1981	372894	GG	AA	1947025493
SNP_P4_170502_372897	NW_004517046.1	Scaffold1981	372897	GG	AA	1947025495
SNP_P4_170503_372900	NW_004517046.1	Scaffold1981	372900	TT	CC	1947025497
SNP_P4_170504_372938	NW_004517046.1	Scaffold1981	372938	TT	CC	1947025499
SNP_P4_170505_373066	NW_004517046.1	Scaffold1981	373066	AA	TT	1947025501
SNP_P4_170506_373148	NW_004517046.1	Scaffold1981	373148	GG	TT	1947025503
SNP_P4_170507_373292	NW_004517046.1	Scaffold1981	373292	GG	AA	1947025505
SNP_P4_170508_373293	NW_004517046.1	Scaffold1981	373293	CC	TT	1947025507
SNP_P4_170509_373303	NW_004517046.1	Scaffold1981	373303	AA	GG	1947025509
SNP_P4_170510_373308	NW_004517046.1	Scaffold1981	373308	GG	AA	1947025511
SNP_P4_170511_375404	NW_004517046.1	Scaffold1981	375404	AA	GG	1947025513
SNP_P4_170512_375414	NW_004517046.1	Scaffold1981	375414	TT	GG	1947025515
SNP_P4_170513_376093	NW_004517046.1	Scaffold1981	376093	GG	AA	1947025517
SNP_P4_170514_376100	NW_004517046.1	Scaffold1981	376100	CC	AA	1947025519
SNP_P4_170515_376348	NW_004517046.1	Scaffold1981	376348	TT	CC	1947025521
SNP_P4_170516_377027	NW_004517046.1	Scaffold1981	377027	GG	CC	1947025523
SNP_P4_170517_377093	NW_004517046.1	Scaffold1981	377093	AA	GG	1947025525
SNP_P4_170518_377331	NW_004517046.1	Scaffold1981	377331	AA	GG	1947025527
SNP_P4_170519_377346	NW_004517046.1	Scaffold1981	377346	GG	AA	1947025529
SNP_P4_170520_378025	NW_004517046.1	Scaffold1981	378025	CC	TT	1947025531
SNP_P4_170522_378337	NW_004517046.1	Scaffold1981	378337	TT	AA	1947025533
SNP_P4_170524_378717	NW_004517046.1	Scaffold1981	378717	GG	CC	1947025535
SNP_P4_170525_378884	NW_004517046.1	Scaffold1981	378884	CC	TT	1947025537
SNP_P4_170526_379088	NW_004517046.1	Scaffold1981	379088	TT	GG	1947025539
SNP_P4_170527_379206	NW_004517046.1	Scaffold1981	379206	AA	GG	1947025541
SNP_P4_170529_379595	NW_004517046.1	Scaffold1981	379595	CC	GG	1947025543
SNP_P4_170530_379622	NW_004517046.1	Scaffold1981	379622	TT	GG	1947025545
SNP_P4_170531_379629	NW_004517046.1	Scaffold1981	379629	TT	CC	1947025547
SNP_P4_170532_379632	NW_004517046.1	Scaffold1981	379632	AA	TT	1947025549
SNP_P4_170533_379636	NW_004517046.1	Scaffold1981	379636	AA	CC	1947025551
SNP_P4_170534_379646	NW_004517046.1	Scaffold1981	379646	AA	CC	1947025553
SNP_P4_170535_381105	NW_004517046.1	Scaffold1981	381105	TT	CC	1947025555
SNP_P4_170537_382489	NW_004517046.1	Scaffold1981	382489	AA	TT	1947025557
SNP_P4_170538_382520	NW_004517046.1	Scaffold1981	382520	GG	AA	1947025559
SNP_P4_170539_386671	NW_004517046.1	Scaffold1981	386671	TT	CC	1947025561
SNP_P4_170540_387273	NW_004517046.1	Scaffold1981	387273	CC	TT	1947025563
SNP_P4_170541_389206	NW_004517046.1	Scaffold1981	389206	CC	TT	1947025565

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_170543_390626	NW_004517046.1	Scaffold1981	390626	TT	CC	1947025569
SNP_P4_170544_390797	NW_004517046.1	Scaffold1981	390797	AA	CC	1947025571
SNP_P4_170545_390807	NW_004517046.1	Scaffold1981	390807	CC	TT	1947025573
SNP_P4_170546_391159	NW_004517046.1	Scaffold1981	391159	CC	TT	1947025575
SNP_P4_170547_391564	NW_004517046.1	Scaffold1981	391564	CC	TT	1947025577
SNP_P4_170548_391574	NW_004517046.1	Scaffold1981	391574	CC	GG	1947025579
SNP_P4_170551_393675	NW_004517046.1	Scaffold1981	393675	CC	TT	1947025581
SNP_P4_170552_393676	NW_004517046.1	Scaffold1981	393676	TT	GG	1947025583
SNP_P4_170553_393678	NW_004517046.1	Scaffold1981	393678	CC	AA	1947025585
SNP_P4_170554_393765	NW_004517046.1	Scaffold1981	393765	TT	GG	1947025587
SNP_P4_170556_394800	NW_004517046.1	Scaffold1981	394800	TT	CC	1947025589
SNP_P4_170557_395241	NW_004517046.1	Scaffold1981	395241	AA	GG	1947025591
SNP_P4_170559_395855	NW_004517046.1	Scaffold1981	395855	GG	CC	1947025593
SNP_P4_170560_395872	NW_004517046.1	Scaffold1981	395872	TT	CC	1947025595
SNP_P4_170561_395969	NW_004517046.1	Scaffold1981	395969	AA	GG	1947025597
SNP_P4_170562_398176	NW_004517046.1	Scaffold1981	398176	CC	AA	1947025599
SNP_P4_170563_399701	NW_004517046.1	Scaffold1981	399701	GG	TT	1947025601
SNP_P4_170564_399737	NW_004517046.1	Scaffold1981	399737	TT	AA	1947025603
SNP_P4_170565_400762	NW_004517046.1	Scaffold1981	400762	AA	CC	1947025605
SNP_P4_170566_405398	NW_004517046.1	Scaffold1981	405398	GG	TT	1947025607
SNP_P4_170567_405832	NW_004517046.1	Scaffold1981	405832	TT	CC	1947025609
SNP_P4_170571_407084	NW_004517046.1	Scaffold1981	407084	AA	TT	1947025611
SNP_P4_170572_408456	NW_004517046.1	Scaffold1981	408456	AA	GG	1947025613
SNP_P4_170574_408467	NW_004517046.1	Scaffold1981	408467	AA	GG	1947025615
SNP_P4_170575_408609	NW_004517046.1	Scaffold1981	408609	CC	GG	1947025617
SNP_P4_170576_408758	NW_004517046.1	Scaffold1981	408758	CC	TT	1947025619
SNP_P4_170578_408965	NW_004517046.1	Scaffold1981	408965	AA	TT	1947025621
SNP_P4_170579_411154	NW_004517046.1	Scaffold1981	411154	AA	GG	1947025623
SNP_P4_170580_411185	NW_004517046.1	Scaffold1981	411185	GG	CC	1947025625
SNP_P4_170581_411187	NW_004517046.1	Scaffold1981	411187	GG	CC	1947025627
SNP_P4_170582_411492	NW_004517046.1	Scaffold1981	411492	CC	TT	1947025629
SNP_P4_170583_411501	NW_004517046.1	Scaffold1981	411501	GG	AA	1947025632
SNP_P4_170584_411506	NW_004517046.1	Scaffold1981	411506	AA	GG	1947025634
SNP_P4_170585_411694	NW_004517046.1	Scaffold1981	411694	GG	AA	1947025636
SNP_P4_170586_411712	NW_004517046.1	Scaffold1981	411712	TT	GG	1947025638
SNP_P4_170587_411768	NW_004517046.1	Scaffold1981	411768	CC	TT	1947025640
SNP_P4_170588_412940	NW_004517046.1	Scaffold1981	412940	TT	CC	1947025642
SNP_P4_170589_412952	NW_004517046.1	Scaffold1981	412952	CC	TT	1947025644
SNP_P4_170590_412964	NW_004517046.1	Scaffold1981	412964	GG	AA	1947025646
SNP_P4_170592_413581	NW_004517046.1	Scaffold1981	413581	GG	AA	1947025648
SNP_P4_170593_415618	NW_004517046.1	Scaffold1981	415618	AA	GG	1947025650

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_170596_415899	NW_004517046.1	Scaffold1981	415899	AA	TT	1947025656
SNP_P4_170597_415902	NW_004517046.1	Scaffold1981	415902	AA	GG	1947025658
SNP_P4_170598_415940	NW_004517046.1	Scaffold1981	415940	AA	GG	1947025660
SNP_P4_170600_416017	NW_004517046.1	Scaffold1981	416017	CC	TT	1947025662
SNP_P4_170601_416044	NW_004517046.1	Scaffold1981	416044	AA	GG	1947025664
SNP_P4_170602_416088	NW_004517046.1	Scaffold1981	416088	TT	CC	1947025666
SNP_P4_170603_416126	NW_004517046.1	Scaffold1981	416126	CC	GG	1947025668
SNP_P4_170604_416316	NW_004517046.1	Scaffold1981	416316	TT	CC	1947025670
SNP_P4_170605_416329	NW_004517046.1	Scaffold1981	416329	AA	TT	1947025672
SNP_P4_170606_416333	NW_004517046.1	Scaffold1981	416333	AA	GG	1947025674
SNP_P4_170607_416338	NW_004517046.1	Scaffold1981	416338	TT	GG	1947025676
SNP_P4_170608_416345	NW_004517046.1	Scaffold1981	416345	AA	GG	1947025678
SNP_P4_170609_416350	NW_004517046.1	Scaffold1981	416350	CC	AA	1947025680
SNP_P4_170610_416372	NW_004517046.1	Scaffold1981	416372	GG	AA	1947025682
SNP_P4_170611_416381	NW_004517046.1	Scaffold1981	416381	TT	CC	1947025684
SNP_P4_170612_416414	NW_004517046.1	Scaffold1981	416414	GG	AA	1947025686
SNP_P4_170614_416420	NW_004517046.1	Scaffold1981	416420	CC	TT	1947025688
SNP_P4_170615_416454	NW_004517046.1	Scaffold1981	416454	AA	GG	1947025690
SNP_P4_170616_416498	NW_004517046.1	Scaffold1981	416498	GG	AA	1947025692
SNP_P4_170617_416506	NW_004517046.1	Scaffold1981	416506	CC	GG	1947025694
SNP_P4_170618_416526	NW_004517046.1	Scaffold1981	416526	GG	AA	1947025696
SNP_P4_170619_416530	NW_004517046.1	Scaffold1981	416530	TT	GG	1947025698
SNP_P4_170620_416985	NW_004517046.1	Scaffold1981	416985	CC	AA	1947025700
SNP_P4_170621_417015	NW_004517046.1	Scaffold1981	417015	CC	TT	1947025702
SNP_P4_170622_417163	NW_004517046.1	Scaffold1981	417163	GG	TT	1947025704
SNP_P4_170623_417175	NW_004517046.1	Scaffold1981	417175	GG	AA	1947025706
SNP_P4_170624_417199	NW_004517046.1	Scaffold1981	417199	GG	TT	1947025708
SNP_P4_170625_417242	NW_004517046.1	Scaffold1981	417242	AA	GG	1947025710
SNP_P4_170626_417383	NW_004517046.1	Scaffold1981	417383	TT	GG	1947025712
SNP_P4_170627_417442	NW_004517046.1	Scaffold1981	417442	AA	CC	1947025714
SNP_P4_170628_417597	NW_004517046.1	Scaffold1981	417597	AA	GG	1947025716
SNP_P4_170629_417618	NW_004517046.1	Scaffold1981	417618	GG	CC	1947025718
SNP_P4_170630_417646	NW_004517046.1	Scaffold1981	417646	AA	TT	1947025720
SNP_P4_170631_417675	NW_004517046.1	Scaffold1981	417675	CC	TT	1947025722
SNP_P4_170632_417736	NW_004517046.1	Scaffold1981	417736	CC	TT	1947025724
SNP_P4_170633_417738	NW_004517046.1	Scaffold1981	417738	GG	AA	1947025726
SNP_P4_170634_417760	NW_004517046.1	Scaffold1981	417760	GG	AA	1947025728
SNP_P4_170635_417761	NW_004517046.1	Scaffold1981	417761	CC	TT	1947025730
SNP_P4_170636_417778	NW_004517046.1	Scaffold1981	417778	TT	CC	1947025732
SNP_P4_170637_417805	NW_004517046.1	Scaffold1981	417805	CC	TT	1947025734

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_170640_417918	NW_004517046.1	Scaffold1981	417918	AA	GG	1947025739
SNP_P4_170641_420003	NW_004517046.1	Scaffold1981	420003	TT	GG	1947025741
SNP_P4_170642_420019	NW_004517046.1	Scaffold1981	420019	AA	GG	1947025743
SNP_P4_170643_420029	NW_004517046.1	Scaffold1981	420029	AA	TT	1947025745
SNP_P4_170644_420034	NW_004517046.1	Scaffold1981	420034	AA	TT	1947025747
SNP_P4_170646_422602	NW_004517046.1	Scaffold1981	422602	TT	AA	1947025749
SNP_P4_170647_422614	NW_004517046.1	Scaffold1981	422614	CC	TT	1947025751
SNP_P4_170648_422888	NW_004517046.1	Scaffold1981	422888	TT	CC	1947025753
SNP_P4_170649_423022	NW_004517046.1	Scaffold1981	423022	TT	CC	1947025755
SNP_P4_170650_423031	NW_004517046.1	Scaffold1981	423031	CC	TT	1947025757
SNP_P4_170651_423035	NW_004517046.1	Scaffold1981	423035	TT	CC	1947025759
SNP_P4_170652_423078	NW_004517046.1	Scaffold1981	423078	GG	AA	1947025761
SNP_P4_170653_423096	NW_004517046.1	Scaffold1981	423096	TT	CC	1947025763
SNP_P4_170654_423103	NW_004517046.1	Scaffold1981	423103	AA	GG	1947025765
SNP_P4_170655_423126	NW_004517046.1	Scaffold1981	423126	GG	TT	1947025767
SNP_P4_170656_430767	NW_004517046.1	Scaffold1981	430767	AA	GG	1947025769
SNP_P4_170657_430770	NW_004517046.1	Scaffold1981	430770	GG	TT	1947025771
SNP_P4_170658_430775	NW_004517046.1	Scaffold1981	430775	AA	GG	1947025773
SNP_P4_170659_430796	NW_004517046.1	Scaffold1981	430796	TT	AA	1947025774
SNP_P4_170660_430857	NW_004517046.1	Scaffold1981	430857	AA	CC	1947025776
SNP_P4_170661_431107	NW_004517046.1	Scaffold1981	431107	TT	CC	1947025778
SNP_P4_170662_431258	NW_004517046.1	Scaffold1981	431258	TT	CC	1947025780
SNP_P4_170664_431447	NW_004517046.1	Scaffold1981	431447	GG	AA	1947025782
SNP_P4_170665_431458	NW_004517046.1	Scaffold1981	431458	AA	TT	1947025784
SNP_P4_170666_431472	NW_004517046.1	Scaffold1981	431472	GG	AA	1947025786
SNP_P4_170667_431527	NW_004517046.1	Scaffold1981	431527	GG	AA	1947025788
SNP_P4_170669_30066	NW_004517048.1	Scaffold1983	30066	AA	GG	1947025790
SNP_P4_170670_31039	NW_004517048.1	Scaffold1983	31039	CC	TT	1947025792
SNP_P4_170671_34126	NW_004517048.1	Scaffold1983	34126	AA	GG	1947025794
SNP_P4_170673_34337	NW_004517048.1	Scaffold1983	34337	AA	TT	1947025797
SNP_P4_170674_34513	NW_004517048.1	Scaffold1983	34513	TT	CC	1947025799
SNP_P4_170675_34553	NW_004517048.1	Scaffold1983	34553	TT	CC	1947025801
SNP_P4_170676_34561	NW_004517048.1	Scaffold1983	34561	CC	AA	1947025803
SNP_P4_170677_34623	NW_004517048.1	Scaffold1983	34623	AA	CC	1947025805
SNP_P4_170678_34629	NW_004517048.1	Scaffold1983	34629	AA	GG	1947025807
SNP_P4_170679_34695	NW_004517048.1	Scaffold1983	34695	GG	AA	1947025809
SNP_P4_170680_34712	NW_004517048.1	Scaffold1983	34712	TT	CC	1947025811
SNP_P4_170681_34737	NW_004517048.1	Scaffold1983	34737	AA	CC	1947025813
SNP_P4_170682_34758	NW_004517048.1	Scaffold1983	34758	CC	TT	1947025815
SNP_P4_170683_36900	NW_004517048.1	Scaffold1983	36900	GG	AA	1947025817

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_170685_37197	NW_004517048.1	Scaffold1983	37197	TT	AA	1947025821
SNP_P4_170686_37635	NW_004517048.1	Scaffold1983	37635	GG	AA	1947025823
SNP_P4_170687_37637	NW_004517048.1	Scaffold1983	37637	TT	AA	1947025825
SNP_P4_170688_37652	NW_004517048.1	Scaffold1983	37652	TT	GG	1947025827
SNP_P4_170689_38218	NW_004517048.1	Scaffold1983	38218	AA	CC	1947025829
SNP_P4_170690_38229	NW_004517048.1	Scaffold1983	38229	TT	GG	1947025831
SNP_P4_170691_47980	NW_004517048.1	Scaffold1983	47980	AA	CC	1947025833
SNP_P4_170692_47987	NW_004517048.1	Scaffold1983	47987	AA	GG	1947025835
SNP_P4_170693_48027	NW_004517048.1	Scaffold1983	48027	AA	GG	1947025837
SNP_P4_170694_48224	NW_004517048.1	Scaffold1983	48224	TT	CC	1947025839
SNP_P4_170695_48276	NW_004517048.1	Scaffold1983	48276	CC	TT	1947025841
SNP_P4_170696_48293	NW_004517048.1	Scaffold1983	48293	AA	GG	1947025843
SNP_P4_170697_55992	NW_004517048.1	Scaffold1983	55992	TT	GG	1947025845
SNP_P4_170698_62796	NW_004517048.1	Scaffold1983	62796	AA	CC	1947025847
SNP_P4_170699_62806	NW_004517048.1	Scaffold1983	62806	AA	GG	1947025849
SNP_P4_170700_62815	NW_004517048.1	Scaffold1983	62815	TT	AA	1947025851
SNP_P4_170701_62819	NW_004517048.1	Scaffold1983	62819	GG	AA	1947025853
SNP_P4_170703_63153	NW_004517048.1	Scaffold1983	63153	GG	TT	1947025855
SNP_P4_170704_63409	NW_004517048.1	Scaffold1983	63409	TT	AA	1947025857
SNP_P4_170705_31252	NW_004517049.1	Scaffold1984	31252	CC	AA	1947025859
SNP_P4_170706_62914	NW_004517049.1	Scaffold1984	62914	CC	TT	1947025861
SNP_P4_170707_63840	NW_004517049.1	Scaffold1984	63840	CC	TT	1947025863
SNP_P4_170708_65883	NW_004517049.1	Scaffold1984	65883	GG	AA	1947025865
SNP_P4_170709_79175	NW_004517049.1	Scaffold1984	79175	AA	CC	1947025867
SNP_P4_170710_96719	NW_004517049.1	Scaffold1984	96719	TT	GG	1947025869
SNP_P4_170711_97033	NW_004517049.1	Scaffold1984	97033	AA	CC	1947025871
SNP_P4_170712_100821	NW_004517049.1	Scaffold1984	100821	CC	AA	1947025874
SNP_P4_170714_133807	NW_004517049.1	Scaffold1984	133807	TT	CC	1947025876
SNP_P4_170715_134135	NW_004517049.1	Scaffold1984	134135	TT	CC	1947025878
SNP_P4_170716_134176	NW_004517049.1	Scaffold1984	134176	GG	AA	1947025880
SNP_P4_170719_135980	NW_004517049.1	Scaffold1984	135980	TT	CC	1947025882
SNP_P4_170720_136048	NW_004517049.1	Scaffold1984	136048	GG	AA	1947025884
SNP_P4_170721_142735	NW_004517049.1	Scaffold1984	142735	CC	TT	1947025886
SNP_P4_170722_142738	NW_004517049.1	Scaffold1984	142738	CC	TT	1947025888
SNP_P4_170723_166174	NW_004517049.1	Scaffold1984	166174	GG	TT	1947025890
SNP_P4_170724_166176	NW_004517049.1	Scaffold1984	166176	TT	CC	1947025892
SNP_P4_170725_166177	NW_004517049.1	Scaffold1984	166177	GG	CC	1947025894
SNP_P4_170726_171935	NW_004517049.1	Scaffold1984	171935	GG	AA	1947025896
SNP_P4_170727_172426	NW_004517049.1	Scaffold1984	172426	GG	CC	1947025898
SNP_P4_170728_172439	NW_004517049.1	Scaffold1984	172439	TT	CC	1947025900
SNP_P4_170729_172606	NW_004517049.1	Scaffold1984	172606	AA	GG	1947025902

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_170731_244290	NW_004517049.1	Scaffold1984	244290	AA	CC	1947025906
SNP_P4_170732_244461	NW_004517049.1	Scaffold1984	244461	AA	GG	1947025908
SNP_P4_170733_244511	NW_004517049.1	Scaffold1984	244511	AA	GG	1947025910
SNP_P4_170734_244513	NW_004517049.1	Scaffold1984	244513	AA	GG	1947025912
SNP_P4_170735_244526	NW_004517049.1	Scaffold1984	244526	TT	GG	1947025914
SNP_P4_170736_247046	NW_004517049.1	Scaffold1984	247046	GG	AA	1947025916
SNP_P4_170737_251467	NW_004517049.1	Scaffold1984	251467	CC	TT	1947025918
SNP_P4_170738_251593	NW_004517049.1	Scaffold1984	251593	AA	CC	1947025920
SNP_P4_170739_251607	NW_004517049.1	Scaffold1984	251607	TT	CC	1947025922
SNP_P4_170740_251618	NW_004517049.1	Scaffold1984	251618	CC	GG	1947025924
SNP_P4_170741_251622	NW_004517049.1	Scaffold1984	251622	TT	CC	1947025926
SNP_P4_170742_251651	NW_004517049.1	Scaffold1984	251651	TT	CC	1947025928
SNP_P4_170743_251801	NW_004517049.1	Scaffold1984	251801	CC	TT	1947025930
SNP_P4_170744_251978	NW_004517049.1	Scaffold1984	251978	AA	CC	1947025932
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SNP_P4_170747_253667	NW_004517049.1	Scaffold1984	253667	CC	TT	1947025938
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SNP_P4_170750_255335	NW_004517049.1	Scaffold1984	255335	TT	CC	1947025944
SNP_P4_170751_255431	NW_004517049.1	Scaffold1984	255431	AA	GG	1947025946
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SNP_P4_170753_255453	NW_004517049.1	Scaffold1984	255453	AA	GG	1947025950
SNP_P4_170754_255682	NW_004517049.1	Scaffold1984	255682	TT	GG	1947025952
SNP_P4_170755_255868	NW_004517049.1	Scaffold1984	255868	AA	CC	1947025954
SNP_P4_170757_323144	NW_004517049.1	Scaffold1984	323144	TT	AA	1947025956
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SNP_P4_170759_323527	NW_004517049.1	Scaffold1984	323527	TT	AA	1947025960
SNP_P4_170760_323575	NW_004517049.1	Scaffold1984	323575	CC	TT	1947025962
SNP_P4_170761_323593	NW_004517049.1	Scaffold1984	323593	TT	CC	1947025964
SNP_P4_170762_323674	NW_004517049.1	Scaffold1984	323674	GG	TT	1947025966
SNP_P4_170763_323802	NW_004517049.1	Scaffold1984	323802	TT	CC	1947025968
SNP_P4_170764_323805	NW_004517049.1	Scaffold1984	323805	AA	GG	1947025970
SNP_P4_170765_323806	NW_004517049.1	Scaffold1984	323806	GG	AA	1947025973
SNP_P4_170766_323847	NW_004517049.1	Scaffold1984	323847	AA	GG	1947025975
SNP_P4_170767_325206	NW_004517049.1	Scaffold1984	325206	GG	AA	1947025977
SNP_P4_170768_325320	NW_004517049.1	Scaffold1984	325320	AA	GG	1947025979
SNP_P4_170769_325346	NW_004517049.1	Scaffold1984	325346	AA	GG	1947025981
SNP_P4_170770_325392	NW_004517049.1	Scaffold1984	325392	TT	CC	1947025983
SNP_P4_170771_325550	NW_004517049.1	Scaffold1984	325550	TT	CC	1947025985
SNP_P4_170772_325559	NW_004517049.1	Scaffold1984	325559	TT	CC	1947025987

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_170773_325586	NW_004517049.1	Scaffold1984	325586	GG	AA	1947025989
SNP_P4_170774_325685	NW_004517049.1	Scaffold1984	325685	GG	AA	1947025991
SNP_P4_170775_325713	NW_004517049.1	Scaffold1984	325713	GG	AA	1947025993
SNP_P4_170776_325744	NW_004517049.1	Scaffold1984	325744	TT	AA	1947025995
SNP_P4_170777_325754	NW_004517049.1	Scaffold1984	325754	AA	GG	1947025997
SNP_P4_170778_325761	NW_004517049.1	Scaffold1984	325761	AA	CC	1947025999
SNP_P4_170779_325779	NW_004517049.1	Scaffold1984	325779	TT	CC	1947026001
SNP_P4_170780_325784	NW_004517049.1	Scaffold1984	325784	GG	AA	1947026003
SNP_P4_170781_325790	NW_004517049.1	Scaffold1984	325790	GG	AA	1947026005
SNP_P4_170782_325808	NW_004517049.1	Scaffold1984	325808	CC	TT	1947026007
SNP_P4_170783_335395	NW_004517049.1	Scaffold1984	335395	AA	TT	1947026010
SNP_P4_170784_336575	NW_004517049.1	Scaffold1984	336575	TT	CC	1947026012
SNP_P4_170785_339709	NW_004517049.1	Scaffold1984	339709	GG	AA	1947026014
SNP_P4_170786_342970	NW_004517049.1	Scaffold1984	342970	TT	GG	1947026016
SNP_P4_170787_343059	NW_004517049.1	Scaffold1984	343059	TT	CC	1947026018
SNP_P4_170788_343354	NW_004517049.1	Scaffold1984	343354	TT	CC	1947026020
SNP_P4_170789_343367	NW_004517049.1	Scaffold1984	343367	TT	GG	1947026022
SNP_P4_170790_343399	NW_004517049.1	Scaffold1984	343399	TT	CC	1947026024
SNP_P4_170791_343416	NW_004517049.1	Scaffold1984	343416	TT	CC	1947026026
SNP_P4_170792_343449	NW_004517049.1	Scaffold1984	343449	AA	GG	1947026028
SNP_P4_170793_343465	NW_004517049.1	Scaffold1984	343465	AA	GG	1947026030
SNP_P4_170794_345913	NW_004517049.1	Scaffold1984	345913	TT	CC	1947026032
SNP_P4_170795_350331	NW_004517049.1	Scaffold1984	350331	CC	AA	1947026034
SNP_P4_170796_350342	NW_004517049.1	Scaffold1984	350342	AA	GG	1947026036
SNP_P4_170797_351213	NW_004517049.1	Scaffold1984	351213	CC	TT	1947026038
SNP_P4_170798_359978	NW_004517049.1	Scaffold1984	359978	AA	GG	1947026040
SNP_P4_170799_359991	NW_004517049.1	Scaffold1984	359991	TT	CC	1947026042
SNP_P4_170800_360007	NW_004517049.1	Scaffold1984	360007	AA	GG	1947026044
SNP_P4_170801_360122	NW_004517049.1	Scaffold1984	360122	CC	AA	1947026046
SNP_P4_170802_360229	NW_004517049.1	Scaffold1984	360229	AA	GG	1947026048
SNP_P4_170803_360316	NW_004517049.1	Scaffold1984	360316	AA	GG	1947026050
SNP_P4_170804_362646	NW_004517049.1	Scaffold1984	362646	AA	CC	1947026052
SNP_P4_170805_363077	NW_004517049.1	Scaffold1984	363077	CC	TT	1947026054
SNP_P4_170806_363281	NW_004517049.1	Scaffold1984	363281	TT	CC	1947026056
SNP_P4_170807_369347	NW_004517049.1	Scaffold1984	369347	TT	CC	1947026058
SNP_P4_170808_384349	NW_004517049.1	Scaffold1984	384349	TT	AA	1947026060
SNP_P4_170809_384350	NW_004517049.1	Scaffold1984	384350	CC	AA	1947026062
SNP_P4_170810_384351	NW_004517049.1	Scaffold1984	384351	AA	TT	1947026064
SNP_P4_170811_384352	NW_004517049.1	Scaffold1984	384352	AA	TT	1947026066
SNP_P4_170812_384353	NW_004517049.1	Scaffold1984	384353	AA	TT	1947026068
SNP_P4_170813_384356	NW_004517049.1	Scaffold1984	384356	CC	AA	1947026070
SNP_P4_170814_384358	NW_004517049.1	Scaffold1984	384358	CC	AA	1947026072

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_170815_384374	NW_004517049.1	Scaffold1984	384374	CC	AA	1947026074
SNP_P4_170816_384375	NW_004517049.1	Scaffold1984	384375	AA	TT	1947026076
SNP_P4_170817_384744	NW_004517049.1	Scaffold1984	384744	TT	GG	1947026078
SNP_P4_170818_386457	NW_004517049.1	Scaffold1984	386457	CC	TT	1947026080
SNP_P4_170819_386604	NW_004517049.1	Scaffold1984	386604	AA	TT	1947026082
SNP_P4_170820_386835	NW_004517049.1	Scaffold1984	386835	AA	GG	1947026084
SNP_P4_170821_386943	NW_004517049.1	Scaffold1984	386943	TT	CC	1947026086
SNP_P4_170822_386963	NW_004517049.1	Scaffold1984	386963	CC	TT	1947026088
SNP_P4_170823_387057	NW_004517049.1	Scaffold1984	387057	GG	AA	1947026090
SNP_P4_170824_387139	NW_004517049.1	Scaffold1984	387139	TT	CC	1947026091
SNP_P4_170825_4601	NW_004517050.1	Scaffold1985	4601	AA	GG	1947026092
SNP_P4_170826_4917	NW_004517050.1	Scaffold1985	4917	TT	GG	1947026093
SNP_P4_170827_4959	NW_004517050.1	Scaffold1985	4959	AA	GG	1947026094
SNP_P4_170828_4981	NW_004517050.1	Scaffold1985	4981	AA	GG	1947026095
SNP_P4_170829_4998	NW_004517050.1	Scaffold1985	4998	TT	CC	1947026096
SNP_P4_170830_109196	NW_004517050.1	Scaffold1985	109196	CC	TT	1947026097
SNP_P4_170831_109200	NW_004517050.1	Scaffold1985	109200	AA	GG	1947026098
SNP_P4_170832_109270	NW_004517050.1	Scaffold1985	109270	AA	GG	1947026099
SNP_P4_170833_109282	NW_004517050.1	Scaffold1985	109282	CC	AA	1947026100
SNP_P4_170834_109411	NW_004517050.1	Scaffold1985	109411	AA	GG	1947026102
SNP_P4_170835_109538	NW_004517050.1	Scaffold1985	109538	AA	GG	1947026104
SNP_P4_170836_109585	NW_004517050.1	Scaffold1985	109585	AA	GG	1947026106
SNP_P4_170837_109600	NW_004517050.1	Scaffold1985	109600	GG	AA	1947026108
SNP_P4_170838_109614	NW_004517050.1	Scaffold1985	109614	TT	CC	1947026110
SNP_P4_170839_109625	NW_004517050.1	Scaffold1985	109625	TT	CC	1947026112
SNP_P4_170840_109641	NW_004517050.1	Scaffold1985	109641	GG	AA	1947026114
SNP_P4_170841_110282	NW_004517050.1	Scaffold1985	110282	CC	TT	1947026116
SNP_P4_170842_110299	NW_004517050.1	Scaffold1985	110299	TT	AA	1947026118
SNP_P4_170843_110305	NW_004517050.1	Scaffold1985	110305	AA	GG	1947026120
SNP_P4_170844_134795	NW_004517050.1	Scaffold1985	134795	TT	CC	1947026122
SNP_P4_170845_135426	NW_004517050.1	Scaffold1985	135426	TT	CC	1947026124
SNP_P4_170846_141811	NW_004517050.1	Scaffold1985	141811	TT	CC	1947026126
SNP_P4_170847_141876	NW_004517050.1	Scaffold1985	141876	AA	TT	1947026128
SNP_P4_170848_141894	NW_004517050.1	Scaffold1985	141894	TT	AA	1947026130
SNP_P4_170849_142178	NW_004517050.1	Scaffold1985	142178	CC	TT	1947026132
SNP_P4_170850_3744	NW_004517052.1	Scaffold1987	3744	TT	CC	1947026134
SNP_P4_170851_3745	NW_004517052.1	Scaffold1987	3745	TT	AA	1947026136
SNP_P4_170853_4562	NW_004517053.1	Scaffold1988	4562	AA	CC	1947026138
SNP_P4_170854_4590	NW_004517053.1	Scaffold1988	4590	CC	TT	1947026140
SNP_P4_170855_4737	NW_004517053.1	Scaffold1988	4737	TT	CC	1947026142
SNP_P4_170856_4794	NW_004517053.1	Scaffold1988	4794	AA	GG	1947026144
SNP_P4_170857_4798	NW_004517053.1	Scaffold1988	4798	GG	CC	1947026146

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_170858_4965	NW_004517053.1	Scaffold1988	4965	CC	GG	1947026148
SNP_P4_170859_4988	NW_004517053.1	Scaffold1988	4988	GG	AA	1947026150
SNP_P4_170860_5207	NW_004517053.1	Scaffold1988	5207	CC	TT	1947026152
SNP_P4_170861_7447	NW_004517053.1	Scaffold1988	7447	GG	TT	1947026154
SNP_P4_170862_7515	NW_004517053.1	Scaffold1988	7515	TT	AA	1947026156
SNP_P4_170863_7523	NW_004517053.1	Scaffold1988	7523	TT	GG	1947026158
SNP_P4_170864_7756	NW_004517053.1	Scaffold1988	7756	TT	GG	1947026160
SNP_P4_170866_13907	NW_004517053.1	Scaffold1988	13907	TT	CC	1947026162
SNP_P4_170867_14100	NW_004517053.1	Scaffold1988	14100	CC	TT	1947026164
SNP_P4_170868_4319	NW_004517055.1	Scaffold1990	4319	GG	TT	1947026166
SNP_P4_170869_4399	NW_004517055.1	Scaffold1990	4399	AA	GG	1947026168
SNP_P4_170870_4400	NW_004517055.1	Scaffold1990	4400	AA	GG	1947026170
SNP_P4_170871_4406	NW_004517055.1	Scaffold1990	4406	TT	CC	1947026172
SNP_P4_170873_18151	NW_004517056.1	Scaffold1991	18151	TT	CC	1947026174
SNP_P4_170874_62154	NW_004517056.1	Scaffold1991	62154	TT	GG	1947026176
SNP_P4_170875_81835	NW_004517056.1	Scaffold1991	81835	AA	CC	1947026178
SNP_P4_170876_93730	NW_004517056.1	Scaffold1991	93730	GG	TT	1947026180
SNP_P4_170877_100123	NW_004517056.1	Scaffold1991	100123	TT	CC	1947026182
SNP_P4_170879_113487	NW_004517056.1	Scaffold1991	113487	CC	AA	1947026184
SNP_P4_170880_113518	NW_004517056.1	Scaffold1991	113518	AA	GG	1947026186
SNP_P4_170881_113612	NW_004517056.1	Scaffold1991	113612	GG	CC	1947026188
SNP_P4_170882_113633	NW_004517056.1	Scaffold1991	113633	AA	CC	1947026190
SNP_P4_170883_113915	NW_004517056.1	Scaffold1991	113915	TT	CC	1947026192
SNP_P4_170884_113975	NW_004517056.1	Scaffold1991	113975	GG	AA	1947026194
SNP_P4_170885_113988	NW_004517056.1	Scaffold1991	113988	AA	GG	1947026196
SNP_P4_170886_113998	NW_004517056.1	Scaffold1991	113998	GG	AA	1947026198
SNP_P4_170887_114003	NW_004517056.1	Scaffold1991	114003	CC	TT	1947026200
SNP_P4_170888_114007	NW_004517056.1	Scaffold1991	114007	TT	CC	1947026202
SNP_P4_170889_114008	NW_004517056.1	Scaffold1991	114008	CC	TT	1947026204
SNP_P4_170890_116610	NW_004517056.1	Scaffold1991	116610	CC	TT	1947026206
SNP_P4_170892_632	NW_004517061.1	Scaffold1996	632	GG	AA	1947026208
SNP_P4_170893_744	NW_004517061.1	Scaffold1996	744	GG	AA	1947026210
SNP_P4_170894_1036	NW_004517061.1	Scaffold1996	1036	CC	TT	1947026212
SNP_P4_170895_1039	NW_004517061.1	Scaffold1996	1039	CC	TT	1947026214
SNP_P4_170896_1041	NW_004517061.1	Scaffold1996	1041	GG	AA	1947026216
SNP_P4_170897_1057	NW_004517061.1	Scaffold1996	1057	GG	AA	1947026218
SNP_P4_170898_1084	NW_004517061.1	Scaffold1996	1084	CC	TT	1947026220
SNP_P4_170899_1099	NW_004517061.1	Scaffold1996	1099	CC	AA	1947026222
SNP_P4_170901_1696	NW_004517061.1	Scaffold1996	1696	CC	TT	1947026224
SNP_P4_170902_5502	NW_004517061.1	Scaffold1996	5502	GG	AA	1947026226
SNP_P4_170903_5518	NW_004517061.1	Scaffold1996	5518	GG	TT	1947026228
SNP_P4_170904_5563	NW_004517061.1	Scaffold1996	5563	AA	GG	1947026230

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_170907_5745	NW_004517061.1	Scaffold1996	5745	CC	AA	1947026234
SNP_P4_170908_5863	NW_004517061.1	Scaffold1996	5863	GG	AA	1947026236
SNP_P4_170909_5866	NW_004517061.1	Scaffold1996	5866	TT	CC	1947026238
SNP_P4_170910_5902	NW_004517061.1	Scaffold1996	5902	TT	AA	1947026240
SNP_P4_170911_5947	NW_004517061.1	Scaffold1996	5947	CC	TT	1947026241
SNP_P4_170913_6048	NW_004517061.1	Scaffold1996	6048	GG	AA	1947026243
SNP_P4_170914_6059	NW_004517061.1	Scaffold1996	6059	CC	TT	1947026245
SNP_P4_170915_6074	NW_004517061.1	Scaffold1996	6074	AA	GG	1947026247
SNP_P4_170916_6160	NW_004517061.1	Scaffold1996	6160	AA	GG	1947026249
SNP_P4_170917_6221	NW_004517061.1	Scaffold1996	6221	TT	CC	1947026251
SNP_P4_170918_420	NW_004517062.1	Scaffold1997	420	AA	CC	1947026253
SNP_P4_170919_541	NW_004517062.1	Scaffold1997	541	AA	TT	1947026255
SNP_P4_170920_542	NW_004517062.1	Scaffold1997	542	TT	CC	1947026257
SNP_P4_170921_584	NW_004517062.1	Scaffold1997	584	AA	GG	1947026259
SNP_P4_170922_15435	NW_004517062.1	Scaffold1997	15435	TT	AA	1947026261
SNP_P4_170924_2952	NW_004517063.1	Scaffold1999	2952	CC	AA	1947026263
SNP_P4_170925_2958	NW_004517063.1	Scaffold1999	2958	AA	GG	1947026265
SNP_P4_170926_3035	NW_004517063.1	Scaffold1999	3035	GG	AA	1947026267
SNP_P4_170927_3092	NW_004517063.1	Scaffold1999	3092	TT	CC	1947026269
SNP_P4_170928_4026	NW_004517063.1	Scaffold1999	4026	TT	CC	1947026270
SNP_P4_170929_4458	NW_004517063.1	Scaffold1999	4458	GG	AA	1947026272
SNP_P4_170930_4462	NW_004517063.1	Scaffold1999	4462	GG	AA	1947026274
SNP_P4_170931_7576	NW_004517063.1	Scaffold1999	7576	TT	GG	1947026276
SNP_P4_170932_7581	NW_004517063.1	Scaffold1999	7581	GG	AA	1947026278
SNP_P4_170933_7627	NW_004517063.1	Scaffold1999	7627	AA	TT	1947026280
SNP_P4_170934_7697	NW_004517063.1	Scaffold1999	7697	GG	AA	1947026282
SNP_P4_170935_7913	NW_004517063.1	Scaffold1999	7913	AA	TT	1947026284
SNP_P4_170936_9986	NW_004517063.1	Scaffold1999	9986	CC	TT	1947026286
SNP_P4_170937_10962	NW_004517063.1	Scaffold1999	10962	AA	CC	1947026288
SNP_P4_170938_22804	NW_004517063.1	Scaffold1999	22804	AA	GG	1947026290
SNP_P4_170939_24873	NW_004517063.1	Scaffold1999	24873	CC	AA	1947026292
SNP_P4_170940_25728	NW_004517063.1	Scaffold1999	25728	AA	TT	1947026294
SNP_P4_170941_25857	NW_004517063.1	Scaffold1999	25857	CC	TT	1947026296
SNP_P4_170942_25931	NW_004517063.1	Scaffold1999	25931	GG	TT	1947026298
SNP_P4_170943_26052	NW_004517063.1	Scaffold1999	26052	TT	AA	1947026300
SNP_P4_170945_28005	NW_004517063.1	Scaffold1999	28005	TT	CC	1947026302
SNP_P4_170946_28230	NW_004517063.1	Scaffold1999	28230	GG	AA	1947026303
SNP_P4_170947_28859	NW_004517063.1	Scaffold1999	28859	CC	GG	1947026305
SNP_P4_170948_29510	NW_004517063.1	Scaffold1999	29510	AA	TT	1947026307
SNP_P4_170949_29540	NW_004517063.1	Scaffold1999	29540	AA	GG	1947026309
SNP_P4_170951_29821	NW_004517063.1	Scaffold1999	29821	GG	AA	1947026311

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_170954_30014	NW_004517063.1	Scaffold1999	30014	GG	CC	1947026316
SNP_P4_170955_30130	NW_004517063.1	Scaffold1999	30130	CC	GG	1947026318
SNP_P4_170956_30133	NW_004517063.1	Scaffold1999	30133	CC	TT	1947026320
SNP_P4_170957_30248	NW_004517063.1	Scaffold1999	30248	GG	CC	1947026322
SNP_P4_170958_30249	NW_004517063.1	Scaffold1999	30249	GG	AA	1947026324
SNP_P4_170959_30319	NW_004517063.1	Scaffold1999	30319	TT	AA	1947026326
SNP_P4_170960_30490	NW_004517063.1	Scaffold1999	30490	CC	TT	1947026328
SNP_P4_170961_30604	NW_004517063.1	Scaffold1999	30604	AA	GG	1947026330
SNP_P4_170962_30698	NW_004517063.1	Scaffold1999	30698	TT	AA	1947026332
SNP_P4_170963_30719	NW_004517063.1	Scaffold1999	30719	AA	GG	1947026334
SNP_P4_170964_30741	NW_004517063.1	Scaffold1999	30741	CC	TT	1947026336
SNP_P4_170965_30774	NW_004517063.1	Scaffold1999	30774	GG	AA	1947026338
SNP_P4_170966_30799	NW_004517063.1	Scaffold1999	30799	CC	TT	1947026340
SNP_P4_170967_31134	NW_004517063.1	Scaffold1999	31134	AA	TT	1947026342
SNP_P4_170968_31258	NW_004517063.1	Scaffold1999	31258	GG	AA	1947026344
SNP_P4_170969_31902	NW_004517063.1	Scaffold1999	31902	CC	GG	1947026346
SNP_P4_170970_31963	NW_004517063.1	Scaffold1999	31963	CC	TT	1947026348
SNP_P4_170971_31975	NW_004517063.1	Scaffold1999	31975	CC	AA	1947026350
SNP_P4_170972_32111	NW_004517063.1	Scaffold1999	32111	TT	AA	1947026353
SNP_P4_170973_32192	NW_004517063.1	Scaffold1999	32192	TT	CC	1947026355
SNP_P4_170974_32312	NW_004517063.1	Scaffold1999	32312	TT	CC	1947026357
SNP_P4_170975_32326	NW_004517063.1	Scaffold1999	32326	CC	GG	1947026359
SNP_P4_170976_32374	NW_004517063.1	Scaffold1999	32374	GG	AA	1947026361
SNP_P4_170977_32503	NW_004517063.1	Scaffold1999	32503	TT	GG	1947026363
SNP_P4_170978_32524	NW_004517063.1	Scaffold1999	32524	TT	AA	1947026365
SNP_P4_170979_32602	NW_004517063.1	Scaffold1999	32602	GG	TT	1947026367
SNP_P4_170980_113	NW_004517064.1	Scaffold2000	113	GG	CC	1947026369
SNP_P4_170981_1088	NW_004517064.1	Scaffold2000	1088	TT	AA	1947026371
SNP_P4_170982_1100	NW_004517064.1	Scaffold2000	1100	AA	CC	1947026373
SNP_P4_170983_1115	NW_004517064.1	Scaffold2000	1115	AA	TT	1947026375
SNP_P4_170984_1127	NW_004517064.1	Scaffold2000	1127	CC	TT	1947026377
SNP_P4_170985_1140	NW_004517064.1	Scaffold2000	1140	TT	CC	1947026379
SNP_P4_170986_1164	NW_004517064.1	Scaffold2000	1164	GG	AA	1947026381
SNP_P4_170987_1245	NW_004517064.1	Scaffold2000	1245	AA	GG	1947026383
SNP_P4_170988_1258	NW_004517064.1	Scaffold2000	1258	AA	CC	1947026385
SNP_P4_170989_1376	NW_004517064.1	Scaffold2000	1376	CC	TT	1947026387
SNP_P4_170990_1444	NW_004517064.1	Scaffold2000	1444	GG	AA	1947026389
SNP_P4_170991_1523	NW_004517064.1	Scaffold2000	1523	CC	GG	1947026392
SNP_P4_170993_1565	NW_004517064.1	Scaffold2000	1565	AA	GG	1947026394
SNP_P4_170994_1606	NW_004517064.1	Scaffold2000	1606	AA	CC	1947026396
SNP_P4_170995_1613	NW_004517064.1	Scaffold2000	1613	TT	GG	1947026398

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_170996_1625	NW_004517064.1	Scaffold2000	1625	CC	AA	1947026400
SNP_P4_170997_1627	NW_004517064.1	Scaffold2000	1627	AA	TT	1947026402
SNP_P4_170998_1671	NW_004517064.1	Scaffold2000	1671	TT	GG	1947026404
SNP_P4_170999_1686	NW_004517064.1	Scaffold2000	1686	GG	CC	1947026406
SNP_P4_171000_1709	NW_004517064.1	Scaffold2000	1709	GG	AA	1947026408
SNP_P4_171001_1746	NW_004517064.1	Scaffold2000	1746	TT	CC	1947026410
SNP_P4_171002_1750	NW_004517064.1	Scaffold2000	1750	TT	AA	1947026412
SNP_P4_171003_1754	NW_004517064.1	Scaffold2000	1754	TT	AA	1947026414
SNP_P4_171004_1765	NW_004517064.1	Scaffold2000	1765	TT	CC	1947026416
SNP_P4_171005_2029	NW_004517064.1	Scaffold2000	2029	CC	AA	1947026418
SNP_P4_171006_2158	NW_004517064.1	Scaffold2000	2158	GG	TT	1947026420
SNP_P4_171007_2163	NW_004517064.1	Scaffold2000	2163	CC	AA	1947026422
SNP_P4_171008_2251	NW_004517064.1	Scaffold2000	2251	TT	AA	1947026424
SNP_P4_171009_2351	NW_004517064.1	Scaffold2000	2351	TT	AA	1947026426
SNP_P4_171010_2382	NW_004517064.1	Scaffold2000	2382	CC	AA	1947026428
SNP_P4_171011_2396	NW_004517064.1	Scaffold2000	2396	AA	GG	1947026430
SNP_P4_171012_2418	NW_004517064.1	Scaffold2000	2418	GG	TT	1947026432
SNP_P4_171013_2530	NW_004517064.1	Scaffold2000	2530	AA	CC	1947026434
SNP_P4_171014_2557	NW_004517064.1	Scaffold2000	2557	AA	GG	1947026436
SNP_P4_171015_2560	NW_004517064.1	Scaffold2000	2560	CC	AA	1947026438
SNP_P4_171016_2577	NW_004517064.1	Scaffold2000	2577	GG	TT	1947026440
SNP_P4_171017_2580	NW_004517064.1	Scaffold2000	2580	AA	TT	1947026442
SNP_P4_171018_2641	NW_004517064.1	Scaffold2000	2641	GG	CC	1947026444
SNP_P4_171019_2678	NW_004517064.1	Scaffold2000	2678	CC	AA	1947026446
SNP_P4_171020_2705	NW_004517064.1	Scaffold2000	2705	GG	CC	1947026448
SNP_P4_171021_2730	NW_004517064.1	Scaffold2000	2730	AA	TT	1947026450
SNP_P4_171022_2811	NW_004517064.1	Scaffold2000	2811	AA	CC	1947026452
SNP_P4_171023_2818	NW_004517064.1	Scaffold2000	2818	GG	TT	1947026454
SNP_P4_171024_2852	NW_004517064.1	Scaffold2000	2852	GG	AA	1947026456
SNP_P4_171025_2895	NW_004517064.1	Scaffold2000	2895	TT	CC	1947026458
SNP_P4_171026_2917	NW_004517064.1	Scaffold2000	2917	AA	GG	1947026460
SNP_P4_171027_2922	NW_004517064.1	Scaffold2000	2922	TT	AA	1947026462
SNP_P4_171028_2937	NW_004517064.1	Scaffold2000	2937	CC	TT	1947026464
SNP_P4_171029_2944	NW_004517064.1	Scaffold2000	2944	TT	AA	1947026466
SNP_P4_171030_2965	NW_004517064.1	Scaffold2000	2965	CC	AA	1947026468
SNP_P4_171031_2971	NW_004517064.1	Scaffold2000	2971	CC	AA	1947026470
SNP_P4_171032_3005	NW_004517064.1	Scaffold2000	3005	TT	CC	1947026472
SNP_P4_171033_3026	NW_004517064.1	Scaffold2000	3026	CC	GG	1947026474
SNP_P4_171034_3027	NW_004517064.1	Scaffold2000	3027	GG	CC	1947026476
SNP_P4_171035_3039	NW_004517064.1	Scaffold2000	3039	AA	GG	1947026478
SNP_P4_171036_9452	NW_004517064.1	Scaffold2000	9452	CC	TT	1947026480
SNP_P4_171037_9832	NW_004517064.1	Scaffold2000	9832	AA	GG	1947026482

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_171038_9844	NW_004517064.1	Scaffold2000	9844	CC	TT	1947026485
SNP_P4_171039_10379	NW_004517064.1	Scaffold2000	10379	GG	CC	1947026487
SNP_P4_171040_10741	NW_004517064.1	Scaffold2000	10741	AA	GG	1947026489
SNP_P4_171041_10795	NW_004517064.1	Scaffold2000	10795	CC	TT	1947026491
SNP_P4_171042_10811	NW_004517064.1	Scaffold2000	10811	GG	AA	1947026493
SNP_P4_171044_10890	NW_004517064.1	Scaffold2000	10890	TT	CC	1947026495
SNP_P4_171046_10942	NW_004517064.1	Scaffold2000	10942	TT	GG	1947026497
SNP_P4_171047_10945	NW_004517064.1	Scaffold2000	10945	GG	AA	1947026499
SNP_P4_171048_10962	NW_004517064.1	Scaffold2000	10962	AA	CC	1947026502
SNP_P4_171049_11238	NW_004517064.1	Scaffold2000	11238	GG	CC	1947026504
SNP_P4_171050_11259	NW_004517064.1	Scaffold2000	11259	CC	GG	1947026506
SNP_P4_171051_11275	NW_004517064.1	Scaffold2000	11275	GG	TT	1947026508
SNP_P4_171052_11276	NW_004517064.1	Scaffold2000	11276	GG	AA	1947026510
SNP_P4_171053_11302	NW_004517064.1	Scaffold2000	11302	CC	TT	1947026512
SNP_P4_171054_11341	NW_004517064.1	Scaffold2000	11341	AA	GG	1947026514
SNP_P4_171055_11365	NW_004517064.1	Scaffold2000	11365	CC	TT	1947026516
SNP_P4_171056_11411	NW_004517064.1	Scaffold2000	11411	CC	GG	1947026518
SNP_P4_171057_11420	NW_004517064.1	Scaffold2000	11420	GG	TT	1947026520
SNP_P4_171058_11425	NW_004517064.1	Scaffold2000	11425	TT	GG	1947026522
SNP_P4_171059_11544	NW_004517064.1	Scaffold2000	11544	AA	GG	1947026524
SNP_P4_171060_11569	NW_004517064.1	Scaffold2000	11569	CC	GG	1947026526
SNP_P4_171061_11603	NW_004517064.1	Scaffold2000	11603	GG	AA	1947026528
SNP_P4_171062_11735	NW_004517064.1	Scaffold2000	11735	CC	GG	1947026530
SNP_P4_171063_13844	NW_004517064.1	Scaffold2000	13844	CC	GG	1947026532
SNP_P4_171064_13866	NW_004517064.1	Scaffold2000	13866	AA	GG	1947026534
SNP_P4_171065_13887	NW_004517064.1	Scaffold2000	13887	TT	AA	1947026536
SNP_P4_171066_13894	NW_004517064.1	Scaffold2000	13894	TT	GG	1947026538
SNP_P4_171067_14156	NW_004517064.1	Scaffold2000	14156	AA	CC	1947026540
SNP_P4_171068_14241	NW_004517064.1	Scaffold2000	14241	CC	TT	1947026542
SNP_P4_171069_18454	NW_004517064.1	Scaffold2000	18454	AA	CC	1947026544
SNP_P4_171070_18477	NW_004517064.1	Scaffold2000	18477	TT	AA	1947026546
SNP_P4_171071_18504	NW_004517064.1	Scaffold2000	18504	TT	CC	1947026548
SNP_P4_171072_18818	NW_004517064.1	Scaffold2000	18818	TT	GG	1947026550
SNP_P4_171073_18859	NW_004517064.1	Scaffold2000	18859	AA	GG	1947026552
SNP_P4_171074_18886	NW_004517064.1	Scaffold2000	18886	TT	CC	1947026554
SNP_P4_171075_20109	NW_004517064.1	Scaffold2000	20109	GG	AA	1947026556
SNP_P4_171076_20118	NW_004517064.1	Scaffold2000	20118	TT	AA	1947026558
SNP_P4_171077_20173	NW_004517064.1	Scaffold2000	20173	GG	TT	1947026560
SNP_P4_171078_20285	NW_004517064.1	Scaffold2000	20285	CC	AA	1947026562
SNP_P4_171079_20415	NW_004517064.1	Scaffold2000	20415	CC	TT	1947026564
SNP_P4_171080_20419	NW_004517064.1	Scaffold2000	20419	GG	TT	1947026566
SNP_P4_171081_20469	NW_004517064.1	Scaffold2000	20469	TT	AA	1947026568

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_171082_20635	NW_004517064.1	Scaffold2000	20635	AA	GG	1947026571
SNP_P4_171083_20663	NW_004517064.1	Scaffold2000	20663	TT	GG	1947026573
SNP_P4_171084_21435	NW_004517064.1	Scaffold2000	21435	GG	AA	1947026575
SNP_P4_171085_21443	NW_004517064.1	Scaffold2000	21443	CC	TT	1947026577
SNP_P4_171086_21493	NW_004517064.1	Scaffold2000	21493	GG	AA	1947026579
SNP_P4_171087_21555	NW_004517064.1	Scaffold2000	21555	AA	TT	1947026581
SNP_P4_171088_21557	NW_004517064.1	Scaffold2000	21557	CC	AA	1947026583
SNP_P4_171089_21623	NW_004517064.1	Scaffold2000	21623	AA	GG	1947026585
SNP_P4_171090_21624	NW_004517064.1	Scaffold2000	21624	CC	AA	1947026587
SNP_P4_171091_22159	NW_004517064.1	Scaffold2000	22159	TT	CC	1947026589
SNP_P4_171092_22442	NW_004517064.1	Scaffold2000	22442	AA	TT	1947026591
SNP_P4_171093_22446	NW_004517064.1	Scaffold2000	22446	GG	AA	1947026593
SNP_P4_171094_22479	NW_004517064.1	Scaffold2000	22479	CC	AA	1947026595
SNP_P4_171095_22495	NW_004517064.1	Scaffold2000	22495	GG	CC	1947026597
SNP_P4_171096_22504	NW_004517064.1	Scaffold2000	22504	CC	AA	1947026599
SNP_P4_171097_22517	NW_004517064.1	Scaffold2000	22517	AA	GG	1947026601
SNP_P4_171098_26646	NW_004517064.1	Scaffold2000	26646	TT	AA	1947026603
SNP_P4_171099_3592	NW_004517066.1	Scaffold2003	3592	AA	GG	1947026605
SNP_P4_171100_3606	NW_004517066.1	Scaffold2003	3606	AA	TT	1947026608
SNP_P4_171101_3643	NW_004517066.1	Scaffold2003	3643	TT	GG	1947026610
SNP_P4_171102_3651	NW_004517066.1	Scaffold2003	3651	TT	CC	1947026612
SNP_P4_171103_3719	NW_004517066.1	Scaffold2003	3719	GG	TT	1947026614
SNP_P4_171104_3727	NW_004517066.1	Scaffold2003	3727	CC	TT	1947026616
SNP_P4_171105_3740	NW_004517066.1	Scaffold2003	3740	CC	AA	1947026618
SNP_P4_171106_3771	NW_004517066.1	Scaffold2003	3771	GG	AA	1947026620
SNP_P4_171107_3774	NW_004517066.1	Scaffold2003	3774	GG	TT	1947026622
SNP_P4_171108_3775	NW_004517066.1	Scaffold2003	3775	TT	CC	1947026624
SNP_P4_171109_3776	NW_004517066.1	Scaffold2003	3776	GG	AA	1947026626
SNP_P4_171110_3778	NW_004517066.1	Scaffold2003	3778	CC	TT	1947026628
SNP_P4_171111_3789	NW_004517066.1	Scaffold2003	3789	AA	GG	1947026630
SNP_P4_171112_5262	NW_004517066.1	Scaffold2003	5262	TT	AA	1947026632
SNP_P4_171113_5293	NW_004517066.1	Scaffold2003	5293	TT	CC	1947026634
SNP_P4_171114_7505	NW_004517066.1	Scaffold2003	7505	GG	TT	1947026636
SNP_P4_171115_7903	NW_004517066.1	Scaffold2003	7903	TT	CC	1947026638
SNP_P4_171116_7962	NW_004517066.1	Scaffold2003	7962	AA	TT	1947026640
SNP_P4_171117_8219	NW_004517066.1	Scaffold2003	8219	AA	GG	1947026642
SNP_P4_171118_11119	NW_004517066.1	Scaffold2003	11119	TT	CC	1947026644
SNP_P4_171119_12480	NW_004517066.1	Scaffold2003	12480	AA	GG	1947026646
SNP_P4_171120_12500	NW_004517066.1	Scaffold2003	12500	AA	TT	1947026648
SNP_P4_171121_12521	NW_004517066.1	Scaffold2003	12521	GG	AA	1947026650
SNP_P4_171122_12525	NW_004517066.1	Scaffold2003	12525	TT	AA	1947026652
SNP_P4_171123_14296	NW_004517066.1	Scaffold2003	14296	CC	TT	1947026654

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_171124_14644	NW_004517066.1	Scaffold2003	14644	AA	TT	1947026656
SNP_P4_171125_15412	NW_004517066.1	Scaffold2003	15412	AA	TT	1947026658
SNP_P4_171126_15521	NW_004517066.1	Scaffold2003	15521	GG	AA	1947026660
SNP_P4_171127_15548	NW_004517066.1	Scaffold2003	15548	TT	AA	1947026662
SNP_P4_171128_15550	NW_004517066.1	Scaffold2003	15550	AA	CC	1947026664
SNP_P4_171129_15739	NW_004517066.1	Scaffold2003	15739	AA	TT	1947026666
SNP_P4_171130_15776	NW_004517066.1	Scaffold2003	15776	TT	AA	1947026668
SNP_P4_171131_16032	NW_004517066.1	Scaffold2003	16032	AA	TT	1947026670
SNP_P4_171132_16042	NW_004517066.1	Scaffold2003	16042	TT	AA	1947026672
SNP_P4_171133_17096	NW_004517066.1	Scaffold2003	17096	GG	TT	1947026674
SNP_P4_171134_18212	NW_004517066.1	Scaffold2003	18212	CC	TT	1947026676
SNP_P4_171135_19133	NW_004517066.1	Scaffold2003	19133	AA	GG	1947026678
SNP_P4_171136_19795	NW_004517066.1	Scaffold2003	19795	AA	GG	1947026680
SNP_P4_171137_19894	NW_004517066.1	Scaffold2003	19894	TT	CC	1947026682
SNP_P4_171138_19909	NW_004517066.1	Scaffold2003	19909	CC	AA	1947026684
SNP_P4_171140_21532	NW_004517066.1	Scaffold2003	21532	CC	AA	1947026686
SNP_P4_171141_21576	NW_004517066.1	Scaffold2003	21576	AA	GG	1947026688
SNP_P4_171142_22628	NW_004517066.1	Scaffold2003	22628	AA	GG	1947026690
SNP_P4_171143_22637	NW_004517066.1	Scaffold2003	22637	CC	AA	1947026692
SNP_P4_171144_23179	NW_004517066.1	Scaffold2003	23179	TT	CC	1947026694
SNP_P4_171145_23205	NW_004517066.1	Scaffold2003	23205	CC	AA	1947026696
SNP_P4_171146_23263	NW_004517066.1	Scaffold2003	23263	CC	TT	1947026698
SNP_P4_171147_23376	NW_004517066.1	Scaffold2003	23376	AA	TT	1947026700
SNP_P4_171148_23414	NW_004517066.1	Scaffold2003	23414	TT	CC	1947026702
SNP_P4_171149_23462	NW_004517066.1	Scaffold2003	23462	TT	CC	1947026704
SNP_P4_171150_23473	NW_004517066.1	Scaffold2003	23473	GG	CC	1947026706
SNP_P4_171151_23554	NW_004517066.1	Scaffold2003	23554	CC	AA	1947026708
SNP_P4_171152_23555	NW_004517066.1	Scaffold2003	23555	CC	TT	1947026710
SNP_P4_171153_23621	NW_004517066.1	Scaffold2003	23621	CC	TT	1947026712
SNP_P4_171154_32748	NW_004517066.1	Scaffold2003	32748	CC	GG	1947026714
SNP_P4_171155_32868	NW_004517066.1	Scaffold2003	32868	AA	TT	1947026717
SNP_P4_171156_34168	NW_004517066.1	Scaffold2003	34168	CC	TT	1947026719
SNP_P4_171157_10866	NW_004517067.1	Scaffold2004	10866	CC	TT	1947026721
SNP_P4_171158_2025	NW_004517068.1	Scaffold2005	2025	TT	GG	1947026723
SNP_P4_171160_3150	NW_004517068.1	Scaffold2005	3150	AA	GG	1947026725
SNP_P4_171161_3282	NW_004517068.1	Scaffold2005	3282	TT	CC	1947026727
SNP_P4_171162_4950	NW_004517068.1	Scaffold2005	4950	TT	CC	1947026729
SNP_P4_171163_6636	NW_004517068.1	Scaffold2005	6636	AA	GG	1947026731
SNP_P4_171164_8826	NW_004517068.1	Scaffold2005	8826	TT	CC	1947026733
SNP_P4_171165_8855	NW_004517068.1	Scaffold2005	8855	TT	GG	1947026735
SNP_P4_171166_9010	NW_004517068.1	Scaffold2005	9010	AA	TT	1947026737
SNP_P4_171167_9013	NW_004517068.1	Scaffold2005	9013	CC	TT	1947026739

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_171169_9185	NW_004517068.1	Scaffold2005	9185	TT	CC	1947026743
SNP_P4_171170_9228	NW_004517068.1	Scaffold2005	9228	GG	AA	1947026745
SNP_P4_171171_9576	NW_004517068.1	Scaffold2005	9576	AA	CC	1947026747
SNP_P4_171172_11096	NW_004517068.1	Scaffold2005	11096	GG	AA	1947026749
SNP_P4_171173_11613	NW_004517068.1	Scaffold2005	11613	CC	TT	1947026751
SNP_P4_171174_11821	NW_004517068.1	Scaffold2005	11821	TT	CC	1947026753
SNP_P4_171175_11968	NW_004517068.1	Scaffold2005	11968	CC	GG	1947026755
SNP_P4_171176_12707	NW_004517068.1	Scaffold2005	12707	TT	AA	1947026757
SNP_P4_171177_12947	NW_004517068.1	Scaffold2005	12947	TT	CC	1947026759
SNP_P4_171178_13036	NW_004517068.1	Scaffold2005	13036	TT	CC	1947026761
SNP_P4_171180_21693	NW_004517068.1	Scaffold2005	21693	TT	CC	1947026763
SNP_P4_171181_21955	NW_004517068.1	Scaffold2005	21955	TT	CC	1947026765
SNP_P4_171182_22141	NW_004517068.1	Scaffold2005	22141	TT	AA	1947026767
SNP_P4_171183_24923	NW_004517068.1	Scaffold2005	24923	GG	AA	1947026769
SNP_P4_171184_25260	NW_004517068.1	Scaffold2005	25260	TT	GG	1947026772
SNP_P4_171185_25600	NW_004517068.1	Scaffold2005	25600	AA	GG	1947026774
SNP_P4_171186_31399	NW_004517068.1	Scaffold2005	31399	AA	GG	1947026776
SNP_P4_171187_31501	NW_004517068.1	Scaffold2005	31501	TT	CC	1947026778
SNP_P4_171189_32384	NW_004517068.1	Scaffold2005	32384	TT	CC	1947026780
SNP_P4_171191_32421	NW_004517068.1	Scaffold2005	32421	AA	GG	1947026783
SNP_P4_171192_32669	NW_004517068.1	Scaffold2005	32669	GG	AA	1947026785
SNP_P4_171193_33662	NW_004517068.1	Scaffold2005	33662	AA	TT	1947026787
SNP_P4_171194_33713	NW_004517068.1	Scaffold2005	33713	CC	TT	1947026789
SNP_P4_171195_33718	NW_004517068.1	Scaffold2005	33718	TT	GG	1947026791
SNP_P4_171196_34053	NW_004517068.1	Scaffold2005	34053	AA	GG	1947026793
SNP_P4_171197_1158	NW_004517069.1	Scaffold2006	1158	CC	TT	1947026795
SNP_P4_171198_1194	NW_004517069.1	Scaffold2006	1194	AA	TT	1947026797
SNP_P4_171199_1201	NW_004517069.1	Scaffold2006	1201	CC	TT	1947026799
SNP_P4_171200_1219	NW_004517069.1	Scaffold2006	1219	TT	CC	1947026801
SNP_P4_171201_1269	NW_004517069.1	Scaffold2006	1269	CC	GG	1947026803
SNP_P4_171202_1295	NW_004517069.1	Scaffold2006	1295	CC	TT	1947026805
SNP_P4_171203_2897	NW_004517072.1	Scaffold2010	2897	AA	TT	1947026807
SNP_P4_171204_2916	NW_004517072.1	Scaffold2010	2916	AA	GG	1947026809
SNP_P4_171205_3345	NW_004517072.1	Scaffold2010	3345	GG	TT	1947026812
SNP_P4_171206_3505	NW_004517072.1	Scaffold2010	3505	AA	GG	1947026814
SNP_P4_171207_3525	NW_004517072.1	Scaffold2010	3525	CC	TT	1947026816
SNP_P4_171209_3696	NW_004517072.1	Scaffold2010	3696	TT	GG	1947026818
SNP_P4_171210_3711	NW_004517072.1	Scaffold2010	3711	AA	TT	1947026820
SNP_P4_171211_3715	NW_004517072.1	Scaffold2010	3715	GG	AA	1947026822
SNP_P4_171212_3748	NW_004517072.1	Scaffold2010	3748	TT	AA	1947026824
SNP_P4_171213_3755	NW_004517072.1	Scaffold2010	3755	GG	AA	1947026826

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_171214_3765	NW_004517072.1	Scaffold2010	3765	CC	TT	1947026828
SNP_P4_171215_3766	NW_004517072.1	Scaffold2010	3766	TT	AA	1947026830
SNP_P4_171216_3768	NW_004517072.1	Scaffold2010	3768	TT	CC	1947026832
SNP_P4_171217_3769	NW_004517072.1	Scaffold2010	3769	TT	AA	1947026834
SNP_P4_171218_3771	NW_004517072.1	Scaffold2010	3771	AA	CC	1947026837
SNP_P4_171219_3772	NW_004517072.1	Scaffold2010	3772	CC	TT	1947026839
SNP_P4_171220_3776	NW_004517072.1	Scaffold2010	3776	AA	GG	1947026841
SNP_P4_171221_3798	NW_004517072.1	Scaffold2010	3798	TT	AA	1947026843
SNP_P4_171222_3803	NW_004517072.1	Scaffold2010	3803	GG	AA	1947026845
SNP_P4_171223_5493	NW_004517072.1	Scaffold2010	5493	GG	TT	1947026847
SNP_P4_171224_5819	NW_004517072.1	Scaffold2010	5819	CC	AA	1947026849
SNP_P4_171225_6079	NW_004517072.1	Scaffold2010	6079	AA	GG	1947026851
SNP_P4_171226_6403	NW_004517072.1	Scaffold2010	6403	GG	AA	1947026853
SNP_P4_171227_6507	NW_004517072.1	Scaffold2010	6507	AA	CC	1947026855
SNP_P4_171228_6544	NW_004517072.1	Scaffold2010	6544	GG	AA	1947026857
SNP_P4_171230_6879	NW_004517072.1	Scaffold2010	6879	CC	AA	1947026859
SNP_P4_171231_6917	NW_004517072.1	Scaffold2010	6917	CC	TT	1947026861
SNP_P4_171232_7016	NW_004517072.1	Scaffold2010	7016	TT	GG	1947026863
SNP_P4_171233_7254	NW_004517072.1	Scaffold2010	7254	TT	CC	1947026865
SNP_P4_171234_7484	NW_004517072.1	Scaffold2010	7484	GG	AA	1947026867
SNP_P4_171235_7532	NW_004517072.1	Scaffold2010	7532	CC	AA	1947026869
SNP_P4_171237_8148	NW_004517072.1	Scaffold2010	8148	CC	TT	1947026871
SNP_P4_171238_8235	NW_004517072.1	Scaffold2010	8235	TT	CC	1947026874
SNP_P4_171239_8336	NW_004517072.1	Scaffold2010	8336	AA	GG	1947026876
SNP_P4_171240_8348	NW_004517072.1	Scaffold2010	8348	TT	CC	1947026878
SNP_P4_171241_10312	NW_004517072.1	Scaffold2010	10312	AA	GG	1947026880
SNP_P4_171242_1589	NW_004517078.1	Scaffold2017	1589	AA	GG	1947026882
SNP_P4_171243_1708	NW_004517078.1	Scaffold2017	1708	GG	TT	1947026884
SNP_P4_171244_1719	NW_004517078.1	Scaffold2017	1719	TT	GG	1947026886
SNP_P4_171245_1895	NW_004517078.1	Scaffold2017	1895	CC	TT	1947026888
SNP_P4_171246_1916	NW_004517078.1	Scaffold2017	1916	GG	TT	1947026890
SNP_P4_171247_1156	NW_004517079.1	Scaffold2018	1156	CC	AA	1947026892
SNP_P4_171248_2359	NW_004517079.1	Scaffold2018	2359	CC	TT	1947026894
SNP_P4_171249_2520	NW_004517079.1	Scaffold2018	2520	AA	GG	1947026896
SNP_P4_171250_2650	NW_004517079.1	Scaffold2018	2650	GG	AA	1947026898
SNP_P4_171251_4172	NW_004517079.1	Scaffold2018	4172	AA	GG	1947026900
SNP_P4_171253_5396	NW_004517079.1	Scaffold2018	5396	CC	TT	1947026902
SNP_P4_171254_5538	NW_004517079.1	Scaffold2018	5538	TT	AA	1947026904
SNP_P4_171255_6384	NW_004517079.1	Scaffold2018	6384	CC	TT	1947026906
SNP_P4_171256_13979	NW_004517079.1	Scaffold2018	13979	TT	AA	1947026908
SNP_P4_171257_14907	NW_004517079.1	Scaffold2018	14907	TT	GG	1947026910
SNP_P4_171259_18262	NW_004517079.1	Scaffold2018	18262	TT	CC	1947026912

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_171260_18723	NW_004517079.1	Scaffold2018	18723	AA	TT	1947026914
SNP_P4_171261_19823	NW_004517079.1	Scaffold2018	19823	AA	GG	1947026916
SNP_P4_171262_20572	NW_004517079.1	Scaffold2018	20572	CC	TT	1947026918
SNP_P4_171263_20993	NW_004517079.1	Scaffold2018	20993	GG	AA	1947026920
SNP_P4_171264_21454	NW_004517079.1	Scaffold2018	21454	CC	AA	1947026922
SNP_P4_171265_21455	NW_004517079.1	Scaffold2018	21455	TT	CC	1947026924
SNP_P4_171266_21997	NW_004517079.1	Scaffold2018	21997	AA	TT	1947026926
SNP_P4_171267_23357	NW_004517079.1	Scaffold2018	23357	CC	AA	1947026928
SNP_P4_171269_25652	NW_004517079.1	Scaffold2018	25652	CC	TT	1947026930
SNP_P4_171270_26430	NW_004517079.1	Scaffold2018	26430	GG	AA	1947026932
SNP_P4_171271_27539	NW_004517079.1	Scaffold2018	27539	CC	TT	1947026934
SNP_P4_171272_27551	NW_004517079.1	Scaffold2018	27551	GG	AA	1947026936
SNP_P4_171274_27584	NW_004517079.1	Scaffold2018	27584	CC	GG	1947026939
SNP_P4_171275_27587	NW_004517079.1	Scaffold2018	27587	AA	GG	1947026941
SNP_P4_171276_27749	NW_004517079.1	Scaffold2018	27749	TT	CC	1947026943
SNP_P4_171277_27752	NW_004517079.1	Scaffold2018	27752	GG	CC	1947026945
SNP_P4_171278_27816	NW_004517079.1	Scaffold2018	27816	TT	CC	1947026947
SNP_P4_171280_28388	NW_004517079.1	Scaffold2018	28388	GG	TT	1947026949
SNP_P4_171281_28488	NW_004517079.1	Scaffold2018	28488	AA	TT	1947026951
SNP_P4_171282_28571	NW_004517079.1	Scaffold2018	28571	GG	TT	1947026953
SNP_P4_171283_28607	NW_004517079.1	Scaffold2018	28607	TT	CC	1947026955
SNP_P4_171284_6383	NW_004517080.1	Scaffold2020	6383	AA	TT	1947026957
SNP_P4_171285_6391	NW_004517080.1	Scaffold2020	6391	TT	CC	1947026959
SNP_P4_171286_6913	NW_004517080.1	Scaffold2020	6913	AA	GG	1947026961
SNP_P4_171287_6944	NW_004517080.1	Scaffold2020	6944	TT	AA	1947026963
SNP_P4_171288_7073	NW_004517080.1	Scaffold2020	7073	TT	CC	1947026965
SNP_P4_171289_7347	NW_004517080.1	Scaffold2020	7347	CC	TT	1947026967
SNP_P4_171290_7375	NW_004517080.1	Scaffold2020	7375	GG	AA	1947026969
SNP_P4_171291_7383	NW_004517080.1	Scaffold2020	7383	TT	AA	1947026971
SNP_P4_171292_7409	NW_004517080.1	Scaffold2020	7409	TT	CC	1947026973
SNP_P4_171293_7416	NW_004517080.1	Scaffold2020	7416	GG	AA	1947026975
SNP_P4_171294_7459	NW_004517080.1	Scaffold2020	7459	CC	AA	1947026977
SNP_P4_171295_7495	NW_004517080.1	Scaffold2020	7495	GG	TT	1947026980
SNP_P4_171297_7507	NW_004517080.1	Scaffold2020	7507	CC	GG	1947026982
SNP_P4_171298_7565	NW_004517080.1	Scaffold2020	7565	AA	CC	1947026984
SNP_P4_171299_7579	NW_004517080.1	Scaffold2020	7579	CC	TT	1947026986
SNP_P4_171300_7582	NW_004517080.1	Scaffold2020	7582	TT	AA	1947026988
SNP_P4_171301_7616	NW_004517080.1	Scaffold2020	7616	TT	GG	1947026990
SNP_P4_171302_7668	NW_004517080.1	Scaffold2020	7668	TT	CC	1947026992
SNP_P4_171303_7687	NW_004517080.1	Scaffold2020	7687	AA	GG	1947026994
SNP_P4_171304_7697	NW_004517080.1	Scaffold2020	7697	AA	CC	1947026996
SNP_P4_171305_7712	NW_004517080.1	Scaffold2020	7712	CC	TT	1947026998

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_171306_7714	NW_004517080.1	Scaffold2020	7714	GG	AA	1947027000
SNP_P4_171307_7839	NW_004517080.1	Scaffold2020	7839	AA	CC	1947027002
SNP_P4_171308_7859	NW_004517080.1	Scaffold2020	7859	CC	TT	1947027004
SNP_P4_171309_7863	NW_004517080.1	Scaffold2020	7863	TT	AA	1947027006
SNP_P4_171311_13265	NW_004517080.1	Scaffold2020	13265	AA	CC	1947027008
SNP_P4_171312_13266	NW_004517080.1	Scaffold2020	13266	AA	GG	1947027010
SNP_P4_171313_13523	NW_004517080.1	Scaffold2020	13523	TT	CC	1947027012
SNP_P4_171314_13584	NW_004517080.1	Scaffold2020	13584	TT	AA	1947027014
SNP_P4_171315_1399	NW_004517082.1	Scaffold2022	1399	CC	GG	1947027016
SNP_P4_171316_1477	NW_004517082.1	Scaffold2022	1477	AA	CC	1947027018
SNP_P4_171317_1480	NW_004517082.1	Scaffold2022	1480	AA	CC	1947027020
SNP_P4_171318_1491	NW_004517082.1	Scaffold2022	1491	AA	CC	1947027022
SNP_P4_171319_1719	NW_004517082.1	Scaffold2022	1719	CC	TT	1947027024
SNP_P4_171320_8447	NW_004517082.1	Scaffold2022	8447	TT	CC	1947027026
SNP_P4_171321_44162	NW_004517082.1	Scaffold2022	44162	AA	GG	1947027028
SNP_P4_171322_44165	NW_004517082.1	Scaffold2022	44165	TT	AA	1947027030
SNP_P4_171323_44166	NW_004517082.1	Scaffold2022	44166	AA	TT	1947027032
SNP_P4_171324_44197	NW_004517082.1	Scaffold2022	44197	AA	GG	1947027035
SNP_P4_171325_50481	NW_004517082.1	Scaffold2022	50481	TT	CC	1947027037
SNP_P4_171326_50514	NW_004517082.1	Scaffold2022	50514	AA	GG	1947027039
SNP_P4_171327_79664	NW_004517082.1	Scaffold2022	79664	AA	TT	1947027041
SNP_P4_171329_83040	NW_004517082.1	Scaffold2022	83040	AA	GG	1947027043
SNP_P4_171330_83090	NW_004517082.1	Scaffold2022	83090	CC	TT	1947027045
SNP_P4_171331_83111	NW_004517082.1	Scaffold2022	83111	TT	CC	1947027047
SNP_P4_171332_110161	NW_004517082.1	Scaffold2022	110161	TT	CC	1947027049
SNP_P4_171333_110460	NW_004517082.1	Scaffold2022	110460	GG	AA	1947027051
SNP_P4_171334_110526	NW_004517082.1	Scaffold2022	110526	CC	TT	1947027053
SNP_P4_171335_110529	NW_004517082.1	Scaffold2022	110529	TT	CC	1947027055
SNP_P4_171336_110764	NW_004517082.1	Scaffold2022	110764	TT	AA	1947027057
SNP_P4_171337_110790	NW_004517082.1	Scaffold2022	110790	AA	GG	1947027059
SNP_P4_171338_110823	NW_004517082.1	Scaffold2022	110823	TT	CC	1947027061
SNP_P4_171339_113421	NW_004517082.1	Scaffold2022	113421	AA	GG	1947027063
SNP_P4_171340_115189	NW_004517082.1	Scaffold2022	115189	TT	CC	1947027065
SNP_P4_171341_115206	NW_004517082.1	Scaffold2022	115206	AA	GG	1947027067
SNP_P4_171343_115305	NW_004517082.1	Scaffold2022	115305	CC	TT	1947027069
SNP_P4_171344_115840	NW_004517082.1	Scaffold2022	115840	TT	AA	1947027071
SNP_P4_171345_116269	NW_004517082.1	Scaffold2022	116269	AA	CC	1947027073
SNP_P4_171346_116372	NW_004517082.1	Scaffold2022	116372	AA	CC	1947027075
SNP_P4_171347_130443	NW_004517082.1	Scaffold2022	130443	GG	AA	1947027077
SNP_P4_171348_132693	NW_004517082.1	Scaffold2022	132693	CC	TT	1947027079
SNP_P4_171349_136212	NW_004517082.1	Scaffold2022	136212	GG	AA	1947027081
SNP_P4_171350_136215	NW_004517082.1	Scaffold2022	136215	CC	TT	1947027083

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_171351_136221	NW_004517082.1	Scaffold2022	136221	CC	AA	1947027085
SNP_P4_171352_136299	NW_004517082.1	Scaffold2022	136299	GG	AA	1947027087
SNP_P4_171353_136403	NW_004517082.1	Scaffold2022	136403	AA	GG	1947027089
SNP_P4_171354_136522	NW_004517082.1	Scaffold2022	136522	TT	CC	1947027091
SNP_P4_171355_136540	NW_004517082.1	Scaffold2022	136540	AA	GG	1947027093
SNP_P4_171356_136640	NW_004517082.1	Scaffold2022	136640	AA	GG	1947027096
SNP_P4_171357_136756	NW_004517082.1	Scaffold2022	136756	CC	TT	1947027098
SNP_P4_171358_136765	NW_004517082.1	Scaffold2022	136765	TT	GG	1947027100
SNP_P4_171359_136772	NW_004517082.1	Scaffold2022	136772	TT	CC	1947027102
SNP_P4_171360_136798	NW_004517082.1	Scaffold2022	136798	CC	TT	1947027104
SNP_P4_171361_136873	NW_004517082.1	Scaffold2022	136873	CC	TT	1947027106
SNP_P4_171362_136888	NW_004517082.1	Scaffold2022	136888	TT	CC	1947027108
SNP_P4_171364_139007	NW_004517082.1	Scaffold2022	139007	TT	CC	1947027110
SNP_P4_171365_139032	NW_004517082.1	Scaffold2022	139032	TT	CC	1947027112
SNP_P4_171366_139045	NW_004517082.1	Scaffold2022	139045	CC	TT	1947027114
SNP_P4_171367_139059	NW_004517082.1	Scaffold2022	139059	AA	GG	1947027116
SNP_P4_171368_139205	NW_004517082.1	Scaffold2022	139205	AA	GG	1947027118
SNP_P4_171369_139235	NW_004517082.1	Scaffold2022	139235	AA	TT	1947027120
SNP_P4_171370_139265	NW_004517082.1	Scaffold2022	139265	TT	CC	1947027122
SNP_P4_171371_139308	NW_004517082.1	Scaffold2022	139308	CC	AA	1947027124
SNP_P4_171372_140763	NW_004517082.1	Scaffold2022	140763	AA	TT	1947027126
SNP_P4_171373_141057	NW_004517082.1	Scaffold2022	141057	TT	CC	1947027128
SNP_P4_171374_141063	NW_004517082.1	Scaffold2022	141063	AA	GG	1947027130
SNP_P4_171375_155561	NW_004517082.1	Scaffold2022	155561	CC	AA	1947027133
SNP_P4_171376_155636	NW_004517082.1	Scaffold2022	155636	TT	AA	1947027135
SNP_P4_171377_155654	NW_004517082.1	Scaffold2022	155654	GG	AA	1947027137
SNP_P4_171378_155873	NW_004517082.1	Scaffold2022	155873	TT	CC	1947027139
SNP_P4_171379_156656	NW_004517082.1	Scaffold2022	156656	CC	TT	1947027141
SNP_P4_171380_156668	NW_004517082.1	Scaffold2022	156668	AA	GG	1947027143
SNP_P4_171382_9988	NW_004517083.1	Scaffold2023	9988	CC	TT	1947027145
SNP_P4_171383_12160	NW_004517083.1	Scaffold2023	12160	AA	GG	1947027147
SNP_P4_171384_98	NW_004517084.1	Scaffold2024	98	TT	CC	1947027149
SNP_P4_171385_434	NW_004517084.1	Scaffold2024	434	CC	TT	1947027151
SNP_P4_171386_1597	NW_004517084.1	Scaffold2024	1597	GG	AA	1947027153
SNP_P4_171387_1623	NW_004517084.1	Scaffold2024	1623	GG	AA	1947027155
SNP_P4_171388_1669	NW_004517084.1	Scaffold2024	1669	AA	GG	1947027157
SNP_P4_171389_1889	NW_004517084.1	Scaffold2024	1889	GG	TT	1947027159
SNP_P4_171390_1908	NW_004517084.1	Scaffold2024	1908	TT	CC	1947027161
SNP_P4_171392_1987	NW_004517084.1	Scaffold2024	1987	TT	CC	1947027163
SNP_P4_171393_2050	NW_004517084.1	Scaffold2024	2050	GG	TT	1947027165
SNP_P4_171394_2070	NW_004517084.1	Scaffold2024	2070	AA	CC	1947027167
SNP_P4_171395_2144	NW_004517084.1	Scaffold2024	2144	CC	TT	1947027169

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_171396_2218	NW_004517084.1	Scaffold2024	2218	GG	TT	1947027172
SNP_P4_171397_2246	NW_004517084.1	Scaffold2024	2246	TT	GG	1947027174
SNP_P4_171398_2285	NW_004517084.1	Scaffold2024	2285	AA	TT	1947027176
SNP_P4_171399_2301	NW_004517084.1	Scaffold2024	2301	TT	CC	1947027178
SNP_P4_171400_3715	NW_004517084.1	Scaffold2024	3715	AA	TT	1947027180
SNP_P4_171401_3894	NW_004517084.1	Scaffold2024	3894	AA	GG	1947027182
SNP_P4_171402_4000	NW_004517084.1	Scaffold2024	4000	CC	TT	1947027184
SNP_P4_171403_4213	NW_004517084.1	Scaffold2024	4213	TT	GG	1947027186
SNP_P4_171404_4757	NW_004517084.1	Scaffold2024	4757	CC	AA	1947027188
SNP_P4_171405_4815	NW_004517084.1	Scaffold2024	4815	CC	GG	1947027190
SNP_P4_171406_1879	NW_004517086.1	Scaffold2026	1879	AA	GG	1947027192
SNP_P4_171407_1889	NW_004517086.1	Scaffold2026	1889	AA	GG	1947027194
SNP_P4_171408_2095	NW_004517086.1	Scaffold2026	2095	TT	CC	1947027196
SNP_P4_171409_2098	NW_004517086.1	Scaffold2026	2098	TT	GG	1947027198
SNP_P4_171410_4431	NW_004517086.1	Scaffold2026	4431	TT	CC	1947027200
SNP_P4_171411_4432	NW_004517086.1	Scaffold2026	4432	TT	AA	1947027202
SNP_P4_171412_4463	NW_004517086.1	Scaffold2026	4463	GG	AA	1947027204
SNP_P4_171413_4466	NW_004517086.1	Scaffold2026	4466	TT	CC	1947027206
SNP_P4_171414_4485	NW_004517086.1	Scaffold2026	4485	AA	GG	1947027208
SNP_P4_171415_4491	NW_004517086.1	Scaffold2026	4491	GG	AA	1947027210
SNP_P4_171416_5188	NW_004517086.1	Scaffold2026	5188	AA	CC	1947027211
SNP_P4_171417_5192	NW_004517086.1	Scaffold2026	5192	AA	GG	1947027212
SNP_P4_171418_452	NW_004517087.1	Scaffold2027	452	GG	TT	1947027213
SNP_P4_171419_711	NW_004517087.1	Scaffold2027	711	TT	AA	1947027215
SNP_P4_171421_2687	NW_004517087.1	Scaffold2027	2687	AA	GG	1947027217
SNP_P4_171422_2854	NW_004517087.1	Scaffold2027	2854	AA	TT	1947027219
SNP_P4_171423_3025	NW_004517087.1	Scaffold2027	3025	GG	AA	1947027221
SNP_P4_171424_25053	NW_004517087.1	Scaffold2027	25053	CC	TT	1947027223
SNP_P4_171425_54117	NW_004517087.1	Scaffold2027	54117	GG	TT	1947027225
SNP_P4_171426_54597	NW_004517087.1	Scaffold2027	54597	CC	GG	1947027227
SNP_P4_171427_55589	NW_004517087.1	Scaffold2027	55589	TT	GG	1947027229
SNP_P4_171428_55625	NW_004517087.1	Scaffold2027	55625	AA	GG	1947027231
SNP_P4_171429_55815	NW_004517087.1	Scaffold2027	55815	TT	CC	1947027233
SNP_P4_171430_55837	NW_004517087.1	Scaffold2027	55837	CC	GG	1947027235
SNP_P4_171431_56181	NW_004517087.1	Scaffold2027	56181	AA	GG	1947027237
SNP_P4_171432_56186	NW_004517087.1	Scaffold2027	56186	AA	GG	1947027239
SNP_P4_171433_56276	NW_004517087.1	Scaffold2027	56276	TT	AA	1947027241
SNP_P4_171434_56301	NW_004517087.1	Scaffold2027	56301	AA	TT	1947027243
SNP_P4_171435_56310	NW_004517087.1	Scaffold2027	56310	CC	TT	1947027245
SNP_P4_171436_56312	NW_004517087.1	Scaffold2027	56312	TT	GG	1947027247
SNP_P4_171437_59569	NW_004517087.1	Scaffold2027	59569	AA	TT	1947027249
SNP_P4_171438_59608	NW_004517087.1	Scaffold2027	59608	TT	CC	1947027251

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_171439_74765	NW_004517087.1	Scaffold2027	74765	TT	GG	1947027253
SNP_P4_171440_74775	NW_004517087.1	Scaffold2027	74775	CC	TT	1947027255
SNP_P4_171441_119278	NW_004517087.1	Scaffold2027	119278	TT	CC	1947027257
SNP_P4_171442_119346	NW_004517087.1	Scaffold2027	119346	GG	AA	1947027259
SNP_P4_171443_119641	NW_004517087.1	Scaffold2027	119641	AA	TT	1947027261
SNP_P4_171444_119721	NW_004517087.1	Scaffold2027	119721	GG	AA	1947027263
SNP_P4_171445_125523	NW_004517087.1	Scaffold2027	125523	TT	AA	1947027265
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SNP_P4_171448_128912	NW_004517087.1	Scaffold2027	128912	CC	AA	1947027269
SNP_P4_171449_129201	NW_004517087.1	Scaffold2027	129201	CC	TT	1947027271
SNP_P4_171450_129255	NW_004517087.1	Scaffold2027	129255	AA	CC	1947027273
SNP_P4_171451_141827	NW_004517087.1	Scaffold2027	141827	AA	GG	1947027275
SNP_P4_171452_141839	NW_004517087.1	Scaffold2027	141839	AA	GG	1947027277
SNP_P4_171453_160211	NW_004517087.1	Scaffold2027	160211	TT	CC	1947027279
SNP_P4_171454_160654	NW_004517087.1	Scaffold2027	160654	AA	GG	1947027281
SNP_P4_171455_65	NW_004517089.1	Scaffold2029	65	TT	AA	1947027283
SNP_P4_171456_43	NW_004517090.1	Scaffold2030	43	GG	TT	1947027285
SNP_P4_171457_64	NW_004517090.1	Scaffold2030	64	GG	TT	1947027287
SNP_P4_171458_69	NW_004517090.1	Scaffold2030	69	TT	GG	1947027289
SNP_P4_171459_85	NW_004517090.1	Scaffold2030	85	TT	GG	1947027291
SNP_P4_171460_468	NW_004517090.1	Scaffold2030	468	AA	GG	1947027294
SNP_P4_171461_470	NW_004517090.1	Scaffold2030	470	GG	TT	1947027296
SNP_P4_171462_3391	NW_004517090.1	Scaffold2030	3391	TT	GG	1947027298
SNP_P4_171463_3425	NW_004517090.1	Scaffold2030	3425	TT	CC	1947027300
SNP_P4_171464_3572	NW_004517090.1	Scaffold2030	3572	AA	TT	1947027302
SNP_P4_171465_3761	NW_004517090.1	Scaffold2030	3761	GG	AA	1947027304
SNP_P4_171466_4233	NW_004517090.1	Scaffold2030	4233	TT	GG	1947027306
SNP_P4_171467_4574	NW_004517090.1	Scaffold2030	4574	GG	CC	1947027308
SNP_P4_171469_4609	NW_004517090.1	Scaffold2030	4609	AA	GG	1947027310
SNP_P4_171470_8884	NW_004517090.1	Scaffold2030	8884	GG	AA	1947027312
SNP_P4_171471_9181	NW_004517090.1	Scaffold2030	9181	AA	GG	1947027314
SNP_P4_171472_9200	NW_004517090.1	Scaffold2030	9200	CC	AA	1947027316
SNP_P4_171473_9208	NW_004517090.1	Scaffold2030	9208	AA	CC	1947027318
SNP_P4_171474_1363	NW_004517092.1	Scaffold2033	1363	AA	TT	1947027320
SNP_P4_171475_1366	NW_004517092.1	Scaffold2033	1366	TT	GG	1947027322
SNP_P4_171477_19598	NW_004517092.1	Scaffold2033	19598	AA	GG	1947027324
SNP_P4_171478_21063	NW_004517092.1	Scaffold2033	21063	TT	CC	1947027326
SNP_P4_171480_52417	NW_004517092.1	Scaffold2033	52417	GG	AA	1947027328
SNP_P4_171481_55746	NW_004517092.1	Scaffold2033	55746	TT	CC	1947027330
SNP_P4_171482_66311	NW_004517092.1	Scaffold2033	66311	GG	AA	1947027332
SNP_P4_171483_66315	NW_004517092.1	Scaffold2033	66315	AA	GG	1947027334
SNP_P4_171484_66321	NW_004517092.1	Scaffold2033	66321	GG	AA	1947027336

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_171486_66380	NW_004517092.1	Scaffold2033	66380	CC	TT	1947027340
SNP_P4_171487_66429	NW_004517092.1	Scaffold2033	66429	AA	TT	1947027343
SNP_P4_171488_66446	NW_004517092.1	Scaffold2033	66446	GG	AA	1947027345
SNP_P4_171489_66457	NW_004517092.1	Scaffold2033	66457	TT	AA	1947027347
SNP_P4_171491_66629	NW_004517092.1	Scaffold2033	66629	AA	CC	1947027349
SNP_P4_171492_89482	NW_004517092.1	Scaffold2033	89482	AA	CC	1947027351
SNP_P4_171494_165018	NW_004517092.1	Scaffold2033	165018	CC	TT	1947027353
SNP_P4_171495_165029	NW_004517092.1	Scaffold2033	165029	TT	AA	1947027355
SNP_P4_171496_165045	NW_004517092.1	Scaffold2033	165045	CC	TT	1947027357
SNP_P4_171497_165382	NW_004517092.1	Scaffold2033	165382	CC	GG	1947027359
SNP_P4_171498_165495	NW_004517092.1	Scaffold2033	165495	GG	TT	1947027361
SNP_P4_171499_170625	NW_004517092.1	Scaffold2033	170625	GG	TT	1947027363
SNP_P4_171500_178436	NW_004517092.1	Scaffold2033	178436	CC	TT	1947027365
SNP_P4_171502_182501	NW_004517092.1	Scaffold2033	182501	TT	CC	1947027367
SNP_P4_171503_183740	NW_004517092.1	Scaffold2033	183740	GG	AA	1947027369
SNP_P4_171505_183921	NW_004517092.1	Scaffold2033	183921	GG	AA	1947027371
SNP_P4_171506_183929	NW_004517092.1	Scaffold2033	183929	TT	AA	1947027373
SNP_P4_171507_183963	NW_004517092.1	Scaffold2033	183963	GG	TT	1947027375
SNP_P4_171508_184007	NW_004517092.1	Scaffold2033	184007	GG	AA	1947027378
SNP_P4_171509_184160	NW_004517092.1	Scaffold2033	184160	AA	TT	1947027380
SNP_P4_171510_184231	NW_004517092.1	Scaffold2033	184231	AA	GG	1947027382
SNP_P4_171511_184279	NW_004517092.1	Scaffold2033	184279	AA	GG	1947027384
SNP_P4_171512_184280	NW_004517092.1	Scaffold2033	184280	AA	GG	1947027386
SNP_P4_171513_184304	NW_004517092.1	Scaffold2033	184304	CC	GG	1947027388
SNP_P4_171514_184338	NW_004517092.1	Scaffold2033	184338	TT	GG	1947027390
SNP_P4_171515_184376	NW_004517092.1	Scaffold2033	184376	AA	TT	1947027392
SNP_P4_171516_185819	NW_004517092.1	Scaffold2033	185819	TT	GG	1947027394
SNP_P4_171517_185821	NW_004517092.1	Scaffold2033	185821	TT	CC	1947027396
SNP_P4_171518_8632	NW_004517095.1	Scaffold2036	8632	TT	CC	1947027398
SNP_P4_171519_8638	NW_004517095.1	Scaffold2036	8638	AA	GG	1947027400
SNP_P4_171520_8947	NW_004517095.1	Scaffold2036	8947	GG	AA	1947027402
SNP_P4_171521_9168	NW_004517095.1	Scaffold2036	9168	CC	AA	1947027404
SNP_P4_171522_9177	NW_004517095.1	Scaffold2036	9177	AA	GG	1947027406
SNP_P4_171523_14791	NW_004517095.1	Scaffold2036	14791	CC	TT	1947027408
SNP_P4_171524_14826	NW_004517095.1	Scaffold2036	14826	GG	AA	1947027410
SNP_P4_171525_14938	NW_004517095.1	Scaffold2036	14938	CC	TT	1947027412
SNP_P4_171526_15087	NW_004517095.1	Scaffold2036	15087	CC	GG	1947027414
SNP_P4_171527_15095	NW_004517095.1	Scaffold2036	15095	CC	TT	1947027417
SNP_P4_171528_35514	NW_004517095.1	Scaffold2036	35514	CC	TT	1947027419
SNP_P4_171529_43919	NW_004517095.1	Scaffold2036	43919	GG	TT	1947027421
SNP_P4_171530_47785	NW_004517095.1	Scaffold2036	47785	GG	AA	1947027423

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_171532_47984	NW_004517095.1	Scaffold2036	47984	GG	AA	1947027427
SNP_P4_171533_47987	NW_004517095.1	Scaffold2036	47987	GG	CC	1947027429
SNP_P4_171534_47988	NW_004517095.1	Scaffold2036	47988	CC	AA	1947027431
SNP_P4_171535_48006	NW_004517095.1	Scaffold2036	48006	AA	GG	1947027433
SNP_P4_171536_48018	NW_004517095.1	Scaffold2036	48018	AA	GG	1947027435
SNP_P4_171537_48047	NW_004517095.1	Scaffold2036	48047	TT	CC	1947027437
SNP_P4_171538_48057	NW_004517095.1	Scaffold2036	48057	AA	GG	1947027439
SNP_P4_171539_48069	NW_004517095.1	Scaffold2036	48069	GG	AA	1947027441
SNP_P4_171540_48090	NW_004517095.1	Scaffold2036	48090	GG	AA	1947027444
SNP_P4_171541_48113	NW_004517095.1	Scaffold2036	48113	GG	AA	1947027446
SNP_P4_171542_48117	NW_004517095.1	Scaffold2036	48117	GG	AA	1947027448
SNP_P4_171543_57535	NW_004517095.1	Scaffold2036	57535	GG	CC	1947027450
SNP_P4_171544_57639	NW_004517095.1	Scaffold2036	57639	AA	GG	1947027452
SNP_P4_171546_63349	NW_004517095.1	Scaffold2036	63349	AA	GG	1947027454
SNP_P4_171547_73024	NW_004517095.1	Scaffold2036	73024	CC	GG	1947027456
SNP_P4_171548_73197	NW_004517095.1	Scaffold2036	73197	AA	GG	1947027458
SNP_P4_171549_73257	NW_004517095.1	Scaffold2036	73257	GG	AA	1947027460
SNP_P4_171550_73266	NW_004517095.1	Scaffold2036	73266	CC	TT	1947027462
SNP_P4_171551_73364	NW_004517095.1	Scaffold2036	73364	CC	AA	1947027464
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SNP_P4_171554_73443	NW_004517095.1	Scaffold2036	73443	AA	TT	1947027470
SNP_P4_171555_73449	NW_004517095.1	Scaffold2036	73449	CC	AA	1947027472
SNP_P4_171556_73451	NW_004517095.1	Scaffold2036	73451	TT	CC	1947027474
SNP_P4_171557_73453	NW_004517095.1	Scaffold2036	73453	TT	GG	1947027476
SNP_P4_171558_73476	NW_004517095.1	Scaffold2036	73476	TT	CC	1947027479
SNP_P4_171559_73486	NW_004517095.1	Scaffold2036	73486	GG	AA	1947027481
SNP_P4_171560_126658	NW_004517095.1	Scaffold2036	126658	TT	AA	1947027483
SNP_P4_171561_157689	NW_004517095.1	Scaffold2036	157689	CC	TT	1947027485
SNP_P4_171562_157971	NW_004517095.1	Scaffold2036	157971	CC	TT	1947027487
SNP_P4_171563_158079	NW_004517095.1	Scaffold2036	158079	AA	CC	1947027489
SNP_P4_171564_158112	NW_004517095.1	Scaffold2036	158112	TT	CC	1947027491
SNP_P4_171565_175711	NW_004517095.1	Scaffold2036	175711	CC	TT	1947027493
SNP_P4_171566_241090	NW_004517095.1	Scaffold2036	241090	CC	TT	1947027495
SNP_P4_171567_1667	NW_004517096.1	Scaffold2037	1667	AA	TT	1947027497
SNP_P4_171568_7533	NW_004517096.1	Scaffold2037	7533	TT	CC	1947027499
SNP_P4_171569_7535	NW_004517096.1	Scaffold2037	7535	CC	TT	1947027501
SNP_P4_171570_7540	NW_004517096.1	Scaffold2037	7540	AA	GG	1947027503
SNP_P4_171571_7543	NW_004517096.1	Scaffold2037	7543	TT	AA	1947027505
SNP_P4_171572_8288	NW_004517096.1	Scaffold2037	8288	TT	CC	1947027507
SNP_P4_171573_8319	NW_004517096.1	Scaffold2037	8319	TT	GG	1947027509

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_171575_16376	NW_004517096.1	Scaffold2037	16376	AA	GG	1947027513
SNP_P4_171576_17049	NW_004517096.1	Scaffold2037	17049	AA	TT	1947027515
SNP_P4_171577_18139	NW_004517096.1	Scaffold2037	18139	TT	CC	1947027517
SNP_P4_171578_19492	NW_004517096.1	Scaffold2037	19492	AA	GG	1947027519
SNP_P4_171579_20326	NW_004517096.1	Scaffold2037	20326	CC	AA	1947027521
SNP_P4_171580_29897	NW_004517096.1	Scaffold2037	29897	AA	CC	1947027524
SNP_P4_171581_36623	NW_004517096.1	Scaffold2037	36623	CC	TT	1947027526
SNP_P4_171582_43744	NW_004517096.1	Scaffold2037	43744	CC	TT	1947027528
SNP_P4_171583_43745	NW_004517096.1	Scaffold2037	43745	CC	TT	1947027530
SNP_P4_171584_45799	NW_004517096.1	Scaffold2037	45799	CC	AA	1947027532
SNP_P4_171585_102	NW_004517097.1	Scaffold2039	102	GG	AA	1947027534
SNP_P4_171586_10121	NW_004517097.1	Scaffold2039	10121	GG	AA	1947027536
SNP_P4_171587_15696	NW_004517097.1	Scaffold2039	15696	AA	GG	1947027538
SNP_P4_171588_15725	NW_004517097.1	Scaffold2039	15725	AA	GG	1947027540
SNP_P4_171589_20670	NW_004517097.1	Scaffold2039	20670	AA	GG	1947027542
SNP_P4_171590_20692	NW_004517097.1	Scaffold2039	20692	AA	GG	1947027544
SNP_P4_171591_29875	NW_004517097.1	Scaffold2039	29875	CC	TT	1947027546
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SNP_P4_171594_84466	NW_004517097.1	Scaffold2039	84466	GG	AA	1947027552
SNP_P4_171595_97863	NW_004517097.1	Scaffold2039	97863	TT	CC	1947027554
SNP_P4_171596_115471	NW_004517097.1	Scaffold2039	115471	AA	GG	1947027556
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SNP_P4_171600_193917	NW_004517097.1	Scaffold2039	193917	CC	GG	1947027564
SNP_P4_171601_200770	NW_004517097.1	Scaffold2039	200770	AA	GG	1947027566
SNP_P4_171602_201777	NW_004517097.1	Scaffold2039	201777	GG	AA	1947027568
SNP_P4_171603_202371	NW_004517097.1	Scaffold2039	202371	AA	GG	1947027570
SNP_P4_171604_213057	NW_004517097.1	Scaffold2039	213057	TT	CC	1947027572
SNP_P4_171605_14467	NW_004517098.1	Scaffold2040	14467	GG	AA	1947027574
SNP_P4_171606_14504	NW_004517098.1	Scaffold2040	14504	GG	AA	1947027576
SNP_P4_171607_14515	NW_004517098.1	Scaffold2040	14515	AA	GG	1947027578
SNP_P4_171608_14906	NW_004517098.1	Scaffold2040	14906	AA	GG	1947027580
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SNP_P4_171611_20819	NW_004517098.1	Scaffold2040	20819	CC	TT	1947027586
SNP_P4_171612_24728	NW_004517098.1	Scaffold2040	24728	AA	GG	1947027588
SNP_P4_171613_35157	NW_004517098.1	Scaffold2040	35157	GG	AA	1947027590
SNP_P4_171614_35197	NW_004517098.1	Scaffold2040	35197	AA	GG	1947027592
SNP_P4_171615_35202	NW_004517098.1	Scaffold2040	35202	AA	CC	1947027594

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_171617_35255	NW_004517098.1	Scaffold2040	35255	GG	TT	1947027598
SNP_P4_171618_35361	NW_004517098.1	Scaffold2040	35361	TT	CC	1947027600
SNP_P4_171619_35611	NW_004517098.1	Scaffold2040	35611	CC	TT	1947027602
SNP_P4_171620_35681	NW_004517098.1	Scaffold2040	35681	AA	GG	1947027604
SNP_P4_171621_35723	NW_004517098.1	Scaffold2040	35723	AA	GG	1947027606
SNP_P4_171622_58973	NW_004517098.1	Scaffold2040	58973	TT	CC	1947027609
SNP_P4_171623_58974	NW_004517098.1	Scaffold2040	58974	TT	GG	1947027611
SNP_P4_171625_71437	NW_004517098.1	Scaffold2040	71437	AA	GG	1947027613
SNP_P4_171626_71481	NW_004517098.1	Scaffold2040	71481	AA	GG	1947027615
SNP_P4_171627_74704	NW_004517098.1	Scaffold2040	74704	AA	CC	1947027617
SNP_P4_171629_75581	NW_004517098.1	Scaffold2040	75581	CC	AA	1947027619
SNP_P4_171630_80205	NW_004517098.1	Scaffold2040	80205	AA	GG	1947027621
SNP_P4_171631_99420	NW_004517098.1	Scaffold2040	99420	GG	AA	1947027623
SNP_P4_171632_115498	NW_004517098.1	Scaffold2040	115498	TT	AA	1947027625
SNP_P4_171633_115655	NW_004517098.1	Scaffold2040	115655	GG	AA	1947027627
SNP_P4_171634_115839	NW_004517098.1	Scaffold2040	115839	GG	AA	1947027629
SNP_P4_171635_115844	NW_004517098.1	Scaffold2040	115844	TT	GG	1947027631
SNP_P4_171636_115916	NW_004517098.1	Scaffold2040	115916	TT	CC	1947027634
SNP_P4_171637_115950	NW_004517098.1	Scaffold2040	115950	CC	TT	1947027636
SNP_P4_171638_138283	NW_004517098.1	Scaffold2040	138283	GG	AA	1947027638
SNP_P4_171639_138652	NW_004517098.1	Scaffold2040	138652	TT	AA	1947027640
SNP_P4_171640_139085	NW_004517098.1	Scaffold2040	139085	CC	GG	1947027642
SNP_P4_171641_139754	NW_004517098.1	Scaffold2040	139754	AA	GG	1947027644
SNP_P4_171642_139755	NW_004517098.1	Scaffold2040	139755	AA	GG	1947027646
SNP_P4_171643_139776	NW_004517098.1	Scaffold2040	139776	AA	GG	1947027648
SNP_P4_171644_139897	NW_004517098.1	Scaffold2040	139897	GG	AA	1947027650
SNP_P4_171645_139902	NW_004517098.1	Scaffold2040	139902	AA	GG	1947027652
SNP_P4_171646_139927	NW_004517098.1	Scaffold2040	139927	CC	TT	1947027654
SNP_P4_171647_139945	NW_004517098.1	Scaffold2040	139945	TT	GG	1947027656
SNP_P4_171648_139996	NW_004517098.1	Scaffold2040	139996	CC	TT	1947027658
SNP_P4_171649_140004	NW_004517098.1	Scaffold2040	140004	AA	GG	1947027660
SNP_P4_171651_156958	NW_004517098.1	Scaffold2040	156958	TT	CC	1947027662
SNP_P4_171652_157681	NW_004517098.1	Scaffold2040	157681	CC	GG	1947027664
SNP_P4_171653_158157	NW_004517098.1	Scaffold2040	158157	TT	CC	1947027666
SNP_P4_171654_158180	NW_004517098.1	Scaffold2040	158180	GG	CC	1947027668
SNP_P4_171656_160013	NW_004517098.1	Scaffold2040	160013	TT	CC	1947027670
SNP_P4_171658_163528	NW_004517098.1	Scaffold2040	163528	CC	GG	1947027672
SNP_P4_171659_163896	NW_004517098.1	Scaffold2040	163896	AA	GG	1947027674
SNP_P4_171660_173283	NW_004517098.1	Scaffold2040	173283	TT	AA	1947027676
SNP_P4_171662_181076	NW_004517098.1	Scaffold2040	181076	CC	AA	1947027678
SNP_P4_171663_181087	NW_004517098.1	Scaffold2040	181087	AA	TT	1947027680

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_171664_198687	NW_004517098.1	Scaffold2040	198687	AA	GG	1947027682
SNP_P4_171665_199282	NW_004517098.1	Scaffold2040	199282	AA	GG	1947027684
SNP_P4_171666_199717	NW_004517098.1	Scaffold2040	199717	TT	CC	1947027686
SNP_P4_171667_200649	NW_004517098.1	Scaffold2040	200649	AA	GG	1947027688
SNP_P4_171668_203940	NW_004517098.1	Scaffold2040	203940	TT	CC	1947027690
SNP_P4_171669_211521	NW_004517098.1	Scaffold2040	211521	GG	TT	1947027692
SNP_P4_171670_212113	NW_004517098.1	Scaffold2040	212113	TT	AA	1947027694
SNP_P4_171671_212452	NW_004517098.1	Scaffold2040	212452	GG	AA	1947027696
SNP_P4_171672_212548	NW_004517098.1	Scaffold2040	212548	GG	CC	1947027698
SNP_P4_171673_212581	NW_004517098.1	Scaffold2040	212581	AA	CC	1947027700
SNP_P4_171674_212670	NW_004517098.1	Scaffold2040	212670	CC	GG	1947027702
SNP_P4_171675_212883	NW_004517098.1	Scaffold2040	212883	TT	CC	1947027704
SNP_P4_171676_212905	NW_004517098.1	Scaffold2040	212905	TT	GG	1947027706
SNP_P4_171677_212953	NW_004517098.1	Scaffold2040	212953	TT	AA	1947027708
SNP_P4_171679_243953	NW_004517098.1	Scaffold2040	243953	AA	TT	1947027710
SNP_P4_171680_243971	NW_004517098.1	Scaffold2040	243971	CC	GG	1947027712
SNP_P4_171681_244057	NW_004517098.1	Scaffold2040	244057	TT	CC	1947027714
SNP_P4_171682_244228	NW_004517098.1	Scaffold2040	244228	GG	AA	1947027716
SNP_P4_171683_413	NW_004517104.1	Scaffold2050	413	GG	CC	1947027718
SNP_P4_171684_481	NW_004517104.1	Scaffold2050	481	TT	CC	1947027720
SNP_P4_171685_10754	NW_004517104.1	Scaffold2050	10754	AA	GG	1947027722
SNP_P4_171686_15855	NW_004517104.1	Scaffold2050	15855	AA	GG	1947027724
SNP_P4_171687_15990	NW_004517104.1	Scaffold2050	15990	GG	AA	1947027726
SNP_P4_171688_16000	NW_004517104.1	Scaffold2050	16000	TT	CC	1947027728
SNP_P4_171689_16013	NW_004517104.1	Scaffold2050	16013	TT	CC	1947027730
SNP_P4_171690_6040	NW_004517105.1	Scaffold2051	6040	CC	TT	1947027732
SNP_P4_171691_6081	NW_004517105.1	Scaffold2051	6081	CC	TT	1947027734
SNP_P4_171692_6126	NW_004517105.1	Scaffold2051	6126	AA	TT	1947027736
SNP_P4_171693_6473	NW_004517105.1	Scaffold2051	6473	AA	GG	1947027738
SNP_P4_171694_6498	NW_004517105.1	Scaffold2051	6498	CC	AA	1947027740
SNP_P4_171695_11946	NW_004517105.1	Scaffold2051	11946	TT	GG	1947027742
SNP_P4_171696_12032	NW_004517105.1	Scaffold2051	12032	AA	TT	1947027744
SNP_P4_171697_12041	NW_004517105.1	Scaffold2051	12041	TT	CC	1947027746
SNP_P4_171698_12115	NW_004517105.1	Scaffold2051	12115	AA	CC	1947027748
SNP_P4_171699_12244	NW_004517105.1	Scaffold2051	12244	GG	AA	1947027750
SNP_P4_171700_12420	NW_004517105.1	Scaffold2051	12420	TT	CC	1947027752
SNP_P4_171701_14969	NW_004517105.1	Scaffold2051	14969	AA	TT	1947027754
SNP_P4_171702_15441	NW_004517105.1	Scaffold2051	15441	GG	CC	1947027829
SNP_P4_171703_21307	NW_004517105.1	Scaffold2051	21307	CC	AA	1947027831
SNP_P4_171704_24811	NW_004517105.1	Scaffold2051	24811	AA	GG	1947027834
SNP_P4_171705_24843	NW_004517105.1	Scaffold2051	24843	GG	TT	1947027836
SNP_P4_171706_25121	NW_004517105.1	Scaffold2051	25121	TT	CC	1947027838

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_171707_25122	NW_004517105.1	Scaffold2051	25122	AA	GG	1947027840
SNP_P4_171708_30752	NW_004517105.1	Scaffold2051	30752	AA	GG	1947027842
SNP_P4_171709_32165	NW_004517105.1	Scaffold2051	32165	TT	CC	1947027844
SNP_P4_171710_32531	NW_004517105.1	Scaffold2051	32531	AA	TT	1947027846
SNP_P4_171711_40590	NW_004517105.1	Scaffold2051	40590	TT	CC	1947027848
SNP_P4_171713_40629	NW_004517105.1	Scaffold2051	40629	CC	GG	1947027850
SNP_P4_171714_40645	NW_004517105.1	Scaffold2051	40645	TT	CC	1947027852
SNP_P4_171715_40656	NW_004517105.1	Scaffold2051	40656	TT	CC	1947027854
SNP_P4_171716_40679	NW_004517105.1	Scaffold2051	40679	GG	AA	1947027856
SNP_P4_171717_40759	NW_004517105.1	Scaffold2051	40759	TT	CC	1947027858
SNP_P4_171718_40787	NW_004517105.1	Scaffold2051	40787	AA	GG	1947027860
SNP_P4_171719_40789	NW_004517105.1	Scaffold2051	40789	TT	CC	1947027862
SNP_P4_171720_40800	NW_004517105.1	Scaffold2051	40800	AA	GG	1947027864
SNP_P4_171721_41062	NW_004517105.1	Scaffold2051	41062	TT	CC	1947027866
SNP_P4_171722_41103	NW_004517105.1	Scaffold2051	41103	AA	GG	1947027868
SNP_P4_171724_76251	NW_004517105.1	Scaffold2051	76251	AA	GG	1947027870
SNP_P4_171725_76266	NW_004517105.1	Scaffold2051	76266	GG	TT	1947027872
SNP_P4_171726_76268	NW_004517105.1	Scaffold2051	76268	GG	TT	1947027874
SNP_P4_171727_76344	NW_004517105.1	Scaffold2051	76344	GG	AA	1947027876
SNP_P4_171728_76346	NW_004517105.1	Scaffold2051	76346	TT	CC	1947027878
SNP_P4_171729_76357	NW_004517105.1	Scaffold2051	76357	CC	TT	1947027880
SNP_P4_171730_93408	NW_004517105.1	Scaffold2051	93408	TT	AA	1947027882
SNP_P4_171731_93485	NW_004517105.1	Scaffold2051	93485	TT	CC	1947027884
SNP_P4_171732_123115	NW_004517105.1	Scaffold2051	123115	AA	CC	1947027886
SNP_P4_171733_124514	NW_004517105.1	Scaffold2051	124514	TT	CC	1947027888
SNP_P4_171734_124525	NW_004517105.1	Scaffold2051	124525	AA	TT	1947027890
SNP_P4_171735_141730	NW_004517105.1	Scaffold2051	141730	CC	GG	1947027892
SNP_P4_171736_141753	NW_004517105.1	Scaffold2051	141753	CC	TT	1947027894
SNP_P4_171737_141768	NW_004517105.1	Scaffold2051	141768	GG	AA	1947027896
SNP_P4_171738_184229	NW_004517105.1	Scaffold2051	184229	TT	AA	1947027898
SNP_P4_171739_184574	NW_004517105.1	Scaffold2051	184574	AA	GG	1947027900
SNP_P4_171740_189079	NW_004517105.1	Scaffold2051	189079	AA	GG	1947027902
SNP_P4_171742_197276	NW_004517105.1	Scaffold2051	197276	AA	CC	1947027904
SNP_P4_171745_1860	NW_004517108.1	Scaffold2055	1860	AA	CC	1947027906
SNP_P4_171746_1939	NW_004517109.1	Scaffold2056	1939	AA	TT	1947027908
SNP_P4_171747_3457	NW_004517109.1	Scaffold2056	3457	GG	AA	1947027910
SNP_P4_171748_3472	NW_004517109.1	Scaffold2056	3472	CC	TT	1947027912
SNP_P4_171749_3479	NW_004517109.1	Scaffold2056	3479	TT	GG	1947027914
SNP_P4_171750_3729	NW_004517109.1	Scaffold2056	3729	AA	TT	1947027916
SNP_P4_171751_3730	NW_004517109.1	Scaffold2056	3730	CC	TT	1947027918
SNP_P4_171752_3757	NW_004517109.1	Scaffold2056	3757	TT	GG	1947027920
SNP_P4_171753_3779	NW_004517109.1	Scaffold2056	3779	AA	CC	1947027922

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_171754_7975	NW_004517109.1	Scaffold2056	7975	TT	CC	1947027924
SNP_P4_171755_4957	NW_004517111.1	Scaffold2062	4957	CC	GG	1947027926
SNP_P4_171756_4988	NW_004517111.1	Scaffold2062	4988	TT	AA	1947027928
SNP_P4_171757_5050	NW_004517111.1	Scaffold2062	5050	GG	TT	1947027930
SNP_P4_171758_1344	NW_004517113.1	Scaffold2064	1344	TT	CC	1947027932
SNP_P4_171759_1488	NW_004517113.1	Scaffold2064	1488	GG	AA	1947027934
SNP_P4_171760_1505	NW_004517113.1	Scaffold2064	1505	CC	AA	1947027936
SNP_P4_171761_1560	NW_004517113.1	Scaffold2064	1560	TT	AA	1947027938
SNP_P4_171762_1565	NW_004517113.1	Scaffold2064	1565	GG	TT	1947027940
SNP_P4_171763_1583	NW_004517113.1	Scaffold2064	1583	TT	GG	1947027943
SNP_P4_171764_1872	NW_004517113.1	Scaffold2064	1872	TT	GG	1947027945
SNP_P4_171765_2195	NW_004517113.1	Scaffold2064	2195	TT	CC	1947027947
SNP_P4_171766_7217	NW_004517113.1	Scaffold2064	7217	TT	CC	1947027949
SNP_P4_171767_7287	NW_004517113.1	Scaffold2064	7287	AA	GG	1947027951
SNP_P4_171768_7298	NW_004517113.1	Scaffold2064	7298	GG	AA	1947027953
SNP_P4_171769_7302	NW_004517113.1	Scaffold2064	7302	AA	CC	1947027955
SNP_P4_171770_7303	NW_004517113.1	Scaffold2064	7303	GG	AA	1947027957
SNP_P4_171771_7321	NW_004517113.1	Scaffold2064	7321	TT	CC	1947027959
SNP_P4_171772_7445	NW_004517113.1	Scaffold2064	7445	AA	TT	1947027961
SNP_P4_171773_9114	NW_004517113.1	Scaffold2064	9114	CC	TT	1947027963
SNP_P4_171774_9146	NW_004517113.1	Scaffold2064	9146	AA	GG	1947027965
SNP_P4_171775_9173	NW_004517113.1	Scaffold2064	9173	GG	AA	1947027967
SNP_P4_171776_9178	NW_004517113.1	Scaffold2064	9178	GG	TT	1947027969
SNP_P4_171777_2703	NW_004517115.1	Scaffold2066	2703	TT	CC	1947027971
SNP_P4_171779_3236	NW_004517118.1	Scaffold2072	3236	GG	AA	1947027973
SNP_P4_171780_3239	NW_004517118.1	Scaffold2072	3239	AA	GG	1947027975
SNP_P4_171781_3420	NW_004517118.1	Scaffold2072	3420	GG	AA	1947027977
SNP_P4_171783_3428	NW_004517118.1	Scaffold2072	3428	CC	TT	1947027979
SNP_P4_171784_5006	NW_004517118.1	Scaffold2072	5006	TT	AA	1947027981
SNP_P4_171785_5071	NW_004517118.1	Scaffold2072	5071	AA	GG	1947027983
SNP_P4_171786_5303	NW_004517118.1	Scaffold2072	5303	GG	AA	1947027985
SNP_P4_171787_5323	NW_004517118.1	Scaffold2072	5323	TT	CC	1947027987
SNP_P4_171788_5455	NW_004517118.1	Scaffold2072	5455	TT	CC	1947027990
SNP_P4_171789_11679	NW_004517118.1	Scaffold2072	11679	AA	CC	1947027992
SNP_P4_171790_12003	NW_004517118.1	Scaffold2072	12003	TT	CC	1947027994
SNP_P4_171791_16305	NW_004517118.1	Scaffold2072	16305	TT	CC	1947027996
SNP_P4_171792_16544	NW_004517118.1	Scaffold2072	16544	TT	AA	1947027998
SNP_P4_171793_26819	NW_004517118.1	Scaffold2072	26819	AA	CC	1947028000
SNP_P4_171794_33534	NW_004517118.1	Scaffold2072	33534	TT	GG	1947028002
SNP_P4_171795_35507	NW_004517118.1	Scaffold2072	35507	TT	CC	1947028004
SNP_P4_171796_38151	NW_004517118.1	Scaffold2072	38151	AA	TT	1947028006
SNP_P4_171797_38241	NW_004517118.1	Scaffold2072	38241	CC	GG	1947028008

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_171799_38394	NW_004517118.1	Scaffold2072	38394	GG	CC	1947028012
SNP_P4_171800_39039	NW_004517118.1	Scaffold2072	39039	TT	AA	1947028014
SNP_P4_171801_39139	NW_004517118.1	Scaffold2072	39139	AA	GG	1947028016
SNP_P4_171802_4633	NW_004517119.1	Scaffold2074	4633	AA	GG	1947028019
SNP_P4_171803_4655	NW_004517119.1	Scaffold2074	4655	AA	CC	1947028021
SNP_P4_171804_4832	NW_004517119.1	Scaffold2074	4832	CC	TT	1947028023
SNP_P4_171805_4986	NW_004517119.1	Scaffold2074	4986	CC	TT	1947028025
SNP_P4_171806_8982	NW_004517119.1	Scaffold2074	8982	AA	CC	1947028027
SNP_P4_171807_16990	NW_004517119.1	Scaffold2074	16990	GG	TT	1947028029
SNP_P4_171808_16997	NW_004517119.1	Scaffold2074	16997	AA	TT	1947028031
SNP_P4_171809_17276	NW_004517119.1	Scaffold2074	17276	GG	AA	1947028033
SNP_P4_171810_17282	NW_004517119.1	Scaffold2074	17282	AA	GG	1947028035
SNP_P4_171811_4100	NW_004517120.1	Scaffold2075	4100	AA	CC	1947028037
SNP_P4_171812_4183	NW_004517120.1	Scaffold2075	4183	GG	TT	1947028039
SNP_P4_171813_4566	NW_004517120.1	Scaffold2075	4566	GG	TT	1947028041
SNP_P4_171814_1012	NW_004517121.1	Scaffold2076	1012	AA	GG	1947028043
SNP_P4_171815_1287	NW_004517121.1	Scaffold2076	1287	CC	AA	1947028045
SNP_P4_171816_1382	NW_004517121.1	Scaffold2076	1382	TT	CC	1947028047
SNP_P4_171817_1482	NW_004517121.1	Scaffold2076	1482	AA	GG	1947028049
SNP_P4_171818_1617	NW_004517121.1	Scaffold2076	1617	TT	AA	1947028051
SNP_P4_171819_3324	NW_004517121.1	Scaffold2076	3324	AA	GG	1947028053
SNP_P4_171820_3325	NW_004517121.1	Scaffold2076	3325	TT	GG	1947028055
SNP_P4_171821_3363	NW_004517121.1	Scaffold2076	3363	CC	TT	1947028057
SNP_P4_171822_9964	NW_004517121.1	Scaffold2076	9964	GG	AA	1947028059
SNP_P4_171823_9974	NW_004517121.1	Scaffold2076	9974	GG	AA	1947028061
SNP_P4_171824_10087	NW_004517121.1	Scaffold2076	10087	AA	GG	1947028064
SNP_P4_171825_11626	NW_004517121.1	Scaffold2076	11626	TT	GG	1947028066
SNP_P4_171826_11662	NW_004517121.1	Scaffold2076	11662	TT	GG	1947028068
SNP_P4_171827_12219	NW_004517121.1	Scaffold2076	12219	TT	AA	1947028070
SNP_P4_171828_12520	NW_004517121.1	Scaffold2076	12520	GG	AA	1947028072
SNP_P4_171829_12531	NW_004517121.1	Scaffold2076	12531	AA	CC	1947028074
SNP_P4_171830_12715	NW_004517121.1	Scaffold2076	12715	TT	CC	1947028076
SNP_P4_171831_20737	NW_004517121.1	Scaffold2076	20737	GG	TT	1947028078
SNP_P4_171832_21251	NW_004517121.1	Scaffold2076	21251	TT	CC	1947028080
SNP_P4_171833_21428	NW_004517121.1	Scaffold2076	21428	CC	AA	1947028082
SNP_P4_171834_21436	NW_004517121.1	Scaffold2076	21436	CC	TT	1947028084
SNP_P4_171835_21465	NW_004517121.1	Scaffold2076	21465	GG	TT	1947028086
SNP_P4_171836_21467	NW_004517121.1	Scaffold2076	21467	GG	TT	1947028088
SNP_P4_171837_21744	NW_004517121.1	Scaffold2076	21744	AA	GG	1947028090
SNP_P4_171838_21766	NW_004517121.1	Scaffold2076	21766	AA	TT	1947028092
SNP_P4_171839_21782	NW_004517121.1	Scaffold2076	21782	CC	TT	1947028094

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_171841_21869	NW_004517121.1	Scaffold2076	21869	AA	GG	1947028098
SNP_P4_171842_21909	NW_004517121.1	Scaffold2076	21909	AA	GG	1947028100
SNP_P4_171843_22216	NW_004517121.1	Scaffold2076	22216	CC	TT	1947028102
SNP_P4_171844_22223	NW_004517121.1	Scaffold2076	22223	TT	CC	1947028104
SNP_P4_171845_2490	NW_004517124.1	Scaffold2081	2490	CC	TT	1947028106
SNP_P4_171846_2903	NW_004517124.1	Scaffold2081	2903	AA	TT	1947028108
SNP_P4_171847_2923	NW_004517124.1	Scaffold2081	2923	TT	AA	1947028110
SNP_P4_171848_7492	NW_004517125.1	Scaffold2082	7492	TT	CC	1947028112
SNP_P4_171849_12977	NW_004517125.1	Scaffold2082	12977	GG	TT	1947028114
SNP_P4_171850_12992	NW_004517125.1	Scaffold2082	12992	TT	CC	1947028116
SNP_P4_171851_13001	NW_004517125.1	Scaffold2082	13001	AA	GG	1947028118
SNP_P4_171852_13003	NW_004517125.1	Scaffold2082	13003	AA	GG	1947028120
SNP_P4_171853_27351	NW_004517125.1	Scaffold2082	27351	AA	GG	1947028122
SNP_P4_171854_27378	NW_004517125.1	Scaffold2082	27378	CC	AA	1947028124
SNP_P4_171855_27516	NW_004517125.1	Scaffold2082	27516	TT	AA	1947028126
SNP_P4_171856_27568	NW_004517125.1	Scaffold2082	27568	AA	CC	1947028128
SNP_P4_171857_29292	NW_004517125.1	Scaffold2082	29292	AA	GG	1947028130
SNP_P4_171858_29606	NW_004517125.1	Scaffold2082	29606	GG	AA	1947028132
SNP_P4_171859_29622	NW_004517125.1	Scaffold2082	29622	AA	TT	1947028134
SNP_P4_171860_29684	NW_004517125.1	Scaffold2082	29684	GG	AA	1947028136
SNP_P4_171861_44556	NW_004517125.1	Scaffold2082	44556	AA	GG	1947028138
SNP_P4_171862_44590	NW_004517125.1	Scaffold2082	44590	CC	TT	1947028140
SNP_P4_171863_44659	NW_004517125.1	Scaffold2082	44659	AA	TT	1947028142
SNP_P4_171864_44765	NW_004517125.1	Scaffold2082	44765	AA	CC	1947028144
SNP_P4_171865_44766	NW_004517125.1	Scaffold2082	44766	AA	GG	1947028147
SNP_P4_171866_44767	NW_004517125.1	Scaffold2082	44767	AA	CC	1947028149
SNP_P4_171867_44857	NW_004517125.1	Scaffold2082	44857	AA	GG	1947028151
SNP_P4_171868_44858	NW_004517125.1	Scaffold2082	44858	GG	AA	1947028153
SNP_P4_171869_56923	NW_004517125.1	Scaffold2082	56923	CC	GG	1947028155
SNP_P4_171870_58402	NW_004517125.1	Scaffold2082	58402	TT	CC	1947028157
SNP_P4_171871_4346	NW_004517126.1	Scaffold2083	4346	GG	AA	1947028159
SNP_P4_171872_5238	NW_004517126.1	Scaffold2083	5238	TT	CC	1947028161
SNP_P4_171873_1739	NW_004517129.1	Scaffold2087	1739	AA	GG	1947028163
SNP_P4_171874_2055	NW_004517129.1	Scaffold2087	2055	GG	AA	1947028165
SNP_P4_171875_2091	NW_004517129.1	Scaffold2087	2091	GG	TT	1947028167
SNP_P4_171876_2298	NW_004517129.1	Scaffold2087	2298	CC	TT	1947028169
SNP_P4_171877_2461	NW_004517129.1	Scaffold2087	2461	CC	AA	1947028171
SNP_P4_171878_2464	NW_004517129.1	Scaffold2087	2464	CC	TT	1947028173
SNP_P4_171879_3154	NW_004517129.1	Scaffold2087	3154	TT	CC	1947028175
SNP_P4_171880_3317	NW_004517129.1	Scaffold2087	3317	TT	CC	1947028177
SNP_P4_171881_3448	NW_004517129.1	Scaffold2087	3448	GG	AA	1947028179

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_171884_3560	NW_004517129.1	Scaffold2087	3560	AA	GG	1947028186
SNP_P4_171885_3565	NW_004517129.1	Scaffold2087	3565	AA	TT	1947028188
SNP_P4_171886_3585	NW_004517129.1	Scaffold2087	3585	AA	GG	1947028190
SNP_P4_171887_3652	NW_004517129.1	Scaffold2087	3652	AA	GG	1947028192
SNP_P4_171888_3768	NW_004517129.1	Scaffold2087	3768	TT	CC	1947028194
SNP_P4_171889_5360	NW_004517129.1	Scaffold2087	5360	AA	TT	1947028196
SNP_P4_171890_5369	NW_004517129.1	Scaffold2087	5369	AA	TT	1947028198
SNP_P4_171891_5407	NW_004517129.1	Scaffold2087	5407	GG	AA	1947028201
SNP_P4_171892_444	NW_004517131.1	Scaffold2089	444	AA	CC	1947028203
SNP_P4_171893_526	NW_004517131.1	Scaffold2089	526	TT	GG	1947028205
SNP_P4_171895_736	NW_004517131.1	Scaffold2089	736	AA	GG	1947028207
SNP_P4_171897_827	NW_004517131.1	Scaffold2089	827	GG	AA	1947028209
SNP_P4_171898_899	NW_004517131.1	Scaffold2089	899	AA	GG	1947028211
SNP_P4_171899_920	NW_004517131.1	Scaffold2089	920	AA	TT	1947028213
SNP_P4_171900_947	NW_004517131.1	Scaffold2089	947	GG	TT	1947028215
SNP_P4_171901_953	NW_004517131.1	Scaffold2089	953	CC	GG	1947028218
SNP_P4_171902_954	NW_004517131.1	Scaffold2089	954	GG	TT	1947028220
SNP_P4_171903_958	NW_004517131.1	Scaffold2089	958	GG	AA	1947028222
SNP_P4_171904_1059	NW_004517131.1	Scaffold2089	1059	AA	TT	1947028224
SNP_P4_171905_1064	NW_004517131.1	Scaffold2089	1064	GG	CC	1947028226
SNP_P4_171906_1077	NW_004517131.1	Scaffold2089	1077	TT	GG	1947028228
SNP_P4_171907_1099	NW_004517131.1	Scaffold2089	1099	TT	GG	1947028230
SNP_P4_171908_3438	NW_004517131.1	Scaffold2089	3438	TT	GG	1947028232
SNP_P4_171909_5202	NW_004517131.1	Scaffold2089	5202	AA	CC	1947028234
SNP_P4_171910_5203	NW_004517131.1	Scaffold2089	5203	TT	CC	1947028237
SNP_P4_171911_5545	NW_004517131.1	Scaffold2089	5545	TT	CC	1947028239
SNP_P4_171912_5547	NW_004517131.1	Scaffold2089	5547	AA	TT	1947028241
SNP_P4_171913_5571	NW_004517131.1	Scaffold2089	5571	CC	AA	1947028243
SNP_P4_171914_5589	NW_004517131.1	Scaffold2089	5589	CC	AA	1947028245
SNP_P4_171915_6467	NW_004517131.1	Scaffold2089	6467	AA	TT	1947028247
SNP_P4_171916_6474	NW_004517131.1	Scaffold2089	6474	AA	CC	1947028249
SNP_P4_171917_6535	NW_004517131.1	Scaffold2089	6535	GG	TT	1947028252
SNP_P4_171918_6674	NW_004517131.1	Scaffold2089	6674	TT	AA	1947028254
SNP_P4_171919_7439	NW_004517134.1	Scaffold2095	7439	TT	CC	1947028256
SNP_P4_171920_7596	NW_004517134.1	Scaffold2095	7596	AA	TT	1947028258
SNP_P4_171921_17457	NW_004517134.1	Scaffold2095	17457	AA	GG	1947028260
SNP_P4_171922_24742	NW_004517134.1	Scaffold2095	24742	CC	TT	1947028262
SNP_P4_171923_2011	NW_004517135.1	Scaffold2096	2011	CC	TT	1947028264
SNP_P4_171924_2077	NW_004517135.1	Scaffold2096	2077	TT	CC	1947028266
SNP_P4_171925_4554	NW_004517136.1	Scaffold2097	4554	CC	AA	1947028268

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_171926_4570	NW_004517136.1	Scaffold2097	4570	AA	TT	1947028270
SNP_P4_171927_4877	NW_004517136.1	Scaffold2097	4877	AA	TT	1947028272
SNP_P4_171928_4921	NW_004517136.1	Scaffold2097	4921	CC	AA	1947028274
SNP_P4_171930_5025	NW_004517136.1	Scaffold2097	5025	TT	CC	1947028276
SNP_P4_171931_6563	NW_004517136.1	Scaffold2097	6563	TT	CC	1947028278
SNP_P4_171932_14720	NW_004517136.1	Scaffold2097	14720	CC	TT	1947028280
SNP_P4_171933_20767	NW_004517136.1	Scaffold2097	20767	AA	CC	1947028282
SNP_P4_171934_20788	NW_004517136.1	Scaffold2097	20788	AA	GG	1947028284
SNP_P4_171935_29520	NW_004517136.1	Scaffold2097	29520	GG	AA	1947028287
SNP_P4_171936_31601	NW_004517136.1	Scaffold2097	31601	TT	CC	1947028289
SNP_P4_171937_31731	NW_004517136.1	Scaffold2097	31731	CC	TT	1947028291
SNP_P4_171938_31751	NW_004517136.1	Scaffold2097	31751	AA	GG	1947028293
SNP_P4_171939_31784	NW_004517136.1	Scaffold2097	31784	TT	GG	1947028295
SNP_P4_171940_31826	NW_004517136.1	Scaffold2097	31826	TT	CC	1947028297
SNP_P4_171941_31829	NW_004517136.1	Scaffold2097	31829	CC	GG	1947028299
SNP_P4_171942_38029	NW_004517136.1	Scaffold2097	38029	CC	GG	1947028301
SNP_P4_171943_38031	NW_004517136.1	Scaffold2097	38031	GG	AA	1947028303
SNP_P4_171946_295	NW_004517140.1	Scaffold2103	295	GG	AA	1947028305
SNP_P4_171947_4430	NW_004517140.1	Scaffold2103	4430	AA	CC	1947028307
SNP_P4_171948_4431	NW_004517140.1	Scaffold2103	4431	TT	CC	1947028309
SNP_P4_171949_4769	NW_004517140.1	Scaffold2103	4769	GG	CC	1947028311
SNP_P4_171950_42697	NW_004517140.1	Scaffold2103	42697	TT	CC	1947028313
SNP_P4_171951_42707	NW_004517140.1	Scaffold2103	42707	TT	CC	1947028315
SNP_P4_171952_42710	NW_004517140.1	Scaffold2103	42710	TT	CC	1947028317
SNP_P4_171953_44441	NW_004517140.1	Scaffold2103	44441	AA	GG	1947028319
SNP_P4_171954_44503	NW_004517140.1	Scaffold2103	44503	GG	AA	1947028321
SNP_P4_171955_52443	NW_004517140.1	Scaffold2103	52443	CC	AA	1947028323
SNP_P4_171956_52448	NW_004517140.1	Scaffold2103	52448	CC	GG	1947028325
SNP_P4_171957_61455	NW_004517140.1	Scaffold2103	61455	GG	AA	1947028327
SNP_P4_171958_61481	NW_004517140.1	Scaffold2103	61481	TT	GG	1947028329
SNP_P4_171959_81425	NW_004517140.1	Scaffold2103	81425	GG	AA	1947028331
SNP_P4_171960_103186	NW_004517140.1	Scaffold2103	103186	CC	AA	1947028333
SNP_P4_171961_103197	NW_004517140.1	Scaffold2103	103197	GG	TT	1947028335
SNP_P4_171963_118766	NW_004517140.1	Scaffold2103	118766	TT	CC	1947028337
SNP_P4_171964_118774	NW_004517140.1	Scaffold2103	118774	TT	CC	1947028339
SNP_P4_171965_118810	NW_004517140.1	Scaffold2103	118810	TT	GG	1947028341
SNP_P4_171966_119008	NW_004517140.1	Scaffold2103	119008	AA	GG	1947028343
SNP_P4_171967_119010	NW_004517140.1	Scaffold2103	119010	GG	CC	1947028345
SNP_P4_171968_119026	NW_004517140.1	Scaffold2103	119026	AA	GG	1947028347
SNP_P4_171969_119343	NW_004517140.1	Scaffold2103	119343	TT	CC	1947028349
SNP_P4_171970_119354	NW_004517140.1	Scaffold2103	119354	AA	GG	1947028351
SNP_P4_171971_119363	NW_004517140.1	Scaffold2103	119363	GG	AA	1947028353

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_171973_119375	NW_004517140.1	Scaffold2103	119375	TT	GG	1947028358
SNP_P4_171974_119388	NW_004517140.1	Scaffold2103	119388	GG	AA	1947028360
SNP_P4_171975_119390	NW_004517140.1	Scaffold2103	119390	TT	CC	1947028362
SNP_P4_171976_119399	NW_004517140.1	Scaffold2103	119399	TT	AA	1947028364
SNP_P4_171977_119417	NW_004517140.1	Scaffold2103	119417	AA	GG	1947028366
SNP_P4_171978_119424	NW_004517140.1	Scaffold2103	119424	AA	GG	1947028368
SNP_P4_171979_123875	NW_004517140.1	Scaffold2103	123875	CC	GG	1947028370
SNP_P4_171980_123948	NW_004517140.1	Scaffold2103	123948	GG	AA	1947028372
SNP_P4_171981_124005	NW_004517140.1	Scaffold2103	124005	AA	GG	1947028374
SNP_P4_171982_124013	NW_004517140.1	Scaffold2103	124013	GG	AA	1947028376
SNP_P4_171983_124049	NW_004517140.1	Scaffold2103	124049	GG	TT	1947028378
SNP_P4_171985_124064	NW_004517140.1	Scaffold2103	124064	AA	GG	1947028380
SNP_P4_171986_124074	NW_004517140.1	Scaffold2103	124074	GG	AA	1947028382
SNP_P4_171988_124165	NW_004517140.1	Scaffold2103	124165	TT	CC	1947028384
SNP_P4_171989_124523	NW_004517140.1	Scaffold2103	124523	AA	GG	1947028386
SNP_P4_171990_124552	NW_004517140.1	Scaffold2103	124552	TT	AA	1947028388
SNP_P4_171991_124563	NW_004517140.1	Scaffold2103	124563	GG	TT	1947028390
SNP_P4_171992_124914	NW_004517140.1	Scaffold2103	124914	AA	GG	1947028392
SNP_P4_171993_134269	NW_004517140.1	Scaffold2103	134269	CC	TT	1947028394
SNP_P4_171994_134636	NW_004517140.1	Scaffold2103	134636	TT	CC	1947028396
SNP_P4_171995_134662	NW_004517140.1	Scaffold2103	134662	CC	GG	1947028398
SNP_P4_171996_135627	NW_004517140.1	Scaffold2103	135627	GG	TT	1947028400
SNP_P4_171997_135641	NW_004517140.1	Scaffold2103	135641	CC	TT	1947028402
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SNP_P4_171999_135804	NW_004517140.1	Scaffold2103	135804	GG	AA	1947028406
SNP_P4_172000_135816	NW_004517140.1	Scaffold2103	135816	GG	TT	1947028408
SNP_P4_172001_135826	NW_004517140.1	Scaffold2103	135826	TT	CC	1947028410
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SNP_P4_172005_69	NW_004517141.1	Scaffold2104	69	CC	TT	1947028416
SNP_P4_172006_4568	NW_004517141.1	Scaffold2104	4568	GG	AA	1947028418
SNP_P4_172007_5479	NW_004517141.1	Scaffold2104	5479	TT	GG	1947028420
SNP_P4_172008_5637	NW_004517141.1	Scaffold2104	5637	CC	GG	1947028422
SNP_P4_172009_5719	NW_004517141.1	Scaffold2104	5719	CC	GG	1947028424
SNP_P4_172010_6003	NW_004517141.1	Scaffold2104	6003	CC	TT	1947028426
SNP_P4_172011_6404	NW_004517141.1	Scaffold2104	6404	GG	TT	1947028428
SNP_P4_172012_6559	NW_004517141.1	Scaffold2104	6559	TT	CC	1947028430
SNP_P4_172013_9335	NW_004517141.1	Scaffold2104	9335	GG	TT	1947028434
SNP_P4_172014_9443	NW_004517141.1	Scaffold2104	9443	CC	TT	1947028437
SNP_P4_172015_9444	NW_004517141.1	Scaffold2104	9444	CC	AA	1947028439
SNP_P4_172016_14348	NW_004517141.1	Scaffold2104	14348	TT	AA	1947028441

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_172018_17230	NW_004517141.1	Scaffold2104	17230	TT	CC	1947028445
SNP_P4_172019_18009	NW_004517141.1	Scaffold2104	18009	AA	GG	1947028447
SNP_P4_172020_18267	NW_004517141.1	Scaffold2104	18267	AA	GG	1947028449
SNP_P4_172021_18407	NW_004517141.1	Scaffold2104	18407	CC	TT	1947028450
SNP_P4_172022_25347	NW_004517141.1	Scaffold2104	25347	TT	CC	1947028452
SNP_P4_172023_25388	NW_004517141.1	Scaffold2104	25388	CC	AA	1947028455
SNP_P4_172024_25406	NW_004517141.1	Scaffold2104	25406	TT	CC	1947028457
SNP_P4_172025_35716	NW_004517141.1	Scaffold2104	35716	TT	GG	1947028459
SNP_P4_172026_35736	NW_004517141.1	Scaffold2104	35736	TT	AA	1947028461
SNP_P4_172027_36014	NW_004517141.1	Scaffold2104	36014	GG	TT	1947028463
SNP_P4_172028_36026	NW_004517141.1	Scaffold2104	36026	TT	CC	1947028465
SNP_P4_172029_49226	NW_004517141.1	Scaffold2104	49226	TT	AA	1947028467
SNP_P4_172030_60568	NW_004517141.1	Scaffold2104	60568	AA	GG	1947028469
SNP_P4_172031_60899	NW_004517141.1	Scaffold2104	60899	GG	CC	1947028471
SNP_P4_172032_60944	NW_004517141.1	Scaffold2104	60944	CC	TT	1947028473
SNP_P4_172033_60949	NW_004517141.1	Scaffold2104	60949	AA	GG	1947028475
SNP_P4_172034_60999	NW_004517141.1	Scaffold2104	60999	AA	TT	1947028477
SNP_P4_172035_61003	NW_004517141.1	Scaffold2104	61003	AA	GG	1947028479
SNP_P4_172036_61030	NW_004517141.1	Scaffold2104	61030	CC	TT	1947028481
SNP_P4_172037_243	NW_004517143.1	Scaffold2106	243	TT	AA	1947028483
SNP_P4_172038_258	NW_004517143.1	Scaffold2106	258	AA	TT	1947028485
SNP_P4_172039_278	NW_004517143.1	Scaffold2106	278	TT	CC	1947028487
SNP_P4_172040_286	NW_004517143.1	Scaffold2106	286	AA	GG	1947028489
SNP_P4_172041_586	NW_004517143.1	Scaffold2106	586	TT	AA	1947028491
SNP_P4_172042_689	NW_004517143.1	Scaffold2106	689	AA	GG	1947028493
SNP_P4_172043_949	NW_004517143.1	Scaffold2106	949	GG	AA	1947028495
SNP_P4_172044_1278	NW_004517143.1	Scaffold2106	1278	AA	CC	1947028497
SNP_P4_172045_2875	NW_004517143.1	Scaffold2106	2875	TT	AA	1947028500
SNP_P4_172046_3064	NW_004517143.1	Scaffold2106	3064	TT	CC	1947028502
SNP_P4_172047_3131	NW_004517143.1	Scaffold2106	3131	TT	AA	1947028504
SNP_P4_172048_1040	NW_004517144.1	Scaffold2108	1040	AA	GG	1947028506
SNP_P4_172049_1465	NW_004517144.1	Scaffold2108	1465	CC	TT	1947028508
SNP_P4_172050_1553	NW_004517144.1	Scaffold2108	1553	AA	CC	1947028510
SNP_P4_172051_1582	NW_004517144.1	Scaffold2108	1582	CC	AA	1947028512
SNP_P4_172052_1665	NW_004517144.1	Scaffold2108	1665	TT	CC	1947028514
SNP_P4_172053_1713	NW_004517144.1	Scaffold2108	1713	TT	CC	1947028516
SNP_P4_172054_1714	NW_004517144.1	Scaffold2108	1714	GG	AA	1947028518
SNP_P4_172055_1880	NW_004517144.1	Scaffold2108	1880	CC	TT	1947028520
SNP_P4_172056_1902	NW_004517144.1	Scaffold2108	1902	CC	AA	1947028522
SNP_P4_172057_2208	NW_004517144.1	Scaffold2108	2208	GG	CC	1947028524
SNP_P4_172058_3001	NW_004517144.1	Scaffold2108	3001	AA	CC	1947028526

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SNP_P4_172060_4024	NW_004517146.1	Scaffold2113	4024	AA	CC	1947028530
SNP_P4_172061_4205	NW_004517146.1	Scaffold2113	4205	AA	GG	1947028532
SNP_P4_172062_4270	NW_004517146.1	Scaffold2113	4270	TT	AA	1947028534
SNP_P4_172063_1354	NW_004517152.1	Scaffold2122	1354	TT	CC	1947028536
SNP_P4_172064_5296	NW_004517153.1	Scaffold2124	5296	TT	AA	1947028538
SNP_P4_172065_11246	NW_004517153.1	Scaffold2124	11246	AA	TT	1947028540
SNP_P4_172066_35226	NW_004517153.1	Scaffold2124	35226	AA	GG	1947028542
SNP_P4_172067_14739	NW_004517154.1	Scaffold2125	14739	AA	GG	1947028544
SNP_P4_172068_14809	NW_004517154.1	Scaffold2125	14809	TT	AA	1947028546
SNP_P4_172069_14823	NW_004517154.1	Scaffold2125	14823	AA	CC	1947028548
SNP_P4_172070_37934	NW_004517154.1	Scaffold2125	37934	AA	GG	1947028550
SNP_P4_172071_38702	NW_004517154.1	Scaffold2125	38702	AA	TT	1947028552
SNP_P4_172073_99	NW_004517155.1	Scaffold2126	99	TT	CC	1947028554
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SNP_P4_172075_491	NW_004517155.1	Scaffold2126	491	AA	TT	1947028558
SNP_P4_172076_2192	NW_004517155.1	Scaffold2126	2192	GG	AA	1947028560
SNP_P4_172078_5124	NW_004517155.1	Scaffold2126	5124	CC	TT	1947028562
SNP_P4_172080_5425	NW_004517155.1	Scaffold2126	5425	AA	GG	1947028565
SNP_P4_172081_5429	NW_004517155.1	Scaffold2126	5429	GG	AA	1947028567
SNP_P4_172082_5433	NW_004517155.1	Scaffold2126	5433	AA	TT	1947028569
SNP_P4_172083_5474	NW_004517155.1	Scaffold2126	5474	TT	AA	1947028571
SNP_P4_172084_5521	NW_004517155.1	Scaffold2126	5521	GG	AA	1947028573
SNP_P4_172085_6069	NW_004517155.1	Scaffold2126	6069	AA	GG	1947028575
SNP_P4_172086_8903	NW_004517155.1	Scaffold2126	8903	TT	CC	1947028577
SNP_P4_172087_9498	NW_004517155.1	Scaffold2126	9498	GG	AA	1947028579
SNP_P4_172088_10863	NW_004517155.1	Scaffold2126	10863	CC	TT	1947028581
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SNP_P4_172100_9925	NW_004517156.1	Scaffold2127	9925	AA	GG	1947028603
SNP_P4_172101_31205	NW_004517156.1	Scaffold2127	31205	AA	GG	1947028605
SNP_P4_172102_31544	NW_004517156.1	Scaffold2127	31544	CC	TT	1947028607
SNP_P4_172104_40347	NW_004517156.1	Scaffold2127	40347	CC	TT	1947028609
SNP_P4_172105_40597	NW_004517156.1	Scaffold2127	40597	TT	GG	1947028611

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_172107_41003	NW_004517156.1	Scaffold2127	41003	TT	CC	1947028615
SNP_P4_172108_41162	NW_004517156.1	Scaffold2127	41162	TT	CC	1947028617
SNP_P4_172109_54461	NW_004517156.1	Scaffold2127	54461	AA	TT	1947028619
SNP_P4_172110_54482	NW_004517156.1	Scaffold2127	54482	CC	GG	1947028621
SNP_P4_172111_54522	NW_004517156.1	Scaffold2127	54522	AA	GG	1947028623
SNP_P4_172112_14280	NW_004517157.1	Scaffold2128	14280	GG	AA	1947028625
SNP_P4_172113_14289	NW_004517157.1	Scaffold2128	14289	CC	TT	1947028627
SNP_P4_172114_14311	NW_004517157.1	Scaffold2128	14311	TT	CC	1947028629
SNP_P4_172115_14879	NW_004517157.1	Scaffold2128	14879	CC	TT	1947028631
SNP_P4_172116_14959	NW_004517157.1	Scaffold2128	14959	GG	TT	1947028633
SNP_P4_172117_15025	NW_004517157.1	Scaffold2128	15025	GG	AA	1947028635
SNP_P4_172118_779	NW_004517159.1	Scaffold2131	779	GG	AA	1947028637
SNP_P4_172120_927	NW_004517159.1	Scaffold2131	927	CC	GG	1947028639
SNP_P4_172121_1037	NW_004517160.1	Scaffold2132	1037	TT	GG	1947028641
SNP_P4_172122_1042	NW_004517160.1	Scaffold2132	1042	TT	AA	1947028643
SNP_P4_172123_1342	NW_004517160.1	Scaffold2132	1342	TT	AA	1947028645
SNP_P4_172124_3812	NW_004517162.1	Scaffold2134	3812	AA	CC	1947028647
SNP_P4_172125_3877	NW_004517162.1	Scaffold2134	3877	AA	CC	1947028649
SNP_P4_172126_3880	NW_004517162.1	Scaffold2134	3880	TT	AA	1947028651
SNP_P4_172127_3881	NW_004517162.1	Scaffold2134	3881	AA	TT	1947028653
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SNP_P4_172129_4195	NW_004517162.1	Scaffold2134	4195	AA	CC	1947028657
SNP_P4_172130_5294	NW_004517162.1	Scaffold2134	5294	CC	GG	1947028659
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SNP_P4_172133_5541	NW_004517162.1	Scaffold2134	5541	GG	AA	1947028663
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SNP_P4_172135_5764	NW_004517162.1	Scaffold2134	5764	TT	CC	1947028667
SNP_P4_172136_5783	NW_004517162.1	Scaffold2134	5783	TT	CC	1947028669
SNP_P4_172137_5802	NW_004517162.1	Scaffold2134	5802	CC	TT	1947028671
SNP_P4_172138_5821	NW_004517162.1	Scaffold2134	5821	CC	TT	1947028673
SNP_P4_172139_5830	NW_004517162.1	Scaffold2134	5830	TT	CC	1947028675
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SNP_P4_172143_7252	NW_004517162.1	Scaffold2134	7252	AA	TT	1947028683
SNP_P4_172144_7275	NW_004517163.1	Scaffold2135	7275	TT	CC	1947028685
SNP_P4_172145_7279	NW_004517163.1	Scaffold2135	7279	TT	CC	1947028687
SNP_P4_172146_7305	NW_004517163.1	Scaffold2135	7305	CC	AA	1947028689
SNP_P4_172147_7324	NW_004517163.1	Scaffold2135	7324	GG	TT	1947028691
SNP_P4_172148_7337	NW_004517163.1	Scaffold2135	7337	TT	CC	1947028693
SNP_P4_172149_131	NW_004517164.1	Scaffold2138	131	GG	AA	1947028695

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_172151_237	NW_004517164.1	Scaffold2138	237	GG	AA	1947028699
SNP_P4_172152_244	NW_004517164.1	Scaffold2138	244	GG	CC	1947028701
SNP_P4_172153_337	NW_004517164.1	Scaffold2138	337	GG	TT	1947028703
SNP_P4_172154_375	NW_004517164.1	Scaffold2138	375	AA	CC	1947028705
SNP_P4_172155_382	NW_004517164.1	Scaffold2138	382	GG	CC	1947028707
SNP_P4_172156_359	NW_004517166.1	Scaffold2140	359	AA	GG	1947028709
SNP_P4_172157_463	NW_004517166.1	Scaffold2140	463	AA	CC	1947028711
SNP_P4_172158_550	NW_004517166.1	Scaffold2140	550	TT	CC	1947028713
SNP_P4_172159_563	NW_004517166.1	Scaffold2140	563	AA	TT	1947028715
SNP_P4_172160_724	NW_004517166.1	Scaffold2140	724	TT	GG	1947028717
SNP_P4_172161_910	NW_004517166.1	Scaffold2140	910	AA	GG	1947028719
SNP_P4_172162_14735	NW_004517167.1	Scaffold2141	14735	CC	TT	1947028721
SNP_P4_172163_14818	NW_004517167.1	Scaffold2141	14818	CC	TT	1947028723
SNP_P4_172164_14890	NW_004517167.1	Scaffold2141	14890	TT	AA	1947028725
SNP_P4_172165_14963	NW_004517167.1	Scaffold2141	14963	CC	GG	1947028727
SNP_P4_172166_15188	NW_004517167.1	Scaffold2141	15188	AA	TT	1947028729
SNP_P4_172167_15238	NW_004517167.1	Scaffold2141	15238	TT	CC	1947028731
SNP_P4_172168_15416	NW_004517167.1	Scaffold2141	15416	GG	AA	1947028733
SNP_P4_172169_16705	NW_004517167.1	Scaffold2141	16705	GG	TT	1947028735
SNP_P4_172170_17427	NW_004517167.1	Scaffold2141	17427	CC	TT	1947028737
SNP_P4_172171_17807	NW_004517167.1	Scaffold2141	17807	TT	CC	1947028739
SNP_P4_172172_17926	NW_004517167.1	Scaffold2141	17926	GG	AA	1947028741
SNP_P4_172174_19305	NW_004517167.1	Scaffold2141	19305	AA	GG	1947028743
SNP_P4_172175_19324	NW_004517167.1	Scaffold2141	19324	GG	AA	1947028745
SNP_P4_172176_19662	NW_004517167.1	Scaffold2141	19662	GG	AA	1947028747
SNP_P4_172177_19982	NW_004517167.1	Scaffold2141	19982	AA	CC	1947028749
SNP_P4_172178_558	NW_004517168.1	Scaffold2142	558	TT	CC	1947028751
SNP_P4_172179_588	NW_004517168.1	Scaffold2142	588	GG	AA	1947028753
SNP_P4_172180_699	NW_004517168.1	Scaffold2142	699	CC	GG	1947028756
SNP_P4_172181_799	NW_004517168.1	Scaffold2142	799	CC	TT	1947028758
SNP_P4_172182_741	NW_004517169.1	Scaffold2145	741	TT	GG	1947028760
SNP_P4_172183_222	NW_004517170.1	Scaffold2146	222	AA	TT	1947028762
SNP_P4_172184_504	NW_004517170.1	Scaffold2146	504	TT	AA	1947028764
SNP_P4_172185_1167	NW_004517170.1	Scaffold2146	1167	CC	TT	1947028766
SNP_P4_172186_1190	NW_004517170.1	Scaffold2146	1190	TT	CC	1947028768
SNP_P4_172187_908	NW_004517171.1	Scaffold2147	908	TT	AA	1947028770
SNP_P4_172188_960	NW_004517171.1	Scaffold2147	960	TT	CC	1947028772
SNP_P4_172189_961	NW_004517171.1	Scaffold2147	961	GG	TT	1947028774
SNP_P4_172190_965	NW_004517171.1	Scaffold2147	965	AA	GG	1947028776
SNP_P4_172191_982	NW_004517171.1	Scaffold2147	982	AA	GG	1947028779
SNP_P4_172192_1062	NW_004517171.1	Scaffold2147	1062	GG	TT	1947028781

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_172197_6552	NW_004517171.1	Scaffold2147	6552	GG	AA	1947028789
SNP_P4_172198_21438	NW_004517171.1	Scaffold2147	21438	GG	AA	1947028791
SNP_P4_172199_21489	NW_004517171.1	Scaffold2147	21489	GG	AA	1947028793
SNP_P4_172200_22514	NW_004517171.1	Scaffold2147	22514	CC	AA	1947028795
SNP_P4_172201_22689	NW_004517171.1	Scaffold2147	22689	GG	TT	1947028797
SNP_P4_172202_22692	NW_004517171.1	Scaffold2147	22692	GG	AA	1947028799
SNP_P4_172203_22914	NW_004517171.1	Scaffold2147	22914	AA	CC	1947028801
SNP_P4_172204_22931	NW_004517171.1	Scaffold2147	22931	CC	GG	1947028803
SNP_P4_172205_23250	NW_004517171.1	Scaffold2147	23250	CC	AA	1947028805
SNP_P4_172206_23406	NW_004517171.1	Scaffold2147	23406	AA	GG	1947028807
SNP_P4_172207_23471	NW_004517171.1	Scaffold2147	23471	AA	TT	1947028809
SNP_P4_172208_23625	NW_004517171.1	Scaffold2147	23625	AA	TT	1947028811
SNP_P4_172209_24145	NW_004517171.1	Scaffold2147	24145	GG	AA	1947028813
SNP_P4_172211_24520	NW_004517171.1	Scaffold2147	24520	TT	GG	1947028815
SNP_P4_172212_24783	NW_004517171.1	Scaffold2147	24783	TT	CC	1947028817
SNP_P4_172213_24907	NW_004517171.1	Scaffold2147	24907	AA	TT	1947028819
SNP_P4_172214_24921	NW_004517171.1	Scaffold2147	24921	GG	CC	1947028821
SNP_P4_172215_25005	NW_004517171.1	Scaffold2147	25005	AA	CC	1947028823
SNP_P4_172217_503	NW_004517174.1	Scaffold2151	503	AA	GG	1947028825
SNP_P4_172218_856	NW_004517174.1	Scaffold2151	856	TT	CC	1947028827
SNP_P4_172219_902	NW_004517174.1	Scaffold2151	902	GG	AA	1947028829
SNP_P4_172220_1219	NW_004517174.1	Scaffold2151	1219	AA	GG	1947028832
SNP_P4_172221_20987	NW_004517175.1	Scaffold2152	20987	GG	CC	1947028834
SNP_P4_172222_21213	NW_004517175.1	Scaffold2152	21213	CC	TT	1947028836
SNP_P4_172223_21274	NW_004517175.1	Scaffold2152	21274	GG	CC	1947028838
SNP_P4_172224_21432	NW_004517175.1	Scaffold2152	21432	GG	AA	1947028840
SNP_P4_172225_21460	NW_004517175.1	Scaffold2152	21460	AA	CC	1947028842
SNP_P4_172226_21774	NW_004517175.1	Scaffold2152	21774	AA	GG	1947028844
SNP_P4_172227_21806	NW_004517175.1	Scaffold2152	21806	GG	TT	1947028846
SNP_P4_172228_22114	NW_004517175.1	Scaffold2152	22114	AA	GG	1947028848
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SNP_P4_172230_22171	NW_004517175.1	Scaffold2152	22171	TT	CC	1947028852
SNP_P4_172231_22255	NW_004517175.1	Scaffold2152	22255	AA	GG	1947028855
SNP_P4_172232_22290	NW_004517175.1	Scaffold2152	22290	AA	GG	1947028857
SNP_P4_172233_22341	NW_004517175.1	Scaffold2152	22341	CC	GG	1947028859
SNP_P4_172234_22462	NW_004517175.1	Scaffold2152	22462	CC	TT	1947028861
SNP_P4_172235_22472	NW_004517175.1	Scaffold2152	22472	AA	GG	1947028863
SNP_P4_172236_22492	NW_004517175.1	Scaffold2152	22492	TT	CC	1947028865
SNP_P4_172237_33898	NW_004517175.1	Scaffold2152	33898	CC	AA	1947028867

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_172241_41751	NW_004517175.1	Scaffold2152	41751	TT	CC	1947028873
SNP_P4_172242_41758	NW_004517175.1	Scaffold2152	41758	GG	CC	1947028875
SNP_P4_172243_41769	NW_004517175.1	Scaffold2152	41769	AA	GG	1947028877
SNP_P4_172244_41783	NW_004517175.1	Scaffold2152	41783	CC	GG	1947028879
SNP_P4_172245_41787	NW_004517175.1	Scaffold2152	41787	TT	CC	1947028881
SNP_P4_172246_41828	NW_004517175.1	Scaffold2152	41828	GG	AA	1947028883
SNP_P4_172247_41854	NW_004517175.1	Scaffold2152	41854	AA	TT	1947028885
SNP_P4_172248_41855	NW_004517175.1	Scaffold2152	41855	CC	TT	1947028887
SNP_P4_172249_41863	NW_004517175.1	Scaffold2152	41863	AA	GG	1947028889
SNP_P4_172250_41875	NW_004517175.1	Scaffold2152	41875	TT	AA	1947028891
SNP_P4_172251_41876	NW_004517175.1	Scaffold2152	41876	AA	TT	1947028893
SNP_P4_172252_41880	NW_004517175.1	Scaffold2152	41880	AA	CC	1947028895
SNP_P4_172253_41883	NW_004517175.1	Scaffold2152	41883	TT	AA	1947028897
SNP_P4_172254_41919	NW_004517175.1	Scaffold2152	41919	AA	TT	1947028899
SNP_P4_172255_41941	NW_004517175.1	Scaffold2152	41941	GG	AA	1947028901
SNP_P4_172256_42202	NW_004517175.1	Scaffold2152	42202	GG	AA	1947028903
SNP_P4_172257_42219	NW_004517175.1	Scaffold2152	42219	CC	AA	1947028905
SNP_P4_172258_42702	NW_004517175.1	Scaffold2152	42702	CC	TT	1947028907
SNP_P4_172259_42923	NW_004517175.1	Scaffold2152	42923	AA	GG	1947028909
SNP_P4_172260_43090	NW_004517175.1	Scaffold2152	43090	AA	GG	1947028911
SNP_P4_172261_43158	NW_004517175.1	Scaffold2152	43158	GG	AA	1947028913
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SNP_P4_172265_67517	NW_004517175.1	Scaffold2152	67517	CC	TT	1947028921
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SNP_P4_172272_70071	NW_004517175.1	Scaffold2152	70071	GG	AA	1947028935
SNP_P4_172273_70074	NW_004517175.1	Scaffold2152	70074	AA	GG	1947028937
SNP_P4_172274_70330	NW_004517175.1	Scaffold2152	70330	AA	TT	1947028939
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SNP_P4_172280_88272	NW_004517175.1	Scaffold2152	88272	AA	GG	1947028945
SNP_P4_172281_88300	NW_004517175.1	Scaffold2152	88300	GG	AA	1947028947
SNP_P4_172282_88697	NW_004517175.1	Scaffold2152	88697	TT	CC	1947028949
SNP_P4_172283_88722	NW_004517175.1	Scaffold2152	88722	CC	AA	1947028951

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_172284_88890	NW_004517175.1	Scaffold2152	88890	CC	AA	1947028953
SNP_P4_172285_88999	NW_004517175.1	Scaffold2152	88999	GG	TT	1947028955
SNP_P4_172286_91306	NW_004517175.1	Scaffold2152	91306	AA	CC	1947028957
SNP_P4_172287_95660	NW_004517175.1	Scaffold2152	95660	AA	GG	1947028959
SNP_P4_172288_95824	NW_004517175.1	Scaffold2152	95824	CC	AA	1947028961
SNP_P4_172289_95838	NW_004517175.1	Scaffold2152	95838	AA	GG	1947028963
SNP_P4_172290_107929	NW_004517175.1	Scaffold2152	107929	CC	AA	1947028965
SNP_P4_172291_108205	NW_004517175.1	Scaffold2152	108205	CC	AA	1947028967
SNP_P4_172292_108380	NW_004517175.1	Scaffold2152	108380	AA	GG	1947028969
SNP_P4_172294_108713	NW_004517175.1	Scaffold2152	108713	GG	AA	1947028971
SNP_P4_172295_108807	NW_004517175.1	Scaffold2152	108807	CC	TT	1947028973
SNP_P4_172296_120257	NW_004517175.1	Scaffold2152	120257	AA	CC	1947028975
SNP_P4_172297_120271	NW_004517175.1	Scaffold2152	120271	TT	CC	1947028977
SNP_P4_172298_120283	NW_004517175.1	Scaffold2152	120283	AA	TT	1947028979
SNP_P4_172299_120291	NW_004517175.1	Scaffold2152	120291	TT	AA	1947028981
SNP_P4_172300_120315	NW_004517175.1	Scaffold2152	120315	AA	GG	1947028983
SNP_P4_172301_120329	NW_004517175.1	Scaffold2152	120329	CC	TT	1947028985
SNP_P4_172302_129886	NW_004517175.1	Scaffold2152	129886	AA	CC	1947028987
SNP_P4_172303_130209	NW_004517175.1	Scaffold2152	130209	AA	TT	1947028989
SNP_P4_172304_130238	NW_004517175.1	Scaffold2152	130238	TT	CC	1947028991
SNP_P4_172306_162804	NW_004517175.1	Scaffold2152	162804	GG	TT	1947028993
SNP_P4_172307_162877	NW_004517175.1	Scaffold2152	162877	TT	CC	1947028995
SNP_P4_172308_163267	NW_004517175.1	Scaffold2152	163267	GG	AA	1947028998
SNP_P4_172309_173613	NW_004517175.1	Scaffold2152	173613	CC	TT	1947029000
SNP_P4_172310_173653	NW_004517175.1	Scaffold2152	173653	GG	AA	1947029002
SNP_P4_172311_174027	NW_004517175.1	Scaffold2152	174027	TT	CC	1947029004
SNP_P4_172312_184063	NW_004517175.1	Scaffold2152	184063	TT	GG	1947029006
SNP_P4_172313_210422	NW_004517175.1	Scaffold2152	210422	AA	GG	1947029008
SNP_P4_172314_213190	NW_004517175.1	Scaffold2152	213190	CC	TT	1947029010
SNP_P4_172315_268141	NW_004517175.1	Scaffold2152	268141	TT	CC	1947029012
SNP_P4_172316_268356	NW_004517175.1	Scaffold2152	268356	TT	CC	1947029014
SNP_P4_172317_275755	NW_004517175.1	Scaffold2152	275755	TT	CC	1947029016
SNP_P4_172318_281158	NW_004517175.1	Scaffold2152	281158	GG	AA	1947029018
SNP_P4_172319_282258	NW_004517175.1	Scaffold2152	282258	CC	TT	1947029020
SNP_P4_172320_283134	NW_004517175.1	Scaffold2152	283134	AA	TT	1947029022
SNP_P4_172321_283136	NW_004517175.1	Scaffold2152	283136	AA	CC	1947029024
SNP_P4_172322_283302	NW_004517175.1	Scaffold2152	283302	AA	GG	1947029026
SNP_P4_172323_283306	NW_004517175.1	Scaffold2152	283306	TT	CC	1947029028
SNP_P4_172324_283310	NW_004517175.1	Scaffold2152	283310	GG	TT	1947029030
SNP_P4_172325_283314	NW_004517175.1	Scaffold2152	283314	TT	CC	1947029032
SNP_P4_172326_283424	NW_004517175.1	Scaffold2152	283424	AA	GG	1947029034
SNP_P4_172327_283448	NW_004517175.1	Scaffold2152	283448	GG	AA	1947029036

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_172329_283486	NW_004517175.1	Scaffold2152	283486	GG	AA	1947029040
SNP_P4_172330_283620	NW_004517175.1	Scaffold2152	283620	CC	AA	1947029042
SNP_P4_172331_284176	NW_004517175.1	Scaffold2152	284176	GG	TT	1947029044
SNP_P4_172332_304535	NW_004517175.1	Scaffold2152	304535	CC	AA	1947029046
SNP_P4_172333_304611	NW_004517175.1	Scaffold2152	304611	TT	GG	1947029048
SNP_P4_172334_312652	NW_004517175.1	Scaffold2152	312652	CC	TT	1947029049
SNP_P4_172335_324352	NW_004517175.1	Scaffold2152	324352	AA	GG	1947029050
SNP_P4_172336_324654	NW_004517175.1	Scaffold2152	324654	AA	TT	1947029051
SNP_P4_172337_324667	NW_004517175.1	Scaffold2152	324667	AA	GG	1947029052
SNP_P4_172338_325024	NW_004517175.1	Scaffold2152	325024	TT	CC	1947029053
SNP_P4_172339_333266	NW_004517175.1	Scaffold2152	333266	GG	AA	1947029054
SNP_P4_172340_334455	NW_004517175.1	Scaffold2152	334455	CC	AA	1947029055
SNP_P4_172341_336657	NW_004517175.1	Scaffold2152	336657	TT	CC	1947029056
SNP_P4_172343_355875	NW_004517175.1	Scaffold2152	355875	TT	CC	1947029057
SNP_P4_172344_372116	NW_004517175.1	Scaffold2152	372116	TT	AA	1947029058
SNP_P4_172345_379695	NW_004517175.1	Scaffold2152	379695	TT	CC	1947029059
SNP_P4_172346_379932	NW_004517175.1	Scaffold2152	379932	TT	GG	1947029060
SNP_P4_172347_380096	NW_004517175.1	Scaffold2152	380096	AA	GG	1947029061
SNP_P4_172349_2479	NW_004517176.1	Scaffold2153	2479	TT	CC	1947029062
SNP_P4_172351_8210	NW_004517176.1	Scaffold2153	8210	AA	GG	1947029063
SNP_P4_172352_8250	NW_004517176.1	Scaffold2153	8250	CC	TT	1947029117
SNP_P4_172353_8570	NW_004517176.1	Scaffold2153	8570	CC	TT	1947029119
SNP_P4_172355_19786	NW_004517176.1	Scaffold2153	19786	TT	CC	1947029122
SNP_P4_172356_32554	NW_004517176.1	Scaffold2153	32554	AA	GG	1947029124
SNP_P4_172357_32879	NW_004517176.1	Scaffold2153	32879	GG	AA	1947029126
SNP_P4_172358_32901	NW_004517176.1	Scaffold2153	32901	TT	CC	1947029128
SNP_P4_172359_32921	NW_004517176.1	Scaffold2153	32921	AA	GG	1947029130
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SNP_P4_172362_64	NW_004517177.1	Scaffold2155	64	AA	CC	1947029134
SNP_P4_172363_70	NW_004517177.1	Scaffold2155	70	AA	CC	1947029136
SNP_P4_172364_120	NW_004517177.1	Scaffold2155	120	CC	TT	1947029139
SNP_P4_172365_595	NW_004517177.1	Scaffold2155	595	AA	TT	1947029141
SNP_P4_172366_19438	NW_004517177.1	Scaffold2155	19438	TT	GG	1947029143
SNP_P4_172367_25658	NW_004517177.1	Scaffold2155	25658	GG	AA	1947029145
SNP_P4_172368_25725	NW_004517177.1	Scaffold2155	25725	AA	TT	1947029147
SNP_P4_172369_25904	NW_004517177.1	Scaffold2155	25904	TT	CC	1947029149
SNP_P4_172370_25916	NW_004517177.1	Scaffold2155	25916	GG	AA	1947029150
SNP_P4_172371_39384	NW_004517177.1	Scaffold2155	39384	AA	TT	1947029152
SNP_P4_172372_39508	NW_004517177.1	Scaffold2155	39508	CC	AA	1947029155
SNP_P4_172374_39700	NW_004517177.1	Scaffold2155	39700	TT	CC	1947029157
SNP_P4_172375_40388	NW_004517177.1	Scaffold2155	40388	CC	AA	1947029159

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_172377_40479	NW_004517177.1	Scaffold2155	40479	CC	TT	1947029163
SNP_P4_172378_40480	NW_004517177.1	Scaffold2155	40480	TT	GG	1947029165
SNP_P4_172379_40481	NW_004517177.1	Scaffold2155	40481	GG	AA	1947029167
SNP_P4_172380_252	NW_004517179.1	Scaffold2158	252	AA	GG	1947029169
SNP_P4_172381_312	NW_004517179.1	Scaffold2158	312	TT	CC	1947029171
SNP_P4_172382_316	NW_004517179.1	Scaffold2158	316	AA	TT	1947029173
SNP_P4_172383_335	NW_004517179.1	Scaffold2158	335	TT	CC	1947029175
SNP_P4_172384_577	NW_004517179.1	Scaffold2158	577	CC	TT	1947029177
SNP_P4_172385_619	NW_004517179.1	Scaffold2158	619	GG	TT	1947029179
SNP_P4_172386_52268	NW_004517179.1	Scaffold2158	52268	GG	TT	1947029181
SNP_P4_172387_52289	NW_004517179.1	Scaffold2158	52289	AA	GG	1947029183
SNP_P4_172388_64397	NW_004517179.1	Scaffold2158	64397	TT	AA	1947029185
SNP_P4_172389_64441	NW_004517179.1	Scaffold2158	64441	AA	GG	1947029187
SNP_P4_172390_64514	NW_004517179.1	Scaffold2158	64514	AA	GG	1947029189
SNP_P4_172391_64623	NW_004517179.1	Scaffold2158	64623	GG	TT	1947029191
SNP_P4_172392_64624	NW_004517179.1	Scaffold2158	64624	TT	GG	1947029193
SNP_P4_172393_64691	NW_004517179.1	Scaffold2158	64691	GG	TT	1947029195
SNP_P4_172394_64776	NW_004517179.1	Scaffold2158	64776	GG	AA	1947029197
SNP_P4_172395_64810	NW_004517179.1	Scaffold2158	64810	TT	CC	1947029199
SNP_P4_172396_64848	NW_004517179.1	Scaffold2158	64848	AA	CC	1947029201
SNP_P4_172401_102692	NW_004517179.1	Scaffold2158	102692	CC	GG	1947029203
SNP_P4_172402_102695	NW_004517179.1	Scaffold2158	102695	AA	GG	1947029205
SNP_P4_172403_103757	NW_004517179.1	Scaffold2158	103757	AA	GG	1947029207
SNP_P4_172404_106105	NW_004517179.1	Scaffold2158	106105	TT	GG	1947029209
SNP_P4_172405_117066	NW_004517179.1	Scaffold2158	117066	AA	GG	1947029211
SNP_P4_172406_125131	NW_004517179.1	Scaffold2158	125131	AA	GG	1947029213
SNP_P4_172407_125403	NW_004517179.1	Scaffold2158	125403	TT	AA	1947029215
SNP_P4_172408_125726	NW_004517179.1	Scaffold2158	125726	AA	GG	1947029217
SNP_P4_172409_127238	NW_004517179.1	Scaffold2158	127238	TT	GG	1947029219
SNP_P4_172410_127266	NW_004517179.1	Scaffold2158	127266	AA	CC	1947029221
SNP_P4_172411_127276	NW_004517179.1	Scaffold2158	127276	AA	CC	1947029223
SNP_P4_172412_127306	NW_004517179.1	Scaffold2158	127306	TT	GG	1947029225
SNP_P4_172413_151694	NW_004517179.1	Scaffold2158	151694	CC	AA	1947029227
SNP_P4_172414_151701	NW_004517179.1	Scaffold2158	151701	AA	TT	1947029229
SNP_P4_172415_151705	NW_004517179.1	Scaffold2158	151705	TT	GG	1947029231
SNP_P4_172416_151732	NW_004517179.1	Scaffold2158	151732	AA	GG	1947029233
SNP_P4_172417_151737	NW_004517179.1	Scaffold2158	151737	AA	GG	1947029235
SNP_P4_172419_152606	NW_004517179.1	Scaffold2158	152606	CC	TT	1947029237
SNP_P4_172421_178432	NW_004517179.1	Scaffold2158	178432	GG	TT	1947029239
SNP_P4_172422_196621	NW_004517179.1	Scaffold2158	196621	TT	CC	1947029241
SNP_P4_172423_196653	NW_004517179.1	Scaffold2158	196653	TT	CC	1947029243

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_172425_197517	NW_004517179.1	Scaffold2158	197517	TT	CC	1947029247
SNP_P4_172426_197578	NW_004517179.1	Scaffold2158	197578	AA	TT	1947029249
SNP_P4_172427_197582	NW_004517179.1	Scaffold2158	197582	TT	CC	1947029251
SNP_P4_172428_197602	NW_004517179.1	Scaffold2158	197602	TT	CC	1947029253
SNP_P4_172429_197617	NW_004517179.1	Scaffold2158	197617	TT	GG	1947029254
SNP_P4_172430_197820	NW_004517179.1	Scaffold2158	197820	AA	CC	1947029256
SNP_P4_172431_197846	NW_004517179.1	Scaffold2158	197846	AA	TT	1947029258
SNP_P4_172432_204816	NW_004517179.1	Scaffold2158	204816	CC	TT	1947029260
SNP_P4_172433_218631	NW_004517179.1	Scaffold2158	218631	GG	AA	1947029262
SNP_P4_172434_219358	NW_004517179.1	Scaffold2158	219358	TT	CC	1947029264
SNP_P4_172435_6114	NW_004517180.1	Scaffold2160	6114	AA	TT	1947029266
SNP_P4_172436_12971	NW_004517180.1	Scaffold2160	12971	GG	CC	1947029268
SNP_P4_172437_19746	NW_004517180.1	Scaffold2160	19746	CC	TT	1947029270
SNP_P4_172438_23082	NW_004517180.1	Scaffold2160	23082	TT	AA	1947029272
SNP_P4_172439_29333	NW_004517180.1	Scaffold2160	29333	AA	CC	1947029274
SNP_P4_172440_30066	NW_004517180.1	Scaffold2160	30066	TT	CC	1947029276
SNP_P4_172441_30127	NW_004517180.1	Scaffold2160	30127	CC	AA	1947029278
SNP_P4_172442_30764	NW_004517180.1	Scaffold2160	30764	TT	AA	1947029280
SNP_P4_172443_30780	NW_004517180.1	Scaffold2160	30780	AA	CC	1947029282
SNP_P4_172444_30826	NW_004517180.1	Scaffold2160	30826	AA	TT	1947029284
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SNP_P4_172449_33861	NW_004517180.1	Scaffold2160	33861	AA	GG	1947029294
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SNP_P4_172453_59	NW_004517181.1	Scaffold2161	59	AA	GG	1947029302
SNP_P4_172455_64	NW_004517181.1	Scaffold2161	64	AA	GG	1947029304
SNP_P4_172457_133	NW_004517181.1	Scaffold2161	133	TT	CC	1947029306
SNP_P4_172458_142	NW_004517181.1	Scaffold2161	142	TT	CC	1947029308
SNP_P4_172459_7074	NW_004517181.1	Scaffold2161	7074	TT	GG	1947029310
SNP_P4_172460_7491	NW_004517181.1	Scaffold2161	7491	GG	TT	1947029312
SNP_P4_172461_7729	NW_004517181.1	Scaffold2161	7729	TT	CC	1947029314
SNP_P4_172463_8706	NW_004517181.1	Scaffold2161	8706	GG	AA	1947029316
SNP_P4_172464_14303	NW_004517181.1	Scaffold2161	14303	CC	TT	1947029318
SNP_P4_172465_14452	NW_004517181.1	Scaffold2161	14452	TT	CC	1947029320
SNP_P4_172466_14812	NW_004517181.1	Scaffold2161	14812	TT	CC	1947029322
SNP_P4_172467_14814	NW_004517181.1	Scaffold2161	14814	AA	GG	1947029324
SNP_P4_172468_14838	NW_004517181.1	Scaffold2161	14838	AA	CC	1947029326

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_172471_58420	NW_004517181.1	Scaffold2161	58420	AA	TT	1947029332
SNP_P4_172472_58424	NW_004517181.1	Scaffold2161	58424	GG	AA	1947029334
SNP_P4_172473_58425	NW_004517181.1	Scaffold2161	58425	TT	AA	1947029336
SNP_P4_172474_58427	NW_004517181.1	Scaffold2161	58427	TT	GG	1947029338
SNP_P4_172475_73551	NW_004517181.1	Scaffold2161	73551	CC	TT	1947029340
SNP_P4_172476_79120	NW_004517181.1	Scaffold2161	79120	TT	GG	1947029342
SNP_P4_172477_80723	NW_004517181.1	Scaffold2161	80723	GG	AA	1947029345
SNP_P4_172478_94127	NW_004517181.1	Scaffold2161	94127	GG	TT	1947029347
SNP_P4_172479_99775	NW_004517181.1	Scaffold2161	99775	GG	AA	1947029349
SNP_P4_172480_104914	NW_004517181.1	Scaffold2161	104914	TT	CC	1947029351
SNP_P4_172481_106421	NW_004517181.1	Scaffold2161	106421	CC	AA	1947029353
SNP_P4_172482_106432	NW_004517181.1	Scaffold2161	106432	TT	CC	1947029355
SNP_P4_172483_106508	NW_004517181.1	Scaffold2161	106508	TT	CC	1947029357
SNP_P4_172484_106775	NW_004517181.1	Scaffold2161	106775	AA	GG	1947029359
SNP_P4_172485_106865	NW_004517181.1	Scaffold2161	106865	GG	AA	1947029361
SNP_P4_172486_106882	NW_004517181.1	Scaffold2161	106882	TT	CC	1947029363
SNP_P4_172487_106964	NW_004517181.1	Scaffold2161	106964	TT	GG	1947029365
SNP_P4_172488_107097	NW_004517181.1	Scaffold2161	107097	AA	TT	1947029367
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SNP_P4_172493_108867	NW_004517181.1	Scaffold2161	108867	AA	GG	1947029375
SNP_P4_172495_111326	NW_004517181.1	Scaffold2161	111326	GG	AA	1947029377
SNP_P4_172496_111372	NW_004517181.1	Scaffold2161	111372	AA	GG	1947029379
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SNP_P4_172498_121674	NW_004517181.1	Scaffold2161	121674	GG	AA	1947029383
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SNP_P4_172500_126952	NW_004517181.1	Scaffold2161	126952	AA	TT	1947029386
SNP_P4_172501_128537	NW_004517181.1	Scaffold2161	128537	TT	AA	1947029388
SNP_P4_172502_128608	NW_004517181.1	Scaffold2161	128608	GG	AA	1947029390
SNP_P4_172503_128861	NW_004517181.1	Scaffold2161	128861	GG	AA	1947029392
SNP_P4_172504_128965	NW_004517181.1	Scaffold2161	128965	TT	CC	1947029394
SNP_P4_172505_128975	NW_004517181.1	Scaffold2161	128975	AA	GG	1947029396
SNP_P4_172506_157272	NW_004517181.1	Scaffold2161	157272	AA	GG	1947029398
SNP_P4_172508_160242	NW_004517181.1	Scaffold2161	160242	AA	TT	1947029400
SNP_P4_172509_176432	NW_004517181.1	Scaffold2161	176432	AA	GG	1947029402
SNP_P4_172510_176439	NW_004517181.1	Scaffold2161	176439	GG	AA	1947029404
SNP_P4_172511_176442	NW_004517181.1	Scaffold2161	176442	AA	TT	1947029406
SNP_P4_172512_196631	NW_004517181.1	Scaffold2161	196631	AA	GG	1947029408
SNP_P4_172513_196954	NW_004517181.1	Scaffold2161	196954	GG	TT	1947029410

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_172514_196984	NW_004517181.1	Scaffold2161	196984	AA	GG	1947029412
SNP_P4_172515_197082	NW_004517181.1	Scaffold2161	197082	AA	GG	1947029414
SNP_P4_172516_197211	NW_004517181.1	Scaffold2161	197211	CC	TT	1947029416
SNP_P4_172517_197728	NW_004517181.1	Scaffold2161	197728	AA	CC	1947029418
SNP_P4_172518_216110	NW_004517181.1	Scaffold2161	216110	AA	GG	1947029420
SNP_P4_172519_224613	NW_004517181.1	Scaffold2161	224613	GG	AA	1947029422
SNP_P4_172520_224626	NW_004517181.1	Scaffold2161	224626	GG	AA	1947029423
SNP_P4_172521_224679	NW_004517181.1	Scaffold2161	224679	TT	CC	1947029425
SNP_P4_172522_224990	NW_004517181.1	Scaffold2161	224990	TT	CC	1947029427
SNP_P4_172523_225110	NW_004517181.1	Scaffold2161	225110	GG	AA	1947029429
SNP_P4_172524_239850	NW_004517181.1	Scaffold2161	239850	CC	TT	1947029431
SNP_P4_172525_249647	NW_004517181.1	Scaffold2161	249647	AA	TT	1947029433
SNP_P4_172526_263983	NW_004517181.1	Scaffold2161	263983	CC	TT	1947029435
SNP_P4_172527_272370	NW_004517181.1	Scaffold2161	272370	AA	TT	1947029437
SNP_P4_172528_281145	NW_004517181.1	Scaffold2161	281145	CC	TT	1947029439
SNP_P4_172529_8126	NW_004517182.1	Scaffold2163	8126	TT	AA	1947029441
SNP_P4_172530_13333	NW_004517182.1	Scaffold2163	13333	CC	AA	1947029443
SNP_P4_172531_13613	NW_004517182.1	Scaffold2163	13613	CC	TT	1947029445
SNP_P4_172532_16329	NW_004517182.1	Scaffold2163	16329	GG	CC	1947029447
SNP_P4_172533_16398	NW_004517182.1	Scaffold2163	16398	AA	GG	1947029449
SNP_P4_172534_16494	NW_004517182.1	Scaffold2163	16494	TT	CC	1947029451
SNP_P4_172535_29962	NW_004517182.1	Scaffold2163	29962	AA	GG	1947029453
SNP_P4_172536_51029	NW_004517182.1	Scaffold2163	51029	TT	AA	1947029455
SNP_P4_172537_52896	NW_004517182.1	Scaffold2163	52896	AA	TT	1947029457
SNP_P4_172538_53216	NW_004517182.1	Scaffold2163	53216	GG	TT	1947029459
SNP_P4_172539_53516	NW_004517182.1	Scaffold2163	53516	AA	CC	1947029461
SNP_P4_172540_57118	NW_004517182.1	Scaffold2163	57118	TT	AA	1947029463
SNP_P4_172541_58596	NW_004517182.1	Scaffold2163	58596	GG	TT	1947029465
SNP_P4_172542_65043	NW_004517182.1	Scaffold2163	65043	AA	CC	1947029467
SNP_P4_172543_67849	NW_004517182.1	Scaffold2163	67849	AA	CC	1947029469
SNP_P4_172544_69690	NW_004517182.1	Scaffold2163	69690	AA	TT	1947029471
SNP_P4_172545_69706	NW_004517182.1	Scaffold2163	69706	TT	GG	1947029472
SNP_P4_172546_69727	NW_004517182.1	Scaffold2163	69727	CC	GG	1947029474
SNP_P4_172547_69965	NW_004517182.1	Scaffold2163	69965	AA	CC	1947029476
SNP_P4_172548_71191	NW_004517182.1	Scaffold2163	71191	TT	GG	1947029478
SNP_P4_172549_71434	NW_004517182.1	Scaffold2163	71434	CC	AA	1947029480
SNP_P4_172550_71469	NW_004517182.1	Scaffold2163	71469	TT	AA	1947029482
SNP_P4_172552_71491	NW_004517182.1	Scaffold2163	71491	TT	GG	1947029484
SNP_P4_172553_71550	NW_004517182.1	Scaffold2163	71550	CC	AA	1947029486
SNP_P4_172554_71570	NW_004517182.1	Scaffold2163	71570	AA	TT	1947029488
SNP_P4_172555_78127	NW_004517182.1	Scaffold2163	78127	CC	TT	1947029490
SNP_P4_172556_78165	NW_004517182.1	Scaffold2163	78165	GG	AA	1947029492

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_172558_78497	NW_004517182.1	Scaffold2163	78497	TT	CC	1947029496
SNP_P4_172559_78498	NW_004517182.1	Scaffold2163	78498	AA	GG	1947029498
SNP_P4_172560_78546	NW_004517182.1	Scaffold2163	78546	TT	GG	1947029500
SNP_P4_172561_78589	NW_004517182.1	Scaffold2163	78589	AA	TT	1947029502
SNP_P4_172562_78614	NW_004517182.1	Scaffold2163	78614	CC	TT	1947029504
SNP_P4_172564_4847	NW_004517183.1	Scaffold2164	4847	TT	CC	1947029506
SNP_P4_172565_9985	NW_004517183.1	Scaffold2164	9985	TT	CC	1947029509
SNP_P4_172566_16963	NW_004517183.1	Scaffold2164	16963	CC	AA	1947029511
SNP_P4_172567_17000	NW_004517183.1	Scaffold2164	17000	AA	CC	1947029513
SNP_P4_172568_17004	NW_004517183.1	Scaffold2164	17004	CC	TT	1947029515
SNP_P4_172569_17018	NW_004517183.1	Scaffold2164	17018	AA	GG	1947029517
SNP_P4_172570_23427	NW_004517183.1	Scaffold2164	23427	TT	AA	1947029519
SNP_P4_172571_23680	NW_004517183.1	Scaffold2164	23680	GG	AA	1947029521
SNP_P4_172572_29503	NW_004517183.1	Scaffold2164	29503	AA	GG	1947029523
SNP_P4_172573_38915	NW_004517183.1	Scaffold2164	38915	TT	CC	1947029525
SNP_P4_172574_38962	NW_004517183.1	Scaffold2164	38962	TT	GG	1947029527
SNP_P4_172576_59047	NW_004517183.1	Scaffold2164	59047	GG	AA	1947029529
SNP_P4_172577_62887	NW_004517183.1	Scaffold2164	62887	AA	CC	1947029531
SNP_P4_172578_63018	NW_004517183.1	Scaffold2164	63018	AA	GG	1947029533
SNP_P4_172579_65796	NW_004517183.1	Scaffold2164	65796	CC	TT	1947029535
SNP_P4_172580_66168	NW_004517183.1	Scaffold2164	66168	CC	GG	1947029537
SNP_P4_172581_70312	NW_004517183.1	Scaffold2164	70312	CC	TT	1947029539
SNP_P4_172582_71575	NW_004517183.1	Scaffold2164	71575	TT	AA	1947029541
SNP_P4_172583_71609	NW_004517183.1	Scaffold2164	71609	TT	AA	1947029543
SNP_P4_172584_71752	NW_004517183.1	Scaffold2164	71752	GG	AA	1947029545
SNP_P4_172585_80557	NW_004517183.1	Scaffold2164	80557	TT	CC	1947029547
SNP_P4_172586_90383	NW_004517183.1	Scaffold2164	90383	CC	TT	1947029549
SNP_P4_172587_90497	NW_004517183.1	Scaffold2164	90497	AA	CC	1947029551
SNP_P4_172588_90687	NW_004517183.1	Scaffold2164	90687	TT	GG	1947029553
SNP_P4_172589_90733	NW_004517183.1	Scaffold2164	90733	AA	CC	1947029555
SNP_P4_172590_770	NW_004517184.1	Scaffold2166	770	TT	CC	1947029557
SNP_P4_172591_792	NW_004517184.1	Scaffold2166	792	AA	GG	1947029559
SNP_P4_172592_20014	NW_004517184.1	Scaffold2166	20014	CC	TT	1947029561
SNP_P4_172593_20017	NW_004517184.1	Scaffold2166	20017	CC	AA	1947029563
SNP_P4_172594_39729	NW_004517184.1	Scaffold2166	39729	GG	AA	1947029565
SNP_P4_172595_39743	NW_004517184.1	Scaffold2166	39743	TT	CC	1947029567
SNP_P4_172598_84519	NW_004517184.1	Scaffold2166	84519	AA	CC	1947029569
SNP_P4_172599_84520	NW_004517184.1	Scaffold2166	84520	TT	AA	1947029571
SNP_P4_172600_84554	NW_004517184.1	Scaffold2166	84554	CC	TT	1947029573
SNP_P4_172601_84555	NW_004517184.1	Scaffold2166	84555	TT	CC	1947029575
SNP_P4_172602_84556	NW_004517184.1	Scaffold2166	84556	GG	AA	1947029577

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_172606_140438	NW_004517184.1	Scaffold2166	140438	CC	TT	1947029581
SNP_P4_172607_156911	NW_004517184.1	Scaffold2166	156911	GG	TT	1947029583
SNP_P4_172608_161822	NW_004517184.1	Scaffold2166	161822	TT	CC	1947029585
SNP_P4_172610_192467	NW_004517184.1	Scaffold2166	192467	TT	CC	1947029587
SNP_P4_172612_221336	NW_004517184.1	Scaffold2166	221336	CC	TT	1947029589
SNP_P4_172613_10128	NW_004517185.1	Scaffold2168	10128	AA	CC	1947029591
SNP_P4_172614_12312	NW_004517185.1	Scaffold2168	12312	CC	AA	1947029593
SNP_P4_172615_12319	NW_004517185.1	Scaffold2168	12319	CC	AA	1947029595
SNP_P4_172616_12761	NW_004517185.1	Scaffold2168	12761	AA	TT	1947029597
SNP_P4_172617_12841	NW_004517185.1	Scaffold2168	12841	CC	AA	1947029599
SNP_P4_172618_13132	NW_004517185.1	Scaffold2168	13132	AA	CC	1947029601
SNP_P4_172619_13143	NW_004517185.1	Scaffold2168	13143	AA	TT	1947029603
SNP_P4_172620_13188	NW_004517185.1	Scaffold2168	13188	GG	AA	1947029605
SNP_P4_172621_13206	NW_004517185.1	Scaffold2168	13206	AA	GG	1947029607
SNP_P4_172622_15183	NW_004517185.1	Scaffold2168	15183	AA	CC	1947029609
SNP_P4_172623_15185	NW_004517185.1	Scaffold2168	15185	GG	AA	1947029612
SNP_P4_172624_15864	NW_004517185.1	Scaffold2168	15864	CC	TT	1947029614
SNP_P4_172625_15891	NW_004517185.1	Scaffold2168	15891	CC	TT	1947029616
SNP_P4_172626_330	NW_004517186.1	Scaffold2169	330	TT	AA	1947029618
SNP_P4_172627_2727	NW_004517187.1	Scaffold2170	2727	TT	CC	1947029620
SNP_P4_172628_2919	NW_004517187.1	Scaffold2170	2919	CC	GG	1947029622
SNP_P4_172629_3185	NW_004517187.1	Scaffold2170	3185	CC	TT	1947029624
SNP_P4_172630_3187	NW_004517187.1	Scaffold2170	3187	CC	TT	1947029626
SNP_P4_172631_3249	NW_004517187.1	Scaffold2170	3249	GG	AA	1947029628
SNP_P4_172632_3307	NW_004517187.1	Scaffold2170	3307	GG	AA	1947029630
SNP_P4_172633_3349	NW_004517187.1	Scaffold2170	3349	AA	GG	1947029632
SNP_P4_172634_3512	NW_004517187.1	Scaffold2170	3512	AA	GG	1947029634
SNP_P4_172635_3579	NW_004517187.1	Scaffold2170	3579	GG	AA	1947029636
SNP_P4_172636_3817	NW_004517187.1	Scaffold2170	3817	GG	AA	1947029638
SNP_P4_172637_4279	NW_004517187.1	Scaffold2170	4279	CC	GG	1947029640
SNP_P4_172638_4498	NW_004517187.1	Scaffold2170	4498	GG	AA	1947029642
SNP_P4_172639_4672	NW_004517187.1	Scaffold2170	4672	GG	CC	1947029644
SNP_P4_172640_4761	NW_004517187.1	Scaffold2170	4761	GG	AA	1947029646
SNP_P4_172641_4821	NW_004517187.1	Scaffold2170	4821	AA	GG	1947029648
SNP_P4_172644_5536	NW_004517187.1	Scaffold2170	5536	GG	TT	1947029650
SNP_P4_172645_6265	NW_004517187.1	Scaffold2170	6265	TT	CC	1947029652
SNP_P4_172646_6409	NW_004517187.1	Scaffold2170	6409	TT	GG	1947029654
SNP_P4_172647_6558	NW_004517187.1	Scaffold2170	6558	GG	AA	1947029656
SNP_P4_172648_6593	NW_004517187.1	Scaffold2170	6593	AA	GG	1947029658
SNP_P4_172649_6597	NW_004517187.1	Scaffold2170	6597	GG	CC	1947029660
SNP_P4_172650_6599	NW_004517187.1	Scaffold2170	6599	AA	GG	1947029662

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_172653_6929	NW_004517187.1	Scaffold2170	6929	AA	GG	1947029666
SNP_P4_172654_7055	NW_004517187.1	Scaffold2170	7055	GG	TT	1947029668
SNP_P4_172655_7161	NW_004517187.1	Scaffold2170	7161	AA	GG	1947029670
SNP_P4_172656_7287	NW_004517187.1	Scaffold2170	7287	AA	GG	1947029672
SNP_P4_172657_7475	NW_004517187.1	Scaffold2170	7475	CC	AA	1947029674
SNP_P4_172658_7529	NW_004517187.1	Scaffold2170	7529	CC	TT	1947029676
SNP_P4_172659_7691	NW_004517187.1	Scaffold2170	7691	CC	TT	1947029678
SNP_P4_172660_9667	NW_004517187.1	Scaffold2170	9667	TT	AA	1947029680
SNP_P4_172661_9775	NW_004517187.1	Scaffold2170	9775	TT	CC	1947029682
SNP_P4_172662_11824	NW_004517187.1	Scaffold2170	11824	CC	TT	1947029684
SNP_P4_172663_11912	NW_004517187.1	Scaffold2170	11912	CC	TT	1947029686
SNP_P4_172664_11938	NW_004517187.1	Scaffold2170	11938	TT	CC	1947029688
SNP_P4_172665_12252	NW_004517187.1	Scaffold2170	12252	CC	TT	1947029690
SNP_P4_172667_12356	NW_004517187.1	Scaffold2170	12356	AA	GG	1947029692
SNP_P4_172668_12433	NW_004517187.1	Scaffold2170	12433	CC	TT	1947029694
SNP_P4_172669_12658	NW_004517187.1	Scaffold2170	12658	TT	AA	1947029696
SNP_P4_172670_13232	NW_004517187.1	Scaffold2170	13232	AA	GG	1947029698
SNP_P4_172671_14090	NW_004517187.1	Scaffold2170	14090	CC	TT	1947029700
SNP_P4_172673_14545	NW_004517187.1	Scaffold2170	14545	GG	AA	1947029702
SNP_P4_172674_37278	NW_004517187.1	Scaffold2170	37278	TT	CC	1947029704
SNP_P4_172675_37914	NW_004517187.1	Scaffold2170	37914	CC	TT	1947029706
SNP_P4_172676_38031	NW_004517187.1	Scaffold2170	38031	CC	TT	1947029708
SNP_P4_172677_38051	NW_004517187.1	Scaffold2170	38051	TT	GG	1947029710
SNP_P4_172679_38441	NW_004517187.1	Scaffold2170	38441	CC	GG	1947029712
SNP_P4_172680_38462	NW_004517187.1	Scaffold2170	38462	TT	AA	1947029714
SNP_P4_172681_38657	NW_004517187.1	Scaffold2170	38657	CC	TT	1947029716
SNP_P4_172682_1810	NW_004517189.1	Scaffold2173	1810	CC	AA	1947029718
SNP_P4_172683_1838	NW_004517189.1	Scaffold2173	1838	TT	AA	1947029720
SNP_P4_172684_1847	NW_004517189.1	Scaffold2173	1847	GG	TT	1947029722
SNP_P4_172685_1944	NW_004517189.1	Scaffold2173	1944	AA	GG	1947029724
SNP_P4_172686_2040	NW_004517189.1	Scaffold2173	2040	GG	AA	1947029725
SNP_P4_172687_2099	NW_004517189.1	Scaffold2173	2099	CC	AA	1947029726
SNP_P4_172688_2257	NW_004517189.1	Scaffold2173	2257	AA	GG	1947029728
SNP_P4_172689_2298	NW_004517189.1	Scaffold2173	2298	CC	AA	1947029730
SNP_P4_172690_2301	NW_004517189.1	Scaffold2173	2301	GG	AA	1947029732
SNP_P4_172691_2341	NW_004517189.1	Scaffold2173	2341	TT	CC	1947029733
SNP_P4_172692_2379	NW_004517189.1	Scaffold2173	2379	AA	GG	1947029735
SNP_P4_172693_2419	NW_004517189.1	Scaffold2173	2419	CC	TT	1947029737
SNP_P4_172694_2425	NW_004517189.1	Scaffold2173	2425	TT	AA	1947029739
SNP_P4_172695_2650	NW_004517189.1	Scaffold2173	2650	TT	CC	1947029741
SNP_P4_172696_2663	NW_004517189.1	Scaffold2173	2663	TT	AA	1947029743

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_172698_6683	NW_004517189.1	Scaffold2173	6683	TT	CC	1947029747
SNP_P4_172699_6760	NW_004517189.1	Scaffold2173	6760	AA	TT	1947029749
SNP_P4_172700_6761	NW_004517189.1	Scaffold2173	6761	CC	TT	1947029751
SNP_P4_172701_6787	NW_004517189.1	Scaffold2173	6787	CC	TT	1947029753
SNP_P4_172702_6924	NW_004517189.1	Scaffold2173	6924	CC	GG	1947029755
SNP_P4_172703_6961	NW_004517189.1	Scaffold2173	6961	TT	CC	1947029757
SNP_P4_172704_6974	NW_004517189.1	Scaffold2173	6974	CC	GG	1947029759
SNP_P4_172705_7008	NW_004517189.1	Scaffold2173	7008	AA	TT	1947029761
SNP_P4_172706_7024	NW_004517189.1	Scaffold2173	7024	CC	TT	1947029762
SNP_P4_172707_7077	NW_004517189.1	Scaffold2173	7077	AA	TT	1947029764
SNP_P4_172708_7116	NW_004517189.1	Scaffold2173	7116	CC	GG	1947029766
SNP_P4_172709_7157	NW_004517189.1	Scaffold2173	7157	AA	CC	1947029768
SNP_P4_172710_7290	NW_004517189.1	Scaffold2173	7290	AA	TT	1947029770
SNP_P4_172711_7748	NW_004517189.1	Scaffold2173	7748	AA	TT	1947029772
SNP_P4_172712_10663	NW_004517189.1	Scaffold2173	10663	GG	CC	1947029774
SNP_P4_172713_10670	NW_004517189.1	Scaffold2173	10670	AA	GG	1947029776
SNP_P4_172714_10716	NW_004517189.1	Scaffold2173	10716	GG	CC	1947029778
SNP_P4_172715_10765	NW_004517189.1	Scaffold2173	10765	AA	TT	1947029780
SNP_P4_172716_11060	NW_004517189.1	Scaffold2173	11060	TT	AA	1947029782
SNP_P4_172717_11083	NW_004517189.1	Scaffold2173	11083	CC	AA	1947029784
SNP_P4_172718_11084	NW_004517189.1	Scaffold2173	11084	TT	CC	1947029786
SNP_P4_172719_15863	NW_004517189.1	Scaffold2173	15863	GG	TT	1947029788
SNP_P4_172720_15868	NW_004517189.1	Scaffold2173	15868	AA	CC	1947029790
SNP_P4_172721_15869	NW_004517189.1	Scaffold2173	15869	CC	AA	1947029791
SNP_P4_172722_15901	NW_004517189.1	Scaffold2173	15901	CC	TT	1947029793
SNP_P4_172723_15903	NW_004517189.1	Scaffold2173	15903	AA	CC	1947029795
SNP_P4_172724_16334	NW_004517189.1	Scaffold2173	16334	AA	CC	1947029797
SNP_P4_172725_18368	NW_004517189.1	Scaffold2173	18368	AA	GG	1947029799
SNP_P4_172726_18377	NW_004517189.1	Scaffold2173	18377	AA	GG	1947029801
SNP_P4_172727_18383	NW_004517189.1	Scaffold2173	18383	GG	AA	1947029803
SNP_P4_172728_18397	NW_004517189.1	Scaffold2173	18397	GG	TT	1947029805
SNP_P4_172729_18406	NW_004517189.1	Scaffold2173	18406	GG	AA	1947029807
SNP_P4_172730_18460	NW_004517189.1	Scaffold2173	18460	CC	AA	1947029809
SNP_P4_172731_18490	NW_004517189.1	Scaffold2173	18490	CC	TT	1947029811
SNP_P4_172732_18529	NW_004517189.1	Scaffold2173	18529	GG	CC	1947029813
SNP_P4_172733_18585	NW_004517189.1	Scaffold2173	18585	GG	CC	1947029815
SNP_P4_172734_18603	NW_004517189.1	Scaffold2173	18603	CC	AA	1947029817
SNP_P4_172735_18875	NW_004517189.1	Scaffold2173	18875	TT	CC	1947029819
SNP_P4_172736_18941	NW_004517189.1	Scaffold2173	18941	CC	GG	1947029821
SNP_P4_172737_18979	NW_004517189.1	Scaffold2173	18979	TT	AA	1947029823
SNP_P4_172738_18981	NW_004517189.1	Scaffold2173	18981	AA	CC	1947029825

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_172740_19014	NW_004517189.1	Scaffold2173	19014	TT	AA	1947029829
SNP_P4_172741_19044	NW_004517189.1	Scaffold2173	19044	TT	AA	1947029831
SNP_P4_172742_19045	NW_004517189.1	Scaffold2173	19045	TT	AA	1947029833
SNP_P4_172743_19046	NW_004517189.1	Scaffold2173	19046	GG	TT	1947029835
SNP_P4_172744_19047	NW_004517189.1	Scaffold2173	19047	TT	GG	1947029837
SNP_P4_172745_19048	NW_004517189.1	Scaffold2173	19048	GG	AA	1947029839
SNP_P4_172746_19051	NW_004517189.1	Scaffold2173	19051	GG	AA	1947029841
SNP_P4_172747_19112	NW_004517189.1	Scaffold2173	19112	CC	GG	1947029843
SNP_P4_172748_19130	NW_004517189.1	Scaffold2173	19130	AA	GG	1947029845
SNP_P4_172749_19254	NW_004517189.1	Scaffold2173	19254	AA	GG	1947029847
SNP_P4_172750_19273	NW_004517189.1	Scaffold2173	19273	GG	CC	1947029849
SNP_P4_172751_19284	NW_004517189.1	Scaffold2173	19284	TT	CC	1947029850
SNP_P4_172752_19597	NW_004517189.1	Scaffold2173	19597	GG	CC	1947029852
SNP_P4_172754_19633	NW_004517189.1	Scaffold2173	19633	TT	AA	1947029854
SNP_P4_172755_19731	NW_004517189.1	Scaffold2173	19731	AA	GG	1947029856
SNP_P4_172756_19749	NW_004517189.1	Scaffold2173	19749	AA	TT	1947029858
SNP_P4_172757_19754	NW_004517189.1	Scaffold2173	19754	AA	TT	1947029860
SNP_P4_172758_19763	NW_004517189.1	Scaffold2173	19763	AA	GG	1947029862
SNP_P4_172759_19816	NW_004517189.1	Scaffold2173	19816	TT	AA	1947029864
SNP_P4_172760_19817	NW_004517189.1	Scaffold2173	19817	TT	GG	1947029866
SNP_P4_172762_19918	NW_004517189.1	Scaffold2173	19918	AA	GG	1947029868
SNP_P4_172763_19947	NW_004517189.1	Scaffold2173	19947	CC	TT	1947029870
SNP_P4_172764_19953	NW_004517189.1	Scaffold2173	19953	AA	CC	1947029872
SNP_P4_172765_19990	NW_004517189.1	Scaffold2173	19990	AA	GG	1947029873
SNP_P4_172766_20246	NW_004517189.1	Scaffold2173	20246	CC	AA	1947029875
SNP_P4_172767_20272	NW_004517189.1	Scaffold2173	20272	AA	GG	1947029877
SNP_P4_172768_20293	NW_004517189.1	Scaffold2173	20293	CC	AA	1947029879
SNP_P4_172769_20325	NW_004517189.1	Scaffold2173	20325	CC	TT	1947029881
SNP_P4_172770_20416	NW_004517189.1	Scaffold2173	20416	TT	GG	1947029883
SNP_P4_172771_20454	NW_004517189.1	Scaffold2173	20454	TT	GG	1947029885
SNP_P4_172772_20455	NW_004517189.1	Scaffold2173	20455	TT	AA	1947029887
SNP_P4_172773_20456	NW_004517189.1	Scaffold2173	20456	AA	CC	1947029889
SNP_P4_172774_20461	NW_004517189.1	Scaffold2173	20461	AA	TT	1947029891
SNP_P4_172775_20468	NW_004517189.1	Scaffold2173	20468	TT	AA	1947029893
SNP_P4_172776_20496	NW_004517189.1	Scaffold2173	20496	CC	GG	1947029895
SNP_P4_172777_20562	NW_004517189.1	Scaffold2173	20562	GG	AA	1947029897
SNP_P4_172778_20575	NW_004517189.1	Scaffold2173	20575	TT	AA	1947029899
SNP_P4_172779_20584	NW_004517189.1	Scaffold2173	20584	TT	CC	1947029901
SNP_P4_172780_20586	NW_004517189.1	Scaffold2173	20586	CC	GG	1947029903
SNP_P4_172781_20597	NW_004517189.1	Scaffold2173	20597	TT	AA	1947029905
SNP_P4_172782_20675	NW_004517189.1	Scaffold2173	20675	AA	GG	1947029907

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_172784_20823	NW_004517189.1	Scaffold2173	20823	CC	GG	1947029911
SNP_P4_172785_20841	NW_004517189.1	Scaffold2173	20841	CC	GG	1947029913
SNP_P4_172786_20846	NW_004517189.1	Scaffold2173	20846	AA	GG	1947029915
SNP_P4_172787_21006	NW_004517189.1	Scaffold2173	21006	AA	GG	1947029917
SNP_P4_172788_23748	NW_004517189.1	Scaffold2173	23748	AA	CC	1947029918
SNP_P4_172789_52036	NW_004517189.1	Scaffold2173	52036	TT	CC	1947029920
SNP_P4_172790_54816	NW_004517189.1	Scaffold2173	54816	GG	TT	1947029922
SNP_P4_172791_54862	NW_004517189.1	Scaffold2173	54862	TT	CC	1947029924
SNP_P4_172792_55230	NW_004517189.1	Scaffold2173	55230	TT	CC	1947029926
SNP_P4_172793_55343	NW_004517189.1	Scaffold2173	55343	AA	CC	1947029928
SNP_P4_172794_55375	NW_004517189.1	Scaffold2173	55375	AA	TT	1947029930
SNP_P4_172795_55984	NW_004517189.1	Scaffold2173	55984	GG	TT	1947029932
SNP_P4_172796_56189	NW_004517189.1	Scaffold2173	56189	AA	GG	1947029934
SNP_P4_172798_56289	NW_004517189.1	Scaffold2173	56289	AA	GG	1947029936
SNP_P4_172799_56428	NW_004517189.1	Scaffold2173	56428	GG	TT	1947029938
SNP_P4_172800_56504	NW_004517189.1	Scaffold2173	56504	GG	TT	1947029940
SNP_P4_172802_70492	NW_004517189.1	Scaffold2173	70492	AA	GG	1947029942
SNP_P4_172803_70495	NW_004517189.1	Scaffold2173	70495	CC	GG	1947029944
SNP_P4_172804_80353	NW_004517189.1	Scaffold2173	80353	AA	GG	1947029946
SNP_P4_172805_84614	NW_004517189.1	Scaffold2173	84614	TT	CC	1947029948
SNP_P4_172806_87074	NW_004517189.1	Scaffold2173	87074	TT	CC	1947029950
SNP_P4_172807_88660	NW_004517189.1	Scaffold2173	88660	GG	CC	1947029952
SNP_P4_172808_89272	NW_004517189.1	Scaffold2173	89272	AA	CC	1947029954
SNP_P4_172809_90491	NW_004517189.1	Scaffold2173	90491	TT	CC	1947029956
SNP_P4_172810_90492	NW_004517189.1	Scaffold2173	90492	GG	AA	1947029958
SNP_P4_172811_90493	NW_004517189.1	Scaffold2173	90493	AA	CC	1947029960
SNP_P4_172812_90496	NW_004517189.1	Scaffold2173	90496	TT	CC	1947029962
SNP_P4_172813_90502	NW_004517189.1	Scaffold2173	90502	TT	GG	1947029964
SNP_P4_172814_90538	NW_004517189.1	Scaffold2173	90538	AA	GG	1947029966
SNP_P4_172815_1177	NW_004517190.1	Scaffold2174	1177	AA	CC	1947029968
SNP_P4_172816_6352	NW_004517192.1	Scaffold2176	6352	AA	TT	1947029970
SNP_P4_172817_6564	NW_004517192.1	Scaffold2176	6564	TT	GG	1947029971
SNP_P4_172818_6690	NW_004517192.1	Scaffold2176	6690	CC	GG	1947029973
SNP_P4_172819_6715	NW_004517192.1	Scaffold2176	6715	CC	GG	1947029975
SNP_P4_172820_6760	NW_004517192.1	Scaffold2176	6760	GG	TT	1947029977
SNP_P4_172821_9047	NW_004517192.1	Scaffold2176	9047	GG	TT	1947029979
SNP_P4_172822_10440	NW_004517192.1	Scaffold2176	10440	CC	TT	1947029981
SNP_P4_172823_10688	NW_004517192.1	Scaffold2176	10688	GG	TT	1947029983
SNP_P4_172824_10723	NW_004517192.1	Scaffold2176	10723	TT	CC	1947029985
SNP_P4_172825_18301	NW_004517192.1	Scaffold2176	18301	GG	AA	1947029987
SNP_P4_172826_18485	NW_004517192.1	Scaffold2176	18485	GG	AA	1947029989

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_172828_23855	NW_004517192.1	Scaffold2176	23855	CC	AA	1947029993
SNP_P4_172829_24413	NW_004517192.1	Scaffold2176	24413	TT	CC	1947029995
SNP_P4_172830_24724	NW_004517192.1	Scaffold2176	24724	TT	AA	1947029997
SNP_P4_172831_24758	NW_004517192.1	Scaffold2176	24758	GG	AA	1947029999
SNP_P4_172832_24767	NW_004517192.1	Scaffold2176	24767	AA	GG	1947030001
SNP_P4_172833_26447	NW_004517192.1	Scaffold2176	26447	GG	TT	1947030003
SNP_P4_172834_26556	NW_004517192.1	Scaffold2176	26556	AA	CC	1947030005
SNP_P4_172835_26865	NW_004517192.1	Scaffold2176	26865	CC	TT	1947030007
SNP_P4_172836_27408	NW_004517192.1	Scaffold2176	27408	CC	AA	1947030009
SNP_P4_172837_28942	NW_004517192.1	Scaffold2176	28942	CC	AA	1947030011
SNP_P4_172838_29076	NW_004517192.1	Scaffold2176	29076	GG	AA	1947030013
SNP_P4_172839_31378	NW_004517192.1	Scaffold2176	31378	AA	TT	1947030015
SNP_P4_172840_31810	NW_004517192.1	Scaffold2176	31810	CC	GG	1947030017
SNP_P4_172841_1911	NW_004517193.1	Scaffold2177	1911	TT	CC	1947030019
SNP_P4_172842_1920	NW_004517193.1	Scaffold2177	1920	CC	TT	1947030021
SNP_P4_172843_1994	NW_004517193.1	Scaffold2177	1994	TT	CC	1947030023
SNP_P4_172844_2015	NW_004517193.1	Scaffold2177	2015	CC	AA	1947030025
SNP_P4_172845_2034	NW_004517193.1	Scaffold2177	2034	TT	AA	1947030026
SNP_P4_172846_2055	NW_004517193.1	Scaffold2177	2055	TT	AA	1947030028
SNP_P4_172847_2199	NW_004517193.1	Scaffold2177	2199	GG	AA	1947030030
SNP_P4_172848_2235	NW_004517193.1	Scaffold2177	2235	AA	GG	1947030032
SNP_P4_172849_2242	NW_004517193.1	Scaffold2177	2242	TT	CC	1947030034
SNP_P4_172850_2476	NW_004517193.1	Scaffold2177	2476	TT	CC	1947030036
SNP_P4_172851_2789	NW_004517193.1	Scaffold2177	2789	CC	TT	1947030038
SNP_P4_172852_2874	NW_004517193.1	Scaffold2177	2874	TT	AA	1947030040
SNP_P4_172853_2880	NW_004517193.1	Scaffold2177	2880	AA	GG	1947030042
SNP_P4_172854_6350	NW_004517193.1	Scaffold2177	6350	AA	GG	1947030044
SNP_P4_172855_6374	NW_004517193.1	Scaffold2177	6374	AA	TT	1947030046
SNP_P4_172856_10302	NW_004517193.1	Scaffold2177	10302	TT	GG	1947030048
SNP_P4_172857_10867	NW_004517193.1	Scaffold2177	10867	GG	AA	1947030050
SNP_P4_172858_79	NW_004517195.1	Scaffold2179	79	TT	CC	1947030052
SNP_P4_172859_113	NW_004517195.1	Scaffold2179	113	AA	TT	1947030054
SNP_P4_172860_121	NW_004517195.1	Scaffold2179	121	GG	AA	1947030056
SNP_P4_172861_134	NW_004517195.1	Scaffold2179	134	TT	CC	1947030058
SNP_P4_172863_463	NW_004517195.1	Scaffold2179	463	AA	GG	1947030060
SNP_P4_172864_465	NW_004517195.1	Scaffold2179	465	TT	CC	1947030062
SNP_P4_172865_513	NW_004517195.1	Scaffold2179	513	CC	TT	1947030064
SNP_P4_172868_24503	NW_004517195.1	Scaffold2179	24503	TT	AA	1947030066
SNP_P4_172869_24530	NW_004517195.1	Scaffold2179	24530	CC	TT	1947030068
SNP_P4_172870_24584	NW_004517195.1	Scaffold2179	24584	TT	CC	1947030069
SNP_P4_172871_24917	NW_004517195.1	Scaffold2179	24917	AA	GG	1947030071

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_172874_26270	NW_004517195.1	Scaffold2179	26270	AA	GG	1947030077
SNP_P4_172875_26273	NW_004517195.1	Scaffold2179	26273	AA	GG	1947030079
SNP_P4_172876_26303	NW_004517195.1	Scaffold2179	26303	AA	GG	1947030081
SNP_P4_172877_28128	NW_004517195.1	Scaffold2179	28128	TT	GG	1947030083
SNP_P4_172879_34990	NW_004517195.1	Scaffold2179	34990	CC	GG	1947030085
SNP_P4_172880_35517	NW_004517195.1	Scaffold2179	35517	TT	CC	1947030087
SNP_P4_172881_35703	NW_004517195.1	Scaffold2179	35703	AA	TT	1947030089
SNP_P4_172882_35730	NW_004517195.1	Scaffold2179	35730	AA	GG	1947030091
SNP_P4_172883_35747	NW_004517195.1	Scaffold2179	35747	TT	CC	1947030093
SNP_P4_172884_35893	NW_004517195.1	Scaffold2179	35893	AA	GG	1947030095
SNP_P4_172887_36022	NW_004517195.1	Scaffold2179	36022	GG	AA	1947030097
SNP_P4_172888_36034	NW_004517195.1	Scaffold2179	36034	TT	CC	1947030099
SNP_P4_172889_36044	NW_004517195.1	Scaffold2179	36044	AA	GG	1947030101
SNP_P4_172891_36100	NW_004517195.1	Scaffold2179	36100	GG	AA	1947030103
SNP_P4_172892_36166	NW_004517195.1	Scaffold2179	36166	AA	GG	1947030105
SNP_P4_172893_36177	NW_004517195.1	Scaffold2179	36177	AA	GG	1947030107
SNP_P4_172894_36182	NW_004517195.1	Scaffold2179	36182	CC	GG	1947030109
SNP_P4_172895_36337	NW_004517195.1	Scaffold2179	36337	AA	GG	1947030111
SNP_P4_172896_36362	NW_004517195.1	Scaffold2179	36362	AA	GG	1947030113
SNP_P4_172897_36371	NW_004517195.1	Scaffold2179	36371	AA	GG	1947030115
SNP_P4_172898_36392	NW_004517195.1	Scaffold2179	36392	CC	TT	1947030116
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SNP_P4_172900_36475	NW_004517195.1	Scaffold2179	36475	TT	CC	1947030120
SNP_P4_172901_36517	NW_004517195.1	Scaffold2179	36517	TT	CC	1947030122
SNP_P4_172902_38323	NW_004517195.1	Scaffold2179	38323	TT	CC	1947030124
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SNP_P4_172905_57269	NW_004517195.1	Scaffold2179	57269	CC	TT	1947030130
SNP_P4_172906_57283	NW_004517195.1	Scaffold2179	57283	TT	AA	1947030131
SNP_P4_172907_57300	NW_004517195.1	Scaffold2179	57300	GG	AA	1947030133
SNP_P4_172908_58579	NW_004517195.1	Scaffold2179	58579	AA	GG	1947030135
SNP_P4_172909_58584	NW_004517195.1	Scaffold2179	58584	CC	TT	1947030137
SNP_P4_172910_58672	NW_004517195.1	Scaffold2179	58672	GG	TT	1947030139
SNP_P4_172911_60789	NW_004517195.1	Scaffold2179	60789	GG	AA	1947030141
SNP_P4_172912_67071	NW_004517195.1	Scaffold2179	67071	AA	CC	1947030143
SNP_P4_172914_82068	NW_004517195.1	Scaffold2179	82068	AA	GG	1947030145
SNP_P4_172915_82366	NW_004517195.1	Scaffold2179	82366	TT	CC	1947030147
SNP_P4_172916_82379	NW_004517195.1	Scaffold2179	82379	AA	CC	1947030149
SNP_P4_172917_82387	NW_004517195.1	Scaffold2179	82387	AA	CC	1947030151
SNP_P4_172918_94891	NW_004517195.1	Scaffold2179	94891	TT	CC	1947030153

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_172920_164	NW_004517199.1	Scaffold2183	164	GG	AA	1947030157
SNP_P4_172921_173	NW_004517199.1	Scaffold2183	173	CC	TT	1947030159
SNP_P4_172922_378	NW_004517199.1	Scaffold2183	378	TT	GG	1947030160
SNP_P4_172923_623	NW_004517199.1	Scaffold2183	623	AA	CC	1947030162
SNP_P4_172924_650	NW_004517199.1	Scaffold2183	650	AA	GG	1947030164
SNP_P4_172925_672	NW_004517199.1	Scaffold2183	672	TT	CC	1947030166
SNP_P4_172926_830	NW_004517199.1	Scaffold2183	830	TT	AA	1947030168
SNP_P4_172927_832	NW_004517199.1	Scaffold2183	832	TT	AA	1947030170
SNP_P4_172928_4171	NW_004517199.1	Scaffold2183	4171	AA	CC	1947030172
SNP_P4_172930_4463	NW_004517199.1	Scaffold2183	4463	TT	CC	1947030174
SNP_P4_172931_4499	NW_004517199.1	Scaffold2183	4499	TT	CC	1947030176
SNP_P4_172932_4590	NW_004517199.1	Scaffold2183	4590	TT	CC	1947030178
SNP_P4_172933_5550	NW_004517199.1	Scaffold2183	5550	CC	TT	1947030179
SNP_P4_172934_5565	NW_004517199.1	Scaffold2183	5565	AA	GG	1947030181
SNP_P4_172935_6088	NW_004517199.1	Scaffold2183	6088	CC	GG	1947030183
SNP_P4_172936_6099	NW_004517199.1	Scaffold2183	6099	AA	CC	1947030185
SNP_P4_172937_6268	NW_004517199.1	Scaffold2183	6268	TT	CC	1947030187
SNP_P4_172938_6297	NW_004517199.1	Scaffold2183	6297	TT	CC	1947030189
SNP_P4_172939_6478	NW_004517199.1	Scaffold2183	6478	CC	AA	1947030191
SNP_P4_172940_6491	NW_004517199.1	Scaffold2183	6491	GG	AA	1947030193
SNP_P4_172941_7213	NW_004517199.1	Scaffold2183	7213	TT	CC	1947030195
SNP_P4_172942_12310	NW_004517199.1	Scaffold2183	12310	GG	TT	1947030197
SNP_P4_172943_12360	NW_004517199.1	Scaffold2183	12360	TT	AA	1947030199
SNP_P4_172944_14861	NW_004517199.1	Scaffold2183	14861	TT	AA	1947030201
SNP_P4_172945_14964	NW_004517199.1	Scaffold2183	14964	TT	GG	1947030203
SNP_P4_172946_15087	NW_004517199.1	Scaffold2183	15087	GG	TT	1947030205
SNP_P4_172947_16796	NW_004517199.1	Scaffold2183	16796	GG	AA	1947030207
SNP_P4_172948_16870	NW_004517199.1	Scaffold2183	16870	TT	CC	1947030208
SNP_P4_172950_18363	NW_004517199.1	Scaffold2183	18363	CC	TT	1947030210
SNP_P4_172951_18989	NW_004517199.1	Scaffold2183	18989	GG	AA	1947030213
SNP_P4_172952_19123	NW_004517199.1	Scaffold2183	19123	AA	CC	1947030215
SNP_P4_172953_19156	NW_004517199.1	Scaffold2183	19156	GG	CC	1947030217
SNP_P4_172954_19166	NW_004517199.1	Scaffold2183	19166	AA	GG	1947030219
SNP_P4_172955_19201	NW_004517199.1	Scaffold2183	19201	CC	TT	1947030221
SNP_P4_172956_19354	NW_004517199.1	Scaffold2183	19354	CC	GG	1947030222
SNP_P4_172957_19358	NW_004517199.1	Scaffold2183	19358	AA	GG	1947030224
SNP_P4_172958_19473	NW_004517199.1	Scaffold2183	19473	TT	CC	1947030226
SNP_P4_172959_19500	NW_004517199.1	Scaffold2183	19500	TT	AA	1947030228
SNP_P4_172960_19526	NW_004517199.1	Scaffold2183	19526	AA	TT	1947030230
SNP_P4_172961_19625	NW_004517199.1	Scaffold2183	19625	GG	TT	1947030232
SNP_P4_172962_19740	NW_004517199.1	Scaffold2183	19740	AA	CC	1947030234

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_172965_19871	NW_004517199.1	Scaffold2183	19871	TT	AA	1947030240
SNP_P4_172967_19972	NW_004517199.1	Scaffold2183	19972	GG	AA	1947030242
SNP_P4_172968_19977	NW_004517199.1	Scaffold2183	19977	CC	TT	1947030244
SNP_P4_172969_20103	NW_004517199.1	Scaffold2183	20103	CC	TT	1947030246
SNP_P4_172970_20164	NW_004517199.1	Scaffold2183	20164	AA	GG	1947030248
SNP_P4_172971_20167	NW_004517199.1	Scaffold2183	20167	GG	AA	1947030250
SNP_P4_172972_20170	NW_004517199.1	Scaffold2183	20170	AA	CC	1947030252
SNP_P4_172973_20178	NW_004517199.1	Scaffold2183	20178	CC	TT	1947030254
SNP_P4_172974_20406	NW_004517199.1	Scaffold2183	20406	AA	TT	1947030256
SNP_P4_172975_23730	NW_004517199.1	Scaffold2183	23730	AA	CC	1947030258
SNP_P4_172976_23757	NW_004517199.1	Scaffold2183	23757	TT	CC	1947030260
SNP_P4_172977_23760	NW_004517199.1	Scaffold2183	23760	TT	AA	1947030262
SNP_P4_172978_23907	NW_004517199.1	Scaffold2183	23907	GG	TT	1947030264
SNP_P4_172979_24072	NW_004517199.1	Scaffold2183	24072	GG	TT	1947030266
SNP_P4_172980_24253	NW_004517199.1	Scaffold2183	24253	AA	GG	1947030268
SNP_P4_172981_27464	NW_004517199.1	Scaffold2183	27464	TT	CC	1947030270
SNP_P4_172982_27852	NW_004517199.1	Scaffold2183	27852	GG	AA	1947030272
SNP_P4_172983_28436	NW_004517199.1	Scaffold2183	28436	AA	CC	1947030273
SNP_P4_172984_28476	NW_004517199.1	Scaffold2183	28476	TT	CC	1947030274
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SNP_P4_172987_30195	NW_004517199.1	Scaffold2183	30195	CC	TT	1947030276
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SNP_P4_172989_31972	NW_004517199.1	Scaffold2183	31972	GG	AA	1947030279
SNP_P4_172990_32034	NW_004517199.1	Scaffold2183	32034	AA	TT	1947030281
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SNP_P4_173003_39186	NW_004517199.1	Scaffold2183	39186	GG	AA	1947030306
SNP_P4_173004_39407	NW_004517199.1	Scaffold2183	39407	AA	CC	1947030308
SNP_P4_173005_40099	NW_004517199.1	Scaffold2183	40099	GG	TT	1947030310
SNP_P4_173006_40680	NW_004517199.1	Scaffold2183	40680	TT	CC	1947030312

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_173008_41021	NW_004517199.1	Scaffold2183	41021	GG	TT	1947030316
SNP_P4_173009_41057	NW_004517199.1	Scaffold2183	41057	TT	AA	1947030318
SNP_P4_173010_41107	NW_004517199.1	Scaffold2183	41107	CC	TT	1947030320
SNP_P4_173011_41109	NW_004517199.1	Scaffold2183	41109	TT	CC	1947030322
SNP_P4_173012_41115	NW_004517199.1	Scaffold2183	41115	AA	TT	1947030324
SNP_P4_173013_41504	NW_004517199.1	Scaffold2183	41504	AA	GG	1947030326
SNP_P4_173014_41510	NW_004517199.1	Scaffold2183	41510	GG	TT	1947030328
SNP_P4_173015_41652	NW_004517199.1	Scaffold2183	41652	CC	TT	1947030330
SNP_P4_173016_43089	NW_004517199.1	Scaffold2183	43089	CC	GG	1947030332
SNP_P4_173017_44114	NW_004517199.1	Scaffold2183	44114	TT	CC	1947030333
SNP_P4_173018_44178	NW_004517199.1	Scaffold2183	44178	CC	TT	1947030335
SNP_P4_173019_44515	NW_004517199.1	Scaffold2183	44515	CC	TT	1947030337
SNP_P4_173020_44725	NW_004517199.1	Scaffold2183	44725	GG	AA	1947030339
SNP_P4_173021_44837	NW_004517199.1	Scaffold2183	44837	TT	CC	1947030341
SNP_P4_173022_46459	NW_004517199.1	Scaffold2183	46459	TT	GG	1947030343
SNP_P4_173023_46503	NW_004517199.1	Scaffold2183	46503	CC	TT	1947030345
SNP_P4_173024_46507	NW_004517199.1	Scaffold2183	46507	CC	TT	1947030347
SNP_P4_173025_46570	NW_004517199.1	Scaffold2183	46570	TT	CC	1947030349
SNP_P4_173026_46816	NW_004517199.1	Scaffold2183	46816	GG	AA	1947030351
SNP_P4_173027_47006	NW_004517199.1	Scaffold2183	47006	AA	TT	1947030353
SNP_P4_173028_47580	NW_004517199.1	Scaffold2183	47580	CC	AA	1947030355
SNP_P4_173029_47622	NW_004517199.1	Scaffold2183	47622	CC	TT	1947030357
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SNP_P4_173031_47906	NW_004517199.1	Scaffold2183	47906	CC	TT	1947030361
SNP_P4_173032_48092	NW_004517199.1	Scaffold2183	48092	AA	GG	1947030363
SNP_P4_173033_48399	NW_004517199.1	Scaffold2183	48399	TT	CC	1947030365
SNP_P4_173034_48423	NW_004517199.1	Scaffold2183	48423	AA	GG	1947030367
SNP_P4_173035_48424	NW_004517199.1	Scaffold2183	48424	AA	GG	1947030369
SNP_P4_173036_48432	NW_004517199.1	Scaffold2183	48432	CC	TT	1947030370
SNP_P4_173037_48447	NW_004517199.1	Scaffold2183	48447	CC	TT	1947030372
SNP_P4_173038_49331	NW_004517199.1	Scaffold2183	49331	CC	AA	1947030374
SNP_P4_173039_49332	NW_004517199.1	Scaffold2183	49332	GG	TT	1947030376
SNP_P4_173040_52289	NW_004517199.1	Scaffold2183	52289	CC	TT	1947030378
SNP_P4_173041_52343	NW_004517199.1	Scaffold2183	52343	GG	TT	1947030380
SNP_P4_173042_59384	NW_004517199.1	Scaffold2183	59384	TT	CC	1947030382
SNP_P4_173043_59424	NW_004517199.1	Scaffold2183	59424	TT	AA	1947030384
SNP_P4_173044_60331	NW_004517199.1	Scaffold2183	60331	GG	AA	1947030386
SNP_P4_173045_60340	NW_004517199.1	Scaffold2183	60340	TT	CC	1947030388
SNP_P4_173046_60347	NW_004517199.1	Scaffold2183	60347	TT	CC	1947030389
SNP_P4_173047_60348	NW_004517199.1	Scaffold2183	60348	TT	GG	1947030391
SNP_P4_173048_60376	NW_004517199.1	Scaffold2183	60376	AA	GG	1947030393

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_173051_61680	NW_004517199.1	Scaffold2183	61680	CC	TT	1947030399
SNP_P4_173052_62959	NW_004517199.1	Scaffold2183	62959	CC	TT	1947030401
SNP_P4_173053_62977	NW_004517199.1	Scaffold2183	62977	AA	TT	1947030403
SNP_P4_173054_63900	NW_004517199.1	Scaffold2183	63900	GG	CC	1947030405
SNP_P4_173055_63926	NW_004517199.1	Scaffold2183	63926	CC	GG	1947030407
SNP_P4_173056_64221	NW_004517199.1	Scaffold2183	64221	GG	AA	1947030409
SNP_P4_173057_64450	NW_004517199.1	Scaffold2183	64450	TT	CC	1947030411
SNP_P4_173058_64503	NW_004517199.1	Scaffold2183	64503	CC	TT	1947030413
SNP_P4_173059_65132	NW_004517199.1	Scaffold2183	65132	CC	AA	1947030415
SNP_P4_173061_65764	NW_004517199.1	Scaffold2183	65764	CC	GG	1947030417
SNP_P4_173062_65769	NW_004517199.1	Scaffold2183	65769	AA	GG	1947030419
SNP_P4_173063_65879	NW_004517199.1	Scaffold2183	65879	GG	AA	1947030421
SNP_P4_173064_65883	NW_004517199.1	Scaffold2183	65883	CC	TT	1947030423
SNP_P4_173065_65885	NW_004517199.1	Scaffold2183	65885	AA	GG	1947030425
SNP_P4_173066_66047	NW_004517199.1	Scaffold2183	66047	AA	TT	1947030427
SNP_P4_173067_66469	NW_004517199.1	Scaffold2183	66469	AA	GG	1947030429
SNP_P4_173068_66733	NW_004517199.1	Scaffold2183	66733	AA	CC	1947030430
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SNP_P4_173072_67052	NW_004517199.1	Scaffold2183	67052	AA	GG	1947030438
SNP_P4_173073_67107	NW_004517199.1	Scaffold2183	67107	GG	AA	1947030440
SNP_P4_173074_67126	NW_004517199.1	Scaffold2183	67126	AA	GG	1947030442
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SNP_P4_173086_67938	NW_004517199.1	Scaffold2183	67938	TT	AA	1947030462
SNP_P4_173087_67962	NW_004517199.1	Scaffold2183	67962	AA	TT	1947030464
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SNP_P4_173089_68053	NW_004517199.1	Scaffold2183	68053	TT	CC	1947030468
SNP_P4_173090_68095	NW_004517199.1	Scaffold2183	68095	AA	GG	1947030470
SNP_P4_173091_68238	NW_004517199.1	Scaffold2183	68238	AA	GG	1947030472
SNP_P4_173092_68271	NW_004517199.1	Scaffold2183	68271	GG	AA	1947030474
SNP_P4_173093_68276	NW_004517199.1	Scaffold2183	68276	CC	TT	1947030476

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_173096_68357	NW_004517199.1	Scaffold2183	68357	AA	GG	1947030482
SNP_P4_173097_68384	NW_004517199.1	Scaffold2183	68384	AA	TT	1947030484
SNP_P4_173098_68407	NW_004517199.1	Scaffold2183	68407	TT	CC	1947030486
SNP_P4_173099_68510	NW_004517199.1	Scaffold2183	68510	TT	AA	1947030487
SNP_P4_173100_68512	NW_004517199.1	Scaffold2183	68512	CC	TT	1947030489
SNP_P4_173101_68521	NW_004517199.1	Scaffold2183	68521	AA	GG	1947030491
SNP_P4_173102_68535	NW_004517199.1	Scaffold2183	68535	GG	AA	1947030493
SNP_P4_173103_68599	NW_004517199.1	Scaffold2183	68599	AA	GG	1947030495
SNP_P4_173104_68618	NW_004517199.1	Scaffold2183	68618	CC	TT	1947030497
SNP_P4_173105_68653	NW_004517199.1	Scaffold2183	68653	CC	TT	1947030499
SNP_P4_173106_68654	NW_004517199.1	Scaffold2183	68654	AA	TT	1947030501
SNP_P4_173107_68698	NW_004517199.1	Scaffold2183	68698	GG	AA	1947030503
SNP_P4_173108_68739	NW_004517199.1	Scaffold2183	68739	AA	CC	1947030505
SNP_P4_173109_68808	NW_004517199.1	Scaffold2183	68808	CC	AA	1947030507
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SNP_P4_173113_68881	NW_004517199.1	Scaffold2183	68881	CC	TT	1947030514
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SNP_P4_173118_69142	NW_004517199.1	Scaffold2183	69142	CC	TT	1947030524
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SNP_P4_173126_69430	NW_004517199.1	Scaffold2183	69430	CC	TT	1947030540
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SNP_P4_173131_69657	NW_004517199.1	Scaffold2183	69657	CC	TT	1947030550
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SNP_P4_173133_69724	NW_004517199.1	Scaffold2183	69724	GG	AA	1947030554
SNP_P4_173134_69761	NW_004517199.1	Scaffold2183	69761	CC	TT	1947030556
SNP_P4_173135_69777	NW_004517199.1	Scaffold2183	69777	GG	AA	1947030558

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_173138_69858	NW_004517199.1	Scaffold2183	69858	CC	AA	1947030564
SNP_P4_173139_69879	NW_004517199.1	Scaffold2183	69879	CC	AA	1947030566
SNP_P4_173140_69926	NW_004517199.1	Scaffold2183	69926	AA	GG	1947030568
SNP_P4_173141_69963	NW_004517199.1	Scaffold2183	69963	CC	AA	1947030570
SNP_P4_173142_69978	NW_004517199.1	Scaffold2183	69978	TT	CC	1947030572
SNP_P4_173143_70014	NW_004517199.1	Scaffold2183	70014	GG	TT	1947030574
SNP_P4_173145_70082	NW_004517199.1	Scaffold2183	70082	AA	GG	1947030576
SNP_P4_173146_70140	NW_004517199.1	Scaffold2183	70140	CC	TT	1947030578
SNP_P4_173147_70191	NW_004517199.1	Scaffold2183	70191	CC	TT	1947030580
SNP_P4_173148_70192	NW_004517199.1	Scaffold2183	70192	GG	AA	1947030582
SNP_P4_173149_70370	NW_004517199.1	Scaffold2183	70370	CC	AA	1947030584
SNP_P4_173150_70413	NW_004517199.1	Scaffold2183	70413	GG	CC	1947030586
SNP_P4_173151_70455	NW_004517199.1	Scaffold2183	70455	CC	TT	1947030588
SNP_P4_173152_70523	NW_004517199.1	Scaffold2183	70523	CC	TT	1947030590
SNP_P4_173153_70527	NW_004517199.1	Scaffold2183	70527	CC	TT	1947030592
SNP_P4_173154_70751	NW_004517199.1	Scaffold2183	70751	GG	AA	1947030594
SNP_P4_173156_71674	NW_004517199.1	Scaffold2183	71674	CC	AA	1947030595
SNP_P4_173157_71734	NW_004517199.1	Scaffold2183	71734	GG	TT	1947030597
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SNP_P4_173159_71952	NW_004517199.1	Scaffold2183	71952	TT	GG	1947030601
SNP_P4_173160_74392	NW_004517199.1	Scaffold2183	74392	TT	CC	1947030603
SNP_P4_173161_74424	NW_004517199.1	Scaffold2183	74424	GG	AA	1947030605
SNP_P4_173162_74425	NW_004517199.1	Scaffold2183	74425	TT	GG	1947030607
SNP_P4_173163_74444	NW_004517199.1	Scaffold2183	74444	AA	CC	1947030609
SNP_P4_173164_74532	NW_004517199.1	Scaffold2183	74532	TT	CC	1947030611
SNP_P4_173165_74546	NW_004517199.1	Scaffold2183	74546	GG	AA	1947030613
SNP_P4_173166_74977	NW_004517199.1	Scaffold2183	74977	AA	GG	1947030615
SNP_P4_173167_75061	NW_004517199.1	Scaffold2183	75061	AA	GG	1947030617
SNP_P4_173168_75077	NW_004517199.1	Scaffold2183	75077	AA	TT	1947030619
SNP_P4_173169_75079	NW_004517199.1	Scaffold2183	75079	AA	TT	1947030621
SNP_P4_173170_4354	NW_004517202.1	Scaffold2186	4354	AA	GG	1947030623
SNP_P4_173173_18454	NW_004517205.1	Scaffold2192	18454	AA	GG	1947030625
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SNP_P4_173176_47681	NW_004517205.1	Scaffold2192	47681	TT	CC	1947030631
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SNP_P4_173178_55544	NW_004517205.1	Scaffold2192	55544	CC	TT	1947030635
SNP_P4_173179_55891	NW_004517205.1	Scaffold2192	55891	CC	TT	1947030637
SNP_P4_173180_70281	NW_004517205.1	Scaffold2192	70281	GG	TT	1947030639
SNP_P4_173181_79351	NW_004517205.1	Scaffold2192	79351	TT	AA	1947030641

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_173186_107968	NW_004517205.1	Scaffold2192	107968	TT	GG	1947030645
SNP_P4_173187_107996	NW_004517205.1	Scaffold2192	107996	GG	TT	1947030647
SNP_P4_173188_108014	NW_004517205.1	Scaffold2192	108014	GG	AA	1947030649
SNP_P4_173189_108318	NW_004517205.1	Scaffold2192	108318	AA	GG	1947030651
SNP_P4_173190_108373	NW_004517205.1	Scaffold2192	108373	GG	TT	1947030653
SNP_P4_173191_108406	NW_004517205.1	Scaffold2192	108406	GG	AA	1947030655
SNP_P4_173192_108424	NW_004517205.1	Scaffold2192	108424	TT	CC	1947030657
SNP_P4_173193_108705	NW_004517205.1	Scaffold2192	108705	TT	CC	1947030659
SNP_P4_173194_108714	NW_004517205.1	Scaffold2192	108714	TT	AA	1947030661
SNP_P4_173195_108894	NW_004517205.1	Scaffold2192	108894	CC	AA	1947030663
SNP_P4_173196_108912	NW_004517205.1	Scaffold2192	108912	AA	TT	1947030665
SNP_P4_173197_108940	NW_004517205.1	Scaffold2192	108940	TT	GG	1947030667
SNP_P4_173198_108947	NW_004517205.1	Scaffold2192	108947	TT	CC	1947030669
SNP_P4_173199_108951	NW_004517205.1	Scaffold2192	108951	AA	GG	1947030671
SNP_P4_173200_109076	NW_004517205.1	Scaffold2192	109076	TT	CC	1947030672
SNP_P4_173201_109272	NW_004517205.1	Scaffold2192	109272	CC	TT	1947030674
SNP_P4_173202_111048	NW_004517205.1	Scaffold2192	111048	CC	TT	1947030676
SNP_P4_173203_114533	NW_004517205.1	Scaffold2192	114533	GG	TT	1947030678
SNP_P4_173204_115340	NW_004517205.1	Scaffold2192	115340	AA	GG	1947030680
SNP_P4_173205_119352	NW_004517205.1	Scaffold2192	119352	GG	AA	1947030682
SNP_P4_173207_130859	NW_004517205.1	Scaffold2192	130859	TT	GG	1947030684
SNP_P4_173208_135073	NW_004517205.1	Scaffold2192	135073	AA	GG	1947030686
SNP_P4_173209_153875	NW_004517205.1	Scaffold2192	153875	TT	CC	1947030688
SNP_P4_173210_154308	NW_004517205.1	Scaffold2192	154308	AA	CC	1947030690
SNP_P4_173211_154353	NW_004517205.1	Scaffold2192	154353	TT	CC	1947030692
SNP_P4_173212_160825	NW_004517205.1	Scaffold2192	160825	TT	CC	1947030694
SNP_P4_173213_160856	NW_004517205.1	Scaffold2192	160856	GG	AA	1947030696
SNP_P4_173215_170726	NW_004517205.1	Scaffold2192	170726	AA	GG	1947030698
SNP_P4_173216_170748	NW_004517205.1	Scaffold2192	170748	CC	TT	1947030700
SNP_P4_173217_182591	NW_004517205.1	Scaffold2192	182591	AA	GG	1947030702
SNP_P4_173218_182600	NW_004517205.1	Scaffold2192	182600	GG	AA	1947030704
SNP_P4_173219_182631	NW_004517205.1	Scaffold2192	182631	GG	CC	1947030706
SNP_P4_173220_182632	NW_004517205.1	Scaffold2192	182632	CC	TT	1947030708
SNP_P4_173221_182729	NW_004517205.1	Scaffold2192	182729	TT	AA	1947030710
SNP_P4_173222_182740	NW_004517205.1	Scaffold2192	182740	TT	AA	1947030712
SNP_P4_173223_182757	NW_004517205.1	Scaffold2192	182757	GG	AA	1947030714
SNP_P4_173224_182765	NW_004517205.1	Scaffold2192	182765	TT	CC	1947030715
SNP_P4_173225_182823	NW_004517205.1	Scaffold2192	182823	TT	CC	1947030717
SNP_P4_173226_182891	NW_004517205.1	Scaffold2192	182891	AA	CC	1947030719
SNP_P4_173227_182953	NW_004517205.1	Scaffold2192	182953	GG	AA	1947030721
SNP_P4_173228_182965	NW_004517205.1	Scaffold2192	182965	TT	CC	1947030723

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_173230_183017	NW_004517205.1	Scaffold2192	183017	AA	CC	1947030727
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SNP_P4_173232_183026	NW_004517205.1	Scaffold2192	183026	GG	AA	1947030731
SNP_P4_173233_183109	NW_004517205.1	Scaffold2192	183109	GG	TT	1947030733
SNP_P4_173234_183117	NW_004517205.1	Scaffold2192	183117	CC	AA	1947030735
SNP_P4_173235_183170	NW_004517205.1	Scaffold2192	183170	TT	CC	1947030737
SNP_P4_173236_183188	NW_004517205.1	Scaffold2192	183188	AA	GG	1947030739
SNP_P4_173237_197277	NW_004517205.1	Scaffold2192	197277	TT	GG	1947030741
SNP_P4_173238_202053	NW_004517205.1	Scaffold2192	202053	TT	GG	1947030743
SNP_P4_173239_202060	NW_004517205.1	Scaffold2192	202060	TT	CC	1947030745
SNP_P4_173240_202066	NW_004517205.1	Scaffold2192	202066	AA	GG	1947030747
SNP_P4_173242_223676	NW_004517205.1	Scaffold2192	223676	CC	AA	1947030749
SNP_P4_173243_223701	NW_004517205.1	Scaffold2192	223701	TT	AA	1947030751
SNP_P4_173244_223727	NW_004517205.1	Scaffold2192	223727	TT	CC	1947030753
SNP_P4_173245_224038	NW_004517205.1	Scaffold2192	224038	GG	AA	1947030755
SNP_P4_173246_12251	NW_004517206.1	Scaffold2193	12251	TT	GG	1947030757
SNP_P4_173247_12391	NW_004517206.1	Scaffold2193	12391	CC	TT	1947030759
SNP_P4_173248_12550	NW_004517206.1	Scaffold2193	12550	AA	CC	1947030760
SNP_P4_173249_12826	NW_004517206.1	Scaffold2193	12826	GG	AA	1947030762
SNP_P4_173250_13003	NW_004517206.1	Scaffold2193	13003	CC	GG	1947030764
SNP_P4_173251_13085	NW_004517206.1	Scaffold2193	13085	TT	CC	1947030766
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SNP_P4_173253_30015	NW_004517206.1	Scaffold2193	30015	TT	CC	1947030770
SNP_P4_173254_30099	NW_004517206.1	Scaffold2193	30099	CC	TT	1947030772
SNP_P4_173255_31259	NW_004517206.1	Scaffold2193	31259	GG	AA	1947030774
SNP_P4_173256_31283	NW_004517206.1	Scaffold2193	31283	CC	AA	1947030776
SNP_P4_173257_31407	NW_004517206.1	Scaffold2193	31407	TT	GG	1947030778
SNP_P4_173258_31456	NW_004517206.1	Scaffold2193	31456	AA	GG	1947030780
SNP_P4_173259_31478	NW_004517206.1	Scaffold2193	31478	AA	GG	1947030782
SNP_P4_173260_31490	NW_004517206.1	Scaffold2193	31490	TT	GG	1947030784
SNP_P4_173261_31492	NW_004517206.1	Scaffold2193	31492	CC	TT	1947030786
SNP_P4_173262_31525	NW_004517206.1	Scaffold2193	31525	CC	TT	1947030788
SNP_P4_173263_31532	NW_004517206.1	Scaffold2193	31532	AA	GG	1947030790
SNP_P4_173264_31562	NW_004517206.1	Scaffold2193	31562	TT	CC	1947030792
SNP_P4_173266_31643	NW_004517206.1	Scaffold2193	31643	GG	AA	1947030794
SNP_P4_173267_31702	NW_004517206.1	Scaffold2193	31702	TT	CC	1947030796
SNP_P4_173268_31793	NW_004517206.1	Scaffold2193	31793	GG	TT	1947030798
SNP_P4_173269_31804	NW_004517206.1	Scaffold2193	31804	AA	GG	1947030800
SNP_P4_173270_31864	NW_004517206.1	Scaffold2193	31864	AA	GG	1947030802
SNP_P4_173271_51181	NW_004517206.1	Scaffold2193	51181	TT	CC	1947030804
SNP_P4_173272_51395	NW_004517206.1	Scaffold2193	51395	AA	GG	1947030805

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_173274_55307	NW_004517206.1	Scaffold2193	55307	TT	CC	1947030809
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SNP_P4_173276_58867	NW_004517206.1	Scaffold2193	58867	TT	AA	1947030813
SNP_P4_173277_59154	NW_004517206.1	Scaffold2193	59154	GG	TT	1947030815
SNP_P4_173278_70030	NW_004517206.1	Scaffold2193	70030	TT	CC	1947030817
SNP_P4_173279_123523	NW_004517206.1	Scaffold2193	123523	GG	AA	1947030819
SNP_P4_173280_123551	NW_004517206.1	Scaffold2193	123551	AA	GG	1947030821
SNP_P4_173281_123605	NW_004517206.1	Scaffold2193	123605	AA	GG	1947030823
SNP_P4_173282_123632	NW_004517206.1	Scaffold2193	123632	AA	GG	1947030825
SNP_P4_173283_123670	NW_004517206.1	Scaffold2193	123670	GG	TT	1947030827
SNP_P4_173284_123673	NW_004517206.1	Scaffold2193	123673	GG	TT	1947030829
SNP_P4_173285_123682	NW_004517206.1	Scaffold2193	123682	TT	CC	1947030831
SNP_P4_173286_123685	NW_004517206.1	Scaffold2193	123685	TT	CC	1947030833
SNP_P4_173287_124811	NW_004517206.1	Scaffold2193	124811	AA	GG	1947030835
SNP_P4_173288_128010	NW_004517206.1	Scaffold2193	128010	GG	AA	1947030836
SNP_P4_173290_164947	NW_004517206.1	Scaffold2193	164947	CC	TT	1947030838
SNP_P4_173291_165226	NW_004517206.1	Scaffold2193	165226	CC	AA	1947030840
SNP_P4_173292_165232	NW_004517206.1	Scaffold2193	165232	GG	AA	1947030842
SNP_P4_173293_165252	NW_004517206.1	Scaffold2193	165252	AA	GG	1947030844
SNP_P4_173294_4299	NW_004517207.1	Scaffold2194	4299	TT	AA	1947030846
SNP_P4_173295_9287	NW_004517207.1	Scaffold2194	9287	TT	GG	1947030848
SNP_P4_173296_18007	NW_004517207.1	Scaffold2194	18007	AA	GG	1947030850
SNP_P4_173297_19161	NW_004517207.1	Scaffold2194	19161	AA	GG	1947030852
SNP_P4_173298_23818	NW_004517207.1	Scaffold2194	23818	AA	GG	1947030854
SNP_P4_173299_23989	NW_004517207.1	Scaffold2194	23989	TT	GG	1947030856
SNP_P4_173300_24099	NW_004517207.1	Scaffold2194	24099	GG	TT	1947030858
SNP_P4_173301_24175	NW_004517207.1	Scaffold2194	24175	GG	CC	1947030860
SNP_P4_173302_24288	NW_004517207.1	Scaffold2194	24288	CC	TT	1947030861
SNP_P4_173303_24294	NW_004517207.1	Scaffold2194	24294	GG	TT	1947030863
SNP_P4_173304_24394	NW_004517207.1	Scaffold2194	24394	CC	TT	1947030865
SNP_P4_173305_24419	NW_004517207.1	Scaffold2194	24419	CC	TT	1947030867
SNP_P4_173306_24446	NW_004517207.1	Scaffold2194	24446	GG	TT	1947030869
SNP_P4_173307_24636	NW_004517207.1	Scaffold2194	24636	CC	TT	1947030871
SNP_P4_173308_24963	NW_004517207.1	Scaffold2194	24963	AA	GG	1947030873
SNP_P4_173310_631	NW_004517208.1	Scaffold2195	631	GG	AA	1947030875
SNP_P4_173311_736	NW_004517208.1	Scaffold2195	736	TT	AA	1947030877
SNP_P4_173312_1954	NW_004517208.1	Scaffold2195	1954	TT	CC	1947030879
SNP_P4_173313_1982	NW_004517208.1	Scaffold2195	1982	GG	TT	1947030881
SNP_P4_173314_859	NW_004517210.1	Scaffold2199	859	CC	TT	1947030883
SNP_P4_173315_909	NW_004517210.1	Scaffold2199	909	AA	GG	1947030885
SNP_P4_173316_918	NW_004517210.1	Scaffold2199	918	AA	GG	1947030887

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_173317_954	NW_004517210.1	Scaffold2199	954	TT	AA	1947030889
SNP_P4_173318_956	NW_004517210.1	Scaffold2199	956	GG	AA	1947030891
SNP_P4_173319_10952	NW_004517211.1	Scaffold2200	10952	CC	AA	1947030893
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SNP_P4_173321_150	NW_004517212.1	Scaffold2201	150	TT	AA	1947030897
SNP_P4_173322_158	NW_004517212.1	Scaffold2201	158	GG	AA	1947030899
SNP_P4_173323_161	NW_004517212.1	Scaffold2201	161	AA	GG	1947030901
SNP_P4_173324_207	NW_004517212.1	Scaffold2201	207	CC	TT	1947030903
SNP_P4_173325_3621	NW_004517212.1	Scaffold2201	3621	GG	TT	1947030905
SNP_P4_173326_3627	NW_004517212.1	Scaffold2201	3627	AA	GG	1947030907
SNP_P4_173327_6029	NW_004517214.1	Scaffold2203	6029	TT	AA	1947030908
SNP_P4_173328_6036	NW_004517214.1	Scaffold2203	6036	AA	TT	1947030910
SNP_P4_173329_1382	NW_004517215.1	Scaffold2205	1382	AA	TT	1947030912
SNP_P4_173330_1408	NW_004517215.1	Scaffold2205	1408	CC	TT	1947030914
SNP_P4_173331_1456	NW_004517215.1	Scaffold2205	1456	CC	TT	1947030916
SNP_P4_173332_1460	NW_004517215.1	Scaffold2205	1460	CC	TT	1947030918
SNP_P4_173333_1468	NW_004517215.1	Scaffold2205	1468	GG	TT	1947030920
SNP_P4_173335_1501	NW_004517215.1	Scaffold2205	1501	AA	TT	1947030922
SNP_P4_173336_1734	NW_004517215.1	Scaffold2205	1734	TT	GG	1947030924
SNP_P4_173337_3227	NW_004517215.1	Scaffold2205	3227	CC	TT	1947030926
SNP_P4_173338_3374	NW_004517215.1	Scaffold2205	3374	GG	CC	1947030928
SNP_P4_173339_3467	NW_004517215.1	Scaffold2205	3467	CC	TT	1947030930
SNP_P4_173340_5688	NW_004517215.1	Scaffold2205	5688	TT	AA	1947030932
SNP_P4_173341_10233	NW_004517215.1	Scaffold2205	10233	TT	GG	1947030934
SNP_P4_173342_10487	NW_004517215.1	Scaffold2205	10487	TT	GG	1947030936
SNP_P4_173343_10618	NW_004517215.1	Scaffold2205	10618	TT	AA	1947030938
SNP_P4_173344_10907	NW_004517215.1	Scaffold2205	10907	GG	AA	1947030940
SNP_P4_173345_14480	NW_004517215.1	Scaffold2205	14480	GG	AA	1947030942
SNP_P4_173346_14733	NW_004517215.1	Scaffold2205	14733	GG	AA	1947030944
SNP_P4_173347_14795	NW_004517215.1	Scaffold2205	14795	CC	AA	1947030945
SNP_P4_173348_14815	NW_004517215.1	Scaffold2205	14815	GG	CC	1947030947
SNP_P4_173349_14854	NW_004517215.1	Scaffold2205	14854	TT	CC	1947030949
SNP_P4_173350_15943	NW_004517215.1	Scaffold2205	15943	TT	CC	1947030951
SNP_P4_173351_20291	NW_004517215.1	Scaffold2205	20291	AA	GG	1947030953
SNP_P4_173352_21408	NW_004517215.1	Scaffold2205	21408	TT	GG	1947030955
SNP_P4_173353_21774	NW_004517215.1	Scaffold2205	21774	AA	GG	1947030957
SNP_P4_173354_21781	NW_004517215.1	Scaffold2205	21781	TT	GG	1947030959
SNP_P4_173355_21824	NW_004517215.1	Scaffold2205	21824	CC	TT	1947030960
SNP_P4_173356_23801	NW_004517215.1	Scaffold2205	23801	CC	TT	1947030962
SNP_P4_173357_23855	NW_004517215.1	Scaffold2205	23855	TT	AA	1947030965
SNP_P4_173358_24159	NW_004517215.1	Scaffold2205	24159	GG	AA	1947030967
SNP_P4_173359_24194	NW_004517215.1	Scaffold2205	24194	CC	TT	1947030969

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_173360_24706	NW_004517215.1	Scaffold2205	24706	AA	TT	1947030971
SNP_P4_173361_26329	NW_004517215.1	Scaffold2205	26329	TT	CC	1947030973
SNP_P4_173362_27966	NW_004517215.1	Scaffold2205	27966	GG	AA	1947030975
SNP_P4_173363_38409	NW_004517215.1	Scaffold2205	38409	CC	GG	1947030977
SNP_P4_173364_38959	NW_004517215.1	Scaffold2205	38959	TT	GG	1947030979
SNP_P4_173365_43534	NW_004517215.1	Scaffold2205	43534	AA	CC	1947030981
SNP_P4_173366_43594	NW_004517215.1	Scaffold2205	43594	TT	GG	1947030983
SNP_P4_173367_47991	NW_004517215.1	Scaffold2205	47991	GG	TT	1947030985
SNP_P4_173368_48027	NW_004517215.1	Scaffold2205	48027	GG	AA	1947030987
SNP_P4_173369_48118	NW_004517215.1	Scaffold2205	48118	AA	CC	1947030989
SNP_P4_173370_48240	NW_004517215.1	Scaffold2205	48240	TT	CC	1947030991
SNP_P4_173371_48332	NW_004517215.1	Scaffold2205	48332	CC	TT	1947030993
SNP_P4_173372_48440	NW_004517215.1	Scaffold2205	48440	CC	TT	1947030994
SNP_P4_173373_48756	NW_004517215.1	Scaffold2205	48756	AA	GG	1947030996
SNP_P4_173374_48860	NW_004517215.1	Scaffold2205	48860	GG	AA	1947030998
SNP_P4_173375_49044	NW_004517215.1	Scaffold2205	49044	CC	GG	1947031000
SNP_P4_173376_49070	NW_004517215.1	Scaffold2205	49070	TT	CC	1947031002
SNP_P4_173377_49093	NW_004517215.1	Scaffold2205	49093	TT	CC	1947031004
SNP_P4_173378_49096	NW_004517215.1	Scaffold2205	49096	TT	CC	1947031006
SNP_P4_173380_49167	NW_004517215.1	Scaffold2205	49167	TT	CC	1947031008
SNP_P4_173381_49205	NW_004517215.1	Scaffold2205	49205	CC	AA	1947031010
SNP_P4_173382_49210	NW_004517215.1	Scaffold2205	49210	CC	GG	1947031012
SNP_P4_173383_49225	NW_004517215.1	Scaffold2205	49225	GG	TT	1947031014
SNP_P4_173384_230	NW_004517217.1	Scaffold2207	230	GG	TT	1947031016
SNP_P4_173385_669	NW_004517217.1	Scaffold2207	669	CC	GG	1947031018
SNP_P4_173386_711	NW_004517217.1	Scaffold2207	711	TT	AA	1947031020
SNP_P4_173387_715	NW_004517217.1	Scaffold2207	715	TT	AA	1947031022
SNP_P4_173388_786	NW_004517217.1	Scaffold2207	786	GG	CC	1947031024
SNP_P4_173389_824	NW_004517217.1	Scaffold2207	824	AA	GG	1947031026
SNP_P4_173390_829	NW_004517217.1	Scaffold2207	829	CC	AA	1947031028
SNP_P4_173391_830	NW_004517217.1	Scaffold2207	830	GG	TT	1947031030
SNP_P4_173392_834	NW_004517217.1	Scaffold2207	834	CC	TT	1947031032
SNP_P4_173393_835	NW_004517217.1	Scaffold2207	835	AA	GG	1947031034
SNP_P4_173394_901	NW_004517217.1	Scaffold2207	901	TT	GG	1947031036
SNP_P4_173395_902	NW_004517217.1	Scaffold2207	902	GG	AA	1947031038
SNP_P4_173396_913	NW_004517217.1	Scaffold2207	913	AA	TT	1947031040
SNP_P4_173397_1023	NW_004517217.1	Scaffold2207	1023	CC	AA	1947031042
SNP_P4_173398_1043	NW_004517217.1	Scaffold2207	1043	TT	CC	1947031044
SNP_P4_173399_1050	NW_004517217.1	Scaffold2207	1050	GG	TT	1947031046
SNP_P4_173400_1056	NW_004517217.1	Scaffold2207	1056	TT	CC	1947031048
SNP_P4_173401_1233	NW_004517217.1	Scaffold2207	1233	GG	TT	1947031050
SNP_P4_173402_4360	NW_004517217.1	Scaffold2207	4360	CC	TT	1947031052

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_173404_4745	NW_004517218.1	Scaffold2208	4745	TT	CC	1947031056
SNP_P4_173405_4924	NW_004517218.1	Scaffold2208	4924	GG	AA	1947031058
SNP_P4_173406_5008	NW_004517218.1	Scaffold2208	5008	TT	CC	1947031060
SNP_P4_173407_5278	NW_004517218.1	Scaffold2208	5278	CC	TT	1947031062
SNP_P4_173408_5333	NW_004517218.1	Scaffold2208	5333	CC	AA	1947031064
SNP_P4_173409_5851	NW_004517218.1	Scaffold2208	5851	AA	GG	1947031066
SNP_P4_173410_5905	NW_004517218.1	Scaffold2208	5905	GG	CC	1947031068
SNP_P4_173412_6097	NW_004517218.1	Scaffold2208	6097	GG	TT	1947031070
SNP_P4_173413_6102	NW_004517218.1	Scaffold2208	6102	AA	GG	1947031072
SNP_P4_173414_6104	NW_004517218.1	Scaffold2208	6104	CC	TT	1947031074
SNP_P4_173415_6187	NW_004517218.1	Scaffold2208	6187	AA	TT	1947031076
SNP_P4_173416_6281	NW_004517218.1	Scaffold2208	6281	AA	GG	1947031078
SNP_P4_173417_6371	NW_004517218.1	Scaffold2208	6371	TT	AA	1947031080
SNP_P4_173418_6541	NW_004517218.1	Scaffold2208	6541	TT	CC	1947031082
SNP_P4_173419_6712	NW_004517218.1	Scaffold2208	6712	TT	CC	1947031084
SNP_P4_173420_6729	NW_004517218.1	Scaffold2208	6729	GG	TT	1947031086
SNP_P4_173421_6851	NW_004517218.1	Scaffold2208	6851	GG	AA	1947031088
SNP_P4_173422_6868	NW_004517218.1	Scaffold2208	6868	AA	TT	1947031090
SNP_P4_173423_6907	NW_004517218.1	Scaffold2208	6907	AA	GG	1947031092
SNP_P4_173424_7089	NW_004517218.1	Scaffold2208	7089	GG	CC	1947031094
SNP_P4_173425_7108	NW_004517218.1	Scaffold2208	7108	AA	CC	1947031096
SNP_P4_173426_8289	NW_004517218.1	Scaffold2208	8289	AA	TT	1947031098
SNP_P4_173427_8352	NW_004517218.1	Scaffold2208	8352	CC	TT	1947031100
SNP_P4_173428_8785	NW_004517218.1	Scaffold2208	8785	GG	CC	1947031102
SNP_P4_173429_9693	NW_004517218.1	Scaffold2208	9693	AA	CC	1947031104
SNP_P4_173430_9893	NW_004517218.1	Scaffold2208	9893	GG	TT	1947031106
SNP_P4_173431_9986	NW_004517218.1	Scaffold2208	9986	GG	AA	1947031108
SNP_P4_173432_10099	NW_004517218.1	Scaffold2208	10099	CC	TT	1947031110
SNP_P4_173433_10105	NW_004517218.1	Scaffold2208	10105	AA	TT	1947031112
SNP_P4_173434_10109	NW_004517218.1	Scaffold2208	10109	AA	GG	1947031113
SNP_P4_173435_10110	NW_004517218.1	Scaffold2208	10110	CC	TT	1947031115
SNP_P4_173436_10203	NW_004517218.1	Scaffold2208	10203	AA	TT	1947031117
SNP_P4_173437_10265	NW_004517218.1	Scaffold2208	10265	TT	GG	1947031119
SNP_P4_173438_10470	NW_004517218.1	Scaffold2208	10470	CC	AA	1947031121
SNP_P4_173439_10560	NW_004517218.1	Scaffold2208	10560	CC	GG	1947031123
SNP_P4_173440_10678	NW_004517218.1	Scaffold2208	10678	GG	TT	1947031125
SNP_P4_173441_10689	NW_004517218.1	Scaffold2208	10689	GG	AA	1947031127
SNP_P4_173442_16167	NW_004517218.1	Scaffold2208	16167	AA	GG	1947031129
SNP_P4_173443_16552	NW_004517218.1	Scaffold2208	16552	TT	CC	1947031131
SNP_P4_173444_16559	NW_004517218.1	Scaffold2208	16559	CC	TT	1947031133
SNP_P4_173445_16561	NW_004517218.1	Scaffold2208	16561	AA	GG	1947031135

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_173447_18910	NW_004517218.1	Scaffold2208	18910	TT	AA	1947031139
SNP_P4_173448_19285	NW_004517218.1	Scaffold2208	19285	AA	GG	1947031140
SNP_P4_173449_19297	NW_004517218.1	Scaffold2208	19297	TT	CC	1947031142
SNP_P4_173450_19687	NW_004517218.1	Scaffold2208	19687	AA	CC	1947031144
SNP_P4_173451_19894	NW_004517218.1	Scaffold2208	19894	AA	GG	1947031146
SNP_P4_173452_19895	NW_004517218.1	Scaffold2208	19895	GG	CC	1947031148
SNP_P4_173454_20798	NW_004517218.1	Scaffold2208	20798	GG	TT	1947031150
SNP_P4_173455_20858	NW_004517218.1	Scaffold2208	20858	AA	TT	1947031152
SNP_P4_173456_20963	NW_004517218.1	Scaffold2208	20963	TT	AA	1947031154
SNP_P4_173457_21019	NW_004517218.1	Scaffold2208	21019	TT	CC	1947031156
SNP_P4_173458_21037	NW_004517218.1	Scaffold2208	21037	AA	CC	1947031158
SNP_P4_173459_21162	NW_004517218.1	Scaffold2208	21162	AA	CC	1947031160
SNP_P4_173460_21484	NW_004517218.1	Scaffold2208	21484	TT	CC	1947031162
SNP_P4_173461_21637	NW_004517218.1	Scaffold2208	21637	GG	AA	1947031164
SNP_P4_173462_21719	NW_004517218.1	Scaffold2208	21719	AA	TT	1947031166
SNP_P4_173463_21730	NW_004517218.1	Scaffold2208	21730	CC	TT	1947031168
SNP_P4_173464_21871	NW_004517218.1	Scaffold2208	21871	GG	CC	1947031170
SNP_P4_173465_21896	NW_004517218.1	Scaffold2208	21896	GG	AA	1947031172
SNP_P4_173466_26943	NW_004517218.1	Scaffold2208	26943	CC	TT	1947031174
SNP_P4_173467_27313	NW_004517218.1	Scaffold2208	27313	GG	AA	1947031176
SNP_P4_173468_64	NW_004517220.1	Scaffold2210	64	AA	TT	1947031178
SNP_P4_173469_878	NW_004517220.1	Scaffold2210	878	AA	TT	1947031180
SNP_P4_173470_1236	NW_004517220.1	Scaffold2210	1236	AA	GG	1947031182
SNP_P4_173471_5144	NW_004517220.1	Scaffold2210	5144	CC	GG	1947031184
SNP_P4_173472_5860	NW_004517220.1	Scaffold2210	5860	GG	AA	1947031186
SNP_P4_173473_7551	NW_004517220.1	Scaffold2210	7551	GG	AA	1947031188
SNP_P4_173474_7654	NW_004517220.1	Scaffold2210	7654	AA	GG	1947031190
SNP_P4_173475_7742	NW_004517220.1	Scaffold2210	7742	GG	CC	1947031192
SNP_P4_173476_8048	NW_004517220.1	Scaffold2210	8048	TT	GG	1947031194
SNP_P4_173477_8168	NW_004517220.1	Scaffold2210	8168	AA	GG	1947031196
SNP_P4_173478_8178	NW_004517220.1	Scaffold2210	8178	CC	GG	1947031198
SNP_P4_173479_8235	NW_004517220.1	Scaffold2210	8235	TT	CC	1947031200
SNP_P4_173480_14358	NW_004517220.1	Scaffold2210	14358	CC	TT	1947031202
SNP_P4_173481_14789	NW_004517220.1	Scaffold2210	14789	TT	CC	1947031204
SNP_P4_173482_14858	NW_004517220.1	Scaffold2210	14858	TT	CC	1947031206
SNP_P4_173483_14866	NW_004517220.1	Scaffold2210	14866	GG	TT	1947031208
SNP_P4_173484_15142	NW_004517220.1	Scaffold2210	15142	AA	GG	1947031210
SNP_P4_173485_15168	NW_004517220.1	Scaffold2210	15168	GG	TT	1947031212
SNP_P4_173487_15240	NW_004517220.1	Scaffold2210	15240	AA	CC	1947031214
SNP_P4_173488_15281	NW_004517220.1	Scaffold2210	15281	AA	GG	1947031216
SNP_P4_173489_15462	NW_004517220.1	Scaffold2210	15462	TT	AA	1947031218

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_173491_15581	NW_004517220.1	Scaffold2210	15581	CC	TT	1947031222
SNP_P4_173492_15612	NW_004517220.1	Scaffold2210	15612	GG	AA	1947031224
SNP_P4_173493_15615	NW_004517220.1	Scaffold2210	15615	AA	GG	1947031226
SNP_P4_173494_22578	NW_004517220.1	Scaffold2210	22578	AA	CC	1947031228
SNP_P4_173495_22593	NW_004517220.1	Scaffold2210	22593	CC	TT	1947031230
SNP_P4_173496_22713	NW_004517220.1	Scaffold2210	22713	CC	TT	1947031232
SNP_P4_173497_22716	NW_004517220.1	Scaffold2210	22716	TT	GG	1947031233
SNP_P4_173498_22804	NW_004517220.1	Scaffold2210	22804	CC	TT	1947031235
SNP_P4_173499_22805	NW_004517220.1	Scaffold2210	22805	GG	AA	1947031237
SNP_P4_173500_22811	NW_004517220.1	Scaffold2210	22811	CC	AA	1947031239
SNP_P4_173501_22850	NW_004517220.1	Scaffold2210	22850	CC	GG	1947031241
SNP_P4_173502_22979	NW_004517220.1	Scaffold2210	22979	AA	GG	1947031243
SNP_P4_173503_22982	NW_004517220.1	Scaffold2210	22982	TT	AA	1947031245
SNP_P4_173504_23004	NW_004517220.1	Scaffold2210	23004	AA	CC	1947031247
SNP_P4_173505_23048	NW_004517220.1	Scaffold2210	23048	TT	AA	1947031249
SNP_P4_173506_23068	NW_004517220.1	Scaffold2210	23068	AA	TT	1947031251
SNP_P4_173507_23082	NW_004517220.1	Scaffold2210	23082	GG	TT	1947031253
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SNP_P4_173509_23152	NW_004517220.1	Scaffold2210	23152	GG	CC	1947031257
SNP_P4_173510_27229	NW_004517220.1	Scaffold2210	27229	AA	CC	1947031259
SNP_P4_173511_27831	NW_004517220.1	Scaffold2210	27831	TT	CC	1947031261
SNP_P4_173512_27838	NW_004517220.1	Scaffold2210	27838	AA	CC	1947031263
SNP_P4_173513_27940	NW_004517220.1	Scaffold2210	27940	CC	GG	1947031265
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SNP_P4_173515_27980	NW_004517220.1	Scaffold2210	27980	TT	CC	1947031269
SNP_P4_173516_27999	NW_004517220.1	Scaffold2210	27999	GG	TT	1947031271
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SNP_P4_173519_28728	NW_004517220.1	Scaffold2210	28728	CC	TT	1947031277
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SNP_P4_173524_28989	NW_004517220.1	Scaffold2210	28989	AA	GG	1947031287
SNP_P4_173525_28999	NW_004517220.1	Scaffold2210	28999	AA	GG	1947031289
SNP_P4_173526_31148	NW_004517220.1	Scaffold2210	31148	GG	AA	1947031291
SNP_P4_173527_31289	NW_004517220.1	Scaffold2210	31289	AA	GG	1947031292
SNP_P4_173528_31348	NW_004517220.1	Scaffold2210	31348	AA	CC	1947031294
SNP_P4_173529_31383	NW_004517220.1	Scaffold2210	31383	AA	TT	1947031296
SNP_P4_173530_31451	NW_004517220.1	Scaffold2210	31451	TT	GG	1947031298
SNP_P4_173531_31456	NW_004517220.1	Scaffold2210	31456	CC	GG	1947031300

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_173533_31555	NW_004517220.1	Scaffold2210	31555	TT	AA	1947031304
SNP_P4_173534_33052	NW_004517220.1	Scaffold2210	33052	GG	AA	1947031306
SNP_P4_173535_35034	NW_004517220.1	Scaffold2210	35034	AA	GG	1947031308
SNP_P4_173536_35126	NW_004517220.1	Scaffold2210	35126	TT	AA	1947031310
SNP_P4_173537_35844	NW_004517220.1	Scaffold2210	35844	TT	GG	1947031312
SNP_P4_173538_36016	NW_004517220.1	Scaffold2210	36016	GG	AA	1947031314
SNP_P4_173539_36082	NW_004517220.1	Scaffold2210	36082	AA	CC	1947031316
SNP_P4_173540_36292	NW_004517220.1	Scaffold2210	36292	GG	AA	1947031318
SNP_P4_173541_36346	NW_004517220.1	Scaffold2210	36346	GG	TT	1947031320
SNP_P4_173542_36355	NW_004517220.1	Scaffold2210	36355	AA	GG	1947031322
SNP_P4_173543_36357	NW_004517220.1	Scaffold2210	36357	AA	TT	1947031324
SNP_P4_173544_36360	NW_004517220.1	Scaffold2210	36360	TT	GG	1947031326
SNP_P4_173545_36361	NW_004517220.1	Scaffold2210	36361	GG	TT	1947031328
SNP_P4_173546_36362	NW_004517220.1	Scaffold2210	36362	CC	TT	1947031330
SNP_P4_173547_36367	NW_004517220.1	Scaffold2210	36367	CC	GG	1947031332
SNP_P4_173548_36369	NW_004517220.1	Scaffold2210	36369	AA	GG	1947031334
SNP_P4_173549_36381	NW_004517220.1	Scaffold2210	36381	TT	GG	1947031336
SNP_P4_173550_36415	NW_004517220.1	Scaffold2210	36415	CC	TT	1947031338
SNP_P4_173551_41321	NW_004517220.1	Scaffold2210	41321	GG	AA	1947031340
SNP_P4_173552_41537	NW_004517220.1	Scaffold2210	41537	GG	CC	1947031342
SNP_P4_173553_41589	NW_004517220.1	Scaffold2210	41589	TT	AA	1947031344
SNP_P4_173554_47449	NW_004517220.1	Scaffold2210	47449	AA	GG	1947031346
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SNP_P4_173557_55226	NW_004517220.1	Scaffold2210	55226	CC	AA	1947031352
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SNP_P4_173561_55649	NW_004517220.1	Scaffold2210	55649	AA	CC	1947031359
SNP_P4_173562_55664	NW_004517220.1	Scaffold2210	55664	AA	GG	1947031361
SNP_P4_173563_55668	NW_004517220.1	Scaffold2210	55668	AA	TT	1947031363
SNP_P4_173564_55922	NW_004517220.1	Scaffold2210	55922	AA	CC	1947031365
SNP_P4_173565_56293	NW_004517220.1	Scaffold2210	56293	AA	GG	1947031367
SNP_P4_173566_57331	NW_004517220.1	Scaffold2210	57331	TT	CC	1947031369
SNP_P4_173567_57352	NW_004517220.1	Scaffold2210	57352	CC	TT	1947031371
SNP_P4_173568_57416	NW_004517220.1	Scaffold2210	57416	CC	AA	1947031373
SNP_P4_173569_57543	NW_004517220.1	Scaffold2210	57543	GG	AA	1947031375
SNP_P4_173570_57579	NW_004517220.1	Scaffold2210	57579	CC	TT	1947031377
SNP_P4_173571_57645	NW_004517220.1	Scaffold2210	57645	AA	GG	1947031379
SNP_P4_173572_57682	NW_004517220.1	Scaffold2210	57682	TT	GG	1947031381
SNP_P4_173573_57828	NW_004517220.1	Scaffold2210	57828	CC	TT	1947031383

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_173574_57953	NW_004517220.1	Scaffold2210	57953	AA	GG	1947031384
SNP_P4_173575_57961	NW_004517220.1	Scaffold2210	57961	TT	AA	1947031386
SNP_P4_173576_58008	NW_004517220.1	Scaffold2210	58008	AA	GG	1947031388
SNP_P4_173577_58316	NW_004517220.1	Scaffold2210	58316	TT	AA	1947031390
SNP_P4_173578_58330	NW_004517220.1	Scaffold2210	58330	GG	TT	1947031392
SNP_P4_173579_58470	NW_004517220.1	Scaffold2210	58470	AA	GG	1947031394
SNP_P4_173580_60894	NW_004517220.1	Scaffold2210	60894	GG	AA	1947031396
SNP_P4_173581_60897	NW_004517220.1	Scaffold2210	60897	AA	GG	1947031398
SNP_P4_173583_61141	NW_004517220.1	Scaffold2210	61141	CC	TT	1947031400
SNP_P4_173584_61203	NW_004517220.1	Scaffold2210	61203	AA	TT	1947031402
SNP_P4_173585_61219	NW_004517220.1	Scaffold2210	61219	CC	GG	1947031404
SNP_P4_173586_62744	NW_004517220.1	Scaffold2210	62744	TT	CC	1947031406
SNP_P4_173587_62879	NW_004517220.1	Scaffold2210	62879	AA	CC	1947031409
SNP_P4_173588_62966	NW_004517220.1	Scaffold2210	62966	CC	GG	1947031411
SNP_P4_173589_63018	NW_004517220.1	Scaffold2210	63018	GG	TT	1947031413
SNP_P4_173590_63050	NW_004517220.1	Scaffold2210	63050	AA	GG	1947031415
SNP_P4_173591_63110	NW_004517220.1	Scaffold2210	63110	TT	GG	1947031417
SNP_P4_173592_63138	NW_004517220.1	Scaffold2210	63138	CC	TT	1947031419
SNP_P4_173593_63154	NW_004517220.1	Scaffold2210	63154	GG	CC	1947031421
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SNP_P4_173595_63285	NW_004517220.1	Scaffold2210	63285	CC	GG	1947031425
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SNP_P4_173599_65462	NW_004517220.1	Scaffold2210	65462	GG	CC	1947031434
SNP_P4_173600_65506	NW_004517220.1	Scaffold2210	65506	GG	AA	1947031436
SNP_P4_173601_65672	NW_004517220.1	Scaffold2210	65672	TT	CC	1947031438
SNP_P4_173602_65684	NW_004517220.1	Scaffold2210	65684	CC	TT	1947031440
SNP_P4_173603_65748	NW_004517220.1	Scaffold2210	65748	TT	GG	1947031442
SNP_P4_173604_65941	NW_004517220.1	Scaffold2210	65941	TT	CC	1947031444
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SNP_P4_173606_66038	NW_004517220.1	Scaffold2210	66038	TT	AA	1947031448
SNP_P4_173607_66076	NW_004517220.1	Scaffold2210	66076	GG	AA	1947031450
SNP_P4_173608_66094	NW_004517220.1	Scaffold2210	66094	GG	TT	1947031452
SNP_P4_173609_66201	NW_004517220.1	Scaffold2210	66201	TT	AA	1947031454
SNP_P4_173610_66247	NW_004517220.1	Scaffold2210	66247	TT	AA	1947031456
SNP_P4_173611_66398	NW_004517220.1	Scaffold2210	66398	GG	AA	1947031458
SNP_P4_173612_66659	NW_004517220.1	Scaffold2210	66659	GG	AA	1947031460
SNP_P4_173613_66664	NW_004517220.1	Scaffold2210	66664	TT	CC	1947031462
SNP_P4_173614_70162	NW_004517220.1	Scaffold2210	70162	CC	TT	1947031464
SNP_P4_173615_71295	NW_004517220.1	Scaffold2210	71295	CC	TT	1947031466
SNP_P4_173616_71594	NW_004517220.1	Scaffold2210	71594	GG	AA	1947031468

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_173618_71758	NW_004517220.1	Scaffold2210	71758	GG	AA	1947031472
SNP_P4_173619_72009	NW_004517220.1	Scaffold2210	72009	GG	AA	1947031474
SNP_P4_173620_72543	NW_004517220.1	Scaffold2210	72543	TT	AA	1947031476
SNP_P4_173621_7479	NW_004517223.1	Scaffold2214	7479	GG	AA	1947031478
SNP_P4_173622_10814	NW_004517223.1	Scaffold2214	10814	AA	CC	1947031480
SNP_P4_173624_16905	NW_004517223.1	Scaffold2214	16905	AA	CC	1947031482
SNP_P4_173625_17188	NW_004517223.1	Scaffold2214	17188	CC	TT	1947031484
SNP_P4_173626_17306	NW_004517223.1	Scaffold2214	17306	AA	CC	1947031486
SNP_P4_173627_17878	NW_004517223.1	Scaffold2214	17878	AA	GG	1947031487
SNP_P4_173628_9487	NW_004517224.1	Scaffold2216	9487	GG	AA	1947031489
SNP_P4_173629_9491	NW_004517224.1	Scaffold2216	9491	TT	CC	1947031491
SNP_P4_173630_9527	NW_004517224.1	Scaffold2216	9527	CC	GG	1947031493
SNP_P4_173631_9724	NW_004517224.1	Scaffold2216	9724	TT	CC	1947031495
SNP_P4_173632_9921	NW_004517224.1	Scaffold2216	9921	AA	GG	1947031497
SNP_P4_173633_32103	NW_004517224.1	Scaffold2216	32103	GG	TT	1947031499
SNP_P4_173634_32109	NW_004517224.1	Scaffold2216	32109	AA	TT	1947031501
SNP_P4_173635_991	NW_004517226.1	Scaffold2218	991	AA	CC	1947031503
SNP_P4_173636_1354	NW_004517226.1	Scaffold2218	1354	TT	AA	1947031505
SNP_P4_173637_1608	NW_004517226.1	Scaffold2218	1608	CC	TT	1947031507
SNP_P4_173638_2944	NW_004517226.1	Scaffold2218	2944	TT	CC	1947031509
SNP_P4_173639_2993	NW_004517226.1	Scaffold2218	2993	AA	TT	1947031511
SNP_P4_173640_3264	NW_004517226.1	Scaffold2218	3264	AA	TT	1947031513
SNP_P4_173641_10536	NW_004517226.1	Scaffold2218	10536	CC	AA	1947031515
SNP_P4_173642_10571	NW_004517226.1	Scaffold2218	10571	TT	CC	1947031517
SNP_P4_173643_10606	NW_004517226.1	Scaffold2218	10606	GG	AA	1947031519
SNP_P4_173644_10834	NW_004517226.1	Scaffold2218	10834	AA	TT	1947031521
SNP_P4_173645_10934	NW_004517226.1	Scaffold2218	10934	GG	AA	1947031523
SNP_P4_173646_11163	NW_004517226.1	Scaffold2218	11163	TT	CC	1947031525
SNP_P4_173647_11708	NW_004517226.1	Scaffold2218	11708	TT	GG	1947031527
SNP_P4_173648_11925	NW_004517226.1	Scaffold2218	11925	GG	AA	1947031529
SNP_P4_173649_12575	NW_004517226.1	Scaffold2218	12575	GG	AA	1947031531
SNP_P4_173650_10398	NW_004517227.1	Scaffold2219	10398	CC	AA	1947031533
SNP_P4_173651_10451	NW_004517227.1	Scaffold2219	10451	TT	GG	1947031535
SNP_P4_173652_10456	NW_004517227.1	Scaffold2219	10456	AA	GG	1947031537
SNP_P4_173653_771	NW_004517228.1	Scaffold2222	771	AA	TT	1947031539
SNP_P4_173654_1204	NW_004517228.1	Scaffold2222	1204	CC	GG	1947031541
SNP_P4_173656_248	NW_004517230.1	Scaffold2225	248	CC	TT	1947031543
SNP_P4_173657_701	NW_004517230.1	Scaffold2225	701	AA	GG	1947031545
SNP_P4_173658_702	NW_004517230.1	Scaffold2225	702	GG	AA	1947031547
SNP_P4_173659_708	NW_004517230.1	Scaffold2225	708	TT	CC	1947031549
SNP_P4_173660_803	NW_004517230.1	Scaffold2225	803	TT	AA	1947031551

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_173661_1830	NW_004517232.1	Scaffold2227	1830	AA	CC	1947031553
SNP_P4_173662_1851	NW_004517232.1	Scaffold2227	1851	TT	CC	1947031555
SNP_P4_173663_1868	NW_004517232.1	Scaffold2227	1868	GG	TT	1947031557
SNP_P4_173664_2028	NW_004517232.1	Scaffold2227	2028	TT	GG	1947031559
SNP_P4_173665_2739	NW_004517232.1	Scaffold2227	2739	CC	TT	1947031561
SNP_P4_173668_8691	NW_004517232.1	Scaffold2227	8691	TT	GG	1947031563
SNP_P4_173669_16917	NW_004517232.1	Scaffold2227	16917	CC	TT	1947031565
SNP_P4_173670_18606	NW_004517232.1	Scaffold2227	18606	TT	AA	1947031567
SNP_P4_173671_18622	NW_004517232.1	Scaffold2227	18622	TT	CC	1947031569
SNP_P4_173672_27899	NW_004517232.1	Scaffold2227	27899	GG	AA	1947031571
SNP_P4_173673_28015	NW_004517232.1	Scaffold2227	28015	CC	AA	1947031573
SNP_P4_173674_28202	NW_004517232.1	Scaffold2227	28202	GG	TT	1947031575
SNP_P4_173675_29242	NW_004517232.1	Scaffold2227	29242	AA	GG	1947031577
SNP_P4_173676_29258	NW_004517232.1	Scaffold2227	29258	CC	AA	1947031579
SNP_P4_173677_29271	NW_004517232.1	Scaffold2227	29271	TT	CC	1947031581
SNP_P4_173678_29276	NW_004517232.1	Scaffold2227	29276	CC	GG	1947031583
SNP_P4_173679_29299	NW_004517232.1	Scaffold2227	29299	CC	TT	1947031585
SNP_P4_173680_29312	NW_004517232.1	Scaffold2227	29312	TT	CC	1947031587
SNP_P4_173681_29338	NW_004517232.1	Scaffold2227	29338	AA	GG	1947031589
SNP_P4_173682_29399	NW_004517232.1	Scaffold2227	29399	AA	GG	1947031591
SNP_P4_173683_29425	NW_004517232.1	Scaffold2227	29425	AA	GG	1947031593
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SNP_P4_173686_29467	NW_004517232.1	Scaffold2227	29467	TT	CC	1947031598
SNP_P4_173687_29485	NW_004517232.1	Scaffold2227	29485	AA	GG	1947031600
SNP_P4_173688_29500	NW_004517232.1	Scaffold2227	29500	AA	TT	1947031602
SNP_P4_173689_29503	NW_004517232.1	Scaffold2227	29503	GG	AA	1947031604
SNP_P4_173690_29524	NW_004517232.1	Scaffold2227	29524	TT	AA	1947031606
SNP_P4_173691_29530	NW_004517232.1	Scaffold2227	29530	AA	CC	1947031608
SNP_P4_173692_29793	NW_004517232.1	Scaffold2227	29793	GG	AA	1947031610
SNP_P4_173693_29807	NW_004517232.1	Scaffold2227	29807	TT	CC	1947031612
SNP_P4_173694_29809	NW_004517232.1	Scaffold2227	29809	GG	AA	1947031614
SNP_P4_173695_32112	NW_004517232.1	Scaffold2227	32112	TT	AA	1947031616
SNP_P4_173697_42087	NW_004517232.1	Scaffold2227	42087	GG	AA	1947031618
SNP_P4_173698_43752	NW_004517232.1	Scaffold2227	43752	AA	GG	1947031620
SNP_P4_173699_43760	NW_004517232.1	Scaffold2227	43760	GG	AA	1947031622
SNP_P4_173700_53549	NW_004517232.1	Scaffold2227	53549	GG	CC	1947031624
SNP_P4_173701_543	NW_004517236.1	Scaffold2233	543	TT	GG	1947031626
SNP_P4_173702_581	NW_004517236.1	Scaffold2233	581	TT	AA	1947031628
SNP_P4_173703_717	NW_004517236.1	Scaffold2233	717	TT	CC	1947031630
SNP_P4_173704_870	NW_004517236.1	Scaffold2233	870	TT	AA	1947031632
SNP_P4_173705_468	NW_004517238.1	Scaffold2235	468	AA	GG	1947031634

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_173707_477	NW_004517238.1	Scaffold2235	477	CC	GG	1947031638
SNP_P4_173708_1322	NW_004517238.1	Scaffold2235	1322	CC	GG	1947031640
SNP_P4_173709_1499	NW_004517238.1	Scaffold2235	1499	AA	CC	1947031642
SNP_P4_173710_1811	NW_004517238.1	Scaffold2235	1811	GG	AA	1947031645
SNP_P4_173711_1898	NW_004517238.1	Scaffold2235	1898	CC	AA	1947031647
SNP_P4_173712_1950	NW_004517238.1	Scaffold2235	1950	TT	CC	1947031649
SNP_P4_173713_1542	NW_004517240.1	Scaffold2238	1542	AA	CC	1947031651
SNP_P4_173714_8799	NW_004517240.1	Scaffold2238	8799	TT	CC	1947031653
SNP_P4_173715_8819	NW_004517240.1	Scaffold2238	8819	GG	CC	1947031655
SNP_P4_173716_9084	NW_004517240.1	Scaffold2238	9084	TT	AA	1947031657
SNP_P4_173717_9167	NW_004517240.1	Scaffold2238	9167	AA	GG	1947031659
SNP_P4_173718_720	NW_004517241.1	Scaffold2239	720	AA	CC	1947031661
SNP_P4_173719_815	NW_004517241.1	Scaffold2239	815	GG	AA	1947031663
SNP_P4_173720_972	NW_004517241.1	Scaffold2239	972	AA	TT	1947031665
SNP_P4_173721_3645	NW_004517241.1	Scaffold2239	3645	TT	AA	1947031667
SNP_P4_173722_979	NW_004517242.1	Scaffold2240	979	GG	CC	1947031669
SNP_P4_173723_5892	NW_004517243.1	Scaffold2241	5892	GG	AA	1947031672
SNP_P4_173724_5916	NW_004517243.1	Scaffold2241	5916	CC	GG	1947031674
SNP_P4_173725_5979	NW_004517243.1	Scaffold2241	5979	AA	TT	1947031676
SNP_P4_173726_6226	NW_004517243.1	Scaffold2241	6226	AA	TT	1947031678
SNP_P4_173727_6285	NW_004517243.1	Scaffold2241	6285	TT	CC	1947031680
SNP_P4_173728_6524	NW_004517243.1	Scaffold2241	6524	GG	CC	1947031683
SNP_P4_173729_24860	NW_004517243.1	Scaffold2241	24860	AA	GG	1947031685
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SNP_P4_173731_24908	NW_004517243.1	Scaffold2241	24908	CC	TT	1947031690
SNP_P4_173732_378	NW_004517244.1	Scaffold2243	378	GG	CC	1947031692
SNP_P4_173733_647	NW_004517244.1	Scaffold2243	647	AA	CC	1947031694
SNP_P4_173734_648	NW_004517244.1	Scaffold2243	648	TT	CC	1947031696
SNP_P4_173735_678	NW_004517244.1	Scaffold2243	678	CC	AA	1947031698
SNP_P4_173736_797	NW_004517244.1	Scaffold2243	797	CC	GG	1947031700
SNP_P4_173737_823	NW_004517244.1	Scaffold2243	823	AA	GG	1947031702
SNP_P4_173738_971	NW_004517244.1	Scaffold2243	971	CC	TT	1947031705
SNP_P4_173739_6035	NW_004517245.1	Scaffold2244	6035	TT	CC	1947031707
SNP_P4_173740_6071	NW_004517245.1	Scaffold2244	6071	CC	AA	1947031709
SNP_P4_173741_6156	NW_004517245.1	Scaffold2244	6156	AA	GG	1947031711
SNP_P4_173742_6162	NW_004517245.1	Scaffold2244	6162	CC	TT	1947031713
SNP_P4_173743_6173	NW_004517245.1	Scaffold2244	6173	TT	CC	1947031715
SNP_P4_173744_6404	NW_004517245.1	Scaffold2244	6404	GG	AA	1947031717
SNP_P4_173745_824	NW_004517247.1	Scaffold2247	824	AA	GG	1947031720
SNP_P4_173746_207	NW_004517249.1	Scaffold2249	207	TT	CC	1947031722
SNP_P4_173747_228	NW_004517249.1	Scaffold2249	228	GG	AA	1947031724

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_173749_334	NW_004517249.1	Scaffold2249	334	AA	GG	1947031728
SNP_P4_173750_413	NW_004517249.1	Scaffold2249	413	GG	TT	1947031730
SNP_P4_173751_436	NW_004517249.1	Scaffold2249	436	GG	TT	1947031733
SNP_P4_173752_450	NW_004517249.1	Scaffold2249	450	CC	TT	1947031735
SNP_P4_173753_567	NW_004517249.1	Scaffold2249	567	CC	TT	1947031737
SNP_P4_173754_587	NW_004517249.1	Scaffold2249	587	TT	CC	1947031739
SNP_P4_173755_609	NW_004517249.1	Scaffold2249	609	CC	TT	1947031741
SNP_P4_173756_627	NW_004517249.1	Scaffold2249	627	CC	TT	1947031743
SNP_P4_173757_699	NW_004517249.1	Scaffold2249	699	TT	CC	1947031746
SNP_P4_173758_776	NW_004517249.1	Scaffold2249	776	TT	AA	1947031748
SNP_P4_173759_793	NW_004517249.1	Scaffold2249	793	CC	TT	1947031750
SNP_P4_173760_930	NW_004517249.1	Scaffold2249	930	CC	TT	1947031752
SNP_P4_173761_945	NW_004517249.1	Scaffold2249	945	AA	GG	1947031754
SNP_P4_173763_1329	NW_004517249.1	Scaffold2249	1329	AA	CC	1947031756
SNP_P4_173764_1372	NW_004517249.1	Scaffold2249	1372	CC	GG	1947031758
SNP_P4_173765_1379	NW_004517249.1	Scaffold2249	1379	GG	AA	1947031760
SNP_P4_173766_23911	NW_004517249.1	Scaffold2249	23911	AA	GG	1947031762
SNP_P4_173767_25117	NW_004517249.1	Scaffold2249	25117	AA	GG	1947031764
SNP_P4_173768_29452	NW_004517249.1	Scaffold2249	29452	AA	GG	1947031766
SNP_P4_173769_34036	NW_004517249.1	Scaffold2249	34036	TT	CC	1947031768
SNP_P4_173770_36210	NW_004517249.1	Scaffold2249	36210	TT	CC	1947031771
SNP_P4_173771_49072	NW_004517249.1	Scaffold2249	49072	GG	TT	1947031773
SNP_P4_173772_49091	NW_004517249.1	Scaffold2249	49091	TT	GG	1947031775
SNP_P4_173773_49358	NW_004517249.1	Scaffold2249	49358	AA	TT	1947031777
SNP_P4_173774_49587	NW_004517249.1	Scaffold2249	49587	GG	AA	1947031779
SNP_P4_173775_52390	NW_004517249.1	Scaffold2249	52390	TT	AA	1947031781
SNP_P4_173776_52411	NW_004517249.1	Scaffold2249	52411	TT	CC	1947031783
SNP_P4_173777_52416	NW_004517249.1	Scaffold2249	52416	TT	AA	1947031785
SNP_P4_173778_52594	NW_004517249.1	Scaffold2249	52594	TT	AA	1947031787
SNP_P4_173779_52602	NW_004517249.1	Scaffold2249	52602	TT	CC	1947031789
SNP_P4_173780_52645	NW_004517249.1	Scaffold2249	52645	AA	TT	1947031791
SNP_P4_173781_52648	NW_004517249.1	Scaffold2249	52648	AA	TT	1947031793
SNP_P4_173782_52663	NW_004517249.1	Scaffold2249	52663	TT	GG	1947031795
SNP_P4_173783_53756	NW_004517249.1	Scaffold2249	53756	AA	GG	1947031797
SNP_P4_173784_54266	NW_004517249.1	Scaffold2249	54266	TT	GG	1947031799
SNP_P4_173785_54494	NW_004517249.1	Scaffold2249	54494	CC	TT	1947031802
SNP_P4_173786_56871	NW_004517249.1	Scaffold2249	56871	TT	GG	1947031804
SNP_P4_173787_56882	NW_004517249.1	Scaffold2249	56882	CC	AA	1947031806
SNP_P4_173788_56900	NW_004517249.1	Scaffold2249	56900	GG	CC	1947031808
SNP_P4_173789_57297	NW_004517249.1	Scaffold2249	57297	TT	AA	1947031810
SNP_P4_173790_73271	NW_004517249.1	Scaffold2249	73271	AA	TT	1947031812

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_173792_73872	NW_004517249.1	Scaffold2249	73872	GG	TT	1947031816
SNP_P4_173793_73889	NW_004517249.1	Scaffold2249	73889	GG	AA	1947031818
SNP_P4_173794_80858	NW_004517249.1	Scaffold2249	80858	TT	GG	1947031820
SNP_P4_173795_80879	NW_004517249.1	Scaffold2249	80879	TT	GG	1947031822
SNP_P4_173796_82914	NW_004517249.1	Scaffold2249	82914	AA	GG	1947031824
SNP_P4_173797_83451	NW_004517249.1	Scaffold2249	83451	AA	GG	1947031826
SNP_P4_173798_83478	NW_004517249.1	Scaffold2249	83478	AA	GG	1947031828
SNP_P4_173799_83501	NW_004517249.1	Scaffold2249	83501	TT	CC	1947031830
SNP_P4_173800_83539	NW_004517249.1	Scaffold2249	83539	TT	GG	1947031833
SNP_P4_173801_437	NW_004517253.1	Scaffold2254	437	AA	TT	1947031835
SNP_P4_173802_462	NW_004517253.1	Scaffold2254	462	AA	TT	1947031837
SNP_P4_173803_491	NW_004517254.1	Scaffold2256	491	GG	AA	1947031839
SNP_P4_173804_707	NW_004517254.1	Scaffold2256	707	CC	TT	1947031841
SNP_P4_173805_1033	NW_004517254.1	Scaffold2256	1033	CC	TT	1947031843
SNP_P4_173806_1468	NW_004517254.1	Scaffold2256	1468	GG	AA	1947031845
SNP_P4_173807_1621	NW_004517254.1	Scaffold2256	1621	AA	TT	1947031847
SNP_P4_173808_1947	NW_004517254.1	Scaffold2256	1947	TT	CC	1947031849
SNP_P4_173809_2350	NW_004517254.1	Scaffold2256	2350	GG	AA	1947031851
SNP_P4_173810_2900	NW_004517254.1	Scaffold2256	2900	GG	CC	1947031853
SNP_P4_173811_2934	NW_004517254.1	Scaffold2256	2934	AA	GG	1947031855
SNP_P4_173812_3248	NW_004517254.1	Scaffold2256	3248	TT	CC	1947031857
SNP_P4_173813_3282	NW_004517254.1	Scaffold2256	3282	CC	GG	1947031859
SNP_P4_173814_5250	NW_004517254.1	Scaffold2256	5250	GG	CC	1947031861
SNP_P4_173815_602	NW_004517256.1	Scaffold2258	602	TT	CC	1947031863
SNP_P4_173816_623	NW_004517256.1	Scaffold2258	623	AA	TT	1947031865
SNP_P4_173817_2221	NW_004517256.1	Scaffold2258	2221	AA	TT	1947031868
SNP_P4_173818_2311	NW_004517256.1	Scaffold2258	2311	AA	GG	1947031870
SNP_P4_173819_1517	NW_004517259.1	Scaffold2263	1517	TT	AA	1947031872
SNP_P4_173820_1769	NW_004517259.1	Scaffold2263	1769	AA	TT	1947031874
SNP_P4_173821_1790	NW_004517259.1	Scaffold2263	1790	TT	CC	1947031876
SNP_P4_173822_1821	NW_004517259.1	Scaffold2263	1821	TT	CC	1947031878
SNP_P4_173823_1921	NW_004517259.1	Scaffold2263	1921	TT	CC	1947031880
SNP_P4_173824_1990	NW_004517259.1	Scaffold2263	1990	AA	CC	1947031882
SNP_P4_173825_2101	NW_004517259.1	Scaffold2263	2101	TT	AA	1947031884
SNP_P4_173826_2176	NW_004517259.1	Scaffold2263	2176	GG	AA	1947031886
SNP_P4_173827_2195	NW_004517259.1	Scaffold2263	2195	CC	TT	1947031888
SNP_P4_173828_3833	NW_004517260.1	Scaffold2264	3833	GG	AA	1947031890
SNP_P4_173829_313	NW_004517262.1	Scaffold2268	313	GG	AA	1947031893
SNP_P4_173830_1057	NW_004517262.1	Scaffold2268	1057	TT	AA	1947031895
SNP_P4_173831_1077	NW_004517262.1	Scaffold2268	1077	TT	CC	1947031897
SNP_P4_173832_7122	NW_004517262.1	Scaffold2268	7122	AA	GG	1947031899

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_173836_9184	NW_004517262.1	Scaffold2268	9184	AA	GG	1947031903
SNP_P4_173837_9235	NW_004517262.1	Scaffold2268	9235	CC	TT	1947031905
SNP_P4_173839_2205	NW_004517263.1	Scaffold2269	2205	CC	GG	1947031907
SNP_P4_173841_10596	NW_004517263.1	Scaffold2269	10596	AA	GG	1947031909
SNP_P4_173842_10654	NW_004517263.1	Scaffold2269	10654	GG	AA	1947031911
SNP_P4_173843_10655	NW_004517263.1	Scaffold2269	10655	TT	GG	1947031913
SNP_P4_173844_10656	NW_004517263.1	Scaffold2269	10656	CC	TT	1947031915
SNP_P4_173845_10660	NW_004517263.1	Scaffold2269	10660	GG	AA	1947031917
SNP_P4_173847_18469	NW_004517263.1	Scaffold2269	18469	AA	GG	1947031919
SNP_P4_173848_18667	NW_004517263.1	Scaffold2269	18667	TT	CC	1947031921
SNP_P4_173849_20143	NW_004517263.1	Scaffold2269	20143	TT	AA	1947031923
SNP_P4_173850_20399	NW_004517263.1	Scaffold2269	20399	AA	CC	1947031925
SNP_P4_173851_43093	NW_004517263.1	Scaffold2269	43093	TT	GG	1947031927
SNP_P4_173852_43131	NW_004517263.1	Scaffold2269	43131	AA	GG	1947031929
SNP_P4_173853_43136	NW_004517263.1	Scaffold2269	43136	AA	GG	1947031931
SNP_P4_173854_43194	NW_004517263.1	Scaffold2269	43194	AA	CC	1947031933
SNP_P4_173855_43242	NW_004517263.1	Scaffold2269	43242	TT	GG	1947031935
SNP_P4_173856_43296	NW_004517263.1	Scaffold2269	43296	GG	AA	1947031937
SNP_P4_173857_43312	NW_004517263.1	Scaffold2269	43312	TT	GG	1947031939
SNP_P4_173858_43396	NW_004517263.1	Scaffold2269	43396	TT	CC	1947031941
SNP_P4_173859_43406	NW_004517263.1	Scaffold2269	43406	AA	GG	1947031944
SNP_P4_173860_48195	NW_004517263.1	Scaffold2269	48195	AA	GG	1947031946
SNP_P4_173861_48201	NW_004517263.1	Scaffold2269	48201	AA	GG	1947031948
SNP_P4_173862_51981	NW_004517263.1	Scaffold2269	51981	CC	TT	1947031950
SNP_P4_173864_96731	NW_004517263.1	Scaffold2269	96731	CC	TT	1947031952
SNP_P4_173865_118232	NW_004517263.1	Scaffold2269	118232	GG	AA	1947031954
SNP_P4_173866_138814	NW_004517263.1	Scaffold2269	138814	GG	AA	1947031956
SNP_P4_173867_138865	NW_004517263.1	Scaffold2269	138865	CC	GG	1947031958
SNP_P4_173868_138906	NW_004517263.1	Scaffold2269	138906	GG	TT	1947031960
SNP_P4_173869_139090	NW_004517263.1	Scaffold2269	139090	GG	AA	1947031962
SNP_P4_173870_139101	NW_004517263.1	Scaffold2269	139101	AA	GG	1947031964
SNP_P4_173871_139660	NW_004517263.1	Scaffold2269	139660	AA	GG	1947031966
SNP_P4_173872_146106	NW_004517263.1	Scaffold2269	146106	AA	CC	1947031968
SNP_P4_173873_158281	NW_004517263.1	Scaffold2269	158281	AA	GG	1947031970
SNP_P4_173874_158283	NW_004517263.1	Scaffold2269	158283	TT	CC	1947031972
SNP_P4_173875_158302	NW_004517263.1	Scaffold2269	158302	CC	AA	1947031974
SNP_P4_173876_167161	NW_004517263.1	Scaffold2269	167161	CC	TT	1947031976
SNP_P4_173877_170994	NW_004517263.1	Scaffold2269	170994	AA	TT	1947031978
SNP_P4_173878_172906	NW_004517263.1	Scaffold2269	172906	TT	CC	1947031980
SNP_P4_173879_173346	NW_004517263.1	Scaffold2269	173346	AA	GG	1947031982
SNP_P4_173880_173448	NW_004517263.1	Scaffold2269	173448	GG	CC	1947031984

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_173882_173536	NW_004517263.1	Scaffold2269	173536	TT	CC	1947031988
SNP_P4_173883_173665	NW_004517263.1	Scaffold2269	173665	TT	GG	1947031990
SNP_P4_173884_173755	NW_004517263.1	Scaffold2269	173755	TT	CC	1947031992
SNP_P4_173885_173770	NW_004517263.1	Scaffold2269	173770	AA	GG	1947031995
SNP_P4_173886_1544	NW_004517265.1	Scaffold2273	1544	AA	TT	1947031997
SNP_P4_173887_1589	NW_004517265.1	Scaffold2273	1589	GG	AA	1947031999
SNP_P4_173888_1592	NW_004517265.1	Scaffold2273	1592	CC	GG	1947032001
SNP_P4_173889_2585	NW_004517265.1	Scaffold2273	2585	CC	TT	1947032003
SNP_P4_173890_2613	NW_004517265.1	Scaffold2273	2613	GG	AA	1947032005
SNP_P4_173891_2665	NW_004517265.1	Scaffold2273	2665	GG	TT	1947032007
SNP_P4_173892_2861	NW_004517265.1	Scaffold2273	2861	AA	GG	1947032009
SNP_P4_173893_2951	NW_004517265.1	Scaffold2273	2951	TT	CC	1947032011
SNP_P4_173894_3058	NW_004517265.1	Scaffold2273	3058	CC	AA	1947032013
SNP_P4_173895_3070	NW_004517265.1	Scaffold2273	3070	GG	TT	1947032015
SNP_P4_173896_3104	NW_004517265.1	Scaffold2273	3104	GG	TT	1947032017
SNP_P4_173897_3143	NW_004517265.1	Scaffold2273	3143	CC	TT	1947032019
SNP_P4_173898_3203	NW_004517265.1	Scaffold2273	3203	GG	AA	1947032021
SNP_P4_173899_3216	NW_004517265.1	Scaffold2273	3216	GG	AA	1947032024
SNP_P4_173900_3234	NW_004517265.1	Scaffold2273	3234	CC	TT	1947032026
SNP_P4_173901_3261	NW_004517265.1	Scaffold2273	3261	TT	GG	1947032028
SNP_P4_173902_9600	NW_004517265.1	Scaffold2273	9600	GG	AA	1947032030
SNP_P4_173903_12285	NW_004517265.1	Scaffold2273	12285	AA	GG	1947032032
SNP_P4_173904_15590	NW_004517265.1	Scaffold2273	15590	TT	AA	1947032034
SNP_P4_173905_22598	NW_004517265.1	Scaffold2273	22598	CC	TT	1947032036
SNP_P4_173906_22606	NW_004517265.1	Scaffold2273	22606	TT	GG	1947032038
SNP_P4_173907_22745	NW_004517265.1	Scaffold2273	22745	AA	GG	1947032040
SNP_P4_173908_22765	NW_004517265.1	Scaffold2273	22765	AA	TT	1947032042
SNP_P4_173909_22795	NW_004517265.1	Scaffold2273	22795	CC	GG	1947032044
SNP_P4_173910_22809	NW_004517265.1	Scaffold2273	22809	TT	CC	1947032046
SNP_P4_173911_22817	NW_004517265.1	Scaffold2273	22817	AA	TT	1947032048
SNP_P4_173912_22823	NW_004517265.1	Scaffold2273	22823	CC	GG	1947032051
SNP_P4_173913_22850	NW_004517265.1	Scaffold2273	22850	GG	CC	1947032053
SNP_P4_173914_24428	NW_004517265.1	Scaffold2273	24428	GG	TT	1947032055
SNP_P4_173915_24444	NW_004517265.1	Scaffold2273	24444	GG	AA	1947032057
SNP_P4_173916_24808	NW_004517265.1	Scaffold2273	24808	AA	GG	1947032059
SNP_P4_173917_24962	NW_004517265.1	Scaffold2273	24962	AA	TT	1947032061
SNP_P4_173919_25352	NW_004517265.1	Scaffold2273	25352	TT	GG	1947032063
SNP_P4_173920_32840	NW_004517265.1	Scaffold2273	32840	AA	CC	1947032065
SNP_P4_173921_32872	NW_004517265.1	Scaffold2273	32872	CC	TT	1947032067
SNP_P4_173922_32935	NW_004517265.1	Scaffold2273	32935	GG	TT	1947032069
SNP_P4_173923_33128	NW_004517265.1	Scaffold2273	33128	GG	TT	1947032072

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_173925_33172	NW_004517265.1	Scaffold2273	33172	CC	GG	1947032076
SNP_P4_173926_33186	NW_004517265.1	Scaffold2273	33186	TT	GG	1947032078
SNP_P4_173928_1643	NW_004517269.1	Scaffold2280	1643	TT	AA	1947032080
SNP_P4_173929_1655	NW_004517269.1	Scaffold2280	1655	TT	AA	1947032083
SNP_P4_173930_8047	NW_004517271.1	Scaffold2282	8047	TT	GG	1947032085
SNP_P4_173931_8068	NW_004517271.1	Scaffold2282	8068	CC	TT	1947032087
SNP_P4_173932_8079	NW_004517271.1	Scaffold2282	8079	TT	AA	1947032090
SNP_P4_173933_8080	NW_004517271.1	Scaffold2282	8080	GG	AA	1947032092
SNP_P4_173934_8096	NW_004517271.1	Scaffold2282	8096	TT	GG	1947032094
SNP_P4_173935_8113	NW_004517271.1	Scaffold2282	8113	TT	AA	1947032096
SNP_P4_173936_905	NW_004517272.1	Scaffold2285	905	TT	CC	1947032098
SNP_P4_173937_2505	NW_004517272.1	Scaffold2285	2505	AA	GG	1947032100
SNP_P4_173938_2815	NW_004517272.1	Scaffold2285	2815	GG	AA	1947032102
SNP_P4_173939_3067	NW_004517272.1	Scaffold2285	3067	GG	TT	1947032104
SNP_P4_173940_3094	NW_004517272.1	Scaffold2285	3094	TT	AA	1947032106
SNP_P4_173941_3110	NW_004517272.1	Scaffold2285	3110	TT	GG	1947032108
SNP_P4_173942_3157	NW_004517272.1	Scaffold2285	3157	AA	TT	1947032110
SNP_P4_173943_59	NW_004517274.1	Scaffold2287	59	GG	AA	1947032112
SNP_P4_173944_64	NW_004517274.1	Scaffold2287	64	CC	GG	1947032115
SNP_P4_173945_93	NW_004517274.1	Scaffold2287	93	AA	CC	1947032117
SNP_P4_173946_123	NW_004517274.1	Scaffold2287	123	GG	TT	1947032119
SNP_P4_173947_231	NW_004517274.1	Scaffold2287	231	CC	GG	1947032121
SNP_P4_173948_326	NW_004517274.1	Scaffold2287	326	AA	GG	1947032123
SNP_P4_173950_399	NW_004517274.1	Scaffold2287	399	GG	CC	1947032125
SNP_P4_173951_436	NW_004517274.1	Scaffold2287	436	GG	AA	1947032127
SNP_P4_173952_439	NW_004517274.1	Scaffold2287	439	GG	AA	1947032129
SNP_P4_173953_506	NW_004517274.1	Scaffold2287	506	GG	AA	1947032131
SNP_P4_173954_528	NW_004517274.1	Scaffold2287	528	CC	TT	1947032133
SNP_P4_173955_591	NW_004517274.1	Scaffold2287	591	TT	CC	1947032135
SNP_P4_173956_630	NW_004517274.1	Scaffold2287	630	TT	GG	1947032137
SNP_P4_173957_659	NW_004517274.1	Scaffold2287	659	GG	AA	1947032139
SNP_P4_173958_675	NW_004517274.1	Scaffold2287	675	TT	GG	1947032141
SNP_P4_173959_797	NW_004517274.1	Scaffold2287	797	GG	AA	1947032143
SNP_P4_173960_885	NW_004517274.1	Scaffold2287	885	CC	TT	1947032145
SNP_P4_173961_910	NW_004517274.1	Scaffold2287	910	GG	AA	1947032147
SNP_P4_173962_979	NW_004517274.1	Scaffold2287	979	GG	TT	1947032149
SNP_P4_173963_1086	NW_004517274.1	Scaffold2287	1086	AA	TT	1947032151
SNP_P4_173964_1092	NW_004517274.1	Scaffold2287	1092	GG	AA	1947032153
SNP_P4_173965_1125	NW_004517274.1	Scaffold2287	1125	AA	GG	1947032155
SNP_P4_173966_3235	NW_004517275.1	Scaffold2289	3235	CC	TT	1947032157
SNP_P4_173967_3278	NW_004517275.1	Scaffold2289	3278	TT	AA	1947032159

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_173969_9611	NW_004517275.1	Scaffold2289	9611	AA	CC	1947032164
SNP_P4_173970_9827	NW_004517275.1	Scaffold2289	9827	AA	GG	1947032166
SNP_P4_173971_10640	NW_004517275.1	Scaffold2289	10640	GG	TT	1947032168
SNP_P4_173972_11018	NW_004517275.1	Scaffold2289	11018	AA	GG	1947032170
SNP_P4_173973_11997	NW_004517275.1	Scaffold2289	11997	CC	GG	1947032172
SNP_P4_173974_12320	NW_004517275.1	Scaffold2289	12320	GG	AA	1947032174
SNP_P4_173975_12379	NW_004517275.1	Scaffold2289	12379	TT	CC	1947032176
SNP_P4_173976_12701	NW_004517275.1	Scaffold2289	12701	GG	CC	1947032178
SNP_P4_173977_12817	NW_004517275.1	Scaffold2289	12817	GG	AA	1947032179
SNP_P4_173979_13134	NW_004517275.1	Scaffold2289	13134	AA	GG	1947032180
SNP_P4_173980_13154	NW_004517275.1	Scaffold2289	13154	AA	TT	1947032181
SNP_P4_173981_13303	NW_004517275.1	Scaffold2289	13303	CC	TT	1947032182
SNP_P4_173982_13315	NW_004517275.1	Scaffold2289	13315	AA	GG	1947032183
SNP_P4_173983_13316	NW_004517275.1	Scaffold2289	13316	AA	GG	1947032184
SNP_P4_173984_15352	NW_004517275.1	Scaffold2289	15352	GG	TT	1947032185
SNP_P4_173985_15381	NW_004517275.1	Scaffold2289	15381	AA	GG	1947032187
SNP_P4_173986_15611	NW_004517275.1	Scaffold2289	15611	AA	GG	1947032189
SNP_P4_173987_15688	NW_004517275.1	Scaffold2289	15688	CC	TT	1947032191
SNP_P4_173988_22629	NW_004517276.1	Scaffold2290	22629	AA	CC	1947032193
SNP_P4_173989_22634	NW_004517276.1	Scaffold2290	22634	TT	CC	1947032195
SNP_P4_173990_22641	NW_004517276.1	Scaffold2290	22641	GG	CC	1947032197
SNP_P4_173991_22663	NW_004517276.1	Scaffold2290	22663	TT	CC	1947032199
SNP_P4_173992_22675	NW_004517276.1	Scaffold2290	22675	AA	GG	1947032201
SNP_P4_173993_41915	NW_004517276.1	Scaffold2290	41915	GG	CC	1947032202
SNP_P4_173994_69	NW_004517277.1	Scaffold2291	69	AA	GG	1947032204
SNP_P4_173995_112	NW_004517277.1	Scaffold2291	112	AA	CC	1947032206
SNP_P4_173996_1952	NW_004517277.1	Scaffold2291	1952	TT	CC	1947032208
SNP_P4_173997_1961	NW_004517277.1	Scaffold2291	1961	CC	TT	1947032210
SNP_P4_173998_1979	NW_004517277.1	Scaffold2291	1979	AA	GG	1947032212
SNP_P4_173999_2030	NW_004517277.1	Scaffold2291	2030	GG	AA	1947032214
SNP_P4_174000_1353	NW_004517285.1	Scaffold2301	1353	GG	CC	1947032216
SNP_P4_174001_1375	NW_004517285.1	Scaffold2301	1375	AA	GG	1947032218
SNP_P4_174002_1410	NW_004517285.1	Scaffold2301	1410	CC	TT	1947032220
SNP_P4_174004_1628	NW_004517285.1	Scaffold2301	1628	AA	GG	1947032222
SNP_P4_174005_1668	NW_004517285.1	Scaffold2301	1668	CC	AA	1947032224
SNP_P4_174006_1754	NW_004517285.1	Scaffold2301	1754	TT	GG	1947032226
SNP_P4_174007_1800	NW_004517285.1	Scaffold2301	1800	CC	TT	1947032228
SNP_P4_174008_1879	NW_004517285.1	Scaffold2301	1879	AA	CC	1947032230
SNP_P4_174009_1885	NW_004517285.1	Scaffold2301	1885	GG	AA	1947032232
SNP_P4_174010_1886	NW_004517285.1	Scaffold2301	1886	GG	CC	1947032234
SNP_P4_174011_1956	NW_004517285.1	Scaffold2301	1956	TT	CC	1947032236

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_174012_1984	NW_004517285.1	Scaffold2301	1984	CC	GG	1947032238
SNP_P4_174013_1988	NW_004517285.1	Scaffold2301	1988	TT	CC	1947032240
SNP_P4_174014_1997	NW_004517285.1	Scaffold2301	1997	TT	CC	1947032242
SNP_P4_174015_2072	NW_004517285.1	Scaffold2301	2072	CC	TT	1947032243
SNP_P4_174016_2298	NW_004517285.1	Scaffold2301	2298	AA	GG	1947032245
SNP_P4_174017_2316	NW_004517285.1	Scaffold2301	2316	AA	GG	1947032247
SNP_P4_174018_2422	NW_004517285.1	Scaffold2301	2422	CC	GG	1947032249
SNP_P4_174019_2457	NW_004517285.1	Scaffold2301	2457	AA	GG	1947032251
SNP_P4_174020_2596	NW_004517285.1	Scaffold2301	2596	GG	TT	1947032253
SNP_P4_174021_2766	NW_004517285.1	Scaffold2301	2766	GG	AA	1947032255
SNP_P4_174022_2806	NW_004517285.1	Scaffold2301	2806	AA	TT	1947032257
SNP_P4_174023_2812	NW_004517285.1	Scaffold2301	2812	TT	AA	1947032259
SNP_P4_174024_3018	NW_004517285.1	Scaffold2301	3018	AA	GG	1947032261
SNP_P4_174025_4825	NW_004517285.1	Scaffold2301	4825	CC	TT	1947032263
SNP_P4_174026_4840	NW_004517285.1	Scaffold2301	4840	TT	GG	1947032265
SNP_P4_174027_6019	NW_004517285.1	Scaffold2301	6019	GG	TT	1947032267
SNP_P4_174028_6055	NW_004517285.1	Scaffold2301	6055	CC	GG	1947032269
SNP_P4_174029_6062	NW_004517285.1	Scaffold2301	6062	TT	CC	1947032271
SNP_P4_174030_6258	NW_004517285.1	Scaffold2301	6258	GG	TT	1947032273
SNP_P4_174032_6484	NW_004517285.1	Scaffold2301	6484	GG	CC	1947032275
SNP_P4_174033_6560	NW_004517285.1	Scaffold2301	6560	TT	CC	1947032277
SNP_P4_174034_7927	NW_004517285.1	Scaffold2301	7927	TT	CC	1947032279
SNP_P4_174035_8048	NW_004517285.1	Scaffold2301	8048	TT	CC	1947032281
SNP_P4_174036_8087	NW_004517285.1	Scaffold2301	8087	AA	GG	1947032283
SNP_P4_174037_8102	NW_004517285.1	Scaffold2301	8102	TT	CC	1947032285
SNP_P4_174038_8120	NW_004517285.1	Scaffold2301	8120	CC	TT	1947032287
SNP_P4_174039_8123	NW_004517285.1	Scaffold2301	8123	AA	GG	1947032289
SNP_P4_174040_8156	NW_004517285.1	Scaffold2301	8156	CC	TT	1947032291
SNP_P4_174041_8210	NW_004517285.1	Scaffold2301	8210	AA	GG	1947032293
SNP_P4_174042_8275	NW_004517285.1	Scaffold2301	8275	TT	CC	1947032295
SNP_P4_174043_8287	NW_004517285.1	Scaffold2301	8287	TT	CC	1947032297
SNP_P4_174044_8304	NW_004517285.1	Scaffold2301	8304	CC	GG	1947032299
SNP_P4_174045_8330	NW_004517285.1	Scaffold2301	8330	GG	TT	1947032301
SNP_P4_174046_8357	NW_004517285.1	Scaffold2301	8357	TT	CC	1947032303
SNP_P4_174047_8396	NW_004517285.1	Scaffold2301	8396	AA	GG	1947032305
SNP_P4_174048_8416	NW_004517285.1	Scaffold2301	8416	CC	GG	1947032307
SNP_P4_174049_8429	NW_004517285.1	Scaffold2301	8429	CC	AA	1947032309
SNP_P4_174050_8453	NW_004517285.1	Scaffold2301	8453	AA	GG	1947032311
SNP_P4_174051_8495	NW_004517285.1	Scaffold2301	8495	AA	GG	1947032313
SNP_P4_174052_15413	NW_004517285.1	Scaffold2301	15413	AA	TT	1947032315
SNP_P4_174053_18125	NW_004517285.1	Scaffold2301	18125	AA	CC	1947032317
SNP_P4_174054_18154	NW_004517285.1	Scaffold2301	18154	CC	TT	1947032319

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_174055_18175	NW_004517285.1	Scaffold2301	18175	TT	CC	1947032321
SNP_P4_174056_18192	NW_004517285.1	Scaffold2301	18192	TT	AA	1947032323
SNP_P4_174057_18241	NW_004517285.1	Scaffold2301	18241	CC	TT	1947032325
SNP_P4_174058_18265	NW_004517285.1	Scaffold2301	18265	CC	TT	1947032327
SNP_P4_174059_18330	NW_004517285.1	Scaffold2301	18330	AA	TT	1947032329
SNP_P4_174060_18491	NW_004517285.1	Scaffold2301	18491	TT	GG	1947032330
SNP_P4_174061_18515	NW_004517285.1	Scaffold2301	18515	TT	GG	1947032332
SNP_P4_174062_18552	NW_004517285.1	Scaffold2301	18552	TT	CC	1947032334
SNP_P4_174063_18609	NW_004517285.1	Scaffold2301	18609	AA	GG	1947032336
SNP_P4_174064_18611	NW_004517285.1	Scaffold2301	18611	GG	CC	1947032338
SNP_P4_174065_18663	NW_004517285.1	Scaffold2301	18663	GG	AA	1947032340
SNP_P4_174066_18687	NW_004517285.1	Scaffold2301	18687	AA	GG	1947032342
SNP_P4_174067_18693	NW_004517285.1	Scaffold2301	18693	CC	TT	1947032344
SNP_P4_174069_18732	NW_004517285.1	Scaffold2301	18732	TT	AA	1947032346
SNP_P4_174070_22439	NW_004517285.1	Scaffold2301	22439	AA	TT	1947032348
SNP_P4_174071_22500	NW_004517285.1	Scaffold2301	22500	GG	TT	1947032350
SNP_P4_174072_22522	NW_004517285.1	Scaffold2301	22522	CC	GG	1947032352
SNP_P4_174073_22532	NW_004517285.1	Scaffold2301	22532	TT	AA	1947032354
SNP_P4_174074_22613	NW_004517285.1	Scaffold2301	22613	AA	CC	1947032356
SNP_P4_174075_22670	NW_004517285.1	Scaffold2301	22670	CC	TT	1947032358
SNP_P4_174076_22715	NW_004517285.1	Scaffold2301	22715	TT	GG	1947032359
SNP_P4_174078_22883	NW_004517285.1	Scaffold2301	22883	TT	AA	1947032361
SNP_P4_174079_22891	NW_004517285.1	Scaffold2301	22891	CC	TT	1947032363
SNP_P4_174080_22998	NW_004517285.1	Scaffold2301	22998	AA	GG	1947032365
SNP_P4_174081_23016	NW_004517285.1	Scaffold2301	23016	AA	GG	1947032367
SNP_P4_174082_23021	NW_004517285.1	Scaffold2301	23021	CC	TT	1947032369
SNP_P4_174083_23022	NW_004517285.1	Scaffold2301	23022	AA	GG	1947032371
SNP_P4_174084_29829	NW_004517285.1	Scaffold2301	29829	TT	CC	1947032373
SNP_P4_174085_29912	NW_004517285.1	Scaffold2301	29912	TT	GG	1947032375
SNP_P4_174086_30100	NW_004517285.1	Scaffold2301	30100	TT	GG	1947032377
SNP_P4_174087_30310	NW_004517285.1	Scaffold2301	30310	GG	AA	1947032379
SNP_P4_174088_30333	NW_004517285.1	Scaffold2301	30333	GG	CC	1947032381
SNP_P4_174089_30344	NW_004517285.1	Scaffold2301	30344	AA	GG	1947032383
SNP_P4_174090_30480	NW_004517285.1	Scaffold2301	30480	CC	AA	1947032385
SNP_P4_174091_31879	NW_004517285.1	Scaffold2301	31879	GG	AA	1947032387
SNP_P4_174092_32024	NW_004517285.1	Scaffold2301	32024	GG	AA	1947032389
SNP_P4_174093_32044	NW_004517285.1	Scaffold2301	32044	GG	AA	1947032390
SNP_P4_174094_32049	NW_004517285.1	Scaffold2301	32049	GG	AA	1947032392
SNP_P4_174095_32162	NW_004517285.1	Scaffold2301	32162	CC	TT	1947032394
SNP_P4_174096_32179	NW_004517285.1	Scaffold2301	32179	CC	TT	1947032396
SNP_P4_174097_32192	NW_004517285.1	Scaffold2301	32192	AA	GG	1947032398
SNP_P4_174098_32231	NW_004517285.1	Scaffold2301	32231	TT	CC	1947032400

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_174099_32237	NW_004517285.1	Scaffold2301	32237	TT	GG	1947032402
SNP_P4_174100_32243	NW_004517285.1	Scaffold2301	32243	CC	TT	1947032404
SNP_P4_174101_32259	NW_004517285.1	Scaffold2301	32259	AA	TT	1947032406
SNP_P4_174102_32309	NW_004517285.1	Scaffold2301	32309	TT	CC	1947032408
SNP_P4_174103_32456	NW_004517285.1	Scaffold2301	32456	CC	TT	1947032410
SNP_P4_174104_32682	NW_004517285.1	Scaffold2301	32682	GG	CC	1947032412
SNP_P4_174105_32687	NW_004517285.1	Scaffold2301	32687	GG	TT	1947032414
SNP_P4_174106_32710	NW_004517285.1	Scaffold2301	32710	AA	GG	1947032416
SNP_P4_174107_32795	NW_004517285.1	Scaffold2301	32795	GG	AA	1947032418
SNP_P4_174108_32833	NW_004517285.1	Scaffold2301	32833	TT	CC	1947032420
SNP_P4_174109_32836	NW_004517285.1	Scaffold2301	32836	GG	AA	1947032422
SNP_P4_174110_34638	NW_004517285.1	Scaffold2301	34638	AA	GG	1947032424
SNP_P4_174111_34678	NW_004517285.1	Scaffold2301	34678	AA	GG	1947032426
SNP_P4_174112_34874	NW_004517285.1	Scaffold2301	34874	GG	CC	1947032428
SNP_P4_174113_34883	NW_004517285.1	Scaffold2301	34883	TT	AA	1947032430
SNP_P4_174114_35155	NW_004517285.1	Scaffold2301	35155	GG	AA	1947032432
SNP_P4_174115_35264	NW_004517285.1	Scaffold2301	35264	AA	GG	1947032434
SNP_P4_174116_35320	NW_004517285.1	Scaffold2301	35320	AA	GG	1947032436
SNP_P4_174117_35332	NW_004517285.1	Scaffold2301	35332	AA	GG	1947032438
SNP_P4_174118_35551	NW_004517285.1	Scaffold2301	35551	CC	TT	1947032440
SNP_P4_174119_35634	NW_004517285.1	Scaffold2301	35634	AA	TT	1947032442
SNP_P4_174120_35650	NW_004517285.1	Scaffold2301	35650	CC	TT	1947032444
SNP_P4_174121_35762	NW_004517285.1	Scaffold2301	35762	AA	CC	1947032446
SNP_P4_174122_35770	NW_004517285.1	Scaffold2301	35770	CC	TT	1947032448
SNP_P4_174123_35775	NW_004517285.1	Scaffold2301	35775	CC	TT	1947032450
SNP_P4_174124_35850	NW_004517285.1	Scaffold2301	35850	GG	TT	1947032452
SNP_P4_174125_35872	NW_004517285.1	Scaffold2301	35872	AA	TT	1947032454
SNP_P4_174126_35918	NW_004517285.1	Scaffold2301	35918	GG	AA	1947032456
SNP_P4_174127_36028	NW_004517285.1	Scaffold2301	36028	TT	CC	1947032458
SNP_P4_174128_36069	NW_004517285.1	Scaffold2301	36069	GG	CC	1947032460
SNP_P4_174129_36073	NW_004517285.1	Scaffold2301	36073	TT	GG	1947032462
SNP_P4_174130_36152	NW_004517285.1	Scaffold2301	36152	CC	GG	1947032464
SNP_P4_174131_40506	NW_004517285.1	Scaffold2301	40506	GG	AA	1947032466
SNP_P4_174132_40511	NW_004517285.1	Scaffold2301	40511	CC	AA	1947032468
SNP_P4_174133_40525	NW_004517285.1	Scaffold2301	40525	CC	TT	1947032470
SNP_P4_174134_40727	NW_004517285.1	Scaffold2301	40727	TT	GG	1947032472
SNP_P4_174135_40843	NW_004517285.1	Scaffold2301	40843	TT	CC	1947032474
SNP_P4_174136_41074	NW_004517285.1	Scaffold2301	41074	CC	TT	1947032476
SNP_P4_174137_41075	NW_004517285.1	Scaffold2301	41075	AA	TT	1947032478
SNP_P4_174138_41102	NW_004517285.1	Scaffold2301	41102	GG	AA	1947032480
SNP_P4_174139_41555	NW_004517285.1	Scaffold2301	41555	GG	AA	1947032482
SNP_P4_174140_41599	NW_004517285.1	Scaffold2301	41599	CC	TT	1947032484

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_174141_43228	NW_004517285.1	Scaffold2301	43228	CC	GG	1947032486
SNP_P4_174142_43500	NW_004517285.1	Scaffold2301	43500	TT	GG	1947032488
SNP_P4_174143_43509	NW_004517285.1	Scaffold2301	43509	TT	GG	1947032490
SNP_P4_174144_43539	NW_004517285.1	Scaffold2301	43539	TT	CC	1947032492
SNP_P4_174145_53627	NW_004517285.1	Scaffold2301	53627	GG	AA	1947032494
SNP_P4_174146_53654	NW_004517285.1	Scaffold2301	53654	TT	AA	1947032496
SNP_P4_174147_53818	NW_004517285.1	Scaffold2301	53818	GG	TT	1947032498
SNP_P4_174148_53855	NW_004517285.1	Scaffold2301	53855	GG	TT	1947032500
SNP_P4_174149_53985	NW_004517285.1	Scaffold2301	53985	GG	TT	1947032502
SNP_P4_174150_54032	NW_004517285.1	Scaffold2301	54032	AA	CC	1947032504
SNP_P4_174152_54397	NW_004517285.1	Scaffold2301	54397	AA	CC	1947032506
SNP_P4_174153_54458	NW_004517285.1	Scaffold2301	54458	TT	GG	1947032508
SNP_P4_174154_54462	NW_004517285.1	Scaffold2301	54462	GG	AA	1947032510
SNP_P4_174156_54844	NW_004517285.1	Scaffold2301	54844	GG	AA	1947032512
SNP_P4_174157_55716	NW_004517285.1	Scaffold2301	55716	TT	CC	1947032514
SNP_P4_174158_55775	NW_004517285.1	Scaffold2301	55775	GG	CC	1947032515
SNP_P4_174159_57427	NW_004517285.1	Scaffold2301	57427	AA	GG	1947032517
SNP_P4_174160_57641	NW_004517285.1	Scaffold2301	57641	CC	TT	1947032519
SNP_P4_174161_57756	NW_004517285.1	Scaffold2301	57756	CC	TT	1947032521
SNP_P4_174162_57774	NW_004517285.1	Scaffold2301	57774	CC	GG	1947032523
SNP_P4_174163_57872	NW_004517285.1	Scaffold2301	57872	TT	CC	1947032525
SNP_P4_174164_57873	NW_004517285.1	Scaffold2301	57873	GG	AA	1947032527
SNP_P4_174165_57895	NW_004517285.1	Scaffold2301	57895	CC	TT	1947032529
SNP_P4_174166_61324	NW_004517285.1	Scaffold2301	61324	GG	TT	1947032531
SNP_P4_174167_61420	NW_004517285.1	Scaffold2301	61420	TT	CC	1947032533
SNP_P4_174168_61465	NW_004517285.1	Scaffold2301	61465	TT	AA	1947032535
SNP_P4_174169_61535	NW_004517285.1	Scaffold2301	61535	GG	AA	1947032537
SNP_P4_174170_61556	NW_004517285.1	Scaffold2301	61556	AA	GG	1947032539
SNP_P4_174171_61612	NW_004517285.1	Scaffold2301	61612	CC	GG	1947032541
SNP_P4_174172_61660	NW_004517285.1	Scaffold2301	61660	TT	CC	1947032543
SNP_P4_174173_61766	NW_004517285.1	Scaffold2301	61766	AA	GG	1947032544
SNP_P4_174174_61832	NW_004517285.1	Scaffold2301	61832	TT	CC	1947032546
SNP_P4_174175_64440	NW_004517285.1	Scaffold2301	64440	GG	AA	1947032548
SNP_P4_174177_64479	NW_004517285.1	Scaffold2301	64479	AA	GG	1947032550
SNP_P4_174179_64756	NW_004517285.1	Scaffold2301	64756	GG	CC	1947032552
SNP_P4_174180_64800	NW_004517285.1	Scaffold2301	64800	GG	AA	1947032554
SNP_P4_174181_64809	NW_004517285.1	Scaffold2301	64809	GG	AA	1947032556
SNP_P4_174182_64822	NW_004517285.1	Scaffold2301	64822	GG	TT	1947032558
SNP_P4_174183_65036	NW_004517285.1	Scaffold2301	65036	TT	GG	1947032560
SNP_P4_174184_65185	NW_004517285.1	Scaffold2301	65185	TT	AA	1947032562
SNP_P4_174185_65219	NW_004517285.1	Scaffold2301	65219	GG	AA	1947032564
SNP_P4_174186_65232	NW_004517285.1	Scaffold2301	65232	TT	GG	1947032566

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_174187_65266	NW_004517285.1	Scaffold2301	65266	AA	GG	1947032568
SNP_P4_174189_65354	NW_004517285.1	Scaffold2301	65354	TT	AA	1947032570
SNP_P4_174190_65427	NW_004517285.1	Scaffold2301	65427	AA	TT	1947032572
SNP_P4_174191_69173	NW_004517285.1	Scaffold2301	69173	AA	TT	1947032574
SNP_P4_174192_69399	NW_004517285.1	Scaffold2301	69399	CC	AA	1947032576
SNP_P4_174193_4149	NW_004517292.1	Scaffold2309	4149	GG	CC	1947032578
SNP_P4_174194_4235	NW_004517292.1	Scaffold2309	4235	CC	TT	1947032580
SNP_P4_174195_446	NW_004517293.1	Scaffold2311	446	TT	GG	1947032582
SNP_P4_174196_483	NW_004517293.1	Scaffold2311	483	AA	GG	1947032584
SNP_P4_174198_33926	NW_004517293.1	Scaffold2311	33926	TT	CC	1947032586
SNP_P4_174199_46468	NW_004517293.1	Scaffold2311	46468	TT	CC	1947032588
SNP_P4_174200_46597	NW_004517293.1	Scaffold2311	46597	TT	CC	1947032589
SNP_P4_174201_46664	NW_004517293.1	Scaffold2311	46664	CC	TT	1947032591
SNP_P4_174202_46816	NW_004517293.1	Scaffold2311	46816	TT	CC	1947032593
SNP_P4_174203_46904	NW_004517293.1	Scaffold2311	46904	AA	CC	1947032595
SNP_P4_174204_46908	NW_004517293.1	Scaffold2311	46908	TT	GG	1947032597
SNP_P4_174205_46940	NW_004517293.1	Scaffold2311	46940	CC	TT	1947032599
SNP_P4_174206_50622	NW_004517293.1	Scaffold2311	50622	AA	GG	1947032601
SNP_P4_174207_50702	NW_004517293.1	Scaffold2311	50702	AA	GG	1947032603
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SNP_P4_174209_95317	NW_004517293.1	Scaffold2311	95317	AA	CC	1947032607
SNP_P4_174210_95332	NW_004517293.1	Scaffold2311	95332	CC	TT	1947032609
SNP_P4_174211_95346	NW_004517293.1	Scaffold2311	95346	AA	CC	1947032611
SNP_P4_174212_96149	NW_004517293.1	Scaffold2311	96149	TT	CC	1947032613
SNP_P4_174213_354	NW_004517295.1	Scaffold2314	354	AA	GG	1947032615
SNP_P4_174214_644	NW_004517295.1	Scaffold2314	644	GG	TT	1947032617
SNP_P4_174216_2136	NW_004517295.1	Scaffold2314	2136	AA	TT	1947032619
SNP_P4_174217_192	NW_004517297.1	Scaffold2319	192	GG	CC	1947032621
SNP_P4_174218_427	NW_004517297.1	Scaffold2319	427	TT	AA	1947032623
SNP_P4_174219_492	NW_004517297.1	Scaffold2319	492	AA	CC	1947032625
SNP_P4_174220_518	NW_004517297.1	Scaffold2319	518	AA	TT	1947032627
SNP_P4_174221_636	NW_004517297.1	Scaffold2319	636	AA	TT	1947032629
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SNP_P4_174223_852	NW_004517300.1	Scaffold2322	852	TT	CC	1947032633
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SNP_P4_174227_6488	NW_004517300.1	Scaffold2322	6488	GG	AA	1947032641
SNP_P4_174228_6905	NW_004517300.1	Scaffold2322	6905	TT	AA	1947032643
SNP_P4_174229_7166	NW_004517300.1	Scaffold2322	7166	GG	AA	1947032645
SNP_P4_174230_2606	NW_004517302.1	Scaffold2325	2606	AA	GG	1947032647
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_174234_51667	NW_004517302.1	Scaffold2325	51667	AA	GG	1947032655
SNP_P4_174235_51867	NW_004517302.1	Scaffold2325	51867	AA	GG	1947032657
SNP_P4_174236_52091	NW_004517302.1	Scaffold2325	52091	TT	GG	1947032659
SNP_P4_174237_52098	NW_004517302.1	Scaffold2325	52098	AA	GG	1947032661
SNP_P4_174238_53024	NW_004517302.1	Scaffold2325	53024	TT	CC	1947032663
SNP_P4_174239_58369	NW_004517302.1	Scaffold2325	58369	CC	GG	1947032665
SNP_P4_174240_58431	NW_004517302.1	Scaffold2325	58431	TT	AA	1947032667
SNP_P4_174241_58791	NW_004517302.1	Scaffold2325	58791	TT	CC	1947032669
SNP_P4_174242_58793	NW_004517302.1	Scaffold2325	58793	GG	CC	1947032671
SNP_P4_174243_58908	NW_004517302.1	Scaffold2325	58908	AA	CC	1947032673
SNP_P4_174245_59732	NW_004517302.1	Scaffold2325	59732	TT	AA	1947032675
SNP_P4_174246_59795	NW_004517302.1	Scaffold2325	59795	AA	TT	1947032677
SNP_P4_174247_59796	NW_004517302.1	Scaffold2325	59796	CC	TT	1947032679
SNP_P4_174248_60057	NW_004517302.1	Scaffold2325	60057	CC	TT	1947032681
SNP_P4_174249_60095	NW_004517302.1	Scaffold2325	60095	GG	CC	1947032683
SNP_P4_174250_60508	NW_004517302.1	Scaffold2325	60508	AA	TT	1947032685
SNP_P4_174251_60620	NW_004517302.1	Scaffold2325	60620	GG	AA	1947032687
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SNP_P4_174254_60973	NW_004517302.1	Scaffold2325	60973	TT	AA	1947032692
SNP_P4_174255_61071	NW_004517302.1	Scaffold2325	61071	GG	AA	1947032694
SNP_P4_174256_61081	NW_004517302.1	Scaffold2325	61081	AA	TT	1947032696
SNP_P4_174257_7292	NW_004517303.1	Scaffold2328	7292	AA	TT	1947032698
SNP_P4_174258_9013	NW_004517303.1	Scaffold2328	9013	TT	AA	1947032700
SNP_P4_174259_10989	NW_004517303.1	Scaffold2328	10989	AA	CC	1947032702
SNP_P4_174260_13392	NW_004517303.1	Scaffold2328	13392	TT	CC	1947032704
SNP_P4_174261_13454	NW_004517303.1	Scaffold2328	13454	TT	CC	1947032706
SNP_P4_174262_13458	NW_004517303.1	Scaffold2328	13458	AA	CC	1947032708
SNP_P4_174263_13459	NW_004517303.1	Scaffold2328	13459	TT	CC	1947032710
SNP_P4_174264_13573	NW_004517303.1	Scaffold2328	13573	CC	TT	1947032712
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SNP_P4_174267_13777	NW_004517303.1	Scaffold2328	13777	TT	AA	1947032716
SNP_P4_174268_13782	NW_004517303.1	Scaffold2328	13782	AA	GG	1947032718
SNP_P4_174269_13939	NW_004517303.1	Scaffold2328	13939	TT	GG	1947032720
SNP_P4_174270_13956	NW_004517303.1	Scaffold2328	13956	TT	CC	1947032722
SNP_P4_174271_37973	NW_004517305.1	Scaffold2330	37973	CC	TT	1947032724
SNP_P4_174272_44434	NW_004517305.1	Scaffold2330	44434	TT	GG	1947032726
SNP_P4_174273_94925	NW_004517305.1	Scaffold2330	94925	AA	TT	1947032728
SNP_P4_174274_94933	NW_004517305.1	Scaffold2330	94933	TT	AA	1947032730
SNP_P4_174275_107959	NW_004517305.1	Scaffold2330	107959	TT	AA	1947032732

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_174277_105	NW_004517306.1	Scaffold2331	105	TT	CC	1947032736
SNP_P4_174279_117	NW_004517306.1	Scaffold2331	117	GG	CC	1947032738
SNP_P4_174280_138	NW_004517306.1	Scaffold2331	138	GG	AA	1947032740
SNP_P4_174281_64	NW_004517309.1	Scaffold2337	64	GG	TT	1947032742
SNP_P4_174282_745	NW_004517313.1	Scaffold2342	745	CC	TT	1947032744
SNP_P4_174283_944	NW_004517313.1	Scaffold2342	944	CC	AA	1947032746
SNP_P4_174284_981	NW_004517313.1	Scaffold2342	981	CC	TT	1947032748
SNP_P4_174285_1020	NW_004517313.1	Scaffold2342	1020	TT	AA	1947032750
SNP_P4_174286_4390	NW_004517313.1	Scaffold2342	4390	GG	AA	1947032752
SNP_P4_174287_23194	NW_004517313.1	Scaffold2342	23194	AA	TT	1947032754
SNP_P4_174289_19833	NW_004517314.1	Scaffold2343	19833	AA	GG	1947032756
SNP_P4_174290_20141	NW_004517314.1	Scaffold2343	20141	CC	TT	1947032758
SNP_P4_174291_23787	NW_004517314.1	Scaffold2343	23787	GG	TT	1947032760
SNP_P4_174292_24252	NW_004517314.1	Scaffold2343	24252	TT	CC	1947032762
SNP_P4_174293_30885	NW_004517314.1	Scaffold2343	30885	AA	GG	1947032764
SNP_P4_174294_33326	NW_004517314.1	Scaffold2343	33326	AA	CC	1947032766
SNP_P4_174295_45549	NW_004517314.1	Scaffold2343	45549	CC	TT	1947032768
SNP_P4_174296_45593	NW_004517314.1	Scaffold2343	45593	AA	GG	1947032770
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SNP_P4_174298_45744	NW_004517314.1	Scaffold2343	45744	CC	GG	1947032774
SNP_P4_174299_45823	NW_004517314.1	Scaffold2343	45823	AA	GG	1947032776
SNP_P4_174300_45891	NW_004517314.1	Scaffold2343	45891	GG	TT	1947032778
SNP_P4_174301_45905	NW_004517314.1	Scaffold2343	45905	AA	GG	1947032780
SNP_P4_174302_45943	NW_004517314.1	Scaffold2343	45943	GG	AA	1947032782
SNP_P4_174303_45944	NW_004517314.1	Scaffold2343	45944	TT	AA	1947032784
SNP_P4_174304_46826	NW_004517314.1	Scaffold2343	46826	TT	CC	1947032786
SNP_P4_174305_46954	NW_004517314.1	Scaffold2343	46954	AA	GG	1947032788
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SNP_P4_174307_1321	NW_004517315.1	Scaffold2344	1321	TT	CC	1947032792
SNP_P4_174308_1476	NW_004517315.1	Scaffold2344	1476	TT	CC	1947032794
SNP_P4_174309_1507	NW_004517315.1	Scaffold2344	1507	TT	CC	1947032796
SNP_P4_174310_1509	NW_004517315.1	Scaffold2344	1509	TT	AA	1947032798
SNP_P4_174311_1521	NW_004517315.1	Scaffold2344	1521	TT	CC	1947032799
SNP_P4_174312_1533	NW_004517315.1	Scaffold2344	1533	GG	AA	1947032801
SNP_P4_174313_529	NW_004517316.1	Scaffold2345	529	CC	TT	1947032803
SNP_P4_174315_732	NW_004517316.1	Scaffold2345	732	CC	GG	1947032805
SNP_P4_174316_793	NW_004517316.1	Scaffold2345	793	CC	TT	1947032807
SNP_P4_174317_796	NW_004517316.1	Scaffold2345	796	AA	CC	1947032809
SNP_P4_174318_1023	NW_004517316.1	Scaffold2345	1023	GG	AA	1947032811
SNP_P4_174319_1120	NW_004517316.1	Scaffold2345	1120	TT	AA	1947032813
SNP_P4_174320_1129	NW_004517316.1	Scaffold2345	1129	AA	CC	1947032815

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_174323_2862	NW_004517316.1	Scaffold2345	2862	TT	AA	1947032821
SNP_P4_174324_11515	NW_004517316.1	Scaffold2345	11515	TT	CC	1947032823
SNP_P4_174326_13198	NW_004517316.1	Scaffold2345	13198	TT	CC	1947032825
SNP_P4_174327_13389	NW_004517316.1	Scaffold2345	13389	GG	CC	1947032827
SNP_P4_174328_17141	NW_004517316.1	Scaffold2345	17141	TT	AA	1947032829
SNP_P4_174329_17154	NW_004517316.1	Scaffold2345	17154	TT	AA	1947032831
SNP_P4_174330_20888	NW_004517316.1	Scaffold2345	20888	AA	GG	1947032833
SNP_P4_174331_20895	NW_004517316.1	Scaffold2345	20895	CC	TT	1947032835
SNP_P4_174332_20935	NW_004517316.1	Scaffold2345	20935	GG	CC	1947032837
SNP_P4_174333_21288	NW_004517316.1	Scaffold2345	21288	TT	AA	1947032839
SNP_P4_174334_246	NW_004517317.1	Scaffold2346	246	GG	AA	1947032841
SNP_P4_174335_383	NW_004517317.1	Scaffold2346	383	GG	AA	1947032843
SNP_P4_174336_433	NW_004517317.1	Scaffold2346	433	TT	GG	1947032845
SNP_P4_174337_501	NW_004517317.1	Scaffold2346	501	CC	AA	1947032847
SNP_P4_174338_569	NW_004517317.1	Scaffold2346	569	AA	TT	1947032849
SNP_P4_174339_630	NW_004517317.1	Scaffold2346	630	GG	AA	1947032851
SNP_P4_174340_700	NW_004517317.1	Scaffold2346	700	TT	CC	1947032852
SNP_P4_174341_870	NW_004517317.1	Scaffold2346	870	CC	AA	1947032854
SNP_P4_174342_873	NW_004517317.1	Scaffold2346	873	CC	TT	1947032856
SNP_P4_174343_898	NW_004517317.1	Scaffold2346	898	TT	AA	1947032858
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SNP_P4_174345_933	NW_004517317.1	Scaffold2346	933	GG	AA	1947032862
SNP_P4_174346_952	NW_004517317.1	Scaffold2346	952	AA	TT	1947032864
SNP_P4_174347_972	NW_004517317.1	Scaffold2346	972	CC	TT	1947032866
SNP_P4_174348_974	NW_004517317.1	Scaffold2346	974	AA	GG	1947032868
SNP_P4_174349_989	NW_004517317.1	Scaffold2346	989	CC	AA	1947032870
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SNP_P4_174357_1384	NW_004517317.1	Scaffold2346	1384	GG	AA	1947032886
SNP_P4_174358_1517	NW_004517317.1	Scaffold2346	1517	TT	GG	1947032888
SNP_P4_174359_1524	NW_004517317.1	Scaffold2346	1524	CC	TT	1947032890
SNP_P4_174360_1632	NW_004517317.1	Scaffold2346	1632	TT	CC	1947032892
SNP_P4_174361_1641	NW_004517317.1	Scaffold2346	1641	AA	GG	1947032894
SNP_P4_174362_1651	NW_004517317.1	Scaffold2346	1651	TT	AA	1947032896
SNP_P4_174363_1689	NW_004517317.1	Scaffold2346	1689	TT	AA	1947032898

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_174366_7457	NW_004517317.1	Scaffold2346	7457	TT	CC	1947032904
SNP_P4_174367_7620	NW_004517317.1	Scaffold2346	7620	AA	GG	1947032906
SNP_P4_174368_7627	NW_004517317.1	Scaffold2346	7627	GG	AA	1947032908
SNP_P4_174369_7676	NW_004517317.1	Scaffold2346	7676	CC	AA	1947032910
SNP_P4_174370_21795	NW_004517317.1	Scaffold2346	21795	AA	GG	1947032912
SNP_P4_174371_22030	NW_004517317.1	Scaffold2346	22030	AA	GG	1947032914
SNP_P4_174372_26052	NW_004517317.1	Scaffold2346	26052	CC	TT	1947032916
SNP_P4_174373_26329	NW_004517317.1	Scaffold2346	26329	TT	CC	1947032918
SNP_P4_174374_26534	NW_004517317.1	Scaffold2346	26534	GG	TT	1947032919
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SNP_P4_174376_26591	NW_004517317.1	Scaffold2346	26591	AA	CC	1947032921
SNP_P4_174377_27181	NW_004517317.1	Scaffold2346	27181	CC	TT	1947032922
SNP_P4_174378_27826	NW_004517317.1	Scaffold2346	27826	CC	TT	1947032923
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SNP_P4_174381_28056	NW_004517317.1	Scaffold2346	28056	TT	AA	1947032926
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SNP_P4_174398_30811	NW_004517317.1	Scaffold2346	30811	GG	TT	1947032954
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SNP_P4_174400_30816	NW_004517317.1	Scaffold2346	30816	CC	TT	1947032958
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SNP_P4_174402_30880	NW_004517317.1	Scaffold2346	30880	TT	CC	1947032962
SNP_P4_174403_31038	NW_004517317.1	Scaffold2346	31038	AA	TT	1947032964
SNP_P4_174404_31206	NW_004517317.1	Scaffold2346	31206	CC	TT	1947032966
SNP_P4_174405_31236	NW_004517317.1	Scaffold2346	31236	TT	GG	1947032968
SNP_P4_174406_31281	NW_004517317.1	Scaffold2346	31281	AA	GG	1947032970

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_174409_31411	NW_004517317.1	Scaffold2346	31411	GG	AA	1947032976
SNP_P4_174410_31686	NW_004517317.1	Scaffold2346	31686	TT	GG	1947032978
SNP_P4_174411_31808	NW_004517317.1	Scaffold2346	31808	CC	TT	1947032980
SNP_P4_174412_369	NW_004517318.1	Scaffold2347	369	CC	AA	1947032982
SNP_P4_174413_1911	NW_004517319.1	Scaffold2348	1911	TT	CC	1947032984
SNP_P4_174414_2005	NW_004517319.1	Scaffold2348	2005	TT	AA	1947032986
SNP_P4_174415_2464	NW_004517319.1	Scaffold2348	2464	GG	AA	1947032988
SNP_P4_174416_2484	NW_004517319.1	Scaffold2348	2484	GG	AA	1947032990
SNP_P4_174417_10212	NW_004517319.1	Scaffold2348	10212	TT	CC	1947032992
SNP_P4_174418_10992	NW_004517319.1	Scaffold2348	10992	GG	CC	1947032994
SNP_P4_174419_45891	NW_004517319.1	Scaffold2348	45891	TT	GG	1947032996
SNP_P4_174420_45898	NW_004517319.1	Scaffold2348	45898	AA	GG	1947032998
SNP_P4_174421_45920	NW_004517319.1	Scaffold2348	45920	CC	TT	1947033000
SNP_P4_174422_45957	NW_004517319.1	Scaffold2348	45957	TT	CC	1947033002
SNP_P4_174423_51978	NW_004517319.1	Scaffold2348	51978	TT	AA	1947033004
SNP_P4_174424_52139	NW_004517319.1	Scaffold2348	52139	CC	TT	1947033006
SNP_P4_174425_52294	NW_004517319.1	Scaffold2348	52294	TT	GG	1947033008
SNP_P4_174426_52306	NW_004517319.1	Scaffold2348	52306	GG	AA	1947033010
SNP_P4_174427_52329	NW_004517319.1	Scaffold2348	52329	GG	AA	1947033012
SNP_P4_174428_52407	NW_004517319.1	Scaffold2348	52407	TT	CC	1947033014
SNP_P4_174430_52816	NW_004517319.1	Scaffold2348	52816	GG	CC	1947033016
SNP_P4_174431_63988	NW_004517319.1	Scaffold2348	63988	AA	CC	1947033018
SNP_P4_174432_64181	NW_004517319.1	Scaffold2348	64181	TT	AA	1947033020
SNP_P4_174433_64223	NW_004517319.1	Scaffold2348	64223	AA	GG	1947033022
SNP_P4_174434_64237	NW_004517319.1	Scaffold2348	64237	GG	TT	1947033024
SNP_P4_174435_64280	NW_004517319.1	Scaffold2348	64280	TT	CC	1947033026
SNP_P4_174436_64330	NW_004517319.1	Scaffold2348	64330	AA	TT	1947033028
SNP_P4_174437_64345	NW_004517319.1	Scaffold2348	64345	GG	AA	1947033030
SNP_P4_174438_64358	NW_004517319.1	Scaffold2348	64358	CC	TT	1947033032
SNP_P4_174439_64376	NW_004517319.1	Scaffold2348	64376	TT	CC	1947033034
SNP_P4_174441_64493	NW_004517319.1	Scaffold2348	64493	GG	CC	1947033036
SNP_P4_174442_64561	NW_004517319.1	Scaffold2348	64561	GG	CC	1947033038
SNP_P4_174443_64564	NW_004517319.1	Scaffold2348	64564	AA	GG	1947033040
SNP_P4_174444_64596	NW_004517319.1	Scaffold2348	64596	GG	AA	1947033042
SNP_P4_174445_64610	NW_004517319.1	Scaffold2348	64610	AA	CC	1947033044
SNP_P4_174446_64651	NW_004517319.1	Scaffold2348	64651	AA	GG	1947033046
SNP_P4_174447_92776	NW_004517319.1	Scaffold2348	92776	CC	TT	1947033048
SNP_P4_174448_105306	NW_004517319.1	Scaffold2348	105306	AA	CC	1947033050
SNP_P4_174449_105736	NW_004517319.1	Scaffold2348	105736	TT	CC	1947033052
SNP_P4_174450_105772	NW_004517319.1	Scaffold2348	105772	TT	GG	1947033054

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_174452_105803	NW_004517319.1	Scaffold2348	105803	AA	CC	1947033058
SNP_P4_174453_105804	NW_004517319.1	Scaffold2348	105804	TT	AA	1947033060
SNP_P4_174454_105881	NW_004517319.1	Scaffold2348	105881	TT	CC	1947033062
SNP_P4_174455_105888	NW_004517319.1	Scaffold2348	105888	TT	CC	1947033064
SNP_P4_174457_108293	NW_004517319.1	Scaffold2348	108293	CC	TT	1947033066
SNP_P4_174458_108347	NW_004517319.1	Scaffold2348	108347	AA	CC	1947033068
SNP_P4_174459_111651	NW_004517319.1	Scaffold2348	111651	TT	AA	1947033070
SNP_P4_174460_116527	NW_004517319.1	Scaffold2348	116527	TT	GG	1947033072
SNP_P4_174461_139925	NW_004517319.1	Scaffold2348	139925	GG	AA	1947033075
SNP_P4_174462_165874	NW_004517319.1	Scaffold2348	165874	TT	CC	1947033077
SNP_P4_174464_178608	NW_004517319.1	Scaffold2348	178608	GG	AA	1947033079
SNP_P4_174465_183054	NW_004517319.1	Scaffold2348	183054	GG	AA	1947033081
SNP_P4_174466_517	NW_004517320.1	Scaffold2349	517	CC	GG	1947033083
SNP_P4_174467_592	NW_004517320.1	Scaffold2349	592	AA	GG	1947033085
SNP_P4_174468_668	NW_004517320.1	Scaffold2349	668	TT	AA	1947033087
SNP_P4_174469_980	NW_004517322.1	Scaffold2351	980	TT	AA	1947033089
SNP_P4_174470_985	NW_004517322.1	Scaffold2351	985	AA	TT	1947033091
SNP_P4_174471_712	NW_004517323.1	Scaffold2352	712	GG	TT	1947033093
SNP_P4_174472_783	NW_004517323.1	Scaffold2352	783	GG	CC	1947033095
SNP_P4_174473_830	NW_004517323.1	Scaffold2352	830	TT	CC	1947033097
SNP_P4_174474_891	NW_004517323.1	Scaffold2352	891	TT	CC	1947033099
SNP_P4_174475_911	NW_004517323.1	Scaffold2352	911	AA	GG	1947033101
SNP_P4_174476_955	NW_004517323.1	Scaffold2352	955	AA	CC	1947033103
SNP_P4_174477_962	NW_004517323.1	Scaffold2352	962	GG	AA	1947033105
SNP_P4_174478_977	NW_004517323.1	Scaffold2352	977	TT	GG	1947033108
SNP_P4_174479_1028	NW_004517323.1	Scaffold2352	1028	CC	AA	1947033110
SNP_P4_174480_1050	NW_004517323.1	Scaffold2352	1050	AA	GG	1947033112
SNP_P4_174481_1076	NW_004517323.1	Scaffold2352	1076	AA	GG	1947033114
SNP_P4_174482_1094	NW_004517323.1	Scaffold2352	1094	AA	GG	1947033116
SNP_P4_174483_1095	NW_004517323.1	Scaffold2352	1095	AA	GG	1947033118
SNP_P4_174484_1153	NW_004517323.1	Scaffold2352	1153	CC	GG	1947033120
SNP_P4_174485_1175	NW_004517323.1	Scaffold2352	1175	GG	AA	1947033122
SNP_P4_174486_1201	NW_004517323.1	Scaffold2352	1201	AA	GG	1947033124
SNP_P4_174487_1244	NW_004517323.1	Scaffold2352	1244	GG	AA	1947033126
SNP_P4_174488_1246	NW_004517323.1	Scaffold2352	1246	GG	CC	1947033128
SNP_P4_174489_390	NW_004517324.1	Scaffold2354	390	TT	GG	1947033130
SNP_P4_174490_595	NW_004517324.1	Scaffold2354	595	TT	GG	1947033132
SNP_P4_174491_3826	NW_004517324.1	Scaffold2354	3826	CC	TT	1947033134
SNP_P4_174492_4150	NW_004517324.1	Scaffold2354	4150	GG	TT	1947033136
SNP_P4_174493_4199	NW_004517324.1	Scaffold2354	4199	GG	AA	1947033138
SNP_P4_174494_4202	NW_004517324.1	Scaffold2354	4202	TT	AA	1947033140

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_174496_4349	NW_004517324.1	Scaffold2354	4349	TT	AA	1947033145
SNP_P4_174497_4350	NW_004517324.1	Scaffold2354	4350	GG	AA	1947033147
SNP_P4_174498_4361	NW_004517324.1	Scaffold2354	4361	CC	AA	1947033149
SNP_P4_174499_4424	NW_004517324.1	Scaffold2354	4424	GG	CC	1947033151
SNP_P4_174500_4427	NW_004517324.1	Scaffold2354	4427	CC	TT	1947033153
SNP_P4_174501_6663	NW_004517324.1	Scaffold2354	6663	AA	TT	1947033155
SNP_P4_174502_10653	NW_004517324.1	Scaffold2354	10653	GG	AA	1947033157
SNP_P4_174503_10926	NW_004517324.1	Scaffold2354	10926	AA	TT	1947033159
SNP_P4_174504_10958	NW_004517324.1	Scaffold2354	10958	AA	GG	1947033161
SNP_P4_174505_11328	NW_004517324.1	Scaffold2354	11328	GG	CC	1947033163
SNP_P4_174506_12172	NW_004517324.1	Scaffold2354	12172	GG	CC	1947033165
SNP_P4_174507_12188	NW_004517324.1	Scaffold2354	12188	TT	AA	1947033167
SNP_P4_174508_12189	NW_004517324.1	Scaffold2354	12189	GG	CC	1947033169
SNP_P4_174509_12190	NW_004517324.1	Scaffold2354	12190	GG	TT	1947033171
SNP_P4_174510_12201	NW_004517324.1	Scaffold2354	12201	GG	AA	1947033173
SNP_P4_174511_12257	NW_004517324.1	Scaffold2354	12257	GG	TT	1947033175
SNP_P4_174512_12296	NW_004517324.1	Scaffold2354	12296	AA	CC	1947033177
SNP_P4_174513_12531	NW_004517324.1	Scaffold2354	12531	CC	AA	1947033179
SNP_P4_174514_12567	NW_004517324.1	Scaffold2354	12567	AA	GG	1947033181
SNP_P4_174515_15217	NW_004517324.1	Scaffold2354	15217	CC	AA	1947033184
SNP_P4_174516_15307	NW_004517324.1	Scaffold2354	15307	GG	AA	1947033186
SNP_P4_174517_15347	NW_004517324.1	Scaffold2354	15347	AA	TT	1947033188
SNP_P4_174518_15392	NW_004517324.1	Scaffold2354	15392	GG	CC	1947033190
SNP_P4_174519_2959	NW_004517326.1	Scaffold2356	2959	CC	TT	1947033192
SNP_P4_174520_2982	NW_004517326.1	Scaffold2356	2982	AA	TT	1947033194
SNP_P4_174521_2989	NW_004517326.1	Scaffold2356	2989	GG	AA	1947033196
SNP_P4_174522_3113	NW_004517326.1	Scaffold2356	3113	TT	AA	1947033198
SNP_P4_174523_5734	NW_004517326.1	Scaffold2356	5734	GG	TT	1947033200
SNP_P4_174524_5746	NW_004517326.1	Scaffold2356	5746	CC	TT	1947033202
SNP_P4_174525_6097	NW_004517326.1	Scaffold2356	6097	AA	GG	1947033204
SNP_P4_174526_6127	NW_004517326.1	Scaffold2356	6127	TT	AA	1947033206
SNP_P4_174527_6136	NW_004517326.1	Scaffold2356	6136	GG	TT	1947033208
SNP_P4_174528_6219	NW_004517326.1	Scaffold2356	6219	GG	AA	1947033210
SNP_P4_174529_6220	NW_004517326.1	Scaffold2356	6220	TT	CC	1947033213
SNP_P4_174530_29872	NW_004517326.1	Scaffold2356	29872	GG	AA	1947033215
SNP_P4_174531_30194	NW_004517326.1	Scaffold2356	30194	AA	TT	1947033217
SNP_P4_174532_35106	NW_004517326.1	Scaffold2356	35106	CC	TT	1947033219
SNP_P4_174533_35160	NW_004517326.1	Scaffold2356	35160	CC	TT	1947033221
SNP_P4_174534_45337	NW_004517326.1	Scaffold2356	45337	TT	CC	1947033223
SNP_P4_174535_45367	NW_004517326.1	Scaffold2356	45367	TT	CC	1947033225
SNP_P4_174536_45658	NW_004517326.1	Scaffold2356	45658	GG	AA	1947033227

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_174538_76885	NW_004517326.1	Scaffold2356	76885	CC	GG	1947033231
SNP_P4_174539_77192	NW_004517326.1	Scaffold2356	77192	TT	AA	1947033233
SNP_P4_174540_128873	NW_004517326.1	Scaffold2356	128873	CC	GG	1947033235
SNP_P4_174541_128875	NW_004517326.1	Scaffold2356	128875	AA	TT	1947033237
SNP_P4_174542_132920	NW_004517326.1	Scaffold2356	132920	CC	TT	1947033239
SNP_P4_174544_133297	NW_004517326.1	Scaffold2356	133297	AA	CC	1947033241
SNP_P4_174545_133397	NW_004517326.1	Scaffold2356	133397	CC	TT	1947033243
SNP_P4_174546_133552	NW_004517326.1	Scaffold2356	133552	TT	AA	1947033246
SNP_P4_174547_133567	NW_004517326.1	Scaffold2356	133567	AA	CC	1947033248
SNP_P4_174548_135084	NW_004517326.1	Scaffold2356	135084	TT	CC	1947033250
SNP_P4_174549_135094	NW_004517326.1	Scaffold2356	135094	CC	TT	1947033252
SNP_P4_174550_135147	NW_004517326.1	Scaffold2356	135147	TT	CC	1947033254
SNP_P4_174551_135162	NW_004517326.1	Scaffold2356	135162	CC	TT	1947033256
SNP_P4_174553_136105	NW_004517326.1	Scaffold2356	136105	CC	TT	1947033258
SNP_P4_174554_136169	NW_004517326.1	Scaffold2356	136169	CC	TT	1947033260
SNP_P4_174555_136214	NW_004517326.1	Scaffold2356	136214	AA	GG	1947033262
SNP_P4_174556_136363	NW_004517326.1	Scaffold2356	136363	TT	AA	1947033264
SNP_P4_174557_136475	NW_004517326.1	Scaffold2356	136475	GG	TT	1947033266
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SNP_P4_174562_137025	NW_004517326.1	Scaffold2356	137025	GG	AA	1947033277
SNP_P4_174564_138664	NW_004517326.1	Scaffold2356	138664	TT	GG	1947033279
SNP_P4_174565_138701	NW_004517326.1	Scaffold2356	138701	CC	TT	1947033281
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SNP_P4_174567_138729	NW_004517326.1	Scaffold2356	138729	GG	AA	1947033285
SNP_P4_174569_139114	NW_004517326.1	Scaffold2356	139114	CC	TT	1947033287
SNP_P4_174570_139319	NW_004517326.1	Scaffold2356	139319	CC	TT	1947033289
SNP_P4_174572_147931	NW_004517326.1	Scaffold2356	147931	CC	TT	1947033291
SNP_P4_174573_155312	NW_004517326.1	Scaffold2356	155312	CC	TT	1947033293
SNP_P4_174574_189629	NW_004517326.1	Scaffold2356	189629	TT	CC	1947033295
SNP_P4_174575_189894	NW_004517326.1	Scaffold2356	189894	CC	GG	1947033297
SNP_P4_174576_196987	NW_004517326.1	Scaffold2356	196987	AA	GG	1947033299
SNP_P4_174577_196988	NW_004517326.1	Scaffold2356	196988	TT	CC	1947033301
SNP_P4_174578_197878	NW_004517326.1	Scaffold2356	197878	AA	GG	1947033303
SNP_P4_174579_205643	NW_004517326.1	Scaffold2356	205643	AA	CC	1947033305
SNP_P4_174580_205851	NW_004517326.1	Scaffold2356	205851	TT	AA	1947033307
SNP_P4_174581_205878	NW_004517326.1	Scaffold2356	205878	AA	CC	1947033309
SNP_P4_174582_205954	NW_004517326.1	Scaffold2356	205954	AA	CC	1947033311
SNP_P4_174583_205974	NW_004517326.1	Scaffold2356	205974	GG	AA	1947033313

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_174585_207438	NW_004517326.1	Scaffold2356	207438	TT	GG	1947033317
SNP_P4_174586_207439	NW_004517326.1	Scaffold2356	207439	AA	TT	1947033319
SNP_P4_174587_234434	NW_004517326.1	Scaffold2356	234434	CC	TT	1947033321
SNP_P4_174588_234931	NW_004517326.1	Scaffold2356	234931	TT	GG	1947033323
SNP_P4_174589_234932	NW_004517326.1	Scaffold2356	234932	CC	AA	1947033325
SNP_P4_174590_234957	NW_004517326.1	Scaffold2356	234957	CC	AA	1947033328
SNP_P4_174591_241984	NW_004517326.1	Scaffold2356	241984	AA	CC	1947033330
SNP_P4_174592_242200	NW_004517326.1	Scaffold2356	242200	GG	CC	1947033332
SNP_P4_174593_268342	NW_004517326.1	Scaffold2356	268342	GG	CC	1947033334
SNP_P4_174594_268672	NW_004517326.1	Scaffold2356	268672	CC	TT	1947033336
SNP_P4_174595_268708	NW_004517326.1	Scaffold2356	268708	GG	AA	1947033338
SNP_P4_174596_269543	NW_004517326.1	Scaffold2356	269543	TT	AA	1947033340
SNP_P4_174597_269571	NW_004517326.1	Scaffold2356	269571	CC	TT	1947033342
SNP_P4_174598_294218	NW_004517326.1	Scaffold2356	294218	CC	TT	1947033344
SNP_P4_174599_294255	NW_004517326.1	Scaffold2356	294255	AA	GG	1947033346
SNP_P4_174600_294264	NW_004517326.1	Scaffold2356	294264	AA	GG	1947033348
SNP_P4_174601_294295	NW_004517326.1	Scaffold2356	294295	CC	TT	1947033350
SNP_P4_174602_294765	NW_004517326.1	Scaffold2356	294765	AA	GG	1947033352
SNP_P4_174603_305952	NW_004517326.1	Scaffold2356	305952	GG	AA	1947033354
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SNP_P4_174605_16590	NW_004517327.1	Scaffold2357	16590	TT	GG	1947033358
SNP_P4_174606_31145	NW_004517327.1	Scaffold2357	31145	AA	GG	1947033360
SNP_P4_174607_215	NW_004517328.1	Scaffold2358	215	TT	CC	1947033362
SNP_P4_174608_259	NW_004517328.1	Scaffold2358	259	GG	AA	1947033364
SNP_P4_174609_601	NW_004517328.1	Scaffold2358	601	CC	AA	1947033366
SNP_P4_174610_662	NW_004517328.1	Scaffold2358	662	AA	GG	1947033368
SNP_P4_174611_799	NW_004517328.1	Scaffold2358	799	AA	GG	1947033370
SNP_P4_174612_883	NW_004517328.1	Scaffold2358	883	GG	CC	1947033372
SNP_P4_174613_921	NW_004517328.1	Scaffold2358	921	TT	CC	1947033374
SNP_P4_174614_982	NW_004517328.1	Scaffold2358	982	GG	AA	1947033376
SNP_P4_174615_1307	NW_004517328.1	Scaffold2358	1307	CC	TT	1947033378
SNP_P4_174617_1508	NW_004517328.1	Scaffold2358	1508	AA	GG	1947033380
SNP_P4_174618_1521	NW_004517328.1	Scaffold2358	1521	TT	AA	1947033382
SNP_P4_174619_2042	NW_004517328.1	Scaffold2358	2042	AA	GG	1947033384
SNP_P4_174620_2115	NW_004517328.1	Scaffold2358	2115	AA	GG	1947033386
SNP_P4_174621_2175	NW_004517328.1	Scaffold2358	2175	TT	GG	1947033388
SNP_P4_174622_2280	NW_004517328.1	Scaffold2358	2280	TT	CC	1947033390
SNP_P4_174623_2368	NW_004517328.1	Scaffold2358	2368	TT	CC	1947033392
SNP_P4_174624_2384	NW_004517328.1	Scaffold2358	2384	CC	TT	1947033394
SNP_P4_174625_2740	NW_004517328.1	Scaffold2358	2740	CC	TT	1947033396
SNP_P4_174626_2748	NW_004517328.1	Scaffold2358	2748	TT	CC	1947033398

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_174628_13877	NW_004517328.1	Scaffold2358	13877	CC	TT	1947033402
SNP_P4_174629_13885	NW_004517328.1	Scaffold2358	13885	AA	GG	1947033404
SNP_P4_174630_14061	NW_004517328.1	Scaffold2358	14061	TT	GG	1947033406
SNP_P4_174631_16111	NW_004517328.1	Scaffold2358	16111	GG	AA	1947033408
SNP_P4_174632_16164	NW_004517328.1	Scaffold2358	16164	TT	AA	1947033410
SNP_P4_174633_16173	NW_004517328.1	Scaffold2358	16173	AA	GG	1947033412
SNP_P4_174634_16446	NW_004517328.1	Scaffold2358	16446	GG	AA	1947033414
SNP_P4_174635_16646	NW_004517328.1	Scaffold2358	16646	GG	CC	1947033416
SNP_P4_174636_16659	NW_004517328.1	Scaffold2358	16659	TT	CC	1947033418
SNP_P4_174637_16678	NW_004517328.1	Scaffold2358	16678	GG	AA	1947033420
SNP_P4_174638_16688	NW_004517328.1	Scaffold2358	16688	TT	CC	1947033422
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SNP_P4_174640_16828	NW_004517328.1	Scaffold2358	16828	CC	TT	1947033426
SNP_P4_174641_17015	NW_004517328.1	Scaffold2358	17015	GG	AA	1947033428
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SNP_P4_174646_20204	NW_004517328.1	Scaffold2358	20204	AA	GG	1947033438
SNP_P4_174647_20744	NW_004517328.1	Scaffold2358	20744	AA	TT	1947033440
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SNP_P4_174650_36173	NW_004517328.1	Scaffold2358	36173	AA	TT	1947033446
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SNP_P4_174664_17664	NW_004517330.1	Scaffold2361	17664	GG	CC	1947033472
SNP_P4_174665_17669	NW_004517330.1	Scaffold2361	17669	CC	TT	1947033474
SNP_P4_174666_17679	NW_004517330.1	Scaffold2361	17679	AA	GG	1947033476
SNP_P4_174667_19524	NW_004517330.1	Scaffold2361	19524	GG	TT	1947033478
SNP_P4_174668_19574	NW_004517330.1	Scaffold2361	19574	AA	GG	1947033480
SNP_P4_174669_21067	NW_004517330.1	Scaffold2361	21067	CC	TT	1947033482

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_174673_25741	NW_004517330.1	Scaffold2361	25741	CC	AA	1947033490
SNP_P4_174674_25751	NW_004517330.1	Scaffold2361	25751	TT	CC	1947033492
SNP_P4_174675_25770	NW_004517330.1	Scaffold2361	25770	AA	CC	1947033494
SNP_P4_174676_25773	NW_004517330.1	Scaffold2361	25773	AA	CC	1947033496
SNP_P4_174677_25782	NW_004517330.1	Scaffold2361	25782	TT	AA	1947033498
SNP_P4_174678_29183	NW_004517330.1	Scaffold2361	29183	GG	AA	1947033500
SNP_P4_174679_29220	NW_004517330.1	Scaffold2361	29220	AA	CC	1947033502
SNP_P4_174680_29227	NW_004517330.1	Scaffold2361	29227	AA	GG	1947033504
SNP_P4_174681_29945	NW_004517330.1	Scaffold2361	29945	AA	GG	1947033506
SNP_P4_174682_40042	NW_004517330.1	Scaffold2361	40042	TT	AA	1947033508
SNP_P4_174683_40053	NW_004517330.1	Scaffold2361	40053	GG	TT	1947033510
SNP_P4_174684_40121	NW_004517330.1	Scaffold2361	40121	AA	TT	1947033512
SNP_P4_174685_45346	NW_004517330.1	Scaffold2361	45346	TT	AA	1947033514
SNP_P4_174686_45365	NW_004517330.1	Scaffold2361	45365	AA	GG	1947033516
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SNP_P4_174689_45408	NW_004517330.1	Scaffold2361	45408	CC	TT	1947033522
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SNP_P4_174694_45481	NW_004517330.1	Scaffold2361	45481	CC	GG	1947033532
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SNP_P4_174698_4215	NW_004517332.1	Scaffold2365	4215	GG	TT	1947033538
SNP_P4_174699_19620	NW_004517333.1	Scaffold2366	19620	CC	TT	1947033540
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SNP_P4_174707_19783	NW_004517333.1	Scaffold2366	19783	GG	AA	1947033556
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SNP_P4_174709_19816	NW_004517333.1	Scaffold2366	19816	GG	AA	1947033560
SNP_P4_174710_19832	NW_004517333.1	Scaffold2366	19832	TT	CC	1947033562
SNP_P4_174711_19848	NW_004517333.1	Scaffold2366	19848	GG	AA	1947033564
SNP_P4_174712_19852	NW_004517333.1	Scaffold2366	19852	GG	AA	1947033566

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_174715_19891	NW_004517333.1	Scaffold2366	19891	AA	GG	1947033572
SNP_P4_174716_19893	NW_004517333.1	Scaffold2366	19893	AA	CC	1947033574
SNP_P4_174717_19957	NW_004517333.1	Scaffold2366	19957	TT	CC	1947033576
SNP_P4_174718_19960	NW_004517333.1	Scaffold2366	19960	CC	TT	1947033578
SNP_P4_174719_19981	NW_004517333.1	Scaffold2366	19981	CC	AA	1947033580
SNP_P4_174720_19983	NW_004517333.1	Scaffold2366	19983	AA	GG	1947033582
SNP_P4_174721_20008	NW_004517333.1	Scaffold2366	20008	TT	CC	1947033584
SNP_P4_174722_21011	NW_004517333.1	Scaffold2366	21011	AA	CC	1947033586
SNP_P4_174723_21034	NW_004517333.1	Scaffold2366	21034	CC	TT	1947033588
SNP_P4_174724_21040	NW_004517333.1	Scaffold2366	21040	AA	CC	1947033590
SNP_P4_174725_21095	NW_004517333.1	Scaffold2366	21095	GG	TT	1947033592
SNP_P4_174726_21251	NW_004517333.1	Scaffold2366	21251	GG	TT	1947033594
SNP_P4_174727_21252	NW_004517333.1	Scaffold2366	21252	GG	AA	1947033596
SNP_P4_174728_21258	NW_004517333.1	Scaffold2366	21258	TT	CC	1947033598
SNP_P4_174729_21332	NW_004517333.1	Scaffold2366	21332	TT	GG	1947033600
SNP_P4_174730_21370	NW_004517333.1	Scaffold2366	21370	AA	GG	1947033602
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SNP_P4_174733_21386	NW_004517333.1	Scaffold2366	21386	GG	AA	1947033608
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SNP_P4_174736_21620	NW_004517333.1	Scaffold2366	21620	TT	AA	1947033614
SNP_P4_174737_21792	NW_004517333.1	Scaffold2366	21792	AA	TT	1947033616
SNP_P4_174738_21806	NW_004517333.1	Scaffold2366	21806	AA	GG	1947033618
SNP_P4_174739_21808	NW_004517333.1	Scaffold2366	21808	AA	CC	1947033620
SNP_P4_174740_24368	NW_004517333.1	Scaffold2366	24368	GG	CC	1947033622
SNP_P4_174741_693	NW_004517334.1	Scaffold2367	693	AA	GG	1947033624
SNP_P4_174742_745	NW_004517334.1	Scaffold2367	745	AA	CC	1947033626
SNP_P4_174743_752	NW_004517334.1	Scaffold2367	752	AA	TT	1947033628
SNP_P4_174744_777	NW_004517334.1	Scaffold2367	777	CC	GG	1947033630
SNP_P4_174745_823	NW_004517334.1	Scaffold2367	823	AA	CC	1947033632
SNP_P4_174746_824	NW_004517334.1	Scaffold2367	824	CC	TT	1947033634
SNP_P4_174747_826	NW_004517334.1	Scaffold2367	826	CC	TT	1947033636
SNP_P4_174748_827	NW_004517334.1	Scaffold2367	827	CC	TT	1947033637
SNP_P4_174749_831	NW_004517334.1	Scaffold2367	831	GG	TT	1947033639
SNP_P4_174750_838	NW_004517334.1	Scaffold2367	838	AA	GG	1947033641
SNP_P4_174751_842	NW_004517334.1	Scaffold2367	842	GG	AA	1947033643
SNP_P4_174752_1786	NW_004517334.1	Scaffold2367	1786	GG	AA	1947033645
SNP_P4_174753_1795	NW_004517334.1	Scaffold2367	1795	TT	CC	1947033647
SNP_P4_174754_6270	NW_004517334.1	Scaffold2367	6270	TT	CC	1947033649

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_174757_7328	NW_004517334.1	Scaffold2367	7328	CC	TT	1947033655
SNP_P4_174758_2135	NW_004517335.1	Scaffold2368	2135	TT	AA	1947033657
SNP_P4_174759_2804	NW_004517335.1	Scaffold2368	2804	CC	GG	1947033659
SNP_P4_174760_7279	NW_004517335.1	Scaffold2368	7279	AA	GG	1947033661
SNP_P4_174761_25806	NW_004517335.1	Scaffold2368	25806	TT	AA	1947033663
SNP_P4_174762_25842	NW_004517335.1	Scaffold2368	25842	AA	CC	1947033666
SNP_P4_174763_25846	NW_004517335.1	Scaffold2368	25846	TT	CC	1947033668
SNP_P4_174765_25961	NW_004517335.1	Scaffold2368	25961	TT	CC	1947033670
SNP_P4_174766_26007	NW_004517335.1	Scaffold2368	26007	CC	TT	1947033672
SNP_P4_174767_26069	NW_004517335.1	Scaffold2368	26069	GG	AA	1947033674
SNP_P4_174769_26193	NW_004517335.1	Scaffold2368	26193	AA	TT	1947033676
SNP_P4_174770_26205	NW_004517335.1	Scaffold2368	26205	TT	CC	1947033678
SNP_P4_174771_26206	NW_004517335.1	Scaffold2368	26206	TT	AA	1947033680
SNP_P4_174772_26219	NW_004517335.1	Scaffold2368	26219	CC	TT	1947033682
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SNP_P4_174774_26287	NW_004517335.1	Scaffold2368	26287	CC	TT	1947033686
SNP_P4_174775_26361	NW_004517335.1	Scaffold2368	26361	GG	AA	1947033688
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SNP_P4_174794_53931	NW_004517335.1	Scaffold2368	53931	CC	TT	1947033724
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SNP_P4_174796_53945	NW_004517335.1	Scaffold2368	53945	GG	TT	1947033728
SNP_P4_174797_54043	NW_004517335.1	Scaffold2368	54043	GG	CC	1947033730
SNP_P4_174798_54045	NW_004517335.1	Scaffold2368	54045	CC	GG	1947033732
SNP_P4_174799_54058	NW_004517335.1	Scaffold2368	54058	CC	AA	1947033734

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_174805_60039	NW_004517335.1	Scaffold2368	60039	CC	AA	1947033740
SNP_P4_174806_3637	NW_004517338.1	Scaffold2371	3637	GG	AA	1947033742
SNP_P4_174807_4876	NW_004517338.1	Scaffold2371	4876	GG	AA	1947033744
SNP_P4_174809_17932	NW_004517338.1	Scaffold2371	17932	GG	TT	1947033746
SNP_P4_174810_17956	NW_004517338.1	Scaffold2371	17956	AA	TT	1947033748
SNP_P4_174811_17999	NW_004517338.1	Scaffold2371	17999	AA	TT	1947033750
SNP_P4_174812_29511	NW_004517338.1	Scaffold2371	29511	AA	CC	1947033752
SNP_P4_174813_42691	NW_004517338.1	Scaffold2371	42691	AA	TT	1947033754
SNP_P4_174814_42718	NW_004517338.1	Scaffold2371	42718	CC	AA	1947033756
SNP_P4_174815_42885	NW_004517338.1	Scaffold2371	42885	CC	TT	1947033758
SNP_P4_174816_64887	NW_004517338.1	Scaffold2371	64887	AA	GG	1947033760
SNP_P4_174817_65063	NW_004517338.1	Scaffold2371	65063	GG	AA	1947033762
SNP_P4_174818_71458	NW_004517338.1	Scaffold2371	71458	TT	CC	1947033764
SNP_P4_174819_73060	NW_004517338.1	Scaffold2371	73060	GG	AA	1947033766
SNP_P4_174821_73172	NW_004517338.1	Scaffold2371	73172	TT	CC	1947033768
SNP_P4_174822_73258	NW_004517338.1	Scaffold2371	73258	CC	TT	1947033770
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SNP_P4_174824_73264	NW_004517338.1	Scaffold2371	73264	AA	GG	1947033774
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SNP_P4_174826_73289	NW_004517338.1	Scaffold2371	73289	TT	CC	1947033778
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SNP_P4_174837_73874	NW_004517338.1	Scaffold2371	73874	TT	AA	1947033796
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SNP_P4_174843_74269	NW_004517338.1	Scaffold2371	74269	CC	TT	1947033806
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SNP_P4_174845_74605	NW_004517338.1	Scaffold2371	74605	TT	AA	1947033810
SNP_P4_174846_74606	NW_004517338.1	Scaffold2371	74606	TT	AA	1947033812
SNP_P4_174848_74682	NW_004517338.1	Scaffold2371	74682	GG	AA	1947033814
SNP_P4_174849_74697	NW_004517338.1	Scaffold2371	74697	AA	CC	1947033816
SNP_P4_174850_74729	NW_004517338.1	Scaffold2371	74729	TT	GG	1947033818

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_174851_74772	NW_004517338.1	Scaffold2371	74772	GG	CC	1947033820
SNP_P4_174852_76966	NW_004517338.1	Scaffold2371	76966	AA	CC	1947033822
SNP_P4_174853_77320	NW_004517338.1	Scaffold2371	77320	AA	TT	1947033824
SNP_P4_174856_92252	NW_004517338.1	Scaffold2371	92252	GG	TT	1947033826
SNP_P4_174857_92297	NW_004517338.1	Scaffold2371	92297	TT	GG	1947033828
SNP_P4_174858_92441	NW_004517338.1	Scaffold2371	92441	CC	AA	1947033830
SNP_P4_174859_92822	NW_004517338.1	Scaffold2371	92822	GG	CC	1947033832
SNP_P4_174860_92924	NW_004517338.1	Scaffold2371	92924	CC	GG	1947033834
SNP_P4_174861_92962	NW_004517338.1	Scaffold2371	92962	CC	GG	1947033836
SNP_P4_174862_125857	NW_004517338.1	Scaffold2371	125857	AA	GG	1947033838
SNP_P4_174863_128158	NW_004517338.1	Scaffold2371	128158	GG	TT	1947033840
SNP_P4_174864_128753	NW_004517338.1	Scaffold2371	128753	AA	CC	1947033842
SNP_P4_174865_128775	NW_004517338.1	Scaffold2371	128775	AA	GG	1947033844
SNP_P4_174866_139650	NW_004517338.1	Scaffold2371	139650	TT	AA	1947033846
SNP_P4_174867_139654	NW_004517338.1	Scaffold2371	139654	AA	CC	1947033848
SNP_P4_174869_149904	NW_004517338.1	Scaffold2371	149904	AA	GG	1947033850
SNP_P4_174871_150013	NW_004517338.1	Scaffold2371	150013	CC	AA	1947033852
SNP_P4_174873_150100	NW_004517338.1	Scaffold2371	150100	AA	TT	1947033854
SNP_P4_174874_150233	NW_004517338.1	Scaffold2371	150233	TT	AA	1947033856
SNP_P4_174875_150237	NW_004517338.1	Scaffold2371	150237	TT	AA	1947033858
SNP_P4_174876_150240	NW_004517338.1	Scaffold2371	150240	TT	AA	1947033860
SNP_P4_174877_150289	NW_004517338.1	Scaffold2371	150289	AA	GG	1947033862
SNP_P4_174878_150308	NW_004517338.1	Scaffold2371	150308	TT	AA	1947033864
SNP_P4_174879_150319	NW_004517338.1	Scaffold2371	150319	AA	GG	1947033866
SNP_P4_174880_150410	NW_004517338.1	Scaffold2371	150410	CC	AA	1947033868
SNP_P4_174881_150424	NW_004517338.1	Scaffold2371	150424	CC	AA	1947033870
SNP_P4_174882_150493	NW_004517338.1	Scaffold2371	150493	AA	TT	1947033872
SNP_P4_174883_151920	NW_004517338.1	Scaffold2371	151920	AA	GG	1947033874
SNP_P4_174884_158650	NW_004517338.1	Scaffold2371	158650	GG	CC	1947033876
SNP_P4_174885_168092	NW_004517338.1	Scaffold2371	168092	AA	GG	1947033878
SNP_P4_174886_168185	NW_004517338.1	Scaffold2371	168185	TT	CC	1947033880
SNP_P4_174887_168346	NW_004517338.1	Scaffold2371	168346	TT	CC	1947033882
SNP_P4_174888_168377	NW_004517338.1	Scaffold2371	168377	GG	AA	1947033884
SNP_P4_174889_171637	NW_004517338.1	Scaffold2371	171637	AA	GG	1947033886
SNP_P4_174890_171960	NW_004517338.1	Scaffold2371	171960	TT	CC	1947033888
SNP_P4_174891_171998	NW_004517338.1	Scaffold2371	171998	AA	GG	1947033890
SNP_P4_174892_172026	NW_004517338.1	Scaffold2371	172026	AA	GG	1947033892
SNP_P4_174893_172055	NW_004517338.1	Scaffold2371	172055	CC	TT	1947033894
SNP_P4_174894_172061	NW_004517338.1	Scaffold2371	172061	GG	AA	1947033896
SNP_P4_174895_174298	NW_004517338.1	Scaffold2371	174298	AA	GG	1947033898
SNP_P4_174896_224151	NW_004517338.1	Scaffold2371	224151	AA	GG	1947033900
SNP_P4_174897_224528	NW_004517338.1	Scaffold2371	224528	AA	GG	1947033902

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_174899_224575	NW_004517338.1	Scaffold2371	224575	AA	GG	1947033906
SNP_P4_174900_238463	NW_004517338.1	Scaffold2371	238463	AA	GG	1947033908
SNP_P4_174901_246381	NW_004517338.1	Scaffold2371	246381	AA	TT	1947033910
SNP_P4_174902_262100	NW_004517338.1	Scaffold2371	262100	GG	AA	1947033912
SNP_P4_174903_262113	NW_004517338.1	Scaffold2371	262113	CC	AA	1947033914
SNP_P4_174904_262114	NW_004517338.1	Scaffold2371	262114	CC	TT	1947033916
SNP_P4_174905_274638	NW_004517338.1	Scaffold2371	274638	AA	GG	1947033918
SNP_P4_174907_280890	NW_004517338.1	Scaffold2371	280890	AA	TT	1947033920
SNP_P4_174908_280912	NW_004517338.1	Scaffold2371	280912	AA	GG	1947033922
SNP_P4_174909_286279	NW_004517338.1	Scaffold2371	286279	GG	CC	1947033924
SNP_P4_174910_287438	NW_004517338.1	Scaffold2371	287438	GG	AA	1947033926
SNP_P4_174912_288444	NW_004517338.1	Scaffold2371	288444	TT	AA	1947033928
SNP_P4_174913_288675	NW_004517338.1	Scaffold2371	288675	GG	TT	1947033930
SNP_P4_174914_288777	NW_004517338.1	Scaffold2371	288777	CC	TT	1947033932
SNP_P4_174915_290041	NW_004517338.1	Scaffold2371	290041	GG	TT	1947033934
SNP_P4_174916_290225	NW_004517338.1	Scaffold2371	290225	TT	AA	1947033936
SNP_P4_174917_291054	NW_004517338.1	Scaffold2371	291054	AA	CC	1947033938
SNP_P4_174918_291505	NW_004517338.1	Scaffold2371	291505	AA	GG	1947033940
SNP_P4_174919_292110	NW_004517338.1	Scaffold2371	292110	CC	TT	1947033942
SNP_P4_174920_292341	NW_004517338.1	Scaffold2371	292341	CC	TT	1947033944
SNP_P4_174921_292854	NW_004517338.1	Scaffold2371	292854	GG	AA	1947033946
SNP_P4_174922_294881	NW_004517338.1	Scaffold2371	294881	GG	AA	1947033949
SNP_P4_174923_298415	NW_004517338.1	Scaffold2371	298415	GG	AA	1947033951
SNP_P4_174924_298508	NW_004517338.1	Scaffold2371	298508	GG	CC	1947033954
SNP_P4_174926_309805	NW_004517338.1	Scaffold2371	309805	AA	TT	1947033956
SNP_P4_174927_335026	NW_004517338.1	Scaffold2371	335026	AA	GG	1947033959
SNP_P4_174928_340426	NW_004517338.1	Scaffold2371	340426	AA	GG	1947033961
SNP_P4_174929_340760	NW_004517338.1	Scaffold2371	340760	TT	AA	1947033963
SNP_P4_174930_341218	NW_004517338.1	Scaffold2371	341218	CC	TT	1947033965
SNP_P4_174931_1710	NW_004517339.1	Scaffold2372	1710	GG	TT	1947033967
SNP_P4_174932_1823	NW_004517339.1	Scaffold2372	1823	CC	TT	1947033969
SNP_P4_174933_1847	NW_004517339.1	Scaffold2372	1847	TT	CC	1947033971
SNP_P4_174934_1991	NW_004517339.1	Scaffold2372	1991	AA	TT	1947033973
SNP_P4_174935_1809	NW_004517340.1	Scaffold2373	1809	AA	GG	1947033975
SNP_P4_174936_1823	NW_004517340.1	Scaffold2373	1823	TT	GG	1947033977
SNP_P4_174937_2040	NW_004517340.1	Scaffold2373	2040	TT	CC	1947033979
SNP_P4_174938_2145	NW_004517340.1	Scaffold2373	2145	AA	GG	1947033981
SNP_P4_174939_2190	NW_004517340.1	Scaffold2373	2190	GG	TT	1947033983
SNP_P4_174941_18424	NW_004517340.1	Scaffold2373	18424	AA	CC	1947033985
SNP_P4_174942_18789	NW_004517340.1	Scaffold2373	18789	GG	CC	1947033987
SNP_P4_174943_18832	NW_004517340.1	Scaffold2373	18832	AA	GG	1947033989

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_174945_28746	NW_004517340.1	Scaffold2373	28746	GG	AA	1947033993
SNP_P4_174946_28810	NW_004517340.1	Scaffold2373	28810	CC	TT	1947033995
SNP_P4_174947_34074	NW_004517340.1	Scaffold2373	34074	TT	CC	1947033997
SNP_P4_174948_34095	NW_004517340.1	Scaffold2373	34095	CC	GG	1947033999
SNP_P4_174949_34149	NW_004517340.1	Scaffold2373	34149	GG	AA	1947034001
SNP_P4_174950_34337	NW_004517340.1	Scaffold2373	34337	GG	TT	1947034003
SNP_P4_174951_38325	NW_004517340.1	Scaffold2373	38325	AA	GG	1947034005
SNP_P4_174952_39148	NW_004517340.1	Scaffold2373	39148	AA	TT	1947034007
SNP_P4_174953_39149	NW_004517340.1	Scaffold2373	39149	AA	TT	1947034009
SNP_P4_174954_39153	NW_004517340.1	Scaffold2373	39153	GG	AA	1947034011
SNP_P4_174955_39350	NW_004517340.1	Scaffold2373	39350	GG	AA	1947034013
SNP_P4_174956_39359	NW_004517340.1	Scaffold2373	39359	TT	CC	1947034015
SNP_P4_174957_39396	NW_004517340.1	Scaffold2373	39396	GG	AA	1947034017
SNP_P4_174958_39398	NW_004517340.1	Scaffold2373	39398	CC	TT	1947034020
SNP_P4_174959_39436	NW_004517340.1	Scaffold2373	39436	GG	AA	1947034022
SNP_P4_174960_39464	NW_004517340.1	Scaffold2373	39464	GG	TT	1947034024
SNP_P4_174962_39643	NW_004517340.1	Scaffold2373	39643	CC	GG	1947034026
SNP_P4_174964_39723	NW_004517340.1	Scaffold2373	39723	TT	CC	1947034028
SNP_P4_174965_39835	NW_004517340.1	Scaffold2373	39835	TT	GG	1947034030
SNP_P4_174966_39849	NW_004517340.1	Scaffold2373	39849	TT	GG	1947034032
SNP_P4_174967_39904	NW_004517340.1	Scaffold2373	39904	GG	AA	1947034034
SNP_P4_174968_39917	NW_004517340.1	Scaffold2373	39917	CC	TT	1947034036
SNP_P4_174969_40177	NW_004517340.1	Scaffold2373	40177	GG	AA	1947034038
SNP_P4_174970_40213	NW_004517340.1	Scaffold2373	40213	TT	AA	1947034040
SNP_P4_174971_40214	NW_004517340.1	Scaffold2373	40214	TT	CC	1947034042
SNP_P4_174972_40216	NW_004517340.1	Scaffold2373	40216	AA	GG	1947034044
SNP_P4_174973_40218	NW_004517340.1	Scaffold2373	40218	GG	AA	1947034046
SNP_P4_174974_40230	NW_004517340.1	Scaffold2373	40230	TT	AA	1947034048
SNP_P4_174976_62495	NW_004517340.1	Scaffold2373	62495	TT	CC	1947034050
SNP_P4_174977_62513	NW_004517340.1	Scaffold2373	62513	TT	CC	1947034052
SNP_P4_174978_62520	NW_004517340.1	Scaffold2373	62520	CC	TT	1947034054
SNP_P4_174980_64168	NW_004517340.1	Scaffold2373	64168	GG	AA	1947034056
SNP_P4_174981_64194	NW_004517340.1	Scaffold2373	64194	GG	AA	1947034058
SNP_P4_174982_64304	NW_004517340.1	Scaffold2373	64304	GG	TT	1947034060
SNP_P4_174983_64320	NW_004517340.1	Scaffold2373	64320	AA	CC	1947034063
SNP_P4_174984_64400	NW_004517340.1	Scaffold2373	64400	AA	TT	1947034065
SNP_P4_174985_64706	NW_004517340.1	Scaffold2373	64706	AA	GG	1947034067
SNP_P4_174986_65063	NW_004517340.1	Scaffold2373	65063	AA	TT	1947034069
SNP_P4_174987_65070	NW_004517340.1	Scaffold2373	65070	GG	CC	1947034071
SNP_P4_174988_65928	NW_004517340.1	Scaffold2373	65928	TT	AA	1947034073
SNP_P4_174990_69636	NW_004517340.1	Scaffold2373	69636	CC	TT	1947034075

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_174992_69733	NW_004517340.1	Scaffold2373	69733	TT	CC	1947034079
SNP_P4_174993_81340	NW_004517340.1	Scaffold2373	81340	GG	AA	1947034081
SNP_P4_174994_84371	NW_004517340.1	Scaffold2373	84371	TT	CC	1947034083
SNP_P4_174995_106577	NW_004517340.1	Scaffold2373	106577	TT	GG	1947034085
SNP_P4_174996_115516	NW_004517340.1	Scaffold2373	115516	TT	AA	1947034087
SNP_P4_174997_115573	NW_004517340.1	Scaffold2373	115573	TT	CC	1947034089
SNP_P4_174998_115600	NW_004517340.1	Scaffold2373	115600	CC	AA	1947034092
SNP_P4_175000_122318	NW_004517340.1	Scaffold2373	122318	CC	TT	1947034094
SNP_P4_175001_123397	NW_004517340.1	Scaffold2373	123397	CC	TT	1947034097
SNP_P4_175002_123404	NW_004517340.1	Scaffold2373	123404	TT	CC	1947034099
SNP_P4_175003_124551	NW_004517340.1	Scaffold2373	124551	AA	GG	1947034102
SNP_P4_175004_124593	NW_004517340.1	Scaffold2373	124593	TT	CC	1947034105
SNP_P4_175005_124599	NW_004517340.1	Scaffold2373	124599	TT	CC	1947034107
SNP_P4_175006_124610	NW_004517340.1	Scaffold2373	124610	GG	AA	1947034110
SNP_P4_175007_124612	NW_004517340.1	Scaffold2373	124612	AA	GG	1947034112
SNP_P4_175008_124780	NW_004517340.1	Scaffold2373	124780	CC	AA	1947034115
SNP_P4_175009_124788	NW_004517340.1	Scaffold2373	124788	CC	AA	1947034117
SNP_P4_175010_124789	NW_004517340.1	Scaffold2373	124789	TT	AA	1947034120
SNP_P4_175011_124802	NW_004517340.1	Scaffold2373	124802	TT	CC	1947034122
SNP_P4_175012_124804	NW_004517340.1	Scaffold2373	124804	CC	TT	1947034124
SNP_P4_175013_124841	NW_004517340.1	Scaffold2373	124841	CC	TT	1947034127
SNP_P4_175014_124853	NW_004517340.1	Scaffold2373	124853	GG	AA	1947034129
SNP_P4_175015_124865	NW_004517340.1	Scaffold2373	124865	CC	TT	1947034131
SNP_P4_175016_124930	NW_004517340.1	Scaffold2373	124930	TT	CC	1947034133
SNP_P4_175017_124947	NW_004517340.1	Scaffold2373	124947	AA	TT	1947034135
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SNP_P4_175019_149123	NW_004517340.1	Scaffold2373	149123	TT	GG	1947034139
SNP_P4_175020_149329	NW_004517340.1	Scaffold2373	149329	CC	TT	1947034141
SNP_P4_175021_149367	NW_004517340.1	Scaffold2373	149367	GG	TT	1947034143
SNP_P4_175022_149408	NW_004517340.1	Scaffold2373	149408	GG	AA	1947034145
SNP_P4_175023_149494	NW_004517340.1	Scaffold2373	149494	GG	AA	1947034147
SNP_P4_175024_149578	NW_004517340.1	Scaffold2373	149578	AA	GG	1947034149
SNP_P4_175025_149636	NW_004517340.1	Scaffold2373	149636	CC	AA	1947034151
SNP_P4_175026_149652	NW_004517340.1	Scaffold2373	149652	AA	GG	1947034153
SNP_P4_175027_149716	NW_004517340.1	Scaffold2373	149716	AA	CC	1947034155
SNP_P4_175028_149947	NW_004517340.1	Scaffold2373	149947	CC	AA	1947034157
SNP_P4_175029_149971	NW_004517340.1	Scaffold2373	149971	TT	CC	1947034159
SNP_P4_175030_150053	NW_004517340.1	Scaffold2373	150053	TT	CC	1947034161
SNP_P4_175031_150122	NW_004517340.1	Scaffold2373	150122	CC	TT	1947034163
SNP_P4_175032_150146	NW_004517340.1	Scaffold2373	150146	TT	CC	1947034165
SNP_P4_175033_150184	NW_004517340.1	Scaffold2373	150184	TT	CC	1947034167

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_175036_151064	NW_004517340.1	Scaffold2373	151064	TT	CC	1947034171
SNP_P4_175037_151068	NW_004517340.1	Scaffold2373	151068	GG	TT	1947034173
SNP_P4_175038_151070	NW_004517340.1	Scaffold2373	151070	CC	TT	1947034175
SNP_P4_175039_151085	NW_004517340.1	Scaffold2373	151085	TT	CC	1947034177
SNP_P4_175040_151327	NW_004517340.1	Scaffold2373	151327	TT	CC	1947034179
SNP_P4_175041_151456	NW_004517340.1	Scaffold2373	151456	TT	CC	1947034181
SNP_P4_175042_151833	NW_004517340.1	Scaffold2373	151833	GG	AA	1947034183
SNP_P4_175043_152235	NW_004517340.1	Scaffold2373	152235	TT	AA	1947034185
SNP_P4_175044_152306	NW_004517340.1	Scaffold2373	152306	GG	AA	1947034187
SNP_P4_175045_152333	NW_004517340.1	Scaffold2373	152333	TT	GG	1947034189
SNP_P4_175046_152521	NW_004517340.1	Scaffold2373	152521	TT	CC	1947034191
SNP_P4_175047_152620	NW_004517340.1	Scaffold2373	152620	GG	AA	1947034193
SNP_P4_175048_152704	NW_004517340.1	Scaffold2373	152704	CC	GG	1947034195
SNP_P4_175049_152715	NW_004517340.1	Scaffold2373	152715	AA	GG	1947034197
SNP_P4_175050_152772	NW_004517340.1	Scaffold2373	152772	AA	CC	1947034199
SNP_P4_175051_152870	NW_004517340.1	Scaffold2373	152870	AA	CC	1947034201
SNP_P4_175052_152975	NW_004517340.1	Scaffold2373	152975	GG	CC	1947034203
SNP_P4_175053_3377	NW_004517342.1	Scaffold2375	3377	AA	GG	1947034205
SNP_P4_175054_3690	NW_004517342.1	Scaffold2375	3690	TT	CC	1947034207
SNP_P4_175055_3733	NW_004517342.1	Scaffold2375	3733	TT	CC	1947034209
SNP_P4_175056_1548	NW_004517343.1	Scaffold2376	1548	AA	TT	1947034211
SNP_P4_175057_1553	NW_004517343.1	Scaffold2376	1553	AA	GG	1947034213
SNP_P4_175058_3281	NW_004517343.1	Scaffold2376	3281	GG	AA	1947034215
SNP_P4_175059_4529	NW_004517343.1	Scaffold2376	4529	AA	TT	1947034217
SNP_P4_175060_6496	NW_004517343.1	Scaffold2376	6496	CC	AA	1947034219
SNP_P4_175061_9343	NW_004517343.1	Scaffold2376	9343	GG	CC	1947034221
SNP_P4_175062_9425	NW_004517343.1	Scaffold2376	9425	AA	TT	1947034223
SNP_P4_175063_9426	NW_004517343.1	Scaffold2376	9426	AA	CC	1947034225
SNP_P4_175064_12058	NW_004517343.1	Scaffold2376	12058	TT	CC	1947034227
SNP_P4_175065_13698	NW_004517343.1	Scaffold2376	13698	CC	GG	1947034229
SNP_P4_175066_13854	NW_004517343.1	Scaffold2376	13854	TT	CC	1947034231
SNP_P4_175067_15773	NW_004517343.1	Scaffold2376	15773	AA	TT	1947034233
SNP_P4_175068_15889	NW_004517343.1	Scaffold2376	15889	CC	GG	1947034235
SNP_P4_175069_16598	NW_004517343.1	Scaffold2376	16598	TT	GG	1947034237
SNP_P4_175070_16802	NW_004517343.1	Scaffold2376	16802	CC	AA	1947034239
SNP_P4_175071_16805	NW_004517343.1	Scaffold2376	16805	TT	AA	1947034241
SNP_P4_175072_16809	NW_004517343.1	Scaffold2376	16809	CC	AA	1947034243
SNP_P4_175073_16812	NW_004517343.1	Scaffold2376	16812	TT	AA	1947034245
SNP_P4_175074_3468	NW_004517345.1	Scaffold2378	3468	CC	GG	1947034247
SNP_P4_175075_4887	NW_004517345.1	Scaffold2378	4887	AA	GG	1947034249
SNP_P4_175076_4900	NW_004517345.1	Scaffold2378	4900	TT	CC	1947034251

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_175077_6343	NW_004517345.1	Scaffold2378	6343	TT	CC	1947034253
SNP_P4_175078_6436	NW_004517345.1	Scaffold2378	6436	AA	GG	1947034255
SNP_P4_175079_8477	NW_004517345.1	Scaffold2378	8477	AA	TT	1947034257
SNP_P4_175080_8784	NW_004517345.1	Scaffold2378	8784	TT	CC	1947034259
SNP_P4_175081_17197	NW_004517345.1	Scaffold2378	17197	TT	CC	1947034261
SNP_P4_175082_17246	NW_004517345.1	Scaffold2378	17246	GG	CC	1947034263
SNP_P4_175083_17431	NW_004517345.1	Scaffold2378	17431	CC	TT	1947034266
SNP_P4_175084_17477	NW_004517345.1	Scaffold2378	17477	GG	AA	1947034268
SNP_P4_175085_17524	NW_004517345.1	Scaffold2378	17524	CC	TT	1947034270
SNP_P4_175086_17550	NW_004517345.1	Scaffold2378	17550	TT	CC	1947034272
SNP_P4_175087_17636	NW_004517345.1	Scaffold2378	17636	TT	CC	1947034274
SNP_P4_175088_17662	NW_004517345.1	Scaffold2378	17662	GG	AA	1947034276
SNP_P4_175089_17689	NW_004517345.1	Scaffold2378	17689	TT	CC	1947034278
SNP_P4_175090_23059	NW_004517345.1	Scaffold2378	23059	AA	GG	1947034280
SNP_P4_175091_23070	NW_004517345.1	Scaffold2378	23070	CC	TT	1947034282
SNP_P4_175092_25448	NW_004517345.1	Scaffold2378	25448	AA	GG	1947034284
SNP_P4_175094_30241	NW_004517345.1	Scaffold2378	30241	AA	TT	1947034286
SNP_P4_175095_30350	NW_004517345.1	Scaffold2378	30350	AA	CC	1947034288
SNP_P4_175096_30396	NW_004517345.1	Scaffold2378	30396	AA	GG	1947034289
SNP_P4_175097_30620	NW_004517345.1	Scaffold2378	30620	TT	AA	1947034290
SNP_P4_175098_37149	NW_004517345.1	Scaffold2378	37149	GG	CC	1947034291
SNP_P4_175101_37354	NW_004517345.1	Scaffold2378	37354	CC	AA	1947034292
SNP_P4_175102_37355	NW_004517345.1	Scaffold2378	37355	AA	CC	1947034293
SNP_P4_175103_1499	NW_004517347.1	Scaffold2381	1499	GG	AA	1947034294
SNP_P4_175104_1501	NW_004517347.1	Scaffold2381	1501	AA	TT	1947034295
SNP_P4_175105_1522	NW_004517347.1	Scaffold2381	1522	CC	TT	1947034296
SNP_P4_175106_11700	NW_004517348.1	Scaffold2382	11700	GG	AA	1947034297
SNP_P4_175107_11706	NW_004517348.1	Scaffold2382	11706	GG	AA	1947034299
SNP_P4_175108_11707	NW_004517348.1	Scaffold2382	11707	CC	TT	1947034301
SNP_P4_175109_11717	NW_004517348.1	Scaffold2382	11717	AA	GG	1947034303
SNP_P4_175110_23924	NW_004517348.1	Scaffold2382	23924	GG	TT	1947034305
SNP_P4_175111_24261	NW_004517348.1	Scaffold2382	24261	GG	TT	1947034307
SNP_P4_175113_28602	NW_004517348.1	Scaffold2382	28602	AA	TT	1947034309
SNP_P4_175114_476	NW_004517349.1	Scaffold2383	476	GG	TT	1947034311
SNP_P4_175115_542	NW_004517349.1	Scaffold2383	542	CC	AA	1947034313
SNP_P4_175116_2259	NW_004517350.1	Scaffold2385	2259	TT	GG	1947034315
SNP_P4_175117_2274	NW_004517350.1	Scaffold2385	2274	TT	CC	1947034317
SNP_P4_175118_2298	NW_004517350.1	Scaffold2385	2298	GG	AA	1947034319
SNP_P4_175119_2312	NW_004517350.1	Scaffold2385	2312	CC	TT	1947034321
SNP_P4_175120_2393	NW_004517350.1	Scaffold2385	2393	CC	AA	1947034323
SNP_P4_175121_2418	NW_004517350.1	Scaffold2385	2418	CC	TT	1947034325
SNP_P4_175122_2724	NW_004517350.1	Scaffold2385	2724	GG	AA	1947034327

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_175124_3476	NW_004517350.1	Scaffold2385	3476	TT	AA	1947034332
SNP_P4_175125_3588	NW_004517350.1	Scaffold2385	3588	AA	GG	1947034334
SNP_P4_175126_3696	NW_004517350.1	Scaffold2385	3696	AA	CC	1947034336
SNP_P4_175129_5885	NW_004517350.1	Scaffold2385	5885	TT	CC	1947034338
SNP_P4_175130_2678	NW_004517351.1	Scaffold2386	2678	TT	CC	1947034340
SNP_P4_175131_44499	NW_004517351.1	Scaffold2386	44499	AA	GG	1947034342
SNP_P4_175132_52813	NW_004517351.1	Scaffold2386	52813	TT	CC	1947034344
SNP_P4_175133_59927	NW_004517351.1	Scaffold2386	59927	AA	GG	1947034346
SNP_P4_175134_60038	NW_004517351.1	Scaffold2386	60038	TT	AA	1947034348
SNP_P4_175135_74494	NW_004517351.1	Scaffold2386	74494	AA	TT	1947034350
SNP_P4_175136_74512	NW_004517351.1	Scaffold2386	74512	TT	GG	1947034352
SNP_P4_175137_106037	NW_004517351.1	Scaffold2386	106037	AA	GG	1947034354
SNP_P4_175138_106175	NW_004517351.1	Scaffold2386	106175	TT	CC	1947034356
SNP_P4_175139_106234	NW_004517351.1	Scaffold2386	106234	GG	AA	1947034358
SNP_P4_175140_106284	NW_004517351.1	Scaffold2386	106284	TT	CC	1947034360
SNP_P4_175141_106288	NW_004517351.1	Scaffold2386	106288	GG	TT	1947034362
SNP_P4_175142_106485	NW_004517351.1	Scaffold2386	106485	CC	TT	1947034364
SNP_P4_175144_173348	NW_004517351.1	Scaffold2386	173348	TT	CC	1947034366
SNP_P4_175145_173357	NW_004517351.1	Scaffold2386	173357	CC	AA	1947034368
SNP_P4_175146_178774	NW_004517351.1	Scaffold2386	178774	CC	GG	1947034370
SNP_P4_175147_178796	NW_004517351.1	Scaffold2386	178796	AA	GG	1947034372
SNP_P4_175148_178805	NW_004517351.1	Scaffold2386	178805	AA	GG	1947034374
SNP_P4_175149_178811	NW_004517351.1	Scaffold2386	178811	AA	TT	1947034377
SNP_P4_175150_186626	NW_004517351.1	Scaffold2386	186626	GG	AA	1947034379
SNP_P4_175151_186931	NW_004517351.1	Scaffold2386	186931	AA	TT	1947034381
SNP_P4_175152_186935	NW_004517351.1	Scaffold2386	186935	TT	AA	1947034383
SNP_P4_175153_196724	NW_004517351.1	Scaffold2386	196724	GG	AA	1947034385
SNP_P4_175154_196740	NW_004517351.1	Scaffold2386	196740	CC	TT	1947034387
SNP_P4_175155_196742	NW_004517351.1	Scaffold2386	196742	CC	TT	1947034389
SNP_P4_175156_213183	NW_004517351.1	Scaffold2386	213183	GG	AA	1947034391
SNP_P4_175157_213781	NW_004517351.1	Scaffold2386	213781	CC	TT	1947034393
SNP_P4_175158_214134	NW_004517351.1	Scaffold2386	214134	CC	AA	1947034395
SNP_P4_175159_214138	NW_004517351.1	Scaffold2386	214138	CC	TT	1947034397
SNP_P4_175160_214231	NW_004517351.1	Scaffold2386	214231	GG	AA	1947034399
SNP_P4_175161_214274	NW_004517351.1	Scaffold2386	214274	TT	GG	1947034401
SNP_P4_175162_214299	NW_004517351.1	Scaffold2386	214299	GG	CC	1947034403
SNP_P4_175163_6945	NW_004517352.1	Scaffold2388	6945	AA	GG	1947034405
SNP_P4_175164_7717	NW_004517352.1	Scaffold2388	7717	CC	TT	1947034407
SNP_P4_175165_7887	NW_004517352.1	Scaffold2388	7887	AA	CC	1947034409
SNP_P4_175166_7916	NW_004517352.1	Scaffold2388	7916	GG	AA	1947034411
SNP_P4_175167_8014	NW_004517352.1	Scaffold2388	8014	AA	GG	1947034413

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_175169_15473	NW_004517352.1	Scaffold2388	15473	TT	GG	1947034417
SNP_P4_175170_15775	NW_004517352.1	Scaffold2388	15775	GG	AA	1947034419
SNP_P4_175171_15825	NW_004517352.1	Scaffold2388	15825	AA	GG	1947034421
SNP_P4_175172_15850	NW_004517352.1	Scaffold2388	15850	TT	AA	1947034423
SNP_P4_175174_27123	NW_004517352.1	Scaffold2388	27123	CC	GG	1947034425
SNP_P4_175175_27263	NW_004517352.1	Scaffold2388	27263	GG	TT	1947034427
SNP_P4_175176_27340	NW_004517352.1	Scaffold2388	27340	CC	TT	1947034429
SNP_P4_175177_50004	NW_004517352.1	Scaffold2388	50004	AA	GG	1947034431
SNP_P4_175178_451	NW_004517353.1	Scaffold2389	451	TT	AA	1947034433
SNP_P4_175180_1168	NW_004517355.1	Scaffold2392	1168	TT	CC	1947034435
SNP_P4_175181_1515	NW_004517355.1	Scaffold2392	1515	AA	CC	1947034437
SNP_P4_175182_1519	NW_004517355.1	Scaffold2392	1519	AA	GG	1947034439
SNP_P4_175183_1588	NW_004517355.1	Scaffold2392	1588	TT	AA	1947034441
SNP_P4_175184_1760	NW_004517355.1	Scaffold2392	1760	AA	CC	1947034443
SNP_P4_175187_10908	NW_004517355.1	Scaffold2392	10908	GG	AA	1947034445
SNP_P4_175188_10981	NW_004517355.1	Scaffold2392	10981	CC	TT	1947034447
SNP_P4_175189_11214	NW_004517355.1	Scaffold2392	11214	CC	GG	1947034449
SNP_P4_175190_11327	NW_004517355.1	Scaffold2392	11327	TT	GG	1947034451
SNP_P4_175191_17715	NW_004517355.1	Scaffold2392	17715	AA	GG	1947034453
SNP_P4_175192_17726	NW_004517355.1	Scaffold2392	17726	TT	AA	1947034455
SNP_P4_175193_17806	NW_004517355.1	Scaffold2392	17806	CC	TT	1947034458
SNP_P4_175194_17812	NW_004517355.1	Scaffold2392	17812	TT	CC	1947034460
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SNP_P4_175196_17913	NW_004517355.1	Scaffold2392	17913	AA	GG	1947034464
SNP_P4_175197_17944	NW_004517355.1	Scaffold2392	17944	GG	AA	1947034466
SNP_P4_175198_17945	NW_004517355.1	Scaffold2392	17945	GG	AA	1947034468
SNP_P4_175199_18007	NW_004517355.1	Scaffold2392	18007	GG	CC	1947034470
SNP_P4_175201_18795	NW_004517355.1	Scaffold2392	18795	CC	TT	1947034472
SNP_P4_175202_18811	NW_004517355.1	Scaffold2392	18811	TT	AA	1947034474
SNP_P4_175203_18866	NW_004517355.1	Scaffold2392	18866	AA	GG	1947034476
SNP_P4_175204_18873	NW_004517355.1	Scaffold2392	18873	TT	CC	1947034478
SNP_P4_175205_18900	NW_004517355.1	Scaffold2392	18900	TT	CC	1947034480
SNP_P4_175206_18950	NW_004517355.1	Scaffold2392	18950	AA	GG	1947034482
SNP_P4_175207_19080	NW_004517355.1	Scaffold2392	19080	TT	AA	1947034484
SNP_P4_175208_19455	NW_004517355.1	Scaffold2392	19455	TT	AA	1947034486
SNP_P4_175209_19543	NW_004517355.1	Scaffold2392	19543	GG	TT	1947034488
SNP_P4_175210_19592	NW_004517355.1	Scaffold2392	19592	GG	AA	1947034490
SNP_P4_175211_19629	NW_004517355.1	Scaffold2392	19629	AA	TT	1947034492
SNP_P4_175212_19702	NW_004517355.1	Scaffold2392	19702	AA	TT	1947034494
SNP_P4_175213_19733	NW_004517355.1	Scaffold2392	19733	GG	CC	1947034496
SNP_P4_175214_19943	NW_004517355.1	Scaffold2392	19943	AA	TT	1947034498

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_175217_108516	NW_004517355.1	Scaffold2392	108516	GG	AA	1947034503
SNP_P4_175218_110686	NW_004517355.1	Scaffold2392	110686	GG	AA	1947034505
SNP_P4_175219_158736	NW_004517355.1	Scaffold2392	158736	TT	CC	1947034507
SNP_P4_175220_164686	NW_004517355.1	Scaffold2392	164686	CC	TT	1947034509
SNP_P4_175221_165876	NW_004517355.1	Scaffold2392	165876	TT	CC	1947034511
SNP_P4_175222_169295	NW_004517355.1	Scaffold2392	169295	GG	AA	1947034513
SNP_P4_175223_175207	NW_004517355.1	Scaffold2392	175207	AA	TT	1947034515
SNP_P4_175224_175209	NW_004517355.1	Scaffold2392	175209	AA	TT	1947034517
SNP_P4_175225_193345	NW_004517355.1	Scaffold2392	193345	CC	TT	1947034519
SNP_P4_175226_193348	NW_004517355.1	Scaffold2392	193348	AA	GG	1947034521
SNP_P4_175227_251405	NW_004517355.1	Scaffold2392	251405	TT	CC	1947034523
SNP_P4_175229_280193	NW_004517355.1	Scaffold2392	280193	CC	TT	1947034525
SNP_P4_175230_280196	NW_004517355.1	Scaffold2392	280196	TT	CC	1947034527
SNP_P4_175231_280516	NW_004517355.1	Scaffold2392	280516	AA	TT	1947034529
SNP_P4_175232_283201	NW_004517355.1	Scaffold2392	283201	AA	GG	1947034531
SNP_P4_175233_283265	NW_004517355.1	Scaffold2392	283265	AA	GG	1947034533
SNP_P4_175234_283579	NW_004517355.1	Scaffold2392	283579	GG	AA	1947034535
SNP_P4_175235_283586	NW_004517355.1	Scaffold2392	283586	AA	GG	1947034537
SNP_P4_175236_283615	NW_004517355.1	Scaffold2392	283615	TT	CC	1947034539
SNP_P4_175237_283651	NW_004517355.1	Scaffold2392	283651	TT	CC	1947034541
SNP_P4_175238_283664	NW_004517355.1	Scaffold2392	283664	TT	CC	1947034543
SNP_P4_175239_283677	NW_004517355.1	Scaffold2392	283677	CC	TT	1947034545
SNP_P4_175240_283684	NW_004517355.1	Scaffold2392	283684	TT	CC	1947034547
SNP_P4_175241_283708	NW_004517355.1	Scaffold2392	283708	GG	AA	1947034549
SNP_P4_175242_322850	NW_004517355.1	Scaffold2392	322850	AA	GG	1947034551
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SNP_P4_175244_323193	NW_004517355.1	Scaffold2392	323193	GG	CC	1947034555
SNP_P4_175246_325867	NW_004517355.1	Scaffold2392	325867	AA	TT	1947034557
SNP_P4_175247_325998	NW_004517355.1	Scaffold2392	325998	CC	AA	1947034559
SNP_P4_175248_326064	NW_004517355.1	Scaffold2392	326064	AA	CC	1947034561
SNP_P4_175249_326165	NW_004517355.1	Scaffold2392	326165	CC	AA	1947034563
SNP_P4_175251_326235	NW_004517355.1	Scaffold2392	326235	CC	GG	1947034565
SNP_P4_175252_326260	NW_004517355.1	Scaffold2392	326260	AA	CC	1947034567
SNP_P4_175253_354133	NW_004517355.1	Scaffold2392	354133	AA	GG	1947034569
SNP_P4_175257_355392	NW_004517355.1	Scaffold2392	355392	TT	AA	1947034571
SNP_P4_175258_2347	NW_004517356.1	Scaffold2394	2347	GG	TT	1947034573
SNP_P4_175259_2372	NW_004517356.1	Scaffold2394	2372	GG	AA	1947034575
SNP_P4_175260_3755	NW_004517356.1	Scaffold2394	3755	GG	TT	1947034577
SNP_P4_175261_3807	NW_004517356.1	Scaffold2394	3807	GG	AA	1947034579
SNP_P4_175262_4570	NW_004517356.1	Scaffold2394	4570	AA	CC	1947034581
SNP_P4_175263_5061	NW_004517356.1	Scaffold2394	5061	CC	TT	1947034583

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_175265_1452	NW_004517358.1	Scaffold2396	1452	AA	GG	1947034587
SNP_P4_175266_1791	NW_004517358.1	Scaffold2396	1791	AA	GG	1947034589
SNP_P4_175267_1796	NW_004517358.1	Scaffold2396	1796	AA	GG	1947034592
SNP_P4_175268_1843	NW_004517358.1	Scaffold2396	1843	GG	AA	1947034594
SNP_P4_175269_424	NW_004517359.1	Scaffold2397	424	GG	CC	1947034596
SNP_P4_175270_631	NW_004517359.1	Scaffold2397	631	AA	GG	1947034598
SNP_P4_175271_768	NW_004517359.1	Scaffold2397	768	GG	CC	1947034600
SNP_P4_175272_790	NW_004517359.1	Scaffold2397	790	TT	AA	1947034602
SNP_P4_175274_1764	NW_004517365.1	Scaffold2408	1764	AA	TT	1947034604
SNP_P4_175275_3186	NW_004517365.1	Scaffold2408	3186	TT	CC	1947034606
SNP_P4_175276_3350	NW_004517365.1	Scaffold2408	3350	AA	GG	1947034608
SNP_P4_175278_662	NW_004517366.1	Scaffold2409	662	AA	GG	1947034610
SNP_P4_175279_677	NW_004517366.1	Scaffold2409	677	TT	CC	1947034612
SNP_P4_175280_678	NW_004517366.1	Scaffold2409	678	CC	GG	1947034613
SNP_P4_175281_655	NW_004517367.1	Scaffold2410	655	AA	TT	1947034614
SNP_P4_175282_7280	NW_004517367.1	Scaffold2410	7280	CC	GG	1947034615
SNP_P4_175283_7597	NW_004517367.1	Scaffold2410	7597	CC	AA	1947034617
SNP_P4_175284_7617	NW_004517367.1	Scaffold2410	7617	AA	GG	1947034619
SNP_P4_175285_7622	NW_004517367.1	Scaffold2410	7622	AA	GG	1947034621
SNP_P4_175286_7647	NW_004517367.1	Scaffold2410	7647	TT	AA	1947034623
SNP_P4_175287_7698	NW_004517367.1	Scaffold2410	7698	AA	TT	1947034625
SNP_P4_175288_9754	NW_004517367.1	Scaffold2410	9754	AA	GG	1947034627
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SNP_P4_175290_10085	NW_004517367.1	Scaffold2410	10085	AA	TT	1947034631
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SNP_P4_175292_12588	NW_004517367.1	Scaffold2410	12588	TT	GG	1947034635
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SNP_P4_175295_16089	NW_004517367.1	Scaffold2410	16089	AA	CC	1947034639
SNP_P4_175296_16117	NW_004517367.1	Scaffold2410	16117	GG	AA	1947034641
SNP_P4_175297_16156	NW_004517367.1	Scaffold2410	16156	CC	TT	1947034643
SNP_P4_175298_16181	NW_004517367.1	Scaffold2410	16181	GG	TT	1947034645
SNP_P4_175299_16202	NW_004517367.1	Scaffold2410	16202	AA	GG	1947034647
SNP_P4_175300_31461	NW_004517367.1	Scaffold2410	31461	CC	AA	1947034650
SNP_P4_175301_31666	NW_004517367.1	Scaffold2410	31666	AA	TT	1947034652
SNP_P4_175302_31852	NW_004517367.1	Scaffold2410	31852	CC	GG	1947034654
SNP_P4_175303_7148	NW_004517369.1	Scaffold2412	7148	AA	TT	1947034656
SNP_P4_175304_9232	NW_004517369.1	Scaffold2412	9232	CC	TT	1947034658
SNP_P4_175306_12803	NW_004517369.1	Scaffold2412	12803	AA	GG	1947034660
SNP_P4_175307_12836	NW_004517369.1	Scaffold2412	12836	TT	CC	1947034662
SNP_P4_175308_12851	NW_004517369.1	Scaffold2412	12851	GG	AA	1947034664
SNP_P4_175309_12853	NW_004517369.1	Scaffold2412	12853	TT	CC	1947034666

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_175311_12865	NW_004517369.1	Scaffold2412	12865	AA	GG	1947034670
SNP_P4_175312_12866	NW_004517369.1	Scaffold2412	12866	GG	AA	1947034673
SNP_P4_175313_13184	NW_004517369.1	Scaffold2412	13184	TT	CC	1947034675
SNP_P4_175314_19472	NW_004517369.1	Scaffold2412	19472	CC	TT	1947034677
SNP_P4_175315_19481	NW_004517369.1	Scaffold2412	19481	AA	GG	1947034679
SNP_P4_175316_19516	NW_004517369.1	Scaffold2412	19516	AA	GG	1947034681
SNP_P4_175317_22001	NW_004517369.1	Scaffold2412	22001	AA	TT	1947034683
SNP_P4_175318_29399	NW_004517369.1	Scaffold2412	29399	GG	CC	1947034685
SNP_P4_175319_31248	NW_004517369.1	Scaffold2412	31248	TT	AA	1947034687
SNP_P4_175320_36921	NW_004517369.1	Scaffold2412	36921	GG	TT	1947034689
SNP_P4_175321_40825	NW_004517369.1	Scaffold2412	40825	GG	AA	1947034691
SNP_P4_175322_40845	NW_004517369.1	Scaffold2412	40845	AA	GG	1947034693
SNP_P4_175323_40866	NW_004517369.1	Scaffold2412	40866	GG	AA	1947034695
SNP_P4_175324_46553	NW_004517369.1	Scaffold2412	46553	TT	AA	1947034697
SNP_P4_175325_48500	NW_004517369.1	Scaffold2412	48500	TT	AA	1947034699
SNP_P4_175326_64258	NW_004517369.1	Scaffold2412	64258	AA	GG	1947034701
SNP_P4_175327_64281	NW_004517369.1	Scaffold2412	64281	TT	AA	1947034703
SNP_P4_175328_500	NW_004517370.1	Scaffold2413	500	AA	GG	1947034705
SNP_P4_175329_6188	NW_004517370.1	Scaffold2413	6188	AA	TT	1947034707
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SNP_P4_175331_6212	NW_004517370.1	Scaffold2413	6212	CC	TT	1947034711
SNP_P4_175332_6251	NW_004517370.1	Scaffold2413	6251	TT	CC	1947034713
SNP_P4_175333_6276	NW_004517370.1	Scaffold2413	6276	AA	GG	1947034715
SNP_P4_175334_12150	NW_004517370.1	Scaffold2413	12150	CC	AA	1947034717
SNP_P4_175335_12575	NW_004517370.1	Scaffold2413	12575	TT	GG	1947034720
SNP_P4_175336_12778	NW_004517370.1	Scaffold2413	12778	GG	TT	1947034722
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SNP_P4_175338_12934	NW_004517370.1	Scaffold2413	12934	AA	GG	1947034726
SNP_P4_175339_258	NW_004517371.1	Scaffold2415	258	GG	AA	1947034728
SNP_P4_175340_627	NW_004517371.1	Scaffold2415	627	TT	CC	1947034730
SNP_P4_175343_29351	NW_004517371.1	Scaffold2415	29351	AA	GG	1947034732
SNP_P4_175344_35508	NW_004517371.1	Scaffold2415	35508	CC	TT	1947034734
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SNP_P4_175347_73564	NW_004517371.1	Scaffold2415	73564	CC	TT	1947034740
SNP_P4_175348_86168	NW_004517371.1	Scaffold2415	86168	GG	AA	1947034742
SNP_P4_175349_92168	NW_004517371.1	Scaffold2415	92168	CC	TT	1947034744
SNP_P4_175350_1687	NW_004517373.1	Scaffold2419	1687	TT	CC	1947034747
SNP_P4_175351_8079	NW_004517375.1	Scaffold2421	8079	AA	GG	1947034749
SNP_P4_175352_8337	NW_004517375.1	Scaffold2421	8337	CC	AA	1947034751
SNP_P4_175353_8411	NW_004517375.1	Scaffold2421	8411	AA	TT	1947034753

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_175356_12636	NW_004517375.1	Scaffold2421	12636	AA	TT	1947034759
SNP_P4_175357_16779	NW_004517375.1	Scaffold2421	16779	CC	AA	1947034761
SNP_P4_175358_16780	NW_004517375.1	Scaffold2421	16780	AA	CC	1947034763
SNP_P4_175359_16787	NW_004517375.1	Scaffold2421	16787	TT	AA	1947034765
SNP_P4_175360_17169	NW_004517375.1	Scaffold2421	17169	CC	TT	1947034767
SNP_P4_175361_17519	NW_004517375.1	Scaffold2421	17519	AA	CC	1947034769
SNP_P4_175362_23152	NW_004517375.1	Scaffold2421	23152	TT	AA	1947034771
SNP_P4_175363_24715	NW_004517375.1	Scaffold2421	24715	CC	AA	1947034773
SNP_P4_175364_24823	NW_004517375.1	Scaffold2421	24823	AA	GG	1947034775
SNP_P4_175365_25154	NW_004517375.1	Scaffold2421	25154	TT	CC	1947034777
SNP_P4_175366_25239	NW_004517375.1	Scaffold2421	25239	TT	AA	1947034779
SNP_P4_175367_25251	NW_004517375.1	Scaffold2421	25251	TT	GG	1947034781
SNP_P4_175368_25396	NW_004517375.1	Scaffold2421	25396	CC	AA	1947034783
SNP_P4_175369_25969	NW_004517375.1	Scaffold2421	25969	GG	TT	1947034786
SNP_P4_175370_31994	NW_004517375.1	Scaffold2421	31994	TT	GG	1947034788
SNP_P4_175371_34227	NW_004517375.1	Scaffold2421	34227	CC	TT	1947034790
SNP_P4_175372_34315	NW_004517375.1	Scaffold2421	34315	TT	CC	1947034792
SNP_P4_175373_34345	NW_004517375.1	Scaffold2421	34345	GG	AA	1947034794
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SNP_P4_175375_34403	NW_004517375.1	Scaffold2421	34403	TT	AA	1947034798
SNP_P4_175376_34411	NW_004517375.1	Scaffold2421	34411	CC	GG	1947034800
SNP_P4_175377_34517	NW_004517375.1	Scaffold2421	34517	TT	AA	1947034802
SNP_P4_175378_34563	NW_004517375.1	Scaffold2421	34563	CC	GG	1947034804
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SNP_P4_175381_39829	NW_004517375.1	Scaffold2421	39829	AA	CC	1947034810
SNP_P4_175382_39855	NW_004517375.1	Scaffold2421	39855	GG	TT	1947034812
SNP_P4_175383_40198	NW_004517375.1	Scaffold2421	40198	TT	CC	1947034814
SNP_P4_175384_40199	NW_004517375.1	Scaffold2421	40199	CC	AA	1947034816
SNP_P4_175385_40288	NW_004517375.1	Scaffold2421	40288	CC	TT	1947034818
SNP_P4_175386_40305	NW_004517375.1	Scaffold2421	40305	GG	AA	1947034820
SNP_P4_175387_40407	NW_004517375.1	Scaffold2421	40407	TT	CC	1947034822
SNP_P4_175388_40451	NW_004517375.1	Scaffold2421	40451	GG	AA	1947034824
SNP_P4_175389_40746	NW_004517375.1	Scaffold2421	40746	CC	TT	1947034826
SNP_P4_175390_44332	NW_004517375.1	Scaffold2421	44332	TT	AA	1947034828
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SNP_P4_175392_44617	NW_004517375.1	Scaffold2421	44617	TT	AA	1947034832
SNP_P4_175393_44628	NW_004517375.1	Scaffold2421	44628	GG	TT	1947034835
SNP_P4_175394_44630	NW_004517375.1	Scaffold2421	44630	TT	AA	1947034837
SNP_P4_175395_44643	NW_004517375.1	Scaffold2421	44643	TT	GG	1947034839

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_175398_48556	NW_004517375.1	Scaffold2421	48556	CC	AA	1947034845
SNP_P4_175399_48748	NW_004517375.1	Scaffold2421	48748	AA	TT	1947034847
SNP_P4_175400_48774	NW_004517375.1	Scaffold2421	48774	CC	AA	1947034849
SNP_P4_175401_48858	NW_004517375.1	Scaffold2421	48858	AA	GG	1947034851
SNP_P4_175402_48876	NW_004517375.1	Scaffold2421	48876	GG	TT	1947034853
SNP_P4_175403_48893	NW_004517375.1	Scaffold2421	48893	CC	TT	1947034855
SNP_P4_175404_49149	NW_004517375.1	Scaffold2421	49149	GG	AA	1947034857
SNP_P4_175405_49273	NW_004517375.1	Scaffold2421	49273	TT	CC	1947034859
SNP_P4_175406_50175	NW_004517375.1	Scaffold2421	50175	AA	GG	1947034861
SNP_P4_175407_50417	NW_004517375.1	Scaffold2421	50417	GG	AA	1947034863
SNP_P4_175409_50655	NW_004517375.1	Scaffold2421	50655	CC	TT	1947034865
SNP_P4_175410_50684	NW_004517375.1	Scaffold2421	50684	AA	GG	1947034868
SNP_P4_175411_50699	NW_004517375.1	Scaffold2421	50699	AA	TT	1947034870
SNP_P4_175412_60418	NW_004517375.1	Scaffold2421	60418	TT	CC	1947034872
SNP_P4_175413_60462	NW_004517375.1	Scaffold2421	60462	AA	CC	1947034874
SNP_P4_175414_60465	NW_004517375.1	Scaffold2421	60465	TT	AA	1947034876
SNP_P4_175415_60467	NW_004517375.1	Scaffold2421	60467	TT	AA	1947034878
SNP_P4_175416_60468	NW_004517375.1	Scaffold2421	60468	TT	CC	1947034880
SNP_P4_175417_60543	NW_004517375.1	Scaffold2421	60543	CC	TT	1947034882
SNP_P4_175418_60563	NW_004517375.1	Scaffold2421	60563	GG	AA	1947034884
SNP_P4_175419_60600	NW_004517375.1	Scaffold2421	60600	TT	CC	1947034886
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SNP_P4_175421_60832	NW_004517375.1	Scaffold2421	60832	CC	TT	1947034890
SNP_P4_175422_61070	NW_004517375.1	Scaffold2421	61070	CC	AA	1947034892
SNP_P4_175423_61097	NW_004517375.1	Scaffold2421	61097	AA	TT	1947034894
SNP_P4_175424_61132	NW_004517375.1	Scaffold2421	61132	AA	GG	1947034896
SNP_P4_175425_61225	NW_004517375.1	Scaffold2421	61225	TT	GG	1947034898
SNP_P4_175426_367	NW_004517381.1	Scaffold2431	367	GG	AA	1947034901
SNP_P4_175427_449	NW_004517381.1	Scaffold2431	449	GG	CC	1947034903
SNP_P4_175428_1641	NW_004517383.1	Scaffold2433	1641	AA	GG	1947034905
SNP_P4_175429_1946	NW_004517383.1	Scaffold2433	1946	AA	GG	1947034907
SNP_P4_175431_2344	NW_004517383.1	Scaffold2433	2344	CC	AA	1947034909
SNP_P4_175432_2346	NW_004517383.1	Scaffold2433	2346	AA	CC	1947034911
SNP_P4_175433_2379	NW_004517383.1	Scaffold2433	2379	CC	AA	1947034913
SNP_P4_175434_2407	NW_004517383.1	Scaffold2433	2407	AA	GG	1947034915
SNP_P4_175436_2779	NW_004517383.1	Scaffold2433	2779	AA	CC	1947034917
SNP_P4_175437_3249	NW_004517383.1	Scaffold2433	3249	GG	AA	1947034919
SNP_P4_175438_3309	NW_004517383.1	Scaffold2433	3309	GG	AA	1947034921
SNP_P4_175439_5423	NW_004517383.1	Scaffold2433	5423	TT	GG	1947034923
SNP_P4_175440_9278	NW_004517383.1	Scaffold2433	9278	AA	CC	1947034925

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_175443_9755	NW_004517383.1	Scaffold2433	9755	GG	TT	1947034931
SNP_P4_175444_9793	NW_004517383.1	Scaffold2433	9793	AA	GG	1947034933
SNP_P4_175445_9800	NW_004517383.1	Scaffold2433	9800	AA	GG	1947034935
SNP_P4_175446_9831	NW_004517383.1	Scaffold2433	9831	TT	CC	1947034937
SNP_P4_175447_12101	NW_004517383.1	Scaffold2433	12101	AA	GG	1947034939
SNP_P4_175448_12881	NW_004517383.1	Scaffold2433	12881	CC	AA	1947034941
SNP_P4_175449_12906	NW_004517383.1	Scaffold2433	12906	TT	CC	1947034943
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SNP_P4_175451_16673	NW_004517383.1	Scaffold2433	16673	GG	AA	1947034947
SNP_P4_175452_16686	NW_004517383.1	Scaffold2433	16686	CC	AA	1947034949
SNP_P4_175453_16701	NW_004517383.1	Scaffold2433	16701	TT	CC	1947034951
SNP_P4_175454_16706	NW_004517383.1	Scaffold2433	16706	AA	GG	1947034953
SNP_P4_175455_16761	NW_004517383.1	Scaffold2433	16761	CC	TT	1947034955
SNP_P4_175456_16830	NW_004517383.1	Scaffold2433	16830	AA	GG	1947034957
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SNP_P4_175472_13054	NW_004517384.1	Scaffold2434	13054	TT	CC	1947034989
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SNP_P4_175475_16288	NW_004517384.1	Scaffold2434	16288	AA	GG	1947034995
SNP_P4_175476_18056	NW_004517384.1	Scaffold2434	18056	GG	AA	1947034997
SNP_P4_175478_18365	NW_004517384.1	Scaffold2434	18365	TT	GG	1947034999
SNP_P4_175479_24686	NW_004517384.1	Scaffold2434	24686	AA	GG	1947035001
SNP_P4_175480_28291	NW_004517384.1	Scaffold2434	28291	AA	TT	1947035003
SNP_P4_175481_28794	NW_004517384.1	Scaffold2434	28794	CC	TT	1947035005
SNP_P4_175482_28811	NW_004517384.1	Scaffold2434	28811	GG	TT	1947035007
SNP_P4_175483_29472	NW_004517384.1	Scaffold2434	29472	TT	GG	1947035009

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_175486_29785	NW_004517384.1	Scaffold2434	29785	CC	TT	1947035015
SNP_P4_175487_29808	NW_004517384.1	Scaffold2434	29808	TT	GG	1947035017
SNP_P4_175488_29858	NW_004517384.1	Scaffold2434	29858	GG	AA	1947035019
SNP_P4_175489_37092	NW_004517384.1	Scaffold2434	37092	GG	AA	1947035021
SNP_P4_175490_37105	NW_004517384.1	Scaffold2434	37105	GG	AA	1947035023
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SNP_P4_175496_45410	NW_004517384.1	Scaffold2434	45410	TT	AA	1947035035
SNP_P4_175497_45465	NW_004517384.1	Scaffold2434	45465	AA	GG	1947035037
SNP_P4_175498_45469	NW_004517384.1	Scaffold2434	45469	GG	AA	1947035039
SNP_P4_175499_45626	NW_004517384.1	Scaffold2434	45626	CC	AA	1947035040
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SNP_P4_175508_770	NW_004517385.1	Scaffold2435	770	TT	AA	1947035047
SNP_P4_175509_860	NW_004517385.1	Scaffold2435	860	CC	AA	1947035048
SNP_P4_175510_905	NW_004517385.1	Scaffold2435	905	CC	TT	1947035049
SNP_P4_175511_346	NW_004517387.1	Scaffold2439	346	TT	CC	1947035051
SNP_P4_175512_348	NW_004517387.1	Scaffold2439	348	TT	GG	1947035053
SNP_P4_175513_64	NW_004517388.1	Scaffold2440	64	CC	TT	1947035055
SNP_P4_175514_199	NW_004517388.1	Scaffold2440	199	TT	AA	1947035057
SNP_P4_175515_1048	NW_004517388.1	Scaffold2440	1048	AA	CC	1947035059
SNP_P4_175516_1196	NW_004517388.1	Scaffold2440	1196	AA	GG	1947035061
SNP_P4_175517_1207	NW_004517388.1	Scaffold2440	1207	AA	TT	1947035063
SNP_P4_175518_1235	NW_004517388.1	Scaffold2440	1235	TT	CC	1947035065
SNP_P4_175519_3335	NW_004517389.1	Scaffold2441	3335	GG	CC	1947035067
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SNP_P4_175521_9535	NW_004517392.1	Scaffold2445	9535	TT	GG	1947035071
SNP_P4_175522_9539	NW_004517392.1	Scaffold2445	9539	TT	AA	1947035073
SNP_P4_175523_9552	NW_004517392.1	Scaffold2445	9552	TT	GG	1947035075
SNP_P4_175524_9553	NW_004517392.1	Scaffold2445	9553	CC	GG	1947035077
SNP_P4_175525_9574	NW_004517392.1	Scaffold2445	9574	AA	TT	1947035079
SNP_P4_175526_9592	NW_004517392.1	Scaffold2445	9592	GG	AA	1947035081
SNP_P4_175527_10114	NW_004517392.1	Scaffold2445	10114	AA	GG	1947035083

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_175528_10126	NW_004517392.1	Scaffold2445	10126	AA	GG	1947035085
SNP_P4_175529_10644	NW_004517392.1	Scaffold2445	10644	CC	TT	1947035087
SNP_P4_175530_10702	NW_004517392.1	Scaffold2445	10702	AA	CC	1947035089
SNP_P4_175531_10808	NW_004517392.1	Scaffold2445	10808	AA	GG	1947035091
SNP_P4_175532_10809	NW_004517392.1	Scaffold2445	10809	CC	AA	1947035093
SNP_P4_175533_10873	NW_004517392.1	Scaffold2445	10873	CC	TT	1947035095
SNP_P4_175534_10926	NW_004517392.1	Scaffold2445	10926	GG	TT	1947035097
SNP_P4_175535_10976	NW_004517392.1	Scaffold2445	10976	CC	TT	1947035099
SNP_P4_175536_10989	NW_004517392.1	Scaffold2445	10989	TT	AA	1947035101
SNP_P4_175537_11821	NW_004517392.1	Scaffold2445	11821	CC	TT	1947035103
SNP_P4_175538_11828	NW_004517392.1	Scaffold2445	11828	TT	CC	1947035105
SNP_P4_175539_11838	NW_004517392.1	Scaffold2445	11838	AA	CC	1947035107
SNP_P4_175540_11912	NW_004517392.1	Scaffold2445	11912	GG	AA	1947035109
SNP_P4_175541_19737	NW_004517392.1	Scaffold2445	19737	CC	TT	1947035111
SNP_P4_175542_20624	NW_004517392.1	Scaffold2445	20624	AA	TT	1947035113
SNP_P4_175543_20650	NW_004517392.1	Scaffold2445	20650	AA	TT	1947035115
SNP_P4_175544_32039	NW_004517392.1	Scaffold2445	32039	GG	TT	1947035117
SNP_P4_175545_32090	NW_004517392.1	Scaffold2445	32090	TT	GG	1947035119
SNP_P4_175546_32477	NW_004517392.1	Scaffold2445	32477	TT	AA	1947035122
SNP_P4_175547_32478	NW_004517392.1	Scaffold2445	32478	AA	GG	1947035124
SNP_P4_175548_300	NW_004517393.1	Scaffold2446	300	GG	AA	1947035126
SNP_P4_175549_354	NW_004517393.1	Scaffold2446	354	CC	AA	1947035128
SNP_P4_175550_5151	NW_004517393.1	Scaffold2446	5151	AA	TT	1947035131
SNP_P4_175551_5237	NW_004517393.1	Scaffold2446	5237	CC	AA	1947035133
SNP_P4_175552_5247	NW_004517393.1	Scaffold2446	5247	AA	TT	1947035135
SNP_P4_175553_5989	NW_004517393.1	Scaffold2446	5989	AA	TT	1947035137
SNP_P4_175554_6003	NW_004517393.1	Scaffold2446	6003	GG	AA	1947035139
SNP_P4_175555_6023	NW_004517393.1	Scaffold2446	6023	TT	CC	1947035141
SNP_P4_175556_6229	NW_004517393.1	Scaffold2446	6229	CC	AA	1947035143
SNP_P4_175557_6274	NW_004517393.1	Scaffold2446	6274	AA	TT	1947035145
SNP_P4_175558_6296	NW_004517393.1	Scaffold2446	6296	GG	AA	1947035147
SNP_P4_175559_6308	NW_004517393.1	Scaffold2446	6308	GG	AA	1947035149
SNP_P4_175560_6312	NW_004517393.1	Scaffold2446	6312	TT	AA	1947035151
SNP_P4_175561_6347	NW_004517393.1	Scaffold2446	6347	CC	TT	1947035154
SNP_P4_175562_6720	NW_004517393.1	Scaffold2446	6720	GG	CC	1947035156
SNP_P4_175563_6728	NW_004517393.1	Scaffold2446	6728	TT	GG	1947035158
SNP_P4_175564_6729	NW_004517393.1	Scaffold2446	6729	TT	AA	1947035160
SNP_P4_175565_6772	NW_004517393.1	Scaffold2446	6772	AA	TT	1947035162
SNP_P4_175566_6799	NW_004517393.1	Scaffold2446	6799	TT	CC	1947035164
SNP_P4_175567_6820	NW_004517393.1	Scaffold2446	6820	TT	GG	1947035166
SNP_P4_175568_6827	NW_004517393.1	Scaffold2446	6827	CC	GG	1947035168
SNP_P4_175569_6866	NW_004517393.1	Scaffold2446	6866	TT	AA	1947035170

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_175571_6984	NW_004517393.1	Scaffold2446	6984	TT	GG	1947035174
SNP_P4_175573_9150	NW_004517393.1	Scaffold2446	9150	CC	AA	1947035176
SNP_P4_175574_10077	NW_004517393.1	Scaffold2446	10077	TT	AA	1947035178
SNP_P4_175575_10372	NW_004517393.1	Scaffold2446	10372	TT	CC	1947035180
SNP_P4_175576_10393	NW_004517393.1	Scaffold2446	10393	AA	CC	1947035182
SNP_P4_175577_13973	NW_004517393.1	Scaffold2446	13973	CC	AA	1947035184
SNP_P4_175578_158	NW_004517395.1	Scaffold2450	158	CC	AA	1947035186
SNP_P4_175579_438	NW_004517395.1	Scaffold2450	438	TT	AA	1947035188
SNP_P4_175580_503	NW_004517395.1	Scaffold2450	503	TT	CC	1947035191
SNP_P4_175581_4168	NW_004517397.1	Scaffold2455	4168	TT	CC	1947035193
SNP_P4_175582_1835	NW_004517398.1	Scaffold2456	1835	TT	CC	1947035195
SNP_P4_175583_6356	NW_004517398.1	Scaffold2456	6356	GG	AA	1947035197
SNP_P4_175584_7976	NW_004517398.1	Scaffold2456	7976	GG	AA	1947035199
SNP_P4_175585_1128	NW_004517400.1	Scaffold2458	1128	AA	GG	1947035201
SNP_P4_175587_2123	NW_004517400.1	Scaffold2458	2123	AA	TT	1947035203
SNP_P4_175588_20180	NW_004517401.1	Scaffold2459	20180	AA	CC	1947035205
SNP_P4_175590_21669	NW_004517401.1	Scaffold2459	21669	TT	CC	1947035207
SNP_P4_175591_21942	NW_004517401.1	Scaffold2459	21942	TT	GG	1947035209
SNP_P4_175592_25301	NW_004517401.1	Scaffold2459	25301	CC	TT	1947035211
SNP_P4_175593_28552	NW_004517401.1	Scaffold2459	28552	AA	CC	1947035213
SNP_P4_175594_28597	NW_004517401.1	Scaffold2459	28597	AA	CC	1947035215
SNP_P4_175595_35476	NW_004517401.1	Scaffold2459	35476	GG	TT	1947035217
SNP_P4_175596_35616	NW_004517401.1	Scaffold2459	35616	AA	GG	1947035219
SNP_P4_175597_37678	NW_004517401.1	Scaffold2459	37678	AA	GG	1947035221
SNP_P4_175598_38105	NW_004517401.1	Scaffold2459	38105	TT	CC	1947035223
SNP_P4_175599_41930	NW_004517401.1	Scaffold2459	41930	AA	GG	1947035225
SNP_P4_175600_42218	NW_004517401.1	Scaffold2459	42218	AA	CC	1947035227
SNP_P4_175602_42356	NW_004517401.1	Scaffold2459	42356	TT	GG	1947035229
SNP_P4_175603_42397	NW_004517401.1	Scaffold2459	42397	AA	CC	1947035231
SNP_P4_175604_42489	NW_004517401.1	Scaffold2459	42489	CC	GG	1947035233
SNP_P4_175605_42531	NW_004517401.1	Scaffold2459	42531	TT	CC	1947035235
SNP_P4_175606_42584	NW_004517401.1	Scaffold2459	42584	CC	TT	1947035237
SNP_P4_175607_42613	NW_004517401.1	Scaffold2459	42613	CC	TT	1947035239
SNP_P4_175608_42921	NW_004517401.1	Scaffold2459	42921	TT	AA	1947035242
SNP_P4_175609_50880	NW_004517401.1	Scaffold2459	50880	GG	AA	1947035244
SNP_P4_175610_50886	NW_004517401.1	Scaffold2459	50886	GG	AA	1947035246
SNP_P4_175611_58077	NW_004517401.1	Scaffold2459	58077	AA	GG	1947035248
SNP_P4_175612_58104	NW_004517401.1	Scaffold2459	58104	GG	AA	1947035250
SNP_P4_175613_65579	NW_004517401.1	Scaffold2459	65579	TT	CC	1947035252
SNP_P4_175614_66095	NW_004517401.1	Scaffold2459	66095	TT	CC	1947035254
SNP_P4_175615_66099	NW_004517401.1	Scaffold2459	66099	AA	GG	1947035256

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_175617_66397	NW_004517401.1	Scaffold2459	66397	CC	TT	1947035260
SNP_P4_175618_72211	NW_004517401.1	Scaffold2459	72211	AA	GG	1947035262
SNP_P4_175619_72230	NW_004517401.1	Scaffold2459	72230	CC	AA	1947035264
SNP_P4_175620_72242	NW_004517401.1	Scaffold2459	72242	GG	TT	1947035266
SNP_P4_175621_72283	NW_004517401.1	Scaffold2459	72283	CC	GG	1947035268
SNP_P4_175622_72567	NW_004517401.1	Scaffold2459	72567	GG	TT	1947035270
SNP_P4_175623_72571	NW_004517401.1	Scaffold2459	72571	GG	AA	1947035272
SNP_P4_175624_72611	NW_004517401.1	Scaffold2459	72611	CC	TT	1947035274
SNP_P4_175625_73416	NW_004517401.1	Scaffold2459	73416	GG	AA	1947035276
SNP_P4_175627_80577	NW_004517401.1	Scaffold2459	80577	TT	CC	1947035278
SNP_P4_175628_80838	NW_004517401.1	Scaffold2459	80838	CC	AA	1947035280
SNP_P4_175629_679	NW_004517403.1	Scaffold2463	679	CC	TT	1947035282
SNP_P4_175631_38	NW_004517408.1	Scaffold2470	38	GG	AA	1947035284
SNP_P4_175632_7426	NW_004517408.1	Scaffold2470	7426	CC	AA	1947035286
SNP_P4_175633_7446	NW_004517408.1	Scaffold2470	7446	AA	CC	1947035287
SNP_P4_175634_10856	NW_004517408.1	Scaffold2470	10856	AA	GG	1947035289
SNP_P4_175635_10933	NW_004517408.1	Scaffold2470	10933	AA	GG	1947035291
SNP_P4_175636_10983	NW_004517408.1	Scaffold2470	10983	AA	TT	1947035293
SNP_P4_175637_11297	NW_004517408.1	Scaffold2470	11297	AA	TT	1947035295
SNP_P4_175638_11325	NW_004517408.1	Scaffold2470	11325	TT	CC	1947035297
SNP_P4_175639_64	NW_004517409.1	Scaffold2471	64	CC	TT	1947035299
SNP_P4_175640_65	NW_004517409.1	Scaffold2471	65	TT	GG	1947035301
SNP_P4_175641_104	NW_004517409.1	Scaffold2471	104	CC	TT	1947035303
SNP_P4_175642_115	NW_004517409.1	Scaffold2471	115	CC	TT	1947035305
SNP_P4_175643_251	NW_004517409.1	Scaffold2471	251	TT	GG	1947035307
SNP_P4_175644_281	NW_004517409.1	Scaffold2471	281	CC	AA	1947035309
SNP_P4_175645_403	NW_004517409.1	Scaffold2471	403	CC	TT	1947035311
SNP_P4_175646_537	NW_004517409.1	Scaffold2471	537	TT	GG	1947035313
SNP_P4_175647_952	NW_004517409.1	Scaffold2471	952	CC	TT	1947035315
SNP_P4_175648_959	NW_004517409.1	Scaffold2471	959	CC	TT	1947035317
SNP_P4_175649_1516	NW_004517409.1	Scaffold2471	1516	CC	AA	1947035319
SNP_P4_175650_2114	NW_004517411.1	Scaffold2473	2114	TT	GG	1947035321
SNP_P4_175651_2169	NW_004517411.1	Scaffold2473	2169	CC	TT	1947035323
SNP_P4_175652_2731	NW_004517411.1	Scaffold2473	2731	GG	CC	1947035325
SNP_P4_175653_6417	NW_004517411.1	Scaffold2473	6417	CC	TT	1947035327
SNP_P4_175654_6439	NW_004517411.1	Scaffold2473	6439	GG	AA	1947035329
SNP_P4_175655_6471	NW_004517411.1	Scaffold2473	6471	CC	TT	1947035331
SNP_P4_175656_6734	NW_004517411.1	Scaffold2473	6734	GG	AA	1947035333
SNP_P4_175657_442	NW_004517413.1	Scaffold2477	442	AA	TT	1947035335
SNP_P4_175658_15666	NW_004517413.1	Scaffold2477	15666	AA	TT	1947035337
SNP_P4_175659_15723	NW_004517413.1	Scaffold2477	15723	GG	TT	1947035339

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_175661_15727	NW_004517413.1	Scaffold2477	15727	CC	TT	1947035343
SNP_P4_175662_15749	NW_004517413.1	Scaffold2477	15749	CC	TT	1947035345
SNP_P4_175663_15849	NW_004517413.1	Scaffold2477	15849	TT	GG	1947035347
SNP_P4_175664_15880	NW_004517413.1	Scaffold2477	15880	TT	AA	1947035349
SNP_P4_175665_17705	NW_004517413.1	Scaffold2477	17705	CC	TT	1947035351
SNP_P4_175666_17765	NW_004517413.1	Scaffold2477	17765	AA	CC	1947035353
SNP_P4_175667_70	NW_004517415.1	Scaffold2482	70	TT	CC	1947035355
SNP_P4_175668_315	NW_004517415.1	Scaffold2482	315	GG	AA	1947035357
SNP_P4_175670_6184	NW_004517415.1	Scaffold2482	6184	TT	CC	1947035359
SNP_P4_175671_6192	NW_004517415.1	Scaffold2482	6192	TT	CC	1947035361
SNP_P4_175672_6661	NW_004517415.1	Scaffold2482	6661	GG	AA	1947035363
SNP_P4_175673_8282	NW_004517415.1	Scaffold2482	8282	CC	TT	1947035365
SNP_P4_175674_9061	NW_004517415.1	Scaffold2482	9061	AA	GG	1947035367
SNP_P4_175675_9062	NW_004517415.1	Scaffold2482	9062	AA	GG	1947035369
SNP_P4_175676_11066	NW_004517415.1	Scaffold2482	11066	TT	CC	1947035371
SNP_P4_175677_11105	NW_004517415.1	Scaffold2482	11105	CC	TT	1947035373
SNP_P4_175678_11671	NW_004517415.1	Scaffold2482	11671	AA	CC	1947035375
SNP_P4_175679_11761	NW_004517415.1	Scaffold2482	11761	TT	GG	1947035377
SNP_P4_175680_398	NW_004517416.1	Scaffold2483	398	CC	AA	1947035379
SNP_P4_175681_755	NW_004517416.1	Scaffold2483	755	TT	AA	1947035381
SNP_P4_175682_905	NW_004517416.1	Scaffold2483	905	TT	AA	1947035383
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SNP_P4_175685_1489	NW_004517416.1	Scaffold2483	1489	AA	GG	1947035389
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SNP_P4_175687_274	NW_004517417.1	Scaffold2484	274	GG	CC	1947035393
SNP_P4_175688_308	NW_004517417.1	Scaffold2484	308	CC	AA	1947035395
SNP_P4_175689_310	NW_004517417.1	Scaffold2484	310	AA	TT	1947035397
SNP_P4_175690_311	NW_004517417.1	Scaffold2484	311	TT	AA	1947035399
SNP_P4_175691_343	NW_004517417.1	Scaffold2484	343	GG	TT	1947035401
SNP_P4_175692_344	NW_004517417.1	Scaffold2484	344	AA	TT	1947035403
SNP_P4_175693_356	NW_004517417.1	Scaffold2484	356	TT	CC	1947035405
SNP_P4_175694_362	NW_004517417.1	Scaffold2484	362	GG	AA	1947035406
SNP_P4_175695_2362	NW_004517419.1	Scaffold2486	2362	GG	TT	1947035408
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SNP_P4_175697_2718	NW_004517419.1	Scaffold2486	2718	AA	TT	1947035412
SNP_P4_175698_2929	NW_004517419.1	Scaffold2486	2929	GG	CC	1947035414
SNP_P4_175699_7135	NW_004517419.1	Scaffold2486	7135	AA	CC	1947035416
SNP_P4_175700_7210	NW_004517419.1	Scaffold2486	7210	TT	GG	1947035418
SNP_P4_175701_7255	NW_004517419.1	Scaffold2486	7255	AA	CC	1947035420
SNP_P4_175702_7287	NW_004517419.1	Scaffold2486	7287	GG	AA	1947035422

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_175704_7521	NW_004517419.1	Scaffold2486	7521	GG	AA	1947035425
SNP_P4_175705_7526	NW_004517419.1	Scaffold2486	7526	CC	TT	1947035427
SNP_P4_175706_7553	NW_004517419.1	Scaffold2486	7553	GG	TT	1947035429
SNP_P4_175707_7837	NW_004517419.1	Scaffold2486	7837	AA	CC	1947035431
SNP_P4_175708_8099	NW_004517419.1	Scaffold2486	8099	GG	CC	1947035433
SNP_P4_175709_8298	NW_004517419.1	Scaffold2486	8298	GG	AA	1947035435
SNP_P4_175710_8714	NW_004517419.1	Scaffold2486	8714	CC	AA	1947035437
SNP_P4_175711_9104	NW_004517419.1	Scaffold2486	9104	GG	CC	1947035439
SNP_P4_175712_9721	NW_004517419.1	Scaffold2486	9721	GG	TT	1947035441
SNP_P4_175713_11543	NW_004517419.1	Scaffold2486	11543	CC	GG	1947035443
SNP_P4_175714_101	NW_004517420.1	Scaffold2487	101	CC	AA	1947035445
SNP_P4_175715_159	NW_004517420.1	Scaffold2487	159	TT	CC	1947035447
SNP_P4_175716_160	NW_004517420.1	Scaffold2487	160	GG	TT	1947035449
SNP_P4_175717_410	NW_004517420.1	Scaffold2487	410	AA	GG	1947035451
SNP_P4_175718_524	NW_004517420.1	Scaffold2487	524	AA	CC	1947035453
SNP_P4_175719_931	NW_004517420.1	Scaffold2487	931	TT	CC	1947035455
SNP_P4_175720_1571	NW_004517420.1	Scaffold2487	1571	AA	GG	1947035457
SNP_P4_175721_1658	NW_004517420.1	Scaffold2487	1658	GG	AA	1947035459
SNP_P4_175722_1799	NW_004517420.1	Scaffold2487	1799	TT	CC	1947035461
SNP_P4_175723_1881	NW_004517420.1	Scaffold2487	1881	GG	AA	1947035463
SNP_P4_175724_1909	NW_004517420.1	Scaffold2487	1909	AA	GG	1947035465
SNP_P4_175725_2000	NW_004517420.1	Scaffold2487	2000	GG	AA	1947035467
SNP_P4_175726_2008	NW_004517420.1	Scaffold2487	2008	AA	GG	1947035469
SNP_P4_175727_2027	NW_004517420.1	Scaffold2487	2027	CC	TT	1947035471
SNP_P4_175728_2034	NW_004517420.1	Scaffold2487	2034	GG	AA	1947035473
SNP_P4_175729_2080	NW_004517420.1	Scaffold2487	2080	CC	TT	1947035475
SNP_P4_175730_6023	NW_004517420.1	Scaffold2487	6023	AA	TT	1947035477
SNP_P4_175731_6071	NW_004517420.1	Scaffold2487	6071	TT	CC	1947035479
SNP_P4_175732_6117	NW_004517420.1	Scaffold2487	6117	TT	CC	1947035481
SNP_P4_175733_6244	NW_004517420.1	Scaffold2487	6244	GG	TT	1947035483
SNP_P4_175734_6256	NW_004517420.1	Scaffold2487	6256	AA	CC	1947035485
SNP_P4_175735_6422	NW_004517420.1	Scaffold2487	6422	TT	CC	1947035487
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SNP_P4_175737_6435	NW_004517420.1	Scaffold2487	6435	CC	AA	1947035491
SNP_P4_175738_6437	NW_004517420.1	Scaffold2487	6437	AA	TT	1947035493
SNP_P4_175739_6444	NW_004517420.1	Scaffold2487	6444	CC	TT	1947035495
SNP_P4_175740_6451	NW_004517420.1	Scaffold2487	6451	TT	AA	1947035496
SNP_P4_175741_64	NW_004517422.1	Scaffold2489	64	CC	TT	1947035498
SNP_P4_175742_66	NW_004517422.1	Scaffold2489	66	CC	GG	1947035500
SNP_P4_175743_1772	NW_004517422.1	Scaffold2489	1772	CC	AA	1947035502
SNP_P4_175744_2021	NW_004517422.1	Scaffold2489	2021	TT	AA	1947035504

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_175749_2123	NW_004517422.1	Scaffold2489	2123	AA	GG	1947035510
SNP_P4_175750_2185	NW_004517422.1	Scaffold2489	2185	TT	AA	1947035512
SNP_P4_175751_5795	NW_004517424.1	Scaffold2491	5795	AA	GG	1947035514
SNP_P4_175752_6132	NW_004517424.1	Scaffold2491	6132	TT	CC	1947035516
SNP_P4_175754_6363	NW_004517424.1	Scaffold2491	6363	CC	TT	1947035518
SNP_P4_175755_6501	NW_004517424.1	Scaffold2491	6501	GG	AA	1947035520
SNP_P4_175756_6504	NW_004517424.1	Scaffold2491	6504	AA	CC	1947035522
SNP_P4_175757_6586	NW_004517424.1	Scaffold2491	6586	CC	TT	1947035524
SNP_P4_175758_6606	NW_004517424.1	Scaffold2491	6606	TT	CC	1947035526
SNP_P4_175759_6937	NW_004517424.1	Scaffold2491	6937	AA	TT	1947035528
SNP_P4_175760_6939	NW_004517424.1	Scaffold2491	6939	AA	CC	1947035530
SNP_P4_175761_7182	NW_004517424.1	Scaffold2491	7182	AA	GG	1947035531
SNP_P4_175762_7221	NW_004517424.1	Scaffold2491	7221	AA	GG	1947035533
SNP_P4_175763_7552	NW_004517424.1	Scaffold2491	7552	CC	AA	1947035535
SNP_P4_175764_8109	NW_004517424.1	Scaffold2491	8109	AA	TT	1947035537
SNP_P4_175765_239	NW_004517425.1	Scaffold2492	239	CC	TT	1947035539
SNP_P4_175766_590	NW_004517425.1	Scaffold2492	590	TT	CC	1947035542
SNP_P4_175767_628	NW_004517425.1	Scaffold2492	628	GG	TT	1947035544
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SNP_P4_175769_20129	NW_004517426.1	Scaffold2493	20129	TT	CC	1947035548
SNP_P4_175770_665	NW_004517430.1	Scaffold2497	665	CC	GG	1947035550
SNP_P4_175771_744	NW_004517430.1	Scaffold2497	744	AA	CC	1947035553
SNP_P4_175772_756	NW_004517430.1	Scaffold2497	756	TT	AA	1947035555
SNP_P4_175773_765	NW_004517430.1	Scaffold2497	765	AA	GG	1947035557
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SNP_P4_175777_1284	NW_004517430.1	Scaffold2497	1284	AA	GG	1947035565
SNP_P4_175778_1314	NW_004517430.1	Scaffold2497	1314	AA	GG	1947035567
SNP_P4_175779_712	NW_004517431.1	Scaffold2498	712	AA	GG	1947035570
SNP_P4_175780_1133	NW_004517431.1	Scaffold2498	1133	AA	GG	1947035572
SNP_P4_175781_14227	NW_004517431.1	Scaffold2498	14227	TT	CC	1947035574
SNP_P4_175782_14608	NW_004517431.1	Scaffold2498	14608	TT	CC	1947035576
SNP_P4_175784_33652	NW_004517431.1	Scaffold2498	33652	GG	AA	1947035578
SNP_P4_175785_33654	NW_004517431.1	Scaffold2498	33654	AA	GG	1947035580
SNP_P4_175788_16229	NW_004517433.1	Scaffold2501	16229	AA	GG	1947035582
SNP_P4_175789_16239	NW_004517433.1	Scaffold2501	16239	CC	AA	1947035584
SNP_P4_175790_16249	NW_004517433.1	Scaffold2501	16249	TT	CC	1947035586
SNP_P4_175791_4895	NW_004517435.1	Scaffold2504	4895	CC	GG	1947035588
SNP_P4_175792_748	NW_004517436.1	Scaffold2505	748	CC	TT	1947035590

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_175795_796	NW_004517436.1	Scaffold2505	796	AA	GG	1947035596
SNP_P4_175796_839	NW_004517436.1	Scaffold2505	839	CC	AA	1947035598
SNP_P4_175797_895	NW_004517436.1	Scaffold2505	895	TT	AA	1947035599
SNP_P4_175798_1056	NW_004517436.1	Scaffold2505	1056	TT	GG	1947035601
SNP_P4_175799_1078	NW_004517436.1	Scaffold2505	1078	AA	GG	1947035603
SNP_P4_175800_1329	NW_004517436.1	Scaffold2505	1329	TT	AA	1947035605
SNP_P4_175801_1377	NW_004517436.1	Scaffold2505	1377	TT	CC	1947035607
SNP_P4_175802_1424	NW_004517436.1	Scaffold2505	1424	AA	TT	1947035609
SNP_P4_175804_1785	NW_004517436.1	Scaffold2505	1785	TT	AA	1947035611
SNP_P4_175806_1924	NW_004517436.1	Scaffold2505	1924	TT	AA	1947035613
SNP_P4_175807_2133	NW_004517436.1	Scaffold2505	2133	AA	CC	1947035615
SNP_P4_175808_2196	NW_004517436.1	Scaffold2505	2196	TT	CC	1947035617
SNP_P4_175809_2231	NW_004517436.1	Scaffold2505	2231	CC	TT	1947035619
SNP_P4_175810_2314	NW_004517436.1	Scaffold2505	2314	AA	GG	1947035621
SNP_P4_175811_2342	NW_004517436.1	Scaffold2505	2342	GG	AA	1947035623
SNP_P4_175812_2353	NW_004517436.1	Scaffold2505	2353	AA	GG	1947035625
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SNP_P4_175815_2396	NW_004517436.1	Scaffold2505	2396	TT	CC	1947035631
SNP_P4_175816_2426	NW_004517436.1	Scaffold2505	2426	GG	TT	1947035633
SNP_P4_175817_2489	NW_004517436.1	Scaffold2505	2489	AA	TT	1947035635
SNP_P4_175818_2499	NW_004517436.1	Scaffold2505	2499	GG	CC	1947035637
SNP_P4_175819_2501	NW_004517436.1	Scaffold2505	2501	GG	AA	1947035639
SNP_P4_175820_2540	NW_004517436.1	Scaffold2505	2540	CC	AA	1947035641
SNP_P4_175821_2542	NW_004517436.1	Scaffold2505	2542	TT	CC	1947035642
SNP_P4_175822_2566	NW_004517436.1	Scaffold2505	2566	TT	CC	1947035644
SNP_P4_175823_2787	NW_004517436.1	Scaffold2505	2787	TT	AA	1947035646
SNP_P4_175824_2798	NW_004517436.1	Scaffold2505	2798	GG	CC	1947035648
SNP_P4_175825_2841	NW_004517436.1	Scaffold2505	2841	TT	AA	1947035650
SNP_P4_175826_2846	NW_004517436.1	Scaffold2505	2846	AA	TT	1947035652
SNP_P4_175827_276	NW_004517437.1	Scaffold2506	276	TT	AA	1947035654
SNP_P4_175828_291	NW_004517437.1	Scaffold2506	291	TT	CC	1947035656
SNP_P4_175829_9883	NW_004517437.1	Scaffold2506	9883	TT	GG	1947035658
SNP_P4_175830_10382	NW_004517437.1	Scaffold2506	10382	AA	GG	1947035660
SNP_P4_175831_701	NW_004517439.1	Scaffold2511	701	AA	TT	1947035661
SNP_P4_175832_710	NW_004517439.1	Scaffold2511	710	AA	TT	1947035663
SNP_P4_175833_1230	NW_004517439.1	Scaffold2511	1230	AA	GG	1947035665
SNP_P4_175834_1290	NW_004517439.1	Scaffold2511	1290	AA	CC	1947035667
SNP_P4_175835_1294	NW_004517439.1	Scaffold2511	1294	CC	TT	1947035669
SNP_P4_175836_1564	NW_004517439.1	Scaffold2511	1564	GG	TT	1947035671

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_175839_1900	NW_004517439.1	Scaffold2511	1900	AA	GG	1947035677
SNP_P4_175840_2008	NW_004517439.1	Scaffold2511	2008	TT	CC	1947035679
SNP_P4_175841_2605	NW_004517439.1	Scaffold2511	2605	CC	TT	1947035681
SNP_P4_175842_2966	NW_004517439.1	Scaffold2511	2966	GG	AA	1947035683
SNP_P4_175843_3048	NW_004517439.1	Scaffold2511	3048	CC	TT	1947035684
SNP_P4_175844_3204	NW_004517439.1	Scaffold2511	3204	AA	GG	1947035686
SNP_P4_175845_3234	NW_004517439.1	Scaffold2511	3234	CC	GG	1947035688
SNP_P4_175846_3419	NW_004517439.1	Scaffold2511	3419	TT	GG	1947035690
SNP_P4_175847_3461	NW_004517439.1	Scaffold2511	3461	TT	CC	1947035692
SNP_P4_175848_3736	NW_004517439.1	Scaffold2511	3736	GG	TT	1947035694
SNP_P4_175849_3878	NW_004517439.1	Scaffold2511	3878	CC	TT	1947035696
SNP_P4_175850_4473	NW_004517439.1	Scaffold2511	4473	TT	CC	1947035698
SNP_P4_175851_4545	NW_004517439.1	Scaffold2511	4545	GG	TT	1947035700
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SNP_P4_175853_4683	NW_004517439.1	Scaffold2511	4683	GG	TT	1947035704
SNP_P4_175854_4760	NW_004517439.1	Scaffold2511	4760	AA	GG	1947035706
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SNP_P4_175860_5266	NW_004517439.1	Scaffold2511	5266	TT	CC	1947035715
SNP_P4_175861_5286	NW_004517439.1	Scaffold2511	5286	CC	TT	1947035717
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SNP_P4_175863_5401	NW_004517439.1	Scaffold2511	5401	TT	CC	1947035721
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SNP_P4_175866_5955	NW_004517439.1	Scaffold2511	5955	GG	AA	1947035727
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SNP_P4_175868_6385	NW_004517439.1	Scaffold2511	6385	GG	TT	1947035731
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SNP_P4_175871_7373	NW_004517439.1	Scaffold2511	7373	GG	AA	1947035737
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SNP_P4_175875_10770	NW_004517439.1	Scaffold2511	10770	CC	TT	1947035743
SNP_P4_175876_16892	NW_004517439.1	Scaffold2511	16892	CC	TT	1947035745
SNP_P4_175877_17153	NW_004517439.1	Scaffold2511	17153	TT	CC	1947035747
SNP_P4_175878_17181	NW_004517439.1	Scaffold2511	17181	CC	TT	1947035749
SNP_P4_175879_24730	NW_004517439.1	Scaffold2511	24730	AA	GG	1947035751
SNP_P4_175880_24950	NW_004517439.1	Scaffold2511	24950	GG	TT	1947035753

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_175886_25094	NW_004517439.1	Scaffold2511	25094	TT	AA	1947035765
SNP_P4_175887_25095	NW_004517439.1	Scaffold2511	25095	TT	CC	1947035767
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SNP_P4_175889_25118	NW_004517439.1	Scaffold2511	25118	TT	CC	1947035771
SNP_P4_175890_30596	NW_004517439.1	Scaffold2511	30596	GG	CC	1947035773
SNP_P4_175891_30610	NW_004517439.1	Scaffold2511	30610	AA	TT	1947035775
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SNP_P4_175893_30635	NW_004517439.1	Scaffold2511	30635	AA	GG	1947035779
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SNP_P4_175912_61145	NW_004517439.1	Scaffold2511	61145	CC	TT	1947035826
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SNP_P4_175915_61875	NW_004517439.1	Scaffold2511	61875	AA	CC	1947035832
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SNP_P4_175917_62101	NW_004517439.1	Scaffold2511	62101	TT	GG	1947035836
SNP_P4_175918_62163	NW_004517439.1	Scaffold2511	62163	TT	AA	1947035838
SNP_P4_175919_62221	NW_004517439.1	Scaffold2511	62221	AA	GG	1947035840
SNP_P4_175920_62241	NW_004517439.1	Scaffold2511	62241	GG	AA	1947035842
SNP_P4_175921_62244	NW_004517439.1	Scaffold2511	62244	GG	TT	1947035844
SNP_P4_175922_62260	NW_004517439.1	Scaffold2511	62260	GG	AA	1947035846

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_175925_62523	NW_004517439.1	Scaffold2511	62523	TT	CC	1947035852
SNP_P4_175926_62572	NW_004517439.1	Scaffold2511	62572	GG	TT	1947035854
SNP_P4_175927_64258	NW_004517439.1	Scaffold2511	64258	TT	GG	1947035856
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SNP_P4_175930_65457	NW_004517439.1	Scaffold2511	65457	AA	GG	1947035862
SNP_P4_175931_65629	NW_004517439.1	Scaffold2511	65629	TT	AA	1947035864
SNP_P4_175932_66002	NW_004517439.1	Scaffold2511	66002	TT	GG	1947035866
SNP_P4_175933_66136	NW_004517439.1	Scaffold2511	66136	TT	CC	1947035868
SNP_P4_175934_66183	NW_004517439.1	Scaffold2511	66183	AA	TT	1947035871
SNP_P4_175935_66316	NW_004517439.1	Scaffold2511	66316	GG	AA	1947035873
SNP_P4_175936_66384	NW_004517439.1	Scaffold2511	66384	AA	CC	1947035875
SNP_P4_175937_66443	NW_004517439.1	Scaffold2511	66443	GG	AA	1947035877
SNP_P4_175938_67437	NW_004517439.1	Scaffold2511	67437	AA	TT	1947035879
SNP_P4_175939_424	NW_004517440.1	Scaffold2512	424	TT	AA	1947035881
SNP_P4_175940_445	NW_004517440.1	Scaffold2512	445	AA	TT	1947035883
SNP_P4_175941_448	NW_004517440.1	Scaffold2512	448	AA	GG	1947035885
SNP_P4_175942_474	NW_004517440.1	Scaffold2512	474	TT	AA	1947035887
SNP_P4_175943_753	NW_004517440.1	Scaffold2512	753	GG	TT	1947035889
SNP_P4_175944_26440	NW_004517442.1	Scaffold2516	26440	CC	TT	1947035891
SNP_P4_175945_28704	NW_004517442.1	Scaffold2516	28704	TT	GG	1947035893
SNP_P4_175946_28713	NW_004517442.1	Scaffold2516	28713	GG	AA	1947035895
SNP_P4_175947_58385	NW_004517442.1	Scaffold2516	58385	AA	TT	1947035897
SNP_P4_175948_87281	NW_004517442.1	Scaffold2516	87281	TT	CC	1947035899
SNP_P4_175949_87284	NW_004517442.1	Scaffold2516	87284	GG	AA	1947035901
SNP_P4_175950_87302	NW_004517442.1	Scaffold2516	87302	TT	CC	1947035903
SNP_P4_175951_87319	NW_004517442.1	Scaffold2516	87319	TT	CC	1947035905
SNP_P4_175952_87347	NW_004517442.1	Scaffold2516	87347	TT	CC	1947035907
SNP_P4_175953_87353	NW_004517442.1	Scaffold2516	87353	TT	CC	1947035909
SNP_P4_175954_87419	NW_004517442.1	Scaffold2516	87419	AA	GG	1947035911
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SNP_P4_175957_87670	NW_004517442.1	Scaffold2516	87670	CC	TT	1947035915
SNP_P4_175958_87727	NW_004517442.1	Scaffold2516	87727	TT	CC	1947035917
SNP_P4_175959_87747	NW_004517442.1	Scaffold2516	87747	AA	GG	1947035919
SNP_P4_175960_87792	NW_004517442.1	Scaffold2516	87792	TT	CC	1947035922
SNP_P4_175961_98276	NW_004517442.1	Scaffold2516	98276	TT	AA	1947035924
SNP_P4_175963_2315	NW_004517445.1	Scaffold2519	2315	CC	TT	1947035926
SNP_P4_175964_2369	NW_004517445.1	Scaffold2519	2369	CC	AA	1947035928
SNP_P4_175965_2428	NW_004517445.1	Scaffold2519	2428	AA	TT	1947035930
SNP_P4_175966_30806	NW_004517446.1	Scaffold2521	30806	TT	CC	1947035932

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_175968_31053	NW_004517446.1	Scaffold2521	31053	GG	AA	1947035936
SNP_P4_175970_53757	NW_004517446.1	Scaffold2521	53757	AA	CC	1947035938
SNP_P4_175971_53761	NW_004517446.1	Scaffold2521	53761	GG	CC	1947035940
SNP_P4_175972_56794	NW_004517446.1	Scaffold2521	56794	TT	CC	1947035942
SNP_P4_175973_57886	NW_004517446.1	Scaffold2521	57886	GG	AA	1947035944
SNP_P4_175974_57932	NW_004517446.1	Scaffold2521	57932	GG	CC	1947035946
SNP_P4_175975_75744	NW_004517446.1	Scaffold2521	75744	TT	CC	1947035948
SNP_P4_175976_75781	NW_004517446.1	Scaffold2521	75781	TT	CC	1947035950
SNP_P4_175977_301	NW_004517447.1	Scaffold2522	301	TT	GG	1947035952
SNP_P4_175978_353	NW_004517447.1	Scaffold2522	353	GG	CC	1947035954
SNP_P4_175979_4203	NW_004517447.1	Scaffold2522	4203	GG	AA	1947035956
SNP_P4_175980_4262	NW_004517447.1	Scaffold2522	4262	AA	GG	1947035958
SNP_P4_175981_4385	NW_004517447.1	Scaffold2522	4385	TT	CC	1947035960
SNP_P4_175982_22679	NW_004517447.1	Scaffold2522	22679	GG	TT	1947035962
SNP_P4_175983_21225	NW_004517450.1	Scaffold2526	21225	AA	GG	1947035964
SNP_P4_175985_5161	NW_004517452.1	Scaffold2528	5161	TT	CC	1947035966
SNP_P4_175986_5172	NW_004517452.1	Scaffold2528	5172	GG	TT	1947035968
SNP_P4_175987_5183	NW_004517452.1	Scaffold2528	5183	TT	CC	1947035970
SNP_P4_175988_13125	NW_004517452.1	Scaffold2528	13125	AA	TT	1947035972
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SNP_P4_175990_13270	NW_004517452.1	Scaffold2528	13270	TT	AA	1947035977
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SNP_P4_175992_19221	NW_004517452.1	Scaffold2528	19221	TT	GG	1947035981
SNP_P4_175993_19236	NW_004517452.1	Scaffold2528	19236	AA	GG	1947035983
SNP_P4_175994_19307	NW_004517452.1	Scaffold2528	19307	CC	TT	1947035985
SNP_P4_175995_19335	NW_004517452.1	Scaffold2528	19335	CC	GG	1947035987
SNP_P4_175996_19411	NW_004517452.1	Scaffold2528	19411	TT	CC	1947035989
SNP_P4_175997_19462	NW_004517452.1	Scaffold2528	19462	GG	AA	1947035991
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SNP_P4_176001_19644	NW_004517452.1	Scaffold2528	19644	AA	TT	1947035997
SNP_P4_176002_19679	NW_004517452.1	Scaffold2528	19679	AA	TT	1947035999
SNP_P4_176003_19710	NW_004517452.1	Scaffold2528	19710	AA	CC	1947036001
SNP_P4_176004_19711	NW_004517452.1	Scaffold2528	19711	TT	AA	1947036003
SNP_P4_176005_19898	NW_004517452.1	Scaffold2528	19898	AA	GG	1947036005
SNP_P4_176006_19903	NW_004517452.1	Scaffold2528	19903	GG	AA	1947036007
SNP_P4_176007_19932	NW_004517452.1	Scaffold2528	19932	TT	GG	1947036010
SNP_P4_176008_19946	NW_004517452.1	Scaffold2528	19946	GG	TT	1947036012
SNP_P4_176009_25409	NW_004517456.1	Scaffold2534	25409	AA	GG	1947036014
SNP_P4_176010_25554	NW_004517456.1	Scaffold2534	25554	CC	TT	1947036016
SNP_P4_176011_27620	NW_004517456.1	Scaffold2534	27620	CC	TT	1947036018

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_176013_27725	NW_004517456.1	Scaffold2534	27725	CC	TT	1947036022
SNP_P4_176014_27945	NW_004517456.1	Scaffold2534	27945	AA	CC	1947036024
SNP_P4_176015_27983	NW_004517456.1	Scaffold2534	27983	TT	AA	1947036026
SNP_P4_176016_27999	NW_004517456.1	Scaffold2534	27999	AA	TT	1947036028
SNP_P4_176017_28008	NW_004517456.1	Scaffold2534	28008	TT	CC	1947036030
SNP_P4_176018_28104	NW_004517456.1	Scaffold2534	28104	TT	CC	1947036032
SNP_P4_176019_28147	NW_004517456.1	Scaffold2534	28147	CC	GG	1947036034
SNP_P4_176020_28150	NW_004517456.1	Scaffold2534	28150	AA	GG	1947036036
SNP_P4_176021_28188	NW_004517456.1	Scaffold2534	28188	TT	CC	1947036038
SNP_P4_176022_39014	NW_004517456.1	Scaffold2534	39014	TT	GG	1947036040
SNP_P4_176023_39017	NW_004517456.1	Scaffold2534	39017	AA	CC	1947036042
SNP_P4_176024_46163	NW_004517456.1	Scaffold2534	46163	CC	TT	1947036044
SNP_P4_176025_46192	NW_004517456.1	Scaffold2534	46192	CC	TT	1947036046
SNP_P4_176026_46202	NW_004517456.1	Scaffold2534	46202	AA	GG	1947036048
SNP_P4_176027_46228	NW_004517456.1	Scaffold2534	46228	TT	CC	1947036050
SNP_P4_176028_46245	NW_004517456.1	Scaffold2534	46245	AA	TT	1947036052
SNP_P4_176029_46319	NW_004517456.1	Scaffold2534	46319	CC	AA	1947036054
SNP_P4_176030_46442	NW_004517456.1	Scaffold2534	46442	AA	GG	1947036056
SNP_P4_176031_62971	NW_004517456.1	Scaffold2534	62971	TT	AA	1947036058
SNP_P4_176032_63511	NW_004517456.1	Scaffold2534	63511	CC	TT	1947036060
SNP_P4_176033_427	NW_004517457.1	Scaffold2535	427	GG	TT	1947036062
SNP_P4_176035_19714	NW_004517457.1	Scaffold2535	19714	AA	TT	1947036064
SNP_P4_176036_19757	NW_004517457.1	Scaffold2535	19757	TT	AA	1947036066
SNP_P4_176037_19900	NW_004517457.1	Scaffold2535	19900	TT	CC	1947036068
SNP_P4_176038_20028	NW_004517457.1	Scaffold2535	20028	AA	GG	1947036070
SNP_P4_176040_27874	NW_004517457.1	Scaffold2535	27874	AA	CC	1947036072
SNP_P4_176041_27903	NW_004517457.1	Scaffold2535	27903	CC	AA	1947036074
SNP_P4_176042_27929	NW_004517457.1	Scaffold2535	27929	GG	AA	1947036076
SNP_P4_176043_27942	NW_004517457.1	Scaffold2535	27942	TT	GG	1947036078
SNP_P4_176044_27971	NW_004517457.1	Scaffold2535	27971	CC	TT	1947036081
SNP_P4_176045_30176	NW_004517457.1	Scaffold2535	30176	AA	CC	1947036083
SNP_P4_176046_30187	NW_004517457.1	Scaffold2535	30187	CC	TT	1947036085
SNP_P4_176047_30543	NW_004517457.1	Scaffold2535	30543	AA	GG	1947036087
SNP_P4_176048_30648	NW_004517457.1	Scaffold2535	30648	TT	CC	1947036089
SNP_P4_176049_30760	NW_004517457.1	Scaffold2535	30760	AA	GG	1947036091
SNP_P4_176050_66	NW_004517459.1	Scaffold2537	66	AA	GG	1947036093
SNP_P4_176051_2620	NW_004517460.1	Scaffold2539	2620	AA	GG	1947036095
SNP_P4_176052_5318	NW_004517460.1	Scaffold2539	5318	AA	TT	1947036097
SNP_P4_176053_1921	NW_004517461.1	Scaffold2542	1921	TT	CC	1947036099
SNP_P4_176054_1949	NW_004517461.1	Scaffold2542	1949	GG	AA	1947036101
SNP_P4_176055_1993	NW_004517461.1	Scaffold2542	1993	AA	GG	1947036103

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_176058_2318	NW_004517461.1	Scaffold2542	2318	TT	AA	1947036107
SNP_P4_176059_2400	NW_004517461.1	Scaffold2542	2400	CC	AA	1947036109
SNP_P4_176060_2489	NW_004517461.1	Scaffold2542	2489	GG	AA	1947036111
SNP_P4_176062_2531	NW_004517461.1	Scaffold2542	2531	GG	TT	1947036113
SNP_P4_176063_2537	NW_004517461.1	Scaffold2542	2537	GG	AA	1947036115
SNP_P4_176064_2686	NW_004517461.1	Scaffold2542	2686	GG	AA	1947036117
SNP_P4_176065_4102	NW_004517461.1	Scaffold2542	4102	GG	TT	1947036119
SNP_P4_176066_11389	NW_004517461.1	Scaffold2542	11389	AA	GG	1947036121
SNP_P4_176067_20860	NW_004517461.1	Scaffold2542	20860	AA	GG	1947036123
SNP_P4_176068_20877	NW_004517461.1	Scaffold2542	20877	TT	AA	1947036125
SNP_P4_176069_22676	NW_004517461.1	Scaffold2542	22676	TT	AA	1947036127
SNP_P4_176070_24155	NW_004517461.1	Scaffold2542	24155	AA	GG	1947036129
SNP_P4_176071_24522	NW_004517461.1	Scaffold2542	24522	AA	GG	1947036131
SNP_P4_176072_26151	NW_004517461.1	Scaffold2542	26151	TT	CC	1947036133
SNP_P4_176073_26189	NW_004517461.1	Scaffold2542	26189	GG	AA	1947036135
SNP_P4_176074_26434	NW_004517461.1	Scaffold2542	26434	CC	TT	1947036137
SNP_P4_176075_1438	NW_004517464.1	Scaffold2547	1438	TT	CC	1947036139
SNP_P4_176076_1443	NW_004517464.1	Scaffold2547	1443	CC	TT	1947036141
SNP_P4_176077_3407	NW_004517464.1	Scaffold2547	3407	AA	GG	1947036143
SNP_P4_176078_3703	NW_004517464.1	Scaffold2547	3703	GG	CC	1947036145
SNP_P4_176079_3738	NW_004517464.1	Scaffold2547	3738	GG	CC	1947036147
SNP_P4_176080_720	NW_004517465.1	Scaffold2548	720	CC	GG	1947036149
SNP_P4_176081_752	NW_004517465.1	Scaffold2548	752	TT	GG	1947036151
SNP_P4_176082_760	NW_004517465.1	Scaffold2548	760	TT	CC	1947036153
SNP_P4_176083_766	NW_004517465.1	Scaffold2548	766	TT	CC	1947036155
SNP_P4_176084_780	NW_004517465.1	Scaffold2548	780	TT	AA	1947036157
SNP_P4_176085_875	NW_004517465.1	Scaffold2548	875	CC	TT	1947036159
SNP_P4_176086_883	NW_004517465.1	Scaffold2548	883	AA	TT	1947036161
SNP_P4_176087_885	NW_004517465.1	Scaffold2548	885	TT	GG	1947036163
SNP_P4_176088_886	NW_004517465.1	Scaffold2548	886	AA	GG	1947036165
SNP_P4_176089_905	NW_004517465.1	Scaffold2548	905	AA	GG	1947036167
SNP_P4_176091_1063	NW_004517465.1	Scaffold2548	1063	AA	TT	1947036169
SNP_P4_176092_1172	NW_004517465.1	Scaffold2548	1172	GG	TT	1947036171
SNP_P4_176093_1349	NW_004517465.1	Scaffold2548	1349	CC	TT	1947036173
SNP_P4_176094_1357	NW_004517465.1	Scaffold2548	1357	AA	TT	1947036175
SNP_P4_176095_1396	NW_004517465.1	Scaffold2548	1396	GG	AA	1947036177
SNP_P4_176096_1401	NW_004517465.1	Scaffold2548	1401	TT	AA	1947036179
SNP_P4_176097_1402	NW_004517465.1	Scaffold2548	1402	GG	TT	1947036181
SNP_P4_176098_1431	NW_004517465.1	Scaffold2548	1431	TT	AA	1947036182
SNP_P4_176099_1434	NW_004517465.1	Scaffold2548	1434	TT	CC	1947036183
SNP_P4_176100_1442	NW_004517465.1	Scaffold2548	1442	AA	TT	1947036184

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_176105_2526	NW_004517465.1	Scaffold2548	2526	TT	CC	1947036189
SNP_P4_176107_2550	NW_004517465.1	Scaffold2548	2550	CC	TT	1947036190
SNP_P4_176108_64	NW_004517466.1	Scaffold2552	64	CC	TT	1947036191
SNP_P4_176109_3435	NW_004517468.1	Scaffold2555	3435	CC	AA	1947036192
SNP_P4_176110_3436	NW_004517468.1	Scaffold2555	3436	AA	GG	1947036193
SNP_P4_176111_3437	NW_004517468.1	Scaffold2555	3437	AA	GG	1947036194
SNP_P4_176112_3462	NW_004517468.1	Scaffold2555	3462	CC	AA	1947036195
SNP_P4_176113_3477	NW_004517468.1	Scaffold2555	3477	TT	GG	1947036196
SNP_P4_176114_3510	NW_004517468.1	Scaffold2555	3510	AA	TT	1947036197
SNP_P4_176115_3521	NW_004517468.1	Scaffold2555	3521	TT	AA	1947036198
SNP_P4_176116_6226	NW_004517468.1	Scaffold2555	6226	TT	AA	1947036199
SNP_P4_176117_6711	NW_004517468.1	Scaffold2555	6711	GG	TT	1947036200
SNP_P4_176118_16157	NW_004517468.1	Scaffold2555	16157	CC	TT	1947036201
SNP_P4_176119_16239	NW_004517468.1	Scaffold2555	16239	TT	AA	1947036202
SNP_P4_176120_16551	NW_004517468.1	Scaffold2555	16551	GG	CC	1947036203
SNP_P4_176122_18818	NW_004517468.1	Scaffold2555	18818	TT	CC	1947036204
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SNP_P4_176132_21902	NW_004517468.1	Scaffold2555	21902	CC	AA	1947036214
SNP_P4_176133_22005	NW_004517468.1	Scaffold2555	22005	GG	TT	1947036215
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SNP_P4_176136_30439	NW_004517468.1	Scaffold2555	30439	AA	GG	1947036218
SNP_P4_176137_43828	NW_004517468.1	Scaffold2555	43828	TT	AA	1947036219
SNP_P4_176138_43841	NW_004517468.1	Scaffold2555	43841	AA	GG	1947036220
SNP_P4_176139_43851	NW_004517468.1	Scaffold2555	43851	AA	GG	1947036221
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SNP_P4_176142_44378	NW_004517468.1	Scaffold2555	44378	CC	AA	1947036224
SNP_P4_176143_48457	NW_004517468.1	Scaffold2555	48457	AA	GG	1947036225
SNP_P4_176144_48463	NW_004517468.1	Scaffold2555	48463	CC	TT	1947036226

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_176146_48467	NW_004517468.1	Scaffold2555	48467	CC	AA	1947036228
SNP_P4_176147_48485	NW_004517468.1	Scaffold2555	48485	TT	AA	1947036229
SNP_P4_176148_55557	NW_004517468.1	Scaffold2555	55557	TT	AA	1947036230
SNP_P4_176149_55576	NW_004517468.1	Scaffold2555	55576	GG	AA	1947036231
SNP_P4_176150_55583	NW_004517468.1	Scaffold2555	55583	CC	AA	1947036232
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SNP_P4_176153_55589	NW_004517468.1	Scaffold2555	55589	TT	AA	1947036235
SNP_P4_176154_1006	NW_004517469.1	Scaffold2556	1006	TT	AA	1947036236
SNP_P4_176155_2238	NW_004517470.1	Scaffold2557	2238	GG	AA	1947036237
SNP_P4_176156_2252	NW_004517470.1	Scaffold2557	2252	CC	TT	1947036238
SNP_P4_176157_2286	NW_004517470.1	Scaffold2557	2286	TT	AA	1947036239
SNP_P4_176159_9130	NW_004517470.1	Scaffold2557	9130	AA	CC	1947036240
SNP_P4_176160_9152	NW_004517470.1	Scaffold2557	9152	AA	GG	1947036241
SNP_P4_176161_12348	NW_004517470.1	Scaffold2557	12348	AA	GG	1947036242
SNP_P4_176162_12430	NW_004517470.1	Scaffold2557	12430	AA	TT	1947036243
SNP_P4_176163_12482	NW_004517470.1	Scaffold2557	12482	CC	TT	1947036244
SNP_P4_176164_12797	NW_004517470.1	Scaffold2557	12797	AA	CC	1947036245
SNP_P4_176165_14726	NW_004517470.1	Scaffold2557	14726	TT	AA	1947036246
SNP_P4_176166_14998	NW_004517470.1	Scaffold2557	14998	TT	CC	1947036247
SNP_P4_176167_27299	NW_004517470.1	Scaffold2557	27299	AA	CC	1947036248
SNP_P4_176168_47643	NW_004517470.1	Scaffold2557	47643	TT	GG	1947036249
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SNP_P4_176170_47682	NW_004517470.1	Scaffold2557	47682	CC	AA	1947036251
SNP_P4_176171_47752	NW_004517470.1	Scaffold2557	47752	AA	TT	1947036252
SNP_P4_176173_49995	NW_004517470.1	Scaffold2557	49995	AA	GG	1947036253
SNP_P4_176174_50037	NW_004517470.1	Scaffold2557	50037	AA	CC	1947036254
SNP_P4_176175_50047	NW_004517470.1	Scaffold2557	50047	AA	GG	1947036255
SNP_P4_176176_50060	NW_004517470.1	Scaffold2557	50060	GG	AA	1947036256
SNP_P4_176177_50074	NW_004517470.1	Scaffold2557	50074	AA	GG	1947036257
SNP_P4_176178_50086	NW_004517470.1	Scaffold2557	50086	TT	CC	1947036258
SNP_P4_176179_50305	NW_004517470.1	Scaffold2557	50305	AA	TT	1947036259
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SNP_P4_176185_56380	NW_004517470.1	Scaffold2557	56380	AA	CC	1947036264
SNP_P4_176186_56406	NW_004517470.1	Scaffold2557	56406	CC	TT	1947036265
SNP_P4_176187_56561	NW_004517470.1	Scaffold2557	56561	TT	CC	1947036266
SNP_P4_176188_56602	NW_004517470.1	Scaffold2557	56602	CC	TT	1947036267
SNP_P4_176189_56629	NW_004517470.1	Scaffold2557	56629	TT	CC	1947036268

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_176192_56728	NW_004517470.1	Scaffold2557	56728	AA	GG	1947036271
SNP_P4_176193_56802	NW_004517470.1	Scaffold2557	56802	CC	TT	1947036272
SNP_P4_176194_57375	NW_004517470.1	Scaffold2557	57375	CC	TT	1947036273
SNP_P4_176196_57671	NW_004517470.1	Scaffold2557	57671	CC	AA	1947036274
SNP_P4_176197_61484	NW_004517470.1	Scaffold2557	61484	CC	TT	1947036275
SNP_P4_176198_61494	NW_004517470.1	Scaffold2557	61494	CC	AA	1947036276
SNP_P4_176199_61504	NW_004517470.1	Scaffold2557	61504	TT	AA	1947036277
SNP_P4_176200_61506	NW_004517470.1	Scaffold2557	61506	TT	CC	1947036278
SNP_P4_176201_61569	NW_004517470.1	Scaffold2557	61569	TT	CC	1947036279
SNP_P4_176202_61570	NW_004517470.1	Scaffold2557	61570	GG	AA	1947036280
SNP_P4_176203_61585	NW_004517470.1	Scaffold2557	61585	AA	GG	1947036281
SNP_P4_176204_61612	NW_004517470.1	Scaffold2557	61612	TT	GG	1947036282
SNP_P4_176205_61632	NW_004517470.1	Scaffold2557	61632	CC	TT	1947036283
SNP_P4_176206_61833	NW_004517470.1	Scaffold2557	61833	CC	GG	1947036284
SNP_P4_176207_61882	NW_004517470.1	Scaffold2557	61882	TT	CC	1947036285
SNP_P4_176209_62557	NW_004517470.1	Scaffold2557	62557	AA	GG	1947036286
SNP_P4_176210_62573	NW_004517470.1	Scaffold2557	62573	AA	GG	1947036287
SNP_P4_176211_62887	NW_004517470.1	Scaffold2557	62887	TT	CC	1947036288
SNP_P4_176212_62962	NW_004517470.1	Scaffold2557	62962	TT	GG	1947036289
SNP_P4_176213_64560	NW_004517470.1	Scaffold2557	64560	TT	AA	1947036290
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SNP_P4_176217_86311	NW_004517470.1	Scaffold2557	86311	AA	GG	1947036293
SNP_P4_176218_86328	NW_004517470.1	Scaffold2557	86328	AA	CC	1947036294
SNP_P4_176219_86363	NW_004517470.1	Scaffold2557	86363	AA	CC	1947036295
SNP_P4_176220_86373	NW_004517470.1	Scaffold2557	86373	CC	TT	1947036296
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SNP_P4_176223_137385	NW_004517470.1	Scaffold2557	137385	AA	GG	1947036299
SNP_P4_176224_163574	NW_004517470.1	Scaffold2557	163574	TT	CC	1947036300
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SNP_P4_176226_172010	NW_004517470.1	Scaffold2557	172010	AA	GG	1947036302
SNP_P4_176227_172061	NW_004517470.1	Scaffold2557	172061	AA	GG	1947036303
SNP_P4_176228_172079	NW_004517470.1	Scaffold2557	172079	CC	TT	1947036304
SNP_P4_176229_172086	NW_004517470.1	Scaffold2557	172086	AA	GG	1947036305
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SNP_P4_176231_4157	NW_004517471.1	Scaffold2558	4157	TT	AA	1947036307
SNP_P4_176232_4167	NW_004517471.1	Scaffold2558	4167	TT	CC	1947036308
SNP_P4_176233_5334	NW_004517471.1	Scaffold2558	5334	GG	TT	1947036309
SNP_P4_176234_5344	NW_004517471.1	Scaffold2558	5344	AA	GG	1947036310

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_176237_10169	NW_004517473.1	Scaffold2560	10169	CC	TT	1947036313
SNP_P4_176238_19838	NW_004517473.1	Scaffold2560	19838	TT	CC	1947036314
SNP_P4_176239_19867	NW_004517473.1	Scaffold2560	19867	TT	CC	1947036315
SNP_P4_176240_24734	NW_004517473.1	Scaffold2560	24734	CC	TT	1947036316
SNP_P4_176242_40690	NW_004517473.1	Scaffold2560	40690	CC	TT	1947036317
SNP_P4_176244_60091	NW_004517473.1	Scaffold2560	60091	GG	AA	1947036318
SNP_P4_176245_60165	NW_004517473.1	Scaffold2560	60165	CC	TT	1947036319
SNP_P4_176246_60585	NW_004517473.1	Scaffold2560	60585	AA	GG	1947036320
SNP_P4_176248_60728	NW_004517473.1	Scaffold2560	60728	GG	TT	1947036321
SNP_P4_176249_61151	NW_004517473.1	Scaffold2560	61151	AA	CC	1947036322
SNP_P4_176251_61259	NW_004517473.1	Scaffold2560	61259	AA	GG	1947036323
SNP_P4_176252_61291	NW_004517473.1	Scaffold2560	61291	TT	GG	1947036324
SNP_P4_176253_61606	NW_004517473.1	Scaffold2560	61606	TT	CC	1947036325
SNP_P4_176254_61608	NW_004517473.1	Scaffold2560	61608	AA	GG	1947036326
SNP_P4_176255_61703	NW_004517473.1	Scaffold2560	61703	CC	AA	1947036327
SNP_P4_176257_61776	NW_004517473.1	Scaffold2560	61776	AA	TT	1947036328
SNP_P4_176258_61788	NW_004517473.1	Scaffold2560	61788	AA	GG	1947036329
SNP_P4_176259_61806	NW_004517473.1	Scaffold2560	61806	CC	TT	1947036330
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SNP_P4_176261_62020	NW_004517473.1	Scaffold2560	62020	AA	TT	1947036332
SNP_P4_176262_62075	NW_004517473.1	Scaffold2560	62075	AA	GG	1947036333
SNP_P4_176263_62329	NW_004517473.1	Scaffold2560	62329	GG	CC	1947036334
SNP_P4_176264_62535	NW_004517473.1	Scaffold2560	62535	GG	AA	1947036335
SNP_P4_176266_63522	NW_004517473.1	Scaffold2560	63522	AA	CC	1947036336
SNP_P4_176267_2589	NW_004517476.1	Scaffold2564	2589	CC	AA	1947036337
SNP_P4_176268_11211	NW_004517476.1	Scaffold2564	11211	TT	CC	1947036338
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SNP_P4_176270_13123	NW_004517476.1	Scaffold2564	13123	TT	CC	1947036340
SNP_P4_176271_13502	NW_004517476.1	Scaffold2564	13502	GG	AA	1947036341
SNP_P4_176272_13555	NW_004517476.1	Scaffold2564	13555	AA	GG	1947036342
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SNP_P4_176277_28701	NW_004517476.1	Scaffold2564	28701	GG	AA	1947036347
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SNP_P4_176279_29316	NW_004517476.1	Scaffold2564	29316	GG	TT	1947036349
SNP_P4_176280_29425	NW_004517476.1	Scaffold2564	29425	CC	TT	1947036350
SNP_P4_176281_29440	NW_004517476.1	Scaffold2564	29440	CC	TT	1947036351
SNP_P4_176282_411	NW_004517479.1	Scaffold2568	411	AA	CC	1947036352

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_176285_522	NW_004517479.1	Scaffold2568	522	GG	CC	1947036355
SNP_P4_176286_758	NW_004517479.1	Scaffold2568	758	AA	GG	1947036356
SNP_P4_176287_804	NW_004517479.1	Scaffold2568	804	CC	TT	1947036357
SNP_P4_176288_22063	NW_004517480.1	Scaffold2569	22063	CC	GG	1947036358
SNP_P4_176289_22143	NW_004517480.1	Scaffold2569	22143	GG	AA	1947036359
SNP_P4_176290_22250	NW_004517480.1	Scaffold2569	22250	AA	TT	1947036360
SNP_P4_176291_22283	NW_004517480.1	Scaffold2569	22283	AA	CC	1947036361
SNP_P4_176292_22419	NW_004517480.1	Scaffold2569	22419	TT	CC	1947036362
SNP_P4_176293_22438	NW_004517480.1	Scaffold2569	22438	AA	CC	1947036363
SNP_P4_176294_22536	NW_004517480.1	Scaffold2569	22536	TT	CC	1947036364
SNP_P4_176295_22556	NW_004517480.1	Scaffold2569	22556	AA	GG	1947036365
SNP_P4_176296_22559	NW_004517480.1	Scaffold2569	22559	TT	AA	1947036366
SNP_P4_176297_23276	NW_004517480.1	Scaffold2569	23276	TT	AA	1947036367
SNP_P4_176298_23279	NW_004517480.1	Scaffold2569	23279	AA	GG	1947036368
SNP_P4_176299_23299	NW_004517480.1	Scaffold2569	23299	GG	AA	1947036369
SNP_P4_176300_36984	NW_004517480.1	Scaffold2569	36984	CC	TT	1947036370
SNP_P4_176301_46561	NW_004517480.1	Scaffold2569	46561	TT	CC	1947036371
SNP_P4_176302_46947	NW_004517480.1	Scaffold2569	46947	GG	AA	1947036372
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SNP_P4_176305_98555	NW_004517480.1	Scaffold2569	98555	CC	TT	1947036374
SNP_P4_176306_106824	NW_004517480.1	Scaffold2569	106824	GG	AA	1947036375
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SNP_P4_176308_106864	NW_004517480.1	Scaffold2569	106864	TT	GG	1947036377
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SNP_P4_176310_106975	NW_004517480.1	Scaffold2569	106975	CC	GG	1947036379
SNP_P4_176311_504	NW_004517482.1	Scaffold2571	504	GG	TT	1947036380
SNP_P4_176312_506	NW_004517482.1	Scaffold2571	506	TT	GG	1947036381
SNP_P4_176313_959	NW_004517482.1	Scaffold2571	959	TT	AA	1947036382
SNP_P4_176314_4839	NW_004517485.1	Scaffold2574	4839	TT	GG	1947036383
SNP_P4_176315_5042	NW_004517485.1	Scaffold2574	5042	TT	CC	1947036384
SNP_P4_176316_5414	NW_004517485.1	Scaffold2574	5414	CC	TT	1947036385
SNP_P4_176317_15397	NW_004517485.1	Scaffold2574	15397	GG	CC	1947036386
SNP_P4_176318_21902	NW_004517485.1	Scaffold2574	21902	TT	GG	1947036387
SNP_P4_176319_46012	NW_004517485.1	Scaffold2574	46012	AA	TT	1947036388
SNP_P4_176320_46045	NW_004517485.1	Scaffold2574	46045	TT	CC	1947036389
SNP_P4_176321_46080	NW_004517485.1	Scaffold2574	46080	AA	TT	1947036390
SNP_P4_176322_46266	NW_004517485.1	Scaffold2574	46266	TT	AA	1947036391
SNP_P4_176323_46333	NW_004517485.1	Scaffold2574	46333	CC	TT	1947036392
SNP_P4_176324_51068	NW_004517485.1	Scaffold2574	51068	TT	CC	1947036393
SNP_P4_176325_51101	NW_004517485.1	Scaffold2574	51101	AA	GG	1947036394

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_176328_51473	NW_004517485.1	Scaffold2574	51473	TT	AA	1947036397
SNP_P4_176329_51474	NW_004517485.1	Scaffold2574	51474	TT	AA	1947036398
SNP_P4_176330_66623	NW_004517486.1	Scaffold2575	66623	CC	TT	1947036399
SNP_P4_176331_80439	NW_004517486.1	Scaffold2575	80439	GG	AA	1947036400
SNP_P4_176332_106869	NW_004517486.1	Scaffold2575	106869	GG	CC	1947036401
SNP_P4_176333_114526	NW_004517486.1	Scaffold2575	114526	AA	TT	1947036402
SNP_P4_176334_114530	NW_004517486.1	Scaffold2575	114530	AA	CC	1947036403
SNP_P4_176336_125192	NW_004517486.1	Scaffold2575	125192	AA	TT	1947036404
SNP_P4_176337_130896	NW_004517486.1	Scaffold2575	130896	TT	CC	1947036405
SNP_P4_176338_131882	NW_004517486.1	Scaffold2575	131882	CC	GG	1947036406
SNP_P4_176339_134804	NW_004517486.1	Scaffold2575	134804	CC	TT	1947036407
SNP_P4_176340_134810	NW_004517486.1	Scaffold2575	134810	CC	AA	1947036408
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SNP_P4_176355_195914	NW_004517486.1	Scaffold2575	195914	TT	CC	1947036421
SNP_P4_176356_195944	NW_004517486.1	Scaffold2575	195944	TT	GG	1947036422
SNP_P4_176357_195961	NW_004517486.1	Scaffold2575	195961	CC	TT	1947036423
SNP_P4_176358_195973	NW_004517486.1	Scaffold2575	195973	CC	TT	1947036424
SNP_P4_176359_196077	NW_004517486.1	Scaffold2575	196077	GG	AA	1947036426
SNP_P4_176360_196111	NW_004517486.1	Scaffold2575	196111	CC	TT	1947036428
SNP_P4_176362_196160	NW_004517486.1	Scaffold2575	196160	AA	GG	1947036430
SNP_P4_176363_196169	NW_004517486.1	Scaffold2575	196169	AA	GG	1947036432
SNP_P4_176364_196188	NW_004517486.1	Scaffold2575	196188	TT	CC	1947036434
SNP_P4_176365_196215	NW_004517486.1	Scaffold2575	196215	CC	TT	1947036436
SNP_P4_176366_197208	NW_004517486.1	Scaffold2575	197208	CC	TT	1947036438
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SNP_P4_176368_197630	NW_004517486.1	Scaffold2575	197630	CC	GG	1947036443
SNP_P4_176369_197644	NW_004517486.1	Scaffold2575	197644	TT	CC	1947036445
SNP_P4_176370_197676	NW_004517486.1	Scaffold2575	197676	CC	AA	1947036447
SNP_P4_176372_203551	NW_004517486.1	Scaffold2575	203551	AA	TT	1947036449

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_176374_208539	NW_004517486.1	Scaffold2575	208539	AA	GG	1947036453
SNP_P4_176375_208550	NW_004517486.1	Scaffold2575	208550	GG	TT	1947036455
SNP_P4_176376_208594	NW_004517486.1	Scaffold2575	208594	AA	GG	1947036457
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SNP_P4_176379_208726	NW_004517486.1	Scaffold2575	208726	AA	GG	1947036461
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SNP_P4_176382_208865	NW_004517486.1	Scaffold2575	208865	CC	TT	1947036467
SNP_P4_176383_208941	NW_004517486.1	Scaffold2575	208941	TT	GG	1947036469
SNP_P4_176384_219843	NW_004517486.1	Scaffold2575	219843	AA	GG	1947036471
SNP_P4_176385_224768	NW_004517486.1	Scaffold2575	224768	CC	AA	1947036473
SNP_P4_176386_231200	NW_004517486.1	Scaffold2575	231200	CC	AA	1947036475
SNP_P4_176387_231208	NW_004517486.1	Scaffold2575	231208	TT	CC	1947036477
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SNP_P4_176389_231219	NW_004517486.1	Scaffold2575	231219	TT	GG	1947036481
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SNP_P4_176392_247352	NW_004517486.1	Scaffold2575	247352	GG	AA	1947036485
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SNP_P4_176395_248637	NW_004517486.1	Scaffold2575	248637	CC	TT	1947036489
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SNP_P4_176402_271273	NW_004517486.1	Scaffold2575	271273	AA	GG	1947036501
SNP_P4_176403_271276	NW_004517486.1	Scaffold2575	271276	TT	CC	1947036503
SNP_P4_176404_271288	NW_004517486.1	Scaffold2575	271288	TT	CC	1947036505
SNP_P4_176405_271339	NW_004517486.1	Scaffold2575	271339	CC	AA	1947036507
SNP_P4_176406_271390	NW_004517486.1	Scaffold2575	271390	TT	GG	1947036509
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SNP_P4_176413_274170	NW_004517486.1	Scaffold2575	274170	AA	GG	1947036523
SNP_P4_176414_274230	NW_004517486.1	Scaffold2575	274230	AA	GG	1947036525
SNP_P4_176415_274249	NW_004517486.1	Scaffold2575	274249	AA	GG	1947036527
SNP_P4_176416_278224	NW_004517486.1	Scaffold2575	278224	AA	GG	1947036529
SNP_P4_176417_278227	NW_004517486.1	Scaffold2575	278227	AA	GG	1947036531
SNP_P4_176418_278248	NW_004517486.1	Scaffold2575	278248	AA	CC	1947036533

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_176421_278288	NW_004517486.1	Scaffold2575	278288	GG	CC	1947036539
SNP_P4_176422_278436	NW_004517486.1	Scaffold2575	278436	CC	TT	1947036541
SNP_P4_176423_278441	NW_004517486.1	Scaffold2575	278441	TT	CC	1947036543
SNP_P4_176424_278455	NW_004517486.1	Scaffold2575	278455	AA	GG	1947036545
SNP_P4_176425_278496	NW_004517486.1	Scaffold2575	278496	AA	TT	1947036547
SNP_P4_176426_278503	NW_004517486.1	Scaffold2575	278503	CC	TT	1947036549
SNP_P4_176427_278551	NW_004517486.1	Scaffold2575	278551	CC	AA	1947036551
SNP_P4_176428_278561	NW_004517486.1	Scaffold2575	278561	TT	CC	1947036553
SNP_P4_176429_278565	NW_004517486.1	Scaffold2575	278565	CC	AA	1947036555
SNP_P4_176430_278590	NW_004517486.1	Scaffold2575	278590	AA	TT	1947036557
SNP_P4_176431_278605	NW_004517486.1	Scaffold2575	278605	GG	AA	1947036559
SNP_P4_176432_278673	NW_004517486.1	Scaffold2575	278673	AA	TT	1947036561
SNP_P4_176433_278685	NW_004517486.1	Scaffold2575	278685	TT	AA	1947036563
SNP_P4_176434_278725	NW_004517486.1	Scaffold2575	278725	TT	AA	1947036565
SNP_P4_176436_278783	NW_004517486.1	Scaffold2575	278783	TT	CC	1947036566
SNP_P4_176437_278787	NW_004517486.1	Scaffold2575	278787	AA	CC	1947036568
SNP_P4_176438_278827	NW_004517486.1	Scaffold2575	278827	CC	TT	1947036570
SNP_P4_176439_278869	NW_004517486.1	Scaffold2575	278869	TT	CC	1947036572
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SNP_P4_176441_278945	NW_004517486.1	Scaffold2575	278945	AA	TT	1947036576
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SNP_P4_176443_278966	NW_004517486.1	Scaffold2575	278966	GG	AA	1947036580
SNP_P4_176444_279026	NW_004517486.1	Scaffold2575	279026	CC	AA	1947036582
SNP_P4_176445_279029	NW_004517486.1	Scaffold2575	279029	GG	TT	1947036584
SNP_P4_176446_279043	NW_004517486.1	Scaffold2575	279043	GG	AA	1947036586
SNP_P4_176447_279110	NW_004517486.1	Scaffold2575	279110	CC	TT	1947036588
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SNP_P4_176449_279153	NW_004517486.1	Scaffold2575	279153	GG	TT	1947036592
SNP_P4_176450_279162	NW_004517486.1	Scaffold2575	279162	GG	AA	1947036594
SNP_P4_176452_279191	NW_004517486.1	Scaffold2575	279191	CC	TT	1947036596
SNP_P4_176453_279240	NW_004517486.1	Scaffold2575	279240	CC	AA	1947036598
SNP_P4_176454_279281	NW_004517486.1	Scaffold2575	279281	AA	GG	1947036599
SNP_P4_176456_279374	NW_004517486.1	Scaffold2575	279374	TT	GG	1947036600
SNP_P4_176457_279381	NW_004517486.1	Scaffold2575	279381	GG	AA	1947036601
SNP_P4_176458_279388	NW_004517486.1	Scaffold2575	279388	AA	GG	1947036602
SNP_P4_176459_279409	NW_004517486.1	Scaffold2575	279409	GG	AA	1947036603
SNP_P4_176460_279483	NW_004517486.1	Scaffold2575	279483	GG	CC	1947036604
SNP_P4_176461_279547	NW_004517486.1	Scaffold2575	279547	GG	AA	1947036605
SNP_P4_176462_279573	NW_004517486.1	Scaffold2575	279573	AA	CC	1947036606
SNP_P4_176463_279633	NW_004517486.1	Scaffold2575	279633	AA	TT	1947036607

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_176465_279731	NW_004517486.1	Scaffold2575	279731	AA	CC	1947036609
SNP_P4_176466_279836	NW_004517486.1	Scaffold2575	279836	TT	AA	1947036610
SNP_P4_176467_280037	NW_004517486.1	Scaffold2575	280037	TT	GG	1947036611
SNP_P4_176469_280089	NW_004517486.1	Scaffold2575	280089	CC	TT	1947036612
SNP_P4_176470_280120	NW_004517486.1	Scaffold2575	280120	CC	TT	1947036613
SNP_P4_176471_280143	NW_004517486.1	Scaffold2575	280143	TT	CC	1947036614
SNP_P4_176472_280165	NW_004517486.1	Scaffold2575	280165	TT	CC	1947036615
SNP_P4_176473_280166	NW_004517486.1	Scaffold2575	280166	TT	CC	1947036616
SNP_P4_176474_280167	NW_004517486.1	Scaffold2575	280167	GG	AA	1947036617
SNP_P4_176475_280221	NW_004517486.1	Scaffold2575	280221	GG	CC	1947036618
SNP_P4_176476_280224	NW_004517486.1	Scaffold2575	280224	TT	CC	1947036619
SNP_P4_176477_280284	NW_004517486.1	Scaffold2575	280284	CC	TT	1947036621
SNP_P4_176478_280317	NW_004517486.1	Scaffold2575	280317	TT	CC	1947036623
SNP_P4_176479_280358	NW_004517486.1	Scaffold2575	280358	AA	CC	1947036625
SNP_P4_176480_280413	NW_004517486.1	Scaffold2575	280413	TT	CC	1947036627
SNP_P4_176481_280425	NW_004517486.1	Scaffold2575	280425	CC	AA	1947036629
SNP_P4_176482_280432	NW_004517486.1	Scaffold2575	280432	CC	TT	1947036631
SNP_P4_176483_280467	NW_004517486.1	Scaffold2575	280467	GG	AA	1947036633
SNP_P4_176484_280562	NW_004517486.1	Scaffold2575	280562	CC	GG	1947036635
SNP_P4_176485_280587	NW_004517486.1	Scaffold2575	280587	CC	TT	1947036637
SNP_P4_176486_280626	NW_004517486.1	Scaffold2575	280626	GG	AA	1947036639
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SNP_P4_176488_280646	NW_004517486.1	Scaffold2575	280646	AA	TT	1947036643
SNP_P4_176489_280725	NW_004517486.1	Scaffold2575	280725	GG	AA	1947036645
SNP_P4_176490_280810	NW_004517486.1	Scaffold2575	280810	GG	CC	1947036647
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SNP_P4_176493_281679	NW_004517486.1	Scaffold2575	281679	GG	AA	1947036653
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SNP_P4_176495_281699	NW_004517486.1	Scaffold2575	281699	CC	TT	1947036657
SNP_P4_176496_281708	NW_004517486.1	Scaffold2575	281708	CC	TT	1947036659
SNP_P4_176497_281978	NW_004517486.1	Scaffold2575	281978	AA	TT	1947036661
SNP_P4_176499_282275	NW_004517486.1	Scaffold2575	282275	TT	GG	1947036663
SNP_P4_176500_282294	NW_004517486.1	Scaffold2575	282294	AA	CC	1947036665
SNP_P4_176501_64	NW_004517487.1	Scaffold2577	64	CC	AA	1947036667
SNP_P4_176502_66	NW_004517487.1	Scaffold2577	66	CC	AA	1947036668
SNP_P4_176503_2784	NW_004517491.1	Scaffold2583	2784	GG	CC	1947036670
SNP_P4_176504_2874	NW_004517491.1	Scaffold2583	2874	GG	AA	1947036672
SNP_P4_176505_284	NW_004517495.1	Scaffold2587	284	TT	CC	1947036674
SNP_P4_176506_292	NW_004517495.1	Scaffold2587	292	CC	TT	1947036676
SNP_P4_176507_466	NW_004517495.1	Scaffold2587	466	AA	GG	1947036678

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_176509_470	NW_004517495.1	Scaffold2587	470	GG	AA	1947036682
SNP_P4_176510_25597	NW_004517495.1	Scaffold2587	25597	TT	CC	1947036684
SNP_P4_176511_32809	NW_004517495.1	Scaffold2587	32809	CC	TT	1947036686
SNP_P4_176512_35077	NW_004517495.1	Scaffold2587	35077	CC	TT	1947036688
SNP_P4_176513_35117	NW_004517495.1	Scaffold2587	35117	GG	AA	1947036690
SNP_P4_176514_35124	NW_004517495.1	Scaffold2587	35124	TT	CC	1947036692
SNP_P4_176515_46629	NW_004517495.1	Scaffold2587	46629	CC	AA	1947036694
SNP_P4_176516_1662	NW_004517496.1	Scaffold2591	1662	TT	AA	1947036696
SNP_P4_176517_1743	NW_004517496.1	Scaffold2591	1743	AA	TT	1947036698
SNP_P4_176518_1760	NW_004517496.1	Scaffold2591	1760	AA	CC	1947036700
SNP_P4_176519_1883	NW_004517496.1	Scaffold2591	1883	CC	GG	1947036701
SNP_P4_176520_1974	NW_004517496.1	Scaffold2591	1974	GG	AA	1947036703
SNP_P4_176521_1976	NW_004517496.1	Scaffold2591	1976	AA	CC	1947036705
SNP_P4_176522_2005	NW_004517496.1	Scaffold2591	2005	TT	CC	1947036707
SNP_P4_176523_2034	NW_004517496.1	Scaffold2591	2034	AA	CC	1947036709
SNP_P4_176524_2091	NW_004517496.1	Scaffold2591	2091	CC	TT	1947036711
SNP_P4_176525_2105	NW_004517496.1	Scaffold2591	2105	AA	GG	1947036713
SNP_P4_176526_2194	NW_004517496.1	Scaffold2591	2194	AA	CC	1947036715
SNP_P4_176527_2462	NW_004517496.1	Scaffold2591	2462	TT	AA	1947036717
SNP_P4_176529_22792	NW_004517497.1	Scaffold2593	22792	GG	AA	1947036718
SNP_P4_176530_22827	NW_004517497.1	Scaffold2593	22827	GG	AA	1947036720
SNP_P4_176531_64	NW_004517498.1	Scaffold2594	64	AA	TT	1947036722
SNP_P4_176532_14905	NW_004517498.1	Scaffold2594	14905	TT	AA	1947036724
SNP_P4_176533_31919	NW_004517498.1	Scaffold2594	31919	AA	CC	1947036726
SNP_P4_176534_31936	NW_004517498.1	Scaffold2594	31936	CC	TT	1947036728
SNP_P4_176535_32311	NW_004517498.1	Scaffold2594	32311	AA	GG	1947036730
SNP_P4_176536_32333	NW_004517498.1	Scaffold2594	32333	GG	AA	1947036732
SNP_P4_176537_1495	NW_004517501.1	Scaffold2598	1495	AA	TT	1947036734
SNP_P4_176538_1633	NW_004517501.1	Scaffold2598	1633	GG	TT	1947036736
SNP_P4_176539_1658	NW_004517501.1	Scaffold2598	1658	GG	CC	1947036738
SNP_P4_176540_1721	NW_004517501.1	Scaffold2598	1721	TT	CC	1947036740
SNP_P4_176541_1937	NW_004517501.1	Scaffold2598	1937	GG	TT	1947036742
SNP_P4_176542_1990	NW_004517501.1	Scaffold2598	1990	AA	CC	1947036744
SNP_P4_176543_2226	NW_004517501.1	Scaffold2598	2226	AA	GG	1947036746
SNP_P4_176545_2703	NW_004517501.1	Scaffold2598	2703	TT	GG	1947036748
SNP_P4_176546_2710	NW_004517501.1	Scaffold2598	2710	AA	GG	1947036750
SNP_P4_176547_4484	NW_004517501.1	Scaffold2598	4484	TT	AA	1947036752
SNP_P4_176548_4724	NW_004517501.1	Scaffold2598	4724	CC	TT	1947036755
SNP_P4_176549_8681	NW_004517501.1	Scaffold2598	8681	CC	TT	1947036757
SNP_P4_176550_8826	NW_004517501.1	Scaffold2598	8826	CC	GG	1947036759
SNP_P4_176551_9208	NW_004517501.1	Scaffold2598	9208	CC	AA	1947036761

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_176554_7023	NW_004517502.1	Scaffold2599	7023	AA	GG	1947036767
SNP_P4_176555_7195	NW_004517502.1	Scaffold2599	7195	GG	CC	1947036769
SNP_P4_176556_16748	NW_004517502.1	Scaffold2599	16748	TT	GG	1947036771
SNP_P4_176557_18864	NW_004517502.1	Scaffold2599	18864	GG	CC	1947036773
SNP_P4_176558_19033	NW_004517502.1	Scaffold2599	19033	AA	TT	1947036775
SNP_P4_176559_19973	NW_004517502.1	Scaffold2599	19973	GG	TT	1947036777
SNP_P4_176560_19976	NW_004517502.1	Scaffold2599	19976	TT	GG	1947036779
SNP_P4_176561_20819	NW_004517502.1	Scaffold2599	20819	TT	GG	1947036781
SNP_P4_176562_1937	NW_004517503.1	Scaffold2600	1937	GG	TT	1947036783
SNP_P4_176563_1961	NW_004517503.1	Scaffold2600	1961	TT	GG	1947036785
SNP_P4_176564_1970	NW_004517503.1	Scaffold2600	1970	GG	AA	1947036787
SNP_P4_176565_2018	NW_004517503.1	Scaffold2600	2018	TT	GG	1947036789
SNP_P4_176566_2157	NW_004517503.1	Scaffold2600	2157	AA	GG	1947036791
SNP_P4_176567_2217	NW_004517503.1	Scaffold2600	2217	AA	GG	1947036793
SNP_P4_176568_2218	NW_004517503.1	Scaffold2600	2218	AA	TT	1947036795
SNP_P4_176569_2444	NW_004517503.1	Scaffold2600	2444	AA	TT	1947036797
SNP_P4_176570_2485	NW_004517503.1	Scaffold2600	2485	GG	CC	1947036799
SNP_P4_176571_9478	NW_004517503.1	Scaffold2600	9478	TT	CC	1947036801
SNP_P4_176572_13799	NW_004517503.1	Scaffold2600	13799	GG	AA	1947036803
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SNP_P4_176574_13839	NW_004517503.1	Scaffold2600	13839	TT	AA	1947036807
SNP_P4_176575_6254	NW_004517506.1	Scaffold2603	6254	AA	TT	1947036809
SNP_P4_176576_6269	NW_004517506.1	Scaffold2603	6269	CC	TT	1947036811
SNP_P4_176579_6607	NW_004517506.1	Scaffold2603	6607	CC	TT	1947036813
SNP_P4_176580_6855	NW_004517506.1	Scaffold2603	6855	CC	AA	1947036815
SNP_P4_176581_6909	NW_004517506.1	Scaffold2603	6909	AA	TT	1947036817
SNP_P4_176582_41131	NW_004517506.1	Scaffold2603	41131	GG	AA	1947036819
SNP_P4_176583_45094	NW_004517506.1	Scaffold2603	45094	CC	AA	1947036821
SNP_P4_176585_50793	NW_004517506.1	Scaffold2603	50793	AA	TT	1947036823
SNP_P4_176586_57803	NW_004517506.1	Scaffold2603	57803	TT	AA	1947036825
SNP_P4_176587_57813	NW_004517506.1	Scaffold2603	57813	TT	CC	1947036827
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SNP_P4_176589_58179	NW_004517506.1	Scaffold2603	58179	CC	TT	1947036832
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SNP_P4_176591_59678	NW_004517506.1	Scaffold2603	59678	CC	TT	1947036836
SNP_P4_176592_67352	NW_004517506.1	Scaffold2603	67352	TT	CC	1947036838
SNP_P4_176594_67475	NW_004517506.1	Scaffold2603	67475	AA	TT	1947036840
SNP_P4_176595_67491	NW_004517506.1	Scaffold2603	67491	AA	TT	1947036842
SNP_P4_176596_67573	NW_004517506.1	Scaffold2603	67573	CC	TT	1947036844
SNP_P4_176597_67642	NW_004517506.1	Scaffold2603	67642	TT	AA	1947036846

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_176599_67654	NW_004517506.1	Scaffold2603	67654	CC	TT	1947036850
SNP_P4_176600_67677	NW_004517506.1	Scaffold2603	67677	TT	CC	1947036852
SNP_P4_176601_67716	NW_004517506.1	Scaffold2603	67716	GG	CC	1947036854
SNP_P4_176602_67741	NW_004517506.1	Scaffold2603	67741	AA	CC	1947036856
SNP_P4_176603_67793	NW_004517506.1	Scaffold2603	67793	GG	AA	1947036858
SNP_P4_176604_67828	NW_004517506.1	Scaffold2603	67828	AA	GG	1947036860
SNP_P4_176605_67851	NW_004517506.1	Scaffold2603	67851	TT	AA	1947036862
SNP_P4_176606_67858	NW_004517506.1	Scaffold2603	67858	TT	CC	1947036864
SNP_P4_176607_67860	NW_004517506.1	Scaffold2603	67860	AA	GG	1947036866
SNP_P4_176608_67870	NW_004517506.1	Scaffold2603	67870	AA	GG	1947036868
SNP_P4_176609_67889	NW_004517506.1	Scaffold2603	67889	TT	AA	1947036870
SNP_P4_176610_67927	NW_004517506.1	Scaffold2603	67927	AA	GG	1947036872
SNP_P4_176611_4357	NW_004517507.1	Scaffold2604	4357	GG	CC	1947036875
SNP_P4_176612_1192	NW_004517509.1	Scaffold2606	1192	CC	TT	1947036877
SNP_P4_176613_1240	NW_004517509.1	Scaffold2606	1240	GG	CC	1947036879
SNP_P4_176614_1408	NW_004517509.1	Scaffold2606	1408	TT	CC	1947036881
SNP_P4_176615_1449	NW_004517509.1	Scaffold2606	1449	TT	GG	1947036883
SNP_P4_176616_4201	NW_004517509.1	Scaffold2606	4201	CC	TT	1947036885
SNP_P4_176617_4329	NW_004517509.1	Scaffold2606	4329	CC	TT	1947036887
SNP_P4_176618_4341	NW_004517509.1	Scaffold2606	4341	CC	AA	1947036889
SNP_P4_176619_6166	NW_004517509.1	Scaffold2606	6166	GG	TT	1947036891
SNP_P4_176620_6504	NW_004517509.1	Scaffold2606	6504	AA	GG	1947036893
SNP_P4_176621_22261	NW_004517509.1	Scaffold2606	22261	TT	CC	1947036895
SNP_P4_176622_22318	NW_004517509.1	Scaffold2606	22318	AA	TT	1947036897
SNP_P4_176623_22323	NW_004517509.1	Scaffold2606	22323	AA	GG	1947036899
SNP_P4_176624_27643	NW_004517509.1	Scaffold2606	27643	TT	CC	1947036901
SNP_P4_176625_27785	NW_004517509.1	Scaffold2606	27785	TT	CC	1947036904
SNP_P4_176626_28728	NW_004517509.1	Scaffold2606	28728	GG	AA	1947036906
SNP_P4_176627_28732	NW_004517509.1	Scaffold2606	28732	TT	CC	1947036908
SNP_P4_176628_28753	NW_004517509.1	Scaffold2606	28753	TT	CC	1947036910
SNP_P4_176629_28760	NW_004517509.1	Scaffold2606	28760	CC	TT	1947036912
SNP_P4_176630_28777	NW_004517509.1	Scaffold2606	28777	AA	GG	1947036914
SNP_P4_176631_28821	NW_004517509.1	Scaffold2606	28821	TT	CC	1947036916
SNP_P4_176632_31780	NW_004517509.1	Scaffold2606	31780	TT	CC	1947036918
SNP_P4_176633_31949	NW_004517509.1	Scaffold2606	31949	AA	GG	1947036920
SNP_P4_176634_465	NW_004517510.1	Scaffold2607	465	AA	GG	1947036922
SNP_P4_176635_483	NW_004517510.1	Scaffold2607	483	TT	AA	1947036924
SNP_P4_176636_933	NW_004517510.1	Scaffold2607	933	GG	CC	1947036926
SNP_P4_176637_1009	NW_004517510.1	Scaffold2607	1009	AA	TT	1947036928
SNP_P4_176638_1374	NW_004517510.1	Scaffold2607	1374	GG	TT	1947036930
SNP_P4_176640_5588	NW_004517514.1	Scaffold2612	5588	GG	AA	1947036932

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_176642_5886	NW_004517514.1	Scaffold2612	5886	AA	GG	1947036936
SNP_P4_176643_5944	NW_004517514.1	Scaffold2612	5944	CC	TT	1947036938
SNP_P4_176644_5981	NW_004517514.1	Scaffold2612	5981	CC	TT	1947036940
SNP_P4_176645_6091	NW_004517514.1	Scaffold2612	6091	TT	AA	1947036942
SNP_P4_176646_6165	NW_004517514.1	Scaffold2612	6165	TT	AA	1947036944
SNP_P4_176647_6531	NW_004517514.1	Scaffold2612	6531	CC	TT	1947036946
SNP_P4_176648_6629	NW_004517514.1	Scaffold2612	6629	AA	TT	1947036948
SNP_P4_176649_6640	NW_004517514.1	Scaffold2612	6640	GG	CC	1947036950
SNP_P4_176650_6724	NW_004517514.1	Scaffold2612	6724	TT	CC	1947036952
SNP_P4_176651_7938	NW_004517514.1	Scaffold2612	7938	GG	AA	1947036954
SNP_P4_176652_8021	NW_004517514.1	Scaffold2612	8021	CC	TT	1947036957
SNP_P4_176653_1052	NW_004517515.1	Scaffold2613	1052	AA	TT	1947036959
SNP_P4_176654_240	NW_004517518.1	Scaffold2616	240	CC	GG	1947036961
SNP_P4_176655_267	NW_004517518.1	Scaffold2616	267	CC	TT	1947036963
SNP_P4_176656_314	NW_004517518.1	Scaffold2616	314	AA	CC	1947036965
SNP_P4_176657_315	NW_004517518.1	Scaffold2616	315	CC	TT	1947036967
SNP_P4_176658_15841	NW_004517519.1	Scaffold2617	15841	AA	GG	1947036969
SNP_P4_176659_29541	NW_004517519.1	Scaffold2617	29541	AA	TT	1947036971
SNP_P4_176660_29742	NW_004517519.1	Scaffold2617	29742	GG	AA	1947036973
SNP_P4_176661_29771	NW_004517519.1	Scaffold2617	29771	CC	AA	1947036975
SNP_P4_176662_29780	NW_004517519.1	Scaffold2617	29780	CC	GG	1947036977
SNP_P4_176663_30029	NW_004517519.1	Scaffold2617	30029	GG	AA	1947036979
SNP_P4_176664_30035	NW_004517519.1	Scaffold2617	30035	GG	AA	1947036981
SNP_P4_176665_31408	NW_004517519.1	Scaffold2617	31408	AA	CC	1947036983
SNP_P4_176666_31547	NW_004517519.1	Scaffold2617	31547	CC	TT	1947036985
SNP_P4_176667_31608	NW_004517519.1	Scaffold2617	31608	TT	CC	1947036987
SNP_P4_176668_31610	NW_004517519.1	Scaffold2617	31610	TT	CC	1947036989
SNP_P4_176669_31678	NW_004517519.1	Scaffold2617	31678	CC	TT	1947036991
SNP_P4_176670_31726	NW_004517519.1	Scaffold2617	31726	GG	AA	1947036993
SNP_P4_176671_33715	NW_004517519.1	Scaffold2617	33715	GG	TT	1947036995
SNP_P4_176672_37380	NW_004517519.1	Scaffold2617	37380	GG	AA	1947036997
SNP_P4_176673_59988	NW_004517519.1	Scaffold2617	59988	AA	GG	1947036999
SNP_P4_176674_62235	NW_004517519.1	Scaffold2617	62235	GG	AA	1947037001
SNP_P4_176675_81525	NW_004517519.1	Scaffold2617	81525	TT	GG	1947037003
SNP_P4_176676_81529	NW_004517519.1	Scaffold2617	81529	AA	CC	1947037005
SNP_P4_176677_83710	NW_004517519.1	Scaffold2617	83710	AA	GG	1947037007
SNP_P4_176678_110076	NW_004517519.1	Scaffold2617	110076	GG	TT	1947037009
SNP_P4_176679_110173	NW_004517519.1	Scaffold2617	110173	AA	CC	1947037011
SNP_P4_176680_110443	NW_004517519.1	Scaffold2617	110443	TT	GG	1947037013
SNP_P4_176681_110489	NW_004517519.1	Scaffold2617	110489	AA	GG	1947037015
SNP_P4_176682_110579	NW_004517519.1	Scaffold2617	110579	TT	CC	1947037017

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_176685_111665	NW_004517519.1	Scaffold2617	111665	AA	GG	1947037023
SNP_P4_176686_111704	NW_004517519.1	Scaffold2617	111704	AA	GG	1947037026
SNP_P4_176687_111878	NW_004517519.1	Scaffold2617	111878	TT	CC	1947037028
SNP_P4_176688_111940	NW_004517519.1	Scaffold2617	111940	TT	CC	1947037030
SNP_P4_176689_111994	NW_004517519.1	Scaffold2617	111994	TT	CC	1947037032
SNP_P4_176690_112006	NW_004517519.1	Scaffold2617	112006	TT	CC	1947037034
SNP_P4_176691_112050	NW_004517519.1	Scaffold2617	112050	AA	GG	1947037036
SNP_P4_176692_112057	NW_004517519.1	Scaffold2617	112057	CC	TT	1947037038
SNP_P4_176693_112221	NW_004517519.1	Scaffold2617	112221	GG	AA	1947037040
SNP_P4_176694_112268	NW_004517519.1	Scaffold2617	112268	CC	AA	1947037042
SNP_P4_176695_112284	NW_004517519.1	Scaffold2617	112284	GG	TT	1947037044
SNP_P4_176696_112285	NW_004517519.1	Scaffold2617	112285	TT	CC	1947037046
SNP_P4_176697_112338	NW_004517519.1	Scaffold2617	112338	TT	CC	1947037048
SNP_P4_176698_112383	NW_004517519.1	Scaffold2617	112383	GG	AA	1947037050
SNP_P4_176699_130362	NW_004517519.1	Scaffold2617	130362	AA	GG	1947037052
SNP_P4_176700_138856	NW_004517519.1	Scaffold2617	138856	AA	GG	1947037054
SNP_P4_176701_169182	NW_004517519.1	Scaffold2617	169182	AA	GG	1947037056
SNP_P4_176703_245758	NW_004517519.1	Scaffold2617	245758	AA	TT	1947037058
SNP_P4_176704_267885	NW_004517519.1	Scaffold2617	267885	CC	TT	1947037060
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SNP_P4_176709_320833	NW_004517519.1	Scaffold2617	320833	GG	TT	1947037071
SNP_P4_176711_321057	NW_004517519.1	Scaffold2617	321057	GG	CC	1947037073
SNP_P4_176712_321162	NW_004517519.1	Scaffold2617	321162	GG	TT	1947037075
SNP_P4_176713_321247	NW_004517519.1	Scaffold2617	321247	CC	AA	1947037077
SNP_P4_176714_321424	NW_004517519.1	Scaffold2617	321424	TT	GG	1947037079
SNP_P4_176716_321773	NW_004517519.1	Scaffold2617	321773	TT	CC	1947037081
SNP_P4_176718_321846	NW_004517519.1	Scaffold2617	321846	AA	TT	1947037083
SNP_P4_176719_321848	NW_004517519.1	Scaffold2617	321848	TT	AA	1947037085
SNP_P4_176720_322219	NW_004517519.1	Scaffold2617	322219	TT	CC	1947037087
SNP_P4_176721_322284	NW_004517519.1	Scaffold2617	322284	CC	TT	1947037089
SNP_P4_176722_322349	NW_004517519.1	Scaffold2617	322349	TT	CC	1947037091
SNP_P4_176723_322358	NW_004517519.1	Scaffold2617	322358	GG	AA	1947037093
SNP_P4_176724_322392	NW_004517519.1	Scaffold2617	322392	GG	AA	1947037095
SNP_P4_176725_322401	NW_004517519.1	Scaffold2617	322401	GG	TT	1947037097
SNP_P4_176726_322430	NW_004517519.1	Scaffold2617	322430	GG	AA	1947037099
SNP_P4_176727_322540	NW_004517519.1	Scaffold2617	322540	CC	TT	1947037101
SNP_P4_176728_322576	NW_004517519.1	Scaffold2617	322576	AA	CC	1947037103

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_176731_322643	NW_004517519.1	Scaffold2617	322643	GG	AA	1947037109
SNP_P4_176732_322858	NW_004517519.1	Scaffold2617	322858	AA	GG	1947037111
SNP_P4_176733_322894	NW_004517519.1	Scaffold2617	322894	TT	CC	1947037113
SNP_P4_176734_322934	NW_004517519.1	Scaffold2617	322934	CC	GG	1947037115
SNP_P4_176735_322937	NW_004517519.1	Scaffold2617	322937	AA	TT	1947037117
SNP_P4_176736_322943	NW_004517519.1	Scaffold2617	322943	CC	TT	1947037119
SNP_P4_176737_322970	NW_004517519.1	Scaffold2617	322970	TT	CC	1947037121
SNP_P4_176738_323030	NW_004517519.1	Scaffold2617	323030	AA	GG	1947037123
SNP_P4_176739_323067	NW_004517519.1	Scaffold2617	323067	GG	TT	1947037125
SNP_P4_176740_323077	NW_004517519.1	Scaffold2617	323077	AA	GG	1947037127
SNP_P4_176741_323247	NW_004517519.1	Scaffold2617	323247	GG	TT	1947037129
SNP_P4_176743_324554	NW_004517519.1	Scaffold2617	324554	TT	AA	1947037131
SNP_P4_176744_324639	NW_004517519.1	Scaffold2617	324639	GG	AA	1947037133
SNP_P4_176745_324860	NW_004517519.1	Scaffold2617	324860	AA	CC	1947037135
SNP_P4_176746_325586	NW_004517519.1	Scaffold2617	325586	GG	AA	1947037137
SNP_P4_176747_339689	NW_004517519.1	Scaffold2617	339689	TT	CC	1947037139
SNP_P4_176748_339751	NW_004517519.1	Scaffold2617	339751	AA	GG	1947037141
SNP_P4_176749_339753	NW_004517519.1	Scaffold2617	339753	GG	TT	1947037143
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SNP_P4_176751_371480	NW_004517519.1	Scaffold2617	371480	TT	CC	1947037147
SNP_P4_176752_383566	NW_004517519.1	Scaffold2617	383566	CC	TT	1947037149
SNP_P4_176753_402141	NW_004517519.1	Scaffold2617	402141	CC	TT	1947037151
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SNP_P4_176760_402545	NW_004517519.1	Scaffold2617	402545	AA	TT	1947037162
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SNP_P4_176770_402923	NW_004517519.1	Scaffold2617	402923	TT	CC	1947037178
SNP_P4_176771_413656	NW_004517519.1	Scaffold2617	413656	GG	AA	1947037180
SNP_P4_176772_413729	NW_004517519.1	Scaffold2617	413729	CC	AA	1947037182
SNP_P4_176773_413730	NW_004517519.1	Scaffold2617	413730	CC	AA	1947037184
SNP_P4_176774_413741	NW_004517519.1	Scaffold2617	413741	TT	GG	1947037186
SNP_P4_176775_414290	NW_004517519.1	Scaffold2617	414290	CC	TT	1947037188

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_176778_416986	NW_004517519.1	Scaffold2617	416986	GG	AA	1947037194
SNP_P4_176779_417000	NW_004517519.1	Scaffold2617	417000	CC	AA	1947037196
SNP_P4_176780_433536	NW_004517519.1	Scaffold2617	433536	AA	GG	1947037198
SNP_P4_176781_433767	NW_004517519.1	Scaffold2617	433767	AA	GG	1947037200
SNP_P4_176783_444225	NW_004517519.1	Scaffold2617	444225	AA	CC	1947037202
SNP_P4_176785_444399	NW_004517519.1	Scaffold2617	444399	AA	GG	1947037204
SNP_P4_176786_444449	NW_004517519.1	Scaffold2617	444449	AA	GG	1947037206
SNP_P4_176787_444458	NW_004517519.1	Scaffold2617	444458	GG	AA	1947037208
SNP_P4_176788_444472	NW_004517519.1	Scaffold2617	444472	TT	CC	1947037210
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SNP_P4_176796_513744	NW_004517519.1	Scaffold2617	513744	GG	CC	1947037224
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SNP_P4_176802_514273	NW_004517519.1	Scaffold2617	514273	AA	TT	1947037237
SNP_P4_176803_514297	NW_004517519.1	Scaffold2617	514297	GG	AA	1947037239
SNP_P4_176804_4337	NW_004517520.1	Scaffold2618	4337	GG	AA	1947037241
SNP_P4_176805_4837	NW_004517520.1	Scaffold2618	4837	TT	CC	1947037243
SNP_P4_176806_4855	NW_004517520.1	Scaffold2618	4855	CC	TT	1947037245
SNP_P4_176807_4865	NW_004517520.1	Scaffold2618	4865	TT	AA	1947037247
SNP_P4_176808_23000	NW_004517521.1	Scaffold2620	23000	CC	AA	1947037249
SNP_P4_176809_25011	NW_004517521.1	Scaffold2620	25011	TT	CC	1947037251
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SNP_P4_176812_27939	NW_004517521.1	Scaffold2620	27939	AA	GG	1947037257
SNP_P4_176813_27978	NW_004517521.1	Scaffold2620	27978	AA	GG	1947037259
SNP_P4_176814_28015	NW_004517521.1	Scaffold2620	28015	TT	CC	1947037261
SNP_P4_176815_28041	NW_004517521.1	Scaffold2620	28041	AA	TT	1947037263
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SNP_P4_176817_28072	NW_004517521.1	Scaffold2620	28072	CC	TT	1947037267
SNP_P4_176818_28166	NW_004517521.1	Scaffold2620	28166	CC	TT	1947037269
SNP_P4_176819_28344	NW_004517521.1	Scaffold2620	28344	CC	TT	1947037271
SNP_P4_176820_28379	NW_004517521.1	Scaffold2620	28379	CC	TT	1947037273

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_176822_28388	NW_004517521.1	Scaffold2620	28388	AA	CC	1947037277
SNP_P4_176823_28390	NW_004517521.1	Scaffold2620	28390	AA	GG	1947037279
SNP_P4_176824_28401	NW_004517521.1	Scaffold2620	28401	CC	GG	1947037281
SNP_P4_176825_28412	NW_004517521.1	Scaffold2620	28412	GG	TT	1947037283
SNP_P4_176826_28482	NW_004517521.1	Scaffold2620	28482	GG	AA	1947037285
SNP_P4_176827_28484	NW_004517521.1	Scaffold2620	28484	GG	TT	1947037287
SNP_P4_176828_28668	NW_004517521.1	Scaffold2620	28668	CC	TT	1947037289
SNP_P4_176829_28828	NW_004517521.1	Scaffold2620	28828	AA	TT	1947037291
SNP_P4_176830_29155	NW_004517521.1	Scaffold2620	29155	TT	GG	1947037293
SNP_P4_176831_29219	NW_004517521.1	Scaffold2620	29219	GG	AA	1947037296
SNP_P4_176832_29225	NW_004517521.1	Scaffold2620	29225	TT	CC	1947037298
SNP_P4_176833_29678	NW_004517521.1	Scaffold2620	29678	CC	TT	1947037300
SNP_P4_176834_30434	NW_004517521.1	Scaffold2620	30434	TT	CC	1947037302
SNP_P4_176835_30500	NW_004517521.1	Scaffold2620	30500	AA	TT	1947037304
SNP_P4_176836_30755	NW_004517521.1	Scaffold2620	30755	GG	CC	1947037306
SNP_P4_176837_30795	NW_004517521.1	Scaffold2620	30795	TT	AA	1947037308
SNP_P4_176838_34031	NW_004517521.1	Scaffold2620	34031	GG	TT	1947037310
SNP_P4_176839_34159	NW_004517521.1	Scaffold2620	34159	CC	TT	1947037312
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SNP_P4_176843_34520	NW_004517521.1	Scaffold2620	34520	TT	AA	1947037320
SNP_P4_176844_36128	NW_004517521.1	Scaffold2620	36128	CC	TT	1947037322
SNP_P4_176845_5619	NW_004517522.1	Scaffold2621	5619	TT	CC	1947037324
SNP_P4_176846_5630	NW_004517522.1	Scaffold2621	5630	AA	GG	1947037326
SNP_P4_176847_5653	NW_004517522.1	Scaffold2621	5653	GG	AA	1947037328
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SNP_P4_176849_5699	NW_004517522.1	Scaffold2621	5699	TT	CC	1947037332
SNP_P4_176850_5760	NW_004517522.1	Scaffold2621	5760	GG	CC	1947037334
SNP_P4_176851_6009	NW_004517522.1	Scaffold2621	6009	TT	CC	1947037336
SNP_P4_176852_6238	NW_004517522.1	Scaffold2621	6238	TT	CC	1947037338
SNP_P4_176853_6245	NW_004517522.1	Scaffold2621	6245	AA	GG	1947037340
SNP_P4_176854_6403	NW_004517522.1	Scaffold2621	6403	AA	TT	1947037342
SNP_P4_176855_6469	NW_004517522.1	Scaffold2621	6469	TT	CC	1947037344
SNP_P4_176856_6520	NW_004517522.1	Scaffold2621	6520	GG	TT	1947037346
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SNP_P4_176858_6917	NW_004517522.1	Scaffold2621	6917	GG	CC	1947037350
SNP_P4_176859_723	NW_004517523.1	Scaffold2623	723	AA	TT	1947037352
SNP_P4_176860_824	NW_004517523.1	Scaffold2623	824	GG	TT	1947037354
SNP_P4_176861_770	NW_004517524.1	Scaffold2624	770	GG	TT	1947037356
SNP_P4_176862_1208	NW_004517524.1	Scaffold2624	1208	TT	AA	1947037358

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_176864_14073	NW_004517524.1	Scaffold2624	14073	CC	GG	1947037362
SNP_P4_176865_18008	NW_004517524.1	Scaffold2624	18008	AA	TT	1947037364
SNP_P4_176866_8614	NW_004517525.1	Scaffold2625	8614	AA	GG	1947037366
SNP_P4_176867_8633	NW_004517525.1	Scaffold2625	8633	TT	CC	1947037368
SNP_P4_176868_12628	NW_004517525.1	Scaffold2625	12628	AA	TT	1947037370
SNP_P4_176869_671	NW_004517526.1	Scaffold2626	671	TT	GG	1947037372
SNP_P4_176870_946	NW_004517526.1	Scaffold2626	946	CC	AA	1947037374
SNP_P4_176871_984	NW_004517526.1	Scaffold2626	984	AA	GG	1947037376
SNP_P4_176872_990	NW_004517526.1	Scaffold2626	990	AA	GG	1947037378
SNP_P4_176874_264	NW_004517527.1	Scaffold2627	264	AA	GG	1947037380
SNP_P4_176875_450	NW_004517527.1	Scaffold2627	450	CC	TT	1947037382
SNP_P4_176876_454	NW_004517527.1	Scaffold2627	454	AA	GG	1947037384
SNP_P4_176877_459	NW_004517527.1	Scaffold2627	459	AA	TT	1947037386
SNP_P4_176878_442	NW_004517530.1	Scaffold2633	442	GG	CC	1947037388
SNP_P4_176879_449	NW_004517530.1	Scaffold2633	449	TT	AA	1947037390
SNP_P4_176880_889	NW_004517530.1	Scaffold2633	889	CC	TT	1947037392
SNP_P4_176881_947	NW_004517530.1	Scaffold2633	947	AA	GG	1947037394
SNP_P4_176882_1269	NW_004517530.1	Scaffold2633	1269	AA	GG	1947037396
SNP_P4_176883_1376	NW_004517530.1	Scaffold2633	1376	CC	AA	1947037398
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SNP_P4_176886_21603	NW_004517530.1	Scaffold2633	21603	TT	CC	1947037404
SNP_P4_176887_21622	NW_004517530.1	Scaffold2633	21622	GG	AA	1947037406
SNP_P4_176888_21737	NW_004517530.1	Scaffold2633	21737	GG	AA	1947037408
SNP_P4_176889_3087	NW_004517533.1	Scaffold2637	3087	CC	TT	1947037410
SNP_P4_176890_3201	NW_004517533.1	Scaffold2637	3201	AA	TT	1947037412
SNP_P4_176891_3585	NW_004517533.1	Scaffold2637	3585	AA	CC	1947037414
SNP_P4_176893_3597	NW_004517533.1	Scaffold2637	3597	AA	GG	1947037416
SNP_P4_176894_3643	NW_004517533.1	Scaffold2637	3643	TT	CC	1947037418
SNP_P4_176895_1430	NW_004517536.1	Scaffold2642	1430	TT	CC	1947037420
SNP_P4_176896_1480	NW_004517536.1	Scaffold2642	1480	GG	TT	1947037422
SNP_P4_176897_801	NW_004517537.1	Scaffold2644	801	AA	TT	1947037424
SNP_P4_176898_7078	NW_004517537.1	Scaffold2644	7078	AA	TT	1947037426
SNP_P4_176899_9478	NW_004517537.1	Scaffold2644	9478	GG	AA	1947037428
SNP_P4_176900_9484	NW_004517537.1	Scaffold2644	9484	CC	TT	1947037430
SNP_P4_176901_9493	NW_004517537.1	Scaffold2644	9493	GG	AA	1947037432
SNP_P4_176902_9494	NW_004517537.1	Scaffold2644	9494	GG	AA	1947037434
SNP_P4_176903_10679	NW_004517537.1	Scaffold2644	10679	AA	CC	1947037436
SNP_P4_176904_11012	NW_004517537.1	Scaffold2644	11012	AA	GG	1947037438
SNP_P4_176905_11917	NW_004517537.1	Scaffold2644	11917	TT	AA	1947037440
SNP_P4_176906_12112	NW_004517537.1	Scaffold2644	12112	AA	GG	1947037442

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_176908_13376	NW_004517537.1	Scaffold2644	13376	CC	TT	1947037446
SNP_P4_176909_13381	NW_004517537.1	Scaffold2644	13381	TT	CC	1947037448
SNP_P4_176910_14672	NW_004517537.1	Scaffold2644	14672	AA	TT	1947037450
SNP_P4_176911_20004	NW_004517537.1	Scaffold2644	20004	CC	GG	1947037452
SNP_P4_176912_20029	NW_004517537.1	Scaffold2644	20029	TT	CC	1947037454
SNP_P4_176913_21321	NW_004517537.1	Scaffold2644	21321	AA	GG	1947037457
SNP_P4_176914_21483	NW_004517537.1	Scaffold2644	21483	GG	TT	1947037459
SNP_P4_176915_21573	NW_004517537.1	Scaffold2644	21573	AA	GG	1947037461
SNP_P4_176916_21621	NW_004517537.1	Scaffold2644	21621	AA	GG	1947037463
SNP_P4_176917_21662	NW_004517537.1	Scaffold2644	21662	AA	GG	1947037465
SNP_P4_176918_22792	NW_004517537.1	Scaffold2644	22792	CC	TT	1947037466
SNP_P4_176919_22821	NW_004517537.1	Scaffold2644	22821	GG	TT	1947037468
SNP_P4_176920_23043	NW_004517537.1	Scaffold2644	23043	GG	AA	1947037470
SNP_P4_176921_23056	NW_004517537.1	Scaffold2644	23056	TT	AA	1947037472
SNP_P4_176922_23115	NW_004517537.1	Scaffold2644	23115	AA	GG	1947037474
SNP_P4_176923_23141	NW_004517537.1	Scaffold2644	23141	GG	TT	1947037476
SNP_P4_176924_23616	NW_004517537.1	Scaffold2644	23616	CC	AA	1947037479
SNP_P4_176925_24948	NW_004517537.1	Scaffold2644	24948	CC	TT	1947037482
SNP_P4_176926_3428	NW_004517538.1	Scaffold2645	3428	CC	GG	1947037484
SNP_P4_176927_3576	NW_004517538.1	Scaffold2645	3576	AA	GG	1947037486
SNP_P4_176928_762	NW_004517539.1	Scaffold2646	762	TT	CC	1947037488
SNP_P4_176929_181	NW_004517540.1	Scaffold2648	181	AA	CC	1947037490
SNP_P4_176930_200	NW_004517540.1	Scaffold2648	200	GG	CC	1947037492
SNP_P4_176931_20611	NW_004517541.1	Scaffold2649	20611	CC	AA	1947037494
SNP_P4_176932_21794	NW_004517541.1	Scaffold2649	21794	GG	AA	1947037496
SNP_P4_176933_26901	NW_004517541.1	Scaffold2649	26901	TT	AA	1947037498
SNP_P4_176935_27733	NW_004517541.1	Scaffold2649	27733	AA	GG	1947037501
SNP_P4_176936_27784	NW_004517541.1	Scaffold2649	27784	TT	CC	1947037503
SNP_P4_176937_27814	NW_004517541.1	Scaffold2649	27814	GG	AA	1947037505
SNP_P4_176938_64	NW_004517542.1	Scaffold2650	64	TT	CC	1947037507
SNP_P4_176939_107	NW_004517542.1	Scaffold2650	107	TT	GG	1947037509
SNP_P4_176940_109	NW_004517542.1	Scaffold2650	109	CC	GG	1947037511
SNP_P4_176941_176	NW_004517542.1	Scaffold2650	176	GG	TT	1947037513
SNP_P4_176942_221	NW_004517542.1	Scaffold2650	221	TT	CC	1947037515
SNP_P4_176943_1992	NW_004517542.1	Scaffold2650	1992	GG	CC	1947037517
SNP_P4_176944_2046	NW_004517542.1	Scaffold2650	2046	TT	AA	1947037519
SNP_P4_176945_2060	NW_004517542.1	Scaffold2650	2060	TT	CC	1947037521
SNP_P4_176946_2064	NW_004517542.1	Scaffold2650	2064	GG	AA	1947037523
SNP_P4_176947_962	NW_004517543.1	Scaffold2651	962	TT	CC	1947037525
SNP_P4_176948_987	NW_004517543.1	Scaffold2651	987	AA	GG	1947037527
SNP_P4_176949_4448	NW_004517543.1	Scaffold2651	4448	TT	AA	1947037529

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_176951_7307	NW_004517543.1	Scaffold2651	7307	TT	AA	1947037533
SNP_P4_176952_9843	NW_004517543.1	Scaffold2651	9843	AA	CC	1947037535
SNP_P4_176953_10049	NW_004517543.1	Scaffold2651	10049	CC	TT	1947037537
SNP_P4_176954_17695	NW_004517543.1	Scaffold2651	17695	TT	CC	1947037539
SNP_P4_176955_32334	NW_004517543.1	Scaffold2651	32334	GG	TT	1947037541
SNP_P4_176956_32341	NW_004517543.1	Scaffold2651	32341	AA	TT	1947037543
SNP_P4_176957_32356	NW_004517543.1	Scaffold2651	32356	AA	CC	1947037545
SNP_P4_176958_32414	NW_004517543.1	Scaffold2651	32414	GG	TT	1947037547
SNP_P4_176959_32457	NW_004517543.1	Scaffold2651	32457	AA	TT	1947037549
SNP_P4_176960_32560	NW_004517543.1	Scaffold2651	32560	CC	GG	1947037551
SNP_P4_176961_32649	NW_004517543.1	Scaffold2651	32649	AA	CC	1947037553
SNP_P4_176962_42349	NW_004517543.1	Scaffold2651	42349	AA	GG	1947037555
SNP_P4_176963_13819	NW_004517544.1	Scaffold2653	13819	CC	TT	1947037557
SNP_P4_176964_13885	NW_004517544.1	Scaffold2653	13885	CC	AA	1947037559
SNP_P4_176965_14155	NW_004517544.1	Scaffold2653	14155	GG	CC	1947037561
SNP_P4_176966_14194	NW_004517544.1	Scaffold2653	14194	AA	GG	1947037563
SNP_P4_176967_14357	NW_004517544.1	Scaffold2653	14357	AA	CC	1947037566
SNP_P4_176968_14381	NW_004517544.1	Scaffold2653	14381	GG	AA	1947037568
SNP_P4_176969_14559	NW_004517544.1	Scaffold2653	14559	TT	CC	1947037570
SNP_P4_176970_14742	NW_004517544.1	Scaffold2653	14742	TT	CC	1947037572
SNP_P4_176971_23873	NW_004517544.1	Scaffold2653	23873	CC	TT	1947037574
SNP_P4_176972_25423	NW_004517544.1	Scaffold2653	25423	TT	GG	1947037576
SNP_P4_176973_27244	NW_004517544.1	Scaffold2653	27244	CC	TT	1947037578
SNP_P4_176974_27247	NW_004517544.1	Scaffold2653	27247	TT	GG	1947037580
SNP_P4_176975_2095	NW_004517546.1	Scaffold2655	2095	GG	AA	1947037582
SNP_P4_176976_478	NW_004517547.1	Scaffold2660	478	AA	GG	1947037584
SNP_P4_176977_1674	NW_004517547.1	Scaffold2660	1674	CC	AA	1947037586
SNP_P4_176978_12300	NW_004517547.1	Scaffold2660	12300	TT	AA	1947037588
SNP_P4_176980_404	NW_004517548.1	Scaffold2662	404	TT	AA	1947037590
SNP_P4_176981_690	NW_004517548.1	Scaffold2662	690	AA	GG	1947037592
SNP_P4_176982_825	NW_004517548.1	Scaffold2662	825	CC	AA	1947037594
SNP_P4_176983_1284	NW_004517548.1	Scaffold2662	1284	TT	GG	1947037596
SNP_P4_176985_19441	NW_004517548.1	Scaffold2662	19441	TT	CC	1947037598
SNP_P4_176986_19444	NW_004517548.1	Scaffold2662	19444	TT	GG	1947037600
SNP_P4_176987_19479	NW_004517548.1	Scaffold2662	19479	AA	GG	1947037602
SNP_P4_176988_24110	NW_004517548.1	Scaffold2662	24110	TT	AA	1947037604
SNP_P4_176989_24115	NW_004517548.1	Scaffold2662	24115	TT	CC	1947037607
SNP_P4_176991_24211	NW_004517548.1	Scaffold2662	24211	GG	AA	1947037609
SNP_P4_176992_24228	NW_004517548.1	Scaffold2662	24228	AA	GG	1947037611
SNP_P4_176993_24229	NW_004517548.1	Scaffold2662	24229	GG	AA	1947037613
SNP_P4_176994_24238	NW_004517548.1	Scaffold2662	24238	GG	AA	1947037615

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_176996_24260	NW_004517548.1	Scaffold2662	24260	AA	CC	1947037619
SNP_P4_176997_25622	NW_004517548.1	Scaffold2662	25622	GG	TT	1947037621
SNP_P4_176998_25841	NW_004517548.1	Scaffold2662	25841	GG	TT	1947037623
SNP_P4_177000_26414	NW_004517548.1	Scaffold2662	26414	TT	GG	1947037625
SNP_P4_177001_28088	NW_004517548.1	Scaffold2662	28088	CC	TT	1947037627
SNP_P4_177002_28260	NW_004517548.1	Scaffold2662	28260	TT	CC	1947037629
SNP_P4_177003_28270	NW_004517548.1	Scaffold2662	28270	TT	CC	1947037631
SNP_P4_177005_31436	NW_004517548.1	Scaffold2662	31436	CC	TT	1947037633
SNP_P4_177006_31764	NW_004517548.1	Scaffold2662	31764	TT	GG	1947037635
SNP_P4_177007_31862	NW_004517548.1	Scaffold2662	31862	GG	TT	1947037637
SNP_P4_177008_32679	NW_004517548.1	Scaffold2662	32679	GG	CC	1947037639
SNP_P4_177009_34532	NW_004517548.1	Scaffold2662	34532	GG	CC	1947037641
SNP_P4_177010_34737	NW_004517548.1	Scaffold2662	34737	TT	CC	1947037643
SNP_P4_177012_47785	NW_004517548.1	Scaffold2662	47785	TT	CC	1947037646
SNP_P4_177013_47836	NW_004517548.1	Scaffold2662	47836	TT	CC	1947037648
SNP_P4_177014_48216	NW_004517548.1	Scaffold2662	48216	AA	GG	1947037650
SNP_P4_177015_48236	NW_004517548.1	Scaffold2662	48236	GG	AA	1947037652
SNP_P4_177016_2263	NW_004517549.1	Scaffold2663	2263	GG	AA	1947037654
SNP_P4_177017_2283	NW_004517549.1	Scaffold2663	2283	TT	CC	1947037656
SNP_P4_177018_2569	NW_004517549.1	Scaffold2663	2569	AA	TT	1947037658
SNP_P4_177019_2612	NW_004517549.1	Scaffold2663	2612	GG	AA	1947037660
SNP_P4_177020_10416	NW_004517553.1	Scaffold2668	10416	AA	GG	1947037662
SNP_P4_177021_13004	NW_004517553.1	Scaffold2668	13004	TT	GG	1947037664
SNP_P4_177022_13013	NW_004517553.1	Scaffold2668	13013	TT	CC	1947037666
SNP_P4_177023_13256	NW_004517553.1	Scaffold2668	13256	TT	AA	1947037668
SNP_P4_177024_13262	NW_004517553.1	Scaffold2668	13262	AA	GG	1947037670
SNP_P4_177025_13263	NW_004517553.1	Scaffold2668	13263	TT	AA	1947037672
SNP_P4_177026_13317	NW_004517553.1	Scaffold2668	13317	TT	GG	1947037675
SNP_P4_177027_3307	NW_004517554.1	Scaffold2669	3307	AA	CC	1947037677
SNP_P4_177028_3725	NW_004517554.1	Scaffold2669	3725	TT	CC	1947037679
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SNP_P4_177031_12103	NW_004517554.1	Scaffold2669	12103	CC	TT	1947037683
SNP_P4_177032_12116	NW_004517554.1	Scaffold2669	12116	TT	CC	1947037685
SNP_P4_177033_12203	NW_004517554.1	Scaffold2669	12203	CC	GG	1947037687
SNP_P4_177034_12251	NW_004517554.1	Scaffold2669	12251	CC	TT	1947037689
SNP_P4_177035_12270	NW_004517554.1	Scaffold2669	12270	CC	AA	1947037691
SNP_P4_177036_12293	NW_004517554.1	Scaffold2669	12293	CC	TT	1947037693
SNP_P4_177037_12540	NW_004517554.1	Scaffold2669	12540	GG	TT	1947037695
SNP_P4_177038_12666	NW_004517554.1	Scaffold2669	12666	TT	CC	1947037697
SNP_P4_177039_15928	NW_004517554.1	Scaffold2669	15928	TT	CC	1947037699
SNP_P4_177040_15941	NW_004517554.1	Scaffold2669	15941	CC	TT	1947037701

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_177043_1224	NW_004517555.1	Scaffold2670	1224	CC	GG	1947037705
SNP_P4_177044_1262	NW_004517555.1	Scaffold2670	1262	CC	TT	1947037707
SNP_P4_177045_1268	NW_004517555.1	Scaffold2670	1268	GG	AA	1947037709
SNP_P4_177046_1349	NW_004517555.1	Scaffold2670	1349	CC	GG	1947037711
SNP_P4_177047_1351	NW_004517555.1	Scaffold2670	1351	AA	GG	1947037713
SNP_P4_177048_1367	NW_004517555.1	Scaffold2670	1367	AA	GG	1947037716
SNP_P4_177049_1406	NW_004517555.1	Scaffold2670	1406	GG	AA	1947037718
SNP_P4_177050_1443	NW_004517555.1	Scaffold2670	1443	TT	CC	1947037720
SNP_P4_177051_1469	NW_004517555.1	Scaffold2670	1469	AA	TT	1947037722
SNP_P4_177052_1546	NW_004517555.1	Scaffold2670	1546	TT	CC	1947037724
SNP_P4_177053_1647	NW_004517555.1	Scaffold2670	1647	TT	AA	1947037726
SNP_P4_177055_1692	NW_004517555.1	Scaffold2670	1692	TT	CC	1947037728
SNP_P4_177056_1706	NW_004517555.1	Scaffold2670	1706	AA	TT	1947037730
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SNP_P4_177059_1712	NW_004517555.1	Scaffold2670	1712	GG	AA	1947037736
SNP_P4_177060_2816	NW_004517555.1	Scaffold2670	2816	GG	TT	1947037738
SNP_P4_177061_2817	NW_004517555.1	Scaffold2670	2817	TT	GG	1947037740
SNP_P4_177062_5024	NW_004517555.1	Scaffold2670	5024	TT	CC	1947037743
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SNP_P4_177065_16244	NW_004517555.1	Scaffold2670	16244	CC	AA	1947037749
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SNP_P4_177067_16454	NW_004517555.1	Scaffold2670	16454	AA	TT	1947037753
SNP_P4_177068_23805	NW_004517555.1	Scaffold2670	23805	GG	TT	1947037755
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SNP_P4_177074_26271	NW_004517555.1	Scaffold2670	26271	AA	CC	1947037767
SNP_P4_177075_26326	NW_004517555.1	Scaffold2670	26326	TT	AA	1947037769
SNP_P4_177076_26510	NW_004517555.1	Scaffold2670	26510	CC	TT	1947037771
SNP_P4_177077_26569	NW_004517555.1	Scaffold2670	26569	TT	CC	1947037773
SNP_P4_177078_26634	NW_004517555.1	Scaffold2670	26634	AA	CC	1947037775
SNP_P4_177079_26643	NW_004517555.1	Scaffold2670	26643	CC	AA	1947037777
SNP_P4_177080_26650	NW_004517555.1	Scaffold2670	26650	CC	AA	1947037779
SNP_P4_177081_26670	NW_004517555.1	Scaffold2670	26670	GG	TT	1947037782
SNP_P4_177082_26812	NW_004517555.1	Scaffold2670	26812	AA	GG	1947037784
SNP_P4_177083_26836	NW_004517555.1	Scaffold2670	26836	AA	GG	1947037786
SNP_P4_177084_26851	NW_004517555.1	Scaffold2670	26851	AA	CC	1947037788

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_177086_26881	NW_004517555.1	Scaffold2670	26881	AA	CC	1947037792
SNP_P4_177087_26905	NW_004517555.1	Scaffold2670	26905	AA	GG	1947037794
SNP_P4_177088_30472	NW_004517555.1	Scaffold2670	30472	AA	TT	1947037796
SNP_P4_177089_34890	NW_004517555.1	Scaffold2670	34890	CC	GG	1947037798
SNP_P4_177090_34923	NW_004517555.1	Scaffold2670	34923	TT	CC	1947037800
SNP_P4_177091_36638	NW_004517555.1	Scaffold2670	36638	TT	CC	1947037802
SNP_P4_177092_36662	NW_004517555.1	Scaffold2670	36662	GG	CC	1947037804
SNP_P4_177093_36699	NW_004517555.1	Scaffold2670	36699	CC	GG	1947037806
SNP_P4_177094_36771	NW_004517555.1	Scaffold2670	36771	TT	CC	1947037808
SNP_P4_177095_36792	NW_004517555.1	Scaffold2670	36792	TT	CC	1947037810
SNP_P4_177096_36865	NW_004517555.1	Scaffold2670	36865	CC	TT	1947037812
SNP_P4_177098_36909	NW_004517555.1	Scaffold2670	36909	CC	TT	1947037814
SNP_P4_177099_37018	NW_004517555.1	Scaffold2670	37018	TT	CC	1947037816
SNP_P4_177100_37041	NW_004517555.1	Scaffold2670	37041	CC	AA	1947037818
SNP_P4_177101_37077	NW_004517555.1	Scaffold2670	37077	CC	TT	1947037820
SNP_P4_177102_37169	NW_004517555.1	Scaffold2670	37169	TT	CC	1947037822
SNP_P4_177103_37171	NW_004517555.1	Scaffold2670	37171	GG	TT	1947037824
SNP_P4_177104_37195	NW_004517555.1	Scaffold2670	37195	CC	TT	1947037826
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SNP_P4_177106_42619	NW_004517555.1	Scaffold2670	42619	TT	CC	1947037830
SNP_P4_177107_42635	NW_004517555.1	Scaffold2670	42635	TT	CC	1947037832
SNP_P4_177108_42639	NW_004517555.1	Scaffold2670	42639	TT	GG	1947037834
SNP_P4_177109_42661	NW_004517555.1	Scaffold2670	42661	AA	GG	1947037836
SNP_P4_177110_42663	NW_004517555.1	Scaffold2670	42663	TT	GG	1947037838
SNP_P4_177111_42672	NW_004517555.1	Scaffold2670	42672	AA	TT	1947037840
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SNP_P4_177113_42731	NW_004517555.1	Scaffold2670	42731	AA	GG	1947037844
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SNP_P4_177115_42968	NW_004517555.1	Scaffold2670	42968	CC	TT	1947037850
SNP_P4_177116_43022	NW_004517555.1	Scaffold2670	43022	GG	CC	1947037852
SNP_P4_177117_43310	NW_004517555.1	Scaffold2670	43310	AA	TT	1947037854
SNP_P4_177118_43320	NW_004517555.1	Scaffold2670	43320	GG	TT	1947037856
SNP_P4_177119_43332	NW_004517555.1	Scaffold2670	43332	CC	TT	1947037859
SNP_P4_177120_43458	NW_004517555.1	Scaffold2670	43458	AA	TT	1947037861
SNP_P4_177121_43468	NW_004517555.1	Scaffold2670	43468	GG	TT	1947037863
SNP_P4_177122_43495	NW_004517555.1	Scaffold2670	43495	GG	AA	1947037865
SNP_P4_177123_43534	NW_004517555.1	Scaffold2670	43534	TT	AA	1947037867
SNP_P4_177124_43544	NW_004517555.1	Scaffold2670	43544	GG	AA	1947037869
SNP_P4_177125_43550	NW_004517555.1	Scaffold2670	43550	AA	GG	1947037871
SNP_P4_177126_43835	NW_004517555.1	Scaffold2670	43835	CC	TT	1947037873
SNP_P4_177127_43838	NW_004517555.1	Scaffold2670	43838	GG	AA	1947037875

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_177129_43859	NW_004517555.1	Scaffold2670	43859	TT	GG	1947037879
SNP_P4_177130_43942	NW_004517555.1	Scaffold2670	43942	CC	TT	1947037881
SNP_P4_177131_44067	NW_004517555.1	Scaffold2670	44067	AA	GG	1947037883
SNP_P4_177132_44072	NW_004517555.1	Scaffold2670	44072	TT	GG	1947037885
SNP_P4_177133_44074	NW_004517555.1	Scaffold2670	44074	CC	GG	1947037887
SNP_P4_177134_44984	NW_004517555.1	Scaffold2670	44984	CC	AA	1947037889
SNP_P4_177135_45013	NW_004517555.1	Scaffold2670	45013	CC	TT	1947037891
SNP_P4_177136_45245	NW_004517555.1	Scaffold2670	45245	TT	AA	1947037893
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SNP_P4_177138_45265	NW_004517555.1	Scaffold2670	45265	TT	AA	1947037897
SNP_P4_177139_45298	NW_004517555.1	Scaffold2670	45298	GG	AA	1947037899
SNP_P4_177140_45384	NW_004517555.1	Scaffold2670	45384	TT	CC	1947037901
SNP_P4_177141_45419	NW_004517555.1	Scaffold2670	45419	GG	CC	1947037903
SNP_P4_177142_45423	NW_004517555.1	Scaffold2670	45423	AA	GG	1947037905
SNP_P4_177143_45451	NW_004517555.1	Scaffold2670	45451	GG	TT	1947037907
SNP_P4_177144_45748	NW_004517555.1	Scaffold2670	45748	TT	CC	1947037909
SNP_P4_177145_62447	NW_004517555.1	Scaffold2670	62447	AA	CC	1947037911
SNP_P4_177146_63154	NW_004517555.1	Scaffold2670	63154	AA	GG	1947037913
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SNP_P4_177151_65849	NW_004517555.1	Scaffold2670	65849	CC	GG	1947037923
SNP_P4_177152_65865	NW_004517555.1	Scaffold2670	65865	TT	AA	1947037925
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SNP_P4_177158_66763	NW_004517555.1	Scaffold2670	66763	AA	GG	1947037937
SNP_P4_177159_66776	NW_004517555.1	Scaffold2670	66776	CC	AA	1947037939
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SNP_P4_177162_67039	NW_004517555.1	Scaffold2670	67039	AA	TT	1947037945
SNP_P4_177163_67135	NW_004517555.1	Scaffold2670	67135	TT	CC	1947037947
SNP_P4_177164_67189	NW_004517555.1	Scaffold2670	67189	TT	GG	1947037949
SNP_P4_177165_67215	NW_004517555.1	Scaffold2670	67215	GG	AA	1947037951
SNP_P4_177166_67240	NW_004517555.1	Scaffold2670	67240	AA	GG	1947037953
SNP_P4_177167_69686	NW_004517555.1	Scaffold2670	69686	TT	CC	1947037955
SNP_P4_177168_133219	NW_004517555.1	Scaffold2670	133219	AA	GG	1947037957
SNP_P4_177169_133327	NW_004517555.1	Scaffold2670	133327	AA	GG	1947037959

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_177172_149154	NW_004517555.1	Scaffold2670	149154	TT	CC	1947037963
SNP_P4_177173_149198	NW_004517555.1	Scaffold2670	149198	TT	CC	1947037965
SNP_P4_177174_149426	NW_004517555.1	Scaffold2670	149426	AA	CC	1947037967
SNP_P4_177175_149429	NW_004517555.1	Scaffold2670	149429	CC	TT	1947037969
SNP_P4_177176_149438	NW_004517555.1	Scaffold2670	149438	TT	CC	1947037971
SNP_P4_177177_149468	NW_004517555.1	Scaffold2670	149468	CC	AA	1947037973
SNP_P4_177178_149501	NW_004517555.1	Scaffold2670	149501	GG	CC	1947037975
SNP_P4_177179_149606	NW_004517555.1	Scaffold2670	149606	AA	GG	1947037977
SNP_P4_177181_4264	NW_004517556.1	Scaffold2672	4264	TT	AA	1947037980
SNP_P4_177182_4330	NW_004517556.1	Scaffold2672	4330	GG	AA	1947037982
SNP_P4_177183_4363	NW_004517556.1	Scaffold2672	4363	AA	TT	1947037984
SNP_P4_177184_4376	NW_004517556.1	Scaffold2672	4376	AA	CC	1947037986
SNP_P4_177185_4395	NW_004517556.1	Scaffold2672	4395	TT	AA	1947037988
SNP_P4_177186_4435	NW_004517556.1	Scaffold2672	4435	TT	CC	1947037990
SNP_P4_177187_4512	NW_004517556.1	Scaffold2672	4512	TT	GG	1947037992
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SNP_P4_177195_4980	NW_004517556.1	Scaffold2672	4980	CC	TT	1947038008
SNP_P4_177196_1477	NW_004517557.1	Scaffold2675	1477	CC	TT	1947038010
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SNP_P4_177198_1492	NW_004517557.1	Scaffold2675	1492	TT	GG	1947038014
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SNP_P4_177202_86859	NW_004517559.1	Scaffold2678	86859	CC	TT	1947038020
SNP_P4_177203_101434	NW_004517559.1	Scaffold2678	101434	CC	TT	1947038022
SNP_P4_177204_103468	NW_004517559.1	Scaffold2678	103468	AA	TT	1947038024
SNP_P4_177205_1698	NW_004517562.1	Scaffold2684	1698	AA	GG	1947038026
SNP_P4_177206_1775	NW_004517562.1	Scaffold2684	1775	AA	CC	1947038028
SNP_P4_177207_1785	NW_004517562.1	Scaffold2684	1785	TT	GG	1947038030
SNP_P4_177208_1208	NW_004517564.1	Scaffold2686	1208	TT	GG	1947038032
SNP_P4_177209_772	NW_004517565.1	Scaffold2687	772	AA	CC	1947038034
SNP_P4_177210_64	NW_004517566.1	Scaffold2688	64	AA	GG	1947038036
SNP_P4_177211_1614	NW_004517567.1	Scaffold2689	1614	AA	CC	1947038038
SNP_P4_177212_1742	NW_004517567.1	Scaffold2689	1742	GG	AA	1947038040
SNP_P4_177213_718	NW_004517568.1	Scaffold2691	718	TT	CC	1947038042
SNP_P4_177214_748	NW_004517568.1	Scaffold2691	748	CC	TT	1947038044

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_177216_955	NW_004517568.1	Scaffold2691	955	CC	TT	1947038048
SNP_P4_177217_5032	NW_004517568.1	Scaffold2691	5032	CC	AA	1947038050
SNP_P4_177218_854	NW_004517569.1	Scaffold2692	854	CC	TT	1947038052
SNP_P4_177219_1057	NW_004517569.1	Scaffold2692	1057	AA	TT	1947038054
SNP_P4_177220_1202	NW_004517569.1	Scaffold2692	1202	CC	TT	1947038056
SNP_P4_177221_1216	NW_004517569.1	Scaffold2692	1216	TT	CC	1947038058
SNP_P4_177222_1228	NW_004517569.1	Scaffold2692	1228	GG	TT	1947038060
SNP_P4_177223_1245	NW_004517569.1	Scaffold2692	1245	TT	AA	1947038062
SNP_P4_177226_1787	NW_004517569.1	Scaffold2692	1787	TT	CC	1947038064
SNP_P4_177228_12846	NW_004517569.1	Scaffold2692	12846	CC	TT	1947038066
SNP_P4_177229_12850	NW_004517569.1	Scaffold2692	12850	GG	TT	1947038068
SNP_P4_177230_12861	NW_004517569.1	Scaffold2692	12861	TT	CC	1947038070
SNP_P4_177231_13278	NW_004517569.1	Scaffold2692	13278	AA	TT	1947038072
SNP_P4_177232_13939	NW_004517569.1	Scaffold2692	13939	TT	CC	1947038074
SNP_P4_177234_14283	NW_004517569.1	Scaffold2692	14283	CC	TT	1947038076
SNP_P4_177236_14453	NW_004517569.1	Scaffold2692	14453	CC	GG	1947038078
SNP_P4_177238_14651	NW_004517569.1	Scaffold2692	14651	TT	CC	1947038080
SNP_P4_177240_14900	NW_004517569.1	Scaffold2692	14900	TT	GG	1947038082
SNP_P4_177241_65	NW_004517571.1	Scaffold2695	65	TT	AA	1947038084
SNP_P4_177243_1794	NW_004517571.1	Scaffold2695	1794	TT	CC	1947038086
SNP_P4_177244_1825	NW_004517571.1	Scaffold2695	1825	AA	TT	1947038088
SNP_P4_177245_1840	NW_004517571.1	Scaffold2695	1840	AA	GG	1947038090
SNP_P4_177246_1916	NW_004517571.1	Scaffold2695	1916	TT	AA	1947038092
SNP_P4_177247_3435	NW_004517571.1	Scaffold2695	3435	TT	CC	1947038094
SNP_P4_177248_7440	NW_004517571.1	Scaffold2695	7440	GG	AA	1947038096
SNP_P4_177249_7451	NW_004517571.1	Scaffold2695	7451	GG	TT	1947038098
SNP_P4_177250_7487	NW_004517571.1	Scaffold2695	7487	GG	AA	1947038100
SNP_P4_177251_7512	NW_004517571.1	Scaffold2695	7512	AA	GG	1947038102
SNP_P4_177252_7672	NW_004517571.1	Scaffold2695	7672	TT	CC	1947038104
SNP_P4_177253_7984	NW_004517571.1	Scaffold2695	7984	GG	CC	1947038106
SNP_P4_177254_7995	NW_004517571.1	Scaffold2695	7995	TT	GG	1947038108
SNP_P4_177255_8034	NW_004517571.1	Scaffold2695	8034	CC	AA	1947038110
SNP_P4_177256_12404	NW_004517571.1	Scaffold2695	12404	TT	AA	1947038112
SNP_P4_177257_486	NW_004517573.1	Scaffold2698	486	CC	TT	1947038114
SNP_P4_177258_3634	NW_004517575.1	Scaffold2700	3634	TT	AA	1947038116
SNP_P4_177259_3638	NW_004517575.1	Scaffold2700	3638	CC	TT	1947038118
SNP_P4_177260_3728	NW_004517575.1	Scaffold2700	3728	AA	GG	1947038120
SNP_P4_177261_3733	NW_004517575.1	Scaffold2700	3733	CC	TT	1947038122
SNP_P4_177262_4041	NW_004517575.1	Scaffold2700	4041	CC	TT	1947038124
SNP_P4_177263_4074	NW_004517575.1	Scaffold2700	4074	TT	CC	1947038126
SNP_P4_177264_4094	NW_004517575.1	Scaffold2700	4094	CC	TT	1947038128

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_177265_4132	NW_004517575.1	Scaffold2700	4132	AA	TT	1947038130
SNP_P4_177266_5030	NW_004517575.1	Scaffold2700	5030	CC	AA	1947038132
SNP_P4_177267_10348	NW_004517575.1	Scaffold2700	10348	AA	GG	1947038134
SNP_P4_177268_10354	NW_004517575.1	Scaffold2700	10354	GG	TT	1947038136
SNP_P4_177269_10804	NW_004517575.1	Scaffold2700	10804	AA	TT	1947038138
SNP_P4_177270_10871	NW_004517575.1	Scaffold2700	10871	GG	AA	1947038140
SNP_P4_177272_333	NW_004517578.1	Scaffold2705	333	CC	TT	1947038142
SNP_P4_177273_335	NW_004517578.1	Scaffold2705	335	CC	AA	1947038144
SNP_P4_177274_409	NW_004517578.1	Scaffold2705	409	TT	AA	1947038146
SNP_P4_177275_436	NW_004517578.1	Scaffold2705	436	CC	AA	1947038148
SNP_P4_177276_459	NW_004517578.1	Scaffold2705	459	GG	CC	1947038150
SNP_P4_177277_507	NW_004517578.1	Scaffold2705	507	GG	AA	1947038152
SNP_P4_177278_519	NW_004517578.1	Scaffold2705	519	AA	GG	1947038154
SNP_P4_177279_566	NW_004517578.1	Scaffold2705	566	GG	TT	1947038157
SNP_P4_177280_738	NW_004517578.1	Scaffold2705	738	AA	GG	1947038159
SNP_P4_177281_799	NW_004517578.1	Scaffold2705	799	CC	GG	1947038161
SNP_P4_177282_916	NW_004517578.1	Scaffold2705	916	AA	GG	1947038163
SNP_P4_177283_920	NW_004517578.1	Scaffold2705	920	TT	CC	1947038165
SNP_P4_177284_953	NW_004517578.1	Scaffold2705	953	GG	TT	1947038167
SNP_P4_177285_1376	NW_004517578.1	Scaffold2705	1376	TT	CC	1947038169
SNP_P4_177287_1599	NW_004517578.1	Scaffold2705	1599	TT	AA	1947038171
SNP_P4_177288_5934	NW_004517579.1	Scaffold2706	5934	CC	TT	1947038173
SNP_P4_177289_5979	NW_004517579.1	Scaffold2706	5979	TT	CC	1947038175
SNP_P4_177290_7872	NW_004517579.1	Scaffold2706	7872	AA	TT	1947038177
SNP_P4_177291_17749	NW_004517580.1	Scaffold2707	17749	TT	CC	1947038179
SNP_P4_177292_17784	NW_004517580.1	Scaffold2707	17784	TT	CC	1947038181
SNP_P4_177293_17785	NW_004517580.1	Scaffold2707	17785	GG	AA	1947038183
SNP_P4_177294_17836	NW_004517580.1	Scaffold2707	17836	AA	TT	1947038185
SNP_P4_177295_17847	NW_004517580.1	Scaffold2707	17847	GG	AA	1947038187
SNP_P4_177296_17919	NW_004517580.1	Scaffold2707	17919	GG	AA	1947038189
SNP_P4_177297_33487	NW_004517580.1	Scaffold2707	33487	TT	AA	1947038191
SNP_P4_177298_33488	NW_004517580.1	Scaffold2707	33488	AA	TT	1947038193
SNP_P4_177299_33494	NW_004517580.1	Scaffold2707	33494	TT	AA	1947038195
SNP_P4_177300_5083	NW_004517581.1	Scaffold2709	5083	TT	CC	1947038197
SNP_P4_177301_9030	NW_004517581.1	Scaffold2709	9030	CC	TT	1947038199
SNP_P4_177302_9149	NW_004517581.1	Scaffold2709	9149	TT	AA	1947038201
SNP_P4_177303_9301	NW_004517581.1	Scaffold2709	9301	CC	TT	1947038203
SNP_P4_177304_9335	NW_004517581.1	Scaffold2709	9335	TT	AA	1947038205
SNP_P4_177305_9420	NW_004517581.1	Scaffold2709	9420	AA	TT	1947038207
SNP_P4_177306_9421	NW_004517581.1	Scaffold2709	9421	TT	CC	1947038209
SNP_P4_177307_9449	NW_004517581.1	Scaffold2709	9449	GG	TT	1947038211
SNP_P4_177308_9564	NW_004517581.1	Scaffold2709	9564	CC	AA	1947038213

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_177309_20061	NW_004517581.1	Scaffold2709	20061	TT	CC	1947038215
SNP_P4_177310_20072	NW_004517581.1	Scaffold2709	20072	AA	GG	1947038217
SNP_P4_177311_20100	NW_004517581.1	Scaffold2709	20100	TT	GG	1947038219
SNP_P4_177312_20152	NW_004517581.1	Scaffold2709	20152	GG	CC	1947038221
SNP_P4_177313_21832	NW_004517581.1	Scaffold2709	21832	CC	TT	1947038223
SNP_P4_177314_21895	NW_004517581.1	Scaffold2709	21895	GG	AA	1947038225
SNP_P4_177315_21898	NW_004517581.1	Scaffold2709	21898	GG	AA	1947038227
SNP_P4_177316_21917	NW_004517581.1	Scaffold2709	21917	TT	CC	1947038229
SNP_P4_177317_22350	NW_004517581.1	Scaffold2709	22350	AA	GG	1947038231
SNP_P4_177318_28980	NW_004517581.1	Scaffold2709	28980	CC	TT	1947038233
SNP_P4_177319_34463	NW_004517581.1	Scaffold2709	34463	GG	AA	1947038235
SNP_P4_177320_35043	NW_004517581.1	Scaffold2709	35043	CC	TT	1947038237
SNP_P4_177321_5175	NW_004517582.1	Scaffold2710	5175	TT	CC	1947038239
SNP_P4_177322_4528	NW_004517583.1	Scaffold2711	4528	CC	TT	1947038242
SNP_P4_177323_4535	NW_004517583.1	Scaffold2711	4535	TT	AA	1947038244
SNP_P4_177324_4538	NW_004517583.1	Scaffold2711	4538	TT	AA	1947038246
SNP_P4_177325_4603	NW_004517583.1	Scaffold2711	4603	AA	GG	1947038248
SNP_P4_177326_4615	NW_004517583.1	Scaffold2711	4615	CC	AA	1947038250
SNP_P4_177327_4629	NW_004517583.1	Scaffold2711	4629	CC	TT	1947038252
SNP_P4_177328_20469	NW_004517583.1	Scaffold2711	20469	TT	CC	1947038254
SNP_P4_177330_1967	NW_004517585.1	Scaffold2714	1967	AA	TT	1947038256
SNP_P4_177331_1708	NW_004517586.1	Scaffold2715	1708	AA	GG	1947038258
SNP_P4_177332_22925	NW_004517586.1	Scaffold2715	22925	TT	CC	1947038260
SNP_P4_177333_30527	NW_004517586.1	Scaffold2715	30527	CC	TT	1947038262
SNP_P4_177334_41712	NW_004517586.1	Scaffold2715	41712	TT	AA	1947038264
SNP_P4_177335_41744	NW_004517586.1	Scaffold2715	41744	AA	CC	1947038266
SNP_P4_177336_41763	NW_004517586.1	Scaffold2715	41763	AA	GG	1947038268
SNP_P4_177337_41791	NW_004517586.1	Scaffold2715	41791	CC	TT	1947038270
SNP_P4_177338_41800	NW_004517586.1	Scaffold2715	41800	TT	GG	1947038272
SNP_P4_177339_41832	NW_004517586.1	Scaffold2715	41832	TT	AA	1947038274
SNP_P4_177340_41961	NW_004517586.1	Scaffold2715	41961	GG	AA	1947038276
SNP_P4_177341_42208	NW_004517586.1	Scaffold2715	42208	AA	GG	1947038278
SNP_P4_177342_42474	NW_004517586.1	Scaffold2715	42474	GG	CC	1947038280
SNP_P4_177343_42742	NW_004517586.1	Scaffold2715	42742	CC	AA	1947038282
SNP_P4_177344_233	NW_004517589.1	Scaffold2719	233	GG	CC	1947038284
SNP_P4_177345_368	NW_004517589.1	Scaffold2719	368	TT	GG	1947038287
SNP_P4_177346_442	NW_004517589.1	Scaffold2719	442	GG	CC	1947038289
SNP_P4_177347_448	NW_004517589.1	Scaffold2719	448	AA	GG	1947038291
SNP_P4_177348_2382	NW_004517589.1	Scaffold2719	2382	CC	TT	1947038293
SNP_P4_177349_26424	NW_004517590.1	Scaffold2720	26424	CC	TT	1947038295
SNP_P4_177352_26603	NW_004517590.1	Scaffold2720	26603	AA	CC	1947038297
SNP_P4_177353_26649	NW_004517590.1	Scaffold2720	26649	TT	GG	1947038300

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_177355_26700	NW_004517590.1	Scaffold2720	26700	GG	AA	1947038304
SNP_P4_177356_27349	NW_004517590.1	Scaffold2720	27349	CC	TT	1947038306
SNP_P4_177357_28143	NW_004517590.1	Scaffold2720	28143	GG	AA	1947038308
SNP_P4_177358_28176	NW_004517590.1	Scaffold2720	28176	AA	GG	1947038310
SNP_P4_177359_28182	NW_004517590.1	Scaffold2720	28182	AA	GG	1947038312
SNP_P4_177360_28221	NW_004517590.1	Scaffold2720	28221	TT	GG	1947038315
SNP_P4_177361_28595	NW_004517590.1	Scaffold2720	28595	GG	TT	1947038316
SNP_P4_177362_28647	NW_004517590.1	Scaffold2720	28647	GG	CC	1947038317
SNP_P4_177363_28732	NW_004517590.1	Scaffold2720	28732	CC	TT	1947038318
SNP_P4_177364_28762	NW_004517590.1	Scaffold2720	28762	CC	AA	1947038319
SNP_P4_177365_28770	NW_004517590.1	Scaffold2720	28770	GG	AA	1947038320
SNP_P4_177366_28967	NW_004517590.1	Scaffold2720	28967	TT	CC	1947038321
SNP_P4_177367_29020	NW_004517590.1	Scaffold2720	29020	TT	CC	1947038322
SNP_P4_177368_29023	NW_004517590.1	Scaffold2720	29023	AA	CC	1947038323
SNP_P4_177369_29026	NW_004517590.1	Scaffold2720	29026	AA	GG	1947038324
SNP_P4_177370_29045	NW_004517590.1	Scaffold2720	29045	TT	AA	1947038325
SNP_P4_177371_29070	NW_004517590.1	Scaffold2720	29070	TT	AA	1947038326
SNP_P4_177372_44009	NW_004517590.1	Scaffold2720	44009	CC	TT	1947038327
SNP_P4_177373_87987	NW_004517590.1	Scaffold2720	87987	CC	TT	1947038328
SNP_P4_177374_112789	NW_004517590.1	Scaffold2720	112789	TT	GG	1947038329
SNP_P4_177375_112790	NW_004517590.1	Scaffold2720	112790	AA	GG	1947038330
SNP_P4_177376_120125	NW_004517590.1	Scaffold2720	120125	TT	GG	1947038331
SNP_P4_177377_120244	NW_004517590.1	Scaffold2720	120244	CC	TT	1947038332
SNP_P4_177378_120265	NW_004517590.1	Scaffold2720	120265	TT	GG	1947038333
SNP_P4_177379_123625	NW_004517590.1	Scaffold2720	123625	AA	GG	1947038334
SNP_P4_177380_123628	NW_004517590.1	Scaffold2720	123628	AA	TT	1947038335
SNP_P4_177381_123845	NW_004517590.1	Scaffold2720	123845	GG	TT	1947038336
SNP_P4_177382_123853	NW_004517590.1	Scaffold2720	123853	GG	TT	1947038337
SNP_P4_177383_123863	NW_004517590.1	Scaffold2720	123863	CC	TT	1947038338
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SNP_P4_177385_123922	NW_004517590.1	Scaffold2720	123922	GG	TT	1947038340
SNP_P4_177386_123935	NW_004517590.1	Scaffold2720	123935	CC	TT	1947038341
SNP_P4_177387_126593	NW_004517590.1	Scaffold2720	126593	TT	CC	1947038342
SNP_P4_177388_126647	NW_004517590.1	Scaffold2720	126647	TT	GG	1947038343
SNP_P4_177389_126659	NW_004517590.1	Scaffold2720	126659	GG	TT	1947038344
SNP_P4_177390_126681	NW_004517590.1	Scaffold2720	126681	TT	CC	1947038345
SNP_P4_177391_126683	NW_004517590.1	Scaffold2720	126683	AA	CC	1947038346
SNP_P4_177392_126751	NW_004517590.1	Scaffold2720	126751	TT	CC	1947038347
SNP_P4_177393_127026	NW_004517590.1	Scaffold2720	127026	TT	CC	1947038348
SNP_P4_177394_127128	NW_004517590.1	Scaffold2720	127128	TT	CC	1947038349
SNP_P4_177395_127150	NW_004517590.1	Scaffold2720	127150	AA	GG	1947038350

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_177398_132007	NW_004517590.1	Scaffold2720	132007	AA	GG	1947038352
SNP_P4_177399_132021	NW_004517590.1	Scaffold2720	132021	CC	GG	1947038353
SNP_P4_177400_132022	NW_004517590.1	Scaffold2720	132022	CC	TT	1947038354
SNP_P4_177401_132032	NW_004517590.1	Scaffold2720	132032	CC	TT	1947038355
SNP_P4_177402_132111	NW_004517590.1	Scaffold2720	132111	AA	GG	1947038356
SNP_P4_177403_174347	NW_004517590.1	Scaffold2720	174347	CC	TT	1947038358
SNP_P4_177404_174419	NW_004517590.1	Scaffold2720	174419	TT	CC	1947038360
SNP_P4_177405_174485	NW_004517590.1	Scaffold2720	174485	AA	GG	1947038362
SNP_P4_177406_182820	NW_004517590.1	Scaffold2720	182820	GG	CC	1947038364
SNP_P4_177407_182827	NW_004517590.1	Scaffold2720	182827	TT	CC	1947038366
SNP_P4_177408_182884	NW_004517590.1	Scaffold2720	182884	TT	CC	1947038368
SNP_P4_177409_182966	NW_004517590.1	Scaffold2720	182966	TT	CC	1947038370
SNP_P4_177410_183089	NW_004517590.1	Scaffold2720	183089	TT	CC	1947038372
SNP_P4_177411_183098	NW_004517590.1	Scaffold2720	183098	TT	AA	1947038374
SNP_P4_177412_183099	NW_004517590.1	Scaffold2720	183099	AA	GG	1947038376
SNP_P4_177413_183100	NW_004517590.1	Scaffold2720	183100	TT	CC	1947038378
SNP_P4_177414_183119	NW_004517590.1	Scaffold2720	183119	GG	AA	1947038380
SNP_P4_177415_183280	NW_004517590.1	Scaffold2720	183280	TT	CC	1947038382
SNP_P4_177416_202125	NW_004517590.1	Scaffold2720	202125	CC	GG	1947038384
SNP_P4_177417_209625	NW_004517590.1	Scaffold2720	209625	CC	AA	1947038386
SNP_P4_177419_219736	NW_004517590.1	Scaffold2720	219736	AA	GG	1947038388
SNP_P4_177420_219750	NW_004517590.1	Scaffold2720	219750	GG	AA	1947038390
SNP_P4_177421_223949	NW_004517590.1	Scaffold2720	223949	CC	TT	1947038392
SNP_P4_177422_223974	NW_004517590.1	Scaffold2720	223974	CC	AA	1947038394
SNP_P4_177423_224015	NW_004517590.1	Scaffold2720	224015	CC	TT	1947038396
SNP_P4_177424_224183	NW_004517590.1	Scaffold2720	224183	TT	CC	1947038398
SNP_P4_177425_224317	NW_004517590.1	Scaffold2720	224317	CC	TT	1947038400
SNP_P4_177426_224344	NW_004517590.1	Scaffold2720	224344	CC	TT	1947038402
SNP_P4_177427_224423	NW_004517590.1	Scaffold2720	224423	GG	AA	1947038404
SNP_P4_177428_224429	NW_004517590.1	Scaffold2720	224429	AA	GG	1947038406
SNP_P4_177429_224432	NW_004517590.1	Scaffold2720	224432	GG	AA	1947038408
SNP_P4_177430_224444	NW_004517590.1	Scaffold2720	224444	AA	GG	1947038410
SNP_P4_177431_224456	NW_004517590.1	Scaffold2720	224456	AA	TT	1947038412
SNP_P4_177432_576	NW_004517591.1	Scaffold2722	576	AA	GG	1947038414
SNP_P4_177433_752	NW_004517591.1	Scaffold2722	752	TT	CC	1947038416
SNP_P4_177434_759	NW_004517591.1	Scaffold2722	759	GG	AA	1947038418
SNP_P4_177435_790	NW_004517591.1	Scaffold2722	790	GG	CC	1947038420
SNP_P4_177437_831	NW_004517591.1	Scaffold2722	831	AA	GG	1947038422
SNP_P4_177438_903	NW_004517591.1	Scaffold2722	903	GG	AA	1947038423
SNP_P4_177439_906	NW_004517591.1	Scaffold2722	906	AA	GG	1947038425
SNP_P4_177440_916	NW_004517591.1	Scaffold2722	916	AA	GG	1947038427

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_177442_964	NW_004517591.1	Scaffold2722	964	GG	AA	1947038431
SNP_P4_177443_1949	NW_004517591.1	Scaffold2722	1949	CC	AA	1947038433
SNP_P4_177444_1960	NW_004517591.1	Scaffold2722	1960	AA	GG	1947038435
SNP_P4_177445_2638	NW_004517591.1	Scaffold2722	2638	AA	GG	1947038437
SNP_P4_177446_17965	NW_004517591.1	Scaffold2722	17965	AA	CC	1947038439
SNP_P4_177447_24164	NW_004517591.1	Scaffold2722	24164	AA	TT	1947038441
SNP_P4_177448_26667	NW_004517591.1	Scaffold2722	26667	CC	AA	1947038443
SNP_P4_177449_27153	NW_004517591.1	Scaffold2722	27153	TT	AA	1947038445
SNP_P4_177450_27154	NW_004517591.1	Scaffold2722	27154	CC	AA	1947038447
SNP_P4_177451_27337	NW_004517591.1	Scaffold2722	27337	AA	GG	1947038449
SNP_P4_177452_27367	NW_004517591.1	Scaffold2722	27367	GG	AA	1947038451
SNP_P4_177453_31191	NW_004517591.1	Scaffold2722	31191	GG	AA	1947038453
SNP_P4_177454_31541	NW_004517591.1	Scaffold2722	31541	TT	AA	1947038455
SNP_P4_177455_33886	NW_004517591.1	Scaffold2722	33886	TT	CC	1947038457
SNP_P4_177456_41281	NW_004517591.1	Scaffold2722	41281	GG	TT	1947038459
SNP_P4_177457_42121	NW_004517591.1	Scaffold2722	42121	GG	AA	1947038461
SNP_P4_177458_52254	NW_004517591.1	Scaffold2722	52254	CC	TT	1947038463
SNP_P4_177459_52313	NW_004517591.1	Scaffold2722	52313	CC	TT	1947038465
SNP_P4_177461_65809	NW_004517591.1	Scaffold2722	65809	GG	AA	1947038468
SNP_P4_177462_67619	NW_004517591.1	Scaffold2722	67619	GG	AA	1947038470
SNP_P4_177464_71637	NW_004517591.1	Scaffold2722	71637	TT	AA	1947038472
SNP_P4_177467_78231	NW_004517591.1	Scaffold2722	78231	GG	AA	1947038474
SNP_P4_177468_81134	NW_004517591.1	Scaffold2722	81134	TT	CC	1947038476
SNP_P4_177469_81172	NW_004517591.1	Scaffold2722	81172	AA	CC	1947038478
SNP_P4_177470_87099	NW_004517591.1	Scaffold2722	87099	TT	GG	1947038480
SNP_P4_177471_4280	NW_004517592.1	Scaffold2724	4280	CC	AA	1947038482
SNP_P4_177472_4746	NW_004517592.1	Scaffold2724	4746	CC	TT	1947038484
SNP_P4_177473_19302	NW_004517592.1	Scaffold2724	19302	CC	TT	1947038486
SNP_P4_177474_19399	NW_004517592.1	Scaffold2724	19399	AA	CC	1947038488
SNP_P4_177475_19402	NW_004517592.1	Scaffold2724	19402	CC	TT	1947038490
SNP_P4_177476_19404	NW_004517592.1	Scaffold2724	19404	CC	TT	1947038492
SNP_P4_177477_19409	NW_004517592.1	Scaffold2724	19409	GG	AA	1947038494
SNP_P4_177478_22339	NW_004517592.1	Scaffold2724	22339	GG	TT	1947038496
SNP_P4_177479_22343	NW_004517592.1	Scaffold2724	22343	TT	AA	1947038498
SNP_P4_177480_64	NW_004517593.1	Scaffold2725	64	CC	TT	1947038500
SNP_P4_177482_1033	NW_004517593.1	Scaffold2725	1033	TT	CC	1947038502
SNP_P4_177484_1371	NW_004517593.1	Scaffold2725	1371	TT	CC	1947038504
SNP_P4_177485_3015	NW_004517593.1	Scaffold2725	3015	GG	AA	1947038506
SNP_P4_177486_3043	NW_004517593.1	Scaffold2725	3043	AA	GG	1947038509
SNP_P4_177487_3069	NW_004517593.1	Scaffold2725	3069	TT	GG	1947038511
SNP_P4_177488_3115	NW_004517593.1	Scaffold2725	3115	GG	AA	1947038513

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_177490_3603	NW_004517593.1	Scaffold2725	3603	AA	GG	1947038517
SNP_P4_177491_3899	NW_004517593.1	Scaffold2725	3899	AA	GG	1947038519
SNP_P4_177493_4126	NW_004517594.1	Scaffold2726	4126	GG	TT	1947038521
SNP_P4_177495_4542	NW_004517594.1	Scaffold2726	4542	AA	TT	1947038523
SNP_P4_177496_1407	NW_004517595.1	Scaffold2727	1407	TT	AA	1947038525
SNP_P4_177497_1422	NW_004517595.1	Scaffold2727	1422	TT	CC	1947038527
SNP_P4_177498_1509	NW_004517595.1	Scaffold2727	1509	TT	CC	1947038529
SNP_P4_177499_1749	NW_004517595.1	Scaffold2727	1749	CC	GG	1947038531
SNP_P4_177500_1760	NW_004517595.1	Scaffold2727	1760	AA	GG	1947038533
SNP_P4_177501_1819	NW_004517595.1	Scaffold2727	1819	GG	AA	1947038536
SNP_P4_177502_920	NW_004517596.1	Scaffold2728	920	TT	GG	1947038538
SNP_P4_177503_966	NW_004517596.1	Scaffold2728	966	AA	CC	1947038540
SNP_P4_177504_980	NW_004517596.1	Scaffold2728	980	GG	AA	1947038542
SNP_P4_177505_10992	NW_004517596.1	Scaffold2728	10992	GG	AA	1947038544
SNP_P4_177507_11383	NW_004517596.1	Scaffold2728	11383	CC	AA	1947038546
SNP_P4_177508_11398	NW_004517596.1	Scaffold2728	11398	AA	GG	1947038548
SNP_P4_177509_11545	NW_004517596.1	Scaffold2728	11545	CC	GG	1947038550
SNP_P4_177510_11568	NW_004517596.1	Scaffold2728	11568	TT	CC	1947038552
SNP_P4_177511_1190	NW_004517597.1	Scaffold2729	1190	GG	AA	1947038554
SNP_P4_177512_1194	NW_004517597.1	Scaffold2729	1194	CC	TT	1947038556
SNP_P4_177513_1210	NW_004517597.1	Scaffold2729	1210	AA	TT	1947038558
SNP_P4_177514_1232	NW_004517597.1	Scaffold2729	1232	AA	GG	1947038560
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SNP_P4_177516_2408	NW_004517597.1	Scaffold2729	2408	CC	AA	1947038564
SNP_P4_177517_2900	NW_004517597.1	Scaffold2729	2900	AA	CC	1947038566
SNP_P4_177518_2901	NW_004517597.1	Scaffold2729	2901	TT	CC	1947038568
SNP_P4_177519_3154	NW_004517597.1	Scaffold2729	3154	CC	GG	1947038570
SNP_P4_177520_3180	NW_004517597.1	Scaffold2729	3180	AA	TT	1947038572
SNP_P4_177521_3233	NW_004517597.1	Scaffold2729	3233	TT	CC	1947038574
SNP_P4_177522_3286	NW_004517597.1	Scaffold2729	3286	CC	TT	1947038576
SNP_P4_177523_3306	NW_004517597.1	Scaffold2729	3306	CC	AA	1947038578
SNP_P4_177524_5820	NW_004517597.1	Scaffold2729	5820	GG	AA	1947038580
SNP_P4_177525_5824	NW_004517597.1	Scaffold2729	5824	AA	TT	1947038582
SNP_P4_177526_5825	NW_004517597.1	Scaffold2729	5825	TT	AA	1947038584
SNP_P4_177527_5826	NW_004517597.1	Scaffold2729	5826	TT	CC	1947038586
SNP_P4_177528_5831	NW_004517597.1	Scaffold2729	5831	GG	AA	1947038588
SNP_P4_177529_5848	NW_004517597.1	Scaffold2729	5848	TT	CC	1947038590
SNP_P4_177530_5850	NW_004517597.1	Scaffold2729	5850	GG	AA	1947038592
SNP_P4_177531_5861	NW_004517597.1	Scaffold2729	5861	CC	TT	1947038594
SNP_P4_177533_5927	NW_004517597.1	Scaffold2729	5927	GG	AA	1947038596
SNP_P4_177534_5946	NW_004517597.1	Scaffold2729	5946	GG	AA	1947038598

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_177536_6531	NW_004517597.1	Scaffold2729	6531	AA	GG	1947038602
SNP_P4_177537_6836	NW_004517597.1	Scaffold2729	6836	AA	GG	1947038604
SNP_P4_177538_6838	NW_004517597.1	Scaffold2729	6838	CC	TT	1947038606
SNP_P4_177539_6855	NW_004517597.1	Scaffold2729	6855	TT	GG	1947038608
SNP_P4_177540_6905	NW_004517597.1	Scaffold2729	6905	GG	AA	1947038610
SNP_P4_177541_6922	NW_004517597.1	Scaffold2729	6922	TT	AA	1947038612
SNP_P4_177542_6936	NW_004517597.1	Scaffold2729	6936	GG	AA	1947038614
SNP_P4_177543_7870	NW_004517597.1	Scaffold2729	7870	TT	CC	1947038616
SNP_P4_177544_7911	NW_004517597.1	Scaffold2729	7911	TT	CC	1947038618
SNP_P4_177545_7925	NW_004517597.1	Scaffold2729	7925	TT	AA	1947038620
SNP_P4_177546_7926	NW_004517597.1	Scaffold2729	7926	AA	TT	1947038622
SNP_P4_177547_326	NW_004517601.1	Scaffold2734	326	CC	AA	1947038624
SNP_P4_177548_428	NW_004517601.1	Scaffold2734	428	AA	TT	1947038626
SNP_P4_177549_508	NW_004517601.1	Scaffold2734	508	AA	GG	1947038628
SNP_P4_177551_716	NW_004517601.1	Scaffold2734	716	CC	TT	1947038630
SNP_P4_177552_722	NW_004517601.1	Scaffold2734	722	AA	CC	1947038632
SNP_P4_177553_771	NW_004517601.1	Scaffold2734	771	TT	CC	1947038634
SNP_P4_177554_953	NW_004517601.1	Scaffold2734	953	CC	TT	1947038636
SNP_P4_177555_961	NW_004517601.1	Scaffold2734	961	AA	GG	1947038638
SNP_P4_177556_1046	NW_004517601.1	Scaffold2734	1046	TT	CC	1947038640
SNP_P4_177557_1108	NW_004517601.1	Scaffold2734	1108	CC	GG	1947038642
SNP_P4_177558_1398	NW_004517601.1	Scaffold2734	1398	AA	TT	1947038644
SNP_P4_177559_1431	NW_004517601.1	Scaffold2734	1431	AA	GG	1947038646
SNP_P4_177560_1478	NW_004517601.1	Scaffold2734	1478	AA	CC	1947038648
SNP_P4_177561_1479	NW_004517601.1	Scaffold2734	1479	TT	AA	1947038650
SNP_P4_177562_1482	NW_004517601.1	Scaffold2734	1482	TT	CC	1947038652
SNP_P4_177563_1489	NW_004517601.1	Scaffold2734	1489	CC	TT	1947038654
SNP_P4_177564_13926	NW_004517601.1	Scaffold2734	13926	GG	TT	1947038656
SNP_P4_177565_14064	NW_004517601.1	Scaffold2734	14064	AA	GG	1947038658
SNP_P4_177566_14077	NW_004517601.1	Scaffold2734	14077	CC	TT	1947038659
SNP_P4_177567_57131	NW_004517601.1	Scaffold2734	57131	TT	CC	1947038661
SNP_P4_177568_57198	NW_004517601.1	Scaffold2734	57198	TT	CC	1947038663
SNP_P4_177569_84454	NW_004517601.1	Scaffold2734	84454	AA	GG	1947038665
SNP_P4_177570_84479	NW_004517601.1	Scaffold2734	84479	TT	CC	1947038667
SNP_P4_177571_115167	NW_004517601.1	Scaffold2734	115167	AA	GG	1947038669
SNP_P4_177572_131780	NW_004517601.1	Scaffold2734	131780	TT	AA	1947038671
SNP_P4_177573_3205	NW_004517602.1	Scaffold2736	3205	GG	AA	1947038673
SNP_P4_177574_3336	NW_004517602.1	Scaffold2736	3336	AA	GG	1947038675
SNP_P4_177575_3424	NW_004517602.1	Scaffold2736	3424	TT	GG	1947038677
SNP_P4_177577_3645	NW_004517602.1	Scaffold2736	3645	AA	GG	1947038679
SNP_P4_177578_3659	NW_004517602.1	Scaffold2736	3659	AA	GG	1947038681

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_177581_3817	NW_004517602.1	Scaffold2736	3817	GG	TT	1947038687
SNP_P4_177582_3848	NW_004517602.1	Scaffold2736	3848	CC	TT	1947038689
SNP_P4_177583_3945	NW_004517602.1	Scaffold2736	3945	TT	CC	1947038691
SNP_P4_177584_4193	NW_004517602.1	Scaffold2736	4193	CC	TT	1947038693
SNP_P4_177585_4287	NW_004517602.1	Scaffold2736	4287	TT	CC	1947038695
SNP_P4_177586_4298	NW_004517602.1	Scaffold2736	4298	CC	TT	1947038697
SNP_P4_177587_4350	NW_004517602.1	Scaffold2736	4350	CC	GG	1947038699
SNP_P4_177588_6234	NW_004517602.1	Scaffold2736	6234	TT	CC	1947038701
SNP_P4_177589_3413	NW_004517603.1	Scaffold2737	3413	TT	CC	1947038703
SNP_P4_177590_3466	NW_004517603.1	Scaffold2737	3466	CC	TT	1947038705
SNP_P4_177591_3467	NW_004517603.1	Scaffold2737	3467	AA	TT	1947038707
SNP_P4_177592_3641	NW_004517603.1	Scaffold2737	3641	AA	GG	1947038709
SNP_P4_177593_3913	NW_004517603.1	Scaffold2737	3913	AA	GG	1947038711
SNP_P4_177594_4167	NW_004517603.1	Scaffold2737	4167	TT	AA	1947038713
SNP_P4_177595_7223	NW_004517603.1	Scaffold2737	7223	CC	TT	1947038715
SNP_P4_177596_7239	NW_004517603.1	Scaffold2737	7239	TT	CC	1947038716
SNP_P4_177597_8946	NW_004517603.1	Scaffold2737	8946	TT	AA	1947038718
SNP_P4_177598_9009	NW_004517603.1	Scaffold2737	9009	AA	TT	1947038720
SNP_P4_177599_9085	NW_004517603.1	Scaffold2737	9085	TT	AA	1947038722
SNP_P4_177600_9117	NW_004517603.1	Scaffold2737	9117	TT	AA	1947038724
SNP_P4_177601_9361	NW_004517603.1	Scaffold2737	9361	AA	CC	1947038726
SNP_P4_177603_9544	NW_004517603.1	Scaffold2737	9544	GG	AA	1947038728
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SNP_P4_177605_9731	NW_004517603.1	Scaffold2737	9731	AA	CC	1947038732
SNP_P4_177606_9767	NW_004517603.1	Scaffold2737	9767	GG	TT	1947038734
SNP_P4_177607_5005	NW_004517604.1	Scaffold2738	5005	CC	TT	1947038736
SNP_P4_177609_5260	NW_004517604.1	Scaffold2738	5260	TT	CC	1947038739
SNP_P4_177610_5261	NW_004517604.1	Scaffold2738	5261	AA	TT	1947038741
SNP_P4_177611_5262	NW_004517604.1	Scaffold2738	5262	AA	TT	1947038743
SNP_P4_177612_7951	NW_004517604.1	Scaffold2738	7951	CC	TT	1947038745
SNP_P4_177613_7963	NW_004517604.1	Scaffold2738	7963	TT	CC	1947038747
SNP_P4_177614_8156	NW_004517604.1	Scaffold2738	8156	GG	AA	1947038749
SNP_P4_177615_8257	NW_004517604.1	Scaffold2738	8257	TT	AA	1947038751
SNP_P4_177616_9482	NW_004517604.1	Scaffold2738	9482	AA	GG	1947038753
SNP_P4_177617_9933	NW_004517604.1	Scaffold2738	9933	GG	TT	1947038755
SNP_P4_177618_10126	NW_004517604.1	Scaffold2738	10126	GG	AA	1947038757
SNP_P4_177619_10165	NW_004517604.1	Scaffold2738	10165	TT	CC	1947038759
SNP_P4_177620_10556	NW_004517604.1	Scaffold2738	10556	CC	TT	1947038761
SNP_P4_177621_10598	NW_004517604.1	Scaffold2738	10598	GG	CC	1947038763
SNP_P4_177622_10601	NW_004517604.1	Scaffold2738	10601	AA	TT	1947038765

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_177624_12098	NW_004517604.1	Scaffold2738	12098	AA	GG	1947038769
SNP_P4_177625_26457	NW_004517604.1	Scaffold2738	26457	GG	AA	1947038771
SNP_P4_177626_26580	NW_004517604.1	Scaffold2738	26580	AA	GG	1947038773
SNP_P4_177628_27466	NW_004517604.1	Scaffold2738	27466	TT	CC	1947038775
SNP_P4_177629_27485	NW_004517604.1	Scaffold2738	27485	GG	TT	1947038777
SNP_P4_177631_28886	NW_004517604.1	Scaffold2738	28886	GG	AA	1947038779
SNP_P4_177632_29181	NW_004517604.1	Scaffold2738	29181	GG	AA	1947038781
SNP_P4_177633_29552	NW_004517604.1	Scaffold2738	29552	CC	TT	1947038783
SNP_P4_177634_29827	NW_004517604.1	Scaffold2738	29827	AA	CC	1947038785
SNP_P4_177635_29989	NW_004517604.1	Scaffold2738	29989	GG	AA	1947038787
SNP_P4_177636_30045	NW_004517604.1	Scaffold2738	30045	TT	CC	1947038789
SNP_P4_177637_30089	NW_004517604.1	Scaffold2738	30089	AA	CC	1947038791
SNP_P4_177638_30411	NW_004517604.1	Scaffold2738	30411	AA	GG	1947038793
SNP_P4_177639_30551	NW_004517604.1	Scaffold2738	30551	GG	AA	1947038795
SNP_P4_177642_31732	NW_004517604.1	Scaffold2738	31732	AA	TT	1947038797
SNP_P4_177643_31747	NW_004517604.1	Scaffold2738	31747	AA	GG	1947038799
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SNP_P4_177646_20351	NW_004517605.1	Scaffold2739	20351	CC	AA	1947038805
SNP_P4_177647_20497	NW_004517605.1	Scaffold2739	20497	GG	TT	1947038807
SNP_P4_177648_20504	NW_004517605.1	Scaffold2739	20504	TT	AA	1947038809
SNP_P4_177649_20510	NW_004517605.1	Scaffold2739	20510	CC	AA	1947038811
SNP_P4_177650_21450	NW_004517605.1	Scaffold2739	21450	CC	TT	1947038813
SNP_P4_177651_21480	NW_004517605.1	Scaffold2739	21480	AA	CC	1947038815
SNP_P4_177652_21534	NW_004517605.1	Scaffold2739	21534	TT	GG	1947038818
SNP_P4_177653_21647	NW_004517605.1	Scaffold2739	21647	TT	GG	1947038820
SNP_P4_177654_21979	NW_004517605.1	Scaffold2739	21979	AA	TT	1947038822
SNP_P4_177655_22155	NW_004517605.1	Scaffold2739	22155	GG	AA	1947038824
SNP_P4_177656_21629	NW_004517606.1	Scaffold2741	21629	GG	AA	1947038826
SNP_P4_177657_4244	NW_004517607.1	Scaffold2742	4244	AA	GG	1947038828
SNP_P4_177658_4448	NW_004517607.1	Scaffold2742	4448	AA	TT	1947038830
SNP_P4_177659_4919	NW_004517607.1	Scaffold2742	4919	CC	AA	1947038832
SNP_P4_177660_17603	NW_004517607.1	Scaffold2742	17603	TT	CC	1947038834
SNP_P4_177661_17622	NW_004517607.1	Scaffold2742	17622	AA	GG	1947038836
SNP_P4_177662_17779	NW_004517607.1	Scaffold2742	17779	TT	CC	1947038838
SNP_P4_177663_18259	NW_004517607.1	Scaffold2742	18259	GG	AA	1947038840
SNP_P4_177664_1267	NW_004517608.1	Scaffold2743	1267	TT	GG	1947038842
SNP_P4_177665_1292	NW_004517608.1	Scaffold2743	1292	AA	GG	1947038844
SNP_P4_177666_2882	NW_004517609.1	Scaffold2744	2882	AA	GG	1947038846
SNP_P4_177667_3177	NW_004517609.1	Scaffold2744	3177	TT	CC	1947038848
SNP_P4_177668_3677	NW_004517609.1	Scaffold2744	3677	GG	AA	1947038850

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_177670_3692	NW_004517609.1	Scaffold2744	3692	CC	TT	1947038854
SNP_P4_177671_3713	NW_004517609.1	Scaffold2744	3713	CC	TT	1947038856
SNP_P4_177672_17747	NW_004517609.1	Scaffold2744	17747	AA	CC	1947038858
SNP_P4_177673_23413	NW_004517609.1	Scaffold2744	23413	AA	TT	1947038860
SNP_P4_177674_28225	NW_004517609.1	Scaffold2744	28225	AA	GG	1947038862
SNP_P4_177675_28300	NW_004517609.1	Scaffold2744	28300	CC	TT	1947038864
SNP_P4_177676_30757	NW_004517609.1	Scaffold2744	30757	GG	AA	1947038866
SNP_P4_177677_30760	NW_004517609.1	Scaffold2744	30760	CC	TT	1947038868
SNP_P4_177678_30769	NW_004517609.1	Scaffold2744	30769	TT	CC	1947038870
SNP_P4_177679_30787	NW_004517609.1	Scaffold2744	30787	CC	TT	1947038872
SNP_P4_177680_30793	NW_004517609.1	Scaffold2744	30793	CC	AA	1947038874
SNP_P4_177681_30820	NW_004517609.1	Scaffold2744	30820	AA	GG	1947038876
SNP_P4_177682_31090	NW_004517609.1	Scaffold2744	31090	TT	CC	1947038878
SNP_P4_177683_31117	NW_004517609.1	Scaffold2744	31117	GG	AA	1947038880
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SNP_P4_177685_31153	NW_004517609.1	Scaffold2744	31153	TT	CC	1947038884
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SNP_P4_177688_31165	NW_004517609.1	Scaffold2744	31165	TT	CC	1947038891
SNP_P4_177689_31177	NW_004517609.1	Scaffold2744	31177	AA	GG	1947038893
SNP_P4_177690_31183	NW_004517609.1	Scaffold2744	31183	GG	AA	1947038895
SNP_P4_177691_31213	NW_004517609.1	Scaffold2744	31213	TT	CC	1947038897
SNP_P4_177692_31222	NW_004517609.1	Scaffold2744	31222	CC	TT	1947038899
SNP_P4_177693_31240	NW_004517609.1	Scaffold2744	31240	AA	TT	1947038901
SNP_P4_177694_31261	NW_004517609.1	Scaffold2744	31261	AA	CC	1947038903
SNP_P4_177695_32734	NW_004517609.1	Scaffold2744	32734	CC	AA	1947038905
SNP_P4_177696_37004	NW_004517609.1	Scaffold2744	37004	GG	AA	1947038907
SNP_P4_177697_41998	NW_004517609.1	Scaffold2744	41998	TT	CC	1947038909
SNP_P4_177698_42005	NW_004517609.1	Scaffold2744	42005	TT	CC	1947038911
SNP_P4_177699_42032	NW_004517609.1	Scaffold2744	42032	CC	AA	1947038913
SNP_P4_177700_42039	NW_004517609.1	Scaffold2744	42039	CC	AA	1947038915
SNP_P4_177701_42046	NW_004517609.1	Scaffold2744	42046	CC	AA	1947038917
SNP_P4_177702_42048	NW_004517609.1	Scaffold2744	42048	CC	TT	1947038919
SNP_P4_177703_42086	NW_004517609.1	Scaffold2744	42086	AA	CC	1947038921
SNP_P4_177704_42109	NW_004517609.1	Scaffold2744	42109	CC	GG	1947038923
SNP_P4_177705_42131	NW_004517609.1	Scaffold2744	42131	AA	GG	1947038925
SNP_P4_177706_42312	NW_004517609.1	Scaffold2744	42312	CC	AA	1947038927
SNP_P4_177707_42405	NW_004517609.1	Scaffold2744	42405	TT	CC	1947038929
SNP_P4_177708_42406	NW_004517609.1	Scaffold2744	42406	CC	TT	1947038931
SNP_P4_177709_42408	NW_004517609.1	Scaffold2744	42408	CC	TT	1947038933
SNP_P4_177710_42418	NW_004517609.1	Scaffold2744	42418	TT	AA	1947038935

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_177713_65536	NW_004517609.1	Scaffold2744	65536	TT	GG	1947038939
SNP_P4_177714_88494	NW_004517609.1	Scaffold2744	88494	CC	GG	1947038940
SNP_P4_177715_88918	NW_004517609.1	Scaffold2744	88918	TT	GG	1947038942
SNP_P4_177716_90280	NW_004517609.1	Scaffold2744	90280	GG	TT	1947038944
SNP_P4_177717_92938	NW_004517609.1	Scaffold2744	92938	AA	GG	1947038946
SNP_P4_177718_341	NW_004517611.1	Scaffold2746	341	GG	TT	1947038948
SNP_P4_177719_353	NW_004517611.1	Scaffold2746	353	CC	GG	1947038950
SNP_P4_177720_427	NW_004517611.1	Scaffold2746	427	TT	GG	1947038952
SNP_P4_177721_464	NW_004517611.1	Scaffold2746	464	GG	TT	1947038954
SNP_P4_177722_544	NW_004517611.1	Scaffold2746	544	CC	TT	1947038956
SNP_P4_177723_711	NW_004517613.1	Scaffold2748	711	AA	GG	1947038958
SNP_P4_177724_1237	NW_004517613.1	Scaffold2748	1237	AA	GG	1947038960
SNP_P4_177725_19864	NW_004517613.1	Scaffold2748	19864	GG	AA	1947038962
SNP_P4_177726_19884	NW_004517613.1	Scaffold2748	19884	GG	CC	1947038964
SNP_P4_177727_20447	NW_004517613.1	Scaffold2748	20447	AA	TT	1947038966
SNP_P4_177728_20515	NW_004517613.1	Scaffold2748	20515	TT	CC	1947038968
SNP_P4_177729_22100	NW_004517613.1	Scaffold2748	22100	TT	GG	1947038970
SNP_P4_177730_22724	NW_004517613.1	Scaffold2748	22724	AA	TT	1947038972
SNP_P4_177731_23219	NW_004517613.1	Scaffold2748	23219	AA	TT	1947038974
SNP_P4_177732_23620	NW_004517613.1	Scaffold2748	23620	TT	GG	1947038976
SNP_P4_177733_23765	NW_004517613.1	Scaffold2748	23765	AA	GG	1947038978
SNP_P4_177734_23959	NW_004517613.1	Scaffold2748	23959	GG	AA	1947038980
SNP_P4_177735_24316	NW_004517613.1	Scaffold2748	24316	TT	CC	1947038982
SNP_P4_177736_24518	NW_004517613.1	Scaffold2748	24518	CC	TT	1947038984
SNP_P4_177737_24582	NW_004517613.1	Scaffold2748	24582	GG	TT	1947038986
SNP_P4_177738_24803	NW_004517613.1	Scaffold2748	24803	AA	TT	1947038988
SNP_P4_177739_24982	NW_004517613.1	Scaffold2748	24982	TT	GG	1947038990
SNP_P4_177740_25063	NW_004517613.1	Scaffold2748	25063	AA	TT	1947038992
SNP_P4_177741_25098	NW_004517613.1	Scaffold2748	25098	GG	CC	1947038994
SNP_P4_177742_26678	NW_004517613.1	Scaffold2748	26678	GG	CC	1947038996
SNP_P4_177743_26841	NW_004517613.1	Scaffold2748	26841	CC	GG	1947038998
SNP_P4_177744_27677	NW_004517613.1	Scaffold2748	27677	CC	AA	1947039000
SNP_P4_177746_27893	NW_004517613.1	Scaffold2748	27893	TT	CC	1947039002
SNP_P4_177747_3610	NW_004517615.1	Scaffold2751	3610	TT	CC	1947039004
SNP_P4_177748_3777	NW_004517615.1	Scaffold2751	3777	AA	TT	1947039006
SNP_P4_177749_4423	NW_004517619.1	Scaffold2758	4423	AA	GG	1947039008
SNP_P4_177750_1563	NW_004517621.1	Scaffold2761	1563	GG	AA	1947039010
SNP_P4_177751_6427	NW_004517621.1	Scaffold2761	6427	CC	GG	1947039012
SNP_P4_177752_6686	NW_004517621.1	Scaffold2761	6686	AA	GG	1947039014
SNP_P4_177753_6718	NW_004517621.1	Scaffold2761	6718	CC	TT	1947039016
SNP_P4_177754_10903	NW_004517621.1	Scaffold2761	10903	TT	CC	1947039017

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_177756_367	NW_004517623.1	Scaffold2763	367	TT	CC	1947039019
SNP_P4_177757_808	NW_004517623.1	Scaffold2763	808	GG	CC	1947039020
SNP_P4_177758_9481	NW_004517623.1	Scaffold2763	9481	AA	GG	1947039022
SNP_P4_177760_9771	NW_004517623.1	Scaffold2763	9771	TT	GG	1947039024
SNP_P4_177761_44233	NW_004517623.1	Scaffold2763	44233	TT	CC	1947039026
SNP_P4_177762_54950	NW_004517623.1	Scaffold2763	54950	GG	AA	1947039028
SNP_P4_177764_59395	NW_004517623.1	Scaffold2763	59395	GG	AA	1947039030
SNP_P4_177765_74897	NW_004517623.1	Scaffold2763	74897	CC	AA	1947039032
SNP_P4_177766_74909	NW_004517623.1	Scaffold2763	74909	AA	GG	1947039034
SNP_P4_177768_86675	NW_004517623.1	Scaffold2763	86675	TT	AA	1947039036
SNP_P4_177769_98146	NW_004517623.1	Scaffold2763	98146	TT	CC	1947039038
SNP_P4_177770_103284	NW_004517623.1	Scaffold2763	103284	TT	CC	1947039040
SNP_P4_177771_121585	NW_004517623.1	Scaffold2763	121585	GG	AA	1947039042
SNP_P4_177774_145496	NW_004517623.1	Scaffold2763	145496	TT	CC	1947039044
SNP_P4_177775_145847	NW_004517623.1	Scaffold2763	145847	GG	CC	1947039046
SNP_P4_177776_152832	NW_004517623.1	Scaffold2763	152832	GG	TT	1947039048
SNP_P4_177777_171263	NW_004517623.1	Scaffold2763	171263	AA	CC	1947039050
SNP_P4_177778_171264	NW_004517623.1	Scaffold2763	171264	AA	GG	1947039052
SNP_P4_177780_189438	NW_004517623.1	Scaffold2763	189438	AA	GG	1947039054
SNP_P4_177782_205946	NW_004517623.1	Scaffold2763	205946	CC	TT	1947039056
SNP_P4_177783_207327	NW_004517623.1	Scaffold2763	207327	TT	GG	1947039058
SNP_P4_177784_207473	NW_004517623.1	Scaffold2763	207473	TT	CC	1947039060
SNP_P4_177785_442	NW_004517624.1	Scaffold2764	442	GG	AA	1947039062
SNP_P4_177786_453	NW_004517624.1	Scaffold2764	453	GG	AA	1947039063
SNP_P4_177787_3234	NW_004517624.1	Scaffold2764	3234	AA	TT	1947039065
SNP_P4_177788_405	NW_004517625.1	Scaffold2766	405	GG	AA	1947039067
SNP_P4_177789_12593	NW_004517625.1	Scaffold2766	12593	AA	TT	1947039070
SNP_P4_177790_13215	NW_004517625.1	Scaffold2766	13215	AA	GG	1947039072
SNP_P4_177791_13472	NW_004517625.1	Scaffold2766	13472	TT	GG	1947039074
SNP_P4_177792_13496	NW_004517625.1	Scaffold2766	13496	AA	GG	1947039076
SNP_P4_177793_13511	NW_004517625.1	Scaffold2766	13511	GG	AA	1947039078
SNP_P4_177794_17970	NW_004517625.1	Scaffold2766	17970	CC	AA	1947039080
SNP_P4_177795_18842	NW_004517625.1	Scaffold2766	18842	CC	TT	1947039082
SNP_P4_177796_547	NW_004517626.1	Scaffold2769	547	TT	CC	1947039084
SNP_P4_177797_977	NW_004517627.1	Scaffold2770	977	CC	TT	1947039086
SNP_P4_177798_1762	NW_004517631.1	Scaffold2777	1762	CC	TT	1947039088
SNP_P4_177799_2062	NW_004517631.1	Scaffold2777	2062	GG	AA	1947039090
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SNP_P4_177802_2827	NW_004517631.1	Scaffold2777	2827	TT	CC	1947039094
SNP_P4_177804_4487	NW_004517631.1	Scaffold2777	4487	AA	TT	1947039096
SNP_P4_177805_5023	NW_004517631.1	Scaffold2777	5023	TT	AA	1947039098

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_177808_5943	NW_004517631.1	Scaffold2777	5943	TT	CC	1947039102
SNP_P4_177809_81	NW_004517632.1	Scaffold2778	81	AA	CC	1947039104
SNP_P4_177810_84	NW_004517632.1	Scaffold2778	84	AA	GG	1947039106
SNP_P4_177811_93	NW_004517632.1	Scaffold2778	93	CC	TT	1947039109
SNP_P4_177812_3316	NW_004517632.1	Scaffold2778	3316	AA	GG	1947039111
SNP_P4_177813_3426	NW_004517632.1	Scaffold2778	3426	TT	AA	1947039113
SNP_P4_177814_4249	NW_004517632.1	Scaffold2778	4249	GG	AA	1947039115
SNP_P4_177815_5341	NW_004517632.1	Scaffold2778	5341	GG	TT	1947039117
SNP_P4_177816_5366	NW_004517632.1	Scaffold2778	5366	GG	AA	1947039119
SNP_P4_177817_6633	NW_004517632.1	Scaffold2778	6633	CC	GG	1947039121
SNP_P4_177818_6901	NW_004517632.1	Scaffold2778	6901	CC	TT	1947039123
SNP_P4_177819_6912	NW_004517632.1	Scaffold2778	6912	AA	TT	1947039125
SNP_P4_177820_7036	NW_004517632.1	Scaffold2778	7036	GG	CC	1947039127
SNP_P4_177821_7140	NW_004517632.1	Scaffold2778	7140	AA	TT	1947039129
SNP_P4_177822_7239	NW_004517632.1	Scaffold2778	7239	TT	CC	1947039131
SNP_P4_177823_7252	NW_004517632.1	Scaffold2778	7252	TT	GG	1947039133
SNP_P4_177824_7349	NW_004517632.1	Scaffold2778	7349	GG	AA	1947039136
SNP_P4_177825_7419	NW_004517632.1	Scaffold2778	7419	CC	TT	1947039138
SNP_P4_177826_7514	NW_004517632.1	Scaffold2778	7514	CC	TT	1947039140
SNP_P4_177827_7732	NW_004517632.1	Scaffold2778	7732	TT	CC	1947039142
SNP_P4_177828_11027	NW_004517632.1	Scaffold2778	11027	AA	CC	1947039144
SNP_P4_177829_11082	NW_004517632.1	Scaffold2778	11082	TT	CC	1947039146
SNP_P4_177830_11302	NW_004517632.1	Scaffold2778	11302	CC	AA	1947039148
SNP_P4_177831_11364	NW_004517632.1	Scaffold2778	11364	AA	TT	1947039150
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SNP_P4_177833_11369	NW_004517632.1	Scaffold2778	11369	TT	CC	1947039152
SNP_P4_177834_11391	NW_004517632.1	Scaffold2778	11391	TT	AA	1947039153
SNP_P4_177835_11610	NW_004517632.1	Scaffold2778	11610	AA	GG	1947039154
SNP_P4_177836_11957	NW_004517632.1	Scaffold2778	11957	TT	CC	1947039155
SNP_P4_177837_12656	NW_004517632.1	Scaffold2778	12656	AA	GG	1947039156
SNP_P4_177838_12751	NW_004517632.1	Scaffold2778	12751	AA	TT	1947039157
SNP_P4_177839_12759	NW_004517632.1	Scaffold2778	12759	CC	AA	1947039158
SNP_P4_177840_1882	NW_004517633.1	Scaffold2779	1882	TT	AA	1947039160
SNP_P4_177841_1909	NW_004517633.1	Scaffold2779	1909	GG	AA	1947039162
SNP_P4_177842_1957	NW_004517633.1	Scaffold2779	1957	TT	AA	1947039164
SNP_P4_177843_1986	NW_004517633.1	Scaffold2779	1986	AA	TT	1947039166
SNP_P4_177844_2408	NW_004517633.1	Scaffold2779	2408	AA	GG	1947039168
SNP_P4_177845_2440	NW_004517633.1	Scaffold2779	2440	AA	TT	1947039170
SNP_P4_177846_6222	NW_004517633.1	Scaffold2779	6222	CC	TT	1947039172
SNP_P4_177847_6273	NW_004517633.1	Scaffold2779	6273	GG	AA	1947039174
SNP_P4_177848_6429	NW_004517633.1	Scaffold2779	6429	GG	AA	1947039176

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_177852_7071	NW_004517633.1	Scaffold2779	7071	GG	TT	1947039180
SNP_P4_177853_9376	NW_004517633.1	Scaffold2779	9376	TT	GG	1947039183
SNP_P4_177854_9410	NW_004517633.1	Scaffold2779	9410	TT	CC	1947039185
SNP_P4_177855_9625	NW_004517633.1	Scaffold2779	9625	TT	AA	1947039187
SNP_P4_177856_9631	NW_004517633.1	Scaffold2779	9631	AA	TT	1947039189
SNP_P4_177857_9704	NW_004517633.1	Scaffold2779	9704	AA	GG	1947039191
SNP_P4_177858_10382	NW_004517633.1	Scaffold2779	10382	TT	GG	1947039193
SNP_P4_177859_11285	NW_004517633.1	Scaffold2779	11285	GG	AA	1947039195
SNP_P4_177860_17539	NW_004517633.1	Scaffold2779	17539	AA	GG	1947039197
SNP_P4_177861_17725	NW_004517633.1	Scaffold2779	17725	TT	CC	1947039199
SNP_P4_177862_17823	NW_004517633.1	Scaffold2779	17823	TT	CC	1947039201
SNP_P4_177863_17835	NW_004517633.1	Scaffold2779	17835	TT	CC	1947039203
SNP_P4_177864_17892	NW_004517633.1	Scaffold2779	17892	GG	TT	1947039205
SNP_P4_177865_17983	NW_004517633.1	Scaffold2779	17983	GG	TT	1947039207
SNP_P4_177866_18126	NW_004517633.1	Scaffold2779	18126	TT	AA	1947039209
SNP_P4_177867_18227	NW_004517633.1	Scaffold2779	18227	TT	CC	1947039211
SNP_P4_177868_22199	NW_004517633.1	Scaffold2779	22199	CC	TT	1947039213
SNP_P4_177869_22683	NW_004517633.1	Scaffold2779	22683	GG	AA	1947039215
SNP_P4_177871_1465	NW_004517634.1	Scaffold2780	1465	CC	TT	1947039217
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SNP_P4_177877_4666	NW_004517635.1	Scaffold2782	4666	GG	CC	1947039229
SNP_P4_177878_4719	NW_004517635.1	Scaffold2782	4719	CC	GG	1947039231
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SNP_P4_177891_7392	NW_004517635.1	Scaffold2782	7392	CC	GG	1947039255
SNP_P4_177892_8467	NW_004517635.1	Scaffold2782	8467	AA	TT	1947039257
SNP_P4_177893_8592	NW_004517635.1	Scaffold2782	8592	GG	TT	1947039259
SNP_P4_177894_8611	NW_004517635.1	Scaffold2782	8611	CC	AA	1947039261

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_177895_8744	NW_004517635.1	Scaffold2782	8744	CC	AA	1947039263
SNP_P4_177896_8852	NW_004517635.1	Scaffold2782	8852	TT	GG	1947039266
SNP_P4_177897_8866	NW_004517635.1	Scaffold2782	8866	CC	TT	1947039268
SNP_P4_177898_8899	NW_004517635.1	Scaffold2782	8899	CC	TT	1947039270
SNP_P4_177899_8993	NW_004517635.1	Scaffold2782	8993	TT	GG	1947039272
SNP_P4_177900_9093	NW_004517635.1	Scaffold2782	9093	TT	CC	1947039274
SNP_P4_177901_9115	NW_004517635.1	Scaffold2782	9115	GG	AA	1947039276
SNP_P4_177902_10892	NW_004517635.1	Scaffold2782	10892	AA	GG	1947039278
SNP_P4_177903_26084	NW_004517635.1	Scaffold2782	26084	AA	GG	1947039280
SNP_P4_177904_26098	NW_004517635.1	Scaffold2782	26098	TT	CC	1947039282
SNP_P4_177905_26759	NW_004517635.1	Scaffold2782	26759	GG	AA	1947039284
SNP_P4_177906_26904	NW_004517635.1	Scaffold2782	26904	CC	AA	1947039286
SNP_P4_177907_26910	NW_004517635.1	Scaffold2782	26910	TT	AA	1947039288
SNP_P4_177908_26921	NW_004517635.1	Scaffold2782	26921	CC	AA	1947039290
SNP_P4_177909_26939	NW_004517635.1	Scaffold2782	26939	TT	CC	1947039292
SNP_P4_177910_27233	NW_004517635.1	Scaffold2782	27233	GG	CC	1947039294
SNP_P4_177912_27603	NW_004517635.1	Scaffold2782	27603	CC	AA	1947039296
SNP_P4_177913_39878	NW_004517635.1	Scaffold2782	39878	GG	AA	1947039298
SNP_P4_177914_40001	NW_004517635.1	Scaffold2782	40001	CC	TT	1947039300
SNP_P4_177915_40070	NW_004517635.1	Scaffold2782	40070	GG	TT	1947039302
SNP_P4_177916_40115	NW_004517635.1	Scaffold2782	40115	AA	GG	1947039304
SNP_P4_177917_42756	NW_004517635.1	Scaffold2782	42756	CC	TT	1947039306
SNP_P4_177918_50988	NW_004517635.1	Scaffold2782	50988	CC	GG	1947039308
SNP_P4_177919_51008	NW_004517635.1	Scaffold2782	51008	AA	TT	1947039310
SNP_P4_177920_51010	NW_004517635.1	Scaffold2782	51010	TT	AA	1947039312
SNP_P4_177921_51228	NW_004517635.1	Scaffold2782	51228	GG	AA	1947039314
SNP_P4_177922_60292	NW_004517635.1	Scaffold2782	60292	TT	CC	1947039316
SNP_P4_177923_60330	NW_004517635.1	Scaffold2782	60330	CC	AA	1947039318
SNP_P4_177924_60366	NW_004517635.1	Scaffold2782	60366	GG	AA	1947039320
SNP_P4_177925_60579	NW_004517635.1	Scaffold2782	60579	AA	CC	1947039322
SNP_P4_177926_60606	NW_004517635.1	Scaffold2782	60606	GG	AA	1947039324
SNP_P4_177927_67433	NW_004517635.1	Scaffold2782	67433	TT	CC	1947039326
SNP_P4_177928_67444	NW_004517635.1	Scaffold2782	67444	TT	CC	1947039328
SNP_P4_177929_67460	NW_004517635.1	Scaffold2782	67460	CC	AA	1947039330
SNP_P4_177930_67508	NW_004517635.1	Scaffold2782	67508	TT	CC	1947039332
SNP_P4_177931_67839	NW_004517635.1	Scaffold2782	67839	TT	AA	1947039334
SNP_P4_177932_72242	NW_004517635.1	Scaffold2782	72242	TT	CC	1947039336
SNP_P4_177933_72305	NW_004517635.1	Scaffold2782	72305	AA	TT	1947039338
SNP_P4_177934_76006	NW_004517635.1	Scaffold2782	76006	GG	TT	1947039340
SNP_P4_177935_80321	NW_004517635.1	Scaffold2782	80321	CC	TT	1947039342
SNP_P4_177936_80337	NW_004517635.1	Scaffold2782	80337	TT	GG	1947039344
SNP_P4_177937_80414	NW_004517635.1	Scaffold2782	80414	TT	GG	1947039346

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_177939_86348	NW_004517635.1	Scaffold2782	86348	TT	AA	1947039350
SNP_P4_177940_86725	NW_004517635.1	Scaffold2782	86725	TT	GG	1947039352
SNP_P4_177941_86742	NW_004517635.1	Scaffold2782	86742	GG	AA	1947039354
SNP_P4_177942_86946	NW_004517635.1	Scaffold2782	86946	GG	AA	1947039356
SNP_P4_177943_87065	NW_004517635.1	Scaffold2782	87065	TT	CC	1947039358
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SNP_P4_177945_87312	NW_004517635.1	Scaffold2782	87312	TT	AA	1947039362
SNP_P4_177946_87320	NW_004517635.1	Scaffold2782	87320	AA	GG	1947039364
SNP_P4_177947_88118	NW_004517635.1	Scaffold2782	88118	AA	GG	1947039366
SNP_P4_177948_89697	NW_004517635.1	Scaffold2782	89697	GG	AA	1947039368
SNP_P4_177949_89722	NW_004517635.1	Scaffold2782	89722	AA	TT	1947039370
SNP_P4_177950_89736	NW_004517635.1	Scaffold2782	89736	CC	TT	1947039372
SNP_P4_177951_89739	NW_004517635.1	Scaffold2782	89739	AA	TT	1947039374
SNP_P4_177952_89756	NW_004517635.1	Scaffold2782	89756	GG	AA	1947039376
SNP_P4_177953_89762	NW_004517635.1	Scaffold2782	89762	GG	AA	1947039378
SNP_P4_177954_89904	NW_004517635.1	Scaffold2782	89904	AA	CC	1947039380
SNP_P4_177955_90056	NW_004517635.1	Scaffold2782	90056	TT	CC	1947039382
SNP_P4_177956_90065	NW_004517635.1	Scaffold2782	90065	AA	GG	1947039384
SNP_P4_177957_92244	NW_004517635.1	Scaffold2782	92244	GG	AA	1947039387
SNP_P4_177958_105935	NW_004517635.1	Scaffold2782	105935	AA	GG	1947039389
SNP_P4_177959_106025	NW_004517635.1	Scaffold2782	106025	AA	TT	1947039391
SNP_P4_177960_109199	NW_004517635.1	Scaffold2782	109199	TT	CC	1947039393
SNP_P4_177961_109306	NW_004517635.1	Scaffold2782	109306	AA	CC	1947039395
SNP_P4_177962_109421	NW_004517635.1	Scaffold2782	109421	GG	AA	1947039397
SNP_P4_177963_109479	NW_004517635.1	Scaffold2782	109479	TT	GG	1947039399
SNP_P4_177964_109667	NW_004517635.1	Scaffold2782	109667	GG	AA	1947039401
SNP_P4_177965_109693	NW_004517635.1	Scaffold2782	109693	AA	CC	1947039403
SNP_P4_177966_109740	NW_004517635.1	Scaffold2782	109740	CC	AA	1947039405
SNP_P4_177967_109772	NW_004517635.1	Scaffold2782	109772	TT	CC	1947039407
SNP_P4_177968_109920	NW_004517635.1	Scaffold2782	109920	AA	TT	1947039409
SNP_P4_177969_109950	NW_004517635.1	Scaffold2782	109950	CC	AA	1947039411
SNP_P4_177970_110380	NW_004517635.1	Scaffold2782	110380	CC	TT	1947039413
SNP_P4_177971_111796	NW_004517635.1	Scaffold2782	111796	AA	CC	1947039415
SNP_P4_177972_111846	NW_004517635.1	Scaffold2782	111846	AA	GG	1947039417
SNP_P4_177973_111848	NW_004517635.1	Scaffold2782	111848	TT	CC	1947039419
SNP_P4_177974_111852	NW_004517635.1	Scaffold2782	111852	TT	CC	1947039421
SNP_P4_177975_111868	NW_004517635.1	Scaffold2782	111868	GG	TT	1947039423
SNP_P4_177976_111869	NW_004517635.1	Scaffold2782	111869	AA	TT	1947039425
SNP_P4_177977_111903	NW_004517635.1	Scaffold2782	111903	TT	GG	1947039427
SNP_P4_177978_112147	NW_004517635.1	Scaffold2782	112147	GG	TT	1947039429
SNP_P4_177979_112931	NW_004517635.1	Scaffold2782	112931	TT	CC	1947039431

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_177981_112974	NW_004517635.1	Scaffold2782	112974	TT	CC	1947039435
SNP_P4_177982_113242	NW_004517635.1	Scaffold2782	113242	TT	CC	1947039437
SNP_P4_177983_113826	NW_004517635.1	Scaffold2782	113826	AA	GG	1947039439
SNP_P4_177985_10945	NW_004517636.1	Scaffold2783	10945	AA	GG	1947039441
SNP_P4_177986_2447	NW_004517637.1	Scaffold2784	2447	TT	AA	1947039443
SNP_P4_177987_2571	NW_004517637.1	Scaffold2784	2571	AA	CC	1947039445
SNP_P4_177989_2697	NW_004517637.1	Scaffold2784	2697	CC	GG	1947039447
SNP_P4_177990_2723	NW_004517637.1	Scaffold2784	2723	TT	GG	1947039449
SNP_P4_177991_2728	NW_004517637.1	Scaffold2784	2728	CC	TT	1947039451
SNP_P4_177992_2800	NW_004517637.1	Scaffold2784	2800	GG	AA	1947039453
SNP_P4_177993_9748	NW_004517637.1	Scaffold2784	9748	CC	AA	1947039455
SNP_P4_177994_12354	NW_004517637.1	Scaffold2784	12354	TT	CC	1947039457
SNP_P4_177995_14216	NW_004517637.1	Scaffold2784	14216	CC	TT	1947039459
SNP_P4_177996_14275	NW_004517637.1	Scaffold2784	14275	AA	CC	1947039461
SNP_P4_177997_15855	NW_004517637.1	Scaffold2784	15855	AA	TT	1947039463
SNP_P4_177998_1056	NW_004517641.1	Scaffold2790	1056	AA	TT	1947039465
SNP_P4_177999_11221	NW_004517641.1	Scaffold2790	11221	CC	GG	1947039467
SNP_P4_178000_22372	NW_004517641.1	Scaffold2790	22372	GG	TT	1947039469
SNP_P4_178001_2696	NW_004517642.1	Scaffold2792	2696	AA	TT	1947039471
SNP_P4_178002_2890	NW_004517642.1	Scaffold2792	2890	TT	GG	1947039474
SNP_P4_178003_2902	NW_004517642.1	Scaffold2792	2902	AA	TT	1947039476
SNP_P4_178004_2903	NW_004517642.1	Scaffold2792	2903	AA	CC	1947039478
SNP_P4_178005_2943	NW_004517642.1	Scaffold2792	2943	GG	AA	1947039480
SNP_P4_178006_7770	NW_004517642.1	Scaffold2792	7770	GG	TT	1947039482
SNP_P4_178008_13700	NW_004517642.1	Scaffold2792	13700	TT	CC	1947039484
SNP_P4_178009_13901	NW_004517642.1	Scaffold2792	13901	AA	GG	1947039486
SNP_P4_178010_13975	NW_004517642.1	Scaffold2792	13975	AA	GG	1947039488
SNP_P4_178011_14020	NW_004517642.1	Scaffold2792	14020	TT	GG	1947039490
SNP_P4_178012_14070	NW_004517642.1	Scaffold2792	14070	TT	GG	1947039492
SNP_P4_178013_14148	NW_004517642.1	Scaffold2792	14148	TT	CC	1947039494
SNP_P4_178015_14335	NW_004517642.1	Scaffold2792	14335	CC	TT	1947039496
SNP_P4_178016_14427	NW_004517642.1	Scaffold2792	14427	TT	AA	1947039498
SNP_P4_178017_14699	NW_004517642.1	Scaffold2792	14699	CC	GG	1947039500
SNP_P4_178018_14788	NW_004517642.1	Scaffold2792	14788	GG	CC	1947039502
SNP_P4_178019_19548	NW_004517642.1	Scaffold2792	19548	TT	CC	1947039504
SNP_P4_178020_35547	NW_004517642.1	Scaffold2792	35547	TT	AA	1947039506
SNP_P4_178021_1847	NW_004517645.1	Scaffold2795	1847	TT	CC	1947039508
SNP_P4_178022_1869	NW_004517645.1	Scaffold2795	1869	TT	GG	1947039510
SNP_P4_178023_2318	NW_004517645.1	Scaffold2795	2318	CC	AA	1947039512
SNP_P4_178024_2353	NW_004517645.1	Scaffold2795	2353	GG	CC	1947039514
SNP_P4_178025_2882	NW_004517645.1	Scaffold2795	2882	GG	CC	1947039516

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_178027_870	NW_004517648.1	Scaffold2799	870	CC	GG	1947039520
SNP_P4_178028_876	NW_004517648.1	Scaffold2799	876	CC	GG	1947039522
SNP_P4_178029_900	NW_004517648.1	Scaffold2799	900	CC	TT	1947039524
SNP_P4_178030_903	NW_004517648.1	Scaffold2799	903	AA	CC	1947039526
SNP_P4_178031_944	NW_004517648.1	Scaffold2799	944	GG	AA	1947039528
SNP_P4_178032_1059	NW_004517648.1	Scaffold2799	1059	AA	TT	1947039530
SNP_P4_178034_1123	NW_004517648.1	Scaffold2799	1123	TT	AA	1947039532
SNP_P4_178035_8161	NW_004517648.1	Scaffold2799	8161	TT	CC	1947039534
SNP_P4_178036_8181	NW_004517648.1	Scaffold2799	8181	GG	TT	1947039536
SNP_P4_178037_12165	NW_004517648.1	Scaffold2799	12165	CC	TT	1947039538
SNP_P4_178038_23048	NW_004517648.1	Scaffold2799	23048	GG	TT	1947039540
SNP_P4_178039_34729	NW_004517648.1	Scaffold2799	34729	AA	GG	1947039542
SNP_P4_178040_34736	NW_004517648.1	Scaffold2799	34736	CC	TT	1947039544
SNP_P4_178042_39777	NW_004517648.1	Scaffold2799	39777	GG	AA	1947039546
SNP_P4_178043_45911	NW_004517648.1	Scaffold2799	45911	AA	GG	1947039548
SNP_P4_178044_45912	NW_004517648.1	Scaffold2799	45912	AA	GG	1947039550
SNP_P4_178045_45927	NW_004517648.1	Scaffold2799	45927	AA	TT	1947039552
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SNP_P4_178047_45948	NW_004517648.1	Scaffold2799	45948	CC	AA	1947039556
SNP_P4_178048_46020	NW_004517648.1	Scaffold2799	46020	AA	GG	1947039558
SNP_P4_178049_46033	NW_004517648.1	Scaffold2799	46033	AA	GG	1947039561
SNP_P4_178050_46055	NW_004517648.1	Scaffold2799	46055	GG	AA	1947039562
SNP_P4_178051_46062	NW_004517648.1	Scaffold2799	46062	AA	GG	1947039563
SNP_P4_178052_46077	NW_004517648.1	Scaffold2799	46077	AA	GG	1947039564
SNP_P4_178053_46086	NW_004517648.1	Scaffold2799	46086	TT	CC	1947039566
SNP_P4_178054_46326	NW_004517648.1	Scaffold2799	46326	GG	AA	1947039568
SNP_P4_178055_46420	NW_004517648.1	Scaffold2799	46420	CC	TT	1947039570
SNP_P4_178056_64	NW_004517650.1	Scaffold2801	64	AA	CC	1947039572
SNP_P4_178057_81	NW_004517650.1	Scaffold2801	81	TT	CC	1947039574
SNP_P4_178058_1077	NW_004517651.1	Scaffold2802	1077	CC	GG	1947039576
SNP_P4_178059_1084	NW_004517651.1	Scaffold2802	1084	GG	AA	1947039578
SNP_P4_178060_1093	NW_004517651.1	Scaffold2802	1093	GG	AA	1947039580
SNP_P4_178061_526	NW_004517652.1	Scaffold2803	526	CC	AA	1947039582
SNP_P4_178062_1750	NW_004517652.1	Scaffold2803	1750	AA	TT	1947039584
SNP_P4_178064_1986	NW_004517652.1	Scaffold2803	1986	AA	GG	1947039586
SNP_P4_178065_14019	NW_004517652.1	Scaffold2803	14019	AA	TT	1947039588
SNP_P4_178066_14459	NW_004517652.1	Scaffold2803	14459	TT	GG	1947039590
SNP_P4_178067_1874	NW_004517653.1	Scaffold2804	1874	CC	TT	1947039592
SNP_P4_178068_1917	NW_004517653.1	Scaffold2804	1917	TT	CC	1947039594
SNP_P4_178069_9394	NW_004517657.1	Scaffold2812	9394	AA	GG	1947039596
SNP_P4_178070_12240	NW_004517657.1	Scaffold2812	12240	GG	AA	1947039598

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_178074_17100	NW_004517657.1	Scaffold2812	17100	AA	GG	1947039604
SNP_P4_178075_17492	NW_004517657.1	Scaffold2812	17492	GG	CC	1947039607
SNP_P4_178076_18098	NW_004517657.1	Scaffold2812	18098	AA	TT	1947039609
SNP_P4_178077_18408	NW_004517657.1	Scaffold2812	18408	TT	CC	1947039611
SNP_P4_178078_19773	NW_004517657.1	Scaffold2812	19773	TT	GG	1947039613
SNP_P4_178079_20482	NW_004517657.1	Scaffold2812	20482	GG	AA	1947039615
SNP_P4_178080_20494	NW_004517657.1	Scaffold2812	20494	GG	AA	1947039617
SNP_P4_178081_20496	NW_004517657.1	Scaffold2812	20496	CC	AA	1947039619
SNP_P4_178082_20503	NW_004517657.1	Scaffold2812	20503	GG	AA	1947039621
SNP_P4_178083_20529	NW_004517657.1	Scaffold2812	20529	TT	AA	1947039623
SNP_P4_178084_20905	NW_004517657.1	Scaffold2812	20905	TT	CC	1947039625
SNP_P4_178085_21202	NW_004517657.1	Scaffold2812	21202	AA	TT	1947039627
SNP_P4_178086_27327	NW_004517657.1	Scaffold2812	27327	CC	AA	1947039629
SNP_P4_178087_30591	NW_004517657.1	Scaffold2812	30591	CC	AA	1947039631
SNP_P4_178088_37877	NW_004517657.1	Scaffold2812	37877	CC	TT	1947039633
SNP_P4_178089_37919	NW_004517657.1	Scaffold2812	37919	AA	TT	1947039635
SNP_P4_178091_43443	NW_004517657.1	Scaffold2812	43443	GG	AA	1947039637
SNP_P4_178092_45524	NW_004517657.1	Scaffold2812	45524	TT	AA	1947039639
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SNP_P4_178096_52050	NW_004517657.1	Scaffold2812	52050	CC	TT	1947039645
SNP_P4_178097_55684	NW_004517657.1	Scaffold2812	55684	GG	AA	1947039647
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SNP_P4_178100_60636	NW_004517657.1	Scaffold2812	60636	CC	TT	1947039652
SNP_P4_178101_60643	NW_004517657.1	Scaffold2812	60643	GG	AA	1947039654
SNP_P4_178102_60683	NW_004517657.1	Scaffold2812	60683	AA	GG	1947039656
SNP_P4_178103_65862	NW_004517657.1	Scaffold2812	65862	AA	GG	1947039658
SNP_P4_178105_95699	NW_004517657.1	Scaffold2812	95699	TT	GG	1947039660
SNP_P4_178106_95700	NW_004517657.1	Scaffold2812	95700	TT	CC	1947039662
SNP_P4_178107_2877	NW_004517658.1	Scaffold2813	2877	CC	TT	1947039664
SNP_P4_178108_1148	NW_004517659.1	Scaffold2815	1148	AA	TT	1947039666
SNP_P4_178109_1162	NW_004517659.1	Scaffold2815	1162	GG	AA	1947039668
SNP_P4_178110_1167	NW_004517659.1	Scaffold2815	1167	CC	TT	1947039670
SNP_P4_178111_5591	NW_004517659.1	Scaffold2815	5591	CC	TT	1947039672
SNP_P4_178112_28525	NW_004517659.1	Scaffold2815	28525	AA	TT	1947039674
SNP_P4_178113_29618	NW_004517659.1	Scaffold2815	29618	AA	GG	1947039676
SNP_P4_178114_29642	NW_004517659.1	Scaffold2815	29642	AA	GG	1947039678
SNP_P4_178115_29643	NW_004517659.1	Scaffold2815	29643	TT	CC	1947039680
SNP_P4_178116_29644	NW_004517659.1	Scaffold2815	29644	AA	GG	1947039682
SNP_P4_178117_35286	NW_004517659.1	Scaffold2815	35286	CC	AA	1947039684

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_178119_42894	NW_004517659.1	Scaffold2815	42894	GG	CC	1947039688
SNP_P4_178120_70844	NW_004517659.1	Scaffold2815	70844	CC	AA	1947039690
SNP_P4_178121_70895	NW_004517659.1	Scaffold2815	70895	TT	CC	1947039692
SNP_P4_178122_70951	NW_004517659.1	Scaffold2815	70951	GG	AA	1947039694
SNP_P4_178123_70986	NW_004517659.1	Scaffold2815	70986	TT	AA	1947039696
SNP_P4_178124_71066	NW_004517659.1	Scaffold2815	71066	TT	CC	1947039698
SNP_P4_178125_71085	NW_004517659.1	Scaffold2815	71085	AA	CC	1947039700
SNP_P4_178126_71235	NW_004517659.1	Scaffold2815	71235	GG	AA	1947039702
SNP_P4_178127_71241	NW_004517659.1	Scaffold2815	71241	GG	AA	1947039704
SNP_P4_178129_71332	NW_004517659.1	Scaffold2815	71332	TT	GG	1947039706
SNP_P4_178130_71354	NW_004517659.1	Scaffold2815	71354	GG	AA	1947039708
SNP_P4_178131_71399	NW_004517659.1	Scaffold2815	71399	GG	AA	1947039710
SNP_P4_178132_71411	NW_004517659.1	Scaffold2815	71411	TT	CC	1947039712
SNP_P4_178133_71439	NW_004517659.1	Scaffold2815	71439	CC	TT	1947039714
SNP_P4_178134_71533	NW_004517659.1	Scaffold2815	71533	TT	CC	1947039716
SNP_P4_178135_71712	NW_004517659.1	Scaffold2815	71712	TT	CC	1947039718
SNP_P4_178136_71748	NW_004517659.1	Scaffold2815	71748	AA	GG	1947039720
SNP_P4_178137_71767	NW_004517659.1	Scaffold2815	71767	AA	GG	1947039722
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SNP_P4_178139_71846	NW_004517659.1	Scaffold2815	71846	CC	TT	1947039726
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SNP_P4_178141_71955	NW_004517659.1	Scaffold2815	71955	CC	AA	1947039730
SNP_P4_178142_83193	NW_004517659.1	Scaffold2815	83193	GG	AA	1947039732
SNP_P4_178143_495	NW_004517661.1	Scaffold2817	495	CC	AA	1947039734
SNP_P4_178144_508	NW_004517661.1	Scaffold2817	508	CC	TT	1947039736
SNP_P4_178145_882	NW_004517661.1	Scaffold2817	882	GG	AA	1947039738
SNP_P4_178146_895	NW_004517661.1	Scaffold2817	895	AA	GG	1947039740
SNP_P4_178147_926	NW_004517661.1	Scaffold2817	926	AA	GG	1947039742
SNP_P4_178148_959	NW_004517661.1	Scaffold2817	959	AA	GG	1947039744
SNP_P4_178149_966	NW_004517661.1	Scaffold2817	966	TT	CC	1947039746
SNP_P4_178150_11180	NW_004517663.1	Scaffold2819	11180	AA	GG	1947039748
SNP_P4_178151_11263	NW_004517663.1	Scaffold2819	11263	AA	GG	1947039750
SNP_P4_178152_12314	NW_004517663.1	Scaffold2819	12314	AA	GG	1947039752
SNP_P4_178153_12519	NW_004517663.1	Scaffold2819	12519	AA	CC	1947039754
SNP_P4_178154_12539	NW_004517663.1	Scaffold2819	12539	TT	CC	1947039756
SNP_P4_178155_12551	NW_004517663.1	Scaffold2819	12551	TT	AA	1947039758
SNP_P4_178156_12615	NW_004517663.1	Scaffold2819	12615	CC	AA	1947039760
SNP_P4_178157_12655	NW_004517663.1	Scaffold2819	12655	CC	AA	1947039762
SNP_P4_178158_12689	NW_004517663.1	Scaffold2819	12689	TT	CC	1947039764
SNP_P4_178159_12706	NW_004517663.1	Scaffold2819	12706	TT	GG	1947039766
SNP_P4_178160_12825	NW_004517663.1	Scaffold2819	12825	AA	GG	1947039768

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_178162_12935	NW_004517663.1	Scaffold2819	12935	TT	CC	1947039772
SNP_P4_178163_13008	NW_004517663.1	Scaffold2819	13008	GG	AA	1947039774
SNP_P4_178164_13026	NW_004517663.1	Scaffold2819	13026	AA	GG	1947039776
SNP_P4_178165_13082	NW_004517663.1	Scaffold2819	13082	AA	GG	1947039778
SNP_P4_178166_13085	NW_004517663.1	Scaffold2819	13085	AA	TT	1947039780
SNP_P4_178167_13098	NW_004517663.1	Scaffold2819	13098	CC	TT	1947039782
SNP_P4_178168_13126	NW_004517663.1	Scaffold2819	13126	TT	CC	1947039784
SNP_P4_178169_13128	NW_004517663.1	Scaffold2819	13128	GG	AA	1947039786
SNP_P4_178170_18280	NW_004517663.1	Scaffold2819	18280	TT	CC	1947039788
SNP_P4_178171_18468	NW_004517663.1	Scaffold2819	18468	GG	CC	1947039790
SNP_P4_178172_18505	NW_004517663.1	Scaffold2819	18505	AA	GG	1947039792
SNP_P4_178174_18836	NW_004517663.1	Scaffold2819	18836	AA	GG	1947039794
SNP_P4_178175_18917	NW_004517663.1	Scaffold2819	18917	TT	CC	1947039796
SNP_P4_178176_18919	NW_004517663.1	Scaffold2819	18919	AA	GG	1947039798
SNP_P4_178177_6570	NW_004517666.1	Scaffold2823	6570	TT	GG	1947039800
SNP_P4_178178_7240	NW_004517666.1	Scaffold2823	7240	AA	GG	1947039803
SNP_P4_178179_8407	NW_004517666.1	Scaffold2823	8407	TT	GG	1947039805
SNP_P4_178180_8419	NW_004517666.1	Scaffold2823	8419	AA	GG	1947039807
SNP_P4_178182_8637	NW_004517666.1	Scaffold2823	8637	AA	CC	1947039809
SNP_P4_178183_12213	NW_004517666.1	Scaffold2823	12213	TT	CC	1947039811
SNP_P4_178184_12225	NW_004517666.1	Scaffold2823	12225	TT	AA	1947039813
SNP_P4_178185_12238	NW_004517666.1	Scaffold2823	12238	TT	AA	1947039815
SNP_P4_178186_12243	NW_004517666.1	Scaffold2823	12243	AA	TT	1947039817
SNP_P4_178187_12246	NW_004517666.1	Scaffold2823	12246	CC	TT	1947039819
SNP_P4_178188_13351	NW_004517666.1	Scaffold2823	13351	CC	TT	1947039821
SNP_P4_178189_4790	NW_004517667.1	Scaffold2824	4790	TT	AA	1947039823
SNP_P4_178190_5689	NW_004517667.1	Scaffold2824	5689	TT	CC	1947039825
SNP_P4_178191_5691	NW_004517667.1	Scaffold2824	5691	GG	AA	1947039827
SNP_P4_178192_5779	NW_004517667.1	Scaffold2824	5779	CC	AA	1947039829
SNP_P4_178193_5933	NW_004517667.1	Scaffold2824	5933	TT	CC	1947039831
SNP_P4_178194_5936	NW_004517667.1	Scaffold2824	5936	TT	CC	1947039833
SNP_P4_178195_6067	NW_004517667.1	Scaffold2824	6067	GG	AA	1947039835
SNP_P4_178196_6382	NW_004517667.1	Scaffold2824	6382	CC	AA	1947039837
SNP_P4_178197_8952	NW_004517667.1	Scaffold2824	8952	AA	GG	1947039839
SNP_P4_178198_8961	NW_004517667.1	Scaffold2824	8961	TT	AA	1947039841
SNP_P4_178199_998	NW_004517668.1	Scaffold2825	998	AA	TT	1947039843
SNP_P4_178200_9256	NW_004517670.1	Scaffold2829	9256	GG	TT	1947039846
SNP_P4_178201_9608	NW_004517670.1	Scaffold2829	9608	CC	GG	1947039848
SNP_P4_178202_879	NW_004517671.1	Scaffold2831	879	CC	GG	1947039850
SNP_P4_178203_349	NW_004517672.1	Scaffold2833	349	GG	AA	1947039852
SNP_P4_178204_735	NW_004517672.1	Scaffold2833	735	GG	AA	1947039854

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_178207_6784	NW_004517673.1	Scaffold2834	6784	CC	GG	1947039860
SNP_P4_178208_6914	NW_004517673.1	Scaffold2834	6914	TT	CC	1947039862
SNP_P4_178209_6923	NW_004517673.1	Scaffold2834	6923	TT	CC	1947039864
SNP_P4_178210_6938	NW_004517673.1	Scaffold2834	6938	AA	GG	1947039866
SNP_P4_178211_6947	NW_004517673.1	Scaffold2834	6947	AA	TT	1947039868
SNP_P4_178212_7027	NW_004517673.1	Scaffold2834	7027	TT	AA	1947039870
SNP_P4_178213_7030	NW_004517673.1	Scaffold2834	7030	CC	TT	1947039872
SNP_P4_178214_14019	NW_004517673.1	Scaffold2834	14019	GG	AA	1947039874
SNP_P4_178215_14501	NW_004517673.1	Scaffold2834	14501	TT	GG	1947039876
SNP_P4_178216_31142	NW_004517673.1	Scaffold2834	31142	TT	CC	1947039878
SNP_P4_178217_32868	NW_004517673.1	Scaffold2834	32868	CC	TT	1947039880
SNP_P4_178218_188	NW_004517674.1	Scaffold2835	188	AA	CC	1947039882
SNP_P4_178219_2643	NW_004517674.1	Scaffold2835	2643	AA	GG	1947039884
SNP_P4_178220_2676	NW_004517674.1	Scaffold2835	2676	CC	TT	1947039886
SNP_P4_178221_3006	NW_004517674.1	Scaffold2835	3006	AA	GG	1947039888
SNP_P4_178222_3035	NW_004517674.1	Scaffold2835	3035	AA	TT	1947039890
SNP_P4_178223_4583	NW_004517674.1	Scaffold2835	4583	TT	GG	1947039892
SNP_P4_178224_5408	NW_004517674.1	Scaffold2835	5408	TT	CC	1947039894
SNP_P4_178226_5569	NW_004517674.1	Scaffold2835	5569	TT	AA	1947039896
SNP_P4_178227_27884	NW_004517676.1	Scaffold2837	27884	TT	AA	1947039898
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SNP_P4_178230_27924	NW_004517676.1	Scaffold2837	27924	AA	GG	1947039904
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SNP_P4_178236_62397	NW_004517676.1	Scaffold2837	62397	CC	TT	1947039916
SNP_P4_178237_62410	NW_004517676.1	Scaffold2837	62410	AA	GG	1947039918
SNP_P4_178238_62441	NW_004517676.1	Scaffold2837	62441	GG	AA	1947039920
SNP_P4_178239_2569	NW_004517679.1	Scaffold2840	2569	CC	TT	1947039922
SNP_P4_178240_2641	NW_004517679.1	Scaffold2840	2641	CC	GG	1947039924
SNP_P4_178241_716	NW_004517681.1	Scaffold2842	716	CC	AA	1947039926
SNP_P4_178242_981	NW_004517681.1	Scaffold2842	981	GG	TT	1947039928
SNP_P4_178243_1019	NW_004517681.1	Scaffold2842	1019	AA	GG	1947039930
SNP_P4_178245_2991	NW_004517683.1	Scaffold2845	2991	TT	GG	1947039932
SNP_P4_178246_3043	NW_004517683.1	Scaffold2845	3043	AA	TT	1947039934
SNP_P4_178247_3092	NW_004517683.1	Scaffold2845	3092	AA	CC	1947039936
SNP_P4_178248_3298	NW_004517683.1	Scaffold2845	3298	CC	TT	1947039938

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_178253_18140	NW_004517683.1	Scaffold2845	18140	TT	CC	1947039946
SNP_P4_178254_27573	NW_004517683.1	Scaffold2845	27573	CC	TT	1947039948
SNP_P4_178255_950	NW_004517685.1	Scaffold2847	950	GG	AA	1947039950
SNP_P4_178256_3672	NW_004517685.1	Scaffold2847	3672	GG	AA	1947039952
SNP_P4_178257_2505	NW_004517686.1	Scaffold2848	2505	AA	GG	1947039954
SNP_P4_178258_2539	NW_004517686.1	Scaffold2848	2539	CC	TT	1947039956
SNP_P4_178260_16834	NW_004517686.1	Scaffold2848	16834	AA	TT	1947039958
SNP_P4_178261_16845	NW_004517686.1	Scaffold2848	16845	TT	GG	1947039960
SNP_P4_178262_31809	NW_004517686.1	Scaffold2848	31809	AA	GG	1947039963
SNP_P4_178263_34030	NW_004517686.1	Scaffold2848	34030	GG	AA	1947039965
SNP_P4_178264_42487	NW_004517686.1	Scaffold2848	42487	TT	GG	1947039967
SNP_P4_178265_54122	NW_004517686.1	Scaffold2848	54122	TT	AA	1947039969
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SNP_P4_178268_28149	NW_004517687.1	Scaffold2850	28149	AA	TT	1947039975
SNP_P4_178269_28387	NW_004517687.1	Scaffold2850	28387	GG	AA	1947039977
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SNP_P4_178285_9204	NW_004517689.1	Scaffold2852	9204	AA	GG	1947040008
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SNP_P4_178287_19650	NW_004517689.1	Scaffold2852	19650	TT	AA	1947040012
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SNP_P4_178289_5515	NW_004517690.1	Scaffold2853	5515	AA	GG	1947040016
SNP_P4_178290_5517	NW_004517690.1	Scaffold2853	5517	GG	TT	1947040018
SNP_P4_178291_5524	NW_004517690.1	Scaffold2853	5524	GG	TT	1947040020
SNP_P4_178292_5546	NW_004517690.1	Scaffold2853	5546	AA	TT	1947040022
SNP_P4_178294_6636	NW_004517690.1	Scaffold2853	6636	GG	AA	1947040024

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_178298_9754	NW_004517690.1	Scaffold2853	9754	GG	AA	1947040032
SNP_P4_178299_11804	NW_004517690.1	Scaffold2853	11804	GG	TT	1947040034
SNP_P4_178300_12052	NW_004517690.1	Scaffold2853	12052	CC	GG	1947040036
SNP_P4_178302_12104	NW_004517690.1	Scaffold2853	12104	TT	CC	1947040038
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SNP_P4_178305_12202	NW_004517690.1	Scaffold2853	12202	TT	GG	1947040044
SNP_P4_178306_12275	NW_004517690.1	Scaffold2853	12275	GG	TT	1947040046
SNP_P4_178307_12276	NW_004517690.1	Scaffold2853	12276	TT	GG	1947040048
SNP_P4_178308_12349	NW_004517690.1	Scaffold2853	12349	CC	TT	1947040050
SNP_P4_178309_12448	NW_004517690.1	Scaffold2853	12448	CC	TT	1947040052
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SNP_P4_178312_16204	NW_004517690.1	Scaffold2853	16204	GG	AA	1947040058
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SNP_P4_178314_16287	NW_004517690.1	Scaffold2853	16287	AA	GG	1947040062
SNP_P4_178315_16311	NW_004517690.1	Scaffold2853	16311	CC	TT	1947040064
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SNP_P4_178321_16499	NW_004517690.1	Scaffold2853	16499	TT	GG	1947040077
SNP_P4_178322_16541	NW_004517690.1	Scaffold2853	16541	AA	GG	1947040079
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SNP_P4_178324_16795	NW_004517690.1	Scaffold2853	16795	CC	TT	1947040083
SNP_P4_178325_16806	NW_004517690.1	Scaffold2853	16806	AA	CC	1947040085
SNP_P4_178326_16829	NW_004517690.1	Scaffold2853	16829	TT	GG	1947040087
SNP_P4_178327_16869	NW_004517690.1	Scaffold2853	16869	TT	GG	1947040089
SNP_P4_178328_17025	NW_004517690.1	Scaffold2853	17025	TT	CC	1947040091
SNP_P4_178330_17212	NW_004517690.1	Scaffold2853	17212	GG	AA	1947040093
SNP_P4_178331_17268	NW_004517690.1	Scaffold2853	17268	TT	GG	1947040095
SNP_P4_178332_21192	NW_004517690.1	Scaffold2853	21192	CC	TT	1947040097
SNP_P4_178333_21452	NW_004517690.1	Scaffold2853	21452	AA	GG	1947040099
SNP_P4_178334_21576	NW_004517690.1	Scaffold2853	21576	AA	TT	1947040101
SNP_P4_178335_21607	NW_004517690.1	Scaffold2853	21607	AA	TT	1947040103
SNP_P4_178336_25918	NW_004517690.1	Scaffold2853	25918	AA	GG	1947040105
SNP_P4_178337_26028	NW_004517690.1	Scaffold2853	26028	CC	GG	1947040107
SNP_P4_178338_530	NW_004517694.1	Scaffold2859	530	TT	AA	1947040109

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_178339_119	NW_004517695.1	Scaffold2861	119	AA	CC	1947040111
SNP_P4_178340_142	NW_004517695.1	Scaffold2861	142	CC	GG	1947040113
SNP_P4_178341_531	NW_004517695.1	Scaffold2861	531	AA	TT	1947040115
SNP_P4_178342_552	NW_004517695.1	Scaffold2861	552	CC	AA	1947040117
SNP_P4_178343_572	NW_004517695.1	Scaffold2861	572	TT	CC	1947040119
SNP_P4_178344_6069	NW_004517695.1	Scaffold2861	6069	AA	TT	1947040121
SNP_P4_178345_9616	NW_004517695.1	Scaffold2861	9616	TT	CC	1947040123
SNP_P4_178346_1347	NW_004517696.1	Scaffold2863	1347	CC	GG	1947040125
SNP_P4_178347_2212	NW_004517696.1	Scaffold2863	2212	TT	AA	1947040127
SNP_P4_178349_2238	NW_004517696.1	Scaffold2863	2238	TT	AA	1947040129
SNP_P4_178351_2490	NW_004517696.1	Scaffold2863	2490	AA	TT	1947040131
SNP_P4_178352_29991	NW_004517700.1	Scaffold2869	29991	TT	GG	1947040133
SNP_P4_178353_30212	NW_004517700.1	Scaffold2869	30212	GG	AA	1947040135
SNP_P4_178354_30241	NW_004517700.1	Scaffold2869	30241	AA	GG	1947040137
SNP_P4_178355_30725	NW_004517700.1	Scaffold2869	30725	GG	AA	1947040139
SNP_P4_178357_272	NW_004517701.1	Scaffold2870	272	CC	TT	1947040141
SNP_P4_178358_558	NW_004517701.1	Scaffold2870	558	CC	TT	1947040143
SNP_P4_178359_561	NW_004517701.1	Scaffold2870	561	GG	AA	1947040145
SNP_P4_178360_602	NW_004517701.1	Scaffold2870	602	AA	GG	1947040147
SNP_P4_178362_9863	NW_004517702.1	Scaffold2871	9863	CC	TT	1947040149
SNP_P4_178363_12603	NW_004517702.1	Scaffold2871	12603	GG	AA	1947040151
SNP_P4_178364_12615	NW_004517702.1	Scaffold2871	12615	TT	GG	1947040153
SNP_P4_178365_12665	NW_004517702.1	Scaffold2871	12665	CC	AA	1947040155
SNP_P4_178366_23421	NW_004517702.1	Scaffold2871	23421	GG	TT	1947040157
SNP_P4_178367_23422	NW_004517702.1	Scaffold2871	23422	CC	TT	1947040159
SNP_P4_178369_30425	NW_004517702.1	Scaffold2871	30425	TT	CC	1947040161
SNP_P4_178370_34809	NW_004517702.1	Scaffold2871	34809	CC	AA	1947040163
SNP_P4_178371_36703	NW_004517702.1	Scaffold2871	36703	AA	GG	1947040165
SNP_P4_178372_36779	NW_004517702.1	Scaffold2871	36779	AA	GG	1947040167
SNP_P4_178373_38629	NW_004517702.1	Scaffold2871	38629	GG	AA	1947040169
SNP_P4_178374_1876	NW_004517707.1	Scaffold2876	1876	CC	GG	1947040171
SNP_P4_178375_942	NW_004517708.1	Scaffold2878	942	TT	CC	1947040173
SNP_P4_178376_962	NW_004517708.1	Scaffold2878	962	CC	GG	1947040175
SNP_P4_178377_998	NW_004517708.1	Scaffold2878	998	GG	AA	1947040177
SNP_P4_178378_1013	NW_004517708.1	Scaffold2878	1013	CC	GG	1947040179
SNP_P4_178379_59	NW_004517710.1	Scaffold2880	59	TT	GG	1947040181
SNP_P4_178381_6662	NW_004517712.1	Scaffold2882	6662	AA	TT	1947040184
SNP_P4_178382_6665	NW_004517712.1	Scaffold2882	6665	AA	TT	1947040186
SNP_P4_178383_10671	NW_004517712.1	Scaffold2882	10671	TT	CC	1947040188
SNP_P4_178384_13393	NW_004517712.1	Scaffold2882	13393	AA	CC	1947040190
SNP_P4_178385_13398	NW_004517712.1	Scaffold2882	13398	TT	CC	1947040192
SNP_P4_178386_13737	NW_004517712.1	Scaffold2882	13737	CC	AA	1947040194

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_178388_17905	NW_004517712.1	Scaffold2882	17905	AA	GG	1947040198
SNP_P4_178389_26058	NW_004517712.1	Scaffold2882	26058	GG	AA	1947040200
SNP_P4_178390_26072	NW_004517712.1	Scaffold2882	26072	AA	CC	1947040202
SNP_P4_178391_26077	NW_004517712.1	Scaffold2882	26077	TT	CC	1947040204
SNP_P4_178392_26118	NW_004517712.1	Scaffold2882	26118	AA	TT	1947040206
SNP_P4_178393_26135	NW_004517712.1	Scaffold2882	26135	GG	CC	1947040208
SNP_P4_178394_26184	NW_004517712.1	Scaffold2882	26184	CC	AA	1947040210
SNP_P4_178395_26193	NW_004517712.1	Scaffold2882	26193	TT	GG	1947040212
SNP_P4_178396_26194	NW_004517712.1	Scaffold2882	26194	AA	TT	1947040214
SNP_P4_178398_220	NW_004517716.1	Scaffold2886	220	AA	GG	1947040216
SNP_P4_178399_241	NW_004517716.1	Scaffold2886	241	GG	AA	1947040218
SNP_P4_178400_7225	NW_004517717.1	Scaffold2887	7225	TT	CC	1947040220
SNP_P4_178401_7254	NW_004517717.1	Scaffold2887	7254	TT	AA	1947040222
SNP_P4_178402_7255	NW_004517717.1	Scaffold2887	7255	TT	GG	1947040224
SNP_P4_178404_7388	NW_004517717.1	Scaffold2887	7388	AA	TT	1947040226
SNP_P4_178405_7403	NW_004517717.1	Scaffold2887	7403	TT	AA	1947040228
SNP_P4_178406_29971	NW_004517717.1	Scaffold2887	29971	GG	AA	1947040230
SNP_P4_178407_48055	NW_004517717.1	Scaffold2887	48055	AA	GG	1947040232
SNP_P4_178408_48057	NW_004517717.1	Scaffold2887	48057	GG	AA	1947040234
SNP_P4_178409_58762	NW_004517717.1	Scaffold2887	58762	TT	GG	1947040236
SNP_P4_178410_63163	NW_004517717.1	Scaffold2887	63163	GG	TT	1947040238
SNP_P4_178411_3476	NW_004517718.1	Scaffold2888	3476	GG	CC	1947040240
SNP_P4_178412_3512	NW_004517718.1	Scaffold2888	3512	TT	AA	1947040242
SNP_P4_178413_3532	NW_004517718.1	Scaffold2888	3532	AA	GG	1947040244
SNP_P4_178414_3537	NW_004517718.1	Scaffold2888	3537	CC	AA	1947040246
SNP_P4_178415_3538	NW_004517718.1	Scaffold2888	3538	AA	CC	1947040248
SNP_P4_178416_3639	NW_004517718.1	Scaffold2888	3639	TT	CC	1947040250
SNP_P4_178417_5199	NW_004517718.1	Scaffold2888	5199	CC	GG	1947040252
SNP_P4_178418_10381	NW_004517721.1	Scaffold2893	10381	AA	GG	1947040254
SNP_P4_178419_10537	NW_004517721.1	Scaffold2893	10537	CC	TT	1947040256
SNP_P4_178420_10639	NW_004517721.1	Scaffold2893	10639	CC	TT	1947040258
SNP_P4_178421_10667	NW_004517721.1	Scaffold2893	10667	GG	AA	1947040260
SNP_P4_178423_10722	NW_004517721.1	Scaffold2893	10722	AA	GG	1947040262
SNP_P4_178424_10826	NW_004517721.1	Scaffold2893	10826	TT	CC	1947040264
SNP_P4_178426_11820	NW_004517721.1	Scaffold2893	11820	AA	TT	1947040266
SNP_P4_178427_11874	NW_004517721.1	Scaffold2893	11874	AA	GG	1947040268
SNP_P4_178428_13482	NW_004517721.1	Scaffold2893	13482	AA	GG	1947040270
SNP_P4_178429_13628	NW_004517721.1	Scaffold2893	13628	TT	CC	1947040272
SNP_P4_178430_25846	NW_004517721.1	Scaffold2893	25846	CC	GG	1947040274
SNP_P4_178431_25997	NW_004517721.1	Scaffold2893	25997	TT	CC	1947040276
SNP_P4_178432_26026	NW_004517721.1	Scaffold2893	26026	CC	TT	1947040278

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_178434_26057	NW_004517721.1	Scaffold2893	26057	AA	GG	1947040282
SNP_P4_178435_26125	NW_004517721.1	Scaffold2893	26125	GG	AA	1947040284
SNP_P4_178436_26286	NW_004517721.1	Scaffold2893	26286	AA	TT	1947040286
SNP_P4_178437_26344	NW_004517721.1	Scaffold2893	26344	TT	AA	1947040288
SNP_P4_178438_26371	NW_004517721.1	Scaffold2893	26371	GG	AA	1947040290
SNP_P4_178439_26544	NW_004517721.1	Scaffold2893	26544	TT	CC	1947040292
SNP_P4_178440_26582	NW_004517721.1	Scaffold2893	26582	AA	TT	1947040294
SNP_P4_178441_26617	NW_004517721.1	Scaffold2893	26617	CC	AA	1947040296
SNP_P4_178442_26704	NW_004517721.1	Scaffold2893	26704	TT	GG	1947040298
SNP_P4_178443_26892	NW_004517721.1	Scaffold2893	26892	AA	GG	1947040300
SNP_P4_178444_26926	NW_004517721.1	Scaffold2893	26926	CC	AA	1947040302
SNP_P4_178445_26963	NW_004517721.1	Scaffold2893	26963	CC	TT	1947040304
SNP_P4_178446_27176	NW_004517721.1	Scaffold2893	27176	GG	CC	1947040306
SNP_P4_178447_27191	NW_004517721.1	Scaffold2893	27191	GG	TT	1947040309
SNP_P4_178448_27237	NW_004517721.1	Scaffold2893	27237	CC	TT	1947040311
SNP_P4_178449_27316	NW_004517721.1	Scaffold2893	27316	AA	GG	1947040313
SNP_P4_178450_27538	NW_004517721.1	Scaffold2893	27538	TT	CC	1947040315
SNP_P4_178451_27598	NW_004517721.1	Scaffold2893	27598	AA	GG	1947040317
SNP_P4_178452_27708	NW_004517721.1	Scaffold2893	27708	AA	GG	1947040319
SNP_P4_178453_2789	NW_004517723.1	Scaffold2896	2789	AA	GG	1947040321
SNP_P4_178454_21725	NW_004517723.1	Scaffold2896	21725	CC	AA	1947040323
SNP_P4_178455_24925	NW_004517723.1	Scaffold2896	24925	CC	AA	1947040325
SNP_P4_178456_33470	NW_004517723.1	Scaffold2896	33470	TT	GG	1947040327
SNP_P4_178457_33909	NW_004517723.1	Scaffold2896	33909	CC	AA	1947040329
SNP_P4_178458_36313	NW_004517723.1	Scaffold2896	36313	GG	AA	1947040331
SNP_P4_178459_54322	NW_004517723.1	Scaffold2896	54322	CC	AA	1947040333
SNP_P4_178460_1067	NW_004517727.1	Scaffold2900	1067	CC	GG	1947040335
SNP_P4_178461_1455	NW_004517727.1	Scaffold2900	1455	AA	GG	1947040337
SNP_P4_178462_1458	NW_004517727.1	Scaffold2900	1458	GG	CC	1947040339
SNP_P4_178463_1837	NW_004517727.1	Scaffold2900	1837	TT	AA	1947040341
SNP_P4_178464_2036	NW_004517727.1	Scaffold2900	2036	TT	CC	1947040343
SNP_P4_178465_2134	NW_004517727.1	Scaffold2900	2134	GG	CC	1947040346
SNP_P4_178466_5179	NW_004517727.1	Scaffold2900	5179	TT	AA	1947040348
SNP_P4_178467_5298	NW_004517727.1	Scaffold2900	5298	AA	CC	1947040350
SNP_P4_178468_5570	NW_004517727.1	Scaffold2900	5570	CC	TT	1947040352
SNP_P4_178469_7046	NW_004517727.1	Scaffold2900	7046	GG	AA	1947040354
SNP_P4_178470_7155	NW_004517727.1	Scaffold2900	7155	TT	CC	1947040356
SNP_P4_178471_7198	NW_004517727.1	Scaffold2900	7198	TT	CC	1947040358
SNP_P4_178472_7316	NW_004517727.1	Scaffold2900	7316	AA	CC	1947040360
SNP_P4_178473_7429	NW_004517727.1	Scaffold2900	7429	GG	AA	1947040362
SNP_P4_178474_7480	NW_004517727.1	Scaffold2900	7480	CC	AA	1947040364

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_178476_7823	NW_004517727.1	Scaffold2900	7823	GG	TT	1947040368
SNP_P4_178478_8196	NW_004517727.1	Scaffold2900	8196	AA	GG	1947040370
SNP_P4_178479_8214	NW_004517727.1	Scaffold2900	8214	CC	GG	1947040372
SNP_P4_178480_8334	NW_004517727.1	Scaffold2900	8334	TT	CC	1947040374
SNP_P4_178481_9568	NW_004517727.1	Scaffold2900	9568	TT	CC	1947040376
SNP_P4_178482_9570	NW_004517727.1	Scaffold2900	9570	CC	TT	1947040378
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SNP_P4_178484_13360	NW_004517727.1	Scaffold2900	13360	CC	GG	1947040382
SNP_P4_178485_13488	NW_004517727.1	Scaffold2900	13488	GG	TT	1947040384
SNP_P4_178486_4242	NW_004517730.1	Scaffold2904	4242	TT	CC	1947040386
SNP_P4_178487_4258	NW_004517730.1	Scaffold2904	4258	CC	AA	1947040388
SNP_P4_178488_4321	NW_004517730.1	Scaffold2904	4321	CC	TT	1947040390
SNP_P4_178489_4329	NW_004517730.1	Scaffold2904	4329	CC	TT	1947040392
SNP_P4_178490_6007	NW_004517730.1	Scaffold2904	6007	CC	TT	1947040394
SNP_P4_178491_6058	NW_004517730.1	Scaffold2904	6058	AA	GG	1947040396
SNP_P4_178492_6070	NW_004517730.1	Scaffold2904	6070	AA	GG	1947040398
SNP_P4_178493_6129	NW_004517730.1	Scaffold2904	6129	GG	AA	1947040400
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SNP_P4_178495_6150	NW_004517730.1	Scaffold2904	6150	TT	CC	1947040404
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SNP_P4_178497_6164	NW_004517730.1	Scaffold2904	6164	CC	TT	1947040408
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SNP_P4_178505_30837	NW_004517733.1	Scaffold2907	30837	CC	GG	1947040420
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SNP_P4_178507_4021	NW_004517737.1	Scaffold2914	4021	TT	AA	1947040424
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SNP_P4_178509_4300	NW_004517737.1	Scaffold2914	4300	AA	GG	1947040428
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SNP_P4_178511_4318	NW_004517737.1	Scaffold2914	4318	TT	CC	1947040432
SNP_P4_178512_4330	NW_004517737.1	Scaffold2914	4330	TT	GG	1947040434
SNP_P4_178513_4336	NW_004517737.1	Scaffold2914	4336	CC	TT	1947040436
SNP_P4_178514_4352	NW_004517737.1	Scaffold2914	4352	AA	GG	1947040438
SNP_P4_178515_4358	NW_004517737.1	Scaffold2914	4358	AA	GG	1947040440
SNP_P4_178516_4369	NW_004517737.1	Scaffold2914	4369	AA	TT	1947040442
SNP_P4_178517_4381	NW_004517737.1	Scaffold2914	4381	AA	GG	1947040444
SNP_P4_178518_4384	NW_004517737.1	Scaffold2914	4384	AA	GG	1947040446
SNP_P4_178519_4397	NW_004517737.1	Scaffold2914	4397	AA	GG	1947040448

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_178522_4436	NW_004517737.1	Scaffold2914	4436	AA	GG	1947040454
SNP_P4_178523_4459	NW_004517737.1	Scaffold2914	4459	AA	GG	1947040456
SNP_P4_178524_4462	NW_004517737.1	Scaffold2914	4462	AA	GG	1947040458
SNP_P4_178525_4468	NW_004517737.1	Scaffold2914	4468	GG	AA	1947040460
SNP_P4_178526_4473	NW_004517737.1	Scaffold2914	4473	AA	GG	1947040462
SNP_P4_178527_4490	NW_004517737.1	Scaffold2914	4490	AA	CC	1947040464
SNP_P4_178528_4501	NW_004517737.1	Scaffold2914	4501	AA	GG	1947040466
SNP_P4_178529_4748	NW_004517737.1	Scaffold2914	4748	AA	TT	1947040468
SNP_P4_178530_4803	NW_004517737.1	Scaffold2914	4803	AA	GG	1947040470
SNP_P4_178531_4865	NW_004517737.1	Scaffold2914	4865	AA	CC	1947040472
SNP_P4_178533_9439	NW_004517738.1	Scaffold2915	9439	AA	TT	1947040474
SNP_P4_178534_395	NW_004517739.1	Scaffold2916	395	GG	AA	1947040476
SNP_P4_178536_14255	NW_004517739.1	Scaffold2916	14255	GG	AA	1947040478
SNP_P4_178537_14257	NW_004517739.1	Scaffold2916	14257	GG	TT	1947040480
SNP_P4_178538_14258	NW_004517739.1	Scaffold2916	14258	AA	TT	1947040482
SNP_P4_178539_14261	NW_004517739.1	Scaffold2916	14261	AA	CC	1947040484
SNP_P4_178540_14262	NW_004517739.1	Scaffold2916	14262	AA	TT	1947040486
SNP_P4_178541_14263	NW_004517739.1	Scaffold2916	14263	TT	AA	1947040488
SNP_P4_178542_14520	NW_004517739.1	Scaffold2916	14520	GG	AA	1947040491
SNP_P4_178544_15830	NW_004517739.1	Scaffold2916	15830	CC	TT	1947040493
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SNP_P4_178546_16069	NW_004517739.1	Scaffold2916	16069	GG	AA	1947040497
SNP_P4_178547_20828	NW_004517739.1	Scaffold2916	20828	AA	GG	1947040499
SNP_P4_178548_20841	NW_004517739.1	Scaffold2916	20841	TT	CC	1947040501
SNP_P4_178549_20878	NW_004517739.1	Scaffold2916	20878	TT	AA	1947040503
SNP_P4_178550_25772	NW_004517739.1	Scaffold2916	25772	TT	CC	1947040505
SNP_P4_178551_49030	NW_004517739.1	Scaffold2916	49030	GG	AA	1947040507
SNP_P4_178552_181	NW_004517741.1	Scaffold2918	181	CC	AA	1947040509
SNP_P4_178553_194	NW_004517741.1	Scaffold2918	194	AA	TT	1947040511
SNP_P4_178554_8459	NW_004517742.1	Scaffold2919	8459	CC	TT	1947040513
SNP_P4_178555_8695	NW_004517742.1	Scaffold2919	8695	AA	TT	1947040515
SNP_P4_178557_1640	NW_004517744.1	Scaffold2921	1640	CC	TT	1947040516
SNP_P4_178558_1679	NW_004517744.1	Scaffold2921	1679	AA	GG	1947040517
SNP_P4_178559_1811	NW_004517744.1	Scaffold2921	1811	AA	GG	1947040518
SNP_P4_178560_2082	NW_004517744.1	Scaffold2921	2082	AA	GG	1947040519
SNP_P4_178561_7454	NW_004517744.1	Scaffold2921	7454	TT	GG	1947040520
SNP_P4_178562_8710	NW_004517744.1	Scaffold2921	8710	TT	CC	1947040522
SNP_P4_178563_8712	NW_004517744.1	Scaffold2921	8712	CC	TT	1947040524
SNP_P4_178564_8714	NW_004517744.1	Scaffold2921	8714	AA	GG	1947040526
SNP_P4_178565_8720	NW_004517744.1	Scaffold2921	8720	TT	AA	1947040528

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_178566_8931	NW_004517744.1	Scaffold2921	8931	TT	GG	1947040530
SNP_P4_178567_8940	NW_004517744.1	Scaffold2921	8940	AA	GG	1947040532
SNP_P4_178568_8955	NW_004517744.1	Scaffold2921	8955	GG	CC	1947040534
SNP_P4_178569_9260	NW_004517744.1	Scaffold2921	9260	GG	AA	1947040536
SNP_P4_178570_11312	NW_004517744.1	Scaffold2921	11312	TT	CC	1947040538
SNP_P4_178571_11335	NW_004517744.1	Scaffold2921	11335	AA	TT	1947040540
SNP_P4_178572_11405	NW_004517744.1	Scaffold2921	11405	CC	GG	1947040542
SNP_P4_178573_11494	NW_004517744.1	Scaffold2921	11494	CC	TT	1947040544
SNP_P4_178574_56	NW_004517745.1	Scaffold2922	56	CC	AA	1947040546
SNP_P4_178576_2628	NW_004517745.1	Scaffold2922	2628	CC	TT	1947040548
SNP_P4_178577_5335	NW_004517745.1	Scaffold2922	5335	CC	GG	1947040550
SNP_P4_178578_5820	NW_004517745.1	Scaffold2922	5820	TT	GG	1947040552
SNP_P4_178579_5851	NW_004517745.1	Scaffold2922	5851	TT	CC	1947040554
SNP_P4_178580_6585	NW_004517745.1	Scaffold2922	6585	AA	TT	1947040556
SNP_P4_178581_6656	NW_004517745.1	Scaffold2922	6656	GG	AA	1947040558
SNP_P4_178582_6758	NW_004517745.1	Scaffold2922	6758	CC	TT	1947040560
SNP_P4_178583_7102	NW_004517745.1	Scaffold2922	7102	TT	CC	1947040562
SNP_P4_178584_7461	NW_004517745.1	Scaffold2922	7461	TT	CC	1947040564
SNP_P4_178586_7557	NW_004517745.1	Scaffold2922	7557	GG	AA	1947040566
SNP_P4_178587_7584	NW_004517745.1	Scaffold2922	7584	GG	AA	1947040568
SNP_P4_178588_7919	NW_004517745.1	Scaffold2922	7919	GG	AA	1947040570
SNP_P4_178589_8048	NW_004517745.1	Scaffold2922	8048	CC	TT	1947040572
SNP_P4_178590_8142	NW_004517745.1	Scaffold2922	8142	AA	GG	1947040574
SNP_P4_178591_8213	NW_004517745.1	Scaffold2922	8213	TT	CC	1947040576
SNP_P4_178592_8218	NW_004517745.1	Scaffold2922	8218	GG	AA	1947040577
SNP_P4_178594_8407	NW_004517745.1	Scaffold2922	8407	AA	CC	1947040578
SNP_P4_178595_8419	NW_004517745.1	Scaffold2922	8419	CC	TT	1947040580
SNP_P4_178596_8472	NW_004517745.1	Scaffold2922	8472	GG	AA	1947040582
SNP_P4_178597_8492	NW_004517745.1	Scaffold2922	8492	CC	AA	1947040584
SNP_P4_178598_8526	NW_004517745.1	Scaffold2922	8526	CC	AA	1947040586
SNP_P4_178599_8545	NW_004517745.1	Scaffold2922	8545	TT	CC	1947040588
SNP_P4_178600_8566	NW_004517745.1	Scaffold2922	8566	GG	TT	1947040590
SNP_P4_178601_8833	NW_004517745.1	Scaffold2922	8833	AA	TT	1947040592
SNP_P4_178602_8891	NW_004517745.1	Scaffold2922	8891	CC	TT	1947040594
SNP_P4_178603_11353	NW_004517745.1	Scaffold2922	11353	TT	CC	1947040596
SNP_P4_178604_11380	NW_004517745.1	Scaffold2922	11380	GG	AA	1947040598
SNP_P4_178605_11381	NW_004517745.1	Scaffold2922	11381	AA	CC	1947040600
SNP_P4_178606_11430	NW_004517745.1	Scaffold2922	11430	AA	CC	1947040602
SNP_P4_178607_11431	NW_004517745.1	Scaffold2922	11431	GG	AA	1947040604
SNP_P4_178608_13895	NW_004517745.1	Scaffold2922	13895	GG	AA	1947040606
SNP_P4_178609_143	NW_004517746.1	Scaffold2924	143	CC	AA	1947040608
SNP_P4_178610_168	NW_004517746.1	Scaffold2924	168	AA	CC	1947040610

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_178612_476	NW_004517746.1	Scaffold2924	476	AA	GG	1947040614
SNP_P4_178613_918	NW_004517746.1	Scaffold2924	918	TT	CC	1947040616
SNP_P4_178615_8448	NW_004517746.1	Scaffold2924	8448	TT	CC	1947040618
SNP_P4_178617_11736	NW_004517746.1	Scaffold2924	11736	TT	CC	1947040620
SNP_P4_178618_11979	NW_004517746.1	Scaffold2924	11979	AA	TT	1947040622
SNP_P4_178619_12042	NW_004517746.1	Scaffold2924	12042	TT	CC	1947040624
SNP_P4_178620_16071	NW_004517746.1	Scaffold2924	16071	AA	CC	1947040626
SNP_P4_178621_16326	NW_004517746.1	Scaffold2924	16326	CC	AA	1947040628
SNP_P4_178622_16485	NW_004517746.1	Scaffold2924	16485	CC	GG	1947040630
SNP_P4_178623_16592	NW_004517746.1	Scaffold2924	16592	AA	TT	1947040632
SNP_P4_178624_16616	NW_004517746.1	Scaffold2924	16616	TT	CC	1947040634
SNP_P4_178625_16662	NW_004517746.1	Scaffold2924	16662	CC	TT	1947040636
SNP_P4_178626_16675	NW_004517746.1	Scaffold2924	16675	CC	GG	1947040638
SNP_P4_178627_16681	NW_004517746.1	Scaffold2924	16681	GG	AA	1947040640
SNP_P4_178628_16697	NW_004517746.1	Scaffold2924	16697	AA	GG	1947040642
SNP_P4_178629_20688	NW_004517746.1	Scaffold2924	20688	TT	GG	1947040644
SNP_P4_178630_27154	NW_004517746.1	Scaffold2924	27154	CC	TT	1947040646
SNP_P4_178631_395	NW_004517747.1	Scaffold2926	395	TT	GG	1947040648
SNP_P4_178632_1958	NW_004517749.1	Scaffold2928	1958	AA	CC	1947040650
SNP_P4_178633_2171	NW_004517749.1	Scaffold2928	2171	AA	GG	1947040652
SNP_P4_178634_2314	NW_004517749.1	Scaffold2928	2314	CC	TT	1947040654
SNP_P4_178635_2408	NW_004517749.1	Scaffold2928	2408	CC	AA	1947040656
SNP_P4_178636_2672	NW_004517749.1	Scaffold2928	2672	TT	GG	1947040658
SNP_P4_178637_3655	NW_004517749.1	Scaffold2928	3655	AA	GG	1947040660
SNP_P4_178638_7123	NW_004517749.1	Scaffold2928	7123	TT	AA	1947040662
SNP_P4_178639_7126	NW_004517749.1	Scaffold2928	7126	AA	TT	1947040664
SNP_P4_178640_7164	NW_004517749.1	Scaffold2928	7164	TT	AA	1947040666
SNP_P4_178641_7183	NW_004517749.1	Scaffold2928	7183	GG	AA	1947040668
SNP_P4_178642_7189	NW_004517749.1	Scaffold2928	7189	GG	AA	1947040670
SNP_P4_178643_7201	NW_004517749.1	Scaffold2928	7201	CC	TT	1947040672
SNP_P4_178644_7222	NW_004517749.1	Scaffold2928	7222	TT	AA	1947040674
SNP_P4_178645_8127	NW_004517749.1	Scaffold2928	8127	GG	AA	1947040676
SNP_P4_178646_10286	NW_004517749.1	Scaffold2928	10286	CC	TT	1947040678
SNP_P4_178647_10840	NW_004517749.1	Scaffold2928	10840	GG	AA	1947040680
SNP_P4_178648_12924	NW_004517749.1	Scaffold2928	12924	TT	AA	1947040682
SNP_P4_178649_12996	NW_004517749.1	Scaffold2928	12996	GG	CC	1947040684
SNP_P4_178650_13339	NW_004517749.1	Scaffold2928	13339	TT	CC	1947040686
SNP_P4_178651_13353	NW_004517749.1	Scaffold2928	13353	AA	GG	1947040688
SNP_P4_178652_13354	NW_004517749.1	Scaffold2928	13354	TT	GG	1947040690
SNP_P4_178653_16197	NW_004517749.1	Scaffold2928	16197	GG	AA	1947040692
SNP_P4_178654_16246	NW_004517749.1	Scaffold2928	16246	TT	CC	1947040694

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_178656_16740	NW_004517749.1	Scaffold2928	16740	AA	TT	1947040698
SNP_P4_178659_21385	NW_004517749.1	Scaffold2928	21385	TT	CC	1947040700
SNP_P4_178661_22961	NW_004517749.1	Scaffold2928	22961	CC	TT	1947040702
SNP_P4_178662_22984	NW_004517749.1	Scaffold2928	22984	AA	GG	1947040704
SNP_P4_178663_23054	NW_004517749.1	Scaffold2928	23054	AA	TT	1947040706
SNP_P4_178664_23061	NW_004517749.1	Scaffold2928	23061	TT	GG	1947040708
SNP_P4_178665_23156	NW_004517749.1	Scaffold2928	23156	AA	TT	1947040710
SNP_P4_178666_23179	NW_004517749.1	Scaffold2928	23179	GG	CC	1947040712
SNP_P4_178667_23192	NW_004517749.1	Scaffold2928	23192	AA	GG	1947040714
SNP_P4_178668_23349	NW_004517749.1	Scaffold2928	23349	AA	CC	1947040716
SNP_P4_178669_23474	NW_004517749.1	Scaffold2928	23474	TT	AA	1947040718
SNP_P4_178670_23510	NW_004517749.1	Scaffold2928	23510	GG	TT	1947040720
SNP_P4_178671_23520	NW_004517749.1	Scaffold2928	23520	TT	AA	1947040722
SNP_P4_178672_23631	NW_004517749.1	Scaffold2928	23631	AA	CC	1947040724
SNP_P4_178673_23661	NW_004517749.1	Scaffold2928	23661	GG	AA	1947040726
SNP_P4_178675_23739	NW_004517749.1	Scaffold2928	23739	TT	CC	1947040729
SNP_P4_178676_23745	NW_004517749.1	Scaffold2928	23745	TT	CC	1947040731
SNP_P4_178677_23816	NW_004517749.1	Scaffold2928	23816	TT	CC	1947040733
SNP_P4_178678_23839	NW_004517749.1	Scaffold2928	23839	GG	CC	1947040735
SNP_P4_178679_23850	NW_004517749.1	Scaffold2928	23850	GG	CC	1947040737
SNP_P4_178680_23854	NW_004517749.1	Scaffold2928	23854	TT	CC	1947040739
SNP_P4_178681_23880	NW_004517749.1	Scaffold2928	23880	GG	AA	1947040741
SNP_P4_178682_23900	NW_004517749.1	Scaffold2928	23900	TT	CC	1947040743
SNP_P4_178683_23946	NW_004517749.1	Scaffold2928	23946	AA	TT	1947040745
SNP_P4_178684_24034	NW_004517749.1	Scaffold2928	24034	TT	AA	1947040747
SNP_P4_178685_24299	NW_004517749.1	Scaffold2928	24299	GG	TT	1947040749
SNP_P4_178686_24323	NW_004517749.1	Scaffold2928	24323	TT	CC	1947040751
SNP_P4_178687_24401	NW_004517749.1	Scaffold2928	24401	GG	AA	1947040753
SNP_P4_178688_24487	NW_004517749.1	Scaffold2928	24487	AA	GG	1947040755
SNP_P4_178689_24615	NW_004517749.1	Scaffold2928	24615	TT	AA	1947040757
SNP_P4_178690_24661	NW_004517749.1	Scaffold2928	24661	GG	AA	1947040759
SNP_P4_178691_24696	NW_004517749.1	Scaffold2928	24696	GG	TT	1947040761
SNP_P4_178692_24830	NW_004517749.1	Scaffold2928	24830	GG	AA	1947040763
SNP_P4_178693_24912	NW_004517749.1	Scaffold2928	24912	AA	GG	1947040765
SNP_P4_178694_24987	NW_004517749.1	Scaffold2928	24987	AA	TT	1947040767
SNP_P4_178695_25018	NW_004517749.1	Scaffold2928	25018	CC	TT	1947040769
SNP_P4_178696_25023	NW_004517749.1	Scaffold2928	25023	CC	TT	1947040771
SNP_P4_178697_25042	NW_004517749.1	Scaffold2928	25042	AA	CC	1947040773
SNP_P4_178698_25075	NW_004517749.1	Scaffold2928	25075	CC	TT	1947040775
SNP_P4_178699_25091	NW_004517749.1	Scaffold2928	25091	GG	TT	1947040777
SNP_P4_178700_25372	NW_004517749.1	Scaffold2928	25372	CC	AA	1947040779

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_178702_31339	NW_004517749.1	Scaffold2928	31339	TT	CC	1947040783
SNP_P4_178703_31836	NW_004517749.1	Scaffold2928	31836	TT	GG	1947040785
SNP_P4_178704_34696	NW_004517749.1	Scaffold2928	34696	AA	TT	1947040787
SNP_P4_178705_34710	NW_004517749.1	Scaffold2928	34710	GG	TT	1947040789
SNP_P4_178706_34974	NW_004517749.1	Scaffold2928	34974	CC	TT	1947040791
SNP_P4_178708_35223	NW_004517749.1	Scaffold2928	35223	TT	CC	1947040793
SNP_P4_178709_35666	NW_004517749.1	Scaffold2928	35666	AA	GG	1947040795
SNP_P4_178710_37206	NW_004517749.1	Scaffold2928	37206	CC	TT	1947040798
SNP_P4_178711_37725	NW_004517749.1	Scaffold2928	37725	TT	CC	1947040800
SNP_P4_178712_37962	NW_004517749.1	Scaffold2928	37962	GG	TT	1947040802
SNP_P4_178713_38060	NW_004517749.1	Scaffold2928	38060	AA	GG	1947040804
SNP_P4_178714_38891	NW_004517749.1	Scaffold2928	38891	CC	TT	1947040806
SNP_P4_178715_43148	NW_004517749.1	Scaffold2928	43148	GG	CC	1947040808
SNP_P4_178716_43472	NW_004517749.1	Scaffold2928	43472	AA	TT	1947040810
SNP_P4_178717_43818	NW_004517749.1	Scaffold2928	43818	TT	CC	1947040812
SNP_P4_178718_43833	NW_004517749.1	Scaffold2928	43833	GG	TT	1947040814
SNP_P4_178719_43952	NW_004517749.1	Scaffold2928	43952	AA	CC	1947040816
SNP_P4_178720_43982	NW_004517749.1	Scaffold2928	43982	TT	GG	1947040818
SNP_P4_178721_44186	NW_004517749.1	Scaffold2928	44186	CC	TT	1947040820
SNP_P4_178722_44257	NW_004517749.1	Scaffold2928	44257	TT	CC	1947040822
SNP_P4_178723_44402	NW_004517749.1	Scaffold2928	44402	GG	AA	1947040824
SNP_P4_178724_44571	NW_004517749.1	Scaffold2928	44571	GG	AA	1947040826
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SNP_P4_178726_44595	NW_004517749.1	Scaffold2928	44595	AA	GG	1947040830
SNP_P4_178727_44898	NW_004517749.1	Scaffold2928	44898	AA	CC	1947040832
SNP_P4_178728_706	NW_004517750.1	Scaffold2930	706	AA	CC	1947040834
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SNP_P4_178732_10672	NW_004517751.1	Scaffold2931	10672	CC	AA	1947040840
SNP_P4_178733_1869	NW_004517752.1	Scaffold2932	1869	GG	TT	1947040842
SNP_P4_178734_2243	NW_004517752.1	Scaffold2932	2243	GG	CC	1947040844
SNP_P4_178736_2417	NW_004517752.1	Scaffold2932	2417	AA	TT	1947040846
SNP_P4_178737_2665	NW_004517752.1	Scaffold2932	2665	AA	CC	1947040848
SNP_P4_178738_3014	NW_004517752.1	Scaffold2932	3014	GG	AA	1947040850
SNP_P4_178739_3079	NW_004517752.1	Scaffold2932	3079	TT	CC	1947040852
SNP_P4_178740_3139	NW_004517752.1	Scaffold2932	3139	TT	GG	1947040854
SNP_P4_178741_3354	NW_004517752.1	Scaffold2932	3354	AA	TT	1947040856
SNP_P4_178742_3355	NW_004517752.1	Scaffold2932	3355	CC	AA	1947040858
SNP_P4_178743_3364	NW_004517752.1	Scaffold2932	3364	GG	TT	1947040860
SNP_P4_178744_3370	NW_004517752.1	Scaffold2932	3370	TT	CC	1947040862
SNP_P4_178745_3428	NW_004517752.1	Scaffold2932	3428	CC	AA	1947040864

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_178748_3619	NW_004517752.1	Scaffold2932	3619	AA	TT	1947040870
SNP_P4_178749_3770	NW_004517752.1	Scaffold2932	3770	CC	AA	1947040872
SNP_P4_178750_3860	NW_004517752.1	Scaffold2932	3860	TT	CC	1947040874
SNP_P4_178751_3870	NW_004517752.1	Scaffold2932	3870	CC	TT	1947040876
SNP_P4_178752_4128	NW_004517752.1	Scaffold2932	4128	AA	TT	1947040878
SNP_P4_178753_4175	NW_004517752.1	Scaffold2932	4175	TT	AA	1947040880
SNP_P4_178754_4572	NW_004517752.1	Scaffold2932	4572	GG	TT	1947040882
SNP_P4_178755_4594	NW_004517752.1	Scaffold2932	4594	TT	AA	1947040884
SNP_P4_178756_4780	NW_004517752.1	Scaffold2932	4780	TT	AA	1947040886
SNP_P4_178757_4983	NW_004517752.1	Scaffold2932	4983	AA	GG	1947040888
SNP_P4_178758_6371	NW_004517752.1	Scaffold2932	6371	AA	TT	1947040890
SNP_P4_178759_6407	NW_004517752.1	Scaffold2932	6407	CC	AA	1947040892
SNP_P4_178760_6493	NW_004517752.1	Scaffold2932	6493	TT	AA	1947040894
SNP_P4_178761_6538	NW_004517752.1	Scaffold2932	6538	TT	AA	1947040896
SNP_P4_178762_6542	NW_004517752.1	Scaffold2932	6542	CC	TT	1947040898
SNP_P4_178763_6550	NW_004517752.1	Scaffold2932	6550	TT	CC	1947040900
SNP_P4_178764_6681	NW_004517752.1	Scaffold2932	6681	GG	AA	1947040902
SNP_P4_178765_6943	NW_004517752.1	Scaffold2932	6943	AA	TT	1947040904
SNP_P4_178766_7181	NW_004517752.1	Scaffold2932	7181	GG	AA	1947040906
SNP_P4_178767_7235	NW_004517752.1	Scaffold2932	7235	TT	AA	1947040908
SNP_P4_178768_7238	NW_004517752.1	Scaffold2932	7238	AA	CC	1947040910
SNP_P4_178769_7253	NW_004517752.1	Scaffold2932	7253	CC	TT	1947040912
SNP_P4_178770_7264	NW_004517752.1	Scaffold2932	7264	AA	TT	1947040914
SNP_P4_178771_10717	NW_004517752.1	Scaffold2932	10717	AA	TT	1947040916
SNP_P4_178772_10847	NW_004517752.1	Scaffold2932	10847	GG	AA	1947040918
SNP_P4_178773_12605	NW_004517752.1	Scaffold2932	12605	CC	AA	1947040920
SNP_P4_178774_12672	NW_004517752.1	Scaffold2932	12672	AA	CC	1947040922
SNP_P4_178775_12813	NW_004517752.1	Scaffold2932	12813	TT	AA	1947040924
SNP_P4_178776_12835	NW_004517752.1	Scaffold2932	12835	GG	AA	1947040926
SNP_P4_178777_13156	NW_004517752.1	Scaffold2932	13156	TT	CC	1947040928
SNP_P4_178778_16061	NW_004517752.1	Scaffold2932	16061	AA	CC	1947040930
SNP_P4_178779_16745	NW_004517752.1	Scaffold2932	16745	GG	AA	1947040932
SNP_P4_178780_16865	NW_004517752.1	Scaffold2932	16865	CC	AA	1947040934
SNP_P4_178781_16997	NW_004517752.1	Scaffold2932	16997	CC	GG	1947040936
SNP_P4_178782_17009	NW_004517752.1	Scaffold2932	17009	TT	CC	1947040938
SNP_P4_178783_17173	NW_004517752.1	Scaffold2932	17173	AA	TT	1947040940
SNP_P4_178784_18612	NW_004517752.1	Scaffold2932	18612	GG	TT	1947040942
SNP_P4_178786_23195	NW_004517752.1	Scaffold2932	23195	TT	CC	1947040944
SNP_P4_178787_25226	NW_004517752.1	Scaffold2932	25226	AA	GG	1947040946
SNP_P4_178788_25365	NW_004517752.1	Scaffold2932	25365	CC	GG	1947040948

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_178790_136	NW_004517753.1	Scaffold2933	136	AA	GG	1947040952
SNP_P4_178791_423	NW_004517753.1	Scaffold2933	423	TT	CC	1947040954
SNP_P4_178792_1058	NW_004517753.1	Scaffold2933	1058	AA	TT	1947040957
SNP_P4_178793_1102	NW_004517753.1	Scaffold2933	1102	CC	GG	1947040959
SNP_P4_178794_1143	NW_004517753.1	Scaffold2933	1143	TT	GG	1947040961
SNP_P4_178795_1533	NW_004517753.1	Scaffold2933	1533	CC	GG	1947040963
SNP_P4_178796_1535	NW_004517753.1	Scaffold2933	1535	AA	TT	1947040965
SNP_P4_178797_1479	NW_004517754.1	Scaffold2934	1479	TT	GG	1947040967
SNP_P4_178798_1499	NW_004517754.1	Scaffold2934	1499	AA	GG	1947040969
SNP_P4_178800_1744	NW_004517754.1	Scaffold2934	1744	AA	CC	1947040971
SNP_P4_178801_64	NW_004517760.1	Scaffold2940	64	GG	TT	1947040973
SNP_P4_178802_118	NW_004517760.1	Scaffold2940	118	CC	TT	1947040975
SNP_P4_178803_142	NW_004517760.1	Scaffold2940	142	AA	GG	1947040977
SNP_P4_178804_378	NW_004517760.1	Scaffold2940	378	CC	TT	1947040979
SNP_P4_178805_777	NW_004517760.1	Scaffold2940	777	GG	AA	1947040981
SNP_P4_178806_795	NW_004517760.1	Scaffold2940	795	CC	GG	1947040983
SNP_P4_178807_825	NW_004517760.1	Scaffold2940	825	CC	TT	1947040985
SNP_P4_178808_976	NW_004517760.1	Scaffold2940	976	CC	TT	1947040987
SNP_P4_178809_989	NW_004517760.1	Scaffold2940	989	GG	CC	1947040989
SNP_P4_178810_1003	NW_004517760.1	Scaffold2940	1003	TT	CC	1947040991
SNP_P4_178811_1031	NW_004517760.1	Scaffold2940	1031	GG	AA	1947040993
SNP_P4_178812_1039	NW_004517760.1	Scaffold2940	1039	AA	GG	1947040995
SNP_P4_178813_1055	NW_004517760.1	Scaffold2940	1055	TT	AA	1947040997
SNP_P4_178814_1089	NW_004517760.1	Scaffold2940	1089	CC	GG	1947040999
SNP_P4_178815_1100	NW_004517760.1	Scaffold2940	1100	AA	GG	1947041001
SNP_P4_178816_1101	NW_004517760.1	Scaffold2940	1101	TT	CC	1947041003
SNP_P4_178817_1142	NW_004517760.1	Scaffold2940	1142	CC	TT	1947041005
SNP_P4_178819_4621	NW_004517760.1	Scaffold2940	4621	GG	AA	1947041007
SNP_P4_178820_8901	NW_004517760.1	Scaffold2940	8901	CC	TT	1947041009
SNP_P4_178821_24237	NW_004517760.1	Scaffold2940	24237	AA	CC	1947041011
SNP_P4_178822_25438	NW_004517760.1	Scaffold2940	25438	TT	AA	1947041013
SNP_P4_178823_25499	NW_004517760.1	Scaffold2940	25499	TT	GG	1947041015
SNP_P4_178824_7864	NW_004517763.1	Scaffold2946	7864	GG	CC	1947041017
SNP_P4_178825_7987	NW_004517763.1	Scaffold2946	7987	TT	AA	1947041019
SNP_P4_178826_17812	NW_004517763.1	Scaffold2946	17812	TT	CC	1947041021
SNP_P4_178827_17813	NW_004517763.1	Scaffold2946	17813	TT	AA	1947041023
SNP_P4_178828_21814	NW_004517763.1	Scaffold2946	21814	AA	TT	1947041025
SNP_P4_178829_21836	NW_004517763.1	Scaffold2946	21836	TT	GG	1947041027
SNP_P4_178830_21849	NW_004517763.1	Scaffold2946	21849	CC	TT	1947041029
SNP_P4_178831_22061	NW_004517763.1	Scaffold2946	22061	GG	AA	1947041031
SNP_P4_178832_22143	NW_004517763.1	Scaffold2946	22143	CC	AA	1947041033

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_178834_350	NW_004517765.1	Scaffold2950	350	TT	CC	1947041037
SNP_P4_178835_399	NW_004517765.1	Scaffold2950	399	CC	TT	1947041039
SNP_P4_178836_507	NW_004517765.1	Scaffold2950	507	TT	CC	1947041041
SNP_P4_178837_514	NW_004517765.1	Scaffold2950	514	AA	TT	1947041043
SNP_P4_178838_517	NW_004517765.1	Scaffold2950	517	AA	TT	1947041045
SNP_P4_178839_583	NW_004517765.1	Scaffold2950	583	AA	GG	1947041047
SNP_P4_178840_615	NW_004517765.1	Scaffold2950	615	CC	TT	1947041049
SNP_P4_178841_634	NW_004517765.1	Scaffold2950	634	CC	TT	1947041051
SNP_P4_178842_636	NW_004517765.1	Scaffold2950	636	TT	CC	1947041053
SNP_P4_178844_718	NW_004517765.1	Scaffold2950	718	TT	GG	1947041055
SNP_P4_178845_1266	NW_004517765.1	Scaffold2950	1266	GG	AA	1947041057
SNP_P4_178847_1469	NW_004517765.1	Scaffold2950	1469	CC	TT	1947041059
SNP_P4_178848_4281	NW_004517765.1	Scaffold2950	4281	CC	TT	1947041061
SNP_P4_178849_6464	NW_004517765.1	Scaffold2950	6464	TT	CC	1947041063
SNP_P4_178852_6930	NW_004517765.1	Scaffold2950	6930	TT	AA	1947041065
SNP_P4_178853_7738	NW_004517765.1	Scaffold2950	7738	CC	TT	1947041067
SNP_P4_178854_7793	NW_004517765.1	Scaffold2950	7793	CC	TT	1947041069
SNP_P4_178855_8111	NW_004517765.1	Scaffold2950	8111	TT	CC	1947041071
SNP_P4_178856_8183	NW_004517765.1	Scaffold2950	8183	TT	CC	1947041074
SNP_P4_178858_8404	NW_004517765.1	Scaffold2950	8404	TT	CC	1947041076
SNP_P4_178859_8516	NW_004517765.1	Scaffold2950	8516	CC	GG	1947041078
SNP_P4_178860_8524	NW_004517765.1	Scaffold2950	8524	CC	GG	1947041080
SNP_P4_178861_8534	NW_004517765.1	Scaffold2950	8534	GG	AA	1947041082
SNP_P4_178862_8609	NW_004517765.1	Scaffold2950	8609	TT	CC	1947041084
SNP_P4_178863_8613	NW_004517765.1	Scaffold2950	8613	AA	CC	1947041086
SNP_P4_178864_10103	NW_004517765.1	Scaffold2950	10103	GG	AA	1947041088
SNP_P4_178866_10218	NW_004517765.1	Scaffold2950	10218	GG	TT	1947041090
SNP_P4_178867_10318	NW_004517765.1	Scaffold2950	10318	GG	CC	1947041092
SNP_P4_178868_10370	NW_004517765.1	Scaffold2950	10370	CC	GG	1947041094
SNP_P4_178869_10559	NW_004517765.1	Scaffold2950	10559	AA	GG	1947041096
SNP_P4_178871_10710	NW_004517765.1	Scaffold2950	10710	TT	GG	1947041098
SNP_P4_178872_10713	NW_004517765.1	Scaffold2950	10713	CC	TT	1947041100
SNP_P4_178873_10717	NW_004517765.1	Scaffold2950	10717	AA	CC	1947041103
SNP_P4_178874_10798	NW_004517765.1	Scaffold2950	10798	CC	AA	1947041105
SNP_P4_178875_10957	NW_004517765.1	Scaffold2950	10957	TT	CC	1947041107
SNP_P4_178876_11035	NW_004517765.1	Scaffold2950	11035	GG	TT	1947041109
SNP_P4_178877_11159	NW_004517765.1	Scaffold2950	11159	TT	GG	1947041111
SNP_P4_178878_11353	NW_004517765.1	Scaffold2950	11353	GG	AA	1947041113
SNP_P4_178879_11610	NW_004517765.1	Scaffold2950	11610	AA	GG	1947041115
SNP_P4_178880_11663	NW_004517765.1	Scaffold2950	11663	GG	AA	1947041117
SNP_P4_178881_11675	NW_004517765.1	Scaffold2950	11675	CC	TT	1947041119

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_178883_12126	NW_004517765.1	Scaffold2950	12126	AA	GG	1947041123
SNP_P4_178884_12271	NW_004517765.1	Scaffold2950	12271	TT	AA	1947041125
SNP_P4_178885_12392	NW_004517765.1	Scaffold2950	12392	GG	AA	1947041127
SNP_P4_178886_12395	NW_004517765.1	Scaffold2950	12395	TT	AA	1947041129
SNP_P4_178887_64	NW_004517766.1	Scaffold2951	64	AA	CC	1947041131
SNP_P4_178888_66	NW_004517766.1	Scaffold2951	66	GG	AA	1947041133
SNP_P4_178889_104	NW_004517766.1	Scaffold2951	104	TT	AA	1947041135
SNP_P4_178890_199	NW_004517766.1	Scaffold2951	199	TT	AA	1947041137
SNP_P4_178891_586	NW_004517766.1	Scaffold2951	586	CC	TT	1947041139
SNP_P4_178892_366	NW_004517767.1	Scaffold2954	366	AA	CC	1947041141
SNP_P4_178893_814	NW_004517767.1	Scaffold2954	814	AA	CC	1947041143
SNP_P4_178894_12555	NW_004517767.1	Scaffold2954	12555	GG	TT	1947041145
SNP_P4_178895_12841	NW_004517767.1	Scaffold2954	12841	CC	TT	1947041147
SNP_P4_178896_12853	NW_004517767.1	Scaffold2954	12853	CC	TT	1947041149
SNP_P4_178897_598	NW_004517768.1	Scaffold2955	598	CC	TT	1947041151
SNP_P4_178898_858	NW_004517768.1	Scaffold2955	858	CC	TT	1947041154
SNP_P4_178899_882	NW_004517768.1	Scaffold2955	882	CC	GG	1947041156
SNP_P4_178900_900	NW_004517768.1	Scaffold2955	900	CC	TT	1947041158
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SNP_P4_178904_5768	NW_004517768.1	Scaffold2955	5768	GG	AA	1947041164
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SNP_P4_178907_7409	NW_004517768.1	Scaffold2955	7409	GG	AA	1947041170
SNP_P4_178908_7421	NW_004517768.1	Scaffold2955	7421	CC	TT	1947041172
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SNP_P4_178915_8104	NW_004517768.1	Scaffold2955	8104	CC	TT	1947041186
SNP_P4_178916_9114	NW_004517768.1	Scaffold2955	9114	AA	CC	1947041188
SNP_P4_178917_9298	NW_004517768.1	Scaffold2955	9298	AA	GG	1947041190
SNP_P4_178918_9381	NW_004517768.1	Scaffold2955	9381	GG	AA	1947041192
SNP_P4_178919_9449	NW_004517768.1	Scaffold2955	9449	CC	GG	1947041194
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SNP_P4_178922_9512	NW_004517768.1	Scaffold2955	9512	AA	TT	1947041200
SNP_P4_178923_9554	NW_004517768.1	Scaffold2955	9554	AA	GG	1947041202
SNP_P4_178924_9563	NW_004517768.1	Scaffold2955	9563	GG	AA	1947041204

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_178926_9695	NW_004517768.1	Scaffold2955	9695	TT	CC	1947041208
SNP_P4_178927_9698	NW_004517768.1	Scaffold2955	9698	TT	CC	1947041210
SNP_P4_178930_10096	NW_004517768.1	Scaffold2955	10096	TT	CC	1947041213
SNP_P4_178931_10155	NW_004517768.1	Scaffold2955	10155	TT	CC	1947041215
SNP_P4_178932_10157	NW_004517768.1	Scaffold2955	10157	GG	AA	1947041217
SNP_P4_178933_11484	NW_004517768.1	Scaffold2955	11484	TT	CC	1947041219
SNP_P4_178934_11506	NW_004517768.1	Scaffold2955	11506	TT	CC	1947041221
SNP_P4_178935_11565	NW_004517768.1	Scaffold2955	11565	AA	TT	1947041223
SNP_P4_178936_11642	NW_004517768.1	Scaffold2955	11642	CC	AA	1947041225
SNP_P4_178937_11643	NW_004517768.1	Scaffold2955	11643	GG	AA	1947041227
SNP_P4_178938_11650	NW_004517768.1	Scaffold2955	11650	CC	TT	1947041229
SNP_P4_178939_11697	NW_004517768.1	Scaffold2955	11697	AA	CC	1947041231
SNP_P4_178940_11700	NW_004517768.1	Scaffold2955	11700	AA	TT	1947041233
SNP_P4_178942_11736	NW_004517768.1	Scaffold2955	11736	TT	CC	1947041235
SNP_P4_178943_11861	NW_004517768.1	Scaffold2955	11861	TT	AA	1947041237
SNP_P4_178944_11949	NW_004517768.1	Scaffold2955	11949	TT	CC	1947041239
SNP_P4_178945_11980	NW_004517768.1	Scaffold2955	11980	CC	TT	1947041241
SNP_P4_178946_12064	NW_004517768.1	Scaffold2955	12064	CC	TT	1947041243
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SNP_P4_178959_43650	NW_004517768.1	Scaffold2955	43650	TT	AA	1947041269
SNP_P4_178960_178	NW_004517770.1	Scaffold2957	178	AA	TT	1947041271
SNP_P4_178961_851	NW_004517770.1	Scaffold2957	851	AA	CC	1947041274
SNP_P4_178962_919	NW_004517770.1	Scaffold2957	919	TT	CC	1947041276
SNP_P4_178963_1046	NW_004517770.1	Scaffold2957	1046	CC	TT	1947041278
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SNP_P4_178965_1440	NW_004517770.1	Scaffold2957	1440	TT	CC	1947041282
SNP_P4_178966_9523	NW_004517770.1	Scaffold2957	9523	AA	TT	1947041284
SNP_P4_178967_10043	NW_004517770.1	Scaffold2957	10043	TT	GG	1947041286
SNP_P4_178969_10844	NW_004517770.1	Scaffold2957	10844	GG	TT	1947041288
SNP_P4_178971_13607	NW_004517772.1	Scaffold2959	13607	AA	TT	1947041290

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_178973_13689	NW_004517772.1	Scaffold2959	13689	TT	CC	1947041294
SNP_P4_178974_16048	NW_004517772.1	Scaffold2959	16048	TT	GG	1947041296
SNP_P4_178975_16466	NW_004517772.1	Scaffold2959	16466	GG	TT	1947041298
SNP_P4_178976_364	NW_004517773.1	Scaffold2960	364	TT	GG	1947041300
SNP_P4_178977_750	NW_004517774.1	Scaffold2962	750	CC	TT	1947041302
SNP_P4_178978_208	NW_004517775.1	Scaffold2964	208	GG	CC	1947041304
SNP_P4_178979_209	NW_004517775.1	Scaffold2964	209	AA	TT	1947041306
SNP_P4_178980_213	NW_004517775.1	Scaffold2964	213	AA	TT	1947041308
SNP_P4_178982_311	NW_004517775.1	Scaffold2964	311	GG	AA	1947041310
SNP_P4_178983_503	NW_004517775.1	Scaffold2964	503	CC	AA	1947041312
SNP_P4_178984_1079	NW_004517778.1	Scaffold2967	1079	AA	GG	1947041314
SNP_P4_178985_1394	NW_004517778.1	Scaffold2967	1394	GG	TT	1947041316
SNP_P4_178986_15439	NW_004517779.1	Scaffold2968	15439	CC	TT	1947041318
SNP_P4_178987_15627	NW_004517779.1	Scaffold2968	15627	AA	GG	1947041320
SNP_P4_178988_22115	NW_004517779.1	Scaffold2968	22115	CC	TT	1947041322
SNP_P4_178990_23683	NW_004517780.1	Scaffold2969	23683	TT	CC	1947041324
SNP_P4_178991_23684	NW_004517780.1	Scaffold2969	23684	TT	CC	1947041327
SNP_P4_178992_23685	NW_004517780.1	Scaffold2969	23685	CC	TT	1947041329
SNP_P4_178993_23701	NW_004517780.1	Scaffold2969	23701	CC	GG	1947041331
SNP_P4_178994_23717	NW_004517780.1	Scaffold2969	23717	GG	TT	1947041333
SNP_P4_178995_23738	NW_004517780.1	Scaffold2969	23738	AA	GG	1947041335
SNP_P4_178996_23747	NW_004517780.1	Scaffold2969	23747	TT	GG	1947041337
SNP_P4_178997_24322	NW_004517780.1	Scaffold2969	24322	GG	AA	1947041339
SNP_P4_178998_24324	NW_004517780.1	Scaffold2969	24324	TT	CC	1947041341
SNP_P4_178999_25623	NW_004517780.1	Scaffold2969	25623	AA	CC	1947041343
SNP_P4_179000_25624	NW_004517780.1	Scaffold2969	25624	TT	CC	1947041345
SNP_P4_179002_25860	NW_004517780.1	Scaffold2969	25860	GG	TT	1947041347
SNP_P4_179003_25871	NW_004517780.1	Scaffold2969	25871	AA	CC	1947041349
SNP_P4_179005_45900	NW_004517780.1	Scaffold2969	45900	TT	AA	1947041350
SNP_P4_179006_46357	NW_004517780.1	Scaffold2969	46357	TT	CC	1947041352
SNP_P4_179007_46398	NW_004517780.1	Scaffold2969	46398	GG	TT	1947041354
SNP_P4_179008_46661	NW_004517780.1	Scaffold2969	46661	AA	GG	1947041356
SNP_P4_179009_50489	NW_004517780.1	Scaffold2969	50489	TT	CC	1947041358
SNP_P4_179010_52000	NW_004517780.1	Scaffold2969	52000	GG	AA	1947041360
SNP_P4_179011_141	NW_004517782.1	Scaffold2974	141	TT	AA	1947041362
SNP_P4_179012_416	NW_004517782.1	Scaffold2974	416	TT	CC	1947041364
SNP_P4_179013_171	NW_004517784.1	Scaffold2977	171	TT	CC	1947041366
SNP_P4_179014_544	NW_004517785.1	Scaffold2979	544	GG	AA	1947041368
SNP_P4_179015_563	NW_004517785.1	Scaffold2979	563	AA	TT	1947041370
SNP_P4_179016_583	NW_004517785.1	Scaffold2979	583	GG	TT	1947041372
SNP_P4_179017_417	NW_004517787.1	Scaffold2981	417	TT	CC	1947041374

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_179018_1646	NW_004517787.1	Scaffold2981	1646	CC	AA	1947041376
SNP_P4_179019_2019	NW_004517787.1	Scaffold2981	2019	CC	GG	1947041378
SNP_P4_179020_2042	NW_004517787.1	Scaffold2981	2042	GG	TT	1947041380
SNP_P4_179021_2046	NW_004517787.1	Scaffold2981	2046	CC	TT	1947041382
SNP_P4_179022_17519	NW_004517787.1	Scaffold2981	17519	TT	CC	1947041384
SNP_P4_179023_17539	NW_004517787.1	Scaffold2981	17539	AA	GG	1947041386
SNP_P4_179024_17559	NW_004517787.1	Scaffold2981	17559	AA	GG	1947041388
SNP_P4_179025_21922	NW_004517787.1	Scaffold2981	21922	GG	TT	1947041390
SNP_P4_179026_21938	NW_004517787.1	Scaffold2981	21938	AA	GG	1947041392
SNP_P4_179027_21939	NW_004517787.1	Scaffold2981	21939	AA	CC	1947041394
SNP_P4_179028_25616	NW_004517787.1	Scaffold2981	25616	AA	GG	1947041396
SNP_P4_179029_32493	NW_004517787.1	Scaffold2981	32493	TT	CC	1947041398
SNP_P4_179030_32818	NW_004517787.1	Scaffold2981	32818	TT	GG	1947041400
SNP_P4_179031_32978	NW_004517787.1	Scaffold2981	32978	CC	TT	1947041402
SNP_P4_179032_33066	NW_004517787.1	Scaffold2981	33066	TT	CC	1947041404
SNP_P4_179033_33082	NW_004517787.1	Scaffold2981	33082	TT	GG	1947041405
SNP_P4_179034_33104	NW_004517787.1	Scaffold2981	33104	TT	CC	1947041407
SNP_P4_179035_33251	NW_004517787.1	Scaffold2981	33251	GG	AA	1947041409
SNP_P4_179036_33260	NW_004517787.1	Scaffold2981	33260	AA	GG	1947041411
SNP_P4_179037_33331	NW_004517787.1	Scaffold2981	33331	TT	GG	1947041413
SNP_P4_179038_33437	NW_004517787.1	Scaffold2981	33437	TT	GG	1947041415
SNP_P4_179039_33550	NW_004517787.1	Scaffold2981	33550	AA	GG	1947041417
SNP_P4_179040_33644	NW_004517787.1	Scaffold2981	33644	GG	AA	1947041419
SNP_P4_179041_14751	NW_004517789.1	Scaffold2984	14751	TT	CC	1947041421
SNP_P4_179042_14964	NW_004517789.1	Scaffold2984	14964	TT	AA	1947041423
SNP_P4_179043_19173	NW_004517789.1	Scaffold2984	19173	CC	TT	1947041425
SNP_P4_179044_19615	NW_004517789.1	Scaffold2984	19615	TT	GG	1947041427
SNP_P4_179045_20948	NW_004517789.1	Scaffold2984	20948	TT	CC	1947041429
SNP_P4_179046_21698	NW_004517789.1	Scaffold2984	21698	TT	CC	1947041431
SNP_P4_179047_21706	NW_004517789.1	Scaffold2984	21706	GG	AA	1947041433
SNP_P4_179048_21715	NW_004517789.1	Scaffold2984	21715	CC	TT	1947041435
SNP_P4_179049_21782	NW_004517789.1	Scaffold2984	21782	AA	GG	1947041437
SNP_P4_179050_21784	NW_004517789.1	Scaffold2984	21784	TT	CC	1947041439
SNP_P4_179051_21801	NW_004517789.1	Scaffold2984	21801	TT	CC	1947041441
SNP_P4_179053_21960	NW_004517789.1	Scaffold2984	21960	TT	GG	1947041443
SNP_P4_179054_21961	NW_004517789.1	Scaffold2984	21961	TT	CC	1947041445
SNP_P4_179055_21962	NW_004517789.1	Scaffold2984	21962	GG	CC	1947041447
SNP_P4_179056_22074	NW_004517789.1	Scaffold2984	22074	CC	GG	1947041449
SNP_P4_179057_22156	NW_004517789.1	Scaffold2984	22156	TT	CC	1947041451
SNP_P4_179058_22391	NW_004517789.1	Scaffold2984	22391	TT	GG	1947041453
SNP_P4_179059_22804	NW_004517789.1	Scaffold2984	22804	GG	CC	1947041455
SNP_P4_179060_22815	NW_004517789.1	Scaffold2984	22815	TT	CC	1947041457

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_179062_23023	NW_004517789.1	Scaffold2984	23023	TT	CC	1947041461
SNP_P4_179063_23115	NW_004517789.1	Scaffold2984	23115	TT	CC	1947041463
SNP_P4_179064_23130	NW_004517789.1	Scaffold2984	23130	AA	GG	1947041465
SNP_P4_179065_23138	NW_004517789.1	Scaffold2984	23138	GG	AA	1947041467
SNP_P4_179066_23234	NW_004517789.1	Scaffold2984	23234	GG	AA	1947041469
SNP_P4_179067_23590	NW_004517789.1	Scaffold2984	23590	GG	AA	1947041471
SNP_P4_179068_23599	NW_004517789.1	Scaffold2984	23599	TT	AA	1947041473
SNP_P4_179069_24345	NW_004517789.1	Scaffold2984	24345	GG	TT	1947041475
SNP_P4_179070_24470	NW_004517789.1	Scaffold2984	24470	CC	TT	1947041477
SNP_P4_179071_24499	NW_004517789.1	Scaffold2984	24499	TT	CC	1947041479
SNP_P4_179072_24625	NW_004517789.1	Scaffold2984	24625	TT	GG	1947041481
SNP_P4_179073_24678	NW_004517789.1	Scaffold2984	24678	GG	AA	1947041484
SNP_P4_179074_24998	NW_004517789.1	Scaffold2984	24998	CC	TT	1947041486
SNP_P4_179075_25048	NW_004517789.1	Scaffold2984	25048	CC	TT	1947041488
SNP_P4_179076_25065	NW_004517789.1	Scaffold2984	25065	TT	AA	1947041490
SNP_P4_179077_25371	NW_004517789.1	Scaffold2984	25371	AA	GG	1947041492
SNP_P4_179078_25845	NW_004517789.1	Scaffold2984	25845	TT	GG	1947041494
SNP_P4_179079_26148	NW_004517789.1	Scaffold2984	26148	TT	CC	1947041496
SNP_P4_179080_26193	NW_004517789.1	Scaffold2984	26193	CC	TT	1947041498
SNP_P4_179081_2456	NW_004517790.1	Scaffold2985	2456	CC	GG	1947041500
SNP_P4_179082_2457	NW_004517790.1	Scaffold2985	2457	GG	TT	1947041502
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SNP_P4_179084_7650	NW_004517792.1	Scaffold2988	7650	TT	GG	1947041506
SNP_P4_179085_7654	NW_004517792.1	Scaffold2988	7654	CC	TT	1947041508
SNP_P4_179086_10504	NW_004517792.1	Scaffold2988	10504	GG	AA	1947041510
SNP_P4_179087_15591	NW_004517792.1	Scaffold2988	15591	TT	CC	1947041512
SNP_P4_179088_15593	NW_004517792.1	Scaffold2988	15593	GG	AA	1947041514
SNP_P4_179089_15621	NW_004517792.1	Scaffold2988	15621	TT	CC	1947041516
SNP_P4_179090_15662	NW_004517792.1	Scaffold2988	15662	CC	TT	1947041518
SNP_P4_179091_15680	NW_004517792.1	Scaffold2988	15680	TT	CC	1947041520
SNP_P4_179092_15744	NW_004517792.1	Scaffold2988	15744	AA	GG	1947041522
SNP_P4_179093_15822	NW_004517792.1	Scaffold2988	15822	AA	CC	1947041524
SNP_P4_179094_15827	NW_004517792.1	Scaffold2988	15827	TT	AA	1947041526
SNP_P4_179095_18595	NW_004517792.1	Scaffold2988	18595	GG	AA	1947041528
SNP_P4_179096_18606	NW_004517792.1	Scaffold2988	18606	CC	AA	1947041530
SNP_P4_179097_18631	NW_004517792.1	Scaffold2988	18631	GG	AA	1947041532
SNP_P4_179098_18634	NW_004517792.1	Scaffold2988	18634	AA	GG	1947041534
SNP_P4_179099_18673	NW_004517792.1	Scaffold2988	18673	TT	AA	1947041536
SNP_P4_179100_23155	NW_004517792.1	Scaffold2988	23155	AA	CC	1947041538
SNP_P4_179101_23458	NW_004517792.1	Scaffold2988	23458	AA	GG	1947041541
SNP_P4_179102_23486	NW_004517792.1	Scaffold2988	23486	GG	AA	1947041543

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_179104_23508	NW_004517792.1	Scaffold2988	23508	GG	AA	1947041547
SNP_P4_179105_23539	NW_004517792.1	Scaffold2988	23539	AA	TT	1947041549
SNP_P4_179106_23543	NW_004517792.1	Scaffold2988	23543	TT	CC	1947041551
SNP_P4_179107_23573	NW_004517792.1	Scaffold2988	23573	AA	GG	1947041553
SNP_P4_179108_23574	NW_004517792.1	Scaffold2988	23574	TT	CC	1947041555
SNP_P4_179109_23580	NW_004517792.1	Scaffold2988	23580	AA	GG	1947041557
SNP_P4_179110_23596	NW_004517792.1	Scaffold2988	23596	CC	TT	1947041559
SNP_P4_179111_39637	NW_004517792.1	Scaffold2988	39637	GG	AA	1947041561
SNP_P4_179112_39649	NW_004517792.1	Scaffold2988	39649	CC	GG	1947041563
SNP_P4_179113_39659	NW_004517792.1	Scaffold2988	39659	AA	CC	1947041565
SNP_P4_179114_39660	NW_004517792.1	Scaffold2988	39660	CC	TT	1947041567
SNP_P4_179115_39667	NW_004517792.1	Scaffold2988	39667	GG	AA	1947041569
SNP_P4_179116_39668	NW_004517792.1	Scaffold2988	39668	GG	AA	1947041571
SNP_P4_179117_39674	NW_004517792.1	Scaffold2988	39674	AA	TT	1947041573
SNP_P4_179118_47132	NW_004517792.1	Scaffold2988	47132	AA	CC	1947041576
SNP_P4_179119_47316	NW_004517792.1	Scaffold2988	47316	TT	CC	1947041578
SNP_P4_179120_47360	NW_004517792.1	Scaffold2988	47360	AA	TT	1947041580
SNP_P4_179121_58683	NW_004517792.1	Scaffold2988	58683	AA	CC	1947041582
SNP_P4_179122_59176	NW_004517792.1	Scaffold2988	59176	CC	TT	1947041584
SNP_P4_179123_59224	NW_004517792.1	Scaffold2988	59224	TT	AA	1947041586
SNP_P4_179124_8984	NW_004517793.1	Scaffold2989	8984	CC	TT	1947041588
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SNP_P4_179126_8996	NW_004517793.1	Scaffold2989	8996	CC	GG	1947041592
SNP_P4_179127_9008	NW_004517793.1	Scaffold2989	9008	CC	GG	1947041593
SNP_P4_179128_9809	NW_004517793.1	Scaffold2989	9809	GG	AA	1947041594
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SNP_P4_179133_6286	NW_004517794.1	Scaffold2990	6286	GG	AA	1947041599
SNP_P4_179134_6304	NW_004517794.1	Scaffold2990	6304	GG	AA	1947041600
SNP_P4_179135_6334	NW_004517794.1	Scaffold2990	6334	AA	CC	1947041601
SNP_P4_179137_6505	NW_004517794.1	Scaffold2990	6505	AA	TT	1947041602
SNP_P4_179138_6563	NW_004517794.1	Scaffold2990	6563	AA	TT	1947041603
SNP_P4_179139_6570	NW_004517794.1	Scaffold2990	6570	TT	CC	1947041604
SNP_P4_179140_6597	NW_004517794.1	Scaffold2990	6597	TT	GG	1947041605
SNP_P4_179141_6645	NW_004517794.1	Scaffold2990	6645	CC	AA	1947041606
SNP_P4_179142_6647	NW_004517794.1	Scaffold2990	6647	AA	GG	1947041607
SNP_P4_179143_6682	NW_004517794.1	Scaffold2990	6682	TT	GG	1947041608
SNP_P4_179144_6687	NW_004517794.1	Scaffold2990	6687	CC	TT	1947041609
SNP_P4_179145_6689	NW_004517794.1	Scaffold2990	6689	AA	GG	1947041610

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_179147_6719	NW_004517794.1	Scaffold2990	6719	GG	TT	1947041612
SNP_P4_179148_10243	NW_004517794.1	Scaffold2990	10243	CC	AA	1947041613
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SNP_P4_179150_210	NW_004517797.1	Scaffold2994	210	CC	TT	1947041615
SNP_P4_179151_484	NW_004517797.1	Scaffold2994	484	AA	CC	1947041617
SNP_P4_179152_4241	NW_004517797.1	Scaffold2994	4241	GG	AA	1947041619
SNP_P4_179153_4615	NW_004517797.1	Scaffold2994	4615	GG	TT	1947041621
SNP_P4_179154_4620	NW_004517797.1	Scaffold2994	4620	AA	GG	1947041623
SNP_P4_179155_9917	NW_004517797.1	Scaffold2994	9917	GG	AA	1947041625
SNP_P4_179156_9918	NW_004517797.1	Scaffold2994	9918	CC	TT	1947041627
SNP_P4_179157_9944	NW_004517797.1	Scaffold2994	9944	TT	CC	1947041629
SNP_P4_179158_10028	NW_004517797.1	Scaffold2994	10028	TT	AA	1947041631
SNP_P4_179159_10029	NW_004517797.1	Scaffold2994	10029	TT	AA	1947041633
SNP_P4_179160_10030	NW_004517797.1	Scaffold2994	10030	TT	AA	1947041635
SNP_P4_179161_4517	NW_004517798.1	Scaffold2996	4517	CC	TT	1947041637
SNP_P4_179162_4539	NW_004517798.1	Scaffold2996	4539	AA	TT	1947041639
SNP_P4_179163_4565	NW_004517798.1	Scaffold2996	4565	AA	GG	1947041641
SNP_P4_179164_4582	NW_004517798.1	Scaffold2996	4582	CC	TT	1947041643
SNP_P4_179165_19945	NW_004517798.1	Scaffold2996	19945	TT	CC	1947041645
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SNP_P4_179177_5157	NW_004517800.1	Scaffold2998	5157	CC	TT	1947041667
SNP_P4_179178_5185	NW_004517800.1	Scaffold2998	5185	AA	GG	1947041669
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SNP_P4_179180_5411	NW_004517800.1	Scaffold2998	5411	CC	TT	1947041673
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SNP_P4_179182_5684	NW_004517800.1	Scaffold2998	5684	GG	AA	1947041677
SNP_P4_179183_5890	NW_004517800.1	Scaffold2998	5890	AA	GG	1947041679
SNP_P4_179184_581	NW_004517802.1	Scaffold3002	581	TT	GG	1947041681
SNP_P4_179185_633	NW_004517802.1	Scaffold3002	633	GG	AA	1947041684
SNP_P4_179186_853	NW_004517802.1	Scaffold3002	853	GG	AA	1947041686
SNP_P4_179187_960	NW_004517802.1	Scaffold3002	960	TT	AA	1947041688
SNP_P4_179188_2944	NW_004517802.1	Scaffold3002	2944	GG	TT	1947041690

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_179191_478	NW_004517807.1	Scaffold3008	478	CC	TT	1947041695
SNP_P4_179192_545	NW_004517807.1	Scaffold3008	545	AA	GG	1947041697
SNP_P4_179193_617	NW_004517807.1	Scaffold3008	617	GG	TT	1947041699
SNP_P4_179194_1900	NW_004517813.1	Scaffold3015	1900	AA	GG	1947041701
SNP_P4_179195_21829	NW_004517813.1	Scaffold3015	21829	CC	AA	1947041703
SNP_P4_179196_56053	NW_004517813.1	Scaffold3015	56053	TT	AA	1947041705
SNP_P4_179197_56088	NW_004517813.1	Scaffold3015	56088	AA	GG	1947041707
SNP_P4_179198_56954	NW_004517813.1	Scaffold3015	56954	TT	CC	1947041709
SNP_P4_179199_59984	NW_004517813.1	Scaffold3015	59984	GG	AA	1947041711
SNP_P4_179200_60049	NW_004517813.1	Scaffold3015	60049	AA	TT	1947041713
SNP_P4_179201_60159	NW_004517813.1	Scaffold3015	60159	CC	GG	1947041740
SNP_P4_179202_60210	NW_004517813.1	Scaffold3015	60210	CC	TT	1947041743
SNP_P4_179203_60266	NW_004517813.1	Scaffold3015	60266	GG	AA	1947041745
SNP_P4_179204_60285	NW_004517813.1	Scaffold3015	60285	CC	TT	1947041747
SNP_P4_179205_60288	NW_004517813.1	Scaffold3015	60288	CC	AA	1947041749
SNP_P4_179206_60431	NW_004517813.1	Scaffold3015	60431	GG	AA	1947041751
SNP_P4_179207_60444	NW_004517813.1	Scaffold3015	60444	CC	TT	1947041753
SNP_P4_179208_68346	NW_004517813.1	Scaffold3015	68346	CC	TT	1947041755
SNP_P4_179209_68424	NW_004517813.1	Scaffold3015	68424	AA	GG	1947041757
SNP_P4_179210_68427	NW_004517813.1	Scaffold3015	68427	AA	GG	1947041759
SNP_P4_179211_68437	NW_004517813.1	Scaffold3015	68437	CC	TT	1947041761
SNP_P4_179212_68471	NW_004517813.1	Scaffold3015	68471	CC	AA	1947041763
SNP_P4_179213_68483	NW_004517813.1	Scaffold3015	68483	AA	GG	1947041765
SNP_P4_179214_68531	NW_004517813.1	Scaffold3015	68531	CC	TT	1947041767
SNP_P4_179215_68555	NW_004517813.1	Scaffold3015	68555	GG	AA	1947041769
SNP_P4_179216_68559	NW_004517813.1	Scaffold3015	68559	TT	AA	1947041771
SNP_P4_179217_68581	NW_004517813.1	Scaffold3015	68581	AA	TT	1947041773
SNP_P4_179218_68597	NW_004517813.1	Scaffold3015	68597	GG	AA	1947041775
SNP_P4_179219_68642	NW_004517813.1	Scaffold3015	68642	CC	AA	1947041777
SNP_P4_179221_68672	NW_004517813.1	Scaffold3015	68672	TT	GG	1947041779
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SNP_P4_179223_68707	NW_004517813.1	Scaffold3015	68707	TT	AA	1947041783
SNP_P4_179224_68756	NW_004517813.1	Scaffold3015	68756	TT	CC	1947041785
SNP_P4_179225_68832	NW_004517813.1	Scaffold3015	68832	AA	TT	1947041787
SNP_P4_179226_68858	NW_004517813.1	Scaffold3015	68858	CC	TT	1947041789
SNP_P4_179227_68897	NW_004517813.1	Scaffold3015	68897	AA	TT	1947041791
SNP_P4_179228_68940	NW_004517813.1	Scaffold3015	68940	AA	CC	1947041793
SNP_P4_179229_69050	NW_004517813.1	Scaffold3015	69050	TT	CC	1947041795
SNP_P4_179230_69151	NW_004517813.1	Scaffold3015	69151	TT	CC	1947041797
SNP_P4_179232_69235	NW_004517813.1	Scaffold3015	69235	GG	AA	1947041799

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_179235_73369	NW_004517813.1	Scaffold3015	73369	TT	AA	1947041803
SNP_P4_179236_73409	NW_004517813.1	Scaffold3015	73409	AA	CC	1947041805
SNP_P4_179237_73430	NW_004517813.1	Scaffold3015	73430	AA	GG	1947041807
SNP_P4_179239_73610	NW_004517813.1	Scaffold3015	73610	CC	TT	1947041809
SNP_P4_179240_73612	NW_004517813.1	Scaffold3015	73612	CC	TT	1947041811
SNP_P4_179241_73639	NW_004517813.1	Scaffold3015	73639	AA	GG	1947041813
SNP_P4_179242_73688	NW_004517813.1	Scaffold3015	73688	AA	GG	1947041815
SNP_P4_179243_73809	NW_004517813.1	Scaffold3015	73809	CC	TT	1947041817
SNP_P4_179244_73930	NW_004517813.1	Scaffold3015	73930	TT	CC	1947041819
SNP_P4_179246_73968	NW_004517813.1	Scaffold3015	73968	AA	TT	1947041821
SNP_P4_179247_73988	NW_004517813.1	Scaffold3015	73988	AA	GG	1947041823
SNP_P4_179249_74121	NW_004517813.1	Scaffold3015	74121	CC	GG	1947041825
SNP_P4_179251_74191	NW_004517813.1	Scaffold3015	74191	CC	GG	1947041827
SNP_P4_179252_74229	NW_004517813.1	Scaffold3015	74229	TT	CC	1947041829
SNP_P4_179253_74263	NW_004517813.1	Scaffold3015	74263	GG	CC	1947041831
SNP_P4_179254_74335	NW_004517813.1	Scaffold3015	74335	AA	GG	1947041833
SNP_P4_179255_74426	NW_004517813.1	Scaffold3015	74426	AA	GG	1947041835
SNP_P4_179258_76863	NW_004517813.1	Scaffold3015	76863	CC	TT	1947041837
SNP_P4_179259_77036	NW_004517813.1	Scaffold3015	77036	TT	CC	1947041839
SNP_P4_179260_77055	NW_004517813.1	Scaffold3015	77055	CC	TT	1947041841
SNP_P4_179261_77060	NW_004517813.1	Scaffold3015	77060	TT	AA	1947041843
SNP_P4_179262_78629	NW_004517813.1	Scaffold3015	78629	GG	CC	1947041845
SNP_P4_179263_80112	NW_004517813.1	Scaffold3015	80112	CC	TT	1947041847
SNP_P4_179264_80224	NW_004517813.1	Scaffold3015	80224	TT	CC	1947041849
SNP_P4_179265_80227	NW_004517813.1	Scaffold3015	80227	CC	TT	1947041851
SNP_P4_179266_80389	NW_004517813.1	Scaffold3015	80389	GG	AA	1947041853
SNP_P4_179267_80418	NW_004517813.1	Scaffold3015	80418	GG	AA	1947041855
SNP_P4_179268_80540	NW_004517813.1	Scaffold3015	80540	CC	TT	1947041857
SNP_P4_179269_80542	NW_004517813.1	Scaffold3015	80542	CC	TT	1947041859
SNP_P4_179270_80842	NW_004517813.1	Scaffold3015	80842	AA	GG	1947041861
SNP_P4_179271_80890	NW_004517813.1	Scaffold3015	80890	GG	AA	1947041863
SNP_P4_179272_80893	NW_004517813.1	Scaffold3015	80893	TT	CC	1947041865
SNP_P4_179273_80944	NW_004517813.1	Scaffold3015	80944	TT	CC	1947041867
SNP_P4_179274_80984	NW_004517813.1	Scaffold3015	80984	GG	AA	1947041869
SNP_P4_179275_81177	NW_004517813.1	Scaffold3015	81177	AA	GG	1947041871
SNP_P4_179276_81230	NW_004517813.1	Scaffold3015	81230	TT	CC	1947041873
SNP_P4_179277_81238	NW_004517813.1	Scaffold3015	81238	CC	GG	1947041875
SNP_P4_179278_81267	NW_004517813.1	Scaffold3015	81267	CC	AA	1947041878
SNP_P4_179279_81279	NW_004517813.1	Scaffold3015	81279	TT	GG	1947041880
SNP_P4_179280_81481	NW_004517813.1	Scaffold3015	81481	CC	TT	1947041882
SNP_P4_179281_81514	NW_004517813.1	Scaffold3015	81514	TT	CC	1947041883

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_179283_81559	NW_004517813.1	Scaffold3015	81559	AA	GG	1947041887
SNP_P4_179284_81603	NW_004517813.1	Scaffold3015	81603	CC	AA	1947041889
SNP_P4_179285_81620	NW_004517813.1	Scaffold3015	81620	TT	CC	1947041892
SNP_P4_179286_81648	NW_004517813.1	Scaffold3015	81648	TT	AA	1947041894
SNP_P4_179287_81965	NW_004517813.1	Scaffold3015	81965	GG	AA	1947041896
SNP_P4_179288_81980	NW_004517813.1	Scaffold3015	81980	CC	TT	1947041898
SNP_P4_179289_81981	NW_004517813.1	Scaffold3015	81981	AA	GG	1947041900
SNP_P4_179290_83085	NW_004517813.1	Scaffold3015	83085	TT	CC	1947041902
SNP_P4_179291_85166	NW_004517813.1	Scaffold3015	85166	CC	AA	1947041904
SNP_P4_179292_39228	NW_004517814.1	Scaffold3016	39228	AA	TT	1947041906
SNP_P4_179293_39404	NW_004517814.1	Scaffold3016	39404	TT	AA	1947041908
SNP_P4_179294_57124	NW_004517814.1	Scaffold3016	57124	TT	AA	1947041910
SNP_P4_179295_57133	NW_004517814.1	Scaffold3016	57133	CC	TT	1947041912
SNP_P4_179296_57370	NW_004517814.1	Scaffold3016	57370	TT	AA	1947041914
SNP_P4_179297_57883	NW_004517814.1	Scaffold3016	57883	GG	AA	1947041916
SNP_P4_179298_71915	NW_004517814.1	Scaffold3016	71915	AA	TT	1947041918
SNP_P4_179301_97420	NW_004517814.1	Scaffold3016	97420	AA	CC	1947041920
SNP_P4_179302_97431	NW_004517814.1	Scaffold3016	97431	CC	AA	1947041922
SNP_P4_179303_106352	NW_004517814.1	Scaffold3016	106352	GG	AA	1947041924
SNP_P4_179304_119788	NW_004517814.1	Scaffold3016	119788	GG	AA	1947041926
SNP_P4_179305_119825	NW_004517814.1	Scaffold3016	119825	TT	GG	1947041928
SNP_P4_179306_119843	NW_004517814.1	Scaffold3016	119843	AA	GG	1947041931
SNP_P4_179307_120326	NW_004517814.1	Scaffold3016	120326	TT	CC	1947041933
SNP_P4_179308_120673	NW_004517814.1	Scaffold3016	120673	AA	CC	1947041935
SNP_P4_179309_893	NW_004517815.1	Scaffold3017	893	AA	TT	1947041937
SNP_P4_179310_2520	NW_004517816.1	Scaffold3018	2520	TT	CC	1947041939
SNP_P4_179311_3944	NW_004517816.1	Scaffold3018	3944	TT	CC	1947041941
SNP_P4_179312_4240	NW_004517816.1	Scaffold3018	4240	GG	AA	1947041943
SNP_P4_179313_4245	NW_004517816.1	Scaffold3018	4245	TT	AA	1947041945
SNP_P4_179314_6344	NW_004517816.1	Scaffold3018	6344	AA	GG	1947041947
SNP_P4_179315_6968	NW_004517816.1	Scaffold3018	6968	TT	CC	1947041949
SNP_P4_179316_448	NW_004517817.1	Scaffold3019	448	AA	CC	1947041951
SNP_P4_179317_893	NW_004517817.1	Scaffold3019	893	TT	CC	1947041953
SNP_P4_179318_938	NW_004517817.1	Scaffold3019	938	TT	CC	1947041955
SNP_P4_179320_17705	NW_004517817.1	Scaffold3019	17705	CC	AA	1947041957
SNP_P4_179321_18139	NW_004517817.1	Scaffold3019	18139	AA	CC	1947041959
SNP_P4_179322_18321	NW_004517817.1	Scaffold3019	18321	CC	GG	1947041961
SNP_P4_179323_18382	NW_004517817.1	Scaffold3019	18382	CC	AA	1947041963
SNP_P4_179324_18501	NW_004517817.1	Scaffold3019	18501	TT	CC	1947041965
SNP_P4_179325_18668	NW_004517817.1	Scaffold3019	18668	CC	AA	1947041967
SNP_P4_179326_18808	NW_004517817.1	Scaffold3019	18808	GG	AA	1947041969

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_179328_18937	NW_004517817.1	Scaffold3019	18937	AA	CC	1947041973
SNP_P4_179329_18957	NW_004517817.1	Scaffold3019	18957	GG	TT	1947041975
SNP_P4_179330_19620	NW_004517817.1	Scaffold3019	19620	GG	AA	1947041977
SNP_P4_179331_19622	NW_004517817.1	Scaffold3019	19622	AA	TT	1947041979
SNP_P4_179332_19883	NW_004517817.1	Scaffold3019	19883	GG	TT	1947041981
SNP_P4_179333_19966	NW_004517817.1	Scaffold3019	19966	AA	TT	1947041983
SNP_P4_179334_19975	NW_004517817.1	Scaffold3019	19975	AA	CC	1947041985
SNP_P4_179335_20131	NW_004517817.1	Scaffold3019	20131	CC	TT	1947041987
SNP_P4_179336_20303	NW_004517817.1	Scaffold3019	20303	CC	AA	1947041989
SNP_P4_179337_20406	NW_004517817.1	Scaffold3019	20406	CC	TT	1947041991
SNP_P4_179338_20408	NW_004517817.1	Scaffold3019	20408	GG	TT	1947041993
SNP_P4_179339_20499	NW_004517817.1	Scaffold3019	20499	TT	GG	1947041995
SNP_P4_179340_20510	NW_004517817.1	Scaffold3019	20510	AA	GG	1947041997
SNP_P4_179341_20607	NW_004517817.1	Scaffold3019	20607	GG	TT	1947041999
SNP_P4_179342_20611	NW_004517817.1	Scaffold3019	20611	AA	CC	1947042001
SNP_P4_179343_20792	NW_004517817.1	Scaffold3019	20792	TT	CC	1947042003
SNP_P4_179344_20795	NW_004517817.1	Scaffold3019	20795	AA	CC	1947042005
SNP_P4_179346_20918	NW_004517817.1	Scaffold3019	20918	CC	TT	1947042007
SNP_P4_179347_21243	NW_004517817.1	Scaffold3019	21243	TT	AA	1947042009
SNP_P4_179349_21329	NW_004517817.1	Scaffold3019	21329	AA	GG	1947042011
SNP_P4_179350_21343	NW_004517817.1	Scaffold3019	21343	TT	AA	1947042013
SNP_P4_179351_21395	NW_004517817.1	Scaffold3019	21395	AA	GG	1947042015
SNP_P4_179352_21432	NW_004517817.1	Scaffold3019	21432	CC	TT	1947042017
SNP_P4_179353_21502	NW_004517817.1	Scaffold3019	21502	CC	AA	1947042019
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SNP_P4_179356_2450	NW_004517820.1	Scaffold3022	2450	GG	CC	1947042023
SNP_P4_179357_6784	NW_004517820.1	Scaffold3022	6784	CC	TT	1947042024
SNP_P4_179358_6806	NW_004517820.1	Scaffold3022	6806	GG	AA	1947042026
SNP_P4_179359_6904	NW_004517820.1	Scaffold3022	6904	GG	AA	1947042028
SNP_P4_179360_7075	NW_004517820.1	Scaffold3022	7075	AA	GG	1947042030
SNP_P4_179361_7088	NW_004517820.1	Scaffold3022	7088	GG	TT	1947042032
SNP_P4_179362_7108	NW_004517820.1	Scaffold3022	7108	TT	CC	1947042034
SNP_P4_179363_7459	NW_004517820.1	Scaffold3022	7459	GG	AA	1947042036
SNP_P4_179364_9756	NW_004517820.1	Scaffold3022	9756	AA	GG	1947042038
SNP_P4_179365_10589	NW_004517820.1	Scaffold3022	10589	AA	GG	1947042040
SNP_P4_179366_10623	NW_004517820.1	Scaffold3022	10623	GG	AA	1947042042
SNP_P4_179367_10763	NW_004517820.1	Scaffold3022	10763	AA	CC	1947042044
SNP_P4_179368_13823	NW_004517820.1	Scaffold3022	13823	AA	GG	1947042046
SNP_P4_179369_13830	NW_004517820.1	Scaffold3022	13830	CC	TT	1947042048
SNP_P4_179370_13831	NW_004517820.1	Scaffold3022	13831	AA	GG	1947042050
SNP_P4_179371_13832	NW_004517820.1	Scaffold3022	13832	CC	AA	1947042052

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_179374_20201	NW_004517820.1	Scaffold3022	20201	TT	AA	1947042058
SNP_P4_179375_2684	NW_004517822.1	Scaffold3026	2684	TT	CC	1947042061
SNP_P4_179376_2702	NW_004517822.1	Scaffold3026	2702	AA	CC	1947042063
SNP_P4_179377_2726	NW_004517822.1	Scaffold3026	2726	AA	TT	1947042064
SNP_P4_179378_2887	NW_004517822.1	Scaffold3026	2887	CC	TT	1947042066
SNP_P4_179379_2891	NW_004517822.1	Scaffold3026	2891	TT	CC	1947042068
SNP_P4_179380_2955	NW_004517822.1	Scaffold3026	2955	AA	GG	1947042070
SNP_P4_179381_5101	NW_004517822.1	Scaffold3026	5101	GG	AA	1947042072
SNP_P4_179382_5171	NW_004517822.1	Scaffold3026	5171	TT	CC	1947042075
SNP_P4_179383_5192	NW_004517822.1	Scaffold3026	5192	CC	TT	1947042077
SNP_P4_179384_5423	NW_004517822.1	Scaffold3026	5423	TT	AA	1947042079
SNP_P4_179385_5449	NW_004517822.1	Scaffold3026	5449	GG	AA	1947042081
SNP_P4_179386_5453	NW_004517822.1	Scaffold3026	5453	AA	TT	1947042083
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SNP_P4_179398_3717	NW_004517823.1	Scaffold3028	3717	CC	AA	1947042106
SNP_P4_179399_7564	NW_004517823.1	Scaffold3028	7564	GG	AA	1947042108
SNP_P4_179400_7893	NW_004517823.1	Scaffold3028	7893	AA	GG	1947042110
SNP_P4_179401_7908	NW_004517823.1	Scaffold3028	7908	CC	GG	1947042112
SNP_P4_179402_64	NW_004517824.1	Scaffold3029	64	TT	AA	1947042114
SNP_P4_179404_131	NW_004517824.1	Scaffold3029	131	GG	AA	1947042116
SNP_P4_179405_363	NW_004517824.1	Scaffold3029	363	CC	GG	1947042118
SNP_P4_179407_582	NW_004517824.1	Scaffold3029	582	GG	CC	1947042120
SNP_P4_179408_585	NW_004517824.1	Scaffold3029	585	AA	TT	1947042122
SNP_P4_179409_592	NW_004517824.1	Scaffold3029	592	GG	CC	1947042124
SNP_P4_179410_596	NW_004517824.1	Scaffold3029	596	TT	AA	1947042126
SNP_P4_179411_634	NW_004517824.1	Scaffold3029	634	TT	CC	1947042128
SNP_P4_179412_10466	NW_004517824.1	Scaffold3029	10466	CC	AA	1947042130
SNP_P4_179413_10474	NW_004517824.1	Scaffold3029	10474	AA	TT	1947042132
SNP_P4_179414_14640	NW_004517824.1	Scaffold3029	14640	CC	AA	1947042134
SNP_P4_179415_14672	NW_004517824.1	Scaffold3029	14672	AA	GG	1947042136

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_179417_14677	NW_004517824.1	Scaffold3029	14677	TT	GG	1947042140
SNP_P4_179418_14858	NW_004517824.1	Scaffold3029	14858	GG	CC	1947042142
SNP_P4_179420_15238	NW_004517824.1	Scaffold3029	15238	CC	TT	1947042144
SNP_P4_179421_15253	NW_004517824.1	Scaffold3029	15253	CC	TT	1947042146
SNP_P4_179422_153	NW_004517825.1	Scaffold3030	153	CC	TT	1947042148
SNP_P4_179423_7853	NW_004517827.1	Scaffold3032	7853	CC	TT	1947042150
SNP_P4_179424_7952	NW_004517827.1	Scaffold3032	7952	TT	AA	1947042153
SNP_P4_179425_11182	NW_004517827.1	Scaffold3032	11182	CC	TT	1947042155
SNP_P4_179426_11604	NW_004517827.1	Scaffold3032	11604	TT	AA	1947042157
SNP_P4_179427_12148	NW_004517827.1	Scaffold3032	12148	GG	AA	1947042159
SNP_P4_179429_894	NW_004517828.1	Scaffold3033	894	CC	AA	1947042161
SNP_P4_179431_17440	NW_004517831.1	Scaffold3038	17440	CC	TT	1947042163
SNP_P4_179432_17478	NW_004517831.1	Scaffold3038	17478	CC	GG	1947042165
SNP_P4_179433_17664	NW_004517831.1	Scaffold3038	17664	TT	CC	1947042167
SNP_P4_179434_17666	NW_004517831.1	Scaffold3038	17666	GG	TT	1947042169
SNP_P4_179435_17699	NW_004517831.1	Scaffold3038	17699	AA	CC	1947042171
SNP_P4_179436_17759	NW_004517831.1	Scaffold3038	17759	AA	TT	1947042173
SNP_P4_179437_17936	NW_004517831.1	Scaffold3038	17936	GG	AA	1947042175
SNP_P4_179438_19202	NW_004517831.1	Scaffold3038	19202	GG	AA	1947042177
SNP_P4_179439_19214	NW_004517831.1	Scaffold3038	19214	TT	GG	1947042179
SNP_P4_179440_19306	NW_004517831.1	Scaffold3038	19306	TT	CC	1947042181
SNP_P4_179441_21490	NW_004517831.1	Scaffold3038	21490	TT	CC	1947042183
SNP_P4_179442_21646	NW_004517831.1	Scaffold3038	21646	GG	CC	1947042185
SNP_P4_179443_24177	NW_004517831.1	Scaffold3038	24177	CC	GG	1947042187
SNP_P4_179444_24308	NW_004517831.1	Scaffold3038	24308	GG	AA	1947042189
SNP_P4_179445_24588	NW_004517831.1	Scaffold3038	24588	CC	AA	1947042191
SNP_P4_179446_24966	NW_004517831.1	Scaffold3038	24966	TT	CC	1947042193
SNP_P4_179447_24982	NW_004517831.1	Scaffold3038	24982	TT	GG	1947042195
SNP_P4_179448_47762	NW_004517831.1	Scaffold3038	47762	GG	TT	1947042197
SNP_P4_179449_47778	NW_004517831.1	Scaffold3038	47778	AA	TT	1947042199
SNP_P4_179450_47799	NW_004517831.1	Scaffold3038	47799	AA	GG	1947042201
SNP_P4_179451_48704	NW_004517831.1	Scaffold3038	48704	TT	AA	1947042203
SNP_P4_179452_14422	NW_004517836.1	Scaffold3046	14422	CC	TT	1947042205
SNP_P4_179454_14477	NW_004517836.1	Scaffold3046	14477	CC	GG	1947042207
SNP_P4_179455_14501	NW_004517836.1	Scaffold3046	14501	CC	AA	1947042209
SNP_P4_179456_14517	NW_004517836.1	Scaffold3046	14517	TT	GG	1947042211
SNP_P4_179457_417	NW_004517839.1	Scaffold3049	417	TT	CC	1947042213
SNP_P4_179458_501	NW_004517839.1	Scaffold3049	501	AA	GG	1947042215
SNP_P4_179459_878	NW_004517839.1	Scaffold3049	878	GG	AA	1947042217
SNP_P4_179460_879	NW_004517839.1	Scaffold3049	879	AA	CC	1947042220
SNP_P4_179461_1073	NW_004517839.1	Scaffold3049	1073	GG	TT	1947042222

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_179463_178	NW_004517840.1	Scaffold3050	178	CC	TT	1947042226
SNP_P4_179464_458	NW_004517840.1	Scaffold3050	458	TT	AA	1947042228
SNP_P4_179465_725	NW_004517840.1	Scaffold3050	725	CC	GG	1947042230
SNP_P4_179466_737	NW_004517840.1	Scaffold3050	737	CC	AA	1947042232
SNP_P4_179467_4729	NW_004517841.1	Scaffold3051	4729	TT	CC	1947042234
SNP_P4_179468_4814	NW_004517841.1	Scaffold3051	4814	AA	TT	1947042236
SNP_P4_179469_4874	NW_004517841.1	Scaffold3051	4874	GG	CC	1947042238
SNP_P4_179470_4877	NW_004517841.1	Scaffold3051	4877	TT	CC	1947042240
SNP_P4_179471_4964	NW_004517841.1	Scaffold3051	4964	GG	CC	1947042242
SNP_P4_179472_4976	NW_004517841.1	Scaffold3051	4976	GG	AA	1947042244
SNP_P4_179473_4994	NW_004517841.1	Scaffold3051	4994	AA	GG	1947042246
SNP_P4_179474_5093	NW_004517841.1	Scaffold3051	5093	CC	TT	1947042248
SNP_P4_179475_5209	NW_004517841.1	Scaffold3051	5209	GG	CC	1947042250
SNP_P4_179476_5236	NW_004517841.1	Scaffold3051	5236	CC	TT	1947042252
SNP_P4_179477_5282	NW_004517841.1	Scaffold3051	5282	AA	GG	1947042254
SNP_P4_179478_5292	NW_004517841.1	Scaffold3051	5292	GG	AA	1947042256
SNP_P4_179479_5301	NW_004517841.1	Scaffold3051	5301	GG	AA	1947042258
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SNP_P4_179481_5559	NW_004517841.1	Scaffold3051	5559	GG	TT	1947042262
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SNP_P4_179485_7825	NW_004517841.1	Scaffold3051	7825	CC	TT	1947042270
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SNP_P4_179487_8204	NW_004517841.1	Scaffold3051	8204	AA	TT	1947042274
SNP_P4_179488_8208	NW_004517841.1	Scaffold3051	8208	CC	TT	1947042276
SNP_P4_179489_8456	NW_004517841.1	Scaffold3051	8456	GG	CC	1947042278
SNP_P4_179490_8496	NW_004517841.1	Scaffold3051	8496	TT	CC	1947042280
SNP_P4_179491_8497	NW_004517841.1	Scaffold3051	8497	CC	TT	1947042314
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SNP_P4_179493_10814	NW_004517841.1	Scaffold3051	10814	TT	CC	1947042318
SNP_P4_179494_16858	NW_004517841.1	Scaffold3051	16858	GG	CC	1947042320
SNP_P4_179495_16880	NW_004517841.1	Scaffold3051	16880	GG	CC	1947042322
SNP_P4_179496_17104	NW_004517841.1	Scaffold3051	17104	GG	TT	1947042324
SNP_P4_179497_17321	NW_004517841.1	Scaffold3051	17321	AA	GG	1947042326
SNP_P4_179498_17833	NW_004517841.1	Scaffold3051	17833	AA	GG	1947042328
SNP_P4_179499_17877	NW_004517841.1	Scaffold3051	17877	CC	AA	1947042330
SNP_P4_179500_18526	NW_004517841.1	Scaffold3051	18526	TT	GG	1947042332
SNP_P4_179501_18573	NW_004517841.1	Scaffold3051	18573	TT	CC	1947042334
SNP_P4_179502_18644	NW_004517841.1	Scaffold3051	18644	CC	AA	1947042336
SNP_P4_179503_18862	NW_004517841.1	Scaffold3051	18862	GG	TT	1947042338

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_179506_1556	NW_004517842.1	Scaffold3052	1556	CC	GG	1947042342
SNP_P4_179507_5022	NW_004517842.1	Scaffold3052	5022	AA	GG	1947042344
SNP_P4_179508_9375	NW_004517842.1	Scaffold3052	9375	GG	AA	1947042345
SNP_P4_179509_16645	NW_004517842.1	Scaffold3052	16645	CC	TT	1947042347
SNP_P4_179510_1190	NW_004517844.1	Scaffold3057	1190	TT	AA	1947042349
SNP_P4_179511_4100	NW_004517844.1	Scaffold3057	4100	GG	CC	1947042351
SNP_P4_179512_4320	NW_004517844.1	Scaffold3057	4320	CC	GG	1947042353
SNP_P4_179513_4455	NW_004517844.1	Scaffold3057	4455	CC	AA	1947042355
SNP_P4_179515_23877	NW_004517845.1	Scaffold3058	23877	GG	AA	1947042357
SNP_P4_179516_27653	NW_004517845.1	Scaffold3058	27653	GG	AA	1947042359
SNP_P4_179517_27721	NW_004517845.1	Scaffold3058	27721	AA	CC	1947042361
SNP_P4_179518_27774	NW_004517845.1	Scaffold3058	27774	TT	AA	1947042363
SNP_P4_179519_27787	NW_004517845.1	Scaffold3058	27787	TT	CC	1947042365
SNP_P4_179520_27811	NW_004517845.1	Scaffold3058	27811	AA	CC	1947042367
SNP_P4_179521_27813	NW_004517845.1	Scaffold3058	27813	CC	AA	1947042369
SNP_P4_179522_28016	NW_004517845.1	Scaffold3058	28016	GG	AA	1947042371
SNP_P4_179523_28053	NW_004517845.1	Scaffold3058	28053	GG	AA	1947042373
SNP_P4_179524_28063	NW_004517845.1	Scaffold3058	28063	CC	GG	1947042375
SNP_P4_179525_28092	NW_004517845.1	Scaffold3058	28092	GG	TT	1947042377
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SNP_P4_179527_1388	NW_004517846.1	Scaffold3059	1388	GG	AA	1947042381
SNP_P4_179528_1390	NW_004517846.1	Scaffold3059	1390	CC	TT	1947042383
SNP_P4_179529_1411	NW_004517846.1	Scaffold3059	1411	TT	CC	1947042384
SNP_P4_179530_2128	NW_004517846.1	Scaffold3059	2128	GG	AA	1947042386
SNP_P4_179531_2405	NW_004517846.1	Scaffold3059	2405	TT	AA	1947042388
SNP_P4_179532_3019	NW_004517846.1	Scaffold3059	3019	AA	GG	1947042390
SNP_P4_179533_3687	NW_004517846.1	Scaffold3059	3687	AA	GG	1947042392
SNP_P4_179534_4008	NW_004517846.1	Scaffold3059	4008	GG	TT	1947042394
SNP_P4_179535_4469	NW_004517846.1	Scaffold3059	4469	GG	AA	1947042396
SNP_P4_179536_4758	NW_004517846.1	Scaffold3059	4758	GG	CC	1947042398
SNP_P4_179537_4832	NW_004517846.1	Scaffold3059	4832	CC	AA	1947042400
SNP_P4_179538_94	NW_004517848.1	Scaffold3061	94	TT	CC	1947042402
SNP_P4_179539_192	NW_004517848.1	Scaffold3061	192	AA	GG	1947042404
SNP_P4_179540_457	NW_004517848.1	Scaffold3061	457	GG	AA	1947042406
SNP_P4_179541_512	NW_004517848.1	Scaffold3061	512	CC	TT	1947042408
SNP_P4_179542_580	NW_004517848.1	Scaffold3061	580	AA	TT	1947042410
SNP_P4_179543_591	NW_004517848.1	Scaffold3061	591	GG	AA	1947042412
SNP_P4_179545_619	NW_004517848.1	Scaffold3061	619	CC	TT	1947042414
SNP_P4_179546_620	NW_004517848.1	Scaffold3061	620	GG	CC	1947042416
SNP_P4_179547_682	NW_004517848.1	Scaffold3061	682	AA	GG	1947042418
SNP_P4_179548_689	NW_004517848.1	Scaffold3061	689	TT	CC	1947042420

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_179550_718	NW_004517848.1	Scaffold3061	718	CC	TT	1947042424
SNP_P4_179551_750	NW_004517848.1	Scaffold3061	750	CC	AA	1947042426
SNP_P4_179552_779	NW_004517848.1	Scaffold3061	779	AA	GG	1947042428
SNP_P4_179553_794	NW_004517848.1	Scaffold3061	794	TT	CC	1947042430
SNP_P4_179554_820	NW_004517848.1	Scaffold3061	820	AA	GG	1947042432
SNP_P4_179555_2107	NW_004517850.1	Scaffold3064	2107	GG	AA	1947042434
SNP_P4_179556_2258	NW_004517850.1	Scaffold3064	2258	CC	AA	1947042436
SNP_P4_179557_2259	NW_004517850.1	Scaffold3064	2259	AA	GG	1947042438
SNP_P4_179558_1872	NW_004517851.1	Scaffold3067	1872	CC	TT	1947042440
SNP_P4_179559_2028	NW_004517851.1	Scaffold3067	2028	AA	GG	1947042441
SNP_P4_179561_939	NW_004517856.1	Scaffold3074	939	AA	GG	1947042443
SNP_P4_179562_1124	NW_004517857.1	Scaffold3075	1124	TT	CC	1947042445
SNP_P4_179563_264	NW_004517858.1	Scaffold3076	264	CC	TT	1947042447
SNP_P4_179564_317	NW_004517858.1	Scaffold3076	317	TT	CC	1947042449
SNP_P4_179565_506	NW_004517858.1	Scaffold3076	506	GG	TT	1947042451
SNP_P4_179566_530	NW_004517858.1	Scaffold3076	530	TT	CC	1947042453
SNP_P4_179567_588	NW_004517858.1	Scaffold3076	588	GG	TT	1947042455
SNP_P4_179568_641	NW_004517858.1	Scaffold3076	641	CC	TT	1947042457
SNP_P4_179569_705	NW_004517858.1	Scaffold3076	705	AA	GG	1947042459
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SNP_P4_179572_1655	NW_004517858.1	Scaffold3076	1655	CC	TT	1947042464
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SNP_P4_179574_1950	NW_004517858.1	Scaffold3076	1950	CC	AA	1947042468
SNP_P4_179575_1988	NW_004517858.1	Scaffold3076	1988	TT	GG	1947042470
SNP_P4_179576_2013	NW_004517858.1	Scaffold3076	2013	AA	TT	1947042472
SNP_P4_179577_10919	NW_004517858.1	Scaffold3076	10919	GG	AA	1947042474
SNP_P4_179578_10945	NW_004517858.1	Scaffold3076	10945	TT	AA	1947042476
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SNP_P4_179581_11233	NW_004517858.1	Scaffold3076	11233	CC	TT	1947042481
SNP_P4_179582_12931	NW_004517858.1	Scaffold3076	12931	GG	TT	1947042483
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SNP_P4_179586_6413	NW_004517860.1	Scaffold3079	6413	GG	AA	1947042491
SNP_P4_179587_6453	NW_004517860.1	Scaffold3079	6453	AA	TT	1947042493
SNP_P4_179588_6720	NW_004517860.1	Scaffold3079	6720	TT	CC	1947042495
SNP_P4_179589_6751	NW_004517860.1	Scaffold3079	6751	CC	TT	1947042497
SNP_P4_179590_6767	NW_004517860.1	Scaffold3079	6767	CC	GG	1947042499
SNP_P4_179591_6808	NW_004517860.1	Scaffold3079	6808	CC	TT	1947042501

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_179594_7405	NW_004517862.1	Scaffold3082	7405	TT	CC	1947042507
SNP_P4_179595_7413	NW_004517862.1	Scaffold3082	7413	AA	CC	1947042509
SNP_P4_179596_7421	NW_004517862.1	Scaffold3082	7421	AA	TT	1947042511
SNP_P4_179597_7459	NW_004517862.1	Scaffold3082	7459	AA	GG	1947042513
SNP_P4_179598_7460	NW_004517862.1	Scaffold3082	7460	CC	TT	1947042515
SNP_P4_179599_7476	NW_004517862.1	Scaffold3082	7476	AA	CC	1947042517
SNP_P4_179600_7539	NW_004517862.1	Scaffold3082	7539	AA	TT	1947042519
SNP_P4_179602_360	NW_004517868.1	Scaffold3092	360	TT	AA	1947042521
SNP_P4_179603_361	NW_004517868.1	Scaffold3092	361	TT	AA	1947042523
SNP_P4_179604_426	NW_004517868.1	Scaffold3092	426	GG	AA	1947042525
SNP_P4_179606_1267	NW_004517868.1	Scaffold3092	1267	AA	CC	1947042527
SNP_P4_179607_1590	NW_004517868.1	Scaffold3092	1590	CC	TT	1947042529
SNP_P4_179608_19377	NW_004517869.1	Scaffold3093	19377	AA	GG	1947042531
SNP_P4_179610_19792	NW_004517869.1	Scaffold3093	19792	AA	GG	1947042533
SNP_P4_179611_20130	NW_004517869.1	Scaffold3093	20130	GG	CC	1947042535
SNP_P4_179612_20166	NW_004517869.1	Scaffold3093	20166	GG	CC	1947042537
SNP_P4_179613_552	NW_004517870.1	Scaffold3094	552	CC	TT	1947042539
SNP_P4_179614_9894	NW_004517870.1	Scaffold3094	9894	AA	GG	1947042541
SNP_P4_179615_11911	NW_004517870.1	Scaffold3094	11911	AA	CC	1947042543
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SNP_P4_179617_177	NW_004517871.1	Scaffold3095	177	CC	AA	1947042547
SNP_P4_179618_684	NW_004517871.1	Scaffold3095	684	TT	GG	1947042549
SNP_P4_179619_685	NW_004517871.1	Scaffold3095	685	TT	GG	1947042551
SNP_P4_179620_799	NW_004517871.1	Scaffold3095	799	GG	CC	1947042553
SNP_P4_179621_837	NW_004517871.1	Scaffold3095	837	GG	AA	1947042555
SNP_P4_179622_1001	NW_004517871.1	Scaffold3095	1001	AA	GG	1947042557
SNP_P4_179623_1357	NW_004517871.1	Scaffold3095	1357	TT	CC	1947042559
SNP_P4_179624_1742	NW_004517871.1	Scaffold3095	1742	AA	TT	1947042561
SNP_P4_179625_14225	NW_004517871.1	Scaffold3095	14225	CC	TT	1947042563
SNP_P4_179626_14710	NW_004517871.1	Scaffold3095	14710	AA	TT	1947042565
SNP_P4_179627_14761	NW_004517871.1	Scaffold3095	14761	CC	AA	1947042567
SNP_P4_179628_14794	NW_004517871.1	Scaffold3095	14794	GG	AA	1947042569
SNP_P4_179629_14807	NW_004517871.1	Scaffold3095	14807	TT	CC	1947042571
SNP_P4_179630_14922	NW_004517871.1	Scaffold3095	14922	AA	CC	1947042573
SNP_P4_179631_15091	NW_004517871.1	Scaffold3095	15091	AA	GG	1947042575
SNP_P4_179632_15250	NW_004517871.1	Scaffold3095	15250	AA	TT	1947042577
SNP_P4_179633_15253	NW_004517871.1	Scaffold3095	15253	GG	AA	1947042579
SNP_P4_179634_15684	NW_004517871.1	Scaffold3095	15684	TT	AA	1947042581
SNP_P4_179635_15714	NW_004517871.1	Scaffold3095	15714	CC	AA	1947042583
SNP_P4_179636_15731	NW_004517871.1	Scaffold3095	15731	CC	AA	1947042585

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_179638_15776	NW_004517871.1	Scaffold3095	15776	TT	CC	1947042589
SNP_P4_179639_15788	NW_004517871.1	Scaffold3095	15788	TT	AA	1947042591
SNP_P4_179640_15800	NW_004517871.1	Scaffold3095	15800	TT	GG	1947042593
SNP_P4_179641_15946	NW_004517871.1	Scaffold3095	15946	CC	GG	1947042595
SNP_P4_179642_4981	NW_004517873.1	Scaffold3097	4981	CC	GG	1947042597
SNP_P4_179643_5006	NW_004517873.1	Scaffold3097	5006	CC	TT	1947042599
SNP_P4_179644_5094	NW_004517873.1	Scaffold3097	5094	TT	CC	1947042601
SNP_P4_179645_5183	NW_004517873.1	Scaffold3097	5183	TT	GG	1947042603
SNP_P4_179646_6495	NW_004517873.1	Scaffold3097	6495	GG	TT	1947042605
SNP_P4_179647_6831	NW_004517873.1	Scaffold3097	6831	GG	AA	1947042607
SNP_P4_179648_6850	NW_004517873.1	Scaffold3097	6850	GG	TT	1947042609
SNP_P4_179649_7263	NW_004517873.1	Scaffold3097	7263	GG	AA	1947042610
SNP_P4_179650_7309	NW_004517873.1	Scaffold3097	7309	GG	AA	1947042612
SNP_P4_179651_7314	NW_004517873.1	Scaffold3097	7314	GG	AA	1947042614
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SNP_P4_179656_7630	NW_004517873.1	Scaffold3097	7630	GG	AA	1947042624
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SNP_P4_179658_7724	NW_004517873.1	Scaffold3097	7724	GG	CC	1947042628
SNP_P4_179659_7860	NW_004517873.1	Scaffold3097	7860	TT	GG	1947042630
SNP_P4_179660_8008	NW_004517873.1	Scaffold3097	8008	GG	TT	1947042632
SNP_P4_179661_8027	NW_004517873.1	Scaffold3097	8027	TT	CC	1947042634
SNP_P4_179662_9023	NW_004517873.1	Scaffold3097	9023	CC	AA	1947042636
SNP_P4_179663_9048	NW_004517873.1	Scaffold3097	9048	CC	TT	1947042638
SNP_P4_179664_9327	NW_004517873.1	Scaffold3097	9327	TT	CC	1947042640
SNP_P4_179665_9367	NW_004517873.1	Scaffold3097	9367	AA	GG	1947042642
SNP_P4_179666_9649	NW_004517873.1	Scaffold3097	9649	GG	TT	1947042644
SNP_P4_179667_9812	NW_004517873.1	Scaffold3097	9812	TT	CC	1947042646
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SNP_P4_179672_10680	NW_004517873.1	Scaffold3097	10680	GG	CC	1947042657
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SNP_P4_179674_10706	NW_004517873.1	Scaffold3097	10706	GG	AA	1947042661
SNP_P4_179675_11452	NW_004517873.1	Scaffold3097	11452	CC	GG	1947042663
SNP_P4_179676_11454	NW_004517873.1	Scaffold3097	11454	CC	GG	1947042665
SNP_P4_179677_11458	NW_004517873.1	Scaffold3097	11458	GG	AA	1947042668
SNP_P4_179678_11703	NW_004517873.1	Scaffold3097	11703	CC	TT	1947042670

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_179680_11827	NW_004517873.1	Scaffold3097	11827	TT	CC	1947042674
SNP_P4_179681_1206	NW_004517876.1	Scaffold3100	1206	GG	CC	1947042676
SNP_P4_179682_1238	NW_004517876.1	Scaffold3100	1238	AA	TT	1947042678
SNP_P4_179683_356	NW_004517877.1	Scaffold3101	356	AA	CC	1947042680
SNP_P4_179684_1079	NW_004517878.1	Scaffold3104	1079	CC	GG	1947042682
SNP_P4_179685_472	NW_004517879.1	Scaffold3106	472	CC	TT	1947042684
SNP_P4_179686_526	NW_004517879.1	Scaffold3106	526	TT	CC	1947042686
SNP_P4_179687_535	NW_004517879.1	Scaffold3106	535	GG	AA	1947042688
SNP_P4_179688_538	NW_004517879.1	Scaffold3106	538	AA	CC	1947042690
SNP_P4_179689_540	NW_004517879.1	Scaffold3106	540	CC	TT	1947042692
SNP_P4_179690_698	NW_004517879.1	Scaffold3106	698	AA	CC	1947042694
SNP_P4_179691_705	NW_004517879.1	Scaffold3106	705	GG	AA	1947042696
SNP_P4_179692_722	NW_004517879.1	Scaffold3106	722	GG	CC	1947042698
SNP_P4_179693_754	NW_004517879.1	Scaffold3106	754	CC	AA	1947042700
SNP_P4_179694_815	NW_004517879.1	Scaffold3106	815	AA	GG	1947042702
SNP_P4_179695_1245	NW_004517879.1	Scaffold3106	1245	CC	AA	1947042705
SNP_P4_179696_6231	NW_004517882.1	Scaffold3111	6231	AA	TT	1947042707
SNP_P4_179697_6296	NW_004517882.1	Scaffold3111	6296	GG	AA	1947042709
SNP_P4_179698_6343	NW_004517882.1	Scaffold3111	6343	CC	TT	1947042711
SNP_P4_179699_6433	NW_004517882.1	Scaffold3111	6433	AA	TT	1947042713
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SNP_P4_179701_6467	NW_004517882.1	Scaffold3111	6467	AA	CC	1947042716
SNP_P4_179702_6476	NW_004517882.1	Scaffold3111	6476	AA	GG	1947042717
SNP_P4_179703_7883	NW_004517882.1	Scaffold3111	7883	TT	CC	1947042718
SNP_P4_179704_7929	NW_004517882.1	Scaffold3111	7929	CC	TT	1947042719
SNP_P4_179705_8026	NW_004517882.1	Scaffold3111	8026	CC	AA	1947042720
SNP_P4_179706_8078	NW_004517882.1	Scaffold3111	8078	AA	GG	1947042721
SNP_P4_179707_8121	NW_004517882.1	Scaffold3111	8121	TT	CC	1947042722
SNP_P4_179708_672	NW_004517884.1	Scaffold3115	672	TT	CC	1947042723
SNP_P4_179709_759	NW_004517884.1	Scaffold3115	759	AA	GG	1947042724
SNP_P4_179710_776	NW_004517884.1	Scaffold3115	776	GG	AA	1947042725
SNP_P4_179713_19685	NW_004517884.1	Scaffold3115	19685	AA	GG	1947042727
SNP_P4_179714_19892	NW_004517884.1	Scaffold3115	19892	AA	GG	1947042729
SNP_P4_179715_27553	NW_004517884.1	Scaffold3115	27553	TT	AA	1947042731
SNP_P4_179716_27586	NW_004517884.1	Scaffold3115	27586	TT	CC	1947042733
SNP_P4_179717_27702	NW_004517884.1	Scaffold3115	27702	TT	AA	1947042735
SNP_P4_179718_27928	NW_004517884.1	Scaffold3115	27928	AA	GG	1947042737
SNP_P4_179719_28063	NW_004517884.1	Scaffold3115	28063	AA	GG	1947042739
SNP_P4_179720_46583	NW_004517884.1	Scaffold3115	46583	AA	TT	1947042741
SNP_P4_179722_47044	NW_004517884.1	Scaffold3115	47044	GG	AA	1947042743
SNP_P4_179723_47086	NW_004517884.1	Scaffold3115	47086	CC	AA	1947042746

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_179725_47158	NW_004517884.1	Scaffold3115	47158	AA	TT	1947042750
SNP_P4_179726_48632	NW_004517884.1	Scaffold3115	48632	TT	CC	1947042752
SNP_P4_179727_48885	NW_004517884.1	Scaffold3115	48885	CC	AA	1947042754
SNP_P4_179728_48892	NW_004517884.1	Scaffold3115	48892	CC	TT	1947042756
SNP_P4_179730_50025	NW_004517884.1	Scaffold3115	50025	CC	TT	1947042758
SNP_P4_179731_54015	NW_004517884.1	Scaffold3115	54015	CC	TT	1947042761
SNP_P4_179733_61804	NW_004517884.1	Scaffold3115	61804	TT	AA	1947042763
SNP_P4_179734_61879	NW_004517884.1	Scaffold3115	61879	CC	GG	1947042765
SNP_P4_179735_62021	NW_004517884.1	Scaffold3115	62021	GG	AA	1947042767
SNP_P4_179736_62226	NW_004517884.1	Scaffold3115	62226	AA	GG	1947042769
SNP_P4_179737_62572	NW_004517884.1	Scaffold3115	62572	CC	TT	1947042771
SNP_P4_179741_63828	NW_004517884.1	Scaffold3115	63828	CC	TT	1947042773
SNP_P4_179742_63876	NW_004517884.1	Scaffold3115	63876	CC	AA	1947042775
SNP_P4_179743_63939	NW_004517884.1	Scaffold3115	63939	TT	CC	1947042777
SNP_P4_179745_64037	NW_004517884.1	Scaffold3115	64037	GG	TT	1947042779
SNP_P4_179747_69550	NW_004517884.1	Scaffold3115	69550	CC	TT	1947042781
SNP_P4_179748_69562	NW_004517884.1	Scaffold3115	69562	GG	AA	1947042783
SNP_P4_179749_77055	NW_004517884.1	Scaffold3115	77055	AA	TT	1947042785
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SNP_P4_179751_78452	NW_004517884.1	Scaffold3115	78452	AA	GG	1947042789
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SNP_P4_179754_78862	NW_004517884.1	Scaffold3115	78862	AA	GG	1947042795
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SNP_P4_179756_87877	NW_004517884.1	Scaffold3115	87877	AA	TT	1947042799
SNP_P4_179757_88183	NW_004517884.1	Scaffold3115	88183	GG	TT	1947042801
SNP_P4_179758_88207	NW_004517884.1	Scaffold3115	88207	CC	AA	1947042803
SNP_P4_179759_88209	NW_004517884.1	Scaffold3115	88209	AA	GG	1947042805
SNP_P4_179760_88210	NW_004517884.1	Scaffold3115	88210	CC	TT	1947042807
SNP_P4_179761_88215	NW_004517884.1	Scaffold3115	88215	GG	AA	1947042809
SNP_P4_179762_88254	NW_004517884.1	Scaffold3115	88254	GG	TT	1947042811
SNP_P4_179763_97071	NW_004517884.1	Scaffold3115	97071	CC	TT	1947042813
SNP_P4_179765_23493	NW_004517885.1	Scaffold3116	23493	TT	GG	1947042815
SNP_P4_179766_64	NW_004517886.1	Scaffold3117	64	AA	TT	1947042817
SNP_P4_179767_66	NW_004517886.1	Scaffold3117	66	TT	GG	1947042819
SNP_P4_179768_80	NW_004517886.1	Scaffold3117	80	TT	GG	1947042822
SNP_P4_179769_91	NW_004517886.1	Scaffold3117	91	AA	CC	1947042824
SNP_P4_179770_1866	NW_004517887.1	Scaffold3118	1866	CC	AA	1947042826
SNP_P4_179771_1871	NW_004517887.1	Scaffold3118	1871	TT	GG	1947042828
SNP_P4_179772_1926	NW_004517887.1	Scaffold3118	1926	GG	CC	1947042830
SNP_P4_179773_3508	NW_004517887.1	Scaffold3118	3508	GG	TT	1947042832

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_179776_3729	NW_004517887.1	Scaffold3118	3729	TT	CC	1947042838
SNP_P4_179778_6534	NW_004517887.1	Scaffold3118	6534	TT	AA	1947042840
SNP_P4_179779_6568	NW_004517887.1	Scaffold3118	6568	AA	CC	1947042842
SNP_P4_179780_6580	NW_004517887.1	Scaffold3118	6580	CC	GG	1947042844
SNP_P4_179781_6582	NW_004517887.1	Scaffold3118	6582	CC	AA	1947042846
SNP_P4_179782_6586	NW_004517887.1	Scaffold3118	6586	GG	AA	1947042848
SNP_P4_179783_6607	NW_004517887.1	Scaffold3118	6607	AA	GG	1947042850
SNP_P4_179784_6824	NW_004517887.1	Scaffold3118	6824	AA	GG	1947042852
SNP_P4_179785_6888	NW_004517887.1	Scaffold3118	6888	AA	TT	1947042854
SNP_P4_179786_4792	NW_004517890.1	Scaffold3121	4792	TT	CC	1947042857
SNP_P4_179787_4801	NW_004517890.1	Scaffold3121	4801	TT	AA	1947042859
SNP_P4_179788_4816	NW_004517890.1	Scaffold3121	4816	AA	GG	1947042861
SNP_P4_179789_6319	NW_004517890.1	Scaffold3121	6319	CC	TT	1947042863
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SNP_P4_179793_8063	NW_004517890.1	Scaffold3121	8063	TT	CC	1947042869
SNP_P4_179794_8064	NW_004517890.1	Scaffold3121	8064	AA	CC	1947042871
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SNP_P4_179796_8883	NW_004517890.1	Scaffold3121	8883	CC	TT	1947042875
SNP_P4_179797_8932	NW_004517890.1	Scaffold3121	8932	TT	CC	1947042877
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SNP_P4_179807_3648	NW_004517892.1	Scaffold3124	3648	GG	AA	1947042898
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SNP_P4_179812_4040	NW_004517892.1	Scaffold3124	4040	CC	GG	1947042908
SNP_P4_179813_4047	NW_004517892.1	Scaffold3124	4047	AA	TT	1947042910
SNP_P4_179814_4186	NW_004517892.1	Scaffold3124	4186	TT	GG	1947042912
SNP_P4_179815_4222	NW_004517892.1	Scaffold3124	4222	TT	GG	1947042914
SNP_P4_179816_4254	NW_004517892.1	Scaffold3124	4254	TT	GG	1947042916
SNP_P4_179817_1674	NW_004517893.1	Scaffold3125	1674	GG	TT	1947042918

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_179819_1759	NW_004517893.1	Scaffold3125	1759	AA	TT	1947042922
SNP_P4_179820_1928	NW_004517893.1	Scaffold3125	1928	CC	TT	1947042924
SNP_P4_179821_601	NW_004517894.1	Scaffold3126	601	AA	CC	1947042926
SNP_P4_179822_20311	NW_004517894.1	Scaffold3126	20311	AA	GG	1947042928
SNP_P4_179823_20327	NW_004517894.1	Scaffold3126	20327	CC	TT	1947042930
SNP_P4_179824_20355	NW_004517894.1	Scaffold3126	20355	AA	GG	1947042932
SNP_P4_179825_20360	NW_004517894.1	Scaffold3126	20360	CC	TT	1947042934
SNP_P4_179826_20369	NW_004517894.1	Scaffold3126	20369	CC	TT	1947042936
SNP_P4_179827_20399	NW_004517894.1	Scaffold3126	20399	AA	GG	1947042938
SNP_P4_179828_20420	NW_004517894.1	Scaffold3126	20420	AA	GG	1947042940
SNP_P4_179829_20435	NW_004517894.1	Scaffold3126	20435	GG	AA	1947042942
SNP_P4_179830_20442	NW_004517894.1	Scaffold3126	20442	GG	CC	1947042944
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SNP_P4_179832_20445	NW_004517894.1	Scaffold3126	20445	CC	AA	1947042948
SNP_P4_179833_20449	NW_004517894.1	Scaffold3126	20449	AA	TT	1947042950
SNP_P4_179834_20450	NW_004517894.1	Scaffold3126	20450	TT	AA	1947042952
SNP_P4_179835_64	NW_004517895.1	Scaffold3127	64	AA	GG	1947042954
SNP_P4_179836_83	NW_004517895.1	Scaffold3127	83	TT	AA	1947042956
SNP_P4_179838_279	NW_004517895.1	Scaffold3127	279	GG	TT	1947042958
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SNP_P4_179859_4791	NW_004517895.1	Scaffold3127	4791	TT	AA	1947042998
SNP_P4_179860_4798	NW_004517895.1	Scaffold3127	4798	AA	CC	1947043000
SNP_P4_179861_8774	NW_004517895.1	Scaffold3127	8774	CC	TT	1947043002

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_179863_8834	NW_004517895.1	Scaffold3127	8834	GG	CC	1947043004
SNP_P4_179865_8880	NW_004517895.1	Scaffold3127	8880	GG	AA	1947043006
SNP_P4_179866_8890	NW_004517895.1	Scaffold3127	8890	TT	GG	1947043008
SNP_P4_179867_8984	NW_004517895.1	Scaffold3127	8984	GG	AA	1947043010
SNP_P4_179868_9175	NW_004517895.1	Scaffold3127	9175	AA	TT	1947043012
SNP_P4_179869_9484	NW_004517895.1	Scaffold3127	9484	TT	CC	1947043013
SNP_P4_179870_9700	NW_004517895.1	Scaffold3127	9700	AA	GG	1947043015
SNP_P4_179871_9838	NW_004517895.1	Scaffold3127	9838	CC	AA	1947043017
SNP_P4_179872_9876	NW_004517895.1	Scaffold3127	9876	TT	AA	1947043019
SNP_P4_179873_9878	NW_004517895.1	Scaffold3127	9878	GG	TT	1947043021
SNP_P4_179874_9885	NW_004517895.1	Scaffold3127	9885	AA	GG	1947043023
SNP_P4_179875_9919	NW_004517895.1	Scaffold3127	9919	GG	CC	1947043025
SNP_P4_179877_10175	NW_004517895.1	Scaffold3127	10175	TT	AA	1947043027
SNP_P4_179878_12083	NW_004517895.1	Scaffold3127	12083	CC	TT	1947043029
SNP_P4_179879_12084	NW_004517895.1	Scaffold3127	12084	CC	TT	1947043031
SNP_P4_179880_12095	NW_004517895.1	Scaffold3127	12095	GG	AA	1947043033
SNP_P4_179881_12113	NW_004517895.1	Scaffold3127	12113	AA	TT	1947043035
SNP_P4_179882_12116	NW_004517895.1	Scaffold3127	12116	AA	CC	1947043037
SNP_P4_179883_12161	NW_004517895.1	Scaffold3127	12161	AA	CC	1947043039
SNP_P4_179884_12170	NW_004517895.1	Scaffold3127	12170	TT	GG	1947043041
SNP_P4_179885_12264	NW_004517895.1	Scaffold3127	12264	CC	AA	1947043043
SNP_P4_179886_12265	NW_004517895.1	Scaffold3127	12265	TT	AA	1947043045
SNP_P4_179887_12724	NW_004517895.1	Scaffold3127	12724	AA	CC	1947043047
SNP_P4_179888_12743	NW_004517895.1	Scaffold3127	12743	AA	CC	1947043049
SNP_P4_179889_12803	NW_004517895.1	Scaffold3127	12803	TT	CC	1947043051
SNP_P4_179890_13086	NW_004517895.1	Scaffold3127	13086	AA	GG	1947043053
SNP_P4_179891_13100	NW_004517895.1	Scaffold3127	13100	CC	GG	1947043055
SNP_P4_179892_13103	NW_004517895.1	Scaffold3127	13103	CC	AA	1947043057
SNP_P4_179893_17795	NW_004517895.1	Scaffold3127	17795	GG	TT	1947043059
SNP_P4_179894_18520	NW_004517895.1	Scaffold3127	18520	CC	AA	1947043061
SNP_P4_179895_18663	NW_004517895.1	Scaffold3127	18663	TT	CC	1947043063
SNP_P4_179896_18969	NW_004517895.1	Scaffold3127	18969	AA	GG	1947043065
SNP_P4_179897_19051	NW_004517895.1	Scaffold3127	19051	TT	CC	1947043067
SNP_P4_179898_19239	NW_004517895.1	Scaffold3127	19239	TT	AA	1947043069
SNP_P4_179899_19245	NW_004517895.1	Scaffold3127	19245	AA	GG	1947043071
SNP_P4_179900_21052	NW_004517895.1	Scaffold3127	21052	AA	CC	1947043073
SNP_P4_179901_21700	NW_004517895.1	Scaffold3127	21700	GG	CC	1947043075
SNP_P4_179902_22037	NW_004517895.1	Scaffold3127	22037	CC	TT	1947043077
SNP_P4_179903_302	NW_004517899.1	Scaffold3131	302	AA	TT	1947043079
SNP_P4_179904_485	NW_004517899.1	Scaffold3131	485	AA	CC	1947043081
SNP_P4_179905_534	NW_004517899.1	Scaffold3131	534	GG	AA	1947043083
SNP_P4_179907_729	NW_004517902.1	Scaffold3134	729	AA	GG	1947043085

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_179909_4585	NW_004517902.1	Scaffold3134	4585	AA	CC	1947043089
SNP_P4_179911_5043	NW_004517902.1	Scaffold3134	5043	CC	TT	1947043091
SNP_P4_179912_5055	NW_004517902.1	Scaffold3134	5055	GG	TT	1947043093
SNP_P4_179913_5447	NW_004517902.1	Scaffold3134	5447	TT	CC	1947043095
SNP_P4_179914_5448	NW_004517902.1	Scaffold3134	5448	TT	CC	1947043097
SNP_P4_179915_5453	NW_004517902.1	Scaffold3134	5453	CC	TT	1947043099
SNP_P4_179916_5591	NW_004517902.1	Scaffold3134	5591	CC	AA	1947043101
SNP_P4_179917_5687	NW_004517902.1	Scaffold3134	5687	AA	TT	1947043103
SNP_P4_179918_5790	NW_004517902.1	Scaffold3134	5790	TT	AA	1947043105
SNP_P4_179919_12055	NW_004517902.1	Scaffold3134	12055	AA	GG	1947043107
SNP_P4_179920_12105	NW_004517902.1	Scaffold3134	12105	CC	TT	1947043109
SNP_P4_179923_12239	NW_004517902.1	Scaffold3134	12239	TT	AA	1947043112
SNP_P4_179924_12243	NW_004517902.1	Scaffold3134	12243	TT	AA	1947043114
SNP_P4_179925_12518	NW_004517902.1	Scaffold3134	12518	CC	AA	1947043116
SNP_P4_179926_12544	NW_004517902.1	Scaffold3134	12544	AA	GG	1947043118
SNP_P4_179927_12559	NW_004517902.1	Scaffold3134	12559	TT	GG	1947043120
SNP_P4_179928_12567	NW_004517902.1	Scaffold3134	12567	TT	CC	1947043122
SNP_P4_179929_12682	NW_004517902.1	Scaffold3134	12682	TT	CC	1947043124
SNP_P4_179930_12742	NW_004517902.1	Scaffold3134	12742	AA	GG	1947043126
SNP_P4_179932_12926	NW_004517902.1	Scaffold3134	12926	GG	AA	1947043128
SNP_P4_179933_12939	NW_004517902.1	Scaffold3134	12939	AA	GG	1947043131
SNP_P4_179934_12955	NW_004517902.1	Scaffold3134	12955	GG	AA	1947043133
SNP_P4_179935_12977	NW_004517902.1	Scaffold3134	12977	CC	TT	1947043135
SNP_P4_179936_13004	NW_004517902.1	Scaffold3134	13004	AA	GG	1947043137
SNP_P4_179937_13012	NW_004517902.1	Scaffold3134	13012	TT	CC	1947043139
SNP_P4_179938_13047	NW_004517902.1	Scaffold3134	13047	GG	AA	1947043141
SNP_P4_179940_13535	NW_004517902.1	Scaffold3134	13535	CC	AA	1947043143
SNP_P4_179941_13544	NW_004517902.1	Scaffold3134	13544	AA	GG	1947043146
SNP_P4_179942_13549	NW_004517902.1	Scaffold3134	13549	TT	CC	1947043148
SNP_P4_179943_13683	NW_004517902.1	Scaffold3134	13683	AA	GG	1947043150
SNP_P4_179944_13688	NW_004517902.1	Scaffold3134	13688	TT	CC	1947043152
SNP_P4_179945_13697	NW_004517902.1	Scaffold3134	13697	AA	TT	1947043154
SNP_P4_179947_13925	NW_004517902.1	Scaffold3134	13925	AA	TT	1947043156
SNP_P4_179948_14024	NW_004517902.1	Scaffold3134	14024	AA	GG	1947043158
SNP_P4_179949_14042	NW_004517902.1	Scaffold3134	14042	AA	GG	1947043160
SNP_P4_179950_14119	NW_004517902.1	Scaffold3134	14119	AA	CC	1947043162
SNP_P4_179951_14295	NW_004517902.1	Scaffold3134	14295	AA	CC	1947043164
SNP_P4_179952_14470	NW_004517902.1	Scaffold3134	14470	GG	CC	1947043166
SNP_P4_179953_14681	NW_004517902.1	Scaffold3134	14681	GG	AA	1947043168
SNP_P4_179955_15510	NW_004517902.1	Scaffold3134	15510	TT	CC	1947043170
SNP_P4_179956_15554	NW_004517902.1	Scaffold3134	15554	TT	AA	1947043172

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_179958_66884	NW_004517902.1	Scaffold3134	66884	CC	TT	1947043176
SNP_P4_179959_66928	NW_004517902.1	Scaffold3134	66928	AA	CC	1947043178
SNP_P4_179960_66975	NW_004517902.1	Scaffold3134	66975	AA	TT	1947043180
SNP_P4_179961_67090	NW_004517902.1	Scaffold3134	67090	TT	CC	1947043182
SNP_P4_179962_67103	NW_004517902.1	Scaffold3134	67103	TT	GG	1947043184
SNP_P4_179963_67129	NW_004517902.1	Scaffold3134	67129	GG	AA	1947043186
SNP_P4_179964_67216	NW_004517902.1	Scaffold3134	67216	TT	CC	1947043188
SNP_P4_179965_67270	NW_004517902.1	Scaffold3134	67270	CC	AA	1947043190
SNP_P4_179966_67316	NW_004517902.1	Scaffold3134	67316	CC	AA	1947043192
SNP_P4_179967_67387	NW_004517902.1	Scaffold3134	67387	AA	CC	1947043194
SNP_P4_179968_67399	NW_004517902.1	Scaffold3134	67399	CC	TT	1947043196
SNP_P4_179969_76204	NW_004517902.1	Scaffold3134	76204	CC	TT	1947043198
SNP_P4_179970_76208	NW_004517902.1	Scaffold3134	76208	GG	AA	1947043200
SNP_P4_179971_76268	NW_004517902.1	Scaffold3134	76268	GG	TT	1947043202
SNP_P4_179972_80617	NW_004517902.1	Scaffold3134	80617	AA	CC	1947043204
SNP_P4_179973_94778	NW_004517902.1	Scaffold3134	94778	TT	CC	1947043206
SNP_P4_179975_110186	NW_004517902.1	Scaffold3134	110186	GG	TT	1947043208
SNP_P4_179976_110808	NW_004517902.1	Scaffold3134	110808	GG	AA	1947043210
SNP_P4_179977_141179	NW_004517902.1	Scaffold3134	141179	GG	AA	1947043212
SNP_P4_179978_4017	NW_004517903.1	Scaffold3135	4017	GG	AA	1947043214
SNP_P4_179980_5237	NW_004517903.1	Scaffold3135	5237	AA	GG	1947043216
SNP_P4_179981_988	NW_004517904.1	Scaffold3136	988	GG	AA	1947043218
SNP_P4_179982_1025	NW_004517904.1	Scaffold3136	1025	AA	TT	1947043220
SNP_P4_179984_965	NW_004517907.1	Scaffold3139	965	TT	CC	1947043222
SNP_P4_179985_966	NW_004517907.1	Scaffold3139	966	GG	AA	1947043224
SNP_P4_179986_986	NW_004517907.1	Scaffold3139	986	TT	GG	1947043226
SNP_P4_179987_3811	NW_004517909.1	Scaffold3141	3811	CC	AA	1947043227
SNP_P4_179988_600	NW_004517911.1	Scaffold3144	600	TT	AA	1947043229
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SNP_P4_179990_4445	NW_004517911.1	Scaffold3144	4445	GG	AA	1947043233
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SNP_P4_179994_596	NW_004517913.1	Scaffold3147	596	TT	CC	1947043241
SNP_P4_179995_599	NW_004517913.1	Scaffold3147	599	GG	AA	1947043243
SNP_P4_179996_2000	NW_004517914.1	Scaffold3148	2000	TT	CC	1947043245
SNP_P4_179997_2005	NW_004517914.1	Scaffold3148	2005	GG	AA	1947043247
SNP_P4_179998_1809	NW_004517915.1	Scaffold3149	1809	AA	GG	1947043249
SNP_P4_179999_3498	NW_004517915.1	Scaffold3149	3498	GG	AA	1947043251
SNP_P4_180000_3576	NW_004517915.1	Scaffold3149	3576	CC	AA	1947043253
SNP_P4_180001_3688	NW_004517915.1	Scaffold3149	3688	CC	TT	1947043255

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_180003_3879	NW_004517915.1	Scaffold3149	3879	CC	TT	1947043259
SNP_P4_180004_3882	NW_004517915.1	Scaffold3149	3882	AA	GG	1947043261
SNP_P4_180005_4267	NW_004517915.1	Scaffold3149	4267	TT	AA	1947043263
SNP_P4_180006_4710	NW_004517915.1	Scaffold3149	4710	CC	AA	1947043265
SNP_P4_180007_4800	NW_004517915.1	Scaffold3149	4800	TT	CC	1947043267
SNP_P4_180008_4807	NW_004517915.1	Scaffold3149	4807	CC	TT	1947043269
SNP_P4_180009_4861	NW_004517915.1	Scaffold3149	4861	CC	AA	1947043271
SNP_P4_180010_4885	NW_004517915.1	Scaffold3149	4885	AA	GG	1947043273
SNP_P4_180011_4897	NW_004517915.1	Scaffold3149	4897	CC	AA	1947043275
SNP_P4_180012_5048	NW_004517915.1	Scaffold3149	5048	CC	GG	1947043277
SNP_P4_180013_5075	NW_004517915.1	Scaffold3149	5075	CC	AA	1947043279
SNP_P4_180014_5143	NW_004517915.1	Scaffold3149	5143	TT	GG	1947043281
SNP_P4_180015_5152	NW_004517915.1	Scaffold3149	5152	GG	AA	1947043283
SNP_P4_180016_5157	NW_004517915.1	Scaffold3149	5157	GG	AA	1947043285
SNP_P4_180017_5162	NW_004517915.1	Scaffold3149	5162	AA	GG	1947043287
SNP_P4_180018_5214	NW_004517915.1	Scaffold3149	5214	TT	CC	1947043289
SNP_P4_180019_5249	NW_004517915.1	Scaffold3149	5249	GG	AA	1947043291
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SNP_P4_180024_5319	NW_004517915.1	Scaffold3149	5319	CC	TT	1947043301
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SNP_P4_180032_9130	NW_004517915.1	Scaffold3149	9130	AA	TT	1947043317
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SNP_P4_180037_9513	NW_004517915.1	Scaffold3149	9513	AA	GG	1947043327
SNP_P4_180038_9620	NW_004517915.1	Scaffold3149	9620	AA	GG	1947043329
SNP_P4_180040_9700	NW_004517915.1	Scaffold3149	9700	AA	TT	1947043331
SNP_P4_180041_9787	NW_004517915.1	Scaffold3149	9787	CC	GG	1947043333
SNP_P4_180042_9850	NW_004517915.1	Scaffold3149	9850	TT	GG	1947043335
SNP_P4_180043_9870	NW_004517915.1	Scaffold3149	9870	AA	GG	1947043337
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_180046_10184	NW_004517915.1	Scaffold3149	10184	AA	CC	1947043344
SNP_P4_180047_10335	NW_004517915.1	Scaffold3149	10335	AA	GG	1947043346
SNP_P4_180048_10357	NW_004517915.1	Scaffold3149	10357	TT	AA	1947043348
SNP_P4_180049_10369	NW_004517915.1	Scaffold3149	10369	AA	GG	1947043350
SNP_P4_180050_10433	NW_004517915.1	Scaffold3149	10433	GG	CC	1947043351
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SNP_P4_180053_10525	NW_004517915.1	Scaffold3149	10525	GG	AA	1947043357
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SNP_P4_180062_26451	NW_004517915.1	Scaffold3149	26451	CC	TT	1947043375
SNP_P4_180063_26510	NW_004517915.1	Scaffold3149	26510	GG	AA	1947043377
SNP_P4_180064_351	NW_004517917.1	Scaffold3155	351	AA	GG	1947043379
SNP_P4_180065_367	NW_004517917.1	Scaffold3155	367	GG	AA	1947043381
SNP_P4_180066_487	NW_004517917.1	Scaffold3155	487	AA	GG	1947043383
SNP_P4_180067_494	NW_004517917.1	Scaffold3155	494	AA	GG	1947043385
SNP_P4_180068_495	NW_004517917.1	Scaffold3155	495	TT	AA	1947043387
SNP_P4_180069_498	NW_004517917.1	Scaffold3155	498	TT	CC	1947043389
SNP_P4_180070_507	NW_004517917.1	Scaffold3155	507	GG	AA	1947043391
SNP_P4_180071_524	NW_004517917.1	Scaffold3155	524	AA	GG	1947043393
SNP_P4_180072_555	NW_004517917.1	Scaffold3155	555	TT	AA	1947043395
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SNP_P4_180080_5609	NW_004517917.1	Scaffold3155	5609	CC	GG	1947043409
SNP_P4_180081_5610	NW_004517917.1	Scaffold3155	5610	TT	CC	1947043411
SNP_P4_180082_5672	NW_004517917.1	Scaffold3155	5672	TT	GG	1947043413
SNP_P4_180083_5697	NW_004517917.1	Scaffold3155	5697	GG	TT	1947043415
SNP_P4_180084_5735	NW_004517917.1	Scaffold3155	5735	AA	GG	1947043417
SNP_P4_180085_5748	NW_004517917.1	Scaffold3155	5748	AA	GG	1947043419
SNP_P4_180086_5773	NW_004517917.1	Scaffold3155	5773	AA	GG	1947043420
SNP_P4_180089_24095	NW_004517917.1	Scaffold3155	24095	GG	AA	1947043421

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_180090_24128	NW_004517917.1	Scaffold3155	24128	CC	AA	1947043422
SNP_P4_180092_2750	NW_004517918.1	Scaffold3156	2750	CC	AA	1947043423
SNP_P4_180093_2830	NW_004517918.1	Scaffold3156	2830	CC	AA	1947043424
SNP_P4_180094_378	NW_004517919.1	Scaffold3157	378	AA	TT	1947043425
SNP_P4_180095_684	NW_004517919.1	Scaffold3157	684	TT	AA	1947043426
SNP_P4_180096_720	NW_004517919.1	Scaffold3157	720	AA	TT	1947043427
SNP_P4_180097_2134	NW_004517919.1	Scaffold3157	2134	AA	GG	1947043428
SNP_P4_180098_282	NW_004517920.1	Scaffold3159	282	TT	AA	1947043429
SNP_P4_180099_1660	NW_004517920.1	Scaffold3159	1660	AA	TT	1947043430
SNP_P4_180100_1748	NW_004517920.1	Scaffold3159	1748	TT	CC	1947043431
SNP_P4_180101_2335	NW_004517920.1	Scaffold3159	2335	TT	GG	1947043432
SNP_P4_180102_3144	NW_004517921.1	Scaffold3160	3144	GG	AA	1947043433
SNP_P4_180103_5623	NW_004517921.1	Scaffold3160	5623	CC	GG	1947043434
SNP_P4_180104_5636	NW_004517921.1	Scaffold3160	5636	CC	TT	1947043435
SNP_P4_180105_5637	NW_004517921.1	Scaffold3160	5637	AA	GG	1947043436
SNP_P4_180106_5815	NW_004517921.1	Scaffold3160	5815	CC	TT	1947043437
SNP_P4_180107_5878	NW_004517921.1	Scaffold3160	5878	TT	CC	1947043438
SNP_P4_180108_5898	NW_004517921.1	Scaffold3160	5898	CC	TT	1947043439
SNP_P4_180109_5938	NW_004517921.1	Scaffold3160	5938	GG	TT	1947043440
SNP_P4_180110_5971	NW_004517921.1	Scaffold3160	5971	GG	AA	1947043441
SNP_P4_180111_5978	NW_004517921.1	Scaffold3160	5978	AA	GG	1947043443
SNP_P4_180112_6139	NW_004517921.1	Scaffold3160	6139	CC	TT	1947043445
SNP_P4_180113_6153	NW_004517921.1	Scaffold3160	6153	CC	TT	1947043447
SNP_P4_180114_6229	NW_004517921.1	Scaffold3160	6229	AA	GG	1947043449
SNP_P4_180115_7602	NW_004517921.1	Scaffold3160	7602	TT	AA	1947043451
SNP_P4_180116_7608	NW_004517921.1	Scaffold3160	7608	CC	TT	1947043453
SNP_P4_180117_7640	NW_004517921.1	Scaffold3160	7640	CC	AA	1947043455
SNP_P4_180118_7869	NW_004517921.1	Scaffold3160	7869	CC	TT	1947043457
SNP_P4_180119_7871	NW_004517921.1	Scaffold3160	7871	CC	AA	1947043459
SNP_P4_180121_7913	NW_004517921.1	Scaffold3160	7913	TT	CC	1947043461
SNP_P4_180122_7914	NW_004517921.1	Scaffold3160	7914	GG	AA	1947043463
SNP_P4_180123_7946	NW_004517921.1	Scaffold3160	7946	GG	AA	1947043465
SNP_P4_180124_7965	NW_004517921.1	Scaffold3160	7965	TT	AA	1947043467
SNP_P4_180125_7996	NW_004517921.1	Scaffold3160	7996	AA	TT	1947043469
SNP_P4_180126_7997	NW_004517921.1	Scaffold3160	7997	AA	TT	1947043471
SNP_P4_180127_7999	NW_004517921.1	Scaffold3160	7999	TT	GG	1947043473
SNP_P4_180128_8075	NW_004517921.1	Scaffold3160	8075	AA	GG	1947043475
SNP_P4_180129_8342	NW_004517921.1	Scaffold3160	8342	TT	AA	1947043477
SNP_P4_180130_8396	NW_004517921.1	Scaffold3160	8396	AA	GG	1947043479
SNP_P4_180131_8607	NW_004517921.1	Scaffold3160	8607	AA	TT	1947043481
SNP_P4_180132_8763	NW_004517921.1	Scaffold3160	8763	CC	GG	1947043483
SNP_P4_180133_8808	NW_004517921.1	Scaffold3160	8808	AA	GG	1947043485

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_180135_8833	NW_004517921.1	Scaffold3160	8833	AA	TT	1947043489
SNP_P4_180136_8841	NW_004517921.1	Scaffold3160	8841	CC	TT	1947043491
SNP_P4_180137_8852	NW_004517921.1	Scaffold3160	8852	CC	TT	1947043493
SNP_P4_180138_8896	NW_004517921.1	Scaffold3160	8896	GG	CC	1947043495
SNP_P4_180139_8965	NW_004517921.1	Scaffold3160	8965	GG	CC	1947043497
SNP_P4_180140_8991	NW_004517921.1	Scaffold3160	8991	TT	CC	1947043499
SNP_P4_180141_9066	NW_004517921.1	Scaffold3160	9066	TT	GG	1947043501
SNP_P4_180142_9093	NW_004517921.1	Scaffold3160	9093	GG	AA	1947043503
SNP_P4_180143_9131	NW_004517921.1	Scaffold3160	9131	GG	AA	1947043505
SNP_P4_180144_9239	NW_004517921.1	Scaffold3160	9239	GG	AA	1947043507
SNP_P4_180145_9267	NW_004517921.1	Scaffold3160	9267	GG	AA	1947043509
SNP_P4_180146_9321	NW_004517921.1	Scaffold3160	9321	GG	CC	1947043511
SNP_P4_180147_9361	NW_004517921.1	Scaffold3160	9361	TT	GG	1947043513
SNP_P4_180148_9413	NW_004517921.1	Scaffold3160	9413	TT	GG	1947043515
SNP_P4_180149_9423	NW_004517921.1	Scaffold3160	9423	AA	CC	1947043517
SNP_P4_180150_9454	NW_004517921.1	Scaffold3160	9454	CC	AA	1947043519
SNP_P4_180151_9495	NW_004517921.1	Scaffold3160	9495	TT	CC	1947043521
SNP_P4_180152_9522	NW_004517921.1	Scaffold3160	9522	TT	CC	1947043523
SNP_P4_180153_9629	NW_004517921.1	Scaffold3160	9629	TT	GG	1947043525
SNP_P4_180154_9630	NW_004517921.1	Scaffold3160	9630	TT	AA	1947043527
SNP_P4_180155_9760	NW_004517921.1	Scaffold3160	9760	CC	TT	1947043529
SNP_P4_180156_9761	NW_004517921.1	Scaffold3160	9761	GG	TT	1947043531
SNP_P4_180157_9778	NW_004517921.1	Scaffold3160	9778	CC	TT	1947043533
SNP_P4_180158_9790	NW_004517921.1	Scaffold3160	9790	AA	GG	1947043535
SNP_P4_180160_9844	NW_004517921.1	Scaffold3160	9844	AA	GG	1947043537
SNP_P4_180161_9864	NW_004517921.1	Scaffold3160	9864	TT	AA	1947043539
SNP_P4_180162_9895	NW_004517921.1	Scaffold3160	9895	AA	GG	1947043541
SNP_P4_180163_9947	NW_004517921.1	Scaffold3160	9947	AA	GG	1947043543
SNP_P4_180164_9977	NW_004517921.1	Scaffold3160	9977	CC	TT	1947043545
SNP_P4_180165_10033	NW_004517921.1	Scaffold3160	10033	AA	CC	1947043547
SNP_P4_180166_10075	NW_004517921.1	Scaffold3160	10075	TT	AA	1947043549
SNP_P4_180167_10089	NW_004517921.1	Scaffold3160	10089	AA	GG	1947043551
SNP_P4_180169_10166	NW_004517921.1	Scaffold3160	10166	AA	GG	1947043554
SNP_P4_180170_10196	NW_004517921.1	Scaffold3160	10196	AA	GG	1947043556
SNP_P4_180171_10232	NW_004517921.1	Scaffold3160	10232	TT	AA	1947043558
SNP_P4_180172_10349	NW_004517921.1	Scaffold3160	10349	CC	TT	1947043560
SNP_P4_180173_10361	NW_004517921.1	Scaffold3160	10361	CC	AA	1947043562
SNP_P4_180174_10408	NW_004517921.1	Scaffold3160	10408	AA	GG	1947043564
SNP_P4_180176_10588	NW_004517921.1	Scaffold3160	10588	TT	CC	1947043566
SNP_P4_180177_10633	NW_004517921.1	Scaffold3160	10633	CC	TT	1947043568
SNP_P4_180178_10695	NW_004517921.1	Scaffold3160	10695	TT	AA	1947043570

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_180180_10795	NW_004517921.1	Scaffold3160	10795	GG	TT	1947043574
SNP_P4_180181_11035	NW_004517921.1	Scaffold3160	11035	GG	TT	1947043576
SNP_P4_180182_11566	NW_004517921.1	Scaffold3160	11566	TT	AA	1947043578
SNP_P4_180183_11583	NW_004517921.1	Scaffold3160	11583	GG	AA	1947043580
SNP_P4_180184_11898	NW_004517921.1	Scaffold3160	11898	CC	TT	1947043582
SNP_P4_180185_11902	NW_004517921.1	Scaffold3160	11902	AA	CC	1947043584
SNP_P4_180186_16793	NW_004517921.1	Scaffold3160	16793	GG	AA	1947043586
SNP_P4_180187_16988	NW_004517921.1	Scaffold3160	16988	AA	TT	1947043588
SNP_P4_180189_22945	NW_004517921.1	Scaffold3160	22945	TT	GG	1947043590
SNP_P4_180190_22966	NW_004517921.1	Scaffold3160	22966	CC	TT	1947043592
SNP_P4_180191_909	NW_004517922.1	Scaffold3161	909	TT	AA	1947043594
SNP_P4_180192_5453	NW_004517922.1	Scaffold3161	5453	AA	TT	1947043596
SNP_P4_180193_5799	NW_004517922.1	Scaffold3161	5799	TT	GG	1947043598
SNP_P4_180194_5813	NW_004517922.1	Scaffold3161	5813	TT	CC	1947043600
SNP_P4_180196_403	NW_004517923.1	Scaffold3163	403	AA	TT	1947043602
SNP_P4_180197_455	NW_004517923.1	Scaffold3163	455	TT	CC	1947043604
SNP_P4_180198_468	NW_004517923.1	Scaffold3163	468	CC	TT	1947043606
SNP_P4_180199_582	NW_004517923.1	Scaffold3163	582	CC	TT	1947043608
SNP_P4_180200_583	NW_004517923.1	Scaffold3163	583	GG	AA	1947043610
SNP_P4_180201_586	NW_004517923.1	Scaffold3163	586	GG	AA	1947043612
SNP_P4_180202_614	NW_004517923.1	Scaffold3163	614	GG	TT	1947043614
SNP_P4_180203_670	NW_004517923.1	Scaffold3163	670	AA	GG	1947043616
SNP_P4_180204_686	NW_004517923.1	Scaffold3163	686	CC	TT	1947043618
SNP_P4_180205_705	NW_004517923.1	Scaffold3163	705	AA	GG	1947043620
SNP_P4_180206_759	NW_004517923.1	Scaffold3163	759	TT	CC	1947043622
SNP_P4_180207_954	NW_004517923.1	Scaffold3163	954	AA	TT	1947043624
SNP_P4_180208_973	NW_004517923.1	Scaffold3163	973	CC	TT	1947043626
SNP_P4_180209_1111	NW_004517923.1	Scaffold3163	1111	AA	TT	1947043628
SNP_P4_180211_1159	NW_004517923.1	Scaffold3163	1159	AA	GG	1947043630
SNP_P4_180213_2411	NW_004517924.1	Scaffold3164	2411	TT	CC	1947043632
SNP_P4_180214_2469	NW_004517924.1	Scaffold3164	2469	CC	TT	1947043634
SNP_P4_180215_3606	NW_004517924.1	Scaffold3164	3606	CC	TT	1947043637
SNP_P4_180216_3644	NW_004517924.1	Scaffold3164	3644	GG	AA	1947043639
SNP_P4_180217_6523	NW_004517924.1	Scaffold3164	6523	TT	CC	1947043641
SNP_P4_180218_6942	NW_004517924.1	Scaffold3164	6942	AA	TT	1947043643
SNP_P4_180219_64	NW_004517926.1	Scaffold3168	64	GG	AA	1947043645
SNP_P4_180220_110	NW_004517926.1	Scaffold3168	110	AA	CC	1947043647
SNP_P4_180221_497	NW_004517926.1	Scaffold3168	497	AA	GG	1947043649
SNP_P4_180223_524	NW_004517926.1	Scaffold3168	524	AA	TT	1947043651
SNP_P4_180224_606	NW_004517926.1	Scaffold3168	606	AA	GG	1947043653
SNP_P4_180225_689	NW_004517926.1	Scaffold3168	689	AA	GG	1947043654

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_180227_753	NW_004517926.1	Scaffold3168	753	TT	AA	1947043658
SNP_P4_180228_812	NW_004517926.1	Scaffold3168	812	TT	CC	1947043660
SNP_P4_180229_836	NW_004517926.1	Scaffold3168	836	CC	TT	1947043662
SNP_P4_180230_844	NW_004517926.1	Scaffold3168	844	GG	AA	1947043664
SNP_P4_180231_859	NW_004517926.1	Scaffold3168	859	CC	TT	1947043666
SNP_P4_180232_870	NW_004517926.1	Scaffold3168	870	CC	TT	1947043668
SNP_P4_180233_876	NW_004517926.1	Scaffold3168	876	AA	GG	1947043670
SNP_P4_180234_877	NW_004517926.1	Scaffold3168	877	TT	CC	1947043672
SNP_P4_180235_976	NW_004517926.1	Scaffold3168	976	CC	TT	1947043674
SNP_P4_180236_985	NW_004517926.1	Scaffold3168	985	TT	CC	1947043676
SNP_P4_180237_1038	NW_004517926.1	Scaffold3168	1038	TT	AA	1947043678
SNP_P4_180238_1076	NW_004517926.1	Scaffold3168	1076	CC	TT	1947043680
SNP_P4_180239_1353	NW_004517926.1	Scaffold3168	1353	AA	TT	1947043682
SNP_P4_180240_1364	NW_004517926.1	Scaffold3168	1364	TT	AA	1947043684
SNP_P4_180241_1427	NW_004517926.1	Scaffold3168	1427	AA	GG	1947043686
SNP_P4_180242_1459	NW_004517926.1	Scaffold3168	1459	CC	AA	1947043688
SNP_P4_180243_1487	NW_004517926.1	Scaffold3168	1487	TT	CC	1947043690
SNP_P4_180244_1489	NW_004517926.1	Scaffold3168	1489	TT	CC	1947043692
SNP_P4_180245_1717	NW_004517926.1	Scaffold3168	1717	CC	TT	1947043695
SNP_P4_180246_1829	NW_004517926.1	Scaffold3168	1829	TT	CC	1947043697
SNP_P4_180247_1871	NW_004517926.1	Scaffold3168	1871	AA	TT	1947043699
SNP_P4_180248_1872	NW_004517926.1	Scaffold3168	1872	TT	CC	1947043701
SNP_P4_180249_1887	NW_004517926.1	Scaffold3168	1887	CC	TT	1947043703
SNP_P4_180250_1895	NW_004517926.1	Scaffold3168	1895	GG	AA	1947043705
SNP_P4_180251_1907	NW_004517926.1	Scaffold3168	1907	CC	TT	1947043707
SNP_P4_180252_2016	NW_004517926.1	Scaffold3168	2016	AA	GG	1947043709
SNP_P4_180253_2036	NW_004517926.1	Scaffold3168	2036	CC	AA	1947043711
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SNP_P4_180255_238	NW_004517928.1	Scaffold3170	238	TT	CC	1947043715
SNP_P4_180256_543	NW_004517928.1	Scaffold3170	543	AA	GG	1947043717
SNP_P4_180257_10811	NW_004517928.1	Scaffold3170	10811	AA	TT	1947043719
SNP_P4_180259_17014	NW_004517928.1	Scaffold3170	17014	GG	AA	1947043721
SNP_P4_180260_55198	NW_004517928.1	Scaffold3170	55198	GG	AA	1947043723
SNP_P4_180262_69304	NW_004517928.1	Scaffold3170	69304	TT	CC	1947043725
SNP_P4_180263_72971	NW_004517928.1	Scaffold3170	72971	AA	GG	1947043727
SNP_P4_180264_73006	NW_004517928.1	Scaffold3170	73006	TT	GG	1947043729
SNP_P4_180265_73345	NW_004517928.1	Scaffold3170	73345	AA	CC	1947043731
SNP_P4_180266_76890	NW_004517928.1	Scaffold3170	76890	GG	AA	1947043733
SNP_P4_180267_77463	NW_004517928.1	Scaffold3170	77463	CC	TT	1947043735
SNP_P4_180270_111477	NW_004517928.1	Scaffold3170	111477	GG	CC	1947043737
SNP_P4_180271_111880	NW_004517928.1	Scaffold3170	111880	TT	CC	1947043739

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_180274_128247	NW_004517928.1	Scaffold3170	128247	AA	GG	1947043746
SNP_P4_180276_150617	NW_004517928.1	Scaffold3170	150617	AA	CC	1947043748
SNP_P4_180277_163511	NW_004517928.1	Scaffold3170	163511	AA	TT	1947043750
SNP_P4_180278_197458	NW_004517928.1	Scaffold3170	197458	AA	GG	1947043752
SNP_P4_180279_204936	NW_004517928.1	Scaffold3170	204936	AA	GG	1947043754
SNP_P4_180280_208539	NW_004517928.1	Scaffold3170	208539	GG	CC	1947043756
SNP_P4_180281_208550	NW_004517928.1	Scaffold3170	208550	GG	TT	1947043758
SNP_P4_180282_209009	NW_004517928.1	Scaffold3170	209009	GG	CC	1947043760
SNP_P4_180283_209592	NW_004517928.1	Scaffold3170	209592	TT	CC	1947043762
SNP_P4_180284_212377	NW_004517928.1	Scaffold3170	212377	GG	AA	1947043764
SNP_P4_180285_212739	NW_004517928.1	Scaffold3170	212739	AA	GG	1947043766
SNP_P4_180286_214247	NW_004517928.1	Scaffold3170	214247	AA	GG	1947043768
SNP_P4_180287_215103	NW_004517928.1	Scaffold3170	215103	AA	TT	1947043770
SNP_P4_180288_216004	NW_004517928.1	Scaffold3170	216004	AA	CC	1947043772
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SNP_P4_180291_1369	NW_004517929.1	Scaffold3171	1369	TT	GG	1947043779
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SNP_P4_180294_1998	NW_004517929.1	Scaffold3171	1998	AA	GG	1947043785
SNP_P4_180295_2006	NW_004517929.1	Scaffold3171	2006	TT	GG	1947043787
SNP_P4_180296_2079	NW_004517929.1	Scaffold3171	2079	AA	CC	1947043789
SNP_P4_180297_2103	NW_004517929.1	Scaffold3171	2103	GG	TT	1947043791
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SNP_P4_180300_2170	NW_004517929.1	Scaffold3171	2170	TT	CC	1947043797
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SNP_P4_180303_2235	NW_004517929.1	Scaffold3171	2235	GG	AA	1947043801
SNP_P4_180304_2298	NW_004517929.1	Scaffold3171	2298	CC	GG	1947043803
SNP_P4_180305_2375	NW_004517929.1	Scaffold3171	2375	CC	TT	1947043805
SNP_P4_180306_2391	NW_004517929.1	Scaffold3171	2391	GG	TT	1947043807
SNP_P4_180308_2435	NW_004517929.1	Scaffold3171	2435	AA	TT	1947043810
SNP_P4_180309_2441	NW_004517929.1	Scaffold3171	2441	TT	GG	1947043812
SNP_P4_180310_2639	NW_004517929.1	Scaffold3171	2639	AA	TT	1947043814
SNP_P4_180312_2753	NW_004517929.1	Scaffold3171	2753	CC	TT	1947043816
SNP_P4_180313_2765	NW_004517929.1	Scaffold3171	2765	TT	GG	1947043818
SNP_P4_180314_2770	NW_004517929.1	Scaffold3171	2770	TT	AA	1947043820
SNP_P4_180315_2858	NW_004517929.1	Scaffold3171	2858	AA	GG	1947043822
SNP_P4_180316_125	NW_004517930.1	Scaffold3172	125	AA	TT	1947043824
SNP_P4_180317_142	NW_004517930.1	Scaffold3172	142	GG	CC	1947043826

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_180318_362	NW_004517930.1	Scaffold3172	362	CC	AA	1947043828
SNP_P4_180319_424	NW_004517930.1	Scaffold3172	424	GG	AA	1947043830
SNP_P4_180320_578	NW_004517930.1	Scaffold3172	578	TT	AA	1947043832
SNP_P4_180321_6995	NW_004517932.1	Scaffold3174	6995	GG	TT	1947043834
SNP_P4_180322_7224	NW_004517932.1	Scaffold3174	7224	AA	TT	1947043836
SNP_P4_180323_7239	NW_004517932.1	Scaffold3174	7239	TT	AA	1947043838
SNP_P4_180324_7246	NW_004517932.1	Scaffold3174	7246	GG	TT	1947043840
SNP_P4_180325_7257	NW_004517932.1	Scaffold3174	7257	TT	GG	1947043842
SNP_P4_180326_7258	NW_004517932.1	Scaffold3174	7258	TT	GG	1947043844
SNP_P4_180327_11547	NW_004517933.1	Scaffold3175	11547	CC	TT	1947043846
SNP_P4_180328_11583	NW_004517933.1	Scaffold3175	11583	GG	AA	1947043848
SNP_P4_180329_11651	NW_004517933.1	Scaffold3175	11651	AA	GG	1947043850
SNP_P4_180330_17055	NW_004517933.1	Scaffold3175	17055	TT	CC	1947043852
SNP_P4_180331_17099	NW_004517933.1	Scaffold3175	17099	AA	GG	1947043854
SNP_P4_180332_17333	NW_004517933.1	Scaffold3175	17333	AA	CC	1947043857
SNP_P4_180333_17346	NW_004517933.1	Scaffold3175	17346	TT	CC	1947043859
SNP_P4_180334_17363	NW_004517933.1	Scaffold3175	17363	GG	AA	1947043861
SNP_P4_180335_17737	NW_004517933.1	Scaffold3175	17737	TT	CC	1947043863
SNP_P4_180336_17765	NW_004517933.1	Scaffold3175	17765	TT	CC	1947043865
SNP_P4_180337_17782	NW_004517933.1	Scaffold3175	17782	TT	CC	1947043867
SNP_P4_180338_18844	NW_004517933.1	Scaffold3175	18844	GG	TT	1947043869
SNP_P4_180339_18895	NW_004517933.1	Scaffold3175	18895	CC	TT	1947043871
SNP_P4_180340_18902	NW_004517933.1	Scaffold3175	18902	CC	AA	1947043873
SNP_P4_180341_18914	NW_004517933.1	Scaffold3175	18914	TT	CC	1947043875
SNP_P4_180342_18920	NW_004517933.1	Scaffold3175	18920	GG	AA	1947043877
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SNP_P4_180344_19002	NW_004517933.1	Scaffold3175	19002	AA	GG	1947043881
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SNP_P4_180347_19195	NW_004517933.1	Scaffold3175	19195	GG	TT	1947043887
SNP_P4_180348_19234	NW_004517933.1	Scaffold3175	19234	GG	AA	1947043889
SNP_P4_180349_1325	NW_004517934.1	Scaffold3176	1325	TT	GG	1947043891
SNP_P4_180350_1373	NW_004517934.1	Scaffold3176	1373	AA	GG	1947043893
SNP_P4_180351_1396	NW_004517934.1	Scaffold3176	1396	CC	TT	1947043895
SNP_P4_180352_757	NW_004517939.1	Scaffold3181	757	CC	TT	1947043897
SNP_P4_180353_773	NW_004517939.1	Scaffold3181	773	AA	TT	1947043899
SNP_P4_180354_941	NW_004517939.1	Scaffold3181	941	AA	TT	1947043901
SNP_P4_180355_962	NW_004517939.1	Scaffold3181	962	AA	CC	1947043903
SNP_P4_180356_64	NW_004517941.1	Scaffold3183	64	AA	GG	1947043905
SNP_P4_180357_125	NW_004517941.1	Scaffold3183	125	AA	CC	1947043907
SNP_P4_180358_150	NW_004517941.1	Scaffold3183	150	TT	CC	1947043909
SNP_P4_180359_296	NW_004517941.1	Scaffold3183	296	GG	AA	1947043911

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_180361_419	NW_004517941.1	Scaffold3183	419	AA	GG	1947043915
SNP_P4_180362_430	NW_004517941.1	Scaffold3183	430	CC	TT	1947043917
SNP_P4_180363_466	NW_004517941.1	Scaffold3183	466	AA	TT	1947043919
SNP_P4_180364_2684	NW_004517943.1	Scaffold3187	2684	TT	GG	1947043921
SNP_P4_180365_2700	NW_004517943.1	Scaffold3187	2700	AA	GG	1947043923
SNP_P4_180366_5697	NW_004517943.1	Scaffold3187	5697	CC	TT	1947043925
SNP_P4_180367_6031	NW_004517943.1	Scaffold3187	6031	AA	GG	1947043927
SNP_P4_180368_6681	NW_004517943.1	Scaffold3187	6681	GG	AA	1947043929
SNP_P4_180369_8298	NW_004517943.1	Scaffold3187	8298	CC	AA	1947043931
SNP_P4_180370_8302	NW_004517943.1	Scaffold3187	8302	GG	AA	1947043933
SNP_P4_180371_8310	NW_004517943.1	Scaffold3187	8310	AA	GG	1947043935
SNP_P4_180372_8313	NW_004517943.1	Scaffold3187	8313	TT	GG	1947043937
SNP_P4_180373_8329	NW_004517943.1	Scaffold3187	8329	TT	AA	1947043939
SNP_P4_180374_3613	NW_004517944.1	Scaffold3188	3613	AA	CC	1947043941
SNP_P4_180375_9563	NW_004517944.1	Scaffold3188	9563	CC	TT	1947043943
SNP_P4_180376_24881	NW_004517947.1	Scaffold3191	24881	TT	CC	1947043945
SNP_P4_180377_25148	NW_004517947.1	Scaffold3191	25148	GG	TT	1947043947
SNP_P4_180378_25158	NW_004517947.1	Scaffold3191	25158	AA	GG	1947043949
SNP_P4_180379_25217	NW_004517947.1	Scaffold3191	25217	CC	GG	1947043951
SNP_P4_180380_25415	NW_004517947.1	Scaffold3191	25415	CC	GG	1947043953
SNP_P4_180381_25423	NW_004517947.1	Scaffold3191	25423	TT	AA	1947043955
SNP_P4_180382_25430	NW_004517947.1	Scaffold3191	25430	AA	CC	1947043957
SNP_P4_180383_25443	NW_004517947.1	Scaffold3191	25443	AA	TT	1947043959
SNP_P4_180384_25477	NW_004517947.1	Scaffold3191	25477	TT	AA	1947043961
SNP_P4_180385_25482	NW_004517947.1	Scaffold3191	25482	GG	AA	1947043963
SNP_P4_180386_25491	NW_004517947.1	Scaffold3191	25491	AA	TT	1947043965
SNP_P4_180387_25516	NW_004517947.1	Scaffold3191	25516	AA	GG	1947043967
SNP_P4_180388_25537	NW_004517947.1	Scaffold3191	25537	TT	CC	1947043969
SNP_P4_180389_25552	NW_004517947.1	Scaffold3191	25552	AA	GG	1947043971
SNP_P4_180390_25569	NW_004517947.1	Scaffold3191	25569	AA	GG	1947043973
SNP_P4_180391_25864	NW_004517947.1	Scaffold3191	25864	CC	GG	1947043975
SNP_P4_180392_25894	NW_004517947.1	Scaffold3191	25894	GG	CC	1947043977
SNP_P4_180394_25929	NW_004517947.1	Scaffold3191	25929	CC	AA	1947043979
SNP_P4_180395_171	NW_004517948.1	Scaffold3192	171	TT	GG	1947043981
SNP_P4_180396_2932	NW_004517951.1	Scaffold3195	2932	AA	GG	1947043989
SNP_P4_180398_399	NW_004517953.1	Scaffold3199	399	TT	AA	1947043991
SNP_P4_180399_401	NW_004517953.1	Scaffold3199	401	GG	AA	1947043993
SNP_P4_180400_606	NW_004517953.1	Scaffold3199	606	GG	CC	1947043995
SNP_P4_180401_673	NW_004517953.1	Scaffold3199	673	TT	GG	1947043997
SNP_P4_180402_803	NW_004517953.1	Scaffold3199	803	GG	AA	1947043999
SNP_P4_180404_1128	NW_004517953.1	Scaffold3199	1128	AA	GG	1947044001

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_180406_647	NW_004517958.1	Scaffold3204	647	AA	TT	1947044005
SNP_P4_180407_1011	NW_004517958.1	Scaffold3204	1011	TT	CC	1947044007
SNP_P4_180408_483	NW_004517961.1	Scaffold3208	483	CC	TT	1947044009
SNP_P4_180409_673	NW_004517961.1	Scaffold3208	673	AA	GG	1947044011
SNP_P4_180410_771	NW_004517961.1	Scaffold3208	771	GG	AA	1947044013
SNP_P4_180411_802	NW_004517961.1	Scaffold3208	802	CC	TT	1947044015
SNP_P4_180412_910	NW_004517961.1	Scaffold3208	910	TT	AA	1947044017
SNP_P4_180413_1189	NW_004517961.1	Scaffold3208	1189	GG	AA	1947044019
SNP_P4_180414_1281	NW_004517961.1	Scaffold3208	1281	GG	AA	1947044021
SNP_P4_180415_1429	NW_004517961.1	Scaffold3208	1429	AA	GG	1947044023
SNP_P4_180416_1441	NW_004517961.1	Scaffold3208	1441	GG	AA	1947044025
SNP_P4_180417_1536	NW_004517961.1	Scaffold3208	1536	AA	TT	1947044027
SNP_P4_180418_5599	NW_004517963.1	Scaffold3210	5599	CC	GG	1947044029
SNP_P4_180419_5614	NW_004517963.1	Scaffold3210	5614	TT	CC	1947044031
SNP_P4_180420_5624	NW_004517963.1	Scaffold3210	5624	AA	GG	1947044033
SNP_P4_180422_5732	NW_004517963.1	Scaffold3210	5732	TT	CC	1947044035
SNP_P4_180424_5744	NW_004517963.1	Scaffold3210	5744	AA	CC	1947044037
SNP_P4_180425_5763	NW_004517963.1	Scaffold3210	5763	AA	GG	1947044039
SNP_P4_180426_5792	NW_004517963.1	Scaffold3210	5792	CC	TT	1947044041
SNP_P4_180427_5946	NW_004517963.1	Scaffold3210	5946	TT	GG	1947044043
SNP_P4_180428_5971	NW_004517963.1	Scaffold3210	5971	AA	GG	1947044045
SNP_P4_180429_5998	NW_004517963.1	Scaffold3210	5998	CC	TT	1947044047
SNP_P4_180430_6021	NW_004517963.1	Scaffold3210	6021	TT	AA	1947044049
SNP_P4_180431_6053	NW_004517963.1	Scaffold3210	6053	GG	CC	1947044051
SNP_P4_180432_91	NW_004517965.1	Scaffold3212	91	GG	AA	1947044053
SNP_P4_180433_118	NW_004517965.1	Scaffold3212	118	CC	AA	1947044055
SNP_P4_180434_246	NW_004517965.1	Scaffold3212	246	AA	GG	1947044057
SNP_P4_180435_286	NW_004517965.1	Scaffold3212	286	AA	TT	1947044059
SNP_P4_180436_373	NW_004517965.1	Scaffold3212	373	TT	CC	1947044061
SNP_P4_180437_628	NW_004517965.1	Scaffold3212	628	TT	AA	1947044063
SNP_P4_180438_697	NW_004517965.1	Scaffold3212	697	GG	TT	1947044065
SNP_P4_180440_762	NW_004517965.1	Scaffold3212	762	CC	AA	1947044067
SNP_P4_180441_774	NW_004517965.1	Scaffold3212	774	AA	GG	1947044069
SNP_P4_180442_1333	NW_004517965.1	Scaffold3212	1333	CC	GG	1947044071
SNP_P4_180444_1577	NW_004517965.1	Scaffold3212	1577	CC	TT	1947044072
SNP_P4_180445_1637	NW_004517965.1	Scaffold3212	1637	AA	GG	1947044074
SNP_P4_180447_1883	NW_004517965.1	Scaffold3212	1883	GG	CC	1947044076
SNP_P4_180448_2174	NW_004517965.1	Scaffold3212	2174	TT	GG	1947044078
SNP_P4_180449_2369	NW_004517965.1	Scaffold3212	2369	GG	AA	1947044080
SNP_P4_180450_2392	NW_004517965.1	Scaffold3212	2392	TT	CC	1947044082
SNP_P4_180451_2412	NW_004517965.1	Scaffold3212	2412	CC	TT	1947044084

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_180454_2536	NW_004517965.1	Scaffold3212	2536	AA	TT	1947044090
SNP_P4_180455_2548	NW_004517965.1	Scaffold3212	2548	CC	TT	1947044092
SNP_P4_180457_2578	NW_004517965.1	Scaffold3212	2578	CC	TT	1947044094
SNP_P4_180458_2664	NW_004517965.1	Scaffold3212	2664	CC	GG	1947044096
SNP_P4_180459_2707	NW_004517965.1	Scaffold3212	2707	AA	GG	1947044098
SNP_P4_180460_2711	NW_004517965.1	Scaffold3212	2711	CC	TT	1947044100
SNP_P4_180461_2796	NW_004517965.1	Scaffold3212	2796	GG	TT	1947044102
SNP_P4_180462_2830	NW_004517965.1	Scaffold3212	2830	GG	CC	1947044104
SNP_P4_180463_2935	NW_004517965.1	Scaffold3212	2935	TT	AA	1947044106
SNP_P4_180464_3032	NW_004517965.1	Scaffold3212	3032	GG	CC	1947044108
SNP_P4_180465_3057	NW_004517965.1	Scaffold3212	3057	CC	GG	1947044110
SNP_P4_180466_3076	NW_004517965.1	Scaffold3212	3076	AA	CC	1947044112
SNP_P4_180467_3487	NW_004517965.1	Scaffold3212	3487	AA	GG	1947044114
SNP_P4_180468_3558	NW_004517965.1	Scaffold3212	3558	CC	AA	1947044116
SNP_P4_180469_3599	NW_004517965.1	Scaffold3212	3599	TT	CC	1947044118
SNP_P4_180470_3669	NW_004517965.1	Scaffold3212	3669	AA	TT	1947044120
SNP_P4_180471_3703	NW_004517965.1	Scaffold3212	3703	AA	CC	1947044121
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SNP_P4_180475_3969	NW_004517965.1	Scaffold3212	3969	TT	CC	1947044127
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SNP_P4_180481_4495	NW_004517965.1	Scaffold3212	4495	AA	CC	1947044139
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SNP_P4_180483_4801	NW_004517965.1	Scaffold3212	4801	GG	TT	1947044143
SNP_P4_180484_5420	NW_004517965.1	Scaffold3212	5420	GG	AA	1947044145
SNP_P4_180485_5451	NW_004517965.1	Scaffold3212	5451	GG	TT	1947044147
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SNP_P4_180489_5945	NW_004517965.1	Scaffold3212	5945	GG	TT	1947044155
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SNP_P4_180491_6141	NW_004517965.1	Scaffold3212	6141	GG	CC	1947044159
SNP_P4_180493_6400	NW_004517965.1	Scaffold3212	6400	AA	CC	1947044160
SNP_P4_180494_6451	NW_004517965.1	Scaffold3212	6451	TT	CC	1947044162
SNP_P4_180495_6469	NW_004517965.1	Scaffold3212	6469	GG	TT	1947044164
SNP_P4_180496_6597	NW_004517965.1	Scaffold3212	6597	CC	TT	1947044166

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_180499_6736	NW_004517965.1	Scaffold3212	6736	CC	TT	1947044172
SNP_P4_180500_6755	NW_004517965.1	Scaffold3212	6755	GG	CC	1947044174
SNP_P4_180501_6845	NW_004517965.1	Scaffold3212	6845	CC	AA	1947044176
SNP_P4_180502_6849	NW_004517965.1	Scaffold3212	6849	TT	GG	1947044178
SNP_P4_180503_7037	NW_004517965.1	Scaffold3212	7037	TT	CC	1947044180
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SNP_P4_180505_7263	NW_004517965.1	Scaffold3212	7263	CC	TT	1947044184
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SNP_P4_180507_7996	NW_004517965.1	Scaffold3212	7996	GG	TT	1947044187
SNP_P4_180508_8159	NW_004517965.1	Scaffold3212	8159	AA	GG	1947044189
SNP_P4_180509_8204	NW_004517965.1	Scaffold3212	8204	GG	AA	1947044191
SNP_P4_180510_8262	NW_004517965.1	Scaffold3212	8262	CC	GG	1947044193
SNP_P4_180511_8455	NW_004517965.1	Scaffold3212	8455	CC	TT	1947044195
SNP_P4_180512_8457	NW_004517965.1	Scaffold3212	8457	AA	GG	1947044197
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SNP_P4_180515_9000	NW_004517965.1	Scaffold3212	9000	GG	TT	1947044202
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SNP_P4_180518_9635	NW_004517965.1	Scaffold3212	9635	TT	CC	1947044208
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SNP_P4_180520_9696	NW_004517965.1	Scaffold3212	9696	TT	CC	1947044212
SNP_P4_180521_9767	NW_004517965.1	Scaffold3212	9767	GG	AA	1947044214
SNP_P4_180522_9829	NW_004517965.1	Scaffold3212	9829	CC	AA	1947044216
SNP_P4_180523_9830	NW_004517965.1	Scaffold3212	9830	CC	GG	1947044218
SNP_P4_180524_9889	NW_004517965.1	Scaffold3212	9889	TT	CC	1947044220
SNP_P4_180525_9890	NW_004517965.1	Scaffold3212	9890	GG	AA	1947044222
SNP_P4_180526_10050	NW_004517965.1	Scaffold3212	10050	TT	CC	1947044224
SNP_P4_180527_10080	NW_004517965.1	Scaffold3212	10080	CC	AA	1947044226
SNP_P4_180528_10083	NW_004517965.1	Scaffold3212	10083	TT	CC	1947044228
SNP_P4_180529_10105	NW_004517965.1	Scaffold3212	10105	GG	TT	1947044230
SNP_P4_180530_10114	NW_004517965.1	Scaffold3212	10114	CC	AA	1947044232
SNP_P4_180531_10174	NW_004517965.1	Scaffold3212	10174	TT	CC	1947044234
SNP_P4_180532_10183	NW_004517965.1	Scaffold3212	10183	TT	CC	1947044235
SNP_P4_180533_10307	NW_004517965.1	Scaffold3212	10307	CC	TT	1947044237
SNP_P4_180534_10334	NW_004517965.1	Scaffold3212	10334	TT	AA	1947044239
SNP_P4_180535_10372	NW_004517965.1	Scaffold3212	10372	GG	AA	1947044241
SNP_P4_180536_10738	NW_004517965.1	Scaffold3212	10738	TT	AA	1947044243
SNP_P4_180537_10794	NW_004517965.1	Scaffold3212	10794	AA	GG	1947044245
SNP_P4_180538_10996	NW_004517965.1	Scaffold3212	10996	AA	TT	1947044247

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_180539_11463	NW_004517965.1	Scaffold3212	11463	GG	TT	1947044249
SNP_P4_180540_11464	NW_004517965.1	Scaffold3212	11464	GG	CC	1947044250
SNP_P4_180541_18200	NW_004517966.1	Scaffold3213	18200	TT	AA	1947044252
SNP_P4_180542_886	NW_004517968.1	Scaffold3215	886	TT	CC	1947044254
SNP_P4_180543_903	NW_004517968.1	Scaffold3215	903	CC	GG	1947044256
SNP_P4_180544_904	NW_004517968.1	Scaffold3215	904	TT	GG	1947044258
SNP_P4_180545_914	NW_004517968.1	Scaffold3215	914	GG	TT	1947044260
SNP_P4_180546_1063	NW_004517968.1	Scaffold3215	1063	GG	TT	1947044262
SNP_P4_180547_1074	NW_004517968.1	Scaffold3215	1074	CC	AA	1947044264
SNP_P4_180548_1077	NW_004517968.1	Scaffold3215	1077	TT	CC	1947044266
SNP_P4_180549_1114	NW_004517968.1	Scaffold3215	1114	CC	GG	1947044268
SNP_P4_180550_568	NW_004517969.1	Scaffold3216	568	GG	AA	1947044270
SNP_P4_180551_9011	NW_004517969.1	Scaffold3216	9011	AA	TT	1947044272
SNP_P4_180552_4107	NW_004517970.1	Scaffold3217	4107	AA	GG	1947044274
SNP_P4_180553_4117	NW_004517970.1	Scaffold3217	4117	AA	GG	1947044276
SNP_P4_180554_4135	NW_004517970.1	Scaffold3217	4135	CC	TT	1947044278
SNP_P4_180555_4144	NW_004517970.1	Scaffold3217	4144	TT	CC	1947044280
SNP_P4_180556_4275	NW_004517970.1	Scaffold3217	4275	CC	TT	1947044282
SNP_P4_180558_4343	NW_004517970.1	Scaffold3217	4343	CC	AA	1947044284
SNP_P4_180559_4364	NW_004517970.1	Scaffold3217	4364	AA	GG	1947044285
SNP_P4_180560_4412	NW_004517970.1	Scaffold3217	4412	TT	GG	1947044287
SNP_P4_180561_4414	NW_004517970.1	Scaffold3217	4414	AA	GG	1947044289
SNP_P4_180562_4422	NW_004517970.1	Scaffold3217	4422	AA	GG	1947044291
SNP_P4_180563_4466	NW_004517970.1	Scaffold3217	4466	TT	GG	1947044293
SNP_P4_180564_4487	NW_004517970.1	Scaffold3217	4487	AA	GG	1947044295
SNP_P4_180565_4490	NW_004517970.1	Scaffold3217	4490	TT	CC	1947044297
SNP_P4_180566_4497	NW_004517970.1	Scaffold3217	4497	CC	TT	1947044299
SNP_P4_180567_4512	NW_004517970.1	Scaffold3217	4512	CC	TT	1947044301
SNP_P4_180568_4584	NW_004517970.1	Scaffold3217	4584	CC	AA	1947044303
SNP_P4_180569_4601	NW_004517970.1	Scaffold3217	4601	AA	GG	1947044305
SNP_P4_180571_4724	NW_004517970.1	Scaffold3217	4724	AA	GG	1947044307
SNP_P4_180572_4767	NW_004517970.1	Scaffold3217	4767	AA	CC	1947044309
SNP_P4_180573_4779	NW_004517970.1	Scaffold3217	4779	GG	TT	1947044311
SNP_P4_180574_4882	NW_004517970.1	Scaffold3217	4882	GG	AA	1947044313
SNP_P4_180575_6375	NW_004517970.1	Scaffold3217	6375	AA	CC	1947044315
SNP_P4_180576_6785	NW_004517970.1	Scaffold3217	6785	GG	AA	1947044317
SNP_P4_180577_10988	NW_004517970.1	Scaffold3217	10988	TT	CC	1947044319
SNP_P4_180578_11019	NW_004517970.1	Scaffold3217	11019	GG	AA	1947044321
SNP_P4_180579_11055	NW_004517970.1	Scaffold3217	11055	GG	CC	1947044323
SNP_P4_180580_13734	NW_004517970.1	Scaffold3217	13734	AA	GG	1947044325
SNP_P4_180581_14160	NW_004517970.1	Scaffold3217	14160	AA	GG	1947044327
SNP_P4_180582_15304	NW_004517970.1	Scaffold3217	15304	AA	CC	1947044329

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_180583_15838	NW_004517970.1	Scaffold3217	15838	AA	GG	1947044331
SNP_P4_180584_15849	NW_004517970.1	Scaffold3217	15849	AA	CC	1947044333
SNP_P4_180585_15875	NW_004517970.1	Scaffold3217	15875	GG	AA	1947044335
SNP_P4_180586_15892	NW_004517970.1	Scaffold3217	15892	GG	AA	1947044337
SNP_P4_180587_15915	NW_004517970.1	Scaffold3217	15915	AA	GG	1947044339
SNP_P4_180588_26509	NW_004517970.1	Scaffold3217	26509	AA	GG	1947044341
SNP_P4_180589_36238	NW_004517970.1	Scaffold3217	36238	AA	GG	1947044343
SNP_P4_180590_36291	NW_004517970.1	Scaffold3217	36291	AA	CC	1947044345
SNP_P4_180591_36303	NW_004517970.1	Scaffold3217	36303	CC	TT	1947044347
SNP_P4_180592_36603	NW_004517970.1	Scaffold3217	36603	TT	AA	1947044349
SNP_P4_180593_2156	NW_004517971.1	Scaffold3218	2156	TT	CC	1947044351
SNP_P4_180594_8103	NW_004517971.1	Scaffold3218	8103	CC	TT	1947044352
SNP_P4_180595_8508	NW_004517971.1	Scaffold3218	8508	TT	GG	1947044354
SNP_P4_180596_746	NW_004517976.1	Scaffold3225	746	AA	TT	1947044356
SNP_P4_180597_753	NW_004517976.1	Scaffold3225	753	TT	CC	1947044358
SNP_P4_180598_766	NW_004517976.1	Scaffold3225	766	AA	GG	1947044360
SNP_P4_180599_5514	NW_004517976.1	Scaffold3225	5514	TT	CC	1947044362
SNP_P4_180600_5712	NW_004517976.1	Scaffold3225	5712	AA	GG	1947044364
SNP_P4_180601_5713	NW_004517976.1	Scaffold3225	5713	CC	TT	1947044366
SNP_P4_180602_5791	NW_004517976.1	Scaffold3225	5791	CC	TT	1947044368
SNP_P4_180603_5818	NW_004517976.1	Scaffold3225	5818	TT	CC	1947044370
SNP_P4_180604_8616	NW_004517976.1	Scaffold3225	8616	TT	CC	1947044372
SNP_P4_180605_8632	NW_004517976.1	Scaffold3225	8632	TT	CC	1947044374
SNP_P4_180606_8635	NW_004517976.1	Scaffold3225	8635	AA	GG	1947044375
SNP_P4_180607_8665	NW_004517976.1	Scaffold3225	8665	TT	CC	1947044377
SNP_P4_180608_8668	NW_004517976.1	Scaffold3225	8668	CC	AA	1947044379
SNP_P4_180609_8682	NW_004517976.1	Scaffold3225	8682	TT	CC	1947044381
SNP_P4_180610_8743	NW_004517976.1	Scaffold3225	8743	AA	GG	1947044383
SNP_P4_180611_9349	NW_004517976.1	Scaffold3225	9349	CC	GG	1947044385
SNP_P4_180612_17908	NW_004517976.1	Scaffold3225	17908	GG	CC	1947044387
SNP_P4_180613_18521	NW_004517976.1	Scaffold3225	18521	AA	TT	1947044389
SNP_P4_180614_18763	NW_004517976.1	Scaffold3225	18763	TT	CC	1947044391
SNP_P4_180615_21955	NW_004517976.1	Scaffold3225	21955	AA	GG	1947044393
SNP_P4_180616_22316	NW_004517976.1	Scaffold3225	22316	GG	AA	1947044395
SNP_P4_180618_471	NW_004517979.1	Scaffold3228	471	TT	GG	1947044397
SNP_P4_180619_486	NW_004517979.1	Scaffold3228	486	CC	AA	1947044399
SNP_P4_180621_1305	NW_004517979.1	Scaffold3228	1305	GG	CC	1947044401
SNP_P4_180622_1718	NW_004517979.1	Scaffold3228	1718	GG	AA	1947044403
SNP_P4_180624_1920	NW_004517979.1	Scaffold3228	1920	CC	TT	1947044405
SNP_P4_180625_1963	NW_004517979.1	Scaffold3228	1963	CC	TT	1947044407
SNP_P4_180626_1964	NW_004517979.1	Scaffold3228	1964	GG	TT	1947044409
SNP_P4_180627_1971	NW_004517979.1	Scaffold3228	1971	TT	CC	1947044411

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_180628_1989	NW_004517979.1	Scaffold3228	1989	AA	TT	1947044413
SNP_P4_180629_3058	NW_004517979.1	Scaffold3228	3058	CC	TT	1947044415
SNP_P4_180630_4732	NW_004517979.1	Scaffold3228	4732	AA	GG	1947044417
SNP_P4_180631_4744	NW_004517979.1	Scaffold3228	4744	TT	CC	1947044419
SNP_P4_180632_5117	NW_004517979.1	Scaffold3228	5117	AA	CC	1947044421
SNP_P4_180633_5179	NW_004517979.1	Scaffold3228	5179	TT	GG	1947044423
SNP_P4_180634_5203	NW_004517979.1	Scaffold3228	5203	TT	CC	1947044424
SNP_P4_180635_5239	NW_004517979.1	Scaffold3228	5239	CC	GG	1947044426
SNP_P4_180636_8016	NW_004517979.1	Scaffold3228	8016	CC	TT	1947044428
SNP_P4_180637_8028	NW_004517979.1	Scaffold3228	8028	GG	CC	1947044430
SNP_P4_180638_8151	NW_004517979.1	Scaffold3228	8151	TT	GG	1947044432
SNP_P4_180639_8438	NW_004517979.1	Scaffold3228	8438	TT	CC	1947044434
SNP_P4_180640_8510	NW_004517979.1	Scaffold3228	8510	AA	GG	1947044436
SNP_P4_180641_8518	NW_004517979.1	Scaffold3228	8518	AA	GG	1947044438
SNP_P4_180642_8534	NW_004517979.1	Scaffold3228	8534	AA	GG	1947044439
SNP_P4_180643_8553	NW_004517979.1	Scaffold3228	8553	AA	GG	1947044441
SNP_P4_180644_9298	NW_004517979.1	Scaffold3228	9298	GG	AA	1947044443
SNP_P4_180645_15187	NW_004517979.1	Scaffold3228	15187	GG	AA	1947044445
SNP_P4_180646_20869	NW_004517979.1	Scaffold3228	20869	CC	GG	1947044447
SNP_P4_180647_21255	NW_004517979.1	Scaffold3228	21255	TT	CC	1947044449
SNP_P4_180648_21504	NW_004517979.1	Scaffold3228	21504	CC	TT	1947044451
SNP_P4_180649_22173	NW_004517979.1	Scaffold3228	22173	TT	CC	1947044453
SNP_P4_180650_23711	NW_004517979.1	Scaffold3228	23711	TT	AA	1947044455
SNP_P4_180651_24785	NW_004517979.1	Scaffold3228	24785	TT	AA	1947044457
SNP_P4_180652_26609	NW_004517979.1	Scaffold3228	26609	CC	AA	1947044459
SNP_P4_180653_43196	NW_004517979.1	Scaffold3228	43196	GG	AA	1947044461
SNP_P4_180655_51329	NW_004517979.1	Scaffold3228	51329	CC	TT	1947044463
SNP_P4_180656_51342	NW_004517979.1	Scaffold3228	51342	CC	GG	1947044465
SNP_P4_180657_54394	NW_004517979.1	Scaffold3228	54394	TT	CC	1947044467
SNP_P4_180658_54441	NW_004517979.1	Scaffold3228	54441	CC	TT	1947044469
SNP_P4_180659_54528	NW_004517979.1	Scaffold3228	54528	TT	AA	1947044470
SNP_P4_180660_56047	NW_004517979.1	Scaffold3228	56047	AA	TT	1947044472
SNP_P4_180661_56222	NW_004517979.1	Scaffold3228	56222	CC	GG	1947044474
SNP_P4_180662_785	NW_004517980.1	Scaffold3229	785	TT	AA	1947044476
SNP_P4_180663_890	NW_004517980.1	Scaffold3229	890	GG	AA	1947044478
SNP_P4_180664_961	NW_004517980.1	Scaffold3229	961	CC	AA	1947044480
SNP_P4_180665_1229	NW_004517980.1	Scaffold3229	1229	TT	AA	1947044482
SNP_P4_180666_1381	NW_004517980.1	Scaffold3229	1381	GG	CC	1947044484
SNP_P4_180667_1568	NW_004517980.1	Scaffold3229	1568	CC	AA	1947044486
SNP_P4_180668_1593	NW_004517980.1	Scaffold3229	1593	TT	CC	1947044488
SNP_P4_180669_1594	NW_004517980.1	Scaffold3229	1594	TT	CC	1947044490
SNP_P4_180670_1616	NW_004517980.1	Scaffold3229	1616	CC	TT	1947044492

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_180672_1701	NW_004517980.1	Scaffold3229	1701	TT	AA	1947044496
SNP_P4_180673_4880	NW_004517980.1	Scaffold3229	4880	CC	AA	1947044498
SNP_P4_180674_4918	NW_004517980.1	Scaffold3229	4918	AA	GG	1947044499
SNP_P4_180675_4987	NW_004517980.1	Scaffold3229	4987	GG	AA	1947044501
SNP_P4_180676_5012	NW_004517980.1	Scaffold3229	5012	GG	AA	1947044503
SNP_P4_180677_5108	NW_004517980.1	Scaffold3229	5108	AA	CC	1947044505
SNP_P4_180678_5160	NW_004517980.1	Scaffold3229	5160	CC	TT	1947044507
SNP_P4_180679_5178	NW_004517980.1	Scaffold3229	5178	TT	GG	1947044509
SNP_P4_180680_5240	NW_004517980.1	Scaffold3229	5240	CC	TT	1947044511
SNP_P4_180681_5273	NW_004517980.1	Scaffold3229	5273	TT	AA	1947044513
SNP_P4_180682_5281	NW_004517980.1	Scaffold3229	5281	AA	TT	1947044515
SNP_P4_180683_5287	NW_004517980.1	Scaffold3229	5287	TT	AA	1947044517
SNP_P4_180685_5500	NW_004517980.1	Scaffold3229	5500	CC	TT	1947044519
SNP_P4_180686_5555	NW_004517980.1	Scaffold3229	5555	TT	AA	1947044520
SNP_P4_180687_5608	NW_004517980.1	Scaffold3229	5608	AA	GG	1947044522
SNP_P4_180688_5630	NW_004517980.1	Scaffold3229	5630	CC	TT	1947044524
SNP_P4_180689_5650	NW_004517980.1	Scaffold3229	5650	CC	TT	1947044526
SNP_P4_180690_5667	NW_004517980.1	Scaffold3229	5667	GG	AA	1947044528
SNP_P4_180691_5802	NW_004517980.1	Scaffold3229	5802	TT	CC	1947044529
SNP_P4_180693_5805	NW_004517980.1	Scaffold3229	5805	TT	AA	1947044531
SNP_P4_180694_5806	NW_004517980.1	Scaffold3229	5806	CC	AA	1947044533
SNP_P4_180696_5938	NW_004517980.1	Scaffold3229	5938	CC	AA	1947044535
SNP_P4_180697_5968	NW_004517980.1	Scaffold3229	5968	GG	AA	1947044537
SNP_P4_180698_5977	NW_004517980.1	Scaffold3229	5977	CC	AA	1947044539
SNP_P4_180699_6024	NW_004517980.1	Scaffold3229	6024	AA	GG	1947044541
SNP_P4_180700_6036	NW_004517980.1	Scaffold3229	6036	TT	CC	1947044543
SNP_P4_180701_6079	NW_004517980.1	Scaffold3229	6079	AA	GG	1947044545
SNP_P4_180702_6090	NW_004517980.1	Scaffold3229	6090	CC	TT	1947044547
SNP_P4_180703_6102	NW_004517980.1	Scaffold3229	6102	CC	AA	1947044549
SNP_P4_180704_6176	NW_004517980.1	Scaffold3229	6176	CC	TT	1947044551
SNP_P4_180705_6288	NW_004517980.1	Scaffold3229	6288	AA	GG	1947044553
SNP_P4_180706_6290	NW_004517980.1	Scaffold3229	6290	AA	GG	1947044554
SNP_P4_180707_6303	NW_004517980.1	Scaffold3229	6303	GG	AA	1947044556
SNP_P4_180708_6305	NW_004517980.1	Scaffold3229	6305	AA	GG	1947044558
SNP_P4_180709_6389	NW_004517980.1	Scaffold3229	6389	TT	CC	1947044560
SNP_P4_180710_6400	NW_004517980.1	Scaffold3229	6400	AA	GG	1947044562
SNP_P4_180711_6410	NW_004517980.1	Scaffold3229	6410	CC	TT	1947044564
SNP_P4_180712_6424	NW_004517980.1	Scaffold3229	6424	AA	TT	1947044566
SNP_P4_180713_6464	NW_004517980.1	Scaffold3229	6464	TT	AA	1947044568
SNP_P4_180714_6607	NW_004517980.1	Scaffold3229	6607	TT	CC	1947044570
SNP_P4_180715_6671	NW_004517980.1	Scaffold3229	6671	TT	GG	1947044572

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_180718_6974	NW_004517980.1	Scaffold3229	6974	AA	TT	1947044576
SNP_P4_180719_7162	NW_004517980.1	Scaffold3229	7162	TT	CC	1947044578
SNP_P4_180720_7752	NW_004517980.1	Scaffold3229	7752	TT	AA	1947044580
SNP_P4_180721_8645	NW_004517980.1	Scaffold3229	8645	AA	TT	1947044581
SNP_P4_180723_9104	NW_004517980.1	Scaffold3229	9104	GG	AA	1947044583
SNP_P4_180724_1419	NW_004517981.1	Scaffold3230	1419	AA	CC	1947044585
SNP_P4_180725_1887	NW_004517982.1	Scaffold3233	1887	TT	CC	1947044587
SNP_P4_180726_168	NW_004517983.1	Scaffold3234	168	GG	TT	1947044589
SNP_P4_180727_328	NW_004517983.1	Scaffold3234	328	TT	CC	1947044591
SNP_P4_180728_727	NW_004517983.1	Scaffold3234	727	GG	TT	1947044593
SNP_P4_180729_8486	NW_004517983.1	Scaffold3234	8486	CC	AA	1947044595
SNP_P4_180730_8498	NW_004517983.1	Scaffold3234	8498	TT	AA	1947044597
SNP_P4_180731_8535	NW_004517983.1	Scaffold3234	8535	CC	TT	1947044599
SNP_P4_180732_10260	NW_004517983.1	Scaffold3234	10260	GG	AA	1947044601
SNP_P4_180733_11119	NW_004517983.1	Scaffold3234	11119	AA	GG	1947044603
SNP_P4_180734_11120	NW_004517983.1	Scaffold3234	11120	GG	TT	1947044605
SNP_P4_180735_11250	NW_004517983.1	Scaffold3234	11250	GG	AA	1947044607
SNP_P4_180736_11260	NW_004517983.1	Scaffold3234	11260	TT	AA	1947044608
SNP_P4_180737_11261	NW_004517983.1	Scaffold3234	11261	GG	AA	1947044610
SNP_P4_180738_11262	NW_004517983.1	Scaffold3234	11262	CC	TT	1947044612
SNP_P4_180739_11327	NW_004517983.1	Scaffold3234	11327	TT	CC	1947044614
SNP_P4_180740_11509	NW_004517983.1	Scaffold3234	11509	AA	GG	1947044616
SNP_P4_180742_12498	NW_004517983.1	Scaffold3234	12498	GG	AA	1947044618
SNP_P4_180743_476	NW_004517984.1	Scaffold3235	476	GG	AA	1947044620
SNP_P4_180744_478	NW_004517984.1	Scaffold3235	478	TT	CC	1947044622
SNP_P4_180745_541	NW_004517984.1	Scaffold3235	541	TT	CC	1947044624
SNP_P4_180746_629	NW_004517984.1	Scaffold3235	629	GG	TT	1947044626
SNP_P4_180747_686	NW_004517984.1	Scaffold3235	686	TT	CC	1947044628
SNP_P4_180748_712	NW_004517984.1	Scaffold3235	712	CC	TT	1947044630
SNP_P4_180749_906	NW_004517984.1	Scaffold3235	906	GG	AA	1947044632
SNP_P4_180750_910	NW_004517984.1	Scaffold3235	910	CC	TT	1947044634
SNP_P4_180751_930	NW_004517984.1	Scaffold3235	930	TT	CC	1947044636
SNP_P4_180752_1013	NW_004517984.1	Scaffold3235	1013	GG	TT	1947044638
SNP_P4_180753_1266	NW_004517984.1	Scaffold3235	1266	TT	AA	1947044640
SNP_P4_180754_1112	NW_004517986.1	Scaffold3237	1112	TT	AA	1947044642
SNP_P4_180755_1232	NW_004517986.1	Scaffold3237	1232	TT	CC	1947044644
SNP_P4_180756_1261	NW_004517986.1	Scaffold3237	1261	TT	CC	1947044646
SNP_P4_180757_63	NW_004517989.1	Scaffold3241	63	AA	CC	1947044648
SNP_P4_180758_64	NW_004517989.1	Scaffold3241	64	AA	GG	1947044650
SNP_P4_180759_72	NW_004517989.1	Scaffold3241	72	TT	CC	1947044651
SNP_P4_180760_162	NW_004517989.1	Scaffold3241	162	GG	AA	1947044653

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_180761_170	NW_004517989.1	Scaffold3241	170	GG	AA	1947044655
SNP_P4_180762_456	NW_004517989.1	Scaffold3241	456	CC	AA	1947044657
SNP_P4_180763_536	NW_004517989.1	Scaffold3241	536	GG	AA	1947044659
SNP_P4_180764_552	NW_004517989.1	Scaffold3241	552	CC	TT	1947044661
SNP_P4_180765_603	NW_004517989.1	Scaffold3241	603	GG	AA	1947044663
SNP_P4_180766_611	NW_004517989.1	Scaffold3241	611	GG	AA	1947044665
SNP_P4_180767_682	NW_004517989.1	Scaffold3241	682	TT	CC	1947044667
SNP_P4_180768_693	NW_004517989.1	Scaffold3241	693	TT	CC	1947044669
SNP_P4_180769_751	NW_004517989.1	Scaffold3241	751	AA	GG	1947044671
SNP_P4_180770_753	NW_004517989.1	Scaffold3241	753	TT	GG	1947044673
SNP_P4_180771_879	NW_004517989.1	Scaffold3241	879	GG	AA	1947044675
SNP_P4_180772_943	NW_004517989.1	Scaffold3241	943	CC	TT	1947044677
SNP_P4_180774_1044	NW_004517989.1	Scaffold3241	1044	AA	GG	1947044678
SNP_P4_180775_1049	NW_004517989.1	Scaffold3241	1049	TT	CC	1947044680
SNP_P4_180776_1082	NW_004517989.1	Scaffold3241	1082	GG	CC	1947044682
SNP_P4_180777_1135	NW_004517989.1	Scaffold3241	1135	AA	TT	1947044685
SNP_P4_180778_972	NW_004517990.1	Scaffold3242	972	GG	AA	1947044687
SNP_P4_180779_983	NW_004517990.1	Scaffold3242	983	GG	AA	1947044689
SNP_P4_180781_3434	NW_004517990.1	Scaffold3242	3434	GG	AA	1947044691
SNP_P4_180782_3512	NW_004517990.1	Scaffold3242	3512	GG	AA	1947044693
SNP_P4_180783_3517	NW_004517990.1	Scaffold3242	3517	TT	GG	1947044695
SNP_P4_180784_3552	NW_004517990.1	Scaffold3242	3552	TT	GG	1947044697
SNP_P4_180785_3558	NW_004517990.1	Scaffold3242	3558	AA	GG	1947044699
SNP_P4_180786_3579	NW_004517990.1	Scaffold3242	3579	GG	CC	1947044701
SNP_P4_180787_6157	NW_004517990.1	Scaffold3242	6157	CC	AA	1947044703
SNP_P4_180788_6170	NW_004517990.1	Scaffold3242	6170	CC	AA	1947044705
SNP_P4_180789_6454	NW_004517990.1	Scaffold3242	6454	CC	AA	1947044707
SNP_P4_180790_6511	NW_004517990.1	Scaffold3242	6511	TT	CC	1947044709
SNP_P4_180791_6521	NW_004517990.1	Scaffold3242	6521	AA	GG	1947044711
SNP_P4_180792_6641	NW_004517990.1	Scaffold3242	6641	GG	AA	1947044713
SNP_P4_180793_6666	NW_004517990.1	Scaffold3242	6666	TT	CC	1947044715
SNP_P4_180794_6686	NW_004517990.1	Scaffold3242	6686	CC	TT	1947044717
SNP_P4_180795_6705	NW_004517990.1	Scaffold3242	6705	TT	AA	1947044718
SNP_P4_180796_6711	NW_004517990.1	Scaffold3242	6711	CC	TT	1947044720
SNP_P4_180797_9692	NW_004517990.1	Scaffold3242	9692	TT	AA	1947044722
SNP_P4_180798_9716	NW_004517990.1	Scaffold3242	9716	TT	CC	1947044724
SNP_P4_180799_9727	NW_004517990.1	Scaffold3242	9727	TT	CC	1947044726
SNP_P4_180800_11931	NW_004517991.1	Scaffold3243	11931	TT	CC	1947044728
SNP_P4_180801_19633	NW_004517991.1	Scaffold3243	19633	AA	TT	1947044730
SNP_P4_180802_19651	NW_004517991.1	Scaffold3243	19651	CC	TT	1947044732
SNP_P4_180803_19657	NW_004517991.1	Scaffold3243	19657	CC	TT	1947044734
SNP_P4_180804_19896	NW_004517991.1	Scaffold3243	19896	TT	CC	1947044736

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_180806_20457	NW_004517991.1	Scaffold3243	20457	AA	TT	1947044739
SNP_P4_180807_20480	NW_004517991.1	Scaffold3243	20480	GG	CC	1947044741
SNP_P4_180808_20490	NW_004517991.1	Scaffold3243	20490	AA	GG	1947044743
SNP_P4_180809_20516	NW_004517991.1	Scaffold3243	20516	GG	TT	1947044745
SNP_P4_180810_20555	NW_004517991.1	Scaffold3243	20555	GG	AA	1947044747
SNP_P4_180811_20654	NW_004517991.1	Scaffold3243	20654	AA	TT	1947044749
SNP_P4_180812_20675	NW_004517991.1	Scaffold3243	20675	CC	GG	1947044751
SNP_P4_180813_20695	NW_004517991.1	Scaffold3243	20695	AA	CC	1947044753
SNP_P4_180814_20782	NW_004517991.1	Scaffold3243	20782	CC	TT	1947044755
SNP_P4_180816_11134	NW_004517992.1	Scaffold3245	11134	GG	CC	1947044757
SNP_P4_180817_11693	NW_004517992.1	Scaffold3245	11693	CC	TT	1947044759
SNP_P4_180818_13460	NW_004517992.1	Scaffold3245	13460	CC	TT	1947044761
SNP_P4_180819_13520	NW_004517992.1	Scaffold3245	13520	AA	TT	1947044762
SNP_P4_180820_13640	NW_004517992.1	Scaffold3245	13640	TT	CC	1947044764
SNP_P4_180821_13646	NW_004517992.1	Scaffold3245	13646	GG	TT	1947044766
SNP_P4_180822_13650	NW_004517992.1	Scaffold3245	13650	GG	AA	1947044768
SNP_P4_180823_13677	NW_004517992.1	Scaffold3245	13677	GG	AA	1947044770
SNP_P4_180824_13680	NW_004517992.1	Scaffold3245	13680	TT	CC	1947044772
SNP_P4_180825_13690	NW_004517992.1	Scaffold3245	13690	TT	CC	1947044774
SNP_P4_180826_13744	NW_004517992.1	Scaffold3245	13744	CC	TT	1947044776
SNP_P4_180827_13817	NW_004517992.1	Scaffold3245	13817	AA	GG	1947044777
SNP_P4_180828_13867	NW_004517992.1	Scaffold3245	13867	TT	AA	1947044779
SNP_P4_180829_13873	NW_004517992.1	Scaffold3245	13873	TT	AA	1947044781
SNP_P4_180830_13874	NW_004517992.1	Scaffold3245	13874	GG	AA	1947044783
SNP_P4_180831_13894	NW_004517992.1	Scaffold3245	13894	CC	TT	1947044785
SNP_P4_180832_13933	NW_004517992.1	Scaffold3245	13933	TT	CC	1947044787
SNP_P4_180833_13939	NW_004517992.1	Scaffold3245	13939	CC	TT	1947044788
SNP_P4_180834_523	NW_004517995.1	Scaffold3251	523	CC	AA	1947044789
SNP_P4_180835_762	NW_004517995.1	Scaffold3251	762	AA	GG	1947044790
SNP_P4_180836_2690	NW_004517995.1	Scaffold3251	2690	GG	AA	1947044791
SNP_P4_180837_5497	NW_004517995.1	Scaffold3251	5497	AA	TT	1947044793
SNP_P4_180838_6936	NW_004517995.1	Scaffold3251	6936	AA	GG	1947044795
SNP_P4_180839_8533	NW_004517995.1	Scaffold3251	8533	GG	CC	1947044797
SNP_P4_180840_9075	NW_004517995.1	Scaffold3251	9075	TT	CC	1947044799
SNP_P4_180841_9436	NW_004517995.1	Scaffold3251	9436	GG	AA	1947044801
SNP_P4_180842_9991	NW_004517995.1	Scaffold3251	9991	GG	CC	1947044803
SNP_P4_180843_13360	NW_004517995.1	Scaffold3251	13360	CC	AA	1947044804
SNP_P4_180844_14842	NW_004517995.1	Scaffold3251	14842	TT	AA	1947044805
SNP_P4_180845_14843	NW_004517995.1	Scaffold3251	14843	CC	TT	1947044806
SNP_P4_180846_15320	NW_004517995.1	Scaffold3251	15320	AA	GG	1947044807
SNP_P4_180847_17555	NW_004517995.1	Scaffold3251	17555	AA	CC	1947044808

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_180849_17617	NW_004517995.1	Scaffold3251	17617	CC	GG	1947044810
SNP_P4_180850_17620	NW_004517995.1	Scaffold3251	17620	AA	TT	1947044811
SNP_P4_180851_17629	NW_004517995.1	Scaffold3251	17629	AA	CC	1947044812
SNP_P4_180852_742	NW_004517997.1	Scaffold3254_2	742	TT	CC	1947044813
SNP_P4_180853_775	NW_004517997.1	Scaffold3254_2	775	AA	GG	1947044814
SNP_P4_180854_876	NW_004517997.1	Scaffold3254_2	876	CC	TT	1947044815
SNP_P4_180855_30089	NW_004517997.1	Scaffold3254_2	30089	TT	CC	1947044816
SNP_P4_180857_86995	NW_004517997.1	Scaffold3254_2	86995	TT	AA	1947044817
SNP_P4_180860_100860	NW_004517997.1	Scaffold3254_2	100860	GG	AA	1947044818
SNP_P4_180861_118095	NW_004517997.1	Scaffold3254_2	118095	GG	AA	1947044819
SNP_P4_180862_132059	NW_004517997.1	Scaffold3254_2	132059	TT	AA	1947044820
SNP_P4_180864_147326	NW_004517997.1	Scaffold3254_2	147326	TT	CC	1947044821
SNP_P4_180865_147994	NW_004517997.1	Scaffold3254_2	147994	CC	TT	1947044822
SNP_P4_180867_186306	NW_004517997.1	Scaffold3254_2	186306	AA	GG	1947044824
SNP_P4_180869_213860	NW_004517997.1	Scaffold3254_2	213860	TT	GG	1947044825
SNP_P4_180870_231019	NW_004517997.1	Scaffold3254_2	231019	CC	GG	1947044827
SNP_P4_180871_234860	NW_004517997.1	Scaffold3254_2	234860	GG	TT	1947044829
SNP_P4_180872_18908	NW_004518000.1	Scaffold3258	18908	CC	GG	1947044831
SNP_P4_180873_19467	NW_004518000.1	Scaffold3258	19467	GG	AA	1947044833
SNP_P4_180874_19506	NW_004518000.1	Scaffold3258	19506	TT	CC	1947044835
SNP_P4_180875_26583	NW_004518000.1	Scaffold3258	26583	CC	TT	1947044837
SNP_P4_180876_28857	NW_004518000.1	Scaffold3258	28857	GG	AA	1947044839
SNP_P4_180877_31460	NW_004518000.1	Scaffold3258	31460	GG	TT	1947044841
SNP_P4_180878_32057	NW_004518000.1	Scaffold3258	32057	CC	TT	1947044843
SNP_P4_180879_33163	NW_004518000.1	Scaffold3258	33163	AA	TT	1947044845
SNP_P4_180880_33172	NW_004518000.1	Scaffold3258	33172	CC	AA	1947044847
SNP_P4_180881_33966	NW_004518000.1	Scaffold3258	33966	AA	CC	1947044849
SNP_P4_180883_34532	NW_004518000.1	Scaffold3258	34532	CC	GG	1947044851
SNP_P4_180885_34962	NW_004518000.1	Scaffold3258	34962	GG	TT	1947044853
SNP_P4_180886_35548	NW_004518000.1	Scaffold3258	35548	CC	TT	1947044855
SNP_P4_180887_35645	NW_004518000.1	Scaffold3258	35645	CC	GG	1947044857
SNP_P4_180888_35853	NW_004518000.1	Scaffold3258	35853	GG	TT	1947044859
SNP_P4_180889_35971	NW_004518000.1	Scaffold3258	35971	TT	CC	1947044861
SNP_P4_180890_37354	NW_004518000.1	Scaffold3258	37354	TT	CC	1947044863
SNP_P4_180891_37653	NW_004518000.1	Scaffold3258	37653	GG	AA	1947044865
SNP_P4_180892_37765	NW_004518000.1	Scaffold3258	37765	TT	CC	1947044867
SNP_P4_180893_37949	NW_004518000.1	Scaffold3258	37949	TT	AA	1947044869
SNP_P4_180894_37950	NW_004518000.1	Scaffold3258	37950	TT	AA	1947044871
SNP_P4_180895_39777	NW_004518000.1	Scaffold3258	39777	TT	CC	1947044873
SNP_P4_180896_40047	NW_004518000.1	Scaffold3258	40047	CC	TT	1947044875
SNP_P4_180897_40324	NW_004518000.1	Scaffold3258	40324	CC	AA	1947044877

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_180899_41387	NW_004518000.1	Scaffold3258	41387	AA	GG	1947044881
SNP_P4_180901_41507	NW_004518000.1	Scaffold3258	41507	CC	TT	1947044883
SNP_P4_180902_41840	NW_004518000.1	Scaffold3258	41840	AA	GG	1947044885
SNP_P4_180903_41841	NW_004518000.1	Scaffold3258	41841	TT	AA	1947044887
SNP_P4_180904_42948	NW_004518000.1	Scaffold3258	42948	AA	GG	1947044889
SNP_P4_180905_43898	NW_004518000.1	Scaffold3258	43898	GG	TT	1947044891
SNP_P4_180906_45551	NW_004518000.1	Scaffold3258	45551	GG	AA	1947044893
SNP_P4_180907_45976	NW_004518000.1	Scaffold3258	45976	TT	GG	1947044895
SNP_P4_180908_46494	NW_004518000.1	Scaffold3258	46494	CC	TT	1947044897
SNP_P4_180910_46975	NW_004518000.1	Scaffold3258	46975	CC	AA	1947044899
SNP_P4_180911_47285	NW_004518000.1	Scaffold3258	47285	CC	TT	1947044901
SNP_P4_180912_47685	NW_004518000.1	Scaffold3258	47685	GG	TT	1947044903
SNP_P4_180913_47686	NW_004518000.1	Scaffold3258	47686	CC	TT	1947044905
SNP_P4_180914_48327	NW_004518000.1	Scaffold3258	48327	AA	CC	1947044907
SNP_P4_180915_48578	NW_004518000.1	Scaffold3258	48578	CC	TT	1947044909
SNP_P4_180916_48687	NW_004518000.1	Scaffold3258	48687	GG	AA	1947044911
SNP_P4_180917_48717	NW_004518000.1	Scaffold3258	48717	CC	TT	1947044913
SNP_P4_180918_48806	NW_004518000.1	Scaffold3258	48806	TT	AA	1947044915
SNP_P4_180920_48971	NW_004518000.1	Scaffold3258	48971	GG	AA	1947044917
SNP_P4_180923_52403	NW_004518000.1	Scaffold3258	52403	AA	CC	1947044919
SNP_P4_180924_52453	NW_004518000.1	Scaffold3258	52453	TT	GG	1947044920
SNP_P4_180925_52740	NW_004518000.1	Scaffold3258	52740	TT	CC	1947044922
SNP_P4_180926_54397	NW_004518000.1	Scaffold3258	54397	TT	AA	1947044924
SNP_P4_180927_55436	NW_004518000.1	Scaffold3258	55436	GG	AA	1947044926
SNP_P4_180928_55923	NW_004518000.1	Scaffold3258	55923	TT	CC	1947044928
SNP_P4_180929_55924	NW_004518000.1	Scaffold3258	55924	AA	TT	1947044930
SNP_P4_180930_57146	NW_004518000.1	Scaffold3258	57146	GG	AA	1947044932
SNP_P4_180931_58295	NW_004518000.1	Scaffold3258	58295	CC	TT	1947044934
SNP_P4_180932_58359	NW_004518000.1	Scaffold3258	58359	GG	AA	1947044936
SNP_P4_180933_59048	NW_004518000.1	Scaffold3258	59048	AA	GG	1947044938
SNP_P4_180934_65902	NW_004518000.1	Scaffold3258	65902	CC	TT	1947044939
SNP_P4_180935_66087	NW_004518000.1	Scaffold3258	66087	AA	GG	1947044941
SNP_P4_180936_66521	NW_004518000.1	Scaffold3258	66521	AA	GG	1947044943
SNP_P4_180938_67241	NW_004518000.1	Scaffold3258	67241	TT	CC	1947044945
SNP_P4_180939_68820	NW_004518000.1	Scaffold3258	68820	TT	CC	1947044947
SNP_P4_180940_69007	NW_004518000.1	Scaffold3258	69007	GG	AA	1947044949
SNP_P4_180941_69138	NW_004518000.1	Scaffold3258	69138	TT	AA	1947044951
SNP_P4_180942_69408	NW_004518000.1	Scaffold3258	69408	AA	GG	1947044953
SNP_P4_180943_69711	NW_004518000.1	Scaffold3258	69711	AA	GG	1947044955
SNP_P4_180944_70440	NW_004518000.1	Scaffold3258	70440	GG	AA	1947044957
SNP_P4_180945_70787	NW_004518000.1	Scaffold3258	70787	AA	GG	1947044959

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SNP_P4_180948_71849	NW_004518000.1	Scaffold3258	71849	TT	AA	1947044963
SNP_P4_180949_72646	NW_004518000.1	Scaffold3258	72646	CC	TT	1947044965
SNP_P4_180950_72946	NW_004518000.1	Scaffold3258	72946	GG	AA	1947044967
SNP_P4_180951_73983	NW_004518000.1	Scaffold3258	73983	AA	GG	1947044969
SNP_P4_180953_74077	NW_004518000.1	Scaffold3258	74077	CC	TT	1947044971
SNP_P4_180954_74576	NW_004518000.1	Scaffold3258	74576	CC	TT	1947044973
SNP_P4_180955_74622	NW_004518000.1	Scaffold3258	74622	AA	TT	1947044974
SNP_P4_180957_75855	NW_004518000.1	Scaffold3258	75855	AA	CC	1947044976
SNP_P4_180958_76532	NW_004518000.1	Scaffold3258	76532	CC	AA	1947044978
SNP_P4_180959_76996	NW_004518000.1	Scaffold3258	76996	GG	AA	1947044980
SNP_P4_180960_77045	NW_004518000.1	Scaffold3258	77045	CC	TT	1947044982
SNP_P4_180961_77245	NW_004518000.1	Scaffold3258	77245	AA	GG	1947044984
SNP_P4_180962_77348	NW_004518000.1	Scaffold3258	77348	CC	TT	1947044986
SNP_P4_180966_77742	NW_004518000.1	Scaffold3258	77742	GG	AA	1947044988
SNP_P4_180967_78286	NW_004518000.1	Scaffold3258	78286	AA	GG	1947044990
SNP_P4_180969_79513	NW_004518000.1	Scaffold3258	79513	AA	GG	1947044992
SNP_P4_180970_79516	NW_004518000.1	Scaffold3258	79516	TT	AA	1947044994
SNP_P4_180971_79520	NW_004518000.1	Scaffold3258	79520	GG	CC	1947044996
SNP_P4_180972_79544	NW_004518000.1	Scaffold3258	79544	TT	CC	1947044998
SNP_P4_180973_79585	NW_004518000.1	Scaffold3258	79585	CC	TT	1947045000
SNP_P4_180974_79588	NW_004518000.1	Scaffold3258	79588	TT	GG	1947045002
SNP_P4_180975_79603	NW_004518000.1	Scaffold3258	79603	TT	CC	1947045004
SNP_P4_180976_79607	NW_004518000.1	Scaffold3258	79607	AA	TT	1947045006
SNP_P4_180977_79610	NW_004518000.1	Scaffold3258	79610	GG	AA	1947045008
SNP_P4_180978_79618	NW_004518000.1	Scaffold3258	79618	AA	GG	1947045010
SNP_P4_180979_79630	NW_004518000.1	Scaffold3258	79630	TT	GG	1947045012
SNP_P4_180980_79649	NW_004518000.1	Scaffold3258	79649	AA	TT	1947045014
SNP_P4_180981_79651	NW_004518000.1	Scaffold3258	79651	AA	CC	1947045016
SNP_P4_180982_79663	NW_004518000.1	Scaffold3258	79663	CC	TT	1947045018
SNP_P4_180983_79821	NW_004518000.1	Scaffold3258	79821	AA	TT	1947045020
SNP_P4_180984_79933	NW_004518000.1	Scaffold3258	79933	TT	CC	1947045022
SNP_P4_180985_79996	NW_004518000.1	Scaffold3258	79996	AA	GG	1947045024
SNP_P4_180986_80028	NW_004518000.1	Scaffold3258	80028	GG	AA	1947045026
SNP_P4_180987_80273	NW_004518000.1	Scaffold3258	80273	GG	AA	1947045028
SNP_P4_180988_81266	NW_004518000.1	Scaffold3258	81266	TT	CC	1947045030
SNP_P4_180990_81857	NW_004518000.1	Scaffold3258	81857	TT	CC	1947045032
SNP_P4_180991_82528	NW_004518000.1	Scaffold3258	82528	TT	AA	1947045034
SNP_P4_180992_82907	NW_004518000.1	Scaffold3258	82907	GG	TT	1947045036
SNP_P4_180993_83145	NW_004518000.1	Scaffold3258	83145	AA	GG	1947045038
SNP_P4_180994_83180	NW_004518000.1	Scaffold3258	83180	AA	GG	1947045040
SNP_P4_180995_84134	NW_004518000.1	Scaffold3258	84134	TT	CC	1947045041

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_180997_84286	NW_004518000.1	Scaffold3258	84286	TT	GG	1947045045
SNP_P4_180999_85057	NW_004518000.1	Scaffold3258	85057	AA	GG	1947045047
SNP_P4_181000_86167	NW_004518000.1	Scaffold3258	86167	AA	GG	1947045049
SNP_P4_181001_87145	NW_004518000.1	Scaffold3258	87145	AA	GG	1947045051
SNP_P4_181002_87686	NW_004518000.1	Scaffold3258	87686	GG	CC	1947045053
SNP_P4_181003_88172	NW_004518000.1	Scaffold3258	88172	CC	GG	1947045055
SNP_P4_181004_89097	NW_004518000.1	Scaffold3258	89097	TT	GG	1947045057
SNP_P4_181005_89179	NW_004518000.1	Scaffold3258	89179	AA	GG	1947045059
SNP_P4_181006_89469	NW_004518000.1	Scaffold3258	89469	TT	CC	1947045061
SNP_P4_181007_89546	NW_004518000.1	Scaffold3258	89546	TT	CC	1947045063
SNP_P4_181008_89559	NW_004518000.1	Scaffold3258	89559	TT	CC	1947045065
SNP_P4_181009_89798	NW_004518000.1	Scaffold3258	89798	TT	CC	1947045067
SNP_P4_181010_91166	NW_004518000.1	Scaffold3258	91166	TT	CC	1947045069
SNP_P4_181011_91180	NW_004518000.1	Scaffold3258	91180	GG	AA	1947045071
SNP_P4_181012_91182	NW_004518000.1	Scaffold3258	91182	TT	CC	1947045073
SNP_P4_181013_92093	NW_004518000.1	Scaffold3258	92093	AA	CC	1947045075
SNP_P4_181014_92310	NW_004518000.1	Scaffold3258	92310	CC	GG	1947045077
SNP_P4_181015_92403	NW_004518000.1	Scaffold3258	92403	CC	TT	1947045078
SNP_P4_181016_93007	NW_004518000.1	Scaffold3258	93007	TT	GG	1947045080
SNP_P4_181017_93271	NW_004518000.1	Scaffold3258	93271	AA	TT	1947045082
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SNP_P4_181019_94190	NW_004518000.1	Scaffold3258	94190	GG	AA	1947045086
SNP_P4_181020_94259	NW_004518000.1	Scaffold3258	94259	AA	GG	1947045088
SNP_P4_181021_440	NW_004518005.1	Scaffold3272	440	GG	TT	1947045090
SNP_P4_181022_470	NW_004518005.1	Scaffold3272	470	GG	CC	1947045092
SNP_P4_181023_2569	NW_004518005.1	Scaffold3272	2569	AA	GG	1947045094
SNP_P4_181024_2676	NW_004518005.1	Scaffold3272	2676	GG	TT	1947045096
SNP_P4_181025_376	NW_004518009.1	Scaffold3276	376	CC	TT	1947045098
SNP_P4_181026_554	NW_004518009.1	Scaffold3276	554	TT	CC	1947045100
SNP_P4_181027_856	NW_004518009.1	Scaffold3276	856	GG	CC	1947045101
SNP_P4_181028_2157	NW_004518010.1	Scaffold3277	2157	GG	AA	1947045103
SNP_P4_181029_2172	NW_004518010.1	Scaffold3277	2172	GG	AA	1947045105
SNP_P4_181030_2192	NW_004518010.1	Scaffold3277	2192	GG	AA	1947045107
SNP_P4_181031_2223	NW_004518010.1	Scaffold3277	2223	CC	TT	1947045109
SNP_P4_181032_2244	NW_004518010.1	Scaffold3277	2244	TT	AA	1947045111
SNP_P4_181033_2250	NW_004518010.1	Scaffold3277	2250	GG	TT	1947045113
SNP_P4_181034_2411	NW_004518010.1	Scaffold3277	2411	AA	GG	1947045115
SNP_P4_181035_2414	NW_004518010.1	Scaffold3277	2414	GG	AA	1947045117
SNP_P4_181036_2646	NW_004518010.1	Scaffold3277	2646	TT	CC	1947045119
SNP_P4_181037_3000	NW_004518010.1	Scaffold3277	3000	CC	TT	1947045121
SNP_P4_181038_17587	NW_004518013.1	Scaffold3280	17587	TT	GG	1947045123

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_181040_19478	NW_004518013.1	Scaffold3280	19478	CC	TT	1947045127
SNP_P4_181041_19748	NW_004518013.1	Scaffold3280	19748	CC	AA	1947045129
SNP_P4_181042_19755	NW_004518013.1	Scaffold3280	19755	GG	AA	1947045130
SNP_P4_181043_20294	NW_004518013.1	Scaffold3280	20294	AA	GG	1947045132
SNP_P4_181044_20322	NW_004518013.1	Scaffold3280	20322	TT	CC	1947045134
SNP_P4_181045_20371	NW_004518013.1	Scaffold3280	20371	TT	AA	1947045136
SNP_P4_181046_28169	NW_004518013.1	Scaffold3280	28169	TT	CC	1947045138
SNP_P4_181047_37048	NW_004518013.1	Scaffold3280	37048	TT	CC	1947045140
SNP_P4_181048_37144	NW_004518013.1	Scaffold3280	37144	TT	GG	1947045142
SNP_P4_181049_37164	NW_004518013.1	Scaffold3280	37164	GG	AA	1947045144
SNP_P4_181050_37231	NW_004518013.1	Scaffold3280	37231	CC	AA	1947045146
SNP_P4_181051_37385	NW_004518013.1	Scaffold3280	37385	GG	TT	1947045148
SNP_P4_181052_37464	NW_004518013.1	Scaffold3280	37464	CC	TT	1947045150
SNP_P4_181053_43854	NW_004518013.1	Scaffold3280	43854	AA	GG	1947045152
SNP_P4_181054_58144	NW_004518013.1	Scaffold3280	58144	TT	AA	1947045154
SNP_P4_181055_64234	NW_004518013.1	Scaffold3280	64234	GG	AA	1947045156
SNP_P4_181056_65062	NW_004518013.1	Scaffold3280	65062	AA	GG	1947045158
SNP_P4_181057_65120	NW_004518013.1	Scaffold3280	65120	AA	GG	1947045160
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SNP_P4_181059_65213	NW_004518013.1	Scaffold3280	65213	AA	GG	1947045164
SNP_P4_181060_65273	NW_004518013.1	Scaffold3280	65273	AA	CC	1947045166
SNP_P4_181061_65571	NW_004518013.1	Scaffold3280	65571	GG	AA	1947045168
SNP_P4_181062_65622	NW_004518013.1	Scaffold3280	65622	TT	CC	1947045169
SNP_P4_181063_88604	NW_004518013.1	Scaffold3280	88604	CC	TT	1947045171
SNP_P4_181064_100490	NW_004518013.1	Scaffold3280	100490	TT	AA	1947045173
SNP_P4_181065_116633	NW_004518013.1	Scaffold3280	116633	AA	GG	1947045175
SNP_P4_181066_126326	NW_004518013.1	Scaffold3280	126326	CC	AA	1947045177
SNP_P4_181067_126330	NW_004518013.1	Scaffold3280	126330	TT	AA	1947045179
SNP_P4_181068_129225	NW_004518013.1	Scaffold3280	129225	GG	AA	1947045181
SNP_P4_181069_778	NW_004518014.1	Scaffold3281	778	CC	TT	1947045183
SNP_P4_181070_981	NW_004518014.1	Scaffold3281	981	CC	GG	1947045185
SNP_P4_181071_1114	NW_004518014.1	Scaffold3281	1114	GG	AA	1947045187
SNP_P4_181072_1143	NW_004518016.1	Scaffold3283	1143	CC	GG	1947045189
SNP_P4_181073_1237	NW_004518016.1	Scaffold3283	1237	GG	AA	1947045191
SNP_P4_181074_4856	NW_004518016.1	Scaffold3283	4856	AA	GG	1947045193
SNP_P4_181076_5227	NW_004518016.1	Scaffold3283	5227	TT	CC	1947045194
SNP_P4_181077_42879	NW_004518016.1	Scaffold3283	42879	AA	GG	1947045196
SNP_P4_181078_45740	NW_004518016.1	Scaffold3283	45740	AA	GG	1947045198
SNP_P4_181079_64886	NW_004518016.1	Scaffold3283	64886	AA	GG	1947045200
SNP_P4_181080_64887	NW_004518016.1	Scaffold3283	64887	GG	TT	1947045202
SNP_P4_181081_64891	NW_004518016.1	Scaffold3283	64891	GG	AA	1947045204

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_181084_66265	NW_004518016.1	Scaffold3283	66265	AA	GG	1947045210
SNP_P4_181085_66514	NW_004518016.1	Scaffold3283	66514	GG	AA	1947045212
SNP_P4_181086_86632	NW_004518016.1	Scaffold3283	86632	GG	AA	1947045214
SNP_P4_181087_546	NW_004518017.1	Scaffold3284	546	GG	TT	1947045216
SNP_P4_181088_550	NW_004518017.1	Scaffold3284	550	CC	TT	1947045218
SNP_P4_181089_739	NW_004518017.1	Scaffold3284	739	TT	GG	1947045220
SNP_P4_181090_767	NW_004518017.1	Scaffold3284	767	CC	AA	1947045222
SNP_P4_181091_784	NW_004518017.1	Scaffold3284	784	TT	CC	1947045224
SNP_P4_181092_900	NW_004518017.1	Scaffold3284	900	AA	CC	1947045226
SNP_P4_181093_2470	NW_004518017.1	Scaffold3284	2470	AA	GG	1947045228
SNP_P4_181094_2705	NW_004518017.1	Scaffold3284	2705	CC	TT	1947045230
SNP_P4_181095_2723	NW_004518017.1	Scaffold3284	2723	CC	TT	1947045232
SNP_P4_181096_2777	NW_004518017.1	Scaffold3284	2777	CC	TT	1947045234
SNP_P4_181097_6159	NW_004518017.1	Scaffold3284	6159	TT	GG	1947045236
SNP_P4_181098_940	NW_004518023.1	Scaffold3293	940	GG	AA	1947045238
SNP_P4_181099_2728	NW_004518023.1	Scaffold3293	2728	GG	AA	1947045240
SNP_P4_181100_5719	NW_004518023.1	Scaffold3293	5719	GG	AA	1947045242
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SNP_P4_181102_7588	NW_004518023.1	Scaffold3293	7588	TT	CC	1947045246
SNP_P4_181103_7699	NW_004518023.1	Scaffold3293	7699	CC	TT	1947045248
SNP_P4_181104_9951	NW_004518023.1	Scaffold3293	9951	CC	TT	1947045250
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SNP_P4_181107_9993	NW_004518023.1	Scaffold3293	9993	AA	TT	1947045255
SNP_P4_181108_9999	NW_004518023.1	Scaffold3293	9999	GG	AA	1947045257
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SNP_P4_181111_10056	NW_004518023.1	Scaffold3293	10056	GG	AA	1947045264
SNP_P4_181112_10068	NW_004518023.1	Scaffold3293	10068	CC	TT	1947045266
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SNP_P4_181114_11753	NW_004518023.1	Scaffold3293	11753	AA	GG	1947045270
SNP_P4_181115_14032	NW_004518023.1	Scaffold3293	14032	AA	GG	1947045272
SNP_P4_181116_1296	NW_004518024.1	Scaffold3297	1296	TT	AA	1947045273
SNP_P4_181117_1299	NW_004518024.1	Scaffold3297	1299	GG	CC	1947045275
SNP_P4_181118_19137	NW_004518025.1	Scaffold3298	19137	AA	GG	1947045277
SNP_P4_181119_840	NW_004518026.1	Scaffold3299	840	TT	AA	1947045279
SNP_P4_181120_123	NW_004518031.1	Scaffold3307	123	AA	CC	1947045281
SNP_P4_181121_124	NW_004518031.1	Scaffold3307	124	TT	AA	1947045283
SNP_P4_181122_363	NW_004518031.1	Scaffold3307	363	CC	AA	1947045285
SNP_P4_181123_416	NW_004518031.1	Scaffold3307	416	AA	TT	1947045287

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_181125_694	NW_004518031.1	Scaffold3307	694	AA	GG	1947045291
SNP_P4_181126_726	NW_004518031.1	Scaffold3307	726	AA	GG	1947045293
SNP_P4_181127_782	NW_004518031.1	Scaffold3307	782	CC	GG	1947045295
SNP_P4_181128_2451	NW_004518031.1	Scaffold3307	2451	AA	CC	1947045297
SNP_P4_181129_3514	NW_004518031.1	Scaffold3307	3514	TT	GG	1947045299
SNP_P4_181130_3599	NW_004518031.1	Scaffold3307	3599	CC	TT	1947045301
SNP_P4_181131_3810	NW_004518031.1	Scaffold3307	3810	GG	AA	1947045302
SNP_P4_181132_3945	NW_004518031.1	Scaffold3307	3945	AA	TT	1947045304
SNP_P4_181133_5125	NW_004518031.1	Scaffold3307	5125	AA	GG	1947045306
SNP_P4_181134_5165	NW_004518031.1	Scaffold3307	5165	TT	GG	1947045308
SNP_P4_181135_5221	NW_004518031.1	Scaffold3307	5221	GG	TT	1947045310
SNP_P4_181136_5222	NW_004518031.1	Scaffold3307	5222	AA	TT	1947045312
SNP_P4_181137_5257	NW_004518031.1	Scaffold3307	5257	CC	TT	1947045314
SNP_P4_181138_5259	NW_004518031.1	Scaffold3307	5259	GG	AA	1947045316
SNP_P4_181139_5282	NW_004518031.1	Scaffold3307	5282	TT	AA	1947045318
SNP_P4_181140_5349	NW_004518031.1	Scaffold3307	5349	CC	TT	1947045320
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SNP_P4_181142_5674	NW_004518031.1	Scaffold3307	5674	AA	GG	1947045324
SNP_P4_181143_5685	NW_004518031.1	Scaffold3307	5685	TT	CC	1947045326
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SNP_P4_181151_10464	NW_004518031.1	Scaffold3307	10464	AA	GG	1947045342
SNP_P4_181152_10666	NW_004518031.1	Scaffold3307	10666	AA	GG	1947045344
SNP_P4_181153_10678	NW_004518031.1	Scaffold3307	10678	TT	AA	1947045346
SNP_P4_181154_11030	NW_004518031.1	Scaffold3307	11030	TT	GG	1947045348
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SNP_P4_181158_13413	NW_004518031.1	Scaffold3307	13413	GG	AA	1947045356
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SNP_P4_181161_17990	NW_004518031.1	Scaffold3307	17990	TT	AA	1947045361
SNP_P4_181162_18171	NW_004518031.1	Scaffold3307	18171	TT	CC	1947045363
SNP_P4_181163_18231	NW_004518031.1	Scaffold3307	18231	TT	AA	1947045365
SNP_P4_181164_18270	NW_004518031.1	Scaffold3307	18270	AA	GG	1947045367
SNP_P4_181165_18292	NW_004518031.1	Scaffold3307	18292	TT	CC	1947045369

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_181167_18346	NW_004518031.1	Scaffold3307	18346	AA	GG	1947045373
SNP_P4_181168_21265	NW_004518031.1	Scaffold3307	21265	GG	AA	1947045375
SNP_P4_181169_21302	NW_004518031.1	Scaffold3307	21302	AA	GG	1947045377
SNP_P4_181170_21332	NW_004518031.1	Scaffold3307	21332	TT	AA	1947045379
SNP_P4_181171_21624	NW_004518031.1	Scaffold3307	21624	GG	AA	1947045381
SNP_P4_181172_22208	NW_004518031.1	Scaffold3307	22208	CC	TT	1947045383
SNP_P4_181173_22264	NW_004518031.1	Scaffold3307	22264	AA	GG	1947045385
SNP_P4_181174_22343	NW_004518031.1	Scaffold3307	22343	AA	GG	1947045387
SNP_P4_181175_22367	NW_004518031.1	Scaffold3307	22367	CC	TT	1947045389
SNP_P4_181176_22453	NW_004518031.1	Scaffold3307	22453	TT	CC	1947045391
SNP_P4_181177_22542	NW_004518031.1	Scaffold3307	22542	TT	AA	1947045393
SNP_P4_181178_23146	NW_004518031.1	Scaffold3307	23146	GG	AA	1947045394
SNP_P4_181179_23148	NW_004518031.1	Scaffold3307	23148	CC	GG	1947045396
SNP_P4_181180_23227	NW_004518031.1	Scaffold3307	23227	AA	CC	1947045398
SNP_P4_181181_23236	NW_004518031.1	Scaffold3307	23236	AA	GG	1947045400
SNP_P4_181182_23243	NW_004518031.1	Scaffold3307	23243	CC	AA	1947045402
SNP_P4_181183_23444	NW_004518031.1	Scaffold3307	23444	AA	CC	1947045404
SNP_P4_181185_1356	NW_004518033.1	Scaffold3309	1356	GG	AA	1947045406
SNP_P4_181186_1663	NW_004518036.1	Scaffold3312	1663	AA	GG	1947045408
SNP_P4_181187_5603	NW_004518038.1	Scaffold3314	5603	GG	AA	1947045410
SNP_P4_181188_5660	NW_004518038.1	Scaffold3314	5660	GG	AA	1947045411
SNP_P4_181189_5832	NW_004518038.1	Scaffold3314	5832	CC	GG	1947045413
SNP_P4_181190_5883	NW_004518038.1	Scaffold3314	5883	TT	AA	1947045415
SNP_P4_181191_6371	NW_004518038.1	Scaffold3314	6371	CC	TT	1947045417
SNP_P4_181192_6666	NW_004518038.1	Scaffold3314	6666	CC	TT	1947045419
SNP_P4_181193_6667	NW_004518038.1	Scaffold3314	6667	CC	TT	1947045421
SNP_P4_181194_7348	NW_004518038.1	Scaffold3314	7348	AA	TT	1947045423
SNP_P4_181195_7349	NW_004518038.1	Scaffold3314	7349	AA	TT	1947045425
SNP_P4_181196_7350	NW_004518038.1	Scaffold3314	7350	AA	TT	1947045427
SNP_P4_181197_7351	NW_004518038.1	Scaffold3314	7351	AA	TT	1947045429
SNP_P4_181198_7352	NW_004518038.1	Scaffold3314	7352	CC	TT	1947045431
SNP_P4_181199_7453	NW_004518038.1	Scaffold3314	7453	AA	GG	1947045433
SNP_P4_181200_7540	NW_004518038.1	Scaffold3314	7540	TT	GG	1947045434
SNP_P4_181201_7656	NW_004518038.1	Scaffold3314	7656	GG	AA	1947045436
SNP_P4_181202_7717	NW_004518038.1	Scaffold3314	7717	AA	GG	1947045438
SNP_P4_181203_7797	NW_004518038.1	Scaffold3314	7797	TT	CC	1947045440
SNP_P4_181204_7801	NW_004518038.1	Scaffold3314	7801	AA	TT	1947045442
SNP_P4_181205_7809	NW_004518038.1	Scaffold3314	7809	TT	CC	1947045444
SNP_P4_181206_287	NW_004518041.1	Scaffold3317	287	CC	GG	1947045446
SNP_P4_181207_294	NW_004518041.1	Scaffold3317	294	AA	CC	1947045448
SNP_P4_181208_299	NW_004518041.1	Scaffold3317	299	TT	GG	1947045450

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_181211_3789	NW_004518041.1	Scaffold3317	3789	AA	TT	1947045454
SNP_P4_181212_709	NW_004518043.1	Scaffold3321	709	CC	TT	1947045456
SNP_P4_181213_6730	NW_004518043.1	Scaffold3321	6730	GG	AA	1947045458
SNP_P4_181214_9902	NW_004518043.1	Scaffold3321	9902	AA	GG	1947045460
SNP_P4_181215_10999	NW_004518043.1	Scaffold3321	10999	CC	TT	1947045462
SNP_P4_181216_13053	NW_004518043.1	Scaffold3321	13053	TT	AA	1947045463
SNP_P4_181217_19947	NW_004518043.1	Scaffold3321	19947	TT	AA	1947045465
SNP_P4_181218_23990	NW_004518043.1	Scaffold3321	23990	GG	AA	1947045467
SNP_P4_181219_24993	NW_004518043.1	Scaffold3321	24993	TT	CC	1947045469
SNP_P4_181221_69147	NW_004518043.1	Scaffold3321	69147	GG	TT	1947045471
SNP_P4_181222_69173	NW_004518043.1	Scaffold3321	69173	TT	CC	1947045473
SNP_P4_181223_69276	NW_004518043.1	Scaffold3321	69276	AA	GG	1947045475
SNP_P4_181224_69282	NW_004518043.1	Scaffold3321	69282	GG	AA	1947045477
SNP_P4_181225_69353	NW_004518043.1	Scaffold3321	69353	AA	GG	1947045479
SNP_P4_181226_69576	NW_004518043.1	Scaffold3321	69576	AA	GG	1947045481
SNP_P4_181229_5107	NW_004518044.1	Scaffold3322	5107	AA	GG	1947045483
SNP_P4_181230_5370	NW_004518044.1	Scaffold3322	5370	AA	TT	1947045485
SNP_P4_181231_6051	NW_004518045.1	Scaffold3323	6051	AA	TT	1947045487
SNP_P4_181232_8706	NW_004518045.1	Scaffold3323	8706	GG	CC	1947045489
SNP_P4_181233_9228	NW_004518045.1	Scaffold3323	9228	AA	TT	1947045490
SNP_P4_181234_9233	NW_004518045.1	Scaffold3323	9233	AA	CC	1947045492
SNP_P4_181235_9236	NW_004518045.1	Scaffold3323	9236	GG	AA	1947045494
SNP_P4_181236_3981	NW_004518048.1	Scaffold3326	3981	TT	GG	1947045496
SNP_P4_181237_4281	NW_004518048.1	Scaffold3326	4281	TT	GG	1947045498
SNP_P4_181238_4582	NW_004518048.1	Scaffold3326	4582	GG	AA	1947045500
SNP_P4_181239_4600	NW_004518048.1	Scaffold3326	4600	CC	TT	1947045502
SNP_P4_181240_6003	NW_004518048.1	Scaffold3326	6003	TT	GG	1947045504
SNP_P4_181241_478	NW_004518049.1	Scaffold3328	478	CC	AA	1947045506
SNP_P4_181244_3966	NW_004518050.1	Scaffold3329	3966	TT	CC	1947045508
SNP_P4_181245_3998	NW_004518050.1	Scaffold3329	3998	TT	CC	1947045510
SNP_P4_181246_1176	NW_004518053.1	Scaffold3333	1176	GG	CC	1947045512
SNP_P4_181247_31	NW_004518055.1	Scaffold3336	31	CC	TT	1947045514
SNP_P4_181248_64	NW_004518055.1	Scaffold3336	64	GG	AA	1947045516
SNP_P4_181249_73	NW_004518055.1	Scaffold3336	73	TT	CC	1947045518
SNP_P4_181250_99	NW_004518055.1	Scaffold3336	99	GG	AA	1947045520
SNP_P4_181251_125	NW_004518055.1	Scaffold3336	125	GG	AA	1947045522
SNP_P4_181252_131	NW_004518055.1	Scaffold3336	131	TT	CC	1947045524
SNP_P4_181253_555	NW_004518055.1	Scaffold3336	555	AA	GG	1947045525
SNP_P4_181254_618	NW_004518055.1	Scaffold3336	618	CC	TT	1947045527
SNP_P4_181256_1870	NW_004518055.1	Scaffold3336	1870	AA	TT	1947045529
SNP_P4_181257_1993	NW_004518055.1	Scaffold3336	1993	CC	TT	1947045531

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_181260_11715	NW_004518055.1	Scaffold3336	11715	GG	CC	1947045535
SNP_P4_181261_15291	NW_004518055.1	Scaffold3336	15291	TT	AA	1947045537
SNP_P4_181262_35329	NW_004518055.1	Scaffold3336	35329	TT	CC	1947045539
SNP_P4_181264_49779	NW_004518055.1	Scaffold3336	49779	TT	GG	1947045541
SNP_P4_181265_63905	NW_004518055.1	Scaffold3336	63905	TT	AA	1947045543
SNP_P4_181266_63906	NW_004518055.1	Scaffold3336	63906	GG	AA	1947045545
SNP_P4_181267_63956	NW_004518055.1	Scaffold3336	63956	AA	TT	1947045546
SNP_P4_181268_915	NW_004518056.1	Scaffold3337	915	TT	AA	1947045548
SNP_P4_181269_2041	NW_004518056.1	Scaffold3337	2041	GG	AA	1947045550
SNP_P4_181271_21902	NW_004518056.1	Scaffold3337	21902	AA	TT	1947045552
SNP_P4_181272_21916	NW_004518056.1	Scaffold3337	21916	GG	AA	1947045554
SNP_P4_181273_22031	NW_004518056.1	Scaffold3337	22031	AA	CC	1947045556
SNP_P4_181274_22072	NW_004518056.1	Scaffold3337	22072	GG	CC	1947045557
SNP_P4_181275_25256	NW_004518056.1	Scaffold3337	25256	AA	TT	1947045559
SNP_P4_181276_25280	NW_004518056.1	Scaffold3337	25280	TT	CC	1947045561
SNP_P4_181277_1926	NW_004518059.1	Scaffold3341	1926	CC	AA	1947045563
SNP_P4_181278_1940	NW_004518059.1	Scaffold3341	1940	TT	AA	1947045565
SNP_P4_181279_2187	NW_004518059.1	Scaffold3341	2187	TT	GG	1947045567
SNP_P4_181280_463	NW_004518061.1	Scaffold3343	463	CC	AA	1947045568
SNP_P4_181281_467	NW_004518061.1	Scaffold3343	467	CC	GG	1947045570
SNP_P4_181282_1307	NW_004518062.1	Scaffold3345	1307	CC	GG	1947045572
SNP_P4_181283_284	NW_004518064.1	Scaffold3347	284	AA	GG	1947045574
SNP_P4_181284_529	NW_004518064.1	Scaffold3347	529	TT	GG	1947045576
SNP_P4_181286_2121	NW_004518064.1	Scaffold3347	2121	CC	TT	1947045578
SNP_P4_181287_2142	NW_004518064.1	Scaffold3347	2142	CC	TT	1947045580
SNP_P4_181288_2155	NW_004518064.1	Scaffold3347	2155	CC	GG	1947045582
SNP_P4_181289_2161	NW_004518064.1	Scaffold3347	2161	TT	CC	1947045584
SNP_P4_181290_2178	NW_004518064.1	Scaffold3347	2178	AA	TT	1947045586
SNP_P4_181291_2179	NW_004518064.1	Scaffold3347	2179	AA	TT	1947045587
SNP_P4_181292_2210	NW_004518064.1	Scaffold3347	2210	AA	TT	1947045589
SNP_P4_181293_2340	NW_004518064.1	Scaffold3347	2340	CC	TT	1947045591
SNP_P4_181294_2418	NW_004518064.1	Scaffold3347	2418	GG	AA	1947045593
SNP_P4_181295_2474	NW_004518064.1	Scaffold3347	2474	TT	CC	1947045595
SNP_P4_181296_2477	NW_004518064.1	Scaffold3347	2477	CC	GG	1947045597
SNP_P4_181297_2828	NW_004518064.1	Scaffold3347	2828	GG	CC	1947045599
SNP_P4_181298_2875	NW_004518064.1	Scaffold3347	2875	TT	GG	1947045601
SNP_P4_181299_3178	NW_004518064.1	Scaffold3347	3178	GG	CC	1947045603
SNP_P4_181300_823	NW_004518065.1	Scaffold3348	823	TT	GG	1947045605
SNP_P4_181301_858	NW_004518066.1	Scaffold3349	858	CC	TT	1947045607
SNP_P4_181302_4639	NW_004518069.1	Scaffold3353	4639	TT	CC	1947045609
SNP_P4_181303_5027	NW_004518069.1	Scaffold3353	5027	AA	CC	1947045611

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_181305_7195	NW_004518069.1	Scaffold3353	7195	TT	AA	1947045615
SNP_P4_181306_7218	NW_004518069.1	Scaffold3353	7218	TT	GG	1947045617
SNP_P4_181307_7276	NW_004518069.1	Scaffold3353	7276	TT	GG	1947045618
SNP_P4_181308_7307	NW_004518069.1	Scaffold3353	7307	AA	GG	1947045620
SNP_P4_181309_7313	NW_004518069.1	Scaffold3353	7313	CC	TT	1947045622
SNP_P4_181310_7337	NW_004518069.1	Scaffold3353	7337	GG	CC	1947045624
SNP_P4_181311_7403	NW_004518069.1	Scaffold3353	7403	TT	CC	1947045626
SNP_P4_181312_7667	NW_004518069.1	Scaffold3353	7667	CC	AA	1947045628
SNP_P4_181313_7686	NW_004518069.1	Scaffold3353	7686	AA	TT	1947045630
SNP_P4_181314_159	NW_004518070.1	Scaffold3354	159	TT	CC	1947045632
SNP_P4_181315_482	NW_004518070.1	Scaffold3354	482	CC	GG	1947045634
SNP_P4_181316_523	NW_004518070.1	Scaffold3354	523	GG	TT	1947045636
SNP_P4_181319_714	NW_004518070.1	Scaffold3354	714	CC	TT	1947045638
SNP_P4_181320_990	NW_004518070.1	Scaffold3354	990	GG	TT	1947045640
SNP_P4_181321_1031	NW_004518070.1	Scaffold3354	1031	CC	TT	1947045642
SNP_P4_181322_1200	NW_004518070.1	Scaffold3354	1200	CC	GG	1947045643
SNP_P4_181323_1337	NW_004518070.1	Scaffold3354	1337	GG	AA	1947045645
SNP_P4_181324_1376	NW_004518070.1	Scaffold3354	1376	AA	CC	1947045647
SNP_P4_181325_2197	NW_004518070.1	Scaffold3354	2197	TT	AA	1947045649
SNP_P4_181326_2372	NW_004518070.1	Scaffold3354	2372	AA	TT	1947045651
SNP_P4_181327_2373	NW_004518070.1	Scaffold3354	2373	AA	TT	1947045653
SNP_P4_181328_2374	NW_004518070.1	Scaffold3354	2374	TT	AA	1947045655
SNP_P4_181330_2709	NW_004518070.1	Scaffold3354	2709	AA	GG	1947045657
SNP_P4_181331_2966	NW_004518070.1	Scaffold3354	2966	AA	GG	1947045659
SNP_P4_181332_10560	NW_004518070.1	Scaffold3354	10560	AA	TT	1947045661
SNP_P4_181333_10604	NW_004518070.1	Scaffold3354	10604	TT	CC	1947045663
SNP_P4_181334_10899	NW_004518070.1	Scaffold3354	10899	AA	CC	1947045665
SNP_P4_181335_129	NW_004518073.1	Scaffold3357	129	AA	TT	1947045667
SNP_P4_181336_2059	NW_004518073.1	Scaffold3357	2059	AA	CC	1947045669
SNP_P4_181337_2068	NW_004518073.1	Scaffold3357	2068	TT	CC	1947045671
SNP_P4_181338_2382	NW_004518073.1	Scaffold3357	2382	GG	AA	1947045673
SNP_P4_181339_2400	NW_004518073.1	Scaffold3357	2400	GG	AA	1947045675
SNP_P4_181340_2401	NW_004518073.1	Scaffold3357	2401	CC	TT	1947045676
SNP_P4_181341_197	NW_004518074.1	Scaffold3359	197	AA	GG	1947045678
SNP_P4_181342_294	NW_004518074.1	Scaffold3359	294	AA	GG	1947045680
SNP_P4_181343_296	NW_004518074.1	Scaffold3359	296	CC	TT	1947045682
SNP_P4_181344_360	NW_004518074.1	Scaffold3359	360	AA	CC	1947045684
SNP_P4_181345_371	NW_004518074.1	Scaffold3359	371	AA	GG	1947045686
SNP_P4_181346_376	NW_004518074.1	Scaffold3359	376	CC	GG	1947045688
SNP_P4_181347_536	NW_004518074.1	Scaffold3359	536	CC	TT	1947045690
SNP_P4_181348_605	NW_004518074.1	Scaffold3359	605	GG	AA	1947045692

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_181350_990	NW_004518076.1	Scaffold3362	990	CC	GG	1947045696
SNP_P4_181351_1218	NW_004518076.1	Scaffold3362	1218	TT	GG	1947045698
SNP_P4_181352_1240	NW_004518076.1	Scaffold3362	1240	CC	TT	1947045700
SNP_P4_181353_1255	NW_004518076.1	Scaffold3362	1255	TT	CC	1947045702
SNP_P4_181354_1288	NW_004518076.1	Scaffold3362	1288	AA	GG	1947045704
SNP_P4_181355_1312	NW_004518076.1	Scaffold3362	1312	TT	GG	1947045705
SNP_P4_181356_2202	NW_004518076.1	Scaffold3362	2202	TT	GG	1947045707
SNP_P4_181357_2204	NW_004518076.1	Scaffold3362	2204	AA	TT	1947045709
SNP_P4_181358_2210	NW_004518076.1	Scaffold3362	2210	GG	TT	1947045711
SNP_P4_181359_2241	NW_004518076.1	Scaffold3362	2241	TT	AA	1947045713
SNP_P4_181360_26802	NW_004518076.1	Scaffold3362	26802	GG	TT	1947045715
SNP_P4_181361_59777	NW_004518076.1	Scaffold3362	59777	TT	GG	1947045717
SNP_P4_181362_59887	NW_004518076.1	Scaffold3362	59887	TT	CC	1947045719
SNP_P4_181363_60512	NW_004518076.1	Scaffold3362	60512	AA	GG	1947045720
SNP_P4_181365_71436	NW_004518076.1	Scaffold3362	71436	GG	AA	1947045722
SNP_P4_181366_92111	NW_004518076.1	Scaffold3362	92111	GG	CC	1947045724
SNP_P4_181367_109672	NW_004518076.1	Scaffold3362	109672	GG	AA	1947045726
SNP_P4_181368_109838	NW_004518076.1	Scaffold3362	109838	GG	AA	1947045728
SNP_P4_181369_110966	NW_004518076.1	Scaffold3362	110966	GG	TT	1947045730
SNP_P4_181370_111110	NW_004518076.1	Scaffold3362	111110	AA	GG	1947045732
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SNP_P4_181372_111821	NW_004518076.1	Scaffold3362	111821	TT	GG	1947045736
SNP_P4_181373_111865	NW_004518076.1	Scaffold3362	111865	GG	TT	1947045738
SNP_P4_181374_112022	NW_004518076.1	Scaffold3362	112022	TT	GG	1947045740
SNP_P4_181375_112074	NW_004518076.1	Scaffold3362	112074	AA	GG	1947045742
SNP_P4_181376_112177	NW_004518076.1	Scaffold3362	112177	CC	TT	1947045744
SNP_P4_181377_112217	NW_004518076.1	Scaffold3362	112217	TT	CC	1947045746
SNP_P4_181378_199	NW_004518078.1	Scaffold3364	199	TT	CC	1947045748
SNP_P4_181379_213	NW_004518078.1	Scaffold3364	213	GG	TT	1947045750
SNP_P4_181380_293	NW_004518078.1	Scaffold3364	293	CC	GG	1947045752
SNP_P4_181381_305	NW_004518078.1	Scaffold3364	305	AA	GG	1947045754
SNP_P4_181382_331	NW_004518078.1	Scaffold3364	331	CC	TT	1947045756
SNP_P4_181383_551	NW_004518078.1	Scaffold3364	551	CC	GG	1947045758
SNP_P4_181384_562	NW_004518078.1	Scaffold3364	562	GG	TT	1947045760
SNP_P4_181385_564	NW_004518078.1	Scaffold3364	564	AA	GG	1947045762
SNP_P4_181386_588	NW_004518078.1	Scaffold3364	588	TT	AA	1947045764
SNP_P4_181387_649	NW_004518078.1	Scaffold3364	649	AA	TT	1947045766
SNP_P4_181388_656	NW_004518078.1	Scaffold3364	656	CC	TT	1947045768
SNP_P4_181389_2598	NW_004518078.1	Scaffold3364	2598	TT	AA	1947045770
SNP_P4_181390_11523	NW_004518078.1	Scaffold3364	11523	AA	GG	1947045772
SNP_P4_181391_11882	NW_004518078.1	Scaffold3364	11882	TT	GG	1947045774

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_181392_17403	NW_004518078.1	Scaffold3364	17403	TT	GG	1947045776
SNP_P4_181393_33969	NW_004518078.1	Scaffold3364	33969	TT	AA	1947045778
SNP_P4_181394_34127	NW_004518078.1	Scaffold3364	34127	AA	TT	1947045780
SNP_P4_181396_35077	NW_004518078.1	Scaffold3364	35077	AA	GG	1947045782
SNP_P4_181397_36001	NW_004518078.1	Scaffold3364	36001	GG	AA	1947045784
SNP_P4_181398_36322	NW_004518078.1	Scaffold3364	36322	AA	GG	1947045786
SNP_P4_181399_36419	NW_004518078.1	Scaffold3364	36419	AA	CC	1947045788
SNP_P4_181400_37911	NW_004518078.1	Scaffold3364	37911	AA	GG	1947045790
SNP_P4_181401_38131	NW_004518078.1	Scaffold3364	38131	AA	GG	1947045792
SNP_P4_181402_38334	NW_004518078.1	Scaffold3364	38334	AA	GG	1947045794
SNP_P4_181403_42091	NW_004518078.1	Scaffold3364	42091	TT	GG	1947045797
SNP_P4_181404_42777	NW_004518078.1	Scaffold3364	42777	CC	GG	1947045799
SNP_P4_181405_42783	NW_004518078.1	Scaffold3364	42783	GG	AA	1947045801
SNP_P4_181406_43276	NW_004518078.1	Scaffold3364	43276	AA	TT	1947045803
SNP_P4_181408_45978	NW_004518078.1	Scaffold3364	45978	AA	CC	1947045805
SNP_P4_181409_46650	NW_004518078.1	Scaffold3364	46650	CC	GG	1947045807
SNP_P4_181410_46915	NW_004518078.1	Scaffold3364	46915	AA	GG	1947045809
SNP_P4_181411_46962	NW_004518078.1	Scaffold3364	46962	AA	TT	1947045811
SNP_P4_181412_47244	NW_004518078.1	Scaffold3364	47244	AA	TT	1947045813
SNP_P4_181413_47286	NW_004518078.1	Scaffold3364	47286	AA	GG	1947045815
SNP_P4_181414_47407	NW_004518078.1	Scaffold3364	47407	AA	TT	1947045817
SNP_P4_181415_47637	NW_004518078.1	Scaffold3364	47637	TT	CC	1947045819
SNP_P4_181416_47954	NW_004518078.1	Scaffold3364	47954	AA	CC	1947045821
SNP_P4_181417_48389	NW_004518078.1	Scaffold3364	48389	AA	GG	1947045823
SNP_P4_181418_48421	NW_004518078.1	Scaffold3364	48421	AA	GG	1947045825
SNP_P4_181419_49290	NW_004518078.1	Scaffold3364	49290	TT	CC	1947045827
SNP_P4_181420_49345	NW_004518078.1	Scaffold3364	49345	GG	CC	1947045830
SNP_P4_181421_49941	NW_004518078.1	Scaffold3364	49941	AA	TT	1947045832
SNP_P4_181422_50020	NW_004518078.1	Scaffold3364	50020	GG	AA	1947045834
SNP_P4_181423_51094	NW_004518078.1	Scaffold3364	51094	AA	GG	1947045837
SNP_P4_181424_51392	NW_004518078.1	Scaffold3364	51392	TT	AA	1947045839
SNP_P4_181425_51441	NW_004518078.1	Scaffold3364	51441	GG	AA	1947045841
SNP_P4_181426_1025	NW_004518081.1	Scaffold3369	1025	TT	AA	1947045844
SNP_P4_181427_16845	NW_004518081.1	Scaffold3369	16845	CC	AA	1947045846
SNP_P4_181428_16874	NW_004518081.1	Scaffold3369	16874	AA	GG	1947045848
SNP_P4_181429_17132	NW_004518081.1	Scaffold3369	17132	CC	TT	1947045850
SNP_P4_181431_17329	NW_004518081.1	Scaffold3369	17329	GG	AA	1947045853
SNP_P4_181432_17748	NW_004518081.1	Scaffold3369	17748	TT	CC	1947045855
SNP_P4_181433_18098	NW_004518081.1	Scaffold3369	18098	TT	CC	1947045857
SNP_P4_181434_18224	NW_004518081.1	Scaffold3369	18224	CC	TT	1947045859
SNP_P4_181436_20758	NW_004518081.1	Scaffold3369	20758	AA	GG	1947045861
SNP_P4_181437_20801	NW_004518081.1	Scaffold3369	20801	AA	GG	1947045863

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_181438_20904	NW_004518081.1	Scaffold3369	20904	CC	AA	1947045865
SNP_P4_181439_20912	NW_004518081.1	Scaffold3369	20912	CC	TT	1947045867
SNP_P4_181440_21020	NW_004518081.1	Scaffold3369	21020	CC	TT	1947045869
SNP_P4_181441_21168	NW_004518081.1	Scaffold3369	21168	TT	CC	1947045871
SNP_P4_181442_22179	NW_004518081.1	Scaffold3369	22179	TT	CC	1947045873
SNP_P4_181443_6344	NW_004518082.1	Scaffold3371	6344	CC	AA	1947045875
SNP_P4_181444_6387	NW_004518082.1	Scaffold3371	6387	CC	AA	1947045877
SNP_P4_181445_19833	NW_004518082.1	Scaffold3371	19833	AA	GG	1947045879
SNP_P4_181446_19892	NW_004518082.1	Scaffold3371	19892	CC	TT	1947045881
SNP_P4_181447_27310	NW_004518082.1	Scaffold3371	27310	CC	TT	1947045883
SNP_P4_181448_27313	NW_004518082.1	Scaffold3371	27313	TT	CC	1947045885
SNP_P4_181449_27830	NW_004518082.1	Scaffold3371	27830	AA	CC	1947045887
SNP_P4_181450_27832	NW_004518082.1	Scaffold3371	27832	TT	CC	1947045889
SNP_P4_181451_27845	NW_004518082.1	Scaffold3371	27845	CC	GG	1947045891
SNP_P4_181452_27848	NW_004518082.1	Scaffold3371	27848	TT	CC	1947045894
SNP_P4_181453_27885	NW_004518082.1	Scaffold3371	27885	GG	CC	1947045896
SNP_P4_181454_27906	NW_004518082.1	Scaffold3371	27906	AA	CC	1947045898
SNP_P4_181455_27925	NW_004518082.1	Scaffold3371	27925	AA	GG	1947045900
SNP_P4_181456_28173	NW_004518082.1	Scaffold3371	28173	CC	TT	1947045902
SNP_P4_181457_28181	NW_004518082.1	Scaffold3371	28181	CC	GG	1947045904
SNP_P4_181458_28184	NW_004518082.1	Scaffold3371	28184	TT	CC	1947045906
SNP_P4_181459_28230	NW_004518082.1	Scaffold3371	28230	CC	TT	1947045908
SNP_P4_181460_33243	NW_004518082.1	Scaffold3371	33243	AA	CC	1947045910
SNP_P4_181461_33248	NW_004518082.1	Scaffold3371	33248	AA	GG	1947045912
SNP_P4_181462_33249	NW_004518082.1	Scaffold3371	33249	TT	AA	1947045915
SNP_P4_181463_33641	NW_004518082.1	Scaffold3371	33641	AA	GG	1947045917
SNP_P4_181464_33701	NW_004518082.1	Scaffold3371	33701	AA	CC	1947045919
SNP_P4_181465_33922	NW_004518082.1	Scaffold3371	33922	TT	CC	1947045922
SNP_P4_181466_33926	NW_004518082.1	Scaffold3371	33926	AA	GG	1947045924
SNP_P4_181467_33945	NW_004518082.1	Scaffold3371	33945	CC	AA	1947045926
SNP_P4_181468_34156	NW_004518082.1	Scaffold3371	34156	GG	AA	1947045928
SNP_P4_181469_34167	NW_004518082.1	Scaffold3371	34167	TT	AA	1947045930
SNP_P4_181470_34205	NW_004518082.1	Scaffold3371	34205	TT	CC	1947045932
SNP_P4_181471_34207	NW_004518082.1	Scaffold3371	34207	TT	CC	1947045934
SNP_P4_181472_35432	NW_004518082.1	Scaffold3371	35432	AA	GG	1947045936
SNP_P4_181473_35434	NW_004518082.1	Scaffold3371	35434	AA	CC	1947045938
SNP_P4_181474_35447	NW_004518082.1	Scaffold3371	35447	GG	CC	1947045940
SNP_P4_181475_651	NW_004518084.1	Scaffold3374	651	AA	CC	1947045943
SNP_P4_181476_600	NW_004518085.1	Scaffold3377	600	GG	TT	1947045945
SNP_P4_181477_1914	NW_004518088.1	Scaffold3380	1914	TT	CC	1947045947
SNP_P4_181478_1945	NW_004518088.1	Scaffold3380	1945	AA	GG	1947045949
SNP_P4_181479_2026	NW_004518088.1	Scaffold3380	2026	AA	GG	1947045951

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_181480_2171	NW_004518088.1	Scaffold3380	2171	AA	GG	1947045953
SNP_P4_181481_2392	NW_004518088.1	Scaffold3380	2392	AA	GG	1947045955
SNP_P4_181482_2426	NW_004518088.1	Scaffold3380	2426	TT	CC	1947045957
SNP_P4_181483_2509	NW_004518088.1	Scaffold3380	2509	AA	GG	1947045959
SNP_P4_181484_2516	NW_004518088.1	Scaffold3380	2516	AA	CC	1947045961
SNP_P4_181485_2532	NW_004518088.1	Scaffold3380	2532	GG	AA	1947045963
SNP_P4_181486_3904	NW_004518088.1	Scaffold3380	3904	AA	GG	1947045966
SNP_P4_181487_3920	NW_004518088.1	Scaffold3380	3920	TT	CC	1947045968
SNP_P4_181488_3933	NW_004518088.1	Scaffold3380	3933	AA	GG	1947045970
SNP_P4_181489_3952	NW_004518088.1	Scaffold3380	3952	AA	GG	1947045972
SNP_P4_181490_4005	NW_004518088.1	Scaffold3380	4005	CC	TT	1947045974
SNP_P4_181491_4123	NW_004518088.1	Scaffold3380	4123	GG	AA	1947045976
SNP_P4_181492_4139	NW_004518088.1	Scaffold3380	4139	CC	TT	1947045978
SNP_P4_181493_4226	NW_004518088.1	Scaffold3380	4226	GG	TT	1947045980
SNP_P4_181494_4330	NW_004518088.1	Scaffold3380	4330	CC	TT	1947045983
SNP_P4_181495_4334	NW_004518088.1	Scaffold3380	4334	AA	GG	1947045985
SNP_P4_181496_4375	NW_004518088.1	Scaffold3380	4375	CC	TT	1947045987
SNP_P4_181497_4514	NW_004518088.1	Scaffold3380	4514	TT	GG	1947045989
SNP_P4_181498_4901	NW_004518088.1	Scaffold3380	4901	GG	TT	1947045991
SNP_P4_181499_5201	NW_004518088.1	Scaffold3380	5201	TT	AA	1947045993
SNP_P4_181500_5250	NW_004518088.1	Scaffold3380	5250	TT	GG	1947045995
SNP_P4_181501_299	NW_004518089.1	Scaffold3381	299	TT	AA	1947045997
SNP_P4_181502_649	NW_004518089.1	Scaffold3381	649	CC	AA	1947045999
SNP_P4_181503_785	NW_004518089.1	Scaffold3381	785	TT	CC	1947046001
SNP_P4_181504_1022	NW_004518089.1	Scaffold3381	1022	AA	GG	1947046003
SNP_P4_181505_1025	NW_004518089.1	Scaffold3381	1025	TT	AA	1947046005
SNP_P4_181506_1086	NW_004518089.1	Scaffold3381	1086	AA	GG	1947046007
SNP_P4_181507_1093	NW_004518089.1	Scaffold3381	1093	TT	CC	1947046009
SNP_P4_181508_1114	NW_004518089.1	Scaffold3381	1114	CC	TT	1947046010
SNP_P4_181509_1121	NW_004518089.1	Scaffold3381	1121	TT	GG	1947046011
SNP_P4_181510_1125	NW_004518089.1	Scaffold3381	1125	AA	CC	1947046012
SNP_P4_181511_1181	NW_004518089.1	Scaffold3381	1181	TT	CC	1947046013
SNP_P4_181512_1429	NW_004518089.1	Scaffold3381	1429	AA	CC	1947046015
SNP_P4_181513_1544	NW_004518089.1	Scaffold3381	1544	CC	GG	1947046017
SNP_P4_181514_1576	NW_004518089.1	Scaffold3381	1576	TT	AA	1947046019
SNP_P4_181515_1662	NW_004518089.1	Scaffold3381	1662	CC	AA	1947046021
SNP_P4_181516_1663	NW_004518089.1	Scaffold3381	1663	GG	AA	1947046023
SNP_P4_181517_1667	NW_004518089.1	Scaffold3381	1667	AA	TT	1947046025
SNP_P4_181518_1669	NW_004518089.1	Scaffold3381	1669	GG	TT	1947046027
SNP_P4_181519_1684	NW_004518089.1	Scaffold3381	1684	CC	TT	1947046029
SNP_P4_181520_1685	NW_004518089.1	Scaffold3381	1685	CC	TT	1947046031
SNP_P4_181521_2956	NW_004518091.1	Scaffold3383	2956	AA	CC	1947046033

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_181523_3200	NW_004518092.1	Scaffold3384	3200	CC	AA	1947046037
SNP_P4_181524_3242	NW_004518092.1	Scaffold3384	3242	AA	GG	1947046039
SNP_P4_181525_1182	NW_004518093.1	Scaffold3385	1182	TT	AA	1947046041
SNP_P4_181526_1184	NW_004518093.1	Scaffold3385	1184	AA	GG	1947046043
SNP_P4_181527_2990	NW_004518093.1	Scaffold3385	2990	GG	CC	1947046045
SNP_P4_181528_2996	NW_004518093.1	Scaffold3385	2996	TT	CC	1947046047
SNP_P4_181529_4489	NW_004518093.1	Scaffold3385	4489	GG	AA	1947046049
SNP_P4_181530_8412	NW_004518093.1	Scaffold3385	8412	TT	CC	1947046051
SNP_P4_181531_8420	NW_004518093.1	Scaffold3385	8420	TT	GG	1947046053
SNP_P4_181532_8758	NW_004518093.1	Scaffold3385	8758	CC	TT	1947046055
SNP_P4_181533_6513	NW_004518098.1	Scaffold3392	6513	GG	TT	1947046057
SNP_P4_181534_1635	NW_004518102.1	Scaffold3396	1635	GG	AA	1947046059
SNP_P4_181536_4652	NW_004518102.1	Scaffold3396	4652	GG	TT	1947046061
SNP_P4_181537_12893	NW_004518102.1	Scaffold3396	12893	AA	TT	1947046063
SNP_P4_181538_14452	NW_004518102.1	Scaffold3396	14452	AA	TT	1947046065
SNP_P4_181539_14453	NW_004518102.1	Scaffold3396	14453	TT	GG	1947046067
SNP_P4_181540_14488	NW_004518102.1	Scaffold3396	14488	AA	GG	1947046069
SNP_P4_181541_15181	NW_004518102.1	Scaffold3396	15181	GG	TT	1947046071
SNP_P4_181542_15198	NW_004518102.1	Scaffold3396	15198	TT	CC	1947046073
SNP_P4_181543_15203	NW_004518102.1	Scaffold3396	15203	CC	TT	1947046075
SNP_P4_181544_15535	NW_004518102.1	Scaffold3396	15535	AA	CC	1947046077
SNP_P4_181545_15561	NW_004518102.1	Scaffold3396	15561	GG	TT	1947046079
SNP_P4_181546_15913	NW_004518102.1	Scaffold3396	15913	CC	TT	1947046081
SNP_P4_181547_15922	NW_004518102.1	Scaffold3396	15922	TT	AA	1947046083
SNP_P4_181548_20399	NW_004518102.1	Scaffold3396	20399	AA	TT	1947046085
SNP_P4_181549_21464	NW_004518102.1	Scaffold3396	21464	TT	CC	1947046087
SNP_P4_181550_21934	NW_004518102.1	Scaffold3396	21934	CC	TT	1947046089
SNP_P4_181551_831	NW_004518103.1	Scaffold3397	831	TT	GG	1947046091
SNP_P4_181553_18032	NW_004518103.1	Scaffold3397	18032	TT	CC	1947046093
SNP_P4_181554_18163	NW_004518103.1	Scaffold3397	18163	TT	CC	1947046095
SNP_P4_181555_18170	NW_004518103.1	Scaffold3397	18170	AA	GG	1947046097
SNP_P4_181556_18566	NW_004518103.1	Scaffold3397	18566	GG	AA	1947046099
SNP_P4_181558_31333	NW_004518103.1	Scaffold3397	31333	GG	CC	1947046101
SNP_P4_181559_36386	NW_004518103.1	Scaffold3397	36386	AA	CC	1947046103
SNP_P4_181560_49272	NW_004518103.1	Scaffold3397	49272	GG	AA	1947046105
SNP_P4_181561_49324	NW_004518103.1	Scaffold3397	49324	CC	TT	1947046107
SNP_P4_181562_50206	NW_004518103.1	Scaffold3397	50206	CC	TT	1947046109
SNP_P4_181564_56546	NW_004518103.1	Scaffold3397	56546	TT	CC	1947046111
SNP_P4_181565_62768	NW_004518103.1	Scaffold3397	62768	GG	AA	1947046114
SNP_P4_181566_64748	NW_004518103.1	Scaffold3397	64748	GG	AA	1947046116
SNP_P4_181567_64786	NW_004518103.1	Scaffold3397	64786	CC	TT	1947046118

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_181571_72800	NW_004518103.1	Scaffold3397	72800	TT	CC	1947046122
SNP_P4_181572_75980	NW_004518103.1	Scaffold3397	75980	GG	AA	1947046124
SNP_P4_181573_79481	NW_004518103.1	Scaffold3397	79481	TT	CC	1947046126
SNP_P4_181574_80199	NW_004518103.1	Scaffold3397	80199	TT	CC	1947046128
SNP_P4_181575_81425	NW_004518103.1	Scaffold3397	81425	AA	GG	1947046130
SNP_P4_181576_87146	NW_004518103.1	Scaffold3397	87146	GG	AA	1947046132
SNP_P4_181577_88189	NW_004518103.1	Scaffold3397	88189	CC	GG	1947046134
SNP_P4_181579_88962	NW_004518103.1	Scaffold3397	88962	AA	GG	1947046136
SNP_P4_181580_91075	NW_004518103.1	Scaffold3397	91075	CC	TT	1947046138
SNP_P4_181581_94759	NW_004518103.1	Scaffold3397	94759	TT	CC	1947046140
SNP_P4_181582_96669	NW_004518103.1	Scaffold3397	96669	AA	GG	1947046142
SNP_P4_181583_99041	NW_004518103.1	Scaffold3397	99041	CC	GG	1947046144
SNP_P4_181584_105572	NW_004518103.1	Scaffold3397	105572	TT	GG	1947046146
SNP_P4_181585_105707	NW_004518103.1	Scaffold3397	105707	TT	CC	1947046148
SNP_P4_181586_107496	NW_004518103.1	Scaffold3397	107496	TT	CC	1947046150
SNP_P4_181587_107768	NW_004518103.1	Scaffold3397	107768	TT	GG	1947046152
SNP_P4_181588_107780	NW_004518103.1	Scaffold3397	107780	GG	TT	1947046154
SNP_P4_181589_108158	NW_004518103.1	Scaffold3397	108158	GG	AA	1947046156
SNP_P4_181590_108166	NW_004518103.1	Scaffold3397	108166	CC	AA	1947046158
SNP_P4_181591_108564	NW_004518103.1	Scaffold3397	108564	AA	GG	1947046160
SNP_P4_181592_951	NW_004518105.1	Scaffold3403	951	TT	AA	1947046162
SNP_P4_181593_1294	NW_004518105.1	Scaffold3403	1294	CC	AA	1947046164
SNP_P4_181594_1078	NW_004518106.1	Scaffold3404	1078	CC	GG	1947046166
SNP_P4_181595_1087	NW_004518106.1	Scaffold3404	1087	TT	AA	1947046168
SNP_P4_181596_1099	NW_004518106.1	Scaffold3404	1099	CC	TT	1947046170
SNP_P4_181597_1236	NW_004518106.1	Scaffold3404	1236	TT	CC	1947046172
SNP_P4_181598_1239	NW_004518106.1	Scaffold3404	1239	TT	GG	1947046174
SNP_P4_181599_1279	NW_004518106.1	Scaffold3404	1279	AA	GG	1947046176
SNP_P4_181600_1297	NW_004518106.1	Scaffold3404	1297	GG	AA	1947046178
SNP_P4_181601_1705	NW_004518106.1	Scaffold3404	1705	TT	CC	1947046180
SNP_P4_181602_1869	NW_004518106.1	Scaffold3404	1869	GG	TT	1947046182
SNP_P4_181603_1893	NW_004518106.1	Scaffold3404	1893	GG	AA	1947046184
SNP_P4_181604_1933	NW_004518106.1	Scaffold3404	1933	TT	GG	1947046186
SNP_P4_181605_2035	NW_004518106.1	Scaffold3404	2035	CC	AA	1947046188
SNP_P4_181607_2064	NW_004518106.1	Scaffold3404	2064	TT	CC	1947046190
SNP_P4_181608_2083	NW_004518106.1	Scaffold3404	2083	CC	TT	1947046192
SNP_P4_181609_2136	NW_004518106.1	Scaffold3404	2136	CC	GG	1947046194
SNP_P4_181610_2160	NW_004518106.1	Scaffold3404	2160	GG	TT	1947046197
SNP_P4_181611_2300	NW_004518106.1	Scaffold3404	2300	TT	AA	1947046199
SNP_P4_181612_1145	NW_004518108.1	Scaffold3406	1145	AA	GG	1947046201
SNP_P4_181613_1200	NW_004518108.1	Scaffold3406	1200	GG	TT	1947046203

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_181615_1274	NW_004518108.1	Scaffold3406	1274	AA	TT	1947046205
SNP_P4_181616_1320	NW_004518108.1	Scaffold3406	1320	AA	TT	1947046207
SNP_P4_181617_1359	NW_004518108.1	Scaffold3406	1359	AA	TT	1947046209
SNP_P4_181618_1606	NW_004518108.1	Scaffold3406	1606	AA	TT	1947046211
SNP_P4_181619_1852	NW_004518108.1	Scaffold3406	1852	TT	AA	1947046213
SNP_P4_181623_479	NW_004518109.1	Scaffold3407	479	CC	TT	1947046215
SNP_P4_181624_545	NW_004518112.1	Scaffold3411	545	TT	AA	1947046217
SNP_P4_181625_2638	NW_004518112.1	Scaffold3411	2638	AA	CC	1947046219
SNP_P4_181626_2648	NW_004518112.1	Scaffold3411	2648	AA	TT	1947046221
SNP_P4_181627_2722	NW_004518112.1	Scaffold3411	2722	GG	AA	1947046223
SNP_P4_181628_6218	NW_004518112.1	Scaffold3411	6218	TT	AA	1947046225
SNP_P4_181629_6229	NW_004518112.1	Scaffold3411	6229	GG	AA	1947046227
SNP_P4_181630_6241	NW_004518112.1	Scaffold3411	6241	AA	CC	1947046229
SNP_P4_181631_6255	NW_004518112.1	Scaffold3411	6255	AA	TT	1947046231
SNP_P4_181632_6274	NW_004518112.1	Scaffold3411	6274	AA	TT	1947046233
SNP_P4_181633_646	NW_004518113.1	Scaffold3412	646	AA	GG	1947046235
SNP_P4_181634_654	NW_004518113.1	Scaffold3412	654	AA	CC	1947046237
SNP_P4_181635_689	NW_004518113.1	Scaffold3412	689	AA	TT	1947046239
SNP_P4_181636_697	NW_004518113.1	Scaffold3412	697	CC	AA	1947046241
SNP_P4_181637_698	NW_004518113.1	Scaffold3412	698	AA	TT	1947046243
SNP_P4_181638_699	NW_004518113.1	Scaffold3412	699	AA	GG	1947046245
SNP_P4_181639_707	NW_004518113.1	Scaffold3412	707	TT	CC	1947046247
SNP_P4_181640_934	NW_004518113.1	Scaffold3412	934	CC	AA	1947046249
SNP_P4_181641_970	NW_004518113.1	Scaffold3412	970	GG	AA	1947046251
SNP_P4_181642_973	NW_004518113.1	Scaffold3412	973	CC	AA	1947046253
SNP_P4_181643_991	NW_004518113.1	Scaffold3412	991	GG	TT	1947046255
SNP_P4_181644_5679	NW_004518115.1	Scaffold3415	5679	GG	CC	1947046257
SNP_P4_181645_56174	NW_004518119.1	Scaffold3422	56174	TT	GG	1947046259
SNP_P4_181646_56184	NW_004518119.1	Scaffold3422	56184	TT	GG	1947046261
SNP_P4_181647_56189	NW_004518119.1	Scaffold3422	56189	CC	GG	1947046263
SNP_P4_181648_56212	NW_004518119.1	Scaffold3422	56212	TT	CC	1947046265
SNP_P4_181650_56292	NW_004518119.1	Scaffold3422	56292	GG	AA	1947046267
SNP_P4_181652_82	NW_004518120.1	Scaffold3423	82	TT	GG	1947046269
SNP_P4_181653_196	NW_004518120.1	Scaffold3423	196	GG	TT	1947046271
SNP_P4_181654_342	NW_004518120.1	Scaffold3423	342	AA	TT	1947046273
SNP_P4_181655_343	NW_004518120.1	Scaffold3423	343	CC	TT	1947046275
SNP_P4_181656_378	NW_004518120.1	Scaffold3423	378	AA	CC	1947046277
SNP_P4_181657_399	NW_004518120.1	Scaffold3423	399	TT	CC	1947046279
SNP_P4_181658_475	NW_004518120.1	Scaffold3423	475	CC	TT	1947046281
SNP_P4_181659_479	NW_004518120.1	Scaffold3423	479	GG	CC	1947046283
SNP_P4_181660_482	NW_004518120.1	Scaffold3423	482	AA	TT	1947046285
SNP_P4_181661_493	NW_004518120.1	Scaffold3423	493	CC	TT	1947046287

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_181662_503	NW_004518120.1	Scaffold3423	503	CC	GG	1947046289
SNP_P4_181663_523	NW_004518120.1	Scaffold3423	523	GG	AA	1947046291
SNP_P4_181664_530	NW_004518120.1	Scaffold3423	530	AA	GG	1947046293
SNP_P4_181665_561	NW_004518120.1	Scaffold3423	561	TT	CC	1947046295
SNP_P4_181666_563	NW_004518120.1	Scaffold3423	563	TT	AA	1947046297
SNP_P4_181667_571	NW_004518120.1	Scaffold3423	571	TT	AA	1947046299
SNP_P4_181668_911	NW_004518120.1	Scaffold3423	911	GG	AA	1947046301
SNP_P4_181669_1164	NW_004518120.1	Scaffold3423	1164	TT	AA	1947046303
SNP_P4_181670_267	NW_004518121.1	Scaffold3424	267	TT	CC	1947046305
SNP_P4_181671_336	NW_004518121.1	Scaffold3424	336	TT	CC	1947046307
SNP_P4_181672_558	NW_004518121.1	Scaffold3424	558	AA	TT	1947046309
SNP_P4_181673_760	NW_004518121.1	Scaffold3424	760	TT	GG	1947046311
SNP_P4_181674_199	NW_004518122.1	Scaffold3426	199	AA	GG	1947046313
SNP_P4_181675_372	NW_004518122.1	Scaffold3426	372	CC	AA	1947046315
SNP_P4_181676_405	NW_004518122.1	Scaffold3426	405	AA	GG	1947046317
SNP_P4_181677_412	NW_004518122.1	Scaffold3426	412	AA	GG	1947046319
SNP_P4_181678_422	NW_004518122.1	Scaffold3426	422	AA	TT	1947046321
SNP_P4_181679_424	NW_004518122.1	Scaffold3426	424	AA	TT	1947046324
SNP_P4_181681_10356	NW_004518125.1	Scaffold3429	10356	GG	CC	1947046326
SNP_P4_181682_11080	NW_004518125.1	Scaffold3429	11080	AA	GG	1947046328
SNP_P4_181683_11224	NW_004518125.1	Scaffold3429	11224	AA	GG	1947046330
SNP_P4_181684_4064	NW_004518127.1	Scaffold3432	4064	AA	CC	1947046332
SNP_P4_181685_23889	NW_004518127.1	Scaffold3432	23889	CC	AA	1947046334
SNP_P4_181687_24352	NW_004518127.1	Scaffold3432	24352	AA	TT	1947046336
SNP_P4_181688_24365	NW_004518127.1	Scaffold3432	24365	CC	TT	1947046338
SNP_P4_181689_24539	NW_004518127.1	Scaffold3432	24539	GG	AA	1947046340
SNP_P4_181690_25064	NW_004518127.1	Scaffold3432	25064	TT	CC	1947046342
SNP_P4_181691_25071	NW_004518127.1	Scaffold3432	25071	TT	CC	1947046344
SNP_P4_181692_25076	NW_004518127.1	Scaffold3432	25076	GG	TT	1947046346
SNP_P4_181693_25665	NW_004518127.1	Scaffold3432	25665	CC	TT	1947046348
SNP_P4_181694_26441	NW_004518127.1	Scaffold3432	26441	AA	GG	1947046350
SNP_P4_181695_29732	NW_004518127.1	Scaffold3432	29732	GG	AA	1947046352
SNP_P4_181696_29749	NW_004518127.1	Scaffold3432	29749	TT	CC	1947046354
SNP_P4_181697_29767	NW_004518127.1	Scaffold3432	29767	TT	CC	1947046356
SNP_P4_181698_29782	NW_004518127.1	Scaffold3432	29782	AA	CC	1947046358
SNP_P4_181699_29790	NW_004518127.1	Scaffold3432	29790	TT	AA	1947046360
SNP_P4_181700_29889	NW_004518127.1	Scaffold3432	29889	GG	AA	1947046362
SNP_P4_181701_30052	NW_004518127.1	Scaffold3432	30052	GG	AA	1947046364
SNP_P4_181702_30066	NW_004518127.1	Scaffold3432	30066	CC	GG	1947046366
SNP_P4_181703_30091	NW_004518127.1	Scaffold3432	30091	GG	AA	1947046368
SNP_P4_181704_30135	NW_004518127.1	Scaffold3432	30135	AA	GG	1947046370
SNP_P4_181705_30143	NW_004518127.1	Scaffold3432	30143	TT	CC	1947046372

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_181706_30185	NW_004518127.1	Scaffold3432	30185	GG	TT	1947046374
SNP_P4_181707_35384	NW_004518127.1	Scaffold3432	35384	CC	AA	1947046376
SNP_P4_181708_35410	NW_004518127.1	Scaffold3432	35410	CC	TT	1947046378
SNP_P4_181709_35427	NW_004518127.1	Scaffold3432	35427	CC	TT	1947046380
SNP_P4_181710_35435	NW_004518127.1	Scaffold3432	35435	CC	TT	1947046382
SNP_P4_181712_35508	NW_004518127.1	Scaffold3432	35508	TT	CC	1947046384
SNP_P4_181713_35515	NW_004518127.1	Scaffold3432	35515	TT	CC	1947046386
SNP_P4_181714_35684	NW_004518127.1	Scaffold3432	35684	AA	TT	1947046388
SNP_P4_181715_35708	NW_004518127.1	Scaffold3432	35708	CC	TT	1947046390
SNP_P4_181716_35714	NW_004518127.1	Scaffold3432	35714	CC	TT	1947046392
SNP_P4_181717_35716	NW_004518127.1	Scaffold3432	35716	TT	AA	1947046394
SNP_P4_181720_61284	NW_004518127.1	Scaffold3432	61284	AA	GG	1947046395
SNP_P4_181721_61285	NW_004518127.1	Scaffold3432	61285	TT	GG	1947046396
SNP_P4_181722_67675	NW_004518127.1	Scaffold3432	67675	CC	AA	1947046397
SNP_P4_181723_68054	NW_004518127.1	Scaffold3432	68054	CC	TT	1947046398
SNP_P4_181724_68405	NW_004518127.1	Scaffold3432	68405	AA	CC	1947046399
SNP_P4_181725_79273	NW_004518127.1	Scaffold3432	79273	GG	TT	1947046400
SNP_P4_181726_79312	NW_004518127.1	Scaffold3432	79312	CC	TT	1947046401
SNP_P4_181727_81703	NW_004518127.1	Scaffold3432	81703	TT	CC	1947046402
SNP_P4_181728_81798	NW_004518127.1	Scaffold3432	81798	CC	TT	1947046403
SNP_P4_181729_85452	NW_004518127.1	Scaffold3432	85452	CC	TT	1947046404
SNP_P4_181730_85464	NW_004518127.1	Scaffold3432	85464	CC	TT	1947046405
SNP_P4_181731_95978	NW_004518127.1	Scaffold3432	95978	CC	TT	1947046406
SNP_P4_181732_99031	NW_004518127.1	Scaffold3432	99031	AA	CC	1947046407
SNP_P4_181733_119203	NW_004518127.1	Scaffold3432	119203	TT	CC	1947046408
SNP_P4_181734_7514	NW_004518129.1	Scaffold3434	7514	AA	TT	1947046409
SNP_P4_181735_7524	NW_004518129.1	Scaffold3434	7524	TT	AA	1947046410
SNP_P4_181737_7685	NW_004518129.1	Scaffold3434	7685	TT	AA	1947046411
SNP_P4_181738_7686	NW_004518129.1	Scaffold3434	7686	AA	TT	1947046412
SNP_P4_181740_10594	NW_004518129.1	Scaffold3434	10594	CC	AA	1947046413
SNP_P4_181741_10976	NW_004518129.1	Scaffold3434	10976	TT	CC	1947046414
SNP_P4_181742_11005	NW_004518129.1	Scaffold3434	11005	AA	GG	1947046415
SNP_P4_181743_11868	NW_004518129.1	Scaffold3434	11868	GG	TT	1947046416
SNP_P4_181744_11920	NW_004518129.1	Scaffold3434	11920	CC	TT	1947046417
SNP_P4_181745_12021	NW_004518129.1	Scaffold3434	12021	CC	AA	1947046418
SNP_P4_181746_1426	NW_004518130.1	Scaffold3435	1426	CC	TT	1947046419
SNP_P4_181747_5733	NW_004518130.1	Scaffold3435	5733	AA	TT	1947046420
SNP_P4_181748_10605	NW_004518130.1	Scaffold3435	10605	AA	GG	1947046421
SNP_P4_181749_10802	NW_004518130.1	Scaffold3435	10802	CC	TT	1947046422
SNP_P4_181750_10817	NW_004518130.1	Scaffold3435	10817	AA	GG	1947046423
SNP_P4_181752_16157	NW_004518130.1	Scaffold3435	16157	GG	TT	1947046424
SNP_P4_181753_16168	NW_004518130.1	Scaffold3435	16168	CC	AA	1947046425

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_181755_16205	NW_004518130.1	Scaffold3435	16205	AA	GG	1947046427
SNP_P4_181756_16209	NW_004518130.1	Scaffold3435	16209	AA	GG	1947046428
SNP_P4_181757_16239	NW_004518130.1	Scaffold3435	16239	AA	CC	1947046429
SNP_P4_181758_16262	NW_004518130.1	Scaffold3435	16262	AA	GG	1947046430
SNP_P4_181759_30753	NW_004518130.1	Scaffold3435	30753	GG	AA	1947046431
SNP_P4_181760_30821	NW_004518130.1	Scaffold3435	30821	AA	GG	1947046432
SNP_P4_181761_31124	NW_004518130.1	Scaffold3435	31124	TT	AA	1947046433
SNP_P4_181762_33257	NW_004518130.1	Scaffold3435	33257	AA	GG	1947046434
SNP_P4_181763_33320	NW_004518130.1	Scaffold3435	33320	CC	TT	1947046435
SNP_P4_181764_33335	NW_004518130.1	Scaffold3435	33335	CC	TT	1947046436
SNP_P4_181765_33345	NW_004518130.1	Scaffold3435	33345	CC	TT	1947046437
SNP_P4_181766_1645	NW_004518131.1	Scaffold3436	1645	CC	TT	1947046438
SNP_P4_181767_7378	NW_004518131.1	Scaffold3436	7378	GG	TT	1947046439
SNP_P4_181768_8881	NW_004518131.1	Scaffold3436	8881	TT	AA	1947046440
SNP_P4_181771_9569	NW_004518131.1	Scaffold3436	9569	TT	GG	1947046441
SNP_P4_181772_9668	NW_004518131.1	Scaffold3436	9668	AA	TT	1947046442
SNP_P4_181774_10284	NW_004518131.1	Scaffold3436	10284	TT	AA	1947046443
SNP_P4_181775_10834	NW_004518131.1	Scaffold3436	10834	AA	CC	1947046444
SNP_P4_181776_10914	NW_004518131.1	Scaffold3436	10914	GG	TT	1947046445
SNP_P4_181777_12162	NW_004518131.1	Scaffold3436	12162	GG	CC	1947046446
SNP_P4_181778_13038	NW_004518131.1	Scaffold3436	13038	CC	TT	1947046447
SNP_P4_181779_13048	NW_004518131.1	Scaffold3436	13048	GG	AA	1947046448
SNP_P4_181780_13094	NW_004518131.1	Scaffold3436	13094	CC	TT	1947046449
SNP_P4_181781_13098	NW_004518131.1	Scaffold3436	13098	GG	AA	1947046450
SNP_P4_181782_13114	NW_004518131.1	Scaffold3436	13114	TT	CC	1947046451
SNP_P4_181783_13182	NW_004518131.1	Scaffold3436	13182	GG	AA	1947046452
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SNP_P4_181785_13263	NW_004518131.1	Scaffold3436	13263	CC	AA	1947046454
SNP_P4_181786_13296	NW_004518131.1	Scaffold3436	13296	AA	GG	1947046455
SNP_P4_181787_13523	NW_004518131.1	Scaffold3436	13523	GG	CC	1947046456
SNP_P4_181788_13563	NW_004518131.1	Scaffold3436	13563	TT	AA	1947046457
SNP_P4_181790_13852	NW_004518131.1	Scaffold3436	13852	CC	TT	1947046458
SNP_P4_181791_1629	NW_004518132.1	Scaffold3437	1629	AA	TT	1947046459
SNP_P4_181792_1670	NW_004518132.1	Scaffold3437	1670	AA	TT	1947046460
SNP_P4_181793_2947	NW_004518133.1	Scaffold3438	2947	AA	TT	1947046461
SNP_P4_181794_3351	NW_004518133.1	Scaffold3438	3351	AA	CC	1947046462
SNP_P4_181795_3369	NW_004518133.1	Scaffold3438	3369	AA	TT	1947046463
SNP_P4_181796_3372	NW_004518133.1	Scaffold3438	3372	GG	AA	1947046464
SNP_P4_181797_3373	NW_004518133.1	Scaffold3438	3373	GG	AA	1947046465
SNP_P4_181798_3381	NW_004518133.1	Scaffold3438	3381	AA	GG	1947046466
SNP_P4_181799_3432	NW_004518133.1	Scaffold3438	3432	TT	AA	1947046467

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_181801_9316	NW_004518133.1	Scaffold3438	9316	TT	CC	1947046469
SNP_P4_181802_9317	NW_004518133.1	Scaffold3438	9317	GG	AA	1947046470
SNP_P4_181803_9322	NW_004518133.1	Scaffold3438	9322	TT	CC	1947046471
SNP_P4_181804_9330	NW_004518133.1	Scaffold3438	9330	AA	GG	1947046472
SNP_P4_181805_9724	NW_004518133.1	Scaffold3438	9724	AA	GG	1947046473
SNP_P4_181806_9738	NW_004518133.1	Scaffold3438	9738	GG	AA	1947046474
SNP_P4_181807_11298	NW_004518133.1	Scaffold3438	11298	AA	GG	1947046475
SNP_P4_181808_11661	NW_004518133.1	Scaffold3438	11661	TT	AA	1947046476
SNP_P4_181809_11943	NW_004518133.1	Scaffold3438	11943	CC	AA	1947046477
SNP_P4_181810_12036	NW_004518133.1	Scaffold3438	12036	AA	TT	1947046478
SNP_P4_181811_12038	NW_004518133.1	Scaffold3438	12038	TT	AA	1947046480
SNP_P4_181812_12209	NW_004518133.1	Scaffold3438	12209	TT	CC	1947046482
SNP_P4_181813_12384	NW_004518133.1	Scaffold3438	12384	TT	AA	1947046484
SNP_P4_181815_12393	NW_004518133.1	Scaffold3438	12393	GG	TT	1947046486
SNP_P4_181816_12419	NW_004518133.1	Scaffold3438	12419	GG	TT	1947046488
SNP_P4_181817_12441	NW_004518133.1	Scaffold3438	12441	CC	TT	1947046490
SNP_P4_181818_12496	NW_004518133.1	Scaffold3438	12496	CC	TT	1947046492
SNP_P4_181819_12544	NW_004518133.1	Scaffold3438	12544	AA	GG	1947046494
SNP_P4_181820_12563	NW_004518133.1	Scaffold3438	12563	AA	GG	1947046496
SNP_P4_181821_12596	NW_004518133.1	Scaffold3438	12596	TT	AA	1947046498
SNP_P4_181822_12607	NW_004518133.1	Scaffold3438	12607	CC	AA	1947046500
SNP_P4_181823_12609	NW_004518133.1	Scaffold3438	12609	TT	AA	1947046502
SNP_P4_181824_12611	NW_004518133.1	Scaffold3438	12611	CC	AA	1947046504
SNP_P4_181825_12636	NW_004518133.1	Scaffold3438	12636	CC	TT	1947046506
SNP_P4_181826_12645	NW_004518133.1	Scaffold3438	12645	TT	CC	1947046508
SNP_P4_181827_12674	NW_004518133.1	Scaffold3438	12674	AA	TT	1947046510
SNP_P4_181828_12870	NW_004518133.1	Scaffold3438	12870	CC	TT	1947046512
SNP_P4_181829_12877	NW_004518133.1	Scaffold3438	12877	AA	GG	1947046514
SNP_P4_181830_12916	NW_004518133.1	Scaffold3438	12916	GG	AA	1947046516
SNP_P4_181831_12947	NW_004518133.1	Scaffold3438	12947	TT	AA	1947046518
SNP_P4_181832_12951	NW_004518133.1	Scaffold3438	12951	GG	AA	1947046520
SNP_P4_181833_12960	NW_004518133.1	Scaffold3438	12960	CC	TT	1947046522
SNP_P4_181834_12966	NW_004518133.1	Scaffold3438	12966	AA	GG	1947046524
SNP_P4_181835_13107	NW_004518133.1	Scaffold3438	13107	CC	TT	1947046526
SNP_P4_181836_13149	NW_004518133.1	Scaffold3438	13149	AA	GG	1947046528
SNP_P4_181837_13535	NW_004518133.1	Scaffold3438	13535	TT	CC	1947046530
SNP_P4_181838_22501	NW_004518133.1	Scaffold3438	22501	GG	AA	1947046532
SNP_P4_181839_22537	NW_004518133.1	Scaffold3438	22537	TT	AA	1947046534
SNP_P4_181841_22761	NW_004518133.1	Scaffold3438	22761	CC	TT	1947046536
SNP_P4_181842_22919	NW_004518133.1	Scaffold3438	22919	TT	CC	1947046538
SNP_P4_181843_23140	NW_004518133.1	Scaffold3438	23140	GG	AA	1947046540

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_181844_289	NW_004518138.1	Scaffold3444	289	AA	GG	1947046542
SNP_P4_181845_11494	NW_004518138.1	Scaffold3444	11494	AA	GG	1947046544
SNP_P4_181846_11419	NW_004518139.1	Scaffold3445	11419	TT	CC	1947046546
SNP_P4_181847_11897	NW_004518141.1	Scaffold3447	11897	CC	AA	1947046548
SNP_P4_181848_11935	NW_004518141.1	Scaffold3447	11935	CC	TT	1947046550
SNP_P4_181849_11964	NW_004518141.1	Scaffold3447	11964	TT	GG	1947046552
SNP_P4_181850_21398	NW_004518141.1	Scaffold3447	21398	CC	AA	1947046554
SNP_P4_181851_30868	NW_004518141.1	Scaffold3447	30868	CC	GG	1947046556
SNP_P4_181852_34589	NW_004518141.1	Scaffold3447	34589	AA	TT	1947046558
SNP_P4_181853_94	NW_004518142.1	Scaffold3448	94	GG	AA	1947046560
SNP_P4_181854_115	NW_004518142.1	Scaffold3448	115	GG	AA	1947046562
SNP_P4_181855_2389	NW_004518142.1	Scaffold3448	2389	GG	TT	1947046564
SNP_P4_181856_2421	NW_004518142.1	Scaffold3448	2421	AA	CC	1947046566
SNP_P4_181857_2790	NW_004518142.1	Scaffold3448	2790	TT	AA	1947046568
SNP_P4_181858_3019	NW_004518142.1	Scaffold3448	3019	AA	GG	1947046570
SNP_P4_181859_3049	NW_004518142.1	Scaffold3448	3049	CC	AA	1947046572
SNP_P4_181860_3054	NW_004518142.1	Scaffold3448	3054	CC	TT	1947046574
SNP_P4_181861_5425	NW_004518142.1	Scaffold3448	5425	AA	TT	1947046576
SNP_P4_181862_5489	NW_004518142.1	Scaffold3448	5489	CC	TT	1947046578
SNP_P4_181863_5618	NW_004518142.1	Scaffold3448	5618	TT	CC	1947046580
SNP_P4_181864_5796	NW_004518142.1	Scaffold3448	5796	CC	TT	1947046582
SNP_P4_181865_5836	NW_004518142.1	Scaffold3448	5836	TT	CC	1947046584
SNP_P4_181866_5897	NW_004518142.1	Scaffold3448	5897	TT	GG	1947046586
SNP_P4_181867_5953	NW_004518142.1	Scaffold3448	5953	AA	TT	1947046588
SNP_P4_181868_6017	NW_004518142.1	Scaffold3448	6017	AA	GG	1947046590
SNP_P4_181869_6025	NW_004518142.1	Scaffold3448	6025	CC	AA	1947046592
SNP_P4_181870_6458	NW_004518142.1	Scaffold3448	6458	TT	GG	1947046594
SNP_P4_181871_2515	NW_004518143.1	Scaffold3450	2515	TT	AA	1947046596
SNP_P4_181872_2718	NW_004518143.1	Scaffold3450	2718	TT	AA	1947046598
SNP_P4_181873_3206	NW_004518143.1	Scaffold3450	3206	TT	AA	1947046600
SNP_P4_181874_3211	NW_004518143.1	Scaffold3450	3211	GG	TT	1947046602
SNP_P4_181875_3259	NW_004518143.1	Scaffold3450	3259	GG	CC	1947046604
SNP_P4_181876_3315	NW_004518143.1	Scaffold3450	3315	AA	TT	1947046606
SNP_P4_181877_13478	NW_004518143.1	Scaffold3450	13478	TT	CC	1947046608
SNP_P4_181878_15100	NW_004518143.1	Scaffold3450	15100	GG	CC	1947046610
SNP_P4_181879_15103	NW_004518143.1	Scaffold3450	15103	AA	TT	1947046612
SNP_P4_181881_1178	NW_004518145.1	Scaffold3453	1178	TT	GG	1947046614
SNP_P4_181882_1922	NW_004518145.1	Scaffold3453	1922	TT	CC	1947046616
SNP_P4_181883_2035	NW_004518145.1	Scaffold3453	2035	TT	CC	1947046618
SNP_P4_181884_2157	NW_004518145.1	Scaffold3453	2157	AA	TT	1947046620
SNP_P4_181885_2158	NW_004518145.1	Scaffold3453	2158	TT	GG	1947046622
SNP_P4_181886_5508	NW_004518146.1	Scaffold3454	5508	TT	AA	1947046624

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_181887_299	NW_004518147.1	Scaffold3455	299	TT	CC	1947046626
SNP_P4_181888_413	NW_004518147.1	Scaffold3455	413	CC	AA	1947046628
SNP_P4_181889_675	NW_004518147.1	Scaffold3455	675	AA	GG	1947046630
SNP_P4_181890_676	NW_004518147.1	Scaffold3455	676	AA	TT	1947046632
SNP_P4_181891_709	NW_004518147.1	Scaffold3455	709	TT	CC	1947046634
SNP_P4_181892_761	NW_004518147.1	Scaffold3455	761	AA	GG	1947046636
SNP_P4_181893_769	NW_004518147.1	Scaffold3455	769	AA	TT	1947046638
SNP_P4_181894_808	NW_004518147.1	Scaffold3455	808	AA	TT	1947046640
SNP_P4_181895_902	NW_004518147.1	Scaffold3455	902	GG	AA	1947046642
SNP_P4_181896_903	NW_004518147.1	Scaffold3455	903	AA	GG	1947046644
SNP_P4_181897_1064	NW_004518147.1	Scaffold3455	1064	TT	CC	1947046646
SNP_P4_181898_1102	NW_004518147.1	Scaffold3455	1102	CC	TT	1947046648
SNP_P4_181899_522	NW_004518148.1	Scaffold3457	522	TT	AA	1947046650
SNP_P4_181900_660	NW_004518148.1	Scaffold3457	660	GG	AA	1947046652
SNP_P4_181901_718	NW_004518148.1	Scaffold3457	718	TT	GG	1947046654
SNP_P4_181902_2321	NW_004518148.1	Scaffold3457	2321	AA	TT	1947046656
SNP_P4_181903_4677	NW_004518148.1	Scaffold3457	4677	GG	AA	1947046658
SNP_P4_181904_4804	NW_004518148.1	Scaffold3457	4804	AA	GG	1947046660
SNP_P4_181905_4854	NW_004518148.1	Scaffold3457	4854	CC	TT	1947046662
SNP_P4_181906_4855	NW_004518148.1	Scaffold3457	4855	GG	TT	1947046664
SNP_P4_181907_4898	NW_004518148.1	Scaffold3457	4898	CC	TT	1947046666
SNP_P4_181908_5064	NW_004518148.1	Scaffold3457	5064	CC	TT	1947046668
SNP_P4_181909_7056	NW_004518149.1	Scaffold3458	7056	GG	AA	1947046670
SNP_P4_181910_7126	NW_004518149.1	Scaffold3458	7126	GG	AA	1947046672
SNP_P4_181911_7329	NW_004518149.1	Scaffold3458	7329	GG	TT	1947046674
SNP_P4_181912_7361	NW_004518149.1	Scaffold3458	7361	TT	CC	1947046676
SNP_P4_181913_7501	NW_004518149.1	Scaffold3458	7501	GG	AA	1947046678
SNP_P4_181914_9292	NW_004518149.1	Scaffold3458	9292	AA	GG	1947046681
SNP_P4_181915_9964	NW_004518149.1	Scaffold3458	9964	CC	TT	1947046682
SNP_P4_181917_10045	NW_004518149.1	Scaffold3458	10045	AA	GG	1947046684
SNP_P4_181918_11422	NW_004518149.1	Scaffold3458	11422	TT	AA	1947046686
SNP_P4_181919_11619	NW_004518149.1	Scaffold3458	11619	AA	TT	1947046688
SNP_P4_181920_11622	NW_004518149.1	Scaffold3458	11622	AA	CC	1947046690
SNP_P4_181921_11694	NW_004518149.1	Scaffold3458	11694	CC	AA	1947046692
SNP_P4_181922_11712	NW_004518149.1	Scaffold3458	11712	CC	TT	1947046694
SNP_P4_181923_11728	NW_004518149.1	Scaffold3458	11728	AA	TT	1947046696
SNP_P4_181924_11908	NW_004518149.1	Scaffold3458	11908	GG	CC	1947046698
SNP_P4_181925_11912	NW_004518149.1	Scaffold3458	11912	CC	GG	1947046700
SNP_P4_181926_12048	NW_004518149.1	Scaffold3458	12048	AA	CC	1947046702
SNP_P4_181927_16256	NW_004518149.1	Scaffold3458	16256	GG	AA	1947046704
SNP_P4_181928_16481	NW_004518149.1	Scaffold3458	16481	TT	CC	1947046706
SNP_P4_181929_17829	NW_004518149.1	Scaffold3458	17829	TT	GG	1947046708

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_181930_9043	NW_004518154.1	Scaffold3463	9043	TT	AA	1947046710
SNP_P4_181931_9079	NW_004518154.1	Scaffold3463	9079	TT	CC	1947046712
SNP_P4_181932_9181	NW_004518154.1	Scaffold3463	9181	GG	TT	1947046714
SNP_P4_181933_9227	NW_004518154.1	Scaffold3463	9227	GG	AA	1947046716
SNP_P4_181934_9460	NW_004518154.1	Scaffold3463	9460	TT	GG	1947046718
SNP_P4_181935_9559	NW_004518154.1	Scaffold3463	9559	CC	TT	1947046720
SNP_P4_181936_9570	NW_004518154.1	Scaffold3463	9570	AA	TT	1947046722
SNP_P4_181937_9593	NW_004518154.1	Scaffold3463	9593	GG	AA	1947046724
SNP_P4_181938_10724	NW_004518154.1	Scaffold3463	10724	TT	CC	1947046726
SNP_P4_181939_10731	NW_004518154.1	Scaffold3463	10731	AA	GG	1947046728
SNP_P4_181940_11925	NW_004518154.1	Scaffold3463	11925	GG	TT	1947046730
SNP_P4_181941_11954	NW_004518154.1	Scaffold3463	11954	AA	TT	1947046732
SNP_P4_181942_12501	NW_004518154.1	Scaffold3463	12501	AA	GG	1947046734
SNP_P4_181943_12574	NW_004518154.1	Scaffold3463	12574	TT	AA	1947046736
SNP_P4_181944_15600	NW_004518154.1	Scaffold3463	15600	TT	AA	1947046738
SNP_P4_181945_15617	NW_004518154.1	Scaffold3463	15617	GG	CC	1947046740
SNP_P4_181946_15659	NW_004518154.1	Scaffold3463	15659	AA	TT	1947046742
SNP_P4_181947_15664	NW_004518154.1	Scaffold3463	15664	TT	GG	1947046744
SNP_P4_181948_15667	NW_004518154.1	Scaffold3463	15667	AA	CC	1947046746
SNP_P4_181949_15860	NW_004518154.1	Scaffold3463	15860	CC	TT	1947046748
SNP_P4_181950_15862	NW_004518154.1	Scaffold3463	15862	CC	AA	1947046750
SNP_P4_181951_15876	NW_004518154.1	Scaffold3463	15876	AA	TT	1947046752
SNP_P4_181952_15892	NW_004518154.1	Scaffold3463	15892	GG	AA	1947046754
SNP_P4_181953_15907	NW_004518154.1	Scaffold3463	15907	AA	TT	1947046756
SNP_P4_181954_15948	NW_004518154.1	Scaffold3463	15948	TT	CC	1947046758
SNP_P4_181955_17002	NW_004518154.1	Scaffold3463	17002	CC	TT	1947046760
SNP_P4_181956_17051	NW_004518154.1	Scaffold3463	17051	TT	CC	1947046762
SNP_P4_181957_21643	NW_004518154.1	Scaffold3463	21643	CC	TT	1947046764
SNP_P4_181958_503	NW_004518155.1	Scaffold3464	503	CC	AA	1947046766
SNP_P4_181959_5419	NW_004518155.1	Scaffold3464	5419	CC	TT	1947046768
SNP_P4_181960_11243	NW_004518155.1	Scaffold3464	11243	TT	CC	1947046770
SNP_P4_181961_13499	NW_004518155.1	Scaffold3464	13499	TT	CC	1947046772
SNP_P4_181962_13525	NW_004518155.1	Scaffold3464	13525	GG	AA	1947046774
SNP_P4_181963_17027	NW_004518155.1	Scaffold3464	17027	CC	TT	1947046776
SNP_P4_181964_17082	NW_004518155.1	Scaffold3464	17082	CC	TT	1947046778
SNP_P4_181965_17139	NW_004518155.1	Scaffold3464	17139	CC	AA	1947046780
SNP_P4_181966_17390	NW_004518155.1	Scaffold3464	17390	AA	TT	1947046782
SNP_P4_181967_971	NW_004518157.1	Scaffold3466	971	GG	AA	1947046784
SNP_P4_181968_982	NW_004518157.1	Scaffold3466	982	CC	AA	1947046786
SNP_P4_181969_64	NW_004518159.1	Scaffold3468	64	TT	GG	1947046788
SNP_P4_181970_67	NW_004518159.1	Scaffold3468	67	TT	GG	1947046790
SNP_P4_181971_108	NW_004518159.1	Scaffold3468	108	CC	TT	1947046792

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_181972_236	NW_004518159.1	Scaffold3468	236	AA	GG	1947046794
SNP_P4_181973_331	NW_004518159.1	Scaffold3468	331	TT	AA	1947046796
SNP_P4_181974_379	NW_004518159.1	Scaffold3468	379	AA	GG	1947046798
SNP_P4_181975_1203	NW_004518159.1	Scaffold3468	1203	CC	AA	1947046800
SNP_P4_181976_1733	NW_004518159.1	Scaffold3468	1733	TT	GG	1947046802
SNP_P4_181977_2088	NW_004518160.1	Scaffold3470	2088	CC	TT	1947046804
SNP_P4_181978_2103	NW_004518160.1	Scaffold3470	2103	CC	TT	1947046806
SNP_P4_181979_2104	NW_004518160.1	Scaffold3470	2104	TT	CC	1947046808
SNP_P4_181980_2121	NW_004518160.1	Scaffold3470	2121	TT	CC	1947046810
SNP_P4_181981_2133	NW_004518160.1	Scaffold3470	2133	TT	CC	1947046812
SNP_P4_181983_16805	NW_004518160.1	Scaffold3470	16805	TT	CC	1947046814
SNP_P4_181984_16813	NW_004518160.1	Scaffold3470	16813	CC	TT	1947046816
SNP_P4_181985_16824	NW_004518160.1	Scaffold3470	16824	GG	TT	1947046818
SNP_P4_181986_16833	NW_004518160.1	Scaffold3470	16833	TT	GG	1947046820
SNP_P4_181987_16835	NW_004518160.1	Scaffold3470	16835	TT	AA	1947046822
SNP_P4_181988_21568	NW_004518160.1	Scaffold3470	21568	CC	TT	1947046824
SNP_P4_181989_37734	NW_004518160.1	Scaffold3470	37734	CC	AA	1947046826
SNP_P4_181990_37769	NW_004518160.1	Scaffold3470	37769	AA	TT	1947046828
SNP_P4_181991_37908	NW_004518160.1	Scaffold3470	37908	AA	TT	1947046830
SNP_P4_181992_38130	NW_004518160.1	Scaffold3470	38130	AA	TT	1947046832
SNP_P4_181993_38145	NW_004518160.1	Scaffold3470	38145	TT	CC	1947046834
SNP_P4_181994_38664	NW_004518160.1	Scaffold3470	38664	GG	AA	1947046836
SNP_P4_181995_43024	NW_004518160.1	Scaffold3470	43024	GG	AA	1947046838
SNP_P4_181996_44757	NW_004518160.1	Scaffold3470	44757	GG	AA	1947046840
SNP_P4_181997_44813	NW_004518160.1	Scaffold3470	44813	TT	AA	1947046842
SNP_P4_181998_47304	NW_004518160.1	Scaffold3470	47304	TT	GG	1947046844
SNP_P4_181999_49684	NW_004518160.1	Scaffold3470	49684	CC	TT	1947046846
SNP_P4_182000_50337	NW_004518160.1	Scaffold3470	50337	GG	AA	1947046848
SNP_P4_182001_50347	NW_004518160.1	Scaffold3470	50347	TT	GG	1947046850
SNP_P4_182002_50393	NW_004518160.1	Scaffold3470	50393	TT	CC	1947046852
SNP_P4_182003_50412	NW_004518160.1	Scaffold3470	50412	TT	AA	1947046854
SNP_P4_182004_50415	NW_004518160.1	Scaffold3470	50415	TT	CC	1947046856
SNP_P4_182005_61245	NW_004518160.1	Scaffold3470	61245	GG	CC	1947046858
SNP_P4_182006_64803	NW_004518160.1	Scaffold3470	64803	GG	AA	1947046860
SNP_P4_182007_73036	NW_004518160.1	Scaffold3470	73036	CC	GG	1947046862
SNP_P4_182008_75247	NW_004518160.1	Scaffold3470	75247	AA	CC	1947046865
SNP_P4_182009_75266	NW_004518160.1	Scaffold3470	75266	TT	CC	1947046867
SNP_P4_182010_75321	NW_004518160.1	Scaffold3470	75321	TT	AA	1947046869
SNP_P4_182011_77918	NW_004518160.1	Scaffold3470	77918	TT	CC	1947046871
SNP_P4_182012_78744	NW_004518160.1	Scaffold3470	78744	TT	AA	1947046873
SNP_P4_182013_78751	NW_004518160.1	Scaffold3470	78751	TT	GG	1947046875
SNP_P4_182014_78754	NW_004518160.1	Scaffold3470	78754	CC	TT	1947046877

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_182016_78901	NW_004518160.1	Scaffold3470	78901	AA	GG	1947046881
SNP_P4_182017_82054	NW_004518160.1	Scaffold3470	82054	CC	TT	1947046883
SNP_P4_182018_82184	NW_004518160.1	Scaffold3470	82184	GG	CC	1947046885
SNP_P4_182019_82430	NW_004518160.1	Scaffold3470	82430	TT	GG	1947046887
SNP_P4_182020_82513	NW_004518160.1	Scaffold3470	82513	AA	TT	1947046889
SNP_P4_182021_82529	NW_004518160.1	Scaffold3470	82529	GG	CC	1947046891
SNP_P4_182022_82609	NW_004518160.1	Scaffold3470	82609	TT	CC	1947046893
SNP_P4_182023_85435	NW_004518160.1	Scaffold3470	85435	AA	CC	1947046895
SNP_P4_182024_85759	NW_004518160.1	Scaffold3470	85759	TT	CC	1947046897
SNP_P4_182025_98353	NW_004518160.1	Scaffold3470	98353	AA	GG	1947046898
SNP_P4_182026_100455	NW_004518160.1	Scaffold3470	100455	TT	CC	1947046900
SNP_P4_182027_100480	NW_004518160.1	Scaffold3470	100480	TT	AA	1947046902
SNP_P4_182028_102172	NW_004518160.1	Scaffold3470	102172	AA	GG	1947046904
SNP_P4_182029_5673	NW_004518162.1	Scaffold3472	5673	GG	AA	1947046906
SNP_P4_182031_6967	NW_004518162.1	Scaffold3472	6967	GG	TT	1947046908
SNP_P4_182033_7108	NW_004518162.1	Scaffold3472	7108	CC	AA	1947046910
SNP_P4_182034_7131	NW_004518162.1	Scaffold3472	7131	TT	CC	1947046912
SNP_P4_182036_7278	NW_004518162.1	Scaffold3472	7278	GG	AA	1947046914
SNP_P4_182037_7499	NW_004518162.1	Scaffold3472	7499	TT	CC	1947046916
SNP_P4_182038_8759	NW_004518162.1	Scaffold3472	8759	AA	GG	1947046918
SNP_P4_182039_8837	NW_004518162.1	Scaffold3472	8837	CC	TT	1947046920
SNP_P4_182040_8876	NW_004518162.1	Scaffold3472	8876	TT	CC	1947046922
SNP_P4_182041_8894	NW_004518162.1	Scaffold3472	8894	AA	GG	1947046924
SNP_P4_182042_8990	NW_004518162.1	Scaffold3472	8990	GG	AA	1947046926
SNP_P4_182044_9135	NW_004518162.1	Scaffold3472	9135	AA	GG	1947046928
SNP_P4_182045_9238	NW_004518162.1	Scaffold3472	9238	AA	GG	1947046930
SNP_P4_182046_9305	NW_004518162.1	Scaffold3472	9305	CC	TT	1947046932
SNP_P4_182048_9533	NW_004518162.1	Scaffold3472	9533	GG	AA	1947046933
SNP_P4_182049_9573	NW_004518162.1	Scaffold3472	9573	CC	TT	1947046935
SNP_P4_182050_9583	NW_004518162.1	Scaffold3472	9583	AA	CC	1947046937
SNP_P4_182051_9627	NW_004518162.1	Scaffold3472	9627	CC	GG	1947046939
SNP_P4_182052_9837	NW_004518162.1	Scaffold3472	9837	CC	TT	1947046941
SNP_P4_182053_9902	NW_004518162.1	Scaffold3472	9902	CC	TT	1947046943
SNP_P4_182054_9919	NW_004518162.1	Scaffold3472	9919	CC	TT	1947046945
SNP_P4_182055_9959	NW_004518162.1	Scaffold3472	9959	CC	TT	1947046947
SNP_P4_182056_10072	NW_004518162.1	Scaffold3472	10072	TT	CC	1947046949
SNP_P4_182057_10232	NW_004518162.1	Scaffold3472	10232	TT	CC	1947046951
SNP_P4_182058_10235	NW_004518162.1	Scaffold3472	10235	TT	AA	1947046953
SNP_P4_182059_13355	NW_004518162.1	Scaffold3472	13355	TT	CC	1947046955
SNP_P4_182062_526	NW_004518163.1	Scaffold3473	526	TT	CC	1947046957
SNP_P4_182063_592	NW_004518163.1	Scaffold3473	592	AA	TT	1947046959

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_182064_636	NW_004518163.1	Scaffold3473	636	AA	GG	1947046961
SNP_P4_182065_674	NW_004518163.1	Scaffold3473	674	CC	TT	1947046963
SNP_P4_182066_734	NW_004518163.1	Scaffold3473	734	TT	GG	1947046964
SNP_P4_182067_741	NW_004518163.1	Scaffold3473	741	CC	TT	1947046966
SNP_P4_182068_764	NW_004518163.1	Scaffold3473	764	TT	CC	1947047050
SNP_P4_182069_455	NW_004518164.1	Scaffold3474	455	TT	CC	1947047052
SNP_P4_182070_493	NW_004518164.1	Scaffold3474	493	AA	GG	1947047054
SNP_P4_182071_993	NW_004518164.1	Scaffold3474	993	GG	AA	1947047056
SNP_P4_182072_1009	NW_004518164.1	Scaffold3474	1009	TT	CC	1947047058
SNP_P4_182073_1015	NW_004518164.1	Scaffold3474	1015	AA	GG	1947047060
SNP_P4_182074_1048	NW_004518164.1	Scaffold3474	1048	TT	AA	1947047062
SNP_P4_182075_1050	NW_004518164.1	Scaffold3474	1050	CC	AA	1947047064
SNP_P4_182076_580	NW_004518165.1	Scaffold3475	580	CC	TT	1947047066
SNP_P4_182077_973	NW_004518165.1	Scaffold3475	973	AA	GG	1947047068
SNP_P4_182079_1378	NW_004518165.1	Scaffold3475	1378	GG	AA	1947047070
SNP_P4_182080_1417	NW_004518165.1	Scaffold3475	1417	AA	GG	1947047072
SNP_P4_182081_4989	NW_004518165.1	Scaffold3475	4989	AA	GG	1947047074
SNP_P4_182082_5007	NW_004518165.1	Scaffold3475	5007	CC	TT	1947047076
SNP_P4_182083_5008	NW_004518165.1	Scaffold3475	5008	GG	CC	1947047078
SNP_P4_182084_5328	NW_004518165.1	Scaffold3475	5328	GG	AA	1947047080
SNP_P4_182085_5534	NW_004518165.1	Scaffold3475	5534	TT	AA	1947047082
SNP_P4_182086_5535	NW_004518165.1	Scaffold3475	5535	CC	AA	1947047084
SNP_P4_182087_5809	NW_004518165.1	Scaffold3475	5809	TT	CC	1947047086
SNP_P4_182088_5896	NW_004518165.1	Scaffold3475	5896	CC	TT	1947047088
SNP_P4_182089_6046	NW_004518165.1	Scaffold3475	6046	GG	AA	1947047090
SNP_P4_182090_6047	NW_004518165.1	Scaffold3475	6047	TT	CC	1947047092
SNP_P4_182092_6191	NW_004518165.1	Scaffold3475	6191	GG	AA	1947047094
SNP_P4_182094_6237	NW_004518165.1	Scaffold3475	6237	CC	TT	1947047097
SNP_P4_182095_6294	NW_004518165.1	Scaffold3475	6294	GG	AA	1947047099
SNP_P4_182096_6299	NW_004518165.1	Scaffold3475	6299	GG	AA	1947047101
SNP_P4_182097_6357	NW_004518165.1	Scaffold3475	6357	CC	TT	1947047103
SNP_P4_182098_6362	NW_004518165.1	Scaffold3475	6362	CC	TT	1947047105
SNP_P4_182099_6411	NW_004518165.1	Scaffold3475	6411	GG	TT	1947047107
SNP_P4_182100_6516	NW_004518165.1	Scaffold3475	6516	AA	GG	1947047109
SNP_P4_182101_7438	NW_004518165.1	Scaffold3475	7438	TT	CC	1947047111
SNP_P4_182102_7474	NW_004518165.1	Scaffold3475	7474	CC	TT	1947047113
SNP_P4_182104_7623	NW_004518165.1	Scaffold3475	7623	AA	TT	1947047115
SNP_P4_182105_7721	NW_004518165.1	Scaffold3475	7721	GG	AA	1947047117
SNP_P4_182106_7772	NW_004518165.1	Scaffold3475	7772	TT	CC	1947047119
SNP_P4_182107_7853	NW_004518165.1	Scaffold3475	7853	CC	TT	1947047121
SNP_P4_182108_7878	NW_004518165.1	Scaffold3475	7878	GG	AA	1947047123
SNP_P4_182109_7998	NW_004518165.1	Scaffold3475	7998	GG	CC	1947047125

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_182111_8124	NW_004518165.1	Scaffold3475	8124	TT	CC	1947047129
SNP_P4_182112_8497	NW_004518165.1	Scaffold3475	8497	GG	AA	1947047131
SNP_P4_182113_9816	NW_004518165.1	Scaffold3475	9816	AA	GG	1947047133
SNP_P4_182114_9898	NW_004518165.1	Scaffold3475	9898	GG	AA	1947047135
SNP_P4_182115_9975	NW_004518165.1	Scaffold3475	9975	AA	GG	1947047137
SNP_P4_182116_9983	NW_004518165.1	Scaffold3475	9983	AA	TT	1947047139
SNP_P4_182117_10072	NW_004518165.1	Scaffold3475	10072	CC	GG	1947047141
SNP_P4_182118_10158	NW_004518165.1	Scaffold3475	10158	AA	GG	1947047143
SNP_P4_182119_10273	NW_004518165.1	Scaffold3475	10273	CC	TT	1947047145
SNP_P4_182120_10275	NW_004518165.1	Scaffold3475	10275	GG	AA	1947047147
SNP_P4_182121_10279	NW_004518165.1	Scaffold3475	10279	GG	AA	1947047149
SNP_P4_182122_10326	NW_004518165.1	Scaffold3475	10326	AA	CC	1947047151
SNP_P4_182123_10429	NW_004518165.1	Scaffold3475	10429	TT	CC	1947047153
SNP_P4_182124_10498	NW_004518165.1	Scaffold3475	10498	GG	AA	1947047155
SNP_P4_182125_10594	NW_004518165.1	Scaffold3475	10594	AA	GG	1947047157
SNP_P4_182126_20258	NW_004518165.1	Scaffold3475	20258	CC	AA	1947047159
SNP_P4_182127_20546	NW_004518165.1	Scaffold3475	20546	GG	CC	1947047161
SNP_P4_182128_20650	NW_004518165.1	Scaffold3475	20650	AA	GG	1947047163
SNP_P4_182129_22275	NW_004518165.1	Scaffold3475	22275	GG	AA	1947047165
SNP_P4_182130_22438	NW_004518165.1	Scaffold3475	22438	CC	TT	1947047167
SNP_P4_182131_22514	NW_004518165.1	Scaffold3475	22514	GG	TT	1947047169
SNP_P4_182132_27260	NW_004518165.1	Scaffold3475	27260	TT	AA	1947047170
SNP_P4_182133_27318	NW_004518165.1	Scaffold3475	27318	AA	GG	1947047172
SNP_P4_182134_27397	NW_004518165.1	Scaffold3475	27397	TT	CC	1947047174
SNP_P4_182135_27400	NW_004518165.1	Scaffold3475	27400	AA	GG	1947047176
SNP_P4_182136_27509	NW_004518165.1	Scaffold3475	27509	CC	GG	1947047178
SNP_P4_182137_27526	NW_004518165.1	Scaffold3475	27526	GG	AA	1947047180
SNP_P4_182138_27708	NW_004518165.1	Scaffold3475	27708	TT	AA	1947047182
SNP_P4_182139_27755	NW_004518165.1	Scaffold3475	27755	CC	TT	1947047185
SNP_P4_182140_27779	NW_004518165.1	Scaffold3475	27779	TT	CC	1947047187
SNP_P4_182141_29290	NW_004518165.1	Scaffold3475	29290	GG	TT	1947047189
SNP_P4_182142_29326	NW_004518165.1	Scaffold3475	29326	CC	AA	1947047191
SNP_P4_182143_29332	NW_004518165.1	Scaffold3475	29332	TT	GG	1947047193
SNP_P4_182144_29868	NW_004518165.1	Scaffold3475	29868	AA	GG	1947047195
SNP_P4_182145_29876	NW_004518165.1	Scaffold3475	29876	CC	GG	1947047197
SNP_P4_182146_29909	NW_004518165.1	Scaffold3475	29909	AA	GG	1947047199
SNP_P4_182147_29946	NW_004518165.1	Scaffold3475	29946	TT	GG	1947047201
SNP_P4_182148_30039	NW_004518165.1	Scaffold3475	30039	GG	AA	1947047203
SNP_P4_182149_30047	NW_004518165.1	Scaffold3475	30047	AA	GG	1947047205
SNP_P4_182150_30210	NW_004518165.1	Scaffold3475	30210	CC	GG	1947047207
SNP_P4_182151_30356	NW_004518165.1	Scaffold3475	30356	GG	AA	1947047209

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_182153_30452	NW_004518165.1	Scaffold3475	30452	GG	AA	1947047213
SNP_P4_182154_30499	NW_004518165.1	Scaffold3475	30499	AA	GG	1947047215
SNP_P4_182155_30602	NW_004518165.1	Scaffold3475	30602	GG	AA	1947047217
SNP_P4_182156_30751	NW_004518165.1	Scaffold3475	30751	AA	CC	1947047219
SNP_P4_182157_30755	NW_004518165.1	Scaffold3475	30755	TT	GG	1947047221
SNP_P4_182158_30934	NW_004518165.1	Scaffold3475	30934	CC	TT	1947047223
SNP_P4_182159_30970	NW_004518165.1	Scaffold3475	30970	CC	TT	1947047225
SNP_P4_182160_30985	NW_004518165.1	Scaffold3475	30985	GG	AA	1947047227
SNP_P4_182161_31159	NW_004518165.1	Scaffold3475	31159	AA	GG	1947047229
SNP_P4_182162_31172	NW_004518165.1	Scaffold3475	31172	AA	GG	1947047231
SNP_P4_182164_31337	NW_004518165.1	Scaffold3475	31337	CC	AA	1947047233
SNP_P4_182165_31658	NW_004518165.1	Scaffold3475	31658	GG	AA	1947047235
SNP_P4_182166_32192	NW_004518165.1	Scaffold3475	32192	CC	TT	1947047237
SNP_P4_182167_33399	NW_004518165.1	Scaffold3475	33399	AA	CC	1947047239
SNP_P4_182169_33461	NW_004518165.1	Scaffold3475	33461	AA	TT	1947047241
SNP_P4_182171_34735	NW_004518165.1	Scaffold3475	34735	CC	TT	1947047243
SNP_P4_182172_36734	NW_004518165.1	Scaffold3475	36734	TT	CC	1947047245
SNP_P4_182173_36737	NW_004518165.1	Scaffold3475	36737	GG	CC	1947047247
SNP_P4_182174_36761	NW_004518165.1	Scaffold3475	36761	TT	GG	1947047249
SNP_P4_182175_36895	NW_004518165.1	Scaffold3475	36895	TT	AA	1947047251
SNP_P4_182176_36902	NW_004518165.1	Scaffold3475	36902	CC	GG	1947047253
SNP_P4_182177_36935	NW_004518165.1	Scaffold3475	36935	CC	GG	1947047255
SNP_P4_182178_36994	NW_004518165.1	Scaffold3475	36994	AA	GG	1947047257
SNP_P4_182179_37009	NW_004518165.1	Scaffold3475	37009	GG	AA	1947047259
SNP_P4_182180_37129	NW_004518165.1	Scaffold3475	37129	TT	CC	1947047261
SNP_P4_182181_37240	NW_004518165.1	Scaffold3475	37240	TT	CC	1947047263
SNP_P4_182182_38584	NW_004518165.1	Scaffold3475	38584	AA	GG	1947047265
SNP_P4_182183_38624	NW_004518165.1	Scaffold3475	38624	TT	AA	1947047267
SNP_P4_182184_38632	NW_004518165.1	Scaffold3475	38632	GG	AA	1947047269
SNP_P4_182185_38795	NW_004518165.1	Scaffold3475	38795	GG	TT	1947047271
SNP_P4_182186_38888	NW_004518165.1	Scaffold3475	38888	GG	TT	1947047273
SNP_P4_182187_42792	NW_004518165.1	Scaffold3475	42792	GG	AA	1947047275
SNP_P4_182188_43050	NW_004518165.1	Scaffold3475	43050	TT	CC	1947047277
SNP_P4_182189_43194	NW_004518165.1	Scaffold3475	43194	AA	GG	1947047279
SNP_P4_182190_45207	NW_004518165.1	Scaffold3475	45207	AA	CC	1947047281
SNP_P4_182191_56242	NW_004518165.1	Scaffold3475	56242	CC	TT	1947047283
SNP_P4_182192_56373	NW_004518165.1	Scaffold3475	56373	GG	TT	1947047285
SNP_P4_182193_56774	NW_004518165.1	Scaffold3475	56774	TT	GG	1947047287
SNP_P4_182194_56876	NW_004518165.1	Scaffold3475	56876	GG	AA	1947047290
SNP_P4_182195_60320	NW_004518165.1	Scaffold3475	60320	AA	GG	1947047292
SNP_P4_182196_70577	NW_004518165.1	Scaffold3475	70577	AA	GG	1947047293

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_182198_70590	NW_004518165.1	Scaffold3475	70590	CC	TT	1947047297
SNP_P4_182199_70615	NW_004518165.1	Scaffold3475	70615	GG	AA	1947047299
SNP_P4_182200_71363	NW_004518165.1	Scaffold3475	71363	GG	TT	1947047301
SNP_P4_182201_73783	NW_004518165.1	Scaffold3475	73783	TT	CC	1947047303
SNP_P4_182202_5716	NW_004518166.1	Scaffold3476	5716	CC	AA	1947047305
SNP_P4_182203_6027	NW_004518166.1	Scaffold3476	6027	GG	AA	1947047307
SNP_P4_182204_1281	NW_004518170.1	Scaffold3483	1281	TT	GG	1947047309
SNP_P4_182205_64	NW_004518172.1	Scaffold3485	64	CC	TT	1947047311
SNP_P4_182206_66	NW_004518172.1	Scaffold3485	66	GG	AA	1947047314
SNP_P4_182207_71	NW_004518172.1	Scaffold3485	71	AA	CC	1947047316
SNP_P4_182208_418	NW_004518172.1	Scaffold3485	418	TT	AA	1947047318
SNP_P4_182209_467	NW_004518172.1	Scaffold3485	467	AA	TT	1947047320
SNP_P4_182210_504	NW_004518172.1	Scaffold3485	504	GG	AA	1947047322
SNP_P4_182211_1717	NW_004518172.1	Scaffold3485	1717	AA	TT	1947047324
SNP_P4_182212_1779	NW_004518172.1	Scaffold3485	1779	AA	GG	1947047326
SNP_P4_182213_1850	NW_004518172.1	Scaffold3485	1850	AA	TT	1947047327
SNP_P4_182214_1992	NW_004518172.1	Scaffold3485	1992	GG	CC	1947047330
SNP_P4_182215_4531	NW_004518172.1	Scaffold3485	4531	TT	CC	1947047331
SNP_P4_182216_4729	NW_004518172.1	Scaffold3485	4729	CC	TT	1947047334
SNP_P4_182217_4768	NW_004518172.1	Scaffold3485	4768	TT	AA	1947047336
SNP_P4_182218_5064	NW_004518172.1	Scaffold3485	5064	TT	AA	1947047338
SNP_P4_182219_5080	NW_004518172.1	Scaffold3485	5080	AA	CC	1947047339
SNP_P4_182220_5098	NW_004518172.1	Scaffold3485	5098	TT	CC	1947047341
SNP_P4_182221_5105	NW_004518172.1	Scaffold3485	5105	AA	TT	1947047343
SNP_P4_182222_5386	NW_004518172.1	Scaffold3485	5386	AA	GG	1947047345
SNP_P4_182223_5738	NW_004518172.1	Scaffold3485	5738	CC	TT	1947047347
SNP_P4_182224_8738	NW_004518173.1	Scaffold3486	8738	CC	AA	1947047349
SNP_P4_182225_9299	NW_004518173.1	Scaffold3486	9299	TT	GG	1947047351
SNP_P4_182226_11052	NW_004518173.1	Scaffold3486	11052	TT	CC	1947047353
SNP_P4_182227_11385	NW_004518173.1	Scaffold3486	11385	AA	GG	1947047355
SNP_P4_182228_11763	NW_004518173.1	Scaffold3486	11763	AA	GG	1947047357
SNP_P4_182229_11769	NW_004518173.1	Scaffold3486	11769	TT	GG	1947047359
SNP_P4_182230_11793	NW_004518173.1	Scaffold3486	11793	TT	GG	1947047361
SNP_P4_182231_11798	NW_004518173.1	Scaffold3486	11798	TT	AA	1947047363
SNP_P4_182232_11819	NW_004518173.1	Scaffold3486	11819	GG	TT	1947047365
SNP_P4_182233_13043	NW_004518173.1	Scaffold3486	13043	AA	GG	1947047367
SNP_P4_182234_13230	NW_004518173.1	Scaffold3486	13230	GG	AA	1947047369
SNP_P4_182235_293	NW_004518175.1	Scaffold3488	293	CC	GG	1947047371
SNP_P4_182238_2086	NW_004518176.1	Scaffold3489	2086	GG	CC	1947047373
SNP_P4_182239_2296	NW_004518176.1	Scaffold3489	2296	AA	TT	1947047375
SNP_P4_182240_2321	NW_004518176.1	Scaffold3489	2321	AA	GG	1947047377

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_182242_2385	NW_004518176.1	Scaffold3489	2385	AA	TT	1947047381
SNP_P4_182243_2444	NW_004518176.1	Scaffold3489	2444	CC	TT	1947047383
SNP_P4_182244_2451	NW_004518176.1	Scaffold3489	2451	GG	TT	1947047385
SNP_P4_182246_2574	NW_004518176.1	Scaffold3489	2574	TT	GG	1947047387
SNP_P4_182247_3029	NW_004518176.1	Scaffold3489	3029	GG	AA	1947047389
SNP_P4_182248_3563	NW_004518176.1	Scaffold3489	3563	AA	TT	1947047391
SNP_P4_182249_4684	NW_004518176.1	Scaffold3489	4684	AA	GG	1947047393
SNP_P4_182250_4693	NW_004518176.1	Scaffold3489	4693	AA	CC	1947047395
SNP_P4_182251_4760	NW_004518176.1	Scaffold3489	4760	AA	CC	1947047397
SNP_P4_182252_4811	NW_004518176.1	Scaffold3489	4811	CC	AA	1947047400
SNP_P4_182253_4954	NW_004518176.1	Scaffold3489	4954	AA	TT	1947047402
SNP_P4_182254_503	NW_004518180.1	Scaffold3494	503	GG	CC	1947047404
SNP_P4_182255_634	NW_004518180.1	Scaffold3494	634	TT	GG	1947047406
SNP_P4_182256_1169	NW_004518182.1	Scaffold3497	1169	AA	GG	1947047408
SNP_P4_182257_1178	NW_004518182.1	Scaffold3497	1178	TT	CC	1947047410
SNP_P4_182258_10100	NW_004518182.1	Scaffold3497	10100	AA	CC	1947047412
SNP_P4_182259_13461	NW_004518182.1	Scaffold3497	13461	TT	CC	1947047414
SNP_P4_182260_13466	NW_004518182.1	Scaffold3497	13466	CC	TT	1947047416
SNP_P4_182261_13545	NW_004518182.1	Scaffold3497	13545	AA	GG	1947047418
SNP_P4_182262_13557	NW_004518182.1	Scaffold3497	13557	AA	CC	1947047420
SNP_P4_182263_13558	NW_004518182.1	Scaffold3497	13558	AA	CC	1947047422
SNP_P4_182265_13586	NW_004518182.1	Scaffold3497	13586	CC	TT	1947047424
SNP_P4_182266_13604	NW_004518182.1	Scaffold3497	13604	TT	AA	1947047426
SNP_P4_182267_13763	NW_004518182.1	Scaffold3497	13763	AA	GG	1947047428
SNP_P4_182268_13804	NW_004518182.1	Scaffold3497	13804	GG	AA	1947047430
SNP_P4_182269_1913	NW_004518183.1	Scaffold3498	1913	TT	GG	1947047432
SNP_P4_182270_1924	NW_004518183.1	Scaffold3498	1924	AA	CC	1947047434
SNP_P4_182271_6060	NW_004518184.1	Scaffold3500	6060	AA	GG	1947047436
SNP_P4_182273_6182	NW_004518184.1	Scaffold3500	6182	TT	CC	1947047438
SNP_P4_182274_6206	NW_004518184.1	Scaffold3500	6206	GG	AA	1947047440
SNP_P4_182275_16431	NW_004518184.1	Scaffold3500	16431	AA	GG	1947047442
SNP_P4_182276_49762	NW_004518184.1	Scaffold3500	49762	AA	GG	1947047444
SNP_P4_182277_77158	NW_004518184.1	Scaffold3500	77158	AA	CC	1947047446
SNP_P4_182278_77160	NW_004518184.1	Scaffold3500	77160	CC	AA	1947047448
SNP_P4_182279_104808	NW_004518184.1	Scaffold3500	104808	AA	GG	1947047450
SNP_P4_182280_111798	NW_004518184.1	Scaffold3500	111798	GG	AA	1947047452
SNP_P4_182282_111998	NW_004518184.1	Scaffold3500	111998	GG	TT	1947047454
SNP_P4_182283_367	NW_004518188.1	Scaffold3504	367	GG	AA	1947047456
SNP_P4_182284_414	NW_004518188.1	Scaffold3504	414	TT	AA	1947047458
SNP_P4_182285_436	NW_004518188.1	Scaffold3504	436	CC	TT	1947047460
SNP_P4_182286_3656	NW_004518189.1	Scaffold3505	3656	AA	GG	1947047462

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_182287_3727	NW_004518189.1	Scaffold3505	3727	CC	TT	1947047464
SNP_P4_182288_1455	NW_004518192.1	Scaffold3509	1455	CC	AA	1947047466
SNP_P4_182289_1086	NW_004518193.1	Scaffold3512	1086	GG	AA	1947047468
SNP_P4_182290_1098	NW_004518193.1	Scaffold3512	1098	CC	AA	1947047470
SNP_P4_182291_2448	NW_004518193.1	Scaffold3512	2448	AA	GG	1947047472
SNP_P4_182293_936	NW_004518194.1	Scaffold3513	936	TT	AA	1947047474
SNP_P4_182294_19440	NW_004518194.1	Scaffold3513	19440	CC	AA	1947047476
SNP_P4_182295_19561	NW_004518194.1	Scaffold3513	19561	GG	AA	1947047478
SNP_P4_182296_19585	NW_004518194.1	Scaffold3513	19585	CC	GG	1947047480
SNP_P4_182297_19615	NW_004518194.1	Scaffold3513	19615	GG	AA	1947047482
SNP_P4_182298_19760	NW_004518194.1	Scaffold3513	19760	AA	GG	1947047484
SNP_P4_182299_20108	NW_004518194.1	Scaffold3513	20108	CC	GG	1947047486
SNP_P4_182300_20674	NW_004518194.1	Scaffold3513	20674	GG	AA	1947047488
SNP_P4_182301_20681	NW_004518194.1	Scaffold3513	20681	CC	TT	1947047490
SNP_P4_182302_20685	NW_004518194.1	Scaffold3513	20685	TT	AA	1947047492
SNP_P4_182303_20687	NW_004518194.1	Scaffold3513	20687	AA	GG	1947047494
SNP_P4_182304_20688	NW_004518194.1	Scaffold3513	20688	AA	GG	1947047496
SNP_P4_182305_20690	NW_004518194.1	Scaffold3513	20690	AA	CC	1947047498
SNP_P4_182306_20744	NW_004518194.1	Scaffold3513	20744	AA	GG	1947047500
SNP_P4_182307_20847	NW_004518194.1	Scaffold3513	20847	CC	TT	1947047502
SNP_P4_182308_20977	NW_004518194.1	Scaffold3513	20977	AA	GG	1947047504
SNP_P4_182309_21056	NW_004518194.1	Scaffold3513	21056	TT	GG	1947047506
SNP_P4_182310_21153	NW_004518194.1	Scaffold3513	21153	TT	CC	1947047508
SNP_P4_182311_21155	NW_004518194.1	Scaffold3513	21155	GG	AA	1947047510
SNP_P4_182312_21163	NW_004518194.1	Scaffold3513	21163	TT	CC	1947047512
SNP_P4_182313_21173	NW_004518194.1	Scaffold3513	21173	CC	GG	1947047514
SNP_P4_182314_21420	NW_004518194.1	Scaffold3513	21420	AA	TT	1947047516
SNP_P4_182315_21540	NW_004518194.1	Scaffold3513	21540	GG	CC	1947047518
SNP_P4_182316_21545	NW_004518194.1	Scaffold3513	21545	AA	CC	1947047524
SNP_P4_182317_21603	NW_004518194.1	Scaffold3513	21603	TT	CC	1947047526
SNP_P4_182318_21671	NW_004518194.1	Scaffold3513	21671	GG	TT	1947047528
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SNP_P4_182320_21748	NW_004518194.1	Scaffold3513	21748	CC	TT	1947047532
SNP_P4_182321_21749	NW_004518194.1	Scaffold3513	21749	CC	TT	1947047534
SNP_P4_182322_21957	NW_004518194.1	Scaffold3513	21957	GG	TT	1947047536
SNP_P4_182323_22029	NW_004518194.1	Scaffold3513	22029	TT	GG	1947047538
SNP_P4_182324_22054	NW_004518194.1	Scaffold3513	22054	AA	GG	1947047540
SNP_P4_182325_22058	NW_004518194.1	Scaffold3513	22058	TT	CC	1947047542
SNP_P4_182326_22190	NW_004518194.1	Scaffold3513	22190	GG	TT	1947047544
SNP_P4_182327_22205	NW_004518194.1	Scaffold3513	22205	TT	CC	1947047546
SNP_P4_182328_22217	NW_004518194.1	Scaffold3513	22217	AA	GG	1947047549
SNP_P4_182329_22219	NW_004518194.1	Scaffold3513	22219	GG	AA	1947047551

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_182331_22272	NW_004518194.1	Scaffold3513	22272	CC	TT	1947047555
SNP_P4_182332_22490	NW_004518194.1	Scaffold3513	22490	TT	CC	1947047557
SNP_P4_182333_22566	NW_004518194.1	Scaffold3513	22566	AA	GG	1947047559
SNP_P4_182334_2983	NW_004518195.1	Scaffold3514	2983	TT	AA	1947047561
SNP_P4_182335_3002	NW_004518195.1	Scaffold3514	3002	AA	TT	1947047563
SNP_P4_182336_3099	NW_004518195.1	Scaffold3514	3099	AA	GG	1947047565
SNP_P4_182337_5221	NW_004518195.1	Scaffold3514	5221	TT	CC	1947047567
SNP_P4_182338_5988	NW_004518195.1	Scaffold3514	5988	AA	GG	1947047569
SNP_P4_182339_11030	NW_004518195.1	Scaffold3514	11030	TT	CC	1947047571
SNP_P4_182340_11834	NW_004518195.1	Scaffold3514	11834	GG	AA	1947047573
SNP_P4_182341_12315	NW_004518195.1	Scaffold3514	12315	GG	AA	1947047575
SNP_P4_182343_12826	NW_004518195.1	Scaffold3514	12826	AA	TT	1947047577
SNP_P4_182344_13503	NW_004518195.1	Scaffold3514	13503	CC	TT	1947047579
SNP_P4_182345_13700	NW_004518195.1	Scaffold3514	13700	CC	TT	1947047581
SNP_P4_182346_13734	NW_004518195.1	Scaffold3514	13734	GG	TT	1947047583
SNP_P4_182347_19063	NW_004518195.1	Scaffold3514	19063	TT	CC	1947047585
SNP_P4_182349_19482	NW_004518195.1	Scaffold3514	19482	TT	CC	1947047587
SNP_P4_182351_27077	NW_004518195.1	Scaffold3514	27077	CC	AA	1947047589
SNP_P4_182352_27694	NW_004518195.1	Scaffold3514	27694	TT	CC	1947047591
SNP_P4_182353_40229	NW_004518195.1	Scaffold3514	40229	AA	GG	1947047593
SNP_P4_182354_40258	NW_004518195.1	Scaffold3514	40258	AA	TT	1947047595
SNP_P4_182355_40276	NW_004518195.1	Scaffold3514	40276	CC	GG	1947047597
SNP_P4_182356_40284	NW_004518195.1	Scaffold3514	40284	AA	CC	1947047599
SNP_P4_182357_40295	NW_004518195.1	Scaffold3514	40295	GG	CC	1947047601
SNP_P4_182358_40387	NW_004518195.1	Scaffold3514	40387	TT	GG	1947047602
SNP_P4_182359_40405	NW_004518195.1	Scaffold3514	40405	TT	AA	1947047604
SNP_P4_182360_40406	NW_004518195.1	Scaffold3514	40406	TT	AA	1947047607
SNP_P4_182361_40469	NW_004518195.1	Scaffold3514	40469	AA	GG	1947047609
SNP_P4_182362_40644	NW_004518195.1	Scaffold3514	40644	AA	GG	1947047611
SNP_P4_182364_41258	NW_004518195.1	Scaffold3514	41258	AA	GG	1947047613
SNP_P4_182365_41317	NW_004518195.1	Scaffold3514	41317	GG	AA	1947047615
SNP_P4_182366_41337	NW_004518195.1	Scaffold3514	41337	TT	GG	1947047617
SNP_P4_182367_47702	NW_004518195.1	Scaffold3514	47702	GG	AA	1947047619
SNP_P4_182368_47732	NW_004518195.1	Scaffold3514	47732	GG	AA	1947047621
SNP_P4_182369_47969	NW_004518195.1	Scaffold3514	47969	CC	TT	1947047623
SNP_P4_182370_47992	NW_004518195.1	Scaffold3514	47992	CC	TT	1947047625
SNP_P4_182371_48163	NW_004518195.1	Scaffold3514	48163	AA	GG	1947047626
SNP_P4_182372_48342	NW_004518195.1	Scaffold3514	48342	GG	AA	1947047628
SNP_P4_182373_48363	NW_004518195.1	Scaffold3514	48363	CC	TT	1947047630
SNP_P4_182374_48444	NW_004518195.1	Scaffold3514	48444	AA	GG	1947047632
SNP_P4_182375_48454	NW_004518195.1	Scaffold3514	48454	GG	TT	1947047634

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_182377_48696	NW_004518195.1	Scaffold3514	48696	TT	CC	1947047638
SNP_P4_182378_48698	NW_004518195.1	Scaffold3514	48698	TT	CC	1947047640
SNP_P4_182379_48700	NW_004518195.1	Scaffold3514	48700	TT	GG	1947047642
SNP_P4_182380_48747	NW_004518195.1	Scaffold3514	48747	CC	TT	1947047644
SNP_P4_182381_454	NW_004518197.1	Scaffold3516	454	AA	GG	1947047646
SNP_P4_182382_509	NW_004518197.1	Scaffold3516	509	CC	TT	1947047648
SNP_P4_182383_582	NW_004518197.1	Scaffold3516	582	AA	GG	1947047649
SNP_P4_182384_1202	NW_004518197.1	Scaffold3516	1202	TT	CC	1947047651
SNP_P4_182385_602	NW_004518198.1	Scaffold3517	602	TT	CC	1947047653
SNP_P4_182386_250	NW_004518200.1	Scaffold3520	250	CC	TT	1947047655
SNP_P4_182387_595	NW_004518200.1	Scaffold3520	595	CC	AA	1947047657
SNP_P4_182388_602	NW_004518200.1	Scaffold3520	602	CC	GG	1947047659
SNP_P4_182389_837	NW_004518200.1	Scaffold3520	837	AA	GG	1947047661
SNP_P4_182390_1550	NW_004518200.1	Scaffold3520	1550	GG	TT	1947047663
SNP_P4_182391_1856	NW_004518200.1	Scaffold3520	1856	AA	TT	1947047665
SNP_P4_182392_2466	NW_004518200.1	Scaffold3520	2466	TT	CC	1947047667
SNP_P4_182393_3254	NW_004518200.1	Scaffold3520	3254	AA	TT	1947047668
SNP_P4_182394_4015	NW_004518200.1	Scaffold3520	4015	AA	TT	1947047670
SNP_P4_182395_4199	NW_004518200.1	Scaffold3520	4199	TT	CC	1947047672
SNP_P4_182396_4333	NW_004518200.1	Scaffold3520	4333	AA	GG	1947047674
SNP_P4_182397_4374	NW_004518200.1	Scaffold3520	4374	AA	CC	1947047676
SNP_P4_182398_4505	NW_004518200.1	Scaffold3520	4505	GG	AA	1947047678
SNP_P4_182399_4861	NW_004518200.1	Scaffold3520	4861	AA	TT	1947047680
SNP_P4_182401_5411	NW_004518200.1	Scaffold3520	5411	GG	TT	1947047682
SNP_P4_182402_5744	NW_004518200.1	Scaffold3520	5744	AA	CC	1947047684
SNP_P4_182403_5898	NW_004518200.1	Scaffold3520	5898	CC	TT	1947047686
SNP_P4_182404_6112	NW_004518200.1	Scaffold3520	6112	GG	AA	1947047688
SNP_P4_182405_6348	NW_004518200.1	Scaffold3520	6348	AA	GG	1947047690
SNP_P4_182406_7558	NW_004518200.1	Scaffold3520	7558	CC	TT	1947047692
SNP_P4_182407_7596	NW_004518200.1	Scaffold3520	7596	GG	AA	1947047694
SNP_P4_182408_10136	NW_004518200.1	Scaffold3520	10136	GG	AA	1947047696
SNP_P4_182409_51276	NW_004518200.1	Scaffold3520	51276	GG	AA	1947047698
SNP_P4_182410_51297	NW_004518200.1	Scaffold3520	51297	TT	AA	1947047700
SNP_P4_182411_51566	NW_004518200.1	Scaffold3520	51566	AA	GG	1947047702
SNP_P4_182412_51577	NW_004518200.1	Scaffold3520	51577	GG	AA	1947047704
SNP_P4_182413_57645	NW_004518200.1	Scaffold3520	57645	GG	AA	1947047706
SNP_P4_182414_729	NW_004518206.1	Scaffold3527	729	AA	GG	1947047708
SNP_P4_182415_744	NW_004518206.1	Scaffold3527	744	TT	AA	1947047710
SNP_P4_182416_804	NW_004518206.1	Scaffold3527	804	GG	TT	1947047711
SNP_P4_182417_1175	NW_004518206.1	Scaffold3527	1175	GG	CC	1947047713
SNP_P4_182418_739	NW_004518208.1	Scaffold3529	739	TT	CC	1947047715

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_182420_989	NW_004518208.1	Scaffold3529	989	TT	CC	1947047719
SNP_P4_182421_2505	NW_004518208.1	Scaffold3529	2505	TT	GG	1947047721
SNP_P4_182422_2647	NW_004518208.1	Scaffold3529	2647	GG	TT	1947047723
SNP_P4_182423_2836	NW_004518208.1	Scaffold3529	2836	AA	CC	1947047725
SNP_P4_182424_2837	NW_004518208.1	Scaffold3529	2837	TT	AA	1947047727
SNP_P4_182425_2856	NW_004518208.1	Scaffold3529	2856	CC	GG	1947047729
SNP_P4_182427_5875	NW_004518208.1	Scaffold3529	5875	GG	CC	1947047731
SNP_P4_182428_10983	NW_004518208.1	Scaffold3529	10983	TT	GG	1947047733
SNP_P4_182429_11942	NW_004518208.1	Scaffold3529	11942	CC	TT	1947047735
SNP_P4_182430_11956	NW_004518208.1	Scaffold3529	11956	AA	TT	1947047736
SNP_P4_182432_18319	NW_004518208.1	Scaffold3529	18319	GG	AA	1947047738
SNP_P4_182433_18428	NW_004518208.1	Scaffold3529	18428	TT	AA	1947047740
SNP_P4_182434_18560	NW_004518208.1	Scaffold3529	18560	AA	GG	1947047742
SNP_P4_182435_18585	NW_004518208.1	Scaffold3529	18585	AA	GG	1947047744
SNP_P4_182436_18863	NW_004518208.1	Scaffold3529	18863	AA	GG	1947047746
SNP_P4_182437_20301	NW_004518208.1	Scaffold3529	20301	TT	CC	1947047748
SNP_P4_182438_20486	NW_004518208.1	Scaffold3529	20486	TT	AA	1947047750
SNP_P4_182439_20488	NW_004518208.1	Scaffold3529	20488	TT	GG	1947047752
SNP_P4_182440_20637	NW_004518208.1	Scaffold3529	20637	TT	AA	1947047754
SNP_P4_182441_20742	NW_004518208.1	Scaffold3529	20742	TT	GG	1947047756
SNP_P4_182442_20777	NW_004518208.1	Scaffold3529	20777	TT	CC	1947047758
SNP_P4_182443_20779	NW_004518208.1	Scaffold3529	20779	AA	GG	1947047760
SNP_P4_182444_20874	NW_004518208.1	Scaffold3529	20874	GG	AA	1947047762
SNP_P4_182445_20877	NW_004518208.1	Scaffold3529	20877	GG	AA	1947047764
SNP_P4_182446_20919	NW_004518208.1	Scaffold3529	20919	AA	CC	1947047766
SNP_P4_182447_21145	NW_004518208.1	Scaffold3529	21145	GG	AA	1947047768
SNP_P4_182448_21149	NW_004518208.1	Scaffold3529	21149	CC	TT	1947047769
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SNP_P4_182450_23428	NW_004518208.1	Scaffold3529	23428	TT	CC	1947047773
SNP_P4_182451_23445	NW_004518208.1	Scaffold3529	23445	TT	GG	1947047775
SNP_P4_182452_23903	NW_004518208.1	Scaffold3529	23903	GG	AA	1947047777
SNP_P4_182453_23952	NW_004518208.1	Scaffold3529	23952	AA	GG	1947047779
SNP_P4_182454_23978	NW_004518208.1	Scaffold3529	23978	AA	CC	1947047781
SNP_P4_182455_24025	NW_004518208.1	Scaffold3529	24025	TT	AA	1947047783
SNP_P4_182456_24036	NW_004518208.1	Scaffold3529	24036	GG	TT	1947047785
SNP_P4_182457_48	NW_004518210.1	Scaffold3532	48	TT	GG	1947047787
SNP_P4_182458_53	NW_004518213.1	Scaffold3535	53	GG	TT	1947047788
SNP_P4_182459_87	NW_004518213.1	Scaffold3535	87	AA	CC	1947047789
SNP_P4_182460_147	NW_004518213.1	Scaffold3535	147	CC	TT	1947047790
SNP_P4_182461_262	NW_004518213.1	Scaffold3535	262	CC	TT	1947047791
SNP_P4_182462_265	NW_004518213.1	Scaffold3535	265	TT	CC	1947047792

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_182464_3870	NW_004518216.1	Scaffold3539	3870	GG	AA	1947047794
SNP_P4_182465_4267	NW_004518216.1	Scaffold3539	4267	TT	GG	1947047795
SNP_P4_182466_5431	NW_004518216.1	Scaffold3539	5431	CC	TT	1947047796
SNP_P4_182467_5592	NW_004518216.1	Scaffold3539	5592	AA	GG	1947047797
SNP_P4_182468_5799	NW_004518216.1	Scaffold3539	5799	AA	GG	1947047798
SNP_P4_182469_5803	NW_004518216.1	Scaffold3539	5803	AA	CC	1947047799
SNP_P4_182471_658	NW_004518219.1	Scaffold3542	658	AA	TT	1947047800
SNP_P4_182472_720	NW_004518219.1	Scaffold3542	720	AA	TT	1947047801
SNP_P4_182473_7268	NW_004518219.1	Scaffold3542	7268	AA	TT	1947047802
SNP_P4_182474_7275	NW_004518219.1	Scaffold3542	7275	AA	GG	1947047803
SNP_P4_182475_20843	NW_004518219.1	Scaffold3542	20843	CC	TT	1947047804
SNP_P4_182476_20862	NW_004518219.1	Scaffold3542	20862	AA	GG	1947047805
SNP_P4_182477_20887	NW_004518219.1	Scaffold3542	20887	TT	CC	1947047806
SNP_P4_182478_20968	NW_004518219.1	Scaffold3542	20968	AA	GG	1947047807
SNP_P4_182479_21000	NW_004518219.1	Scaffold3542	21000	TT	CC	1947047808
SNP_P4_182480_21086	NW_004518219.1	Scaffold3542	21086	TT	CC	1947047809
SNP_P4_182481_21087	NW_004518219.1	Scaffold3542	21087	TT	CC	1947047810
SNP_P4_182482_21093	NW_004518219.1	Scaffold3542	21093	AA	GG	1947047811
SNP_P4_182483_21124	NW_004518219.1	Scaffold3542	21124	AA	CC	1947047812
SNP_P4_182484_21190	NW_004518219.1	Scaffold3542	21190	GG	AA	1947047813
SNP_P4_182485_21194	NW_004518219.1	Scaffold3542	21194	AA	GG	1947047814
SNP_P4_182486_21220	NW_004518219.1	Scaffold3542	21220	TT	CC	1947047815
SNP_P4_182487_21321	NW_004518219.1	Scaffold3542	21321	TT	CC	1947047816
SNP_P4_182488_21322	NW_004518219.1	Scaffold3542	21322	TT	CC	1947047817
SNP_P4_182489_21353	NW_004518219.1	Scaffold3542	21353	TT	CC	1947047818
SNP_P4_182490_21365	NW_004518219.1	Scaffold3542	21365	TT	CC	1947047819
SNP_P4_182491_21420	NW_004518219.1	Scaffold3542	21420	TT	CC	1947047820
SNP_P4_182492_21439	NW_004518219.1	Scaffold3542	21439	TT	CC	1947047821
SNP_P4_182493_21453	NW_004518219.1	Scaffold3542	21453	AA	GG	1947047822
SNP_P4_182494_21458	NW_004518219.1	Scaffold3542	21458	TT	CC	1947047823
SNP_P4_182495_21526	NW_004518219.1	Scaffold3542	21526	AA	TT	1947047824
SNP_P4_182496_21541	NW_004518219.1	Scaffold3542	21541	AA	CC	1947047825
SNP_P4_182497_21563	NW_004518219.1	Scaffold3542	21563	AA	TT	1947047826
SNP_P4_182498_21565	NW_004518219.1	Scaffold3542	21565	GG	TT	1947047827
SNP_P4_182499_21588	NW_004518219.1	Scaffold3542	21588	CC	GG	1947047828
SNP_P4_182500_21609	NW_004518219.1	Scaffold3542	21609	AA	TT	1947047829
SNP_P4_182501_21634	NW_004518219.1	Scaffold3542	21634	GG	AA	1947047830
SNP_P4_182502_21699	NW_004518219.1	Scaffold3542	21699	CC	AA	1947047831
SNP_P4_182503_21716	NW_004518219.1	Scaffold3542	21716	GG	AA	1947047832
SNP_P4_182504_21748	NW_004518219.1	Scaffold3542	21748	AA	GG	1947047834
SNP_P4_182505_21802	NW_004518219.1	Scaffold3542	21802	GG	AA	1947047836

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_182506_21840	NW_004518219.1	Scaffold3542	21840	GG	AA	1947047838
SNP_P4_182507_21872	NW_004518219.1	Scaffold3542	21872	TT	AA	1947047839
SNP_P4_182508_21932	NW_004518219.1	Scaffold3542	21932	GG	TT	1947047841
SNP_P4_182509_22033	NW_004518219.1	Scaffold3542	22033	CC	AA	1947047843
SNP_P4_182510_22048	NW_004518219.1	Scaffold3542	22048	GG	TT	1947047845
SNP_P4_182511_22086	NW_004518219.1	Scaffold3542	22086	TT	CC	1947047847
SNP_P4_182512_22494	NW_004518219.1	Scaffold3542	22494	GG	CC	1947047849
SNP_P4_182513_22509	NW_004518219.1	Scaffold3542	22509	GG	CC	1947047851
SNP_P4_182514_23411	NW_004518219.1	Scaffold3542	23411	TT	CC	1947047853
SNP_P4_182515_23414	NW_004518219.1	Scaffold3542	23414	TT	GG	1947047855
SNP_P4_182516_23589	NW_004518219.1	Scaffold3542	23589	TT	CC	1947047857
SNP_P4_182517_23615	NW_004518219.1	Scaffold3542	23615	AA	GG	1947047859
SNP_P4_182518_23616	NW_004518219.1	Scaffold3542	23616	AA	CC	1947047861
SNP_P4_182519_23625	NW_004518219.1	Scaffold3542	23625	CC	TT	1947047863
SNP_P4_182520_23646	NW_004518219.1	Scaffold3542	23646	TT	GG	1947047865
SNP_P4_182523_24752	NW_004518219.1	Scaffold3542	24752	GG	AA	1947047867
SNP_P4_182524_24758	NW_004518219.1	Scaffold3542	24758	TT	CC	1947047869
SNP_P4_182525_24827	NW_004518219.1	Scaffold3542	24827	TT	CC	1947047871
SNP_P4_182526_24874	NW_004518219.1	Scaffold3542	24874	AA	CC	1947047873
SNP_P4_182527_24875	NW_004518219.1	Scaffold3542	24875	AA	GG	1947047875
SNP_P4_182528_24882	NW_004518219.1	Scaffold3542	24882	TT	CC	1947047877
SNP_P4_182529_24941	NW_004518219.1	Scaffold3542	24941	TT	CC	1947047879
SNP_P4_182530_24992	NW_004518219.1	Scaffold3542	24992	GG	CC	1947047881
SNP_P4_182533_33932	NW_004518219.1	Scaffold3542	33932	CC	GG	1947047883
SNP_P4_182534_33954	NW_004518219.1	Scaffold3542	33954	TT	CC	1947047885
SNP_P4_182535_33956	NW_004518219.1	Scaffold3542	33956	TT	CC	1947047887
SNP_P4_182536_34058	NW_004518219.1	Scaffold3542	34058	AA	CC	1947047889
SNP_P4_182537_34060	NW_004518219.1	Scaffold3542	34060	TT	GG	1947047891
SNP_P4_182538_34061	NW_004518219.1	Scaffold3542	34061	AA	GG	1947047893
SNP_P4_182539_34064	NW_004518219.1	Scaffold3542	34064	AA	GG	1947047895
SNP_P4_182540_34079	NW_004518219.1	Scaffold3542	34079	TT	AA	1947047897
SNP_P4_182541_34225	NW_004518219.1	Scaffold3542	34225	GG	TT	1947047899
SNP_P4_182542_34245	NW_004518219.1	Scaffold3542	34245	TT	CC	1947047901
SNP_P4_182543_34248	NW_004518219.1	Scaffold3542	34248	AA	TT	1947047902
SNP_P4_182544_34278	NW_004518219.1	Scaffold3542	34278	CC	AA	1947047904
SNP_P4_182545_34334	NW_004518219.1	Scaffold3542	34334	TT	GG	1947047907
SNP_P4_182546_34337	NW_004518219.1	Scaffold3542	34337	AA	GG	1947047908
SNP_P4_182547_34366	NW_004518219.1	Scaffold3542	34366	AA	GG	1947047910
SNP_P4_182548_34501	NW_004518219.1	Scaffold3542	34501	AA	TT	1947047912
SNP_P4_182549_34523	NW_004518219.1	Scaffold3542	34523	TT	GG	1947047914
SNP_P4_182550_34619	NW_004518219.1	Scaffold3542	34619	GG	TT	1947047916
SNP_P4_182551_34628	NW_004518219.1	Scaffold3542	34628	TT	CC	1947047918

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_182552_34683	NW_004518219.1	Scaffold3542	34683	AA	CC	1947047920
SNP_P4_182553_34695	NW_004518219.1	Scaffold3542	34695	AA	TT	1947047922
SNP_P4_182554_34700	NW_004518219.1	Scaffold3542	34700	TT	CC	1947047924
SNP_P4_182555_199	NW_004518222.1	Scaffold3545	199	TT	AA	1947047926
SNP_P4_182556_367	NW_004518222.1	Scaffold3545	367	TT	CC	1947047928
SNP_P4_182557_349	NW_004518225.1	Scaffold3549	349	AA	CC	1947047930
SNP_P4_182558_851	NW_004518225.1	Scaffold3549	851	TT	AA	1947047931
SNP_P4_182559_391	NW_004518228.1	Scaffold3555	391	TT	AA	1947047933
SNP_P4_182560_469	NW_004518228.1	Scaffold3555	469	AA	GG	1947047935
SNP_P4_182561_549	NW_004518228.1	Scaffold3555	549	AA	GG	1947047937
SNP_P4_182562_633	NW_004518228.1	Scaffold3555	633	AA	TT	1947047939
SNP_P4_182563_743	NW_004518228.1	Scaffold3555	743	TT	GG	1947047941
SNP_P4_182564_979	NW_004518228.1	Scaffold3555	979	GG	AA	1947047943
SNP_P4_182565_2179	NW_004518229.1	Scaffold3557	2179	TT	AA	1947047945
SNP_P4_182566_2201	NW_004518229.1	Scaffold3557	2201	GG	AA	1947047947
SNP_P4_182567_5526	NW_004518229.1	Scaffold3557	5526	GG	TT	1947047949
SNP_P4_182568_5557	NW_004518229.1	Scaffold3557	5557	CC	AA	1947047951
SNP_P4_182569_15560	NW_004518229.1	Scaffold3557	15560	AA	GG	1947047953
SNP_P4_182570_324	NW_004518232.1	Scaffold3562	324	GG	CC	1947047955
SNP_P4_182571_792	NW_004518232.1	Scaffold3562	792	TT	AA	1947047957
SNP_P4_182573_1827	NW_004518232.1	Scaffold3562	1827	CC	GG	1947047959
SNP_P4_182574_983	NW_004518235.1	Scaffold3565	983	TT	CC	1947047961
SNP_P4_182575_994	NW_004518235.1	Scaffold3565	994	AA	CC	1947047963
SNP_P4_182577_1029	NW_004518235.1	Scaffold3565	1029	TT	CC	1947047964
SNP_P4_182578_1101	NW_004518235.1	Scaffold3565	1101	GG	AA	1947047966
SNP_P4_182579_1106	NW_004518235.1	Scaffold3565	1106	AA	GG	1947047968
SNP_P4_182580_1113	NW_004518235.1	Scaffold3565	1113	CC	AA	1947047970
SNP_P4_182581_748	NW_004518236.1	Scaffold3569	748	CC	AA	1947047972
SNP_P4_182582_1802	NW_004518244.1	Scaffold3581	1802	CC	TT	1947047974
SNP_P4_182583_121	NW_004518247.1	Scaffold3585	121	TT	CC	1947047976
SNP_P4_182584_136	NW_004518247.1	Scaffold3585	136	TT	GG	1947047978
SNP_P4_182585_156	NW_004518247.1	Scaffold3585	156	TT	AA	1947047980
SNP_P4_182586_267	NW_004518247.1	Scaffold3585	267	AA	GG	1947047982
SNP_P4_182587_5312	NW_004518249.1	Scaffold3588	5312	TT	CC	1947047984
SNP_P4_182588_5459	NW_004518249.1	Scaffold3588	5459	TT	CC	1947047986
SNP_P4_182589_236	NW_004518250.1	Scaffold3589	236	AA	GG	1947047988
SNP_P4_182590_317	NW_004518250.1	Scaffold3589	317	GG	AA	1947047990
SNP_P4_182591_487	NW_004518250.1	Scaffold3589	487	CC	AA	1947047992
SNP_P4_182592_498	NW_004518250.1	Scaffold3589	498	TT	CC	1947047994
SNP_P4_182593_505	NW_004518250.1	Scaffold3589	505	AA	GG	1947047995
SNP_P4_182594_579	NW_004518250.1	Scaffold3589	579	CC	TT	1947047997
SNP_P4_182595_641	NW_004518250.1	Scaffold3589	641	CC	TT	1947047999

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_182596_937	NW_004518250.1	Scaffold3589	937	AA	CC	1947048001
SNP_P4_182597_12628	NW_004518252.1	Scaffold3593	12628	AA	GG	1947048003
SNP_P4_182598_12685	NW_004518252.1	Scaffold3593	12685	CC	GG	1947048005
SNP_P4_182599_14607	NW_004518252.1	Scaffold3593	14607	CC	TT	1947048007
SNP_P4_182600_14670	NW_004518252.1	Scaffold3593	14670	TT	CC	1947048009
SNP_P4_182601_14709	NW_004518252.1	Scaffold3593	14709	TT	AA	1947048011
SNP_P4_182602_14717	NW_004518252.1	Scaffold3593	14717	AA	GG	1947048013
SNP_P4_182603_14811	NW_004518252.1	Scaffold3593	14811	GG	CC	1947048015
SNP_P4_182604_14867	NW_004518252.1	Scaffold3593	14867	CC	AA	1947048017
SNP_P4_182605_641	NW_004518253.1	Scaffold3594	641	CC	GG	1947048019
SNP_P4_182606_644	NW_004518253.1	Scaffold3594	644	AA	TT	1947048020
SNP_P4_182607_679	NW_004518253.1	Scaffold3594	679	GG	CC	1947048022
SNP_P4_182609_773	NW_004518253.1	Scaffold3594	773	GG	CC	1947048024
SNP_P4_182610_776	NW_004518253.1	Scaffold3594	776	TT	GG	1947048026
SNP_P4_182611_779	NW_004518253.1	Scaffold3594	779	AA	GG	1947048028
SNP_P4_182612_787	NW_004518253.1	Scaffold3594	787	TT	AA	1947048030
SNP_P4_182613_809	NW_004518253.1	Scaffold3594	809	GG	AA	1947048032
SNP_P4_182614_815	NW_004518253.1	Scaffold3594	815	AA	GG	1947048034
SNP_P4_182615_827	NW_004518253.1	Scaffold3594	827	GG	AA	1947048036
SNP_P4_182616_830	NW_004518253.1	Scaffold3594	830	GG	AA	1947048038
SNP_P4_182617_868	NW_004518253.1	Scaffold3594	868	AA	CC	1947048040
SNP_P4_182618_870	NW_004518253.1	Scaffold3594	870	AA	GG	1947048042
SNP_P4_182619_931	NW_004518253.1	Scaffold3594	931	AA	CC	1947048104
SNP_P4_182621_1251	NW_004518253.1	Scaffold3594	1251	TT	AA	1947048106
SNP_P4_182622_1332	NW_004518253.1	Scaffold3594	1332	CC	GG	1947048108
SNP_P4_182623_1638	NW_004518253.1	Scaffold3594	1638	CC	TT	1947048110
SNP_P4_182624_1822	NW_004518253.1	Scaffold3594	1822	TT	AA	1947048112
SNP_P4_182627_6305	NW_004518253.1	Scaffold3594	6305	TT	CC	1947048114
SNP_P4_182628_6634	NW_004518253.1	Scaffold3594	6634	AA	GG	1947048116
SNP_P4_182629_7787	NW_004518253.1	Scaffold3594	7787	CC	AA	1947048118
SNP_P4_182630_137	NW_004518254.1	Scaffold3596	137	AA	GG	1947048120
SNP_P4_182631_538	NW_004518254.1	Scaffold3596	538	AA	GG	1947048122
SNP_P4_182632_669	NW_004518254.1	Scaffold3596	669	GG	TT	1947048124
SNP_P4_182633_692	NW_004518254.1	Scaffold3596	692	AA	GG	1947048125
SNP_P4_182634_845	NW_004518254.1	Scaffold3596	845	TT	CC	1947048127
SNP_P4_182635_1430	NW_004518254.1	Scaffold3596	1430	AA	GG	1947048129
SNP_P4_182636_1522	NW_004518254.1	Scaffold3596	1522	TT	GG	1947048131
SNP_P4_182637_1559	NW_004518254.1	Scaffold3596	1559	TT	CC	1947048133
SNP_P4_182638_1739	NW_004518254.1	Scaffold3596	1739	AA	GG	1947048135
SNP_P4_182639_1882	NW_004518254.1	Scaffold3596	1882	GG	AA	1947048137
SNP_P4_182640_2260	NW_004518254.1	Scaffold3596	2260	TT	AA	1947048139
SNP_P4_182641_2399	NW_004518254.1	Scaffold3596	2399	GG	AA	1947048141

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_182642_2489	NW_004518254.1	Scaffold3596	2489	CC	AA	1947048143
SNP_P4_182643_2584	NW_004518254.1	Scaffold3596	2584	AA	TT	1947048145
SNP_P4_182644_2642	NW_004518254.1	Scaffold3596	2642	CC	TT	1947048147
SNP_P4_182645_2844	NW_004518254.1	Scaffold3596	2844	GG	AA	1947048149
SNP_P4_182646_2914	NW_004518254.1	Scaffold3596	2914	CC	AA	1947048151
SNP_P4_182647_2923	NW_004518254.1	Scaffold3596	2923	CC	TT	1947048153
SNP_P4_182648_545	NW_004518257.1	Scaffold3599	545	CC	TT	1947048155
SNP_P4_182649_430	NW_004518258.1	Scaffold3600	430	TT	CC	1947048156
SNP_P4_182650_517	NW_004518258.1	Scaffold3600	517	GG	AA	1947048158
SNP_P4_182651_620	NW_004518258.1	Scaffold3600	620	TT	GG	1947048160
SNP_P4_182652_631	NW_004518258.1	Scaffold3600	631	CC	TT	1947048162
SNP_P4_182653_813	NW_004518258.1	Scaffold3600	813	TT	CC	1947048164
SNP_P4_182654_821	NW_004518258.1	Scaffold3600	821	AA	CC	1947048166
SNP_P4_182655_885	NW_004518258.1	Scaffold3600	885	TT	GG	1947048168
SNP_P4_182656_930	NW_004518258.1	Scaffold3600	930	TT	GG	1947048170
SNP_P4_182657_968	NW_004518258.1	Scaffold3600	968	AA	TT	1947048172
SNP_P4_182658_1114	NW_004518258.1	Scaffold3600	1114	AA	GG	1947048174
SNP_P4_182659_1116	NW_004518258.1	Scaffold3600	1116	CC	TT	1947048176
SNP_P4_182660_1143	NW_004518258.1	Scaffold3600	1143	AA	GG	1947048178
SNP_P4_182661_1191	NW_004518258.1	Scaffold3600	1191	GG	AA	1947048180
SNP_P4_182662_1192	NW_004518258.1	Scaffold3600	1192	AA	TT	1947048182
SNP_P4_182663_1203	NW_004518258.1	Scaffold3600	1203	AA	CC	1947048184
SNP_P4_182664_2096	NW_004518258.1	Scaffold3600	2096	GG	TT	1947048186
SNP_P4_182665_2136	NW_004518258.1	Scaffold3600	2136	CC	AA	1947048188
SNP_P4_182666_2312	NW_004518258.1	Scaffold3600	2312	GG	AA	1947048190
SNP_P4_182667_2313	NW_004518258.1	Scaffold3600	2313	GG	TT	1947048192
SNP_P4_182668_3515	NW_004518258.1	Scaffold3600	3515	GG	CC	1947048194
SNP_P4_182669_3647	NW_004518258.1	Scaffold3600	3647	AA	GG	1947048196
SNP_P4_182670_3685	NW_004518258.1	Scaffold3600	3685	GG	AA	1947048198
SNP_P4_182671_3747	NW_004518258.1	Scaffold3600	3747	GG	AA	1947048200
SNP_P4_182672_3927	NW_004518258.1	Scaffold3600	3927	AA	GG	1947048202
SNP_P4_182673_3964	NW_004518258.1	Scaffold3600	3964	GG	CC	1947048204
SNP_P4_182674_4185	NW_004518258.1	Scaffold3600	4185	TT	CC	1947048205
SNP_P4_182675_366	NW_004518259.1	Scaffold3601	366	GG	TT	1947048207
SNP_P4_182676_1983	NW_004518260.1	Scaffold3602	1983	CC	TT	1947048209
SNP_P4_182677_1996	NW_004518260.1	Scaffold3602	1996	CC	TT	1947048211
SNP_P4_182678_2012	NW_004518260.1	Scaffold3602	2012	AA	GG	1947048213
SNP_P4_182679_2026	NW_004518260.1	Scaffold3602	2026	GG	TT	1947048215
SNP_P4_182680_3865	NW_004518260.1	Scaffold3602	3865	TT	AA	1947048217
SNP_P4_182681_3906	NW_004518260.1	Scaffold3602	3906	AA	TT	1947048219
SNP_P4_182682_3914	NW_004518260.1	Scaffold3602	3914	AA	TT	1947048221
SNP_P4_182683_1038	NW_004518262.1	Scaffold3604	1038	TT	AA	1947048223

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_182685_1100	NW_004518262.1	Scaffold3604	1100	AA	CC	1947048227
SNP_P4_182686_185	NW_004518271.1	Scaffold3615	185	AA	GG	1947048229
SNP_P4_182687_204	NW_004518271.1	Scaffold3615	204	CC	TT	1947048231
SNP_P4_182688_210	NW_004518271.1	Scaffold3615	210	AA	GG	1947048233
SNP_P4_182689_242	NW_004518271.1	Scaffold3615	242	AA	CC	1947048235
SNP_P4_182690_602	NW_004518271.1	Scaffold3615	602	GG	AA	1947048237
SNP_P4_182691_724	NW_004518271.1	Scaffold3615	724	AA	TT	1947048239
SNP_P4_182692_218	NW_004518272.1	Scaffold3616	218	AA	GG	1947048241
SNP_P4_182693_318	NW_004518272.1	Scaffold3616	318	TT	CC	1947048243
SNP_P4_182694_346	NW_004518272.1	Scaffold3616	346	CC	GG	1947048245
SNP_P4_182695_452	NW_004518272.1	Scaffold3616	452	AA	GG	1947048247
SNP_P4_182696_504	NW_004518272.1	Scaffold3616	504	AA	GG	1947048249
SNP_P4_182697_2141	NW_004518275.1	Scaffold3619	2141	TT	CC	1947048250
SNP_P4_182698_2144	NW_004518275.1	Scaffold3619	2144	AA	GG	1947048252
SNP_P4_182699_64	NW_004518277.1	Scaffold3621	64	TT	CC	1947048254
SNP_P4_182700_67	NW_004518277.1	Scaffold3621	67	TT	CC	1947048256
SNP_P4_182701_100	NW_004518277.1	Scaffold3621	100	CC	GG	1947048258
SNP_P4_182702_4470	NW_004518277.1	Scaffold3621	4470	TT	CC	1947048260
SNP_P4_182703_67	NW_004518282.1	Scaffold3628	67	AA	GG	1947048262
SNP_P4_182704_379	NW_004518282.1	Scaffold3628	379	TT	CC	1947048264
SNP_P4_182705_931	NW_004518282.1	Scaffold3628	931	TT	CC	1947048266
SNP_P4_182706_935	NW_004518282.1	Scaffold3628	935	AA	TT	1947048268
SNP_P4_182707_956	NW_004518282.1	Scaffold3628	956	CC	TT	1947048270
SNP_P4_182708_1066	NW_004518282.1	Scaffold3628	1066	CC	GG	1947048271
SNP_P4_182709_1105	NW_004518282.1	Scaffold3628	1105	AA	GG	1947048273
SNP_P4_182710_1199	NW_004518282.1	Scaffold3628	1199	TT	CC	1947048275
SNP_P4_182711_1397	NW_004518282.1	Scaffold3628	1397	GG	TT	1947048277
SNP_P4_182712_1974	NW_004518282.1	Scaffold3628	1974	TT	CC	1947048279
SNP_P4_182713_1975	NW_004518282.1	Scaffold3628	1975	AA	TT	1947048281
SNP_P4_182714_2145	NW_004518282.1	Scaffold3628	2145	CC	TT	1947048283
SNP_P4_182715_2169	NW_004518282.1	Scaffold3628	2169	TT	AA	1947048285
SNP_P4_182716_2251	NW_004518282.1	Scaffold3628	2251	CC	TT	1947048287
SNP_P4_182717_2306	NW_004518282.1	Scaffold3628	2306	AA	GG	1947048289
SNP_P4_182718_4405	NW_004518282.1	Scaffold3628	4405	TT	AA	1947048291
SNP_P4_182719_162	NW_004518283.1	Scaffold3631	162	CC	TT	1947048293
SNP_P4_182720_165	NW_004518283.1	Scaffold3631	165	TT	CC	1947048295
SNP_P4_182721_8650	NW_004518283.1	Scaffold3631	8650	TT	AA	1947048297
SNP_P4_182722_8953	NW_004518283.1	Scaffold3631	8953	AA	TT	1947048299
SNP_P4_182723_9513	NW_004518283.1	Scaffold3631	9513	AA	GG	1947048301
SNP_P4_182724_9540	NW_004518283.1	Scaffold3631	9540	AA	TT	1947048303
SNP_P4_182725_9611	NW_004518283.1	Scaffold3631	9611	AA	CC	1947048305

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_182727_9672	NW_004518283.1	Scaffold3631	9672	GG	CC	1947048308
SNP_P4_182728_9863	NW_004518283.1	Scaffold3631	9863	GG	AA	1947048310
SNP_P4_182729_11132	NW_004518283.1	Scaffold3631	11132	GG	TT	1947048312
SNP_P4_182730_11589	NW_004518283.1	Scaffold3631	11589	AA	GG	1947048314
SNP_P4_182731_11732	NW_004518283.1	Scaffold3631	11732	GG	AA	1947048316
SNP_P4_182732_11792	NW_004518283.1	Scaffold3631	11792	CC	TT	1947048318
SNP_P4_182733_12198	NW_004518283.1	Scaffold3631	12198	CC	GG	1947048320
SNP_P4_182734_12389	NW_004518283.1	Scaffold3631	12389	AA	GG	1947048322
SNP_P4_182735_13283	NW_004518283.1	Scaffold3631	13283	GG	AA	1947048324
SNP_P4_182736_13350	NW_004518283.1	Scaffold3631	13350	AA	GG	1947048326
SNP_P4_182737_64	NW_004518284.1	Scaffold3632	64	AA	CC	1947048328
SNP_P4_182738_67	NW_004518284.1	Scaffold3632	67	TT	CC	1947048330
SNP_P4_182739_232	NW_004518284.1	Scaffold3632	232	AA	TT	1947048332
SNP_P4_182740_252	NW_004518284.1	Scaffold3632	252	TT	AA	1947048334
SNP_P4_182741_998	NW_004518284.1	Scaffold3632	998	TT	CC	1947048336
SNP_P4_182742_11075	NW_004518286.1	Scaffold3637	11075	AA	TT	1947048338
SNP_P4_182743_11092	NW_004518286.1	Scaffold3637	11092	TT	AA	1947048340
SNP_P4_182744_11693	NW_004518286.1	Scaffold3637	11693	CC	GG	1947048342
SNP_P4_182745_13128	NW_004518286.1	Scaffold3637	13128	TT	CC	1947048344
SNP_P4_182747_349	NW_004518287.1	Scaffold3639	349	GG	CC	1947048346
SNP_P4_182748_942	NW_004518288.1	Scaffold3640	942	CC	GG	1947048348
SNP_P4_182749_1100	NW_004518289.1	Scaffold3643	1100	GG	AA	1947048350
SNP_P4_182750_1140	NW_004518289.1	Scaffold3643	1140	GG	AA	1947048352
SNP_P4_182751_1207	NW_004518289.1	Scaffold3643	1207	AA	TT	1947048353
SNP_P4_182752_1440	NW_004518289.1	Scaffold3643	1440	GG	AA	1947048355
SNP_P4_182753_1443	NW_004518289.1	Scaffold3643	1443	TT	CC	1947048357
SNP_P4_182754_1456	NW_004518289.1	Scaffold3643	1456	GG	CC	1947048359
SNP_P4_182755_1473	NW_004518289.1	Scaffold3643	1473	TT	CC	1947048361
SNP_P4_182756_1494	NW_004518289.1	Scaffold3643	1494	GG	TT	1947048363
SNP_P4_182757_1569	NW_004518289.1	Scaffold3643	1569	GG	AA	1947048365
SNP_P4_182758_22120	NW_004518289.1	Scaffold3643	22120	GG	CC	1947048367
SNP_P4_182759_22286	NW_004518289.1	Scaffold3643	22286	AA	GG	1947048369
SNP_P4_182760_22322	NW_004518289.1	Scaffold3643	22322	AA	TT	1947048371
SNP_P4_182761_22476	NW_004518289.1	Scaffold3643	22476	CC	TT	1947048373
SNP_P4_182762_22602	NW_004518289.1	Scaffold3643	22602	TT	AA	1947048375
SNP_P4_182764_22979	NW_004518289.1	Scaffold3643	22979	GG	AA	1947048377
SNP_P4_182765_23175	NW_004518289.1	Scaffold3643	23175	TT	CC	1947048379
SNP_P4_182766_24126	NW_004518289.1	Scaffold3643	24126	GG	TT	1947048381
SNP_P4_182767_24587	NW_004518289.1	Scaffold3643	24587	CC	AA	1947048383
SNP_P4_182768_24588	NW_004518289.1	Scaffold3643	24588	GG	AA	1947048385
SNP_P4_182769_24614	NW_004518289.1	Scaffold3643	24614	CC	TT	1947048387

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_182771_646	NW_004518290.1	Scaffold3644	646	TT	GG	1947048391
SNP_P4_182772_764	NW_004518290.1	Scaffold3644	764	GG	AA	1947048393
SNP_P4_182773_774	NW_004518290.1	Scaffold3644	774	GG	AA	1947048395
SNP_P4_182774_776	NW_004518290.1	Scaffold3644	776	CC	TT	1947048396
SNP_P4_182775_879	NW_004518290.1	Scaffold3644	879	GG	AA	1947048398
SNP_P4_182776_933	NW_004518290.1	Scaffold3644	933	TT	GG	1947048400
SNP_P4_182777_988	NW_004518290.1	Scaffold3644	988	GG	CC	1947048402
SNP_P4_182778_1031	NW_004518290.1	Scaffold3644	1031	TT	AA	1947048404
SNP_P4_182779_1065	NW_004518290.1	Scaffold3644	1065	TT	AA	1947048406
SNP_P4_182780_1225	NW_004518290.1	Scaffold3644	1225	CC	GG	1947048408
SNP_P4_182781_1226	NW_004518290.1	Scaffold3644	1226	CC	TT	1947048410
SNP_P4_182782_1266	NW_004518290.1	Scaffold3644	1266	CC	TT	1947048412
SNP_P4_182783_1289	NW_004518290.1	Scaffold3644	1289	AA	TT	1947048414
SNP_P4_182784_1318	NW_004518290.1	Scaffold3644	1318	GG	CC	1947048416
SNP_P4_182785_1323	NW_004518290.1	Scaffold3644	1323	TT	AA	1947048418
SNP_P4_182786_1408	NW_004518290.1	Scaffold3644	1408	GG	CC	1947048420
SNP_P4_182787_1409	NW_004518290.1	Scaffold3644	1409	CC	TT	1947048422
SNP_P4_182788_1464	NW_004518290.1	Scaffold3644	1464	AA	TT	1947048424
SNP_P4_182789_1551	NW_004518290.1	Scaffold3644	1551	GG	TT	1947048426
SNP_P4_182790_1951	NW_004518290.1	Scaffold3644	1951	TT	AA	1947048428
SNP_P4_182791_1978	NW_004518290.1	Scaffold3644	1978	CC	AA	1947048430
SNP_P4_182792_1983	NW_004518290.1	Scaffold3644	1983	TT	CC	1947048432
SNP_P4_182793_2004	NW_004518290.1	Scaffold3644	2004	AA	CC	1947048434
SNP_P4_182794_2020	NW_004518290.1	Scaffold3644	2020	AA	TT	1947048436
SNP_P4_182795_2062	NW_004518290.1	Scaffold3644	2062	AA	CC	1947048438
SNP_P4_182796_2069	NW_004518290.1	Scaffold3644	2069	TT	CC	1947048440
SNP_P4_182797_2149	NW_004518290.1	Scaffold3644	2149	GG	TT	1947048442
SNP_P4_182798_2167	NW_004518290.1	Scaffold3644	2167	AA	TT	1947048444
SNP_P4_182799_2193	NW_004518290.1	Scaffold3644	2193	GG	TT	1947048446
SNP_P4_182800_2492	NW_004518290.1	Scaffold3644	2492	AA	TT	1947048448
SNP_P4_182801_2556	NW_004518290.1	Scaffold3644	2556	AA	GG	1947048450
SNP_P4_182802_2572	NW_004518290.1	Scaffold3644	2572	CC	TT	1947048452
SNP_P4_182803_2597	NW_004518290.1	Scaffold3644	2597	TT	CC	1947048454
SNP_P4_182804_2604	NW_004518290.1	Scaffold3644	2604	GG	AA	1947048456
SNP_P4_182805_367	NW_004518291.1	Scaffold3645	367	CC	AA	1947048458
SNP_P4_182806_392	NW_004518291.1	Scaffold3645	392	AA	GG	1947048460
SNP_P4_182807_401	NW_004518291.1	Scaffold3645	401	GG	AA	1947048462
SNP_P4_182808_403	NW_004518291.1	Scaffold3645	403	AA	CC	1947048464
SNP_P4_182809_7607	NW_004518291.1	Scaffold3645	7607	CC	TT	1947048466
SNP_P4_182810_23279	NW_004518291.1	Scaffold3645	23279	TT	GG	1947048468
SNP_P4_182811_23638	NW_004518291.1	Scaffold3645	23638	AA	GG	1947048470

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_182813_6136	NW_004518292.1	Scaffold3651	6136	CC	TT	1947048474
SNP_P4_182814_6227	NW_004518292.1	Scaffold3651	6227	AA	CC	1947048476
SNP_P4_182815_6228	NW_004518292.1	Scaffold3651	6228	TT	CC	1947048478
SNP_P4_182816_6238	NW_004518292.1	Scaffold3651	6238	GG	TT	1947048480
SNP_P4_182817_6262	NW_004518292.1	Scaffold3651	6262	TT	AA	1947048482
SNP_P4_182818_6310	NW_004518292.1	Scaffold3651	6310	CC	TT	1947048484
SNP_P4_182819_6624	NW_004518292.1	Scaffold3651	6624	TT	GG	1947048486
SNP_P4_182820_6663	NW_004518292.1	Scaffold3651	6663	TT	CC	1947048488
SNP_P4_182821_6749	NW_004518292.1	Scaffold3651	6749	TT	CC	1947048490
SNP_P4_182822_6750	NW_004518292.1	Scaffold3651	6750	TT	CC	1947048492
SNP_P4_182823_1204	NW_004518297.1	Scaffold3656	1204	GG	CC	1947048494
SNP_P4_182824_532	NW_004518298.1	Scaffold3657	532	AA	TT	1947048496
SNP_P4_182825_561	NW_004518298.1	Scaffold3657	561	CC	GG	1947048498
SNP_P4_182826_627	NW_004518298.1	Scaffold3657	627	TT	CC	1947048500
SNP_P4_182827_809	NW_004518298.1	Scaffold3657	809	TT	CC	1947048502
SNP_P4_182829_952	NW_004518298.1	Scaffold3657	952	CC	TT	1947048504
SNP_P4_182830_988	NW_004518298.1	Scaffold3657	988	CC	TT	1947048506
SNP_P4_182831_1964	NW_004518299.1	Scaffold3658	1964	CC	AA	1947048508
SNP_P4_182832_2649	NW_004518299.1	Scaffold3658	2649	CC	TT	1947048510
SNP_P4_182833_1379	NW_004518300.1	Scaffold3659	1379	AA	GG	1947048512
SNP_P4_182834_1381	NW_004518300.1	Scaffold3659	1381	AA	TT	1947048514
SNP_P4_182835_1414	NW_004518300.1	Scaffold3659	1414	CC	TT	1947048516
SNP_P4_182836_1563	NW_004518300.1	Scaffold3659	1563	TT	CC	1947048518
SNP_P4_182837_1768	NW_004518300.1	Scaffold3659	1768	AA	GG	1947048520
SNP_P4_182838_2196	NW_004518300.1	Scaffold3659	2196	CC	AA	1947048522
SNP_P4_182840_6777	NW_004518300.1	Scaffold3659	6777	AA	GG	1947048524
SNP_P4_182841_6924	NW_004518300.1	Scaffold3659	6924	GG	AA	1947048526
SNP_P4_182842_6938	NW_004518300.1	Scaffold3659	6938	TT	GG	1947048528
SNP_P4_182843_6953	NW_004518300.1	Scaffold3659	6953	CC	TT	1947048530
SNP_P4_182844_7146	NW_004518300.1	Scaffold3659	7146	CC	TT	1947048532
SNP_P4_182845_7194	NW_004518300.1	Scaffold3659	7194	AA	CC	1947048534
SNP_P4_182846_7338	NW_004518300.1	Scaffold3659	7338	AA	TT	1947048536
SNP_P4_182847_7350	NW_004518300.1	Scaffold3659	7350	TT	GG	1947048538
SNP_P4_182848_7383	NW_004518300.1	Scaffold3659	7383	GG	AA	1947048540
SNP_P4_182849_7385	NW_004518300.1	Scaffold3659	7385	GG	AA	1947048542
SNP_P4_182850_7453	NW_004518300.1	Scaffold3659	7453	TT	AA	1947048544
SNP_P4_182851_7474	NW_004518300.1	Scaffold3659	7474	TT	AA	1947048546
SNP_P4_182852_7541	NW_004518300.1	Scaffold3659	7541	AA	TT	1947048548
SNP_P4_182853_7644	NW_004518300.1	Scaffold3659	7644	TT	AA	1947048550
SNP_P4_182854_7675	NW_004518300.1	Scaffold3659	7675	GG	CC	1947048552
SNP_P4_182855_7693	NW_004518300.1	Scaffold3659	7693	CC	AA	1947048554

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_182857_175	NW_004518301.1	Scaffold3660	175	GG	AA	1947048558
SNP_P4_182858_478	NW_004518301.1	Scaffold3660	478	CC	TT	1947048560
SNP_P4_182859_479	NW_004518301.1	Scaffold3660	479	CC	AA	1947048562
SNP_P4_182860_481	NW_004518301.1	Scaffold3660	481	AA	CC	1947048564
SNP_P4_182861_589	NW_004518301.1	Scaffold3660	589	CC	GG	1947048566
SNP_P4_182862_631	NW_004518301.1	Scaffold3660	631	TT	CC	1947048568
SNP_P4_182863_635	NW_004518301.1	Scaffold3660	635	TT	AA	1947048570
SNP_P4_182864_723	NW_004518301.1	Scaffold3660	723	GG	AA	1947048572
SNP_P4_182865_853	NW_004518301.1	Scaffold3660	853	GG	AA	1947048574
SNP_P4_182866_912	NW_004518301.1	Scaffold3660	912	AA	GG	1947048576
SNP_P4_182867_962	NW_004518301.1	Scaffold3660	962	TT	CC	1947048578
SNP_P4_182868_967	NW_004518301.1	Scaffold3660	967	TT	CC	1947048580
SNP_P4_182869_1017	NW_004518301.1	Scaffold3660	1017	TT	CC	1947048582
SNP_P4_182870_1039	NW_004518301.1	Scaffold3660	1039	CC	GG	1947048584
SNP_P4_182871_1968	NW_004518302.1	Scaffold3661	1968	TT	AA	1947048586
SNP_P4_182872_3946	NW_004518304.1	Scaffold3663	3946	TT	AA	1947048588
SNP_P4_182874_4144	NW_004518304.1	Scaffold3663	4144	TT	AA	1947048590
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SNP_P4_182877_4366	NW_004518304.1	Scaffold3663	4366	GG	AA	1947048596
SNP_P4_182878_4375	NW_004518304.1	Scaffold3663	4375	GG	AA	1947048598
SNP_P4_182879_4421	NW_004518304.1	Scaffold3663	4421	AA	TT	1947048600
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SNP_P4_182884_4862	NW_004518304.1	Scaffold3663	4862	TT	GG	1947048609
SNP_P4_182885_4889	NW_004518304.1	Scaffold3663	4889	CC	GG	1947048611
SNP_P4_182886_5463	NW_004518304.1	Scaffold3663	5463	GG	AA	1947048613
SNP_P4_182887_5491	NW_004518304.1	Scaffold3663	5491	TT	CC	1947048615
SNP_P4_182888_5724	NW_004518304.1	Scaffold3663	5724	TT	CC	1947048617
SNP_P4_182889_6965	NW_004518304.1	Scaffold3663	6965	AA	GG	1947048619
SNP_P4_182890_7382	NW_004518304.1	Scaffold3663	7382	CC	AA	1947048621
SNP_P4_182891_9038	NW_004518304.1	Scaffold3663	9038	CC	TT	1947048623
SNP_P4_182892_13952	NW_004518304.1	Scaffold3663	13952	TT	GG	1947048625
SNP_P4_182893_14148	NW_004518304.1	Scaffold3663	14148	TT	CC	1947048627
SNP_P4_182894_14165	NW_004518304.1	Scaffold3663	14165	TT	GG	1947048629
SNP_P4_182895_3384	NW_004518305.1	Scaffold3664	3384	CC	AA	1947048631
SNP_P4_182896_3642	NW_004518305.1	Scaffold3664	3642	TT	AA	1947048633
SNP_P4_182897_3716	NW_004518305.1	Scaffold3664	3716	GG	AA	1947048635
SNP_P4_182898_3742	NW_004518305.1	Scaffold3664	3742	CC	AA	1947048637
SNP_P4_182899_274	NW_004518306.1	Scaffold3665	274	CC	GG	1947048639

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_182902_2091	NW_004518307.1	Scaffold3666	2091	GG	AA	1947048643
SNP_P4_182903_2489	NW_004518307.1	Scaffold3666	2489	AA	GG	1947048645
SNP_P4_182904_2620	NW_004518307.1	Scaffold3666	2620	CC	TT	1947048647
SNP_P4_182905_2914	NW_004518307.1	Scaffold3666	2914	AA	GG	1947048649
SNP_P4_182906_3176	NW_004518307.1	Scaffold3666	3176	GG	AA	1947048651
SNP_P4_182907_3177	NW_004518307.1	Scaffold3666	3177	AA	TT	1947048653
SNP_P4_182908_3488	NW_004518307.1	Scaffold3666	3488	TT	AA	1947048655
SNP_P4_182909_3490	NW_004518307.1	Scaffold3666	3490	TT	GG	1947048657
SNP_P4_182910_6281	NW_004518307.1	Scaffold3666	6281	CC	TT	1947048659
SNP_P4_182911_6332	NW_004518307.1	Scaffold3666	6332	GG	AA	1947048661
SNP_P4_182912_1116	NW_004518308.1	Scaffold3668	1116	CC	GG	1947048663
SNP_P4_182914_221	NW_004518311.1	Scaffold3672	221	AA	CC	1947048665
SNP_P4_182916_1388	NW_004518312.1	Scaffold3673	1388	TT	CC	1947048668
SNP_P4_182917_784	NW_004518314.1	Scaffold3675	784	AA	TT	1947048670
SNP_P4_182918_788	NW_004518314.1	Scaffold3675	788	AA	GG	1947048672
SNP_P4_182919_107	NW_004518315.1	Scaffold3676	107	GG	AA	1947048674
SNP_P4_182920_111	NW_004518315.1	Scaffold3676	111	GG	AA	1947048676
SNP_P4_182921_558	NW_004518315.1	Scaffold3676	558	GG	AA	1947048678
SNP_P4_182922_602	NW_004518315.1	Scaffold3676	602	GG	AA	1947048680
SNP_P4_182923_710	NW_004518315.1	Scaffold3676	710	AA	CC	1947048682
SNP_P4_182924_3287	NW_004518315.1	Scaffold3676	3287	CC	TT	1947048684
SNP_P4_182925_3317	NW_004518315.1	Scaffold3676	3317	AA	GG	1947048686
SNP_P4_182926_3749	NW_004518315.1	Scaffold3676	3749	CC	AA	1947048688
SNP_P4_182927_3750	NW_004518315.1	Scaffold3676	3750	CC	AA	1947048690
SNP_P4_182928_4111	NW_004518315.1	Scaffold3676	4111	AA	CC	1947048692
SNP_P4_182929_4219	NW_004518315.1	Scaffold3676	4219	CC	GG	1947048694
SNP_P4_182930_4700	NW_004518315.1	Scaffold3676	4700	CC	TT	1947048696
SNP_P4_182931_4718	NW_004518315.1	Scaffold3676	4718	AA	GG	1947048698
SNP_P4_182932_4770	NW_004518315.1	Scaffold3676	4770	AA	GG	1947048700
SNP_P4_182933_4826	NW_004518315.1	Scaffold3676	4826	GG	AA	1947048702
SNP_P4_182934_4915	NW_004518315.1	Scaffold3676	4915	TT	AA	1947048704
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SNP_P4_182936_5183	NW_004518315.1	Scaffold3676	5183	GG	CC	1947048708
SNP_P4_182937_5217	NW_004518315.1	Scaffold3676	5217	AA	TT	1947048710
SNP_P4_182938_5243	NW_004518315.1	Scaffold3676	5243	GG	TT	1947048712
SNP_P4_182939_5443	NW_004518315.1	Scaffold3676	5443	AA	GG	1947048714
SNP_P4_182940_7570	NW_004518315.1	Scaffold3676	7570	TT	AA	1947048716
SNP_P4_182941_7587	NW_004518315.1	Scaffold3676	7587	CC	TT	1947048718
SNP_P4_182942_8038	NW_004518315.1	Scaffold3676	8038	GG	TT	1947048720
SNP_P4_182943_8057	NW_004518315.1	Scaffold3676	8057	AA	TT	1947048722
SNP_P4_182944_8088	NW_004518315.1	Scaffold3676	8088	TT	AA	1947048724

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_182945_8234	NW_004518315.1	Scaffold3676	8234	TT	AA	1947048726
SNP_P4_182946_8263	NW_004518315.1	Scaffold3676	8263	TT	CC	1947048728
SNP_P4_182947_9688	NW_004518315.1	Scaffold3676	9688	CC	AA	1947048730
SNP_P4_182948_9692	NW_004518315.1	Scaffold3676	9692	TT	AA	1947048732
SNP_P4_182949_9780	NW_004518315.1	Scaffold3676	9780	AA	GG	1947048735
SNP_P4_182950_11553	NW_004518315.1	Scaffold3676	11553	CC	TT	1947048737
SNP_P4_182951_12109	NW_004518315.1	Scaffold3676	12109	CC	TT	1947048739
SNP_P4_182952_12640	NW_004518315.1	Scaffold3676	12640	TT	AA	1947048741
SNP_P4_182953_12722	NW_004518315.1	Scaffold3676	12722	GG	TT	1947048743
SNP_P4_182954_12782	NW_004518315.1	Scaffold3676	12782	TT	CC	1947048745
SNP_P4_182955_12787	NW_004518315.1	Scaffold3676	12787	TT	GG	1947048747
SNP_P4_182956_13028	NW_004518315.1	Scaffold3676	13028	TT	CC	1947048749
SNP_P4_182957_13043	NW_004518315.1	Scaffold3676	13043	CC	AA	1947048751
SNP_P4_182958_13087	NW_004518315.1	Scaffold3676	13087	AA	GG	1947048753
SNP_P4_182959_13171	NW_004518315.1	Scaffold3676	13171	GG	CC	1947048755
SNP_P4_182960_277	NW_004518318.1	Scaffold3681	277	CC	TT	1947048757
SNP_P4_182961_421	NW_004518318.1	Scaffold3681	421	AA	TT	1947048759
SNP_P4_182962_520	NW_004518318.1	Scaffold3681	520	AA	CC	1947048761
SNP_P4_182963_612	NW_004518318.1	Scaffold3681	612	TT	CC	1947048763
SNP_P4_182964_627	NW_004518318.1	Scaffold3681	627	TT	CC	1947048765
SNP_P4_182965_651	NW_004518318.1	Scaffold3681	651	TT	CC	1947048767
SNP_P4_182966_1292	NW_004518319.1	Scaffold3682	1292	TT	CC	1947048769
SNP_P4_182967_103	NW_004518322.1	Scaffold3685	103	CC	TT	1947048771
SNP_P4_182968_441	NW_004518322.1	Scaffold3685	441	AA	GG	1947048773
SNP_P4_182969_516	NW_004518322.1	Scaffold3685	516	GG	CC	1947048775
SNP_P4_182970_523	NW_004518322.1	Scaffold3685	523	CC	GG	1947048777
SNP_P4_182971_570	NW_004518322.1	Scaffold3685	570	TT	CC	1947048779
SNP_P4_182972_571	NW_004518322.1	Scaffold3685	571	AA	CC	1947048781
SNP_P4_182973_573	NW_004518322.1	Scaffold3685	573	AA	GG	1947048783
SNP_P4_182974_839	NW_004518322.1	Scaffold3685	839	TT	AA	1947048785
SNP_P4_182975_847	NW_004518322.1	Scaffold3685	847	AA	GG	1947048787
SNP_P4_182976_856	NW_004518322.1	Scaffold3685	856	CC	GG	1947048789
SNP_P4_182977_51691	NW_004518323.1	Scaffold3687	51691	CC	TT	1947048791
SNP_P4_182978_61480	NW_004518323.1	Scaffold3687	61480	CC	TT	1947048793
SNP_P4_182979_61488	NW_004518323.1	Scaffold3687	61488	CC	AA	1947048795
SNP_P4_182980_62926	NW_004518323.1	Scaffold3687	62926	GG	AA	1947048798
SNP_P4_182981_63782	NW_004518323.1	Scaffold3687	63782	CC	TT	1947048800
SNP_P4_182982_65444	NW_004518323.1	Scaffold3687	65444	TT	AA	1947048802
SNP_P4_182983_65449	NW_004518323.1	Scaffold3687	65449	GG	TT	1947048804
SNP_P4_182984_65879	NW_004518323.1	Scaffold3687	65879	AA	GG	1947048806
SNP_P4_182985_66253	NW_004518323.1	Scaffold3687	66253	TT	CC	1947048808
SNP_P4_182986_69267	NW_004518323.1	Scaffold3687	69267	CC	TT	1947048810

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_182990_102595	NW_004518323.1	Scaffold3687	102595	CC	TT	1947048814
SNP_P4_182991_105910	NW_004518323.1	Scaffold3687	105910	CC	AA	1947048816
SNP_P4_182992_119420	NW_004518323.1	Scaffold3687	119420	AA	CC	1947048818
SNP_P4_182993_120028	NW_004518323.1	Scaffold3687	120028	CC	TT	1947048820
SNP_P4_182994_131148	NW_004518323.1	Scaffold3687	131148	AA	GG	1947048822
SNP_P4_182995_131646	NW_004518323.1	Scaffold3687	131646	TT	CC	1947048824
SNP_P4_182996_131735	NW_004518323.1	Scaffold3687	131735	CC	TT	1947048826
SNP_P4_182997_132037	NW_004518323.1	Scaffold3687	132037	GG	AA	1947048828
SNP_P4_182998_132043	NW_004518323.1	Scaffold3687	132043	AA	GG	1947048830
SNP_P4_182999_132048	NW_004518323.1	Scaffold3687	132048	CC	AA	1947048832
SNP_P4_183000_132100	NW_004518323.1	Scaffold3687	132100	TT	CC	1947048834
SNP_P4_183001_132123	NW_004518323.1	Scaffold3687	132123	GG	AA	1947048836
SNP_P4_183002_132136	NW_004518323.1	Scaffold3687	132136	CC	TT	1947048838
SNP_P4_183003_132166	NW_004518323.1	Scaffold3687	132166	CC	TT	1947048840
SNP_P4_183004_132283	NW_004518323.1	Scaffold3687	132283	TT	CC	1947048842
SNP_P4_183005_132322	NW_004518323.1	Scaffold3687	132322	GG	TT	1947048844
SNP_P4_183006_137861	NW_004518323.1	Scaffold3687	137861	AA	GG	1947048846
SNP_P4_183007_140695	NW_004518323.1	Scaffold3687	140695	TT	GG	1947048848
SNP_P4_183008_140724	NW_004518323.1	Scaffold3687	140724	GG	AA	1947048850
SNP_P4_183009_140752	NW_004518323.1	Scaffold3687	140752	TT	CC	1947048852
SNP_P4_183010_140756	NW_004518323.1	Scaffold3687	140756	CC	TT	1947048854
SNP_P4_183011_140766	NW_004518323.1	Scaffold3687	140766	GG	AA	1947048856
SNP_P4_183012_140799	NW_004518323.1	Scaffold3687	140799	GG	AA	1947048858
SNP_P4_183013_140806	NW_004518323.1	Scaffold3687	140806	TT	CC	1947048860
SNP_P4_183014_140922	NW_004518323.1	Scaffold3687	140922	CC	AA	1947048862
SNP_P4_183015_140994	NW_004518323.1	Scaffold3687	140994	TT	GG	1947048864
SNP_P4_183016_142931	NW_004518323.1	Scaffold3687	142931	GG	AA	1947048866
SNP_P4_183017_443	NW_004518325.1	Scaffold3689	443	TT	AA	1947048868
SNP_P4_183018_456	NW_004518325.1	Scaffold3689	456	GG	TT	1947048870
SNP_P4_183019_635	NW_004518325.1	Scaffold3689	635	AA	GG	1947048872
SNP_P4_183020_15460	NW_004518325.1	Scaffold3689	15460	TT	CC	1947048874
SNP_P4_183021_15535	NW_004518325.1	Scaffold3689	15535	GG	AA	1947048876
SNP_P4_183022_15592	NW_004518325.1	Scaffold3689	15592	GG	CC	1947048878
SNP_P4_183023_15659	NW_004518325.1	Scaffold3689	15659	CC	AA	1947048880
SNP_P4_183024_15787	NW_004518325.1	Scaffold3689	15787	CC	TT	1947048882
SNP_P4_183025_16055	NW_004518325.1	Scaffold3689	16055	GG	AA	1947048884
SNP_P4_183026_16103	NW_004518325.1	Scaffold3689	16103	TT	CC	1947048886
SNP_P4_183027_16157	NW_004518325.1	Scaffold3689	16157	CC	GG	1947048888
SNP_P4_183029_16351	NW_004518325.1	Scaffold3689	16351	GG	AA	1947048890
SNP_P4_183030_304	NW_004518326.1	Scaffold3690	304	AA	TT	1947048892
SNP_P4_183031_817	NW_004518329.1	Scaffold3693	817	CC	TT	1947048894

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_183033_1000	NW_004518329.1	Scaffold3693	1000	CC	TT	1947048898
SNP_P4_183034_1037	NW_004518329.1	Scaffold3693	1037	TT	CC	1947048900
SNP_P4_183035_1069	NW_004518329.1	Scaffold3693	1069	TT	AA	1947048902
SNP_P4_183036_1076	NW_004518329.1	Scaffold3693	1076	AA	GG	1947048904
SNP_P4_183037_20673	NW_004518329.1	Scaffold3693	20673	TT	CC	1947048906
SNP_P4_183038_35113	NW_004518329.1	Scaffold3693	35113	AA	GG	1947048908
SNP_P4_183039_35115	NW_004518329.1	Scaffold3693	35115	CC	TT	1947048910
SNP_P4_183040_35116	NW_004518329.1	Scaffold3693	35116	AA	GG	1947048912
SNP_P4_183041_35159	NW_004518329.1	Scaffold3693	35159	AA	GG	1947048914
SNP_P4_183042_35163	NW_004518329.1	Scaffold3693	35163	AA	GG	1947048916
SNP_P4_183043_35185	NW_004518329.1	Scaffold3693	35185	CC	TT	1947048918
SNP_P4_183044_35206	NW_004518329.1	Scaffold3693	35206	TT	GG	1947048920
SNP_P4_183045_35215	NW_004518329.1	Scaffold3693	35215	CC	TT	1947048922
SNP_P4_183046_35221	NW_004518329.1	Scaffold3693	35221	TT	CC	1947048924
SNP_P4_183047_35349	NW_004518329.1	Scaffold3693	35349	CC	TT	1947048926
SNP_P4_183048_35495	NW_004518329.1	Scaffold3693	35495	GG	AA	1947048928
SNP_P4_183049_35650	NW_004518329.1	Scaffold3693	35650	GG	AA	1947048931
SNP_P4_183050_35699	NW_004518329.1	Scaffold3693	35699	TT	CC	1947048933
SNP_P4_183051_40794	NW_004518329.1	Scaffold3693	40794	TT	CC	1947048935
SNP_P4_183052_41497	NW_004518329.1	Scaffold3693	41497	AA	CC	1947048937
SNP_P4_183053_68745	NW_004518329.1	Scaffold3693	68745	GG	AA	1947048939
SNP_P4_183054_81068	NW_004518329.1	Scaffold3693	81068	CC	TT	1947048941
SNP_P4_183055_471	NW_004518332.1	Scaffold3696	471	AA	GG	1947048943
SNP_P4_183056_475	NW_004518332.1	Scaffold3696	475	TT	GG	1947048945
SNP_P4_183057_492	NW_004518332.1	Scaffold3696	492	AA	TT	1947048948
SNP_P4_183058_2577	NW_004518334.1	Scaffold3698	2577	CC	TT	1947048950
SNP_P4_183059_2581	NW_004518334.1	Scaffold3698	2581	TT	CC	1947048952
SNP_P4_183060_2849	NW_004518334.1	Scaffold3698	2849	CC	AA	1947048954
SNP_P4_183061_426	NW_004518335.1	Scaffold3700	426	CC	TT	1947048956
SNP_P4_183062_652	NW_004518335.1	Scaffold3700	652	GG	CC	1947048958
SNP_P4_183063_657	NW_004518335.1	Scaffold3700	657	CC	AA	1947048960
SNP_P4_183064_724	NW_004518335.1	Scaffold3700	724	CC	TT	1947048962
SNP_P4_183065_739	NW_004518335.1	Scaffold3700	739	TT	AA	1947048964
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SNP_P4_183067_1007	NW_004518335.1	Scaffold3700	1007	AA	GG	1947048968
SNP_P4_183068_1065	NW_004518335.1	Scaffold3700	1065	TT	AA	1947048970
SNP_P4_183069_1111	NW_004518335.1	Scaffold3700	1111	TT	AA	1947048972
SNP_P4_183070_1121	NW_004518335.1	Scaffold3700	1121	CC	TT	1947048974
SNP_P4_183071_395	NW_004518339.1	Scaffold3705	395	GG	TT	1947048976
SNP_P4_183072_492	NW_004518339.1	Scaffold3705	492	TT	CC	1947048978
SNP_P4_183073_558	NW_004518339.1	Scaffold3705	558	GG	AA	1947048980

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SNP_P4_183075_675	NW_004518339.1	Scaffold3705	675	GG	AA	1947048984
SNP_P4_183076_719	NW_004518339.1	Scaffold3705	719	TT	CC	1947048986
SNP_P4_183077_739	NW_004518339.1	Scaffold3705	739	CC	AA	1947048988
SNP_P4_183078_3950	NW_004518339.1	Scaffold3705	3950	AA	GG	1947048990
SNP_P4_183080_4125	NW_004518339.1	Scaffold3705	4125	AA	TT	1947048992
SNP_P4_183081_4141	NW_004518339.1	Scaffold3705	4141	AA	GG	1947048994
SNP_P4_183082_4404	NW_004518339.1	Scaffold3705	4404	AA	GG	1947048996
SNP_P4_183083_103	NW_004518341.1	Scaffold3707	103	AA	GG	1947048998
SNP_P4_183084_123	NW_004518341.1	Scaffold3707	123	CC	TT	1947049000
SNP_P4_183085_763	NW_004518341.1	Scaffold3707	763	AA	TT	1947049002
SNP_P4_183086_800	NW_004518341.1	Scaffold3707	800	CC	GG	1947049004
SNP_P4_183087_893	NW_004518341.1	Scaffold3707	893	CC	TT	1947049006
SNP_P4_183088_1590	NW_004518341.1	Scaffold3707	1590	TT	AA	1947049008
SNP_P4_183089_1593	NW_004518341.1	Scaffold3707	1593	TT	GG	1947049010
SNP_P4_183090_1612	NW_004518341.1	Scaffold3707	1612	CC	TT	1947049012
SNP_P4_183091_1693	NW_004518341.1	Scaffold3707	1693	CC	TT	1947049014
SNP_P4_183092_1715	NW_004518341.1	Scaffold3707	1715	GG	AA	1947049016
SNP_P4_183093_1733	NW_004518341.1	Scaffold3707	1733	GG	TT	1947049018
SNP_P4_183094_1735	NW_004518341.1	Scaffold3707	1735	AA	TT	1947049020
SNP_P4_183095_1736	NW_004518341.1	Scaffold3707	1736	AA	TT	1947049022
SNP_P4_183096_1737	NW_004518341.1	Scaffold3707	1737	AA	TT	1947049024
SNP_P4_183097_1742	NW_004518341.1	Scaffold3707	1742	TT	AA	1947049026
SNP_P4_183098_1882	NW_004518341.1	Scaffold3707	1882	CC	AA	1947049028
SNP_P4_183099_4037	NW_004518341.1	Scaffold3707	4037	CC	TT	1947049030
SNP_P4_183100_986	NW_004518342.1	Scaffold3708	986	GG	AA	1947049032
SNP_P4_183101_1331	NW_004518342.1	Scaffold3708	1331	AA	TT	1947049034
SNP_P4_183102_595	NW_004518344.1	Scaffold3714	595	TT	CC	1947049036
SNP_P4_183103_642	NW_004518344.1	Scaffold3714	642	TT	CC	1947049038
SNP_P4_183104_687	NW_004518344.1	Scaffold3714	687	TT	GG	1947049040
SNP_P4_183105_696	NW_004518344.1	Scaffold3714	696	AA	GG	1947049042
SNP_P4_183106_699	NW_004518344.1	Scaffold3714	699	AA	CC	1947049044
SNP_P4_183107_844	NW_004518344.1	Scaffold3714	844	GG	AA	1947049046
SNP_P4_183108_854	NW_004518344.1	Scaffold3714	854	AA	TT	1947049048
SNP_P4_183109_879	NW_004518344.1	Scaffold3714	879	TT	CC	1947049050
SNP_P4_183110_887	NW_004518344.1	Scaffold3714	887	TT	AA	1947049052
SNP_P4_183111_896	NW_004518344.1	Scaffold3714	896	CC	AA	1947049054
SNP_P4_183112_924	NW_004518344.1	Scaffold3714	924	GG	AA	1947049056
SNP_P4_183113_1308	NW_004518347.1	Scaffold3718	1308	TT	AA	1947049058
SNP_P4_183114_1128	NW_004518351.1	Scaffold3722	1128	CC	TT	1947049060
SNP_P4_183115_1303	NW_004518353.1	Scaffold3724	1303	AA	TT	1947049062
SNP_P4_183116_1311	NW_004518353.1	Scaffold3724	1311	TT	GG	1947049064

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_183117_80349	NW_004518353.1	Scaffold3724	80349	GG	TT	1947049066
SNP_P4_183118_88233	NW_004518353.1	Scaffold3724	88233	TT	CC	1947049068
SNP_P4_183119_88598	NW_004518353.1	Scaffold3724	88598	CC	AA	1947049069
SNP_P4_183120_88652	NW_004518353.1	Scaffold3724	88652	AA	GG	1947049071
SNP_P4_183121_89059	NW_004518353.1	Scaffold3724	89059	TT	CC	1947049073
SNP_P4_183122_90971	NW_004518353.1	Scaffold3724	90971	TT	AA	1947049075
SNP_P4_183123_90972	NW_004518353.1	Scaffold3724	90972	TT	GG	1947049077
SNP_P4_183124_103393	NW_004518353.1	Scaffold3724	103393	GG	AA	1947049079
SNP_P4_183125_316	NW_004518357.1	Scaffold3728	316	CC	TT	1947049081
SNP_P4_183126_317	NW_004518357.1	Scaffold3728	317	CC	TT	1947049083
SNP_P4_183127_413	NW_004518357.1	Scaffold3728	413	AA	GG	1947049085
SNP_P4_183128_419	NW_004518357.1	Scaffold3728	419	AA	TT	1947049087
SNP_P4_183129_426	NW_004518357.1	Scaffold3728	426	GG	CC	1947049089
SNP_P4_183130_465	NW_004518357.1	Scaffold3728	465	GG	AA	1947049091
SNP_P4_183131_489	NW_004518357.1	Scaffold3728	489	GG	AA	1947049093
SNP_P4_183132_499	NW_004518357.1	Scaffold3728	499	GG	TT	1947049095
SNP_P4_183133_7184	NW_004518357.1	Scaffold3728	7184	CC	AA	1947049097
SNP_P4_183134_454	NW_004518359.1	Scaffold3731	454	CC	TT	1947049099
SNP_P4_183135_502	NW_004518359.1	Scaffold3731	502	CC	TT	1947049101
SNP_P4_183136_792	NW_004518359.1	Scaffold3731	792	TT	CC	1947049103
SNP_P4_183137_834	NW_004518359.1	Scaffold3731	834	GG	TT	1947049105
SNP_P4_183138_852	NW_004518359.1	Scaffold3731	852	AA	TT	1947049107
SNP_P4_183139_892	NW_004518359.1	Scaffold3731	892	TT	GG	1947049109
SNP_P4_183140_894	NW_004518359.1	Scaffold3731	894	TT	AA	1947049111
SNP_P4_183141_897	NW_004518359.1	Scaffold3731	897	GG	TT	1947049113
SNP_P4_183142_915	NW_004518359.1	Scaffold3731	915	TT	GG	1947049115
SNP_P4_183143_921	NW_004518359.1	Scaffold3731	921	GG	AA	1947049117
SNP_P4_183144_930	NW_004518359.1	Scaffold3731	930	GG	TT	1947049119
SNP_P4_183145_945	NW_004518359.1	Scaffold3731	945	AA	TT	1947049120
SNP_P4_183146_951	NW_004518359.1	Scaffold3731	951	GG	AA	1947049122
SNP_P4_183147_966	NW_004518359.1	Scaffold3731	966	TT	GG	1947049124
SNP_P4_183148_976	NW_004518359.1	Scaffold3731	976	GG	AA	1947049125
SNP_P4_183149_980	NW_004518359.1	Scaffold3731	980	AA	TT	1947049127
SNP_P4_183150_64	NW_004518366.1	Scaffold3742	64	GG	AA	1947049129
SNP_P4_183151_102	NW_004518366.1	Scaffold3742	102	GG	CC	1947049131
SNP_P4_183152_123	NW_004518366.1	Scaffold3742	123	GG	AA	1947049133
SNP_P4_183153_146	NW_004518366.1	Scaffold3742	146	TT	AA	1947049135
SNP_P4_183154_207	NW_004518366.1	Scaffold3742	207	TT	AA	1947049137
SNP_P4_183155_217	NW_004518366.1	Scaffold3742	217	AA	CC	1947049139
SNP_P4_183156_374	NW_004518366.1	Scaffold3742	374	TT	CC	1947049141
SNP_P4_183157_405	NW_004518366.1	Scaffold3742	405	AA	TT	1947049143
SNP_P4_183158_439	NW_004518366.1	Scaffold3742	439	AA	GG	1947049145

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_183161_603	NW_004518366.1	Scaffold3742	603	CC	TT	1947049149
SNP_P4_183162_643	NW_004518366.1	Scaffold3742	643	CC	GG	1947049151
SNP_P4_183163_665	NW_004518366.1	Scaffold3742	665	CC	TT	1947049153
SNP_P4_183164_688	NW_004518366.1	Scaffold3742	688	TT	CC	1947049155
SNP_P4_183165_732	NW_004518366.1	Scaffold3742	732	AA	TT	1947049157
SNP_P4_183166_3733	NW_004518366.1	Scaffold3742	3733	CC	AA	1947049159
SNP_P4_183167_3735	NW_004518366.1	Scaffold3742	3735	AA	CC	1947049161
SNP_P4_183168_3790	NW_004518366.1	Scaffold3742	3790	CC	AA	1947049163
SNP_P4_183170_4039	NW_004518366.1	Scaffold3742	4039	GG	CC	1947049165
SNP_P4_183171_4056	NW_004518366.1	Scaffold3742	4056	AA	GG	1947049167
SNP_P4_183172_4088	NW_004518366.1	Scaffold3742	4088	GG	TT	1947049169
SNP_P4_183173_4135	NW_004518366.1	Scaffold3742	4135	AA	TT	1947049171
SNP_P4_183174_4138	NW_004518366.1	Scaffold3742	4138	TT	GG	1947049173
SNP_P4_183175_6425	NW_004518366.1	Scaffold3742	6425	CC	TT	1947049175
SNP_P4_183176_6756	NW_004518366.1	Scaffold3742	6756	CC	TT	1947049177
SNP_P4_183177_10510	NW_004518366.1	Scaffold3742	10510	AA	TT	1947049179
SNP_P4_183178_10935	NW_004518366.1	Scaffold3742	10935	CC	TT	1947049180
SNP_P4_183179_11065	NW_004518366.1	Scaffold3742	11065	AA	CC	1947049181
SNP_P4_183180_11362	NW_004518366.1	Scaffold3742	11362	TT	CC	1947049182
SNP_P4_183181_11373	NW_004518366.1	Scaffold3742	11373	AA	GG	1947049184
SNP_P4_183182_11469	NW_004518366.1	Scaffold3742	11469	TT	AA	1947049186
SNP_P4_183183_11517	NW_004518366.1	Scaffold3742	11517	CC	TT	1947049188
SNP_P4_183184_11682	NW_004518366.1	Scaffold3742	11682	TT	AA	1947049190
SNP_P4_183185_4515	NW_004518368.1	Scaffold3744	4515	CC	TT	1947049192
SNP_P4_183186_4517	NW_004518368.1	Scaffold3744	4517	GG	CC	1947049194
SNP_P4_183187_4552	NW_004518368.1	Scaffold3744	4552	TT	CC	1947049196
SNP_P4_183188_4553	NW_004518368.1	Scaffold3744	4553	AA	TT	1947049198
SNP_P4_183189_4572	NW_004518368.1	Scaffold3744	4572	TT	CC	1947049200
SNP_P4_183190_4666	NW_004518368.1	Scaffold3744	4666	TT	GG	1947049202
SNP_P4_183191_9383	NW_004518368.1	Scaffold3744	9383	TT	AA	1947049204
SNP_P4_183192_9388	NW_004518368.1	Scaffold3744	9388	GG	TT	1947049206
SNP_P4_183193_599	NW_004518369.1	Scaffold3745	599	CC	TT	1947049208
SNP_P4_183194_2877	NW_004518369.1	Scaffold3745	2877	CC	TT	1947049210
SNP_P4_183195_2888	NW_004518369.1	Scaffold3745	2888	CC	GG	1947049212
SNP_P4_183196_3275	NW_004518369.1	Scaffold3745	3275	CC	TT	1947049214
SNP_P4_183197_1390	NW_004518371.1	Scaffold3748	1390	AA	TT	1947049216
SNP_P4_183198_3672	NW_004518371.1	Scaffold3748	3672	CC	TT	1947049218
SNP_P4_183200_6618	NW_004518373.1	Scaffold3750	6618	GG	AA	1947049220
SNP_P4_183201_116	NW_004518379.1	Scaffold3757	116	TT	AA	1947049222
SNP_P4_183202_149	NW_004518379.1	Scaffold3757	149	CC	TT	1947049224
SNP_P4_183203_150	NW_004518379.1	Scaffold3757	150	CC	TT	1947049226

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_183205_234	NW_004518379.1	Scaffold3757	234	AA	GG	1947049230
SNP_P4_183206_537	NW_004518379.1	Scaffold3757	537	CC	AA	1947049232
SNP_P4_183208_3489	NW_004518379.1	Scaffold3757	3489	GG	CC	1947049234
SNP_P4_183209_3975	NW_004518379.1	Scaffold3757	3975	TT	CC	1947049236
SNP_P4_183210_4006	NW_004518379.1	Scaffold3757	4006	TT	GG	1947049238
SNP_P4_183211_4023	NW_004518379.1	Scaffold3757	4023	GG	AA	1947049240
SNP_P4_183212_4046	NW_004518379.1	Scaffold3757	4046	GG	AA	1947049242
SNP_P4_183213_4076	NW_004518379.1	Scaffold3757	4076	AA	GG	1947049244
SNP_P4_183214_4211	NW_004518379.1	Scaffold3757	4211	AA	GG	1947049246
SNP_P4_183215_4215	NW_004518379.1	Scaffold3757	4215	CC	TT	1947049248
SNP_P4_183216_4257	NW_004518379.1	Scaffold3757	4257	TT	GG	1947049250
SNP_P4_183217_4278	NW_004518379.1	Scaffold3757	4278	TT	AA	1947049252
SNP_P4_183218_4426	NW_004518379.1	Scaffold3757	4426	AA	CC	1947049254
SNP_P4_183219_4500	NW_004518379.1	Scaffold3757	4500	CC	TT	1947049256
SNP_P4_183220_5073	NW_004518379.1	Scaffold3757	5073	CC	TT	1947049258
SNP_P4_183221_5315	NW_004518379.1	Scaffold3757	5315	AA	GG	1947049260
SNP_P4_183222_5389	NW_004518379.1	Scaffold3757	5389	CC	AA	1947049262
SNP_P4_183223_5552	NW_004518379.1	Scaffold3757	5552	CC	TT	1947049264
SNP_P4_183224_5553	NW_004518379.1	Scaffold3757	5553	CC	TT	1947049266
SNP_P4_183225_5575	NW_004518379.1	Scaffold3757	5575	CC	TT	1947049268
SNP_P4_183226_5593	NW_004518379.1	Scaffold3757	5593	AA	GG	1947049270
SNP_P4_183227_6774	NW_004518379.1	Scaffold3757	6774	CC	TT	1947049272
SNP_P4_183228_6917	NW_004518379.1	Scaffold3757	6917	TT	CC	1947049274
SNP_P4_183229_6944	NW_004518379.1	Scaffold3757	6944	TT	CC	1947049276
SNP_P4_183230_7043	NW_004518379.1	Scaffold3757	7043	TT	CC	1947049278
SNP_P4_183231_7216	NW_004518379.1	Scaffold3757	7216	GG	CC	1947049280
SNP_P4_183232_7289	NW_004518379.1	Scaffold3757	7289	AA	GG	1947049282
SNP_P4_183233_7352	NW_004518379.1	Scaffold3757	7352	GG	AA	1947049284
SNP_P4_183234_7505	NW_004518379.1	Scaffold3757	7505	TT	GG	1947049286
SNP_P4_183235_7620	NW_004518379.1	Scaffold3757	7620	TT	CC	1947049288
SNP_P4_183236_7663	NW_004518379.1	Scaffold3757	7663	AA	CC	1947049290
SNP_P4_183237_7677	NW_004518379.1	Scaffold3757	7677	TT	GG	1947049292
SNP_P4_183238_7767	NW_004518379.1	Scaffold3757	7767	AA	GG	1947049294
SNP_P4_183239_7897	NW_004518379.1	Scaffold3757	7897	AA	GG	1947049296
SNP_P4_183240_7967	NW_004518379.1	Scaffold3757	7967	AA	GG	1947049298
SNP_P4_183241_9004	NW_004518379.1	Scaffold3757	9004	CC	AA	1947049300
SNP_P4_183242_618	NW_004518383.1	Scaffold3765	618	CC	TT	1947049302
SNP_P4_183243_630	NW_004518383.1	Scaffold3765	630	GG	CC	1947049304
SNP_P4_183244_1282	NW_004518383.1	Scaffold3765	1282	GG	AA	1947049306
SNP_P4_183245_1656	NW_004518383.1	Scaffold3765	1656	GG	CC	1947049308
SNP_P4_183246_1694	NW_004518383.1	Scaffold3765	1694	TT	CC	1947049310

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_183248_1721	NW_004518383.1	Scaffold3765	1721	CC	AA	1947049314
SNP_P4_183249_3527	NW_004518383.1	Scaffold3765	3527	CC	TT	1947049316
SNP_P4_183250_3852	NW_004518383.1	Scaffold3765	3852	TT	CC	1947049318
SNP_P4_183251_3923	NW_004518383.1	Scaffold3765	3923	AA	TT	1947049320
SNP_P4_183252_4170	NW_004518383.1	Scaffold3765	4170	CC	GG	1947049322
SNP_P4_183254_4236	NW_004518383.1	Scaffold3765	4236	CC	GG	1947049324
SNP_P4_183255_44	NW_004518385.1	Scaffold3768	44	CC	AA	1947049326
SNP_P4_183256_60	NW_004518385.1	Scaffold3768	60	AA	GG	1947049328
SNP_P4_183257_64	NW_004518385.1	Scaffold3768	64	GG	AA	1947049330
SNP_P4_183258_67	NW_004518385.1	Scaffold3768	67	AA	GG	1947049332
SNP_P4_183260_6621	NW_004518388.1	Scaffold3771	6621	TT	AA	1947049334
SNP_P4_183261_11360	NW_004518388.1	Scaffold3771	11360	CC	TT	1947049336
SNP_P4_183262_11507	NW_004518388.1	Scaffold3771	11507	TT	CC	1947049338
SNP_P4_183263_11640	NW_004518388.1	Scaffold3771	11640	AA	GG	1947049340
SNP_P4_183264_11843	NW_004518388.1	Scaffold3771	11843	AA	GG	1947049342
SNP_P4_183265_11860	NW_004518388.1	Scaffold3771	11860	CC	AA	1947049344
SNP_P4_183266_12776	NW_004518388.1	Scaffold3771	12776	AA	GG	1947049346
SNP_P4_183267_12777	NW_004518388.1	Scaffold3771	12777	GG	AA	1947049348
SNP_P4_183268_1364	NW_004518389.1	Scaffold3772	1364	TT	AA	1947049350
SNP_P4_183269_260	NW_004518392.1	Scaffold3780	260	GG	AA	1947049352
SNP_P4_183270_7463	NW_004518392.1	Scaffold3780	7463	AA	TT	1947049354
SNP_P4_183271_7553	NW_004518392.1	Scaffold3780	7553	GG	CC	1947049356
SNP_P4_183272_7586	NW_004518392.1	Scaffold3780	7586	GG	CC	1947049358
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SNP_P4_183276_9405	NW_004518392.1	Scaffold3780	9405	CC	AA	1947049362
SNP_P4_183277_9717	NW_004518392.1	Scaffold3780	9717	AA	TT	1947049364
SNP_P4_183278_9746	NW_004518392.1	Scaffold3780	9746	AA	TT	1947049366
SNP_P4_183279_20952	NW_004518392.1	Scaffold3780	20952	CC	TT	1947049368
SNP_P4_183280_21224	NW_004518392.1	Scaffold3780	21224	TT	CC	1947049370
SNP_P4_183281_21225	NW_004518392.1	Scaffold3780	21225	AA	CC	1947049372
SNP_P4_183282_21270	NW_004518392.1	Scaffold3780	21270	AA	TT	1947049374
SNP_P4_183283_21295	NW_004518392.1	Scaffold3780	21295	GG	TT	1947049376
SNP_P4_183284_21539	NW_004518392.1	Scaffold3780	21539	AA	GG	1947049378
SNP_P4_183285_21547	NW_004518392.1	Scaffold3780	21547	CC	GG	1947049380
SNP_P4_183286_21561	NW_004518392.1	Scaffold3780	21561	TT	AA	1947049382
SNP_P4_183287_21588	NW_004518392.1	Scaffold3780	21588	CC	TT	1947049384
SNP_P4_183288_22041	NW_004518392.1	Scaffold3780	22041	TT	CC	1947049386
SNP_P4_183289_1874	NW_004518394.1	Scaffold3784	1874	TT	CC	1947049389
SNP_P4_183290_2010	NW_004518394.1	Scaffold3784	2010	AA	CC	1947049391
SNP_P4_183291_2031	NW_004518394.1	Scaffold3784	2031	TT	CC	1947049393
SNP_P4_183292_2056	NW_004518394.1	Scaffold3784	2056	GG	AA	1947049395

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_183293_2239	NW_004518394.1	Scaffold3784	2239	GG	TT	1947049397
SNP_P4_183295_2894	NW_004518395.1	Scaffold3789	2894	GG	AA	1947049399
SNP_P4_183296_3329	NW_004518395.1	Scaffold3789	3329	CC	AA	1947049401
SNP_P4_183297_3940	NW_004518395.1	Scaffold3789	3940	GG	TT	1947049403
SNP_P4_183298_4222	NW_004518395.1	Scaffold3789	4222	TT	GG	1947049405
SNP_P4_183299_4228	NW_004518395.1	Scaffold3789	4228	AA	GG	1947049407
SNP_P4_183300_5900	NW_004518395.1	Scaffold3789	5900	CC	TT	1947049409
SNP_P4_183301_5928	NW_004518395.1	Scaffold3789	5928	TT	CC	1947049411
SNP_P4_183302_5981	NW_004518395.1	Scaffold3789	5981	AA	TT	1947049413
SNP_P4_183303_6081	NW_004518395.1	Scaffold3789	6081	CC	AA	1947049415
SNP_P4_183304_6120	NW_004518395.1	Scaffold3789	6120	TT	CC	1947049417
SNP_P4_183305_6165	NW_004518395.1	Scaffold3789	6165	AA	GG	1947049419
SNP_P4_183306_6189	NW_004518395.1	Scaffold3789	6189	AA	GG	1947049421
SNP_P4_183307_6309	NW_004518395.1	Scaffold3789	6309	CC	TT	1947049424
SNP_P4_183308_6409	NW_004518395.1	Scaffold3789	6409	CC	AA	1947049427
SNP_P4_183309_6868	NW_004518395.1	Scaffold3789	6868	AA	CC	1947049430
SNP_P4_183310_6871	NW_004518395.1	Scaffold3789	6871	TT	CC	1947049433
SNP_P4_183311_7075	NW_004518395.1	Scaffold3789	7075	TT	CC	1947049436
SNP_P4_183312_509	NW_004518397.1	Scaffold3794	509	AA	CC	1947049439
SNP_P4_183313_585	NW_004518397.1	Scaffold3794	585	CC	AA	1947049442
SNP_P4_183314_2531	NW_004518397.1	Scaffold3794	2531	CC	TT	1947049444
SNP_P4_183315_2660	NW_004518397.1	Scaffold3794	2660	AA	GG	1947049447
SNP_P4_183316_3107	NW_004518397.1	Scaffold3794	3107	GG	AA	1947049449
SNP_P4_183317_6015	NW_004518397.1	Scaffold3794	6015	GG	AA	1947049452
SNP_P4_183318_6972	NW_004518397.1	Scaffold3794	6972	CC	TT	1947049455
SNP_P4_183319_8150	NW_004518397.1	Scaffold3794	8150	TT	CC	1947049458
SNP_P4_183320_8304	NW_004518397.1	Scaffold3794	8304	GG	AA	1947049460
SNP_P4_183321_13554	NW_004518397.1	Scaffold3794	13554	CC	TT	1947049463
SNP_P4_183322_25047	NW_004518397.1	Scaffold3794	25047	CC	TT	1947049465
SNP_P4_183323_29509	NW_004518397.1	Scaffold3794	29509	TT	CC	1947049468
SNP_P4_183324_32049	NW_004518397.1	Scaffold3794	32049	AA	TT	1947049470
SNP_P4_183325_32064	NW_004518397.1	Scaffold3794	32064	TT	AA	1947049472
SNP_P4_183326_32242	NW_004518397.1	Scaffold3794	32242	AA	TT	1947049475
SNP_P4_183328_35616	NW_004518397.1	Scaffold3794	35616	TT	AA	1947049477
SNP_P4_183329_39330	NW_004518397.1	Scaffold3794	39330	AA	GG	1947049479
SNP_P4_183331_41788	NW_004518397.1	Scaffold3794	41788	AA	GG	1947049482
SNP_P4_183332_42994	NW_004518397.1	Scaffold3794	42994	TT	CC	1947049484
SNP_P4_183333_43073	NW_004518397.1	Scaffold3794	43073	AA	GG	1947049486
SNP_P4_183334_43265	NW_004518397.1	Scaffold3794	43265	TT	CC	1947049488
SNP_P4_183336_46965	NW_004518397.1	Scaffold3794	46965	CC	TT	1947049490
SNP_P4_183338_50831	NW_004518397.1	Scaffold3794	50831	AA	GG	1947049492
SNP_P4_183339_51012	NW_004518397.1	Scaffold3794	51012	CC	TT	1947049494

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_183340_52146	NW_004518397.1	Scaffold3794	52146	GG	CC	1947049496
SNP_P4_183342_56714	NW_004518397.1	Scaffold3794	56714	AA	TT	1947049498
SNP_P4_183343_57002	NW_004518397.1	Scaffold3794	57002	GG	CC	1947049500
SNP_P4_183345_58639	NW_004518397.1	Scaffold3794	58639	GG	AA	1947049502
SNP_P4_183346_58786	NW_004518397.1	Scaffold3794	58786	AA	GG	1947049504
SNP_P4_183347_59092	NW_004518397.1	Scaffold3794	59092	CC	TT	1947049506
SNP_P4_183348_64097	NW_004518397.1	Scaffold3794	64097	GG	AA	1947049508
SNP_P4_183349_67611	NW_004518397.1	Scaffold3794	67611	CC	GG	1947049510
SNP_P4_183350_68287	NW_004518397.1	Scaffold3794	68287	TT	CC	1947049512
SNP_P4_183351_71260	NW_004518397.1	Scaffold3794	71260	TT	AA	1947049514
SNP_P4_183352_72464	NW_004518397.1	Scaffold3794	72464	TT	CC	1947049516
SNP_P4_183353_72484	NW_004518397.1	Scaffold3794	72484	TT	CC	1947049518
SNP_P4_183354_72514	NW_004518397.1	Scaffold3794	72514	GG	AA	1947049520
SNP_P4_183355_72519	NW_004518397.1	Scaffold3794	72519	TT	CC	1947049522
SNP_P4_183357_73643	NW_004518397.1	Scaffold3794	73643	TT	CC	1947049524
SNP_P4_183358_75230	NW_004518397.1	Scaffold3794	75230	GG	AA	1947049526
SNP_P4_183359_77546	NW_004518397.1	Scaffold3794	77546	TT	CC	1947049528
SNP_P4_183360_77905	NW_004518397.1	Scaffold3794	77905	GG	AA	1947049530
SNP_P4_183361_77939	NW_004518397.1	Scaffold3794	77939	AA	GG	1947049532
SNP_P4_183362_78516	NW_004518397.1	Scaffold3794	78516	CC	AA	1947049534
SNP_P4_183363_79031	NW_004518397.1	Scaffold3794	79031	AA	GG	1947049536
SNP_P4_183365_82525	NW_004518397.1	Scaffold3794	82525	AA	GG	1947049538
SNP_P4_183366_82697	NW_004518397.1	Scaffold3794	82697	TT	AA	1947049540
SNP_P4_183367_86785	NW_004518397.1	Scaffold3794	86785	CC	AA	1947049542
SNP_P4_183368_502	NW_004518399.1	Scaffold3797	502	TT	CC	1947049544
SNP_P4_183369_1338	NW_004518403.1	Scaffold3802	1338	CC	GG	1947049546
SNP_P4_183370_17808	NW_004518406.1	Scaffold3810	17808	TT	CC	1947049548
SNP_P4_183371_21139	NW_004518406.1	Scaffold3810	21139	CC	TT	1947049550
SNP_P4_183372_21444	NW_004518406.1	Scaffold3810	21444	AA	CC	1947049552
SNP_P4_183373_21478	NW_004518406.1	Scaffold3810	21478	AA	GG	1947049554
SNP_P4_183374_21555	NW_004518406.1	Scaffold3810	21555	GG	CC	1947049556
SNP_P4_183375_21574	NW_004518406.1	Scaffold3810	21574	TT	CC	1947049558
SNP_P4_183376_21647	NW_004518406.1	Scaffold3810	21647	TT	GG	1947049560
SNP_P4_183378_22016	NW_004518406.1	Scaffold3810	22016	TT	AA	1947049562
SNP_P4_183379_22988	NW_004518406.1	Scaffold3810	22988	GG	AA	1947049564
SNP_P4_183380_23014	NW_004518406.1	Scaffold3810	23014	AA	GG	1947049566
SNP_P4_183381_26358	NW_004518406.1	Scaffold3810	26358	GG	AA	1947049568
SNP_P4_183382_4060	NW_004518407.1	Scaffold3811	4060	GG	TT	1947049570
SNP_P4_183384_24578	NW_004518407.1	Scaffold3811	24578	TT	CC	1947049572
SNP_P4_183385_24597	NW_004518407.1	Scaffold3811	24597	AA	GG	1947049574
SNP_P4_183386_24956	NW_004518407.1	Scaffold3811	24956	TT	CC	1947049576
SNP_P4_183387_24958	NW_004518407.1	Scaffold3811	24958	TT	CC	1947049578

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_183389_25060	NW_004518407.1	Scaffold3811	25060	TT	CC	1947049582
SNP_P4_183390_576	NW_004518408.1	Scaffold3812	576	GG	TT	1947049584
SNP_P4_183391_789	NW_004518408.1	Scaffold3812	789	AA	GG	1947049586
SNP_P4_183392_824	NW_004518408.1	Scaffold3812	824	CC	AA	1947049588
SNP_P4_183393_850	NW_004518408.1	Scaffold3812	850	AA	CC	1947049590
SNP_P4_183394_1107	NW_004518408.1	Scaffold3812	1107	TT	CC	1947049592
SNP_P4_183395_1121	NW_004518408.1	Scaffold3812	1121	AA	GG	1947049594
SNP_P4_183396_1146	NW_004518408.1	Scaffold3812	1146	CC	AA	1947049596
SNP_P4_183397_811	NW_004518409.1	Scaffold3813	811	TT	CC	1947049598
SNP_P4_183398_1334	NW_004518409.1	Scaffold3813	1334	CC	TT	1947049600
SNP_P4_183399_1382	NW_004518409.1	Scaffold3813	1382	TT	CC	1947049602
SNP_P4_183400_1411	NW_004518409.1	Scaffold3813	1411	CC	GG	1947049604
SNP_P4_183401_1650	NW_004518409.1	Scaffold3813	1650	TT	GG	1947049606
SNP_P4_183402_2977	NW_004518410.1	Scaffold3815	2977	TT	AA	1947049608
SNP_P4_183403_503	NW_004518411.1	Scaffold3816	503	CC	TT	1947049610
SNP_P4_183404_515	NW_004518411.1	Scaffold3816	515	GG	AA	1947049612
SNP_P4_183405_533	NW_004518411.1	Scaffold3816	533	TT	CC	1947049614
SNP_P4_183406_560	NW_004518411.1	Scaffold3816	560	AA	CC	1947049616
SNP_P4_183407_868	NW_004518411.1	Scaffold3816	868	GG	AA	1947049618
SNP_P4_183408_2140	NW_004518411.1	Scaffold3816	2140	GG	TT	1947049620
SNP_P4_183409_9079	NW_004518412.1	Scaffold3817	9079	GG	AA	1947049622
SNP_P4_183410_1243	NW_004518413.1	Scaffold3818	1243	TT	CC	1947049624
SNP_P4_183411_2499	NW_004518415.1	Scaffold3823	2499	TT	AA	1947049626
SNP_P4_183412_2673	NW_004518415.1	Scaffold3823	2673	CC	TT	1947049628
SNP_P4_183413_2727	NW_004518415.1	Scaffold3823	2727	AA	GG	1947049630
SNP_P4_183415_3477	NW_004518415.1	Scaffold3823	3477	AA	GG	1947049632
SNP_P4_183416_3709	NW_004518415.1	Scaffold3823	3709	TT	GG	1947049634
SNP_P4_183417_3720	NW_004518415.1	Scaffold3823	3720	CC	TT	1947049636
SNP_P4_183418_3812	NW_004518415.1	Scaffold3823	3812	CC	AA	1947049638
SNP_P4_183419_3888	NW_004518415.1	Scaffold3823	3888	CC	TT	1947049640
SNP_P4_183420_3892	NW_004518415.1	Scaffold3823	3892	AA	GG	1947049642
SNP_P4_183422_4045	NW_004518415.1	Scaffold3823	4045	TT	GG	1947049644
SNP_P4_183423_4202	NW_004518415.1	Scaffold3823	4202	TT	GG	1947049646
SNP_P4_183424_10110	NW_004518416.1	Scaffold3824	10110	AA	GG	1947049648
SNP_P4_183426_11676	NW_004518416.1	Scaffold3824	11676	CC	TT	1947049650
SNP_P4_183427_22047	NW_004518416.1	Scaffold3824	22047	TT	GG	1947049652
SNP_P4_183428_22250	NW_004518416.1	Scaffold3824	22250	TT	CC	1947049654
SNP_P4_183429_22456	NW_004518416.1	Scaffold3824	22456	GG	AA	1947049656
SNP_P4_183430_653	NW_004518419.1	Scaffold3830	653	GG	AA	1947049658
SNP_P4_183431_654	NW_004518419.1	Scaffold3830	654	AA	CC	1947049660
SNP_P4_183432_676	NW_004518419.1	Scaffold3830	676	TT	CC	1947049662

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_183433_720	NW_004518419.1	Scaffold3830	720	CC	AA	1947049664
SNP_P4_183434_652	NW_004518423.1	Scaffold3837	652	CC	TT	1947049666
SNP_P4_183435_874	NW_004518423.1	Scaffold3837	874	CC	TT	1947049668
SNP_P4_183436_2057	NW_004518423.1	Scaffold3837	2057	AA	GG	1947049670
SNP_P4_183437_2088	NW_004518423.1	Scaffold3837	2088	TT	GG	1947049672
SNP_P4_183438_2103	NW_004518423.1	Scaffold3837	2103	TT	CC	1947049674
SNP_P4_183439_2139	NW_004518423.1	Scaffold3837	2139	CC	GG	1947049676
SNP_P4_183440_2185	NW_004518423.1	Scaffold3837	2185	TT	CC	1947049678
SNP_P4_183441_2211	NW_004518423.1	Scaffold3837	2211	GG	AA	1947049680
SNP_P4_183443_2408	NW_004518423.1	Scaffold3837	2408	AA	TT	1947049682
SNP_P4_183443_2548	NW_004518423.1	Scaffold3837	2548	AA	TT	1947049684
SNP_P4_183446_2604	NW_004518423.1	Scaffold3837	2604	AA	GG	1947049686
SNP_P4_183447_2606	NW_004518423.1	Scaffold3837	2606	GG	TT	1947049688
SNP_P4_183448_2646	NW_004518423.1	Scaffold3837	2646	CC	TT	1947049690
SNP_P4_183449_2700	NW_004518423.1	Scaffold3837	2700	TT	AA	1947049692
SNP_P4_183450_2708	NW_004518423.1	Scaffold3837	2708	TT	CC	1947049694
SNP_P4_183451_3570	NW_004518423.1	Scaffold3837	3570	TT	CC	1947049696
SNP_P4_183452_5317	NW_004518423.1	Scaffold3837	5317	TT	CC	1947049698
SNP_P4_183453_5403	NW_004518423.1	Scaffold3837	5403	CC	TT	1947049700
SNP_P4_183454_5421	NW_004518423.1	Scaffold3837	5421	CC	TT	1947049702
SNP_P4_183455_5429	NW_004518423.1	Scaffold3837	5429	CC	TT	1947049704
SNP_P4_183456_5443	NW_004518423.1	Scaffold3837	5443	TT	CC	1947049706
SNP_P4_183457_5477	NW_004518423.1	Scaffold3837	5477	CC	TT	1947049708
SNP_P4_183458_5480	NW_004518423.1	Scaffold3837	5480	TT	AA	1947049710
SNP_P4_183459_5607	NW_004518423.1	Scaffold3837	5607	GG	TT	1947049712
SNP_P4_183460_5633	NW_004518423.1	Scaffold3837	5633	GG	AA	1947049714
SNP_P4_183461_5641	NW_004518423.1	Scaffold3837	5641	TT	CC	1947049716
SNP_P4_183463_5689	NW_004518423.1	Scaffold3837	5689	TT	CC	1947049718
SNP_P4_183464_5704	NW_004518423.1	Scaffold3837	5704	CC	TT	1947049720
SNP_P4_183465_5716	NW_004518423.1	Scaffold3837	5716	TT	GG	1947049722
SNP_P4_183466_5747	NW_004518423.1	Scaffold3837	5747	CC	GG	1947049724
SNP_P4_183467_5812	NW_004518423.1	Scaffold3837	5812	CC	TT	1947049726
SNP_P4_183468_5837	NW_004518423.1	Scaffold3837	5837	TT	CC	1947049728
SNP_P4_183469_5849	NW_004518423.1	Scaffold3837	5849	CC	TT	1947049730
SNP_P4_183470_5875	NW_004518423.1	Scaffold3837	5875	GG	TT	1947049732
SNP_P4_183472_5989	NW_004518423.1	Scaffold3837	5989	CC	TT	1947049734
SNP_P4_183473_6095	NW_004518423.1	Scaffold3837	6095	GG	TT	1947049736
SNP_P4_183474_6101	NW_004518423.1	Scaffold3837	6101	GG	AA	1947049738
SNP_P4_183475_6332	NW_004518423.1	Scaffold3837	6332	CC	GG	1947049740
SNP_P4_183476_6343	NW_004518423.1	Scaffold3837	6343	CC	GG	1947049742
SNP_P4_183477_6375	NW_004518423.1	Scaffold3837	6375	GG	TT	1947049744
SNP_P4_183478_6416	NW_004518423.1	Scaffold3837	6416	AA	GG	1947049746

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_183480_6446	NW_004518423.1	Scaffold3837	6446	CC	TT	1947049750
SNP_P4_183481_6505	NW_004518423.1	Scaffold3837	6505	AA	GG	1947049751
SNP_P4_183482_6512	NW_004518423.1	Scaffold3837	6512	CC	TT	1947049752
SNP_P4_183483_6541	NW_004518423.1	Scaffold3837	6541	TT	CC	1947049753
SNP_P4_183484_6577	NW_004518423.1	Scaffold3837	6577	AA	GG	1947049754
SNP_P4_183485_6603	NW_004518423.1	Scaffold3837	6603	GG	AA	1947049755
SNP_P4_183486_6612	NW_004518423.1	Scaffold3837	6612	GG	CC	1947049756
SNP_P4_183487_6675	NW_004518423.1	Scaffold3837	6675	TT	CC	1947049758
SNP_P4_183488_6751	NW_004518423.1	Scaffold3837	6751	TT	CC	1947049760
SNP_P4_183489_6916	NW_004518423.1	Scaffold3837	6916	AA	GG	1947049762
SNP_P4_183490_10123	NW_004518423.1	Scaffold3837	10123	GG	AA	1947049764
SNP_P4_183491_10431	NW_004518423.1	Scaffold3837	10431	AA	CC	1947049766
SNP_P4_183492_2564	NW_004518425.1	Scaffold3840	2564	AA	GG	1947049768
SNP_P4_183493_516	NW_004518426.1	Scaffold3842	516	TT	CC	1947049770
SNP_P4_183494_1335	NW_004518426.1	Scaffold3842	1335	AA	TT	1947049772
SNP_P4_183495_2121	NW_004518426.1	Scaffold3842	2121	AA	TT	1947049774
SNP_P4_183496_2138	NW_004518426.1	Scaffold3842	2138	CC	TT	1947049776
SNP_P4_183497_5893	NW_004518432.1	Scaffold3850	5893	GG	CC	1947049778
SNP_P4_183498_10657	NW_004518432.1	Scaffold3850	10657	TT	CC	1947049780
SNP_P4_183499_12585	NW_004518432.1	Scaffold3850	12585	TT	GG	1947049782
SNP_P4_183500_13175	NW_004518432.1	Scaffold3850	13175	TT	AA	1947049784
SNP_P4_183501_1407	NW_004518433.1	Scaffold3851	1407	AA	CC	1947049786
SNP_P4_183502_1438	NW_004518433.1	Scaffold3851	1438	TT	GG	1947049788
SNP_P4_183503_1494	NW_004518433.1	Scaffold3851	1494	TT	CC	1947049789
SNP_P4_183504_1585	NW_004518433.1	Scaffold3851	1585	TT	CC	1947049791
SNP_P4_183505_1609	NW_004518433.1	Scaffold3851	1609	CC	AA	1947049794
SNP_P4_183506_1637	NW_004518433.1	Scaffold3851	1637	AA	TT	1947049796
SNP_P4_183507_1665	NW_004518433.1	Scaffold3851	1665	AA	GG	1947049798
SNP_P4_183508_1667	NW_004518433.1	Scaffold3851	1667	TT	AA	1947049800
SNP_P4_183509_1669	NW_004518433.1	Scaffold3851	1669	CC	AA	1947049802
SNP_P4_183510_1854	NW_004518433.1	Scaffold3851	1854	GG	CC	1947049804
SNP_P4_183511_1865	NW_004518433.1	Scaffold3851	1865	CC	TT	1947049806
SNP_P4_183512_571	NW_004518436.1	Scaffold3856	571	GG	TT	1947049808
SNP_P4_183513_615	NW_004518436.1	Scaffold3856	615	AA	GG	1947049810
SNP_P4_183515_5566	NW_004518436.1	Scaffold3856	5566	TT	CC	1947049812
SNP_P4_183516_5841	NW_004518436.1	Scaffold3856	5841	CC	TT	1947049814
SNP_P4_183517_5857	NW_004518436.1	Scaffold3856	5857	TT	CC	1947049816
SNP_P4_183518_5901	NW_004518436.1	Scaffold3856	5901	AA	GG	1947049818
SNP_P4_183519_6117	NW_004518436.1	Scaffold3856	6117	AA	TT	1947049820
SNP_P4_183520_6157	NW_004518436.1	Scaffold3856	6157	GG	TT	1947049822
SNP_P4_183521_6826	NW_004518436.1	Scaffold3856	6826	TT	GG	1947049824

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_183523_15805	NW_004518444.1	Scaffold3865	15805	AA	TT	1947049828
SNP_P4_183524_15814	NW_004518444.1	Scaffold3865	15814	CC	GG	1947049830
SNP_P4_183525_21958	NW_004518444.1	Scaffold3865	21958	AA	GG	1947049832
SNP_P4_183526_63464	NW_004518444.1	Scaffold3865	63464	AA	TT	1947049834
SNP_P4_183527_63908	NW_004518444.1	Scaffold3865	63908	AA	TT	1947049836
SNP_P4_183528_63963	NW_004518444.1	Scaffold3865	63963	AA	CC	1947049838
SNP_P4_183529_64294	NW_004518444.1	Scaffold3865	64294	AA	TT	1947049840
SNP_P4_183530_64361	NW_004518444.1	Scaffold3865	64361	TT	CC	1947049842
SNP_P4_183531_64376	NW_004518444.1	Scaffold3865	64376	AA	GG	1947049844
SNP_P4_183532_64486	NW_004518444.1	Scaffold3865	64486	TT	AA	1947049846
SNP_P4_183533_64494	NW_004518444.1	Scaffold3865	64494	AA	CC	1947049848
SNP_P4_183534_385	NW_004518445.1	Scaffold3868	385	TT	AA	1947049850
SNP_P4_183535_439	NW_004518445.1	Scaffold3868	439	GG	CC	1947049852
SNP_P4_183536_7513	NW_004518450.1	Scaffold3874	7513	AA	TT	1947049854
SNP_P4_183537_7557	NW_004518450.1	Scaffold3874	7557	GG	CC	1947049856
SNP_P4_183538_7571	NW_004518450.1	Scaffold3874	7571	AA	CC	1947049858
SNP_P4_183539_7849	NW_004518450.1	Scaffold3874	7849	GG	AA	1947049860
SNP_P4_183540_7854	NW_004518450.1	Scaffold3874	7854	TT	CC	1947049862
SNP_P4_183541_8006	NW_004518450.1	Scaffold3874	8006	GG	TT	1947049864
SNP_P4_183542_8013	NW_004518450.1	Scaffold3874	8013	AA	GG	1947049866
SNP_P4_183543_9393	NW_004518450.1	Scaffold3874	9393	AA	TT	1947049868
SNP_P4_183544_9445	NW_004518450.1	Scaffold3874	9445	AA	CC	1947049870
SNP_P4_183545_9474	NW_004518450.1	Scaffold3874	9474	AA	GG	1947049872
SNP_P4_183546_16124	NW_004518450.1	Scaffold3874	16124	TT	CC	1947049874
SNP_P4_183547_4311	NW_004518451.1	Scaffold3876	4311	AA	GG	1947049876
SNP_P4_183548_5322	NW_004518451.1	Scaffold3876	5322	CC	GG	1947049878
SNP_P4_183549_6692	NW_004518451.1	Scaffold3876	6692	GG	AA	1947049880
SNP_P4_183550_11141	NW_004518451.1	Scaffold3876	11141	TT	CC	1947049882
SNP_P4_183551_11696	NW_004518451.1	Scaffold3876	11696	CC	TT	1947049884
SNP_P4_183552_19847	NW_004518451.1	Scaffold3876	19847	AA	CC	1947049886
SNP_P4_183553_29744	NW_004518451.1	Scaffold3876	29744	TT	GG	1947049888
SNP_P4_183554_29748	NW_004518451.1	Scaffold3876	29748	GG	AA	1947049890
SNP_P4_183555_29823	NW_004518451.1	Scaffold3876	29823	GG	AA	1947049892
SNP_P4_183556_30460	NW_004518451.1	Scaffold3876	30460	CC	TT	1947049894
SNP_P4_183557_30780	NW_004518451.1	Scaffold3876	30780	AA	GG	1947049896
SNP_P4_183558_32793	NW_004518451.1	Scaffold3876	32793	AA	GG	1947049898
SNP_P4_183559_1997	NW_004518453.1	Scaffold3878	1997	AA	GG	1947049900
SNP_P4_183560_2270	NW_004518453.1	Scaffold3878	2270	CC	GG	1947049902
SNP_P4_183561_2315	NW_004518453.1	Scaffold3878	2315	CC	AA	1947049904
SNP_P4_183562_2370	NW_004518453.1	Scaffold3878	2370	AA	CC	1947049906
SNP_P4_183563_2062	NW_004518455.1	Scaffold3881	2062	TT	GG	1947049908

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_183565_8527	NW_004518455.1	Scaffold3881	8527	AA	GG	1947049912
SNP_P4_183566_8528	NW_004518455.1	Scaffold3881	8528	TT	GG	1947049914
SNP_P4_183567_8620	NW_004518455.1	Scaffold3881	8620	TT	AA	1947049916
SNP_P4_183568_8629	NW_004518455.1	Scaffold3881	8629	TT	AA	1947049917
SNP_P4_183569_9011	NW_004518455.1	Scaffold3881	9011	AA	GG	1947049918
SNP_P4_183570_1699	NW_004518456.1	Scaffold3882	1699	TT	CC	1947049919
SNP_P4_183571_1744	NW_004518456.1	Scaffold3882	1744	CC	AA	1947049921
SNP_P4_183572_1748	NW_004518456.1	Scaffold3882	1748	AA	CC	1947049923
SNP_P4_183573_2053	NW_004518456.1	Scaffold3882	2053	AA	GG	1947049925
SNP_P4_183574_2054	NW_004518456.1	Scaffold3882	2054	CC	GG	1947049927
SNP_P4_183575_2078	NW_004518456.1	Scaffold3882	2078	TT	CC	1947049929
SNP_P4_183576_2099	NW_004518456.1	Scaffold3882	2099	AA	TT	1947049931
SNP_P4_183578_907	NW_004518463.1	Scaffold3890	907	TT	CC	1947049933
SNP_P4_183579_5459	NW_004518463.1	Scaffold3890	5459	GG	TT	1947049935
SNP_P4_183580_5463	NW_004518463.1	Scaffold3890	5463	GG	TT	1947049937
SNP_P4_183581_5534	NW_004518463.1	Scaffold3890	5534	TT	CC	1947049939
SNP_P4_183582_5593	NW_004518463.1	Scaffold3890	5593	GG	AA	1947049941
SNP_P4_183583_5635	NW_004518463.1	Scaffold3890	5635	TT	CC	1947049943
SNP_P4_183584_5708	NW_004518463.1	Scaffold3890	5708	TT	AA	1947049945
SNP_P4_183585_5717	NW_004518463.1	Scaffold3890	5717	AA	GG	1947049947
SNP_P4_183586_5775	NW_004518463.1	Scaffold3890	5775	CC	TT	1947049949
SNP_P4_183587_8248	NW_004518463.1	Scaffold3890	8248	TT	CC	1947049951
SNP_P4_183588_8267	NW_004518463.1	Scaffold3890	8267	TT	CC	1947049954
SNP_P4_183589_8653	NW_004518463.1	Scaffold3890	8653	TT	AA	1947049956
SNP_P4_183590_9151	NW_004518463.1	Scaffold3890	9151	TT	CC	1947049958
SNP_P4_183591_9157	NW_004518463.1	Scaffold3890	9157	CC	AA	1947049960
SNP_P4_183592_10887	NW_004518463.1	Scaffold3890	10887	AA	CC	1947049962
SNP_P4_183593_972	NW_004518466.1	Scaffold3896	972	GG	CC	1947049964
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SNP_P4_183595_2444	NW_004518466.1	Scaffold3896	2444	TT	CC	1947049968
SNP_P4_183596_2542	NW_004518466.1	Scaffold3896	2542	GG	CC	1947049970
SNP_P4_183597_2552	NW_004518466.1	Scaffold3896	2552	AA	TT	1947049972
SNP_P4_183598_2562	NW_004518466.1	Scaffold3896	2562	CC	TT	1947049974
SNP_P4_183601_4727	NW_004518469.1	Scaffold3900	4727	AA	GG	1947049976
SNP_P4_183602_4746	NW_004518469.1	Scaffold3900	4746	AA	TT	1947049978
SNP_P4_183603_6422	NW_004518469.1	Scaffold3900	6422	CC	GG	1947049980
SNP_P4_183604_6423	NW_004518469.1	Scaffold3900	6423	TT	GG	1947049982
SNP_P4_183605_6454	NW_004518469.1	Scaffold3900	6454	GG	AA	1947049984
SNP_P4_183606_6502	NW_004518469.1	Scaffold3900	6502	CC	GG	1947049986
SNP_P4_183607_6669	NW_004518469.1	Scaffold3900	6669	CC	TT	1947049988
SNP_P4_183609_6692	NW_004518469.1	Scaffold3900	6692	GG	AA	1947049990

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_183611_7810	NW_004518469.1	Scaffold3900	7810	AA	TT	1947049994
SNP_P4_183612_7811	NW_004518469.1	Scaffold3900	7811	AA	GG	1947049996
SNP_P4_183613_7812	NW_004518469.1	Scaffold3900	7812	TT	CC	1947049998
SNP_P4_183614_7900	NW_004518469.1	Scaffold3900	7900	GG	TT	1947050000
SNP_P4_183615_9053	NW_004518469.1	Scaffold3900	9053	TT	AA	1947050002
SNP_P4_183616_9088	NW_004518469.1	Scaffold3900	9088	TT	AA	1947050004
SNP_P4_183617_9389	NW_004518469.1	Scaffold3900	9389	TT	CC	1947050006
SNP_P4_183618_13855	NW_004518469.1	Scaffold3900	13855	AA	GG	1947050008
SNP_P4_183619_14140	NW_004518469.1	Scaffold3900	14140	TT	CC	1947050010
SNP_P4_183620_14504	NW_004518469.1	Scaffold3900	14504	AA	CC	1947050012
SNP_P4_183621_14544	NW_004518469.1	Scaffold3900	14544	GG	AA	1947050014
SNP_P4_183622_14583	NW_004518469.1	Scaffold3900	14583	CC	GG	1947050016
SNP_P4_183623_14586	NW_004518469.1	Scaffold3900	14586	GG	TT	1947050018
SNP_P4_183624_14805	NW_004518469.1	Scaffold3900	14805	TT	GG	1947050020
SNP_P4_183625_2891	NW_004518471.1	Scaffold3902	2891	GG	AA	1947050021
SNP_P4_183626_2928	NW_004518471.1	Scaffold3902	2928	GG	TT	1947050023
SNP_P4_183627_2939	NW_004518471.1	Scaffold3902	2939	TT	CC	1947050025
SNP_P4_183628_2954	NW_004518471.1	Scaffold3902	2954	TT	AA	1947050027
SNP_P4_183629_2995	NW_004518471.1	Scaffold3902	2995	GG	AA	1947050029
SNP_P4_183630_3119	NW_004518471.1	Scaffold3902	3119	GG	TT	1947050031
SNP_P4_183631_3202	NW_004518471.1	Scaffold3902	3202	AA	GG	1947050033
SNP_P4_183632_3247	NW_004518471.1	Scaffold3902	3247	TT	CC	1947050035
SNP_P4_183633_3477	NW_004518471.1	Scaffold3902	3477	AA	CC	1947050037
SNP_P4_183634_3487	NW_004518471.1	Scaffold3902	3487	GG	AA	1947050039
SNP_P4_183635_3495	NW_004518471.1	Scaffold3902	3495	TT	CC	1947050041
SNP_P4_183636_3537	NW_004518471.1	Scaffold3902	3537	CC	AA	1947050043
SNP_P4_183637_3546	NW_004518471.1	Scaffold3902	3546	CC	GG	1947050045
SNP_P4_183638_3597	NW_004518471.1	Scaffold3902	3597	AA	GG	1947050047
SNP_P4_183639_3668	NW_004518471.1	Scaffold3902	3668	TT	GG	1947050049
SNP_P4_183640_3698	NW_004518471.1	Scaffold3902	3698	GG	TT	1947050051
SNP_P4_183641_3872	NW_004518471.1	Scaffold3902	3872	TT	AA	1947050053
SNP_P4_183643_3935	NW_004518471.1	Scaffold3902	3935	TT	AA	1947050055
SNP_P4_183644_371	NW_004518474.1	Scaffold3906	371	CC	TT	1947050057
SNP_P4_183645_373	NW_004518474.1	Scaffold3906	373	AA	GG	1947050059
SNP_P4_183646_394	NW_004518474.1	Scaffold3906	394	CC	TT	1947050061
SNP_P4_183647_411	NW_004518474.1	Scaffold3906	411	GG	AA	1947050063
SNP_P4_183648_469	NW_004518475.1	Scaffold3907	469	CC	TT	1947050065
SNP_P4_183649_514	NW_004518475.1	Scaffold3907	514	TT	GG	1947050067
SNP_P4_183650_529	NW_004518475.1	Scaffold3907	529	TT	CC	1947050069
SNP_P4_183651_3451	NW_004518475.1	Scaffold3907	3451	CC	TT	1947050071
SNP_P4_183652_3455	NW_004518475.1	Scaffold3907	3455	GG	AA	1947050073

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_183655_3606	NW_004518475.1	Scaffold3907	3606	TT	CC	1947050079
SNP_P4_183656_3625	NW_004518475.1	Scaffold3907	3625	CC	TT	1947050081
SNP_P4_183657_3671	NW_004518475.1	Scaffold3907	3671	TT	CC	1947050083
SNP_P4_183658_3775	NW_004518475.1	Scaffold3907	3775	TT	CC	1947050085
SNP_P4_183659_3912	NW_004518475.1	Scaffold3907	3912	AA	GG	1947050087
SNP_P4_183660_5013	NW_004518475.1	Scaffold3907	5013	AA	CC	1947050090
SNP_P4_183662_6021	NW_004518475.1	Scaffold3907	6021	CC	TT	1947050092
SNP_P4_183663_6056	NW_004518475.1	Scaffold3907	6056	GG	AA	1947050094
SNP_P4_183665_4017	NW_004518477.1	Scaffold3909	4017	GG	CC	1947050096
SNP_P4_183666_4026	NW_004518477.1	Scaffold3909	4026	GG	AA	1947050098
SNP_P4_183667_8603	NW_004518477.1	Scaffold3909	8603	TT	AA	1947050100
SNP_P4_183668_8604	NW_004518477.1	Scaffold3909	8604	AA	TT	1947050102
SNP_P4_183669_21187	NW_004518477.1	Scaffold3909	21187	TT	CC	1947050104
SNP_P4_183670_24577	NW_004518477.1	Scaffold3909	24577	GG	CC	1947050106
SNP_P4_183671_24582	NW_004518477.1	Scaffold3909	24582	GG	TT	1947050108
SNP_P4_183672_24590	NW_004518477.1	Scaffold3909	24590	GG	CC	1947050110
SNP_P4_183673_24614	NW_004518477.1	Scaffold3909	24614	AA	GG	1947050112
SNP_P4_183674_24624	NW_004518477.1	Scaffold3909	24624	GG	TT	1947050114
SNP_P4_183675_29007	NW_004518477.1	Scaffold3909	29007	AA	TT	1947050116
SNP_P4_183676_29109	NW_004518477.1	Scaffold3909	29109	AA	TT	1947050118
SNP_P4_183677_29112	NW_004518477.1	Scaffold3909	29112	GG	CC	1947050121
SNP_P4_183678_32325	NW_004518477.1	Scaffold3909	32325	AA	TT	1947050123
SNP_P4_183679_32332	NW_004518477.1	Scaffold3909	32332	AA	CC	1947050125
SNP_P4_183680_32475	NW_004518477.1	Scaffold3909	32475	GG	TT	1947050127
SNP_P4_183681_8363	NW_004518480.1	Scaffold3912	8363	GG	AA	1947050129
SNP_P4_183682_1352	NW_004518482.1	Scaffold3915	1352	TT	AA	1947050131
SNP_P4_183683_3403	NW_004518482.1	Scaffold3915	3403	CC	TT	1947050133
SNP_P4_183684_5276	NW_004518482.1	Scaffold3915	5276	AA	CC	1947050135
SNP_P4_183685_7263	NW_004518482.1	Scaffold3915	7263	GG	AA	1947050137
SNP_P4_183686_7314	NW_004518482.1	Scaffold3915	7314	TT	CC	1947050139
SNP_P4_183687_7413	NW_004518482.1	Scaffold3915	7413	CC	TT	1947050141
SNP_P4_183688_7578	NW_004518482.1	Scaffold3915	7578	GG	AA	1947050143
SNP_P4_183689_7611	NW_004518482.1	Scaffold3915	7611	CC	AA	1947050145
SNP_P4_183690_7816	NW_004518482.1	Scaffold3915	7816	AA	GG	1947050147
SNP_P4_183691_1953	NW_004518484.1	Scaffold3917	1953	GG	AA	1947050149
SNP_P4_183692_2106	NW_004518484.1	Scaffold3917	2106	GG	TT	1947050151
SNP_P4_183693_2111	NW_004518484.1	Scaffold3917	2111	CC	TT	1947050153
SNP_P4_183694_2192	NW_004518484.1	Scaffold3917	2192	CC	AA	1947050155
SNP_P4_183695_2222	NW_004518484.1	Scaffold3917	2222	GG	AA	1947050157
SNP_P4_183696_2298	NW_004518484.1	Scaffold3917	2298	GG	AA	1947050159

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_183698_2360	NW_004518484.1	Scaffold3917	2360	AA	TT	1947050164
SNP_P4_183699_2362	NW_004518484.1	Scaffold3917	2362	TT	AA	1947050166
SNP_P4_183700_2526	NW_004518484.1	Scaffold3917	2526	CC	AA	1947050168
SNP_P4_183701_2604	NW_004518484.1	Scaffold3917	2604	AA	GG	1947050170
SNP_P4_183702_2664	NW_004518484.1	Scaffold3917	2664	CC	TT	1947050172
SNP_P4_183703_2709	NW_004518484.1	Scaffold3917	2709	CC	AA	1947050174
SNP_P4_183704_2743	NW_004518484.1	Scaffold3917	2743	AA	CC	1947050176
SNP_P4_183705_2748	NW_004518484.1	Scaffold3917	2748	AA	CC	1947050178
SNP_P4_183706_2821	NW_004518484.1	Scaffold3917	2821	CC	TT	1947050180
SNP_P4_183707_3121	NW_004518484.1	Scaffold3917	3121	CC	TT	1947050182
SNP_P4_183708_3128	NW_004518484.1	Scaffold3917	3128	TT	CC	1947050184
SNP_P4_183709_3183	NW_004518484.1	Scaffold3917	3183	AA	GG	1947050186
SNP_P4_183710_3251	NW_004518484.1	Scaffold3917	3251	AA	CC	1947050188
SNP_P4_183711_3304	NW_004518484.1	Scaffold3917	3304	TT	CC	1947050190
SNP_P4_183712_3319	NW_004518484.1	Scaffold3917	3319	TT	AA	1947050192
SNP_P4_183713_3356	NW_004518484.1	Scaffold3917	3356	TT	CC	1947050194
SNP_P4_183714_3375	NW_004518484.1	Scaffold3917	3375	CC	AA	1947050196
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SNP_P4_183716_3557	NW_004518484.1	Scaffold3917	3557	TT	AA	1947050200
SNP_P4_183717_3765	NW_004518484.1	Scaffold3917	3765	CC	AA	1947050202
SNP_P4_183718_3768	NW_004518484.1	Scaffold3917	3768	GG	TT	1947050204
SNP_P4_183719_3843	NW_004518484.1	Scaffold3917	3843	TT	CC	1947050207
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SNP_P4_183721_4167	NW_004518484.1	Scaffold3917	4167	CC	AA	1947050211
SNP_P4_183722_4233	NW_004518484.1	Scaffold3917	4233	TT	CC	1947050213
SNP_P4_183724_4373	NW_004518484.1	Scaffold3917	4373	TT	CC	1947050215
SNP_P4_183725_4418	NW_004518484.1	Scaffold3917	4418	CC	AA	1947050217
SNP_P4_183726_4423	NW_004518484.1	Scaffold3917	4423	CC	TT	1947050219
SNP_P4_183727_4440	NW_004518484.1	Scaffold3917	4440	CC	TT	1947050221
SNP_P4_183728_4512	NW_004518484.1	Scaffold3917	4512	AA	GG	1947050223
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SNP_P4_183730_4982	NW_004518484.1	Scaffold3917	4982	GG	AA	1947050227
SNP_P4_183731_5055	NW_004518484.1	Scaffold3917	5055	AA	GG	1947050229
SNP_P4_183732_5121	NW_004518484.1	Scaffold3917	5121	TT	AA	1947050231
SNP_P4_183733_4073	NW_004518485.1	Scaffold3918	4073	AA	TT	1947050233
SNP_P4_183734_4104	NW_004518485.1	Scaffold3918	4104	CC	AA	1947050235
SNP_P4_183735_4139	NW_004518485.1	Scaffold3918	4139	AA	TT	1947050237
SNP_P4_183736_4242	NW_004518485.1	Scaffold3918	4242	AA	CC	1947050239
SNP_P4_183738_4390	NW_004518485.1	Scaffold3918	4390	AA	TT	1947050241
SNP_P4_183739_4405	NW_004518485.1	Scaffold3918	4405	AA	GG	1947050243
SNP_P4_183741_4611	NW_004518485.1	Scaffold3918	4611	GG	TT	1947050245

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_183744_4696	NW_004518485.1	Scaffold3918	4696	AA	TT	1947050251
SNP_P4_183745_4836	NW_004518485.1	Scaffold3918	4836	CC	AA	1947050253
SNP_P4_183746_4852	NW_004518485.1	Scaffold3918	4852	GG	AA	1947050255
SNP_P4_183747_4984	NW_004518485.1	Scaffold3918	4984	TT	CC	1947050257
SNP_P4_183748_5065	NW_004518485.1	Scaffold3918	5065	CC	TT	1947050259
SNP_P4_183749_5085	NW_004518485.1	Scaffold3918	5085	TT	AA	1947050262
SNP_P4_183750_5112	NW_004518485.1	Scaffold3918	5112	AA	GG	1947050264
SNP_P4_183751_5129	NW_004518485.1	Scaffold3918	5129	CC	TT	1947050266
SNP_P4_183752_5143	NW_004518485.1	Scaffold3918	5143	AA	CC	1947050268
SNP_P4_183753_5199	NW_004518485.1	Scaffold3918	5199	TT	CC	1947050270
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SNP_P4_183755_5385	NW_004518485.1	Scaffold3918	5385	TT	CC	1947050274
SNP_P4_183756_5398	NW_004518485.1	Scaffold3918	5398	AA	CC	1947050276
SNP_P4_183757_5409	NW_004518485.1	Scaffold3918	5409	TT	CC	1947050278
SNP_P4_183758_5442	NW_004518485.1	Scaffold3918	5442	TT	CC	1947050280
SNP_P4_183759_5460	NW_004518485.1	Scaffold3918	5460	CC	TT	1947050282
SNP_P4_183760_5481	NW_004518485.1	Scaffold3918	5481	GG	TT	1947050284
SNP_P4_183761_5521	NW_004518485.1	Scaffold3918	5521	GG	CC	1947050286
SNP_P4_183762_5582	NW_004518485.1	Scaffold3918	5582	TT	AA	1947050288
SNP_P4_183763_5597	NW_004518485.1	Scaffold3918	5597	TT	AA	1947050290
SNP_P4_183764_5632	NW_004518485.1	Scaffold3918	5632	CC	GG	1947050292
SNP_P4_183765_5650	NW_004518485.1	Scaffold3918	5650	TT	CC	1947050294
SNP_P4_183766_5696	NW_004518485.1	Scaffold3918	5696	TT	AA	1947050296
SNP_P4_183767_6080	NW_004518485.1	Scaffold3918	6080	GG	AA	1947050298
SNP_P4_183768_6086	NW_004518485.1	Scaffold3918	6086	TT	GG	1947050300
SNP_P4_183769_6225	NW_004518485.1	Scaffold3918	6225	AA	TT	1947050302
SNP_P4_183770_6307	NW_004518485.1	Scaffold3918	6307	TT	AA	1947050304
SNP_P4_183771_6356	NW_004518485.1	Scaffold3918	6356	TT	CC	1947050306
SNP_P4_183772_6421	NW_004518485.1	Scaffold3918	6421	AA	TT	1947050308
SNP_P4_183773_6494	NW_004518485.1	Scaffold3918	6494	AA	CC	1947050310
SNP_P4_183774_6502	NW_004518485.1	Scaffold3918	6502	GG	AA	1947050312
SNP_P4_183775_6535	NW_004518485.1	Scaffold3918	6535	TT	CC	1947050314
SNP_P4_183776_6548	NW_004518485.1	Scaffold3918	6548	TT	CC	1947050316
SNP_P4_183777_6602	NW_004518485.1	Scaffold3918	6602	AA	CC	1947050318
SNP_P4_183778_6604	NW_004518485.1	Scaffold3918	6604	CC	GG	1947050320
SNP_P4_183779_10028	NW_004518485.1	Scaffold3918	10028	CC	TT	1947050322
SNP_P4_183780_10275	NW_004518485.1	Scaffold3918	10275	GG	AA	1947050324
SNP_P4_183781_10038	NW_004518486.1	Scaffold3919	10038	CC	AA	1947050326
SNP_P4_183782_116	NW_004518487.1	Scaffold3920	116	CC	TT	1947050328
SNP_P4_183783_1845	NW_004518489.1	Scaffold3923	1845	CC	TT	1947050330

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_183784_1849	NW_004518489.1	Scaffold3923	1849	TT	GG	1947050332
SNP_P4_183785_1859	NW_004518489.1	Scaffold3923	1859	GG	AA	1947050334
SNP_P4_183786_1862	NW_004518489.1	Scaffold3923	1862	TT	CC	1947050336
SNP_P4_183787_1924	NW_004518489.1	Scaffold3923	1924	AA	GG	1947050338
SNP_P4_183788_1928	NW_004518489.1	Scaffold3923	1928	AA	GG	1947050340
SNP_P4_183789_1943	NW_004518489.1	Scaffold3923	1943	GG	TT	1947050342
SNP_P4_183790_1945	NW_004518489.1	Scaffold3923	1945	TT	CC	1947050344
SNP_P4_183791_2003	NW_004518489.1	Scaffold3923	2003	GG	TT	1947050346
SNP_P4_183792_2018	NW_004518489.1	Scaffold3923	2018	AA	GG	1947050348
SNP_P4_183794_3288	NW_004518489.1	Scaffold3923	3288	CC	TT	1947050350
SNP_P4_183795_3290	NW_004518489.1	Scaffold3923	3290	CC	TT	1947050353
SNP_P4_183797_4239	NW_004518489.1	Scaffold3923	4239	TT	CC	1947050355
SNP_P4_183798_4402	NW_004518489.1	Scaffold3923	4402	TT	AA	1947050357
SNP_P4_183799_5552	NW_004518491.1	Scaffold3925	5552	GG	AA	1947050359
SNP_P4_183800_508	NW_004518493.1	Scaffold3927	508	TT	CC	1947050361
SNP_P4_183801_590	NW_004518493.1	Scaffold3927	590	AA	GG	1947050363
SNP_P4_183803_1674	NW_004518493.1	Scaffold3927	1674	AA	GG	1947050365
SNP_P4_183805_1898	NW_004518495.1	Scaffold3932	1898	TT	CC	1947050367
SNP_P4_183806_2119	NW_004518495.1	Scaffold3932	2119	AA	CC	1947050369
SNP_P4_183807_2131	NW_004518495.1	Scaffold3932	2131	AA	GG	1947050371
SNP_P4_183808_2383	NW_004518495.1	Scaffold3932	2383	CC	AA	1947050373
SNP_P4_183809_2420	NW_004518495.1	Scaffold3932	2420	AA	CC	1947050375
SNP_P4_183810_2432	NW_004518495.1	Scaffold3932	2432	AA	GG	1947050377
SNP_P4_183811_2490	NW_004518495.1	Scaffold3932	2490	GG	AA	1947050379
SNP_P4_183812_5519	NW_004518495.1	Scaffold3932	5519	AA	GG	1947050381
SNP_P4_183813_5522	NW_004518495.1	Scaffold3932	5522	TT	AA	1947050383
SNP_P4_183814_1387	NW_004518496.1	Scaffold3933	1387	CC	AA	1947050385
SNP_P4_183816_1013	NW_004518497.1	Scaffold3934	1013	TT	AA	1947050387
SNP_P4_183817_3804	NW_004518497.1	Scaffold3934	3804	TT	CC	1947050389
SNP_P4_183819_3842	NW_004518497.1	Scaffold3934	3842	CC	TT	1947050391
SNP_P4_183820_4197	NW_004518497.1	Scaffold3934	4197	GG	CC	1947050393
SNP_P4_183821_4359	NW_004518497.1	Scaffold3934	4359	GG	AA	1947050395
SNP_P4_183822_4641	NW_004518497.1	Scaffold3934	4641	GG	TT	1947050397
SNP_P4_183823_4817	NW_004518497.1	Scaffold3934	4817	AA	GG	1947050399
SNP_P4_183824_10217	NW_004518497.1	Scaffold3934	10217	TT	GG	1947050401
SNP_P4_183825_10218	NW_004518497.1	Scaffold3934	10218	TT	GG	1947050403
SNP_P4_183826_10219	NW_004518497.1	Scaffold3934	10219	TT	CC	1947050405
SNP_P4_183827_14138	NW_004518497.1	Scaffold3934	14138	TT	GG	1947050407
SNP_P4_183828_14476	NW_004518497.1	Scaffold3934	14476	CC	AA	1947050409
SNP_P4_183829_17597	NW_004518497.1	Scaffold3934	17597	GG	TT	1947050411
SNP_P4_183830_17634	NW_004518497.1	Scaffold3934	17634	GG	AA	1947050413
SNP_P4_183831_17640	NW_004518497.1	Scaffold3934	17640	TT	GG	1947050415

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_183833_18006	NW_004518497.1	Scaffold3934	18006	TT	CC	1947050419
SNP_P4_183834_342	NW_004518498.1	Scaffold3935	342	GG	AA	1947050421
SNP_P4_183835_456	NW_004518498.1	Scaffold3935	456	CC	AA	1947050423
SNP_P4_183836_1136	NW_004518500.1	Scaffold3938	1136	AA	TT	1947050425
SNP_P4_183837_3376	NW_004518501.1	Scaffold3939	3376	TT	AA	1947050427
SNP_P4_183838_290	NW_004518503.1	Scaffold3941	290	AA	GG	1947050429
SNP_P4_183839_4806	NW_004518504.1	Scaffold3942	4806	TT	GG	1947050431
SNP_P4_183840_4835	NW_004518504.1	Scaffold3942	4835	AA	TT	1947050433
SNP_P4_183841_4844	NW_004518504.1	Scaffold3942	4844	CC	TT	1947050435
SNP_P4_183842_4859	NW_004518504.1	Scaffold3942	4859	TT	CC	1947050437
SNP_P4_183843_4910	NW_004518504.1	Scaffold3942	4910	GG	AA	1947050439
SNP_P4_183844_5029	NW_004518504.1	Scaffold3942	5029	TT	CC	1947050441
SNP_P4_183846_5079	NW_004518504.1	Scaffold3942	5079	TT	GG	1947050443
SNP_P4_183847_2866	NW_004518507.1	Scaffold3945	2866	GG	TT	1947050446
SNP_P4_183848_5216	NW_004518507.1	Scaffold3945	5216	GG	CC	1947050448
SNP_P4_183849_11332	NW_004518507.1	Scaffold3945	11332	TT	GG	1947050450
SNP_P4_183850_11391	NW_004518507.1	Scaffold3945	11391	TT	GG	1947050452
SNP_P4_183851_11541	NW_004518507.1	Scaffold3945	11541	AA	CC	1947050454
SNP_P4_183852_11597	NW_004518507.1	Scaffold3945	11597	GG	CC	1947050456
SNP_P4_183854_13004	NW_004518507.1	Scaffold3945	13004	TT	CC	1947050458
SNP_P4_183855_28624	NW_004518507.1	Scaffold3945	28624	GG	TT	1947050460
SNP_P4_183856_28629	NW_004518507.1	Scaffold3945	28629	TT	CC	1947050462
SNP_P4_183858_31783	NW_004518507.1	Scaffold3945	31783	AA	TT	1947050464
SNP_P4_183859_5928	NW_004518509.1	Scaffold3947	5928	GG	AA	1947050466
SNP_P4_183860_5983	NW_004518509.1	Scaffold3947	5983	AA	CC	1947050468
SNP_P4_183864_6114	NW_004518509.1	Scaffold3947	6114	TT	CC	1947050470
SNP_P4_183865_11055	NW_004518509.1	Scaffold3947	11055	TT	CC	1947050472
SNP_P4_183866_11066	NW_004518509.1	Scaffold3947	11066	GG	AA	1947050474
SNP_P4_183867_11086	NW_004518509.1	Scaffold3947	11086	TT	CC	1947050476
SNP_P4_183868_11486	NW_004518509.1	Scaffold3947	11486	TT	GG	1947050478
SNP_P4_183869_11575	NW_004518509.1	Scaffold3947	11575	TT	AA	1947050480
SNP_P4_183870_64	NW_004518510.1	Scaffold3948	64	CC	GG	1947050482
SNP_P4_183871_109	NW_004518510.1	Scaffold3948	109	TT	AA	1947050484
SNP_P4_183872_111	NW_004518510.1	Scaffold3948	111	CC	GG	1947050486
SNP_P4_183873_173	NW_004518510.1	Scaffold3948	173	AA	CC	1947050488
SNP_P4_183874_332	NW_004518510.1	Scaffold3948	332	CC	GG	1947050490
SNP_P4_183875_806	NW_004518511.1	Scaffold3950	806	CC	TT	1947050492
SNP_P4_183876_3805	NW_004518511.1	Scaffold3950	3805	AA	GG	1947050494
SNP_P4_183877_4211	NW_004518511.1	Scaffold3950	4211	AA	GG	1947050496
SNP_P4_183878_4326	NW_004518511.1	Scaffold3950	4326	AA	GG	1947050498
SNP_P4_183879_4421	NW_004518511.1	Scaffold3950	4421	TT	CC	1947050500

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_183881_4588	NW_004518511.1	Scaffold3950	4588	CC	TT	1947050504
SNP_P4_183882_4713	NW_004518511.1	Scaffold3950	4713	TT	CC	1947050506
SNP_P4_183883_4766	NW_004518511.1	Scaffold3950	4766	CC	TT	1947050508
SNP_P4_183884_4772	NW_004518511.1	Scaffold3950	4772	AA	GG	1947050510
SNP_P4_183885_4791	NW_004518511.1	Scaffold3950	4791	CC	TT	1947050512
SNP_P4_183886_4840	NW_004518511.1	Scaffold3950	4840	GG	AA	1947050514
SNP_P4_183887_4851	NW_004518511.1	Scaffold3950	4851	CC	TT	1947050516
SNP_P4_183888_4886	NW_004518511.1	Scaffold3950	4886	AA	GG	1947050518
SNP_P4_183889_4908	NW_004518511.1	Scaffold3950	4908	GG	TT	1947050520
SNP_P4_183890_5744	NW_004518511.1	Scaffold3950	5744	AA	GG	1947050522
SNP_P4_183891_5745	NW_004518511.1	Scaffold3950	5745	GG	AA	1947050524
SNP_P4_183892_5760	NW_004518511.1	Scaffold3950	5760	AA	GG	1947050526
SNP_P4_183893_5774	NW_004518511.1	Scaffold3950	5774	TT	AA	1947050528
SNP_P4_183894_5779	NW_004518511.1	Scaffold3950	5779	AA	CC	1947050530
SNP_P4_183896_6800	NW_004518511.1	Scaffold3950	6800	TT	CC	1947050532
SNP_P4_183897_6821	NW_004518511.1	Scaffold3950	6821	TT	CC	1947050534
SNP_P4_183898_6958	NW_004518511.1	Scaffold3950	6958	TT	GG	1947050536
SNP_P4_183899_7005	NW_004518511.1	Scaffold3950	7005	CC	TT	1947050538
SNP_P4_183900_7026	NW_004518511.1	Scaffold3950	7026	CC	TT	1947050540
SNP_P4_183901_7073	NW_004518511.1	Scaffold3950	7073	GG	CC	1947050542
SNP_P4_183902_7107	NW_004518511.1	Scaffold3950	7107	TT	CC	1947050544
SNP_P4_183903_7114	NW_004518511.1	Scaffold3950	7114	TT	GG	1947050546
SNP_P4_183904_7252	NW_004518511.1	Scaffold3950	7252	CC	TT	1947050548
SNP_P4_183906_7432	NW_004518511.1	Scaffold3950	7432	TT	CC	1947050550
SNP_P4_183907_7497	NW_004518511.1	Scaffold3950	7497	TT	AA	1947050552
SNP_P4_183908_7543	NW_004518511.1	Scaffold3950	7543	AA	GG	1947050554
SNP_P4_183909_7620	NW_004518511.1	Scaffold3950	7620	GG	TT	1947050556
SNP_P4_183912_7838	NW_004518511.1	Scaffold3950	7838	AA	GG	1947050558
SNP_P4_183913_8033	NW_004518511.1	Scaffold3950	8033	AA	GG	1947050561
SNP_P4_183914_8132	NW_004518511.1	Scaffold3950	8132	AA	GG	1947050563
SNP_P4_183915_8174	NW_004518511.1	Scaffold3950	8174	TT	AA	1947050565
SNP_P4_183916_8203	NW_004518511.1	Scaffold3950	8203	TT	CC	1947050567
SNP_P4_183917_8206	NW_004518511.1	Scaffold3950	8206	TT	AA	1947050569
SNP_P4_183919_8434	NW_004518511.1	Scaffold3950	8434	TT	CC	1947050571
SNP_P4_183921_8554	NW_004518511.1	Scaffold3950	8554	CC	TT	1947050573
SNP_P4_183923_8707	NW_004518511.1	Scaffold3950	8707	GG	TT	1947050575
SNP_P4_183924_8750	NW_004518511.1	Scaffold3950	8750	AA	CC	1947050577
SNP_P4_183926_8942	NW_004518511.1	Scaffold3950	8942	AA	TT	1947050579
SNP_P4_183927_8944	NW_004518511.1	Scaffold3950	8944	TT	CC	1947050581
SNP_P4_183928_8965	NW_004518511.1	Scaffold3950	8965	GG	AA	1947050583
SNP_P4_183929_9105	NW_004518511.1	Scaffold3950	9105	AA	GG	1947050585

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_183931_9164	NW_004518511.1	Scaffold3950	9164	AA	GG	1947050589
SNP_P4_183932_9217	NW_004518511.1	Scaffold3950	9217	AA	GG	1947050591
SNP_P4_183934_12649	NW_004518511.1	Scaffold3950	12649	CC	AA	1947050593
SNP_P4_183935_12849	NW_004518511.1	Scaffold3950	12849	TT	CC	1947050595
SNP_P4_183936_13049	NW_004518511.1	Scaffold3950	13049	CC	AA	1947050597
SNP_P4_183937_1132	NW_004518512.1	Scaffold3951	1132	TT	AA	1947050599
SNP_P4_183938_1133	NW_004518512.1	Scaffold3951	1133	TT	GG	1947050601
SNP_P4_183939_1136	NW_004518512.1	Scaffold3951	1136	TT	AA	1947050603
SNP_P4_183940_1142	NW_004518512.1	Scaffold3951	1142	CC	AA	1947050605
SNP_P4_183941_1156	NW_004518512.1	Scaffold3951	1156	AA	GG	1947050607
SNP_P4_183942_1828	NW_004518512.1	Scaffold3951	1828	AA	TT	1947050609
SNP_P4_183943_1845	NW_004518512.1	Scaffold3951	1845	AA	TT	1947050611
SNP_P4_183944_1923	NW_004518512.1	Scaffold3951	1923	CC	TT	1947050613
SNP_P4_183945_1925	NW_004518512.1	Scaffold3951	1925	CC	TT	1947050615
SNP_P4_183946_1926	NW_004518512.1	Scaffold3951	1926	CC	TT	1947050617
SNP_P4_183947_2785	NW_004518512.1	Scaffold3951	2785	TT	AA	1947050619
SNP_P4_183948_2805	NW_004518512.1	Scaffold3951	2805	AA	GG	1947050621
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SNP_P4_183950_2911	NW_004518512.1	Scaffold3951	2911	GG	CC	1947050625
SNP_P4_183951_2919	NW_004518512.1	Scaffold3951	2919	CC	AA	1947050627
SNP_P4_183952_553	NW_004518513.1	Scaffold3952	553	GG	AA	1947050629
SNP_P4_183954_1058	NW_004518513.1	Scaffold3952	1058	TT	CC	1947050631
SNP_P4_183955_1104	NW_004518513.1	Scaffold3952	1104	AA	GG	1947050633
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SNP_P4_183958_397	NW_004518514.1	Scaffold3953	397	CC	TT	1947050639
SNP_P4_183959_485	NW_004518514.1	Scaffold3953	485	CC	TT	1947050641
SNP_P4_183960_976	NW_004518514.1	Scaffold3953	976	CC	TT	1947050643
SNP_P4_183961_1032	NW_004518514.1	Scaffold3953	1032	TT	AA	1947050645
SNP_P4_183962_56	NW_004518519.1	Scaffold3962	56	CC	TT	1947050647
SNP_P4_183964_68	NW_004518519.1	Scaffold3962	68	GG	AA	1947050649
SNP_P4_183965_81	NW_004518519.1	Scaffold3962	81	GG	CC	1947050651
SNP_P4_183966_82	NW_004518519.1	Scaffold3962	82	CC	AA	1947050653
SNP_P4_183967_169	NW_004518519.1	Scaffold3962	169	TT	CC	1947050655
SNP_P4_183968_236	NW_004518519.1	Scaffold3962	236	CC	TT	1947050657
SNP_P4_183969_388	NW_004518519.1	Scaffold3962	388	AA	CC	1947050659
SNP_P4_183970_389	NW_004518519.1	Scaffold3962	389	CC	TT	1947050661
SNP_P4_183971_555	NW_004518519.1	Scaffold3962	555	TT	CC	1947050663
SNP_P4_183972_629	NW_004518519.1	Scaffold3962	629	TT	GG	1947050665
SNP_P4_183973_64	NW_004518522.1	Scaffold3966	64	CC	GG	1947050667
SNP_P4_183974_3774	NW_004518523.1	Scaffold3967	3774	GG	AA	1947050669

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_183976_3896	NW_004518523.1	Scaffold3967	3896	AA	CC	1947050674
SNP_P4_183977_3967	NW_004518523.1	Scaffold3967	3967	TT	AA	1947050676
SNP_P4_183978_3968	NW_004518523.1	Scaffold3967	3968	TT	CC	1947050678
SNP_P4_183979_3979	NW_004518523.1	Scaffold3967	3979	TT	CC	1947050680
SNP_P4_183980_4261	NW_004518523.1	Scaffold3967	4261	GG	CC	1947050682
SNP_P4_183981_903	NW_004518525.1	Scaffold3970	903	CC	AA	1947050684
SNP_P4_183982_4767	NW_004518525.1	Scaffold3970	4767	TT	CC	1947050686
SNP_P4_183983_4948	NW_004518525.1	Scaffold3970	4948	CC	AA	1947050688
SNP_P4_183984_4980	NW_004518525.1	Scaffold3970	4980	CC	AA	1947050690
SNP_P4_183985_5073	NW_004518525.1	Scaffold3970	5073	AA	CC	1947050692
SNP_P4_183986_5285	NW_004518525.1	Scaffold3970	5285	GG	AA	1947050694
SNP_P4_183987_5468	NW_004518525.1	Scaffold3970	5468	GG	CC	1947050696
SNP_P4_183988_5648	NW_004518525.1	Scaffold3970	5648	CC	TT	1947050698
SNP_P4_183989_635	NW_004518528.1	Scaffold3973	635	TT	CC	1947050700
SNP_P4_183990_646	NW_004518528.1	Scaffold3973	646	AA	GG	1947050702
SNP_P4_183991_898	NW_004518528.1	Scaffold3973	898	AA	GG	1947050704
SNP_P4_183992_1267	NW_004518528.1	Scaffold3973	1267	CC	TT	1947050706
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SNP_P4_183994_1318	NW_004518528.1	Scaffold3973	1318	TT	AA	1947050710
SNP_P4_183995_555	NW_004518534.1	Scaffold3981	555	AA	TT	1947050712
SNP_P4_183996_12520	NW_004518537.1	Scaffold3985	12520	GG	AA	1947050714
SNP_P4_183998_15911	NW_004518537.1	Scaffold3985	15911	AA	CC	1947050716
SNP_P4_183999_15912	NW_004518537.1	Scaffold3985	15912	GG	TT	1947050718
SNP_P4_184000_16000	NW_004518537.1	Scaffold3985	16000	AA	GG	1947050720
SNP_P4_184001_1016	NW_004518541.1	Scaffold3989	1016	TT	GG	1947050722
SNP_P4_184002_5678	NW_004518544.1	Scaffold3993	5678	TT	CC	1947050724
SNP_P4_184003_580	NW_004518546.1	Scaffold3995	580	TT	CC	1947050726
SNP_P4_184004_604	NW_004518546.1	Scaffold3995	604	AA	GG	1947050728
SNP_P4_184005_605	NW_004518546.1	Scaffold3995	605	GG	AA	1947050730
SNP_P4_184006_610	NW_004518546.1	Scaffold3995	610	GG	TT	1947050732
SNP_P4_184007_665	NW_004518547.1	Scaffold3996	665	TT	GG	1947050734
SNP_P4_184008_499	NW_004518550.1	Scaffold4002	499	AA	TT	1947050736
SNP_P4_184009_870	NW_004518550.1	Scaffold4002	870	AA	GG	1947050738
SNP_P4_184010_880	NW_004518550.1	Scaffold4002	880	GG	AA	1947050740
SNP_P4_184011_977	NW_004518550.1	Scaffold4002	977	AA	CC	1947050742
SNP_P4_184012_1028	NW_004518550.1	Scaffold4002	1028	GG	AA	1947050744
SNP_P4_184013_1120	NW_004518550.1	Scaffold4002	1120	CC	AA	1947050746
SNP_P4_184014_3073	NW_004518550.1	Scaffold4002	3073	GG	CC	1947050748
SNP_P4_184015_22836	NW_004518551.1	Scaffold4003	22836	TT	CC	1947050750
SNP_P4_184016_22891	NW_004518551.1	Scaffold4003	22891	GG	TT	1947050752
SNP_P4_184017_24471	NW_004518551.1	Scaffold4003	24471	CC	TT	1947050754

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_184019_782	NW_004518553.1	Scaffold4006	782	TT	AA	1947050758
SNP_P4_184020_68	NW_004518554.1	Scaffold4007	68	CC	AA	1947050760
SNP_P4_184021_134	NW_004518554.1	Scaffold4007	134	TT	CC	1947050762
SNP_P4_184022_266	NW_004518554.1	Scaffold4007	266	GG	AA	1947050763
SNP_P4_184023_461	NW_004518554.1	Scaffold4007	461	AA	GG	1947050765
SNP_P4_184024_1214	NW_004518554.1	Scaffold4007	1214	AA	GG	1947050767
SNP_P4_184025_1423	NW_004518554.1	Scaffold4007	1423	AA	GG	1947050769
SNP_P4_184026_2753	NW_004518557.1	Scaffold4011	2753	CC	TT	1947050771
SNP_P4_184027_2805	NW_004518557.1	Scaffold4011	2805	CC	TT	1947050773
SNP_P4_184028_2849	NW_004518557.1	Scaffold4011	2849	CC	AA	1947050775
SNP_P4_184029_20205	NW_004518557.1	Scaffold4011	20205	TT	GG	1947050777
SNP_P4_184030_20247	NW_004518557.1	Scaffold4011	20247	CC	GG	1947050779
SNP_P4_184031_38513	NW_004518557.1	Scaffold4011	38513	TT	AA	1947050781
SNP_P4_184033_63310	NW_004518557.1	Scaffold4011	63310	TT	CC	1947050783
SNP_P4_184034_65207	NW_004518557.1	Scaffold4011	65207	AA	GG	1947050785
SNP_P4_184035_102978	NW_004518557.1	Scaffold4011	102978	AA	GG	1947050787
SNP_P4_184036_103101	NW_004518557.1	Scaffold4011	103101	GG	AA	1947050789
SNP_P4_184037_103254	NW_004518557.1	Scaffold4011	103254	AA	TT	1947050791
SNP_P4_184038_123949	NW_004518557.1	Scaffold4011	123949	CC	TT	1947050793
SNP_P4_184039_132520	NW_004518557.1	Scaffold4011	132520	TT	GG	1947050795
SNP_P4_184040_132546	NW_004518557.1	Scaffold4011	132546	TT	GG	1947050797
SNP_P4_184042_1012	NW_004518561.1	Scaffold4017	1012	CC	TT	1947050799
SNP_P4_184043_1040	NW_004518561.1	Scaffold4017	1040	AA	TT	1947050801
SNP_P4_184044_1042	NW_004518561.1	Scaffold4017	1042	CC	TT	1947050803
SNP_P4_184045_1083	NW_004518561.1	Scaffold4017	1083	CC	TT	1947050805
SNP_P4_184046_1370	NW_004518561.1	Scaffold4017	1370	CC	AA	1947050807
SNP_P4_184047_1371	NW_004518561.1	Scaffold4017	1371	CC	AA	1947050809
SNP_P4_184048_467	NW_004518563.1	Scaffold4020	467	AA	TT	1947050811
SNP_P4_184049_562	NW_004518563.1	Scaffold4020	562	GG	CC	1947050813
SNP_P4_184051_838	NW_004518563.1	Scaffold4020	838	TT	CC	1947050815
SNP_P4_184052_5847	NW_004518563.1	Scaffold4020	5847	AA	CC	1947050817
SNP_P4_184053_10919	NW_004518563.1	Scaffold4020	10919	CC	GG	1947050819
SNP_P4_184054_11041	NW_004518563.1	Scaffold4020	11041	TT	CC	1947050821
SNP_P4_184055_11118	NW_004518563.1	Scaffold4020	11118	AA	TT	1947050823
SNP_P4_184056_11123	NW_004518563.1	Scaffold4020	11123	TT	AA	1947050825
SNP_P4_184057_11238	NW_004518563.1	Scaffold4020	11238	TT	AA	1947050827
SNP_P4_184058_11306	NW_004518563.1	Scaffold4020	11306	TT	GG	1947050829
SNP_P4_184059_669	NW_004518564.1	Scaffold4023	669	AA	GG	1947050831
SNP_P4_184060_709	NW_004518564.1	Scaffold4023	709	TT	AA	1947050833
SNP_P4_184062_1112	NW_004518564.1	Scaffold4023	1112	AA	TT	1947050835
SNP_P4_184063_3650	NW_004518565.1	Scaffold4024	3650	AA	TT	1947050837

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_184065_3827	NW_004518565.1	Scaffold4024	3827	AA	GG	1947050841
SNP_P4_184067_5985	NW_004518565.1	Scaffold4024	5985	CC	TT	1947050843
SNP_P4_184068_7320	NW_004518565.1	Scaffold4024	7320	CC	AA	1947050845
SNP_P4_184069_1016	NW_004518568.1	Scaffold4028	1016	AA	GG	1947050847
SNP_P4_184070_1071	NW_004518568.1	Scaffold4028	1071	TT	CC	1947050849
SNP_P4_184071_1298	NW_004518568.1	Scaffold4028	1298	AA	GG	1947050851
SNP_P4_184072_8313	NW_004518568.1	Scaffold4028	8313	TT	CC	1947050853
SNP_P4_184073_8315	NW_004518568.1	Scaffold4028	8315	TT	AA	1947050855
SNP_P4_184074_8318	NW_004518568.1	Scaffold4028	8318	GG	CC	1947050857
SNP_P4_184075_8319	NW_004518568.1	Scaffold4028	8319	GG	AA	1947050859
SNP_P4_184076_8377	NW_004518568.1	Scaffold4028	8377	TT	CC	1947050861
SNP_P4_184077_8507	NW_004518568.1	Scaffold4028	8507	TT	GG	1947050863
SNP_P4_184078_8586	NW_004518568.1	Scaffold4028	8586	AA	GG	1947050865
SNP_P4_184079_14265	NW_004518568.1	Scaffold4028	14265	TT	AA	1947050867
SNP_P4_184080_14277	NW_004518568.1	Scaffold4028	14277	TT	GG	1947050869
SNP_P4_184081_14281	NW_004518568.1	Scaffold4028	14281	TT	CC	1947050871
SNP_P4_184082_14372	NW_004518568.1	Scaffold4028	14372	TT	CC	1947050873
SNP_P4_184083_14598	NW_004518568.1	Scaffold4028	14598	TT	CC	1947050875
SNP_P4_184084_14626	NW_004518568.1	Scaffold4028	14626	TT	CC	1947050877
SNP_P4_184085_14629	NW_004518568.1	Scaffold4028	14629	CC	AA	1947050879
SNP_P4_184086_26852	NW_004518568.1	Scaffold4028	26852	AA	TT	1947050881
SNP_P4_184087_26854	NW_004518568.1	Scaffold4028	26854	AA	TT	1947050883
SNP_P4_184088_27121	NW_004518568.1	Scaffold4028	27121	GG	AA	1947050885
SNP_P4_184089_27129	NW_004518568.1	Scaffold4028	27129	GG	AA	1947050887
SNP_P4_184090_27181	NW_004518568.1	Scaffold4028	27181	GG	TT	1947050889
SNP_P4_184091_27236	NW_004518568.1	Scaffold4028	27236	AA	GG	1947050891
SNP_P4_184092_27544	NW_004518568.1	Scaffold4028	27544	TT	CC	1947050893
SNP_P4_184093_27548	NW_004518568.1	Scaffold4028	27548	AA	GG	1947050894
SNP_P4_184094_27608	NW_004518568.1	Scaffold4028	27608	GG	AA	1947050896
SNP_P4_184095_27623	NW_004518568.1	Scaffold4028	27623	AA	GG	1947050898
SNP_P4_184096_27654	NW_004518568.1	Scaffold4028	27654	GG	TT	1947050900
SNP_P4_184097_27659	NW_004518568.1	Scaffold4028	27659	TT	GG	1947050902
SNP_P4_184098_34153	NW_004518568.1	Scaffold4028	34153	AA	CC	1947050904
SNP_P4_184099_34870	NW_004518568.1	Scaffold4028	34870	GG	AA	1947050906
SNP_P4_184100_44136	NW_004518568.1	Scaffold4028	44136	AA	TT	1947050908
SNP_P4_184101_532	NW_004518570.1	Scaffold4031	532	TT	CC	1947050922
SNP_P4_184102_565	NW_004518570.1	Scaffold4031	565	GG	AA	1947050924
SNP_P4_184103_730	NW_004518570.1	Scaffold4031	730	AA	GG	1947050926
SNP_P4_184104_732	NW_004518570.1	Scaffold4031	732	AA	CC	1947050928
SNP_P4_184105_734	NW_004518570.1	Scaffold4031	734	AA	GG	1947050930
SNP_P4_184106_900	NW_004518570.1	Scaffold4031	900	AA	CC	1947050932

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_184108_1058	NW_004518570.1	Scaffold4031	1058	AA	GG	1947050936
SNP_P4_184109_1087	NW_004518570.1	Scaffold4031	1087	GG	AA	1947050938
SNP_P4_184110_2185	NW_004518571.1	Scaffold4032	2185	CC	TT	1947050940
SNP_P4_184111_2218	NW_004518571.1	Scaffold4032	2218	TT	AA	1947050942
SNP_P4_184112_2250	NW_004518571.1	Scaffold4032	2250	TT	AA	1947050944
SNP_P4_184113_2287	NW_004518571.1	Scaffold4032	2287	AA	CC	1947050946
SNP_P4_184114_2518	NW_004518571.1	Scaffold4032	2518	GG	AA	1947050948
SNP_P4_184115_2553	NW_004518571.1	Scaffold4032	2553	TT	CC	1947050950
SNP_P4_184116_2556	NW_004518571.1	Scaffold4032	2556	GG	AA	1947050952
SNP_P4_184117_2585	NW_004518571.1	Scaffold4032	2585	AA	TT	1947051026
SNP_P4_184118_2586	NW_004518571.1	Scaffold4032	2586	AA	CC	1947051028
SNP_P4_184119_2640	NW_004518571.1	Scaffold4032	2640	CC	GG	1947051030
SNP_P4_184120_2704	NW_004518571.1	Scaffold4032	2704	AA	CC	1947051032
SNP_P4_184121_2771	NW_004518571.1	Scaffold4032	2771	GG	TT	1947051034
SNP_P4_184122_2773	NW_004518571.1	Scaffold4032	2773	TT	CC	1947051037
SNP_P4_184123_6843	NW_004518571.1	Scaffold4032	6843	TT	AA	1947051039
SNP_P4_184124_6846	NW_004518571.1	Scaffold4032	6846	CC	AA	1947051041
SNP_P4_184125_6851	NW_004518571.1	Scaffold4032	6851	GG	AA	1947051043
SNP_P4_184126_2884	NW_004518572.1	Scaffold4034	2884	TT	AA	1947051045
SNP_P4_184127_2923	NW_004518572.1	Scaffold4034	2923	TT	CC	1947051047
SNP_P4_184128_2964	NW_004518572.1	Scaffold4034	2964	TT	CC	1947051049
SNP_P4_184129_2979	NW_004518572.1	Scaffold4034	2979	CC	AA	1947051051
SNP_P4_184130_3154	NW_004518572.1	Scaffold4034	3154	TT	CC	1947051053
SNP_P4_184131_3162	NW_004518572.1	Scaffold4034	3162	AA	GG	1947051056
SNP_P4_184132_798	NW_004518575.1	Scaffold4038	798	TT	GG	1947051058
SNP_P4_184133_813	NW_004518575.1	Scaffold4038	813	AA	GG	1947051060
SNP_P4_184135_874	NW_004518575.1	Scaffold4038	874	AA	GG	1947051062
SNP_P4_184136_1057	NW_004518575.1	Scaffold4038	1057	GG	TT	1947051064
SNP_P4_184137_1250	NW_004518575.1	Scaffold4038	1250	TT	CC	1947051067
SNP_P4_184138_524	NW_004518577.1	Scaffold4040	524	TT	CC	1947051069
SNP_P4_184139_570	NW_004518577.1	Scaffold4040	570	CC	TT	1947051071
SNP_P4_184141_795	NW_004518577.1	Scaffold4040	795	TT	CC	1947051073
SNP_P4_184142_64	NW_004518578.1	Scaffold4041	64	TT	AA	1947051075
SNP_P4_184143_99	NW_004518578.1	Scaffold4041	99	CC	AA	1947051077
SNP_P4_184144_150	NW_004518578.1	Scaffold4041	150	TT	GG	1947051079
SNP_P4_184145_249	NW_004518578.1	Scaffold4041	249	GG	CC	1947051081
SNP_P4_184147_362	NW_004518578.1	Scaffold4041	362	GG	AA	1947051083
SNP_P4_184148_591	NW_004518578.1	Scaffold4041	591	AA	TT	1947051085
SNP_P4_184149_971	NW_004518578.1	Scaffold4041	971	GG	TT	1947051087
SNP_P4_184150_978	NW_004518578.1	Scaffold4041	978	GG	AA	1947051090
SNP_P4_184153_13889	NW_004518578.1	Scaffold4041	13889	GG	AA	1947051092

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_184155_15413	NW_004518578.1	Scaffold4041	15413	AA	TT	1947051096
SNP_P4_184156_15431	NW_004518578.1	Scaffold4041	15431	GG	AA	1947051098
SNP_P4_184157_15454	NW_004518578.1	Scaffold4041	15454	TT	CC	1947051101
SNP_P4_184158_15501	NW_004518578.1	Scaffold4041	15501	GG	CC	1947051103
SNP_P4_184159_15539	NW_004518578.1	Scaffold4041	15539	TT	AA	1947051105
SNP_P4_184161_15666	NW_004518578.1	Scaffold4041	15666	TT	CC	1947051107
SNP_P4_184162_15667	NW_004518578.1	Scaffold4041	15667	TT	AA	1947051109
SNP_P4_184164_15746	NW_004518578.1	Scaffold4041	15746	TT	CC	1947051111
SNP_P4_184166_15777	NW_004518578.1	Scaffold4041	15777	CC	GG	1947051113
SNP_P4_184167_15784	NW_004518578.1	Scaffold4041	15784	GG	CC	1947051115
SNP_P4_184168_15847	NW_004518578.1	Scaffold4041	15847	CC	TT	1947051117
SNP_P4_184170_15873	NW_004518578.1	Scaffold4041	15873	TT	CC	1947051119
SNP_P4_184171_15905	NW_004518578.1	Scaffold4041	15905	AA	TT	1947051121
SNP_P4_184173_16001	NW_004518578.1	Scaffold4041	16001	CC	TT	1947051123
SNP_P4_184174_16018	NW_004518578.1	Scaffold4041	16018	CC	TT	1947051126
SNP_P4_184175_16116	NW_004518578.1	Scaffold4041	16116	TT	AA	1947051128
SNP_P4_184176_16142	NW_004518578.1	Scaffold4041	16142	AA	CC	1947051130
SNP_P4_184177_16146	NW_004518578.1	Scaffold4041	16146	AA	GG	1947051132
SNP_P4_184178_16148	NW_004518578.1	Scaffold4041	16148	CC	TT	1947051134
SNP_P4_184180_16312	NW_004518578.1	Scaffold4041	16312	TT	CC	1947051136
SNP_P4_184181_16346	NW_004518578.1	Scaffold4041	16346	GG	AA	1947051138
SNP_P4_184182_16399	NW_004518578.1	Scaffold4041	16399	GG	AA	1947051140
SNP_P4_184183_16403	NW_004518578.1	Scaffold4041	16403	TT	AA	1947051142
SNP_P4_184185_19072	NW_004518578.1	Scaffold4041	19072	TT	CC	1947051144
SNP_P4_184186_32322	NW_004518578.1	Scaffold4041	32322	GG	AA	1947051146
SNP_P4_184187_38059	NW_004518578.1	Scaffold4041	38059	GG	AA	1947051148
SNP_P4_184188_38289	NW_004518578.1	Scaffold4041	38289	TT	CC	1947051150
SNP_P4_184189_38757	NW_004518578.1	Scaffold4041	38757	CC	TT	1947051151
SNP_P4_184191_39282	NW_004518578.1	Scaffold4041	39282	AA	GG	1947051152
SNP_P4_184192_39819	NW_004518578.1	Scaffold4041	39819	CC	TT	1947051154
SNP_P4_184193_546	NW_004518580.1	Scaffold4045	546	AA	GG	1947051156
SNP_P4_184194_558	NW_004518580.1	Scaffold4045	558	AA	TT	1947051158
SNP_P4_184195_567	NW_004518580.1	Scaffold4045	567	TT	CC	1947051160
SNP_P4_184196_590	NW_004518580.1	Scaffold4045	590	AA	GG	1947051162
SNP_P4_184197_1128	NW_004518580.1	Scaffold4045	1128	AA	GG	1947051164
SNP_P4_184198_1544	NW_004518580.1	Scaffold4045	1544	AA	GG	1947051166
SNP_P4_184199_1560	NW_004518580.1	Scaffold4045	1560	CC	AA	1947051168
SNP_P4_184201_82	NW_004518583.1	Scaffold4050	82	TT	CC	1947051170
SNP_P4_184205_6630	NW_004518588.1	Scaffold4057	6630	CC	TT	1947051172
SNP_P4_184206_7006	NW_004518588.1	Scaffold4057	7006	GG	TT	1947051174
SNP_P4_184207_7565	NW_004518588.1	Scaffold4057	7565	AA	GG	1947051176

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_184210_31267	NW_004518588.1	Scaffold4057	31267	AA	TT	1947051180
SNP_P4_184211_49720	NW_004518588.1	Scaffold4057	49720	AA	CC	1947051182
SNP_P4_184212_2117	NW_004518590.1	Scaffold4061	2117	CC	TT	1947051184
SNP_P4_184213_2130	NW_004518590.1	Scaffold4061	2130	TT	CC	1947051186
SNP_P4_184214_2444	NW_004518590.1	Scaffold4061	2444	TT	CC	1947051188
SNP_P4_184215_2736	NW_004518590.1	Scaffold4061	2736	AA	TT	1947051190
SNP_P4_184216_2772	NW_004518590.1	Scaffold4061	2772	AA	CC	1947051192
SNP_P4_184217_3094	NW_004518590.1	Scaffold4061	3094	CC	TT	1947051194
SNP_P4_184218_7116	NW_004518590.1	Scaffold4061	7116	AA	GG	1947051196
SNP_P4_184219_7205	NW_004518590.1	Scaffold4061	7205	TT	GG	1947051198
SNP_P4_184220_8203	NW_004518590.1	Scaffold4061	8203	GG	AA	1947051200
SNP_P4_184221_8205	NW_004518590.1	Scaffold4061	8205	TT	AA	1947051202
SNP_P4_184223_8246	NW_004518590.1	Scaffold4061	8246	AA	GG	1947051204
SNP_P4_184224_8255	NW_004518590.1	Scaffold4061	8255	AA	GG	1947051206
SNP_P4_184225_8275	NW_004518590.1	Scaffold4061	8275	CC	GG	1947051208
SNP_P4_184226_11713	NW_004518590.1	Scaffold4061	11713	TT	AA	1947051210
SNP_P4_184227_12172	NW_004518590.1	Scaffold4061	12172	CC	TT	1947051212
SNP_P4_184228_754	NW_004518592.1	Scaffold4064	754	TT	CC	1947051214
SNP_P4_184230_912	NW_004518592.1	Scaffold4064	912	AA	GG	1947051216
SNP_P4_184231_987	NW_004518592.1	Scaffold4064	987	TT	GG	1947051218
SNP_P4_184233_1349	NW_004518592.1	Scaffold4064	1349	CC	GG	1947051220
SNP_P4_184235_1498	NW_004518592.1	Scaffold4064	1498	AA	GG	1947051222
SNP_P4_184236_1560	NW_004518592.1	Scaffold4064	1560	TT	CC	1947051224
SNP_P4_184237_1662	NW_004518592.1	Scaffold4064	1662	AA	TT	1947051226
SNP_P4_184238_1688	NW_004518592.1	Scaffold4064	1688	GG	AA	1947051228
SNP_P4_184239_1967	NW_004518592.1	Scaffold4064	1967	CC	AA	1947051230
SNP_P4_184240_2014	NW_004518592.1	Scaffold4064	2014	GG	TT	1947051232
SNP_P4_184242_2180	NW_004518592.1	Scaffold4064	2180	AA	GG	1947051234
SNP_P4_184243_2548	NW_004518592.1	Scaffold4064	2548	TT	AA	1947051236
SNP_P4_184244_2750	NW_004518592.1	Scaffold4064	2750	GG	TT	1947051238
SNP_P4_184245_2806	NW_004518592.1	Scaffold4064	2806	AA	GG	1947051240
SNP_P4_184246_2979	NW_004518592.1	Scaffold4064	2979	AA	TT	1947051242
SNP_P4_184247_3215	NW_004518592.1	Scaffold4064	3215	TT	AA	1947051244
SNP_P4_184248_3255	NW_004518592.1	Scaffold4064	3255	CC	TT	1947051246
SNP_P4_184249_3338	NW_004518592.1	Scaffold4064	3338	CC	AA	1947051248
SNP_P4_184250_3369	NW_004518592.1	Scaffold4064	3369	AA	GG	1947051250
SNP_P4_184251_3520	NW_004518592.1	Scaffold4064	3520	GG	AA	1947051252
SNP_P4_184252_3533	NW_004518592.1	Scaffold4064	3533	TT	GG	1947051253
SNP_P4_184253_3562	NW_004518592.1	Scaffold4064	3562	CC	TT	1947051254
SNP_P4_184254_3581	NW_004518592.1	Scaffold4064	3581	GG	AA	1947051255
SNP_P4_184255_3661	NW_004518592.1	Scaffold4064	3661	CC	TT	1947051256

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_184256_3700	NW_004518592.1	Scaffold4064	3700	AA	TT	1947051257
SNP_P4_184257_3883	NW_004518592.1	Scaffold4064	3883	GG	TT	1947051258
SNP_P4_184258_3984	NW_004518592.1	Scaffold4064	3984	CC	TT	1947051259
SNP_P4_184259_4025	NW_004518592.1	Scaffold4064	4025	TT	CC	1947051260
SNP_P4_184260_4034	NW_004518592.1	Scaffold4064	4034	TT	CC	1947051261
SNP_P4_184261_4091	NW_004518592.1	Scaffold4064	4091	GG	TT	1947051262
SNP_P4_184262_4212	NW_004518592.1	Scaffold4064	4212	AA	GG	1947051263
SNP_P4_184263_4307	NW_004518592.1	Scaffold4064	4307	TT	CC	1947051264
SNP_P4_184264_4633	NW_004518592.1	Scaffold4064	4633	AA	TT	1947051265
SNP_P4_184265_4670	NW_004518592.1	Scaffold4064	4670	AA	GG	1947051266
SNP_P4_184266_4781	NW_004518592.1	Scaffold4064	4781	AA	GG	1947051267
SNP_P4_184267_4791	NW_004518592.1	Scaffold4064	4791	GG	AA	1947051268
SNP_P4_184268_4816	NW_004518592.1	Scaffold4064	4816	TT	AA	1947051269
SNP_P4_184269_4994	NW_004518592.1	Scaffold4064	4994	CC	AA	1947051270
SNP_P4_184270_5052	NW_004518592.1	Scaffold4064	5052	TT	CC	1947051271
SNP_P4_184271_5147	NW_004518592.1	Scaffold4064	5147	CC	TT	1947051272
SNP_P4_184272_5268	NW_004518592.1	Scaffold4064	5268	TT	CC	1947051273
SNP_P4_184273_5331	NW_004518592.1	Scaffold4064	5331	TT	CC	1947051274
SNP_P4_184275_5435	NW_004518592.1	Scaffold4064	5435	AA	CC	1947051275
SNP_P4_184276_5657	NW_004518592.1	Scaffold4064	5657	AA	CC	1947051276
SNP_P4_184277_64	NW_004518605.1	Scaffold4081	64	CC	TT	1947051277
SNP_P4_184278_84	NW_004518605.1	Scaffold4081	84	TT	CC	1947051278
SNP_P4_184279_292	NW_004518605.1	Scaffold4081	292	TT	GG	1947051279
SNP_P4_184280_378	NW_004518605.1	Scaffold4081	378	GG	AA	1947051280
SNP_P4_184281_505	NW_004518605.1	Scaffold4081	505	TT	AA	1947051281
SNP_P4_184282_608	NW_004518605.1	Scaffold4081	608	GG	AA	1947051282
SNP_P4_184283_5213	NW_004518611.1	Scaffold4088	5213	GG	AA	1947051283
SNP_P4_184285_5688	NW_004518611.1	Scaffold4088	5688	CC	TT	1947051284
SNP_P4_184286_5741	NW_004518611.1	Scaffold4088	5741	GG	TT	1947051285
SNP_P4_184287_5947	NW_004518611.1	Scaffold4088	5947	GG	AA	1947051286
SNP_P4_184288_6023	NW_004518611.1	Scaffold4088	6023	GG	AA	1947051287
SNP_P4_184289_6024	NW_004518611.1	Scaffold4088	6024	GG	AA	1947051288
SNP_P4_184290_6425	NW_004518611.1	Scaffold4088	6425	CC	TT	1947051289
SNP_P4_184291_8311	NW_004518611.1	Scaffold4088	8311	TT	CC	1947051290
SNP_P4_184292_8900	NW_004518611.1	Scaffold4088	8900	GG	AA	1947051291
SNP_P4_184293_11222	NW_004518611.1	Scaffold4088	11222	TT	CC	1947051292
SNP_P4_184294_14801	NW_004518611.1	Scaffold4088	14801	CC	TT	1947051293
SNP_P4_184295_14972	NW_004518611.1	Scaffold4088	14972	GG	AA	1947051294
SNP_P4_184296_15058	NW_004518611.1	Scaffold4088	15058	AA	CC	1947051296
SNP_P4_184297_15090	NW_004518611.1	Scaffold4088	15090	AA	CC	1947051298
SNP_P4_184298_16469	NW_004518611.1	Scaffold4088	16469	TT	CC	1947051300
SNP_P4_184299_16482	NW_004518611.1	Scaffold4088	16482	CC	GG	1947051302

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_184300_17165	NW_004518611.1	Scaffold4088	17165	AA	TT	1947051304
SNP_P4_184301_17682	NW_004518611.1	Scaffold4088	17682	CC	TT	1947051306
SNP_P4_184302_17980	NW_004518611.1	Scaffold4088	17980	AA	GG	1947051308
SNP_P4_184303_18198	NW_004518611.1	Scaffold4088	18198	CC	TT	1947051310
SNP_P4_184304_18304	NW_004518611.1	Scaffold4088	18304	GG	AA	1947051312
SNP_P4_184305_24341	NW_004518611.1	Scaffold4088	24341	GG	AA	1947051314
SNP_P4_184306_19313	NW_004518612.1	Scaffold4089	19313	CC	GG	1947051316
SNP_P4_184307_19322	NW_004518612.1	Scaffold4089	19322	GG	AA	1947051318
SNP_P4_184308_19323	NW_004518612.1	Scaffold4089	19323	TT	AA	1947051320
SNP_P4_184309_19484	NW_004518612.1	Scaffold4089	19484	GG	TT	1947051322
SNP_P4_184310_19546	NW_004518612.1	Scaffold4089	19546	AA	TT	1947051324
SNP_P4_184311_19547	NW_004518612.1	Scaffold4089	19547	TT	CC	1947051326
SNP_P4_184312_279	NW_004518620.1	Scaffold4100	279	AA	GG	1947051328
SNP_P4_184313_499	NW_004518620.1	Scaffold4100	499	TT	GG	1947051330
SNP_P4_184314_1358	NW_004518623.1	Scaffold4106	1358	CC	AA	1947051332
SNP_P4_184315_2297	NW_004518624.1	Scaffold4107	2297	TT	AA	1947051334
SNP_P4_184316_2298	NW_004518624.1	Scaffold4107	2298	TT	AA	1947051336
SNP_P4_184317_9621	NW_004518624.1	Scaffold4107	9621	AA	TT	1947051338
SNP_P4_184319_4542	NW_004518625.1	Scaffold4108	4542	AA	GG	1947051341
SNP_P4_184321_4954	NW_004518625.1	Scaffold4108	4954	GG	CC	1947051343
SNP_P4_184322_4968	NW_004518625.1	Scaffold4108	4968	GG	AA	1947051345
SNP_P4_184323_4972	NW_004518625.1	Scaffold4108	4972	CC	AA	1947051347
SNP_P4_184324_5100	NW_004518625.1	Scaffold4108	5100	GG	CC	1947051349
SNP_P4_184325_5169	NW_004518625.1	Scaffold4108	5169	CC	GG	1947051351
SNP_P4_184326_5261	NW_004518625.1	Scaffold4108	5261	AA	GG	1947051353
SNP_P4_184327_5320	NW_004518625.1	Scaffold4108	5320	GG	AA	1947051355
SNP_P4_184328_5465	NW_004518625.1	Scaffold4108	5465	GG	AA	1947051357
SNP_P4_184329_6309	NW_004518625.1	Scaffold4108	6309	AA	TT	1947051359
SNP_P4_184330_6348	NW_004518625.1	Scaffold4108	6348	TT	CC	1947051361
SNP_P4_184331_6349	NW_004518625.1	Scaffold4108	6349	TT	CC	1947051363
SNP_P4_184332_6357	NW_004518625.1	Scaffold4108	6357	AA	GG	1947051365
SNP_P4_184333_8156	NW_004518625.1	Scaffold4108	8156	TT	CC	1947051367
SNP_P4_184334_8514	NW_004518625.1	Scaffold4108	8514	GG	AA	1947051369
SNP_P4_184335_8728	NW_004518625.1	Scaffold4108	8728	AA	TT	1947051371
SNP_P4_184337_9833	NW_004518625.1	Scaffold4108	9833	GG	AA	1947051373
SNP_P4_184338_11476	NW_004518625.1	Scaffold4108	11476	CC	AA	1947051375
SNP_P4_184339_15932	NW_004518625.1	Scaffold4108	15932	CC	GG	1947051377
SNP_P4_184340_470	NW_004518632.1	Scaffold4117	470	TT	GG	1947051379
SNP_P4_184341_495	NW_004518632.1	Scaffold4117	495	AA	GG	1947051381
SNP_P4_184342_11381	NW_004518633.1	Scaffold4118	11381	CC	TT	1947051383
SNP_P4_184343_11862	NW_004518633.1	Scaffold4118	11862	GG	CC	1947051385
SNP_P4_184344_11919	NW_004518633.1	Scaffold4118	11919	AA	GG	1947051387

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_184346_15302	NW_004518633.1	Scaffold4118	15302	TT	AA	1947051391
SNP_P4_184347_15307	NW_004518633.1	Scaffold4118	15307	GG	AA	1947051393
SNP_P4_184348_15900	NW_004518633.1	Scaffold4118	15900	AA	TT	1947051395
SNP_P4_184349_15910	NW_004518633.1	Scaffold4118	15910	TT	AA	1947051397
SNP_P4_184350_15919	NW_004518633.1	Scaffold4118	15919	CC	GG	1947051400
SNP_P4_184351_18884	NW_004518633.1	Scaffold4118	18884	CC	AA	1947051402
SNP_P4_184352_18890	NW_004518633.1	Scaffold4118	18890	AA	GG	1947051404
SNP_P4_184353_18924	NW_004518633.1	Scaffold4118	18924	GG	AA	1947051406
SNP_P4_184354_18935	NW_004518633.1	Scaffold4118	18935	CC	AA	1947051408
SNP_P4_184355_21389	NW_004518633.1	Scaffold4118	21389	AA	GG	1947051410
SNP_P4_184356_21819	NW_004518633.1	Scaffold4118	21819	TT	CC	1947051412
SNP_P4_184357_22091	NW_004518633.1	Scaffold4118	22091	AA	GG	1947051414
SNP_P4_184358_22175	NW_004518633.1	Scaffold4118	22175	TT	AA	1947051416
SNP_P4_184359_26004	NW_004518633.1	Scaffold4118	26004	AA	CC	1947051418
SNP_P4_184360_26645	NW_004518633.1	Scaffold4118	26645	CC	AA	1947051420
SNP_P4_184361_27055	NW_004518633.1	Scaffold4118	27055	AA	TT	1947051422
SNP_P4_184362_68	NW_004518636.1	Scaffold4122	68	CC	TT	1947051424
SNP_P4_184363_404	NW_004518636.1	Scaffold4122	404	AA	GG	1947051426
SNP_P4_184364_225	NW_004518645.1	Scaffold4139	225	AA	GG	1947051428
SNP_P4_184365_642	NW_004518647.1	Scaffold4141	642	AA	GG	1947051430
SNP_P4_184366_654	NW_004518647.1	Scaffold4141	654	AA	GG	1947051432
SNP_P4_184367_658	NW_004518647.1	Scaffold4141	658	TT	GG	1947051434
SNP_P4_184368_2156	NW_004518648.1	Scaffold4142	2156	GG	AA	1947051436
SNP_P4_184369_2184	NW_004518648.1	Scaffold4142	2184	AA	CC	1947051438
SNP_P4_184370_2240	NW_004518648.1	Scaffold4142	2240	TT	AA	1947051440
SNP_P4_184371_2505	NW_004518648.1	Scaffold4142	2505	AA	CC	1947051442
SNP_P4_184372_2566	NW_004518648.1	Scaffold4142	2566	TT	GG	1947051444
SNP_P4_184373_2584	NW_004518648.1	Scaffold4142	2584	TT	CC	1947051446
SNP_P4_184374_2785	NW_004518648.1	Scaffold4142	2785	GG	AA	1947051448
SNP_P4_184375_2806	NW_004518648.1	Scaffold4142	2806	GG	AA	1947051450
SNP_P4_184376_2895	NW_004518648.1	Scaffold4142	2895	AA	GG	1947051452
SNP_P4_184377_3121	NW_004518648.1	Scaffold4142	3121	GG	AA	1947051454
SNP_P4_184378_5611	NW_004518648.1	Scaffold4142	5611	CC	TT	1947051456
SNP_P4_184379_10703	NW_004518648.1	Scaffold4142	10703	CC	AA	1947051458
SNP_P4_184380_10708	NW_004518648.1	Scaffold4142	10708	GG	AA	1947051460
SNP_P4_184381_12814	NW_004518648.1	Scaffold4142	12814	GG	AA	1947051462
SNP_P4_184382_12893	NW_004518648.1	Scaffold4142	12893	AA	GG	1947051464
SNP_P4_184383_13191	NW_004518648.1	Scaffold4142	13191	CC	TT	1947051467
SNP_P4_184384_13332	NW_004518648.1	Scaffold4142	13332	TT	GG	1947051469
SNP_P4_184385_13336	NW_004518648.1	Scaffold4142	13336	AA	TT	1947051471
SNP_P4_184386_13344	NW_004518648.1	Scaffold4142	13344	CC	TT	1947051473

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_184388_13650	NW_004518648.1	Scaffold4142	13650	AA	CC	1947051477
SNP_P4_184389_13711	NW_004518648.1	Scaffold4142	13711	AA	TT	1947051479
SNP_P4_184390_13767	NW_004518648.1	Scaffold4142	13767	TT	CC	1947051481
SNP_P4_184391_13961	NW_004518648.1	Scaffold4142	13961	TT	CC	1947051483
SNP_P4_184392_13963	NW_004518648.1	Scaffold4142	13963	TT	CC	1947051485
SNP_P4_184393_13965	NW_004518648.1	Scaffold4142	13965	AA	TT	1947051487
SNP_P4_184394_11313	NW_004518652.1	Scaffold4149	11313	TT	CC	1947051489
SNP_P4_184395_11349	NW_004518652.1	Scaffold4149	11349	TT	AA	1947051491
SNP_P4_184396_11430	NW_004518652.1	Scaffold4149	11430	GG	AA	1947051493
SNP_P4_184397_11709	NW_004518652.1	Scaffold4149	11709	AA	CC	1947051495
SNP_P4_184398_11723	NW_004518652.1	Scaffold4149	11723	CC	TT	1947051497
SNP_P4_184399_11748	NW_004518652.1	Scaffold4149	11748	TT	CC	1947051499
SNP_P4_184400_11762	NW_004518652.1	Scaffold4149	11762	AA	CC	1947051501
SNP_P4_184401_11763	NW_004518652.1	Scaffold4149	11763	CC	TT	1947051503
SNP_P4_184402_11806	NW_004518652.1	Scaffold4149	11806	GG	AA	1947051505
SNP_P4_184403_11808	NW_004518652.1	Scaffold4149	11808	GG	AA	1947051507
SNP_P4_184404_12428	NW_004518652.1	Scaffold4149	12428	AA	GG	1947051509
SNP_P4_184405_12474	NW_004518652.1	Scaffold4149	12474	GG	CC	1947051511
SNP_P4_184406_12507	NW_004518652.1	Scaffold4149	12507	AA	GG	1947051513
SNP_P4_184407_12534	NW_004518652.1	Scaffold4149	12534	TT	CC	1947051515
SNP_P4_184408_12805	NW_004518652.1	Scaffold4149	12805	AA	GG	1947051517
SNP_P4_184409_1286	NW_004518654.1	Scaffold4155	1286	GG	CC	1947051519
SNP_P4_184411_7117	NW_004518654.1	Scaffold4155	7117	CC	TT	1947051521
SNP_P4_184412_8708	NW_004518654.1	Scaffold4155	8708	CC	TT	1947051523
SNP_P4_184413_11292	NW_004518654.1	Scaffold4155	11292	AA	CC	1947051525
SNP_P4_184414_11293	NW_004518654.1	Scaffold4155	11293	TT	AA	1947051528
SNP_P4_184415_11327	NW_004518654.1	Scaffold4155	11327	TT	CC	1947051530
SNP_P4_184416_11575	NW_004518654.1	Scaffold4155	11575	AA	CC	1947051532
SNP_P4_184417_11576	NW_004518654.1	Scaffold4155	11576	TT	CC	1947051534
SNP_P4_184418_12194	NW_004518654.1	Scaffold4155	12194	AA	CC	1947051536
SNP_P4_184419_12384	NW_004518654.1	Scaffold4155	12384	TT	CC	1947051538
SNP_P4_184420_12385	NW_004518654.1	Scaffold4155	12385	AA	CC	1947051540
SNP_P4_184421_16505	NW_004518654.1	Scaffold4155	16505	CC	TT	1947051542
SNP_P4_184422_16735	NW_004518654.1	Scaffold4155	16735	TT	AA	1947051544
SNP_P4_184423_17388	NW_004518654.1	Scaffold4155	17388	GG	TT	1947051546
SNP_P4_184424_19483	NW_004518654.1	Scaffold4155	19483	AA	GG	1947051548
SNP_P4_184425_19512	NW_004518654.1	Scaffold4155	19512	GG	CC	1947051550
SNP_P4_184426_19520	NW_004518654.1	Scaffold4155	19520	AA	TT	1947051552
SNP_P4_184427_20461	NW_004518654.1	Scaffold4155	20461	GG	TT	1947051554
SNP_P4_184428_21445	NW_004518654.1	Scaffold4155	21445	TT	CC	1947051556
SNP_P4_184429_21807	NW_004518654.1	Scaffold4155	21807	AA	TT	1947051558

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_184431_4023	NW_004518656.1	Scaffold4157	4023	GG	AA	1947051562
SNP_P4_184432_8427	NW_004518656.1	Scaffold4157	8427	CC	GG	1947051564
SNP_P4_184433_8477	NW_004518656.1	Scaffold4157	8477	AA	CC	1947051566
SNP_P4_184434_8839	NW_004518656.1	Scaffold4157	8839	TT	GG	1947051568
SNP_P4_184435_8866	NW_004518656.1	Scaffold4157	8866	GG	AA	1947051570
SNP_P4_184436_9093	NW_004518656.1	Scaffold4157	9093	CC	GG	1947051572
SNP_P4_184437_9437	NW_004518656.1	Scaffold4157	9437	CC	TT	1947051574
SNP_P4_184438_9446	NW_004518656.1	Scaffold4157	9446	CC	GG	1947051576
SNP_P4_184439_9459	NW_004518656.1	Scaffold4157	9459	AA	TT	1947051578
SNP_P4_184440_9503	NW_004518656.1	Scaffold4157	9503	AA	GG	1947051580
SNP_P4_184441_9885	NW_004518656.1	Scaffold4157	9885	AA	TT	1947051582
SNP_P4_184442_9940	NW_004518656.1	Scaffold4157	9940	TT	CC	1947051584
SNP_P4_184443_10199	NW_004518656.1	Scaffold4157	10199	CC	AA	1947051586
SNP_P4_184444_10215	NW_004518656.1	Scaffold4157	10215	AA	GG	1947051588
SNP_P4_184445_10338	NW_004518656.1	Scaffold4157	10338	CC	TT	1947051589
SNP_P4_184446_10487	NW_004518656.1	Scaffold4157	10487	AA	TT	1947051591
SNP_P4_184447_10583	NW_004518656.1	Scaffold4157	10583	TT	GG	1947051593
SNP_P4_184448_10601	NW_004518656.1	Scaffold4157	10601	CC	AA	1947051595
SNP_P4_184449_10709	NW_004518656.1	Scaffold4157	10709	CC	TT	1947051597
SNP_P4_184450_10722	NW_004518656.1	Scaffold4157	10722	CC	AA	1947051599
SNP_P4_184451_10804	NW_004518656.1	Scaffold4157	10804	CC	TT	1947051601
SNP_P4_184452_10805	NW_004518656.1	Scaffold4157	10805	AA	GG	1947051603
SNP_P4_184453_10806	NW_004518656.1	Scaffold4157	10806	CC	AA	1947051605
SNP_P4_184454_10808	NW_004518656.1	Scaffold4157	10808	CC	GG	1947051607
SNP_P4_184455_10809	NW_004518656.1	Scaffold4157	10809	CC	TT	1947051609
SNP_P4_184456_11014	NW_004518656.1	Scaffold4157	11014	GG	TT	1947051611
SNP_P4_184457_11816	NW_004518656.1	Scaffold4157	11816	GG	TT	1947051613
SNP_P4_184458_12487	NW_004518656.1	Scaffold4157	12487	TT	CC	1947051615
SNP_P4_184459_754	NW_004518657.1	Scaffold4158	754	AA	TT	1947051617
SNP_P4_184460_829	NW_004518657.1	Scaffold4158	829	TT	AA	1947051619
SNP_P4_184461_917	NW_004518657.1	Scaffold4158	917	TT	GG	1947051621
SNP_P4_184462_975	NW_004518657.1	Scaffold4158	975	TT	AA	1947051623
SNP_P4_184463_3739	NW_004518665.1	Scaffold4167	3739	AA	TT	1947051625
SNP_P4_184464_3740	NW_004518665.1	Scaffold4167	3740	TT	GG	1947051627
SNP_P4_184465_3767	NW_004518665.1	Scaffold4167	3767	GG	AA	1947051628
SNP_P4_184466_4033	NW_004518665.1	Scaffold4167	4033	AA	GG	1947051630
SNP_P4_184467_4069	NW_004518665.1	Scaffold4167	4069	AA	GG	1947051632
SNP_P4_184468_4109	NW_004518665.1	Scaffold4167	4109	TT	CC	1947051634
SNP_P4_184469_4112	NW_004518665.1	Scaffold4167	4112	AA	CC	1947051636
SNP_P4_184470_4133	NW_004518665.1	Scaffold4167	4133	TT	CC	1947051638
SNP_P4_184471_4152	NW_004518665.1	Scaffold4167	4152	CC	TT	1947051640

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_184472_4191	NW_004518665.1	Scaffold4167	4191	AA	CC	1947051642
SNP_P4_184473_4221	NW_004518665.1	Scaffold4167	4221	TT	AA	1947051644
SNP_P4_184474_4246	NW_004518665.1	Scaffold4167	4246	TT	GG	1947051646
SNP_P4_184475_4277	NW_004518665.1	Scaffold4167	4277	TT	CC	1947051648
SNP_P4_184476_8265	NW_004518665.1	Scaffold4167	8265	TT	CC	1947051650
SNP_P4_184477_20723	NW_004518665.1	Scaffold4167	20723	AA	GG	1947051652
SNP_P4_184478_30951	NW_004518665.1	Scaffold4167	30951	CC	TT	1947051654
SNP_P4_184479_30952	NW_004518665.1	Scaffold4167	30952	AA	GG	1947051656
SNP_P4_184480_33066	NW_004518665.1	Scaffold4167	33066	TT	GG	1947051658
SNP_P4_184481_33279	NW_004518665.1	Scaffold4167	33279	CC	TT	1947051660
SNP_P4_184482_33314	NW_004518665.1	Scaffold4167	33314	AA	GG	1947051663
SNP_P4_184483_33315	NW_004518665.1	Scaffold4167	33315	CC	AA	1947051665
SNP_P4_184484_33399	NW_004518665.1	Scaffold4167	33399	TT	GG	1947051667
SNP_P4_184485_33511	NW_004518665.1	Scaffold4167	33511	TT	CC	1947051669
SNP_P4_184486_33547	NW_004518665.1	Scaffold4167	33547	AA	GG	1947051671
SNP_P4_184488_33628	NW_004518665.1	Scaffold4167	33628	CC	TT	1947051674
SNP_P4_184489_33672	NW_004518665.1	Scaffold4167	33672	CC	TT	1947051676
SNP_P4_184490_3666	NW_004518666.1	Scaffold4168	3666	GG	AA	1947051678
SNP_P4_184492_581	NW_004518669.1	Scaffold4171	581	TT	AA	1947051680
SNP_P4_184493_585	NW_004518669.1	Scaffold4171	585	AA	GG	1947051682
SNP_P4_184494_800	NW_004518669.1	Scaffold4171	800	AA	GG	1947051684
SNP_P4_184496_1015	NW_004518669.1	Scaffold4171	1015	AA	GG	1947051686
SNP_P4_184498_612	NW_004518672.1	Scaffold4176	612	AA	GG	1947051688
SNP_P4_184499_685	NW_004518672.1	Scaffold4176	685	GG	AA	1947051690
SNP_P4_184500_718	NW_004518672.1	Scaffold4176	718	AA	GG	1947051692
SNP_P4_184501_1014	NW_004518672.1	Scaffold4176	1014	TT	CC	1947051694
SNP_P4_184502_1050	NW_004518672.1	Scaffold4176	1050	TT	CC	1947051696
SNP_P4_184503_1051	NW_004518672.1	Scaffold4176	1051	GG	AA	1947051698
SNP_P4_184504_1130	NW_004518672.1	Scaffold4176	1130	GG	AA	1947051700
SNP_P4_184506_4062	NW_004518672.1	Scaffold4176	4062	AA	GG	1947051702
SNP_P4_184507_4148	NW_004518672.1	Scaffold4176	4148	AA	TT	1947051704
SNP_P4_184508_4195	NW_004518672.1	Scaffold4176	4195	AA	TT	1947051706
SNP_P4_184509_4383	NW_004518672.1	Scaffold4176	4383	GG	AA	1947051708
SNP_P4_184510_4438	NW_004518672.1	Scaffold4176	4438	AA	TT	1947051710
SNP_P4_184511_4448	NW_004518672.1	Scaffold4176	4448	AA	TT	1947051712
SNP_P4_184512_4461	NW_004518672.1	Scaffold4176	4461	AA	TT	1947051714
SNP_P4_184513_4549	NW_004518672.1	Scaffold4176	4549	GG	AA	1947051716
SNP_P4_184514_4550	NW_004518672.1	Scaffold4176	4550	GG	AA	1947051718
SNP_P4_184515_4561	NW_004518672.1	Scaffold4176	4561	AA	GG	1947051720
SNP_P4_184516_4565	NW_004518672.1	Scaffold4176	4565	CC	GG	1947051722
SNP_P4_184517_4688	NW_004518672.1	Scaffold4176	4688	TT	CC	1947051724
SNP_P4_184518_4735	NW_004518672.1	Scaffold4176	4735	AA	CC	1947051726

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_184520_6585	NW_004518672.1	Scaffold4176	6585	AA	TT	1947051730
SNP_P4_184521_7563	NW_004518672.1	Scaffold4176	7563	AA	TT	1947051732
SNP_P4_184522_7671	NW_004518672.1	Scaffold4176	7671	AA	GG	1947051734
SNP_P4_184523_7775	NW_004518672.1	Scaffold4176	7775	GG	AA	1947051736
SNP_P4_184524_7810	NW_004518672.1	Scaffold4176	7810	GG	AA	1947051738
SNP_P4_184525_7903	NW_004518672.1	Scaffold4176	7903	CC	TT	1947051740
SNP_P4_184526_7928	NW_004518672.1	Scaffold4176	7928	CC	AA	1947051742
SNP_P4_184527_7987	NW_004518672.1	Scaffold4176	7987	GG	AA	1947051744
SNP_P4_184528_8005	NW_004518672.1	Scaffold4176	8005	AA	GG	1947051746
SNP_P4_184529_8045	NW_004518672.1	Scaffold4176	8045	AA	CC	1947051748
SNP_P4_184530_8109	NW_004518672.1	Scaffold4176	8109	GG	TT	1947051750
SNP_P4_184531_8148	NW_004518672.1	Scaffold4176	8148	CC	TT	1947051752
SNP_P4_184532_8153	NW_004518672.1	Scaffold4176	8153	GG	AA	1947051754
SNP_P4_184533_8174	NW_004518672.1	Scaffold4176	8174	CC	TT	1947051756
SNP_P4_184535_10728	NW_004518672.1	Scaffold4176	10728	TT	CC	1947051758
SNP_P4_184536_17197	NW_004518672.1	Scaffold4176	17197	TT	GG	1947051760
SNP_P4_184537_17278	NW_004518672.1	Scaffold4176	17278	AA	TT	1947051762
SNP_P4_184538_17328	NW_004518672.1	Scaffold4176	17328	TT	CC	1947051764
SNP_P4_184539_17516	NW_004518672.1	Scaffold4176	17516	TT	CC	1947051766
SNP_P4_184540_18948	NW_004518672.1	Scaffold4176	18948	AA	GG	1947051768
SNP_P4_184541_276	NW_004518673.1	Scaffold4178	276	CC	TT	1947051770
SNP_P4_184542_590	NW_004518673.1	Scaffold4178	590	CC	TT	1947051772
SNP_P4_184543_715	NW_004518673.1	Scaffold4178	715	AA	CC	1947051774
SNP_P4_184544_716	NW_004518673.1	Scaffold4178	716	CC	AA	1947051776
SNP_P4_184545_771	NW_004518673.1	Scaffold4178	771	AA	GG	1947051778
SNP_P4_184546_367	NW_004518676.1	Scaffold4182	367	AA	GG	1947051780
SNP_P4_184547_871	NW_004518676.1	Scaffold4182	871	GG	AA	1947051782
SNP_P4_184548_7546	NW_004518676.1	Scaffold4182	7546	CC	GG	1947051784
SNP_P4_184549_7889	NW_004518676.1	Scaffold4182	7889	TT	CC	1947051786
SNP_P4_184550_7913	NW_004518676.1	Scaffold4182	7913	AA	GG	1947051788
SNP_P4_184551_7939	NW_004518676.1	Scaffold4182	7939	TT	CC	1947051790
SNP_P4_184552_7945	NW_004518676.1	Scaffold4182	7945	AA	GG	1947051792
SNP_P4_184553_8015	NW_004518676.1	Scaffold4182	8015	AA	GG	1947051794
SNP_P4_184554_8041	NW_004518676.1	Scaffold4182	8041	GG	AA	1947051796
SNP_P4_184555_8395	NW_004518676.1	Scaffold4182	8395	TT	AA	1947051798
SNP_P4_184556_8662	NW_004518676.1	Scaffold4182	8662	AA	GG	1947051800
SNP_P4_184557_8676	NW_004518676.1	Scaffold4182	8676	GG	CC	1947051802
SNP_P4_184558_9104	NW_004518676.1	Scaffold4182	9104	GG	TT	1947051804
SNP_P4_184559_9108	NW_004518676.1	Scaffold4182	9108	TT	CC	1947051806
SNP_P4_184560_9118	NW_004518676.1	Scaffold4182	9118	AA	GG	1947051808
SNP_P4_184561_9194	NW_004518676.1	Scaffold4182	9194	CC	TT	1947051810

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_184563_9227	NW_004518676.1	Scaffold4182	9227	AA	GG	1947051814
SNP_P4_184564_9429	NW_004518676.1	Scaffold4182	9429	AA	GG	1947051816
SNP_P4_184565_14482	NW_004518681.1	Scaffold4189	14482	GG	AA	1947051818
SNP_P4_184566_21879	NW_004518681.1	Scaffold4189	21879	TT	GG	1947051820
SNP_P4_184567_21951	NW_004518681.1	Scaffold4189	21951	TT	AA	1947051822
SNP_P4_184568_22154	NW_004518681.1	Scaffold4189	22154	TT	CC	1947051824
SNP_P4_184569_22155	NW_004518681.1	Scaffold4189	22155	CC	TT	1947051826
SNP_P4_184570_22173	NW_004518681.1	Scaffold4189	22173	GG	AA	1947051828
SNP_P4_184571_22179	NW_004518681.1	Scaffold4189	22179	GG	TT	1947051830
SNP_P4_184572_22260	NW_004518681.1	Scaffold4189	22260	CC	TT	1947051832
SNP_P4_184573_22466	NW_004518681.1	Scaffold4189	22466	GG	CC	1947051834
SNP_P4_184574_27138	NW_004518681.1	Scaffold4189	27138	AA	GG	1947051836
SNP_P4_184575_41168	NW_004518681.1	Scaffold4189	41168	AA	GG	1947051838
SNP_P4_184576_41527	NW_004518681.1	Scaffold4189	41527	GG	CC	1947051840
SNP_P4_184577_41545	NW_004518681.1	Scaffold4189	41545	AA	GG	1947051842
SNP_P4_184578_41572	NW_004518681.1	Scaffold4189	41572	AA	GG	1947051844
SNP_P4_184579_2780	NW_004518683.1	Scaffold4192	2780	AA	CC	1947051846
SNP_P4_184580_2819	NW_004518683.1	Scaffold4192	2819	TT	CC	1947051848
SNP_P4_184581_2820	NW_004518683.1	Scaffold4192	2820	AA	CC	1947051850
SNP_P4_184582_2899	NW_004518683.1	Scaffold4192	2899	CC	AA	1947051852
SNP_P4_184583_2905	NW_004518683.1	Scaffold4192	2905	GG	AA	1947051854
SNP_P4_184584_3116	NW_004518683.1	Scaffold4192	3116	CC	TT	1947051857
SNP_P4_184585_3189	NW_004518683.1	Scaffold4192	3189	AA	GG	1947051859
SNP_P4_184586_3221	NW_004518683.1	Scaffold4192	3221	AA	GG	1947051861
SNP_P4_184587_3327	NW_004518683.1	Scaffold4192	3327	TT	CC	1947051863
SNP_P4_184588_3380	NW_004518683.1	Scaffold4192	3380	GG	AA	1947051865
SNP_P4_184589_3452	NW_004518683.1	Scaffold4192	3452	AA	GG	1947051867
SNP_P4_184590_3526	NW_004518683.1	Scaffold4192	3526	AA	CC	1947051869
SNP_P4_184591_3608	NW_004518683.1	Scaffold4192	3608	GG	AA	1947051871
SNP_P4_184592_3615	NW_004518683.1	Scaffold4192	3615	AA	GG	1947051873
SNP_P4_184593_3649	NW_004518683.1	Scaffold4192	3649	GG	AA	1947051875
SNP_P4_184596_3821	NW_004518683.1	Scaffold4192	3821	AA	CC	1947051877
SNP_P4_184597_4019	NW_004518683.1	Scaffold4192	4019	GG	TT	1947051879
SNP_P4_184598_4029	NW_004518683.1	Scaffold4192	4029	GG	TT	1947051881
SNP_P4_184599_4054	NW_004518683.1	Scaffold4192	4054	AA	TT	1947051883
SNP_P4_184600_4075	NW_004518683.1	Scaffold4192	4075	TT	AA	1947051885
SNP_P4_184601_4098	NW_004518683.1	Scaffold4192	4098	CC	AA	1947051887
SNP_P4_184602_4340	NW_004518683.1	Scaffold4192	4340	GG	AA	1947051889
SNP_P4_184603_4406	NW_004518683.1	Scaffold4192	4406	CC	TT	1947051891
SNP_P4_184604_4500	NW_004518683.1	Scaffold4192	4500	AA	GG	1947051893
SNP_P4_184605_4550	NW_004518683.1	Scaffold4192	4550	GG	AA	1947051895

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_184607_15952	NW_004518687.1	Scaffold4197	15952	GG	AA	1947051899
SNP_P4_184608_15974	NW_004518687.1	Scaffold4197	15974	CC	TT	1947051901
SNP_P4_184609_16019	NW_004518687.1	Scaffold4197	16019	GG	AA	1947051903
SNP_P4_184610_16059	NW_004518687.1	Scaffold4197	16059	AA	GG	1947051905
SNP_P4_184611_16196	NW_004518687.1	Scaffold4197	16196	CC	TT	1947051907
SNP_P4_184613_16392	NW_004518687.1	Scaffold4197	16392	AA	GG	1947051909
SNP_P4_184614_16414	NW_004518687.1	Scaffold4197	16414	GG	TT	1947051911
SNP_P4_184615_16416	NW_004518687.1	Scaffold4197	16416	TT	GG	1947051913
SNP_P4_184616_16488	NW_004518687.1	Scaffold4197	16488	TT	AA	1947051915
SNP_P4_184618_35479	NW_004518687.1	Scaffold4197	35479	CC	GG	1947051917
SNP_P4_184619_70313	NW_004518687.1	Scaffold4197	70313	TT	CC	1947051919
SNP_P4_184620_70323	NW_004518687.1	Scaffold4197	70323	GG	TT	1947051921
SNP_P4_184621_70335	NW_004518687.1	Scaffold4197	70335	AA	GG	1947051923
SNP_P4_184622_75824	NW_004518687.1	Scaffold4197	75824	GG	AA	1947051925
SNP_P4_184623_80686	NW_004518687.1	Scaffold4197	80686	TT	GG	1947051927
SNP_P4_184624_80740	NW_004518687.1	Scaffold4197	80740	GG	AA	1947051930
SNP_P4_184625_80741	NW_004518687.1	Scaffold4197	80741	AA	GG	1947051932
SNP_P4_184626_80764	NW_004518687.1	Scaffold4197	80764	TT	GG	1947051934
SNP_P4_184627_80767	NW_004518687.1	Scaffold4197	80767	TT	GG	1947051936
SNP_P4_184628_80771	NW_004518687.1	Scaffold4197	80771	AA	GG	1947051938
SNP_P4_184629_181	NW_004518695.1	Scaffold4210	181	AA	CC	1947051940
SNP_P4_184630_297	NW_004518695.1	Scaffold4210	297	AA	CC	1947051942
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SNP_P4_184632_6667	NW_004518696.1	Scaffold4211	6667	GG	TT	1947051946
SNP_P4_184633_9072	NW_004518696.1	Scaffold4211	9072	GG	AA	1947051948
SNP_P4_184634_9113	NW_004518696.1	Scaffold4211	9113	GG	AA	1947051950
SNP_P4_184635_9176	NW_004518696.1	Scaffold4211	9176	TT	CC	1947051952
SNP_P4_184636_9227	NW_004518696.1	Scaffold4211	9227	CC	GG	1947051954
SNP_P4_184637_9237	NW_004518696.1	Scaffold4211	9237	TT	CC	1947051956
SNP_P4_184638_9249	NW_004518696.1	Scaffold4211	9249	AA	GG	1947051958
SNP_P4_184639_9252	NW_004518696.1	Scaffold4211	9252	AA	GG	1947051960
SNP_P4_184640_9268	NW_004518696.1	Scaffold4211	9268	CC	TT	1947051962
SNP_P4_184642_9498	NW_004518696.1	Scaffold4211	9498	GG	CC	1947051964
SNP_P4_184643_9504	NW_004518696.1	Scaffold4211	9504	TT	AA	1947051966
SNP_P4_184644_9521	NW_004518696.1	Scaffold4211	9521	GG	AA	1947051968
SNP_P4_184645_9522	NW_004518696.1	Scaffold4211	9522	CC	AA	1947051970
SNP_P4_184646_9523	NW_004518696.1	Scaffold4211	9523	AA	TT	1947051972
SNP_P4_184647_9525	NW_004518696.1	Scaffold4211	9525	CC	TT	1947051974
SNP_P4_184648_9533	NW_004518696.1	Scaffold4211	9533	TT	CC	1947051976
SNP_P4_184649_627	NW_004518697.1	Scaffold4212	627	CC	GG	1947051978
SNP_P4_184650_727	NW_004518697.1	Scaffold4212	727	TT	CC	1947051980

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_184652_2050	NW_004518698.1	Scaffold4213	2050	TT	CC	1947051984
SNP_P4_184653_2272	NW_004518698.1	Scaffold4213	2272	TT	AA	1947051986
SNP_P4_184654_2319	NW_004518698.1	Scaffold4213	2319	TT	CC	1947051988
SNP_P4_184655_2473	NW_004518698.1	Scaffold4213	2473	CC	GG	1947051990
SNP_P4_184657_2774	NW_004518698.1	Scaffold4213	2774	CC	TT	1947051992
SNP_P4_184658_2776	NW_004518698.1	Scaffold4213	2776	AA	GG	1947051994
SNP_P4_184659_5179	NW_004518701.1	Scaffold4219	5179	GG	AA	1947051996
SNP_P4_184660_5189	NW_004518701.1	Scaffold4219	5189	TT	CC	1947051998
SNP_P4_184661_5485	NW_004518701.1	Scaffold4219	5485	TT	CC	1947052000
SNP_P4_184662_5495	NW_004518701.1	Scaffold4219	5495	GG	AA	1947052002
SNP_P4_184663_5507	NW_004518701.1	Scaffold4219	5507	CC	TT	1947052004
SNP_P4_184664_5508	NW_004518701.1	Scaffold4219	5508	TT	CC	1947052006
SNP_P4_184665_5515	NW_004518701.1	Scaffold4219	5515	AA	GG	1947052008
SNP_P4_184666_5531	NW_004518701.1	Scaffold4219	5531	CC	TT	1947052010
SNP_P4_184667_70	NW_004518702.1	Scaffold4220	70	TT	CC	1947052012
SNP_P4_184668_466	NW_004518702.1	Scaffold4220	466	AA	TT	1947052013
SNP_P4_184669_489	NW_004518702.1	Scaffold4220	489	GG	TT	1947052014
SNP_P4_184670_64	NW_004518703.1	Scaffold4221	64	CC	TT	1947052015
SNP_P4_184671_105	NW_004518703.1	Scaffold4221	105	GG	AA	1947052016
SNP_P4_184672_111	NW_004518703.1	Scaffold4221	111	AA	GG	1947052017
SNP_P4_184673_116	NW_004518703.1	Scaffold4221	116	CC	TT	1947052019
SNP_P4_184674_173	NW_004518703.1	Scaffold4221	173	CC	TT	1947052021
SNP_P4_184675_211	NW_004518703.1	Scaffold4221	211	GG	AA	1947052023
SNP_P4_184676_282	NW_004518703.1	Scaffold4221	282	TT	CC	1947052025
SNP_P4_184677_304	NW_004518703.1	Scaffold4221	304	TT	GG	1947052027
SNP_P4_184678_322	NW_004518703.1	Scaffold4221	322	AA	TT	1947052029
SNP_P4_184679_323	NW_004518703.1	Scaffold4221	323	GG	TT	1947052031
SNP_P4_184680_345	NW_004518703.1	Scaffold4221	345	TT	AA	1947052033
SNP_P4_184681_369	NW_004518703.1	Scaffold4221	369	GG	AA	1947052035
SNP_P4_184682_371	NW_004518703.1	Scaffold4221	371	GG	TT	1947052037
SNP_P4_184683_408	NW_004518703.1	Scaffold4221	408	TT	AA	1947052039
SNP_P4_184684_454	NW_004518703.1	Scaffold4221	454	AA	CC	1947052041
SNP_P4_184686_530	NW_004518703.1	Scaffold4221	530	GG	TT	1947052043
SNP_P4_184687_540	NW_004518703.1	Scaffold4221	540	CC	GG	1947052045
SNP_P4_184689_622	NW_004518703.1	Scaffold4221	622	CC	TT	1947052047
SNP_P4_184690_644	NW_004518703.1	Scaffold4221	644	AA	GG	1947052049
SNP_P4_184691_669	NW_004518703.1	Scaffold4221	669	TT	GG	1947052051
SNP_P4_184693_712	NW_004518703.1	Scaffold4221	712	TT	GG	1947052053
SNP_P4_184694_721	NW_004518703.1	Scaffold4221	721	AA	CC	1947052055
SNP_P4_184695_723	NW_004518703.1	Scaffold4221	723	CC	TT	1947052057
SNP_P4_184696_724	NW_004518703.1	Scaffold4221	724	CC	TT	1947052059

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_184697_748	NW_004518703.1	Scaffold4221	748	TT	CC	1947052061
SNP_P4_184698_794	NW_004518703.1	Scaffold4221	794	CC	TT	1947052063
SNP_P4_184699_819	NW_004518703.1	Scaffold4221	819	CC	TT	1947052065
SNP_P4_184700_826	NW_004518703.1	Scaffold4221	826	CC	AA	1947052067
SNP_P4_184701_830	NW_004518703.1	Scaffold4221	830	GG	AA	1947052069
SNP_P4_184702_831	NW_004518703.1	Scaffold4221	831	GG	AA	1947052071
SNP_P4_184703_857	NW_004518703.1	Scaffold4221	857	AA	TT	1947052073
SNP_P4_184704_870	NW_004518703.1	Scaffold4221	870	GG	TT	1947052075
SNP_P4_184705_885	NW_004518703.1	Scaffold4221	885	GG	AA	1947052077
SNP_P4_184706_994	NW_004518703.1	Scaffold4221	994	TT	CC	1947052079
SNP_P4_184707_997	NW_004518703.1	Scaffold4221	997	AA	CC	1947052081
SNP_P4_184708_1002	NW_004518703.1	Scaffold4221	1002	AA	CC	1947052083
SNP_P4_184709_1054	NW_004518703.1	Scaffold4221	1054	AA	GG	1947052085
SNP_P4_184710_1121	NW_004518703.1	Scaffold4221	1121	TT	CC	1947052087
SNP_P4_184711_1180	NW_004518703.1	Scaffold4221	1180	CC	GG	1947052089
SNP_P4_184712_1908	NW_004518703.1	Scaffold4221	1908	AA	GG	1947052091
SNP_P4_184713_1916	NW_004518703.1	Scaffold4221	1916	AA	GG	1947052093
SNP_P4_184714_1980	NW_004518703.1	Scaffold4221	1980	CC	TT	1947052095
SNP_P4_184715_2002	NW_004518703.1	Scaffold4221	2002	CC	TT	1947052097
SNP_P4_184716_2024	NW_004518703.1	Scaffold4221	2024	AA	GG	1947052099
SNP_P4_184717_2053	NW_004518703.1	Scaffold4221	2053	AA	GG	1947052101
SNP_P4_184718_7386	NW_004518703.1	Scaffold4221	7386	AA	TT	1947052103
SNP_P4_184719_7388	NW_004518703.1	Scaffold4221	7388	TT	AA	1947052105
SNP_P4_184720_7398	NW_004518703.1	Scaffold4221	7398	TT	CC	1947052107
SNP_P4_184722_7774	NW_004518703.1	Scaffold4221	7774	AA	GG	1947052109
SNP_P4_184723_8040	NW_004518703.1	Scaffold4221	8040	AA	TT	1947052111
SNP_P4_184724_12545	NW_004518703.1	Scaffold4221	12545	TT	CC	1947052113
SNP_P4_184725_12953	NW_004518703.1	Scaffold4221	12953	GG	AA	1947052115
SNP_P4_184726_14246	NW_004518703.1	Scaffold4221	14246	GG	AA	1947052117
SNP_P4_184727_15293	NW_004518703.1	Scaffold4221	15293	CC	TT	1947052119
SNP_P4_184728_20726	NW_004518703.1	Scaffold4221	20726	GG	AA	1947052121
SNP_P4_184729_40684	NW_004518703.1	Scaffold4221	40684	AA	CC	1947052123
SNP_P4_184730_40851	NW_004518703.1	Scaffold4221	40851	GG	AA	1947052125
SNP_P4_184731_40926	NW_004518703.1	Scaffold4221	40926	GG	AA	1947052127
SNP_P4_184732_40978	NW_004518703.1	Scaffold4221	40978	TT	GG	1947052129
SNP_P4_184733_40996	NW_004518703.1	Scaffold4221	40996	AA	GG	1947052131
SNP_P4_184734_41019	NW_004518703.1	Scaffold4221	41019	AA	GG	1947052133
SNP_P4_184735_41198	NW_004518703.1	Scaffold4221	41198	GG	TT	1947052135
SNP_P4_184736_41214	NW_004518703.1	Scaffold4221	41214	CC	GG	1947052137
SNP_P4_184737_41317	NW_004518703.1	Scaffold4221	41317	AA	GG	1947052140
SNP_P4_184738_41459	NW_004518703.1	Scaffold4221	41459	TT	CC	1947052142
SNP_P4_184739_41501	NW_004518703.1	Scaffold4221	41501	CC	AA	1947052144

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_184740_41502	NW_004518703.1	Scaffold4221	41502	AA	CC	1947052146
SNP_P4_184741_41513	NW_004518703.1	Scaffold4221	41513	TT	AA	1947052148
SNP_P4_184742_41521	NW_004518703.1	Scaffold4221	41521	AA	CC	1947052150
SNP_P4_184743_41570	NW_004518703.1	Scaffold4221	41570	TT	GG	1947052152
SNP_P4_184744_41722	NW_004518703.1	Scaffold4221	41722	TT	CC	1947052154
SNP_P4_184745_42540	NW_004518703.1	Scaffold4221	42540	CC	AA	1947052156
SNP_P4_184746_46465	NW_004518703.1	Scaffold4221	46465	GG	AA	1947052158
SNP_P4_184747_47093	NW_004518703.1	Scaffold4221	47093	TT	AA	1947052160
SNP_P4_184748_48094	NW_004518703.1	Scaffold4221	48094	CC	TT	1947052163
SNP_P4_184749_48114	NW_004518703.1	Scaffold4221	48114	CC	TT	1947052165
SNP_P4_184750_48187	NW_004518703.1	Scaffold4221	48187	TT	GG	1947052167
SNP_P4_184751_48196	NW_004518703.1	Scaffold4221	48196	CC	TT	1947052169
SNP_P4_184752_48199	NW_004518703.1	Scaffold4221	48199	TT	CC	1947052171
SNP_P4_184753_48212	NW_004518703.1	Scaffold4221	48212	AA	GG	1947052173
SNP_P4_184754_48233	NW_004518703.1	Scaffold4221	48233	AA	CC	1947052175
SNP_P4_184755_48248	NW_004518703.1	Scaffold4221	48248	CC	TT	1947052177
SNP_P4_184756_48291	NW_004518703.1	Scaffold4221	48291	CC	TT	1947052179
SNP_P4_184758_48354	NW_004518703.1	Scaffold4221	48354	TT	GG	1947052181
SNP_P4_184759_48413	NW_004518703.1	Scaffold4221	48413	TT	CC	1947052183
SNP_P4_184760_48439	NW_004518703.1	Scaffold4221	48439	GG	AA	1947052185
SNP_P4_184761_48473	NW_004518703.1	Scaffold4221	48473	TT	CC	1947052187
SNP_P4_184762_48560	NW_004518703.1	Scaffold4221	48560	AA	GG	1947052189
SNP_P4_184763_48588	NW_004518703.1	Scaffold4221	48588	GG	AA	1947052191
SNP_P4_184764_48596	NW_004518703.1	Scaffold4221	48596	CC	GG	1947052193
SNP_P4_184765_48625	NW_004518703.1	Scaffold4221	48625	GG	AA	1947052195
SNP_P4_184766_48628	NW_004518703.1	Scaffold4221	48628	CC	AA	1947052197
SNP_P4_184768_52884	NW_004518703.1	Scaffold4221	52884	AA	TT	1947052199
SNP_P4_184769_52885	NW_004518703.1	Scaffold4221	52885	TT	CC	1947052201
SNP_P4_184770_53157	NW_004518703.1	Scaffold4221	53157	AA	GG	1947052203
SNP_P4_184771_53159	NW_004518703.1	Scaffold4221	53159	GG	CC	1947052205
SNP_P4_184772_53160	NW_004518703.1	Scaffold4221	53160	AA	TT	1947052207
SNP_P4_184773_53161	NW_004518703.1	Scaffold4221	53161	CC	AA	1947052209
SNP_P4_184774_53317	NW_004518703.1	Scaffold4221	53317	CC	AA	1947052211
SNP_P4_184775_53351	NW_004518703.1	Scaffold4221	53351	GG	TT	1947052213
SNP_P4_184776_53370	NW_004518703.1	Scaffold4221	53370	CC	TT	1947052215
SNP_P4_184777_53374	NW_004518703.1	Scaffold4221	53374	TT	CC	1947052217
SNP_P4_184778_53387	NW_004518703.1	Scaffold4221	53387	CC	TT	1947052219
SNP_P4_184779_53418	NW_004518703.1	Scaffold4221	53418	AA	TT	1947052221
SNP_P4_184780_53441	NW_004518703.1	Scaffold4221	53441	CC	AA	1947052223
SNP_P4_184781_53448	NW_004518703.1	Scaffold4221	53448	TT	CC	1947052225
SNP_P4_184782_53474	NW_004518703.1	Scaffold4221	53474	AA	GG	1947052227
SNP_P4_184783_53479	NW_004518703.1	Scaffold4221	53479	AA	GG	1947052229

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_184785_53780	NW_004518703.1	Scaffold4221	53780	CC	GG	1947052233
SNP_P4_184786_53861	NW_004518703.1	Scaffold4221	53861	GG	TT	1947052234
SNP_P4_184787_53868	NW_004518703.1	Scaffold4221	53868	AA	TT	1947052236
SNP_P4_184788_54142	NW_004518703.1	Scaffold4221	54142	AA	TT	1947052238
SNP_P4_184789_54164	NW_004518703.1	Scaffold4221	54164	CC	TT	1947052240
SNP_P4_184790_54256	NW_004518703.1	Scaffold4221	54256	TT	GG	1947052242
SNP_P4_184791_54387	NW_004518703.1	Scaffold4221	54387	TT	CC	1947052244
SNP_P4_184793_54499	NW_004518703.1	Scaffold4221	54499	AA	GG	1947052246
SNP_P4_184796_54867	NW_004518703.1	Scaffold4221	54867	TT	CC	1947052248
SNP_P4_184797_54899	NW_004518703.1	Scaffold4221	54899	CC	AA	1947052250
SNP_P4_184798_54900	NW_004518703.1	Scaffold4221	54900	AA	TT	1947052252
SNP_P4_184799_55361	NW_004518703.1	Scaffold4221	55361	TT	GG	1947052254
SNP_P4_184800_66778	NW_004518703.1	Scaffold4221	66778	AA	CC	1947052255
SNP_P4_184801_66789	NW_004518703.1	Scaffold4221	66789	CC	TT	1947052257
SNP_P4_184802_5777	NW_004518706.1	Scaffold4225	5777	TT	CC	1947052259
SNP_P4_184803_7234	NW_004518706.1	Scaffold4225	7234	GG	AA	1947052261
SNP_P4_184804_7278	NW_004518706.1	Scaffold4225	7278	GG	CC	1947052263
SNP_P4_184805_7539	NW_004518706.1	Scaffold4225	7539	CC	GG	1947052265
SNP_P4_184806_7578	NW_004518706.1	Scaffold4225	7578	GG	AA	1947052267
SNP_P4_184807_14293	NW_004518706.1	Scaffold4225	14293	AA	CC	1947052269
SNP_P4_184808_14306	NW_004518706.1	Scaffold4225	14306	AA	TT	1947052271
SNP_P4_184809_14346	NW_004518706.1	Scaffold4225	14346	AA	TT	1947052272
SNP_P4_184810_14561	NW_004518706.1	Scaffold4225	14561	GG	AA	1947052274
SNP_P4_184811_14697	NW_004518706.1	Scaffold4225	14697	GG	AA	1947052276
SNP_P4_184812_14702	NW_004518706.1	Scaffold4225	14702	TT	GG	1947052278
SNP_P4_184813_14740	NW_004518706.1	Scaffold4225	14740	AA	CC	1947052280
SNP_P4_184814_14753	NW_004518706.1	Scaffold4225	14753	TT	AA	1947052282
SNP_P4_184815_7283	NW_004518713.1	Scaffold4236	7283	GG	AA	1947052284
SNP_P4_184816_8182	NW_004518713.1	Scaffold4236	8182	GG	AA	1947052286
SNP_P4_184817_8195	NW_004518713.1	Scaffold4236	8195	TT	CC	1947052288
SNP_P4_184818_8221	NW_004518713.1	Scaffold4236	8221	AA	TT	1947052290
SNP_P4_184819_8235	NW_004518713.1	Scaffold4236	8235	TT	CC	1947052291
SNP_P4_184820_8259	NW_004518713.1	Scaffold4236	8259	AA	TT	1947052293
SNP_P4_184821_8338	NW_004518713.1	Scaffold4236	8338	CC	TT	1947052295
SNP_P4_184822_8392	NW_004518713.1	Scaffold4236	8392	TT	CC	1947052297
SNP_P4_184823_8421	NW_004518713.1	Scaffold4236	8421	GG	CC	1947052299
SNP_P4_184824_8443	NW_004518713.1	Scaffold4236	8443	GG	CC	1947052301
SNP_P4_184825_8485	NW_004518713.1	Scaffold4236	8485	CC	TT	1947052303
SNP_P4_184826_8489	NW_004518713.1	Scaffold4236	8489	CC	TT	1947052305
SNP_P4_184827_8519	NW_004518713.1	Scaffold4236	8519	TT	CC	1947052307
SNP_P4_184828_8565	NW_004518713.1	Scaffold4236	8565	GG	AA	1947052309

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_184830_8607	NW_004518713.1	Scaffold4236	8607	GG	AA	1947052313
SNP_P4_184831_8755	NW_004518713.1	Scaffold4236	8755	CC	AA	1947052315
SNP_P4_184832_8782	NW_004518713.1	Scaffold4236	8782	CC	TT	1947052317
SNP_P4_184833_167	NW_004518715.1	Scaffold4238	167	CC	GG	1947052319
SNP_P4_184834_886	NW_004518715.1	Scaffold4238	886	CC	AA	1947052321
SNP_P4_184835_459	NW_004518717.1	Scaffold4241	459	AA	GG	1947052323
SNP_P4_184836_1613	NW_004518717.1	Scaffold4241	1613	TT	GG	1947052325
SNP_P4_184837_1640	NW_004518717.1	Scaffold4241	1640	GG	CC	1947052327
SNP_P4_184838_1672	NW_004518717.1	Scaffold4241	1672	GG	TT	1947052329
SNP_P4_184839_558	NW_004518718.1	Scaffold4243	558	TT	AA	1947052331
SNP_P4_184840_564	NW_004518718.1	Scaffold4243	564	CC	TT	1947052333
SNP_P4_184841_567	NW_004518718.1	Scaffold4243	567	TT	CC	1947052335
SNP_P4_184842_629	NW_004518718.1	Scaffold4243	629	TT	GG	1947052337
SNP_P4_184843_705	NW_004518718.1	Scaffold4243	705	TT	CC	1947052339
SNP_P4_184844_711	NW_004518718.1	Scaffold4243	711	CC	AA	1947052341
SNP_P4_184845_720	NW_004518718.1	Scaffold4243	720	GG	AA	1947052343
SNP_P4_184846_912	NW_004518718.1	Scaffold4243	912	GG	AA	1947052345
SNP_P4_184847_1028	NW_004518718.1	Scaffold4243	1028	CC	AA	1947052347
SNP_P4_184849_1265	NW_004518718.1	Scaffold4243	1265	GG	AA	1947052349
SNP_P4_184850_1341	NW_004518718.1	Scaffold4243	1341	TT	AA	1947052351
SNP_P4_184851_1375	NW_004518718.1	Scaffold4243	1375	AA	GG	1947052353
SNP_P4_184852_1550	NW_004518718.1	Scaffold4243	1550	TT	CC	1947052355
SNP_P4_184853_1581	NW_004518718.1	Scaffold4243	1581	TT	CC	1947052357
SNP_P4_184854_1781	NW_004518718.1	Scaffold4243	1781	AA	TT	1947052359
SNP_P4_184855_5560	NW_004518718.1	Scaffold4243	5560	TT	GG	1947052361
SNP_P4_184856_5689	NW_004518718.1	Scaffold4243	5689	AA	GG	1947052363
SNP_P4_184857_5693	NW_004518718.1	Scaffold4243	5693	TT	CC	1947052365
SNP_P4_184858_5696	NW_004518718.1	Scaffold4243	5696	CC	AA	1947052367
SNP_P4_184859_5805	NW_004518718.1	Scaffold4243	5805	TT	AA	1947052368
SNP_P4_184860_5815	NW_004518718.1	Scaffold4243	5815	AA	GG	1947052370
SNP_P4_184861_5871	NW_004518718.1	Scaffold4243	5871	AA	GG	1947052372
SNP_P4_184862_5929	NW_004518718.1	Scaffold4243	5929	TT	CC	1947052374
SNP_P4_184863_6262	NW_004518718.1	Scaffold4243	6262	TT	CC	1947052376
SNP_P4_184864_6303	NW_004518718.1	Scaffold4243	6303	CC	TT	1947052378
SNP_P4_184865_6756	NW_004518718.1	Scaffold4243	6756	TT	GG	1947052380
SNP_P4_184866_7121	NW_004518718.1	Scaffold4243	7121	GG	AA	1947052382
SNP_P4_184867_7180	NW_004518718.1	Scaffold4243	7180	TT	CC	1947052384
SNP_P4_184868_7394	NW_004518718.1	Scaffold4243	7394	CC	TT	1947052386
SNP_P4_184869_7467	NW_004518718.1	Scaffold4243	7467	CC	TT	1947052388
SNP_P4_184870_7548	NW_004518718.1	Scaffold4243	7548	TT	CC	1947052390
SNP_P4_184871_7552	NW_004518718.1	Scaffold4243	7552	GG	AA	1947052392

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_184873_14521	NW_004518718.1	Scaffold4243	14521	TT	GG	1947052396
SNP_P4_184874_14559	NW_004518718.1	Scaffold4243	14559	TT	CC	1947052398
SNP_P4_184875_14585	NW_004518718.1	Scaffold4243	14585	AA	CC	1947052400
SNP_P4_184876_14633	NW_004518718.1	Scaffold4243	14633	TT	CC	1947052402
SNP_P4_184877_14678	NW_004518718.1	Scaffold4243	14678	AA	CC	1947052404
SNP_P4_184878_14835	NW_004518718.1	Scaffold4243	14835	TT	AA	1947052406
SNP_P4_184880_15103	NW_004518718.1	Scaffold4243	15103	GG	TT	1947052408
SNP_P4_184881_15755	NW_004518718.1	Scaffold4243	15755	CC	GG	1947052410
SNP_P4_184882_16090	NW_004518718.1	Scaffold4243	16090	GG	AA	1947052412
SNP_P4_184883_16658	NW_004518718.1	Scaffold4243	16658	AA	TT	1947052414
SNP_P4_184884_16716	NW_004518718.1	Scaffold4243	16716	AA	TT	1947052416
SNP_P4_184885_16719	NW_004518718.1	Scaffold4243	16719	TT	GG	1947052418
SNP_P4_184886_16745	NW_004518718.1	Scaffold4243	16745	AA	GG	1947052420
SNP_P4_184888_16958	NW_004518718.1	Scaffold4243	16958	CC	AA	1947052422
SNP_P4_184889_16998	NW_004518718.1	Scaffold4243	16998	GG	TT	1947052424
SNP_P4_184890_17066	NW_004518718.1	Scaffold4243	17066	AA	GG	1947052426
SNP_P4_184891_17082	NW_004518718.1	Scaffold4243	17082	TT	AA	1947052428
SNP_P4_184892_17095	NW_004518718.1	Scaffold4243	17095	CC	TT	1947052429
SNP_P4_184893_17295	NW_004518718.1	Scaffold4243	17295	AA	CC	1947052431
SNP_P4_184894_17485	NW_004518718.1	Scaffold4243	17485	AA	GG	1947052433
SNP_P4_184895_17580	NW_004518718.1	Scaffold4243	17580	AA	GG	1947052435
SNP_P4_184896_17620	NW_004518718.1	Scaffold4243	17620	AA	TT	1947052437
SNP_P4_184897_17671	NW_004518718.1	Scaffold4243	17671	TT	AA	1947052439
SNP_P4_184899_17724	NW_004518718.1	Scaffold4243	17724	CC	TT	1947052441
SNP_P4_184900_17743	NW_004518718.1	Scaffold4243	17743	GG	CC	1947052443
SNP_P4_184901_17831	NW_004518718.1	Scaffold4243	17831	TT	CC	1947052445
SNP_P4_184902_17884	NW_004518718.1	Scaffold4243	17884	TT	CC	1947052447
SNP_P4_184903_17894	NW_004518718.1	Scaffold4243	17894	TT	GG	1947052449
SNP_P4_184904_18010	NW_004518718.1	Scaffold4243	18010	GG	AA	1947052451
SNP_P4_184905_18074	NW_004518718.1	Scaffold4243	18074	TT	CC	1947052453
SNP_P4_184906_18093	NW_004518718.1	Scaffold4243	18093	TT	CC	1947052455
SNP_P4_184908_22578	NW_004518718.1	Scaffold4243	22578	TT	GG	1947052457
SNP_P4_184909_23385	NW_004518718.1	Scaffold4243	23385	TT	AA	1947052459
SNP_P4_184910_23439	NW_004518718.1	Scaffold4243	23439	GG	AA	1947052461
SNP_P4_184911_23450	NW_004518718.1	Scaffold4243	23450	CC	TT	1947052463
SNP_P4_184912_23523	NW_004518718.1	Scaffold4243	23523	TT	CC	1947052465
SNP_P4_184913_23586	NW_004518718.1	Scaffold4243	23586	TT	CC	1947052467
SNP_P4_184914_23671	NW_004518718.1	Scaffold4243	23671	GG	TT	1947052469
SNP_P4_184915_23693	NW_004518718.1	Scaffold4243	23693	AA	CC	1947052471
SNP_P4_184916_23742	NW_004518718.1	Scaffold4243	23742	TT	CC	1947052473
SNP_P4_184917_23750	NW_004518718.1	Scaffold4243	23750	AA	GG	1947052475

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_184918_26781	NW_004518718.1	Scaffold4243	26781	GG	TT	1947052477
SNP_P4_184919_288	NW_004518721.1	Scaffold4247	288	CC	TT	1947052479
SNP_P4_184920_440	NW_004518721.1	Scaffold4247	440	GG	CC	1947052481
SNP_P4_184921_454	NW_004518721.1	Scaffold4247	454	GG	AA	1947052483
SNP_P4_184922_511	NW_004518721.1	Scaffold4247	511	GG	AA	1947052485
SNP_P4_184923_614	NW_004518721.1	Scaffold4247	614	AA	CC	1947052487
SNP_P4_184924_671	NW_004518721.1	Scaffold4247	671	GG	AA	1947052489
SNP_P4_184925_932	NW_004518721.1	Scaffold4247	932	CC	TT	1947052490
SNP_P4_184926_1329	NW_004518721.1	Scaffold4247	1329	CC	GG	1947052492
SNP_P4_184927_1025	NW_004518722.1	Scaffold4248	1025	TT	CC	1947052494
SNP_P4_184928_64	NW_004518724.1	Scaffold4251	64	TT	CC	1947052496
SNP_P4_184929_350	NW_004518724.1	Scaffold4251	350	CC	TT	1947052498
SNP_P4_184930_494	NW_004518724.1	Scaffold4251	494	AA	GG	1947052500
SNP_P4_184931_626	NW_004518724.1	Scaffold4251	626	TT	CC	1947052502
SNP_P4_184932_740	NW_004518724.1	Scaffold4251	740	GG	AA	1947052504
SNP_P4_184933_768	NW_004518724.1	Scaffold4251	768	AA	GG	1947052506
SNP_P4_184934_2854	NW_004518727.1	Scaffold4255	2854	TT	CC	1947052508
SNP_P4_184935_3633	NW_004518727.1	Scaffold4255	3633	AA	GG	1947052510
SNP_P4_184936_3634	NW_004518727.1	Scaffold4255	3634	CC	TT	1947052512
SNP_P4_184937_3682	NW_004518727.1	Scaffold4255	3682	AA	TT	1947052514
SNP_P4_184938_4022	NW_004518727.1	Scaffold4255	4022	TT	GG	1947052516
SNP_P4_184939_4287	NW_004518727.1	Scaffold4255	4287	GG	TT	1947052518
SNP_P4_184940_4643	NW_004518727.1	Scaffold4255	4643	TT	AA	1947052520
SNP_P4_184941_4793	NW_004518727.1	Scaffold4255	4793	CC	TT	1947052522
SNP_P4_184942_4864	NW_004518727.1	Scaffold4255	4864	GG	AA	1947052524
SNP_P4_184943_4946	NW_004518727.1	Scaffold4255	4946	GG	AA	1947052526
SNP_P4_184944_5137	NW_004518727.1	Scaffold4255	5137	CC	AA	1947052528
SNP_P4_184945_5202	NW_004518727.1	Scaffold4255	5202	CC	AA	1947052530
SNP_P4_184946_5588	NW_004518727.1	Scaffold4255	5588	TT	CC	1947052532
SNP_P4_184947_5953	NW_004518727.1	Scaffold4255	5953	GG	AA	1947052534
SNP_P4_184948_5964	NW_004518727.1	Scaffold4255	5964	TT	AA	1947052536
SNP_P4_184950_1728	NW_004518728.1	Scaffold4256	1728	GG	TT	1947052538
SNP_P4_184951_2039	NW_004518728.1	Scaffold4256	2039	CC	GG	1947052540
SNP_P4_184952_2510	NW_004518728.1	Scaffold4256	2510	AA	GG	1947052541
SNP_P4_184953_3091	NW_004518728.1	Scaffold4256	3091	TT	CC	1947052543
SNP_P4_184954_3117	NW_004518728.1	Scaffold4256	3117	AA	CC	1947052545
SNP_P4_184955_3165	NW_004518728.1	Scaffold4256	3165	AA	GG	1947052547
SNP_P4_184956_3293	NW_004518728.1	Scaffold4256	3293	TT	CC	1947052549
SNP_P4_184957_3298	NW_004518728.1	Scaffold4256	3298	TT	AA	1947052551
SNP_P4_184958_3393	NW_004518728.1	Scaffold4256	3393	AA	CC	1947052553
SNP_P4_184959_4766	NW_004518729.1	Scaffold4257	4766	GG	AA	1947052555
SNP_P4_184960_4767	NW_004518729.1	Scaffold4257	4767	GG	AA	1947052557

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_184961_4768	NW_004518729.1	Scaffold4257	4768	GG	AA	1947052559
SNP_P4_184962_4769	NW_004518729.1	Scaffold4257	4769	GG	AA	1947052561
SNP_P4_184963_4770	NW_004518729.1	Scaffold4257	4770	GG	AA	1947052563
SNP_P4_184964_4773	NW_004518729.1	Scaffold4257	4773	AA	GG	1947052565
SNP_P4_184965_4790	NW_004518729.1	Scaffold4257	4790	TT	GG	1947052567
SNP_P4_184966_4816	NW_004518729.1	Scaffold4257	4816	AA	GG	1947052569
SNP_P4_184967_242	NW_004518730.1	Scaffold4259	242	GG	AA	1947052571
SNP_P4_184968_719	NW_004518730.1	Scaffold4259	719	TT	CC	1947052572
SNP_P4_184969_969	NW_004518730.1	Scaffold4259	969	TT	CC	1947052574
SNP_P4_184970_7561	NW_004518731.1	Scaffold4260	7561	TT	AA	1947052576
SNP_P4_184971_7562	NW_004518731.1	Scaffold4260	7562	CC	AA	1947052578
SNP_P4_184972_7578	NW_004518731.1	Scaffold4260	7578	AA	GG	1947052580
SNP_P4_184973_7584	NW_004518731.1	Scaffold4260	7584	TT	CC	1947052582
SNP_P4_184974_10246	NW_004518731.1	Scaffold4260	10246	CC	TT	1947052584
SNP_P4_184975_10255	NW_004518731.1	Scaffold4260	10255	TT	AA	1947052586
SNP_P4_184976_10363	NW_004518731.1	Scaffold4260	10363	TT	CC	1947052588
SNP_P4_184977_10379	NW_004518731.1	Scaffold4260	10379	TT	AA	1947052590
SNP_P4_184978_10405	NW_004518731.1	Scaffold4260	10405	CC	AA	1947052592
SNP_P4_184979_10431	NW_004518731.1	Scaffold4260	10431	GG	AA	1947052594
SNP_P4_184980_11928	NW_004518731.1	Scaffold4260	11928	CC	GG	1947052596
SNP_P4_184981_11940	NW_004518731.1	Scaffold4260	11940	AA	GG	1947052598
SNP_P4_184982_64	NW_004518733.1	Scaffold4263	64	AA	GG	1947052600
SNP_P4_184983_80	NW_004518733.1	Scaffold4263	80	AA	GG	1947052602
SNP_P4_184984_101	NW_004518733.1	Scaffold4263	101	TT	CC	1947052604
SNP_P4_184985_104	NW_004518733.1	Scaffold4263	104	CC	TT	1947052606
SNP_P4_184986_106	NW_004518733.1	Scaffold4263	106	TT	GG	1947052608
SNP_P4_184987_113	NW_004518733.1	Scaffold4263	113	AA	TT	1947052609
SNP_P4_184988_143	NW_004518733.1	Scaffold4263	143	TT	CC	1947052611
SNP_P4_184989_454	NW_004518733.1	Scaffold4263	454	CC	TT	1947052613
SNP_P4_184990_4333	NW_004518733.1	Scaffold4263	4333	AA	GG	1947052615
SNP_P4_184991_4351	NW_004518733.1	Scaffold4263	4351	CC	TT	1947052617
SNP_P4_184992_4377	NW_004518733.1	Scaffold4263	4377	CC	AA	1947052619
SNP_P4_184993_4378	NW_004518733.1	Scaffold4263	4378	TT	AA	1947052621
SNP_P4_184994_4380	NW_004518733.1	Scaffold4263	4380	GG	TT	1947052623
SNP_P4_184995_4721	NW_004518733.1	Scaffold4263	4721	CC	TT	1947052625
SNP_P4_184996_4746	NW_004518733.1	Scaffold4263	4746	AA	CC	1947052627
SNP_P4_184997_4760	NW_004518733.1	Scaffold4263	4760	CC	AA	1947052629
SNP_P4_184998_4761	NW_004518733.1	Scaffold4263	4761	GG	TT	1947052631
SNP_P4_184999_4774	NW_004518733.1	Scaffold4263	4774	GG	AA	1947052633
SNP_P4_185000_4779	NW_004518733.1	Scaffold4263	4779	GG	AA	1947052635
SNP_P4_185001_4901	NW_004518733.1	Scaffold4263	4901	AA	CC	1947052637
SNP_P4_185002_4902	NW_004518733.1	Scaffold4263	4902	CC	AA	1947052639

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_185003_18733	NW_004518733.1	Scaffold4263	18733	CC	TT	1947052641
SNP_P4_185004_368	NW_004518734.1	Scaffold4265	368	TT	GG	1947052643
SNP_P4_185005_2657	NW_004518734.1	Scaffold4265	2657	CC	GG	1947052644
SNP_P4_185007_7042	NW_004518734.1	Scaffold4265	7042	TT	GG	1947052646
SNP_P4_185008_7050	NW_004518734.1	Scaffold4265	7050	TT	CC	1947052648
SNP_P4_185009_7110	NW_004518734.1	Scaffold4265	7110	GG	AA	1947052650
SNP_P4_185011_7122	NW_004518734.1	Scaffold4265	7122	CC	AA	1947052652
SNP_P4_185012_7124	NW_004518734.1	Scaffold4265	7124	CC	TT	1947052654
SNP_P4_185013_7574	NW_004518734.1	Scaffold4265	7574	GG	AA	1947052656
SNP_P4_185014_7599	NW_004518734.1	Scaffold4265	7599	AA	GG	1947052658
SNP_P4_185015_11415	NW_004518736.1	Scaffold4269	11415	AA	GG	1947052660
SNP_P4_185017_11711	NW_004518736.1	Scaffold4269	11711	GG	CC	1947052662
SNP_P4_185018_22485	NW_004518736.1	Scaffold4269	22485	AA	CC	1947052664
SNP_P4_185019_22488	NW_004518736.1	Scaffold4269	22488	GG	AA	1947052666
SNP_P4_185020_22600	NW_004518736.1	Scaffold4269	22600	CC	AA	1947052668
SNP_P4_185021_22662	NW_004518736.1	Scaffold4269	22662	AA	CC	1947052670
SNP_P4_185022_22707	NW_004518736.1	Scaffold4269	22707	CC	TT	1947052671
SNP_P4_185023_22736	NW_004518736.1	Scaffold4269	22736	CC	AA	1947052673
SNP_P4_185024_26894	NW_004518736.1	Scaffold4269	26894	GG	TT	1947052675
SNP_P4_185025_30271	NW_004518736.1	Scaffold4269	30271	TT	CC	1947052677
SNP_P4_185026_30372	NW_004518736.1	Scaffold4269	30372	TT	CC	1947052679
SNP_P4_185027_9186	NW_004518741.1	Scaffold4277	9186	TT	CC	1947052680
SNP_P4_185028_9434	NW_004518741.1	Scaffold4277	9434	CC	GG	1947052681
SNP_P4_185029_9440	NW_004518741.1	Scaffold4277	9440	AA	CC	1947052682
SNP_P4_185030_9445	NW_004518741.1	Scaffold4277	9445	AA	CC	1947052684
SNP_P4_185031_9447	NW_004518741.1	Scaffold4277	9447	GG	AA	1947052686
SNP_P4_185032_9481	NW_004518741.1	Scaffold4277	9481	AA	GG	1947052688
SNP_P4_185033_9523	NW_004518741.1	Scaffold4277	9523	AA	CC	1947052690
SNP_P4_185034_18521	NW_004518741.1	Scaffold4277	18521	CC	TT	1947052692
SNP_P4_185035_18534	NW_004518741.1	Scaffold4277	18534	AA	CC	1947052694
SNP_P4_185036_18608	NW_004518741.1	Scaffold4277	18608	GG	TT	1947052696
SNP_P4_185037_18639	NW_004518741.1	Scaffold4277	18639	TT	CC	1947052698
SNP_P4_185038_18656	NW_004518741.1	Scaffold4277	18656	GG	AA	1947052700
SNP_P4_185039_18674	NW_004518741.1	Scaffold4277	18674	GG	TT	1947052702
SNP_P4_185040_18678	NW_004518741.1	Scaffold4277	18678	TT	GG	1947052704
SNP_P4_185041_2468	NW_004518742.1	Scaffold4279	2468	TT	CC	1947052706
SNP_P4_185042_288	NW_004518745.1	Scaffold4285	288	GG	AA	1947052708
SNP_P4_185043_538	NW_004518747.1	Scaffold4287	538	AA	TT	1947052710
SNP_P4_185044_1050	NW_004518747.1	Scaffold4287	1050	CC	TT	1947052712
SNP_P4_185045_5136	NW_004518747.1	Scaffold4287	5136	CC	AA	1947052714
SNP_P4_185046_5188	NW_004518747.1	Scaffold4287	5188	GG	AA	1947052716
SNP_P4_185047_5446	NW_004518751.1	Scaffold4291	5446	TT	CC	1947052718

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_185049_2650	NW_004518753.1	Scaffold4293	2650	AA	TT	1947052722
SNP_P4_185050_1898	NW_004518754.1	Scaffold4294	1898	CC	TT	1947052724
SNP_P4_185051_8737	NW_004518754.1	Scaffold4294	8737	TT	CC	1947052726
SNP_P4_185052_9109	NW_004518754.1	Scaffold4294	9109	AA	CC	1947052728
SNP_P4_185053_9127	NW_004518754.1	Scaffold4294	9127	CC	GG	1947052730
SNP_P4_185054_9128	NW_004518754.1	Scaffold4294	9128	TT	AA	1947052732
SNP_P4_185055_493	NW_004518755.1	Scaffold4295	493	CC	TT	1947052734
SNP_P4_185056_503	NW_004518755.1	Scaffold4295	503	AA	CC	1947052736
SNP_P4_185057_523	NW_004518755.1	Scaffold4295	523	GG	CC	1947052738
SNP_P4_185058_535	NW_004518755.1	Scaffold4295	535	CC	TT	1947052740
SNP_P4_185059_536	NW_004518755.1	Scaffold4295	536	CC	TT	1947052742
SNP_P4_185060_572	NW_004518755.1	Scaffold4295	572	AA	TT	1947052744
SNP_P4_185061_1906	NW_004518756.1	Scaffold4296	1906	TT	GG	1947052746
SNP_P4_185062_2061	NW_004518756.1	Scaffold4296	2061	GG	CC	1947052748
SNP_P4_185063_2066	NW_004518756.1	Scaffold4296	2066	AA	CC	1947052750
SNP_P4_185064_2072	NW_004518756.1	Scaffold4296	2072	AA	GG	1947052752
SNP_P4_185065_2077	NW_004518756.1	Scaffold4296	2077	CC	AA	1947052754
SNP_P4_185066_2081	NW_004518756.1	Scaffold4296	2081	TT	CC	1947052756
SNP_P4_185067_2094	NW_004518756.1	Scaffold4296	2094	GG	AA	1947052758
SNP_P4_185068_2096	NW_004518756.1	Scaffold4296	2096	AA	GG	1947052760
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SNP_P4_185070_2160	NW_004518756.1	Scaffold4296	2160	CC	TT	1947052764
SNP_P4_185071_2180	NW_004518756.1	Scaffold4296	2180	AA	GG	1947052766
SNP_P4_185072_2328	NW_004518756.1	Scaffold4296	2328	AA	CC	1947052768
SNP_P4_185073_2430	NW_004518756.1	Scaffold4296	2430	TT	CC	1947052769
SNP_P4_185074_2437	NW_004518756.1	Scaffold4296	2437	TT	AA	1947052771
SNP_P4_185077_158	NW_004518758.1	Scaffold4300	158	TT	GG	1947052773
SNP_P4_185078_261	NW_004518758.1	Scaffold4300	261	TT	CC	1947052775
SNP_P4_185079_476	NW_004518758.1	Scaffold4300	476	TT	GG	1947052777
SNP_P4_185080_483	NW_004518758.1	Scaffold4300	483	TT	CC	1947052779
SNP_P4_185081_524	NW_004518758.1	Scaffold4300	524	AA	GG	1947052781
SNP_P4_185082_1058	NW_004518758.1	Scaffold4300	1058	TT	CC	1947052783
SNP_P4_185083_1090	NW_004518761.1	Scaffold4306	1090	GG	AA	1947052785
SNP_P4_185084_2575	NW_004518765.1	Scaffold4316	2575	TT	CC	1947052787
SNP_P4_185086_5472	NW_004518765.1	Scaffold4316	5472	GG	TT	1947052789
SNP_P4_185087_5474	NW_004518765.1	Scaffold4316	5474	AA	CC	1947052791
SNP_P4_185088_943	NW_004518767.1	Scaffold4319	943	GG	AA	1947052793
SNP_P4_185089_968	NW_004518767.1	Scaffold4319	968	GG	AA	1947052795
SNP_P4_185090_970	NW_004518767.1	Scaffold4319	970	CC	TT	1947052797
SNP_P4_185092_1105	NW_004518767.1	Scaffold4319	1105	AA	CC	1947052799
SNP_P4_185097_1492	NW_004518767.1	Scaffold4319	1492	CC	TT	1947052801

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_185098_1493	NW_004518767.1	Scaffold4319	1493	CC	GG	1947052802
SNP_P4_185101_565	NW_004518771.1	Scaffold4324	565	TT	AA	1947052804
SNP_P4_185102_840	NW_004518777.1	Scaffold4330	840	AA	GG	1947052806
SNP_P4_185103_859	NW_004518777.1	Scaffold4330	859	CC	GG	1947052808
SNP_P4_185104_865	NW_004518777.1	Scaffold4330	865	AA	GG	1947052810
SNP_P4_185105_884	NW_004518777.1	Scaffold4330	884	TT	CC	1947052812
SNP_P4_185106_906	NW_004518777.1	Scaffold4330	906	TT	AA	1947052814
SNP_P4_185107_957	NW_004518777.1	Scaffold4330	957	TT	CC	1947052816
SNP_P4_185108_1637	NW_004518778.1	Scaffold4331	1637	GG	TT	1947052818
SNP_P4_185109_1651	NW_004518778.1	Scaffold4331	1651	GG	TT	1947052820
SNP_P4_185110_2416	NW_004518778.1	Scaffold4331	2416	AA	TT	1947052822
SNP_P4_185111_34625	NW_004518778.1	Scaffold4331	34625	GG	TT	1947052824
SNP_P4_185112_43	NW_004518779.1	Scaffold4333	43	AA	TT	1947052826
SNP_P4_185113_69	NW_004518779.1	Scaffold4333	69	GG	TT	1947052828
SNP_P4_185114_75	NW_004518779.1	Scaffold4333	75	AA	TT	1947052830
SNP_P4_185115_80	NW_004518779.1	Scaffold4333	80	GG	AA	1947052832
SNP_P4_185116_2524	NW_004518781.1	Scaffold4335	2524	GG	TT	1947052834
SNP_P4_185117_2533	NW_004518781.1	Scaffold4335	2533	AA	TT	1947052836
SNP_P4_185118_2588	NW_004518781.1	Scaffold4335	2588	TT	AA	1947052838
SNP_P4_185119_2770	NW_004518781.1	Scaffold4335	2770	TT	GG	1947052840
SNP_P4_185120_231	NW_004518782.1	Scaffold4336	231	GG	AA	1947052841
SNP_P4_185122_3330	NW_004518782.1	Scaffold4336	3330	CC	TT	1947052843
SNP_P4_185124_3507	NW_004518782.1	Scaffold4336	3507	AA	TT	1947052845
SNP_P4_185125_3515	NW_004518782.1	Scaffold4336	3515	TT	AA	1947052847
SNP_P4_185126_3523	NW_004518782.1	Scaffold4336	3523	GG	TT	1947052849
SNP_P4_185127_3524	NW_004518782.1	Scaffold4336	3524	AA	GG	1947052851
SNP_P4_185128_1205	NW_004518786.1	Scaffold4347	1205	TT	AA	1947052853
SNP_P4_185129_484	NW_004518787.1	Scaffold4348	484	AA	TT	1947052855
SNP_P4_185130_821	NW_004518787.1	Scaffold4348	821	TT	AA	1947052861
SNP_P4_185131_822	NW_004518787.1	Scaffold4348	822	TT	CC	1947052863
SNP_P4_185132_1169	NW_004518787.1	Scaffold4348	1169	TT	CC	1947052865
SNP_P4_185133_2126	NW_004518787.1	Scaffold4348	2126	GG	AA	1947052867
SNP_P4_185134_2167	NW_004518787.1	Scaffold4348	2167	AA	TT	1947052869
SNP_P4_185135_2175	NW_004518787.1	Scaffold4348	2175	TT	CC	1947052871
SNP_P4_185136_1733	NW_004518788.1	Scaffold4349	1733	AA	TT	1947052873
SNP_P4_185137_1764	NW_004518788.1	Scaffold4349	1764	GG	TT	1947052875
SNP_P4_185139_1945	NW_004518788.1	Scaffold4349	1945	AA	CC	1947052877
SNP_P4_185140_125	NW_004518791.1	Scaffold4354	125	AA	TT	1947052879
SNP_P4_185141_156	NW_004518791.1	Scaffold4354	156	CC	TT	1947052881
SNP_P4_185142_246	NW_004518791.1	Scaffold4354	246	TT	AA	1947052883
SNP_P4_185143_410	NW_004518791.1	Scaffold4354	410	CC	AA	1947052885
SNP_P4_185144_566	NW_004518791.1	Scaffold4354	566	CC	TT	1947052887

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_185145_613	NW_004518791.1	Scaffold4354	613	AA	GG	1947052889
SNP_P4_185146_1035	NW_004518793.1	Scaffold4357	1035	CC	TT	1947052891
SNP_P4_185148_3186	NW_004518798.1	Scaffold4366	3186	CC	AA	1947052893
SNP_P4_185149_138	NW_004518799.1	Scaffold4367	138	TT	AA	1947052895
SNP_P4_185150_334	NW_004518799.1	Scaffold4367	334	TT	CC	1947052897
SNP_P4_185151_388	NW_004518799.1	Scaffold4367	388	AA	GG	1947052899
SNP_P4_185152_624	NW_004518799.1	Scaffold4367	624	AA	GG	1947052901
SNP_P4_185153_921	NW_004518799.1	Scaffold4367	921	GG	TT	1947052903
SNP_P4_185154_951	NW_004518799.1	Scaffold4367	951	TT	AA	1947052905
SNP_P4_185155_2565	NW_004518799.1	Scaffold4367	2565	TT	AA	1947052907
SNP_P4_185156_2598	NW_004518799.1	Scaffold4367	2598	TT	CC	1947052908
SNP_P4_185157_3400	NW_004518799.1	Scaffold4367	3400	AA	GG	1947052910
SNP_P4_185158_6243	NW_004518799.1	Scaffold4367	6243	GG	AA	1947052912
SNP_P4_185159_6321	NW_004518799.1	Scaffold4367	6321	CC	GG	1947052914
SNP_P4_185160_6359	NW_004518799.1	Scaffold4367	6359	TT	CC	1947052916
SNP_P4_185161_6370	NW_004518799.1	Scaffold4367	6370	AA	GG	1947052918
SNP_P4_185162_6846	NW_004518799.1	Scaffold4367	6846	AA	TT	1947052920
SNP_P4_185163_6970	NW_004518799.1	Scaffold4367	6970	TT	AA	1947052922
SNP_P4_185164_7873	NW_004518799.1	Scaffold4367	7873	TT	GG	1947052924
SNP_P4_185165_7995	NW_004518799.1	Scaffold4367	7995	CC	AA	1947052926
SNP_P4_185166_8163	NW_004518799.1	Scaffold4367	8163	TT	GG	1947052928
SNP_P4_185167_8640	NW_004518799.1	Scaffold4367	8640	AA	GG	1947052930
SNP_P4_185168_9226	NW_004518799.1	Scaffold4367	9226	TT	AA	1947052932
SNP_P4_185169_9264	NW_004518799.1	Scaffold4367	9264	AA	CC	1947052934
SNP_P4_185170_9777	NW_004518799.1	Scaffold4367	9777	CC	AA	1947052936
SNP_P4_185171_11170	NW_004518799.1	Scaffold4367	11170	GG	AA	1947052938
SNP_P4_185172_11205	NW_004518799.1	Scaffold4367	11205	GG	AA	1947052940
SNP_P4_185173_11217	NW_004518799.1	Scaffold4367	11217	AA	CC	1947052941
SNP_P4_185174_11218	NW_004518799.1	Scaffold4367	11218	CC	GG	1947052943
SNP_P4_185175_11260	NW_004518799.1	Scaffold4367	11260	CC	TT	1947052945
SNP_P4_185176_11351	NW_004518799.1	Scaffold4367	11351	GG	AA	1947052948
SNP_P4_185177_11386	NW_004518799.1	Scaffold4367	11386	GG	TT	1947052950
SNP_P4_185178_11590	NW_004518799.1	Scaffold4367	11590	CC	TT	1947052952
SNP_P4_185179_11719	NW_004518799.1	Scaffold4367	11719	TT	CC	1947052954
SNP_P4_185181_12561	NW_004518799.1	Scaffold4367	12561	CC	GG	1947052956
SNP_P4_185182_12961	NW_004518799.1	Scaffold4367	12961	AA	CC	1947052958
SNP_P4_185183_13048	NW_004518799.1	Scaffold4367	13048	CC	AA	1947052960
SNP_P4_185184_15879	NW_004518799.1	Scaffold4367	15879	CC	AA	1947052962
SNP_P4_185185_16139	NW_004518799.1	Scaffold4367	16139	TT	GG	1947052964
SNP_P4_185186_23477	NW_004518799.1	Scaffold4367	23477	CC	AA	1947052966
SNP_P4_185188_29809	NW_004518799.1	Scaffold4367	29809	TT	GG	1947052968
SNP_P4_185189_30719	NW_004518799.1	Scaffold4367	30719	GG	CC	1947052970

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_185190_30803	NW_004518799.1	Scaffold4367	30803	TT	GG	1947052972
SNP_P4_185191_30841	NW_004518799.1	Scaffold4367	30841	CC	AA	1947052974
SNP_P4_185192_30842	NW_004518799.1	Scaffold4367	30842	AA	TT	1947052976
SNP_P4_185193_30849	NW_004518799.1	Scaffold4367	30849	CC	TT	1947052978
SNP_P4_185194_31124	NW_004518799.1	Scaffold4367	31124	GG	AA	1947052980
SNP_P4_185195_36234	NW_004518799.1	Scaffold4367	36234	CC	TT	1947052982
SNP_P4_185196_36254	NW_004518799.1	Scaffold4367	36254	GG	AA	1947052984
SNP_P4_185197_1111	NW_004518801.1	Scaffold4371	1111	GG	TT	1947052986
SNP_P4_185199_69	NW_004518804.1	Scaffold4374	69	CC	AA	1947052988
SNP_P4_185201_367	NW_004518804.1	Scaffold4374	367	TT	CC	1947052990
SNP_P4_185202_386	NW_004518804.1	Scaffold4374	386	CC	AA	1947052992
SNP_P4_185203_405	NW_004518804.1	Scaffold4374	405	TT	CC	1947052994
SNP_P4_185204_424	NW_004518804.1	Scaffold4374	424	TT	CC	1947052996
SNP_P4_185205_526	NW_004518804.1	Scaffold4374	526	TT	AA	1947052998
SNP_P4_185206_587	NW_004518804.1	Scaffold4374	587	AA	GG	1947053000
SNP_P4_185207_713	NW_004518804.1	Scaffold4374	713	AA	CC	1947053002
SNP_P4_185208_772	NW_004518804.1	Scaffold4374	772	TT	CC	1947053003
SNP_P4_185209_808	NW_004518804.1	Scaffold4374	808	CC	TT	1947053005
SNP_P4_185210_993	NW_004518804.1	Scaffold4374	993	CC	AA	1947053007
SNP_P4_185211_1000	NW_004518804.1	Scaffold4374	1000	CC	AA	1947053009
SNP_P4_185212_1007	NW_004518804.1	Scaffold4374	1007	CC	AA	1947053011
SNP_P4_185213_1137	NW_004518804.1	Scaffold4374	1137	AA	CC	1947053013
SNP_P4_185216_1905	NW_004518804.1	Scaffold4374	1905	AA	GG	1947053015
SNP_P4_185217_1906	NW_004518804.1	Scaffold4374	1906	GG	AA	1947053017
SNP_P4_185218_1947	NW_004518804.1	Scaffold4374	1947	TT	CC	1947053019
SNP_P4_185219_2170	NW_004518804.1	Scaffold4374	2170	TT	CC	1947053021
SNP_P4_185220_2214	NW_004518804.1	Scaffold4374	2214	AA	GG	1947053023
SNP_P4_185223_11075	NW_004518806.1	Scaffold4377	11075	GG	CC	1947053025
SNP_P4_185224_16873	NW_004518806.1	Scaffold4377	16873	AA	GG	1947053027
SNP_P4_185225_27275	NW_004518806.1	Scaffold4377	27275	GG	TT	1947053029
SNP_P4_185226_27297	NW_004518806.1	Scaffold4377	27297	CC	TT	1947053031
SNP_P4_185227_27324	NW_004518806.1	Scaffold4377	27324	TT	AA	1947053032
SNP_P4_185228_33434	NW_004518806.1	Scaffold4377	33434	GG	TT	1947053034
SNP_P4_185229_33731	NW_004518806.1	Scaffold4377	33731	TT	AA	1947053036
SNP_P4_185230_33735	NW_004518806.1	Scaffold4377	33735	GG	AA	1947053038
SNP_P4_185231_33802	NW_004518806.1	Scaffold4377	33802	GG	CC	1947053040
SNP_P4_185232_34019	NW_004518806.1	Scaffold4377	34019	AA	TT	1947053042
SNP_P4_185233_44266	NW_004518806.1	Scaffold4377	44266	CC	AA	1947053044
SNP_P4_185234_46804	NW_004518806.1	Scaffold4377	46804	GG	TT	1947053046
SNP_P4_185235_46894	NW_004518806.1	Scaffold4377	46894	CC	TT	1947053048
SNP_P4_185236_47106	NW_004518806.1	Scaffold4377	47106	TT	AA	1947053049
SNP_P4_185237_47113	NW_004518806.1	Scaffold4377	47113	AA	GG	1947053051

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_185238_47137	NW_004518806.1	Scaffold4377	47137	TT	AA	1947053053
SNP_P4_185239_47190	NW_004518806.1	Scaffold4377	47190	CC	TT	1947053055
SNP_P4_185240_48233	NW_004518806.1	Scaffold4377	48233	TT	CC	1947053057
SNP_P4_185241_48332	NW_004518806.1	Scaffold4377	48332	AA	CC	1947053059
SNP_P4_185242_48582	NW_004518806.1	Scaffold4377	48582	AA	TT	1947053061
SNP_P4_185243_48601	NW_004518806.1	Scaffold4377	48601	TT	GG	1947053063
SNP_P4_185244_50990	NW_004518806.1	Scaffold4377	50990	TT	AA	1947053065
SNP_P4_185245_892	NW_004518807.1	Scaffold4379	892	CC	AA	1947053067
SNP_P4_185246_897	NW_004518807.1	Scaffold4379	897	TT	AA	1947053069
SNP_P4_185247_11912	NW_004518807.1	Scaffold4379	11912	AA	TT	1947053071
SNP_P4_185248_13592	NW_004518807.1	Scaffold4379	13592	AA	TT	1947053072
SNP_P4_185249_14516	NW_004518807.1	Scaffold4379	14516	AA	CC	1947053074
SNP_P4_185250_19461	NW_004518807.1	Scaffold4379	19461	GG	AA	1947053076
SNP_P4_185251_21266	NW_004518807.1	Scaffold4379	21266	TT	CC	1947053078
SNP_P4_185252_23278	NW_004518807.1	Scaffold4379	23278	GG	TT	1947053080
SNP_P4_185253_23279	NW_004518807.1	Scaffold4379	23279	TT	AA	1947053082
SNP_P4_185254_22613	NW_004518810.1	Scaffold4383	22613	TT	CC	1947053084
SNP_P4_185255_22638	NW_004518810.1	Scaffold4383	22638	AA	CC	1947053086
SNP_P4_185256_22639	NW_004518810.1	Scaffold4383	22639	CC	AA	1947053088
SNP_P4_185257_22640	NW_004518810.1	Scaffold4383	22640	TT	CC	1947053090
SNP_P4_185258_22662	NW_004518810.1	Scaffold4383	22662	AA	GG	1947053092
SNP_P4_185259_22843	NW_004518810.1	Scaffold4383	22843	AA	GG	1947053094
SNP_P4_185260_22882	NW_004518810.1	Scaffold4383	22882	AA	GG	1947053096
SNP_P4_185261_22889	NW_004518810.1	Scaffold4383	22889	AA	GG	1947053098
SNP_P4_185262_22970	NW_004518810.1	Scaffold4383	22970	CC	TT	1947053100
SNP_P4_185263_24861	NW_004518810.1	Scaffold4383	24861	AA	TT	1947053102
SNP_P4_185264_24863	NW_004518810.1	Scaffold4383	24863	GG	CC	1947053104
SNP_P4_185265_24877	NW_004518810.1	Scaffold4383	24877	CC	TT	1947053106
SNP_P4_185266_24884	NW_004518810.1	Scaffold4383	24884	TT	GG	1947053108
SNP_P4_185267_24971	NW_004518810.1	Scaffold4383	24971	CC	TT	1947053110
SNP_P4_185268_25276	NW_004518810.1	Scaffold4383	25276	CC	AA	1947053112
SNP_P4_185269_25295	NW_004518810.1	Scaffold4383	25295	GG	TT	1947053114
SNP_P4_185270_25301	NW_004518810.1	Scaffold4383	25301	TT	CC	1947053116
SNP_P4_185272_863	NW_004518811.1	Scaffold4385	863	GG	AA	1947053118
SNP_P4_185273_885	NW_004518811.1	Scaffold4385	885	CC	AA	1947053120
SNP_P4_185274_6419	NW_004518811.1	Scaffold4385	6419	GG	CC	1947053122
SNP_P4_185275_6425	NW_004518811.1	Scaffold4385	6425	GG	AA	1947053124
SNP_P4_185276_6442	NW_004518811.1	Scaffold4385	6442	TT	CC	1947053126
SNP_P4_185277_6478	NW_004518811.1	Scaffold4385	6478	AA	GG	1947053128
SNP_P4_185278_6479	NW_004518811.1	Scaffold4385	6479	AA	GG	1947053130
SNP_P4_185279_7147	NW_004518811.1	Scaffold4385	7147	AA	GG	1947053132
SNP_P4_185280_7149	NW_004518811.1	Scaffold4385	7149	TT	CC	1947053134

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_185283_7271	NW_004518811.1	Scaffold4385	7271	CC	TT	1947053138
SNP_P4_185284_7669	NW_004518811.1	Scaffold4385	7669	TT	CC	1947053140
SNP_P4_185285_7689	NW_004518811.1	Scaffold4385	7689	TT	CC	1947053142
SNP_P4_185286_7735	NW_004518811.1	Scaffold4385	7735	TT	AA	1947053144
SNP_P4_185287_8209	NW_004518811.1	Scaffold4385	8209	GG	CC	1947053146
SNP_P4_185288_22997	NW_004518811.1	Scaffold4385	22997	GG	AA	1947053148
SNP_P4_185289_105	NW_004518813.1	Scaffold4387	105	TT	AA	1947053150
SNP_P4_185290_133	NW_004518813.1	Scaffold4387	133	AA	CC	1947053151
SNP_P4_185291_156	NW_004518813.1	Scaffold4387	156	CC	TT	1947053153
SNP_P4_185292_163	NW_004518813.1	Scaffold4387	163	CC	AA	1947053155
SNP_P4_185293_367	NW_004518813.1	Scaffold4387	367	CC	TT	1947053157
SNP_P4_185294_622	NW_004518813.1	Scaffold4387	622	TT	AA	1947053159
SNP_P4_185295_699	NW_004518813.1	Scaffold4387	699	TT	CC	1947053161
SNP_P4_185296_807	NW_004518813.1	Scaffold4387	807	AA	TT	1947053163
SNP_P4_185297_903	NW_004518813.1	Scaffold4387	903	TT	CC	1947053165
SNP_P4_185298_932	NW_004518813.1	Scaffold4387	932	GG	AA	1947053167
SNP_P4_185299_1056	NW_004518813.1	Scaffold4387	1056	GG	AA	1947053169
SNP_P4_185300_5232	NW_004518813.1	Scaffold4387	5232	TT	CC	1947053171
SNP_P4_185301_5407	NW_004518813.1	Scaffold4387	5407	TT	GG	1947053173
SNP_P4_185303_5452	NW_004518813.1	Scaffold4387	5452	AA	TT	1947053175
SNP_P4_185304_5476	NW_004518813.1	Scaffold4387	5476	AA	TT	1947053177
SNP_P4_185305_5483	NW_004518813.1	Scaffold4387	5483	AA	TT	1947053179
SNP_P4_185307_5538	NW_004518813.1	Scaffold4387	5538	TT	CC	1947053181
SNP_P4_185308_5560	NW_004518813.1	Scaffold4387	5560	TT	CC	1947053183
SNP_P4_185309_5570	NW_004518813.1	Scaffold4387	5570	GG	AA	1947053185
SNP_P4_185310_5595	NW_004518813.1	Scaffold4387	5595	CC	TT	1947053187
SNP_P4_185311_5613	NW_004518813.1	Scaffold4387	5613	CC	GG	1947053189
SNP_P4_185313_5886	NW_004518813.1	Scaffold4387	5886	CC	GG	1947053191
SNP_P4_185314_5944	NW_004518813.1	Scaffold4387	5944	GG	TT	1947053193
SNP_P4_185315_6583	NW_004518813.1	Scaffold4387	6583	CC	TT	1947053195
SNP_P4_185316_7382	NW_004518813.1	Scaffold4387	7382	GG	AA	1947053197
SNP_P4_185317_319	NW_004518814.1	Scaffold4388	319	AA	GG	1947053199
SNP_P4_185318_339	NW_004518814.1	Scaffold4388	339	GG	AA	1947053201
SNP_P4_185319_400	NW_004518814.1	Scaffold4388	400	AA	CC	1947053203
SNP_P4_185320_404	NW_004518814.1	Scaffold4388	404	AA	CC	1947053205
SNP_P4_185321_414	NW_004518814.1	Scaffold4388	414	TT	GG	1947053207
SNP_P4_185322_422	NW_004518814.1	Scaffold4388	422	GG	AA	1947053209
SNP_P4_185324_500	NW_004518814.1	Scaffold4388	500	CC	TT	1947053210
SNP_P4_185325_521	NW_004518814.1	Scaffold4388	521	TT	CC	1947053212
SNP_P4_185326_543	NW_004518814.1	Scaffold4388	543	TT	GG	1947053214
SNP_P4_185327_627	NW_004518816.1	Scaffold4390	627	AA	GG	1947053216

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_185328_180	NW_004518821.1	Scaffold4398	180	TT	CC	1947053218
SNP_P4_185329_283	NW_004518821.1	Scaffold4398	283	GG	CC	1947053220
SNP_P4_185332_192	NW_004518823.1	Scaffold4402	192	CC	TT	1947053222
SNP_P4_185333_198	NW_004518823.1	Scaffold4402	198	AA	GG	1947053224
SNP_P4_185334_264	NW_004518823.1	Scaffold4402	264	CC	TT	1947053226
SNP_P4_185335_402	NW_004518823.1	Scaffold4402	402	AA	GG	1947053228
SNP_P4_185336_403	NW_004518823.1	Scaffold4402	403	GG	TT	1947053230
SNP_P4_185337_442	NW_004518823.1	Scaffold4402	442	AA	GG	1947053232
SNP_P4_185338_448	NW_004518823.1	Scaffold4402	448	GG	AA	1947053234
SNP_P4_185339_454	NW_004518823.1	Scaffold4402	454	CC	TT	1947053236
SNP_P4_185340_461	NW_004518823.1	Scaffold4402	461	CC	TT	1947053238
SNP_P4_185341_472	NW_004518823.1	Scaffold4402	472	TT	CC	1947053240
SNP_P4_185342_508	NW_004518823.1	Scaffold4402	508	AA	GG	1947053241
SNP_P4_185343_64	NW_004518824.1	Scaffold4404	64	AA	TT	1947053243
SNP_P4_185344_69	NW_004518824.1	Scaffold4404	69	TT	AA	1947053245
SNP_P4_185345_575	NW_004518824.1	Scaffold4404	575	CC	TT	1947053247
SNP_P4_185346_302	NW_004518825.1	Scaffold4405	302	CC	TT	1947053249
SNP_P4_185347_321	NW_004518825.1	Scaffold4405	321	CC	TT	1947053251
SNP_P4_185348_325	NW_004518825.1	Scaffold4405	325	TT	AA	1947053253
SNP_P4_185349_4513	NW_004518825.1	Scaffold4405	4513	GG	TT	1947053255
SNP_P4_185350_523	NW_004518829.1	Scaffold4414	523	AA	CC	1947053257
SNP_P4_185351_2732	NW_004518829.1	Scaffold4414	2732	CC	TT	1947053259
SNP_P4_185352_499	NW_004518832.1	Scaffold4417	499	TT	AA	1947053261
SNP_P4_185353_563	NW_004518832.1	Scaffold4417	563	TT	CC	1947053263
SNP_P4_185354_852	NW_004518832.1	Scaffold4417	852	GG	AA	1947053265
SNP_P4_185355_881	NW_004518832.1	Scaffold4417	881	TT	AA	1947053267
SNP_P4_185356_1124	NW_004518832.1	Scaffold4417	1124	CC	TT	1947053269
SNP_P4_185357_1133	NW_004518832.1	Scaffold4417	1133	TT	CC	1947053271
SNP_P4_185358_1139	NW_004518832.1	Scaffold4417	1139	GG	CC	1947053273
SNP_P4_185359_1151	NW_004518832.1	Scaffold4417	1151	GG	CC	1947053275
SNP_P4_185360_278	NW_004518833.1	Scaffold4418	278	AA	TT	1947053277
SNP_P4_185361_79	NW_004518836.1	Scaffold4424	79	CC	TT	1947053278
SNP_P4_185363_931	NW_004518837.1	Scaffold4426	931	GG	CC	1947053280
SNP_P4_185364_953	NW_004518837.1	Scaffold4426	953	TT	AA	1947053282
SNP_P4_185365_962	NW_004518837.1	Scaffold4426	962	GG	TT	1947053284
SNP_P4_185366_981	NW_004518837.1	Scaffold4426	981	TT	GG	1947053286
SNP_P4_185367_994	NW_004518837.1	Scaffold4426	994	GG	AA	1947053288
SNP_P4_185368_405	NW_004518838.1	Scaffold4427	405	AA	TT	1947053290
SNP_P4_185369_413	NW_004518838.1	Scaffold4427	413	GG	CC	1947053292
SNP_P4_185370_658	NW_004518838.1	Scaffold4427	658	AA	TT	1947053293
SNP_P4_185371_615	NW_004518840.1	Scaffold4431	615	GG	AA	1947053295
SNP_P4_185372_707	NW_004518842.1	Scaffold4434	707	GG	CC	1947053297

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_185373_2699	NW_004518843.1	Scaffold4436	2699	CC	GG	1947053299
SNP_P4_185374_3296	NW_004518843.1	Scaffold4436	3296	TT	GG	1947053301
SNP_P4_185375_3488	NW_004518843.1	Scaffold4436	3488	AA	TT	1947053303
SNP_P4_185376_3491	NW_004518843.1	Scaffold4436	3491	TT	GG	1947053305
SNP_P4_185377_3517	NW_004518843.1	Scaffold4436	3517	AA	CC	1947053307
SNP_P4_185378_3573	NW_004518843.1	Scaffold4436	3573	AA	TT	1947053309
SNP_P4_185379_3598	NW_004518843.1	Scaffold4436	3598	GG	AA	1947053311
SNP_P4_185380_3602	NW_004518843.1	Scaffold4436	3602	TT	AA	1947053313
SNP_P4_185381_3606	NW_004518843.1	Scaffold4436	3606	AA	GG	1947053315
SNP_P4_185382_3631	NW_004518843.1	Scaffold4436	3631	AA	GG	1947053316
SNP_P4_185383_927	NW_004518844.1	Scaffold4437	927	GG	CC	1947053318
SNP_P4_185384_945	NW_004518844.1	Scaffold4437	945	AA	CC	1947053320
SNP_P4_185385_963	NW_004518844.1	Scaffold4437	963	GG	AA	1947053322
SNP_P4_185386_965	NW_004518844.1	Scaffold4437	965	AA	CC	1947053324
SNP_P4_185387_1035	NW_004518844.1	Scaffold4437	1035	GG	AA	1947053326
SNP_P4_185388_1205	NW_004518844.1	Scaffold4437	1205	TT	CC	1947053328
SNP_P4_185389_1253	NW_004518844.1	Scaffold4437	1253	TT	CC	1947053330
SNP_P4_185390_5594	NW_004518845.1	Scaffold4439	5594	CC	GG	1947053332
SNP_P4_185391_5892	NW_004518845.1	Scaffold4439	5892	CC	GG	1947053334
SNP_P4_185392_6124	NW_004518845.1	Scaffold4439	6124	AA	GG	1947053335
SNP_P4_185393_6147	NW_004518845.1	Scaffold4439	6147	TT	AA	1947053337
SNP_P4_185394_6174	NW_004518845.1	Scaffold4439	6174	AA	GG	1947053339
SNP_P4_185395_6207	NW_004518845.1	Scaffold4439	6207	GG	TT	1947053341
SNP_P4_185396_6324	NW_004518845.1	Scaffold4439	6324	AA	TT	1947053343
SNP_P4_185397_6391	NW_004518845.1	Scaffold4439	6391	AA	TT	1947053345
SNP_P4_185398_6392	NW_004518845.1	Scaffold4439	6392	AA	GG	1947053347
SNP_P4_185399_6503	NW_004518845.1	Scaffold4439	6503	AA	GG	1947053349
SNP_P4_185400_6632	NW_004518845.1	Scaffold4439	6632	TT	AA	1947053351
SNP_P4_185401_6677	NW_004518845.1	Scaffold4439	6677	TT	GG	1947053353
SNP_P4_185402_6695	NW_004518845.1	Scaffold4439	6695	GG	TT	1947053355
SNP_P4_185403_6849	NW_004518845.1	Scaffold4439	6849	TT	CC	1947053357
SNP_P4_185404_6851	NW_004518845.1	Scaffold4439	6851	AA	CC	1947053359
SNP_P4_185405_6895	NW_004518845.1	Scaffold4439	6895	AA	CC	1947053361
SNP_P4_185406_6907	NW_004518845.1	Scaffold4439	6907	GG	AA	1947053362
SNP_P4_185407_6913	NW_004518845.1	Scaffold4439	6913	CC	GG	1947053364
SNP_P4_185408_2801	NW_004518855.1	Scaffold4452	2801	CC	TT	1947053366
SNP_P4_185409_5332	NW_004518855.1	Scaffold4452	5332	AA	GG	1947053368
SNP_P4_185410_12965	NW_004518855.1	Scaffold4452	12965	GG	TT	1947053370
SNP_P4_185411_12971	NW_004518855.1	Scaffold4452	12971	TT	CC	1947053372
SNP_P4_185413_13738	NW_004518855.1	Scaffold4452	13738	GG	AA	1947053374
SNP_P4_185414_13778	NW_004518855.1	Scaffold4452	13778	CC	TT	1947053376
SNP_P4_185415_13803	NW_004518855.1	Scaffold4452	13803	GG	AA	1947053378

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_185416_13816	NW_004518855.1	Scaffold4452	13816	TT	CC	1947053380
SNP_P4_185417_13947	NW_004518855.1	Scaffold4452	13947	TT	CC	1947053382
SNP_P4_185418_14387	NW_004518855.1	Scaffold4452	14387	CC	TT	1947053384
SNP_P4_185419_14394	NW_004518855.1	Scaffold4452	14394	GG	CC	1947053386
SNP_P4_185420_14536	NW_004518855.1	Scaffold4452	14536	TT	GG	1947053388
SNP_P4_185421_14551	NW_004518855.1	Scaffold4452	14551	AA	GG	1947053390
SNP_P4_185422_14567	NW_004518855.1	Scaffold4452	14567	CC	TT	1947053392
SNP_P4_185423_14975	NW_004518855.1	Scaffold4452	14975	CC	TT	1947053394
SNP_P4_185424_29414	NW_004518855.1	Scaffold4452	29414	GG	TT	1947053396
SNP_P4_185426_54048	NW_004518855.1	Scaffold4452	54048	CC	TT	1947053398
SNP_P4_185428_86315	NW_004518855.1	Scaffold4452	86315	GG	AA	1947053400
SNP_P4_185430_125871	NW_004518855.1	Scaffold4452	125871	AA	GG	1947053402
SNP_P4_185431_125890	NW_004518855.1	Scaffold4452	125890	CC	AA	1947053404
SNP_P4_185432_125953	NW_004518855.1	Scaffold4452	125953	CC	AA	1947053405
SNP_P4_185433_126016	NW_004518855.1	Scaffold4452	126016	AA	GG	1947053407
SNP_P4_185434_126046	NW_004518855.1	Scaffold4452	126046	CC	AA	1947053409
SNP_P4_185435_126117	NW_004518855.1	Scaffold4452	126117	AA	TT	1947053411
SNP_P4_185436_126121	NW_004518855.1	Scaffold4452	126121	GG	AA	1947053413
SNP_P4_185437_126130	NW_004518855.1	Scaffold4452	126130	CC	TT	1947053415
SNP_P4_185438_126143	NW_004518855.1	Scaffold4452	126143	AA	TT	1947053417
SNP_P4_185439_126144	NW_004518855.1	Scaffold4452	126144	AA	TT	1947053419
SNP_P4_185441_126205	NW_004518855.1	Scaffold4452	126205	GG	AA	1947053421
SNP_P4_185442_126206	NW_004518855.1	Scaffold4452	126206	AA	CC	1947053423
SNP_P4_185443_126281	NW_004518855.1	Scaffold4452	126281	GG	TT	1947053425
SNP_P4_185444_549	NW_004518857.1	Scaffold4455	549	GG	TT	1947053426
SNP_P4_185445_640	NW_004518857.1	Scaffold4455	640	CC	TT	1947053428
SNP_P4_185446_1326	NW_004518857.1	Scaffold4455	1326	TT	CC	1947053430
SNP_P4_185447_1577	NW_004518857.1	Scaffold4455	1577	GG	AA	1947053432
SNP_P4_185448_1587	NW_004518857.1	Scaffold4455	1587	CC	TT	1947053434
SNP_P4_185449_1742	NW_004518857.1	Scaffold4455	1742	CC	TT	1947053436
SNP_P4_185450_238	NW_004518858.1	Scaffold4456	238	CC	TT	1947053438
SNP_P4_185451_604	NW_004518858.1	Scaffold4456	604	TT	AA	1947053440
SNP_P4_185452_230	NW_004518860.1	Scaffold4461	230	CC	TT	1947053442
SNP_P4_185453_254	NW_004518860.1	Scaffold4461	254	AA	GG	1947053444
SNP_P4_185454_2817	NW_004518861.1	Scaffold4462	2817	GG	TT	1947053446
SNP_P4_185455_2833	NW_004518861.1	Scaffold4462	2833	TT	CC	1947053448
SNP_P4_185456_2885	NW_004518861.1	Scaffold4462	2885	TT	CC	1947053450
SNP_P4_185457_2898	NW_004518861.1	Scaffold4462	2898	AA	GG	1947053452
SNP_P4_185458_2904	NW_004518861.1	Scaffold4462	2904	CC	GG	1947053454
SNP_P4_185459_2915	NW_004518861.1	Scaffold4462	2915	CC	TT	1947053456
SNP_P4_185460_2916	NW_004518861.1	Scaffold4462	2916	CC	TT	1947053458
SNP_P4_185461_3059	NW_004518861.1	Scaffold4462	3059	AA	GG	1947053460

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_185462_3064	NW_004518861.1	Scaffold4462	3064	GG	TT	1947053462
SNP_P4_185463_3065	NW_004518861.1	Scaffold4462	3065	AA	GG	1947053464
SNP_P4_185464_3476	NW_004518861.1	Scaffold4462	3476	AA	GG	1947053466
SNP_P4_185465_662	NW_004518862.1	Scaffold4465	662	GG	AA	1947053468
SNP_P4_185466_699	NW_004518862.1	Scaffold4465	699	AA	GG	1947053470
SNP_P4_185467_760	NW_004518862.1	Scaffold4465	760	TT	CC	1947053472
SNP_P4_185468_2369	NW_004518862.1	Scaffold4465	2369	TT	GG	1947053474
SNP_P4_185469_2437	NW_004518862.1	Scaffold4465	2437	TT	AA	1947053476
SNP_P4_185470_655	NW_004518864.1	Scaffold4468	655	TT	AA	1947053478
SNP_P4_185471_650	NW_004518869.1	Scaffold4475	650	GG	CC	1947053479
SNP_P4_185472_1080	NW_004518873.1	Scaffold4481	1080	CC	TT	1947053481
SNP_P4_185473_1669	NW_004518873.1	Scaffold4481	1669	GG	AA	1947053483
SNP_P4_185474_1683	NW_004518873.1	Scaffold4481	1683	TT	AA	1947053485
SNP_P4_185475_1868	NW_004518873.1	Scaffold4481	1868	CC	GG	1947053487
SNP_P4_185476_9577	NW_004518873.1	Scaffold4481	9577	CC	TT	1947053489
SNP_P4_185477_9596	NW_004518873.1	Scaffold4481	9596	CC	TT	1947053491
SNP_P4_185478_9597	NW_004518873.1	Scaffold4481	9597	AA	CC	1947053493
SNP_P4_185479_10363	NW_004518873.1	Scaffold4481	10363	AA	TT	1947053495
SNP_P4_185480_1133	NW_004518881.1	Scaffold4493	1133	GG	AA	1947053497
SNP_P4_185481_63	NW_004518882.1	Scaffold4494	63	TT	GG	1947053499
SNP_P4_185482_69	NW_004518882.1	Scaffold4494	69	CC	GG	1947053501
SNP_P4_185483_391	NW_004518882.1	Scaffold4494	391	TT	AA	1947053503
SNP_P4_185484_438	NW_004518882.1	Scaffold4494	438	CC	TT	1947053505
SNP_P4_185485_474	NW_004518882.1	Scaffold4494	474	TT	CC	1947053507
SNP_P4_185486_104	NW_004518883.1	Scaffold4495	104	AA	TT	1947053509
SNP_P4_185487_1382	NW_004518888.1	Scaffold4503	1382	AA	GG	1947053510
SNP_P4_185488_1638	NW_004518888.1	Scaffold4503	1638	GG	AA	1947053512
SNP_P4_185489_64	NW_004518890.1	Scaffold4505	64	GG	TT	1947053514
SNP_P4_185490_69	NW_004518890.1	Scaffold4505	69	CC	GG	1947053516
SNP_P4_185491_1651	NW_004518890.1	Scaffold4505	1651	GG	TT	1947053518
SNP_P4_185492_1674	NW_004518890.1	Scaffold4505	1674	CC	AA	1947053520
SNP_P4_185493_1683	NW_004518890.1	Scaffold4505	1683	CC	TT	1947053522
SNP_P4_185494_542	NW_004518891.1	Scaffold4506	542	CC	TT	1947053524
SNP_P4_185495_689	NW_004518891.1	Scaffold4506	689	CC	AA	1947053526
SNP_P4_185496_996	NW_004518891.1	Scaffold4506	996	CC	TT	1947053528
SNP_P4_185498_1038	NW_004518891.1	Scaffold4506	1038	CC	AA	1947053530
SNP_P4_185499_1076	NW_004518891.1	Scaffold4506	1076	AA	GG	1947053532
SNP_P4_185500_1104	NW_004518891.1	Scaffold4506	1104	TT	CC	1947053534
SNP_P4_185501_1313	NW_004518891.1	Scaffold4506	1313	AA	GG	1947053536
SNP_P4_185502_442	NW_004518892.1	Scaffold4507	442	GG	AA	1947053537
SNP_P4_185503_2985	NW_004518893.1	Scaffold4508	2985	TT	AA	1947053539
SNP_P4_185505_11619	NW_004518893.1	Scaffold4508	11619	GG	AA	1947053541

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_185506_21426	NW_004518893.1	Scaffold4508	21426	AA	GG	1947053543
SNP_P4_185507_21428	NW_004518893.1	Scaffold4508	21428	TT	CC	1947053545
SNP_P4_185509_32195	NW_004518893.1	Scaffold4508	32195	CC	GG	1947053547
SNP_P4_185510_33633	NW_004518893.1	Scaffold4508	33633	TT	AA	1947053549
SNP_P4_185511_33639	NW_004518893.1	Scaffold4508	33639	AA	TT	1947053551
SNP_P4_185513_33669	NW_004518893.1	Scaffold4508	33669	CC	TT	1947053553
SNP_P4_185515_33696	NW_004518893.1	Scaffold4508	33696	AA	CC	1947053555
SNP_P4_185516_33902	NW_004518893.1	Scaffold4508	33902	CC	AA	1947053557
SNP_P4_185517_34011	NW_004518893.1	Scaffold4508	34011	TT	CC	1947053559
SNP_P4_185518_34040	NW_004518893.1	Scaffold4508	34040	TT	CC	1947053561
SNP_P4_185520_36775	NW_004518893.1	Scaffold4508	36775	TT	AA	1947053563
SNP_P4_185521_36838	NW_004518893.1	Scaffold4508	36838	GG	TT	1947053565
SNP_P4_185522_36840	NW_004518893.1	Scaffold4508	36840	GG	CC	1947053566
SNP_P4_185523_37003	NW_004518893.1	Scaffold4508	37003	CC	TT	1947053568
SNP_P4_185524_37079	NW_004518893.1	Scaffold4508	37079	CC	TT	1947053570
SNP_P4_185525_37098	NW_004518893.1	Scaffold4508	37098	AA	GG	1947053572
SNP_P4_185526_37152	NW_004518893.1	Scaffold4508	37152	GG	AA	1947053574
SNP_P4_185527_115	NW_004518894.1	Scaffold4509	115	GG	TT	1947053576
SNP_P4_185528_116	NW_004518894.1	Scaffold4509	116	TT	GG	1947053578
SNP_P4_185529_383	NW_004518894.1	Scaffold4509	383	AA	GG	1947053580
SNP_P4_185530_512	NW_004518894.1	Scaffold4509	512	TT	CC	1947053582
SNP_P4_185531_527	NW_004518894.1	Scaffold4509	527	GG	AA	1947053584
SNP_P4_185532_555	NW_004518894.1	Scaffold4509	555	AA	CC	1947053586
SNP_P4_185533_767	NW_004518894.1	Scaffold4509	767	GG	CC	1947053588
SNP_P4_185534_802	NW_004518894.1	Scaffold4509	802	AA	TT	1947053590
SNP_P4_185535_942	NW_004518894.1	Scaffold4509	942	CC	TT	1947053592
SNP_P4_185536_954	NW_004518894.1	Scaffold4509	954	CC	TT	1947053594
SNP_P4_185537_1190	NW_004518894.1	Scaffold4509	1190	TT	CC	1947053596
SNP_P4_185538_1193	NW_004518894.1	Scaffold4509	1193	CC	TT	1947053598
SNP_P4_185539_1235	NW_004518894.1	Scaffold4509	1235	GG	AA	1947053600
SNP_P4_185540_1345	NW_004518894.1	Scaffold4509	1345	AA	GG	1947053602
SNP_P4_185541_1369	NW_004518894.1	Scaffold4509	1369	AA	GG	1947053604
SNP_P4_185542_5270	NW_004518895.1	Scaffold4510	5270	GG	TT	1947053606
SNP_P4_185543_2219	NW_004518896.1	Scaffold4511	2219	AA	GG	1947053608
SNP_P4_185544_2268	NW_004518896.1	Scaffold4511	2268	TT	CC	1947053610
SNP_P4_185545_2616	NW_004518896.1	Scaffold4511	2616	GG	TT	1947053612
SNP_P4_185546_11357	NW_004518896.1	Scaffold4511	11357	CC	TT	1947053614
SNP_P4_185547_11370	NW_004518896.1	Scaffold4511	11370	TT	AA	1947053616
SNP_P4_185548_11529	NW_004518896.1	Scaffold4511	11529	CC	GG	1947053618
SNP_P4_185549_11646	NW_004518896.1	Scaffold4511	11646	AA	TT	1947053620
SNP_P4_185550_11695	NW_004518896.1	Scaffold4511	11695	AA	GG	1947053622
SNP_P4_185551_11715	NW_004518896.1	Scaffold4511	11715	GG	AA	1947053624

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_185552_12899	NW_004518896.1	Scaffold4511	12899	AA	TT	1947053626
SNP_P4_185553_13178	NW_004518896.1	Scaffold4511	13178	AA	GG	1947053628
SNP_P4_185554_22734	NW_004518896.1	Scaffold4511	22734	AA	TT	1947053630
SNP_P4_185555_22760	NW_004518896.1	Scaffold4511	22760	TT	CC	1947053632
SNP_P4_185556_22828	NW_004518896.1	Scaffold4511	22828	AA	GG	1947053634
SNP_P4_185559_23071	NW_004518896.1	Scaffold4511	23071	TT	CC	1947053636
SNP_P4_185560_23131	NW_004518896.1	Scaffold4511	23131	TT	AA	1947053638
SNP_P4_185561_23188	NW_004518896.1	Scaffold4511	23188	AA	GG	1947053640
SNP_P4_185562_23267	NW_004518896.1	Scaffold4511	23267	CC	TT	1947053642
SNP_P4_185563_23332	NW_004518896.1	Scaffold4511	23332	GG	CC	1947053644
SNP_P4_185564_27905	NW_004518896.1	Scaffold4511	27905	CC	AA	1947053645
SNP_P4_185565_30661	NW_004518896.1	Scaffold4511	30661	CC	AA	1947053647
SNP_P4_185567_43603	NW_004518896.1	Scaffold4511	43603	AA	GG	1947053649
SNP_P4_185568_43626	NW_004518896.1	Scaffold4511	43626	TT	GG	1947053651
SNP_P4_185569_79	NW_004518898.1	Scaffold4513	79	GG	TT	1947053653
SNP_P4_185570_3140	NW_004518898.1	Scaffold4513	3140	TT	AA	1947053655
SNP_P4_185571_3208	NW_004518898.1	Scaffold4513	3208	AA	GG	1947053657
SNP_P4_185572_3257	NW_004518898.1	Scaffold4513	3257	GG	AA	1947053659
SNP_P4_185573_3271	NW_004518898.1	Scaffold4513	3271	TT	CC	1947053661
SNP_P4_185574_3363	NW_004518898.1	Scaffold4513	3363	TT	CC	1947053663
SNP_P4_185575_3512	NW_004518898.1	Scaffold4513	3512	TT	CC	1947053665
SNP_P4_185576_3540	NW_004518898.1	Scaffold4513	3540	GG	AA	1947053666
SNP_P4_185577_3541	NW_004518898.1	Scaffold4513	3541	CC	TT	1947053667
SNP_P4_185578_3571	NW_004518898.1	Scaffold4513	3571	TT	CC	1947053669
SNP_P4_185579_3683	NW_004518898.1	Scaffold4513	3683	CC	AA	1947053671
SNP_P4_185580_3689	NW_004518898.1	Scaffold4513	3689	GG	AA	1947053673
SNP_P4_185581_443	NW_004518900.1	Scaffold4515	443	CC	AA	1947053675
SNP_P4_185582_456	NW_004518900.1	Scaffold4515	456	AA	CC	1947053677
SNP_P4_185583_458	NW_004518900.1	Scaffold4515	458	TT	AA	1947053679
SNP_P4_185584_475	NW_004518900.1	Scaffold4515	475	GG	AA	1947053681
SNP_P4_185585_756	NW_004518900.1	Scaffold4515	756	GG	CC	1947053683
SNP_P4_185586_450	NW_004518904.1	Scaffold4521	450	GG	AA	1947053685
SNP_P4_185587_1198	NW_004518904.1	Scaffold4521	1198	GG	CC	1947053687
SNP_P4_185588_2256	NW_004518906.1	Scaffold4524	2256	CC	TT	1947053689
SNP_P4_185589_2288	NW_004518906.1	Scaffold4524	2288	TT	CC	1947053691
SNP_P4_185590_400	NW_004518907.1	Scaffold4525	400	AA	TT	1947053693
SNP_P4_185591_790	NW_004518907.1	Scaffold4525	790	CC	TT	1947053695
SNP_P4_185592_819	NW_004518907.1	Scaffold4525	819	AA	GG	1947053697
SNP_P4_185593_822	NW_004518907.1	Scaffold4525	822	TT	GG	1947053699
SNP_P4_185594_942	NW_004518907.1	Scaffold4525	942	AA	GG	1947053701
SNP_P4_185595_615	NW_004518910.1	Scaffold4528	615	CC	TT	1947053703
SNP_P4_185596_894	NW_004518910.1	Scaffold4528	894	AA	GG	1947053705

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_185598_1533	NW_004518910.1	Scaffold4528	1533	AA	TT	1947053709
SNP_P4_185599_462	NW_004518911.1	Scaffold4529	462	TT	GG	1947053711
SNP_P4_185600_1555	NW_004518912.1	Scaffold4530	1555	GG	CC	1947053713
SNP_P4_185601_1606	NW_004518912.1	Scaffold4530	1606	GG	AA	1947053715
SNP_P4_185602_1600	NW_004518913.1	Scaffold4531	1600	TT	AA	1947053717
SNP_P4_185604_300	NW_004518915.1	Scaffold4533	300	TT	GG	1947053719
SNP_P4_185605_486	NW_004518915.1	Scaffold4533	486	GG	TT	1947053721
SNP_P4_185606_2062	NW_004518915.1	Scaffold4533	2062	TT	GG	1947053723
SNP_P4_185607_132	NW_004518916.1	Scaffold4534	132	TT	CC	1947053724
SNP_P4_185608_155	NW_004518916.1	Scaffold4534	155	GG	AA	1947053726
SNP_P4_185609_175	NW_004518916.1	Scaffold4534	175	TT	AA	1947053728
SNP_P4_185610_178	NW_004518916.1	Scaffold4534	178	AA	GG	1947053730
SNP_P4_185611_190	NW_004518916.1	Scaffold4534	190	GG	AA	1947053732
SNP_P4_185612_191	NW_004518916.1	Scaffold4534	191	GG	TT	1947053734
SNP_P4_185613_194	NW_004518916.1	Scaffold4534	194	CC	TT	1947053736
SNP_P4_185614_208	NW_004518916.1	Scaffold4534	208	AA	TT	1947053738
SNP_P4_185615_212	NW_004518916.1	Scaffold4534	212	AA	GG	1947053740
SNP_P4_185616_381	NW_004518916.1	Scaffold4534	381	AA	GG	1947053742
SNP_P4_185617_403	NW_004518916.1	Scaffold4534	403	AA	CC	1947053744
SNP_P4_185618_476	NW_004518916.1	Scaffold4534	476	TT	AA	1947053746
SNP_P4_185619_1136	NW_004518916.1	Scaffold4534	1136	TT	AA	1947053748
SNP_P4_185620_1423	NW_004518916.1	Scaffold4534	1423	AA	TT	1947053750
SNP_P4_185621_2876	NW_004518916.1	Scaffold4534	2876	TT	AA	1947053752
SNP_P4_185622_3046	NW_004518916.1	Scaffold4534	3046	TT	AA	1947053754
SNP_P4_185623_3235	NW_004518916.1	Scaffold4534	3235	GG	AA	1947053756
SNP_P4_185624_1402	NW_004518919.1	Scaffold4538	1402	AA	CC	1947053758
SNP_P4_185625_1412	NW_004518919.1	Scaffold4538	1412	TT	AA	1947053760
SNP_P4_185626_1413	NW_004518919.1	Scaffold4538	1413	AA	TT	1947053762
SNP_P4_185627_1436	NW_004518919.1	Scaffold4538	1436	CC	TT	1947053763
SNP_P4_185628_1439	NW_004518919.1	Scaffold4538	1439	GG	AA	1947053766
SNP_P4_185629_1603	NW_004518919.1	Scaffold4538	1603	GG	AA	1947053768
SNP_P4_185630_1638	NW_004518919.1	Scaffold4538	1638	TT	AA	1947053770
SNP_P4_185631_1656	NW_004518919.1	Scaffold4538	1656	AA	CC	1947053772
SNP_P4_185632_1738	NW_004518919.1	Scaffold4538	1738	AA	GG	1947053774
SNP_P4_185633_1764	NW_004518919.1	Scaffold4538	1764	TT	CC	1947053776
SNP_P4_185634_1808	NW_004518919.1	Scaffold4538	1808	AA	GG	1947053778
SNP_P4_185635_3626	NW_004518919.1	Scaffold4538	3626	AA	CC	1947053780
SNP_P4_185636_3630	NW_004518919.1	Scaffold4538	3630	TT	AA	1947053782
SNP_P4_185637_3641	NW_004518919.1	Scaffold4538	3641	AA	TT	1947053784
SNP_P4_185638_3651	NW_004518919.1	Scaffold4538	3651	TT	GG	1947053786
SNP_P4_185639_3697	NW_004518919.1	Scaffold4538	3697	GG	TT	1947053788

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_185641_4566	NW_004518922.1	Scaffold4543	4566	TT	CC	1947053792
SNP_P4_185642_4685	NW_004518922.1	Scaffold4543	4685	GG	AA	1947053794
SNP_P4_185643_4757	NW_004518922.1	Scaffold4543	4757	TT	CC	1947053796
SNP_P4_185644_5392	NW_004518922.1	Scaffold4543	5392	TT	CC	1947053798
SNP_P4_185645_36	NW_004518924.1	Scaffold4549	36	AA	GG	1947053800
SNP_P4_185646_48	NW_004518924.1	Scaffold4549	48	CC	AA	1947053802
SNP_P4_185647_52	NW_004518924.1	Scaffold4549	52	GG	AA	1947053804
SNP_P4_185648_67	NW_004518924.1	Scaffold4549	67	GG	AA	1947053805
SNP_P4_185649_69	NW_004518924.1	Scaffold4549	69	TT	AA	1947053806
SNP_P4_185650_103	NW_004518924.1	Scaffold4549	103	AA	GG	1947053808
SNP_P4_185651_141	NW_004518924.1	Scaffold4549	141	AA	GG	1947053810
SNP_P4_185652_190	NW_004518924.1	Scaffold4549	190	CC	TT	1947053812
SNP_P4_185653_196	NW_004518924.1	Scaffold4549	196	GG	AA	1947053814
SNP_P4_185654_435	NW_004518924.1	Scaffold4549	435	AA	GG	1947053816
SNP_P4_185655_472	NW_004518924.1	Scaffold4549	472	AA	TT	1947053818
SNP_P4_185656_479	NW_004518924.1	Scaffold4549	479	TT	AA	1947053820
SNP_P4_185657_2751	NW_004518926.1	Scaffold4551	2751	GG	CC	1947053822
SNP_P4_185658_2780	NW_004518926.1	Scaffold4551	2780	AA	TT	1947053824
SNP_P4_185659_2816	NW_004518926.1	Scaffold4551	2816	CC	TT	1947053826
SNP_P4_185660_2817	NW_004518926.1	Scaffold4551	2817	AA	TT	1947053828
SNP_P4_185661_2837	NW_004518926.1	Scaffold4551	2837	CC	TT	1947053830
SNP_P4_185662_2870	NW_004518926.1	Scaffold4551	2870	GG	AA	1947053832
SNP_P4_185663_5784	NW_004518926.1	Scaffold4551	5784	TT	CC	1947053834
SNP_P4_185664_6070	NW_004518926.1	Scaffold4551	6070	GG	AA	1947053836
SNP_P4_185665_6094	NW_004518926.1	Scaffold4551	6094	CC	AA	1947053838
SNP_P4_185666_6439	NW_004518926.1	Scaffold4551	6439	AA	TT	1947053840
SNP_P4_185668_6929	NW_004518926.1	Scaffold4551	6929	TT	CC	1947053842
SNP_P4_185669_16675	NW_004518926.1	Scaffold4551	16675	AA	CC	1947053844
SNP_P4_185670_17106	NW_004518926.1	Scaffold4551	17106	TT	AA	1947053846
SNP_P4_185671_17142	NW_004518926.1	Scaffold4551	17142	CC	AA	1947053848
SNP_P4_185672_18710	NW_004518926.1	Scaffold4551	18710	CC	GG	1947053850
SNP_P4_185673_18832	NW_004518926.1	Scaffold4551	18832	TT	GG	1947053852
SNP_P4_185674_18873	NW_004518926.1	Scaffold4551	18873	GG	CC	1947053853
SNP_P4_185675_18876	NW_004518926.1	Scaffold4551	18876	AA	TT	1947053855
SNP_P4_185676_18895	NW_004518926.1	Scaffold4551	18895	TT	AA	1947053857
SNP_P4_185677_18902	NW_004518926.1	Scaffold4551	18902	TT	AA	1947053859
SNP_P4_185678_19001	NW_004518926.1	Scaffold4551	19001	TT	AA	1947053861
SNP_P4_185679_19006	NW_004518926.1	Scaffold4551	19006	AA	GG	1947053863
SNP_P4_185680_19020	NW_004518926.1	Scaffold4551	19020	GG	TT	1947053865
SNP_P4_185681_19065	NW_004518926.1	Scaffold4551	19065	GG	AA	1947053867
SNP_P4_185682_19066	NW_004518926.1	Scaffold4551	19066	AA	CC	1947053869

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_185684_19122	NW_004518926.1	Scaffold4551	19122	CC	TT	1947053873
SNP_P4_185685_19146	NW_004518926.1	Scaffold4551	19146	TT	CC	1947053875
SNP_P4_185686_19148	NW_004518926.1	Scaffold4551	19148	AA	GG	1947053877
SNP_P4_185687_19154	NW_004518926.1	Scaffold4551	19154	GG	TT	1947053879
SNP_P4_185688_19157	NW_004518926.1	Scaffold4551	19157	TT	CC	1947053881
SNP_P4_185690_19193	NW_004518926.1	Scaffold4551	19193	AA	TT	1947053883
SNP_P4_185691_19213	NW_004518926.1	Scaffold4551	19213	GG	AA	1947053885
SNP_P4_185693_19441	NW_004518926.1	Scaffold4551	19441	GG	AA	1947053887
SNP_P4_185694_2453	NW_004518928.1	Scaffold4554	2453	TT	CC	1947053889
SNP_P4_185695_807	NW_004518930.1	Scaffold4557	807	TT	AA	1947053891
SNP_P4_185696_823	NW_004518930.1	Scaffold4557	823	TT	GG	1947053893
SNP_P4_185697_2625	NW_004518938.1	Scaffold4570	2625	CC	GG	1947053895
SNP_P4_185698_10540	NW_004518938.1	Scaffold4570	10540	GG	CC	1947053897
SNP_P4_185699_10631	NW_004518938.1	Scaffold4570	10631	AA	TT	1947053899
SNP_P4_185700_10686	NW_004518938.1	Scaffold4570	10686	AA	GG	1947053901
SNP_P4_185701_599	NW_004518939.1	Scaffold4572	599	AA	TT	1947053903
SNP_P4_185702_627	NW_004518939.1	Scaffold4572	627	AA	CC	1947053905
SNP_P4_185703_1951	NW_004518939.1	Scaffold4572	1951	CC	AA	1947053907
SNP_P4_185704_2000	NW_004518939.1	Scaffold4572	2000	TT	CC	1947053909
SNP_P4_185705_2009	NW_004518939.1	Scaffold4572	2009	GG	TT	1947053911
SNP_P4_185706_2115	NW_004518939.1	Scaffold4572	2115	GG	AA	1947053913
SNP_P4_185707_2116	NW_004518939.1	Scaffold4572	2116	GG	AA	1947053915
SNP_P4_185708_2298	NW_004518939.1	Scaffold4572	2298	CC	GG	1947053917
SNP_P4_185709_2300	NW_004518939.1	Scaffold4572	2300	TT	CC	1947053919
SNP_P4_185710_2337	NW_004518939.1	Scaffold4572	2337	GG	CC	1947053921
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SNP_P4_185712_2403	NW_004518939.1	Scaffold4572	2403	GG	TT	1947053925
SNP_P4_185713_2422	NW_004518939.1	Scaffold4572	2422	GG	AA	1947053927
SNP_P4_185714_2438	NW_004518939.1	Scaffold4572	2438	AA	TT	1947053929
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SNP_P4_185717_3516	NW_004518939.1	Scaffold4572	3516	AA	GG	1947053933
SNP_P4_185718_3541	NW_004518939.1	Scaffold4572	3541	AA	CC	1947053935
SNP_P4_185719_3622	NW_004518939.1	Scaffold4572	3622	AA	GG	1947053937
SNP_P4_185720_3630	NW_004518939.1	Scaffold4572	3630	CC	TT	1947053940
SNP_P4_185721_3900	NW_004518939.1	Scaffold4572	3900	TT	CC	1947053942
SNP_P4_185722_3925	NW_004518939.1	Scaffold4572	3925	CC	TT	1947053944
SNP_P4_185723_3946	NW_004518939.1	Scaffold4572	3946	CC	TT	1947053947
SNP_P4_185724_4137	NW_004518939.1	Scaffold4572	4137	CC	GG	1947053949
SNP_P4_185725_4169	NW_004518939.1	Scaffold4572	4169	TT	GG	1947053952
SNP_P4_185726_8729	NW_004518939.1	Scaffold4572	8729	CC	AA	1947053955
SNP_P4_185727_8979	NW_004518939.1	Scaffold4572	8979	GG	CC	1947053957

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_185729_9307	NW_004518939.1	Scaffold4572	9307	CC	AA	1947053962
SNP_P4_185730_9309	NW_004518939.1	Scaffold4572	9309	AA	TT	1947053964
SNP_P4_185731_1011	NW_004518940.1	Scaffold4573	1011	GG	TT	1947053967
SNP_P4_185732_1045	NW_004518940.1	Scaffold4573	1045	AA	TT	1947053969
SNP_P4_185733_1061	NW_004518940.1	Scaffold4573	1061	AA	TT	1947053971
SNP_P4_185734_1205	NW_004518940.1	Scaffold4573	1205	AA	CC	1947053974
SNP_P4_185735_2155	NW_004518940.1	Scaffold4573	2155	TT	CC	1947053976
SNP_P4_185736_10825	NW_004518940.1	Scaffold4573	10825	GG	AA	1947053978
SNP_P4_185737_11180	NW_004518940.1	Scaffold4573	11180	CC	GG	1947053980
SNP_P4_185738_685	NW_004518941.1	Scaffold4574	685	AA	GG	1947053982
SNP_P4_185739_566	NW_004518945.1	Scaffold4578	566	GG	CC	1947053984
SNP_P4_185741_826	NW_004518947.1	Scaffold4582	826	TT	CC	1947053986
SNP_P4_185742_1070	NW_004518947.1	Scaffold4582	1070	GG	TT	1947053989
SNP_P4_185743_5878	NW_004518947.1	Scaffold4582	5878	GG	TT	1947053991
SNP_P4_185744_5888	NW_004518947.1	Scaffold4582	5888	AA	GG	1947053993
SNP_P4_185745_6119	NW_004518947.1	Scaffold4582	6119	TT	CC	1947053995
SNP_P4_185746_6371	NW_004518947.1	Scaffold4582	6371	AA	CC	1947053997
SNP_P4_185747_7058	NW_004518947.1	Scaffold4582	7058	GG	AA	1947053999
SNP_P4_185748_7072	NW_004518947.1	Scaffold4582	7072	CC	TT	1947054002
SNP_P4_185749_7155	NW_004518947.1	Scaffold4582	7155	AA	TT	1947054004
SNP_P4_185750_7249	NW_004518947.1	Scaffold4582	7249	CC	AA	1947054006
SNP_P4_185751_7258	NW_004518947.1	Scaffold4582	7258	CC	TT	1947054008
SNP_P4_185752_7295	NW_004518947.1	Scaffold4582	7295	TT	CC	1947054010
SNP_P4_185753_7488	NW_004518947.1	Scaffold4582	7488	TT	AA	1947054013
SNP_P4_185754_7492	NW_004518947.1	Scaffold4582	7492	TT	CC	1947054015
SNP_P4_185755_7570	NW_004518947.1	Scaffold4582	7570	TT	CC	1947054017
SNP_P4_185756_7598	NW_004518947.1	Scaffold4582	7598	TT	AA	1947054020
SNP_P4_185758_7685	NW_004518947.1	Scaffold4582	7685	TT	CC	1947054021
SNP_P4_185759_7692	NW_004518947.1	Scaffold4582	7692	CC	TT	1947054023
SNP_P4_185760_7724	NW_004518947.1	Scaffold4582	7724	TT	CC	1947054025
SNP_P4_185761_7732	NW_004518947.1	Scaffold4582	7732	GG	AA	1947054027
SNP_P4_185762_7803	NW_004518947.1	Scaffold4582	7803	TT	CC	1947054029
SNP_P4_185763_7952	NW_004518947.1	Scaffold4582	7952	AA	GG	1947054031
SNP_P4_185764_7979	NW_004518947.1	Scaffold4582	7979	TT	CC	1947054033
SNP_P4_185765_9112	NW_004518947.1	Scaffold4582	9112	GG	TT	1947054035
SNP_P4_185766_9401	NW_004518947.1	Scaffold4582	9401	CC	GG	1947054037
SNP_P4_185767_9718	NW_004518947.1	Scaffold4582	9718	TT	GG	1947054039
SNP_P4_185768_9805	NW_004518947.1	Scaffold4582	9805	AA	TT	1947054040
SNP_P4_185769_9816	NW_004518947.1	Scaffold4582	9816	AA	GG	1947054042
SNP_P4_185770_11293	NW_004518947.1	Scaffold4582	11293	CC	TT	1947054044
SNP_P4_185771_11432	NW_004518947.1	Scaffold4582	11432	AA	GG	1947054046

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_185772_262	NW_004518948.1	Scaffold4584	262	CC	TT	1947054048
SNP_P4_185773_298	NW_004518948.1	Scaffold4584	298	AA	TT	1947054050
SNP_P4_185774_69	NW_004518949.1	Scaffold4585	69	AA	TT	1947054052
SNP_P4_185775_2941	NW_004518949.1	Scaffold4585	2941	AA	GG	1947054054
SNP_P4_185776_1189	NW_004518951.1	Scaffold4587	1189	AA	TT	1947054056
SNP_P4_185777_2555	NW_004518955.1	Scaffold4591	2555	AA	TT	1947054058
SNP_P4_185778_2715	NW_004518955.1	Scaffold4591	2715	GG	TT	1947054060
SNP_P4_185779_2758	NW_004518955.1	Scaffold4591	2758	GG	AA	1947054062
SNP_P4_185780_1341	NW_004518956.1	Scaffold4592	1341	AA	TT	1947054064
SNP_P4_185781_1240	NW_004518960.1	Scaffold4598	1240	GG	AA	1947054066
SNP_P4_185782_1245	NW_004518960.1	Scaffold4598	1245	CC	AA	1947054067
SNP_P4_185783_539	NW_004518962.1	Scaffold4600	539	GG	AA	1947054069
SNP_P4_185784_872	NW_004518962.1	Scaffold4600	872	GG	AA	1947054071
SNP_P4_185785_905	NW_004518962.1	Scaffold4600	905	AA	TT	1947054073
SNP_P4_185786_1074	NW_004518962.1	Scaffold4600	1074	AA	GG	1947054075
SNP_P4_185787_1308	NW_004518962.1	Scaffold4600	1308	GG	TT	1947054077
SNP_P4_185788_1485	NW_004518962.1	Scaffold4600	1485	TT	GG	1947054079
SNP_P4_185789_1495	NW_004518962.1	Scaffold4600	1495	CC	TT	1947054081
SNP_P4_185790_1650	NW_004518962.1	Scaffold4600	1650	AA	GG	1947054083
SNP_P4_185791_1766	NW_004518962.1	Scaffold4600	1766	TT	GG	1947054085
SNP_P4_185792_1770	NW_004518962.1	Scaffold4600	1770	GG	AA	1947054087
SNP_P4_185793_1825	NW_004518962.1	Scaffold4600	1825	GG	TT	1947054089
SNP_P4_185794_1988	NW_004518962.1	Scaffold4600	1988	AA	TT	1947054091
SNP_P4_185795_5710	NW_004518963.1	Scaffold4602	5710	AA	GG	1947054093
SNP_P4_185796_7707	NW_004518963.1	Scaffold4602	7707	TT	CC	1947054095
SNP_P4_185797_7744	NW_004518963.1	Scaffold4602	7744	AA	GG	1947054097
SNP_P4_185798_7776	NW_004518963.1	Scaffold4602	7776	AA	CC	1947054099
SNP_P4_185799_7826	NW_004518963.1	Scaffold4602	7826	TT	CC	1947054101
SNP_P4_185800_7878	NW_004518963.1	Scaffold4602	7878	AA	GG	1947054103
SNP_P4_185801_7896	NW_004518963.1	Scaffold4602	7896	TT	GG	1947054105
SNP_P4_185802_7947	NW_004518963.1	Scaffold4602	7947	AA	CC	1947054107
SNP_P4_185803_8123	NW_004518963.1	Scaffold4602	8123	TT	CC	1947054108
SNP_P4_185804_8228	NW_004518963.1	Scaffold4602	8228	TT	CC	1947054110
SNP_P4_185805_19323	NW_004518963.1	Scaffold4602	19323	TT	AA	1947054112
SNP_P4_185806_19335	NW_004518963.1	Scaffold4602	19335	GG	AA	1947054114
SNP_P4_185807_19339	NW_004518963.1	Scaffold4602	19339	CC	GG	1947054116
SNP_P4_185808_19359	NW_004518963.1	Scaffold4602	19359	TT	GG	1947054118
SNP_P4_185809_19361	NW_004518963.1	Scaffold4602	19361	AA	GG	1947054120
SNP_P4_185810_19510	NW_004518963.1	Scaffold4602	19510	GG	TT	1947054122
SNP_P4_185811_64	NW_004518965.1	Scaffold4605	64	CC	GG	1947054124
SNP_P4_185812_97	NW_004518965.1	Scaffold4605	97	CC	AA	1947054131
SNP_P4_185813_17030	NW_004518965.1	Scaffold4605	17030	AA	GG	1947054133

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_185814_17063	NW_004518965.1	Scaffold4605	17063	TT	AA	1947054135
SNP_P4_185815_17103	NW_004518965.1	Scaffold4605	17103	AA	CC	1947054137
SNP_P4_185816_17112	NW_004518965.1	Scaffold4605	17112	AA	CC	1947054139
SNP_P4_185817_17113	NW_004518965.1	Scaffold4605	17113	GG	AA	1947054141
SNP_P4_185818_21790	NW_004518965.1	Scaffold4605	21790	GG	AA	1947054143
SNP_P4_185819_21853	NW_004518965.1	Scaffold4605	21853	TT	GG	1947054145
SNP_P4_185820_22248	NW_004518965.1	Scaffold4605	22248	GG	CC	1947054147
SNP_P4_185821_22968	NW_004518965.1	Scaffold4605	22968	CC	AA	1947054148
SNP_P4_185822_23232	NW_004518965.1	Scaffold4605	23232	GG	CC	1947054150
SNP_P4_185823_23305	NW_004518965.1	Scaffold4605	23305	GG	AA	1947054152
SNP_P4_185824_23321	NW_004518965.1	Scaffold4605	23321	GG	AA	1947054154
SNP_P4_185825_23346	NW_004518965.1	Scaffold4605	23346	TT	GG	1947054156
SNP_P4_185826_24417	NW_004518965.1	Scaffold4605	24417	GG	AA	1947054158
SNP_P4_185827_24446	NW_004518965.1	Scaffold4605	24446	GG	CC	1947054160
SNP_P4_185828_24769	NW_004518965.1	Scaffold4605	24769	AA	GG	1947054162
SNP_P4_185830_24879	NW_004518965.1	Scaffold4605	24879	TT	AA	1947054164
SNP_P4_185831_24934	NW_004518965.1	Scaffold4605	24934	TT	AA	1947054166
SNP_P4_185832_24970	NW_004518965.1	Scaffold4605	24970	CC	AA	1947054168
SNP_P4_185833_25092	NW_004518965.1	Scaffold4605	25092	CC	TT	1947054170
SNP_P4_185834_25104	NW_004518965.1	Scaffold4605	25104	AA	TT	1947054172
SNP_P4_185835_25139	NW_004518965.1	Scaffold4605	25139	TT	GG	1947054174
SNP_P4_185836_25308	NW_004518965.1	Scaffold4605	25308	GG	AA	1947054175
SNP_P4_185837_25353	NW_004518965.1	Scaffold4605	25353	AA	CC	1947054177
SNP_P4_185838_1006	NW_004518977.1	Scaffold4627	1006	TT	GG	1947054179
SNP_P4_185840_321	NW_004518978.1	Scaffold4628	321	TT	CC	1947054181
SNP_P4_185841_490	NW_004518978.1	Scaffold4628	490	CC	TT	1947054183
SNP_P4_185842_511	NW_004518978.1	Scaffold4628	511	GG	TT	1947054185
SNP_P4_185843_560	NW_004518978.1	Scaffold4628	560	TT	CC	1947054187
SNP_P4_185844_747	NW_004518978.1	Scaffold4628	747	CC	TT	1947054189
SNP_P4_185845_1158	NW_004518979.1	Scaffold4629	1158	AA	GG	1947054191
SNP_P4_185846_5947	NW_004518979.1	Scaffold4629	5947	CC	TT	1947054193
SNP_P4_185847_5975	NW_004518979.1	Scaffold4629	5975	GG	AA	1947054195
SNP_P4_185848_6006	NW_004518979.1	Scaffold4629	6006	TT	AA	1947054197
SNP_P4_185849_6055	NW_004518979.1	Scaffold4629	6055	GG	AA	1947054199
SNP_P4_185850_6094	NW_004518979.1	Scaffold4629	6094	CC	TT	1947054201
SNP_P4_185851_6140	NW_004518979.1	Scaffold4629	6140	AA	GG	1947054203
SNP_P4_185852_6204	NW_004518979.1	Scaffold4629	6204	GG	AA	1947054205
SNP_P4_185853_6395	NW_004518979.1	Scaffold4629	6395	CC	TT	1947054207
SNP_P4_185854_6397	NW_004518979.1	Scaffold4629	6397	AA	GG	1947054209
SNP_P4_185855_5955	NW_004518980.1	Scaffold4632	5955	AA	CC	1947054211
SNP_P4_185856_1284	NW_004518981.1	Scaffold4633	1284	CC	TT	1947054213
SNP_P4_185857_1618	NW_004518981.1	Scaffold4633	1618	AA	GG	1947054215

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_185858_1636	NW_004518981.1	Scaffold4633	1636	AA	TT	1947054217
SNP_P4_185859_1682	NW_004518981.1	Scaffold4633	1682	TT	AA	1947054219
SNP_P4_185860_1887	NW_004518981.1	Scaffold4633	1887	AA	CC	1947054221
SNP_P4_185861_1910	NW_004518981.1	Scaffold4633	1910	GG	AA	1947054224
SNP_P4_185862_6299	NW_004518982.1	Scaffold4634	6299	CC	AA	1947054226
SNP_P4_185863_6459	NW_004518982.1	Scaffold4634	6459	CC	GG	1947054228
SNP_P4_185864_6687	NW_004518982.1	Scaffold4634	6687	CC	GG	1947054230
SNP_P4_185865_7083	NW_004518982.1	Scaffold4634	7083	AA	TT	1947054232
SNP_P4_185866_3099	NW_004518983.1	Scaffold4635	3099	CC	AA	1947054234
SNP_P4_185867_3104	NW_004518983.1	Scaffold4635	3104	GG	CC	1947054236
SNP_P4_185868_3130	NW_004518983.1	Scaffold4635	3130	CC	TT	1947054238
SNP_P4_185869_3172	NW_004518983.1	Scaffold4635	3172	GG	CC	1947054240
SNP_P4_185870_3176	NW_004518983.1	Scaffold4635	3176	CC	TT	1947054242
SNP_P4_185871_3178	NW_004518983.1	Scaffold4635	3178	AA	GG	1947054244
SNP_P4_185872_9103	NW_004518983.1	Scaffold4635	9103	TT	CC	1947054246
SNP_P4_185873_681	NW_004518984.1	Scaffold4636	681	AA	CC	1947054248
SNP_P4_185874_795	NW_004518986.1	Scaffold4638	795	TT	CC	1947054250
SNP_P4_185875_476	NW_004518989.1	Scaffold4642	476	CC	GG	1947054252
SNP_P4_185876_510	NW_004518989.1	Scaffold4642	510	GG	AA	1947054254
SNP_P4_185877_985	NW_004518989.1	Scaffold4642	985	CC	GG	1947054256
SNP_P4_185878_1276	NW_004518989.1	Scaffold4642	1276	CC	TT	1947054258
SNP_P4_185879_1295	NW_004518989.1	Scaffold4642	1295	AA	CC	1947054260
SNP_P4_185880_1977	NW_004518989.1	Scaffold4642	1977	AA	TT	1947054262
SNP_P4_185881_3352	NW_004518989.1	Scaffold4642	3352	CC	TT	1947054264
SNP_P4_185882_3770	NW_004518989.1	Scaffold4642	3770	AA	GG	1947054266
SNP_P4_185883_24197	NW_004518990.1	Scaffold4643	24197	TT	CC	1947054268
SNP_P4_185884_24245	NW_004518990.1	Scaffold4643	24245	GG	CC	1947054269
SNP_P4_185885_24555	NW_004518990.1	Scaffold4643	24555	TT	GG	1947054271
SNP_P4_185886_24561	NW_004518990.1	Scaffold4643	24561	AA	TT	1947054273
SNP_P4_185887_24581	NW_004518990.1	Scaffold4643	24581	TT	CC	1947054275
SNP_P4_185888_24629	NW_004518990.1	Scaffold4643	24629	CC	TT	1947054277
SNP_P4_185889_62959	NW_004518990.1	Scaffold4643	62959	CC	TT	1947054279
SNP_P4_185890_360	NW_004518992.1	Scaffold4647	360	AA	TT	1947054281
SNP_P4_185891_361	NW_004518992.1	Scaffold4647	361	CC	TT	1947054283
SNP_P4_185892_371	NW_004518992.1	Scaffold4647	371	CC	AA	1947054285
SNP_P4_185893_376	NW_004518992.1	Scaffold4647	376	TT	AA	1947054287
SNP_P4_185894_437	NW_004518992.1	Scaffold4647	437	TT	CC	1947054289
SNP_P4_185895_843	NW_004518992.1	Scaffold4647	843	AA	GG	1947054291
SNP_P4_185896_1190	NW_004518992.1	Scaffold4647	1190	TT	CC	1947054293
SNP_P4_185897_1195	NW_004518992.1	Scaffold4647	1195	GG	AA	1947054294
SNP_P4_185898_1485	NW_004518992.1	Scaffold4647	1485	AA	GG	1947054296
SNP_P4_185899_1608	NW_004518992.1	Scaffold4647	1608	CC	GG	1947054298

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_185900_1645	NW_004518992.1	Scaffold4647	1645	GG	AA	1947054300
SNP_P4_185901_1646	NW_004518992.1	Scaffold4647	1646	TT	AA	1947054302
SNP_P4_185902_1683	NW_004518992.1	Scaffold4647	1683	GG	CC	1947054304
SNP_P4_185903_1684	NW_004518992.1	Scaffold4647	1684	CC	GG	1947054306
SNP_P4_185904_1731	NW_004518992.1	Scaffold4647	1731	TT	AA	1947054308
SNP_P4_185905_1765	NW_004518992.1	Scaffold4647	1765	TT	GG	1947054310
SNP_P4_185906_2040	NW_004518992.1	Scaffold4647	2040	TT	AA	1947054312
SNP_P4_185907_2502	NW_004518992.1	Scaffold4647	2502	GG	AA	1947054313
SNP_P4_185908_2555	NW_004518992.1	Scaffold4647	2555	GG	CC	1947054315
SNP_P4_185909_2823	NW_004518992.1	Scaffold4647	2823	CC	TT	1947054317
SNP_P4_185910_5492	NW_004518992.1	Scaffold4647	5492	AA	TT	1947054319
SNP_P4_185911_6259	NW_004518992.1	Scaffold4647	6259	AA	GG	1947054321
SNP_P4_185912_500	NW_004518994.1	Scaffold4651	500	GG	TT	1947054323
SNP_P4_185913_595	NW_004518994.1	Scaffold4651	595	AA	GG	1947054325
SNP_P4_185914_926	NW_004518994.1	Scaffold4651	926	TT	CC	1947054327
SNP_P4_185915_1075	NW_004518996.1	Scaffold4654	1075	AA	TT	1947054329
SNP_P4_185916_218	NW_004519000.1	Scaffold4662	218	GG	TT	1947054331
SNP_P4_185917_29075	NW_004519000.1	Scaffold4662	29075	GG	AA	1947054333
SNP_P4_185918_29087	NW_004519000.1	Scaffold4662	29087	GG	AA	1947054335
SNP_P4_185919_29093	NW_004519000.1	Scaffold4662	29093	TT	AA	1947054337
SNP_P4_185920_29233	NW_004519000.1	Scaffold4662	29233	TT	CC	1947054339
SNP_P4_185921_29275	NW_004519000.1	Scaffold4662	29275	AA	GG	1947054341
SNP_P4_185922_29278	NW_004519000.1	Scaffold4662	29278	GG	AA	1947054343
SNP_P4_185923_29281	NW_004519000.1	Scaffold4662	29281	TT	AA	1947054345
SNP_P4_185924_30025	NW_004519000.1	Scaffold4662	30025	AA	GG	1947054347
SNP_P4_185925_30084	NW_004519000.1	Scaffold4662	30084	TT	CC	1947054349
SNP_P4_185926_30148	NW_004519000.1	Scaffold4662	30148	GG	CC	1947054351
SNP_P4_185927_30216	NW_004519000.1	Scaffold4662	30216	CC	TT	1947054353
SNP_P4_185928_35488	NW_004519000.1	Scaffold4662	35488	AA	GG	1947054355
SNP_P4_185929_48074	NW_004519000.1	Scaffold4662	48074	AA	GG	1947054357
SNP_P4_185930_4831	NW_004519004.1	Scaffold4668	4831	TT	CC	1947054359
SNP_P4_185931_4909	NW_004519004.1	Scaffold4668	4909	AA	GG	1947054361
SNP_P4_185932_5107	NW_004519004.1	Scaffold4668	5107	CC	TT	1947054363
SNP_P4_185933_5123	NW_004519004.1	Scaffold4668	5123	CC	GG	1947054365
SNP_P4_185934_5256	NW_004519004.1	Scaffold4668	5256	CC	AA	1947054367
SNP_P4_185935_5565	NW_004519004.1	Scaffold4668	5565	AA	CC	1947054369
SNP_P4_185936_5587	NW_004519004.1	Scaffold4668	5587	AA	CC	1947054371
SNP_P4_185937_5667	NW_004519004.1	Scaffold4668	5667	AA	GG	1947054373
SNP_P4_185938_8374	NW_004519008.1	Scaffold4673	8374	CC	TT	1947054375
SNP_P4_185939_8386	NW_004519008.1	Scaffold4673	8386	CC	TT	1947054377
SNP_P4_185940_8844	NW_004519008.1	Scaffold4673	8844	CC	TT	1947054379
SNP_P4_185941_8978	NW_004519008.1	Scaffold4673	8978	AA	GG	1947054381

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_185942_13095	NW_004519008.1	Scaffold4673	13095	AA	CC	1947054383
SNP_P4_185943_13304	NW_004519008.1	Scaffold4673	13304	TT	CC	1947054385
SNP_P4_185944_14182	NW_004519008.1	Scaffold4673	14182	TT	CC	1947054388
SNP_P4_185945_14549	NW_004519008.1	Scaffold4673	14549	AA	GG	1947054390
SNP_P4_185946_20155	NW_004519008.1	Scaffold4673	20155	AA	GG	1947054392
SNP_P4_185947_20243	NW_004519008.1	Scaffold4673	20243	CC	TT	1947054394
SNP_P4_185948_20438	NW_004519008.1	Scaffold4673	20438	AA	GG	1947054396
SNP_P4_185949_958	NW_004519011.1	Scaffold4679	958	TT	AA	1947054398
SNP_P4_185950_978	NW_004519011.1	Scaffold4679	978	AA	GG	1947054400
SNP_P4_185951_982	NW_004519011.1	Scaffold4679	982	CC	TT	1947054402
SNP_P4_185952_1050	NW_004519011.1	Scaffold4679	1050	CC	AA	1947054404
SNP_P4_185953_1051	NW_004519011.1	Scaffold4679	1051	GG	AA	1947054406
SNP_P4_185954_1069	NW_004519011.1	Scaffold4679	1069	GG	AA	1947054408
SNP_P4_185955_1076	NW_004519011.1	Scaffold4679	1076	AA	GG	1947054410
SNP_P4_185956_323	NW_004519015.1	Scaffold4689	323	AA	CC	1947054413
SNP_P4_185957_431	NW_004519015.1	Scaffold4689	431	TT	CC	1947054415
SNP_P4_185958_39	NW_004519018.1	Scaffold4692	39	GG	AA	1947054417
SNP_P4_185959_64	NW_004519018.1	Scaffold4692	64	GG	AA	1947054419
SNP_P4_185960_69	NW_004519018.1	Scaffold4692	69	GG	AA	1947054421
SNP_P4_185961_123	NW_004519018.1	Scaffold4692	123	AA	GG	1947054423
SNP_P4_185962_168	NW_004519018.1	Scaffold4692	168	AA	TT	1947054425
SNP_P4_185963_399	NW_004519018.1	Scaffold4692	399	AA	TT	1947054427
SNP_P4_185964_456	NW_004519018.1	Scaffold4692	456	AA	GG	1947054429
SNP_P4_185965_529	NW_004519018.1	Scaffold4692	529	CC	GG	1947054431
SNP_P4_185966_578	NW_004519018.1	Scaffold4692	578	GG	TT	1947054433
SNP_P4_185967_433	NW_004519019.1	Scaffold4693	433	GG	TT	1947054435
SNP_P4_185968_434	NW_004519019.1	Scaffold4693	434	TT	AA	1947054437
SNP_P4_185970_448	NW_004519019.1	Scaffold4693	448	GG	AA	1947054439
SNP_P4_185971_475	NW_004519019.1	Scaffold4693	475	CC	TT	1947054441
SNP_P4_185973_158	NW_004519020.1	Scaffold4695	158	CC	AA	1947054443
SNP_P4_185974_508	NW_004519020.1	Scaffold4695	508	TT	CC	1947054445
SNP_P4_185975_512	NW_004519020.1	Scaffold4695	512	GG	AA	1947054447
SNP_P4_185976_543	NW_004519020.1	Scaffold4695	543	TT	GG	1947054449
SNP_P4_185977_581	NW_004519020.1	Scaffold4695	581	GG	AA	1947054451
SNP_P4_185978_5442	NW_004519020.1	Scaffold4695	5442	GG	AA	1947054453
SNP_P4_185979_5600	NW_004519020.1	Scaffold4695	5600	AA	GG	1947054455
SNP_P4_185980_5643	NW_004519020.1	Scaffold4695	5643	TT	GG	1947054457
SNP_P4_185981_209	NW_004519021.1	Scaffold4696	209	CC	GG	1947054459
SNP_P4_185982_3201	NW_004519021.1	Scaffold4696	3201	AA	GG	1947054461
SNP_P4_185983_3405	NW_004519021.1	Scaffold4696	3405	GG	CC	1947054463
SNP_P4_185985_84	NW_004519024.1	Scaffold4701	84	GG	CC	1947054465
SNP_P4_185986_400	NW_004519025.1	Scaffold4702	400	GG	TT	1947054467

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_185987_428	NW_004519025.1	Scaffold4702	428	AA	TT	1947054469
SNP_P4_185988_1406	NW_004519025.1	Scaffold4702	1406	CC	TT	1947054471
SNP_P4_185989_346	NW_004519028.1	Scaffold4708	346	TT	GG	1947054473
SNP_P4_185990_708	NW_004519028.1	Scaffold4708	708	TT	CC	1947054475
SNP_P4_185991_760	NW_004519028.1	Scaffold4708	760	CC	TT	1947054477
SNP_P4_185992_827	NW_004519028.1	Scaffold4708	827	CC	TT	1947054479
SNP_P4_185993_938	NW_004519028.1	Scaffold4708	938	CC	TT	1947054481
SNP_P4_185994_1023	NW_004519028.1	Scaffold4708	1023	TT	AA	1947054483
SNP_P4_185995_1041	NW_004519028.1	Scaffold4708	1041	AA	GG	1947054485
SNP_P4_185996_1085	NW_004519028.1	Scaffold4708	1085	AA	GG	1947054487
SNP_P4_185997_1147	NW_004519028.1	Scaffold4708	1147	GG	AA	1947054489
SNP_P4_185998_1287	NW_004519028.1	Scaffold4708	1287	AA	GG	1947054491
SNP_P4_185999_2955	NW_004519028.1	Scaffold4708	2955	TT	GG	1947054493
SNP_P4_186000_3260	NW_004519028.1	Scaffold4708	3260	CC	TT	1947054495
SNP_P4_186001_6624	NW_004519028.1	Scaffold4708	6624	TT	AA	1947054497
SNP_P4_186002_6628	NW_004519028.1	Scaffold4708	6628	TT	AA	1947054499
SNP_P4_186003_6713	NW_004519028.1	Scaffold4708	6713	AA	GG	1947054501
SNP_P4_186004_6785	NW_004519028.1	Scaffold4708	6785	TT	AA	1947054503
SNP_P4_186005_6822	NW_004519028.1	Scaffold4708	6822	GG	AA	1947054505
SNP_P4_186006_6882	NW_004519028.1	Scaffold4708	6882	TT	AA	1947054507
SNP_P4_186007_14628	NW_004519028.1	Scaffold4708	14628	TT	CC	1947054509
SNP_P4_186008_14687	NW_004519028.1	Scaffold4708	14687	CC	GG	1947054511
SNP_P4_186009_14850	NW_004519028.1	Scaffold4708	14850	TT	GG	1947054513
SNP_P4_186010_15063	NW_004519028.1	Scaffold4708	15063	CC	TT	1947054515
SNP_P4_186011_15172	NW_004519028.1	Scaffold4708	15172	CC	TT	1947054517
SNP_P4_186012_17343	NW_004519028.1	Scaffold4708	17343	GG	TT	1947054519
SNP_P4_186013_17365	NW_004519028.1	Scaffold4708	17365	GG	TT	1947054521
SNP_P4_186014_17380	NW_004519028.1	Scaffold4708	17380	AA	CC	1947054523
SNP_P4_186015_17456	NW_004519028.1	Scaffold4708	17456	AA	GG	1947054525
SNP_P4_186016_17627	NW_004519028.1	Scaffold4708	17627	TT	CC	1947054527
SNP_P4_186017_17681	NW_004519028.1	Scaffold4708	17681	GG	AA	1947054529
SNP_P4_186018_17707	NW_004519028.1	Scaffold4708	17707	GG	AA	1947054531
SNP_P4_186019_19807	NW_004519028.1	Scaffold4708	19807	TT	AA	1947054533
SNP_P4_186020_19966	NW_004519028.1	Scaffold4708	19966	TT	AA	1947054535
SNP_P4_186021_20591	NW_004519028.1	Scaffold4708	20591	TT	GG	1947054537
SNP_P4_186022_20741	NW_004519028.1	Scaffold4708	20741	CC	AA	1947054539
SNP_P4_186023_20812	NW_004519028.1	Scaffold4708	20812	TT	GG	1947054541
SNP_P4_186024_20860	NW_004519028.1	Scaffold4708	20860	TT	CC	1947054543
SNP_P4_186025_20959	NW_004519028.1	Scaffold4708	20959	AA	TT	1947054545
SNP_P4_186026_21016	NW_004519028.1	Scaffold4708	21016	TT	CC	1947054547
SNP_P4_186027_21034	NW_004519028.1	Scaffold4708	21034	AA	GG	1947054549
SNP_P4_186028_21049	NW_004519028.1	Scaffold4708	21049	AA	GG	1947054551

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_186029_21098	NW_004519028.1	Scaffold4708	21098	GG	AA	1947054553
SNP_P4_186030_21118	NW_004519028.1	Scaffold4708	21118	CC	AA	1947054555
SNP_P4_186031_21303	NW_004519028.1	Scaffold4708	21303	GG	AA	1947054558
SNP_P4_186032_21554	NW_004519028.1	Scaffold4708	21554	TT	CC	1947054560
SNP_P4_186033_21582	NW_004519028.1	Scaffold4708	21582	TT	CC	1947054562
SNP_P4_186034_21809	NW_004519028.1	Scaffold4708	21809	TT	CC	1947054564
SNP_P4_186036_22095	NW_004519028.1	Scaffold4708	22095	TT	CC	1947054566
SNP_P4_186037_24842	NW_004519028.1	Scaffold4708	24842	AA	GG	1947054568
SNP_P4_186038_24848	NW_004519028.1	Scaffold4708	24848	AA	TT	1947054570
SNP_P4_186039_24862	NW_004519028.1	Scaffold4708	24862	CC	AA	1947054572
SNP_P4_186040_28415	NW_004519028.1	Scaffold4708	28415	GG	TT	1947054574
SNP_P4_186041_505	NW_004519031.1	Scaffold4711	505	AA	TT	1947054576
SNP_P4_186042_1423	NW_004519031.1	Scaffold4711	1423	TT	CC	1947054578
SNP_P4_186043_1499	NW_004519031.1	Scaffold4711	1499	AA	GG	1947054580
SNP_P4_186044_1745	NW_004519031.1	Scaffold4711	1745	TT	AA	1947054582
SNP_P4_186045_2532	NW_004519031.1	Scaffold4711	2532	TT	CC	1947054584
SNP_P4_186046_2611	NW_004519031.1	Scaffold4711	2611	AA	GG	1947054586
SNP_P4_186047_2701	NW_004519031.1	Scaffold4711	2701	TT	GG	1947054588
SNP_P4_186048_2847	NW_004519031.1	Scaffold4711	2847	GG	CC	1947054590
SNP_P4_186049_2977	NW_004519031.1	Scaffold4711	2977	GG	AA	1947054592
SNP_P4_186050_3005	NW_004519031.1	Scaffold4711	3005	CC	GG	1947054594
SNP_P4_186051_4702	NW_004519031.1	Scaffold4711	4702	TT	AA	1947054596
SNP_P4_186052_4854	NW_004519031.1	Scaffold4711	4854	TT	AA	1947054598
SNP_P4_186053_5395	NW_004519031.1	Scaffold4711	5395	GG	TT	1947054600
SNP_P4_186055_5841	NW_004519031.1	Scaffold4711	5841	TT	AA	1947054602
SNP_P4_186056_5845	NW_004519031.1	Scaffold4711	5845	GG	TT	1947054604
SNP_P4_186057_5997	NW_004519031.1	Scaffold4711	5997	CC	AA	1947054606
SNP_P4_186058_6115	NW_004519031.1	Scaffold4711	6115	GG	TT	1947054608
SNP_P4_186060_6379	NW_004519031.1	Scaffold4711	6379	CC	TT	1947054611
SNP_P4_186061_6510	NW_004519031.1	Scaffold4711	6510	CC	GG	1947054613
SNP_P4_186062_6560	NW_004519031.1	Scaffold4711	6560	TT	AA	1947054615
SNP_P4_186063_8226	NW_004519031.1	Scaffold4711	8226	CC	TT	1947054617
SNP_P4_186064_8227	NW_004519031.1	Scaffold4711	8227	AA	GG	1947054619
SNP_P4_186065_8890	NW_004519031.1	Scaffold4711	8890	GG	AA	1947054621
SNP_P4_186066_8998	NW_004519031.1	Scaffold4711	8998	TT	GG	1947054623
SNP_P4_186067_9284	NW_004519031.1	Scaffold4711	9284	GG	CC	1947054625
SNP_P4_186068_9292	NW_004519031.1	Scaffold4711	9292	TT	GG	1947054627
SNP_P4_186069_9416	NW_004519031.1	Scaffold4711	9416	AA	GG	1947054629
SNP_P4_186070_70	NW_004519033.1	Scaffold4713	70	TT	CC	1947054631
SNP_P4_186071_318	NW_004519033.1	Scaffold4713	318	TT	CC	1947054633
SNP_P4_186072_1617	NW_004519033.1	Scaffold4713	1617	TT	CC	1947054635
SNP_P4_186074_554	NW_004519037.1	Scaffold4718	554	TT	GG	1947054637

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_186075_214	NW_004519039.1	Scaffold4720	214	TT	AA	1947054639
SNP_P4_186076_985	NW_004519039.1	Scaffold4720	985	TT	GG	1947054641
SNP_P4_186077_4661	NW_004519039.1	Scaffold4720	4661	TT	CC	1947054643
SNP_P4_186078_203	NW_004519041.1	Scaffold4722	203	TT	GG	1947054645
SNP_P4_186079_479	NW_004519044.1	Scaffold4726	479	CC	TT	1947054647
SNP_P4_186081_664	NW_004519048.1	Scaffold4731	664	TT	CC	1947054649
SNP_P4_186082_852	NW_004519048.1	Scaffold4731	852	TT	AA	1947054651
SNP_P4_186083_924	NW_004519048.1	Scaffold4731	924	CC	TT	1947054653
SNP_P4_186084_1215	NW_004519048.1	Scaffold4731	1215	GG	CC	1947054655
SNP_P4_186085_151	NW_004519049.1	Scaffold4733	151	GG	AA	1947054657
SNP_P4_186086_204	NW_004519049.1	Scaffold4733	204	AA	GG	1947054659
SNP_P4_186087_240	NW_004519049.1	Scaffold4733	240	TT	CC	1947054661
SNP_P4_186088_273	NW_004519049.1	Scaffold4733	273	CC	TT	1947054663
SNP_P4_186090_543	NW_004519049.1	Scaffold4733	543	AA	GG	1947054665
SNP_P4_186091_558	NW_004519049.1	Scaffold4733	558	GG	AA	1947054684
SNP_P4_186092_745	NW_004519051.1	Scaffold4735	745	AA	CC	1947054686
SNP_P4_186093_911	NW_004519051.1	Scaffold4735	911	AA	CC	1947054688
SNP_P4_186094_207	NW_004519052.1	Scaffold4736	207	AA	TT	1947054690
SNP_P4_186095_1480	NW_004519055.1	Scaffold4740	1480	AA	TT	1947054692
SNP_P4_186096_1911	NW_004519055.1	Scaffold4740	1911	CC	TT	1947054695
SNP_P4_186097_2047	NW_004519055.1	Scaffold4740	2047	GG	AA	1947054697
SNP_P4_186098_2131	NW_004519055.1	Scaffold4740	2131	AA	GG	1947054699
SNP_P4_186099_2141	NW_004519055.1	Scaffold4740	2141	GG	AA	1947054701
SNP_P4_186100_2142	NW_004519055.1	Scaffold4740	2142	GG	AA	1947054703
SNP_P4_186101_2357	NW_004519055.1	Scaffold4740	2357	CC	GG	1947054705
SNP_P4_186102_2426	NW_004519055.1	Scaffold4740	2426	GG	AA	1947054707
SNP_P4_186103_2624	NW_004519055.1	Scaffold4740	2624	AA	CC	1947054709
SNP_P4_186104_2688	NW_004519055.1	Scaffold4740	2688	TT	AA	1947054711
SNP_P4_186105_2737	NW_004519055.1	Scaffold4740	2737	AA	GG	1947054713
SNP_P4_186106_2915	NW_004519055.1	Scaffold4740	2915	AA	TT	1947054715
SNP_P4_186107_4533	NW_004519055.1	Scaffold4740	4533	TT	AA	1947054717
SNP_P4_186108_4562	NW_004519055.1	Scaffold4740	4562	AA	GG	1947054719
SNP_P4_186109_4578	NW_004519055.1	Scaffold4740	4578	AA	TT	1947054721
SNP_P4_186110_4816	NW_004519055.1	Scaffold4740	4816	AA	TT	1947054723
SNP_P4_186111_4913	NW_004519055.1	Scaffold4740	4913	AA	TT	1947054725
SNP_P4_186112_4997	NW_004519055.1	Scaffold4740	4997	GG	CC	1947054728
SNP_P4_186113_5424	NW_004519055.1	Scaffold4740	5424	AA	GG	1947054730
SNP_P4_186114_11643	NW_004519055.1	Scaffold4740	11643	AA	CC	1947054732
SNP_P4_186115_11672	NW_004519055.1	Scaffold4740	11672	TT	CC	1947054734
SNP_P4_186116_20131	NW_004519057.1	Scaffold4745	20131	TT	CC	1947054736
SNP_P4_186117_20147	NW_004519057.1	Scaffold4745	20147	GG	CC	1947054738
SNP_P4_186118_20171	NW_004519057.1	Scaffold4745	20171	TT	AA	1947054740

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_186121_22587	NW_004519057.1	Scaffold4745	22587	GG	AA	1947054745
SNP_P4_186122_22594	NW_004519057.1	Scaffold4745	22594	GG	CC	1947054747
SNP_P4_186124_429	NW_004519065.1	Scaffold4759	429	CC	TT	1947054749
SNP_P4_186125_452	NW_004519065.1	Scaffold4759	452	CC	TT	1947054751
SNP_P4_186127_488	NW_004519065.1	Scaffold4759	488	TT	GG	1947054753
SNP_P4_186129_10971	NW_004519065.1	Scaffold4759	10971	CC	GG	1947054755
SNP_P4_186130_21577	NW_004519065.1	Scaffold4759	21577	GG	AA	1947054757
SNP_P4_186131_22059	NW_004519065.1	Scaffold4759	22059	TT	AA	1947054759
SNP_P4_186132_22060	NW_004519065.1	Scaffold4759	22060	AA	TT	1947054761
SNP_P4_186133_30697	NW_004519065.1	Scaffold4759	30697	TT	GG	1947054763
SNP_P4_186134_36110	NW_004519065.1	Scaffold4759	36110	AA	GG	1947054765
SNP_P4_186135_4932	NW_004519071.1	Scaffold4769	4932	AA	CC	1947054767
SNP_P4_186138_242	NW_004519072.1	Scaffold4771	242	AA	CC	1947054769
SNP_P4_186140_1499	NW_004519073.1	Scaffold4773	1499	CC	TT	1947054771
SNP_P4_186141_2299	NW_004519073.1	Scaffold4773	2299	CC	AA	1947054773
SNP_P4_186142_2342	NW_004519073.1	Scaffold4773	2342	TT	CC	1947054775
SNP_P4_186143_2396	NW_004519073.1	Scaffold4773	2396	AA	GG	1947054777
SNP_P4_186144_2429	NW_004519073.1	Scaffold4773	2429	GG	TT	1947054779
SNP_P4_186145_2582	NW_004519073.1	Scaffold4773	2582	TT	AA	1947054781
SNP_P4_186146_2585	NW_004519073.1	Scaffold4773	2585	CC	TT	1947054783
SNP_P4_186147_2642	NW_004519073.1	Scaffold4773	2642	TT	CC	1947054785
SNP_P4_186148_2658	NW_004519073.1	Scaffold4773	2658	TT	CC	1947054788
SNP_P4_186149_13288	NW_004519073.1	Scaffold4773	13288	CC	TT	1947054790
SNP_P4_186150_13316	NW_004519073.1	Scaffold4773	13316	CC	AA	1947054792
SNP_P4_186151_13532	NW_004519073.1	Scaffold4773	13532	CC	TT	1947054794
SNP_P4_186153_14558	NW_004519073.1	Scaffold4773	14558	GG	AA	1947054796
SNP_P4_186154_14651	NW_004519073.1	Scaffold4773	14651	GG	AA	1947054798
SNP_P4_186155_14661	NW_004519073.1	Scaffold4773	14661	CC	GG	1947054800
SNP_P4_186156_14664	NW_004519073.1	Scaffold4773	14664	TT	CC	1947054802
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SNP_P4_186159_15375	NW_004519073.1	Scaffold4773	15375	TT	GG	1947054808
SNP_P4_186160_15417	NW_004519073.1	Scaffold4773	15417	AA	GG	1947054810
SNP_P4_186161_15541	NW_004519073.1	Scaffold4773	15541	TT	AA	1947054812
SNP_P4_186162_15699	NW_004519073.1	Scaffold4773	15699	GG	TT	1947054814
SNP_P4_186163_16578	NW_004519073.1	Scaffold4773	16578	AA	CC	1947054816
SNP_P4_186165_16945	NW_004519073.1	Scaffold4773	16945	AA	GG	1947054818
SNP_P4_186166_17057	NW_004519073.1	Scaffold4773	17057	GG	TT	1947054820
SNP_P4_186167_18398	NW_004519073.1	Scaffold4773	18398	AA	GG	1947054822
SNP_P4_186168_18678	NW_004519073.1	Scaffold4773	18678	CC	TT	1947054824
SNP_P4_186169_18802	NW_004519073.1	Scaffold4773	18802	TT	CC	1947054826

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_186171_18880	NW_004519073.1	Scaffold4773	18880	AA	GG	1947054831
SNP_P4_186172_19504	NW_004519073.1	Scaffold4773	19504	TT	AA	1947054833
SNP_P4_186173_20616	NW_004519073.1	Scaffold4773	20616	CC	TT	1947054835
SNP_P4_186174_20881	NW_004519073.1	Scaffold4773	20881	GG	AA	1947054837
SNP_P4_186178_22710	NW_004519073.1	Scaffold4773	22710	GG	AA	1947054839
SNP_P4_186179_22862	NW_004519073.1	Scaffold4773	22862	TT	CC	1947054841
SNP_P4_186180_22911	NW_004519073.1	Scaffold4773	22911	TT	CC	1947054843
SNP_P4_186181_23684	NW_004519073.1	Scaffold4773	23684	AA	TT	1947054844
SNP_P4_186182_24794	NW_004519073.1	Scaffold4773	24794	AA	GG	1947054845
SNP_P4_186183_24992	NW_004519073.1	Scaffold4773	24992	TT	CC	1947054846
SNP_P4_186184_25298	NW_004519073.1	Scaffold4773	25298	TT	CC	1947054847
SNP_P4_186185_25637	NW_004519073.1	Scaffold4773	25637	AA	CC	1947054848
SNP_P4_186186_25641	NW_004519073.1	Scaffold4773	25641	AA	GG	1947054849
SNP_P4_186187_25654	NW_004519073.1	Scaffold4773	25654	AA	GG	1947054850
SNP_P4_186188_25718	NW_004519073.1	Scaffold4773	25718	CC	TT	1947054853
SNP_P4_186189_27169	NW_004519073.1	Scaffold4773	27169	CC	GG	1947054855
SNP_P4_186190_27426	NW_004519073.1	Scaffold4773	27426	AA	CC	1947054857
SNP_P4_186191_27608	NW_004519073.1	Scaffold4773	27608	AA	TT	1947054859
SNP_P4_186192_27733	NW_004519073.1	Scaffold4773	27733	TT	CC	1947054861
SNP_P4_186193_27935	NW_004519073.1	Scaffold4773	27935	TT	CC	1947054863
SNP_P4_186194_28345	NW_004519073.1	Scaffold4773	28345	AA	CC	1947054865
SNP_P4_186195_28404	NW_004519073.1	Scaffold4773	28404	CC	AA	1947054867
SNP_P4_186196_28477	NW_004519073.1	Scaffold4773	28477	TT	CC	1947054869
SNP_P4_186197_28632	NW_004519073.1	Scaffold4773	28632	AA	GG	1947054872
SNP_P4_186198_28664	NW_004519073.1	Scaffold4773	28664	AA	GG	1947054874
SNP_P4_186199_28741	NW_004519073.1	Scaffold4773	28741	TT	CC	1947054876
SNP_P4_186200_32978	NW_004519073.1	Scaffold4773	32978	GG	AA	1947054878
SNP_P4_186201_33109	NW_004519073.1	Scaffold4773	33109	AA	TT	1947054925
SNP_P4_186202_33369	NW_004519073.1	Scaffold4773	33369	CC	TT	1947054927
SNP_P4_186204_33605	NW_004519073.1	Scaffold4773	33605	TT	AA	1947054930
SNP_P4_186206_58120	NW_004519073.1	Scaffold4773	58120	AA	CC	1947054932
SNP_P4_186207_58123	NW_004519073.1	Scaffold4773	58123	CC	TT	1947054934
SNP_P4_186208_58124	NW_004519073.1	Scaffold4773	58124	TT	AA	1947054936
SNP_P4_186210_58288	NW_004519073.1	Scaffold4773	58288	AA	TT	1947054938
SNP_P4_186211_58326	NW_004519073.1	Scaffold4773	58326	CC	AA	1947054940
SNP_P4_186213_58538	NW_004519073.1	Scaffold4773	58538	AA	GG	1947054942
SNP_P4_186214_178	NW_004519074.1	Scaffold4775	178	TT	AA	1947054944
SNP_P4_186215_285	NW_004519074.1	Scaffold4775	285	AA	TT	1947054946
SNP_P4_186216_441	NW_004519074.1	Scaffold4775	441	TT	GG	1947054949
SNP_P4_186217_471	NW_004519074.1	Scaffold4775	471	TT	GG	1947054951
SNP_P4_186218_712	NW_004519074.1	Scaffold4775	712	AA	GG	1947054952

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_186219_1091	NW_004519076.1	Scaffold4777	1091	GG	TT	1947054955
SNP_P4_186221_95839	NW_004519076.1	Scaffold4777	95839	TT	CC	1947054957
SNP_P4_186222_112452	NW_004519076.1	Scaffold4777	112452	AA	GG	1947054959
SNP_P4_186223_112496	NW_004519076.1	Scaffold4777	112496	AA	CC	1947054961
SNP_P4_186224_112507	NW_004519076.1	Scaffold4777	112507	AA	CC	1947054963
SNP_P4_186225_112544	NW_004519076.1	Scaffold4777	112544	CC	TT	1947054965
SNP_P4_186226_112792	NW_004519076.1	Scaffold4777	112792	GG	TT	1947054967
SNP_P4_186227_112886	NW_004519076.1	Scaffold4777	112886	CC	AA	1947054969
SNP_P4_186228_113115	NW_004519076.1	Scaffold4777	113115	CC	TT	1947054971
SNP_P4_186229_113447	NW_004519076.1	Scaffold4777	113447	AA	TT	1947054973
SNP_P4_186230_113547	NW_004519076.1	Scaffold4777	113547	AA	GG	1947054975
SNP_P4_186231_113923	NW_004519076.1	Scaffold4777	113923	CC	TT	1947054977
SNP_P4_186232_114094	NW_004519076.1	Scaffold4777	114094	GG	AA	1947054980
SNP_P4_186233_114190	NW_004519076.1	Scaffold4777	114190	CC	AA	1947054982
SNP_P4_186234_114267	NW_004519076.1	Scaffold4777	114267	AA	TT	1947054984
SNP_P4_186235_117775	NW_004519076.1	Scaffold4777	117775	CC	AA	1947054986
SNP_P4_186236_117869	NW_004519076.1	Scaffold4777	117869	CC	AA	1947054988
SNP_P4_186237_118206	NW_004519076.1	Scaffold4777	118206	AA	GG	1947054990
SNP_P4_186238_118507	NW_004519076.1	Scaffold4777	118507	CC	TT	1947054992
SNP_P4_186239_118549	NW_004519076.1	Scaffold4777	118549	GG	AA	1947054994
SNP_P4_186240_118569	NW_004519076.1	Scaffold4777	118569	TT	CC	1947054996
SNP_P4_186241_118683	NW_004519076.1	Scaffold4777	118683	GG	AA	1947054998
SNP_P4_186243_118769	NW_004519076.1	Scaffold4777	118769	TT	CC	1947055000
SNP_P4_186244_119123	NW_004519076.1	Scaffold4777	119123	TT	AA	1947055002
SNP_P4_186245_119329	NW_004519076.1	Scaffold4777	119329	GG	AA	1947055004
SNP_P4_186246_119356	NW_004519076.1	Scaffold4777	119356	GG	AA	1947055006
SNP_P4_186247_119368	NW_004519076.1	Scaffold4777	119368	CC	AA	1947055008
SNP_P4_186248_119372	NW_004519076.1	Scaffold4777	119372	CC	TT	1947055010
SNP_P4_186249_119558	NW_004519076.1	Scaffold4777	119558	GG	CC	1947055013
SNP_P4_186250_119589	NW_004519076.1	Scaffold4777	119589	AA	TT	1947055015
SNP_P4_186251_119620	NW_004519076.1	Scaffold4777	119620	GG	CC	1947055017
SNP_P4_186252_119638	NW_004519076.1	Scaffold4777	119638	AA	CC	1947055019
SNP_P4_186253_119735	NW_004519076.1	Scaffold4777	119735	TT	CC	1947055021
SNP_P4_186254_119762	NW_004519076.1	Scaffold4777	119762	TT	CC	1947055023
SNP_P4_186255_538	NW_004519079.1	Scaffold4781	538	TT	CC	1947055025
SNP_P4_186256_755	NW_004519080.1	Scaffold4782	755	AA	TT	1947055027
SNP_P4_186257_781	NW_004519080.1	Scaffold4782	781	GG	TT	1947055029
SNP_P4_186258_1434	NW_004519080.1	Scaffold4782	1434	AA	GG	1947055031
SNP_P4_186259_1533	NW_004519080.1	Scaffold4782	1533	TT	CC	1947055033
SNP_P4_186260_1554	NW_004519080.1	Scaffold4782	1554	GG	TT	1947055035
SNP_P4_186261_1779	NW_004519080.1	Scaffold4782	1779	TT	CC	1947055037
SNP_P4_186262_1782	NW_004519080.1	Scaffold4782	1782	CC	TT	1947055039

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_186264_1834	NW_004519080.1	Scaffold4782	1834	CC	GG	1947055043
SNP_P4_186265_1907	NW_004519080.1	Scaffold4782	1907	GG	TT	1947055045
SNP_P4_186266_113	NW_004519082.1	Scaffold4784	113	CC	TT	1947055047
SNP_P4_186267_165	NW_004519082.1	Scaffold4784	165	GG	TT	1947055049
SNP_P4_186268_181	NW_004519082.1	Scaffold4784	181	AA	TT	1947055051
SNP_P4_186269_190	NW_004519082.1	Scaffold4784	190	TT	GG	1947055053
SNP_P4_186270_224	NW_004519082.1	Scaffold4784	224	GG	AA	1947055055
SNP_P4_186271_298	NW_004519082.1	Scaffold4784	298	TT	CC	1947055057
SNP_P4_186272_313	NW_004519082.1	Scaffold4784	313	AA	GG	1947055059
SNP_P4_186273_441	NW_004519082.1	Scaffold4784	441	CC	TT	1947055062
SNP_P4_186274_515	NW_004519082.1	Scaffold4784	515	GG	AA	1947055063
SNP_P4_186275_571	NW_004519082.1	Scaffold4784	571	GG	AA	1947055066
SNP_P4_186276_616	NW_004519082.1	Scaffold4784	616	GG	AA	1947055068
SNP_P4_186277_626	NW_004519082.1	Scaffold4784	626	CC	TT	1947055070
SNP_P4_186278_638	NW_004519082.1	Scaffold4784	638	AA	GG	1947055071
SNP_P4_186279_641	NW_004519082.1	Scaffold4784	641	CC	GG	1947055073
SNP_P4_186281_865	NW_004519082.1	Scaffold4784	865	TT	CC	1947055075
SNP_P4_186282_1401	NW_004519082.1	Scaffold4784	1401	GG	TT	1947055077
SNP_P4_186283_2300	NW_004519083.1	Scaffold4787	2300	GG	CC	1947055079
SNP_P4_186284_2321	NW_004519083.1	Scaffold4787	2321	TT	AA	1947055081
SNP_P4_186285_371	NW_004519087.1	Scaffold4791	371	AA	TT	1947055083
SNP_P4_186286_666	NW_004519087.1	Scaffold4791	666	AA	GG	1947055085
SNP_P4_186287_1045	NW_004519088.1	Scaffold4792	1045	CC	AA	1947055087
SNP_P4_186288_5136	NW_004519088.1	Scaffold4792	5136	AA	GG	1947055089
SNP_P4_186289_64	NW_004519090.1	Scaffold4795	64	AA	TT	1947055091
SNP_P4_186290_285	NW_004519092.1	Scaffold4797	285	AA	GG	1947055093
SNP_P4_186291_5596	NW_004519092.1	Scaffold4797	5596	AA	TT	1947055095
SNP_P4_186292_1773	NW_004519093.1	Scaffold4798	1773	CC	TT	1947055097
SNP_P4_186293_2128	NW_004519093.1	Scaffold4798	2128	TT	GG	1947055099
SNP_P4_186294_2132	NW_004519093.1	Scaffold4798	2132	CC	TT	1947055101
SNP_P4_186295_2176	NW_004519093.1	Scaffold4798	2176	TT	AA	1947055103
SNP_P4_186296_475	NW_004519096.1	Scaffold4804	475	TT	GG	1947055105
SNP_P4_186297_583	NW_004519096.1	Scaffold4804	583	TT	CC	1947055107
SNP_P4_186298_789	NW_004519096.1	Scaffold4804	789	AA	TT	1947055109
SNP_P4_186299_793	NW_004519096.1	Scaffold4804	793	TT	GG	1947055111
SNP_P4_186300_854	NW_004519096.1	Scaffold4804	854	GG	CC	1947055113
SNP_P4_186302_1133	NW_004519096.1	Scaffold4804	1133	GG	AA	1947055115
SNP_P4_186303_1159	NW_004519096.1	Scaffold4804	1159	AA	CC	1947055117
SNP_P4_186304_1625	NW_004519096.1	Scaffold4804	1625	CC	AA	1947055119
SNP_P4_186306_3039	NW_004519096.1	Scaffold4804	3039	AA	TT	1947055121
SNP_P4_186307_3049	NW_004519096.1	Scaffold4804	3049	CC	GG	1947055123

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_186309_3056	NW_004519096.1	Scaffold4804	3056	AA	CC	1947055127
SNP_P4_186310_3058	NW_004519096.1	Scaffold4804	3058	TT	CC	1947055129
SNP_P4_186311_3117	NW_004519096.1	Scaffold4804	3117	AA	TT	1947055131
SNP_P4_186312_3135	NW_004519096.1	Scaffold4804	3135	CC	AA	1947055133
SNP_P4_186313_3150	NW_004519096.1	Scaffold4804	3150	TT	AA	1947055135
SNP_P4_186314_3264	NW_004519096.1	Scaffold4804	3264	TT	AA	1947055137
SNP_P4_186315_3310	NW_004519096.1	Scaffold4804	3310	GG	AA	1947055139
SNP_P4_186316_3326	NW_004519096.1	Scaffold4804	3326	CC	TT	1947055141
SNP_P4_186317_3419	NW_004519096.1	Scaffold4804	3419	AA	GG	1947055143
SNP_P4_186318_3519	NW_004519096.1	Scaffold4804	3519	AA	GG	1947055145
SNP_P4_186319_3685	NW_004519096.1	Scaffold4804	3685	TT	GG	1947055147
SNP_P4_186320_8632	NW_004519096.1	Scaffold4804	8632	TT	AA	1947055149
SNP_P4_186321_8845	NW_004519096.1	Scaffold4804	8845	TT	AA	1947055151
SNP_P4_186322_8859	NW_004519096.1	Scaffold4804	8859	TT	AA	1947055153
SNP_P4_186324_9099	NW_004519096.1	Scaffold4804	9099	CC	TT	1947055155
SNP_P4_186325_9109	NW_004519096.1	Scaffold4804	9109	CC	TT	1947055157
SNP_P4_186326_9132	NW_004519096.1	Scaffold4804	9132	AA	TT	1947055159
SNP_P4_186327_9418	NW_004519096.1	Scaffold4804	9418	AA	TT	1947055161
SNP_P4_186328_9434	NW_004519096.1	Scaffold4804	9434	AA	CC	1947055163
SNP_P4_186329_9630	NW_004519096.1	Scaffold4804	9630	GG	CC	1947055165
SNP_P4_186330_9747	NW_004519096.1	Scaffold4804	9747	TT	GG	1947055167
SNP_P4_186332_9874	NW_004519096.1	Scaffold4804	9874	GG	CC	1947055169
SNP_P4_186333_10082	NW_004519096.1	Scaffold4804	10082	AA	CC	1947055171
SNP_P4_186334_10227	NW_004519096.1	Scaffold4804	10227	AA	CC	1947055173
SNP_P4_186335_10320	NW_004519096.1	Scaffold4804	10320	AA	TT	1947055175
SNP_P4_186336_10331	NW_004519096.1	Scaffold4804	10331	TT	CC	1947055177
SNP_P4_186337_10602	NW_004519096.1	Scaffold4804	10602	CC	TT	1947055179
SNP_P4_186338_10612	NW_004519096.1	Scaffold4804	10612	CC	TT	1947055181
SNP_P4_186339_11947	NW_004519096.1	Scaffold4804	11947	AA	CC	1947055183
SNP_P4_186340_17111	NW_004519096.1	Scaffold4804	17111	GG	TT	1947055185
SNP_P4_186341_17235	NW_004519096.1	Scaffold4804	17235	AA	GG	1947055187
SNP_P4_186342_17385	NW_004519096.1	Scaffold4804	17385	GG	AA	1947055189
SNP_P4_186343_17506	NW_004519096.1	Scaffold4804	17506	TT	CC	1947055191
SNP_P4_186344_17838	NW_004519096.1	Scaffold4804	17838	GG	CC	1947055193
SNP_P4_186345_393	NW_004519097.1	Scaffold4805	393	AA	TT	1947055196
SNP_P4_186346_817	NW_004519097.1	Scaffold4805	817	AA	GG	1947055198
SNP_P4_186347_5749	NW_004519097.1	Scaffold4805	5749	TT	CC	1947055200
SNP_P4_186348_5755	NW_004519097.1	Scaffold4805	5755	TT	AA	1947055202
SNP_P4_186349_11030	NW_004519097.1	Scaffold4805	11030	TT	CC	1947055204
SNP_P4_186350_11061	NW_004519097.1	Scaffold4805	11061	TT	CC	1947055206
SNP_P4_186351_772	NW_004519098.1	Scaffold4806	772	GG	AA	1947055208

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_186353_786	NW_004519098.1	Scaffold4806	786	TT	CC	1947055212
SNP_P4_186354_399	NW_004519100.1	Scaffold4808	399	CC	TT	1947055214
SNP_P4_186355_508	NW_004519100.1	Scaffold4808	508	GG	CC	1947055216
SNP_P4_186356_632	NW_004519100.1	Scaffold4808	632	TT	AA	1947055218
SNP_P4_186357_668	NW_004519100.1	Scaffold4808	668	AA	CC	1947055220
SNP_P4_186358_747	NW_004519100.1	Scaffold4808	747	GG	TT	1947055222
SNP_P4_186359_760	NW_004519100.1	Scaffold4808	760	TT	CC	1947055224
SNP_P4_186361_922	NW_004519100.1	Scaffold4808	922	TT	GG	1947055226
SNP_P4_186362_996	NW_004519100.1	Scaffold4808	996	CC	AA	1947055228
SNP_P4_186363_1118	NW_004519100.1	Scaffold4808	1118	GG	CC	1947055230
SNP_P4_186365_994	NW_004519102.1	Scaffold4810	994	GG	CC	1947055232
SNP_P4_186366_1832	NW_004519102.1	Scaffold4810	1832	TT	GG	1947055234
SNP_P4_186367_1894	NW_004519102.1	Scaffold4810	1894	TT	GG	1947055236
SNP_P4_186368_83	NW_004519106.1	Scaffold4817	83	GG	AA	1947055238
SNP_P4_186369_95	NW_004519106.1	Scaffold4817	95	TT	CC	1947055240
SNP_P4_186370_106	NW_004519106.1	Scaffold4817	106	AA	GG	1947055243
SNP_P4_186371_725	NW_004519106.1	Scaffold4817	725	CC	AA	1947055245
SNP_P4_186372_781	NW_004519106.1	Scaffold4817	781	CC	TT	1947055247
SNP_P4_186373_818	NW_004519106.1	Scaffold4817	818	AA	GG	1947055249
SNP_P4_186374_845	NW_004519106.1	Scaffold4817	845	TT	AA	1947055251
SNP_P4_186375_876	NW_004519106.1	Scaffold4817	876	TT	AA	1947055253
SNP_P4_186376_878	NW_004519106.1	Scaffold4817	878	CC	TT	1947055255
SNP_P4_186377_933	NW_004519106.1	Scaffold4817	933	TT	GG	1947055257
SNP_P4_186378_1428	NW_004519108.1	Scaffold4820	1428	GG	TT	1947055259
SNP_P4_186379_1781	NW_004519108.1	Scaffold4820	1781	TT	CC	1947055261
SNP_P4_186380_81	NW_004519110.1	Scaffold4822	81	GG	TT	1947055263
SNP_P4_186382_710	NW_004519115.1	Scaffold4828	710	AA	GG	1947055265
SNP_P4_186383_741	NW_004519115.1	Scaffold4828	741	AA	CC	1947055267
SNP_P4_186384_1077	NW_004519115.1	Scaffold4828	1077	TT	GG	1947055269
SNP_P4_186385_1195	NW_004519115.1	Scaffold4828	1195	AA	TT	1947055271
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SNP_P4_186388_1116	NW_004519116.1	Scaffold4829	1116	GG	AA	1947055277
SNP_P4_186389_1333	NW_004519116.1	Scaffold4829	1333	GG	AA	1947055279
SNP_P4_186390_1380	NW_004519116.1	Scaffold4829	1380	GG	AA	1947055281
SNP_P4_186391_1387	NW_004519116.1	Scaffold4829	1387	TT	AA	1947055283
SNP_P4_186392_1437	NW_004519116.1	Scaffold4829	1437	AA	GG	1947055285
SNP_P4_186393_1518	NW_004519116.1	Scaffold4829	1518	CC	TT	1947055287
SNP_P4_186394_1551	NW_004519116.1	Scaffold4829	1551	TT	GG	1947055289
SNP_P4_186395_2152	NW_004519116.1	Scaffold4829	2152	CC	TT	1947055291
SNP_P4_186396_5946	NW_004519116.1	Scaffold4829	5946	GG	TT	1947055293

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_186398_6211	NW_004519116.1	Scaffold4829	6211	TT	GG	1947055298
SNP_P4_186399_6231	NW_004519116.1	Scaffold4829	6231	GG	AA	1947055300
SNP_P4_186401_6366	NW_004519116.1	Scaffold4829	6366	TT	CC	1947055302
SNP_P4_186402_6382	NW_004519116.1	Scaffold4829	6382	GG	AA	1947055304
SNP_P4_186403_6420	NW_004519116.1	Scaffold4829	6420	TT	CC	1947055306
SNP_P4_186404_6456	NW_004519116.1	Scaffold4829	6456	CC	GG	1947055308
SNP_P4_186405_6654	NW_004519116.1	Scaffold4829	6654	TT	AA	1947055310
SNP_P4_186406_6666	NW_004519116.1	Scaffold4829	6666	CC	GG	1947055312
SNP_P4_186407_6693	NW_004519116.1	Scaffold4829	6693	TT	CC	1947055314
SNP_P4_186408_6722	NW_004519116.1	Scaffold4829	6722	AA	CC	1947055316
SNP_P4_186409_6734	NW_004519116.1	Scaffold4829	6734	TT	CC	1947055318
SNP_P4_186410_6736	NW_004519116.1	Scaffold4829	6736	GG	AA	1947055320
SNP_P4_186411_6751	NW_004519116.1	Scaffold4829	6751	CC	TT	1947055322
SNP_P4_186413_8277	NW_004519116.1	Scaffold4829	8277	AA	GG	1947055324
SNP_P4_186414_8285	NW_004519116.1	Scaffold4829	8285	CC	TT	1947055326
SNP_P4_186415_8340	NW_004519116.1	Scaffold4829	8340	CC	GG	1947055328
SNP_P4_186416_8471	NW_004519116.1	Scaffold4829	8471	AA	CC	1947055330
SNP_P4_186417_8483	NW_004519116.1	Scaffold4829	8483	AA	GG	1947055332
SNP_P4_186418_580	NW_004519118.1	Scaffold4833	580	AA	GG	1947055334
SNP_P4_186419_675	NW_004519118.1	Scaffold4833	675	TT	AA	1947055336
SNP_P4_186421_1060	NW_004519118.1	Scaffold4833	1060	AA	CC	1947055338
SNP_P4_186422_1187	NW_004519118.1	Scaffold4833	1187	AA	TT	1947055340
SNP_P4_186423_1197	NW_004519118.1	Scaffold4833	1197	TT	CC	1947055342
SNP_P4_186424_1243	NW_004519118.1	Scaffold4833	1243	GG	AA	1947055344
SNP_P4_186425_1369	NW_004519118.1	Scaffold4833	1369	AA	TT	1947055346
SNP_P4_186426_3275	NW_004519118.1	Scaffold4833	3275	TT	CC	1947055348
SNP_P4_186427_3484	NW_004519118.1	Scaffold4833	3484	CC	AA	1947055350
SNP_P4_186428_3499	NW_004519118.1	Scaffold4833	3499	CC	AA	1947055352
SNP_P4_186429_3755	NW_004519118.1	Scaffold4833	3755	GG	TT	1947055354
SNP_P4_186432_5585	NW_004519118.1	Scaffold4833	5585	TT	CC	1947055356
SNP_P4_186433_5822	NW_004519118.1	Scaffold4833	5822	AA	GG	1947055358
SNP_P4_186434_9580	NW_004519122.1	Scaffold4837	9580	GG	AA	1947055360
SNP_P4_186435_9586	NW_004519122.1	Scaffold4837	9586	CC	AA	1947055362
SNP_P4_186436_9913	NW_004519122.1	Scaffold4837	9913	AA	CC	1947055364
SNP_P4_186437_13296	NW_004519122.1	Scaffold4837	13296	AA	GG	1947055366
SNP_P4_186438_13646	NW_004519122.1	Scaffold4837	13646	CC	TT	1947055368
SNP_P4_186439_592	NW_004519126.1	Scaffold4846	592	CC	TT	1947055370
SNP_P4_186440_5859	NW_004519126.1	Scaffold4846	5859	TT	CC	1947055372
SNP_P4_186441_5886	NW_004519126.1	Scaffold4846	5886	GG	CC	1947055374
SNP_P4_186442_5892	NW_004519126.1	Scaffold4846	5892	GG	TT	1947055377
SNP_P4_186443_5930	NW_004519126.1	Scaffold4846	5930	GG	AA	1947055379

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_186445_658	NW_004519128.1	Scaffold4848	658	TT	GG	1947055383
SNP_P4_186446_659	NW_004519128.1	Scaffold4848	659	GG	AA	1947055385
SNP_P4_186448_2088	NW_004519130.1	Scaffold4850	2088	GG	AA	1947055387
SNP_P4_186449_3019	NW_004519131.1	Scaffold4851	3019	CC	TT	1947055389
SNP_P4_186450_3224	NW_004519131.1	Scaffold4851	3224	CC	AA	1947055391
SNP_P4_186451_3461	NW_004519131.1	Scaffold4851	3461	TT	AA	1947055393
SNP_P4_186453_3578	NW_004519131.1	Scaffold4851	3578	AA	GG	1947055395
SNP_P4_186454_3601	NW_004519131.1	Scaffold4851	3601	AA	CC	1947055397
SNP_P4_186456_3639	NW_004519131.1	Scaffold4851	3639	GG	AA	1947055399
SNP_P4_186457_3806	NW_004519131.1	Scaffold4851	3806	AA	GG	1947055401
SNP_P4_186458_5584	NW_004519136.1	Scaffold4859	5584	CC	TT	1947055403
SNP_P4_186459_6970	NW_004519136.1	Scaffold4859	6970	CC	AA	1947055405
SNP_P4_186460_561	NW_004519138.1	Scaffold4861	561	TT	AA	1947055407
SNP_P4_186461_1938	NW_004519140.1	Scaffold4863	1938	GG	AA	1947055409
SNP_P4_186462_2007	NW_004519140.1	Scaffold4863	2007	AA	GG	1947055411
SNP_P4_186463_2474	NW_004519140.1	Scaffold4863	2474	AA	CC	1947055413
SNP_P4_186464_796	NW_004519142.1	Scaffold4865	796	CC	TT	1947055415
SNP_P4_186465_1062	NW_004519142.1	Scaffold4865	1062	GG	AA	1947055417
SNP_P4_186466_1086	NW_004519142.1	Scaffold4865	1086	TT	GG	1947055420
SNP_P4_186467_1113	NW_004519142.1	Scaffold4865	1113	AA	GG	1947055421
SNP_P4_186468_1116	NW_004519142.1	Scaffold4865	1116	GG	AA	1947055423
SNP_P4_186469_1205	NW_004519142.1	Scaffold4865	1205	GG	AA	1947055426
SNP_P4_186470_1221	NW_004519142.1	Scaffold4865	1221	CC	TT	1947055428
SNP_P4_186471_107	NW_004519143.1	Scaffold4866	107	TT	CC	1947055430
SNP_P4_186472_750	NW_004519143.1	Scaffold4866	750	TT	AA	1947055432
SNP_P4_186473_1506	NW_004519143.1	Scaffold4866	1506	TT	CC	1947055434
SNP_P4_186474_1675	NW_004519143.1	Scaffold4866	1675	TT	AA	1947055436
SNP_P4_186475_1853	NW_004519143.1	Scaffold4866	1853	TT	CC	1947055438
SNP_P4_186476_1915	NW_004519143.1	Scaffold4866	1915	AA	GG	1947055440
SNP_P4_186477_6283	NW_004519143.1	Scaffold4866	6283	AA	GG	1947055443
SNP_P4_186478_607	NW_004519146.1	Scaffold4869	607	CC	GG	1947055445
SNP_P4_186479_633	NW_004519146.1	Scaffold4869	633	CC	AA	1947055447
SNP_P4_186480_640	NW_004519146.1	Scaffold4869	640	GG	AA	1947055449
SNP_P4_186481_696	NW_004519146.1	Scaffold4869	696	CC	TT	1947055451
SNP_P4_186483_751	NW_004519146.1	Scaffold4869	751	TT	CC	1947055453
SNP_P4_186484_770	NW_004519146.1	Scaffold4869	770	TT	AA	1947055455
SNP_P4_186486_949	NW_004519146.1	Scaffold4869	949	CC	GG	1947055457
SNP_P4_186488_1221	NW_004519146.1	Scaffold4869	1221	TT	AA	1947055459
SNP_P4_186489_1240	NW_004519146.1	Scaffold4869	1240	AA	TT	1947055461
SNP_P4_186491_862	NW_004519148.1	Scaffold4874	862	GG	AA	1947055463
SNP_P4_186492_6487	NW_004519148.1	Scaffold4874	6487	GG	AA	1947055465

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_186493_7755	NW_004519148.1	Scaffold4874	7755	GG	TT	1947055467
SNP_P4_186494_7769	NW_004519148.1	Scaffold4874	7769	AA	GG	1947055469
SNP_P4_186495_7827	NW_004519148.1	Scaffold4874	7827	AA	GG	1947055471
SNP_P4_186497_7955	NW_004519148.1	Scaffold4874	7955	AA	CC	1947055473
SNP_P4_186498_7982	NW_004519148.1	Scaffold4874	7982	GG	AA	1947055475
SNP_P4_186499_7995	NW_004519148.1	Scaffold4874	7995	TT	GG	1947055477
SNP_P4_186500_8031	NW_004519148.1	Scaffold4874	8031	AA	GG	1947055479
SNP_P4_186501_8032	NW_004519148.1	Scaffold4874	8032	AA	GG	1947055482
SNP_P4_186502_8065	NW_004519148.1	Scaffold4874	8065	GG	CC	1947055484
SNP_P4_186503_8131	NW_004519148.1	Scaffold4874	8131	CC	AA	1947055486
SNP_P4_186504_8146	NW_004519148.1	Scaffold4874	8146	AA	GG	1947055488
SNP_P4_186505_8184	NW_004519148.1	Scaffold4874	8184	AA	GG	1947055490
SNP_P4_186506_8236	NW_004519148.1	Scaffold4874	8236	GG	AA	1947055492
SNP_P4_186507_13437	NW_004519148.1	Scaffold4874	13437	CC	TT	1947055494
SNP_P4_186508_14041	NW_004519148.1	Scaffold4874	14041	GG	TT	1947055496
SNP_P4_186510_14067	NW_004519148.1	Scaffold4874	14067	AA	CC	1947055498
SNP_P4_186511_14079	NW_004519148.1	Scaffold4874	14079	TT	AA	1947055500
SNP_P4_186512_14084	NW_004519148.1	Scaffold4874	14084	CC	AA	1947055502
SNP_P4_186513_14085	NW_004519148.1	Scaffold4874	14085	CC	GG	1947055504
SNP_P4_186514_14101	NW_004519148.1	Scaffold4874	14101	TT	CC	1947055506
SNP_P4_186515_14504	NW_004519148.1	Scaffold4874	14504	GG	AA	1947055508
SNP_P4_186516_511	NW_004519149.1	Scaffold4878	511	CC	AA	1947055510
SNP_P4_186517_3388	NW_004519150.1	Scaffold4879	3388	TT	AA	1947055512
SNP_P4_186518_3414	NW_004519150.1	Scaffold4879	3414	TT	AA	1947055514
SNP_P4_186519_3422	NW_004519150.1	Scaffold4879	3422	AA	CC	1947055516
SNP_P4_186520_3424	NW_004519150.1	Scaffold4879	3424	AA	CC	1947055518
SNP_P4_186521_3429	NW_004519150.1	Scaffold4879	3429	GG	TT	1947055520
SNP_P4_186522_64	NW_004519153.1	Scaffold4884	64	GG	AA	1947055522
SNP_P4_186523_799	NW_004519153.1	Scaffold4884	799	TT	CC	1947055524
SNP_P4_186524_943	NW_004519153.1	Scaffold4884	943	TT	GG	1947055526
SNP_P4_186525_1077	NW_004519153.1	Scaffold4884	1077	AA	GG	1947055528
SNP_P4_186526_1096	NW_004519153.1	Scaffold4884	1096	TT	CC	1947055530
SNP_P4_186527_1117	NW_004519153.1	Scaffold4884	1117	GG	CC	1947055532
SNP_P4_186528_1733	NW_004519153.1	Scaffold4884	1733	TT	GG	1947055534
SNP_P4_186529_1859	NW_004519153.1	Scaffold4884	1859	TT	AA	1947055536
SNP_P4_186530_1876	NW_004519153.1	Scaffold4884	1876	AA	GG	1947055538
SNP_P4_186531_1921	NW_004519153.1	Scaffold4884	1921	AA	TT	1947055540
SNP_P4_186532_1927	NW_004519153.1	Scaffold4884	1927	TT	AA	1947055542
SNP_P4_186533_1966	NW_004519153.1	Scaffold4884	1966	AA	GG	1947055544
SNP_P4_186534_653	NW_004519155.1	Scaffold4888	653	GG	AA	1947055546
SNP_P4_186535_939	NW_004519155.1	Scaffold4888	939	AA	GG	1947055548
SNP_P4_186536_1354	NW_004519156.1	Scaffold4889	1354	TT	CC	1947055550

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_186538_1633	NW_004519156.1	Scaffold4889	1633	TT	CC	1947055554
SNP_P4_186539_1644	NW_004519156.1	Scaffold4889	1644	TT	CC	1947055556
SNP_P4_186540_1692	NW_004519156.1	Scaffold4889	1692	GG	CC	1947055558
SNP_P4_186541_1355	NW_004519158.1	Scaffold4892	1355	GG	AA	1947055561
SNP_P4_186542_2069	NW_004519158.1	Scaffold4892	2069	GG	CC	1947055563
SNP_P4_186543_2075	NW_004519158.1	Scaffold4892	2075	CC	AA	1947055565
SNP_P4_186544_2121	NW_004519158.1	Scaffold4892	2121	CC	TT	1947055567
SNP_P4_186545_97	NW_004519160.1	Scaffold4894	97	TT	GG	1947055570
SNP_P4_186546_392	NW_004519160.1	Scaffold4894	392	TT	CC	1947055572
SNP_P4_186547_70	NW_004519161.1	Scaffold4895	70	GG	CC	1947055574
SNP_P4_186548_7197	NW_004519161.1	Scaffold4895	7197	AA	TT	1947055576
SNP_P4_186549_9508	NW_004519161.1	Scaffold4895	9508	AA	TT	1947055578
SNP_P4_186550_14033	NW_004519161.1	Scaffold4895	14033	GG	AA	1947055580
SNP_P4_186553_8635	NW_004519166.1	Scaffold4902	8635	TT	CC	1947055582
SNP_P4_186557_24042	NW_004519166.1	Scaffold4902	24042	TT	AA	1947055584
SNP_P4_186558_28594	NW_004519166.1	Scaffold4902	28594	TT	CC	1947055586
SNP_P4_186559_28618	NW_004519166.1	Scaffold4902	28618	AA	GG	1947055588
SNP_P4_186560_33088	NW_004519166.1	Scaffold4902	33088	AA	GG	1947055590
SNP_P4_186563_44586	NW_004519166.1	Scaffold4902	44586	TT	CC	1947055592
SNP_P4_186564_66460	NW_004519166.1	Scaffold4902	66460	AA	CC	1947055594
SNP_P4_186566_73370	NW_004519166.1	Scaffold4902	73370	TT	CC	1947055596
SNP_P4_186567_73396	NW_004519166.1	Scaffold4902	73396	CC	TT	1947055598
SNP_P4_186568_73687	NW_004519166.1	Scaffold4902	73687	GG	AA	1947055600
SNP_P4_186569_73692	NW_004519166.1	Scaffold4902	73692	TT	GG	1947055602
SNP_P4_186570_73732	NW_004519166.1	Scaffold4902	73732	TT	AA	1947055604
SNP_P4_186571_74512	NW_004519166.1	Scaffold4902	74512	TT	AA	1947055606
SNP_P4_186572_76522	NW_004519166.1	Scaffold4902	76522	AA	GG	1947055608
SNP_P4_186573_76542	NW_004519166.1	Scaffold4902	76542	AA	CC	1947055610
SNP_P4_186574_76543	NW_004519166.1	Scaffold4902	76543	GG	AA	1947055612
SNP_P4_186575_76565	NW_004519166.1	Scaffold4902	76565	AA	TT	1947055614
SNP_P4_186576_76809	NW_004519166.1	Scaffold4902	76809	CC	TT	1947055616
SNP_P4_186577_91253	NW_004519166.1	Scaffold4902	91253	AA	CC	1947055618
SNP_P4_186578_92058	NW_004519166.1	Scaffold4902	92058	GG	TT	1947055620
SNP_P4_186579_92350	NW_004519166.1	Scaffold4902	92350	TT	AA	1947055622
SNP_P4_186580_98037	NW_004519166.1	Scaffold4902	98037	CC	TT	1947055624
SNP_P4_186582_64	NW_004519169.1	Scaffold4905	64	TT	GG	1947055626
SNP_P4_186583_70	NW_004519169.1	Scaffold4905	70	AA	GG	1947055628
SNP_P4_186584_382	NW_004519169.1	Scaffold4905	382	AA	GG	1947055630
SNP_P4_186585_4207	NW_004519175.1	Scaffold4917	4207	AA	GG	1947055632
SNP_P4_186586_4244	NW_004519175.1	Scaffold4917	4244	CC	AA	1947055634
SNP_P4_186587_4254	NW_004519175.1	Scaffold4917	4254	TT	AA	1947055636

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_186589_4959	NW_004519175.1	Scaffold4917	4959	AA	TT	1947055640
SNP_P4_186590_4992	NW_004519175.1	Scaffold4917	4992	AA	TT	1947055642
SNP_P4_186591_5036	NW_004519175.1	Scaffold4917	5036	TT	AA	1947055644
SNP_P4_186592_5066	NW_004519175.1	Scaffold4917	5066	AA	CC	1947055647
SNP_P4_186593_5067	NW_004519175.1	Scaffold4917	5067	GG	AA	1947055649
SNP_P4_186594_5309	NW_004519175.1	Scaffold4917	5309	GG	TT	1947055651
SNP_P4_186595_5458	NW_004519175.1	Scaffold4917	5458	GG	AA	1947055653
SNP_P4_186596_5472	NW_004519175.1	Scaffold4917	5472	CC	GG	1947055655
SNP_P4_186597_5505	NW_004519175.1	Scaffold4917	5505	TT	CC	1947055657
SNP_P4_186598_5558	NW_004519175.1	Scaffold4917	5558	TT	GG	1947055659
SNP_P4_186599_5583	NW_004519175.1	Scaffold4917	5583	AA	CC	1947055661
SNP_P4_186600_5600	NW_004519175.1	Scaffold4917	5600	GG	AA	1947055663
SNP_P4_186601_5637	NW_004519175.1	Scaffold4917	5637	TT	AA	1947055665
SNP_P4_186602_19201	NW_004519177.1	Scaffold4920	19201	AA	GG	1947055667
SNP_P4_186603_19212	NW_004519177.1	Scaffold4920	19212	AA	TT	1947055669
SNP_P4_186604_19335	NW_004519177.1	Scaffold4920	19335	TT	CC	1947055671
SNP_P4_186605_19337	NW_004519177.1	Scaffold4920	19337	GG	AA	1947055673
SNP_P4_186606_20916	NW_004519177.1	Scaffold4920	20916	GG	AA	1947055675
SNP_P4_186607_21029	NW_004519177.1	Scaffold4920	21029	GG	CC	1947055677
SNP_P4_186608_21133	NW_004519177.1	Scaffold4920	21133	TT	AA	1947055679
SNP_P4_186609_3934	NW_004519180.1	Scaffold4923	3934	CC	TT	1947055681
SNP_P4_186610_3935	NW_004519180.1	Scaffold4923	3935	AA	GG	1947055684
SNP_P4_186611_10342	NW_004519180.1	Scaffold4923	10342	TT	GG	1947055686
SNP_P4_186612_10778	NW_004519180.1	Scaffold4923	10778	GG	CC	1947055688
SNP_P4_186613_10783	NW_004519180.1	Scaffold4923	10783	GG	AA	1947055690
SNP_P4_186614_10819	NW_004519180.1	Scaffold4923	10819	CC	TT	1947055692
SNP_P4_186615_10862	NW_004519180.1	Scaffold4923	10862	CC	GG	1947055694
SNP_P4_186616_10875	NW_004519180.1	Scaffold4923	10875	CC	TT	1947055696
SNP_P4_186617_11028	NW_004519180.1	Scaffold4923	11028	CC	GG	1947055698
SNP_P4_186618_11059	NW_004519180.1	Scaffold4923	11059	TT	AA	1947055700
SNP_P4_186619_11060	NW_004519180.1	Scaffold4923	11060	CC	TT	1947055702
SNP_P4_186620_11086	NW_004519180.1	Scaffold4923	11086	AA	GG	1947055704
SNP_P4_186621_11116	NW_004519180.1	Scaffold4923	11116	CC	GG	1947055706
SNP_P4_186622_11136	NW_004519180.1	Scaffold4923	11136	CC	AA	1947055708
SNP_P4_186624_19729	NW_004519180.1	Scaffold4923	19729	AA	GG	1947055710
SNP_P4_186625_19828	NW_004519180.1	Scaffold4923	19828	AA	GG	1947055712
SNP_P4_186626_19865	NW_004519180.1	Scaffold4923	19865	TT	AA	1947055714
SNP_P4_186627_20006	NW_004519180.1	Scaffold4923	20006	AA	TT	1947055716
SNP_P4_186628_651	NW_004519184.1	Scaffold4928	651	TT	AA	1947055718
SNP_P4_186629_597	NW_004519186.1	Scaffold4930	597	TT	CC	1947055720
SNP_P4_186630_945	NW_004519186.1	Scaffold4930	945	CC	TT	1947055722

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_186632_440	NW_004519188.1	Scaffold4932	440	GG	AA	1947055726
SNP_P4_186633_392	NW_004519192.1	Scaffold4937	392	GG	AA	1947055728
SNP_P4_186634_537	NW_004519192.1	Scaffold4937	537	TT	AA	1947055730
SNP_P4_186635_666	NW_004519192.1	Scaffold4937	666	AA	CC	1947055732
SNP_P4_186636_677	NW_004519192.1	Scaffold4937	677	GG	TT	1947055734
SNP_P4_186637_989	NW_004519192.1	Scaffold4937	989	CC	TT	1947055736
SNP_P4_186638_1902	NW_004519193.1	Scaffold4938	1902	GG	AA	1947055738
SNP_P4_186639_1903	NW_004519193.1	Scaffold4938	1903	TT	CC	1947055740
SNP_P4_186640_2156	NW_004519193.1	Scaffold4938	2156	TT	GG	1947055742
SNP_P4_186641_224	NW_004519194.1	Scaffold4939	224	AA	TT	1947055744
SNP_P4_186642_400	NW_004519194.1	Scaffold4939	400	CC	AA	1947055746
SNP_P4_186643_538	NW_004519194.1	Scaffold4939	538	CC	TT	1947055748
SNP_P4_186644_379	NW_004519196.1	Scaffold4941	379	GG	AA	1947055750
SNP_P4_186645_390	NW_004519196.1	Scaffold4941	390	AA	TT	1947055752
SNP_P4_186647_1380	NW_004519197.1	Scaffold4943	1380	TT	CC	1947055754
SNP_P4_186648_3957	NW_004519199.1	Scaffold4945	3957	GG	TT	1947055756
SNP_P4_186649_3964	NW_004519199.1	Scaffold4945	3964	CC	AA	1947055758
SNP_P4_186650_3974	NW_004519199.1	Scaffold4945	3974	TT	CC	1947055760
SNP_P4_186651_3977	NW_004519199.1	Scaffold4945	3977	TT	AA	1947055762
SNP_P4_186652_3982	NW_004519199.1	Scaffold4945	3982	TT	CC	1947055764
SNP_P4_186653_3991	NW_004519199.1	Scaffold4945	3991	AA	GG	1947055766
SNP_P4_186654_4002	NW_004519199.1	Scaffold4945	4002	TT	CC	1947055768
SNP_P4_186655_4051	NW_004519199.1	Scaffold4945	4051	CC	GG	1947055770
SNP_P4_186656_4127	NW_004519199.1	Scaffold4945	4127	CC	GG	1947055772
SNP_P4_186657_4187	NW_004519199.1	Scaffold4945	4187	GG	AA	1947055774
SNP_P4_186658_4198	NW_004519199.1	Scaffold4945	4198	CC	AA	1947055776
SNP_P4_186660_4313	NW_004519199.1	Scaffold4945	4313	GG	AA	1947055777
SNP_P4_186661_4321	NW_004519199.1	Scaffold4945	4321	CC	TT	1947055779
SNP_P4_186662_4335	NW_004519199.1	Scaffold4945	4335	TT	CC	1947055781
SNP_P4_186663_4370	NW_004519199.1	Scaffold4945	4370	TT	GG	1947055783
SNP_P4_186664_4424	NW_004519199.1	Scaffold4945	4424	AA	GG	1947055785
SNP_P4_186665_4513	NW_004519199.1	Scaffold4945	4513	GG	AA	1947055787
SNP_P4_186666_4572	NW_004519199.1	Scaffold4945	4572	TT	AA	1947055789
SNP_P4_186667_6461	NW_004519199.1	Scaffold4945	6461	AA	TT	1947055791
SNP_P4_186668_6464	NW_004519199.1	Scaffold4945	6464	GG	TT	1947055793
SNP_P4_186669_8182	NW_004519199.1	Scaffold4945	8182	GG	TT	1947055795
SNP_P4_186670_8709	NW_004519199.1	Scaffold4945	8709	AA	TT	1947055797
SNP_P4_186671_8777	NW_004519199.1	Scaffold4945	8777	TT	CC	1947055799
SNP_P4_186672_627	NW_004519200.1	Scaffold4946	627	CC	AA	1947055801
SNP_P4_186673_649	NW_004519200.1	Scaffold4946	649	TT	AA	1947055803
SNP_P4_186674_849	NW_004519200.1	Scaffold4946	849	AA	CC	1947055805

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_186676_702	NW_004519207.1	Scaffold4954	702	AA	TT	1947055809
SNP_P4_186677_710	NW_004519207.1	Scaffold4954	710	CC	TT	1947055810
SNP_P4_186678_734	NW_004519207.1	Scaffold4954	734	CC	TT	1947055812
SNP_P4_186679_1011	NW_004519207.1	Scaffold4954	1011	GG	CC	1947055814
SNP_P4_186680_1202	NW_004519207.1	Scaffold4954	1202	AA	CC	1947055816
SNP_P4_186681_792	NW_004519210.1	Scaffold4957	792	TT	AA	1947055818
SNP_P4_186682_794	NW_004519210.1	Scaffold4957	794	TT	GG	1947055820
SNP_P4_186683_796	NW_004519210.1	Scaffold4957	796	AA	TT	1947055822
SNP_P4_186684_803	NW_004519210.1	Scaffold4957	803	AA	TT	1947055824
SNP_P4_186685_840	NW_004519210.1	Scaffold4957	840	TT	GG	1947055826
SNP_P4_186686_841	NW_004519210.1	Scaffold4957	841	GG	AA	1947055828
SNP_P4_186687_805	NW_004519212.1	Scaffold4960	805	GG	AA	1947055830
SNP_P4_186688_1096	NW_004519212.1	Scaffold4960	1096	CC	AA	1947055832
SNP_P4_186689_1147	NW_004519212.1	Scaffold4960	1147	AA	TT	1947055834
SNP_P4_186690_1125	NW_004519218.1	Scaffold4970	1125	CC	TT	1947055836
SNP_P4_186691_1126	NW_004519218.1	Scaffold4970	1126	AA	GG	1947055838
SNP_P4_186692_1134	NW_004519218.1	Scaffold4970	1134	GG	AA	1947055840
SNP_P4_186693_1353	NW_004519220.1	Scaffold4972	1353	AA	GG	1947055842
SNP_P4_186694_1400	NW_004519220.1	Scaffold4972	1400	TT	GG	1947055847
SNP_P4_186695_1463	NW_004519220.1	Scaffold4972	1463	AA	TT	1947055849
SNP_P4_186696_1465	NW_004519220.1	Scaffold4972	1465	GG	TT	1947055851
SNP_P4_186697_1482	NW_004519220.1	Scaffold4972	1482	GG	AA	1947055853
SNP_P4_186698_1302	NW_004519225.1	Scaffold4978	1302	TT	CC	1947055855
SNP_P4_186699_7819	NW_004519225.1	Scaffold4978	7819	TT	CC	1947055857
SNP_P4_186700_11073	NW_004519225.1	Scaffold4978	11073	TT	CC	1947055859
SNP_P4_186701_11668	NW_004519225.1	Scaffold4978	11668	TT	AA	1947055861
SNP_P4_186702_13460	NW_004519225.1	Scaffold4978	13460	TT	CC	1947055863
SNP_P4_186703_19259	NW_004519225.1	Scaffold4978	19259	CC	TT	1947055865
SNP_P4_186704_27104	NW_004519225.1	Scaffold4978	27104	CC	TT	1947055867
SNP_P4_186705_41503	NW_004519225.1	Scaffold4978	41503	AA	GG	1947055869
SNP_P4_186706_126	NW_004519226.1	Scaffold4979	126	TT	CC	1947055871
SNP_P4_186707_1049	NW_004519230.1	Scaffold4983	1049	AA	CC	1947055873
SNP_P4_186708_1166	NW_004519230.1	Scaffold4983	1166	TT	CC	1947055875
SNP_P4_186709_20793	NW_004519230.1	Scaffold4983	20793	AA	GG	1947055877
SNP_P4_186710_20850	NW_004519230.1	Scaffold4983	20850	TT	GG	1947055879
SNP_P4_186711_20901	NW_004519230.1	Scaffold4983	20901	AA	CC	1947055881
SNP_P4_186712_21187	NW_004519230.1	Scaffold4983	21187	GG	TT	1947055883
SNP_P4_186713_21230	NW_004519230.1	Scaffold4983	21230	GG	AA	1947055884
SNP_P4_186714_23642	NW_004519230.1	Scaffold4983	23642	TT	GG	1947055885
SNP_P4_186715_23847	NW_004519230.1	Scaffold4983	23847	TT	CC	1947055886
SNP_P4_186716_23863	NW_004519230.1	Scaffold4983	23863	GG	AA	1947055887

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_186718_23916	NW_004519230.1	Scaffold4983	23916	CC	AA	1947055889
SNP_P4_186719_23978	NW_004519230.1	Scaffold4983	23978	GG	AA	1947055890
SNP_P4_186720_26869	NW_004519230.1	Scaffold4983	26869	CC	TT	1947055891
SNP_P4_186721_26981	NW_004519230.1	Scaffold4983	26981	TT	CC	1947055892
SNP_P4_186722_27039	NW_004519230.1	Scaffold4983	27039	GG	AA	1947055893
SNP_P4_186726_27361	NW_004519230.1	Scaffold4983	27361	TT	CC	1947055894
SNP_P4_186727_27375	NW_004519230.1	Scaffold4983	27375	TT	CC	1947055895
SNP_P4_186728_27552	NW_004519230.1	Scaffold4983	27552	TT	AA	1947055896
SNP_P4_186729_27976	NW_004519230.1	Scaffold4983	27976	TT	CC	1947055897
SNP_P4_186730_64	NW_004519231.1	Scaffold4984	64	TT	AA	1947055898
SNP_P4_186731_117	NW_004519231.1	Scaffold4984	117	TT	GG	1947055899
SNP_P4_186732_416	NW_004519231.1	Scaffold4984	416	AA	CC	1947055900
SNP_P4_186733_516	NW_004519231.1	Scaffold4984	516	GG	TT	1947055901
SNP_P4_186734_569	NW_004519231.1	Scaffold4984	569	GG	AA	1947055902
SNP_P4_186735_865	NW_004519231.1	Scaffold4984	865	TT	CC	1947055904
SNP_P4_186736_999	NW_004519231.1	Scaffold4984	999	AA	GG	1947055906
SNP_P4_186737_1012	NW_004519231.1	Scaffold4984	1012	AA	GG	1947055908
SNP_P4_186738_1048	NW_004519231.1	Scaffold4984	1048	AA	GG	1947055910
SNP_P4_186739_1053	NW_004519231.1	Scaffold4984	1053	AA	CC	1947055912
SNP_P4_186740_1323	NW_004519231.1	Scaffold4984	1323	AA	CC	1947055914
SNP_P4_186741_6625	NW_004519234.1	Scaffold4989	6625	TT	CC	1947055916
SNP_P4_186742_4861	NW_004519235.1	Scaffold4991	4861	AA	GG	1947055918
SNP_P4_186743_4871	NW_004519235.1	Scaffold4991	4871	GG	AA	1947055920
SNP_P4_186744_889	NW_004519238.1	Scaffold4994	889	GG	AA	1947055922
SNP_P4_186746_220	NW_004519239.1	Scaffold4996	220	CC	GG	1947055924
SNP_P4_186747_403	NW_004519239.1	Scaffold4996	403	TT	AA	1947055926
SNP_P4_186748_405	NW_004519239.1	Scaffold4996	405	GG	TT	1947055928
SNP_P4_186749_408	NW_004519239.1	Scaffold4996	408	CC	TT	1947055930
SNP_P4_186750_1581	NW_004519239.1	Scaffold4996	1581	AA	TT	1947055932
SNP_P4_186751_1583	NW_004519239.1	Scaffold4996	1583	GG	TT	1947055934
SNP_P4_186752_1689	NW_004519239.1	Scaffold4996	1689	CC	TT	1947055936
SNP_P4_186753_2127	NW_004519239.1	Scaffold4996	2127	AA	TT	1947055938
SNP_P4_186754_324	NW_004519240.1	Scaffold4998	324	AA	TT	1947055940
SNP_P4_186755_642	NW_004519242.1	Scaffold5001	642	AA	TT	1947055942
SNP_P4_186756_659	NW_004519242.1	Scaffold5001	659	AA	GG	1947055944
SNP_P4_186757_958	NW_004519242.1	Scaffold5001	958	CC	TT	1947055946
SNP_P4_186758_398	NW_004519247.1	Scaffold5010	398	GG	TT	1947055948
SNP_P4_186759_745	NW_004519249.1	Scaffold5013	745	CC	TT	1947055950
SNP_P4_186760_405	NW_004519250.1	Scaffold5014	405	GG	AA	1947055952
SNP_P4_186762_4114	NW_004519251.1	Scaffold5016	4114	AA	GG	1947055954
SNP_P4_186763_4366	NW_004519251.1	Scaffold5016	4366	TT	GG	1947055956

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_186765_4374	NW_004519251.1	Scaffold5016	4374	CC	TT	1947055960
SNP_P4_186766_4389	NW_004519251.1	Scaffold5016	4389	GG	CC	1947055962
SNP_P4_186767_4405	NW_004519251.1	Scaffold5016	4405	TT	AA	1947055964
SNP_P4_186768_4406	NW_004519251.1	Scaffold5016	4406	TT	CC	1947055966
SNP_P4_186769_4424	NW_004519251.1	Scaffold5016	4424	AA	GG	1947055968
SNP_P4_186770_4435	NW_004519251.1	Scaffold5016	4435	CC	GG	1947055970
SNP_P4_186771_4452	NW_004519251.1	Scaffold5016	4452	AA	GG	1947055972
SNP_P4_186772_4480	NW_004519251.1	Scaffold5016	4480	TT	GG	1947055974
SNP_P4_186773_4489	NW_004519251.1	Scaffold5016	4489	AA	CC	1947055976
SNP_P4_186775_4690	NW_004519251.1	Scaffold5016	4690	GG	TT	1947055978
SNP_P4_186776_4925	NW_004519251.1	Scaffold5016	4925	TT	CC	1947055980
SNP_P4_186777_931	NW_004519254.1	Scaffold5023	931	AA	TT	1947055982
SNP_P4_186778_934	NW_004519254.1	Scaffold5023	934	TT	AA	1947055984
SNP_P4_186779_941	NW_004519254.1	Scaffold5023	941	CC	GG	1947055986
SNP_P4_186780_1048	NW_004519254.1	Scaffold5023	1048	AA	CC	1947055988
SNP_P4_186781_5464	NW_004519254.1	Scaffold5023	5464	GG	TT	1947055990
SNP_P4_186782_5495	NW_004519254.1	Scaffold5023	5495	GG	AA	1947055992
SNP_P4_186783_9028	NW_004519254.1	Scaffold5023	9028	AA	CC	1947055994
SNP_P4_186784_9100	NW_004519254.1	Scaffold5023	9100	AA	GG	1947055996
SNP_P4_186785_9130	NW_004519254.1	Scaffold5023	9130	TT	CC	1947055998
SNP_P4_186786_9193	NW_004519254.1	Scaffold5023	9193	CC	TT	1947056000
SNP_P4_186787_9259	NW_004519254.1	Scaffold5023	9259	TT	CC	1947056002
SNP_P4_186788_734	NW_004519256.1	Scaffold5025	734	CC	AA	1947056004
SNP_P4_186789_768	NW_004519258.1	Scaffold5028	768	GG	AA	1947056006
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SNP_P4_186791_854	NW_004519258.1	Scaffold5028	854	CC	TT	1947056010
SNP_P4_186792_868	NW_004519258.1	Scaffold5028	868	CC	AA	1947056012
SNP_P4_186793_960	NW_004519258.1	Scaffold5028	960	GG	AA	1947056014
SNP_P4_186794_981	NW_004519258.1	Scaffold5028	981	AA	GG	1947056016
SNP_P4_186795_1039	NW_004519258.1	Scaffold5028	1039	AA	GG	1947056019
SNP_P4_186796_1054	NW_004519258.1	Scaffold5028	1054	TT	GG	1947056021
SNP_P4_186797_1075	NW_004519258.1	Scaffold5028	1075	AA	CC	1947056023
SNP_P4_186798_1122	NW_004519258.1	Scaffold5028	1122	TT	CC	1947056025
SNP_P4_186799_403	NW_004519260.1	Scaffold5030	403	GG	AA	1947056027
SNP_P4_186800_803	NW_004519260.1	Scaffold5030	803	GG	AA	1947056029
SNP_P4_186801_892	NW_004519260.1	Scaffold5030	892	TT	CC	1947056031
SNP_P4_186803_985	NW_004519260.1	Scaffold5030	985	GG	TT	1947056033
SNP_P4_186804_1011	NW_004519260.1	Scaffold5030	1011	GG	TT	1947056035
SNP_P4_186805_1092	NW_004519260.1	Scaffold5030	1092	AA	TT	1947056037
SNP_P4_186806_1118	NW_004519260.1	Scaffold5030	1118	GG	CC	1947056039
SNP_P4_186807_1121	NW_004519260.1	Scaffold5030	1121	GG	AA	1947056041

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_186809_1194	NW_004519260.1	Scaffold5030	1194	TT	CC	1947056045
SNP_P4_186810_11755	NW_004519260.1	Scaffold5030	11755	TT	CC	1947056054
SNP_P4_186812_18514	NW_004519260.1	Scaffold5030	18514	CC	TT	1947056056
SNP_P4_186813_18551	NW_004519260.1	Scaffold5030	18551	TT	CC	1947056058
SNP_P4_186814_18885	NW_004519260.1	Scaffold5030	18885	TT	CC	1947056060
SNP_P4_186815_138	NW_004519261.1	Scaffold5031	138	AA	GG	1947056062
SNP_P4_186816_468	NW_004519261.1	Scaffold5031	468	GG	AA	1947056064
SNP_P4_186817_408	NW_004519263.1	Scaffold5033	408	AA	TT	1947056066
SNP_P4_186818_416	NW_004519263.1	Scaffold5033	416	CC	GG	1947056068
SNP_P4_186819_1161	NW_004519263.1	Scaffold5033	1161	GG	TT	1947056070
SNP_P4_186820_2038	NW_004519263.1	Scaffold5033	2038	TT	GG	1947056072
SNP_P4_186821_2085	NW_004519263.1	Scaffold5033	2085	AA	GG	1947056074
SNP_P4_186822_2151	NW_004519263.1	Scaffold5033	2151	CC	TT	1947056077
SNP_P4_186823_563	NW_004519273.1	Scaffold5052	563	AA	TT	1947056079
SNP_P4_186824_157	NW_004519278.1	Scaffold5059	157	GG	AA	1947056081
SNP_P4_186825_165	NW_004519278.1	Scaffold5059	165	GG	AA	1947056083
SNP_P4_186826_223	NW_004519278.1	Scaffold5059	223	AA	GG	1947056085
SNP_P4_186827_480	NW_004519278.1	Scaffold5059	480	AA	CC	1947056087
SNP_P4_186828_507	NW_004519278.1	Scaffold5059	507	GG	CC	1947056089
SNP_P4_186829_529	NW_004519278.1	Scaffold5059	529	GG	TT	1947056091
SNP_P4_186830_547	NW_004519278.1	Scaffold5059	547	CC	GG	1947056093
SNP_P4_186831_2051	NW_004519279.1	Scaffold5063	2051	TT	GG	1947056095
SNP_P4_186832_64	NW_004519286.1	Scaffold5072	64	AA	TT	1947056097
SNP_P4_186833_90	NW_004519286.1	Scaffold5072	90	CC	GG	1947056099
SNP_P4_186834_133	NW_004519286.1	Scaffold5072	133	GG	CC	1947056101
SNP_P4_186835_136	NW_004519286.1	Scaffold5072	136	GG	CC	1947056103
SNP_P4_186836_222	NW_004519286.1	Scaffold5072	222	GG	AA	1947056105
SNP_P4_186837_326	NW_004519286.1	Scaffold5072	326	TT	AA	1947056107
SNP_P4_186839_519	NW_004519286.1	Scaffold5072	519	TT	AA	1947056109
SNP_P4_186840_5437	NW_004519286.1	Scaffold5072	5437	TT	CC	1947056111
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SNP_P4_186842_5687	NW_004519286.1	Scaffold5072	5687	AA	GG	1947056115
SNP_P4_186843_5716	NW_004519286.1	Scaffold5072	5716	CC	TT	1947056117
SNP_P4_186844_5746	NW_004519286.1	Scaffold5072	5746	CC	AA	1947056119
SNP_P4_186845_5851	NW_004519286.1	Scaffold5072	5851	TT	CC	1947056121
SNP_P4_186846_5896	NW_004519286.1	Scaffold5072	5896	CC	TT	1947056123
SNP_P4_186847_6028	NW_004519286.1	Scaffold5072	6028	TT	CC	1947056125
SNP_P4_186848_6090	NW_004519286.1	Scaffold5072	6090	CC	AA	1947056127
SNP_P4_186849_6109	NW_004519286.1	Scaffold5072	6109	AA	CC	1947056129
SNP_P4_186850_6121	NW_004519286.1	Scaffold5072	6121	TT	GG	1947056131
SNP_P4_186851_6139	NW_004519286.1	Scaffold5072	6139	GG	AA	1947056133

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_186853_6272	NW_004519286.1	Scaffold5072	6272	CC	TT	1947056137
SNP_P4_186854_6320	NW_004519286.1	Scaffold5072	6320	AA	GG	1947056139
SNP_P4_186855_6374	NW_004519286.1	Scaffold5072	6374	TT	AA	1947056141
SNP_P4_186856_6407	NW_004519286.1	Scaffold5072	6407	CC	GG	1947056143
SNP_P4_186857_6414	NW_004519286.1	Scaffold5072	6414	AA	TT	1947056146
SNP_P4_186858_1351	NW_004519290.1	Scaffold5076	1351	GG	TT	1947056148
SNP_P4_186859_1387	NW_004519290.1	Scaffold5076	1387	GG	TT	1947056150
SNP_P4_186860_1396	NW_004519290.1	Scaffold5076	1396	AA	GG	1947056151
SNP_P4_186861_63	NW_004519293.1	Scaffold5081	63	CC	TT	1947056153
SNP_P4_186862_107	NW_004519293.1	Scaffold5081	107	GG	AA	1947056156
SNP_P4_186863_453	NW_004519293.1	Scaffold5081	453	AA	TT	1947056158
SNP_P4_186864_461	NW_004519293.1	Scaffold5081	461	CC	AA	1947056159
SNP_P4_186865_469	NW_004519293.1	Scaffold5081	469	AA	GG	1947056161
SNP_P4_186866_471	NW_004519293.1	Scaffold5081	471	CC	TT	1947056163
SNP_P4_186867_376	NW_004519294.1	Scaffold5082	376	AA	GG	1947056165
SNP_P4_186868_509	NW_004519294.1	Scaffold5082	509	TT	CC	1947056167
SNP_P4_186869_722	NW_004519294.1	Scaffold5082	722	AA	GG	1947056169
SNP_P4_186870_808	NW_004519294.1	Scaffold5082	808	AA	CC	1947056171
SNP_P4_186871_955	NW_004519294.1	Scaffold5082	955	CC	TT	1947056173
SNP_P4_186872_966	NW_004519294.1	Scaffold5082	966	TT	GG	1947056176
SNP_P4_186873_64	NW_004519295.1	Scaffold5083	64	CC	TT	1947056178
SNP_P4_186874_101	NW_004519295.1	Scaffold5083	101	AA	GG	1947056180
SNP_P4_186875_613	NW_004519295.1	Scaffold5083	613	AA	TT	1947056182
SNP_P4_186876_787	NW_004519295.1	Scaffold5083	787	CC	AA	1947056184
SNP_P4_186877_4120	NW_004519295.1	Scaffold5083	4120	CC	AA	1947056186
SNP_P4_186878_4156	NW_004519295.1	Scaffold5083	4156	AA	TT	1947056188
SNP_P4_186879_7066	NW_004519295.1	Scaffold5083	7066	AA	CC	1947056190
SNP_P4_186880_7284	NW_004519295.1	Scaffold5083	7284	TT	AA	1947056192
SNP_P4_186881_1178	NW_004519297.1	Scaffold5086	1178	AA	CC	1947056194
SNP_P4_186882_1219	NW_004519297.1	Scaffold5086	1219	AA	CC	1947056196
SNP_P4_186883_3259	NW_004519297.1	Scaffold5086	3259	GG	CC	1947056198
SNP_P4_186884_3124	NW_004519298.1	Scaffold5089	3124	CC	TT	1947056200
SNP_P4_186885_3160	NW_004519298.1	Scaffold5089	3160	TT	CC	1947056202
SNP_P4_186886_3162	NW_004519298.1	Scaffold5089	3162	AA	GG	1947056204
SNP_P4_186887_3185	NW_004519298.1	Scaffold5089	3185	TT	CC	1947056206
SNP_P4_186888_3193	NW_004519298.1	Scaffold5089	3193	CC	GG	1947056208
SNP_P4_186889_3213	NW_004519298.1	Scaffold5089	3213	GG	AA	1947056211
SNP_P4_186890_3271	NW_004519298.1	Scaffold5089	3271	CC	TT	1947056213
SNP_P4_186891_3286	NW_004519298.1	Scaffold5089	3286	AA	GG	1947056215
SNP_P4_186892_3383	NW_004519298.1	Scaffold5089	3383	GG	AA	1947056217
SNP_P4_186893_3417	NW_004519298.1	Scaffold5089	3417	AA	GG	1947056219

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_186895_3432	NW_004519298.1	Scaffold5089	3432	CC	TT	1947056223
SNP_P4_186896_3444	NW_004519298.1	Scaffold5089	3444	TT	AA	1947056225
SNP_P4_186897_3483	NW_004519298.1	Scaffold5089	3483	CC	AA	1947056227
SNP_P4_186898_3489	NW_004519298.1	Scaffold5089	3489	AA	GG	1947056229
SNP_P4_186899_3530	NW_004519298.1	Scaffold5089	3530	AA	GG	1947056231
SNP_P4_186900_3535	NW_004519298.1	Scaffold5089	3535	GG	TT	1947056233
SNP_P4_186901_3578	NW_004519298.1	Scaffold5089	3578	GG	AA	1947056236
SNP_P4_186902_3735	NW_004519298.1	Scaffold5089	3735	TT	GG	1947056238
SNP_P4_186903_5663	NW_004519298.1	Scaffold5089	5663	TT	GG	1947056240
SNP_P4_186904_5667	NW_004519298.1	Scaffold5089	5667	TT	AA	1947056242
SNP_P4_186905_5873	NW_004519298.1	Scaffold5089	5873	AA	GG	1947056244
SNP_P4_186906_6062	NW_004519298.1	Scaffold5089	6062	TT	GG	1947056246
SNP_P4_186907_7130	NW_004519298.1	Scaffold5089	7130	AA	CC	1947056248
SNP_P4_186908_7160	NW_004519298.1	Scaffold5089	7160	AA	GG	1947056250
SNP_P4_186909_7358	NW_004519298.1	Scaffold5089	7358	AA	GG	1947056252
SNP_P4_186910_7481	NW_004519298.1	Scaffold5089	7481	CC	GG	1947056254
SNP_P4_186911_7589	NW_004519298.1	Scaffold5089	7589	TT	CC	1947056256
SNP_P4_186912_593	NW_004519299.1	Scaffold5090	593	CC	TT	1947056258
SNP_P4_186913_1019	NW_004519299.1	Scaffold5090	1019	CC	TT	1947056260
SNP_P4_186914_707	NW_004519300.1	Scaffold5094	707	AA	CC	1947056262
SNP_P4_186915_1141	NW_004519300.1	Scaffold5094	1141	CC	TT	1947056264
SNP_P4_186916_2180	NW_004519300.1	Scaffold5094	2180	TT	CC	1947056266
SNP_P4_186918_70	NW_004519305.1	Scaffold5103	70	TT	AA	1947056268
SNP_P4_186920_181	NW_004519305.1	Scaffold5103	181	GG	TT	1947056270
SNP_P4_186921_287	NW_004519305.1	Scaffold5103	287	GG	AA	1947056272
SNP_P4_186922_1429	NW_004519306.1	Scaffold5105	1429	TT	CC	1947056275
SNP_P4_186923_1684	NW_004519306.1	Scaffold5105	1684	TT	GG	1947056277
SNP_P4_186924_1716	NW_004519306.1	Scaffold5105	1716	GG	AA	1947056279
SNP_P4_186925_2067	NW_004519306.1	Scaffold5105	2067	CC	TT	1947056281
SNP_P4_186926_2068	NW_004519306.1	Scaffold5105	2068	GG	AA	1947056283
SNP_P4_186927_512	NW_004519308.1	Scaffold5111	512	CC	GG	1947056285
SNP_P4_186928_578	NW_004519308.1	Scaffold5111	578	CC	TT	1947056287
SNP_P4_186929_582	NW_004519308.1	Scaffold5111	582	TT	CC	1947056288
SNP_P4_186930_603	NW_004519308.1	Scaffold5111	603	CC	AA	1947056289
SNP_P4_186931_622	NW_004519308.1	Scaffold5111	622	AA	TT	1947056290
SNP_P4_186932_776	NW_004519308.1	Scaffold5111	776	AA	TT	1947056291
SNP_P4_186933_808	NW_004519308.1	Scaffold5111	808	AA	TT	1947056292
SNP_P4_186934_907	NW_004519308.1	Scaffold5111	907	GG	AA	1947056293
SNP_P4_186935_919	NW_004519308.1	Scaffold5111	919	TT	CC	1947056294
SNP_P4_186936_961	NW_004519308.1	Scaffold5111	961	CC	TT	1947056295
SNP_P4_186937_4653	NW_004519309.1	Scaffold5113	4653	AA	GG	1947056296

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_186939_4805	NW_004519309.1	Scaffold5113	4805	GG	TT	1947056298
SNP_P4_186941_20506	NW_004519311.1	Scaffold5115	20506	AA	CC	1947056299
SNP_P4_186942_20548	NW_004519311.1	Scaffold5115	20548	AA	CC	1947056300
SNP_P4_186943_20628	NW_004519311.1	Scaffold5115	20628	GG	TT	1947056301
SNP_P4_186944_20831	NW_004519311.1	Scaffold5115	20831	TT	GG	1947056302
SNP_P4_186945_2149	NW_004519314.1	Scaffold5120	2149	CC	GG	1947056303
SNP_P4_186946_2509	NW_004519314.1	Scaffold5120	2509	CC	TT	1947056304
SNP_P4_186947_7618	NW_004519314.1	Scaffold5120	7618	AA	TT	1947056305
SNP_P4_186948_7750	NW_004519314.1	Scaffold5120	7750	TT	GG	1947056306
SNP_P4_186951_15237	NW_004519314.1	Scaffold5120	15237	CC	TT	1947056307
SNP_P4_186953_15563	NW_004519314.1	Scaffold5120	15563	TT	CC	1947056309
SNP_P4_186954_16079	NW_004519314.1	Scaffold5120	16079	AA	GG	1947056311
SNP_P4_186955_16153	NW_004519314.1	Scaffold5120	16153	GG	AA	1947056313
SNP_P4_186956_16326	NW_004519314.1	Scaffold5120	16326	TT	CC	1947056315
SNP_P4_186957_16349	NW_004519314.1	Scaffold5120	16349	GG	TT	1947056316
SNP_P4_186958_16403	NW_004519314.1	Scaffold5120	16403	CC	AA	1947056319
SNP_P4_186959_16593	NW_004519314.1	Scaffold5120	16593	GG	AA	1947056321
SNP_P4_186960_617	NW_004519318.1	Scaffold5125	617	GG	TT	1947056323
SNP_P4_186961_932	NW_004519318.1	Scaffold5125	932	AA	TT	1947056325
SNP_P4_186962_6776	NW_004519319.1	Scaffold5126	6776	CC	GG	1947056326
SNP_P4_186963_1747	NW_004519322.1	Scaffold5129	1747	CC	TT	1947056329
SNP_P4_186964_1839	NW_004519322.1	Scaffold5129	1839	AA	GG	1947056331
SNP_P4_186965_118	NW_004519324.1	Scaffold5135	118	AA	TT	1947056333
SNP_P4_186966_3260	NW_004519324.1	Scaffold5135	3260	AA	GG	1947056335
SNP_P4_186967_152	NW_004519328.1	Scaffold5143	152	GG	TT	1947056337
SNP_P4_186969_264	NW_004519331.1	Scaffold5146	264	TT	GG	1947056339
SNP_P4_186970_2243	NW_004519331.1	Scaffold5146	2243	TT	CC	1947056341
SNP_P4_186972_1922	NW_004519337.1	Scaffold5155	1922	GG	AA	1947056343
SNP_P4_186973_1985	NW_004519337.1	Scaffold5155	1985	GG	AA	1947056345
SNP_P4_186974_2061	NW_004519337.1	Scaffold5155	2061	GG	CC	1947056347
SNP_P4_186975_2109	NW_004519337.1	Scaffold5155	2109	AA	TT	1947056349
SNP_P4_186976_2121	NW_004519337.1	Scaffold5155	2121	AA	TT	1947056351
SNP_P4_186977_2141	NW_004519337.1	Scaffold5155	2141	GG	AA	1947056353
SNP_P4_186978_2155	NW_004519337.1	Scaffold5155	2155	GG	AA	1947056355
SNP_P4_186979_2167	NW_004519337.1	Scaffold5155	2167	AA	GG	1947056357
SNP_P4_186980_2179	NW_004519337.1	Scaffold5155	2179	AA	CC	1947056359
SNP_P4_186981_2228	NW_004519337.1	Scaffold5155	2228	CC	AA	1947056361
SNP_P4_186982_2233	NW_004519337.1	Scaffold5155	2233	AA	GG	1947056363
SNP_P4_186983_2235	NW_004519337.1	Scaffold5155	2235	AA	GG	1947056365
SNP_P4_186984_2251	NW_004519337.1	Scaffold5155	2251	TT	GG	1947056367
SNP_P4_186985_4643	NW_004519337.1	Scaffold5155	4643	GG	AA	1947056369

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_186987_4704	NW_004519337.1	Scaffold5155	4704	AA	TT	1947056373
SNP_P4_186988_4711	NW_004519337.1	Scaffold5155	4711	TT	CC	1947056375
SNP_P4_186989_4934	NW_004519337.1	Scaffold5155	4934	GG	TT	1947056377
SNP_P4_186990_4942	NW_004519337.1	Scaffold5155	4942	CC	GG	1947056379
SNP_P4_186991_4957	NW_004519337.1	Scaffold5155	4957	AA	TT	1947056381
SNP_P4_186992_5085	NW_004519337.1	Scaffold5155	5085	CC	GG	1947056383
SNP_P4_186993_5164	NW_004519337.1	Scaffold5155	5164	AA	CC	1947056385
SNP_P4_186995_5678	NW_004519337.1	Scaffold5155	5678	AA	GG	1947056387
SNP_P4_186997_5857	NW_004519337.1	Scaffold5155	5857	AA	GG	1947056389
SNP_P4_186999_5946	NW_004519337.1	Scaffold5155	5946	TT	CC	1947056391
SNP_P4_187000_5987	NW_004519337.1	Scaffold5155	5987	TT	CC	1947056393
SNP_P4_187001_5988	NW_004519337.1	Scaffold5155	5988	TT	GG	1947056395
SNP_P4_187002_6049	NW_004519337.1	Scaffold5155	6049	AA	GG	1947056397
SNP_P4_187003_6091	NW_004519337.1	Scaffold5155	6091	GG	AA	1947056399
SNP_P4_187004_204	NW_004519338.1	Scaffold5156	204	TT	AA	1947056401
SNP_P4_187005_212	NW_004519338.1	Scaffold5156	212	AA	GG	1947056403
SNP_P4_187006_453	NW_004519338.1	Scaffold5156	453	TT	CC	1947056405
SNP_P4_187007_493	NW_004519338.1	Scaffold5156	493	AA	CC	1947056407
SNP_P4_187008_801	NW_004519338.1	Scaffold5156	801	AA	CC	1947056409
SNP_P4_187009_4734	NW_004519339.1	Scaffold5157	4734	TT	AA	1947056411
SNP_P4_187012_5804	NW_004519340.1	Scaffold5158	5804	AA	GG	1947056413
SNP_P4_187013_6229	NW_004519340.1	Scaffold5158	6229	AA	CC	1947056415
SNP_P4_187014_6245	NW_004519340.1	Scaffold5158	6245	AA	GG	1947056417
SNP_P4_187015_6297	NW_004519340.1	Scaffold5158	6297	CC	TT	1947056419
SNP_P4_187016_6303	NW_004519340.1	Scaffold5158	6303	CC	TT	1947056421
SNP_P4_187018_6553	NW_004519340.1	Scaffold5158	6553	TT	CC	1947056423
SNP_P4_187020_6597	NW_004519340.1	Scaffold5158	6597	TT	CC	1947056425
SNP_P4_187021_6620	NW_004519340.1	Scaffold5158	6620	GG	TT	1947056427
SNP_P4_187022_6955	NW_004519340.1	Scaffold5158	6955	CC	AA	1947056429
SNP_P4_187023_8320	NW_004519340.1	Scaffold5158	8320	GG	AA	1947056431
SNP_P4_187024_9955	NW_004519340.1	Scaffold5158	9955	CC	AA	1947056433
SNP_P4_187025_10500	NW_004519340.1	Scaffold5158	10500	AA	GG	1947056435
SNP_P4_187026_13365	NW_004519340.1	Scaffold5158	13365	GG	AA	1947056437
SNP_P4_187027_13376	NW_004519340.1	Scaffold5158	13376	AA	CC	1947056439
SNP_P4_187028_13557	NW_004519340.1	Scaffold5158	13557	GG	TT	1947056441
SNP_P4_187029_13766	NW_004519340.1	Scaffold5158	13766	CC	TT	1947056443
SNP_P4_187031_14011	NW_004519340.1	Scaffold5158	14011	TT	GG	1947056445
SNP_P4_187032_14060	NW_004519340.1	Scaffold5158	14060	CC	GG	1947056448
SNP_P4_187033_14159	NW_004519340.1	Scaffold5158	14159	TT	CC	1947056450
SNP_P4_187034_14192	NW_004519340.1	Scaffold5158	14192	TT	CC	1947056452
SNP_P4_187035_14216	NW_004519340.1	Scaffold5158	14216	TT	CC	1947056454

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_187037_14316	NW_004519340.1	Scaffold5158	14316	GG	TT	1947056458
SNP_P4_187038_14325	NW_004519340.1	Scaffold5158	14325	AA	TT	1947056460
SNP_P4_187039_14494	NW_004519340.1	Scaffold5158	14494	GG	TT	1947056462
SNP_P4_187040_14717	NW_004519340.1	Scaffold5158	14717	CC	TT	1947056464
SNP_P4_187041_16527	NW_004519340.1	Scaffold5158	16527	CC	TT	1947056466
SNP_P4_187042_16673	NW_004519340.1	Scaffold5158	16673	CC	TT	1947056468
SNP_P4_187043_16702	NW_004519340.1	Scaffold5158	16702	TT	CC	1947056470
SNP_P4_187044_16746	NW_004519340.1	Scaffold5158	16746	CC	TT	1947056472
SNP_P4_187045_16812	NW_004519340.1	Scaffold5158	16812	GG	AA	1947056474
SNP_P4_187046_16843	NW_004519340.1	Scaffold5158	16843	AA	GG	1947056476
SNP_P4_187047_16941	NW_004519340.1	Scaffold5158	16941	GG	AA	1947056478
SNP_P4_187048_17025	NW_004519340.1	Scaffold5158	17025	AA	GG	1947056480
SNP_P4_187050_17115	NW_004519340.1	Scaffold5158	17115	TT	CC	1947056482
SNP_P4_187051_17138	NW_004519340.1	Scaffold5158	17138	CC	AA	1947056484
SNP_P4_187052_17140	NW_004519340.1	Scaffold5158	17140	GG	AA	1947056486
SNP_P4_187053_17289	NW_004519340.1	Scaffold5158	17289	AA	GG	1947056488
SNP_P4_187054_17298	NW_004519340.1	Scaffold5158	17298	TT	GG	1947056490
SNP_P4_187055_17347	NW_004519340.1	Scaffold5158	17347	TT	CC	1947056492
SNP_P4_187056_17405	NW_004519340.1	Scaffold5158	17405	GG	AA	1947056494
SNP_P4_187057_17410	NW_004519340.1	Scaffold5158	17410	TT	CC	1947056496
SNP_P4_187058_17436	NW_004519340.1	Scaffold5158	17436	GG	AA	1947056498
SNP_P4_187059_17490	NW_004519340.1	Scaffold5158	17490	AA	GG	1947056500
SNP_P4_187060_17631	NW_004519340.1	Scaffold5158	17631	GG	AA	1947056502
SNP_P4_187061_17683	NW_004519340.1	Scaffold5158	17683	TT	CC	1947056504
SNP_P4_187062_17684	NW_004519340.1	Scaffold5158	17684	GG	AA	1947056506
SNP_P4_187063_17794	NW_004519340.1	Scaffold5158	17794	CC	TT	1947056508
SNP_P4_187064_17850	NW_004519340.1	Scaffold5158	17850	TT	CC	1947056510
SNP_P4_187066_18206	NW_004519340.1	Scaffold5158	18206	TT	GG	1947056512
SNP_P4_187067_18216	NW_004519340.1	Scaffold5158	18216	TT	CC	1947056514
SNP_P4_187068_18308	NW_004519340.1	Scaffold5158	18308	AA	GG	1947056516
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SNP_P4_187070_18524	NW_004519340.1	Scaffold5158	18524	AA	CC	1947056521
SNP_P4_187071_18534	NW_004519340.1	Scaffold5158	18534	GG	AA	1947056523
SNP_P4_187072_18742	NW_004519340.1	Scaffold5158	18742	GG	AA	1947056525
SNP_P4_187073_18782	NW_004519340.1	Scaffold5158	18782	GG	AA	1947056527
SNP_P4_187074_18937	NW_004519340.1	Scaffold5158	18937	TT	CC	1947056529
SNP_P4_187075_19012	NW_004519340.1	Scaffold5158	19012	AA	GG	1947056531
SNP_P4_187076_19046	NW_004519340.1	Scaffold5158	19046	AA	TT	1947056533
SNP_P4_187077_19047	NW_004519340.1	Scaffold5158	19047	AA	GG	1947056535
SNP_P4_187078_21356	NW_004519340.1	Scaffold5158	21356	TT	AA	1947056537
SNP_P4_187079_21446	NW_004519340.1	Scaffold5158	21446	GG	AA	1947056539

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_187081_21584	NW_004519340.1	Scaffold5158	21584	TT	CC	1947056543
SNP_P4_187082_1208	NW_004519343.1	Scaffold5161	1208	GG	AA	1947056545
SNP_P4_187083_1278	NW_004519343.1	Scaffold5161	1278	TT	CC	1947056547
SNP_P4_187084_1454	NW_004519343.1	Scaffold5161	1454	TT	CC	1947056549
SNP_P4_187085_457	NW_004519345.1	Scaffold5163	457	TT	AA	1947056551
SNP_P4_187086_932	NW_004519347.1	Scaffold5165	932	AA	GG	1947056553
SNP_P4_187087_1098	NW_004519347.1	Scaffold5165	1098	TT	CC	1947056555
SNP_P4_187088_1255	NW_004519347.1	Scaffold5165	1255	CC	AA	1947056557
SNP_P4_187089_1311	NW_004519347.1	Scaffold5165	1311	TT	AA	1947056559
SNP_P4_187090_1322	NW_004519347.1	Scaffold5165	1322	GG	TT	1947056561
SNP_P4_187091_1328	NW_004519347.1	Scaffold5165	1328	AA	GG	1947056563
SNP_P4_187092_1331	NW_004519347.1	Scaffold5165	1331	CC	AA	1947056565
SNP_P4_187093_1363	NW_004519347.1	Scaffold5165	1363	CC	TT	1947056567
SNP_P4_187095_1639	NW_004519347.1	Scaffold5165	1639	AA	TT	1947056569
SNP_P4_187096_1763	NW_004519347.1	Scaffold5165	1763	TT	CC	1947056571
SNP_P4_187097_463	NW_004519356.1	Scaffold5180	463	CC	TT	1947056573
SNP_P4_187098_5141	NW_004519358.1	Scaffold5185	5141	CC	GG	1947056575
SNP_P4_187099_5145	NW_004519358.1	Scaffold5185	5145	CC	TT	1947056577
SNP_P4_187100_5418	NW_004519358.1	Scaffold5185	5418	AA	CC	1947056579
SNP_P4_187101_5437	NW_004519358.1	Scaffold5185	5437	AA	GG	1947056581
SNP_P4_187102_5793	NW_004519358.1	Scaffold5185	5793	TT	GG	1947056583
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SNP_P4_187104_6060	NW_004519358.1	Scaffold5185	6060	GG	CC	1947056587
SNP_P4_187105_6236	NW_004519359.1	Scaffold5186	6236	CC	TT	1947056589
SNP_P4_187106_7460	NW_004519359.1	Scaffold5186	7460	CC	TT	1947056591
SNP_P4_187107_7606	NW_004519359.1	Scaffold5186	7606	CC	AA	1947056593
SNP_P4_187108_8253	NW_004519359.1	Scaffold5186	8253	CC	GG	1947056595
SNP_P4_187109_8264	NW_004519359.1	Scaffold5186	8264	AA	GG	1947056597
SNP_P4_187110_8461	NW_004519359.1	Scaffold5186	8461	CC	AA	1947056599
SNP_P4_187111_8469	NW_004519359.1	Scaffold5186	8469	TT	CC	1947056601
SNP_P4_187113_9064	NW_004519359.1	Scaffold5186	9064	GG	TT	1947056603
SNP_P4_187114_9113	NW_004519359.1	Scaffold5186	9113	AA	CC	1947056605
SNP_P4_187115_9146	NW_004519359.1	Scaffold5186	9146	AA	GG	1947056607
SNP_P4_187116_9706	NW_004519359.1	Scaffold5186	9706	AA	GG	1947056609
SNP_P4_187117_10045	NW_004519359.1	Scaffold5186	10045	AA	CC	1947056611
SNP_P4_187118_10049	NW_004519359.1	Scaffold5186	10049	TT	CC	1947056613
SNP_P4_187119_10052	NW_004519359.1	Scaffold5186	10052	AA	TT	1947056615
SNP_P4_187120_10053	NW_004519359.1	Scaffold5186	10053	AA	GG	1947056617
SNP_P4_187121_10263	NW_004519359.1	Scaffold5186	10263	TT	CC	1947056619
SNP_P4_187122_10577	NW_004519359.1	Scaffold5186	10577	TT	GG	1947056621
SNP_P4_187123_10782	NW_004519359.1	Scaffold5186	10782	TT	CC	1947056623

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_187124_11267	NW_004519359.1	Scaffold5186	11267	TT	AA	1947056625
SNP_P4_187125_11545	NW_004519359.1	Scaffold5186	11545	GG	AA	1947056627
SNP_P4_187126_11695	NW_004519359.1	Scaffold5186	11695	CC	TT	1947056629
SNP_P4_187127_11746	NW_004519359.1	Scaffold5186	11746	TT	CC	1947056631
SNP_P4_187128_11931	NW_004519359.1	Scaffold5186	11931	CC	TT	1947056633
SNP_P4_187129_12966	NW_004519359.1	Scaffold5186	12966	TT	AA	1947056635
SNP_P4_187130_13008	NW_004519359.1	Scaffold5186	13008	TT	GG	1947056637
SNP_P4_187131_13266	NW_004519359.1	Scaffold5186	13266	AA	TT	1947056639
SNP_P4_187132_13533	NW_004519359.1	Scaffold5186	13533	TT	CC	1947056641
SNP_P4_187134_13741	NW_004519359.1	Scaffold5186	13741	TT	CC	1947056643
SNP_P4_187135_13755	NW_004519359.1	Scaffold5186	13755	TT	CC	1947056645
SNP_P4_187136_13933	NW_004519359.1	Scaffold5186	13933	GG	AA	1947056647
SNP_P4_187137_14072	NW_004519359.1	Scaffold5186	14072	TT	CC	1947056649
SNP_P4_187138_14114	NW_004519359.1	Scaffold5186	14114	AA	TT	1947056651
SNP_P4_187139_14449	NW_004519359.1	Scaffold5186	14449	AA	GG	1947056653
SNP_P4_187140_14494	NW_004519359.1	Scaffold5186	14494	TT	CC	1947056655
SNP_P4_187141_14796	NW_004519359.1	Scaffold5186	14796	TT	CC	1947056657
SNP_P4_187142_14932	NW_004519359.1	Scaffold5186	14932	TT	CC	1947056659
SNP_P4_187143_15096	NW_004519359.1	Scaffold5186	15096	GG	AA	1947056661
SNP_P4_187144_15165	NW_004519359.1	Scaffold5186	15165	GG	TT	1947056663
SNP_P4_187145_15295	NW_004519359.1	Scaffold5186	15295	GG	CC	1947056665
SNP_P4_187146_15449	NW_004519359.1	Scaffold5186	15449	CC	TT	1947056667
SNP_P4_187147_15492	NW_004519359.1	Scaffold5186	15492	TT	GG	1947056669
SNP_P4_187148_15573	NW_004519359.1	Scaffold5186	15573	CC	TT	1947056671
SNP_P4_187149_15678	NW_004519359.1	Scaffold5186	15678	AA	CC	1947056673
SNP_P4_187150_15817	NW_004519359.1	Scaffold5186	15817	TT	CC	1947056675
SNP_P4_187151_15842	NW_004519359.1	Scaffold5186	15842	CC	TT	1947056677
SNP_P4_187152_15952	NW_004519359.1	Scaffold5186	15952	CC	GG	1947056679
SNP_P4_187153_16040	NW_004519359.1	Scaffold5186	16040	CC	GG	1947056681
SNP_P4_187154_16108	NW_004519359.1	Scaffold5186	16108	CC	TT	1947056683
SNP_P4_187155_16226	NW_004519359.1	Scaffold5186	16226	CC	GG	1947056685
SNP_P4_187156_16236	NW_004519359.1	Scaffold5186	16236	CC	AA	1947056687
SNP_P4_187157_16634	NW_004519359.1	Scaffold5186	16634	AA	TT	1947056689
SNP_P4_187158_16884	NW_004519359.1	Scaffold5186	16884	TT	CC	1947056691
SNP_P4_187159_16956	NW_004519359.1	Scaffold5186	16956	AA	GG	1947056693
SNP_P4_187160_16969	NW_004519359.1	Scaffold5186	16969	TT	CC	1947056695
SNP_P4_187161_17036	NW_004519359.1	Scaffold5186	17036	GG	CC	1947056697
SNP_P4_187162_17122	NW_004519359.1	Scaffold5186	17122	TT	CC	1947056699
SNP_P4_187163_19288	NW_004519359.1	Scaffold5186	19288	TT	CC	1947056701
SNP_P4_187164_19983	NW_004519359.1	Scaffold5186	19983	GG	AA	1947056703
SNP_P4_187165_20213	NW_004519359.1	Scaffold5186	20213	TT	AA	1947056705
SNP_P4_187166_20312	NW_004519359.1	Scaffold5186	20312	GG	AA	1947056707

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_187167_20338	NW_004519359.1	Scaffold5186	20338	AA	GG	1947056709
SNP_P4_187168_20601	NW_004519359.1	Scaffold5186	20601	AA	GG	1947056711
SNP_P4_187169_20646	NW_004519359.1	Scaffold5186	20646	GG	CC	1947056713
SNP_P4_187170_20752	NW_004519359.1	Scaffold5186	20752	CC	TT	1947056715
SNP_P4_187171_20804	NW_004519359.1	Scaffold5186	20804	AA	TT	1947056717
SNP_P4_187172_20807	NW_004519359.1	Scaffold5186	20807	AA	TT	1947056719
SNP_P4_187173_21198	NW_004519359.1	Scaffold5186	21198	TT	GG	1947056721
SNP_P4_187174_21300	NW_004519359.1	Scaffold5186	21300	AA	CC	1947056723
SNP_P4_187175_23550	NW_004519359.1	Scaffold5186	23550	CC	AA	1947056725
SNP_P4_187176_23868	NW_004519359.1	Scaffold5186	23868	TT	CC	1947056727
SNP_P4_187177_26816	NW_004519359.1	Scaffold5186	26816	AA	GG	1947056730
SNP_P4_187178_26833	NW_004519359.1	Scaffold5186	26833	CC	AA	1947056732
SNP_P4_187179_26868	NW_004519359.1	Scaffold5186	26868	AA	GG	1947056734
SNP_P4_187180_26870	NW_004519359.1	Scaffold5186	26870	GG	TT	1947056736
SNP_P4_187181_27014	NW_004519359.1	Scaffold5186	27014	AA	GG	1947056738
SNP_P4_187182_27055	NW_004519359.1	Scaffold5186	27055	CC	TT	1947056740
SNP_P4_187184_5234	NW_004519364.1	Scaffold5195	5234	AA	GG	1947056742
SNP_P4_187185_5274	NW_004519364.1	Scaffold5195	5274	TT	CC	1947056744
SNP_P4_187186_5332	NW_004519364.1	Scaffold5195	5332	TT	CC	1947056746
SNP_P4_187187_5333	NW_004519364.1	Scaffold5195	5333	TT	AA	1947056748
SNP_P4_187188_6370	NW_004519364.1	Scaffold5195	6370	CC	AA	1947056750
SNP_P4_187189_6374	NW_004519364.1	Scaffold5195	6374	CC	GG	1947056752
SNP_P4_187191_3981	NW_004519365.1	Scaffold5198	3981	CC	AA	1947056754
SNP_P4_187192_3991	NW_004519365.1	Scaffold5198	3991	AA	CC	1947056756
SNP_P4_187193_4024	NW_004519365.1	Scaffold5198	4024	CC	AA	1947056758
SNP_P4_187194_4038	NW_004519365.1	Scaffold5198	4038	CC	TT	1947056760
SNP_P4_187195_4039	NW_004519365.1	Scaffold5198	4039	GG	AA	1947056762
SNP_P4_187196_4043	NW_004519365.1	Scaffold5198	4043	CC	GG	1947056764
SNP_P4_187197_4044	NW_004519365.1	Scaffold5198	4044	AA	TT	1947056766
SNP_P4_187198_4049	NW_004519365.1	Scaffold5198	4049	CC	TT	1947056768
SNP_P4_187199_4068	NW_004519365.1	Scaffold5198	4068	GG	AA	1947056770
SNP_P4_187200_4251	NW_004519365.1	Scaffold5198	4251	CC	TT	1947056772
SNP_P4_187202_385	NW_004519366.1	Scaffold5199	385	TT	CC	1947056774
SNP_P4_187203_475	NW_004519366.1	Scaffold5199	475	AA	CC	1947056776
SNP_P4_187204_829	NW_004519366.1	Scaffold5199	829	AA	TT	1947056778
SNP_P4_187205_865	NW_004519366.1	Scaffold5199	865	CC	GG	1947056780
SNP_P4_187206_1065	NW_004519366.1	Scaffold5199	1065	CC	GG	1947056782
SNP_P4_187207_1094	NW_004519366.1	Scaffold5199	1094	AA	GG	1947056784
SNP_P4_187208_312	NW_004519367.1	Scaffold5200	312	AA	GG	1947056786
SNP_P4_187209_6356	NW_004519367.1	Scaffold5200	6356	GG	TT	1947056788
SNP_P4_187210_2081	NW_004519368.1	Scaffold5201	2081	CC	GG	1947056790
SNP_P4_187211_106	NW_004519369.1	Scaffold5202	106	AA	GG	1947056792

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_187212_189	NW_004519369.1	Scaffold5202	189	CC	AA	1947056794
SNP_P4_187213_209	NW_004519369.1	Scaffold5202	209	TT	CC	1947056796
SNP_P4_187214_210	NW_004519369.1	Scaffold5202	210	AA	TT	1947056798
SNP_P4_187215_375	NW_004519369.1	Scaffold5202	375	GG	TT	1947056800
SNP_P4_187216_491	NW_004519370.1	Scaffold5204	491	AA	GG	1947056802
SNP_P4_187217_573	NW_004519370.1	Scaffold5204	573	CC	TT	1947056804
SNP_P4_187218_616	NW_004519370.1	Scaffold5204	616	GG	CC	1947056806
SNP_P4_187219_944	NW_004519370.1	Scaffold5204	944	CC	TT	1947056808
SNP_P4_187220_987	NW_004519370.1	Scaffold5204	987	TT	AA	1947056810
SNP_P4_187221_1000	NW_004519370.1	Scaffold5204	1000	TT	AA	1947056812
SNP_P4_187222_1039	NW_004519370.1	Scaffold5204	1039	CC	AA	1947056814
SNP_P4_187223_1048	NW_004519370.1	Scaffold5204	1048	AA	CC	1947056816
SNP_P4_187224_1115	NW_004519370.1	Scaffold5204	1115	AA	TT	1947056818
SNP_P4_187225_1189	NW_004519370.1	Scaffold5204	1189	CC	AA	1947056820
SNP_P4_187226_1270	NW_004519370.1	Scaffold5204	1270	AA	GG	1947056822
SNP_P4_187227_1317	NW_004519370.1	Scaffold5204	1317	AA	GG	1947056824
SNP_P4_187228_161	NW_004519372.1	Scaffold5207	161	CC	TT	1947056826
SNP_P4_187229_284	NW_004519372.1	Scaffold5207	284	AA	CC	1947056828
SNP_P4_187230_578	NW_004519372.1	Scaffold5207	578	CC	GG	1947056830
SNP_P4_187231_611	NW_004519372.1	Scaffold5207	611	CC	TT	1947056832
SNP_P4_187232_621	NW_004519372.1	Scaffold5207	621	TT	GG	1947056834
SNP_P4_187233_751	NW_004519372.1	Scaffold5207	751	TT	CC	1947056836
SNP_P4_187234_948	NW_004519376.1	Scaffold5211	948	AA	TT	1947056838
SNP_P4_187235_1179	NW_004519376.1	Scaffold5211	1179	GG	TT	1947056840
SNP_P4_187236_1281	NW_004519376.1	Scaffold5211	1281	CC	TT	1947056842
SNP_P4_187237_1357	NW_004519376.1	Scaffold5211	1357	CC	AA	1947056844
SNP_P4_187238_1659	NW_004519376.1	Scaffold5211	1659	CC	TT	1947056846
SNP_P4_187239_1804	NW_004519376.1	Scaffold5211	1804	TT	CC	1947056848
SNP_P4_187240_1869	NW_004519376.1	Scaffold5211	1869	CC	TT	1947056850
SNP_P4_187241_2216	NW_004519376.1	Scaffold5211	2216	AA	GG	1947056852
SNP_P4_187242_2317	NW_004519376.1	Scaffold5211	2317	TT	CC	1947056854
SNP_P4_187243_2386	NW_004519376.1	Scaffold5211	2386	AA	GG	1947056856
SNP_P4_187244_2545	NW_004519376.1	Scaffold5211	2545	GG	AA	1947056858
SNP_P4_187246_2738	NW_004519376.1	Scaffold5211	2738	GG	TT	1947056860
SNP_P4_187247_2782	NW_004519376.1	Scaffold5211	2782	CC	AA	1947056862
SNP_P4_187248_2893	NW_004519376.1	Scaffold5211	2893	GG	AA	1947056864
SNP_P4_187249_2928	NW_004519376.1	Scaffold5211	2928	CC	GG	1947056866
SNP_P4_187250_3088	NW_004519376.1	Scaffold5211	3088	AA	GG	1947056868
SNP_P4_187251_3382	NW_004519376.1	Scaffold5211	3382	TT	CC	1947056870
SNP_P4_187252_3522	NW_004519376.1	Scaffold5211	3522	GG	AA	1947056872
SNP_P4_187253_3657	NW_004519376.1	Scaffold5211	3657	CC	TT	1947056874
SNP_P4_187255_3789	NW_004519376.1	Scaffold5211	3789	AA	CC	1947056876

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_187257_3850	NW_004519376.1	Scaffold5211	3850	CC	TT	1947056880
SNP_P4_187258_3869	NW_004519376.1	Scaffold5211	3869	AA	CC	1947056882
SNP_P4_187259_4013	NW_004519376.1	Scaffold5211	4013	GG	AA	1947056884
SNP_P4_187260_4094	NW_004519376.1	Scaffold5211	4094	GG	AA	1947056886
SNP_P4_187261_4104	NW_004519376.1	Scaffold5211	4104	TT	CC	1947056889
SNP_P4_187262_4232	NW_004519376.1	Scaffold5211	4232	CC	TT	1947056891
SNP_P4_187263_4565	NW_004519376.1	Scaffold5211	4565	AA	GG	1947056893
SNP_P4_187264_4900	NW_004519376.1	Scaffold5211	4900	GG	AA	1947056895
SNP_P4_187265_4971	NW_004519376.1	Scaffold5211	4971	AA	GG	1947056897
SNP_P4_187266_5329	NW_004519376.1	Scaffold5211	5329	AA	GG	1947056899
SNP_P4_187267_5474	NW_004519376.1	Scaffold5211	5474	TT	CC	1947056901
SNP_P4_187269_5720	NW_004519376.1	Scaffold5211	5720	TT	GG	1947056903
SNP_P4_187271_477	NW_004519381.1	Scaffold5222	477	GG	AA	1947056905
SNP_P4_187272_503	NW_004519382.1	Scaffold5223	503	CC	TT	1947056907
SNP_P4_187273_2876	NW_004519384.1	Scaffold5225	2876	TT	CC	1947056909
SNP_P4_187274_3665	NW_004519385.1	Scaffold5226	3665	GG	AA	1947056911
SNP_P4_187275_4441	NW_004519385.1	Scaffold5226	4441	TT	AA	1947056913
SNP_P4_187276_119	NW_004519390.1	Scaffold5234	119	TT	CC	1947056915
SNP_P4_187277_444	NW_004519390.1	Scaffold5234	444	GG	TT	1947056917
SNP_P4_187279_461	NW_004519390.1	Scaffold5234	461	GG	AA	1947056919
SNP_P4_187281_755	NW_004519390.1	Scaffold5234	755	GG	TT	1947056921
SNP_P4_187282_800	NW_004519390.1	Scaffold5234	800	GG	AA	1947056923
SNP_P4_187283_814	NW_004519390.1	Scaffold5234	814	AA	GG	1947056925
SNP_P4_187284_821	NW_004519390.1	Scaffold5234	821	AA	CC	1947056927
SNP_P4_187285_939	NW_004519390.1	Scaffold5234	939	TT	GG	1947056929
SNP_P4_187288_6365	NW_004519391.1	Scaffold5235	6365	TT	CC	1947056931
SNP_P4_187289_740	NW_004519393.1	Scaffold5238	740	GG	TT	1947056933
SNP_P4_187290_1448	NW_004519393.1	Scaffold5238	1448	CC	TT	1947056935
SNP_P4_187291_1699	NW_004519393.1	Scaffold5238	1699	GG	TT	1947056937
SNP_P4_187292_1700	NW_004519393.1	Scaffold5238	1700	AA	GG	1947056939
SNP_P4_187293_1759	NW_004519393.1	Scaffold5238	1759	CC	TT	1947056941
SNP_P4_187294_2103	NW_004519393.1	Scaffold5238	2103	AA	TT	1947056943
SNP_P4_187295_2121	NW_004519393.1	Scaffold5238	2121	TT	CC	1947056945
SNP_P4_187296_2153	NW_004519393.1	Scaffold5238	2153	GG	AA	1947056947
SNP_P4_187297_2164	NW_004519393.1	Scaffold5238	2164	TT	CC	1947056949
SNP_P4_187298_4164	NW_004519394.1	Scaffold5239	4164	AA	GG	1947056951
SNP_P4_187299_6352	NW_004519394.1	Scaffold5239	6352	TT	CC	1947056953
SNP_P4_187301_1075	NW_004519397.1	Scaffold5249	1075	GG	AA	1947056955
SNP_P4_187302_2234	NW_004519397.1	Scaffold5249	2234	GG	CC	1947056957
SNP_P4_187303_141	NW_004519398.1	Scaffold5251	141	GG	AA	1947056959
SNP_P4_187304_311	NW_004519398.1	Scaffold5251	311	CC	TT	1947056961

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_187305_454	NW_004519398.1	Scaffold5251	454	AA	GG	1947056963
SNP_P4_187306_489	NW_004519398.1	Scaffold5251	489	CC	TT	1947056965
SNP_P4_187307_620	NW_004519398.1	Scaffold5251	620	CC	TT	1947056967
SNP_P4_187308_665	NW_004519398.1	Scaffold5251	665	TT	CC	1947056969
SNP_P4_187309_681	NW_004519398.1	Scaffold5251	681	CC	AA	1947056971
SNP_P4_187310_804	NW_004519398.1	Scaffold5251	804	CC	TT	1947056973
SNP_P4_187311_875	NW_004519398.1	Scaffold5251	875	GG	AA	1947056975
SNP_P4_187312_1019	NW_004519398.1	Scaffold5251	1019	CC	TT	1947056977
SNP_P4_187313_1053	NW_004519398.1	Scaffold5251	1053	TT	GG	1947056979
SNP_P4_187314_1054	NW_004519398.1	Scaffold5251	1054	GG	AA	1947056981
SNP_P4_187316_1207	NW_004519398.1	Scaffold5251	1207	CC	GG	1947056983
SNP_P4_187318_2102	NW_004519398.1	Scaffold5251	2102	CC	TT	1947056985
SNP_P4_187319_2185	NW_004519398.1	Scaffold5251	2185	AA	GG	1947056987
SNP_P4_187320_2220	NW_004519398.1	Scaffold5251	2220	GG	CC	1947056989
SNP_P4_187321_2281	NW_004519398.1	Scaffold5251	2281	TT	GG	1947056991
SNP_P4_187322_1145	NW_004519400.1	Scaffold5253	1145	CC	GG	1947056993
SNP_P4_187323_1146	NW_004519400.1	Scaffold5253	1146	AA	TT	1947056995
SNP_P4_187324_1502	NW_004519400.1	Scaffold5253	1502	CC	AA	1947056997
SNP_P4_187325_395	NW_004519403.1	Scaffold5259	395	AA	TT	1947056999
SNP_P4_187326_1160	NW_004519403.1	Scaffold5259	1160	CC	TT	1947057001
SNP_P4_187327_1724	NW_004519403.1	Scaffold5259	1724	GG	TT	1947057003
SNP_P4_187328_179	NW_004519404.1	Scaffold5261	179	AA	CC	1947057005
SNP_P4_187329_711	NW_004519404.1	Scaffold5261	711	TT	AA	1947057007
SNP_P4_187330_301	NW_004519405.1	Scaffold5262	301	AA	GG	1947057009
SNP_P4_187331_308	NW_004519405.1	Scaffold5262	308	CC	TT	1947057011
SNP_P4_187332_457	NW_004519405.1	Scaffold5262	457	GG	AA	1947057013
SNP_P4_187333_544	NW_004519405.1	Scaffold5262	544	GG	AA	1947057015
SNP_P4_187334_656	NW_004519405.1	Scaffold5262	656	TT	AA	1947057017
SNP_P4_187335_918	NW_004519405.1	Scaffold5262	918	TT	CC	1947057019
SNP_P4_187336_1089	NW_004519405.1	Scaffold5262	1089	AA	GG	1947057021
SNP_P4_187337_1137	NW_004519405.1	Scaffold5262	1137	TT	GG	1947057023
SNP_P4_187338_1152	NW_004519405.1	Scaffold5262	1152	TT	CC	1947057025
SNP_P4_187339_1274	NW_004519405.1	Scaffold5262	1274	AA	GG	1947057027
SNP_P4_187340_1300	NW_004519405.1	Scaffold5262	1300	GG	AA	1947057029
SNP_P4_187341_1326	NW_004519405.1	Scaffold5262	1326	AA	CC	1947057031
SNP_P4_187342_1334	NW_004519405.1	Scaffold5262	1334	CC	TT	1947057033
SNP_P4_187343_1435	NW_004519405.1	Scaffold5262	1435	GG	AA	1947057035
SNP_P4_187344_1595	NW_004519405.1	Scaffold5262	1595	AA	GG	1947057037
SNP_P4_187345_1636	NW_004519405.1	Scaffold5262	1636	AA	GG	1947057039
SNP_P4_187346_4776	NW_004519405.1	Scaffold5262	4776	TT	AA	1947057041
SNP_P4_187347_20541	NW_004519406.1	Scaffold5263	20541	GG	AA	1947057042
SNP_P4_187348_25619	NW_004519406.1	Scaffold5263	25619	TT	CC	1947057044

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_187350_25629	NW_004519406.1	Scaffold5263	25629	CC	TT	1947057048
SNP_P4_187351_25645	NW_004519406.1	Scaffold5263	25645	AA	TT	1947057050
SNP_P4_187352_25667	NW_004519406.1	Scaffold5263	25667	CC	TT	1947057052
SNP_P4_187353_25712	NW_004519406.1	Scaffold5263	25712	AA	GG	1947057054
SNP_P4_187354_25924	NW_004519406.1	Scaffold5263	25924	AA	GG	1947057056
SNP_P4_187355_25933	NW_004519406.1	Scaffold5263	25933	AA	TT	1947057058
SNP_P4_187356_26072	NW_004519406.1	Scaffold5263	26072	AA	GG	1947057060
SNP_P4_187357_26105	NW_004519406.1	Scaffold5263	26105	AA	GG	1947057062
SNP_P4_187358_26421	NW_004519406.1	Scaffold5263	26421	AA	GG	1947057064
SNP_P4_187359_26914	NW_004519406.1	Scaffold5263	26914	CC	TT	1947057066
SNP_P4_187360_27401	NW_004519406.1	Scaffold5263	27401	AA	GG	1947057068
SNP_P4_187361_27543	NW_004519406.1	Scaffold5263	27543	AA	TT	1947057070
SNP_P4_187362_27663	NW_004519406.1	Scaffold5263	27663	CC	GG	1947057072
SNP_P4_187363_27873	NW_004519406.1	Scaffold5263	27873	AA	GG	1947057074
SNP_P4_187364_115	NW_004519408.1	Scaffold5266	115	AA	TT	1947057076
SNP_P4_187365_311	NW_004519410.1	Scaffold5269	311	TT	CC	1947057078
SNP_P4_187366_1677	NW_004519413.1	Scaffold5272	1677	TT	CC	1947057080
SNP_P4_187367_1681	NW_004519413.1	Scaffold5272	1681	GG	AA	1947057082
SNP_P4_187368_3913	NW_004519413.1	Scaffold5272	3913	TT	AA	1947057084
SNP_P4_187369_3914	NW_004519413.1	Scaffold5272	3914	TT	CC	1947057086
SNP_P4_187370_302	NW_004519416.1	Scaffold5275	302	GG	TT	1947057088
SNP_P4_187371_417	NW_004519416.1	Scaffold5275	417	AA	GG	1947057090
SNP_P4_187373_437	NW_004519416.1	Scaffold5275	437	TT	CC	1947057092
SNP_P4_187374_460	NW_004519416.1	Scaffold5275	460	CC	AA	1947057094
SNP_P4_187375_466	NW_004519416.1	Scaffold5275	466	CC	AA	1947057096
SNP_P4_187376_467	NW_004519416.1	Scaffold5275	467	AA	GG	1947057098
SNP_P4_187377_490	NW_004519416.1	Scaffold5275	490	AA	CC	1947057100
SNP_P4_187378_517	NW_004519416.1	Scaffold5275	517	CC	AA	1947057102
SNP_P4_187379_588	NW_004519416.1	Scaffold5275	588	TT	AA	1947057104
SNP_P4_187380_679	NW_004519416.1	Scaffold5275	679	AA	GG	1947057106
SNP_P4_187381_691	NW_004519416.1	Scaffold5275	691	AA	GG	1947057108
SNP_P4_187382_765	NW_004519416.1	Scaffold5275	765	GG	CC	1947057110
SNP_P4_187383_962	NW_004519416.1	Scaffold5275	962	AA	GG	1947057113
SNP_P4_187384_973	NW_004519416.1	Scaffold5275	973	TT	AA	1947057115
SNP_P4_187385_982	NW_004519416.1	Scaffold5275	982	CC	AA	1947057117
SNP_P4_187386_1022	NW_004519416.1	Scaffold5275	1022	TT	CC	1947057119
SNP_P4_187387_1068	NW_004519416.1	Scaffold5275	1068	TT	CC	1947057121
SNP_P4_187388_1108	NW_004519416.1	Scaffold5275	1108	GG	AA	1947057123
SNP_P4_187389_1126	NW_004519416.1	Scaffold5275	1126	AA	GG	1947057125
SNP_P4_187390_1142	NW_004519416.1	Scaffold5275	1142	TT	GG	1947057127
SNP_P4_187391_1182	NW_004519416.1	Scaffold5275	1182	GG	TT	1947057129

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_187393_1503	NW_004519416.1	Scaffold5275	1503	GG	AA	1947057133
SNP_P4_187394_1521	NW_004519416.1	Scaffold5275	1521	CC	TT	1947057135
SNP_P4_187396_3095	NW_004519420.1	Scaffold5279	3095	CC	GG	1947057137
SNP_P4_187398_206	NW_004519421.1	Scaffold5280	206	CC	TT	1947057139
SNP_P4_187399_367	NW_004519421.1	Scaffold5280	367	AA	GG	1947057141
SNP_P4_187400_373	NW_004519421.1	Scaffold5280	373	TT	CC	1947057143
SNP_P4_187401_775	NW_004519421.1	Scaffold5280	775	TT	AA	1947057145
SNP_P4_187402_1064	NW_004519421.1	Scaffold5280	1064	GG	AA	1947057147
SNP_P4_187403_1138	NW_004519421.1	Scaffold5280	1138	GG	AA	1947057149
SNP_P4_187404_1157	NW_004519421.1	Scaffold5280	1157	AA	CC	1947057150
SNP_P4_187405_1187	NW_004519421.1	Scaffold5280	1187	AA	GG	1947057152
SNP_P4_187406_2417	NW_004519421.1	Scaffold5280	2417	GG	TT	1947057154
SNP_P4_187407_3787	NW_004519421.1	Scaffold5280	3787	GG	AA	1947057156
SNP_P4_187408_5735	NW_004519421.1	Scaffold5280	5735	CC	AA	1947057158
SNP_P4_187409_5820	NW_004519421.1	Scaffold5280	5820	AA	GG	1947057160
SNP_P4_187410_5988	NW_004519421.1	Scaffold5280	5988	AA	GG	1947057162
SNP_P4_187411_6007	NW_004519421.1	Scaffold5280	6007	TT	CC	1947057164
SNP_P4_187412_6058	NW_004519421.1	Scaffold5280	6058	GG	AA	1947057166
SNP_P4_187413_6228	NW_004519421.1	Scaffold5280	6228	AA	GG	1947057168
SNP_P4_187414_6250	NW_004519421.1	Scaffold5280	6250	AA	GG	1947057170
SNP_P4_187415_6277	NW_004519421.1	Scaffold5280	6277	TT	AA	1947057172
SNP_P4_187416_6290	NW_004519421.1	Scaffold5280	6290	TT	AA	1947057174
SNP_P4_187417_6373	NW_004519421.1	Scaffold5280	6373	AA	GG	1947057176
SNP_P4_187418_6425	NW_004519421.1	Scaffold5280	6425	GG	CC	1947057178
SNP_P4_187419_6473	NW_004519421.1	Scaffold5280	6473	CC	TT	1947057180
SNP_P4_187420_6602	NW_004519421.1	Scaffold5280	6602	TT	CC	1947057182
SNP_P4_187421_6628	NW_004519421.1	Scaffold5280	6628	TT	CC	1947057184
SNP_P4_187422_6664	NW_004519421.1	Scaffold5280	6664	GG	AA	1947057186
SNP_P4_187423_6677	NW_004519421.1	Scaffold5280	6677	CC	TT	1947057188
SNP_P4_187424_6679	NW_004519421.1	Scaffold5280	6679	CC	GG	1947057190
SNP_P4_187425_6704	NW_004519421.1	Scaffold5280	6704	AA	TT	1947057191
SNP_P4_187426_6713	NW_004519421.1	Scaffold5280	6713	CC	TT	1947057193
SNP_P4_187427_6746	NW_004519421.1	Scaffold5280	6746	AA	GG	1947057195
SNP_P4_187428_6857	NW_004519421.1	Scaffold5280	6857	CC	GG	1947057197
SNP_P4_187429_7015	NW_004519421.1	Scaffold5280	7015	TT	CC	1947057199
SNP_P4_187430_7032	NW_004519421.1	Scaffold5280	7032	AA	CC	1947057201
SNP_P4_187431_101	NW_004519424.1	Scaffold5285	101	TT	AA	1947057203
SNP_P4_187432_208	NW_004519424.1	Scaffold5285	208	CC	TT	1947057205
SNP_P4_187433_4788	NW_004519428.1	Scaffold5291	4788	GG	AA	1947057207
SNP_P4_187434_5174	NW_004519428.1	Scaffold5291	5174	TT	GG	1947057209
SNP_P4_187436_6319	NW_004519433.1	Scaffold5297	6319	AA	GG	1947057211

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_187438_6322	NW_004519433.1	Scaffold5297	6322	CC	TT	1947057215
SNP_P4_187439_6378	NW_004519433.1	Scaffold5297	6378	AA	CC	1947057217
SNP_P4_187440_6388	NW_004519433.1	Scaffold5297	6388	GG	AA	1947057219
SNP_P4_187441_6738	NW_004519433.1	Scaffold5297	6738	CC	GG	1947057221
SNP_P4_187442_6744	NW_004519433.1	Scaffold5297	6744	CC	TT	1947057223
SNP_P4_187443_7530	NW_004519433.1	Scaffold5297	7530	TT	CC	1947057225
SNP_P4_187444_7572	NW_004519433.1	Scaffold5297	7572	GG	AA	1947057227
SNP_P4_187445_7613	NW_004519433.1	Scaffold5297	7613	CC	TT	1947057229
SNP_P4_187446_7653	NW_004519433.1	Scaffold5297	7653	AA	CC	1947057231
SNP_P4_187447_7720	NW_004519433.1	Scaffold5297	7720	TT	GG	1947057233
SNP_P4_187448_7723	NW_004519433.1	Scaffold5297	7723	AA	TT	1947057235
SNP_P4_187449_7864	NW_004519433.1	Scaffold5297	7864	CC	AA	1947057237
SNP_P4_187450_7968	NW_004519433.1	Scaffold5297	7968	AA	GG	1947057239
SNP_P4_187452_71	NW_004519436.1	Scaffold5302	71	TT	GG	1947057241
SNP_P4_187453_74	NW_004519436.1	Scaffold5302	74	AA	GG	1947057243
SNP_P4_187454_10901	NW_004519440.1	Scaffold5306	10901	CC	TT	1947057245
SNP_P4_187455_11044	NW_004519440.1	Scaffold5306	11044	TT	CC	1947057247
SNP_P4_187456_11047	NW_004519440.1	Scaffold5306	11047	AA	CC	1947057249
SNP_P4_187457_11228	NW_004519440.1	Scaffold5306	11228	CC	AA	1947057251
SNP_P4_187458_11374	NW_004519440.1	Scaffold5306	11374	AA	GG	1947057253
SNP_P4_187459_14966	NW_004519440.1	Scaffold5306	14966	GG	AA	1947057255
SNP_P4_187460_15002	NW_004519440.1	Scaffold5306	15002	GG	AA	1947057257
SNP_P4_187461_15101	NW_004519440.1	Scaffold5306	15101	GG	AA	1947057258
SNP_P4_187462_15106	NW_004519440.1	Scaffold5306	15106	TT	CC	1947057260
SNP_P4_187463_15498	NW_004519440.1	Scaffold5306	15498	GG	AA	1947057262
SNP_P4_187464_15501	NW_004519440.1	Scaffold5306	15501	TT	AA	1947057264
SNP_P4_187465_1610	NW_004519441.1	Scaffold5307	1610	TT	CC	1947057266
SNP_P4_187466_1662	NW_004519441.1	Scaffold5307	1662	TT	CC	1947057268
SNP_P4_187467_1676	NW_004519441.1	Scaffold5307	1676	AA	TT	1947057270
SNP_P4_187468_1728	NW_004519441.1	Scaffold5307	1728	TT	CC	1947057272
SNP_P4_187469_1799	NW_004519441.1	Scaffold5307	1799	CC	TT	1947057274
SNP_P4_187470_1844	NW_004519441.1	Scaffold5307	1844	GG	AA	1947057275
SNP_P4_187471_1974	NW_004519441.1	Scaffold5307	1974	GG	TT	1947057277
SNP_P4_187472_2002	NW_004519441.1	Scaffold5307	2002	AA	GG	1947057279
SNP_P4_187473_2062	NW_004519441.1	Scaffold5307	2062	AA	GG	1947057281
SNP_P4_187474_2304	NW_004519441.1	Scaffold5307	2304	TT	CC	1947057283
SNP_P4_187475_2618	NW_004519441.1	Scaffold5307	2618	CC	GG	1947057285
SNP_P4_187476_3839	NW_004519441.1	Scaffold5307	3839	CC	TT	1947057287
SNP_P4_187477_3886	NW_004519441.1	Scaffold5307	3886	AA	GG	1947057289
SNP_P4_187478_3890	NW_004519441.1	Scaffold5307	3890	AA	GG	1947057291
SNP_P4_187479_3931	NW_004519441.1	Scaffold5307	3931	GG	CC	1947057293

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_187481_3976	NW_004519441.1	Scaffold5307	3976	AA	GG	1947057297
SNP_P4_187482_3996	NW_004519441.1	Scaffold5307	3996	TT	GG	1947057299
SNP_P4_187483_4002	NW_004519441.1	Scaffold5307	4002	AA	TT	1947057301
SNP_P4_187484_4459	NW_004519441.1	Scaffold5307	4459	AA	GG	1947057303
SNP_P4_187485_4949	NW_004519441.1	Scaffold5307	4949	AA	CC	1947057305
SNP_P4_187486_4966	NW_004519441.1	Scaffold5307	4966	AA	GG	1947057307
SNP_P4_187487_4968	NW_004519441.1	Scaffold5307	4968	TT	AA	1947057309
SNP_P4_187488_5241	NW_004519441.1	Scaffold5307	5241	TT	CC	1947057311
SNP_P4_187489_5260	NW_004519441.1	Scaffold5307	5260	CC	TT	1947057313
SNP_P4_187490_5302	NW_004519441.1	Scaffold5307	5302	AA	GG	1947057315
SNP_P4_187491_5321	NW_004519441.1	Scaffold5307	5321	CC	TT	1947057317
SNP_P4_187492_5452	NW_004519441.1	Scaffold5307	5452	TT	GG	1947057319
SNP_P4_187493_5850	NW_004519441.1	Scaffold5307	5850	AA	GG	1947057321
SNP_P4_187494_5985	NW_004519441.1	Scaffold5307	5985	AA	CC	1947057323
SNP_P4_187495_6233	NW_004519441.1	Scaffold5307	6233	TT	CC	1947057325
SNP_P4_187496_6550	NW_004519441.1	Scaffold5307	6550	GG	AA	1947057327
SNP_P4_187497_6575	NW_004519441.1	Scaffold5307	6575	AA	GG	1947057329
SNP_P4_187498_7078	NW_004519441.1	Scaffold5307	7078	GG	AA	1947057331
SNP_P4_187499_283	NW_004519442.1	Scaffold5309	283	CC	TT	1947057333
SNP_P4_187500_713	NW_004519442.1	Scaffold5309	713	TT	GG	1947057335
SNP_P4_187501_735	NW_004519442.1	Scaffold5309	735	AA	CC	1947057337
SNP_P4_187502_848	NW_004519442.1	Scaffold5309	848	AA	TT	1947057339
SNP_P4_187503_1026	NW_004519442.1	Scaffold5309	1026	AA	GG	1947057341
SNP_P4_187504_1046	NW_004519442.1	Scaffold5309	1046	GG	AA	1947057343
SNP_P4_187505_1055	NW_004519442.1	Scaffold5309	1055	GG	CC	1947057345
SNP_P4_187506_451	NW_004519444.1	Scaffold5311	451	AA	TT	1947057346
SNP_P4_187507_651	NW_004519444.1	Scaffold5311	651	TT	GG	1947057347
SNP_P4_187508_700	NW_004519444.1	Scaffold5311	700	GG	AA	1947057348
SNP_P4_187509_799	NW_004519445.1	Scaffold5312	799	TT	GG	1947057349
SNP_P4_187510_4645	NW_004519445.1	Scaffold5312	4645	TT	CC	1947057350
SNP_P4_187511_4799	NW_004519445.1	Scaffold5312	4799	TT	CC	1947057351
SNP_P4_187512_343	NW_004519446.1	Scaffold5313	343	AA	TT	1947057352
SNP_P4_187513_396	NW_004519446.1	Scaffold5313	396	AA	GG	1947057353
SNP_P4_187514_637	NW_004519446.1	Scaffold5313	637	AA	GG	1947057354
SNP_P4_187515_644	NW_004519446.1	Scaffold5313	644	TT	AA	1947057355
SNP_P4_187516_20072	NW_004519448.1	Scaffold5321	20072	GG	AA	1947057356
SNP_P4_187517_23059	NW_004519448.1	Scaffold5321	23059	GG	TT	1947057357
SNP_P4_187518_30177	NW_004519448.1	Scaffold5321	30177	GG	AA	1947057358
SNP_P4_187519_30313	NW_004519448.1	Scaffold5321	30313	TT	CC	1947057359
SNP_P4_187520_43569	NW_004519448.1	Scaffold5321	43569	GG	AA	1947057360
SNP_P4_187521_425	NW_004519452.1	Scaffold5326	425	AA	GG	1947057361

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_187523_500	NW_004519452.1	Scaffold5326	500	CC	TT	1947057364
SNP_P4_187524_16741	NW_004519454.1	Scaffold5328	16741	AA	GG	1947057366
SNP_P4_187525_16747	NW_004519454.1	Scaffold5328	16747	GG	AA	1947057368
SNP_P4_187526_1275	NW_004519457.1	Scaffold5333	1275	AA	GG	1947057370
SNP_P4_187527_1282	NW_004519457.1	Scaffold5333	1282	AA	GG	1947057372
SNP_P4_187528_259	NW_004519459.1	Scaffold5335	259	CC	AA	1947057374
SNP_P4_187529_663	NW_004519460.1	Scaffold5338	663	GG	TT	1947057376
SNP_P4_187530_772	NW_004519460.1	Scaffold5338	772	CC	TT	1947057378
SNP_P4_187531_839	NW_004519460.1	Scaffold5338	839	GG	TT	1947057380
SNP_P4_187532_496	NW_004519461.1	Scaffold5340	496	TT	AA	1947057382
SNP_P4_187533_985	NW_004519461.1	Scaffold5340	985	TT	CC	1947057383
SNP_P4_187535_1357	NW_004519461.1	Scaffold5340	1357	CC	TT	1947057385
SNP_P4_187536_1366	NW_004519461.1	Scaffold5340	1366	CC	TT	1947057387
SNP_P4_187537_1384	NW_004519461.1	Scaffold5340	1384	AA	GG	1947057389
SNP_P4_187538_1414	NW_004519461.1	Scaffold5340	1414	TT	CC	1947057391
SNP_P4_187539_1420	NW_004519461.1	Scaffold5340	1420	GG	AA	1947057393
SNP_P4_187540_1424	NW_004519461.1	Scaffold5340	1424	GG	CC	1947057395
SNP_P4_187541_1438	NW_004519461.1	Scaffold5340	1438	AA	GG	1947057397
SNP_P4_187542_1444	NW_004519461.1	Scaffold5340	1444	TT	CC	1947057399
SNP_P4_187543_1448	NW_004519461.1	Scaffold5340	1448	CC	TT	1947057401
SNP_P4_187544_2589	NW_004519469.1	Scaffold5358	2589	GG	CC	1947057403
SNP_P4_187545_15283	NW_004519469.1	Scaffold5358	15283	TT	AA	1947057405
SNP_P4_187546_64	NW_004519470.1	Scaffold5360	64	CC	GG	1947057407
SNP_P4_187547_90	NW_004519470.1	Scaffold5360	90	TT	GG	1947057409
SNP_P4_187548_272	NW_004519470.1	Scaffold5360	272	TT	GG	1947057411
SNP_P4_187549_280	NW_004519470.1	Scaffold5360	280	CC	AA	1947057413
SNP_P4_187550_296	NW_004519470.1	Scaffold5360	296	AA	CC	1947057416
SNP_P4_187552_480	NW_004519470.1	Scaffold5360	480	CC	GG	1947057418
SNP_P4_187553_676	NW_004519470.1	Scaffold5360	676	CC	AA	1947057420
SNP_P4_187554_739	NW_004519470.1	Scaffold5360	739	CC	TT	1947057422
SNP_P4_187555_22088	NW_004519478.1	Scaffold5374	22088	TT	CC	1947057424
SNP_P4_187556_23285	NW_004519478.1	Scaffold5374	23285	CC	TT	1947057426
SNP_P4_187557_105	NW_004519479.1	Scaffold5375	105	GG	AA	1947057428
SNP_P4_187558_122	NW_004519479.1	Scaffold5375	122	AA	TT	1947057430
SNP_P4_187559_6097	NW_004519481.1	Scaffold5377	6097	GG	TT	1947057431
SNP_P4_187560_6181	NW_004519481.1	Scaffold5377	6181	GG	AA	1947057433
SNP_P4_187561_6193	NW_004519481.1	Scaffold5377	6193	AA	TT	1947057435
SNP_P4_187562_468	NW_004519485.1	Scaffold5384	468	TT	CC	1947057437
SNP_P4_187563_1489	NW_004519485.1	Scaffold5384	1489	CC	TT	1947057439
SNP_P4_187564_1738	NW_004519485.1	Scaffold5384	1738	CC	TT	1947057441
SNP_P4_187565_3288	NW_004519485.1	Scaffold5384	3288	CC	AA	1947057443

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_187566_3563	NW_004519485.1	Scaffold5384	3563	TT	CC	1947057445
SNP_P4_187567_3593	NW_004519485.1	Scaffold5384	3593	CC	TT	1947057447
SNP_P4_187568_4009	NW_004519485.1	Scaffold5384	4009	CC	TT	1947057448
SNP_P4_187570_64	NW_004519486.1	Scaffold5385	64	AA	TT	1947057449
SNP_P4_187571_72	NW_004519486.1	Scaffold5385	72	TT	CC	1947057450
SNP_P4_187572_2248	NW_004519486.1	Scaffold5385	2248	TT	AA	1947057452
SNP_P4_187573_2278	NW_004519486.1	Scaffold5385	2278	AA	GG	1947057454
SNP_P4_187574_832	NW_004519496.1	Scaffold5404	832	AA	CC	1947057456
SNP_P4_187575_943	NW_004519496.1	Scaffold5404	943	GG	AA	1947057461
SNP_P4_187576_954	NW_004519499.1	Scaffold5409	954	TT	AA	1947057463
SNP_P4_187577_956	NW_004519499.1	Scaffold5409	956	TT	AA	1947057465
SNP_P4_187579_399	NW_004519500.1	Scaffold5412	399	TT	AA	1947057467
SNP_P4_187580_405	NW_004519500.1	Scaffold5412	405	AA	GG	1947057469
SNP_P4_187581_1510	NW_004519500.1	Scaffold5412	1510	TT	AA	1947057471
SNP_P4_187582_1591	NW_004519500.1	Scaffold5412	1591	AA	TT	1947057473
SNP_P4_187583_9255	NW_004519501.1	Scaffold5413	9255	AA	TT	1947057475
SNP_P4_187584_10544	NW_004519501.1	Scaffold5413	10544	CC	TT	1947057477
SNP_P4_187585_10563	NW_004519501.1	Scaffold5413	10563	CC	TT	1947057479
SNP_P4_187586_10592	NW_004519501.1	Scaffold5413	10592	GG	AA	1947057481
SNP_P4_187587_661	NW_004519503.1	Scaffold5416	661	CC	TT	1947057483
SNP_P4_187588_688	NW_004519503.1	Scaffold5416	688	TT	AA	1947057485
SNP_P4_187589_706	NW_004519503.1	Scaffold5416	706	CC	AA	1947057487
SNP_P4_187590_710	NW_004519503.1	Scaffold5416	710	AA	CC	1947057489
SNP_P4_187591_964	NW_004519504.1	Scaffold5418	964	CC	GG	1947057491
SNP_P4_187592_1399	NW_004519504.1	Scaffold5418	1399	AA	TT	1947057493
SNP_P4_187593_1764	NW_004519504.1	Scaffold5418	1764	TT	CC	1947057495
SNP_P4_187594_1785	NW_004519504.1	Scaffold5418	1785	AA	GG	1947057498
SNP_P4_187595_1813	NW_004519504.1	Scaffold5418	1813	AA	CC	1947057500
SNP_P4_187596_1820	NW_004519504.1	Scaffold5418	1820	TT	GG	1947057502
SNP_P4_187597_59	NW_004519505.1	Scaffold5420	59	AA	TT	1947057504
SNP_P4_187598_241	NW_004519505.1	Scaffold5420	241	AA	TT	1947057506
SNP_P4_187599_285	NW_004519505.1	Scaffold5420	285	GG	AA	1947057508
SNP_P4_187600_347	NW_004519505.1	Scaffold5420	347	AA	TT	1947057510
SNP_P4_187601_400	NW_004519505.1	Scaffold5420	400	TT	AA	1947057512
SNP_P4_187602_490	NW_004519505.1	Scaffold5420	490	AA	TT	1947057514
SNP_P4_187603_608	NW_004519505.1	Scaffold5420	608	AA	TT	1947057516
SNP_P4_187604_660	NW_004519505.1	Scaffold5420	660	TT	AA	1947057518
SNP_P4_187606_705	NW_004519505.1	Scaffold5420	705	AA	GG	1947057520
SNP_P4_187607_867	NW_004519505.1	Scaffold5420	867	TT	CC	1947057522
SNP_P4_187608_918	NW_004519505.1	Scaffold5420	918	AA	GG	1947057524
SNP_P4_187609_960	NW_004519505.1	Scaffold5420	960	GG	TT	1947057526
SNP_P4_187610_1013	NW_004519505.1	Scaffold5420	1013	TT	AA	1947057528

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_187611_1332	NW_004519505.1	Scaffold5420	1332	TT	GG	1947057530
SNP_P4_187612_1345	NW_004519505.1	Scaffold5420	1345	TT	CC	1947057532
SNP_P4_187613_63	NW_004519506.1	Scaffold5421	63	AA	GG	1947057534
SNP_P4_187614_97	NW_004519506.1	Scaffold5421	97	TT	AA	1947057536
SNP_P4_187615_252	NW_004519511.1	Scaffold5434	252	TT	CC	1947057538
SNP_P4_187616_288	NW_004519511.1	Scaffold5434	288	AA	CC	1947057540
SNP_P4_187617_295	NW_004519511.1	Scaffold5434	295	CC	TT	1947057542
SNP_P4_187618_546	NW_004519511.1	Scaffold5434	546	GG	TT	1947057544
SNP_P4_187619_570	NW_004519511.1	Scaffold5434	570	TT	GG	1947057546
SNP_P4_187620_635	NW_004519511.1	Scaffold5434	635	AA	GG	1947057548
SNP_P4_187621_797	NW_004519511.1	Scaffold5434	797	TT	CC	1947057550
SNP_P4_187622_625	NW_004519520.1	Scaffold5449	625	AA	TT	1947057552
SNP_P4_187623_626	NW_004519520.1	Scaffold5449	626	AA	TT	1947057554
SNP_P4_187625_2124	NW_004519520.1	Scaffold5449	2124	TT	AA	1947057556
SNP_P4_187626_2128	NW_004519520.1	Scaffold5449	2128	AA	TT	1947057558
SNP_P4_187627_2138	NW_004519520.1	Scaffold5449	2138	CC	TT	1947057560
SNP_P4_187628_2199	NW_004519520.1	Scaffold5449	2199	TT	GG	1947057562
SNP_P4_187629_2219	NW_004519520.1	Scaffold5449	2219	GG	AA	1947057564
SNP_P4_187630_2265	NW_004519520.1	Scaffold5449	2265	AA	GG	1947057566
SNP_P4_187631_2473	NW_004519520.1	Scaffold5449	2473	CC	TT	1947057568
SNP_P4_187632_499	NW_004519523.1	Scaffold5452	499	TT	AA	1947057570
SNP_P4_187633_593	NW_004519523.1	Scaffold5452	593	AA	GG	1947057573
SNP_P4_187634_626	NW_004519523.1	Scaffold5452	626	GG	AA	1947057575
SNP_P4_187635_667	NW_004519523.1	Scaffold5452	667	GG	CC	1947057577
SNP_P4_187636_699	NW_004519523.1	Scaffold5452	699	TT	GG	1947057579
SNP_P4_187637_716	NW_004519523.1	Scaffold5452	716	GG	AA	1947057581
SNP_P4_187638_735	NW_004519523.1	Scaffold5452	735	AA	GG	1947057583
SNP_P4_187639_922	NW_004519523.1	Scaffold5452	922	TT	CC	1947057585
SNP_P4_187640_923	NW_004519523.1	Scaffold5452	923	CC	AA	1947057587
SNP_P4_187641_1017	NW_004519523.1	Scaffold5452	1017	AA	GG	1947057589
SNP_P4_187642_1040	NW_004519523.1	Scaffold5452	1040	TT	AA	1947057591
SNP_P4_187643_1087	NW_004519523.1	Scaffold5452	1087	CC	GG	1947057593
SNP_P4_187644_1134	NW_004519523.1	Scaffold5452	1134	GG	AA	1947057595
SNP_P4_187645_1191	NW_004519523.1	Scaffold5452	1191	GG	AA	1947057597
SNP_P4_187646_1325	NW_004519523.1	Scaffold5452	1325	CC	TT	1947057599
SNP_P4_187647_1445	NW_004519523.1	Scaffold5452	1445	GG	TT	1947057601
SNP_P4_187648_1593	NW_004519523.1	Scaffold5452	1593	AA	CC	1947057603
SNP_P4_187649_1638	NW_004519523.1	Scaffold5452	1638	TT	CC	1947057605
SNP_P4_187650_810	NW_004519526.1	Scaffold5455	810	GG	TT	1947057607
SNP_P4_187651_890	NW_004519526.1	Scaffold5455	890	TT	GG	1947057609
SNP_P4_187652_1094	NW_004519528.1	Scaffold5458	1094	CC	TT	1947057611
SNP_P4_187653_1116	NW_004519528.1	Scaffold5458	1116	CC	TT	1947057613

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_187655_7011	NW_004519528.1	Scaffold5458	7011	AA	GG	1947057617
SNP_P4_187656_11247	NW_004519528.1	Scaffold5458	11247	TT	CC	1947057619
SNP_P4_187657_11264	NW_004519528.1	Scaffold5458	11264	TT	GG	1947057621
SNP_P4_187659_11592	NW_004519528.1	Scaffold5458	11592	CC	TT	1947057623
SNP_P4_187660_421	NW_004519530.1	Scaffold5460	421	TT	AA	1947057625
SNP_P4_187661_618	NW_004519530.1	Scaffold5460	618	CC	GG	1947057627
SNP_P4_187662_1809	NW_004519531.1	Scaffold5463	1809	CC	TT	1947057629
SNP_P4_187663_148	NW_004519533.1	Scaffold5465	148	AA	CC	1947057631
SNP_P4_187664_4924	NW_004519533.1	Scaffold5465	4924	CC	TT	1947057633
SNP_P4_187665_5063	NW_004519533.1	Scaffold5465	5063	AA	TT	1947057635
SNP_P4_187666_5115	NW_004519533.1	Scaffold5465	5115	GG	AA	1947057637
SNP_P4_187667_5495	NW_004519533.1	Scaffold5465	5495	GG	CC	1947057639
SNP_P4_187668_5541	NW_004519533.1	Scaffold5465	5541	CC	GG	1947057641
SNP_P4_187669_334	NW_004519535.1	Scaffold5472	334	AA	GG	1947057643
SNP_P4_187670_500	NW_004519535.1	Scaffold5472	500	CC	AA	1947057645
SNP_P4_187671_649	NW_004519535.1	Scaffold5472	649	CC	TT	1947057647
SNP_P4_187672_658	NW_004519535.1	Scaffold5472	658	AA	GG	1947057649
SNP_P4_187673_673	NW_004519535.1	Scaffold5472	673	AA	CC	1947057651
SNP_P4_187674_684	NW_004519535.1	Scaffold5472	684	GG	TT	1947057653
SNP_P4_187675_825	NW_004519535.1	Scaffold5472	825	TT	CC	1947057655
SNP_P4_187676_1179	NW_004519544.1	Scaffold5484	1179	TT	AA	1947057657
SNP_P4_187677_1222	NW_004519544.1	Scaffold5484	1222	AA	TT	1947057659
SNP_P4_187678_1224	NW_004519544.1	Scaffold5484	1224	AA	GG	1947057661
SNP_P4_187679_1247	NW_004519544.1	Scaffold5484	1247	AA	GG	1947057663
SNP_P4_187680_1262	NW_004519544.1	Scaffold5484	1262	TT	CC	1947057665
SNP_P4_187681_3778	NW_004519544.1	Scaffold5484	3778	CC	TT	1947057667
SNP_P4_187682_3782	NW_004519544.1	Scaffold5484	3782	TT	GG	1947057669
SNP_P4_187683_5439	NW_004519544.1	Scaffold5484	5439	GG	AA	1947057671
SNP_P4_187684_5785	NW_004519544.1	Scaffold5484	5785	GG	AA	1947057673
SNP_P4_187685_1364	NW_004519548.1	Scaffold5489	1364	CC	AA	1947057675
SNP_P4_187686_1404	NW_004519548.1	Scaffold5489	1404	CC	AA	1947057677
SNP_P4_187687_1462	NW_004519548.1	Scaffold5489	1462	AA	TT	1947057679
SNP_P4_187688_1584	NW_004519548.1	Scaffold5489	1584	TT	AA	1947057681
SNP_P4_187689_1631	NW_004519548.1	Scaffold5489	1631	GG	TT	1947057683
SNP_P4_187690_1474	NW_004519549.1	Scaffold5490	1474	AA	GG	1947057685
SNP_P4_187691_10816	NW_004519552.1	Scaffold5493	10816	GG	AA	1947057687
SNP_P4_187692_465	NW_004519553.1	Scaffold5497	465	GG	AA	1947057689
SNP_P4_187693_473	NW_004519553.1	Scaffold5497	473	AA	GG	1947057691
SNP_P4_187694_590	NW_004519553.1	Scaffold5497	590	CC	TT	1947057693
SNP_P4_187695_899	NW_004519553.1	Scaffold5497	899	CC	GG	1947057695
SNP_P4_187699_1482	NW_004519558.1	Scaffold5504	1482	TT	AA	1947057697

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_187701_673	NW_004519561.1	Scaffold5509	673	CC	TT	1947057701
SNP_P4_187702_1272	NW_004519561.1	Scaffold5509	1272	GG	TT	1947057703
SNP_P4_187703_2401	NW_004519561.1	Scaffold5509	2401	AA	TT	1947057705
SNP_P4_187704_2418	NW_004519561.1	Scaffold5509	2418	GG	AA	1947057707
SNP_P4_187706_12847	NW_004519562.1	Scaffold5511	12847	GG	AA	1947057709
SNP_P4_187707_12855	NW_004519562.1	Scaffold5511	12855	GG	TT	1947057711
SNP_P4_187708_14208	NW_004519562.1	Scaffold5511	14208	TT	AA	1947057713
SNP_P4_187709_14483	NW_004519562.1	Scaffold5511	14483	GG	AA	1947057715
SNP_P4_187710_3590	NW_004519565.1	Scaffold5514	3590	AA	CC	1947057717
SNP_P4_187711_3843	NW_004519565.1	Scaffold5514	3843	AA	CC	1947057719
SNP_P4_187712_3865	NW_004519565.1	Scaffold5514	3865	AA	GG	1947057721
SNP_P4_187713_3897	NW_004519565.1	Scaffold5514	3897	TT	CC	1947057723
SNP_P4_187714_3928	NW_004519565.1	Scaffold5514	3928	TT	AA	1947057725
SNP_P4_187715_3966	NW_004519565.1	Scaffold5514	3966	CC	TT	1947057727
SNP_P4_187716_3975	NW_004519565.1	Scaffold5514	3975	AA	CC	1947057729
SNP_P4_187717_4125	NW_004519565.1	Scaffold5514	4125	AA	GG	1947057731
SNP_P4_187718_5861	NW_004519565.1	Scaffold5514	5861	TT	AA	1947057733
SNP_P4_187719_5870	NW_004519565.1	Scaffold5514	5870	TT	CC	1947057735
SNP_P4_187720_5888	NW_004519565.1	Scaffold5514	5888	GG	TT	1947057737
SNP_P4_187721_5907	NW_004519565.1	Scaffold5514	5907	TT	CC	1947057739
SNP_P4_187722_5924	NW_004519565.1	Scaffold5514	5924	AA	GG	1947057741
SNP_P4_187723_20902	NW_004519578.1	Scaffold5537	20902	GG	TT	1947057743
SNP_P4_187724_64	NW_004519579.1	Scaffold5538	64	TT	CC	1947057745
SNP_P4_187725_97	NW_004519579.1	Scaffold5538	97	TT	CC	1947057747
SNP_P4_187726_102	NW_004519579.1	Scaffold5538	102	AA	GG	1947057749
SNP_P4_187727_224	NW_004519579.1	Scaffold5538	224	TT	AA	1947057751
SNP_P4_187728_232	NW_004519579.1	Scaffold5538	232	AA	TT	1947057753
SNP_P4_187729_1111	NW_004519579.1	Scaffold5538	1111	AA	GG	1947057755
SNP_P4_187730_1112	NW_004519579.1	Scaffold5538	1112	AA	TT	1947057757
SNP_P4_187731_1163	NW_004519579.1	Scaffold5538	1163	GG	AA	1947057759
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SNP_P4_187733_1280	NW_004519579.1	Scaffold5538	1280	CC	TT	1947057763
SNP_P4_187734_1319	NW_004519579.1	Scaffold5538	1319	AA	TT	1947057765
SNP_P4_187735_1410	NW_004519579.1	Scaffold5538	1410	AA	GG	1947057767
SNP_P4_187736_1994	NW_004519579.1	Scaffold5538	1994	AA	TT	1947057769
SNP_P4_187737_2026	NW_004519579.1	Scaffold5538	2026	AA	GG	1947057771
SNP_P4_187738_31	NW_004519580.1	Scaffold5541	31	TT	CC	1947057773
SNP_P4_187739_35	NW_004519580.1	Scaffold5541	35	CC	TT	1947057775
SNP_P4_187740_64	NW_004519580.1	Scaffold5541	64	AA	CC	1947057777
SNP_P4_187741_72	NW_004519580.1	Scaffold5541	72	AA	TT	1947057779
SNP_P4_187743_84	NW_004519580.1	Scaffold5541	84	GG	AA	1947057782

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_187745_142	NW_004519580.1	Scaffold5541	142	GG	CC	1947057786
SNP_P4_187746_153	NW_004519580.1	Scaffold5541	153	GG	TT	1947057788
SNP_P4_187747_388	NW_004519580.1	Scaffold5541	388	GG	TT	1947057790
SNP_P4_187748_627	NW_004519580.1	Scaffold5541	627	AA	GG	1947057792
SNP_P4_187749_702	NW_004519580.1	Scaffold5541	702	AA	TT	1947057794
SNP_P4_187750_722	NW_004519580.1	Scaffold5541	722	GG	AA	1947057796
SNP_P4_187751_723	NW_004519580.1	Scaffold5541	723	GG	TT	1947057798
SNP_P4_187752_729	NW_004519580.1	Scaffold5541	729	AA	GG	1947057800
SNP_P4_187753_760	NW_004519580.1	Scaffold5541	760	GG	AA	1947057802
SNP_P4_187754_775	NW_004519580.1	Scaffold5541	775	TT	AA	1947057804
SNP_P4_187755_778	NW_004519580.1	Scaffold5541	778	TT	AA	1947057806
SNP_P4_187756_819	NW_004519580.1	Scaffold5541	819	TT	CC	1947057808
SNP_P4_187757_875	NW_004519580.1	Scaffold5541	875	TT	CC	1947057810
SNP_P4_187758_913	NW_004519580.1	Scaffold5541	913	GG	AA	1947057812
SNP_P4_187759_1051	NW_004519580.1	Scaffold5541	1051	AA	GG	1947057814
SNP_P4_187760_1100	NW_004519580.1	Scaffold5541	1100	AA	CC	1947057816
SNP_P4_187761_1146	NW_004519580.1	Scaffold5541	1146	AA	GG	1947057818
SNP_P4_187762_1166	NW_004519580.1	Scaffold5541	1166	TT	AA	1947057820
SNP_P4_187763_1208	NW_004519580.1	Scaffold5541	1208	TT	CC	1947057822
SNP_P4_187764_1228	NW_004519580.1	Scaffold5541	1228	AA	TT	1947057824
SNP_P4_187765_187	NW_004519582.1	Scaffold5545	187	GG	AA	1947057826
SNP_P4_187766_202	NW_004519582.1	Scaffold5545	202	CC	GG	1947057828
SNP_P4_187768_466	NW_004519586.1	Scaffold5549	466	GG	TT	1947057830
SNP_P4_187769_805	NW_004519586.1	Scaffold5549	805	AA	CC	1947057832
SNP_P4_187771_105	NW_004519587.1	Scaffold5551	105	GG	AA	1947057834
SNP_P4_187772_116	NW_004519587.1	Scaffold5551	116	AA	CC	1947057836
SNP_P4_187773_144	NW_004519587.1	Scaffold5551	144	AA	GG	1947057838
SNP_P4_187774_307	NW_004519587.1	Scaffold5551	307	CC	GG	1947057840
SNP_P4_187775_368	NW_004519587.1	Scaffold5551	368	AA	GG	1947057842
SNP_P4_187776_376	NW_004519587.1	Scaffold5551	376	AA	CC	1947057844
SNP_P4_187777_410	NW_004519587.1	Scaffold5551	410	CC	TT	1947057846
SNP_P4_187778_507	NW_004519587.1	Scaffold5551	507	TT	CC	1947057848
SNP_P4_187779_510	NW_004519587.1	Scaffold5551	510	GG	CC	1947057850
SNP_P4_187780_512	NW_004519587.1	Scaffold5551	512	CC	AA	1947057852
SNP_P4_187782_670	NW_004519587.1	Scaffold5551	670	CC	TT	1947057854
SNP_P4_187783_721	NW_004519587.1	Scaffold5551	721	CC	GG	1947057856
SNP_P4_187785_783	NW_004519587.1	Scaffold5551	783	TT	CC	1947057858
SNP_P4_187787_843	NW_004519587.1	Scaffold5551	843	AA	GG	1947057860
SNP_P4_187789_194	NW_004519589.1	Scaffold5553	194	GG	AA	1947057862
SNP_P4_187790_337	NW_004519589.1	Scaffold5553	337	TT	AA	1947057864
SNP_P4_187791_406	NW_004519589.1	Scaffold5553	406	GG	AA	1947057866

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_187792_413	NW_004519589.1	Scaffold5553	413	AA	CC	1947057868
SNP_P4_187793_435	NW_004519589.1	Scaffold5553	435	GG	AA	1947057870
SNP_P4_187794_457	NW_004519589.1	Scaffold5553	457	GG	TT	1947057872
SNP_P4_187795_467	NW_004519589.1	Scaffold5553	467	GG	AA	1947057874
SNP_P4_187796_499	NW_004519589.1	Scaffold5553	499	GG	TT	1947057876
SNP_P4_187797_521	NW_004519589.1	Scaffold5553	521	TT	CC	1947057878
SNP_P4_187798_571	NW_004519589.1	Scaffold5553	571	TT	GG	1947057880
SNP_P4_187799_582	NW_004519589.1	Scaffold5553	582	AA	TT	1947057882
SNP_P4_187800_619	NW_004519589.1	Scaffold5553	619	AA	TT	1947057884
SNP_P4_187801_630	NW_004519589.1	Scaffold5553	630	CC	TT	1947057886
SNP_P4_187802_694	NW_004519589.1	Scaffold5553	694	AA	GG	1947057888
SNP_P4_187803_709	NW_004519589.1	Scaffold5553	709	TT	GG	1947057890
SNP_P4_187804_720	NW_004519589.1	Scaffold5553	720	AA	TT	1947057892
SNP_P4_187805_10880	NW_004519589.1	Scaffold5553	10880	AA	CC	1947057894
SNP_P4_187806_12385	NW_004519589.1	Scaffold5553	12385	CC	TT	1947057896
SNP_P4_187807_12679	NW_004519589.1	Scaffold5553	12679	AA	TT	1947057898
SNP_P4_187808_12737	NW_004519589.1	Scaffold5553	12737	CC	TT	1947057900
SNP_P4_187809_591	NW_004519595.1	Scaffold5562	591	CC	TT	1947057902
SNP_P4_187810_573	NW_004519599.1	Scaffold5569	573	GG	AA	1947057904
SNP_P4_187811_580	NW_004519599.1	Scaffold5569	580	GG	CC	1947057906
SNP_P4_187812_857	NW_004519599.1	Scaffold5569	857	GG	CC	1947057908
SNP_P4_187813_891	NW_004519599.1	Scaffold5569	891	AA	CC	1947057910
SNP_P4_187814_934	NW_004519599.1	Scaffold5569	934	CC	AA	1947057912
SNP_P4_187816_685	NW_004519604.1	Scaffold5579	685	CC	TT	1947057914
SNP_P4_187817_695	NW_004519604.1	Scaffold5579	695	AA	CC	1947057916
SNP_P4_187818_1092	NW_004519605.1	Scaffold5580	1092	GG	AA	1947057918
SNP_P4_187819_1403	NW_004519605.1	Scaffold5580	1403	GG	AA	1947057920
SNP_P4_187820_1536	NW_004519609.1	Scaffold5587	1536	AA	TT	1947057922
SNP_P4_187822_330	NW_004519615.1	Scaffold5593	330	AA	CC	1947057924
SNP_P4_187823_338	NW_004519615.1	Scaffold5593	338	GG	CC	1947057926
SNP_P4_187824_340	NW_004519615.1	Scaffold5593	340	TT	CC	1947057928
SNP_P4_187825_418	NW_004519615.1	Scaffold5593	418	AA	GG	1947057930
SNP_P4_187826_477	NW_004519615.1	Scaffold5593	477	TT	CC	1947057932
SNP_P4_187827_482	NW_004519615.1	Scaffold5593	482	CC	TT	1947057934
SNP_P4_187828_527	NW_004519615.1	Scaffold5593	527	CC	TT	1947057936
SNP_P4_187829_529	NW_004519615.1	Scaffold5593	529	GG	AA	1947057938
SNP_P4_187830_543	NW_004519615.1	Scaffold5593	543	TT	CC	1947057940
SNP_P4_187831_544	NW_004519615.1	Scaffold5593	544	AA	GG	1947057942
SNP_P4_187832_706	NW_004519615.1	Scaffold5593	706	CC	TT	1947057944
SNP_P4_187833_66	NW_004519617.1	Scaffold5596	66	TT	AA	1947057946
SNP_P4_187834_72	NW_004519617.1	Scaffold5596	72	AA	GG	1947057948
SNP_P4_187835_358	NW_004519617.1	Scaffold5596	358	AA	GG	1947057950

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_187837_563	NW_004519617.1	Scaffold5596	563	AA	GG	1947057954
SNP_P4_187838_981	NW_004519617.1	Scaffold5596	981	TT	CC	1947057956
SNP_P4_187839_985	NW_004519618.1	Scaffold5598	985	TT	CC	1947057958
SNP_P4_187840_986	NW_004519618.1	Scaffold5598	986	AA	TT	1947057960
SNP_P4_187841_987	NW_004519618.1	Scaffold5598	987	TT	AA	1947057962
SNP_P4_187842_989	NW_004519618.1	Scaffold5598	989	TT	CC	1947057964
SNP_P4_187843_3147	NW_004519618.1	Scaffold5598	3147	TT	GG	1947057966
SNP_P4_187844_3177	NW_004519618.1	Scaffold5598	3177	AA	TT	1947057968
SNP_P4_187845_3276	NW_004519618.1	Scaffold5598	3276	TT	GG	1947057970
SNP_P4_187846_3492	NW_004519618.1	Scaffold5598	3492	TT	CC	1947057972
SNP_P4_187847_3773	NW_004519618.1	Scaffold5598	3773	AA	CC	1947057974
SNP_P4_187848_4564	NW_004519618.1	Scaffold5598	4564	AA	TT	1947057976
SNP_P4_187849_4582	NW_004519618.1	Scaffold5598	4582	TT	CC	1947057978
SNP_P4_187850_4892	NW_004519618.1	Scaffold5598	4892	CC	GG	1947057980
SNP_P4_187851_5005	NW_004519618.1	Scaffold5598	5005	TT	CC	1947057982
SNP_P4_187852_5097	NW_004519618.1	Scaffold5598	5097	AA	GG	1947057984
SNP_P4_187853_5142	NW_004519618.1	Scaffold5598	5142	CC	TT	1947057986
SNP_P4_187854_5189	NW_004519618.1	Scaffold5598	5189	AA	CC	1947057988
SNP_P4_187855_5240	NW_004519618.1	Scaffold5598	5240	GG	CC	1947057990
SNP_P4_187856_5316	NW_004519618.1	Scaffold5598	5316	CC	AA	1947057992
SNP_P4_187857_5411	NW_004519618.1	Scaffold5598	5411	CC	AA	1947057994
SNP_P4_187858_5920	NW_004519618.1	Scaffold5598	5920	CC	TT	1947057996
SNP_P4_187859_6165	NW_004519618.1	Scaffold5598	6165	CC	TT	1947057998
SNP_P4_187860_6433	NW_004519618.1	Scaffold5598	6433	AA	CC	1947058000
SNP_P4_187861_6518	NW_004519618.1	Scaffold5598	6518	CC	TT	1947058002
SNP_P4_187862_6739	NW_004519618.1	Scaffold5598	6739	TT	CC	1947058004
SNP_P4_187863_7281	NW_004519618.1	Scaffold5598	7281	GG	AA	1947058006
SNP_P4_187864_7383	NW_004519618.1	Scaffold5598	7383	GG	AA	1947058008
SNP_P4_187865_7404	NW_004519618.1	Scaffold5598	7404	AA	CC	1947058010
SNP_P4_187866_7421	NW_004519618.1	Scaffold5598	7421	TT	AA	1947058012
SNP_P4_187867_7524	NW_004519618.1	Scaffold5598	7524	GG	AA	1947058014
SNP_P4_187868_7530	NW_004519618.1	Scaffold5598	7530	AA	CC	1947058016
SNP_P4_187869_7887	NW_004519618.1	Scaffold5598	7887	GG	CC	1947058018
SNP_P4_187870_7987	NW_004519618.1	Scaffold5598	7987	GG	CC	1947058020
SNP_P4_187871_8291	NW_004519618.1	Scaffold5598	8291	GG	AA	1947058022
SNP_P4_187872_8809	NW_004519618.1	Scaffold5598	8809	TT	AA	1947058024
SNP_P4_187873_8893	NW_004519618.1	Scaffold5598	8893	CC	AA	1947058026
SNP_P4_187874_11178	NW_004519618.1	Scaffold5598	11178	AA	GG	1947058028
SNP_P4_187875_11909	NW_004519618.1	Scaffold5598	11909	AA	GG	1947058030
SNP_P4_187876_13174	NW_004519618.1	Scaffold5598	13174	AA	GG	1947058032
SNP_P4_187877_13189	NW_004519618.1	Scaffold5598	13189	TT	AA	1947058034

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_187879_13222	NW_004519618.1	Scaffold5598	13222	AA	GG	1947058039
SNP_P4_187880_13342	NW_004519618.1	Scaffold5598	13342	CC	GG	1947058041
SNP_P4_187881_13377	NW_004519618.1	Scaffold5598	13377	CC	GG	1947058043
SNP_P4_187883_13730	NW_004519618.1	Scaffold5598	13730	CC	TT	1947058045
SNP_P4_187885_750	NW_004519619.1	Scaffold5599	750	AA	TT	1947058047
SNP_P4_187886_854	NW_004519619.1	Scaffold5599	854	AA	CC	1947058049
SNP_P4_187887_857	NW_004519619.1	Scaffold5599	857	GG	CC	1947058051
SNP_P4_187888_5322	NW_004519619.1	Scaffold5599	5322	GG	AA	1947058053
SNP_P4_187889_5497	NW_004519619.1	Scaffold5599	5497	AA	TT	1947058055
SNP_P4_187890_5636	NW_004519619.1	Scaffold5599	5636	CC	GG	1947058057
SNP_P4_187891_5863	NW_004519619.1	Scaffold5599	5863	GG	AA	1947058059
SNP_P4_187893_635	NW_004519620.1	Scaffold5600	635	CC	TT	1947058061
SNP_P4_187895_935	NW_004519620.1	Scaffold5600	935	AA	TT	1947058063
SNP_P4_187896_1030	NW_004519620.1	Scaffold5600	1030	TT	AA	1947058065
SNP_P4_187897_4140	NW_004519622.1	Scaffold5602	4140	AA	GG	1947058067
SNP_P4_187898_4166	NW_004519622.1	Scaffold5602	4166	CC	TT	1947058069
SNP_P4_187899_910	NW_004519624.1	Scaffold5605	910	TT	GG	1947058071
SNP_P4_187900_321	NW_004519631.1	Scaffold5614	321	AA	GG	1947058073
SNP_P4_187901_369	NW_004519631.1	Scaffold5614	369	CC	TT	1947058075
SNP_P4_187902_905	NW_004519631.1	Scaffold5614	905	GG	CC	1947058077
SNP_P4_187903_3915	NW_004519631.1	Scaffold5614	3915	CC	TT	1947058079
SNP_P4_187904_3931	NW_004519631.1	Scaffold5614	3931	AA	TT	1947058081
SNP_P4_187905_4160	NW_004519631.1	Scaffold5614	4160	CC	GG	1947058083
SNP_P4_187906_4164	NW_004519631.1	Scaffold5614	4164	TT	AA	1947058085
SNP_P4_187907_4170	NW_004519631.1	Scaffold5614	4170	AA	TT	1947058087
SNP_P4_187908_4175	NW_004519631.1	Scaffold5614	4175	CC	AA	1947058090
SNP_P4_187909_4184	NW_004519631.1	Scaffold5614	4184	GG	CC	1947058092
SNP_P4_187910_4924	NW_004519631.1	Scaffold5614	4924	TT	GG	1947058094
SNP_P4_187911_5150	NW_004519631.1	Scaffold5614	5150	GG	AA	1947058096
SNP_P4_187912_5320	NW_004519631.1	Scaffold5614	5320	AA	TT	1947058098
SNP_P4_187913_5494	NW_004519631.1	Scaffold5614	5494	TT	AA	1947058100
SNP_P4_187914_5578	NW_004519631.1	Scaffold5614	5578	CC	TT	1947058102
SNP_P4_187915_5587	NW_004519631.1	Scaffold5614	5587	GG	CC	1947058104
SNP_P4_187916_5626	NW_004519631.1	Scaffold5614	5626	GG	CC	1947058106
SNP_P4_187917_998	NW_004519634.1	Scaffold5617	998	AA	GG	1947058108
SNP_P4_187918_1091	NW_004519634.1	Scaffold5617	1091	GG	TT	1947058110
SNP_P4_187919_1344	NW_004519634.1	Scaffold5617	1344	AA	CC	1947058112
SNP_P4_187920_1365	NW_004519634.1	Scaffold5617	1365	TT	CC	1947058114
SNP_P4_187921_1380	NW_004519634.1	Scaffold5617	1380	GG	AA	1947058116
SNP_P4_187922_1398	NW_004519634.1	Scaffold5617	1398	TT	CC	1947058118
SNP_P4_187923_1434	NW_004519634.1	Scaffold5617	1434	AA	GG	1947058120

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_187925_1462	NW_004519634.1	Scaffold5617	1462	TT	AA	1947058124
SNP_P4_187926_1467	NW_004519634.1	Scaffold5617	1467	TT	AA	1947058126
SNP_P4_187927_50	NW_004519635.1	Scaffold5619	50	GG	CC	1947058128
SNP_P4_187929_72	NW_004519635.1	Scaffold5619	72	TT	CC	1947058130
SNP_P4_187930_74	NW_004519635.1	Scaffold5619	74	GG	TT	1947058132
SNP_P4_187931_463	NW_004519635.1	Scaffold5619	463	TT	CC	1947058134
SNP_P4_187932_493	NW_004519635.1	Scaffold5619	493	AA	CC	1947058136
SNP_P4_187933_658	NW_004519635.1	Scaffold5619	658	AA	CC	1947058138
SNP_P4_187934_1004	NW_004519635.1	Scaffold5619	1004	CC	GG	1947058140
SNP_P4_187935_1210	NW_004519635.1	Scaffold5619	1210	TT	CC	1947058142
SNP_P4_187936_1359	NW_004519635.1	Scaffold5619	1359	TT	AA	1947058144
SNP_P4_187937_983	NW_004519636.1	Scaffold5624	983	CC	TT	1947058146
SNP_P4_187938_991	NW_004519636.1	Scaffold5624	991	CC	TT	1947058148
SNP_P4_187939_118	NW_004519638.1	Scaffold5627	118	TT	CC	1947058150
SNP_P4_187940_164	NW_004519638.1	Scaffold5627	164	AA	GG	1947058152
SNP_P4_187941_294	NW_004519638.1	Scaffold5627	294	GG	AA	1947058154
SNP_P4_187942_375	NW_004519638.1	Scaffold5627	375	AA	GG	1947058156
SNP_P4_187943_380	NW_004519638.1	Scaffold5627	380	TT	CC	1947058158
SNP_P4_187944_408	NW_004519638.1	Scaffold5627	408	TT	AA	1947058160
SNP_P4_187945_422	NW_004519638.1	Scaffold5627	422	GG	CC	1947058162
SNP_P4_187946_428	NW_004519638.1	Scaffold5627	428	AA	TT	1947058164
SNP_P4_187947_433	NW_004519638.1	Scaffold5627	433	AA	GG	1947058166
SNP_P4_187948_4631	NW_004519638.1	Scaffold5627	4631	GG	AA	1947058168
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SNP_P4_187951_5499	NW_004519638.1	Scaffold5627	5499	TT	CC	1947058174
SNP_P4_187952_8232	NW_004519638.1	Scaffold5627	8232	TT	AA	1947058176
SNP_P4_187953_8705	NW_004519638.1	Scaffold5627	8705	AA	CC	1947058178
SNP_P4_187954_10362	NW_004519638.1	Scaffold5627	10362	GG	AA	1947058180
SNP_P4_187955_10544	NW_004519638.1	Scaffold5627	10544	AA	GG	1947058182
SNP_P4_187956_10741	NW_004519638.1	Scaffold5627	10741	AA	GG	1947058184
SNP_P4_187957_390	NW_004519641.1	Scaffold5634	390	CC	TT	1947058186
SNP_P4_187958_460	NW_004519641.1	Scaffold5634	460	TT	AA	1947058187
SNP_P4_187959_748	NW_004519649.1	Scaffold5647	748	TT	CC	1947058188
SNP_P4_187960_869	NW_004519649.1	Scaffold5647	869	TT	CC	1947058189
SNP_P4_187961_2370	NW_004519652.1	Scaffold5650	2370	GG	AA	1947058190
SNP_P4_187962_2774	NW_004519652.1	Scaffold5650	2774	CC	AA	1947058191
SNP_P4_187963_2808	NW_004519652.1	Scaffold5650	2808	TT	AA	1947058192
SNP_P4_187964_3078	NW_004519652.1	Scaffold5650	3078	AA	GG	1947058193
SNP_P4_187965_3081	NW_004519652.1	Scaffold5650	3081	AA	CC	1947058194
SNP_P4_187966_1043	NW_004519654.1	Scaffold5653	1043	CC	TT	1947058195

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_187969_1601	NW_004519654.1	Scaffold5653	1601	AA	CC	1947058201
SNP_P4_187970_30236	NW_004519654.1	Scaffold5653	30236	AA	CC	1947058203
SNP_P4_187971_30268	NW_004519654.1	Scaffold5653	30268	GG	AA	1947058205
SNP_P4_187972_30328	NW_004519654.1	Scaffold5653	30328	CC	TT	1947058207
SNP_P4_187973_30434	NW_004519654.1	Scaffold5653	30434	CC	TT	1947058209
SNP_P4_187974_30515	NW_004519654.1	Scaffold5653	30515	CC	TT	1947058211
SNP_P4_187975_30589	NW_004519654.1	Scaffold5653	30589	TT	CC	1947058213
SNP_P4_187976_612	NW_004519657.1	Scaffold5656	612	GG	AA	1947058215
SNP_P4_187977_633	NW_004519657.1	Scaffold5656	633	AA	CC	1947058217
SNP_P4_187978_1194	NW_004519663.1	Scaffold5665	1194	TT	AA	1947058219
SNP_P4_187979_864	NW_004519664.1	Scaffold5666	864	AA	GG	1947058221
SNP_P4_187980_973	NW_004519664.1	Scaffold5666	973	GG	AA	1947058223
SNP_P4_187981_998	NW_004519664.1	Scaffold5666	998	TT	CC	1947058225
SNP_P4_187982_1089	NW_004519664.1	Scaffold5666	1089	TT	CC	1947058227
SNP_P4_187983_1110	NW_004519664.1	Scaffold5666	1110	CC	TT	1947058229
SNP_P4_187984_1167	NW_004519664.1	Scaffold5666	1167	CC	TT	1947058231
SNP_P4_187985_1262	NW_004519664.1	Scaffold5666	1262	CC	GG	1947058233
SNP_P4_187986_1305	NW_004519664.1	Scaffold5666	1305	CC	AA	1947058235
SNP_P4_187987_2296	NW_004519667.1	Scaffold5671	2296	TT	CC	1947058237
SNP_P4_187988_2344	NW_004519667.1	Scaffold5671	2344	AA	TT	1947058239
SNP_P4_187989_2356	NW_004519667.1	Scaffold5671	2356	CC	GG	1947058241
SNP_P4_187990_1611	NW_004519669.1	Scaffold5673	1611	GG	CC	1947058243
SNP_P4_187991_3102	NW_004519670.1	Scaffold5674	3102	GG	AA	1947058245
SNP_P4_187992_15703	NW_004519670.1	Scaffold5674	15703	TT	GG	1947058247
SNP_P4_187993_287	NW_004519673.1	Scaffold5679	287	AA	GG	1947058249
SNP_P4_187994_395	NW_004519673.1	Scaffold5679	395	CC	TT	1947058251
SNP_P4_187995_424	NW_004519673.1	Scaffold5679	424	GG	CC	1947058253
SNP_P4_187996_441	NW_004519673.1	Scaffold5679	441	TT	GG	1947058255
SNP_P4_187997_456	NW_004519673.1	Scaffold5679	456	CC	TT	1947058257
SNP_P4_187998_476	NW_004519673.1	Scaffold5679	476	GG	AA	1947058259
SNP_P4_187999_525	NW_004519673.1	Scaffold5679	525	GG	AA	1947058261
SNP_P4_188001_944	NW_004519678.1	Scaffold5687	944	CC	GG	1947058263
SNP_P4_188002_1232	NW_004519678.1	Scaffold5687	1232	AA	GG	1947058266
SNP_P4_188003_1296	NW_004519678.1	Scaffold5687	1296	AA	TT	1947058268
SNP_P4_188004_3064	NW_004519678.1	Scaffold5687	3064	AA	TT	1947058270
SNP_P4_188005_73	NW_004519680.1	Scaffold5691	73	AA	TT	1947058272
SNP_P4_188006_362	NW_004519680.1	Scaffold5691	362	TT	GG	1947058274
SNP_P4_188007_1055	NW_004519680.1	Scaffold5691	1055	TT	AA	1947058276
SNP_P4_188008_1191	NW_004519682.1	Scaffold5694	1191	GG	TT	1947058278
SNP_P4_188009_1480	NW_004519682.1	Scaffold5694	1480	TT	CC	1947058279

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_188010_571	NW_004519684.1	Scaffold5698	571	GG	AA	1947058281
SNP_P4_188011_1451	NW_004519684.1	Scaffold5698	1451	AA	CC	1947058283
SNP_P4_188012_1462	NW_004519684.1	Scaffold5698	1462	AA	TT	1947058285
SNP_P4_188013_1717	NW_004519684.1	Scaffold5698	1717	GG	AA	1947058287
SNP_P4_188014_1774	NW_004519684.1	Scaffold5698	1774	GG	AA	1947058289
SNP_P4_188015_3411	NW_004519684.1	Scaffold5698	3411	AA	GG	1947058291
SNP_P4_188016_101	NW_004519685.1	Scaffold5699	101	AA	GG	1947058293
SNP_P4_188017_102	NW_004519685.1	Scaffold5699	102	AA	TT	1947058295
SNP_P4_188018_701	NW_004519685.1	Scaffold5699	701	TT	GG	1947058297
SNP_P4_188019_709	NW_004519685.1	Scaffold5699	709	TT	GG	1947058299
SNP_P4_188020_713	NW_004519685.1	Scaffold5699	713	AA	CC	1947058301
SNP_P4_188021_738	NW_004519685.1	Scaffold5699	738	CC	TT	1947058303
SNP_P4_188022_64	NW_004519686.1	Scaffold5700	64	TT	AA	1947058305
SNP_P4_188023_121	NW_004519686.1	Scaffold5700	121	TT	AA	1947058307
SNP_P4_188024_324	NW_004519686.1	Scaffold5700	324	TT	AA	1947058309
SNP_P4_188025_8079	NW_004519686.1	Scaffold5700	8079	GG	AA	1947058311
SNP_P4_188027_8225	NW_004519686.1	Scaffold5700	8225	TT	AA	1947058313
SNP_P4_188028_8236	NW_004519686.1	Scaffold5700	8236	GG	TT	1947058315
SNP_P4_188029_64	NW_004519689.1	Scaffold5703	64	CC	AA	1947058317
SNP_P4_188030_103	NW_004519689.1	Scaffold5703	103	CC	AA	1947058319
SNP_P4_188032_155	NW_004519689.1	Scaffold5703	155	TT	AA	1947058321
SNP_P4_188033_3508	NW_004519690.1	Scaffold5704	3508	GG	TT	1947058323
SNP_P4_188034_3514	NW_004519690.1	Scaffold5704	3514	AA	CC	1947058325
SNP_P4_188035_3552	NW_004519690.1	Scaffold5704	3552	AA	CC	1947058327
SNP_P4_188036_3560	NW_004519690.1	Scaffold5704	3560	AA	TT	1947058329
SNP_P4_188037_3575	NW_004519690.1	Scaffold5704	3575	AA	TT	1947058331
SNP_P4_188038_3581	NW_004519690.1	Scaffold5704	3581	TT	AA	1947058333
SNP_P4_188039_3587	NW_004519690.1	Scaffold5704	3587	GG	CC	1947058335
SNP_P4_188040_3589	NW_004519690.1	Scaffold5704	3589	GG	AA	1947058337
SNP_P4_188041_3590	NW_004519690.1	Scaffold5704	3590	TT	AA	1947058339
SNP_P4_188042_725	NW_004519692.1	Scaffold5709	725	GG	AA	1947058341
SNP_P4_188043_762	NW_004519692.1	Scaffold5709	762	AA	GG	1947058343
SNP_P4_188044_969	NW_004519692.1	Scaffold5709	969	AA	TT	1947058345
SNP_P4_188045_977	NW_004519692.1	Scaffold5709	977	CC	TT	1947058347
SNP_P4_188046_15237	NW_004519693.1	Scaffold5714	15237	AA	TT	1947058350
SNP_P4_188047_15256	NW_004519693.1	Scaffold5714	15256	AA	GG	1947058352
SNP_P4_188048_15263	NW_004519693.1	Scaffold5714	15263	TT	CC	1947058354
SNP_P4_188049_15297	NW_004519693.1	Scaffold5714	15297	TT	CC	1947058356
SNP_P4_188051_39282	NW_004519693.1	Scaffold5714	39282	TT	AA	1947058358
SNP_P4_188052_54506	NW_004519693.1	Scaffold5714	54506	AA	GG	1947058360
SNP_P4_188053_4502	NW_004519694.1	Scaffold5715	4502	TT	GG	1947058362
SNP_P4_188054_512	NW_004519695.1	Scaffold5717	512	TT	CC	1947058364

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_188055_538	NW_004519695.1	Scaffold5717	538	CC	AA	1947058366
SNP_P4_188056_1325	NW_004519697.1	Scaffold5719	1325	TT	AA	1947058368
SNP_P4_188057_1575	NW_004519697.1	Scaffold5719	1575	TT	AA	1947058370
SNP_P4_188058_1586	NW_004519697.1	Scaffold5719	1586	CC	GG	1947058372
SNP_P4_188059_523	NW_004519698.1	Scaffold5720	523	AA	GG	1947058374
SNP_P4_188060_186	NW_004519699.1	Scaffold5721	186	CC	TT	1947058376
SNP_P4_188061_189	NW_004519699.1	Scaffold5721	189	AA	CC	1947058378
SNP_P4_188062_240	NW_004519699.1	Scaffold5721	240	GG	TT	1947058380
SNP_P4_188063_260	NW_004519699.1	Scaffold5721	260	TT	AA	1947058382
SNP_P4_188064_382	NW_004519699.1	Scaffold5721	382	GG	AA	1947058384
SNP_P4_188065_909	NW_004519699.1	Scaffold5721	909	TT	CC	1947058386
SNP_P4_188066_924	NW_004519699.1	Scaffold5721	924	GG	AA	1947058388
SNP_P4_188067_927	NW_004519699.1	Scaffold5721	927	TT	CC	1947058390
SNP_P4_188068_5301	NW_004519701.1	Scaffold5725	5301	AA	CC	1947058392
SNP_P4_188069_6226	NW_004519701.1	Scaffold5725	6226	TT	GG	1947058394
SNP_P4_188070_239	NW_004519704.1	Scaffold5730	239	GG	AA	1947058396
SNP_P4_188071_240	NW_004519704.1	Scaffold5730	240	CC	TT	1947058398
SNP_P4_188072_345	NW_004519704.1	Scaffold5730	345	CC	TT	1947058400
SNP_P4_188073_421	NW_004519704.1	Scaffold5730	421	GG	AA	1947058402
SNP_P4_188074_425	NW_004519704.1	Scaffold5730	425	GG	TT	1947058404
SNP_P4_188076_711	NW_004519704.1	Scaffold5730	711	AA	CC	1947058406
SNP_P4_188077_722	NW_004519704.1	Scaffold5730	722	TT	CC	1947058408
SNP_P4_188078_805	NW_004519704.1	Scaffold5730	805	TT	AA	1947058410
SNP_P4_188079_808	NW_004519704.1	Scaffold5730	808	CC	TT	1947058412
SNP_P4_188080_914	NW_004519704.1	Scaffold5730	914	CC	TT	1947058414
SNP_P4_188081_330	NW_004519705.1	Scaffold5734	330	AA	GG	1947058416
SNP_P4_188082_861	NW_004519705.1	Scaffold5734	861	TT	GG	1947058418
SNP_P4_188083_892	NW_004519705.1	Scaffold5734	892	CC	TT	1947058420
SNP_P4_188084_1228	NW_004519705.1	Scaffold5734	1228	GG	AA	1947058422
SNP_P4_188085_1234	NW_004519705.1	Scaffold5734	1234	TT	GG	1947058424
SNP_P4_188086_1355	NW_004519705.1	Scaffold5734	1355	TT	CC	1947058426
SNP_P4_188087_978	NW_004519706.1	Scaffold5735	978	TT	AA	1947058428
SNP_P4_188088_1296	NW_004519706.1	Scaffold5735	1296	TT	CC	1947058430
SNP_P4_188089_1322	NW_004519706.1	Scaffold5735	1322	GG	AA	1947058432
SNP_P4_188090_1329	NW_004519706.1	Scaffold5735	1329	TT	CC	1947058434
SNP_P4_188091_1236	NW_004519707.1	Scaffold5737	1236	TT	AA	1947058436
SNP_P4_188092_530	NW_004519709.1	Scaffold5739	530	GG	AA	1947058438
SNP_P4_188093_843	NW_004519709.1	Scaffold5739	843	CC	TT	1947058440
SNP_P4_188094_866	NW_004519709.1	Scaffold5739	866	CC	TT	1947058442
SNP_P4_188095_914	NW_004519709.1	Scaffold5739	914	AA	CC	1947058444
SNP_P4_188096_937	NW_004519709.1	Scaffold5739	937	GG	TT	1947058446
SNP_P4_188097_946	NW_004519709.1	Scaffold5739	946	CC	AA	1947058448

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_188099_950	NW_004519709.1	Scaffold5739	950	CC	TT	1947058452
SNP_P4_188100_954	NW_004519709.1	Scaffold5739	954	AA	GG	1947058454
SNP_P4_188101_955	NW_004519709.1	Scaffold5739	955	GG	AA	1947058456
SNP_P4_188102_958	NW_004519709.1	Scaffold5739	958	CC	TT	1947058458
SNP_P4_188103_1075	NW_004519709.1	Scaffold5739	1075	AA	GG	1947058460
SNP_P4_188104_1122	NW_004519709.1	Scaffold5739	1122	TT	GG	1947058462
SNP_P4_188105_1124	NW_004519709.1	Scaffold5739	1124	CC	TT	1947058464
SNP_P4_188106_1172	NW_004519709.1	Scaffold5739	1172	CC	TT	1947058466
SNP_P4_188107_203	NW_004519710.1	Scaffold5740	203	CC	TT	1947058469
SNP_P4_188108_1187	NW_004519712.1	Scaffold5742	1187	GG	AA	1947058471
SNP_P4_188109_1250	NW_004519712.1	Scaffold5742	1250	AA	GG	1947058473
SNP_P4_188110_1519	NW_004519713.1	Scaffold5744	1519	TT	CC	1947058475
SNP_P4_188111_1886	NW_004519713.1	Scaffold5744	1886	TT	CC	1947058477
SNP_P4_188112_3187	NW_004519713.1	Scaffold5744	3187	CC	TT	1947058479
SNP_P4_188113_3297	NW_004519713.1	Scaffold5744	3297	CC	GG	1947058481
SNP_P4_188114_3326	NW_004519713.1	Scaffold5744	3326	AA	TT	1947058483
SNP_P4_188115_3391	NW_004519713.1	Scaffold5744	3391	CC	TT	1947058485
SNP_P4_188116_3433	NW_004519713.1	Scaffold5744	3433	CC	TT	1947058487
SNP_P4_188117_15423	NW_004519713.1	Scaffold5744	15423	AA	GG	1947058489
SNP_P4_188118_15497	NW_004519713.1	Scaffold5744	15497	GG	CC	1947058491
SNP_P4_188119_15515	NW_004519713.1	Scaffold5744	15515	AA	TT	1947058493
SNP_P4_188120_15629	NW_004519713.1	Scaffold5744	15629	CC	TT	1947058495
SNP_P4_188121_15698	NW_004519713.1	Scaffold5744	15698	TT	AA	1947058497
SNP_P4_188122_16007	NW_004519713.1	Scaffold5744	16007	AA	CC	1947058499
SNP_P4_188123_17325	NW_004519713.1	Scaffold5744	17325	CC	GG	1947058501
SNP_P4_188124_17696	NW_004519713.1	Scaffold5744	17696	TT	AA	1947058503
SNP_P4_188125_17774	NW_004519713.1	Scaffold5744	17774	GG	CC	1947058505
SNP_P4_188126_17793	NW_004519713.1	Scaffold5744	17793	CC	TT	1947058507
SNP_P4_188127_17808	NW_004519713.1	Scaffold5744	17808	GG	CC	1947058509
SNP_P4_188128_17838	NW_004519713.1	Scaffold5744	17838	TT	CC	1947058511
SNP_P4_188129_17853	NW_004519713.1	Scaffold5744	17853	TT	CC	1947058513
SNP_P4_188130_17858	NW_004519713.1	Scaffold5744	17858	TT	CC	1947058515
SNP_P4_188131_17874	NW_004519713.1	Scaffold5744	17874	GG	AA	1947058517
SNP_P4_188132_18064	NW_004519713.1	Scaffold5744	18064	TT	CC	1947058519
SNP_P4_188133_18088	NW_004519713.1	Scaffold5744	18088	GG	TT	1947058521
SNP_P4_188134_18174	NW_004519713.1	Scaffold5744	18174	GG	TT	1947058523
SNP_P4_188135_18227	NW_004519713.1	Scaffold5744	18227	TT	CC	1947058525
SNP_P4_188136_18248	NW_004519713.1	Scaffold5744	18248	GG	TT	1947058527
SNP_P4_188137_18297	NW_004519713.1	Scaffold5744	18297	GG	AA	1947058529
SNP_P4_188138_320	NW_004519715.1	Scaffold5746	320	AA	GG	1947058531
SNP_P4_188139_388	NW_004519715.1	Scaffold5746	388	TT	CC	1947058533

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SNP_P4_188140_450	NW_004519715.1	Scaffold5746	450	GG	CC	1947058535
SNP_P4_188141_656	NW_004519715.1	Scaffold5746	656	CC	GG	1947058537
SNP_P4_188142_728	NW_004519715.1	Scaffold5746	728	CC	GG	1947058539
SNP_P4_188143_1304	NW_004519715.1	Scaffold5746	1304	TT	GG	1947058541
SNP_P4_188144_1601	NW_004519715.1	Scaffold5746	1601	AA	GG	1947058543
SNP_P4_188145_1712	NW_004519715.1	Scaffold5746	1712	GG	AA	1947058545
SNP_P4_188146_1724	NW_004519715.1	Scaffold5746	1724	AA	TT	1947058547
SNP_P4_188147_1877	NW_004519715.1	Scaffold5746	1877	GG	AA	1947058549
SNP_P4_188148_1907	NW_004519715.1	Scaffold5746	1907	AA	CC	1947058551
SNP_P4_188149_2046	NW_004519715.1	Scaffold5746	2046	AA	CC	1947058553
SNP_P4_188150_95	NW_004519722.1	Scaffold5758	95	AA	CC	1947058555
SNP_P4_188151_279	NW_004519722.1	Scaffold5758	279	TT	CC	1947058557
SNP_P4_188152_473	NW_004519722.1	Scaffold5758	473	GG	CC	1947058559
SNP_P4_188153_833	NW_004519722.1	Scaffold5758	833	TT	GG	1947058561
SNP_P4_188154_1162	NW_004519722.1	Scaffold5758	1162	CC	TT	1947058563
SNP_P4_188155_71	NW_004519723.1	Scaffold5759	71	AA	CC	1947058565
SNP_P4_188156_118	NW_004519723.1	Scaffold5759	118	CC	TT	1947058566
SNP_P4_188157_532	NW_004519723.1	Scaffold5759	532	GG	TT	1947058567
SNP_P4_188158_622	NW_004519723.1	Scaffold5759	622	AA	GG	1947058568
SNP_P4_188160_857	NW_004519724.1	Scaffold5761	857	CC	AA	1947058570
SNP_P4_188161_1005	NW_004519724.1	Scaffold5761	1005	TT	AA	1947058572
SNP_P4_188163_1224	NW_004519724.1	Scaffold5761	1224	AA	CC	1947058574
SNP_P4_188164_1677	NW_004519724.1	Scaffold5761	1677	AA	CC	1947058576
SNP_P4_188165_1798	NW_004519724.1	Scaffold5761	1798	GG	AA	1947058578
SNP_P4_188166_6875	NW_004519724.1	Scaffold5761	6875	GG	CC	1947058580
SNP_P4_188167_6985	NW_004519724.1	Scaffold5761	6985	TT	GG	1947058582
SNP_P4_188168_322	NW_004519727.1	Scaffold5765	322	GG	AA	1947058584
SNP_P4_188169_458	NW_004519727.1	Scaffold5765	458	TT	AA	1947058586
SNP_P4_188170_805	NW_004519727.1	Scaffold5765	805	GG	AA	1947058588
SNP_P4_188172_2177	NW_004519728.1	Scaffold5766	2177	TT	GG	1947058590
SNP_P4_188173_2178	NW_004519728.1	Scaffold5766	2178	GG	TT	1947058592
SNP_P4_188174_1154	NW_004519729.1	Scaffold5767	1154	GG	CC	1947058594
SNP_P4_188175_1175	NW_004519729.1	Scaffold5767	1175	AA	TT	1947058596
SNP_P4_188176_189	NW_004519731.1	Scaffold5775	189	AA	GG	1947058599
SNP_P4_188177_287	NW_004519731.1	Scaffold5775	287	TT	AA	1947058602
SNP_P4_188178_465	NW_004519731.1	Scaffold5775	465	AA	TT	1947058604
SNP_P4_188179_1022	NW_004519731.1	Scaffold5775	1022	TT	AA	1947058606
SNP_P4_188180_1031	NW_004519731.1	Scaffold5775	1031	GG	CC	1947058608
SNP_P4_188181_1077	NW_004519731.1	Scaffold5775	1077	TT	AA	1947058610
SNP_P4_188182_1122	NW_004519731.1	Scaffold5775	1122	CC	TT	1947058612
SNP_P4_188183_1132	NW_004519731.1	Scaffold5775	1132	TT	CC	1947058614
SNP_P4_188184_1192	NW_004519731.1	Scaffold5775	1192	CC	TT	1947058616

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_188186_2860	NW_004519733.1	Scaffold5777	2860	AA	CC	1947058620
SNP_P4_188187_2892	NW_004519733.1	Scaffold5777	2892	AA	TT	1947058622
SNP_P4_188188_2974	NW_004519733.1	Scaffold5777	2974	TT	CC	1947058624
SNP_P4_188189_3249	NW_004519733.1	Scaffold5777	3249	GG	AA	1947058626
SNP_P4_188190_3289	NW_004519733.1	Scaffold5777	3289	GG	TT	1947058628
SNP_P4_188191_7598	NW_004519733.1	Scaffold5777	7598	CC	TT	1947058630
SNP_P4_188192_7628	NW_004519733.1	Scaffold5777	7628	GG	AA	1947058632
SNP_P4_188193_7826	NW_004519733.1	Scaffold5777	7826	TT	CC	1947058634
SNP_P4_188194_7831	NW_004519733.1	Scaffold5777	7831	CC	TT	1947058637
SNP_P4_188195_7891	NW_004519733.1	Scaffold5777	7891	AA	GG	1947058639
SNP_P4_188196_7908	NW_004519733.1	Scaffold5777	7908	CC	TT	1947058641
SNP_P4_188197_8030	NW_004519733.1	Scaffold5777	8030	TT	CC	1947058643
SNP_P4_188198_8355	NW_004519733.1	Scaffold5777	8355	TT	CC	1947058645
SNP_P4_188199_8504	NW_004519733.1	Scaffold5777	8504	TT	GG	1947058647
SNP_P4_188200_8911	NW_004519733.1	Scaffold5777	8911	CC	TT	1947058649
SNP_P4_188201_8934	NW_004519733.1	Scaffold5777	8934	TT	CC	1947058651
SNP_P4_188202_9122	NW_004519733.1	Scaffold5777	9122	CC	TT	1947058653
SNP_P4_188203_9240	NW_004519733.1	Scaffold5777	9240	AA	GG	1947058655
SNP_P4_188204_9258	NW_004519733.1	Scaffold5777	9258	CC	TT	1947058657
SNP_P4_188205_10039	NW_004519733.1	Scaffold5777	10039	TT	CC	1947058659
SNP_P4_188206_10070	NW_004519733.1	Scaffold5777	10070	TT	GG	1947058661
SNP_P4_188207_10130	NW_004519733.1	Scaffold5777	10130	TT	AA	1947058663
SNP_P4_188208_10143	NW_004519733.1	Scaffold5777	10143	CC	TT	1947058665
SNP_P4_188209_10249	NW_004519733.1	Scaffold5777	10249	TT	GG	1947058667
SNP_P4_188211_16532	NW_004519733.1	Scaffold5777	16532	GG	CC	1947058669
SNP_P4_188213_16798	NW_004519733.1	Scaffold5777	16798	TT	AA	1947058671
SNP_P4_188214_17078	NW_004519733.1	Scaffold5777	17078	CC	TT	1947058673
SNP_P4_188215_17165	NW_004519733.1	Scaffold5777	17165	TT	CC	1947058675
SNP_P4_188216_2715	NW_004519735.1	Scaffold5780	2715	TT	CC	1947058677
SNP_P4_188217_2796	NW_004519735.1	Scaffold5780	2796	CC	TT	1947058679
SNP_P4_188218_2849	NW_004519735.1	Scaffold5780	2849	CC	AA	1947058681
SNP_P4_188220_2923	NW_004519735.1	Scaffold5780	2923	GG	AA	1947058683
SNP_P4_188221_3008	NW_004519735.1	Scaffold5780	3008	TT	AA	1947058685
SNP_P4_188222_3023	NW_004519735.1	Scaffold5780	3023	AA	TT	1947058687
SNP_P4_188223_3039	NW_004519735.1	Scaffold5780	3039	TT	CC	1947058689
SNP_P4_188224_3170	NW_004519735.1	Scaffold5780	3170	GG	AA	1947058691
SNP_P4_188225_3234	NW_004519735.1	Scaffold5780	3234	GG	TT	1947058693
SNP_P4_188226_3286	NW_004519735.1	Scaffold5780	3286	TT	GG	1947058695
SNP_P4_188227_3357	NW_004519735.1	Scaffold5780	3357	TT	CC	1947058697
SNP_P4_188228_3699	NW_004519735.1	Scaffold5780	3699	TT	GG	1947058699
SNP_P4_188229_4549	NW_004519735.1	Scaffold5780	4549	GG	AA	1947058701

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_188230_4574	NW_004519735.1	Scaffold5780	4574	GG	AA	1947058703
SNP_P4_188231_4792	NW_004519735.1	Scaffold5780	4792	AA	GG	1947058705
SNP_P4_188232_4990	NW_004519735.1	Scaffold5780	4990	AA	GG	1947058707
SNP_P4_188233_5013	NW_004519735.1	Scaffold5780	5013	GG	AA	1947058709
SNP_P4_188234_5022	NW_004519735.1	Scaffold5780	5022	CC	TT	1947058711
SNP_P4_188235_5223	NW_004519735.1	Scaffold5780	5223	TT	CC	1947058713
SNP_P4_188236_5230	NW_004519735.1	Scaffold5780	5230	AA	GG	1947058715
SNP_P4_188237_5344	NW_004519735.1	Scaffold5780	5344	AA	GG	1947058717
SNP_P4_188240_5505	NW_004519735.1	Scaffold5780	5505	AA	TT	1947058719
SNP_P4_188241_5506	NW_004519735.1	Scaffold5780	5506	AA	CC	1947058721
SNP_P4_188242_5564	NW_004519735.1	Scaffold5780	5564	GG	TT	1947058723
SNP_P4_188243_5649	NW_004519735.1	Scaffold5780	5649	TT	CC	1947058725
SNP_P4_188244_5663	NW_004519735.1	Scaffold5780	5663	GG	AA	1947058727
SNP_P4_188245_5673	NW_004519735.1	Scaffold5780	5673	AA	GG	1947058729
SNP_P4_188246_5680	NW_004519735.1	Scaffold5780	5680	TT	CC	1947058731
SNP_P4_188247_5689	NW_004519735.1	Scaffold5780	5689	TT	CC	1947058733
SNP_P4_188248_5690	NW_004519735.1	Scaffold5780	5690	GG	AA	1947058736
SNP_P4_188249_5726	NW_004519735.1	Scaffold5780	5726	CC	AA	1947058738
SNP_P4_188250_5731	NW_004519735.1	Scaffold5780	5731	AA	GG	1947058740
SNP_P4_188251_5733	NW_004519735.1	Scaffold5780	5733	AA	TT	1947058742
SNP_P4_188252_5746	NW_004519735.1	Scaffold5780	5746	TT	GG	1947058744
SNP_P4_188253_5852	NW_004519735.1	Scaffold5780	5852	AA	GG	1947058746
SNP_P4_188254_6033	NW_004519735.1	Scaffold5780	6033	TT	CC	1947058748
SNP_P4_188255_6098	NW_004519735.1	Scaffold5780	6098	GG	AA	1947058750
SNP_P4_188256_6100	NW_004519735.1	Scaffold5780	6100	GG	TT	1947058752
SNP_P4_188257_6142	NW_004519735.1	Scaffold5780	6142	GG	AA	1947058754
SNP_P4_188258_6195	NW_004519735.1	Scaffold5780	6195	AA	GG	1947058756
SNP_P4_188259_6288	NW_004519735.1	Scaffold5780	6288	AA	GG	1947058758
SNP_P4_188260_6292	NW_004519735.1	Scaffold5780	6292	TT	CC	1947058760
SNP_P4_188261_6308	NW_004519735.1	Scaffold5780	6308	TT	CC	1947058762
SNP_P4_188262_6315	NW_004519735.1	Scaffold5780	6315	AA	GG	1947058764
SNP_P4_188263_6515	NW_004519735.1	Scaffold5780	6515	AA	TT	1947058767
SNP_P4_188264_6516	NW_004519735.1	Scaffold5780	6516	TT	CC	1947058769
SNP_P4_188265_6662	NW_004519735.1	Scaffold5780	6662	TT	GG	1947058771
SNP_P4_188266_6692	NW_004519735.1	Scaffold5780	6692	CC	TT	1947058773
SNP_P4_188267_6694	NW_004519735.1	Scaffold5780	6694	TT	CC	1947058775
SNP_P4_188268_6721	NW_004519735.1	Scaffold5780	6721	GG	AA	1947058777
SNP_P4_188269_6736	NW_004519735.1	Scaffold5780	6736	GG	AA	1947058779
SNP_P4_188270_8686	NW_004519735.1	Scaffold5780	8686	CC	TT	1947058781
SNP_P4_188271_8727	NW_004519735.1	Scaffold5780	8727	CC	AA	1947058783
SNP_P4_188273_8753	NW_004519735.1	Scaffold5780	8753	GG	AA	1947058785
SNP_P4_188274_8916	NW_004519735.1	Scaffold5780	8916	AA	GG	1947058787

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_188276_8984	NW_004519735.1	Scaffold5780	8984	GG	AA	1947058791
SNP_P4_188278_9464	NW_004519735.1	Scaffold5780	9464	TT	AA	1947058794
SNP_P4_188279_9651	NW_004519735.1	Scaffold5780	9651	CC	GG	1947058796
SNP_P4_188280_9668	NW_004519735.1	Scaffold5780	9668	TT	CC	1947058798
SNP_P4_188281_9834	NW_004519735.1	Scaffold5780	9834	TT	CC	1947058800
SNP_P4_188282_9976	NW_004519735.1	Scaffold5780	9976	GG	TT	1947058802
SNP_P4_188283_9990	NW_004519735.1	Scaffold5780	9990	AA	CC	1947058804
SNP_P4_188284_10024	NW_004519735.1	Scaffold5780	10024	TT	CC	1947058806
SNP_P4_188285_10128	NW_004519735.1	Scaffold5780	10128	CC	TT	1947058808
SNP_P4_188286_10130	NW_004519735.1	Scaffold5780	10130	GG	AA	1947058810
SNP_P4_188287_10333	NW_004519735.1	Scaffold5780	10333	AA	CC	1947058812
SNP_P4_188288_10359	NW_004519735.1	Scaffold5780	10359	CC	TT	1947058814
SNP_P4_188289_10600	NW_004519735.1	Scaffold5780	10600	TT	CC	1947058816
SNP_P4_188290_10773	NW_004519735.1	Scaffold5780	10773	GG	AA	1947058818
SNP_P4_188291_10910	NW_004519735.1	Scaffold5780	10910	CC	TT	1947058820
SNP_P4_188292_11020	NW_004519735.1	Scaffold5780	11020	AA	GG	1947058822
SNP_P4_188293_17043	NW_004519735.1	Scaffold5780	17043	CC	TT	1947058824
SNP_P4_188294_17050	NW_004519735.1	Scaffold5780	17050	CC	TT	1947058826
SNP_P4_188295_17281	NW_004519735.1	Scaffold5780	17281	TT	CC	1947058828
SNP_P4_188296_19111	NW_004519735.1	Scaffold5780	19111	TT	AA	1947058830
SNP_P4_188297_2167	NW_004519736.1	Scaffold5781	2167	AA	TT	1947058832
SNP_P4_188298_2566	NW_004519736.1	Scaffold5781	2566	CC	TT	1947058834
SNP_P4_188299_3027	NW_004519736.1	Scaffold5781	3027	TT	CC	1947058836
SNP_P4_188300_3050	NW_004519736.1	Scaffold5781	3050	AA	GG	1947058838
SNP_P4_188301_3113	NW_004519736.1	Scaffold5781	3113	CC	GG	1947058840
SNP_P4_188302_3189	NW_004519736.1	Scaffold5781	3189	CC	TT	1947058842
SNP_P4_188303_3354	NW_004519736.1	Scaffold5781	3354	AA	GG	1947058844
SNP_P4_188304_3430	NW_004519736.1	Scaffold5781	3430	AA	GG	1947058846
SNP_P4_188305_3522	NW_004519736.1	Scaffold5781	3522	GG	AA	1947058848
SNP_P4_188306_3544	NW_004519736.1	Scaffold5781	3544	AA	TT	1947058850
SNP_P4_188307_3631	NW_004519736.1	Scaffold5781	3631	GG	TT	1947058852
SNP_P4_188308_3911	NW_004519736.1	Scaffold5781	3911	TT	CC	1947058854
SNP_P4_188309_4015	NW_004519736.1	Scaffold5781	4015	AA	TT	1947058856
SNP_P4_188310_8902	NW_004519736.1	Scaffold5781	8902	TT	AA	1947058858
SNP_P4_188311_8915	NW_004519736.1	Scaffold5781	8915	CC	GG	1947058860
SNP_P4_188312_12151	NW_004519736.1	Scaffold5781	12151	CC	TT	1947058862
SNP_P4_188313_12653	NW_004519736.1	Scaffold5781	12653	GG	AA	1947058864
SNP_P4_188314_12828	NW_004519736.1	Scaffold5781	12828	TT	CC	1947058866
SNP_P4_188315_274	NW_004519737.1	Scaffold5782	274	TT	GG	1947058868
SNP_P4_188316_324	NW_004519737.1	Scaffold5782	324	AA	GG	1947058870
SNP_P4_188317_329	NW_004519737.1	Scaffold5782	329	GG	CC	1947058872

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_188319_755	NW_004519737.1	Scaffold5782	755	TT	CC	1947058876
SNP_P4_188320_847	NW_004519737.1	Scaffold5782	847	TT	GG	1947058878
SNP_P4_188321_1046	NW_004519737.1	Scaffold5782	1046	AA	GG	1947058880
SNP_P4_188322_1058	NW_004519737.1	Scaffold5782	1058	TT	AA	1947058882
SNP_P4_188323_1221	NW_004519738.1	Scaffold5783	1221	CC	GG	1947058884
SNP_P4_188324_1271	NW_004519738.1	Scaffold5783	1271	CC	TT	1947058886
SNP_P4_188325_1332	NW_004519738.1	Scaffold5783	1332	AA	GG	1947058888
SNP_P4_188326_1597	NW_004519738.1	Scaffold5783	1597	TT	CC	1947058890
SNP_P4_188327_2441	NW_004519738.1	Scaffold5783	2441	AA	TT	1947058892
SNP_P4_188328_1378	NW_004519740.1	Scaffold5788	1378	CC	TT	1947058894
SNP_P4_188329_1653	NW_004519740.1	Scaffold5788	1653	GG	TT	1947058896
SNP_P4_188330_1901	NW_004519740.1	Scaffold5788	1901	TT	AA	1947058898
SNP_P4_188331_1949	NW_004519740.1	Scaffold5788	1949	GG	CC	1947058900
SNP_P4_188332_1978	NW_004519740.1	Scaffold5788	1978	GG	AA	1947058903
SNP_P4_188333_16845	NW_004519744.1	Scaffold5792	16845	TT	CC	1947058905
SNP_P4_188334_29384	NW_004519744.1	Scaffold5792	29384	AA	GG	1947058907
SNP_P4_188335_31515	NW_004519744.1	Scaffold5792	31515	AA	CC	1947058909
SNP_P4_188337_92343	NW_004519744.1	Scaffold5792	92343	GG	AA	1947058911
SNP_P4_188338_105435	NW_004519744.1	Scaffold5792	105435	AA	TT	1947058913
SNP_P4_188339_5880	NW_004519746.1	Scaffold5794	5880	AA	GG	1947058915
SNP_P4_188340_5888	NW_004519746.1	Scaffold5794	5888	AA	TT	1947058917
SNP_P4_188341_5956	NW_004519746.1	Scaffold5794	5956	TT	AA	1947058919
SNP_P4_188342_8247	NW_004519746.1	Scaffold5794	8247	AA	TT	1947058921
SNP_P4_188343_8397	NW_004519746.1	Scaffold5794	8397	AA	TT	1947058923
SNP_P4_188344_8481	NW_004519746.1	Scaffold5794	8481	TT	AA	1947058925
SNP_P4_188345_8638	NW_004519746.1	Scaffold5794	8638	CC	GG	1947058927
SNP_P4_188346_8707	NW_004519746.1	Scaffold5794	8707	CC	GG	1947058929
SNP_P4_188347_1042	NW_004519747.1	Scaffold5795	1042	TT	CC	1947058931
SNP_P4_188348_1440	NW_004519747.1	Scaffold5795	1440	CC	AA	1947058933
SNP_P4_188349_1446	NW_004519747.1	Scaffold5795	1446	CC	TT	1947058935
SNP_P4_188350_1519	NW_004519747.1	Scaffold5795	1519	GG	AA	1947058937
SNP_P4_188351_1520	NW_004519747.1	Scaffold5795	1520	CC	TT	1947058939
SNP_P4_188352_1801	NW_004519747.1	Scaffold5795	1801	TT	CC	1947058941
SNP_P4_188353_5474	NW_004519749.1	Scaffold5797	5474	CC	TT	1947058943
SNP_P4_188354_5480	NW_004519749.1	Scaffold5797	5480	TT	GG	1947058945
SNP_P4_188355_5488	NW_004519749.1	Scaffold5797	5488	AA	GG	1947058947
SNP_P4_188356_5514	NW_004519749.1	Scaffold5797	5514	CC	TT	1947058949
SNP_P4_188357_5631	NW_004519749.1	Scaffold5797	5631	AA	TT	1947058951
SNP_P4_188358_5709	NW_004519749.1	Scaffold5797	5709	CC	AA	1947058953
SNP_P4_188359_5778	NW_004519749.1	Scaffold5797	5778	AA	CC	1947058955
SNP_P4_188360_6000	NW_004519749.1	Scaffold5797	6000	AA	GG	1947058957

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_188362_8932	NW_004519749.1	Scaffold5797	8932	CC	TT	1947058961
SNP_P4_188363_8947	NW_004519749.1	Scaffold5797	8947	CC	TT	1947058963
SNP_P4_188364_9015	NW_004519749.1	Scaffold5797	9015	CC	TT	1947058965
SNP_P4_188365_9017	NW_004519749.1	Scaffold5797	9017	GG	TT	1947058967
SNP_P4_188366_9020	NW_004519749.1	Scaffold5797	9020	GG	CC	1947058969
SNP_P4_188367_9069	NW_004519749.1	Scaffold5797	9069	AA	GG	1947058971
SNP_P4_188368_9086	NW_004519749.1	Scaffold5797	9086	GG	CC	1947058973
SNP_P4_188369_9113	NW_004519749.1	Scaffold5797	9113	AA	CC	1947058975
SNP_P4_188370_9162	NW_004519749.1	Scaffold5797	9162	AA	CC	1947058977
SNP_P4_188371_9219	NW_004519749.1	Scaffold5797	9219	GG	AA	1947058979
SNP_P4_188372_9268	NW_004519749.1	Scaffold5797	9268	CC	TT	1947058981
SNP_P4_188373_9549	NW_004519749.1	Scaffold5797	9549	AA	CC	1947058982
SNP_P4_188374_9557	NW_004519749.1	Scaffold5797	9557	TT	AA	1947058984
SNP_P4_188375_9788	NW_004519749.1	Scaffold5797	9788	GG	TT	1947058986
SNP_P4_188376_9792	NW_004519749.1	Scaffold5797	9792	TT	CC	1947058988
SNP_P4_188377_9814	NW_004519749.1	Scaffold5797	9814	GG	AA	1947058990
SNP_P4_188378_9819	NW_004519749.1	Scaffold5797	9819	TT	CC	1947058992
SNP_P4_188379_9820	NW_004519749.1	Scaffold5797	9820	TT	CC	1947058994
SNP_P4_188380_338	NW_004519750.1	Scaffold5801	338	GG	AA	1947058997
SNP_P4_188381_361	NW_004519750.1	Scaffold5801	361	GG	AA	1947058999
SNP_P4_188382_492	NW_004519750.1	Scaffold5801	492	TT	CC	1947059001
SNP_P4_188383_591	NW_004519750.1	Scaffold5801	591	AA	CC	1947059003
SNP_P4_188384_812	NW_004519750.1	Scaffold5801	812	GG	AA	1947059005
SNP_P4_188386_1038	NW_004519750.1	Scaffold5801	1038	TT	CC	1947059007
SNP_P4_188387_1043	NW_004519750.1	Scaffold5801	1043	AA	CC	1947059009
SNP_P4_188388_2011	NW_004519750.1	Scaffold5801	2011	TT	CC	1947059011
SNP_P4_188389_2212	NW_004519750.1	Scaffold5801	2212	TT	AA	1947059013
SNP_P4_188390_2332	NW_004519750.1	Scaffold5801	2332	GG	AA	1947059015
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SNP_P4_188395_6570	NW_004519755.1	Scaffold5812	6570	GG	AA	1947059023
SNP_P4_188396_18430	NW_004519755.1	Scaffold5812	18430	TT	CC	1947059025
SNP_P4_188397_18464	NW_004519755.1	Scaffold5812	18464	TT	CC	1947059027
SNP_P4_188398_18466	NW_004519755.1	Scaffold5812	18466	TT	CC	1947059029
SNP_P4_188399_30214	NW_004519755.1	Scaffold5812	30214	TT	AA	1947059031
SNP_P4_188400_30506	NW_004519755.1	Scaffold5812	30506	GG	AA	1947059033
SNP_P4_188401_30515	NW_004519755.1	Scaffold5812	30515	AA	GG	1947059035
SNP_P4_188402_30618	NW_004519755.1	Scaffold5812	30618	CC	AA	1947059037
SNP_P4_188403_45382	NW_004519755.1	Scaffold5812	45382	AA	GG	1947059039
SNP_P4_188404_45404	NW_004519755.1	Scaffold5812	45404	TT	CC	1947059041

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_188407_45804	NW_004519755.1	Scaffold5812	45804	TT	CC	1947059047
SNP_P4_188408_46770	NW_004519755.1	Scaffold5812	46770	TT	AA	1947059049
SNP_P4_188409_46773	NW_004519755.1	Scaffold5812	46773	AA	TT	1947059052
SNP_P4_188410_46784	NW_004519755.1	Scaffold5812	46784	GG	AA	1947059054
SNP_P4_188411_64	NW_004519756.1	Scaffold5813	64	CC	TT	1947059056
SNP_P4_188412_73	NW_004519756.1	Scaffold5813	73	TT	AA	1947059058
SNP_P4_188413_2756	NW_004519756.1	Scaffold5813	2756	GG	TT	1947059060
SNP_P4_188414_2776	NW_004519756.1	Scaffold5813	2776	CC	AA	1947059062
SNP_P4_188415_2955	NW_004519756.1	Scaffold5813	2955	AA	CC	1947059064
SNP_P4_188416_4017	NW_004519756.1	Scaffold5813	4017	CC	AA	1947059066
SNP_P4_188417_4509	NW_004519756.1	Scaffold5813	4509	AA	CC	1947059068
SNP_P4_188418_972	NW_004519758.1	Scaffold5815	972	GG	AA	1947059070
SNP_P4_188419_973	NW_004519758.1	Scaffold5815	973	GG	AA	1947059072
SNP_P4_188420_1121	NW_004519758.1	Scaffold5815	1121	AA	GG	1947059074
SNP_P4_188421_1220	NW_004519758.1	Scaffold5815	1220	AA	GG	1947059076
SNP_P4_188422_1446	NW_004519758.1	Scaffold5815	1446	CC	AA	1947059078
SNP_P4_188423_1448	NW_004519758.1	Scaffold5815	1448	TT	AA	1947059080
SNP_P4_188424_1457	NW_004519758.1	Scaffold5815	1457	AA	TT	1947059082
SNP_P4_188425_1458	NW_004519758.1	Scaffold5815	1458	CC	AA	1947059084
SNP_P4_188426_1466	NW_004519758.1	Scaffold5815	1466	AA	CC	1947059086
SNP_P4_188427_1550	NW_004519758.1	Scaffold5815	1550	CC	GG	1947059088
SNP_P4_188428_1798	NW_004519758.1	Scaffold5815	1798	AA	GG	1947059090
SNP_P4_188429_2988	NW_004519758.1	Scaffold5815	2988	CC	TT	1947059092
SNP_P4_188430_3339	NW_004519758.1	Scaffold5815	3339	TT	GG	1947059094
SNP_P4_188431_3435	NW_004519758.1	Scaffold5815	3435	AA	TT	1947059096
SNP_P4_188432_3620	NW_004519758.1	Scaffold5815	3620	CC	AA	1947059097
SNP_P4_188433_3625	NW_004519758.1	Scaffold5815	3625	CC	AA	1947059098
SNP_P4_188434_3627	NW_004519758.1	Scaffold5815	3627	TT	CC	1947059099
SNP_P4_188435_3632	NW_004519758.1	Scaffold5815	3632	AA	TT	1947059100
SNP_P4_188437_5165	NW_004519759.1	Scaffold5816	5165	GG	CC	1947059101
SNP_P4_188438_5312	NW_004519759.1	Scaffold5816	5312	GG	TT	1947059102
SNP_P4_188439_5316	NW_004519759.1	Scaffold5816	5316	CC	TT	1947059104
SNP_P4_188440_5548	NW_004519759.1	Scaffold5816	5548	CC	TT	1947059106
SNP_P4_188441_6779	NW_004519759.1	Scaffold5816	6779	GG	TT	1947059108
SNP_P4_188442_6784	NW_004519759.1	Scaffold5816	6784	AA	TT	1947059110
SNP_P4_188443_6808	NW_004519759.1	Scaffold5816	6808	CC	TT	1947059112
SNP_P4_188444_6826	NW_004519759.1	Scaffold5816	6826	TT	AA	1947059114
SNP_P4_188445_892	NW_004519760.1	Scaffold5817	892	AA	GG	1947059116
SNP_P4_188446_992	NW_004519760.1	Scaffold5817	992	TT	AA	1947059118
SNP_P4_188447_69	NW_004519764.1	Scaffold5823	69	CC	TT	1947059120

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_188449_339	NW_004519764.1	Scaffold5823	339	GG	TT	1947059124
SNP_P4_188450_552	NW_004519764.1	Scaffold5823	552	AA	TT	1947059126
SNP_P4_188451_624	NW_004519764.1	Scaffold5823	624	CC	TT	1947059128
SNP_P4_188453_1316	NW_004519764.1	Scaffold5823	1316	CC	TT	1947059130
SNP_P4_188454_1529	NW_004519764.1	Scaffold5823	1529	AA	GG	1947059132
SNP_P4_188455_1534	NW_004519764.1	Scaffold5823	1534	AA	TT	1947059134
SNP_P4_188456_1542	NW_004519764.1	Scaffold5823	1542	CC	GG	1947059136
SNP_P4_188457_1544	NW_004519764.1	Scaffold5823	1544	AA	CC	1947059138
SNP_P4_188458_1050	NW_004519765.1	Scaffold5824	1050	AA	GG	1947059140
SNP_P4_188459_1094	NW_004519765.1	Scaffold5824	1094	CC	TT	1947059142
SNP_P4_188460_1294	NW_004519771.1	Scaffold5830	1294	AA	GG	1947059144
SNP_P4_188461_671	NW_004519772.1	Scaffold5831	671	CC	AA	1947059146
SNP_P4_188462_708	NW_004519772.1	Scaffold5831	708	GG	CC	1947059148
SNP_P4_188463_729	NW_004519772.1	Scaffold5831	729	TT	AA	1947059150
SNP_P4_188464_5747	NW_004519778.1	Scaffold5839	5747	TT	AA	1947059152
SNP_P4_188465_6976	NW_004519778.1	Scaffold5839	6976	GG	TT	1947059154
SNP_P4_188466_6979	NW_004519778.1	Scaffold5839	6979	TT	AA	1947059156
SNP_P4_188467_6989	NW_004519778.1	Scaffold5839	6989	TT	AA	1947059158
SNP_P4_188468_7403	NW_004519778.1	Scaffold5839	7403	GG	TT	1947059160
SNP_P4_188469_7409	NW_004519778.1	Scaffold5839	7409	GG	AA	1947059163
SNP_P4_188471_7720	NW_004519778.1	Scaffold5839	7720	TT	GG	1947059165
SNP_P4_188472_7743	NW_004519778.1	Scaffold5839	7743	TT	CC	1947059167
SNP_P4_188473_7747	NW_004519778.1	Scaffold5839	7747	AA	TT	1947059169
SNP_P4_188474_7791	NW_004519778.1	Scaffold5839	7791	CC	AA	1947059171
SNP_P4_188475_7807	NW_004519778.1	Scaffold5839	7807	AA	CC	1947059173
SNP_P4_188476_7822	NW_004519778.1	Scaffold5839	7822	TT	AA	1947059175
SNP_P4_188477_7823	NW_004519778.1	Scaffold5839	7823	TT	AA	1947059177
SNP_P4_188478_7849	NW_004519778.1	Scaffold5839	7849	CC	TT	1947059179
SNP_P4_188479_7859	NW_004519778.1	Scaffold5839	7859	AA	GG	1947059181
SNP_P4_188480_7898	NW_004519778.1	Scaffold5839	7898	AA	GG	1947059183
SNP_P4_188481_7914	NW_004519778.1	Scaffold5839	7914	TT	GG	1947059185
SNP_P4_188482_7925	NW_004519778.1	Scaffold5839	7925	CC	GG	1947059187
SNP_P4_188483_7975	NW_004519778.1	Scaffold5839	7975	TT	GG	1947059189
SNP_P4_188484_8009	NW_004519778.1	Scaffold5839	8009	GG	AA	1947059191
SNP_P4_188485_8025	NW_004519778.1	Scaffold5839	8025	GG	TT	1947059193
SNP_P4_188486_8047	NW_004519778.1	Scaffold5839	8047	AA	TT	1947059195
SNP_P4_188487_8145	NW_004519778.1	Scaffold5839	8145	AA	GG	1947059197
SNP_P4_188488_8192	NW_004519778.1	Scaffold5839	8192	GG	AA	1947059199
SNP_P4_188489_8284	NW_004519778.1	Scaffold5839	8284	TT	CC	1947059201
SNP_P4_188490_8285	NW_004519778.1	Scaffold5839	8285	TT	CC	1947059203
SNP_P4_188491_8321	NW_004519778.1	Scaffold5839	8321	AA	CC	1947059205

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_188493_8333	NW_004519778.1	Scaffold5839	8333	CC	TT	1947059209
SNP_P4_188494_8375	NW_004519778.1	Scaffold5839	8375	CC	TT	1947059211
SNP_P4_188495_22688	NW_004519778.1	Scaffold5839	22688	AA	GG	1947059213
SNP_P4_188496_22714	NW_004519778.1	Scaffold5839	22714	CC	GG	1947059215
SNP_P4_188497_418	NW_004519780.1	Scaffold5841	418	CC	TT	1947059217
SNP_P4_188498_427	NW_004519780.1	Scaffold5841	427	TT	GG	1947059219
SNP_P4_188499_948	NW_004519780.1	Scaffold5841	948	CC	TT	1947059221
SNP_P4_188500_1052	NW_004519780.1	Scaffold5841	1052	AA	GG	1947059223
SNP_P4_188501_240	NW_004519782.1	Scaffold5843	240	CC	TT	1947059225
SNP_P4_188502_251	NW_004519782.1	Scaffold5843	251	AA	GG	1947059227
SNP_P4_188503_255	NW_004519782.1	Scaffold5843	255	AA	GG	1947059229
SNP_P4_188504_256	NW_004519782.1	Scaffold5843	256	CC	TT	1947059231
SNP_P4_188505_288	NW_004519782.1	Scaffold5843	288	CC	TT	1947059233
SNP_P4_188507_364	NW_004519782.1	Scaffold5843	364	GG	TT	1947059235
SNP_P4_188508_416	NW_004519782.1	Scaffold5843	416	GG	TT	1947059237
SNP_P4_188509_739	NW_004519782.1	Scaffold5843	739	AA	GG	1947059240
SNP_P4_188510_401	NW_004519795.1	Scaffold5863	401	TT	GG	1947059242
SNP_P4_188511_437	NW_004519795.1	Scaffold5863	437	TT	AA	1947059244
SNP_P4_188512_1260	NW_004519796.1	Scaffold5864	1260	TT	CC	1947059246
SNP_P4_188513_253	NW_004519797.1	Scaffold5867	253	CC	TT	1947059248
SNP_P4_188514_478	NW_004519797.1	Scaffold5867	478	GG	TT	1947059250
SNP_P4_188515_490	NW_004519797.1	Scaffold5867	490	AA	GG	1947059252
SNP_P4_188516_660	NW_004519797.1	Scaffold5867	660	CC	GG	1947059254
SNP_P4_188517_696	NW_004519797.1	Scaffold5867	696	CC	AA	1947059256
SNP_P4_188518_756	NW_004519797.1	Scaffold5867	756	AA	TT	1947059258
SNP_P4_188519_769	NW_004519797.1	Scaffold5867	769	AA	GG	1947059260
SNP_P4_188520_905	NW_004519797.1	Scaffold5867	905	TT	GG	1947059262
SNP_P4_188521_957	NW_004519797.1	Scaffold5867	957	GG	CC	1947059264
SNP_P4_188522_961	NW_004519797.1	Scaffold5867	961	TT	CC	1947059266
SNP_P4_188523_1008	NW_004519797.1	Scaffold5867	1008	GG	AA	1947059268
SNP_P4_188524_371	NW_004519798.1	Scaffold5869	371	TT	CC	1947059270
SNP_P4_188525_429	NW_004519798.1	Scaffold5869	429	AA	GG	1947059272
SNP_P4_188527_4559	NW_004519798.1	Scaffold5869	4559	CC	GG	1947059274
SNP_P4_188528_5277	NW_004519798.1	Scaffold5869	5277	GG	AA	1947059276
SNP_P4_188530_5420	NW_004519798.1	Scaffold5869	5420	GG	AA	1947059278
SNP_P4_188531_5474	NW_004519798.1	Scaffold5869	5474	GG	AA	1947059280
SNP_P4_188532_5634	NW_004519798.1	Scaffold5869	5634	GG	AA	1947059282
SNP_P4_188533_7681	NW_004519798.1	Scaffold5869	7681	GG	AA	1947059284
SNP_P4_188534_7688	NW_004519798.1	Scaffold5869	7688	GG	AA	1947059286
SNP_P4_188535_7772	NW_004519798.1	Scaffold5869	7772	AA	GG	1947059288
SNP_P4_188536_7811	NW_004519798.1	Scaffold5869	7811	GG	AA	1947059290

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_188538_7838	NW_004519798.1	Scaffold5869	7838	AA	TT	1947059294
SNP_P4_188539_7851	NW_004519798.1	Scaffold5869	7851	AA	GG	1947059296
SNP_P4_188540_7861	NW_004519798.1	Scaffold5869	7861	AA	CC	1947059298
SNP_P4_188541_8044	NW_004519798.1	Scaffold5869	8044	AA	GG	1947059300
SNP_P4_188542_8068	NW_004519798.1	Scaffold5869	8068	TT	CC	1947059302
SNP_P4_188543_8085	NW_004519798.1	Scaffold5869	8085	GG	AA	1947059304
SNP_P4_188544_8116	NW_004519798.1	Scaffold5869	8116	CC	TT	1947059306
SNP_P4_188545_8143	NW_004519798.1	Scaffold5869	8143	AA	GG	1947059308
SNP_P4_188546_8389	NW_004519798.1	Scaffold5869	8389	TT	CC	1947059310
SNP_P4_188547_12565	NW_004519798.1	Scaffold5869	12565	AA	GG	1947059312
SNP_P4_188548_12591	NW_004519798.1	Scaffold5869	12591	TT	GG	1947059314
SNP_P4_188549_17897	NW_004519798.1	Scaffold5869	17897	CC	TT	1947059316
SNP_P4_188550_17919	NW_004519798.1	Scaffold5869	17919	AA	GG	1947059318
SNP_P4_188551_17953	NW_004519798.1	Scaffold5869	17953	AA	TT	1947059320
SNP_P4_188552_18006	NW_004519798.1	Scaffold5869	18006	TT	GG	1947059323
SNP_P4_188553_18089	NW_004519798.1	Scaffold5869	18089	GG	AA	1947059325
SNP_P4_188554_18147	NW_004519798.1	Scaffold5869	18147	CC	TT	1947059327
SNP_P4_188556_18544	NW_004519798.1	Scaffold5869	18544	CC	TT	1947059329
SNP_P4_188557_18547	NW_004519798.1	Scaffold5869	18547	TT	AA	1947059331
SNP_P4_188558_380	NW_004519800.1	Scaffold5872	380	CC	AA	1947059333
SNP_P4_188559_1438	NW_004519801.1	Scaffold5873	1438	TT	AA	1947059335
SNP_P4_188560_382	NW_004519806.1	Scaffold5880	382	AA	CC	1947059337
SNP_P4_188561_824	NW_004519806.1	Scaffold5880	824	GG	AA	1947059339
SNP_P4_188562_861	NW_004519806.1	Scaffold5880	861	CC	TT	1947059341
SNP_P4_188563_895	NW_004519806.1	Scaffold5880	895	TT	CC	1947059343
SNP_P4_188564_717	NW_004519809.1	Scaffold5883	717	TT	GG	1947059345
SNP_P4_188565_726	NW_004519809.1	Scaffold5883	726	TT	CC	1947059347
SNP_P4_188566_1107	NW_004519809.1	Scaffold5883	1107	GG	CC	1947059349
SNP_P4_188567_774	NW_004519812.1	Scaffold5889	774	AA	GG	1947059351
SNP_P4_188568_814	NW_004519812.1	Scaffold5889	814	GG	AA	1947059353
SNP_P4_188569_819	NW_004519812.1	Scaffold5889	819	CC	TT	1947059355
SNP_P4_188570_827	NW_004519812.1	Scaffold5889	827	AA	TT	1947059357
SNP_P4_188571_20890	NW_004519812.1	Scaffold5889	20890	TT	CC	1947059359
SNP_P4_188572_21033	NW_004519812.1	Scaffold5889	21033	TT	GG	1947059362
SNP_P4_188573_896	NW_004519813.1	Scaffold5891	896	TT	CC	1947059364
SNP_P4_188574_4837	NW_004519813.1	Scaffold5891	4837	TT	AA	1947059366
SNP_P4_188575_4961	NW_004519813.1	Scaffold5891	4961	AA	TT	1947059368
SNP_P4_188576_4970	NW_004519813.1	Scaffold5891	4970	AA	GG	1947059370
SNP_P4_188577_4975	NW_004519813.1	Scaffold5891	4975	TT	AA	1947059372
SNP_P4_188579_5069	NW_004519813.1	Scaffold5891	5069	CC	TT	1947059374
SNP_P4_188580_5070	NW_004519813.1	Scaffold5891	5070	AA	GG	1947059376

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_188582_5178	NW_004519815.1	Scaffold5893	5178	AA	TT	1947059380
SNP_P4_188583_5252	NW_004519815.1	Scaffold5893	5252	GG	AA	1947059382
SNP_P4_188584_331	NW_004519818.1	Scaffold5898	331	TT	CC	1947059384
SNP_P4_188585_1100	NW_004519819.1	Scaffold5899	1100	AA	TT	1947059386
SNP_P4_188587_332	NW_004519820.1	Scaffold5900	332	AA	GG	1947059388
SNP_P4_188588_489	NW_004519820.1	Scaffold5900	489	TT	AA	1947059390
SNP_P4_188589_533	NW_004519820.1	Scaffold5900	533	TT	CC	1947059392
SNP_P4_188590_539	NW_004519820.1	Scaffold5900	539	AA	GG	1947059394
SNP_P4_188591_567	NW_004519820.1	Scaffold5900	567	GG	AA	1947059397
SNP_P4_188592_591	NW_004519820.1	Scaffold5900	591	AA	GG	1947059399
SNP_P4_188593_593	NW_004519820.1	Scaffold5900	593	TT	CC	1947059401
SNP_P4_188594_611	NW_004519820.1	Scaffold5900	611	CC	TT	1947059403
SNP_P4_188595_654	NW_004519820.1	Scaffold5900	654	TT	CC	1947059405
SNP_P4_188596_661	NW_004519820.1	Scaffold5900	661	AA	GG	1947059407
SNP_P4_188597_4968	NW_004519821.1	Scaffold5901	4968	TT	CC	1947059409
SNP_P4_188598_5006	NW_004519821.1	Scaffold5901	5006	TT	CC	1947059411
SNP_P4_188599_5034	NW_004519821.1	Scaffold5901	5034	GG	AA	1947059413
SNP_P4_188601_5103	NW_004519821.1	Scaffold5901	5103	GG	AA	1947059415
SNP_P4_188602_5114	NW_004519821.1	Scaffold5901	5114	CC	TT	1947059417
SNP_P4_188603_5246	NW_004519821.1	Scaffold5901	5246	GG	TT	1947059419
SNP_P4_188604_214	NW_004519823.1	Scaffold5904	214	TT	CC	1947059421
SNP_P4_188605_17254	NW_004519823.1	Scaffold5904	17254	TT	GG	1947059423
SNP_P4_188606_17295	NW_004519823.1	Scaffold5904	17295	TT	CC	1947059425
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SNP_P4_188609_17455	NW_004519823.1	Scaffold5904	17455	GG	AA	1947059429
SNP_P4_188610_17495	NW_004519823.1	Scaffold5904	17495	AA	CC	1947059431
SNP_P4_188611_17802	NW_004519823.1	Scaffold5904	17802	GG	TT	1947059433
SNP_P4_188612_17833	NW_004519823.1	Scaffold5904	17833	CC	AA	1947059435
SNP_P4_188613_17966	NW_004519823.1	Scaffold5904	17966	AA	GG	1947059437
SNP_P4_188614_22202	NW_004519823.1	Scaffold5904	22202	GG	CC	1947059439
SNP_P4_188615_22377	NW_004519823.1	Scaffold5904	22377	TT	AA	1947059441
SNP_P4_188617_22469	NW_004519823.1	Scaffold5904	22469	AA	CC	1947059443
SNP_P4_188618_22565	NW_004519823.1	Scaffold5904	22565	CC	AA	1947059445
SNP_P4_188619_22615	NW_004519823.1	Scaffold5904	22615	CC	TT	1947059447
SNP_P4_188620_22626	NW_004519823.1	Scaffold5904	22626	CC	TT	1947059449
SNP_P4_188621_23148	NW_004519823.1	Scaffold5904	23148	CC	TT	1947059451
SNP_P4_188622_23637	NW_004519823.1	Scaffold5904	23637	TT	AA	1947059453
SNP_P4_188623_2156	NW_004519826.1	Scaffold5907	2156	AA	GG	1947059455
SNP_P4_188624_1192	NW_004519827.1	Scaffold5909	1192	CC	GG	1947059457
SNP_P4_188625_2053	NW_004519827.1	Scaffold5909	2053	TT	GG	1947059459
SNP_P4_188626_2454	NW_004519827.1	Scaffold5909	2454	AA	GG	1947059461

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_188629_2512	NW_004519827.1	Scaffold5909	2512	GG	TT	1947059467
SNP_P4_188630_475	NW_004519828.1	Scaffold5912	475	AA	TT	1947059469
SNP_P4_188631_1053	NW_004519829.1	Scaffold5913	1053	GG	TT	1947059471
SNP_P4_188632_1064	NW_004519829.1	Scaffold5913	1064	TT	CC	1947059473
SNP_P4_188633_1070	NW_004519829.1	Scaffold5913	1070	TT	AA	1947059475
SNP_P4_188634_1083	NW_004519829.1	Scaffold5913	1083	CC	TT	1947059477
SNP_P4_188635_1098	NW_004519829.1	Scaffold5913	1098	GG	TT	1947059479
SNP_P4_188636_776	NW_004519830.1	Scaffold5914	776	CC	TT	1947059481
SNP_P4_188637_789	NW_004519830.1	Scaffold5914	789	AA	CC	1947059483
SNP_P4_188638_1223	NW_004519830.1	Scaffold5914	1223	AA	CC	1947059485
SNP_P4_188639_811	NW_004519832.1	Scaffold5916	811	AA	CC	1947059487
SNP_P4_188640_830	NW_004519832.1	Scaffold5916	830	AA	TT	1947059489
SNP_P4_188641_835	NW_004519832.1	Scaffold5916	835	GG	AA	1947059491
SNP_P4_188643_894	NW_004519832.1	Scaffold5916	894	CC	GG	1947059493
SNP_P4_188644_895	NW_004519832.1	Scaffold5916	895	CC	TT	1947059495
SNP_P4_188645_911	NW_004519832.1	Scaffold5916	911	AA	GG	1947059497
SNP_P4_188646_957	NW_004519832.1	Scaffold5916	957	TT	CC	1947059499
SNP_P4_188647_962	NW_004519832.1	Scaffold5916	962	CC	AA	1947059501
SNP_P4_188648_971	NW_004519832.1	Scaffold5916	971	CC	AA	1947059503
SNP_P4_188649_987	NW_004519832.1	Scaffold5916	987	CC	GG	1947059505
SNP_P4_188650_1080	NW_004519832.1	Scaffold5916	1080	TT	GG	1947059507
SNP_P4_188652_1331	NW_004519832.1	Scaffold5916	1331	CC	TT	1947059509
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SNP_P4_188654_868	NW_004519833.1	Scaffold5917	868	GG	TT	1947059513
SNP_P4_188655_46	NW_004519834.1	Scaffold5918	46	AA	GG	1947059515
SNP_P4_188656_63	NW_004519834.1	Scaffold5918	63	CC	TT	1947059517
SNP_P4_188657_64	NW_004519834.1	Scaffold5918	64	CC	AA	1947059519
SNP_P4_188659_116	NW_004519834.1	Scaffold5918	116	CC	TT	1947059521
SNP_P4_188660_118	NW_004519834.1	Scaffold5918	118	AA	CC	1947059523
SNP_P4_188661_132	NW_004519834.1	Scaffold5918	132	AA	GG	1947059525
SNP_P4_188662_133	NW_004519834.1	Scaffold5918	133	AA	GG	1947059527
SNP_P4_188663_285	NW_004519834.1	Scaffold5918	285	AA	CC	1947059529
SNP_P4_188664_310	NW_004519834.1	Scaffold5918	310	GG	AA	1947059531
SNP_P4_188665_312	NW_004519834.1	Scaffold5918	312	GG	TT	1947059533
SNP_P4_188666_338	NW_004519834.1	Scaffold5918	338	CC	AA	1947059535
SNP_P4_188667_340	NW_004519834.1	Scaffold5918	340	AA	TT	1947059537
SNP_P4_188668_522	NW_004519834.1	Scaffold5918	522	GG	AA	1947059539
SNP_P4_188669_540	NW_004519834.1	Scaffold5918	540	GG	AA	1947059541
SNP_P4_188670_591	NW_004519834.1	Scaffold5918	591	TT	CC	1947059543
SNP_P4_188671_616	NW_004519834.1	Scaffold5918	616	AA	TT	1947059545

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_188673_659	NW_004519834.1	Scaffold5918	659	AA	TT	1947059549
SNP_P4_188674_812	NW_004519834.1	Scaffold5918	812	TT	GG	1947059551
SNP_P4_188675_829	NW_004519834.1	Scaffold5918	829	GG	TT	1947059553
SNP_P4_188676_871	NW_004519834.1	Scaffold5918	871	GG	AA	1947059555
SNP_P4_188677_896	NW_004519834.1	Scaffold5918	896	CC	TT	1947059557
SNP_P4_188678_899	NW_004519834.1	Scaffold5918	899	CC	AA	1947059559
SNP_P4_188679_955	NW_004519834.1	Scaffold5918	955	AA	TT	1947059561
SNP_P4_188680_1054	NW_004519834.1	Scaffold5918	1054	CC	TT	1947059563
SNP_P4_188681_1066	NW_004519834.1	Scaffold5918	1066	TT	CC	1947059565
SNP_P4_188682_1088	NW_004519834.1	Scaffold5918	1088	GG	AA	1947059567
SNP_P4_188683_1119	NW_004519834.1	Scaffold5918	1119	TT	CC	1947059569
SNP_P4_188684_840	NW_004519836.1	Scaffold5920	840	CC	TT	1947059571
SNP_P4_188685_6096	NW_004519836.1	Scaffold5920	6096	AA	TT	1947059573
SNP_P4_188686_573	NW_004519837.1	Scaffold5921	573	TT	CC	1947059575
SNP_P4_188687_588	NW_004519837.1	Scaffold5921	588	AA	CC	1947059577
SNP_P4_188688_687	NW_004519837.1	Scaffold5921	687	GG	CC	1947059579
SNP_P4_188689_788	NW_004519837.1	Scaffold5921	788	TT	GG	1947059581
SNP_P4_188691_389	NW_004519839.1	Scaffold5923	389	GG	AA	1947059583
SNP_P4_188693_1459	NW_004519840.1	Scaffold5925	1459	AA	GG	1947059585
SNP_P4_188694_1692	NW_004519840.1	Scaffold5925	1692	AA	TT	1947059587
SNP_P4_188695_2114	NW_004519840.1	Scaffold5925	2114	GG	AA	1947059589
SNP_P4_188696_2395	NW_004519840.1	Scaffold5925	2395	TT	CC	1947059591
SNP_P4_188697_2405	NW_004519840.1	Scaffold5925	2405	AA	CC	1947059593
SNP_P4_188698_280	NW_004519843.1	Scaffold5928	280	TT	GG	1947059595
SNP_P4_188699_536	NW_004519843.1	Scaffold5928	536	GG	AA	1947059597
SNP_P4_188700_748	NW_004519843.1	Scaffold5928	748	CC	TT	1947059599
SNP_P4_188701_850	NW_004519843.1	Scaffold5928	850	AA	CC	1947059601
SNP_P4_188702_1074	NW_004519843.1	Scaffold5928	1074	GG	CC	1947059603
SNP_P4_188703_1096	NW_004519843.1	Scaffold5928	1096	AA	TT	1947059605
SNP_P4_188704_1358	NW_004519843.1	Scaffold5928	1358	CC	TT	1947059607
SNP_P4_188705_1365	NW_004519843.1	Scaffold5928	1365	GG	AA	1947059609
SNP_P4_188706_1372	NW_004519843.1	Scaffold5928	1372	GG	CC	1947059611
SNP_P4_188707_1388	NW_004519843.1	Scaffold5928	1388	TT	CC	1947059613
SNP_P4_188708_1411	NW_004519843.1	Scaffold5928	1411	TT	AA	1947059615
SNP_P4_188709_1501	NW_004519843.1	Scaffold5928	1501	TT	CC	1947059617
SNP_P4_188710_1810	NW_004519843.1	Scaffold5928	1810	TT	GG	1947059619
SNP_P4_188711_1836	NW_004519843.1	Scaffold5928	1836	AA	GG	1947059621
SNP_P4_188712_1909	NW_004519843.1	Scaffold5928	1909	TT	AA	1947059623
SNP_P4_188714_1924	NW_004519843.1	Scaffold5928	1924	AA	TT	1947059625
SNP_P4_188715_2022	NW_004519843.1	Scaffold5928	2022	AA	GG	1947059627
SNP_P4_188716_2070	NW_004519843.1	Scaffold5928	2070	AA	GG	1947059629

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_188718_2213	NW_004519843.1	Scaffold5928	2213	AA	GG	1947059633
SNP_P4_188719_2349	NW_004519843.1	Scaffold5928	2349	TT	CC	1947059635
SNP_P4_188720_2383	NW_004519843.1	Scaffold5928	2383	GG	AA	1947059637
SNP_P4_188721_2409	NW_004519843.1	Scaffold5928	2409	AA	GG	1947059639
SNP_P4_188722_2422	NW_004519843.1	Scaffold5928	2422	CC	AA	1947059641
SNP_P4_188723_2428	NW_004519843.1	Scaffold5928	2428	AA	CC	1947059644
SNP_P4_188724_2437	NW_004519843.1	Scaffold5928	2437	GG	AA	1947059646
SNP_P4_188725_2489	NW_004519843.1	Scaffold5928	2489	TT	CC	1947059648
SNP_P4_188726_2563	NW_004519843.1	Scaffold5928	2563	AA	GG	1947059650
SNP_P4_188727_2697	NW_004519843.1	Scaffold5928	2697	TT	GG	1947059652
SNP_P4_188728_2732	NW_004519843.1	Scaffold5928	2732	TT	CC	1947059654
SNP_P4_188729_2803	NW_004519843.1	Scaffold5928	2803	GG	AA	1947059656
SNP_P4_188730_2939	NW_004519843.1	Scaffold5928	2939	CC	TT	1947059658
SNP_P4_188731_2980	NW_004519843.1	Scaffold5928	2980	TT	CC	1947059660
SNP_P4_188732_3687	NW_004519843.1	Scaffold5928	3687	GG	TT	1947059662
SNP_P4_188733_3694	NW_004519843.1	Scaffold5928	3694	TT	CC	1947059664
SNP_P4_188734_3724	NW_004519843.1	Scaffold5928	3724	GG	AA	1947059666
SNP_P4_188735_3796	NW_004519843.1	Scaffold5928	3796	TT	GG	1947059668
SNP_P4_188736_3823	NW_004519843.1	Scaffold5928	3823	GG	AA	1947059670
SNP_P4_188737_3842	NW_004519843.1	Scaffold5928	3842	GG	CC	1947059672
SNP_P4_188738_4023	NW_004519843.1	Scaffold5928	4023	TT	CC	1947059674
SNP_P4_188739_4135	NW_004519843.1	Scaffold5928	4135	CC	TT	1947059676
SNP_P4_188740_7971	NW_004519843.1	Scaffold5928	7971	GG	AA	1947059678
SNP_P4_188741_8010	NW_004519843.1	Scaffold5928	8010	AA	CC	1947059681
SNP_P4_188742_8185	NW_004519843.1	Scaffold5928	8185	CC	TT	1947059683
SNP_P4_188743_8220	NW_004519843.1	Scaffold5928	8220	TT	GG	1947059685
SNP_P4_188744_8268	NW_004519843.1	Scaffold5928	8268	AA	TT	1947059687
SNP_P4_188745_8276	NW_004519843.1	Scaffold5928	8276	CC	TT	1947059689
SNP_P4_188746_8280	NW_004519843.1	Scaffold5928	8280	AA	CC	1947059691
SNP_P4_188747_8285	NW_004519843.1	Scaffold5928	8285	TT	CC	1947059693
SNP_P4_188748_8291	NW_004519843.1	Scaffold5928	8291	TT	AA	1947059706
SNP_P4_188749_8300	NW_004519843.1	Scaffold5928	8300	AA	GG	1947059708
SNP_P4_188750_8355	NW_004519843.1	Scaffold5928	8355	CC	GG	1947059710
SNP_P4_188751_8382	NW_004519843.1	Scaffold5928	8382	GG	AA	1947059712
SNP_P4_188752_8402	NW_004519843.1	Scaffold5928	8402	TT	GG	1947059714
SNP_P4_188754_8662	NW_004519843.1	Scaffold5928	8662	TT	GG	1947059716
SNP_P4_188755_8676	NW_004519843.1	Scaffold5928	8676	AA	CC	1947059718
SNP_P4_188756_8745	NW_004519843.1	Scaffold5928	8745	AA	GG	1947059720
SNP_P4_188757_8857	NW_004519843.1	Scaffold5928	8857	AA	TT	1947059722
SNP_P4_188758_8871	NW_004519843.1	Scaffold5928	8871	TT	CC	1947059724
SNP_P4_188759_9003	NW_004519843.1	Scaffold5928	9003	TT	GG	1947059726

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_188761_1674	NW_004519844.1	Scaffold5929	1674	AA	CC	1947059730
SNP_P4_188762_20335	NW_004519846.1	Scaffold5932	20335	CC	TT	1947059733
SNP_P4_188763_22368	NW_004519848.1	Scaffold5934	22368	GG	AA	1947059735
SNP_P4_188764_27092	NW_004519848.1	Scaffold5934	27092	AA	CC	1947059737
SNP_P4_188765_27243	NW_004519848.1	Scaffold5934	27243	GG	AA	1947059739
SNP_P4_188766_27470	NW_004519848.1	Scaffold5934	27470	TT	CC	1947059741
SNP_P4_188767_27496	NW_004519848.1	Scaffold5934	27496	AA	GG	1947059743
SNP_P4_188768_28938	NW_004519848.1	Scaffold5934	28938	CC	TT	1947059745
SNP_P4_188769_28973	NW_004519848.1	Scaffold5934	28973	TT	CC	1947059747
SNP_P4_188770_28998	NW_004519848.1	Scaffold5934	28998	AA	GG	1947059749
SNP_P4_188771_2115	NW_004519849.1	Scaffold5935	2115	AA	GG	1947059751
SNP_P4_188772_32	NW_004519852.1	Scaffold5938	32	GG	AA	1947059753
SNP_P4_188773_64	NW_004519852.1	Scaffold5938	64	TT	GG	1947059755
SNP_P4_188774_105	NW_004519852.1	Scaffold5938	105	CC	TT	1947059757
SNP_P4_188775_1552	NW_004519852.1	Scaffold5938	1552	GG	AA	1947059759
SNP_P4_188776_105	NW_004519853.1	Scaffold5939	105	CC	TT	1947059761
SNP_P4_188777_5959	NW_004519854.1	Scaffold5941	5959	CC	AA	1947059763
SNP_P4_188778_449	NW_004519856.1	Scaffold5945	449	CC	AA	1947059765
SNP_P4_188779_595	NW_004519856.1	Scaffold5945	595	AA	GG	1947059767
SNP_P4_188780_1016	NW_004519856.1	Scaffold5945	1016	AA	TT	1947059769
SNP_P4_188781_1043	NW_004519856.1	Scaffold5945	1043	CC	TT	1947059771
SNP_P4_188782_1055	NW_004519856.1	Scaffold5945	1055	GG	AA	1947059773
SNP_P4_188783_1181	NW_004519856.1	Scaffold5945	1181	CC	AA	1947059775
SNP_P4_188784_1244	NW_004519856.1	Scaffold5945	1244	TT	CC	1947059777
SNP_P4_188785_1259	NW_004519856.1	Scaffold5945	1259	TT	CC	1947059779
SNP_P4_188786_1261	NW_004519856.1	Scaffold5945	1261	GG	AA	1947059781
SNP_P4_188787_1295	NW_004519856.1	Scaffold5945	1295	GG	AA	1947059783
SNP_P4_188788_1310	NW_004519856.1	Scaffold5945	1310	TT	CC	1947059786
SNP_P4_188789_1235	NW_004519857.1	Scaffold5946	1235	GG	TT	1947059788
SNP_P4_188790_1417	NW_004519857.1	Scaffold5946	1417	GG	AA	1947059790
SNP_P4_188791_1509	NW_004519857.1	Scaffold5946	1509	GG	AA	1947059792
SNP_P4_188792_1510	NW_004519857.1	Scaffold5946	1510	GG	CC	1947059794
SNP_P4_188793_2180	NW_004519857.1	Scaffold5946	2180	CC	TT	1947059796
SNP_P4_188794_1564	NW_004519859.1	Scaffold5952	1564	AA	TT	1947059798
SNP_P4_188795_1565	NW_004519859.1	Scaffold5952	1565	AA	CC	1947059800
SNP_P4_188796_1779	NW_004519859.1	Scaffold5952	1779	GG	TT	1947059802
SNP_P4_188797_1783	NW_004519859.1	Scaffold5952	1783	TT	CC	1947059804
SNP_P4_188798_1788	NW_004519859.1	Scaffold5952	1788	CC	TT	1947059806
SNP_P4_188799_1993	NW_004519859.1	Scaffold5952	1993	CC	AA	1947059808
SNP_P4_188800_2066	NW_004519859.1	Scaffold5952	2066	AA	TT	1947059810
SNP_P4_188801_704	NW_004519861.1	Scaffold5954	704	AA	TT	1947059812

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_188804_840	NW_004519861.1	Scaffold5954	840	AA	TT	1947059816
SNP_P4_188805_902	NW_004519861.1	Scaffold5954	902	CC	TT	1947059818
SNP_P4_188806_1067	NW_004519861.1	Scaffold5954	1067	GG	AA	1947059820
SNP_P4_188807_1097	NW_004519861.1	Scaffold5954	1097	AA	TT	1947059822
SNP_P4_188808_1213	NW_004519861.1	Scaffold5954	1213	TT	AA	1947059824
SNP_P4_188809_1282	NW_004519861.1	Scaffold5954	1282	TT	AA	1947059826
SNP_P4_188810_1318	NW_004519861.1	Scaffold5954	1318	CC	TT	1947059828
SNP_P4_188811_1406	NW_004519861.1	Scaffold5954	1406	GG	AA	1947059830
SNP_P4_188813_1448	NW_004519861.1	Scaffold5954	1448	AA	TT	1947059832
SNP_P4_188814_617	NW_004519862.1	Scaffold5955	617	CC	TT	1947059834
SNP_P4_188815_762	NW_004519862.1	Scaffold5955	762	AA	GG	1947059836
SNP_P4_188816_902	NW_004519862.1	Scaffold5955	902	CC	AA	1947059838
SNP_P4_188817_907	NW_004519862.1	Scaffold5955	907	CC	AA	1947059840
SNP_P4_188818_908	NW_004519862.1	Scaffold5955	908	AA	GG	1947059842
SNP_P4_188819_1437	NW_004519862.1	Scaffold5955	1437	TT	CC	1947059844
SNP_P4_188820_1445	NW_004519862.1	Scaffold5955	1445	TT	GG	1947059846
SNP_P4_188821_1475	NW_004519862.1	Scaffold5955	1475	TT	GG	1947059848
SNP_P4_188822_1585	NW_004519862.1	Scaffold5955	1585	TT	CC	1947059850
SNP_P4_188823_1630	NW_004519862.1	Scaffold5955	1630	TT	CC	1947059852
SNP_P4_188824_1642	NW_004519862.1	Scaffold5955	1642	AA	GG	1947059854
SNP_P4_188825_1645	NW_004519862.1	Scaffold5955	1645	AA	CC	1947059856
SNP_P4_188826_905	NW_004519864.1	Scaffold5957	905	CC	TT	1947059858
SNP_P4_188827_732	NW_004519867.1	Scaffold5960	732	CC	GG	1947059860
SNP_P4_188828_749	NW_004519867.1	Scaffold5960	749	TT	CC	1947059862
SNP_P4_188829_819	NW_004519867.1	Scaffold5960	819	TT	AA	1947059865
SNP_P4_188830_878	NW_004519867.1	Scaffold5960	878	TT	CC	1947059867
SNP_P4_188831_1273	NW_004519867.1	Scaffold5960	1273	TT	CC	1947059869
SNP_P4_188832_539	NW_004519868.1	Scaffold5963	539	AA	GG	1947059871
SNP_P4_188833_544	NW_004519868.1	Scaffold5963	544	CC	AA	1947059873
SNP_P4_188834_545	NW_004519868.1	Scaffold5963	545	AA	CC	1947059875
SNP_P4_188835_572	NW_004519868.1	Scaffold5963	572	AA	CC	1947059877
SNP_P4_188836_6379	NW_004519873.1	Scaffold5974	6379	TT	CC	1947059879
SNP_P4_188837_6413	NW_004519873.1	Scaffold5974	6413	TT	CC	1947059881
SNP_P4_188838_6513	NW_004519873.1	Scaffold5974	6513	TT	GG	1947059883
SNP_P4_188839_6718	NW_004519873.1	Scaffold5974	6718	GG	CC	1947059885
SNP_P4_188840_6852	NW_004519873.1	Scaffold5974	6852	AA	GG	1947059887
SNP_P4_188841_74	NW_004519874.1	Scaffold5975	74	TT	AA	1947059889
SNP_P4_188842_747	NW_004519876.1	Scaffold5977	747	GG	CC	1947059891
SNP_P4_188843_990	NW_004519876.1	Scaffold5977	990	TT	GG	1947059893
SNP_P4_188844_1303	NW_004519876.1	Scaffold5977	1303	AA	CC	1947059895
SNP_P4_188845_4521	NW_004519876.1	Scaffold5977	4521	AA	GG	1947059897

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_188847_4595	NW_004519876.1	Scaffold5977	4595	GG	TT	1947059901
SNP_P4_188849_4681	NW_004519876.1	Scaffold5977	4681	CC	AA	1947059903
SNP_P4_188850_4743	NW_004519876.1	Scaffold5977	4743	GG	TT	1947059905
SNP_P4_188851_4786	NW_004519876.1	Scaffold5977	4786	GG	AA	1947059907
SNP_P4_188852_4791	NW_004519876.1	Scaffold5977	4791	AA	TT	1947059909
SNP_P4_188853_4802	NW_004519876.1	Scaffold5977	4802	TT	CC	1947059911
SNP_P4_188854_4825	NW_004519876.1	Scaffold5977	4825	GG	AA	1947059913
SNP_P4_188855_4887	NW_004519876.1	Scaffold5977	4887	AA	GG	1947059915
SNP_P4_188856_14513	NW_004519876.1	Scaffold5977	14513	AA	CC	1947059917
SNP_P4_188857_14528	NW_004519876.1	Scaffold5977	14528	TT	AA	1947059919
SNP_P4_188858_319	NW_004519877.1	Scaffold5979	319	CC	TT	1947059921
SNP_P4_188859_364	NW_004519877.1	Scaffold5979	364	CC	AA	1947059923
SNP_P4_188860_569	NW_004519877.1	Scaffold5979	569	TT	CC	1947059925
SNP_P4_188861_604	NW_004519877.1	Scaffold5979	604	AA	GG	1947059927
SNP_P4_188862_618	NW_004519877.1	Scaffold5979	618	TT	CC	1947059929
SNP_P4_188863_622	NW_004519877.1	Scaffold5979	622	TT	GG	1947059931
SNP_P4_188864_751	NW_004519877.1	Scaffold5979	751	AA	GG	1947059933
SNP_P4_188865_1047	NW_004519882.1	Scaffold5988	1047	GG	AA	1947059935
SNP_P4_188866_74	NW_004519884.1	Scaffold5992	74	CC	TT	1947059937
SNP_P4_188868_1323	NW_004519884.1	Scaffold5992	1323	GG	AA	1947059939
SNP_P4_188869_1392	NW_004519884.1	Scaffold5992	1392	AA	GG	1947059941
SNP_P4_188870_1516	NW_004519884.1	Scaffold5992	1516	GG	AA	1947059943
SNP_P4_188872_1556	NW_004519884.1	Scaffold5992	1556	CC	GG	1947059945
SNP_P4_188873_1674	NW_004519884.1	Scaffold5992	1674	AA	CC	1947059947
SNP_P4_188874_17898	NW_004519885.1	Scaffold5993	17898	TT	AA	1947059949
SNP_P4_188875_17978	NW_004519885.1	Scaffold5993	17978	TT	CC	1947059951
SNP_P4_188876_18022	NW_004519885.1	Scaffold5993	18022	TT	CC	1947059953
SNP_P4_188877_18092	NW_004519885.1	Scaffold5993	18092	AA	GG	1947059955
SNP_P4_188878_18120	NW_004519885.1	Scaffold5993	18120	AA	TT	1947059956
SNP_P4_188879_18167	NW_004519885.1	Scaffold5993	18167	AA	TT	1947059957
SNP_P4_188880_18286	NW_004519885.1	Scaffold5993	18286	AA	TT	1947059959
SNP_P4_188881_18320	NW_004519885.1	Scaffold5993	18320	CC	TT	1947059961
SNP_P4_188882_18394	NW_004519885.1	Scaffold5993	18394	TT	CC	1947059963
SNP_P4_188883_18534	NW_004519885.1	Scaffold5993	18534	CC	TT	1947059965
SNP_P4_188886_18720	NW_004519885.1	Scaffold5993	18720	TT	GG	1947059967
SNP_P4_188887_18830	NW_004519885.1	Scaffold5993	18830	AA	CC	1947059969
SNP_P4_188888_4644	NW_004519886.1	Scaffold5994	4644	TT	GG	1947059971
SNP_P4_188889_4743	NW_004519886.1	Scaffold5994	4743	AA	GG	1947059973
SNP_P4_188890_4810	NW_004519886.1	Scaffold5994	4810	TT	GG	1947059975
SNP_P4_188891_4822	NW_004519886.1	Scaffold5994	4822	TT	CC	1947059978
SNP_P4_188892_4983	NW_004519886.1	Scaffold5994	4983	CC	GG	1947059980

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_188893_5032	NW_004519886.1	Scaffold5994	5032	CC	AA	1947059982
SNP_P4_188894_7268	NW_004519886.1	Scaffold5994	7268	AA	TT	1947059984
SNP_P4_188895_7278	NW_004519886.1	Scaffold5994	7278	AA	GG	1947059986
SNP_P4_188896_745	NW_004519889.1	Scaffold5997	745	CC	AA	1947059988
SNP_P4_188897_1061	NW_004519889.1	Scaffold5997	1061	GG	TT	1947059990
SNP_P4_188898_1118	NW_004519889.1	Scaffold5997	1118	GG	AA	1947059992
SNP_P4_188899_1156	NW_004519889.1	Scaffold5997	1156	AA	TT	1947059994
SNP_P4_188900_2146	NW_004519889.1	Scaffold5997	2146	CC	TT	1947059996
SNP_P4_188901_2215	NW_004519889.1	Scaffold5997	2215	AA	TT	1947059998
SNP_P4_188902_735	NW_004519890.1	Scaffold5998	735	TT	AA	1947060000
SNP_P4_188903_855	NW_004519891.1	Scaffold5999	855	TT	GG	1947060002
SNP_P4_188904_881	NW_004519891.1	Scaffold5999	881	TT	CC	1947060004
SNP_P4_188905_898	NW_004519891.1	Scaffold5999	898	AA	CC	1947060006
SNP_P4_188906_902	NW_004519891.1	Scaffold5999	902	AA	TT	1947060008
SNP_P4_188907_559	NW_004519894.1	Scaffold6003	559	AA	TT	1947060010
SNP_P4_188908_2356	NW_004519895.1	Scaffold6005	2356	AA	TT	1947060012
SNP_P4_188909_2467	NW_004519895.1	Scaffold6005	2467	AA	CC	1947060014
SNP_P4_188910_3151	NW_004519895.1	Scaffold6005	3151	AA	GG	1947060016
SNP_P4_188911_3162	NW_004519895.1	Scaffold6005	3162	CC	AA	1947060018
SNP_P4_188912_3163	NW_004519895.1	Scaffold6005	3163	TT	CC	1947060020
SNP_P4_188913_3167	NW_004519895.1	Scaffold6005	3167	CC	AA	1947060022
SNP_P4_188914_5975	NW_004519901.1	Scaffold6012	5975	GG	AA	1947060024
SNP_P4_188915_6000	NW_004519901.1	Scaffold6012	6000	CC	GG	1947060026
SNP_P4_188916_6035	NW_004519901.1	Scaffold6012	6035	GG	AA	1947060028
SNP_P4_188917_6122	NW_004519901.1	Scaffold6012	6122	GG	AA	1947060030
SNP_P4_188918_6251	NW_004519901.1	Scaffold6012	6251	CC	TT	1947060032
SNP_P4_188919_6329	NW_004519901.1	Scaffold6012	6329	CC	TT	1947060034
SNP_P4_188920_22115	NW_004519901.1	Scaffold6012	22115	TT	AA	1947060036
SNP_P4_188921_22427	NW_004519901.1	Scaffold6012	22427	CC	TT	1947060038
SNP_P4_188922_22463	NW_004519901.1	Scaffold6012	22463	TT	AA	1947060040
SNP_P4_188923_306	NW_004519902.1	Scaffold6014	306	CC	TT	1947060042
SNP_P4_188924_690	NW_004519902.1	Scaffold6014	690	TT	AA	1947060044
SNP_P4_188925_1566	NW_004519905.1	Scaffold6017	1566	TT	GG	1947060046
SNP_P4_188926_1821	NW_004519905.1	Scaffold6017	1821	AA	CC	1947060048
SNP_P4_188927_47	NW_004519907.1	Scaffold6020	47	TT	AA	1947060050
SNP_P4_188928_64	NW_004519907.1	Scaffold6020	64	TT	CC	1947060052
SNP_P4_188929_77	NW_004519907.1	Scaffold6020	77	TT	GG	1947060054
SNP_P4_188930_138	NW_004519907.1	Scaffold6020	138	TT	CC	1947060056
SNP_P4_188931_457	NW_004519907.1	Scaffold6020	457	CC	GG	1947060058
SNP_P4_188932_461	NW_004519907.1	Scaffold6020	461	TT	AA	1947060060
SNP_P4_188933_468	NW_004519907.1	Scaffold6020	468	TT	AA	1947060062
SNP_P4_188935_1420	NW_004519907.1	Scaffold6020	1420	TT	GG	1947060064

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_188937_18523	NW_004519909.1	Scaffold6022	18523	AA	TT	1947060068
SNP_P4_188938_18820	NW_004519909.1	Scaffold6022	18820	TT	AA	1947060070
SNP_P4_188939_18860	NW_004519909.1	Scaffold6022	18860	GG	TT	1947060072
SNP_P4_188940_18915	NW_004519909.1	Scaffold6022	18915	CC	AA	1947060075
SNP_P4_188941_18916	NW_004519909.1	Scaffold6022	18916	CC	AA	1947060077
SNP_P4_188942_19040	NW_004519909.1	Scaffold6022	19040	CC	AA	1947060079
SNP_P4_188943_19562	NW_004519909.1	Scaffold6022	19562	GG	AA	1947060081
SNP_P4_188944_19634	NW_004519909.1	Scaffold6022	19634	CC	AA	1947060083
SNP_P4_188945_19902	NW_004519909.1	Scaffold6022	19902	TT	CC	1947060085
SNP_P4_188946_19930	NW_004519909.1	Scaffold6022	19930	GG	AA	1947060087
SNP_P4_188947_19940	NW_004519909.1	Scaffold6022	19940	TT	CC	1947060089
SNP_P4_188948_19955	NW_004519909.1	Scaffold6022	19955	TT	GG	1947060091
SNP_P4_188949_19988	NW_004519909.1	Scaffold6022	19988	AA	GG	1947060093
SNP_P4_188950_19998	NW_004519909.1	Scaffold6022	19998	TT	CC	1947060095
SNP_P4_188951_20018	NW_004519909.1	Scaffold6022	20018	GG	CC	1947060097
SNP_P4_188952_20022	NW_004519909.1	Scaffold6022	20022	GG	TT	1947060099
SNP_P4_188953_20051	NW_004519909.1	Scaffold6022	20051	TT	CC	1947060101
SNP_P4_188954_20059	NW_004519909.1	Scaffold6022	20059	TT	CC	1947060103
SNP_P4_188955_20067	NW_004519909.1	Scaffold6022	20067	GG	AA	1947060105
SNP_P4_188956_20069	NW_004519909.1	Scaffold6022	20069	AA	GG	1947060108
SNP_P4_188957_20313	NW_004519909.1	Scaffold6022	20313	TT	AA	1947060110
SNP_P4_188958_21494	NW_004519909.1	Scaffold6022	21494	AA	CC	1947060112
SNP_P4_188959_21519	NW_004519909.1	Scaffold6022	21519	AA	TT	1947060114
SNP_P4_188960_21527	NW_004519909.1	Scaffold6022	21527	TT	GG	1947060116
SNP_P4_188961_22293	NW_004519909.1	Scaffold6022	22293	TT	CC	1947060118
SNP_P4_188962_2173	NW_004519915.1	Scaffold6034	2173	GG	TT	1947060120
SNP_P4_188963_2518	NW_004519915.1	Scaffold6034	2518	GG	AA	1947060122
SNP_P4_188965_194	NW_004519920.1	Scaffold6043	194	TT	CC	1947060124
SNP_P4_188966_1824	NW_004519924.1	Scaffold6049	1824	AA	CC	1947060126
SNP_P4_188967_8466	NW_004519927.1	Scaffold6055	8466	TT	GG	1947060128
SNP_P4_188968_8501	NW_004519927.1	Scaffold6055	8501	CC	GG	1947060130
SNP_P4_188969_8504	NW_004519927.1	Scaffold6055	8504	GG	TT	1947060132
SNP_P4_188970_8509	NW_004519927.1	Scaffold6055	8509	GG	TT	1947060134
SNP_P4_188971_8511	NW_004519927.1	Scaffold6055	8511	AA	CC	1947060136
SNP_P4_188972_8845	NW_004519927.1	Scaffold6055	8845	GG	TT	1947060138
SNP_P4_188973_13777	NW_004519927.1	Scaffold6055	13777	CC	TT	1947060140
SNP_P4_188975_6404	NW_004519929.1	Scaffold6058	6404	TT	AA	1947060142
SNP_P4_188976_8740	NW_004519929.1	Scaffold6058	8740	GG	TT	1947060144
SNP_P4_188977_8770	NW_004519929.1	Scaffold6058	8770	CC	TT	1947060147
SNP_P4_188978_8774	NW_004519929.1	Scaffold6058	8774	TT	GG	1947060149
SNP_P4_188979_11232	NW_004519929.1	Scaffold6058	11232	CC	TT	1947060151

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_188981_704	NW_004519932.1	Scaffold6063	704	TT	CC	1947060155
SNP_P4_188982_728	NW_004519932.1	Scaffold6063	728	TT	GG	1947060157
SNP_P4_188983_1165	NW_004519932.1	Scaffold6063	1165	TT	CC	1947060159
SNP_P4_188984_1187	NW_004519932.1	Scaffold6063	1187	GG	AA	1947060161
SNP_P4_188985_1199	NW_004519932.1	Scaffold6063	1199	AA	TT	1947060163
SNP_P4_188986_1665	NW_004519933.1	Scaffold6064	1665	GG	TT	1947060165
SNP_P4_188987_2419	NW_004519935.1	Scaffold6066	2419	CC	TT	1947060167
SNP_P4_188988_2697	NW_004519935.1	Scaffold6066	2697	GG	AA	1947060170
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SNP_P4_188990_2775	NW_004519935.1	Scaffold6066	2775	TT	GG	1947060174
SNP_P4_188991_2777	NW_004519935.1	Scaffold6066	2777	AA	GG	1947060176
SNP_P4_188993_2866	NW_004519935.1	Scaffold6066	2866	CC	TT	1947060178
SNP_P4_188994_2986	NW_004519935.1	Scaffold6066	2986	TT	AA	1947060180
SNP_P4_188995_2995	NW_004519935.1	Scaffold6066	2995	TT	AA	1947060182
SNP_P4_188996_2999	NW_004519935.1	Scaffold6066	2999	GG	AA	1947060184
SNP_P4_188997_2580	NW_004519937.1	Scaffold6069	2580	AA	TT	1947060186
SNP_P4_188998_2589	NW_004519937.1	Scaffold6069	2589	CC	TT	1947060188
SNP_P4_188999_521	NW_004519939.1	Scaffold6071	521	TT	CC	1947060190
SNP_P4_189000_526	NW_004519939.1	Scaffold6071	526	AA	GG	1947060192
SNP_P4_189002_16020	NW_004519951.1	Scaffold6091	16020	TT	GG	1947060194
SNP_P4_189003_16396	NW_004519951.1	Scaffold6091	16396	AA	TT	1947060196
SNP_P4_189004_16418	NW_004519951.1	Scaffold6091	16418	AA	TT	1947060198
SNP_P4_189005_16433	NW_004519951.1	Scaffold6091	16433	GG	TT	1947060200
SNP_P4_189006_97	NW_004519952.1	Scaffold6092	97	GG	AA	1947060202
SNP_P4_189007_105	NW_004519952.1	Scaffold6092	105	CC	AA	1947060204
SNP_P4_189008_123	NW_004519952.1	Scaffold6092	123	GG	AA	1947060206
SNP_P4_189009_133	NW_004519952.1	Scaffold6092	133	GG	AA	1947060208
SNP_P4_189010_160	NW_004519952.1	Scaffold6092	160	CC	TT	1947060210
SNP_P4_189011_265	NW_004519952.1	Scaffold6092	265	AA	CC	1947060212
SNP_P4_189012_351	NW_004519952.1	Scaffold6092	351	GG	AA	1947060214
SNP_P4_189013_363	NW_004519952.1	Scaffold6092	363	AA	GG	1947060216
SNP_P4_189014_372	NW_004519952.1	Scaffold6092	372	TT	CC	1947060218
SNP_P4_189015_407	NW_004519952.1	Scaffold6092	407	AA	GG	1947060220
SNP_P4_189016_460	NW_004519952.1	Scaffold6092	460	AA	GG	1947060222
SNP_P4_189017_700	NW_004519952.1	Scaffold6092	700	GG	TT	1947060224
SNP_P4_189018_710	NW_004519952.1	Scaffold6092	710	AA	GG	1947060226
SNP_P4_189020_1184	NW_004519952.1	Scaffold6092	1184	AA	GG	1947060228
SNP_P4_189021_3180	NW_004519954.1	Scaffold6095	3180	AA	CC	1947060230
SNP_P4_189022_3181	NW_004519954.1	Scaffold6095	3181	GG	AA	1947060232
SNP_P4_189023_643	NW_004519956.1	Scaffold6097	643	GG	CC	1947060234
SNP_P4_189024_657	NW_004519963.1	Scaffold6109	657	GG	CC	1947060236

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_189026_1379	NW_004519965.1	Scaffold6113	1379	TT	CC	1947060241
SNP_P4_189027_1428	NW_004519965.1	Scaffold6113	1428	CC	TT	1947060243
SNP_P4_189029_1749	NW_004519965.1	Scaffold6113	1749	TT	AA	1947060245
SNP_P4_189030_1750	NW_004519965.1	Scaffold6113	1750	AA	CC	1947060247
SNP_P4_189031_1776	NW_004519965.1	Scaffold6113	1776	TT	AA	1947060249
SNP_P4_189032_1842	NW_004519965.1	Scaffold6113	1842	AA	GG	1947060251
SNP_P4_189033_1865	NW_004519965.1	Scaffold6113	1865	AA	CC	1947060253
SNP_P4_189034_5344	NW_004519969.1	Scaffold6117	5344	AA	TT	1947060255
SNP_P4_189035_5499	NW_004519969.1	Scaffold6117	5499	GG	TT	1947060257
SNP_P4_189036_5546	NW_004519969.1	Scaffold6117	5546	CC	TT	1947060259
SNP_P4_189037_5695	NW_004519969.1	Scaffold6117	5695	TT	CC	1947060261
SNP_P4_189038_5696	NW_004519969.1	Scaffold6117	5696	TT	AA	1947060263
SNP_P4_189039_5720	NW_004519969.1	Scaffold6117	5720	TT	AA	1947060265
SNP_P4_189041_1563	NW_004519970.1	Scaffold6120	1563	CC	TT	1947060267
SNP_P4_189042_1652	NW_004519970.1	Scaffold6120	1652	AA	GG	1947060269
SNP_P4_189043_1808	NW_004519970.1	Scaffold6120	1808	AA	GG	1947060271
SNP_P4_189044_1919	NW_004519970.1	Scaffold6120	1919	GG	AA	1947060273
SNP_P4_189045_2013	NW_004519970.1	Scaffold6120	2013	CC	TT	1947060275
SNP_P4_189047_2114	NW_004519970.1	Scaffold6120	2114	TT	AA	1947060277
SNP_P4_189048_2322	NW_004519970.1	Scaffold6120	2322	AA	TT	1947060279
SNP_P4_189049_2549	NW_004519970.1	Scaffold6120	2549	TT	GG	1947060281
SNP_P4_189050_3090	NW_004519970.1	Scaffold6120	3090	AA	GG	1947060283
SNP_P4_189051_3118	NW_004519970.1	Scaffold6120	3118	CC	TT	1947060285
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SNP_P4_189054_3542	NW_004519970.1	Scaffold6120	3542	AA	TT	1947060291
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SNP_P4_189057_3807	NW_004519970.1	Scaffold6120	3807	GG	AA	1947060297
SNP_P4_189058_3813	NW_004519970.1	Scaffold6120	3813	AA	GG	1947060299
SNP_P4_189059_3831	NW_004519970.1	Scaffold6120	3831	CC	TT	1947060301
SNP_P4_189060_3847	NW_004519970.1	Scaffold6120	3847	GG	AA	1947060303
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SNP_P4_189062_16174	NW_004519971.1	Scaffold6121	16174	GG	TT	1947060307
SNP_P4_189063_16182	NW_004519971.1	Scaffold6121	16182	AA	CC	1947060309
SNP_P4_189064_16395	NW_004519971.1	Scaffold6121	16395	GG	AA	1947060311
SNP_P4_189065_130	NW_004519972.1	Scaffold6122	130	CC	TT	1947060313
SNP_P4_189066_217	NW_004519972.1	Scaffold6122	217	AA	CC	1947060315
SNP_P4_189067_5103	NW_004519973.1	Scaffold6123	5103	CC	TT	1947060317
SNP_P4_189068_5116	NW_004519973.1	Scaffold6123	5116	GG	AA	1947060319
SNP_P4_189069_408	NW_004519975.1	Scaffold6125	408	TT	CC	1947060321

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_189071_439	NW_004519975.1	Scaffold6125	439	GG	AA	1947060325
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SNP_P4_189073_1067	NW_004519975.1	Scaffold6125	1067	TT	AA	1947060330
SNP_P4_189074_1106	NW_004519975.1	Scaffold6125	1106	CC	TT	1947060332
SNP_P4_189075_1183	NW_004519975.1	Scaffold6125	1183	AA	GG	1947060334
SNP_P4_189076_1323	NW_004519975.1	Scaffold6125	1323	TT	AA	1947060336
SNP_P4_189077_1371	NW_004519975.1	Scaffold6125	1371	AA	GG	1947060338
SNP_P4_189078_1402	NW_004519975.1	Scaffold6125	1402	AA	GG	1947060340
SNP_P4_189079_1435	NW_004519975.1	Scaffold6125	1435	CC	TT	1947060342
SNP_P4_189080_1465	NW_004519975.1	Scaffold6125	1465	GG	TT	1947060344
SNP_P4_189082_1563	NW_004519975.1	Scaffold6125	1563	CC	AA	1947060346
SNP_P4_189083_1568	NW_004519975.1	Scaffold6125	1568	AA	GG	1947060348
SNP_P4_189084_1620	NW_004519975.1	Scaffold6125	1620	TT	GG	1947060350
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SNP_P4_189086_1724	NW_004519975.1	Scaffold6125	1724	CC	TT	1947060354
SNP_P4_189087_2623	NW_004519975.1	Scaffold6125	2623	TT	CC	1947060356
SNP_P4_189088_2891	NW_004519975.1	Scaffold6125	2891	CC	TT	1947060358
SNP_P4_189089_2921	NW_004519975.1	Scaffold6125	2921	CC	TT	1947060360
SNP_P4_189090_2937	NW_004519975.1	Scaffold6125	2937	AA	GG	1947060362
SNP_P4_189091_2961	NW_004519975.1	Scaffold6125	2961	GG	AA	1947060364
SNP_P4_189092_3441	NW_004519975.1	Scaffold6125	3441	AA	GG	1947060366
SNP_P4_189093_797	NW_004519976.1	Scaffold6126	797	CC	TT	1947060368
SNP_P4_189094_64	NW_004519980.1	Scaffold6131	64	GG	AA	1947060371
SNP_P4_189095_87	NW_004519980.1	Scaffold6131	87	CC	AA	1947060373
SNP_P4_189096_5806	NW_004519980.1	Scaffold6131	5806	AA	GG	1947060375
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SNP_P4_189098_8780	NW_004519980.1	Scaffold6131	8780	AA	CC	1947060379
SNP_P4_189100_9553	NW_004519980.1	Scaffold6131	9553	TT	AA	1947060381
SNP_P4_189101_9862	NW_004519980.1	Scaffold6131	9862	AA	TT	1947060383
SNP_P4_189102_9917	NW_004519980.1	Scaffold6131	9917	GG	CC	1947060385
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SNP_P4_189105_10768	NW_004519980.1	Scaffold6131	10768	TT	CC	1947060391
SNP_P4_189106_1360	NW_004519981.1	Scaffold6133	1360	AA	CC	1947060393
SNP_P4_189107_110	NW_004519985.1	Scaffold6137	110	CC	TT	1947060395
SNP_P4_189108_162	NW_004519985.1	Scaffold6137	162	AA	TT	1947060397
SNP_P4_189109_163	NW_004519985.1	Scaffold6137	163	TT	AA	1947060399
SNP_P4_189110_635	NW_004519985.1	Scaffold6137	635	AA	TT	1947060401
SNP_P4_189111_3616	NW_004519985.1	Scaffold6137	3616	CC	TT	1947060403
SNP_P4_189112_3673	NW_004519985.1	Scaffold6137	3673	TT	GG	1947060405
SNP_P4_189113_3823	NW_004519985.1	Scaffold6137	3823	TT	CC	1947060407

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_189115_705	NW_004519989.1	Scaffold6149	705	TT	AA	1947060411
SNP_P4_189116_816	NW_004519989.1	Scaffold6149	816	AA	CC	1947060413
SNP_P4_189117_855	NW_004519989.1	Scaffold6149	855	GG	CC	1947060415
SNP_P4_189118_935	NW_004519989.1	Scaffold6149	935	GG	TT	1947060417
SNP_P4_189119_955	NW_004519989.1	Scaffold6149	955	CC	AA	1947060419
SNP_P4_189120_19245	NW_004519992.1	Scaffold6153	19245	GG	AA	1947060421
SNP_P4_189121_19246	NW_004519992.1	Scaffold6153	19246	TT	GG	1947060423
SNP_P4_189122_19273	NW_004519992.1	Scaffold6153	19273	TT	AA	1947060425
SNP_P4_189124_20834	NW_004519992.1	Scaffold6153	20834	TT	CC	1947060427
SNP_P4_189125_115	NW_004519993.1	Scaffold6154	115	CC	AA	1947060429
SNP_P4_189126_127	NW_004519993.1	Scaffold6154	127	CC	GG	1947060431
SNP_P4_189127_153	NW_004519993.1	Scaffold6154	153	AA	GG	1947060433
SNP_P4_189128_225	NW_004519993.1	Scaffold6154	225	CC	AA	1947060435
SNP_P4_189129_426	NW_004519993.1	Scaffold6154	426	GG	AA	1947060437
SNP_P4_189130_436	NW_004519993.1	Scaffold6154	436	TT	CC	1947060439
SNP_P4_189131_490	NW_004519993.1	Scaffold6154	490	CC	AA	1947060441
SNP_P4_189132_507	NW_004519993.1	Scaffold6154	507	GG	TT	1947060444
SNP_P4_189133_510	NW_004519993.1	Scaffold6154	510	GG	AA	1947060446
SNP_P4_189135_565	NW_004519993.1	Scaffold6154	565	GG	AA	1947060448
SNP_P4_189136_581	NW_004519993.1	Scaffold6154	581	CC	GG	1947060450
SNP_P4_189137_602	NW_004519993.1	Scaffold6154	602	CC	TT	1947060452
SNP_P4_189138_611	NW_004519993.1	Scaffold6154	611	CC	AA	1947060454
SNP_P4_189139_680	NW_004519993.1	Scaffold6154	680	AA	TT	1947060456
SNP_P4_189140_682	NW_004519993.1	Scaffold6154	682	TT	CC	1947060458
SNP_P4_189141_806	NW_004519993.1	Scaffold6154	806	AA	GG	1947060460
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SNP_P4_189143_1680	NW_004519995.1	Scaffold6157	1680	TT	AA	1947060464
SNP_P4_189145_599	NW_004519996.1	Scaffold6158	599	TT	CC	1947060466
SNP_P4_189146_716	NW_004519996.1	Scaffold6158	716	CC	AA	1947060468
SNP_P4_189147_726	NW_004519996.1	Scaffold6158	726	AA	GG	1947060470
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SNP_P4_189150_1879	NW_004519996.1	Scaffold6158	1879	AA	GG	1947060477
SNP_P4_189151_1947	NW_004519996.1	Scaffold6158	1947	GG	CC	1947060479
SNP_P4_189152_1960	NW_004519996.1	Scaffold6158	1960	AA	GG	1947060481
SNP_P4_189153_2297	NW_004519996.1	Scaffold6158	2297	CC	GG	1947060483
SNP_P4_189154_57	NW_004520000.1	Scaffold6163	57	TT	CC	1947060485
SNP_P4_189155_74	NW_004520000.1	Scaffold6163	74	GG	AA	1947060487
SNP_P4_189156_386	NW_004520001.1	Scaffold6165	386	CC	TT	1947060489
SNP_P4_189157_527	NW_004520003.1	Scaffold6169	527	AA	TT	1947060492
SNP_P4_189158_553	NW_004520003.1	Scaffold6169	553	TT	CC	1947060494

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_189160_606	NW_004520003.1	Scaffold6169	606	TT	CC	1947060498
SNP_P4_189162_931	NW_004520003.1	Scaffold6169	931	TT	GG	1947060500
SNP_P4_189163_1011	NW_004520003.1	Scaffold6169	1011	AA	GG	1947060502
SNP_P4_189164_1051	NW_004520003.1	Scaffold6169	1051	CC	TT	1947060505
SNP_P4_189165_1053	NW_004520003.1	Scaffold6169	1053	GG	AA	1947060507
SNP_P4_189166_1204	NW_004520003.1	Scaffold6169	1204	CC	TT	1947060509
SNP_P4_189167_1337	NW_004520004.1	Scaffold6170	1337	CC	GG	1947060511
SNP_P4_189168_962	NW_004520005.1	Scaffold6171	962	TT	CC	1947060513
SNP_P4_189169_14145	NW_004520006.1	Scaffold6172	14145	CC	TT	1947060515
SNP_P4_189170_14465	NW_004520006.1	Scaffold6172	14465	AA	GG	1947060517
SNP_P4_189171_19128	NW_004520006.1	Scaffold6172	19128	TT	AA	1947060519
SNP_P4_189172_19241	NW_004520006.1	Scaffold6172	19241	GG	AA	1947060522
SNP_P4_189173_19243	NW_004520006.1	Scaffold6172	19243	TT	AA	1947060524
SNP_P4_189174_19480	NW_004520006.1	Scaffold6172	19480	TT	GG	1947060526
SNP_P4_189175_19614	NW_004520006.1	Scaffold6172	19614	TT	CC	1947060528
SNP_P4_189176_19619	NW_004520006.1	Scaffold6172	19619	GG	AA	1947060530
SNP_P4_189177_19653	NW_004520006.1	Scaffold6172	19653	AA	CC	1947060532
SNP_P4_189178_19716	NW_004520006.1	Scaffold6172	19716	CC	TT	1947060535
SNP_P4_189179_19808	NW_004520006.1	Scaffold6172	19808	TT	AA	1947060537
SNP_P4_189180_19934	NW_004520006.1	Scaffold6172	19934	AA	CC	1947060539
SNP_P4_189181_20234	NW_004520006.1	Scaffold6172	20234	AA	GG	1947060541
SNP_P4_189182_20729	NW_004520006.1	Scaffold6172	20729	GG	AA	1947060543
SNP_P4_189183_24055	NW_004520006.1	Scaffold6172	24055	TT	CC	1947060545
SNP_P4_189184_24331	NW_004520006.1	Scaffold6172	24331	CC	TT	1947060548
SNP_P4_189185_24370	NW_004520006.1	Scaffold6172	24370	CC	TT	1947060550
SNP_P4_189186_27984	NW_004520006.1	Scaffold6172	27984	TT	AA	1947060552
SNP_P4_189187_28308	NW_004520006.1	Scaffold6172	28308	TT	CC	1947060554
SNP_P4_189188_29851	NW_004520006.1	Scaffold6172	29851	CC	GG	1947060557
SNP_P4_189189_29917	NW_004520006.1	Scaffold6172	29917	TT	CC	1947060559
SNP_P4_189190_30113	NW_004520006.1	Scaffold6172	30113	AA	CC	1947060561
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SNP_P4_189198_37394	NW_004520006.1	Scaffold6172	37394	TT	CC	1947060578
SNP_P4_189199_37395	NW_004520006.1	Scaffold6172	37395	TT	AA	1947060580
SNP_P4_189200_37415	NW_004520006.1	Scaffold6172	37415	CC	AA	1947060582
SNP_P4_189201_37991	NW_004520006.1	Scaffold6172	37991	TT	GG	1947060583

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_189203_442	NW_004520007.1	Scaffold6173	442	TT	GG	1947060585
SNP_P4_189204_448	NW_004520007.1	Scaffold6173	448	TT	AA	1947060586
SNP_P4_189205_487	NW_004520007.1	Scaffold6173	487	CC	GG	1947060587
SNP_P4_189206_528	NW_004520008.1	Scaffold6174	528	AA	CC	1947060588
SNP_P4_189207_536	NW_004520008.1	Scaffold6174	536	TT	AA	1947060589
SNP_P4_189208_684	NW_004520008.1	Scaffold6174	684	AA	GG	1947060590
SNP_P4_189209_704	NW_004520008.1	Scaffold6174	704	GG	AA	1947060591
SNP_P4_189210_749	NW_004520008.1	Scaffold6174	749	TT	GG	1947060592
SNP_P4_189211_758	NW_004520008.1	Scaffold6174	758	TT	GG	1947060593
SNP_P4_189212_776	NW_004520008.1	Scaffold6174	776	AA	GG	1947060594
SNP_P4_189213_918	NW_004520008.1	Scaffold6174	918	CC	TT	1947060595
SNP_P4_189214_981	NW_004520008.1	Scaffold6174	981	TT	AA	1947060596
SNP_P4_189215_982	NW_004520008.1	Scaffold6174	982	AA	TT	1947060597
SNP_P4_189216_1006	NW_004520011.1	Scaffold6177	1006	AA	GG	1947060598
SNP_P4_189217_1030	NW_004520011.1	Scaffold6177	1030	CC	TT	1947060599
SNP_P4_189218_1050	NW_004520011.1	Scaffold6177	1050	TT	GG	1947060600
SNP_P4_189219_3365	NW_004520011.1	Scaffold6177	3365	AA	TT	1947060601
SNP_P4_189220_3452	NW_004520011.1	Scaffold6177	3452	GG	AA	1947060602
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SNP_P4_189223_3725	NW_004520011.1	Scaffold6177	3725	GG	AA	1947060604
SNP_P4_189224_4325	NW_004520011.1	Scaffold6177	4325	TT	AA	1947060605
SNP_P4_189225_4331	NW_004520011.1	Scaffold6177	4331	GG	AA	1947060606
SNP_P4_189226_725	NW_004520013.1	Scaffold6179	725	TT	AA	1947060607
SNP_P4_189227_912	NW_004520013.1	Scaffold6179	912	GG	CC	1947060608
SNP_P4_189229_1045	NW_004520015.1	Scaffold6181	1045	CC	TT	1947060609
SNP_P4_189230_1440	NW_004520015.1	Scaffold6181	1440	GG	AA	1947060610
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SNP_P4_189232_123	NW_004520018.1	Scaffold6185	123	AA	TT	1947060612
SNP_P4_189233_233	NW_004520018.1	Scaffold6185	233	AA	GG	1947060613
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SNP_P4_189236_298	NW_004520018.1	Scaffold6185	298	TT	GG	1947060616
SNP_P4_189237_315	NW_004520018.1	Scaffold6185	315	GG	AA	1947060617
SNP_P4_189238_367	NW_004520018.1	Scaffold6185	367	CC	TT	1947060618
SNP_P4_189239_381	NW_004520018.1	Scaffold6185	381	AA	GG	1947060619
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SNP_P4_189242_542	NW_004520018.1	Scaffold6185	542	AA	CC	1947060621
SNP_P4_189243_559	NW_004520018.1	Scaffold6185	559	TT	CC	1947060622
SNP_P4_189244_560	NW_004520018.1	Scaffold6185	560	AA	GG	1947060624
SNP_P4_189246_617	NW_004520018.1	Scaffold6185	617	GG	AA	1947060626
SNP_P4_189247_658	NW_004520018.1	Scaffold6185	658	AA	GG	1947060628

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_189249_799	NW_004520018.1	Scaffold6185	799	AA	GG	1947060632
SNP_P4_189250_846	NW_004520018.1	Scaffold6185	846	CC	TT	1947060635
SNP_P4_189251_856	NW_004520018.1	Scaffold6185	856	CC	AA	1947060637
SNP_P4_189252_866	NW_004520018.1	Scaffold6185	866	CC	TT	1947060639
SNP_P4_189253_959	NW_004520018.1	Scaffold6185	959	GG	AA	1947060641
SNP_P4_189254_989	NW_004520018.1	Scaffold6185	989	TT	AA	1947060643
SNP_P4_189255_1021	NW_004520018.1	Scaffold6185	1021	CC	AA	1947060645
SNP_P4_189256_1041	NW_004520018.1	Scaffold6185	1041	CC	TT	1947060647
SNP_P4_189257_1042	NW_004520018.1	Scaffold6185	1042	GG	AA	1947060649
SNP_P4_189258_1045	NW_004520018.1	Scaffold6185	1045	TT	GG	1947060651
SNP_P4_189259_1048	NW_004520018.1	Scaffold6185	1048	CC	TT	1947060653
SNP_P4_189260_1055	NW_004520018.1	Scaffold6185	1055	CC	TT	1947060655
SNP_P4_189261_1140	NW_004520018.1	Scaffold6185	1140	AA	CC	1947060658
SNP_P4_189262_1144	NW_004520018.1	Scaffold6185	1144	TT	CC	1947060660
SNP_P4_189263_1174	NW_004520018.1	Scaffold6185	1174	GG	AA	1947060662
SNP_P4_189264_1194	NW_004520018.1	Scaffold6185	1194	TT	AA	1947060664
SNP_P4_189265_1296	NW_004520018.1	Scaffold6185	1296	AA	CC	1947060666
SNP_P4_189266_1415	NW_004520018.1	Scaffold6185	1415	AA	CC	1947060668
SNP_P4_189267_2220	NW_004520018.1	Scaffold6185	2220	GG	TT	1947060670
SNP_P4_189268_2270	NW_004520018.1	Scaffold6185	2270	CC	AA	1947060672
SNP_P4_189269_2618	NW_004520018.1	Scaffold6185	2618	GG	AA	1947060674
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SNP_P4_189276_3087	NW_004520018.1	Scaffold6185	3087	AA	TT	1947060687
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SNP_P4_189283_3719	NW_004520018.1	Scaffold6185	3719	CC	TT	1947060700
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SNP_P4_189285_3738	NW_004520018.1	Scaffold6185	3738	CC	TT	1947060704
SNP_P4_189286_3856	NW_004520018.1	Scaffold6185	3856	GG	TT	1947060706
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SNP_P4_189288_728	NW_004520019.1	Scaffold6187	728	GG	AA	1947060710
SNP_P4_189289_852	NW_004520019.1	Scaffold6187	852	AA	TT	1947060712
SNP_P4_189290_889	NW_004520019.1	Scaffold6187	889	AA	GG	1947060714
SNP_P4_189291_1025	NW_004520019.1	Scaffold6187	1025	TT	GG	1947060716

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_189294_1480	NW_004520020.1	Scaffold6188	1480	AA	TT	1947060723
SNP_P4_189295_1598	NW_004520020.1	Scaffold6188	1598	GG	TT	1947060725
SNP_P4_189296_1341	NW_004520021.1	Scaffold6189	1341	AA	TT	1947060727
SNP_P4_189297_2273	NW_004520021.1	Scaffold6189	2273	AA	TT	1947060729
SNP_P4_189298_64	NW_004520024.1	Scaffold6193	64	GG	CC	1947060731
SNP_P4_189299_447	NW_004520024.1	Scaffold6193	447	TT	GG	1947060733
SNP_P4_189300_1290	NW_004520024.1	Scaffold6193	1290	AA	CC	1947060736
SNP_P4_189301_1435	NW_004520024.1	Scaffold6193	1435	TT	AA	1947060738
SNP_P4_189302_659	NW_004520025.1	Scaffold6194	659	AA	TT	1947060740
SNP_P4_189303_696	NW_004520025.1	Scaffold6194	696	AA	GG	1947060742
SNP_P4_189304_697	NW_004520025.1	Scaffold6194	697	AA	CC	1947060744
SNP_P4_189305_64	NW_004520028.1	Scaffold6197	64	TT	AA	1947060746
SNP_P4_189306_98	NW_004520028.1	Scaffold6197	98	TT	GG	1947060748
SNP_P4_189307_612	NW_004520030.1	Scaffold6199	612	AA	CC	1947060750
SNP_P4_189308_654	NW_004520030.1	Scaffold6199	654	TT	GG	1947060752
SNP_P4_189310_1153	NW_004520030.1	Scaffold6199	1153	CC	GG	1947060754
SNP_P4_189311_1191	NW_004520030.1	Scaffold6199	1191	TT	CC	1947060756
SNP_P4_189312_4090	NW_004520038.1	Scaffold6212	4090	AA	TT	1947060758
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SNP_P4_189314_5624	NW_004520039.1	Scaffold6214	5624	CC	GG	1947060762
SNP_P4_189315_451	NW_004520040.1	Scaffold6215	451	AA	GG	1947060764
SNP_P4_189316_99	NW_004520045.1	Scaffold6225	99	GG	TT	1947060766
SNP_P4_189318_998	NW_004520046.1	Scaffold6227	998	TT	CC	1947060768
SNP_P4_189319_306	NW_004520047.1	Scaffold6228	306	AA	GG	1947060770
SNP_P4_189320_348	NW_004520047.1	Scaffold6228	348	GG	AA	1947060772
SNP_P4_189321_352	NW_004520047.1	Scaffold6228	352	GG	TT	1947060774
SNP_P4_189322_355	NW_004520047.1	Scaffold6228	355	TT	CC	1947060776
SNP_P4_189323_97	NW_004520050.1	Scaffold6232	97	CC	TT	1947060778
SNP_P4_189324_129	NW_004520050.1	Scaffold6232	129	CC	TT	1947060780
SNP_P4_189325_804	NW_004520052.1	Scaffold6235	804	GG	TT	1947060782
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SNP_P4_189327_1323	NW_004520054.1	Scaffold6237	1323	AA	TT	1947060787
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SNP_P4_189329_1488	NW_004520055.1	Scaffold6238	1488	AA	GG	1947060791
SNP_P4_189330_1705	NW_004520055.1	Scaffold6238	1705	GG	TT	1947060793
SNP_P4_189331_1721	NW_004520055.1	Scaffold6238	1721	CC	AA	1947060795
SNP_P4_189332_1734	NW_004520055.1	Scaffold6238	1734	AA	GG	1947060797
SNP_P4_189333_33	NW_004520060.1	Scaffold6256	33	TT	AA	1947060799
SNP_P4_189334_43	NW_004520060.1	Scaffold6256	43	TT	GG	1947060801
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_189337_95	NW_004520060.1	Scaffold6256	95	AA	CC	1947060807
SNP_P4_189338_107	NW_004520060.1	Scaffold6256	107	CC	GG	1947060809
SNP_P4_189339_110	NW_004520060.1	Scaffold6256	110	AA	GG	1947060811
SNP_P4_189340_196	NW_004520060.1	Scaffold6256	196	GG	CC	1947060813
SNP_P4_189341_239	NW_004520060.1	Scaffold6256	239	AA	GG	1947060815
SNP_P4_189342_285	NW_004520060.1	Scaffold6256	285	AA	TT	1947060817
SNP_P4_189343_64	NW_004520063.1	Scaffold6262	64	GG	CC	1947060819
SNP_P4_189344_75	NW_004520063.1	Scaffold6262	75	TT	CC	1947060821
SNP_P4_189345_134	NW_004520063.1	Scaffold6262	134	GG	TT	1947060823
SNP_P4_189346_2729	NW_004520069.1	Scaffold6273	2729	TT	CC	1947060825
SNP_P4_189347_2963	NW_004520069.1	Scaffold6273	2963	TT	AA	1947060827
SNP_P4_189348_5623	NW_004520069.1	Scaffold6273	5623	TT	AA	1947060829
SNP_P4_189349_8241	NW_004520069.1	Scaffold6273	8241	GG	AA	1947060831
SNP_P4_189350_890	NW_004520087.1	Scaffold6300	890	GG	CC	1947060833
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SNP_P4_189352_1240	NW_004520087.1	Scaffold6300	1240	TT	CC	1947060837
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SNP_P4_189356_1893	NW_004520087.1	Scaffold6300	1893	CC	GG	1947060845
SNP_P4_189357_2506	NW_004520087.1	Scaffold6300	2506	CC	GG	1947060847
SNP_P4_189358_2530	NW_004520087.1	Scaffold6300	2530	GG	CC	1947060849
SNP_P4_189359_2634	NW_004520087.1	Scaffold6300	2634	GG	AA	1947060851
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SNP_P4_189373_11251	NW_004520087.1	Scaffold6300	11251	TT	CC	1947060877
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SNP_P4_189376_3587	NW_004520090.1	Scaffold6303	3587	AA	TT	1947060884
SNP_P4_189377_569	NW_004520093.1	Scaffold6307	569	CC	TT	1947060886
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_189381_706	NW_004520096.1	Scaffold6314	706	CC	TT	1947060894
SNP_P4_189382_1012	NW_004520096.1	Scaffold6314	1012	TT	AA	1947060896
SNP_P4_189383_1039	NW_004520096.1	Scaffold6314	1039	AA	GG	1947060898
SNP_P4_189384_1242	NW_004520096.1	Scaffold6314	1242	AA	TT	1947060900
SNP_P4_189385_377	NW_004520097.1	Scaffold6317	377	GG	AA	1947060902
SNP_P4_189386_378	NW_004520097.1	Scaffold6317	378	CC	TT	1947060904
SNP_P4_189387_382	NW_004520097.1	Scaffold6317	382	CC	TT	1947060906
SNP_P4_189388_385	NW_004520097.1	Scaffold6317	385	TT	GG	1947060908
SNP_P4_189389_387	NW_004520097.1	Scaffold6317	387	GG	AA	1947060910
SNP_P4_189390_627	NW_004520097.1	Scaffold6317	627	GG	TT	1947060912
SNP_P4_189391_661	NW_004520097.1	Scaffold6317	661	CC	TT	1947060914
SNP_P4_189392_701	NW_004520097.1	Scaffold6317	701	CC	TT	1947060916
SNP_P4_189393_703	NW_004520097.1	Scaffold6317	703	GG	AA	1947060918
SNP_P4_189394_734	NW_004520097.1	Scaffold6317	734	AA	TT	1947060920
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SNP_P4_189396_16857	NW_004520098.1	Scaffold6318	16857	GG	AA	1947060925
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SNP_P4_189398_17190	NW_004520098.1	Scaffold6318	17190	CC	AA	1947060929
SNP_P4_189399_17347	NW_004520098.1	Scaffold6318	17347	TT	CC	1947060931
SNP_P4_189400_17360	NW_004520098.1	Scaffold6318	17360	GG	AA	1947060933
SNP_P4_189401_17384	NW_004520098.1	Scaffold6318	17384	GG	AA	1947060935
SNP_P4_189402_17409	NW_004520098.1	Scaffold6318	17409	GG	AA	1947060937
SNP_P4_189403_17883	NW_004520098.1	Scaffold6318	17883	TT	GG	1947060939
SNP_P4_189404_17888	NW_004520098.1	Scaffold6318	17888	GG	AA	1947060941
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SNP_P4_189406_842	NW_004520099.1	Scaffold6321	842	CC	TT	1947060945
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SNP_P4_189409_1144	NW_004520099.1	Scaffold6321	1144	AA	GG	1947060951
SNP_P4_189410_1147	NW_004520099.1	Scaffold6321	1147	AA	GG	1947060953
SNP_P4_189411_517	NW_004520100.1	Scaffold6322	517	GG	AA	1947060955
SNP_P4_189412_1017	NW_004520100.1	Scaffold6322	1017	GG	CC	1947060957
SNP_P4_189413_4006	NW_004520100.1	Scaffold6322	4006	TT	AA	1947060959
SNP_P4_189414_709	NW_004520101.1	Scaffold6324	709	GG	AA	1947060961
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SNP_P4_189416_2767	NW_004520106.1	Scaffold6330	2767	AA	GG	1947060965
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SNP_P4_189419_803	NW_004520111.1	Scaffold6335	803	AA	GG	1947060971
SNP_P4_189420_819	NW_004520111.1	Scaffold6335	819	AA	CC	1947060973

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_189424_889	NW_004520111.1	Scaffold6335	889	AA	GG	1947060979
SNP_P4_189425_915	NW_004520111.1	Scaffold6335	915	AA	CC	1947060981
SNP_P4_189426_919	NW_004520111.1	Scaffold6335	919	TT	CC	1947060983
SNP_P4_189427_923	NW_004520111.1	Scaffold6335	923	GG	TT	1947060985
SNP_P4_189428_983	NW_004520111.1	Scaffold6335	983	GG	AA	1947060988
SNP_P4_189429_989	NW_004520111.1	Scaffold6335	989	AA	GG	1947060990
SNP_P4_189430_990	NW_004520111.1	Scaffold6335	990	TT	GG	1947060992
SNP_P4_189431_991	NW_004520111.1	Scaffold6335	991	TT	GG	1947060994
SNP_P4_189433_1342	NW_004520114.1	Scaffold6343	1342	GG	TT	1947060996
SNP_P4_189434_2024	NW_004520114.1	Scaffold6343	2024	CC	GG	1947060998
SNP_P4_189435_2080	NW_004520114.1	Scaffold6343	2080	TT	GG	1947061000
SNP_P4_189436_2084	NW_004520114.1	Scaffold6343	2084	CC	GG	1947061002
SNP_P4_189437_2086	NW_004520114.1	Scaffold6343	2086	GG	CC	1947061004
SNP_P4_189438_2137	NW_004520114.1	Scaffold6343	2137	TT	CC	1947061006
SNP_P4_189439_2189	NW_004520114.1	Scaffold6343	2189	AA	CC	1947061008
SNP_P4_189440_204	NW_004520123.1	Scaffold6360	204	AA	CC	1947061010
SNP_P4_189441_488	NW_004520123.1	Scaffold6360	488	TT	AA	1947061012
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SNP_P4_189449_32385	NW_004520126.1	Scaffold6367	32385	GG	AA	1947061029
SNP_P4_189450_32411	NW_004520126.1	Scaffold6367	32411	CC	AA	1947061031
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SNP_P4_189462_32653	NW_004520126.1	Scaffold6367	32653	GG	AA	1947061056
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_189505_496	NW_004520135.1	Scaffold6389	496	TT	CC	1947061140
SNP_P4_189506_512	NW_004520135.1	Scaffold6389	512	CC	TT	1947061142
SNP_P4_189507_536	NW_004520135.1	Scaffold6389	536	AA	GG	1947061144

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_189509_565	NW_004520135.1	Scaffold6389	565	AA	GG	1947061148
SNP_P4_189510_593	NW_004520135.1	Scaffold6389	593	CC	TT	1947061150
SNP_P4_189511_213	NW_004520136.1	Scaffold6391	213	CC	TT	1947061152
SNP_P4_189512_602	NW_004520136.1	Scaffold6391	602	TT	CC	1947061154
SNP_P4_189513_604	NW_004520136.1	Scaffold6391	604	AA	CC	1947061156
SNP_P4_189515_2292	NW_004520136.1	Scaffold6391	2292	TT	CC	1947061158
SNP_P4_189516_2519	NW_004520136.1	Scaffold6391	2519	AA	CC	1947061160
SNP_P4_189517_3124	NW_004520136.1	Scaffold6391	3124	AA	GG	1947061162
SNP_P4_189518_1056	NW_004520138.1	Scaffold6394	1056	TT	AA	1947061164
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SNP_P4_189520_1186	NW_004520138.1	Scaffold6394	1186	GG	AA	1947061168
SNP_P4_189521_1201	NW_004520138.1	Scaffold6394	1201	AA	GG	1947061170
SNP_P4_189522_512	NW_004520144.1	Scaffold6403	512	AA	GG	1947061172
SNP_P4_189523_526	NW_004520144.1	Scaffold6403	526	CC	AA	1947061174
SNP_P4_189524_535	NW_004520144.1	Scaffold6403	535	AA	GG	1947061176
SNP_P4_189525_1303	NW_004520145.1	Scaffold6404	1303	GG	AA	1947061179
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SNP_P4_189530_1837	NW_004520145.1	Scaffold6404	1837	AA	TT	1947061189
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SNP_P4_189532_2285	NW_004520145.1	Scaffold6404	2285	GG	AA	1947061193
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SNP_P4_189534_1917	NW_004520148.1	Scaffold6410	1917	CC	TT	1947061197
SNP_P4_189535_1944	NW_004520148.1	Scaffold6410	1944	GG	AA	1947061199
SNP_P4_189536_1949	NW_004520148.1	Scaffold6410	1949	TT	AA	1947061201
SNP_P4_189537_1982	NW_004520148.1	Scaffold6410	1982	CC	TT	1947061203
SNP_P4_189538_2142	NW_004520148.1	Scaffold6410	2142	AA	TT	1947061205
SNP_P4_189539_2160	NW_004520148.1	Scaffold6410	2160	GG	AA	1947061207
SNP_P4_189540_2169	NW_004520148.1	Scaffold6410	2169	TT	AA	1947061209
SNP_P4_189541_2203	NW_004520148.1	Scaffold6410	2203	TT	CC	1947061211
SNP_P4_189542_2245	NW_004520148.1	Scaffold6410	2245	CC	TT	1947061213
SNP_P4_189543_3582	NW_004520148.1	Scaffold6410	3582	CC	TT	1947061215
SNP_P4_189544_3806	NW_004520148.1	Scaffold6410	3806	TT	AA	1947061217
SNP_P4_189545_3809	NW_004520148.1	Scaffold6410	3809	TT	CC	1947061219
SNP_P4_189546_3832	NW_004520148.1	Scaffold6410	3832	TT	CC	1947061221
SNP_P4_189547_3889	NW_004520148.1	Scaffold6410	3889	AA	GG	1947061223
SNP_P4_189548_3975	NW_004520148.1	Scaffold6410	3975	GG	AA	1947061225
SNP_P4_189549_3976	NW_004520148.1	Scaffold6410	3976	AA	GG	1947061227
SNP_P4_189550_3990	NW_004520148.1	Scaffold6410	3990	TT	GG	1947061229

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_189552_4018	NW_004520148.1	Scaffold6410	4018	CC	GG	1947061233
SNP_P4_189553_4028	NW_004520148.1	Scaffold6410	4028	GG	AA	1947061235
SNP_P4_189554_4135	NW_004520148.1	Scaffold6410	4135	TT	AA	1947061237
SNP_P4_189555_4146	NW_004520148.1	Scaffold6410	4146	GG	CC	1947061239
SNP_P4_189556_4198	NW_004520148.1	Scaffold6410	4198	AA	TT	1947061241
SNP_P4_189557_4236	NW_004520148.1	Scaffold6410	4236	CC	TT	1947061244
SNP_P4_189558_4340	NW_004520148.1	Scaffold6410	4340	AA	GG	1947061246
SNP_P4_189559_761	NW_004520151.1	Scaffold6414	761	CC	AA	1947061248
SNP_P4_189560_144	NW_004520157.1	Scaffold6429	144	CC	AA	1947061250
SNP_P4_189561_145	NW_004520157.1	Scaffold6429	145	TT	CC	1947061252
SNP_P4_189562_147	NW_004520157.1	Scaffold6429	147	AA	TT	1947061254
SNP_P4_189563_165	NW_004520157.1	Scaffold6429	165	TT	GG	1947061256
SNP_P4_189564_244	NW_004520157.1	Scaffold6429	244	AA	GG	1947061258
SNP_P4_189565_361	NW_004520157.1	Scaffold6429	361	GG	TT	1947061260
SNP_P4_189566_670	NW_004520157.1	Scaffold6429	670	GG	CC	1947061262
SNP_P4_189567_1123	NW_004520157.1	Scaffold6429	1123	AA	TT	1947061264
SNP_P4_189568_4267	NW_004520157.1	Scaffold6429	4267	AA	TT	1947061266
SNP_P4_189569_4281	NW_004520157.1	Scaffold6429	4281	AA	GG	1947061268
SNP_P4_189570_4801	NW_004520157.1	Scaffold6429	4801	GG	TT	1947061270
SNP_P4_189572_7276	NW_004520157.1	Scaffold6429	7276	TT	GG	1947061272
SNP_P4_189573_1162	NW_004520158.1	Scaffold6430	1162	GG	AA	1947061274
SNP_P4_189574_2229	NW_004520159.1	Scaffold6432	2229	AA	GG	1947061276
SNP_P4_189575_3188	NW_004520159.1	Scaffold6432	3188	GG	AA	1947061278
SNP_P4_189576_3406	NW_004520159.1	Scaffold6432	3406	CC	AA	1947061280
SNP_P4_189577_3413	NW_004520159.1	Scaffold6432	3413	TT	CC	1947061282
SNP_P4_189578_3532	NW_004520159.1	Scaffold6432	3532	GG	TT	1947061284
SNP_P4_189579_3582	NW_004520159.1	Scaffold6432	3582	CC	TT	1947061286
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SNP_P4_189581_406	NW_004520164.1	Scaffold6437	406	TT	GG	1947061290
SNP_P4_189582_483	NW_004520164.1	Scaffold6437	483	GG	AA	1947061292
SNP_P4_189583_560	NW_004520164.1	Scaffold6437	560	AA	GG	1947061294
SNP_P4_189584_643	NW_004520164.1	Scaffold6437	643	AA	TT	1947061296
SNP_P4_189585_716	NW_004520164.1	Scaffold6437	716	TT	AA	1947061298
SNP_P4_189586_773	NW_004520164.1	Scaffold6437	773	TT	AA	1947061300
SNP_P4_189587_833	NW_004520164.1	Scaffold6437	833	GG	CC	1947061302
SNP_P4_189588_844	NW_004520164.1	Scaffold6437	844	CC	AA	1947061304
SNP_P4_189589_883	NW_004520164.1	Scaffold6437	883	CC	TT	1947061306
SNP_P4_189590_886	NW_004520164.1	Scaffold6437	886	TT	GG	1947061308
SNP_P4_189591_873	NW_004520166.1	Scaffold6440	873	AA	TT	1947061310
SNP_P4_189592_884	NW_004520166.1	Scaffold6440	884	CC	GG	1947061312
SNP_P4_189593_931	NW_004520166.1	Scaffold6440	931	TT	CC	1947061314

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_189595_329	NW_004520172.1	Scaffold6451	329	AA	TT	1947061318
SNP_P4_189596_2585	NW_004520174.1	Scaffold6456	2585	GG	CC	1947061320
SNP_P4_189597_2597	NW_004520174.1	Scaffold6456	2597	GG	AA	1947061322
SNP_P4_189598_2618	NW_004520174.1	Scaffold6456	2618	TT	CC	1947061324
SNP_P4_189599_2620	NW_004520174.1	Scaffold6456	2620	AA	TT	1947061326
SNP_P4_189600_2623	NW_004520174.1	Scaffold6456	2623	TT	CC	1947061328
SNP_P4_189601_2629	NW_004520174.1	Scaffold6456	2629	AA	GG	1947061330
SNP_P4_189602_7952	NW_004520175.1	Scaffold6458	7952	CC	TT	1947061333
SNP_P4_189603_17609	NW_004520175.1	Scaffold6458	17609	AA	GG	1947061335
SNP_P4_189604_17618	NW_004520175.1	Scaffold6458	17618	AA	GG	1947061337
SNP_P4_189605_20664	NW_004520175.1	Scaffold6458	20664	AA	CC	1947061339
SNP_P4_189606_919	NW_004520179.1	Scaffold6465	919	GG	TT	1947061341
SNP_P4_189607_941	NW_004520179.1	Scaffold6465	941	TT	CC	1947061343
SNP_P4_189608_1326	NW_004520179.1	Scaffold6465	1326	CC	TT	1947061345
SNP_P4_189609_841	NW_004520181.1	Scaffold6469	841	GG	CC	1947061347
SNP_P4_189610_1176	NW_004520181.1	Scaffold6469	1176	CC	AA	1947061349
SNP_P4_189611_443	NW_004520185.1	Scaffold6478	443	TT	GG	1947061351
SNP_P4_189612_954	NW_004520185.1	Scaffold6478	954	TT	CC	1947061353
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SNP_P4_189614_1263	NW_004520185.1	Scaffold6478	1263	AA	GG	1947061357
SNP_P4_189615_1293	NW_004520185.1	Scaffold6478	1293	AA	GG	1947061359
SNP_P4_189616_22048	NW_004520185.1	Scaffold6478	22048	GG	AA	1947061361
SNP_P4_189618_122	NW_004520187.1	Scaffold6480	122	GG	AA	1947061363
SNP_P4_189619_143	NW_004520187.1	Scaffold6480	143	CC	GG	1947061365
SNP_P4_189620_158	NW_004520187.1	Scaffold6480	158	AA	GG	1947061367
SNP_P4_189621_160	NW_004520187.1	Scaffold6480	160	AA	GG	1947061369
SNP_P4_189622_299	NW_004520187.1	Scaffold6480	299	CC	TT	1947061371
SNP_P4_189624_436	NW_004520187.1	Scaffold6480	436	TT	CC	1947061373
SNP_P4_189625_512	NW_004520187.1	Scaffold6480	512	TT	AA	1947061375
SNP_P4_189627_585	NW_004520187.1	Scaffold6480	585	AA	TT	1947061377
SNP_P4_189628_607	NW_004520187.1	Scaffold6480	607	GG	AA	1947061379
SNP_P4_189629_638	NW_004520187.1	Scaffold6480	638	AA	TT	1947061381
SNP_P4_189631_751	NW_004520187.1	Scaffold6480	751	CC	TT	1947061383
SNP_P4_189632_861	NW_004520187.1	Scaffold6480	861	GG	TT	1947061385
SNP_P4_189633_878	NW_004520187.1	Scaffold6480	878	GG	CC	1947061387
SNP_P4_189634_887	NW_004520187.1	Scaffold6480	887	CC	GG	1947061389
SNP_P4_189635_967	NW_004520187.1	Scaffold6480	967	CC	TT	1947061391
SNP_P4_189636_993	NW_004520187.1	Scaffold6480	993	GG	AA	1947061393
SNP_P4_189637_1013	NW_004520187.1	Scaffold6480	1013	TT	CC	1947061395
SNP_P4_189638_1032	NW_004520187.1	Scaffold6480	1032	AA	CC	1947061397
SNP_P4_189639_1144	NW_004520187.1	Scaffold6480	1144	TT	CC	1947061399

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_189642_1217	NW_004520187.1	Scaffold6480	1217	AA	GG	1947061405
SNP_P4_189643_1218	NW_004520187.1	Scaffold6480	1218	AA	GG	1947061406
SNP_P4_189644_1337	NW_004520192.1	Scaffold6489	1337	AA	GG	1947061408
SNP_P4_189645_1406	NW_004520192.1	Scaffold6489	1406	AA	TT	1947061410
SNP_P4_189646_1415	NW_004520192.1	Scaffold6489	1415	AA	TT	1947061412
SNP_P4_189647_1441	NW_004520192.1	Scaffold6489	1441	GG	AA	1947061414
SNP_P4_189648_1479	NW_004520192.1	Scaffold6489	1479	GG	AA	1947061416
SNP_P4_189649_1529	NW_004520192.1	Scaffold6489	1529	CC	TT	1947061418
SNP_P4_189650_1986	NW_004520192.1	Scaffold6489	1986	TT	CC	1947061420
SNP_P4_189651_1725	NW_004520194.1	Scaffold6491	1725	TT	AA	1947061422
SNP_P4_189652_302	NW_004520195.1	Scaffold6492	302	TT	AA	1947061424
SNP_P4_189653_412	NW_004520195.1	Scaffold6492	412	CC	TT	1947061426
SNP_P4_189654_604	NW_004520195.1	Scaffold6492	604	AA	GG	1947061428
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SNP_P4_189656_833	NW_004520195.1	Scaffold6492	833	AA	CC	1947061432
SNP_P4_189657_848	NW_004520195.1	Scaffold6492	848	GG	TT	1947061434
SNP_P4_189658_176	NW_004520196.1	Scaffold6493	176	CC	TT	1947061436
SNP_P4_189659_429	NW_004520196.1	Scaffold6493	429	TT	CC	1947061438
SNP_P4_189660_650	NW_004520196.1	Scaffold6493	650	TT	CC	1947061440
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SNP_P4_189663_6009	NW_004520196.1	Scaffold6493	6009	GG	CC	1947061446
SNP_P4_189664_6699	NW_004520196.1	Scaffold6493	6699	AA	TT	1947061448
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SNP_P4_189670_94	NW_004520199.1	Scaffold6496	94	AA	GG	1947061458
SNP_P4_189671_162	NW_004520199.1	Scaffold6496	162	AA	TT	1947061460
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SNP_P4_189674_468	NW_004520199.1	Scaffold6496	468	AA	CC	1947061464
SNP_P4_189675_491	NW_004520199.1	Scaffold6496	491	AA	CC	1947061466
SNP_P4_189676_497	NW_004520199.1	Scaffold6496	497	TT	AA	1947061468
SNP_P4_189677_503	NW_004520199.1	Scaffold6496	503	GG	AA	1947061470
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SNP_P4_189679_816	NW_004520199.1	Scaffold6496	816	CC	TT	1947061474
SNP_P4_189680_836	NW_004520199.1	Scaffold6496	836	AA	CC	1947061476
SNP_P4_189681_842	NW_004520199.1	Scaffold6496	842	AA	TT	1947061478
SNP_P4_189682_845	NW_004520199.1	Scaffold6496	845	AA	CC	1947061480
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_189687_959	NW_004520199.1	Scaffold6496	959	CC	GG	1947061488
SNP_P4_189688_972	NW_004520199.1	Scaffold6496	972	CC	TT	1947061490
SNP_P4_189689_978	NW_004520199.1	Scaffold6496	978	CC	TT	1947061492
SNP_P4_189690_990	NW_004520199.1	Scaffold6496	990	GG	AA	1947061494
SNP_P4_189691_1014	NW_004520199.1	Scaffold6496	1014	GG	AA	1947061496
SNP_P4_189692_1029	NW_004520199.1	Scaffold6496	1029	CC	GG	1947061498
SNP_P4_189693_1044	NW_004520199.1	Scaffold6496	1044	TT	AA	1947061500
SNP_P4_189694_1165	NW_004520199.1	Scaffold6496	1165	TT	AA	1947061502
SNP_P4_189695_1193	NW_004520199.1	Scaffold6496	1193	CC	GG	1947061504
SNP_P4_189696_672	NW_004520200.1	Scaffold6497	672	TT	CC	1947061506
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SNP_P4_189698_1132	NW_004520201.1	Scaffold6498	1132	GG	AA	1947061510
SNP_P4_189699_1185	NW_004520201.1	Scaffold6498	1185	CC	GG	1947061512
SNP_P4_189700_1397	NW_004520201.1	Scaffold6498	1397	AA	GG	1947061514
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SNP_P4_189702_93	NW_004520204.1	Scaffold6505	93	CC	GG	1947061518
SNP_P4_189703_246	NW_004520204.1	Scaffold6505	246	AA	TT	1947061520
SNP_P4_189704_396	NW_004520204.1	Scaffold6505	396	AA	TT	1947061522
SNP_P4_189705_435	NW_004520204.1	Scaffold6505	435	CC	GG	1947061524
SNP_P4_189706_982	NW_004520207.1	Scaffold6509	982	CC	TT	1947061526
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SNP_P4_189709_470	NW_004520210.1	Scaffold6519	470	TT	CC	1947061532
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SNP_P4_189719_1150	NW_004520214.1	Scaffold6525	1150	AA	TT	1947061552
SNP_P4_189720_458	NW_004520215.1	Scaffold6527	458	AA	GG	1947061554
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SNP_P4_189722_641	NW_004520215.1	Scaffold6527	641	TT	CC	1947061558
SNP_P4_189723_646	NW_004520215.1	Scaffold6527	646	TT	CC	1947061560
SNP_P4_189724_670	NW_004520215.1	Scaffold6527	670	AA	GG	1947061562
SNP_P4_189725_824	NW_004520217.1	Scaffold6529	824	TT	CC	1947061564
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SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_189729_1121	NW_004520221.1	Scaffold6537	1121	GG	AA	1947061572
SNP_P4_189730_1264	NW_004520221.1	Scaffold6537	1264	GG	CC	1947061575
SNP_P4_189731_1285	NW_004520221.1	Scaffold6537	1285	TT	CC	1947061576
SNP_P4_189732_1319	NW_004520221.1	Scaffold6537	1319	TT	GG	1947061578
SNP_P4_189733_1324	NW_004520221.1	Scaffold6537	1324	GG	TT	1947061580
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SNP_P4_189736_1608	NW_004520221.1	Scaffold6537	1608	CC	AA	1947061584
SNP_P4_189737_1879	NW_004520221.1	Scaffold6537	1879	GG	AA	1947061586
SNP_P4_189738_2087	NW_004520221.1	Scaffold6537	2087	AA	GG	1947061588
SNP_P4_189739_2161	NW_004520221.1	Scaffold6537	2161	TT	GG	1947061590
SNP_P4_189740_2221	NW_004520221.1	Scaffold6537	2221	TT	CC	1947061592
SNP_P4_189741_2250	NW_004520221.1	Scaffold6537	2250	TT	GG	1947061594
SNP_P4_189742_2346	NW_004520221.1	Scaffold6537	2346	CC	TT	1947061596
SNP_P4_189743_2355	NW_004520221.1	Scaffold6537	2355	CC	GG	1947061598
SNP_P4_189744_2501	NW_004520221.1	Scaffold6537	2501	CC	AA	1947061600
SNP_P4_189745_2538	NW_004520221.1	Scaffold6537	2538	CC	GG	1947061602
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SNP_P4_189747_2686	NW_004520221.1	Scaffold6537	2686	CC	TT	1947061606
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SNP_P4_189749_2875	NW_004520221.1	Scaffold6537	2875	TT	CC	1947061611
SNP_P4_189750_2921	NW_004520221.1	Scaffold6537	2921	CC	GG	1947061613
SNP_P4_189751_765	NW_004520224.1	Scaffold6540	765	TT	CC	1947061615
SNP_P4_189752_817	NW_004520224.1	Scaffold6540	817	GG	CC	1947061617
SNP_P4_189753_844	NW_004520224.1	Scaffold6540	844	AA	GG	1947061619
SNP_P4_189754_874	NW_004520224.1	Scaffold6540	874	AA	GG	1947061621
SNP_P4_189755_935	NW_004520224.1	Scaffold6540	935	AA	GG	1947061623
SNP_P4_189756_1121	NW_004520224.1	Scaffold6540	1121	TT	AA	1947061625
SNP_P4_189757_1216	NW_004520224.1	Scaffold6540	1216	AA	GG	1947061627
SNP_P4_189758_1248	NW_004520224.1	Scaffold6540	1248	TT	CC	1947061629
SNP_P4_189760_691	NW_004520226.1	Scaffold6543	691	TT	GG	1947061631
SNP_P4_189761_1892	NW_004520228.1	Scaffold6546	1892	CC	GG	1947061633
SNP_P4_189762_2003	NW_004520228.1	Scaffold6546	2003	CC	TT	1947061635
SNP_P4_189763_2015	NW_004520228.1	Scaffold6546	2015	GG	TT	1947061637
SNP_P4_189764_2251	NW_004520228.1	Scaffold6546	2251	CC	TT	1947061639
SNP_P4_189765_2316	NW_004520228.1	Scaffold6546	2316	TT	CC	1947061641
SNP_P4_189766_2326	NW_004520228.1	Scaffold6546	2326	AA	CC	1947061643
SNP_P4_189767_2426	NW_004520228.1	Scaffold6546	2426	TT	AA	1947061645
SNP_P4_189768_2460	NW_004520228.1	Scaffold6546	2460	CC	TT	1947061647
SNP_P4_189769_2530	NW_004520228.1	Scaffold6546	2530	CC	AA	1947061649
SNP_P4_189770_2542	NW_004520228.1	Scaffold6546	2542	CC	TT	1947061651

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_189771_2669	NW_004520228.1	Scaffold6546	2669	TT	CC	1947061653
SNP_P4_189772_2856	NW_004520228.1	Scaffold6546	2856	AA	GG	1947061655
SNP_P4_189773_3247	NW_004520228.1	Scaffold6546	3247	CC	TT	1947061657
SNP_P4_189774_7792	NW_004520228.1	Scaffold6546	7792	AA	GG	1947061659
SNP_P4_189775_7857	NW_004520228.1	Scaffold6546	7857	CC	AA	1947061661
SNP_P4_189776_7866	NW_004520228.1	Scaffold6546	7866	TT	GG	1947061663
SNP_P4_189777_7922	NW_004520228.1	Scaffold6546	7922	GG	AA	1947061665
SNP_P4_189778_8006	NW_004520228.1	Scaffold6546	8006	GG	AA	1947061667
SNP_P4_189779_8081	NW_004520228.1	Scaffold6546	8081	AA	CC	1947061669
SNP_P4_189780_8092	NW_004520228.1	Scaffold6546	8092	TT	CC	1947061671
SNP_P4_189781_8145	NW_004520228.1	Scaffold6546	8145	GG	TT	1947061673
SNP_P4_189782_1141	NW_004520231.1	Scaffold6554	1141	GG	AA	1947061675
SNP_P4_189783_308	NW_004520236.1	Scaffold6561	308	CC	GG	1947061677
SNP_P4_189784_473	NW_004520236.1	Scaffold6561	473	AA	TT	1947061679
SNP_P4_189785_560	NW_004520236.1	Scaffold6561	560	AA	GG	1947061681
SNP_P4_189786_602	NW_004520236.1	Scaffold6561	602	AA	GG	1947061683
SNP_P4_189787_810	NW_004520236.1	Scaffold6561	810	TT	GG	1947061685
SNP_P4_189788_843	NW_004520236.1	Scaffold6561	843	AA	TT	1947061687
SNP_P4_189789_846	NW_004520236.1	Scaffold6561	846	AA	GG	1947061689
SNP_P4_189790_860	NW_004520236.1	Scaffold6561	860	TT	GG	1947061691
SNP_P4_189791_871	NW_004520236.1	Scaffold6561	871	GG	AA	1947061693
SNP_P4_189792_879	NW_004520236.1	Scaffold6561	879	TT	CC	1947061695
SNP_P4_189793_925	NW_004520236.1	Scaffold6561	925	TT	AA	1947061697
SNP_P4_189794_927	NW_004520236.1	Scaffold6561	927	AA	TT	1947061699
SNP_P4_189795_950	NW_004520236.1	Scaffold6561	950	AA	GG	1947061701
SNP_P4_189796_983	NW_004520236.1	Scaffold6561	983	CC	TT	1947061703
SNP_P4_189797_1020	NW_004520236.1	Scaffold6561	1020	TT	GG	1947061713
SNP_P4_189798_1128	NW_004520236.1	Scaffold6561	1128	TT	GG	1947061715
SNP_P4_189799_1213	NW_004520236.1	Scaffold6561	1213	CC	TT	1947061717
SNP_P4_189800_1307	NW_004520236.1	Scaffold6561	1307	AA	GG	1947061719
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SNP_P4_189802_1316	NW_004520236.1	Scaffold6561	1316	GG	AA	1947061723
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SNP_P4_189805_1581	NW_004520236.1	Scaffold6561	1581	GG	AA	1947061728
SNP_P4_189806_1638	NW_004520236.1	Scaffold6561	1638	CC	GG	1947061730
SNP_P4_189807_166	NW_004520240.1	Scaffold6566	166	AA	TT	1947061732
SNP_P4_189808_220	NW_004520240.1	Scaffold6566	220	GG	AA	1947061734
SNP_P4_189809_221	NW_004520240.1	Scaffold6566	221	GG	TT	1947061736
SNP_P4_189810_387	NW_004520240.1	Scaffold6566	387	GG	AA	1947061738
SNP_P4_189811_580	NW_004520240.1	Scaffold6566	580	CC	TT	1947061740
SNP_P4_189812_596	NW_004520240.1	Scaffold6566	596	TT	CC	1947061742

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_189814_665	NW_004520240.1	Scaffold6566	665	AA	GG	1947061746
SNP_P4_189815_388	NW_004520241.1	Scaffold6568	388	GG	AA	1947061748
SNP_P4_189818_911	NW_004520241.1	Scaffold6568	911	GG	CC	1947061750
SNP_P4_189819_1130	NW_004520241.1	Scaffold6568	1130	TT	CC	1947061752
SNP_P4_189820_1649	NW_004520241.1	Scaffold6568	1649	TT	CC	1947061753
SNP_P4_189821_1692	NW_004520241.1	Scaffold6568	1692	GG	AA	1947061755
SNP_P4_189822_1782	NW_004520241.1	Scaffold6568	1782	CC	AA	1947061757
SNP_P4_189823_1824	NW_004520241.1	Scaffold6568	1824	CC	TT	1947061759
SNP_P4_189824_2033	NW_004520241.1	Scaffold6568	2033	GG	AA	1947061761
SNP_P4_189825_2291	NW_004520241.1	Scaffold6568	2291	CC	GG	1947061763
SNP_P4_189826_2500	NW_004520241.1	Scaffold6568	2500	CC	TT	1947061765
SNP_P4_189827_1023	NW_004520242.1	Scaffold6569	1023	AA	CC	1947061767
SNP_P4_189828_1224	NW_004520242.1	Scaffold6569	1224	AA	GG	1947061769
SNP_P4_189829_1380	NW_004520242.1	Scaffold6569	1380	CC	TT	1947061771
SNP_P4_189830_1540	NW_004520242.1	Scaffold6569	1540	TT	CC	1947061773
SNP_P4_189831_860	NW_004520245.1	Scaffold6572	860	AA	CC	1947061775
SNP_P4_189832_944	NW_004520245.1	Scaffold6572	944	AA	GG	1947061777
SNP_P4_189833_1036	NW_004520245.1	Scaffold6572	1036	GG	AA	1947061779
SNP_P4_189834_1181	NW_004520245.1	Scaffold6572	1181	GG	AA	1947061781
SNP_P4_189835_1243	NW_004520245.1	Scaffold6572	1243	TT	CC	1947061782
SNP_P4_189836_1398	NW_004520245.1	Scaffold6572	1398	GG	AA	1947061784
SNP_P4_189837_1432	NW_004520245.1	Scaffold6572	1432	AA	CC	1947061786
SNP_P4_189838_1481	NW_004520245.1	Scaffold6572	1481	CC	AA	1947061788
SNP_P4_189839_1482	NW_004520245.1	Scaffold6572	1482	AA	GG	1947061790
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SNP_P4_189841_1583	NW_004520245.1	Scaffold6572	1583	GG	AA	1947061794
SNP_P4_189842_1633	NW_004520245.1	Scaffold6572	1633	GG	AA	1947061796
SNP_P4_189843_1641	NW_004520245.1	Scaffold6572	1641	TT	CC	1947061798
SNP_P4_189844_1795	NW_004520245.1	Scaffold6572	1795	CC	TT	1947061800
SNP_P4_189845_1807	NW_004520245.1	Scaffold6572	1807	TT	CC	1947061801
SNP_P4_189846_1867	NW_004520245.1	Scaffold6572	1867	AA	GG	1947061803
SNP_P4_189847_1953	NW_004520245.1	Scaffold6572	1953	GG	AA	1947061805
SNP_P4_189848_2035	NW_004520245.1	Scaffold6572	2035	CC	TT	1947061807
SNP_P4_189849_2068	NW_004520245.1	Scaffold6572	2068	AA	GG	1947061809
SNP_P4_189850_2108	NW_004520245.1	Scaffold6572	2108	CC	TT	1947061811
SNP_P4_189851_2211	NW_004520245.1	Scaffold6572	2211	CC	TT	1947061813
SNP_P4_189852_2282	NW_004520245.1	Scaffold6572	2282	TT	CC	1947061815
SNP_P4_189853_2342	NW_004520245.1	Scaffold6572	2342	CC	TT	1947061817
SNP_P4_189854_2378	NW_004520245.1	Scaffold6572	2378	GG	AA	1947061819
SNP_P4_189855_2905	NW_004520245.1	Scaffold6572	2905	CC	AA	1947061821
SNP_P4_189856_3054	NW_004520245.1	Scaffold6572	3054	TT	AA	1947061823

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_189858_3646	NW_004520245.1	Scaffold6572	3646	TT	CC	1947061827
SNP_P4_189859_3729	NW_004520245.1	Scaffold6572	3729	GG	AA	1947061829
SNP_P4_189860_3760	NW_004520245.1	Scaffold6572	3760	AA	TT	1947061831
SNP_P4_189861_3772	NW_004520245.1	Scaffold6572	3772	GG	AA	1947061833
SNP_P4_189862_3988	NW_004520245.1	Scaffold6572	3988	GG	TT	1947061835
SNP_P4_189863_4104	NW_004520245.1	Scaffold6572	4104	GG	TT	1947061837
SNP_P4_189864_4361	NW_004520245.1	Scaffold6572	4361	GG	AA	1947061838
SNP_P4_189865_4387	NW_004520245.1	Scaffold6572	4387	GG	AA	1947061840
SNP_P4_189866_4396	NW_004520245.1	Scaffold6572	4396	AA	CC	1947061842
SNP_P4_189867_4403	NW_004520245.1	Scaffold6572	4403	TT	CC	1947061844
SNP_P4_189868_5045	NW_004520245.1	Scaffold6572	5045	TT	CC	1947061846
SNP_P4_189869_5119	NW_004520245.1	Scaffold6572	5119	CC	TT	1947061848
SNP_P4_189870_5184	NW_004520245.1	Scaffold6572	5184	CC	GG	1947061850
SNP_P4_189871_5337	NW_004520245.1	Scaffold6572	5337	CC	TT	1947061852
SNP_P4_189872_5359	NW_004520245.1	Scaffold6572	5359	GG	AA	1947061854
SNP_P4_189873_5559	NW_004520245.1	Scaffold6572	5559	AA	GG	1947061856
SNP_P4_189874_5571	NW_004520245.1	Scaffold6572	5571	AA	GG	1947061858
SNP_P4_189875_5626	NW_004520245.1	Scaffold6572	5626	GG	AA	1947061860
SNP_P4_189876_797	NW_004520250.1	Scaffold6579	797	AA	GG	1947061862
SNP_P4_189877_798	NW_004520250.1	Scaffold6579	798	AA	GG	1947061864
SNP_P4_189878_964	NW_004520250.1	Scaffold6579	964	AA	GG	1947061866
SNP_P4_189879_619	NW_004520252.1	Scaffold6581	619	TT	AA	1947061868
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SNP_P4_189881_182	NW_004520253.1	Scaffold6582	182	TT	AA	1947061872
SNP_P4_189882_224	NW_004520253.1	Scaffold6582	224	TT	CC	1947061874
SNP_P4_189883_230	NW_004520253.1	Scaffold6582	230	AA	GG	1947061876
SNP_P4_189884_250	NW_004520253.1	Scaffold6582	250	AA	TT	1947061877
SNP_P4_189885_280	NW_004520253.1	Scaffold6582	280	TT	GG	1947061879
SNP_P4_189886_293	NW_004520253.1	Scaffold6582	293	AA	TT	1947061881
SNP_P4_189887_423	NW_004520253.1	Scaffold6582	423	AA	GG	1947061883
SNP_P4_189888_457	NW_004520253.1	Scaffold6582	457	CC	TT	1947061885
SNP_P4_189889_728	NW_004520253.1	Scaffold6582	728	AA	GG	1947061887
SNP_P4_189890_752	NW_004520258.1	Scaffold6590	752	TT	GG	1947061889
SNP_P4_189891_818	NW_004520258.1	Scaffold6590	818	TT	CC	1947061891
SNP_P4_189892_830	NW_004520258.1	Scaffold6590	830	TT	GG	1947061893
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SNP_P4_189894_915	NW_004520258.1	Scaffold6590	915	CC	TT	1947061897
SNP_P4_189895_926	NW_004520258.1	Scaffold6590	926	AA	CC	1947061899
SNP_P4_189896_1024	NW_004520258.1	Scaffold6590	1024	AA	TT	1947061900
SNP_P4_189897_1342	NW_004520258.1	Scaffold6590	1342	TT	AA	1947061902
SNP_P4_189898_1665	NW_004520258.1	Scaffold6590	1665	AA	TT	1947061904

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_189900_1102	NW_004520260.1	Scaffold6593	1102	AA	CC	1947061908
SNP_P4_189901_742	NW_004520261.1	Scaffold6594	742	GG	TT	1947061910
SNP_P4_189902_760	NW_004520261.1	Scaffold6594	760	GG	AA	1947061912
SNP_P4_189903_761	NW_004520261.1	Scaffold6594	761	AA	CC	1947061914
SNP_P4_189904_763	NW_004520261.1	Scaffold6594	763	AA	GG	1947061916
SNP_P4_189905_964	NW_004520261.1	Scaffold6594	964	CC	TT	1947061918
SNP_P4_189906_1045	NW_004520261.1	Scaffold6594	1045	GG	TT	1947061920
SNP_P4_189907_1108	NW_004520261.1	Scaffold6594	1108	GG	AA	1947061922
SNP_P4_189908_1134	NW_004520261.1	Scaffold6594	1134	TT	AA	1947061924
SNP_P4_189909_185	NW_004520262.1	Scaffold6597	185	AA	TT	1947061926
SNP_P4_189910_253	NW_004520262.1	Scaffold6597	253	AA	GG	1947061928
SNP_P4_189911_413	NW_004520262.1	Scaffold6597	413	GG	TT	1947061930
SNP_P4_189912_481	NW_004520262.1	Scaffold6597	481	GG	CC	1947061932
SNP_P4_189913_528	NW_004520262.1	Scaffold6597	528	GG	AA	1947061933
SNP_P4_189914_592	NW_004520262.1	Scaffold6597	592	TT	CC	1947061935
SNP_P4_189915_487	NW_004520266.1	Scaffold6603	487	CC	GG	1947061937
SNP_P4_189916_1110	NW_004520267.1	Scaffold6606	1110	CC	TT	1947061939
SNP_P4_189917_1467	NW_004520267.1	Scaffold6606	1467	GG	AA	1947061941
SNP_P4_189918_14936	NW_004520269.1	Scaffold6610	14936	TT	AA	1947061943
SNP_P4_189919_16504	NW_004520269.1	Scaffold6610	16504	GG	TT	1947061945
SNP_P4_189920_16533	NW_004520269.1	Scaffold6610	16533	AA	TT	1947061947
SNP_P4_189922_136	NW_004520272.1	Scaffold6613	136	CC	GG	1947061949
SNP_P4_189923_148	NW_004520272.1	Scaffold6613	148	AA	GG	1947061951
SNP_P4_189924_398	NW_004520272.1	Scaffold6613	398	CC	TT	1947061953
SNP_P4_189925_421	NW_004520272.1	Scaffold6613	421	TT	AA	1947061955
SNP_P4_189926_712	NW_004520272.1	Scaffold6613	712	AA	CC	1947061957
SNP_P4_189927_713	NW_004520272.1	Scaffold6613	713	AA	TT	1947061959
SNP_P4_189928_21297	NW_004520275.1	Scaffold6617	21297	AA	GG	1947061961
SNP_P4_189930_415	NW_004520281.1	Scaffold6623	415	GG	CC	1947061963
SNP_P4_189931_554	NW_004520281.1	Scaffold6623	554	TT	GG	1947061965
SNP_P4_189932_633	NW_004520281.1	Scaffold6623	633	GG	CC	1947061967
SNP_P4_189933_652	NW_004520281.1	Scaffold6623	652	AA	TT	1947061969
SNP_P4_189934_674	NW_004520281.1	Scaffold6623	674	CC	AA	1947061971
SNP_P4_189935_695	NW_004520284.1	Scaffold6627	695	AA	GG	1947061973
SNP_P4_189936_473	NW_004520285.1	Scaffold6628	473	CC	GG	1947061975
SNP_P4_189937_3529	NW_004520288.1	Scaffold6637	3529	CC	GG	1947061977
SNP_P4_189938_3609	NW_004520288.1	Scaffold6637	3609	CC	TT	1947061979
SNP_P4_189939_250	NW_004520291.1	Scaffold6646	250	CC	GG	1947061981
SNP_P4_189940_429	NW_004520291.1	Scaffold6646	429	GG	TT	1947061983
SNP_P4_189941_463	NW_004520291.1	Scaffold6646	463	TT	AA	1947061985
SNP_P4_189942_479	NW_004520291.1	Scaffold6646	479	GG	AA	1947061987

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_189944_809	NW_004520291.1	Scaffold6646	809	TT	AA	1947061991
SNP_P4_189945_1097	NW_004520291.1	Scaffold6646	1097	CC	TT	1947061993
SNP_P4_189946_1113	NW_004520291.1	Scaffold6646	1113	AA	GG	1947061995
SNP_P4_189947_1488	NW_004520291.1	Scaffold6646	1488	TT	CC	1947061997
SNP_P4_189948_1490	NW_004520291.1	Scaffold6646	1490	GG	CC	1947061999
SNP_P4_189949_1498	NW_004520291.1	Scaffold6646	1498	CC	TT	1947062001
SNP_P4_189950_1644	NW_004520291.1	Scaffold6646	1644	CC	TT	1947062003
SNP_P4_189951_1656	NW_004520291.1	Scaffold6646	1656	CC	TT	1947062005
SNP_P4_189952_1881	NW_004520291.1	Scaffold6646	1881	AA	TT	1947062007
SNP_P4_189953_1903	NW_004520291.1	Scaffold6646	1903	GG	CC	1947062009
SNP_P4_189954_2019	NW_004520291.1	Scaffold6646	2019	AA	TT	1947062011
SNP_P4_189955_2062	NW_004520291.1	Scaffold6646	2062	TT	GG	1947062013
SNP_P4_189957_956	NW_004520293.1	Scaffold6653	956	CC	TT	1947062015
SNP_P4_189958_1507	NW_004520293.1	Scaffold6653	1507	AA	CC	1947062017
SNP_P4_189959_1542	NW_004520293.1	Scaffold6653	1542	TT	CC	1947062019
SNP_P4_189960_291	NW_004520295.1	Scaffold6657	291	AA	GG	1947062021
SNP_P4_189961_3033	NW_004520300.1	Scaffold6663	3033	GG	CC	1947062023
SNP_P4_189962_787	NW_004520304.1	Scaffold6669	787	TT	CC	1947062025
SNP_P4_189963_64	NW_004520305.1	Scaffold6671	64	TT	AA	1947062027
SNP_P4_189964_142	NW_004520305.1	Scaffold6671	142	CC	AA	1947062029
SNP_P4_189965_175	NW_004520305.1	Scaffold6671	175	AA	GG	1947062031
SNP_P4_189966_409	NW_004520305.1	Scaffold6671	409	GG	AA	1947062033
SNP_P4_189967_1135	NW_004520305.1	Scaffold6671	1135	CC	TT	1947062035
SNP_P4_189968_739	NW_004520306.1	Scaffold6672	739	TT	AA	1947062037
SNP_P4_189969_835	NW_004520306.1	Scaffold6672	835	GG	AA	1947062039
SNP_P4_189970_1068	NW_004520306.1	Scaffold6672	1068	AA	GG	1947062041
SNP_P4_189973_226	NW_004520307.1	Scaffold6673	226	TT	CC	1947062043
SNP_P4_189974_329	NW_004520307.1	Scaffold6673	329	TT	AA	1947062045
SNP_P4_189975_331	NW_004520307.1	Scaffold6673	331	TT	AA	1947062047
SNP_P4_189976_445	NW_004520307.1	Scaffold6673	445	TT	CC	1947062049
SNP_P4_189977_494	NW_004520307.1	Scaffold6673	494	AA	CC	1947062051
SNP_P4_189978_564	NW_004520307.1	Scaffold6673	564	CC	AA	1947062053
SNP_P4_189979_650	NW_004520307.1	Scaffold6673	650	CC	TT	1947062055
SNP_P4_189980_663	NW_004520307.1	Scaffold6673	663	GG	AA	1947062057
SNP_P4_189981_823	NW_004520307.1	Scaffold6673	823	CC	TT	1947062059
SNP_P4_189982_934	NW_004520307.1	Scaffold6673	934	AA	GG	1947062061
SNP_P4_189983_1107	NW_004520307.1	Scaffold6673	1107	AA	GG	1947062063
SNP_P4_189984_562	NW_004520317.1	Scaffold6687	562	GG	TT	1947062065
SNP_P4_189985_4081	NW_004520317.1	Scaffold6687	4081	AA	GG	1947062067
SNP_P4_189986_11796	NW_004520317.1	Scaffold6687	11796	AA	GG	1947062069
SNP_P4_189987_11813	NW_004520317.1	Scaffold6687	11813	TT	CC	1947062071

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_189988_11826	NW_004520317.1	Scaffold6687	11826	GG	TT	1947062073
SNP_P4_189989_12892	NW_004520317.1	Scaffold6687	12892	TT	GG	1947062075
SNP_P4_189990_13947	NW_004520317.1	Scaffold6687	13947	GG	TT	1947062077
SNP_P4_189991_14297	NW_004520317.1	Scaffold6687	14297	TT	CC	1947062079
SNP_P4_189992_14639	NW_004520317.1	Scaffold6687	14639	AA	GG	1947062081
SNP_P4_189993_826	NW_004520321.1	Scaffold6694	826	TT	GG	1947062083
SNP_P4_189994_851	NW_004520321.1	Scaffold6694	851	CC	AA	1947062085
SNP_P4_189995_1584	NW_004520321.1	Scaffold6694	1584	GG	AA	1947062087
SNP_P4_189996_1626	NW_004520321.1	Scaffold6694	1626	CC	AA	1947062089
SNP_P4_189998_2027	NW_004520321.1	Scaffold6694	2027	GG	TT	1947062091
SNP_P4_189999_2072	NW_004520321.1	Scaffold6694	2072	AA	TT	1947062093
SNP_P4_190001_2280	NW_004520321.1	Scaffold6694	2280	GG	AA	1947062095
SNP_P4_190002_2341	NW_004520321.1	Scaffold6694	2341	TT	CC	1947062097
SNP_P4_190003_64	NW_004520322.1	Scaffold6695	64	CC	GG	1947062099
SNP_P4_190004_669	NW_004520322.1	Scaffold6695	669	AA	GG	1947062101
SNP_P4_190006_710	NW_004520322.1	Scaffold6695	710	TT	CC	1947062103
SNP_P4_190008_782	NW_004520322.1	Scaffold6695	782	CC	TT	1947062105
SNP_P4_190009_879	NW_004520322.1	Scaffold6695	879	TT	GG	1947062107
SNP_P4_190010_1143	NW_004520322.1	Scaffold6695	1143	TT	GG	1947062109
SNP_P4_190011_1156	NW_004520322.1	Scaffold6695	1156	TT	GG	1947062111
SNP_P4_190012_1172	NW_004520322.1	Scaffold6695	1172	GG	TT	1947062113
SNP_P4_190013_1248	NW_004520322.1	Scaffold6695	1248	TT	CC	1947062115
SNP_P4_190014_939	NW_004520323.1	Scaffold6696	939	AA	TT	1947062117
SNP_P4_190015_952	NW_004520323.1	Scaffold6696	952	AA	TT	1947062119
SNP_P4_190016_983	NW_004520323.1	Scaffold6696	983	CC	TT	1947062121
SNP_P4_190017_1000	NW_004520323.1	Scaffold6696	1000	TT	CC	1947062123
SNP_P4_190018_1049	NW_004520323.1	Scaffold6696	1049	TT	CC	1947062125
SNP_P4_190019_1165	NW_004520323.1	Scaffold6696	1165	TT	CC	1947062127
SNP_P4_190020_1485	NW_004520323.1	Scaffold6696	1485	TT	CC	1947062129
SNP_P4_190021_1521	NW_004520323.1	Scaffold6696	1521	AA	GG	1947062131
SNP_P4_190022_1537	NW_004520323.1	Scaffold6696	1537	GG	AA	1947062133
SNP_P4_190023_2761	NW_004520323.1	Scaffold6696	2761	TT	CC	1947062135
SNP_P4_190024_64	NW_004520327.1	Scaffold6700	64	AA	CC	1947062137
SNP_P4_190025_78	NW_004520327.1	Scaffold6700	78	CC	GG	1947062139
SNP_P4_190026_90	NW_004520327.1	Scaffold6700	90	TT	AA	1947062141
SNP_P4_190027_144	NW_004520327.1	Scaffold6700	144	CC	TT	1947062143
SNP_P4_190028_202	NW_004520327.1	Scaffold6700	202	GG	AA	1947062145
SNP_P4_190029_210	NW_004520327.1	Scaffold6700	210	AA	GG	1947062147
SNP_P4_190030_228	NW_004520327.1	Scaffold6700	228	AA	GG	1947062155
SNP_P4_190031_303	NW_004520327.1	Scaffold6700	303	GG	AA	1947062157
SNP_P4_190032_361	NW_004520327.1	Scaffold6700	361	AA	GG	1947062159
SNP_P4_190033_384	NW_004520327.1	Scaffold6700	384	TT	GG	1947062161

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_190035_411	NW_004520327.1	Scaffold6700	411	TT	AA	1947062165
SNP_P4_190036_527	NW_004520327.1	Scaffold6700	527	TT	CC	1947062167
SNP_P4_190037_536	NW_004520327.1	Scaffold6700	536	AA	GG	1947062169
SNP_P4_190038_568	NW_004520327.1	Scaffold6700	568	AA	TT	1947062171
SNP_P4_190039_574	NW_004520327.1	Scaffold6700	574	TT	CC	1947062173
SNP_P4_190040_635	NW_004520327.1	Scaffold6700	635	GG	AA	1947062175
SNP_P4_190041_661	NW_004520327.1	Scaffold6700	661	TT	CC	1947062177
SNP_P4_190042_719	NW_004520327.1	Scaffold6700	719	AA	GG	1947062179
SNP_P4_190043_738	NW_004520327.1	Scaffold6700	738	TT	CC	1947062181
SNP_P4_190044_858	NW_004520327.1	Scaffold6700	858	AA	GG	1947062183
SNP_P4_190045_1005	NW_004520327.1	Scaffold6700	1005	CC	TT	1947062186
SNP_P4_190046_1007	NW_004520327.1	Scaffold6700	1007	AA	GG	1947062188
SNP_P4_190047_1174	NW_004520327.1	Scaffold6700	1174	GG	AA	1947062190
SNP_P4_190048_800	NW_004520328.1	Scaffold6704	800	CC	TT	1947062192
SNP_P4_190049_261	NW_004520329.1	Scaffold6707	261	AA	CC	1947062194
SNP_P4_190050_836	NW_004520330.1	Scaffold6709	836	CC	AA	1947062203
SNP_P4_190051_1008	NW_004520331.1	Scaffold6710	1008	TT	GG	1947062205
SNP_P4_190052_2102	NW_004520333.1	Scaffold6714	2102	AA	TT	1947062206
SNP_P4_190053_2123	NW_004520333.1	Scaffold6714	2123	AA	GG	1947062208
SNP_P4_190057_639	NW_004520337.1	Scaffold6720	639	TT	GG	1947062210
SNP_P4_190058_4485	NW_004520337.1	Scaffold6720	4485	TT	AA	1947062211
SNP_P4_190059_4664	NW_004520337.1	Scaffold6720	4664	GG	TT	1947062212
SNP_P4_190062_5333	NW_004520337.1	Scaffold6720	5333	AA	TT	1947062214
SNP_P4_190063_5348	NW_004520337.1	Scaffold6720	5348	CC	TT	1947062216
SNP_P4_190064_684	NW_004520338.1	Scaffold6721	684	TT	AA	1947062218
SNP_P4_190065_2205	NW_004520338.1	Scaffold6721	2205	GG	TT	1947062220
SNP_P4_190066_2250	NW_004520338.1	Scaffold6721	2250	AA	TT	1947062222
SNP_P4_190067_454	NW_004520339.1	Scaffold6722	454	CC	GG	1947062224
SNP_P4_190068_557	NW_004520339.1	Scaffold6722	557	CC	TT	1947062226
SNP_P4_190069_772	NW_004520339.1	Scaffold6722	772	CC	TT	1947062228
SNP_P4_190070_783	NW_004520339.1	Scaffold6722	783	GG	TT	1947062230
SNP_P4_190071_799	NW_004520339.1	Scaffold6722	799	GG	CC	1947062232
SNP_P4_190072_830	NW_004520339.1	Scaffold6722	830	GG	TT	1947062234
SNP_P4_190073_894	NW_004520339.1	Scaffold6722	894	TT	GG	1947062236
SNP_P4_190074_1120	NW_004520339.1	Scaffold6722	1120	GG	AA	1947062238
SNP_P4_190075_1202	NW_004520339.1	Scaffold6722	1202	AA	CC	1947062255
SNP_P4_190076_1309	NW_004520339.1	Scaffold6722	1309	AA	GG	1947062258
SNP_P4_190077_1472	NW_004520339.1	Scaffold6722	1472	TT	CC	1947062260
SNP_P4_190078_1478	NW_004520339.1	Scaffold6722	1478	TT	GG	1947062262
SNP_P4_190079_1524	NW_004520339.1	Scaffold6722	1524	GG	AA	1947062264
SNP_P4_190080_1552	NW_004520339.1	Scaffold6722	1552	AA	GG	1947062266

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_190083_1948	NW_004520339.1	Scaffold6722	1948	TT	CC	1947062270
SNP_P4_190084_158	NW_004520340.1	Scaffold6725	158	TT	AA	1947062272
SNP_P4_190085_225	NW_004520340.1	Scaffold6725	225	TT	CC	1947062274
SNP_P4_190086_548	NW_004520340.1	Scaffold6725	548	AA	GG	1947062275
SNP_P4_190087_586	NW_004520340.1	Scaffold6725	586	TT	AA	1947062276
SNP_P4_190088_587	NW_004520340.1	Scaffold6725	587	GG	TT	1947062277
SNP_P4_190089_750	NW_004520340.1	Scaffold6725	750	AA	TT	1947062278
SNP_P4_190090_751	NW_004520340.1	Scaffold6725	751	TT	GG	1947062279
SNP_P4_190091_752	NW_004520340.1	Scaffold6725	752	GG	TT	1947062280
SNP_P4_190092_766	NW_004520340.1	Scaffold6725	766	CC	GG	1947062281
SNP_P4_190093_787	NW_004520340.1	Scaffold6725	787	GG	AA	1947062282
SNP_P4_190094_815	NW_004520340.1	Scaffold6725	815	GG	TT	1947062283
SNP_P4_190095_882	NW_004520340.1	Scaffold6725	882	GG	AA	1947062284
SNP_P4_190096_941	NW_004520340.1	Scaffold6725	941	AA	GG	1947062285
SNP_P4_190097_1011	NW_004520340.1	Scaffold6725	1011	AA	GG	1947062286
SNP_P4_190098_1454	NW_004520340.1	Scaffold6725	1454	AA	CC	1947062287
SNP_P4_190099_1688	NW_004520340.1	Scaffold6725	1688	AA	TT	1947062288
SNP_P4_190100_1700	NW_004520340.1	Scaffold6725	1700	AA	CC	1947062289
SNP_P4_190101_1766	NW_004520340.1	Scaffold6725	1766	AA	TT	1947062290
SNP_P4_190102_1790	NW_004520340.1	Scaffold6725	1790	GG	TT	1947062291
SNP_P4_190103_1791	NW_004520340.1	Scaffold6725	1791	CC	TT	1947062292
SNP_P4_190104_1909	NW_004520340.1	Scaffold6725	1909	TT	AA	1947062293
SNP_P4_190105_1979	NW_004520340.1	Scaffold6725	1979	CC	TT	1947062294
SNP_P4_190106_1992	NW_004520340.1	Scaffold6725	1992	CC	GG	1947062295
SNP_P4_190107_2013	NW_004520340.1	Scaffold6725	2013	AA	GG	1947062296
SNP_P4_190108_2014	NW_004520340.1	Scaffold6725	2014	AA	TT	1947062297
SNP_P4_190109_2041	NW_004520340.1	Scaffold6725	2041	CC	TT	1947062298
SNP_P4_190110_221	NW_004520341.1	Scaffold6728	221	GG	CC	1947062299
SNP_P4_190111_258	NW_004520341.1	Scaffold6728	258	AA	GG	1947062300
SNP_P4_190112_4934	NW_004520341.1	Scaffold6728	4934	CC	GG	1947062301
SNP_P4_190113_9297	NW_004520341.1	Scaffold6728	9297	TT	AA	1947062302
SNP_P4_190114_9508	NW_004520341.1	Scaffold6728	9508	AA	TT	1947062303
SNP_P4_190115_9598	NW_004520341.1	Scaffold6728	9598	AA	CC	1947062304
SNP_P4_190116_9604	NW_004520341.1	Scaffold6728	9604	TT	GG	1947062305
SNP_P4_190117_9605	NW_004520341.1	Scaffold6728	9605	GG	AA	1947062306
SNP_P4_190119_378	NW_004520343.1	Scaffold6731	378	TT	CC	1947062307
SNP_P4_190120_1267	NW_004520343.1	Scaffold6731	1267	TT	CC	1947062308
SNP_P4_190121_100	NW_004520345.1	Scaffold6734	100	AA	CC	1947062310
SNP_P4_190122_240	NW_004520345.1	Scaffold6734	240	TT	GG	1947062312
SNP_P4_190123_699	NW_004520345.1	Scaffold6734	699	TT	AA	1947062314
SNP_P4_190124_700	NW_004520345.1	Scaffold6734	700	TT	AA	1947062316

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_190126_1273	NW_004520347.1	Scaffold6737	1273	CC	GG	1947062320
SNP_P4_190127_1790	NW_004520347.1	Scaffold6737	1790	GG	AA	1947062322
SNP_P4_190128_1822	NW_004520347.1	Scaffold6737	1822	TT	CC	1947062324
SNP_P4_190129_1974	NW_004520347.1	Scaffold6737	1974	AA	TT	1947062326
SNP_P4_190130_2019	NW_004520347.1	Scaffold6737	2019	TT	GG	1947062328
SNP_P4_190131_2123	NW_004520347.1	Scaffold6737	2123	GG	CC	1947062330
SNP_P4_190132_2454	NW_004520347.1	Scaffold6737	2454	AA	GG	1947062332
SNP_P4_190133_2517	NW_004520347.1	Scaffold6737	2517	CC	TT	1947062334
SNP_P4_190134_2660	NW_004520347.1	Scaffold6737	2660	GG	TT	1947062336
SNP_P4_190135_2721	NW_004520347.1	Scaffold6737	2721	TT	CC	1947062338
SNP_P4_190136_3354	NW_004520347.1	Scaffold6737	3354	AA	GG	1947062340
SNP_P4_190137_3463	NW_004520347.1	Scaffold6737	3463	TT	CC	1947062342
SNP_P4_190138_3647	NW_004520347.1	Scaffold6737	3647	TT	CC	1947062344
SNP_P4_190139_3652	NW_004520347.1	Scaffold6737	3652	TT	AA	1947062346
SNP_P4_190140_3754	NW_004520347.1	Scaffold6737	3754	CC	GG	1947062348
SNP_P4_190141_3818	NW_004520347.1	Scaffold6737	3818	TT	GG	1947062350
SNP_P4_190142_3845	NW_004520347.1	Scaffold6737	3845	AA	GG	1947062352
SNP_P4_190143_3906	NW_004520347.1	Scaffold6737	3906	AA	CC	1947062354
SNP_P4_190144_3910	NW_004520347.1	Scaffold6737	3910	AA	CC	1947062356
SNP_P4_190145_3914	NW_004520347.1	Scaffold6737	3914	CC	GG	1947062359
SNP_P4_190146_3960	NW_004520347.1	Scaffold6737	3960	CC	GG	1947062361
SNP_P4_190147_4063	NW_004520347.1	Scaffold6737	4063	CC	TT	1947062363
SNP_P4_190148_4516	NW_004520347.1	Scaffold6737	4516	TT	GG	1947062365
SNP_P4_190149_4539	NW_004520347.1	Scaffold6737	4539	GG	AA	1947062367
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SNP_P4_190151_5232	NW_004520347.1	Scaffold6737	5232	AA	GG	1947062371
SNP_P4_190152_5280	NW_004520347.1	Scaffold6737	5280	TT	AA	1947062373
SNP_P4_190153_5291	NW_004520347.1	Scaffold6737	5291	CC	AA	1947062375
SNP_P4_190154_5560	NW_004520347.1	Scaffold6737	5560	CC	GG	1947062377
SNP_P4_190155_6268	NW_004520347.1	Scaffold6737	6268	AA	CC	1947062379
SNP_P4_190156_6647	NW_004520347.1	Scaffold6737	6647	AA	GG	1947062381
SNP_P4_190157_437	NW_004520348.1	Scaffold6738	437	TT	GG	1947062383
SNP_P4_190158_572	NW_004520348.1	Scaffold6738	572	AA	CC	1947062385
SNP_P4_190159_596	NW_004520348.1	Scaffold6738	596	AA	GG	1947062387
SNP_P4_190161_4393	NW_004520354.1	Scaffold6750	4393	AA	TT	1947062389
SNP_P4_190162_4424	NW_004520354.1	Scaffold6750	4424	GG	AA	1947062391
SNP_P4_190163_5692	NW_004520354.1	Scaffold6750	5692	AA	GG	1947062393
SNP_P4_190164_5702	NW_004520354.1	Scaffold6750	5702	CC	TT	1947062395
SNP_P4_190165_5726	NW_004520354.1	Scaffold6750	5726	GG	AA	1947062397
SNP_P4_190167_6611	NW_004520354.1	Scaffold6750	6611	TT	CC	1947062399
SNP_P4_190168_592	NW_004520359.1	Scaffold6759	592	TT	AA	1947062401

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_190170_77	NW_004520360.1	Scaffold6760	77	GG	AA	1947062405
SNP_P4_190171_82	NW_004520360.1	Scaffold6760	82	CC	GG	1947062407
SNP_P4_190172_132	NW_004520360.1	Scaffold6760	132	CC	TT	1947062409
SNP_P4_190173_195	NW_004520360.1	Scaffold6760	195	TT	AA	1947062411
SNP_P4_190174_249	NW_004520360.1	Scaffold6760	249	CC	TT	1947062413
SNP_P4_190175_370	NW_004520360.1	Scaffold6760	370	GG	TT	1947062415
SNP_P4_190176_416	NW_004520360.1	Scaffold6760	416	AA	TT	1947062417
SNP_P4_190177_451	NW_004520360.1	Scaffold6760	451	TT	AA	1947062419
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SNP_P4_190179_503	NW_004520360.1	Scaffold6760	503	AA	GG	1947062423
SNP_P4_190180_514	NW_004520360.1	Scaffold6760	514	AA	GG	1947062425
SNP_P4_190181_613	NW_004520360.1	Scaffold6760	613	TT	AA	1947062427
SNP_P4_190182_619	NW_004520360.1	Scaffold6760	619	CC	TT	1947062429
SNP_P4_190183_674	NW_004520360.1	Scaffold6760	674	TT	GG	1947062431
SNP_P4_190184_701	NW_004520360.1	Scaffold6760	701	GG	TT	1947062433
SNP_P4_190185_788	NW_004520360.1	Scaffold6760	788	CC	TT	1947062435
SNP_P4_190186_814	NW_004520360.1	Scaffold6760	814	TT	CC	1947062437
SNP_P4_190187_873	NW_004520360.1	Scaffold6760	873	TT	CC	1947062439
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SNP_P4_190190_932	NW_004520360.1	Scaffold6760	932	GG	TT	1947062443
SNP_P4_190191_944	NW_004520360.1	Scaffold6760	944	GG	AA	1947062445
SNP_P4_190192_1007	NW_004520360.1	Scaffold6760	1007	GG	TT	1947062447
SNP_P4_190194_1190	NW_004520360.1	Scaffold6760	1190	AA	TT	1947062449
SNP_P4_190195_1200	NW_004520360.1	Scaffold6760	1200	AA	GG	1947062451
SNP_P4_190196_1371	NW_004520365.1	Scaffold6772	1371	AA	GG	1947062453
SNP_P4_190197_1405	NW_004520365.1	Scaffold6772	1405	TT	AA	1947062455
SNP_P4_190198_116	NW_004520366.1	Scaffold6773	116	AA	TT	1947062457
SNP_P4_190199_500	NW_004520366.1	Scaffold6773	500	TT	CC	1947062459
SNP_P4_190200_539	NW_004520366.1	Scaffold6773	539	TT	CC	1947062461
SNP_P4_190201_567	NW_004520366.1	Scaffold6773	567	AA	TT	1947062463
SNP_P4_190202_593	NW_004520366.1	Scaffold6773	593	GG	AA	1947062464
SNP_P4_190203_64	NW_004520368.1	Scaffold6775	64	GG	TT	1947062465
SNP_P4_190204_85	NW_004520368.1	Scaffold6775	85	TT	GG	1947062466
SNP_P4_190205_146	NW_004520368.1	Scaffold6775	146	CC	AA	1947062467
SNP_P4_190206_7186	NW_004520369.1	Scaffold6778	7186	GG	AA	1947062468
SNP_P4_190207_7198	NW_004520369.1	Scaffold6778	7198	GG	TT	1947062469
SNP_P4_190208_11269	NW_004520369.1	Scaffold6778	11269	AA	GG	1947062471
SNP_P4_190209_11326	NW_004520369.1	Scaffold6778	11326	TT	AA	1947062473
SNP_P4_190210_11338	NW_004520369.1	Scaffold6778	11338	GG	AA	1947062475
SNP_P4_190211_11414	NW_004520369.1	Scaffold6778	11414	GG	CC	1947062477
SNP_P4_190212_11533	NW_004520369.1	Scaffold6778	11533	GG	AA	1947062479

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_190214_11693	NW_004520369.1	Scaffold6778	11693	TT	CC	1947062483
SNP_P4_190215_11731	NW_004520369.1	Scaffold6778	11731	GG	CC	1947062485
SNP_P4_190216_11795	NW_004520369.1	Scaffold6778	11795	AA	TT	1947062487
SNP_P4_190217_202	NW_004520371.1	Scaffold6782	202	AA	TT	1947062489
SNP_P4_190218_307	NW_004520371.1	Scaffold6782	307	AA	GG	1947062491
SNP_P4_190219_384	NW_004520371.1	Scaffold6782	384	TT	CC	1947062493
SNP_P4_190220_425	NW_004520371.1	Scaffold6782	425	CC	AA	1947062495
SNP_P4_190222_724	NW_004520371.1	Scaffold6782	724	CC	TT	1947062497
SNP_P4_190224_775	NW_004520371.1	Scaffold6782	775	GG	AA	1947062499
SNP_P4_190228_1243	NW_004520371.1	Scaffold6782	1243	CC	TT	1947062501
SNP_P4_190229_64	NW_004520372.1	Scaffold6784	64	AA	GG	1947062503
SNP_P4_190230_271	NW_004520372.1	Scaffold6784	271	TT	AA	1947062505
SNP_P4_190231_296	NW_004520372.1	Scaffold6784	296	GG	AA	1947062507
SNP_P4_190232_232	NW_004520376.1	Scaffold6790	232	TT	GG	1947062509
SNP_P4_190233_259	NW_004520376.1	Scaffold6790	259	TT	CC	1947062511
SNP_P4_190234_503	NW_004520376.1	Scaffold6790	503	CC	AA	1947062513
SNP_P4_190235_555	NW_004520376.1	Scaffold6790	555	CC	TT	1947062515
SNP_P4_190236_580	NW_004520376.1	Scaffold6790	580	GG	AA	1947062517
SNP_P4_190239_1052	NW_004520376.1	Scaffold6790	1052	GG	TT	1947062519
SNP_P4_190240_1060	NW_004520376.1	Scaffold6790	1060	GG	AA	1947062521
SNP_P4_190241_1114	NW_004520376.1	Scaffold6790	1114	AA	CC	1947062523
SNP_P4_190242_1123	NW_004520376.1	Scaffold6790	1123	CC	TT	1947062525
SNP_P4_190243_1149	NW_004520376.1	Scaffold6790	1149	CC	TT	1947062527
SNP_P4_190244_1157	NW_004520376.1	Scaffold6790	1157	CC	TT	1947062529
SNP_P4_190245_1222	NW_004520376.1	Scaffold6790	1222	CC	AA	1947062531
SNP_P4_190246_1306	NW_004520376.1	Scaffold6790	1306	GG	AA	1947062533
SNP_P4_190247_1321	NW_004520376.1	Scaffold6790	1321	GG	TT	1947062535
SNP_P4_190249_1477	NW_004520376.1	Scaffold6790	1477	AA	GG	1947062538
SNP_P4_190250_1478	NW_004520376.1	Scaffold6790	1478	CC	TT	1947062540
SNP_P4_190251_1540	NW_004520376.1	Scaffold6790	1540	AA	TT	1947062542
SNP_P4_190252_2201	NW_004520376.1	Scaffold6790	2201	TT	CC	1947062544
SNP_P4_190253_2207	NW_004520376.1	Scaffold6790	2207	GG	AA	1947062546
SNP_P4_190254_2232	NW_004520376.1	Scaffold6790	2232	TT	CC	1947062548
SNP_P4_190256_2300	NW_004520376.1	Scaffold6790	2300	TT	CC	1947062550
SNP_P4_190257_2384	NW_004520376.1	Scaffold6790	2384	GG	TT	1947062552
SNP_P4_190258_2531	NW_004520376.1	Scaffold6790	2531	TT	CC	1947062554
SNP_P4_190259_2707	NW_004520376.1	Scaffold6790	2707	AA	TT	1947062556
SNP_P4_190260_2726	NW_004520376.1	Scaffold6790	2726	GG	AA	1947062558
SNP_P4_190261_2756	NW_004520376.1	Scaffold6790	2756	CC	AA	1947062559
SNP_P4_190263_2859	NW_004520376.1	Scaffold6790	2859	GG	AA	1947062560
SNP_P4_190264_2902	NW_004520376.1	Scaffold6790	2902	CC	TT	1947062561

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_190265_2922	NW_004520376.1	Scaffold6790	2922	TT	CC	1947062563
SNP_P4_190266_2999	NW_004520376.1	Scaffold6790	2999	TT	AA	1947062566
SNP_P4_190267_3035	NW_004520376.1	Scaffold6790	3035	TT	CC	1947062568
SNP_P4_190268_3075	NW_004520376.1	Scaffold6790	3075	TT	CC	1947062570
SNP_P4_190269_3191	NW_004520376.1	Scaffold6790	3191	AA	GG	1947062572
SNP_P4_190270_3202	NW_004520376.1	Scaffold6790	3202	TT	CC	1947062574
SNP_P4_190271_3215	NW_004520376.1	Scaffold6790	3215	CC	TT	1947062576
SNP_P4_190272_3242	NW_004520376.1	Scaffold6790	3242	GG	AA	1947062578
SNP_P4_190273_3817	NW_004520377.1	Scaffold6791	3817	GG	AA	1947062580
SNP_P4_190274_3856	NW_004520377.1	Scaffold6791	3856	GG	TT	1947062582
SNP_P4_190275_4096	NW_004520377.1	Scaffold6791	4096	TT	CC	1947062584
SNP_P4_190276_4114	NW_004520377.1	Scaffold6791	4114	TT	GG	1947062586
SNP_P4_190277_4115	NW_004520377.1	Scaffold6791	4115	GG	CC	1947062588
SNP_P4_190278_4144	NW_004520377.1	Scaffold6791	4144	AA	TT	1947062590
SNP_P4_190279_4335	NW_004520377.1	Scaffold6791	4335	TT	CC	1947062592
SNP_P4_190280_4460	NW_004520377.1	Scaffold6791	4460	TT	AA	1947062594
SNP_P4_190282_8005	NW_004520377.1	Scaffold6791	8005	GG	AA	1947062596
SNP_P4_190283_13488	NW_004520377.1	Scaffold6791	13488	TT	CC	1947062598
SNP_P4_190284_13549	NW_004520377.1	Scaffold6791	13549	TT	CC	1947062600
SNP_P4_190285_13564	NW_004520377.1	Scaffold6791	13564	TT	AA	1947062602
SNP_P4_190286_13787	NW_004520377.1	Scaffold6791	13787	TT	GG	1947062604
SNP_P4_190287_18793	NW_004520377.1	Scaffold6791	18793	CC	TT	1947062606
SNP_P4_190288_18795	NW_004520377.1	Scaffold6791	18795	GG	AA	1947062608
SNP_P4_190289_24362	NW_004520377.1	Scaffold6791	24362	AA	TT	1947062610
SNP_P4_190290_24417	NW_004520377.1	Scaffold6791	24417	CC	TT	1947062612
SNP_P4_190291_26017	NW_004520377.1	Scaffold6791	26017	GG	AA	1947062614
SNP_P4_190292_26020	NW_004520377.1	Scaffold6791	26020	AA	GG	1947062616
SNP_P4_190293_721	NW_004520378.1	Scaffold6792	721	GG	CC	1947062618
SNP_P4_190295_609	NW_004520384.1	Scaffold6808	609	CC	AA	1947062620
SNP_P4_190296_614	NW_004520384.1	Scaffold6808	614	CC	TT	1947062622
SNP_P4_190297_422	NW_004520388.1	Scaffold6814	422	TT	CC	1947062625
SNP_P4_190298_425	NW_004520388.1	Scaffold6814	425	AA	TT	1947062627
SNP_P4_190299_494	NW_004520388.1	Scaffold6814	494	CC	GG	1947062629
SNP_P4_190300_525	NW_004520388.1	Scaffold6814	525	GG	AA	1947062631
SNP_P4_190301_532	NW_004520388.1	Scaffold6814	532	TT	AA	1947062633
SNP_P4_190302_523	NW_004520392.1	Scaffold6820	523	GG	AA	1947062635
SNP_P4_190303_537	NW_004520392.1	Scaffold6820	537	AA	TT	1947062637
SNP_P4_190304_551	NW_004520392.1	Scaffold6820	551	GG	TT	1947062639
SNP_P4_190305_640	NW_004520392.1	Scaffold6820	640	CC	AA	1947062641
SNP_P4_190306_699	NW_004520392.1	Scaffold6820	699	AA	TT	1947062643
SNP_P4_190307_784	NW_004520392.1	Scaffold6820	784	GG	AA	1947062645
SNP_P4_190308_877	NW_004520392.1	Scaffold6820	877	CC	TT	1947062647

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_190310_976	NW_004520392.1	Scaffold6820	976	AA	CC	1947062649
SNP_P4_190311_984	NW_004520392.1	Scaffold6820	984	GG	AA	1947062651
SNP_P4_190312_989	NW_004520392.1	Scaffold6820	989	AA	CC	1947062653
SNP_P4_190313_254	NW_004520395.1	Scaffold6824	254	CC	TT	1947062655
SNP_P4_190314_742	NW_004520397.1	Scaffold6827	742	CC	TT	1947062656
SNP_P4_190315_371	NW_004520398.1	Scaffold6828	371	AA	GG	1947062658
SNP_P4_190316_841	NW_004520398.1	Scaffold6828	841	TT	AA	1947062660
SNP_P4_190317_866	NW_004520398.1	Scaffold6828	866	TT	AA	1947062662
SNP_P4_190318_115	NW_004520399.1	Scaffold6830	115	TT	AA	1947062664
SNP_P4_190319_141	NW_004520399.1	Scaffold6830	141	CC	TT	1947062666
SNP_P4_190320_176	NW_004520399.1	Scaffold6830	176	CC	TT	1947062668
SNP_P4_190321_473	NW_004520399.1	Scaffold6830	473	TT	CC	1947062670
SNP_P4_190322_2338	NW_004520403.1	Scaffold6837	2338	CC	TT	1947062672
SNP_P4_190323_2342	NW_004520403.1	Scaffold6837	2342	CC	TT	1947062674
SNP_P4_190324_2705	NW_004520403.1	Scaffold6837	2705	CC	TT	1947062676
SNP_P4_190325_64	NW_004520406.1	Scaffold6842	64	GG	TT	1947062678
SNP_P4_190326_107	NW_004520406.1	Scaffold6842	107	AA	TT	1947062680
SNP_P4_190327_109	NW_004520406.1	Scaffold6842	109	TT	GG	1947062682
SNP_P4_190328_318	NW_004520406.1	Scaffold6842	318	TT	CC	1947062684
SNP_P4_190330_1775	NW_004520406.1	Scaffold6842	1775	CC	AA	1947062686
SNP_P4_190331_1808	NW_004520406.1	Scaffold6842	1808	AA	CC	1947062688
SNP_P4_190332_1821	NW_004520406.1	Scaffold6842	1821	CC	TT	1947062690
SNP_P4_190333_1084	NW_004520407.1	Scaffold6843	1084	AA	CC	1947062692
SNP_P4_190334_1229	NW_004520407.1	Scaffold6843	1229	TT	GG	1947062694
SNP_P4_190335_1254	NW_004520407.1	Scaffold6843	1254	TT	GG	1947062696
SNP_P4_190336_1353	NW_004520407.1	Scaffold6843	1353	AA	GG	1947062698
SNP_P4_190337_434	NW_004520408.1	Scaffold6845	434	GG	CC	1947062700
SNP_P4_190338_702	NW_004520408.1	Scaffold6845	702	CC	AA	1947062702
SNP_P4_190339_737	NW_004520408.1	Scaffold6845	737	AA	TT	1947062704
SNP_P4_190340_1005	NW_004520408.1	Scaffold6845	1005	AA	TT	1947062706
SNP_P4_190341_1257	NW_004520408.1	Scaffold6845	1257	AA	CC	1947062707
SNP_P4_190342_1262	NW_004520408.1	Scaffold6845	1262	AA	TT	1947062709
SNP_P4_190344_1334	NW_004520408.1	Scaffold6845	1334	GG	CC	1947062711
SNP_P4_190346_537	NW_004520409.1	Scaffold6846	537	AA	TT	1947062713
SNP_P4_190347_606	NW_004520409.1	Scaffold6846	606	CC	AA	1947062715
SNP_P4_190348_627	NW_004520409.1	Scaffold6846	627	CC	AA	1947062717
SNP_P4_190349_701	NW_004520409.1	Scaffold6846	701	TT	AA	1947062719
SNP_P4_190350_724	NW_004520409.1	Scaffold6846	724	TT	AA	1947062722
SNP_P4_190351_730	NW_004520409.1	Scaffold6846	730	TT	GG	1947062724
SNP_P4_190352_747	NW_004520409.1	Scaffold6846	747	AA	GG	1947062726
SNP_P4_190353_826	NW_004520409.1	Scaffold6846	826	CC	TT	1947062729
SNP_P4_190354_827	NW_004520409.1	Scaffold6846	827	AA	CC	1947062731

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_190356_895	NW_004520409.1	Scaffold6846	895	TT	CC	1947062737
SNP_P4_190357_918	NW_004520409.1	Scaffold6846	918	CC	GG	1947062739
SNP_P4_190358_923	NW_004520409.1	Scaffold6846	923	CC	AA	1947062741
SNP_P4_190360_959	NW_004520409.1	Scaffold6846	959	AA	GG	1947062743
SNP_P4_190362_1359	NW_004520409.1	Scaffold6846	1359	CC	TT	1947062745
SNP_P4_190364_1393	NW_004520409.1	Scaffold6846	1393	CC	AA	1947062747
SNP_P4_190365_1407	NW_004520409.1	Scaffold6846	1407	AA	GG	1947062749
SNP_P4_190366_1568	NW_004520409.1	Scaffold6846	1568	CC	GG	1947062751
SNP_P4_190367_1628	NW_004520409.1	Scaffold6846	1628	AA	CC	1947062753
SNP_P4_190368_1679	NW_004520409.1	Scaffold6846	1679	CC	TT	1947062755
SNP_P4_190369_1764	NW_004520409.1	Scaffold6846	1764	CC	TT	1947062757
SNP_P4_190370_1867	NW_004520409.1	Scaffold6846	1867	AA	GG	1947062759
SNP_P4_190371_2368	NW_004520409.1	Scaffold6846	2368	TT	AA	1947062761
SNP_P4_190372_2369	NW_004520409.1	Scaffold6846	2369	GG	TT	1947062762
SNP_P4_190373_2431	NW_004520409.1	Scaffold6846	2431	CC	AA	1947062764
SNP_P4_190374_2691	NW_004520409.1	Scaffold6846	2691	TT	CC	1947062766
SNP_P4_190375_2718	NW_004520409.1	Scaffold6846	2718	AA	TT	1947062768
SNP_P4_190376_64	NW_004520411.1	Scaffold6851	64	GG	TT	1947062770
SNP_P4_190377_79	NW_004520411.1	Scaffold6851	79	TT	CC	1947062772
SNP_P4_190378_128	NW_004520411.1	Scaffold6851	128	AA	GG	1947062774
SNP_P4_190379_150	NW_004520411.1	Scaffold6851	150	TT	CC	1947062775
SNP_P4_190380_219	NW_004520411.1	Scaffold6851	219	GG	CC	1947062776
SNP_P4_190381_381	NW_004520411.1	Scaffold6851	381	AA	TT	1947062777
SNP_P4_190382_398	NW_004520411.1	Scaffold6851	398	AA	CC	1947062778
SNP_P4_190383_448	NW_004520411.1	Scaffold6851	448	AA	TT	1947062779
SNP_P4_190384_467	NW_004520411.1	Scaffold6851	467	GG	CC	1947062780
SNP_P4_190385_516	NW_004520411.1	Scaffold6851	516	TT	CC	1947062781
SNP_P4_190386_593	NW_004520411.1	Scaffold6851	593	AA	TT	1947062782
SNP_P4_190387_669	NW_004520411.1	Scaffold6851	669	GG	TT	1947062783
SNP_P4_190388_1535	NW_004520411.1	Scaffold6851	1535	TT	GG	1947062784
SNP_P4_190389_1604	NW_004520411.1	Scaffold6851	1604	AA	CC	1947062785
SNP_P4_190390_391	NW_004520412.1	Scaffold6852	391	GG	CC	1947062787
SNP_P4_190391_586	NW_004520412.1	Scaffold6852	586	CC	AA	1947062789
SNP_P4_190392_120	NW_004520414.1	Scaffold6854	120	TT	CC	1947062791
SNP_P4_190393_123	NW_004520414.1	Scaffold6854	123	TT	AA	1947062793
SNP_P4_190394_268	NW_004520414.1	Scaffold6854	268	CC	TT	1947062795
SNP_P4_190395_342	NW_004520414.1	Scaffold6854	342	CC	TT	1947062797
SNP_P4_190396_522	NW_004520414.1	Scaffold6854	522	AA	GG	1947062799
SNP_P4_190397_573	NW_004520414.1	Scaffold6854	573	TT	CC	1947062801
SNP_P4_190398_584	NW_004520414.1	Scaffold6854	584	AA	CC	1947062802
SNP_P4_190399_586	NW_004520414.1	Scaffold6854	586	GG	AA	1947062804

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_190401_658	NW_004520414.1	Scaffold6854	658	AA	TT	1947062808
SNP_P4_190402_704	NW_004520414.1	Scaffold6854	704	AA	TT	1947062810
SNP_P4_190403_720	NW_004520414.1	Scaffold6854	720	TT	AA	1947062812
SNP_P4_190404_900	NW_004520414.1	Scaffold6854	900	TT	GG	1947062814
SNP_P4_190405_962	NW_004520414.1	Scaffold6854	962	AA	GG	1947062816
SNP_P4_190406_989	NW_004520414.1	Scaffold6854	989	CC	TT	1947062818
SNP_P4_190407_1008	NW_004520414.1	Scaffold6854	1008	GG	AA	1947062820
SNP_P4_190409_1029	NW_004520414.1	Scaffold6854	1029	AA	TT	1947062821
SNP_P4_190410_489	NW_004520421.1	Scaffold6867	489	TT	GG	1947062823
SNP_P4_190411_505	NW_004520421.1	Scaffold6867	505	TT	GG	1947062825
SNP_P4_190412_729	NW_004520421.1	Scaffold6867	729	CC	TT	1947062827
SNP_P4_190413_801	NW_004520421.1	Scaffold6867	801	GG	AA	1947062829
SNP_P4_190415_147	NW_004520423.1	Scaffold6869	147	TT	AA	1947062831
SNP_P4_190416_539	NW_004520423.1	Scaffold6869	539	CC	GG	1947062833
SNP_P4_190417_542	NW_004520423.1	Scaffold6869	542	TT	CC	1947062835
SNP_P4_190418_602	NW_004520423.1	Scaffold6869	602	AA	CC	1947062837
SNP_P4_190419_692	NW_004520423.1	Scaffold6869	692	TT	CC	1947062839
SNP_P4_190420_707	NW_004520423.1	Scaffold6869	707	TT	CC	1947062841
SNP_P4_190421_1028	NW_004520425.1	Scaffold6873	1028	CC	GG	1947062843
SNP_P4_190422_1113	NW_004520425.1	Scaffold6873	1113	CC	GG	1947062845
SNP_P4_190423_1242	NW_004520425.1	Scaffold6873	1242	GG	TT	1947062847
SNP_P4_190424_1254	NW_004520425.1	Scaffold6873	1254	CC	TT	1947062849
SNP_P4_190425_1405	NW_004520425.1	Scaffold6873	1405	TT	CC	1947062851
SNP_P4_190426_1436	NW_004520425.1	Scaffold6873	1436	AA	CC	1947062853
SNP_P4_190428_1466	NW_004520425.1	Scaffold6873	1466	TT	CC	1947062855
SNP_P4_190429_1541	NW_004520425.1	Scaffold6873	1541	TT	CC	1947062857
SNP_P4_190430_1547	NW_004520425.1	Scaffold6873	1547	CC	TT	1947062859
SNP_P4_190431_1659	NW_004520427.1	Scaffold6876	1659	AA	CC	1947062861
SNP_P4_190432_1690	NW_004520427.1	Scaffold6876	1690	TT	CC	1947062863
SNP_P4_190433_1702	NW_004520427.1	Scaffold6876	1702	TT	AA	1947062865
SNP_P4_190434_1710	NW_004520427.1	Scaffold6876	1710	GG	TT	1947062866
SNP_P4_190435_1750	NW_004520427.1	Scaffold6876	1750	TT	AA	1947062868
SNP_P4_190436_1765	NW_004520427.1	Scaffold6876	1765	GG	AA	1947062870
SNP_P4_190437_1874	NW_004520427.1	Scaffold6876	1874	GG	TT	1947062872
SNP_P4_190438_1884	NW_004520427.1	Scaffold6876	1884	CC	AA	1947062874
SNP_P4_190439_1891	NW_004520427.1	Scaffold6876	1891	GG	AA	1947062876
SNP_P4_190440_1896	NW_004520427.1	Scaffold6876	1896	TT	CC	1947062878
SNP_P4_190441_1951	NW_004520427.1	Scaffold6876	1951	CC	AA	1947062880
SNP_P4_190442_1965	NW_004520427.1	Scaffold6876	1965	CC	AA	1947062882
SNP_P4_190443_1975	NW_004520427.1	Scaffold6876	1975	GG	AA	1947062884
SNP_P4_190444_2039	NW_004520427.1	Scaffold6876	2039	CC	TT	1947062886

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_190445_2124	NW_004520427.1	Scaffold6876	2124	TT	CC	1947062888
SNP_P4_190446_2126	NW_004520427.1	Scaffold6876	2126	GG	AA	1947062889
SNP_P4_190447_2127	NW_004520427.1	Scaffold6876	2127	CC	AA	1947062891
SNP_P4_190448_2142	NW_004520427.1	Scaffold6876	2142	CC	AA	1947062893
SNP_P4_190449_2144	NW_004520427.1	Scaffold6876	2144	AA	GG	1947062895
SNP_P4_190450_2163	NW_004520427.1	Scaffold6876	2163	TT	CC	1947062897
SNP_P4_190451_2164	NW_004520427.1	Scaffold6876	2164	CC	TT	1947062899
SNP_P4_190452_2193	NW_004520427.1	Scaffold6876	2193	CC	TT	1947062901
SNP_P4_190453_2242	NW_004520427.1	Scaffold6876	2242	GG	AA	1947062902
SNP_P4_190454_2259	NW_004520427.1	Scaffold6876	2259	CC	AA	1947062904
SNP_P4_190455_2290	NW_004520427.1	Scaffold6876	2290	TT	CC	1947062906
SNP_P4_190456_2546	NW_004520427.1	Scaffold6876	2546	AA	GG	1947062908
SNP_P4_190457_350	NW_004520428.1	Scaffold6877	350	TT	AA	1947062910
SNP_P4_190458_437	NW_004520429.1	Scaffold6878	437	AA	CC	1947062912
SNP_P4_190459_811	NW_004520429.1	Scaffold6878	811	AA	GG	1947062914
SNP_P4_190460_1637	NW_004520429.1	Scaffold6878	1637	CC	TT	1947062916
SNP_P4_190462_1881	NW_004520429.1	Scaffold6878	1881	CC	GG	1947062918
SNP_P4_190463_2078	NW_004520429.1	Scaffold6878	2078	GG	AA	1947062920
SNP_P4_190464_1656	NW_004520430.1	Scaffold6879	1656	CC	AA	1947062921
SNP_P4_190465_1658	NW_004520430.1	Scaffold6879	1658	CC	GG	1947062923
SNP_P4_190466_1854	NW_004520430.1	Scaffold6879	1854	CC	TT	1947062925
SNP_P4_190467_1862	NW_004520430.1	Scaffold6879	1862	TT	GG	1947062927
SNP_P4_190468_1885	NW_004520430.1	Scaffold6879	1885	GG	CC	1947062929
SNP_P4_190469_1896	NW_004520430.1	Scaffold6879	1896	CC	AA	1947062931
SNP_P4_190470_1930	NW_004520430.1	Scaffold6879	1930	CC	TT	1947062933
SNP_P4_190471_115	NW_004520431.1	Scaffold6882	115	GG	AA	1947062935
SNP_P4_190472_204	NW_004520431.1	Scaffold6882	204	CC	GG	1947062937
SNP_P4_190474_1094	NW_004520438.1	Scaffold6895	1094	GG	AA	1947062939
SNP_P4_190475_1095	NW_004520438.1	Scaffold6895	1095	AA	GG	1947062941
SNP_P4_190476_1096	NW_004520438.1	Scaffold6895	1096	TT	CC	1947062942
SNP_P4_190477_1136	NW_004520438.1	Scaffold6895	1136	GG	TT	1947062944
SNP_P4_190478_1405	NW_004520439.1	Scaffold6896	1405	CC	TT	1947062946
SNP_P4_190479_1450	NW_004520439.1	Scaffold6896	1450	CC	AA	1947062948
SNP_P4_190480_1819	NW_004520439.1	Scaffold6896	1819	GG	TT	1947062950
SNP_P4_190481_1902	NW_004520439.1	Scaffold6896	1902	CC	TT	1947062952
SNP_P4_190482_2287	NW_004520439.1	Scaffold6896	2287	CC	GG	1947062954
SNP_P4_190483_2311	NW_004520439.1	Scaffold6896	2311	AA	GG	1947062956
SNP_P4_190484_2312	NW_004520439.1	Scaffold6896	2312	TT	GG	1947062958
SNP_P4_190485_435	NW_004520444.1	Scaffold6903	435	GG	AA	1947062960
SNP_P4_190486_4824	NW_004520444.1	Scaffold6903	4824	AA	GG	1947062962
SNP_P4_190487_4907	NW_004520444.1	Scaffold6903	4907	CC	AA	1947062963
SNP_P4_190488_4934	NW_004520444.1	Scaffold6903	4934	GG	AA	1947062965

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_190492_5487	NW_004520444.1	Scaffold6903	5487	TT	CC	1947062969
SNP_P4_190493_24012	NW_004520444.1	Scaffold6903	24012	GG	TT	1947062971
SNP_P4_190494_26336	NW_004520444.1	Scaffold6903	26336	GG	AA	1947062973
SNP_P4_190495_742	NW_004520448.1	Scaffold6912	742	TT	GG	1947062975
SNP_P4_190496_2607	NW_004520456.1	Scaffold6923	2607	GG	AA	1947062977
SNP_P4_190497_2730	NW_004520456.1	Scaffold6923	2730	GG	TT	1947062979
SNP_P4_190498_2927	NW_004520456.1	Scaffold6923	2927	GG	CC	1947062980
SNP_P4_190499_3077	NW_004520456.1	Scaffold6923	3077	CC	AA	1947062982
SNP_P4_190500_3119	NW_004520456.1	Scaffold6923	3119	TT	GG	1947062984
SNP_P4_190501_3120	NW_004520456.1	Scaffold6923	3120	GG	TT	1947062986
SNP_P4_190502_3238	NW_004520456.1	Scaffold6923	3238	TT	CC	1947062988
SNP_P4_190503_3276	NW_004520456.1	Scaffold6923	3276	AA	GG	1947062990
SNP_P4_190504_3595	NW_004520456.1	Scaffold6923	3595	TT	CC	1947062992
SNP_P4_190505_546	NW_004520459.1	Scaffold6926	546	CC	AA	1947062994
SNP_P4_190506_695	NW_004520459.1	Scaffold6926	695	TT	AA	1947062996
SNP_P4_190507_698	NW_004520459.1	Scaffold6926	698	GG	CC	1947062998
SNP_P4_190508_736	NW_004520459.1	Scaffold6926	736	TT	GG	1947063000
SNP_P4_190509_747	NW_004520459.1	Scaffold6926	747	GG	CC	1947063001
SNP_P4_190510_751	NW_004520459.1	Scaffold6926	751	CC	TT	1947063003
SNP_P4_190511_756	NW_004520459.1	Scaffold6926	756	AA	CC	1947063005
SNP_P4_190512_765	NW_004520459.1	Scaffold6926	765	AA	TT	1947063007
SNP_P4_190513_774	NW_004520459.1	Scaffold6926	774	AA	CC	1947063009
SNP_P4_190514_2489	NW_004520460.1	Scaffold6927	2489	CC	GG	1947063011
SNP_P4_190515_2550	NW_004520460.1	Scaffold6927	2550	AA	TT	1947063013
SNP_P4_190516_2650	NW_004520460.1	Scaffold6927	2650	CC	TT	1947063015
SNP_P4_190517_819	NW_004520462.1	Scaffold6932	819	AA	GG	1947063017
SNP_P4_190518_1964	NW_004520462.1	Scaffold6932	1964	TT	AA	1947063019
SNP_P4_190519_238	NW_004520463.1	Scaffold6933	238	AA	CC	1947063021
SNP_P4_190520_2191	NW_004520463.1	Scaffold6933	2191	GG	AA	1947063023
SNP_P4_190521_2201	NW_004520463.1	Scaffold6933	2201	AA	CC	1947063025
SNP_P4_190522_2096	NW_004520464.1	Scaffold6934	2096	CC	AA	1947063026
SNP_P4_190523_4448	NW_004520464.1	Scaffold6934	4448	CC	AA	1947063028
SNP_P4_190524_944	NW_004520466.1	Scaffold6939	944	CC	TT	1947063030
SNP_P4_190525_1027	NW_004520466.1	Scaffold6939	1027	GG	AA	1947063032
SNP_P4_190526_1181	NW_004520466.1	Scaffold6939	1181	AA	GG	1947063034
SNP_P4_190527_1495	NW_004520466.1	Scaffold6939	1495	CC	AA	1947063036
SNP_P4_190528_63	NW_004520468.1	Scaffold6941	63	AA	CC	1947063038
SNP_P4_190529_71	NW_004520468.1	Scaffold6941	71	AA	GG	1947063040
SNP_P4_190530_126	NW_004520468.1	Scaffold6941	126	TT	CC	1947063042
SNP_P4_190531_189	NW_004520468.1	Scaffold6941	189	CC	AA	1947063044
SNP_P4_190532_195	NW_004520468.1	Scaffold6941	195	GG	AA	1947063046

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_190534_385	NW_004520468.1	Scaffold6941	385	AA	TT	1947063050
SNP_P4_190535_455	NW_004520468.1	Scaffold6941	455	TT	GG	1947063052
SNP_P4_190536_5543	NW_004520468.1	Scaffold6941	5543	AA	CC	1947063054
SNP_P4_190537_64	NW_004520470.1	Scaffold6943	64	CC	TT	1947063056
SNP_P4_190538_1248	NW_004520470.1	Scaffold6943	1248	AA	GG	1947063058
SNP_P4_190539_2183	NW_004520470.1	Scaffold6943	2183	TT	CC	1947063060
SNP_P4_190540_1172	NW_004520474.1	Scaffold6947	1172	AA	GG	1947063062
SNP_P4_190541_1333	NW_004520477.1	Scaffold6951	1333	GG	TT	1947063064
SNP_P4_190542_6244	NW_004520477.1	Scaffold6951	6244	GG	AA	1947063066
SNP_P4_190543_6534	NW_004520477.1	Scaffold6951	6534	CC	AA	1947063068
SNP_P4_190544_561	NW_004520483.1	Scaffold6961	561	CC	AA	1947063070
SNP_P4_190545_83	NW_004520484.1	Scaffold6963	83	CC	TT	1947063072
SNP_P4_190546_419	NW_004520484.1	Scaffold6963	419	TT	CC	1947063074
SNP_P4_190547_422	NW_004520484.1	Scaffold6963	422	AA	CC	1947063076
SNP_P4_190548_494	NW_004520484.1	Scaffold6963	494	CC	GG	1947063078
SNP_P4_190549_656	NW_004520484.1	Scaffold6963	656	GG	TT	1947063080
SNP_P4_190550_772	NW_004520484.1	Scaffold6963	772	GG	CC	1947063082
SNP_P4_190551_832	NW_004520484.1	Scaffold6963	832	GG	AA	1947063084
SNP_P4_190552_328	NW_004520486.1	Scaffold6965	328	GG	AA	1947063086
SNP_P4_190553_1414	NW_004520487.1	Scaffold6968	1414	CC	TT	1947063087
SNP_P4_190554_1417	NW_004520487.1	Scaffold6968	1417	TT	AA	1947063089
SNP_P4_190555_1889	NW_004520487.1	Scaffold6968	1889	TT	CC	1947063091
SNP_P4_190556_1925	NW_004520487.1	Scaffold6968	1925	GG	TT	1947063093
SNP_P4_190557_428	NW_004520491.1	Scaffold6975	428	AA	TT	1947063095
SNP_P4_190558_432	NW_004520491.1	Scaffold6975	432	TT	GG	1947063097
SNP_P4_190559_433	NW_004520491.1	Scaffold6975	433	GG	TT	1947063099
SNP_P4_190560_1146	NW_004520491.1	Scaffold6975	1146	AA	TT	1947063101
SNP_P4_190561_15765	NW_004520496.1	Scaffold6980	15765	TT	CC	1947063103
SNP_P4_190563_26774	NW_004520496.1	Scaffold6980	26774	GG	AA	1947063105
SNP_P4_190564_40868	NW_004520496.1	Scaffold6980	40868	AA	GG	1947063107
SNP_P4_190565_69363	NW_004520496.1	Scaffold6980	69363	AA	GG	1947063110
SNP_P4_190566_69626	NW_004520496.1	Scaffold6980	69626	AA	GG	1947063113
SNP_P4_190567_1238	NW_004520497.1	Scaffold6981	1238	TT	AA	1947063116
SNP_P4_190569_1230	NW_004520499.1	Scaffold6985	1230	TT	AA	1947063118
SNP_P4_190570_587	NW_004520504.1	Scaffold6995	587	AA	TT	1947063121
SNP_P4_190572_883	NW_004520504.1	Scaffold6995	883	GG	TT	1947063124
SNP_P4_190573_920	NW_004520504.1	Scaffold6995	920	GG	AA	1947063126
SNP_P4_190574_992	NW_004520504.1	Scaffold6995	992	GG	CC	1947063128
SNP_P4_190575_1472	NW_004520506.1	Scaffold6999	1472	AA	TT	1947063130
SNP_P4_190576_487	NW_004520513.1	Scaffold7010	487	TT	CC	1947063132
SNP_P4_190577_976	NW_004520513.1	Scaffold7010	976	TT	GG	1947063134

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_190579_1324	NW_004520513.1	Scaffold7010	1324	GG	AA	1947063138
SNP_P4_190580_1690	NW_004520513.1	Scaffold7010	1690	TT	AA	1947063140
SNP_P4_190581_814	NW_004520518.1	Scaffold7021	814	TT	CC	1947063142
SNP_P4_190582_844	NW_004520518.1	Scaffold7021	844	AA	TT	1947063144
SNP_P4_190584_1552	NW_004520521.1	Scaffold7033	1552	AA	TT	1947063146
SNP_P4_190585_1554	NW_004520521.1	Scaffold7033	1554	TT	GG	1947063148
SNP_P4_190586_2049	NW_004520521.1	Scaffold7033	2049	TT	AA	1947063150
SNP_P4_190587_311	NW_004520522.1	Scaffold7034	311	CC	AA	1947063152
SNP_P4_190588_327	NW_004520522.1	Scaffold7034	327	AA	GG	1947063154
SNP_P4_190589_517	NW_004520522.1	Scaffold7034	517	CC	GG	1947063156
SNP_P4_190590_702	NW_004520522.1	Scaffold7034	702	TT	CC	1947063158
SNP_P4_190592_1260	NW_004520526.1	Scaffold7038	1260	TT	CC	1947063160
SNP_P4_190594_22	NW_004520528.1	Scaffold7041	22	AA	TT	1947063162
SNP_P4_190595_35	NW_004520528.1	Scaffold7041	35	AA	GG	1947063164
SNP_P4_190596_64	NW_004520528.1	Scaffold7041	64	TT	AA	1947063166
SNP_P4_190597_65	NW_004520528.1	Scaffold7041	65	TT	GG	1947063168
SNP_P4_190598_79	NW_004520528.1	Scaffold7041	79	TT	CC	1947063170
SNP_P4_190599_95	NW_004520528.1	Scaffold7041	95	AA	GG	1947063172
SNP_P4_190600_142	NW_004520528.1	Scaffold7041	142	CC	TT	1947063174
SNP_P4_190601_166	NW_004520528.1	Scaffold7041	166	TT	GG	1947063176
SNP_P4_190602_183	NW_004520528.1	Scaffold7041	183	GG	TT	1947063178
SNP_P4_190603_185	NW_004520528.1	Scaffold7041	185	AA	GG	1947063180
SNP_P4_190604_186	NW_004520528.1	Scaffold7041	186	GG	AA	1947063182
SNP_P4_190605_560	NW_004520528.1	Scaffold7041	560	GG	AA	1947063184
SNP_P4_190606_808	NW_004520528.1	Scaffold7041	808	AA	TT	1947063186
SNP_P4_190607_1019	NW_004520528.1	Scaffold7041	1019	CC	TT	1947063188
SNP_P4_190608_1039	NW_004520528.1	Scaffold7041	1039	TT	AA	1947063190
SNP_P4_190609_1064	NW_004520528.1	Scaffold7041	1064	GG	TT	1947063192
SNP_P4_190610_1177	NW_004520530.1	Scaffold7046	1177	CC	TT	1947063194
SNP_P4_190612_80	NW_004520532.1	Scaffold7048	80	CC	TT	1947063196
SNP_P4_190614_649	NW_004520532.1	Scaffold7048	649	AA	TT	1947063198
SNP_P4_190615_64	NW_004520535.1	Scaffold7055	64	AA	GG	1947063200
SNP_P4_190617_652	NW_004520535.1	Scaffold7055	652	TT	AA	1947063202
SNP_P4_190618_674	NW_004520535.1	Scaffold7055	674	TT	GG	1947063204
SNP_P4_190619_707	NW_004520535.1	Scaffold7055	707	TT	GG	1947063206
SNP_P4_190620_145	NW_004520537.1	Scaffold7059	145	GG	TT	1947063208
SNP_P4_190621_440	NW_004520537.1	Scaffold7059	440	CC	TT	1947063210
SNP_P4_190622_662	NW_004520537.1	Scaffold7059	662	GG	AA	1947063212
SNP_P4_190623_794	NW_004520537.1	Scaffold7059	794	TT	GG	1947063214
SNP_P4_190624_805	NW_004520537.1	Scaffold7059	805	GG	AA	1947063216
SNP_P4_190625_808	NW_004520537.1	Scaffold7059	808	TT	GG	1947063218

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_190627_1107	NW_004520537.1	Scaffold7059	1107	GG	CC	1947063222
SNP_P4_190628_1111	NW_004520537.1	Scaffold7059	1111	GG	CC	1947063224
SNP_P4_190629_1288	NW_004520537.1	Scaffold7059	1288	GG	AA	1947063226
SNP_P4_190630_1291	NW_004520537.1	Scaffold7059	1291	AA	GG	1947063228
SNP_P4_190631_1323	NW_004520537.1	Scaffold7059	1323	AA	GG	1947063230
SNP_P4_190632_1390	NW_004520537.1	Scaffold7059	1390	TT	CC	1947063232
SNP_P4_190633_1402	NW_004520537.1	Scaffold7059	1402	AA	GG	1947063234
SNP_P4_190634_78	NW_004520538.1	Scaffold7060	78	GG	AA	1947063236
SNP_P4_190635_79	NW_004520538.1	Scaffold7060	79	GG	CC	1947063238
SNP_P4_190636_136	NW_004520538.1	Scaffold7060	136	AA	GG	1947063240
SNP_P4_190637_256	NW_004520538.1	Scaffold7060	256	AA	GG	1947063242
SNP_P4_190638_416	NW_004520538.1	Scaffold7060	416	AA	GG	1947063244
SNP_P4_190639_539	NW_004520538.1	Scaffold7060	539	AA	CC	1947063246
SNP_P4_190640_545	NW_004520538.1	Scaffold7060	545	AA	GG	1947063248
SNP_P4_190641_555	NW_004520538.1	Scaffold7060	555	TT	CC	1947063250
SNP_P4_190642_576	NW_004520538.1	Scaffold7060	576	TT	GG	1947063252
SNP_P4_190643_609	NW_004520538.1	Scaffold7060	609	CC	TT	1947063254
SNP_P4_190644_610	NW_004520538.1	Scaffold7060	610	GG	AA	1947063256
SNP_P4_190645_120	NW_004520539.1	Scaffold7063	120	GG	TT	1947063258
SNP_P4_190646_164	NW_004520539.1	Scaffold7063	164	TT	GG	1947063260
SNP_P4_190647_262	NW_004520539.1	Scaffold7063	262	TT	CC	1947063262
SNP_P4_190648_313	NW_004520539.1	Scaffold7063	313	TT	GG	1947063264
SNP_P4_190649_947	NW_004520540.1	Scaffold7067	947	TT	CC	1947063266
SNP_P4_190650_949	NW_004520540.1	Scaffold7067	949	TT	CC	1947063269
SNP_P4_190651_950	NW_004520540.1	Scaffold7067	950	TT	CC	1947063271
SNP_P4_190652_951	NW_004520540.1	Scaffold7067	951	GG	TT	1947063273
SNP_P4_190653_952	NW_004520540.1	Scaffold7067	952	GG	AA	1947063275
SNP_P4_190654_2331	NW_004520548.1	Scaffold7081	2331	GG	TT	1947063277
SNP_P4_190655_2423	NW_004520548.1	Scaffold7081	2423	GG	TT	1947063279
SNP_P4_190656_2441	NW_004520548.1	Scaffold7081	2441	AA	GG	1947063281
SNP_P4_190658_2470	NW_004520548.1	Scaffold7081	2470	TT	CC	1947063283
SNP_P4_190659_2542	NW_004520548.1	Scaffold7081	2542	CC	TT	1947063285
SNP_P4_190661_2567	NW_004520548.1	Scaffold7081	2567	AA	GG	1947063287
SNP_P4_190662_2568	NW_004520548.1	Scaffold7081	2568	GG	AA	1947063289
SNP_P4_190663_2589	NW_004520548.1	Scaffold7081	2589	CC	TT	1947063291
SNP_P4_190664_2657	NW_004520548.1	Scaffold7081	2657	TT	GG	1947063293
SNP_P4_190665_2695	NW_004520548.1	Scaffold7081	2695	TT	CC	1947063295
SNP_P4_190666_2720	NW_004520548.1	Scaffold7081	2720	TT	GG	1947063297
SNP_P4_190668_4371	NW_004520548.1	Scaffold7081	4371	TT	AA	1947063299
SNP_P4_190669_359	NW_004520549.1	Scaffold7082	359	TT	CC	1947063301
SNP_P4_190670_512	NW_004520549.1	Scaffold7082	512	AA	CC	1947063303

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_190672_647	NW_004520549.1	Scaffold7082	647	GG	TT	1947063307
SNP_P4_190673_673	NW_004520549.1	Scaffold7082	673	AA	GG	1947063309
SNP_P4_190674_734	NW_004520549.1	Scaffold7082	734	AA	CC	1947063311
SNP_P4_190675_807	NW_004520549.1	Scaffold7082	807	AA	GG	1947063313
SNP_P4_190677_439	NW_004520551.1	Scaffold7085	439	AA	CC	1947063315
SNP_P4_190678_1929	NW_004520554.1	Scaffold7090	1929	AA	GG	1947063317
SNP_P4_190679_1951	NW_004520554.1	Scaffold7090	1951	TT	CC	1947063319
SNP_P4_190680_1991	NW_004520554.1	Scaffold7090	1991	AA	GG	1947063321
SNP_P4_190681_2006	NW_004520554.1	Scaffold7090	2006	AA	TT	1947063323
SNP_P4_190682_2015	NW_004520554.1	Scaffold7090	2015	GG	AA	1947063325
SNP_P4_190683_2021	NW_004520554.1	Scaffold7090	2021	CC	TT	1947063327
SNP_P4_190684_2194	NW_004520554.1	Scaffold7090	2194	AA	GG	1947063329
SNP_P4_190685_2199	NW_004520554.1	Scaffold7090	2199	GG	AA	1947063331
SNP_P4_190686_217	NW_004520555.1	Scaffold7091	217	CC	AA	1947063333
SNP_P4_190687_278	NW_004520555.1	Scaffold7091	278	GG	AA	1947063335
SNP_P4_190688_569	NW_004520555.1	Scaffold7091	569	GG	AA	1947063337
SNP_P4_190689_597	NW_004520555.1	Scaffold7091	597	CC	TT	1947063339
SNP_P4_190690_916	NW_004520555.1	Scaffold7091	916	AA	GG	1947063341
SNP_P4_190691_1022	NW_004520555.1	Scaffold7091	1022	TT	CC	1947063343
SNP_P4_190692_1143	NW_004520555.1	Scaffold7091	1143	TT	CC	1947063345
SNP_P4_190693_1184	NW_004520555.1	Scaffold7091	1184	GG	AA	1947063347
SNP_P4_190694_1185	NW_004520555.1	Scaffold7091	1185	AA	TT	1947063350
SNP_P4_190695_1242	NW_004520555.1	Scaffold7091	1242	AA	GG	1947063352
SNP_P4_190696_1271	NW_004520555.1	Scaffold7091	1271	GG	AA	1947063354
SNP_P4_190697_1347	NW_004520555.1	Scaffold7091	1347	GG	CC	1947063356
SNP_P4_190698_1382	NW_004520555.1	Scaffold7091	1382	TT	GG	1947063358
SNP_P4_190699_1390	NW_004520555.1	Scaffold7091	1390	TT	CC	1947063360
SNP_P4_190700_1530	NW_004520555.1	Scaffold7091	1530	TT	GG	1947063362
SNP_P4_190701_1581	NW_004520555.1	Scaffold7091	1581	GG	TT	1947063364
SNP_P4_190702_1702	NW_004520555.1	Scaffold7091	1702	AA	CC	1947063366
SNP_P4_190703_54	NW_004520558.1	Scaffold7095	54	TT	CC	1947063368
SNP_P4_190704_64	NW_004520558.1	Scaffold7095	64	TT	CC	1947063370
SNP_P4_190705_79	NW_004520558.1	Scaffold7095	79	AA	GG	1947063372
SNP_P4_190706_293	NW_004520558.1	Scaffold7095	293	TT	CC	1947063374
SNP_P4_190707_448	NW_004520558.1	Scaffold7095	448	TT	CC	1947063376
SNP_P4_190708_645	NW_004520558.1	Scaffold7095	645	CC	TT	1947063378
SNP_P4_190709_647	NW_004520558.1	Scaffold7095	647	GG	AA	1947063380
SNP_P4_190710_4728	NW_004520558.1	Scaffold7095	4728	AA	CC	1947063382
SNP_P4_190711_4862	NW_004520558.1	Scaffold7095	4862	CC	TT	1947063384
SNP_P4_190712_5048	NW_004520558.1	Scaffold7095	5048	AA	CC	1947063386
SNP_P4_190713_5126	NW_004520558.1	Scaffold7095	5126	TT	GG	1947063388

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_190715_5440	NW_004520558.1	Scaffold7095	5440	GG	CC	1947063392
SNP_P4_190716_5510	NW_004520558.1	Scaffold7095	5510	AA	CC	1947063394
SNP_P4_190717_5520	NW_004520558.1	Scaffold7095	5520	TT	CC	1947063396
SNP_P4_190718_5560	NW_004520558.1	Scaffold7095	5560	CC	GG	1947063398
SNP_P4_190719_5602	NW_004520558.1	Scaffold7095	5602	GG	AA	1947063400
SNP_P4_190720_5732	NW_004520558.1	Scaffold7095	5732	TT	GG	1947063402
SNP_P4_190721_5807	NW_004520558.1	Scaffold7095	5807	TT	CC	1947063404
SNP_P4_190722_1771	NW_004520561.1	Scaffold7102	1771	AA	CC	1947063406
SNP_P4_190723_1796	NW_004520561.1	Scaffold7102	1796	TT	GG	1947063408
SNP_P4_190724_1914	NW_004520561.1	Scaffold7102	1914	CC	AA	1947063410
SNP_P4_190725_2080	NW_004520561.1	Scaffold7102	2080	CC	TT	1947063412
SNP_P4_190726_1041	NW_004520562.1	Scaffold7104	1041	CC	GG	1947063414
SNP_P4_190729_11941	NW_004520565.1	Scaffold7107	11941	GG	AA	1947063416
SNP_P4_190730_12077	NW_004520565.1	Scaffold7107	12077	GG	TT	1947063418
SNP_P4_190731_12200	NW_004520565.1	Scaffold7107	12200	TT	CC	1947063420
SNP_P4_190732_12205	NW_004520565.1	Scaffold7107	12205	TT	CC	1947063422
SNP_P4_190733_12224	NW_004520565.1	Scaffold7107	12224	TT	CC	1947063424
SNP_P4_190734_12375	NW_004520565.1	Scaffold7107	12375	AA	TT	1947063426
SNP_P4_190735_12458	NW_004520565.1	Scaffold7107	12458	AA	TT	1947063428
SNP_P4_190736_12589	NW_004520565.1	Scaffold7107	12589	TT	GG	1947063430
SNP_P4_190737_12647	NW_004520565.1	Scaffold7107	12647	AA	GG	1947063432
SNP_P4_190738_12661	NW_004520565.1	Scaffold7107	12661	TT	CC	1947063434
SNP_P4_190739_12662	NW_004520565.1	Scaffold7107	12662	GG	TT	1947063436
SNP_P4_190740_12681	NW_004520565.1	Scaffold7107	12681	CC	TT	1947063438
SNP_P4_190741_12697	NW_004520565.1	Scaffold7107	12697	TT	AA	1947063440
SNP_P4_190742_12765	NW_004520565.1	Scaffold7107	12765	GG	AA	1947063442
SNP_P4_190743_12805	NW_004520565.1	Scaffold7107	12805	AA	GG	1947063444
SNP_P4_190745_12860	NW_004520565.1	Scaffold7107	12860	CC	TT	1947063446
SNP_P4_190746_13170	NW_004520565.1	Scaffold7107	13170	GG	AA	1947063448
SNP_P4_190747_13256	NW_004520565.1	Scaffold7107	13256	AA	GG	1947063450
SNP_P4_190748_13266	NW_004520565.1	Scaffold7107	13266	TT	CC	1947063452
SNP_P4_190749_13299	NW_004520565.1	Scaffold7107	13299	CC	GG	1947063454
SNP_P4_190752_13483	NW_004520565.1	Scaffold7107	13483	GG	AA	1947063456
SNP_P4_190753_13978	NW_004520565.1	Scaffold7107	13978	AA	GG	1947063458
SNP_P4_190754_14260	NW_004520565.1	Scaffold7107	14260	CC	TT	1947063460
SNP_P4_190755_14298	NW_004520565.1	Scaffold7107	14298	AA	CC	1947063462
SNP_P4_190756_14314	NW_004520565.1	Scaffold7107	14314	CC	AA	1947063464
SNP_P4_190760_14926	NW_004520565.1	Scaffold7107	14926	GG	AA	1947063466
SNP_P4_190762_16188	NW_004520565.1	Scaffold7107	16188	CC	TT	1947063468
SNP_P4_190763_16244	NW_004520565.1	Scaffold7107	16244	TT	AA	1947063470
SNP_P4_190764_16246	NW_004520565.1	Scaffold7107	16246	AA	TT	1947063473

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_190768_17685	NW_004520565.1	Scaffold7107	17685	GG	AA	1947063477
SNP_P4_190769_17851	NW_004520565.1	Scaffold7107	17851	GG	AA	1947063479
SNP_P4_190770_17898	NW_004520565.1	Scaffold7107	17898	CC	TT	1947063481
SNP_P4_190772_18065	NW_004520565.1	Scaffold7107	18065	GG	AA	1947063483
SNP_P4_190773_18181	NW_004520565.1	Scaffold7107	18181	GG	AA	1947063485
SNP_P4_190774_19880	NW_004520565.1	Scaffold7107	19880	AA	GG	1947063487
SNP_P4_190775_19930	NW_004520565.1	Scaffold7107	19930	GG	CC	1947063489
SNP_P4_190776_20314	NW_004520565.1	Scaffold7107	20314	AA	GG	1947063491
SNP_P4_190777_20332	NW_004520565.1	Scaffold7107	20332	TT	CC	1947063493
SNP_P4_190778_20374	NW_004520565.1	Scaffold7107	20374	CC	TT	1947063495
SNP_P4_190779_21074	NW_004520565.1	Scaffold7107	21074	TT	AA	1947063497
SNP_P4_190780_21376	NW_004520565.1	Scaffold7107	21376	GG	AA	1947063499
SNP_P4_190781_21879	NW_004520565.1	Scaffold7107	21879	TT	CC	1947063501
SNP_P4_190782_22206	NW_004520565.1	Scaffold7107	22206	CC	AA	1947063503
SNP_P4_190784_25880	NW_004520565.1	Scaffold7107	25880	AA	CC	1947063505
SNP_P4_190785_25944	NW_004520565.1	Scaffold7107	25944	TT	CC	1947063507
SNP_P4_190786_26575	NW_004520565.1	Scaffold7107	26575	GG	TT	1947063509
SNP_P4_190787_746	NW_004520566.1	Scaffold7108	746	AA	CC	1947063511
SNP_P4_190788_998	NW_004520566.1	Scaffold7108	998	GG	TT	1947063513
SNP_P4_190789_1016	NW_004520566.1	Scaffold7108	1016	AA	CC	1947063515
SNP_P4_190790_1018	NW_004520566.1	Scaffold7108	1018	AA	GG	1947063517
SNP_P4_190791_1042	NW_004520566.1	Scaffold7108	1042	TT	AA	1947063519
SNP_P4_190792_1082	NW_004520566.1	Scaffold7108	1082	TT	GG	1947063521
SNP_P4_190793_1090	NW_004520566.1	Scaffold7108	1090	AA	GG	1947063523
SNP_P4_190794_1095	NW_004520566.1	Scaffold7108	1095	GG	AA	1947063525
SNP_P4_190795_1099	NW_004520566.1	Scaffold7108	1099	CC	AA	1947063527
SNP_P4_190796_1128	NW_004520566.1	Scaffold7108	1128	CC	AA	1947063529
SNP_P4_190797_1213	NW_004520566.1	Scaffold7108	1213	TT	GG	1947063531
SNP_P4_190798_2289	NW_004520566.1	Scaffold7108	2289	AA	TT	1947063533
SNP_P4_190799_2293	NW_004520566.1	Scaffold7108	2293	AA	GG	1947063535
SNP_P4_190800_5458	NW_004520566.1	Scaffold7108	5458	AA	GG	1947063537
SNP_P4_190801_5490	NW_004520566.1	Scaffold7108	5490	TT	AA	1947063539
SNP_P4_190802_5691	NW_004520566.1	Scaffold7108	5691	CC	TT	1947063541
SNP_P4_190803_5779	NW_004520566.1	Scaffold7108	5779	CC	AA	1947063543
SNP_P4_190804_5781	NW_004520566.1	Scaffold7108	5781	AA	TT	1947063545
SNP_P4_190805_5918	NW_004520566.1	Scaffold7108	5918	TT	GG	1947063547
SNP_P4_190806_6040	NW_004520566.1	Scaffold7108	6040	GG	AA	1947063549
SNP_P4_190807_6092	NW_004520566.1	Scaffold7108	6092	AA	GG	1947063551
SNP_P4_190808_6107	NW_004520566.1	Scaffold7108	6107	GG	AA	1947063553
SNP_P4_190809_6138	NW_004520566.1	Scaffold7108	6138	GG	CC	1947063555
SNP_P4_190811_2699	NW_004520567.1	Scaffold7109	2699	TT	CC	1947063557

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_190813_1178	NW_004520572.1	Scaffold7114	1178	CC	TT	1947063561
SNP_P4_190814_1215	NW_004520572.1	Scaffold7114	1215	TT	CC	1947063563
SNP_P4_190815_1247	NW_004520572.1	Scaffold7114	1247	TT	CC	1947063565
SNP_P4_190816_1259	NW_004520572.1	Scaffold7114	1259	TT	AA	1947063567
SNP_P4_190817_833	NW_004520581.1	Scaffold7129	833	TT	CC	1947063569
SNP_P4_190818_583	NW_004520585.1	Scaffold7134	583	GG	AA	1947063571
SNP_P4_190819_741	NW_004520585.1	Scaffold7134	741	AA	CC	1947063573
SNP_P4_190820_1033	NW_004520589.1	Scaffold7144	1033	GG	AA	1947063575
SNP_P4_190821_1104	NW_004520589.1	Scaffold7144	1104	GG	AA	1947063577
SNP_P4_190822_457	NW_004520592.1	Scaffold7148	457	AA	GG	1947063579
SNP_P4_190823_493	NW_004520592.1	Scaffold7148	493	CC	AA	1947063581
SNP_P4_190824_534	NW_004520592.1	Scaffold7148	534	CC	TT	1947063583
SNP_P4_190825_2783	NW_004520592.1	Scaffold7148	2783	TT	CC	1947063585
SNP_P4_190826_3055	NW_004520592.1	Scaffold7148	3055	CC	GG	1947063587
SNP_P4_190827_3179	NW_004520592.1	Scaffold7148	3179	CC	TT	1947063589
SNP_P4_190828_3232	NW_004520592.1	Scaffold7148	3232	CC	TT	1947063591
SNP_P4_190829_3693	NW_004520592.1	Scaffold7148	3693	TT	CC	1947063593
SNP_P4_190830_3695	NW_004520592.1	Scaffold7148	3695	TT	CC	1947063595
SNP_P4_190831_3971	NW_004520592.1	Scaffold7148	3971	CC	TT	1947063597
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SNP_P4_190836_7517	NW_004520592.1	Scaffold7148	7517	CC	TT	1947063605
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SNP_P4_190839_7593	NW_004520592.1	Scaffold7148	7593	TT	CC	1947063611
SNP_P4_190840_7595	NW_004520592.1	Scaffold7148	7595	GG	TT	1947063613
SNP_P4_190841_833	NW_004520593.1	Scaffold7152	833	TT	GG	1947063615
SNP_P4_190842_898	NW_004520593.1	Scaffold7152	898	CC	AA	1947063617
SNP_P4_190843_942	NW_004520593.1	Scaffold7152	942	GG	TT	1947063619
SNP_P4_190844_943	NW_004520593.1	Scaffold7152	943	AA	CC	1947063621
SNP_P4_190845_1029	NW_004520593.1	Scaffold7152	1029	TT	CC	1947063623
SNP_P4_190847_582	NW_004520595.1	Scaffold7154	582	AA	GG	1947063625
SNP_P4_190848_846	NW_004520595.1	Scaffold7154	846	AA	GG	1947063627
SNP_P4_190849_7411	NW_004520595.1	Scaffold7154	7411	GG	TT	1947063629
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SNP_P4_190851_7456	NW_004520595.1	Scaffold7154	7456	CC	AA	1947063633
SNP_P4_190852_7511	NW_004520595.1	Scaffold7154	7511	CC	TT	1947063635
SNP_P4_190853_7552	NW_004520595.1	Scaffold7154	7552	AA	GG	1947063637
SNP_P4_190854_7599	NW_004520595.1	Scaffold7154	7599	TT	AA	1947063639
SNP_P4_190855_7617	NW_004520595.1	Scaffold7154	7617	GG	TT	1947063641

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_190857_1340	NW_004520597.1	Scaffold7156	1340	CC	GG	1947063645
SNP_P4_190858_1111	NW_004520598.1	Scaffold7157	1111	TT	AA	1947063647
SNP_P4_190859_1134	NW_004520598.1	Scaffold7157	1134	TT	CC	1947063649
SNP_P4_190860_1137	NW_004520598.1	Scaffold7157	1137	GG	AA	1947063651
SNP_P4_190862_306	NW_004520607.1	Scaffold7171	306	GG	TT	1947063653
SNP_P4_190863_376	NW_004520607.1	Scaffold7171	376	TT	CC	1947063655
SNP_P4_190864_377	NW_004520607.1	Scaffold7171	377	AA	TT	1947063657
SNP_P4_190865_866	NW_004520610.1	Scaffold7174	866	GG	CC	1947063659
SNP_P4_190866_2050	NW_004520611.1	Scaffold7176	2050	AA	TT	1947063661
SNP_P4_190868_3751	NW_004520611.1	Scaffold7176	3751	GG	AA	1947063663
SNP_P4_190869_3827	NW_004520611.1	Scaffold7176	3827	AA	CC	1947063665
SNP_P4_190870_3873	NW_004520611.1	Scaffold7176	3873	TT	CC	1947063667
SNP_P4_190871_4208	NW_004520611.1	Scaffold7176	4208	AA	GG	1947063669
SNP_P4_190872_4257	NW_004520611.1	Scaffold7176	4257	GG	AA	1947063671
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SNP_P4_190874_63	NW_004520614.1	Scaffold7182	63	TT	CC	1947063675
SNP_P4_190875_76	NW_004520614.1	Scaffold7182	76	TT	GG	1947063677
SNP_P4_190876_85	NW_004520614.1	Scaffold7182	85	AA	CC	1947063679
SNP_P4_190877_103	NW_004520614.1	Scaffold7182	103	TT	CC	1947063681
SNP_P4_190878_312	NW_004520615.1	Scaffold7183	312	TT	AA	1947063683
SNP_P4_190879_340	NW_004520615.1	Scaffold7183	340	CC	TT	1947063685
SNP_P4_190880_358	NW_004520615.1	Scaffold7183	358	GG	AA	1947063687
SNP_P4_190881_407	NW_004520616.1	Scaffold7184	407	AA	GG	1947063689
SNP_P4_190882_624	NW_004520619.1	Scaffold7187	624	AA	CC	1947063691
SNP_P4_190883_646	NW_004520619.1	Scaffold7187	646	GG	CC	1947063693
SNP_P4_190884_801	NW_004520619.1	Scaffold7187	801	TT	GG	1947063695
SNP_P4_190886_906	NW_004520619.1	Scaffold7187	906	GG	AA	1947063697
SNP_P4_190887_912	NW_004520619.1	Scaffold7187	912	AA	TT	1947063699
SNP_P4_190888_1044	NW_004520619.1	Scaffold7187	1044	CC	TT	1947063701
SNP_P4_190889_338	NW_004520625.1	Scaffold7196	338	AA	CC	1947063703
SNP_P4_190890_560	NW_004520625.1	Scaffold7196	560	CC	TT	1947063705
SNP_P4_190891_612	NW_004520625.1	Scaffold7196	612	GG	AA	1947063707
SNP_P4_190893_642	NW_004520625.1	Scaffold7196	642	CC	AA	1947063709
SNP_P4_190894_732	NW_004520625.1	Scaffold7196	732	AA	CC	1947063711
SNP_P4_190895_774	NW_004520625.1	Scaffold7196	774	TT	CC	1947063713
SNP_P4_190897_889	NW_004520625.1	Scaffold7196	889	GG	TT	1947063715
SNP_P4_190898_1064	NW_004520625.1	Scaffold7196	1064	GG	AA	1947063717
SNP_P4_190899_2032	NW_004520625.1	Scaffold7196	2032	TT	AA	1947063719
SNP_P4_190900_2063	NW_004520625.1	Scaffold7196	2063	CC	TT	1947063721
SNP_P4_190901_2095	NW_004520625.1	Scaffold7196	2095	AA	GG	1947063723
SNP_P4_190902_2165	NW_004520625.1	Scaffold7196	2165	AA	GG	1947063725

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_190903_2197	NW_004520625.1	Scaffold7196	2197	AA	GG	1947063727
SNP_P4_190904_2217	NW_004520625.1	Scaffold7196	2217	CC	GG	1947063729
SNP_P4_190906_4910	NW_004520627.1	Scaffold7199	4910	GG	AA	1947063731
SNP_P4_190907_64	NW_004520629.1	Scaffold7201	64	TT	AA	1947063733
SNP_P4_190908_80	NW_004520629.1	Scaffold7201	80	TT	GG	1947063735
SNP_P4_190909_963	NW_004520631.1	Scaffold7203	963	GG	AA	1947063737
SNP_P4_190910_968	NW_004520631.1	Scaffold7203	968	TT	AA	1947063739
SNP_P4_190911_1824	NW_004520634.1	Scaffold7210	1824	AA	TT	1947063741
SNP_P4_190912_1914	NW_004520634.1	Scaffold7210	1914	GG	TT	1947063743
SNP_P4_190913_4982	NW_004520634.1	Scaffold7210	4982	TT	GG	1947063745
SNP_P4_190914_6997	NW_004520634.1	Scaffold7210	6997	TT	CC	1947063747
SNP_P4_190915_7032	NW_004520634.1	Scaffold7210	7032	AA	GG	1947063749
SNP_P4_190917_7458	NW_004520634.1	Scaffold7210	7458	AA	TT	1947063751
SNP_P4_190919_7727	NW_004520634.1	Scaffold7210	7727	GG	CC	1947063753
SNP_P4_190920_7749	NW_004520634.1	Scaffold7210	7749	GG	AA	1947063755
SNP_P4_190921_7802	NW_004520634.1	Scaffold7210	7802	TT	GG	1947063757
SNP_P4_190922_7854	NW_004520634.1	Scaffold7210	7854	GG	TT	1947063759
SNP_P4_190923_920	NW_004520635.1	Scaffold7213	920	CC	GG	1947063762
SNP_P4_190924_131	NW_004520636.1	Scaffold7216	131	AA	CC	1947063764
SNP_P4_190925_148	NW_004520636.1	Scaffold7216	148	AA	GG	1947063766
SNP_P4_190926_185	NW_004520636.1	Scaffold7216	185	AA	CC	1947063768
SNP_P4_190927_200	NW_004520636.1	Scaffold7216	200	AA	GG	1947063770
SNP_P4_190928_229	NW_004520636.1	Scaffold7216	229	AA	GG	1947063772
SNP_P4_190929_447	NW_004520636.1	Scaffold7216	447	AA	GG	1947063774
SNP_P4_190930_459	NW_004520636.1	Scaffold7216	459	TT	AA	1947063776
SNP_P4_190931_460	NW_004520636.1	Scaffold7216	460	TT	GG	1947063778
SNP_P4_190932_518	NW_004520636.1	Scaffold7216	518	CC	AA	1947063780
SNP_P4_190933_568	NW_004520636.1	Scaffold7216	568	CC	TT	1947063782
SNP_P4_190934_580	NW_004520636.1	Scaffold7216	580	TT	AA	1947063784
SNP_P4_190935_591	NW_004520636.1	Scaffold7216	591	AA	GG	1947063786
SNP_P4_190936_646	NW_004520636.1	Scaffold7216	646	AA	GG	1947063788
SNP_P4_190937_2829	NW_004520636.1	Scaffold7216	2829	AA	CC	1947063790
SNP_P4_190938_2948	NW_004520636.1	Scaffold7216	2948	AA	TT	1947063792
SNP_P4_190939_20597	NW_004520639.1	Scaffold7221	20597	GG	AA	1947063794
SNP_P4_190940_20606	NW_004520639.1	Scaffold7221	20606	AA	TT	1947063796
SNP_P4_190941_20614	NW_004520639.1	Scaffold7221	20614	TT	CC	1947063798
SNP_P4_190942_405	NW_004520641.1	Scaffold7225	405	AA	TT	1947063800
SNP_P4_190943_366	NW_004520645.1	Scaffold7229	366	TT	AA	1947063802
SNP_P4_190944_410	NW_004520646.1	Scaffold7231	410	CC	TT	1947063804
SNP_P4_190945_414	NW_004520646.1	Scaffold7231	414	AA	GG	1947063806
SNP_P4_190946_1431	NW_004520646.1	Scaffold7231	1431	CC	AA	1947063808
SNP_P4_190947_40	NW_004520647.1	Scaffold7235	40	GG	AA	1947063810

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_190949_44	NW_004520647.1	Scaffold7235	44	TT	CC	1947063814
SNP_P4_190950_45	NW_004520647.1	Scaffold7235	45	GG	AA	1947063816
SNP_P4_190951_312	NW_004520653.1	Scaffold7245	312	TT	CC	1947063818
SNP_P4_190952_374	NW_004520653.1	Scaffold7245	374	TT	CC	1947063820
SNP_P4_190953_427	NW_004520653.1	Scaffold7245	427	TT	CC	1947063822
SNP_P4_190954_444	NW_004520653.1	Scaffold7245	444	AA	CC	1947063824
SNP_P4_190955_655	NW_004520653.1	Scaffold7245	655	AA	GG	1947063826
SNP_P4_190956_872	NW_004520653.1	Scaffold7245	872	GG	CC	1947063828
SNP_P4_190957_1287	NW_004520656.1	Scaffold7249	1287	TT	GG	1947063830
SNP_P4_190958_1337	NW_004520656.1	Scaffold7249	1337	TT	GG	1947063832
SNP_P4_190959_1354	NW_004520656.1	Scaffold7249	1354	GG	AA	1947063834
SNP_P4_190960_1391	NW_004520656.1	Scaffold7249	1391	AA	CC	1947063836
SNP_P4_190961_1404	NW_004520656.1	Scaffold7249	1404	CC	TT	1947063838
SNP_P4_190962_1597	NW_004520656.1	Scaffold7249	1597	CC	TT	1947063840
SNP_P4_190963_502	NW_004520661.1	Scaffold7254	502	GG	AA	1947063842
SNP_P4_190964_547	NW_004520661.1	Scaffold7254	547	CC	AA	1947063844
SNP_P4_190965_548	NW_004520661.1	Scaffold7254	548	TT	CC	1947063846
SNP_P4_190966_781	NW_004520661.1	Scaffold7254	781	AA	GG	1947063849
SNP_P4_190967_785	NW_004520661.1	Scaffold7254	785	TT	GG	1947063851
SNP_P4_190968_800	NW_004520661.1	Scaffold7254	800	TT	CC	1947063853
SNP_P4_190969_801	NW_004520661.1	Scaffold7254	801	TT	AA	1947063855
SNP_P4_190970_820	NW_004520661.1	Scaffold7254	820	TT	AA	1947063857
SNP_P4_190971_999	NW_004520661.1	Scaffold7254	999	TT	AA	1947063859
SNP_P4_190972_567	NW_004520664.1	Scaffold7261	567	GG	AA	1947063861
SNP_P4_190973_4762	NW_004520668.1	Scaffold7267	4762	GG	TT	1947063863
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SNP_P4_190975_4844	NW_004520668.1	Scaffold7267	4844	TT	CC	1947063867
SNP_P4_190976_5024	NW_004520668.1	Scaffold7267	5024	CC	GG	1947063869
SNP_P4_190977_5054	NW_004520668.1	Scaffold7267	5054	GG	TT	1947063871
SNP_P4_190978_525	NW_004520670.1	Scaffold7269	525	TT	CC	1947063873
SNP_P4_190979_579	NW_004520670.1	Scaffold7269	579	AA	CC	1947063875
SNP_P4_190980_629	NW_004520670.1	Scaffold7269	629	CC	AA	1947063877
SNP_P4_190981_640	NW_004520670.1	Scaffold7269	640	AA	TT	1947063879
SNP_P4_190982_660	NW_004520670.1	Scaffold7269	660	AA	TT	1947063881
SNP_P4_190983_809	NW_004520670.1	Scaffold7269	809	CC	TT	1947063883
SNP_P4_190984_818	NW_004520670.1	Scaffold7269	818	CC	AA	1947063885
SNP_P4_190985_825	NW_004520670.1	Scaffold7269	825	GG	AA	1947063887
SNP_P4_190986_898	NW_004520670.1	Scaffold7269	898	TT	GG	1947063889
SNP_P4_190987_905	NW_004520670.1	Scaffold7269	905	AA	CC	1947063891
SNP_P4_190988_41	NW_004520671.1	Scaffold7272	41	AA	TT	1947063893
SNP_P4_190989_64	NW_004520671.1	Scaffold7272	64	AA	CC	1947063895

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_190991_127	NW_004520671.1	Scaffold7272	127	TT	GG	1947063899
SNP_P4_190992_385	NW_004520671.1	Scaffold7272	385	AA	CC	1947063901
SNP_P4_190993_440	NW_004520671.1	Scaffold7272	440	AA	GG	1947063903
SNP_P4_190995_918	NW_004520674.1	Scaffold7279	918	CC	TT	1947063905
SNP_P4_190997_1583	NW_004520675.1	Scaffold7280	1583	AA	TT	1947063907
SNP_P4_190998_1590	NW_004520675.1	Scaffold7280	1590	GG	AA	1947063909
SNP_P4_191000_912	NW_004520677.1	Scaffold7289	912	GG	TT	1947063911
SNP_P4_191001_11901	NW_004520678.1	Scaffold7293	11901	CC	TT	1947063913
SNP_P4_191002_12791	NW_004520678.1	Scaffold7293	12791	AA	TT	1947063915
SNP_P4_191003_12830	NW_004520678.1	Scaffold7293	12830	CC	GG	1947063917
SNP_P4_191004_12944	NW_004520678.1	Scaffold7293	12944	GG	AA	1947063919
SNP_P4_191006_13252	NW_004520678.1	Scaffold7293	13252	GG	TT	1947063921
SNP_P4_191007_13280	NW_004520678.1	Scaffold7293	13280	AA	TT	1947063923
SNP_P4_191008_13305	NW_004520678.1	Scaffold7293	13305	CC	TT	1947063925
SNP_P4_191009_13351	NW_004520678.1	Scaffold7293	13351	TT	CC	1947063927
SNP_P4_191010_13406	NW_004520678.1	Scaffold7293	13406	AA	GG	1947063935
SNP_P4_191011_13416	NW_004520678.1	Scaffold7293	13416	TT	CC	1947063937
SNP_P4_191012_13442	NW_004520678.1	Scaffold7293	13442	AA	GG	1947063939
SNP_P4_191013_13457	NW_004520678.1	Scaffold7293	13457	GG	AA	1947063941
SNP_P4_191014_13500	NW_004520678.1	Scaffold7293	13500	GG	AA	1947063943
SNP_P4_191016_13741	NW_004520678.1	Scaffold7293	13741	TT	GG	1947063945
SNP_P4_191017_13760	NW_004520678.1	Scaffold7293	13760	CC	GG	1947063947
SNP_P4_191018_13764	NW_004520678.1	Scaffold7293	13764	CC	TT	1947063949
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SNP_P4_191022_14006	NW_004520678.1	Scaffold7293	14006	GG	TT	1947063957
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SNP_P4_191024_14128	NW_004520678.1	Scaffold7293	14128	GG	TT	1947063961
SNP_P4_191025_14161	NW_004520678.1	Scaffold7293	14161	TT	AA	1947063963
SNP_P4_191026_14163	NW_004520678.1	Scaffold7293	14163	AA	GG	1947063965
SNP_P4_191027_14234	NW_004520678.1	Scaffold7293	14234	TT	CC	1947063967
SNP_P4_191028_14242	NW_004520678.1	Scaffold7293	14242	AA	GG	1947063969
SNP_P4_191029_14244	NW_004520678.1	Scaffold7293	14244	CC	TT	1947063971
SNP_P4_191030_14262	NW_004520678.1	Scaffold7293	14262	AA	TT	1947063973
SNP_P4_191031_14385	NW_004520678.1	Scaffold7293	14385	CC	TT	1947063975
SNP_P4_191032_14401	NW_004520678.1	Scaffold7293	14401	AA	GG	1947063977
SNP_P4_191033_14498	NW_004520678.1	Scaffold7293	14498	GG	AA	1947063979
SNP_P4_191034_14502	NW_004520678.1	Scaffold7293	14502	AA	TT	1947063981
SNP_P4_191035_14507	NW_004520678.1	Scaffold7293	14507	GG	AA	1947063983
SNP_P4_191036_14530	NW_004520678.1	Scaffold7293	14530	CC	GG	1947063985

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_191038_14658	NW_004520678.1	Scaffold7293	14658	CC	TT	1947063989
SNP_P4_191039_14660	NW_004520678.1	Scaffold7293	14660	GG	AA	1947063991
SNP_P4_191040_14685	NW_004520678.1	Scaffold7293	14685	CC	GG	1947063993
SNP_P4_191041_14758	NW_004520678.1	Scaffold7293	14758	TT	CC	1947063995
SNP_P4_191042_14816	NW_004520678.1	Scaffold7293	14816	TT	CC	1947063997
SNP_P4_191043_14860	NW_004520678.1	Scaffold7293	14860	TT	GG	1947063999
SNP_P4_191044_14924	NW_004520678.1	Scaffold7293	14924	GG	AA	1947064001
SNP_P4_191045_14948	NW_004520678.1	Scaffold7293	14948	AA	GG	1947064003
SNP_P4_191046_14961	NW_004520678.1	Scaffold7293	14961	GG	AA	1947064005
SNP_P4_191047_14977	NW_004520678.1	Scaffold7293	14977	CC	TT	1947064007
SNP_P4_191048_14992	NW_004520678.1	Scaffold7293	14992	GG	AA	1947064009
SNP_P4_191049_15017	NW_004520678.1	Scaffold7293	15017	GG	AA	1947064011
SNP_P4_191050_15203	NW_004520678.1	Scaffold7293	15203	CC	TT	1947064013
SNP_P4_191051_15253	NW_004520678.1	Scaffold7293	15253	AA	CC	1947064015
SNP_P4_191052_15359	NW_004520678.1	Scaffold7293	15359	CC	AA	1947064017
SNP_P4_191053_15423	NW_004520678.1	Scaffold7293	15423	GG	AA	1947064019
SNP_P4_191055_15584	NW_004520678.1	Scaffold7293	15584	CC	TT	1947064021
SNP_P4_191056_15684	NW_004520678.1	Scaffold7293	15684	CC	AA	1947064023
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SNP_P4_191058_15812	NW_004520678.1	Scaffold7293	15812	AA	GG	1947064027
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SNP_P4_191060_15956	NW_004520678.1	Scaffold7293	15956	CC	TT	1947064031
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SNP_P4_191064_19545	NW_004520678.1	Scaffold7293	19545	TT	AA	1947064039
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SNP_P4_191068_19719	NW_004520678.1	Scaffold7293	19719	AA	GG	1947064047
SNP_P4_191069_19731	NW_004520678.1	Scaffold7293	19731	AA	GG	1947064049
SNP_P4_191070_19764	NW_004520678.1	Scaffold7293	19764	AA	TT	1947064051
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SNP_P4_191073_19779	NW_004520678.1	Scaffold7293	19779	CC	AA	1947064057
SNP_P4_191074_19837	NW_004520678.1	Scaffold7293	19837	GG	CC	1947064059
SNP_P4_191075_19843	NW_004520678.1	Scaffold7293	19843	AA	CC	1947064061
SNP_P4_191076_19923	NW_004520678.1	Scaffold7293	19923	TT	AA	1947064063
SNP_P4_191077_19988	NW_004520678.1	Scaffold7293	19988	TT	AA	1947064065
SNP_P4_191078_20048	NW_004520678.1	Scaffold7293	20048	GG	AA	1947064067
SNP_P4_191079_20075	NW_004520678.1	Scaffold7293	20075	CC	AA	1947064069

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_191083_20227	NW_004520678.1	Scaffold7293	20227	TT	GG	1947064075
SNP_P4_191084_20294	NW_004520678.1	Scaffold7293	20294	TT	AA	1947064077
SNP_P4_191085_20437	NW_004520678.1	Scaffold7293	20437	CC	TT	1947064082
SNP_P4_191086_20460	NW_004520678.1	Scaffold7293	20460	AA	TT	1947064084
SNP_P4_191087_20535	NW_004520678.1	Scaffold7293	20535	CC	GG	1947064086
SNP_P4_191088_20615	NW_004520678.1	Scaffold7293	20615	TT	CC	1947064088
SNP_P4_191089_20639	NW_004520678.1	Scaffold7293	20639	GG	AA	1947064090
SNP_P4_191090_20661	NW_004520678.1	Scaffold7293	20661	CC	GG	1947064092
SNP_P4_191091_20707	NW_004520678.1	Scaffold7293	20707	TT	CC	1947064094
SNP_P4_191092_21207	NW_004520678.1	Scaffold7293	21207	AA	CC	1947064096
SNP_P4_191094_21363	NW_004520678.1	Scaffold7293	21363	TT	CC	1947064098
SNP_P4_191095_21445	NW_004520678.1	Scaffold7293	21445	GG	AA	1947064100
SNP_P4_191096_21523	NW_004520678.1	Scaffold7293	21523	GG	AA	1947064102
SNP_P4_191097_21589	NW_004520678.1	Scaffold7293	21589	TT	GG	1947064104
SNP_P4_191098_21611	NW_004520678.1	Scaffold7293	21611	CC	TT	1947064106
SNP_P4_191099_21703	NW_004520678.1	Scaffold7293	21703	CC	AA	1947064108
SNP_P4_191100_21717	NW_004520678.1	Scaffold7293	21717	TT	CC	1947064110
SNP_P4_191101_21744	NW_004520678.1	Scaffold7293	21744	TT	CC	1947064112
SNP_P4_191102_21833	NW_004520678.1	Scaffold7293	21833	CC	TT	1947064114
SNP_P4_191103_22155	NW_004520678.1	Scaffold7293	22155	GG	AA	1947064115
SNP_P4_191104_22311	NW_004520678.1	Scaffold7293	22311	CC	AA	1947064117
SNP_P4_191105_568	NW_004520679.1	Scaffold7294	568	TT	AA	1947064119
SNP_P4_191106_387	NW_004520680.1	Scaffold7295	387	TT	GG	1947064121
SNP_P4_191107_855	NW_004520680.1	Scaffold7295	855	AA	GG	1947064123
SNP_P4_191108_1004	NW_004520680.1	Scaffold7295	1004	GG	TT	1947064125
SNP_P4_191109_1007	NW_004520680.1	Scaffold7295	1007	TT	CC	1947064127
SNP_P4_191110_1025	NW_004520680.1	Scaffold7295	1025	TT	CC	1947064129
SNP_P4_191112_865	NW_004520682.1	Scaffold7299	865	GG	AA	1947064131
SNP_P4_191114_1362	NW_004520684.1	Scaffold7302	1362	AA	CC	1947064133
SNP_P4_191115_1371	NW_004520684.1	Scaffold7302	1371	AA	CC	1947064135
SNP_P4_191117_556	NW_004520686.1	Scaffold7304	556	TT	GG	1947064137
SNP_P4_191118_352	NW_004520689.1	Scaffold7313	352	AA	CC	1947064139
SNP_P4_191119_1001	NW_004520689.1	Scaffold7313	1001	AA	CC	1947064141
SNP_P4_191120_1089	NW_004520689.1	Scaffold7313	1089	TT	GG	1947064143
SNP_P4_191121_1343	NW_004520689.1	Scaffold7313	1343	CC	AA	1947064145
SNP_P4_191122_1410	NW_004520689.1	Scaffold7313	1410	AA	TT	1947064146
SNP_P4_191123_1411	NW_004520689.1	Scaffold7313	1411	GG	CC	1947064148
SNP_P4_191124_1225	NW_004520690.1	Scaffold7314	1225	CC	TT	1947064150
SNP_P4_191125_1278	NW_004520690.1	Scaffold7314	1278	CC	TT	1947064152
SNP_P4_191126_1297	NW_004520690.1	Scaffold7314	1297	CC	TT	1947064154

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_191128_1342	NW_004520690.1	Scaffold7314	1342	CC	TT	1947064158
SNP_P4_191129_1366	NW_004520690.1	Scaffold7314	1366	GG	AA	1947064160
SNP_P4_191130_1375	NW_004520690.1	Scaffold7314	1375	GG	AA	1947064162
SNP_P4_191131_1414	NW_004520690.1	Scaffold7314	1414	GG	AA	1947064164
SNP_P4_191132_1432	NW_004520690.1	Scaffold7314	1432	GG	TT	1947064166
SNP_P4_191133_1572	NW_004520690.1	Scaffold7314	1572	TT	GG	1947064168
SNP_P4_191134_1723	NW_004520690.1	Scaffold7314	1723	CC	TT	1947064170
SNP_P4_191135_1726	NW_004520690.1	Scaffold7314	1726	AA	GG	1947064171
SNP_P4_191136_1729	NW_004520690.1	Scaffold7314	1729	CC	TT	1947064173
SNP_P4_191137_1738	NW_004520690.1	Scaffold7314	1738	TT	AA	1947064175
SNP_P4_191138_1759	NW_004520690.1	Scaffold7314	1759	AA	TT	1947064177
SNP_P4_191139_1762	NW_004520690.1	Scaffold7314	1762	TT	GG	1947064179
SNP_P4_191140_1780	NW_004520690.1	Scaffold7314	1780	AA	GG	1947064181
SNP_P4_191141_1804	NW_004520690.1	Scaffold7314	1804	CC	TT	1947064183
SNP_P4_191142_1856	NW_004520690.1	Scaffold7314	1856	TT	AA	1947064185
SNP_P4_191143_1869	NW_004520690.1	Scaffold7314	1869	GG	TT	1947064187
SNP_P4_191144_1880	NW_004520690.1	Scaffold7314	1880	GG	AA	1947064189
SNP_P4_191145_1882	NW_004520690.1	Scaffold7314	1882	AA	GG	1947064191
SNP_P4_191146_171	NW_004520692.1	Scaffold7316	171	AA	CC	1947064192
SNP_P4_191147_409	NW_004520692.1	Scaffold7316	409	AA	GG	1947064194
SNP_P4_191148_719	NW_004520692.1	Scaffold7316	719	GG	AA	1947064196
SNP_P4_191149_791	NW_004520692.1	Scaffold7316	791	GG	AA	1947064198
SNP_P4_191150_796	NW_004520692.1	Scaffold7316	796	AA	CC	1947064200
SNP_P4_191151_857	NW_004520692.1	Scaffold7316	857	GG	AA	1947064202
SNP_P4_191152_965	NW_004520692.1	Scaffold7316	965	CC	GG	1947064204
SNP_P4_191153_981	NW_004520692.1	Scaffold7316	981	GG	AA	1947064206
SNP_P4_191154_1102	NW_004520692.1	Scaffold7316	1102	TT	CC	1947064208
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SNP_P4_191156_1335	NW_004520692.1	Scaffold7316	1335	GG	AA	1947064212
SNP_P4_191157_1370	NW_004520692.1	Scaffold7316	1370	TT	GG	1947064213
SNP_P4_191158_64	NW_004520693.1	Scaffold7318	64	TT	GG	1947064215
SNP_P4_191159_80	NW_004520693.1	Scaffold7318	80	AA	GG	1947064217
SNP_P4_191160_113	NW_004520693.1	Scaffold7318	113	CC	GG	1947064219
SNP_P4_191161_441	NW_004520693.1	Scaffold7318	441	AA	GG	1947064221
SNP_P4_191162_712	NW_004520698.1	Scaffold7327	712	AA	GG	1947064223
SNP_P4_191163_713	NW_004520698.1	Scaffold7327	713	CC	GG	1947064225
SNP_P4_191164_8330	NW_004520698.1	Scaffold7327	8330	TT	CC	1947064227
SNP_P4_191165_8347	NW_004520698.1	Scaffold7327	8347	AA	GG	1947064229
SNP_P4_191166_8348	NW_004520698.1	Scaffold7327	8348	TT	AA	1947064231
SNP_P4_191167_1810	NW_004520700.1	Scaffold7330	1810	AA	CC	1947064232
SNP_P4_191168_1869	NW_004520700.1	Scaffold7330	1869	AA	GG	1947064234

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_191170_2170	NW_004520700.1	Scaffold7330	2170	CC	TT	1947064238
SNP_P4_191172_2282	NW_004520700.1	Scaffold7330	2282	GG	TT	1947064240
SNP_P4_191173_2284	NW_004520700.1	Scaffold7330	2284	GG	AA	1947064242
SNP_P4_191174_2298	NW_004520700.1	Scaffold7330	2298	TT	GG	1947064244
SNP_P4_191175_2311	NW_004520700.1	Scaffold7330	2311	AA	TT	1947064246
SNP_P4_191176_2312	NW_004520700.1	Scaffold7330	2312	TT	AA	1947064248
SNP_P4_191177_2465	NW_004520700.1	Scaffold7330	2465	GG	TT	1947064250
SNP_P4_191178_2737	NW_004520700.1	Scaffold7330	2737	TT	CC	1947064252
SNP_P4_191179_2747	NW_004520700.1	Scaffold7330	2747	GG	TT	1947064254
SNP_P4_191180_2755	NW_004520700.1	Scaffold7330	2755	AA	TT	1947064256
SNP_P4_191181_2794	NW_004520700.1	Scaffold7330	2794	AA	CC	1947064258
SNP_P4_191183_81	NW_004520703.1	Scaffold7335	81	CC	GG	1947064260
SNP_P4_191185_287	NW_004520704.1	Scaffold7336	287	AA	CC	1947064262
SNP_P4_191186_81	NW_004520705.1	Scaffold7340	81	TT	AA	1947064264
SNP_P4_191187_508	NW_004520705.1	Scaffold7340	508	AA	TT	1947064266
SNP_P4_191188_2497	NW_004520705.1	Scaffold7340	2497	AA	CC	1947064267
SNP_P4_191189_627	NW_004520713.1	Scaffold7355	627	AA	GG	1947064269
SNP_P4_191190_1840	NW_004520713.1	Scaffold7355	1840	GG	AA	1947064271
SNP_P4_191192_1986	NW_004520713.1	Scaffold7355	1986	GG	CC	1947064273
SNP_P4_191193_4357	NW_004520713.1	Scaffold7355	4357	CC	TT	1947064275
SNP_P4_191194_4379	NW_004520713.1	Scaffold7355	4379	AA	TT	1947064277
SNP_P4_191195_4399	NW_004520713.1	Scaffold7355	4399	GG	AA	1947064279
SNP_P4_191196_6314	NW_004520713.1	Scaffold7355	6314	AA	GG	1947064281
SNP_P4_191197_6327	NW_004520713.1	Scaffold7355	6327	TT	AA	1947064283
SNP_P4_191198_6328	NW_004520713.1	Scaffold7355	6328	CC	AA	1947064285
SNP_P4_191199_6641	NW_004520713.1	Scaffold7355	6641	CC	GG	1947064287
SNP_P4_191201_8581	NW_004520713.1	Scaffold7355	8581	CC	GG	1947064289
SNP_P4_191202_8588	NW_004520713.1	Scaffold7355	8588	AA	CC	1947064291
SNP_P4_191203_8610	NW_004520713.1	Scaffold7355	8610	GG	TT	1947064293
SNP_P4_191205_9215	NW_004520713.1	Scaffold7355	9215	AA	GG	1947064295
SNP_P4_191206_9233	NW_004520713.1	Scaffold7355	9233	AA	CC	1947064297
SNP_P4_191207_9282	NW_004520713.1	Scaffold7355	9282	CC	AA	1947064299
SNP_P4_191209_9393	NW_004520713.1	Scaffold7355	9393	GG	TT	1947064300
SNP_P4_191210_9481	NW_004520713.1	Scaffold7355	9481	GG	CC	1947064302
SNP_P4_191212_9506	NW_004520713.1	Scaffold7355	9506	TT	CC	1947064304
SNP_P4_191214_9616	NW_004520713.1	Scaffold7355	9616	GG	AA	1947064306
SNP_P4_191215_9617	NW_004520713.1	Scaffold7355	9617	CC	AA	1947064308
SNP_P4_191216_9630	NW_004520713.1	Scaffold7355	9630	GG	TT	1947064310
SNP_P4_191217_9647	NW_004520713.1	Scaffold7355	9647	TT	CC	1947064312
SNP_P4_191218_9671	NW_004520713.1	Scaffold7355	9671	AA	TT	1947064314
SNP_P4_191219_9674	NW_004520713.1	Scaffold7355	9674	GG	AA	1947064316

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_191221_10656	NW_004520713.1	Scaffold7355	10656	TT	GG	1947064320
SNP_P4_191222_10666	NW_004520713.1	Scaffold7355	10666	GG	AA	1947064322
SNP_P4_191223_14264	NW_004520713.1	Scaffold7355	14264	TT	GG	1947064324
SNP_P4_191224_14799	NW_004520713.1	Scaffold7355	14799	AA	GG	1947064326
SNP_P4_191225_14804	NW_004520713.1	Scaffold7355	14804	AA	GG	1947064328
SNP_P4_191226_14819	NW_004520713.1	Scaffold7355	14819	CC	AA	1947064330
SNP_P4_191227_14833	NW_004520713.1	Scaffold7355	14833	AA	TT	1947064332
SNP_P4_191228_14841	NW_004520713.1	Scaffold7355	14841	AA	GG	1947064334
SNP_P4_191231_18768	NW_004520713.1	Scaffold7355	18768	GG	CC	1947064336
SNP_P4_191232_19124	NW_004520713.1	Scaffold7355	19124	AA	TT	1947064338
SNP_P4_191233_19128	NW_004520713.1	Scaffold7355	19128	TT	AA	1947064340
SNP_P4_191234_19139	NW_004520713.1	Scaffold7355	19139	CC	TT	1947064342
SNP_P4_191235_19150	NW_004520713.1	Scaffold7355	19150	AA	GG	1947064344
SNP_P4_191236_19167	NW_004520713.1	Scaffold7355	19167	CC	GG	1947064345
SNP_P4_191237_19204	NW_004520713.1	Scaffold7355	19204	AA	GG	1947064347
SNP_P4_191238_19256	NW_004520713.1	Scaffold7355	19256	TT	CC	1947064349
SNP_P4_191239_19262	NW_004520713.1	Scaffold7355	19262	AA	GG	1947064351
SNP_P4_191240_19318	NW_004520713.1	Scaffold7355	19318	TT	CC	1947064353
SNP_P4_191241_19321	NW_004520713.1	Scaffold7355	19321	TT	CC	1947064355
SNP_P4_191242_19336	NW_004520713.1	Scaffold7355	19336	TT	CC	1947064357
SNP_P4_191243_19362	NW_004520713.1	Scaffold7355	19362	GG	AA	1947064359
SNP_P4_191244_19388	NW_004520713.1	Scaffold7355	19388	GG	AA	1947064361
SNP_P4_191245_19392	NW_004520713.1	Scaffold7355	19392	CC	TT	1947064363
SNP_P4_191246_19425	NW_004520713.1	Scaffold7355	19425	CC	GG	1947064365
SNP_P4_191247_19882	NW_004520713.1	Scaffold7355	19882	TT	CC	1947064367
SNP_P4_191248_20090	NW_004520713.1	Scaffold7355	20090	TT	AA	1947064368
SNP_P4_191249_21052	NW_004520713.1	Scaffold7355	21052	TT	AA	1947064370
SNP_P4_191250_21105	NW_004520713.1	Scaffold7355	21105	TT	CC	1947064372
SNP_P4_191251_21694	NW_004520713.1	Scaffold7355	21694	AA	GG	1947064374
SNP_P4_191252_21998	NW_004520713.1	Scaffold7355	21998	GG	AA	1947064376
SNP_P4_191253_22003	NW_004520713.1	Scaffold7355	22003	GG	TT	1947064378
SNP_P4_191254_22316	NW_004520713.1	Scaffold7355	22316	TT	AA	1947064380
SNP_P4_191255_22940	NW_004520713.1	Scaffold7355	22940	TT	CC	1947064382
SNP_P4_191256_23218	NW_004520713.1	Scaffold7355	23218	GG	AA	1947064384
SNP_P4_191257_23220	NW_004520713.1	Scaffold7355	23220	GG	AA	1947064386
SNP_P4_191258_23349	NW_004520713.1	Scaffold7355	23349	TT	AA	1947064388
SNP_P4_191259_23368	NW_004520713.1	Scaffold7355	23368	AA	TT	1947064390
SNP_P4_191260_23413	NW_004520713.1	Scaffold7355	23413	CC	AA	1947064392
SNP_P4_191261_23606	NW_004520713.1	Scaffold7355	23606	AA	CC	1947064394
SNP_P4_191262_23636	NW_004520713.1	Scaffold7355	23636	AA	GG	1947064396
SNP_P4_191263_23683	NW_004520713.1	Scaffold7355	23683	CC	GG	1947064397

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SNP_P4_191265_23967	NW_004520713.1	Scaffold7355	23967	CC	TT	1947064401
SNP_P4_191266_2109	NW_004520716.1	Scaffold7364	2109	CC	AA	1947064403
SNP_P4_191268_2849	NW_004520716.1	Scaffold7364	2849	AA	CC	1947064405
SNP_P4_191269_2976	NW_004520716.1	Scaffold7364	2976	CC	TT	1947064407
SNP_P4_191270_4232	NW_004520716.1	Scaffold7364	4232	TT	AA	1947064409
SNP_P4_191271_4361	NW_004520716.1	Scaffold7364	4361	TT	CC	1947064411
SNP_P4_191273_3808	NW_004520722.1	Scaffold7371	3808	GG	AA	1947064413
SNP_P4_191274_40	NW_004520726.1	Scaffold7377	40	AA	GG	1947064415
SNP_P4_191275_53	NW_004520726.1	Scaffold7377	53	CC	TT	1947064417
SNP_P4_191276_64	NW_004520726.1	Scaffold7377	64	AA	GG	1947064419
SNP_P4_191277_81	NW_004520726.1	Scaffold7377	81	TT	AA	1947064421
SNP_P4_191278_92	NW_004520726.1	Scaffold7377	92	AA	GG	1947064423
SNP_P4_191279_110	NW_004520726.1	Scaffold7377	110	TT	AA	1947064425
SNP_P4_191280_234	NW_004520726.1	Scaffold7377	234	AA	GG	1947064427
SNP_P4_191281_411	NW_004520726.1	Scaffold7377	411	TT	GG	1947064429
SNP_P4_191283_550	NW_004520726.1	Scaffold7377	550	GG	CC	1947064431
SNP_P4_191284_637	NW_004520726.1	Scaffold7377	637	GG	AA	1947064433
SNP_P4_191285_667	NW_004520726.1	Scaffold7377	667	TT	AA	1947064435
SNP_P4_191286_775	NW_004520726.1	Scaffold7377	775	CC	TT	1947064437
SNP_P4_191287_196	NW_004520728.1	Scaffold7379	196	AA	CC	1947064439
SNP_P4_191288_532	NW_004520728.1	Scaffold7379	532	TT	AA	1947064441
SNP_P4_191290_861	NW_004520732.1	Scaffold7386	861	TT	CC	1947064443
SNP_P4_191291_771	NW_004520733.1	Scaffold7389	771	GG	CC	1947064445
SNP_P4_191292_1267	NW_004520733.1	Scaffold7389	1267	AA	TT	1947064448
SNP_P4_191293_543	NW_004520738.1	Scaffold7398	543	CC	TT	1947064450
SNP_P4_191294_587	NW_004520738.1	Scaffold7398	587	AA	TT	1947064452
SNP_P4_191295_456	NW_004520740.1	Scaffold7405	456	AA	GG	1947064454
SNP_P4_191296_648	NW_004520745.1	Scaffold7412	648	CC	TT	1947064456
SNP_P4_191297_1686	NW_004520746.1	Scaffold7414	1686	CC	GG	1947064457
SNP_P4_191298_4097	NW_004520746.1	Scaffold7414	4097	CC	TT	1947064459
SNP_P4_191299_4102	NW_004520746.1	Scaffold7414	4102	CC	AA	1947064461
SNP_P4_191300_4304	NW_004520746.1	Scaffold7414	4304	CC	AA	1947064463
SNP_P4_191301_1291	NW_004520749.1	Scaffold7421	1291	AA	GG	1947064465
SNP_P4_191302_1297	NW_004520749.1	Scaffold7421	1297	GG	AA	1947064467
SNP_P4_191303_1863	NW_004520753.1	Scaffold7427	1863	AA	TT	1947064469
SNP_P4_191304_5446	NW_004520753.1	Scaffold7427	5446	CC	TT	1947064471
SNP_P4_191305_7567	NW_004520753.1	Scaffold7427	7567	CC	TT	1947064473
SNP_P4_191306_7703	NW_004520753.1	Scaffold7427	7703	GG	CC	1947064475
SNP_P4_191307_7944	NW_004520753.1	Scaffold7427	7944	GG	TT	1947064477
SNP_P4_191308_9558	NW_004520753.1	Scaffold7427	9558	GG	AA	1947064480
SNP_P4_191309_9563	NW_004520753.1	Scaffold7427	9563	GG	AA	1947064482

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_191311_307	NW_004520762.1	Scaffold7448	307	CC	TT	1947064486
SNP_P4_191312_448	NW_004520762.1	Scaffold7448	448	TT	CC	1947064488
SNP_P4_191313_737	NW_004520762.1	Scaffold7448	737	AA	GG	1947064490
SNP_P4_191314_770	NW_004520762.1	Scaffold7448	770	GG	TT	1947064492
SNP_P4_191315_994	NW_004520762.1	Scaffold7448	994	TT	CC	1947064494
SNP_P4_191316_13525	NW_004520762.1	Scaffold7448	13525	TT	CC	1947064496
SNP_P4_191317_13534	NW_004520762.1	Scaffold7448	13534	GG	TT	1947064498
SNP_P4_191318_13536	NW_004520762.1	Scaffold7448	13536	GG	AA	1947064500
SNP_P4_191319_13542	NW_004520762.1	Scaffold7448	13542	GG	AA	1947064502
SNP_P4_191321_13567	NW_004520762.1	Scaffold7448	13567	CC	TT	1947064504
SNP_P4_191322_13990	NW_004520762.1	Scaffold7448	13990	AA	GG	1947064506
SNP_P4_191323_14045	NW_004520762.1	Scaffold7448	14045	AA	CC	1947064508
SNP_P4_191324_14127	NW_004520762.1	Scaffold7448	14127	TT	AA	1947064510
SNP_P4_191325_14245	NW_004520762.1	Scaffold7448	14245	CC	TT	1947064512
SNP_P4_191326_14258	NW_004520762.1	Scaffold7448	14258	CC	AA	1947064514
SNP_P4_191327_14282	NW_004520762.1	Scaffold7448	14282	AA	TT	1947064516
SNP_P4_191328_16690	NW_004520762.1	Scaffold7448	16690	CC	TT	1947064518
SNP_P4_191329_17066	NW_004520762.1	Scaffold7448	17066	AA	TT	1947064520
SNP_P4_191330_20420	NW_004520762.1	Scaffold7448	20420	GG	AA	1947064522
SNP_P4_191331_20572	NW_004520762.1	Scaffold7448	20572	GG	TT	1947064524
SNP_P4_191332_20671	NW_004520762.1	Scaffold7448	20671	AA	GG	1947064526
SNP_P4_191333_20701	NW_004520762.1	Scaffold7448	20701	TT	GG	1947064528
SNP_P4_191334_20722	NW_004520762.1	Scaffold7448	20722	GG	AA	1947064530
SNP_P4_191335_20733	NW_004520762.1	Scaffold7448	20733	TT	CC	1947064532
SNP_P4_191336_20769	NW_004520762.1	Scaffold7448	20769	TT	AA	1947064534
SNP_P4_191337_20830	NW_004520762.1	Scaffold7448	20830	TT	CC	1947064536
SNP_P4_191338_20857	NW_004520762.1	Scaffold7448	20857	CC	GG	1947064538
SNP_P4_191339_20859	NW_004520762.1	Scaffold7448	20859	GG	AA	1947064540
SNP_P4_191340_21156	NW_004520762.1	Scaffold7448	21156	GG	AA	1947064542
SNP_P4_191341_21242	NW_004520762.1	Scaffold7448	21242	AA	TT	1947064544
SNP_P4_191342_21272	NW_004520762.1	Scaffold7448	21272	TT	AA	1947064546
SNP_P4_191343_21307	NW_004520762.1	Scaffold7448	21307	GG	CC	1947064548
SNP_P4_191345_21543	NW_004520762.1	Scaffold7448	21543	CC	TT	1947064550
SNP_P4_191346_21681	NW_004520762.1	Scaffold7448	21681	GG	AA	1947064552
SNP_P4_191347_21745	NW_004520762.1	Scaffold7448	21745	CC	TT	1947064554
SNP_P4_191348_21880	NW_004520762.1	Scaffold7448	21880	AA	TT	1947064556
SNP_P4_191349_22261	NW_004520762.1	Scaffold7448	22261	GG	AA	1947064558
SNP_P4_191350_22452	NW_004520762.1	Scaffold7448	22452	CC	TT	1947064560
SNP_P4_191351_23260	NW_004520762.1	Scaffold7448	23260	AA	CC	1947064567
SNP_P4_191352_23293	NW_004520762.1	Scaffold7448	23293	TT	CC	1947064569
SNP_P4_191353_23405	NW_004520762.1	Scaffold7448	23405	AA	TT	1947064571

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_191354_23469	NW_004520762.1	Scaffold7448	23469	AA	CC	1947064573
SNP_P4_191355_23573	NW_004520762.1	Scaffold7448	23573	CC	TT	1947064575
SNP_P4_191356_255	NW_004520765.1	Scaffold7452	255	CC	TT	1947064576
SNP_P4_191357_276	NW_004520765.1	Scaffold7452	276	CC	AA	1947064578
SNP_P4_191358_618	NW_004520765.1	Scaffold7452	618	GG	AA	1947064580
SNP_P4_191359_622	NW_004520765.1	Scaffold7452	622	TT	CC	1947064582
SNP_P4_191360_2605	NW_004520765.1	Scaffold7452	2605	AA	GG	1947064584
SNP_P4_191361_2886	NW_004520765.1	Scaffold7452	2886	AA	TT	1947064586
SNP_P4_191362_2906	NW_004520765.1	Scaffold7452	2906	GG	CC	1947064588
SNP_P4_191363_2942	NW_004520765.1	Scaffold7452	2942	AA	TT	1947064590
SNP_P4_191364_3479	NW_004520765.1	Scaffold7452	3479	TT	GG	1947064592
SNP_P4_191365_3483	NW_004520765.1	Scaffold7452	3483	AA	TT	1947064594
SNP_P4_191366_3542	NW_004520765.1	Scaffold7452	3542	AA	TT	1947064596
SNP_P4_191367_3547	NW_004520765.1	Scaffold7452	3547	AA	CC	1947064598
SNP_P4_191368_3744	NW_004520765.1	Scaffold7452	3744	TT	CC	1947064600
SNP_P4_191369_3745	NW_004520765.1	Scaffold7452	3745	AA	CC	1947064602
SNP_P4_191370_4028	NW_004520765.1	Scaffold7452	4028	GG	AA	1947064604
SNP_P4_191371_620	NW_004520770.1	Scaffold7460	620	AA	GG	1947064606
SNP_P4_191372_626	NW_004520770.1	Scaffold7460	626	TT	CC	1947064608
SNP_P4_191373_629	NW_004520770.1	Scaffold7460	629	AA	CC	1947064610
SNP_P4_191374_707	NW_004520770.1	Scaffold7460	707	CC	TT	1947064611
SNP_P4_191375_1000	NW_004520776.1	Scaffold7470	1000	GG	AA	1947064613
SNP_P4_191376_1141	NW_004520776.1	Scaffold7470	1141	AA	TT	1947064615
SNP_P4_191377_1235	NW_004520776.1	Scaffold7470	1235	CC	AA	1947064617
SNP_P4_191378_1262	NW_004520776.1	Scaffold7470	1262	AA	GG	1947064619
SNP_P4_191379_1328	NW_004520776.1	Scaffold7470	1328	AA	GG	1947064621
SNP_P4_191380_1643	NW_004520776.1	Scaffold7470	1643	GG	TT	1947064623
SNP_P4_191381_1845	NW_004520776.1	Scaffold7470	1845	AA	TT	1947064625
SNP_P4_191382_1920	NW_004520776.1	Scaffold7470	1920	AA	TT	1947064627
SNP_P4_191383_1922	NW_004520776.1	Scaffold7470	1922	TT	CC	1947064629
SNP_P4_191384_2022	NW_004520776.1	Scaffold7470	2022	TT	CC	1947064631
SNP_P4_191385_2121	NW_004520776.1	Scaffold7470	2121	GG	CC	1947064633
SNP_P4_191386_2342	NW_004520776.1	Scaffold7470	2342	CC	AA	1947064635
SNP_P4_191388_2435	NW_004520776.1	Scaffold7470	2435	CC	GG	1947064637
SNP_P4_191389_2474	NW_004520776.1	Scaffold7470	2474	GG	CC	1947064639
SNP_P4_191390_2479	NW_004520776.1	Scaffold7470	2479	GG	CC	1947064641
SNP_P4_191391_2713	NW_004520776.1	Scaffold7470	2713	TT	AA	1947064644
SNP_P4_191392_342	NW_004520778.1	Scaffold7473	342	TT	CC	1947064651
SNP_P4_191393_368	NW_004520778.1	Scaffold7473	368	TT	GG	1947064655
SNP_P4_191394_857	NW_004520779.1	Scaffold7474	857	TT	CC	1947064657
SNP_P4_191396_5630	NW_004520780.1	Scaffold7475	5630	AA	GG	1947064659
SNP_P4_191397_973	NW_004520781.1	Scaffold7477	973	CC	TT	1947064661

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_191399_1350	NW_004520781.1	Scaffold7477	1350	AA	GG	1947064664
SNP_P4_191400_2062	NW_004520781.1	Scaffold7477	2062	TT	CC	1947064666
SNP_P4_191401_2151	NW_004520781.1	Scaffold7477	2151	CC	AA	1947064668
SNP_P4_191403_2402	NW_004520781.1	Scaffold7477	2402	TT	CC	1947064670
SNP_P4_191404_6372	NW_004520781.1	Scaffold7477	6372	AA	GG	1947064672
SNP_P4_191405_6406	NW_004520781.1	Scaffold7477	6406	AA	TT	1947064674
SNP_P4_191406_6485	NW_004520781.1	Scaffold7477	6485	GG	AA	1947064676
SNP_P4_191409_6912	NW_004520781.1	Scaffold7477	6912	TT	CC	1947064678
SNP_P4_191410_20705	NW_004520781.1	Scaffold7477	20705	TT	CC	1947064680
SNP_P4_191411_20981	NW_004520781.1	Scaffold7477	20981	TT	GG	1947064682
SNP_P4_191412_20987	NW_004520781.1	Scaffold7477	20987	GG	AA	1947064683
SNP_P4_191413_20988	NW_004520781.1	Scaffold7477	20988	TT	GG	1947064685
SNP_P4_191414_21008	NW_004520781.1	Scaffold7477	21008	GG	AA	1947064687
SNP_P4_191415_21032	NW_004520781.1	Scaffold7477	21032	AA	GG	1947064689
SNP_P4_191416_21044	NW_004520781.1	Scaffold7477	21044	AA	GG	1947064691
SNP_P4_191418_499	NW_004520785.1	Scaffold7481	499	GG	TT	1947064693
SNP_P4_191419_514	NW_004520785.1	Scaffold7481	514	CC	AA	1947064695
SNP_P4_191420_538	NW_004520785.1	Scaffold7481	538	CC	GG	1947064697
SNP_P4_191421_504	NW_004520788.1	Scaffold7484	504	CC	TT	1947064699
SNP_P4_191422_19257	NW_004520788.1	Scaffold7484	19257	AA	CC	1947064701
SNP_P4_191423_19688	NW_004520788.1	Scaffold7484	19688	CC	TT	1947064703
SNP_P4_191424_19713	NW_004520788.1	Scaffold7484	19713	TT	AA	1947064705
SNP_P4_191425_19727	NW_004520788.1	Scaffold7484	19727	TT	CC	1947064707
SNP_P4_191426_19883	NW_004520788.1	Scaffold7484	19883	CC	AA	1947064709
SNP_P4_191427_20012	NW_004520788.1	Scaffold7484	20012	GG	AA	1947064711
SNP_P4_191428_20276	NW_004520788.1	Scaffold7484	20276	CC	TT	1947064713
SNP_P4_191429_20281	NW_004520788.1	Scaffold7484	20281	TT	AA	1947064715
SNP_P4_191430_20298	NW_004520788.1	Scaffold7484	20298	GG	TT	1947064717
SNP_P4_191432_679	NW_004520791.1	Scaffold7489	679	TT	CC	1947064718
SNP_P4_191433_697	NW_004520791.1	Scaffold7489	697	AA	GG	1947064720
SNP_P4_191434_741	NW_004520791.1	Scaffold7489	741	CC	TT	1947064722
SNP_P4_191435_752	NW_004520791.1	Scaffold7489	752	TT	CC	1947064724
SNP_P4_191437_860	NW_004520791.1	Scaffold7489	860	CC	AA	1947064726
SNP_P4_191438_871	NW_004520791.1	Scaffold7489	871	GG	TT	1947064728
SNP_P4_191439_882	NW_004520791.1	Scaffold7489	882	CC	TT	1947064730
SNP_P4_191440_889	NW_004520791.1	Scaffold7489	889	TT	CC	1947064732
SNP_P4_191441_932	NW_004520791.1	Scaffold7489	932	CC	TT	1947064734
SNP_P4_191442_936	NW_004520791.1	Scaffold7489	936	AA	GG	1947064736
SNP_P4_191443_1005	NW_004520791.1	Scaffold7489	1005	AA	GG	1947064738
SNP_P4_191444_1018	NW_004520791.1	Scaffold7489	1018	CC	AA	1947064741
SNP_P4_191445_1079	NW_004520791.1	Scaffold7489	1079	TT	AA	1947064743

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_191447_1217	NW_004520791.1	Scaffold7489	1217	GG	AA	1947064748
SNP_P4_191448_1270	NW_004520791.1	Scaffold7489	1270	GG	AA	1947064750
SNP_P4_191449_1274	NW_004520791.1	Scaffold7489	1274	AA	GG	1947064752
SNP_P4_191450_1361	NW_004520791.1	Scaffold7489	1361	TT	GG	1947064754
SNP_P4_191451_1399	NW_004520791.1	Scaffold7489	1399	GG	AA	1947064756
SNP_P4_191452_1417	NW_004520791.1	Scaffold7489	1417	TT	GG	1947064758
SNP_P4_191453_1448	NW_004520791.1	Scaffold7489	1448	CC	TT	1947064760
SNP_P4_191454_1457	NW_004520791.1	Scaffold7489	1457	CC	GG	1947064762
SNP_P4_191455_1559	NW_004520791.1	Scaffold7489	1559	CC	AA	1947064765
SNP_P4_191456_1602	NW_004520791.1	Scaffold7489	1602	AA	GG	1947064767
SNP_P4_191457_1619	NW_004520791.1	Scaffold7489	1619	AA	TT	1947064769
SNP_P4_191458_1696	NW_004520791.1	Scaffold7489	1696	CC	TT	1947064771
SNP_P4_191459_1758	NW_004520791.1	Scaffold7489	1758	CC	GG	1947064773
SNP_P4_191460_1765	NW_004520791.1	Scaffold7489	1765	TT	AA	1947064775
SNP_P4_191461_1773	NW_004520791.1	Scaffold7489	1773	AA	GG	1947064777
SNP_P4_191462_1788	NW_004520791.1	Scaffold7489	1788	GG	AA	1947064779
SNP_P4_191463_805	NW_004520792.1	Scaffold7490	805	TT	CC	1947064781
SNP_P4_191464_933	NW_004520792.1	Scaffold7490	933	TT	AA	1947064783
SNP_P4_191467_630	NW_004520796.1	Scaffold7502	630	CC	GG	1947064785
SNP_P4_191468_635	NW_004520796.1	Scaffold7502	635	TT	AA	1947064787
SNP_P4_191469_654	NW_004520796.1	Scaffold7502	654	TT	CC	1947064789
SNP_P4_191470_677	NW_004520796.1	Scaffold7502	677	TT	AA	1947064791
SNP_P4_191471_735	NW_004520796.1	Scaffold7502	735	CC	TT	1947064793
SNP_P4_191472_864	NW_004520796.1	Scaffold7502	864	CC	AA	1947064795
SNP_P4_191473_869	NW_004520796.1	Scaffold7502	869	TT	CC	1947064797
SNP_P4_191474_888	NW_004520796.1	Scaffold7502	888	GG	CC	1947064799
SNP_P4_191475_906	NW_004520796.1	Scaffold7502	906	AA	TT	1947064801
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SNP_P4_191477_1068	NW_004520796.1	Scaffold7502	1068	AA	CC	1947064805
SNP_P4_191478_1123	NW_004520796.1	Scaffold7502	1123	TT	CC	1947064807
SNP_P4_191479_82	NW_004520800.1	Scaffold7507	82	AA	GG	1947064809
SNP_P4_191480_2490	NW_004520802.1	Scaffold7509	2490	GG	AA	1947064811
SNP_P4_191481_63	NW_004520803.1	Scaffold7511	63	GG	CC	1947064813
SNP_P4_191482_64	NW_004520803.1	Scaffold7511	64	GG	CC	1947064815
SNP_P4_191483_72	NW_004520803.1	Scaffold7511	72	AA	GG	1947064817
SNP_P4_191484_119	NW_004520803.1	Scaffold7511	119	TT	CC	1947064819
SNP_P4_191485_154	NW_004520803.1	Scaffold7511	154	GG	AA	1947064821
SNP_P4_191486_433	NW_004520803.1	Scaffold7511	433	TT	GG	1947064823
SNP_P4_191487_451	NW_004520803.1	Scaffold7511	451	GG	AA	1947064825
SNP_P4_191488_842	NW_004520803.1	Scaffold7511	842	CC	TT	1947064827
SNP_P4_191489_1106	NW_004520803.1	Scaffold7511	1106	TT	CC	1947064829

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_191490_351	NW_004520812.1	Scaffold7528	351	GG	TT	1947064831
SNP_P4_191491_752	NW_004520812.1	Scaffold7528	752	AA	GG	1947064833
SNP_P4_191492_806	NW_004520812.1	Scaffold7528	806	TT	AA	1947064835
SNP_P4_191493_1616	NW_004520812.1	Scaffold7528	1616	CC	GG	1947064837
SNP_P4_191494_1686	NW_004520812.1	Scaffold7528	1686	AA	TT	1947064839
SNP_P4_191495_7495	NW_004520812.1	Scaffold7528	7495	TT	CC	1947064841
SNP_P4_191496_7548	NW_004520812.1	Scaffold7528	7548	AA	GG	1947064843
SNP_P4_191497_7592	NW_004520812.1	Scaffold7528	7592	AA	GG	1947064845
SNP_P4_191498_7615	NW_004520812.1	Scaffold7528	7615	CC	TT	1947064847
SNP_P4_191499_7737	NW_004520812.1	Scaffold7528	7737	AA	TT	1947064849
SNP_P4_191500_7802	NW_004520812.1	Scaffold7528	7802	GG	AA	1947064851
SNP_P4_191501_7872	NW_004520812.1	Scaffold7528	7872	AA	CC	1947064853
SNP_P4_191502_7881	NW_004520812.1	Scaffold7528	7881	TT	AA	1947064855
SNP_P4_191503_8268	NW_004520812.1	Scaffold7528	8268	GG	TT	1947064857
SNP_P4_191504_8853	NW_004520812.1	Scaffold7528	8853	CC	TT	1947064859
SNP_P4_191505_8864	NW_004520812.1	Scaffold7528	8864	TT	GG	1947064861
SNP_P4_191506_9025	NW_004520812.1	Scaffold7528	9025	TT	GG	1947064863
SNP_P4_191507_9036	NW_004520812.1	Scaffold7528	9036	AA	CC	1947064865
SNP_P4_191508_9104	NW_004520812.1	Scaffold7528	9104	GG	AA	1947064867
SNP_P4_191509_9136	NW_004520812.1	Scaffold7528	9136	GG	AA	1947064869
SNP_P4_191510_9325	NW_004520812.1	Scaffold7528	9325	TT	GG	1947064871
SNP_P4_191511_9495	NW_004520812.1	Scaffold7528	9495	TT	CC	1947064873
SNP_P4_191512_9525	NW_004520812.1	Scaffold7528	9525	TT	GG	1947064875
SNP_P4_191513_9597	NW_004520812.1	Scaffold7528	9597	AA	TT	1947064877
SNP_P4_191514_10734	NW_004520812.1	Scaffold7528	10734	GG	AA	1947064941
SNP_P4_191515_10743	NW_004520812.1	Scaffold7528	10743	AA	GG	1947064943
SNP_P4_191516_11020	NW_004520812.1	Scaffold7528	11020	TT	AA	1947064945
SNP_P4_191518_11117	NW_004520812.1	Scaffold7528	11117	TT	CC	1947064947
SNP_P4_191519_11372	NW_004520812.1	Scaffold7528	11372	CC	TT	1947064949
SNP_P4_191520_14088	NW_004520812.1	Scaffold7528	14088	CC	GG	1947064951
SNP_P4_191521_14144	NW_004520812.1	Scaffold7528	14144	CC	TT	1947064953
SNP_P4_191522_14470	NW_004520812.1	Scaffold7528	14470	TT	CC	1947064955
SNP_P4_191523_14575	NW_004520812.1	Scaffold7528	14575	AA	GG	1947064957
SNP_P4_191524_14816	NW_004520812.1	Scaffold7528	14816	GG	CC	1947064959
SNP_P4_191525_14985	NW_004520812.1	Scaffold7528	14985	AA	CC	1947064961
SNP_P4_191526_15023	NW_004520812.1	Scaffold7528	15023	TT	CC	1947064963
SNP_P4_191528_15425	NW_004520812.1	Scaffold7528	15425	TT	GG	1947064965
SNP_P4_191529_792	NW_004520813.1	Scaffold7529	792	TT	GG	1947064967
SNP_P4_191530_1041	NW_004520813.1	Scaffold7529	1041	GG	CC	1947064969
SNP_P4_191531_431	NW_004520817.1	Scaffold7540	431	TT	AA	1947064971
SNP_P4_191532_1226	NW_004520817.1	Scaffold7540	1226	TT	AA	1947064973
SNP_P4_191533_1529	NW_004520817.1	Scaffold7540	1529	AA	TT	1947064975

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_191534_1544	NW_004520817.1	Scaffold7540	1544	AA	GG	1947064977
SNP_P4_191535_439	NW_004520822.1	Scaffold7546	439	AA	GG	1947064979
SNP_P4_191536_478	NW_004520822.1	Scaffold7546	478	TT	AA	1947064981
SNP_P4_191537_495	NW_004520822.1	Scaffold7546	495	AA	CC	1947064983
SNP_P4_191538_503	NW_004520822.1	Scaffold7546	503	AA	TT	1947064985
SNP_P4_191539_504	NW_004520822.1	Scaffold7546	504	TT	GG	1947064987
SNP_P4_191541_1395	NW_004520822.1	Scaffold7546	1395	CC	AA	1947064989
SNP_P4_191542_1420	NW_004520822.1	Scaffold7546	1420	CC	GG	1947064991
SNP_P4_191543_477	NW_004520824.1	Scaffold7551	477	CC	TT	1947064993
SNP_P4_191544_545	NW_004520824.1	Scaffold7551	545	GG	AA	1947064995
SNP_P4_191545_553	NW_004520824.1	Scaffold7551	553	AA	GG	1947064997
SNP_P4_191546_713	NW_004520824.1	Scaffold7551	713	TT	CC	1947064999
SNP_P4_191547_748	NW_004520824.1	Scaffold7551	748	TT	GG	1947065001
SNP_P4_191548_761	NW_004520824.1	Scaffold7551	761	GG	AA	1947065003
SNP_P4_191549_1899	NW_004520832.1	Scaffold7564	1899	AA	GG	1947065005
SNP_P4_191550_1925	NW_004520832.1	Scaffold7564	1925	AA	CC	1947065007
SNP_P4_191551_1987	NW_004520832.1	Scaffold7564	1987	CC	TT	1947065009
SNP_P4_191552_2000	NW_004520832.1	Scaffold7564	2000	CC	TT	1947065011
SNP_P4_191553_2059	NW_004520832.1	Scaffold7564	2059	AA	TT	1947065013
SNP_P4_191554_2083	NW_004520832.1	Scaffold7564	2083	CC	AA	1947065015
SNP_P4_191555_2152	NW_004520832.1	Scaffold7564	2152	AA	CC	1947065017
SNP_P4_191556_2161	NW_004520832.1	Scaffold7564	2161	TT	GG	1947065019
SNP_P4_191557_2322	NW_004520832.1	Scaffold7564	2322	AA	TT	1947065021
SNP_P4_191558_450	NW_004520833.1	Scaffold7565	450	TT	CC	1947065023
SNP_P4_191559_614	NW_004520833.1	Scaffold7565	614	GG	TT	1947065025
SNP_P4_191560_646	NW_004520833.1	Scaffold7565	646	CC	TT	1947065027
SNP_P4_191561_668	NW_004520833.1	Scaffold7565	668	CC	TT	1947065029
SNP_P4_191562_707	NW_004520833.1	Scaffold7565	707	GG	CC	1947065031
SNP_P4_191563_1071	NW_004520833.1	Scaffold7565	1071	TT	GG	1947065034
SNP_P4_191564_1080	NW_004520833.1	Scaffold7565	1080	AA	GG	1947065036
SNP_P4_191565_1161	NW_004520833.1	Scaffold7565	1161	TT	AA	1947065038
SNP_P4_191566_1922	NW_004520833.1	Scaffold7565	1922	CC	GG	1947065040
SNP_P4_191567_1957	NW_004520833.1	Scaffold7565	1957	AA	CC	1947065042
SNP_P4_191568_2359	NW_004520833.1	Scaffold7565	2359	AA	GG	1947065044
SNP_P4_191569_2589	NW_004520833.1	Scaffold7565	2589	TT	AA	1947065046
SNP_P4_191570_2700	NW_004520833.1	Scaffold7565	2700	CC	TT	1947065048
SNP_P4_191571_2790	NW_004520833.1	Scaffold7565	2790	CC	AA	1947065050
SNP_P4_191572_2906	NW_004520833.1	Scaffold7565	2906	GG	TT	1947065052
SNP_P4_191573_3098	NW_004520833.1	Scaffold7565	3098	GG	AA	1947065054
SNP_P4_191575_3203	NW_004520833.1	Scaffold7565	3203	AA	TT	1947065056
SNP_P4_191576_4332	NW_004520833.1	Scaffold7565	4332	AA	CC	1947065058
SNP_P4_191577_4348	NW_004520833.1	Scaffold7565	4348	AA	TT	1947065060

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_191578_4351	NW_004520833.1	Scaffold7565	4351	AA	GG	1947065062
SNP_P4_191579_4362	NW_004520833.1	Scaffold7565	4362	CC	TT	1947065064
SNP_P4_191580_4363	NW_004520833.1	Scaffold7565	4363	AA	GG	1947065066
SNP_P4_191581_4377	NW_004520833.1	Scaffold7565	4377	CC	TT	1947065069
SNP_P4_191582_4379	NW_004520833.1	Scaffold7565	4379	AA	GG	1947065071
SNP_P4_191583_4382	NW_004520833.1	Scaffold7565	4382	CC	AA	1947065073
SNP_P4_191584_4392	NW_004520833.1	Scaffold7565	4392	AA	CC	1947065075
SNP_P4_191585_4412	NW_004520833.1	Scaffold7565	4412	AA	CC	1947065076
SNP_P4_191586_4736	NW_004520833.1	Scaffold7565	4736	TT	CC	1947065078
SNP_P4_191587_4788	NW_004520833.1	Scaffold7565	4788	AA	GG	1947065080
SNP_P4_191588_4814	NW_004520833.1	Scaffold7565	4814	TT	CC	1947065082
SNP_P4_191589_4854	NW_004520833.1	Scaffold7565	4854	AA	TT	1947065084
SNP_P4_191590_4874	NW_004520833.1	Scaffold7565	4874	GG	AA	1947065086
SNP_P4_191591_4925	NW_004520833.1	Scaffold7565	4925	TT	CC	1947065088
SNP_P4_191592_4969	NW_004520833.1	Scaffold7565	4969	CC	GG	1947065090
SNP_P4_191593_5050	NW_004520833.1	Scaffold7565	5050	GG	AA	1947065092
SNP_P4_191594_5067	NW_004520833.1	Scaffold7565	5067	TT	CC	1947065094
SNP_P4_191595_5068	NW_004520833.1	Scaffold7565	5068	GG	TT	1947065096
SNP_P4_191596_5107	NW_004520833.1	Scaffold7565	5107	GG	AA	1947065098
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SNP_P4_191598_119	NW_004520836.1	Scaffold7569	119	CC	GG	1947065102
SNP_P4_191599_143	NW_004520836.1	Scaffold7569	143	CC	TT	1947065104
SNP_P4_191600_296	NW_004520836.1	Scaffold7569	296	AA	GG	1947065106
SNP_P4_191601_368	NW_004520836.1	Scaffold7569	368	AA	GG	1947065108
SNP_P4_191602_384	NW_004520836.1	Scaffold7569	384	AA	TT	1947065110
SNP_P4_191604_578	NW_004520836.1	Scaffold7569	578	GG	CC	1947065112
SNP_P4_191605_588	NW_004520836.1	Scaffold7569	588	CC	TT	1947065114
SNP_P4_191606_650	NW_004520836.1	Scaffold7569	650	GG	AA	1947065116
SNP_P4_191607_684	NW_004520836.1	Scaffold7569	684	AA	GG	1947065118
SNP_P4_191608_718	NW_004520836.1	Scaffold7569	718	TT	GG	1947065120
SNP_P4_191609_729	NW_004520836.1	Scaffold7569	729	AA	GG	1947065122
SNP_P4_191610_747	NW_004520836.1	Scaffold7569	747	CC	TT	1947065124
SNP_P4_191611_750	NW_004520836.1	Scaffold7569	750	AA	TT	1947065126
SNP_P4_191612_691	NW_004520837.1	Scaffold7571	691	CC	TT	1947065128
SNP_P4_191613_3264	NW_004520841.1	Scaffold7575	3264	AA	GG	1947065130
SNP_P4_191614_325	NW_004520842.1	Scaffold7576	325	TT	CC	1947065132
SNP_P4_191615_359	NW_004520842.1	Scaffold7576	359	GG	AA	1947065134
SNP_P4_191616_406	NW_004520842.1	Scaffold7576	406	GG	AA	1947065136
SNP_P4_191617_514	NW_004520842.1	Scaffold7576	514	AA	TT	1947065138
SNP_P4_191618_580	NW_004520842.1	Scaffold7576	580	AA	TT	1947065140
SNP_P4_191619_599	NW_004520842.1	Scaffold7576	599	TT	CC	1947065142
SNP_P4_191620_608	NW_004520842.1	Scaffold7576	608	AA	GG	1947065144

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_191622_1019	NW_004520842.1	Scaffold7576	1019	CC	TT	1947065148
SNP_P4_191623_434	NW_004520845.1	Scaffold7581	434	AA	CC	1947065150
SNP_P4_191624_59	NW_004520847.1	Scaffold7584	59	TT	CC	1947065152
SNP_P4_191625_87	NW_004520847.1	Scaffold7584	87	TT	CC	1947065154
SNP_P4_191627_132	NW_004520847.1	Scaffold7584	132	AA	TT	1947065156
SNP_P4_191629_353	NW_004520847.1	Scaffold7584	353	CC	AA	1947065158
SNP_P4_191630_413	NW_004520847.1	Scaffold7584	413	AA	TT	1947065160
SNP_P4_191631_426	NW_004520847.1	Scaffold7584	426	CC	AA	1947065162
SNP_P4_191632_591	NW_004520847.1	Scaffold7584	591	GG	TT	1947065164
SNP_P4_191633_596	NW_004520847.1	Scaffold7584	596	CC	GG	1947065166
SNP_P4_191634_764	NW_004520847.1	Scaffold7584	764	AA	TT	1947065168
SNP_P4_191635_779	NW_004520847.1	Scaffold7584	779	TT	CC	1947065170
SNP_P4_191637_1036	NW_004520847.1	Scaffold7584	1036	TT	AA	1947065172
SNP_P4_191638_1042	NW_004520847.1	Scaffold7584	1042	TT	CC	1947065174
SNP_P4_191639_172	NW_004520849.1	Scaffold7590	172	TT	CC	1947065176
SNP_P4_191640_4735	NW_004520849.1	Scaffold7590	4735	GG	TT	1947065178
SNP_P4_191641_4797	NW_004520849.1	Scaffold7590	4797	TT	CC	1947065180
SNP_P4_191642_4875	NW_004520849.1	Scaffold7590	4875	AA	CC	1947065182
SNP_P4_191643_4983	NW_004520849.1	Scaffold7590	4983	CC	TT	1947065184
SNP_P4_191644_4998	NW_004520849.1	Scaffold7590	4998	TT	CC	1947065186
SNP_P4_191645_5000	NW_004520849.1	Scaffold7590	5000	TT	CC	1947065188
SNP_P4_191646_5085	NW_004520849.1	Scaffold7590	5085	AA	GG	1947065190
SNP_P4_191647_5102	NW_004520849.1	Scaffold7590	5102	GG	AA	1947065192
SNP_P4_191648_5168	NW_004520849.1	Scaffold7590	5168	TT	CC	1947065194
SNP_P4_191649_5176	NW_004520849.1	Scaffold7590	5176	GG	AA	1947065196
SNP_P4_191650_5202	NW_004520849.1	Scaffold7590	5202	AA	GG	1947065198
SNP_P4_191651_5229	NW_004520849.1	Scaffold7590	5229	AA	CC	1947065200
SNP_P4_191652_5301	NW_004520849.1	Scaffold7590	5301	AA	GG	1947065202
SNP_P4_191653_5327	NW_004520849.1	Scaffold7590	5327	AA	GG	1947065204
SNP_P4_191654_5339	NW_004520849.1	Scaffold7590	5339	GG	AA	1947065206
SNP_P4_191655_5488	NW_004520849.1	Scaffold7590	5488	GG	AA	1947065207
SNP_P4_191656_5506	NW_004520849.1	Scaffold7590	5506	AA	TT	1947065209
SNP_P4_191657_100	NW_004520853.1	Scaffold7595	100	CC	GG	1947065211
SNP_P4_191658_277	NW_004520853.1	Scaffold7595	277	GG	TT	1947065213
SNP_P4_191659_378	NW_004520853.1	Scaffold7595	378	TT	CC	1947065215
SNP_P4_191660_412	NW_004520853.1	Scaffold7595	412	CC	TT	1947065217
SNP_P4_191661_478	NW_004520853.1	Scaffold7595	478	CC	GG	1947065219
SNP_P4_191662_521	NW_004520853.1	Scaffold7595	521	AA	CC	1947065221
SNP_P4_191663_552	NW_004520853.1	Scaffold7595	552	AA	TT	1947065223
SNP_P4_191665_620	NW_004520853.1	Scaffold7595	620	GG	TT	1947065225
SNP_P4_191666_708	NW_004520853.1	Scaffold7595	708	TT	CC	1947065227

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_191668_1361	NW_004520853.1	Scaffold7595	1361	AA	TT	1947065230
SNP_P4_191669_1101	NW_004520854.1	Scaffold7596	1101	AA	CC	1947065232
SNP_P4_191670_82	NW_004520855.1	Scaffold7599	82	AA	GG	1947065234
SNP_P4_191671_125	NW_004520855.1	Scaffold7599	125	TT	AA	1947065236
SNP_P4_191672_151	NW_004520855.1	Scaffold7599	151	CC	TT	1947065238
SNP_P4_191673_157	NW_004520855.1	Scaffold7599	157	AA	TT	1947065240
SNP_P4_191674_221	NW_004520855.1	Scaffold7599	221	GG	AA	1947065242
SNP_P4_191675_336	NW_004520855.1	Scaffold7599	336	CC	TT	1947065244
SNP_P4_191676_423	NW_004520855.1	Scaffold7599	423	TT	AA	1947065246
SNP_P4_191677_455	NW_004520855.1	Scaffold7599	455	CC	TT	1947065248
SNP_P4_191678_820	NW_004520855.1	Scaffold7599	820	AA	GG	1947065250
SNP_P4_191680_903	NW_004520855.1	Scaffold7599	903	AA	CC	1947065252
SNP_P4_191681_842	NW_004520857.1	Scaffold7601	842	CC	AA	1947065254
SNP_P4_191682_942	NW_004520857.1	Scaffold7601	942	CC	AA	1947065256
SNP_P4_191683_1426	NW_004520859.1	Scaffold7604	1426	AA	TT	1947065258
SNP_P4_191684_158	NW_004520861.1	Scaffold7610	158	GG	TT	1947065260
SNP_P4_191685_1094	NW_004520861.1	Scaffold7610	1094	AA	GG	1947065262
SNP_P4_191686_663	NW_004520864.1	Scaffold7616	663	GG	AA	1947065264
SNP_P4_191687_664	NW_004520864.1	Scaffold7616	664	AA	GG	1947065265
SNP_P4_191688_247	NW_004520865.1	Scaffold7617	247	AA	GG	1947065267
SNP_P4_191689_249	NW_004520865.1	Scaffold7617	249	GG	CC	1947065269
SNP_P4_191690_271	NW_004520865.1	Scaffold7617	271	TT	AA	1947065271
SNP_P4_191691_279	NW_004520865.1	Scaffold7617	279	GG	AA	1947065273
SNP_P4_191692_416	NW_004520865.1	Scaffold7617	416	CC	AA	1947065275
SNP_P4_191693_442	NW_004520865.1	Scaffold7617	442	TT	GG	1947065277
SNP_P4_191694_449	NW_004520865.1	Scaffold7617	449	AA	CC	1947065279
SNP_P4_191695_455	NW_004520865.1	Scaffold7617	455	CC	TT	1947065282
SNP_P4_191696_457	NW_004520865.1	Scaffold7617	457	GG	AA	1947065284
SNP_P4_191697_488	NW_004520865.1	Scaffold7617	488	CC	TT	1947065286
SNP_P4_191698_498	NW_004520865.1	Scaffold7617	498	AA	GG	1947065288
SNP_P4_191699_526	NW_004520865.1	Scaffold7617	526	AA	TT	1947065290
SNP_P4_191700_569	NW_004520865.1	Scaffold7617	569	CC	TT	1947065292
SNP_P4_191702_700	NW_004520865.1	Scaffold7617	700	GG	TT	1947065294
SNP_P4_191703_713	NW_004520865.1	Scaffold7617	713	CC	AA	1947065296
SNP_P4_191704_714	NW_004520865.1	Scaffold7617	714	CC	TT	1947065298
SNP_P4_191705_731	NW_004520865.1	Scaffold7617	731	GG	AA	1947065300
SNP_P4_191706_750	NW_004520865.1	Scaffold7617	750	AA	TT	1947065302
SNP_P4_191707_779	NW_004520865.1	Scaffold7617	779	GG	CC	1947065304
SNP_P4_191708_820	NW_004520865.1	Scaffold7617	820	GG	AA	1947065306
SNP_P4_191709_831	NW_004520865.1	Scaffold7617	831	AA	TT	1947065308
SNP_P4_191710_834	NW_004520865.1	Scaffold7617	834	AA	CC	1947065310

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_191712_917	NW_004520865.1	Scaffold7617	917	GG	CC	1947065314
SNP_P4_191713_918	NW_004520865.1	Scaffold7617	918	TT	GG	1947065316
SNP_P4_191714_943	NW_004520865.1	Scaffold7617	943	AA	CC	1947065318
SNP_P4_191715_953	NW_004520865.1	Scaffold7617	953	CC	AA	1947065320
SNP_P4_191716_965	NW_004520865.1	Scaffold7617	965	GG	TT	1947065322
SNP_P4_191717_975	NW_004520865.1	Scaffold7617	975	GG	CC	1947065324
SNP_P4_191718_1022	NW_004520865.1	Scaffold7617	1022	TT	GG	1947065326
SNP_P4_191719_1024	NW_004520865.1	Scaffold7617	1024	AA	GG	1947065328
SNP_P4_191720_1038	NW_004520865.1	Scaffold7617	1038	AA	TT	1947065329
SNP_P4_191722_1055	NW_004520865.1	Scaffold7617	1055	CC	TT	1947065330
SNP_P4_191723_1072	NW_004520865.1	Scaffold7617	1072	TT	CC	1947065331
SNP_P4_191724_1239	NW_004520865.1	Scaffold7617	1239	TT	AA	1947065332
SNP_P4_191725_1260	NW_004520865.1	Scaffold7617	1260	TT	AA	1947065333
SNP_P4_191726_1324	NW_004520865.1	Scaffold7617	1324	GG	AA	1947065334
SNP_P4_191727_1345	NW_004520865.1	Scaffold7617	1345	AA	GG	1947065335
SNP_P4_191728_964	NW_004520866.1	Scaffold7621	964	AA	TT	1947065336
SNP_P4_191729_1224	NW_004520866.1	Scaffold7621	1224	GG	AA	1947065337
SNP_P4_191730_1389	NW_004520866.1	Scaffold7621	1389	TT	CC	1947065338
SNP_P4_191731_1713	NW_004520866.1	Scaffold7621	1713	CC	GG	1947065339
SNP_P4_191732_1828	NW_004520866.1	Scaffold7621	1828	CC	TT	1947065340
SNP_P4_191733_1876	NW_004520866.1	Scaffold7621	1876	GG	AA	1947065341
SNP_P4_191734_2281	NW_004520866.1	Scaffold7621	2281	TT	GG	1947065342
SNP_P4_191735_55	NW_004520868.1	Scaffold7624	55	GG	TT	1947065343
SNP_P4_191737_64	NW_004520868.1	Scaffold7624	64	TT	AA	1947065344
SNP_P4_191738_98	NW_004520868.1	Scaffold7624	98	TT	GG	1947065345
SNP_P4_191739_2479	NW_004520879.1	Scaffold7650	2479	GG	CC	1947065346
SNP_P4_191740_4665	NW_004520879.1	Scaffold7650	4665	GG	AA	1947065347
SNP_P4_191741_9099	NW_004520879.1	Scaffold7650	9099	TT	GG	1947065348
SNP_P4_191743_9781	NW_004520879.1	Scaffold7650	9781	GG	AA	1947065349
SNP_P4_191745_10148	NW_004520879.1	Scaffold7650	10148	GG	TT	1947065350
SNP_P4_191746_10248	NW_004520879.1	Scaffold7650	10248	CC	AA	1947065351
SNP_P4_191747_10256	NW_004520879.1	Scaffold7650	10256	CC	TT	1947065352
SNP_P4_191748_10434	NW_004520879.1	Scaffold7650	10434	TT	GG	1947065353
SNP_P4_191749_200	NW_004520881.1	Scaffold7652	200	TT	AA	1947065354
SNP_P4_191750_647	NW_004520885.1	Scaffold7657	647	AA	GG	1947065355
SNP_P4_191751_651	NW_004520885.1	Scaffold7657	651	AA	TT	1947065356
SNP_P4_191753_781	NW_004520885.1	Scaffold7657	781	TT	AA	1947065357
SNP_P4_191754_802	NW_004520885.1	Scaffold7657	802	GG	AA	1947065358
SNP_P4_191755_854	NW_004520885.1	Scaffold7657	854	AA	GG	1947065359
SNP_P4_191756_901	NW_004520885.1	Scaffold7657	901	AA	GG	1947065360
SNP_P4_191757_174	NW_004520886.1	Scaffold7660	174	CC	AA	1947065361

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_191758_398	NW_004520886.1	Scaffold7660	398	CC	AA	1947065362
SNP_P4_191759_411	NW_004520886.1	Scaffold7660	411	TT	GG	1947065363
SNP_P4_191760_570	NW_004520887.1	Scaffold7661	570	TT	AA	1947065364
SNP_P4_191761_665	NW_004520887.1	Scaffold7661	665	AA	TT	1947065365
SNP_P4_191762_697	NW_004520887.1	Scaffold7661	697	CC	TT	1947065366
SNP_P4_191763_834	NW_004520887.1	Scaffold7661	834	CC	AA	1947065367
SNP_P4_191765_336	NW_004520888.1	Scaffold7663	336	AA	CC	1947065368
SNP_P4_191766_356	NW_004520888.1	Scaffold7663	356	GG	TT	1947065369
SNP_P4_191767_408	NW_004520888.1	Scaffold7663	408	GG	AA	1947065370
SNP_P4_191769_2653	NW_004520896.1	Scaffold7679	2653	GG	CC	1947065371
SNP_P4_191770_3120	NW_004520896.1	Scaffold7679	3120	TT	CC	1947065372
SNP_P4_191771_3283	NW_004520896.1	Scaffold7679	3283	AA	GG	1947065373
SNP_P4_191772_3348	NW_004520896.1	Scaffold7679	3348	AA	TT	1947065374
SNP_P4_191773_790	NW_004520904.1	Scaffold7691	790	GG	AA	1947065375
SNP_P4_191774_795	NW_004520904.1	Scaffold7691	795	GG	AA	1947065376
SNP_P4_191775_1113	NW_004520904.1	Scaffold7691	1113	GG	AA	1947065377
SNP_P4_191776_444	NW_004520908.1	Scaffold7697	444	GG	CC	1947065378
SNP_P4_191778_653	NW_004520908.1	Scaffold7697	653	AA	GG	1947065379
SNP_P4_191779_676	NW_004520908.1	Scaffold7697	676	GG	CC	1947065380
SNP_P4_191780_729	NW_004520908.1	Scaffold7697	729	AA	TT	1947065381
SNP_P4_191781_790	NW_004520908.1	Scaffold7697	790	TT	CC	1947065382
SNP_P4_191782_494	NW_004520909.1	Scaffold7698	494	CC	AA	1947065383
SNP_P4_191783_500	NW_004520909.1	Scaffold7698	500	TT	CC	1947065384
SNP_P4_191784_506	NW_004520909.1	Scaffold7698	506	AA	GG	1947065385
SNP_P4_191785_668	NW_004520909.1	Scaffold7698	668	GG	CC	1947065386
SNP_P4_191786_704	NW_004520909.1	Scaffold7698	704	AA	TT	1947065387
SNP_P4_191787_719	NW_004520909.1	Scaffold7698	719	CC	TT	1947065388
SNP_P4_191788_798	NW_004520909.1	Scaffold7698	798	GG	AA	1947065389
SNP_P4_191789_800	NW_004520909.1	Scaffold7698	800	CC	TT	1947065390
SNP_P4_191790_855	NW_004520909.1	Scaffold7698	855	AA	GG	1947065391
SNP_P4_191791_890	NW_004520909.1	Scaffold7698	890	AA	GG	1947065392
SNP_P4_191792_979	NW_004520909.1	Scaffold7698	979	CC	GG	1947065393
SNP_P4_191793_1012	NW_004520909.1	Scaffold7698	1012	AA	GG	1947065394
SNP_P4_191794_1027	NW_004520909.1	Scaffold7698	1027	CC	AA	1947065395
SNP_P4_191795_1125	NW_004520909.1	Scaffold7698	1125	TT	CC	1947065396
SNP_P4_191796_1163	NW_004520909.1	Scaffold7698	1163	TT	CC	1947065397
SNP_P4_191797_1222	NW_004520909.1	Scaffold7698	1222	CC	TT	1947065398
SNP_P4_191798_1397	NW_004520910.1	Scaffold7699	1397	AA	GG	1947065399
SNP_P4_191799_1398	NW_004520910.1	Scaffold7699	1398	GG	AA	1947065400
SNP_P4_191800_542	NW_004520912.1	Scaffold7701	542	AA	TT	1947065401
SNP_P4_191801_561	NW_004520912.1	Scaffold7701	561	CC	AA	1947065402
SNP_P4_191802_644	NW_004520912.1	Scaffold7701	644	TT	GG	1947065403

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_191803_645	NW_004520912.1	Scaffold7701	645	AA	GG	1947065404
SNP_P4_191804_922	NW_004520912.1	Scaffold7701	922	AA	GG	1947065405
SNP_P4_191805_943	NW_004520912.1	Scaffold7701	943	TT	GG	1947065406
SNP_P4_191806_276	NW_004520915.1	Scaffold7704	276	CC	GG	1947065407
SNP_P4_191807_304	NW_004520915.1	Scaffold7704	304	AA	TT	1947065408
SNP_P4_191808_5417	NW_004520919.1	Scaffold7715	5417	CC	GG	1947065409
SNP_P4_191809_5795	NW_004520919.1	Scaffold7715	5795	GG	CC	1947065410
SNP_P4_191810_5852	NW_004520919.1	Scaffold7715	5852	TT	CC	1947065411
SNP_P4_191811_5874	NW_004520919.1	Scaffold7715	5874	AA	TT	1947065412
SNP_P4_191812_5930	NW_004520919.1	Scaffold7715	5930	CC	TT	1947065413
SNP_P4_191813_5950	NW_004520919.1	Scaffold7715	5950	TT	CC	1947065414
SNP_P4_191814_1131	NW_004520920.1	Scaffold7716	1131	AA	GG	1947065415
SNP_P4_191815_1312	NW_004520921.1	Scaffold7717	1312	TT	CC	1947065416
SNP_P4_191816_1198	NW_004520923.1	Scaffold7724	1198	TT	CC	1947065417
SNP_P4_191817_1481	NW_004520923.1	Scaffold7724	1481	AA	GG	1947065418
SNP_P4_191818_1597	NW_004520923.1	Scaffold7724	1597	AA	GG	1947065419
SNP_P4_191819_2484	NW_004520923.1	Scaffold7724	2484	TT	GG	1947065420
SNP_P4_191821_3567	NW_004520923.1	Scaffold7724	3567	GG	AA	1947065421
SNP_P4_191822_3569	NW_004520923.1	Scaffold7724	3569	GG	TT	1947065422
SNP_P4_191823_3578	NW_004520923.1	Scaffold7724	3578	CC	AA	1947065423
SNP_P4_191824_352	NW_004520924.1	Scaffold7727	352	AA	CC	1947065424
SNP_P4_191825_710	NW_004520925.1	Scaffold7729	710	TT	GG	1947065425
SNP_P4_191826_692	NW_004520927.1	Scaffold7731	692	GG	CC	1947065426
SNP_P4_191827_819	NW_004520927.1	Scaffold7731	819	TT	CC	1947065427
SNP_P4_191828_881	NW_004520927.1	Scaffold7731	881	CC	TT	1947065428
SNP_P4_191829_1182	NW_004520927.1	Scaffold7731	1182	TT	CC	1947065429
SNP_P4_191830_1228	NW_004520927.1	Scaffold7731	1228	CC	TT	1947065430
SNP_P4_191831_1651	NW_004520933.1	Scaffold7740	1651	TT	AA	1947065431
SNP_P4_191832_1673	NW_004520933.1	Scaffold7740	1673	AA	TT	1947065432
SNP_P4_191833_2230	NW_004520933.1	Scaffold7740	2230	CC	TT	1947065433
SNP_P4_191835_815	NW_004520937.1	Scaffold7752	815	TT	CC	1947065434
SNP_P4_191836_969	NW_004520937.1	Scaffold7752	969	AA	GG	1947065435
SNP_P4_191837_1078	NW_004520937.1	Scaffold7752	1078	AA	TT	1947065436
SNP_P4_191838_1086	NW_004520937.1	Scaffold7752	1086	AA	GG	1947065437
SNP_P4_191839_1438	NW_004520937.1	Scaffold7752	1438	CC	TT	1947065438
SNP_P4_191840_788	NW_004520938.1	Scaffold7753	788	AA	CC	1947065439
SNP_P4_191841_813	NW_004520938.1	Scaffold7753	813	GG	TT	1947065441
SNP_P4_191842_821	NW_004520938.1	Scaffold7753	821	AA	CC	1947065443
SNP_P4_191843_893	NW_004520938.1	Scaffold7753	893	CC	AA	1947065445
SNP_P4_191844_924	NW_004520938.1	Scaffold7753	924	TT	AA	1947065447
SNP_P4_191845_928	NW_004520938.1	Scaffold7753	928	TT	GG	1947065449
SNP_P4_191847_64	NW_004520941.1	Scaffold7765	64	CC	AA	1947065451

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_191848_109	NW_004520941.1	Scaffold7765	109	AA	GG	1947065453
SNP_P4_191849_309	NW_004520941.1	Scaffold7765	309	TT	CC	1947065455
SNP_P4_191850_503	NW_004520941.1	Scaffold7765	503	CC	TT	1947065457
SNP_P4_191851_663	NW_004520941.1	Scaffold7765	663	AA	GG	1947065459
SNP_P4_191852_674	NW_004520941.1	Scaffold7765	674	GG	AA	1947065461
SNP_P4_191853_886	NW_004520941.1	Scaffold7765	886	GG	AA	1947065463
SNP_P4_191854_960	NW_004520941.1	Scaffold7765	960	CC	GG	1947065465
SNP_P4_191856_1063	NW_004520941.1	Scaffold7765	1063	TT	GG	1947065467
SNP_P4_191857_1021	NW_004520947.1	Scaffold7773	1021	TT	AA	1947065469
SNP_P4_191858_233	NW_004520949.1	Scaffold7777	233	CC	AA	1947065471
SNP_P4_191859_1010	NW_004520949.1	Scaffold7777	1010	AA	GG	1947065473
SNP_P4_191860_195	NW_004520950.1	Scaffold7778	195	CC	TT	1947065475
SNP_P4_191861_365	NW_004520950.1	Scaffold7778	365	AA	TT	1947065477
SNP_P4_191862_433	NW_004520950.1	Scaffold7778	433	AA	GG	1947065479
SNP_P4_191863_447	NW_004520950.1	Scaffold7778	447	TT	CC	1947065481
SNP_P4_191864_451	NW_004520950.1	Scaffold7778	451	TT	CC	1947065483
SNP_P4_191865_733	NW_004520950.1	Scaffold7778	733	AA	TT	1947065485
SNP_P4_191866_923	NW_004520950.1	Scaffold7778	923	TT	AA	1947065487
SNP_P4_191867_927	NW_004520950.1	Scaffold7778	927	AA	CC	1947065489
SNP_P4_191868_962	NW_004520950.1	Scaffold7778	962	TT	CC	1947065491
SNP_P4_191869_1000	NW_004520956.1	Scaffold7791	1000	AA	CC	1947065493
SNP_P4_191870_801	NW_004520959.1	Scaffold7795	801	TT	CC	1947065495
SNP_P4_191871_1053	NW_004520959.1	Scaffold7795	1053	GG	CC	1947065497
SNP_P4_191872_1652	NW_004520960.1	Scaffold7797	1652	TT	CC	1947065499
SNP_P4_191873_1981	NW_004520960.1	Scaffold7797	1981	AA	GG	1947065501
SNP_P4_191875_2240	NW_004520960.1	Scaffold7797	2240	AA	GG	1947065503
SNP_P4_191877_2713	NW_004520963.1	Scaffold7801	2713	GG	CC	1947065505
SNP_P4_191878_2717	NW_004520963.1	Scaffold7801	2717	GG	AA	1947065507
SNP_P4_191879_2779	NW_004520963.1	Scaffold7801	2779	TT	GG	1947065509
SNP_P4_191880_1356	NW_004520964.1	Scaffold7802	1356	CC	GG	1947065511
SNP_P4_191881_2155	NW_004520964.1	Scaffold7802	2155	AA	CC	1947065513
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SNP_P4_191884_3200	NW_004520964.1	Scaffold7802	3200	GG	AA	1947065520
SNP_P4_191885_3307	NW_004520964.1	Scaffold7802	3307	GG	TT	1947065522
SNP_P4_191886_3322	NW_004520964.1	Scaffold7802	3322	CC	TT	1947065524
SNP_P4_191887_809	NW_004520965.1	Scaffold7803	809	AA	GG	1947065526
SNP_P4_191888_887	NW_004520965.1	Scaffold7803	887	AA	GG	1947065528
SNP_P4_191889_1034	NW_004520965.1	Scaffold7803	1034	TT	AA	1947065530
SNP_P4_191891_156	NW_004520967.1	Scaffold7807	156	TT	CC	1947065532
SNP_P4_191892_288	NW_004520967.1	Scaffold7807	288	AA	GG	1947065534
SNP_P4_191893_329	NW_004520967.1	Scaffold7807	329	GG	TT	1947065536

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_191894_525	NW_004520967.1	Scaffold7807	525	CC	GG	1947065538
SNP_P4_191895_763	NW_004520967.1	Scaffold7807	763	CC	TT	1947065540
SNP_P4_191896_2009	NW_004520967.1	Scaffold7807	2009	GG	CC	1947065542
SNP_P4_191897_2665	NW_004520967.1	Scaffold7807	2665	AA	GG	1947065544
SNP_P4_191898_2685	NW_004520967.1	Scaffold7807	2685	TT	GG	1947065546
SNP_P4_191899_6025	NW_004520967.1	Scaffold7807	6025	GG	AA	1947065548
SNP_P4_191900_6148	NW_004520967.1	Scaffold7807	6148	CC	TT	1947065550
SNP_P4_191901_6377	NW_004520967.1	Scaffold7807	6377	AA	GG	1947065552
SNP_P4_191902_469	NW_004520968.1	Scaffold7808	469	CC	AA	1947065554
SNP_P4_191903_475	NW_004520968.1	Scaffold7808	475	AA	TT	1947065556
SNP_P4_191904_495	NW_004520968.1	Scaffold7808	495	CC	TT	1947065558
SNP_P4_191905_515	NW_004520968.1	Scaffold7808	515	AA	GG	1947065560
SNP_P4_191906_544	NW_004520968.1	Scaffold7808	544	TT	CC	1947065562
SNP_P4_191907_547	NW_004520968.1	Scaffold7808	547	AA	TT	1947065564
SNP_P4_191908_778	NW_004520968.1	Scaffold7808	778	CC	AA	1947065566
SNP_P4_191909_1003	NW_004520968.1	Scaffold7808	1003	TT	CC	1947065568
SNP_P4_191910_272	NW_004520972.1	Scaffold7815	272	TT	GG	1947065570
SNP_P4_191911_379	NW_004520972.1	Scaffold7815	379	GG	CC	1947065572
SNP_P4_191912_605	NW_004520972.1	Scaffold7815	605	AA	GG	1947065574
SNP_P4_191913_5003	NW_004520972.1	Scaffold7815	5003	TT	AA	1947065576
SNP_P4_191914_294	NW_004520975.1	Scaffold7818	294	AA	CC	1947065578
SNP_P4_191915_497	NW_004520975.1	Scaffold7818	497	GG	AA	1947065580
SNP_P4_191916_111	NW_004520978.1	Scaffold7821	111	CC	TT	1947065582
SNP_P4_191917_114	NW_004520978.1	Scaffold7821	114	TT	AA	1947065584
SNP_P4_191918_123	NW_004520978.1	Scaffold7821	123	GG	AA	1947065586
SNP_P4_191919_129	NW_004520978.1	Scaffold7821	129	AA	GG	1947065588
SNP_P4_191920_134	NW_004520978.1	Scaffold7821	134	CC	TT	1947065590
SNP_P4_191921_162	NW_004520978.1	Scaffold7821	162	GG	TT	1947065592
SNP_P4_191922_166	NW_004520978.1	Scaffold7821	166	AA	CC	1947065594
SNP_P4_191923_174	NW_004520978.1	Scaffold7821	174	CC	TT	1947065596
SNP_P4_191924_180	NW_004520978.1	Scaffold7821	180	GG	AA	1947065598
SNP_P4_191925_192	NW_004520978.1	Scaffold7821	192	GG	AA	1947065600
SNP_P4_191926_195	NW_004520978.1	Scaffold7821	195	TT	CC	1947065602
SNP_P4_191927_200	NW_004520978.1	Scaffold7821	200	CC	GG	1947065604
SNP_P4_191928_201	NW_004520978.1	Scaffold7821	201	CC	TT	1947065606
SNP_P4_191929_203	NW_004520978.1	Scaffold7821	203	AA	TT	1947065608
SNP_P4_191930_207	NW_004520978.1	Scaffold7821	207	CC	TT	1947065610
SNP_P4_191931_238	NW_004520978.1	Scaffold7821	238	TT	CC	1947065612
SNP_P4_191932_285	NW_004520978.1	Scaffold7821	285	TT	CC	1947065614
SNP_P4_191933_291	NW_004520978.1	Scaffold7821	291	AA	GG	1947065616
SNP_P4_191934_301	NW_004520978.1	Scaffold7821	301	AA	CC	1947065618
SNP_P4_191935_306	NW_004520978.1	Scaffold7821	306	GG	AA	1947065620

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SNP_P4_191937_314	NW_004520978.1	Scaffold7821	314	AA	CC	1947065624
SNP_P4_191938_327	NW_004520978.1	Scaffold7821	327	TT	CC	1947065626
SNP_P4_191939_436	NW_004520979.1	Scaffold7823	436	TT	CC	1947065628
SNP_P4_191940_458	NW_004520979.1	Scaffold7823	458	GG	TT	1947065630
SNP_P4_191941_2130	NW_004520979.1	Scaffold7823	2130	CC	TT	1947065633
SNP_P4_191942_4616	NW_004520979.1	Scaffold7823	4616	GG	TT	1947065635
SNP_P4_191943_4844	NW_004520979.1	Scaffold7823	4844	CC	TT	1947065637
SNP_P4_191944_328	NW_004520980.1	Scaffold7825	328	GG	AA	1947065639
SNP_P4_191945_1135	NW_004520985.1	Scaffold7837	1135	AA	GG	1947065641
SNP_P4_191946_1194	NW_004520985.1	Scaffold7837	1194	CC	TT	1947065643
SNP_P4_191947_1206	NW_004520985.1	Scaffold7837	1206	GG	AA	1947065645
SNP_P4_191948_1363	NW_004520985.1	Scaffold7837	1363	GG	TT	1947065647
SNP_P4_191949_1369	NW_004520985.1	Scaffold7837	1369	GG	AA	1947065649
SNP_P4_191950_1370	NW_004520985.1	Scaffold7837	1370	GG	AA	1947065651
SNP_P4_191951_1430	NW_004520985.1	Scaffold7837	1430	TT	CC	1947065653
SNP_P4_191952_1432	NW_004520985.1	Scaffold7837	1432	TT	AA	1947065655
SNP_P4_191953_3339	NW_004520986.1	Scaffold7839	3339	CC	TT	1947065657
SNP_P4_191954_4065	NW_004520986.1	Scaffold7839	4065	AA	CC	1947065659
SNP_P4_191955_4130	NW_004520986.1	Scaffold7839	4130	AA	TT	1947065661
SNP_P4_191956_4811	NW_004520986.1	Scaffold7839	4811	GG	AA	1947065663
SNP_P4_191957_5032	NW_004520986.1	Scaffold7839	5032	TT	CC	1947065665
SNP_P4_191958_5040	NW_004520986.1	Scaffold7839	5040	AA	TT	1947065667
SNP_P4_191959_19554	NW_004520987.1	Scaffold7842	19554	GG	AA	1947065669
SNP_P4_191960_19867	NW_004520987.1	Scaffold7842	19867	TT	CC	1947065671
SNP_P4_191962_20102	NW_004520987.1	Scaffold7842	20102	AA	GG	1947065673
SNP_P4_191963_20195	NW_004520987.1	Scaffold7842	20195	AA	GG	1947065675
SNP_P4_191964_20296	NW_004520987.1	Scaffold7842	20296	AA	TT	1947065677
SNP_P4_191965_20299	NW_004520987.1	Scaffold7842	20299	TT	AA	1947065679
SNP_P4_191966_20308	NW_004520987.1	Scaffold7842	20308	CC	GG	1947065681
SNP_P4_191968_20357	NW_004520987.1	Scaffold7842	20357	TT	AA	1947065683
SNP_P4_191970_20506	NW_004520987.1	Scaffold7842	20506	TT	CC	1947065685
SNP_P4_191971_20507	NW_004520987.1	Scaffold7842	20507	AA	CC	1947065687
SNP_P4_191972_20533	NW_004520987.1	Scaffold7842	20533	AA	TT	1947065689
SNP_P4_191974_1109	NW_004520989.1	Scaffold7848	1109	AA	GG	1947065691
SNP_P4_191975_1171	NW_004520989.1	Scaffold7848	1171	AA	TT	1947065693
SNP_P4_191976_76	NW_004520993.1	Scaffold7857	76	GG	CC	1947065695
SNP_P4_191977_302	NW_004520993.1	Scaffold7857	302	AA	CC	1947065697
SNP_P4_191978_481	NW_004520993.1	Scaffold7857	481	TT	CC	1947065700
SNP_P4_191979_638	NW_004520993.1	Scaffold7857	638	AA	CC	1947065702
SNP_P4_191980_642	NW_004520993.1	Scaffold7857	642	CC	AA	1947065704
SNP_P4_191981_646	NW_004520993.1	Scaffold7857	646	GG	AA	1947065706

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SNP_P4_191982_647	NW_004520993.1	Scaffold7857	647	GG	AA	1947065708
SNP_P4_191983_727	NW_004520993.1	Scaffold7857	727	AA	TT	1947065710
SNP_P4_191984_728	NW_004520993.1	Scaffold7857	728	TT	GG	1947065712
SNP_P4_191985_781	NW_004520993.1	Scaffold7857	781	AA	TT	1947065714
SNP_P4_191986_792	NW_004520993.1	Scaffold7857	792	AA	CC	1947065716
SNP_P4_191987_1043	NW_004520993.1	Scaffold7857	1043	AA	TT	1947065718
SNP_P4_191988_551	NW_004520996.1	Scaffold7863	551	TT	CC	1947065720
SNP_P4_191989_1307	NW_004520999.1	Scaffold7868	1307	GG	TT	1947065722
SNP_P4_191991_1570	NW_004520999.1	Scaffold7868	1570	GG	CC	1947065724
SNP_P4_191992_1575	NW_004520999.1	Scaffold7868	1575	CC	TT	1947065726
SNP_P4_191993_1597	NW_004520999.1	Scaffold7868	1597	AA	TT	1947065728
SNP_P4_191994_1620	NW_004520999.1	Scaffold7868	1620	GG	CC	1947065730
SNP_P4_191995_520	NW_004521004.1	Scaffold7880	520	GG	TT	1947065732
SNP_P4_191996_845	NW_004521005.1	Scaffold7882	845	AA	CC	1947065734
SNP_P4_191998_1038	NW_004521008.1	Scaffold7886	1038	GG	CC	1947065735
SNP_P4_191999_1087	NW_004521008.1	Scaffold7886	1087	CC	TT	1947065737
SNP_P4_192000_251	NW_004521009.1	Scaffold7887	251	CC	TT	1947065739
SNP_P4_192001_258	NW_004521009.1	Scaffold7887	258	AA	CC	1947065741
SNP_P4_192002_577	NW_004521009.1	Scaffold7887	577	AA	GG	1947065743
SNP_P4_192003_157	NW_004521010.1	Scaffold7889	157	AA	TT	1947065745
SNP_P4_192004_1886	NW_004521010.1	Scaffold7889	1886	AA	TT	1947065747
SNP_P4_192005_1898	NW_004521010.1	Scaffold7889	1898	AA	GG	1947065749
SNP_P4_192006_1927	NW_004521010.1	Scaffold7889	1927	AA	GG	1947065751
SNP_P4_192008_427	NW_004521011.1	Scaffold7890	427	CC	TT	1947065753
SNP_P4_192009_438	NW_004521011.1	Scaffold7890	438	GG	AA	1947065755
SNP_P4_192010_481	NW_004521011.1	Scaffold7890	481	AA	TT	1947065757
SNP_P4_192011_530	NW_004521011.1	Scaffold7890	530	AA	CC	1947065759
SNP_P4_192012_605	NW_004521011.1	Scaffold7890	605	TT	GG	1947065761
SNP_P4_192013_673	NW_004521011.1	Scaffold7890	673	GG	AA	1947065763
SNP_P4_192015_773	NW_004521011.1	Scaffold7890	773	TT	CC	1947065765
SNP_P4_192016_796	NW_004521011.1	Scaffold7890	796	TT	CC	1947065767
SNP_P4_192017_841	NW_004521011.1	Scaffold7890	841	TT	CC	1947065769
SNP_P4_192018_1141	NW_004521012.1	Scaffold7891	1141	TT	GG	1947065771
SNP_P4_192019_3062	NW_004521012.1	Scaffold7891	3062	AA	GG	1947065773
SNP_P4_192020_3087	NW_004521012.1	Scaffold7891	3087	TT	CC	1947065775
SNP_P4_192021_3335	NW_004521012.1	Scaffold7891	3335	AA	GG	1947065777
SNP_P4_192022_3420	NW_004521012.1	Scaffold7891	3420	TT	CC	1947065779
SNP_P4_192023_3441	NW_004521012.1	Scaffold7891	3441	CC	AA	1947065781
SNP_P4_192024_3746	NW_004521012.1	Scaffold7891	3746	AA	GG	1947065783
SNP_P4_192025_3749	NW_004521012.1	Scaffold7891	3749	GG	TT	1947065785
SNP_P4_192027_3854	NW_004521012.1	Scaffold7891	3854	CC	TT	1947065787
SNP_P4_192028_3873	NW_004521012.1	Scaffold7891	3873	TT	CC	1947065789

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_192029_3888	NW_004521012.1	Scaffold7891	3888	TT	CC	1947065790
SNP_P4_192030_3961	NW_004521012.1	Scaffold7891	3961	GG	TT	1947065792
SNP_P4_192031_4033	NW_004521012.1	Scaffold7891	4033	TT	GG	1947065794
SNP_P4_192032_4046	NW_004521012.1	Scaffold7891	4046	AA	CC	1947065796
SNP_P4_192033_4050	NW_004521012.1	Scaffold7891	4050	CC	TT	1947065798
SNP_P4_192034_4088	NW_004521012.1	Scaffold7891	4088	AA	GG	1947065800
SNP_P4_192035_4093	NW_004521012.1	Scaffold7891	4093	CC	TT	1947065802
SNP_P4_192036_4094	NW_004521012.1	Scaffold7891	4094	AA	GG	1947065804
SNP_P4_192037_4202	NW_004521012.1	Scaffold7891	4202	AA	CC	1947065806
SNP_P4_192038_4216	NW_004521012.1	Scaffold7891	4216	GG	TT	1947065808
SNP_P4_192039_4248	NW_004521012.1	Scaffold7891	4248	AA	TT	1947065809
SNP_P4_192040_4251	NW_004521012.1	Scaffold7891	4251	GG	AA	1947065811
SNP_P4_192041_4349	NW_004521012.1	Scaffold7891	4349	AA	GG	1947065813
SNP_P4_192042_4414	NW_004521012.1	Scaffold7891	4414	AA	GG	1947065815
SNP_P4_192043_4429	NW_004521012.1	Scaffold7891	4429	GG	TT	1947065817
SNP_P4_192044_4455	NW_004521012.1	Scaffold7891	4455	TT	CC	1947065819
SNP_P4_192045_4456	NW_004521012.1	Scaffold7891	4456	GG	AA	1947065821
SNP_P4_192046_4496	NW_004521012.1	Scaffold7891	4496	TT	CC	1947065823
SNP_P4_192047_4525	NW_004521012.1	Scaffold7891	4525	AA	CC	1947065825
SNP_P4_192048_4540	NW_004521012.1	Scaffold7891	4540	TT	CC	1947065827
SNP_P4_192049_4547	NW_004521012.1	Scaffold7891	4547	CC	GG	1947065829
SNP_P4_192050_4572	NW_004521012.1	Scaffold7891	4572	CC	TT	1947065831
SNP_P4_192051_4634	NW_004521012.1	Scaffold7891	4634	AA	TT	1947065833
SNP_P4_192052_4659	NW_004521012.1	Scaffold7891	4659	TT	GG	1947065835
SNP_P4_192053_4736	NW_004521012.1	Scaffold7891	4736	TT	CC	1947065837
SNP_P4_192054_4760	NW_004521012.1	Scaffold7891	4760	CC	AA	1947065839
SNP_P4_192055_4770	NW_004521012.1	Scaffold7891	4770	AA	CC	1947065841
SNP_P4_192056_4792	NW_004521012.1	Scaffold7891	4792	AA	GG	1947065843
SNP_P4_192057_4850	NW_004521012.1	Scaffold7891	4850	TT	AA	1947065845
SNP_P4_192058_4867	NW_004521012.1	Scaffold7891	4867	AA	GG	1947065847
SNP_P4_192059_95	NW_004521017.1	Scaffold7898	95	TT	CC	1947065849
SNP_P4_192060_100	NW_004521017.1	Scaffold7898	100	TT	AA	1947065851
SNP_P4_192061_121	NW_004521017.1	Scaffold7898	121	TT	GG	1947065853
SNP_P4_192062_398	NW_004521017.1	Scaffold7898	398	AA	TT	1947065855
SNP_P4_192063_975	NW_004521017.1	Scaffold7898	975	TT	CC	1947065857
SNP_P4_192064_1004	NW_004521017.1	Scaffold7898	1004	AA	TT	1947065859
SNP_P4_192065_299	NW_004521019.1	Scaffold7902	299	CC	AA	1947065861
SNP_P4_192066_422	NW_004521019.1	Scaffold7902	422	TT	GG	1947065863
SNP_P4_192067_664	NW_004521019.1	Scaffold7902	664	CC	TT	1947065865
SNP_P4_192069_905	NW_004521019.1	Scaffold7902	905	GG	AA	1947065867
SNP_P4_192070_1458	NW_004521019.1	Scaffold7902	1458	TT	CC	1947065869
SNP_P4_192071_1573	NW_004521019.1	Scaffold7902	1573	AA	GG	1947065871

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_192072_1764	NW_004521019.1	Scaffold7902	1764	AA	GG	1947065873
SNP_P4_192073_1958	NW_004521022.1	Scaffold7906	1958	CC	TT	1947065874
SNP_P4_192074_1968	NW_004521022.1	Scaffold7906	1968	GG	AA	1947065876
SNP_P4_192075_2015	NW_004521022.1	Scaffold7906	2015	GG	AA	1947065878
SNP_P4_192076_2211	NW_004521022.1	Scaffold7906	2211	TT	AA	1947065880
SNP_P4_192077_2429	NW_004521022.1	Scaffold7906	2429	GG	CC	1947065882
SNP_P4_192078_677	NW_004521023.1	Scaffold7907	677	CC	AA	1947065884
SNP_P4_192079_4657	NW_004521029.1	Scaffold7922	4657	TT	CC	1947065886
SNP_P4_192080_4850	NW_004521029.1	Scaffold7922	4850	AA	GG	1947065888
SNP_P4_192081_4960	NW_004521029.1	Scaffold7922	4960	GG	AA	1947065890
SNP_P4_192082_5044	NW_004521029.1	Scaffold7922	5044	GG	AA	1947065892
SNP_P4_192083_5134	NW_004521029.1	Scaffold7922	5134	AA	TT	1947065894
SNP_P4_192085_5344	NW_004521029.1	Scaffold7922	5344	CC	TT	1947065896
SNP_P4_192086_5381	NW_004521029.1	Scaffold7922	5381	GG	CC	1947065898
SNP_P4_192089_2482	NW_004521030.1	Scaffold7923	2482	CC	TT	1947065900
SNP_P4_192091_22306	NW_004521030.1	Scaffold7923	22306	TT	CC	1947065901
SNP_P4_192092_22310	NW_004521030.1	Scaffold7923	22310	AA	TT	1947065903
SNP_P4_192093_22409	NW_004521030.1	Scaffold7923	22409	AA	GG	1947065905
SNP_P4_192094_22422	NW_004521030.1	Scaffold7923	22422	CC	AA	1947065907
SNP_P4_192095_22440	NW_004521030.1	Scaffold7923	22440	GG	AA	1947065909
SNP_P4_192096_22548	NW_004521030.1	Scaffold7923	22548	CC	TT	1947065911
SNP_P4_192097_22561	NW_004521030.1	Scaffold7923	22561	GG	TT	1947065913
SNP_P4_192098_22619	NW_004521030.1	Scaffold7923	22619	AA	GG	1947065915
SNP_P4_192099_22778	NW_004521030.1	Scaffold7923	22778	AA	GG	1947065917
SNP_P4_192100_22782	NW_004521030.1	Scaffold7923	22782	GG	TT	1947065918
SNP_P4_192101_22830	NW_004521030.1	Scaffold7923	22830	CC	TT	1947065920
SNP_P4_192102_22866	NW_004521030.1	Scaffold7923	22866	AA	TT	1947065922
SNP_P4_192103_22874	NW_004521030.1	Scaffold7923	22874	GG	CC	1947065924
SNP_P4_192104_23129	NW_004521030.1	Scaffold7923	23129	TT	GG	1947065926
SNP_P4_192105_23131	NW_004521030.1	Scaffold7923	23131	AA	GG	1947065928
SNP_P4_192106_23135	NW_004521030.1	Scaffold7923	23135	TT	CC	1947065930
SNP_P4_192107_23227	NW_004521030.1	Scaffold7923	23227	TT	CC	1947065932
SNP_P4_192108_24953	NW_004521030.1	Scaffold7923	24953	TT	CC	1947065934
SNP_P4_192109_24993	NW_004521030.1	Scaffold7923	24993	AA	TT	1947065936
SNP_P4_192110_25028	NW_004521030.1	Scaffold7923	25028	CC	TT	1947065938
SNP_P4_192111_25162	NW_004521030.1	Scaffold7923	25162	CC	AA	1947065940
SNP_P4_192112_25261	NW_004521030.1	Scaffold7923	25261	GG	AA	1947065942
SNP_P4_192114_2677	NW_004521032.1	Scaffold7927	2677	TT	AA	1947065944
SNP_P4_192115_2907	NW_004521032.1	Scaffold7927	2907	AA	CC	1947065946
SNP_P4_192116_2922	NW_004521032.1	Scaffold7927	2922	AA	CC	1947065948
SNP_P4_192117_359	NW_004521035.1	Scaffold7934	359	CC	TT	1947065950
SNP_P4_192118_590	NW_004521035.1	Scaffold7934	590	GG	TT	1947065952

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_192119_821	NW_004521035.1	Scaffold7934	821	AA	GG	1947065954
SNP_P4_192120_1954	NW_004521035.1	Scaffold7934	1954	TT	AA	1947065956
SNP_P4_192121_2148	NW_004521035.1	Scaffold7934	2148	CC	TT	1947065959
SNP_P4_192122_2292	NW_004521035.1	Scaffold7934	2292	TT	CC	1947065961
SNP_P4_192123_2448	NW_004521035.1	Scaffold7934	2448	TT	GG	1947065963
SNP_P4_192124_2463	NW_004521035.1	Scaffold7934	2463	TT	AA	1947065965
SNP_P4_192125_2678	NW_004521035.1	Scaffold7934	2678	GG	AA	1947065967
SNP_P4_192126_2837	NW_004521035.1	Scaffold7934	2837	GG	AA	1947065969
SNP_P4_192127_2912	NW_004521035.1	Scaffold7934	2912	TT	AA	1947065971
SNP_P4_192128_3009	NW_004521035.1	Scaffold7934	3009	AA	TT	1947065973
SNP_P4_192129_3086	NW_004521035.1	Scaffold7934	3086	AA	GG	1947065975
SNP_P4_192130_3099	NW_004521035.1	Scaffold7934	3099	TT	CC	1947065977
SNP_P4_192131_3160	NW_004521035.1	Scaffold7934	3160	TT	GG	1947065979
SNP_P4_192132_5850	NW_004521035.1	Scaffold7934	5850	GG	CC	1947065982
SNP_P4_192133_504	NW_004521039.1	Scaffold7943	504	AA	GG	1947065984
SNP_P4_192134_583	NW_004521039.1	Scaffold7943	583	CC	GG	1947065986
SNP_P4_192135_593	NW_004521039.1	Scaffold7943	593	TT	CC	1947065988
SNP_P4_192136_1067	NW_004521046.1	Scaffold7956	1067	CC	AA	1947065990
SNP_P4_192137_1134	NW_004521046.1	Scaffold7956	1134	GG	AA	1947065992
SNP_P4_192138_388	NW_004521048.1	Scaffold7958	388	GG	TT	1947065994
SNP_P4_192139_512	NW_004521048.1	Scaffold7958	512	TT	CC	1947065996
SNP_P4_192140_612	NW_004521048.1	Scaffold7958	612	CC	AA	1947065998
SNP_P4_192141_745	NW_004521048.1	Scaffold7958	745	TT	AA	1947066000
SNP_P4_192142_881	NW_004521048.1	Scaffold7958	881	AA	TT	1947066003
SNP_P4_192143_988	NW_004521048.1	Scaffold7958	988	TT	CC	1947066005
SNP_P4_192144_1010	NW_004521048.1	Scaffold7958	1010	AA	TT	1947066007
SNP_P4_192145_730	NW_004521049.1	Scaffold7961	730	AA	TT	1947066009
SNP_P4_192146_967	NW_004521049.1	Scaffold7961	967	AA	GG	1947066011
SNP_P4_192148_2371	NW_004521052.1	Scaffold7967	2371	TT	CC	1947066013
SNP_P4_192149_2477	NW_004521052.1	Scaffold7967	2477	CC	GG	1947066015
SNP_P4_192150_306	NW_004521056.1	Scaffold7976	306	TT	AA	1947066017
SNP_P4_192152_4628	NW_004521057.1	Scaffold7980	4628	AA	TT	1947066019
SNP_P4_192153_4959	NW_004521057.1	Scaffold7980	4959	TT	GG	1947066021
SNP_P4_192154_4977	NW_004521057.1	Scaffold7980	4977	TT	CC	1947066023
SNP_P4_192155_4982	NW_004521057.1	Scaffold7980	4982	GG	TT	1947066025
SNP_P4_192157_5017	NW_004521057.1	Scaffold7980	5017	GG	AA	1947066027
SNP_P4_192158_5019	NW_004521057.1	Scaffold7980	5019	AA	CC	1947066029
SNP_P4_192159_85	NW_004521058.1	Scaffold7984	85	TT	CC	1947066031
SNP_P4_192160_168	NW_004521058.1	Scaffold7984	168	AA	TT	1947066033
SNP_P4_192161_196	NW_004521059.1	Scaffold7985	196	GG	TT	1947066035
SNP_P4_192162_219	NW_004521059.1	Scaffold7985	219	TT	CC	1947066037
SNP_P4_192163_296	NW_004521059.1	Scaffold7985	296	CC	AA	1947066039

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SNP_P4_192165_572	NW_004521059.1	Scaffold7985	572	AA	GG	1947066041
SNP_P4_192166_618	NW_004521059.1	Scaffold7985	618	AA	GG	1947066044
SNP_P4_192167_668	NW_004521059.1	Scaffold7985	668	TT	CC	1947066046
SNP_P4_192168_688	NW_004521059.1	Scaffold7985	688	TT	CC	1947066048
SNP_P4_192169_713	NW_004521059.1	Scaffold7985	713	GG	AA	1947066050
SNP_P4_192170_718	NW_004521059.1	Scaffold7985	718	AA	GG	1947066052
SNP_P4_192171_742	NW_004521059.1	Scaffold7985	742	GG	TT	1947066054
SNP_P4_192172_747	NW_004521059.1	Scaffold7985	747	CC	GG	1947066056
SNP_P4_192173_775	NW_004521059.1	Scaffold7985	775	AA	TT	1947066058
SNP_P4_192174_785	NW_004521059.1	Scaffold7985	785	TT	GG	1947066060
SNP_P4_192175_812	NW_004521059.1	Scaffold7985	812	AA	CC	1947066062
SNP_P4_192176_817	NW_004521059.1	Scaffold7985	817	CC	TT	1947066064
SNP_P4_192177_824	NW_004521059.1	Scaffold7985	824	TT	CC	1947066066
SNP_P4_192178_856	NW_004521059.1	Scaffold7985	856	TT	CC	1947066068
SNP_P4_192179_860	NW_004521059.1	Scaffold7985	860	TT	CC	1947066070
SNP_P4_192180_1068	NW_004521059.1	Scaffold7985	1068	AA	GG	1947066072
SNP_P4_192181_1111	NW_004521059.1	Scaffold7985	1111	TT	GG	1947066074
SNP_P4_192182_1136	NW_004521059.1	Scaffold7985	1136	TT	CC	1947066076
SNP_P4_192183_1171	NW_004521059.1	Scaffold7985	1171	TT	CC	1947066078
SNP_P4_192184_1189	NW_004521059.1	Scaffold7985	1189	AA	GG	1947066080
SNP_P4_192185_1233	NW_004521059.1	Scaffold7985	1233	AA	CC	1947066082
SNP_P4_192186_1270	NW_004521059.1	Scaffold7985	1270	AA	GG	1947066084
SNP_P4_192187_21124	NW_004521059.1	Scaffold7985	21124	GG	CC	1947066086
SNP_P4_192188_348	NW_004521062.1	Scaffold7989	348	TT	CC	1947066088
SNP_P4_192189_488	NW_004521062.1	Scaffold7989	488	TT	AA	1947066090
SNP_P4_192190_565	NW_004521062.1	Scaffold7989	565	TT	CC	1947066092
SNP_P4_192191_446	NW_004521063.1	Scaffold7990	446	AA	GG	1947066094
SNP_P4_192192_473	NW_004521063.1	Scaffold7990	473	CC	TT	1947066096
SNP_P4_192193_840	NW_004521063.1	Scaffold7990	840	AA	TT	1947066098
SNP_P4_192194_929	NW_004521063.1	Scaffold7990	929	TT	GG	1947066100
SNP_P4_192195_1248	NW_004521063.1	Scaffold7990	1248	TT	AA	1947066102
SNP_P4_192196_1406	NW_004521063.1	Scaffold7990	1406	GG	TT	1947066104
SNP_P4_192197_1510	NW_004521063.1	Scaffold7990	1510	CC	TT	1947066106
SNP_P4_192198_1281	NW_004521069.1	Scaffold7997	1281	AA	GG	1947066108
SNP_P4_192199_4616	NW_004521071.1	Scaffold8004	4616	AA	GG	1947066110
SNP_P4_192200_4622	NW_004521071.1	Scaffold8004	4622	AA	CC	1947066112
SNP_P4_192201_238	NW_004521076.1	Scaffold8015	238	TT	CC	1947066114
SNP_P4_192202_496	NW_004521076.1	Scaffold8015	496	AA	GG	1947066116
SNP_P4_192203_2566	NW_004521079.1	Scaffold8018	2566	CC	AA	1947066118
SNP_P4_192204_2939	NW_004521079.1	Scaffold8018	2939	AA	TT	1947066120
SNP_P4_192205_6816	NW_004521079.1	Scaffold8018	6816	GG	AA	1947066122
SNP_P4_192206_6960	NW_004521079.1	Scaffold8018	6960	CC	TT	1947066124

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_192208_7100	NW_004521079.1	Scaffold8018	7100	TT	AA	1947066128
SNP_P4_192209_7433	NW_004521079.1	Scaffold8018	7433	AA	GG	1947066130
SNP_P4_192210_7678	NW_004521079.1	Scaffold8018	7678	TT	GG	1947066132
SNP_P4_192211_7687	NW_004521079.1	Scaffold8018	7687	CC	TT	1947066134
SNP_P4_192212_478	NW_004521080.1	Scaffold8023	478	TT	AA	1947066136
SNP_P4_192213_577	NW_004521080.1	Scaffold8023	577	GG	CC	1947066138
SNP_P4_192214_652	NW_004521080.1	Scaffold8023	652	GG	AA	1947066140
SNP_P4_192215_699	NW_004521080.1	Scaffold8023	699	CC	TT	1947066142
SNP_P4_192216_5247	NW_004521083.1	Scaffold8030	5247	CC	GG	1947066143
SNP_P4_192217_5356	NW_004521083.1	Scaffold8030	5356	CC	AA	1947066145
SNP_P4_192218_5378	NW_004521083.1	Scaffold8030	5378	AA	GG	1947066147
SNP_P4_192219_5380	NW_004521083.1	Scaffold8030	5380	CC	TT	1947066149
SNP_P4_192220_5557	NW_004521083.1	Scaffold8030	5557	TT	CC	1947066151
SNP_P4_192221_6587	NW_004521083.1	Scaffold8030	6587	CC	TT	1947066153
SNP_P4_192222_616	NW_004521091.1	Scaffold8047	616	TT	CC	1947066155
SNP_P4_192223_89	NW_004521092.1	Scaffold8050	89	AA	CC	1947066157
SNP_P4_192224_1004	NW_004521092.1	Scaffold8050	1004	GG	TT	1947066159
SNP_P4_192225_1034	NW_004521092.1	Scaffold8050	1034	AA	TT	1947066161
SNP_P4_192226_1108	NW_004521092.1	Scaffold8050	1108	AA	GG	1947066163
SNP_P4_192227_1111	NW_004521092.1	Scaffold8050	1111	AA	GG	1947066165
SNP_P4_192228_1177	NW_004521092.1	Scaffold8050	1177	TT	AA	1947066167
SNP_P4_192229_1180	NW_004521092.1	Scaffold8050	1180	GG	TT	1947066169
SNP_P4_192230_1327	NW_004521092.1	Scaffold8050	1327	TT	AA	1947066171
SNP_P4_192231_1342	NW_004521092.1	Scaffold8050	1342	TT	CC	1947066173
SNP_P4_192232_1346	NW_004521092.1	Scaffold8050	1346	AA	GG	1947066175
SNP_P4_192233_1479	NW_004521092.1	Scaffold8050	1479	GG	TT	1947066177
SNP_P4_192234_1480	NW_004521092.1	Scaffold8050	1480	CC	TT	1947066179
SNP_P4_192235_690	NW_004521093.1	Scaffold8051	690	AA	GG	1947066181
SNP_P4_192236_1344	NW_004521094.1	Scaffold8052	1344	TT	CC	1947066183
SNP_P4_192237_295	NW_004521095.1	Scaffold8054	295	AA	GG	1947066184
SNP_P4_192238_322	NW_004521095.1	Scaffold8054	322	AA	TT	1947066186
SNP_P4_192239_352	NW_004521095.1	Scaffold8054	352	AA	TT	1947066188
SNP_P4_192240_430	NW_004521095.1	Scaffold8054	430	AA	GG	1947066190
SNP_P4_192241_444	NW_004521095.1	Scaffold8054	444	CC	TT	1947066192
SNP_P4_192242_460	NW_004521095.1	Scaffold8054	460	AA	TT	1947066194
SNP_P4_192243_545	NW_004521095.1	Scaffold8054	545	GG	AA	1947066196
SNP_P4_192244_609	NW_004521095.1	Scaffold8054	609	TT	CC	1947066198
SNP_P4_192245_746	NW_004521095.1	Scaffold8054	746	TT	AA	1947066200
SNP_P4_192246_1470	NW_004521095.1	Scaffold8054	1470	TT	AA	1947066202
SNP_P4_192247_1475	NW_004521095.1	Scaffold8054	1475	GG	TT	1947066204
SNP_P4_192249_1755	NW_004521095.1	Scaffold8054	1755	AA	GG	1947066206

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_192251_1855	NW_004521095.1	Scaffold8054	1855	TT	AA	1947066210
SNP_P4_192252_1881	NW_004521095.1	Scaffold8054	1881	TT	AA	1947066212
SNP_P4_192254_2045	NW_004521095.1	Scaffold8054	2045	CC	GG	1947066214
SNP_P4_192255_2066	NW_004521095.1	Scaffold8054	2066	AA	GG	1947066216
SNP_P4_192256_3129	NW_004521095.1	Scaffold8054	3129	CC	AA	1947066218
SNP_P4_192257_3267	NW_004521095.1	Scaffold8054	3267	CC	GG	1947066220
SNP_P4_192258_3562	NW_004521095.1	Scaffold8054	3562	TT	CC	1947066222
SNP_P4_192259_3570	NW_004521095.1	Scaffold8054	3570	TT	AA	1947066224
SNP_P4_192260_3632	NW_004521095.1	Scaffold8054	3632	TT	CC	1947066226
SNP_P4_192261_3770	NW_004521095.1	Scaffold8054	3770	CC	TT	1947066228
SNP_P4_192262_3772	NW_004521095.1	Scaffold8054	3772	CC	TT	1947066230
SNP_P4_192263_3796	NW_004521095.1	Scaffold8054	3796	AA	CC	1947066232
SNP_P4_192264_503	NW_004521098.1	Scaffold8061	503	AA	GG	1947066234
SNP_P4_192265_1117	NW_004521098.1	Scaffold8061	1117	AA	CC	1947066236
SNP_P4_192266_279	NW_004521100.1	Scaffold8063	279	CC	TT	1947066238
SNP_P4_192267_532	NW_004521100.1	Scaffold8063	532	AA	GG	1947066240
SNP_P4_192269_574	NW_004521100.1	Scaffold8063	574	TT	CC	1947066242
SNP_P4_192270_576	NW_004521100.1	Scaffold8063	576	CC	AA	1947066244
SNP_P4_192271_233	NW_004521102.1	Scaffold8066	233	CC	AA	1947066246
SNP_P4_192272_255	NW_004521102.1	Scaffold8066	255	GG	TT	1947066248
SNP_P4_192273_445	NW_004521103.1	Scaffold8068	445	GG	AA	1947066250
SNP_P4_192274_478	NW_004521103.1	Scaffold8068	478	TT	CC	1947066252
SNP_P4_192275_557	NW_004521103.1	Scaffold8068	557	TT	AA	1947066254
SNP_P4_192276_724	NW_004521103.1	Scaffold8068	724	GG	AA	1947066256
SNP_P4_192277_754	NW_004521103.1	Scaffold8068	754	AA	TT	1947066258
SNP_P4_192278_755	NW_004521103.1	Scaffold8068	755	CC	TT	1947066260
SNP_P4_192279_788	NW_004521103.1	Scaffold8068	788	AA	CC	1947066262
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SNP_P4_192281_793	NW_004521103.1	Scaffold8068	793	GG	CC	1947066266
SNP_P4_192282_870	NW_004521103.1	Scaffold8068	870	AA	GG	1947066268
SNP_P4_192283_872	NW_004521103.1	Scaffold8068	872	CC	AA	1947066270
SNP_P4_192284_894	NW_004521103.1	Scaffold8068	894	CC	GG	1947066272
SNP_P4_192285_952	NW_004521103.1	Scaffold8068	952	GG	AA	1947066274
SNP_P4_192286_964	NW_004521103.1	Scaffold8068	964	GG	CC	1947066276
SNP_P4_192287_1077	NW_004521103.1	Scaffold8068	1077	AA	GG	1947066278
SNP_P4_192288_633	NW_004521111.1	Scaffold8087	633	TT	CC	1947066280
SNP_P4_192289_735	NW_004521111.1	Scaffold8087	735	CC	TT	1947066282
SNP_P4_192290_756	NW_004521111.1	Scaffold8087	756	TT	CC	1947066284
SNP_P4_192291_759	NW_004521111.1	Scaffold8087	759	AA	CC	1947066286
SNP_P4_192293_4610	NW_004521111.1	Scaffold8087	4610	TT	CC	1947066288
SNP_P4_192294_441	NW_004521113.1	Scaffold8092	441	TT	CC	1947066290

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_192296_8285	NW_004521128.1	Scaffold8127	8285	TT	CC	1947066295
SNP_P4_192297_8307	NW_004521128.1	Scaffold8127	8307	TT	CC	1947066297
SNP_P4_192298_563	NW_004521130.1	Scaffold8131	563	GG	CC	1947066299
SNP_P4_192299_725	NW_004521130.1	Scaffold8131	725	AA	TT	1947066301
SNP_P4_192300_2729	NW_004521130.1	Scaffold8131	2729	TT	CC	1947066303
SNP_P4_192301_2774	NW_004521130.1	Scaffold8131	2774	AA	TT	1947066305
SNP_P4_192303_70	NW_004521132.1	Scaffold8135	70	GG	AA	1947066307
SNP_P4_192304_86	NW_004521132.1	Scaffold8135	86	TT	CC	1947066309
SNP_P4_192305_342	NW_004521132.1	Scaffold8135	342	AA	GG	1947066311
SNP_P4_192306_684	NW_004521132.1	Scaffold8135	684	GG	AA	1947066313
SNP_P4_192307_704	NW_004521134.1	Scaffold8140	704	CC	TT	1947066315
SNP_P4_192308_1785	NW_004521134.1	Scaffold8140	1785	GG	AA	1947066317
SNP_P4_192309_1811	NW_004521134.1	Scaffold8140	1811	TT	CC	1947066319
SNP_P4_192310_1729	NW_004521136.1	Scaffold8143	1729	TT	GG	1947066321
SNP_P4_192311_1732	NW_004521136.1	Scaffold8143	1732	TT	CC	1947066323
SNP_P4_192312_882	NW_004521138.1	Scaffold8146	882	AA	GG	1947066325
SNP_P4_192313_1826	NW_004521141.1	Scaffold8154	1826	AA	TT	1947066327
SNP_P4_192314_1835	NW_004521141.1	Scaffold8154	1835	TT	AA	1947066329
SNP_P4_192315_1858	NW_004521141.1	Scaffold8154	1858	TT	AA	1947066331
SNP_P4_192316_1871	NW_004521141.1	Scaffold8154	1871	AA	GG	1947066333
SNP_P4_192317_1887	NW_004521141.1	Scaffold8154	1887	GG	AA	1947066335
SNP_P4_192318_1896	NW_004521141.1	Scaffold8154	1896	CC	GG	1947066337
SNP_P4_192319_1898	NW_004521141.1	Scaffold8154	1898	AA	GG	1947066339
SNP_P4_192320_408	NW_004521146.1	Scaffold8162	408	GG	TT	1947066341
SNP_P4_192321_474	NW_004521146.1	Scaffold8162	474	GG	AA	1947066343
SNP_P4_192322_493	NW_004521146.1	Scaffold8162	493	AA	TT	1947066345
SNP_P4_192323_495	NW_004521146.1	Scaffold8162	495	CC	TT	1947066347
SNP_P4_192324_591	NW_004521146.1	Scaffold8162	591	CC	TT	1947066349
SNP_P4_192326_915	NW_004521146.1	Scaffold8162	915	AA	GG	1947066351
SNP_P4_192327_965	NW_004521146.1	Scaffold8162	965	GG	TT	1947066353
SNP_P4_192328_1064	NW_004521146.1	Scaffold8162	1064	AA	GG	1947066355
SNP_P4_192329_210	NW_004521147.1	Scaffold8163	210	TT	CC	1947066357
SNP_P4_192330_234	NW_004521147.1	Scaffold8163	234	GG	AA	1947066359
SNP_P4_192331_291	NW_004521147.1	Scaffold8163	291	GG	AA	1947066361
SNP_P4_192332_300	NW_004521147.1	Scaffold8163	300	TT	AA	1947066363
SNP_P4_192333_369	NW_004521147.1	Scaffold8163	369	AA	GG	1947066365
SNP_P4_192334_398	NW_004521147.1	Scaffold8163	398	GG	AA	1947066367
SNP_P4_192335_619	NW_004521147.1	Scaffold8163	619	AA	GG	1947066369
SNP_P4_192336_632	NW_004521147.1	Scaffold8163	632	TT	CC	1947066371
SNP_P4_192337_638	NW_004521147.1	Scaffold8163	638	TT	CC	1947066373
SNP_P4_192338_665	NW_004521147.1	Scaffold8163	665	GG	AA	1947066375

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_192340_752	NW_004521147.1	Scaffold8163	752	TT	CC	1947066379
SNP_P4_192341_851	NW_004521147.1	Scaffold8163	851	GG	AA	1947066381
SNP_P4_192342_681	NW_004521148.1	Scaffold8164	681	TT	GG	1947066383
SNP_P4_192343_2470	NW_004521148.1	Scaffold8164	2470	CC	TT	1947066385
SNP_P4_192344_2685	NW_004521148.1	Scaffold8164	2685	GG	TT	1947066387
SNP_P4_192345_2695	NW_004521148.1	Scaffold8164	2695	AA	TT	1947066389
SNP_P4_192346_2699	NW_004521148.1	Scaffold8164	2699	TT	CC	1947066391
SNP_P4_192347_2721	NW_004521148.1	Scaffold8164	2721	CC	GG	1947066393
SNP_P4_192348_2743	NW_004521148.1	Scaffold8164	2743	GG	TT	1947066395
SNP_P4_192349_2759	NW_004521148.1	Scaffold8164	2759	GG	AA	1947066397
SNP_P4_192350_2764	NW_004521148.1	Scaffold8164	2764	CC	TT	1947066399
SNP_P4_192351_2773	NW_004521148.1	Scaffold8164	2773	CC	GG	1947066401
SNP_P4_192352_2776	NW_004521148.1	Scaffold8164	2776	TT	CC	1947066403
SNP_P4_192353_3483	NW_004521148.1	Scaffold8164	3483	AA	TT	1947066405
SNP_P4_192354_4558	NW_004521148.1	Scaffold8164	4558	GG	TT	1947066407
SNP_P4_192355_4563	NW_004521148.1	Scaffold8164	4563	AA	TT	1947066409
SNP_P4_192356_4565	NW_004521148.1	Scaffold8164	4565	AA	TT	1947066411
SNP_P4_192357_4630	NW_004521148.1	Scaffold8164	4630	AA	CC	1947066413
SNP_P4_192358_64	NW_004521150.1	Scaffold8168	64	AA	CC	1947066415
SNP_P4_192359_733	NW_004521158.1	Scaffold8181	733	AA	TT	1947066417
SNP_P4_192360_451	NW_004521159.1	Scaffold8182	451	AA	TT	1947066419
SNP_P4_192362_1245	NW_004521159.1	Scaffold8182	1245	TT	CC	1947066421
SNP_P4_192363_1271	NW_004521159.1	Scaffold8182	1271	TT	GG	1947066423
SNP_P4_192364_1563	NW_004521159.1	Scaffold8182	1563	CC	GG	1947066425
SNP_P4_192365_1586	NW_004521159.1	Scaffold8182	1586	TT	CC	1947066427
SNP_P4_192366_1786	NW_004521159.1	Scaffold8182	1786	AA	CC	1947066429
SNP_P4_192367_486	NW_004521161.1	Scaffold8185	486	TT	CC	1947066431
SNP_P4_192368_531	NW_004521161.1	Scaffold8185	531	TT	GG	1947066433
SNP_P4_192369_591	NW_004521161.1	Scaffold8185	591	AA	TT	1947066435
SNP_P4_192370_598	NW_004521161.1	Scaffold8185	598	TT	CC	1947066437
SNP_P4_192371_617	NW_004521161.1	Scaffold8185	617	TT	CC	1947066439
SNP_P4_192372_661	NW_004521161.1	Scaffold8185	661	AA	GG	1947066441
SNP_P4_192373_1099	NW_004521162.1	Scaffold8186	1099	AA	TT	1947066443
SNP_P4_192374_1116	NW_004521162.1	Scaffold8186	1116	TT	CC	1947066445
SNP_P4_192375_1130	NW_004521162.1	Scaffold8186	1130	CC	TT	1947066447
SNP_P4_192376_1145	NW_004521162.1	Scaffold8186	1145	TT	CC	1947066449
SNP_P4_192377_522	NW_004521167.1	Scaffold8196	522	AA	TT	1947066451
SNP_P4_192378_1076	NW_004521167.1	Scaffold8196	1076	CC	TT	1947066453
SNP_P4_192379_426	NW_004521169.1	Scaffold8200	426	TT	AA	1947066455
SNP_P4_192380_431	NW_004521169.1	Scaffold8200	431	TT	CC	1947066457
SNP_P4_192381_434	NW_004521169.1	Scaffold8200	434	GG	AA	1947066460

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_192383_456	NW_004521169.1	Scaffold8200	456	CC	TT	1947066464
SNP_P4_192385_742	NW_004521169.1	Scaffold8200	742	GG	AA	1947066466
SNP_P4_192386_1011	NW_004521169.1	Scaffold8200	1011	CC	TT	1947066468
SNP_P4_192388_361	NW_004521173.1	Scaffold8207	361	CC	TT	1947066470
SNP_P4_192389_440	NW_004521173.1	Scaffold8207	440	AA	TT	1947066472
SNP_P4_192390_636	NW_004521173.1	Scaffold8207	636	AA	GG	1947066474
SNP_P4_192391_700	NW_004521173.1	Scaffold8207	700	GG	AA	1947066476
SNP_P4_192392_707	NW_004521173.1	Scaffold8207	707	GG	AA	1947066478
SNP_P4_192393_977	NW_004521173.1	Scaffold8207	977	AA	GG	1947066480
SNP_P4_192394_1045	NW_004521173.1	Scaffold8207	1045	AA	CC	1947066482
SNP_P4_192395_751	NW_004521174.1	Scaffold8210	751	TT	GG	1947066484
SNP_P4_192396_1062	NW_004521174.1	Scaffold8210	1062	AA	GG	1947066486
SNP_P4_192397_1134	NW_004521174.1	Scaffold8210	1134	TT	GG	1947066488
SNP_P4_192398_968	NW_004521178.1	Scaffold8219	968	AA	CC	1947066490
SNP_P4_192399_362	NW_004521183.1	Scaffold8226	362	GG	AA	1947066492
SNP_P4_192401_6518	NW_004521183.1	Scaffold8226	6518	TT	CC	1947066494
SNP_P4_192402_478	NW_004521186.1	Scaffold8232	478	CC	TT	1947066496
SNP_P4_192403_1180	NW_004521186.1	Scaffold8232	1180	AA	CC	1947066498
SNP_P4_192404_1404	NW_004521186.1	Scaffold8232	1404	CC	TT	1947066500
SNP_P4_192405_1424	NW_004521186.1	Scaffold8232	1424	TT	CC	1947066502
SNP_P4_192406_247	NW_004521190.1	Scaffold8238	247	AA	GG	1947066504
SNP_P4_192407_2178	NW_004521193.1	Scaffold8241	2178	AA	TT	1947066506
SNP_P4_192408_2486	NW_004521193.1	Scaffold8241	2486	AA	TT	1947066508
SNP_P4_192409_2525	NW_004521193.1	Scaffold8241	2525	AA	TT	1947066510
SNP_P4_192410_2834	NW_004521193.1	Scaffold8241	2834	AA	TT	1947066512
SNP_P4_192411_393	NW_004521195.1	Scaffold8244	393	GG	CC	1947066514
SNP_P4_192412_402	NW_004521195.1	Scaffold8244	402	GG	AA	1947066516
SNP_P4_192413_403	NW_004521195.1	Scaffold8244	403	GG	TT	1947066518
SNP_P4_192414_425	NW_004521195.1	Scaffold8244	425	GG	AA	1947066520
SNP_P4_192415_516	NW_004521195.1	Scaffold8244	516	TT	AA	1947066522
SNP_P4_192416_780	NW_004521195.1	Scaffold8244	780	GG	AA	1947066524
SNP_P4_192417_811	NW_004521195.1	Scaffold8244	811	TT	CC	1947066526
SNP_P4_192418_623	NW_004521197.1	Scaffold8247	623	TT	CC	1947066528
SNP_P4_192419_908	NW_004521197.1	Scaffold8247	908	CC	GG	1947066530
SNP_P4_192420_616	NW_004521198.1	Scaffold8248	616	AA	TT	1947066532
SNP_P4_192421_3415	NW_004521201.1	Scaffold8253	3415	GG	CC	1947066534
SNP_P4_192422_3416	NW_004521201.1	Scaffold8253	3416	AA	CC	1947066536
SNP_P4_192423_3695	NW_004521201.1	Scaffold8253	3695	GG	AA	1947066538
SNP_P4_192424_19980	NW_004521205.1	Scaffold8259	19980	TT	CC	1947066540
SNP_P4_192425_20439	NW_004521205.1	Scaffold8259	20439	AA	GG	1947066542
SNP_P4_192426_20465	NW_004521205.1	Scaffold8259	20465	TT	CC	1947066544

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_192427_20518	NW_004521205.1	Scaffold8259	20518	CC	AA	1947066546
SNP_P4_192428_58	NW_004521214.1	Scaffold8274	58	GG	AA	1947066548
SNP_P4_192429_64	NW_004521214.1	Scaffold8274	64	AA	GG	1947066550
SNP_P4_192430_123	NW_004521214.1	Scaffold8274	123	AA	GG	1947066552
SNP_P4_192431_124	NW_004521214.1	Scaffold8274	124	AA	TT	1947066554
SNP_P4_192432_256	NW_004521215.1	Scaffold8275	256	TT	AA	1947066556
SNP_P4_192433_263	NW_004521215.1	Scaffold8275	263	GG	AA	1947066558
SNP_P4_192434_391	NW_004521215.1	Scaffold8275	391	TT	GG	1947066560
SNP_P4_192435_483	NW_004521215.1	Scaffold8275	483	GG	CC	1947066562
SNP_P4_192436_510	NW_004521215.1	Scaffold8275	510	TT	CC	1947066564
SNP_P4_192437_1342	NW_004521219.1	Scaffold8283	1342	CC	AA	1947066566
SNP_P4_192438_1450	NW_004521219.1	Scaffold8283	1450	TT	GG	1947066568
SNP_P4_192439_1659	NW_004521219.1	Scaffold8283	1659	AA	GG	1947066570
SNP_P4_192440_346	NW_004521221.1	Scaffold8292	346	TT	CC	1947066572
SNP_P4_192441_242	NW_004521222.1	Scaffold8294	242	GG	AA	1947066574
SNP_P4_192442_360	NW_004521222.1	Scaffold8294	360	GG	AA	1947066576
SNP_P4_192443_374	NW_004521222.1	Scaffold8294	374	AA	CC	1947066578
SNP_P4_192444_536	NW_004521222.1	Scaffold8294	536	CC	AA	1947066580
SNP_P4_192445_729	NW_004521222.1	Scaffold8294	729	AA	CC	1947066582
SNP_P4_192446_31	NW_004521223.1	Scaffold8297	31	AA	GG	1947066584
SNP_P4_192447_61	NW_004521223.1	Scaffold8297	61	GG	TT	1947066586
SNP_P4_192448_62	NW_004521223.1	Scaffold8297	62	AA	CC	1947066588
SNP_P4_192449_63	NW_004521223.1	Scaffold8297	63	AA	TT	1947066590
SNP_P4_192450_79	NW_004521223.1	Scaffold8297	79	TT	GG	1947066592
SNP_P4_192452_161	NW_004521223.1	Scaffold8297	161	TT	CC	1947066594
SNP_P4_192453_162	NW_004521223.1	Scaffold8297	162	GG	AA	1947066596
SNP_P4_192454_241	NW_004521223.1	Scaffold8297	241	GG	CC	1947066598
SNP_P4_192455_290	NW_004521223.1	Scaffold8297	290	AA	CC	1947066600
SNP_P4_192457_425	NW_004521223.1	Scaffold8297	425	GG	AA	1947066602
SNP_P4_192458_1454	NW_004521223.1	Scaffold8297	1454	CC	TT	1947066604
SNP_P4_192459_1494	NW_004521223.1	Scaffold8297	1494	GG	AA	1947066606
SNP_P4_192460_1919	NW_004521223.1	Scaffold8297	1919	CC	AA	1947066608
SNP_P4_192461_1923	NW_004521223.1	Scaffold8297	1923	TT	AA	1947066610
SNP_P4_192462_1924	NW_004521223.1	Scaffold8297	1924	TT	AA	1947066612
SNP_P4_192463_1997	NW_004521223.1	Scaffold8297	1997	CC	AA	1947066614
SNP_P4_192464_2805	NW_004521223.1	Scaffold8297	2805	AA	TT	1947066616
SNP_P4_192465_2935	NW_004521223.1	Scaffold8297	2935	CC	AA	1947066618
SNP_P4_192466_3191	NW_004521223.1	Scaffold8297	3191	GG	AA	1947066620
SNP_P4_192467_3281	NW_004521223.1	Scaffold8297	3281	TT	CC	1947066622
SNP_P4_192468_3291	NW_004521223.1	Scaffold8297	3291	GG	AA	1947066624
SNP_P4_192469_3316	NW_004521223.1	Scaffold8297	3316	CC	AA	1947066626
SNP_P4_192470_3317	NW_004521223.1	Scaffold8297	3317	TT	AA	1947066628

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_192472_6079	NW_004521224.1	Scaffold8301	6079	GG	AA	1947066630
SNP_P4_192473_6608	NW_004521224.1	Scaffold8301	6608	GG	TT	1947066632
SNP_P4_192474_6624	NW_004521224.1	Scaffold8301	6624	AA	TT	1947066634
SNP_P4_192475_6689	NW_004521224.1	Scaffold8301	6689	CC	TT	1947066639
SNP_P4_192476_6762	NW_004521224.1	Scaffold8301	6762	TT	CC	1947066641
SNP_P4_192477_480	NW_004521227.1	Scaffold8305	480	TT	GG	1947066643
SNP_P4_192478_64	NW_004521228.1	Scaffold8306	64	GG	AA	1947066645
SNP_P4_192479_63	NW_004521231.1	Scaffold8309	63	CC	TT	1947066647
SNP_P4_192480_88	NW_004521231.1	Scaffold8309	88	CC	GG	1947066649
SNP_P4_192481_314	NW_004521231.1	Scaffold8309	314	AA	CC	1947066651
SNP_P4_192482_400	NW_004521231.1	Scaffold8309	400	GG	AA	1947066653
SNP_P4_192483_88	NW_004521233.1	Scaffold8313	88	AA	GG	1947066655
SNP_P4_192484_377	NW_004521233.1	Scaffold8313	377	AA	GG	1947066657
SNP_P4_192485_164	NW_004521234.1	Scaffold8314	164	GG	AA	1947066659
SNP_P4_192487_402	NW_004521234.1	Scaffold8314	402	AA	TT	1947066661
SNP_P4_192488_408	NW_004521234.1	Scaffold8314	408	TT	CC	1947066663
SNP_P4_192489_416	NW_004521234.1	Scaffold8314	416	AA	TT	1947066665
SNP_P4_192490_542	NW_004521234.1	Scaffold8314	542	TT	CC	1947066667
SNP_P4_192491_614	NW_004521234.1	Scaffold8314	614	AA	TT	1947066669
SNP_P4_192492_637	NW_004521234.1	Scaffold8314	637	GG	AA	1947066671
SNP_P4_192493_703	NW_004521234.1	Scaffold8314	703	AA	GG	1947066673
SNP_P4_192494_718	NW_004521234.1	Scaffold8314	718	GG	AA	1947066675
SNP_P4_192495_849	NW_004521234.1	Scaffold8314	849	AA	CC	1947066677
SNP_P4_192496_856	NW_004521234.1	Scaffold8314	856	AA	GG	1947066679
SNP_P4_192499_914	NW_004521234.1	Scaffold8314	914	AA	GG	1947066681
SNP_P4_192500_930	NW_004521234.1	Scaffold8314	930	GG	AA	1947066683
SNP_P4_192501_951	NW_004521234.1	Scaffold8314	951	TT	CC	1947066685
SNP_P4_192502_958	NW_004521234.1	Scaffold8314	958	GG	CC	1947066687
SNP_P4_192503_972	NW_004521234.1	Scaffold8314	972	GG	AA	1947066689
SNP_P4_192504_1019	NW_004521234.1	Scaffold8314	1019	AA	GG	1947066691
SNP_P4_192505_1107	NW_004521234.1	Scaffold8314	1107	TT	AA	1947066693
SNP_P4_192506_1177	NW_004521234.1	Scaffold8314	1177	TT	GG	1947066695
SNP_P4_192507_1212	NW_004521234.1	Scaffold8314	1212	CC	AA	1947066697
SNP_P4_192508_1238	NW_004521234.1	Scaffold8314	1238	TT	GG	1947066699
SNP_P4_192510_1355	NW_004521234.1	Scaffold8314	1355	CC	TT	1947066702
SNP_P4_192511_1621	NW_004521234.1	Scaffold8314	1621	GG	AA	1947066704
SNP_P4_192512_2269	NW_004521234.1	Scaffold8314	2269	TT	AA	1947066706
SNP_P4_192513_17425	NW_004521235.1	Scaffold8315	17425	CC	GG	1947066708
SNP_P4_192514_17533	NW_004521235.1	Scaffold8315	17533	TT	CC	1947066710
SNP_P4_192516_17831	NW_004521235.1	Scaffold8315	17831	TT	CC	1947066712
SNP_P4_192517_17908	NW_004521235.1	Scaffold8315	17908	AA	GG	1947066714
SNP_P4_192518_18003	NW_004521235.1	Scaffold8315	18003	GG	AA	1947066716

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_192520_18316	NW_004521235.1	Scaffold8315	18316	AA	GG	1947066720
SNP_P4_192521_18384	NW_004521235.1	Scaffold8315	18384	TT	GG	1947066722
SNP_P4_192522_18397	NW_004521235.1	Scaffold8315	18397	AA	CC	1947066724
SNP_P4_192523_18398	NW_004521235.1	Scaffold8315	18398	AA	TT	1947066726
SNP_P4_192524_18408	NW_004521235.1	Scaffold8315	18408	CC	GG	1947066728
SNP_P4_192525_18573	NW_004521235.1	Scaffold8315	18573	AA	GG	1947066730
SNP_P4_192526_18957	NW_004521235.1	Scaffold8315	18957	AA	GG	1947066732
SNP_P4_192527_18964	NW_004521235.1	Scaffold8315	18964	CC	AA	1947066734
SNP_P4_192529_19233	NW_004521235.1	Scaffold8315	19233	AA	TT	1947066736
SNP_P4_192530_19284	NW_004521235.1	Scaffold8315	19284	AA	CC	1947066738
SNP_P4_192531_19625	NW_004521235.1	Scaffold8315	19625	CC	TT	1947066740
SNP_P4_192532_19915	NW_004521235.1	Scaffold8315	19915	CC	TT	1947066742
SNP_P4_192533_20215	NW_004521235.1	Scaffold8315	20215	CC	AA	1947066744
SNP_P4_192535_20440	NW_004521235.1	Scaffold8315	20440	GG	TT	1947066746
SNP_P4_192537_20517	NW_004521235.1	Scaffold8315	20517	TT	CC	1947066748
SNP_P4_192538_20573	NW_004521235.1	Scaffold8315	20573	TT	GG	1947066750
SNP_P4_192539_20645	NW_004521235.1	Scaffold8315	20645	TT	GG	1947066752
SNP_P4_192540_20711	NW_004521235.1	Scaffold8315	20711	CC	TT	1947066754
SNP_P4_192541_20827	NW_004521235.1	Scaffold8315	20827	TT	GG	1947066756
SNP_P4_192542_20888	NW_004521235.1	Scaffold8315	20888	GG	AA	1947066758
SNP_P4_192543_20895	NW_004521235.1	Scaffold8315	20895	AA	CC	1947066759
SNP_P4_192544_64	NW_004521241.1	Scaffold8325	64	AA	TT	1947066761
SNP_P4_192545_93	NW_004521241.1	Scaffold8325	93	AA	CC	1947066763
SNP_P4_192546_465	NW_004521245.1	Scaffold8332	465	TT	AA	1947066765
SNP_P4_192547_900	NW_004521245.1	Scaffold8332	900	TT	CC	1947066767
SNP_P4_192548_1045	NW_004521245.1	Scaffold8332	1045	GG	TT	1947066769
SNP_P4_192549_1400	NW_004521245.1	Scaffold8332	1400	AA	GG	1947066771
SNP_P4_192550_440	NW_004521246.1	Scaffold8333	440	AA	TT	1947066773
SNP_P4_192551_454	NW_004521250.1	Scaffold8340	454	GG	TT	1947066775
SNP_P4_192552_483	NW_004521250.1	Scaffold8340	483	CC	TT	1947066777
SNP_P4_192553_659	NW_004521250.1	Scaffold8340	659	AA	CC	1947066779
SNP_P4_192554_89	NW_004521257.1	Scaffold8357	89	AA	GG	1947066781
SNP_P4_192555_342	NW_004521257.1	Scaffold8357	342	TT	AA	1947066783
SNP_P4_192556_412	NW_004521257.1	Scaffold8357	412	GG	TT	1947066785
SNP_P4_192557_467	NW_004521257.1	Scaffold8357	467	CC	TT	1947066787
SNP_P4_192558_468	NW_004521257.1	Scaffold8357	468	AA	CC	1947066789
SNP_P4_192559_814	NW_004521257.1	Scaffold8357	814	GG	AA	1947066791
SNP_P4_192560_837	NW_004521257.1	Scaffold8357	837	CC	TT	1947066793
SNP_P4_192561_852	NW_004521257.1	Scaffold8357	852	CC	AA	1947066795
SNP_P4_192562_856	NW_004521257.1	Scaffold8357	856	GG	AA	1947066797
SNP_P4_192563_504	NW_004521261.1	Scaffold8366	504	CC	TT	1947066799

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_192565_503	NW_004521263.1	Scaffold8368	503	AA	CC	1947066803
SNP_P4_192566_619	NW_004521263.1	Scaffold8368	619	AA	GG	1947066805
SNP_P4_192567_707	NW_004521263.1	Scaffold8368	707	AA	GG	1947066807
SNP_P4_192568_718	NW_004521263.1	Scaffold8368	718	AA	GG	1947066809
SNP_P4_192569_872	NW_004521263.1	Scaffold8368	872	GG	AA	1947066811
SNP_P4_192570_976	NW_004521263.1	Scaffold8368	976	AA	GG	1947066813
SNP_P4_192571_721	NW_004521267.1	Scaffold8377	721	TT	GG	1947066815
SNP_P4_192572_723	NW_004521267.1	Scaffold8377	723	GG	AA	1947066817
SNP_P4_192573_1120	NW_004521267.1	Scaffold8377	1120	GG	TT	1947066819
SNP_P4_192574_876	NW_004521268.1	Scaffold8378	876	GG	AA	1947066821
SNP_P4_192575_912	NW_004521268.1	Scaffold8378	912	GG	AA	1947066823
SNP_P4_192576_984	NW_004521268.1	Scaffold8378	984	GG	AA	1947066825
SNP_P4_192577_1005	NW_004521268.1	Scaffold8378	1005	AA	TT	1947066827
SNP_P4_192579_1755	NW_004521268.1	Scaffold8378	1755	CC	TT	1947066829
SNP_P4_192580_1832	NW_004521268.1	Scaffold8378	1832	GG	AA	1947066831
SNP_P4_192581_1926	NW_004521268.1	Scaffold8378	1926	TT	CC	1947066833
SNP_P4_192582_1951	NW_004521268.1	Scaffold8378	1951	AA	CC	1947066835
SNP_P4_192584_2016	NW_004521268.1	Scaffold8378	2016	AA	GG	1947066837
SNP_P4_192585_2067	NW_004521268.1	Scaffold8378	2067	TT	CC	1947066839
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SNP_P4_192588_537	NW_004521270.1	Scaffold8380	537	GG	AA	1947066843
SNP_P4_192589_546	NW_004521270.1	Scaffold8380	546	AA	GG	1947066845
SNP_P4_192590_595	NW_004521270.1	Scaffold8380	595	AA	CC	1947066847
SNP_P4_192591_620	NW_004521270.1	Scaffold8380	620	CC	GG	1947066849
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SNP_P4_192594_674	NW_004521270.1	Scaffold8380	674	TT	AA	1947066855
SNP_P4_192595_719	NW_004521270.1	Scaffold8380	719	GG	CC	1947066857
SNP_P4_192596_896	NW_004521270.1	Scaffold8380	896	GG	TT	1947066860
SNP_P4_192597_933	NW_004521270.1	Scaffold8380	933	AA	GG	1947066862
SNP_P4_192598_954	NW_004521270.1	Scaffold8380	954	GG	AA	1947066864
SNP_P4_192599_976	NW_004521270.1	Scaffold8380	976	GG	AA	1947066866
SNP_P4_192600_1043	NW_004521270.1	Scaffold8380	1043	AA	TT	1947066868
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SNP_P4_192604_141	NW_004521273.1	Scaffold8385	141	TT	GG	1947066873
SNP_P4_192605_146	NW_004521273.1	Scaffold8385	146	GG	CC	1947066874
SNP_P4_192607_276	NW_004521273.1	Scaffold8385	276	TT	AA	1947066875
SNP_P4_192608_279	NW_004521273.1	Scaffold8385	279	TT	CC	1947066876
SNP_P4_192609_373	NW_004521273.1	Scaffold8385	373	CC	TT	1947066877
SNP_P4_192610_396	NW_004521273.1	Scaffold8385	396	CC	TT	1947066879

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_192613_580	NW_004521273.1	Scaffold8385	580	GG	TT	1947066884
SNP_P4_192614_687	NW_004521276.1	Scaffold8393	687	GG	AA	1947066885
SNP_P4_192615_1094	NW_004521276.1	Scaffold8393	1094	TT	AA	1947066886
SNP_P4_192616_1134	NW_004521276.1	Scaffold8393	1134	CC	AA	1947066887
SNP_P4_192617_1323	NW_004521276.1	Scaffold8393	1323	AA	GG	1947066888
SNP_P4_192618_1440	NW_004521276.1	Scaffold8393	1440	CC	AA	1947066889
SNP_P4_192619_2653	NW_004521276.1	Scaffold8393	2653	AA	CC	1947066890
SNP_P4_192620_692	NW_004521281.1	Scaffold8403	692	CC	TT	1947066891
SNP_P4_192621_965	NW_004521283.1	Scaffold8406	965	CC	AA	1947066892
SNP_P4_192622_1332	NW_004521283.1	Scaffold8406	1332	AA	GG	1947066893
SNP_P4_192624_1010	NW_004521284.1	Scaffold8412	1010	AA	TT	1947066894
SNP_P4_192625_1225	NW_004521284.1	Scaffold8412	1225	AA	GG	1947066895
SNP_P4_192626_1308	NW_004521284.1	Scaffold8412	1308	GG	TT	1947066896
SNP_P4_192627_403	NW_004521286.1	Scaffold8421	403	AA	TT	1947066897
SNP_P4_192628_1265	NW_004521292.1	Scaffold8442	1265	TT	AA	1947066898
SNP_P4_192629_1306	NW_004521292.1	Scaffold8442	1306	GG	AA	1947066899
SNP_P4_192630_1315	NW_004521292.1	Scaffold8442	1315	AA	GG	1947066900
SNP_P4_192632_1779	NW_004521292.1	Scaffold8442	1779	TT	AA	1947066901
SNP_P4_192633_1871	NW_004521292.1	Scaffold8442	1871	TT	CC	1947066902
SNP_P4_192634_1948	NW_004521292.1	Scaffold8442	1948	GG	AA	1947066903
SNP_P4_192635_1982	NW_004521292.1	Scaffold8442	1982	AA	CC	1947066904
SNP_P4_192636_2738	NW_004521292.1	Scaffold8442	2738	TT	GG	1947066905
SNP_P4_192637_2893	NW_004521292.1	Scaffold8442	2893	AA	TT	1947066906
SNP_P4_192638_2935	NW_004521292.1	Scaffold8442	2935	TT	CC	1947066907
SNP_P4_192639_4874	NW_004521294.1	Scaffold8445	4874	AA	CC	1947066908
SNP_P4_192640_4920	NW_004521294.1	Scaffold8445	4920	AA	CC	1947066909
SNP_P4_192641_4944	NW_004521294.1	Scaffold8445	4944	TT	CC	1947066910
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SNP_P4_192643_5129	NW_004521294.1	Scaffold8445	5129	TT	GG	1947066912
SNP_P4_192644_5148	NW_004521294.1	Scaffold8445	5148	CC	TT	1947066913
SNP_P4_192645_5274	NW_004521294.1	Scaffold8445	5274	GG	CC	1947066914
SNP_P4_192646_5389	NW_004521294.1	Scaffold8445	5389	CC	TT	1947066915
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SNP_P4_192651_5780	NW_004521294.1	Scaffold8445	5780	AA	TT	1947066921
SNP_P4_192652_5815	NW_004521294.1	Scaffold8445	5815	CC	AA	1947066923
SNP_P4_192653_5971	NW_004521294.1	Scaffold8445	5971	TT	AA	1947066925
SNP_P4_192654_6044	NW_004521294.1	Scaffold8445	6044	CC	AA	1947066927
SNP_P4_192655_6065	NW_004521294.1	Scaffold8445	6065	AA	CC	1947066929

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_192656_6092	NW_004521294.1	Scaffold8445	6092	AA	TT	1947066931
SNP_P4_192657_6186	NW_004521294.1	Scaffold8445	6186	CC	AA	1947066933
SNP_P4_192658_360	NW_004521297.1	Scaffold8455	360	TT	AA	1947066935
SNP_P4_192659_384	NW_004521297.1	Scaffold8455	384	GG	AA	1947066937
SNP_P4_192660_667	NW_004521297.1	Scaffold8455	667	CC	TT	1947066939
SNP_P4_192661_713	NW_004521297.1	Scaffold8455	713	GG	AA	1947066941
SNP_P4_192662_714	NW_004521297.1	Scaffold8455	714	GG	AA	1947066943
SNP_P4_192663_731	NW_004521297.1	Scaffold8455	731	GG	TT	1947066945
SNP_P4_192664_2731	NW_004521301.1	Scaffold8461	2731	AA	TT	1947066947
SNP_P4_192665_2861	NW_004521301.1	Scaffold8461	2861	TT	AA	1947066949
SNP_P4_192666_772	NW_004521305.1	Scaffold8468	772	AA	GG	1947066951
SNP_P4_192667_64	NW_004521306.1	Scaffold8469	64	AA	GG	1947066953
SNP_P4_192668_220	NW_004521306.1	Scaffold8469	220	GG	AA	1947066955
SNP_P4_192669_227	NW_004521306.1	Scaffold8469	227	AA	GG	1947066957
SNP_P4_192670_375	NW_004521306.1	Scaffold8469	375	GG	CC	1947066959
SNP_P4_192671_468	NW_004521306.1	Scaffold8469	468	GG	CC	1947066961
SNP_P4_192672_354	NW_004521307.1	Scaffold8471	354	GG	TT	1947066963
SNP_P4_192673_64	NW_004521313.1	Scaffold8479	64	AA	GG	1947066965
SNP_P4_192674_116	NW_004521313.1	Scaffold8479	116	GG	CC	1947066967
SNP_P4_192675_147	NW_004521313.1	Scaffold8479	147	CC	TT	1947066969
SNP_P4_192676_160	NW_004521313.1	Scaffold8479	160	TT	AA	1947066971
SNP_P4_192677_243	NW_004521313.1	Scaffold8479	243	CC	TT	1947066973
SNP_P4_192678_326	NW_004521313.1	Scaffold8479	326	AA	TT	1947066975
SNP_P4_192679_344	NW_004521313.1	Scaffold8479	344	GG	AA	1947066977
SNP_P4_192680_352	NW_004521313.1	Scaffold8479	352	CC	TT	1947066979
SNP_P4_192681_510	NW_004521313.1	Scaffold8479	510	GG	CC	1947066981
SNP_P4_192682_560	NW_004521313.1	Scaffold8479	560	AA	GG	1947066983
SNP_P4_192683_696	NW_004521313.1	Scaffold8479	696	AA	CC	1947066985
SNP_P4_192684_706	NW_004521313.1	Scaffold8479	706	CC	TT	1947066987
SNP_P4_192686_840	NW_004521313.1	Scaffold8479	840	AA	TT	1947066989
SNP_P4_192687_900	NW_004521313.1	Scaffold8479	900	TT	GG	1947066991
SNP_P4_192688_972	NW_004521313.1	Scaffold8479	972	CC	AA	1947066993
SNP_P4_192690_1108	NW_004521313.1	Scaffold8479	1108	CC	TT	1947066995
SNP_P4_192691_1110	NW_004521313.1	Scaffold8479	1110	CC	TT	1947066997
SNP_P4_192692_1170	NW_004521313.1	Scaffold8479	1170	CC	TT	1947066999
SNP_P4_192693_1371	NW_004521313.1	Scaffold8479	1371	TT	AA	1947067001
SNP_P4_192694_1601	NW_004521313.1	Scaffold8479	1601	GG	AA	1947067003
SNP_P4_192695_1602	NW_004521313.1	Scaffold8479	1602	TT	AA	1947067005
SNP_P4_192696_1603	NW_004521313.1	Scaffold8479	1603	TT	AA	1947067007
SNP_P4_192697_1706	NW_004521313.1	Scaffold8479	1706	TT	CC	1947067009
SNP_P4_192698_1776	NW_004521313.1	Scaffold8479	1776	CC	TT	1947067011
SNP_P4_192699_1796	NW_004521313.1	Scaffold8479	1796	AA	GG	1947067013

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_192700_17744	NW_004521315.1	Scaffold8483	17744	CC	TT	1947067015
SNP_P4_192701_645	NW_004521316.1	Scaffold8487	645	TT	CC	1947067017
SNP_P4_192702_4027	NW_004521320.1	Scaffold8493	4027	GG	AA	1947067019
SNP_P4_192703_4114	NW_004521320.1	Scaffold8493	4114	TT	CC	1947067021
SNP_P4_192704_4122	NW_004521320.1	Scaffold8493	4122	TT	CC	1947067023
SNP_P4_192705_4124	NW_004521320.1	Scaffold8493	4124	GG	AA	1947067025
SNP_P4_192706_4126	NW_004521320.1	Scaffold8493	4126	CC	AA	1947067027
SNP_P4_192707_4127	NW_004521320.1	Scaffold8493	4127	AA	TT	1947067029
SNP_P4_192708_4139	NW_004521320.1	Scaffold8493	4139	GG	AA	1947067031
SNP_P4_192709_4170	NW_004521320.1	Scaffold8493	4170	GG	AA	1947067033
SNP_P4_192710_4173	NW_004521320.1	Scaffold8493	4173	GG	TT	1947067035
SNP_P4_192711_4175	NW_004521320.1	Scaffold8493	4175	AA	GG	1947067037
SNP_P4_192712_4181	NW_004521320.1	Scaffold8493	4181	GG	CC	1947067039
SNP_P4_192713_4183	NW_004521320.1	Scaffold8493	4183	TT	CC	1947067041
SNP_P4_192714_4190	NW_004521320.1	Scaffold8493	4190	GG	AA	1947067043
SNP_P4_192715_5858	NW_004521320.1	Scaffold8493	5858	TT	AA	1947067045
SNP_P4_192716_7150	NW_004521320.1	Scaffold8493	7150	TT	CC	1947067047
SNP_P4_192717_7657	NW_004521320.1	Scaffold8493	7657	AA	TT	1947067049
SNP_P4_192718_8321	NW_004521320.1	Scaffold8493	8321	CC	TT	1947067051
SNP_P4_192720_9834	NW_004521320.1	Scaffold8493	9834	AA	CC	1947067054
SNP_P4_192721_9969	NW_004521320.1	Scaffold8493	9969	AA	TT	1947067056
SNP_P4_192722_10594	NW_004521320.1	Scaffold8493	10594	GG	AA	1947067058
SNP_P4_192723_10603	NW_004521320.1	Scaffold8493	10603	GG	TT	1947067060
SNP_P4_192724_10775	NW_004521320.1	Scaffold8493	10775	TT	CC	1947067062
SNP_P4_192725_11054	NW_004521320.1	Scaffold8493	11054	CC	GG	1947067064
SNP_P4_192726_11098	NW_004521320.1	Scaffold8493	11098	TT	CC	1947067066
SNP_P4_192727_11653	NW_004521320.1	Scaffold8493	11653	TT	AA	1947067068
SNP_P4_192728_12194	NW_004521320.1	Scaffold8493	12194	AA	CC	1947067070
SNP_P4_192729_12414	NW_004521320.1	Scaffold8493	12414	AA	GG	1947067072
SNP_P4_192730_12908	NW_004521320.1	Scaffold8493	12908	TT	AA	1947067074
SNP_P4_192731_14150	NW_004521320.1	Scaffold8493	14150	GG	CC	1947067076
SNP_P4_192732_14964	NW_004521320.1	Scaffold8493	14964	GG	AA	1947067078
SNP_P4_192733_14995	NW_004521320.1	Scaffold8493	14995	GG	TT	1947067080
SNP_P4_192734_16740	NW_004521320.1	Scaffold8493	16740	AA	TT	1947067082
SNP_P4_192736_17878	NW_004521320.1	Scaffold8493	17878	GG	CC	1947067084
SNP_P4_192738_18284	NW_004521320.1	Scaffold8493	18284	GG	AA	1947067086
SNP_P4_192739_18289	NW_004521320.1	Scaffold8493	18289	CC	TT	1947067088
SNP_P4_192740_18461	NW_004521320.1	Scaffold8493	18461	CC	AA	1947067090
SNP_P4_192741_18635	NW_004521320.1	Scaffold8493	18635	TT	AA	1947067092
SNP_P4_192743_93	NW_004521325.1	Scaffold8501	93	TT	AA	1947067094
SNP_P4_192744_1266	NW_004521325.1	Scaffold8501	1266	AA	TT	1947067096
SNP_P4_192745_439	NW_004521326.1	Scaffold8502	439	GG	AA	1947067098

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_192747_1693	NW_004521332.1	Scaffold8518	1693	CC	TT	1947067102
SNP_P4_192748_90	NW_004521336.1	Scaffold8522	90	GG	AA	1947067104
SNP_P4_192749_200	NW_004521336.1	Scaffold8522	200	CC	GG	1947067106
SNP_P4_192750_356	NW_004521336.1	Scaffold8522	356	TT	GG	1947067108
SNP_P4_192751_591	NW_004521336.1	Scaffold8522	591	TT	GG	1947067110
SNP_P4_192753_696	NW_004521336.1	Scaffold8522	696	GG	AA	1947067111
SNP_P4_192754_64	NW_004521348.1	Scaffold8550	64	CC	AA	1947067112
SNP_P4_192755_91	NW_004521348.1	Scaffold8550	91	TT	CC	1947067114
SNP_P4_192756_354	NW_004521348.1	Scaffold8550	354	CC	TT	1947067116
SNP_P4_192757_358	NW_004521348.1	Scaffold8550	358	AA	CC	1947067118
SNP_P4_192758_396	NW_004521348.1	Scaffold8550	396	AA	CC	1947067120
SNP_P4_192759_488	NW_004521348.1	Scaffold8550	488	TT	CC	1947067122
SNP_P4_192760_655	NW_004521348.1	Scaffold8550	655	GG	TT	1947067124
SNP_P4_192761_663	NW_004521348.1	Scaffold8550	663	GG	TT	1947067126
SNP_P4_192762_690	NW_004521348.1	Scaffold8550	690	AA	GG	1947067128
SNP_P4_192763_731	NW_004521348.1	Scaffold8550	731	CC	AA	1947067130
SNP_P4_192764_780	NW_004521348.1	Scaffold8550	780	AA	GG	1947067132
SNP_P4_192765_1196	NW_004521349.1	Scaffold8552	1196	TT	CC	1947067134
SNP_P4_192766_463	NW_004521350.1	Scaffold8553	463	AA	TT	1947067136
SNP_P4_192767_516	NW_004521350.1	Scaffold8553	516	CC	TT	1947067138
SNP_P4_192768_587	NW_004521350.1	Scaffold8553	587	TT	AA	1947067140
SNP_P4_192770_876	NW_004521350.1	Scaffold8553	876	AA	GG	1947067142
SNP_P4_192771_946	NW_004521350.1	Scaffold8553	946	AA	GG	1947067144
SNP_P4_192772_958	NW_004521350.1	Scaffold8553	958	TT	AA	1947067147
SNP_P4_192773_959	NW_004521350.1	Scaffold8553	959	GG	AA	1947067149
SNP_P4_192774_454	NW_004521353.1	Scaffold8564	454	CC	TT	1947067151
SNP_P4_192775_472	NW_004521353.1	Scaffold8564	472	CC	GG	1947067153
SNP_P4_192776_528	NW_004521353.1	Scaffold8564	528	GG	CC	1947067155
SNP_P4_192777_6446	NW_004521354.1	Scaffold8565	6446	AA	CC	1947067157
SNP_P4_192778_6788	NW_004521354.1	Scaffold8565	6788	AA	CC	1947067159
SNP_P4_192780_6905	NW_004521354.1	Scaffold8565	6905	TT	AA	1947067161
SNP_P4_192781_6998	NW_004521354.1	Scaffold8565	6998	CC	TT	1947067163
SNP_P4_192782_7013	NW_004521354.1	Scaffold8565	7013	CC	TT	1947067165
SNP_P4_192783_7094	NW_004521354.1	Scaffold8565	7094	AA	TT	1947067167
SNP_P4_192784_7100	NW_004521354.1	Scaffold8565	7100	TT	GG	1947067169
SNP_P4_192786_7184	NW_004521354.1	Scaffold8565	7184	AA	CC	1947067171
SNP_P4_192787_7257	NW_004521354.1	Scaffold8565	7257	TT	CC	1947067173
SNP_P4_192788_7265	NW_004521354.1	Scaffold8565	7265	AA	TT	1947067175
SNP_P4_192789_64	NW_004521355.1	Scaffold8571	64	GG	AA	1947067177
SNP_P4_192790_377	NW_004521355.1	Scaffold8571	377	GG	TT	1947067179
SNP_P4_192791_509	NW_004521355.1	Scaffold8571	509	TT	AA	1947067181

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_192793_548	NW_004521355.1	Scaffold8571	548	TT	CC	1947067185
SNP_P4_192794_602	NW_004521355.1	Scaffold8571	602	GG	AA	1947067188
SNP_P4_192795_1060	NW_004521355.1	Scaffold8571	1060	GG	AA	1947067190
SNP_P4_192796_6406	NW_004521356.1	Scaffold8572	6406	CC	TT	1947067192
SNP_P4_192797_6475	NW_004521356.1	Scaffold8572	6475	GG	TT	1947067194
SNP_P4_192798_341	NW_004521359.1	Scaffold8582	341	CC	TT	1947067197
SNP_P4_192799_794	NW_004521361.1	Scaffold8585	794	GG	AA	1947067199
SNP_P4_192800_958	NW_004521362.1	Scaffold8586	958	AA	GG	1947067201
SNP_P4_192801_1367	NW_004521362.1	Scaffold8586	1367	CC	TT	1947067203
SNP_P4_192803_289	NW_004521365.1	Scaffold8590	289	TT	GG	1947067205
SNP_P4_192804_450	NW_004521370.1	Scaffold8602	450	TT	GG	1947067207
SNP_P4_192805_408	NW_004521371.1	Scaffold8603	408	AA	GG	1947067209
SNP_P4_192806_64	NW_004521372.1	Scaffold8604	64	AA	CC	1947067211
SNP_P4_192807_91	NW_004521372.1	Scaffold8604	91	TT	CC	1947067213
SNP_P4_192808_101	NW_004521372.1	Scaffold8604	101	AA	TT	1947067215
SNP_P4_192809_102	NW_004521372.1	Scaffold8604	102	AA	GG	1947067217
SNP_P4_192810_108	NW_004521372.1	Scaffold8604	108	AA	GG	1947067219
SNP_P4_192811_120	NW_004521372.1	Scaffold8604	120	AA	CC	1947067221
SNP_P4_192812_245	NW_004521372.1	Scaffold8604	245	CC	TT	1947067223
SNP_P4_192813_246	NW_004521372.1	Scaffold8604	246	TT	AA	1947067225
SNP_P4_192814_375	NW_004521372.1	Scaffold8604	375	CC	TT	1947067227
SNP_P4_192816_464	NW_004521372.1	Scaffold8604	464	CC	TT	1947067229
SNP_P4_192817_667	NW_004521372.1	Scaffold8604	667	GG	AA	1947067231
SNP_P4_192818_671	NW_004521372.1	Scaffold8604	671	AA	GG	1947067233
SNP_P4_192819_770	NW_004521372.1	Scaffold8604	770	AA	CC	1947067235
SNP_P4_192820_1401	NW_004521372.1	Scaffold8604	1401	AA	TT	1947067237
SNP_P4_192821_336	NW_004521377.1	Scaffold8620	336	AA	TT	1947067239
SNP_P4_192822_629	NW_004521377.1	Scaffold8620	629	GG	AA	1947067241
SNP_P4_192823_646	NW_004521377.1	Scaffold8620	646	GG	AA	1947067243
SNP_P4_192824_699	NW_004521377.1	Scaffold8620	699	GG	TT	1947067245
SNP_P4_192826_1000	NW_004521377.1	Scaffold8620	1000	AA	CC	1947067247
SNP_P4_192827_1011	NW_004521377.1	Scaffold8620	1011	GG	TT	1947067249
SNP_P4_192828_1197	NW_004521377.1	Scaffold8620	1197	TT	CC	1947067252
SNP_P4_192829_1330	NW_004521377.1	Scaffold8620	1330	TT	GG	1947067254
SNP_P4_192830_1639	NW_004521377.1	Scaffold8620	1639	TT	CC	1947067256
SNP_P4_192831_287	NW_004521381.1	Scaffold8625	287	AA	GG	1947067258
SNP_P4_192832_20459	NW_004521382.1	Scaffold8626	20459	AA	CC	1947067260
SNP_P4_192833_20481	NW_004521382.1	Scaffold8626	20481	CC	TT	1947067262
SNP_P4_192834_20488	NW_004521382.1	Scaffold8626	20488	GG	AA	1947067264
SNP_P4_192835_64	NW_004521383.1	Scaffold8627	64	GG	CC	1947067266
SNP_P4_192836_93	NW_004521383.1	Scaffold8627	93	AA	GG	1947067311

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_192839_812	NW_004521384.1	Scaffold8628	812	AA	CC	1947067315
SNP_P4_192840_352	NW_004521388.1	Scaffold8639	352	CC	AA	1947067317
SNP_P4_192841_440	NW_004521388.1	Scaffold8639	440	AA	TT	1947067319
SNP_P4_192842_541	NW_004521388.1	Scaffold8639	541	AA	TT	1947067321
SNP_P4_192843_727	NW_004521388.1	Scaffold8639	727	TT	GG	1947067323
SNP_P4_192844_758	NW_004521388.1	Scaffold8639	758	GG	TT	1947067325
SNP_P4_192845_808	NW_004521388.1	Scaffold8639	808	GG	TT	1947067327
SNP_P4_192846_813	NW_004521390.1	Scaffold8641	813	AA	CC	1947067329
SNP_P4_192847_814	NW_004521390.1	Scaffold8641	814	CC	TT	1947067330
SNP_P4_192848_854	NW_004521390.1	Scaffold8641	854	CC	TT	1947067331
SNP_P4_192849_432	NW_004521391.1	Scaffold8645	432	GG	AA	1947067332
SNP_P4_192850_445	NW_004521391.1	Scaffold8645	445	TT	CC	1947067333
SNP_P4_192851_659	NW_004521391.1	Scaffold8645	659	TT	CC	1947067335
SNP_P4_192852_1382	NW_004521391.1	Scaffold8645	1382	CC	TT	1947067337
SNP_P4_192853_1413	NW_004521391.1	Scaffold8645	1413	TT	AA	1947067339
SNP_P4_192854_372	NW_004521392.1	Scaffold8646	372	AA	TT	1947067341
SNP_P4_192855_1658	NW_004521392.1	Scaffold8646	1658	AA	GG	1947067343
SNP_P4_192856_1763	NW_004521392.1	Scaffold8646	1763	CC	TT	1947067345
SNP_P4_192857_1973	NW_004521392.1	Scaffold8646	1973	CC	TT	1947067347
SNP_P4_192858_1997	NW_004521392.1	Scaffold8646	1997	AA	GG	1947067349
SNP_P4_192859_2029	NW_004521392.1	Scaffold8646	2029	GG	AA	1947067351
SNP_P4_192860_2033	NW_004521392.1	Scaffold8646	2033	CC	TT	1947067353
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SNP_P4_192862_2210	NW_004521392.1	Scaffold8646	2210	CC	AA	1947067357
SNP_P4_192863_2344	NW_004521392.1	Scaffold8646	2344	CC	TT	1947067359
SNP_P4_192864_2401	NW_004521392.1	Scaffold8646	2401	GG	TT	1947067361
SNP_P4_192865_2402	NW_004521392.1	Scaffold8646	2402	GG	AA	1947067363
SNP_P4_192866_2488	NW_004521392.1	Scaffold8646	2488	AA	GG	1947067365
SNP_P4_192867_2540	NW_004521392.1	Scaffold8646	2540	TT	AA	1947067367
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SNP_P4_192873_7118	NW_004521392.1	Scaffold8646	7118	GG	TT	1947067373
SNP_P4_192874_7128	NW_004521392.1	Scaffold8646	7128	AA	GG	1947067375
SNP_P4_192875_7314	NW_004521392.1	Scaffold8646	7314	AA	CC	1947067377
SNP_P4_192876_2433	NW_004521393.1	Scaffold8648	2433	CC	TT	1947067379
SNP_P4_192877_2476	NW_004521393.1	Scaffold8648	2476	TT	CC	1947067381
SNP_P4_192878_2497	NW_004521393.1	Scaffold8648	2497	AA	GG	1947067383
SNP_P4_192879_2501	NW_004521393.1	Scaffold8648	2501	AA	GG	1947067385
SNP_P4_192880_2517	NW_004521393.1	Scaffold8648	2517	AA	GG	1947067387
SNP_P4_192881_2544	NW_004521393.1	Scaffold8648	2544	AA	GG	1947067389
SNP_P4_192882_2545	NW_004521393.1	Scaffold8648	2545	GG	AA	1947067391

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_192883_2552	NW_004521393.1	Scaffold8648	2552	TT	GG	1947067393
SNP_P4_192884_2571	NW_004521393.1	Scaffold8648	2571	TT	CC	1947067395
SNP_P4_192885_2760	NW_004521393.1	Scaffold8648	2760	AA	TT	1947067397
SNP_P4_192886_2783	NW_004521393.1	Scaffold8648	2783	CC	GG	1947067399
SNP_P4_192887_2829	NW_004521393.1	Scaffold8648	2829	CC	TT	1947067401
SNP_P4_192888_3403	NW_004521393.1	Scaffold8648	3403	AA	TT	1947067403
SNP_P4_192889_3458	NW_004521393.1	Scaffold8648	3458	CC	GG	1947067405
SNP_P4_192891_3830	NW_004521393.1	Scaffold8648	3830	TT	AA	1947067407
SNP_P4_192892_3839	NW_004521393.1	Scaffold8648	3839	TT	GG	1947067409
SNP_P4_192893_4175	NW_004521393.1	Scaffold8648	4175	TT	CC	1947067411
SNP_P4_192894_4179	NW_004521393.1	Scaffold8648	4179	AA	GG	1947067413
SNP_P4_192895_4210	NW_004521393.1	Scaffold8648	4210	TT	CC	1947067415
SNP_P4_192896_4217	NW_004521393.1	Scaffold8648	4217	GG	AA	1947067417
SNP_P4_192897_4269	NW_004521393.1	Scaffold8648	4269	TT	GG	1947067419
SNP_P4_192898_4395	NW_004521393.1	Scaffold8648	4395	CC	GG	1947067421
SNP_P4_192899_4710	NW_004521393.1	Scaffold8648	4710	AA	GG	1947067423
SNP_P4_192900_4722	NW_004521393.1	Scaffold8648	4722	TT	AA	1947067426
SNP_P4_192901_4757	NW_004521393.1	Scaffold8648	4757	AA	GG	1947067428
SNP_P4_192902_4758	NW_004521393.1	Scaffold8648	4758	AA	GG	1947067430
SNP_P4_192903_4774	NW_004521393.1	Scaffold8648	4774	TT	CC	1947067431
SNP_P4_192904_4797	NW_004521393.1	Scaffold8648	4797	CC	AA	1947067434
SNP_P4_192905_4836	NW_004521393.1	Scaffold8648	4836	CC	TT	1947067436
SNP_P4_192906_130	NW_004521394.1	Scaffold8650	130	AA	GG	1947067438
SNP_P4_192907_142	NW_004521394.1	Scaffold8650	142	CC	GG	1947067440
SNP_P4_192908_164	NW_004521394.1	Scaffold8650	164	AA	CC	1947067442
SNP_P4_192909_173	NW_004521394.1	Scaffold8650	173	GG	TT	1947067444
SNP_P4_192910_193	NW_004521394.1	Scaffold8650	193	TT	CC	1947067446
SNP_P4_192911_253	NW_004521394.1	Scaffold8650	253	TT	AA	1947067448
SNP_P4_192912_254	NW_004521394.1	Scaffold8650	254	AA	GG	1947067450
SNP_P4_192913_455	NW_004521394.1	Scaffold8650	455	GG	TT	1947067452
SNP_P4_192914_2483	NW_004521397.1	Scaffold8653	2483	CC	TT	1947067454
SNP_P4_192915_153	NW_004521398.1	Scaffold8654	153	TT	CC	1947067456
SNP_P4_192916_154	NW_004521398.1	Scaffold8654	154	TT	CC	1947067458
SNP_P4_192917_293	NW_004521398.1	Scaffold8654	293	TT	AA	1947067460
SNP_P4_192918_295	NW_004521398.1	Scaffold8654	295	TT	AA	1947067462
SNP_P4_192919_311	NW_004521398.1	Scaffold8654	311	TT	CC	1947067464
SNP_P4_192920_357	NW_004521398.1	Scaffold8654	357	AA	CC	1947067466
SNP_P4_192921_385	NW_004521398.1	Scaffold8654	385	AA	CC	1947067468
SNP_P4_192922_511	NW_004521398.1	Scaffold8654	511	TT	CC	1947067470
SNP_P4_192923_5294	NW_004521398.1	Scaffold8654	5294	TT	GG	1947067472
SNP_P4_192924_5555	NW_004521398.1	Scaffold8654	5555	CC	AA	1947067474
SNP_P4_192925_5661	NW_004521398.1	Scaffold8654	5661	AA	TT	1947067476

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_192927_5746	NW_004521398.1	Scaffold8654	5746	CC	GG	1947067480
SNP_P4_192928_5828	NW_004521398.1	Scaffold8654	5828	AA	CC	1947067482
SNP_P4_192929_5880	NW_004521398.1	Scaffold8654	5880	CC	AA	1947067484
SNP_P4_192930_451	NW_004521404.1	Scaffold8666	451	AA	GG	1947067487
SNP_P4_192931_811	NW_004521405.1	Scaffold8668	811	TT	AA	1947067489
SNP_P4_192932_18	NW_004521406.1	Scaffold8669	18	GG	CC	1947067491
SNP_P4_192933_23	NW_004521406.1	Scaffold8669	23	AA	GG	1947067493
SNP_P4_192934_35	NW_004521406.1	Scaffold8669	35	GG	AA	1947067495
SNP_P4_192935_40	NW_004521406.1	Scaffold8669	40	TT	AA	1947067497
SNP_P4_192936_92	NW_004521406.1	Scaffold8669	92	GG	AA	1947067499
SNP_P4_192937_643	NW_004521406.1	Scaffold8669	643	CC	AA	1947067501
SNP_P4_192938_648	NW_004521406.1	Scaffold8669	648	AA	TT	1947067503
SNP_P4_192940_720	NW_004521406.1	Scaffold8669	720	AA	CC	1947067505
SNP_P4_192941_748	NW_004521406.1	Scaffold8669	748	GG	CC	1947067507
SNP_P4_192942_467	NW_004521411.1	Scaffold8675	467	TT	AA	1947067509
SNP_P4_192943_752	NW_004521411.1	Scaffold8675	752	AA	GG	1947067511
SNP_P4_192944_821	NW_004521411.1	Scaffold8675	821	CC	AA	1947067513
SNP_P4_192945_843	NW_004521411.1	Scaffold8675	843	GG	AA	1947067515
SNP_P4_192946_1208	NW_004521411.1	Scaffold8675	1208	TT	CC	1947067517
SNP_P4_192947_1427	NW_004521413.1	Scaffold8680	1427	AA	TT	1947067519
SNP_P4_192948_1578	NW_004521413.1	Scaffold8680	1578	AA	CC	1947067521
SNP_P4_192949_1642	NW_004521413.1	Scaffold8680	1642	CC	TT	1947067523
SNP_P4_192950_1025	NW_004521415.1	Scaffold8686	1025	CC	TT	1947067525
SNP_P4_192951_1036	NW_004521415.1	Scaffold8686	1036	CC	TT	1947067527
SNP_P4_192952_1145	NW_004521415.1	Scaffold8686	1145	GG	TT	1947067529
SNP_P4_192953_1155	NW_004521415.1	Scaffold8686	1155	CC	AA	1947067531
SNP_P4_192954_64	NW_004521416.1	Scaffold8687	64	GG	TT	1947067533
SNP_P4_192955_100	NW_004521416.1	Scaffold8687	100	GG	TT	1947067535
SNP_P4_192956_189	NW_004521416.1	Scaffold8687	189	CC	TT	1947067537
SNP_P4_192957_236	NW_004521416.1	Scaffold8687	236	GG	AA	1947067539
SNP_P4_192958_790	NW_004521416.1	Scaffold8687	790	GG	TT	1947067541
SNP_P4_192959_639	NW_004521419.1	Scaffold8690	639	CC	TT	1947067543
SNP_P4_192960_677	NW_004521419.1	Scaffold8690	677	GG	CC	1947067545
SNP_P4_192961_734	NW_004521419.1	Scaffold8690	734	GG	CC	1947067547
SNP_P4_192962_749	NW_004521419.1	Scaffold8690	749	GG	AA	1947067550
SNP_P4_192963_796	NW_004521419.1	Scaffold8690	796	AA	GG	1947067552
SNP_P4_192964_1049	NW_004521419.1	Scaffold8690	1049	GG	AA	1947067554
SNP_P4_192965_1068	NW_004521421.1	Scaffold8695	1068	CC	GG	1947067556
SNP_P4_192966_64	NW_004521422.1	Scaffold8696	64	TT	AA	1947067558
SNP_P4_192967_381	NW_004521422.1	Scaffold8696	381	AA	CC	1947067560
SNP_P4_192968_848	NW_004521422.1	Scaffold8696	848	TT	CC	1947067562

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_192970_456	NW_004521423.1	Scaffold8702	456	CC	TT	1947067566
SNP_P4_192971_490	NW_004521423.1	Scaffold8702	490	CC	TT	1947067568
SNP_P4_192972_552	NW_004521423.1	Scaffold8702	552	TT	CC	1947067570
SNP_P4_192973_749	NW_004521423.1	Scaffold8702	749	TT	CC	1947067572
SNP_P4_192974_901	NW_004521423.1	Scaffold8702	901	AA	CC	1947067574
SNP_P4_192975_1100	NW_004521423.1	Scaffold8702	1100	CC	TT	1947067576
SNP_P4_192976_2302	NW_004521424.1	Scaffold8704	2302	GG	AA	1947067578
SNP_P4_192977_2306	NW_004521424.1	Scaffold8704	2306	AA	GG	1947067580
SNP_P4_192978_2326	NW_004521424.1	Scaffold8704	2326	CC	TT	1947067582
SNP_P4_192979_2328	NW_004521424.1	Scaffold8704	2328	AA	CC	1947067584
SNP_P4_192980_2624	NW_004521424.1	Scaffold8704	2624	TT	CC	1947067586
SNP_P4_192981_2625	NW_004521424.1	Scaffold8704	2625	CC	TT	1947067588
SNP_P4_192982_2657	NW_004521424.1	Scaffold8704	2657	CC	TT	1947067590
SNP_P4_192983_898	NW_004521425.1	Scaffold8705	898	TT	CC	1947067592
SNP_P4_192985_103	NW_004521426.1	Scaffold8707	103	TT	GG	1947067594
SNP_P4_192986_127	NW_004521426.1	Scaffold8707	127	GG	CC	1947067596
SNP_P4_192987_154	NW_004521426.1	Scaffold8707	154	TT	AA	1947067598
SNP_P4_192988_155	NW_004521426.1	Scaffold8707	155	TT	CC	1947067600
SNP_P4_192989_498	NW_004521426.1	Scaffold8707	498	TT	CC	1947067602
SNP_P4_192990_1266	NW_004521426.1	Scaffold8707	1266	AA	TT	1947067604
SNP_P4_192991_1299	NW_004521426.1	Scaffold8707	1299	GG	CC	1947067606
SNP_P4_192992_1358	NW_004521426.1	Scaffold8707	1358	GG	AA	1947067608
SNP_P4_192993_1380	NW_004521426.1	Scaffold8707	1380	GG	CC	1947067610
SNP_P4_192994_1421	NW_004521426.1	Scaffold8707	1421	GG	AA	1947067612
SNP_P4_192995_1657	NW_004521426.1	Scaffold8707	1657	AA	CC	1947067614
SNP_P4_192996_1680	NW_004521426.1	Scaffold8707	1680	GG	CC	1947067616
SNP_P4_192997_1723	NW_004521426.1	Scaffold8707	1723	CC	TT	1947067618
SNP_P4_192998_1749	NW_004521426.1	Scaffold8707	1749	AA	CC	1947067620
SNP_P4_192999_1768	NW_004521426.1	Scaffold8707	1768	TT	CC	1947067622
SNP_P4_193000_64	NW_004521428.1	Scaffold8709	64	CC	TT	1947067624
SNP_P4_193001_290	NW_004521428.1	Scaffold8709	290	CC	AA	1947067626
SNP_P4_193002_649	NW_004521428.1	Scaffold8709	649	TT	GG	1947067628
SNP_P4_193003_966	NW_004521428.1	Scaffold8709	966	GG	AA	1947067630
SNP_P4_193004_561	NW_004521430.1	Scaffold8715	561	AA	CC	1947067632
SNP_P4_193005_562	NW_004521430.1	Scaffold8715	562	TT	CC	1947067634
SNP_P4_193006_591	NW_004521430.1	Scaffold8715	591	GG	AA	1947067636
SNP_P4_193007_645	NW_004521430.1	Scaffold8715	645	TT	GG	1947067638
SNP_P4_193008_776	NW_004521430.1	Scaffold8715	776	TT	AA	1947067640
SNP_P4_193009_987	NW_004521430.1	Scaffold8715	987	TT	CC	1947067642
SNP_P4_193010_1072	NW_004521430.1	Scaffold8715	1072	GG	AA	1947067644
SNP_P4_193011_1109	NW_004521430.1	Scaffold8715	1109	AA	GG	1947067646

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_193014_64	NW_004521434.1	Scaffold8730	64	GG	AA	1947067650
SNP_P4_193016_150	NW_004521434.1	Scaffold8730	150	AA	GG	1947067652
SNP_P4_193017_181	NW_004521434.1	Scaffold8730	181	TT	CC	1947067654
SNP_P4_193018_205	NW_004521434.1	Scaffold8730	205	GG	AA	1947067656
SNP_P4_193019_257	NW_004521434.1	Scaffold8730	257	GG	AA	1947067658
SNP_P4_193020_284	NW_004521434.1	Scaffold8730	284	AA	TT	1947067660
SNP_P4_193021_371	NW_004521434.1	Scaffold8730	371	AA	TT	1947067662
SNP_P4_193022_383	NW_004521434.1	Scaffold8730	383	CC	TT	1947067664
SNP_P4_193023_386	NW_004521434.1	Scaffold8730	386	TT	CC	1947067666
SNP_P4_193024_389	NW_004521434.1	Scaffold8730	389	GG	TT	1947067668
SNP_P4_193025_460	NW_004521434.1	Scaffold8730	460	GG	AA	1947067670
SNP_P4_193026_485	NW_004521434.1	Scaffold8730	485	AA	GG	1947067672
SNP_P4_193027_517	NW_004521434.1	Scaffold8730	517	TT	AA	1947067674
SNP_P4_193028_573	NW_004521434.1	Scaffold8730	573	AA	CC	1947067676
SNP_P4_193029_1541	NW_004521434.1	Scaffold8730	1541	TT	AA	1947067678
SNP_P4_193030_1736	NW_004521434.1	Scaffold8730	1736	AA	CC	1947067680
SNP_P4_193031_1805	NW_004521434.1	Scaffold8730	1805	AA	GG	1947067682
SNP_P4_193032_1897	NW_004521434.1	Scaffold8730	1897	TT	CC	1947067684
SNP_P4_193033_2013	NW_004521434.1	Scaffold8730	2013	TT	CC	1947067686
SNP_P4_193034_2100	NW_004521434.1	Scaffold8730	2100	TT	CC	1947067688
SNP_P4_193035_2112	NW_004521434.1	Scaffold8730	2112	TT	CC	1947067690
SNP_P4_193036_471	NW_004521436.1	Scaffold8733	471	CC	TT	1947067692
SNP_P4_193037_515	NW_004521436.1	Scaffold8733	515	GG	AA	1947067694
SNP_P4_193038_534	NW_004521436.1	Scaffold8733	534	CC	TT	1947067696
SNP_P4_193039_204	NW_004521437.1	Scaffold8734	204	GG	TT	1947067698
SNP_P4_193040_271	NW_004521437.1	Scaffold8734	271	AA	GG	1947067701
SNP_P4_193041_286	NW_004521437.1	Scaffold8734	286	AA	GG	1947067703
SNP_P4_193042_320	NW_004521437.1	Scaffold8734	320	GG	AA	1947067705
SNP_P4_193043_358	NW_004521437.1	Scaffold8734	358	TT	CC	1947067707
SNP_P4_193044_437	NW_004521437.1	Scaffold8734	437	TT	CC	1947067709
SNP_P4_193045_540	NW_004521437.1	Scaffold8734	540	AA	TT	1947067711
SNP_P4_193046_648	NW_004521437.1	Scaffold8734	648	CC	GG	1947067713
SNP_P4_193047_707	NW_004521437.1	Scaffold8734	707	AA	TT	1947067715
SNP_P4_193049_816	NW_004521437.1	Scaffold8734	816	TT	CC	1947067717
SNP_P4_193050_839	NW_004521437.1	Scaffold8734	839	AA	TT	1947067719
SNP_P4_193051_867	NW_004521437.1	Scaffold8734	867	AA	TT	1947067721
SNP_P4_193052_876	NW_004521437.1	Scaffold8734	876	CC	AA	1947067723
SNP_P4_193053_947	NW_004521437.1	Scaffold8734	947	TT	AA	1947067725
SNP_P4_193054_1062	NW_004521437.1	Scaffold8734	1062	AA	GG	1947067727
SNP_P4_193056_1227	NW_004521437.1	Scaffold8734	1227	GG	AA	1947067729
SNP_P4_193057_1281	NW_004521437.1	Scaffold8734	1281	GG	AA	1947067731

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_193059_2021	NW_004521437.1	Scaffold8734	2021	GG	AA	1947067735
SNP_P4_193060_2354	NW_004521437.1	Scaffold8734	2354	TT	CC	1947067737
SNP_P4_193061_2413	NW_004521437.1	Scaffold8734	2413	TT	AA	1947067739
SNP_P4_193062_84	NW_004521440.1	Scaffold8744	84	AA	TT	1947067741
SNP_P4_193063_93	NW_004521440.1	Scaffold8744	93	AA	TT	1947067743
SNP_P4_193064_488	NW_004521440.1	Scaffold8744	488	CC	TT	1947067745
SNP_P4_193065_1344	NW_004521441.1	Scaffold8746	1344	AA	GG	1947067747
SNP_P4_193066_1730	NW_004521441.1	Scaffold8746	1730	CC	TT	1947067749
SNP_P4_193067_2174	NW_004521441.1	Scaffold8746	2174	AA	CC	1947067751
SNP_P4_193068_2750	NW_004521441.1	Scaffold8746	2750	GG	AA	1947067753
SNP_P4_193069_4355	NW_004521441.1	Scaffold8746	4355	GG	TT	1947067755
SNP_P4_193070_4363	NW_004521441.1	Scaffold8746	4363	AA	GG	1947067758
SNP_P4_193071_4836	NW_004521441.1	Scaffold8746	4836	CC	TT	1947067760
SNP_P4_193072_6000	NW_004521441.1	Scaffold8746	6000	TT	AA	1947067762
SNP_P4_193073_6406	NW_004521441.1	Scaffold8746	6406	AA	GG	1947067764
SNP_P4_193074_6414	NW_004521441.1	Scaffold8746	6414	GG	AA	1947067766
SNP_P4_193075_6441	NW_004521441.1	Scaffold8746	6441	GG	AA	1947067768
SNP_P4_193076_6514	NW_004521441.1	Scaffold8746	6514	TT	CC	1947067770
SNP_P4_193077_6756	NW_004521441.1	Scaffold8746	6756	CC	TT	1947067772
SNP_P4_193078_7082	NW_004521441.1	Scaffold8746	7082	TT	AA	1947067774
SNP_P4_193079_7134	NW_004521441.1	Scaffold8746	7134	AA	GG	1947067776
SNP_P4_193080_7200	NW_004521441.1	Scaffold8746	7200	AA	GG	1947067778
SNP_P4_193081_7205	NW_004521441.1	Scaffold8746	7205	TT	GG	1947067780
SNP_P4_193082_7206	NW_004521441.1	Scaffold8746	7206	CC	GG	1947067782
SNP_P4_193083_134	NW_004521442.1	Scaffold8749	134	GG	TT	1947067784
SNP_P4_193084_528	NW_004521443.1	Scaffold8751	528	CC	TT	1947067786
SNP_P4_193085_556	NW_004521443.1	Scaffold8751	556	AA	GG	1947067788
SNP_P4_193086_569	NW_004521443.1	Scaffold8751	569	TT	AA	1947067790
SNP_P4_193087_572	NW_004521443.1	Scaffold8751	572	CC	AA	1947067792
SNP_P4_193088_701	NW_004521445.1	Scaffold8755	701	TT	AA	1947067794
SNP_P4_193089_705	NW_004521445.1	Scaffold8755	705	AA	GG	1947067796
SNP_P4_193090_731	NW_004521445.1	Scaffold8755	731	TT	CC	1947067798
SNP_P4_193091_738	NW_004521445.1	Scaffold8755	738	GG	TT	1947067800
SNP_P4_193092_822	NW_004521445.1	Scaffold8755	822	GG	AA	1947067802
SNP_P4_193093_1109	NW_004521445.1	Scaffold8755	1109	AA	GG	1947067804
SNP_P4_193094_1078	NW_004521450.1	Scaffold8766	1078	TT	AA	1947067806
SNP_P4_193095_1169	NW_004521450.1	Scaffold8766	1169	CC	TT	1947067808
SNP_P4_193096_1474	NW_004521450.1	Scaffold8766	1474	GG	CC	1947067810
SNP_P4_193097_1622	NW_004521450.1	Scaffold8766	1622	TT	AA	1947067812
SNP_P4_193098_93	NW_004521454.1	Scaffold8778	93	AA	TT	1947067814
SNP_P4_193099_102	NW_004521454.1	Scaffold8778	102	GG	AA	1947067816

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_193100_207	NW_004521454.1	Scaffold8778	207	CC	AA	1947067818
SNP_P4_193101_580	NW_004521454.1	Scaffold8778	580	TT	AA	1947067821
SNP_P4_193102_81	NW_004521456.1	Scaffold8785	81	CC	TT	1947067823
SNP_P4_193103_97	NW_004521456.1	Scaffold8785	97	GG	TT	1947067825
SNP_P4_193104_147	NW_004521456.1	Scaffold8785	147	AA	TT	1947067827
SNP_P4_193105_155	NW_004521456.1	Scaffold8785	155	TT	AA	1947067829
SNP_P4_193106_119	NW_004521458.1	Scaffold8789	119	GG	CC	1947067831
SNP_P4_193107_246	NW_004521458.1	Scaffold8789	246	TT	GG	1947067833
SNP_P4_193108_350	NW_004521458.1	Scaffold8789	350	TT	GG	1947067835
SNP_P4_193109_376	NW_004521458.1	Scaffold8789	376	CC	AA	1947067837
SNP_P4_193110_393	NW_004521458.1	Scaffold8789	393	AA	GG	1947067839
SNP_P4_193111_406	NW_004521458.1	Scaffold8789	406	GG	AA	1947067841
SNP_P4_193112_443	NW_004521458.1	Scaffold8789	443	TT	AA	1947067844
SNP_P4_193113_466	NW_004521458.1	Scaffold8789	466	AA	CC	1947067846
SNP_P4_193114_477	NW_004521458.1	Scaffold8789	477	AA	GG	1947067848
SNP_P4_193115_545	NW_004521458.1	Scaffold8789	545	AA	GG	1947067850
SNP_P4_193117_658	NW_004521458.1	Scaffold8789	658	CC	AA	1947067852
SNP_P4_193118_666	NW_004521458.1	Scaffold8789	666	AA	CC	1947067854
SNP_P4_193119_690	NW_004521458.1	Scaffold8789	690	TT	GG	1947067856
SNP_P4_193120_741	NW_004521458.1	Scaffold8789	741	AA	GG	1947067858
SNP_P4_193121_784	NW_004521458.1	Scaffold8789	784	AA	GG	1947067860
SNP_P4_193122_846	NW_004521458.1	Scaffold8789	846	TT	CC	1947067862
SNP_P4_193123_1002	NW_004521458.1	Scaffold8789	1002	AA	TT	1947067864
SNP_P4_193124_1049	NW_004521458.1	Scaffold8789	1049	TT	GG	1947067866
SNP_P4_193125_1630	NW_004521458.1	Scaffold8789	1630	TT	GG	1947067868
SNP_P4_193126_1639	NW_004521458.1	Scaffold8789	1639	GG	TT	1947067870
SNP_P4_193127_1642	NW_004521458.1	Scaffold8789	1642	TT	AA	1947067872
SNP_P4_193128_1643	NW_004521458.1	Scaffold8789	1643	AA	GG	1947067874
SNP_P4_193130_1916	NW_004521458.1	Scaffold8789	1916	TT	GG	1947067876
SNP_P4_193132_20347	NW_004521464.1	Scaffold8801	20347	AA	TT	1947067878
SNP_P4_193133_20424	NW_004521464.1	Scaffold8801	20424	GG	CC	1947067880
SNP_P4_193134_20450	NW_004521464.1	Scaffold8801	20450	GG	AA	1947067882
SNP_P4_193135_20493	NW_004521464.1	Scaffold8801	20493	TT	AA	1947067884
SNP_P4_193136_20895	NW_004521464.1	Scaffold8801	20895	TT	CC	1947067886
SNP_P4_193137_20914	NW_004521464.1	Scaffold8801	20914	GG	AA	1947067889
SNP_P4_193140_6334	NW_004521465.1	Scaffold8803	6334	AA	TT	1947067891
SNP_P4_193141_6354	NW_004521465.1	Scaffold8803	6354	GG	TT	1947067893
SNP_P4_193144_7900	NW_004521465.1	Scaffold8803	7900	CC	TT	1947067895
SNP_P4_193145_8024	NW_004521465.1	Scaffold8803	8024	AA	GG	1947067897
SNP_P4_193146_92	NW_004521467.1	Scaffold8808	92	TT	AA	1947067899
SNP_P4_193147_93	NW_004521467.1	Scaffold8808	93	GG	TT	1947067901
SNP_P4_193148_94	NW_004521467.1	Scaffold8808	94	AA	GG	1947067903

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_193150_680	NW_004521467.1	Scaffold8808	680	GG	TT	1947067907
SNP_P4_193151_705	NW_004521467.1	Scaffold8808	705	GG	AA	1947067909
SNP_P4_193152_726	NW_004521467.1	Scaffold8808	726	TT	AA	1947067911
SNP_P4_193153_2066	NW_004521468.1	Scaffold8809	2066	TT	CC	1947067913
SNP_P4_193154_389	NW_004521474.1	Scaffold8821	389	AA	CC	1947067915
SNP_P4_193155_446	NW_004521474.1	Scaffold8821	446	CC	TT	1947067917
SNP_P4_193156_765	NW_004521474.1	Scaffold8821	765	AA	CC	1947067919
SNP_P4_193157_632	NW_004521475.1	Scaffold8822	632	AA	GG	1947067921
SNP_P4_193158_662	NW_004521475.1	Scaffold8822	662	AA	GG	1947067923
SNP_P4_193159_798	NW_004521475.1	Scaffold8822	798	AA	GG	1947067925
SNP_P4_193160_878	NW_004521475.1	Scaffold8822	878	AA	GG	1947067927
SNP_P4_193161_1146	NW_004521475.1	Scaffold8822	1146	TT	AA	1947067929
SNP_P4_193162_1189	NW_004521475.1	Scaffold8822	1189	TT	GG	1947067931
SNP_P4_193163_381	NW_004521476.1	Scaffold8824	381	GG	AA	1947067933
SNP_P4_193164_402	NW_004521476.1	Scaffold8824	402	TT	GG	1947067935
SNP_P4_193165_587	NW_004521476.1	Scaffold8824	587	TT	AA	1947067937
SNP_P4_193166_619	NW_004521477.1	Scaffold8825	619	AA	TT	1947067939
SNP_P4_193167_626	NW_004521477.1	Scaffold8825	626	GG	AA	1947067941
SNP_P4_193170_1063	NW_004521477.1	Scaffold8825	1063	GG	TT	1947067943
SNP_P4_193171_1091	NW_004521477.1	Scaffold8825	1091	GG	AA	1947067945
SNP_P4_193172_910	NW_004521478.1	Scaffold8826	910	AA	TT	1947067947
SNP_P4_193173_1427	NW_004521478.1	Scaffold8826	1427	TT	CC	1947067949
SNP_P4_193174_1437	NW_004521478.1	Scaffold8826	1437	TT	GG	1947067951
SNP_P4_193175_834	NW_004521482.1	Scaffold8836	834	GG	AA	1947067953
SNP_P4_193176_856	NW_004521482.1	Scaffold8836	856	CC	TT	1947067955
SNP_P4_193177_877	NW_004521482.1	Scaffold8836	877	AA	GG	1947067957
SNP_P4_193178_893	NW_004521482.1	Scaffold8836	893	AA	TT	1947067959
SNP_P4_193179_894	NW_004521482.1	Scaffold8836	894	TT	AA	1947067961
SNP_P4_193180_901	NW_004521482.1	Scaffold8836	901	TT	CC	1947067963
SNP_P4_193181_939	NW_004521482.1	Scaffold8836	939	AA	GG	1947067965
SNP_P4_193183_1105	NW_004521482.1	Scaffold8836	1105	AA	TT	1947067967
SNP_P4_193184_1129	NW_004521482.1	Scaffold8836	1129	GG	AA	1947067969
SNP_P4_193185_1161	NW_004521482.1	Scaffold8836	1161	CC	TT	1947067971
SNP_P4_193186_1197	NW_004521482.1	Scaffold8836	1197	AA	GG	1947067973
SNP_P4_193188_1051	NW_004521484.1	Scaffold8838	1051	AA	TT	1947067975
SNP_P4_193189_1115	NW_004521484.1	Scaffold8838	1115	GG	AA	1947067977
SNP_P4_193190_1153	NW_004521484.1	Scaffold8838	1153	CC	GG	1947067979
SNP_P4_193191_245	NW_004521485.1	Scaffold8842	245	AA	GG	1947067981
SNP_P4_193192_428	NW_004521485.1	Scaffold8842	428	TT	CC	1947067983
SNP_P4_193193_440	NW_004521485.1	Scaffold8842	440	CC	TT	1947067985
SNP_P4_193194_509	NW_004521485.1	Scaffold8842	509	GG	AA	1947067987

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_193196_602	NW_004521485.1	Scaffold8842	602	CC	AA	1947067991
SNP_P4_193197_888	NW_004521485.1	Scaffold8842	888	TT	CC	1947067993
SNP_P4_193198_948	NW_004521485.1	Scaffold8842	948	CC	TT	1947067995
SNP_P4_193199_1268	NW_004521486.1	Scaffold8844	1268	TT	CC	1947067997
SNP_P4_193200_1271	NW_004521486.1	Scaffold8844	1271	TT	AA	1947067999
SNP_P4_193201_1360	NW_004521486.1	Scaffold8844	1360	CC	TT	1947068001
SNP_P4_193202_1362	NW_004521486.1	Scaffold8844	1362	GG	TT	1947068003
SNP_P4_193203_1363	NW_004521486.1	Scaffold8844	1363	GG	AA	1947068010
SNP_P4_193204_1389	NW_004521486.1	Scaffold8844	1389	AA	GG	1947068012
SNP_P4_193205_1397	NW_004521486.1	Scaffold8844	1397	TT	CC	1947068014
SNP_P4_193206_1991	NW_004521487.1	Scaffold8845	1991	CC	TT	1947068016
SNP_P4_193207_1996	NW_004521487.1	Scaffold8845	1996	GG	CC	1947068018
SNP_P4_193208_2037	NW_004521487.1	Scaffold8845	2037	TT	CC	1947068020
SNP_P4_193209_2554	NW_004521487.1	Scaffold8845	2554	AA	GG	1947068022
SNP_P4_193210_3129	NW_004521487.1	Scaffold8845	3129	AA	GG	1947068024
SNP_P4_193211_3130	NW_004521487.1	Scaffold8845	3130	CC	AA	1947068026
SNP_P4_193212_3202	NW_004521487.1	Scaffold8845	3202	AA	GG	1947068028
SNP_P4_193213_3237	NW_004521487.1	Scaffold8845	3237	TT	CC	1947068030
SNP_P4_193214_3238	NW_004521487.1	Scaffold8845	3238	AA	TT	1947068032
SNP_P4_193215_1444	NW_004521489.1	Scaffold8848	1444	GG	TT	1947068034
SNP_P4_193216_1494	NW_004521489.1	Scaffold8848	1494	GG	CC	1947068036
SNP_P4_193217_1593	NW_004521489.1	Scaffold8848	1593	AA	TT	1947068038
SNP_P4_193218_1631	NW_004521489.1	Scaffold8848	1631	CC	AA	1947068040
SNP_P4_193219_1691	NW_004521489.1	Scaffold8848	1691	CC	TT	1947068042
SNP_P4_193220_555	NW_004521492.1	Scaffold8852	555	GG	AA	1947068044
SNP_P4_193221_731	NW_004521492.1	Scaffold8852	731	AA	GG	1947068046
SNP_P4_193222_799	NW_004521492.1	Scaffold8852	799	TT	AA	1947068048
SNP_P4_193223_896	NW_004521492.1	Scaffold8852	896	AA	GG	1947068050
SNP_P4_193224_1044	NW_004521492.1	Scaffold8852	1044	GG	AA	1947068052
SNP_P4_193225_1114	NW_004521492.1	Scaffold8852	1114	TT	AA	1947068054
SNP_P4_193226_1200	NW_004521492.1	Scaffold8852	1200	TT	CC	1947068056
SNP_P4_193227_1206	NW_004521492.1	Scaffold8852	1206	GG	AA	1947068058
SNP_P4_193229_368	NW_004521497.1	Scaffold8857	368	CC	TT	1947068060
SNP_P4_193230_5407	NW_004521497.1	Scaffold8857	5407	TT	GG	1947068062
SNP_P4_193231_5535	NW_004521497.1	Scaffold8857	5535	AA	CC	1947068064
SNP_P4_193232_5559	NW_004521497.1	Scaffold8857	5559	GG	AA	1947068066
SNP_P4_193233_5617	NW_004521497.1	Scaffold8857	5617	GG	AA	1947068068
SNP_P4_193234_5889	NW_004521497.1	Scaffold8857	5889	AA	TT	1947068070
SNP_P4_193235_5937	NW_004521497.1	Scaffold8857	5937	GG	AA	1947068072
SNP_P4_193236_769	NW_004521498.1	Scaffold8859	769	GG	AA	1947068074
SNP_P4_193237_807	NW_004521501.1	Scaffold8866	807	TT	CC	1947068076

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_193239_895	NW_004521501.1	Scaffold8866	895	AA	TT	1947068080
SNP_P4_193240_2112	NW_004521501.1	Scaffold8866	2112	CC	TT	1947068082
SNP_P4_193241_2942	NW_004521501.1	Scaffold8866	2942	CC	AA	1947068084
SNP_P4_193242_2945	NW_004521501.1	Scaffold8866	2945	AA	TT	1947068086
SNP_P4_193243_226	NW_004521502.1	Scaffold8867	226	CC	TT	1947068088
SNP_P4_193244_242	NW_004521502.1	Scaffold8867	242	CC	TT	1947068090
SNP_P4_193245_262	NW_004521502.1	Scaffold8867	262	TT	CC	1947068092
SNP_P4_193246_64	NW_004521505.1	Scaffold8875	64	AA	TT	1947068094
SNP_P4_193247_139	NW_004521505.1	Scaffold8875	139	AA	CC	1947068096
SNP_P4_193248_101	NW_004521506.1	Scaffold8876	101	AA	GG	1947068098
SNP_P4_193249_187	NW_004521506.1	Scaffold8876	187	TT	GG	1947068100
SNP_P4_193250_222	NW_004521506.1	Scaffold8876	222	TT	AA	1947068103
SNP_P4_193251_398	NW_004521506.1	Scaffold8876	398	CC	AA	1947068105
SNP_P4_193252_486	NW_004521506.1	Scaffold8876	486	TT	GG	1947068107
SNP_P4_193253_538	NW_004521506.1	Scaffold8876	538	TT	GG	1947068109
SNP_P4_193254_558	NW_004521506.1	Scaffold8876	558	AA	TT	1947068111
SNP_P4_193255_643	NW_004521506.1	Scaffold8876	643	CC	TT	1947068113
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SNP_P4_193257_885	NW_004521506.1	Scaffold8876	885	CC	TT	1947068117
SNP_P4_193258_195	NW_004521507.1	Scaffold8877	195	TT	GG	1947068119
SNP_P4_193259_229	NW_004521507.1	Scaffold8877	229	TT	CC	1947068121
SNP_P4_193261_501	NW_004521507.1	Scaffold8877	501	CC	AA	1947068123
SNP_P4_193262_520	NW_004521507.1	Scaffold8877	520	GG	AA	1947068125
SNP_P4_193263_543	NW_004521507.1	Scaffold8877	543	AA	GG	1947068127
SNP_P4_193264_754	NW_004521507.1	Scaffold8877	754	TT	AA	1947068129
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SNP_P4_193267_19865	NW_004521507.1	Scaffold8877	19865	AA	TT	1947068135
SNP_P4_193268_19882	NW_004521507.1	Scaffold8877	19882	AA	GG	1947068137
SNP_P4_193269_19956	NW_004521507.1	Scaffold8877	19956	CC	AA	1947068139
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SNP_P4_193273_20603	NW_004521507.1	Scaffold8877	20603	AA	TT	1947068147
SNP_P4_193274_20652	NW_004521507.1	Scaffold8877	20652	CC	AA	1947068149
SNP_P4_193275_20752	NW_004521507.1	Scaffold8877	20752	GG	TT	1947068151
SNP_P4_193277_20795	NW_004521507.1	Scaffold8877	20795	AA	GG	1947068153
SNP_P4_193278_420	NW_004521509.1	Scaffold8881	420	CC	AA	1947068155
SNP_P4_193279_461	NW_004521509.1	Scaffold8881	461	TT	CC	1947068157
SNP_P4_193280_470	NW_004521509.1	Scaffold8881	470	AA	CC	1947068158
SNP_P4_193282_492	NW_004521509.1	Scaffold8881	492	GG	TT	1947068159

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SNP_P4_193284_723	NW_004521514.1	Scaffold8892	723	CC	AA	1947068161
SNP_P4_193285_962	NW_004521514.1	Scaffold8892	962	AA	TT	1947068163
SNP_P4_193286_743	NW_004521517.1	Scaffold8897	743	AA	GG	1947068165
SNP_P4_193287_785	NW_004521517.1	Scaffold8897	785	TT	CC	1947068167
SNP_P4_193288_872	NW_004521517.1	Scaffold8897	872	TT	CC	1947068169
SNP_P4_193289_874	NW_004521517.1	Scaffold8897	874	CC	TT	1947068171
SNP_P4_193290_932	NW_004521517.1	Scaffold8897	932	GG	AA	1947068173
SNP_P4_193291_1095	NW_004521517.1	Scaffold8897	1095	AA	GG	1947068175
SNP_P4_193292_1133	NW_004521517.1	Scaffold8897	1133	CC	TT	1947068177
SNP_P4_193293_1167	NW_004521517.1	Scaffold8897	1167	TT	CC	1947068179
SNP_P4_193294_1184	NW_004521517.1	Scaffold8897	1184	TT	GG	1947068181
SNP_P4_193295_1196	NW_004521517.1	Scaffold8897	1196	TT	GG	1947068183
SNP_P4_193296_1134	NW_004521520.1	Scaffold8903	1134	GG	CC	1947068185
SNP_P4_193297_1186	NW_004521520.1	Scaffold8903	1186	GG	AA	1947068187
SNP_P4_193298_534	NW_004521521.1	Scaffold8907	534	AA	TT	1947068189
SNP_P4_193299_886	NW_004521521.1	Scaffold8907	886	GG	AA	1947068191
SNP_P4_193300_1269	NW_004521522.1	Scaffold8913	1269	CC	TT	1947068193
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SNP_P4_193302_1281	NW_004521522.1	Scaffold8913	1281	CC	TT	1947068197
SNP_P4_193303_1297	NW_004521522.1	Scaffold8913	1297	GG	AA	1947068199
SNP_P4_193304_1753	NW_004521522.1	Scaffold8913	1753	GG	AA	1947068201
SNP_P4_193305_1779	NW_004521522.1	Scaffold8913	1779	GG	AA	1947068203
SNP_P4_193306_1835	NW_004521522.1	Scaffold8913	1835	CC	TT	1947068205
SNP_P4_193307_1880	NW_004521522.1	Scaffold8913	1880	TT	CC	1947068207
SNP_P4_193308_1901	NW_004521522.1	Scaffold8913	1901	CC	GG	1947068209
SNP_P4_193309_1902	NW_004521522.1	Scaffold8913	1902	GG	CC	1947068211
SNP_P4_193310_1909	NW_004521522.1	Scaffold8913	1909	GG	CC	1947068213
SNP_P4_193311_1925	NW_004521522.1	Scaffold8913	1925	GG	TT	1947068215
SNP_P4_193312_2079	NW_004521522.1	Scaffold8913	2079	CC	AA	1947068217
SNP_P4_193313_2109	NW_004521522.1	Scaffold8913	2109	AA	GG	1947068219
SNP_P4_193314_2147	NW_004521522.1	Scaffold8913	2147	AA	TT	1947068221
SNP_P4_193315_2152	NW_004521522.1	Scaffold8913	2152	TT	GG	1947068223
SNP_P4_193316_2285	NW_004521522.1	Scaffold8913	2285	AA	TT	1947068225
SNP_P4_193317_2558	NW_004521522.1	Scaffold8913	2558	AA	TT	1947068227
SNP_P4_193318_2638	NW_004521522.1	Scaffold8913	2638	AA	TT	1947068229
SNP_P4_193319_1733	NW_004521527.1	Scaffold8926	1733	CC	TT	1947068231
SNP_P4_193320_1744	NW_004521527.1	Scaffold8926	1744	GG	AA	1947068233
SNP_P4_193321_1749	NW_004521527.1	Scaffold8926	1749	GG	AA	1947068235
SNP_P4_193322_1767	NW_004521527.1	Scaffold8926	1767	TT	CC	1947068237
SNP_P4_193323_402	NW_004521528.1	Scaffold8930	402	AA	TT	1947068240
SNP_P4_193325_752	NW_004521528.1	Scaffold8930	752	GG	TT	1947068242

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_193326_796	NW_004521533.1	Scaffold8943	796	CC	TT	1947068244
SNP_P4_193327_830	NW_004521533.1	Scaffold8943	830	AA	CC	1947068246
SNP_P4_193328_960	NW_004521533.1	Scaffold8943	960	CC	TT	1947068248
SNP_P4_193329_996	NW_004521533.1	Scaffold8943	996	CC	AA	1947068250
SNP_P4_193330_64	NW_004521539.1	Scaffold8960	64	CC	TT	1947068252
SNP_P4_193331_99	NW_004521539.1	Scaffold8960	99	AA	GG	1947068254
SNP_P4_193332_104	NW_004521539.1	Scaffold8960	104	AA	GG	1947068256
SNP_P4_193333_535	NW_004521539.1	Scaffold8960	535	TT	CC	1947068258
SNP_P4_193334_647	NW_004521539.1	Scaffold8960	647	GG	AA	1947068260
SNP_P4_193335_708	NW_004521539.1	Scaffold8960	708	GG	AA	1947068262
SNP_P4_193336_523	NW_004521541.1	Scaffold8962	523	AA	GG	1947068264
SNP_P4_193337_1656	NW_004521542.1	Scaffold8964	1656	CC	AA	1947068266
SNP_P4_193338_1966	NW_004521542.1	Scaffold8964	1966	CC	TT	1947068268
SNP_P4_193339_856	NW_004521544.1	Scaffold8967	856	AA	GG	1947068270
SNP_P4_193340_939	NW_004521544.1	Scaffold8967	939	GG	TT	1947068272
SNP_P4_193341_732	NW_004521545.1	Scaffold8968	732	TT	AA	1947068274
SNP_P4_193342_753	NW_004521545.1	Scaffold8968	753	AA	GG	1947068276
SNP_P4_193343_1377	NW_004521545.1	Scaffold8968	1377	AA	TT	1947068278
SNP_P4_193344_1083	NW_004521552.1	Scaffold8987	1083	CC	TT	1947068280
SNP_P4_193345_1414	NW_004521552.1	Scaffold8987	1414	TT	CC	1947068282
SNP_P4_193346_6168	NW_004521553.1	Scaffold8989	6168	TT	CC	1947068284
SNP_P4_193347_475	NW_004521554.1	Scaffold8990	475	TT	CC	1947068286
SNP_P4_193348_479	NW_004521554.1	Scaffold8990	479	AA	TT	1947068288
SNP_P4_193349_518	NW_004521554.1	Scaffold8990	518	AA	TT	1947068290
SNP_P4_193350_661	NW_004521554.1	Scaffold8990	661	GG	AA	1947068292
SNP_P4_193351_998	NW_004521554.1	Scaffold8990	998	GG	CC	1947068294
SNP_P4_193352_1132	NW_004521554.1	Scaffold8990	1132	GG	TT	1947068296
SNP_P4_193353_1254	NW_004521554.1	Scaffold8990	1254	CC	TT	1947068298
SNP_P4_193354_1393	NW_004521554.1	Scaffold8990	1393	TT	CC	1947068300
SNP_P4_193355_5884	NW_004521554.1	Scaffold8990	5884	TT	AA	1947068302
SNP_P4_193356_6246	NW_004521554.1	Scaffold8990	6246	TT	CC	1947068304
SNP_P4_193357_852	NW_004521558.1	Scaffold8999	852	AA	TT	1947068306
SNP_P4_193358_856	NW_004521558.1	Scaffold8999	856	AA	TT	1947068308
SNP_P4_193359_1360	NW_004521558.1	Scaffold8999	1360	CC	TT	1947068310
SNP_P4_193360_1366	NW_004521558.1	Scaffold8999	1366	CC	GG	1947068312
SNP_P4_193361_1422	NW_004521558.1	Scaffold8999	1422	AA	CC	1947068314
SNP_P4_193363_622	NW_004521559.1	Scaffold9000	622	AA	TT	1947068316
SNP_P4_193364_3003	NW_004521559.1	Scaffold9000	3003	AA	GG	1947068318
SNP_P4_193365_3290	NW_004521559.1	Scaffold9000	3290	AA	CC	1947068320
SNP_P4_193366_425	NW_004521560.1	Scaffold9003	425	CC	TT	1947068322
SNP_P4_193367_1232	NW_004521562.1	Scaffold9006	1232	GG	AA	1947068324
SNP_P4_193368_1247	NW_004521562.1	Scaffold9006	1247	AA	TT	1947068326

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_193370_494	NW_004521566.1	Scaffold9020	494	GG	AA	1947068330
SNP_P4_193371_997	NW_004521566.1	Scaffold9020	997	CC	AA	1947068332
SNP_P4_193372_1004	NW_004521566.1	Scaffold9020	1004	TT	AA	1947068334
SNP_P4_193373_1074	NW_004521566.1	Scaffold9020	1074	GG	AA	1947068336
SNP_P4_193374_1092	NW_004521566.1	Scaffold9020	1092	TT	CC	1947068338
SNP_P4_193375_1465	NW_004521566.1	Scaffold9020	1465	TT	CC	1947068340
SNP_P4_193377_94	NW_004521568.1	Scaffold9023	94	GG	TT	1947068342
SNP_P4_193378_116	NW_004521568.1	Scaffold9023	116	AA	GG	1947068344
SNP_P4_193379_153	NW_004521568.1	Scaffold9023	153	CC	AA	1947068346
SNP_P4_193380_166	NW_004521568.1	Scaffold9023	166	AA	GG	1947068348
SNP_P4_193381_229	NW_004521568.1	Scaffold9023	229	TT	GG	1947068351
SNP_P4_193382_252	NW_004521568.1	Scaffold9023	252	CC	TT	1947068353
SNP_P4_193383_323	NW_004521568.1	Scaffold9023	323	GG	TT	1947068355
SNP_P4_193384_515	NW_004521568.1	Scaffold9023	515	GG	AA	1947068357
SNP_P4_193385_537	NW_004521568.1	Scaffold9023	537	TT	CC	1947068359
SNP_P4_193386_662	NW_004521568.1	Scaffold9023	662	CC	TT	1947068361
SNP_P4_193387_675	NW_004521568.1	Scaffold9023	675	CC	TT	1947068363
SNP_P4_193388_734	NW_004521568.1	Scaffold9023	734	AA	CC	1947068365
SNP_P4_193389_864	NW_004521568.1	Scaffold9023	864	AA	GG	1947068367
SNP_P4_193390_909	NW_004521568.1	Scaffold9023	909	AA	GG	1947068369
SNP_P4_193391_972	NW_004521568.1	Scaffold9023	972	GG	AA	1947068371
SNP_P4_193392_1005	NW_004521568.1	Scaffold9023	1005	CC	TT	1947068373
SNP_P4_193393_1006	NW_004521568.1	Scaffold9023	1006	AA	GG	1947068375
SNP_P4_193394_1062	NW_004521568.1	Scaffold9023	1062	GG	AA	1947068377
SNP_P4_193395_1506	NW_004521569.1	Scaffold9024	1506	CC	AA	1947068379
SNP_P4_193396_1666	NW_004521569.1	Scaffold9024	1666	AA	GG	1947068381
SNP_P4_193398_119	NW_004521571.1	Scaffold9026	119	AA	CC	1947068383
SNP_P4_193399_1241	NW_004521571.1	Scaffold9026	1241	AA	TT	1947068385
SNP_P4_193400_99	NW_004521572.1	Scaffold9028	99	AA	GG	1947068387
SNP_P4_193401_274	NW_004521572.1	Scaffold9028	274	CC	AA	1947068389
SNP_P4_193402_423	NW_004521572.1	Scaffold9028	423	AA	CC	1947068391
SNP_P4_193403_440	NW_004521572.1	Scaffold9028	440	AA	GG	1947068393
SNP_P4_193404_556	NW_004521572.1	Scaffold9028	556	CC	GG	1947068395
SNP_P4_193405_569	NW_004521572.1	Scaffold9028	569	AA	GG	1947068397
SNP_P4_193406_581	NW_004521572.1	Scaffold9028	581	CC	GG	1947068399
SNP_P4_193407_615	NW_004521572.1	Scaffold9028	615	CC	AA	1947068401
SNP_P4_193408_627	NW_004521572.1	Scaffold9028	627	CC	TT	1947068403
SNP_P4_193409_664	NW_004521572.1	Scaffold9028	664	TT	GG	1947068405
SNP_P4_193410_715	NW_004521572.1	Scaffold9028	715	GG	CC	1947068407
SNP_P4_193411_98	NW_004521573.1	Scaffold9030	98	TT	CC	1947068409
SNP_P4_193412_190	NW_004521575.1	Scaffold9037	190	AA	GG	1947068411

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_193414_35	NW_004521576.1	Scaffold9043	35	AA	CC	1947068415
SNP_P4_193415_97	NW_004521576.1	Scaffold9043	97	AA	GG	1947068417
SNP_P4_193416_392	NW_004521576.1	Scaffold9043	392	CC	GG	1947068419
SNP_P4_193417_787	NW_004521576.1	Scaffold9043	787	TT	CC	1947068421
SNP_P4_193418_3343	NW_004521578.1	Scaffold9048	3343	AA	GG	1947068423
SNP_P4_193419_3382	NW_004521578.1	Scaffold9048	3382	AA	GG	1947068425
SNP_P4_193420_486	NW_004521581.1	Scaffold9059	486	TT	CC	1947068427
SNP_P4_193422_694	NW_004521581.1	Scaffold9059	694	AA	CC	1947068429
SNP_P4_193423_808	NW_004521581.1	Scaffold9059	808	AA	GG	1947068431
SNP_P4_193424_942	NW_004521581.1	Scaffold9059	942	AA	GG	1947068433
SNP_P4_193425_1263	NW_004521581.1	Scaffold9059	1263	TT	AA	1947068435
SNP_P4_193426_1264	NW_004521581.1	Scaffold9059	1264	AA	TT	1947068437
SNP_P4_193427_1265	NW_004521581.1	Scaffold9059	1265	GG	AA	1947068439
SNP_P4_193428_97	NW_004521584.1	Scaffold9070	97	AA	GG	1947068441
SNP_P4_193429_680	NW_004521584.1	Scaffold9070	680	CC	TT	1947068443
SNP_P4_193430_1156	NW_004521584.1	Scaffold9070	1156	TT	AA	1947068445
SNP_P4_193432_591	NW_004521585.1	Scaffold9074	591	CC	TT	1947068447
SNP_P4_193434_1047	NW_004521585.1	Scaffold9074	1047	CC	GG	1947068449
SNP_P4_193436_596	NW_004521588.1	Scaffold9079	596	GG	TT	1947068451
SNP_P4_193437_640	NW_004521588.1	Scaffold9079	640	GG	AA	1947068453
SNP_P4_193438_982	NW_004521588.1	Scaffold9079	982	CC	AA	1947068455
SNP_P4_193439_5005	NW_004521593.1	Scaffold9086	5005	TT	CC	1947068457
SNP_P4_193440_5015	NW_004521593.1	Scaffold9086	5015	AA	CC	1947068459
SNP_P4_193441_5353	NW_004521593.1	Scaffold9086	5353	AA	GG	1947068461
SNP_P4_193442_5435	NW_004521593.1	Scaffold9086	5435	TT	GG	1947068463
SNP_P4_193443_5503	NW_004521593.1	Scaffold9086	5503	GG	AA	1947068465
SNP_P4_193444_5633	NW_004521593.1	Scaffold9086	5633	GG	AA	1947068467
SNP_P4_193445_1486	NW_004521595.1	Scaffold9095	1486	TT	CC	1947068469
SNP_P4_193446_1497	NW_004521595.1	Scaffold9095	1497	AA	TT	1947068471
SNP_P4_193447_1230	NW_004521598.1	Scaffold9106	1230	CC	TT	1947068473
SNP_P4_193448_1232	NW_004521598.1	Scaffold9106	1232	GG	AA	1947068475
SNP_P4_193449_1276	NW_004521598.1	Scaffold9106	1276	AA	TT	1947068477
SNP_P4_193450_542	NW_004521601.1	Scaffold9112	542	TT	GG	1947068479
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SNP_P4_193453_666	NW_004521603.1	Scaffold9118	666	CC	TT	1947068485
SNP_P4_193454_1134	NW_004521604.1	Scaffold9122	1134	GG	AA	1947068487
SNP_P4_193455_1439	NW_004521604.1	Scaffold9122	1439	TT	CC	1947068489
SNP_P4_193456_1542	NW_004521604.1	Scaffold9122	1542	AA	GG	1947068491
SNP_P4_193457_1566	NW_004521604.1	Scaffold9122	1566	GG	AA	1947068493
SNP_P4_193458_2014	NW_004521604.1	Scaffold9122	2014	CC	AA	1947068495

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_193460_6017	NW_004521604.1	Scaffold9122	6017	GG	AA	1947068499
SNP_P4_193461_239	NW_004521605.1	Scaffold9125	239	AA	GG	1947068501
SNP_P4_193462_260	NW_004521605.1	Scaffold9125	260	TT	GG	1947068503
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SNP_P4_193464_382	NW_004521605.1	Scaffold9125	382	AA	GG	1947068507
SNP_P4_193465_654	NW_004521605.1	Scaffold9125	654	CC	TT	1947068509
SNP_P4_193466_732	NW_004521605.1	Scaffold9125	732	TT	CC	1947068511
SNP_P4_193467_766	NW_004521605.1	Scaffold9125	766	AA	GG	1947068513
SNP_P4_193468_1452	NW_004521605.1	Scaffold9125	1452	CC	GG	1947068515
SNP_P4_193470_4727	NW_004521605.1	Scaffold9125	4727	GG	TT	1947068517
SNP_P4_193471_1048	NW_004521609.1	Scaffold9135	1048	AA	GG	1947068519
SNP_P4_193472_1049	NW_004521609.1	Scaffold9135	1049	TT	AA	1947068521
SNP_P4_193473_1118	NW_004521609.1	Scaffold9135	1118	TT	AA	1947068523
SNP_P4_193474_908	NW_004521612.1	Scaffold9149	908	AA	GG	1947068525
SNP_P4_193475_963	NW_004521612.1	Scaffold9149	963	GG	CC	1947068527
SNP_P4_193476_1015	NW_004521612.1	Scaffold9149	1015	AA	TT	1947068529
SNP_P4_193477_1155	NW_004521612.1	Scaffold9149	1155	AA	GG	1947068531
SNP_P4_193478_1257	NW_004521612.1	Scaffold9149	1257	TT	AA	1947068533
SNP_P4_193479_1261	NW_004521612.1	Scaffold9149	1261	GG	AA	1947068535
SNP_P4_193480_1293	NW_004521612.1	Scaffold9149	1293	TT	CC	1947068537
SNP_P4_193482_736	NW_004521619.1	Scaffold9168	736	GG	AA	1947068539
SNP_P4_193483_1012	NW_004521620.1	Scaffold9171	1012	AA	GG	1947068541
SNP_P4_193484_1365	NW_004521620.1	Scaffold9171	1365	AA	GG	1947068543
SNP_P4_193485_382	NW_004521621.1	Scaffold9172	382	TT	GG	1947068545
SNP_P4_193486_2061	NW_004521625.1	Scaffold9185	2061	TT	AA	1947068547
SNP_P4_193487_2108	NW_004521625.1	Scaffold9185	2108	CC	TT	1947068549
SNP_P4_193488_145	NW_004521630.1	Scaffold9195	145	CC	GG	1947068551
SNP_P4_193489_241	NW_004521630.1	Scaffold9195	241	CC	AA	1947068553
SNP_P4_193491_674	NW_004521630.1	Scaffold9195	674	GG	AA	1947068555
SNP_P4_193492_710	NW_004521630.1	Scaffold9195	710	TT	AA	1947068557
SNP_P4_193493_1072	NW_004521630.1	Scaffold9195	1072	AA	TT	1947068559
SNP_P4_193494_453	NW_004521631.1	Scaffold9197	453	GG	TT	1947068561
SNP_P4_193495_458	NW_004521631.1	Scaffold9197	458	AA	CC	1947068563
SNP_P4_193496_772	NW_004521633.1	Scaffold9210	772	AA	GG	1947068565
SNP_P4_193497_1230	NW_004521633.1	Scaffold9210	1230	TT	AA	1947068567
SNP_P4_193498_1231	NW_004521633.1	Scaffold9210	1231	GG	AA	1947068569
SNP_P4_193499_1232	NW_004521633.1	Scaffold9210	1232	AA	GG	1947068571
SNP_P4_193500_1288	NW_004521633.1	Scaffold9210	1288	TT	GG	1947068573
SNP_P4_193503_963	NW_004521634.1	Scaffold9211	963	GG	CC	1947068575
SNP_P4_193504_355	NW_004521635.1	Scaffold9216	355	AA	CC	1947068577
SNP_P4_193505_363	NW_004521635.1	Scaffold9216	363	TT	CC	1947068579

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_193507_377	NW_004521635.1	Scaffold9216	377	CC	GG	1947068583
SNP_P4_193508_379	NW_004521635.1	Scaffold9216	379	TT	AA	1947068585
SNP_P4_193509_535	NW_004521635.1	Scaffold9216	535	TT	CC	1947068587
SNP_P4_193510_585	NW_004521635.1	Scaffold9216	585	AA	TT	1947068589
SNP_P4_193511_1155	NW_004521635.1	Scaffold9216	1155	GG	TT	1947068591
SNP_P4_193512_1520	NW_004521635.1	Scaffold9216	1520	CC	GG	1947068593
SNP_P4_193513_367	NW_004521639.1	Scaffold9223	367	AA	CC	1947068595
SNP_P4_193514_625	NW_004521644.1	Scaffold9236	625	TT	AA	1947068597
SNP_P4_193515_1073	NW_004521644.1	Scaffold9236	1073	AA	CC	1947068599
SNP_P4_193516_1110	NW_004521644.1	Scaffold9236	1110	AA	GG	1947068601
SNP_P4_193518_1681	NW_004521644.1	Scaffold9236	1681	TT	CC	1947068603
SNP_P4_193519_1810	NW_004521644.1	Scaffold9236	1810	GG	CC	1947068605
SNP_P4_193520_1812	NW_004521644.1	Scaffold9236	1812	GG	CC	1947068607
SNP_P4_193521_396	NW_004521645.1	Scaffold9240	396	TT	CC	1947068609
SNP_P4_193522_777	NW_004521645.1	Scaffold9240	777	GG	CC	1947068611
SNP_P4_193523_789	NW_004521645.1	Scaffold9240	789	CC	TT	1947068613
SNP_P4_193524_1774	NW_004521645.1	Scaffold9240	1774	AA	CC	1947068615
SNP_P4_193525_32	NW_004521649.1	Scaffold9247	32	AA	GG	1947068617
SNP_P4_193526_64	NW_004521649.1	Scaffold9247	64	GG	AA	1947068619
SNP_P4_193527_99	NW_004521649.1	Scaffold9247	99	AA	GG	1947068621
SNP_P4_193528_100	NW_004521649.1	Scaffold9247	100	TT	AA	1947068623
SNP_P4_193529_399	NW_004521649.1	Scaffold9247	399	AA	TT	1947068625
SNP_P4_193531_92	NW_004521652.1	Scaffold9252	92	TT	GG	1947068627
SNP_P4_193532_324	NW_004521652.1	Scaffold9252	324	AA	TT	1947068629
SNP_P4_193533_1130	NW_004521654.1	Scaffold9257	1130	TT	GG	1947068631
SNP_P4_193534_976	NW_004521655.1	Scaffold9258	976	AA	GG	1947068633
SNP_P4_193535_1152	NW_004521655.1	Scaffold9258	1152	CC	AA	1947068635
SNP_P4_193536_1189	NW_004521655.1	Scaffold9258	1189	AA	TT	1947068637
SNP_P4_193537_1220	NW_004521655.1	Scaffold9258	1220	TT	CC	1947068639
SNP_P4_193538_20015	NW_004521659.1	Scaffold9267	20015	TT	CC	1947068641
SNP_P4_193539_20017	NW_004521659.1	Scaffold9267	20017	AA	CC	1947068643
SNP_P4_193540_20040	NW_004521659.1	Scaffold9267	20040	CC	GG	1947068645
SNP_P4_193541_20044	NW_004521659.1	Scaffold9267	20044	TT	CC	1947068647
SNP_P4_193542_20045	NW_004521659.1	Scaffold9267	20045	TT	AA	1947068649
SNP_P4_193543_20497	NW_004521659.1	Scaffold9267	20497	CC	TT	1947068651
SNP_P4_193544_20508	NW_004521659.1	Scaffold9267	20508	AA	CC	1947068653
SNP_P4_193545_486	NW_004521664.1	Scaffold9279	486	AA	TT	1947068655
SNP_P4_193546_833	NW_004521664.1	Scaffold9279	833	AA	GG	1947068657
SNP_P4_193547_64	NW_004521666.1	Scaffold9281	64	GG	TT	1947068659
SNP_P4_193548_101	NW_004521666.1	Scaffold9281	101	AA	CC	1947068661
SNP_P4_193549_129	NW_004521666.1	Scaffold9281	129	CC	AA	1947068663

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_193550_149	NW_004521666.1	Scaffold9281	149	GG	AA	1947068665
SNP_P4_193551_349	NW_004521666.1	Scaffold9281	349	TT	CC	1947068667
SNP_P4_193552_350	NW_004521666.1	Scaffold9281	350	GG	AA	1947068669
SNP_P4_193553_359	NW_004521666.1	Scaffold9281	359	AA	GG	1947068671
SNP_P4_193554_378	NW_004521666.1	Scaffold9281	378	CC	TT	1947068673
SNP_P4_193555_493	NW_004521666.1	Scaffold9281	493	GG	AA	1947068675
SNP_P4_193556_555	NW_004521666.1	Scaffold9281	555	TT	AA	1947068677
SNP_P4_193557_588	NW_004521666.1	Scaffold9281	588	AA	GG	1947068679
SNP_P4_193558_739	NW_004521666.1	Scaffold9281	739	CC	TT	1947068681
SNP_P4_193559_772	NW_004521666.1	Scaffold9281	772	AA	GG	1947068684
SNP_P4_193560_3463	NW_004521666.1	Scaffold9281	3463	CC	TT	1947068686
SNP_P4_193561_3606	NW_004521666.1	Scaffold9281	3606	TT	CC	1947068688
SNP_P4_193562_3649	NW_004521666.1	Scaffold9281	3649	CC	AA	1947068690
SNP_P4_193563_3775	NW_004521666.1	Scaffold9281	3775	GG	CC	1947068692
SNP_P4_193564_4003	NW_004521666.1	Scaffold9281	4003	AA	CC	1947068694
SNP_P4_193565_4136	NW_004521666.1	Scaffold9281	4136	TT	CC	1947068696
SNP_P4_193566_4145	NW_004521666.1	Scaffold9281	4145	TT	AA	1947068698
SNP_P4_193567_4193	NW_004521666.1	Scaffold9281	4193	GG	AA	1947068700
SNP_P4_193568_4214	NW_004521666.1	Scaffold9281	4214	AA	GG	1947068702
SNP_P4_193569_4221	NW_004521666.1	Scaffold9281	4221	GG	AA	1947068704
SNP_P4_193570_5143	NW_004521666.1	Scaffold9281	5143	CC	AA	1947068706
SNP_P4_193571_104	NW_004521668.1	Scaffold9287	104	TT	GG	1947068708
SNP_P4_193572_505	NW_004521668.1	Scaffold9287	505	TT	CC	1947068710
SNP_P4_193573_1198	NW_004521671.1	Scaffold9294	1198	CC	GG	1947068712
SNP_P4_193574_1447	NW_004521671.1	Scaffold9294	1447	AA	GG	1947068714
SNP_P4_193575_1494	NW_004521671.1	Scaffold9294	1494	AA	CC	1947068716
SNP_P4_193576_64	NW_004521672.1	Scaffold9295	64	GG	TT	1947068718
SNP_P4_193577_64	NW_004521673.1	Scaffold9303	64	AA	CC	1947068720
SNP_P4_193578_82	NW_004521673.1	Scaffold9303	82	CC	TT	1947068722
SNP_P4_193579_137	NW_004521673.1	Scaffold9303	137	TT	CC	1947068724
SNP_P4_193580_142	NW_004521673.1	Scaffold9303	142	TT	CC	1947068726
SNP_P4_193581_1063	NW_004521673.1	Scaffold9303	1063	TT	CC	1947068728
SNP_P4_193583_1210	NW_004521673.1	Scaffold9303	1210	TT	GG	1947068730
SNP_P4_193584_1228	NW_004521673.1	Scaffold9303	1228	AA	TT	1947068732
SNP_P4_193585_1230	NW_004521673.1	Scaffold9303	1230	TT	AA	1947068734
SNP_P4_193586_1494	NW_004521673.1	Scaffold9303	1494	AA	TT	1947068736
SNP_P4_193588_915	NW_004521678.1	Scaffold9314	915	CC	GG	1947068738
SNP_P4_193589_979	NW_004521678.1	Scaffold9314	979	AA	TT	1947068740
SNP_P4_193590_1009	NW_004521678.1	Scaffold9314	1009	CC	GG	1947068742
SNP_P4_193591_1436	NW_004521678.1	Scaffold9314	1436	GG	AA	1947068744
SNP_P4_193592_1447	NW_004521680.1	Scaffold9321	1447	GG	AA	1947068746
SNP_P4_193593_1650	NW_004521680.1	Scaffold9321	1650	TT	GG	1947068748

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_193594_1949	NW_004521680.1	Scaffold9321	1949	GG	TT	1947068750
SNP_P4_193595_1970	NW_004521680.1	Scaffold9321	1970	AA	TT	1947068752
SNP_P4_193596_874	NW_004521681.1	Scaffold9322	874	AA	GG	1947068754
SNP_P4_193597_876	NW_004521682.1	Scaffold9323	876	CC	AA	1947068756
SNP_P4_193598_909	NW_004521682.1	Scaffold9323	909	CC	TT	1947068758
SNP_P4_193599_4545	NW_004521682.1	Scaffold9323	4545	GG	AA	1947068760
SNP_P4_193600_4588	NW_004521682.1	Scaffold9323	4588	TT	CC	1947068762
SNP_P4_193601_5829	NW_004521682.1	Scaffold9323	5829	AA	GG	1947068764
SNP_P4_193602_343	NW_004521684.1	Scaffold9325	343	TT	CC	1947068766
SNP_P4_193603_186	NW_004521685.1	Scaffold9326	186	GG	AA	1947068768
SNP_P4_193604_194	NW_004521685.1	Scaffold9326	194	GG	AA	1947068770
SNP_P4_193605_199	NW_004521685.1	Scaffold9326	199	CC	GG	1947068772
SNP_P4_193606_253	NW_004521685.1	Scaffold9326	253	TT	AA	1947068774
SNP_P4_193607_531	NW_004521685.1	Scaffold9326	531	AA	CC	1947068776
SNP_P4_193608_601	NW_004521685.1	Scaffold9326	601	AA	TT	1947068778
SNP_P4_193609_602	NW_004521685.1	Scaffold9326	602	TT	CC	1947068780
SNP_P4_193610_689	NW_004521685.1	Scaffold9326	689	TT	AA	1947068782
SNP_P4_193611_753	NW_004521685.1	Scaffold9326	753	AA	TT	1947068784
SNP_P4_193612_853	NW_004521685.1	Scaffold9326	853	GG	AA	1947068786
SNP_P4_193613_1082	NW_004521687.1	Scaffold9334	1082	TT	AA	1947068788
SNP_P4_193614_1779	NW_004521687.1	Scaffold9334	1779	AA	TT	1947068790
SNP_P4_193615_2049	NW_004521687.1	Scaffold9334	2049	AA	TT	1947068791
SNP_P4_193616_2087	NW_004521687.1	Scaffold9334	2087	TT	AA	1947068794
SNP_P4_193617_764	NW_004521688.1	Scaffold9344	764	TT	AA	1947068796
SNP_P4_193618_229	NW_004521697.1	Scaffold9361	229	GG	TT	1947068798
SNP_P4_193619_294	NW_004521697.1	Scaffold9361	294	GG	AA	1947068800
SNP_P4_193620_696	NW_004521697.1	Scaffold9361	696	CC	TT	1947068802
SNP_P4_193621_20332	NW_004521699.1	Scaffold9363	20332	AA	CC	1947068804
SNP_P4_193622_845	NW_004521700.1	Scaffold9367	845	AA	TT	1947068806
SNP_P4_193623_847	NW_004521700.1	Scaffold9367	847	TT	GG	1947068808
SNP_P4_193624_18	NW_004521702.1	Scaffold9371	18	CC	TT	1947068810
SNP_P4_193625_64	NW_004521702.1	Scaffold9371	64	CC	GG	1947068812
SNP_P4_193626_102	NW_004521702.1	Scaffold9371	102	GG	AA	1947068814
SNP_P4_193627_123	NW_004521702.1	Scaffold9371	123	TT	AA	1947068816
SNP_P4_193628_124	NW_004521702.1	Scaffold9371	124	GG	AA	1947068818
SNP_P4_193629_133	NW_004521702.1	Scaffold9371	133	GG	TT	1947068820
SNP_P4_193632_252	NW_004521702.1	Scaffold9371	252	GG	AA	1947068822
SNP_P4_193633_296	NW_004521702.1	Scaffold9371	296	GG	CC	1947068824
SNP_P4_193634_305	NW_004521702.1	Scaffold9371	305	AA	TT	1947068826
SNP_P4_193635_309	NW_004521702.1	Scaffold9371	309	CC	AA	1947068828
SNP_P4_193636_331	NW_004521702.1	Scaffold9371	331	TT	CC	1947068830
SNP_P4_193637_363	NW_004521702.1	Scaffold9371	363	AA	GG	1947068832

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_193638_396	NW_004521702.1	Scaffold9371	396	TT	CC	1947068834
SNP_P4_193639_426	NW_004521702.1	Scaffold9371	426	AA	CC	1947068836
SNP_P4_193640_470	NW_004521702.1	Scaffold9371	470	GG	AA	1947068838
SNP_P4_193641_482	NW_004521702.1	Scaffold9371	482	AA	TT	1947068840
SNP_P4_193642_486	NW_004521702.1	Scaffold9371	486	AA	TT	1947068841
SNP_P4_193643_504	NW_004521702.1	Scaffold9371	504	GG	AA	1947068843
SNP_P4_193644_554	NW_004521702.1	Scaffold9371	554	AA	CC	1947068845
SNP_P4_193645_619	NW_004521702.1	Scaffold9371	619	TT	AA	1947068847
SNP_P4_193647_641	NW_004521702.1	Scaffold9371	641	AA	CC	1947068849
SNP_P4_193648_649	NW_004521702.1	Scaffold9371	649	AA	GG	1947068851
SNP_P4_193649_678	NW_004521702.1	Scaffold9371	678	GG	CC	1947068853
SNP_P4_193650_783	NW_004521702.1	Scaffold9371	783	TT	AA	1947068855
SNP_P4_193651_806	NW_004521702.1	Scaffold9371	806	AA	GG	1947068857
SNP_P4_193652_807	NW_004521702.1	Scaffold9371	807	CC	TT	1947068859
SNP_P4_193653_1068	NW_004521704.1	Scaffold9374	1068	GG	AA	1947068861
SNP_P4_193656_836	NW_004521705.1	Scaffold9375	836	TT	AA	1947068863
SNP_P4_193657_1148	NW_004521705.1	Scaffold9375	1148	AA	GG	1947068865
SNP_P4_193658_1193	NW_004521705.1	Scaffold9375	1193	TT	CC	1947068867
SNP_P4_193659_325	NW_004521706.1	Scaffold9377	325	GG	AA	1947068869
SNP_P4_193660_87	NW_004521712.1	Scaffold9391	87	CC	TT	1947068871
SNP_P4_193662_732	NW_004521712.1	Scaffold9391	732	TT	GG	1947068873
SNP_P4_193663_477	NW_004521716.1	Scaffold9396	477	TT	CC	1947068875
SNP_P4_193664_501	NW_004521716.1	Scaffold9396	501	GG	AA	1947068877
SNP_P4_193665_565	NW_004521716.1	Scaffold9396	565	TT	CC	1947068879
SNP_P4_193666_633	NW_004521716.1	Scaffold9396	633	CC	GG	1947068881
SNP_P4_193667_655	NW_004521716.1	Scaffold9396	655	AA	GG	1947068883
SNP_P4_193668_672	NW_004521716.1	Scaffold9396	672	AA	GG	1947068885
SNP_P4_193669_725	NW_004521716.1	Scaffold9396	725	TT	CC	1947068887
SNP_P4_193670_928	NW_004521716.1	Scaffold9396	928	CC	TT	1947068889
SNP_P4_193671_958	NW_004521716.1	Scaffold9396	958	TT	AA	1947068891
SNP_P4_193672_985	NW_004521716.1	Scaffold9396	985	TT	CC	1947068893
SNP_P4_193673_1013	NW_004521716.1	Scaffold9396	1013	TT	CC	1947068895
SNP_P4_193674_652	NW_004521719.1	Scaffold9402	652	CC	AA	1947068897
SNP_P4_193675_653	NW_004521719.1	Scaffold9402	653	GG	AA	1947068899
SNP_P4_193676_657	NW_004521719.1	Scaffold9402	657	GG	TT	1947068901
SNP_P4_193677_713	NW_004521719.1	Scaffold9402	713	AA	GG	1947068903
SNP_P4_193678_2682	NW_004521721.1	Scaffold9411	2682	TT	AA	1947068905
SNP_P4_193679_2858	NW_004521721.1	Scaffold9411	2858	AA	TT	1947068907
SNP_P4_193680_2882	NW_004521721.1	Scaffold9411	2882	TT	CC	1947068909
SNP_P4_193682_3153	NW_004521721.1	Scaffold9411	3153	TT	CC	1947068911
SNP_P4_193683_3165	NW_004521721.1	Scaffold9411	3165	GG	AA	1947068913
SNP_P4_193684_3329	NW_004521721.1	Scaffold9411	3329	TT	AA	1947068915

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_193686_3502	NW_004521721.1	Scaffold9411	3502	AA	GG	1947068919
SNP_P4_193688_3749	NW_004521721.1	Scaffold9411	3749	TT	AA	1947068921
SNP_P4_193689_3782	NW_004521721.1	Scaffold9411	3782	TT	GG	1947068923
SNP_P4_193690_3789	NW_004521721.1	Scaffold9411	3789	AA	TT	1947068925
SNP_P4_193692_5655	NW_004521721.1	Scaffold9411	5655	TT	GG	1947068927
SNP_P4_193693_5694	NW_004521721.1	Scaffold9411	5694	GG	CC	1947068929
SNP_P4_193695_5941	NW_004521721.1	Scaffold9411	5941	AA	TT	1947068930
SNP_P4_193696_5979	NW_004521721.1	Scaffold9411	5979	GG	AA	1947068932
SNP_P4_193697_6003	NW_004521721.1	Scaffold9411	6003	AA	GG	1947068934
SNP_P4_193698_380	NW_004521722.1	Scaffold9416	380	CC	TT	1947068936
SNP_P4_193699_405	NW_004521722.1	Scaffold9416	405	CC	TT	1947068938
SNP_P4_193700_548	NW_004521724.1	Scaffold9419	548	GG	CC	1947068940
SNP_P4_193701_554	NW_004521724.1	Scaffold9419	554	GG	CC	1947068942
SNP_P4_193702_1150	NW_004521731.1	Scaffold9433	1150	GG	TT	1947068944
SNP_P4_193703_1409	NW_004521731.1	Scaffold9433	1409	AA	TT	1947068946
SNP_P4_193704_1424	NW_004521731.1	Scaffold9433	1424	CC	TT	1947068948
SNP_P4_193705_967	NW_004521732.1	Scaffold9435	967	AA	GG	1947068950
SNP_P4_193706_64	NW_004521734.1	Scaffold9444	64	AA	GG	1947068952
SNP_P4_193707_177	NW_004521734.1	Scaffold9444	177	TT	AA	1947068954
SNP_P4_193708_345	NW_004521734.1	Scaffold9444	345	TT	CC	1947068956
SNP_P4_193709_396	NW_004521734.1	Scaffold9444	396	AA	CC	1947068958
SNP_P4_193710_670	NW_004521734.1	Scaffold9444	670	CC	TT	1947068959
SNP_P4_193711_686	NW_004521734.1	Scaffold9444	686	AA	CC	1947068961
SNP_P4_193712_694	NW_004521734.1	Scaffold9444	694	GG	AA	1947068963
SNP_P4_193713_2095	NW_004521734.1	Scaffold9444	2095	AA	CC	1947068965
SNP_P4_193714_2255	NW_004521734.1	Scaffold9444	2255	CC	TT	1947068967
SNP_P4_193715_2337	NW_004521734.1	Scaffold9444	2337	GG	TT	1947068969
SNP_P4_193716_2769	NW_004521734.1	Scaffold9444	2769	AA	TT	1947068971
SNP_P4_193717_3349	NW_004521734.1	Scaffold9444	3349	CC	TT	1947068973
SNP_P4_193719_3520	NW_004521734.1	Scaffold9444	3520	TT	CC	1947068975
SNP_P4_193720_3629	NW_004521734.1	Scaffold9444	3629	TT	AA	1947068977
SNP_P4_193721_3743	NW_004521734.1	Scaffold9444	3743	CC	GG	1947068979
SNP_P4_193722_3852	NW_004521734.1	Scaffold9444	3852	TT	AA	1947068981
SNP_P4_193723_3956	NW_004521734.1	Scaffold9444	3956	TT	AA	1947068983
SNP_P4_193724_3983	NW_004521734.1	Scaffold9444	3983	GG	TT	1947068985
SNP_P4_193725_4026	NW_004521734.1	Scaffold9444	4026	AA	GG	1947068987
SNP_P4_193726_4100	NW_004521734.1	Scaffold9444	4100	AA	CC	1947068989
SNP_P4_193727_4172	NW_004521734.1	Scaffold9444	4172	GG	AA	1947068991
SNP_P4_193728_4530	NW_004521734.1	Scaffold9444	4530	CC	TT	1947068993
SNP_P4_193729_472	NW_004521737.1	Scaffold9454	472	CC	TT	1947068995
SNP_P4_193730_476	NW_004521737.1	Scaffold9454	476	AA	GG	1947068997

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_193732_722	NW_004521737.1	Scaffold9454	722	AA	TT	1947069001
SNP_P4_193733_773	NW_004521737.1	Scaffold9454	773	GG	AA	1947069003
SNP_P4_193734_1138	NW_004521741.1	Scaffold9468	1138	CC	GG	1947069005
SNP_P4_193735_1141	NW_004521741.1	Scaffold9468	1141	TT	GG	1947069007
SNP_P4_193736_105	NW_004521745.1	Scaffold9478	105	TT	AA	1947069009
SNP_P4_193737_120	NW_004521745.1	Scaffold9478	120	AA	CC	1947069011
SNP_P4_193738_170	NW_004521745.1	Scaffold9478	170	AA	CC	1947069012
SNP_P4_193739_177	NW_004521745.1	Scaffold9478	177	GG	AA	1947069014
SNP_P4_193740_198	NW_004521745.1	Scaffold9478	198	AA	GG	1947069016
SNP_P4_193741_229	NW_004521745.1	Scaffold9478	229	GG	AA	1947069018
SNP_P4_193742_1149	NW_004521747.1	Scaffold9484	1149	GG	AA	1947069020
SNP_P4_193744_1323	NW_004521747.1	Scaffold9484	1323	TT	CC	1947069022
SNP_P4_193745_1347	NW_004521747.1	Scaffold9484	1347	TT	GG	1947069024
SNP_P4_193746_1403	NW_004521747.1	Scaffold9484	1403	AA	GG	1947069026
SNP_P4_193747_1414	NW_004521747.1	Scaffold9484	1414	GG	AA	1947069028
SNP_P4_193748_1583	NW_004521747.1	Scaffold9484	1583	AA	GG	1947069030
SNP_P4_193749_1668	NW_004521747.1	Scaffold9484	1668	TT	CC	1947069032
SNP_P4_193750_1713	NW_004521747.1	Scaffold9484	1713	AA	CC	1947069034
SNP_P4_193751_1879	NW_004521748.1	Scaffold9486	1879	AA	GG	1947069036
SNP_P4_193752_2058	NW_004521748.1	Scaffold9486	2058	TT	AA	1947069038
SNP_P4_193753_2120	NW_004521748.1	Scaffold9486	2120	AA	GG	1947069040
SNP_P4_193754_786	NW_004521750.1	Scaffold9492	786	AA	GG	1947069042
SNP_P4_193755_413	NW_004521751.1	Scaffold9493	413	AA	CC	1947069044
SNP_P4_193756_446	NW_004521751.1	Scaffold9493	446	GG	TT	1947069046
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SNP_P4_193758_2936	NW_004521754.1	Scaffold9506	2936	CC	TT	1947069050
SNP_P4_193759_382	NW_004521755.1	Scaffold9507	382	TT	AA	1947069052
SNP_P4_193760_838	NW_004521755.1	Scaffold9507	838	AA	TT	1947069054
SNP_P4_193761_173	NW_004521757.1	Scaffold9523	173	TT	GG	1947069056
SNP_P4_193762_512	NW_004521757.1	Scaffold9523	512	AA	TT	1947069058
SNP_P4_193763_516	NW_004521757.1	Scaffold9523	516	AA	TT	1947069060
SNP_P4_193764_494	NW_004521760.1	Scaffold9534	494	AA	GG	1947069062
SNP_P4_193765_1155	NW_004521761.1	Scaffold9535	1155	AA	GG	1947069064
SNP_P4_193766_154	NW_004521766.1	Scaffold9550	154	GG	AA	1947069066
SNP_P4_193767_170	NW_004521766.1	Scaffold9550	170	AA	TT	1947069068
SNP_P4_193768_181	NW_004521766.1	Scaffold9550	181	TT	GG	1947069070
SNP_P4_193769_4930	NW_004521766.1	Scaffold9550	4930	GG	AA	1947069072
SNP_P4_193770_5476	NW_004521766.1	Scaffold9550	5476	TT	CC	1947069074
SNP_P4_193771_53	NW_004521768.1	Scaffold9555	53	GG	TT	1947069076
SNP_P4_193772_64	NW_004521768.1	Scaffold9555	64	CC	GG	1947069078
SNP_P4_193773_127	NW_004521768.1	Scaffold9555	127	GG	TT	1947069080

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SNP_P4_193775_376	NW_004521768.1	Scaffold9555	376	AA	TT	1947069084
SNP_P4_193776_496	NW_004521768.1	Scaffold9555	496	AA	CC	1947069086
SNP_P4_193777_650	NW_004521768.1	Scaffold9555	650	TT	GG	1947069088
SNP_P4_193778_709	NW_004521768.1	Scaffold9555	709	GG	TT	1947069090
SNP_P4_193779_759	NW_004521768.1	Scaffold9555	759	TT	AA	1947069092
SNP_P4_193780_803	NW_004521768.1	Scaffold9555	803	CC	TT	1947069094
SNP_P4_193781_1852	NW_004521769.1	Scaffold9556	1852	AA	TT	1947069096
SNP_P4_193782_1914	NW_004521769.1	Scaffold9556	1914	CC	GG	1947069098
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SNP_P4_193784_2199	NW_004521769.1	Scaffold9556	2199	GG	AA	1947069102
SNP_P4_193785_977	NW_004521771.1	Scaffold9567	977	GG	TT	1947069104
SNP_P4_193786_409	NW_004521773.1	Scaffold9576	409	AA	TT	1947069105
SNP_P4_193787_231	NW_004521777.1	Scaffold9587	231	CC	AA	1947069107
SNP_P4_193788_242	NW_004521777.1	Scaffold9587	242	AA	GG	1947069109
SNP_P4_193789_338	NW_004521777.1	Scaffold9587	338	CC	TT	1947069111
SNP_P4_193790_913	NW_004521777.1	Scaffold9587	913	AA	GG	1947069113
SNP_P4_193791_922	NW_004521777.1	Scaffold9587	922	GG	AA	1947069115
SNP_P4_193792_965	NW_004521777.1	Scaffold9587	965	TT	GG	1947069117
SNP_P4_193793_1007	NW_004521777.1	Scaffold9587	1007	AA	GG	1947069119
SNP_P4_193794_1018	NW_004521777.1	Scaffold9587	1018	TT	CC	1947069121
SNP_P4_193795_1075	NW_004521777.1	Scaffold9587	1075	CC	TT	1947069123
SNP_P4_193796_1156	NW_004521777.1	Scaffold9587	1156	TT	GG	1947069125
SNP_P4_193797_1186	NW_004521777.1	Scaffold9587	1186	TT	AA	1947069127
SNP_P4_193798_1540	NW_004521777.1	Scaffold9587	1540	GG	TT	1947069129
SNP_P4_193799_1547	NW_004521777.1	Scaffold9587	1547	AA	GG	1947069131
SNP_P4_193800_320	NW_004521778.1	Scaffold9588	320	TT	CC	1947069133
SNP_P4_193801_337	NW_004521778.1	Scaffold9588	337	AA	GG	1947069135
SNP_P4_193802_342	NW_004521778.1	Scaffold9588	342	AA	GG	1947069137
SNP_P4_193803_441	NW_004521778.1	Scaffold9588	441	AA	CC	1947069139
SNP_P4_193804_744	NW_004521778.1	Scaffold9588	744	AA	GG	1947069140
SNP_P4_193805_760	NW_004521778.1	Scaffold9588	760	AA	GG	1947069142
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SNP_P4_193807_957	NW_004521778.1	Scaffold9588	957	CC	TT	1947069146
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SNP_P4_193809_19667	NW_004521779.1	Scaffold9590	19667	TT	CC	1947069150
SNP_P4_193810_20290	NW_004521779.1	Scaffold9590	20290	TT	GG	1947069152
SNP_P4_193811_5095	NW_004521784.1	Scaffold9609	5095	GG	AA	1947069154
SNP_P4_193812_613	NW_004521786.1	Scaffold9612	613	TT	CC	1947069156
SNP_P4_193813_691	NW_004521786.1	Scaffold9612	691	TT	CC	1947069158
SNP_P4_193814_1182	NW_004521786.1	Scaffold9612	1182	CC	AA	1947069160
SNP_P4_193815_1235	NW_004521786.1	Scaffold9612	1235	GG	AA	1947069162

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_193817_1480	NW_004521786.1	Scaffold9612	1480	AA	CC	1947069166
SNP_P4_193818_1577	NW_004521786.1	Scaffold9612	1577	AA	GG	1947069168
SNP_P4_193819_2035	NW_004521786.1	Scaffold9612	2035	TT	CC	1947069170
SNP_P4_193820_2039	NW_004521786.1	Scaffold9612	2039	CC	GG	1947069172
SNP_P4_193821_2084	NW_004521786.1	Scaffold9612	2084	TT	AA	1947069174
SNP_P4_193823_231	NW_004521787.1	Scaffold9613	231	GG	AA	1947069177
SNP_P4_193824_324	NW_004521787.1	Scaffold9613	324	AA	GG	1947069179
SNP_P4_193825_630	NW_004521787.1	Scaffold9613	630	GG	AA	1947069181
SNP_P4_193826_1034	NW_004521787.1	Scaffold9613	1034	AA	CC	1947069183
SNP_P4_193827_1049	NW_004521790.1	Scaffold9619	1049	AA	GG	1947069185
SNP_P4_193828_5333	NW_004521793.1	Scaffold9629	5333	CC	AA	1947069187
SNP_P4_193829_5411	NW_004521793.1	Scaffold9629	5411	CC	GG	1947069189
SNP_P4_193830_5622	NW_004521793.1	Scaffold9629	5622	CC	TT	1947069191
SNP_P4_193831_5814	NW_004521793.1	Scaffold9629	5814	GG	TT	1947069193
SNP_P4_193832_5872	NW_004521793.1	Scaffold9629	5872	TT	CC	1947069195
SNP_P4_193833_5992	NW_004521793.1	Scaffold9629	5992	AA	GG	1947069197
SNP_P4_193834_6037	NW_004521793.1	Scaffold9629	6037	GG	AA	1947069199
SNP_P4_193835_6309	NW_004521793.1	Scaffold9629	6309	GG	AA	1947069201
SNP_P4_193836_6347	NW_004521793.1	Scaffold9629	6347	GG	TT	1947069203
SNP_P4_193838_6394	NW_004521793.1	Scaffold9629	6394	AA	GG	1947069205
SNP_P4_193839_502	NW_004521794.1	Scaffold9632	502	TT	GG	1947069207
SNP_P4_193840_1028	NW_004521794.1	Scaffold9632	1028	AA	GG	1947069209
SNP_P4_193841_1235	NW_004521794.1	Scaffold9632	1235	CC	TT	1947069212
SNP_P4_193842_1278	NW_004521794.1	Scaffold9632	1278	GG	TT	1947069214
SNP_P4_193843_769	NW_004521795.1	Scaffold9635	769	GG	AA	1947069216
SNP_P4_193844_307	NW_004521796.1	Scaffold9636	307	AA	GG	1947069218
SNP_P4_193845_694	NW_004521796.1	Scaffold9636	694	CC	AA	1947069220
SNP_P4_193846_833	NW_004521796.1	Scaffold9636	833	TT	AA	1947069222
SNP_P4_193847_123	NW_004521800.1	Scaffold9644	123	GG	AA	1947069224
SNP_P4_193848_178	NW_004521800.1	Scaffold9644	178	TT	CC	1947069226
SNP_P4_193849_228	NW_004521800.1	Scaffold9644	228	TT	CC	1947069228
SNP_P4_193850_280	NW_004521800.1	Scaffold9644	280	GG	TT	1947069230
SNP_P4_193851_438	NW_004521800.1	Scaffold9644	438	AA	CC	1947069232
SNP_P4_193852_565	NW_004521800.1	Scaffold9644	565	CC	TT	1947069234
SNP_P4_193853_664	NW_004521800.1	Scaffold9644	664	CC	GG	1947069236
SNP_P4_193854_734	NW_004521800.1	Scaffold9644	734	AA	CC	1947069238
SNP_P4_193855_782	NW_004521800.1	Scaffold9644	782	CC	TT	1947069240
SNP_P4_193856_843	NW_004521800.1	Scaffold9644	843	AA	GG	1947069242
SNP_P4_193857_4314	NW_004521800.1	Scaffold9644	4314	GG	AA	1947069244
SNP_P4_193858_4317	NW_004521800.1	Scaffold9644	4317	CC	TT	1947069246
SNP_P4_193859_4331	NW_004521800.1	Scaffold9644	4331	AA	GG	1947069248

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_193862_4525	NW_004521800.1	Scaffold9644	4525	GG	TT	1947069254
SNP_P4_193863_4530	NW_004521800.1	Scaffold9644	4530	AA	CC	1947069256
SNP_P4_193864_4540	NW_004521800.1	Scaffold9644	4540	GG	AA	1947069258
SNP_P4_193865_4563	NW_004521800.1	Scaffold9644	4563	GG	AA	1947069260
SNP_P4_193866_4608	NW_004521800.1	Scaffold9644	4608	CC	TT	1947069262
SNP_P4_193867_4682	NW_004521800.1	Scaffold9644	4682	AA	GG	1947069264
SNP_P4_193868_4687	NW_004521800.1	Scaffold9644	4687	CC	TT	1947069266
SNP_P4_193869_4710	NW_004521800.1	Scaffold9644	4710	GG	TT	1947069268
SNP_P4_193870_4750	NW_004521800.1	Scaffold9644	4750	AA	CC	1947069270
SNP_P4_193871_4780	NW_004521800.1	Scaffold9644	4780	GG	TT	1947069272
SNP_P4_193872_4839	NW_004521800.1	Scaffold9644	4839	CC	AA	1947069274
SNP_P4_193873_4852	NW_004521800.1	Scaffold9644	4852	AA	GG	1947069276
SNP_P4_193874_4915	NW_004521800.1	Scaffold9644	4915	GG	TT	1947069278
SNP_P4_193875_4938	NW_004521800.1	Scaffold9644	4938	CC	TT	1947069280
SNP_P4_193876_5009	NW_004521800.1	Scaffold9644	5009	GG	TT	1947069282
SNP_P4_193877_5023	NW_004521800.1	Scaffold9644	5023	AA	GG	1947069284
SNP_P4_193878_363	NW_004521801.1	Scaffold9646	363	TT	CC	1947069286
SNP_P4_193879_172	NW_004521802.1	Scaffold9647	172	TT	GG	1947069287
SNP_P4_193880_4962	NW_004521802.1	Scaffold9647	4962	AA	GG	1947069288
SNP_P4_193881_5947	NW_004521802.1	Scaffold9647	5947	CC	GG	1947069289
SNP_P4_193882_690	NW_004521803.1	Scaffold9648	690	AA	GG	1947069291
SNP_P4_193883_940	NW_004521805.1	Scaffold9655	940	CC	GG	1947069293
SNP_P4_193884_1402	NW_004521805.1	Scaffold9655	1402	GG	AA	1947069295
SNP_P4_193885_1421	NW_004521805.1	Scaffold9655	1421	TT	CC	1947069297
SNP_P4_193886_150	NW_004521808.1	Scaffold9660	150	AA	TT	1947069299
SNP_P4_193887_506	NW_004521808.1	Scaffold9660	506	CC	TT	1947069301
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SNP_P4_193889_19461	NW_004521808.1	Scaffold9660	19461	CC	TT	1947069305
SNP_P4_193890_19471	NW_004521808.1	Scaffold9660	19471	GG	AA	1947069307
SNP_P4_193891_19472	NW_004521808.1	Scaffold9660	19472	CC	TT	1947069309
SNP_P4_193892_19497	NW_004521808.1	Scaffold9660	19497	GG	AA	1947069311
SNP_P4_193893_859	NW_004521809.1	Scaffold9663	859	TT	CC	1947069313
SNP_P4_193894_1006	NW_004521809.1	Scaffold9663	1006	AA	TT	1947069315
SNP_P4_193895_561	NW_004521811.1	Scaffold9667	561	GG	AA	1947069317
SNP_P4_193896_562	NW_004521811.1	Scaffold9667	562	GG	AA	1947069319
SNP_P4_193897_20200	NW_004521815.1	Scaffold9673	20200	GG	AA	1947069321
SNP_P4_193898_20334	NW_004521815.1	Scaffold9673	20334	AA	TT	1947069323
SNP_P4_193899_20411	NW_004521815.1	Scaffold9673	20411	GG	AA	1947069325
SNP_P4_193900_20523	NW_004521815.1	Scaffold9673	20523	TT	AA	1947069328
SNP_P4_193901_20524	NW_004521815.1	Scaffold9673	20524	GG	TT	1947069330

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_193903_20630	NW_004521815.1	Scaffold9673	20630	TT	CC	1947069334
SNP_P4_193904_20668	NW_004521815.1	Scaffold9673	20668	TT	CC	1947069336
SNP_P4_193905_20751	NW_004521815.1	Scaffold9673	20751	CC	AA	1947069338
SNP_P4_193906_20789	NW_004521815.1	Scaffold9673	20789	GG	AA	1947069340
SNP_P4_193907_20852	NW_004521815.1	Scaffold9673	20852	TT	CC	1947069342
SNP_P4_193908_20934	NW_004521815.1	Scaffold9673	20934	TT	AA	1947069344
SNP_P4_193909_20954	NW_004521815.1	Scaffold9673	20954	GG	AA	1947069346
SNP_P4_193910_20969	NW_004521815.1	Scaffold9673	20969	AA	CC	1947069348
SNP_P4_193911_20972	NW_004521815.1	Scaffold9673	20972	AA	GG	1947069350
SNP_P4_193912_20978	NW_004521815.1	Scaffold9673	20978	GG	CC	1947069352
SNP_P4_193913_1029	NW_004521816.1	Scaffold9675	1029	GG	TT	1947069354
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SNP_P4_193915_242	NW_004521819.1	Scaffold9683	242	TT	CC	1947069358
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SNP_P4_193921_539	NW_004521820.1	Scaffold9686	539	TT	CC	1947069370
SNP_P4_193922_588	NW_004521820.1	Scaffold9686	588	TT	CC	1947069372
SNP_P4_193923_601	NW_004521820.1	Scaffold9686	601	CC	GG	1947069374
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SNP_P4_193926_898	NW_004521820.1	Scaffold9686	898	GG	AA	1947069380
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SNP_P4_193928_1456	NW_004521820.1	Scaffold9686	1456	TT	CC	1947069384
SNP_P4_193929_111	NW_004521821.1	Scaffold9693	111	TT	GG	1947069386
SNP_P4_193930_546	NW_004521823.1	Scaffold9699	546	GG	CC	1947069388
SNP_P4_193931_630	NW_004521823.1	Scaffold9699	630	GG	AA	1947069390
SNP_P4_193932_864	NW_004521823.1	Scaffold9699	864	AA	CC	1947069392
SNP_P4_193933_924	NW_004521825.1	Scaffold9702	924	GG	CC	1947069394
SNP_P4_193934_936	NW_004521825.1	Scaffold9702	936	TT	GG	1947069396
SNP_P4_193935_64	NW_004521826.1	Scaffold9704	64	CC	GG	1947069398
SNP_P4_193936_19351	NW_004521826.1	Scaffold9704	19351	TT	CC	1947069400
SNP_P4_193937_19567	NW_004521826.1	Scaffold9704	19567	CC	TT	1947069402
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SNP_P4_193939_578	NW_004521834.1	Scaffold9727	578	GG	AA	1947069406
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SNP_P4_193941_504	NW_004521835.1	Scaffold9728	504	CC	AA	1947069410
SNP_P4_193942_506	NW_004521835.1	Scaffold9728	506	GG	AA	1947069412
SNP_P4_193943_697	NW_004521835.1	Scaffold9728	697	GG	AA	1947069414

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_193946_981	NW_004521835.1	Scaffold9728	981	TT	CC	1947069420
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SNP_P4_193948_1066	NW_004521835.1	Scaffold9728	1066	AA	GG	1947069424
SNP_P4_193949_1145	NW_004521835.1	Scaffold9728	1145	GG	AA	1947069426
SNP_P4_193950_1277	NW_004521835.1	Scaffold9728	1277	CC	AA	1947069428
SNP_P4_193951_512	NW_004521840.1	Scaffold9740	512	GG	AA	1947069430
SNP_P4_193952_548	NW_004521840.1	Scaffold9740	548	TT	GG	1947069435
SNP_P4_193953_568	NW_004521840.1	Scaffold9740	568	CC	TT	1947069436
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SNP_P4_193956_20603	NW_004521840.1	Scaffold9740	20603	AA	CC	1947069438
SNP_P4_193957_20734	NW_004521840.1	Scaffold9740	20734	CC	TT	1947069439
SNP_P4_193958_1183	NW_004521841.1	Scaffold9742	1183	CC	TT	1947069440
SNP_P4_193959_1251	NW_004521841.1	Scaffold9742	1251	AA	GG	1947069441
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SNP_P4_193964_118	NW_004521847.1	Scaffold9757	118	GG	CC	1947069446
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SNP_P4_193967_606	NW_004521847.1	Scaffold9757	606	GG	AA	1947069449
SNP_P4_193969_891	NW_004521847.1	Scaffold9757	891	AA	GG	1947069450
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SNP_P4_193973_1512	NW_004521847.1	Scaffold9757	1512	TT	CC	1947069454
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SNP_P4_193977_230	NW_004521856.1	Scaffold9779	230	AA	GG	1947069458
SNP_P4_193979_357	NW_004521856.1	Scaffold9779	357	TT	AA	1947069459
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SNP_P4_193981_490	NW_004521856.1	Scaffold9779	490	GG	AA	1947069461
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SNP_P4_193983_498	NW_004521857.1	Scaffold9781	498	AA	TT	1947069463
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SNP_P4_193987_735	NW_004521857.1	Scaffold9781	735	GG	AA	1947069467
SNP_P4_193988_739	NW_004521857.1	Scaffold9781	739	GG	AA	1947069468

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SNP_P4_193992_794	NW_004521858.1	Scaffold9784	794	CC	TT	1947069471
SNP_P4_193993_641	NW_004521863.1	Scaffold9797	641	CC	AA	1947069472
SNP_P4_193994_680	NW_004521863.1	Scaffold9797	680	CC	TT	1947069473
SNP_P4_193995_939	NW_004521863.1	Scaffold9797	939	CC	TT	1947069474
SNP_P4_193996_966	NW_004521863.1	Scaffold9797	966	TT	AA	1947069475
SNP_P4_193997_997	NW_004521863.1	Scaffold9797	997	CC	GG	1947069476
SNP_P4_193998_1238	NW_004521863.1	Scaffold9797	1238	CC	GG	1947069477
SNP_P4_193999_1289	NW_004521863.1	Scaffold9797	1289	GG	TT	1947069478
SNP_P4_194000_1325	NW_004521863.1	Scaffold9797	1325	AA	TT	1947069479
SNP_P4_194001_1439	NW_004521863.1	Scaffold9797	1439	GG	AA	1947069481
SNP_P4_194002_1461	NW_004521863.1	Scaffold9797	1461	CC	TT	1947069483
SNP_P4_194003_1468	NW_004521863.1	Scaffold9797	1468	TT	AA	1947069485
SNP_P4_194004_1525	NW_004521863.1	Scaffold9797	1525	AA	CC	1947069487
SNP_P4_194005_1526	NW_004521863.1	Scaffold9797	1526	TT	GG	1947069489
SNP_P4_194006_1543	NW_004521863.1	Scaffold9797	1543	AA	GG	1947069491
SNP_P4_194007_20352	NW_004521864.1	Scaffold9798	20352	TT	AA	1947069492
SNP_P4_194008_435	NW_004521865.1	Scaffold9801	435	AA	TT	1947069494
SNP_P4_194009_458	NW_004521865.1	Scaffold9801	458	TT	CC	1947069496
SNP_P4_194010_784	NW_004521865.1	Scaffold9801	784	CC	GG	1947069498
SNP_P4_194011_114	NW_004521869.1	Scaffold9809	114	TT	CC	1947069500
SNP_P4_194012_233	NW_004521869.1	Scaffold9809	233	CC	TT	1947069502
SNP_P4_194013_391	NW_004521869.1	Scaffold9809	391	GG	AA	1947069504
SNP_P4_194014_427	NW_004521869.1	Scaffold9809	427	CC	TT	1947069506
SNP_P4_194015_485	NW_004521869.1	Scaffold9809	485	AA	CC	1947069508
SNP_P4_194017_1007	NW_004521869.1	Scaffold9809	1007	AA	GG	1947069510
SNP_P4_194018_64	NW_004521870.1	Scaffold9813	64	AA	GG	1947069512
SNP_P4_194019_78	NW_004521870.1	Scaffold9813	78	GG	AA	1947069514
SNP_P4_194020_114	NW_004521870.1	Scaffold9813	114	GG	TT	1947069516
SNP_P4_194021_327	NW_004521870.1	Scaffold9813	327	CC	GG	1947069518
SNP_P4_194022_363	NW_004521870.1	Scaffold9813	363	CC	GG	1947069519
SNP_P4_194023_421	NW_004521870.1	Scaffold9813	421	GG	TT	1947069521
SNP_P4_194024_549	NW_004521870.1	Scaffold9813	549	CC	TT	1947069523
SNP_P4_194025_553	NW_004521870.1	Scaffold9813	553	TT	AA	1947069525
SNP_P4_194026_678	NW_004521870.1	Scaffold9813	678	CC	AA	1947069527
SNP_P4_194027_739	NW_004521870.1	Scaffold9813	739	CC	AA	1947069529
SNP_P4_194029_1281	NW_004521870.1	Scaffold9813	1281	GG	CC	1947069531
SNP_P4_194030_1541	NW_004521870.1	Scaffold9813	1541	CC	TT	1947069533
SNP_P4_194031_1616	NW_004521870.1	Scaffold9813	1616	CC	AA	1947069535
SNP_P4_194032_1641	NW_004521870.1	Scaffold9813	1641	GG	TT	1947069537
SNP_P4_194033_5188	NW_004521870.1	Scaffold9813	5188	CC	AA	1947069539

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_194035_5417	NW_004521870.1	Scaffold9813	5417	CC	TT	1947069543
SNP_P4_194036_5420	NW_004521870.1	Scaffold9813	5420	AA	GG	1947069545
SNP_P4_194037_5432	NW_004521870.1	Scaffold9813	5432	TT	GG	1947069547
SNP_P4_194038_5483	NW_004521870.1	Scaffold9813	5483	AA	GG	1947069549
SNP_P4_194039_461	NW_004521872.1	Scaffold9818	461	TT	CC	1947069551
SNP_P4_194040_918	NW_004521872.1	Scaffold9818	918	CC	GG	1947069553
SNP_P4_194041_937	NW_004521872.1	Scaffold9818	937	TT	AA	1947069555
SNP_P4_194042_1289	NW_004521872.1	Scaffold9818	1289	CC	GG	1947069557
SNP_P4_194043_1308	NW_004521872.1	Scaffold9818	1308	AA	TT	1947069559
SNP_P4_194044_1499	NW_004521872.1	Scaffold9818	1499	TT	AA	1947069561
SNP_P4_194045_1606	NW_004521872.1	Scaffold9818	1606	AA	GG	1947069563
SNP_P4_194046_64	NW_004521873.1	Scaffold9819	64	AA	GG	1947069565
SNP_P4_194047_320	NW_004521873.1	Scaffold9819	320	AA	GG	1947069567
SNP_P4_194048_324	NW_004521873.1	Scaffold9819	324	AA	TT	1947069569
SNP_P4_194049_552	NW_004521873.1	Scaffold9819	552	AA	CC	1947069570
SNP_P4_194050_209	NW_004521875.1	Scaffold9821	209	TT	GG	1947069572
SNP_P4_194051_210	NW_004521875.1	Scaffold9821	210	CC	TT	1947069574
SNP_P4_194052_307	NW_004521875.1	Scaffold9821	307	TT	CC	1947069576
SNP_P4_194053_342	NW_004521875.1	Scaffold9821	342	TT	AA	1947069578
SNP_P4_194054_347	NW_004521875.1	Scaffold9821	347	AA	TT	1947069580
SNP_P4_194055_360	NW_004521875.1	Scaffold9821	360	CC	TT	1947069582
SNP_P4_194056_399	NW_004521875.1	Scaffold9821	399	AA	TT	1947069584
SNP_P4_194058_738	NW_004521875.1	Scaffold9821	738	CC	GG	1947069586
SNP_P4_194059_491	NW_004521878.1	Scaffold9827	491	TT	GG	1947069588
SNP_P4_194060_623	NW_004521878.1	Scaffold9827	623	AA	TT	1947069590
SNP_P4_194061_796	NW_004521878.1	Scaffold9827	796	CC	TT	1947069592
SNP_P4_194062_967	NW_004521878.1	Scaffold9827	967	TT	CC	1947069594
SNP_P4_194063_969	NW_004521878.1	Scaffold9827	969	AA	GG	1947069596
SNP_P4_194064_973	NW_004521878.1	Scaffold9827	973	CC	TT	1947069598
SNP_P4_194065_1767	NW_004521883.1	Scaffold9836	1767	AA	TT	1947069600
SNP_P4_194066_2417	NW_004521883.1	Scaffold9836	2417	TT	AA	1947069602
SNP_P4_194067_2543	NW_004521883.1	Scaffold9836	2543	GG	CC	1947069604
SNP_P4_194068_561	NW_004521885.1	Scaffold9844	561	TT	GG	1947069606
SNP_P4_194069_782	NW_004521885.1	Scaffold9844	782	GG	AA	1947069608
SNP_P4_194070_277	NW_004521886.1	Scaffold9847	277	GG	AA	1947069610
SNP_P4_194071_116	NW_004521887.1	Scaffold9849	116	AA	GG	1947069612
SNP_P4_194072_214	NW_004521887.1	Scaffold9849	214	TT	CC	1947069614
SNP_P4_194073_521	NW_004521887.1	Scaffold9849	521	AA	GG	1947069616
SNP_P4_194074_1034	NW_004521887.1	Scaffold9849	1034	AA	CC	1947069618
SNP_P4_194075_1036	NW_004521887.1	Scaffold9849	1036	TT	CC	1947069620
SNP_P4_194076_196	NW_004521889.1	Scaffold9851	196	TT	CC	1947069622

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_194078_733	NW_004521889.1	Scaffold9851	733	AA	CC	1947069626
SNP_P4_194080_966	NW_004521889.1	Scaffold9851	966	GG	AA	1947069628
SNP_P4_194081_1001	NW_004521889.1	Scaffold9851	1001	TT	AA	1947069630
SNP_P4_194082_979	NW_004521892.1	Scaffold9859	979	AA	TT	1947069632
SNP_P4_194083_552	NW_004521893.1	Scaffold9860	552	TT	CC	1947069634
SNP_P4_194084_610	NW_004521893.1	Scaffold9860	610	CC	AA	1947069636
SNP_P4_194085_628	NW_004521893.1	Scaffold9860	628	CC	TT	1947069638
SNP_P4_194086_719	NW_004521893.1	Scaffold9860	719	CC	TT	1947069640
SNP_P4_194087_738	NW_004521893.1	Scaffold9860	738	CC	TT	1947069642
SNP_P4_194088_783	NW_004521893.1	Scaffold9860	783	CC	TT	1947069644
SNP_P4_194089_877	NW_004521893.1	Scaffold9860	877	GG	AA	1947069646
SNP_P4_194091_929	NW_004521893.1	Scaffold9860	929	AA	CC	1947069648
SNP_P4_194092_72	NW_004521898.1	Scaffold9880	72	AA	GG	1947069650
SNP_P4_194093_76	NW_004521898.1	Scaffold9880	76	TT	GG	1947069652
SNP_P4_194094_82	NW_004521898.1	Scaffold9880	82	AA	GG	1947069654
SNP_P4_194095_94	NW_004521898.1	Scaffold9880	94	CC	TT	1947069656
SNP_P4_194096_105	NW_004521898.1	Scaffold9880	105	TT	CC	1947069658
SNP_P4_194097_106	NW_004521898.1	Scaffold9880	106	GG	AA	1947069660
SNP_P4_194098_361	NW_004521901.1	Scaffold9887	361	AA	GG	1947069662
SNP_P4_194099_453	NW_004521901.1	Scaffold9887	453	CC	AA	1947069664
SNP_P4_194100_1359	NW_004521901.1	Scaffold9887	1359	CC	TT	1947069666
SNP_P4_194101_1415	NW_004521901.1	Scaffold9887	1415	CC	TT	1947069668
SNP_P4_194102_1745	NW_004521901.1	Scaffold9887	1745	CC	TT	1947069670
SNP_P4_194103_1872	NW_004521901.1	Scaffold9887	1872	CC	TT	1947069672
SNP_P4_194104_76	NW_004521902.1	Scaffold9888	76	GG	AA	1947069674
SNP_P4_194105_115	NW_004521902.1	Scaffold9888	115	GG	AA	1947069676
SNP_P4_194106_279	NW_004521902.1	Scaffold9888	279	GG	TT	1947069678
SNP_P4_194107_393	NW_004521903.1	Scaffold9892	393	CC	TT	1947069680
SNP_P4_194108_395	NW_004521903.1	Scaffold9892	395	AA	TT	1947069682
SNP_P4_194109_426	NW_004521903.1	Scaffold9892	426	TT	GG	1947069684
SNP_P4_194111_596	NW_004521903.1	Scaffold9892	596	CC	TT	1947069686
SNP_P4_194112_647	NW_004521903.1	Scaffold9892	647	TT	AA	1947069688
SNP_P4_194113_770	NW_004521903.1	Scaffold9892	770	GG	AA	1947069690
SNP_P4_194114_778	NW_004521903.1	Scaffold9892	778	AA	GG	1947069692
SNP_P4_194115_796	NW_004521903.1	Scaffold9892	796	TT	CC	1947069694
SNP_P4_194116_903	NW_004521903.1	Scaffold9892	903	CC	GG	1947069696
SNP_P4_194117_912	NW_004521903.1	Scaffold9892	912	CC	AA	1947069698
SNP_P4_194118_933	NW_004521903.1	Scaffold9892	933	CC	TT	1947069700
SNP_P4_194119_950	NW_004521903.1	Scaffold9892	950	AA	TT	1947069702
SNP_P4_194121_582	NW_004521904.1	Scaffold9893	582	TT	CC	1947069704
SNP_P4_194123_1047	NW_004521906.1	Scaffold9898	1047	AA	GG	1947069706

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_194125_863	NW_004521907.1	Scaffold9900	863	AA	TT	1947069710
SNP_P4_194126_883	NW_004521907.1	Scaffold9900	883	GG	AA	1947069712
SNP_P4_194127_890	NW_004521907.1	Scaffold9900	890	TT	CC	1947069714
SNP_P4_194128_921	NW_004521907.1	Scaffold9900	921	CC	AA	1947069716
SNP_P4_194129_932	NW_004521907.1	Scaffold9900	932	AA	GG	1947069718
SNP_P4_194130_975	NW_004521907.1	Scaffold9900	975	GG	AA	1947069720
SNP_P4_194131_980	NW_004521907.1	Scaffold9900	980	AA	GG	1947069722
SNP_P4_194132_985	NW_004521907.1	Scaffold9900	985	TT	CC	1947069724
SNP_P4_194133_993	NW_004521907.1	Scaffold9900	993	GG	TT	1947069726
SNP_P4_194134_994	NW_004521907.1	Scaffold9900	994	CC	AA	1947069728
SNP_P4_194135_1014	NW_004521907.1	Scaffold9900	1014	TT	CC	1947069730
SNP_P4_194136_2187	NW_004521907.1	Scaffold9900	2187	TT	AA	1947069732
SNP_P4_194137_2453	NW_004521907.1	Scaffold9900	2453	TT	CC	1947069734
SNP_P4_194138_4764	NW_004521908.1	Scaffold9901	4764	AA	GG	1947069736
SNP_P4_194139_1357	NW_004521909.1	Scaffold9902	1357	TT	CC	1947069739
SNP_P4_194140_868	NW_004521910.1	Scaffold9903	868	TT	AA	1947069741
SNP_P4_194141_106	NW_004521911.1	Scaffold9909	106	AA	GG	1947069743
SNP_P4_194142_117	NW_004521911.1	Scaffold9909	117	CC	AA	1947069745
SNP_P4_194143_118	NW_004521911.1	Scaffold9909	118	AA	GG	1947069747
SNP_P4_194144_407	NW_004521911.1	Scaffold9909	407	AA	TT	1947069749
SNP_P4_194145_609	NW_004521911.1	Scaffold9909	609	GG	CC	1947069751
SNP_P4_194146_804	NW_004521911.1	Scaffold9909	804	AA	GG	1947069753
SNP_P4_194147_880	NW_004521911.1	Scaffold9909	880	AA	GG	1947069755
SNP_P4_194148_95	NW_004521912.1	Scaffold9917	95	AA	GG	1947069757
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SNP_P4_194153_1270	NW_004521912.1	Scaffold9917	1270	GG	AA	1947069765
SNP_P4_194154_1301	NW_004521912.1	Scaffold9917	1301	AA	TT	1947069767
SNP_P4_194155_2332	NW_004521912.1	Scaffold9917	2332	GG	TT	1947069769
SNP_P4_194156_640	NW_004521914.1	Scaffold9921	640	TT	AA	1947069771
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SNP_P4_194158_884	NW_004521914.1	Scaffold9921	884	CC	TT	1947069775
SNP_P4_194159_921	NW_004521914.1	Scaffold9921	921	AA	CC	1947069777
SNP_P4_194160_240	NW_004521915.1	Scaffold9925	240	AA	TT	1947069779
SNP_P4_194161_556	NW_004521915.1	Scaffold9925	556	TT	AA	1947069781
SNP_P4_194162_564	NW_004521915.1	Scaffold9925	564	AA	GG	1947069783
SNP_P4_194163_589	NW_004521915.1	Scaffold9925	589	CC	AA	1947069785
SNP_P4_194164_597	NW_004521915.1	Scaffold9925	597	GG	CC	1947069787
SNP_P4_194165_1750	NW_004521917.1	Scaffold9934	1750	CC	AA	1947069789
SNP_P4_194166_493	NW_004521919.1	Scaffold9936	493	TT	CC	1947069791

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_194168_625	NW_004521919.1	Scaffold9936	625	CC	TT	1947069795
SNP_P4_194169_1017	NW_004521919.1	Scaffold9936	1017	CC	AA	1947069797
SNP_P4_194170_1227	NW_004521919.1	Scaffold9936	1227	AA	GG	1947069799
SNP_P4_194171_1641	NW_004521921.1	Scaffold9943	1641	AA	TT	1947069801
SNP_P4_194172_1675	NW_004521921.1	Scaffold9943	1675	GG	AA	1947069803
SNP_P4_194173_1711	NW_004521921.1	Scaffold9943	1711	AA	TT	1947069805
SNP_P4_194174_1792	NW_004521921.1	Scaffold9943	1792	CC	TT	1947069807
SNP_P4_194175_2051	NW_004521921.1	Scaffold9943	2051	TT	AA	1947069809
SNP_P4_194177_432	NW_004521929.1	Scaffold9958	432	AA	TT	1947069811
SNP_P4_194178_513	NW_004521929.1	Scaffold9958	513	AA	TT	1947069813
SNP_P4_194179_813	NW_004521929.1	Scaffold9958	813	AA	GG	1947069815
SNP_P4_194180_855	NW_004521929.1	Scaffold9958	855	GG	TT	1947069817
SNP_P4_194181_858	NW_004521929.1	Scaffold9958	858	TT	AA	1947069819
SNP_P4_194182_932	NW_004521929.1	Scaffold9958	932	CC	GG	1947069821
SNP_P4_194183_4356	NW_004521938.1	Scaffold9982	4356	CC	TT	1947069823
SNP_P4_194184_567	NW_004521940.1	Scaffold9992	567	GG	AA	1947069825
SNP_P4_194185_716	NW_004521940.1	Scaffold9992	716	AA	CC	1947069827
SNP_P4_194186_20316	NW_004521940.1	Scaffold9992	20316	GG	TT	1947069829
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SNP_P4_194188_20657	NW_004521940.1	Scaffold9992	20657	TT	AA	1947069833
SNP_P4_194189_653	NW_004521942.1	Scaffold9997	653	CC	TT	1947069835
SNP_P4_194190_339	NW_004521944.1	Scaffold10003	339	CC	GG	1947069837
SNP_P4_194191_865	NW_004521944.1	Scaffold10003	865	AA	CC	1947069839
SNP_P4_194192_96	NW_004521951.1	Scaffold10028	96	GG	TT	1947069841
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SNP_P4_194195_428	NW_004521951.1	Scaffold10028	428	TT	AA	1947069845
SNP_P4_194196_18928	NW_004521952.1	Scaffold10029	18928	GG	CC	1947069847
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SNP_P4_194200_511	NW_004521965.1	Scaffold10069	511	TT	AA	1947069855
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SNP_P4_194202_537	NW_004521966.1	Scaffold10071	537	TT	GG	1947069859
SNP_P4_194203_269	NW_004521968.1	Scaffold10073	269	CC	AA	1947069861
SNP_P4_194205_4412	NW_004521974.1	Scaffold10103	4412	AA	GG	1947069863
SNP_P4_194207_4595	NW_004521974.1	Scaffold10103	4595	CC	GG	1947069865
SNP_P4_194208_130	NW_004521980.1	Scaffold10121	130	TT	CC	1947069867
SNP_P4_194209_576	NW_004521980.1	Scaffold10121	576	AA	GG	1947069869
SNP_P4_194210_594	NW_004521980.1	Scaffold10121	594	AA	TT	1947069871
SNP_P4_194211_608	NW_004521980.1	Scaffold10121	608	TT	AA	1947069873
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SNP_P4_194214_646	NW_004521980.1	Scaffold10121	646	CC	TT	1947069879
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SNP_P4_194216_709	NW_004521980.1	Scaffold10121	709	GG	CC	1947069883
SNP_P4_194217_719	NW_004521980.1	Scaffold10121	719	CC	GG	1947069885
SNP_P4_194218_728	NW_004521980.1	Scaffold10121	728	GG	AA	1947069887
SNP_P4_194219_735	NW_004521980.1	Scaffold10121	735	TT	CC	1947069889
SNP_P4_194220_5123	NW_004521980.1	Scaffold10121	5123	CC	TT	1947069891
SNP_P4_194221_64	NW_004521981.1	Scaffold10124	64	TT	AA	1947069893
SNP_P4_194222_65	NW_004521981.1	Scaffold10124	65	TT	CC	1947069895
SNP_P4_194224_92	NW_004521981.1	Scaffold10124	92	GG	TT	1947069897
SNP_P4_194225_130	NW_004521981.1	Scaffold10124	130	GG	TT	1947069899
SNP_P4_194226_1608	NW_004521982.1	Scaffold10131	1608	CC	TT	1947069901
SNP_P4_194227_351	NW_004521983.1	Scaffold10134	351	GG	CC	1947069903
SNP_P4_194228_1499	NW_004521983.1	Scaffold10134	1499	TT	GG	1947069905
SNP_P4_194229_1994	NW_004521983.1	Scaffold10134	1994	CC	TT	1947069907
SNP_P4_194230_2089	NW_004521983.1	Scaffold10134	2089	TT	AA	1947069909
SNP_P4_194231_2145	NW_004521983.1	Scaffold10134	2145	TT	CC	1947069911
SNP_P4_194232_2173	NW_004521983.1	Scaffold10134	2173	CC	GG	1947069913
SNP_P4_194233_2183	NW_004521983.1	Scaffold10134	2183	TT	AA	1947069915
SNP_P4_194234_2196	NW_004521983.1	Scaffold10134	2196	TT	GG	1947069917
SNP_P4_194235_2212	NW_004521983.1	Scaffold10134	2212	AA	GG	1947069919
SNP_P4_194236_1065	NW_004521984.1	Scaffold10136	1065	GG	TT	1947069921
SNP_P4_194238_709	NW_004521988.1	Scaffold10152	709	GG	AA	1947069923
SNP_P4_194239_781	NW_004521988.1	Scaffold10152	781	GG	AA	1947069925
SNP_P4_194240_832	NW_004521988.1	Scaffold10152	832	GG	TT	1947069927
SNP_P4_194241_1084	NW_004521988.1	Scaffold10152	1084	AA	GG	1947069929
SNP_P4_194242_475	NW_004521989.1	Scaffold10154	475	CC	AA	1947069931
SNP_P4_194243_481	NW_004521989.1	Scaffold10154	481	CC	AA	1947069933
SNP_P4_194244_497	NW_004521989.1	Scaffold10154	497	TT	AA	1947069935
SNP_P4_194245_507	NW_004521989.1	Scaffold10154	507	AA	GG	1947069937
SNP_P4_194246_530	NW_004521989.1	Scaffold10154	530	TT	AA	1947069939
SNP_P4_194247_543	NW_004521989.1	Scaffold10154	543	GG	AA	1947069941
SNP_P4_194248_576	NW_004521989.1	Scaffold10154	576	TT	AA	1947069943
SNP_P4_194249_577	NW_004521989.1	Scaffold10154	577	GG	TT	1947069945
SNP_P4_194250_640	NW_004521989.1	Scaffold10154	640	CC	AA	1947069947
SNP_P4_194251_790	NW_004521989.1	Scaffold10154	790	CC	TT	1947069950
SNP_P4_194253_898	NW_004521989.1	Scaffold10154	898	TT	AA	1947069952
SNP_P4_194254_922	NW_004521989.1	Scaffold10154	922	TT	CC	1947069954
SNP_P4_194255_928	NW_004521989.1	Scaffold10154	928	GG	AA	1947069956
SNP_P4_194256_948	NW_004521989.1	Scaffold10154	948	AA	GG	1947069958
SNP_P4_194257_971	NW_004521989.1	Scaffold10154	971	TT	CC	1947069960

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
SNP_P4_194258_980	NW_004521989.1	Scaffold10154	980	CC	TT	1947069962
SNP_P4_194259_982	NW_004521989.1	Scaffold10154	982	AA	CC	1947069964
SNP_P4_194260_1001	NW_004521989.1	Scaffold10154	1001	CC	TT	1947069966
SNP_P4_194261_1008	NW_004521989.1	Scaffold10154	1008	AA	GG	1947069968
SNP_P4_194262_1643	NW_004521991.1	Scaffold10158	1643	AA	GG	1947069970
SNP_P4_194263_1948	NW_004521991.1	Scaffold10158	1948	CC	TT	1947069972
SNP_P4_194264_1982	NW_004521991.1	Scaffold10158	1982	TT	AA	1947069974
SNP_P4_194265_2030	NW_004521991.1	Scaffold10158	2030	CC	TT	1947069976
SNP_P4_194266_16344	NW_004521991.1	Scaffold10158	16344	AA	GG	1947069978
SNP_P4_194267_18212	NW_004521991.1	Scaffold10158	18212	CC	GG	1947069980
SNP_P4_194268_337	NW_004521994.1	Scaffold10180	337	TT	AA	1947069982
SNP_P4_194270_1068	NW_004521994.1	Scaffold10180	1068	AA	TT	1947069984
SNP_P4_194271_1086	NW_004521994.1	Scaffold10180	1086	TT	AA	1947069986
SNP_P4_194272_1283	NW_004521994.1	Scaffold10180	1283	CC	TT	1947069988
SNP_P4_194273_1315	NW_004521994.1	Scaffold10180	1315	GG	AA	1947069990
SNP_P4_194274_1059	NW_004521997.1	Scaffold10186	1059	TT	CC	1947069992
SNP_P4_194275_1543	NW_004521997.1	Scaffold10186	1543	TT	AA	1947069994
SNP_P4_194276_1552	NW_004521997.1	Scaffold10186	1552	TT	CC	1947069996
SNP_P4_194277_1606	NW_004521997.1	Scaffold10186	1606	TT	CC	1947069998
SNP_P4_194278_1616	NW_004521997.1	Scaffold10186	1616	TT	CC	1947070000
SNP_P4_194279_64	NW_004521998.1	Scaffold10196	64	CC	TT	1947070002
SNP_P4_194280_104	NW_004521998.1	Scaffold10196	104	AA	TT	1947070004
SNP_P4_194281_497	NW_004521998.1	Scaffold10196	497	GG	TT	1947070006
SNP_P4_194282_1056	NW_004521998.1	Scaffold10196	1056	GG	AA	1947070008
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SNP_P4_194285_1329	NW_004521998.1	Scaffold10196	1329	GG	AA	1947070014
SNP_P4_194286_1345	NW_004521998.1	Scaffold10196	1345	CC	GG	1947070016
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SNP_P4_194289_1614	NW_004522004.1	Scaffold10218	1614	TT	AA	1947070022
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SNP_P4_194291_3273	NW_004522006.1	Scaffold10227	3273	GG	AA	1947070026
SNP_P4_194292_6034	NW_004522006.1	Scaffold10227	6034	GG	AA	1947070028
SNP_P4_194294_6941	NW_004522006.1	Scaffold10227	6941	TT	CC	1947070030
SNP_P4_194295_9391	NW_004522006.1	Scaffold10227	9391	TT	AA	1947070032
SNP_P4_194296_10184	NW_004522006.1	Scaffold10227	10184	GG	AA	1947070034
SNP_P4_194297_11246	NW_004522006.1	Scaffold10227	11246	AA	GG	1947070036
SNP_P4_194298_11267	NW_004522006.1	Scaffold10227	11267	AA	TT	1947070038
SNP_P4_194299_11324	NW_004522006.1	Scaffold10227	11324	AA	GG	1947070040
SNP_P4_194300_11351	NW_004522006.1	Scaffold10227	11351	CC	TT	1947070042
SNP_P4_194301_11418	NW_004522006.1	Scaffold10227	11418	GG	AA	1947070044

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_194303_11473	NW_004522006.1	Scaffold10227	11473	AA	TT	1947070048
SNP_P4_194304_11483	NW_004522006.1	Scaffold10227	11483	GG	TT	1947070050
SNP_P4_194305_11503	NW_004522006.1	Scaffold10227	11503	GG	TT	1947070052
SNP_P4_194306_11540	NW_004522006.1	Scaffold10227	11540	CC	AA	1947070054
SNP_P4_194307_11649	NW_004522006.1	Scaffold10227	11649	AA	GG	1947070056
SNP_P4_194308_12048	NW_004522006.1	Scaffold10227	12048	CC	TT	1947070058
SNP_P4_194309_12055	NW_004522006.1	Scaffold10227	12055	GG	AA	1947070060
SNP_P4_194310_12108	NW_004522006.1	Scaffold10227	12108	TT	CC	1947070062
SNP_P4_194312_12130	NW_004522006.1	Scaffold10227	12130	GG	AA	1947070064
SNP_P4_194313_142	NW_004522007.1	Scaffold10231	142	CC	TT	1947070066
SNP_P4_194314_259	NW_004522007.1	Scaffold10231	259	CC	TT	1947070068
SNP_P4_194315_417	NW_004522007.1	Scaffold10231	417	GG	AA	1947070070
SNP_P4_194317_672	NW_004522007.1	Scaffold10231	672	CC	TT	1947070072
SNP_P4_194318_56	NW_004522008.1	Scaffold10232	56	TT	GG	1947070074
SNP_P4_194319_64	NW_004522008.1	Scaffold10232	64	AA	GG	1947070076
SNP_P4_194320_70	NW_004522008.1	Scaffold10232	70	TT	CC	1947070078
SNP_P4_194321_92	NW_004522008.1	Scaffold10232	92	CC	TT	1947070080
SNP_P4_194322_101	NW_004522008.1	Scaffold10232	101	AA	CC	1947070082
SNP_P4_194323_140	NW_004522008.1	Scaffold10232	140	AA	CC	1947070084
SNP_P4_194324_142	NW_004522008.1	Scaffold10232	142	TT	AA	1947070086
SNP_P4_194325_151	NW_004522008.1	Scaffold10232	151	GG	AA	1947070088
SNP_P4_194326_343	NW_004522008.1	Scaffold10232	343	CC	AA	1947070091
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SNP_P4_194332_725	NW_004522008.1	Scaffold10232	725	GG	TT	1947070103
SNP_P4_194334_884	NW_004522008.1	Scaffold10232	884	TT	GG	1947070105
SNP_P4_194335_887	NW_004522008.1	Scaffold10232	887	AA	CC	1947070107
SNP_P4_194336_944	NW_004522008.1	Scaffold10232	944	TT	GG	1947070109
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SNP_P4_194338_1012	NW_004522009.1	Scaffold10238	1012	GG	AA	1947070113
SNP_P4_194339_1145	NW_004522009.1	Scaffold10238	1145	AA	GG	1947070115
SNP_P4_194340_1177	NW_004522009.1	Scaffold10238	1177	CC	TT	1947070117
SNP_P4_194341_1350	NW_004522009.1	Scaffold10238	1350	TT	CC	1947070119
SNP_P4_194342_1394	NW_004522009.1	Scaffold10238	1394	GG	AA	1947070121
SNP_P4_194343_1411	NW_004522009.1	Scaffold10238	1411	TT	CC	1947070123
SNP_P4_194344_1412	NW_004522009.1	Scaffold10238	1412	AA	CC	1947070125
SNP_P4_194345_1436	NW_004522009.1	Scaffold10238	1436	AA	TT	1947070127
SNP_P4_194346_1437	NW_004522009.1	Scaffold10238	1437	TT	AA	1947070129

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_194348_1464	NW_004522009.1	Scaffold10238	1464	TT	CC	1947070133
SNP_P4_194350_944	NW_004522013.1	Scaffold10244	944	GG	AA	1947070135
SNP_P4_194351_1445	NW_004522013.1	Scaffold10244	1445	TT	CC	1947070137
SNP_P4_194352_1713	NW_004522013.1	Scaffold10244	1713	AA	TT	1947070139
SNP_P4_194353_1744	NW_004522013.1	Scaffold10244	1744	GG	TT	1947070142
SNP_P4_194354_1770	NW_004522013.1	Scaffold10244	1770	TT	GG	1947070144
SNP_P4_194355_1851	NW_004522013.1	Scaffold10244	1851	GG	AA	1947070146
SNP_P4_194356_145	NW_004522014.1	Scaffold10246	145	GG	AA	1947070148
SNP_P4_194357_407	NW_004522021.1	Scaffold10285	407	AA	GG	1947070150
SNP_P4_194358_784	NW_004522021.1	Scaffold10285	784	CC	TT	1947070152
SNP_P4_194359_888	NW_004522021.1	Scaffold10285	888	TT	AA	1947070154
SNP_P4_194361_64	NW_004522022.1	Scaffold10299	64	AA	GG	1947070156
SNP_P4_194362_18807	NW_004522022.1	Scaffold10299	18807	AA	TT	1947070158
SNP_P4_194363_18821	NW_004522022.1	Scaffold10299	18821	TT	CC	1947070160
SNP_P4_194364_18849	NW_004522022.1	Scaffold10299	18849	TT	AA	1947070162
SNP_P4_194365_18869	NW_004522022.1	Scaffold10299	18869	AA	CC	1947070164
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SNP_P4_194367_18983	NW_004522022.1	Scaffold10299	18983	TT	CC	1947070168
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SNP_P4_194369_19166	NW_004522022.1	Scaffold10299	19166	CC	TT	1947070172
SNP_P4_194370_19196	NW_004522022.1	Scaffold10299	19196	GG	TT	1947070174
SNP_P4_194371_19334	NW_004522022.1	Scaffold10299	19334	CC	TT	1947070177
SNP_P4_194372_19373	NW_004522022.1	Scaffold10299	19373	TT	AA	1947070179
SNP_P4_194373_19416	NW_004522022.1	Scaffold10299	19416	GG	CC	1947070181
SNP_P4_194374_666	NW_004522023.1	Scaffold10304	666	TT	GG	1947070183
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SNP_P4_194376_1006	NW_004522023.1	Scaffold10304	1006	TT	CC	1947070187
SNP_P4_194377_409	NW_004522024.1	Scaffold10305	409	AA	GG	1947070189
SNP_P4_194378_527	NW_004522024.1	Scaffold10305	527	CC	TT	1947070191
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SNP_P4_194380_1522	NW_004522025.1	Scaffold10307	1522	CC	GG	1947070195
SNP_P4_194381_1555	NW_004522025.1	Scaffold10307	1555	GG	AA	1947070197
SNP_P4_194382_1569	NW_004522025.1	Scaffold10307	1569	CC	GG	1947070199
SNP_P4_194383_1664	NW_004522025.1	Scaffold10307	1664	GG	AA	1947070201
SNP_P4_194384_659	NW_004522029.1	Scaffold10320	659	CC	TT	1947070202
SNP_P4_194385_1009	NW_004522029.1	Scaffold10320	1009	TT	GG	1947070204
SNP_P4_194386_764	NW_004522031.1	Scaffold10324	764	CC	TT	1947070206
SNP_P4_194387_11822	NW_004522032.1	Scaffold10330	11822	AA	TT	1947070208
SNP_P4_194388_11825	NW_004522032.1	Scaffold10330	11825	TT	CC	1947070210
SNP_P4_194389_647	NW_004522035.1	Scaffold10345	647	CC	GG	1947070212
SNP_P4_194390_649	NW_004522035.1	Scaffold10345	649	GG	TT	1947070214

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_194393_91	NW_004522037.1	Scaffold10354	91	TT	AA	1947070220
SNP_P4_194394_299	NW_004522037.1	Scaffold10354	299	AA	GG	1947070222
SNP_P4_194395_317	NW_004522037.1	Scaffold10354	317	GG	CC	1947070224
SNP_P4_194396_334	NW_004522037.1	Scaffold10354	334	TT	AA	1947070226
SNP_P4_194399_514	NW_004522037.1	Scaffold10354	514	TT	CC	1947070228
SNP_P4_194400_526	NW_004522037.1	Scaffold10354	526	TT	GG	1947070230
SNP_P4_194401_535	NW_004522037.1	Scaffold10354	535	CC	TT	1947070239
SNP_P4_194402_587	NW_004522037.1	Scaffold10354	587	TT	AA	1947070241
SNP_P4_194403_347	NW_004522039.1	Scaffold10356	347	CC	AA	1947070243
SNP_P4_194404_348	NW_004522039.1	Scaffold10356	348	GG	TT	1947070245
SNP_P4_194405_406	NW_004522039.1	Scaffold10356	406	CC	AA	1947070247
SNP_P4_194406_439	NW_004522039.1	Scaffold10356	439	GG	AA	1947070249
SNP_P4_194407_504	NW_004522039.1	Scaffold10356	504	CC	TT	1947070251
SNP_P4_194408_575	NW_004522039.1	Scaffold10356	575	CC	TT	1947070253
SNP_P4_194409_623	NW_004522039.1	Scaffold10356	623	TT	GG	1947070255
SNP_P4_194410_764	NW_004522039.1	Scaffold10356	764	CC	AA	1947070257
SNP_P4_194411_64	NW_004522041.1	Scaffold10361	64	CC	AA	1947070259
SNP_P4_194412_181	NW_004522041.1	Scaffold10361	181	AA	TT	1947070261
SNP_P4_194413_601	NW_004522041.1	Scaffold10361	601	AA	TT	1947070262
SNP_P4_194414_630	NW_004522041.1	Scaffold10361	630	GG	CC	1947070264
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SNP_P4_194416_657	NW_004522041.1	Scaffold10361	657	AA	GG	1947070268
SNP_P4_194417_708	NW_004522041.1	Scaffold10361	708	GG	AA	1947070270
SNP_P4_194418_757	NW_004522041.1	Scaffold10361	757	AA	TT	1947070272
SNP_P4_194419_767	NW_004522041.1	Scaffold10361	767	CC	AA	1947070274
SNP_P4_194421_932	NW_004522041.1	Scaffold10361	932	TT	AA	1947070276
SNP_P4_194422_947	NW_004522041.1	Scaffold10361	947	CC	GG	1947070278
SNP_P4_194423_949	NW_004522041.1	Scaffold10361	949	AA	GG	1947070280
SNP_P4_194424_960	NW_004522041.1	Scaffold10361	960	GG	AA	1947070282
SNP_P4_194425_971	NW_004522041.1	Scaffold10361	971	GG	TT	1947070284
SNP_P4_194426_975	NW_004522041.1	Scaffold10361	975	TT	CC	1947070286
SNP_P4_194427_1005	NW_004522041.1	Scaffold10361	1005	CC	AA	1947070288
SNP_P4_194428_1013	NW_004522041.1	Scaffold10361	1013	TT	AA	1947070290
SNP_P4_194429_1014	NW_004522041.1	Scaffold10361	1014	CC	TT	1947070292
SNP_P4_194430_1015	NW_004522041.1	Scaffold10361	1015	AA	TT	1947070294
SNP_P4_194431_1042	NW_004522041.1	Scaffold10361	1042	TT	AA	1947070296
SNP_P4_194432_1049	NW_004522041.1	Scaffold10361	1049	GG	CC	1947070298
SNP_P4_194433_1072	NW_004522041.1	Scaffold10361	1072	CC	TT	1947070300
SNP_P4_194434_1116	NW_004522041.1	Scaffold10361	1116	GG	CC	1947070302
SNP_P4_194435_1117	NW_004522041.1	Scaffold10361	1117	AA	TT	1947070304

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SNP_P4_194438_64	NW_004522046.1	Scaffold10378	64	TT	CC	1947070310
SNP_P4_194439_123	NW_004522046.1	Scaffold10378	123	AA	GG	1947070312
SNP_P4_194440_190	NW_004522046.1	Scaffold10378	190	TT	CC	1947070314
SNP_P4_194441_272	NW_004522046.1	Scaffold10378	272	AA	CC	1947070316
SNP_P4_194442_292	NW_004522046.1	Scaffold10378	292	AA	CC	1947070318
SNP_P4_194443_303	NW_004522046.1	Scaffold10378	303	GG	TT	1947070320
SNP_P4_194444_345	NW_004522046.1	Scaffold10378	345	TT	CC	1947070322
SNP_P4_194445_592	NW_004522046.1	Scaffold10378	592	AA	CC	1947070324
SNP_P4_194446_680	NW_004522046.1	Scaffold10378	680	TT	GG	1947070326
SNP_P4_194447_687	NW_004522046.1	Scaffold10378	687	CC	TT	1947070328
SNP_P4_194448_741	NW_004522046.1	Scaffold10378	741	CC	AA	1947070330
SNP_P4_194449_771	NW_004522046.1	Scaffold10378	771	TT	CC	1947070332
SNP_P4_194450_787	NW_004522046.1	Scaffold10378	787	AA	TT	1947070334
SNP_P4_194451_788	NW_004522046.1	Scaffold10378	788	AA	CC	1947070336
SNP_P4_194452_792	NW_004522046.1	Scaffold10378	792	GG	AA	1947070338
SNP_P4_194453_822	NW_004522046.1	Scaffold10378	822	TT	CC	1947070340
SNP_P4_194454_873	NW_004522046.1	Scaffold10378	873	CC	TT	1947070342
SNP_P4_194455_1093	NW_004522046.1	Scaffold10378	1093	AA	TT	1947070344
SNP_P4_194456_1117	NW_004522046.1	Scaffold10378	1117	TT	AA	1947070345
SNP_P4_194457_1175	NW_004522046.1	Scaffold10378	1175	GG	TT	1947070347
SNP_P4_194458_588	NW_004522047.1	Scaffold10379	588	TT	CC	1947070349
SNP_P4_194459_186	NW_004522051.1	Scaffold10392	186	TT	CC	1947070351
SNP_P4_194460_346	NW_004522051.1	Scaffold10392	346	TT	AA	1947070353
SNP_P4_194463_1191	NW_004522059.1	Scaffold10415	1191	TT	CC	1947070355
SNP_P4_194464_276	NW_004522062.1	Scaffold10419	276	TT	GG	1947070357
SNP_P4_194465_284	NW_004522062.1	Scaffold10419	284	AA	GG	1947070359
SNP_P4_194466_532	NW_004522062.1	Scaffold10419	532	GG	AA	1947070361
SNP_P4_194467_550	NW_004522062.1	Scaffold10419	550	AA	GG	1947070363
SNP_P4_194468_741	NW_004522062.1	Scaffold10419	741	GG	AA	1947070365
SNP_P4_194470_8993	NW_004522062.1	Scaffold10419	8993	AA	CC	1947070367
SNP_P4_194471_29892	NW_004522063.1	Scaffold10420	29892	CC	TT	1947070369
SNP_P4_194472_38344	NW_004522063.1	Scaffold10420	38344	TT	AA	1947070371
SNP_P4_194473_38390	NW_004522063.1	Scaffold10420	38390	AA	GG	1947070373
SNP_P4_194478_615	NW_004522120.1	C11048340	615	AA	GG	1947070375
SNP_P4_194479_659	NW_004522120.1	C11048340	659	CC	GG	1947070377
SNP_P4_194480_664	NW_004522120.1	C11048340	664	TT	CC	1947070379
SNP_P4_194481_665	NW_004522120.1	C11048340	665	GG	AA	1947070381
SNP_P4_194482_683	NW_004522120.1	C11048340	683	GG	AA	1947070383
SNP_P4_194483_790	NW_004522120.1	C11048340	790	TT	CC	1947070385
SNP_P4_194484_900	NW_004522120.1	C11048340	900	CC	AA	1947070387

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_194486_934	NW_004522120.1	C11048340	934	CC	TT	1947070391
SNP_P4_194487_936	NW_004522120.1	C11048340	936	AA	GG	1947070393
SNP_P4_194488_382	NW_004522122.1	C11048522	382	AA	GG	1947070395
SNP_P4_194489_467	NW_004522132.1	C11049822	467	AA	GG	1947070397
SNP_P4_194494_784	NW_004522172.1	C11054110	784	CC	AA	1947070399
SNP_P4_194499_255	NW_004522212.1	C11058436	255	CC	TT	1947070401
SNP_P4_194500_846	NW_004522221.1	C11059834	846	CC	TT	1947070403
SNP_P4_194501_875	NW_004522221.1	C11059834	875	TT	CC	1947070405
SNP_P4_194502_937	NW_004522221.1	C11059834	937	CC	GG	1947070407
SNP_P4_194503_1083	NW_004522221.1	C11059834	1083	TT	GG	1947070409
SNP_P4_194504_1102	NW_004522221.1	C11059834	1102	GG	CC	1947070411
SNP_P4_194505_1111	NW_004522221.1	C11059834	1111	AA	GG	1947070413
SNP_P4_194511_482	NW_004522265.1	C11064028	482	GG	CC	1947070415
SNP_P4_194516_1099	NW_004522278.1	C11065790	1099	GG	AA	1947070417
SNP_P4_194517_873	NW_004522293.1	C11067886	873	TT	CC	1947070419
SNP_P4_194526_648	NW_004522392.1	C11079732	648	GG	AA	1947070421
SNP_P4_194529_430	NW_004522394.1	C11079828	430	CC	AA	1947070423
SNP_P4_194534_416	NW_004522406.1	C11082608	416	AA	TT	1947070425
SNP_P4_194535_697	NW_004522421.1	C11085144	697	TT	GG	1947070427
SNP_P4_194536_100	NW_004522424.1	C11085654	100	CC	TT	1947070429
SNP_P4_194537_1344	NW_004522431.1	C11086502	1344	CC	AA	1947070431
SNP_P4_194538_175	NW_004522436.1	C11087430	175	GG	AA	1947070433
SNP_P4_194539_1030	NW_004522436.1	C11087430	1030	CC	TT	1947070435
SNP_P4_194540_1234	NW_004522454.1	C11092796	1234	AA	GG	1947070437
SNP_P4_194543_322	NW_004522501.1	C11102242	322	CC	AA	1947070439
SNP_P4_194544_1784	NW_004522537.1	C11109044	1784	TT	CC	1947070442
SNP_P4_194545_1712	NW_004522543.1	C11110620	1712	GG	AA	1947070444
SNP_P4_194546_388	NW_004522574.1	C11119398	388	AA	CC	1947070446
SNP_P4_194547_389	NW_004522574.1	C11119398	389	AA	GG	1947070448
SNP_P4_194548_466	NW_004522574.1	C11119398	466	GG	CC	1947070450
SNP_P4_194551_1119	NW_004522574.1	C11119398	1119	GG	TT	1947070452
SNP_P4_194553_1255	NW_004522574.1	C11119398	1255	GG	TT	1947070454
SNP_P4_194554_1487	NW_004522574.1	C11119398	1487	AA	CC	1947070456
SNP_P4_194555_1488	NW_004522574.1	C11119398	1488	TT	CC	1947070458
SNP_P4_194556_1571	NW_004522574.1	C11119398	1571	GG	TT	1947070460
SNP_P4_194557_2414	NW_004522574.1	C11119398	2414	CC	TT	1947070462
SNP_P4_194558_2428	NW_004522574.1	C11119398	2428	TT	CC	1947070464
SNP_P4_194559_769	NW_004522586.1	C11122410	769	CC	GG	1947070466
SNP_P4_194560_1977	NW_004522586.1	C11122410	1977	AA	GG	1947070468
SNP_P4_194562_2028	NW_004522586.1	C11122410	2028	AA	TT	1947070470
SNP_P4_194563_2239	NW_004522586.1	C11122410	2239	AA	GG	1947070472

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_194565_2265	NW_004522586.1	C11122410	2265	CC	TT	1947070476
SNP_P4_194566_2513	NW_004522586.1	C11122410	2513	AA	TT	1947070478
SNP_P4_194567_2834	NW_004522607.1	C11129662	2834	CC	TT	1947070480
SNP_P4_194568_2906	NW_004522607.1	C11129662	2906	GG	AA	1947070482
SNP_P4_194569_2911	NW_004522607.1	C11129662	2911	AA	GG	1947070484
SNP_P4_194570_2945	NW_004522607.1	C11129662	2945	AA	GG	1947070486
SNP_P4_194571_3089	NW_004522607.1	C11129662	3089	CC	TT	1947070488
SNP_P4_194572_3110	NW_004522607.1	C11129662	3110	CC	TT	1947070490
SNP_P4_194573_3118	NW_004522607.1	C11129662	3118	TT	CC	1947070492
SNP_P4_194574_3147	NW_004522607.1	C11129662	3147	TT	AA	1947070494
SNP_P4_194575_3148	NW_004522607.1	C11129662	3148	TT	AA	1947070496
SNP_P4_194576_3149	NW_004522607.1	C11129662	3149	CC	AA	1947070498
SNP_P4_194577_3150	NW_004522607.1	C11129662	3150	CC	TT	1947070500
SNP_P4_194578_3151	NW_004522607.1	C11129662	3151	AA	TT	1947070502
SNP_P4_194579_3273	NW_004522607.1	C11129662	3273	GG	AA	1947070504
SNP_P4_194581_4451	NW_004522656.1	C11145058	4451	AA	GG	1947070506
SNP_P4_194583_1747	NW_004522686.1	C11154862	1747	TT	AA	1947070508
SNP_P4_194584_1820	NW_004522686.1	C11154862	1820	AA	GG	1947070511
SNP_P4_194585_1842	NW_004522686.1	C11154862	1842	CC	AA	1947070513
SNP_P4_194586_1843	NW_004522686.1	C11154862	1843	GG	AA	1947070515
SNP_P4_194587_1849	NW_004522686.1	C11154862	1849	GG	TT	1947070517
SNP_P4_194588_1857	NW_004522686.1	C11154862	1857	TT	CC	1947070519
SNP_P4_194589_1890	NW_004522686.1	C11154862	1890	AA	TT	1947070521
SNP_P4_194591_1984	NW_004522686.1	C11154862	1984	GG	AA	1947070523
SNP_P4_194592_2347	NW_004522686.1	C11154862	2347	GG	AA	1947070525
SNP_P4_194593_2392	NW_004522686.1	C11154862	2392	GG	AA	1947070526
SNP_P4_194594_2393	NW_004522686.1	C11154862	2393	TT	CC	1947070528
SNP_P4_194595_2585	NW_004522686.1	C11154862	2585	TT	CC	1947070530
SNP_P4_194596_2596	NW_004522686.1	C11154862	2596	TT	CC	1947070532
SNP_P4_194598_4617	NW_004522686.1	C11154862	4617	TT	CC	1947070534
SNP_P4_194600_2891	NW_004522689.1	C11155258	2891	CC	TT	1947070537
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SNP_P4_194602_735	NW_004522707.1	C11161624	735	GG	AA	1947070541
SNP_P4_194603_2683	NW_004522707.1	C11161624	2683	CC	TT	1947070543
SNP_P4_194604_6096	NW_004522709.1	C11161892	6096	GG	AA	1947070545
SNP_P4_194605_1616	NW_004522714.1	C11163350	1616	AA	GG	1947070547
SNP_P4_194606_3242	NW_004522730.1	C11169592	3242	TT	CC	1947070549
SNP_P4_194608_8350	NW_004522736.1	C11174756	8350	GG	TT	1947070551
SNP_P4_194610_9039	NW_004522738.1	C11176652	9039	AA	CC	1947070553
SNP_P4_194611_9765	NW_004522738.1	C11176652	9765	GG	CC	1947070555
SNP_P4_194612_9788	NW_004522738.1	C11176652	9788	CC	TT	1947070557

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_194614_7439	NW_004522743.1	C11177592	7439	GG	AA	1947070561
SNP_P4_194615_7679	NW_004522743.1	C11177592	7679	TT	AA	1947070563
SNP_P4_194617_7696	NW_004522743.1	C11177592	7696	TT	CC	1947070565
SNP_P4_194618_7861	NW_004522743.1	C11177592	7861	AA	CC	1947070567
SNP_P4_194619_7893	NW_004522743.1	C11177592	7893	CC	TT	1947070569
SNP_P4_194620_7910	NW_004522743.1	C11177592	7910	CC	AA	1947070571
SNP_P4_194621_7938	NW_004522743.1	C11177592	7938	TT	GG	1947070573
SNP_P4_194622_9229	NW_004522743.1	C11177592	9229	AA	TT	1947070575
SNP_P4_194623_9230	NW_004522743.1	C11177592	9230	TT	GG	1947070577
SNP_P4_194624_10239	NW_004522743.1	C11177592	10239	TT	CC	1947070579
SNP_P4_194625_10261	NW_004522743.1	C11177592	10261	GG	CC	1947070581
SNP_P4_194626_10787	NW_004522743.1	C11177592	10787	CC	AA	1947070583
SNP_P4_194627_11908	NW_004522743.1	C11177592	11908	GG	TT	1947070585
SNP_P4_194628_12250	NW_004522743.1	C11177592	12250	TT	CC	1947070587
SNP_P4_194630_12638	NW_004522743.1	C11177592	12638	GG	TT	1947070589
SNP_P4_194631_12843	NW_004522743.1	C11177592	12843	GG	AA	1947070591
SNP_P4_194632_2927	NW_004522745.1	C11178116	2927	CC	AA	1947070593
SNP_P4_194635_750	NW_004522746.1	C11178328	750	CC	AA	1947070595
SNP_P4_194636_807	NW_004522746.1	C11178328	807	TT	GG	1947070597
SNP_P4_194637_840	NW_004522746.1	C11178328	840	GG	AA	1947070599
SNP_P4_194638_1215	NW_004522746.1	C11178328	1215	GG	TT	1947070602
SNP_P4_194639_1771	NW_004522746.1	C11178328	1771	CC	AA	1947070604
SNP_P4_194640_2960	NW_004522746.1	C11178328	2960	TT	AA	1947070606
SNP_P4_194641_3266	NW_004522746.1	C11178328	3266	GG	CC	1947070608
SNP_P4_194642_6389	NW_004522746.1	C11178328	6389	AA	TT	1947070610
SNP_P4_194643_6460	NW_004522746.1	C11178328	6460	TT	CC	1947070612
SNP_P4_194644_7768	NW_004522746.1	C11178328	7768	CC	TT	1947070614
SNP_P4_194646_14359	NW_004522746.1	C11178328	14359	CC	AA	1947070616
SNP_P4_194648_1424	NW_004522749.1	C11178574	1424	TT	CC	1947070618
SNP_P4_194650_9680	NW_004522751.1	C11181782	9680	GG	AA	1947070620
SNP_P4_194651_9712	NW_004522751.1	C11181782	9712	TT	CC	1947070622
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SNP_P4_194653_10900	NW_004522751.1	C11181782	10900	CC	TT	1947070626
SNP_P4_194654_10911	NW_004522751.1	C11181782	10911	AA	CC	1947070628
SNP_P4_194655_10913	NW_004522751.1	C11181782	10913	AA	GG	1947070630
SNP_P4_194656_10927	NW_004522751.1	C11181782	10927	TT	CC	1947070633
SNP_P4_194657_11037	NW_004522751.1	C11181782	11037	TT	GG	1947070635
SNP_P4_194658_11039	NW_004522751.1	C11181782	11039	AA	GG	1947070637
SNP_P4_194659_11110	NW_004522751.1	C11181782	11110	TT	AA	1947070639
SNP_P4_194661_11380	NW_004522751.1	C11181782	11380	CC	TT	1947070641
SNP_P4_194662_11392	NW_004522751.1	C11181782	11392	CC	TT	1947070643

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(ILWC46 & LPNB)	NCBI SNPdb Accession IDs
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SNP_P4_194664_11425	NW_004522751.1	C11181782	11425	AA	GG	1947070647
SNP_P4_194665_12578	NW_004522751.1	C11181782	12578	GG	AA	1947070649
SNP_P4_194666_13020	NW_004522751.1	C11181782	13020	TT	CC	1947070651
SNP_P4_194667_13662	NW_004522751.1	C11181782	13662	AA	GG	1947070653
SNP_P4_194668_13706	NW_004522751.1	C11181782	13706	CC	TT	1947070655
SNP_P4_194669_13765	NW_004522751.1	C11181782	13765	CC	TT	1947070657
SNP_P4_194670_13776	NW_004522751.1	C11181782	13776	GG	TT	1947070659
SNP_P4_194671_14076	NW_004522751.1	C11181782	14076	GG	TT	1947070661
SNP_P4_194672_14424	NW_004522751.1	C11181782	14424	TT	CC	1947070663
SNP_P4_194673_14464	NW_004522751.1	C11181782	14464	CC	AA	1947070665
SNP_P4_194674_15500	NW_004522751.1	C11181782	15500	AA	GG	1947070667
SNP_P4_194675_15537	NW_004522751.1	C11181782	15537	GG	AA	1947070669
SNP_P4_194676_15604	NW_004522751.1	C11181782	15604	TT	CC	1947070671
SNP_P4_194677_16345	NW_004522751.1	C11181782	16345	AA	CC	1947070673
SNP_P4_194678_16463	NW_004522751.1	C11181782	16463	AA	GG	1947070675
SNP_P4_194679_17177	NW_004522751.1	C11181782	17177	TT	CC	1947070677
SNP_P4_194680_17182	NW_004522751.1	C11181782	17182	CC	TT	1947070680
SNP_P4_194681_17195	NW_004522751.1	C11181782	17195	CC	TT	1947070682
SNP_P4_194682_17199	NW_004522751.1	C11181782	17199	GG	AA	1947070684
SNP_P4_194683_17237	NW_004522751.1	C11181782	17237	GG	AA	1947070686
SNP_P4_194684_19025	NW_004522751.1	C11181782	19025	AA	GG	1947070688
SNP_P4_194685_19040	NW_004522751.1	C11181782	19040	AA	GG	1947070690
SNP_P4_194686_19438	NW_004522751.1	C11181782	19438	CC	TT	1947070692
SNP_P4_194687_19590	NW_004522751.1	C11181782	19590	AA	TT	1947070694
SNP_P4_194688_19611	NW_004522751.1	C11181782	19611	CC	TT	1947070696
SNP_P4_194689_20966	NW_004522751.1	C11181782	20966	CC	GG	1947070698
SNP_P4_194693_46379	NC_011163.1	Pltd	46379	AA	GG	1947070700
SNP_P4_194694_50492	NC_011163.1	Pltd	50492	TT	CC	1947070701